STATE OF CONNECTICUT

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DEPARTMENT OF CONSTRUCTION SERVICES
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ACTING COMMISSIONER

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MARY A. PAPAZIAN
PRESIDENT

SCSU NEW ACADEMIC LABORATORY BUILDING

SOUTHERN CONNECTICUT STATE UNIVERSITY

485 FITCH STREET
NEW HAVEN, CONNECTICUT

PROJECT NO. BI-RS-283

BID DOCUMENTS
NOVEMBER 21, 2012

VOLUME 1 OF 2

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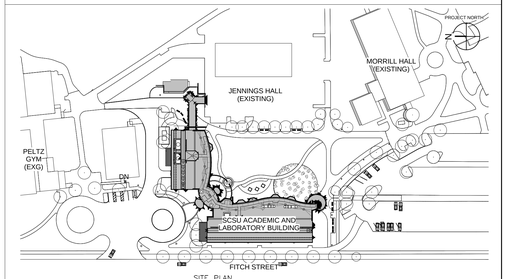

SITE PLAN

LOCATION PLAN

APPROVALS

PUBLIC WORKS DATE

AGENCY DATE

GENERAL NOTES:

1. DIMENSIONS SHOWN ON ARCHITECTURAL FLOOR PLANS AND ENLARGED PLAN DETAILS ARE TO FACE OF STUD, TO FACE OF MASONRY OR TO CENTER LINE OF COLUMN UNLESS OTHERWISE NOTED.
2. DO NOT SCALE OR MEASURE THESE DRAWINGS. REFER TO WRITTEN DIMENSIONS, NOTES AND DETAILS ON THE DRAWINGS TO LOCATE WALLS, CASEWORK AND EQUIPMENT. VERIFY THE FIGURES, DIMENSIONS AND DESIGN INTENTION SHOWN ON THE DRAWINGS BEFORE BEGINNING LAYOUT OF THE WORK, AND REPORT ANY ERRORS, INACCURACIES, MISSING DIMENSIONAL REQUIREMENTS OR CONFLICTS TO THE ARCHITECT IN WRITING BEFORE BEGINNING THE WORK. VERIFY THE PARTITION LAYOUT SHOWN IN THE FIELD WITH THE ARCHITECT BEFORE BEGINNING PARTITION WORK.
3. THE CONTRACTOR SHALL COORDINATE INSTALLATION DIMENSIONS OF FRAMED OPENINGS FOR ALL BUILT-IN ITEMS, INCLUDING EQUIPMENT, FIXTURES, SIGNAGE AND FURNITURE BASED ON THE ACTUAL ITEMS SELECTED BY THE ARCHITECT AND ENGINEERS.
4. REFER TO ROOM FINISH SCHEDULE FOR FINISH MATERIAL AND SUBSTRATE.
5. REFER TO CODE PLANS AND PARTITION LEGEND FOR WALL RATINGS TO BE PROVIDED. ALL PENETRATIONS THROUGH RATED WALLS SHALL HAVE A RATING EQUAL TO THAT OF THE WALL.
6. CONSTRUCTION MANAGER TO PROVIDE ALIGNMENTS SHOWN IN THE DRAWINGS. IF THE DIMENSIONS SHOWN CONFLICT WITH GRAPHIC ALIGNMENTS AND DESIGN INTENT DEMONSTRATED IN THE DRAWINGS, REVIEW THE DIMENSIONS WITH ARCHITECT PRIOR TO PROCEEDING.
7. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, LAWS AND STATUTES AS REQUIRED. REFER TO SPECICATIONS SECTION 01 42 20 REFERENCE STANDARDS AND DEFINITIONS.
8. STRICTLY ADHERE TO MANUFACTURER'S PRINTED INSTRUCTIONS
9. VERIFY ALL CHANGES TO THE WORK IN WRITING WITH THE ARCHITECT AND OWNER BEFORE BEGINNING RELATED WORK.
10. PROTECT EXISTING SPECIMEN TREES AND SHRUBS TO REMAIN. DISTURB ONLY THOSE AREAS OF THE SITE AFFECTED BY NEW CONSTRUCTION. UNLESS NOTED OTHERWISE, PROTECT ALL OTHER AREAS.
11. PROVED POSITIVE DRAINAGE AWAY FROM THE BUILDING PERIMETER MINIMUM 1/4" PER FOOT.
12. EXACT LOCATIONS AND MOUNTING HEIGHTS OF SWITCHES, THERMOSTATS, BOXES, PLATES, RECEPTACLES, ETC. SHALL BE LOCATED PER THOSE DESIGNATED ON A701. IT IS THE INTENTION OF THE ARCHITECT TO GROUP, ORGANIZE AND ALIGN ALL THE ABOVE-LISTED DEVICES TO THE GREATEST EXTENT POSSIBLE. DO NOT INSTALL DEVICES IN QUESTION PRIOR TO FIELD REVIEW WITH THE ARCHITECT.
13. PITCH SLABS (AND OTHER FLOORS) TO FLOOR DRAINS, AS INDICATED ON PLANS.
14. WHERE THERE IS A CONFLICT BETWEEN THE REFLECTED CEILING PLAN AND LOCATION OF FIXTURES AND DEVICES IN MECHANICAL, ELECTRICAL AND PLUMBING DRAWING, THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN.
15. 1.BASE INFORMATION IS TAKEN FROM AVAILABLE SURVEY PLANS PREPARED BY MILONE AND MACBROOM FOR THIS PROJECT. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF NEW WORK. BVH INTEGRATED SERVICES ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE SURVEY NOR CHANGES TO THE WORK DUE TO ERROR IN THE SURVEY. 1.BASE INFORMATION IS TAKEN FROM AVAILABLE SURVEY PLANS PREPARED BY MILONE AND MACBROOM FOR THIS PROJECT. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF NEW WORK. BVH INTEGRATED SERVICES ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE SURVEY NOR CHANGES TO THE WORK DUE TO ERROR IN THE SURVEY.
16. PRIOR TO COMMENCING CONSTRUCTION NOTIFY "CALL BEFORE YOU DIG" (1-800-922-4455) FOR FIELD LOCATION AND MARKING OF SUBSURFACE UTILITIES AT LEAST 48 HOURS IN ADVANCE BUT NO MORE THAN 30 DAYS. THE CONTRACTOR SHALL ALSO OBTAIN THE SERVICES OF A QUALIFIED UNDERGROUND UTILITY LOCATION FIRM, AT NO COST TO THE OWNER, TO VERIFY LOCATIONS OF UNDERGROUND UTILITIES NOT IDENTIFIED BY "CALL BEFORE YOU DIG".
17. ALL CONSTRUCTION METHODS SHALL CONFORM TO THE DRAWINGS AND SPECIFICATIONS AND ANY REFERENCED STANDARDS SUCH AS BUT NOT LIMITED TO THE FOLLOWING:

    A.THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION (FORM 816, AS AMENDED).

    B.MATERIAL AND INSTALLATION SPECIFICATIONS OF EACH UTILITY COMPANY.

    C.SPECIFIC CITY OF NEW HAVEN REQUIREMENTS.

    D.CSUS SPECIFICATIONS AND REQUIREMENTS.

    ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND SPECIFICATIONS AND REFERENCED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
18. PROVIDE ALL NECESSARY SURVEY WORK REQUIRED FOR THE CONSTRUCTION STAKE-OUT AND PRODUCTION OF AS-BUILT PLANS. AS-BUILT PLANS SHALL SHOW LOCATION AND ELEVATION OF CONSTRUCTED STRUCTURES, EQUIPMENT, PIPING AND CONDUITS. CONTRACTOR TO PROVIDE RECORD DRAWINGS TO THE OWNER AT THE END OF THE PROJECT. REFER TO GENERAL CONDITIONS OF SPECIFICATIONS FOR REQUIREMENTS.
19. OBTAIN ALL NECESSARY PERMITS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
20. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DEVELOP THE CONSTRUCTION SCHEDULE AND PHASING, COORDINATE ALL ACTIVITIES WITH THE STATE OF CONNECTICUT AND THE CITY OF NEW HAVEN AND NOTIFY ADJACENT PROPERTY OWNERS, AS REQUIRED. NOTIFY NECESSARY PARTIES AT LEAST 5 DAYS IN ADVANCE.
21. ALL EXISTING SITE UTILITIES WHICH ARE NOT INDICATED ON PLANS SHALL NOT BE INTERRUPTED FROM CONTINUOUS SERVICE. CONTRACTOR TO NOTIFY ENGINEER OF ANY CONFLICTS OR CONCERNS. EXISTING UTILITIES TO REMAIN ARE TO BE PROTECTED DURING CONSTRUCTION.
22. ESTABLISH AND MAINTAIN AT LEAST TWO BENCHMARKS ON SITE FOR VERTICAL AND HORIZONTAL CONTROL.
23. SAFETY ISSUES & HOURS OF OPERATION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE COORDINATED & APPROVED BY THE OWNER.

ABBREVIATIONS:

2LN	SECOND LEVEL NORTH WING
2LS	SECOND LEVEL SOUTH WING
3LN	THIRD LEVEL NORTH WING
3LS	THIRD LEVEL SOUTH WING
@	AT
A/C	AIR CONDITIONING ACCESS
AB	ANCHOR BOLT
ABV	ABOVE
AC	ACOUSTICAL
ACC	ACCESS
ACFL	ACCESS FLOOR
ACP	ACOUSTICAL CEILING PANEL
ACR	ACRYLIC PLASTER
ACT	ACOUSTICAL TILE
AD	AREA DRAIN
ADD	ADDENDUM
ADH	ADHESIVE
ADJ	ADJUSTABLE
ADJT	ADJACENT
AFF	ABOVE FINISH FLOOR
AGG	AGGREGATE
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
ANC	ANCHORAGE
ANOD	ANODIZED
AP	ACCESS PANEL
APPROX	APPROXIMATE
APT	APARTMENT
ARCH	ARCHITECTURAL
ASB	ASBESTOS
ASC	ABOVE SUSPENDING CEILING
ASPH	ASPHALT
AT	ASPHALT TILE
AUTO	AUTOMATIC
AV	AUDIO VISUAL
AWP	ACOUSTICAL WALL PANEL
BBD	BULLETIN BOARD
BBR	BASEBOARD RADIATION
BD	BOARD
BEL	BELOW
BIT	BITUMINOUS
BJT	BED JOINT
BLDG	BUILDING
BLK(G)	BLOCKING
BLST	BLUESTONE
BM	BEAM
BMK	BENCH MARK
BO	BY OWNER
BOT	BOTTOM
BP	BACK PLASTERED
BPL	BEARING PLATE
BRK	BRICK
BRZ	BRONZE
BS	BOTH SIDES
BSMT	BASEMENT
BTWN	BETWEEN
BUR	BUILT UP ROOF
BVL	BEVELED
BW	BOTH WAYS
CAB	CABINET
CAD	CADMIUM
CB	CATCH BASIN
CEM	CEMENT
CF	CUBIC FOOT
CFL	COUNTERFLASHING
CG	CORNER GUARD
CHAM	CHAMFER
CHBD	CHALKBOARD
CHT	CEILING HEIGHT
CI	CAST IRON
CIP	CAST-IN-PLACE
CIPC	CAST-IN-PLACE CONCRETE
CIR	CIRCLE
CIRC	CIRCUMFERENCE
CJT	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLK(G)	CAULK(ING)
CLL	CONTRACT LIMIT LINE
CLR	CLEAR
CLS	CLOSURE
CMT	CERAMIC MOSAIC TILE
CMU	CERAMIC MASONRY UNIT
COL	COLUMN
COMB	COMBINATION
COMP	COMPRESS(ED)(ION)(IBLE)
COMPO	COMPOSITE, COMPOSTION
COMPT	COMPARTMENT
CONC	CONCRETE
CONF	CONFERENCE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COR	CORRUGATED
CORR	CORRIDOR
CPG	COPING
CPR	COPPER
CPT	CARPET
CR	CHROMIUM PLATED
CRG	CROSS GRAIN
CRS	COURSE(S)
CS	COUNTERSINK
CSMT	CASEMENT
CST	CAST STONE
CT	CERAMIC TILE
CTHK	COATHOOK
CTR	COUNTER
CTSK	COUNTERSUNK SCREW
CW	CURTAIN WALL
CX	CONNECTION
CY	CUBIC YARD
D	DRAIN
DA	DOUBLEACTING
DEM	DEMOLISH, DEMOLITION
DEP	DEPRESSED
DET	DETAIL
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIAG	DIAGONAL
DIAM	DIAMETER
DIM	DIMENSION
DIV	DIVISION
DL	DEAD LOAD
DMPR	DAMPER
DMT	DEMOUNTABLE
DN	DOWN
DP	DAMPPROOFING
DPL	DISPOSAL
DPR	DISPENSER
DR	DOOR
DRB	DRAINBOARD
DS	DOWNSPOUT
DT	DRAIN TILE
DTA	DOVETAIL ANCHOR
DTS	DOVETAIL ANCHOR SLOT
DW	DISHWASHER
DWG	DRAWING
DWR	DRAWER
DWTR	DUMBWAITER
E	EAST
EA	EACH
EB	EXPANSION BOLT
EF	EXHAUST FAN
EJT	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EMER	EMERGENCY
EMI	ELECTROMAGNETIC INTERFERENCE
ENCL	ENCLOSURE
EPBD	ELECTRIC PANELBOARD
EPS	EXTERIOR PAINT SYSTEM
EQ	EQUAL
EQPT	EQUIPMENT
ESCL	ESCALATOR
ESTM	ESTIMATE
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EXCA	EXCAVATE
EXG	EXISTING
EXH	EXHAUST
EXMP	EXPANDED METAL PLATE
EXP	EXPOSED
EXS	EXTRA STRONG
EXT	EXTERIOR
FA	FIRE ALARM
FAI	FRESH AIR INTAKE
FAS	FASTENER
FB	FACE BRICK
FBD	FIBERBOARD
FBO	FURNISHED BY OTHERS
FBRK	FIRE BRICK
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FACTORY FINISH
FFE	FINISHED FLOOR ELEVATION
FFL	FINISHED FLOOR LINE
FG	FIXED GLASS
FGL	FIBERGLASS
FHMS	FLATHEAD MACHINE SCREW
FHS	FIRE HOSE STATION
FHWS	FLATHEAD WOOD SCREW
FIN	FINISH(ED)
FIXT	FIXTURE
FJT	FLUSH JOINT
FLCO	FLOOR CLEANOUT
FLG	FLASHING
FLR	FLOOR
FLUR	FLUORESCENT
FLX	FLEXIBLE
FN	FENCE
FNDN	FOUNDATION
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FP	FIRE PROTECTION
FP(G)	FIREPROOF(ING)
FPL	FLOOR PLATE
FR	FRAME(D)(ED)
FRC	FIRE-RESISTANT COATING
FRGD	FORGED
FRPL	FIREPLACE
FRT	FIRE RETARDANT TREATED
FS	FULL SIZE
FTG	FOOTING
FURR	FURRED, FURRING
FUT	FUTURE
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GF	GROUND FACE
GI	GALVANIZED IRON
GKT	GASKET
GL	GLASS, GLAZIING
GLB	GLASS BLOCK
GLF	GLASS FIBER
GLN	GROUND LEVEL NORTH WING
GLS	GROUND LEVEL SOUTH WING
GP	GALVANIZED PIPE
GPL	GYPSUM LATH
GPPL	GYPSUM PLASTER
GPT	GYPSUM TILE
GRD	GRADE, GRADING
GRN	GRANITE
GRPG	GLASS REINFORCED POLYMERIZED GYPSUM
GSS	GALVANIZED SHEET STEEL
GST	GLAZED STRUCTURAL TILE
GT	GROUT
GVL	GRAVEL
GWB	GYPSUM WALLBOARD
GYP	GYPSUM
H/C	HANDICAP(PED)
HB	HOSE BIB
HBD	HARDBOARD
HC	HOLLOW CORE
HD	HEAVY DUTY
HDNR	HARDNER
HDR	HEADER
HDWR	HARDWARE
HES	HIGH EARLY STRENGTH CEMENT
HH	HANDHOLE
HJT	HEADJOINT
HK(S)	HOOK(S)
HM	HOLLOW METAL
HORZ	HORIZONTAL
HPT	HIGH POINT
HR	HOUR
HT	HEIGHT
HTG	HEATING
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HWD	HARDWOOD
HWH	HOT WATER HEATER
HX	HEXAGONAL
ID	INSIDE DIAMETER
IGF	INTERIOR GLAZED FRAMES
IGU	INSULATED GLASS UNIT
ILK	INTERLOCK
INCIN	INCINERATOR
INCL	INCLUDE(D), INCLUDING
INS	INSULATE, INSULATION
INSC	INSULATING, INSULATION
INSF	INSULATING FILL
INT	INTERIOR
INTM	INTERMEDIATE
INV	INVERT
IPS	INTERIOR PAINT SYSTEM
JC	JANITOR CLOSET
JF	JOINT FILLER
JST	JOIST
JT	JOINT
KIT	KITCHEN
KO	KNOCKOUT
KPL	KICKPLATE
L	LENGTH
LAB	LABORATORY
LAD	LADDER
LAM	LAMINATE (D)
LAV	LAVATORY
LB	LAG BOLT
LBL	LABEL
LC	LIGHT CONTROL
LCC	LEAD COATED COPPER
LF	LINEAR FOOT
LH	LEFT HAND
LL	LIVE LOAD
LLN	LOWER LEVEL NORTH WING
LLS	LOWER LEVEL SOUTH WING
LMS	LIMESTONE
LPT	LOW POINT
LT	LIGHT
LTL	LINTEL
LVR	LOUVER
LW	LIGHT WEIGHT
LWC	LIGHT WEIGHT CONCRETE
LWF	LIGHT WEIGHT FILL
M	METER(S)
MAS	MASONRY
MAX	MAXIMUM
MB	MACHINE BOLT
MBR	MEMBER
MC	MEDICINE CABINET
MECH	MECHANICAL
MED	MEDIUM
MEP	MECHANICAL ELECTRICAL AND PLUMBING
MFD	METAL FLOOR DECKING
MFR	MANUFACTURER
MH	MANHOLE
MI	MALLEABLE IRON
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MLDG	MOLDING, MOULDING
MM	MILLIMETER(S)
MMA	MISC METAL ACCESSORY
MO	MASONRY OPENING
MOD	MODEL
MODU	MODULAR
MOV	MOVABLE
MR	MOP RECEPTOR
MR GWB	MOISTURE RESISTANT GWB
MT(D)	MOUNT(ED)
MTHR	METAL THRESHOLD
MTL	METAL
MULL	MULLION
MWK	MILLWORK
N	NORTH
NAT	NATURAL
NCX	NONCOMBUSTIBLE EXTERIOR
NGVD	NATIONAL GEOGRAPHICAL VERTICAL DATA
NI	NICKEL
NIC	NOT IN CONTRACT
NL	NAILABLE
NNT	NONMETALLIC
NOM	NOMINAL
NR	NOISE REDUCTION
NRC	NOISE REDUCTION COFFICIENT
NTS	NOT TO SCALE
OA	OVERALL
OBS	OBSCURE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OHMS	OVALHEAD MACHINE SCREW
OHWS	OVALHEAD WOOD SCREW
OJ	OPEN-WEB JOIST(S)
OP	OPAQUE
OPN	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OPS	OPPOSITE SURFACE
PAR	PARALLEL
PB	PANIC BAR
PBD	PARTICLE BOARD
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PE	PORCELAIN ENAMEL
PERF	PERFORATED(D)
PERI	PERIMETER
PFB	PREFABRICATED
PG	PLATE GLASS
PJ	PANEL JOINT
PK	PARKING
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLF	POUNDS PER LINEAR FOOT
PLT	PLATE
PNL	PANEL
PNT(D)	PAINT(ED)
POLY	POLYETHYLENE
PR	PAIR
PRF	PREFORMED
PRN	PREFINISH
PSC	PRESTRESSED CONCRETE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PTC	POST TENSIONED CONCRETE
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PTR	PAPER TOWEL RECEPTOR
PVC	POLYVINYL CHLORIDE
PVG	PAVING
PVMT	PAVEMENT
PWD	PLYWOOD
QT	QUARREY TILE
R	RISER
RA	RETURN AIR
RAD	RADIUS
RAG	RETURN AIR GRILLE
RAI	REMOTE ALARM INDICATOR
RB	RUBBER BASE
RBS	RUBBLE STONE
RBT	RABBET
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RE	REINFORCE(D), REINFORCING
REF	REFERENCE
REG	REGISTER
REGD	REQUIRED
REM	REMOVE
REQA	REQUIREMENTS
RES	RESILIENT
RET	RETURN
RETG	RETAINING
REV	REVISION
RF	RADIO FREQUENCY
RFG	ROOFING
RFH	ROOF HATCH
RFL	REFLECT(ED)(IVE)(OR)
RH	RIGHT HAND
RL	RAIL(ING)
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RT	RUBBER TILE
RTF	RESILIENT TILE FLOOR
RTG	RATING
RV	ROOF VENT
RVS	REVERSE SIDE
RVT	RIVET
RWC	RAINWATER CONDUCTOR
RWL	RAINWATER LEADER
S	SOUTH
SAB	SOUND ATTENUATION BATT
SC	SOLID CORE
SCH	SCHEDULE
SCN	SCREEN
SCT	STRUCTURAL CLAY TILE
SD	STORM DRAIN
SECT	SECTION
SF	SQUARE FOOT
SFGL	SAFETY GLASS
SG	SHEET GLASS
SH	SHELF, SHELVING
SHO	SHORE, SHORING
SHT	SHEET
SHTH	SHEATHING
SIM	SIMILAR
SKLT	SKYLIGHT
SL	SLEEVE
SLNT	SEALANT
SP	SOUNDPROOF
SPC	SPACER
SPEC(S)	SPECIFICATION(S)
SPKR	SPEAKER
SPL	SPECIAL
SQ	SQUARE
SSG	STRUCTURAL SILICONE GLAZED
SSK	SERVICE SINK
SSTL	STAINLESS STEEL
ST	STAIN
STA	STATION
STD	STANDARD
STG	SEATING
STL	STEEL
STN	STONE
STOR	STORAGE
STR	STRUCTURAL
SUS	SUSPEND(ED)
SYM	SYMMETRICAL
SYN	SYNTHETIC
SYS	SYSTEM
T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T.O.	TOP OF
TB	TOWEL BAR
TC	TERRA COTTA
TEL	TELEPHONE
TEMP	TEMPORARY
THK	THICK(NESS)
THR	THRESHOLD
TKBD	TACKBOARD
TKS	TACKSTRIP
TMPD	TEMPERED
TOC	TOP OF CURB
TOL	TOLERANCE
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TOW	TOP OF WALL
TP	TACK PANEL
TPD	TOILET PAPER DISPENSER
TPL	TOP OF PLATE
TPTN	TOILET PARTITION
TR	TRANSOM
TSL	TOP OF SLAB
TV	TELEVISION
TW	TOP OF WALL
TYP	TYPICAL
UC	UNDERCUT
UGD	UNDERGROUND
UNF	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
VAR	VARNISH
VB	VAPOR BARRIER
VC	VIBRATION CRITERION
VCT	VINYL COMPOSITION TILE
VERT	VETICAL
VF	VINYL FABRIC
VG	VERTICLE GRAIN
VGD	VARIABLE GEOMETRY DISCHARGE
VIF	VERIFY IN FIELD
VIN	VINYL
VJ	V-JOINTED
VNB	VINYL BASE
VNR	VENEER
VRM	VERMICULITE
VT	VINYL TILE
VWC	VINYL WALL COVERING
W	WEST
W/	WITH
W/O	WITHOUT
WB	WOOD BASE
WC	WATER CLOSET
WD	WOOD
WG	WIRE GLASS
WH	WALL HUNG
WHB	WHEEL BUMPER
WI	WROUGHT IRON
WIN	WINDOW
WM	WIRE MESH
WP	WATERPROOFING
WPT	WORKING POINT
WR	WASTE RECEPTACLE
WRP	WATER REPELLANT
WS	WATERSTOP
WS	WEATHER STRIP
WSCT	WAINSCOT
WTW	WALL TO WALL
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
ZOL	ZOLATONE

MATERIALS:

- EARTH
- GRAVEL
- CAST-IN-PLACE CONCRETE
- CONCRETE MASONRY UNIT
- BRICK WALL
- STONE
- SAND, MORTAR, PLASTER
- WOOD (ROUGH)
- WOOD (FINISH)
- PLYWOOD
- PARTICLE BOARD
- METAL (LARGE SCALE)
- BATT INSULATION
- RIGID INSULATION
- GYPSUM WALLBOARD
- SPRAY FOAM INSULATION
- PRECAST CONCRETE
- SPRAY FIRE PROOFING

SYMBOLS:

- + 368' — NEW SPOT ELEVATION
- + 368' — EXISTING SPOT ELEVATION
- 370 — NEW CONTOURS
- 370 — EXISTING CONTOURS
- ELEVATION LINE
- 206 — ROOM NUMBER
- 101A — DOOR NUMBER
- 2 — REVISION
- A — EXTERIOR WINDOW TYPE
- G3 / A3.1 — BUILDING SECTION
- L5 / A9.1 — WALL SECTION
- J4 / A5.1 — DETAIL REFERENCE
- N, W, E, S, G4 / A6.2 — INTERIOR ELEVATION REFERENCE
- C8 / A9.1 — DETAIL NUMBER; SHEET WHERE DETAIL APPEARS
- G6 / A3.1 — EXTERIOR ELEVATION
- VC-# — NOTES A VIBRATION SENSITIVE ROOM WITH VIBRATION CRITERION CURVE (ASHRAE TC 2.6) VC-A, VC-B, VC-C, OR VC-D

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drawing title: GENERAL INFORMATION
REVISIONS
mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES
volume: 1 of 2
DRAWING PREPARED BY: Centerbrook Architects and Planners, LLP, 67 Main Street, Post Office Box 955, Centerbrook, Connecticut 06409-0955
date: 11-21-2012
scale: 1/8" = 1'-0"
project: SCSU NEW ACADEMIC LABORATORY BUILDING
drawn by: LT
approved by: RM/JBR
CAD no. 1393
project no. BI-RS-283
drawing no. G001

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11/21/2012 11:56:49 AM

Connecticut
Department of Construction Services

3030
Checklist for Permits, Certifications, and Approvals

CTDCS Project Manager: Robert Prentice
CTDCS Project No.: BI-RS-283-CMr **Date:** 11-21-12
Project Title SCSU New Academic Laboratory Building
Facility/Address: 485 Fitch Street, New Haven CT
Anticipated Bid Date January 2013

INSTRUCTIONS

Checklist: This Checklist shall be submitted with the A/E Consultant's ("Consultant") proposal and revised and resubmitted with each Preconstruction Phase Submittal to the CTDCS Project Manager for all DCS Projects. Copies of the Checklist are to be sent to DCS Environmental Planning and DCS Code Services. The Consultant shall submit drafts of all applications as part of the Design Development Phase Submission.

For DCS Design-Bid-Build Projects and CMR Projects, the Consultant (or in the case of a Design-Build Project, the design-build firm) shall ensure all the required permits, certificates, and/or approvals are obtained for the project. The Consultant shall review all prior environmental documents for the project to assist in determining required permits and/or mitigation measures.

The Consultant shall review each permit, certification, or approval to determine if it is applicable to the project. For supplemental information about an individual permit, certification, or approval, contact the appropriate agency or agency website for specific information. Furthermore, as specified in the DCS Consultant's Procedure Manual, the Consultant shall coordinate with the appropriate Agency(ies), complete all necessary application forms, and submit the permit(s), certification(s), and/or approvals for the project. **EXCEPT FOR DEEP** Inland Water Resources and State Traffic Commission approvals, in which case the Consultant shall coordinate with DCS Environmental Planning.

If additional study is required by the permitting agency, then an additional scope of work can be negotiated with the DCS Project Manager for such services. DCS is responsible for all application fees, except for the "General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities," which shall be submitted and paid for by the General Contractor or CMR. However, in the case of the stormwater general permit, the Consultant shall complete all of the required information and include it in the construction contract documents for use by the General Contractor or CMR.

Permit Letter: The Consultant shall submit a "Permit Letter" to DCS Environmental Planning documenting that all applicable permits (not code related) have been reviewed, and that the project has been designed in accordance with applicable permits (e.g., DEEP General Permits for Food Preparation Establishment Wastewater and/or Minor Boiler Blowdown Wastewater). See the Permit Evaluation and Letter Instructions (3030.1) at the end of the Checklist for additional information.

Permit Closeout Binder: Once all environmental permits have been evaluated, submitted, registered, and/or approved, the Consultant shall submit a Permit Closeout Binder to DCS Environmental Planning, including, but not limited to, the Permit Letter, applicable calculations, operational requirements as per applicable permits, and all associated permits.

The Consultant must select the appropriate answer from the dropdown menus for each permit, certification, and approval.

Project Delivery Method: ☐ Design-Bid-Build ☐ Design-Build ☒ CMR

Submitted With:
- ☐ Proposal Phase *(Preliminary Applicable Review)*
- ☐ SD Phase
- ☐ DD Phase *(Include Completed Drafts Of All Applicable Permit Applications)*
- ☐ CD Phase
- ☒ Bid Phase
- ☐ Environmental Phase

Project Type: *(Check All Applicable to this Project)*
- ☒ New
- ☐ Addition
- ☐ Major Renovation
- ☐ Minor Renovation

Other Information:

Existing Gross Square Footage (GSF):	0	No. of Existing Parking Spaces:	290
Proposed New (GSF):	99,332	No. of Proposed New Parking Spaces:	33
Proposed GSF To Be Demolished:	0	No. of Existing Parking Spaces To Be Demolished:	257

Connecticut
Department of Construction Services

3030
Checklist for Permits, Certifications, and Approvals

CT DCS Project No.: _____ **Date:** _____

AGENCIES / PERMIT	Telephone Number	Click On Drop Down Box In Each Category: Is the Permit Required?	Who is responsible to obtain Permit?	Permit Status
FEDERAL AGENCIES	—	—	—	—
ARMY CORPS OF ENGINEERS (ACE)	—	—	—	—
Programmatic General Permit (PGP) *(Category I - without review [less than 5,000 sf]) (Category II - with review [5,000 sf – 1 acre])*	978 318-8338	No		
Individual Permit *(Does not meet Category II - greater than 1 acre of fill/excavation)*	978 318-8338	No		
ENVIRONMENTAL PROTECTION AGENCY (EPA)	—	—	—	—
Sole Source Aquifer Review *(CT has two Sole Source Aquifers: the Pootatuck Aquifer (Newtown, Monroe, and Easton) and the Pawcatuck River Aquifer (Stonington and North Stonington)*	617 918-1111	No		
FEDERAL AVIATION ADMINISTRATION (FAA)	—	—	—	—
Notice of Proposed Construction or Alteration	781 238-7522	No		
FEDERAL COMMUNICATIONS COMMISSION (FCC)	—	—	—	—
General Mobile Radio Service License	888 225-5322	No		
UNITED STATES ACHITECTURAL AND TRANSPORTATION BARRIERS COMPLIANCE BOARD (ATBCB)	—	—	—	—
Americans with Disabilities Act	800 872-2253	No		
STATE AGENCIES	—	—	—	—
CONNECTICUT COMMISSION ON CULTURE AND TOURISM (CCT)	—	—	—	—
Art in Public Spaces Program	860 256-2800	Yes	DCS	In Selection
State Historic Preservation Office (SHPO): Impact to Cultural Resources *(Three part review: New construction [site work / archeological], Rehabilitation, and Demolition)*	860 256-2800	No		
CONNECTICUT SITING COUNCIL (CSC)	—	—	—	—
Certificate of Environmental Compatibility & Public Need *(Towers, Transmission Lines and Hazardous Waste Storage Facilities)*	860 827-2935	No		

Connecticut
Department of Construction Services

3030
Checklist for Permits, Certifications, and Approvals

CT DCS Project No.: _____ **Date:** _____

AGENCIES / PERMIT	Telephone Number	Click On Drop Down Box In Each Category: Is the Permit Required?	Who is responsible to obtain Permit?	Permit Status
STATE AGENCIES	—	—	—	—
DEPT. OF ADMINISTRATIVE SERVICES (DAS)				
Leasing and Property Transfers	—	—	—	—
Leasing/Acquisitions/Takings/Municipal Negotiations	860 713-5682	No		
Proximity to Railroads/Bus Routes *(Only for leasing or purchasing properties)*	860 713-5706	Not Applicable		
DEPARTMENT OF AGRICULTURE (DOA)	—	—	—	—
Farmland Preservation Program *(25 plus acres of prime or statewide farmland soils) Contact DCS Environmental Planning*	860 713-2511	No		
DEPT. OF CONSTRUCTION SERVICES (DCS)	—	—	—	—
Legal Services				
Easements	860 713-5662	No		
Technical Services – Environmental and Energy				
Connecticut Environmental Policy Act (CEPA)	860 713-5706	No		
Initial Environmental Review	860 713-5706	Not Applicable		
Environmental Site Assessments:	860 713-5705			
• Phase I	—	No		
• Phase II	—	No		
• Phase III	—	No		
• Remedial Action Plan (RAP)	—	No		
Hazardous Material Inspection/Abatement Request (asbestos, PCBs, lead, or indoor air quality)	860 713-5705	No		
Life Cycle Cost Analysis Determination	860 713-5705	No		
Life Cycle Cost Analysis (LCCA)	860 713-5705	No		
National Environmental Policy Act (NEPA)	860 713-5706	No		
Transfer Act Site Assessment (TASA)	860 713-5705	No		
Above and/or Under Ground Storage Tank Removal	860 713-5705	No		
Above and/or Under Ground Storage Tank Installation	860 713-5705	No		

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Checklist for Permits, Certifications, and Approvals

CT DCS Project No.: _____ **Date:** _____

AGENCIES / PERMIT	Telephone Number	Click On Drop Down Box In Each Category: Is the Permit Required?	Who is responsible to obtain Permit?	Permit Status
CODE EVALUATIONS The following procedure is required for all DCS administered and agency administered state construction projects.				
STATE AGENCIES	—	—	—	—
DEPT. OF CONSTRUCTION SERVICES (DCS)	—	—	—	—
Division of Design and Construction – Code Services	860 713-5705	—	—	—
Division of Fire and Building Services	—	—	—	—
Office of the State Building Inspector (OSBI) *(Do not contact OSBI initially, first contact DCS Project Manager)*	860 685-8310	Yes		
Office of the State Fire Marshal (OSFM) *(Do not contact OSFM initially, first contact DCS Project Manager)*	860 685-8380	Yes		
Building and Fire Safety Codes Review	—	—	—	—
• Schematic Design Submittal	—	—	—	Submitted
• Design Development Submittal	—	—	—	Submitted
• Contract Documents Submittal	—	—	—	Submitted
• Bid Document Submittal/Building Permit Application *(Submit to DCS Project Manager for processing through the appropriate authority having jurisdiction)*	—	—	—	Submitted
○ ICC Plan Review Record Forms	—	Yes	A/E Consultant	Pending
○ Connecticut State Demolition Code	—	No		
○ Certificate of Compliance	—	Yes	A/E Consultant	Pending
○ Certificate of Occupancy	—	Yes	DCS	Pending
○ Statement of Special Inspections	—	Yes	A/E Consultant	Pending
○ Third Party Structural Review	—	Yes	DCS	Pending
Accessibility Exemption Waiver Request *(Submit to DCS Project Manager for processing through the appropriate authority having jurisdiction)*	—	No		
Chair Lifts, Wheelchair, and Limited Elevators Application Request *(Submit to DCS Project Manager for processing through the appropriate authority having jurisdiction)*	—	No		
Building Code Modification Request *(Submit to DCS Project Manager for processing through the appropriate authority having jurisdiction)*	—	Yes	A/E Consultant	Approved

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Checklist for Permits, Certifications, and Approvals

CT DCS Project No.: _____ **Date:** _____

AGENCIES / PERMIT	Telephone Number	Click On Drop Down Box In Each Category: Is the Permit Required?	Who is responsible to obtain Permit?	Permit Status
STATE AGENCIES	—	—	—	—
Fire Code Modification Request *(Submit to DCS Project Manager for processing through the appropriate authority having jurisdiction)*	860 685-8350	Yes	A/E Consultant	Approved
Construction Project Close-out:	—			
• Certificate of Substantial Completion	—			
• Certificate of Compliance	—			
• Certificate of Acceptance	—			
• Certificate of Completion	—			
• Certificate of Compliance Requirements for: ○ Fire Alarm System Inspection Testing; ○ Certification for all Protective Signaling Systems.	—			
DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION (DEEP)	—	—	—	—
Permits Assistance Office	860 424-3003	—	—	—
Central Permit Processing Unit	860 424-4004	—	—	—
Bureau of Air Management (Individual Permits)	—	—	—	—
Title V Operating Permit	860 424-4152	No		
New Source Review Permit *(Permit to Construct/Operate)*	860 424-4152	No		
Bureau of Air Management (General Permits)	—	—	—	—
Limit Potential to Emit from Major Stationary Sources of Air Pollution (Title V General Permit)	860 424-4152	No		
Bureau of Air Management, Radiation Division	—	—	—	—
X-Ray and Ionizing Radiation Source Registration	860 424-3029	No		
Bureau of Materials Management and Compliance Assurance (Individual Permits)	—	—	—	—
Surface Water Discharge Permit (NPDES)	860 424-3018	No		
Ground Water Discharge Permit	860 424-3018	No		
Pre-treatment Permit (Sewer Permit) for Discharges to Publicly Owned Treatment Works	860 424-3018	No		
Aerial Pesticide Application	860 424-3369	No		
Aquatic Pesticide Application	860 424-3369	No		
Asbestos Disposal Authorization	860 424-3366	No		

Connecticut
Department of Construction Services

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Checklist for Permits, Certifications, and Approvals

CT DCS Project No.: _____ **Date:** _____

AGENCIES / PERMIT	Telephone Number	Click On Drop Down Box In Each Category: Is the Permit Required?	Who is responsible to obtain Permit?	Permit Status
STATE AGENCIES	—	—	—	—
Hazardous Waste Treatment, Storage, and Disposal Facilities	860 424-3372	No		
Solid Waste Facilities	860 424-3366	No		
Special Waste Disposal Authorization	860 424-3567	No		
Underground Storage Tank Registration	860 424-3374	No		
CGS Sec. 22a-454 Waste Facility	860 424-3372	No		
Bureau of Materials Management and Compliance Assurance (General Permits)	—	—	—	—
Contaminated Soil and/or Sediment Management *(Staging and Transfer)*	860 424-3372	No		
Bureau of Water Protection and Land Reuse (General Permits)	—	—	—	—
Aquifer Protection Area	860 424-3020	No		
Domestic Sewage	860 424-3003	No		
Food Preparation Establishment Wastewater	860 424-3755	No		
Food Processing Wastewater	860 424-3003	No		
Groundwater Remediation Wastewater Directly to Surface Water	860 424-3003	No		
Groundwater Remediation Wastewater to a Sanitary Sewer	860 424-3003	No		
Hydrostatic Pressure Testing Wastewater	860 424-3003	No		
Minor Boiler Blowdown Wastewater	860 424-3003	No		
Minor Non-Contact Cooling and Heat Pump Water	860 424-3003	No		
Minor Photographic Processing Wastewater	860 424-3003	No		
Minor Printing and Publishing Wastewater	860 424-3003	No		
Minor Tumbling or Cleaning of Parts Wastewater	860 424-3003	No		
Miscellaneous Discharges of Sewer Compatible (MISC) Wastewater	860 424-3003	No		
Stormwater and Dewatering Wastewater Associated with Construction Activities *(Greater than 1-acre of site disturbance)*	860 424-3003	Yes	Contractor	Approved
Stormwater Assoc. w/ Commercial Activity	860 424-3003	No		
Stormwater Assoc. w/ Industrial Activity	860 424-3003	No		
Swimming Pool Wastewater (Public Pool)	860 424-3003	No		
Vehicle Maintenance Wastewater	860 424-3003	No		
Water Treatment Wastewater	860 424-3003	No		

Connecticut
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Checklist for Permits, Certifications, and Approvals

CT DCS Project No.: _____ **Date:** _____

AGENCIES / PERMIT	Telephone Number	Click On Drop Down Box In Each Category: Is the Permit Required?	Who is responsible to obtain Permit?	Permit Status
STATE AGENCIES	—	—	—	—
Inland Water Resources Division (Individual Permits) *(Contact DCS Environmental Planning for DEEP Coordination 860-713-5706)*	—	—	—	—
Dam Construction Permit	860 424-3706	No		
Dam/Retention Pond Review	860 424-3706	No		
Flood Management Certification	860 424-3706	Yes	DCS	Pending
Inland 401 Water Quality Certification	860 424-3019	No		
Inland Wetlands & Watercourses Permits	860 424-3019	No		
Stream Channel Encroachment	860 424-3019	No		
Water Diversion Permit *(Detention/Retention Ponds)*	860 424-3019	No		
Inland Water Resources Division (General Permits) *(Contact DCS Environmental Planning for DEEP Coordination 860-713-5706)*	—	—	—	—
Dam Safety Repair and Alteration	860 424-3019	No		
Diversion of Remediation Groundwater	860 424-3717	No		
Diversion of Water for Consumptive Use	860 424-4192	No		
Habitat Conservation	860 424-3019	No		
Lake, Pond and Basin Dredging	860 424-3019	No		
Minor Grading	860 424-3019	No		
Minor Structures	860 424-3019	No		
Utilities and Drainage	860 424-3019	No		
Office of Long Island Sound Programs	—	No		
Structures, Dredging & Filling Permit	860 424-3034	No		
Tidal Wetlands Permit	860 424-3034	No		
Coastal 401 Water Quality Certification	860 424-3034	No		
Certificate of Permission *(Short Permit Process)*	860 424-3034	No		
Consistency with Coastal Management Act	860 424-3034	No		
Natural Diversity Database Review	—	—	—	—
NDDB Review Request *(Endangered, threatened, and special concern species and habitats)*	860 424-3011	No		

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CT DCS Project No.: _____ **Date:** _____

AGENCIES / PERMIT	Telephone Number	Click On Drop Down Box In Each Category: Is the Permit Required?	Who is responsible to obtain Permit?	Permit Status
STATE AGENCIES	—	—	—	—
DEPARTMENT OF PUBLIC HEALTH (DPH)	—	—	—	—
Asbestos Abatement Notification	860 509-7367	No		
Asbestos Alternative Work Practice Approvals	860 509-7367	No		
Asbestos Management Plan	860 509-7367	No		
Child Day Care Licensing Program	860 509-8045	No		
Demolition Notification Form	860 509-7367	No		
Environmental Laboratory Certification	860 509-7389	No		
Lead-Based Paint	860 509-7299	No		
Public Water System Approval	860 509-7333	No		
Subsurface Sewage Disposal System (Septic tanks)	860 509-7296	No		
Swimming Pools	860 509-7296	No		
DEPARTMENT OF SOCIAL SERVICES (DSS)	—	—	—	—
Certificate of Need *(Nursing home facilities)*	860 424-5105	No		
DEPARTMENT OF TRANSPORTATION (DOT)	—	—	—	—
Encroachment Permit	860 594-2610	Yes	Contractor	Pending
State Traffic Commission (STC) *(Contact DCS Environmental Planning for STC Coordination 860-713-5706)*	—	—	—	—
STC Administrative Decisions	860 594-3020	Yes	DCS	Pending
STC Major Traffic Generator Certificate	860 594-3020	No		
OFFICE OF HEALTH CARE ACCESS (OHCA)	—	—	—	—
Certificate of Need *(Non-nursing home facilities)*	860 418-7038	No		
PUBLIC UTILITIES REGULATORY AUTHORITY (formerly DPUC; now consolidated into DEEP)	—	—	—	—

NOTE:
The Consultant shall not contact the Public Utilities Regulatory Authority unless requested to do so by the CTDCS Project Manager. In the event that the utility company and DCS are unable to reach an agreement with regard to utility services for the project the Consultant may be instructed to contact the Public Utilities Regulatory Authority.

Utility Service:	860 827-1553			

Connecticut
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CT DCS Project No.: _____ **Date:** _____

AGENCIES / PERMIT	Telephone Number	Click On Drop Down Box In Each Category: Is the Permit Required?	Who is responsible to obtain Permit?	Permit Status
MUNICIPAL	—	—	—	—
CITY OF HARTFORD	—	—	—	—
Greater Hartford Flood Certificate of Approval	860 722-6206	No		
MUNICIPALITIES	—	—	—	—
Planning and Zoning *(Note: State agencies are exempt from local planning and zoning regulations. However, where possible the goal is to be consistent with local regulations.)*	—	No		
Building Demolition Permit	—	No		
UTILITY SERVICE COMPANIES	—	—	—	—
Energy Conservation Programs	—	No		
Energy Conscious Blueprint *Connecticut Light and Power Co. (CL&P) [new construction]*	860 665-3790 Lamont White	No		
Energy Opportunities *Connecticut Light and Power Co. (CL&P)*	860 665-3054 John Matchett	No		
Energy Blueprint *United Illuminating Company (UI)*	860 499-2032 860 499-2025 Roy Haller	No		

PERMANENT UTILITY SERVICES

(A copy of the specific project data from the permanent utility company including the date of the agreement shall be sent to the design engineer.) **The Consultant is required to research, as applicable, potential connection fees associated with each permanent utility service provider.**

NOTE: *If permanent utility connections are required then the Architect/Engineer must note in the applicable utility CSI Construction Specification Section that the Contractor or CMR shall be responsible for obtaining all approvals and paying all fees and costs associated with the permanent utility connection to each permanent utility provider.*

Date Of Agreement	Permanent Utility	Connection Needed?	Potential Connection Fees	Is the Permit Required?	Who is responsible to obtain Permit?	Permit Status
	Cable TV	Not Sure				
	Closed Circuit TV *(Agency System)*	Not Sure				
	Electric *(NU, UL etc.)*	Yes				
	Fire Alarm *(Connected to Fire Dept.)*	Yes				
	Gas *(CNG, YES etc.)*	Yes				
	Security Systems	Yes				
	Septic *(Dept. of Health/DEP)*	No				
	Sewer *(Town, MDC, agency-owned systems, etc.)*	Yes	$107,494			
	Telephone	Yes				
	Water Supply *(Utility)*	Yes	$27,125.88			
	Other: acid neutralization	No				

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Checklist for Permits, Certifications, and Approvals

CT DCS Project No.: _____ **Date:** _____

AGENCIES / PERMIT	Telephone Number	Click On Drop Down Box In Each Category: Is the Permit Required?	Who is responsible to obtain Permit?	Permit Status
OTHER PERMITS, CERTIFICATIONS, OR APPROVALS	—	—	—	—
COMMENTS	—	—	—	—
SIGNATURE	—	—	—	—

At this submission phase, I/we have reviewed each permit, certification, and approval to determine if it is applicable to the project and will prepare all necessary permit, certification, or approval applications, as well as all required documentation for each application for the project.

Signed: _____ **Date:** _____
(Architect/Engineer Signature)

Architect/ Engineer Firm Name: _____
(Typed or Printed)

Phone Number: _____
(Typed or Printed)

Attach comments to this Checklist if needed.
In addition to submitting this Checklist to the DCS Project Manager, submit a copy of **just** the Checklist to:

Department of Construction Services Environmental Planning & GIS Services 165 Capital Avenue, Room 275 Hartford, Connecticut 06106 Or via fax: (860) 713-7250	**AND**	Department of Construction Services Codes Services 165 Capital Avenue, Room 280 Hartford, Connecticut 06106 Or via fax: (860) 713-7251

End
Checklist for Permits,
Certifications, and Approvals

drawing title: PERMIT CHECKLIST

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING: Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD file: 1393 project no.: BI-RS-283

volume: 1 of 2
date: 11-21-2012
scale:
drawn by: RM
approved by: RM/JBR
drawing no.: G002

APPLICABLE CODES

2003 International Building Code portion of the 2005 State Building Code, State of Connecticut with 2009 amendments.

2003 International Plumbing Code with 2005 and 2009 Connecticut amendments

2003 International Mechanical Code with 2005 and 2009 Connecticut amendments

2009 International Energy Conservation Code with 2011 Connecticut amendments

2000 NFPA 45, Laboratories Using Chemicals

2005 National Electrical Code with 2005 and 2009 Connecticut amendments

1996 ASME A17.1 Safety Code for Elevators and Escalators with 1997 and 1998 addenda (if required)

2003 ANSI A117.1 Accessible and Usable Buildings and Facilities with 2005 and 2009 Connecticut amendments

2005 Connecticut State Fire Safety Code with 2009 amendments
Parts I, II, III and V apply to new construction

2010 Connecticut State Fire Prevention Code

2010 Accessibility Guidelines, Americans with Disabilities Act

Occupational Safety and Health Administration

Other codes and standards are in effect as referenced by the above documents.

See specifications section 01 42 20 Reference Standards & Definitions

CODE MODIFICATIONS

Code modification M-408-11(A) has been approved permitting the hoods to be constructed in accordance with the 2009 International Mechanical Code.

Code modification M-408-11(B) and code modification FM-0151-11 have been approved to permit a six foot smoke layer interface height and the construction of the smoke control system in accordance with 2009 IBC and NFPA 92B.

Code modification M-676-12(A) has been approved permitting the plumbing fixture counts to be based on 800 occupants instead of the actual occupant load.

Code modification M-676-12(B) has been approved for modification of CSBC 1019.1.4 to permit the proposed exterior wall rating at Stair 3 Vestibule 145.

CODE SUMMARY

Occupancy Classification

- The building is treated as a Group B occupancy, based on the quantities of hazardous material being less than those triggering Group H classification.
  Classrooms with an occupant load of more than 50 persons consist of less than 10% of the floor area and are treated as accessory use areas.
- Sprinklers. . . . . yes
- Construction type. . . . . Type IIB

Structural Fire Resistance

- Fire ratings for structural members are as follows:

Element	Type IIB
Structure and floor ceiling assemblies supporting rated assemblies	Noncombustible, not less than rating of assembly supported, for one bay outside of member, including columns
Other structure	Noncombustible, no rating required
Other floor ceiling assemblies	Noncombustible, no rating required
Roofs	Noncombustible, no rating required

Barriers to Fire and Smoke Spread

- Exterior walls

  The new building is currently located 25 feet off the corner of Jennings Hall.

  As Jennings Hall is Group B and of Type IIB construction, an imaginary lot line is set ten feet off of Jennings. Jennings is Type IIB construction due to the unprotected steel penthouse with a fire separation distance of less than 20 feet,
  and possibly insufficient concrete thickness in some locations to obtain a fire rating.

  Exterior walls are not required to be rated and openings are not limited in size, except as indicated below.

  For the proposed building, the imaginary lot line is 15' or more, measured perpendicular to the face of the wall, therefore exterior walls are not required to be rated and windows are not limited in size, except as indicated below.

- Pedestrian walkway

  An underground pedestrian walkway connects the basement of the new building with the basement of Jennings Hall. The code treats this as a tunneled walkway.[7]

  Contents of the walkway are those permitted by the building official. This analysis assumes that the walkway is a pedestrian connector, not a storage area.

  The separations between the tunneled walkway, the new building and Jennings Hall are required to be two hour rated with 1.5 hour doors.
  A pedestrian walkway also connects the new building to Jennings Hall at the third floor. Jennings Hall is not fully sprinklered.

  The walkway is separated from the interior of each building by two hour rated fire barriers. The rating is to extend 10 feet above the walkway roof, or the building roof, whichever is lower, to a point 10 feet below the walkway, and 10 feet to either side. Doors within the walkway are to be
  1.5 hour, openings in the exterior walls are 3/4 hour rated.

- Egress stairwells

  Egress stairwells are required to be of two hour fire resistance fire barriers and horizontal assemblies, and equipped with self-closing or automatic-closing 1-1/2 hour fire rated doors.

  Where exterior walls of stairs are not rated and are exposed by other parts of the building within an angle of less than 180 degrees, the exterior walls on either side of the stair for a distance of ten feet must be one hour rated with 3/4 hour opening protectives.

- Elevator shaft and machine room

  Rating. two hours with 1.5 hour doors
  Fire and smoke dampers are required for duct penetrations
  Venting. . . . . not required
  Ambulance sized elevator. . . . . required
  Standby power for elevator. . . . . not required
  Lobbies. . . . . not required

- Mechanical shafts

	Duct connecting two stories	Duct connecting three stories	Duct connecting four stories
Where floors are fire rated	Fire damper at floor line	Two hour shaft with fire/ smoke dampers	Two hour shaft with fire/ smoke dampers
Other floors	Seal annular space	Fire damper at floor line	Two hour shaft with fire/ smoke dampers

  See the mechanical code for special requirements for laboratory hoods. Code modification M-408-11(A) has been approved permitting the hoods to be constructed in accordance with the 2009 International Mechanical Code.

- Atrium

  An atrium connects the lower through third floors. The highest walking surface open to the atrium is the second floor.

  In order to reduce the smoke control system volume, an atrium separation is provided at certain areas at the lower level.

  The atrium is separated from the third floor

  Atrium separations consist of one hour fire barriers, or tempered glass with closed spaced sprinklers per code.

  A smoke control system on standby power is required.

  Code modification M-408-11(B) and code modification FM-0151-11 have been approved to permit a six foot smoke layer interface height and the construction of the smoke control system in accordance with 2009 IBC and NFPA 92B.

- Corridors. . . . . no rating required

- Incidental areas:

  The following rooms require smoke partitions. Walls must go to the slab, doors must be self-closing and air transfer openings are not permitted. Fire and smoke dampers are not required except for direct air transfer grills.
  Storage and MEP rooms over 100 sf
  Waste collection rooms over 100 sf
  Fuel fired boilers or furnaces over 400,000 btu/hour or 15 psi

  Fire pump room
  One hour fire barrier with 3/4 hour doors, fire dampers not required

Egress

- Design occupant loads are the greater of either the actual number of persons in the space or the occupant loads based on the following.

Occupancy	Factor
Classrooms	One person per 20 nsf
Laboratories	One person per 50 nsf
Offices	One person per 100 gsf
Lounges, conference rooms	One person per 15 nsf
MEP, storage	One person per 300 gsf

- Multiple exits are required as follows:

  Rooms or spaces with occupant load of 50 or less. . . . . one
  Floors, rooms or spaces with occupant load of 51 - 500. . . . . . . two
  Rooms or spaces with a common path of travel of more than 100 feet. . . . . two
  Laboratories more than 1000 sf. . . . . two
  Main electrical room (>1200 amp) . . . . one
  \Complies with NEC exception permitting one access to working space.

- Travel distance to the nearest exit. . . . . 300 feet

  Travel distance within the atrium is limited to 200 feet on ground and second floors.

- Dead end corridors . . . . 50 feet
  Does not apply to mechanical attic, no corridors uses.

- Common path of travel. . . . . 100 feet

  Measured along natural line of travel from farthest point in room or space, to the location where exit access in two directions is available.

- Remoteness of multiple exits is required to be one third the diagonal distance of the space.

- The minimum width of stairs is the greater of 44 inches or 0.3 inches per person served.

- The minimum width of ramps and corridors is 44 inches or 0.2 inches per person served.

- The minimum clear width of door openings is 32 inches. Projections into the clear width of less than four inches, between 34 and 80 inches above the floor, may be ignored.

- Accessible egress

  All areas must have one accessible means of egress.

  Where more than one means of egress is required, accessible means of egress are required in the same numbers as ordinary exits.

  Enclosed stairwells serve as accessible exits. Areas of refuge and 48" clear width stairs are not required.[34]

  Exterior doors leading to accessible routes or exterior areas of rescue assistance serve as accessible exits.

- Balanced egress. . . . all required exits from rooms, spaces and floors, must be balanced

- Additional NFPA 45 egress requirements within laboratories:

  Where a hood is adjacent to an exit access route, a second exit is required.

  See NFPA 45 for additional egress requirements for explosion hazards, certain compressed gas cylinders and certain cryogenic cylinders.

- Additional access and egress issues

  Exit access over exterior roofs is permitted, however lighting, guards and consideration of snow removal is required.

- Exit discharge

  As the ground floor is open to the lower level, both egress stairs are required to discharge directly to the exterior.

Interior Finish

- Interior finish is regulated as follows:

Group B	
Stairs	B
Corridors	C
Atrium	B
Rooms	C

Alarm and Suppression

- A fire alarm system is required.

  The system is to be initiated by waterflow and tamper devices, smoke detection throughout the atrium, and for HVAC shutdown, elevator recall and door holder service. Manual pull stations are not required.

  Audible signals must serve all areas and visual signals are required in all common areas.

  The system is required to report to the fire department by one of the means listed in the code.

  See smoke control report for additional requirements.

- The building will be fully sprinklered and credit for the sprinklers has been taken in the design.

  Sprinklers within laboratory units are to be in accordance with NFPA 45 for Class C laboratories.

- A standpipe system is required.

- Portable fire extinguishers are required only in special hazard areas, such as laboratories.

Plumbing Fixtures

- Plumbing fixture factors are as follows.

Occupancy	Male WC	Female WC	Lavatories	Drinking Fountains	Service Sink
B	1/25 for the first 50, then 1/50	1/25 for the first 50, then 1/50	1/40 for the first 50, then 1/80	1/100	1 every other floor

- Code modification M-676-12(A) has been approved permitting the plumbing fixture counts to be based on 800 occupants instead of the the actual occupant load.

- The occupant load is to be assumed to be one half male and one half female.

- Up to 67% of the male WC may be urinals.

- Unisex toilet rooms are not permitted to be used as required fixtures.

- Toilet rooms must be within one floor and 500 feet of the area served.

Accessibility

- Exterior parking, routes etc. need to be accessible per code.

- All public and common use spaces, are required to be accessible.

  The pedestrian walkway needs to be accessible.

  Mechanical rooms and the mechanical attic are not required to be accessible

- Employee only spaces must be able to be entered and exited.

- 60% of public entrances must be accessible.

- Toilet rooms must be accessible

- Laboratories

  5% of seating or standing spaces at counters, not less than one, in each room need to be accessible.

  5% of sinks, not less than one, in each room need to be accessible.

  One of each type of storage space in each room needs to be accessible.

  One hood with controls needs to be accessible in each room

  Other items may need to be accessible to maintain an accessible program.

- Kitchenettes need to be accessible.

State of Connecticut

Building Information for Codes Analyses

Department of Public Works

The information on this form is intended to expedite the plan review process and is for archival purposes. It assembles all code related information into one table. The information shall be placed on the drawings and become a permanent record of the code information applicable to this building.

CT STATE BUILDING CODE

		YES	NO	N/A
1.0	EXISTING BUILDING:	☐	☒	☐
1.1	Continuation of Existing Use	☐	☐	☒
1.2	Change of Use	☐	☐	☒
1.3	Complying with International Existing Building Code	☐	☐	☒
2.0	NEW BUILDINGS OR ADDITIONS:	☒	☐	☐
2.1	Exceeds Threshold Building Limits	☒	☐	☐

3.0 OCCUPANCY CLASSIFICATION: B
3.1 Mixed Occupancies: N/A

4.0 HEIGHT AND AREA COMPUTATION + CONSTRUCTION TYPE

GENERAL BUILDING LIMITATIONS (Chapters 5 & 6)

Use **Case 1** to determine the allowable height and area and permitted construction types for the building containing a single occupancy or non-separated mixed occupancies. Use **Case 2** to determine the allowable height and area and permitted types of construction for the building containing separated mixed occupancies.

AREA MODIFICATIONS TO TABLE 503

% of allowable tabular area, A_t *(Table 503)*: 100%

% Increase for frontage, I_f (506.2): +72 %

% Increase for automatic sprinklers, I_s *(506.3)*: +200 %

Total percentage factor: =372 %

Conversion factor: 3.72 (Total percentage factor ÷ 100%)

Frontage *(506.2)*	North	East	South	West
	201	219	219	248

Total Frontage *(F)*: 887 ft. Perimeter *(P)*: 915 ft.

Width of open space *(W)* = 30

% Frontage increase (I_f) *(506.2)* = 72%

$$I_f = 100\left[\frac{F}{P} - 0.25\right]\frac{W}{30}$$

CASE 1 – SINGLE OCCUPANCY OR NON-SEPARATED USES (302.3.1)

Using Table 503, identify the allowable height and area of the single occupancy or the most restrictive of the non-separated mixed occupancies. Construction types providing an allowable tabular area equal to or greater than the adjusted building area and allowable heights (as modified by Section 504) equal to or greater than the actual building height are permitted.

DETERMINE CONSTRUCTION TYPE | **ALLOWABLE AREA (506.4)**

Actual building area: 24,927 (Lower Level) ft²

Adjusted building area: 6,701 ft² (actual building area ÷ conversion factor)

Actual building height: 55 feet 4 stories

Allowable building height: 75 feet 5 stories

Permitted construction types: IIB

Type of construction assumed for review (602.1.1): IIB

Allowable area per floor (A_a): 3.72 (conversion factor) x 23,000 (tabular area (Table 503)) = 85,560 ft²

Total floor area (all stories): 103,608 ft²

Allowable floor area (all stories): 85,560 (Allowable area per floor (A_a)) x 4 (506.4 exception 2) (Number of stories (maximum 3)) = 342,240 ft²

CASE 2 – MIXED OCCUPANCY SEPARATED USES (302.3.2)

Using Table 503, identify the allowable height and area of each of the separated uses within the building. Construction types providing for each story of the building, tabular areas (as modified by Section 506), which result in a sum of the ratios of 1.00 or less and allowable heights (as modified by Section 504) equal to or greater than the actual height of the use are permitted.

Story	Group	Actual floor area	Adjusted floor area*	Actual height		Allowable height	
		ft²	ft²	ft	stories	ft	stories
		ft²	ft²	ft	stories	ft	stories
		ft²	ft²	ft	stories	ft	stories
		ft²	ft²	ft	stories	ft	stories
		ft²	ft²	ft	stories	ft	stories

$\sum \frac{\text{Adjusted floor area *}}{\text{Allow. tab. area, } A_t \textit{(Table 503)}}$ = ___ + ___ + ___ + ___ = ___ ≤ 1.00

*Adjusted floor area = actual floor area ÷ conversion factor

ALLOWABLE AREA (506.4)

Allowable area per floor *(A_a)*: ___ (conversion factor) x ___ (tabular area *(Table 503)*) = ___ ft²

Permitted types of construction ___

Total floor area (all stories) ___ ft²

Type of construction assumed for review (602.1.1) ___

___ (Allowable area per floor (A_a)) x ___ (Number of stories (maximum 3)) = ___ ft²

MEZZANINES (505)

N/A	Area limitation *(505.2)*	N/A	Openness (505.4)
N/A	Egress (505.3)	N/A	Equipment platforms (505.5)

UNLIMITED AREA BUILDINGS (507)

N/A	Unsprinklered, one story *(507.1)*	N/A	High-hazard use groups *(507.6)*
N/A	Sprinklered, one story *(507.2)*	N/A	Aircraft paint hangar *(507.7)*
N/A	Two story *(507.3)*	N/A	Group E buildings *(507.8)*
N/A	Reduced open space *(507.4)*	N/A	Motion picture theaters *(507.9)*
N/A	Group A-3 buildings *(507.5)*		

SPECIAL PROVISIONS (508)

N/A Special condition applicable *(508.1)*

CONSTRUCTION INFORMATION

6.0 MEANS OF EGRESS:

6.1	Total Occupant Load (Entire Building)	1209
6.2	Total Occupant Load (Largest Floor)	376 (2nd Floor)
6.3	Total Capacity Of Exits	376 (2 Stairs @ 57")
6.4	Total Number of Exits	2, 5, 2, 2, 2 (Lower, Ground, 2nd, 3rd, 4th)

7.0 FIRE RESISTANT RATING OF STRUCTURE ELEMENTS (TABLE 602) REFER TO CONSTRUCTION DOCUMENTS FOR THE FOLLOWING:

7.1	Exterior Walls:		
7.1.1	Load Bearing	N/A	HR(S)
7.1.2	Non-load Bearing	0, except as noted on drawings near bridge walkway	HR(S)
7.2	Fire Walls & Party Walls	N/A	HR(S)
7.3	Fire Separation Assemblies:		
7.3.1	Fire enclosure of exits	2	HR(S)
7.3.2	Shafts	2	HR(S)
7.3.3	Mixed Use Separation	N/A	HR(S)
7.3.4	Other Separation Assemblies:	1, at portion of atrium to reduce smoke control volume	HR(S)
7.4	Fire Partitions	N/A	HR(S)
7.5	Dwelling Unit Separations	N/A	HR(S)
7.6	Smoke Barriers	N/A	HR(S)
7.7	Other Non bearing Partitions	0	HR(S)
7.8	Interior Bearing Walls, Bearing Partitions, Columns, Girders, Trusses and Framing:		
7.8.1	Supporting more than one floor	2 & 0	HS(S)
7.8.2	Supporting one floor only or a roof:	2 & 0	HR(S)
7.8.3	Structural Members Supporting Wall	2	HR(S)
7.9	Floor Construction Including Beams	2 & 0	HR(S)
7.10	Roof Construction	0	HR(S)
7.10.1	* 15 ft. or less:	0	HR(S)

7.10.2	* 15 ft. or more:	0	HR(S)
7.10.3	* 20 ft. or more:	0	HR(S)

* Height to lowest member.

8.0 FIRE PROTECTION SYSTEM:

8.1	Fire Suppression System	Yes
8.2	Alarms	Yes
8.3	Automatic Fire Detection System	Limited
8.4	Smoke Control System	Atrium
8.5	Supervision	Yes

CONNECTICUT STATE FIRE SAFETY CODE

1.0	CLASSIFICATION OF OCCUPANCY:	B
2.0	CONSTRUCTION CLASSIFICATION:	IIB
3.0	MINIMUM CONSTRUCTION TYPE REQUIRED;	N/A
4.0	ACTUAL CONSTRUCTION TYPE PROVIDED:	IIB
5.0	NOTIFICATION/ALARMS:	Horn / Strobe
6.0	DETECTION:	Limited
7.0	EXTINGUISHMENT REQUIREMENTS:	Provided

AREA AND OCCUPANT SUMMARY & PLUMBING FIXTURE SUMMARY

Area and Occupant Summary	Area (GSF)	Occupants for Egress Components
Lower Level	24,927	210
Ground Floor	22,480	277
2nd Floor	22,245	376
3rd Floor	22,975	308
Subtotal (Conditioned)	92,627	
4th Floor Mechanical Attic (Unconditioned)	10,981	38
TOTAL (Conditioned + Unconditioned)	103,608	1209
Rooms that exceed 50 Occupants	Occupants	
S10a Classroom 210	56	
S10b Classroom 222	56	
Note: All areas are to the inside face of the exterior walls		

Plumbing Fixtures					
Occupancy	Male WC	Female WC	Lavatories	Drinking Fountains	Service Sink
B	1/25 for the first 50, then 1/50	1/25 for the first 50, then 1/50	1/25 for the first 40, then 1/80	1/100	1 every other floor
Actual	11	11	16	12	7

Code modification M-676-12(A) has been approved permitting the plumbing fixture counts to be based on 800 occupants instead of the the actual occupant load.

drawing title: CODE INFORMATION

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

volume: 1 of 2

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

date: 11-21-2012
scale: 12" = 1'-0"
drawn by: AS
approved by: RM/JBR

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no.: 1393 project no.: BI-RS-283

drawing no.: G100

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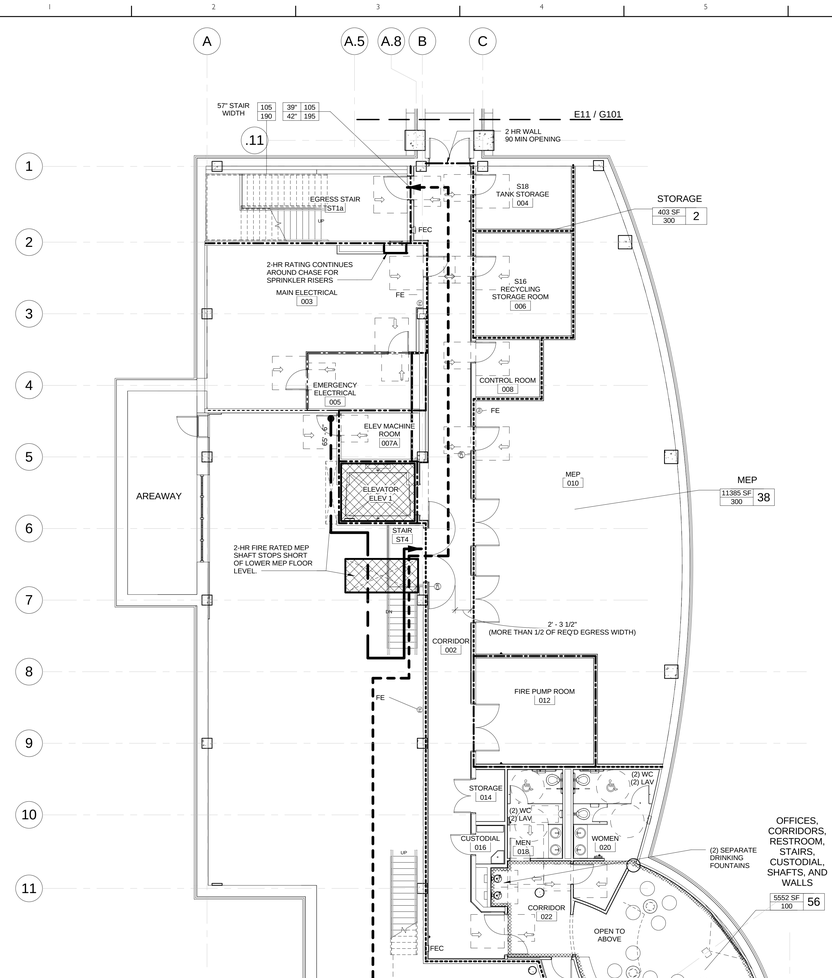
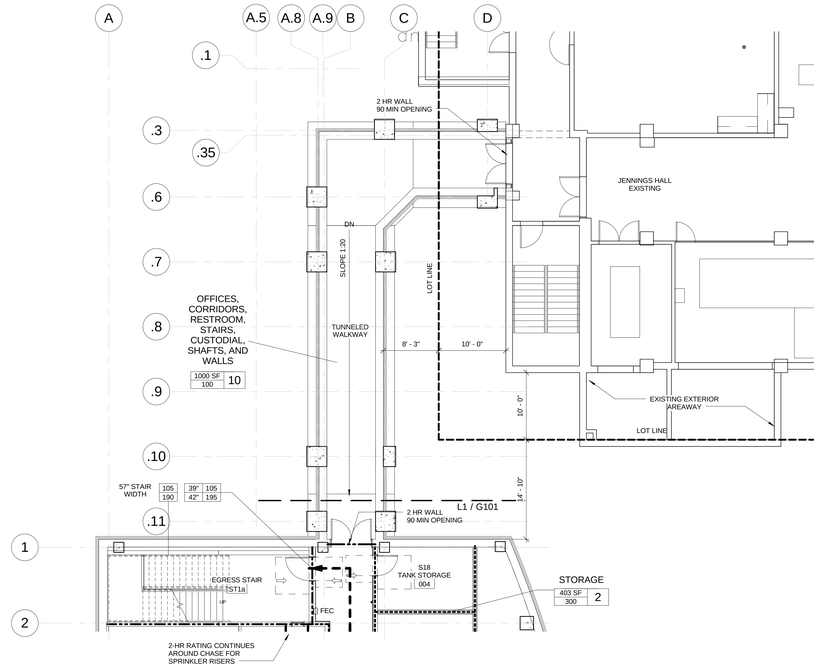
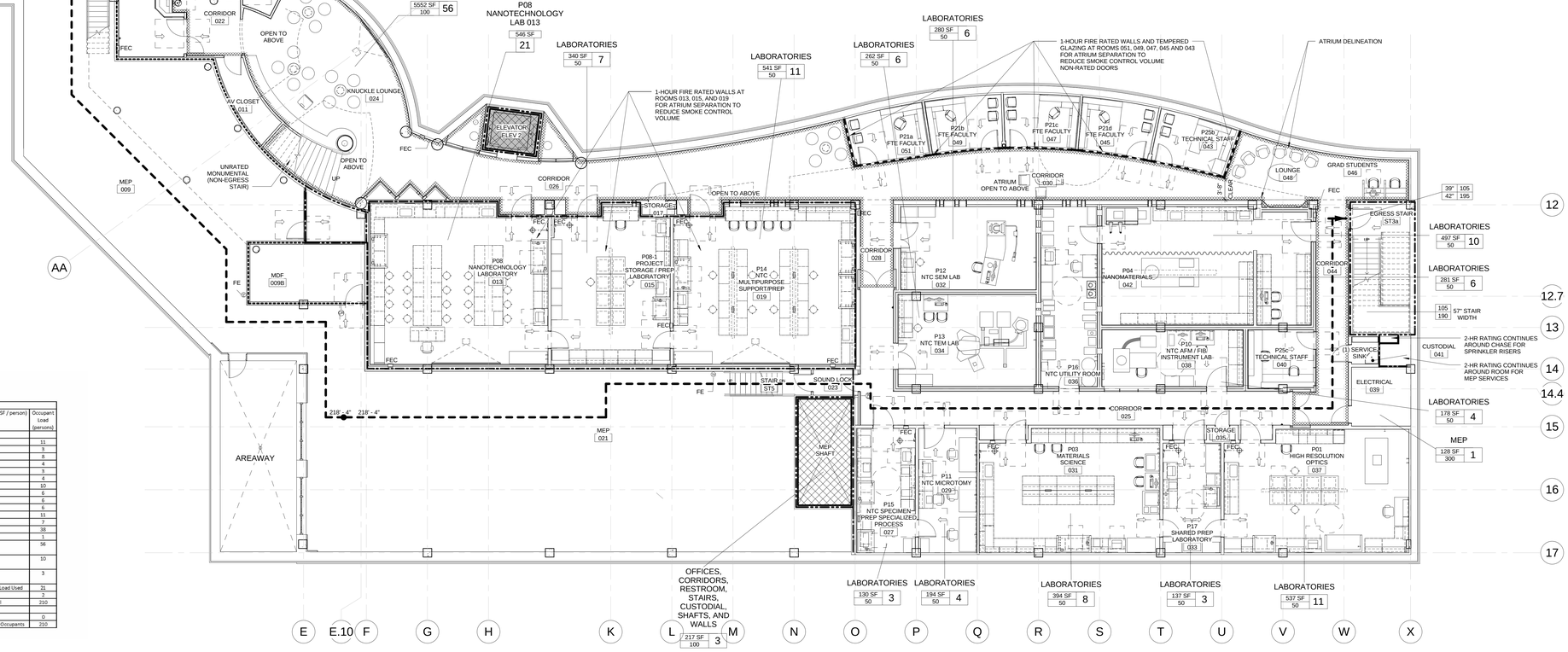




E11 LOWER LEVEL CODE PLAN - TUNNEL TO JENNINGS
1/8" = 1'-0"

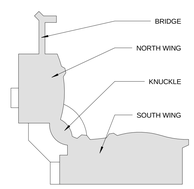
PROJECT NORTH



L1 PARTIAL LOWER LEVEL CODE PLAN
1/8" = 1'-0"

PROJECT NORTH

OCCUPANCY SCHEDULE - LOWER LEVEL				
Occupancy	Area (SF)		Occupancy Factor (SF / person)	Occupant Load (persons)
LABORATORIES	537	NSF	50	11
LABORATORIES	137	NSF	50	3
LABORATORIES	394	NSF	50	8
LABORATORIES	194	NSF	50	4
LABORATORIES	130	NSF	50	3
LABORATORIES	178	NSF	50	4
LABORATORIES	497	NSF	50	10
LABORATORIES	281	NSF	50	6
LABORATORIES	262	NSF	50	6
LABORATORIES	280	NSF	50	6
LABORATORIES	541	NSF	50	11
LABORATORIES	340	NSF	50	7
MEP	11,385	GSF	300	38
MEP	128	GSF	300	1
OFFICES, CORRIDORS, RESTROOM, STAIRS, CUSTODIAL, SHAFTS, AND WALLS	5,552	GSF	100	56
OFFICES, CORRIDORS, RESTROOM, STAIRS, CUSTODIAL, SHAFTS, AND WALLS	1,000	GSF	100	10
OFFICES, CORRIDORS, RESTROOM, STAIRS, CUSTODIAL, SHAFTS, AND WALLS	217	GSF	100	3
P08 NANOTECHNOLOGY LAB 013	546	NSF	Actual Occupant Load Used	21
STORAGE	403	GSF	300	2
Subtotal:	23,002	SF	Subtotal:	210
FIXED EQUIPMENT IN LABORATORIES	1,925	NSF	N/A	0
TOTAL SF TO THE INSIDE FACE OF EXTERIOR WALLS	24,927	SF	Total Lower Level Occupants	210



CODE PLAN LEGEND

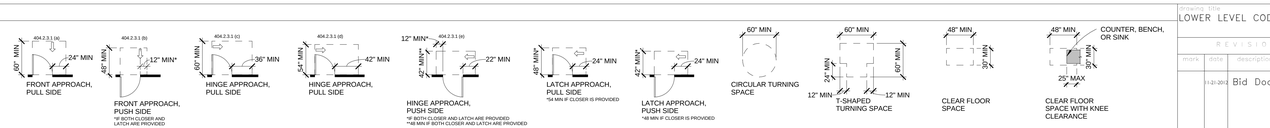
- ONE HOUR RATED CONSTRUCTION
- TWO HOUR RATED CONSTRUCTION
- SMOKE PARTITION
- SMOKE BARRIER
- ATRIUM SEPARATION - TEMPERED GLAZING
- X' - X" MAXIMUM TRAVEL DISTANCE
- X' - X" DEAD END TRAVEL DISTANCE
- X' - X" COMMON PATH TRAVEL DISTANCE
- TWO HOUR RATED SHAFT CONSTRUCTION, ALL SIDES INCLUDED, TOP AND BOTTOM WHERE REQUIRED
- EXIT TO GRADE
- MAIN BUILDING ENTRANCE
- BUILDING ENTRANCE
- ACCESSIBLE ROUTE
- AD — ATRIUM SMOKE EVACUATION DOORS WITH AUTOMATIC OPERATORS
- AW — ATRIUM SMOKE EVACUATION WINDOWS WITH AUTOMATIC ACTUATORS
- ATRIUM DELINEATION
- B — ACCESSIBLE ENTRANCE WITH AUTOMATIC OPERATOR
- FEC — FIRE EXTINGUISHER CABINET AND EXTINGUISHER
- FE — FIRE EXTINGUISHER ON WALL MOUNTED BRACKET
- ACCESSIBLE RESTROOM, RESTROOM STALL, CASEWORK, MILLWORK, OR FEATURE.

AREA OCCUPANCY USING LOAD FACTORS
sq.ft / factor = AREA IN SQ FT / OCCUPANCY LOAD IN PERSONS LOAD FACTOR

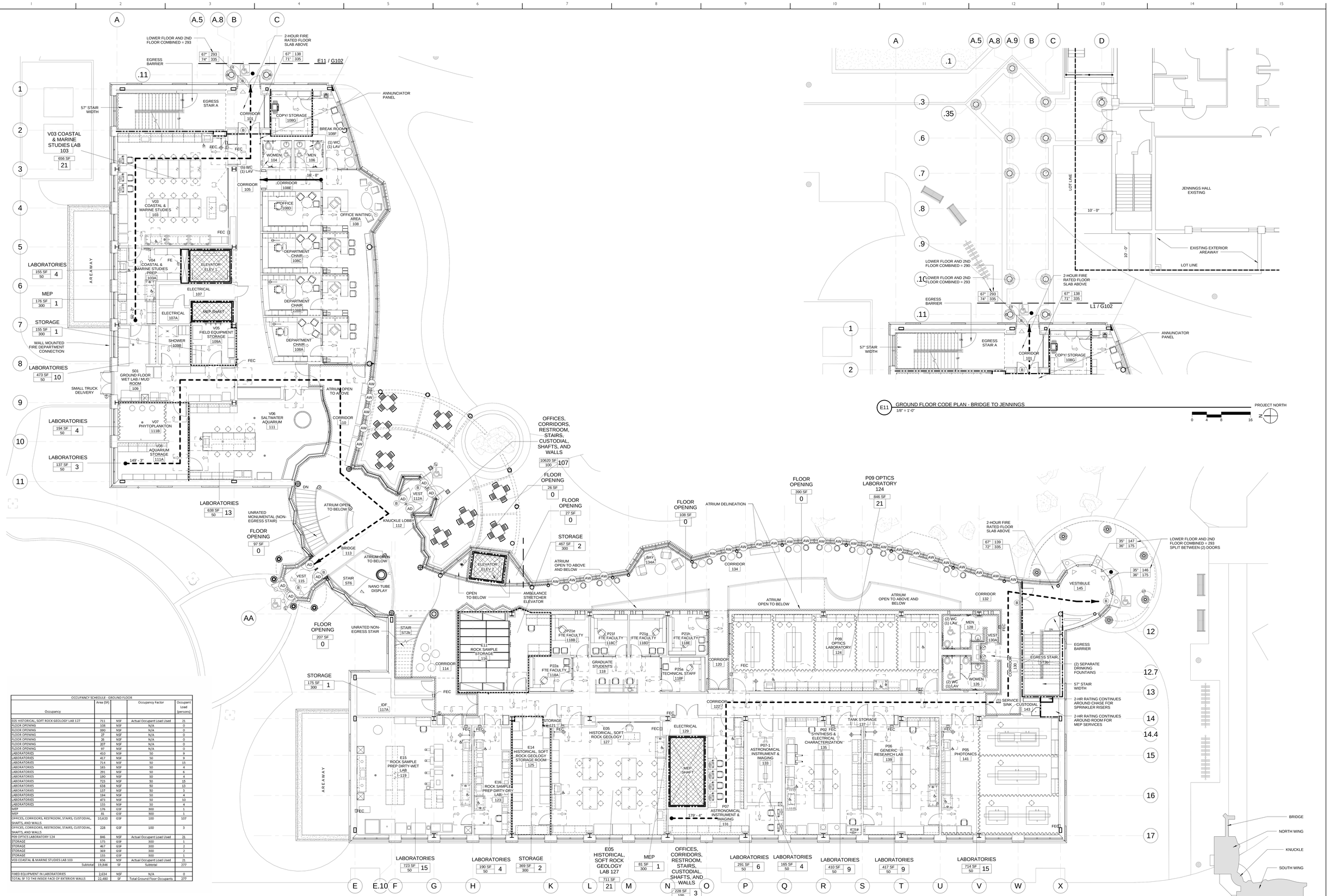
AREA OCCUPANCY
sq.ft / X = AREA IN SQ FT / OCCUPANCY LOAD IN PERSONS

EXIT CAPACITY
X / X = ACTUAL EGRESS OCCUPANCY OF STAIR / MAX ALLOWABLE EGRESS CAPACITY OF STAIR

CLEAR WIDTH OF DOOR (INCHES)
X X / X X = ACTUAL EGRESS OCCUPANCY OF DOOR / MAX ALLOWABLE EGRESS CAPACITY OF DOOR / WIDTH OF DOOR (INCHES)



drawing title	LOWER LEVEL CODE PLAN
REVISIONS	
mark / date / description	11-21-2012 Bid Documents
DRAWING PREPARED BY	Centerbrook Architects and Planners, LLP, 67 Main Street, Post Office Box 955, Centerbrook, Connecticut 06409-0955
project	SCSU NEW ACADEMIC LABORATORY BUILDING
CAD no.	1393
project no.	BI-RS-283
STATE OF CONNECTICUT, DEPARTMENT OF CONSTRUCTION SERVICES	
sheet	1 of 2
date	11-21-2012
scale	As indicated
drawn by	AS/EL
checked by	RMJ/BR
drawing no.	G101



E11 GROUND FLOOR CODE PLAN - BRIDGE TO JENNINGS
1/8" = 1'-0"

L1 PARTIAL GROUND FLOOR CODE PLAN
1/8" = 1'-0"

OCCUPANCY SCHEDULE - GROUND FLOOR				
Occupancy	Area (SF)		Occupancy Factor	Occupant Load (persons)
E05 HISTORICAL, SOFT ROCK GEOLOGY LAB 127	711	NSF	Actual Occupant Load Used	21
FLOOR OPENING	108	NSF	N/A	0
FLOOR OPENING	390	NSF	N/A	0
FLOOR OPENING	27	NSF	N/A	0
FLOOR OPENING	26	NSF	N/A	0
FLOOR OPENING	207	NSF	N/A	0
FLOOR OPENING	97	NSF	N/A	0
LABORATORIES	410	NSF	50	9
LABORATORIES	417	NSF	50	9
LABORATORIES	714	NSF	50	15
LABORATORIES	165	NSF	50	4
LABORATORIES	291	NSF	50	6
LABORATORIES	190	NSF	50	4
LABORATORIES	723	NSF	50	15
LABORATORIES	638	NSF	50	13
LABORATORIES	137	NSF	50	3
LABORATORIES	194	NSF	50	4
LABORATORIES	473	NSF	50	10
LABORATORIES	155	NSF	50	4
MEP	176	GSF	300	1
MEP	81	GSF	300	1
OFFICES, CORRIDORS, RESTROOM, STAIRS, CUSTODIAL, SHAFTS, AND WALLS	10,620	GSF	100	107
OFFICES, CORRIDORS, RESTROOM, STAIRS, CUSTODIAL, SHAFTS, AND WALLS	228	GSF	100	3
P09 OPTICS LABORATORY 124	846	NSF	Actual Occupant Load Used	21
STORAGE	175	GSF	300	1
STORAGE	467	GSF	300	2
STORAGE	369	GSF	300	2
STORAGE	155	GSF	300	1
V03 COASTAL & MARINE STUDIES LAB 103	656	NSF	Actual Occupant Load Used	21
Subtotal	19,846	SF	Subtotal	277
FIXED EQUIPMENT IN LABORATORIES	2,634	NSF	N/A	0
TOTAL SF TO THE INSIDE FACE OF EXTERIOR WALLS	22,480	SF	Total Ground Floor Occupants	277

CODE PLAN LEGEND

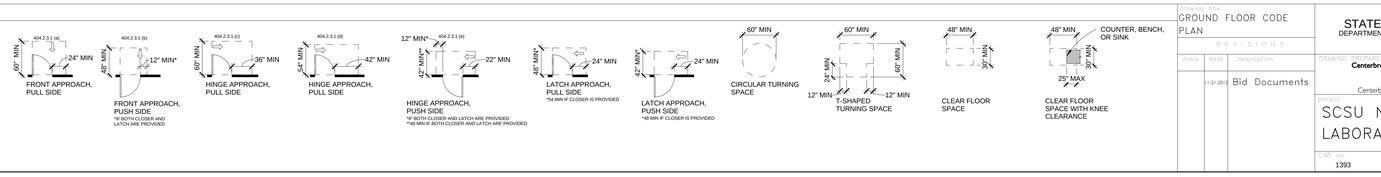
- ONE HOUR RATED CONSTRUCTION
- TWO HOUR RATED CONSTRUCTION
- SMOKE PARTITION
- SMOKE BARRIER
- ATRIUM SEPARATION - TEMPERED GLAZING
- X' - X" MAXIMUM TRAVEL DISTANCE
- X' - X" DEAD END TRAVEL DISTANCE
- X' - X" COMMON PATH TRAVEL DISTANCE
- TWO HOUR RATED SHAFT CONSTRUCTION, ALL SIDES INCLUDED, TOP AND BOTTOM WHERE REQUIRED
- EXIT TO GRADE
- MAIN BUILDING ENTRANCE
- BUILDING ENTRANCE
- ACCESSIBLE ROUTE
- AD ATRIUM SMOKE EVACUATION DOORS WITH AUTOMATIC OPERATORS
- AW ATRIUM SMOKE EVACUATION WINDOWS WITH AUTOMATIC ACTUATORS
- ATRIUM DELINEATION
- B ACCESSIBLE ENTRANCE WITH AUTOMATIC OPERATOR
- FEC FIRE EXTINGUISHER CABINET AND EXTINGUISHER
- FE FIRE EXTINGUISHER ON WALL MOUNTED BRACKET
- ACCESSIBLE RESTROOM, RESTROOM STALL, CASEWORK, MILLWORK, OR FEATURE.

AREA OCCUPANCY USING LOAD FACTORS
sq.ft / factor = X — AREA IN SQ FT / OCCUPANCY LOAD IN PERSONS — LOAD FACTOR

AREA OCCUPANCY
sq.ft / X — AREA IN SQ FT / OCCUPANCY LOAD IN PERSONS

EXIT CAPACITY
X / X — ACTUAL EGRESS OCCUPANCY OF STAIR / MAX ALLOWABLE EGRESS CAPACITY OF STAIR

X / X — CLEAR WIDTH OF DOOR (INCHES)
X / X — ACTUAL EGRESS OCCUPANCY OF DOOR / MAX ALLOWABLE EGRESS CAPACITY OF DOOR
WIDTH OF DOOR (INCHES)



drawing title: GROUND FLOOR CODE PLAN

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

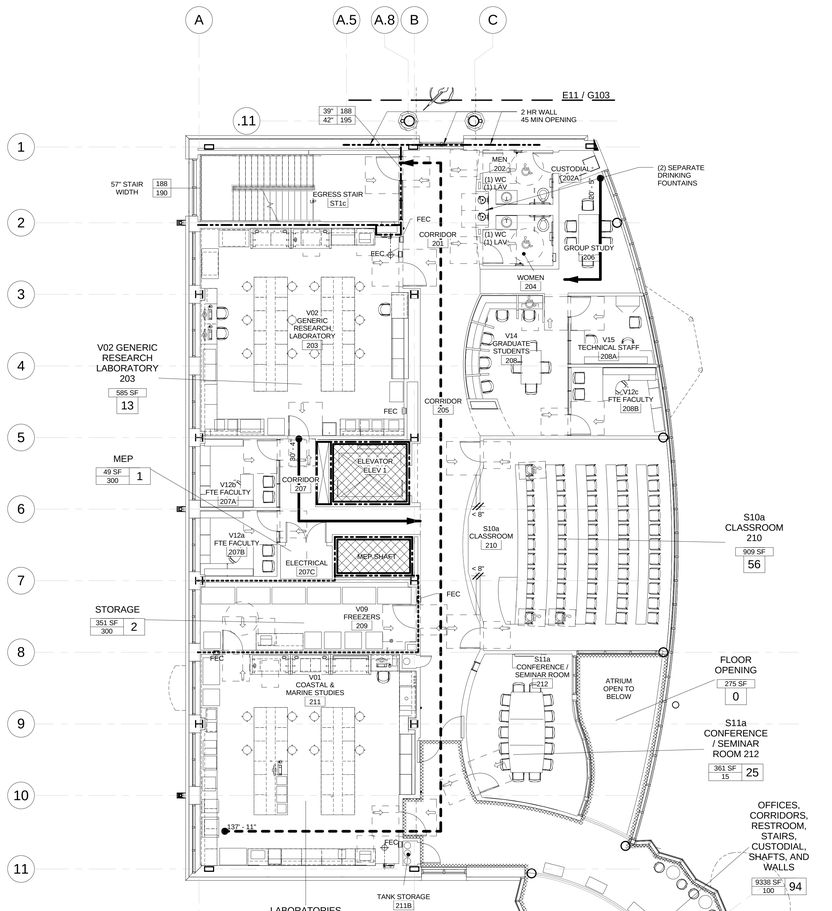
STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

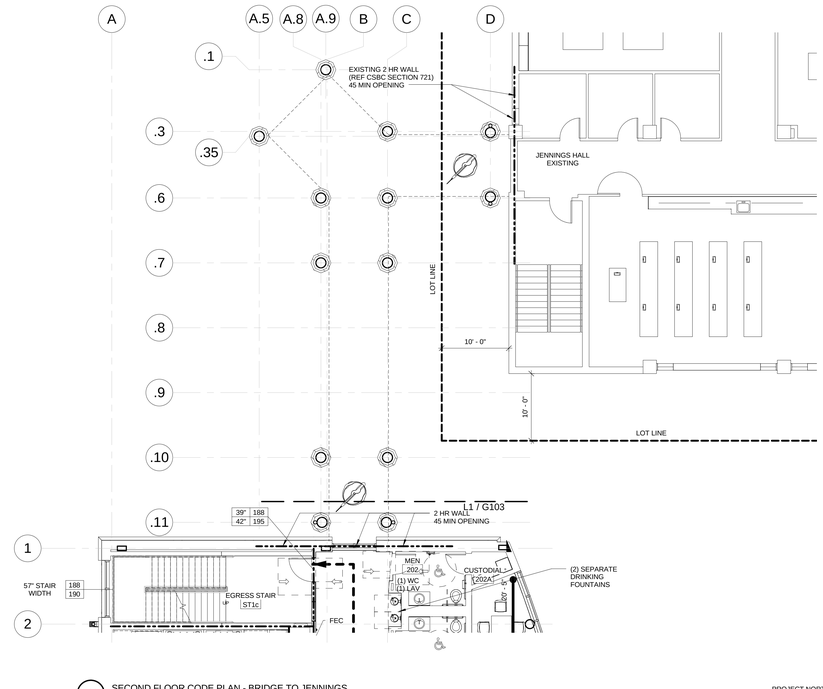
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD file: 1393 | project no.: BI-RS-283

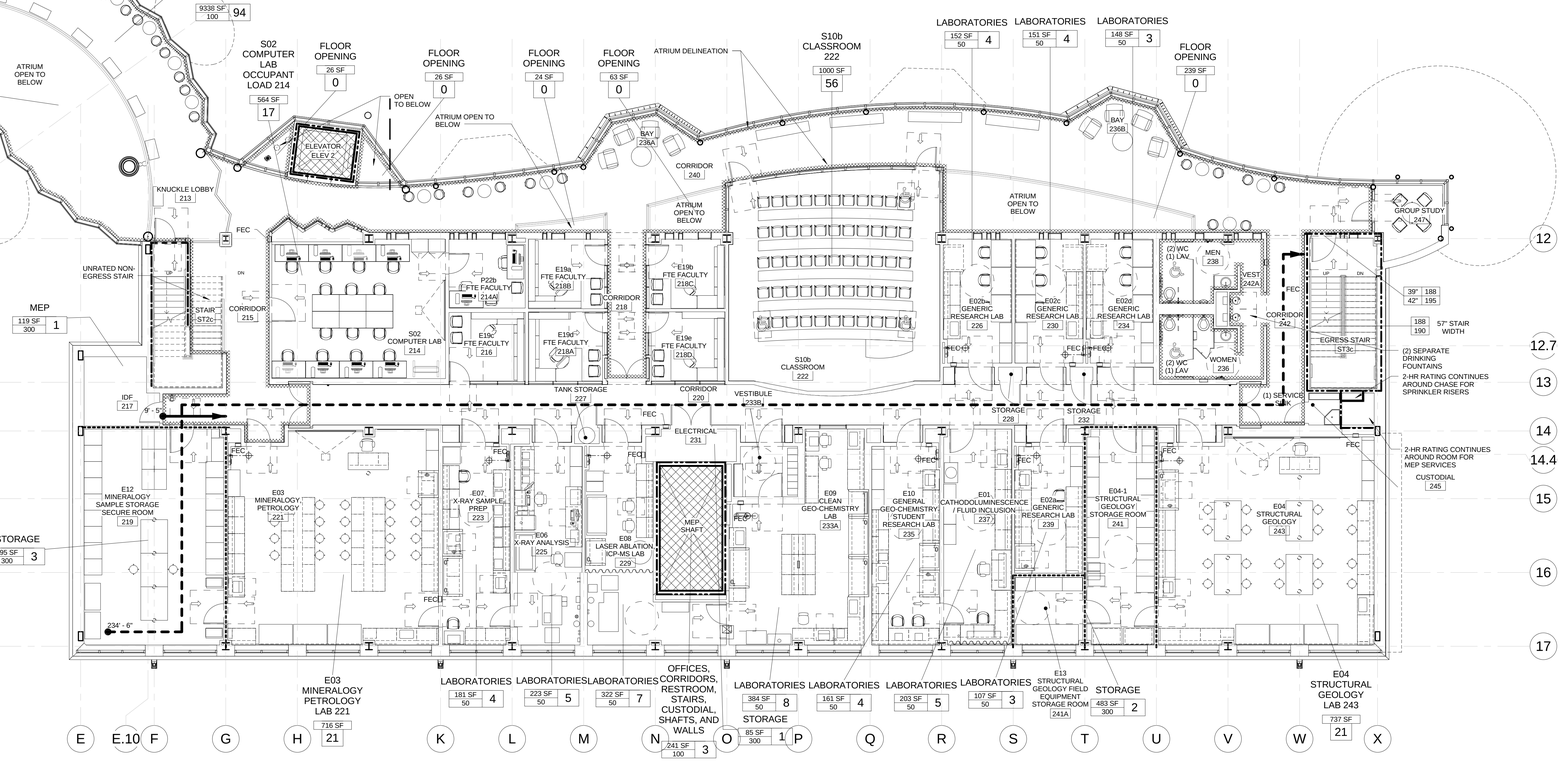
volume: 1 of 2
date: 11-21-2012
scale: As indicated
drawn by: AS/EL
checked by: RMJ/BR
drawing no.: G102





E11 SECOND FLOOR CODE PLAN - BRIDGE TO JENNINGS
1/8" = 1'-0"

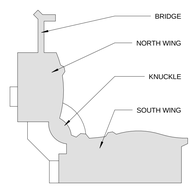
PROJECT NORTH
0 4 8 16



OCCUPANCY SCHEDULE - SECOND FLOOR				
Occupancy	Area (SF)		Occupancy Factor (SF / person)	Occupant Load (persons)
E03 MINERALOGY PETROLOGY LAB 221	716	NSF	Actual Occupant Load Used	21
E04 STRUCTURAL GEOLOGY LAB 243	737	NSF	Actual Occupant Load Used	21
FLOOR OPENING	26	NSF	N/A	0
FLOOR OPENING	26	NSF	N/A	0
FLOOR OPENING	239	NSF	N/A	0
FLOOR OPENING	63	NSF	N/A	0
FLOOR OPENING	24	NSF	N/A	0
FLOOR OPENING	275	NSF	N/A	0
FLOOR OPENING	576	NSF	N/A	0
LABORATORIES	107	NSF	50	3
LABORATORIES	203	NSF	50	5
LABORATORIES	161	NSF	50	4
LABORATORIES	384	NSF	50	8
LABORATORIES	322	NSF	50	7
LABORATORIES	223	NSF	50	5
LABORATORIES	181	NSF	50	4
LABORATORIES	148	NSF	50	3
LABORATORIES	151	NSF	50	4
LABORATORIES	152	NSF	50	4
LABORATORIES	601	NSF	50	13
MEP	119	GSF	300	1
MEP	49	GSF	300	1
OFFICES, CORRIDORS, RESTROOM, STAIRS, CUSTODIAL, SHAFTS, AND WALLS	9,338	GSF	100	94
OFFICES, CORRIDORS, RESTROOM, STAIRS, CUSTODIAL, SHAFTS, AND WALLS	241	GSF	100	3
S02 COMPUTER LAB OCCUPANT LOAD 214	564	NSF	Actual Occupant Load Used	17
S10a CLASSROOM 210	909	NSF	Actual Occupant Load Used	56
S10b CLASSROOM 222	1,000	NSF	Actual Occupant Load Used	56
S11a CONFERENCE / SEMINAR ROOM 212	361	NSF	15	25
STORAGE	85	GSF	300	1
STORAGE	695	GSF	300	3
STORAGE	351	GSF	300	2
STORAGE	483	GSF	300	2
V02 GENERIC RESEARCH LABORATORY 203	585	NSF	Actual Occupant Load Used	13
Subtotal	20,095	SF	Subtotal	376
FIXED EQUIPMENT IN LABORATORIES	2,150	NSF	N/A	0
TOTAL SF TO THE INSIDE FACE OF EXTERIOR WALLS	22,245	SF	Total Second Floor Occupants	376

L1 PARTIAL SECOND FLOOR CODE PLAN
1/8" = 1'-0"

PROJECT NORTH
0 4 8 16



CODE PLAN LEGEND

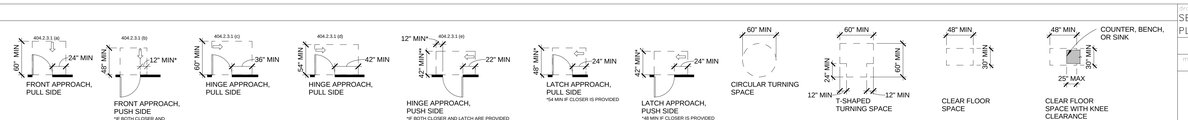
- ONE HOUR RATED CONSTRUCTION
- TWO HOUR RATED CONSTRUCTION
- SMOKE PARTITION
- SMOKE BARRIER
- ATRIUM SEPARATION - TEMPERED GLAZING
- X'-X" MAXIMUM TRAVEL DISTANCE
- X'-X" DEAD END TRAVEL DISTANCE
- X'-X" COMMON PATH TRAVEL DISTANCE
- TWO HOUR RATED SHAFT CONSTRUCTION, ALL SIDES INCLUDED, TOP AND BOTTOM WHERE REQUIRED
- EXIT TO GRADE
- MAIN BUILDING ENTRANCE
- BUILDING ENTRANCE
- ACCESSIBLE ROUTE
- ATRIUM SMOKE EVACUATION DOORS WITH AUTOMATIC OPERATORS (AD)
- ATRIUM SMOKE EVACUATION WINDOWS WITH AUTOMATIC ACTUATORS (AW)
- ATRIUM DELINEATION
- (B) ACCESSIBLE ENTRANCE WITH AUTOMATIC OPERATOR
- FEC FIRE EXTINGUISHER CABINET AND EXTINGUISHER
- FE FIRE EXTINGUISHER ON WALL MOUNTED BRACKET
- ACCESSIBLE RESTROOM, RESTROOM STALL, CASEWORK, MILLWORK, OR FEATURE.

AREA OCCUPANCY USING LOAD FACTORS
- sq.ft. / factor = X — AREA IN SQ FT / OCCUPANCY LOAD IN PERSONS = LOAD FACTOR

AREA OCCUPANCY
- sq.ft. / X — AREA IN SQ FT / OCCUPANCY LOAD IN PERSONS

EXIT CAPACITY
- X / X — ACTUAL EGRESS OCCUPANCY OF STAIR / MAX ALLOWABLE EGRESS CAPACITY OF STAIR

- X X — CLEAR WIDTH OF DOOR (INCHES)
- X X — ACTUAL EGRESS OCCUPANCY OF DOOR / MAX ALLOWABLE EGRESS CAPACITY OF DOOR
- X X — WIDTH OF DOOR (INCHES)



DRAWING TITLE: SECOND FLOOR CODE PLAN

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

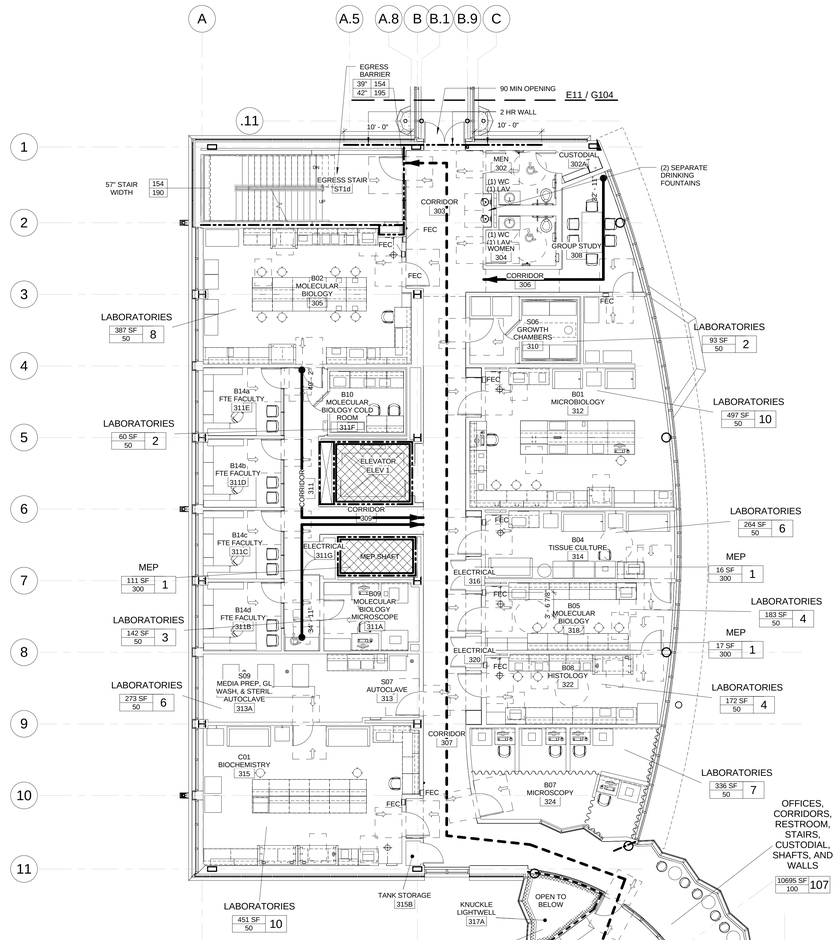
STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

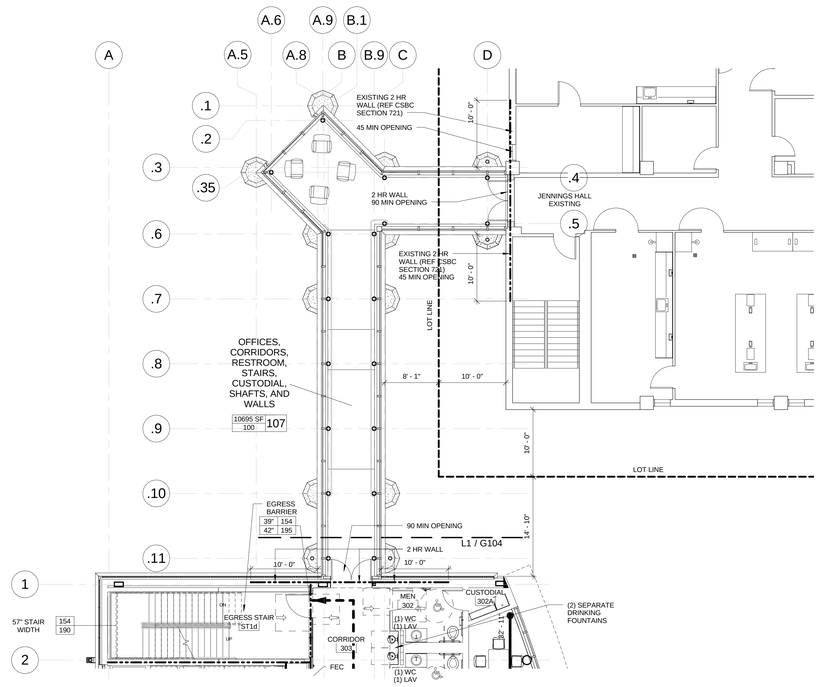
DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

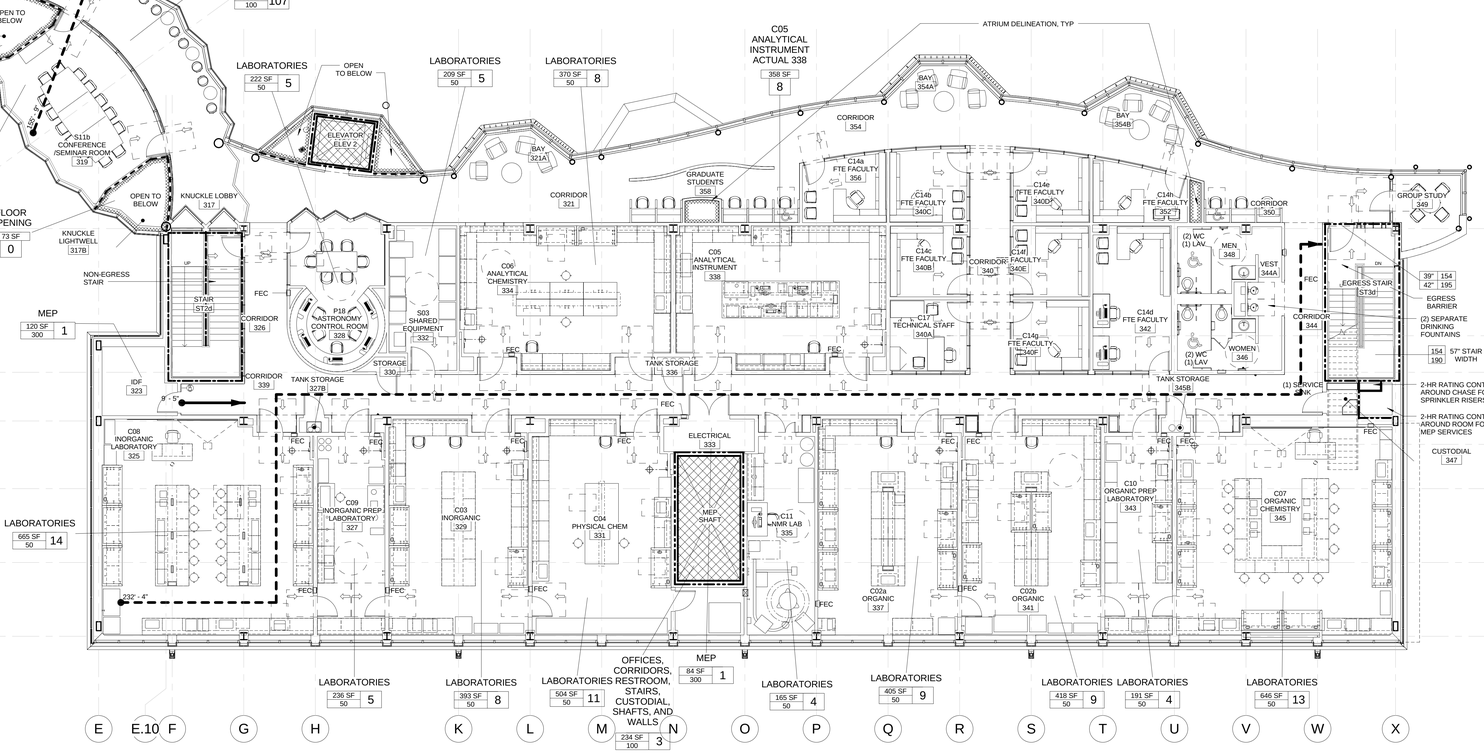
sheet no. 1 of 2
date 11-21-2012
scale As indicated
drawn by AS/EL
checked by RMJ/BR
drawing no. G103





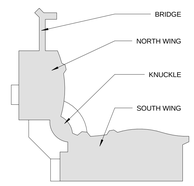
E11 THIRD FLOOR CODE PLAN - BRIDGE TO JENNINGS
1/8" = 1'-0"

PROJECT NORTH



L1 PARTIAL THIRD FLOOR CODE PLAN
1/8" = 1'-0"

PROJECT NORTH



OCCUPANCY SCHEDULE - THIRD FLOOR				
Occupancy	Area (SF)		Occupancy Factor (SF / person)	Occupant Load (persons)
C05 ANALYTICAL INSTRUMENT ACTUAL 338	358	NSF	Actual Occupant Load Used	8
FLOOR OPENING	74	NSF	N/A	0
FLOOR OPENING	73	NSF	N/A	0
LABORATORIES	665	NSF	50	14
LABORATORIES	646	NSF	50	13
LABORATORIES	191	NSF	50	4
LABORATORIES	418	NSF	50	9
LABORATORIES	405	NSF	50	9
LABORATORIES	165	NSF	50	4
LABORATORIES	504	NSF	50	11
LABORATORIES	393	NSF	50	8
LABORATORIES	236	NSF	50	5
LABORATORIES	370	NSF	50	8
LABORATORIES	209	NSF	50	5
LABORATORIES	222	NSF	50	5
LABORATORIES	451	NSF	50	10
LABORATORIES	273	NSF	50	6
LABORATORIES	142	NSF	50	3
LABORATORIES	60	NSF	50	2
LABORATORIES	387	NSF	50	8
LABORATORIES	93	NSF	50	2
LABORATORIES	497	NSF	50	10
LABORATORIES	264	NSF	50	6
LABORATORIES	183	NSF	50	4
LABORATORIES	172	NSF	50	4
LABORATORIES	336	NSF	50	7
MEP	120	GSF	300	1
MEP	84	GSF	300	1
MEP	111	GSF	300	1
MEP	16	GSF	300	1
MEP	17	GSF	300	1
OFFICES, CORRIDORS, RESTROOM, STAIRS, CUSTODIAL, SHAFTS, AND WALLS	10,695	GSF	100	107
OFFICES, CORRIDORS, RESTROOM, STAIRS, CUSTODIAL, SHAFTS, AND WALLS	234	GSF	100	3
S11b CONFERENCE / SEMINAR ROOM 319	410	NSF	15	28
Subtotal	19,474	SF	Subtotal	308
FIXED EQUIPMENT IN LABORATORIES	3,501	NSF	N/A	0
TOTAL SF TO THE INSIDE FACE OF EXTERIOR WALLS	22,975	SF	Total Third Floor Occupants	308

CODE PLAN LEGEND

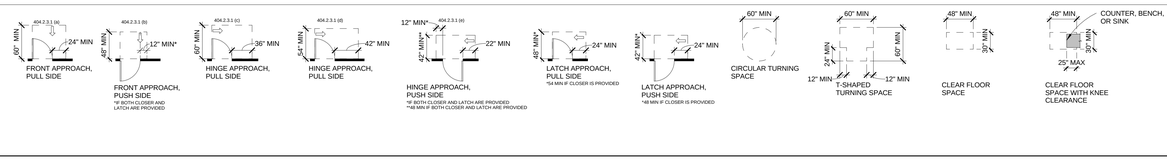
- ONE HOUR RATED CONSTRUCTION
- TWO HOUR RATED CONSTRUCTION
- SMOKE PARTITION
- SMOKE BARRIER
- ATRIUM SEPARATION - TEMPERED GLAZING
- X'-X" MAXIMUM TRAVEL DISTANCE
- X'-X" DEAD END TRAVEL DISTANCE
- X'-X" COMMON PATH TRAVEL DISTANCE
- TWO HOUR RATED SHAFT CONSTRUCTION, ALL SIDES INCLUDED, TOP AND BOTTOM WHERE REQUIRED
- EXIT TO GRADE
- MAIN BUILDING ENTRANCE
- BUILDING ENTRANCE
- ACCESSIBLE ROUTE
- AD ATRIUM SMOKE EVACUATION DOORS WITH AUTOMATIC OPERATORS
- AW ATRIUM SMOKE EVACUATION WINDOWS WITH AUTOMATIC ACTUATORS
- ATRIUM DELINEATION
- B ACCESSIBLE ENTRANCE WITH AUTOMATIC OPERATOR
- FEC FIRE EXTINGUISHER CABINET AND EXTINGUISHER
- FE FIRE EXTINGUISHER ON WALL MOUNTED BRACKET
- ACCESSIBLE RESTROOM, RESTROOM STALL, CASEWORK, MILLWORK, OR FEATURE.

AREA OCCUPANCY USING LOAD FACTORS
- sq.ft / factor = X — AREA IN SQ FT / OCCUPANCY LOAD IN PERSONS — LOAD FACTOR

AREA OCCUPANCY
- sq.ft / X — AREA IN SQ FT / OCCUPANCY LOAD IN PERSONS

EXIT CAPACITY
- X / X — ACTUAL EGRESS OCCUPANCY OF STAIR / MAX ALLOWABLE EGRESS CAPACITY OF STAIR

CLEAR WIDTH OF DOOR (INCHES)
- X X — ACTUAL EGRESS OCCUPANCY OF DOOR / MAX ALLOWABLE EGRESS CAPACITY OF DOOR
- X X — WIDTH OF DOOR (INCHES)



project name: THIRD FLOOR CODE PLAN

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

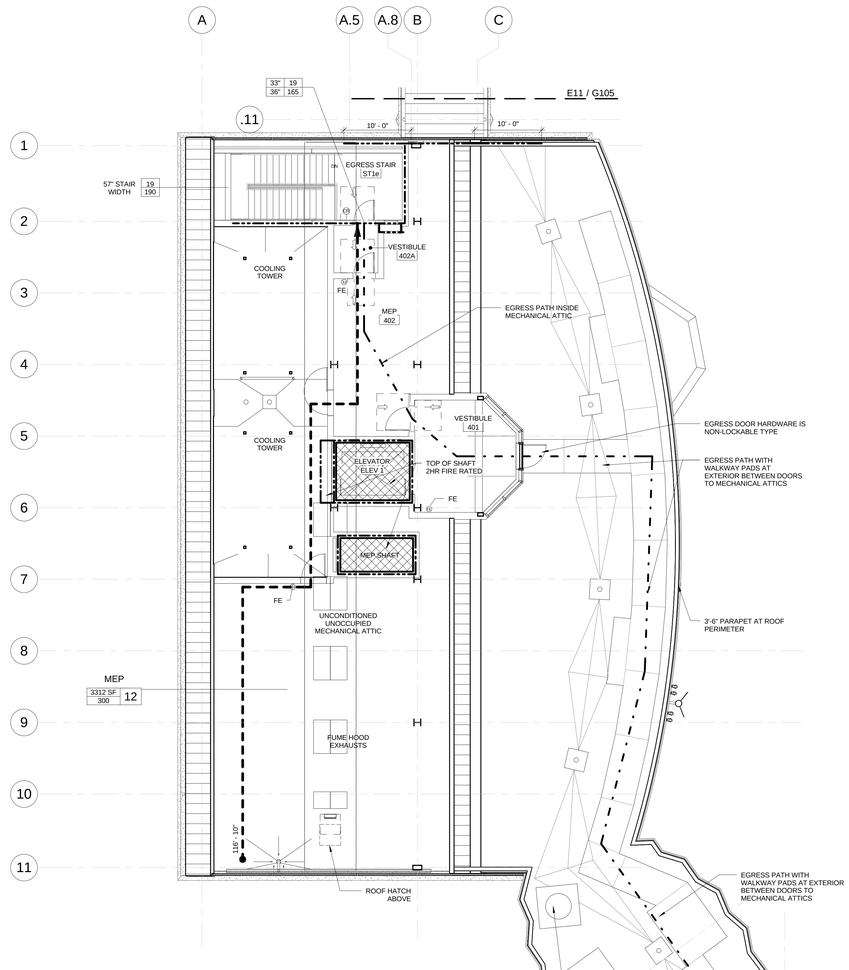
STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

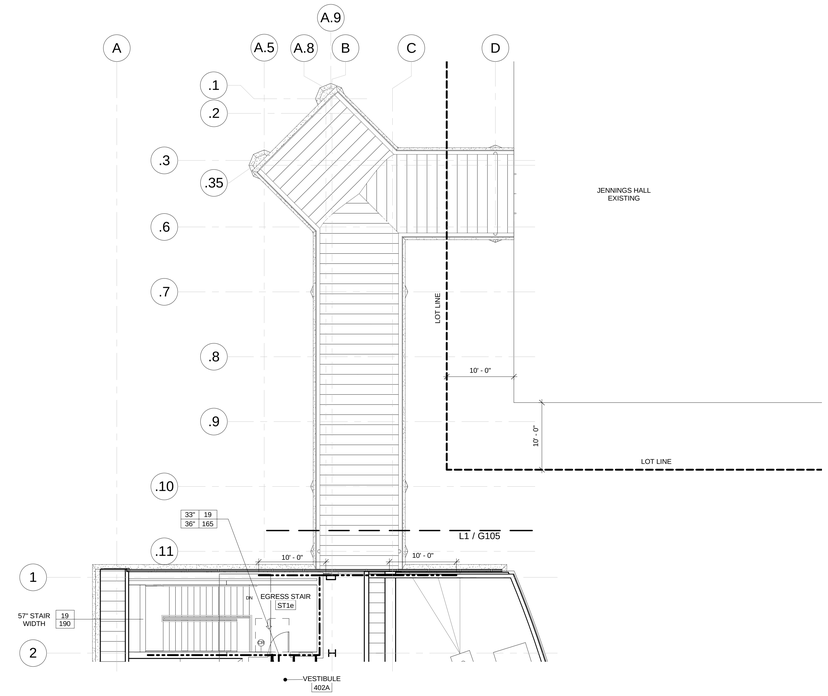
DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

sheet no. 1 of 2
date 11-21-2012
scale As indicated
drawn by AS/EL
checked by RMJ/BR
drawing no. G104





E11 MECHANICAL ATTIC CODE PLAN - BRIDGE TO JENNINGS
1/8" = 1'-0"

PROJECT NORTH
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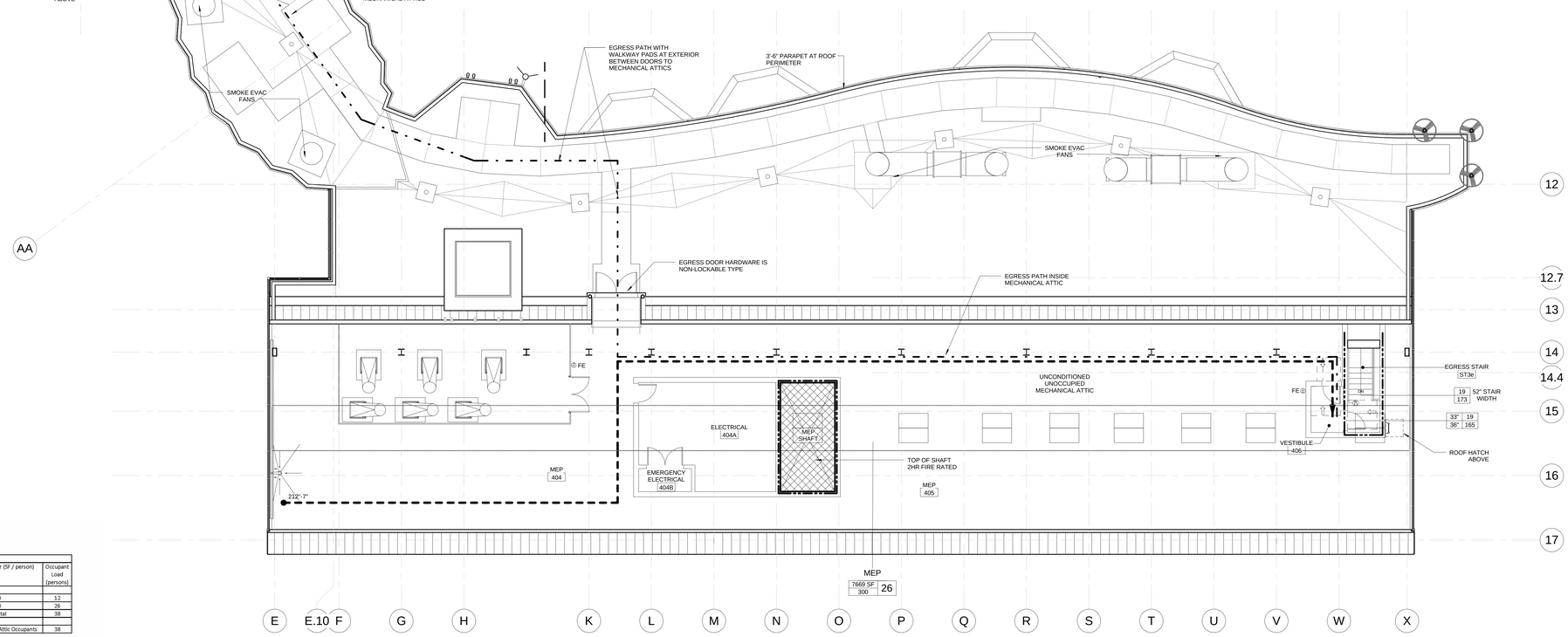

L1 PARTIAL MECHANICAL ATTIC CODE PLAN
1/8" = 1'-0"

PROJECT NORTH
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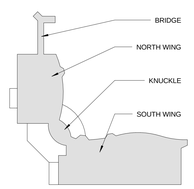

OCCUPANCY SCHEDULE - MECHANICAL ATTIC				
Occupancy	Area (SF)		Occupancy Factor (SF / person)	Occupant Load (persons)
MEP	3,312	GSF	300	12
MEP	7,669	GSF	300	26
Subtotal	10,981	SF	Subtotal	38
TOTAL SF TO THE INSIDE FACE OF EXTERIOR WALLS	10,981	SF	Total Mechanical Attic Occupants	38

CODE PLAN LEGEND

- ONE HOUR RATED CONSTRUCTION
- TWO HOUR RATED CONSTRUCTION
- SMOKE PARTITION
- SMOKE BARRIER
- ATRIUM SEPARATION - TEMPERED GLAZING
- X' - X" MAXIMUM TRAVEL DISTANCE
- X' - X" DEAD END TRAVEL DISTANCE
- X' - X" COMMON PATH TRAVEL DISTANCE
- TWO HOUR RATED SHAFT CONSTRUCTION, ALL SIDES INCLUDED, TOP AND BOTTOM WHERE REQUIRED
- EXIT TO GRADE
- MAIN BUILDING ENTRANCE
- BUILDING ENTRANCE
- ACCESSIBLE ROUTE
- AD ATRIUM SMOKE EVACUATION DOORS WITH AUTOMATIC OPERATORS
- AW ATRIUM SMOKE EVACUATION WINDOWS WITH AUTOMATIC ACTUATORS
- ATRIUM DELINEATION
- B ACCESSIBLE ENTRANCE WITH AUTOMATIC OPERATOR
- FEC FIRE EXTINGUISHER CABINET AND EXTINGUISHER
- FE FIRE EXTINGUISHER ON WALL MOUNTED BRACKET
- ACCESSIBLE RESTROOM, RESTROOM STALL, CASEWORK, MILLWORK, OR FEATURE.

AREA OCCUPANCY USING LOAD FACTORS
sq. ft. / factor = X — AREA IN SQ FT / OCCUPANCY LOAD IN PERSONS — LOAD FACTOR

AREA OCCUPANCY
sq. ft. / X — AREA IN SQ FT / OCCUPANCY LOAD IN PERSONS

EXIT CAPACITY
X / X — ACTUAL EGRESS OCCUPANCY OF STAIR / MAX ALLOWABLE EGRESS CAPACITY OF STAIR

X X / X X — CLEAR WIDTH OF DOOR (INCHES) / ACTUAL EGRESS OCCUPANCY OF DOOR / MAX ALLOWABLE EGRESS CAPACITY OF DOOR / WIDTH OF DOOR (INCHES)

drawing title
FOURTH FLOOR
MECHANICAL ATTIC CODE PLAN

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING
Centerbrook Architects and Planners, LLP
67 Main Street
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Centerbrook, Connecticut 06409-0955

PROJECT
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD file: 1393
project no.: BI-RS-283

volume: 1 of 2
date: 11-21-2012
scale: As indicated
drawn by: AS/EL
approved by: RMU/BR
drawing no.: G105

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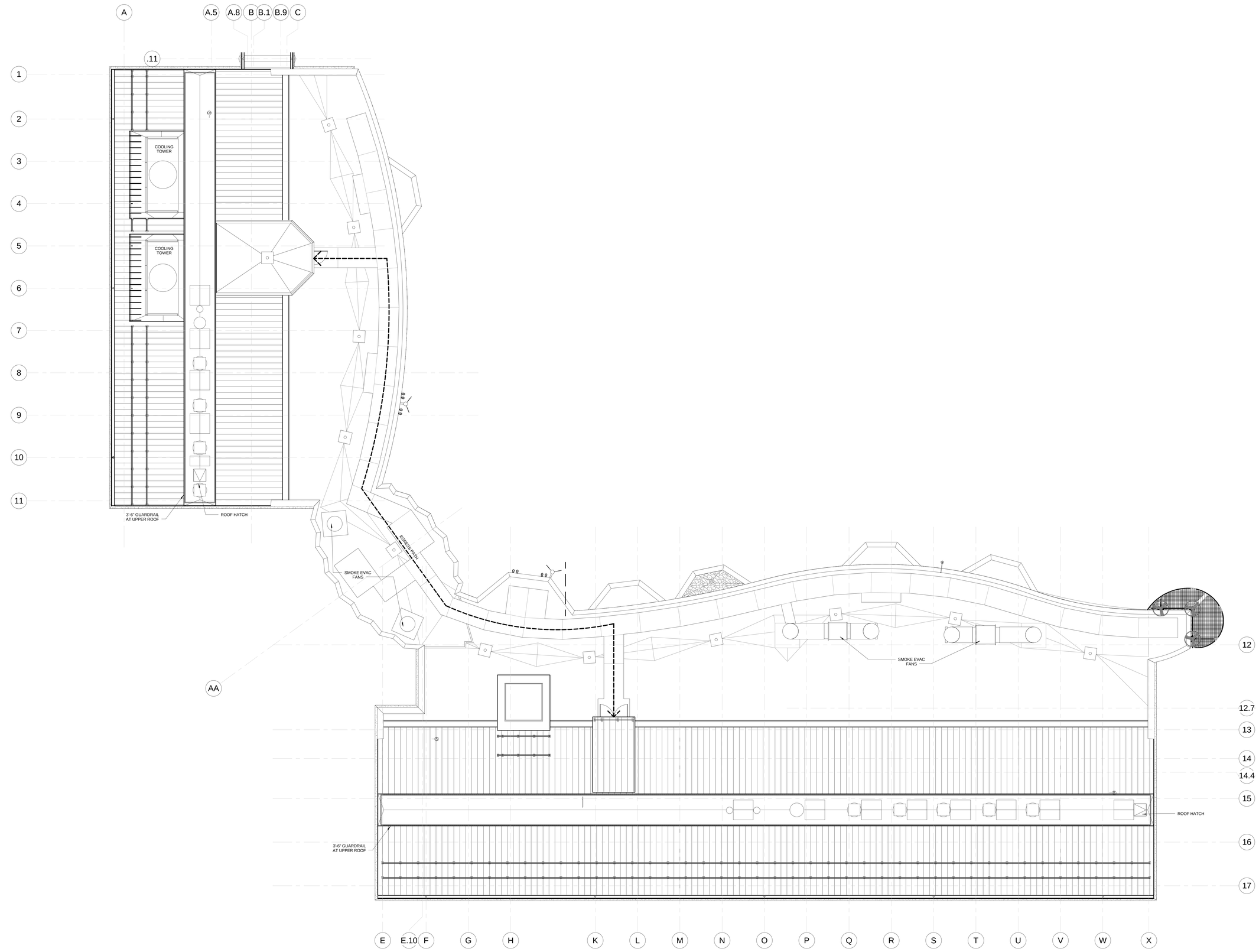
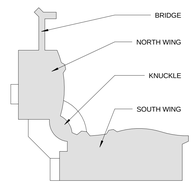


L1 ROOF CODE PLAN
1/8" = 1'-0"



CODE PLAN LEGEND

- ONE HOUR RATED CONSTRUCTION
- TWO HOUR RATED CONSTRUCTION
- SMOKE PARTITION
- SMOKE BARRIER
- ATRIUM SEPARATION - TEMPERED GLAZING
- X'-X" MAXIMUM TRAVEL DISTANCE
- X'-X" DEAD END TRAVEL DISTANCE
- X'-X' COMMON PATH TRAVEL DISTANCE
- TWO HOUR RATED SHAFT CONSTRUCTION, ALL SIDES INCLUDED, TOP AND BOTTOM WHERE REQUIRED
- EXIT TO GRADE
- MAIN BUILDING ENTRANCE
- BUILDING ENTRANCE
- ACCESSIBLE ROUTE
- AD ATRIUM SMOKE EVACUATION DOORS WITH AUTOMATIC OPERATORS
- AW ATRIUM SMOKE EVACUATION WINDOWS WITH AUTOMATIC ACTUATORS
- ATRIUM DELINEATION
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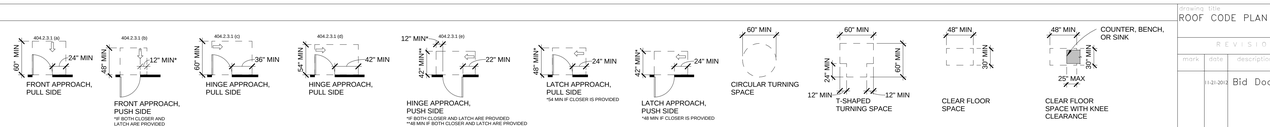
- FE FIRE EXTINGUISHER ON WALL MOUNTED BRACKET
- ACCESSIBLE RESTROOM, RESTROOM STALL, CASEWORK, MILLWORK, OR FEATURE.

AREA OCCUPANCY USING LOAD FACTORS
sq. ft / factor = X — AREA IN SQ.FT / OCCUPANCY LOAD IN PERSONS LOAD FACTOR
sq. ft / X — AREA OCCUPANCY AREA IN SQ.FT / OCCUPANCY LOAD IN PERSONS

EXIT CAPACITY
X / X — ACTUAL EGRESS OCCUPANCY OF STAIR / MAX ALLOWABLE EGRESS CAPACITY OF STAIR

X X / X X — CLEAR WIDTH OF DOOR (INCHES) / ACTUAL EGRESS OCCUPANCY OF DOOR / MAX ALLOWABLE EGRESS CAPACITY OF DOOR / WIDTH OF DOOR (INCHES)



drawing title: ROOF CODE PLAN

REVISIONS		
mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING: Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD: 1393 | project no.: BI-RS-283

volume: 1 of 2
date: 11-21-2012
scale: As indicated
drawn by: AS/EL
approved by: RMJ/BR
drawing no.: G106

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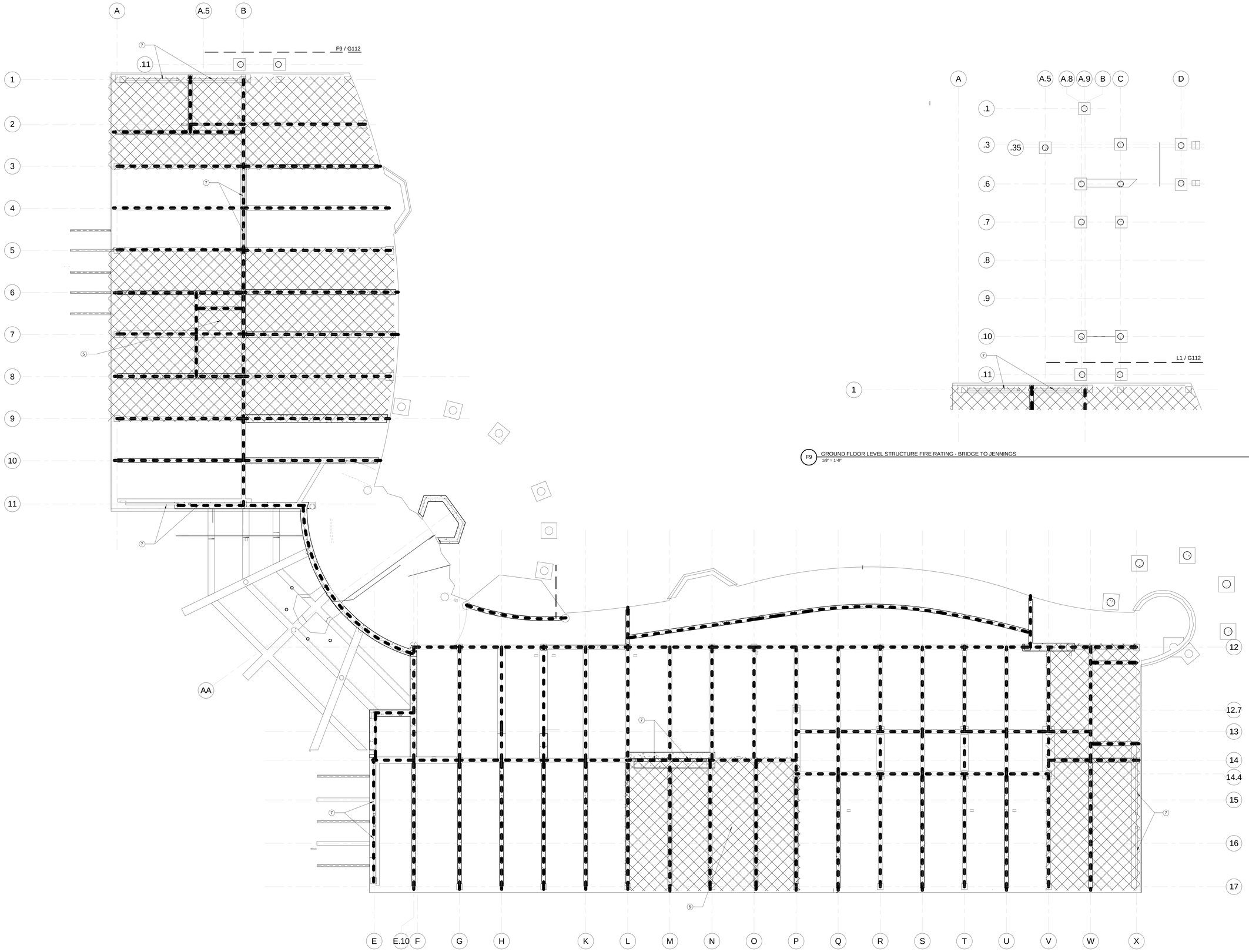

F9 GROUND FLOOR LEVEL STRUCTURE FIRE RATING - BRIDGE TO JENNINGS
1/8" = 1'-0"

L1 GROUND FLOOR LEVEL STRUCTURE FIRE RATING
1/8" = 1'-0"

STRUCTURE FIRE RATING PLAN LEGEND

- ONE HOUR FIRE RATED STRUCTURE - BEAMS AND COLUMNS
- TWO HOUR FIRE RATED STRUCTURE - BEAMS AND COLUMNS
- TWO HOUR FIRE RATED FLOOR WITH TWO HOUR FIRE RATED STRUCTURE - BEAMS AND COLUMNS
- ONE HOUR FIRE RATED FLOOR WITH TWO HOUR FIRE RATED STRUCTURE - BEAMS AND COLUMNS

KEYED NOTES

1. TWO HOUR FIRE RATED CONCRETE FILLED COLUMN - SEE STRUCTURAL
2. STEEL COLUMN WITH 2-HOUR FIRE RATED INTUMESCENT PAINT
3. NON-FIRE RATED CURTAIN WALL SUPPORT
4. STEEL ROD WITH 2-HOUR FIRE RATED INTUMESCENT PAINT
5. 2-HOUR FIRE RATED MEP SHAFT BEARS ON GROUND FLOOR 2-HOUR FIRE RATED STRUCTURE
6. 4TH FLOOR MECHANICAL ATTIC FLOOR STRUCTURE RATED FOR DIAGONAL RODS SUPPORTING 3RD FLOOR CONFERENCE ROOM STRUCTURE
7. 2-HOUR SPRAY FIREPROOFING AT STEEL DIAGONAL LATERAL BRACING.
8. EXPOSED STEEL BEAM AT STAIR WITH 2-HOUR FIRE RATED INTUMESCENT PAINT
9. 2-HOUR SPRAY FIREPROOFING AT STEEL COLUMN.

GENERAL NOTES

1. COLUMNS SHOWN ON PLAN ARE FROM THE FLOOR FRAMING LEVEL SHOWN DOWN TO NEXT FLOOR LEVEL BELOW.
2. ALL STEEL COLUMNS SUPPORTING FIRE RATED BEAMS, GIRDERS OR FLOOR STRUCTURE ARE TO RECEIVE 2-HOUR SPRAY FIREPROOFING UNLESS NOTED AS OTHERWISE WITH KEYNOTES.
3. SEE CODE DRAWING AND PARTITION PLANS FOR FIRE RATINGS OF WALLS.
4. SEE REFLECTED CEILING PLANS FOR FIRE RATED CEILINGS.
5. GROUND FLOOR CONCRETE BEAMS AND LOWER LEVEL CONCRETE COLUMNS DO NOT REQUIRE SPRAY FIRE-PROOFING FOR 2-HOUR RATING.

drawing title: GROUND FLOOR STRUCTURE FIRE RATINGS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
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Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393 | project no. BI-RS-283

sheet no. 1 of 2
date 11-21-2012
scale As indicated
drawn by AS
checked by RMUBR
drawing no. G112

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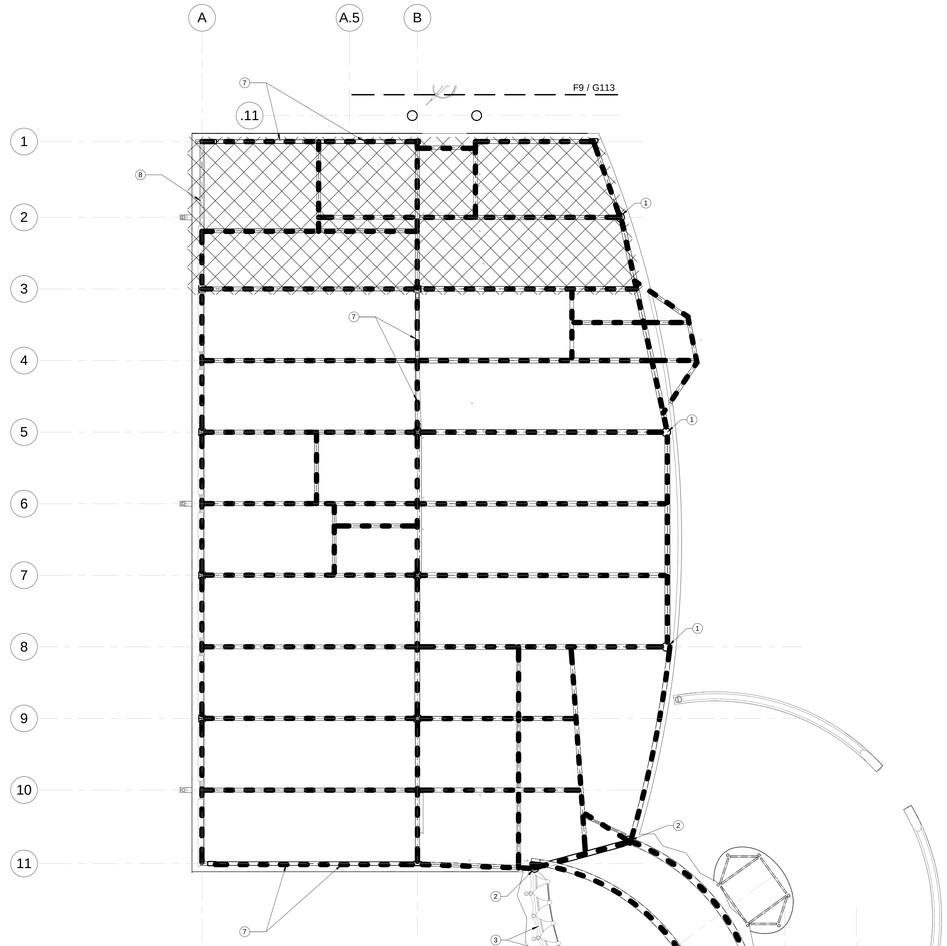
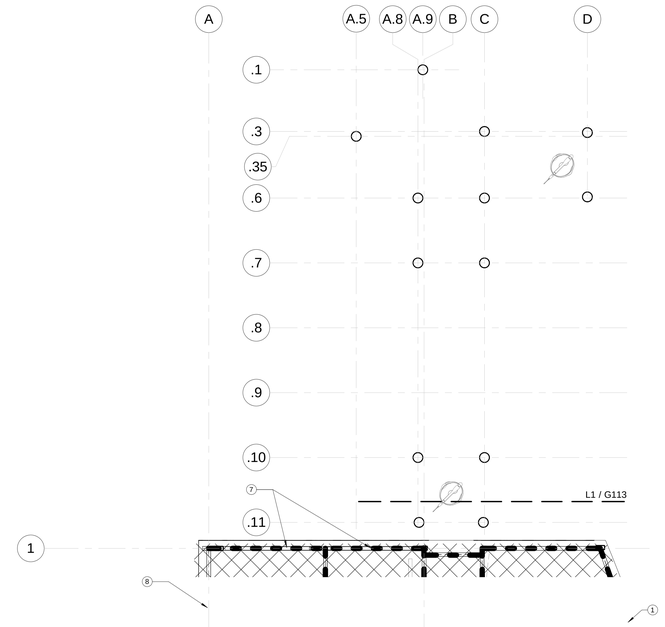
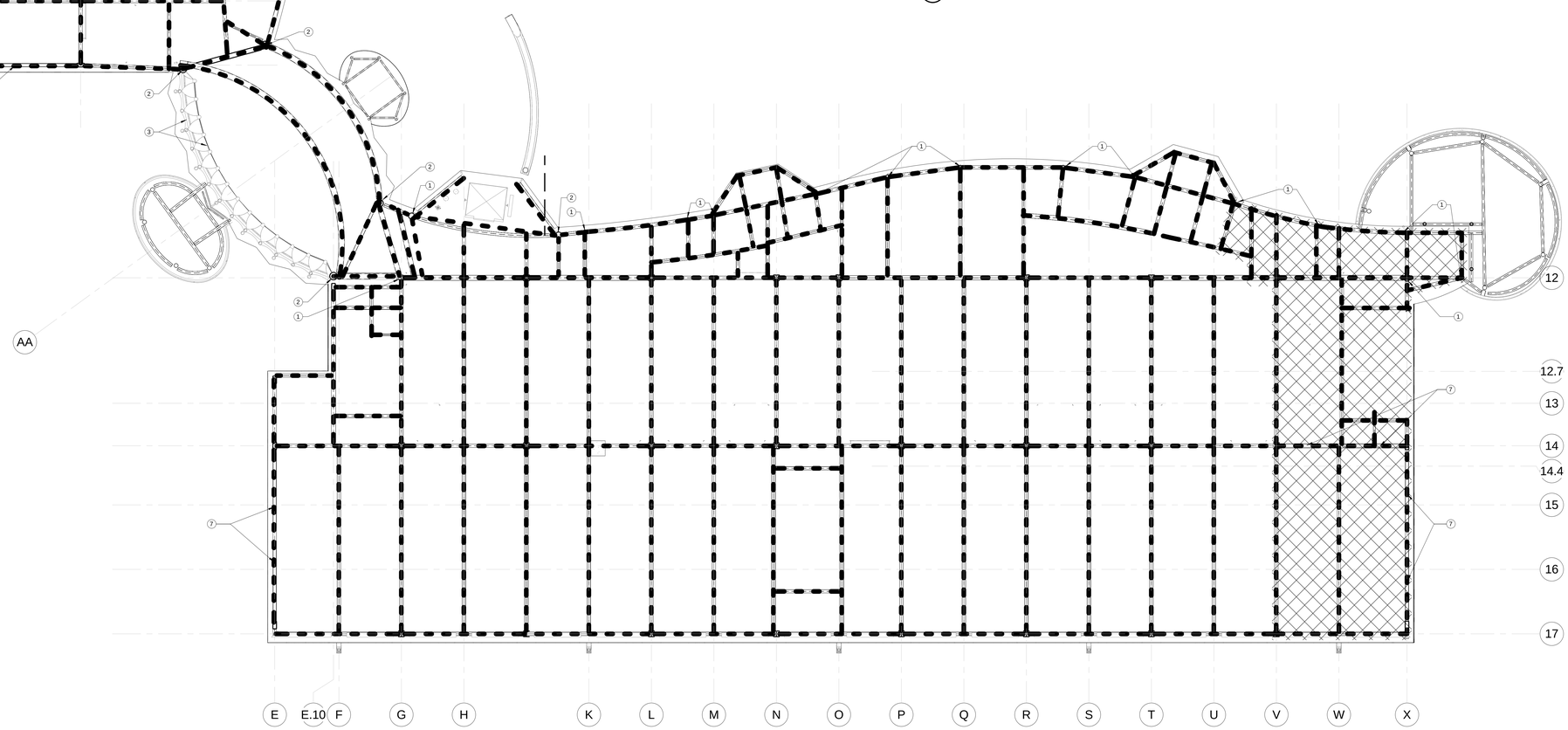
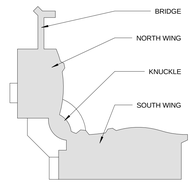




F9 SECOND FLOOR LEVEL STRUCTURE FIRE RATING - BRIDGE TO JENNINGS
1/8" = 1'-0"





L1 SECOND FLOOR LEVEL STRUCTURE FIRE RATING
1/8" = 1'-0"

STRUCTURE FIRE RATING PLAN LEGEND

- ONE HOUR FIRE RATED STRUCTURE - BEAMS AND COLUMNS
- TWO HOUR FIRE RATED STRUCTURE - BEAMS AND COLUMNS
- TWO HOUR FIRE RATED FLOOR WITH TWO HOUR FIRE RATED STRUCTURE - BEAMS AND COLUMNS
- ONE HOUR FIRE RATED FLOOR WITH TWO HOUR FIRE RATED STRUCTURE - BEAMS AND COLUMNS

KEYED NOTES

1. TWO HOUR FIRE RATED CONCRETE FILLED COLUMN - SEE STRUCTURAL
2. STEEL COLUMN WITH 2-HOUR FIRE RATED INTUMESCENT PAINT
3. NON-FIRE RATED CURTAIN WALL SUPPORT
4. STEEL ROD WITH 2-HOUR FIRE RATED INTUMESCENT PAINT
5. 2-HOUR FIRE RATED MEP SHAFT BEARS ON GROUND FLOOR 2-HOUR FIRE RATED STRUCTURE
6. 4TH FLOOR MECHANICAL ATTIC FLOOR STRUCTURE RATED FOR DIAGONAL RODS SUPPORTING 3RD FLOOR CONFERENCE ROOM STRUCTURE
7. 2-HOUR SPRAY FIREPROOFING AT STEEL DIAGONAL LATERAL BRACING.
8. EXPOSED STEEL BEAM AT STAIR WITH 2-HOUR FIRE RATED INTUMESCENT PAINT
9. 2-HOUR SPRAY FIREPROOFING AT STEEL COLUMN.

GENERAL NOTES

1. COLUMNS SHOWN ON PLAN ARE FROM THE FLOOR FRAMING LEVEL SHOWN DOWN TO NEXT FLOOR LEVEL BELOW.
2. ALL STEEL COLUMNS SUPPORTING FIRE RATED BEAMS, GIRDERS OR FLOOR STRUCTURE ARE TO RECEIVE 2-HOUR SPRAY FIREPROOFING UNLESS NOTED AS OTHERWISE WITH KEYNOTES.
3. SEE CODE DRAWING AND PARTITION PLANS FOR FIRE RATINGS OF WALLS.
4. SEE REFLECTED CEILING PLANS FOR FIRE RATED CEILINGS.
5. GROUND FLOOR CONCRETE BEAMS AND LOWER LEVEL CONCRETE COLUMNS DO NOT REQUIRE SPRAY FIRE-PROOFING FOR 2-HOUR RATING.

drawing title: SECOND FLOOR STRUCTURE FIRE RATINGS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

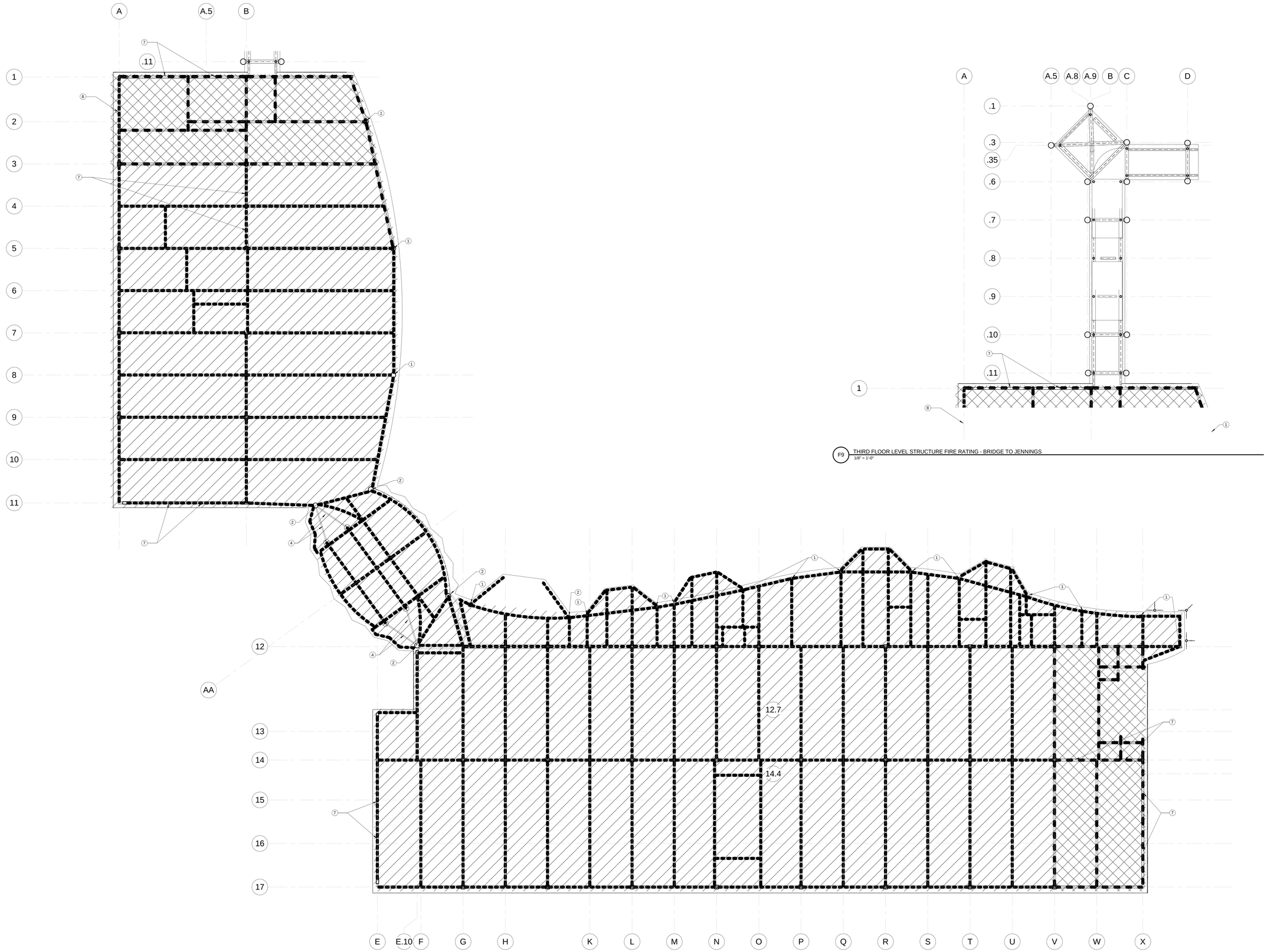
DRAWING PREPARED BY:
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD file: 1393
project no.: BI-RS-283

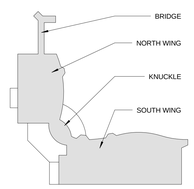
sheet no.: 1 of 2
date: 11-21-2012
scale: As indicated
drawn by: AS
checked by: RMJBR
drawing no.: G113

Clifford Local Filed (R9 SCSU New Academic and Laboratory Building #1) Conrad_galbreth 11/21/2012 1:20:06 PM



L1 THIRD FLOOR LEVEL STRUCTURE FIRE RATING
1/8" = 1'-0"

F9 THIRD FLOOR LEVEL STRUCTURE FIRE RATING - BRIDGE TO JENNINGS
1/8" = 1'-0"



STRUCTURE FIRE RATING PLAN LEGEND

- ONE HOUR FIRE RATED STRUCTURE - BEAMS AND COLUMNS
- TWO HOUR FIRE RATED STRUCTURE - BEAMS AND COLUMNS
- TWO HOUR FIRE RATED FLOOR WITH TWO HOUR FIRE RATED STRUCTURE - BEAMS AND COLUMNS
- ONE HOUR FIRE RATED FLOOR WITH TWO HOUR FIRE RATED STRUCTURE - BEAMS AND COLUMNS

KEYED NOTES

1. TWO HOUR FIRE RATED CONCRETE FILLED COLUMN - SEE STRUCTURAL
2. STEEL COLUMN WITH 2-HOUR FIRE RATED INTUMESCENT PAINT
3. NON-FIRE RATED CURTAIN WALL SUPPORT
4. STEEL ROD WITH 2-HOUR FIRE RATED INTUMESCENT PAINT
5. 2-HOUR FIRE RATED MEP SHAFT BEARS ON GROUND FLOOR 2-HOUR FIRE RATED STRUCTURE
6. 4TH FLOOR MECHANICAL ATTIC FLOOR STRUCTURE RATED FOR DIAGONAL RODS SUPPORTING 3RD FLOOR CONFERENCE ROOM STRUCTURE
7. 2-HOUR SPRAY FIREPROOFING AT STEEL DIAGONAL LATERAL BRACING.
8. EXPOSED STEEL BEAM AT STAIR WITH 2-HOUR FIRE RATED INTUMESCENT PAINT
9. 2-HOUR SPRAY FIREPROOFING AT STEEL COLUMN.

GENERAL NOTES

1. COLUMNS SHOWN ON PLAN ARE FROM THE FLOOR FRAMING LEVEL SHOWN DOWN TO NEXT FLOOR LEVEL BELOW.
2. ALL STEEL COLUMNS SUPPORTING FIRE RATED BEAMS, GIRDERS OR FLOOR STRUCTURE ARE TO RECEIVE 2-HOUR SPRAY FIREPROOFING UNLESS NOTED AS OTHERWISE WITH KEYNOTES.
3. SEE CODE DRAWING AND PARTITION PLANS FOR FIRE RATINGS OF WALLS.
4. SEE REFLECTED CEILING PLANS FOR FIRE RATED CEILINGS.
5. GROUND FLOOR CONCRETE BEAMS AND LOWER LEVEL CONCRETE COLUMNS DO NOT REQUIRE SPRAY FIRE-PROOFING FOR 2-HOUR RATING.

drawing title: THIRD FLOOR STRUCTURE FIRE RATINGS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393 | project no. BI-RS-283

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

sheet of: 1 of 2
date: 11-21-2012
scale: As indicated
drawn by: AS
checked by: RMJBR
drawing no. G114

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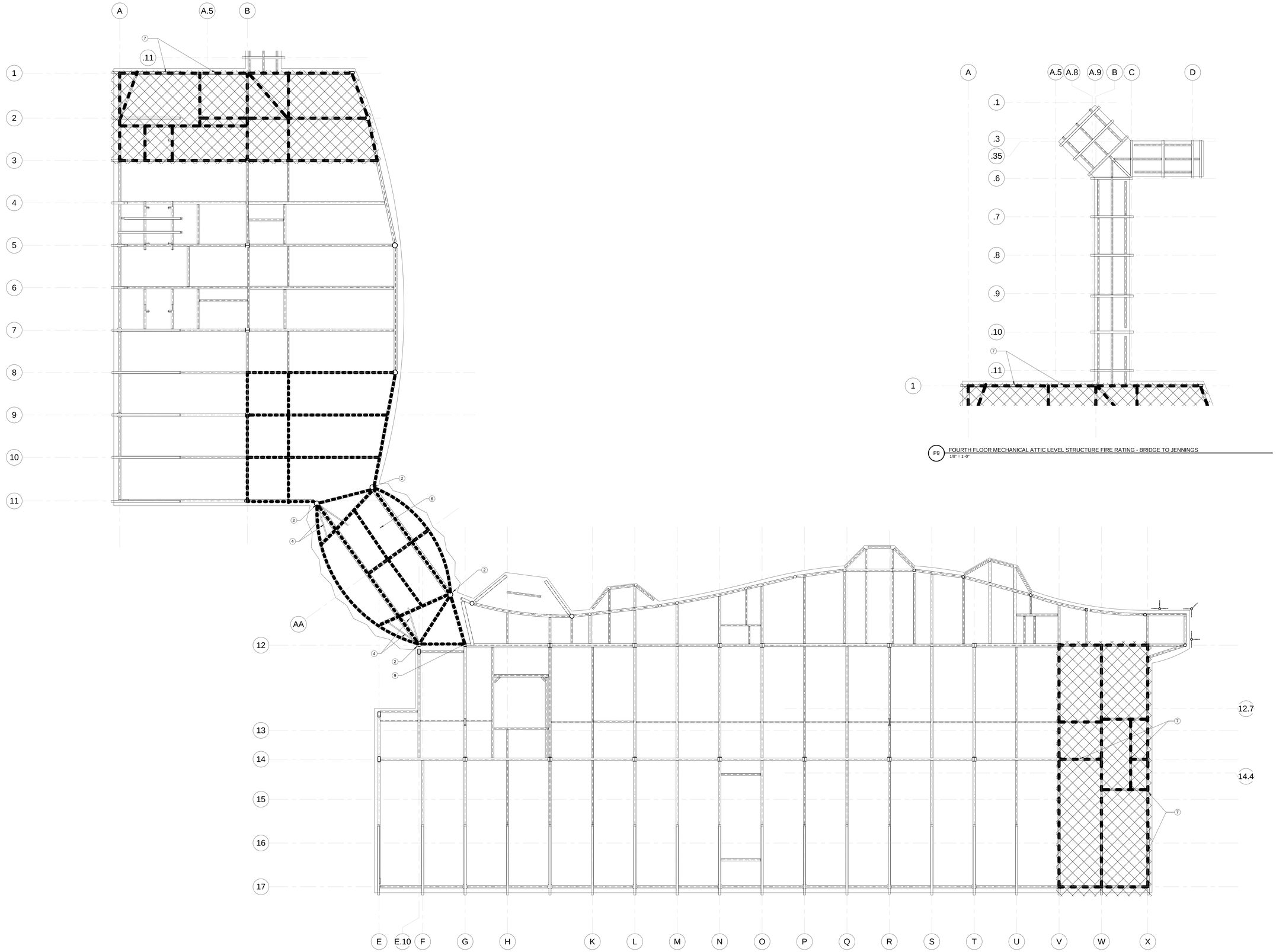
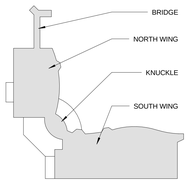


L1 FOURTH FLOOR MECHANICAL ATTIC LEVEL STRUCTURE FIRE RATING
1/8" = 1'-0"

F9 FOURTH FLOOR MECHANICAL ATTIC LEVEL STRUCTURE FIRE RATING - BRIDGE TO JENNINGS
1/8" = 1'-0"



STRUCTURE FIRE RATING PLAN LEGEND

- ONE HOUR FIRE RATED STRUCTURE - BEAMS AND COLUMNS
- TWO HOUR FIRE RATED STRUCTURE - BEAMS AND COLUMNS
- TWO HOUR FIRE RATED FLOOR WITH TWO HOUR FIRE RATED STRUCTURE - BEAMS AND COLUMNS
- ONE HOUR FIRE RATED FLOOR WITH TWO HOUR FIRE RATED STRUCTURE - BEAMS AND COLUMNS

KEYED NOTES

1. TWO HOUR FIRE RATED CONCRETE FILLED COLUMN - SEE STRUCTURAL
2. STEEL COLUMN WITH 2-HOUR FIRE RATED INTUMESCENT PAINT
3. NON-FIRE RATED CURTAIN WALL SUPPORT
4. STEEL ROD WITH 2-HOUR FIRE RATED INTUMESCENT PAINT
5. 2-HOUR FIRE RATED MEP SHAFT BEARS ON GROUND FLOOR 2-HOUR FIRE RATED STRUCTURE
6. 4TH FLOOR MECHANICAL ATTIC FLOOR STRUCTURE RATED FOR DIAGONAL RODS SUPPORTING 3RD FLOOR CONFERENCE ROOM STRUCTURE
7. 2-HOUR SPRAY FIREPROOFING AT STEEL DIAGONAL LATERAL BRACING.
8. EXPOSED STEEL BEAM AT STAIR WITH 2-HOUR FIRE RATED INTUMESCENT PAINT
9. 2-HOUR SPRAY FIREPROOFING AT STEEL COLUMN.

GENERAL NOTES

1. COLUMNS SHOWN ON PLAN ARE FROM THE FLOOR FRAMING LEVEL SHOWN DOWN TO NEXT FLOOR LEVEL BELOW.
2. ALL STEEL COLUMNS SUPPORTING FIRE RATED BEAMS, GIRDERS OR FLOOR STRUCTURE ARE TO RECEIVE 2-HOUR SPRAY FIREPROOFING UNLESS NOTED AS OTHERWISE WITH KEYNOTES.
3. SEE CODE DRAWING AND PARTITION PLANS FOR FIRE RATINGS OF WALLS.
4. SEE REFLECTED CEILING PLANS FOR FIRE RATED CEILINGS.
5. GROUND FLOOR CONCRETE BEAMS AND LOWER LEVEL CONCRETE COLUMNS DO NOT REQUIRE SPRAY FIRE-PROOFING FOR 2-HOUR RATING.

drawing title: MECHANICAL ATTIC FLOOR STRUCTURE FIRE RATINGS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393 | project no. BI-RS-283

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

sheet of: 1 of 2
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checked by: RMJBR
drawing no. G115

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System No. C-AJ-0070
XHEZ.C-AJ-0070
Through-penetration Firestop Systems

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Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Listed or Classified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered as Classified, Listed, or Recognized.

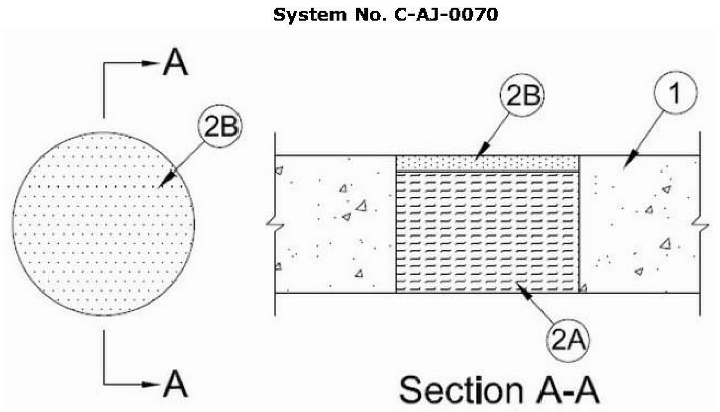
XHEZ - Through-penetration Firestop Systems

XHEZ7 - Through-penetration Firestop Systems Certified for Canada

See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. C-AJ-0070



1. **Floor or Wall Assembly** — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 7 in. (178 mm).

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Firestop System** — The firestop system shall consist of the following:

A. **Packing Material** — Min. 4 in. (102 mm) thickness of 4 pcf (64 kg/m^3) mineral wool batt insulation tightly packed into the opening as a permanent form. Packing material to be recessed from top surface of floor and both surfaces of wall as required to accommodate the required thickness of fill material.

B. **Fill Void or Cavity Materials*** — **Sealant** — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS -ONE Sealant

*Bearing the UL Classification Mark

System No. C-AJ-5091
XHEZ.C-AJ-5091
Through-penetration Firestop Systems

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Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

System No. C-AJ-5091

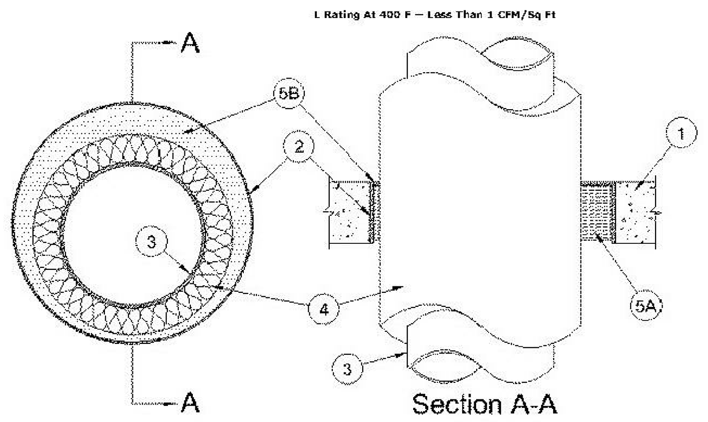
July 18, 2011

F Rating — 2 Hr

T Ratings — 0 and 1 Hr (See Items 2 and 4)

L Rating At Ambient — 4 CFM/Sq Ft

L Rating At 400 F — Less Than 1 CFM/Sq Ft



1. **Floor or Wall Assembly** — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 29 in. (737 mm).

See **Concrete Blocks** (CAZT) category in the Fire Resistance directory for names of manufacturers.

2. **Metallic Sleeve** — (Optional) — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max of 3 in. (76 mm) above floor or beyond both surfaces of wall. If the steel sleeve extends beyond the top surface of the floor or both surfaces of the wall, the T Rating of the firestop system is 0 hr.

2A. **Sheet Metal Sleeve** — (Optional) - Max 6 in. (152 mm) diam, min 26 ga galv steel provided with a 26 ga galv steel square flange spot welded to the sleeve at approximately mid- height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sleeve is to be cast in place flush with bottom surface of floor and may extend a max of 1 in. (25 mm) above the top surface of the floor.

2B. **Sheet Metal Sleeve** — (Optional) - Max 12 in. (305 mm) diam, min 24 ga galv steel provided with a 24 ga galv steel square flange spot welded to the sleeve at approximately mid- height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sleeve is to be cast in place flush with bottom surface of floor and may extend a max of 1 in. (25 mm) above the top surface of the floor.

3. **Through Penetrants** — One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubing may be used:

A. **Steel Pipe** — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe** — Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.

C. **Copper Pipe** — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

D. **Copper Tubing** — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

4. **Pipe Covering** — Min 1/2 in. (13 mm) to max 2 in. (51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m^3) glass fiber units jacketed on the outside with an all-service jacket. Longitudinal joints sealed with metal fasteners or factory-applied, self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space between the insulated pipe and the edge of the periphery of the opening shall be min 1/2 in. (13 mm) to max 12 in. (305 mm). **When thickness of pipe covering is less than 2 in. (51 mm), the T Rating for the firestop system is 0 hr.**

See **Pipe Equipment Covering — Materials** — (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

4A. **Pipe Covering** — (Not Shown) — As an alternate to Item 4, max 2 in. (51 mm) thick cylindrical calcium silicate (min 14 pcf or 224 kg/m^3) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 18 AWG stainless steel wire spaced max 12 in. (305 mm) OC. The annular space shall be min 1/2 in. (13 mm) to max 12 in. (305 mm).

5. **Firestop System** — The firestop system shall consist of the following:

A. **Packing Material** — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m^3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Material*** — **Sealant** — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant

*Bearing the UL Classification Mark

Last Updated on 2011-07-18

System No. C-AJ-1226
XHEZ.C-AJ-1226
Through-penetration Firestop Systems

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Design/System/Construction/Assembly Usage Disclaimer

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Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

System No. C-AJ-1226

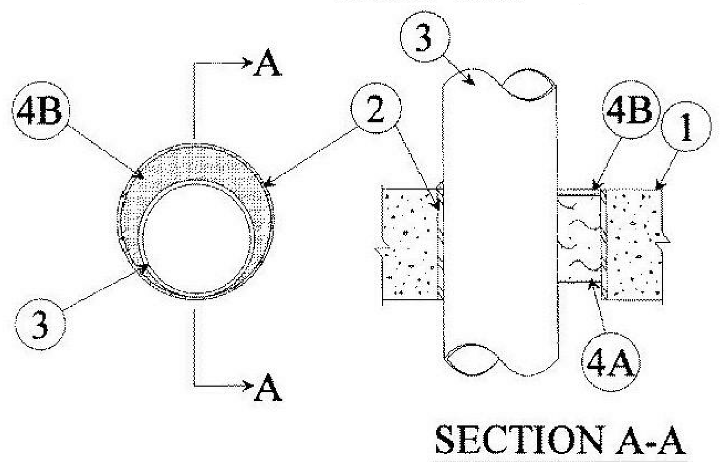
June 27, 2007

F Rating — 3 Hr

T Rating — 0 Hr

L Rating At Ambient — Less Than 1 CFM/Sq Ft

L Rating At 400 F — 4 CFM/Sq Ft



1. **Floor or Wall Assembly** — Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 32 in.

2. **Metallic Sleeve** — (Optional) Nom 32 in. diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max of 3 in. above floor or beyond both surfaces of wall.

2A. **Sheet Metal Sleeve** — (Optional) Max 6 in. diam, min 26 ga galv steel provided with a 26 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. larger than the sleeve diam. The sleeve is to be cast in place and may extend a max of 4 in. below the bottom of the deck and a max of 1 in. above the top surface of the concrete floor.

2B. **Sheet Metal Sleeve** — (Optional) - Max 12 in. diam, min 24 ga galv steel provided with a 24 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. larger than the sleeve diam. The sleeve is to be cast in place and may extend a max of 4 in. below the bottom of the deck and a max of 1 in. above the top surface of the concrete floor.

3. **Through-Penetrant** — One metallic pipe, tube or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. Penetrant may be installed with continuous point contact. Penetrant to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic penetrants may be used:

A. **Steel Pipe** — Nom 30 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe** — Nom 30 in. diam (or smaller) cast or ductile iron pipe.

C. **Copper Pipe** — Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.

D. **Copper Tubing** — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.

E. **Conduit** — Nom 6 in. diam (or smaller) steel conduit.

F. **Conduit** — Nom 4 in. diam (or smaller) steel electrical metallic tubing (EMT).

4. **Firestop System** — The firestop system shall consist of the following:

A. **Packing Material** — Min 4 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or sleeve or from both surfaces of wall or sleeve as required to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Material*** — **Sealant** — Min 1/4 in. thickness of fill material applied within the annulus, flush with top surface of floor or sleeve or with both surfaces of wall or sleeve. At the point or continuous contact locations between penetrant and concrete or sleeve, a min 1/4 in. diam bead of fill material shall be applied at the concrete or sleeve/ pipe penetrant interface on the top surface of floor and on both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant

*Bearing the UL Classification Mark

Last Updated on 2007-06-27

System No. C-AJ-5096
XHEZ.C-AJ-5096
Through-penetration Firestop Systems

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Design/System/Construction/Assembly Usage Disclaimer

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Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

System No. C-AJ-5096

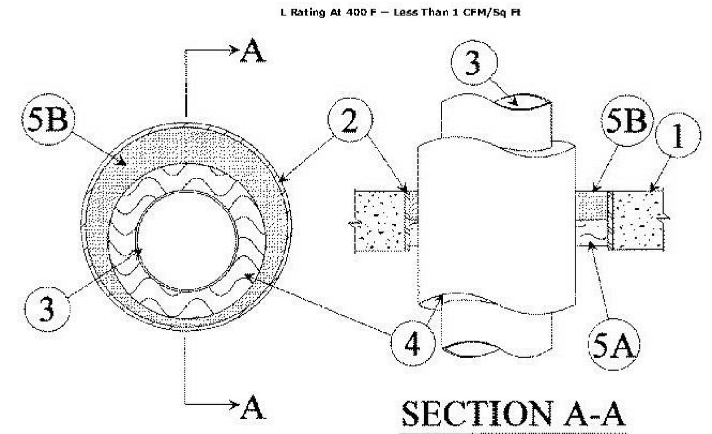
February 18, 2008

F Rating — 2 Hr

T Rating — 0 Hr

L Rating At Ambient — 4 CFM/Sq Ft

L Rating At 400 F — Less Than 1 CFM/Sq Ft



1. **Floor or Wall Assembly** — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 18 in. (457 mm).

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Metallic Sleeve** — (Optional) — Nom 18 in. (457 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

3. **Through Penetrants** — One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubing may be used:

A. **Steel Pipe** — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Copper Pipe** — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

C. **Copper Tubing** — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

4. **Pipe Covering** — Min 1/2 in. (13 mm) to max 1-1/2 in. (38 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m^3) glass fiber units jacketed on the outside with an all-service jacket. Longitudinal joints sealed with metal fasteners or factory-applied, self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space between the insulated pipe and the edge of the periphery of the opening shall be min 1/2 in. (13 mm) to a max 1-7/8 in. (48 mm).

See **Pipe Equipment Covering — Materials** — (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

5. **Firestop System** — The firestop system shall consist of the following:

A. **Packing Material** — Min 1-1/2 in. (38 mm) thickness of min 4 pcf (64 kg/m^3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Material*** — **Sealant** — Min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant

System No. C-AJ-2109

August 27, 2010

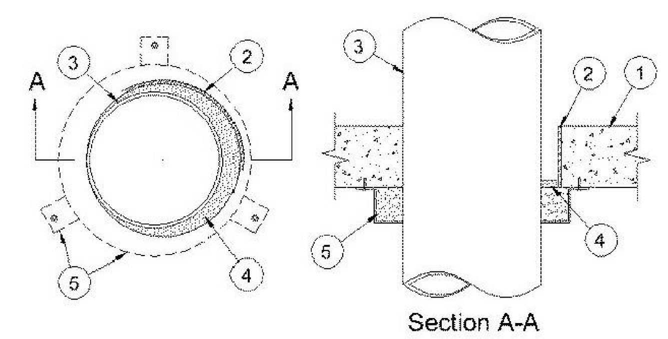
F Ratings — 2 and 3 Hr (See Item 3)

T Ratings — 0, 2 and 3 Hr (See Items 2 and 3)

W Rating - Class 1 (See Items 2, 3 and 4)

L Rating at Ambient — Less Than 1 CFM/sq ft (See Item 4)

L Rating at 400 F — Less Than 1 CFM/sq ft (See Item 4)



2400 kg/m^3) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 12 in. (305 mm).

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufactures.

2. **Steel Sleeve** — (Optional) - Nom 12 in. (305 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces a max of 3 in. (76 mm) above the floor. If the steel sleeve extends above the floor, the T Rating of the firestop system is 0 Hr and a min 1/2 in. (13 mm) annular space is required between the through penetrant (Item 3) and the periphery of the opening. **The W Rating does not apply when the steel sleeve is used.**

3. **Through Penetrants** — One nonmetallic pipe to be installed either concentrically or eccentrically within the firestop system. For max 6 in. (152 mm) diam pipes, the annular space between the pipe and the periphery of opening shall be min 0 in. (0 mm, point contact) to max 1/2 in. (13 mm). For nom 8 in. (203 mm) and 10 in. (254 mm) diam pipes, the annular space between the pipe and the periphery of opening shall be min 0 in. (0 mm, point contact) to max 1-1/4 in. (32 mm). If the steel sleeve extends above the floor (Item 2), a min 1/2 in. (13 mm) annular space is required between the through penetrant (Item 3) and the periphery of the opening. Pipe to be rigidly supported on both sides of floor or wall assembly. **For systems with a W Rating, the max annular space is 1/2 in. (13 mm). The T Ratings are dependent on the size and/or type of pipe as shown in the table below.** The following types and sizes of nonmetallic pipes may be used:

A. **Polyvinyl Chloride (PVC) Pipe** — Nom 10 in. (254 mm) diam (or smaller) Schedule 40 solid core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. For systems with a W Rating, the nom diam of pipe shall not exceed 6 in. (152 mm).

B. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom 10 in. (254 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems. For systems with a W Rating, the nom diam of pipe shall not exceed 6 in. (152 mm).

C. **Acrylonitrile Butadiene Styrene (ABS) Pipe** — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 solid-core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.

D. **Flame Retardant Polypropylene (FRPP) Pipe** — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

Pipe Type	Nom Pipe Diam, In. (mm)	F Rating Hr
PVC, CPVC	Greater than 6 (152)	2
PVC, CPVC, ABS, FRPP	6 (152) or smaller	3

Pipe Type	Nom Pipe Diam, In. (mm)	T Rating Hr
PVC, CPVC, ABS, FRPP	1-1/2, 2, 3 (38, 51, 76)	2
PVC, CPVC, ABS, FRPP	4 (102)	3
PVC, CPVC, ABS+, FRPP	6 (152)	3
PVC, CPVC	Greater than 6 (152)	0
ABS++	6 (152)	0

+ - Indicates solid core ABS only.

++ - Indicates cellular core ABS only.

4. **Fill, Void or Cavity Material*** — **Sealant** — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top or bottom surface of floor or both surfaces of wall. Sealant is optional for pipes having a max diam of 6 in. (152 mm) in unsleeved openings. **For systems with W Rating and/or L Rating, min 1/2 in. (13 mm) thickness of CP 601S or CP 604 Sealant shall be applied within the annulus, flush with top or bottom surface of floor.**

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant, CP 601S Sealant or CP 604 Sealant

4A. **Packing Material (not shown)** — Min 1/2 in. (13 mm) thickness of 4 pcf (64 kg/m^3) mineral wool batt insulation firmly packed into annular space and recessed from the top surface of floor to accommodate the required thickness of fill material. Required only when CP 604 Sealant is used.

5. **Firestop Device*** — **Firestop Collar** — Firestop collar shall be installed in accordance with the accompanying

installation instructions. Collar to be installed and latched around the pipe and secured to underside of floor or both sides of wall using the anchor hooks provided with the collar. Minimum two anchor hooks for nom 1-1/2 and 2 in. (38 and 51 mm) diam pipes. Minimum three anchor hooks required for nom 3 and 4 in. (76 and 102 mm) diam pipes. Minimum four anchor hooks required for nom 6 in. (152 mm) diam pipes. Minimum ten anchor hooks required for nom 8 in (203 mm) diam pipes. Minimum twelve anchor hooks required for nom 10 in. (254 mm) diam pipes. The anchor hooks are to be secured with min 1/4 in. (6 mm) diam by min 1-1/4 in. (32 mm) long steel expansion bolts or min 0.145 in. (3.7 mm) diam by 1-1/4 in. (32 mm) long powder actuated fasteners utilizing a 1-7/16 in. (37 mm) diam by 1/16 in. (1.6 mm) thick steel washer. As alternates to the anchors specified above, Hilti 1/4 in. (6 mm) diam by 1-1/4 in. (32 mm) long KWIK-CON II+ concrete screw anchor, Hilti 1/4 in. (6 mm) diam by 1-3/4 in. (45 mm) long KWIK-BOLT 3 steel expansion anchor or Hilti X-DNI 27 P8 S15 powder actuated floor pin with integral nom 9/16 in. (15 mm) diam washer may be used.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 643N 50/1.5", CP 643N 63/2", CP 643N 90/3", CP 643N 110/4", CP 643 160/6", CP 644 200/8" or CP 644 250/10" Firestop Collar

*Bearing the UL Classification Mark

Last Updated on 2010-08-27

System No. C-AJ-7046
XHEZ.C-AJ-7046
Through-penetration Firestop Systems

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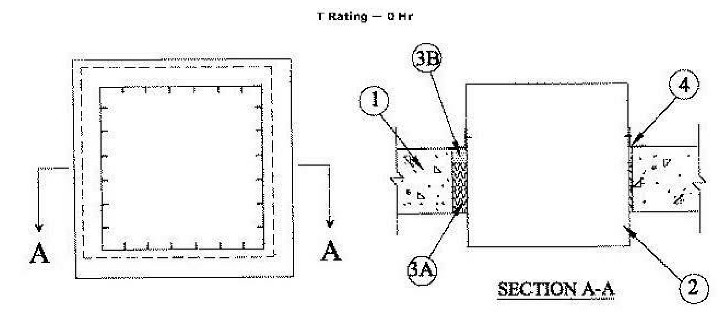
Through-penetration Firestop Systems

System No. C-AJ-7046

November 29, 2001

F Rating — 3 Hr

T Rating — 0 Hr



1. **Floor or Wall Assembly** — Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete floor or min 5-1/2 in. thick lightweight on normal weight concrete wall. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max area of opening is 1139 in. sq with a max dimension of 33-3/4 in.

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufactures.

2. **Steel Duct** — Nom 32 by 32 by No. 24 gauge (or heavier) galv steel duct. One steel duct to be positioned within the firestop system. The annular space shall be min 1/4 in. to max 1-1/2 in. Duct to be rigidly supported on both sides of floor or wall assembly.

3. **Firestop System** — The firestop system shall consist of the following:

A. **Packing Materials** — Min 3-1/2 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form between the bare steel duct and the periphery of the opening. Packing material to be recessed from top surface of floor or both surfaces of wall as required to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Material*** — **Sealant** — Min 1 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 601S Elasomeric Firestop Sealant or CP604 Self-Leveling Firestop Sealant

4. **Steel Retaining Angle** — Nom 2 in. by 2 in. by No. 16 gauge (or heavier) steel angles attached to all four sides of the steel duct on the top surface or both surfaces of the wall. The angles shall be attached with No. 8 (or larger) steel sheet metal screws spaced max of 1 in. from each end and a max of 3 in. OC.

*Bearing the UL Classification Mark

System No. C-AJ-3095
XHEZ.C-AJ-3095
Through-penetration Firestop Systems

Page Bottom

Design/System/Construction/Assembly Usage Disclaimer

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Through-penetration Firestop Systems

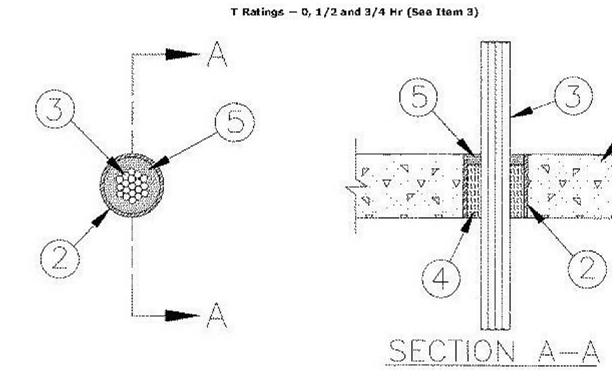
General Information for Through-penetration Firestop Systems

System No. C-AJ-3095

May 29, 2008

F Rating — 3 Hr

T Ratings — 0, 1/2 and 3/4 Hr (See Item 3)



1. **Floor or Wall Assembly** — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600 2400 kg/m^3) concrete floor or min 3 in. (76 mm) thick reinforced lightweight or normal weight concrete wall. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 6 in. (152 mm).

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

A. Max 500 kcmil single copper connector power cable with thermoplastic insulation and polyvinyl chloride (PVC) jacket. **When single copper conductor power cable is used, T Rating is 0 hr.**

B. Max 350 kcmil single conductor power cables with either aluminum or copper conductors and cross-linked polyethylene (XPLE) insulation. **When single aluminum conductor power cable is used, T Rating is 0 hr. When single copper conductor power cable is used, T Rating is 1/2 hr.**

C. Max 300 pair No. 24 AWG copper conductor telecommunication cables with polyvinyl chloride (PVC) insulation and jacket material. **When telecommunication cable is used, T Rating is 0 hr.**

D. Max three copper connector No. 6 AWG cable with polyvinyl chloride (PVC) insulation and jacket material. **When multi-connector power cable is used, T Rating is 0 hr.**

E. Max 7/C copper conductor No. 12 AWG multiconductor power and control cables with PVC or cross-linked polyethylene (XLPE) insulation and PVC jacket. **When multiconductor power and control cable is used, T Rating is 3/4 hr.**

F. Multiple fiber optical communication cables jacketed with PVC and having a max outside diam of 1/2 in. **When fiber optic cable is used, T Rating is 3/4 hr.**

G. Max 3/C copper conductor No. 12 AWG with Bare aluminum ground, polyvinyl chloride (PVC) insulated steel, Metal-clad cable+. **When MC cable is used, T Rating is 0 hr.**

AFC CABLE SYSTEMS INC

H. Max 3/C with ground 2/0 AWG copper conductor SER cable with cross-linked polyethylene (XLPE) insulation and polyvinyl chloride (PVC) jacket. **When SER cable is used, T Rating is 0 hr.**

I. Max RG/U coaxial cable with polyethylene (PE) insulation and polyvinyl chloride (PVC) jacket having a max outside diameter of ½ in. **When coaxial cable is used, T Rating is 0 hr.**

J. Fire Resistive Cables* - Max 1-1/4 in. (32 mm) diam single conductor or multi conductor Type MI cable. A min 1/8 in. (3 mm) separation shall be maintained between MI cables and any other type of cable. **When Fire Resistive Cables *are used, T Rating is 0 hr.**

System No. C-AJ-4034
XHEZ.C-AJ-4034
Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

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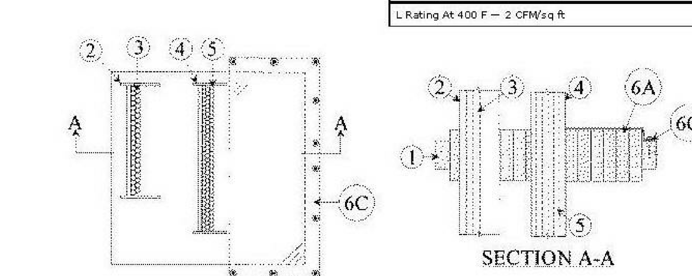
XHEZ - Through-penetration Firestop Systems

XHEZ7 - Through-penetration Firestop Systems Certified for Canada

System No. C-AJ-4034

December 12, 2011

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 3 Hr	F Rating — 3 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating At Ambient — 5 CFM/sq ft	FH Rating — 3 Hr
L Rating At 400 F — 2 CFM/sq ft	FTH Rating — 0 Hr
	L Rating At Ambient — 5 CFM/sq ft
	L Rating At 400 F — 2 CFM/sq ft



1. **Floor or Wall Assembly —** Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max area of opening is 900 in. sq (5806 cm^2) with max dimension of 30 in. (762 mm).

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Cable Tray* —** Max 18 in. (457 mm) wide by max 6 in. (31 mm) deep open-ladder cable tray with channel-shaped side rails formed of 0.065 in. (1.65 mm) thick aluminum or 0.060 in. (1.52 mm) thick galv steel and with 1-1/2 in. (38 mm) wide by 1 in. (25 mm) channel shape rungs spaced 9 in. (229 mm) OC. The annular space between the cable trays shall be 5 in. (127 mm). The annular space between the cable tray and the periphery of the opening shall be min 1-1/2 in. (38 mm) to max 10-1/2 in. (267 mm). Cable tray to be rigidly supported on both sides of floor or wall assembly.

3. **Cables —** Aggregate cross-sectional area of cables in cable tray to be max 20 percent of the cross-sectional area of the cable tray based on a max 3 in. (76 mm) cable loading depth within the cable tray. Any combination of the following types and sizes of copper conductor or fiber optic cables may be used:

A. 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and PVC jacket.

B. 300 pair - No. 24 AWG cable with PVC insulation and jacket.

C. 1/C, 350 kcmil with cross-linked polyethylene (XLPE) insulation and jacket.

D. 1/C, 500 kcmil with thermo plastic insulation and polyvinyl chloride (PVC) jacket.

E. Twenty four fiber optic cable with PVC sub unit and jacket.

4. **Cable Tray* —** Max 24 in. (610 mm) wide by max 4 in. (102 mm) deep open-ladder or solid-back cable tray with channel-shaped side rails formed of 0.10 in. (2.54 mm) thick aluminum or 0.060 in.(1.52 mm) thick galv steel and with 1-1/2 in. (38 mm) wide by 1 in. (25 mm) channel shape rungs spaced 9 in. (229 mm) OC or a 0.029 in. (0.74 mm) thick steel solid back, respectively. The annular space between the cable trays shall be 5 in. (127 mm). The annular space between the cable tray and the periphery of the opening shall be min 1-1/2 in. (38 mm) to max 13-1/2 in. (343 mm). Cable tray to be rigidly supported on both sides of floor or wall assembly.

5. **Cables —** Aggregate cross-sectional area of cables in cable tray to be max 40 percent of the cross-sectional area of the cable tray based on a max 3 in. (76 mm) cable loading depth within the cable tray. Any combination of the following types and sizes of copper conductor or fiber optic cables may be used:

A. 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and PVC jacket.

B. 300 pair - No. 24 AWG cable with PVC insulation and jacket.

C. 1/C, 350 kcmil with cross-linked polyethylene (XLPE) insulation and jacket.

D. 1/C, 500 kcmil with thermo plastic insulation and polyvinyl chloride (PVC) jacket.

E. Twenty four fiber optic cable with PVC sub unit and jacket.

6. **Firestop System —** The firestop system shall consist of the following:

A. **Fill, Void or Cavity Material* —** Fire blocks installed with long dimension passed through and centered within the opening. Blocks to be firmly packed and completely fill the entire area and thickness of opening. Either one or a combination of the blocks specified below may be used.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS 657 Fire Block or CFS-BL Firestop Block

B. **Fill, Void or Cavity Material* —** Fill material to be forced into interstices of cables and between cables and cable trays to max extent possible on both surfaces of the penetration.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant

C. **Wire Mesh —** When the annular space exceeds 5 in. (127 mm) to the periphery, a nom 2 in. sq. (51 mm sq.) wire fencing shall be used to keep the fire blocks in place. The wire fencing is fabricated from min No. 16 SWG (0.060 in.) (1.53 mm) galv steel wire. The wire is cut to fit the contour of the penetrating item with a min 3 in. (76 mm) lap beyond the periphery of the opening. Wire fencing secured to top surface of floor and both surfaces of wall assembly by means of 1/4 in. (6 mm) diam by 1 in. (25 mm) long concrete anchors and 1/4 in. (6 mm) by 1-1/2 in. (38 mm) diam fender washers spaced max 8 in. (203 mm) OC.

*Bearing the UL Classification Mark

System No. C-AJ-8056
XHEZ.C-AJ-8056
Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

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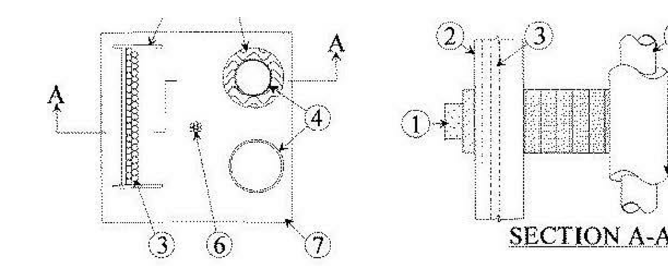
XHEZ - Through-penetration Firestop Systems

XHEZ7 - Through-penetration Firestop Systems Certified for Canada

System No. C-AJ-8056

December 12, 2011

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 3 Hr	F Rating — 3 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating At Ambient — 5 CFM/sq ft	FH Rating — 3 Hr
L Rating At 400 F — 2 CFM/sq ft	FTH Rating — 0 Hr
	L Rating At Ambient — 5 CFM/sq ft
	L Rating At 400 F — 2 CFM/sq ft



1. **Floor or Wall Assembly** — 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max area of opening is 1296 in. sq (8361 cm^2) with max dimension of 36 in. (914 mm).

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Cable Tray*** — Max 18 in. (457 mm) wide by max 6 in. (152 mm) deep open-ladder or solid-back cable tray with channel-shaped side rails formed of 0.060 in. (1.52 mm) thick aluminum or steel and with 1-1/2 in. (38 mm) wide by 1 in. (25 mm) channel shape rungs spaced 9 in. (229 mm) OC or a 0.029 in. (0.74 mm) thick steel solid back, respectively. One cable tray to be installed in the opening. The max annular space between the cable tray and adjacent penetrants is 9 in. (229 mm) and between the cable tray and periphery of the opening shall be min 1-1/2 in. (38 mm) to max 4-1/2 in. (114 mm). Cable tray to be rigidly supported on both sides of floor or wall assembly.

3. **Cables** — Aggregate cross-sectional area of cables in cable tray to be max 30 percent of the cross-sectional area of the cable tray based on a max 3 in. (76 mm) cable loading depth within the cable tray. Any combination of the following types and sizes of copper conductor or fiber optic cables may be used:

A. 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and PVC jacket.

B. 300 pair - No. 24 AWG cable with PVC insulation and jacket.

C. 1/C, 350 kcmil with cross-linked polyethylene (XLPE) insulation and jacket.

D. 1/C, 500 kcmil with thermo plastic insulation and polyvinyl chloride (PVC) jacket.

E. Twenty four fiber optic cable with PVC sub unit and jacket.

4. **Through-Penetrants** — One or more pipe, conduit or tube to be installed within the opening. The total number of through-penetrants is dependent on the size of the opening and types and sizes of the penetrants. Any combination of the penetrants described below may be used provided that the following parameters relative to the annular spaces and the spacings between the pipes are maintained. The space between pipes, conduits or tubing and between the periphery of the opening and the pipes or conduits shall be min 1 in. (25 mm) to max 4-1/2 in. (114 mm). Pipe, conduit or tube to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Nom 6 in. (152 mm) diam (or smaller) rigid galv steel conduit.

B. Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.

m) diam (or smaller) Regular (or heavier) copper pipe.

m) diam (or smaller) Type L (or heavier) copper tube.

m) diam (or smaller) Schedule 10 (or heavier) steel pipe.

F. Nom 6 in. (152 mm) diam (or smaller) cast or ductile iron pipe.

5. **Pipe Covering** — Nom 1-1/2 in. (38 mm) thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product.

See **Pipe and Equipment Covering and Materials** (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 may be used.

6. **Cables** — Max 2 in. (51 mm) diam tight bundle of cables centered in opening and rigidly supported on both surfaces of floor and wall. Any combination of the following types and sizes of cables may be used:

A. 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and PVC jacket.

B. 25 pair - No. 24 AWG cable with PVC insulation and jacket.

C. 2/C No. 10 AWG with PVC insulation and jacket.

D. 3/C No. 8 AWG aluminum clad cable with cross-linked polyethylene (XLPE) insulation and PVC jacket.

E. Type RC - 62 A/U coaxial cable with air core and PVC jacket.

F. 24 fiber optic cable with PVC sub unit and outer jacket.

7. **Firestop System** — The firestop system shall consist of the following:

A. **Fill, Void or Cavity Material*** — Fire blocks installed with long dimension passed through the opening and centered within the thickness of the floor or wall. Blocks to be firmly packed and completely fill the entire area and thickness of opening. Either one or a combination of the block types specified below may be used.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS 657 -Fire Block or CFS-BL Firestop Block

B. **Fill, Void or Cavity Material*** — (Not Shown) Fill material to be forced into interstices of cables and between cables and cable trays to max extent possible on both surfaces of the penetration.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or CP618 Firestop Putty Stick (L Rating applies only when FS-One Sealant is used.)

C. **Wire Mesh (Not Shown)** — When the annular space exceeds 4-1/2 in. (114 mm) to the periphery, a nom 2 in. sq (51 mm sq.) wire fencing shall be used to keep the fire blocks in place. The wire fencing is fabricated from min No. 16 SWG (0.060 in.) (1.52 mm) galv steel wire. The wire is cut to fit the contour of the penetrating item with a min 3 in. (76 mm) lap beyond the periphery of the opening. Wire fencing secured to top surface of floor and both surfaces of wall assembly by means of 1/4 in. (6 mm) diam by 1 in. (25 mm) long concrete anchors and 1/4 in. (6 mm) by 1-1/2 in. (38 mm) diam fender washers spaced max 8 in. (203 mm) OC.

*Bearing the UL Classification Mark

System No. C-AJ-8099
XHEZ.C-AJ-8099
Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

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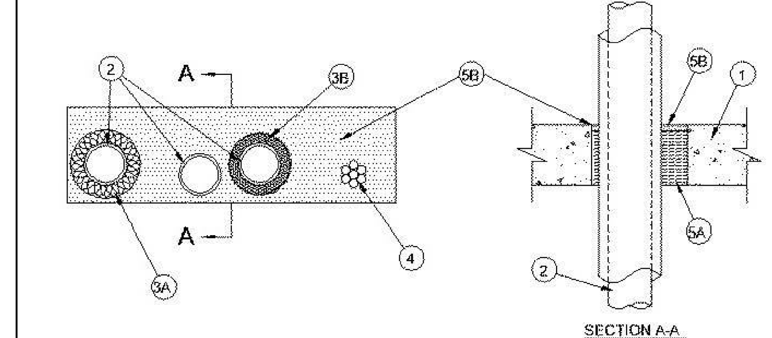
Through-penetration Firestop Systems

System No. C-AJ-8099

August 03, 2007

F Rating — 3 Hr

T Ratings — 0 and 3/4 Hr (See Item 2)



1. **Floor or Wall Assembly** — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete floor or min 5 in. (127 mm) reinforced lightweight or normal weight concrete wall. Wall may also be constructed of any UL Classified **Concrete Blocks***. Floor may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow core **Precast Concrete Units***. Max area of square, rectangular or circular opening is 192 sq in. (1239 cm^2) with max dimension of 24 in. (61 cm). When Precast Concrete Unit floors are used, max area of square, rectangular or circular opening is 49 sq in. (316 cm^2) with max dimension of 7 in. (17.8 cm).

See **Concrete Blocks** (CAZT) and **Precast Concrete Units** (CFTV) categories in the Fire Resistance Directory for names of manufacturers.

2. **Through-Penetrant** — One or more pipes or tubes to be installed within the opening. The total number of through-penetrants is dependent on the size of the opening and types and sizes of the penetrants. Any combination of the penetrants described below may be used provided that the following parameters relative to the annular spaces and the spacings between the pipes are maintained. The separation between cable bundle, tubes and insulated tubes shall be a min 1/2 in. (13 mm) to max 3-1/8 in. (79 mm). The annular space between penetrants and the periphery of opening shall be a min 1/2 in. (13 mm) to max 5 in. 127 mm). Pipes or tubes to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubes may be used.

A. **Copper Tubing** — Nom 3 in. (76 mm) diam (or smaller) Type L (or heavier) copper tube.

B. **Copper Pipe** — Nom 3 in. (76 mm) diam (or smaller) Regular (or heavier) copper pipe.

C. **Steel Pipe** — Nom 3 in. (76 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

D. **Iron Pipe** — Nom 3 in. (76 mm) diam (or smaller) cast or ductile iron pipe.

E. **Conduit** — Nom 3 in. (76 mm) diam (or smaller) electric metallic tubing (EMT) or steel conduit.

F. **Flexible Steel Conduit+** — Nom 1 in. (25 mm) diameter (or smaller) flexible steel conduit.

See **Flexible Metal Conduit** (DXUZ) category in the Electrical Construction Material Directory for names of manufacturers.

G. **Through Penetrating Product*** — Flexible Metal Piping — The following types of steel flexible metal gas piping may be used:

1.) Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

OMEGA FLEX INC

2.) Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

GASTITE, DIV OF TITEFLEX

3.) Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

WARD MFG L L C

The hourly T Rating is 3/4 hr when a pipe or tube with fiber-glass insulation is used, or 0 hr when a pipe or tube, a pipe or tube with AB/PVC insulation or a cable bundle is used. T he T Rating is 0 hr when metallic penetrants without pipe insulation are used.

3. **Pipe Insulation** — (Optional)—The following types of pipe insulation may be used with metallic penetrants (Items 2A, 2B, 2C, 2D and 2F):

A. **Pipe Covering*** — Nom 1 in. (25 mm) thick (or thinner) hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m^3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product.

See **Pipe and Equipment Covering - Materials** (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classifica tion Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

B. **Tube Insulation-Plastics+++** — Nom 3/4 in. (19 mm) thick (or thinner) acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing.

See **Plastics+++** (QMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.

4. **Cables** — Max 2 in. (51 mm) diam tight bundle of cables installed within the opening and rigidly supported on both sides of floor or wall assembly. The space between the cables and periphery of the opening shall range from min 2 in. (51 mm) to max 4 in. (102 mm). Any combination of the following types and sizes of metallic conductor of fiber optic cable may be used:

A. Max 500 kcmil single copper connector power cable with thermoplastic insulation and polyvinyl chloride (PVC) jacket.

B. Max 300 pair No. 24 AWG copper conductor telecommunication cables with PVC insulation and jacket material.

C. Max 7/C copper conductor No. 12 AWG multiconductor power and control cables with PVC or cross-linked polyethylene (XLPE) insulation and PVC jacket.

D. Multiple fiber optical communication cables jacketed with PVC and having a max outside diam of 1/2 in.

E. Max 3/C copper conductor No. 12 AWG with bare aluminum ground, PVC insulated steel **Metal-Clad** cable.

5. **Firestop System** — The firestop system shall consist of the following:

A. **Packing Material** — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m^3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or both surfaces of wall to accommodate the required thickness of fill material. When Precast Concrete Unit floors are used, packing material shall be installed at a thickness equal to the thickness of the floor minus 1/2 in. (13 mm), flush with bottom surface of floor.

B. **Fill Void or Cavity Materials* - Sealant** — Min 1/2 in. (51 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant

+++Bearing the UL Recognized Component Marking

*Bearing the UL Classification Mark

+Bearing the UL Listing Mark

drawing title		
UL LISTINGS — PENETRATIONS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES	volume: 1 of 2
REVISIONS — mark / date / description: 11-21-2012 Bid Documents	DRAWING PREPARED BY Centerbrook Architects and Planners, LLP 67 Main Street Post Office Box 955 Centerbrook, Connecticut 06409-0955	date: 11-21-2012 scale: 1/4" = 1'-0"
	project: SCSU NEW ACADEMIC LABORATORY BUILDING	drawn by: TCT approved by: RM/JBR
	CAD no.: 1393 / project no.: BI-RS-283	drawing no.: G116

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System No. C-AJ-6006
XHEZ.C-AJ-6006
Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

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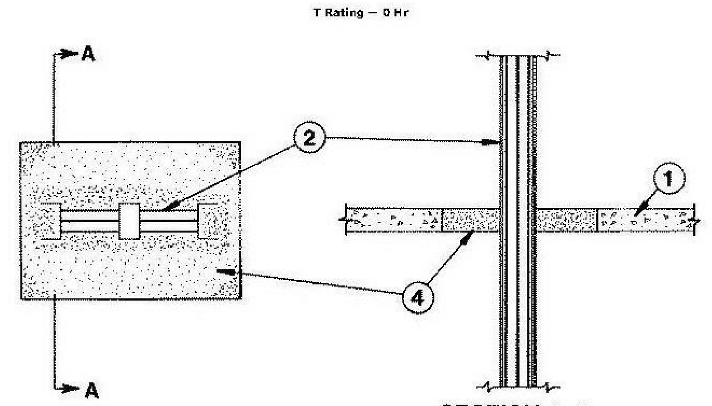
Through-penetration Firestop Systems

System No. C-AJ-6006

March 19, 2012

F Rating — 3 Hr

T Rating — 0 Hr



1. **Floor or Wall Assembly** — Min 2-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max area of opening is 560 sq in. with max dimension of 28 in.

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Busway+** — Nom 23 in. wide (or smaller) by 4.5 in. deep (or smaller) "I" shaped aluminum enclosure containing factory mounted aluminum bars rated for 600 V, 4000 A or copper bars rated for 600V, 5000A. The busway shall bear the UL Listing Mark and shall be installed in accordance with all provisions of Article 364 of the National Electrical Code, NFPA No. 70. The annular space between the busway and the periphery of the opening shall be a min of 1 in.

3. **Forms** — (Not Shown) — Used as a form to prevent leakage of fill material during installation. Forms to be a rigid sheet material, cut to fit the contour of the penetrating item and positioned as required to accommodate the required thickness of fill material. Forms may be removed after fill material has cured.

4. **Fill, Void or Cavity Material* — Mortar** — Min 2-1/2 in. thickness of fill material applied within the annulus. Fill material mixed at a rate of 2.5 parts dry mix to one part water by weight in accordance with the installation instructions supplied with fill material.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP636 or CP637

*Bearing the UL Classification Marking

+Bearing the UL Listing Mark

System No. W-L-8004
XHEZ.W-L-8004
Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

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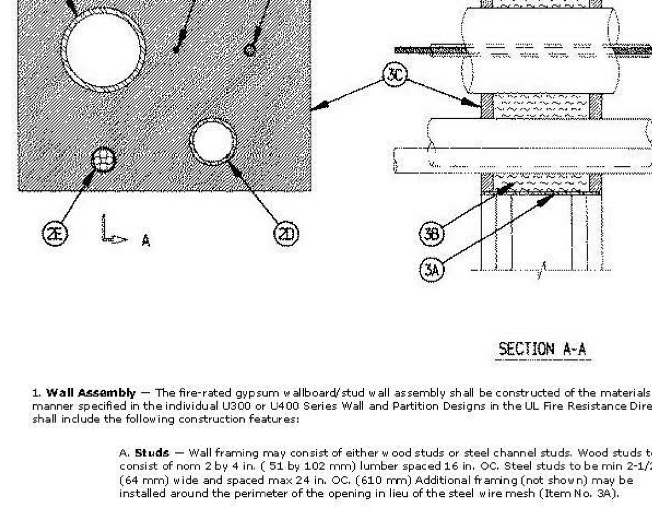
Through-penetration Firestop Systems

System No. W-L-8004

October 08, 2007

F Rating — 2 Hr

T Rating — 1/4 Hr



1. **Wall Assembly** — The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. OC. (610 mm) Additional framing (not shown) may be installed around the perimeter of the opening in lieu of the steel wire mesh (Item No. 3A).

B. **Gypsum Board*** — Two layers of nom 5/8 in. (16 mm) thick gypsum wallboard, as specified in the individual Wall and Partition Design. Max area of opening is 96 sq in. (692 cm^2) with max dimension of 12 in. (305 mm) Max width of opening in wood stud walls is limited to 12 in. (305 mm)

2. **Through Penetrants** — The following types and sizes of pipes, conduits, tubing or cables may be used:

A. Nom 3 in. (76 mm) diam (or smaller) electrical metallic tubing (EMT).

B. Max 25 pair — No. 24 AWG (or smaller) telephone cable with polyvinyl chloride (PVC) insulation and jacket.

C. Max 3/C with ground — No. 10 AWG (or smaller) Type NM cable with PVC insulation and jacket.

D. Nom 2 in. (51 mm) diam (or smaller) Schedule 40 PVC pipe for use in closed (process or supply) piping systems only.

E. Max 300 kcmil (or smaller) power cable with PVC insulation and nylon jacket.

The through penetrating items to be rigidly supported on both sides of wall assembly and located as shown in the table below:

Item No.	Max Distance Between Adjacent Pen. Item In. (mm)	Min Distance Between Adjacent Pen. Item In. (mm)	Max Distance From Through Opening In.(mm)	Min Distance From Through Opening In.(mm)
2A	7-7/16 (189)	1-11/16 (43)	14-1/2(370)	½ (13 mm)
2B	7-7/16 (189)	1-11/1 (43)6	14-1/2(370)	1/2 (13 mm)
2C	7-7/16 (189)	1-11/16 (43)	14-1/2(370)	1/2 (13 mm)
2D	7-7/16 (189)	1-11/16 (43)	14-1/2(370)	1/2 (13 mm)
2E	7-7/16 (189)	1-11/16 (43)	14-1/2(370)	1-1/2 (32 mm)

3. **Firestop System** — The firestop system shall consist of the following:

A. **Steel Wire Mesh** — No. 8 steel wire mesh having a min 1 in. (25 mm) lap along the longitudinal seam. Length of steel wire mesh to be 4-3/4 in., (120 mm) centered and formed to fit periphery of through opening. Steel wire mesh is not required when additional framing members (Item No. 1A) are used.

B. **Packing Material** — Min 4.0 in. (102 mm) thickness of min 3.5 pcf (56 kg/m^3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.

C. **Fill, Void or Cavity Material* — Sealant** — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant

*Bearing the UL Classification Mark

System No. W-L-1054
XHEZ.W-L-1054
Through-penetration Firestop Systems

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Design/System/Construction/Assembly Usage Disclaimer

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- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
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Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

System No. W-L-1054

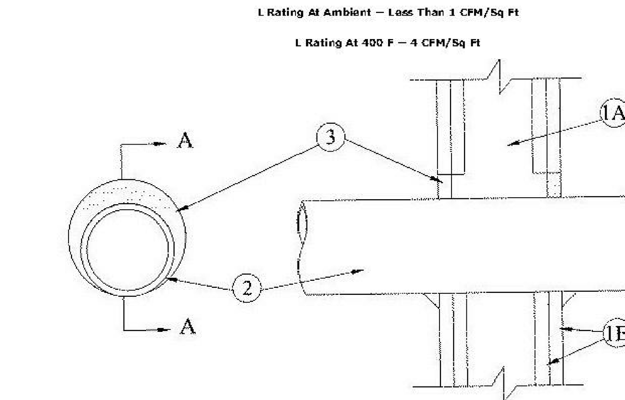
December 04, 2002

F Ratings — 1 and 2 Hr (See Items 1 and 3)

T Rating — 0 Hr

L Rating At Ambient — Less Than 1 CFM/Sq Ft

L Rating At 400 F — 4 CFM/Sq Ft



1. **Wall Assembly** — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.

B. **Gypsum Board*** — 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. for steel stud walls. Max diam of opening is 14-1/2 in. for wood stud walls.

The F Rating of the firestop system is equal to the fire rating of the wall assembly.

2. **Through-Penetrants** — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. Pipe may be installed with continuous point contact. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. **Steel Pipe** — Nom 30 in diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe** — Nom 30 in. diam (or smaller) cast or ductile iron pipe.

C. **Conduit** — Nom 4 in diam (or smaller) steel electrical metallic tubing or 6 in. diam steel conduit.

D. **Copper Tubing** — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.

E. **Copper Pipe** — Nom 6 in. diam (or smaller) regular (or heavier) copper pipe.

3. **Fill, Void or Cavity Material* — Sealant** — Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant

*Bearing the UL Classification Mark

System No. W-L-7040
XHEZ.W-L-7040
Through-penetration Firestop Systems

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Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

System No. W-L-7040

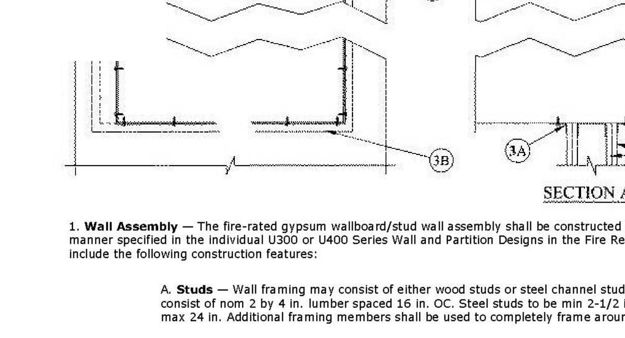
August 27, 2010

F Ratings — 1 and 2 Hrs (See Items 1 and 3)

T Rating — 0 Hr

L Rating at Ambient — Less Than 1 CFM/sq ft

L Rating at 400 F — Less Than 1 CFM/sq ft



1. **Wall Assembly** — The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the Fire Resistance Directory and shall include the following construction features:

A. **Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. Additional framing members shall be used to completely frame around opening.

B. **Gypsum Board*** — Nom 5/8 in. thick with square or tapered edges. The gypsum wallboard type, number of layers and sheet orientation shall be as specified in the individual Wall and Partition Design Number. Max area of opening is 1300 in. with the dimension of 50 in. **The hourly F rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.**

2. **Steel Duct** — Nom 24 in. by 48 in. (or smaller) No. 24 gauge (or heavier) galv steel duct to be installed within the firestop system. The annular space shall be min 0 (point contact) in. to a max 2 in. Duct to be rigidly supported on both sides of the wall assembly.

3. **Firestop System** — The firestop system shall consist of the following:

A. **Fill, Void or Cavity Material*—Sealant** — Min 5/8 in. thickness of fill material applied within annulus flush with both surfaces of wall. At point contact location, a min 1/2 in. diam bead of fill material shall be applied to the wall/duct interface on both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant, CP601S Elastomeric Firestop Sealant or CP606 Flexible Sealant.

B. **Steel Retaining Angle** — No. 18 MSG (0.048 in.) galv steel angles cut to fit contour of duct with a 2 in. overlap on the duct and a min 1 in. overlap on the gypsum board assembly on both sufaces of wall. 2 in. leg of angle secured to duct with min No. 8 by 3/4 in. long sheet metal screws, spaced a max of 6 in. OC. When bead of fill material is used at joint contact locations, angles shall be installed prior to full material curing.

*Bearing the UL Classification Mark

Last Updated on 2010-08-27

System No. W-L-2078
XHEZ.W-L-2078
Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

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Through-penetration Firestop Systems

System No. W-L-2078

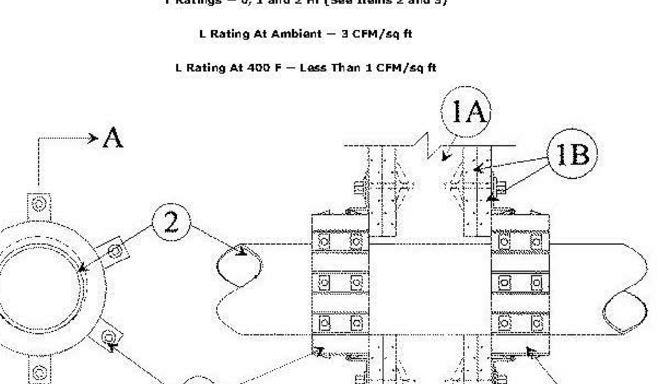
November 29, 2005

F Ratings — 1 and 2 Hr (See Item 1)

T Ratings — 0, 1 and 2 Hr (See Items 2 and 3)

L Rating At Ambient — 3 CFM/sq ft

L Rating At 400 F — Less Than 1 CFM/sq ft



1. **Wall Assembly** — The fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL fire Resistance Directory and shall include the construction features noted below:

A. **Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced max 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.

B. **Gypsum Board*** — Nom 5/8 in. thick gypsum board, as specified in the individual Wall and Partition Design. Max diam of opening is 11-1/2 in.

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Through-Penetrants** — One nonmetallic pipe, conduit or tubing to be installed within the firestop system. The annular space between pipe and periphery of opening shall be min 0 in. (point contact) to max 1/2 in. Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes may be used:

A. **Polyvinyl Chloride (PVC) Pipe** — Nom 10 in. diam (or smaller) Schedule 40 solid-core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.

B. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom 10 in. diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.

C. **Acrylonitrile Butadiene Styrene (ABS) Pipe** — Nom 6 in. diam (or smaller) Schedule 40 solid-core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems

D. **Flame Retardant Polypropylene (FRPP) Pipe** — Nom 6 in. diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.

E. **Polyvinylidene Fluoride (PVDF) Pipe** — Nom 4 in. diam (or smaller) PVDF pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.

When max 6 in. diam pipe is used, T Rating is equal to the hourly fire rating of the wall. When nom 8 in. or 10 in. diam pipe is used, T Rating is 0 hr.

3. **Firestop Device* — Firestop Collar** — Firestop collar shall be installed in accordance with the accompanying installation instructions. Collar to be installed and latched around the pipe and secured to both sides of the wall using the anchor hooks provided with the collar. (Minimum two anchor hooks for 1-1/2 and 2 in. diam pipes, three anchor hooks for 3 and 4 in. diam pipes, four anchor hooks for 6 in. diam pipes, ten anchor hooks for 8 in. diam pipes and twelve anchor hooks for 10 in. diam pipes). The anchor hooks are to be secured to the surface of wall with 3/16 in. diam by 2-1/2 in. long steel toggle bolts along with washers. As an alternate for pipe sizes of nom 4 in. diam or less, min No. 10 by 1-1/2 in. long drywall or laminate screws with min 3/4 in. steel washers may be used. **When the drywall or laminate screw is used, T**

Rating shall not exceed 1 hr.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 643 50/1.5"N, CP 643 63/2"N, CP 643 90/3"N, CP 643 110/4"N, CP 643 160/6"N, CP 644 200/8" andCP 644 250/10" Firestop Collars

4. **Fill, Void or Cavity Material* — Sealant - (Not Shown)** — Min 1/2 in. thickness of sealant applied within the annular space for nom 8 in. and 10 in. diam pipes, flush with each side of wall. Sealant in annular space is optional for max 6 in. diam pipes. A min 1/4 in. thickness of sealant is required within the annular space, flush with each side of wall, to attain the L Ratings for max 6 in. diam pipes.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant

*Bearing the UL Classification Mark

System No. W-L-3065
XHEZ.W-L-3065
Through-penetration Firestop Systems

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Design/System/Construction/Assembly Usage Disclaimer

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Through-penetration Firestop Systems

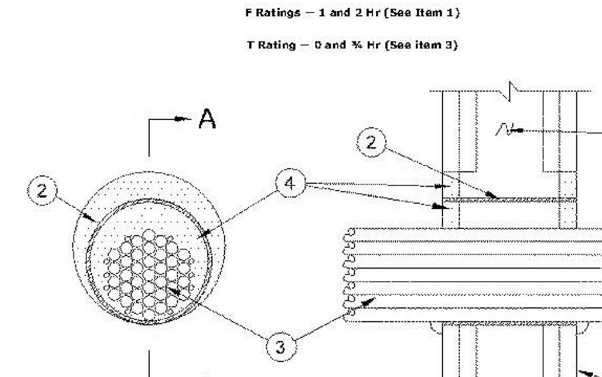
See General Information for Through-penetration Firestop Systems

System No. W-L-3065

March 15, 2012

F Ratings — 1 and 2 Hr (See Item 1)

T Rating — 0 and ¾ Hr (See item 3)



1. **Wall Assembly** — The 1 or 2 fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board*** — Nom 5/8 in. (16 mm) thick gypsum board, with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 5-1/2 in. (138 mm) when sleeve (Item 2) is employed. Max diam of opening is 4 in. (102 mm) when sleeve (Item 2) is not employed.

The F Rating of the firestop system is equal to the fire rating of the wall assembly.

2. **Metallic Sleeve** — (Optional) - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or Schedule 5 (or heavier) steel pipe or min 0.016 in. thick (0.41 mm, No. 28 ga) galv steel sleeve installed flush with wall surfaces. The annular space between steel sleeve and periphery of opening shall be min 0 in. (0 mm, point contact) to max 1 in. (25mm). When Schedule 5 steel pipe or EMT is used, sleeve may extend up to 18 in. (457 mm) beyond the wall surfaces. As an option when Schedule 5 steel pipe or EMT is used, sleeve may extend continuously beyond one wall surfaces. When cable bundle penetrates wall assembly at an angle of 45 degrees, no metallic sleeve is used.

3. **Cables** — Aggregate cross-sectional area of cable in opening to be max 45 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening to be min 0 in. (0 mm, point contact) to max 1 in. (25 mm) Cables to be rigidly supported on both sides of the wall assembly. Cable bundle, using cables described below, may penetrate the wall at an angle not greater than 45 degrees. Any combination of the following types and sizes of copper conductor cables may be used:

A. Max 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and jacket.

B. Max 25 pair No. 24 AWG telephone cable with PVC insulation and jacket.

B1. Max 4 pr No. 22 AWG Cat 5 or Cat 6 computer cables.

C. Type RG/U coaxial cable with polyethylene (PE) insulation and PVC jacket having a max outside diameter of ½ in. (13 mm).

C1. Max RG 6/U coaxial cable with fluorinated ethylene insulation and jacketing.

D. Multiple fiber optical communication cable jacketed with PVC and having a max OD of 5/8 in. (16 mm).

E. Through Penetrating Products*— Max three copper conductor No. 8 AWG .**Metal-Clad Cable+**.

AFC CABLE SYSTEMS INC

F. Max 3/C (with ground)(or smaller) No. 8 AWG copper conductor cable with PVC insulation and jacketing.

G. Max 3/4 in. (19 mm) diam copper ground cable with or without a PVC jacket.

H. Fire Resistive Cables* - Max 1-1/4 in. (32 mm) diam single conductor or multi conductor Type MI cable. A min 1/8 in. (3 mm) separation shall be maintained between MI cables and any other types of cable.

I. Max 4/C with ground 300 kcmil (or smaller) aluminum SER cable with PVC insulation and jacket.

J. **Through Penetrating Product*** - Any cables, **Metal-Clad Cable+** or **Armored Cable+** currently Classified under the **Through Penetrating Products** category.

K. Maximum 3/C No. 8 AWG metal-clad cable.

L. Maximum 5/8 diam fiber-optic cable with PVC jacket.

For cable bundle penetrating the wall assembly at an angle of 45 degrees, the T rating is ¾ hr for a 2 hr wall assembly.

See **Through Penetrating Product** (XHLY) category in the Fire Resistance Directory for names of manufacturers.

4. **Fill, Void or Cavity Material*— Sealant or Putty** — Fill material applied within the annulus, flush with each end of the steel sleeve or wall surface. Fill material installed symmetrically on both sides of the wall. A min 5/8 in. (16 mm) thickness of sealant is required for the 1 or 2 hr F Rating . An additional 1/2 in. (13 mm) diam bead of fill material shall be applied around the perimeter of sleeve on both sides of the wall when sleeve extends beyond surface of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP601S, CP606, FS-One Sealants or CP618 Putty

*Bearing the UL Classification Mark

+Bearing the UL Listing Mark

Last Updated on 2012-03-15

System No. W-L-4011
XHEZ.W-L-4011
Through-penetration Firestop Systems

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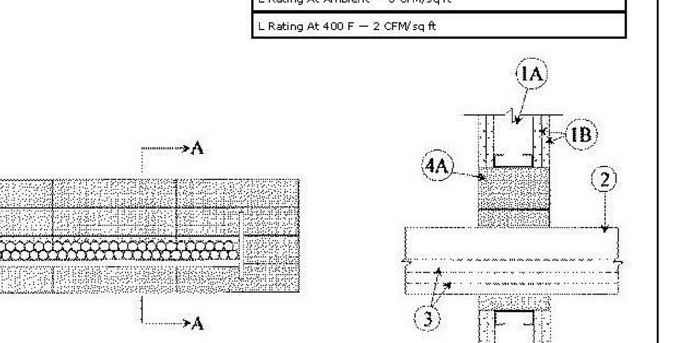
XHEZ - Through-penetration Firestop Systems

XHEZ7 - Through-penetration Firestop Systems Certified for Canada

System No. W-L-4011

December 13, 2011

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating At Ambient — 5 CFM/sq ft	FH Ratings — 1 and 2 Hr (See Item 1)
L Rating At 400 F — 2 CFM/sq ft	FTH Rating — 0 Hr
	L Rating At Ambient — 5 CFM/sq ft
	L Rating At 400 F — 2 CFM/sq ft



1. **Wall Assembly** — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 in. (51 mm) by 4 in. (102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. Additional framing member shall be installed in stud cavity containing through-penetrating item to form a rectangular box around penetrant.

B. **Gypsum Board*** — 5/8 in. (16 mm) thick, 4 ft (1219 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400, V400 or W400 Series Design in the UL Fire Resistance Directory. Max size of opening 9 in. (229 mm) by 30 in. (762 mm).

The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

Min finished wall thickness is 5 in. (127 mm).

2. **Cable Tray*** — Max 24 in. (610 mm) wide by max 6 in. (152 mm) deep open-ladder or solid-back cable tray with channel-shaped side rails formed of 0.10 in. (2.54 mm) thick aluminum or 0.060 in. (1.54 mm) thick steel and with 1-1/2 in. (38 mm) wide by 1 in. (25 mm) channel shape rungs spaced 9 in. (229 mm) OC or a 0.029 in. (0.74 mm) thick steel solid back, respectively. The annular space between the cable tray and the periphery of the opening shall be min 0 in. (point contact) to max 4 in. (102 mm). Cable tray to be rigidly supported on both sides of floor or wall assembly.

3. **Cables** — Aggregate cross-sectional area of cables in cable tray to be max 45 percent of the cross-sectional area of the cable tray based on a max 5 in. (127 mm) cable loading depth. Any combination of the following types and sizes of copper conductor cables may be used:

A. 1/C, 750 kcmil (or smaller) power cable with EPR insulation and PVC jacket.

B. 300 pair — No. 24 AWG cable with PVC insulation and jacket

C. Twenty-four fiberoptic cable with PVC subunit and jacket.

D. Max three 1/C, No. 12 AWG wire, insulated with polyvinyl chloride, in a nom 3/4 in. (19 mm) **Flexible Metal Conduit+**.

4. **Firestop System** — The firestop system shall consist of the following:

A. **Fill, Void or Cavity Material* - Fire Blocks** — For walls incorporating max 3-5/8 in. (92 mm) steel studs or max 2 in. (51 mm) by 4 in. (102 mm) wood studs, fire block installed with 5 in. (127 mm) dimension projecting through and centered in opening. For walls constructed of larger steel or wood studs, fire block installed with long dimension passing through and centered in opening. Blocks may or may not be cut flush with both surfaces of wall. When multiple layers of gypsum board are used, blocks may be recessed 1/2 in. (13 mm) from surface of wall. Blocks firmly packed within opening. Either one or a combination of the block types specified below may be used.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-657 Fire Block or CFS-BL Firestop Block

B. **Fill, Void or Cavity Material* - Sealant or Putty (Not shown)** — Fill material to be forced into interstices of cables and between cables and cable trays to max extent possible on both surfaces of the penetration.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or CP618 Firestop Putty Stick (Note: L Ratings apply only when FS-One Sealant is used)

+Bearing the UL Listing Mark

*Bearing the UL Classification Mark

System No. W-L-5029
XHEZ.W-L-5029
Through-penetration Firestop Systems

Page Bottom

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Listed or Classified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered as Classified, Listed, or Recognized.

XHEZ - Through-penetration Firestop Systems

XHEZ7 - Through-penetration Firestop Systems Certified for Canada

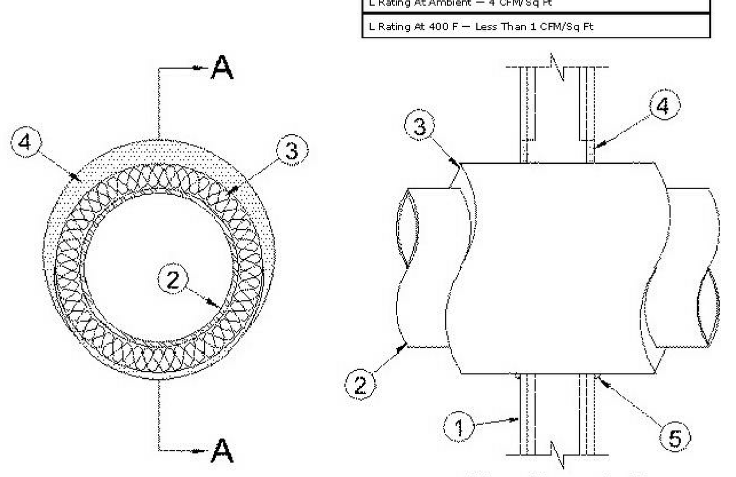
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-5029

May 30, 2012

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1, 2 and 3 Hr (See Items 1, 3 and 4)	F Ratings — 1, 2 and 3 Hr (See Items 1, 3 and 4)
T Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)	FT Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)
L Rating At Ambient — 4 CFM/Sq Ft	FH Ratings — 1, 2 and 3 Hr (See Items 1, 2 and 4)
L Rating At 400 F — Less Than 1 CFM/Sq Ft	FTH Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)
	L Rating At Ambient — 4 CFM/Sq Ft
	L Rating At 400 F — Less Than 1 CFM/Sq Ft



1. **Wall Assembly** — The 1, 2 or 3 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide for 1 and 2 hr F and FH rating and 3-1/2 in. (89 mm) wide for 3 hr F and FH rating and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board*** — Min 5/8 in. (16 mm) thick with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 18-5/8 in. (473 mm).

The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Through Penetrants** — One metallic pipe or tubing to be installed within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:

A. **Steel Pipe** — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe** — Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.

C. **Copper Tubing** — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing. **When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper tube shall not exceed 4 in. (102 mm).**

D. **Copper Pipe** — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe. **When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper pipe shall not exceed 4 in. (102 mm).**

3. **Pipe Covering*** — Nom 1, 1-1/2 or 2 in. (25, 38 or 51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m^3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. For 1 and 2 hr F and FH Ratings, the annular space between insulated penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm). For 3 hr F and FH Ratings, the annular space shall be min 0 in. (point contact) to max 1-1/4 in. (32 mm).

See **Pipe and Equipment Covering — Materials** (BRGU) category in the Building Material Directory for the names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

The hourly T, FT, FTH Ratings of the firestop system are 1/2 hr for 1 hr rated walls and 1 hr for 2 hr rated walls. For 3 hr rated walls, the hourly T, FT and FTH Ratings when steel and iron pipes are used are 1 hr. For 3 hr rated walls, the hourly T, FT and FTH Ratings when copper penetrants are used are 1-1/4 hr for 2 in. (51 mm) thick pipe covering and 0 hr for pipe covering thickness less than 2 in. (51 mm).

3A. **Pipe Covering*** — (Not Shown) — As an alternate to Item 3, max 2 in. (51 mm) thick cylindrical calcium silicate (min 14 pcf) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 18 AWG stainless steel wire spaced max 12 in. (305 mm) OC. When the alternate pipe covering is used, the T and FT Rating shall be as specified in item 3 above.

See **Pipe and Equipment Covering — Materials** (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

4. **Fill, Void or Cavity Material* — Sealant** — For 1 and 2 hr F and FH Rating, min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. For 3 hr F and FH Rating, min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe covering and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant

*Bearing the UL Classification Mark

drawing title: U.L. LISTINGS — PENETRATIONS

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

volume: 1 of 2

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

date: 11-21-2012
scale: 1/4" = 1'-0"

project: SCSU NEW ACADEMIC LABORATORY BUILDING

drawn by: TCT
approved by: RM / JBR
drawing no.: G117

CAD no.: 1393
project no.: BI-RS-283

C:\Revit Local Files\1393 SCSU New Academic and Laboratory Building A12 Central_saffran.rvt

11/21/2012 12:01:38 PM

CONSTRUCTION FENCE (TYP.)
-6' FENCE ON WEIGHTED STANCHIONS
-SCREEN FABRIC WITH WIND FLAPS
-ALL VEHICLE GATES ON DRIVEN POSTS
-INCLUDE THREE 4' WIDE PEDESTRIAN GATES
-EXACT LOCATION OF ALL FENCE AND GATES AS DIRECTED BY CONSTRUCTION MANAGER

RETAIN EXISTING PAVEMENT FOR JENNINGS LOADING DOCK TRUCK TURN-AROUND ZONE. RETAIN UNTIL CONSTRUCTION OF NEW ACCESS DRIVE IS COMPLETED.

MAINTAIN EXISTING PAVEMENT FOR LOADING DOCK TRUCK TURN-AROUND ZONE. MAINTAIN UNTIL CONSTRUCTION OF NEW ACCESS DRIVE CONFIGURATION IS COMPLETED

EXISTING JENNINGS HALL EXIT TO GRADE AT NORTHWEST STAIR TO BE CLOSED FOR CONSTRUCTION DURATION. INTERIOR EXIT SIGNAGE TO BE ALTERED AS REQUIRED

MATERIALS STORAGE AND STAGING AREA

MAINTAIN EXISTING SIDEWALK ACCESS TO JENNINGS AND MORRILL HALL FOR INITIAL CONSTRUCTION PHASES. RECONFIGURE SIDEWALKS IN PHASES NEAR PROJECT COMPLETION.

MAINTAIN SIDEWALK ACCESS

ACCESS TO EXISTING JENNINGS LOADING DOCK
-REMOVE EXISTING CURB FOR FLUSH CONDITION
-TEMPORARY BITUMINOUS PAVEMENT (HATCHED AREA)
-REMOVE AND RESTORE UPON COMPLETION

SERVICE VEHICLES/ DELIVERIES ONLY SIGN

SECONDARY CONSTRUCTION ENTRANCE
-STONE CONSTRUCTION ENTRANCE (SEE SHEET C105)
-20' GATE AT CONSTRUCTION ENTRANCE

CONSTRUCTION ENTRANCE SIGN

SIDEWALK CLOSED SIGN

MAINTAIN EXISTING ENTRANCE/DROP-OFF LOOP
-PHASED SHUTDOWNS AS REQUIRED FOR UTILITY ROUTING

PROJECT I.D. SIGN EXACT LOCATION TBD

SUBCONTRACTOR FIELD OFFICES AREA

STONE CONSTRUCTION ENTRANCE (SEE SHEET C105)

CONSTRUCTION MANAGER FIELD OFFICE AREA

STOP SIGN

CONSTRUCTION ENTRANCE SIGN

PRIMARY CONSTRUCTION ENTRANCE
-20' GATE AT CONSTRUCTION ENTRANCE
-TEMPORARY BITUMINOUS PAVEMENT
-REMOVE/RESTORE AT COMPLETION

EMERGENCY CONSTRUCTION AREA ENTRANCE WITH 12' GATE

REMOVE ISLAND AND CURB AND TEMPORARILY PAVE (TYP. OF 2 LOCATIONS)

TEMPORARILY STRIPED TRAFFIC ISLAND
-TYPICAL OF 5 LOCATIONS AT EXISTING TRAFFIC ISLANDS
-BLACK OUT UNUSED PARKING SPACES

SIDEWALK CLOSED SIGN

PELTZ GYMNASIUM #2

TEMPORARY BUILDING 7 F.F.E.=60.44

JENNINGS HALL (SCIENCE BUILDING) #5 F.F.E.=60.20

MORRILL HALL #6

ENGLEMAN HALL #9

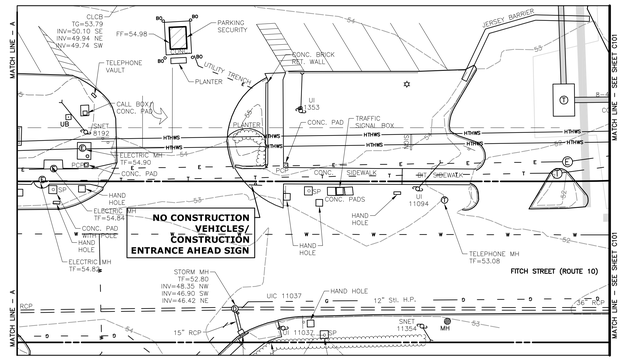
POWER PLANT #3 (REMOVED)

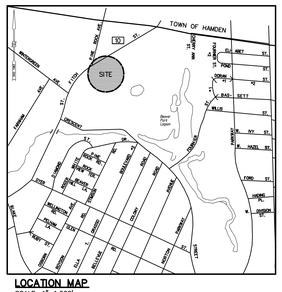
POWER PLANT #4 (REMOVED)

PROPOSED BUILDING

FITCH STREET (ROUTE 10)

MATCH LINE – SEE SHEET C101





LOCATION MAP
SCALE: 1"=1,000'

LEGEND

	STREET LINE		GAS VALVE
	BUSHES		BOLLARD
	GUARDRAIL		POST
	WOOD FENCE		GATE POST
	PICKET FENCE		SUPPORT POLE
	CHAIN LINK FENCE		PEDESTRIAN CROSSING POST
	DRAINAGE MANHOLE		HYDRANT
	SANITARY MANHOLE		UTILITY POLE
	MANHOLE		GUY WIRE
	ELECTRIC MANHOLE		LIGHT POST
	TELEPHONE MANHOLE		SIGN
	WATER MANHOLE		MONITORING WELL
	YARD DRAIN		CONCRETE MONUMENT FOUND
	CATCH BASIN		DOUBLE CATCH BASIN
	BORING		WATER VALVE
	TEST PIT		

SURVEY NOTES:

1. THIS MAPPING IS BASED UPON A TOPOGRAPHIC SURVEY PREPARED BY MILONE & MACBROOM, INC. DATED JULY 26, 2010 AND REVISED NOV. 4, 2010. THIS SURVEY WAS PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20–300b–1 THROUGH 20–300b–20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996. IT IS A TOPOGRAPHIC SURVEY CONFORMING TO TOPOGRAPHIC ACCURACY CLASS T–2, AND IS INTENDED TO DEPICT THE EXISTING CONDITIONS OF THE SITE.
1. NORTH ARROW IS BASED UPON THE CONNECTICUT STATE PLANE COORDINATE SYSTEM (NAD 1983).
2. ELEVATIONS, CONTOURS, AND BENCHMARK ARE BASED UPON NAVD 1988.
3. REFERENCE IS HEREBY MADE TO THE FOLLOWING MAP:
   A. "CITY OF NEW HAVEN, PROJ. NO. S–3061, RELOCATION OF CRESCENT STREET IN THE VCINITY OF THE NEW HAVEN STATE TEACHERS COLLEGE INCLUDING A PORTION OF FITCH STREET AND WINTERGREEN AVE.", SCALE: 1"=40', DATED: MAY 1958 AND PREPARED BY: STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION.
4. INFORMATION REGARDING THE LOCATION OF UNDERGROUND UTILITIES HAS BEEN SUPPLIED BY OTHERS AND SHOULD BE CONSIDERED APPROXIMATE.

GENERAL NOTES:

1. ALL SUBCONTRACTOR PARKING SHALL BE OFF SITE AT SCSU CAMPUS PARKING AREA 7. THIS LOCATION IS 10 MINUTES WALKING DISTANCE TO THE JOB SITE. MORNING AND AFTERNOON SHUTTLE TO BE MADE AVAILABLE.
2. THIS PLAN IS INFORMATION AND INDICATES GENERAL PLANNED ARRANGEMENT OF SITE/CONSTRUCTION LOGISTICS FEATURES. EXACT LOCATION OF FEATURES WILL BE DETERMINED IN THE FIELD BY THE CONSTRUCTION MANAGER IN COORDINATION WITH SCSU AND MODIFIED AS REQUIRED FOR PROJECT PHASING AND CONSTRUCTION ACTIVITIES.
3. REFER TO DRAWING LD–100 FOR CONTRACT LIMIT LINE.

0 10' 20' 40'

TRUE N

EXISTING CONDITIONS/ CONSTRUCTION LOGISTICS

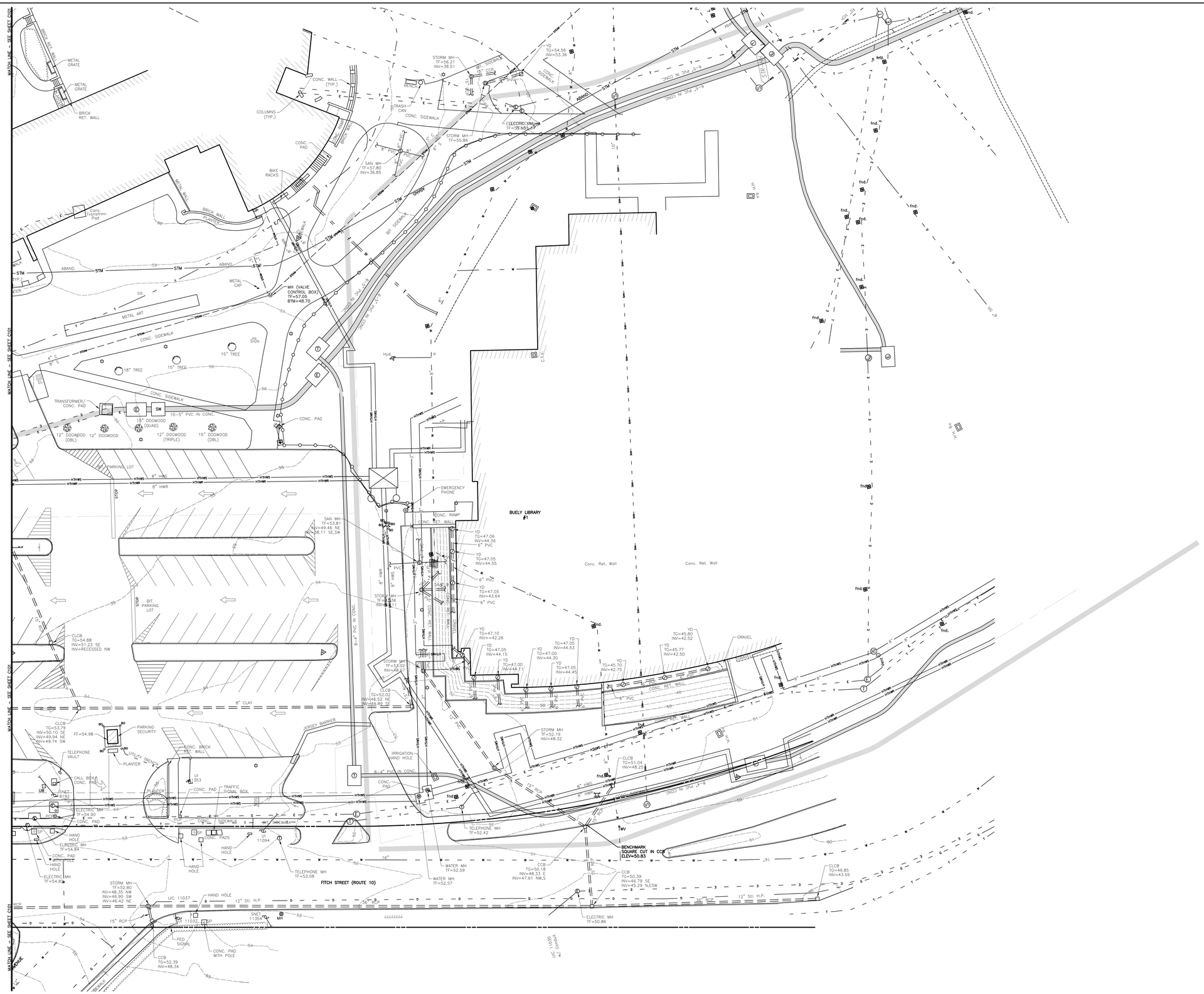
REVISION			
No.	Date	Description	By
	11-21-2012	Bid Documents	

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

DRAWING PREPARED BY: MILONE & MACBROOM, 99 Realty Drive, Cheshire, Connecticut 06410, (203) 271-1773, Fax (203) 271-8711, www.miloneandmacbroom.com
Engineering, Landscape Architecture and Environmental Science

SCSU ACADEMIC LABORATORY BUILDING

Sheet No.	1 of 2
Date	11-21-2012
Scale	1"=20'
Drawn By	DJK
Reviewed By	TD
Project No.	1393
Contract No.	BI-RS-283
Drawing No.	C100



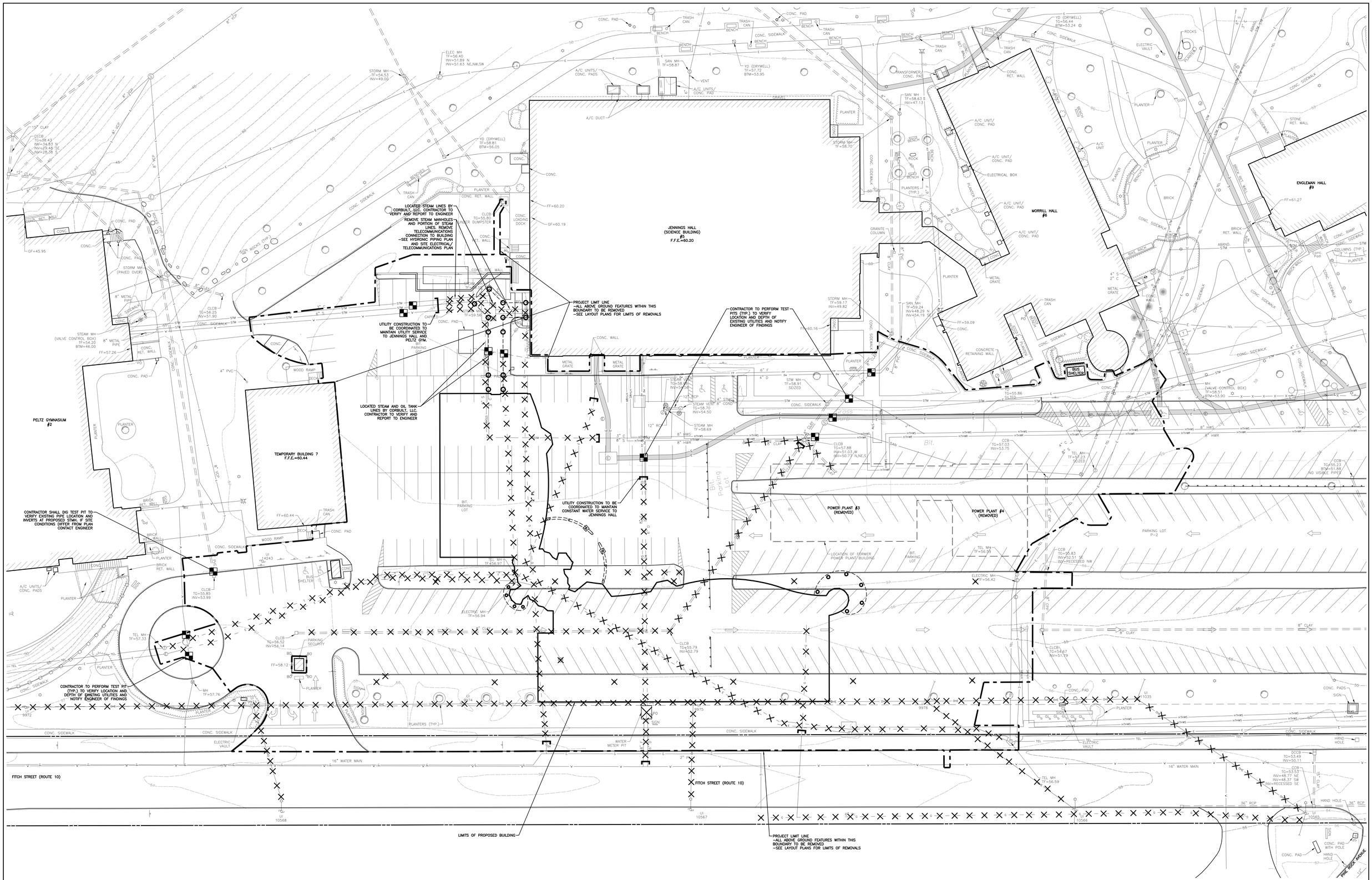
LEGEND

	STREET LINE	GV	GAS VALVE
	BUSHES	BO	BOLLARD
	GUARDRAIL	PO	POST
	WOOD FENCE	GP	GATE POST
	PICKET FENCE	SP	SUPPORT POLE
	CHAIN LINK FENCE	PCP	PEDESTRIAN CROSSING POST
	DRAINAGE MANHOLE	HYD	HYDRANT
	SANITARY MANHOLE	UP	UTILITY POLE
	MANHOLE		GUY WIRE
	ELECTRIC MANHOLE		LIGHT POST
	TELEPHONE MANHOLE		SIGN
	WATER MANHOLE		MONITORING WELL
	YARD DRAIN	MON	CONCRETE MONUMENT FOUND
	CATCH BASIN		DOUBLE CATCH BASIN
	BORING	WV	WATER VALVE
	TEST PIT		

0 10' 20' 40'

N E S W

EXISTING CONDITIONS	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS		Sheet 1 of 2
REVISIONS			
No. / Date / Description: 1 / 11-21-2012 / Bid Documents	PREPARED BY: MILONE & MACBROOM, 99 Realty Drive, Cheshire, Connecticut 06410, (203) 271-1773, Fax (203) 271-8711, www.miloneandmacbroom.com; Engineering, Landscape Architecture and Environmental Science		11-21-2012
			1"=20'
	SCSU ACADEMIC LABORATORY BUILDING		Drawn by: DJK
			Checked by: TD
	Job No.: 1393	Project No.: BI-RS-283	Drawing No.: C101



LEGEND

- UTILITY TO BE REMOVED
- CAP EXISTING UTILITY TO BE ABANDONED IN PLACE
- TEST PIT

NOTES

1. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "CALL BEFORE YOU DIG", 1-800-922-4455. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
2. MILONE & MACBROOM INC. ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF MAPS AND DATA WHICH HAVE BEEN SUPPLIED BY OTHERS.

0 10' 20' 40'

TRUE N

SHEET 06 SITE UTILITY REMOVAL PLAN	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		SHEET 1 of 2
REVISIONS: NO. / DATE / DESCRIPTION			DATE 11-21-2012
11x21-2012	Bid Documents		SCALE 1"=20'
	MILONE & MACBROOM. 99 Realty Drive, Cheshire, Connecticut 06410 (203) 271-1773 Fax (203) 271-8731 www.milaccmac.com; Engineering Science Architecture and Environmental Science		DRAWN BY DJK
	SCSU ACADEMIC LABORATORY BUILDING		CHECKED BY TD
	PROJ. NO. 1300	PROJ. NO. BI-RS-283	DRAWING NO. C102

SEDIMENT & EROSION CONTROL SPECIFICATIONS

GENERAL:

THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION, AS MAY BE REQUIRED, DURING THE CONSTRUCTION OF THE PROJECT.

IN GENERAL, ALL CONSTRUCTION ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATERBODY, AND CONDUIT CARRYING WATER, ETC. THE CONTRACTOR SHALL LIMIT, INSOFAR AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES, AND WATERBODIES, AND TO PREVENT, INSOFAR AS POSSIBLE, EROSION ON THE SITE. THIS INCLUDES, BUT IS NOT LIMITED TO, TAKING APPROPRIATE MEASURES TO CONTROL THE GENERATION OF DUST FROM CONSTRUCTION ACTIVITIES. WATER SHALL BE PROVIDED AND APPLIED AS REQUIRED OR AS ORDERED BY THE PROJECT ENGINEER FOR ALLAYING DIST CONDITIONS.

LAND GRADING

GENERAL:

1. THE RESHAPING OF THE GROUND SURFACE BY EXCAVATION AND FILLING OR A COMBINATION OF BOTH, TO OBTAIN PLANNED GRADES, SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:
   a. THE CUT FACE OF EARTH EXCAVATION SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
   b. THE PERMANENT EXPOSED FACES OF FILLS SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
   c. THE CUT FACE OF ROCK EXCAVATION SHALL NOT BE STEEPER THAN ONE HORIZONTAL TO FOUR VERTICAL (1:4).
   d. PROVISION SHOULD BE MADE TO CONDUCT SURFACE WATER SAFELY TO STORM DRAINS TO PREVENT SURFACE RUNOFF FROM DAMAGING CUT FACES AND FILL SLOPES.
   e. EXCAVATIONS SHOULD NOT BE MADE SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTY WITHOUT PROTECTING SUCH PROPERTY FROM EROSION, SLIDING, SETTLING, OR CRACKING.
   f. NO FILL SHOULD BE PLACED WHERE IT WILL SLIDE OR WASH UPON THE PREMISES OF ANOTHER OWNER OR UPON ADJACENT WETLANDS, WATERCOURSES, OR WATERBODIES.
   g. PRIOR TO ANY REGRADING, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PLACED AT THE ENTRANCE TO THE WORK AREA IN ORDER TO REDUCE MUD AND OTHER SEDIMENTS FROM LEAVING THE SITE.

TEMPORARY VEGETATIVE COVER

GENERAL:

1. TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED ON ALL UNPROTECTED AREAS THAT PRODUCE SEDIMENT, AREAS WHERE FINAL GRADING HAS BEEN COMPLETED, AND AREAS WHERE THE ESTIMATED PERIOD OF BARE SOIL EXPOSURE IS LESS THAN 30 DAYS. TEMPORARY VEGETATIVE COVER SHALL BE APPLIED IF AREAS WILL NOT BE PERMANENTLY SEEDED BY SEPTEMBER 1.

SITE PREPARATION:

1. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
2. REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
3. APPLY LIME ACCORDING TO SOIL TEST OR AT A RATE OF ONE (1) TON OF GROUND DOLOMITIC LIMESTONE PER ACRE (5 LBS. PER 100 SQ. FT.).
4. APPLY FERTILIZER ACCORDING TO SOIL TEST OR AT THE RATE OF 300 LBS. OF 10–10–10 PER ACRE (7 LBS. PER 1,000 SQ. FT.) AND SECOND APPLICATION OF 200 LBS. OF 10–10–10– (5 LBS. PER 1,000 SQ. FT.) WHEN GRASS IS FOUR INCHES (4") TO SIX INCHES (6") HIGH. APPLY ONLY WHEN GRASS IS DRY.
5. UNLESS HYDROSEEDED, WORK IN LIME AND FERTILIZER TO A DEPTH OF FOUR (4") INCHES USING A DISK OR ANY SUITABLE EQUIPMENT.
6. TILLAGE SHOULD ACHIEVE A REASONABLY UNIFORM LOOSE SEEDBED. WORK ON CONTOUR IF SITE IS SLOPING.

ESTABLISHMENT:

1. SELECT APPROPRIATE SPECIES FOR THE SITUATION. NOTE RATES AND SEEDING DATES (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW).
2. APPLY SEED UNIFORMLY ACCORDING TO THE RATE INDICATED BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
3. UNLESS HYDROSEEDED, COVER RYEGRASS SEEDS WITH NOT MORE THAN 1/4 INCH OF SOIL USING SUITABLE EQUIPMENT.
4. MULCH IMMEDIATELY AFTER SEEDING IF REQUIRED. (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW.) APPLY STRAW OR HAY MULCH AND ANCHOR TO SLOPES GREATER THAN 3% OR WHERE

EROSION CHECKS

GENERAL:

1. TEMPORARY PERVIOUS BARRIERS USING BALES OF HAY OR STRAW, HELD IN PLACE WITH STAKES DRIVEN THROUGH THE BALES AND INTO THE GROUND OR GEOTEXTILE FABRIC FASTENED TO A FENCE POST AND BURIED INTO THE GROUND, SHALL BE INSTALLED AND MAINTAINED AS REQUIRED TO CHECK EROSION AND REDUCE SEDIMENTATION.

CONSTRUCTION:

1. BALES SHOULD BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED INTO THE SOIL A MINIMUM OF FOUR (4") INCHES.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY WOOD STAKES OR REINFORCEMENT BARS DRIVEN THROUGH THE BALES AND INTO THE GROUND. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD THE PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
4. GEOTEXTILE FABRIC SHALL BE SECURELY ANCHORED AT THE TOP OF A THREE FOOT (3') HIGH FENCE AND BURIED A MINIMUM OF FOUR INCHES (4") TO THE SOIL. SEAMS BETWEEN SECTIONS OF FILTER FABRIC SHALL OVERLAP A MINIMUM OF TWO FEET (2').

INSTALLATION AND MAINTENANCE:

1. BALED HAY EROSION BARRIERS SHALL BE INSTALLED AT ALL STORM SEWER INLETS.
2. BALED HAY EROSION BARRIERS AND GEOTEXTILE FENCE SHALL BE INSTALLED AT THE LOCATION INDICATED ON THE PLAN AND IN ADDITIONAL AREAS AS MAY BE DEEMED APPROPRIATE DURING CONSTRUCTION.
3. ALL EROSION CHECKS SHALL BE MAINTAINED UNTIL ADJACENT AREAS ARE STABILIZED.
4. INSPECTION SHALL BE FREQUENT (AT MINIMUM MONTHLY AND BEFORE AND AFTER HEAVY RAIN) AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. EROSION CHECKS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.

ESTABLISHMENT:

1. SMOOTH AND FIRM SEEDBED WITH CULTIPACKER OR OTHER SIMILAR EQUIPMENT PRIOR TO SEEDING (EXCEPT WHEN HYDROSEEDING).
2. SELECT ADAPTED SEED MIXTURE FOR THE SPECIFIC SITUATION. NOTE RATES AND THE SEEDING DATES (SEE VEGETATIVE COVER SELECTION & MULCHING SPEC. BELOW).
3. APPLY SEED UNIFORMLY ACCORDING TO RATE INDICATED, BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
4. COVER GRASS AND LEGUME SEED WITH NOT MORE THAN 1/4 INCH OF SOIL WITH SUITABLE EQUIPMENT (EXCEPT WHEN HYDROSEEDING).
5. MULCH IMMEDIATELY AFTER SEEDING, IF REQUIRED, ACCORDING TO TEMPORARY MULCHING SPECIFICATIONS. (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW).
6. USE SOD WHERE THERE IS A HEAVY CONCENTRATION OF WATER AND IN CRITICAL AREAS WHERE IT IS IMPORTANT TO GET A QUICK VEGETATIVE COVER TO PREVENT EROSION.

GENERAL NOTES

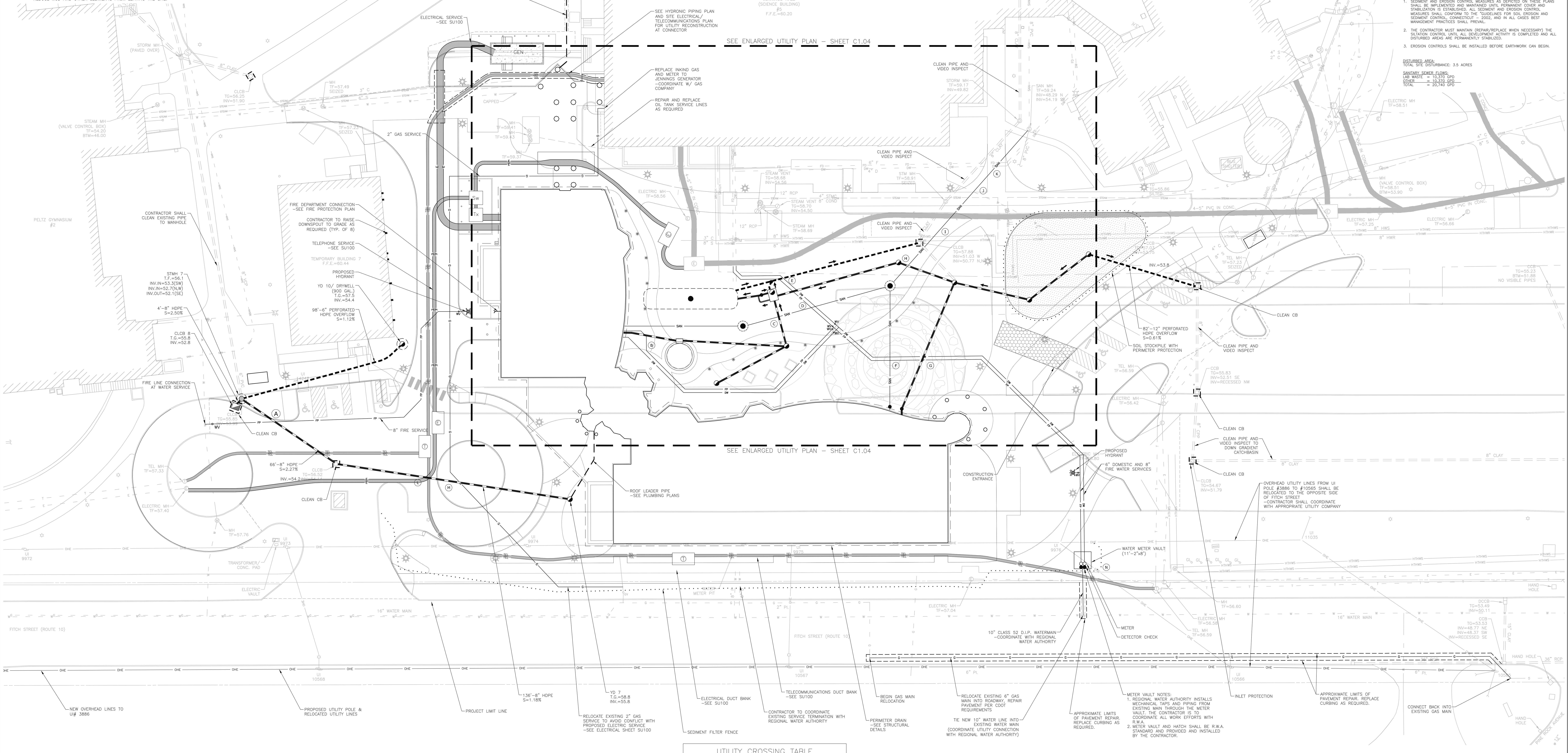
1. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "CALL BEFORE YOU DIG", 1–800–922–4455. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
2. MILONE & MACBROOM INC. ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF MAPS AND DATA WHICH HAVE BEEN SUPPLIED BY OTHERS.
3. THE EXACT LOCATION AND SIZE OF ELECTRIC, TELEPHONE, CABLE TELEVISION AND GAS ARE TO BE DETERMINED BY THE RESPECTIVE UTILITY COMPANIES.
4. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
5. ALL STORM DRAIN PIPE SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) PIPE UNLESS OTHERWISE INDICATED.
6. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATE FINISHED GRADE.
7. ALL GRAVITY SANITARY SEWER PIPE SHALL BE PVC SDR35 UNLESS OTHERWISE INDICATED.
8. ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO THE SCSU REQUIREMENTS AND TO THE APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION, FORM 816 AND ADDENDUMS
9. THE PLANS REQUIRE A CONTRACTOR'S WORKING KNOWLEDGE OF LOCAL, MUNICIPAL, WATER AUTHORITY, AND STATE CODES FOR UTILITY SYSTEMS. ANY CONFLICTS BETWEEN MATERIALS AND LOCATIONS SHOWN, AND LOCAL REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE EXECUTION OF WORK. THE ENGINEER WILL NOT BE HELD LIABLE FOR COSTS INCURRED TO IMPLEMENT OR CORRECT WORK WHICH DOES NOT CONFORM TO LOCAL CODE.
10. ALL FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS SHOULD BE STORED IN A SECONDARY CONTAINER AND REMOVED TO A LOCKED INDOOR AREA WITH AN IMPERVIOUS FLOOR DURING NON–WORK HOURS.
11. THE PROPOSED BUILDINGS ARE TO BE CONNECTED TO PUBLIC WATER AND SANITARY SEWER.
12. COMPLIANCE WITH THE PERMIT CONDITIONS IS THE RESPONSIBILITY OF BOTH THE CONTRACTOR AND THE PERMITTEE.

EROSION CONTROL NOTES

1. SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CONNECTICUT – 2002, AND IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.
2. THE CONTRACTOR MUST MAINTAIN (REPAIR/REPLACE WHEN NECESSARY) THE SILTATION CONTROL UNTIL ALL DEVELOPMENT ACTIVITY IS COMPLETED AND ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
3. EROSION CONTROLS SHALL BE INSTALLED BEFORE EARTHWORK CAN BEGIN.

DISTURBED AREA:
TOTAL SITE DISTURBANCE: 3.5 ACRES

SANITARY SEWER FLOWS:
LAB WASTE = 10,370 GPD
OTHER = 10,370 GPD
TOTAL = 20,740 GPD



LEGEND

CONSTRUCTION ENTRANCE	UNDERGROUND ELECTRICAL CONDUIT	SANITARY SEWER MANHOLE
SEDIMENT FILTER FENCE	GAS MAIN	SANITARY SEWER PIPE
INLET PROTECTION	UNDERGROUND TELECOM. CONDUIT	STORM SEWER MANHOLE
SOIL STOCK PILE	DOMESTIC WATER LATERAL	STORM SEWER PIPE
	FIRE WATER LATERAL	ROOF DRAIN
	PROPOSED HYDRANT	YARD DRAIN
	PROPOSED VALVE	FLOW DIRECTION

UTILITY CROSSING TABLE

LOCATIONS	UTILITY INVERTS	
	LOWER	UPPER
A	WATER – 51.0' (MIN.)	STORM – 53.2'
B	WATER – 52.8' (MIN.)	STORM – 54.5'
C	SANITARY – 49.8'	STORM – 53.0'
D	SANITARY – 49.5'	WATER – 53.9'
E	WATER – 50.5' (MIN.)	STORM – 52.3'
F	SANITARY – 52.0'	WATER – 54.3'±*
G	WATER – 52.1'±*	STORM – 54.3'
H	SANITARY – 48.9'	STORM – 53.1'
I	SANITARY – 48.8'	STEAM – 53.3'±*
J	SANITARY – 48.6'	STEAM – 54.2'±*
K	SANITARY – 48.4'	WATER – 54.8'±*
L	TELE – 51.6'±	STORM – 54.6'
M	TELE – 51.9'±	STORM – 54.9'
N	WATER – 50.8'	TELE – 53.0'±

* ESTIMATED INVERT

UTILITY CROSSING NOTES:
1. MAINTAIN MINIMUM 18" OF SEPARATION BETWEEN WATER/SANITARY/STORM.
2. IF WATER SEPARATION IS LESS THAN 18" PROVIDE CONCRETE ENCASEMENT.
3. MAINTAIN MINIMUM 4' COVER OVER WATER.
4. TELE/ELEC. DUCT TO BE 18" HIGH WITH 24" MINIMUM COVER, SEE SITE ELECTRICAL AND TELECOMMUNICATIONS PLAN.

SOIL EROSION AND SEDIMENT CONTROL NARRATIVE

SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS AND DESCRIBED WITHIN THE SEDIMENT AND EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CONNECTICUT – 2002, SCSU, AND IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.

1. PURPOSE AND DESCRIPTION OF PROJECT
A.) THE CONSTRUCTION OF A NEW ACADEMIC LABORATORY BUILDING
B.) DISTURBED AREA: ±3.5 AC.

2. IDENTIFICATION OF EROSION AND SEDIMENT CONTROL CONCERNS
A.) CUTS AND FILLS ASSOCIATED WITH CONSTRUCTION.
B.) PROTECTION OF EXISTING STORM DRAINAGE SYSTEM.

3. IDENTIFICATION OF OTHER POSSIBLE PERMITS
CT DEEP STORMWATER CONSTRUCTION GENERAL PERMIT#: GSN002349

0 10' 20' 40'

drawing title: SITE UTILITY AND EROSION CONTROL PLAN

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

volume: 1 of 2

REVISIONS

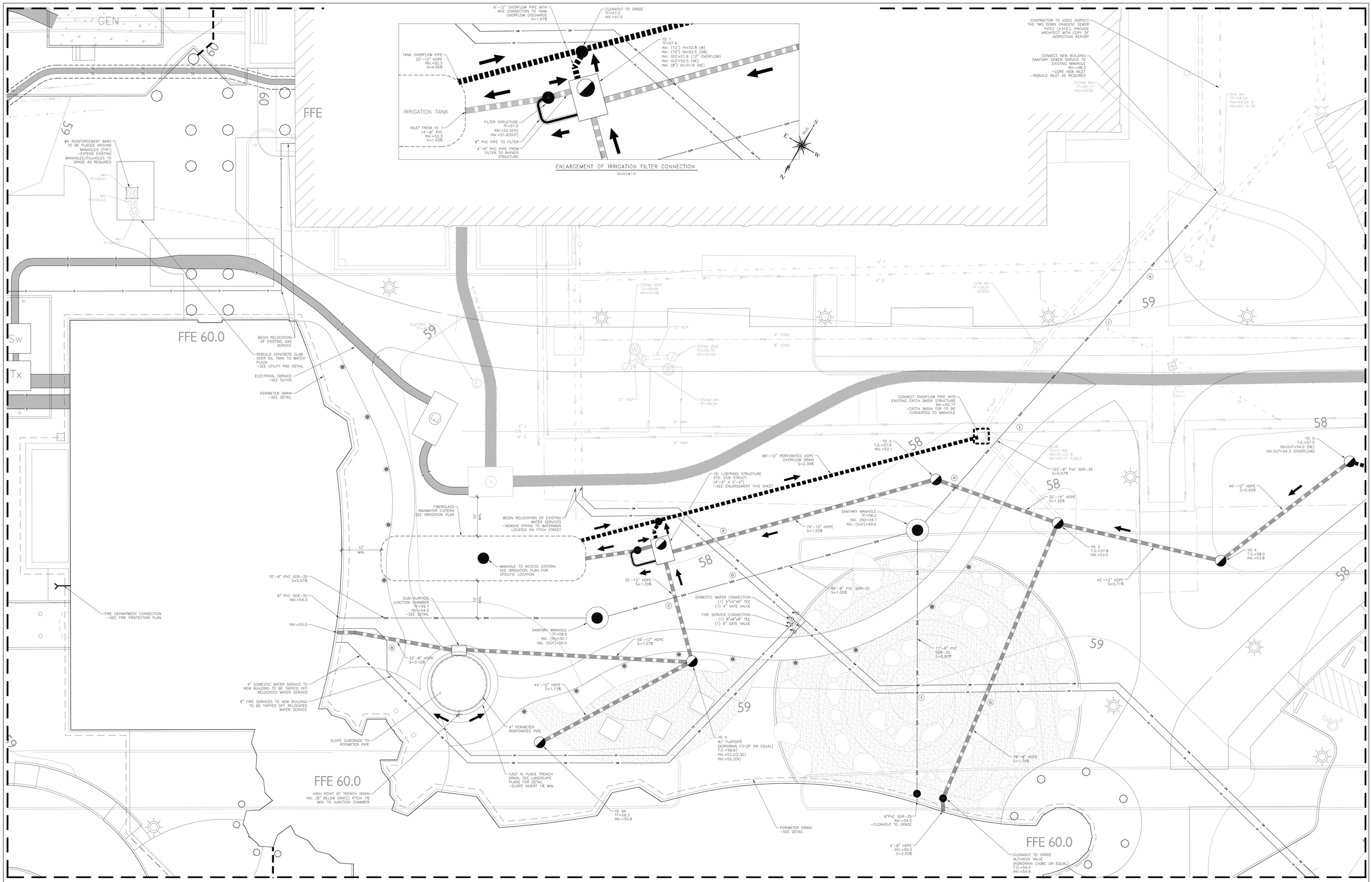
mark	date	description
	11-21-2012	Bid Documents

DRAWING PREPARED BY
MILONE & MACBROOM, Engineering, Landscape Architecture and Environmental Science
99 Realty Drive, Cheshire, Connecticut 06410, (203) 271-1773 Fax (203) 272-9733, www.miloneandmacbroom.com

date: 11-21-2012
scale: 1"=20'
drawn by: DJK/CJR
approved by: TD

project: SCSU ACADEMIC LABORATORY BUILDING

CAD no.: 1300
project no.: BI-RS-283
drawing no.: C103

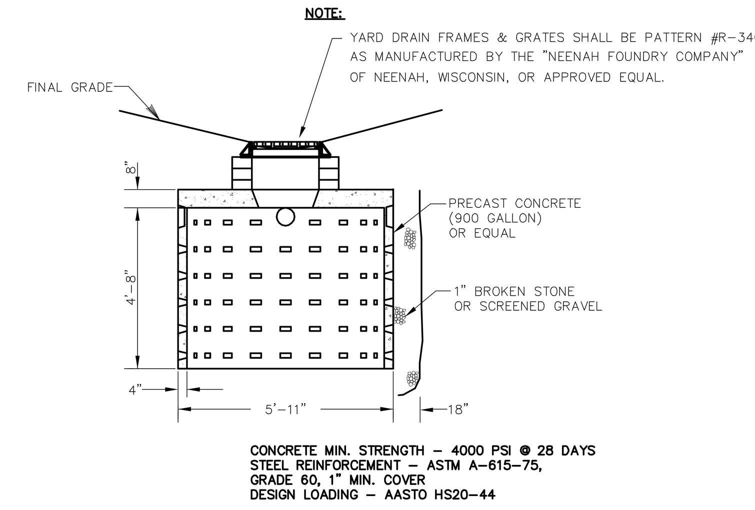


LEGEND

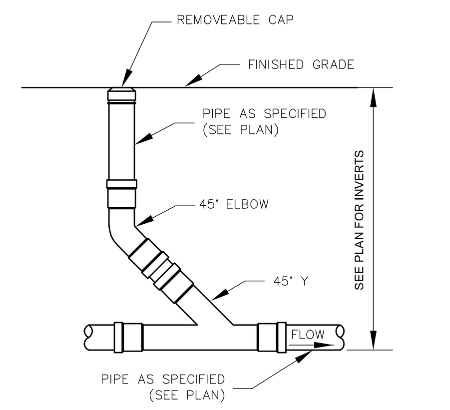
E	UNDERGROUND ELECTRICAL CONDUIT		SANITARY SEWER MANHOLE
G	GAS MAIN	SAN	SANITARY SEWER PIPE
TEL	UNDERGROUND TELECOM. CONDUIT		STORM SEWER MANHOLE
DW	DOMESTIC WATER LATERAL		STORM SEWER PIPE
FP	FIRE WATER LATERAL	RD	ROOF DRAIN
	PROPOSED HYDRANT		YARD DRAIN
WV	PROPOSED VALVE		FLOW DIRECTION

0 4' 8' 16'

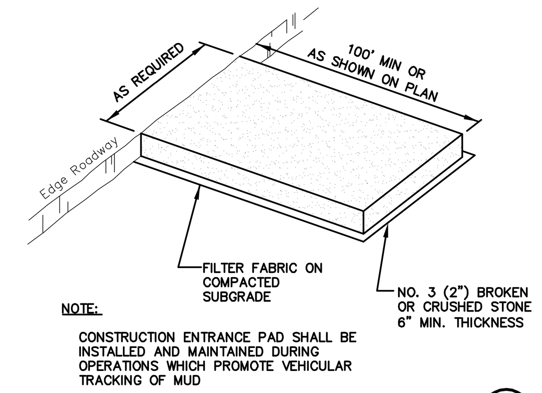
SHEET TITLE: ENLARGED SITE UTILITY PLAN	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		SHEET 1 of 2
REVISIONS: NO. / DATE / DESCRIPTION	PROJECT PREPARED BY: MILONE & MACBROOM, 99 Realty Drive, Cheshire, Connecticut 06410 (203) 271-1773 Fax (203) 272-9733 www.miloneandmacbroom.com Engineering, Landscape Architecture and Environmental Science		DATE 11-21-2012
1 / 11-21-2012 / Bid Documents			SCALE 1"=8'
	PROJECT: SCSU ACADEMIC LABORATORY BUILDING		DRAWN BY DJK/CJR
			REVIEWED BY TD
	CAD FILE: 1300	PROJECT NO: BI-RS-283	DRAWING NO. C104



YARD DRAIN DRYWELL
N.T.S.



CLEANOUT–TO–GRADE DETAIL
NTS



CONSTRUCTION ENTRANCE PAD (CE)
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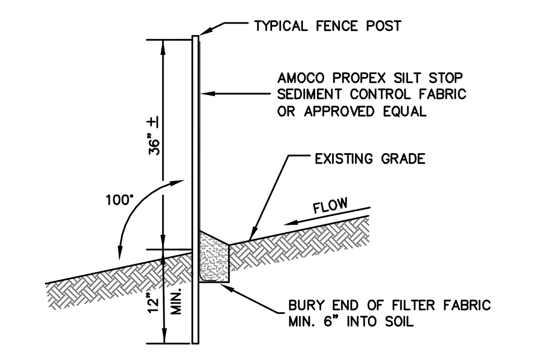
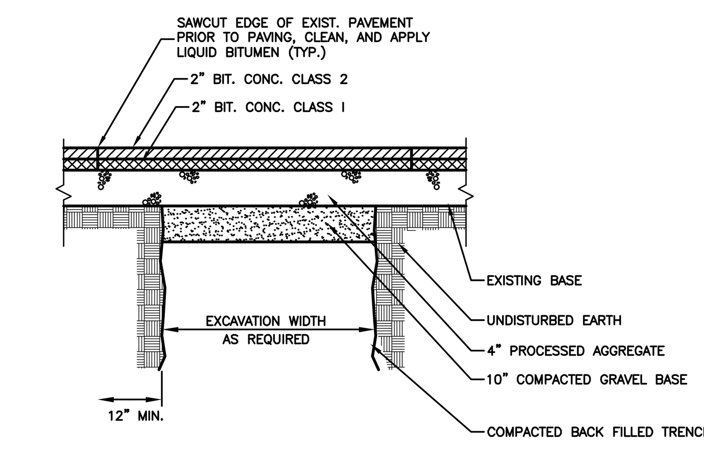


SEDIMENT FILTER FENCE (GSF)
N.T.S.



PERMANENT PAVEMENT REPAIR FOR TRENCH
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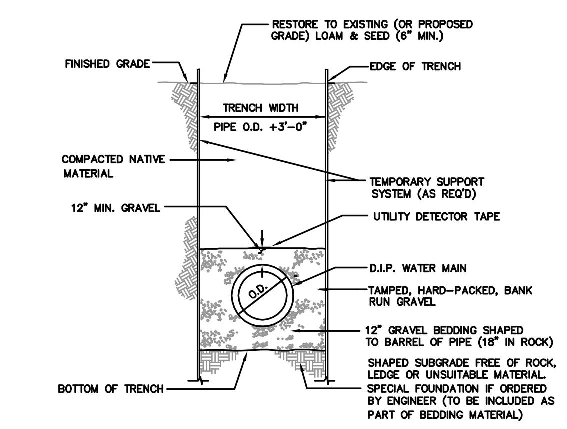

WATER MAIN TRENCH DETAIL
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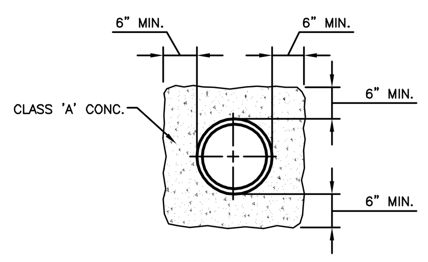

CONCRETE ENCASEMENT
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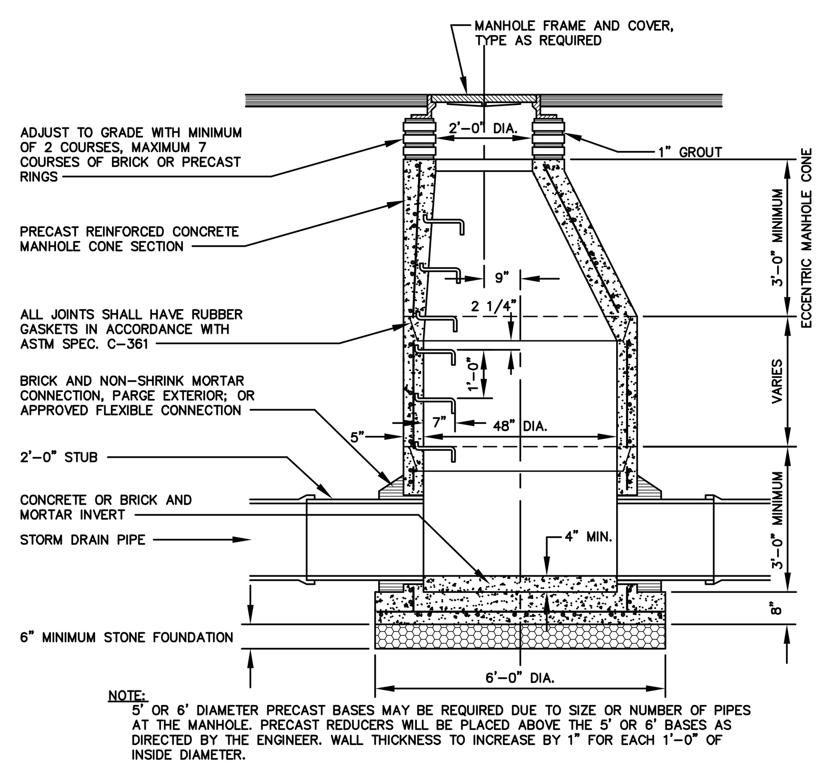
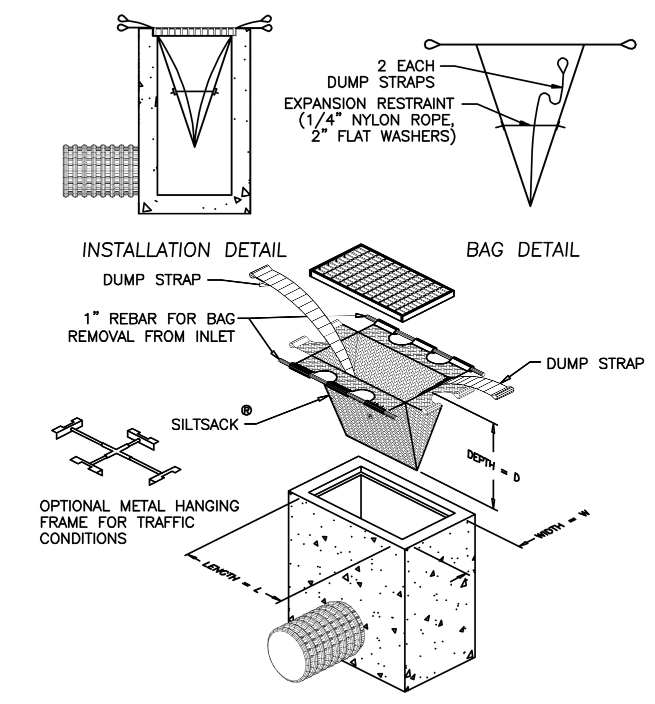
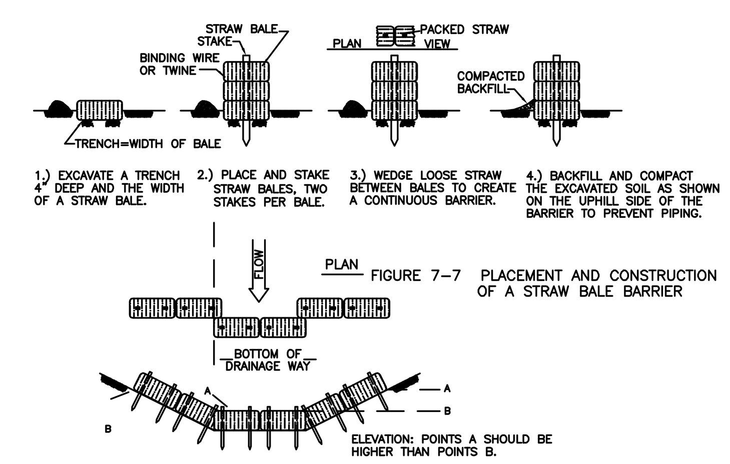


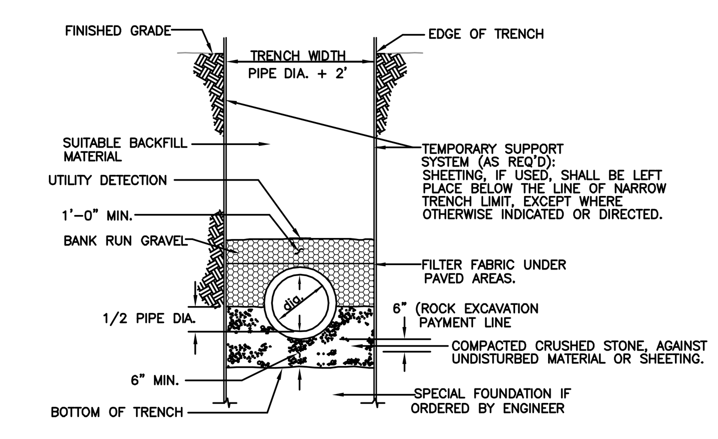
PRECAST CONCRETE STORM DRAINAGE MANHOLE
N.T.S.



INLET SEDIMENTATION CONTROL DEVICE FOR CATCH BASIN (IP)
N.T.S.



PLACEMENT & CONSTRUCTION OF A STRAW BALE BARRIER (HB)
N.T.S.



SANITARY SEWER TRENCH
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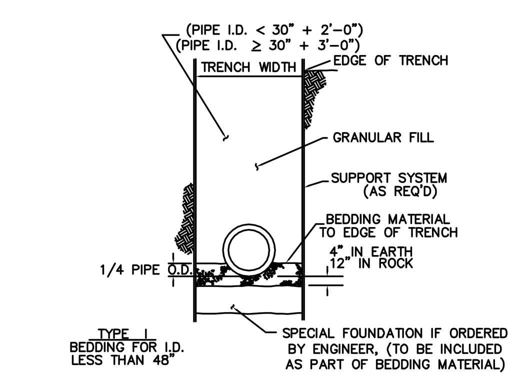
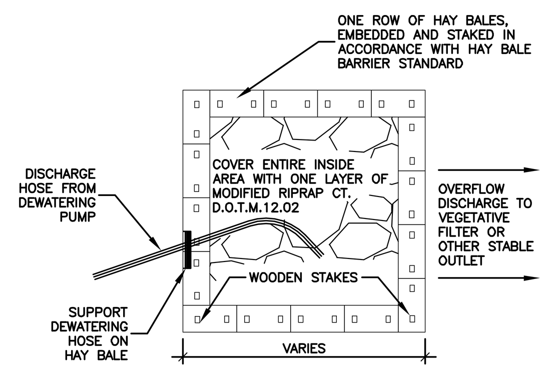
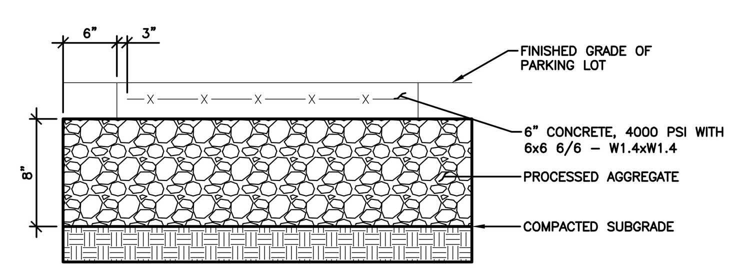


TYPICAL TRENCH SECTION STORM DRAINS AND CULVERTS
N.T.S.



DEWATERING BASIN TYPE I PUMPING
N.T.S.



CONCRETE UTILITY PAD
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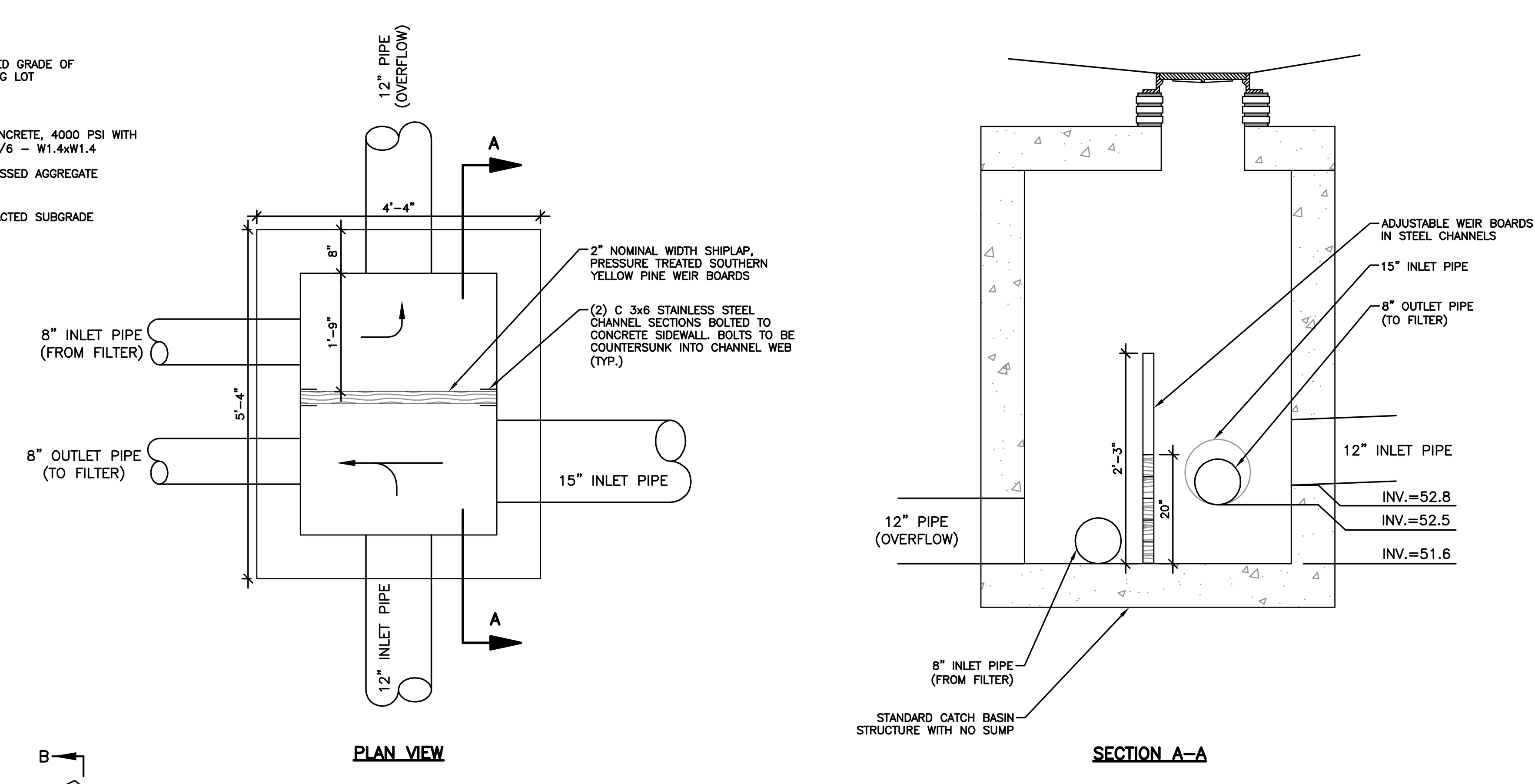

BYPASS STRUCTURE
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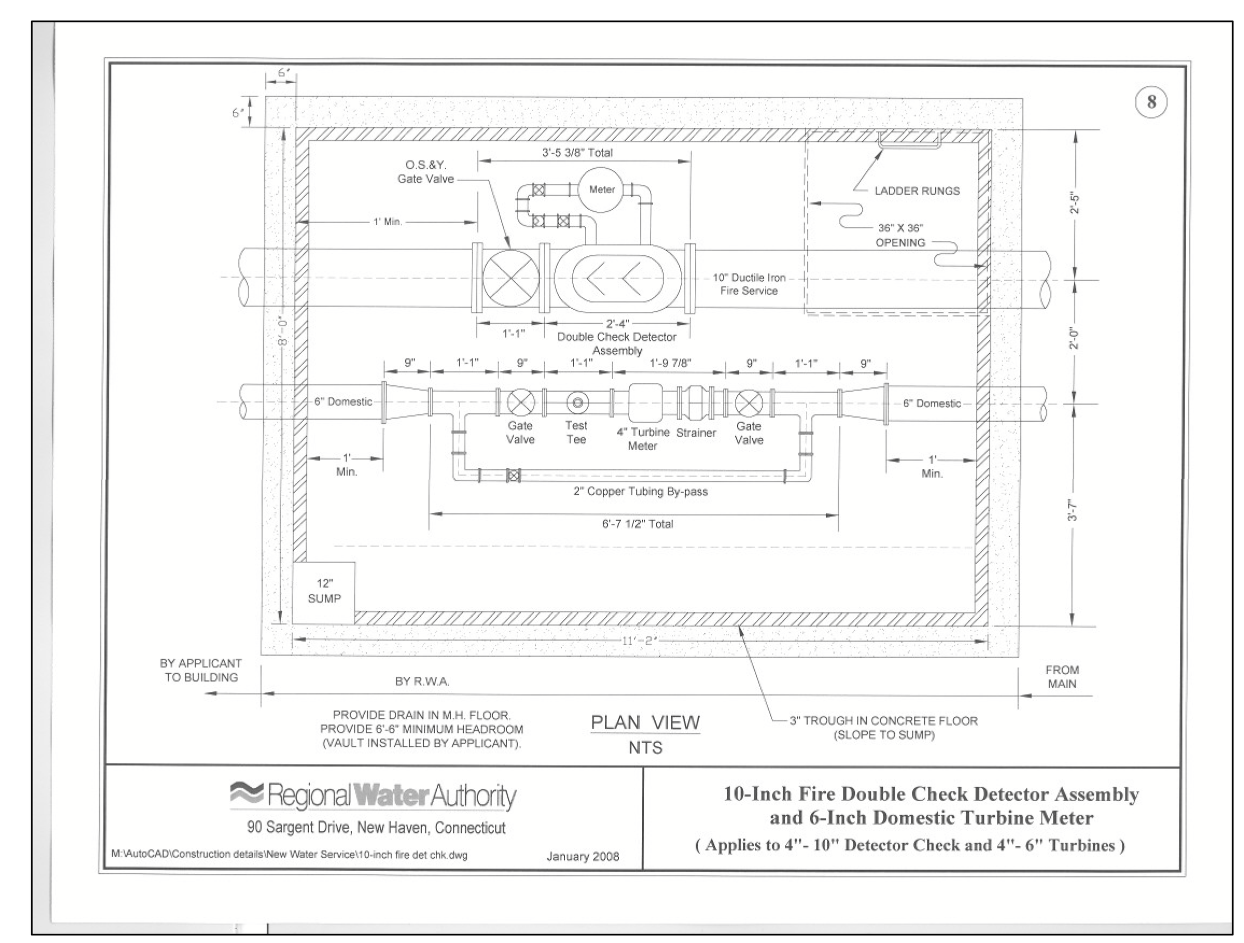
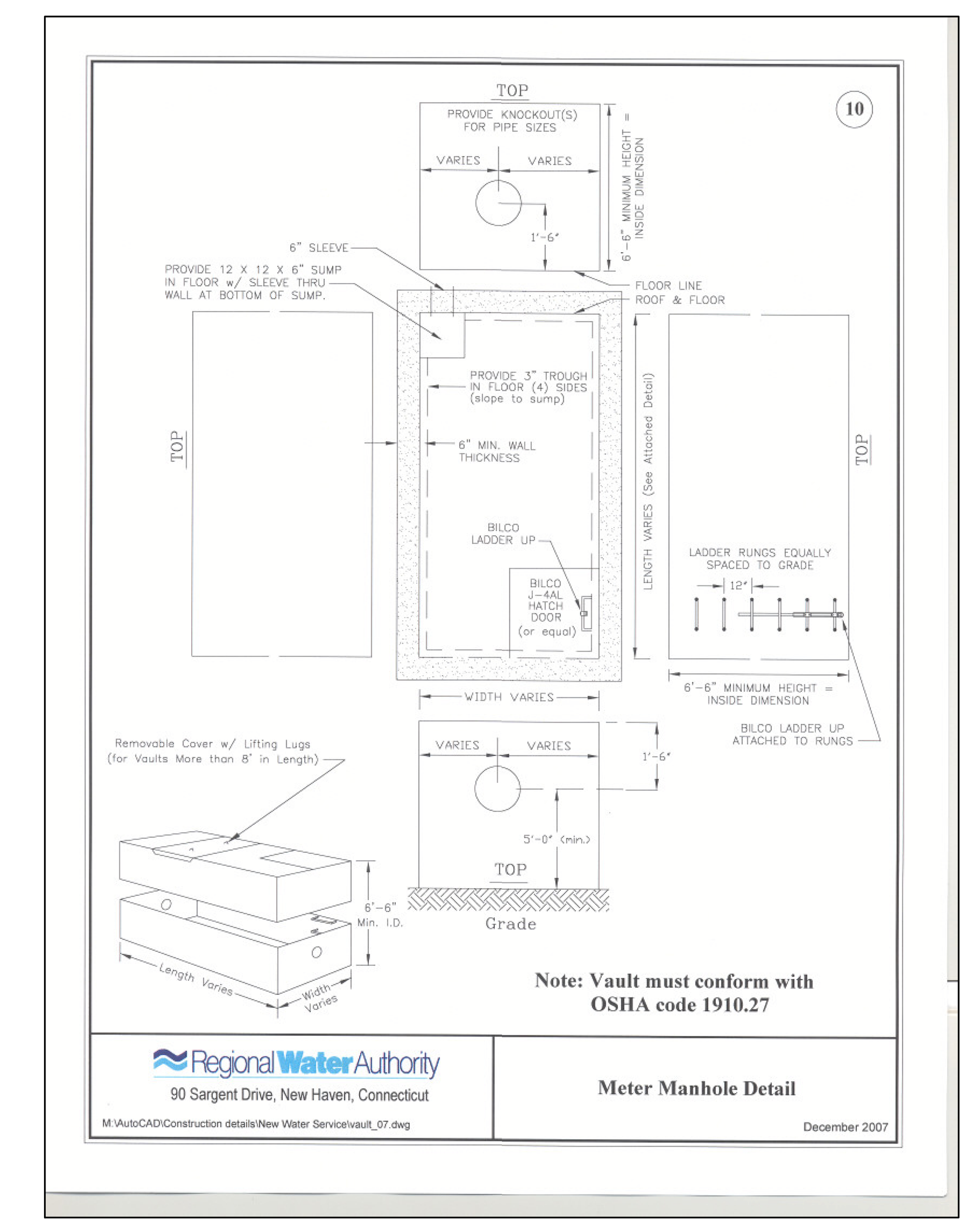
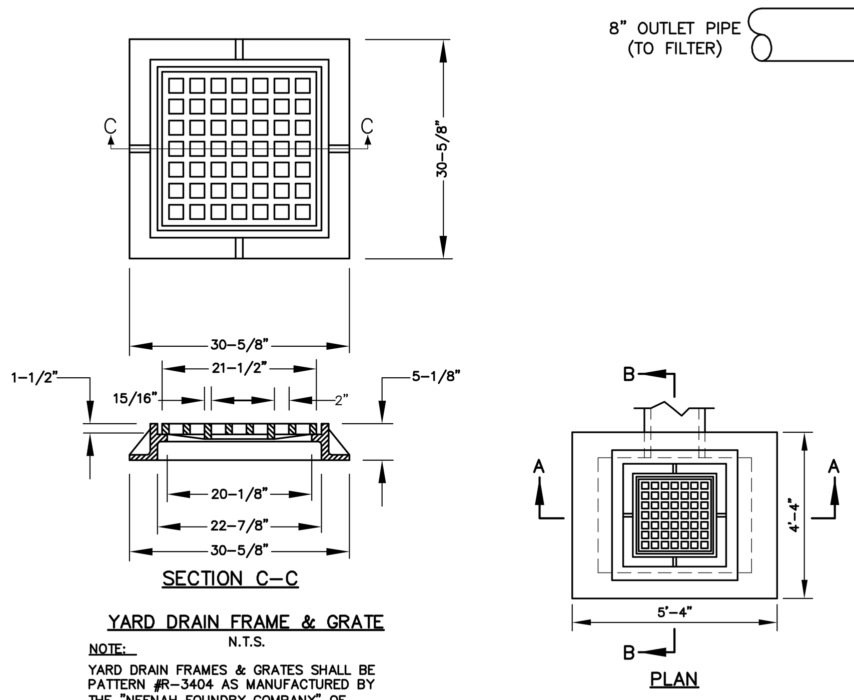
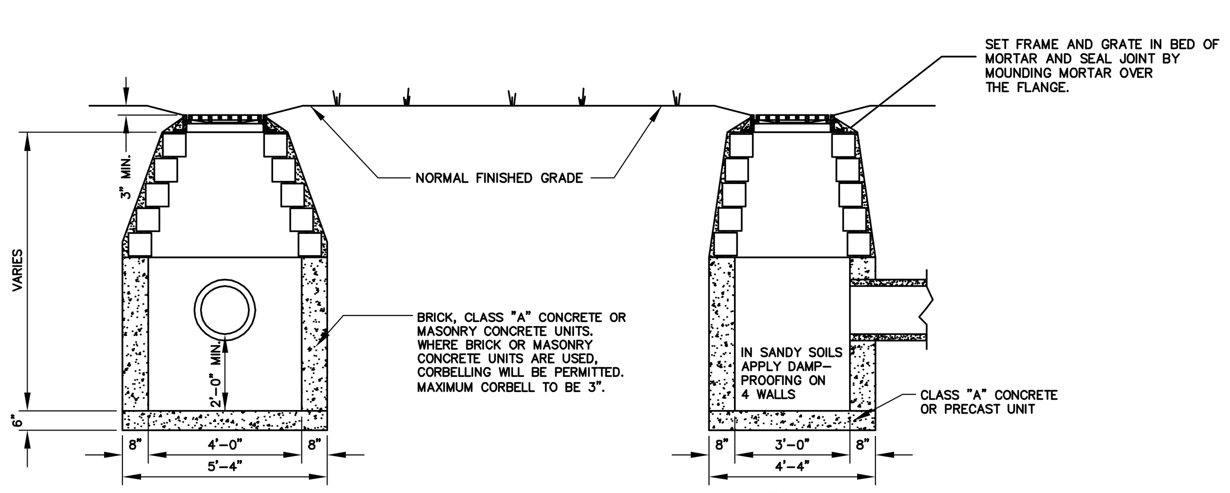






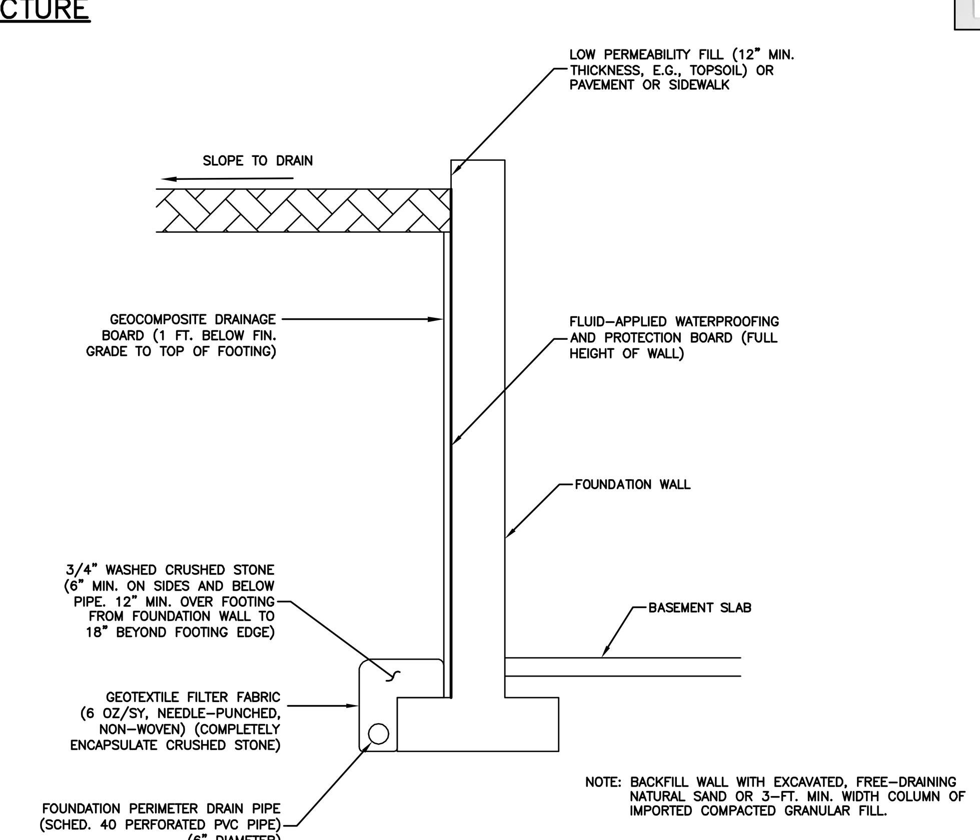
YARD DRAIN FRAME & GRATE
N.T.S.

NOTE:
YARD DRAIN FRAMES & GRATES SHALL BE PATTERN #R-3404 AS MANUFACTURED BY THE "NEENAH FOUNDRY COMPANY" OF NEENAH, WISCONSIN, OR APPROVED EQUAL.

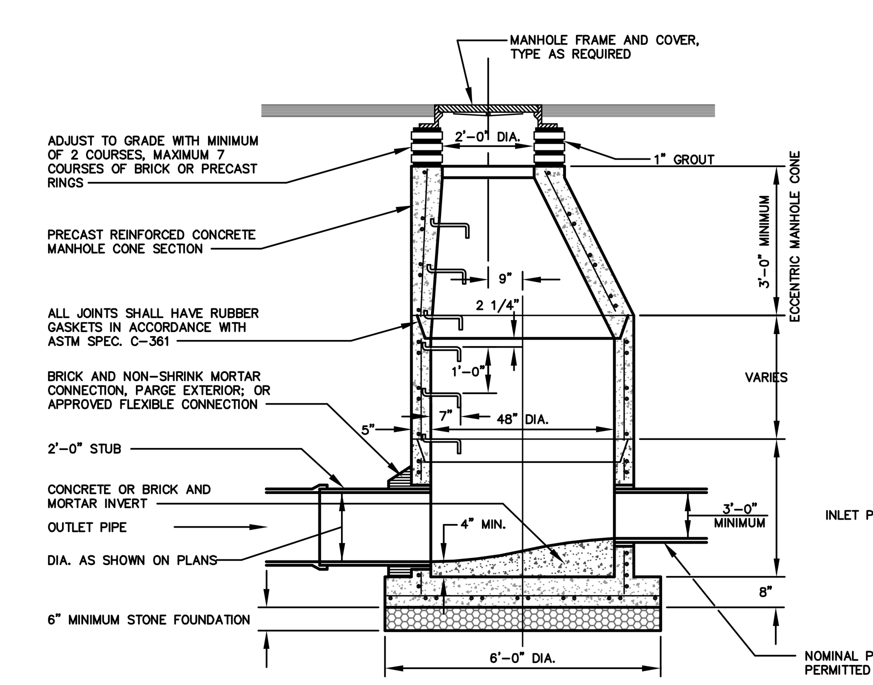


YARD DRAIN
N.T.S.

NOTES:
1. WHERE PRECAST CONCRETE UNIT IS USED FOR SUMP, THE TOP OF THE UNIT SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE PIPE OUTLETTING FROM THE CATCH BASIN.



PERIMETER DRAIN DETAIL
N.T.S.



PRECAST CONCRETE SANITARY MANHOLE
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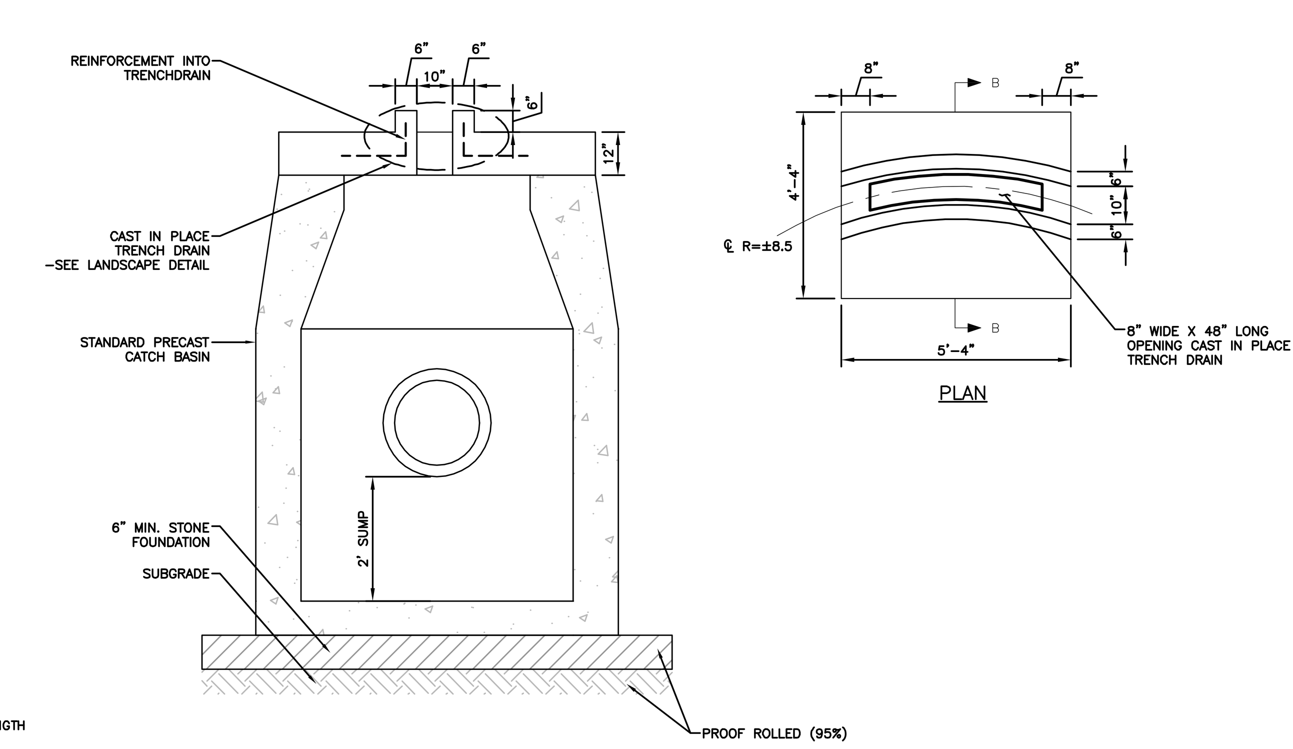

TRENCH DRAIN GRATE
N.T.S.

drawing title: SITE UTILITY DETAILS		STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES	volume: 1 of 2
REVISIONS		DRAWING PREPARED BY: MILONE & MACBROOM® Engineering, Landscape Architecture and Environmental Science, 99 Realty Drive, Cheshire, Connecticut 06410, (203) 271-1773 Fax (203) 272-9733, www.miloneandmacbroom.com	date: 11-21-2012
mark / date	description		scale: AS NOTED
11-21-2012	Bid Documents	project: SCSU ACADEMIC LABORATORY BUILDING	drawn by: DJK
			approved by: TD
		CAD no.: 1300 / project no.: BI-RS-283	drawing no.: C105

HALEY & ALDRICH — TEST BORING REPORT — Boring No. B1 (Sheet 1 of 3)

Project: Proposed Laboratory and Classroom Building, SCSU; New Haven, Connecticut
Client: Centerbrook Architects and Planners
Contractor: General Borings, Inc.

File No. 36451-000 · Sheet No. 1 of 3 · Start June 9, 2010 · Finish June 9, 2010 · Driller J. Kasson · H&A Rep. G. Jacobsen · Elevation 56.5 · Datum NAVD 88 · Location See Plan

	Casing	Sampler	Barrel
Type	HSA	S	-
Inside Diameter (in.)	3 1/4	1 3/8	-
Hammer Weight (lb)	-	140	-
Hammer Fall (in.)	-	30	-

Drilling Equipment and Procedures: Rig Make & Model: Mobile Drill B53 · Bit Type: None · Drill Mud: None · Casing: - · Hoist/Hammer: Winch / Safety Hammer · PID Make & Model: None

Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	Visual-Manual Identification and Description	% Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines	Dilatancy	Toughness	Plasticity	Strength
			56.1 / 0.4		-ASPHALT-										
			55.5 / 1.0	SM	Dark brown silty SAND -FILL-										
26 28 27 24	S1 12	1.0 3.0		SP	Very dense brown medium to fine SAND, no odor, dry	-	-	-	30	70	-	-	-	-	-
18 20 19 24	S2 8	3.0 5.0		SW	Dense brown coarse to fine SAND, trace gravel, no odor, dry	-	5	15	40	40	-	-	-	-	-
10 13 13 13	S3 14	5.0 7.0		SW	Medium dense brown medium to fine SAND, trace gravel, no odor, dry	-	5	5	40	50	-	-	-	-	-
7 8 11 18	S4 12	10.0 12.0		SW	Medium dense brown coarse to fine SAND, no odor, dry	-	5	15	40	40	-	-	-	-	-
5 4 5 10	S5 18	15.0 17.0		SP	Loose brown fine SAND, no odor, dry	-	-	-	10	90	-	-	-	-	-
					-GLACIOFLUVIAL DEPOSITS-										

Date	Time	Elapsed Time (hr.)	Depth to Bottom of Casing	Depth to Bottom of Hole	Water
6/9/10	-	-	-	-	30.0 ±

Sample ID: O - Open End Rod; T - Thin Wall Tube; U - Undisturbed Sample; S - Split Spoon Sample
Well Diagram: Riser Pipe, Screen, Filter Sand, Cuttings, Grout, Concrete, Bentonite Seal
Summary: Overburden (ft) 50.2 · Rock Cored (ft) - · Samples 12S · Boring No. B1
Field Tests: Dilatancy R - Rapid S - Slow N - None · Toughness L - Low M - Medium H - High · Plasticity N - Nonplastic L - Low M - Medium H - High · Dry Strength N - None L - Low M - Medium H - High V - Very High
*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.
Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT — Boring No. B1 (File No. 36451-000, Sheet No. 2 of 3)

Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	Description	% Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines	Dilatancy	Toughness	Plasticity	Strength
7 9 11 11	S6 6	20.0 22.0		SM	Medium dense brown fine SAND, little silt, no odor, dry	-	-	-	-	85	15	-	-	-	-
10 10 12 10	S7 24	25.0 27.0		SP-SM	Similar to S6	-	-	-	-	90	10	-	-	-	-
5 7 8 9	S8 18	30.0 32.0		SM	Similar to S7, except wet	-	-	-	-	85	15	-	-	-	-
6 6 9 12	S9 22	35.0 37.0		SP	Medium dense brown fine SAND, trace gravel, no odor, wet	-	-	10	-	85	5	-	-	-	-
7 8 11 12	S10 18	40.0 42.0		SM	Medium dense brown fine SAND, little silt, no odor, wet	-	-	-	-	85	15	-	-	-	-
			11.5 / 45.0		-GLACIOFLUVIAL DEPOSITS-										
18 22 29 41	S11 24	45.0 47.0		SM	Very dense brown silty medium to fine SAND, little gravel, bonded in-situ, no odor, wet	5	15	10	20	25	25	-	-	-	-
			9.5 / 47.0		-GLACIAL TILL- Note: Auger advancement became hard and steady below 47.0 ft										

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc. — Boring No. B1

TEST BORING REPORT — Boring No. B1 (File No. 36451-000, Sheet No. 3 of 3)

Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	Description	% Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines	Dilatancy	Toughness	Plasticity	Strength
50/2"	S12 2	50.0 50.2	6.3 / 50.2		Very dense red-brown silty fine SAND, with larger chips, no odor, moist -DECOMPOSED BEDROCK- Bottom of exploration at 50.2 ft	-	20	-	-	60	20	-	-	-	-

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc. — Boring No. B1

TEST BORING REPORT — Boring No. B2 (Sheet 1 of 3)

Project: Proposed Laboratory and Classroom Building, SCSU; New Haven, Connecticut · Client: Centerbrook Architects and Planners · Contractor: General Borings, Inc.
File No. 36451-000 · Sheet No. 1 of 3 · Start June 8, 2010 · Finish June 9, 2010 · Driller E. Del Priore/J. Kasson · H&A Rep. G. Jacobsen · Elevation 56.5 · Datum NAVD 88 · Location See Plan
Casing: HSA, 3 1/4, -, - · Sampler: S, 1 3/8, 140, 30 · Barrel: - · Rig Make & Model: Mobile Drill B53 · Bit Type: None · Drill Mud: None · Casing: - · Hoist/Hammer: Winch / Safety Hammer · PID Make & Model: None

Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	Description	% Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines	Dilatancy	Toughness	Plasticity	Strength
			56.1 / 0.4		-ASPHALT-										
8 10 10 12	S1 20	0.5 2.5		SP-SM	Medium dense brown medium to fine SAND, little silt, no odor, dry -FILL-	-	-	-	40	50	10	-	-	-	-
			55.0 / 1.5	SP	Medium dense brown medium to fine SAND, no odor, dry	-	-	-	40	45	5	-	-	-	-
11 11 12 14	S2 14	2.5 4.5		SP	Similar to S1 (below 1.5 ft)	-	-	-	40	45	5	-	-	-	-
6 7 11 12	S3 16	5.0 7.0		SW	Medium dense brown coarse to fine SAND, no odor, dry	-	-	20	35	45	-	-	-	-	-
5 7 10 10	S4 20	10.0 12.0		SP	Medium dense brown medium to fine SAND, no odor, dry	-	-	-	20	80	-	-	-	-	-
11 12 13 15	S5 18	15.0 17.0		SW	Medium dense brown coarse to fine SAND, no odor, dry	-	-	10	40	50	-	-	-	-	-
					-GLACIOFLUVIAL DEPOSITS-										

Date	Time	Elapsed Time (hr.)	Depth to Bottom of Casing	Depth to Bottom of Hole	Water
6/8/10	-	-	30.0	32.0	30.0 ±

Summary: Overburden (ft) 50.9 · Rock Cored (ft) - · Samples 12S · Boring No. B2

TEST BORING REPORT — Boring No. B2 (File No. 36451-000, Sheet No. 2 of 3)

Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	Description	% Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines	Dilatancy	Toughness	Plasticity	Strength
7 9 8 9	S6 22	20.0 22.0		SM	Medium dense brown silty fine SAND, no odor, dry	-	-	-	-	80	20	-	-	-	-
9 9 11 9	S7 24	25.0 27.0		SM	Similar to S6	-	-	-	-	80	20	-	-	-	-
5 7 7 9	S8 21	30.0 32.0		SM	Similar to S7, except wet	-	-	-	-	80	20	-	-	-	-
5 6 8 10	S9 21	35.0 37.0		SM	Similar to S8	-	-	-	-	80	20	-	-	-	-
3 4 5 9	S10 24	40.0 42.0		SM	Loose brown silty fine SAND, no odor, wet; gravel in spoon tip	-	-	-	-	70	30	-	-	-	-
			14.5 / 42.0		-GLACIOFLUVIAL DEPOSITS-										
8 11 13 21	S11 20	45.0 47.0		SM	Medium dense brown silty medium to fine SAND, little gravel, no odor, wet	-	10	5	25	30	30	-	-	-	-
			8.5 / 48.0		-GLACIAL TILL- Note: Auger advancement became hard and smooth										

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc. — Boring No. B2

TEST BORING REPORT — Boring No. B2 (File No. 36451-000, Sheet No. 3 of 3)

Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	Description
37 100/5"	S12 10	50.0 50.9	5.6 / 50.9		Hard mottled red-brown and light gray fine sandy SILT, no odor, moist -DECOMPOSED BEDROCK- Bottom of exploration at 50.9 ft

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc. — Boring No. B2

TEST BORING REPORT — Boring No. B3 (Sheet 1 of 3)

Project: Proposed Laboratory and Classroom Building, SCSU; New Haven, Connecticut · Client: Centerbrook Architects and Planners · Contractor: General Borings, Inc.
File No. 36451-000 · Sheet No. 1 of 3 · Start June 5, 2010 · Finish June 7, 2010 · Driller T. McGovern · H&A Rep. G. Jacobsen · Elevation 57.2 (est.) · Datum NAVD 88 · Location See Plan
Casing: HSA/HW, 4, 300, 24 · Sampler: S, 1 3/8, 140, 30 · Barrel: - · Rig Make & Model: Mobile Drill B53 · Bit Type: None · Drill Mud: Bentonite · Casing: Driven · Hoist/Hammer: Winch / Safety Hammer · PID Make & Model: None

Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	Description	% Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines	Dilatancy	Toughness	Plasticity	Strength
			56.7 / 0.5		-ASPHALT-										
12 17 18 20	S1 18	0.5 2.5	56.2 / 1.0	SM	Medium dense gray silty medium fine SAND, no odor, dry -FILL-	-	-	5	5	50	40	-	-	-	-
				SW	Dense red-brown coarse to fine SAND, little gravel, no odor, dry	-	20	10	30	35	5	-	-	-	-
17 14 18 20	S2 18	2.5 4.5		SW	Similar to S1 (below 1.0 ft), except with layer of medium to fine SAND, little silt	-	20	10	30	35	5	-	-	-	-
9 10 10 9	S3 16	5.0 7.0		SW	Medium dense brown medium to fine SAND, trace gravel, no odor, dry. Note: Advanced auger to 10.0 ft, then drove casing, washed out with water, then mud	-	10	5	40	40	5	-	-	-	-
5 8 10 15	S4 12	10.0 12.0		SW	Medium dense brown medium to fine SAND, no odor, wet (drill water). Note: Drill action indicated gravelly layers from approximately 12.0 to 13.0 ft	-	-	10	40	45	5	-	-	-	-
21 33 55 38	S5 1	15.0 17.0			Coarse gravel fragment (pushing cobble/gravel). Note: Advanced roller bit through numerous gravel/cobbles to approximately 20.0 ft	100	-	-	-	-	-	-	-	-	-
6 5 8 11	S6 12	20.0 22.0	37.2 / 20.0	SW	Medium dense brown medium to fine SAND, no odor, wet -GLACIOFLUVIAL DEPOSITS-	-	-	5	40	50	5	-	-	-	-

Date	Time	Elapsed Time (hr.)	Depth to Bottom of Casing	Depth to Bottom of Hole	Water
6/7/10	-	-	-	-	30.0 ±

Summary: Overburden (ft) 65.3 · Rock Cored (ft) - · Samples 15S · Boring No. B3

TEST BORING REPORT — Boring No. B3 (File No. 36451-000, Sheet No. 2 of 3)

Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	Description	% Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines	Dilatancy	Toughness	Plasticity	Strength
12 12 14 15	S7 12	25.0 27.0		SP	Medium dense brown fine SAND, no odor, moist	-	-	-	20	75	5	-	-	-	-
9 10 11 11	S8 20	30.0 32.0		SP	Medium dense brown fine SAND, no odor, wet	-	-	-	10	85	5	-	-	-	-
5 6 7 7	S9 20	35.0 37.0		SP	Medium dense brown fine SAND, no odor, wet	-	-	-	-	95	5	-	-	-	-
6 7 10 11	S10 12	40.0 42.0		SP	Similar to S9	-	-	-	-	95	5	-	-	-	-
10 9 11 14	S11 20	45.0 47.0		SM/ ML	Medium dense brown fine SAND, little silt grading to SILT, little fine sand, with several layers slightly plastic	-	-	-	-	90 / 20	10 / 80	-	-	-	-
			8.2 / 49.0		-GLACIOFLUVIAL DEPOSITS- Note: Roller bit through several hard cobbles/boulders from approximately 49.0 to 50.0 ft										
10 15 14 21	S12 18	50.0 52.0		SM	Medium dense brown silty coarse to fine SAND, little gravel and cobbles, bonded in-situ no odor, wet -GLACIAL TILL-	5	15	10	20	20	30	-	-	-	-

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc. — Boring No. B3

TEST BORING REPORT — Boring No. B3 (File No. 36451-000, Sheet No. 3 of 3)

Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	Description	% Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines	Dilatancy	Toughness	Plasticity	Strength
25 15 23 26	S13 8	55.0 57.0		SW	Dense brown gravelly coarse to fine SAND, little silt. Note: Roller bit through hard gravel/cobbles from approximately 55.0 to 59.0 ft -GLACIAL TILL-	10	20	10	20	20	20	-	-	-	-
			-1.8 / 59.0		Note: Began using drill mud below 57.0 ft										
100/2"	S14 2	60.0 60.2		SM	Very dense red-brown silty medium to fine SAND, no odor, wet (appears decomposed)	-	-	-	20	40	40	-	-	-	-
100/4"	S15 4	65.0 65.3	-8.1 / 65.3	SM	Similar to S14, except with remnant bedrock structure and mottled red-brown and light gray -DECOMPOSED BEDROCK- Bottom of exploration at 65.3 ft	-	-	-	20	40	40	-	-	-	-

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc. — Boring No. B3

TEST BORING REPORT — Boring No. B4 (Sheet 1 of 3)

Project: Proposed Laboratory and Classroom Building, SCSU; New Haven, Connecticut · Client: Centerbrook Architects and Planners · Contractor: General Borings, Inc.
File No. 36451-000 · Sheet No. 1 of 3 · Start June 8, 2010 · Finish June 8, 2010 · Driller T. McGovern · H&A Rep. G. Jacobsen · Elevation 57.6 (est.) · Datum NAVD 88 · Location See Plan
Casing: HSA, 3 1/4, -, - · Sampler: S, 1 3/8, 140, 30 · Barrel: - · Rig Make & Model: Mobile Drill B53 · Bit Type: None · Drill Mud: None · Casing: - · Hoist/Hammer: Winch / Safety Hammer · PID Make & Model: None

Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	Description	% Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines	Dilatancy	Toughness	Plasticity	Strength
7 11 11 14	S1 12	0.0 2.0		SM	Medium dense brown silty fine SAND, no odor, dry -FILL-	-	-	-	-	70	30	-	-	-	-
11 11 11 14	S2 18	2.0 4.0	55.6 / 2.0	SP	Medium dense brown medium to fine SAND, no odor, dry	-	-	5	40	55	-	-	-	-	-
14 14 14 14	S3 18	5.0 7.0		SW	Medium dense brown coarse to fine SAND, no odor, dry	-	-	20	40	40	-	-	-	-	-
5 8 10 10	S4 18	10.0 12.0		SW	Medium dense brown coarse to fine SAND, no odor, dry	-	-	10	40	50	-	-	-	-	-
			44.1 / 13.5		Note: Auger advanced through gravel/cobbles										
16 28 26 26	S5 18	15.0 17.0		SW	Very dense brown coarse to fine SAND, no odor, dry	-	-	20	40	40	-	-	-	-	-
					-GLACIOFLUVIAL DEPOSITS-										

Date	Time	Elapsed Time (hr.)	Depth to Bottom of Casing	Depth to Bottom of Hole	Water
6/8/10	-	-	-	-	30.0 ±

Summary: Overburden (ft) 52.0 · Rock Cored (ft) - · Samples 12S · Boring No. B4

TEST BORING REPORT — Boring No. B4 (File No. 36451-000, Sheet No. 2 of 3)

Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	Description	% Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines	Dilatancy	Toughness	Plasticity	Strength
5 8 11 12	S6 18	20.0 22.0		SP	Medium dense brown medium to fine SAND, no odor, dry	-	-	-	40	60	-	-	-	-	-
5 6 7 7	S7 18	25.0 27.0		SP	Medium dense brown fine SAND, no odor, dry	-	-	-	5	90	5	-	-	-	-
5 7 8 8	S8 10	30.0 32.0		SP	Medium dense brown fine SAND, trace silt, no odor, wet	-	-	-	-	90	10	-	-	-	-
3 5 12 10	S9 18	35.0 37.0		SM	Medium dense brown silty fine SAND, no odor, wet	-	-	-	-	70	30	-	-	-	-
2 3 5 8	S10 18	40.0 42.0		SM	Similar to S9, except loose	-	-	-	-	70	30	-	-	-	-
10 10 28 27	S11 20	45.0 47.0		SP	Medium dense brown fine SAND, little silt, no odor, wet -GLACIOFLUVIAL DEPOSITS-	-	-	-	-	90	10	-	-	-	-
			11.6 / 46.0	SM	Very dense brown silty fine SAND, little gravel, no odor, wet -GLACIAL TILL-	-	15	5	20	30	30	-	-	-	-

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc. — Boring No. B4

TEST BORING REPORT — Boring No. B4 (File No. 36451-000, Sheet No. 3 of 3)

Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	Description	% Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines	Dilatancy	Toughness	Plasticity	Strength
22 34 36 36	S12 16	50.0 52.0	5.6 / 52.0	SM	Similar to S11 -GLACIAL TILL- Bottom of exploration at 52.0 ft	-	10	5	20	35	30	-	-	-	-

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc. — Boring No. B4

TEST BORING REPORT — Boring No. B5 (Sheet 1 of 3)

Project: Proposed Laboratory and Classroom Building, SCSU; New Haven, Connecticut · Client: Centerbrook Architects and Planners · Contractor: General Borings, Inc.
File No. 36451-000 · Sheet No. 1 of 3 · Start June 9, 2010 · Finish June 9, 2010 · Driller T. McGovern · H&A Rep. G. Jacobsen · Elevation 57.4 · Datum NAVD 88 · Location See Plan
Casing: HSA, 3 1/4, -, - · Sampler: S, 1 3/8, 140, 30 · Barrel: - · Rig Make & Model: Mobile Drill B53 · Bit Type: None · Drill Mud: None · Casing: - · Hoist/Hammer: Winch / Safety Hammer · PID Make & Model: None

Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	Description	% Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines	Dilatancy	Toughness	Plasticity	Strength
			57.0 / 0.4		-ASPHALT-										
6 11 13 13	S1 18	0.5 2.5		SM	Medium dense dark brown silty fine SAND, no odor, dry -FILL-	-	-	10	10	40	40	-	-	-	-
			55.4 / 2.0	SW	Medium dense brown medium to fine SAND, no odor, dry	-	-	10	40	50	-	-	-	-	-
12 14 11 11	S2 16	2.5 4.5		SW	Similar to S1 (below 2.0 ft)	-	-	10	40	50	-	-	-	-	-
8 8 8 9	S3 16	5.0 7.0		SW/ SP	Medium dense brown interbedded medium to fine SAND and fine SAND, no odor, dry	-	-	10 / -	40 / 5	50 / 90	- / 5	-	-	-	-
2 5 8 9	S4 12	10.0 12.0		SW	Medium dense brown medium to fine SAND, no odor, dry	-	-	5	40	55	-	-	-	-	-
8 9 9 9	S5 10	15.0 17.0		SW	Medium dense brown coarse to fine SAND, little gravel, no odor, dry. Note: Augered through gravel/cobble from approximately 18.0 to 20.0 ft	5	15	10	30	40	-	-	-	-	-
					-GLACIOFLUVIAL DEPOSITS-										

Date	Time	Elapsed Time (hr.)	Depth to Bottom of Casing	Depth to Bottom of Hole	Water
6/9/10	-	-	30.0	32.0	30.0 ±

Summary: Overburden (ft) 52.0 · Rock Cored (ft) - · Samples 12S · Boring No. B5

TEST BORING REPORT — Boring No. B5 (File No. 36451-000, Sheet No. 2 of 3)

Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	Description	% Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines	Dilatancy	Toughness	Plasticity	Strength
5 5 8 10	S6 12	20.0 22.0		SW	Medium dense brown medium to fine SAND, little gravel, no odor, dry	-	10	10	40	40	-	-	-	-	-
9 15 13 13	S7 16	25.0 27.0		SW	Medium dense brown medium to fine SAND, no odor, moist	-	-	5	40	55	-	-	-	-	-
7 8 10 9	S8 16	30.0 32.0		SP	Medium dense brown fine SAND, no odor, wet	-	-	-	5	90	5	-	-	-	-
8 10 13 13	S9 24	35.0 37.0		SW	Medium dense brown medium to fine SAND, no odor, wet	-	-	5	40	55	-	-	-	-	-
3 5 8 7	S10 24	40.0 42.0		SP	Medium dense brown fine SAND, no odor, wet	-	-	-	20	80	-	-	-	-	-
1 2 2 2	S11 24	45.0 47.0		SM	Loose brown fine SAND, little silt, no odor, wet	-	-	-	-	80	20	-	-	-	-
					-GLACIOFLUVIAL DEPOSITS-										

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc. — Boring No. B5

TEST BORING REPORT — Boring No. B5 (File No. 36451-000, Sheet No. 3 of 3)

Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	Description	% Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines	Dilatancy	Toughness	Plasticity	Strength
4 7 10 12	S12 24	50.0 52.0	5.4 / 52.0	SP	Medium dense brown fine SAND, no odor, wet -GLACIOFLUVIAL DEPOSITS- Bottom of exploration at 52.0 ft	-	-	-	-	95	5	-	-	-	-

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc. — Boring No. B5

TEST BORING REPORT — Boring No. B6 (Sheet 1 of 3)

Project: Proposed Laboratory and Classroom Building, SCSU; New Haven, Connecticut · Client: Centerbrook Architects and Planners · Contractor: General Borings, Inc.
File No. 36451-000 · Sheet No. 1 of 3 · Start June 9, 2010 · Finish June 9, 2010 · Driller T. McGovern · H&A Rep. G. Jacobsen · Elevation 58.2 · Datum NAVD 88 · Location See Plan
Casing: HSA, 3 1/4, -, - · Sampler: S, 1 3/8, 140, 30 · Barrel: - · Rig Make & Model: Mobile Drill B53 · Bit Type: None · Drill Mud: None · Casing: - · Hoist/Hammer: Winch / Safety Hammer · PID Make & Model: None

Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	Description	% Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines	Dilatancy	Toughness	Plasticity	Strength
4 8 14 22	S1 6	0.0 2.0		SM	Medium dense dark brown silty fine SAND, no odor, dry	-	5	5	10	50	30	-	-	-	-
24 23 20 19	S2 2	2.0 4.0			Recovery is coarse gravel -FILL-										
			55.2 / 3.0		Note: Cuttings changed color at 3.0 ft										
7 10 9 10	S3 22	5.0 7.0		SW	Medium dense brown medium to fine SAND, no odor, dry	-	5	5	40	50	-	-	-	-	-
5 4 5 7	S4 24	10.0 12.0		SW	Similar to S3, except loose. Note: Auger advanced through cobbles/gravel fragments	-	5	5	40	50	-	-	-	-	-
14 17 16 17	S5 0	15.0 17.0			No recovery (pushing cobble)										
					-GLACIOFLUVIAL DEPOSITS-										

Date	Time	Elapsed Time (hr.)	Depth to Bottom of Casing	Depth to Bottom of Hole	Water
6/9/10	-	-	-	-	30.0 ±

Summary: Overburden (ft) 52.0 · Rock Cored (ft) - · Samples 12S · Boring No. B6

TEST BORING REPORT — Boring No. B6 (File No. 36451-000, Sheet No. 2 of 3)

Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	Description	% Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines	Dilatancy	Toughness	Plasticity	Strength
17 19 13 10	S6 4	20.0 22.0		SW	Medium dense brown medium to fine SAND, trace gravel, no odor, dry	-	10	10	40	40	-	-	-	-	-
7 7 8 13	S7 15	25.0 27.0		SW	Medium dense brown medium to fine SAND, no odor, dry	-	-	5	40	55	-	-	-	-	-
5 3 8 7	S8 18	30.0 32.0		SW	Similar to S7, except wet	-	-	5	40	55	-	-	-	-	-
3 6 7 8	S9 24	35.0 37.0		SP	Medium dense brown medium to fine SAND, no odor, wet	-	-	-	40	60	-	-	-	-	-
8 9 10 9	S10 24	40.0 42.0		SP	Similar to S9	-	-	-	40	60	-	-	-	-	-
2 4 6 7	S11 24	45.0 47.0		SP	Medium dense brown medium to fine SAND, no odor, wet	-	-	5	40	55	-	-	-	-	-
					-GLACIOFLUVIAL DEPOSITS-										

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc. — Boring No. B6

TEST BORING REPORT — Boring No. B6 (File No. 36451-000, Sheet No. 3 of 3)

Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	Description	% Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines	Dilatancy	Toughness	Plasticity	Strength
3 6 7 9	S12 24	50.0 52.0	6.2 / 52.0	SM	Medium dense brown fine SAND, little silt, no odor, wet -GLACIOFLUVIAL DEPOSITS- Bottom of exploration at 52.0 ft	-	-	-	-	80	20	-	-	-	-

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc. — Boring No. B6

TEST BORING REPORT — Boring No. B7 (Sheet 1 of 2)

Project: Proposed Laboratory and Classroom Building, SCSU; New Haven, Connecticut · Client: Centerbrook Architects and Planners · Contractor: General Borings, Inc.
File No. 36451-000 · Sheet No. 1 of 2 · Start June 8, 2010 · Finish June 8, 2010 · Driller T. McGovern · H&A Rep. G. Jacobsen · Elevation 56.1 · Datum NAVD 88 · Location See Plan
Casing: HSA, 3 1/4, -, - · Sampler: S, 1 3/8, 140, 30 · Barrel: - · Rig Make & Model: Mobile Drill B53 · Bit Type: None · Drill Mud: None · Casing: - · Hoist/Hammer: Winch / Safety Hammer · PID Make & Model: None

Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	Description	% Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines	Dilatancy	Toughness	Plasticity	Strength
			55.7 / 0.4		-ASPHALT-										
7 10 12 16	S1 18	0.5 2.5		SP	Medium dense brown medium to fine SAND, no odor, dry	-	-	-	20	75	5	-	-	-	-
12 12 9 12	S2 14	2.5 4.5		SP	Medium dense stratified brown fine SAND and medium to fine SAND, no odor, dry	-	-	-	5	90	5	-	-	-	-
14 17 16 11	S3 0	5.0 7.0			No recovery										
11 12 11 13	S4 18	10.0 12.0		SP	Medium dense brown medium to fine SAND, trace gravel, no odor, dry	-	10	-	30	60	-	-	-	-	-
5 7 17 18	S5 10	15.0 17.0		SP	Medium dense brown fine SAND, no odor, dry	-	-	-	5	90	5	-	-	-	-
					-GLACIOFLUVIAL DEPOSITS-										

Date	Time	Elapsed Time (hr.)	Depth to Bottom of Casing	Depth to Bottom of Hole	Water
6/8/10	-	-	30.0	32.0	30.0 ±

Summary: Overburden (ft) 37.0 · Rock Cored (ft) - · Samples 9S · Boring No. B7

TEST BORING REPORT — Boring No. B7 (File No. 36451-000, Sheet No. 2 of 2)

Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	Description	% Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines	Dilatancy	Toughness	Plasticity	Strength
9 9 11 12	S6 18	20.0 22.0		SP- SM	Medium dense brown fine SAND, little silt, no odor, dry	-	-	-	-	90	10	-	-	-	-
6 7 10 12	S7 15	25.0 27.0		SP/ SM	Medium dense brown fine SAND, trace silt interbedded with silty fine SAND, no odor, moist to wet	-	-	-	-	90 / 70	10 / 30	-	-	-	-
3 3 5 5	S8 20	30.0 32.0		SM	Loose brown silty fine SAND, no odor, wet	-	-	-	-	80	20	-	-	-	-
4 7 6 6	S9 18	35.0 37.0	19.1 / 37.0	SM	Similar to S8, except medium dense -GLACIOFLUVIAL DEPOSITS- Bottom of exploration at 37.0 ft	-	-	-	-	80	20	-	-	-	-

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc. — Boring No. B7

TEST BORING REPORT — Boring No. B8 (Sheet 1 of 2)

Project: Proposed Laboratory and Classroom Building, SCSU; New Haven, Connecticut · Client: Centerbrook Architects and Planners · Contractor: General Borings, Inc.
File No. 36451-000 · Sheet No. 1 of 2 · Start June 8, 2010 · Finish June 8, 2010 · Driller E. Del Priore · H&A Rep. G. Jacobsen · Elevation 56.4 · Datum NAVD 88 · Location See Plan
Casing: HSA, 3 1/4, -, - · Sampler: S, 1 3/8, 140, 30 · Barrel: - · Rig Make & Model: Mobile Drill B53 · Bit Type: None · Drill Mud: None · Casing: - · Hoist/Hammer: Winch / Safety Hammer · PID Make & Model: None

Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	Description	% Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines	Dilatancy	Toughness	Plasticity	Strength
			56.0 / 0.4		-ASPHALT-										
10 9 7 11	S1 18	0.5 2.5		SW	Medium dense brown coarse to fine SAND, little gravel, moderate odor, dry	-	10	10	35	45	-	-	-	-	-
11 11 13 18	S2 12	2.5 4.5		SW	Medium dense brown medium to fine SAND, moderate odor, dry	-	-	5	40	45	-	-	-	-	-
11 12 11 10	S3 12	5.0 7.0		SW	Medium dense brown medium to fine SAND, no odor, dry	-	-	5	40	45	-	-	-	-	-
5 4 5 8	S4 20	10.0 12.0		SW	Loose brown medium to fine SAND, slight odor, dry	-	-	-	40	60	-	-	-	-	-
5 7 9 12	S5 18	15.0 17.0		SP	Medium dense brown medium to fine SAND, slight odor, dry	-	-	-	40	60	-	-	-	-	-
					-GLACIOFLUVIAL DEPOSITS-										

Date	Time	Elapsed Time (hr.)	Depth to Bottom of Casing	Depth to Bottom of Hole	Water
6/8/10	-	-	30.0	32.0	30.0 ±

Summary: Overburden (ft) 32.0 · Rock Cored (ft) - · Samples 8S · Boring No. B8

Field Tests: Dilatancy R - Rapid S - Slow N - None · Toughness L - Low M - Medium H - High · Plasticity N - Nonplastic L - Low M - Medium H - High · Dry Strength N - None L - Low M - Medium H - High V - Very High
*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.
Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

drawing title	BORING LOGS
	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES
REVISIONS: mark / date / description	11-21-2012 Bid Documents
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project	SCSU ACADEMIC LABORATORY BUILDING
CAD no.	1300
project no.	BI-RS-283
volume	1 of 2
date	11-21-2012
scale	NTS
drawn by	DJK
approved by	TD
drawing no.	C106

TEST BORING REPORT — Boring No. B8 (Sheet No. 2 of 2)

HALEY & ALDRICH — File No. 36451-000

Sample No.	Sampler Blows per 6 in.	Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	Visual-Manual Identification and Description	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines
S6	8 9 13 12	18	20.0-22.0		SP	Medium dense tan medium to fine SAND, no odor, dry	-	-	-	30	70	-
S7	8 7 8 11	20	25.0-27.0		SP	Medium dense brown fine SAND, slight odor, dry	-	-	-	-	95	5
S8	4 5 5 7	12	30.0-32.0		SP	Medium dense brown fine SAND, no odor, wet	-	-	-	-	95	5
				24.4 / 32.0		-GLACIOFLUVIAL DEPOSITS- Bottom of exploration at 32.0 ft						

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc. — Boring No. B8

TEST BORING REPORT — Boring No. B8A-OW (Sheet No. 1 of 2)

Project: Proposed Laboratory and Classroom Building, SCSU; New Haven, Connecticut
Client: Centerbrook Architects and Planners
Contractor: General Borings, Inc.
File No. 36451-000; Start June 10, 2010; Finish June 10, 2010; Driller T. McGovern; H&A Rep. G. Jacobsen; Elevation 56.4 (est.); Datum NAVD 88; Location See Plan

	Casing	Sampler	Barrel
Type	HSA	S	-
Inside Diameter (in.)	3 1/4	1 3/8	-
Hammer Weight (lb)	-	140	-
Hammer Fall (in.)	-	30	-

Rig Make & Model: Mobile Drill B53; Bit Type: None; Drill Mud: None; Casing: -; Hoist/Hammer: Winch / Safety Hammer; PID Make & Model: None

Sample No.	Blows per 6 in.	Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS	Description	G % Coarse	G % Fine	S % Coarse	S % Medium	S % Fine	% Fines
				56.0 / 0.4								
S1	21 25 25 29	24	0.5-2.5		SW	Dense brown coarse to fine SAND, no odor, dry. Note: Sampled with 3 in. split spoon	-	5	10	40	45	-
S2	33 32 43 40	24	2.5-4.5		SW	Similar to S1. Note: Sampled with 3 in. split spoon. Note: Auger advanced to 25.0 ft and resumed sampling	-	-	10	40	50	-
						-GLACIOFLUVIAL DEPOSITS-						

Date	Time	Elapsed Time (hr.)	Bottom of Casing	Bottom of Hole	Water
6/10/10	-	-	-	-	30.0 ±
6/10/10	-	2.0	-	-	30.0 ±

Summary: Overburden (ft) 35.0; Rock Cored (ft) -; Samples 4S. Boring No. B8A-OW

TEST BORING REPORT — Boring No. B8A-OW (Sheet No. 2 of 2)

Sample No.	Blows per 6 in.	Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS	Description	G % Coarse	G % Fine	S % Coarse	S % Medium	S % Fine	% Fines
S3	6 9 12 13	24	25.0-27.0		SP	Medium dense brown fine SAND, no odor, dry	-	-	-	-	95	5
S4	13 12 12 11	24	27.0-29.0		SP	Similar to S3, except moist. Note: Auger advanced to 35.0 ft for well installation	-	-	-	-	95	5
				21.4 / 35.0		-GLACIOFLUVIAL DEPOSITS- Bottom of exploration at 35.0 ft. Note: Groundwater observation well installed in completed borehole. See "Observation Well Installation Report "B8A-OW" for details						

TEST BORING REPORT — Boring No. B9 (Sheet No. 1 of 2)

Project: Proposed Laboratory and Classroom Building, SCSU; New Haven, Connecticut; Client: Centerbrook Architects and Planners; Contractor: General Borings, Inc.
File No. 36451-000; Start June 10, 2010; Finish June 10, 2010; Driller T. McGovern; H&A Rep. G. Jacobsen; Elevation 56.5; Datum NAVD 88; Location See Plan
Casing HSA, 3 1/4; Sampler S, 1 3/8, 140 lb, 30 in.; Rig Mobile Drill B53; Hoist/Hammer: Winch / Safety Hammer

Sample No.	Blows per 6 in.	Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS	Description	G % Coarse	G % Fine	S % Coarse	S % Medium	S % Fine	% Fines
				56.2 / 0.3		-ASPHALT-						
S1	17 25 24 23	22	0.5-2.5		SW	Note: 3 in. split spoon used for sampling S1 and S2. Dense brown medium to fine SAND, no odor, dry	-	-	5	40	55	-
S2	19 27 29 30	18	2.5-4.5		SP	Dense brown medium to fine SAND, no odor, dry	-	-	-	35	65	-
S3	5 7 8 9	18	5.0-7.0		SW	Medium dense brown coarse to fine SAND, no odor, dry	-	-	10	40	50	-
S4	3 3 6 8	22	10.0-12.0		SW	Loose brown coarse to fine SAND, no odor, dry. Note: Auger advanced through gravel/cobbles from approximately 13.0 to 15.0 ft	-	-	20	35	45	-
S5	27 18 17 17	0	15.0-17.0			No recovery (pushing cobble)						
						-GLACIOFLUVIAL DEPOSITS-						

Water Level Data: 6/10/10, -, -, -, -, 30.0 ±. Summary: Overburden (ft) 32.0; Rock Cored (ft) -; Samples 9S. Boring No. B9

TEST BORING REPORT — Boring No. B9 (Sheet No. 2 of 2)

Sample No.	Blows per 6 in.	Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS	Description	G % Coarse	G % Fine	S % Coarse	S % Medium	S % Fine	% Fines
S6	55 32 54	0	20.0-21.5			No recovery (pushing cobble)						
S7	33 42 57 11	6	23.0-25.0			Pushing cobble, sample not representative						
				32.0 / 24.5								
S8	10 13 18 27	22	25.0-27.0		SP	Dense brown medium to fine SAND, no odor, dry	-	-	5	40	55	-
S9	5 5 7 6	24	30.0-32.0		SM	Medium dense brown silty fine SAND, no odor, wet	-	-	-	-	70	30
				24.5 / 32.0		-GLACIOFLUVIAL DEPOSITS- Bottom of exploration at 32.0 ft						

TEST BORING REPORT — Boring No. B10 (Sheet No. 1 of 2)

Project: Proposed Laboratory and Classroom Building, SCSU; New Haven, Connecticut; Client: Centerbrook Architects and Planners; Contractor: General Borings, Inc.
File No. 36451-000; Start June 9, 2010; Finish June 9, 2010; Driller T. McGovern; H&A Rep. G. Jacobsen; Elevation 56.5; Datum NAVD 88; Location See Plan
Casing HSA, 3 1/4; Sampler S, 1 3/8, 140 lb, 30 in.; Rig Mobile Drill B53; Hoist/Hammer: Winch / Safety Hammer

Sample No.	Blows per 6 in.	Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS	Description	G % Coarse	G % Fine	S % Coarse	S % Medium	S % Fine	% Fines
				56.1 / 0.4		-ASPHALT-						
S1	8 13 14 18	16	0.5-2.5		SW	Medium dense brown medium to fine SAND, little gravel, no odor, dry	-	15	5	40	40	-
S2	19 19 18 19	14	2.5-4.5		SP	Dense brown stratified medium to fine SAND, and fine SAND, no odor, dry	-	-	-	30	70	-
S3	5 6 6 9	18	5.0-7.0		SP	Medium dense brown fine SAND, no odor, dry	-	-	-	10	90	-
S4	5 9 9 10	18	10.0-12.0		SW	Medium dense brown medium to fine SAND, no odor, dry	-	-	5	30	55	-
S5	7 8 13 13	15	15.0-17.0		SP	Medium dense brown fine SAND, no odor, dry	-	-	-	10	90	-
						-GLACIOFLUVIAL DEPOSITS-						

Water Level Data: 6/9/10, -, -, 30.0, 32.0, 30.0 ±. Summary: Overburden (ft) 32.0; Rock Cored (ft) -; Samples 8S. Boring No. B10

TEST BORING REPORT — Boring No. B10 (Sheet No. 2 of 2)

Sample No.	Blows per 6 in.	Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS	Description	G % Coarse	G % Fine	S % Coarse	S % Medium	S % Fine	% Fines
S6	7 8 8 11	18	20.0-22.0		SP	Medium dense brown medium to fine SAND, no odor, dry	-	-	-	30	70	-
S7	6 8 8 8	22	25.0-27.0		SP	Similar to S6, except with 3 in. layer of silty fine SAND	- / -	- / -	- / -	30 / -	70 / 90	- / 30
S8	3 6 6 6	20	30.0-32.0		SP	Medium dense brown fine SAND, no odor, wet	-	-	-	5	90	5
				24.5 / 32.0		-GLACIOFLUVIAL DEPOSITS- Bottom of exploration at 32.0 ft						

TEST BORING REPORT — Boring No. B11-OW (Sheet No. 1 of 2)

Project: Proposed Laboratory and Classroom Building, SCSU; New Haven, Connecticut; Client: Centerbrook Architects and Planners; Contractor: General Borings, Inc.
File No. 36451-000; Start June 7, 2010; Finish June 8, 2010; Driller T. McGovern; H&A Rep. G. Jacobsen; Elevation 56.8; Datum NAVD 88; Location See Plan
Casing HSA, 3 1/4; Sampler S, 1 3/8, 140 lb, 30 in.; Rig Mobile Drill B53; Hoist/Hammer: Winch / Safety Hammer

Sample No.	Blows per 6 in.	Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS	Description	G % Coarse	G % Fine	S % Coarse	S % Medium	S % Fine	% Fines
				56.2 / 0.6		-ASPHALT-						
S1	10 18 19 19	18	0.5-2.5		SW	Dense brown coarse to fine SAND, little gravel, no odor, dry	-	10	10	40	40	-
S2	26 22 18 18	20	2.5-4.5		SW	Dense brown gravelly coarse to fine SAND, no odor, dry	10	10	15	30	35	-
S3	4 9 10 9	18	5.0-7.0		SW	Medium dense brown coarse to fine SAND, little gravel interbedded with medium to fine SAND, no odor, dry	- / -	10 / -	20 / 10	30 / 40	40 / 50	- / -
S4	9 10 11 11	14	10.0-12.0		SP	Medium dense brown medium to fine SAND interbedded with fine sand, little silt, no odor, dry	- / -	- / -	- / -	30 / -	55 / 90	5 / 10
				42.8 / 14.0		Note: Auger advanced through cobbles/boulders from approximately 14.0 to 15.0 ft						
S5	64 25 16 17	0	15.0-17.0			No recovery (pushing cobble)						
						-GLACIOFLUVIAL DEPOSITS-						

Water Level Data: 6/8/10, -, -, -, -, 29.0 ±. Summary: Overburden (ft) 37.0; Rock Cored (ft) -; Samples 9S. Boring No. B11-OW

TEST BORING REPORT — Boring No. B11-OW (Sheet No. 2 of 2)

Sample No.	Blows per 6 in.	Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS	Description	G % Coarse	G % Fine	S % Coarse	S % Medium	S % Fine	% Fines
S6	10 18 18 17	18	20.0-22.0		SW	Dense brown medium to fine SAND, no odor, dry	-	-	10	40	50	-
S7	7 9 11 12	18	25.0-27.0		SM	Medium dense light brown fine SAND, little silt, no odor, dry	-	-	-	-	80	20
S8	6 6 7 7	18	30.0-32.0		SP	Medium dense brown fine SAND, trace silt, no odor, wet	-	-	-	9	90	5
S9	1 1 2 4	20	35.0-37.0		SP	Similar to S8, except very loose	-	-	-	5	90	5
				19.8 / 37.0		-GLACIOFLUVIAL DEPOSITS- Bottom of exploration at 37.0 ft. Note: Groundwater observation well installed in completed borehole. See "Observation Well Installation Report "B11-OW" for details						

TEST BORING REPORT — Boring No. B12 (Sheet No. 1 of 2)

Project: Proposed Laboratory and Classroom Building, SCSU; New Haven, Connecticut; Client: Centerbrook Architects and Planners; Contractor: General Borings, Inc.
File No. 36451-000; Start June 9, 2010; Finish June 9, 2010; Driller J. Kasson; H&A Rep. G. Jacobsen; Elevation 56.8; Datum NAVD 88; Location See Plan
Casing HSA, 3 1/4; Sampler S, 1 3/8, 140 lb, 30 in.; Rig Mobile Drill B53; Hoist/Hammer: Winch / Safety Hammer

Sample No.	Blows per 6 in.	Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS	Description	G % Coarse	G % Fine	S % Coarse	S % Medium	S % Fine	% Fines
				56.5 / 0.3		-ASPHALT-						
				56.0 / 0.8		-SUBBASE-						
S1	9 16 15 17	18	1.0-3.0		SW	Dense brown medium to fine SAND, trace gravel, no odor, dry	-	5	5	40	50	-
S2	17 22 27 39	12	3.0-5.0		SW	Dense brown coarse to fine SAND, little gravel, no odor, dry	10	10	20	30	30	-
S3	12 14 14 17	18	5.0-7.0		SW	Similar to S2, except medium dense	5	10	20	30	35	-
S4	11 13 16 18	14	10.0-12.0		SP	Medium dense brown medium to fine SAND, no odor dry	-	-	-	40	60	-
S5	24 22 19 21	6	15.0-17.0		SW	Dense brown coarse to fine SAND, little gravel, no odor, dry	-	10	10	35	45	-
						-GLACIOFLUVIAL DEPOSITS-						

Water Level Data: 6/9/10, -, -, 30.0, 32.0, 30.0 ±. Summary: Overburden (ft) 32.0; Rock Cored (ft) -; Samples 8S. Boring No. B12

TEST BORING REPORT — Boring No. B12 (Sheet No. 2 of 2)

Sample No.	Blows per 6 in.	Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS	Description	G % Coarse	G % Fine	S % Coarse	S % Medium	S % Fine	% Fines
S6	9 11 15 10	16	20.0-22.0		SP	Medium dense brown medium to fine SAND, no odor, dry	-	-	-	30	70	-
S7	19 29 34 32	14	25.0-27.0		SP	Very dense brown fine SAND, no odor, dry	-	-	-	10	90	-
S8	7 8 10 12	12	30.0-32.0		SP	Medium dense brown fine SAND, no odor, wet	-	-	-	10	90	-
				24.8 / 32.0		-GLACIOFLUVIAL DEPOSITS- Bottom of exploration at 32.0 ft						

TEST BORING REPORT — Boring No. B13 (Sheet No. 1 of 2)

Project: Proposed Laboratory and Classroom Building, SCSU; New Haven, Connecticut; Client: Centerbrook Architects and Planners; Contractor: General Borings, Inc.
File No. 36451-000; Start June 8, 2010; Finish June 8, 2010; Driller E. Del Priore; H&A Rep. G. Jacobsen; Elevation 58.4; Datum NAVD 88; Location See Plan
Casing HSA, 3 1/4; Sampler S, 1 3/8, 140 lb, 30 in.; Rig Mobile Drill B53; Hoist/Hammer: Winch / Safety Hammer

Sample No.	Blows per 6 in.	Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS	Description	G % Coarse	G % Fine	S % Coarse	S % Medium	S % Fine	% Fines
				58.1 / 0.3		-ASPHALT-						
S1	16 18 21 20	8	0.5-2.5		SM	Dense brown silty fine SAND, trace gravel, slight odor, dry	-	5	-	-	65	30
S2	16 11 17 15	11	2.5-4.5		SM	Medium dense brown silty fine SAND, slight odor, dry	-	-	5	-	65	30
S3	7 6 4 5	4	5.0-7.0		SM	Loose red-brown silty fine SAND, moderate odor, dry	-	-	5	-	65	30
S4	5 4 5 5	24	7.0-9.0		SM	Similar to S3	-	-	5	-	65	30
S5	4 4 4 4	24	10.0-12.0		SM	Similar to S4	-	-	5	-	65	30
				46.4 / 12.0		-FILL-						
S6	25 26 21 27	10	15.0-17.0		SW	Dense brown coarse to fine SAND, little gravel, no odor, dry	5	10	20	30	30	5
						-GLACIOFLUVIAL DEPOSITS-						

Water Level Data: 6/8/10, -, -, -, -, 31.5 ±. Summary: Overburden (ft) 32.0; Rock Cored (ft) -; Samples 9S. Boring No. B13

TEST BORING REPORT — Boring No. B13 (Sheet No. 2 of 2)

Sample No.	Blows per 6 in.	Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS	Description	G % Coarse	G % Fine	S % Coarse	S % Medium	S % Fine	% Fines
S7	11 13 15 14	16	20.0-22.0		SW	Medium dense brown coarse to fine SAND, trace gravel, no odor, dry	-	10	10	35	40	5
S8	4 4 5 6	17	25.0-27.0		SW	Loose brown medium to fine SAND, slight odor, dry	-	-	10	40	50	-
S9	4 4 5 6	18	30.0-32.0		SW	Similar to S8, except bottom of sample is wet	-	-	5	45	50	-
				26.4 / 32.0		-GLACIOFLUVIAL DEPOSITS- Bottom of exploration at 32.0 ft						

TEST BORING REPORT — Boring No. B13A (Sheet No. 1 of 2)

Project: Proposed Laboratory and Classroom Building, SCSU; New Haven, Connecticut; Client: Centerbrook Architects and Planners; Contractor: General Borings, Inc.
File No. 36451-000; Start June 7, 2010; Finish June 8, 2010; Driller T. McGovern; H&A Rep. G. Jacobsen; Elevation 58.4 (est.); Datum NAVD 88; Location See Plan
Casing HSA, 3 1/4; Sampler S, 1 3/8, 140 lb, 30 in.; Rig Mobile Drill B53; Hoist/Hammer: Winch / Safety Hammer

58.1 / 0.3 -ASPHALT-

Note: 0.3 ft of Asphalt at top of boring.

Note: Auger advanced to 25.0 ft and began sampling

Water Level Data: Not Encountered. Summary: Overburden (ft) 29.0; Rock Cored (ft) -; Samples 2S. Boring No. B13A

TEST BORING REPORT — Boring No. B13A (Sheet No. 2 of 2)

Sample No.	Blows per 6 in.	Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS	Description	G % Coarse	G % Fine	S % Coarse	S % Medium	S % Fine	% Fines
S1	10 7 6 10	14	25.0-27.0		SP	Medium dense brown medium to fine SAND, no odor, dry. Note: Sampled with 3 in. split spoon	-	5	10	40	45	-
S2	9 9 9 9	18	27.0-29.0		SP	Medium dense brown medium to fine SAND, no odor, dry. Note: Sampled with 3 in. split spoon	-	-	5	45	50	-
				29.4 / 29.0		-GLACIOFLUVIAL DEPOSITS- Bottom of exploration at 29.0 ft						

TEST BORING REPORT — Boring No. B14 (Sheet No. 1 of 2)

Project: Proposed Laboratory and Classroom Building, SCSU; New Haven, Connecticut; Client: Centerbrook Architects and Planners; Contractor: General Borings, Inc.
File No. 36451-000; Start June 11, 2010; Finish June 11, 2010; Driller T. McGovern; H&A Rep. G. Jacobsen; Elevation 57.6 (est.); Datum NAVD 88; Location See Plan
Casing HSA, 3 1/4; Sampler S, 1 3/8, 140 lb, 30 in.; Rig Mobile Drill B53; Hoist/Hammer: Winch / Safety Hammer

Sample No.	Blows per 6 in.	Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS	Description	G % Coarse	G % Fine	S % Coarse	S % Medium	S % Fine	% Fines
S1	3 5 7 12	22	0.0-2.0		SM	Medium dense brown silty medium to fine SAND, no odor, dry	-	-	10	20	50	20
				55.6 / 2.0		-FILL-						
S2	13 18 23 21	10	2.0-4.0		SW-SM	Dense brown medium to fine SAND, little silt and gravel, no odor, dry	-	10	10	30	40	10
S3	5 13 12 11	16	5.0-7.0		SW	Medium dense brown medium to fine SAND, trace gravel, no odor, dry	-	10	5	35	50	-
S4	6 7 9 9	14	10.0-12.0		SP	Medium dense brown fine SAND, no odor, dry	-	-	-	10	90	-
S5	7 8 7 8	12	15.0-17.0		SW	Medium dense brown coarse to fine SAND, no odor, dry	-	-	20	30	50	-
						-GLACIOFLUVIAL DEPOSITS-						

Water Level Data: 6/11/10, -, -, -, -, 30.0 ±. Summary: Overburden (ft) 32.0; Rock Cored (ft) -; Samples 8S. Boring No. B14

TEST BORING REPORT — Boring No. B14 (Sheet No. 2 of 2)

Sample No.	Blows per 6 in.	Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS	Description	G % Coarse	G % Fine	S % Coarse	S % Medium	S % Fine	% Fines
S6	7 9 8 11	4	20.0-22.0		SP	Medium dense brown gravelly coarse to fine SAND, no odor, dry	5	15	10	30	40	-
S7	6 6 7 6	10	25.0-27.0		SP	Medium dense brown fine SAND, no odor, dry	-	-	-	10	90	-
S8	5 5 7 7	20	30.0-32.0		SP	Medium dense brown fine sand, no odor, wet	-	-	-	10	90	-
				25.6 / 32.0		-GLACIOFLUVIAL DEPOSITS- Bottom of exploration at 32.0 ft						

Field Tests: Dilatancy R - Rapid S - Slow N - None; Toughness L - Low M - Medium H - High; Plasticity N - Nonplastic L - Low M - Medium H - High; Dry Strength N - None L - Low M - Medium H - High V - Very High
Sample ID: O - Open End Rod; T - Thin Wall Tube; U - Undisturbed Sample; S - Split Spoon Sample. Well Diagram: Riser Pipe, Screen, Filter Sand, Cuttings, Grout, Concrete, Bentonite Seal
*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.
Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

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drawing title: BORING LOGS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY: MILONE & MACBROOM — Engineering, Landscape Architecture and Environmental Science — 99 Realty Drive, Cheshire, Connecticut 06410, (203) 271-1773 Fax (203) 272-9733, www.miloneandmacbroom.com

project: SCSU ACADEMIC LABORATORY BUILDING

CAD no. 1300; project no. BI-RS-283

volume 1 of 2; date 11-21-2012; scale NTS; drawn by DJK; approved by TD; drawing no. C107

TEST PIT LOG

HALEY & ALDRICH

Test Pit No.	TP1

Project	Proposed Laboratory and Classroom Building, SCSU	File No.	36451-000
Location	New Haven, Connecticut	H&A Rep	G. Jacobsen
Client	Centerbrook Architects and Planners	Date	6/10/2010
Contractor	General Borings, Inc.		
Equipment Used	Case 580B	Weather	Clear, 80°F

Ground El.: 56.9 | Location: See Plan | Groundwater depths/entry rates (in./min.): NE

El. Datum: NAVD 88

Depth (ft)	Sample ID	Stratum Change Elev./ Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (color, natural grain size and artificial component percentage estimates, manual test properties, structure, odors, moisture, other descriptions and observations GEOLOGIC INTERPRETATION)
0		56.5 / 0.4		-ASPHALT-
			SP	Brown gravelly medium to fine SAND, trace brick
2				
4				Note: pocket of brick rubble observed on test pit sidewalls at approximately 4.5 to 5 ft
		51.4 / 5.5		-FILL-
6			SP	Red-brown stratified medium to fine SAND with layers of gravelly coarse to fine sand
		49.4 / 7.5		-GLACIOFLUVIAL DEPOSITS-
				Bottom of excavation at 7.5 ft

Obstructions:

Remarks: Demolished power plant building foundation not encountered.

Field Tests: Dilatancy R - Rapid S - Slow N - None; Toughness L - Low M - Medium H - High; Plasticity N - Nonplastic L - Low M - Medium H - High; Dry Strength N - None L - Low M - Medium H - High V - Very High

Standing Water in Completed Pit: at depth NE ft; measured after - hours elapsed

Boulders Diameter (in.)	Number	Approx. Vol. (cu.ft)
12 to 24	-	= -
over 24	-	= -

Test Pit Dimensions (ft): Pit Length x Width (ft) 18 x 4; Pit Depth (ft) 7.5

NOTE: Soil identification based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

TEST PIT LOG

HALEY & ALDRICH

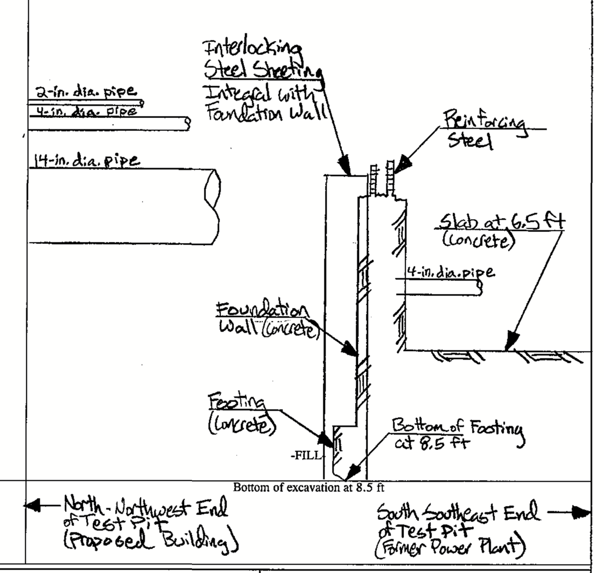
Test Pit No.	TP2

Project	Proposed Laboratory and Classroom Building, SCSU	File No.	36451-000
Location	New Haven, Connecticut	H&A Rep	G. Jacobsen
Client	Centerbrook Architects and Planners	Date	6/10/2010
Contractor	General Borings, Inc.		
Equipment Used	Case 580B	Weather	Clear, 80°F

Ground El.: 57.6 | Location: See Plan | Groundwater depths/entry rates (in./min.): NE

El. Datum: NAVD 88

Depth (ft)	Sample ID	Stratum Change Elev./ Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (color, natural grain size and artificial component percentage estimates, manual test properties, structure, odors, moisture, other descriptions and observations GEOLOGIC INTERPRETATION)
0			SP	Brown gravelly coarse to fine SAND, little brick, concrete, and metal
		49.1 / 8.5		-FILL-
				Bottom of excavation at 8.5 ft



Obstructions: Former foundation wall and slab (see sketch).

Remarks: Natural soils not encountered to depths explored.

Field Tests: Dilatancy R - Rapid S - Slow N - None; Toughness L - Low M - Medium H - High; Plasticity N - Nonplastic L - Low M - Medium H - High; Dry Strength N - None L - Low M - Medium H - High V - Very High

Standing Water in Completed Pit: at depth NE ft; measured after - hours elapsed

Boulders Diameter (in.)	Number	Approx. Vol. (cu.ft)
12 to 24	-	= -
over 24	1	= 6

Test Pit Dimensions (ft): Pit Length x Width (ft) 16 x 8; Pit Depth (ft) 8.5

NOTE: Soil identification based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

GROUNDWATER OBSERVATION WELL INSTALLATION REPORT

HALEY & ALDRICH

Well No. B8A-OW | Boring No. B8A-OW

Project: Proposed Laboratory and Classroom Building, SCSU
Location: New Haven, Connecticut
Client: Centerbrook Architects and Planners
Contractor: General Borings, Inc.
Driller: T. McGovern
Initial Water Level (depth bgs) 30.0 ± ft

Well Diagram: Riser Pipe, Screen, Filter Sand, Cuttings, Grout, Concrete, Bentonite Seal

File No. 36451-000; Date Installed 10 Jun 2010; H&A Rep. G. Jacobsen; Location See Plan; Ground El. 56.4 (est.); Datum NAVD 88

SOIL/ROCK CONDITIONS: ASPHALT 0.4; GLACIOFLUVIAL DEPOSITS; bottom 35.0

Depth (ft.)	Elevation (ft.)
0.0	56.4
0.9	55.5
22.0	34.4
24.0	32.4
25.0	31.4
35.0	21.4

WELL CONSTRUCTION DETAILS

Type of protective cover	1/2 hexbolts
Depth of Roadway Box below ground surface	0.0 ft
Depth of top of riser below ground surface	0.5 ft
Type of protective casing	Roadway Box
Length	0.9 ft
Inside diameter	6.0 in.
Depth of bottom of Roadway Box	0.9 ft
Type of riser pipe	Schedule 40 PVC
Inside diameter of riser pipe	2.0 in.
Depth of bottom of riser pipe	25.0 ft

Type of Seals	Top of Seal (ft)	Thickness (ft)
Concrete	0.0 ft	0.9 ft
Bentonite	22.0 ft	2.0 ft
	-	-

Diameter of borehole	8 in.
Type of screen	Machine slotted Sch 40 PVC
Screen gauge or size of openings	0.010 in.
Diameter of screen	2.0 in.
Depth to top of well screen	25.0 ft
Depth to bottom of well screen	35.0 ft
Bottom of silt trap	35.0 ft
Depth of bottom of borehole	35.0 ft

COMMENTS:

GROUNDWATER MONITORING REPORT

HALEY & ALDRICH

OW/PZ NUMBER B8A-OW | Page 1 of 1

PROJECT: Proposed Laboratory and Classroom Building - SCSU | H&A FILE NO. 36451-000
LOCATION: New Haven, Connecticut | PROJECT MGR. J. Difini
CLIENT: Centerbrook Architects and Planners | FIELD REP. G. Jacobsen
CONTRACTOR: General Borings, Inc. | DATE 6/8/2010
ELEVATION OF REFERENCE POINT 56.4
DESCRIPTION OF REFERENCE POINT ☐ PVC ☐ Roadway / Casing ☑ Ground Surface ☐ Other:

Date	Time	Elapsed Time (days)	Depth to Water from Reference Point	Elevation of Water	Remarks	Read By
8-Jun-10	--	0	30	26.4	Initial Reading	GJ
6-Jul-10	07:35	28	30.4	26.0		TD
5-Aug-10	07:10	58	--	--	Dry; Bottom of Well 28.9 ft	TD
7-Sep-10	07:10	91	29.7	26.7	Bottom of Well 30.0 ft	TD

Form #3170

GROUNDWATER OBSERVATION WELL INSTALLATION REPORT

HALEY & ALDRICH

Well No. B11-OW | Boring No. B11-OW

Project: Proposed Laboratory and Classroom Building, SCSU
Location: New Haven, Connecticut
Client: Centerbrook Architects and Planners
Contractor: General Borings, Inc.
Driller: T. McGovern
Initial Water Level (depth bgs) 29.0 ± ft

Well Diagram: Riser Pipe, Screen, Filter Sand, Cuttings, Grout, Concrete, Bentonite Seal

File No. 36451-000; Date Installed 08 Jun 2010; H&A Rep. G. Jacobsen; Location See Plan; Ground El. 56.8; Datum NAVD 88

SOIL/ROCK CONDITIONS: ASPHALT 0.6; GLACIOFLUVIAL DEPOSITS; bottom 37.0

Depth (ft.)	Elevation (ft.)
0.0	56.8
0.9	55.9
22.0	34.8
24.0	32.8
25.0	31.8
34.8	22.0
37.0	19.8

WELL CONSTRUCTION DETAILS

Type of protective cover	1/2 hexbolts
Depth of Roadway Box below ground surface	0.0 ft
Depth of top of riser below ground surface	0.4 ft
Type of protective casing	Roadway Box
Length	0.9 ft
Inside diameter	6.0 in.
Depth of bottom of Roadway Box	0.9 ft
Type of riser pipe	Schedule 40 PVC
Inside diameter of riser pipe	2.0 in.
Depth of bottom of riser pipe	25.0 ft

Type of Seals	Top of Seal (ft)	Thickness (ft)
Concrete	0.0 ft	0.9 ft
Bentonite	22.0 ft	2.0 ft
	-	-

Diameter of borehole	8 in.
Type of screen	Machine slotted Sch 40 PVC
Screen gauge or size of openings	0.010 in.
Diameter of screen	2.0 in.
Depth to top of well screen	25.0 ft
Depth to bottom of well screen	34.8 ft
Bottom of silt trap	35.0 ft
Depth of bottom of borehole	37.0 ft

COMMENTS:

GROUNDWATER MONITORING REPORT

HALEY & ALDRICH

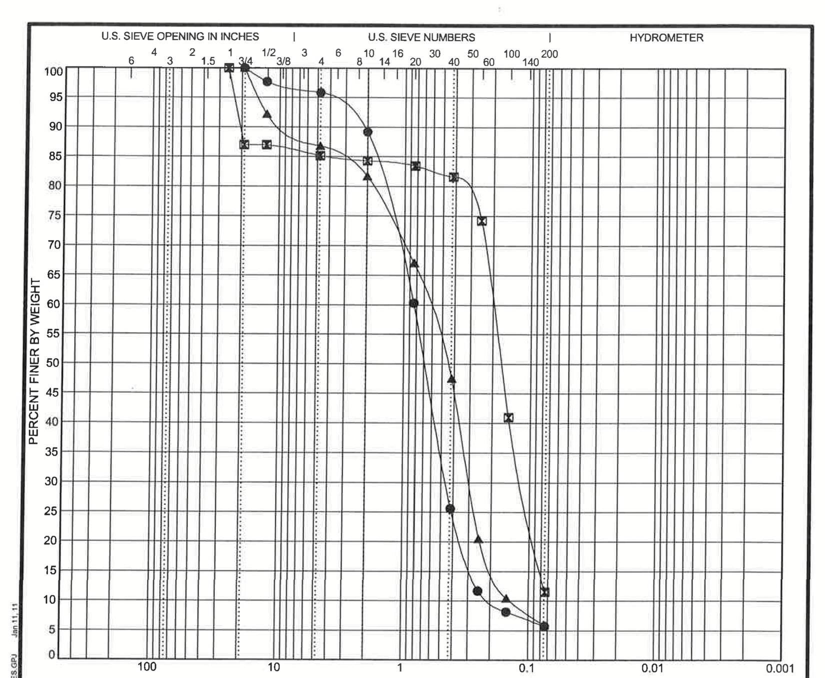
OW/PZ NUMBER B11-OW | Page 1 of 1

PROJECT: Proposed Laboratory and Classroom Building - SCSU | H&A FILE NO. 36451-000
LOCATION: New Haven, Connecticut | PROJECT MGR. J. Difini
CLIENT: Centerbrook Architects and Planners | FIELD REP. G. Jacobsen
CONTRACTOR: General Borings, Inc. | DATE 6/8/2010
ELEVATION OF REFERENCE POINT 56.8
DESCRIPTION OF REFERENCE POINT ☐ PVC ☐ Roadway / Casing ☑ Ground Surface ☐ Other:

Date	Time	Elapsed Time (days)	Depth to Water from Reference Point	Elevation of Water	Remarks	Read By
8-Jun-10	--	0	29	27.8	Initial Reading	GJ
6-Jul-10	07:45	28	30.6	26.2		TD
5-Aug-10	07:00	58	30.4	26.4		TD
7-Sep-10	07:00	91	30.3	26.5	Bottom of Well 33.4 ft	TD

Form #3170

GRAIN SIZE DISTRIBUTION



	COBBLES	% GRAVEL Coarse	% GRAVEL Fine	% SAND Coarse	% SAND Medium	% SAND Fine	% FINES (% Silt / % Clay)
●		0.0	4.2	6.6	63.5	19.9	5.7
⊠		13.0	1.8	0.9	2.7	70.1	11.5
▲		0.0	13.2	5.1	34.2	41.7	5.9

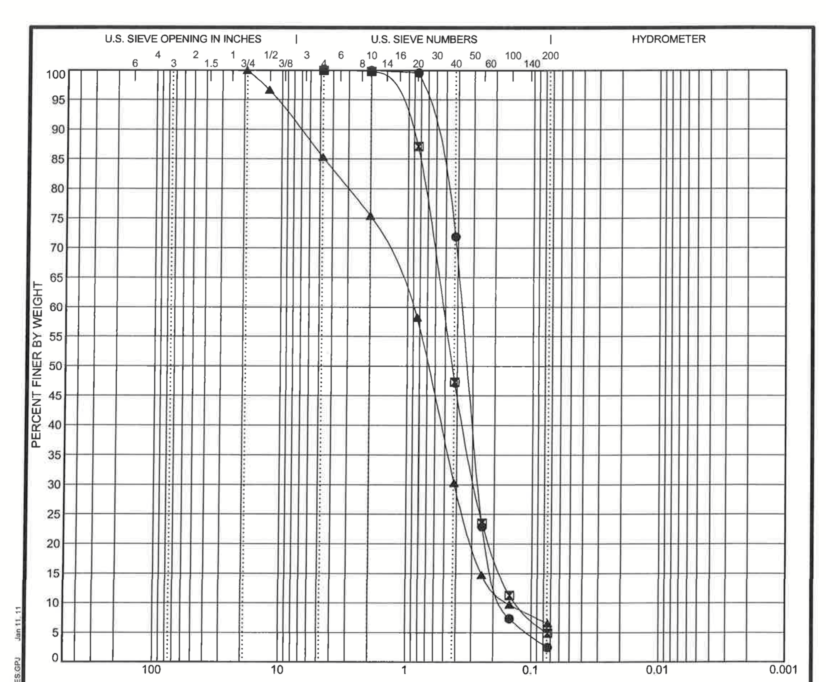
	Expl. No.	Sample No.	Depth (ft.)	LL	PL	PI	Water Content (%)	Cc	Cu
●	B1	S4	10.0-12.0				4.5	1.29	4.27
⊠	B1	S9	35.0-37.0				20.2	0.92	2.81
▲	B11-OW	S3	5.0-7.0				6.5	0.99	4.69

Sample Description
- ● Brown medium SAND, little fine sand, trace coarse sand, trace silt (Natural Soils)
- ⊠ Brown fine SAND, little coarse gravel, little silt (Natural Soils)
- ▲ Brown medium to fine SAND, little coarse gravel, trace coarse sand, trace silt (Natural Soils)

Remarks:

HALEY & ALDRICH, Rocky Hill, Connecticut — Proposed Laboratory and Classroom Building, Southern Connecticut State University, New Haven, Connecticut — GRAIN SIZE DISTRIBUTION — Date: 7/12/2010 — File No.: 36451-000

GRAIN SIZE DISTRIBUTION



	COBBLES	% GRAVEL Coarse	% GRAVEL Fine	% SAND Coarse	% SAND Medium	% SAND Fine	% FINES (% Silt / % Clay)
●		0.0	0.0	0.0	28.1	69.4	2.5
⊠		0.0	0.0	0.2	52.5	42.4	4.9
▲		0.0	14.7	9.9	45.1	23.8	6.5

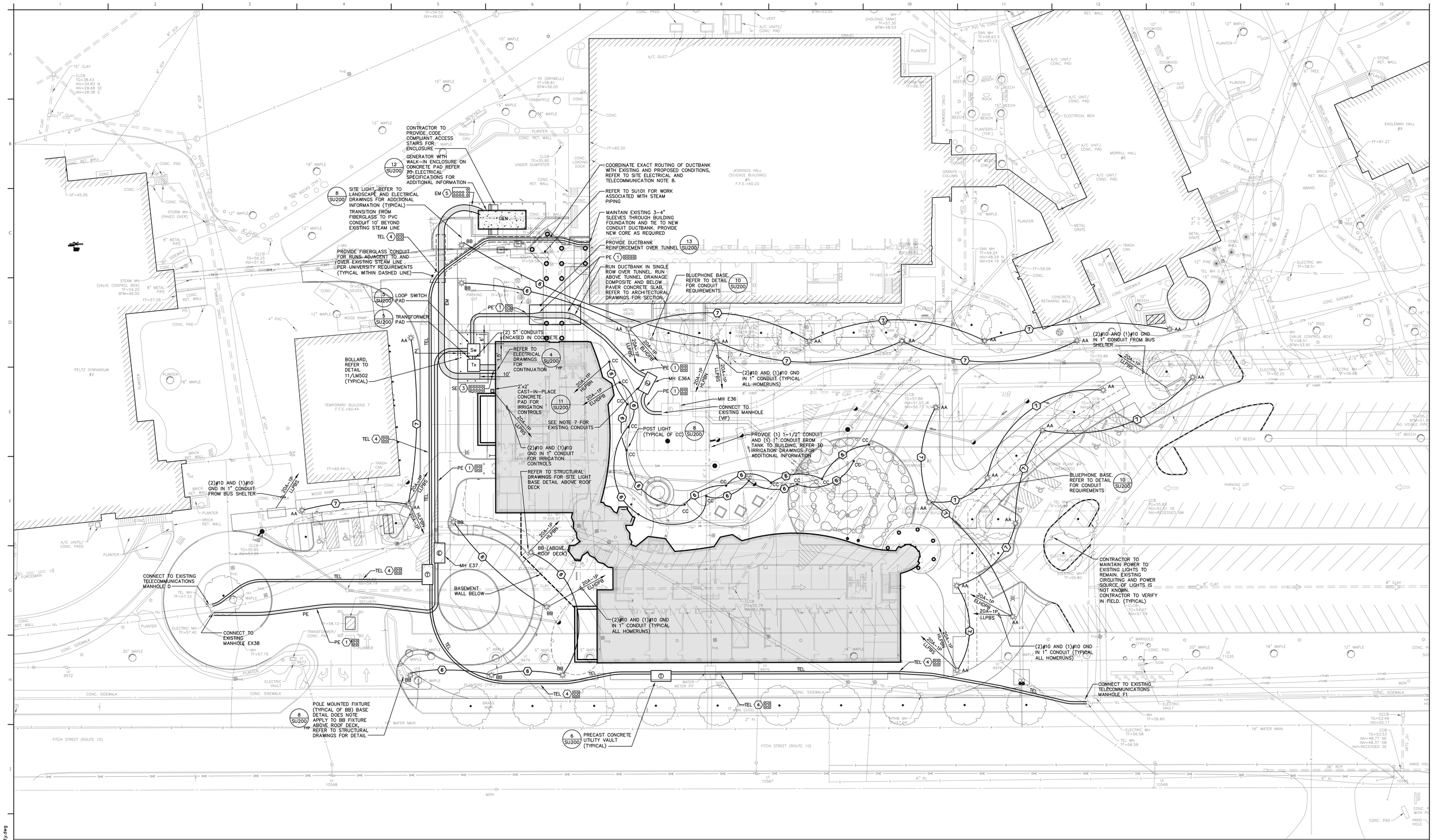
	Expl. No.	Sample No.	Depth (ft.)	LL	PL	PI	Water Content (%)	Cc	Cu
●	B11-OW	S9	35.0-37.0				25.8	1.21	2.27
⊠	B6	S11	45.0-47.0				17.7	1.22	4.05
▲	B8	S3	5.0-7.0				4.5	1.23	5.98

Sample Description
- ● Brown medium to fine SAND (Natural Soils)
- ⊠ Brown medium to fine SAND, trace silt (Natural Soils)
- ▲ Brown medium to fine SAND, little fine gravel, trace coarse sand, trace silt (Natural Soils)

Remarks:

HALEY & ALDRICH, Rocky Hill, Connecticut — Proposed Laboratory and Classroom Building, Southern Connecticut State University, New Haven, Connecticut — GRAIN SIZE DISTRIBUTION — Date: 7/12/2010 — File No.: 36451-000

drawing title	TEST PIT LOGS/GROUND WATER MONITORING REPORT
REVISIONS: mark / date / description	11-21-2012 Bid Documents
	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES
volume	1 of 2
DRAWING PREPARED BY	MILONE & MACBROOM, Engineering, Landscape Architecture and Environmental Science, 99 Realty Drive, Cheshire, Connecticut 06410, (203) 271-1773 Fax (203) 272-9733, www.miloneandmacbroom.com
date	11-12-2012
scale	NTS
project	SCSU ACADEMIC LABORATORY BUILDING
drawn by	CJR
approved by	TD
CAD no.	1300
project no.	BI-RS-283
drawing no.	C108



GENERAL NOTES

1. BASE INFORMATION IS TAKEN FROM AVAILABLE SURVEY PLANS PREPARED BY MILONE AND MACBROOM FOR THIS PROJECT. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF NEW WORK. BVH INTEGRATED SERVICES ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE SURVEY NOR CHANGES TO THE WORK DUE TO ERROR IN THE SURVEY.
2. PRIOR TO COMMENCING CONSTRUCTION NOTIFY "CALL BEFORE YOU DIG" (1-800-922-4455) FOR FIELD LOCATION AND MARKING OF SUBSURFACE UTILITIES AT LEAST 48 HOURS IN ADVANCE BUT NO MORE THAN 30 DAYS. THE CONTRACTOR SHALL ALSO OBTAIN THE SERVICES OF A QUALIFIED UNDERGROUND UTILITY LOCATION FIRM, AT NO COST TO THE OWNER, TO VERIFY LOCATIONS OF UNDERGROUND UTILITIES NOT IDENTIFIED BY "CALL BEFORE YOU DIG".
3. ALL CONSTRUCTION METHODS SHALL CONFORM TO THE DRAWINGS AND SPECIFICATIONS AND ANY REFERENCED STANDARDS SUCH AS BUT NOT LIMITED TO THE FOLLOWING:
   A. THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION (FORM 816, AS AMENDED).
   B. MATERIAL AND INSTALLATION SPECIFICATIONS OF EACH UTILITY COMPANY.
   C. SPECIFIC CITY OF NEW HAVEN REQUIREMENTS.
   D. CSUS SPECIFICATIONS AND REQUIREMENTS.

   ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND SPECIFICATIONS AND REFERENCED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. PROVIDE ALL NECESSARY SURVEY WORK REQUIRED FOR THE CONSTRUCTION STAKE-OUT AND PRODUCTION OF AS-BUILT PLANS. AS-BUILT PLANS SHALL SHOW LOCATION AND ELEVATION OF CONSTRUCTED STRUCTURES, EQUIPMENT, PIPING AND CONDUITS. CONTRACTOR TO PROVIDE RECORD DRAWINGS TO THE OWNER AT THE END OF THE PROJECT. REFER TO GENERAL CONDITIONS OF SPECIFICATIONS FOR REQUIREMENTS.
5. OBTAIN ALL NECESSARY PERMITS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DEVELOP THE CONSTRUCTION SCHEDULE AND PHASING, COORDINATE ALL ACTIVITIES WITH THE STATE OF CONNECTICUT AND THE CITY OF NEW HAVEN AND NOTIFY ADJACENT PROPERTY OWNERS, AS REQUIRED. NOTIFY NECESSARY PARTIES AT LEAST 5 DAYS IN ADVANCE.
7. ALL EXISTING SITE UTILITIES WHICH ARE NOT INDICATED ON PLANS SHALL NOT BE INTERRUPTED FROM CONTINUOUS SERVICE. CONTRACTOR TO NOTIFY ENGINEER OF ANY CONFLICTS OR CONCERNS. EXISTING UTILITIES TO REMAIN ARE TO BE PROTECTED DURING CONSTRUCTION.
8. ESTABLISH AND MAINTAIN AT LEAST TWO BENCHMARKS ON SITE FOR VERTICAL AND HORIZONTAL CONTROL.
9. SAFETY ISSUES & HOURS OF OPERATION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE COORDINATED & APPROVED BY THE OWNER.

NEW SYMBOL LEGEND/ABBREVIATIONS

PE	PRIMARY ELECTRIC (ENCASED IN CONCRETE)
SE	SECONDARY ELECTRIC (ENCASED IN CONCRETE)
TEL	TELECOMMUNICATIONS (ENCASED IN CONCRETE)
XX 1	CONDUIT REFERENCE SYMBOL; SERVICE; CONDUIT ARRANGEMENT
T	TELECOMMUNICATIONS MANHOLE
E	ELECTRIC MANHOLE
SW	LOOP SWITCH
Tx	TRANSFORMER
7 SU100	DETAIL REFERENCE NUMBER; SEE THIS DETAIL DRAWING
EM	EMERGENCY
PE	PRIMARY ELECTRIC
SE	SECONDARY ELECTRIC
TEL	TELECOMMUNICATIONS

CONDUIT SCHEDULE

1. 4-5" CONDUITS ENCASED IN CONCRETE
2. 4-5" CONDUITS ENCASED IN CONCRETE
3. 9-4" CONDUITS AND 1-4" SPARE CONDUIT ENCASED IN CONCRETE
4. 2-4" CONDUITS AND 2-4" SPARE CONDUITS ENCASED IN CONCRETE (PROVIDE (3) 1" INNERDUCT IN (2) OF THE 4" CONDUITS)
5. 8-4" AND 3-3" CONDUITS ENCASED IN CONCRETE. PROVIDE 12" SEPARATION BETWEEN 4" AND 3" CONDUITS
6. (2)#10 & (1)#10 GND IN 1" DIRECT BURIED CONDUIT
7. (2)#10 & (1)#10 GND IN 1" DIRECT BURIED CONDUIT FOR FIXTURE POWER AND (2)#10 & (1)#10 GND IN 1" DIRECT BURIED CONDUIT FOR POLE RECEPTACLE POWER.

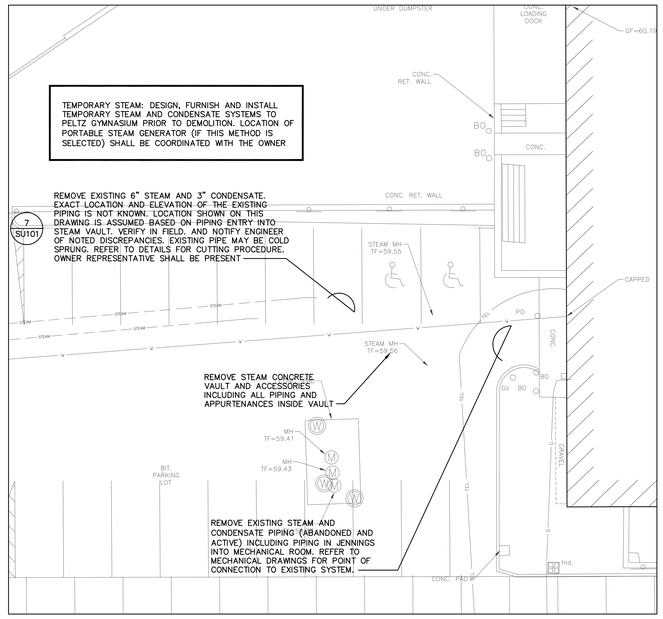
SITE ELECTRICAL AND TELECOMMUNICATIONS NOTES:

1. PROPOSED STORM DRAINAGE, SANITARY SEWER, DOMESTIC WATER, FIRE PROTECTION AND GAS ARE SHOWN FOR REFERENCE ONLY, REFER TO CIVIL DRAWINGS.
2. SITE LIGHTING WIRING ROUTING SHOWN IS SCHEMATIC AND INTENDED TO SHOW CONNECTIVITY OF LIGHT FIXTURES. CONTRACTOR TO VERIFY EXACT ROUTING IN FIELD. ALL SITE DISTURBANCE DUE TO LAYOUT OF SITE LIGHTING WIRING SHALL BE RESTORED.
3. FOR UTILITY TRENCH DETAILS, REFER TO SU200.
4. EXISTING MANHOLES ARE TO BE RESET AS REQUIRED TO MATCH NEW GRADES.
5. FINAL TOP OF FRAME ELEVATIONS FOR NEW UTILITY STRUCTURES MAY NEED TO BE FIELD ADJUSTED TO COORDINATE WITH SITE CONDITIONS AND FINAL GRADING (TYPICAL).
6. REFER TO TELECOMMUNICATIONS DRAWINGS FOR CABLING REQUIREMENTS.
7. RECONFIGURE PRIMARY LOOP TO DEACTIVATE THE DUCTBANK SECTION, THEN CUT INTO EXISTING CONCRETE DUCTBANK AND EXTEND INTO NEW MANHOLE. PRIMARY DUCTBANK WILL THEN BE EXTENDED TO NEW SWITCH.
8. EXACT DEPTHS AND LOCATIONS OF EXISTING UTILITIES IN THIS ARE ARE UNKNOWN. CONTRACTOR SHALL VERIFY LOCATIONS AND DEPTHS PRIOR TO INSTALLATION OF THE DUCTBANK. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN THIS SURVEY AND EXISTING CONDITIONS AT A MINIMUM OF THREE (3) BUSINESS DAYS IN ADVANCE OF SCHEDULED INSTALLATION OF NEW WORK. ANY NEW WORK THAT IS INSTALLED WITHOUT PRIOR VERIFICATION OF EXISTING UTILITIES THAT REQUIRES REMOVAL AND REINSTALLATION SHALL BE PERFORMED AT NO COST TO THE OWNER. MEANS AND METHODS FOR VERIFICATION OF EXISTING UTILITIES TO BE DETERMINED BY THE CONTRACTOR AND COORDINATED WITH THEIR CONSTRUCTION ACTIVITIES.

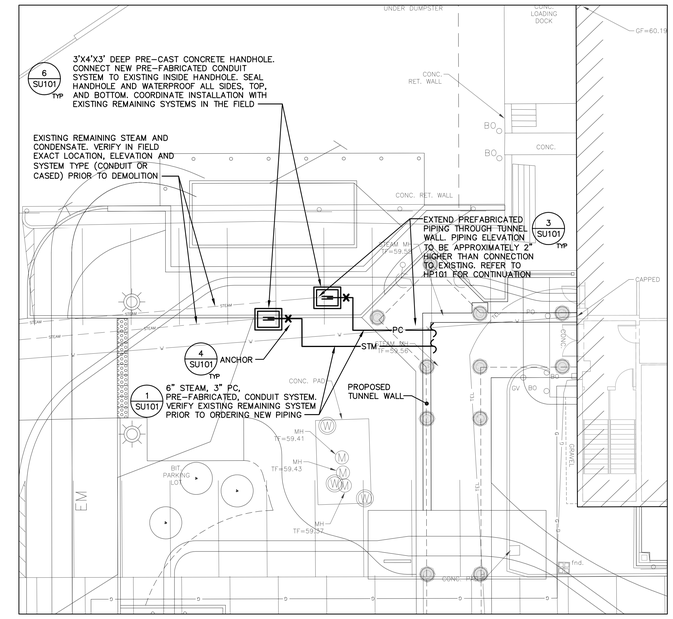
GRAPHIC SCALE
20 0 10 20 40
(IN FEET)
1 inch = 20 ft.

GENERAL NOTES AND SITE ELECTRICAL AND TELECOMMUNICATIONS PLAN	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES	SHEET 1 of 2
DATE / REVISION / DESCRIPTION 12-12-2012 Bid Documents	DRAWN / CHECKED BY: BVH Intergrated Services 50 Griffin Road South Bloomfield, CT 06002 Tel: (860) 286-9171	DATE 11-21-2012 SCALE 1"=20'
	SCSU ACADEMIC AND LABRATORY BUILDING	DRAWN BY DCC DESIGNED BY TSD
	CAD File 1300 / Project Number BI-RS-283	DRAWING NO. SU100

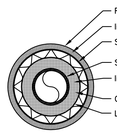
11/16/12 10:44:48 AM W:\2010\2110038 - SCSU Academic Lab Building\DWGS\C\2110038-utility.dwg



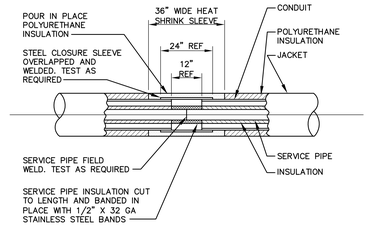
1 SU101 **SITE STEAM AND CONDENSATE - DEMOLITION**
1"=10'



2 SU101 **SITE STEAM AND CONDENSATE - NEW WORK**
1"=10'

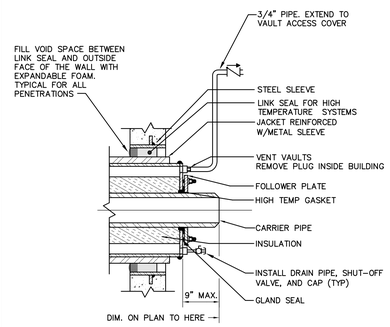


1 SU101 **CONDUIT SYSTEM (STEAM AND CONDENSATE)**
NOT TO SCALE



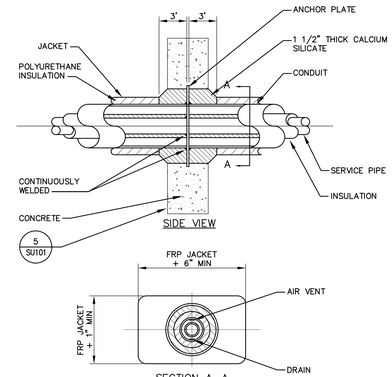
NOTE:
VERIFY IF EXISTING SYSTEM IS CONDUIT TYPE. REMOVE EXISTING INSULATION FROM CONDUIT TO ALLOW INSTALLATION OF FIELD JOINT TO DIMENSION INDICATED.

2 SU101 **CONDUIT FIELD JOINT DETAIL**
NOT TO SCALE

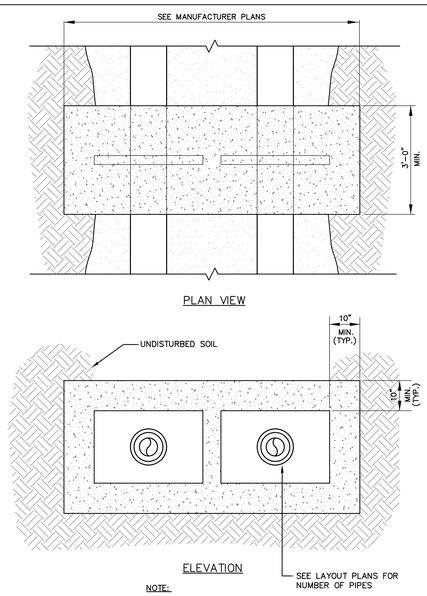


NOTE:
EACH GLAND SEAL DESIGNED BY PIPE MANUFACTURER. INSTALL ON ALL STEAM, COND, PIPING AT EACH BUILDING, VAULT UNLESS NOTED, OTHERWISE ON DRAWINGS.

3 SU101 **STEAM AND CONDENSATE BUILDING AND VAULT WALL PENETRATION DETAIL**
NOT TO SCALE

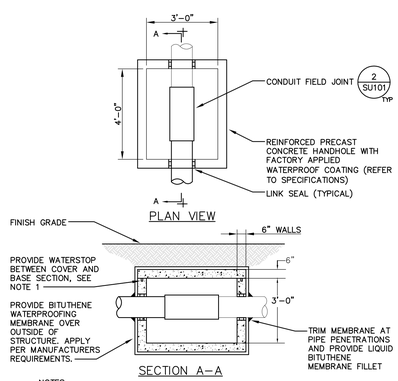


4 SU101 **CONDUIT ANCHOR DETAIL**
NOT TO SCALE



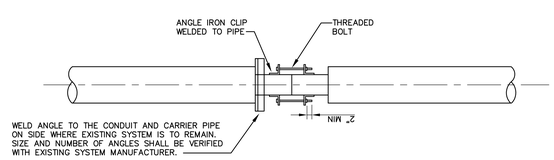
NOTE:
1. ANCHOR SIZE TO BE DESIGNED BY PIPE MANUFACTURER.

5 SU101 **TYPICAL CONDUIT ANCHOR BLOCK**
NOT TO SCALE



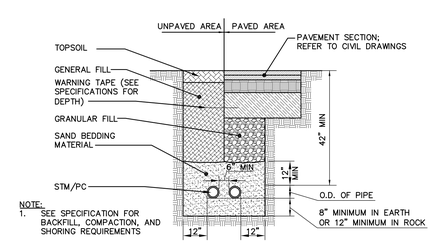
NOTES:
1. WATERSTOP SHALL BE MANUFACTURED RECTANGULAR OR TRAPEZOIDAL STRIP, SWELLABLE CONFORMABLE POLYURETHANE/BUTYL BLENDED RUBBER BASED MATERIAL FREE OF SODIUM BENTONITE, FOR ADHESIVE BONDING TO CONCRETE, 1/2 BY 1 INCH.

6 SU101 **TYPICAL PRECAST CONCRETE HANDHOLE**
NOT TO SCALE



NOTES:
1. INSTALL ANGLE CLIPS AND BOLTS BEFORE CUTTING THE EXISTING PIPE. VERIFY WITH PREFABRICATED PIPE MANUFACTURER REQUIRED SIZES OF ANGLE CLIPS AND BOLTS. INSTALL ANGLE ON THE REMAINING SYSTEM (BASE BID ONLY).
2. CUT EXISTING PIPE. RELEASE TENSION IN THE EXISTING PIPE BY TURNING NUTS.
3. CUTTING OF THE EXISTING PIPING WITHOUT "REVERSE COLD-SPRING" PROCEDURE DESCRIBED ABOVE IS NOT PERMITTED.

7 SU101 **CUTTING OF COLD SPRUNG PIPE**
NOT TO SCALE



NOTE:
1. SEE SPECIFICATION FOR BACKFILL, COMPACTION, AND SHORING REQUIREMENTS

8 SU101 **STEAM AND PUMPED CONDENSATE PIPE TRENCH SECTION**
NOT TO SCALE

NEW SYMBOL LEGEND/ABBREVIATIONS

STM	STEAM
PC	PUMPED CONDENSATE
7 SU101	DETAIL REFERENCE NUMBER SEE THIS DETAIL DRAWING

project title: SITE STEAM AND CONDENSATE PLAN		STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES	volume 1 of 2
REVISIONS			
mark / date	description	DRAWN / CHECKED BY: BVH Intergrated Services 50 Griffin Road South Bloomfield, CT 06002 Tel: (860) 286-9171	date 11-21-2012
12-21-2012	Bid Documents		scale 1"=20'
		SCSU ACADEMIC AND LABRATORY BUILDING	drawn by DCC
			reviewed by TSD
		CAD file 1300 / project no. BI-RS-283	drawing no. SU101

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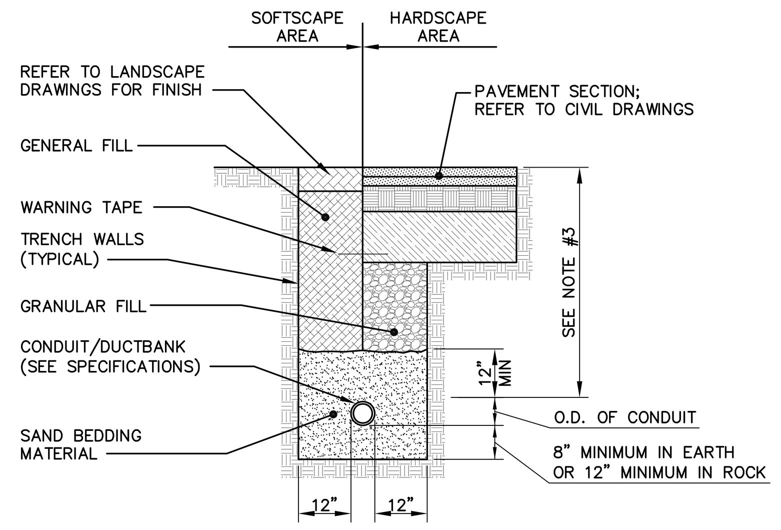
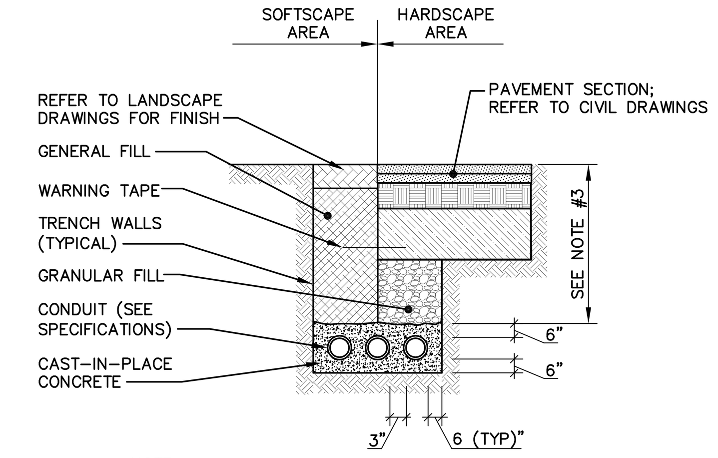


NOTES:

1. SEE SITE UTILITY PLANS FOR NUMBER OF CONDUITS IN EACH DUCTBANK.
2. SEE SPECIFICATIONS FOR CLEARANCES, SPACER DETAILS, BACKFILL, AND WARNING TAPE INFORMATION.
3. INSTALL TOP OF DUCT BANK A MINIMUM OF 24 INCHES AND A MAXIMUM OF 30 INCHES BELOW FINISHED GRADE, UNLESS OTHERWISE INDICATED. ENGINEER MUST BE NOTIFIED PRIOR TO CONSTRUCTION, WHEN DEPTH OF BURIAL TO TOP OF DUCTBANK WILL BE GREATER THAN 30 INCHES FOR 25% OR MORE OF THE FEEDER RUN.

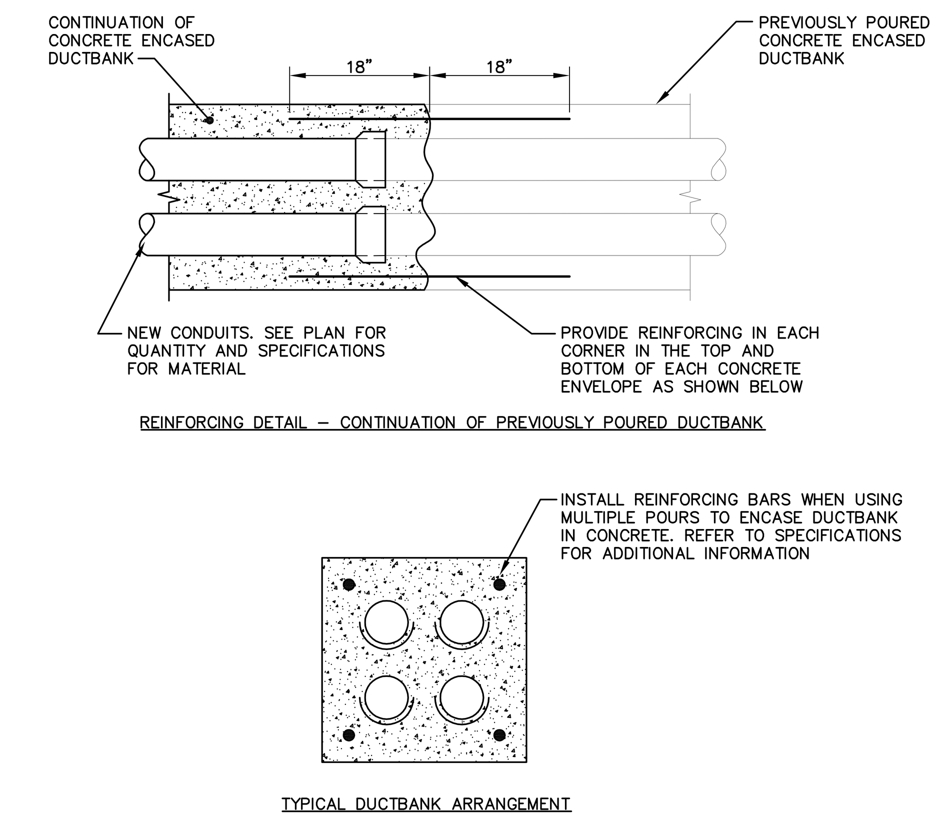
1/SU200 TYPICAL DIRECT BURY CONDUIT TRENCH SECTION
NOT TO SCALE



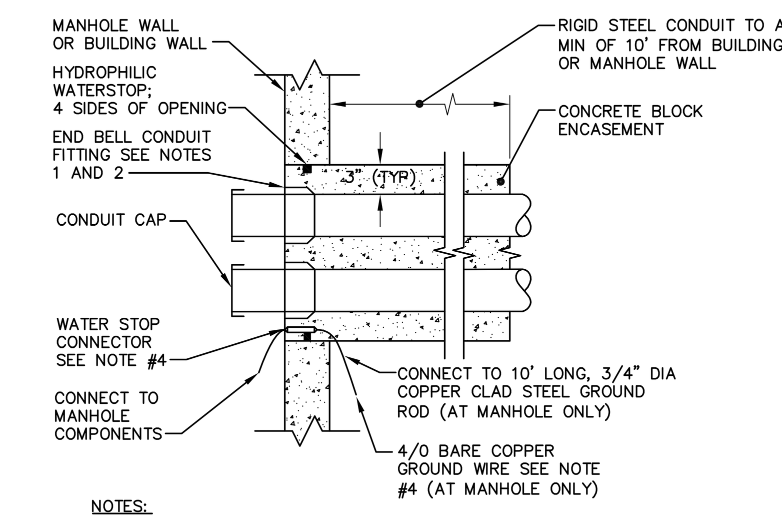
NOTE:

1. SEE SITE UTILITY PLANS FOR NUMBER OF CONDUITS IN EACH DUCTBANK.
2. SEE SPECIFICATIONS FOR CLEARANCES, SPACER DETAILS, BACKFILL, AND WARNING TAPE INFORMATION.
3. INSTALL TOP OF DUCT BANK A MINIMUM OF 24 INCHES AND A MAXIMUM OF 30 INCHES BELOW FINISHED GRADE, UNLESS OTHERWISE INDICATED. ENGINEER MUST BE NOTIFIED PRIOR TO CONSTRUCTION, WHEN DEPTH OF BURIAL TO TOP OF DUCTBANK WILL BE GREATER THAN 30 INCHES FOR 25% OR MORE OF THE FEEDER RUN.

2/SU200 TYPICAL CONCRETE ENCASED DUCTBANK TRENCH SECTION
NOT TO SCALE



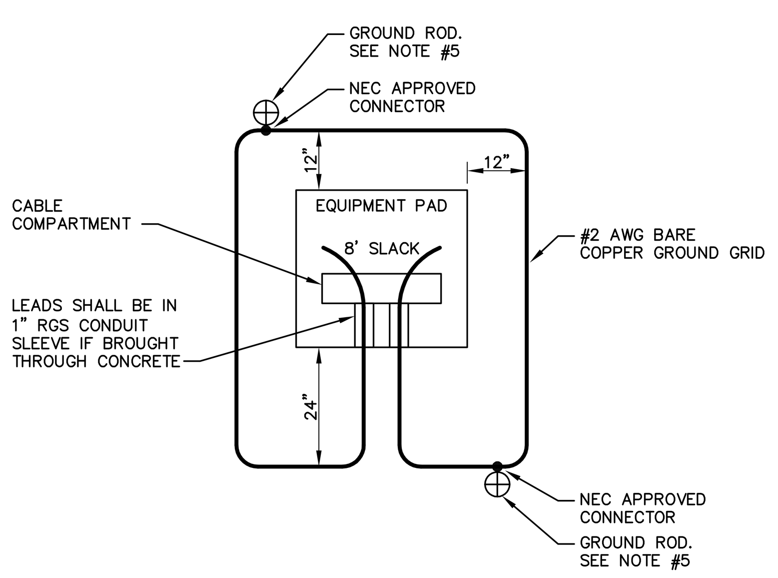
3/SU200 TYPICAL DUCTBANK REINFORCEMENT DETAIL - CONTINUATION OF PREVIOUSLY POURED DUCTBANK
NOT TO SCALE



NOTES:

1. END BELLS SHALL BE INSTALLED ON ALL CONDUIT TO PREVENT CABLE DAMAGE DUE TO ABRASION DUE TO MOVEMENT FROM THERMAL EXPANSION.
2. END BELLS SHALL BE INSTALLED WITH MANUFACTURER'S RECOMMENDED PVC CEMENT.
3. END BELLS SHALL BE INSTALLED FLUSH WITH THE INSIDE FACE OF THE KNOCKOUT. THE CONDUIT WINDOW SHALL BE FINISHED WITH A CONCRETE SURFACE FLUSH WITH THE END BELL CONDUIT FITTINGS.
4. 4/0 AWG BARE COPPER GROUND. THE 4/0 AWG GROUND WIRE SHALL BE SEALED USING A WATERPROOF CONNECTOR PLACED WITHIN THE CONCRETE WINDOW OPENING OR THROUGH SEPARATE CORE.

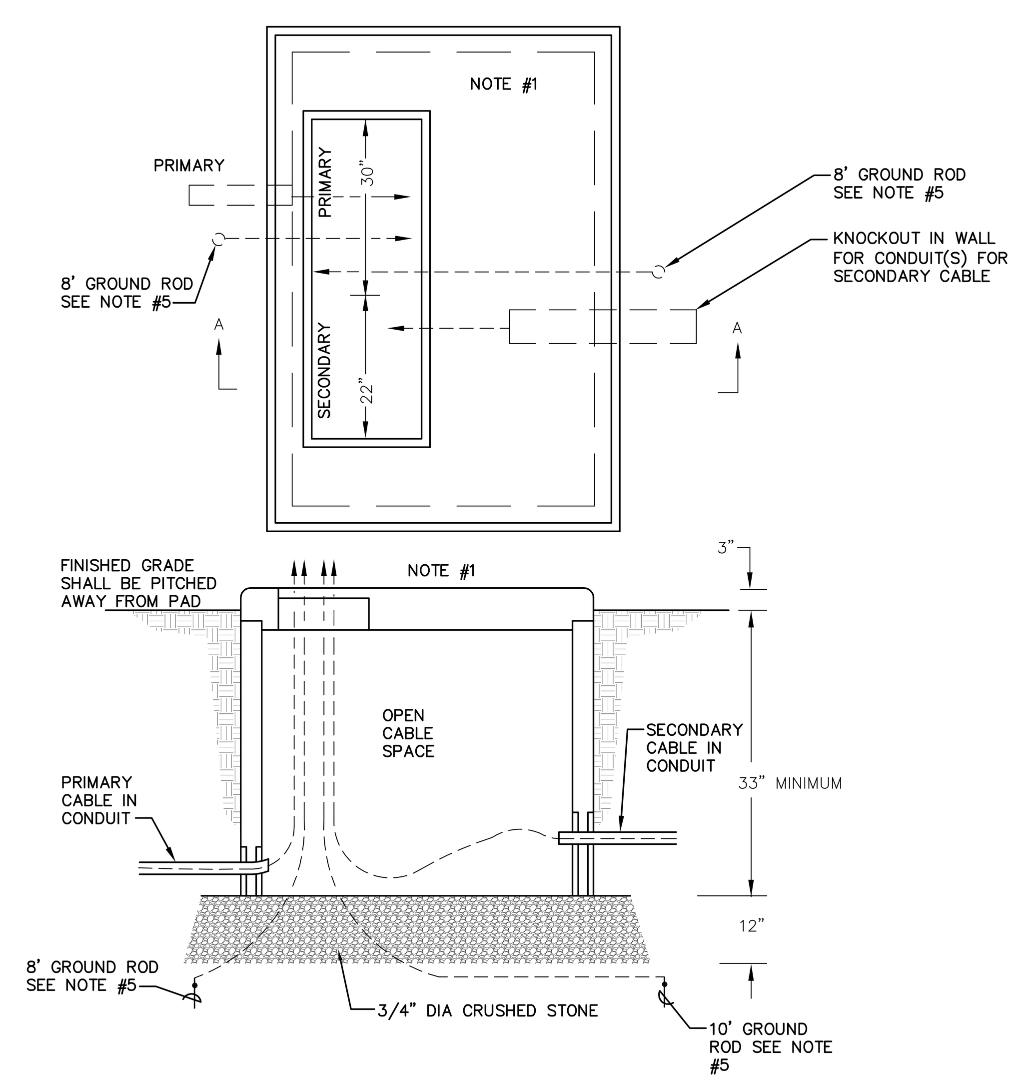
4/SU200 DUCTBANK PENETRATION DETAIL FOR UTILITY MANHOLE AND BUILDING WALL
NOT TO SCALE



TYPICAL PAD-MOUNTED EQUIPMENT GROUNDING GRID

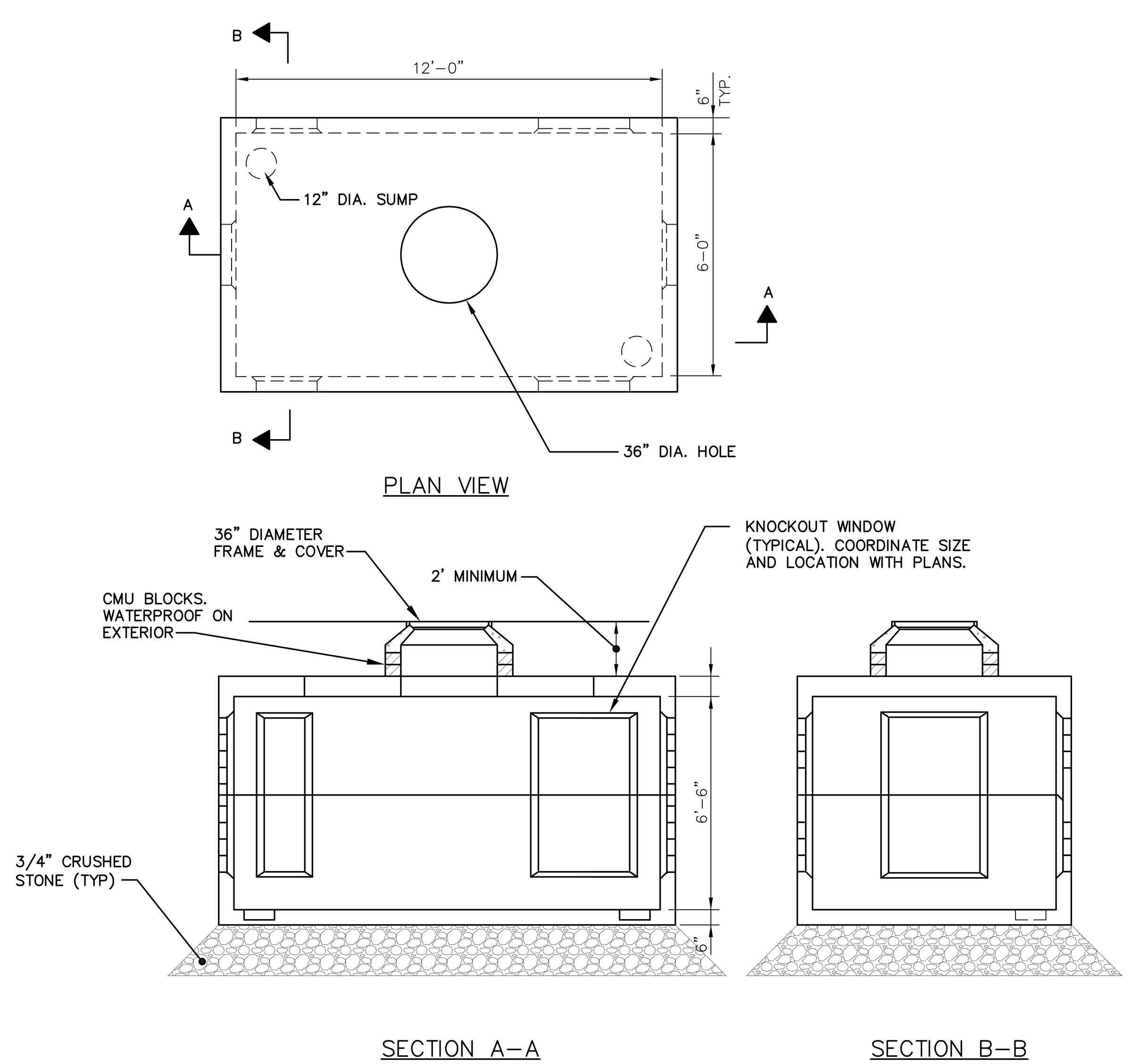
GROUNDING GRID AND TRANSFORMER GENERAL NOTES:

1. GROUNDING GRID– INSTALL GRID A MINIMUM OF 12" BELOW GRADE
2. TRANSFORMER PAD – PROVIDE PAD 6" LARGER IN BOTH LENGTH AND WIDTH THAN EQUIPMENT. COORDINATE WITH MANUFACTURER EXACT DIMENSIONS OF VAULT. COORDINATE OPENINGS WITH MANUFACTURER.
3. PRIMARY CABLE – INSTALL CABLES IN CONDUIT A MINIMUM OF 30" BELOW GRADE. CABLES SHALL BE LOOPED IN CABLE PIT BEFORE MAKING CONNECTIONS.
4. SECONDARY CABLE – LEAVE SLACK FOR FUTURE RECONNECTION TO TRANSFORMERS WITH HIGHER SECONDARY TERMINALS. CUSTOMER CABLE(S) SHALL ENTER FROM THE REAR OF THE PAD AND SHALL BE CONFINED TO THE AREA DEFINED AS THE "CUSTOMER CABLE AREA".
5. COPPER–CLAD STEEL GROUND RODS – INSTALL IN TRENCH AND CONNECT 4/0 BARE COPPER CONDUCTORS FROM RODS THROUGH PAD OPENING AND EXTENDING 5 FEET ABOVE PAD. MINIMUM SEPARATION OF GROUND RODS IS 10 FEET. REFER TO GROUNDING GRID, THIS DETAIL.
6. CONSULT THE UTILITY COMPANY FOR MORE SPECIFIC LOCATION AND MECHANICAL PROTECTION REQUIREMENTS, GROUNDING AND CONNECTIONS.



(SECTION–A–A)

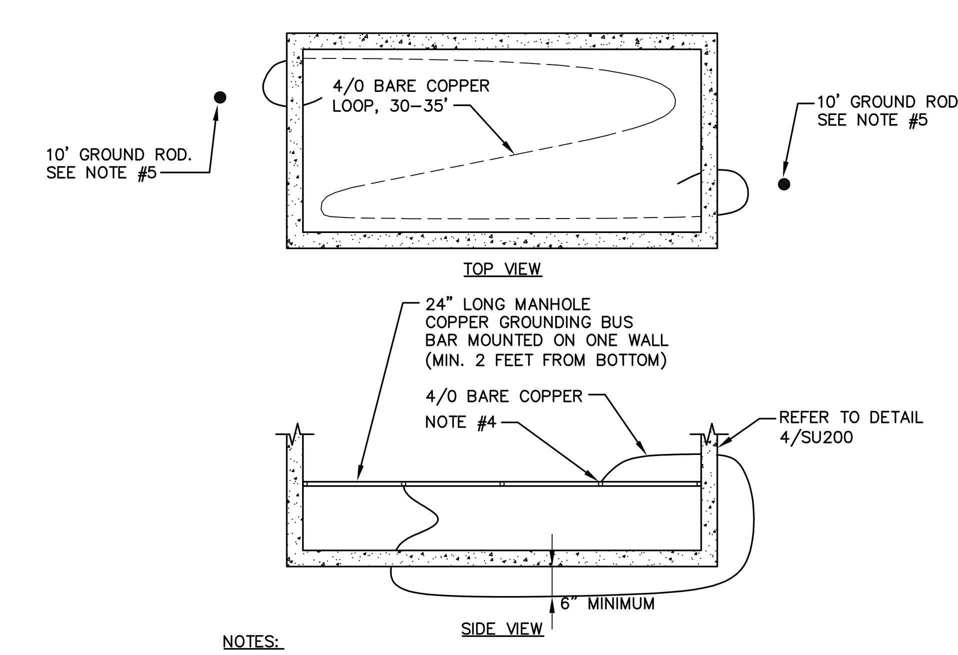
5/SU200 CONCRETE UTILITY PAD
NOT TO SCALE



NOTES:

1. MANHOLE SHALL BE DESIGNED FOR THE FOLLOWING LOADS:
   a. THE ROOF SHALL BE DESIGNED FOR AASHTO HS20–1983 DIRECT WHEEL LOAD.
   b. THE WALLS SHALL BE DESIGNED FOR THE SUMMATION OF THE FOLLOWING:
      1. SOIL PRESSURE OF NOT LESS THAN AN EQUIVALENT FLUID PRESSURE OF 40 PCF.
      2. HYDROSTATIC PRESSURE OF 5 FEET MEASURED FROM THE BASE OF THE HANDHOLE.
      3. A SURCHARGE OF 2.5 FEET OF SOIL WEIGHING 120 PCF.
   c. THE FLOOR SHALL BE DESIGNED TO RESIST THE HYDROSTATIC PRESSURE RESULTING FROM THE 5 FOOT HEAD CALLED FOR IN 1.b.2 ABOVE.
2. CONCRETE AND CONCRETE DESIGN SHALL BE IN ACCORDANCE WITH ACI LATEST EDITION.
3. CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 4000 PSI.
4. STEEL REINFORCING BARS SHALL CONFORM TO ASTM LATEST EDITION GRADE 60. WELDED WIRE MESH SHALL CONFORM TO ASTM A185–1985E1 OR LATEST EDITION.
5. PULLING EYEBOLTS AND ZINC ALLOY INSERTS TO BE INSTALLED AND COORDINATED WITH OWNER AND UTILITY COMPANIES HAVING JURISDICTION.
6. OPENINGS AND KNOCKOUTS SHALL BE CLEAR OF REINFORCEMENT.
7. CONSTRUCTION JOINTS SHALL BE SEALED WITH ASPHALT CEMENT OR EQUIVALENT.
8. MANUFACTURER'S IDENTIFICATION AND MONTH/YEAR WHEN MANUFACTURED SHALL BE LEGIBLY MARKED IN/ON CONCRETE IN THE SIDE OF THE 38" OPENING.
9. SEAL HORIZONTAL JOINT BETWEEN MANHOLE SECTIONS WITH 1" DIAMETER BUTYL RUBBER.
10. KNOCKOUTS SHOWN ARE TYPICAL. NOTIFY MANUFACTURER IF DIFFERENT SIZES OR LOCATIONS ARE REQUIRED.
11. PROVIDE GROUNDING CONDUCTOR EXITING MANHOLE PER DETAIL 4/SU200 AND 7/SU200.

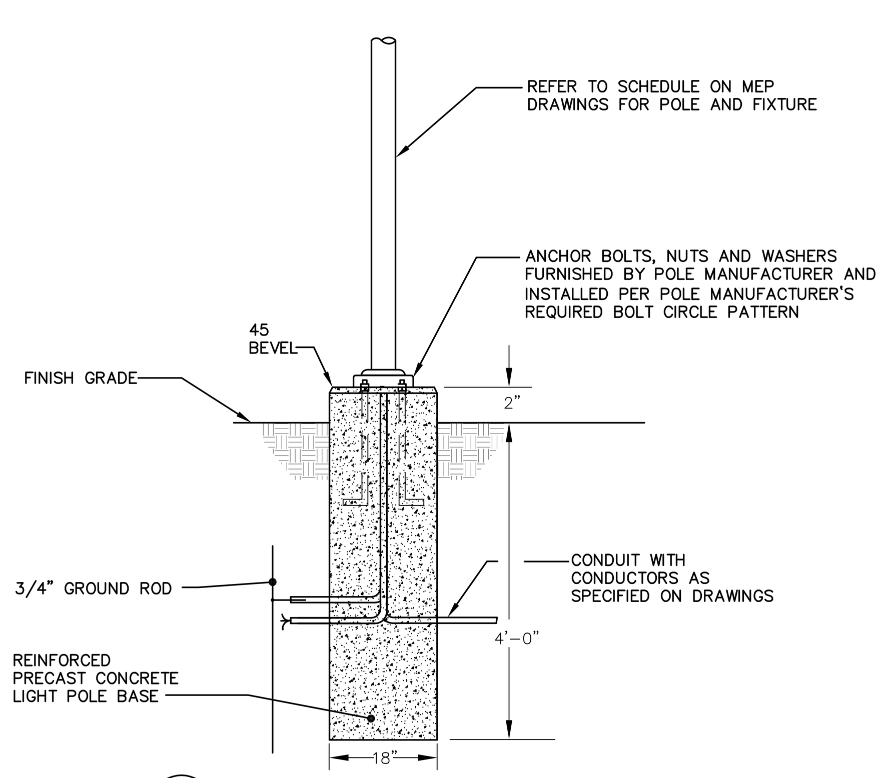
6/SU200 6'-0" X 12'-0" X 6'-6" INSIDE PRE-CAST REINFORCED CONCRETE MANHOLE ELECTRIC OR TELECOMMUNICATIONS
NOT TO SCALE



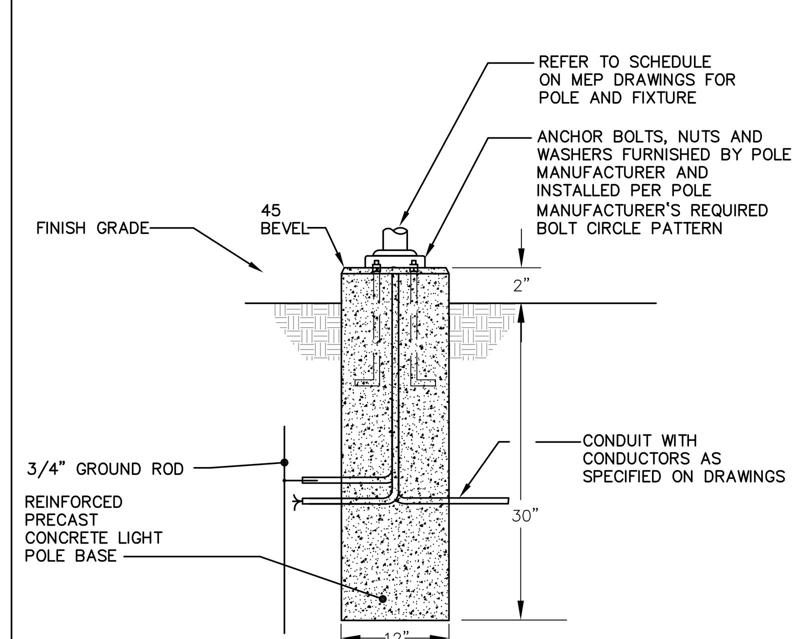
NOTES:

1. INSTALL 4/0 BARE COPPER WIRE, 30 TO 35 FEET LONG, A MINIMUM OF 6 INCHES BELOW FLOOR.
2. INSTALL ALL LOOP WIRES OR GROUNDS TO 25 OHMS OR LESS.
3. CONNECT GROUNDS TO 4/0 COPPER BUS IN MANHOLE OR VAULT.
4. CONNECT GROUND RING TO BUS BAR.
5. COPPER–CLAD STEEL GROUND ROD– INSTALL IN TRENCH AND CONNECT 4/0 BARE COPPER CONDUCTORS FROM RODS THROUGH MANHOLE OR VAULT. MINIMUM SEPARATION OF GROUND RODS IS 10 FEET.

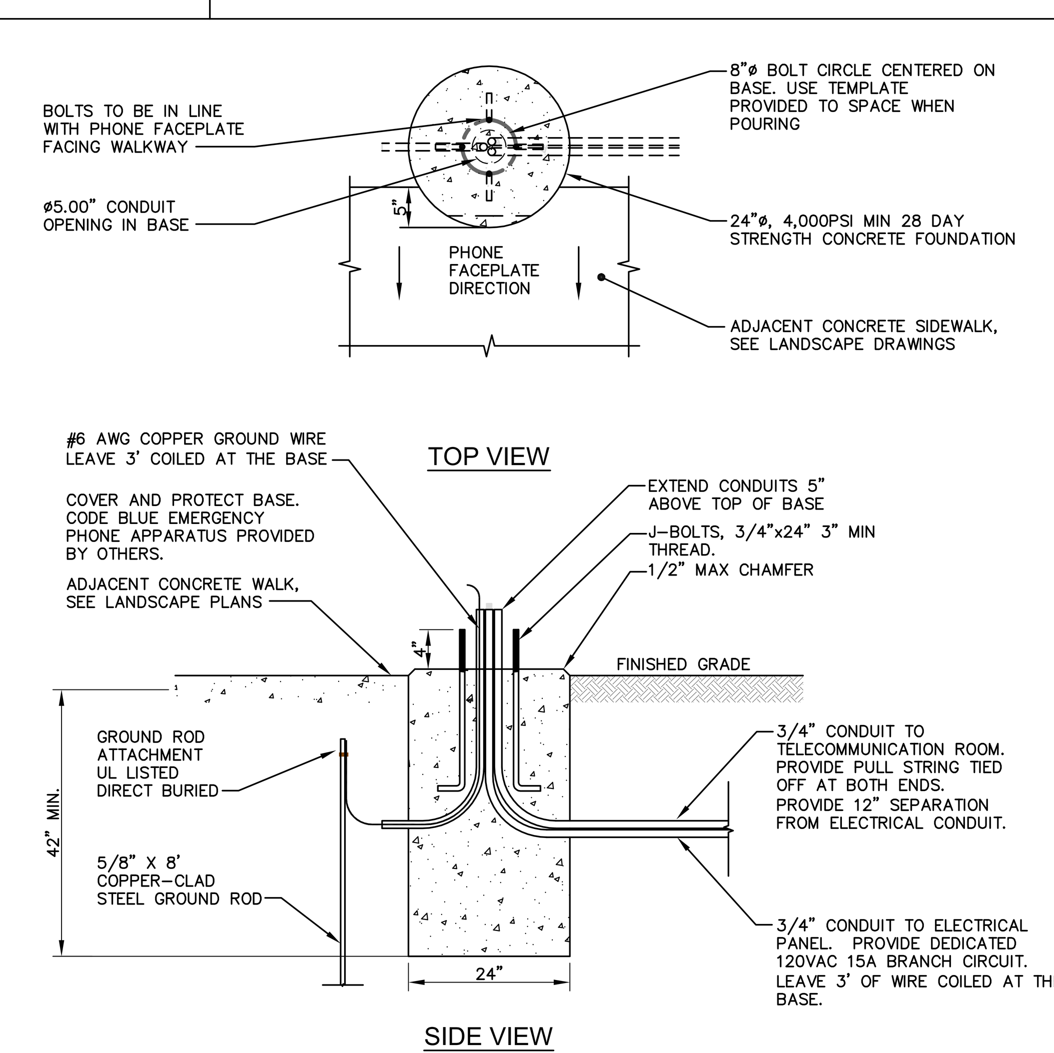
7/SU200 CONDUIT SYSTEM - GROUNDING BELOW GRADE VAULTS
NOT TO SCALE



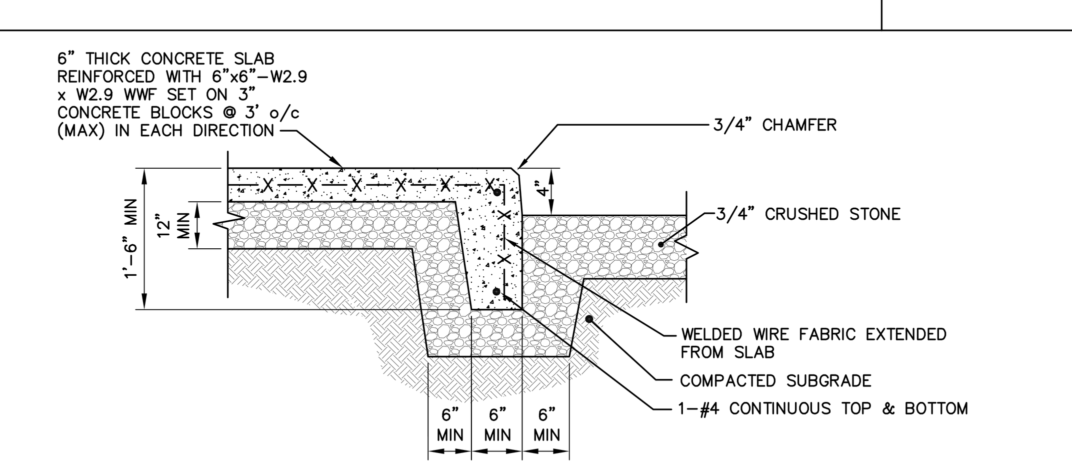
8/SU200 SITE LIGHTING FIXTURE BASE DETAIL
NOT TO SCALE



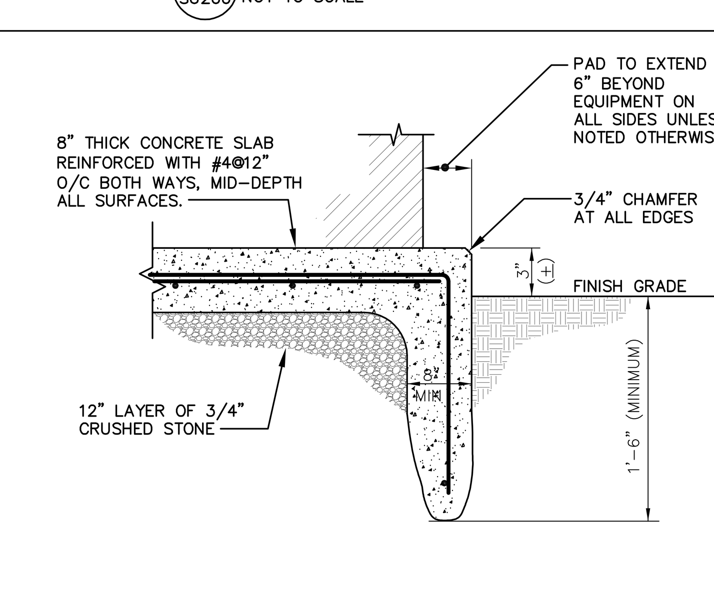
9/SU200 PATHWAY LIGHT BASE DETAIL
NOT TO SCALE



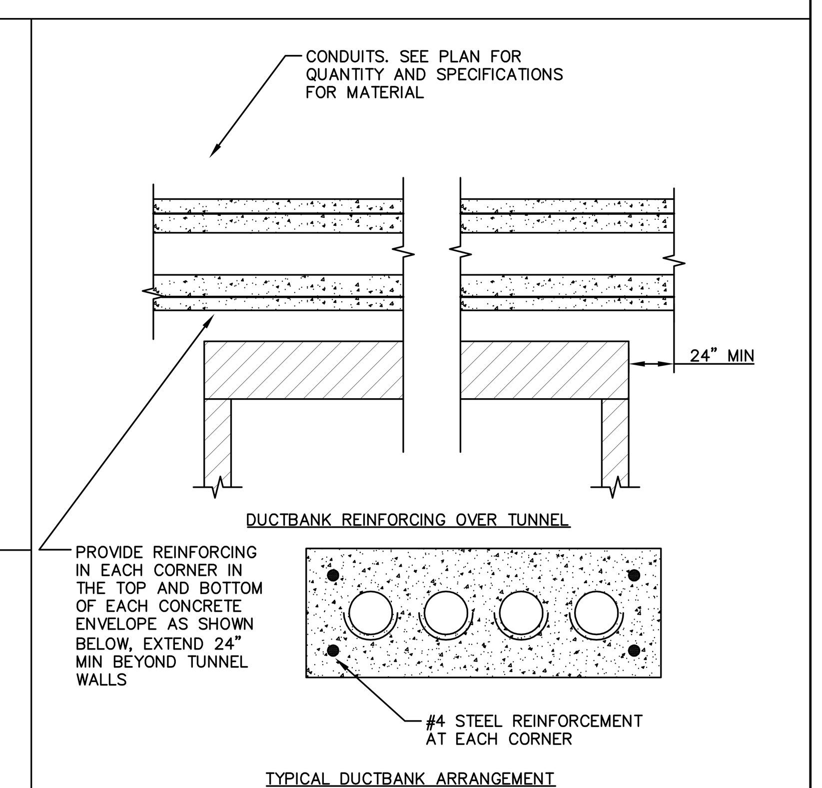
10/SU200 EMERGENCY "BLUE PHONE" BASE DETAIL
NOT TO SCALE



11/SU200 GAS METER PAD
NOT TO SCALE



12/SU200 TYPICAL EQUIPMENT PAD DETAIL
NOT TO SCALE



13/SU200 DUCTBANK REINFORCEMENT OVER TUNNEL DETAIL
NOT TO SCALE

drawing title: SITE ELECTRICAL AND TELECOMMUNICATIONS DETAILS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
BVH
Intergrated Services
50 Griffin Road South Bloomfield, CT 06002
Tel: (860) 286-9171

project: SCSU ACADEMIC AND LABORATORY BUILDING

volume: 1 of 2
date: 11-21-2012
scale: AS NOTED
drawn by: DCC
approved by: TSD
drawing no.: SU200
CAD no.: 1300
project no.: BI-RS-283

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JENNINGS HALL

MORRILL HALL

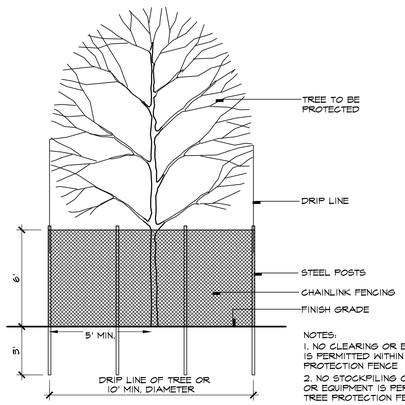
ENGLEMAN HALL

TEMPORARY BUILDING 7

REMOVE PIPE RAILING
REMOVE CONCRETE WALL
REMOVE PLANTS
REMOVE LAWN AND TOPSOIL
TREE PROTECTION FENCE (1 / LD-100)
SAW CUT BITUMINOUS PAVEMENT (TYP)
PROJECT LIMIT LINE
REMOVE BITUMINOUS CURB
REMOVE LAWN AND TOPSOIL
REMOVE CONCRETE CURB
REMOVE CONCRETE DUMPSTER PAD AND BASE
TREE PROTECTION FENCE (1 / LD-100)
REMOVE CONCRETE WALK
CONSTRUCTION LIMIT LINE
REMOVE LAWN AND TOPSOIL
REMOVE BITUMINOUS CURB
REMOVE CONCRETE WALK TO NEAREST CONSTRUCTION JOINT
TREE PROTECTION FENCE AROUND SIGN AND PLANTING (1 / LD-100)
PROJECT LIMIT LINE
RELOCATE BUS SHELTER
REMOVE CONCRETE WALK TO NEAREST CONSTRUCTION JOINT
TREE PROTECTION FENCE (1 / LD-100)
REMOVE LAWN AND TOPSOIL
REMOVE CONCRETE WALK AND BASE
REMOVE CONCRETE CURB
SAW CUT BITUMINOUS PAVEMENT (TYP)
RELOCATE BUS SHELTER
REMOVE BITUMINOUS CURB
REMOVE CONCRETE WALK TO NEAREST CONSTRUCTION JOINT
REMOVE GRANITE CURB
REMOVE BITUMINOUS CURB
REMOVE TIMBER GUIDE RAIL
REMOVE LAWN AND TOPSOIL
REMOVE BITUMINOUS CURB
REMOVE LAWN AND TOPSOIL
REMOVE BITUMINOUS CURB
REMOVE LAWN AND TOPSOIL
REMOVE LAWN AND TOPSOIL
REMOVE BITUMINOUS CURB
TREE PROTECTION FENCE (1 / LD-100)
SAW CUT BITUMINOUS PAVEMENT (TYP)
PROJECT LIMIT LINE
REMOVE LAWN AND TOPSOIL
REMOVE BITUMINOUS CURB
SAW CUT BITUMINOUS PAVEMENT (TYP)
SAW CUT BITUMINOUS PAVEMENT (TYP)
PROJECT LIMIT LINE
REMOVE AND REINSTALL GRANITE CURB
REMOVE GRANITE CURB
REMOVE BITUMINOUS CURB
REMOVE TIMBER GUIDE RAIL
REMOVE LAWN AND TOPSOIL
REMOVE LAWN AND TOPSOIL
SAW CUT BITUMINOUS PAVEMENT (TYP)
EXISTING GRANITE CURB TO REMAIN THIS SIDE OF ENTRY DRIVE
REMOVE PLANTS
TREE PROTECTION FENCE (1 / LD-100)
PROJECT SIGN FINAL LOCATION TO BE DETERMINED BY CONSTRUCTION MANAGER
SAW CUT BITUMINOUS PAVEMENT (TYP)
REMOVE AND REINSTALL CAMPUS SIGN
REMOVE LAWN AND TOPSOIL
REMOVE CONCRETE WALK AND BASE
EXISTING CURB TO REMAIN
CONSTRUCTION LIMIT LINE
PROJECT LIMIT LINE
REMOVE CONCRETE WALK TO NEAREST CONSTRUCTION JOINT

LEGEND

- CONSTRUCTION LIMIT LINE
- BITUMINOUS PAVEMENT AND BASE TO BE REMOVED
- LAWN/TOPSOIL TO BE REMOVED
- CONCRETE PAVEMENT AND BASE TO BE REMOVED
- TREE PROTECTION FENCE
- TREE TO BE REMOVED
- TIMBER GUIDE RAIL TO BE REMOVED
- SAW CUT PAVEMENT



NOTES:
1. NO CLEARING OR EARTHWORK IS PERMITTED WITHIN TREE PROTECTION FENCE
2. NO STOCKPILING OF MATERIALS OR EQUIPMENT IS PERMITTED WITHIN TREE PROTECTION FENCE

1 **Tree Protection Fence**
Scale: 1/4" = 1'

Y:\2007028\Main\2270s06a.dwg

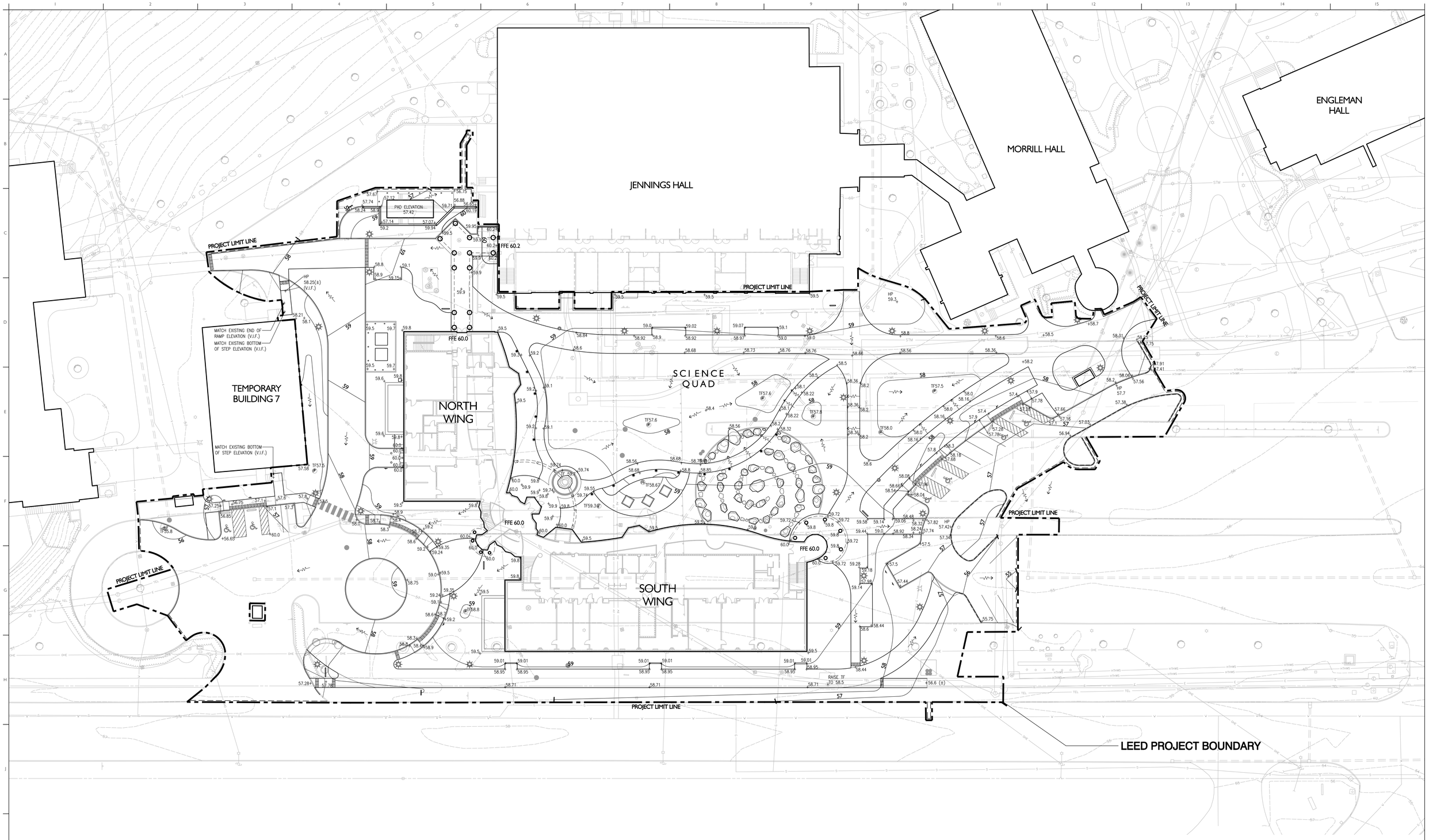
NOTES

SITE PREPARATION & DEMOLITION

1. BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A SURVEY PREPARED BY MILONE & MACBROOM INC., 99 REALTY DRIVE, CHESHIRE, CT 06410, (203) 271–1773.
2. CONTACT "CALL BEFORE YOU DIG" AT LEAST 2 (TWO) WORKING DAYS PRIOR TO STARTING CONSTRUCTION. CONTRACTOR TO COORDINATE ACTIVITIES WITH INDIVIDUAL UTILITY COMPANY REPRESENTATIVES.
3. THE CONTRACTOR SHALL CONTACT THE CIVIL ENGINEER SHOULD THERE BE ANY CONFLICT BETWEEN EXISTING UTILITIES AND PROPOSED CONSTRUCTION.
4. ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT.
5. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS.
6. CONFIRM LIMITS OF DEMOLITION PRIOR TO EXECUTING WORK.
7. PERFORM ALL DEMOLITION ACTIVITIES (I.E. REMOVAL OF PAVEMENTS, CURBING, SIGNAGE, VEGETATION, ETC.) NECESSARY FOR THE CONSTRUCTION OF THE IMPROVEMENTS SHOWN.
8. REMOVE MISCELLANEOUS SIGNAGE WITHIN PROJECT AREA AND RETURN TO THE UNIVERSITY.
9. REMOVE LIGHTING FIXTURES AND POLES WITHIN PROJECT AREA AND RETURN TO THE UNIVERSITY.
10. TREES TO REMAIN SHALL BE PROTECTED WITH TREE PROTECTION FENCING DURING THE CONSTRUCTION PERIOD. REMOVE ALL TREE PROTECTION FENCING FROM SITE AT END OF CONSTRUCTION.
11. REFER TO CIVIL DRAWINGS FOR UTILITY AND DRAINAGE DEMOLITION INFORMATION.
12. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL AND UTILITY DEMOLITION INFORMATION.
13. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL DEMOLITION INFORMATION.

0 10 20 40'
SCALE: 1" = 20' - 0"

LANDSCAPE PREPARATION/ DEMOLITION PLAN	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES	1 of 2
REVISIONS: DATE / DESCRIPTION: 11-21-2012 BID DOCUMENTS	DRAWING CONCEPTS BY: Richter & Cegan Inc. Avon Park North P.O. Box 567 Avon, Connecticut 06001 (860) 678-0649	11-21-2012
		1" = 20' - 0"
	PROJECT: SCSU NEW ACADEMIC LABORATORY BUILDING	DRAWN BY: RSC/JPT
		CHECKED BY: MAC
	CAD NO.: SD0026F0.DWG / PROJECT NO.: BI-RS-283	DRAWING NO.: LD-100



LEGEND

48	CONTOUR
	DIRECTION OF SURFACE RUNOFF
	ACCESSIBLE PARKING SPACE
	YARD DRAIN
	MANHOLE
V.I.F.	VERIFY IN FIELD

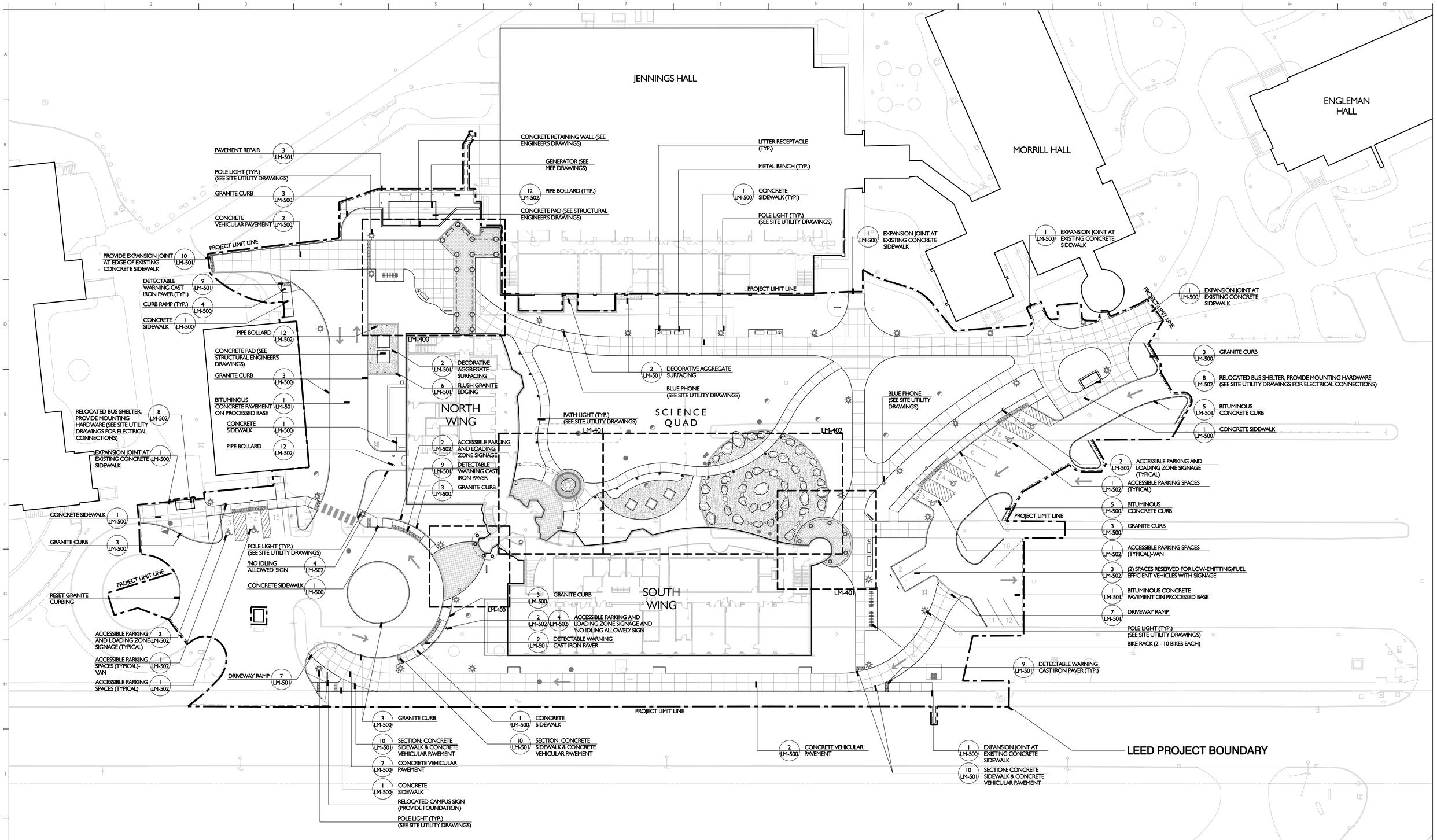
NOTES

SITE GRADING

1. EXISTING ELEVATIONS GIVEN FOR GRADING ARE BASED ON THE BOUNDARY AND TOPOGRAPHIC SURVEY PREPARED BY MILONE & MACBROOM INC. SEE THE SITE SURVEY (EXISTING CONDITIONS) SHEET FOR BENCHMARK INFORMATION AND ELEVATIONS.
2. ANY EXISTING STRUCTURES, PAVEMENT, CURBING, UTILITIES, OR LAWN AREAS TO REMAIN WHICH ARE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ANY EXCAVATION SAFEGUARDS, NECESSARY BARRICADES, FLAGMEN, ETC. FOR TRAFFIC CONTROL AND SITE SAFETY. ALL WORK SHALL BE DONE IN ACCORDANCE WITH OSHA REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH OSHA REQUIREMENTS.
4. WHEN PREPARING THE EXISTING SITE FOR THE PROPOSED DEVELOPMENT, ALL MATERIALS REMOVED SHALL BE DISPOSED OF IN CONFORMANCE WITH ALL GOVERNING AGENCIES.
5. REMOVE STUMPS AND BRUSH FROM SITE. DO NOT BURY STUMPS ON SITE.
6. EARTH SLOPES SHALL BE NO STEEPER THAN 3:1 (HORIZ:VERT.).
7. AFTER THE AREAS TO BE TOPSOILED HAVE BEEN BROUGHT TO GRADE, THE SUBGRADE SHALL BE LOOSENED BY SCARIFYING TO A DEPTH OF 4" TO ENSURE BONDING OF THE TOPSOIL AND SUBSOIL.
8. FILL OR PLANTING SOIL SHALL NOT BE PLACED NOR COMPACTED WHILE IN A FROZEN OR MUDDY CONDITION OR WHILE SUBGRADE IS FROZEN.
9. SIDEWALK CROSS PITCH SHALL BE 2% MAXIMUM, UNLESS INDICATED OTHERWISE.
10. SEE CIVIL ENGINEER'S DRAWINGS FOR ALL SITE UTILITY AND DRAINAGE INFORMATION.
11. SMOOTHLY BLEND ALL PROPOSED GRADES TO EXISTING CONDITIONS. ROUND OFF TOE AND TOP OF SLOPE.
12. ALL WALKWAYS AND PARKING AREAS NOT TO EXCEED 5% – MAXIMUM SLOPE, UNLESS INDICATED OTHERWISE.
13. ALL HANDICAPPED PARKING AREAS NOT TO EXCEED 2% – MAXIMUM SLOPE.
14. ALL HANDICAPPED RAMPS SHALL CONFORM TO ADA REQUIREMENTS.

0 10 20 40'
SCALE: 1" = 20' - 0"

TITLE OF SHEET: LANDSCAPE GRADING PLAN	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		SHEET NO. 1 of 2
REVISIONS			
mark / date / description	DRAWING PREPARED BY: Richter & Cegan Inc. Avon Park North P.O. Box 347 Avon, Connecticut 06001 (860) 678-0649		DATE: 11-21-2012
1 11-21-2012 BID DOCUMENTS			SCALE: 1" = 20' - 0"
	PROJECT: SCSU NEW ACADEMIC LABORATORY BUILDING		DRAWN BY: RSC/JPT
			CHECKED BY: MAC
	SG0026FO.DWG	project no. BI-RS-283	DRAWING NO. LG-100



LEGEND

- GRANITE CURB
- BITUMINOUS CONCRETE CURB
- BRICK PAVERS ON BITUMINOUS SETTING BED
- AGGREGATE PAVEMENT
- POLE LIGHT
- PATH LIGHT
- METAL BENCH
- LITTER RECEPTACLE
- BIKE RACKS
- ACCESSIBLE PARKING SPACE
- YARD DRAIN
- MANHOLE
- TRAFFIC PATTERN

NOTES

SITE IMPROVEMENTS & MATERIALS

1. ALL WALKS ARE CONCRETE UNLESS NOTED OTHERWISE.
2. ALL CURBS ARE GRANITE UNLESS NOTED OTHERWISE.
3. ALL DRIVEWAY PAVEMENT IS BITUMINOUS CONCRETE UNLESS NOTED OTHERWISE.
4. SEE CIVIL DRAWINGS FOR PROPOSED SITE UTILITY AND DRAINAGE IMPROVEMENTS.
5. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL SITE ELECTRICAL IMPROVEMENTS.
6. SEE MECHANICAL DRAWINGS FOR ADDITIONAL SITE IMPROVEMENTS INFORMATION.

PARKING

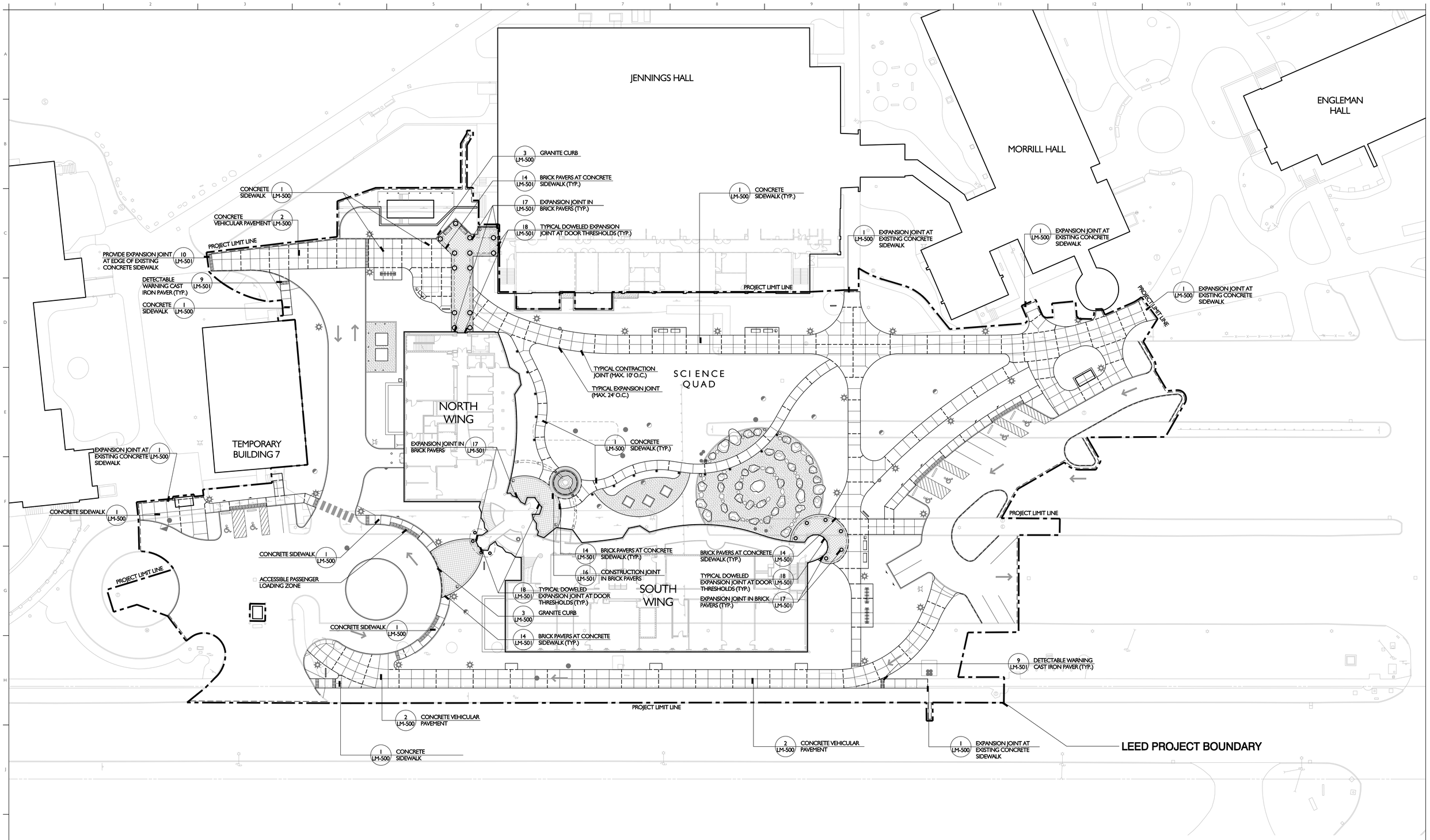
1. PARKING SPACES WITHIN PROJECT LIMITS: 16
2. NUMBER OF ACCESSIBLE DESIGNATED SPACES: 6 (INCL. 2 ACCESSIBLE SPACES AT RELOCATED BUS STOP BY MORRILL HALL 2 ACCESSIBLE SPACES AT NEW ACADEMIC LAB BUILDING, AND 2 ACCESSIBLE SPACES AT RELOCATED BUS STOP BY TEMPORARY BUILDING 7)
3. NUMBER OF LOW-EMITTING/FUEL EFFICIENT VEHICLES SPACES: 2

LEED SITE INFORMATION

PROJECT BOUNDARY AREA: 151,750 SF (3.48 ACRES)

0 10 20 40'
SCALE: 1" = 20' - 0"

LANDSCAPE MATERIALS PLAN	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		1 of 2
REVISIONS: mark / date / description	DRAWING PREPARED BY: Richter & Cegan Inc. Avon Park North P.O. Box 567 Avon, Connecticut 06001 (860) 678-0649		11-21-2012
11-21-2012 BID DOCUMENTS			1" = 20' - 0"
	PROJECT: SCSU NEW ACADEMIC LABORATORY BUILDING		RSC/JPT
			MAC
	CAD FILE: SM0026F0.DWG	PROJECT NO.: BI-RS-283	LM-100



LEGEND

- GRANITE CURB
- BITUMINOUS CONCRETE CURB
- BRICK PAVERS ON BITUMINOUS SETTING BED
- AGGREGATE PAVEMENT
- POLE LIGHT
- PATH LIGHT
- METAL BENCH
- LITTER RECEPTACLE
- BIKE RACKS
- ACCESSIBLE PARKING SPACE
- YARD DRAIN
- MANHOLE
- TRAFFIC PATTERN
- EXAPANSION JOINT IN CONCRETE PAVEMENT
- CONTRACTION JOINT IN CONCRETE PAVEMENT
- SCORED LINE IN COCRETE PAVEMENT

NOTES

SITE IMPROVEMENTS & MATERIALS

1. ALL WALKS ARE CONCRETE UNLESS NOTED OTHERWISE.
2. ALL CURBS ARE GRANITE UNLESS NOTED OTHERWISE.
3. ALL DRIVEWAY PAVEMENT IS BITUMINOUS CONCRETE UNLESS NOTED OTHERWISE.
4. SEE CIVIL DRAWINGS FOR PROPOSED SITE UTILITY AND DRAINAGE IMPROVEMENTS.
5. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL SITE ELECTRICAL IMPROVEMENTS.
6. SEE MECHANICAL DRAWINGS FOR ADDITIONAL SITE IMPROVEMENTS INFORMATION.

0 10 20 40'
SCALE: 1" = 20' - 0"

CONCRETE PAVEMENT JOINTS LAYOUT PLAN

Issue	Date	Description
	11-21-2012	BID DOCUMENTS

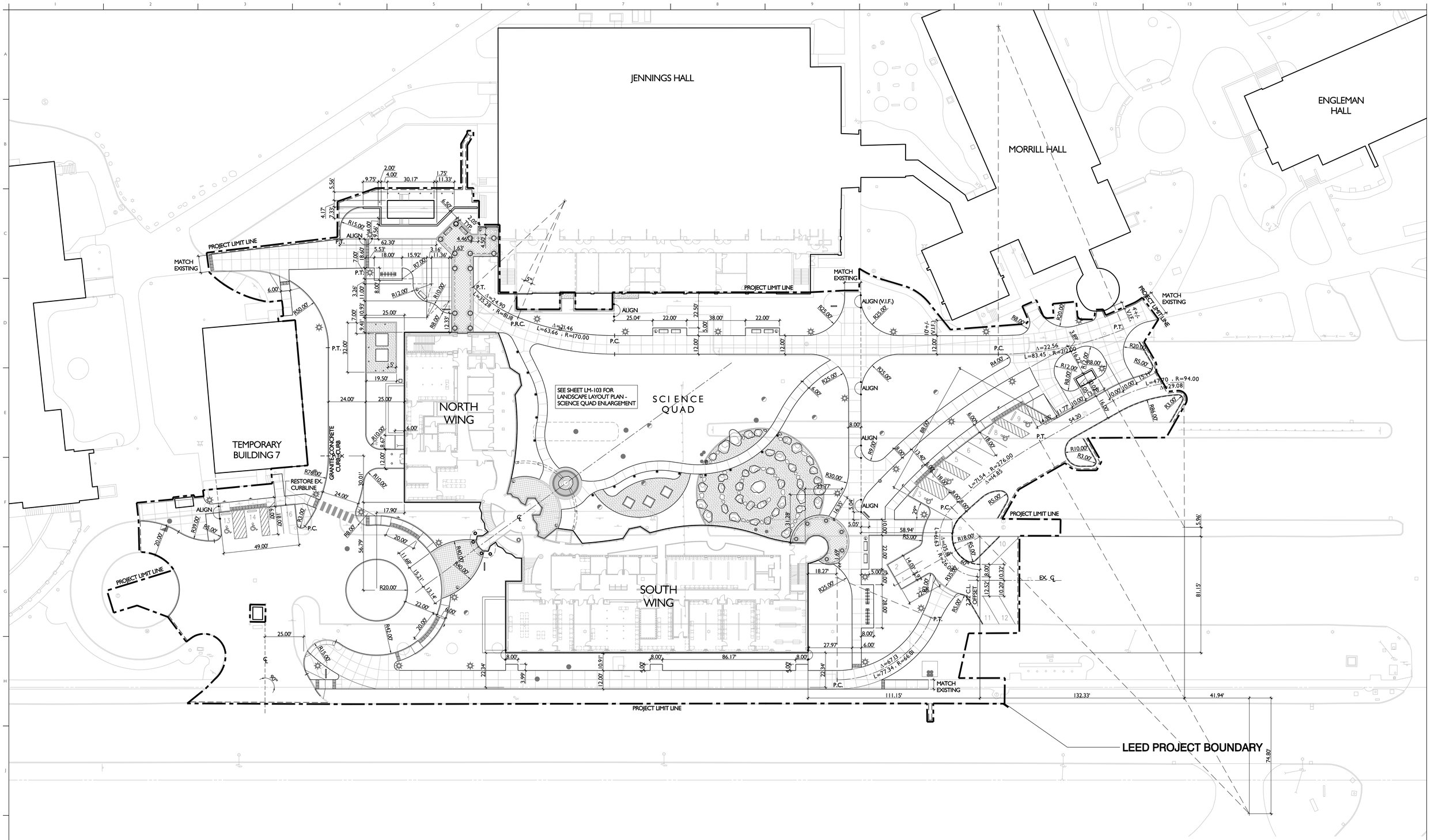
STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY: Richter & Cegan Inc.
Avon Park North P.O. Box 547 Avon, Connecticut 06001 (860) 676-0669

Project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD file: JP0026F0.DWG
Project no.: BI-RS-283

Sheet no. 1 of 2
Date: 11-21-2012
Scale: 1" = 20' - 0"
Drawn by: RSC/JPT
Checked by: MAC
Drawing no.: LM-101



LEGEND

- GRANITE CURB
- BITUMINOUS CONCRETE CURB
- BRICK PAVERS ON BITUMINOUS SETTING BED
- AGGREGATE PAVEMENT
- POLE LIGHT
- PATH LIGHT
- METAL BENCH
- LITTER RECEPTACLE
- BIKE RACKS
- ACCESSIBLE PARKING SPACE
- YARD DRAIN
- MANHOLE

P.C.	POINT OF CURVATURE
P.R.C.	POINT OF REVERSE CURVATURE
P.T.	POINT OF TANGENCY
V.I.F.	VERIFY IN FIELD

NOTES

SITE IMPROVEMENTS & MATERIALS

1. SEE SHEET LM-103 "LANDSCAPE LAYOUT PLAN – SCIENCE QUAD ENLARGEMENT" FOR ADDITIONAL LAYOUT INFORMATION.
2. ALL WALKS ARE CONCRETE UNLESS NOTED OTHERWISE.
3. ALL CURBS ARE GRANITE UNLESS NOTED OTHERWISE.
4. ALL DRIVEWAY PAVEMENT IS BITUMINOUS CONCRETE UNLESS NOTED OTHERWISE.
5. SEE CIVIL DRAWINGS FOR PROPOSED SITE UTILITY AND DRAINAGE IMPROVEMENTS.
6. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL SITE ELECTRICAL IMPROVEMENTS.
7. SEE MECHANICAL DRAWINGS FOR ADDITIONAL SITE IMPROVEMENTS INFORMATION.

PARKING

1. PARKING SPACES WITHIN PROJECT LIMITS: 16
2. NUMBER OF ACCESSIBLE DESIGNATED SPACES: 6 (INCL. 2 ACCESSIBLE SPACES AT RELOCATED BUS STOP BY MORRILL HALL 2 ACCESSIBLE SPACES AT NEW ACADEMIC LAB BUILDING, AND 2 ACCESSIBLE SPACES AT RELOCATED BUS STOP BY TEMPORARY BUILDING 7)
3. NUMBER OF LOW-EMITTING/FUEL EFFICIENT VEHICLES SPACES: 2

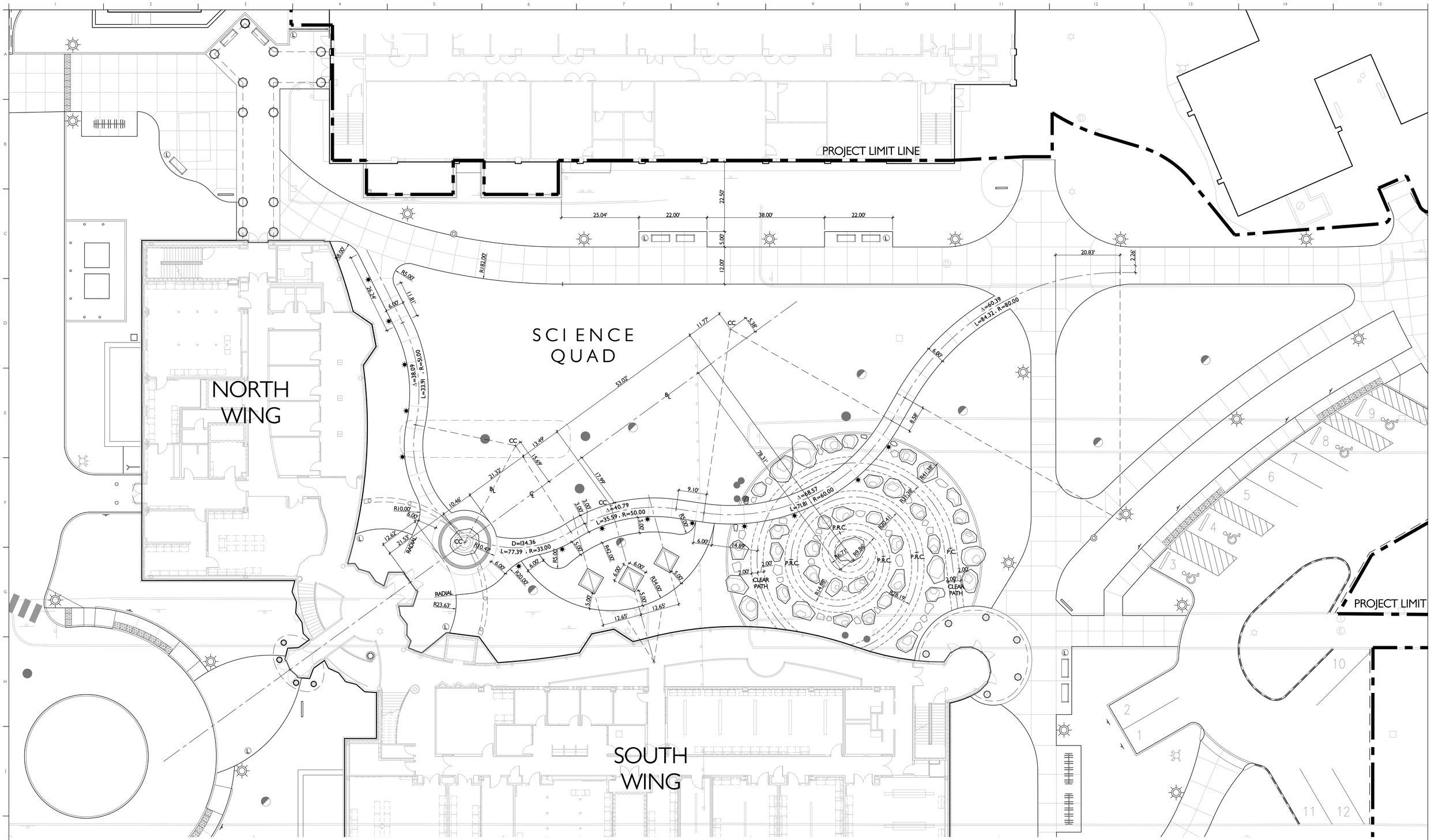
LEED SITE INFORMATION

PROJECT BOUNDARY AREA: 151,750 SF (3.48 ACRES)

0 10 20 40'
SCALE: 1" = 20' - 0"

DRAWING TITLE: LANDSCAPE LAYOUT PLAN	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES
REVISIONS: date / description: 11-21-2012 BID DOCUMENTS	DRAWING PREPARED BY: Richter & Cegan Inc. Avon Park North P.O. Box 347 Avon, Connecticut 06001 (860) 678-0649
PROJECT: SCSU NEW ACADEMIC LABORATORY BUILDING	FILE NO.: SL0026F0.DWG; PROJECT NO.: BI-RS-283

SHEET	1 of 2
DATE	11-21-2012
SCALE	1" = 20' - 0"
DRAWN BY	RSC/JPT
CHECKED BY	MAC
DRAWING NO.	LM-102



LEGEND

- GRANITE CURB
- BITUMINOUS CONCRETE CURB
- BRICK PAVERS ON BITUMINOUS SETTING BED
- AGGREGATE PAVEMENT
- POLE LIGHT
- PATH LIGHT
- METAL BENCH
- LITTER RECEPTACLE
- BIKE RACKS
- ACCESSIBLE PARKING SPACE
- YARD DRAIN
- MANHOLE

P.C.	POINT OF CURVATURE
P.R.C.	POINT OF REVERSE CURVATURE
P.T.	POINT OF TANGENCY
V.I.F.	VERIFY IN FIELD

NOTES

SITE IMPROVEMENTS & MATERIALS

1. SEE SHEET LM-102 "LANDSCAPE LAYOUT PLAN" FOR ADDITIONAL LAYOUT INFORMATION.
2. ALL WALKS ARE CONCRETE UNLESS NOTED OTHERWISE.
3. ALL CURBS ARE GRANITE UNLESS NOTED OTHERWISE.
4. ALL DRIVEWAY PAVEMENT IS BITUMINOUS CONCRETE UNLESS NOTED OTHERWISE.
5. SEE CIVIL DRAWINGS FOR PROPOSED SITE UTILITY AND DRAINAGE IMPROVEMENTS.
6. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL SITE ELECTRICAL IMPROVEMENTS.
7. SEE MECHANICAL DRAWINGS FOR ADDITIONAL SITE IMPROVEMENTS INFORMATION.

PARKING

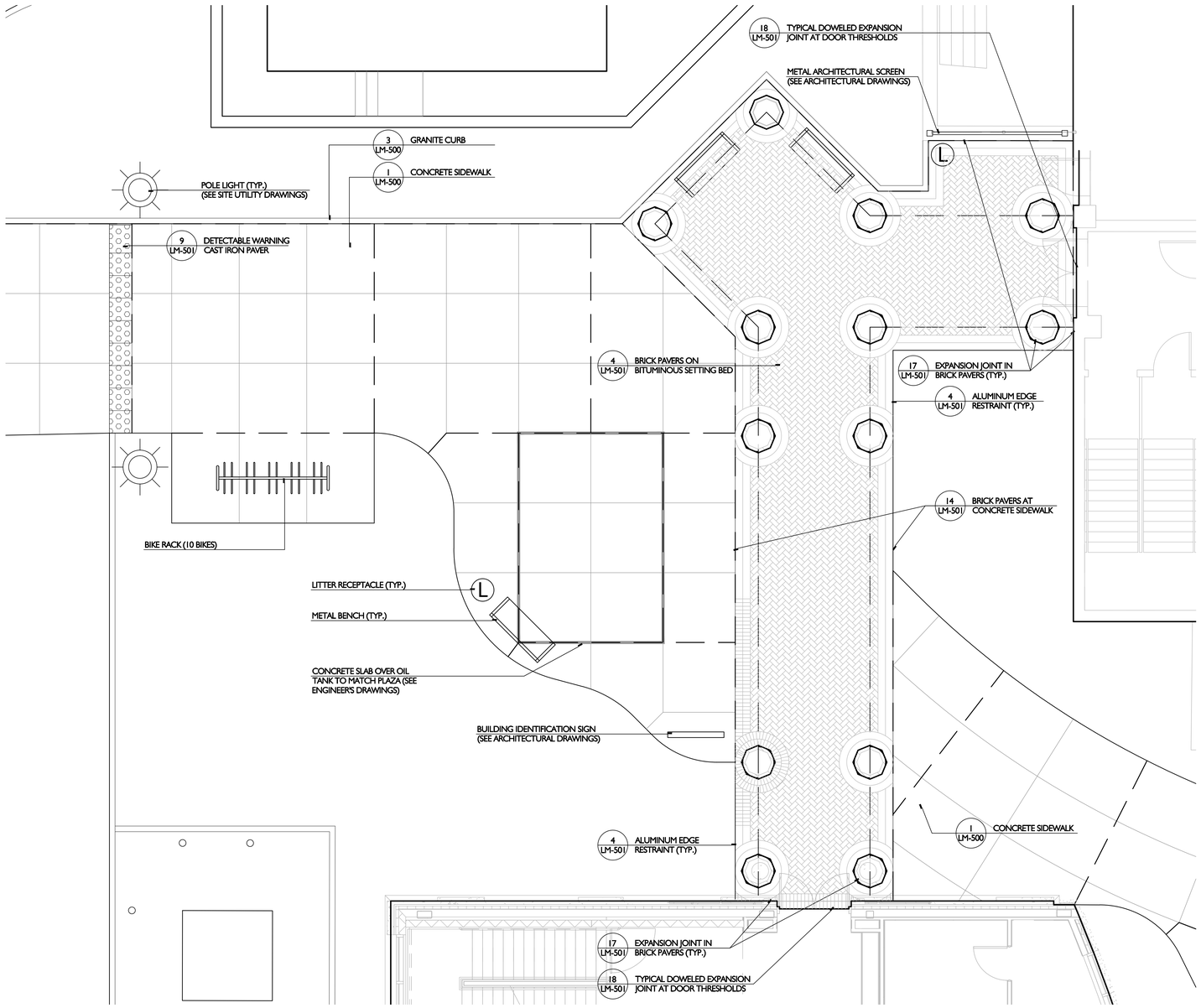
1. PARKING SPACES WITHIN PROJECT LIMITS: 16
2. NUMBER OF ACCESSIBLE DESIGNATED SPACES: 6 (INCL. 2 ACCESSIBLE SPACES AT RELOCATED BUS STOP BY MORRILL HALL 2 ACCESSIBLE SPACES AT NEW ACADEMIC LAB BUILDING, AND 2 ACCESSIBLE SPACES AT RELOCATED BUS STOP BY TEMPORARY BUILDING 7)
3. NUMBER OF LOW-EMITTING/FUEL EFFICIENT VEHICLES SPACES: 2

LEED SITE INFORMATION

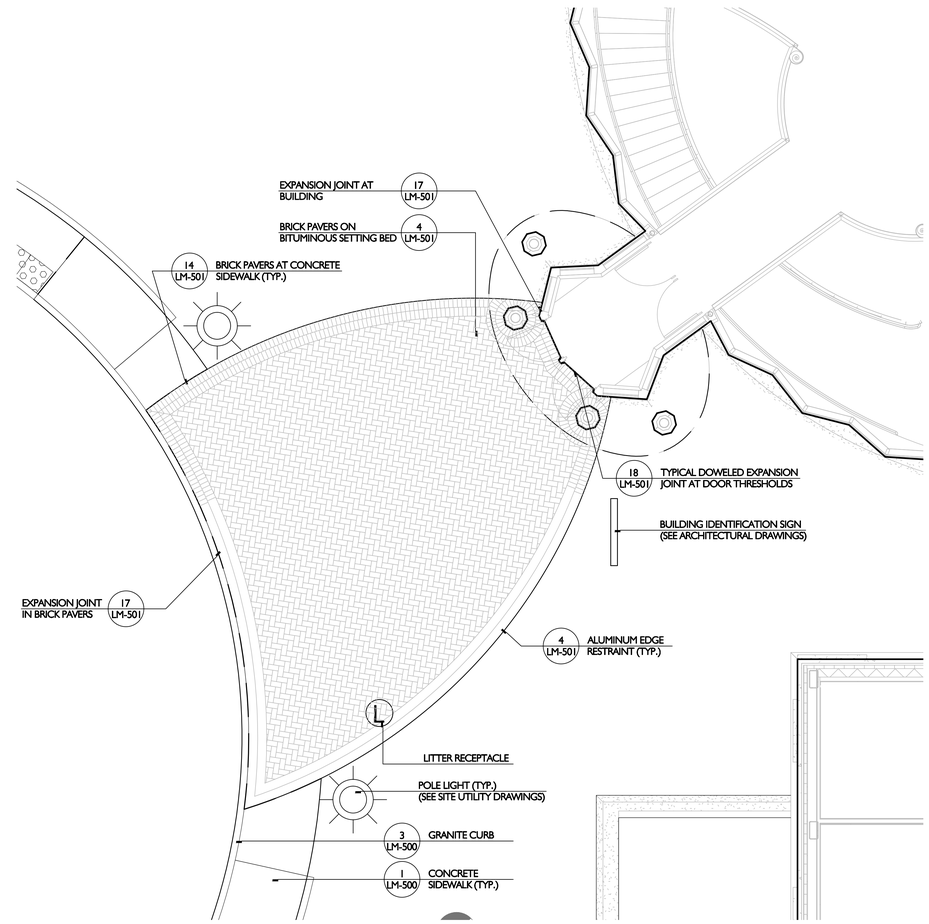
PROJECT BOUNDARY AREA: 151,750 SF (3.48 ACRES)

0 5 10 20'
SCALE: 1" = 10' - 0"

LANDSCAPE LAYOUT PLAN - SCIENCE QUAD ENLARGEMENT	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES	1 of 2
REVISIONS: No. / Date / Description	DRAWING CONTRACTED BY: Richter & Cegan Inc. Avon Park North P.O. Box 547 Avon, Connecticut 06001 (860) 676-0669	11-21-2012
1 11-21-2012 BID DOCUMENTS		1" = 10' - 0"
	PROJECT: SCSU NEW ACADEMIC LABORATORY BUILDING	RSCJPT
		MAC
	KEY NO. SL0026F1.DWG / PROJECT NO. BI-RS-283	LM-103



1 North East Entry Plaza
1/4"=1'-0"



2 North West Entry Plaza
1/4"=1'-0"

LEGEND

- GRANITE CURB
- BITUMINOUS CONCRETE CURB
- BRICK PAVERS ON BITUMINOUS SETTING BED
- AGGREGATE SURFACING
- METAL BENCH
- LITTER RECEPTACLE
- BIKE RACKS
- YARD DRAIN
- MANHOLE
- POLE LIGHT
- PATH LIGHT

NOTES

SITE IMPROVEMENTS & MATERIALS

1. ALL WALKS ARE CONCRETE UNLESS NOTED OTHERWISE.
2. ALL CURBS ARE GRANITE UNLESS NOTED OTHERWISE.
3. ALL DRIVEWAY PAVEMENT IS BITUMINOUS CONCRETE UNLESS NOTED OTHERWISE.
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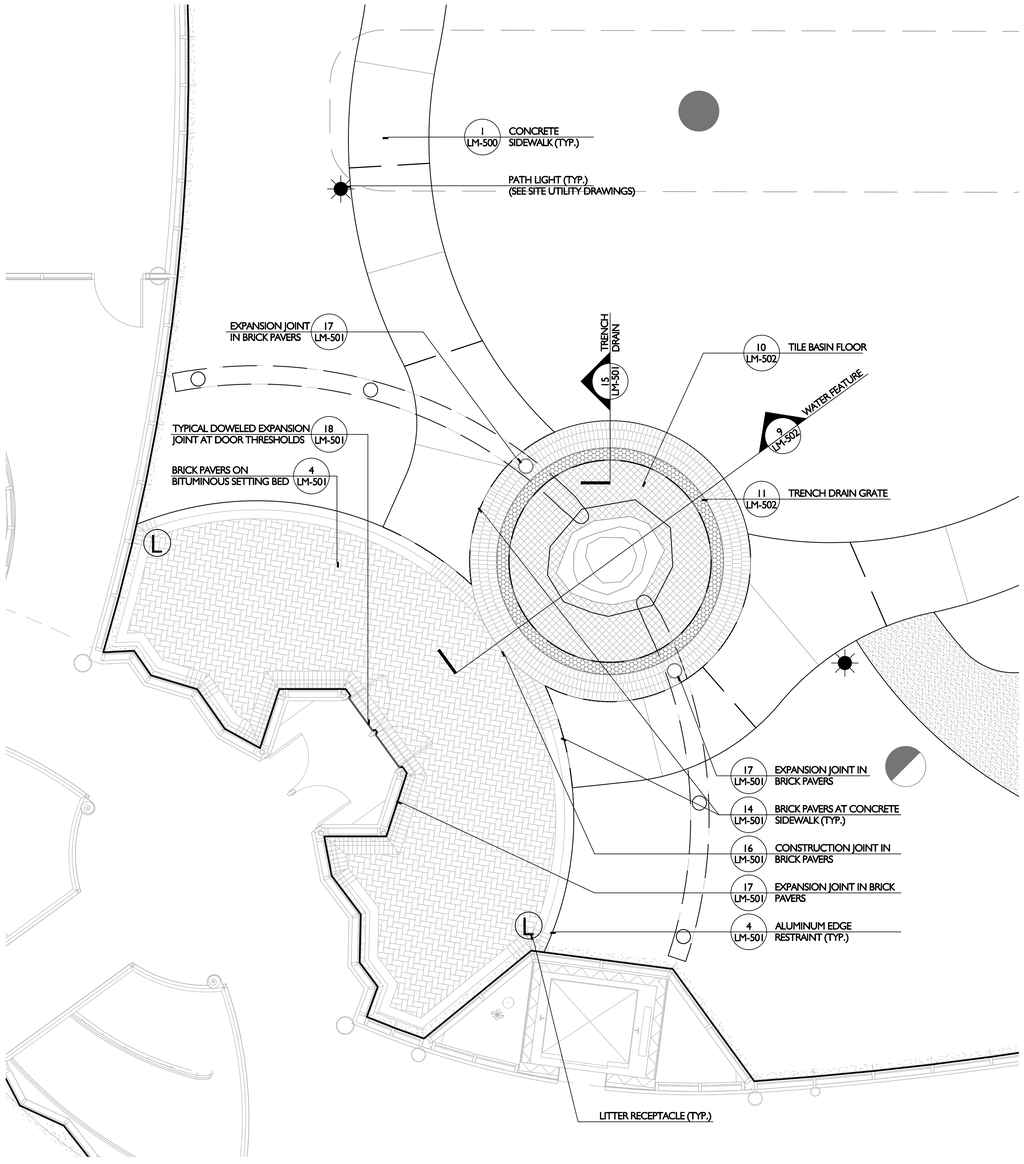
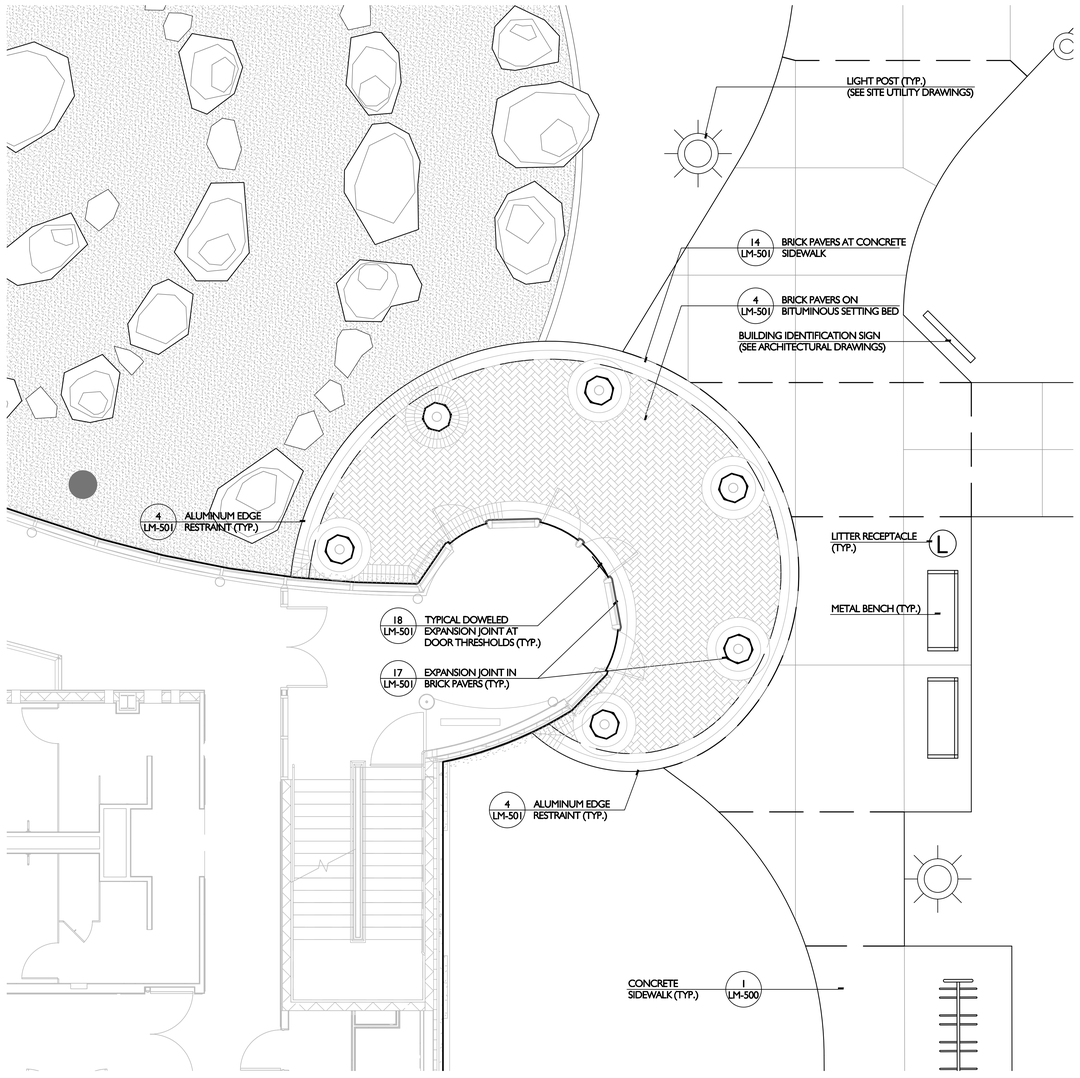
6. SEE MECHANICAL DRAWINGS FOR ADDITIONAL SITE IMPROVEMENTS INFORMATION.

SCALE: 1/4" = 1' - 0"

LANDSCAPE MATERIALS PLAN - ENLARGEMENT	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		SHEET 1 of 2
REVISIONS: Mark / Date / Description	DRAWING PREPARED BY: Richter & Cegan Inc. Avon Park North P.O. Box 347 Avon, Connecticut 06001 (860) 678-0669		11-21-2012
11-21-2012 BID DOCUMENTS	PROJECT: SCSU NEW ACADEMIC LABORATORY BUILDING		1/4" = 1' - 0"
			DRAWN BY: RSC/JPT
			CHECKED BY: MAC
	CAD FILE: EM0026F0_DWG	PROJECT NO.: BI-RS-283	DRAWING NO.: LM-400



1 Pergola Terrace
1/4"=1'-0"



2 South Entry Plaza
1/4"=1'-0"

LEGEND

- GRANITE CURB
- BITUMINOUS CONCRETE CURB
- BRICK PAVERS ON BITUMINOUS SETTING BED
- AGGREGATE SURFACING
- METAL BENCH
- LITTER RECEPTACLE
- BIKE RACKS
- YARD DRAIN
- MANHOLE
- POLE LIGHT
- PATH LIGHT

NOTES

SITE IMPROVEMENTS & MATERIALS

1. ALL WALKS ARE CONCRETE UNLESS NOTED OTHERWISE.
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3. ALL DRIVEWAY PAVEMENT IS BITUMINOUS CONCRETE UNLESS NOTED OTHERWISE.
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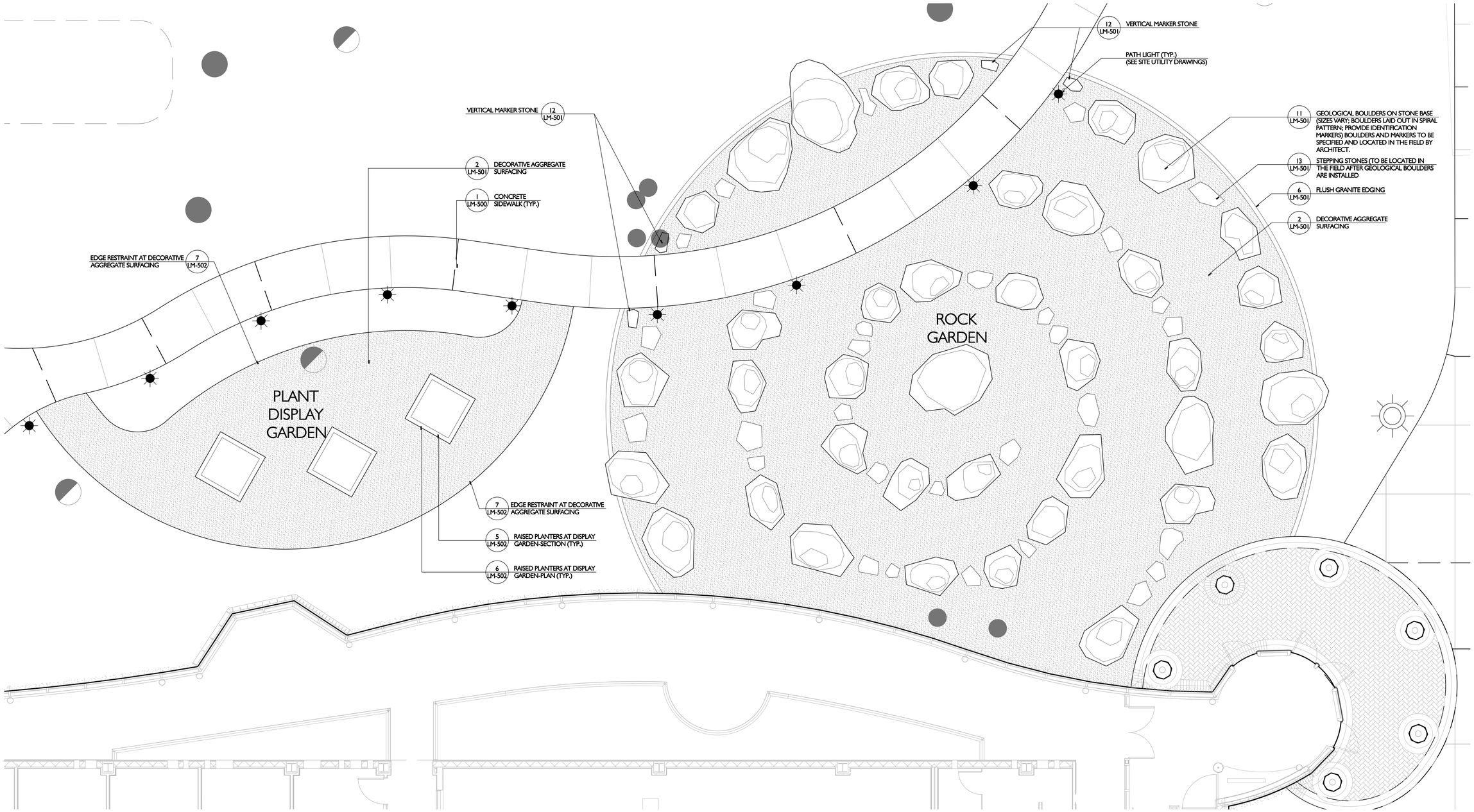
6. SEE MECHANICAL DRAWINGS FOR ADDITIONAL SITE IMPROVEMENTS INFORMATION.

0 1 2 4 8'
SCALE: 1/4" = 1'-0"

LANDSCAPE MATERIALS PLAN - ENLARGEMENT	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		1 of 2
REVISIONS			
mark / date / description	DRAWING PREPARED BY: Richter & Cegan Inc. Avon Park North P.O. Box 347 Avon, Connecticut 06001 (860) 678-0669		11-21-2012
11-21-2012 BID DOCUMENTS			1/4" = 1'-0"
	Project: SCSU NEW ACADEMIC LABORATORY BUILDING		drawn by: RSC/JPT
			checked by: MAC
	CAD file: EM0026F0.DWG	Project no.: BI-RS-283	drawing no.: LM-401



1 Education Garden

1/4"=1'-0"

LEGEND

- GRANITE CURB
- BITUMINOUS CONCRETE CURB
- BRICK PAVERS ON BITUMINOUS SETTING BED
- AGGREGATE SURFACING
- METAL BENCH
- LITTER RECEPTACLE
- BIKE RACKS
- YARD DRAIN
- MANHOLE
- POLE LIGHT
- PATH LIGHT

NOTES

SITE IMPROVEMENTS & MATERIALS

1. ALL WALKS ARE CONCRETE UNLESS NOTED OTHERWISE.
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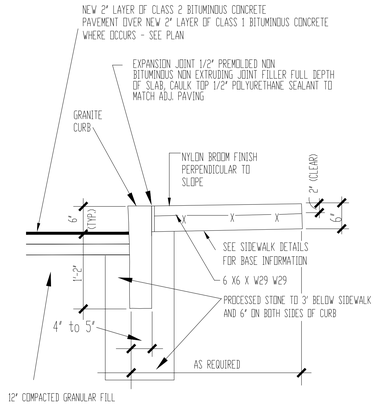
6. SEE MECHANICAL DRAWINGS FOR ADDITIONAL SITE IMPROVEMENTS INFORMATION.

0 1 2 4 8'
SCALE: 1/4" = 1'-0"

DRAWING TITLE: LANDSCAPE MATERIALS PLAN - ENLARGEMENT	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		SHEET NO. 1 of 2
REVISIONS: mark / date / description: 1-21-2012 BID DOCUMENTS	DRAWING PREPARED BY: Richter & Cegan Inc. Avon Park North P.O. Box 367 Avon, Connecticut 06001 (860) 678-0669		DATE: 11-21-2012
			SCALE: 1/4" = 1'-0"
	PROJECT: SCSU NEW ACADEMIC LABORATORY BUILDING		DRAWN BY: RSC/JPT
			CHECKED BY: MAC
	EM0026F0.DWG	PROJECT NO.: BI-RS-283	DRAWING NO.: LM-402



3 Granite Curb

Scale: 1" = 1'

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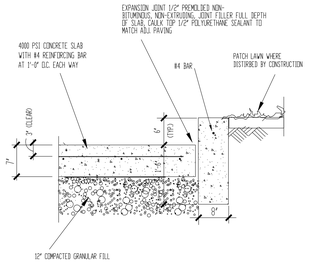

2 Concrete Vehicular Pavement

Scale: 3" = 1'

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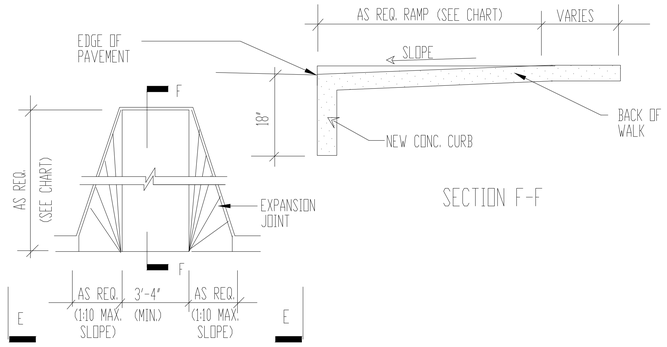

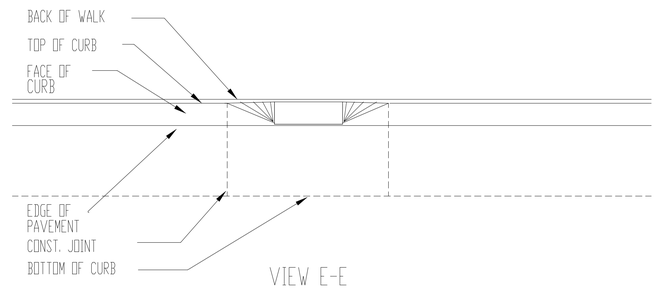

4 Curb Ramp

Scale: 1" = 1'

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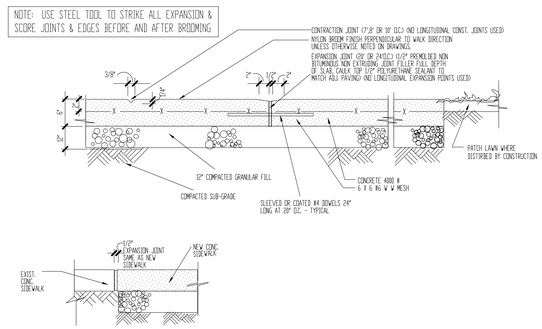
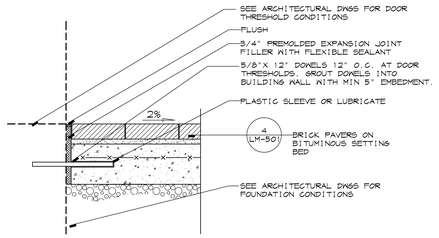


1 Concrete Sidewalk

Not to Scale

Y:\2010026\DETAILS\CONCRETE SIDEWALK.DWG

LANDSCAPE DETAILS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		SHEET 1 of 2
REVISIONS			
mark / date / description	DRAWING PREPARED BY: Richter & Cegan Inc. Avon Park North P.O. Box 347 Avon, Connecticut 06001 (860) 676-0649		11-21-2012
1 11-21-2012 BID DOCUMENTS			AS SHOWN
	Project: SCSU NEW ACADEMIC LABORATORY BUILDING		RSC/JPT
			MAC
	CAD file: DS0026F0.DWG	Project no.: BI-RS-283	Drawing no.: LM-500



18 Typical Doweled Expansion Joint at Door Thresholds

Scale: 1 1/2" = 1'

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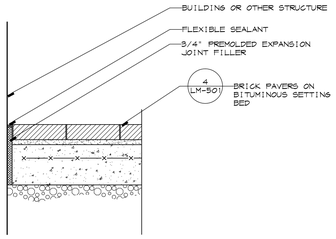

17 Expansion Joint in Brick Pavers

Scale: 1 1/2" = 1'

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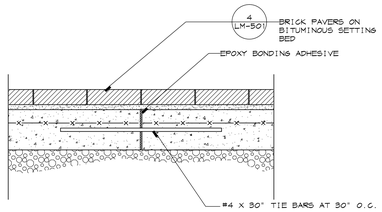

16 Construction Joint in Brick Pavers

Scale: 1 1/2" = 1'

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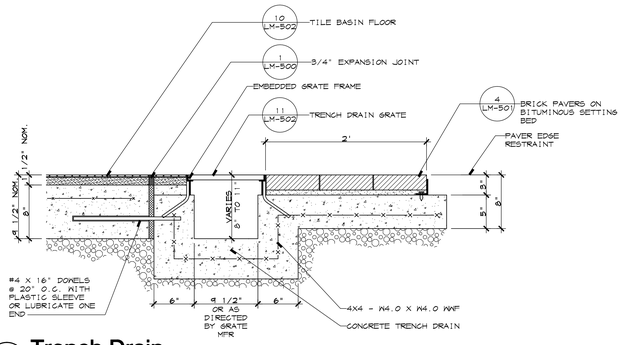

15 Trench Drain

Scale: 1 1/2" = 1'

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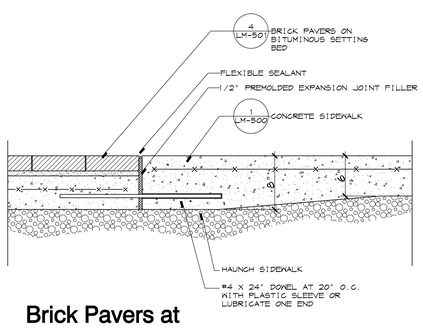

14 Brick Pavers at Concrete Sidewalk

Scale: 1 1/2" = 1'

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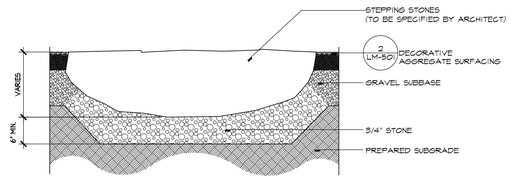

13 Stepping Stone on Stone Base

Not to Scale

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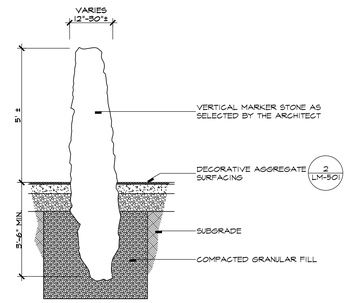

12 Vertical Marker Stone

Scale: 1/2" = 1'

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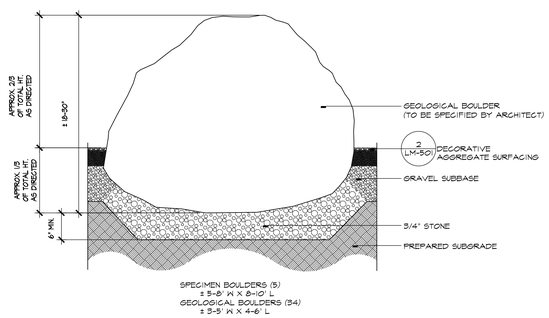
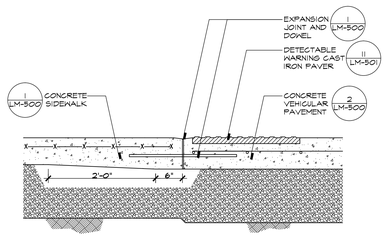


11 Geological Boulder on Stone Base

Not to Scale

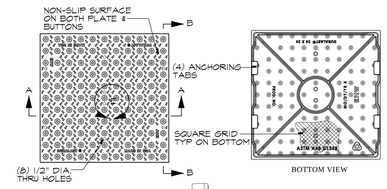
Y:\2010026\DETAILS\BOULDER.DWG

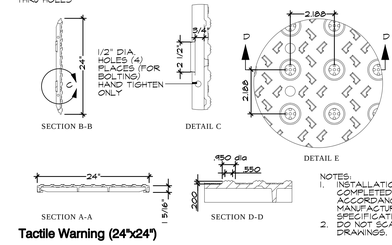


10 Section: Concrete Sidewalk & Concrete Vehicular Pavement

Scale: 1" = 1'

Y:\2010026\DETAILS\CONCWALK-CONCVEHICULAR.DWG





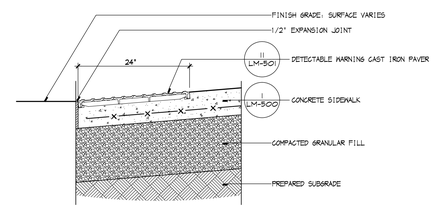
NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS
2. DO NOT SCALE DRAWINGS.

Tactile Warning (24"x24")

9 Detectable Warning Cast Iron Paver

Scale: N.T.S.

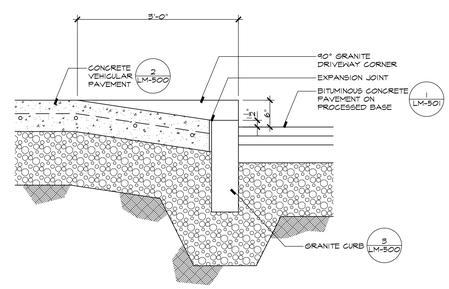
CAST IRON ADA.dwg



8 Curb Ramp Section

Scale: 1" = 1'-0"

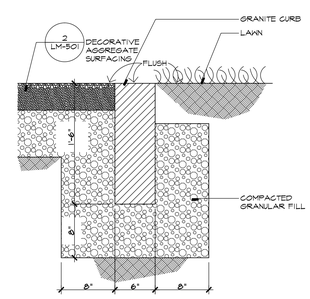
Y:\2010026\DETAILS\252601-CDH.dwg



7 Driveway Ramp

Scale: 1" = 1'

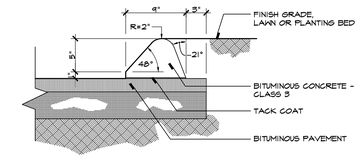
Y:\2010026\DETAILS\DRIVEWAYRAMP.DWG



6 Flush Granite Edging

Scale: 1 1/2" = 1'

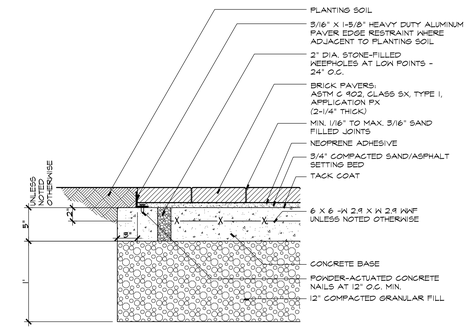
Y:\2010026\DETAILS\FLUSHGRANITEEDGING.DWG



5 Bituminous Curb

Scale: 1 1/2" = 1'

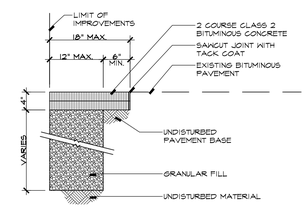
Y:\2010026\DETAILS\252T602a.DWG



4 Brick Pavers on Bituminous Setting Bed

Scale: 1 1/2" = 1'

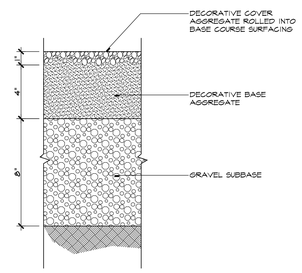
Y:\2010026\DETAILS\BRICKPAVER.DWG



3 Pavement Repair

Scale: 1" = 1'

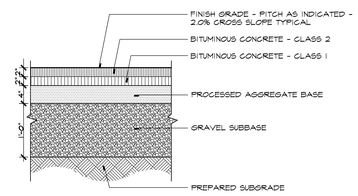
Y:\2010026\DETAILS\PAVEMENTREPAIR.DWG



2 Decorative Aggregate Surfacing

Scale: 3" = 1'

Y:\2010026\DETAILS\DECORATIVEAGGREGATESURFACING.DWG

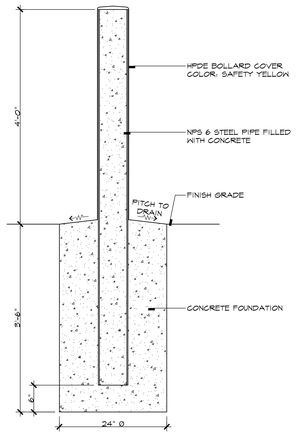


1 Bituminous Concrete Pavement on Processed Base

Scale: 1" = 1'-0"

Y:\2010026\DETAILS\2510602c.DWG

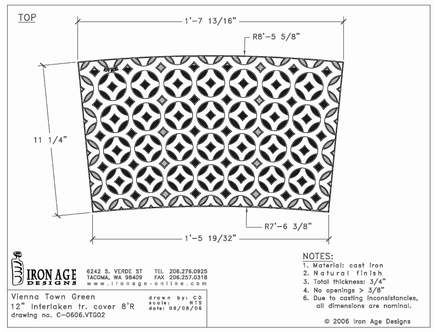
LANDSCAPE DETAILS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		1 of 2
REVISIONS			
Mark / Date / Description	DRAWING PREPARED BY Richter & Cegan Inc. Avon Park North P.O. Box 547 Avon, Connecticut 06001 (860) 676-0649		11-21-2012
11-21-2012 BID DOCUMENTS			AS SHOWN
	PROJECT SCSU NEW ACADEMIC LABORATORY BUILDING		DRAWN BY RSC/JPT
			CHECKED BY MAC
	CAD FILE DS0026F0.DWG	PROJECT NO. BI-RS-283	DRAWING NO. LM-501



12 Pipe Bollard

Scale: 1" = 1'

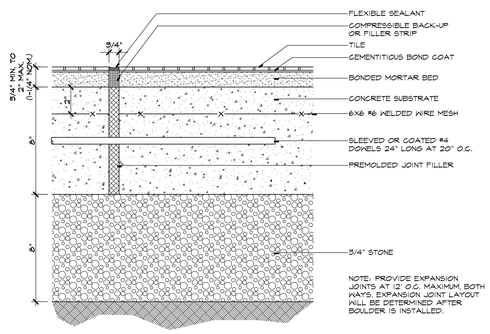
Y:\2010026\DETAILS\PIPEBOLLARD.DWG



11 Trench Drain Grate

Scale: 3" = 1'

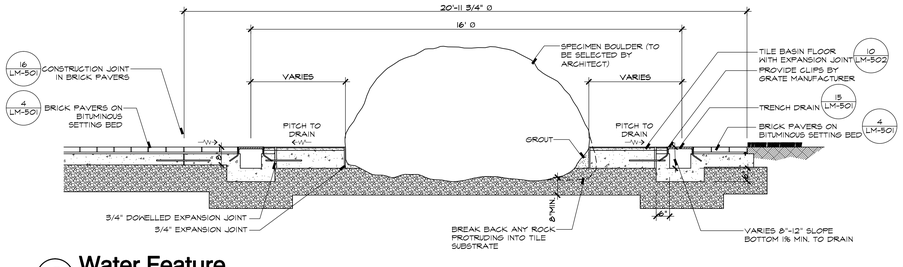
Y:\2010026\DETAILS\TRENCHDRAIN.DWG



10 Tile Basin Floor with Expansion Joint

Scale: 3" = 1'

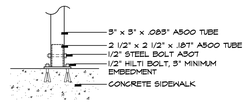
Y:\2010026\DETAILS\TILEBASINFLOOR.DWG



9 Water Feature

Scale: 1/2" = 1'

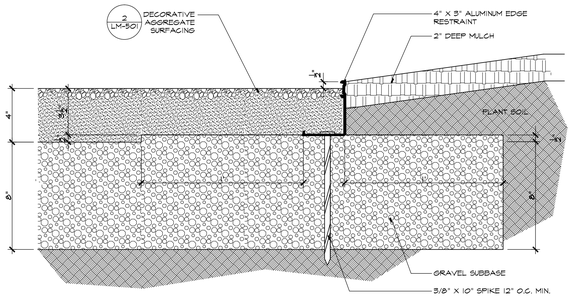
Y:\2010026\DETAILS\WaterFeature.dwg



8 Anchor Shoe for Bus Shelter

Scale: 1" = 1'

Y:\2010026\DETAILS\ANCHORSHOE.DWG



7 Edge Restraint at Decorative Aggregate Surfacing

Scale: 3" = 1'

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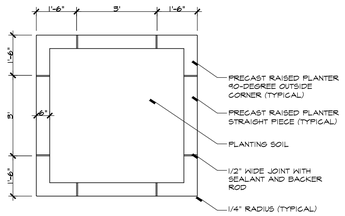
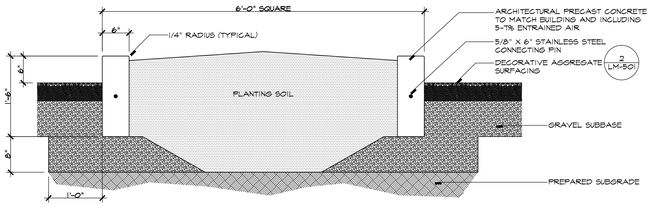


6 Raised Planters at Display Garden - Plan

Scale: 1/2" = 1'-0"

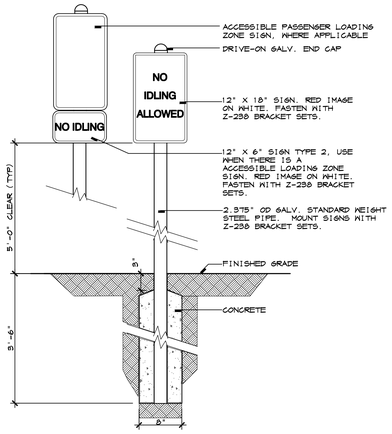
raisedplanterplan.dwg



5 Raised Planters at Display Garden - Section

Scale: 1" = 1'

Y:\2010026\DETAILS\RAISEDPLANTERS.DWG



4 No Idling Allowed Signage

N.T.S.

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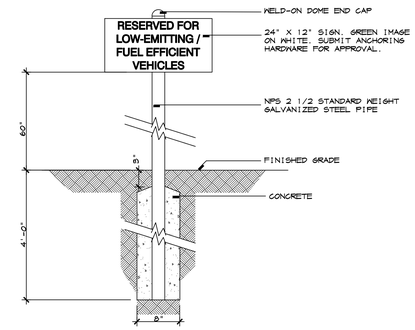
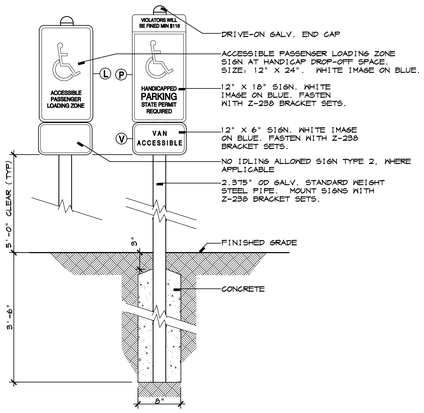


3 Reserved Fuel Efficient Vehicles Signage

N.T.S.

Z:\2011024\DETAILS\FEV-SIGN.DWG



2 Accessible Parking and Loading Zone Signage

N.T.S.

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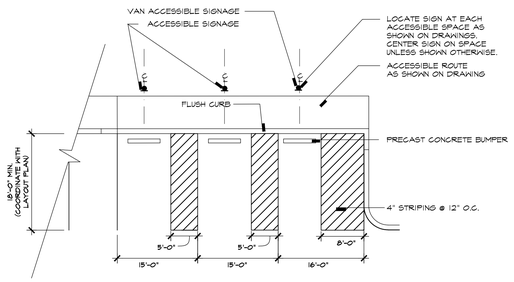


NOTES:

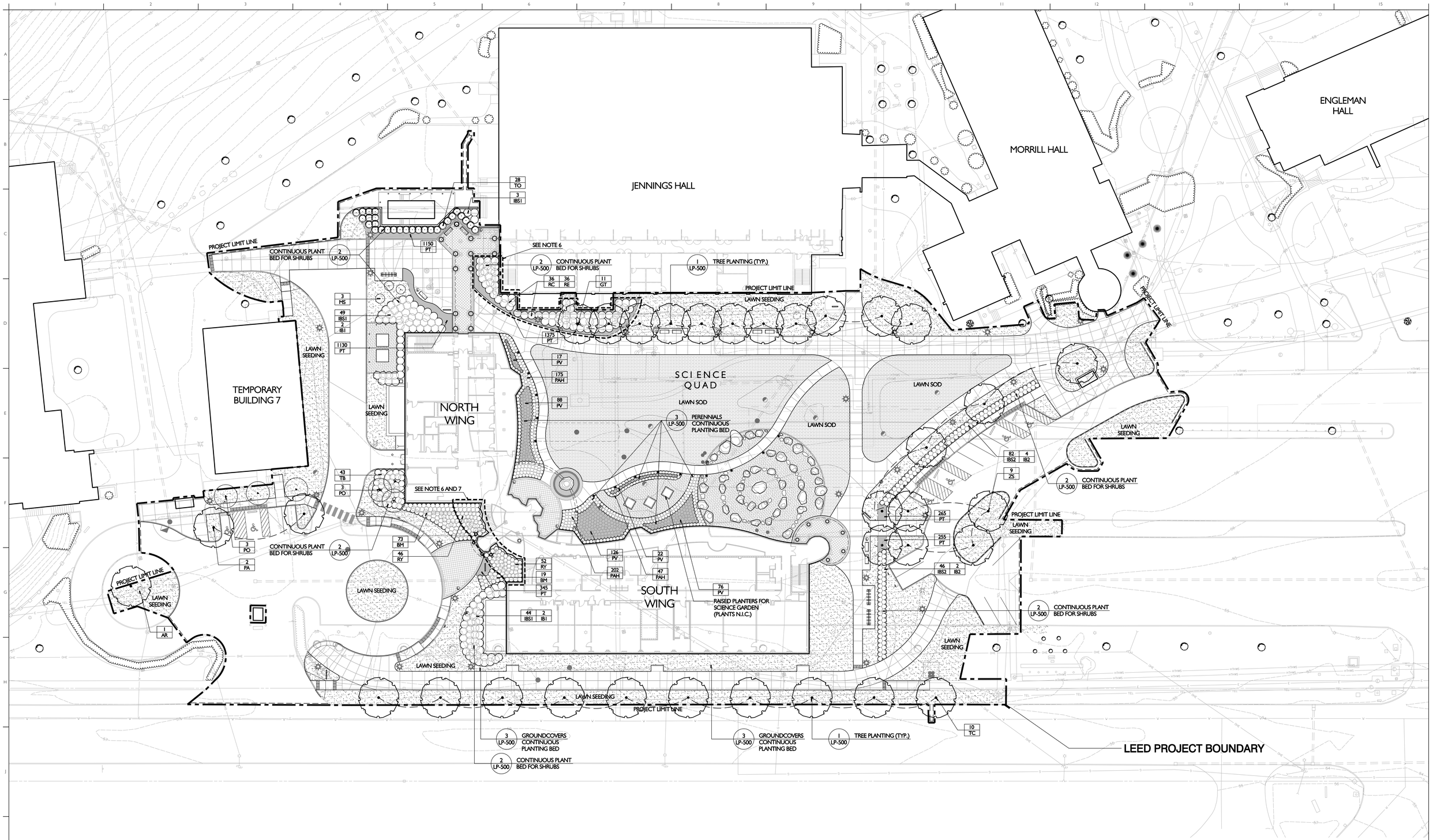
1. SEE LM-100 SERIES FOR SITE SIGNAGE AND STRIPING PLAN.
2. PITCH PAVEMENT NO MORE THAN A 2% SLOPE ANY DIRECTION.
3. COLOR OF STRIPING SHALL BE WHITE.
4. IF ONLY ONE ACCESSIBLE SPACE IS PROVIDED, IT SHALL BE 16' WIDE, WITH A STRIPED AISLE THAT IS 8' WIDE.

1 Accessible Parking Spaces (Typical)

1"=10'

Y:\2010026\DETAILS\2580p20.DWG

LANDSCAPE DETAILS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		1 of 2
REVISIONS			
mark / date / description	Richter & Cegan Inc. Avon Park North P.O. Box 347 Avon, Connecticut 06001 (860) 678-0649		11-21-2012
11-21-2012 BID DOCUMENTS			AS SHOWN
	SCSU NEW ACADEMIC LABORATORY BUILDING		RSC/JPT
			MAC
	DS0026FO.DWG	BI-RS-283	LM-502



LEGEND

- SHADE TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- PLANT BED (SHRUBS, PERENNIALS AND GROUNDCOVER)
- LAWN SEEDING
- LAWN SOD

NOTES

SITE PLANTING

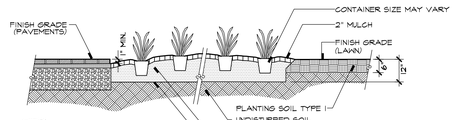
1. ALL EXTERIOR GROUND AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY BUILDINGS, STRUCTURES, PAVING, CONTINUOUS PLANTING BEDS OR OTHER SITE IMPROVEMENTS SHALL BE GRADED, TOPSOILED WITH PLANTING SOIL TO A DEPTH OF 6" AND SEEDED.
2. ALL PLANT BEDS AND LAWN AREAS IN PARKING LOT ISLANDS TO BE TOP SOILED WITH PLANTING SOIL TO A DEPTH OF 18".
3. MULCH ALL NEW PLANT BEDS TO ACHIEVE A 3" DEPTH (AFTER SETTLEMENT) FOR TREES AND SHRUBS, AND A 2" DEPTH (AFTER SETTLEMENT) FOR PERENNIAL AND GROUNDCOVER BEDS. MULCH FOR SAUCERS AND PLANTING AREAS TO BE DOUBLE GROUNDED SHREDDED BARK MULCH.
4. ALL LAWN AND PLANTING AREA SOIL PREPARATION SHALL BE FERTILIZED AND AMENDED ACCORDING TO THE RECOMMENDATIONS OF A SOIL ANALYSIS PROVIDED BY AN APPROVED SOIL TESTING LABORATORY AND APPROVED BY THE LANDSCAPE ARCHITECT.
5. LANDSCAPE ARCHITECT TO TAG ALL TREES AND SHRUBS FOR THIS PROJECT. ALL PROPOSED SHADE TREES TO BE UNIFORM, HEAVY SPECIMENS.
6. PROVIDE TYPE II PLANTING SOIL IN RHODODENDRON BEDS.
7. DEPTH OF PLANTING SOIL OVER GREEN ROOF VARIES: PROVIDE PLANTING SOIL FULL DEPTH BETWEEN GREEN ROOF AND FINISHED GRADE.

0 10 20 40'
SCALE: 1" = 20' - 0"

DRAWING TITLE: LANDSCAPE PLANTING PLAN	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		SHEET 1 of 2
REVISIONS: mark / date / description			
11-21-2012 BID DOCUMENTS	DRAWING PREPARED BY: Richter & Cegan Inc. Avon Park North P.O. Box 347 Avon, Connecticut 06001 (860) 678-0669		11-21-2012
			1" = 20' - 0"
	PROJECT: SCSU NEW ACADEMIC LABORATORY BUILDING		DRAWN BY: RSC/JPT
			CHECKED BY: MAC
	FILE: LP0026F0.DWG	PROJECT NO.: BI-RS-283	DRAWING NO.: LP-100

Plant List

SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
TREES					
AR	1	ACER RUBRUM 'RED SUNSET'	RED SUNSET MAPLE	6 1/2-7" CAL.	UNIFORM, HEAVY SPECIMEN; SEE NOTE 5, SHEET LP-100
GT	11	GLEDITSIA TRIACANTHOS VAR. INERMIS 'SKYLINE'	SKYLINE HONEYLOCUST	6 1/2-7" CAL.	UNIFORM, HEAVY SPECIMEN; SEE NOTE 5, SHEET LP-100
MS	3	MAGNOLIA STELLATA 'ROYAL STAR'	ROYAL STAR MAGNOLIA	7-8' HT.	UNIFORM, HEAVY SPECIMEN; SEE NOTE 5, SHEET LP-100
PA	2	PLATANUS X ACERFOLIA 'BLOODGOOD'	BLOODGOOD LONDON PLANETREE	4-4 1/2" CAL.	UNIFORM, HEAVY SPECIMEN; SEE NOTE 5, SHEET LP-100
PO	6	PRUNUS OKAME	OKAME CHERRY	3-3 1/2" CAL.	UNIFORM, HEAVY SPECIMEN; SEE NOTE 5, SHEET LP-100
TO	28	THUJA OCCIDENTALIS 'EMERALD GREEN'	EMERALD GREEN ARBORVITAE	8-9' HT.	B&B; UNIFORM
TC	10	TILIA CORDATA 'GREENSPIRE'	GREENSPIRE LITTLELEAF LINDEN	4-4 1/2" CAL.	UNIFORM, HEAVY SPECIMEN; SEE NOTE 5, SHEET LP-100
ZS	9	ZELKOVA SERRATA 'GREENVASE'	GREENVASE JAPANESE ZELKOVA	4-4 1/2" CAL.	UNIFORM, HEAVY SPECIMEN; SEE NOTE 5, SHEET LP-100
SHRUBS					
SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
BM	92	BUXUS MICROPHYLLA 'GREEN VELVET'	GREEN VELVET BOXWOOD	24-30"	B&B
IB1	4	ILEX X MESERVEAE 'BLUE PRINCE'	BLUE PRINCE HOLLY	2 1/2-3' (5 GAL.)	
IB2	6	ILEX X MESERVEAE 'BLUE PRINCE'	BLUE PRINCE HOLLY	3-3 1/2'	
IBS1	96	ILEX X MESERVEAE 'BLUE PRINCESS'	BLUE PRINCESS HOLLY	2 1/2-3' (5 GAL.)	
IBS2	128	ILEX X MESERVEAE 'BLUE PRINCESS'	BLUE PRINCESS HOLLY	3-3 1/2'	
RC	36	RHODODENDRON 'CUNNINGHAM'-WHITE	CUNNINGHAM RHODODENDRON	30-36"	B&B
RE	36	RHODODENDRON 'ENGLISH ROSEUM'	ENGLISH ROSEUM RHODODENDRON	30-36"	B&B
RY	98	RHODODENDRON X YAKU 'PRINCE'	YAK PRINCE RHODODENDRON	24-30"	B&B
TB	43	TAXUS BACCATA 'REPANDENS'	SPREADING ENGLISH YEW	24-30"	B&B
PERENNIALS					
SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
PV	329	PANICUM VIRGATUM 'RUBY RIBBONS'	RED SWITCH GRASS	1 GAL.	2' O.C.
PAH	424	PENNISETUM ALOPECUROIDES 'HAMELN'	DWARF FOUNTAIN GRASS	1 GAL.	2' O.C.
GROUNDCOVER					
SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
PT	4520	PACHYSANDRA TERMINALIS 'GREEN CARPET'	JAPANESE SPURGE	2 YR ROOTED CUTTINGS	6" O.C.



NOTES:
1. SET CROWN OF ROOT BALL LEVEL WITH FINISH GRADE.
2. MAINTAIN MINIMUM OF 4" PLANTING SOIL BELOW EACH INDIVIDUAL PLANT.
3. MULCH ENTIRE AREA OF GROUNDCOVER, PERENNIALS OR ANNUALS.
4. MULCH CAREFULLY AROUND EACH PLANT. DO NOT COVER CROWNS OF PLANTS WITH MULCH.

3 Groundcovers / Perennials Continuous Planting Bed

N.T.S.

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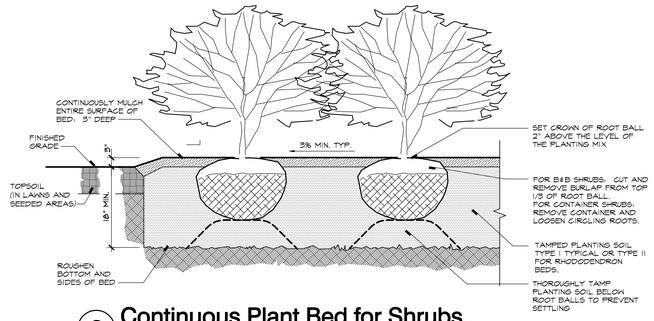

2 Continuous Plant Bed for Shrubs

Scale: 1" = 1' - 0"

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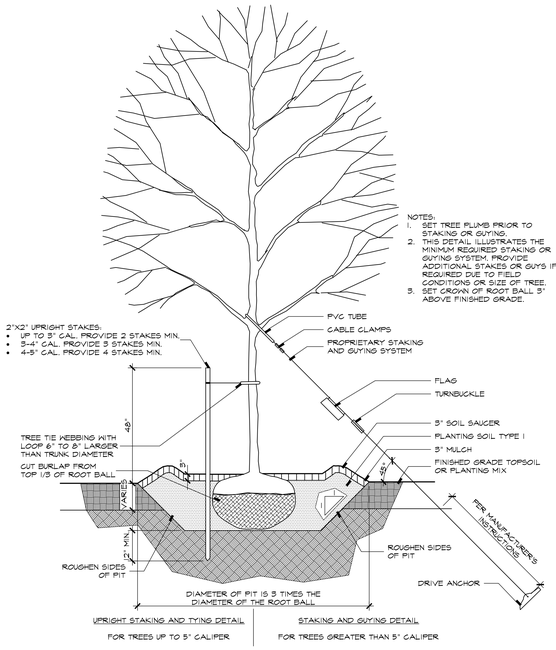
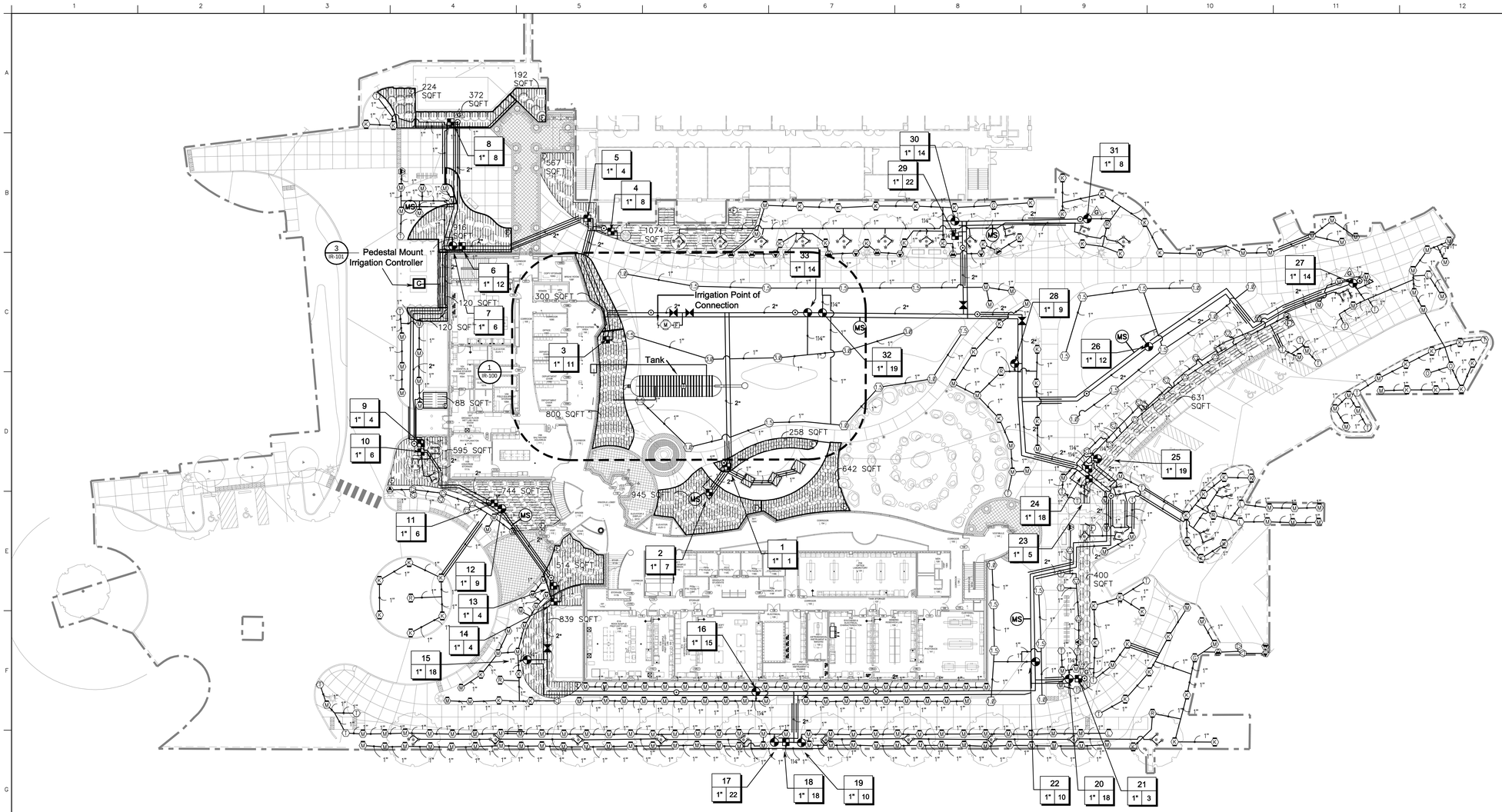


1 Tree Planting with Trunk Stabilization

Not to Scale

Y:\2010026\DETAILS\2450bd01A.DWG

DRAWING TITLE: LANDSCAPE DETAILS AND PLANT LIST	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		SHEET NO. 1 of 2
REVISIONS			DATE 11-21-2012
mark / date / description: 11-21-2012 BID DOCUMENTS	DRAWING PREPARED BY: Richter & Cegan Inc. Avon Park North P.O. Box 347 Avon, Connecticut 06001 (860) 678-0649		SCALE AS SHOWN
	PROJECT: SCSU NEW ACADEMIC LABORATORY BUILDING		DRAWN BY RSC/JPT
			CHECKED BY MAC
	DWG. NO. DS0026F0.DWG	PROJECT NO. BI-RS-283	DRAWING NO. LP-500



IRRIGATION_SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	
M L O	Hunter MP1000 PROS-06-CV Turf Rotator, 6" (15.24 cm) pop-up with check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PRS40 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.	7 IR-101
M M M	Hunter MP2000 PROS-06-CV Turf Rotator, 6" (15.24 cm) pop-up with factory installed check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PRS40 body. K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc.	
T	Hunter MP Corner PROS-06-CV Turf Rotator, 6" (15.24cm) pop-up with factory installed check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PRS40 body. T=Turquoise adj arc 45-105.	
LST RST SST	Hunter MP Strip PROS-06-CV Turf Rotator, 6" (15.24 cm) pop-up with factory installed check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PRS40 body. LST=Ivory left strip, SST=Brown side strip, RST=Copper right strip.	
1401 1402 1404 1408	Rain Bird RWS-B Root Watering System with 4" diameter x 36" long with locking grate, semi-rigid mesh tube and Rain Bird bubbler option as indicated: 1401 (0.25gpm), 1402 (0.5gpm), 1404 (1.0gpm), 1408 (2.0gpm).	12 IR-101, 13 IR-101

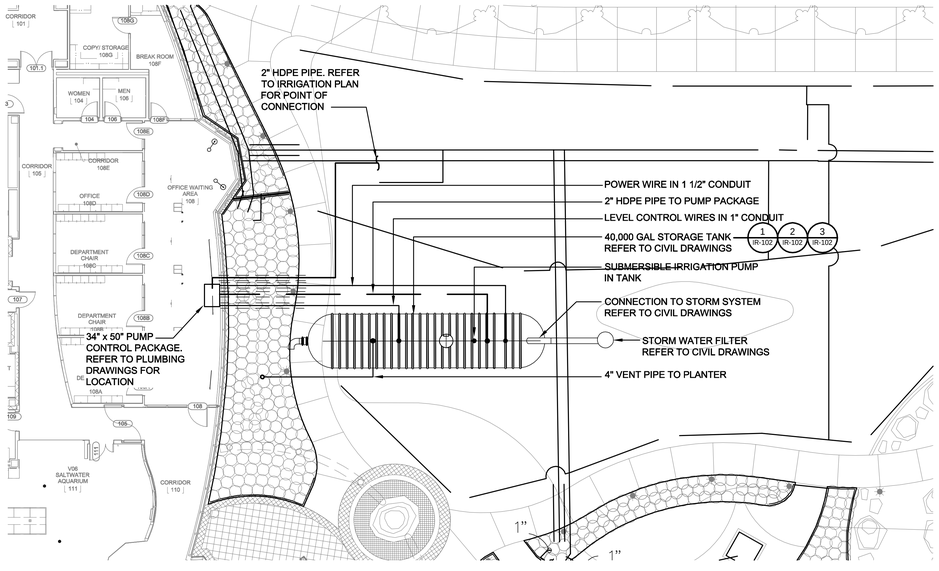
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	
1.5	Rain Bird 5006-PL-PC, FC-SAM Turf Rotor, 6" popup, adjustable and full circle, with check valve	11 IR-101
5.0	Rain Bird 5006-PL-PC, FC-SAM Turf Rotor, 6" popup, adjustable and full circle, with check valve	
1.0	Rain Bird 5006-PL-PC, FC-SAM-LA Turf Rotor, 6" popup, adjustable and full circle, with check valve, low angle nozzle	
1.5	Rain Bird 5006-PL-PC, FC-SAM-LA Turf Rotor, 6" popup, adjustable and full circle, with check valve, low angle nozzle	

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	
	Rain Bird XCZ-100-PRF Drip Control Kit, 1" (25mm) DV valve, 1" (25mm) pressure regulating filter.	
	Netafim TL050MFV-1 Automatic flush valve, 1/2" male pipe thread.	5 IR-101, 6 IR-101
	Area to Receive Dripline Rain Bird XFS-06-12 (18) Landscape Dripline with Copper Shield, 0.61gph emitters at 12" o.c. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern.	4 IR-101, 9 IR-101, 10 IR-101, 14 IR-101
G	Ground Location	15 IR-101

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	
	Electric Remote Control Scrubber Valve	1 IR-101
M	Master Valve Normally open design, solid brass construction, electric.	7 IR-102
C	Two-Wire Decoder controller	3 IR-101
F	Filtration First Flush Filter	3 IR-102
	Isolation Valve	
	Quick Coupling Valve	
MS	Moisture Sensor	4 IR-102
	Irrigation Lateral Line: Polyethylene Pipe SDR-7 Only lateral transition pipe sizes 1 1/4" and above are indicated on the plan, with all others being 1" in size.	8 IR-101
	Irrigation Mainline: PVC Class 200 SDR 21	8 IR-101
	Irrigation Two-Wire Path	8 IR-101
	Pipe Sleeve: PVC Class 160 SDR 26 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	5 IR-102, 6 IR-102

Valve Callout

- # — Valve Number
- #" — Valve Flow
- # — Valve Size



1 TANK ENLARGEMENT PLAN
1"=10'-0"

IRRIGATION NOTES:

1. IRRIGATION PLAN IS DIAGRAMMATIC. ALL IRRIGATION EQUIPMENT WILL BE LOCATED IN THE FIELD BY THE IRRIGATION INSTALLER.
2. IRRIGATION INSTALLER TO LAYOUT AND STAKE ALL IRRIGATION EQUIPMENT IN THE FIELD PRIOR TO INSTALLATION. LOCATIONS TO BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
3. ALL VALVE BOXES ARE TO BE INSTALLED IN PLANT BEDS.
4. COORDINATE IRRIGATION WORK WITH LAWN AND PLANTING WORK.
5. COORDINATE IRRIGATION WORK WITH UTILITY WORK.
6. IRRIGATION SYSTEM REQUIREMENTS:
   50 GPM @ 80 PSI
7. IRRIGATION PIPING DEPTH REQUIREMENTS:
   MAIN LINE PIPE - 18" OF COVER
   CONDUIT FOR CONTROL WIRE - 18" OF COVER
   LATERAL LINE PIPE - 12" OF COVER
   DRIP IRRIGATION SUB-MAIN AND EXHAUST MANIFOLDS - 12" OF COVER
   DRIP IRRIGATION TUBING - 2" OF COVER (EXCLUDING MULCH)
8. INSTALL RAIN SENSOR IN LOCATION APPROVED BY THE ARCHITECT.
9. THE CONTRACTOR IS RESPONSIBLE FOR LOCATION ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES EITHER SHOWN OR NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES AND STRUCTURES DURING CONSTRUCTION.
10. ALL VALVES, WIRE SPLICES, AND QUICK COUPLERS ARE TO BE LOCATED IN VALVE BOXES. VALVE BOXES TO BE SET FLUSH WITH FINISH GRADE
11. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH OTHER TRADES.
12. THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF AS-BUILT DRAWINGS DURING CONSTRUCTION, AND PROVIDE THE CITY WITH A REPRODUCIBLE COPY UPON COMPLETION OF THE PROJECT.
13. CONTRACTOR IS TO PROGRAM AND MAINTAIN CONTROLLER UNTIL FINAL ACCEPTANCE OF THE PROJECT. COORDINATE SCHEDULE WITH LANDSCAPE CONTRACTOR

0 10 20 40'
SCALE: 1" = 20' – 0"

drawing title: IRRIGATION PLAN	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		volume: 1 of 2
REVISIONS: mark / date / description	DRAWING PREPARED BY: Northern Designs LLC, 2089 Hartford Turnpike, North Haven, CT 06473		date: 11-21-2012
11/21/12 Bid Documents			scale: 1" = 20' - 0"
	project: SCSU ACADEMIC LABORATORY BUILDING		drawn by: RE
			approved by: MJA
	CAD no. 1300	project no. BI-RS-283	drawing no. IR-100

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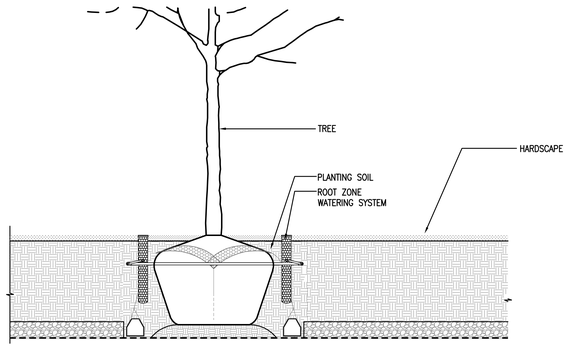
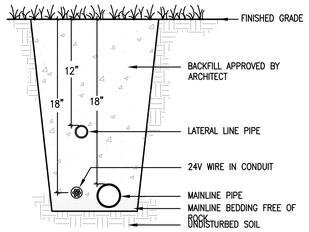
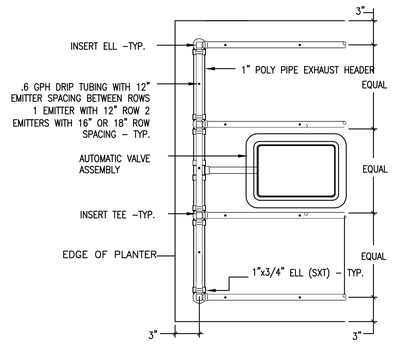


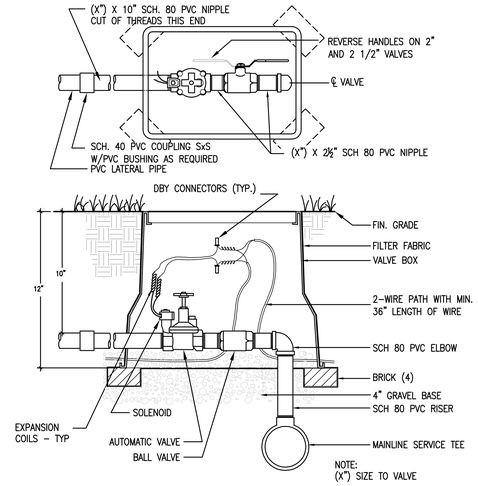
12 Tree Irrigation - Typical
NTS



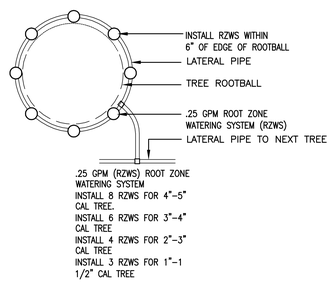
8 Typical Trenching Detail
NTS



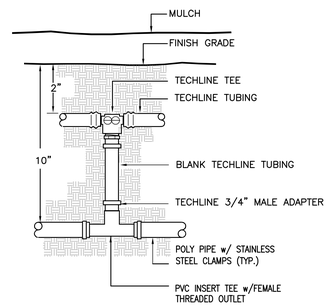
4 Typical "B" Supply Header @ Planter - Plan
NTS



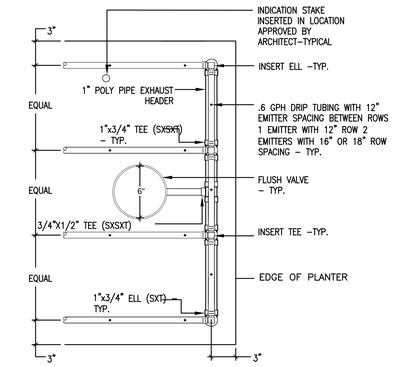
1 Automatic Valve Assembly - Lawn
NTS



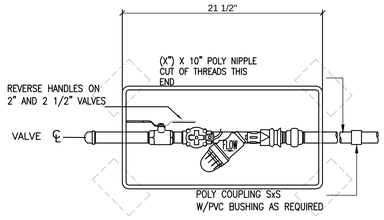
13 Tree Irrigation - Typical
NTS

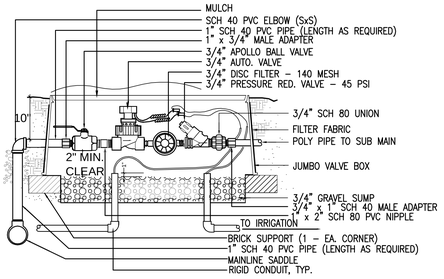


9 Drip Irrigation Center Start Connection- Typical
NTS

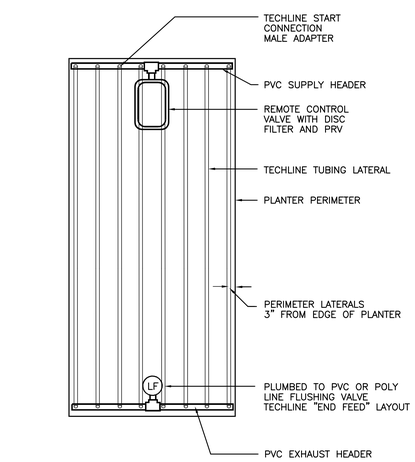


5 Typical "A" Exhaust Header @ Planter- Plan
NTS

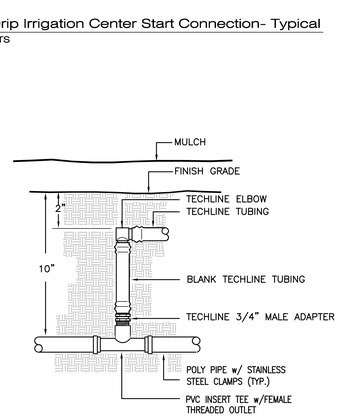




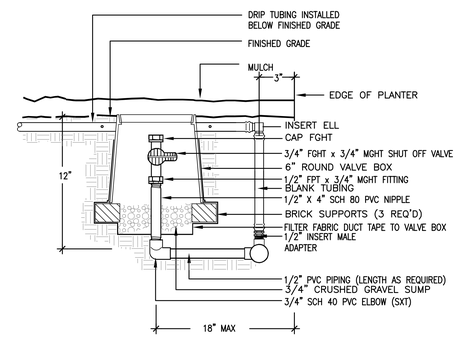
2 Automatic Valve Assembly - Drip
NTS



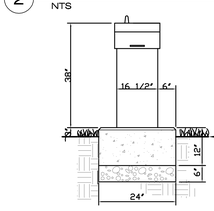
14 Drip Irrigation End Feed - Typical
NTS

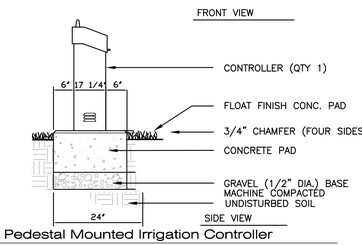


10 Drip Irrigation End Start Connection- Typical
NTS

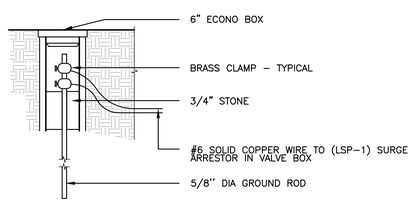


6 Typical "A" Exhaust Header @ Planter - Section
NTS

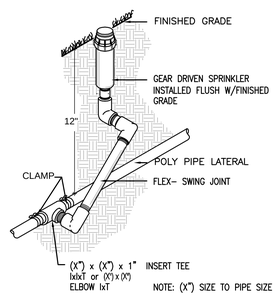




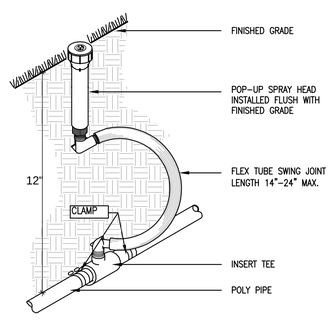
3 Pedestal Mounted Irrigation Controller
NTS



15 Grounding Rod- Typical
NTS



11 Rotor on Flexible Swing Joint
NTS



7 Pop - Up Spray Head
NTS

drawing title: IRRIGATION PLAN	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		volume: 1 of 2
REVISIONS			date: 09-21-11
mark / date / description: 11/18/11 100E Design Development; 5/1/12 50% Construction Documents; 6/29/12 90% Construction Documents; 8/16/12 100% Construction Documents; 11/21/12 Bid Documents	DRAWING PREPARED BY: Northern Designs LLC, 2089 Hartford Turnpike, North Haven, CT 06473		scale: NOT TO SCALE
	project: SCSU ACADEMIC LABORATORY BUILDING		drawn by: RE
			approved by: MJA
	CAD no.: 1300	project no.: BI-RS-283	drawing no.: IR-101

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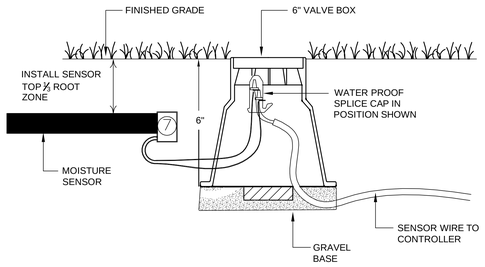
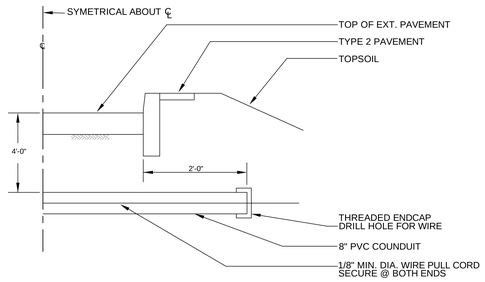
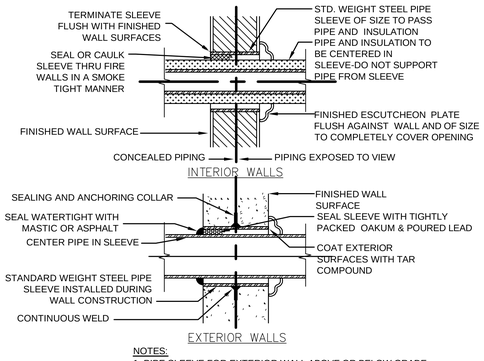


4 Moisture Sensor - Typical
NTS



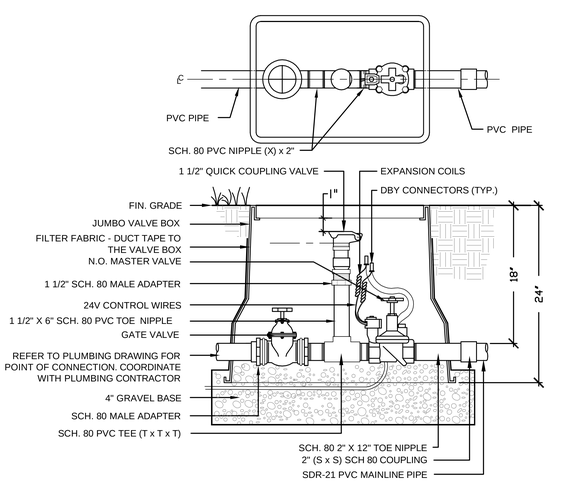
NOTE: PVC CONDUIT SHALL BE EXTRA STRENGTH.

5 Road Crossing
NTS



NOTES:
1. PIPE SLEEVE FOR EXTERIOR WALL ABOVE OR BELOW GRADE.
2. FOR GAS SERVICE, EXTEND SLEEVE 1" PAST INSIDE FACE OF & 4" PAST OUTSIDE FACE OF WALL.

6 Pipe Sleeve Thru Wall - Typical
NTS



7 ISOLATION VALVE/BLOW-OUT/MASTER VALVE ASSEMBLY
NTS

DESCRIPTION OF OPERATION:

PUMP WILL START VIA PRESSURE DROP SENSED IN WATER MAINLINE AND REGULATE A CONSTANT PRESSURE AT VARIABLE FLOW RATE. PUMP WILL RETIRE BASED UPON AN ADJUSTABLE MINIMUM WATER DEMAND (FLOW) AND SUSTAINED REGULATE PRESSURE.

WATER WILL BE DRAWN OUT OF TANK. ONCE USER ADJUSTABLE LEVEL SETPOINT IS SATISFIED THE CITY FILL VALVE WILL OPEN ALLOWING WATER
TO ENTER INTO THE STORAGE TANK. CITY WATER LEVEL CONTROLS WILL BE SET SO
TO MAINTAIN A LOW WATER LEVEL IN THE TANK, LEAVING THE MOST AMOUNT OF
ROOM TO HARVEST THE NEXT RAINFALL EVENT. IF TANK LEVEL CONTINUES TO
DROP WITH FILL VALVE OPEN, PUMP WILL SHUT DOWN ON LOW LEVEL ALARM.
PUMP WILL RE-ENABLE UPON USER ADJUSTABLE ALARM RE-SET LEVEL. FILL
VALVE WILL REMAIN OPEN AND OPERATE INDEPENDENTLY OF PUMP ALARM LOGIC.

PUMP SYSTEM WILL TOTALIZE ALL WATER PUMPED AND ALL CITY MAKE UP WATER USED.

AUTOMATIC DISCHARGE FILTRATION SHALL BE FLUSHED UPON (3) INPUTS.
DIFFERENTIAL PRESSURE, TOTAL GALLONS PUMPED, AND TIMED INTERVAL WHICHEVER
OCCURS FIRST. FILTER SHALL ALSO HAVE ALARM AFTER (3) FLUSH CYCLES AND
PRESSURE DIFFERENTIAL IS NOT RESTORED TO CLEAN SCREEN.

UV UNITS WILL BE ACTIVE 24/7 - 365. CHANGE BULB EVERY 365 DAYS. TIMER AND
ALARM ARE INCLUDED TO NOTIFY USER.

VERIFYING CITY WATER CAPACITY MUST SUPPLY A MIN 60 GPM TO TANK.

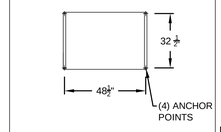
SYSTEM SHALL HAVE THE FOLLOWING ALARMS AT MINIMUM
-HIGH DISCHARGE PRESSURE
-LOW DISCHARGE PRESSURE
-VFD FAULT
-LOW LOW LEVEL SHUT DOWN (HARD FAULT)
-LOW LEVEL ALARM (SOFT FAULT)
-FILTER ALARM
-PIPE FILL ALARM (SYSTEM CAN NOT PRESSURIZE)
-LOSS OF PHASE OR PHASE REVERSAL
-HIGH VOLTAGE
-LOW VOLTAGE
-CONTROL POWER ALARM

CONTROL PANEL TO INCLUDE:
-COLOR TOUCHSCREEN OPERATOR INTERFACE
-FILTER CONTROLS AND DISPLAY
-FLOW SENSOR DISPLAY AND TOTALIZERS
-PSI DISPLAY AND SET POINTS
-AUTO RE-ENABLING OF PUMP BASED UPON WATER AVAILABILITY
-PUMP RUNNING STATUS & RUN-TIME HRS
-LEVEL CONTROLS AND DISPLAY IN "INCHES" & "GALLONS"
-USER ABILITY TO ADJUST ALL SYSTEM PARAMETERS
-VFD PRESSURE REGULATION FOR ENERGY EFFICIENCY
-BRANCH CIRCUIT PROTECTION
-U.L. 508 LISTED CONTROL PANEL ASSEMBLY
-PROGRAMABLE PLC "programable logic controller"
-NON-FUSABLE MAIN DISCONNECT
-HOA (hand, off, auto) SWITCH FOR PUMP
-SERIAL MODBUS PLC CAPABILITY

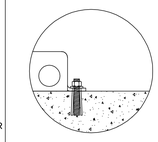
STATION COMPONENTS:
A 7.5HP PUMP AND MOTOR
B LOW LEVEL FLOAT
C PUMP DISCHARGE PIPE
D PRESSURE TRANSDUCER W/ GAUGE
E PUMP FLOW SENSOR
F DISCHARGE ISOLATION VALVE
G FILL FLOW SENSOR
H N/A
I HIGH VOLTAGE POWER BOX
J AUTOMATIC FILTER W/ 5 MICRON SCREEN
K LEVEL TRANSDUCER
L N/A
M NEMA 4x REMOTE DISCONNECT
N NEMA 4x LOW VOLTAGE ELECTRICAL J-BOX
O DISCONNECT SWITCH
P PAINTED STEEL BASE (GREEN)
Q HDPE SLED & FLOW INDUCER SLEEVE FOR MOTOR COOLING
R N/A
S N/A
T SOLENOID VALVE FOR TANK FILL
U PUMP INTAKE SCREEN
V RAINWATER FILTER W/ 350 MICRON SCREEN
W 40,000 GAL SKYHARVESTER BELOW GROUND TANK
X CHECK VALVE
Y QUICK DISCONNECT
Z 254nm UV UNIT

NOTES:
1. ALL WIRE AND CONDUIT FROM REMOTE COMPONENTS TO CONTROL PANEL BY CONTRACTOR

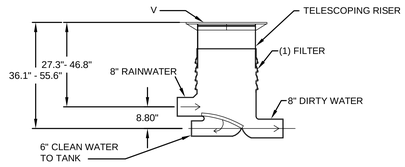
2. INSTALLATION OF PUMP EQUIPMENT SHALL BE BY EXPERIENCED AUTOMATIC PUMP/CONTROLS CONTRACTOR.



BASE LAYOUT



DETAIL A
CONCRETE ANCHOR BOLTS (x4) LOCATIONS



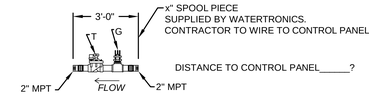
150 GPM max! @ 90% eff each

DETAIL D: RAINWATER FILTER(S)

ROOF AREA OF PROJECT: 14,000 SQ-FT

MAKE UP WATER BE GREATER THAN OR EQUAL TO THE MAX. DEMAND SEE BY THE PUMP STATION.

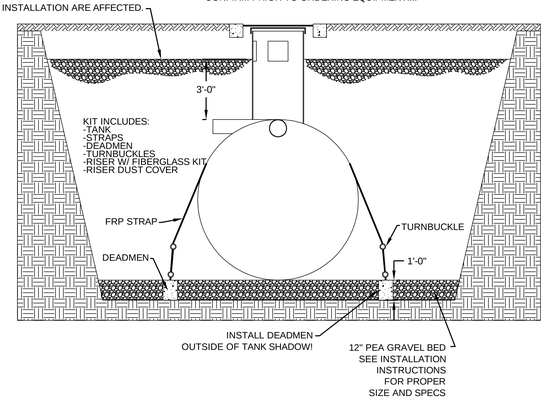
CONTROL WIRES AND CONDUIT TO CONTROL PANEL BY CONTRACTOR
SENSOR = 18AWG, 2 CONDUCTOR
SHIELDED VALVE = 14AWG, 2 CONDUCTOR



DETAIL B: POTABLE TANK FILL LINE DETAIL: NTS
INSTALL IN MECHANICAL ROOM OR OUTDOOR VALVE BOX (VALVE BOX MUST DRAIN TO PREVENT FLOODING)

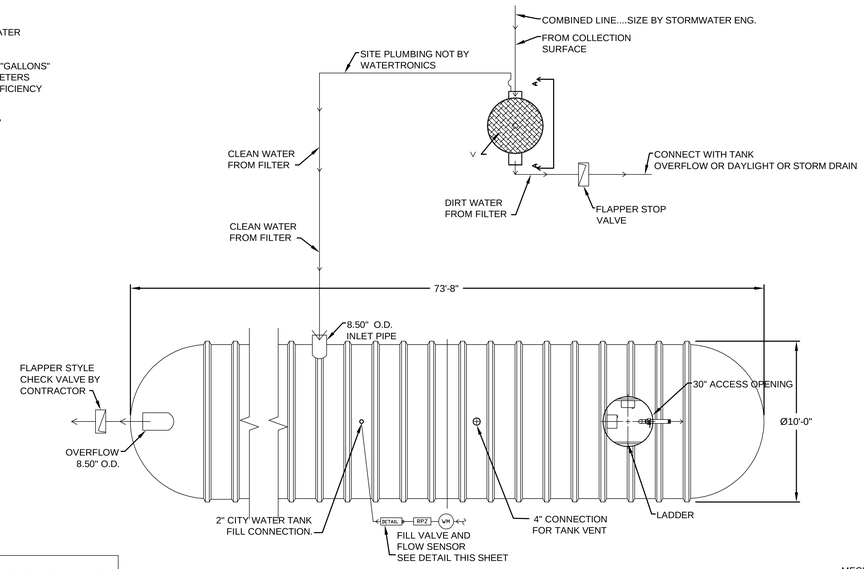
PEA GRAVEL TO THIS POINT FOR TRAFFIC LOADING OR ANTI-FLOATATION GIVEN NO PAVING. CONSULT FACTORY IF PAVING OVER TANK IS USED. LOAD AND FLOATATION CALCULATIONS AND INSTALLATION ARE AFFECTED.

NOTE: ELEVATIONS ARE ESTIMATES CONFIRM PRIOR TO ORDERING EQUIPMENT!!!!



1 Water Storage Tank Detail- Section B
NTS

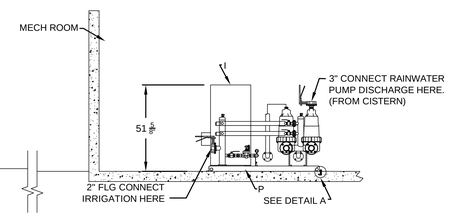
WIRE SCHDULE:
LEVEL SENSOR: 18AWG (2) COND. SHIELDED 500FT MAX
LEVEL FLOAT: 14AWG (2) COND.
FLOW SENSOR: 18AWG (2) COND. SHIELDED 500FT MAX
SOLENOID VALVE: 14AWG (2) COND.
MOTOR: 8AWG (3) COND. W/ GROUND



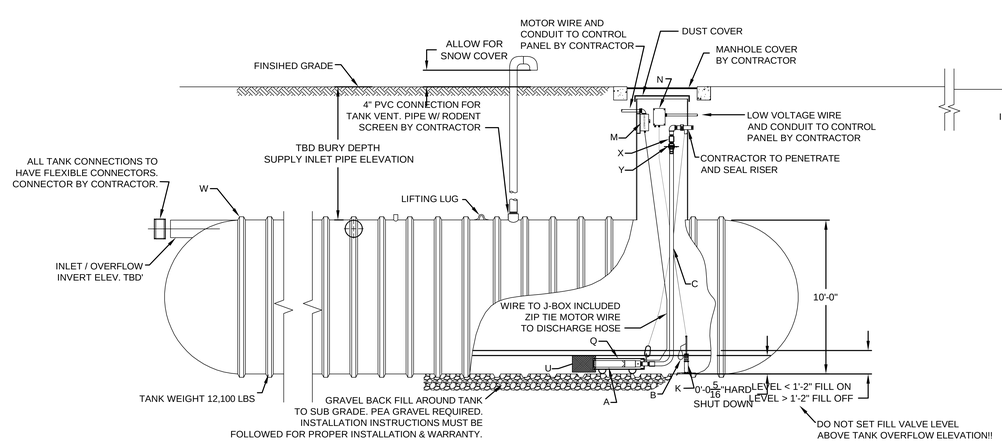
WATER HARVESTING PUMP SYSTEM SHALL BE PROVIDED BY A SINGLE SOURCE MFG. CONTACT NORTHERN DESIGNS LLC @ 203 239-2710

2 Water Storage Tank Detail
NTS

PLAN VIEW



ELEVATION VIEW



3 Water Storage Tank Detail - Section A
NTS

drawing title			STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES	volume
IRRIGATION PLAN				1 of 2
REVISIONS				
mark	date	description	DRAWING PREPARED BY Northern Designs LLC 2089 Hartford Turnpike North Haven, CT 06473	date 09-21-11
	11/18/11	100% Design Development		scale NOT TO SCALE
	5/1/12	50% Construction Documents		
	8/28/12	90% Construction Documents	project SCSU ACADEMIC LABORATORY BUILDING	drawn by RE
	8/30/12	100% Construction Documents		approved by MJA
	11/21/12	Bid Documents		drawing no. IR-102
			CAD no. 1300 / project no. BI-RS-283	

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PARTITION TYPES NOTES:

1. ALL PARTITION TYPES SHALL BE INSTALLED AS A SOUND PARTITION INCLUDING: FULL HEIGHT AND WIDTH SOUND BATT INSULATION, SOUND SEALANT AT PERIMETER OF ALL PENETRATIONS, AND SMOKE GASKETS AT HEAD AND JAMBS OF ALL DOORS, UNO. STAGGER GWB SEAMS WHERE MULTIPLE LAYERS OF GWB ARE USED. PROVIDE ELECTRIC OUTLET BOX BARRIER PADS IN PARTITIONS OF STC 50 OR GREATER. STC RATINGS SHOWN ON THIS SHEET ARE BASED ON PARTITIONS WITH SOUND INSULATION INSTALLED.

2. OFFSET STUDS AS NECESSARY TO ALIGN OUTSIDE FACES OF GWB AT ADJACENT WALL TYPES WITH VARYING LAYERS OF GWB.

3. SUBSTITUTE CEMENTITIOUS BACKER BOARD (CERTIFIED) IN LIEU OF GWB AT PUBLIC RESTROOMS AND AREAS INDICATED TO RECEIVE CERAMIC WALL TILE AS PER FINISH SCHEDULE.

4. PROVIDE DEEP LEG TRACKS AND U.L. RATED HEAD OF WALL DETAILS AT NON-LOAD BEARING WALLS FOR EACH RATED WALL CONDITION THAT ALLOW THE FOLLOWING DYNAMIC MOVEMENT CAPABILITIES: 1" OF UPWARD MOVEMENT AND 1" OF DOWNWARD MOVEMENT.

5. SUBCONTRACTOR SHALL CALCULATE GAUGE OF STEEL STUDS NECESSARY TO ENSURE MAXIMUM DEFLECTION OF L/240 AT 5 PSF FOR VERTICAL SPANS IF GAUGE NOT PROVIDED.

6. ALL STUDS SHALL BE FULL HEIGHT TO UNDERSIDE OF STRUCTURE UNLESS INDICATED OTHERWISE ON PLANS.

7. ALL PARTITIONS SHALL TERMINATE TO THE UNDERSIDE OF DECK ABOVE PER THE DETAILS LOCATED ON THIS SHEET. REFER TO STRUCTURAL DETAILS FOR ATTACHMENT METHODS.

8. PARTITIONS TERMINATING TO THE UNDERSIDE OF THE CONCRETE FLOOR ABOVE SHALL BE TREATED IN A SIMILAR FASHION AS THE METAL DECK TERMINATIONS.

9. ALL PARTITIONS SHALL BE INSTALLED WITH CONTINUOUS SILLS AFFIXED TO THE FLOOR SURFACE PER STRUCTURAL DETAILS. DETAILS LOCATED ON THIS SHEET IDENTIFY ACOUSTICAL AND OR FIRE SAFING CONCERNS FOR THE FRAMED WALL PARTITIONS.

10. EXTERIOR WALLS: REFER TO WALL SECTIONS FOR EXTERIOR WALL CONSTRUCTION. SEE STRUCTURAL FOR SIZING OR LOADS.

11. PROVIDE 18 GA. BOX HEADER METAL STUDS FOR ALL OPENINGS OVER 4'-0" AT NON-LOAD BEARING WALLS.

12. PROVIDE FIRE BLOCKING AND DRAFT STOPS PER CODE AND AS INDICATED ON DRAWINGS

13. PROVIDE .093 CONTROL JOINTS 30' O.C. AT STRAIGHT GWB WALLS (PER ASTM C 840 AND SPEC).

14. AT THE TOP, BOTTOM OR OTHER HORIZONTAL SHAFT LOCATIONS, PROVIDE RATED HORIZONTAL SHAFT WALL ASSEMBLY WITH ADDITIONAL LAYER OF GWB 5/8" TYPE "X" GWB PER W.H.I. TEST 694.0300.1 OR EQUAL.

15. PROVIDE FIRE-RATED ACCESS DOORS AND FRAMES TO REACH DAMPERS OR CONTROL VALVES IN RATED WALLS OR CEILING AS REQUIRED TO MAINTAIN RATING. REFER TO MECHANICAL DRAWINGS FOR VALVE LOCATIONS.

16. PROVIDE WALLS CAPABLE OF RESISTING THE PASSAGE OF SMOKE AS INDICATED ON CODE PLANS AND FLOOR PLANS WITH SMOKE SEAL AT TOP OF WALL.

17. PROVIDE CONTROL JOINTS IN CMU PER INDUSTRY STANDARDS. SOLID GROUT REINFORCED CELLS AS PER STRUCTURAL REQUIREMENTS. PROVIDE MASONRY JOINT REINFORCEMENT. PAINT CMU WALLS PER FINISH SCHEDULE.

18. PROVIDE MOISTURE RESISTANT GWB AT ALL RESTROOMS, BREAK ROOMS, AND AREAS AROUND SINKS.

19. PROVIDE IMPACT RESISTANT GWB AT LOADING DOCK AREA AND SERVICE CORRIDORS.

20. 20 GA METAL STUDS SHALL BE USED AT WALL HUNG CABINETRY AND PLUMBING FIXTURES. PROVIDE 20 GA METAL BACK-UP PLATES FOR IN WALL BLOCKING.

21. ALL EXPOSED FIRE RESISTANT JOINT OR ACOUSTICAL SEALANT AT THE TOPS OF ANY WALL PARTITION SHALL BE PAINTED WITH WALL COLOR, UNO.

22. REFER TO SPECIFICATIONS FOR PENETRATION FIRESTOPPING AND FIRE-RESISTIVE JOINT SYSTEMS.

PARTITION TYPES

PARTITION NAMING CONVENTION

METAL STUD SIZE

1	7/8"	HAT CHANNEL
2	1 5/8"	METAL STUD
3	2 1/2"	METAL STUD
4	3 5/8"	METAL STUD
6	6"	METAL STUD

WALL-TYPE

METAL STUD WALLS
- A (1) LAYER GWB ONE SIDE
- B (1) LAYER GWB EA SIDE
- C (2) LAYERS GWB ONE SIDE (1) LAYER GWB ONE SIDE
- D (2) LAYERS GWB EA SIDE

FURRING AND SPECIALTY WALLS
- F (1) LAYER GWB
- P PLUMBING PARTITION WALL
- O DOUBLE STUD WALL (2) LAYERS GWB EA SIDE
- R (1) LAYER GWB ONE SIDE STRUCTURAL CONCRETE ONE SIDE

CMU WALLS
- K EXPOSED CMU EA SIDE
- L (1) LAYER GWB ONE SIDE
- M (1) LAYER GWB EA SIDE
- Q (2) LAYERS GWB ONE SIDE EXPOSED CMU ONE SIDE

WALL RATING
- 1 (1) HOUR FIRE RATING
- 2 (2) HOUR FIRE RATING
- Y SMOKE PARTITION
- Z SMOKE BARRIER

LEGEND

#XR

= METAL STUD SIZE
X = WALL TYPE
R = WALL RATING

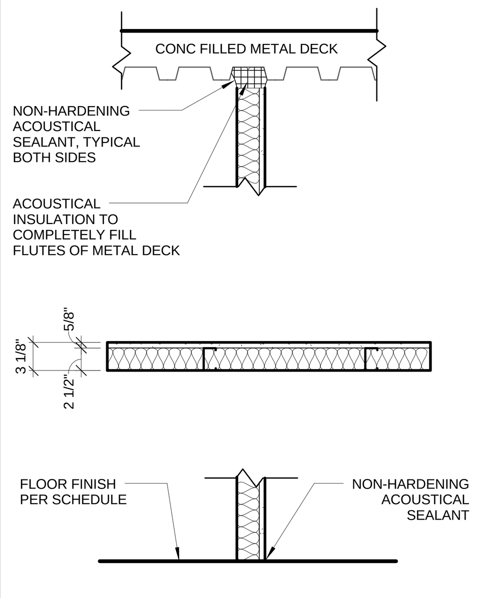
WALL TAG EXAMPLES

6B — 6 = 6" METAL STUD, B = WALL TYPE

4M — 4 = 4" METAL STUD (NOM), M = WALL TYPE

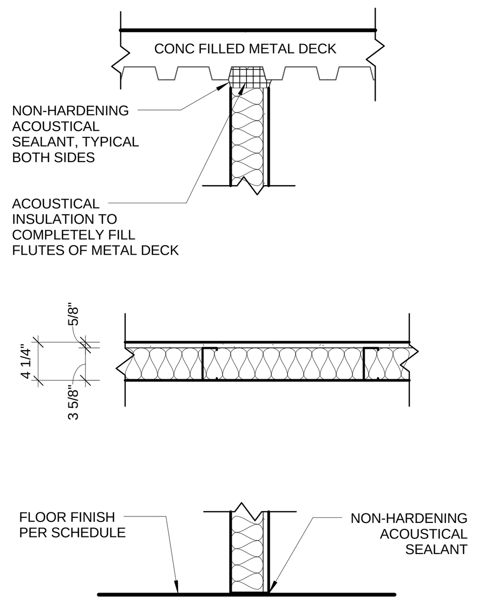
4L — 4 = 4" METAL STUD (NOM), L = WALL TYPE

4C — 4 = 4" METAL STUD (NOM), C = WALL TYPE



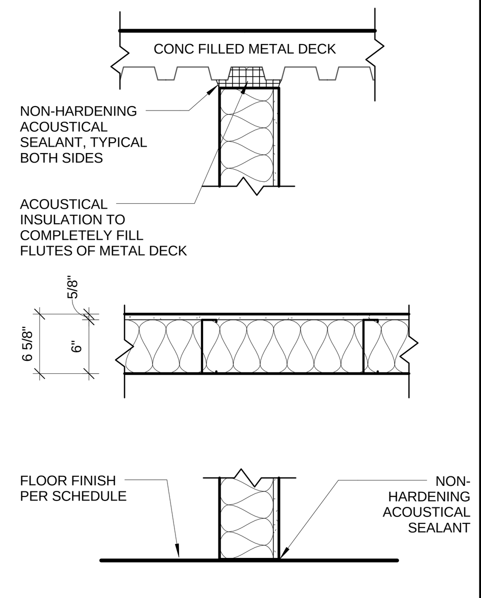
TYPE 3A (3A)
- ONE LAYER 5/8" TYPE X GWB ONE SIDE
- 2 1/2" METAL STUD
- BATT INSULATION TO FILL STUD CAVITY

METAL STUD SIZE	MAXIMUM STUD SPACING	DESIGN STC RATING	FIRE RATING	DESIGN NUMBER
2 1/2"	16"	N/A	N/A	N/A



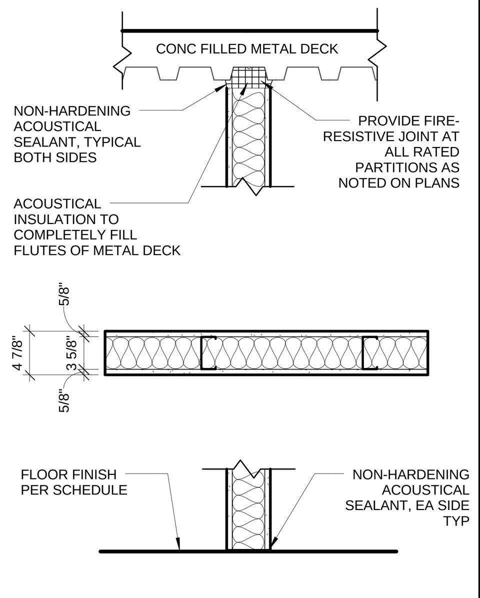
TYPE 4A (4A)
- ONE LAYER 5/8" TYPE X GWB ONE SIDE
- 3 5/8" METAL STUD
- BATT INSULATIO TO FILL STUD CAVITY

METAL STUD SIZE	MAXIMUM STUD SPACING	DESIGN STC RATING	FIRE RATING	DESIGN NUMBER
3 5/8"	16"	N/A	N/A	N/A



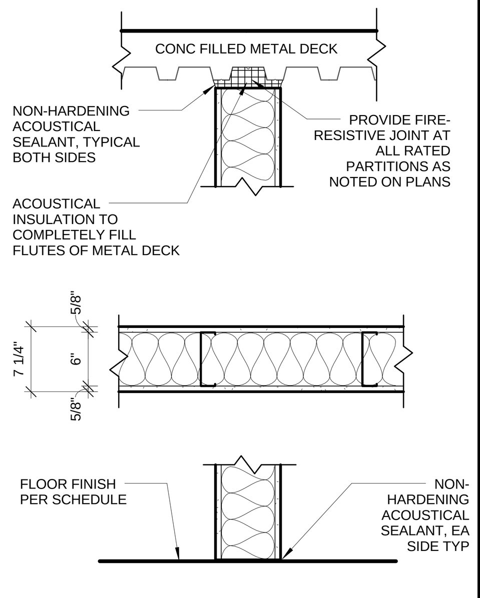
TYPE 6A (6A)
- ONE LAYER 5/8" TYPE X GWB ONE SIDE
- 6" METAL STUD
- BATT INSULATION TO FILL STUD CAVITY

METAL STUD SIZE	MAXIMUM STUD SPACING	DESIGN STC RATING	FIRE RATING	DESIGN NUMBER
6"	16"	N/A	N/A	N/A



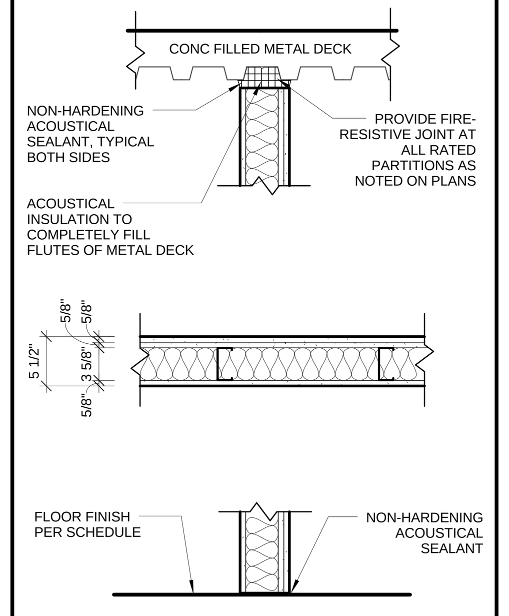
TYPE 4B (4B)
- ONE LAYER 5/8" TYPE X GWB EA SIDE
- 3 5/8" METAL STUD
- BATT INSULATION TO FILL STUD CAVITY

METAL STUD SIZE	MAXIMUM STUD SPACING	DESIGN STC RATING	FIRE RATING (WHERE INDICATED)	DESIGN NUMBER (WHERE INDICATED)
3 5/8"	16"	42	1 HRS	UL V450



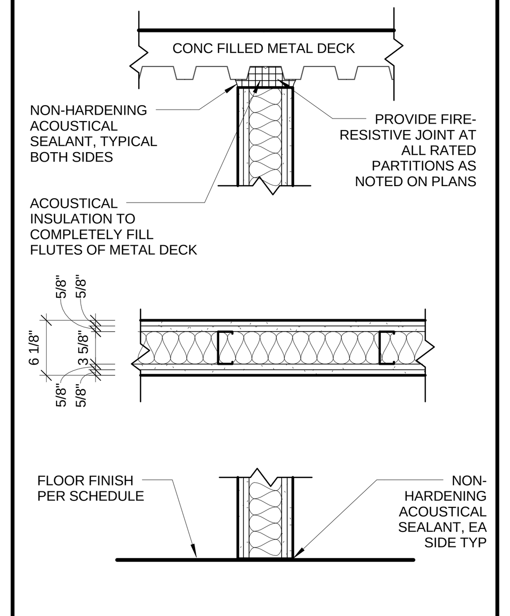
TYPE 6B (6B)
- ONE LAYER 5/8" TYPE X GWB EA SIDE
- 6" METAL STUD
- BATT INSULATION TO FILL STUD CAVITY

METAL STUD SIZE	MAXIMUM STUD SPACING	DESIGN STC RATING	FIRE RATING (WHERE INDICATED)	DESIGN NUMBER (WHERE INDICATED)
6"	16"	42	1 HRS	UL V450



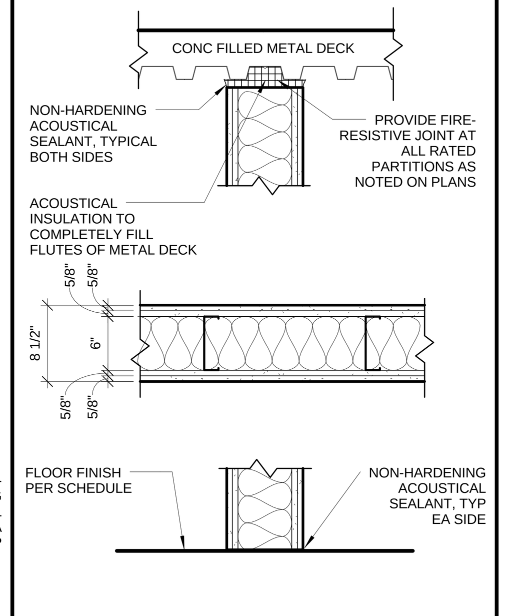
TYPE 4C (4C)
- TWO LAYERS 5/8" TYPE X GWB ONE SIDE
- ONE LAYER 5/8" TYPE X GWB OTHER SIDE
- 3 5/8" METAL STUD
- BATT INSULATION TO FILL STUD CAVITY

METAL STUD SIZE	MAXIMUM STUD SPACING	DESIGN STC RATING	FIRE RATING (WHERE INDICATED)	DESIGN NUMBER (WHERE INDICATED)
3 5/8"	16"	45	1 HR	UL V450



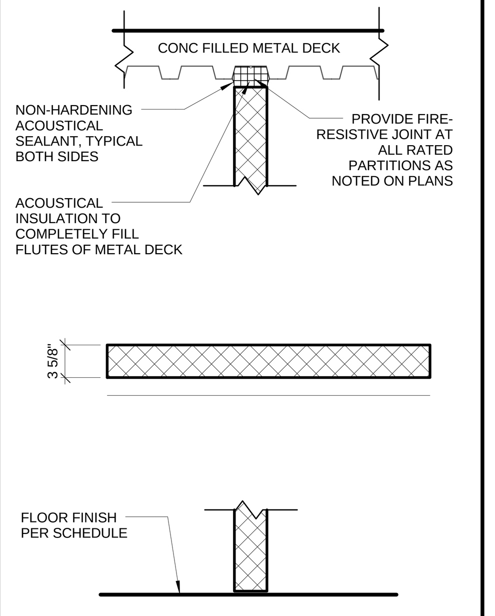
TYPE 4D (4D)
- TWO LAYERS 5/8" TYPE X GWB EA SIDE
- 3 5/8" METAL STUD
- BATT INSULATION TO FILL STUD CAVITY

METAL STUD SIZE	MAXIMUM STUD SPACING	DESIGN STC RATING	FIRE RATING (WHERE INDICATED)	DESIGN NUMBER (WHERE INDICATED)
3 5/8"	16"	50	2 HRS	UL V450



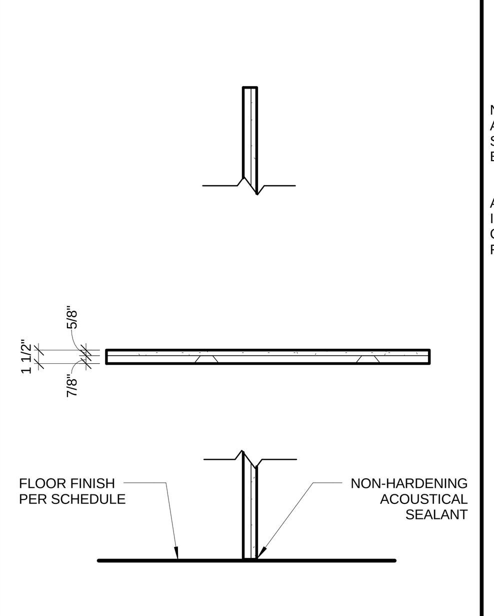
TYPE 6D (6D)
- TWO LAYERS 5/8" TYPE X GWB EA SIDE
- 6" METAL STUD
- BATT INSULATION TO FILL STUD CAVITY

METAL STUD SIZE	MAXIMUM STUD SPACING	DESIGN STC RATING	FIRE RATING (WHERE INDICATED)	DESIGN NUMBER (WHERE INDICATED)
6"	16"	50	2 HRS	UL V450



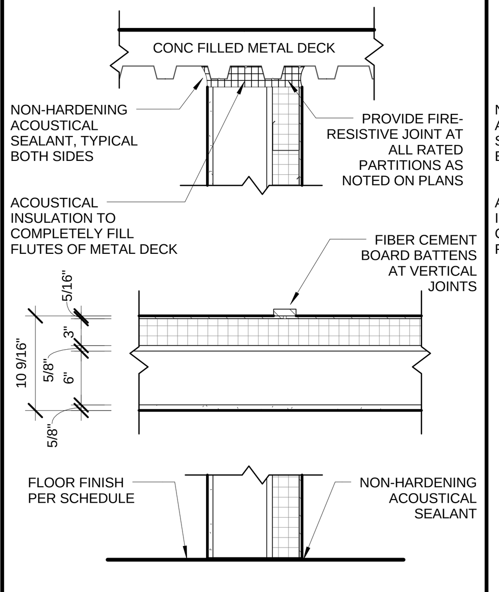
TYPE E (E)
- 3 5/8" CMU EXPOSED EA SIDE

CMU UNIT SIZE	METAL STUD SIZE	DESIGN STC RATING	FIRE RATING (WHERE INDICATED)	DESIGN NUMBER (WHERE INDICATED)
3 5/8"	N/A	44	N/A	N/A



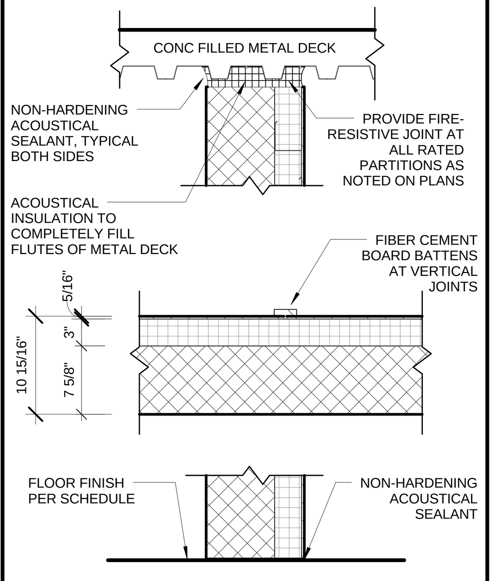
TYPE 1F (1F)
- ONE LAYER 5/8" TYPE X GWB ONE SIDE
- 7/8" HAT CHANNEL

METAL STUD SIZE	MAXIMUM STUD SPACING	DESIGN STC RATING	FIRE RATING	DESIGN NUMBER
7/8"	16"	N/A	N/A	N/A



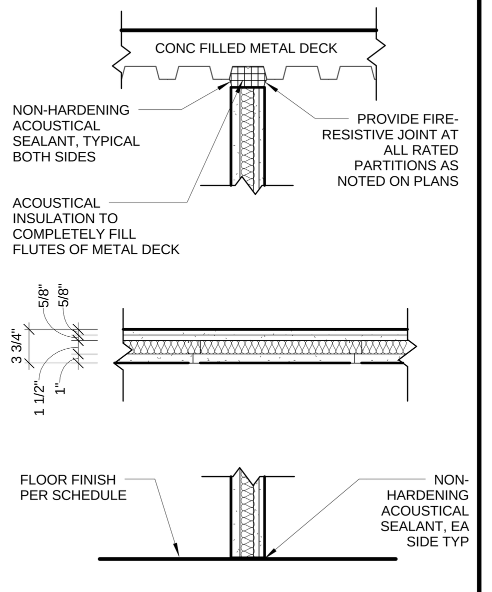
TYPE 6G (6G)
- ONE LAYER 5/16" PAINTED CEMENT BOARD ONE SIDE
- 3" RIGID INSULATION WITH 3" X 3" Z FURRING CHANNELS
- VAPOR BARRIER
- 5/8" GLASS FIBER REINFORCED BOARD
- 6" METAL STUD
- ONE LAYER 5/8" TYPE X GWB ONE SIDE

METAL STUD SIZE	MAXIMUM STUD SPACING	DESIGN STC RATING	FIRE RATING (WHERE INDICATED)	DESIGN NUMBER (WHERE INDICATED)
6"	16"		N/A	N/A



TYPE 8G (8G)
- ONE LAYER 5/16" PAINTED CEMENT BOARD ONE SIDE
- 3" RIGID INSULATION WITH 3" X 3" Z FURRING CHANNELS
- VAPOR BARRIER
- 7 5/8" CMU EXPOSED ONE SIDE
- LOAD BEARING AS NOTED ON STRUCTURAL

CMU UNIT SIZE	METAL STUD SIZE	DESIGN STC RATING	FIRE RATING (WHERE INDICATED)	DESIGN NUMBER (WHERE INDICATED)
7 5/8"	3"		2 HRS	UL U905



TYPE H2 (H2)
- TWO LAYERS 5/8" TYPE X GWB ON FINISHED SIDE
- 2 1/2" C-H TYPE METAL STUD
- ONE LAYER 1" GWB LINER ON SHAFT SIDE
- BATT INSULATION TO FILL STUD CAVITY

METAL STUD SIZE	MAXIMUM STUD SPACING	DESIGN STC RATING	FIRE RATING (WHERE INDICATED)	DESIGN NUMBER (WHERE INDICATED)
2 1/2"	24"	48	2 HRS	UL U415

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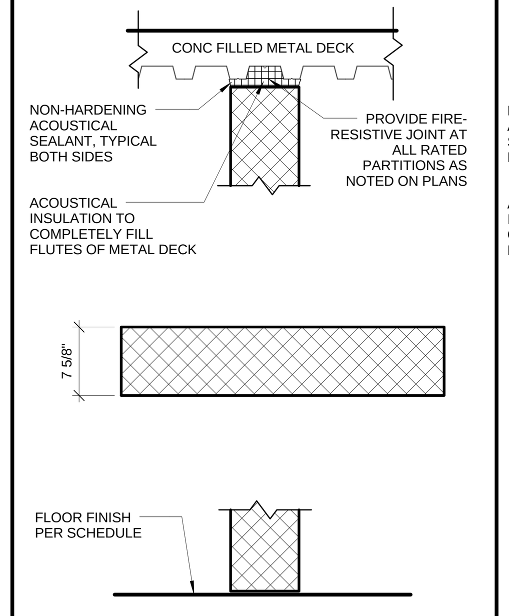
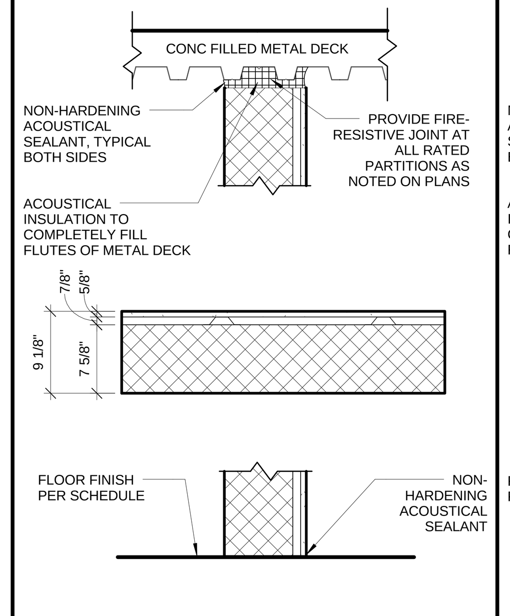


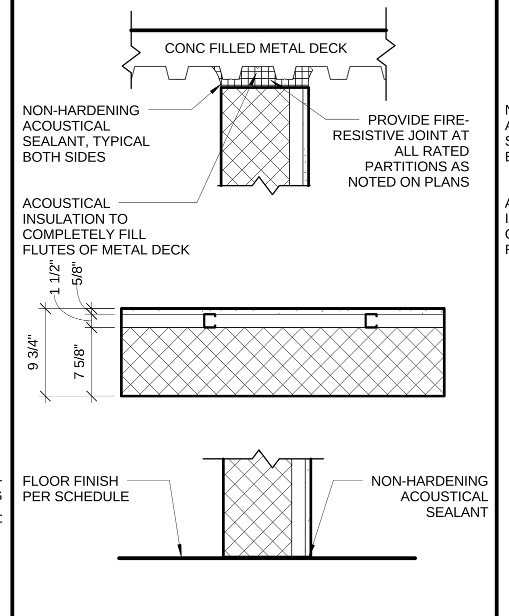
TYPE K (K)
- 7 5/8" CMU EXPOSED EA SIDE
- LOAD BEARING AS NOTED ON STRUCTURAL

CMU UNIT SIZE	METAL STUD SIZE	DESIGN STC RATING	FIRE RATING (WHERE INDICATED)	DESIGN NUMBER (WHERE INDICATED)
7 5/8"	N/A	45	2 HRS	UL U905



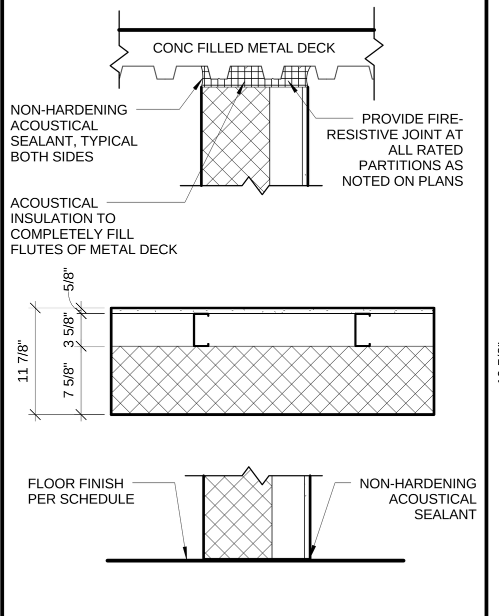
TYPE 1L (1L)
- ONE LAYER 5/8" TYPE X GWB ONE SIDE
- 7/8" HAT CHANNEL
- 7 5/8" CMU EXPOSED ONE SIDE
- LOAD BEARING AS NOTED ON STRUCTURAL

CMU UNIT SIZE	METAL STUD SIZE	DESIGN STC RATING	FIRE RATING (WHERE INDICATED)	DESIGN NUMBER (WHERE INDICATED)
7 5/8"	7/8"	48	2 HRS	UL U905



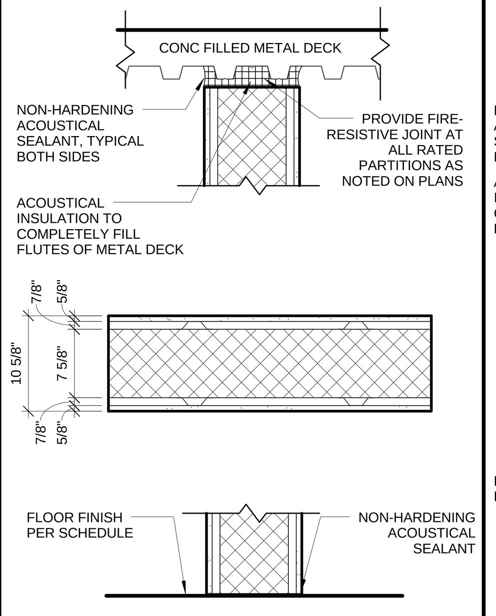
TYPE 2L (2L)
- ONE LAYER 5/8" TYPE X GWB ONE SIDE
- 1 1/2" METAL STUD
- 7 5/8" CMU EXPOSED ONE SIDE
- LOAD BEARING AS NOTED ON STRUCTURAL

CMU UNIT SIZE	METAL STUD SIZE	DESIGN STC RATING	FIRE RATING (WHERE INDICATED)	DESIGN NUMBER (WHERE INDICATED)
7 5/8"	1 1/2"	48	2 HRS	UL U905



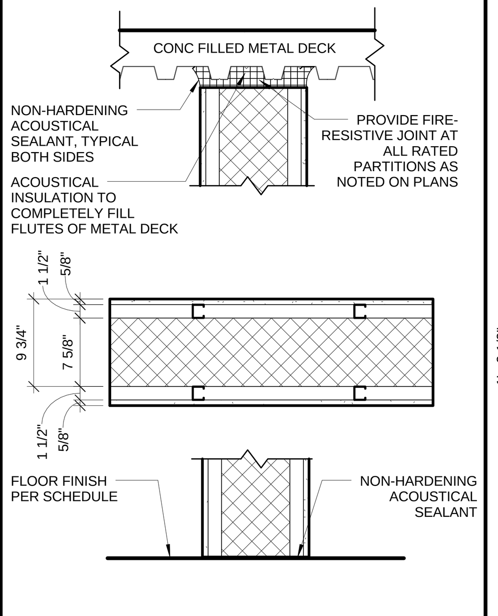
TYPE 4L (4L)
- ONE LAYER 5/8" TYPE X GWB ONE SIDE
- 3 5/8" METAL STUD
- 7 5/8" CMU EXPOSED ONE SIDE
- LOAD BEARING AS NOTED ON STRUCTURAL

CMU UNIT SIZE	METAL STUD SIZE	DESIGN STC RATING	FIRE RATING (WHERE INDICATED)	DESIGN NUMBER (WHERE INDICATED)
7 5/8"	3 5/8"	48	2 HRS	UL U905



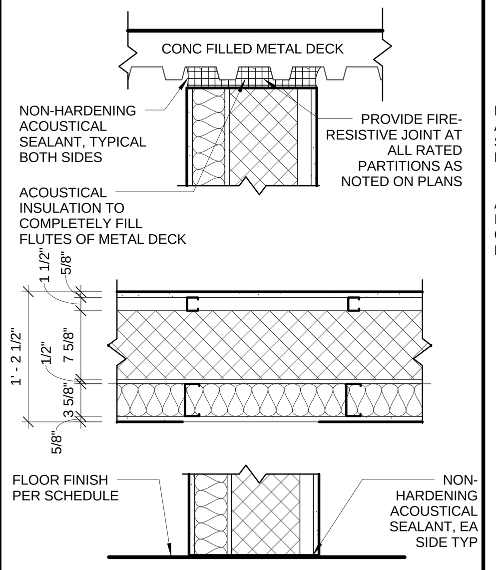
TYPE M (1M)
- ONE LAYER 5/8" TYPE X GWB EA SIDE
- 7 5/8" CMU
- 7/8" HAT CHANNEL EA SIDE

CMU UNIT SIZE	METAL STUD SIZE	DESIGN STC RATING	FIRE RATING (WHERE INDICATED)	DESIGN NUMBER (WHERE INDICATED)
7 5/8"	7/8"	50	2 HRS	UL U905



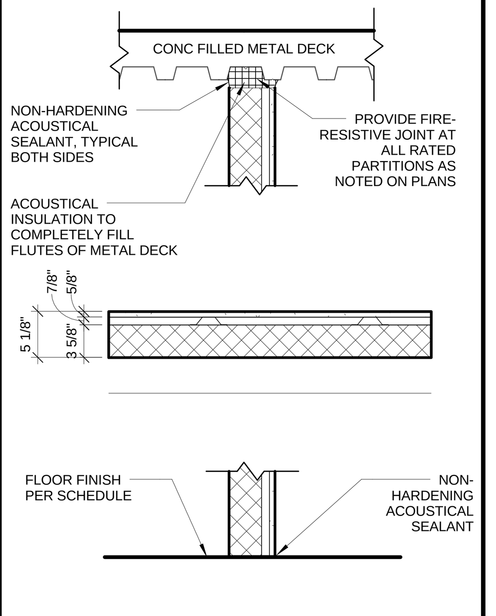
TYPE 2M (2M)
- ONE LAYER 5/8" TYPE X GWB EA SIDE
- 7 5/8" CMU
- 1 1/2" METAL STUD EA SIDE

CMU UNIT SIZE	METAL STUD SIZE	DESIGN STC RATING	FIRE RATING (WHERE INDICATED)	DESIGN NUMBER (WHERE INDICATED)
7 5/8"	1 1/2"	50	2 HRS	UL U905



TYPE 4M (4M)
- ONE LAYER 5/8" TYPE X GWB EA SIDE
- 1 1/2" METAL STUD ONE SIDE
- 7 5/8" CMU
- 1/2" AIR SPACE
- 3 5/8" METAL STUD ONE SIDE
- BATT INSULATION TO FILL STUD CAVITY

CMU UNIT SIZE	METAL STUD SIZE	DESIGN STC RATING	FIRE RATING (WHERE INDICATED)	DESIGN NUMBER (WHERE INDICATED)
7 5/8"	3 5/8"	55	2 HRS	UL U905



TYPE 1N (1N)
- ONE LAYER 5/8" TYPE X GWB ONE SIDE
- 7/8" HAT CHANNEL
- 3 5/8" CMU EXPOSED ONE SIDE

CMU UNIT SIZE	METAL STUD SIZE	DESIGN STC RATING	FIRE RATING (WHERE INDICATED)	DESIGN NUMBER (WHERE INDICATED)
3 5/8"	7/8"	44	N/A	N/A

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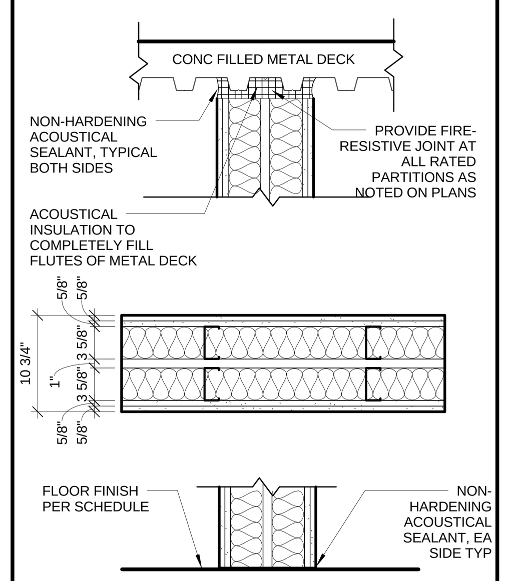
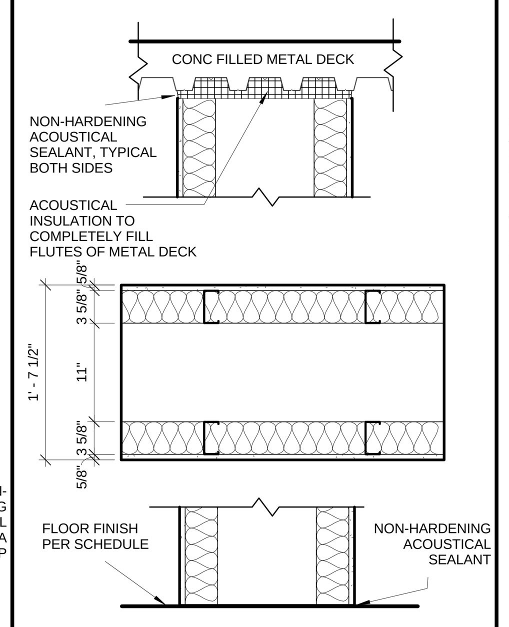


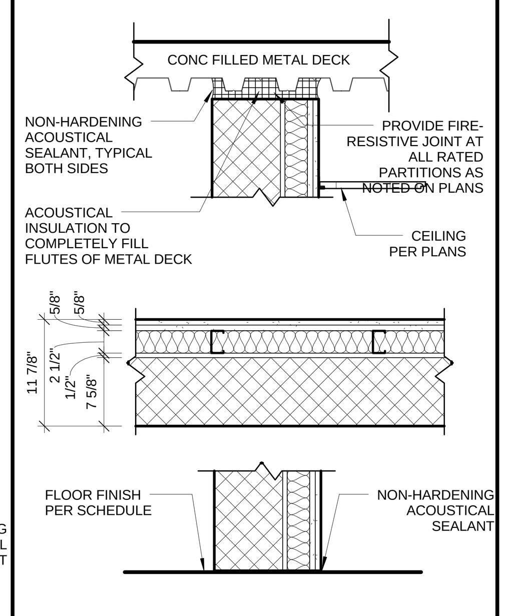
TYPE O (4O)
- TWO LAYERS 5/8" TYPE X GWB EA SIDE
- 3 5/8" METAL STUD
- 1" AIR SPACE
- 3 5/8" METAL STUD
- BATT INSULATION TO FILL STUD CAVITY
- LATERAL BRACING CHANNELS WELDED TO STUDS AT CUT OUTS
- BRACING BETWEEN SEPARATE STUD WALLS IS NOT PERMITTED

METAL STUD SIZE	MAXIMUM STUD SPACING	DESIGN STC RATING	FIRE RATING (WHERE INDICATED)	DESIGN NUMBER (WHERE INDICATED)
3 5/8"	16"	55	2 HRS	UL U493



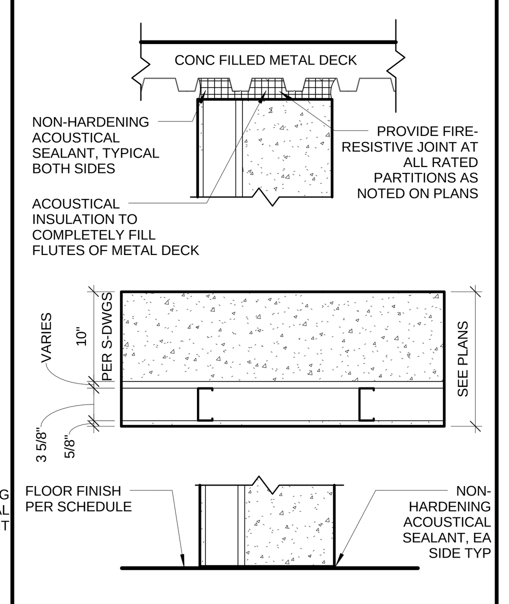
TYPE P (P)
- ONE LAYER 5/8" TYPE X GWB EA SIDE
- 3 5/8" METAL STUD
- 11" AIR SPACE
- BATT INSULATION TO FILL STUD CAVITY

METAL STUD SIZE	MAXIMUM STUD SPACING	DESIGN STC RATING	FIRE RATING	DESIGN NUMBER
3 5/8"	16"	50	N/A	N/A



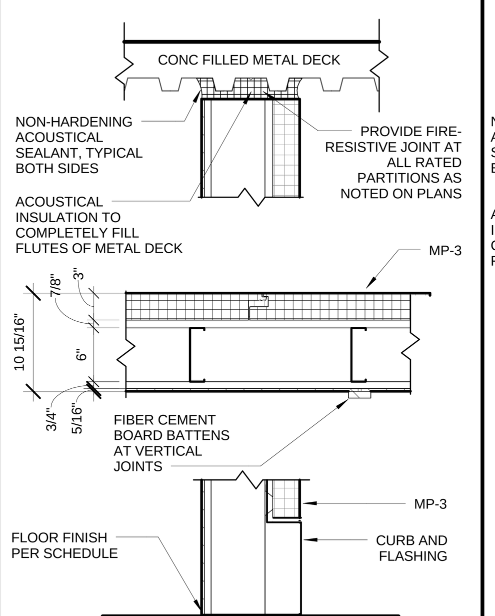
TYPE 3Q (3Q)
- TWO LAYERS 5/8" TYPE X GWB ONE SIDE
- 2 1/2" METAL STUD
- BATT INSULATIO TO FILL STUD CAVITY
- 1/2" AIR SPACE
- 7 5/8" CMU EXPOSED ONE SIDE

CMU UNIT SIZE	METAL STUD SIZE	DESIGN STC RATING	FIRE RATING (WHERE INDICATED)	DESIGN NUMBER (WHERE INDICATED)
7 5/8"	2 1/2"	55+	2 HRS	UL U905



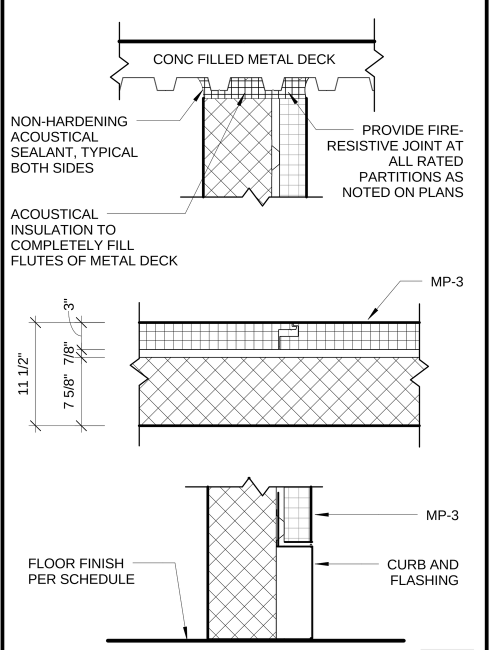
TYPE 4R (4R)
- ONE LAYER 5/8" TYPE X GWB ONE SIDE
- 3 5/8" METAL STUD ONE SIDE
- AIR SPACE, WIDTH VARIES - SEE PLANS
- 10" POURED IN PLACE CONC LOAD BEARING PER STRUCTURAL-DWGS

CONC WALL SIZE	METAL STUD SIZE	DESIGN STC RATING	FIRE RATING (WHERE INDICATED)	DESIGN NUMBER (WHERE INDICATED)
10"	3 5/8"	55	2 HRS	UL U905



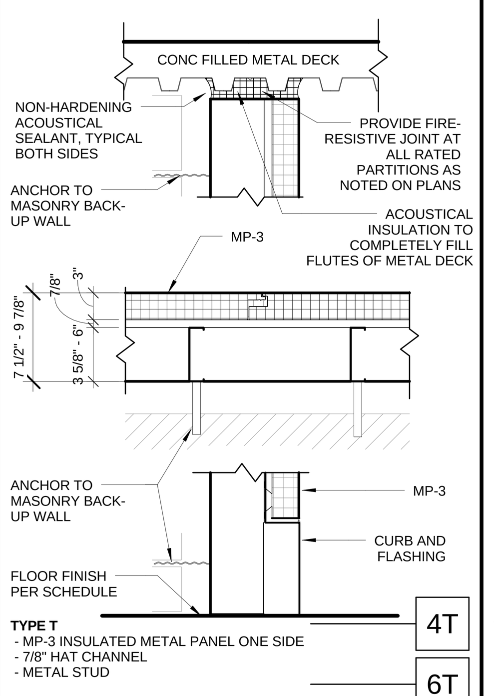
TYPE 6S (6S)
- MP-3 INSULATED METAL PANEL ONE SIDE
- 7/8" HAT CHANNEL
- 6" METAL STUD
- 3/4" FIRE-RATED PLYWOOD
- ONE LAYER 5/16" PAINTED CEMENT BOARD ONE SIDE

METAL STUD SIZE	MAXIMUM STUD SPACING	DESIGN STC RATING	FIRE RATING (WHERE INDICATED)	DESIGN NUMBER (WHERE INDICATED)
6"	16"		N/A	N/A



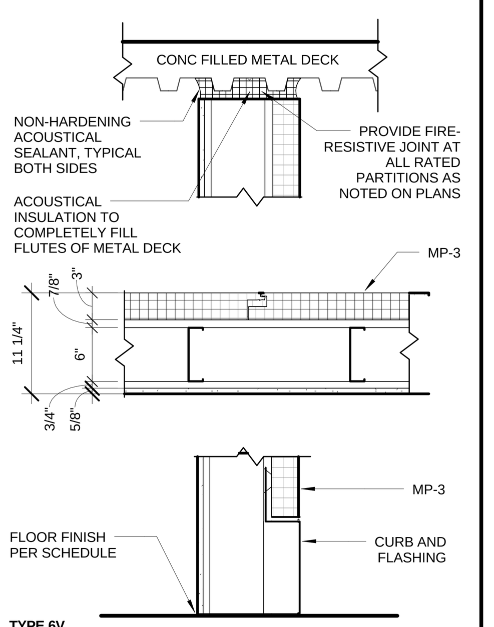
TYPE 8S (8S)
- MP-3 INSULATED METAL PANEL ONE SIDE
- 7/8" HAT CHANNEL
- 7 5/8" CMU EXPOSED ONE SIDE

CMU UNIT SIZE	METAL STUD SIZE	DESIGN STC RATING	FIRE RATING (WHERE INDICATED)	DESIGN NUMBER (WHERE INDICATED)
7 5/8"	7/8"		2 HRS	UL U905



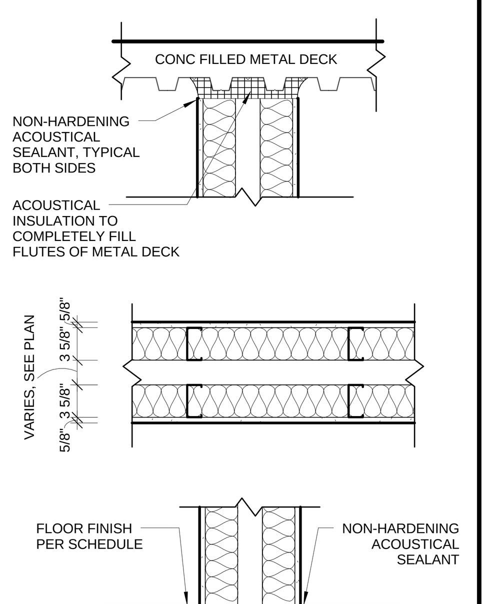
TYPE T (4T) (6T)
- MP-3 INSULATED METAL PANEL ONE SIDE
- 7/8" HAT CHANNEL
- METAL STUD

METAL STUD SIZE	MAXIMUM STUD SPACING	DESIGN STC RATING	FIRE RATING (WHERE INDICATED)	DESIGN NUMBER (WHERE INDICATED)
3 5/8" (4T) 6" (6T)	16"		N/A	N/A



TYPE 6V (6V)
- MP-3 INSULATED METAL PANEL ONE SIDE
- 7/8" HAT CHANNEL
- 6" METAL STUD
- 3/4" FIRE-RATED PLYWOOD
- ONE LAYER 5/8" TYPE X GWB ONE SIDE

METAL STUD SIZE	MAXIMUM STUD SPACING	DESIGN STC RATING	FIRE RATING (WHERE INDICATED)	DESIGN NUMBER (WHERE INDICATED)
6"	16"		N/A	N/A

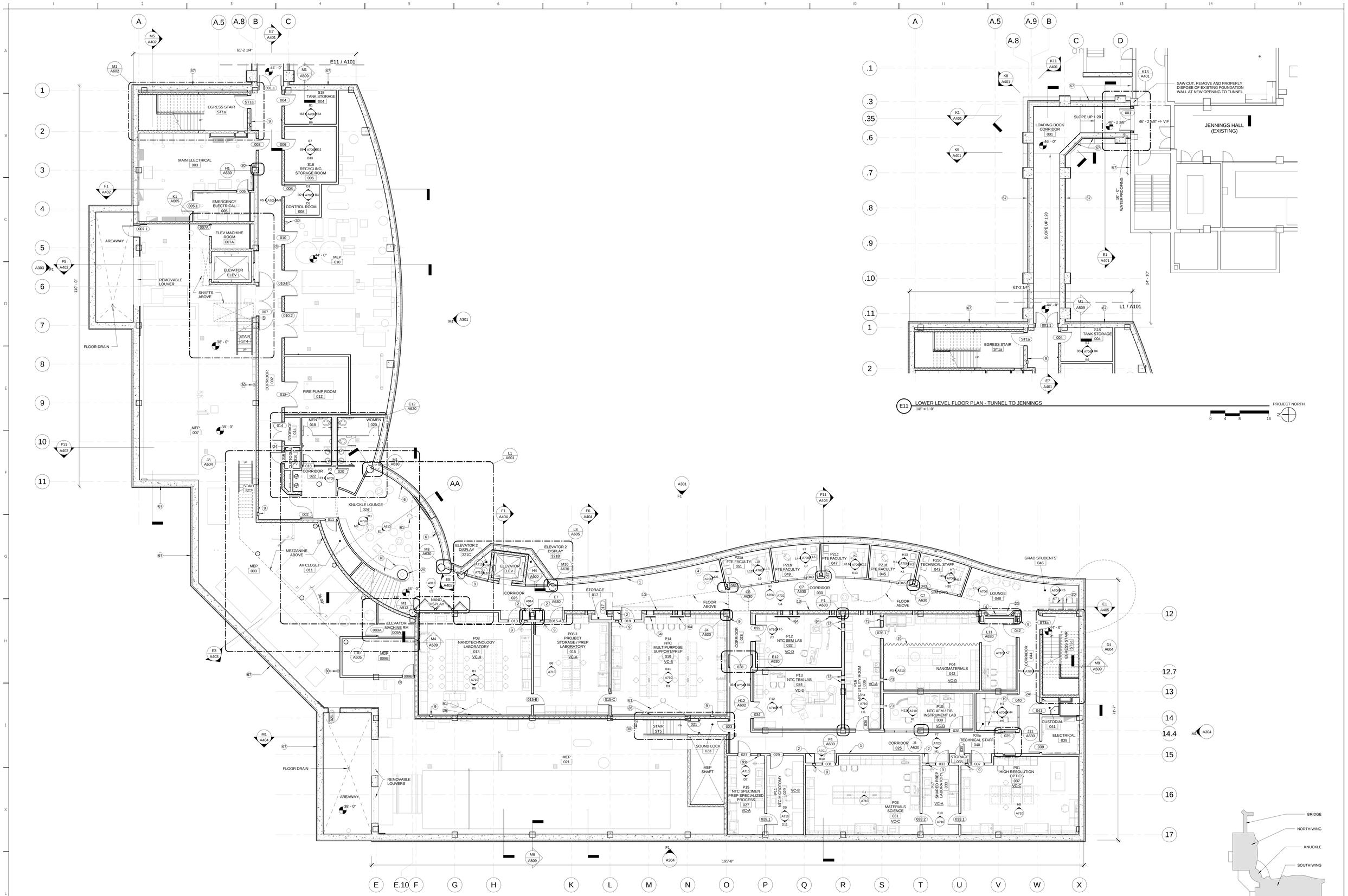


TYPE 4W (4W)
- ONE LAYER 5/8" TYPE X GWB EA SIDE
- 3 5/8" METAL STUD
- AIR SPACE, WIDTH VARIES, SEE PLAN
- BATT INSULATION TO FILL STUD CAVITY

METAL STUD SIZE	MAXIMUM STUD SPACING	DESIGN STC RATING	FIRE RATING (WHERE INDICATED)	DESIGN NUMBER (WHERE INDICATED)
3 5/8"	24"	50	N/A	N/A

drawing title	PARTITION SCHEDULE AND GENERAL NOTES
REVISIONS — mark / date / description	11-21-2012 Bid Documents
	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES
DRAWING PREPARED BY	Centerbrook Architects and Planners, LLP 67 Main Street Post Office Box 955 Centerbrook, Connecticut 06409-0955
project	SCSU NEW ACADEMIC LABORATORY BUILDING
CAD no.	1393
project no.	BI-RS-283
volume	1 of 2
date	11-21-2012
scale	1" = 1'-0"
drawn by	EL/PM/AS
approved by	RM/JBR
drawing no.	A100

C:\Revit Local Files\1393 SCSU New Academic and Laboratory Building A12 Central_Graph.rvt 11/21/2012 11:40:20 AM

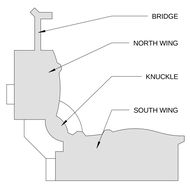


L1 LOWER LEVEL FLOOR PLAN (26,458 GSF)
1/8" = 1'-0"

PROJECT NORTH

E11 LOWER LEVEL FLOOR PLAN - TUNNEL TO JENNINGS
1/8" = 1'-0"

PROJECT NORTH



KEYED NOTES

1. LINOLEUM RESILIENT TACK BOARD
2. GLASS DISPLAY CASE. REFERENCE SHEET A914.
3. VISUAL DISPLAY DRY-ERASE WALL COVERING WITH CHAIR RAIL BELOW
4. TV SCREEN
5. SEISMIC JOINT
6. WALL COVERING ABOVE MARKER WALL COVERING
7. GUARDRAIL WITH LAMINATED GLAZING
8. MANUAL OPERATED ROLLER SHADES AT WINDOWS
9. FIRE EXTINGUISHER AND FIRE EXTINGUISHER CABINET
10. ROCK DISPLAY - SEE DETAIL ON A913
11. ANNUNCIATOR PANEL
12. LOCKERS WITH OWNER PROVIDED PAD LOCKS
13. WALLCOVERING
14. MOTORIZED ROLLER SHADES AT WINDOWS
15. LIGHT BLOCK/DARKENING CURTAINS
16. LASER CURTAINS
17. PROJECTOR AND ELECTRIC PROJECTOR SCREEN
18. WOOD BENCH - SEE DETAIL A900-SERIES
19. COUNTERTOP - SEE DETAIL A900-SERIES
20. STUDY CARRELS - SEE DETAIL A900-SERIES
21. COUNTERTOP AND SHELF - SEE DETAIL A900-SERIES
22. BASE CABINET WITH COUNTERTOP AND UPPER CABINETS - SEE DETAILS A900-SERIES
23. BASE CABINET WITH COUNTERTOP - SEE DETAILS A900-SERIES
24. SHELVES - SEE DETAILS A900-SERIES
25. FIXED CLASSROOM TABLES - SEE DETAILS A900-SERIES
26. VISUAL DISPLAY DRY-ERASE BOARD
27. SOUND-ABSORBING WALL PANELS
28. RIVER ROCK BALLAST.
29. NANO TUBE LIGHT FIXTURE - SEE DETAILS ON A715
30. FIRE EXTINGUISHER ON WALL MOUNTED BRACKET
31. COUNTER TOP SHELF - SEE DETAIL A900-SERIES
32. PERCHLORIC FUME HOOD EXHAUSTS - SEE MEP
33. ROOF DRAIN
34. SMOKE CONTROL EXHAUST FAN - SEE MEP
35. ROOF HATCH
36. POWER AND DATA FOR TELESCOPE - SEE MEP
37. SCUPPER
38. LIGHT FIXTURES MOUNTED ON ROOF SIDE OF PARAPET. FIELD COORDINATE LOCATIONS WITH ARCHITECTS
39. DOWNSPOUT AND FINIAL
40. ECONOMIZER RELIEF - SEE MEP
41. FUME HOOD EXHAUSTS - SEE MEP
42. CHAIN LINK ENCLOSURE EXTENDED TO STRUCTURE ABOVE WITH 10' TALL GATE FOR TELESCOPE EQUIPMENT
43. DOWNSPOUT
44. WALL MOUNTED LIGHT FIXTURE BELOW - SEE MEP
45. METAL GUARDRAIL
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47. SNOW GUARDS
48. GUTTER SYSTEM
49. GUTTER, DOWNSPOUT AND SPLASH BLOCK ON WALKWAY PAD
50. VENT PIPE - SEE MEP
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76. OPENING AT BASE OF PARAPET WALL

VC-# NOTES A VIBRATION SENSITIVE ROOM WITH VIBRATION CRITERION CURVE (ASHRAE TC 2.6) VC-A, VC-B, VC-C, OR VC-D

drawing title	LOWER LEVEL FLOOR PLAN
REVISIONS	
mark / date / description	11-21-2012 Bid Documents

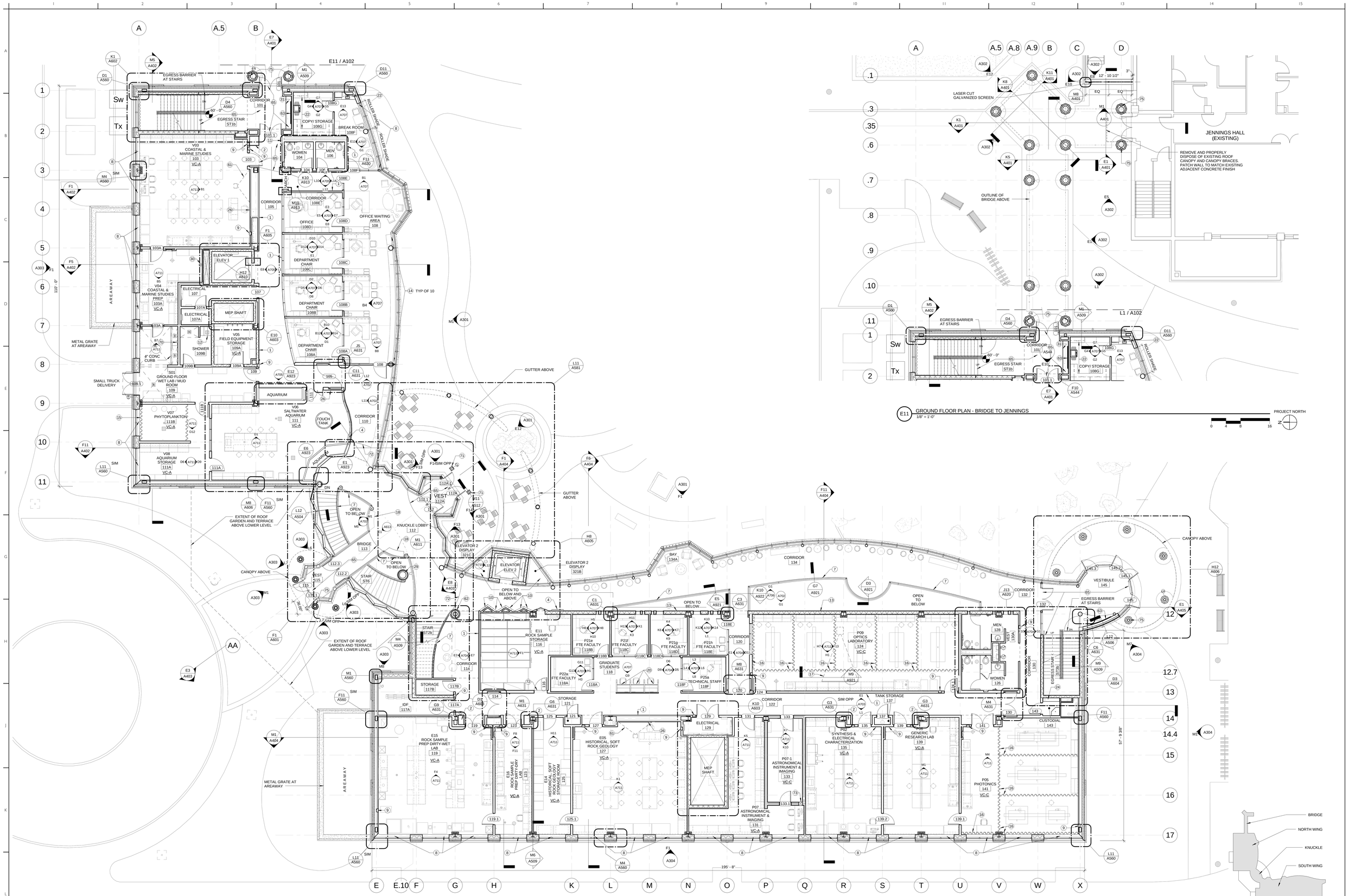
STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING: Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD file: 1393 | project no.: BI-RS-283

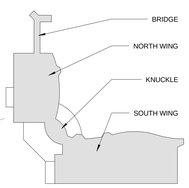
volume: 1 of 2
date: 11-21-2012
scale: As indicated
drawn by: ELIAS
checked by: RMUBR
drawing no.: A101



L1 GROUND FLOOR PLAN (23,598 GSF)
1/8" = 1'-0"

E11 GROUND FLOOR PLAN - BRIDGE TO JENNINGS
1/8" = 1'-0"

PROJECT NORTH



PROJECT NORTH

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VC-# NOTES A VIBRATION SENSITIVE ROOM WITH VIBRATION CRITERION CURVE (ASHRAE TC 2.6) VC-A, VC-B, VC-C, OR VC-D

drawing title	GROUND FLOOR PLAN
REVISIONS	
mark / date / description	1-2-2012 Bid Documents
STATE OF CONNECTICUT	DEPARTMENT OF CONSTRUCTION SERVICES
volume	1 of 2
DRAWING	Centerbrook Architects and Planners, LLP, 67 Main Street, Post Office Box 955, Centerbrook, Connecticut 06409-0955
date	11-21-2012
scale	As indicated
project	SCSU NEW ACADEMIC LABORATORY BUILDING
drawn by	EL/AS
approved by	RM/JBR
CAD file	1393
project no.	BI-RS-283
drawing no.	A102

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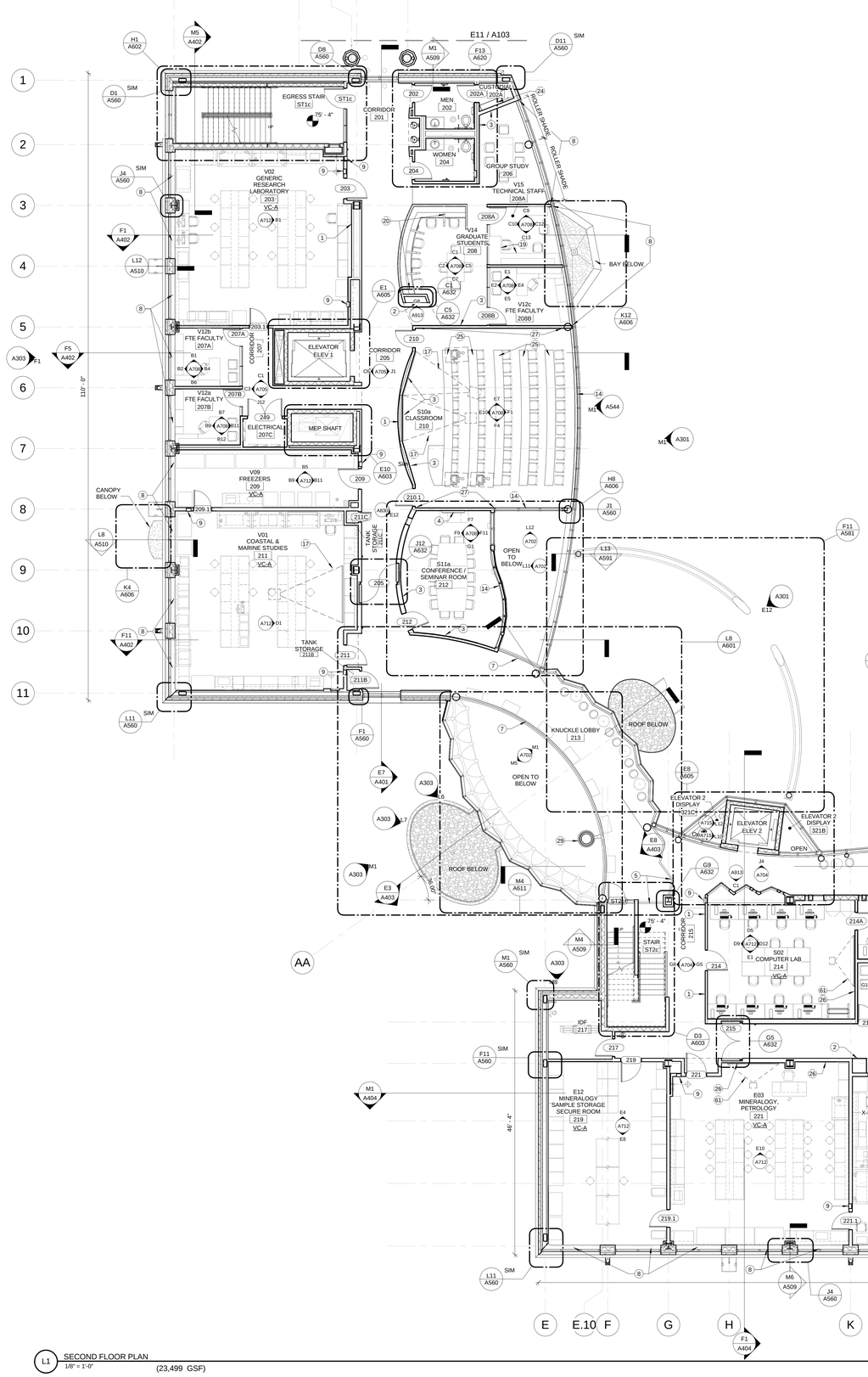
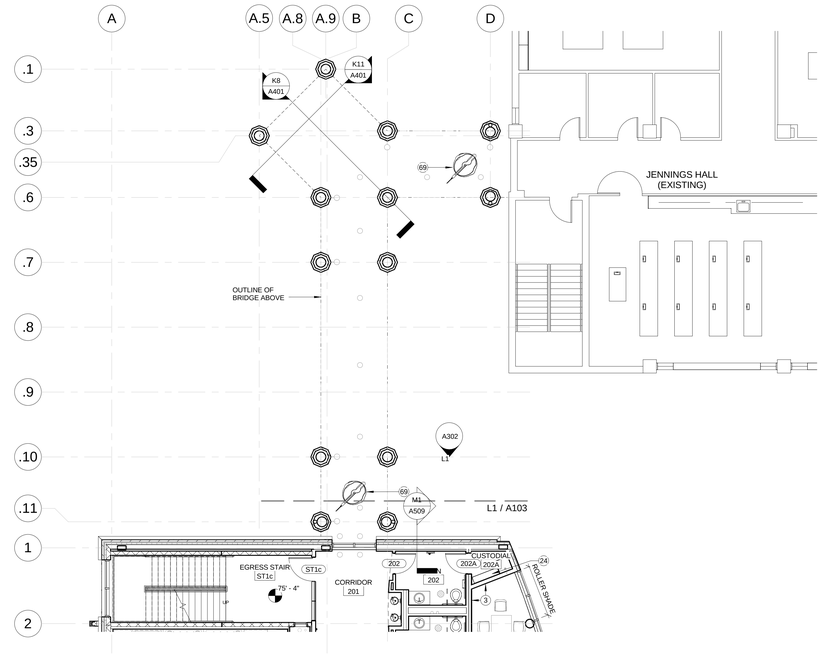
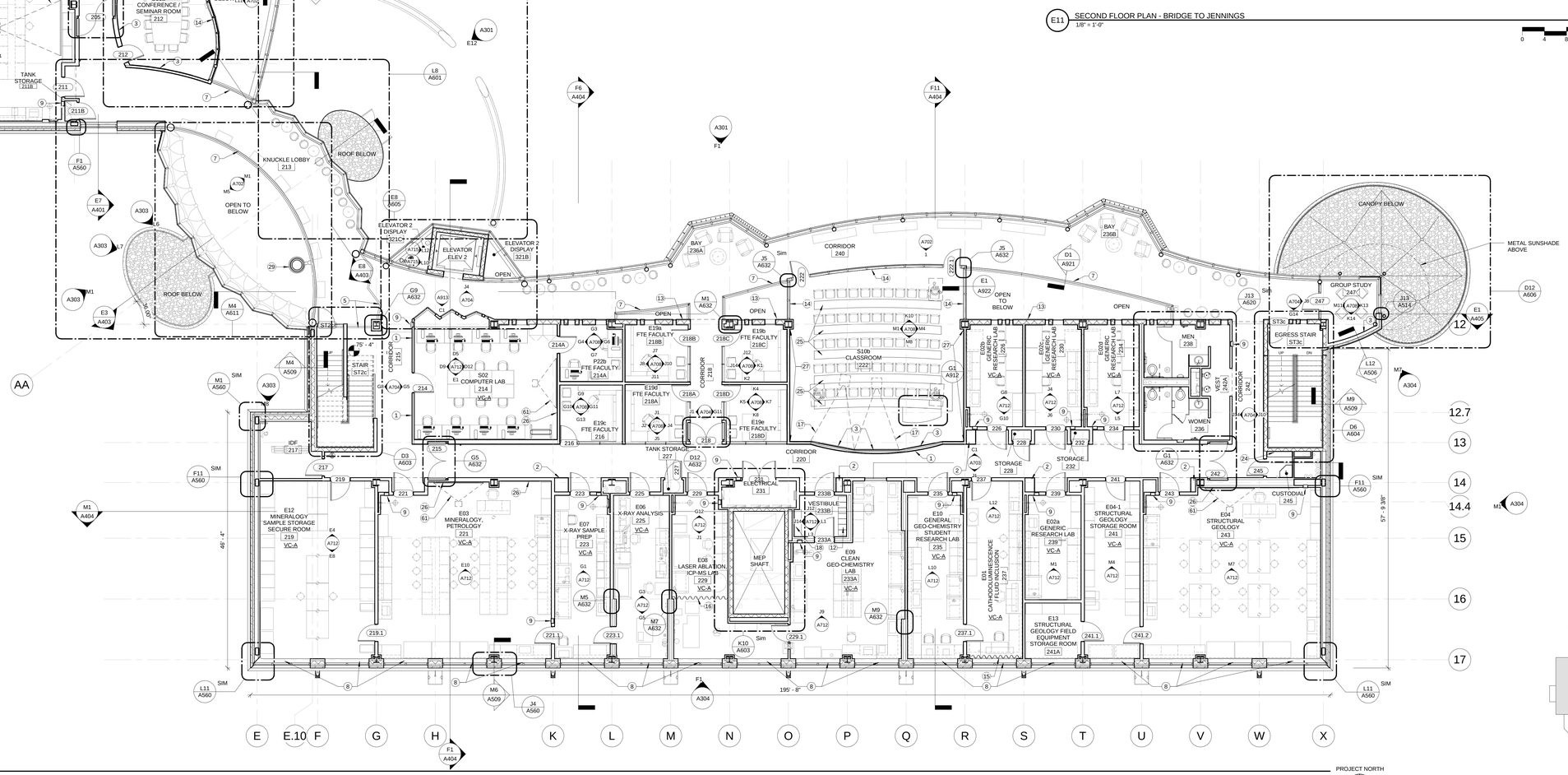


L1 SECOND FLOOR PLAN
1/8" = 1'-0"
(23,499 GSF)



E11 SECOND FLOOR PLAN - BRIDGE TO JENNINGS
1/8" = 1'-0"



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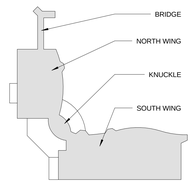

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VC-# NOTES A VIBRATION SENSITIVE ROOM WITH VIBRATION CRITERION CURVE (ASHRAE TC 2.6) VC-A, VC-B, VC-C, OR VC-D

DRAWING TITLE: SECOND FLOOR PLAN

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393 | project no. BI-RS-283

sheet no. of: 1 of 2
date: 11-21-2012
scale: As indicated
drawn: EL/AS
checked: RMJ/BR
sheet no. A103

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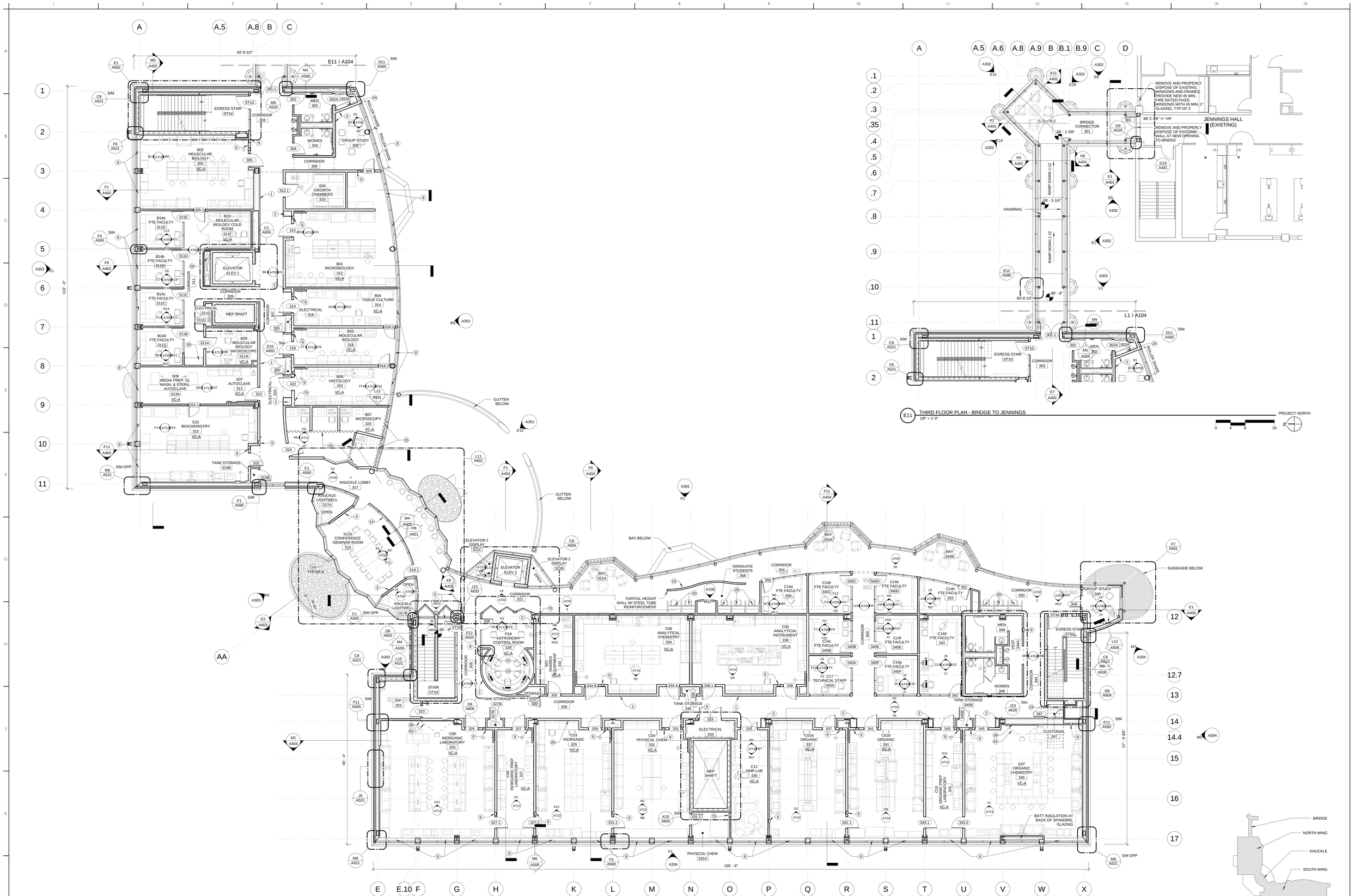

E11 THIRD FLOOR PLAN - BRIDGE TO JENNINGS
1/8" = 1'-0"

L1 THIRD FLOOR PLAN (24,412 GSF)
1/8" = 1'-0"

KEYED NOTES

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drawing title: THIRD FLOOR PLAN

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

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DEPARTMENT OF CONSTRUCTION SERVICES

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project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD file: 1393 | project no.: BI-RS-283

volume: 1 of 2
date: 11-21-2012
scale: As indicated
drawn by: EL/AS
checked by: RM/JBR
drawing no.: A104

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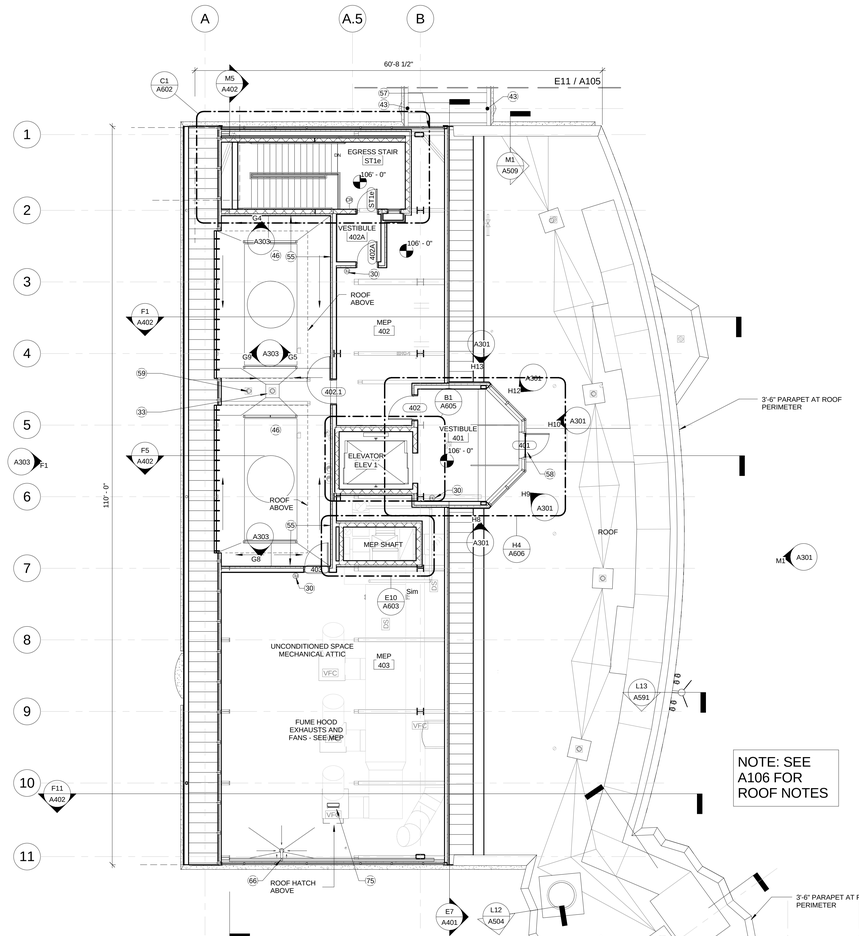
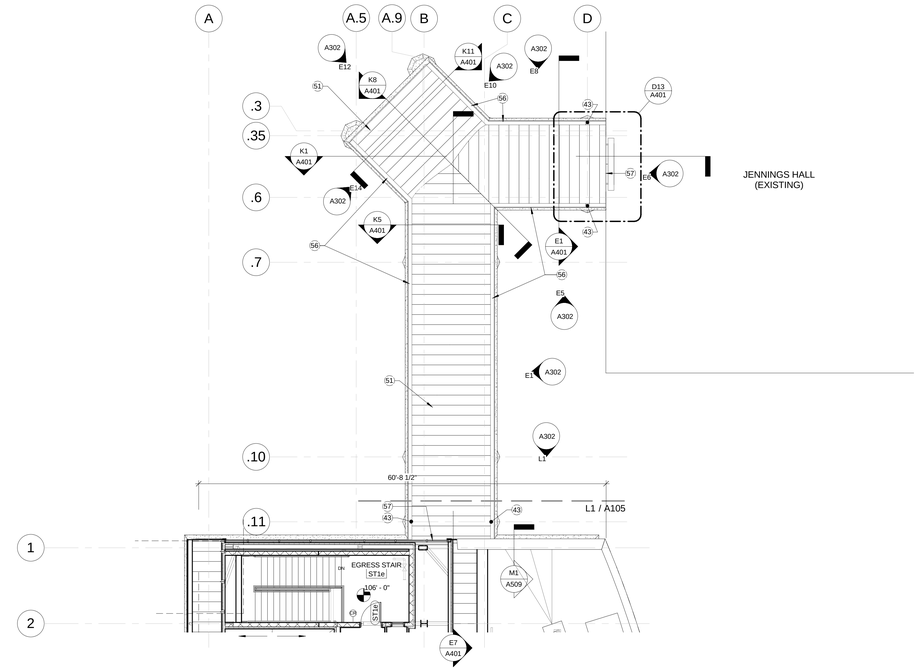
11/21/2012 1:44:50 AM

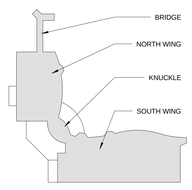


NOTE: SEE A106 FOR ROOF NOTES

E11 FOURTH MECHANICAL ATTIC FLOOR PLAN - BRIDGE TO JENNINGS
1/8" = 1'-0"



L1 FOURTH MECHANICAL ATTIC FLOOR PLAN (13,132 GSF MECHANICAL ATTIC ONLY)
1/8" = 1'-0"



KEYED NOTES

1. LINOLEUM RESILIENT TACK BOARD
2. GLASS DISPLAY CASE. REFERENCE SHEET A914.
3. VISUAL DISPLAY DRY-ERASE WALL COVERING WITH CHAIR RAIL BELOW
4. TV SCREEN
5. SEISMIC JOINT
6. WALL COVERING ABOVE MARKER WALL COVERING
7. GUARDRAIL WITH LAMINATED GLAZING
8. MANUAL OPERATED ROLLER SHADES AT WINDOWS
9. FIRE EXTINGUISHER AND FIRE EXTINGUISHER CABINET
10. ROCK DISPLAY - SEE DETAIL ON A913
11. ANNUNCIATOR PANEL
12. LOCKERS WITH OWNER PROVIDED PAD LOCKS
13. WALLCOVERING
14. MOTORIZED ROLLER SHADES AT WINDOWS
15. LIGHT BLOCK/DARKENING CURTAINS
16. LASER CURTAINS
17. PROJECTOR AND ELECTRIC PROJECTOR SCREEN
18. WOOD BENCH - SEE DETAIL A900-SERIES
19. COUNTERTOP - SEE DETAIL A900-SERIES
20. STUDY CARRELS - SEE DETAIL A900-SERIES
21. COUNTERTOP AND SHELF - SEE DETAIL A900-SERIES
22. BASE CABINET WITH COUNTERTOP AND UPPER CABINETS - SEE DETAILS A900-SERIES
23. BASE CABINET WITH COUNTERTOP - SEE DETAILS A900-SERIES
24. SHELVES - SEE DETAILS A900-SERIES
25. FIXED CLASSROOM TABLES - SEE DETAILS A900-SERIES
26. VISUAL DISPLAY DRY-ERASE BOARD
27. SOUND-ABSORBING WALL PANELS
28. RIVER ROCK BALLAST
29. NANO TUBE LIGHT FIXTURE - SEE DETAILS ON A715
30. FIRE EXTINGUISHER ON WALL MOUNTED BRACKET
31. COUNTER TOP SHELF - SEE DETAIL A900-SERIES
32. PERCHLORIC FUME HOOD EXHAUSTS - SEE MEP
33. ROOF DRAIN
34. SMOKE CONTROL EXHAUST FAN - SEE MEP
35. ROOF HATCH
36. POWER AND DATA FOR TELESCOPE - SEE MEP
37. SCUPPER
38. LIGHT FIXTURES MOUNTED ON ROOF SIDE OF PARAPET. FIELD COORDINATE LOCATIONS WITH ARCHITECTS
39. DOWNSPOUT AND FINIAL
40. ECONOMIZER RELIEF - SEE MEP
41. FUME HOOD EXHAUSTS - SEE MEP
42. CHAIN LINK ENCLOSURE EXTENDED TO STRUCTURE ABOVE WITH 10' TALL GATE FOR TELESCOPE EQUIPMENT
43. DOWNSPOUT
44. WALL MOUNTED LIGHT FIXTURE BELOW - SEE MEP
45. METAL GUARDRAIL
46. COOLING TOWER - SEE MEP
47. SNOW GUARDS
48. GUTTER SYSTEM
49. GUTTER, DOWNSPOUT AND SPLASH BLOCK ON WALKWAY PAD
50. VENT PIPE - SEE MEP
51. STANDING SEAM METAL ROOF SYSTEM
52. MEMBRANE ROOF SYSTEM
53. WALKWAY PADS, 5'-0" WIDE (2 - 30" STRIPS) X 10'-0" LONG, FULLY ADHERED TO MEMBRANE
54. WALKWAY PADS FOR TELESCOPE
55. METAL WALL PANELS
56. GUTTER SYSTEM WITH HEAT TRACE SNOW MELT
57. EXPANSION JOINT
58. CURB AT DOOR OPENING
59. OVERFLOW ROOF DRAIN
60. VIDEO CAMERA - SEE MEP/TC/TS
61. SHORT THROW VIDEO PROJECTOR
62. ACRYLIC COLUMN ENCLOSURE
63. DIRECTORY SIGN 6'-0"W x 4'-0"H
64. ROOM DARKENING ROLLER SHADES
65. RECESSED FLOOR MAT
66. ALUMINUM DRAIN PAN AT BACK OF LOUVER WITH 1/2" PVC PIPE TO FLOOR DRAIN
67. HOT FLUID APPLIED WATERPROOFING ON CONCRETE FOUNDATION
68. SKYLIGHT
69. CUSTOM LIGHT FIXTURE
70. WALL HOOKS
71. GRANITE BOLLARD
72. RECESSED SLAB
73. PASS-THRU CONNECTION, SEE DETAIL ON A922 . COORDINATE FINAL LOCATION WITH ARCHITECT
74. EXHAUST VENT - SEE MEP
75. ACCESS LADDER WITH CAGE TO UNDERSIDE OF ROOF. PROVIDE SLIDING SAFETY POST EXTENSION
75. CONCEALED RWL
76. OPENING AT BASE OF PARAPET WALL

VC-## NOTES A VIBRATION SENSITIVE ROOM WITH VIBRATION CRITERION CURVE (ASHRAE TC 2.6) VC-A, VC-B, VC-C, OR VC-D

mark	date	description
	11-21-2012	Bid Documents

drawing title: FOURTH FLOOR MECHANICAL ATTIC FLOOR PLAN

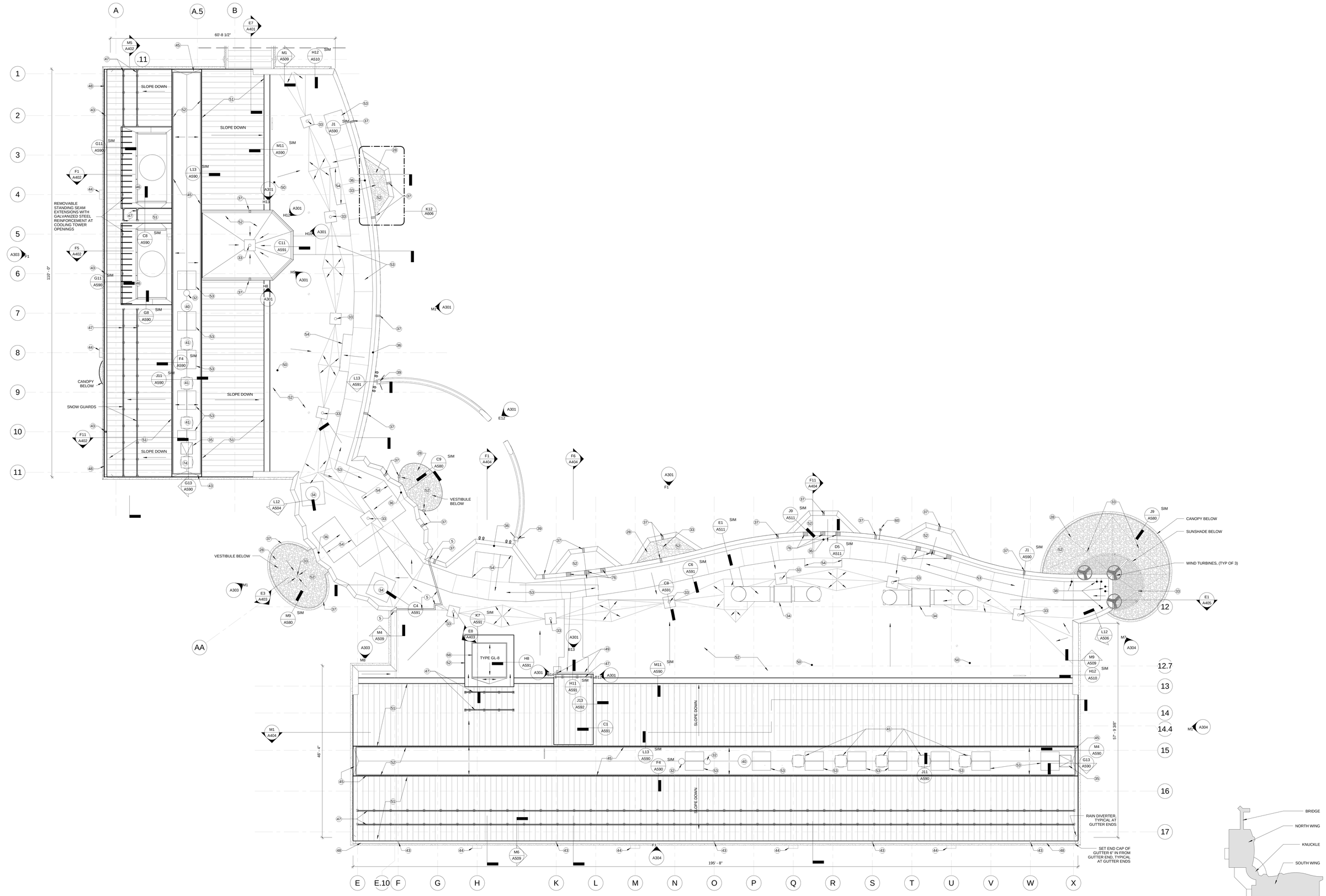
STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD file: 1393 | project no.: BI-RS-283

volume: 1 of 2
date: 11-21-2012
scale: As indicated
drawn by: EL/AS
checked by: RM/JBR
drawing no.: A105



L1 ROOF PLAN
1/8" = 1'-0"

KEYED NOTES

1. LINOLEUM RESILIENT TACK BOARD
2. GLASS DISPLAY CASE. REFERENCE SHEET A914.
3. VISUAL DISPLAY DRY-ERASE WALL COVERING WITH CHAIR RAIL BELOW
4. TV SCREEN
5. SEISMIC JOINT
6. WALL COVERING ABOVE MARKER WALL COVERING
7. GUARDRAIL WITH LAMINATED GLAZING
8. MANUAL OPERATED ROLLER SHADES AT WINDOWS
9. FIRE EXTINGUISHER AND FIRE EXTINGUISHER CABINET
10. ROCK DISPLAY - SEE DETAIL ON A913
11. ANNUNCIATOR PANEL
12. LOCKERS WITH OWNER PROVIDED PAD LOCKS
13. WALLCOVERING
14. MOTORIZED ROLLER SHADES AT WINDOWS
15. LIGHT BLOCK/DARKENING CURTAINS
16. LASER CURTAINS
17. PROJECTOR AND ELECTRIC PROJECTOR SCREEN
18. WOOD BENCH - SEE DETAIL A900-SERIES
19. COUNTERTOP - SEE DETAIL A900-SERIES
20. STUDY CARRELS - SEE DETAIL A900-SERIES
21. COUNTERTOP AND SHELF - SEE DETAIL A900-SERIES
22. BASE CABINET WITH COUNTERTOP AND UPPER CABINETS - SEE DETAILS A900-SERIES
23. BASE CABINET WITH COUNTERTOP - SEE DETAILS A900-SERIES
24. SHELVES - SEE DETAILS A900-SERIES
25. FIXED CLASSROOM TABLES - SEE DETAILS A900-SERIES
26. VISUAL DISPLAY DRY-ERASE BOARD
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29. NANO TUBE LIGHT FIXTURE - SEE DETAILS ON A715
30. FIRE EXTINGUISHER ON WALL MOUNTED BRACKET
31. COUNTER TOP SHELF - SEE DETAIL A900-SERIES
32. PERCHLORIC FUME HOOD EXHAUSTS - SEE MEP
33. ROOF DRAIN
34. SMOKE CONTROL EXHAUST FAN - SEE MEP
35. ROOF HATCH
36. POWER AND DATA FOR TELESCOPE - SEE MEP
37. SCUPPER
38. LIGHT FIXTURES MOUNTED ON ROOF SIDE OF PARAPET. FIELD COORDINATE LOCATIONS WITH ARCHITECTS
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43. DOWNSPOUT
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45. METAL GUARDRAIL
46. COOLING TOWER - SEE MEP
47. SNOW GUARDS
48. GUTTER SYSTEM
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50. VENT PIPE - SEE MEP
51. STANDING SEAM METAL ROOF SYSTEM
52. MEMBRANE ROOF SYSTEM
53. WALKWAY PADS, 5'-0" WIDE (2 - 30" STRIPS) X 10'-0" LONG, FULLY ADHERED TO MEMBRANE
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75. ACCESS LADDER WITH CAGE TO UNDERSIDE OF ROOF. PROVIDE SLIDING SAFETY POST EXTENSION
76. OPENING AT BASE OF PARAPET WALL

VC-# NOTES A VIBRATION SENSITIVE ROOM WITH VIBRATION CRITERION CURVE. (ASHRAE TC 2.6) VC-A, VC-B, VC-C, OR VC-D

drawing title: ROOF PLAN

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING: Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD file: 1393
project no.: BI-RS-283

volume: 1 of 2
date: 11-21-2012
scale: As indicated
drawn by: ELIAS
approved by: RMUBR
drawing no.: A106

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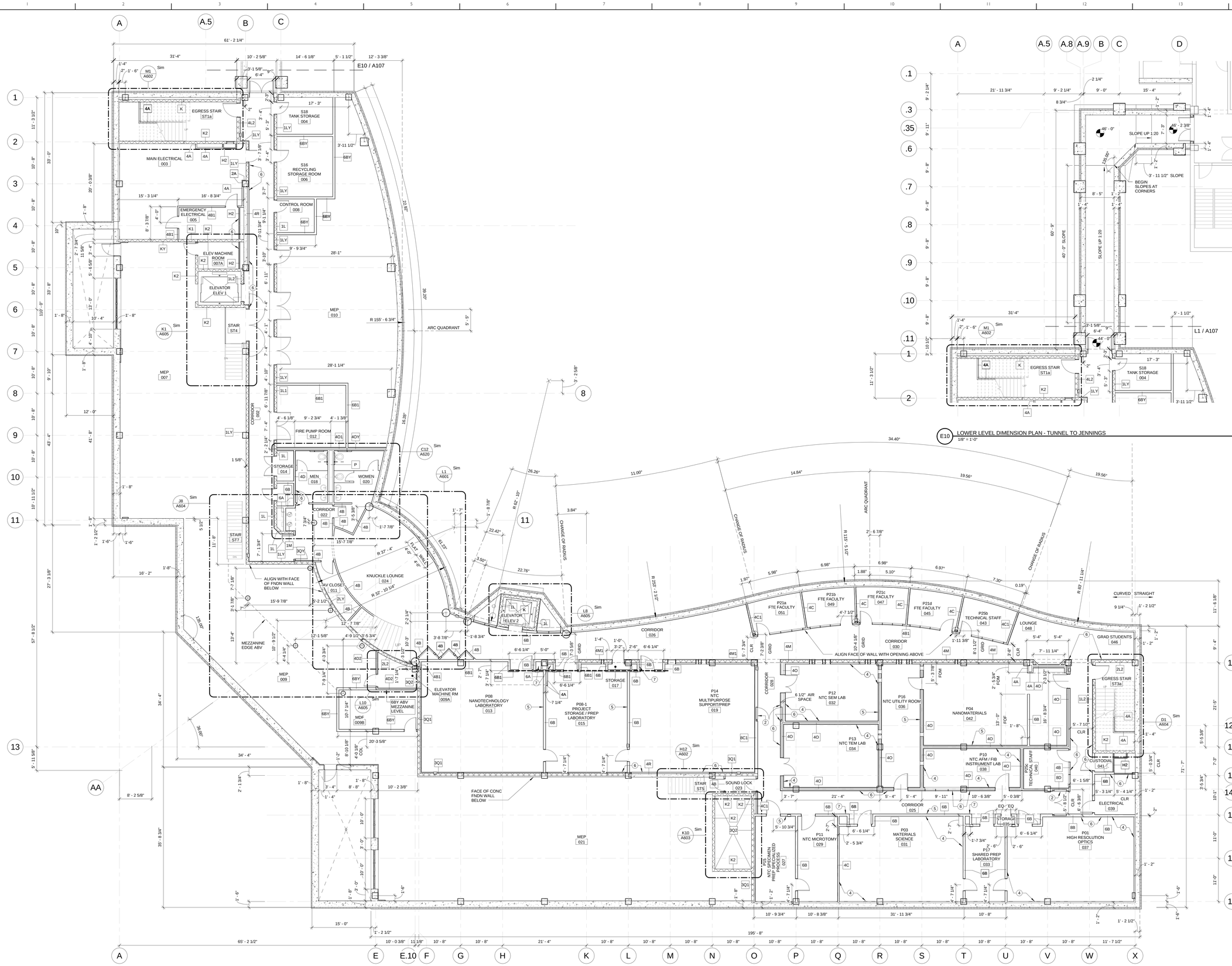
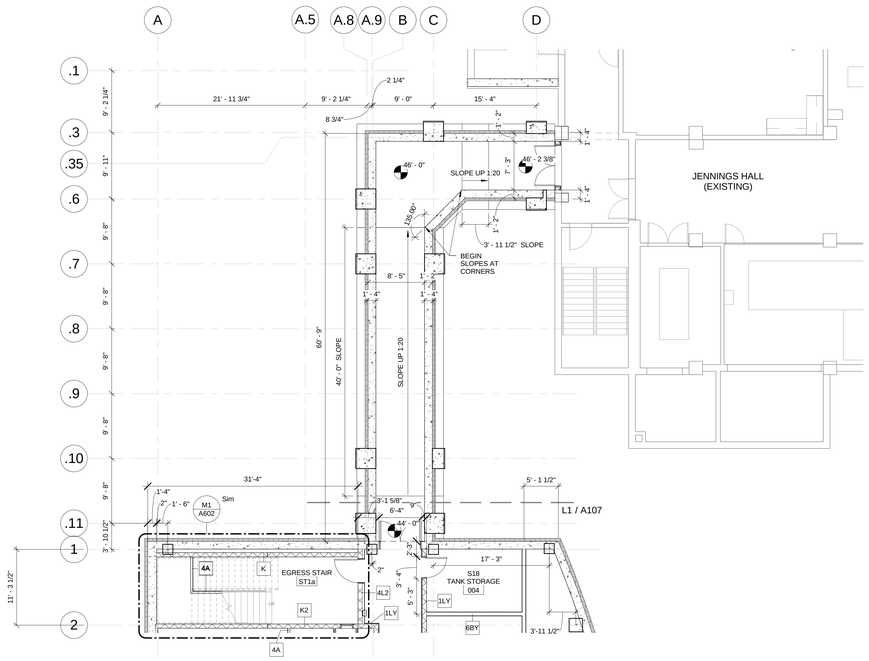
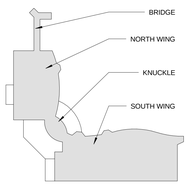


L1 LOWER LEVEL DIMENSION PLAN
1/8" = 1'-0"



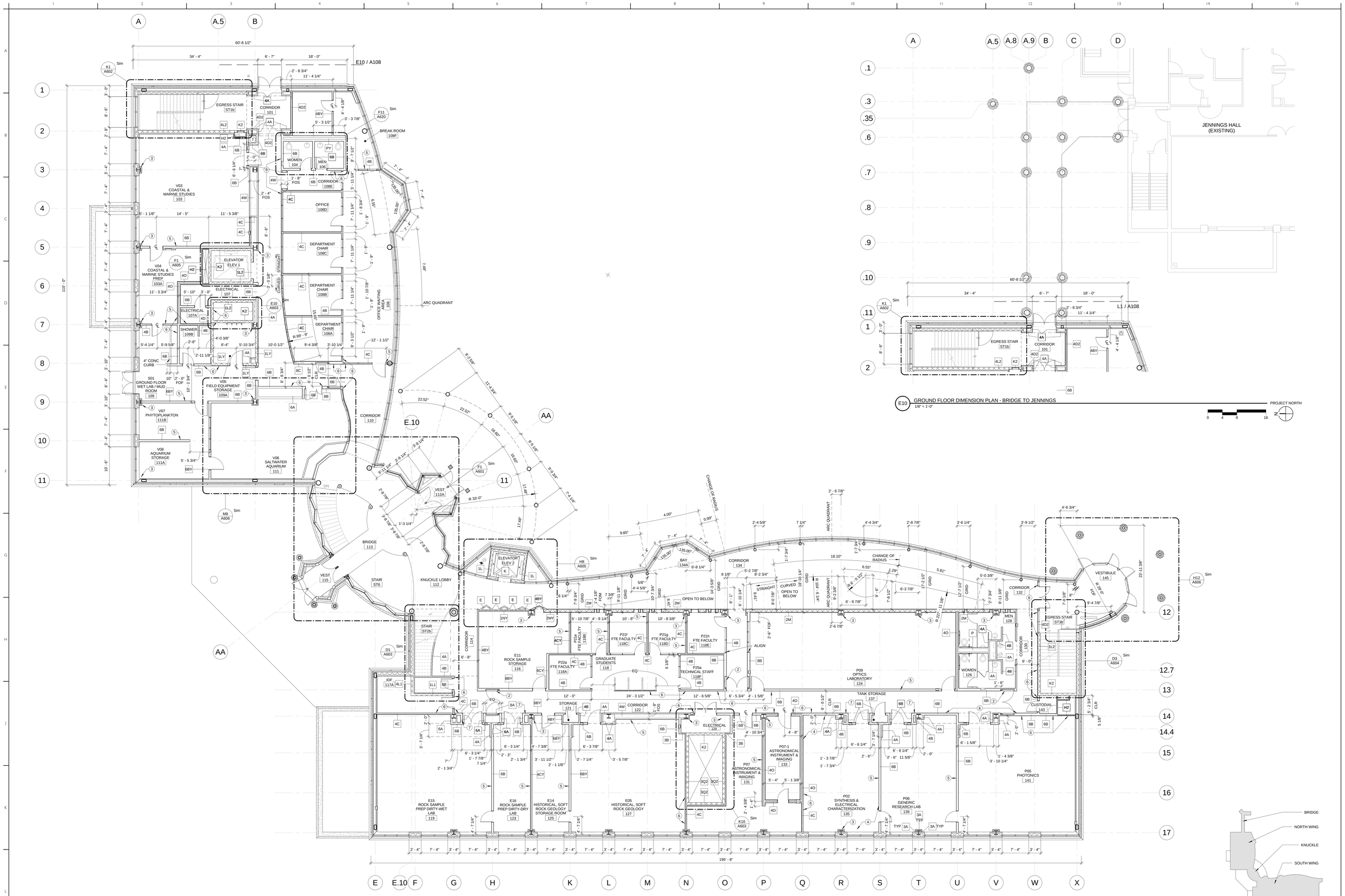
E10 LOWER LEVEL DIMENSION PLAN - TUNNEL TO JENNINGS
1/8" = 1'-0"



KEYED NOTES

1. FURRED WALL
2. ALIGN DOOR FACE WITH WALL
3. WALL TYPE 3A FRAMING AT STEEL COLUMN
4. IN WALL EMI/RF SHIELDING
5. CENTER STUD/MASONRY ON GRID
6. ALIGN FINISHED FACE OF WALLS
7. GLASS DISPLAY CASE. REFERENCE SHEET A914.

drawing title: LOWER LEVEL DIMENSION AND PARTITION TYPE PLAN	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		volume 1 of 2
REVISIONS: mark / date / description	DRAWING PREPARED BY: Centerbrook Architects and Planners, LLP, 67 Main Street, Post Office Box 955, Centerbrook, Connecticut 06409-0955		date 11-21-2012
11-21-2012 Bid Documents	project: SCSU NEW ACADEMIC LABORATORY BUILDING		scale As indicated
			drawn by EL
			checked by RM/JBR
	CAD no. 1393	project no. BI-RS-283	drawing no. A107



E10 GROUND FLOOR DIMENSION PLAN - BRIDGE TO JENNINGS
1/8" = 1'-0"

L1 GROUND FLOOR DIMENSION PLAN
1/8" = 1'-0"

PROJECT NORTH

KEYED NOTES

1. FURRED WALL
2. ALIGN DOOR FACE WITH WALL
3. WALL TYPE 3A FRAMING AT STEEL COLUMN
4. IN WALL EMI/RF SHIELDING
5. CENTER STUD/MASONRY ON GRID
6. ALIGN FINISHED FACE OF WALLS
7. GLASS DISPLAY CASE. REFERENCE SHEET A914.

drawing title: GROUND FLOOR DIMENSION AND PARTITION TYPE PLAN	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES	volume: 1 of 2
REVISIONS: mark / date / description — 11-21-2012 Bid Documents	DRAWING ARCHITECT: Centerbrook Architects and Planners, LLP, 67 Main Street, Post Office Box 955, Centerbrook, Connecticut 06409-0955	date: 11-21-2012
		scale: As indicated
	project: SCSU NEW ACADEMIC LABORATORY BUILDING	drawn by: EL
		checked by: RMJ/BR
	CAD file: 1393 / project no.: BI-RS-283	drawing no.: A108

Clifford Lund Filed 09/5/20 New Academic and Laboratory Building 4-01 Coring_Graphics
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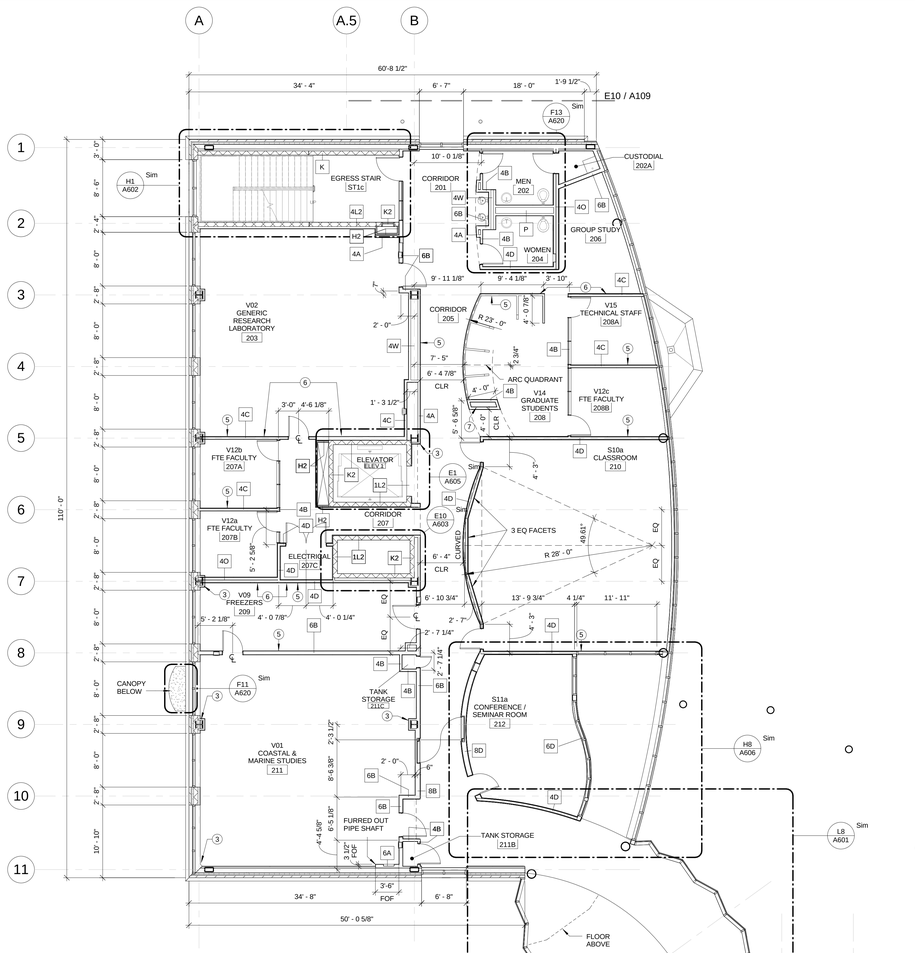
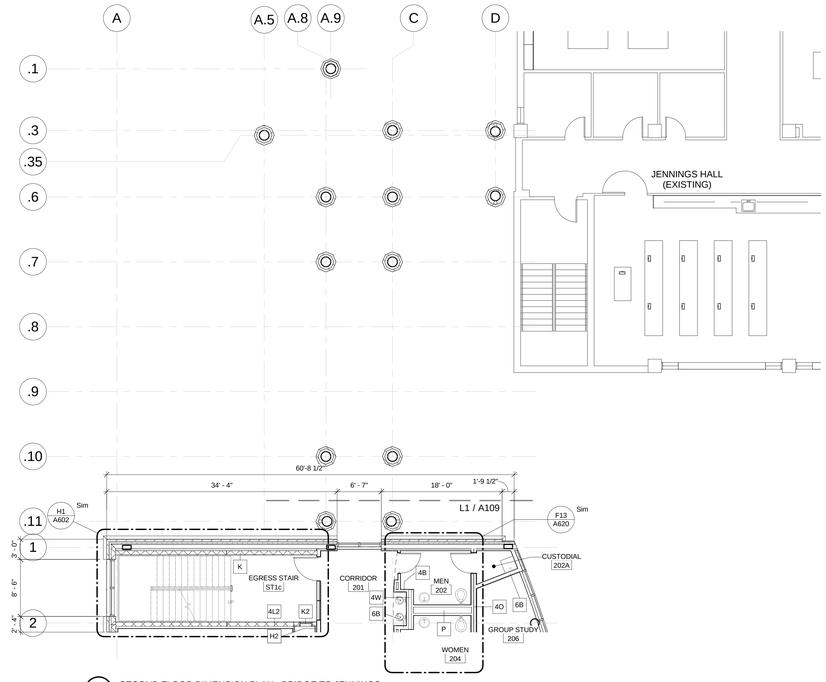


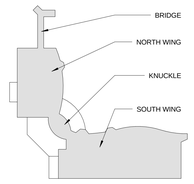


E10 SECOND FLOOR DIMENSION PLAN - BRIDGE TO JENNINGS
1/8" = 1'-0"

PROJECT NORTH

L1 SECOND FLOOR DIMENSION PLAN
1/8" = 1'-0"

PROJECT NORTH



KEYED NOTES

1. FURRED WALL
2. ALIGN DOOR FACE WITH WALL
3. WALL TYPE 3A FRAMING AT STEEL COLUMN
4. IN WALL EMI/RF SHIELDING
5. CENTER STUD/MASONRY ON GRID
6. ALIGN FINISHED FACE OF WALLS
7. GLASS DISPLAY CASE. REFERENCE SHEET A914.

DRAWING TITLE: SECOND FLOOR DIMENSION AND PARTITION TYPE PLAN	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		SHEET 1 of 2
REVISIONS: mark / date / description: 11-21-2012 Bid Documents	DRAWING PREPARED BY: Centerbrook Architects and Planners, LLP, 67 Main Street, Post Office Box 955, Centerbrook, Connecticut 06409-0955		11-21-2012
	project: SCSU NEW ACADEMIC LABORATORY BUILDING		SCALE: As indicated
			DRAWN: EL
			CHECKED: RMJBR
	CAD no. 1393	project no. BI-RS-283	DRAWING no. A109

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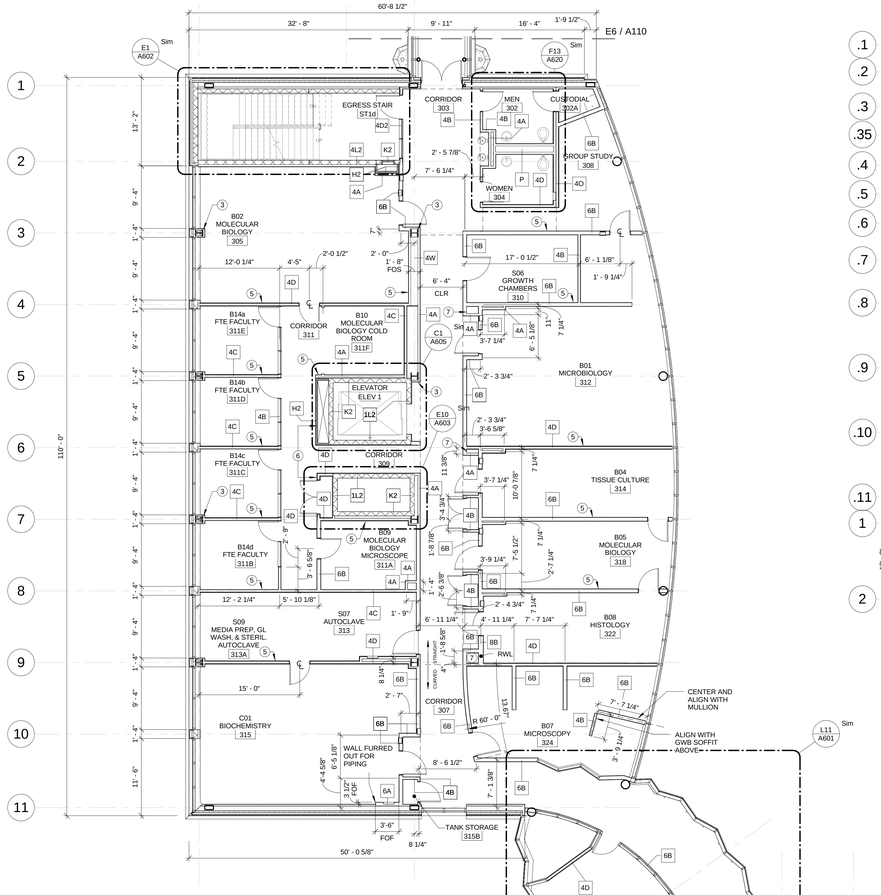
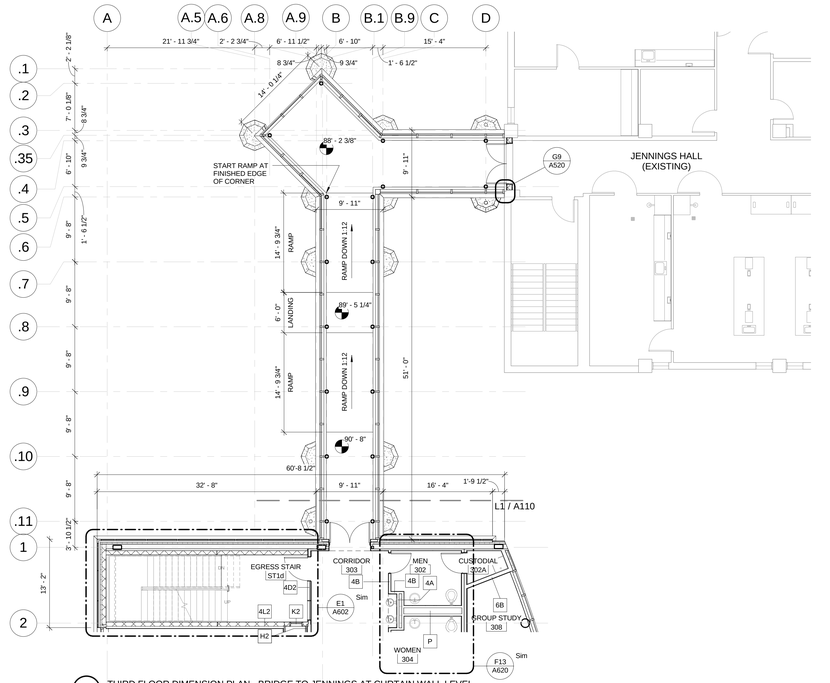
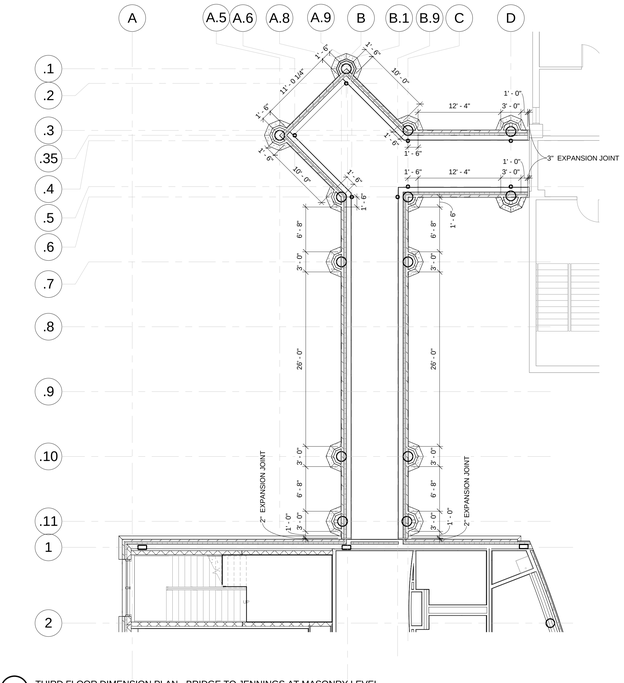
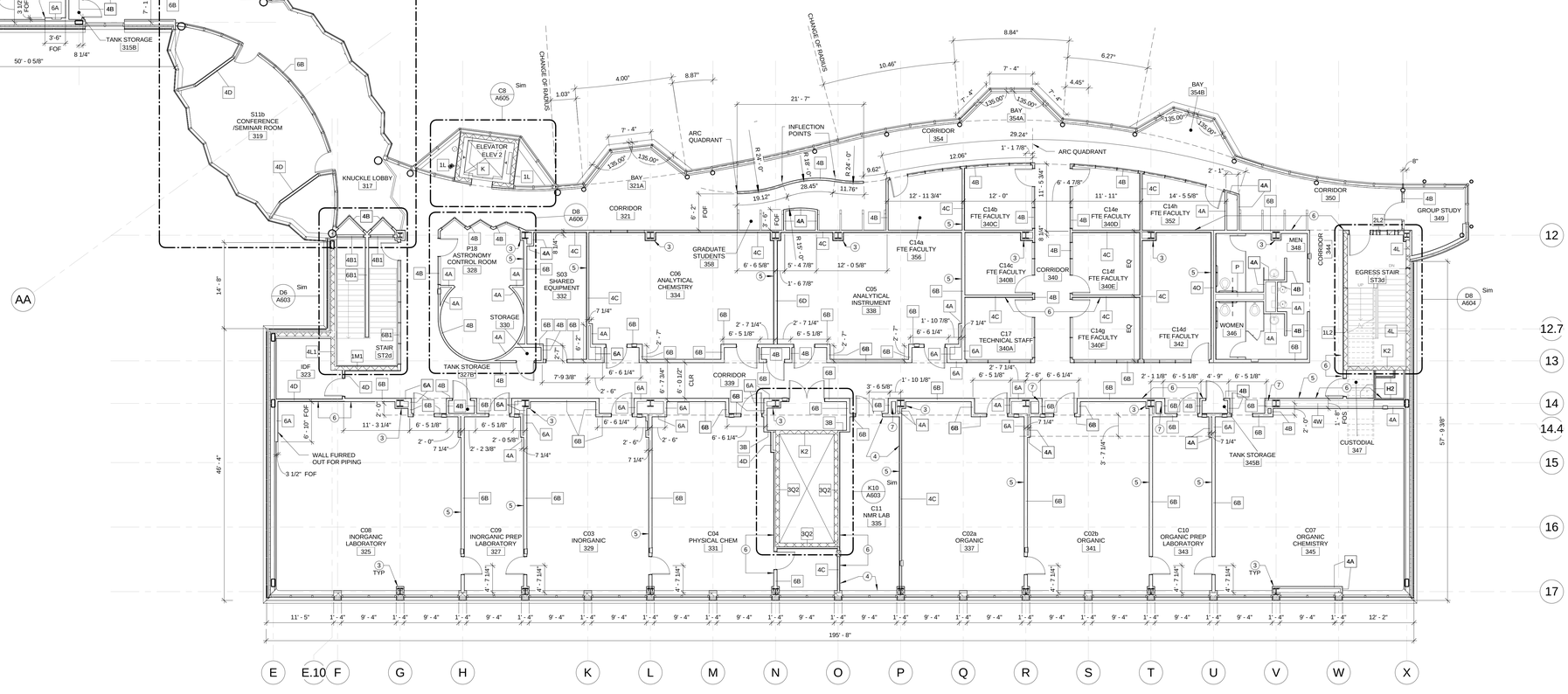




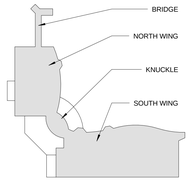
E6 THIRD FLOOR DIMENSION PLAN - BRIDGE TO JENNINGS AT CURTAIN WALL LEVEL
1/8" = 1'-0"



E12 THIRD FLOOR DIMENSION PLAN - BRIDGE TO JENNINGS AT MASONRY LEVEL
1/8" = 1'-0"



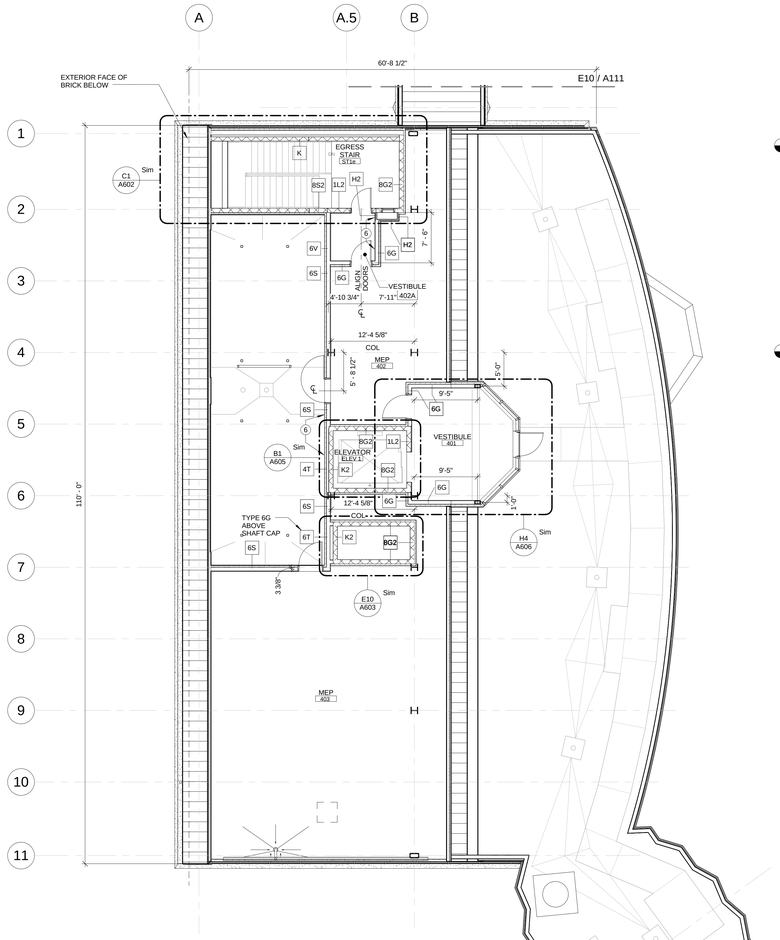
L1 THIRD FLOOR DIMENSION PLAN
1/8" = 1'-0"

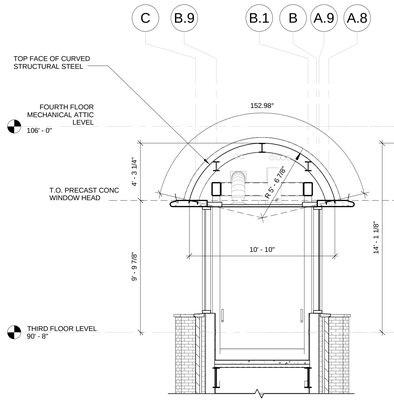


KEYED NOTES

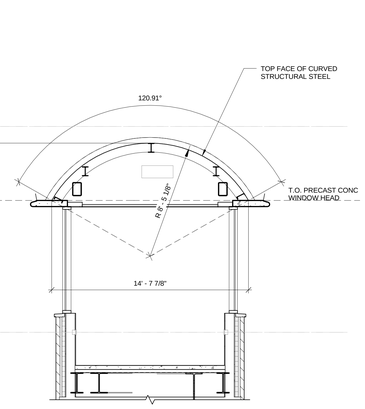
1. FURRED WALL
2. ALIGN DOOR FACE WITH WALL
3. WALL TYPE 3A FRAMING AT STEEL COLUMN
4. IN WALL EM/RF SHIELDING
5. CENTER STUD/MASONRY ON GRID
6. ALIGN FINISHED FACE OF WALLS
7. GLASS DISPLAY CASE. REFERENCE SHEET A914.

drawing title: THIRD FLOOR DIMENSION AND PARTITION TYPE PLAN	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		volume: 1 of 2
REVISIONS: mark / date / description	DRAWING: Centerbrook Architects and Planners, LLP, 67 Main Street, Post Office Box 955, Centerbrook, Connecticut 06409-0955		date: 11-21-2012
11-21-2012 Bid Documents	project: SCSU NEW ACADEMIC LABORATORY BUILDING		scale: As indicated
			drawn by: EL
			supervised by: RMJ/BR
	CAD file: 1393	project no.: BI-RS-283	drawing no.: A110

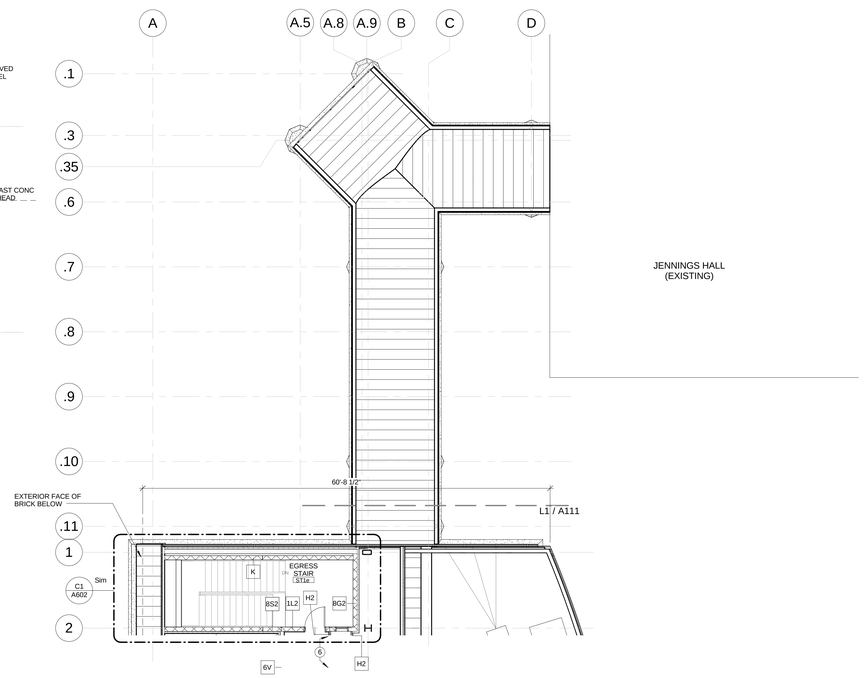




C6 NORTH SOUTH DIMENSION SECTION AT BRIDGE
1/4" = 1'-0"

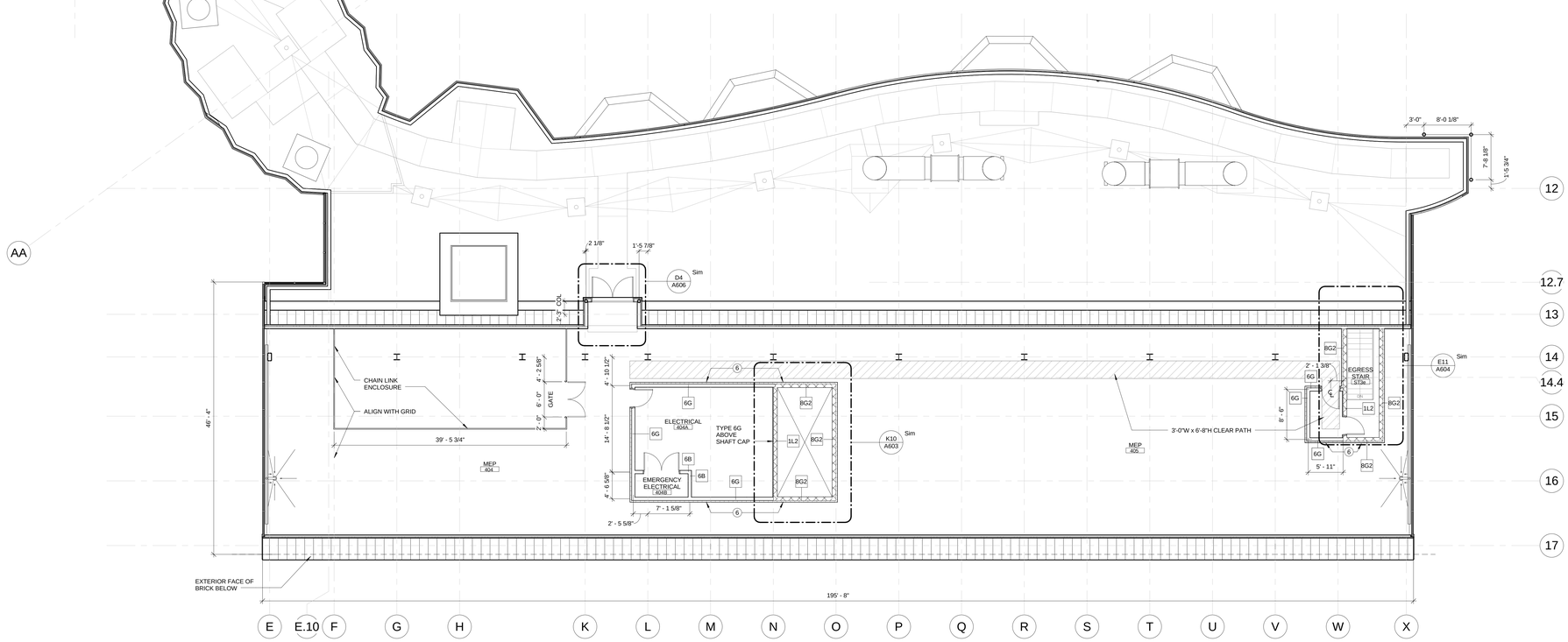


C8 NORTH EAST DIMENSION SECTION AT BRIDGE
1/4" = 1'-0"



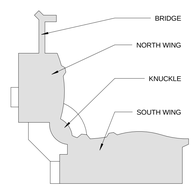
E10 MECHANICAL ATTIC DIMENSION PLAN - BRIDGE TO JENNINGS
1/8" = 1'-0"

PROJECT NORTH



L1 FOURTH FLOOR MECHANICAL ATTIC DIMENSION PLAN
1/8" = 1'-0"

PROJECT NORTH



KEYED NOTES

1. FURRED WALL
2. ALIGN DOOR FACE WITH WALL
3. WALL TYPE 3A FRAMING AT STEEL COLUMN
4. IN WALL EMI/RF SHIELDING
5. CENTER STUD/MASONRY ON GRID
6. ALIGN FINISHED FACE OF WALLS
7. GLASS DISPLAY CASE. REFERENCE SHEET A914.

drawing title: FOURTH FLOOR MECH ATTIC DIMENSION AND PARTITION TYPE PLAN

mark	date	description
	11-21-2012	Bid Documents

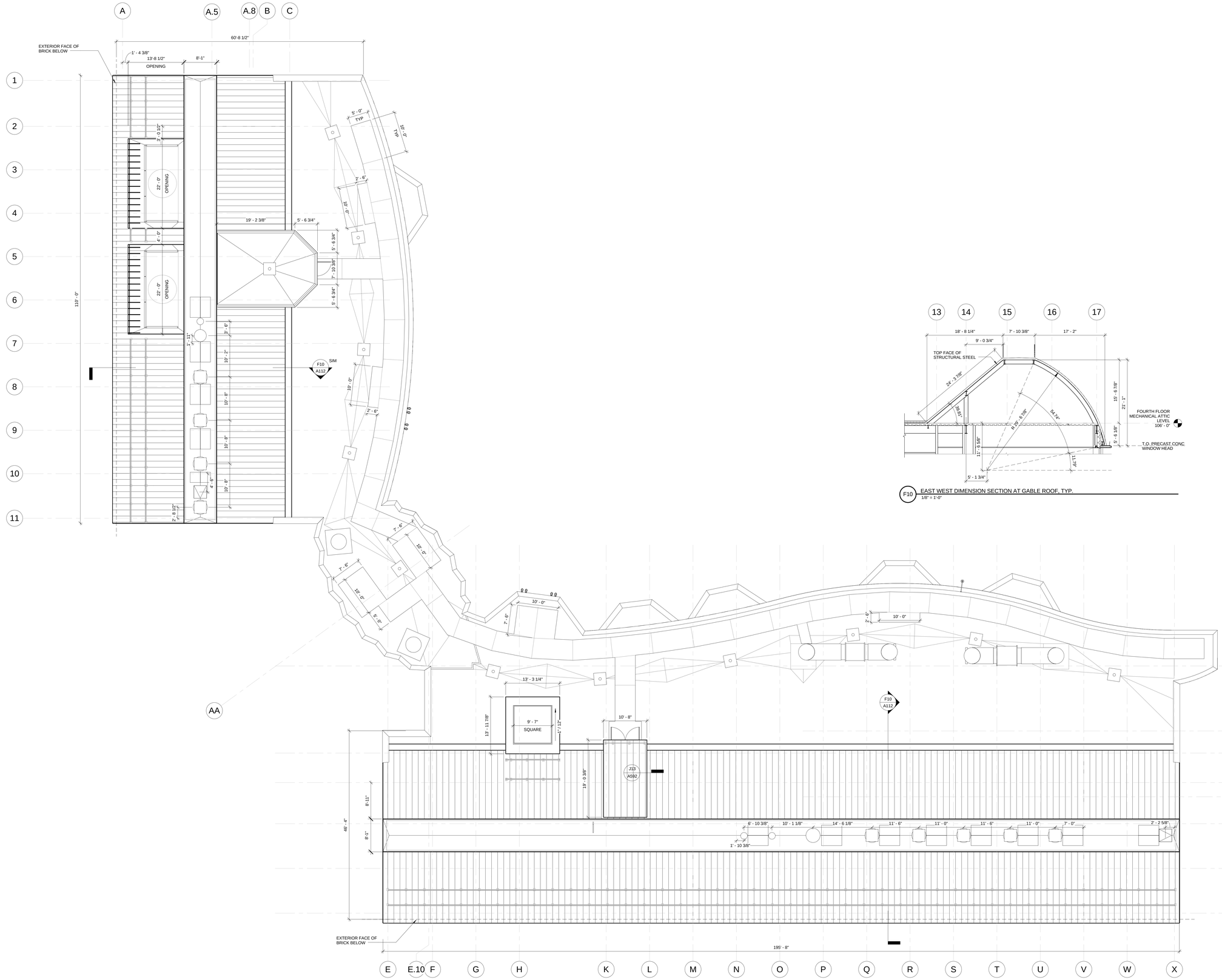
STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

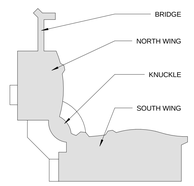
CAD file: 1393
project no.: BI-RS-283

volume: 1 of 2
date: 11-21-2012
scale: As indicated
drawn by: EL
reviewed by: RM/JBR
drawing no.: A111



L1 ROOF DIMENSION PLAN
1/8" = 1'-0"

F10 EAST WEST DIMENSION SECTION AT GABLE ROOF, TYP.
1/8" = 1'-0"



drawing title
ROOF DIMENSION PLAN

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

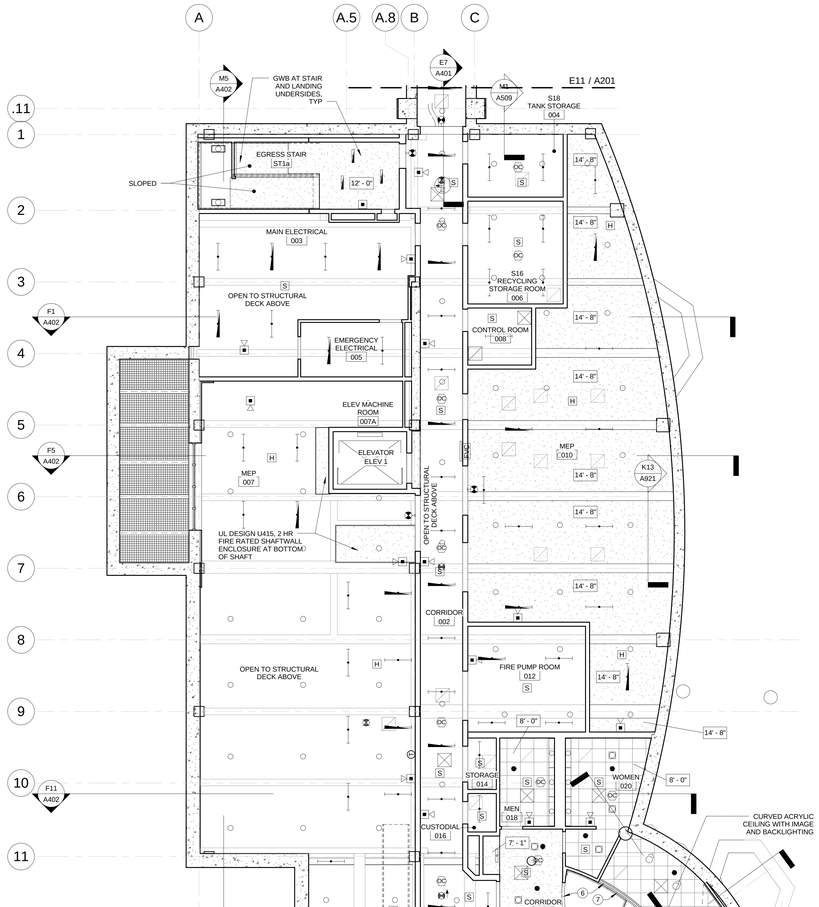
DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

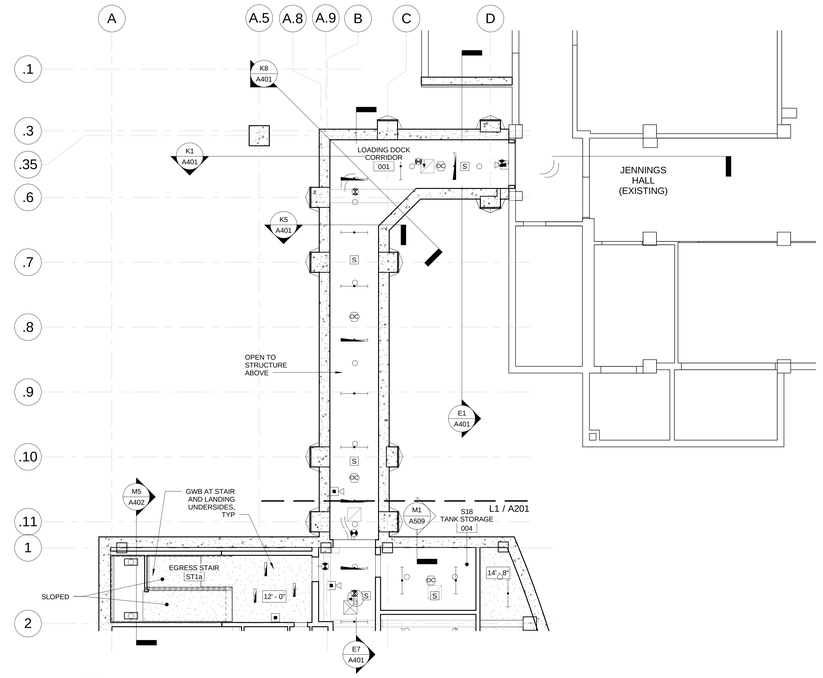
project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

volume 1 of 2
date 11-21-2012
scale As indicated
drawn by EL
checked by RM/JBR
drawing no. A112

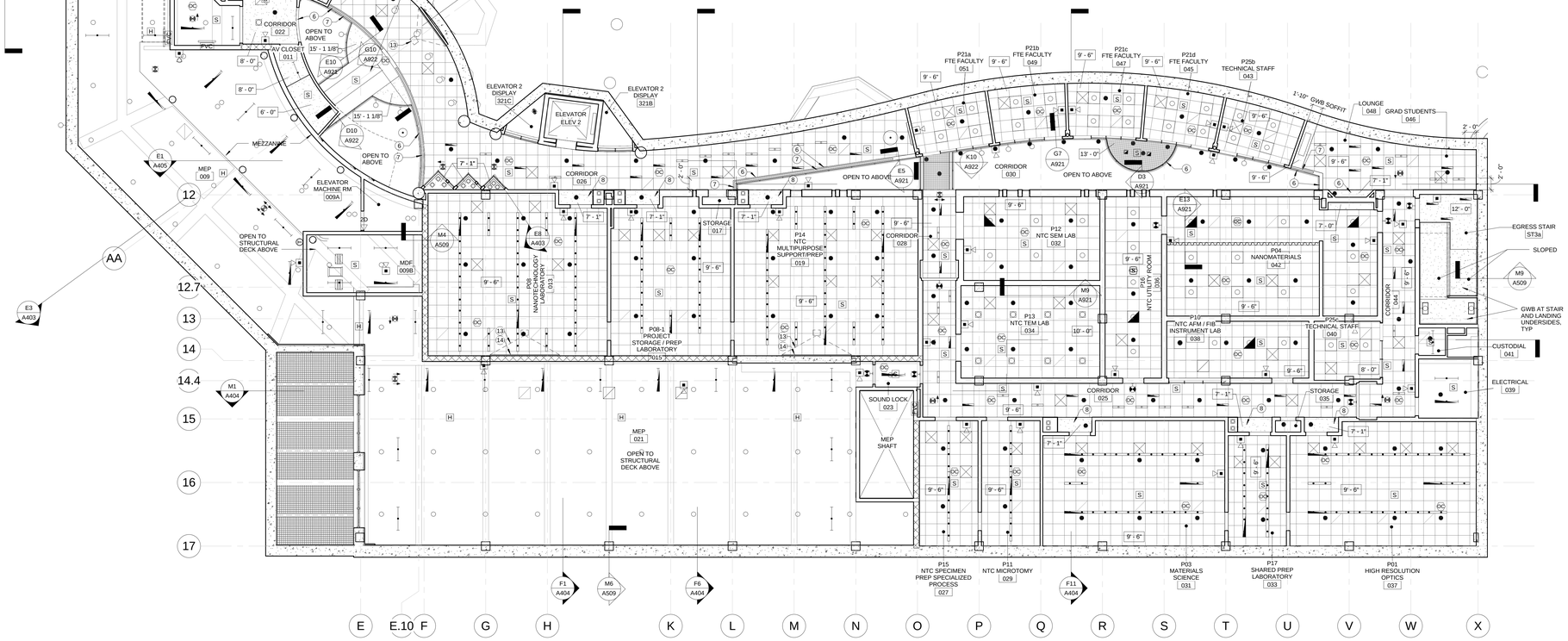
Collaborative Fact 291 ECSU New Academic and Laboratory Building A13 Canopy_Graphic.rvt 11/21/2012 11:46:08 AM





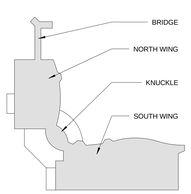
E11 LOWER LEVEL RCP - TUNNEL TO JENNINGS
1/8" = 1'-0"

PROJECT NORTH



L1 LOWER LEVEL REFLECTED CEILING PLAN
1/8" = 1'-0"

PROJECT NORTH



RCP CEILING TYPE LEGEND:

- ACP 1 THRU 7 — 2' x 2' ACP LAY IN CEILING — ACOUSTIC CEILING PANEL SYSTEMS 1 THRU 7 - REFER TO ROOM FINISH PLAN FOR COMPLETE DESIGNATION AND DESCRIPTION
- GWB 1 THRU 4 — GYPSUM WALL BOARD — GYPSUM WALL BOARD CEILING SYSTEM 1 THRU 4 - REFER TO ROOM FINISH SCHEDULE FOR COMPLETE DESIGNATION AND DESCRIPTION
- CERAMIC TILE SOFFIT / CEILING
- ACT 1 — APPLIED CEILING TILES — APPLIED CEILING TILE SYSTEM 1 - REFER TO ROOM FINISH PLAN FOR COMPLETE DESIGNATION AND DESCRIPTION
- MET-1 — METAL LAY IN CEILING SYSTEM

RCP LEGEND:

- SUPPLY REGISTER
- RETURN REGISTER
- LINEAR DIFFUSER
- PENDANT LIGHT FIXTURE
- LINEAR LIGHT FIXTURE
- PENDANT MOUNTED LIGHT FIXTURE
- RECESSED DOWNLIGHT FIXTURE
- RECESSED OR SURFACE-MOUNTED FIXTURE
- OPEN LAMP LIGHT FIXTURE
- LIGHT FIXTURE (PART OF EMERGENCY ILLUMINATION SYSTEM)
- CEILING OR WALL-MOUNTED EXIT LIGHT FIXTURE
- RECESSED WALL WASH DOWNLIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- OCCUPANCY SENSOR W / POWER PACK (WALL / CEILING)
- SMOKE DETECTOR
- HEAT DETECTOR
- FIRE ALARM SPEAKER / STROBE
- SPRINKLER HEAD

RCP NOTES:

1. FULL COORDINATION OF SHOP DRAWINGS BETWEEN TRADES MUST BE SUBMITTED AND APPROVED PRIOR TO ELECTRICAL, HVAC, PLUMBING AND FIRE PROTECTION SERVICES BEING INSTALLED.
2. CENTER CEILING GRIDS IN ROOMS UNLESS OTHERWISE NOTED OR INDICATED. PLACE LIGHT FUTURES AND OTHER ELECTRICAL, HVAC AND FIRE PROTECTION DEVICES AS SHOWN.
3. DO NOT USE LESS THAN 1/3 OF CEILING TILE WITHOUT APPROVAL OF THE ARCHITECT.
4. MEP / AV ITEMS SHOWN IN ARCHITECTURAL RCP'S ARE MEANT TO CONVEY DESIGN INTENT ONLY. REFER TO MEP / AV / LIGHTING DRAWINGS AND ALL OTHER TRADES FOR COMPLETE COORDINATION.
5. PROVIDE UNISTRUT SUPPORTS FOR SUSPENDED CEILINGS WHERE EXTENT OF DUCTWORK PROHIBITS TYPICAL HANGER INSTALLATION.
6. SEE MEP LEGEND FOR ANY EQUIPMENT / FIXTURES NOT IDENTIFIED IN THE RCP LEGEND.

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2. SUNSHADE. REFERENCE DETAIL ON SHEET A581
3. RAISED GWB POCKET FOR ROLLER SHADES
4. VIDEO CAMERA
5. FIBERGLASS DOME WITH PAINTED FINISH AND ROUND OPENING TO SKYLIGHT ABOVE
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11. NOT USED
12. PROJECTOR AND ELECTRIC PROJECTOR SCREEN
13. SHORT THROW VIDEO PROJECTOR
14. VISUAL DISPLAY DRY-ERASE BOARD
15. CUSTOM LIGHT FIXTURE
16. PAINT ALL EXPOSED ARCHITECTURAL, MEP, STRUCTURAL, A/V AND ACCESSORY AND SUPPORT SURFACES AND EQUIPMENT ABOVE MTL-1 CEILING SYSTEM

drawing title: LOWER LEVEL REFLECTED CEILING PLAN

REVISIONS

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project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393 | project no. BI-RS-283

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drawing no. A201

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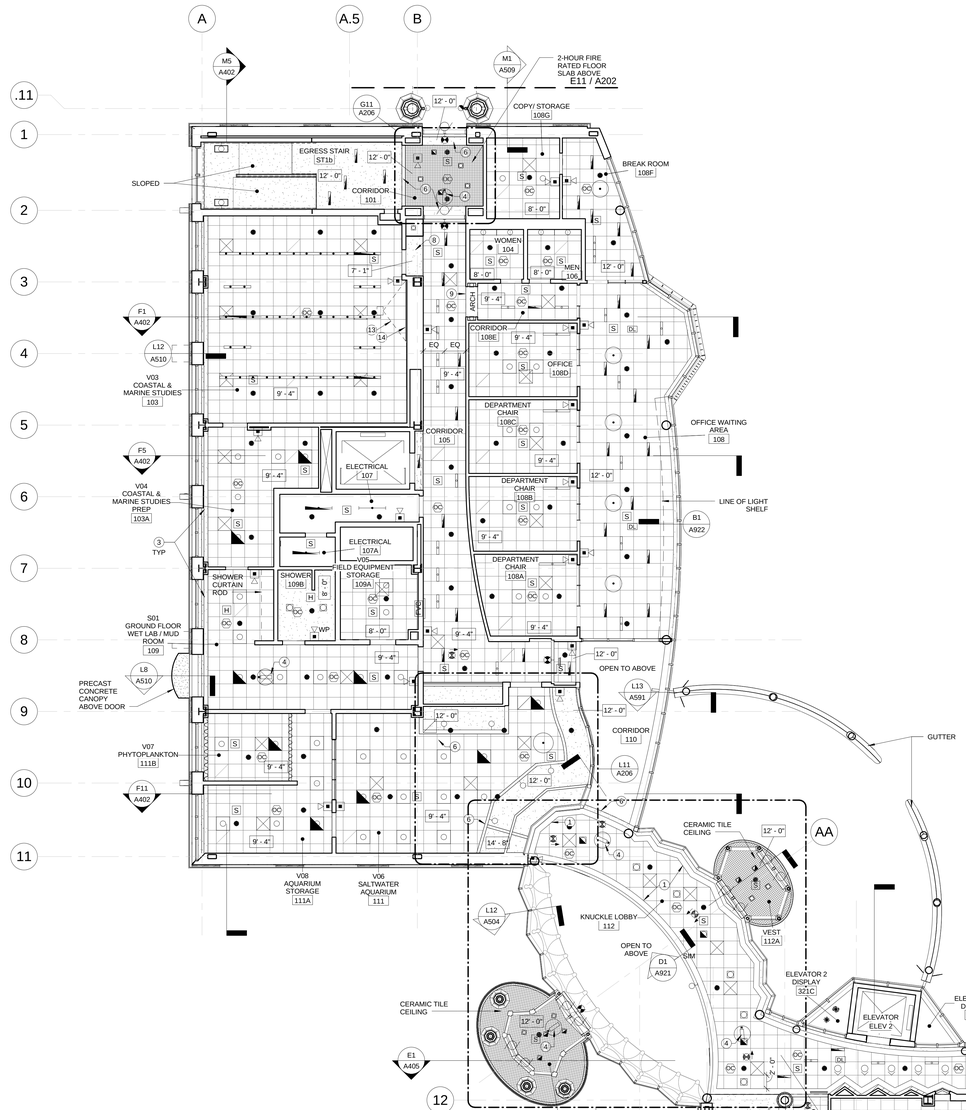
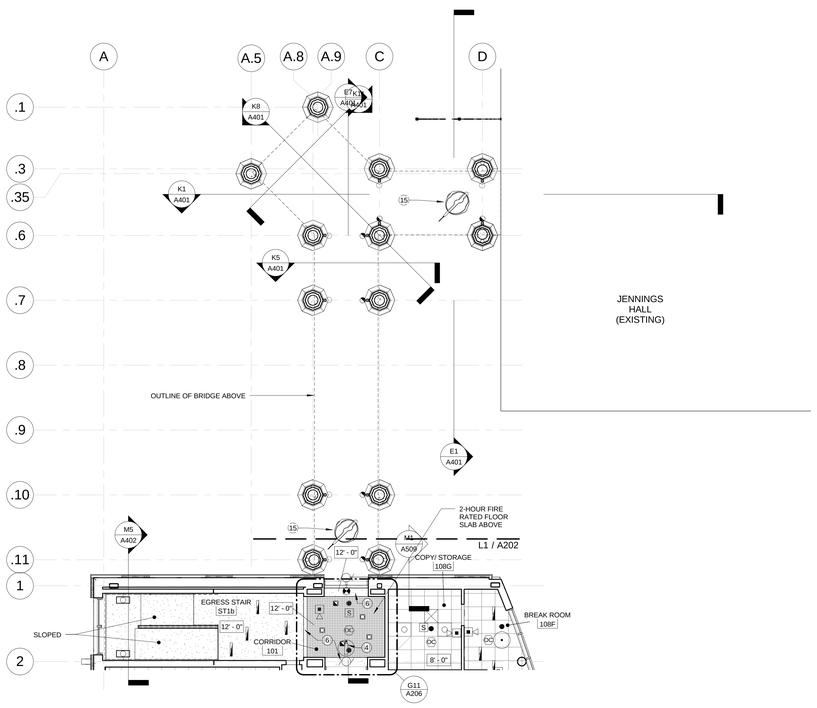
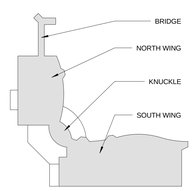


L1 GROUND FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



E11 GROUND FLOOR RCP - BRIDGE TO JENNINGS
1/8" = 1'-0"



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RCP LEGEND:

- SUPPLY REGISTER	- RECESSED DOWNLIGHT FIXTURE	- WALL MOUNTED LIGHT FIXTURE			
- RETURN REGISTER	- RECESSED OR SURFACE-MOUNTED FIXTURE	- OCCUPANCY SENSOR W / POWER PACK (WALL / CEILING)			
- LINEAR DIFFUSER	- OPEN LAMP LIGHT FIXTURE	- SMOKE DETECTOR			
- PENDANT LIGHT FIXTURE	- LIGHT FIXTURE (PART OF EMERGENCY ILLUMINATION SYSTEM)	- HEAT DETECTOR			
- LINEAR LIGHT FIXTURE	- CEILING OR WALL-MOUNTED EXIT LIGHT FIXTURE	- FIRE ALARM SPEAKER / STROBE			
- PENDANT MOUNTED LIGHT FIXTURE	- RECESSED WALL WASH DOWNLIGHT FIXTURE	- SPRINKLER HEAD			

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drawing title: GROUND FLOOR REFLECTED CEIILNG PLAN

REVISIONS

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	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

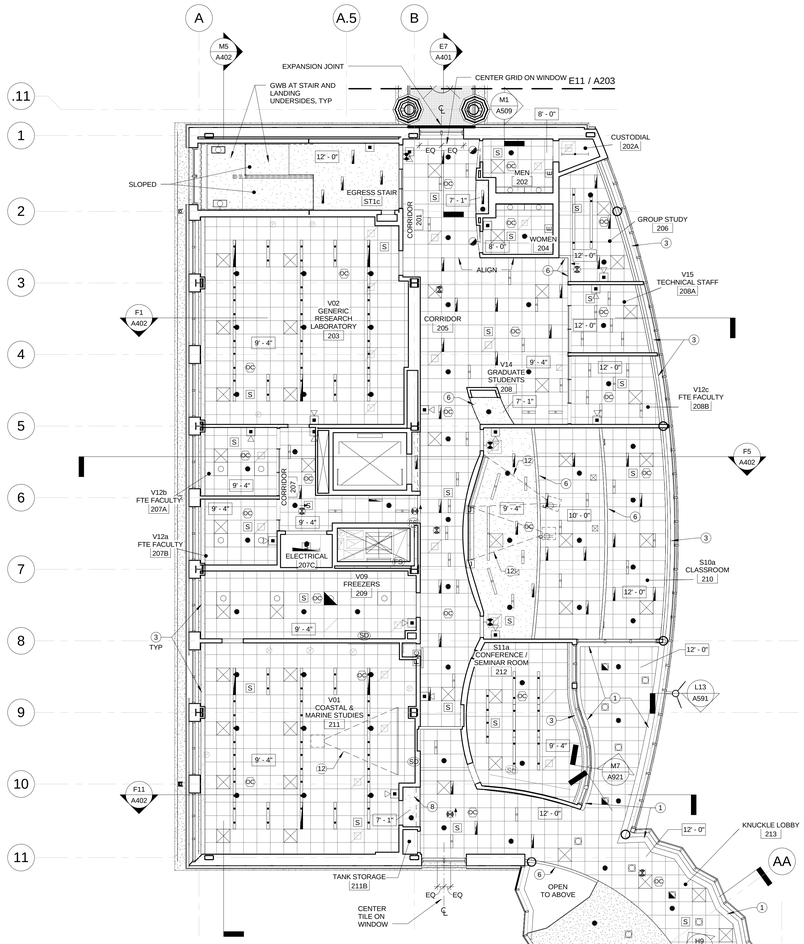
DRAWING: Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

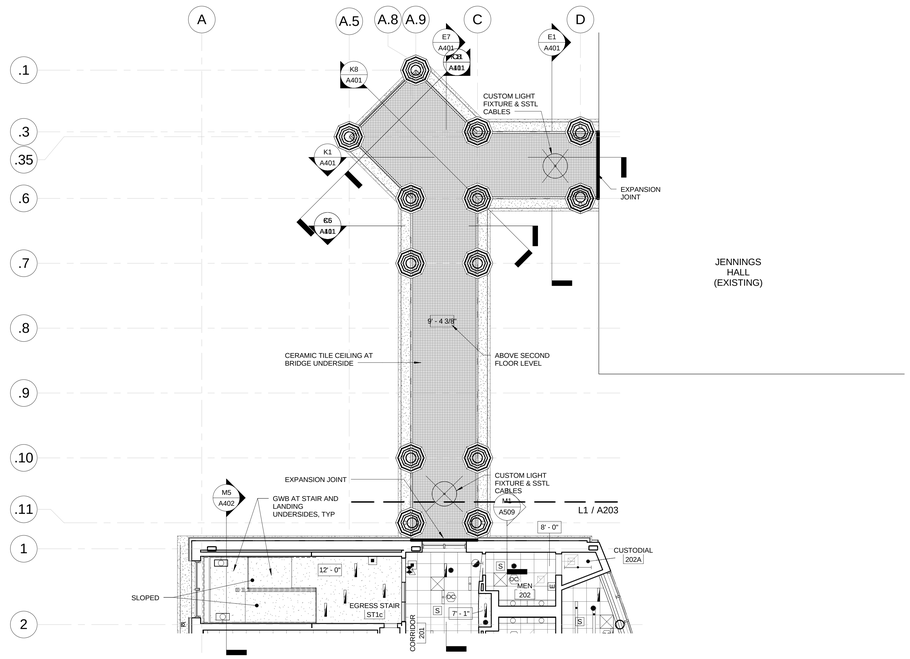
project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393 | project no. BI-RS-283

volume 1 of 2
date 11-21-2012
scale As indicated
drawn by EL
approved by RM/JBR
drawing no. A202

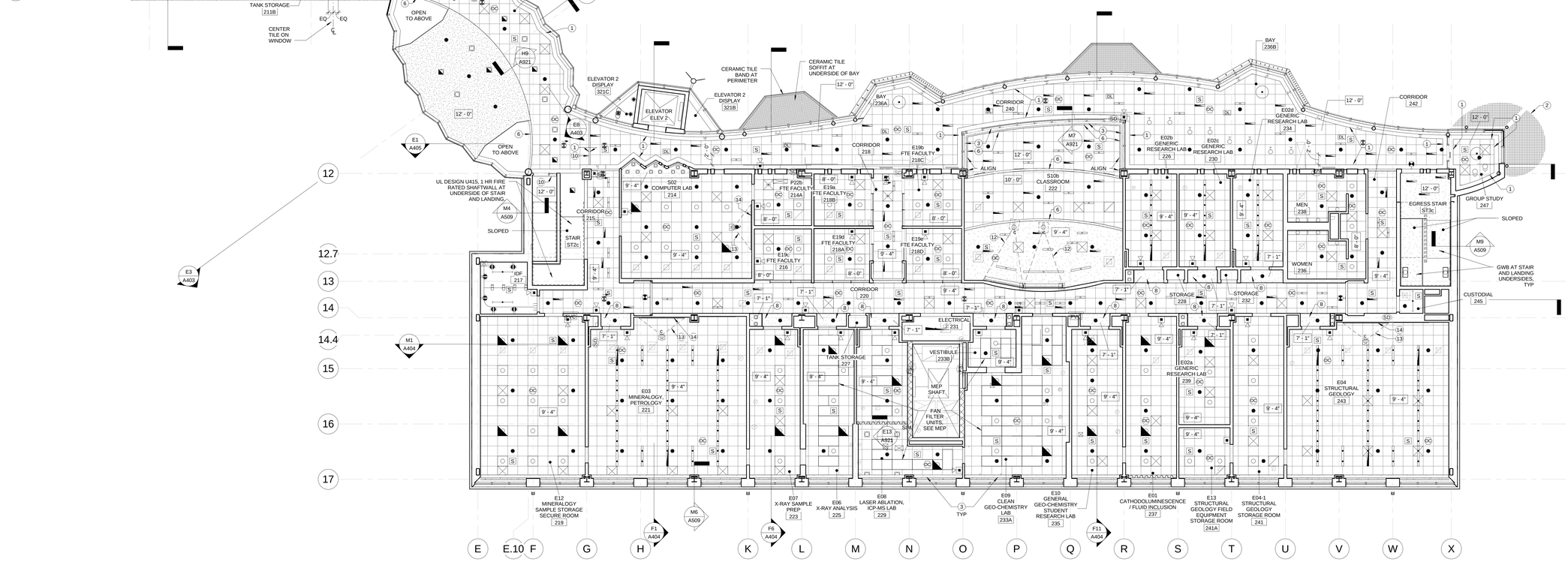
Clifford Lee Filed 7F1 SCSU New Academic and Laboratory Building 11-21 Contract_Graphics 11/21/2012 11:46:57 AM





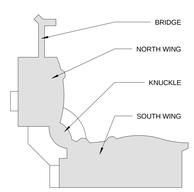
E11 SECOND FLOOR RCP - BRIDGE TO JENNINGS
1/8" = 1'-0"

PROJECT NORTH



L1 SECOND FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

PROJECT NORTH



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drawing title: SECOND FLOOR REFLECTED CEIILNG PLAN

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393 | project no. BI-RS-283

sheet no. 1 of 2
date 11-21-2012
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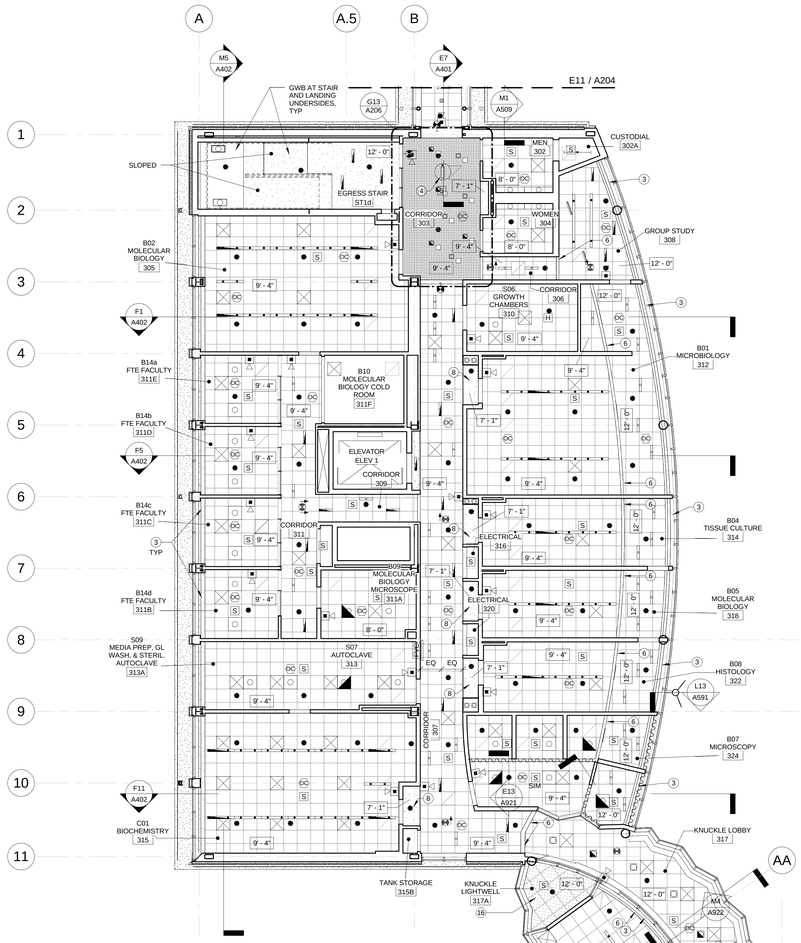
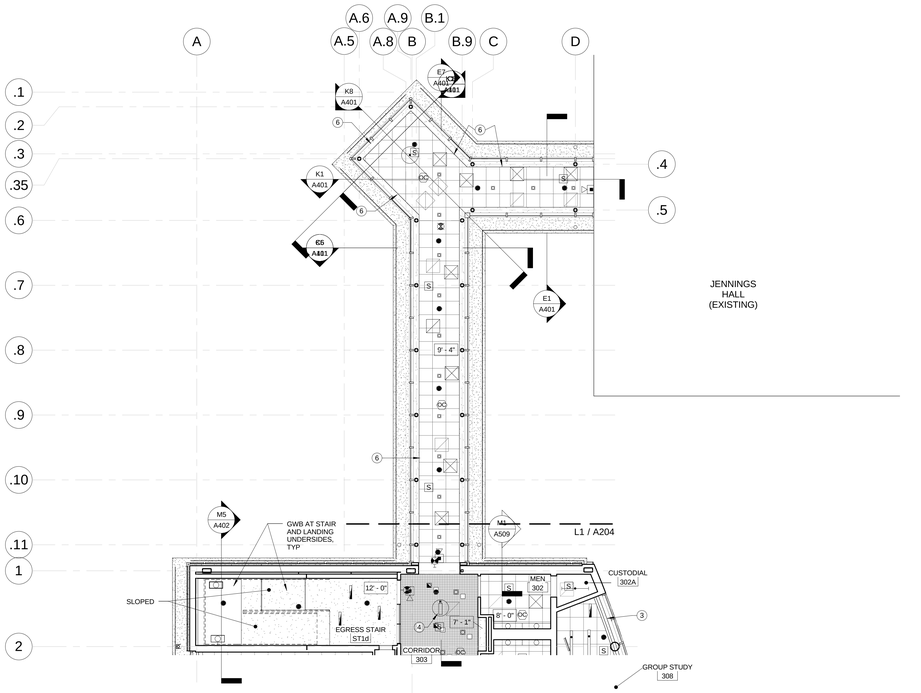
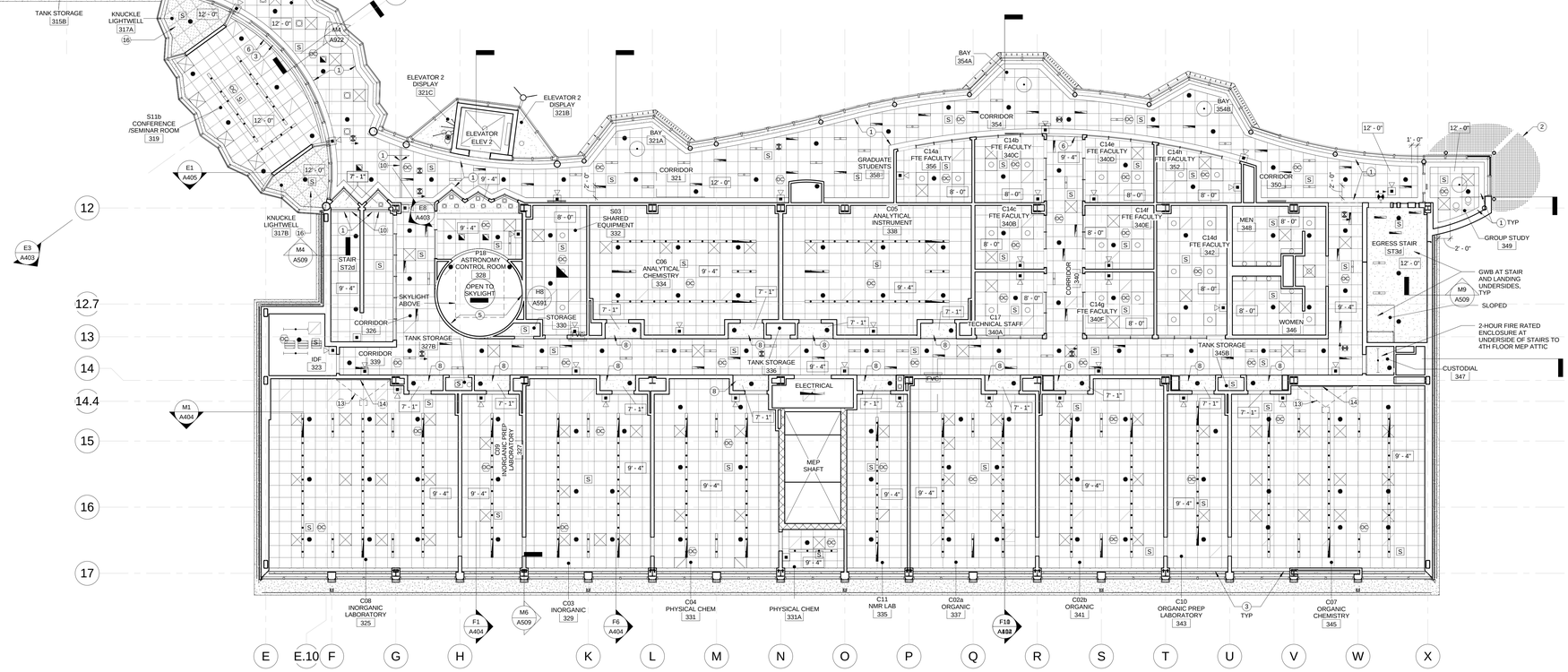
checked by RMUBR
drawing no. A203





E11 THIRD FLOOR RCP - BRIDGE TO JENNINGS
1/8" = 1'-0"

PROJECT NORTH



L1 THIRD FLOOR REFLECTED CEIILNG PLAN
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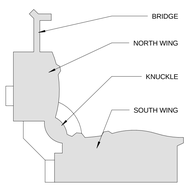
PROJECT NORTH



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drawing title: THIRD FLOOR REFLECTED CEIILNG PLAN

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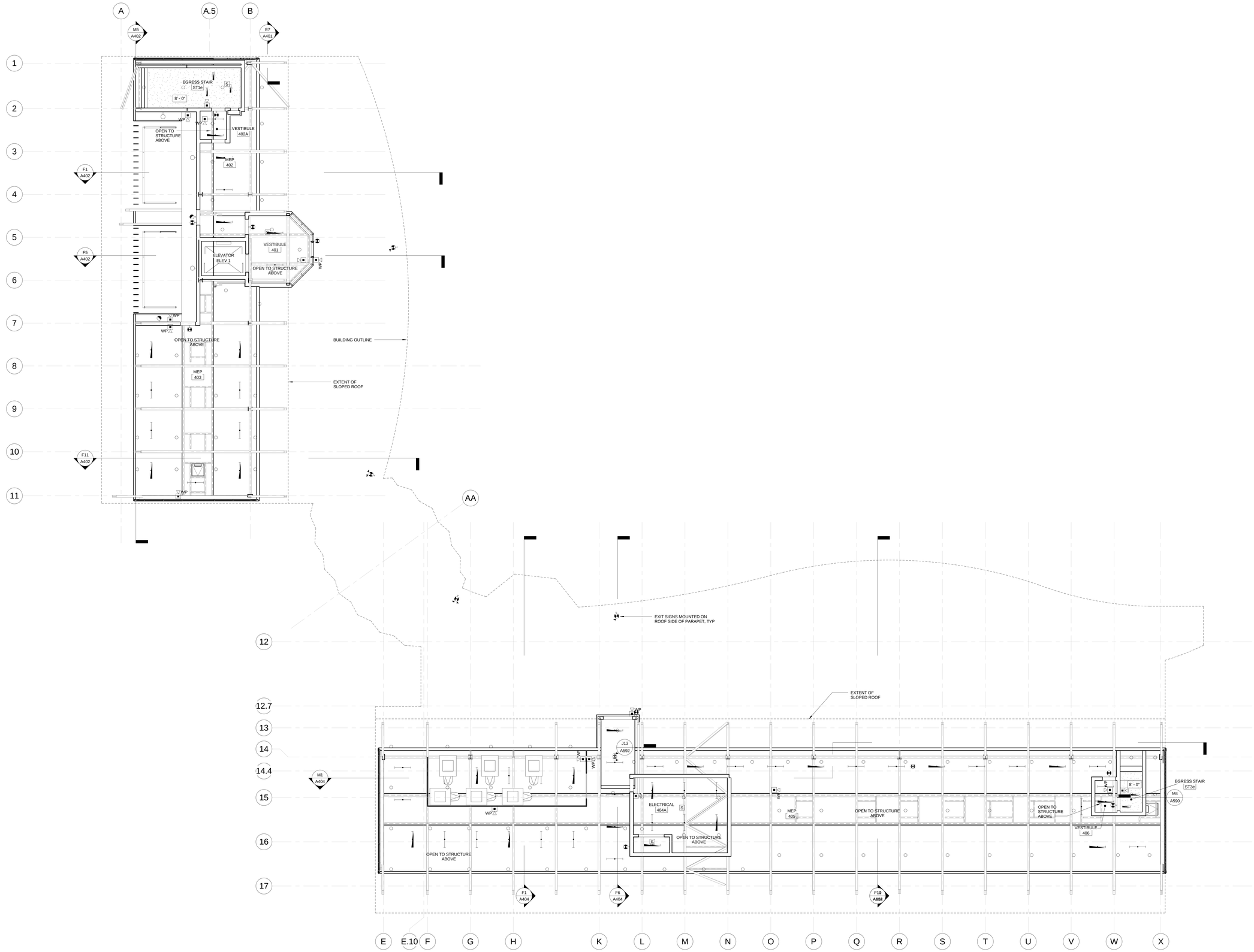
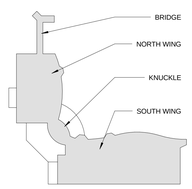


L1 FOURTH FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

PROJECT NORTH
0 4 8 16



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RCP LEGEND:

- SUPPLY REGISTER		- RECESSED DOWNLIGHT FIXTURE		- WALL MOUNTED LIGHT FIXTURE	
- RETURN REGISTER		- RECESSED OR SURFACE-MOUNTED FIXTURE		- OCCUPANCY SENSOR W / POWER PACK (WALL / CEILING)	
- LINEAR DIFFUSER		- OPEN LAMP LIGHT FIXTURE	S	- SMOKE DETECTOR	
- PENDANT LIGHT FIXTURE		- LIGHT FIXTURE (PART OF EMERGENCY ILLUMINATION SYSTEM)	H	- HEAT DETECTOR	
- LINEAR LIGHT FIXTURE		- CEILING OR WALL-MOUNTED EXIT LIGHT FIXTURE		- FIRE ALARM SPEAKER / STROBE	
- PENDANT MOUNTED LIGHT FIXTURE		- RECESSED WALL WASH DOWNLIGHT FIXTURE		- SPRINKLER HEAD	

RCP NOTES:

1. FULL COORDINATION OF SHOP DRAWINGS BETWEEN TRADES MUST BE SUBMITTED AND APPROVED PRIOR TO ELECTRICAL, HVAC, PLUMBING AND FIRE PROTECTION SERVICES BEING INSTALLED.
2. CENTER CEILING GRIDS IN ROOMS UNLESS OTHERWISE NOTED OR INDICATED. PLACE LIGHT FUTURES AND OTHER ELECTRICAL, HVAC AND FIRE PROTECTION DEVICES AS SHOWN.
3. DO NOT USE LESS THAN 1/3 OF CEILING TILE WITHOUT APPROVAL OF THE ARCHITECT.
4. MEP / AV ITEMS SHOWN IN ARCHITECTURAL RCP'S ARE MEANT TO CONVEY DESIGN INTENT ONLY. REFER TO MEP / AV / LIGHTING DRAWINGS AND ALL OTHER TRADES FOR COMPLETE COORDINATION.
5. PROVIDE UNISTRUT SUPPORTS FOR SUSPENDED CEILINGS WHERE EXTENT OF DUCTWORK PROHIBITS TYPICAL HANGER INSTALLATION.
6. SEE MEP LEGEND FOR ANY EQUIPMENT / FIXTURES NOT IDENTIFIED IN THE RCP LEGEND.

RCP KEY NOTES:

1. PROVIDE EXTRUDED ALUMINUM EDGE TRIM AT PERIMETER OF SUSPENDED ACOUSTICAL PANEL CEILING. PAINT ALL EXPOSED SURFACES, EQUIPMENT, DEVICES AND ACCESSORIES ABOVE CEILING WITH-IN THE PERIMETER GAP - REFER TO DETAIL H1 / A921.
2. SUNSHADE. REFERENCE DETAIL ON SHEET A581
3. RAISED GWB POCKET FOR ROLLER SHADES
4. VIDEO CAMERA
5. FIBERGLASS DOME WITH PAINTED FINISH AND ROUND OPENING TO SKYLIGHT ABOVE
6. GWB AND METAL STUD SOFFIT
7. DRAFT CURTAIN
8. GWB AND METAL STUD SOFFIT ABOVE DOOR ENTRANCES
9. ARCHED GWB AND METAL STUD SOFFIT
10. SEISMIC EXPANSION CEILING JOINT SYSTEM
11. NOT USED
12. PROJECTOR AND ELECTRIC PROJECTOR SCREEN
13. SHORT THROW VIDEO PROJECTOR
14. VISUAL DISPLAY DRY-ERASE BOARD
15. CUSTOM LIGHT FIXTURE
16. PAINT ALL EXPOSED ARCHITECTURAL, MEP, STRUCTURAL, A/V AND ACCESSORY AND SUPPORT SURFACES AND EQUIPMENT ABOVE MTL-1 CEILING SYSTEM

drawing title: FOURTH FLOOR REFLECTED CEILING PLAN

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

volume 1 of 2
date 11-21-2012
scale As indicated
drawn by EL
checked by RMJ/BR
drawing no. A205

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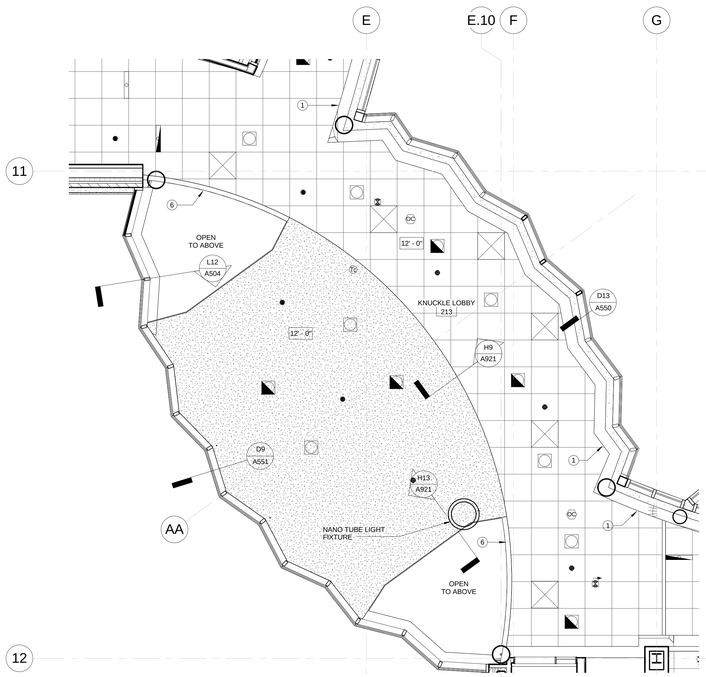
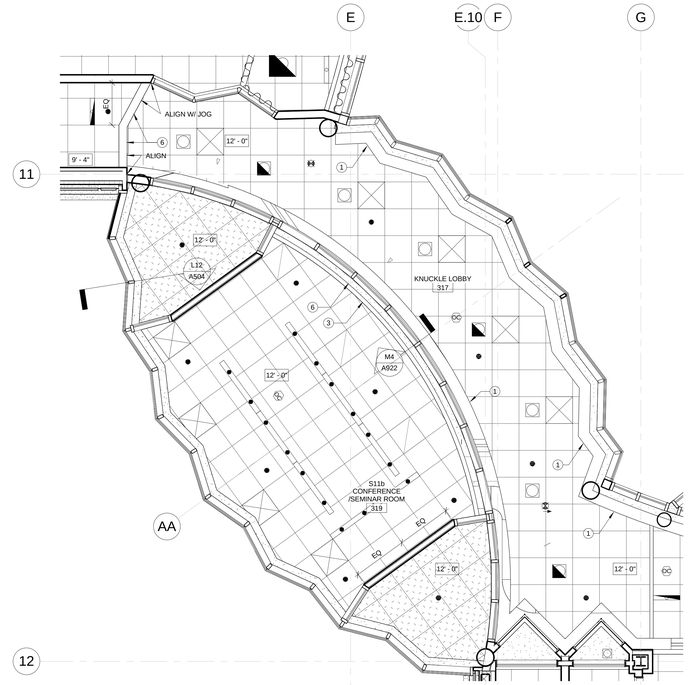
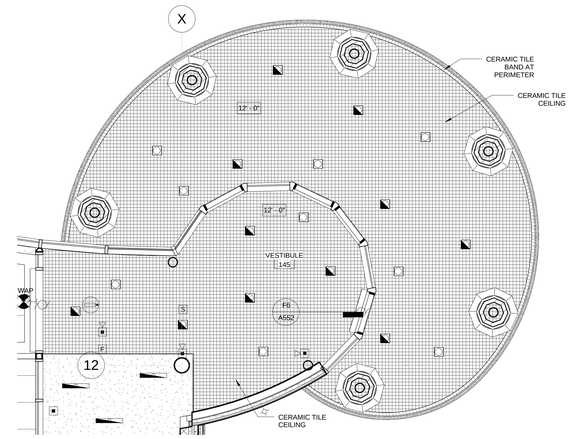


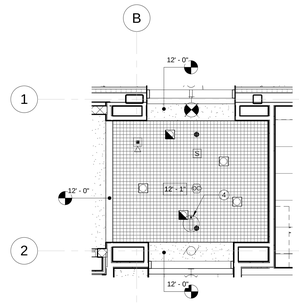
F1 ENLARGED RCP OF KNUCKLE - SECOND FLOOR
1/4" = 1'-0"



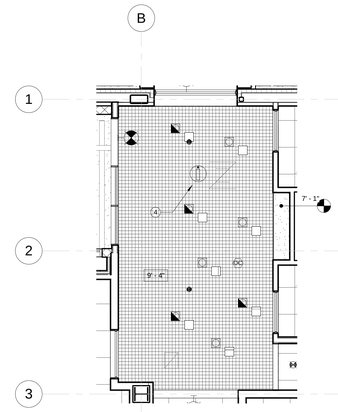
F6 ENLARGED RCP OF KNUCKLE - THIRD FLOOR
1/4" = 1'-0"



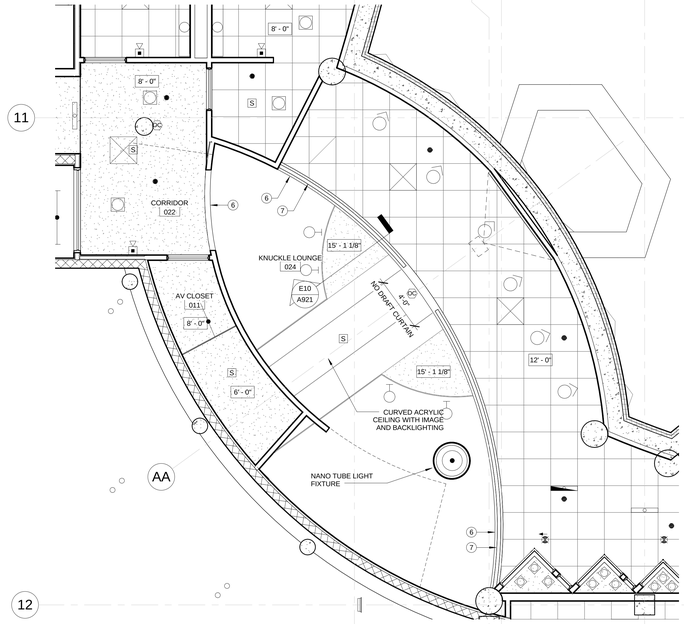
D12 ENLARGED RCP OF SOUTH WING CANOPY
1/4" = 1'-0"



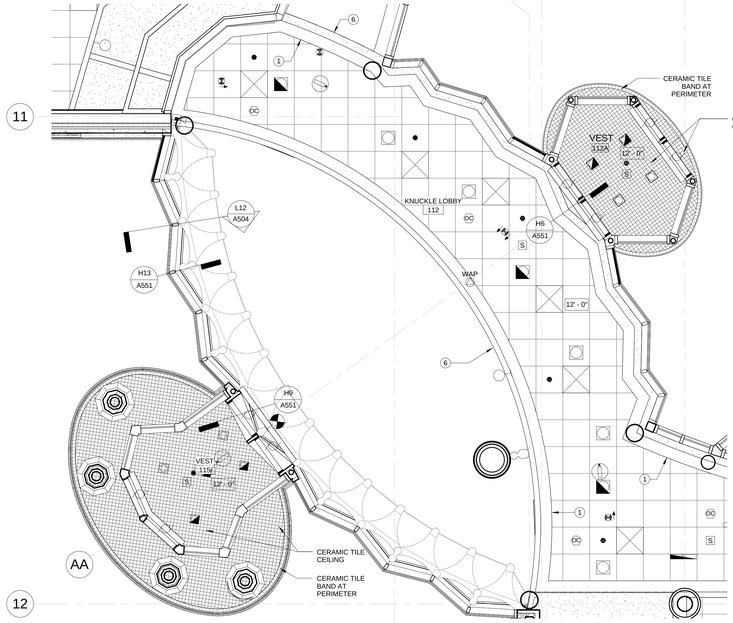
G11 ENLARGED RCP OF CORRIDOR 101
1/4" = 1'-0"



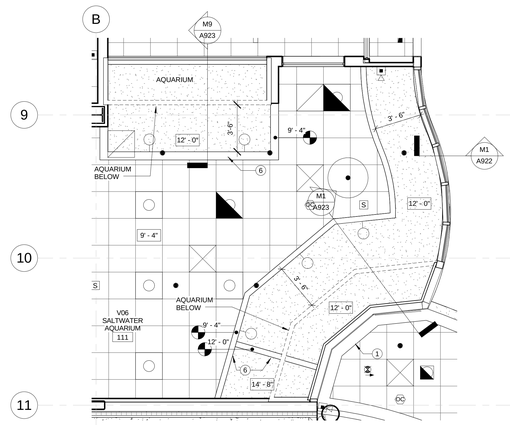
G13 ENLARGED RCP OF CORRIDOR 303
1/4" = 1'-0"



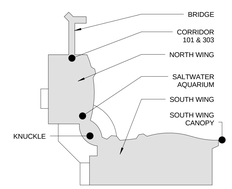
L1 ENLARGED RCP OF KNUCKLE - LOWER LEVEL
1/4" = 1'-0"



L6 ENLARGED RCP OF KNUCKLE - GROUND FLOOR
1/4" = 1'-0"



L11 ENLARGED RCP OF SALTWATER AQUARIUM
1/4" = 1'-0"



RCP CEILING TYPE LEGEND:

- ACP 1 THRU 7 — 2' x 2' ACP LAY IN CEILING
- GWB 1 THRU 4 — GYPSUM WALL BOARD
- CERAMIC TILE SOFFIT / CEILING
- ACP 1 THRU 7 — ACOUSTIC CEILING PANEL SYSTEMS 1 THRU 7 - REFER TO ROOM FINISH PLAN FOR COMPLETE DESIGNATION AND DESCRIPTION
- GWB 1 THRU 4 — GYPSUM WALL BOARD CEILING SYSTEM 1 THRU 4 - - REFER TO ROOM FINISH SCHEDULE FOR COMPLETE DESIGNATION AND DESCRIPTION
- ACT 1 — APPLIED CEILING TILES
- MET-1 — METAL LAY IN CEILING SYSTEM
- APPLIED CEILING TILE SYSTEM 1 - - REFER TO ROOM FINISH PLAN FOR COMPLETE DESIGNATION AND DESCRIPTION

RCP LEGEND:

- SUPPLY REGISTER
- RETURN REGISTER
- LINEAR DIFFUSER
- PENDANT LIGHT FIXTURE
- LINEAR LIGHT FIXTURE
- PENDANT MOUNTED LIGHT FIXTURE
- RECESSED DOWNLIGHT FIXTURE
- RECESSED OR SURFACE-MOUNTED FIXTURE
- OPEN LAMP LIGHT FIXTURE
- LIGHT FIXTURE (PART OF EMERGENCY ILLUMINATION SYSTEM)
- CEILING OR WALL-MOUNTED EXIT LIGHT FIXTURE
- RECESSED WALL WASH DOWNLIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- OCCUPANCY SENSOR W / POWER PACK (WALL / CEILING)
- SMOKE DETECTOR
- HEAT DETECTOR
- FIRE ALARM SPEAKER / STROBE
- SPRINKLER HEAD

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FINAL TITLE
ENLARGED REFLECTED CEILING PLANS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PROVIDED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

drawing 1 of 2
date 11-21-2012
scale As indicated
drawn by EL
reviewed by RMJBR
drawing no. A206

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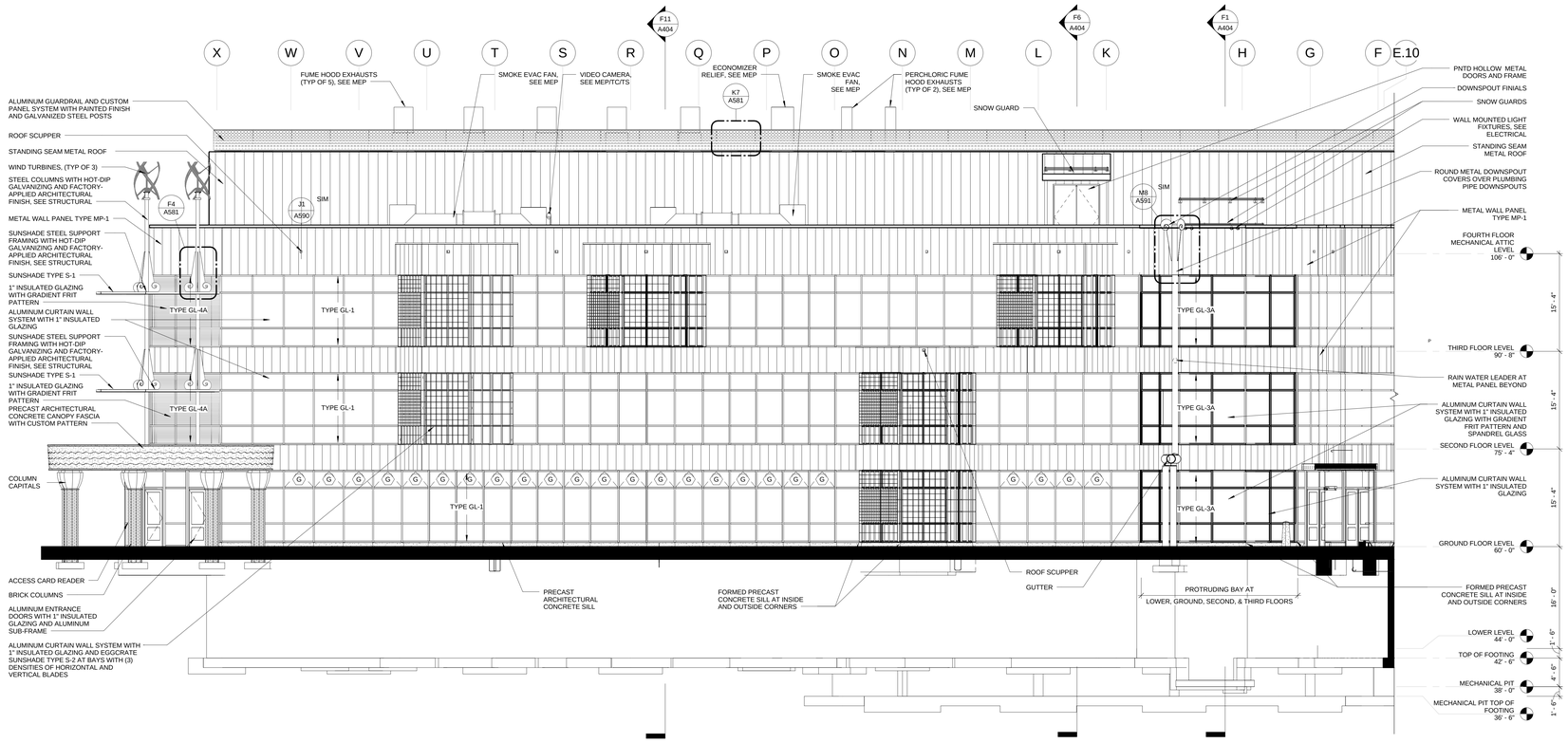
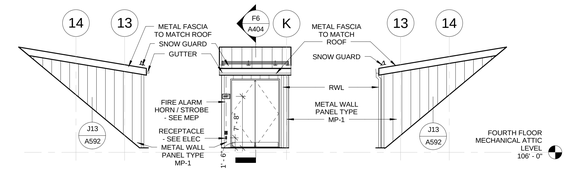


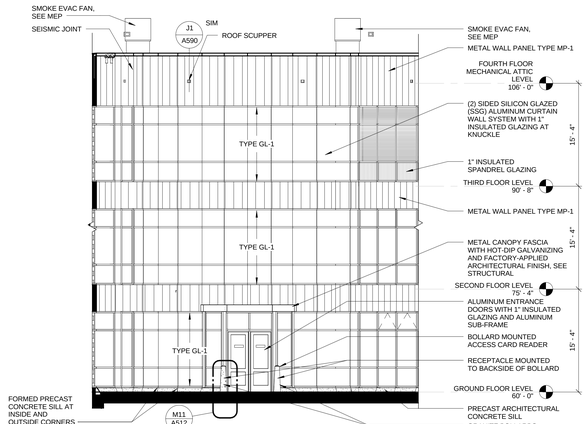
F1 EAST ELEVATION OF SOUTH WING
1/8" = 1'-0"



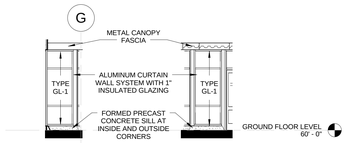
B12 SOUTH MEP DOOR @ SOUTH WING
1/8" = 1'-0"

B13 EAST MEP DOOR @ SOUTH WING
1/8" = 1'-0"

B14 NORTH MEP DOOR @ SOUTH WING
1/8" = 1'-0"

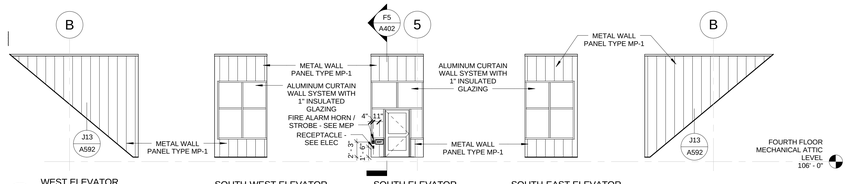


E12 SOUTH-EAST ELEVATION
1/8" = 1'-0"



F13 VEST 112A SIDE 1
1/8" = 1'-0"

F14 VEST 112A SIDE 2
1/8" = 1'-0"



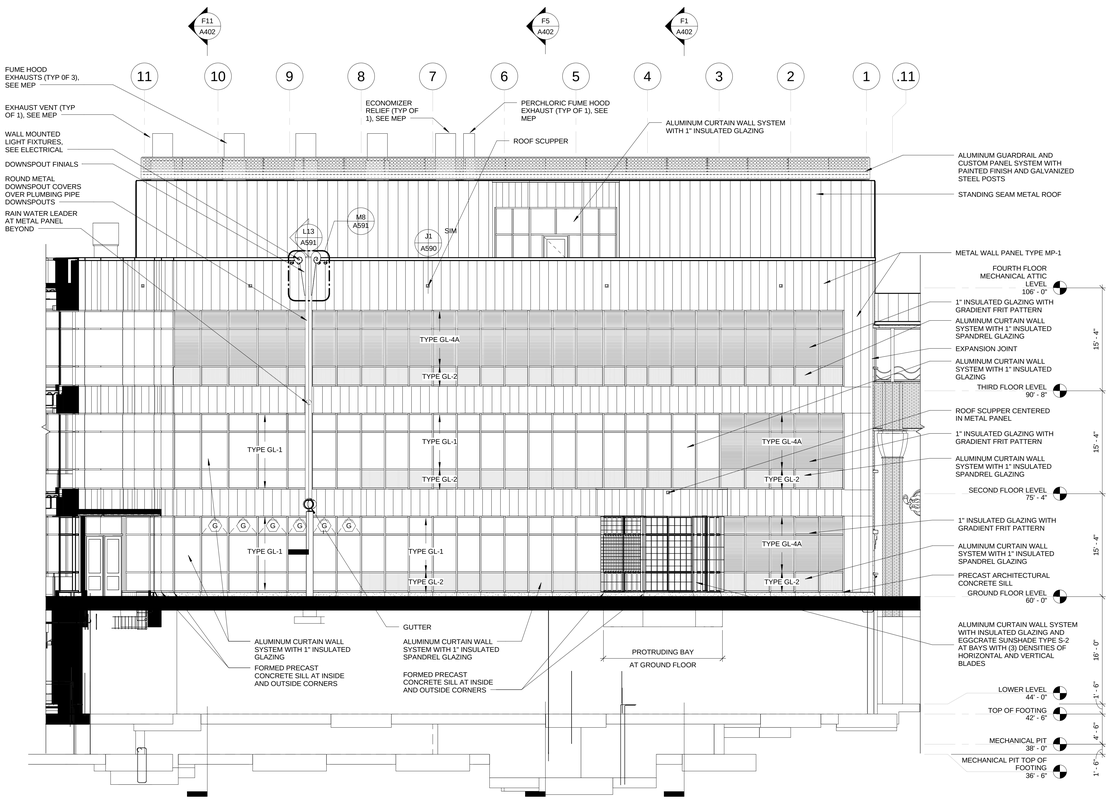
H8 WEST ELEVATOR VESTIBULE
1/8" = 1'-0"

H9 SOUTH-WEST ELEVATOR VESTIBULE
1/8" = 1'-0"

H10 SOUTH ELEVATOR VESTIBULE
1/8" = 1'-0"

H12 SOUTH-EAST ELEVATOR VESTIBULE
1/8" = 1'-0"

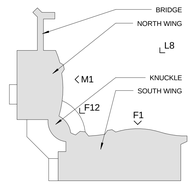
H13 EAST ELEVATOR VESTIBULE
1/8" = 1'-0"



M1 SOUTH ELEVATION OF NORTH WING
1/8" = 1'-0"

L8 PERSPECTIVE VIEW LOOKING NORTH INTO SCIENCE QUAD

NOTE - FOR ILLUSTRATIVE PURPOSES ONLY



drawing title: EXTERIOR ELEVATIONS

REVISIONS

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	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING: Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD file: 1393 | project no.: BI-RS-283

volume: 1 of 2
date: 11-21-2012
scale: As indicated
drawn by: LT/AS
approved by: RM/JBR
sheet no.: A301

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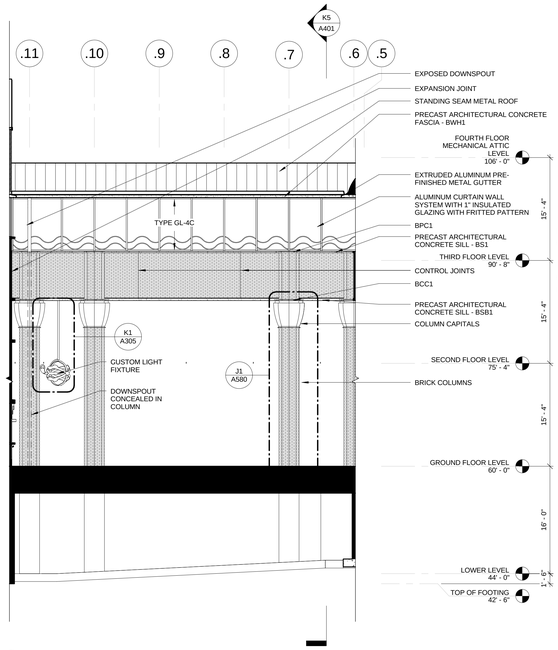
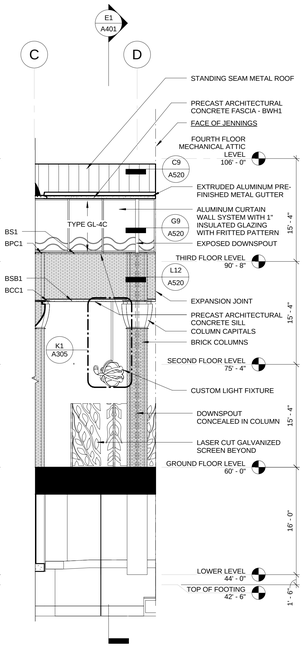
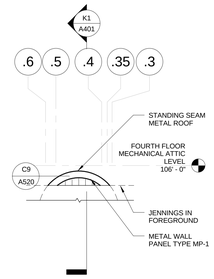


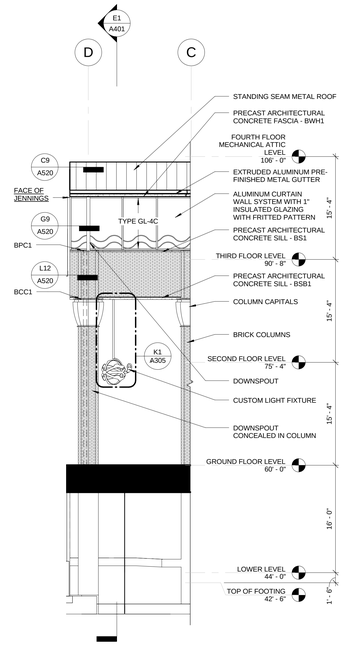
E1 SOUTH ELEVATION OF BRIDGE
1/8" = 1'-0"



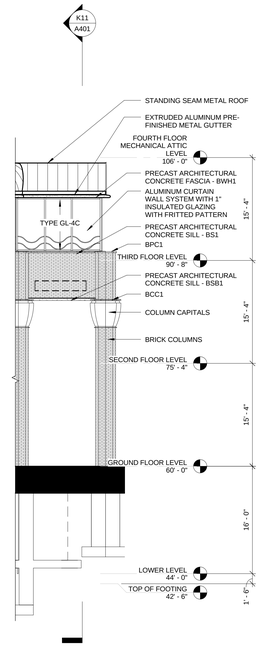
E5 WEST ELEVATION OF BRIDGE
1/8" = 1'-0"



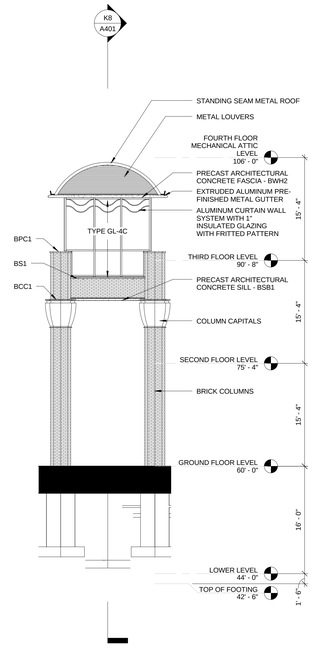
E6 SOUTH ELEVATION OF BRIDGE AT JENNINGS CONNECTION
1/8" = 1'-0"



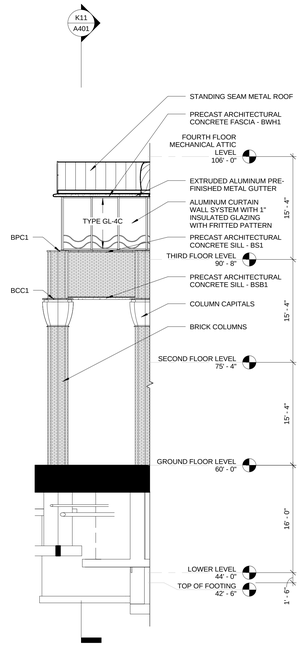
E8 EAST ELEVATION OF BRIDGE
1/8" = 1'-0"



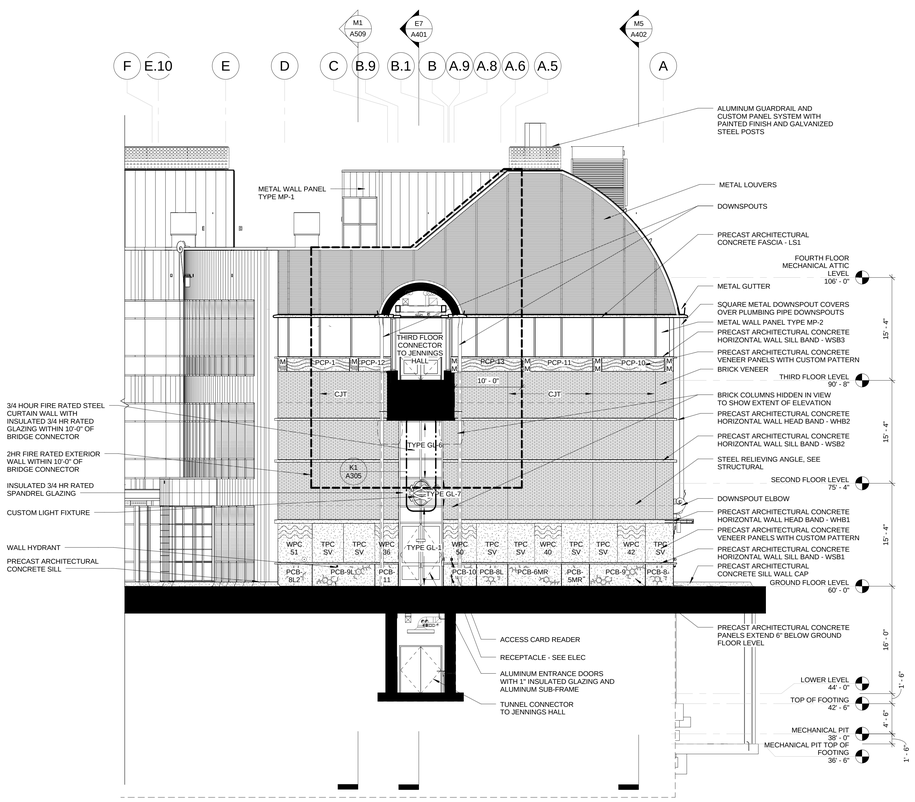
E10 SOUTH-EAST ELEVATION OF BRIDGE
1/8" = 1'-0"



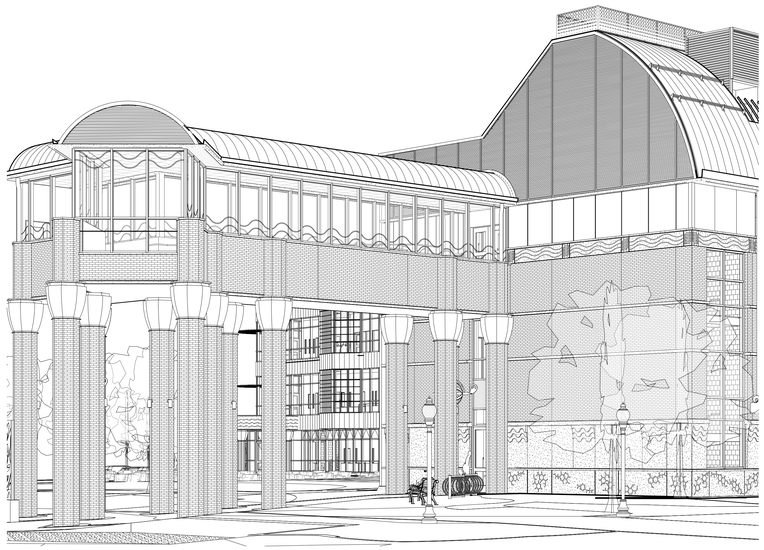
E12 NORTH-EAST ELEVATION OF BRIDGE
1/8" = 1'-0"



E14 NORTH-WEST ELEVATION OF BRIDGE
1/8" = 1'-0"

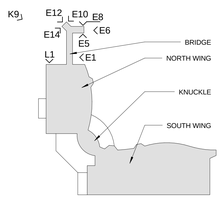


L1 EAST ELEVATION OF NORTH WING
1/8" = 1'-0"



K9 PERSPECTIVE VIEW LOOKING SOUTH WEST AT BRIDGE

NOTE - FOR ILLUSTRATIVE PURPOSES ONLY



drawing title
EXTERIOR ELEVATIONS

REVISIONS

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STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING DEVELOPED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

sheet no. 1 of 2
date 11-21-2012
scale As indicated
drawn by LT/AS
checked by RMJBR
drawing no. A302

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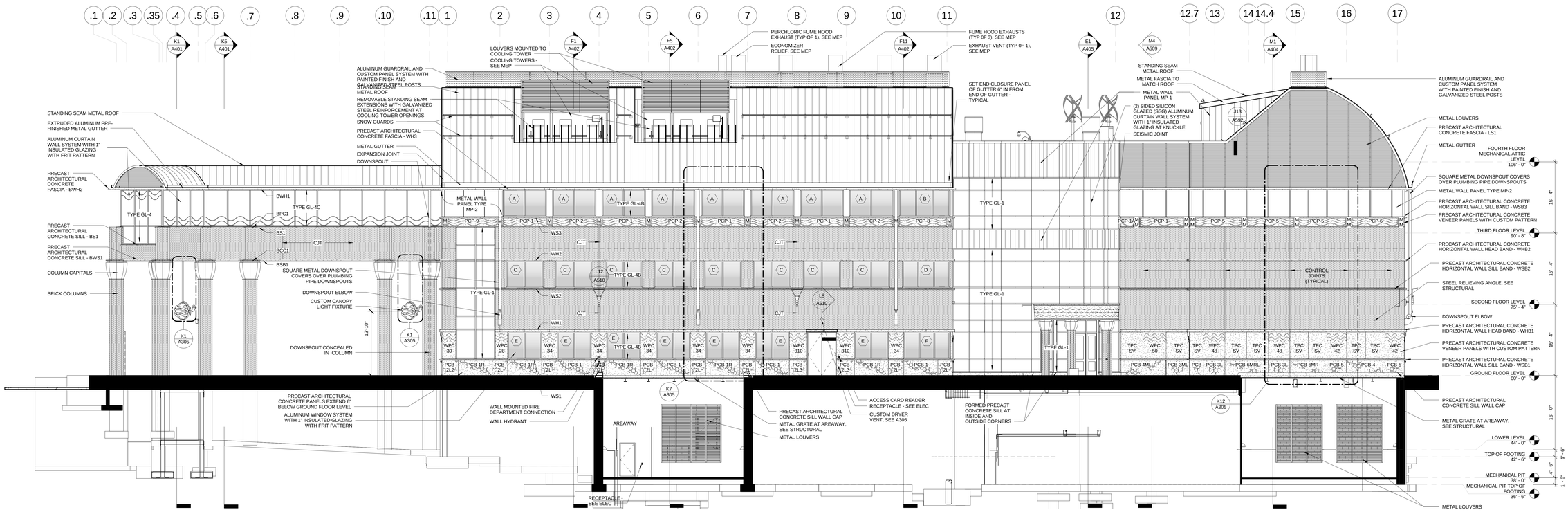
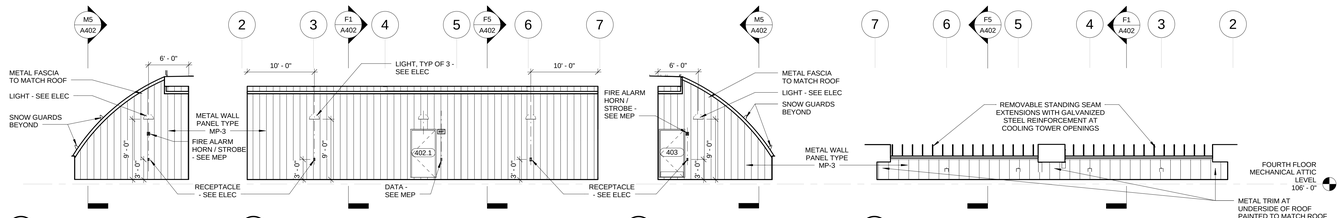


F1 NORTH ELEVATION
1/8" = 1'-0"

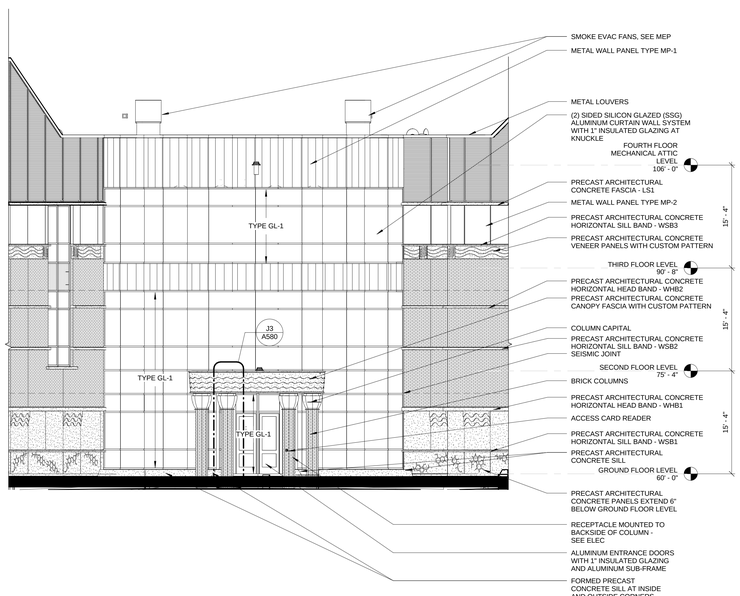


G4 WEST ELEVATION AT COOLING TOWERS
1/8" = 1'-0"

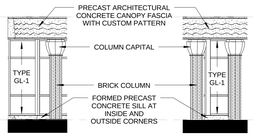
G5 NORTH ELEVATION AT COOLING TOWERS
1/8" = 1'-0"

G8 EAST ELEVATION AT COOLING TOWERS
1/8" = 1'-0"

G9 SOUTH ELEVATION AT COOLING TOWERS
1/8" = 1'-0"

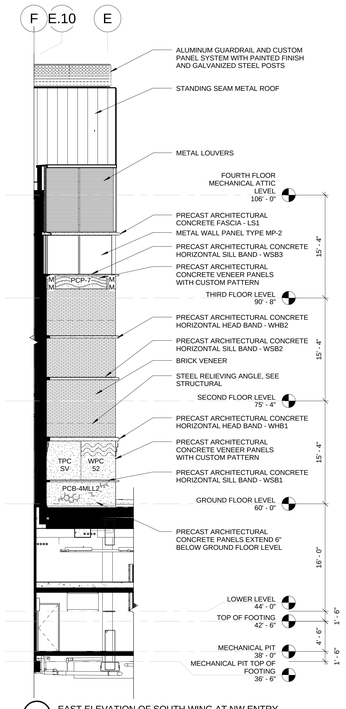


M1 NORTH-WEST ELEVATION
1/8" = 1'-0"

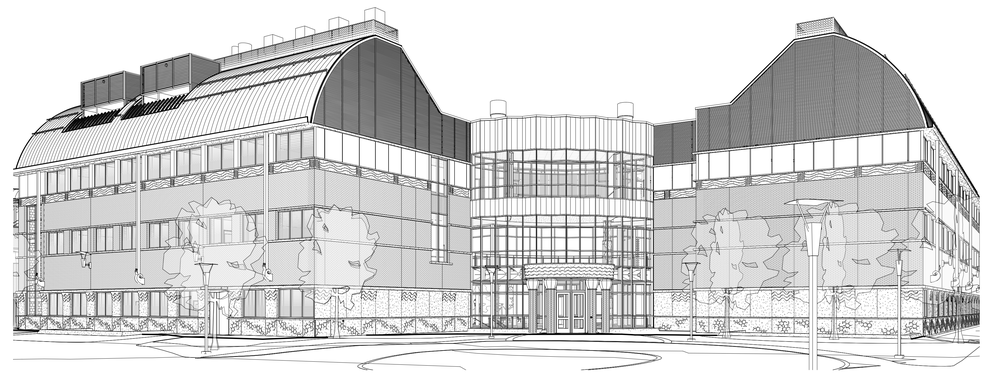


L6 VEST 115 SIDE 1 AND 2
1/8" = 1'-0"

L7 VEST 115 SIDE 3
1/8" = 1'-0"

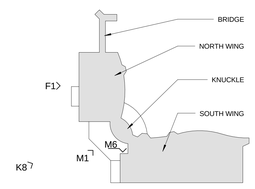


M8 EAST ELEVATION OF SOUTH WING AT NW ENTRY
1/8" = 1'-0"



L10 PERSPECTIVE VIEW LOOKING SOUTH

NOTE - FOR ILLUSTRATIVE PURPOSES ONLY



drawing title: EXTERIOR ELEVATIONS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

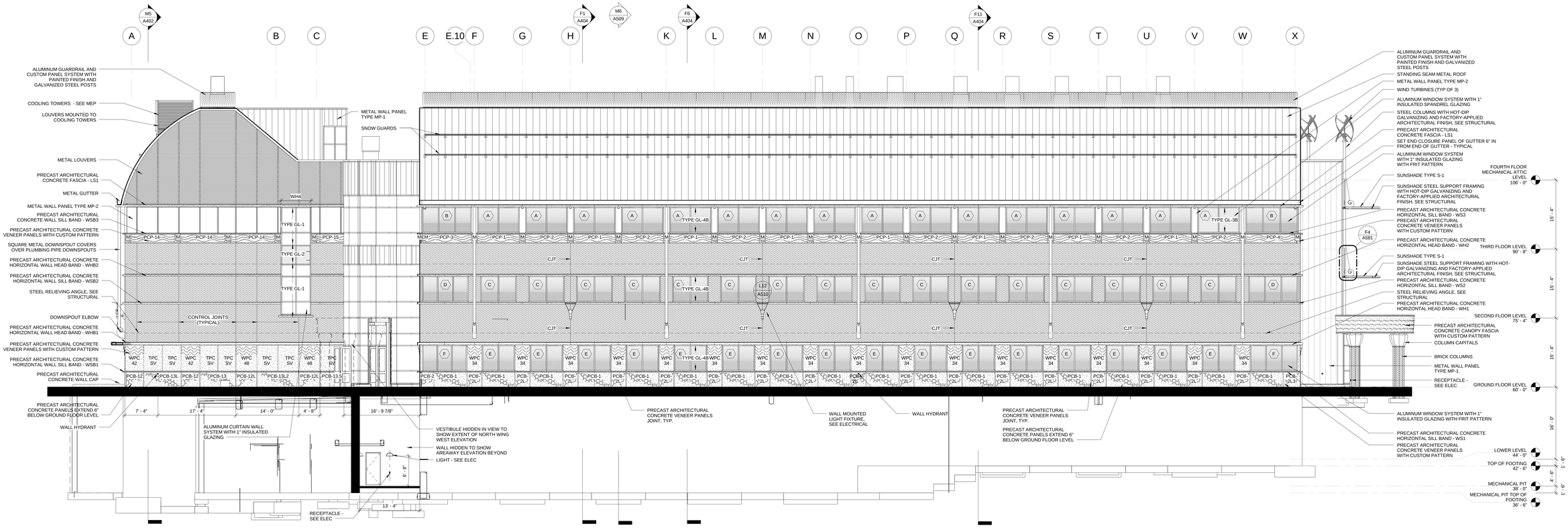
DRAWING: Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

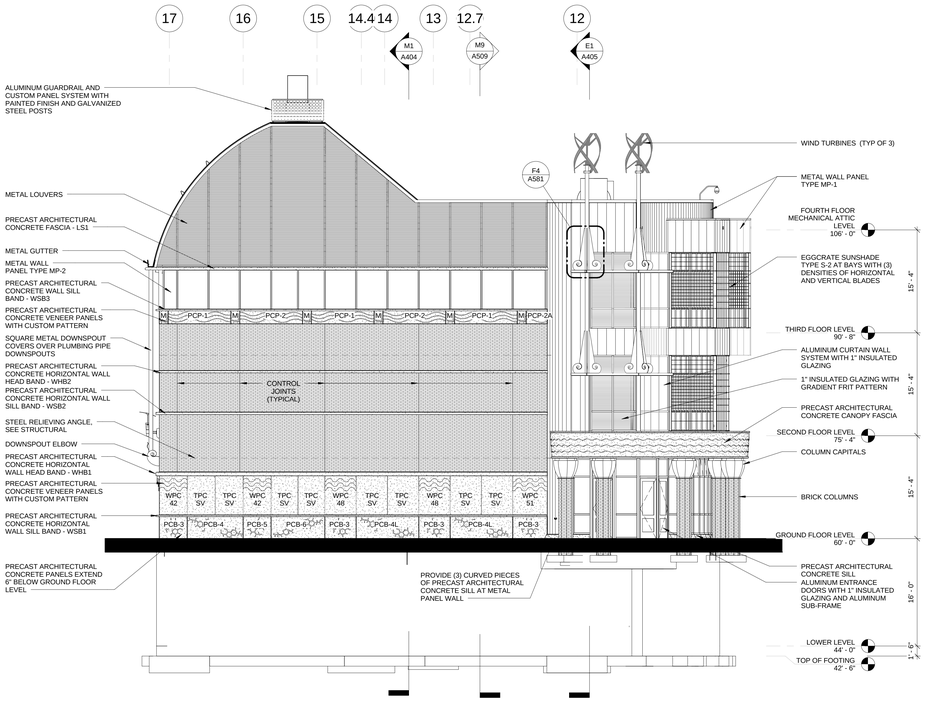
CAD: 1393 project no.: BI-RS-283

volume: 1 of 2
date: 11-21-2012
scale: As indicated
drawn by: LT/AS
approved by: RM/JBR
number: A303

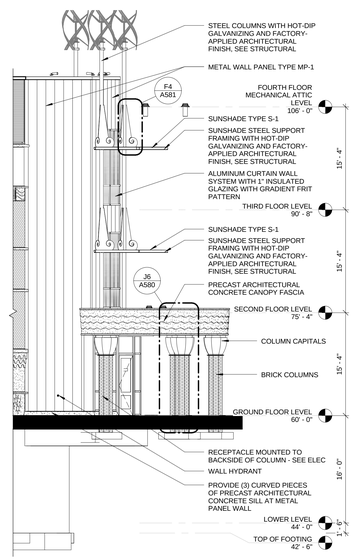
Clifford Lloyd Red 793 SCSU New Academic and Laboratory Building 013 Catalog Graphics 11/21/2012 11:53:24 AM



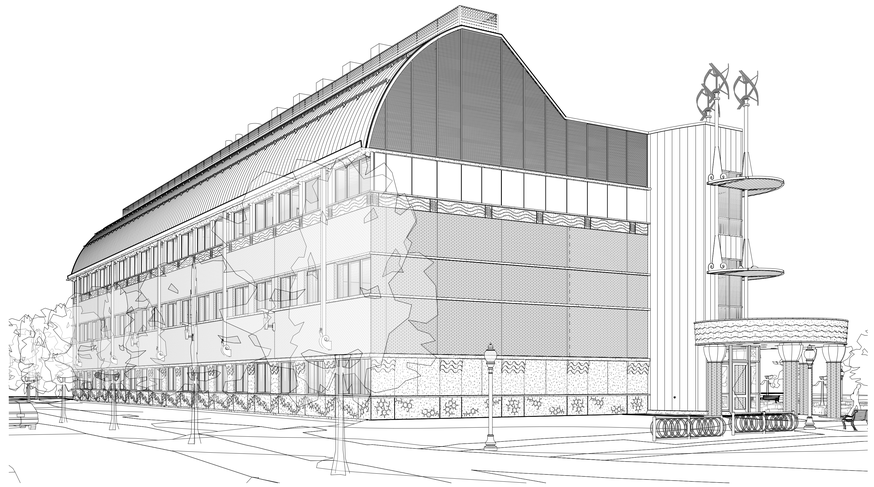
F1 WEST ELEVATION
1/8" = 1'-0"



M1 SOUTH ELEVATION OF SOUTH WING
1/8" = 1'-0"

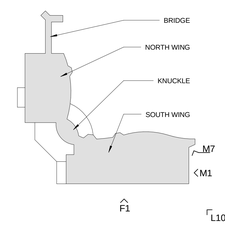


M7 WEST ELEVATION OF SOUTH WING VESTIBULE
1/8" = 1'-0"



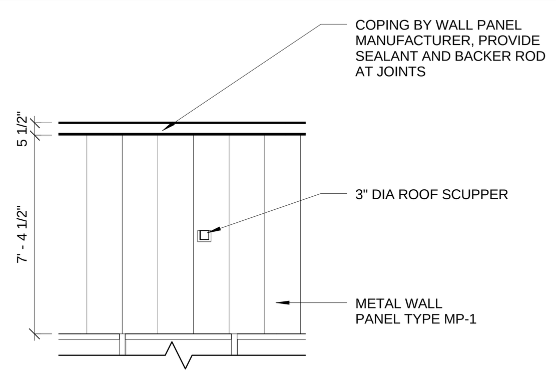
L10 PERSPECTIVE VIEW LOOKING NORTH

NOTE - FOR ILLUSTRATIVE PURPOSES ONLY

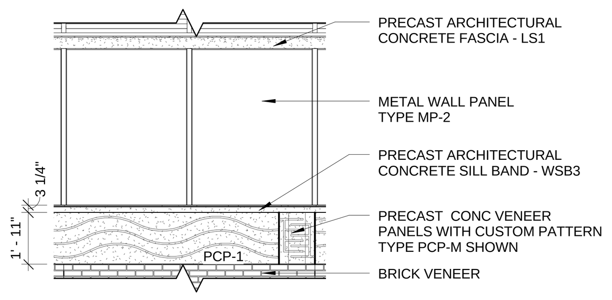


EXTERIOR ELEVATIONS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		sheet of 1 of 2
REVISIONS			date 11-21-2012
mark / date / description	DRAWING PREPARED BY Centerbrook Architects and Planners, LLP 67 Main Street Post Office Box 955 Centerbrook, Connecticut 06409-0955		scale As indicated
11-21-2012 Bid Documents			drawn by LT/AS
	project SCSU NEW ACADEMIC LABORATORY BUILDING		checked by RMJ/BR
	CAD no. 1393 / project no. BI-RS-283		drawing no. A304

Collins Local Hall PB SCSU New Academic and Laboratory Building A-17 Certificate_Graphics 1/21/2012 11:54:44 AM



B1 EXTERIOR MOCK-UP AT MP-1
1/4" = 1'-0"



B3 EXTERIOR MOCK-UP AT MP-2
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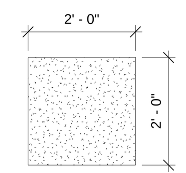
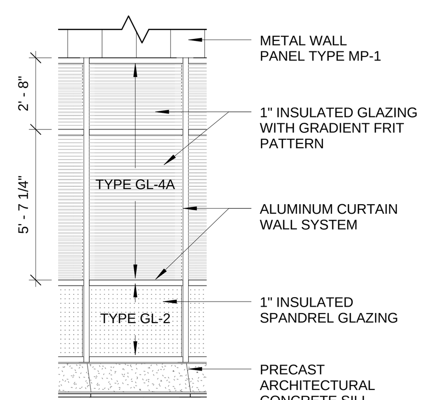
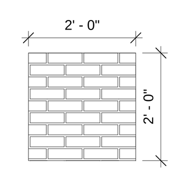


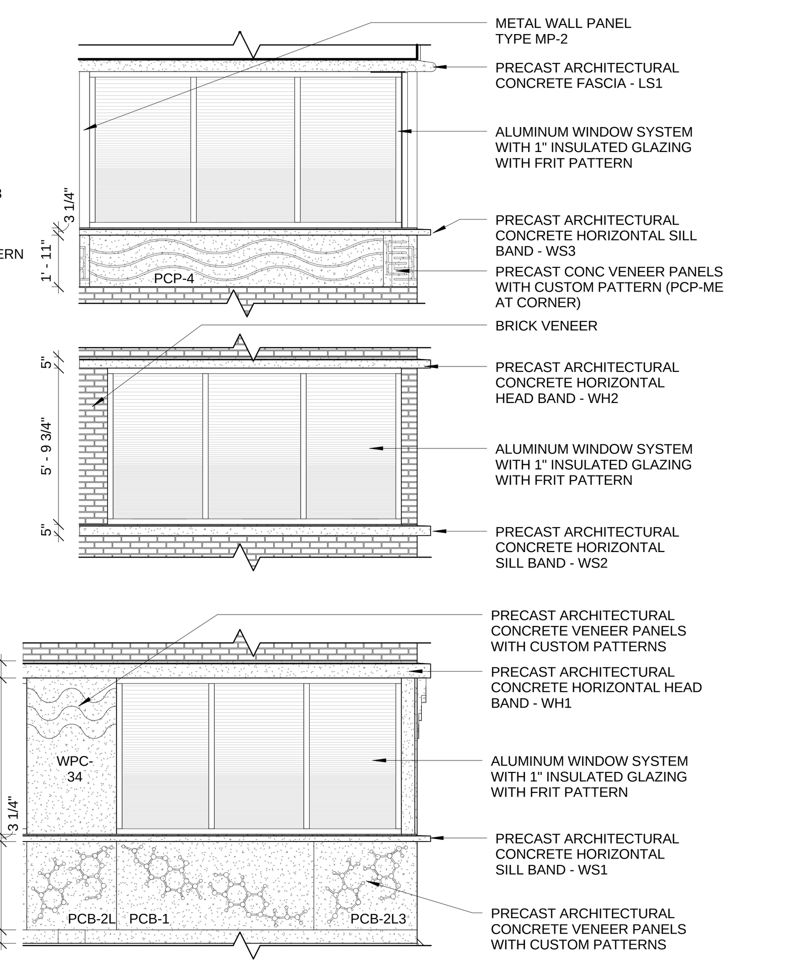
C3 PRECAST ARCHITECTURAL CONCRETE COLOR MATCH MOCK-UP
1/2" = 1'-0"



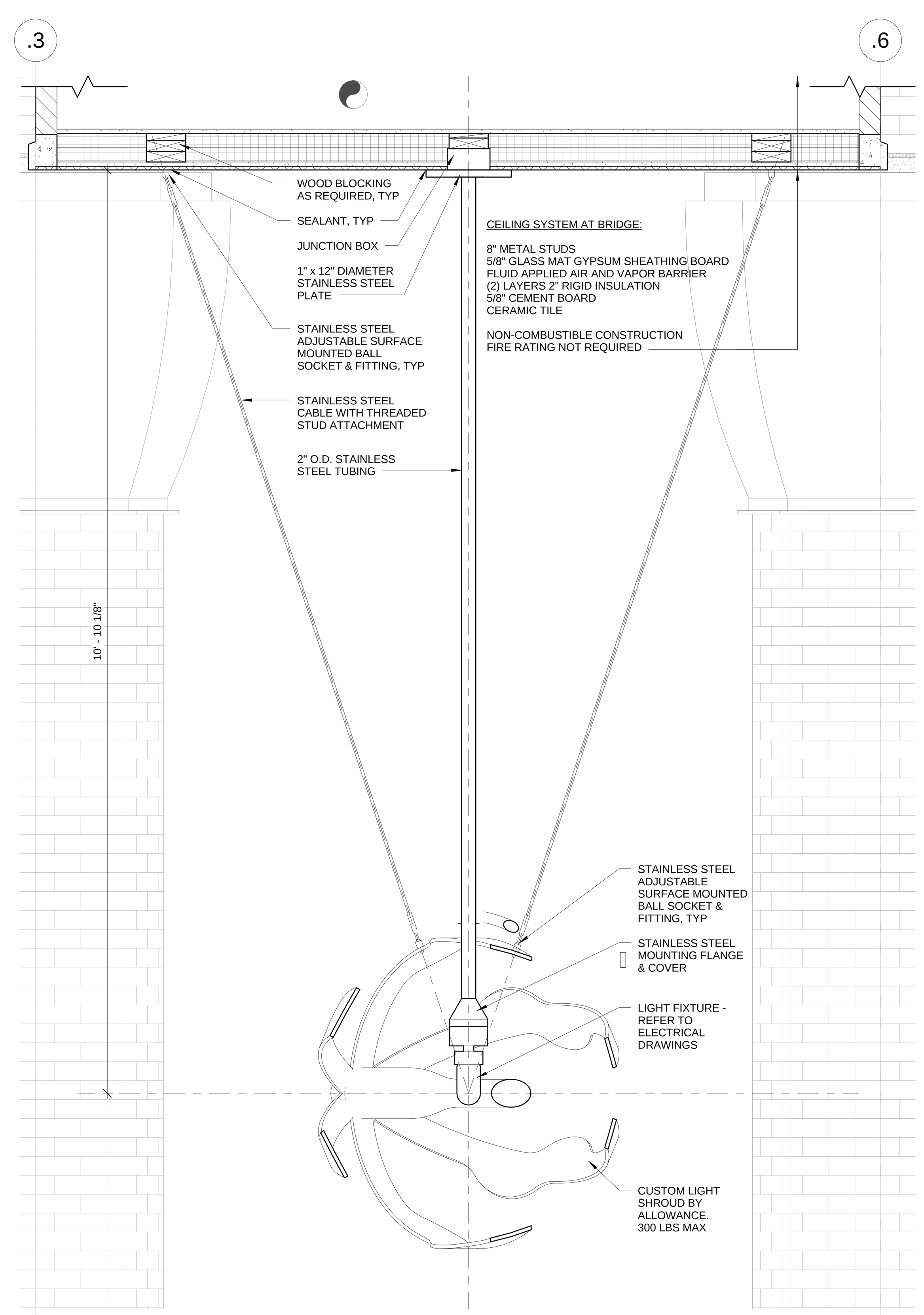
D1 EXTERIOR MOCK-UP AT CURTAIN WALL
1/4" = 1'-0"



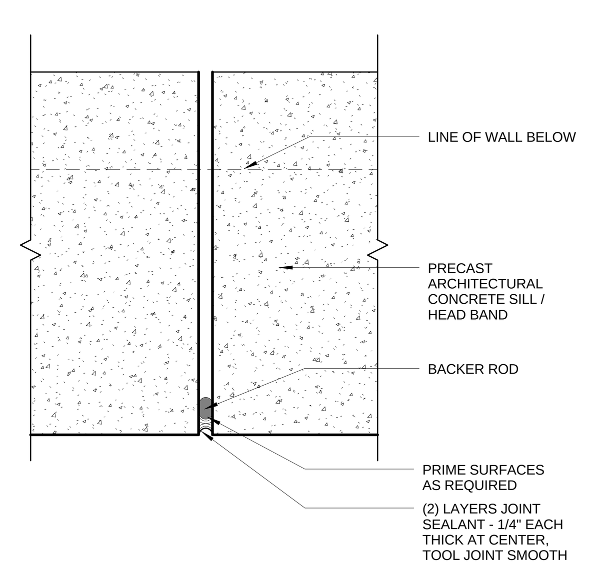
D3 BRICK VENEER COLOR MATCH MOCK-UP
1/2" = 1'-0"



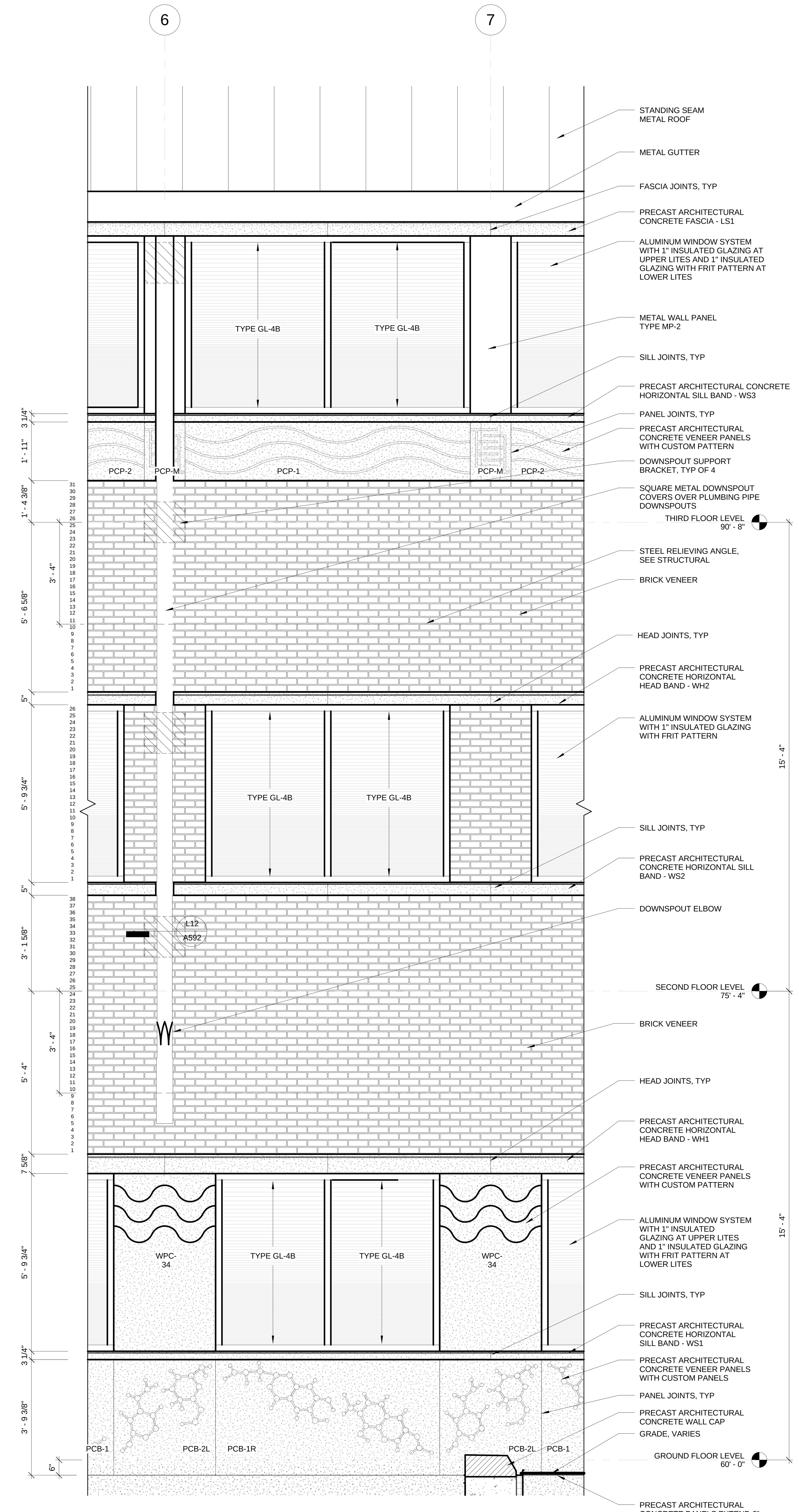
D4 EXTERIOR MOCK-UP AT ALUMINUM WINDOWS AND PRECAST ARCHITECTURAL CONCRETE
1/4" = 1'-0"



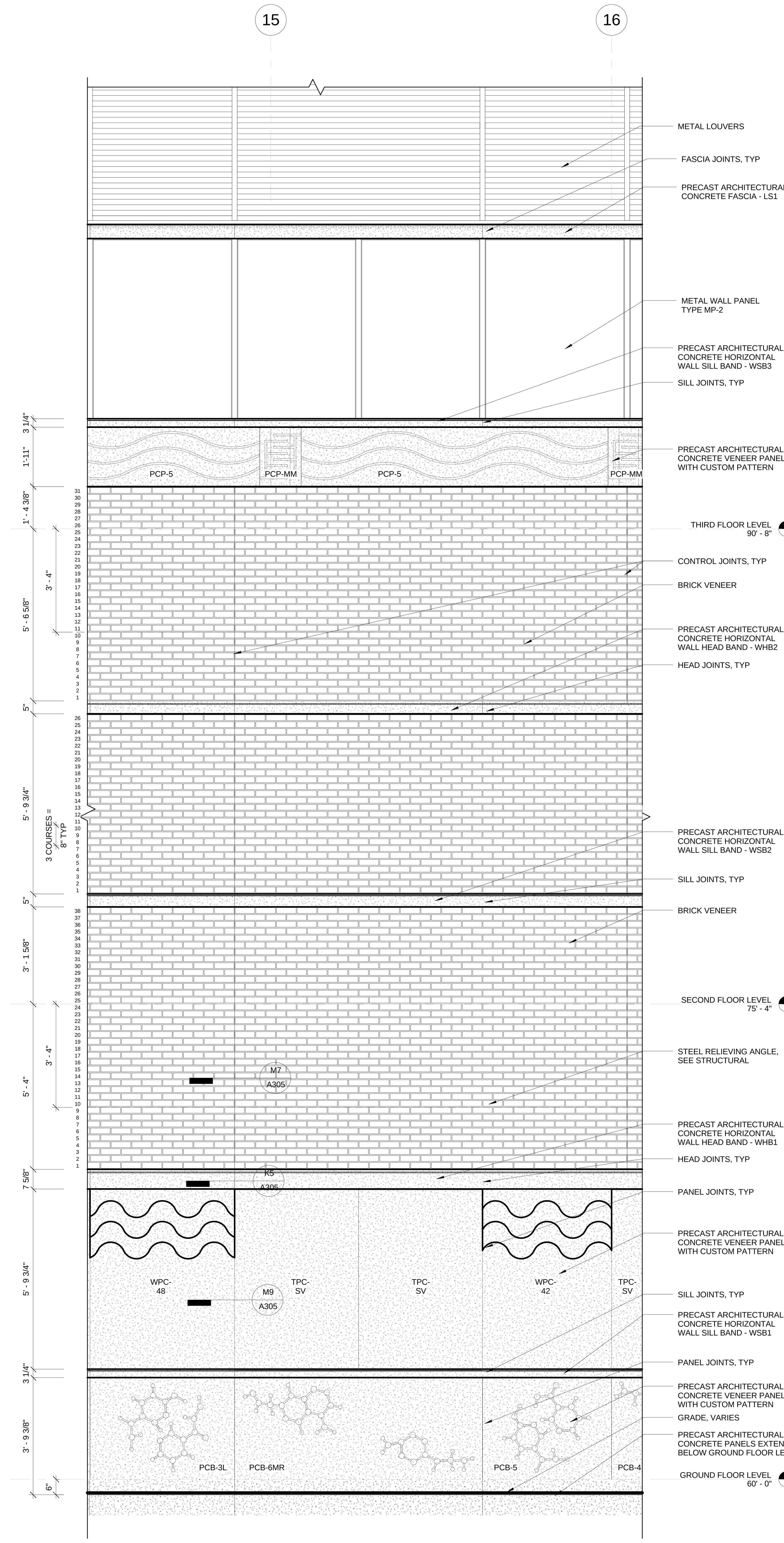
K1 CUSTOM LIGHT FIXTURE DETAIL
1" = 1'-0"



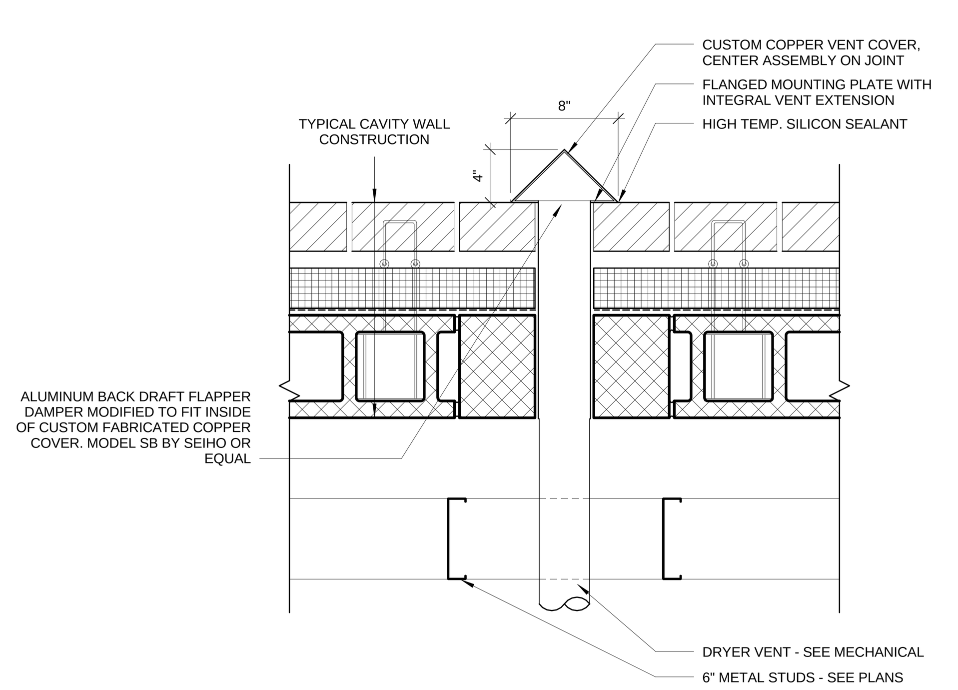
K5 TYPICAL VERTICAL CONTROL JOINT DETAIL AT PRECAST SILL AND HEAD BANDS
3" = 1'-0"



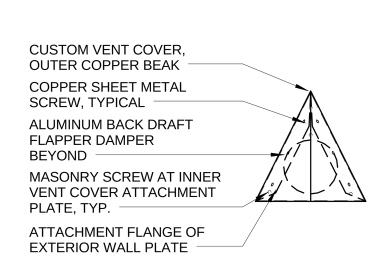
K7 TYPICAL DETAIL ELEVATION
1/2" = 1'-0"



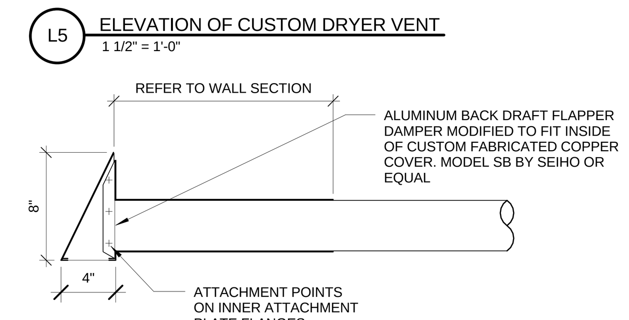
K12 TYPICAL DETAIL GABLE END ELEVATION
1/2" = 1'-0"



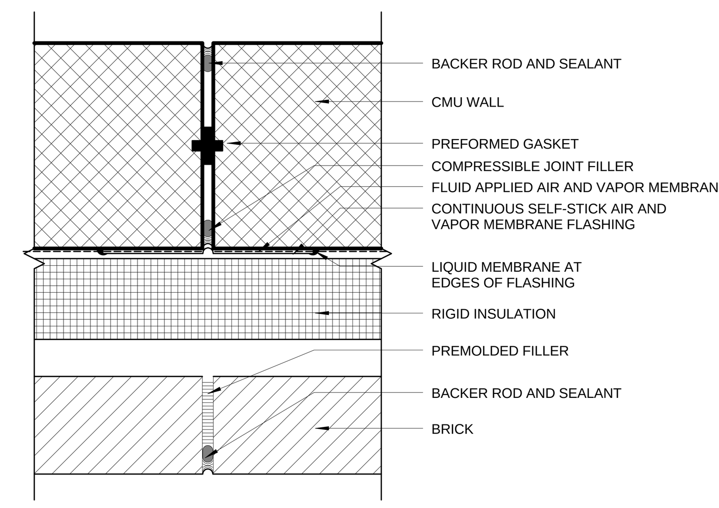
M1 PLAN DETAIL AT DRYER VENT
1 1/2" = 1'-0"



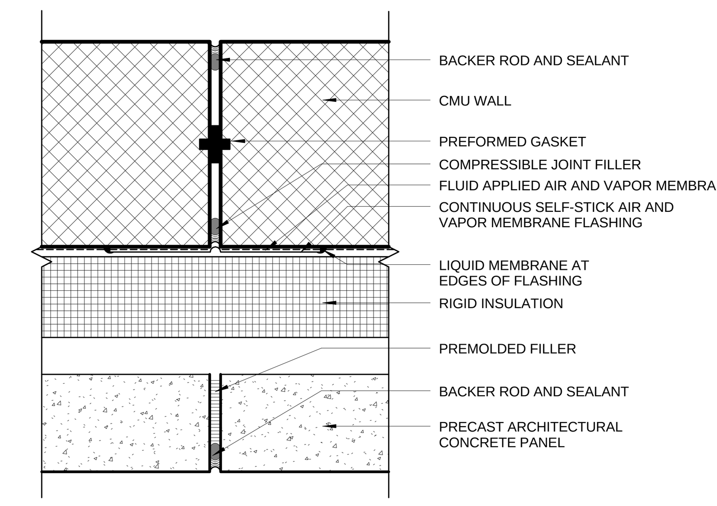
L5 ELEVATION OF CUSTOM DRYER VENT
1 1/2" = 1'-0"



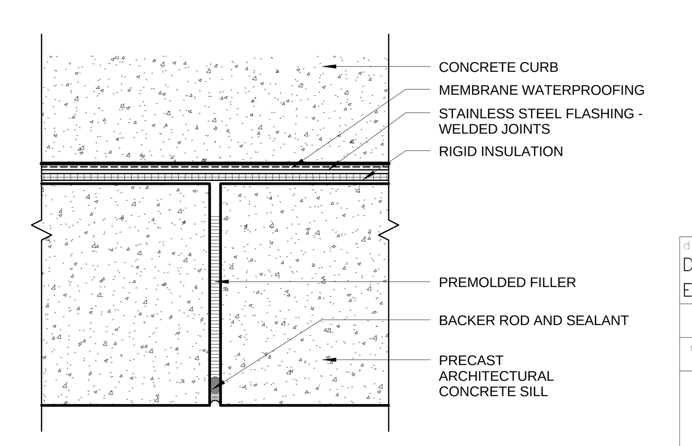
M5 SECTION DETAIL OF CUSTOM DRYER VENT
1 1/2" = 1'-0"



M7 TYPICAL VERTICAL CONTROL JOINT DETAIL AT BRICK FACADE
3" = 1'-0"



M9 TYPICAL VERTICAL CONTROL JOINT DETAIL AT PRECAST WALL PANEL
3" = 1'-0"



M12 TYPICAL JOINT DETAIL AT PRECAST SILL
3" = 1'-0"

drawing title: DETAIL EXTERIOR ELEVATIONS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393 | project no. BI-RS-283

volume: 1 of 2
date: 11-21-2012
scale: As indicated
drawn by: LT/AS/KEC
approved by: RM/JBR
drawing no. A305

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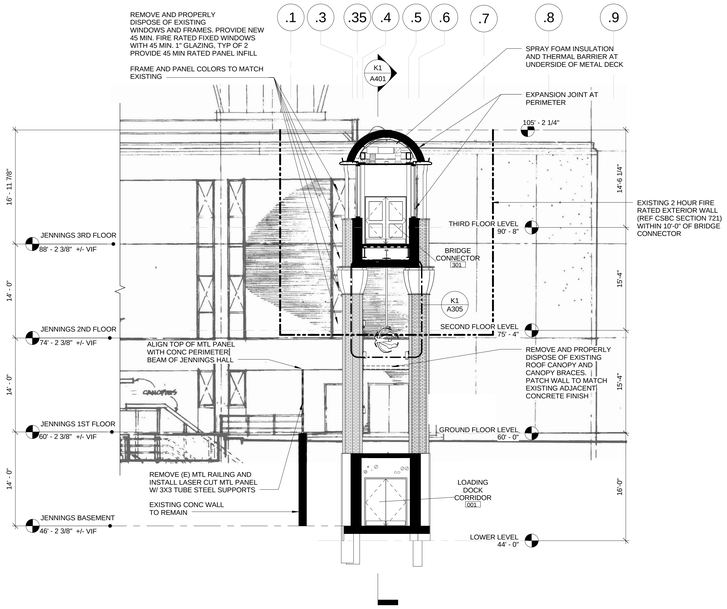
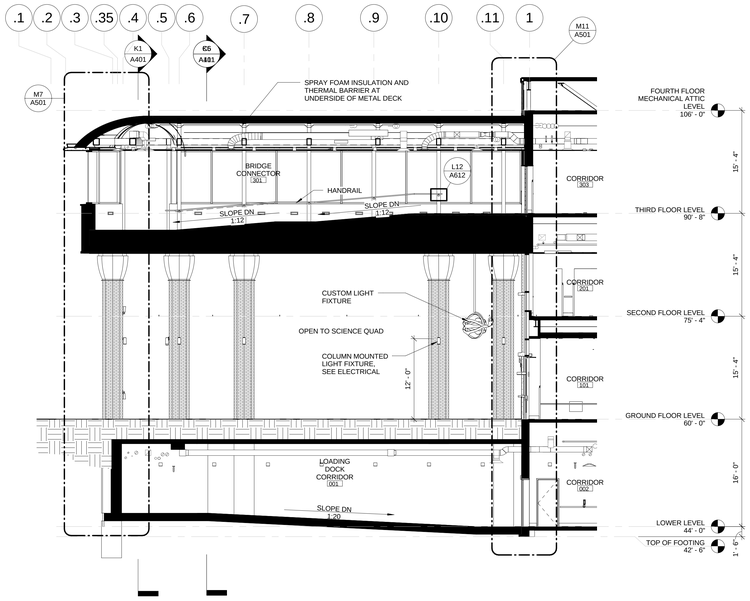
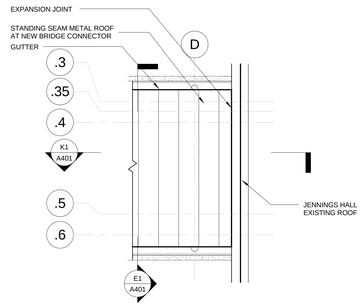


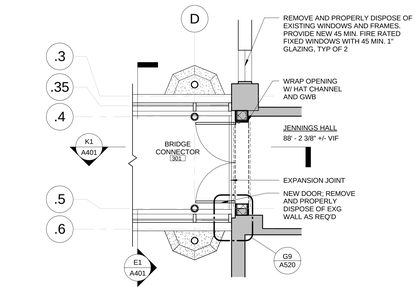
E1 EAST WEST SECTION THROUGH BRIDGE AND TUNNEL AT JENNINGS
1/8" = 1'-0"



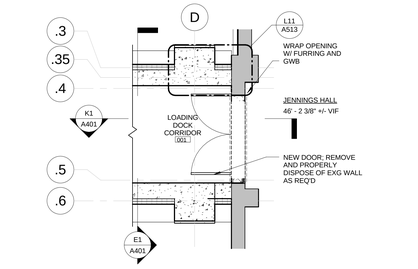
E7 EAST WEST SECTION THROUGH BRIDGE AND TUNNEL
1/8" = 1'-0"



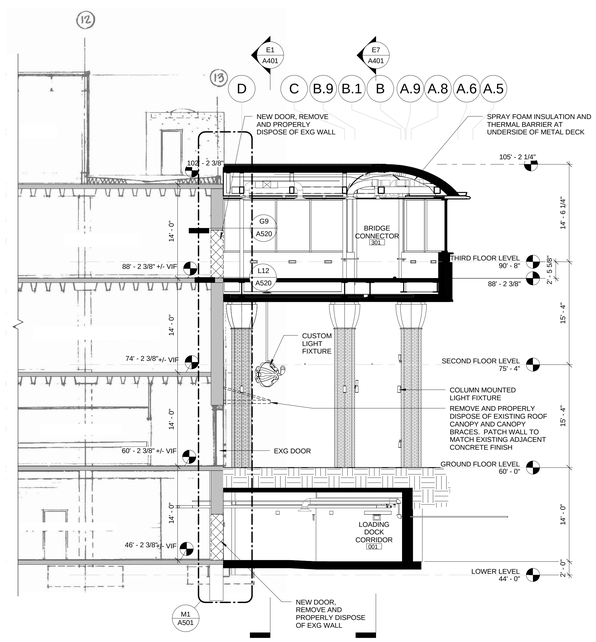
D13 ENLARGED PLAN OF ROOF CONNECTION TO JENNINGS - ROOF PLAN
1/4" = 1'-0"



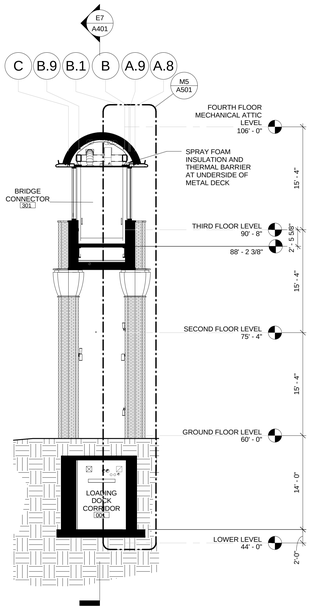
G13 ENLARGED PLAN OF BRIDGE CONNECTTION TO JENNINGS - THIRD FLOOR
1/4" = 1'-0"



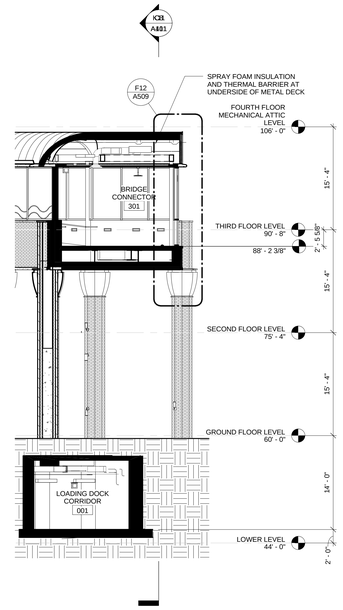
K13 ENLARGED PLAN OF TUNNEL CONNECTION TO JENNINGS - LOWER LEVEL
1/4" = 1'-0"



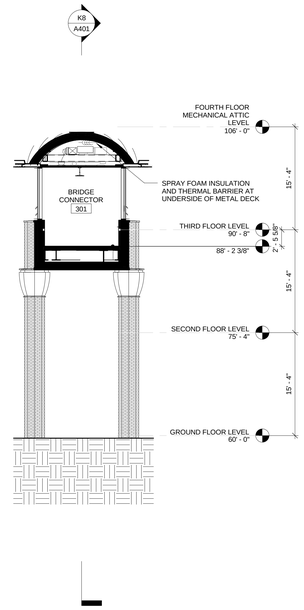
K1 NORTH SOUTH SECTION THROUGH BRIDGE, TUNNEL, AND JENNINGS
1/8" = 1'-0"



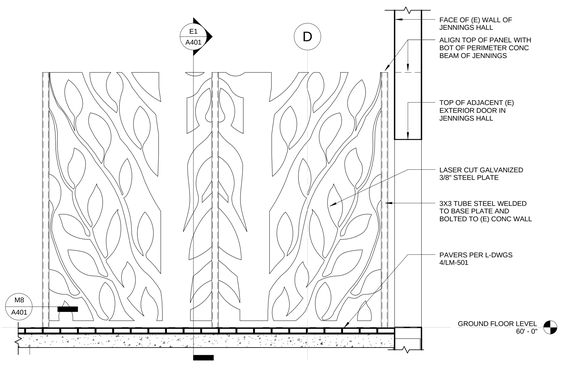
K5 NORTH SOUTH SECTION THROUGH BRIDGE AND TUNNEL
1/8" = 1'-0"



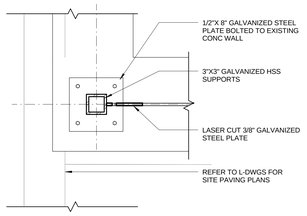
K8 SOUTH-EAST SECTION AT BRIDGE
1/8" = 1'-0"



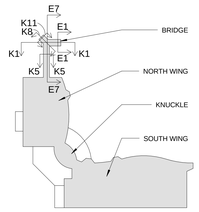
K11 NORTH EAST SECTION AT BRIDGE
1/8" = 1'-0"



M1 LASER CUT METAL SCREEN AT JENNINGS HALL
1/2" = 1'-0"



M8 METAL SCREEN BASE DETAIL
1 1/2" = 1'-0"



drawing title: BUILDING SECTIONS – BRIDGE & TUNNEL	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES
REVISIONS: mark / date / description — 11-21-2012 Bid Documents	DRAWING: Centerbrook Architects and Planners, LLP, 67 Main Street, Post Office Box 955, Centerbrook, Connecticut 06409-0955
project: SCSU NEW ACADEMIC LABORATORY BUILDING	
CAD: 1393 / project no.: BI-RS-283	volume: 1 of 2 / date: 11-21-2012 / scale: As indicated / drawn by: LT/AS / approved by: RM/JBR / drawing no.: A401

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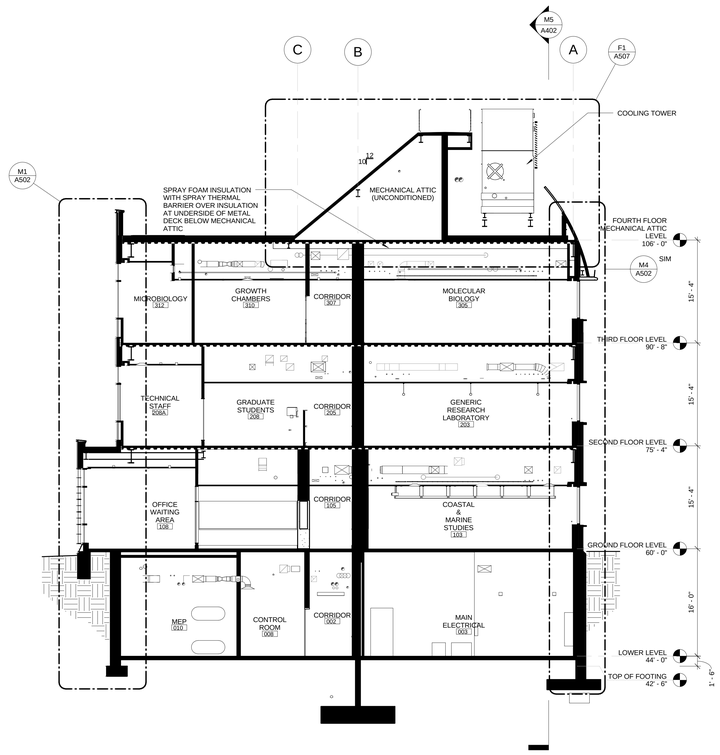
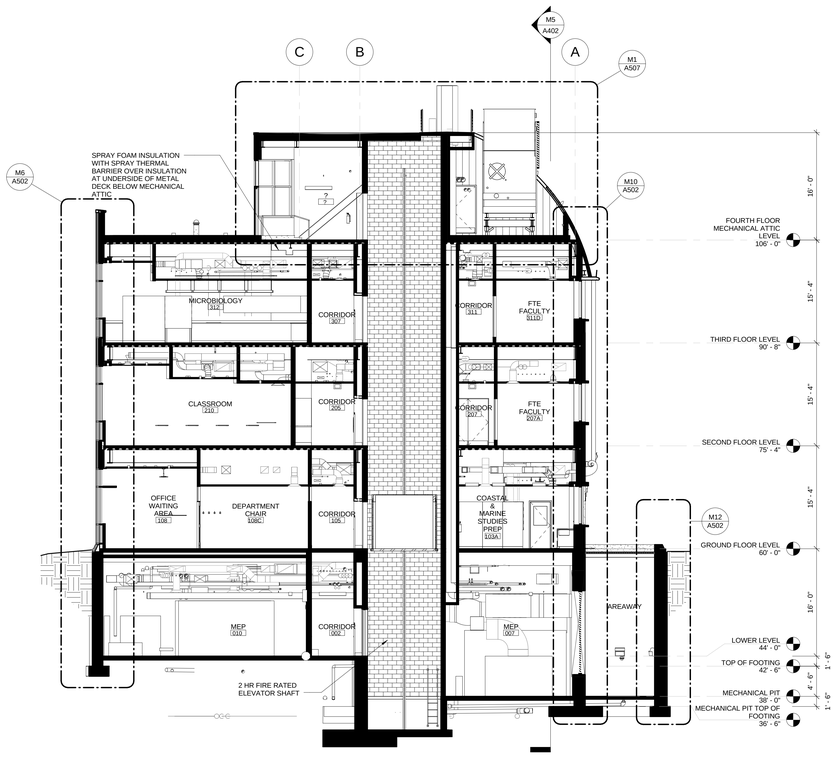
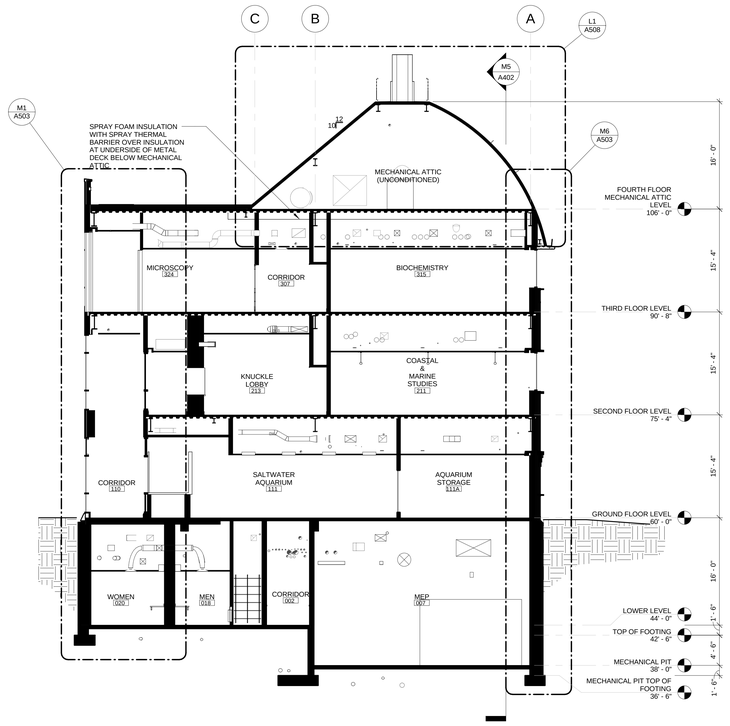


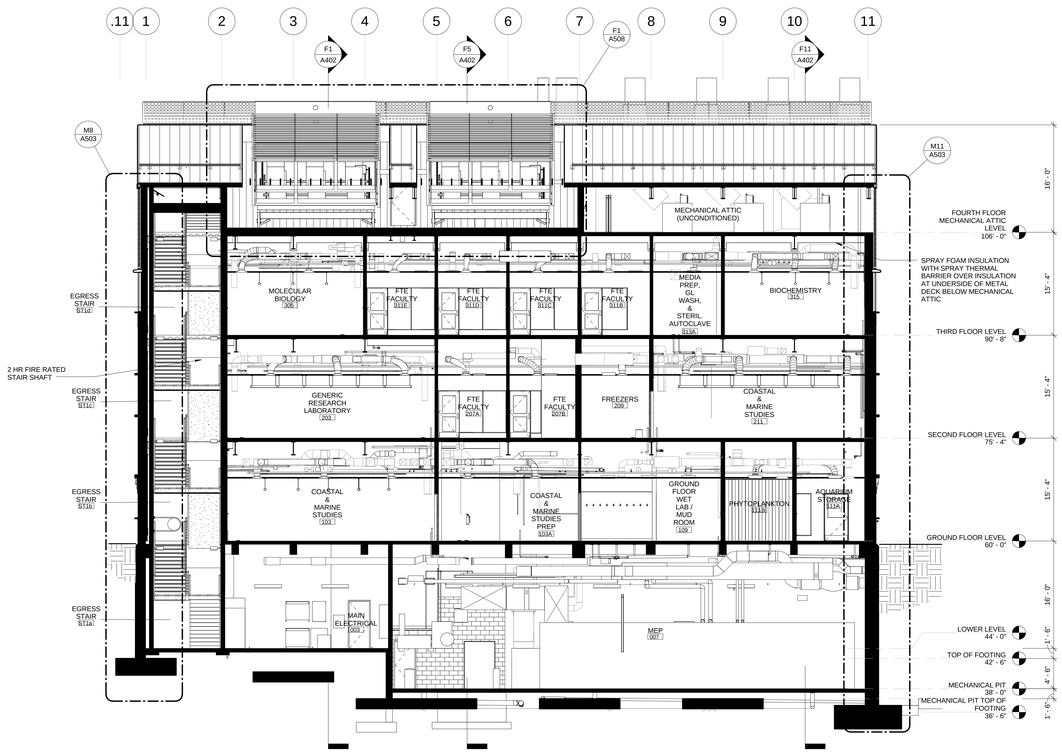
F1 NORTH SOUTH SECTION THROUGH NORTH WING AT BAY
1/8" = 1'-0"



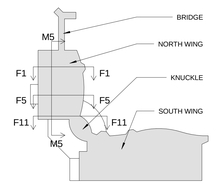
F5 NORTH SOUTH SECTION THROUGH NORTH WING AT CLASSROOM AND AREAWAY
1/8" = 1'-0"



F11 NORTH SOUTH SECTION THROUGH NORTH WING AT TWO STORY SPACE
1/8" = 1'-0"



M5 EAST WEST SECTION THROUGH NORTH WING
1/8" = 1'-0"



drawing title
BUILDING SECTIONS – NORTH WING

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

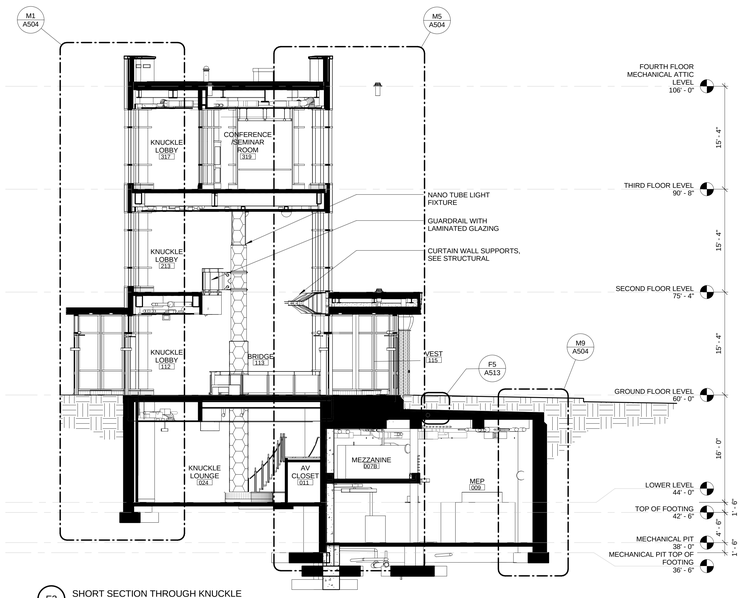
DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

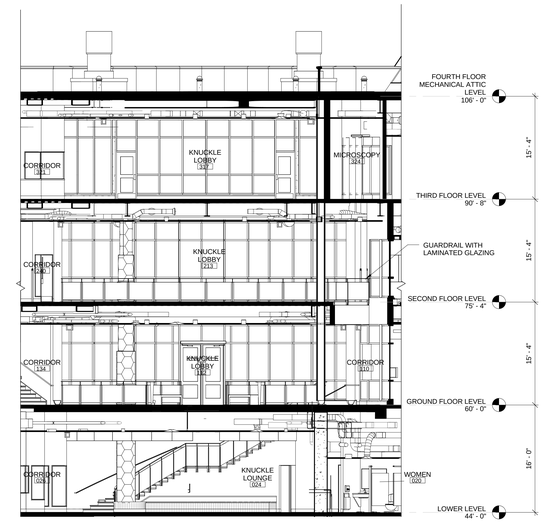
CAD no. 1393
project no. BI-RS-283

sheet no. 1 of 2
date 11-21-2012
scale As indicated
drawn by LT/AS
checked by RMJ/BR
drawing no. A402

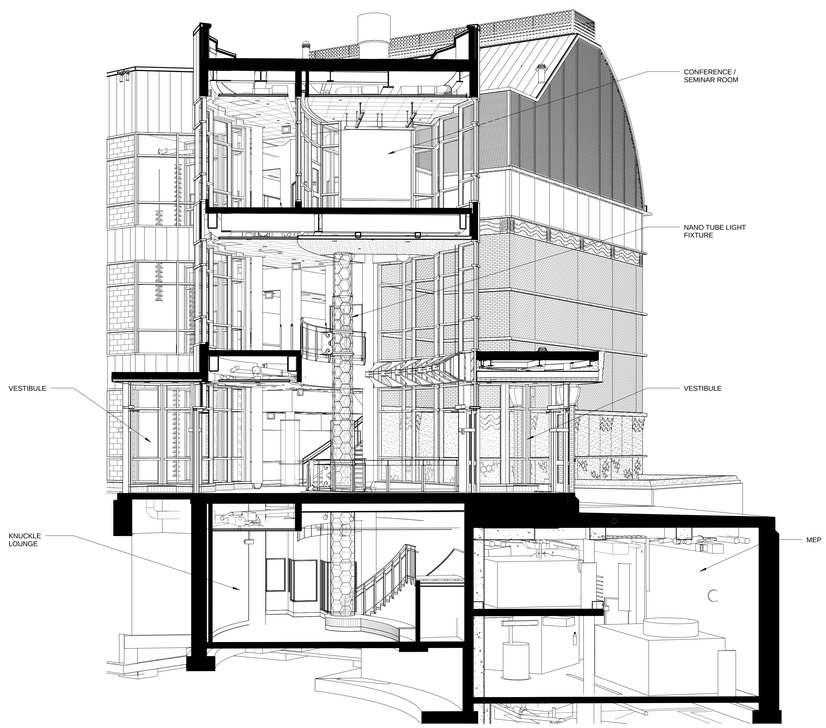
Collins Local Field PR 5252 / New Academic and Laboratory Building A-17 Centerbrook_Graphics1 1/21/2012 11:56:57 AM



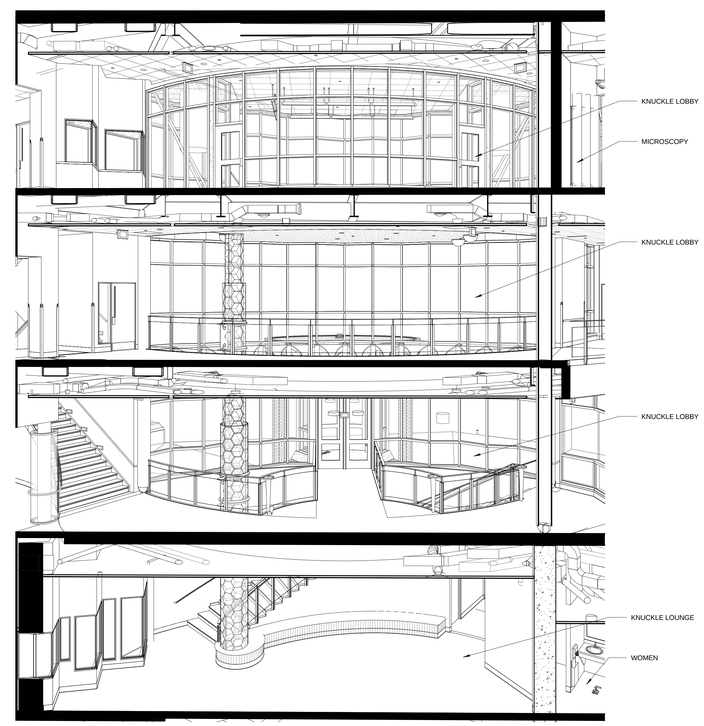
E3 SHORT SECTION THROUGH KNUCKLE
1/8" = 1'-0"



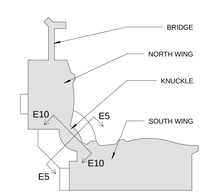
E8 LONG SECTION THROUGH KNUCKLE
1/8" = 1'-0"



L3 SHORT SECTION THROUGH KNUCKLE PERSPECTIVE



L8 LONG SECTION THROUGH KNUCKLE PERSPECTIVE



drawing title
BUILDING SECTIONS – KNUCKLE

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

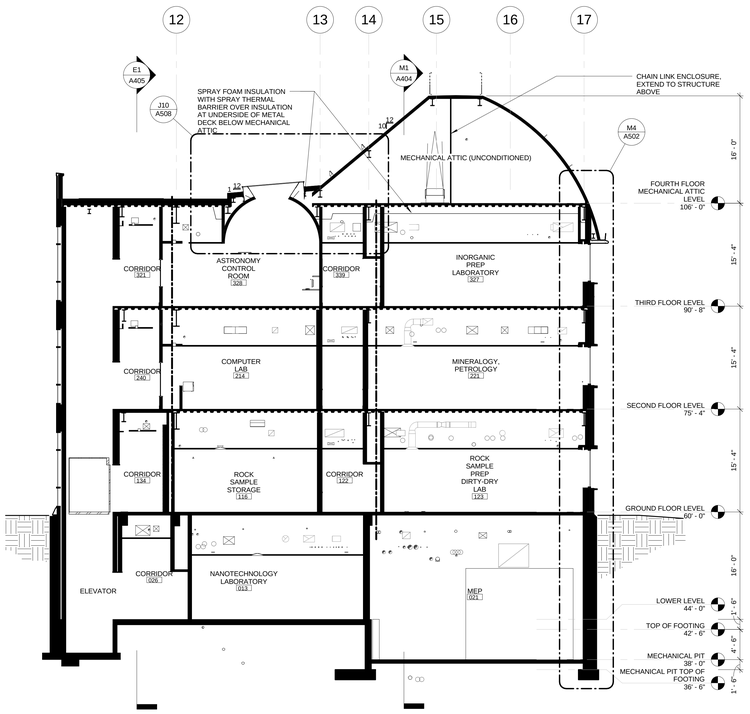
DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

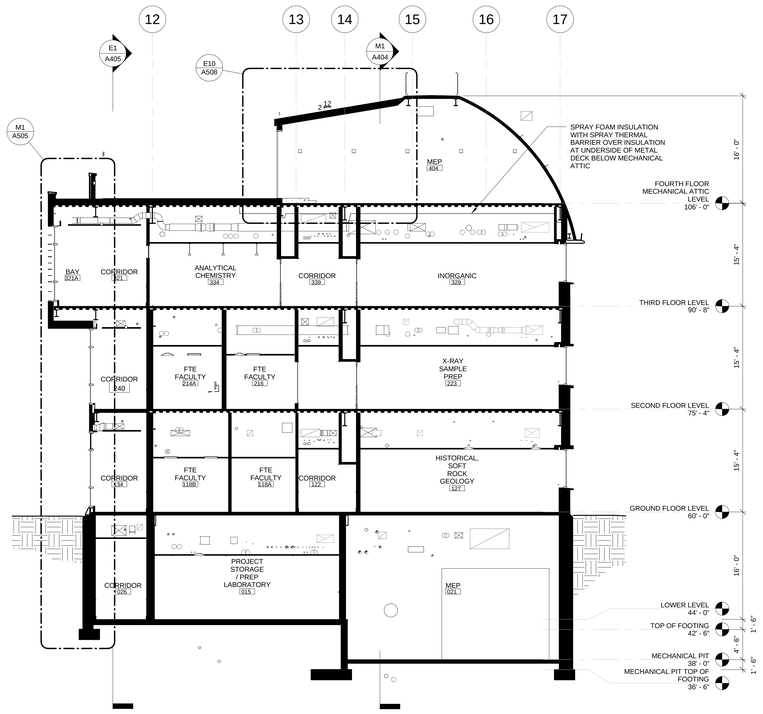
CAD no. 1393
project no. BI-RS-283

sheet no. 1 of 2
date 11-21-2012
scale As indicated
drawn by LT/AS
checked by RMJBR
drawing no. A403

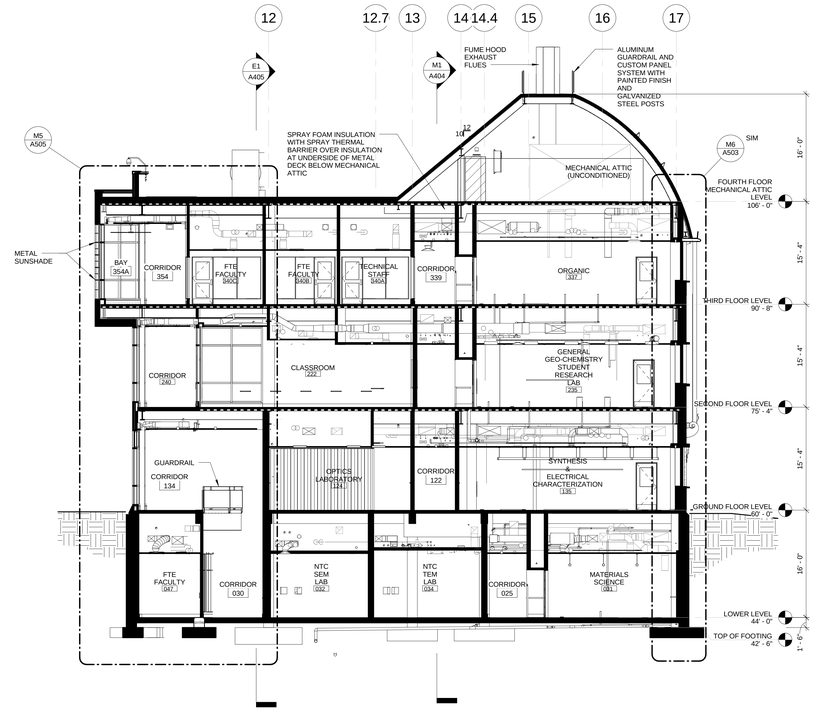
Colleges Local Field | P9 | SCSU New Academic and Laboratory Building & F1 Canopy_Graphics1 1/1/1900 2:11:22:21 AM



F1 EAST WEST SECTION THROUGH SOUTH WING AT ELEVATOR
1/8" = 1'-0"



F6 EAST WEST SECTION THROUGH SOUTH WING AT DORMER
1/8" = 1'-0"



F11 EAST WEST SECTION THROUGH SOUTH WING AT ATRIUM
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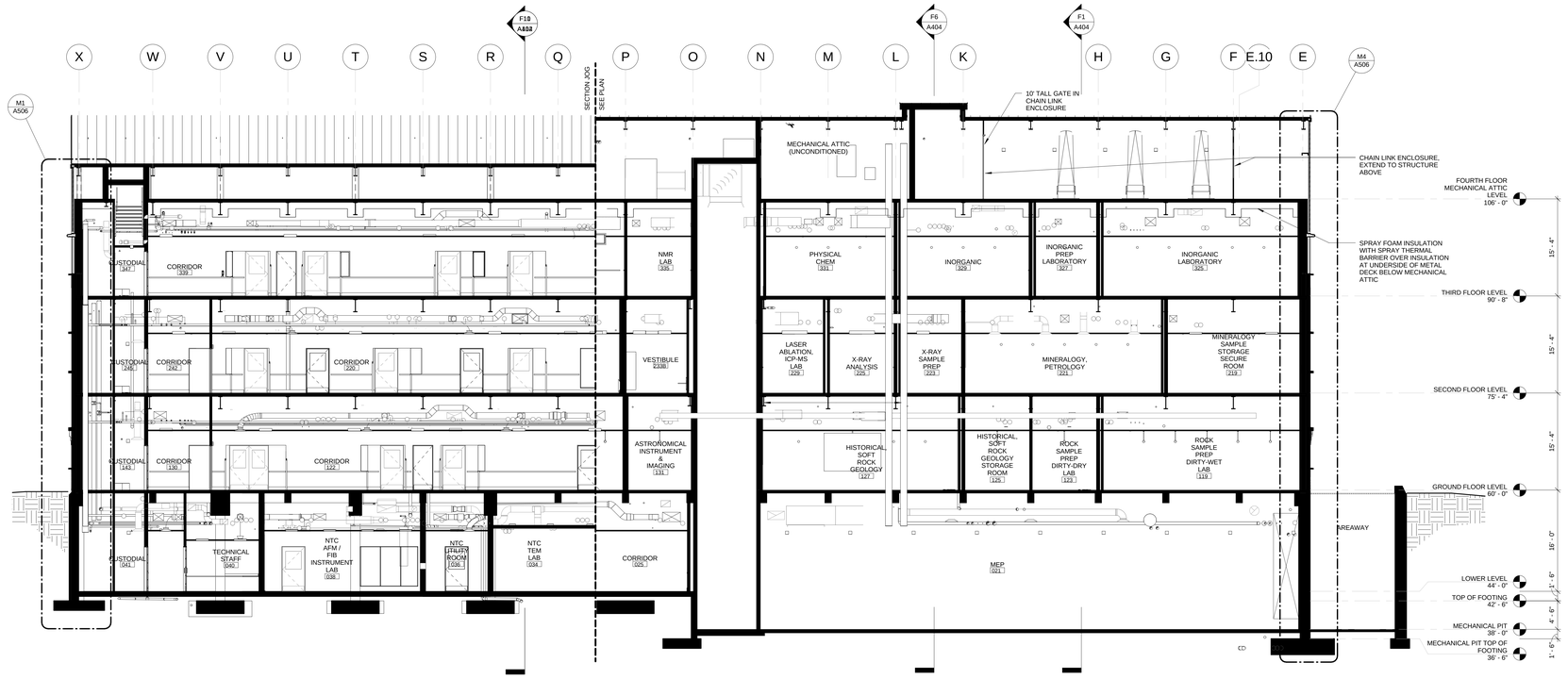

M1 NORTH SOUTH SECTION THROUGH SOUTH WING LABS
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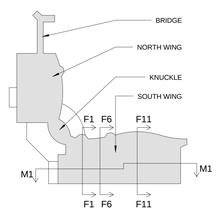

drawing title
BUILDING SECTIONS – SOUTH WING

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

sheet no. 1 of 2
date 11-21-2012
scale As indicated
drawn by LT/AS
checked by RMJ/BR
drawing no. A404

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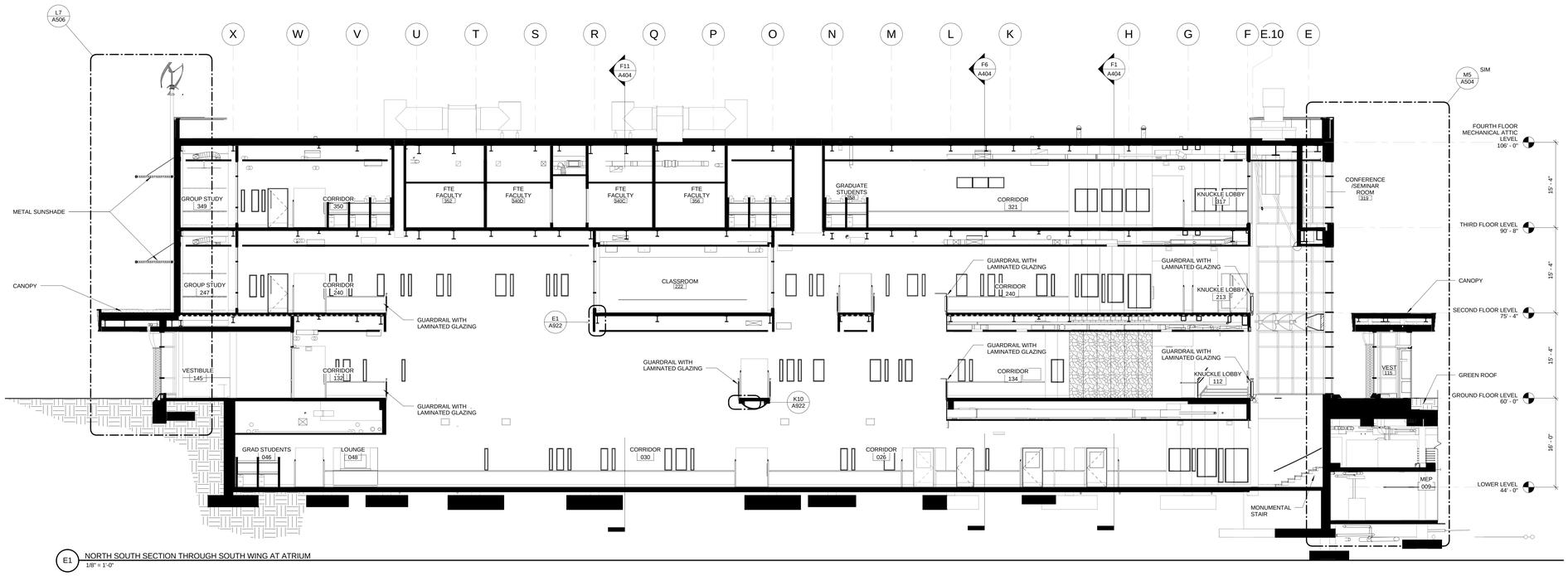
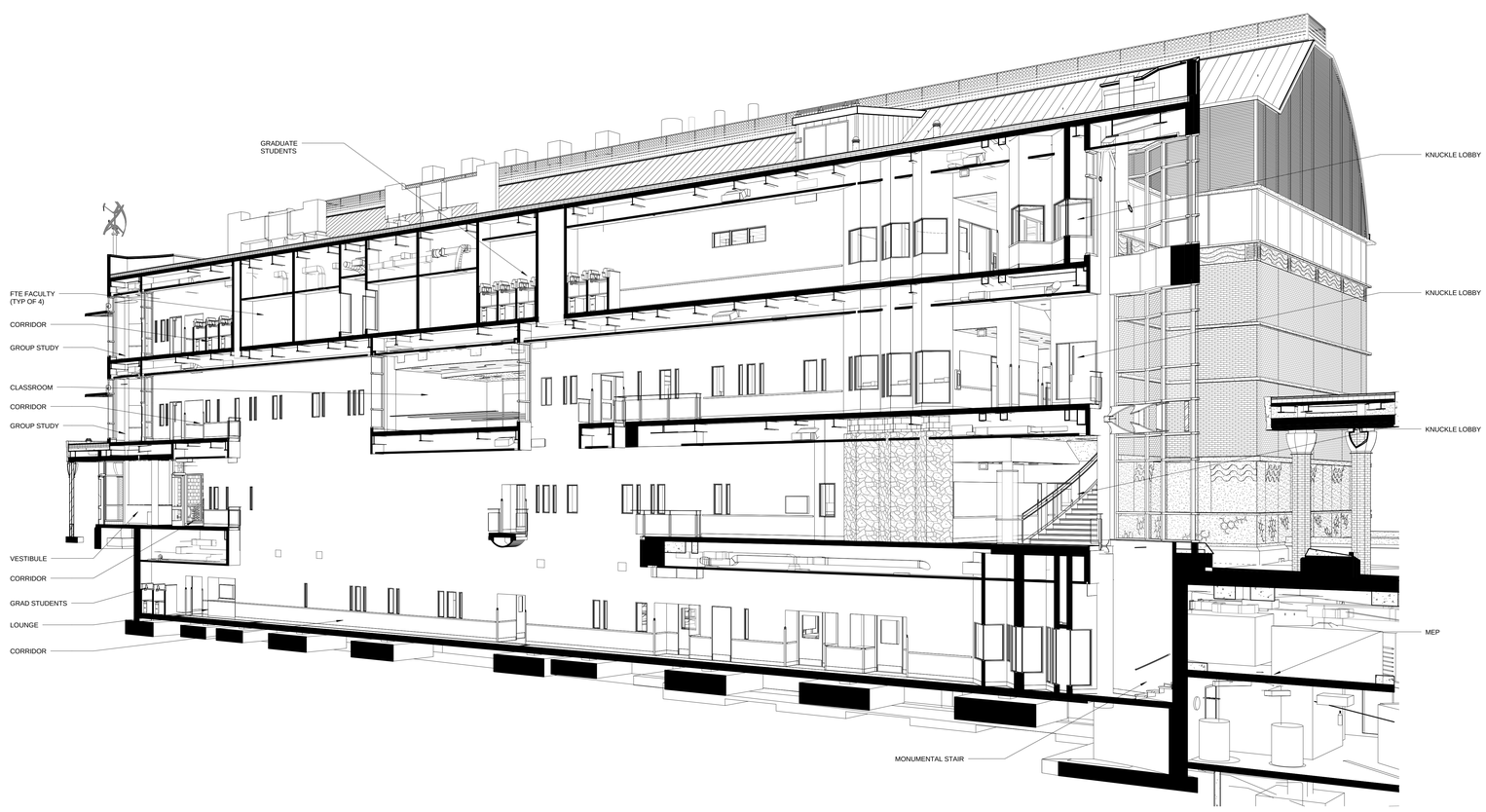
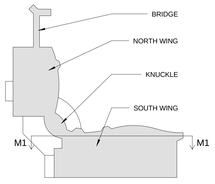


E1 NORTH SOUTH SECTION THROUGH SOUTH WING AT ATRIUM
1/8" = 1'-0"



L1 NORTH SOUTH SECTION THROUGH SOUTH WING AT ATRIUM



drawing title
BUILDING SECTIONS – SOUTH WING

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

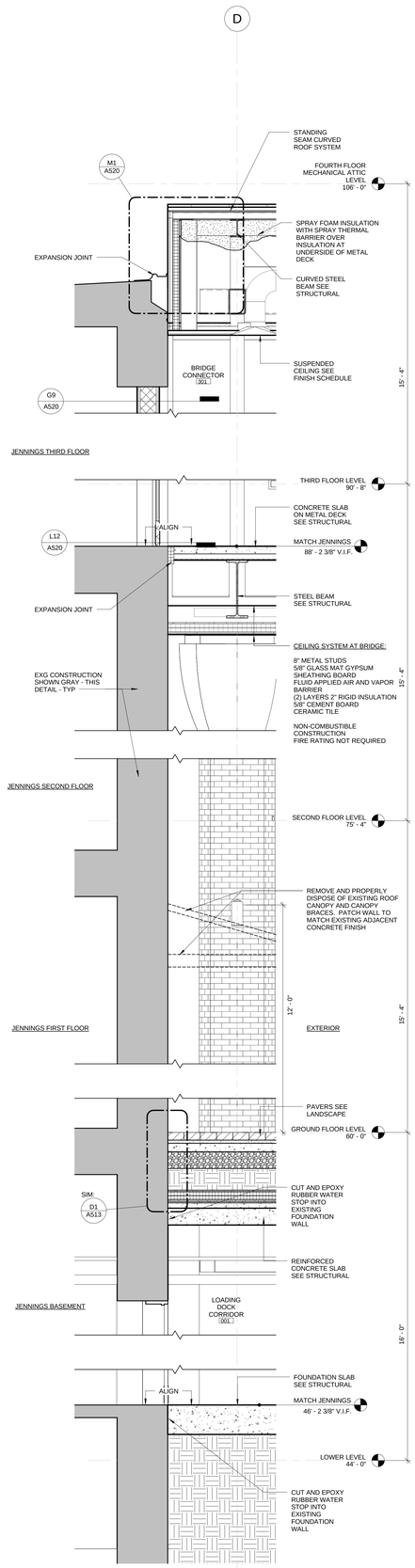
DRAWING
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

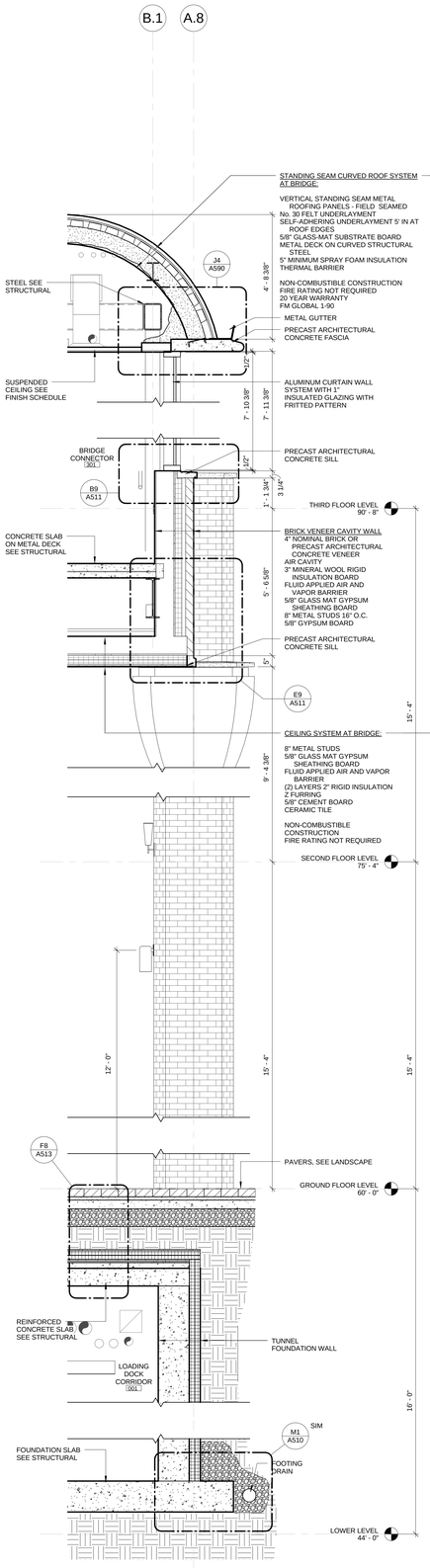
CAD file: 1393
project no. BI-RS-283

volume 1 of 2
date 11-21-2012
scale As indicated
drawn by LT/AS
reviewed by RM/JBR
drawing no. A405

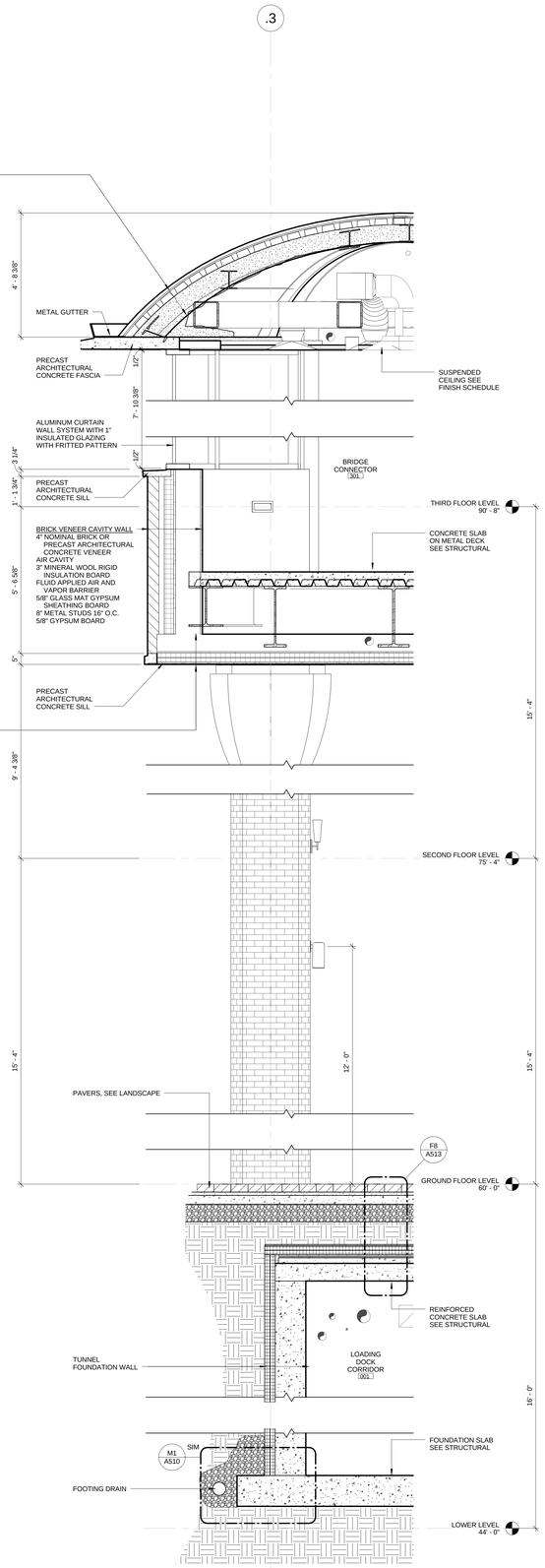
Clifford Lind Hall (79) SCSU New Academic and Laboratory Building A-1 Comb_Graphics 11/21/2012 11:58:51 AM



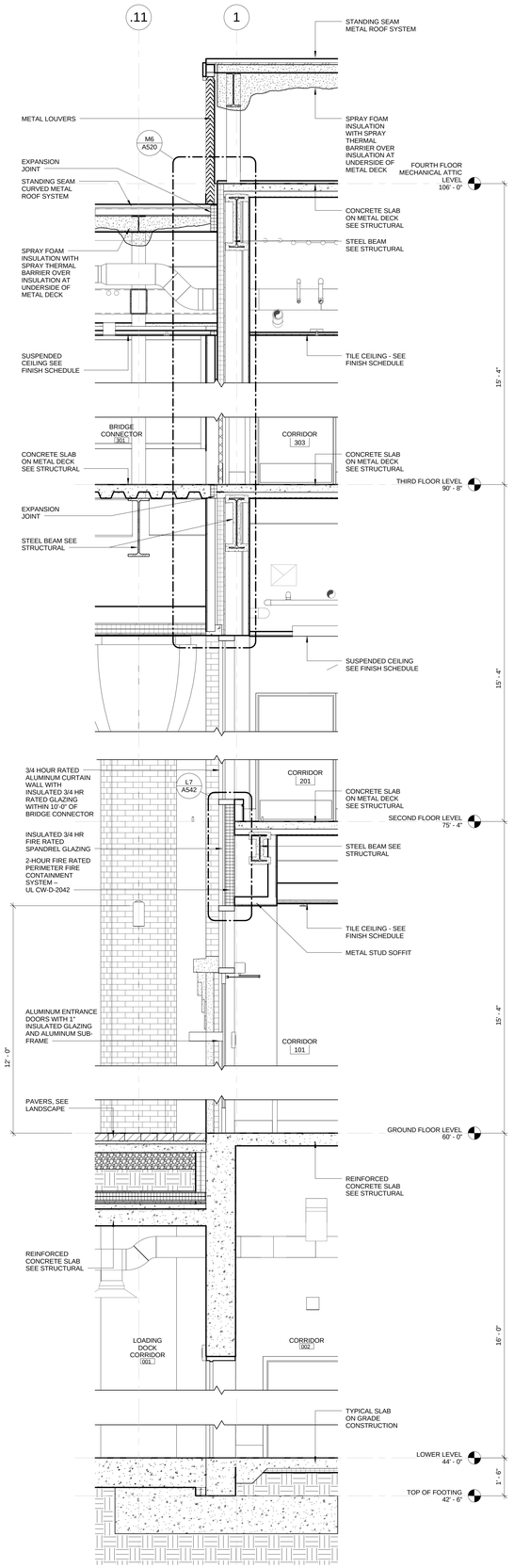
M1 WALL SECTION AT CONNECTION TO JENNINGS
1/2" = 1'-0"



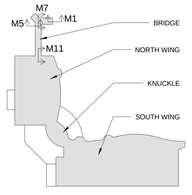
M5 WALL SECTION AT BRIDGE AND TUNNEL LOOKING WEST
1/2" = 1'-0"



M7 WALL SECTION AT BRIDGE AND TUNNEL LOOKING SOUTH
1/2" = 1'-0"



M11 WALL SECTION AT BRIDGE & NORTH WING CONNECTION
1/2" = 1'-0"



drawing title
WALL SECTIONS – BRIDGE & TUNNEL

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

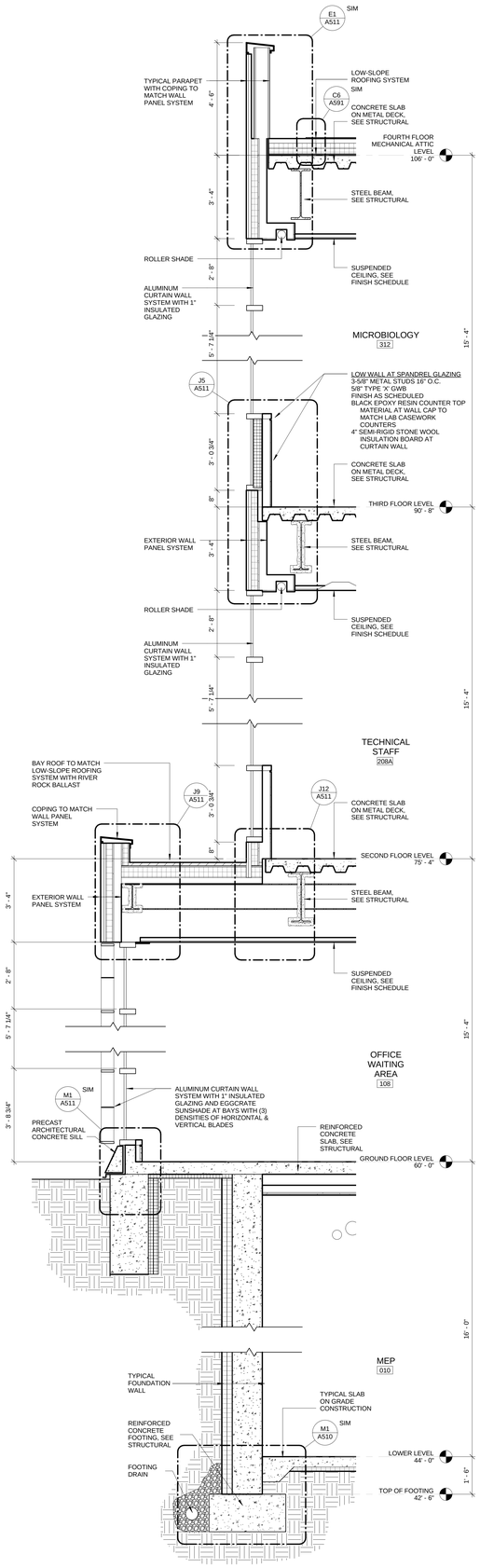
DRAWING
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

PROJECT
SCSU NEW ACADEMIC LABORATORY BUILDING

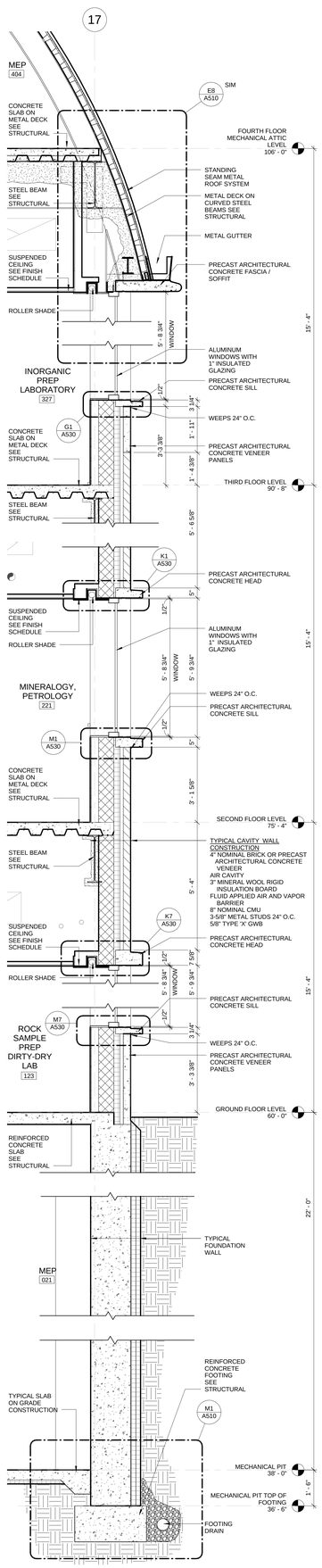
CAD no. 1393
project no. BI-RS-283

volume 1 of 2
date 11-21-2012
scale As indicated
drawn by LT/AS
reviewed by RM/JBR
drawing no. A501

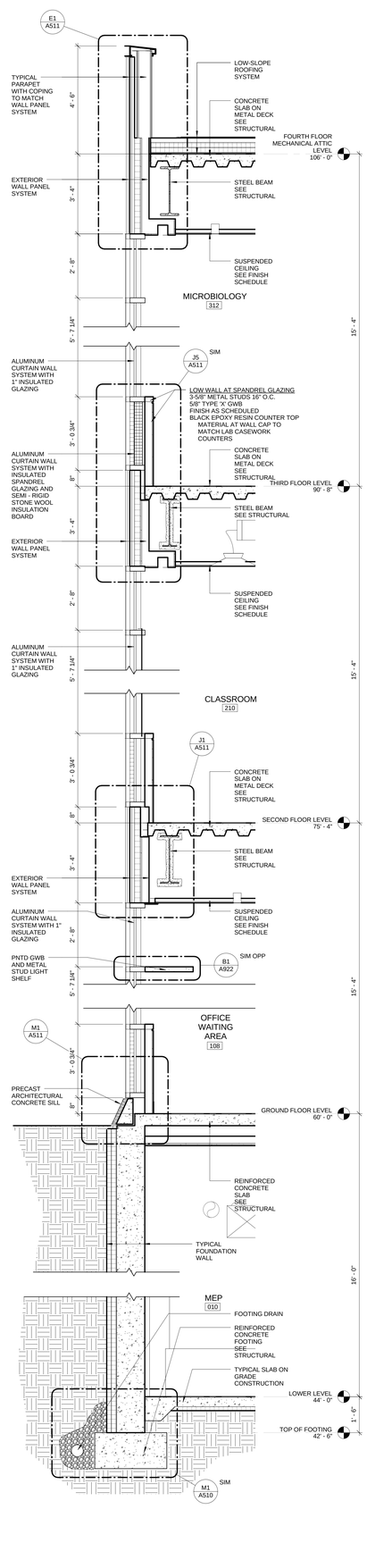
Clifford Lind Flatt (R) SCSU New Academic and Laboratory Building Art Center_Graphics 11/21/2012 11:05:07 AM



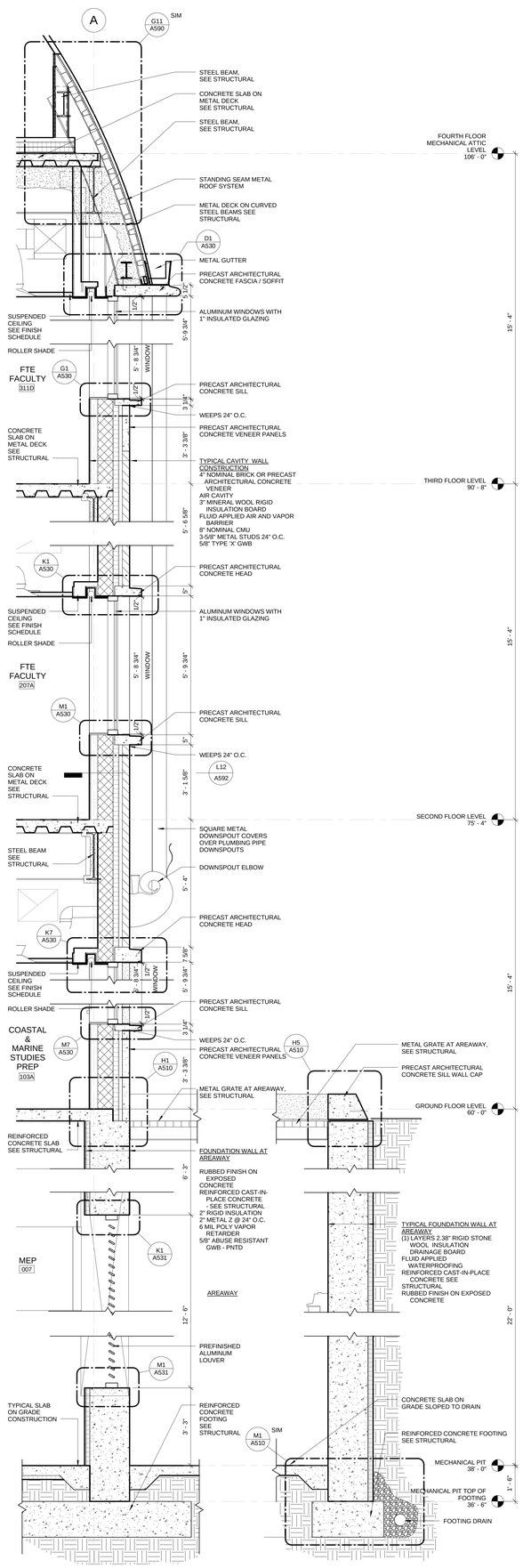
M1 WALL SECTION AT NORTH WING AT BAY
1/2" = 1'-0"



M4 TYPICAL SECTION AT VENEER WALL WITH WINDOWS
1/2" = 1'-0"

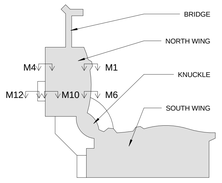


M6 WALL SECTION AT NORTH WING AT CLASSROOMS
1/2" = 1'-0"



M10 WALL SECTION AT NORTH WING AREAWAY
1/2" = 1'-0"

M12 WALL SECTION AT AREAWAY
1/2" = 1'-0"



drawing title: WALL SECTIONS – NORTH WING

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

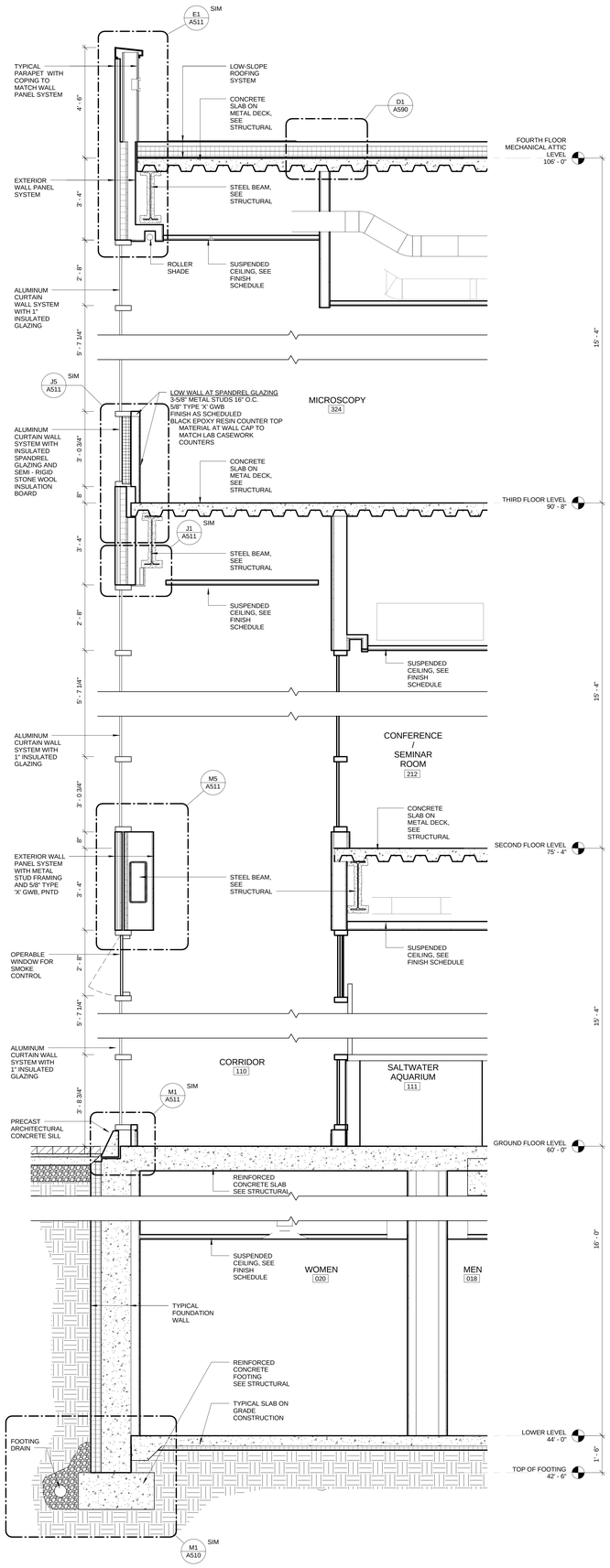
DRAWING: Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

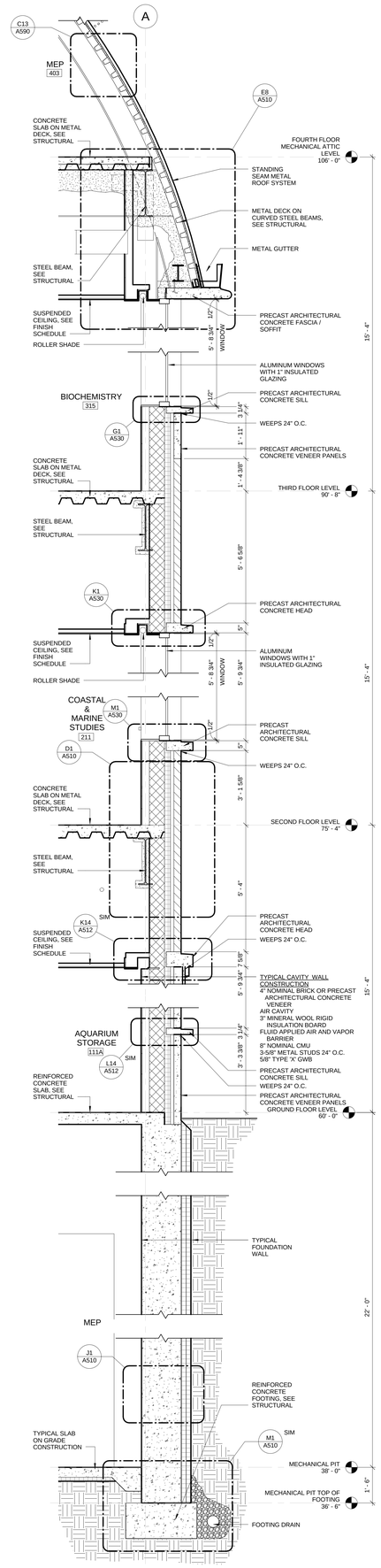
CAD: 1393
project no.: BI-RS-283

volume: 1 of 2
date: 11-21-2012
scale: As indicated
drawn by: LTIAS
reviewed by: RMJBR
drawing no.: A502

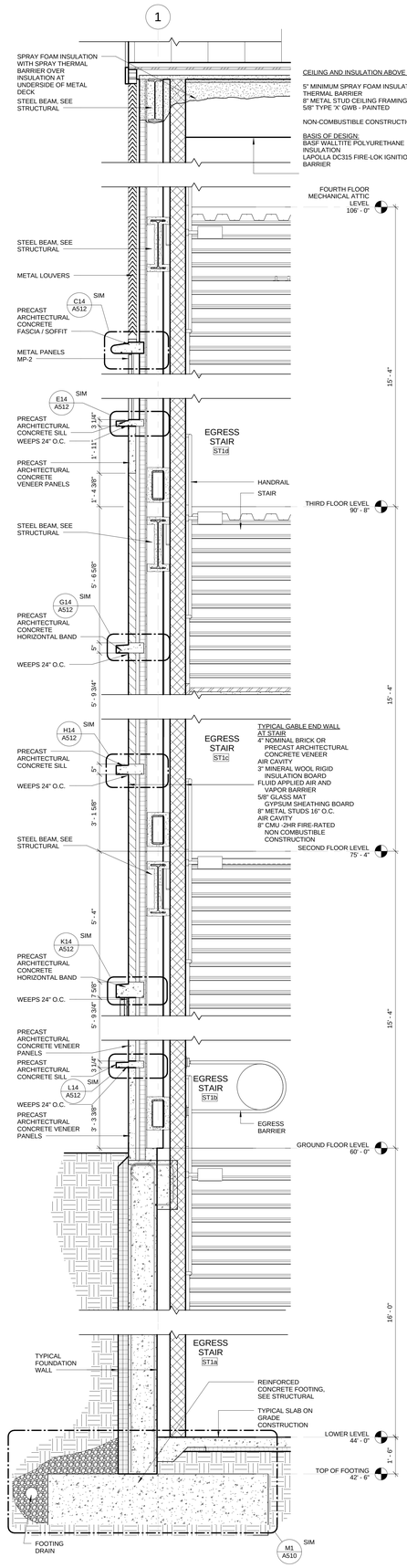
Clifford Leaf Rast (781) 925-2 New Academic and Laboratory Building A12 Canvas_Graphics 11/21/2012 11:55:12 AM



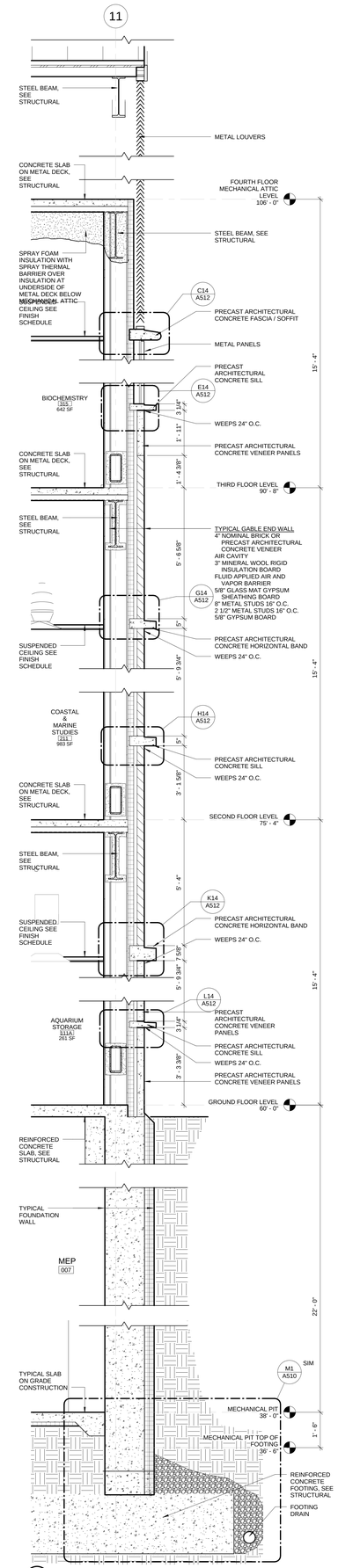
M1 WALL SECTION AT NORTH WING AT DOUBLE HEIGHT SPACE
1/2" = 1'-0"



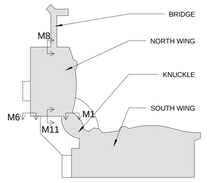
M6 TYPICAL SECTION AT VENEER WALL WITH CMU BACKUP
1/2" = 1'-0"



M8 WALL SECTION AT EAST END OF NORTH WING @ STAIR
1/2" = 1'-0"



M11 WALL SECTION AT WEST END OF NORTH WING
1/2" = 1'-0"



drawing title: WALL SECTIONS – NORTH WING

REVISIONS

mark	date	description
1	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

drawing: Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD file: 1393
project no.: BI-RS-283

volume: 1 of 2
date: 11-21-2012
scale: As indicated
drawn by: LT/AS
checked by: RM/JBR
sheet: A503

Clifford Lucal Filed 7/01/2021 New Academic and Laboratory Building 4-0 Comp_Graphics
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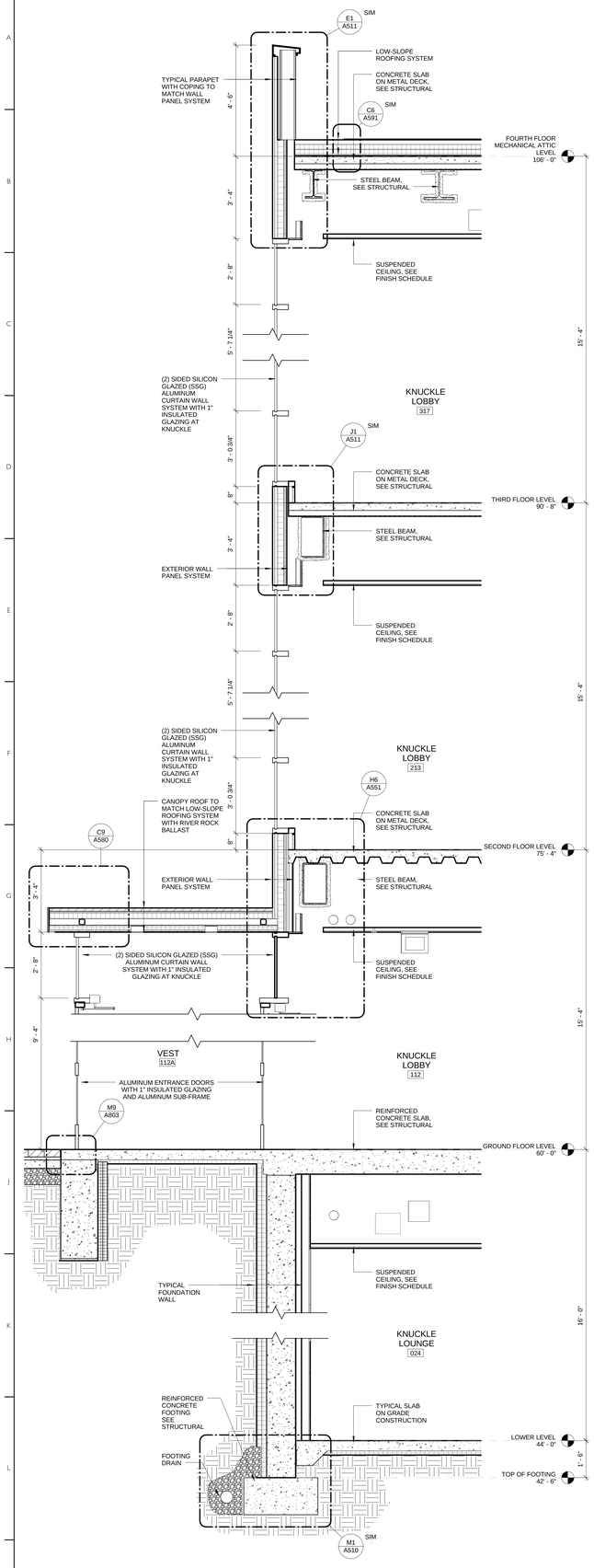
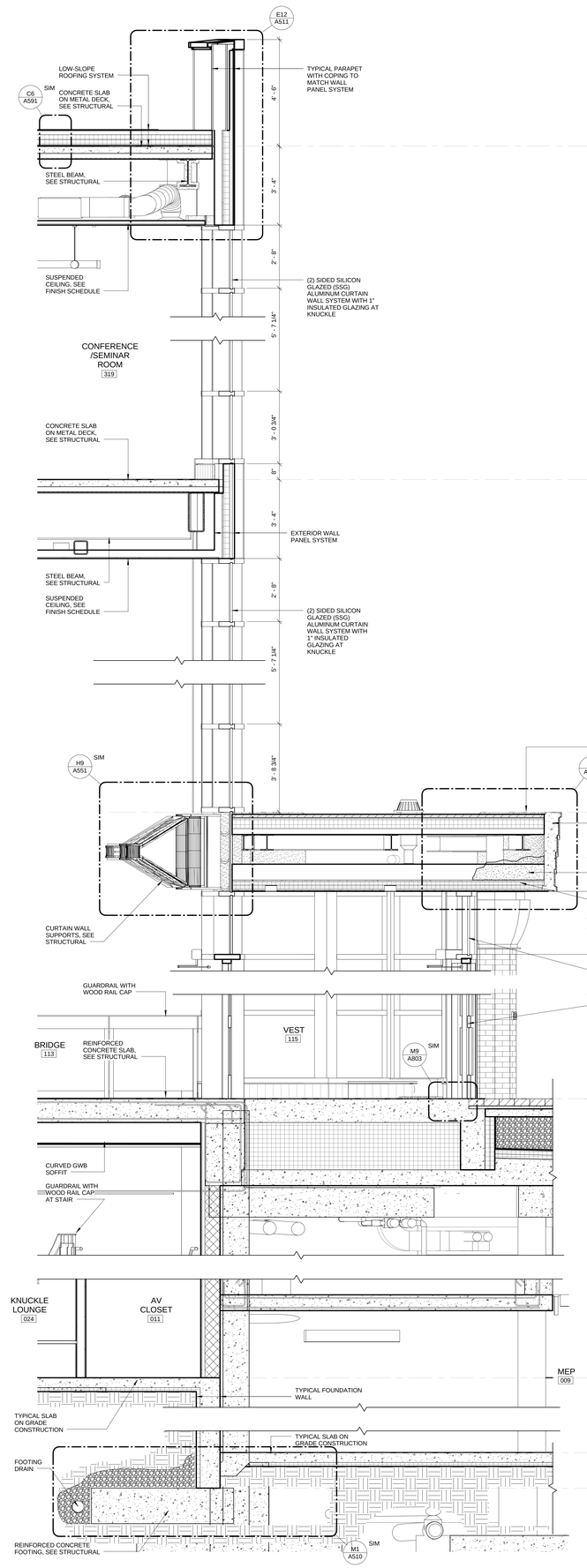
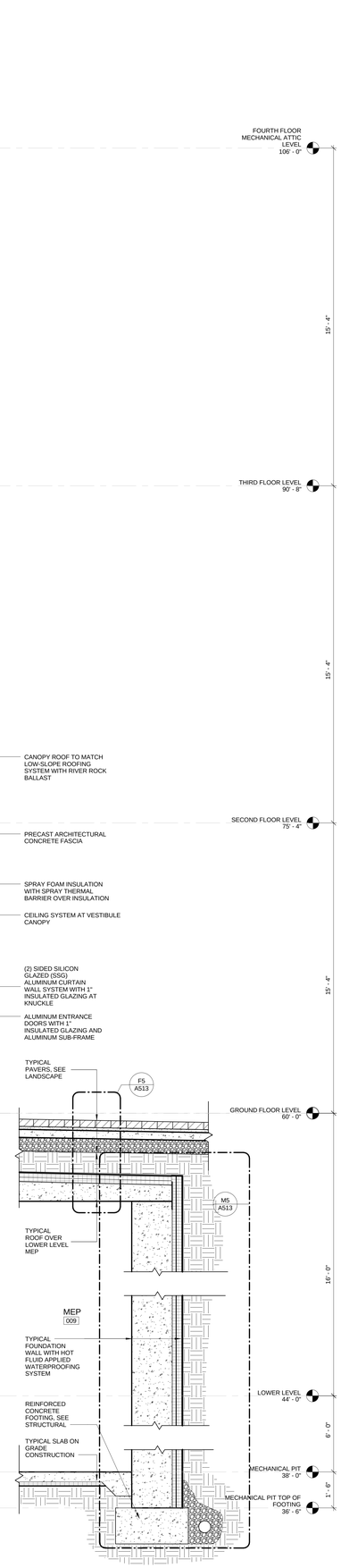


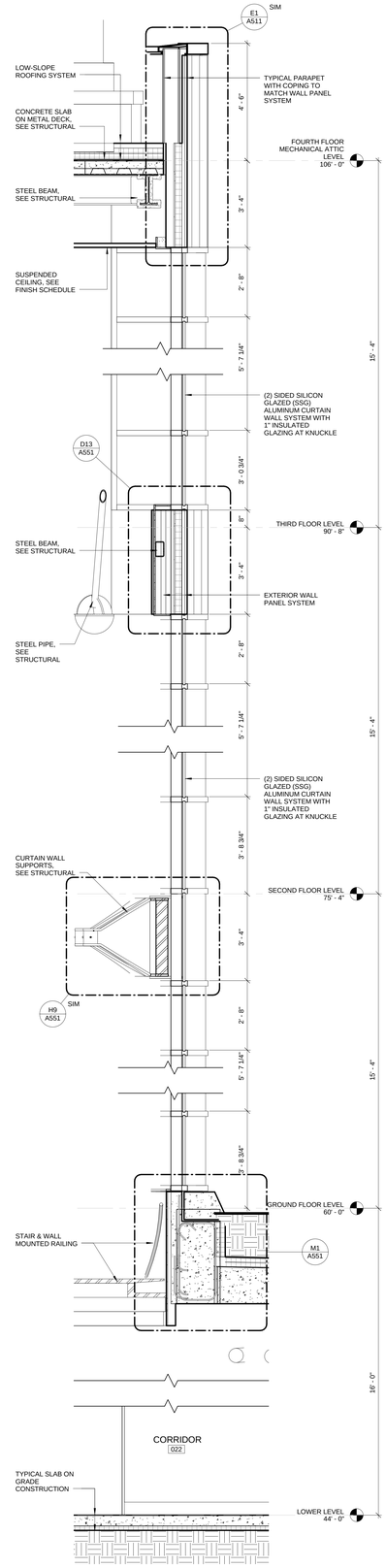
M1 WALL SECTION AT QUAD SIDE OF KNUCKLE
1/2" = 1'-0"



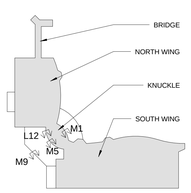
M5 WALL SECTION AT MAIN ENTRANCE OF KNUCKLE
1/2" = 1'-0"



M9 WALL SECTION AT MECHANICAL BASEMENT
1/2" = 1'-0"



L12 WALL SECTION AT NORTH KNUCKLE CURTAINWALL
1/2" = 1'-0"



drawing title
WALL SECTIONS – KNUCKLE

REVISIONS

mark	date	description
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STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
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67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

sheet no. 1 of 2
date 11-21-2012
scale As indicated
drawn by LT/AS
checked by RMJ/BR
drawing no. A504

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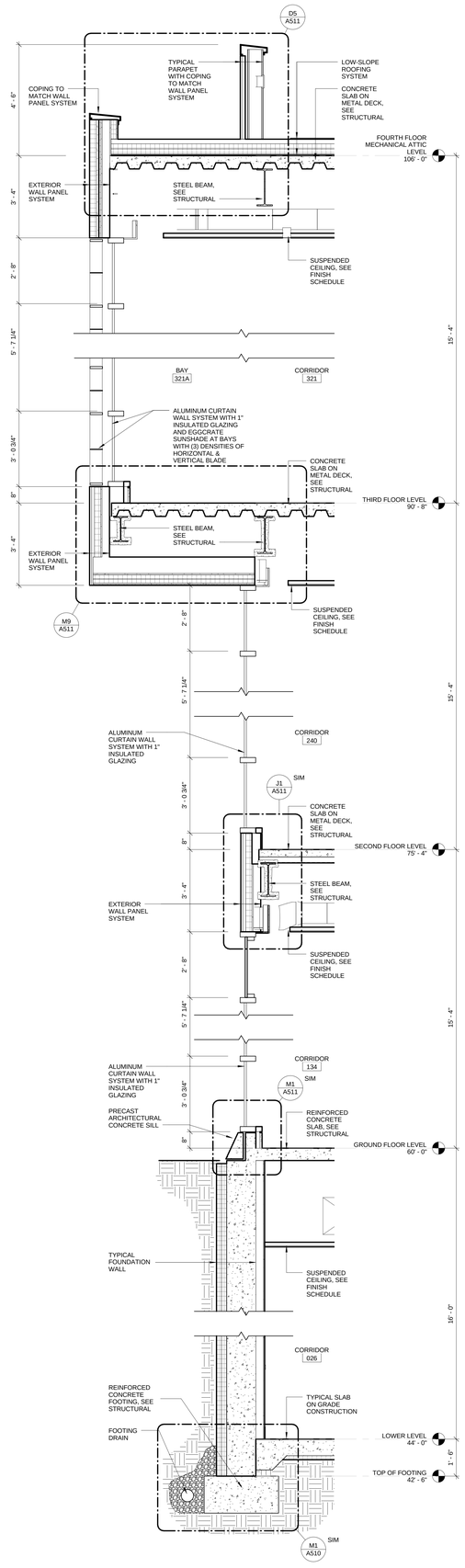
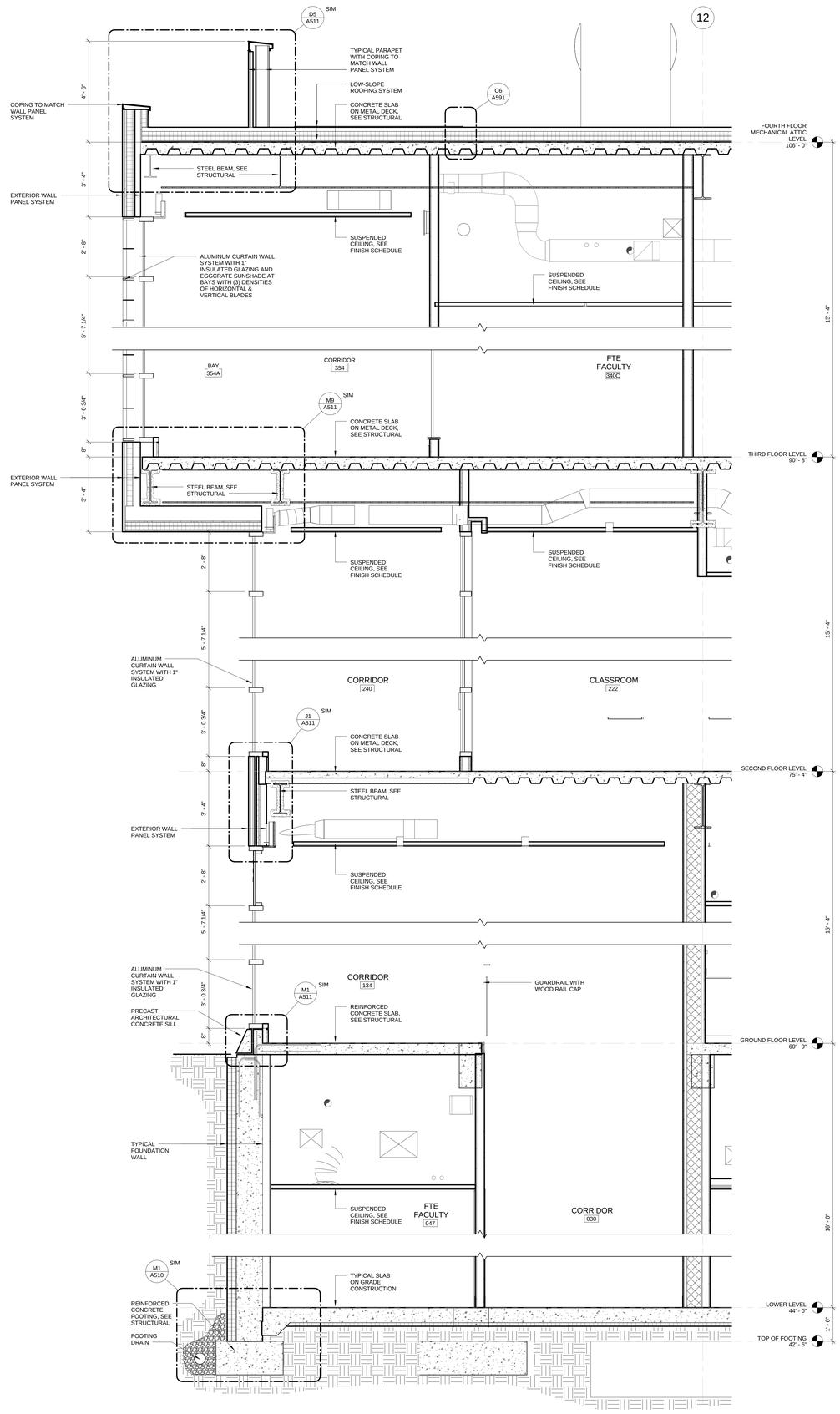
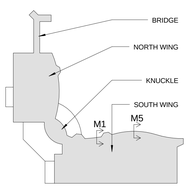


M1 WALL SECTION AT SOUTH WING CORRIDOR
1/2" = 1'-0"



M5 WALL SECTION AT SOUTH WING AT ATRIUM AND BAY
1/2" = 1'-0"



drawing title
WALL SECTIONS – SOUTH WING

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING
Centerbrook Architects and Planners, LLP
67 Main Street
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Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD file: 1393
project no.: BI-RS-283

volume 1 of 2
date 11-21-2012
scale As indicated
drawn by LTIAS
approved by RMUBR
drawing no. A505

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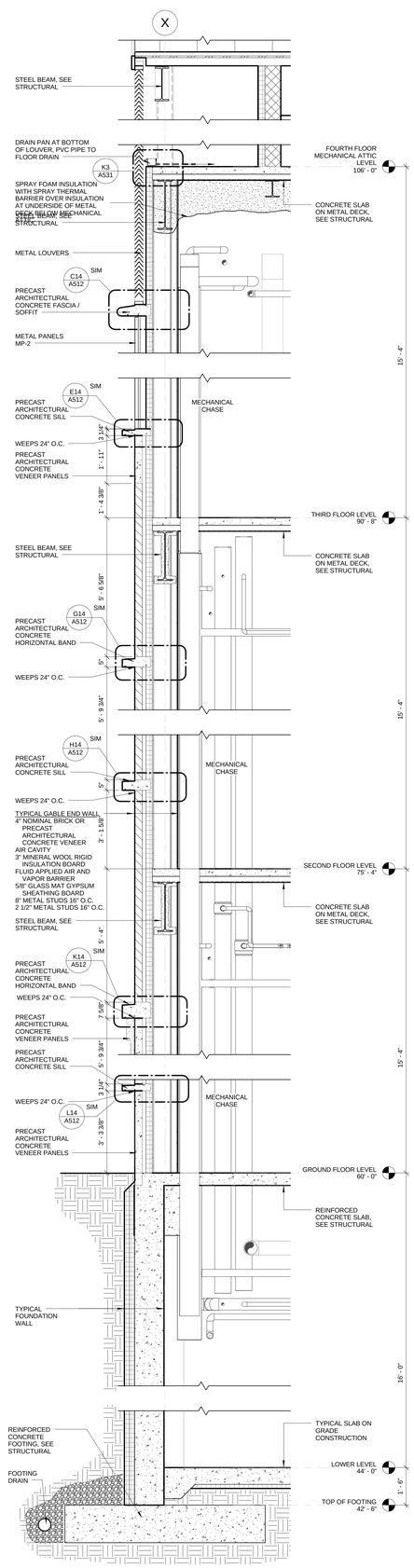
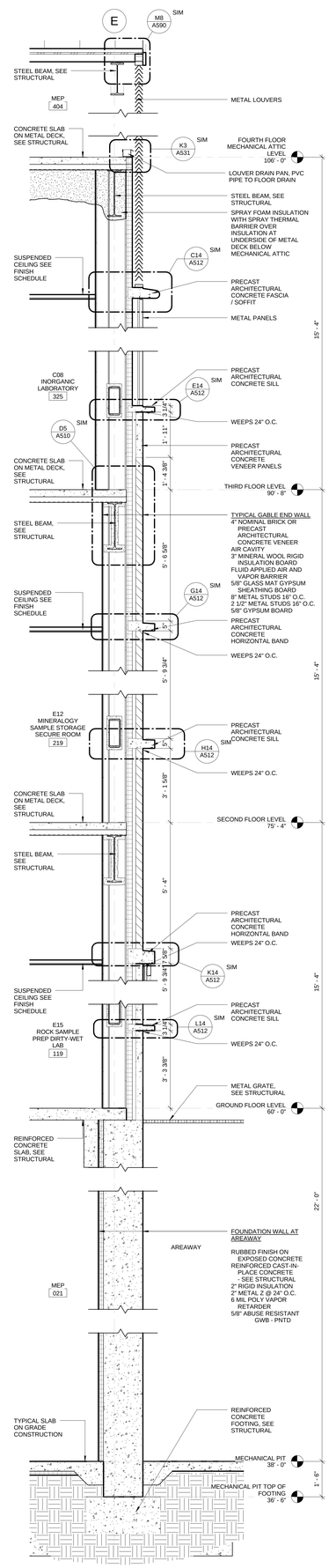
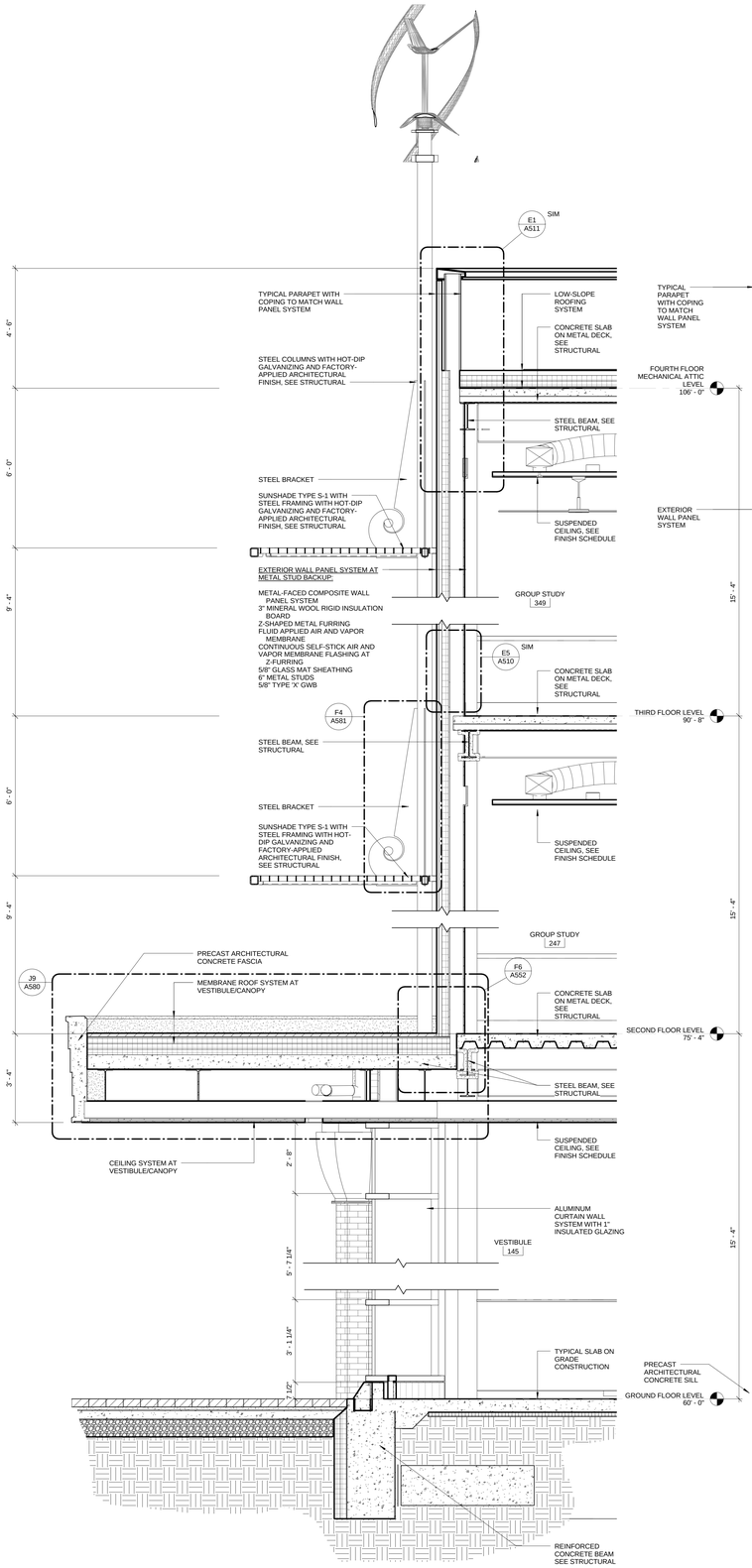


M1 WALL SECTION AT SOUTH END OF SOUTH WING
1/2" = 1'-0"



M4 WALL SECTION AT NORTH END OF SOUTH WING
1/2" = 1'-0"



L7 WALL SECTION AT GROUP STUDY AND VEST OF SOUTH WING
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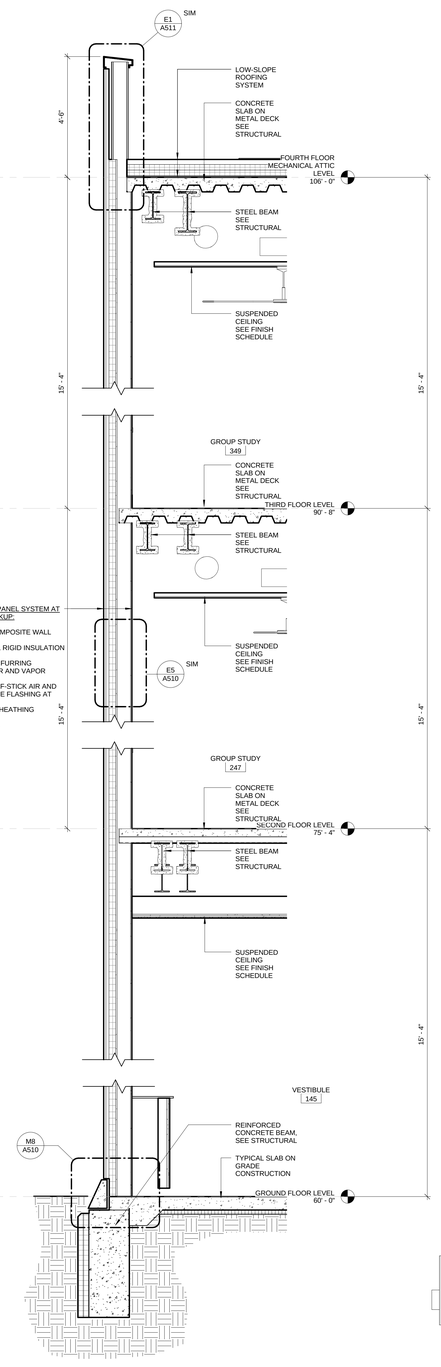
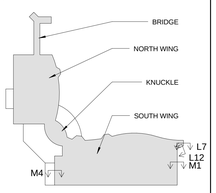


L12 WALL SECTION AT GROUP STUDY AND VEST OF SOUTH WING - METAL WALL
1/2" = 1'-0"



drawing title
WALL SECTIONS – SOUTH WING

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
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67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

sheet no. 1 of 2
date 11-21-2012
scale As indicated
drawn by LT/AS
RMJ/BR
drawing no. A506

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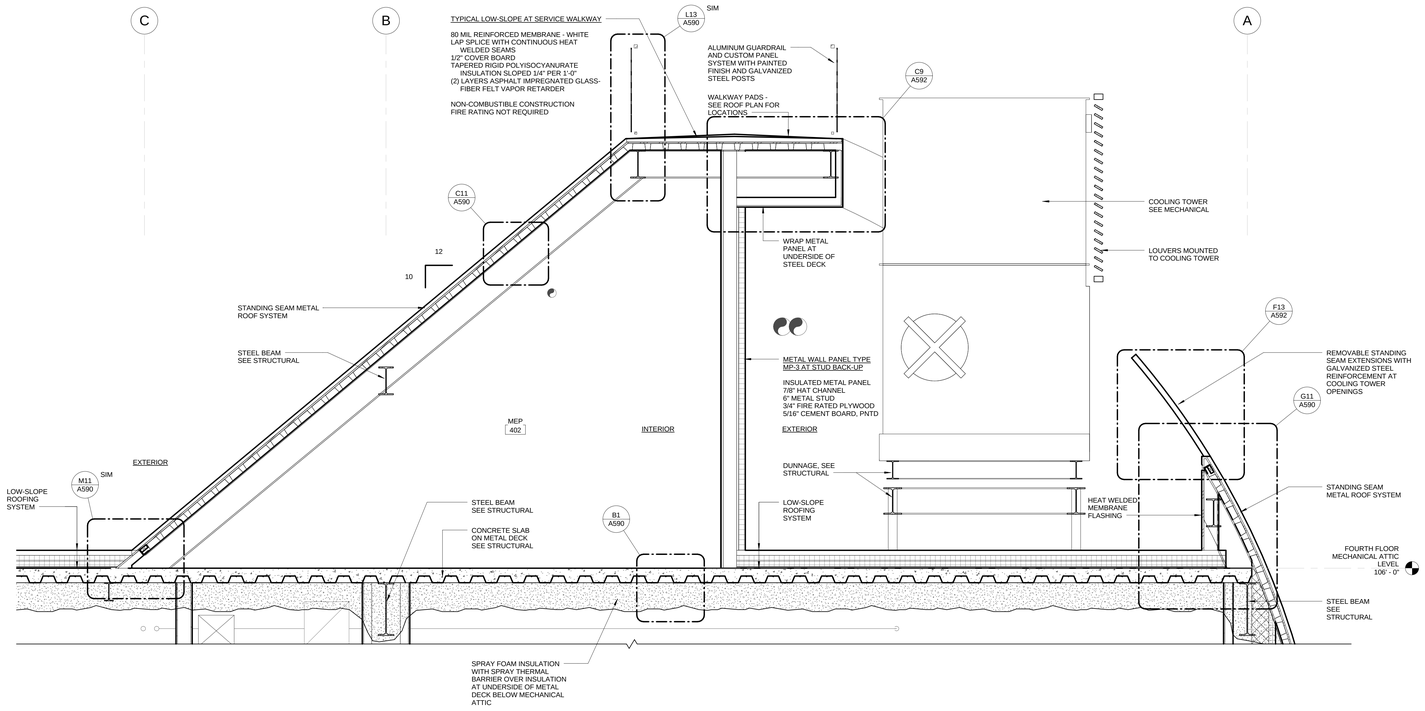
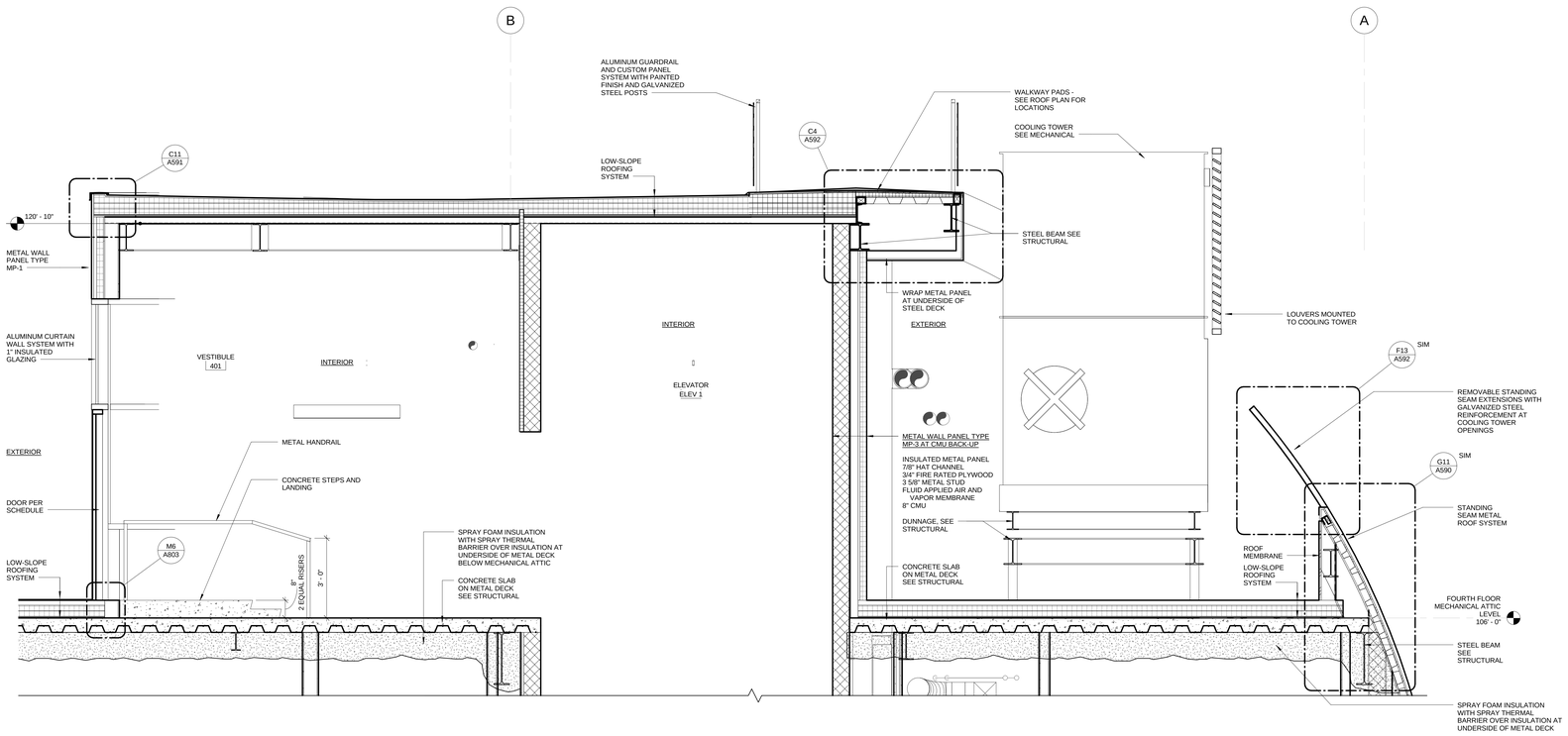
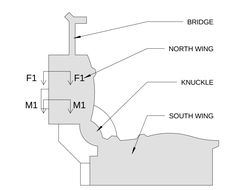


F1 WALL SECTION AT NORTH WING AT COOLING TOWERS
1/2" = 1'-0"



M1 WALL SECTION AT NORTH WING AT COOLING TOWERS AND VESTIBULE
1/2" = 1'-0"



drawing title
WALL SECTIONS – ROOF AT COOLING TOWERS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
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67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

sheet no. 1 of 2
date 11-21-2012
scale As indicated
drawn by LT/AS
checked by RMJ/BR
drawing no. A507

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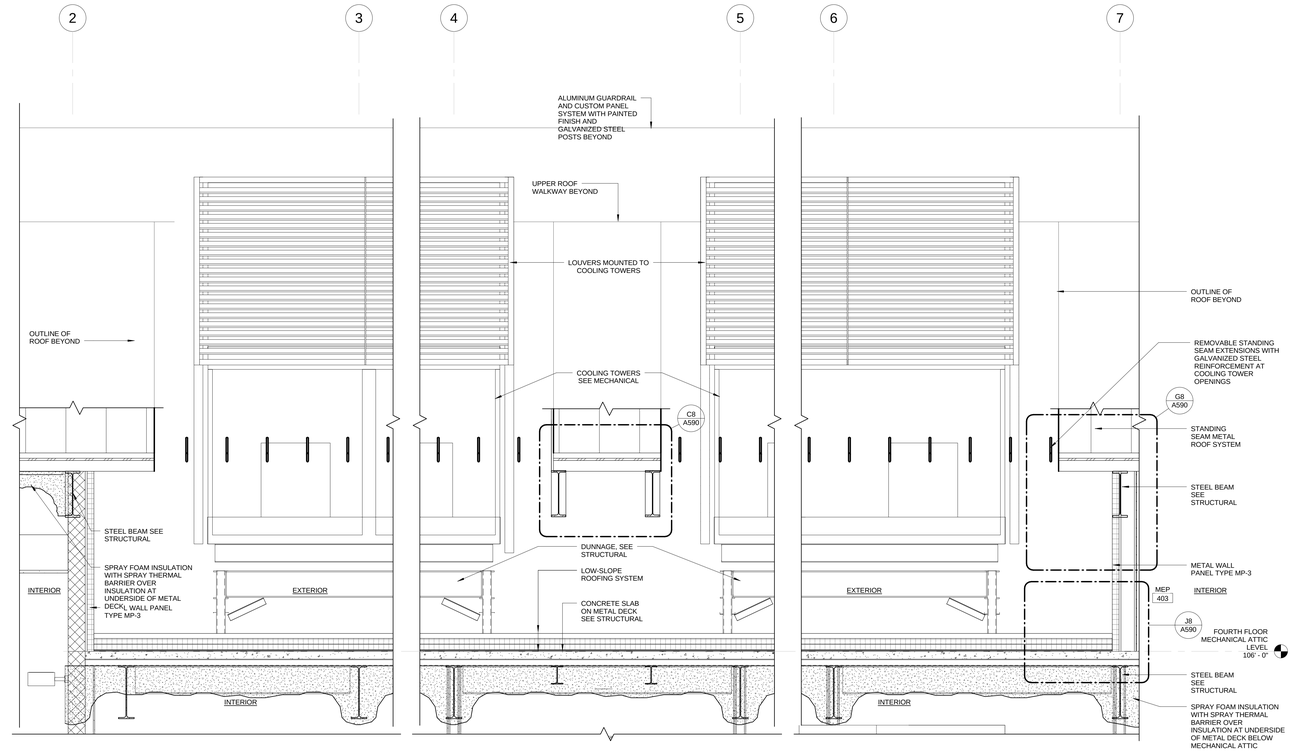
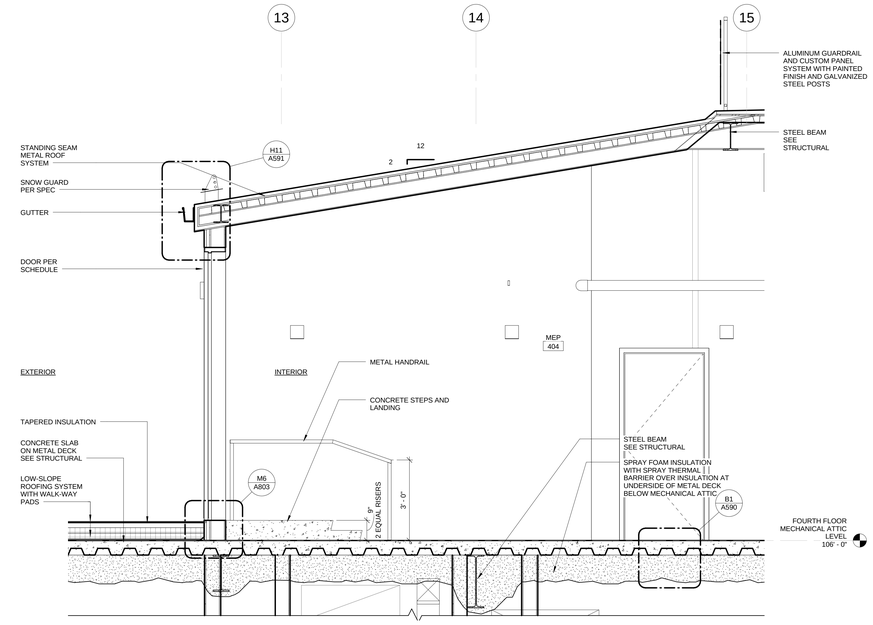
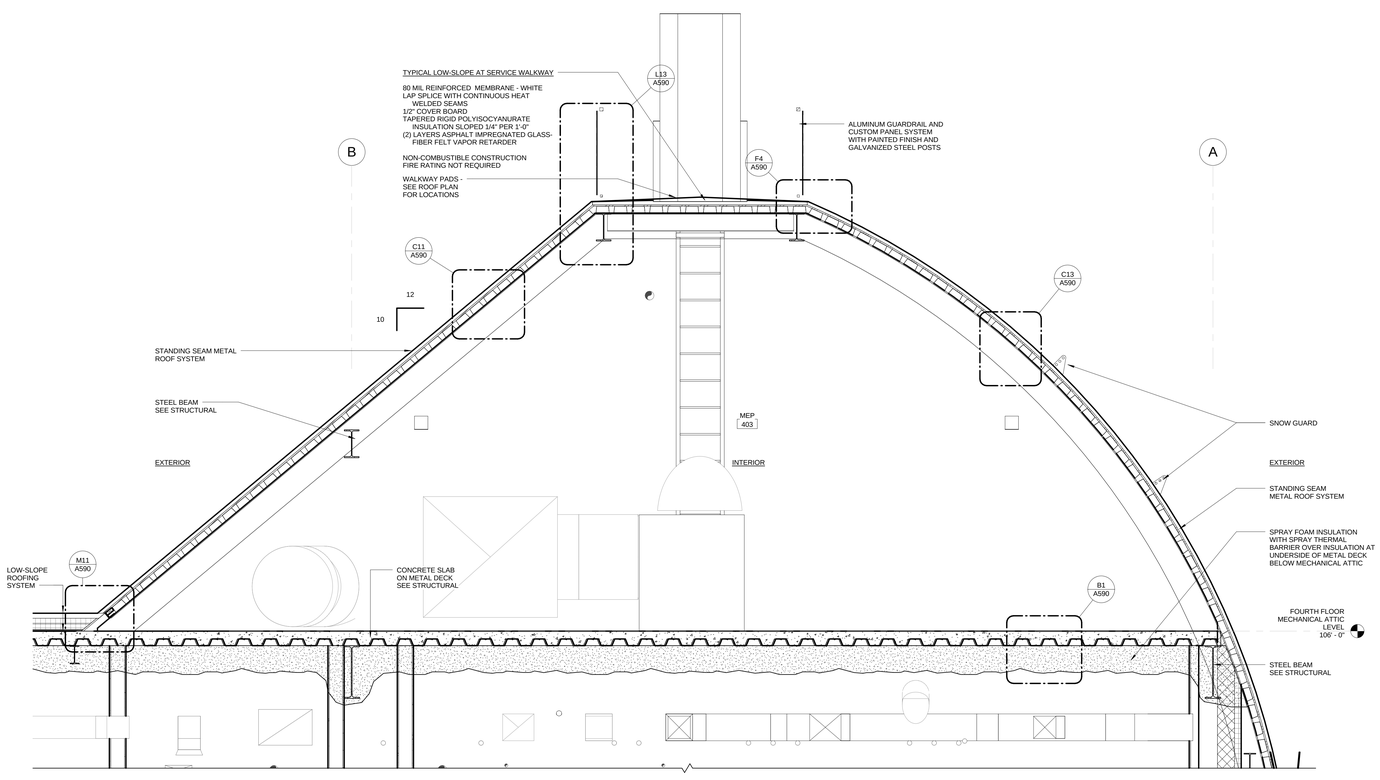


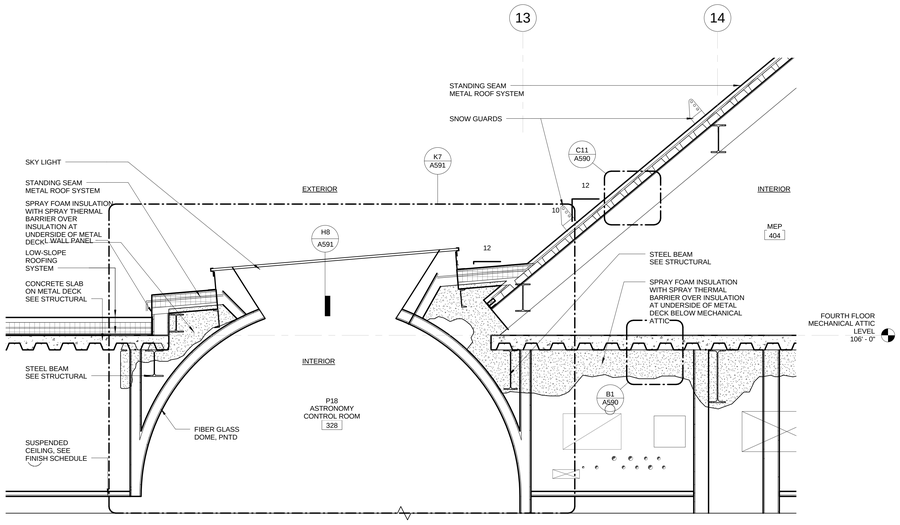
F1 WALL SECTION AT COOLING TOWERS
1/2" = 1'-0"



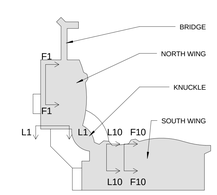
E10 WALL SECTION AT SOUTH WING ROOF DORMER
1/2" = 1'-0"



L1 WALL SECTION AT NORTH WING ROOF
1/2" = 1'-0"

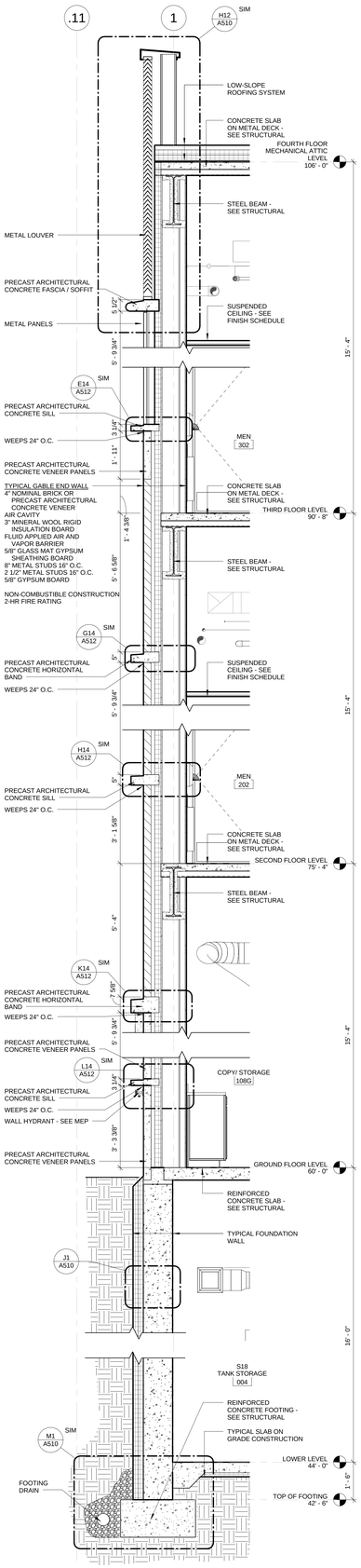


J10 WALL SECTION AT SKYLIGHT AND MECH ATTIC
1/2" = 1'-0"

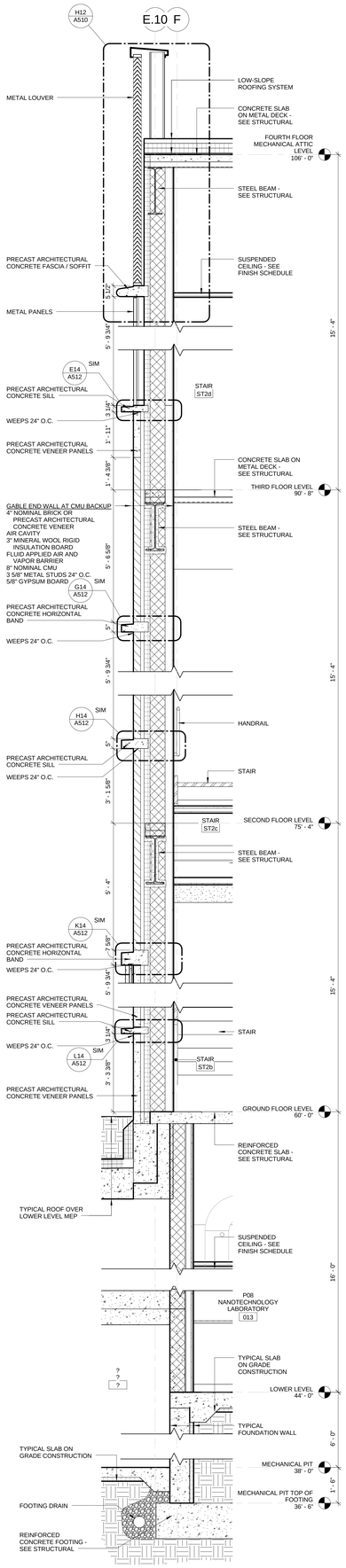


drawing title: WALL SECTIONS – ROOF	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		volume: 1 of 2
REVISIONS			date: 11-21-2012
mark / date / description	DRAWING: Centerbrook Architects and Planners, LLP, 67 Main Street, Post Office Box 955, Centerbrook, Connecticut 06409-0955		scale: As indicated
11-21-2012 Bid Documents			drawn by: LT/AS
	PROJECT: SCSU NEW ACADEMIC LABORATORY BUILDING		approved by: RM/JBR
	CAD: 1393	project no.: BI-RS-283	drawing no.: A508

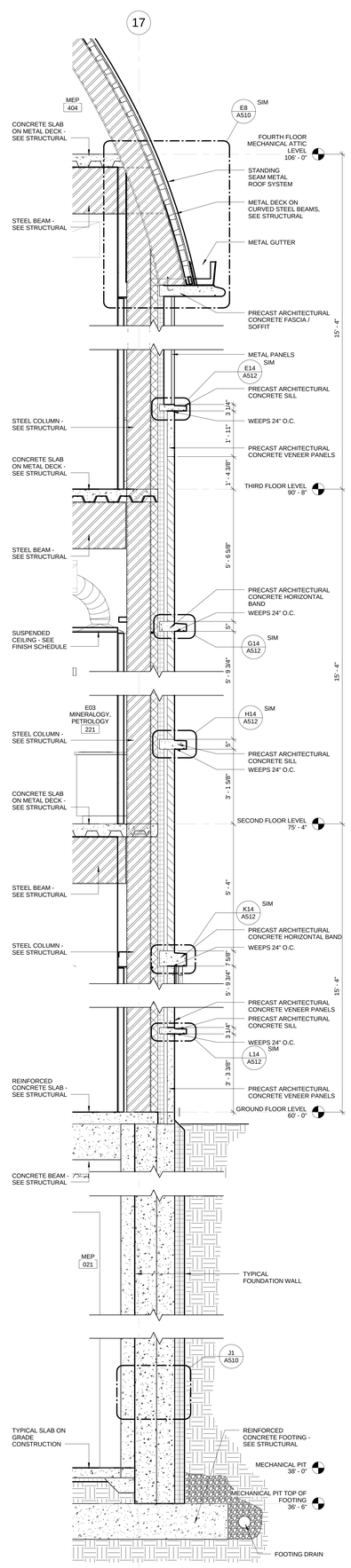
Clifford Lloyd Reid (RS) SCSU New Academic and Laboratory Building 411 Crescent Graphics 11/21/2012 1:20:10 PM



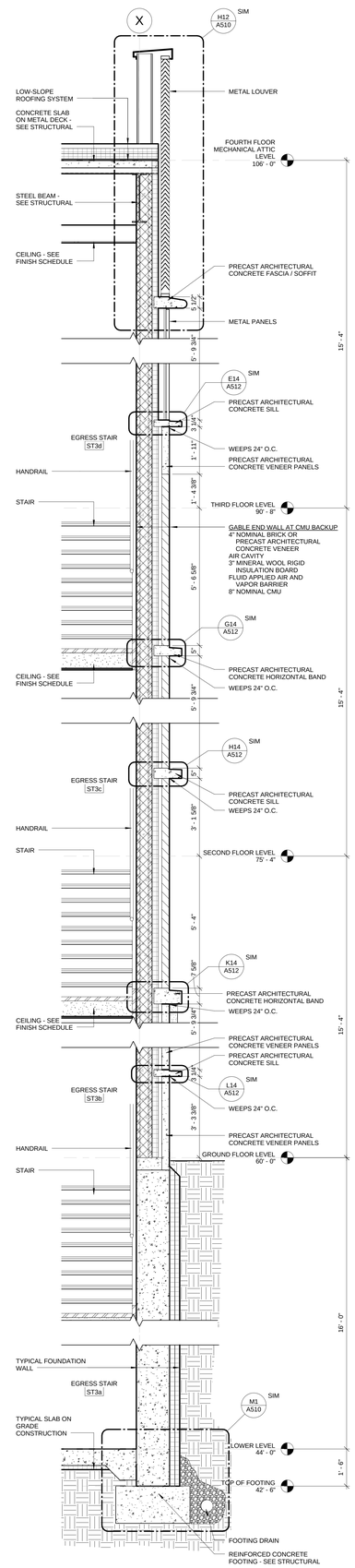
M1 WALL SECTION AT EAST END OF NORTH WING @ FIRE RATED EXTERIOR WALL
1/2" = 1'-0"



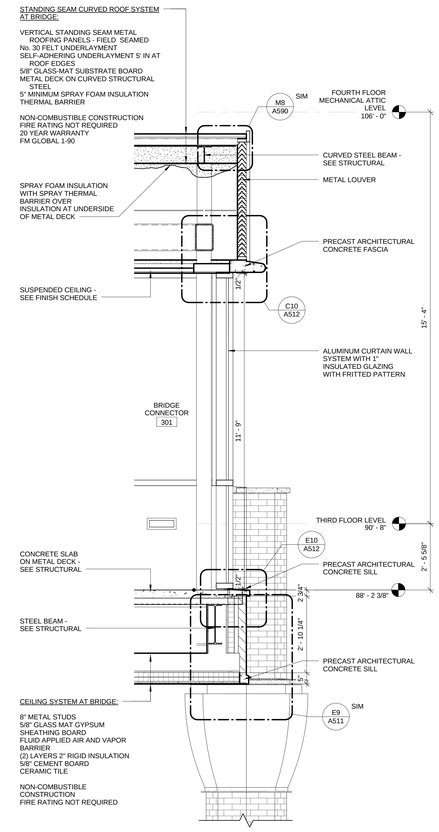
M4 WALL SECTION AT NORTH END OF SOUTH WING @ STAIR 2
1/2" = 1'-0"



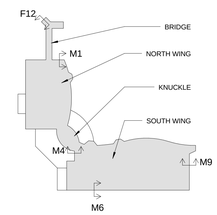
M6 WALL SECTION THROUGH COLUMN AT MASONRY WALL
1/2" = 1'-0"



M9 WALL SECTION AT SOUTH END OF SOUTH WING @ STAIR 3
1/2" = 1'-0"



F12 WALL SECTION AT BRIDGE LOUNGE
1/2" = 1'-0"



drawing title: WALL SECTIONS – MISC

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING: Centerbrook Architects and Planners, LLP, 67 Main Street, Post Office Box 955, Centerbrook, Connecticut 06409-0955

PROJECT: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393 | project no. BI-RS-283

volume: 1 of 2
date: 11-21-2012
scale: As indicated
drawn by: LT
approved by: RM/JBR
drawing no.: A509

Clifford Graf PM | SCSU New Academic and Laboratory Building | C:\Centerbrook_Graphics\
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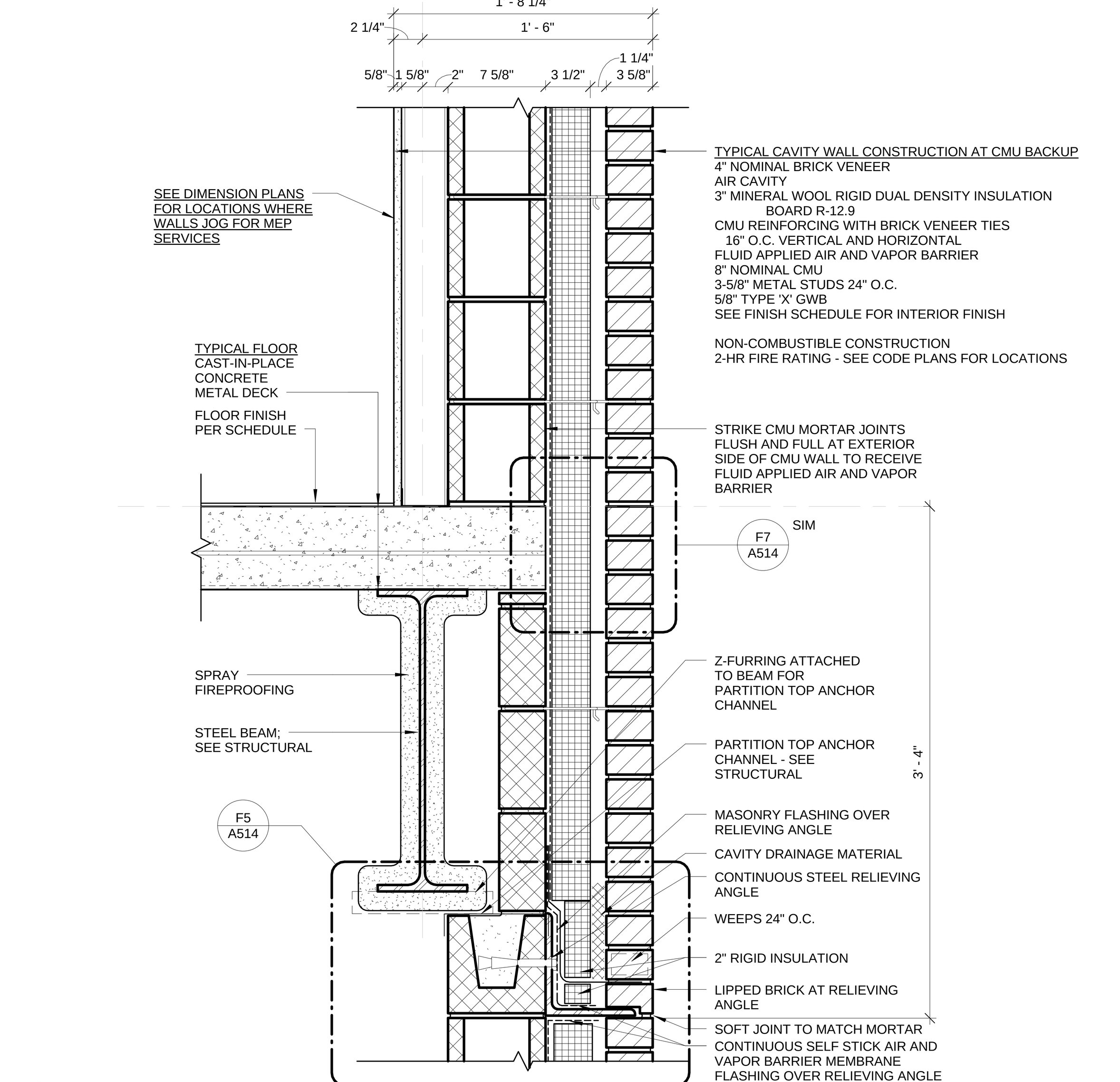
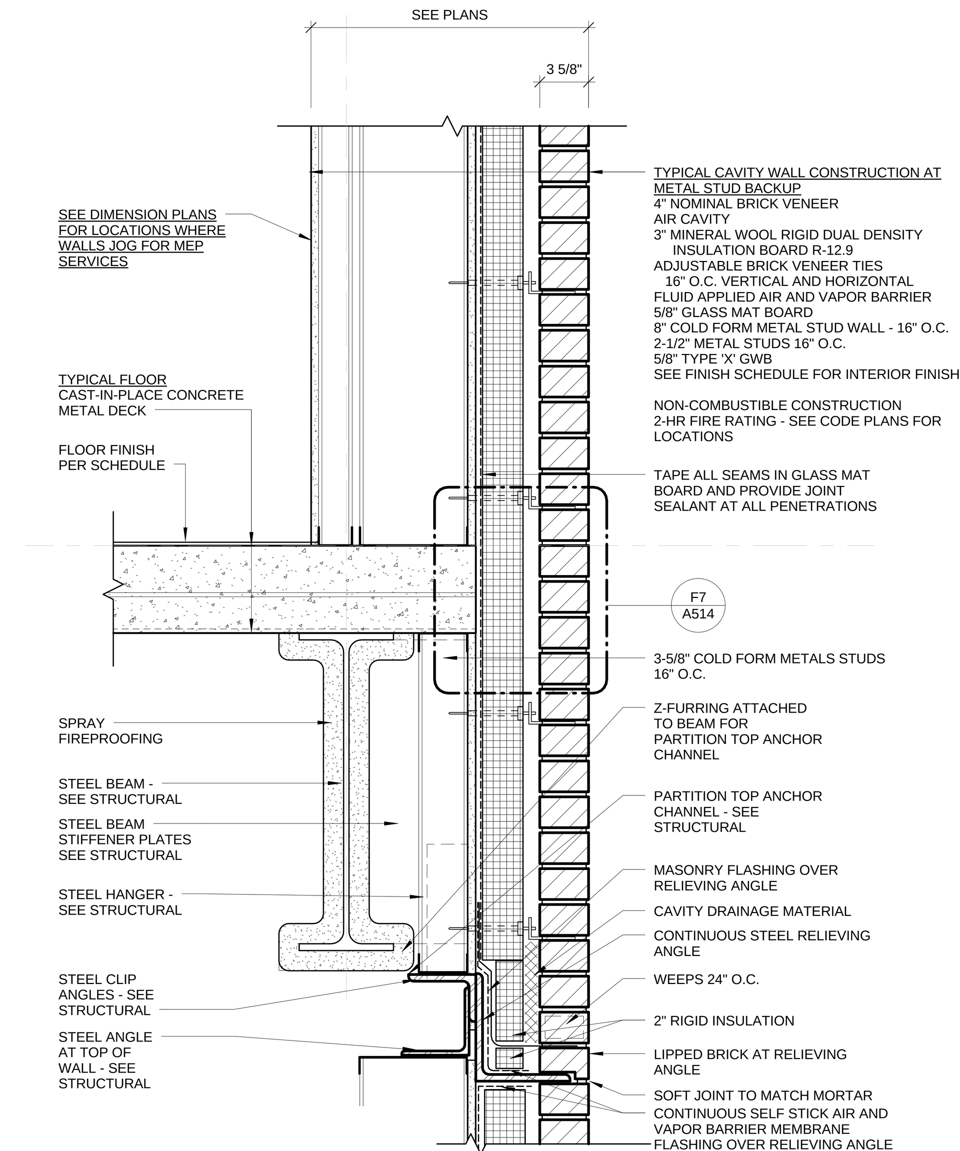
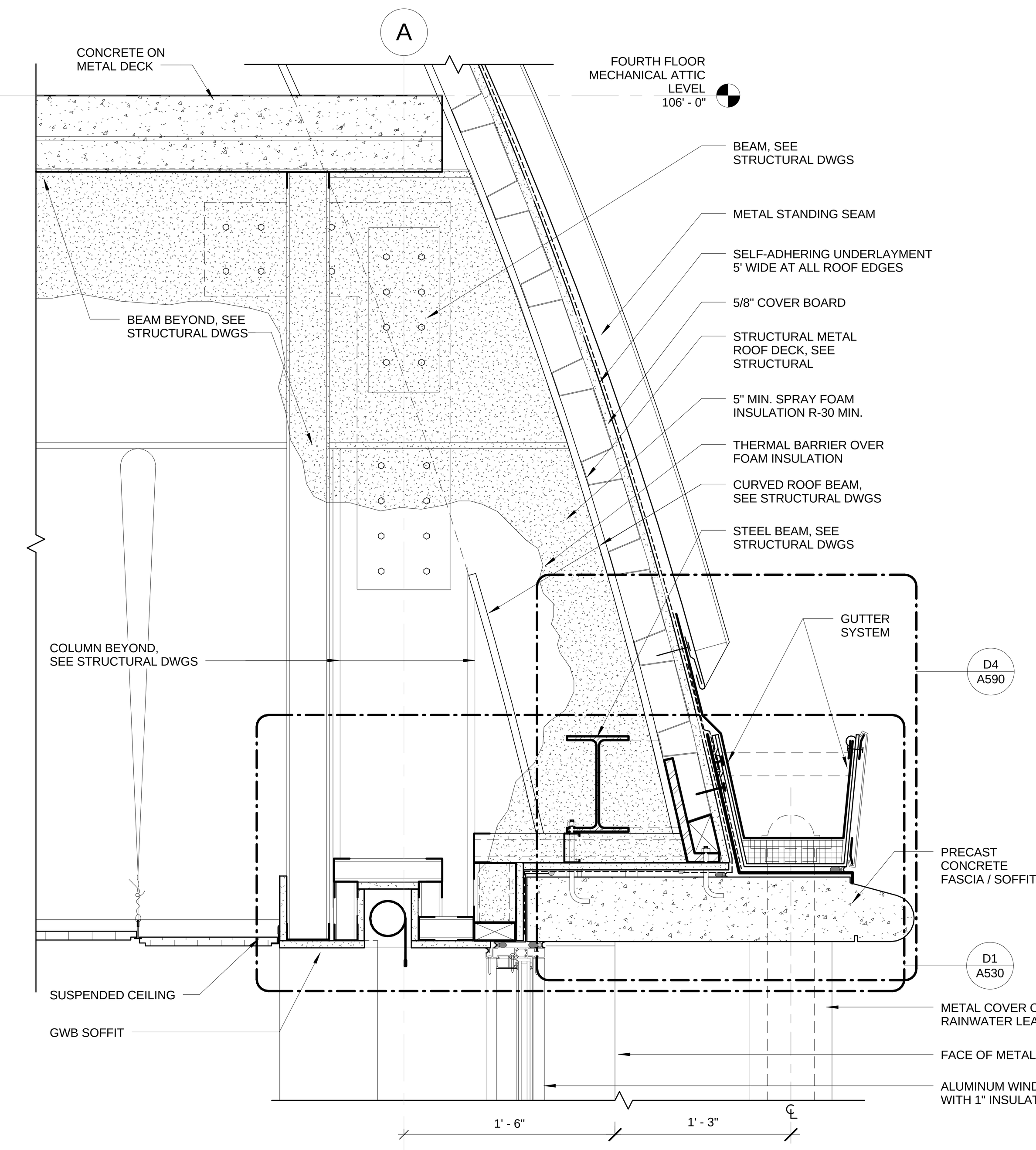


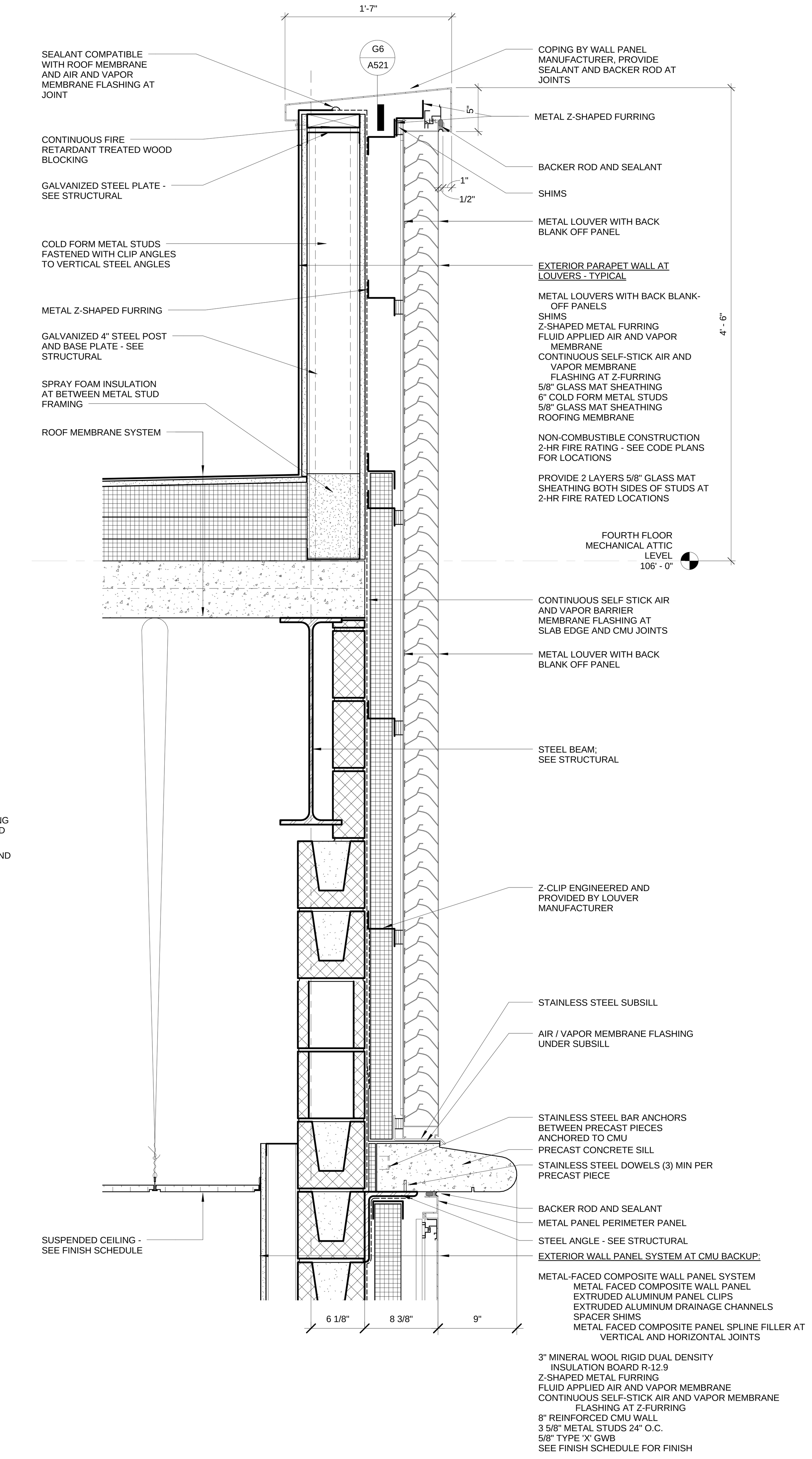
D1 MASONRY WALL WITH CMU BACK-UP AT FLOOR LEVEL, TYPICAL
1 1/2" = 1'-0"



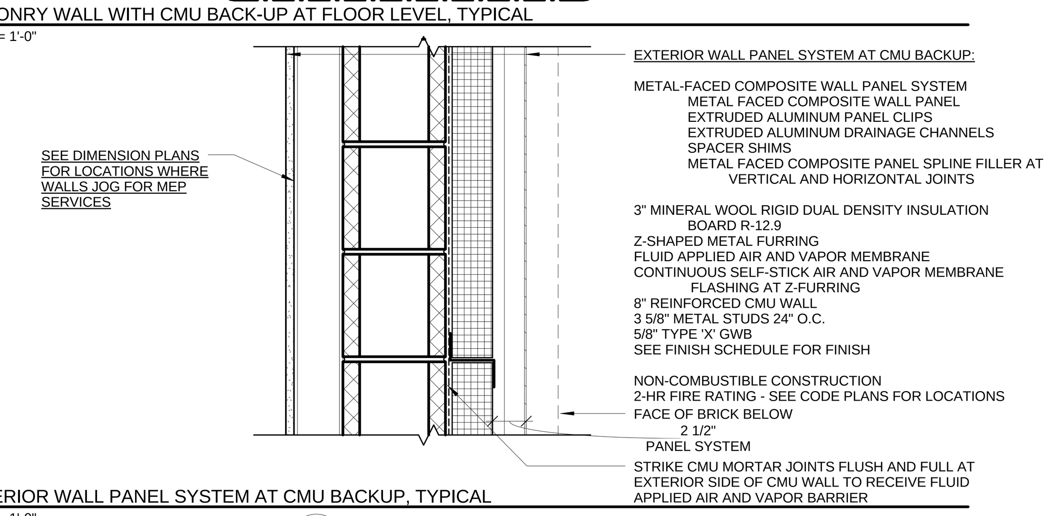
D5 MASONRY WALL WITH METAL STUD BACK-UP AT FLOOR LEVEL, TYPICAL
1 1/2" = 1'-0"



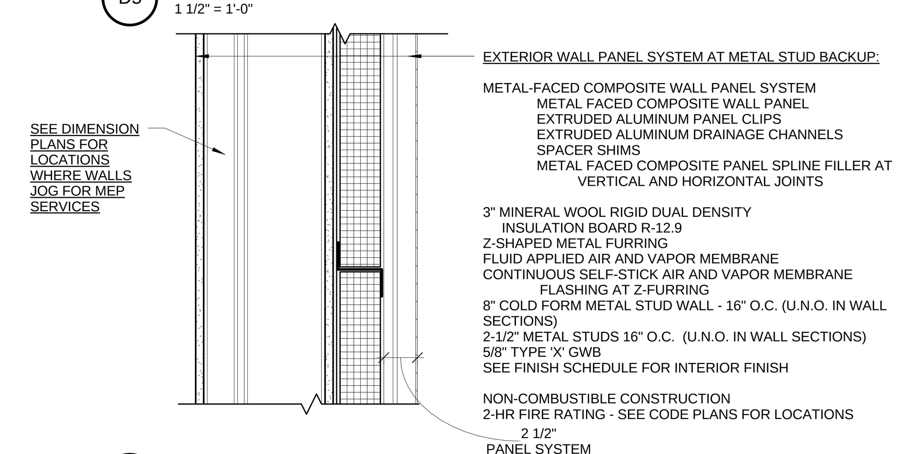
E8 ROOF FASCIA & SOFFIT DETAIL
1 1/2" = 1'-0"



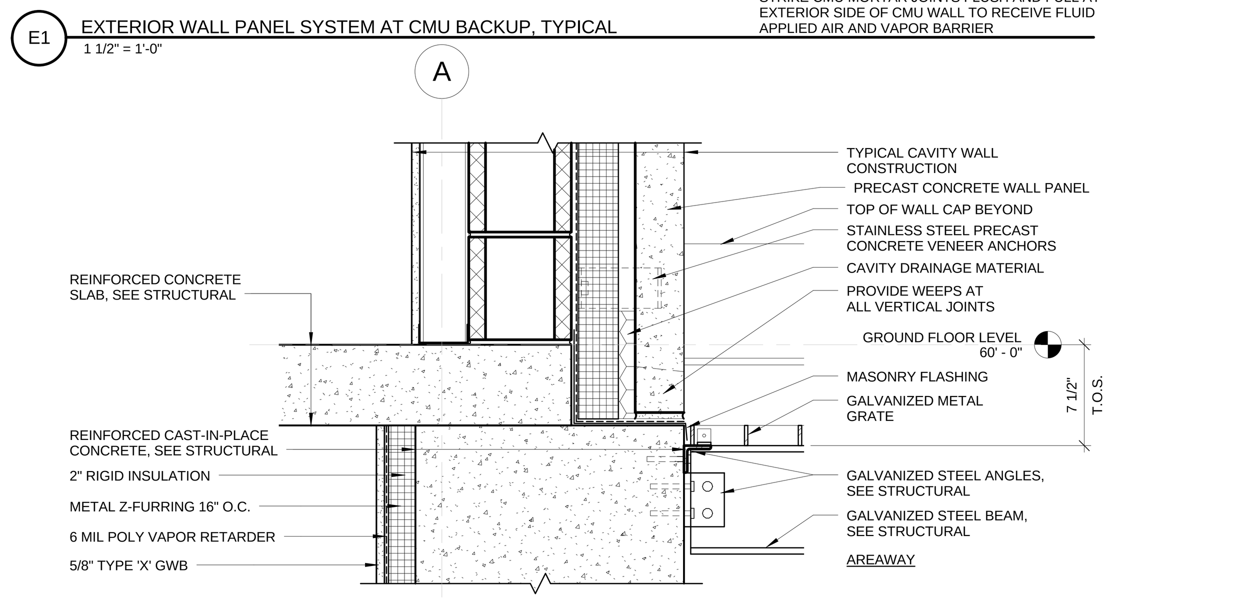
H12 LOUVER AT PARAPET - TYPICAL
1 1/2" = 1'-0"



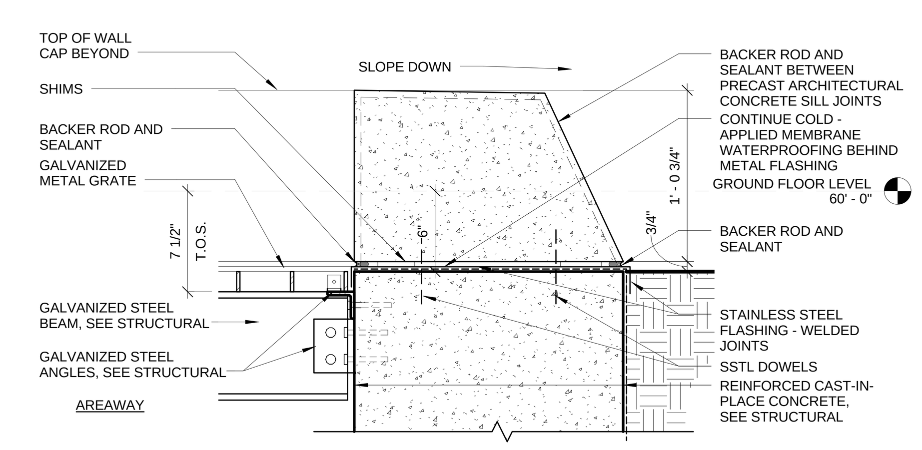
E1 EXTERIOR WALL PANEL SYSTEM AT CMU BACKUP, TYPICAL
1 1/2" = 1'-0"



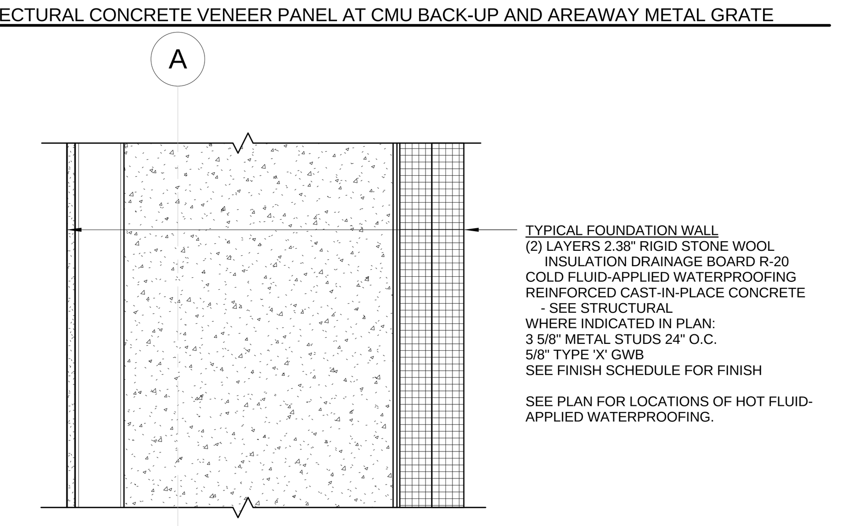
E5 EXTERIOR METAL WALL PANEL SYSTEM AT METAL STUD BACKUP, TYPICAL
1 1/2" = 1'-0"



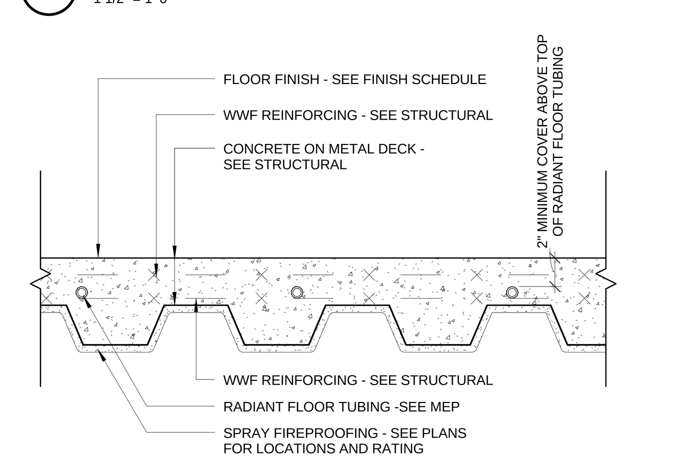
H1 PRECAST ARCHITECTURAL CONCRETE VENEER PANEL AT CMU BACK-UP AND AREAWAY METAL GRATE
1 1/2" = 1'-0"



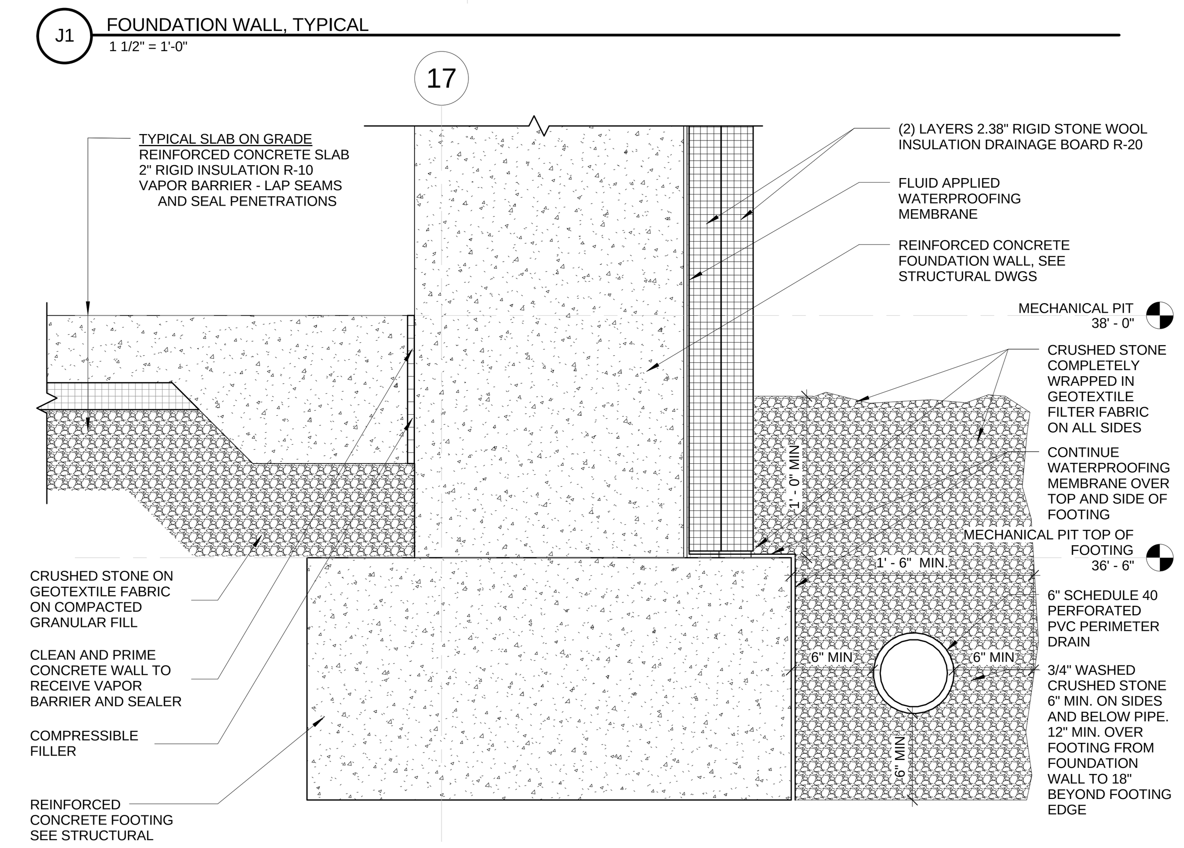
H5 PRECAST ARCHITECTURAL CONCRETE SILL WALL CAP AT AREAWAYS
1 1/2" = 1'-0"



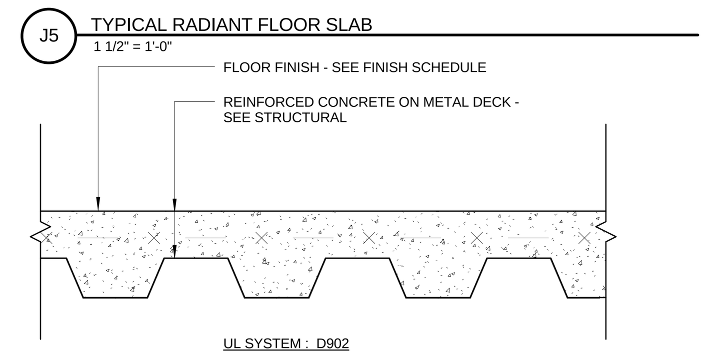
J1 FOUNDATION WALL, TYPICAL
1 1/2" = 1'-0"



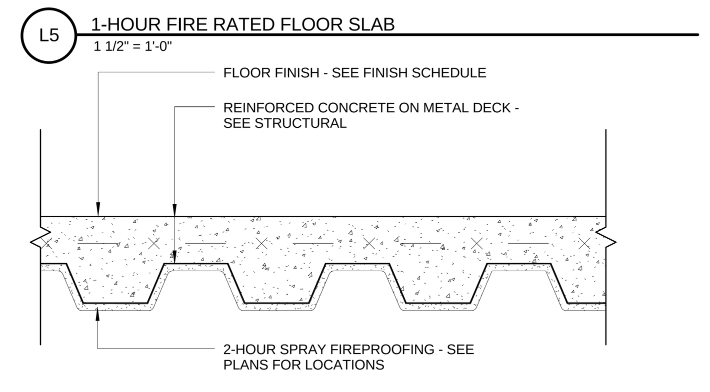
J5 TYPICAL RADIANT FLOOR SLAB
1 1/2" = 1'-0"



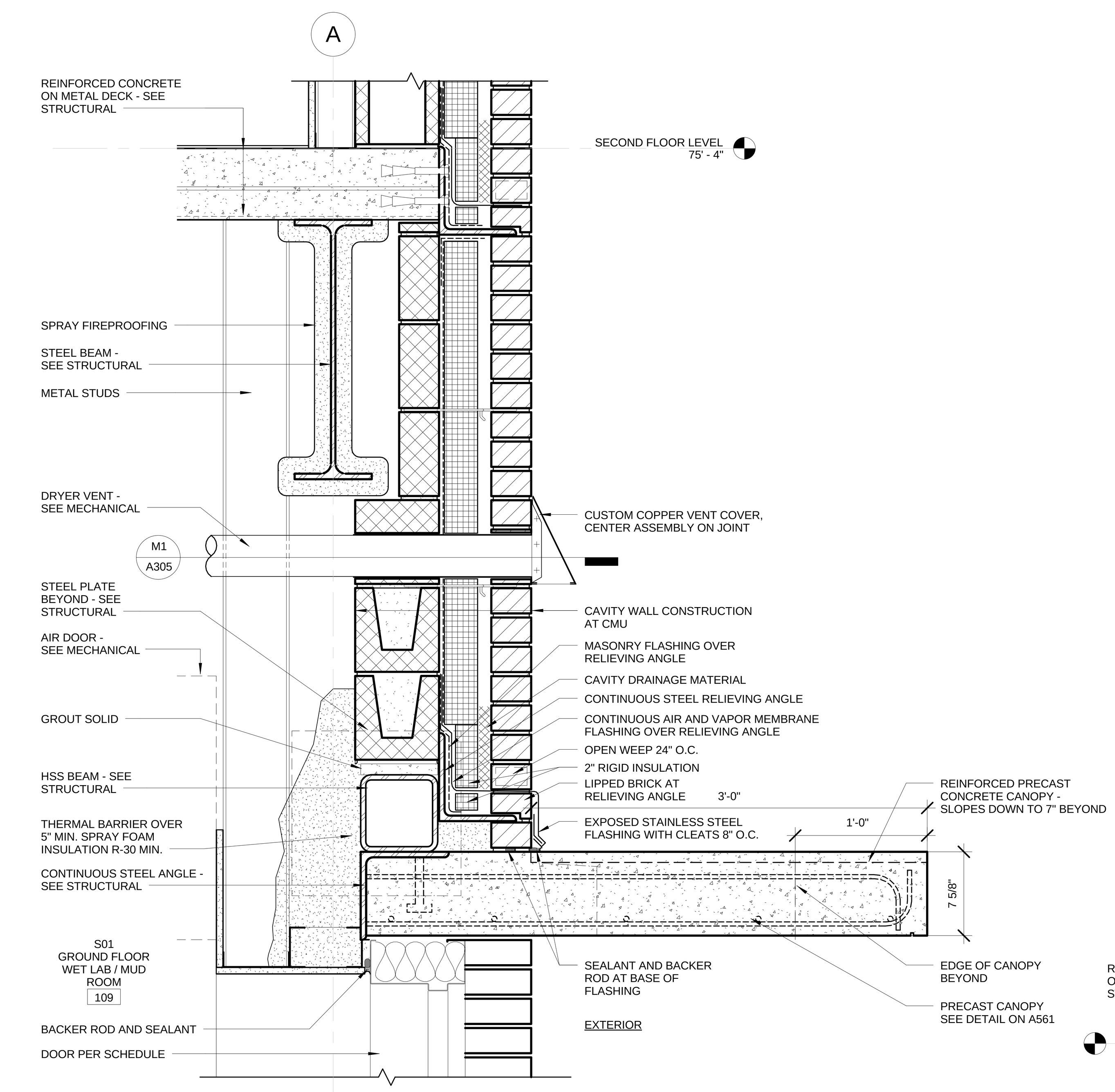
M1 FOOTING DETAIL, TYPICAL
1 1/2" = 1'-0"



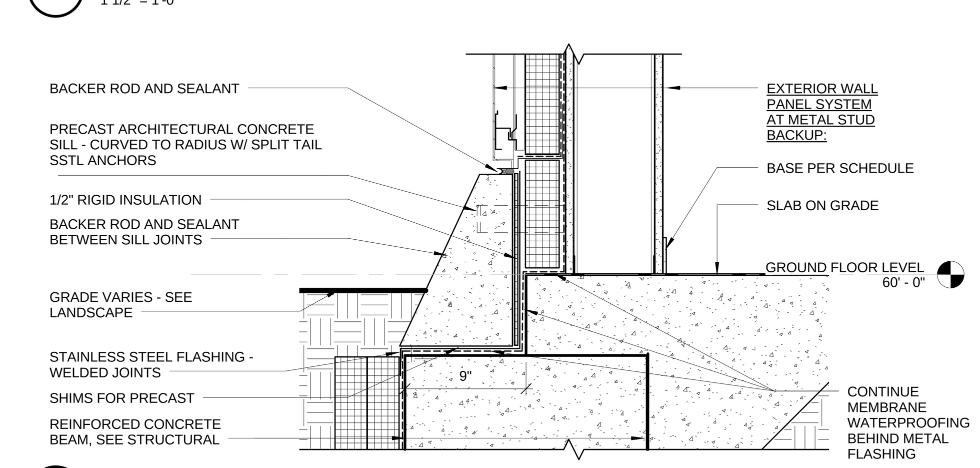
L5 1-HOUR FIRE RATED FLOOR SLAB
1 1/2" = 1'-0"



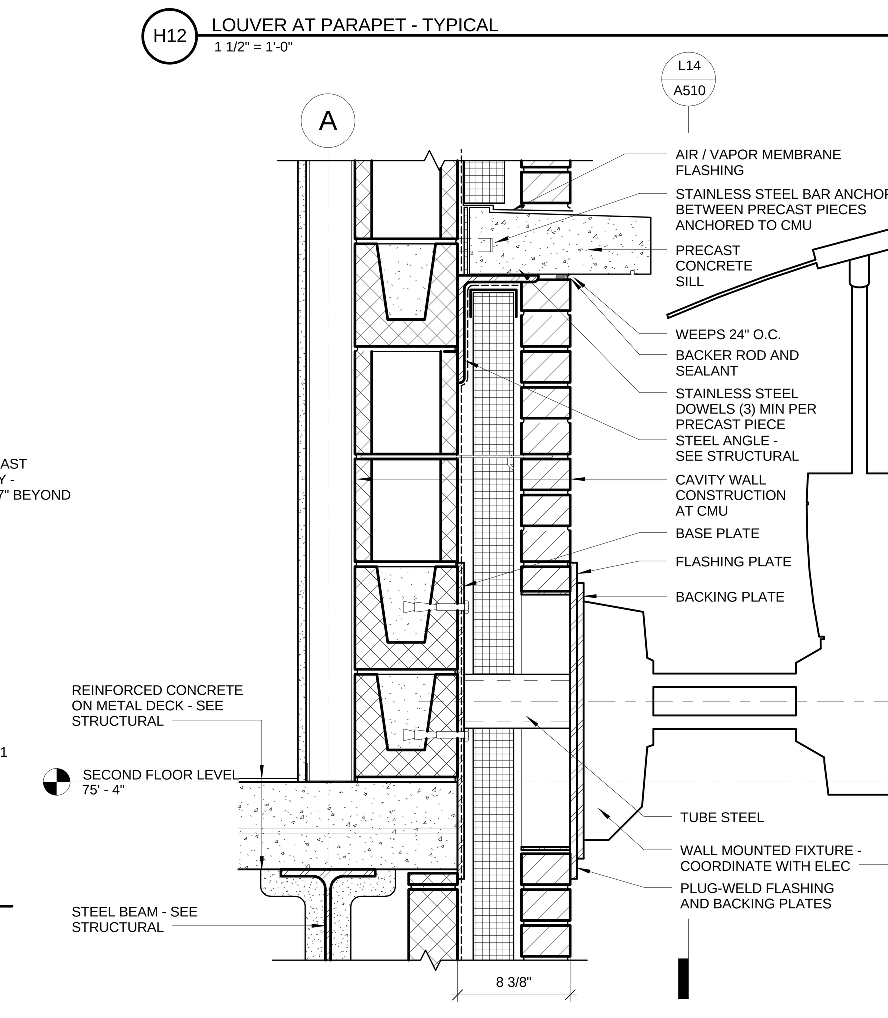
M5 2-HOUR FIRE RATED FLOOR SLAB
1 1/2" = 1'-0"



L8 ROOF DETAIL AT DOOR TO MUD ROOM
1 1/2" = 1'-0"

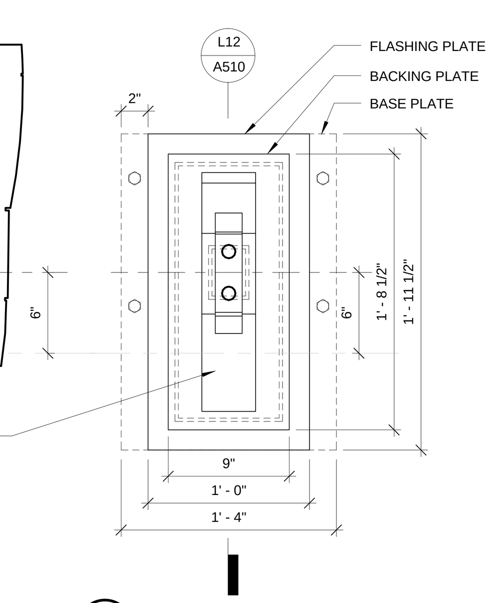


M8 BASE DETAIL AT METAL WALL PANEL
1 1/2" = 1'-0"



L12 LIGHT FIXTURE SUPPORT ASSEMBLY SECTION
1 1/2" = 1'-0"

NOTE:
FLASHING PLATE AND BACKING PLATE TO RECEIVE HOT-DIP GALVANIZING AND FACTORY-APPLIED ARCHITECTURAL FINISH



L14 LIGHT FIXTURE SUPPORT ASSEMBLY
1 1/2" = 1'-0"

drawing title	WALL SECTION DETAILS
REVISIONS	mark / date / description: 11-21-2012 Bid Documents
	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES
DRAWING PREPARED BY	Centerbrook Architects and Planners, LLP 67 Main Street Post Office Box 955 Centerbrook, Connecticut 06409-0955
project	SCSU NEW ACADEMIC LABORATORY BUILDING
CAD no.	1393
project no.	BI-RS-283
volume	1 of 2
date	11-21-2012
scale	1 1/2" = 1'-0"
drawn by	LT/AS
approved by	RM/JBR
drawing no.	A510

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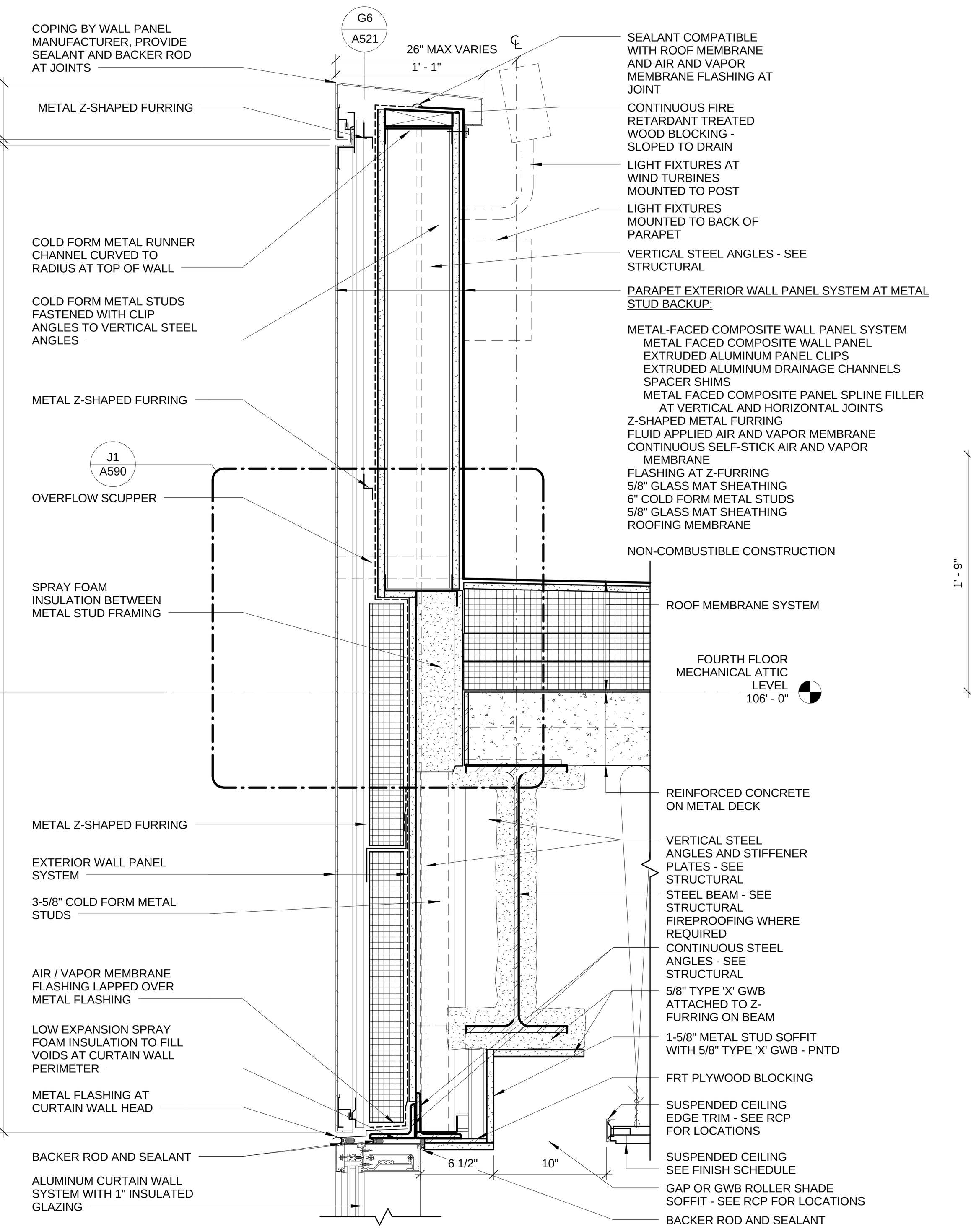
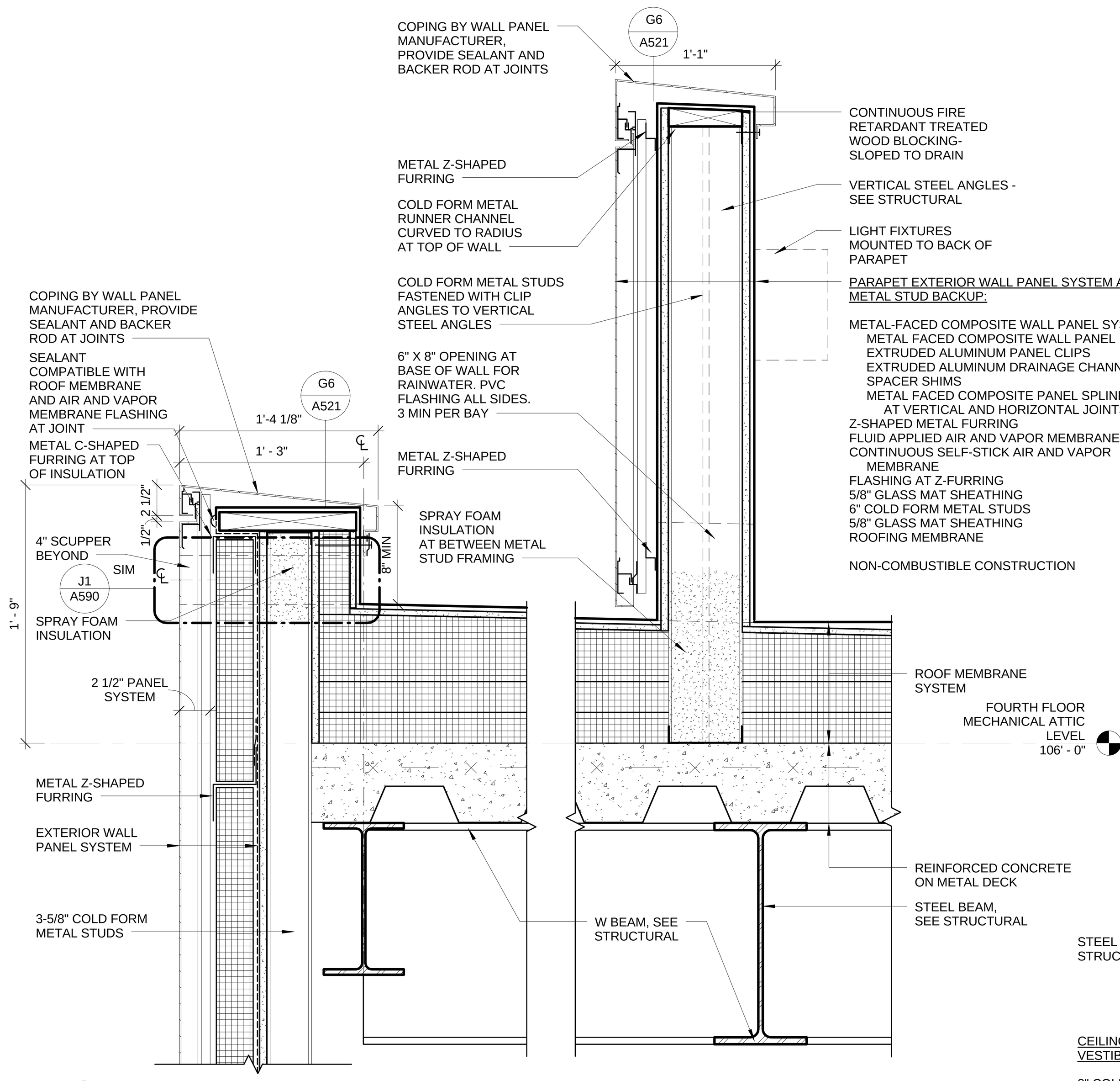
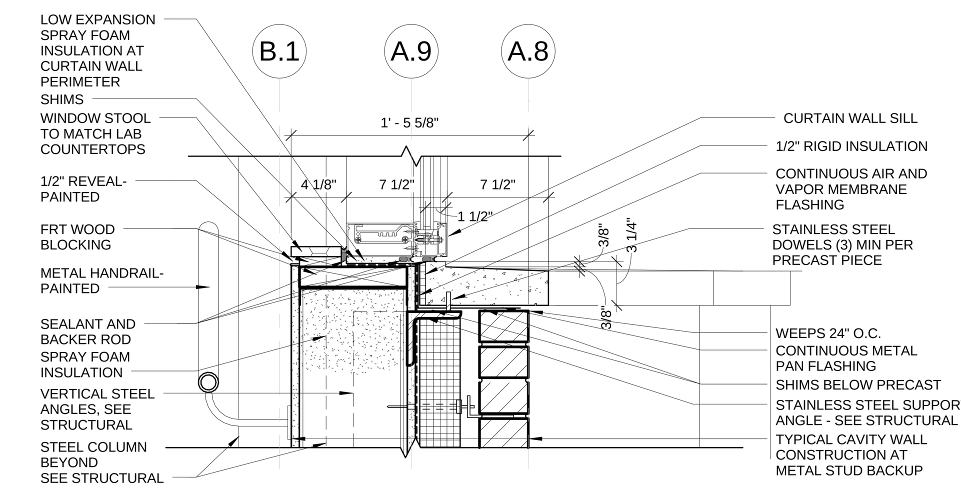


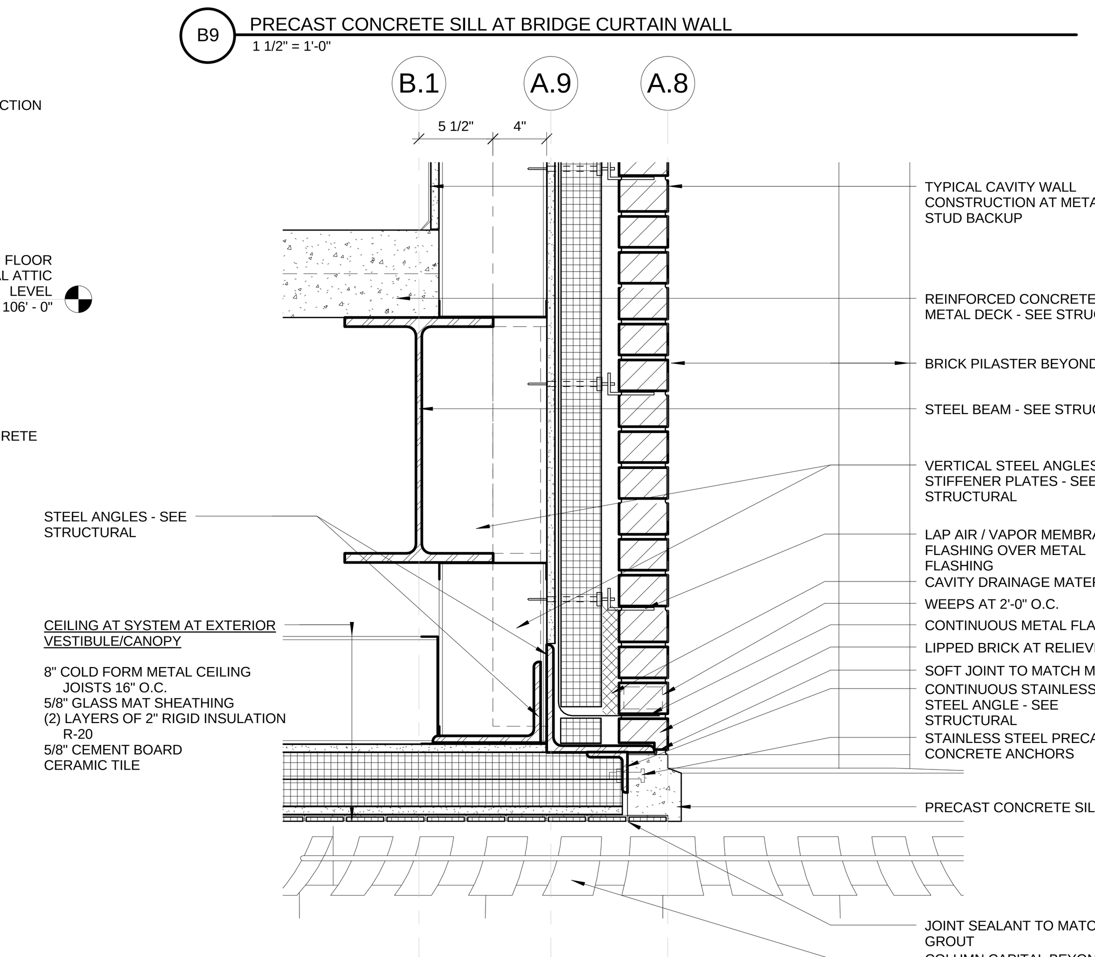
E1 TYPICAL PARAPET DETAIL
1 1/2" = 1'-0"



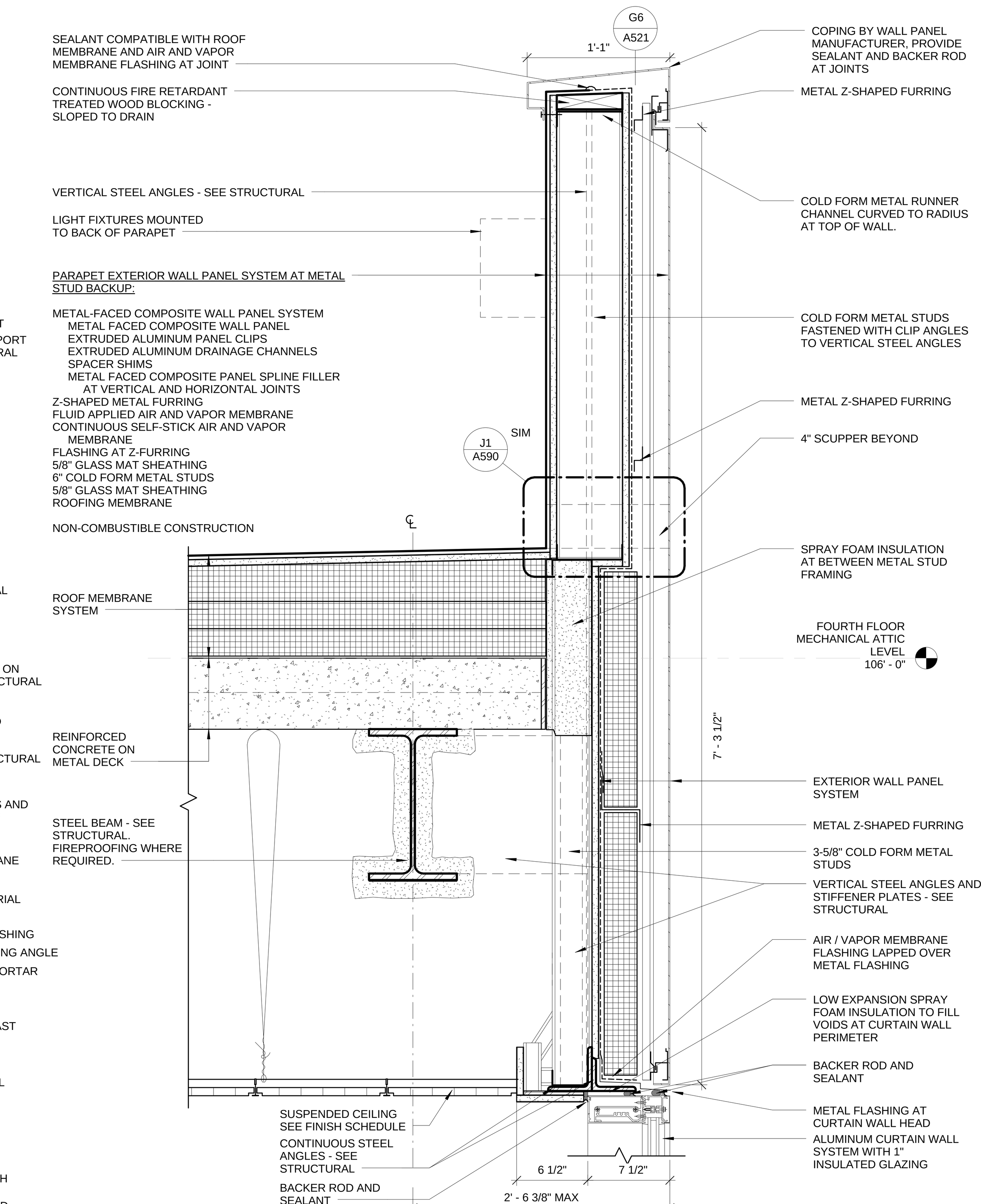
D5 PARAPET AT BAY ROOF
1 1/2" = 1'-0"



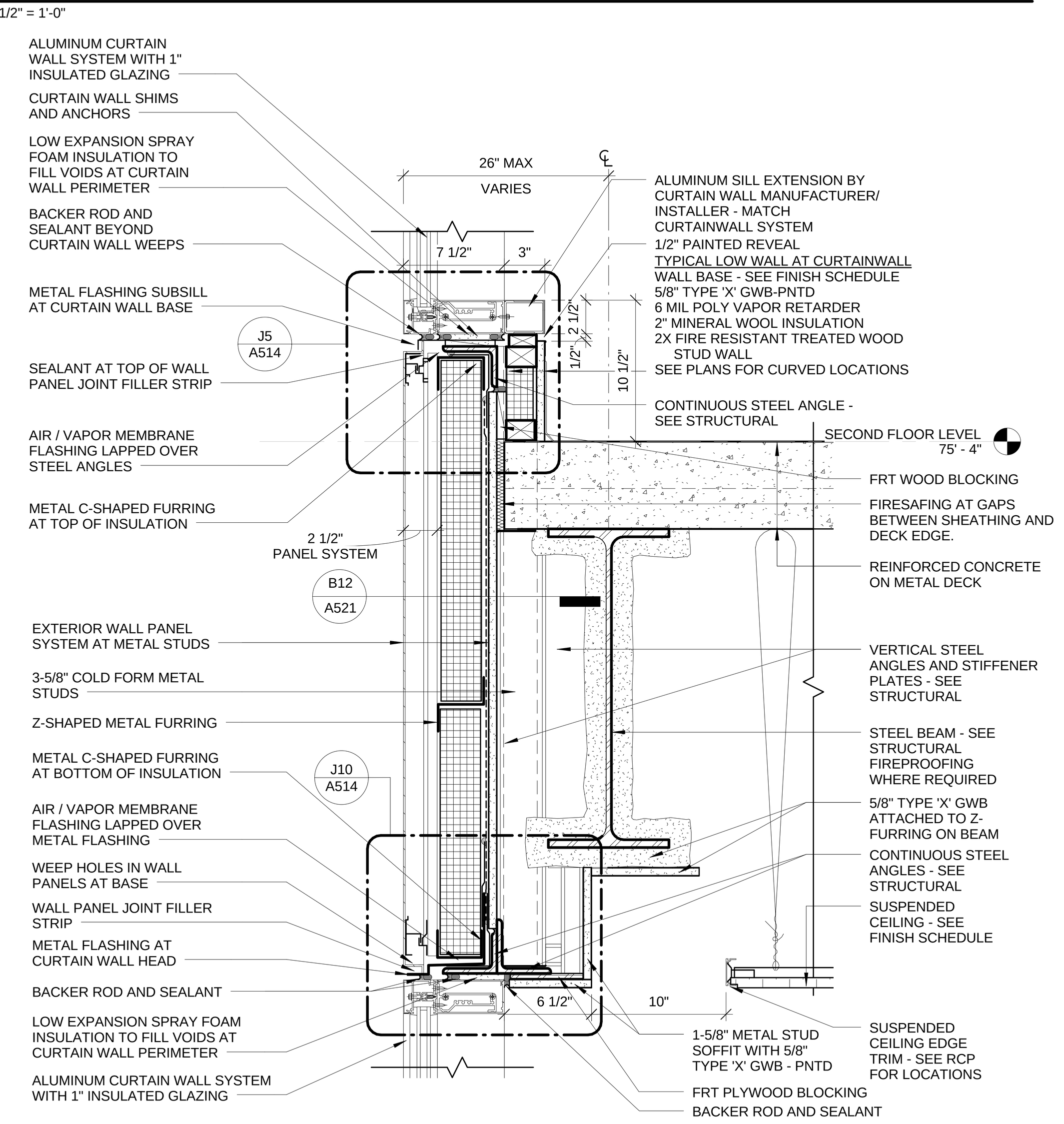
B9 PRECAST CONCRETE SILL AT BRIDGE CURTAIN WALL
1 1/2" = 1'-0"



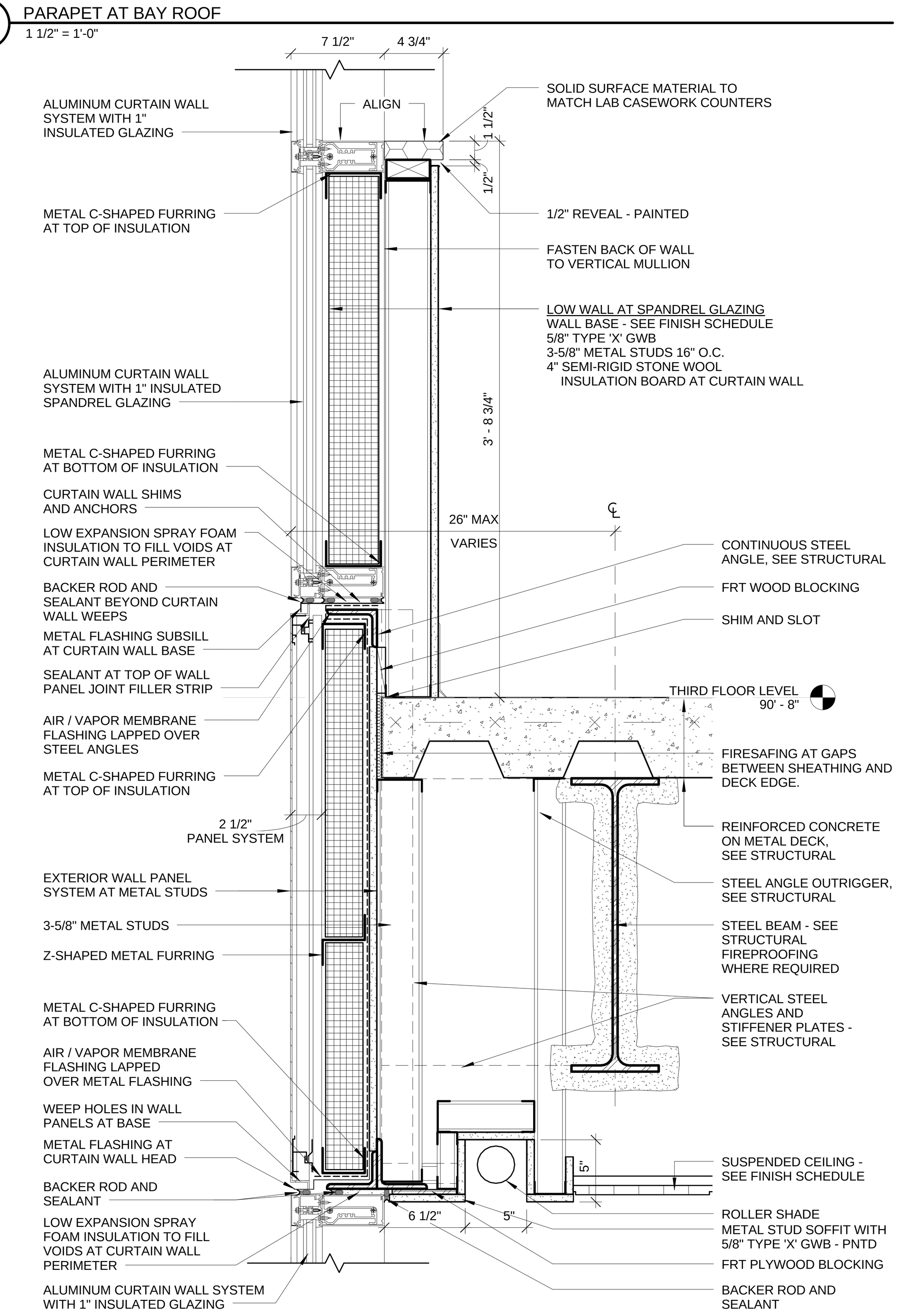
E9 PRECAST CONCRETE SOFFIT AT BRIDGE CEILING - TYPICAL
1 1/2" = 1'-0"



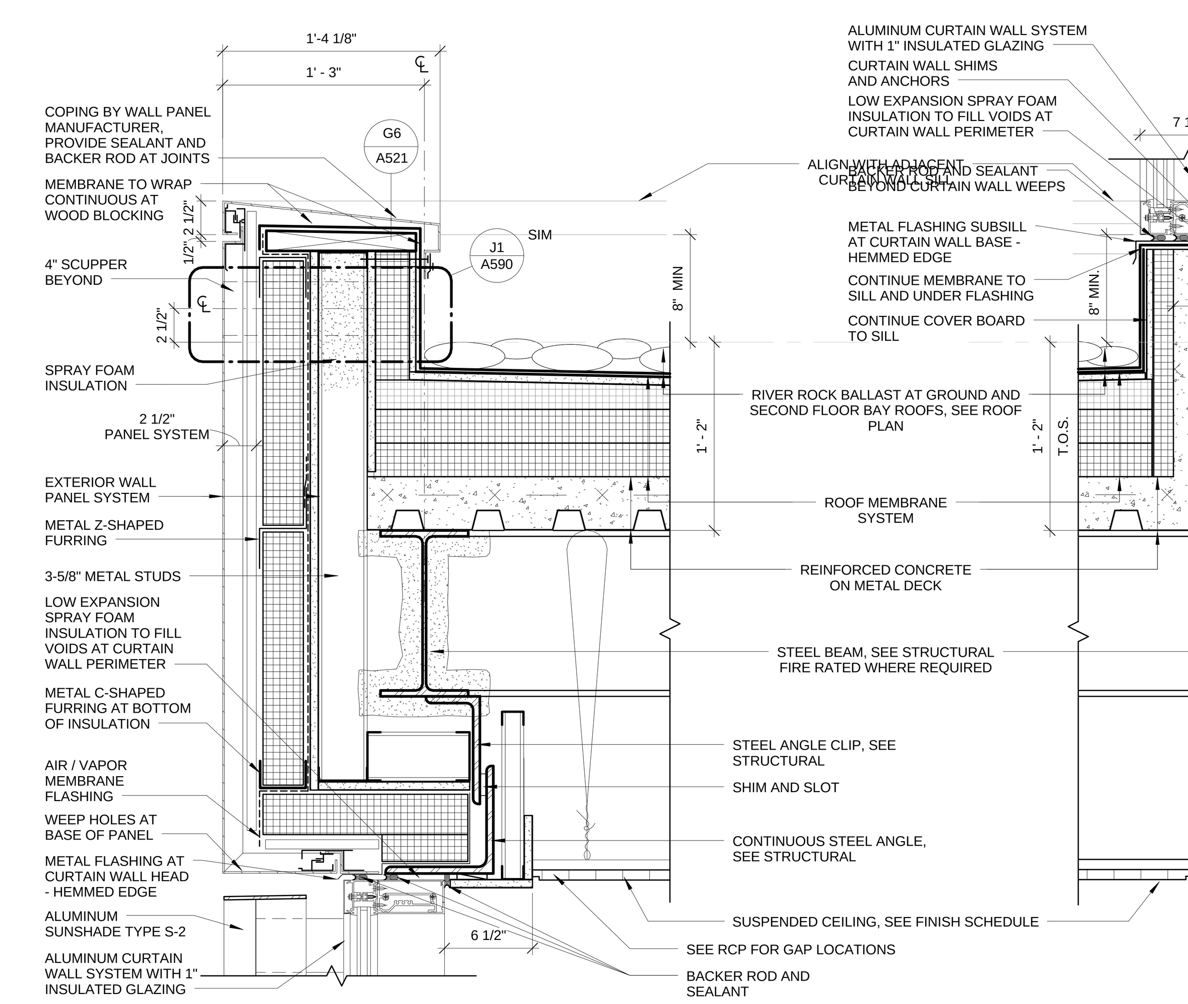
E12 PARAPET AT KNUCKLE
1 1/2" = 1'-0"



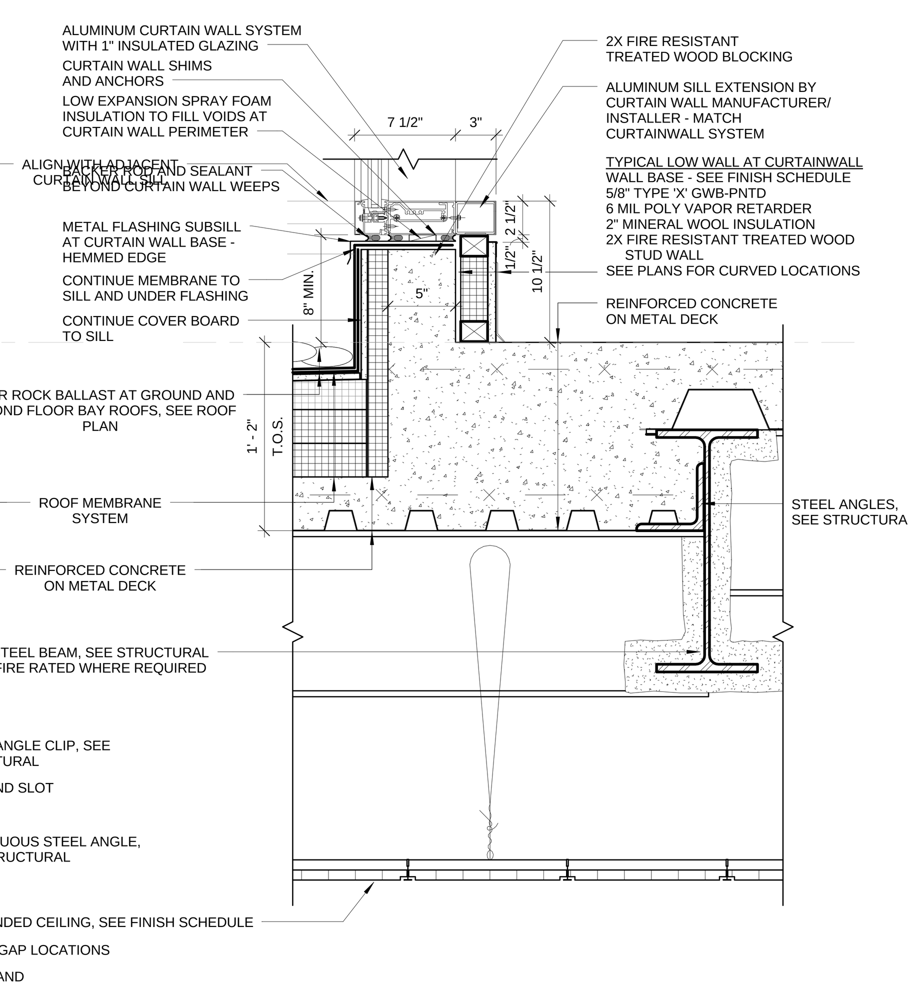
J1 WALL PANEL SYSTEM AT FLOOR LEVEL DETAIL, TYPICAL
1 1/2" = 1'-0"



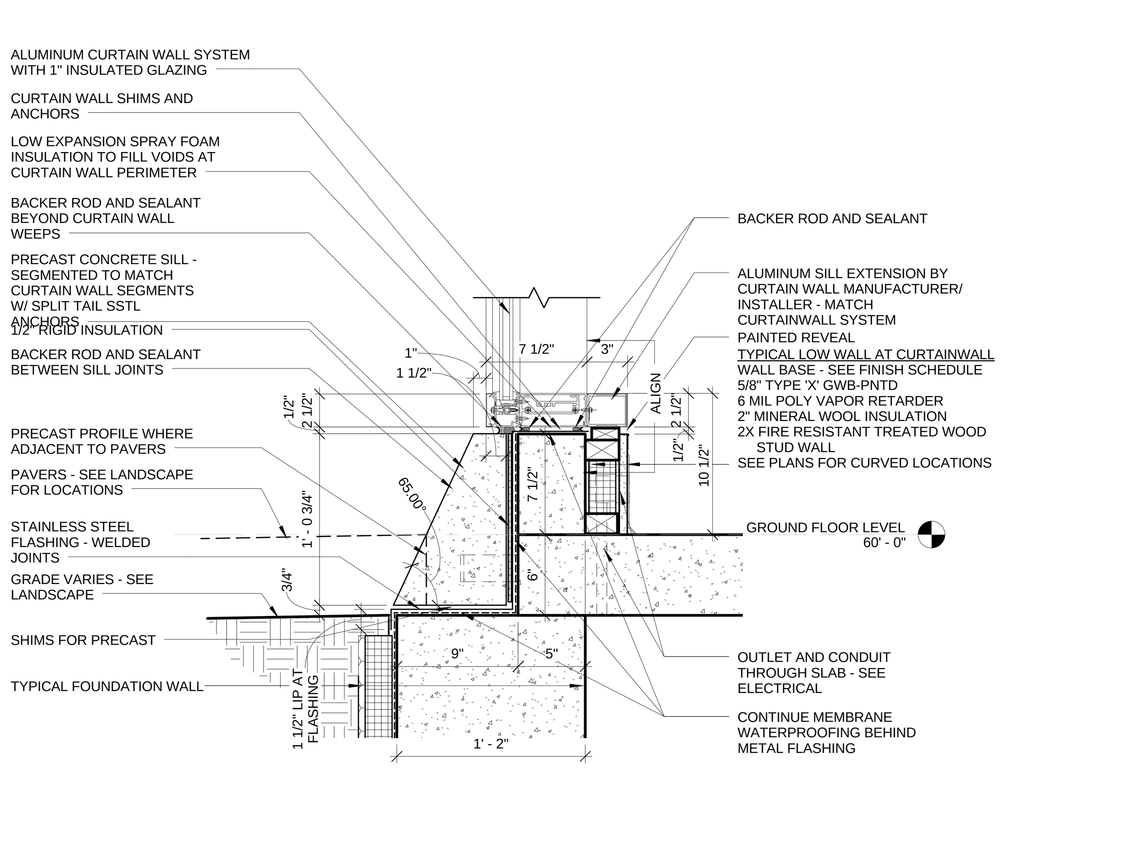
J5 WALL PANEL SYSTEM AT FLOOR LEVEL AND LOW WALL AT SPANDREL GLAZING
1 1/2" = 1'-0"



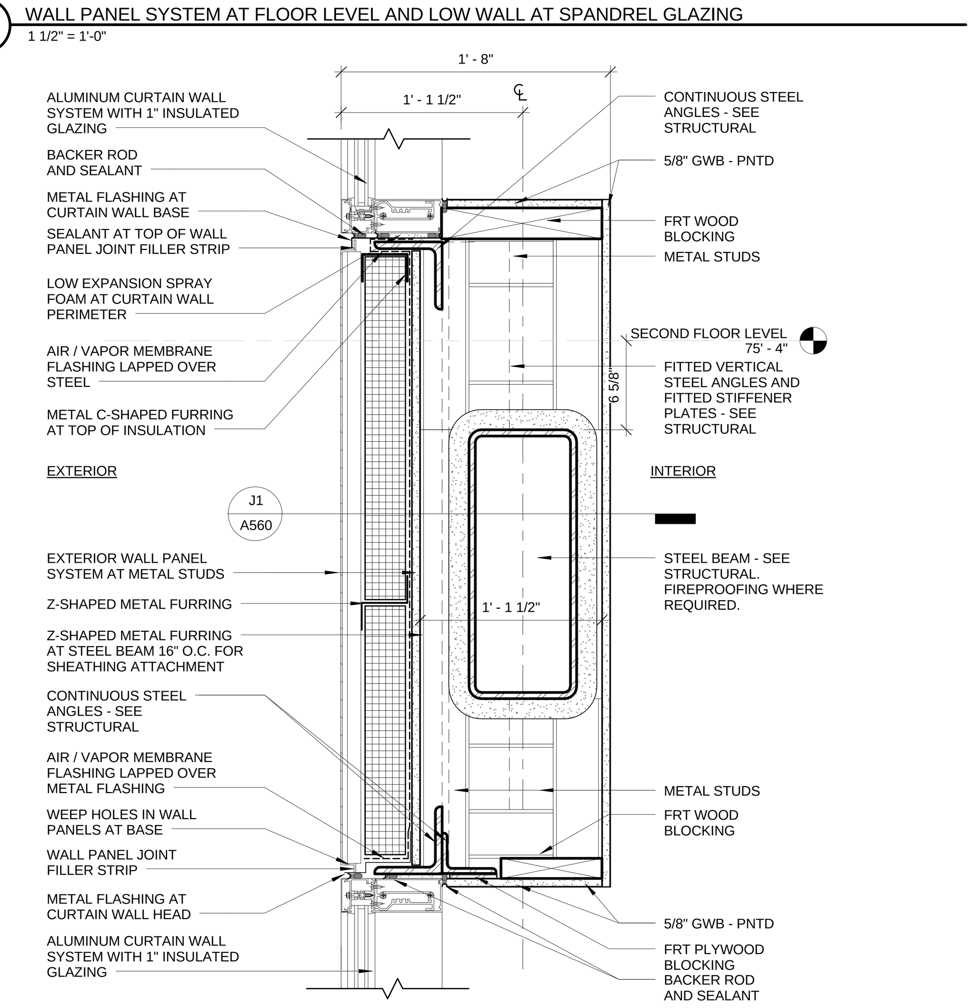
J9 BAY ROOF PARAPET AT SECOND AND THIRD LEVELS
1 1/2" = 1'-0"



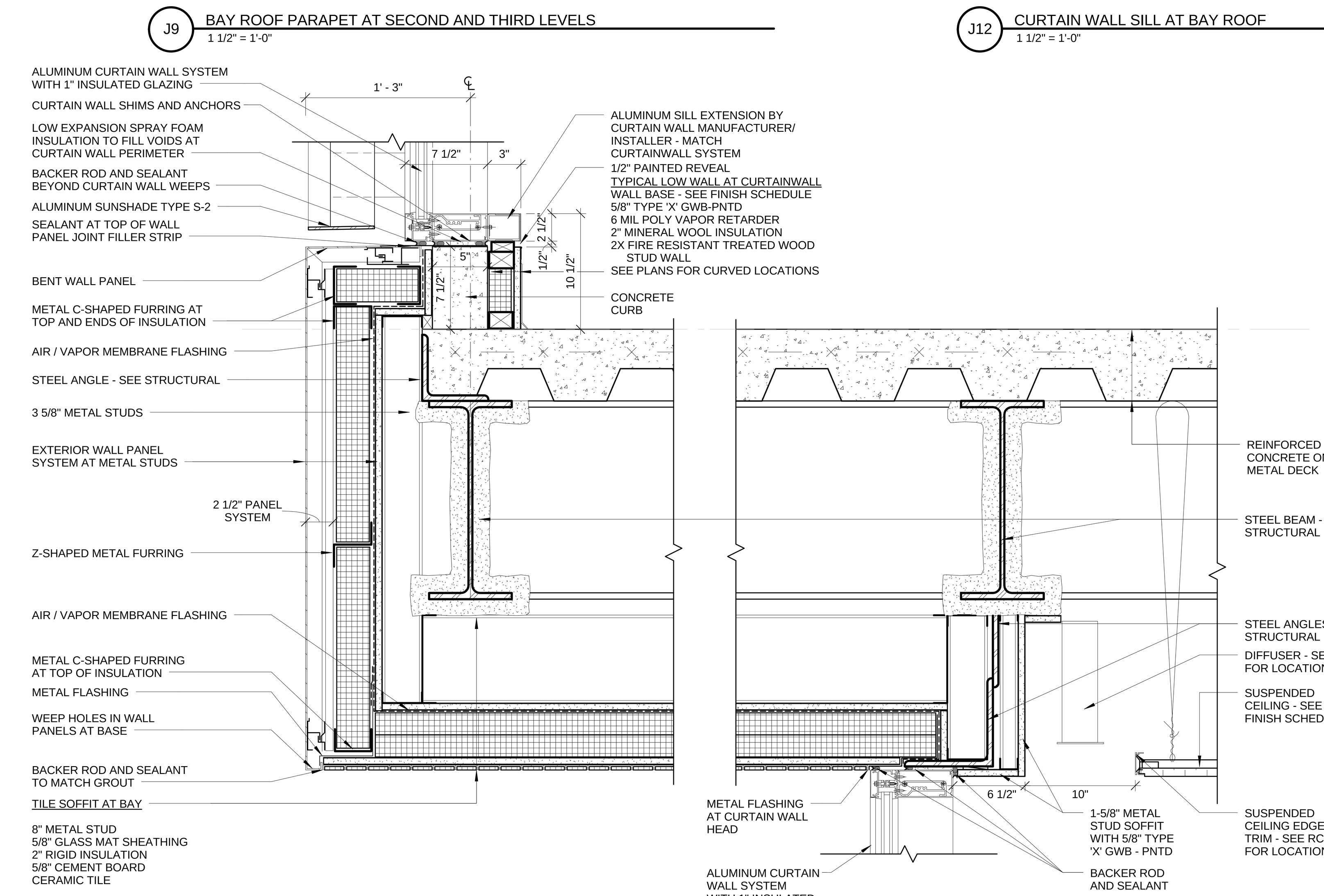
J12 CURTAIN WALL SILL AT BAY ROOF
1 1/2" = 1'-0"



M1 CURTAIN WALL BASE DETAIL, TYPICAL
1 1/2" = 1'-0"



M5 CURTAIN WALL DETAIL AT 2ND FLOOR LEVEL AT CORRIDOR 110
1 1/2" = 1'-0"



M9 BAY SOFFIT DETAIL
1 1/2" = 1'-0"

drawing title: WALL SECTION DETAILS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES	volume: 1 of 2
REVISIONS	DRAWING PREPARED BY: Centerbrook Architects and Planners, LLP 67 Main Street Post Office Box 955 Centerbrook, Connecticut 06409-0955	date: 11-21-2012
mark / date / description: 11-21-2012 Bid Documents		scale: 1 1/2" = 1'-0"
	project: SCSU NEW ACADEMIC LABORATORY BUILDING	drawn by: LT/AS
		approved by: RM/JBR
	CAD no.: 1393 / project no.: BI-RS-283	drawing no.: A511

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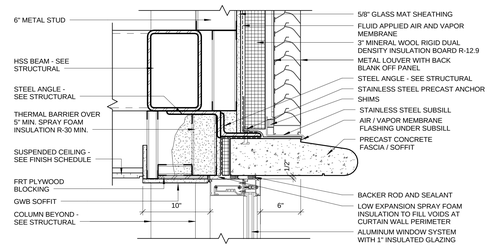
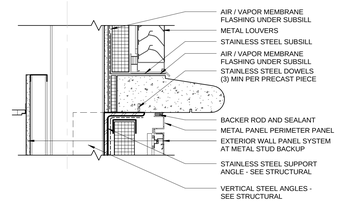
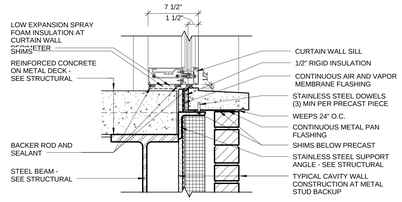


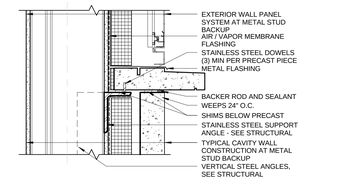
C10 PRECAST CONCRETE WINDOW HEAD DETAIL AT BRIDGE GABLE END
1 1/2" = 1'-0"



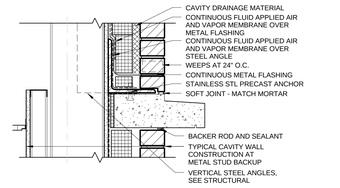
C14 LS1 AT TYP GABLE END WALL
1 1/2" = 1'-0"



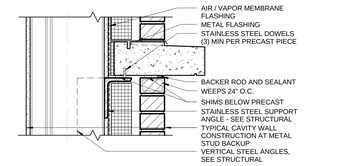
E10 PRECAST CONCRETE SILL AT BRIDGE LOUNGE
1 1/2" = 1'-0"



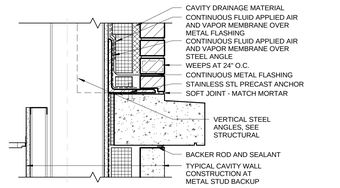
E14 WSB3 AT TYP GABLE END WALL
1 1/2" = 1'-0"



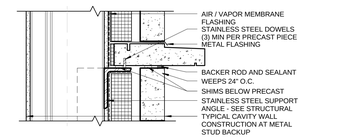
G14 WHB2 AT TYP GABLE END WALL
1 1/2" = 1'-0"



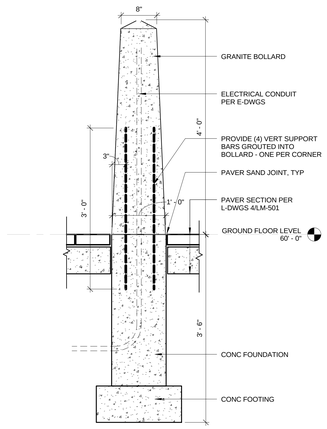
H14 WSB2 AT TYP GABLE END WALL
1 1/2" = 1'-0"



K14 WHB1 AT TYP GABLE END WALL
1 1/2" = 1'-0"



L14 WSB1 AT TYP GABLE END WALL
1 1/2" = 1'-0"



M11 GRANITE BOLLARD DETAIL
1" = 1'-0"

drawing title
WALL SECTION DETAILS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING by
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

volume 1 of 2
date 11-21-2012
scale As indicated
drawn by Author
approved by Checker
number A512

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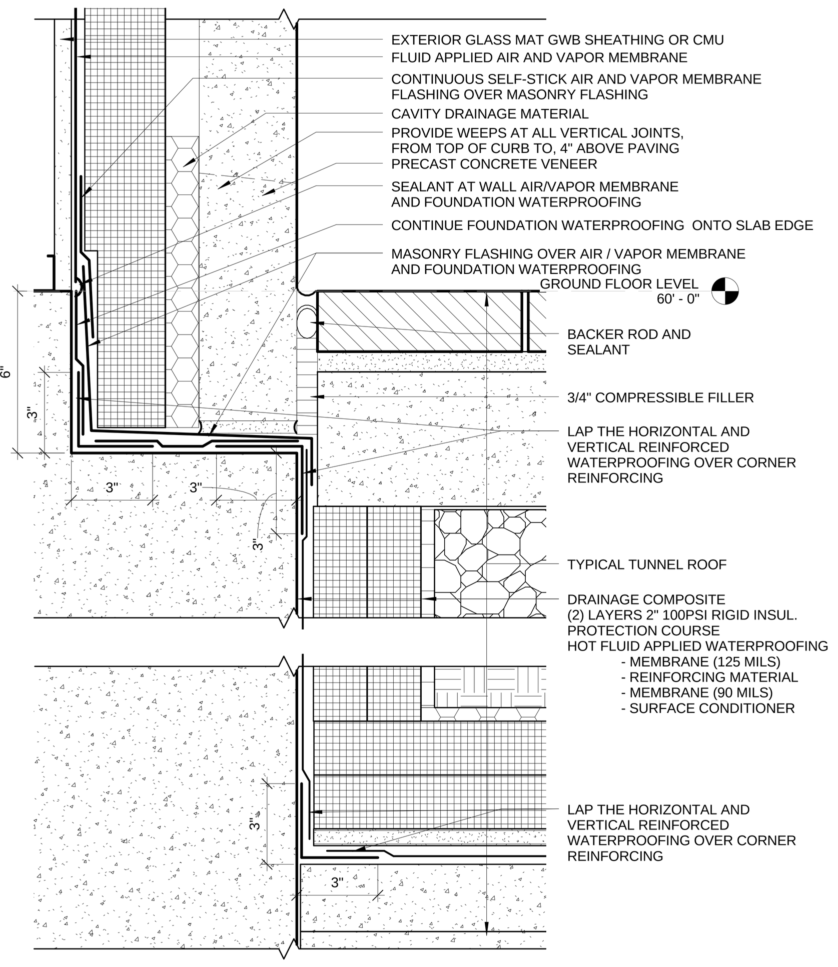
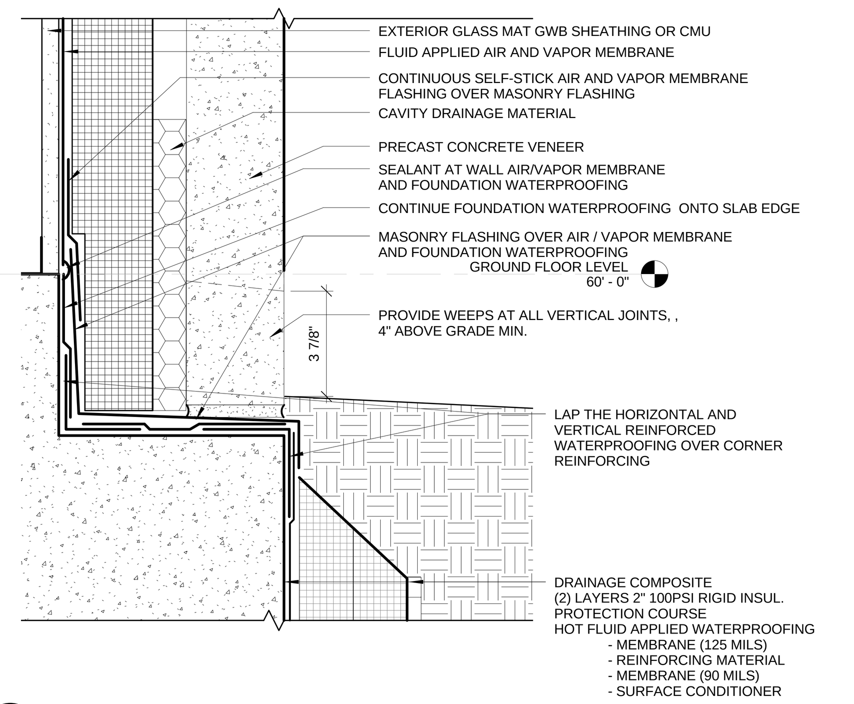
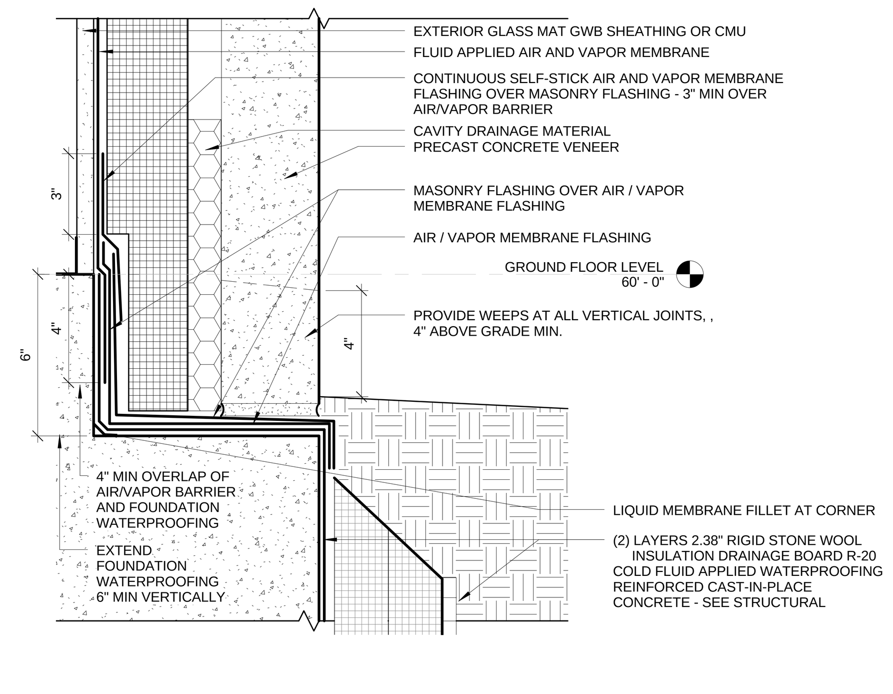


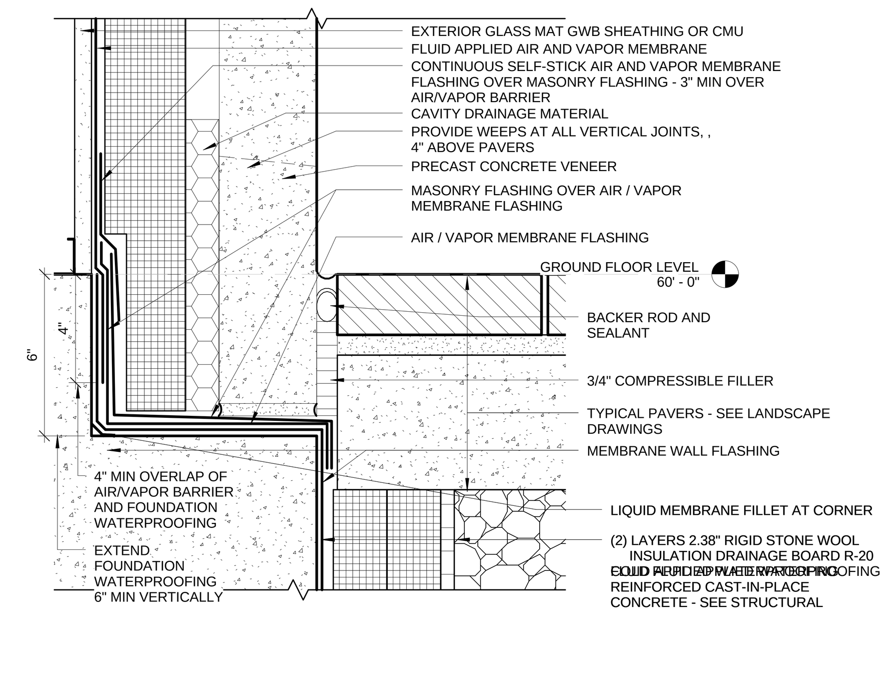
D1 WATERPROOFING AT PRECAST CONCRETE PANELS AND PAVERS OVER TUNNEL
3" = 1'-0"



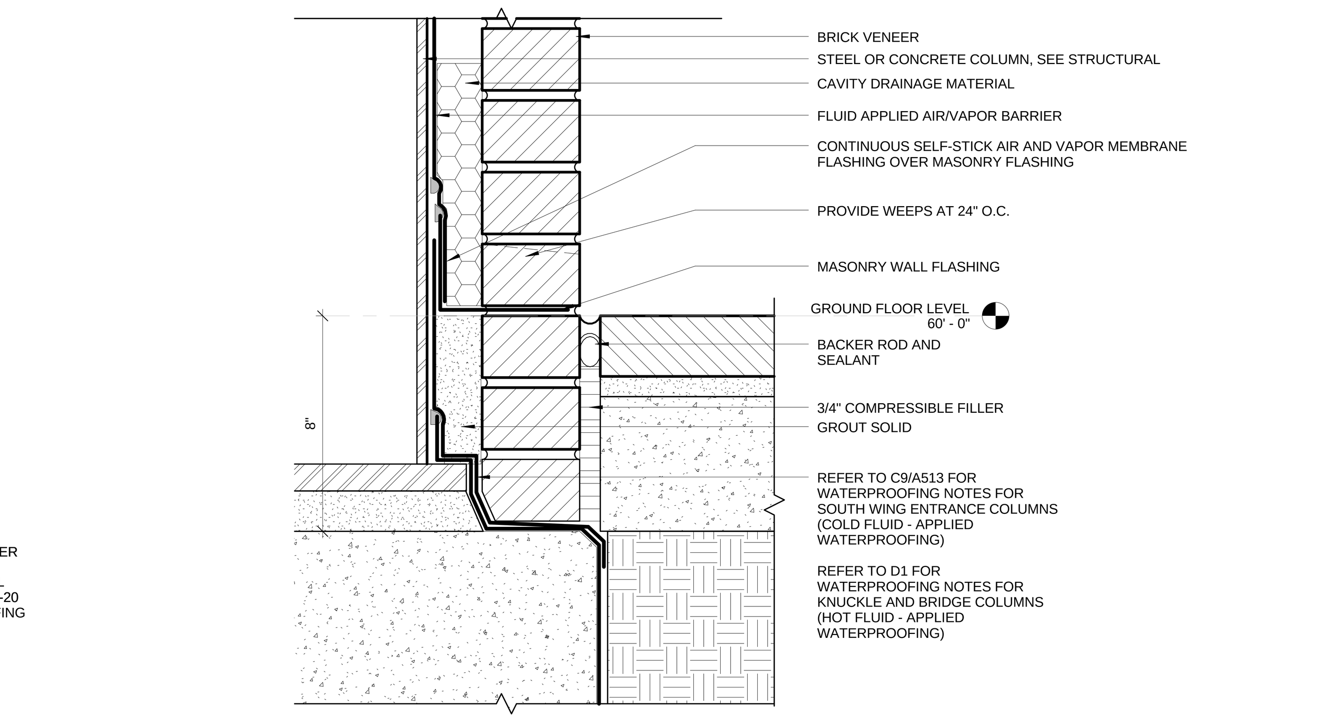
C3 WATERPROOFING AT PRECAST CONCRETE PANELS AND GRADE AT MEP LOWER LEVEL
3" = 1'-0"



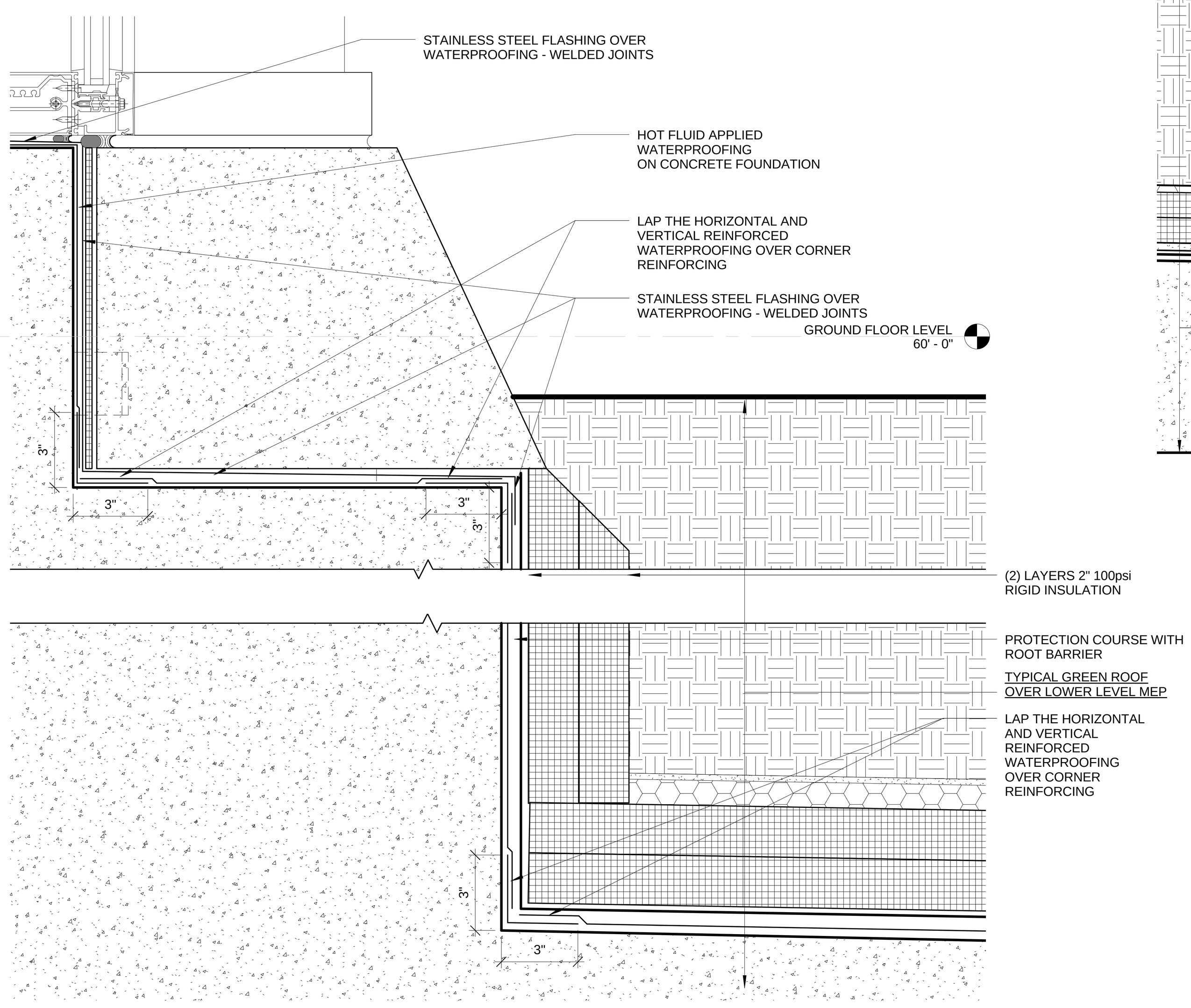
C6 WATERPROOFING AT PRECAST CONCRETE PANELS AND GRADE - TYPICAL
3" = 1'-0"



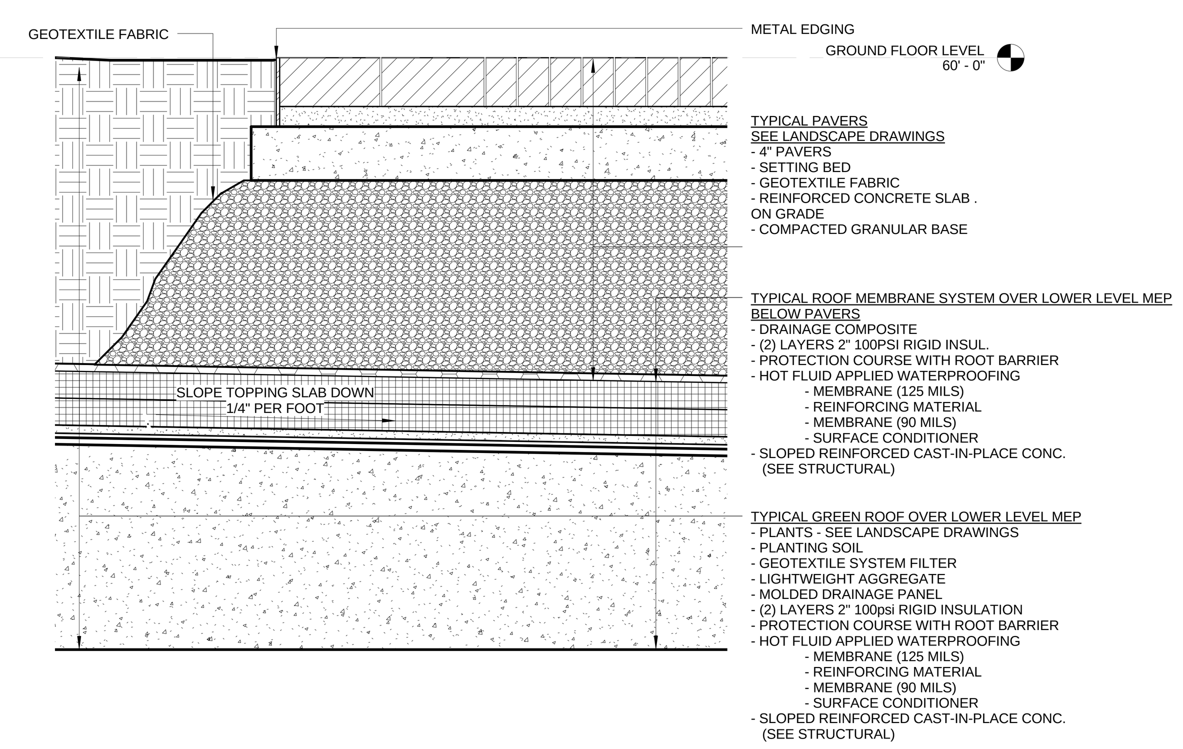
C9 WATERPROOFING AT PRECAST CONCRETE PANELS TO PAVERS - TYPICAL
3" = 1'-0"



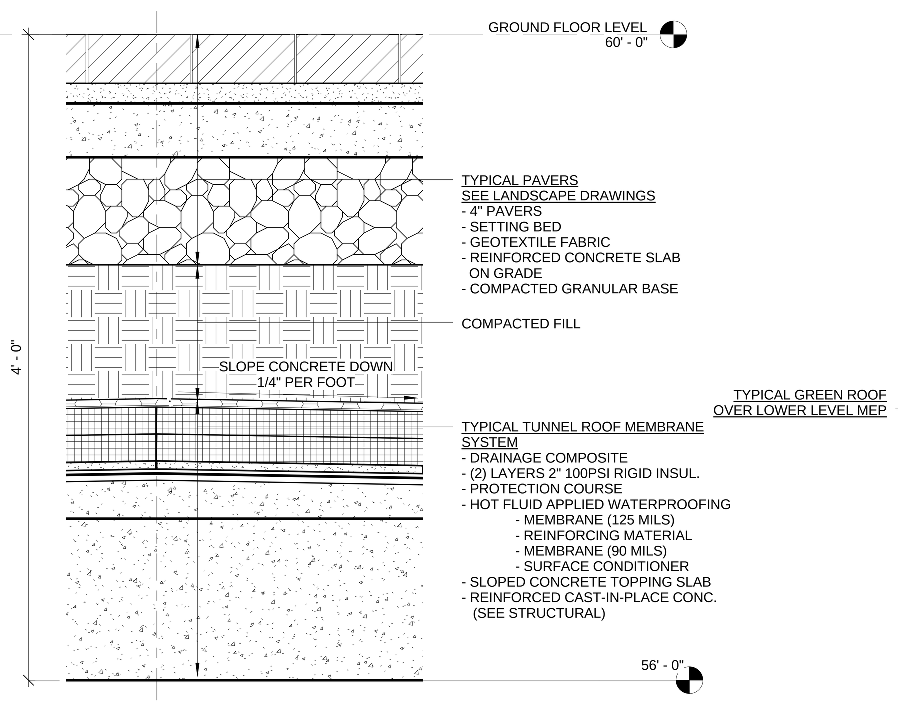
C11 SECTION AT TYPICAL BRICK COLUMN BASE
3" = 1'-0"



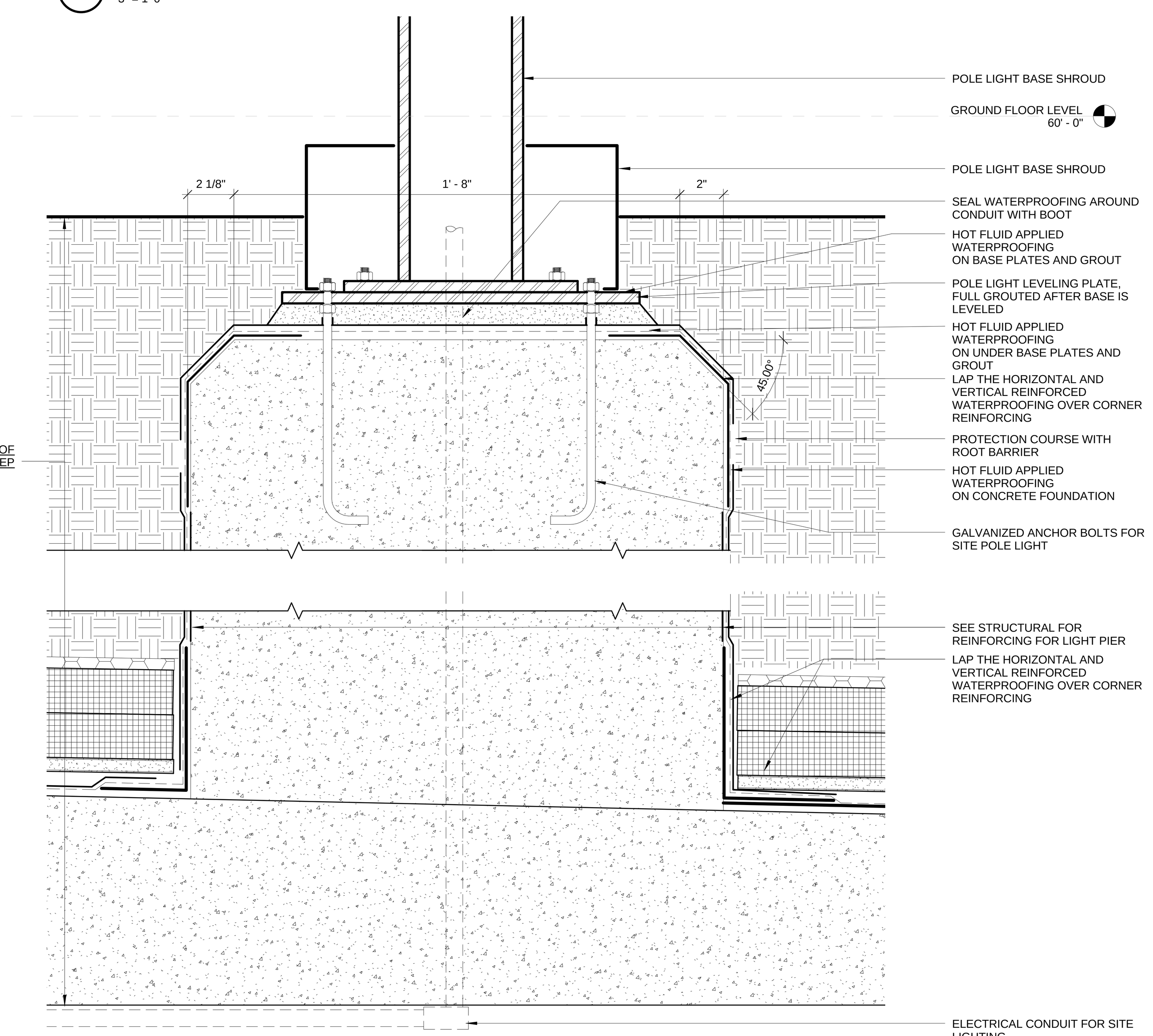
H1 WATERPROOFING DETAIL AT PRECAST SILL
3" = 1'-0"



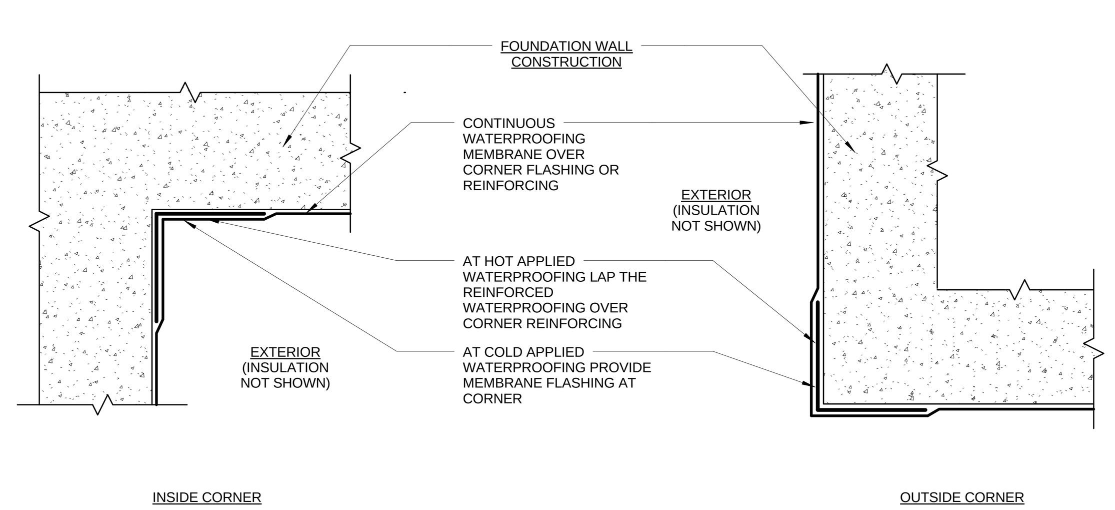
F5 TYPICAL GREEN ROOF OVER MEP LOWER LEVEL
1 1/2" = 1'-0"



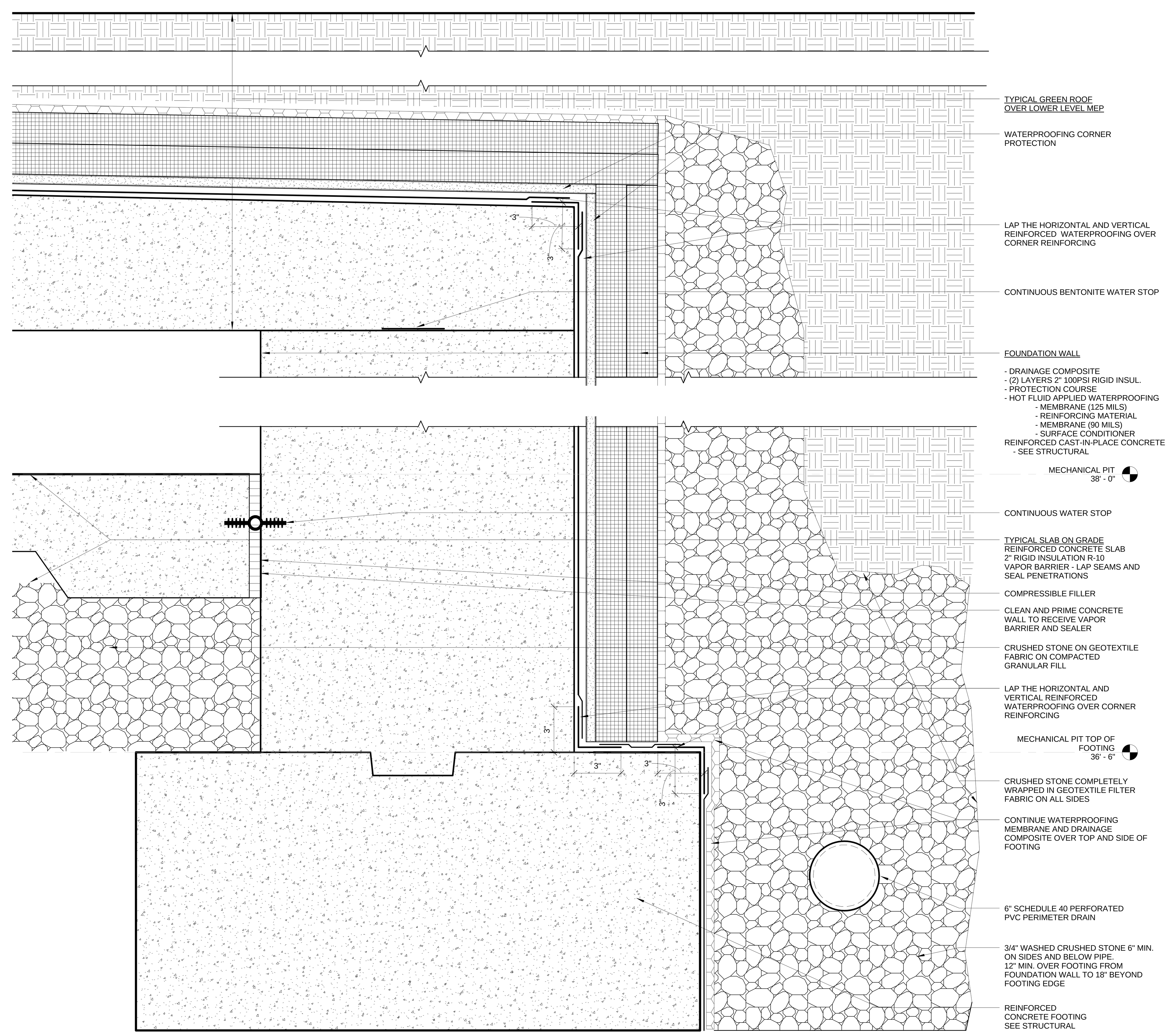
F8 TYPICAL TUNNEL ROOF DETAIL
1 1/2" = 1'-0"



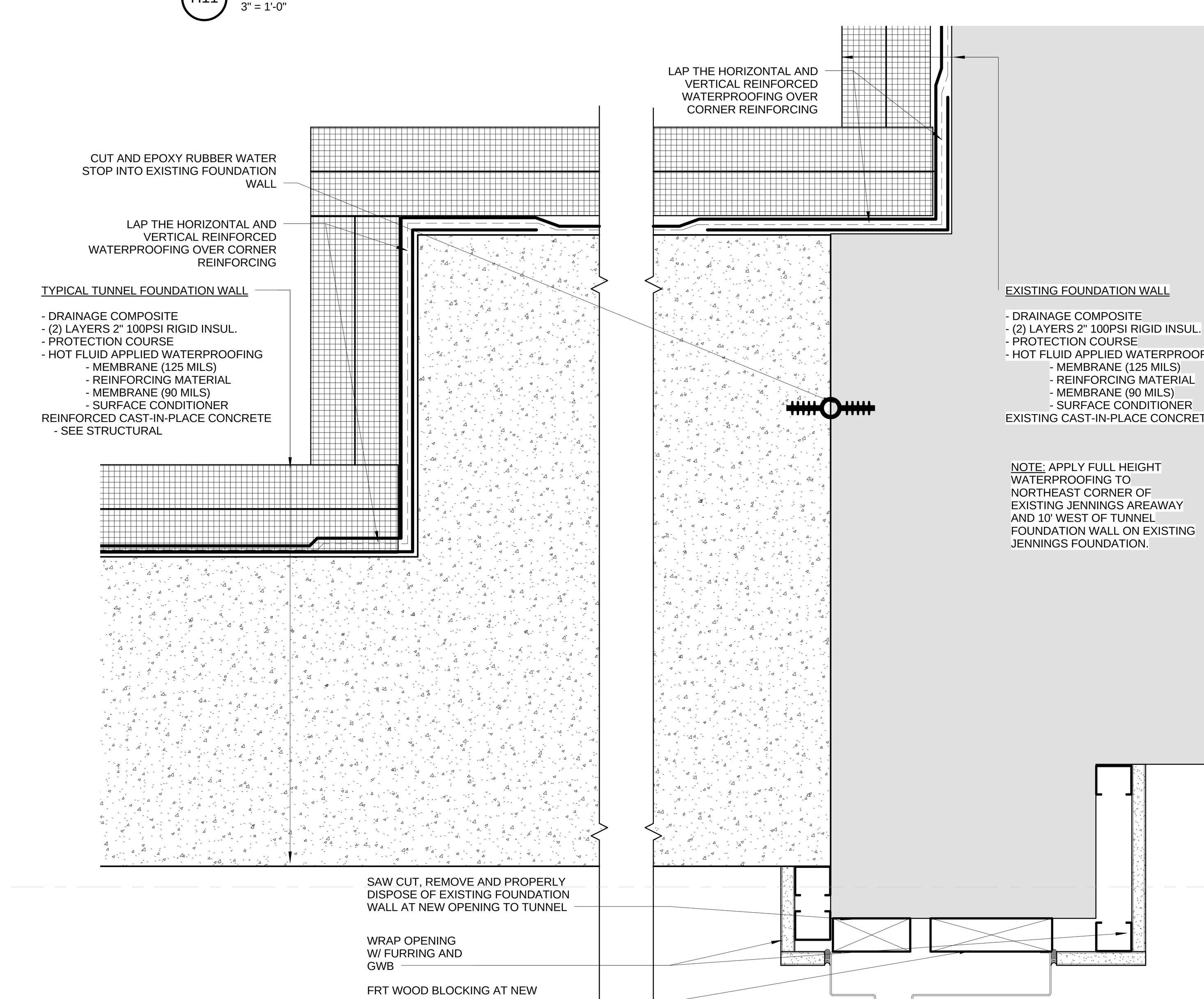
H11 WATERPROOFING DETAIL AT REINFORCED CONCRETE POLE LIGHT SUPPORT ATTACHED TO GREEN ROOF STRUCTURE
3" = 1'-0"



K1 TYPICAL WATERPROOFING INSIDE AND OUTSIDE CORNER DETAIL
3" = 1'-0"



M5 WATERPROOFING DETAIL AT GREEN ROOF EDGE CONDITION AND TYPICAL FOOTING
3" = 1'-0"



L11 WATERPROOFING DETAILS AT TUNNEL TO JENNINGS - PLAN DETAIL
3" = 1'-0"

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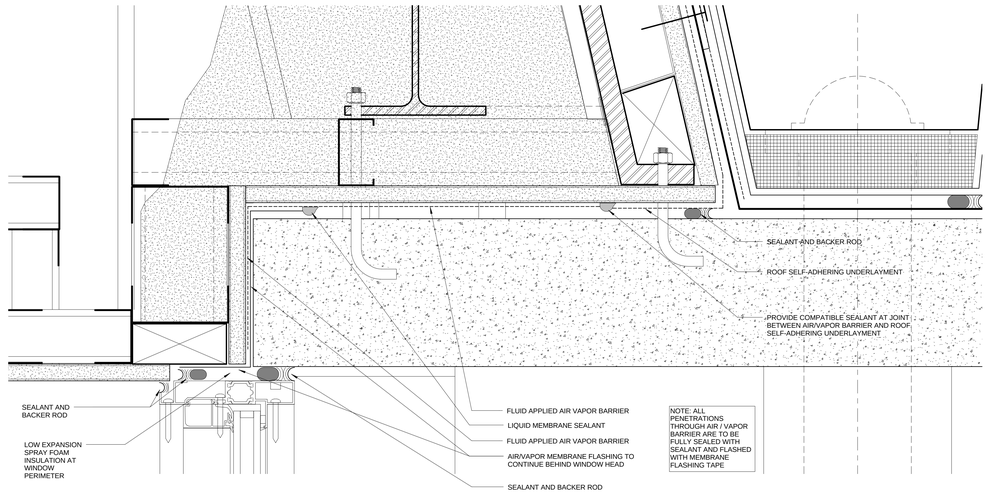
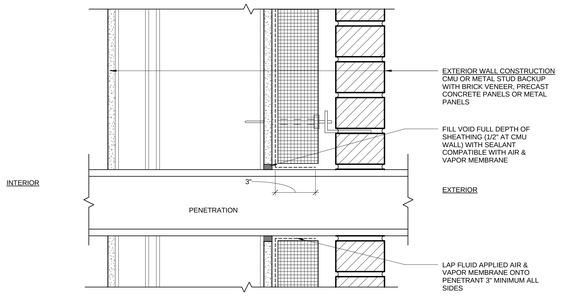
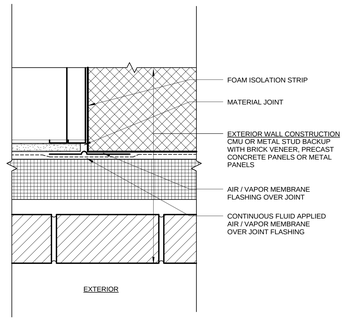
drawing title: GREEN ROOF & WATERPROOFING DETAILS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES	volume: 1 of 2
REVISIONS — mark / date / description: 11-21-2012 Bid Documents	DRAWING PREPARED BY: Centerbrook Architects and Planners, LLP 67 Main Street Post Office Box 955 Centerbrook, Connecticut 06409-0955	date: 11-21-2012 scale: As indicated
	project: SCSU NEW ACADEMIC LABORATORY BUILDING	drawn by: TCT approved by: RM/JBR
	CAD no. 1393 / project no. BI-RS-283	drawing no. A513



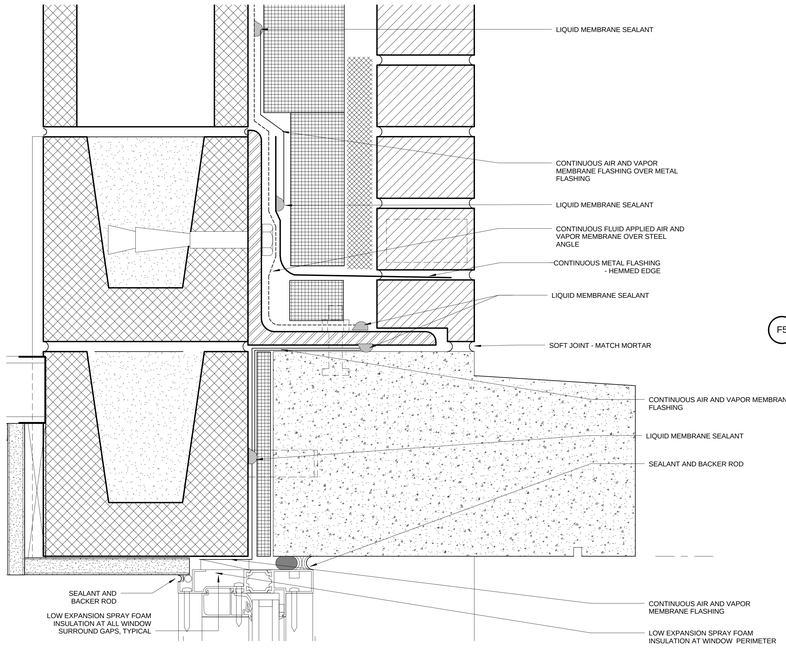
D1 TYPICAL AIR AND VAPOR BARRIER AT ALUMINUM WINDOW HEAD DETAIL - 3RD FLOOR
6" = 1'-0"



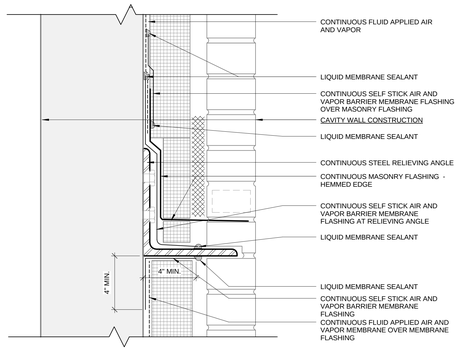
D7 TYPICAL AIR / VAPOR BARRIER WALL PENETRATION DETAIL
3" = 1'-0"



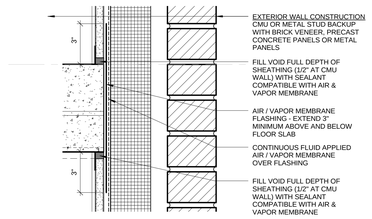
D12 TYPICAL AIR / VAPOR MATERIAL JOINT DETAIL
3" = 1'-0"



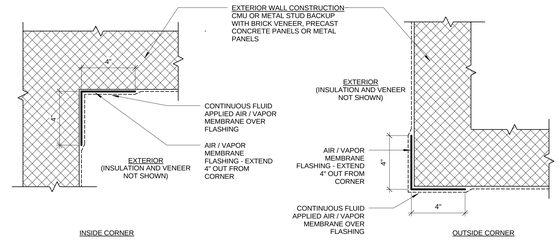
J1 TYPICAL AIR AND VAPOR BARRIER AT ALUMINUM WINDOW HEAD DETAIL
6" = 1'-0"



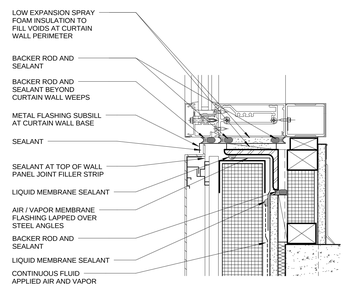
F5 TYPICAL VAPOR BARRIER AT RELIEVING ANGLE
3" = 1'-0"



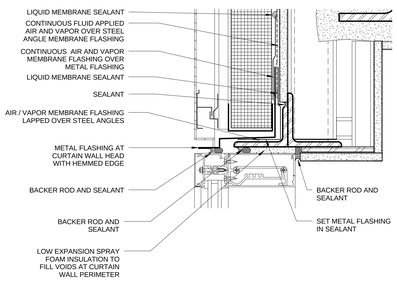
F7 TYPICAL AIR / VAPOR BARRIER AT FLOOR TRANSISTIONS
3" = 1'-0"



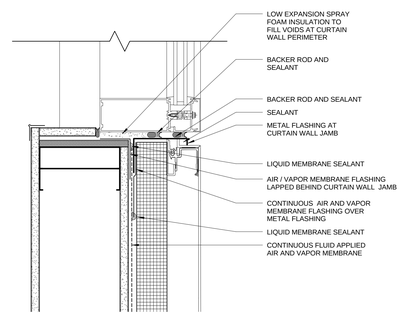
F12 TYPICAL AIR / VAPOR BARRIER INSIDE AND OUTSIDE CORNER DETAIL
3" = 1'-0"



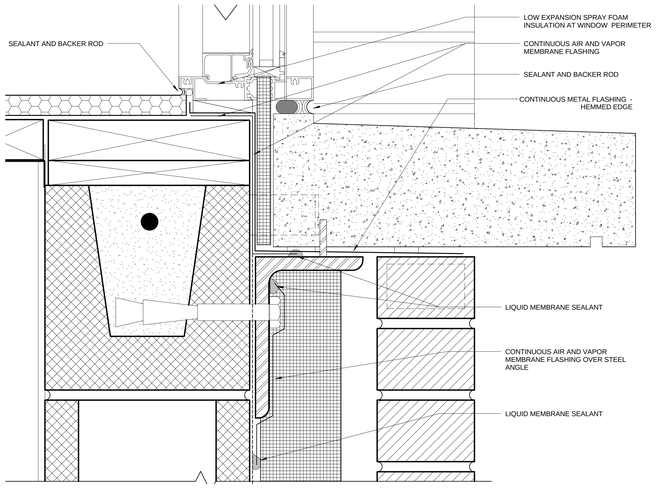
J5 TYPICAL AIR VAPOR BARRIER AT CURTAINWALL SILL AND METAL PANEL
3" = 1'-0"



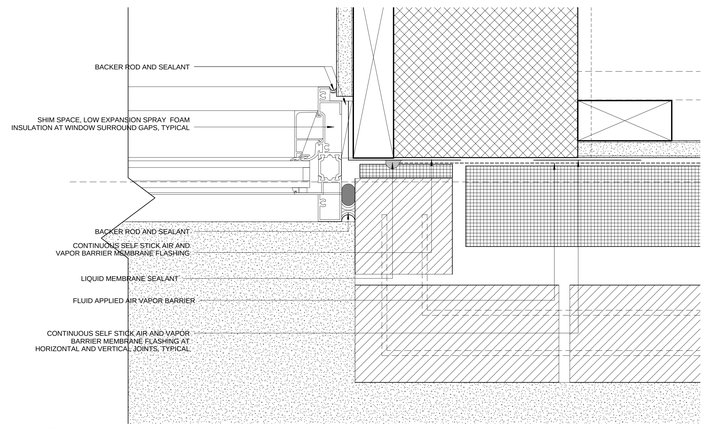
J10 TYPICAL AIR VAPOR BARRIER AT CURTAINWALL HEAD AND METAL PANEL
3" = 1'-0"



J13 TYPICAL AIR VAPOR BARRIER AT CURTAINWALL WINDOW AND METAL PANEL
3" = 1'-0"



M1 TYPICAL AIR AND VAPOR BARRIER AT ALUMINUM WINDOW SILL DETAIL
6" = 1'-0"



M5 TYPICAL AIR AND VAPOR BARRIER AT ALUMINUM WINDOW JAMB
6" = 1'-0"

DRAWING TITLE
AIR AND VAPOR BARRIER DETAILS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

sheet no. 1 of 2
date 11-21-2012
scale As indicated
drawn by TCT
checked RMUBR
drawing no. A514

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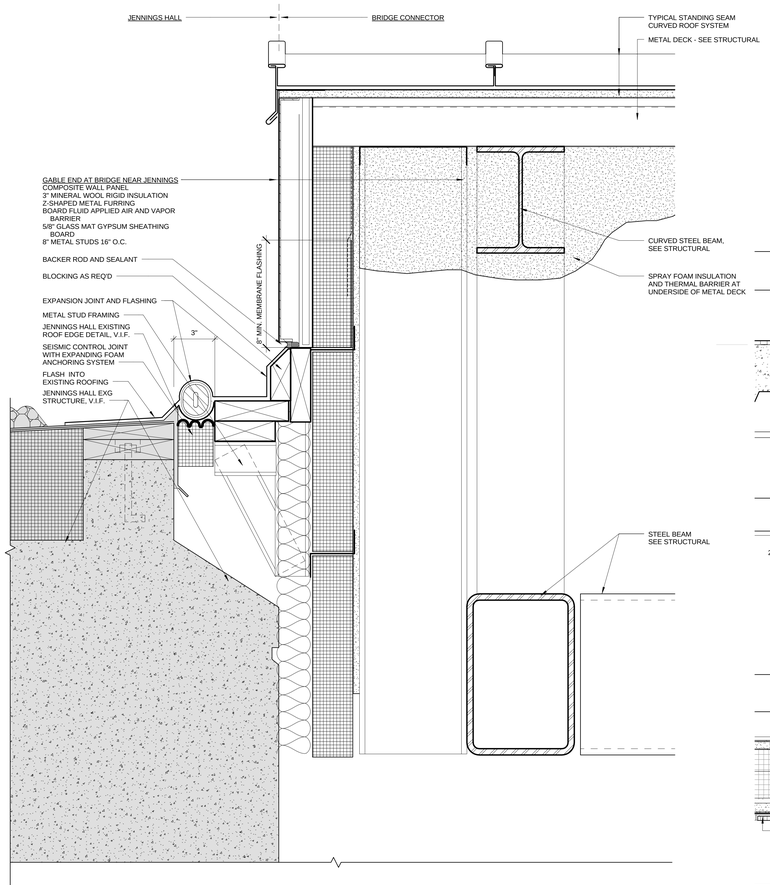
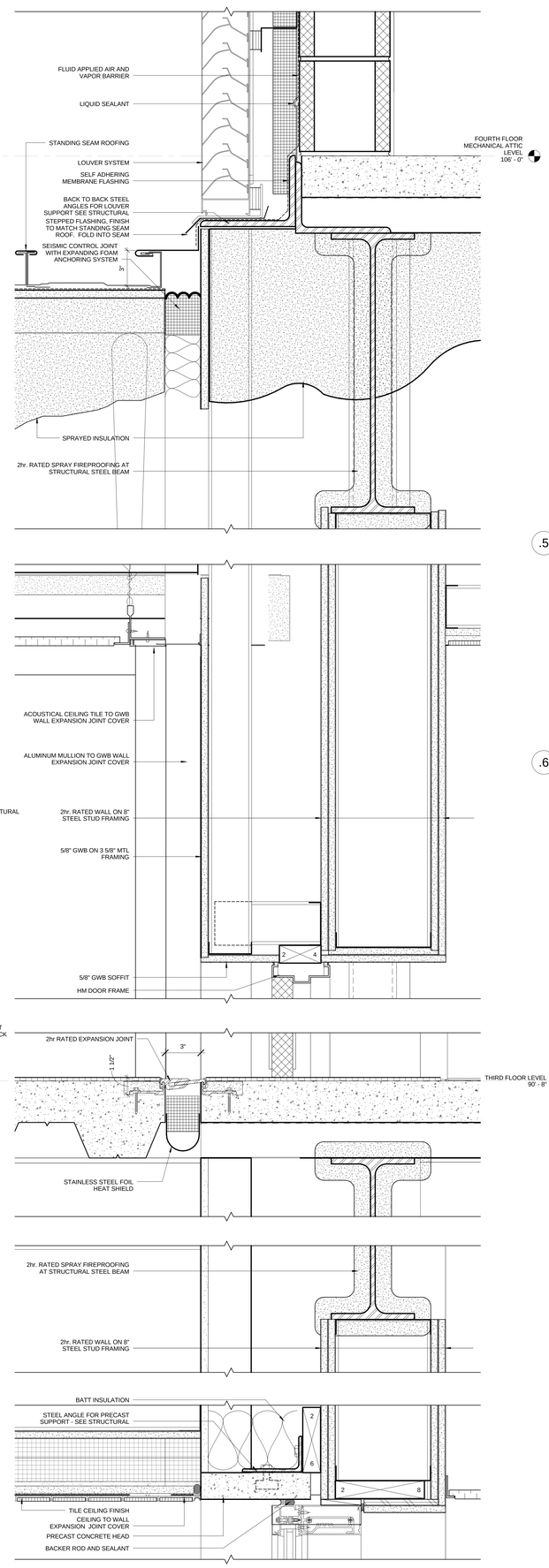
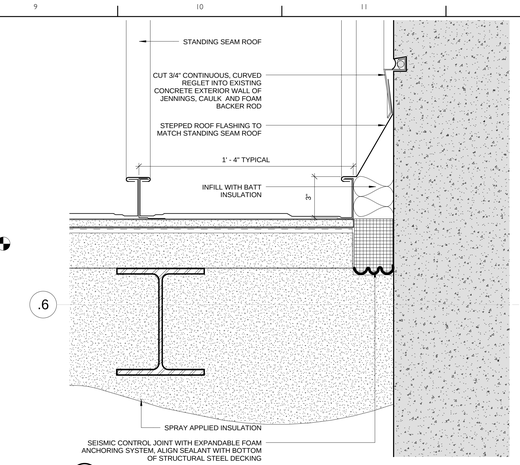


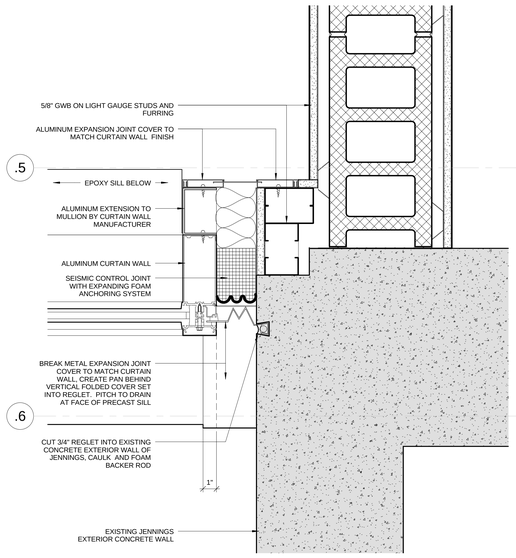
M1 ROOF EDGE DETAIL AT BRIDGE AND JENNINGS ROOF
3" = 1'-0"



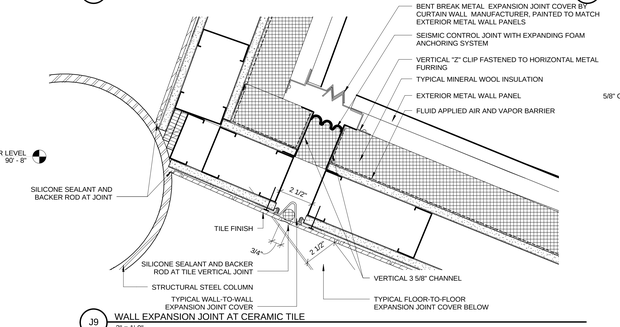
M6 BRIDGE CONNECTION TO NORTH WING AT THIRD FLOOR LEVEL
3" = 1'-0"



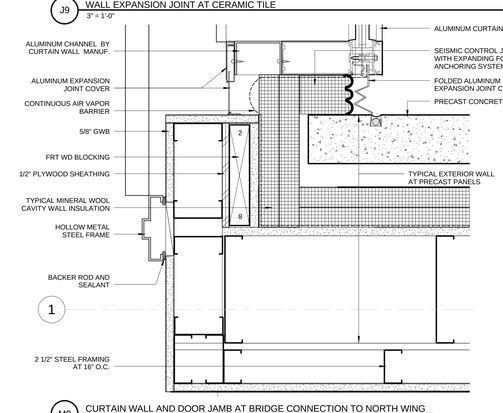
C9 STANDING SEAM ROOF TO CONCRETE WALL EXPANSION JOINT COVER
3" = 1'-0"



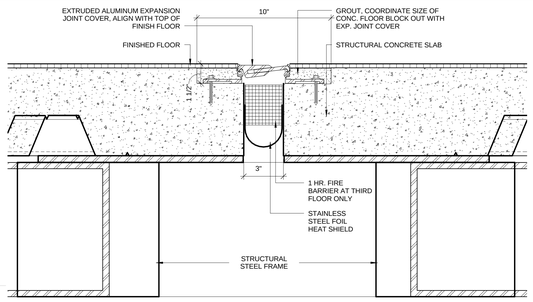
G9 CURTAINWALL TO CONCRETE WALL EXPANSION JOINT COVER
3" = 1'-0"



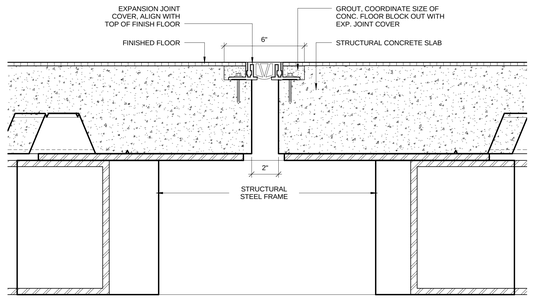
J9 WALL EXPANSION JOINT AT CERAMIC TILE
3" = 1'-0"



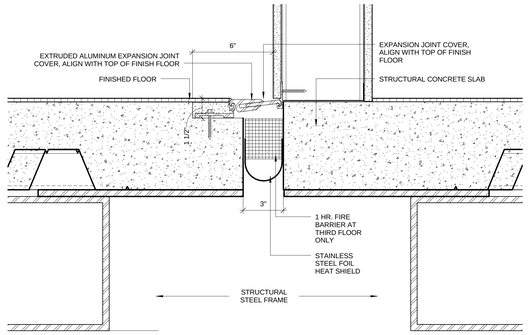
M9 CURTAIN WALL AND DOOR JAMB AT BRIDGE CONNECTION TO NORTH WING
3" = 1'-0"



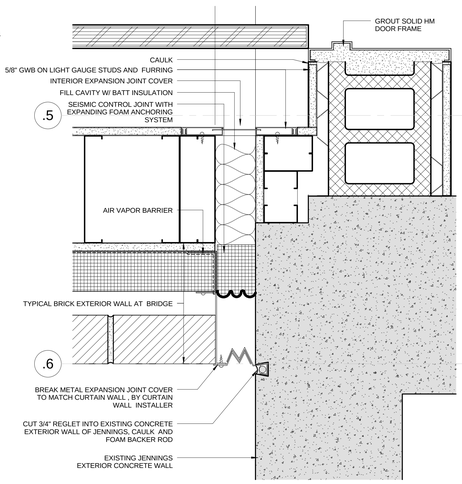
B12 1 Hr. RATED SEISMIC JOINT AT FLOOR
3" = 1'-0"



D12 SEISMIC JOINT AT FLOOR
3" = 1'-0"



G12 SEISMIC JOINT AT FLOOR TO WALL
3" = 1'-0"



L12 BRICK TO CONCRETE WALL EXPANSION JOINT COVER
3" = 1'-0"

drawing title
SEISMIC AND EXPANSION JOINT DETAILS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

sheet no. 1 of 2
date 11-21-2012
scale 3" = 1'-0"
drawn by AS/TCT
reviewed by RMJ/BR
drawing no. A520

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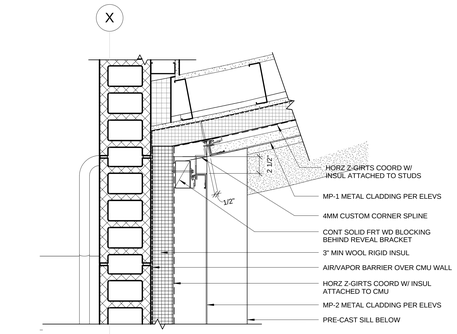
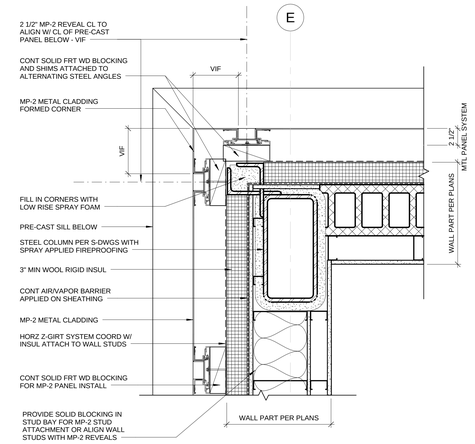
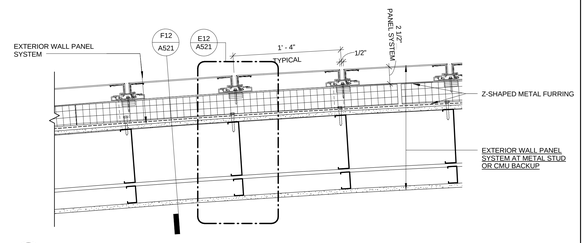


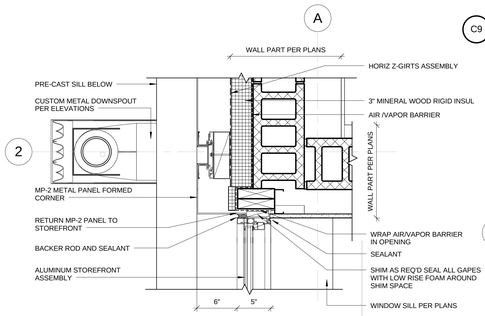
C6 THIRD LEVEL INSIDE CORNER MP-1 AND MP-2 - PLAN DETAIL
1 1/2" = 1'-0"



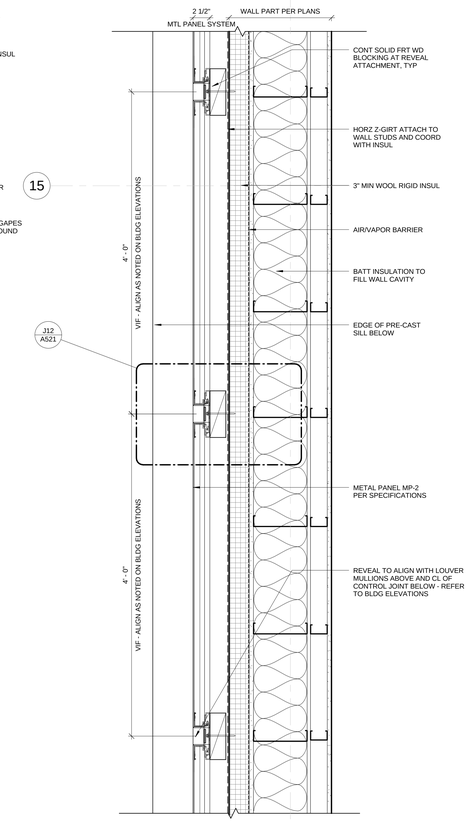
C9 PLAN DETAIL - THIRD LEVEL MP-2 METAL CLADDING EAST CORNER (SOUTH SIM)
1 1/2" = 1'-0"



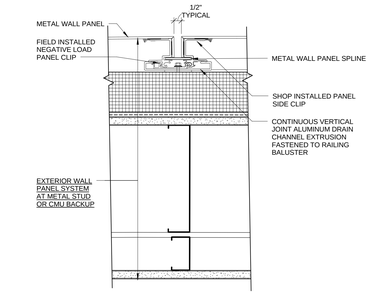
B12 WALL PANEL SYSTEM AT VERTICAL JOINT - PLAN DETAIL
1 1/2" = 1'-0"



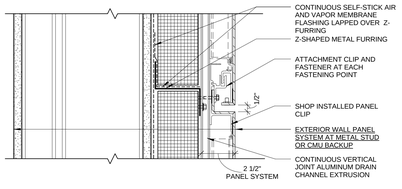
F6 THIRD LEVEL MP-2 METAL CLADDING AT A/2 STAIR CORNER - PLAN DETAIL
1 1/2" = 1'-0"



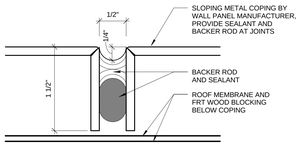
J9 PLAN DETAIL - THIRD LEVEL MP-2 METAL CLADDING WITH 2 1/2" REVEALS
1 1/2" = 1'-0"



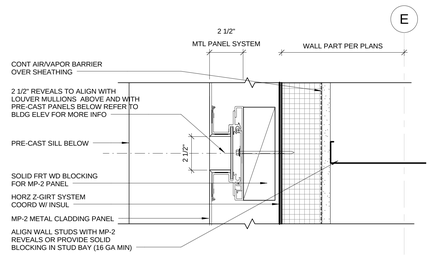
E12 WALL PANEL VERTICAL JOINT - PLAN DETAIL
3" = 1'-0"



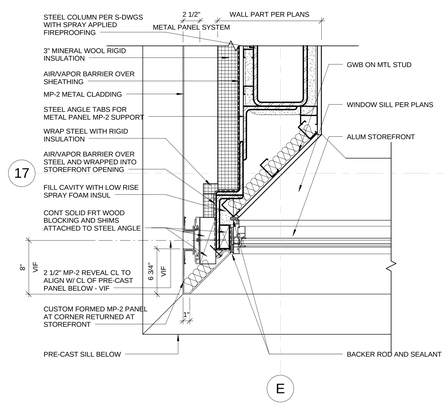
F12 WALL PANEL HORIZONTAL JOINT - SECTION DETAIL
3" = 1'-0"



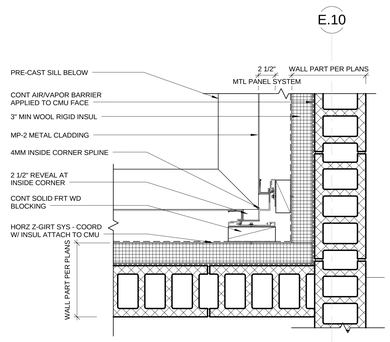
G6 WALL PANEL SYSTEM TYPICAL COPING JOINT DETAIL
12" = 1'-0"



J12 ENLARGED MP-2 2 1/2" REVEAL DETAIL - PLAN DETAIL
3" = 1'-0"



M9 PLAN DETAIL - THIRD LEVEL MP-2 METAL CLADDING WEST CORNER (NORTH SIM)
1 1/2" = 1'-0"



L12 THIRD LEVEL MP-2 METAL CLADDING INSIDE CORNER - PLAN DETAIL
1 1/2" = 1'-0"

drawing title: METAL CLADDING DETAILS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		volume 1 of 2
REVISIONS			date 11-21-2012
mark / date / description	DRAWING		scale As indicated
11-21-2012 Bid Documents	Centerbrook Architects and Planners, LLP, 67 Main Street, Post Office Box 955, Centerbrook, Connecticut 06409-0955		drawn by Author
	project SCSU NEW ACADEMIC LABORATORY BUILDING		approved by Checker
	CAD 1393	project no. BI-RS-283	drawing no. A521

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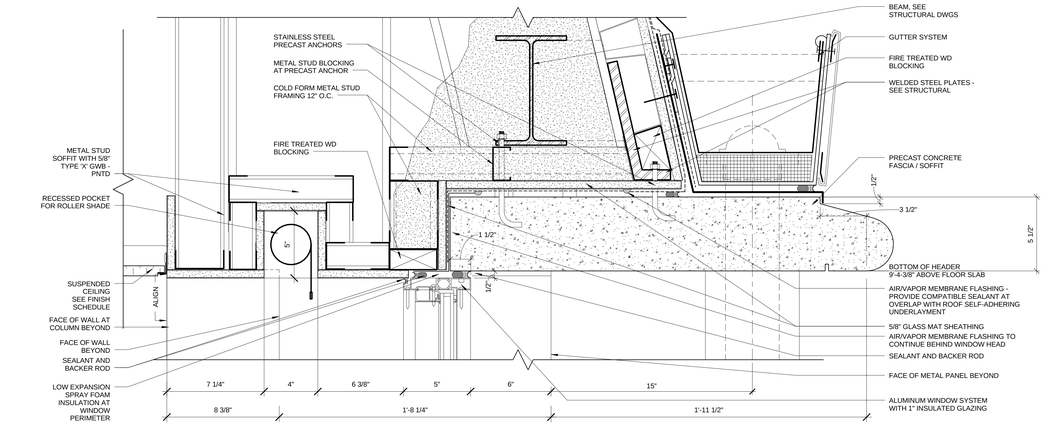
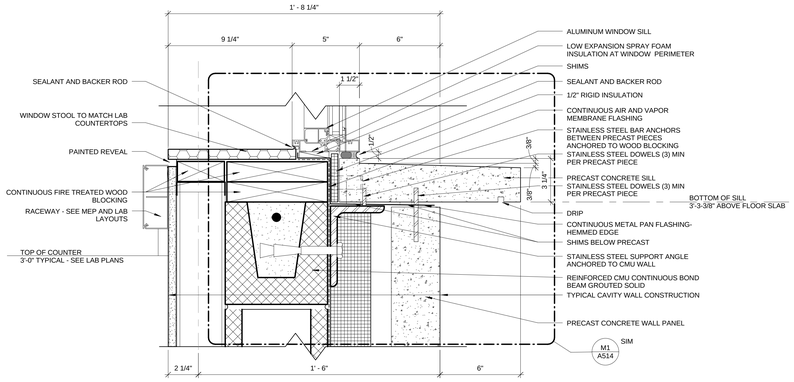
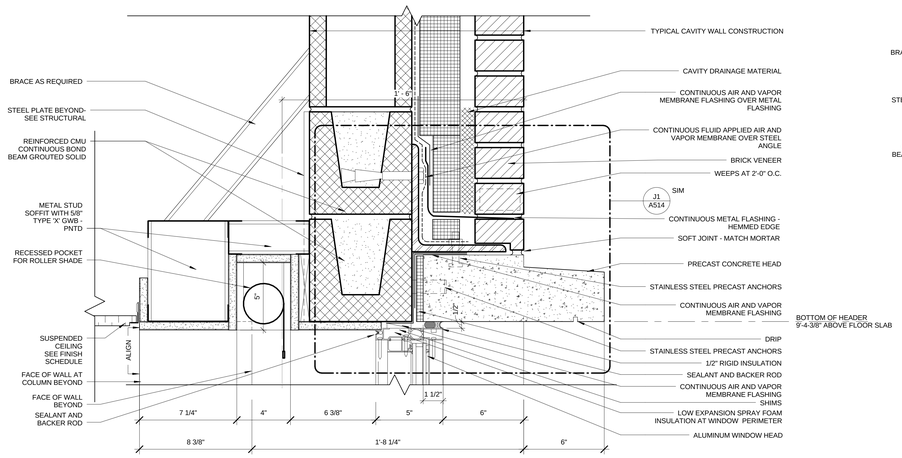


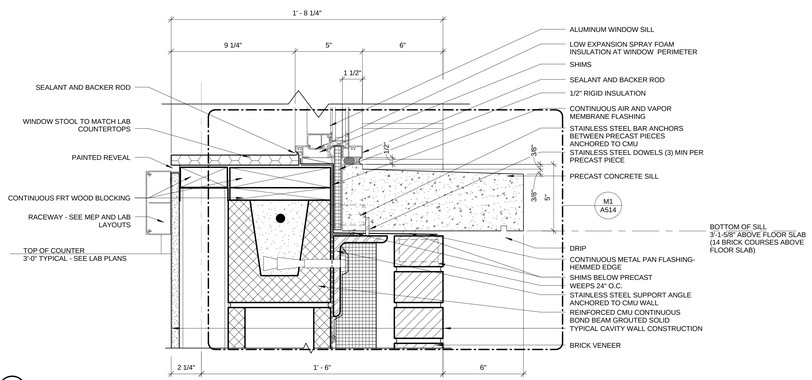
D1 ALUMINUM WINDOW HEAD DETAIL - 3RD FLOOR
3" = 1'-0"



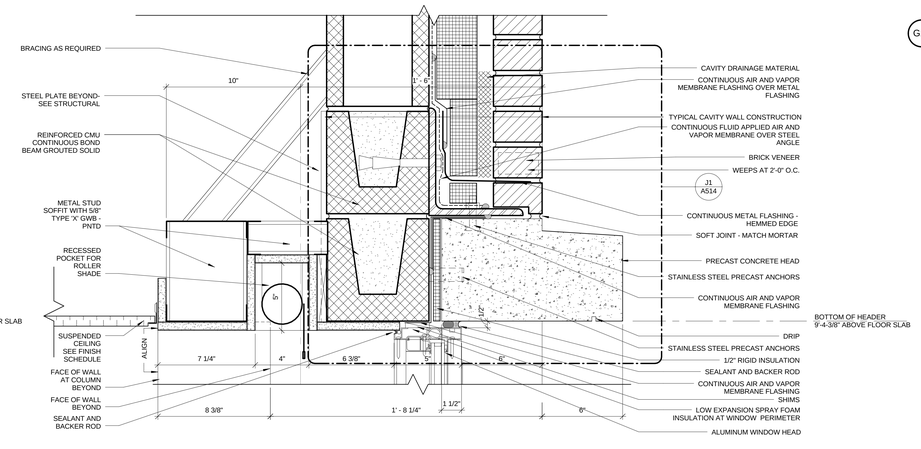
G1 ALUMINUM WINDOW SILL DETAIL - 3RD FLOOR
3" = 1'-0"



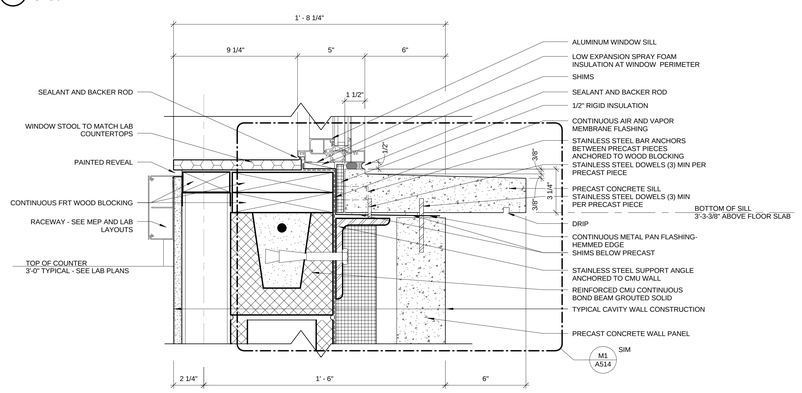
K1 ALUMINUM WINDOW HEAD DETAIL - 2ND FLOOR
3" = 1'-0"



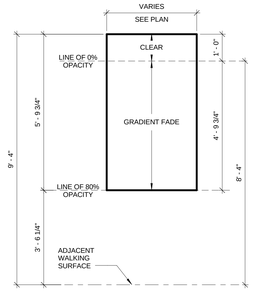
M1 ALUMINUM WINDOW SILL DETAIL - 2ND FLOOR
3" = 1'-0"



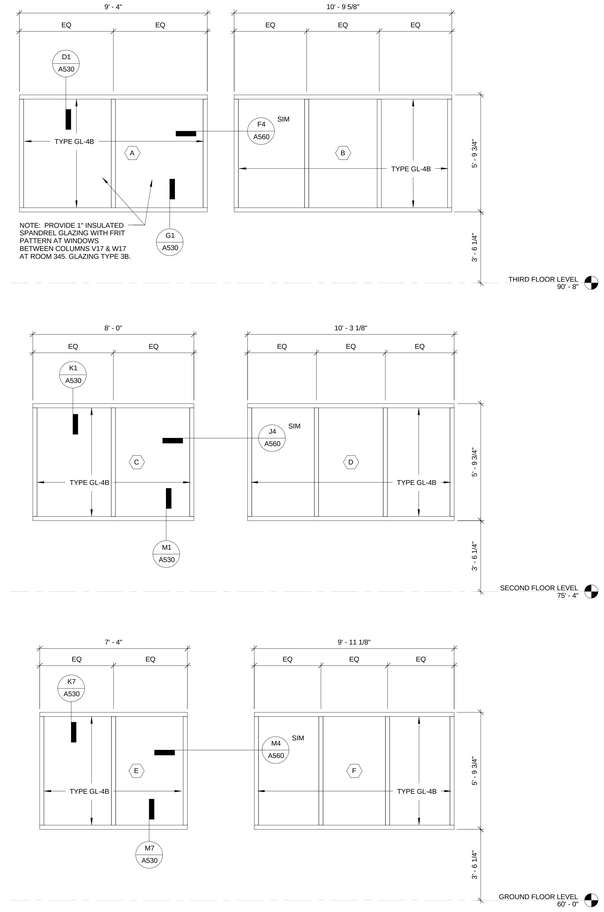
K7 ALUMINUM WINDOW HEAD DETAIL - GROUND FLOOR DETAIL
3" = 1'-0"



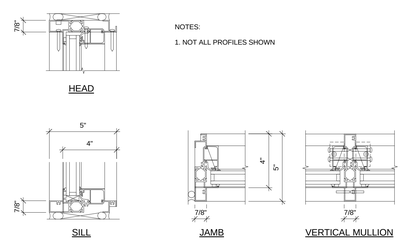
M7 ALUMINUM WINDOW SILL DETAIL - GROUND FLOOR
3" = 1'-0"



C10 GRADIENT FRIT PATTERN AT ALUMINUM WINDOWS
1/2" = 1'-0"



G12 WINDOW TYPE LEGEND
3/8" = 1'-0"



NOTES:

1. NOT ALL PROFILES SHOWN

K12 TYPICAL ALUMINUM WINDOW PROFILES
3" = 1'-0"

drawing title: WINDOW TYPES AND DETAILS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		volume: 1 of 2
REVISIONS: mark / date / description			date: 11-21-2012
11-21-2012 Bid Documents	DRAWING: Centerbrook Architects and Planners, LLP, 67 Main Street, Post Office Box 955, Centerbrook, Connecticut 06409-0955		scale: As indicated
	project: SCSU NEW ACADEMIC LABORATORY BUILDING		drawn by: AS
			approved by: RMJ/BR
	CAD file: 1393	project no.: BI-RS-283	drawing no.: A530

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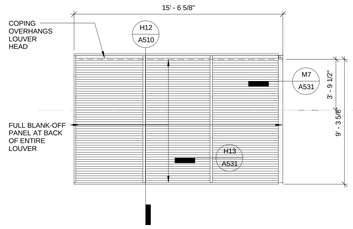
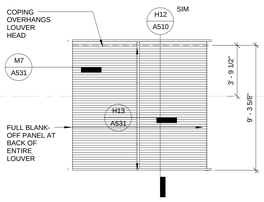
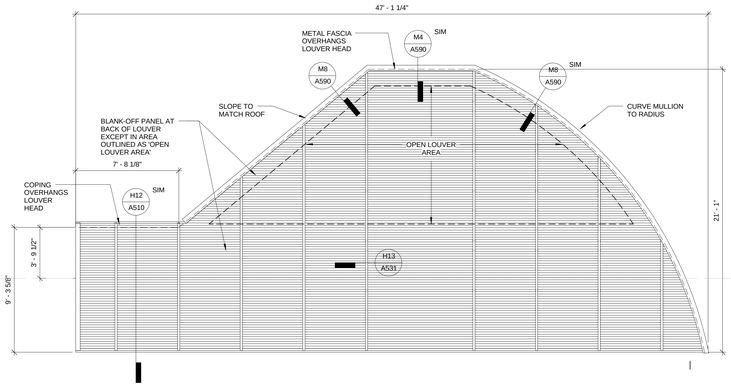


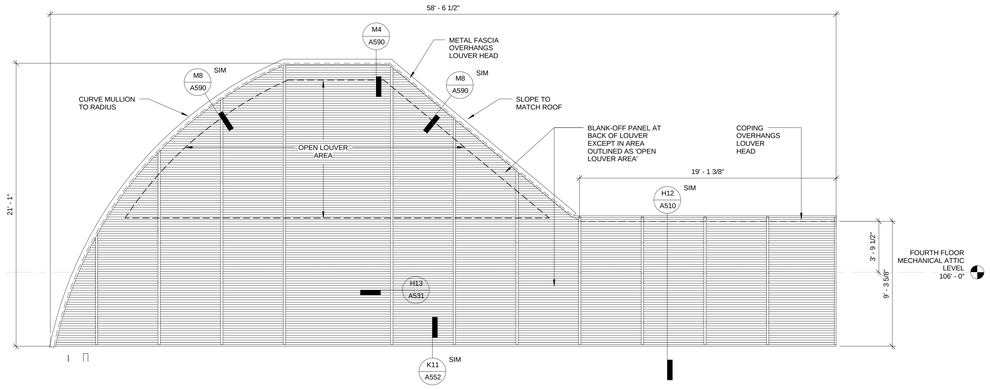
C1 LOUVER - SOUTH WING NORTH ELEVATION
1/4" = 1'-0"



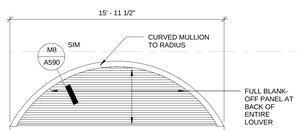
C3 LOUVER - SOUTH WING EAST ELEVATION
1/4" = 1'-0"



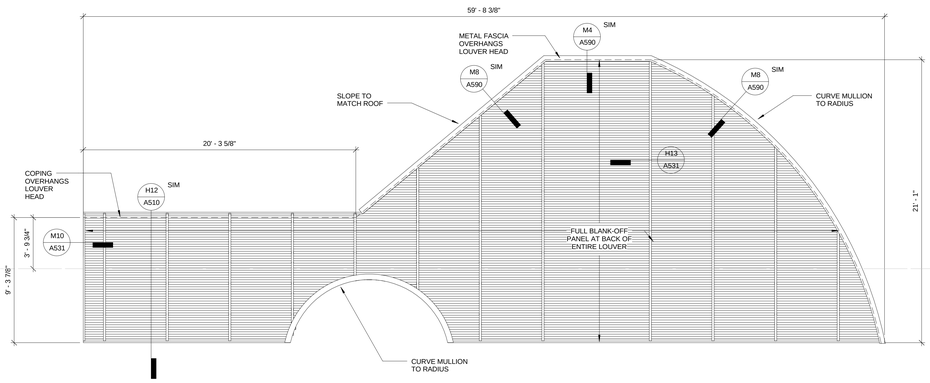
C5 LOUVER - SOUTH WING NORTH GABLE END
1/4" = 1'-0"



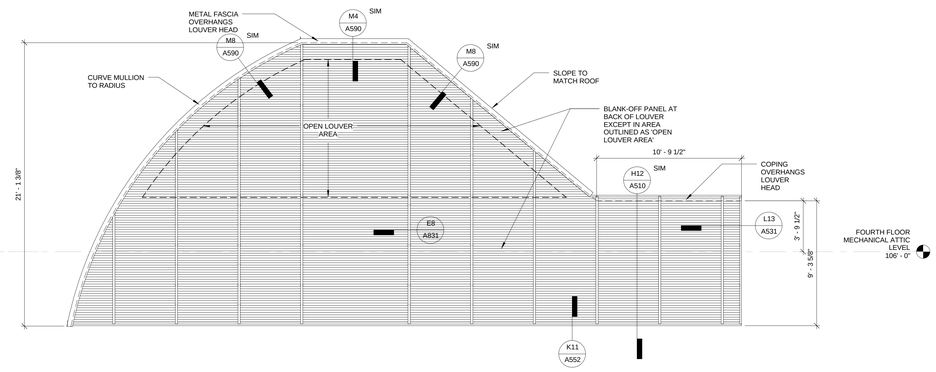
C10 LOUVER - SOUTH WING SOUTH GABLE END
1/4" = 1'-0"



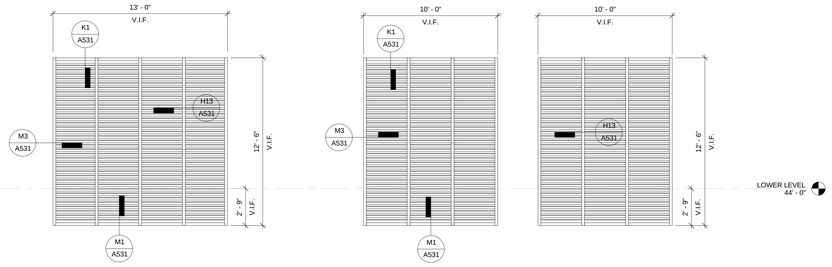
F1 LOUVER - BRIDGE
1/4" = 1'-0"



F3 LOUVER - NORTH WING EAST GABLE END
1/4" = 1'-0"

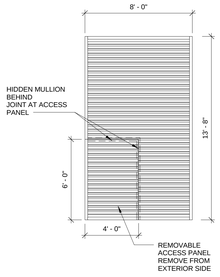


F10 LOUVER - NORTH WING WEST GABLE END
1/4" = 1'-0"

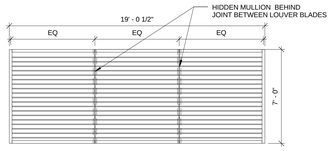


H1 LOUVER - NORTH WING AREAWAY
1/4" = 1'-0"

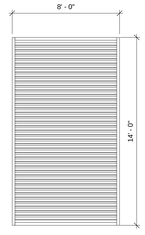
H3 LOUVER - SOUTH WING AREAWAY
1/4" = 1'-0"



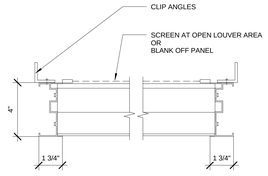
H7 LOUVER - COOLING TOWER EAST
1/4" = 1'-0"



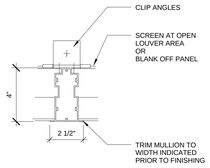
H8 LOUVER - COOLING TOWER NORTH
1/4" = 1'-0"



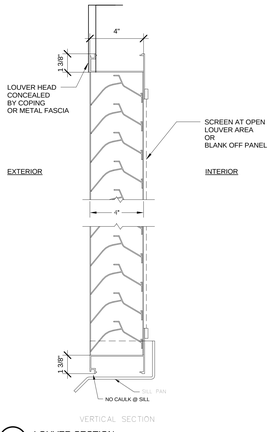
H10 LOUVER - COOLING TOWER WEST
1/4" = 1'-0"



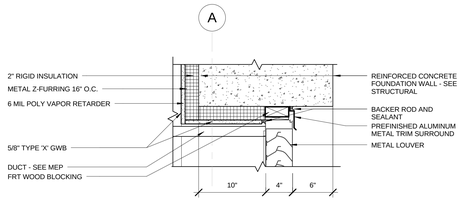
H11 LOUVER PLAN
3" = 1'-0"



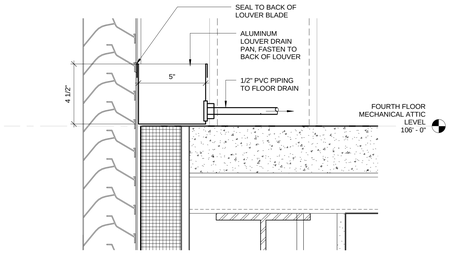
H13 LOUVER MULLION
3" = 1'-0"



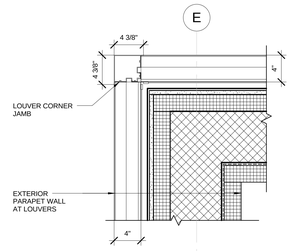
J14 LOUVER SECTION
3" = 1'-0"



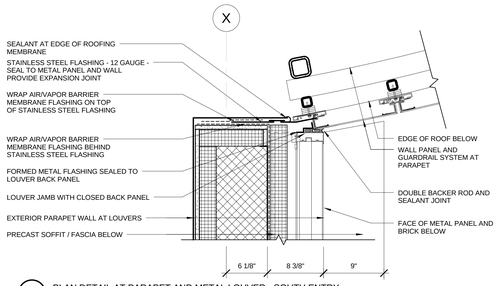
K1 LOUVER HEAD AT FOUNDATION WALL
1 1/2" = 1'-0"



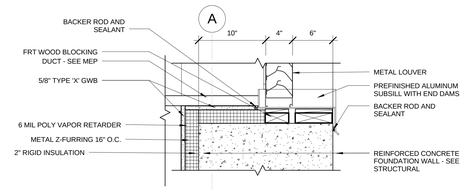
K3 LOUVER DRAIN PAN
3" = 1'-0"



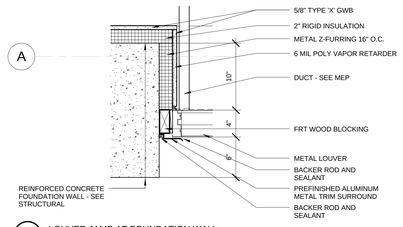
K7 PLAN DETAIL AT LOUVER OUTSIDE CORNER
1 1/2" = 1'-0"



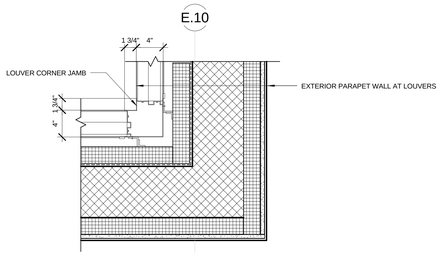
L13 PLAN DETAIL AT PARAPET AND METAL LOUVER - SOUTH ENTRY
1 1/2" = 1'-0"



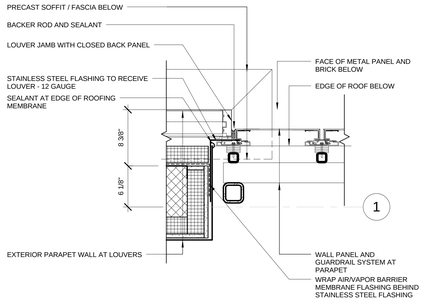
M1 LOUVER SILL AT FOUNDATION WALL
1 1/2" = 1'-0"



M3 LOUVER JAMB AT FOUNDATION WALL
1 1/2" = 1'-0"



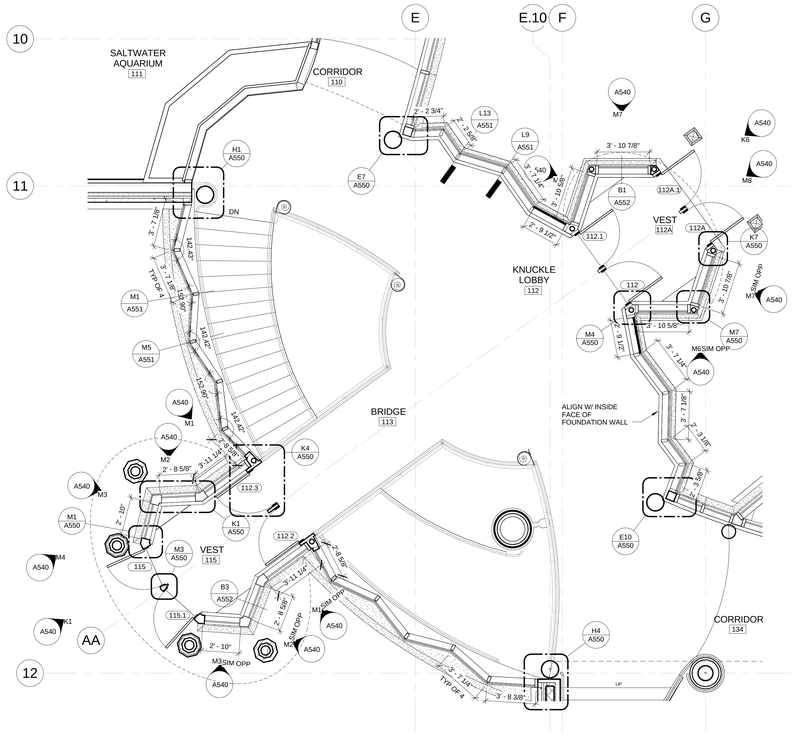
M7 PLAN DETAIL AT LOUVER INSIDE CORNER
1 1/2" = 1'-0"



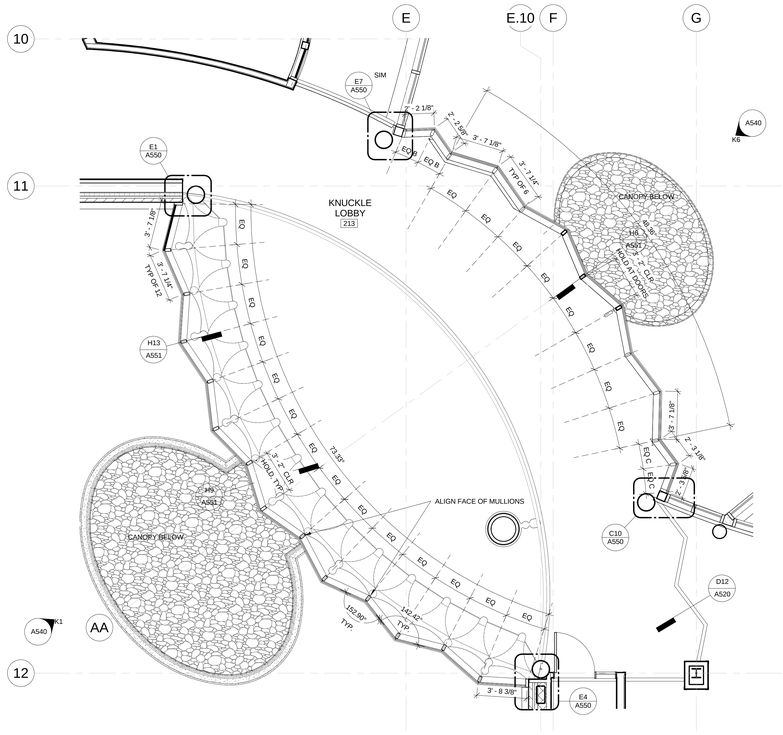
M10 PLAN DETAIL AT PARAPET AND LOUVER JAMB
1 1/2" = 1'-0"

drawing title: LOUVER TYPES & DETAILS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		volume: 1 of 2
REVISIONS mark / date / description 11-21-2012 Bid Documents	DRAWING: Centerbrook Architects and Planners, LLP 67 Main Street Post Office Box 955 Centerbrook, Connecticut 06409-0955		date: 11-21-2012 scale: As indicated
project: SCSU NEW ACADEMIC LABORATORY BUILDING			drawn by: LT/AS reviewed by: RMJ/BR
CAD file: 1393	project no.: BI-RS-283		drawing no.: A531

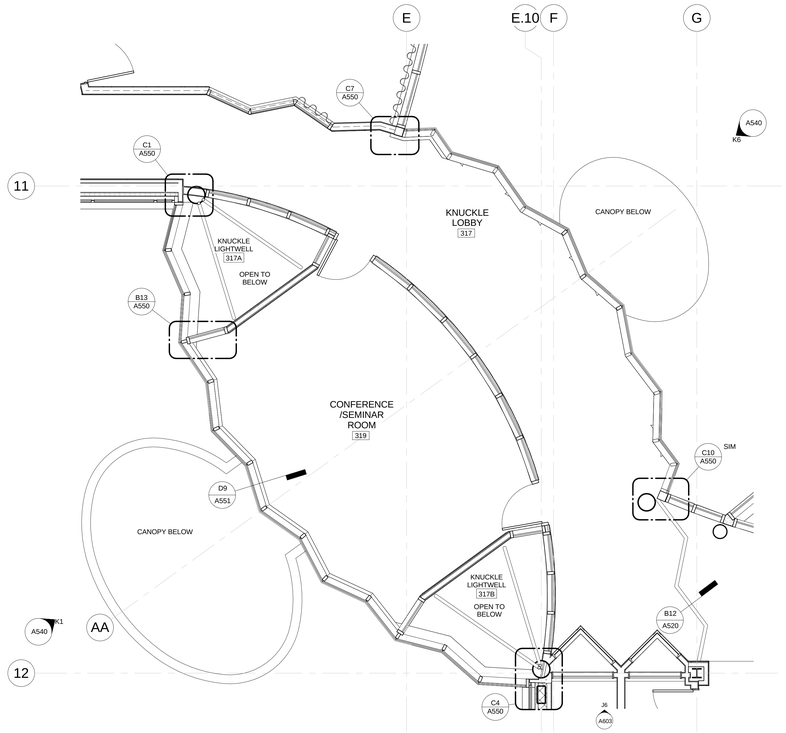
Clifford Graf Rast (R) SCSU New Academic and Laboratory Building Art Conte_Graphics 11/21/2012 1:05:05 PM



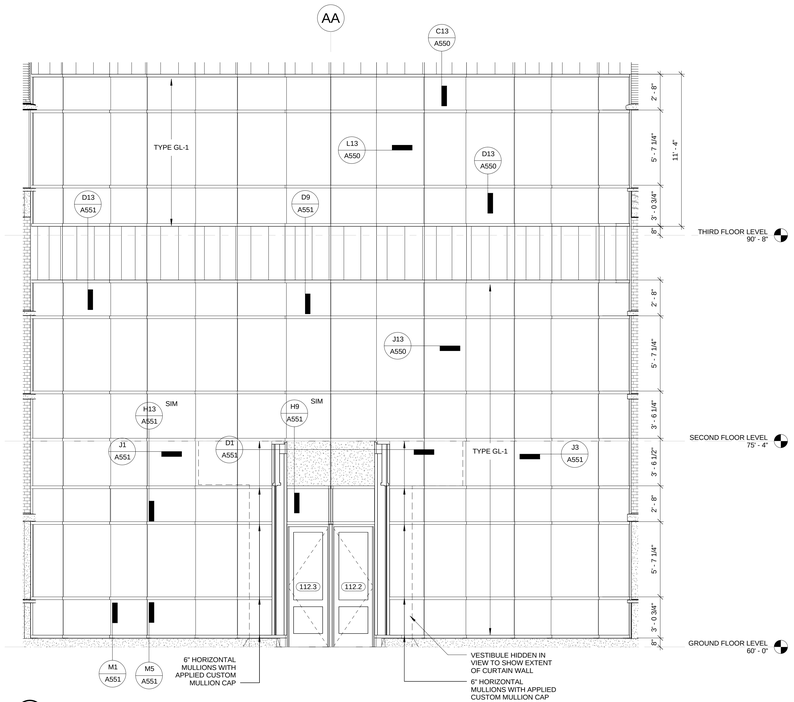
F1 CURTAIN WALL LAYOUT PLAN AT GROUND FLOOR KNUCKLE
1/4" = 1'-0"



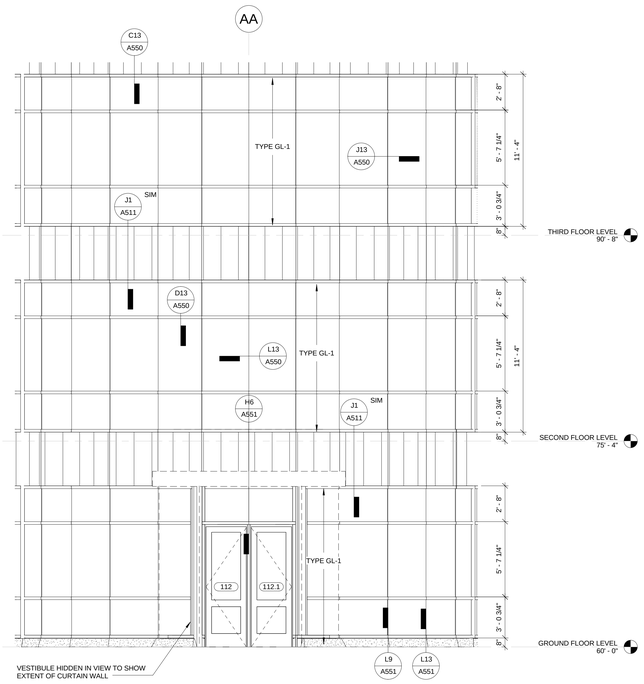
F6 CURTAIN WALL LAYOUT PLAN AT SECOND FLOOR KNUCKLE
1/4" = 1'-0"



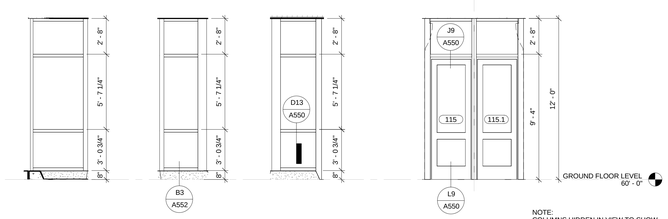
F11 CURTAIN WALL LAYOUT PLAN AT THIRD FLOOR KNUCKLE
1/4" = 1'-0"



K1 CURTAIN WALL - NORTH-WEST ELEVATION
1/4" = 1'-0"



K6 CURTAIN WALL - SOUTH-EAST ELEVATION
1/4" = 1'-0"

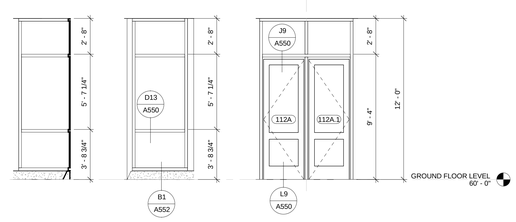


M1 VESTIBULE 115 - 1
1/4" = 1'-0"

M2 VESTIBULE 115 - 2
1/4" = 1'-0"

M3 VESTIBULE 115 - 3
1/4" = 1'-0"

M4 VESTIBULE 115 - 4
1/4" = 1'-0"



M6 VESTIBULE 112A - 1
1/4" = 1'-0"

M7 VESTIBULE 112A - 2
1/4" = 1'-0"

M8 VESTIBULE 112A - 3
1/4" = 1'-0"

NOTE:
1. REFER TO SPECIFICATIONS FOR GLASS TYPES
2. PLANS DIMENSIONED TO THE MIDPOINT OF THE EXTERIOR FACE OF THE MULLION

drawing title: CURTAIN WALL PLANS AND ELEVATIONS – KNUCKLE

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD file: 1393
project no.: BI-RS-283

volume: 1 of 2
date: 11-21-2012
scale: 1/4" = 1'-0"
drawn by: LT
supervised by: RMUJBR
drawing no.: A540

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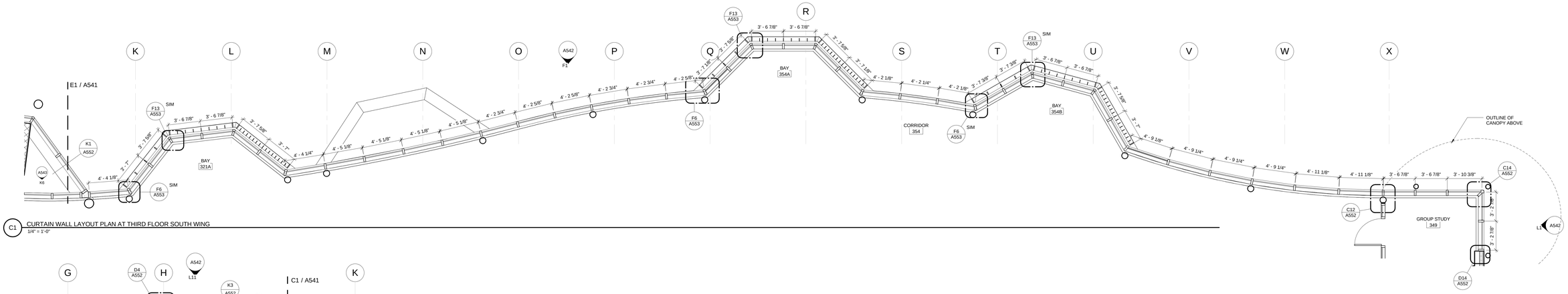
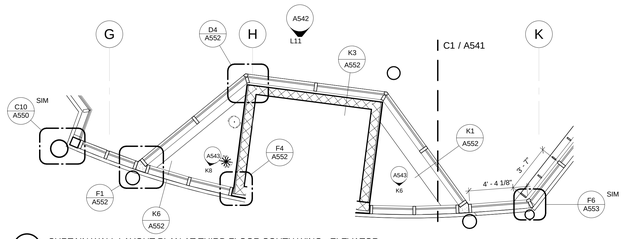
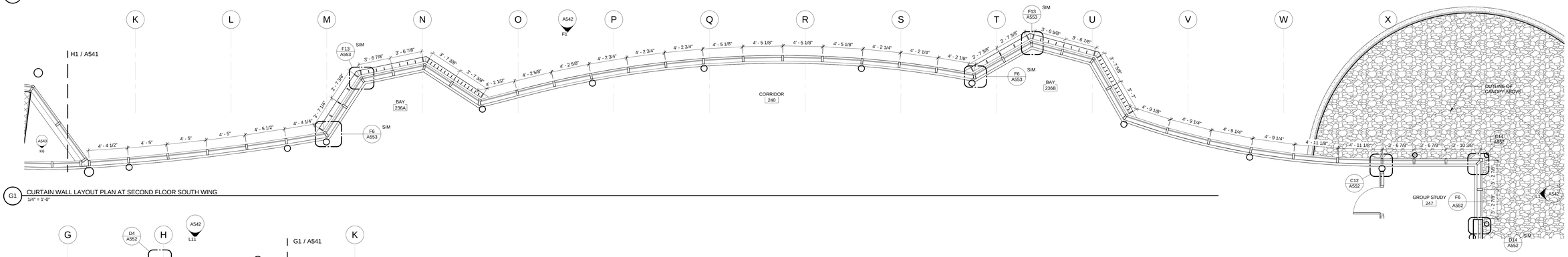


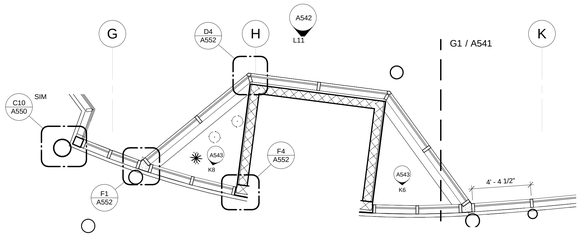
C1 CURTAIN WALL LAYOUT PLAN AT THIRD FLOOR SOUTH WING
1/4" = 1'-0"



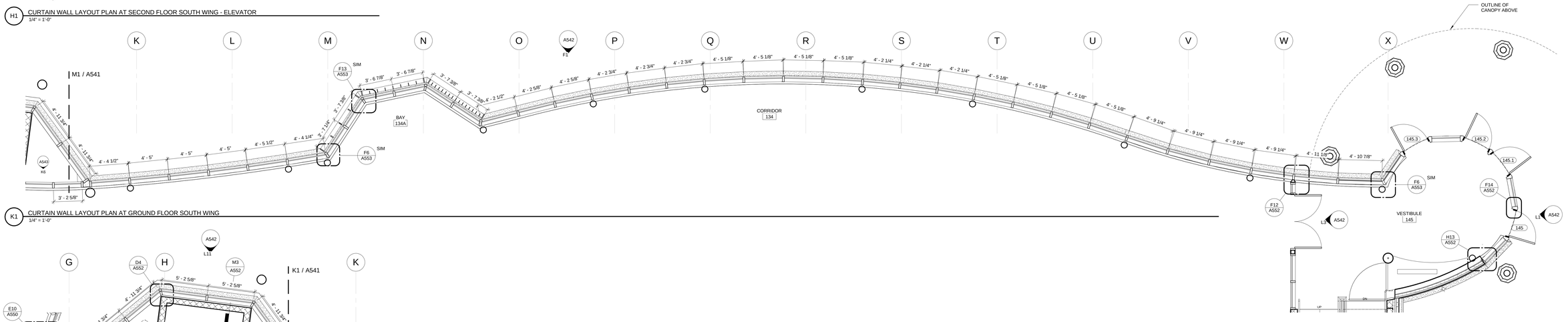
E1 CURTAIN WALL LAYOUT PLAN AT THIRD FLOOR SOUTH WING - ELEVATOR
1/4" = 1'-0"



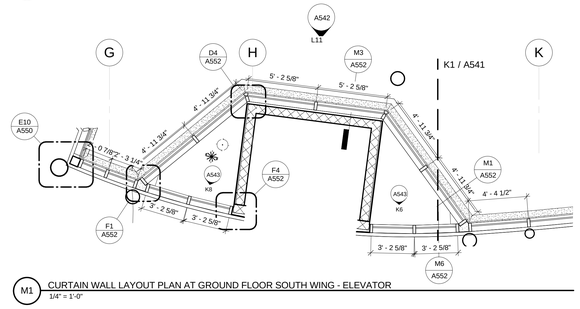
G1 CURTAIN WALL LAYOUT PLAN AT SECOND FLOOR SOUTH WING
1/4" = 1'-0"



H1 CURTAIN WALL LAYOUT PLAN AT SECOND FLOOR SOUTH WING - ELEVATOR
1/4" = 1'-0"



K1 CURTAIN WALL LAYOUT PLAN AT GROUND FLOOR SOUTH WING
1/4" = 1'-0"



M1 CURTAIN WALL LAYOUT PLAN AT GROUND FLOOR SOUTH WING - ELEVATOR
1/4" = 1'-0"

NOTE:
1. REFER TO SPECIFICATIONS FOR GLASS TYPES
2. PLANS DIMENSIONED TO THE MIDPOINT OF THE EXTERIOR FACE OF THE MULLION

drawing title: CURTAIN WALL PLANS AND ELEVATIONS – SOUTH WING

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

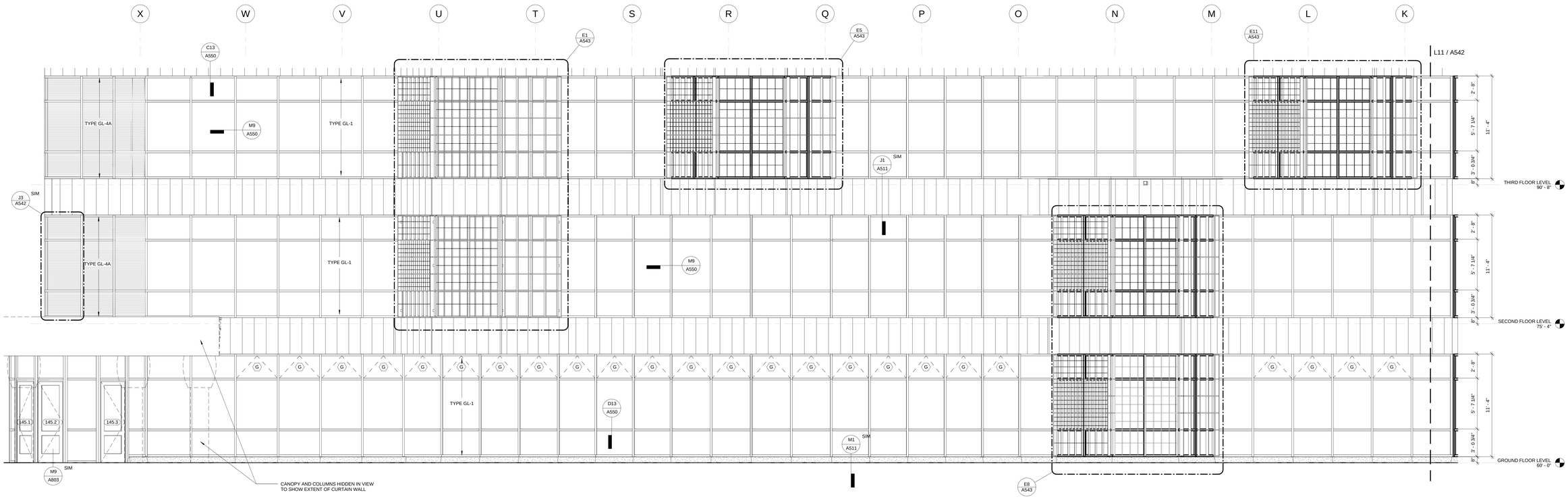
STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING: Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

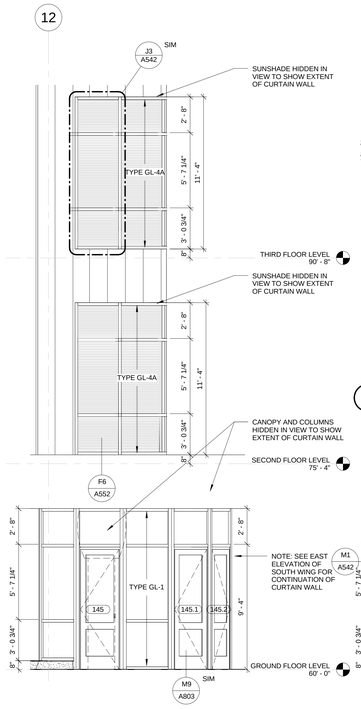
project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD file: 1393
project no.: BI-RS-283

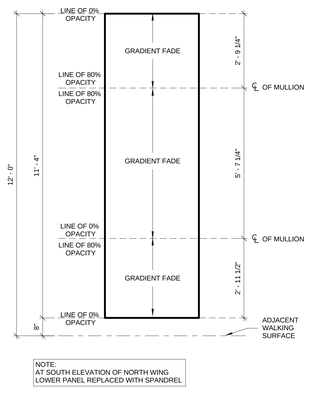
volume: 1 of 2
date: 11-21-2012
scale: 1/4" = 1'-0"
drawn by: LT
reviewed by: RMUBR
drawing no.: A541



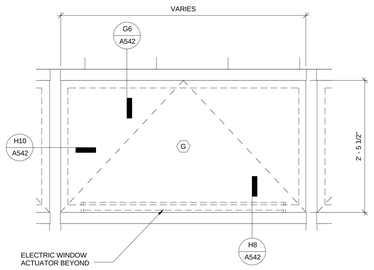
F1 CURTAIN WALL - EAST ELEVATION OF SOUTH WING
1/4" = 1'-0"



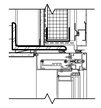
L1 CURTAIN WALL - SOUTH ELEVATION OF SOUTH WING
1/4" = 1'-0"



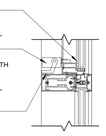
J3 GRADIENT FRIT PATTERN AT CURTAIN WALL
1/2" = 1'-0"



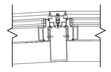
H5 CURTAIN WALL OPERABLE ATRIUM SMOKE CONTROL WINDOW (TYPE G)
1" = 1'-0"



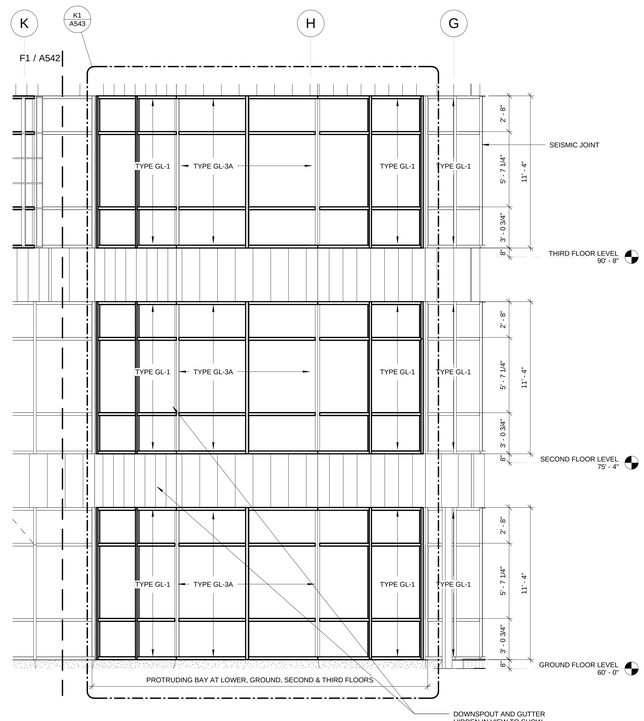
G6 CURTAIN WALL OPERABLE WINDOW HEAD DETAIL
1 1/2" = 1'-0"



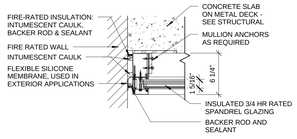
H8 CURTAIN WALL OPERABLE WINDOW SILL DETAIL
1 1/2" = 1'-0"



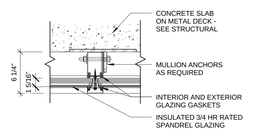
H10 CURTAIN WALL OPERABLE WINDOW JAMB DETAIL
1 1/2" = 1'-0"



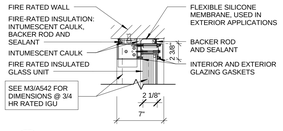
L11 CURTAIN WALL - EAST ELEVATION OF SOUTH WING ELEVATOR
1/4" = 1'-0"



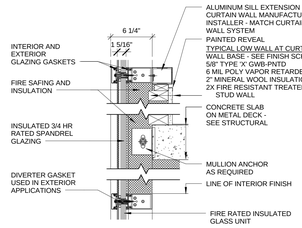
J7 CURTAIN WALL VERTICAL MULLION AT FIRE RATED SYSTEM AND SLAB EDGE 1
1 1/2" = 1'-0"



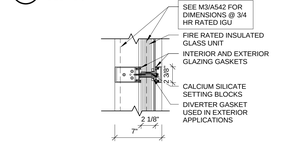
J10 CURTAIN WALL VERTICAL MULLION AT FIRE RATED SYSTEM AND SLAB EDGE 2
1 1/2" = 1'-0"



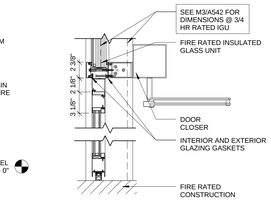
K10 CURTAIN WALL HEAD AT FIRE RATED SYSTEM
1 1/2" = 1'-0"



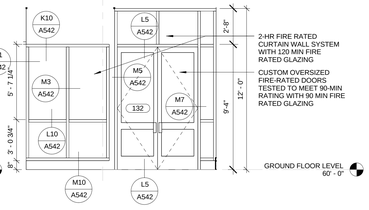
L7 CURTAIN WALL HORIZONTAL MULLION AT FIRE RATED SYSTEM AND SLAB EDGE
1 1/2" = 1'-0"



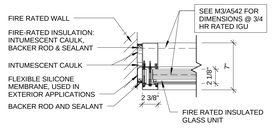
L10 CURTAIN WALL HORIZONTAL MULLION AT FIRE RATED SYSTEM
1 1/2" = 1'-0"



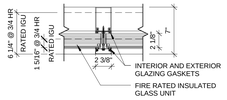
L5 DOOR HEAD AT TRANSOM AND BOTTOM RAIL AT FIRE RATED SYSTEM
1 1/2" = 1'-0"



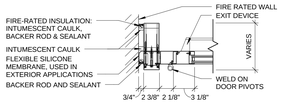
L3 CURTAIN WALL VESTIBULE 145
1/4" = 1'-0"



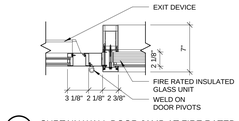
M1 CURTAIN WALL JAMB AT FIRE RATED SYSTEM
1 1/2" = 1'-0"



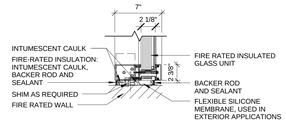
M3 CURTAIN WALL VERTICAL MULLION AT FIRE RATED SYSTEM
1 1/2" = 1'-0"



M5 CURTAIN WALL DOOR JAMB AT FIRE RATED SYSTEM 1
1 1/2" = 1'-0"



M7 CURTAIN WALL DOOR JAMB AT FIRE RATED SYSTEM 2
1 1/2" = 1'-0"



M10 CURTAIN WALL SILL AT FIRE RATED SYSTEM
1 1/2" = 1'-0"

NOTE:
1. REFER TO SPECIFICATIONS FOR GLASS TYPES
2. PLANS DIMENSIONED TO THE MIDPOINT OF THE EXTERIOR FACE OF THE MULLION

drawing title: CURTAIN WALL PLANS AND ELEVATIONS – SOUTH WING

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

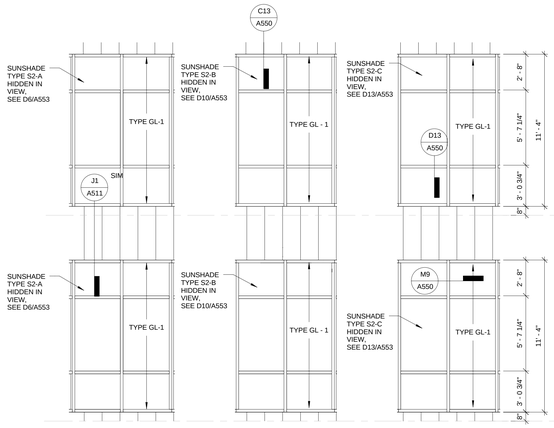
STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING: Centerbrook Architects and Planners, LLP, 67 Main Street, Post Office Box 955, Centerbrook, Connecticut 06409-0955

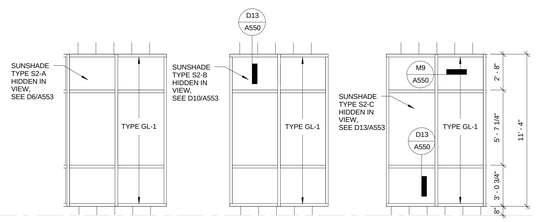
project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD file: 1393 | project no.: BI-RS-283

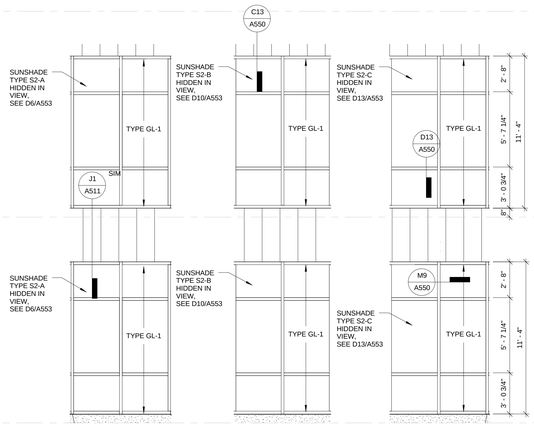
volume: 1 of 2
date: 11-21-2012
scale: As indicated
drawn by: LT
supervised by: RMJ/BR
drawing no.: A542



E1 CURTAIN WALL SOUTH WING BAY 1
1/4" = 1'-0"

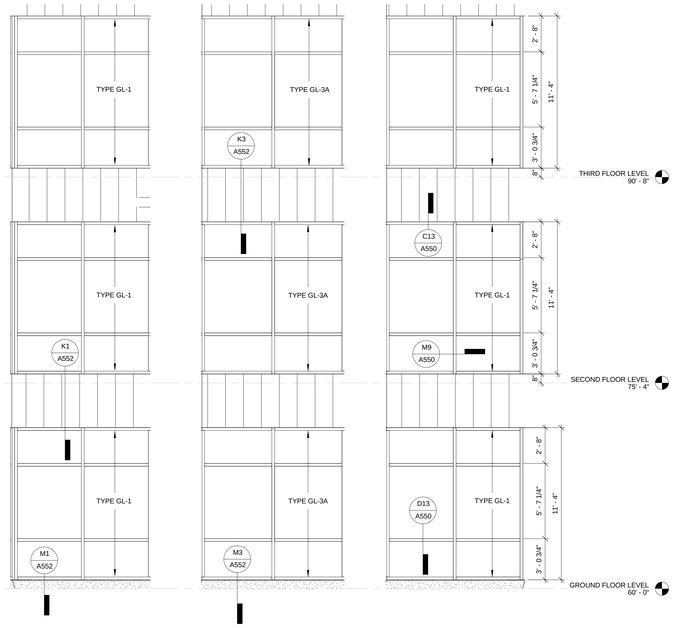


E5 CURTAIN WALL SOUTH WING BAY 2
1/4" = 1'-0"

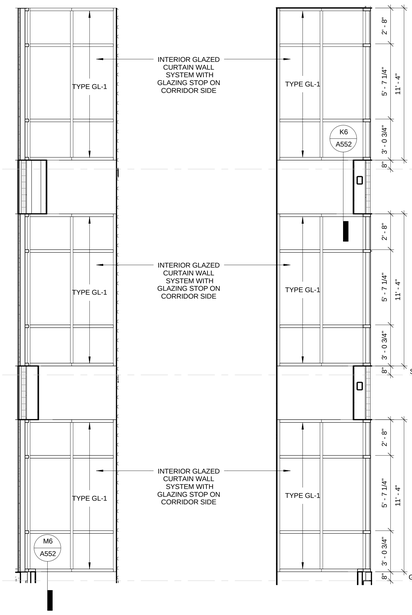


E8 CURTAIN WALL SOUTH WING BAY 3
1/4" = 1'-0"

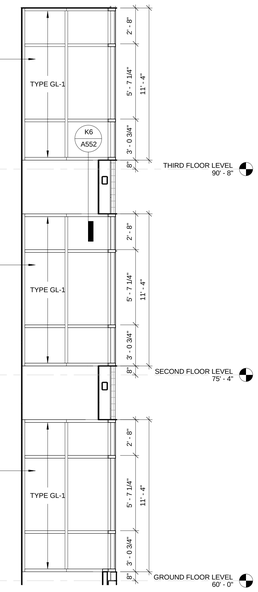
E11 CURTAIN WALL SOUTH WING BAY 4
1/4" = 1'-0"



K1 CURTAIN WALL SOUTH WING ELEVATOR BAY
1/4" = 1'-0"



K6 CURTAIN WALL SOUTH WING ELEVATOR BAY - INTERIOR SOUTH SIDE
1/4" = 1'-0"



K8 CURTAIN WALL SOUTH WING ELEVATOR BAY - INTERIOR NORTH SIDE
1/4" = 1'-0"

NOTE:
1. REFER TO SPECIFICATIONS FOR GLASS TYPES
2. PLANS DIMENSIONED TO THE MIDPOINT OF THE EXTERIOR FACE OF THE MULLION

mark	date	description
	11-21-2012	Bid Documents

drawing title: CURTAIN WALL PLANS AND ELEVATIONS – SOUTH WING

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

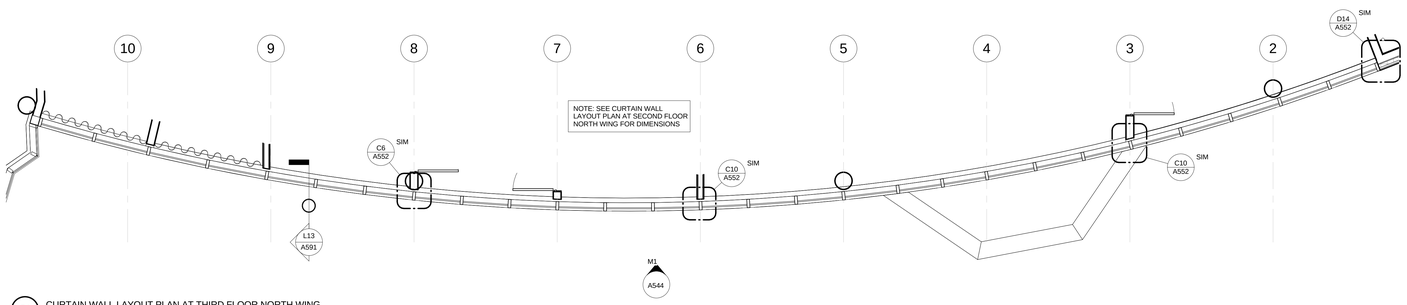
DRAWING: Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

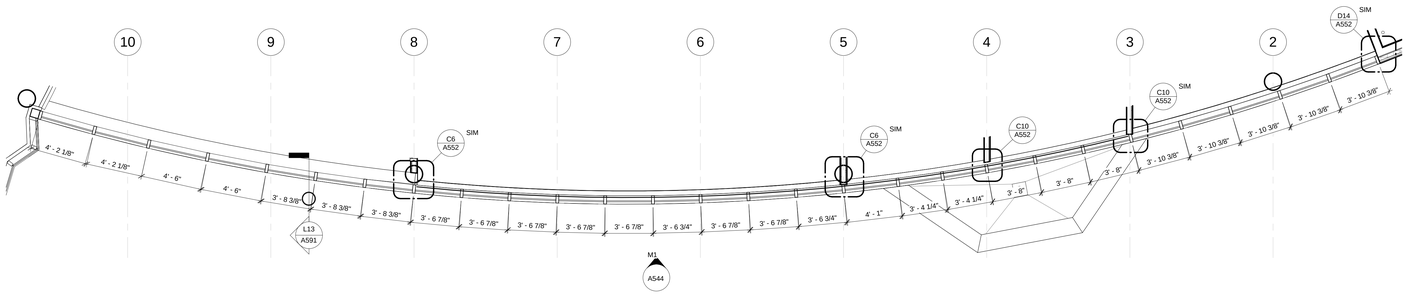
CAD: 1393
project no.: BI-RS-283

volume: 1 of 2
date: 11-21-2012
scale: 1/4" = 1'-0"
drawn by: LT
approved by: RMUBR
drawing no.: A543

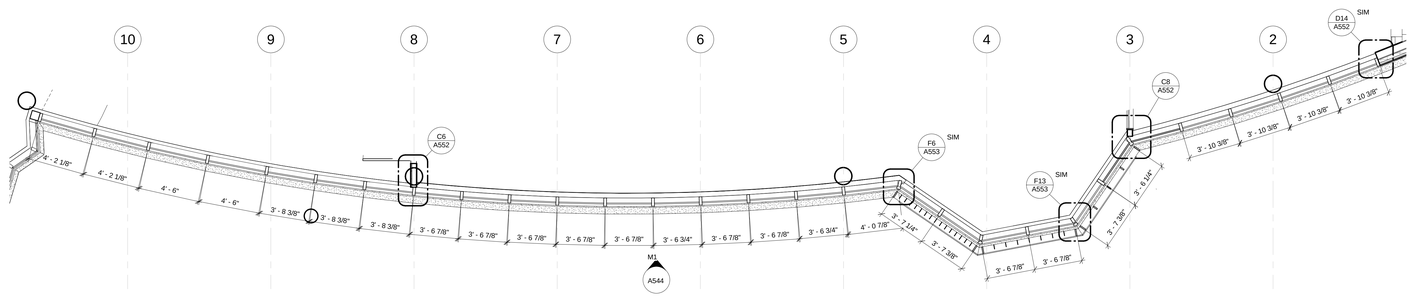
Clifford Lloyd Reid 783 SCSU New Academic and Laboratory Building 413 Crawing Graphics 11/21/2012 1:10:52 PM



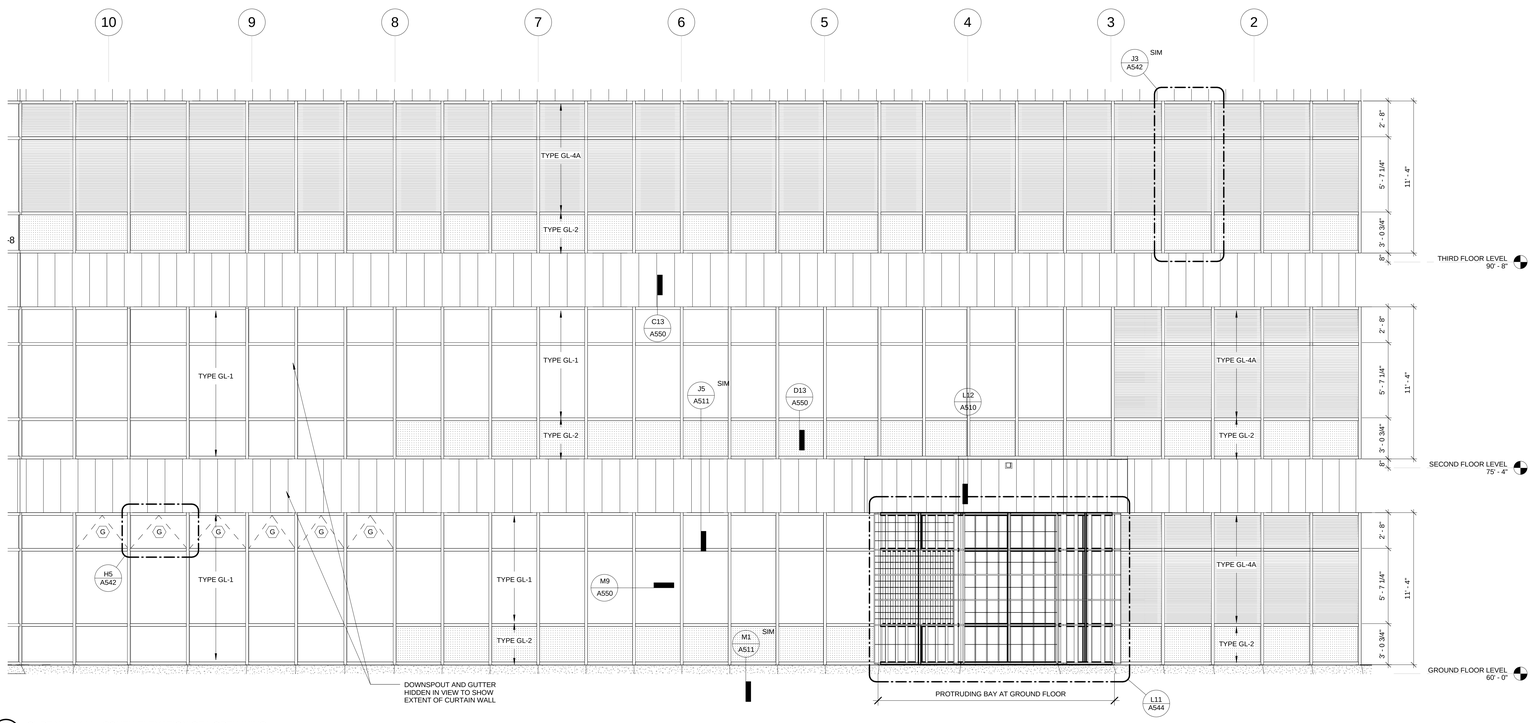
C1 CURTAIN WALL LAYOUT PLAN AT THIRD FLOOR NORTH WING
1/4" = 1'-0"



E1 CURTAIN WALL LAYOUT PLAN AT SECOND FLOOR NORTH WING
1/4" = 1'-0"

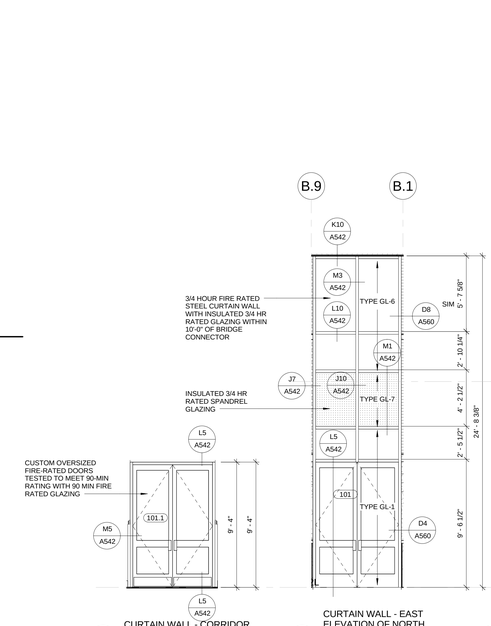


G1 CURTAIN WALL LAYOUT PLAN AT GROUND FLOOR NORTH WING
1/4" = 1'-0"

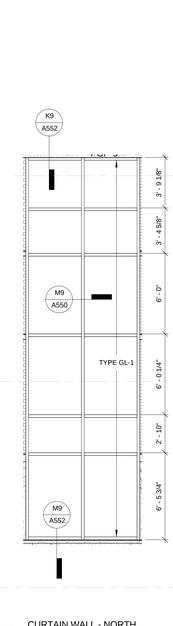


M1 CURTAIN WALL - SOUTH ELEVATION OF NORTH WING
1/4" = 1'-0"

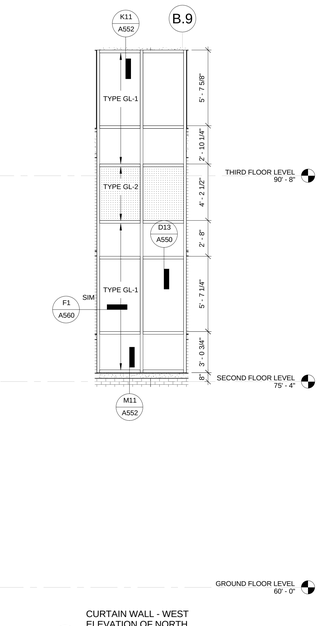
E10 CURTAIN WALL - CORRIDOR 101
1/4" = 1'-0"



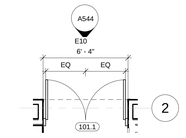
E11 CURTAIN WALL - EAST ELEVATION OF NORTH WING
1/4" = 1'-0"



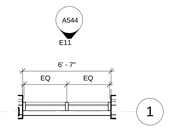
E13 CURTAIN WALL - NORTH ELEVATION AT STAIR 1
1/4" = 1'-0"



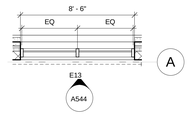
E14 CURTAIN WALL - WEST ELEVATION OF NORTH WING
1/4" = 1'-0"



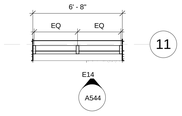
F10 CURTAIN WALL LAYOUT AT CORRIDOR 101
1/4" = 1'-0"



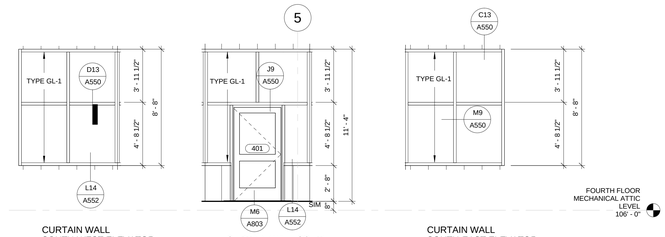
F11 CURTAIN WALL LAYOUT AT BRIDGE CONNECTION SECOND FLOOR
1/4" = 1'-0"



F13 CURTAIN WALL LAYOUT PLAN AT GROUND FLOOR STAIR 1 - TYP OF SECOND & THIRD FLOORS
1/4" = 1'-0"



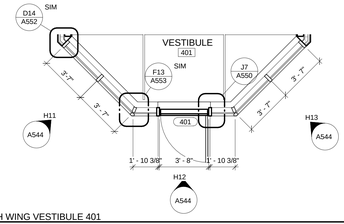
F14 CURTAIN WALL LAYOUT PLAN AT WEST ELEVATION OF NORTH WING - SECOND FLOOR PLAN
1/4" = 1'-0"



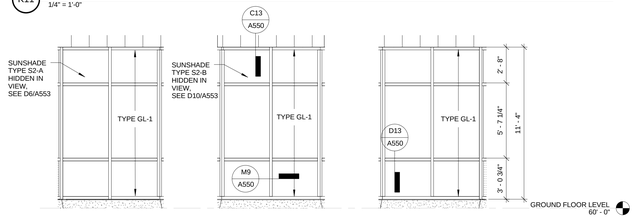
H11 CURTAIN WALL SOUTH-WEST ELEVATOR VESTIBULE
1/4" = 1'-0"

H12 CURTAIN WALL SOUTH ELEVATOR VESTIBULE
1/4" = 1'-0"

H13 CURTAIN WALL SOUTH-EAST ELEVATOR VESTIBULE
1/4" = 1'-0"



K11 CURTAIN WALL NORTH WING VESTIBULE 401
1/4" = 1'-0"

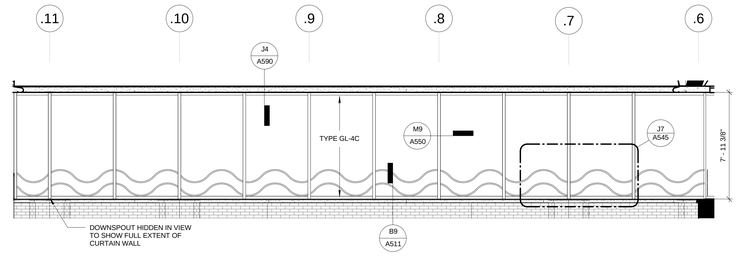


L11 CURTAIN WALL NORTH WING BAY 1
1/4" = 1'-0"

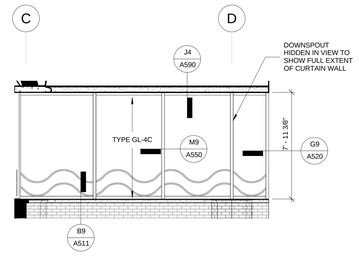
NOTE:
1. REFER TO SPECIFICATIONS FOR GLASS TYPES.
2. PLANS DIMENSIONED TO THE MIDPOINT OF THE EXTERIOR FACE OF THE MULLION

drawing title: CURTAIN WALL PLANS AND ELEVATIONS – NORTH WING	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		volume 1 of 2
REVISIONS: mark / date / description; 1-21-2012 Bid Documents	DRAWING prepared by: Centerbrook Architects and Planners, LLP, 67 Main Street, Post Office Box 955, Centerbrook, Connecticut 06409-0955		date 11-21-2012
	project: SCSU NEW ACADEMIC LABORATORY BUILDING		scale 1/4" = 1'-0"
		drawn by LT	approved by RM/JBR
	CAD file 1393	project no. BI-RS-283	drawing no. A544

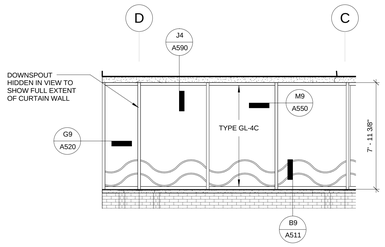
Clifford Lloyd Reid (RS) SCSU New Academic and Laboratory Building 612 Comp_Graphics 11/21/2012 1:02:39 PM



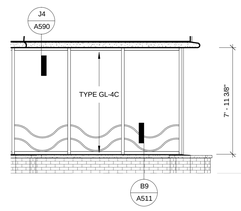
B1 CURTAIN WALL - SOUTH ELEVATION OF BRIDGE
1/4" = 1'-0"



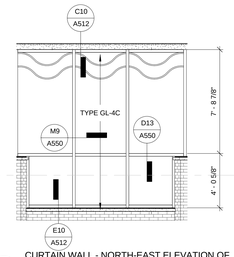
B6 CURTAIN WALL - WEST ELEVATION OF BRIDGE
1/4" = 1'-0"



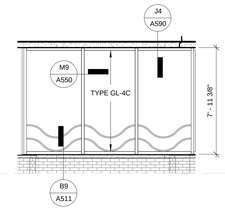
E1 CURTAIN WALL - EAST ELEVATION OF BRIDGE
1/4" = 1'-0"



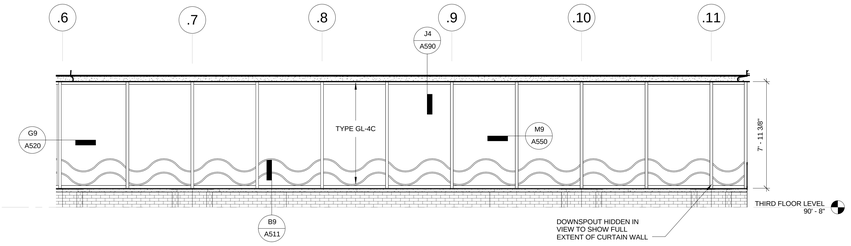
E4 CURTAIN WALL - SOUTH-EAST ELEVATION OF BRIDGE
1/4" = 1'-0"



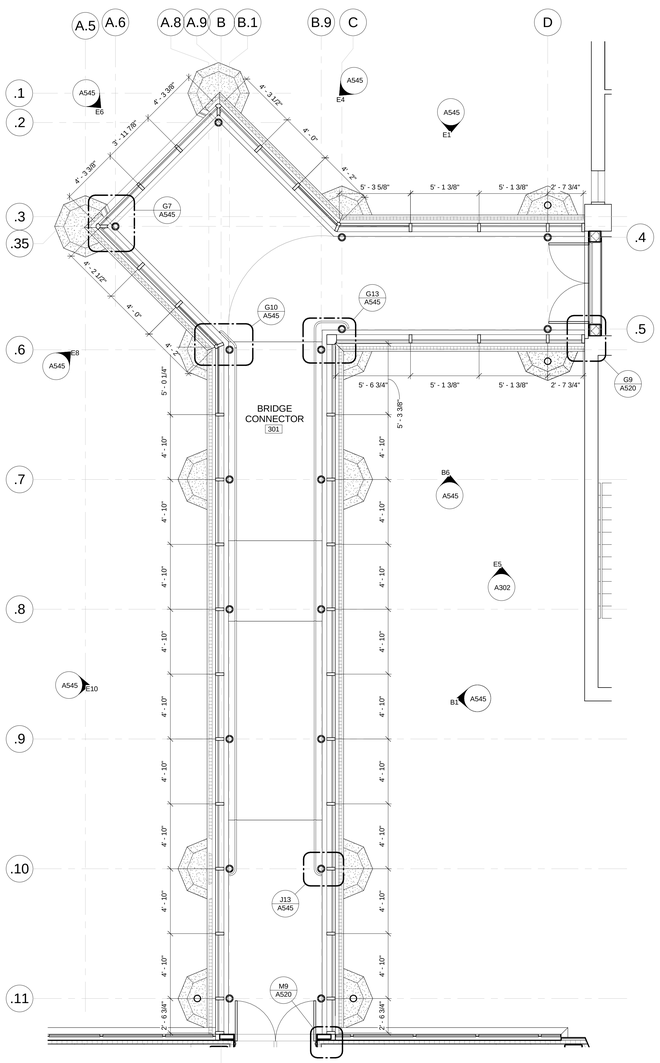
E6 CURTAIN WALL - NORTH-EAST ELEVATION OF BRIDGE
1/4" = 1'-0"



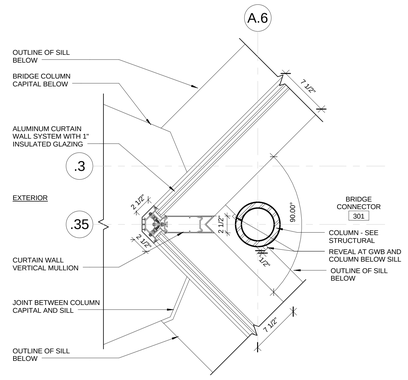
E8 CURTAIN WALL - NORTH-WEST ELEVATION OF BRIDGE
1/4" = 1'-0"



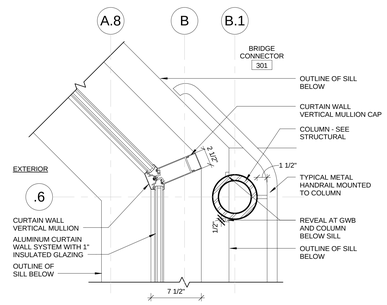
E10 CURTAIN WALL - NORTH ELEVATION OF BRIDGE
1/4" = 1'-0"



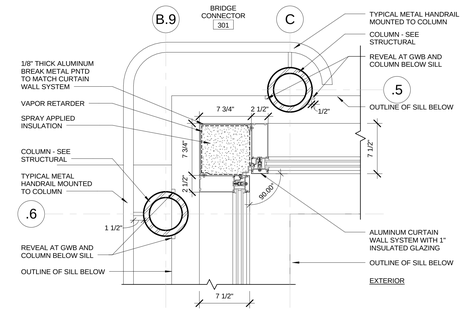
M1 CURTAIN WALL LAYOUT PLAN OF THIRD FLOOR PLAN - BRIDGE TO JENNINGS
1/4" = 1'-0"



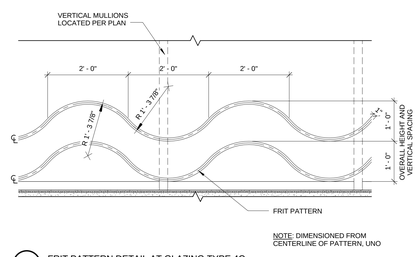
G7 VERTICAL OUTSIDE CORNER MULLION AT A.6-.35
1 1/2" = 1'-0"



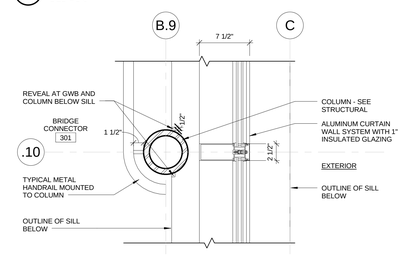
G10 VERTICAL INSIDE CORNER AT B.1-.6
1 1/2" = 1'-0"



G13 VERTICAL INSIDE CORNER MULLION AT B.9-.6 & C-.5
1 1/2" = 1'-0"



J7 FRIT PATTERN DETAIL AT GLAZING TYPE 4C
3/4" = 1'-0"

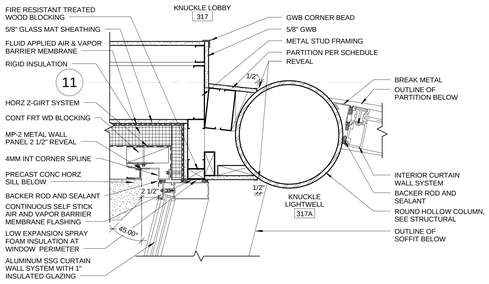


J13 VERTICAL MULLION AT B.9-.10
1 1/2" = 1'-0"

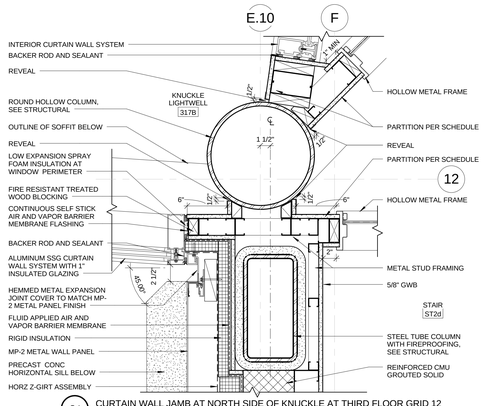
NOTE:
1. REFER TO SPECIFICATIONS FOR GLASS TYPES
2. PLANS DIMENSIONED TO THE MIDPOINT OF THE EXTERIOR FACE OF THE MULLION

project title: CURTAIN WALL PLANS AND ELEVATIONS – BRIDGE	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		volume: 1 of 2
REVISIONS: mark / date / description	DRAWING PREPARED BY: **Centerbrook Architects and Planners, LLP** 67 Main Street Post Office Box 955 Centerbrook, Connecticut 06409-0955		date: 11-21-2012
11-21-2012 Bid Documents			scale: As indicated
	project: SCSU NEW ACADEMIC LABORATORY BUILDING		drawn by: LT
			checked by: RM/JBR
	CAD no. 1393	project no. BI-RS-283	drawing no. A545

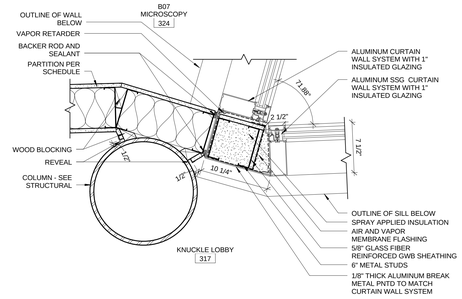
Collaborative Lab Facility 2013 SCSU New Academic and Laboratory Building A13 Central_Graphics.rvt 11/21/2012 2:08:52 PM



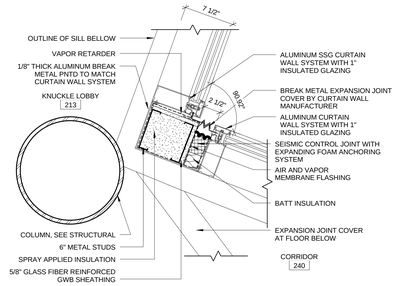
C1 CURTAIN WALL JAMB AT NORTH SIDE OF KNUCKLE AT THIRD FLOOR GRID 11
1 1/2" = 1'-0"



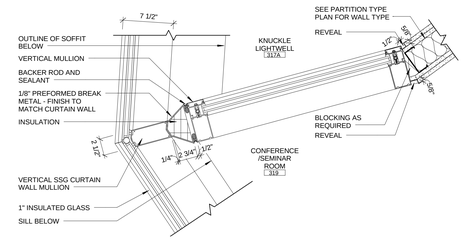
C4 CURTAIN WALL JAMB AT NORTH SIDE OF KNUCKLE AT THIRD FLOOR GRID 12
1 1/2" = 1'-0"



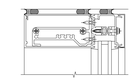
C7 CURTAIN WALL JAMB AT SOUTHEAST SIDE OF KNUCKLE AT THIRD FLOOR
1 1/2" = 1'-0"



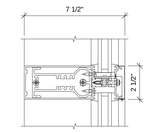
C10 CURTAIN WALL JAMB AT SOUTHWEST SIDE OF KNUCKLE AT SECOND FLOOR
1 1/2" = 1'-0"



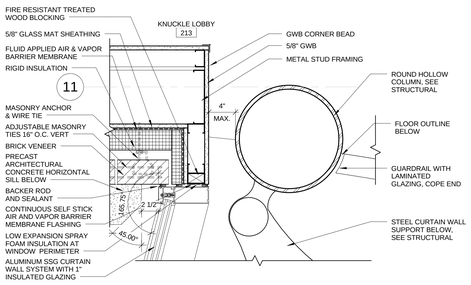
B13 CURTAIN WALL MULLION DETAIL AT NORTH SIDE OF KNUCKLE AT THIRD FLOOR
1 1/2" = 1'-0"



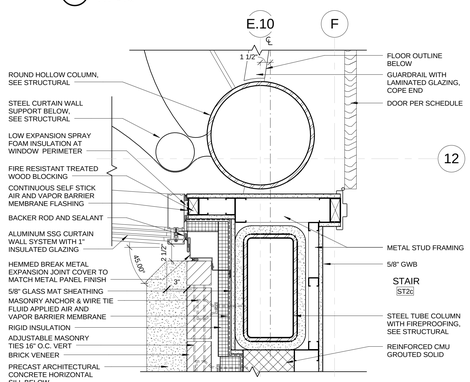
C13 CURTAIN WALL HEAD
3" = 1'-0"



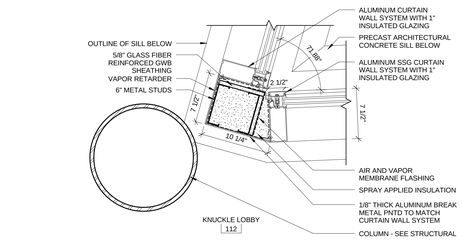
D13 CURTAIN WALL HORIZONTAL MULLION
3" = 1'-0"



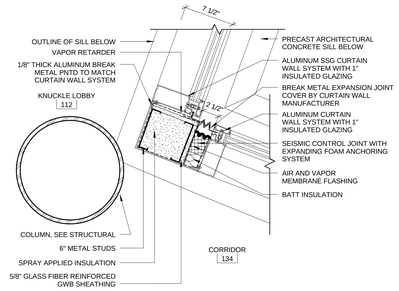
E1 CURTAIN WALL JAMB AT NORTH SIDE OF KNUCKLE AT SECOND FLOOR GRID 11
1 1/2" = 1'-0"



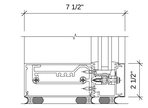
E4 CURTAIN WALL JAMB AT NORTH SIDE OF KNUCKLE AT SECOND FLOOR GRID 12
1 1/2" = 1'-0"



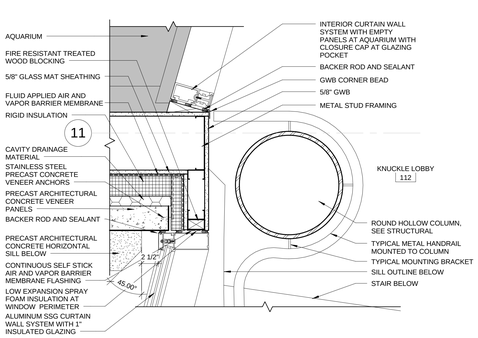
E7 CURTAIN WALL JAMB AT SOUTHEAST SIDE OF KNUCKLE AT GROUND FLOOR
1 1/2" = 1'-0"



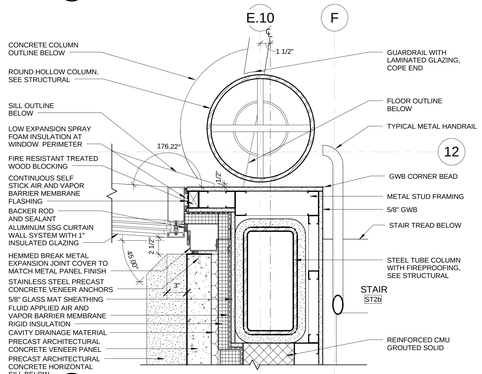
E10 CURTAIN WALL JAMB AT SOUTHWEST SIDE OF KNUCKLE AT GROUND FLOOR
1 1/2" = 1'-0"



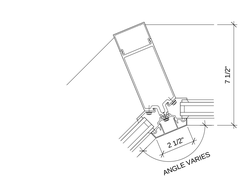
E13 CURTAIN WALL SILL, TYP.
3" = 1'-0"



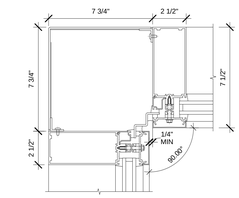
H1 CURTAIN WALL JAMB AT NORTH SIDE OF KNUCKLE AT GROUND FLOOR GRID 11
1 1/2" = 1'-0"



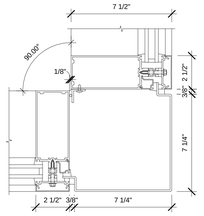
H4 CURTAIN WALL JAMB AT NORTH SIDE OF KNUCKLE AT GROUND FLOOR GRID 12
1 1/2" = 1'-0"



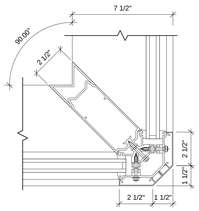
H7 CURTAIN WALL VERTICAL INSIDE CORNER MULLION 2
3" = 1'-0"



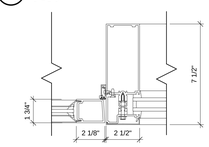
H9 CURTAIN WALL 90° INSIDE CORNER VERTICAL MULLION
3" = 1'-0"



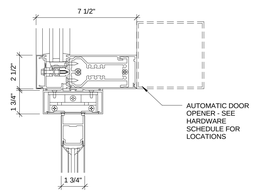
H11 CURTAIN WALL 90° OUTSIDE CORNER VERTICAL MULLION 1
3" = 1'-0"



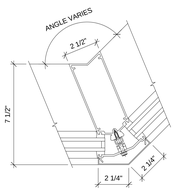
H13 CURTAIN WALL 90° OUTSIDE CORNER VERTICAL MULLION 2
3" = 1'-0"



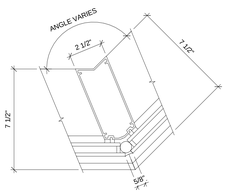
J7 CURTAIN WALL DOOR JAMB @ SIDE LIGHT
3" = 1'-0"



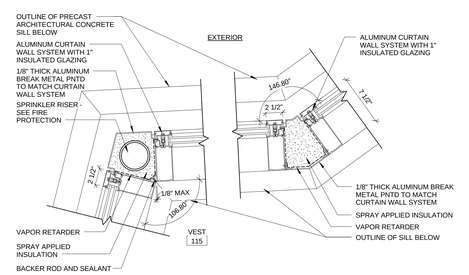
J9 FRAMED ENTRANCE HEAD DETAIL, TYP.
3" = 1'-0"



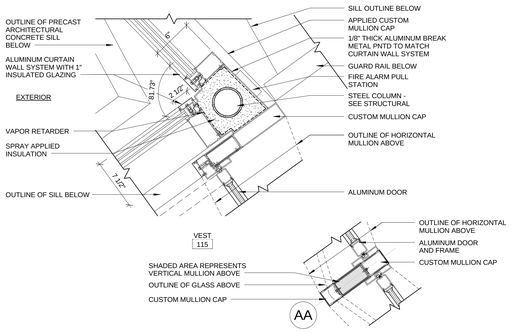
J11 CURTAIN WALL VERTICAL OUTSIDE CORNER MULLION
3" = 1'-0"



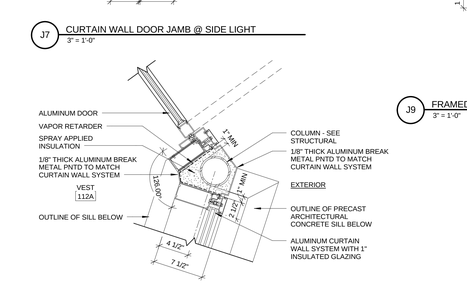
J13 CURTAIN WALL VERTICAL OUTSIDE CORNER MULLION - SSG, TYP.
3" = 1'-0"



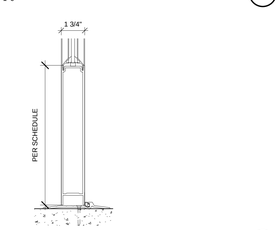
K1 VESTIBULE 115 OUTSIDE & INSIDE CORNERS
1 1/2" = 1'-0"



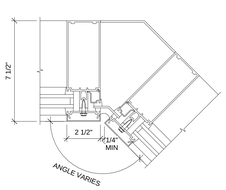
K4 VESTIBULE 115 DOOR JAMB AND CONNECTION TO SSG
1 1/2" = 1'-0"



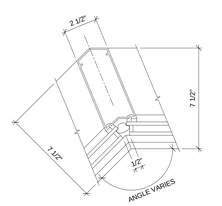
K7 VESTIBULE 112A OUTSIDE CORNER MULLION & DOOR JAMB
1 1/2" = 1'-0"



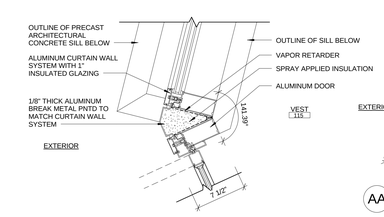
L9 FRAMED ENTRANCE BOTTOM RAIL DETAIL, TYP
3" = 1'-0"



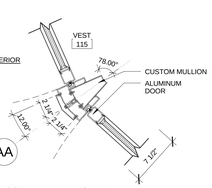
L11 CURTAIN WALL VERTICAL INSIDE CORNER MULLION 1
3" = 1'-0"



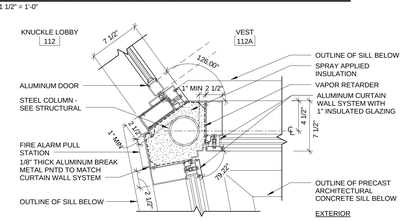
L13 CURTAIN WALL VERTICAL INSIDE CORNER MULLION - SSG, TYP.
3" = 1'-0"



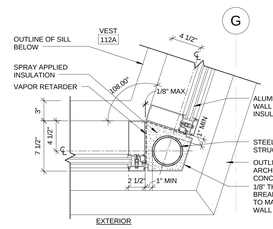
M1 VESTIBULE 115 DOOR CORNER MULLION
1 1/2" = 1'-0"



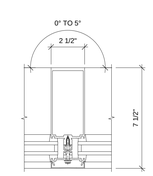
M3 DOOR JAMB AT VEST 115
1 1/2" = 1'-0"



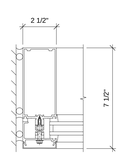
M4 VESTIBULE 112A INSIDE DOOR JAMB CONNECTION TO SSG
1 1/2" = 1'-0"



M7 VESTIBULE 112A OUTSIDE CORNER MULLION
1 1/2" = 1'-0"



M9 CURTAIN WALL VERTICAL MULLION, TYP
3" = 1'-0"



M11 CURTAIN WALL JAMB, TYP.
3" = 1'-0"

drawing title: CURTAIN WALL DETAILS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		volume 1 of 2
REVISIONS			date 11-21-2012
mark / date / description	DRAWING PREPARED BY Centerbrook Architects and Planners, LLP 67 Main Street Post Office Box 955 Centerbrook, Connecticut 06409-0955		scale As indicated
11-21-2012 Bid Documents	project SCSU NEW ACADEMIC LABORATORY BUILDING		drawn by LT/TCT
	CAD no. 1393	project no. BI-RS-283	checked by RMJ/BR
			drawing no. A550

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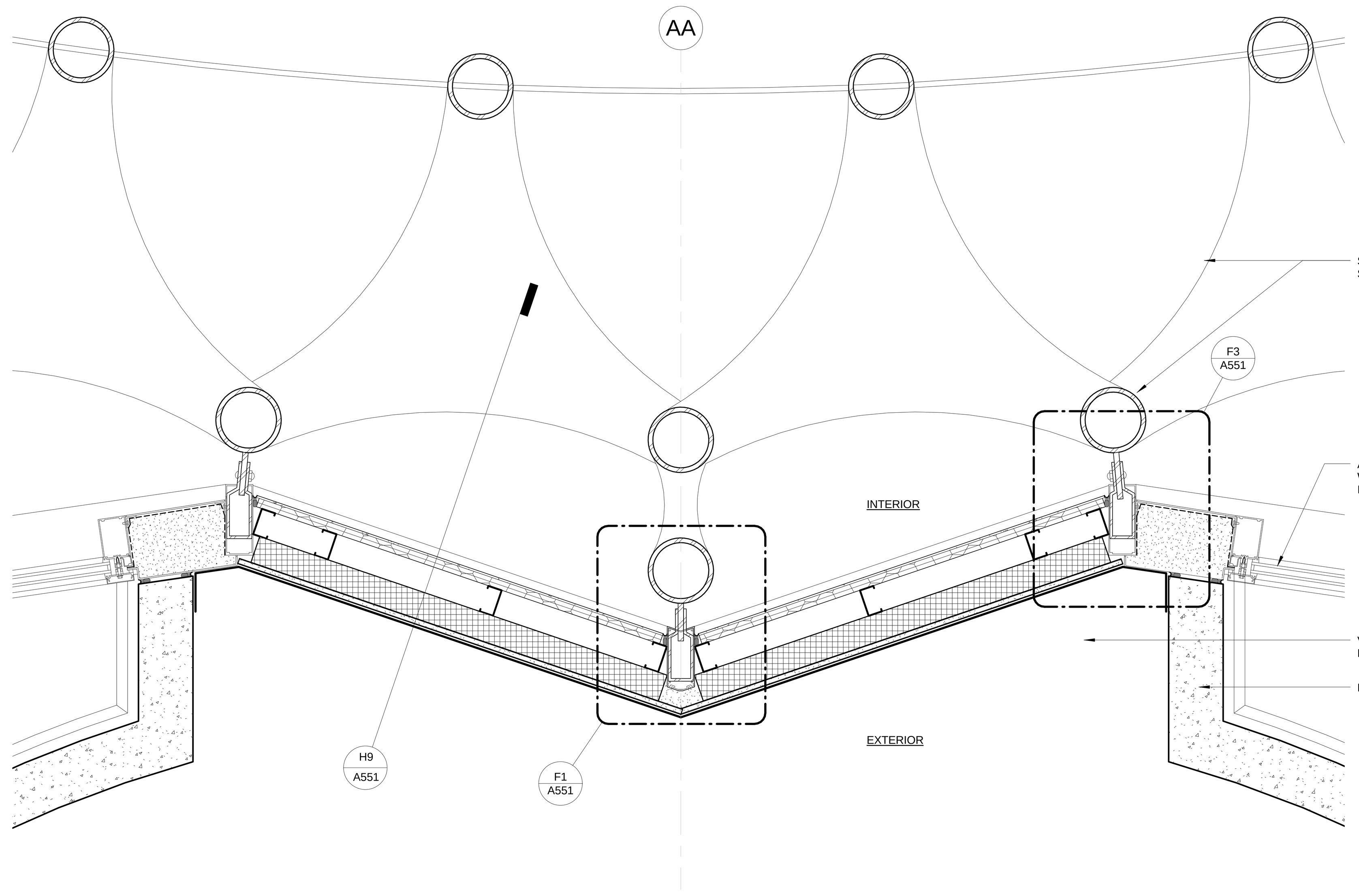
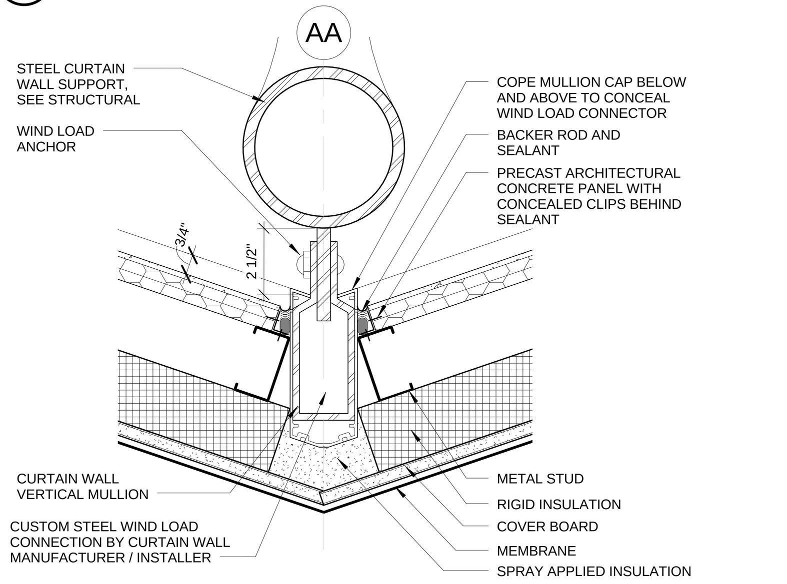
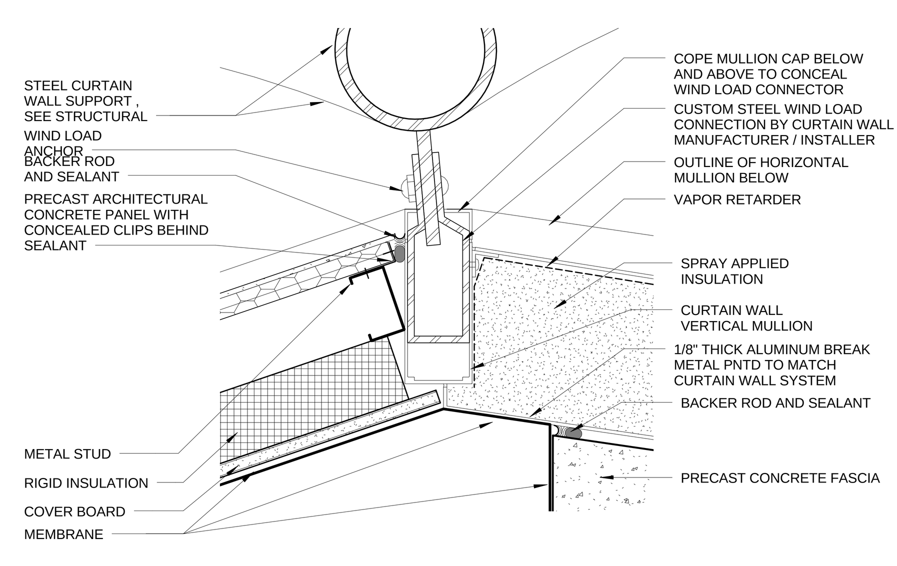


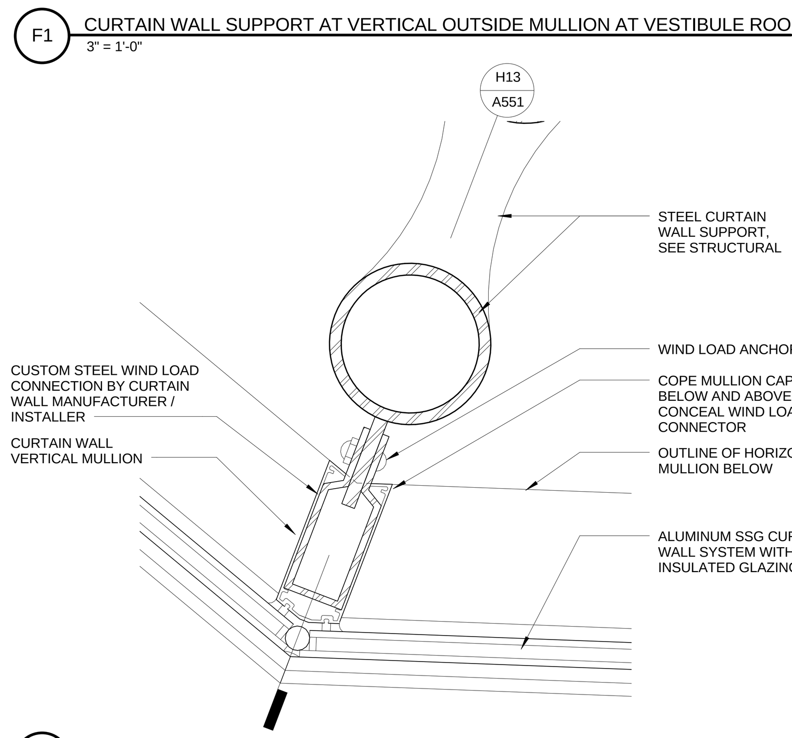
D1 CURTAIN WALL PLAN DETAIL AT NORTH SIDE OF KNUCKLE AT VESTIBULE ROOF1
1 1/2" = 1'-0"



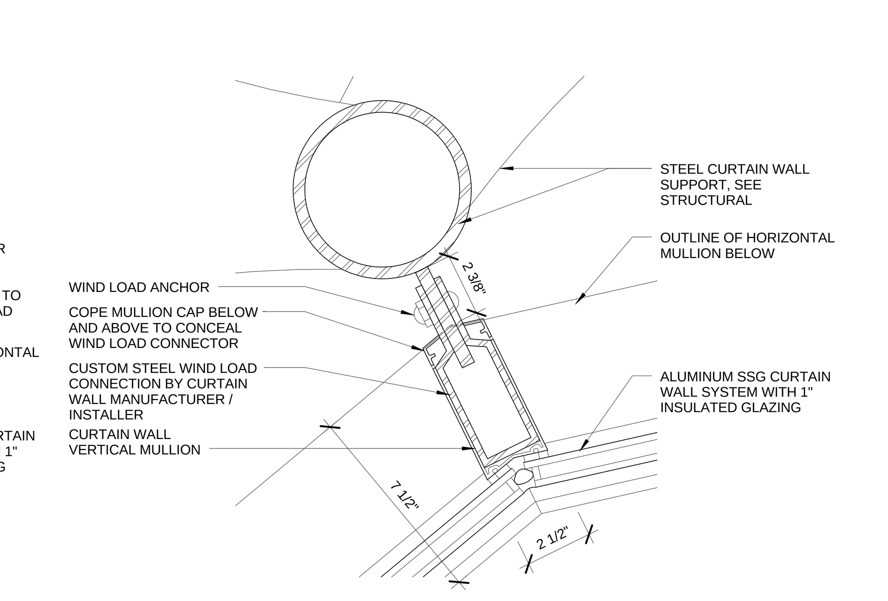
F1 CURTAIN WALL SUPPORT AT VERTICAL OUTSIDE MULLION AT VESTIBULE ROOF
3" = 1'-0"



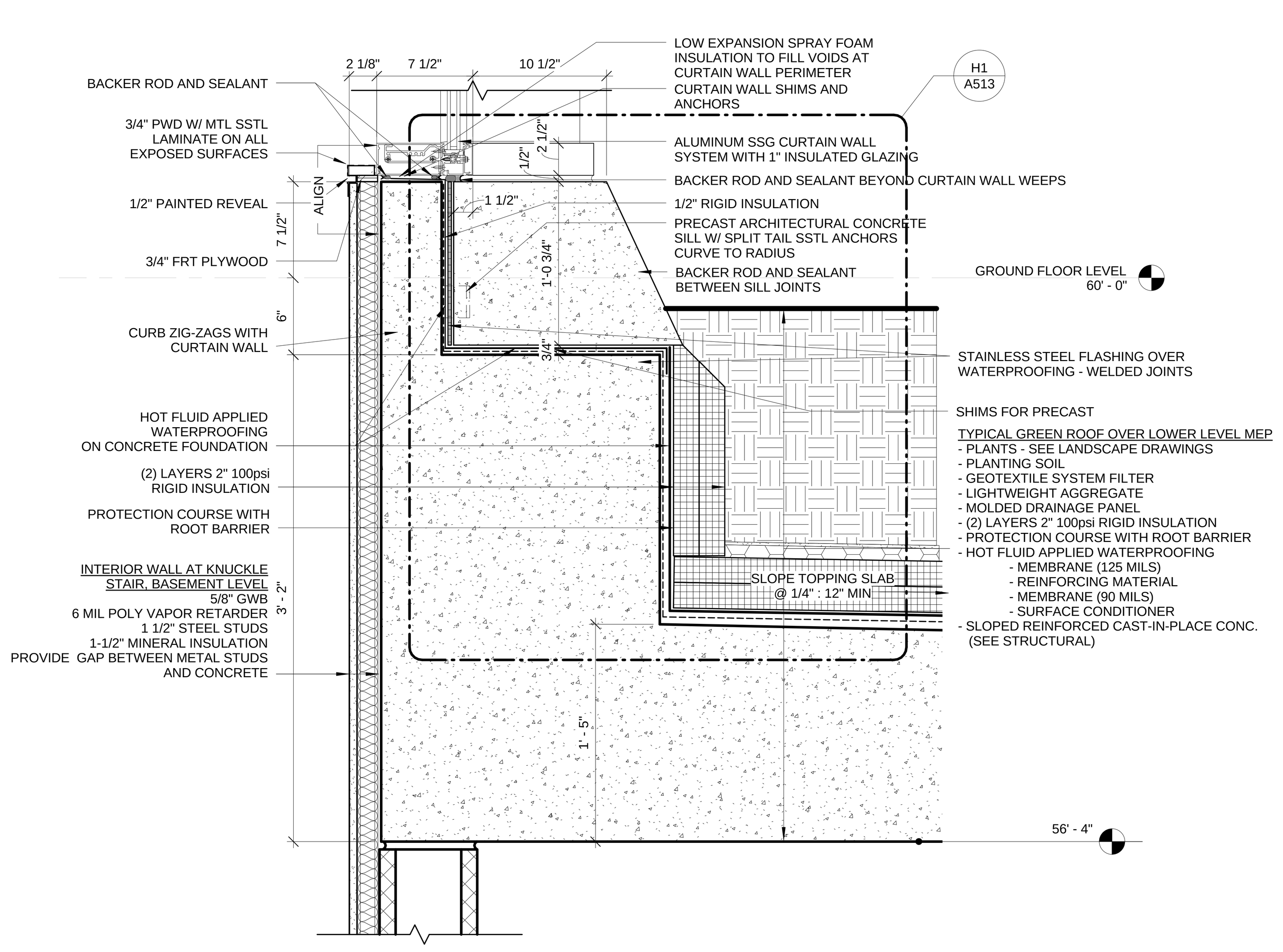
F3 CURTAIN WALL SUPPORT AT VERTICAL INSIDE MULLION AT VESTIBULE ROOF
3" = 1'-0"



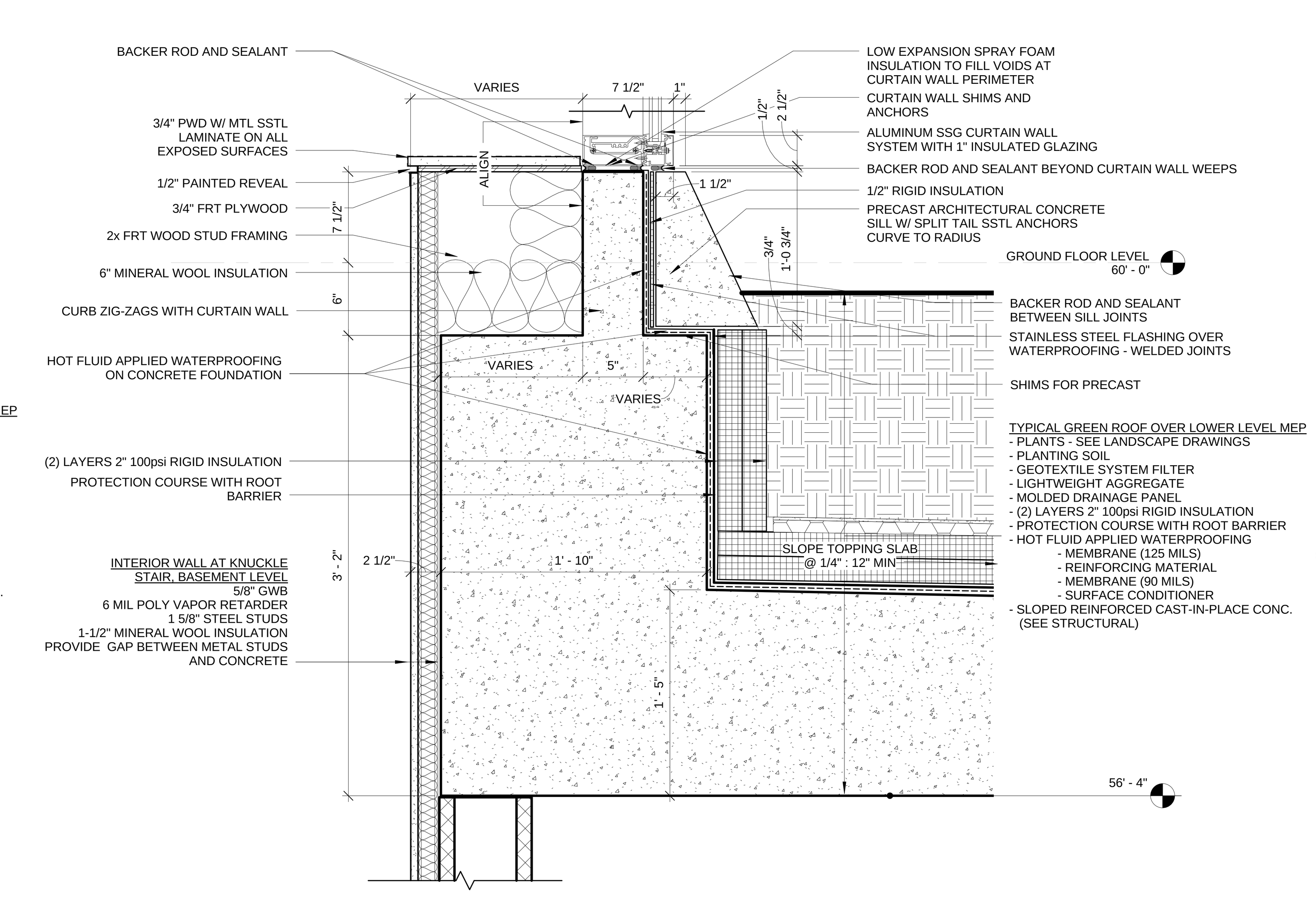
J1 CURTAIN WALL SUPPORT AT VERTICAL OUTSIDE CORNER MULLION
3" = 1'-0"



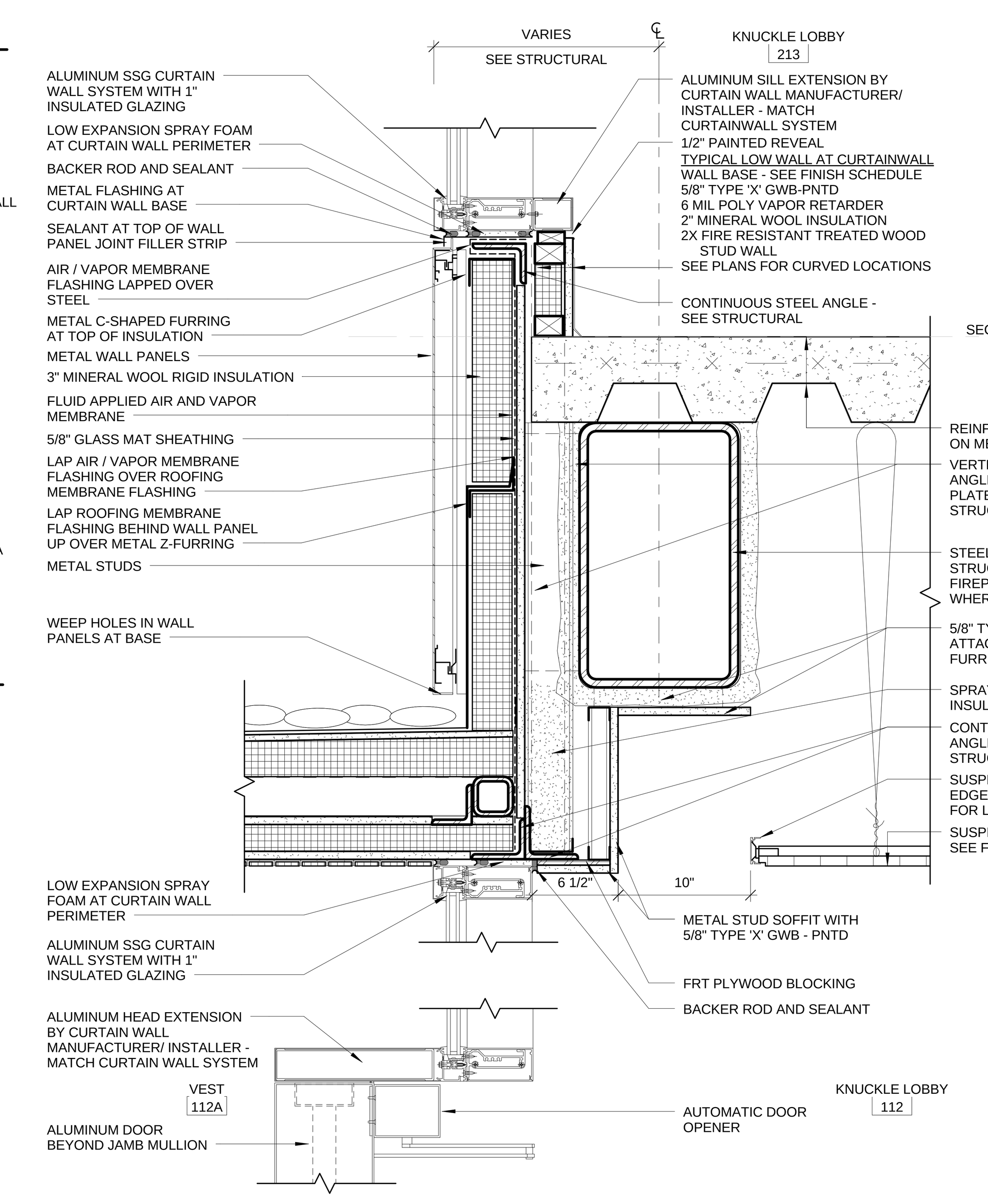
J3 CURTAIN WALL SUPPORT AT VERTICAL INSIDE CORNER MULLION
3" = 1'-0"



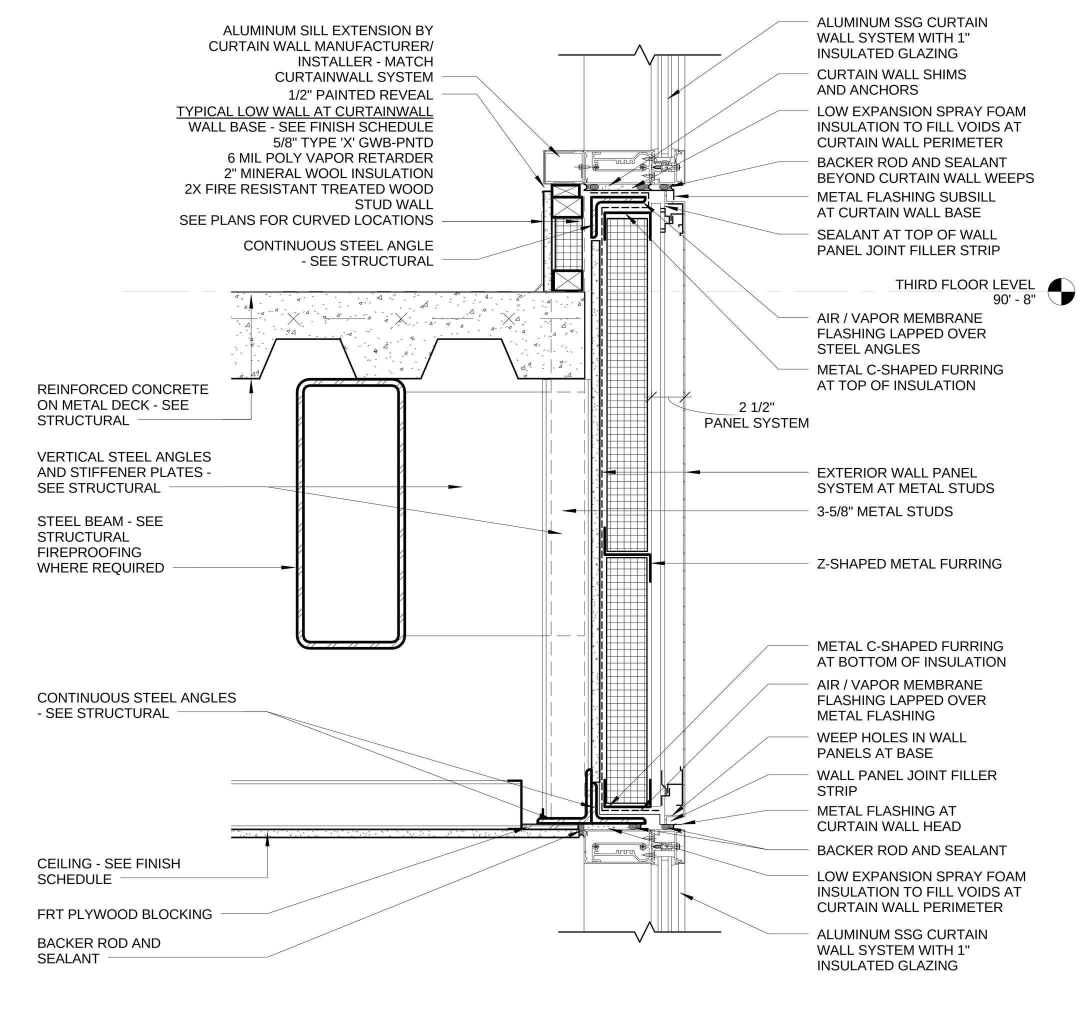
M1 CURTAIN WALL SILL AT NORTH SIDE OF KNUCKLE 1
1 1/2" = 1'-0"



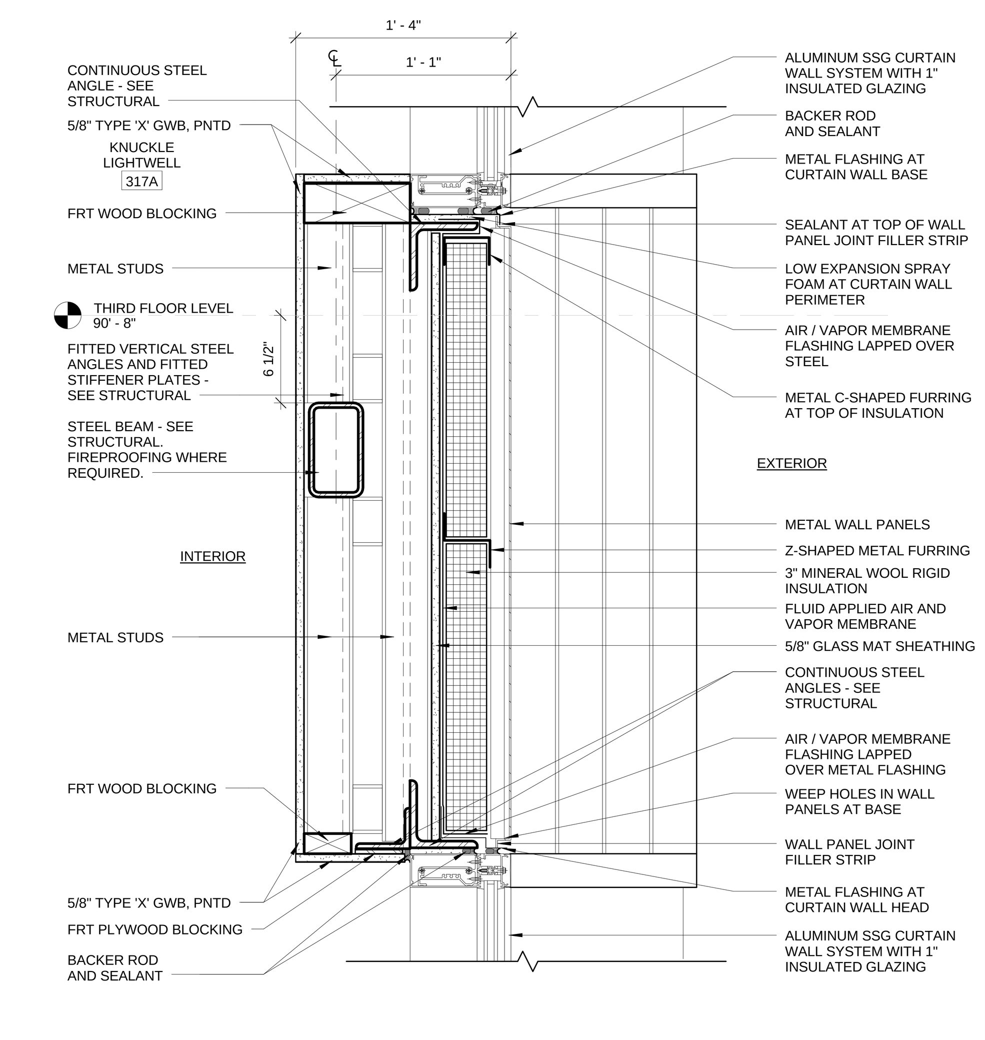
M5 CURTAIN WALL SILL AT NORTH SIDE OF KNUCKLE 2
1 1/2" = 1'-0"



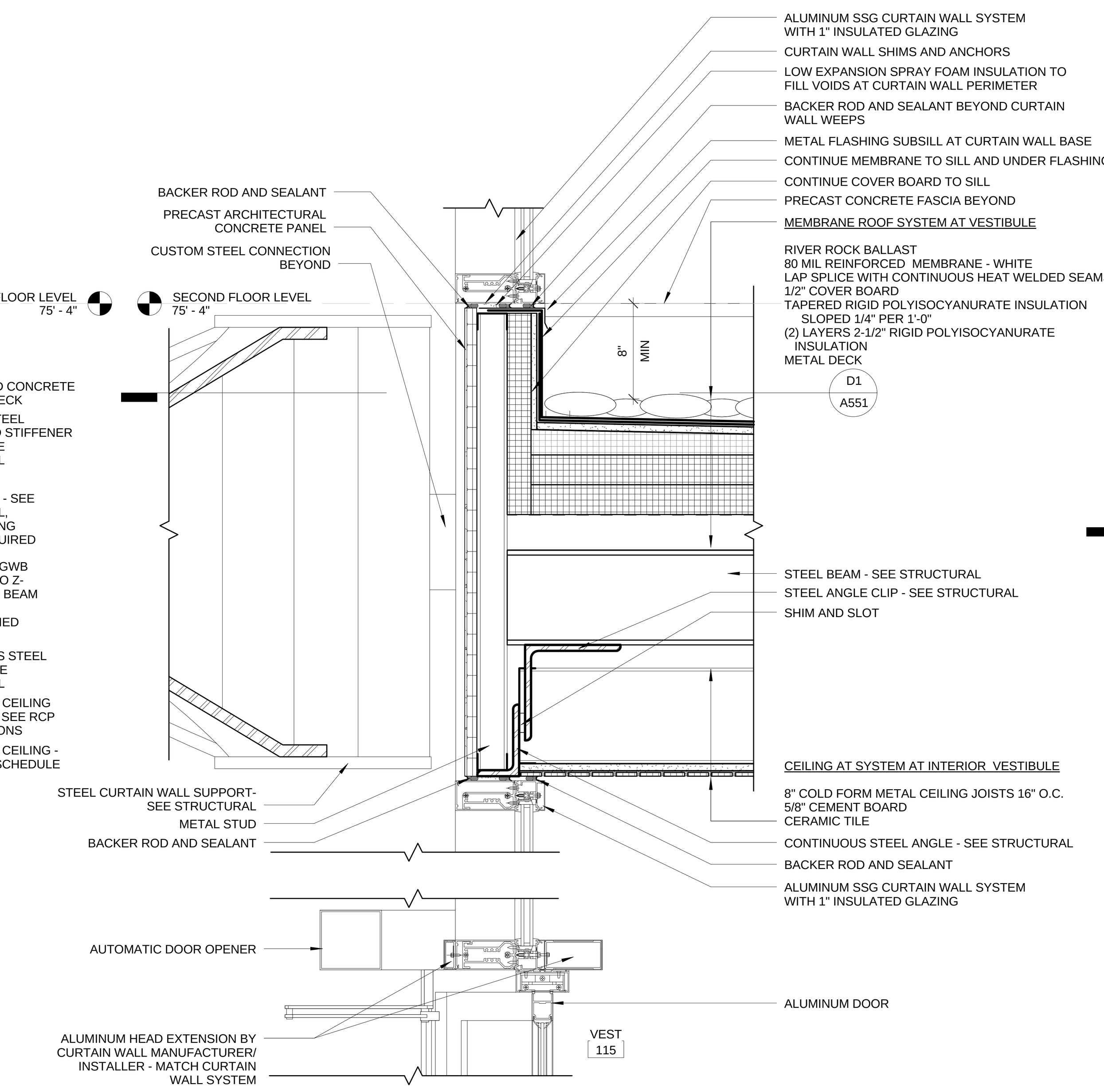
H6 CURTAIN WALL DETAIL AT KNUCKLE VESTIBULE ROOF - SOUTH SIDE
1 1/2" = 1'-0"



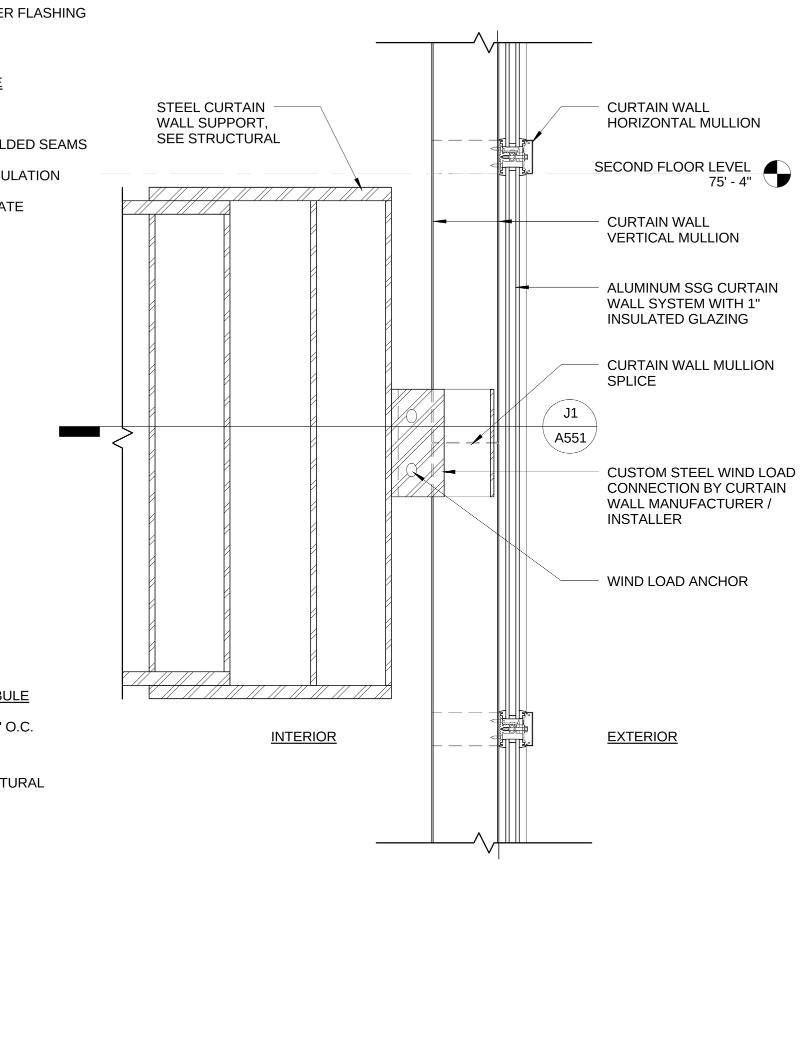
D9 CURTAIN WALL DETAIL AT 3RD FLOOR KNUCKLE CONFERENCE ROOM
1 1/2" = 1'-0"



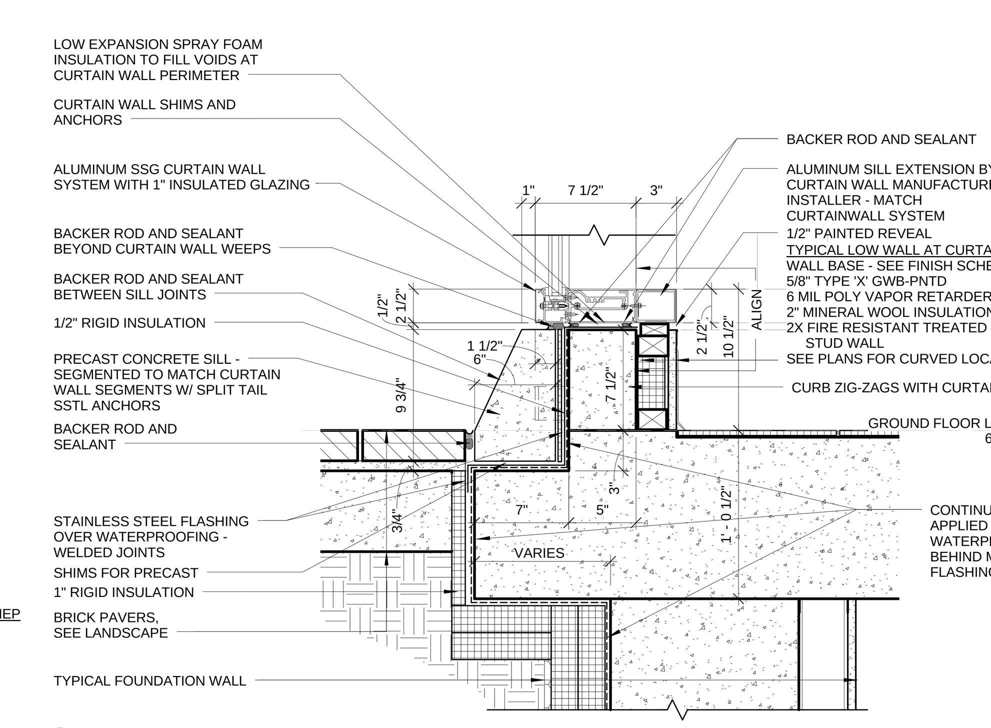
D13 CURTAIN WALL DETAIL AT 3RD FLOOR KNUCKLE LIGHTWELL
1 1/2" = 1'-0"



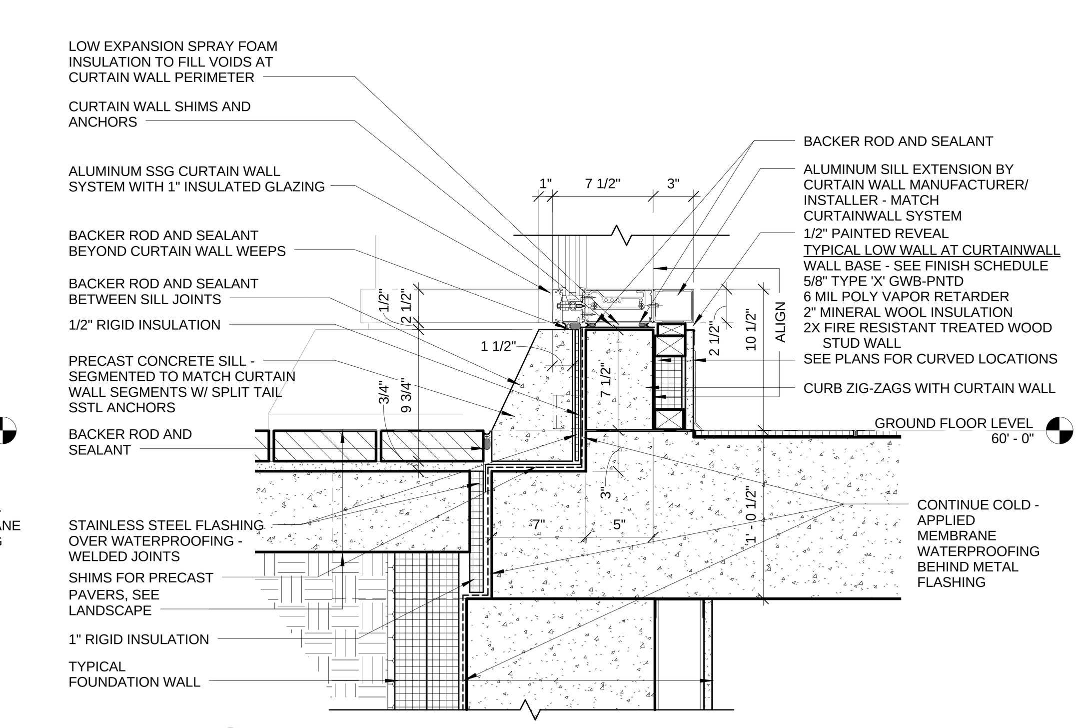
H9 CURTAIN WALL DETAIL AT KNUCKLE VESTBULE ROOF - NORTH SIDE
1 1/2" = 1'-0"



H13 VERTICAL MULLION SECTION DETAIL AT CURTAIN WALL SUPPORT
1 1/2" = 1'-0"



L9 CURTAIN WALL SILL AT SOUTH SIDE OF KNUCKLE 1
1 1/2" = 1'-0"



L13 CURTAIN WALL SILL AT SOUTH SIDE OF KNUCKLE 2
1 1/2" = 1'-0"

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drawing title: CURTAIN WALL DETAILS

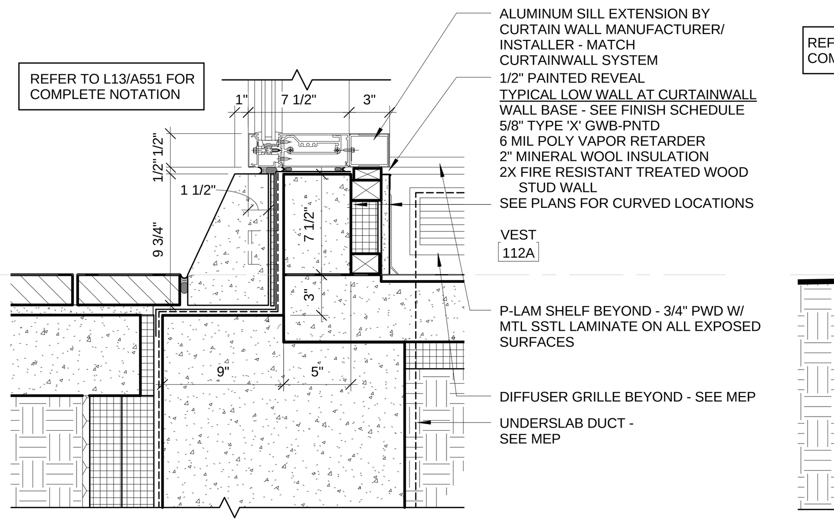
STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

mark	date	description
	11-21-2012	Bid Documents

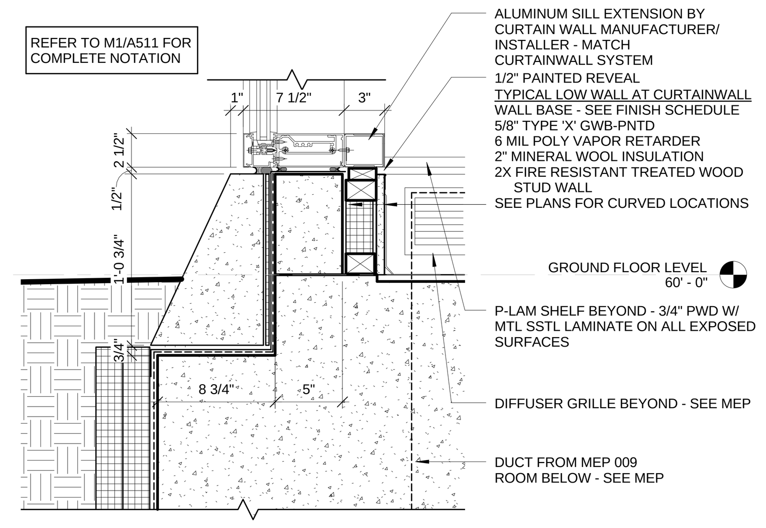
DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

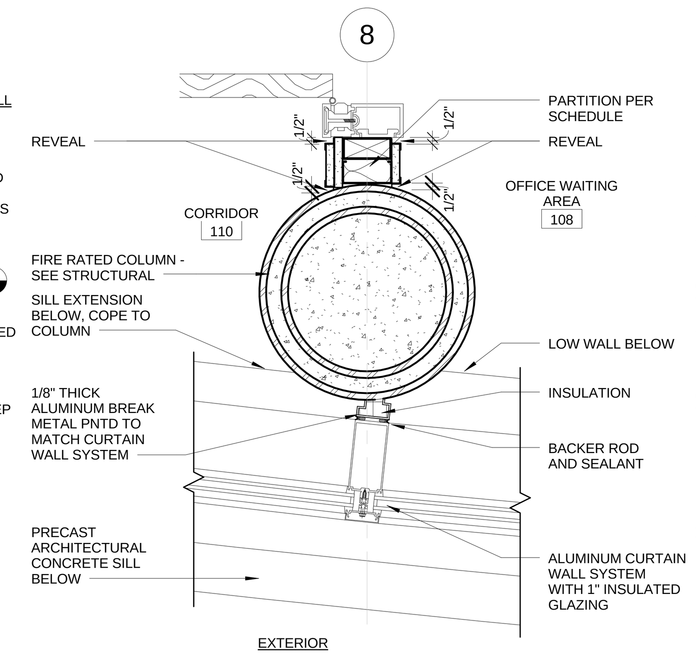
volume: 1 of 2
date: 11-21-2012
scale: As indicated
drawn by: LT/AS
approved by: RM/JBR
CAD no.: 1393
project no.: BI-RS-283
drawing no.: A551



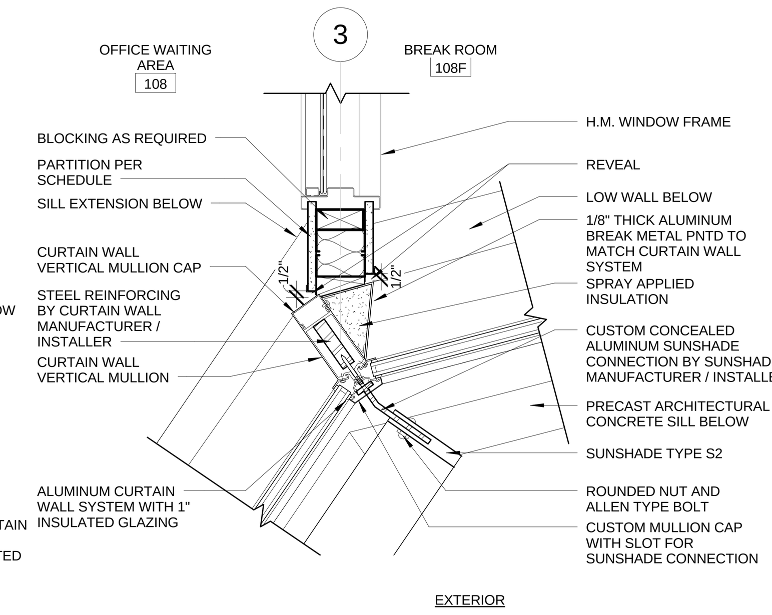
B1 CURTAIN WALL SILL AT VEST 112A
1 1/2" = 1'-0"



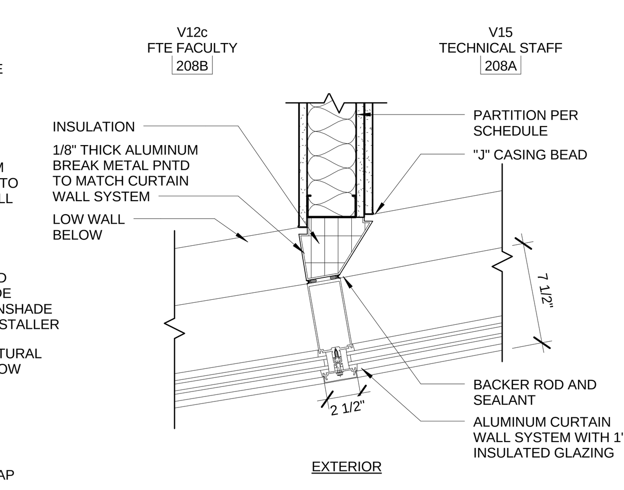
B3 CURTAIN WALL SILL AT VEST 115
1 1/2" = 1'-0"



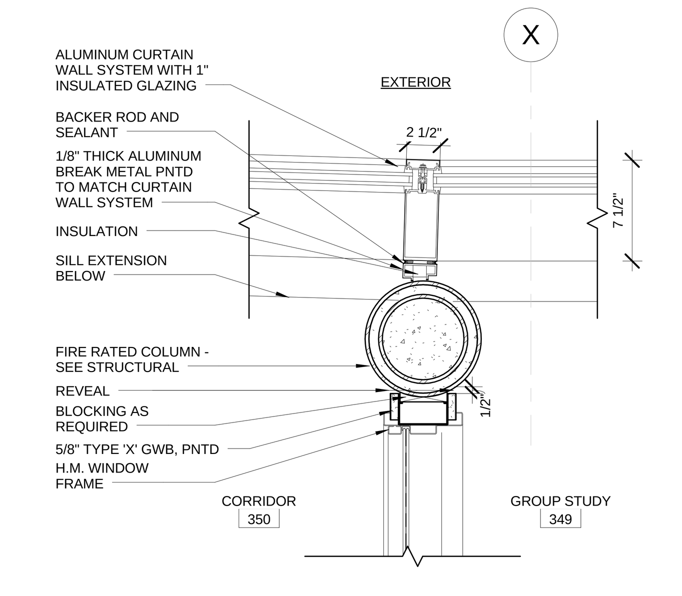
C6 VERTICAL MULLION AT RATED COLUMN & PARTITION
1 1/2" = 1'-0"



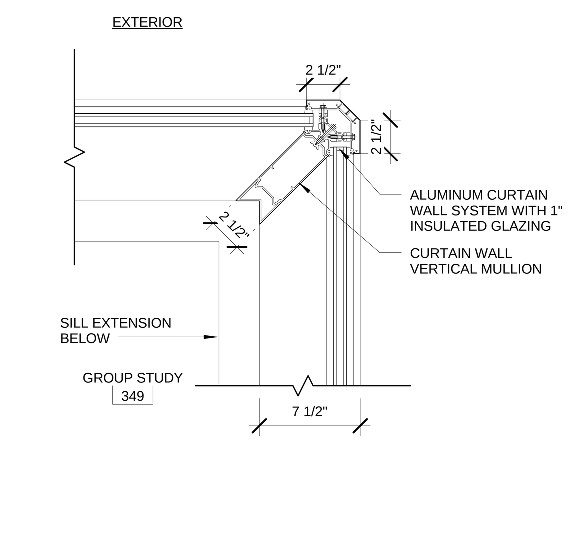
C8 VERTICAL MULLION AND STOREFRONT CONNECTION - NORTH WING
1 1/2" = 1'-0"



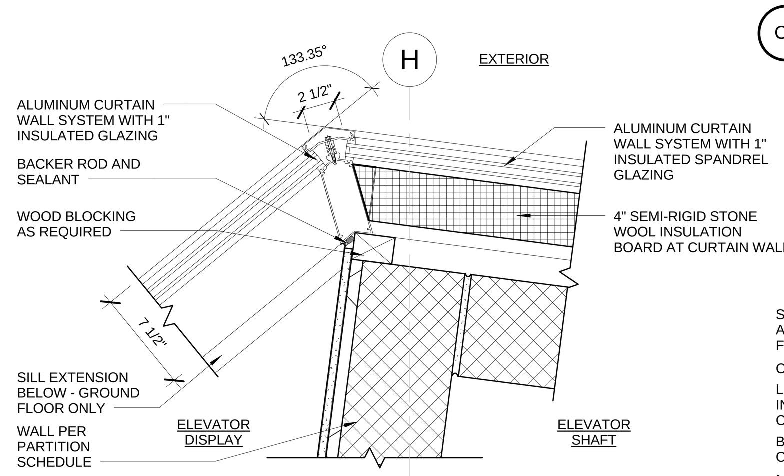
C10 VERTICAL MULLION AND PARTITION, TYP.
1 1/2" = 1'-0"



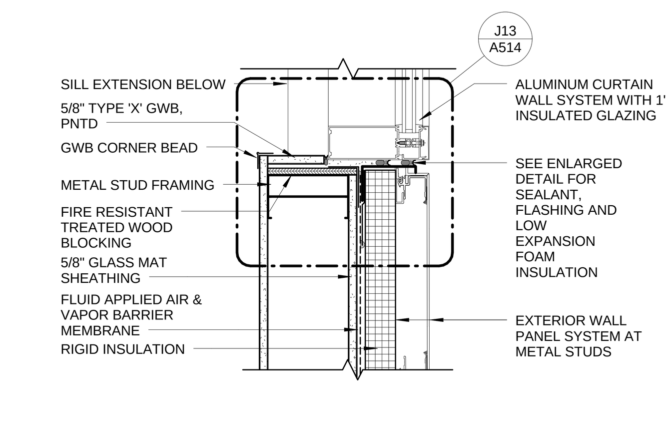
C12 VERTICAL MULLION & STOREFRONT CONNECTION - SOUTH WING
1 1/2" = 1'-0"



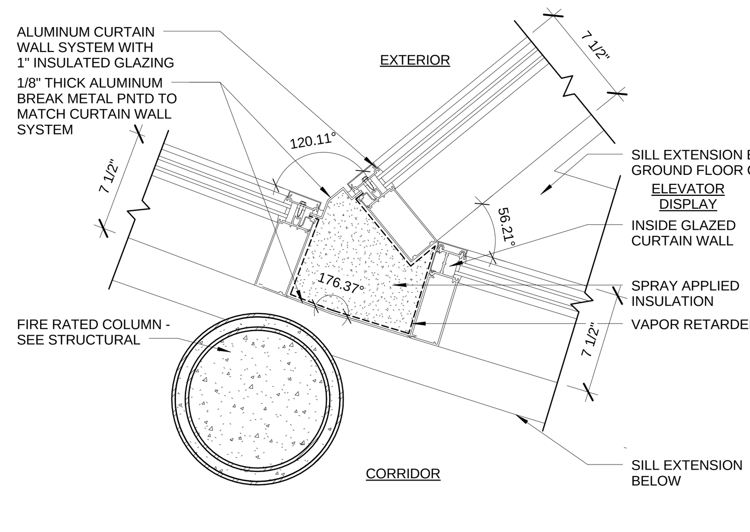
C14 VERTICAL CORNER MULLION
1 1/2" = 1'-0"



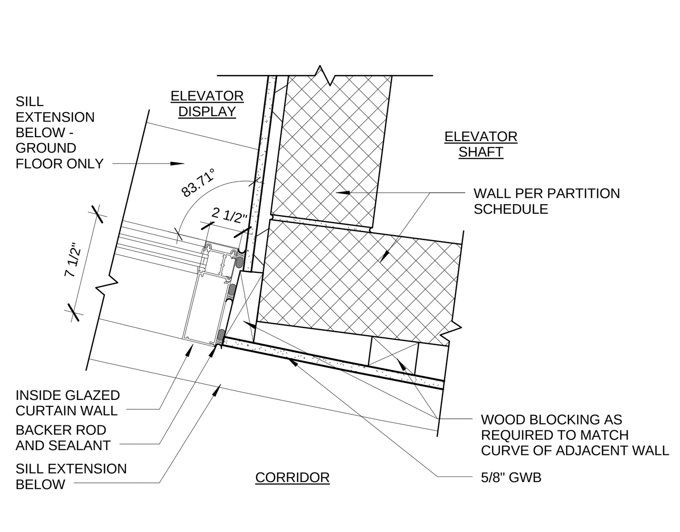
D4 VERTICAL OUTSIDE CORNER MULLION AT ELEVATOR BAY
1 1/2" = 1'-0"



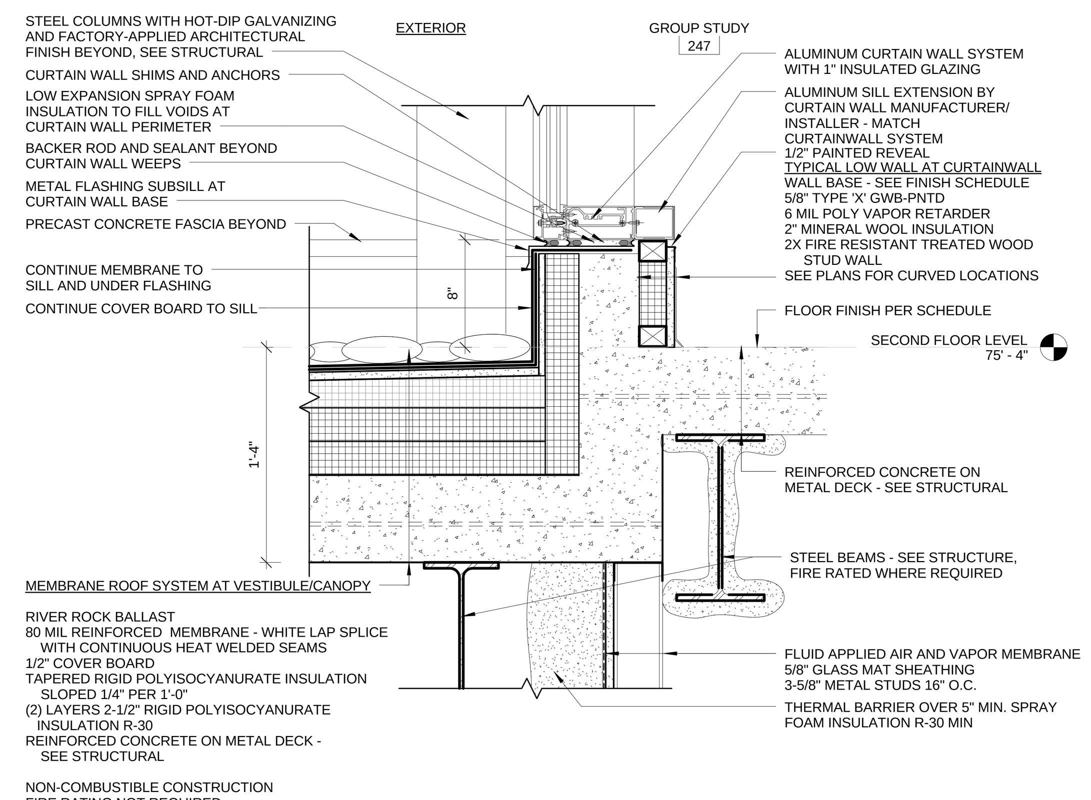
D14 VERTICAL MULLION AT METAL WALL PANEL
1 1/2" = 1'-0"



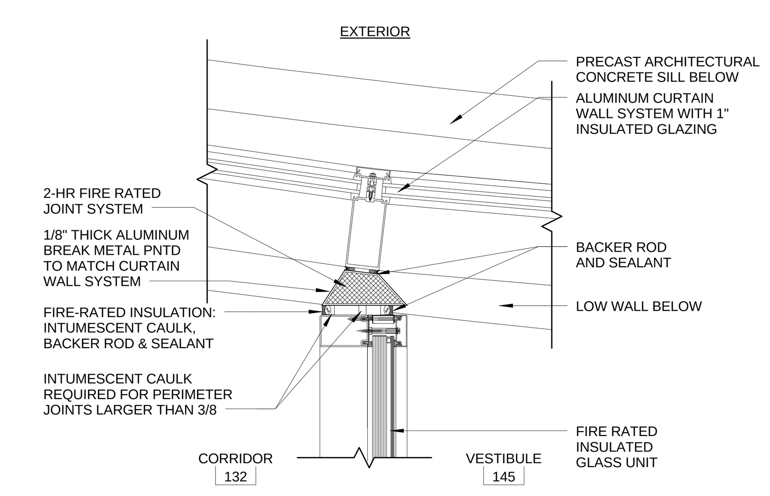
F1 VERTICAL INSIDE MULLION AT ELEVATOR BAY
1 1/2" = 1'-0"



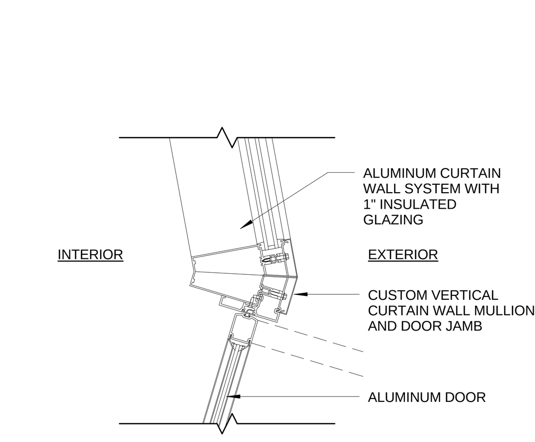
F4 VERTICAL MULLION AT ELEVATOR SHAFT
1 1/2" = 1'-0"



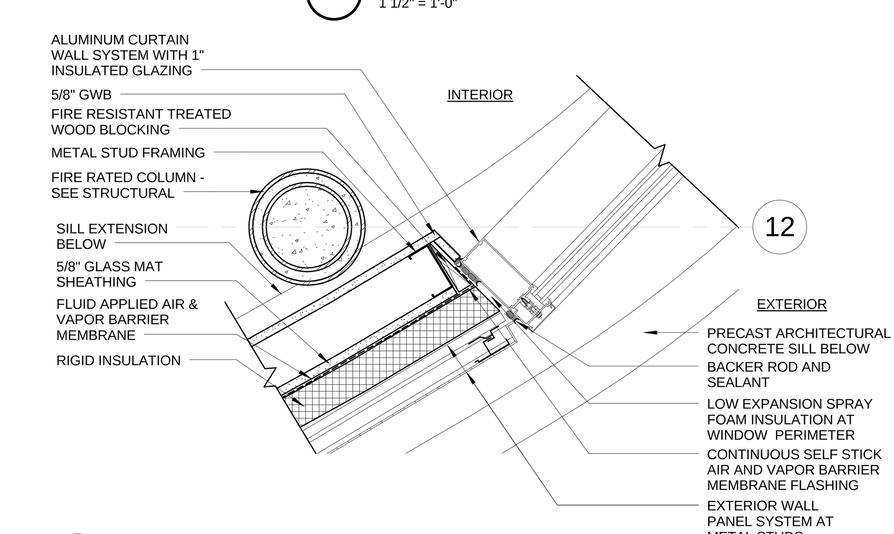
F6 CURTAIN WALL SILL DETAIL AT SOUTH CANOPY
1 1/2" = 1'-0"



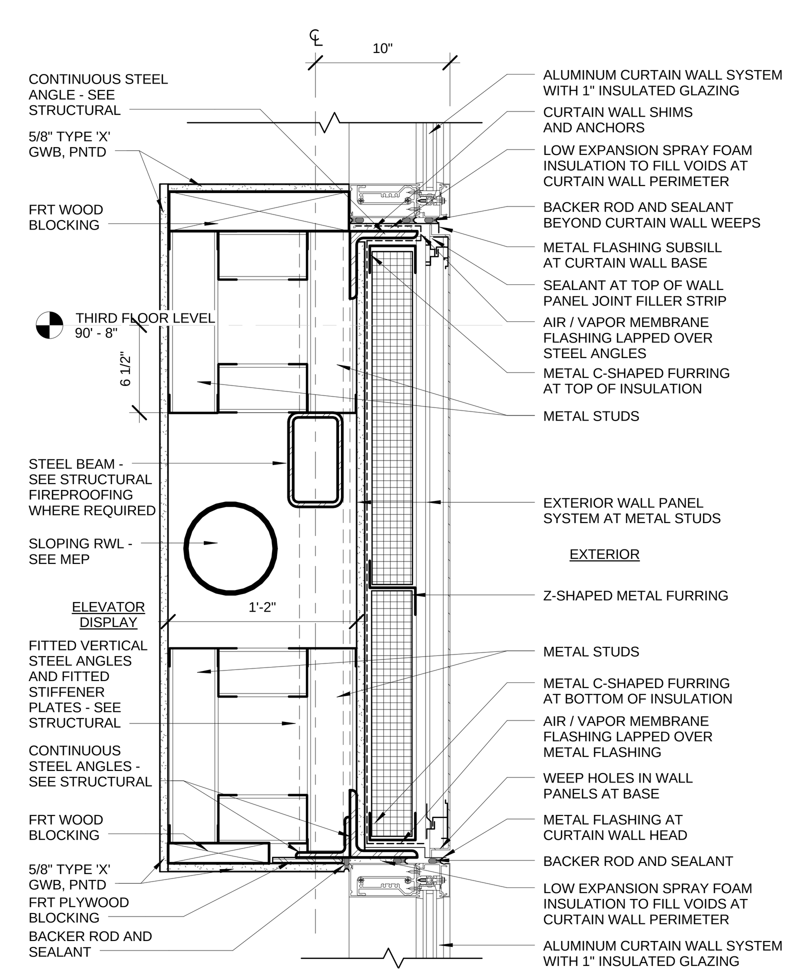
F12 FIRE RATED VERTICAL MULLION CONNECTION AT VEST 145
1 1/2" = 1'-0"



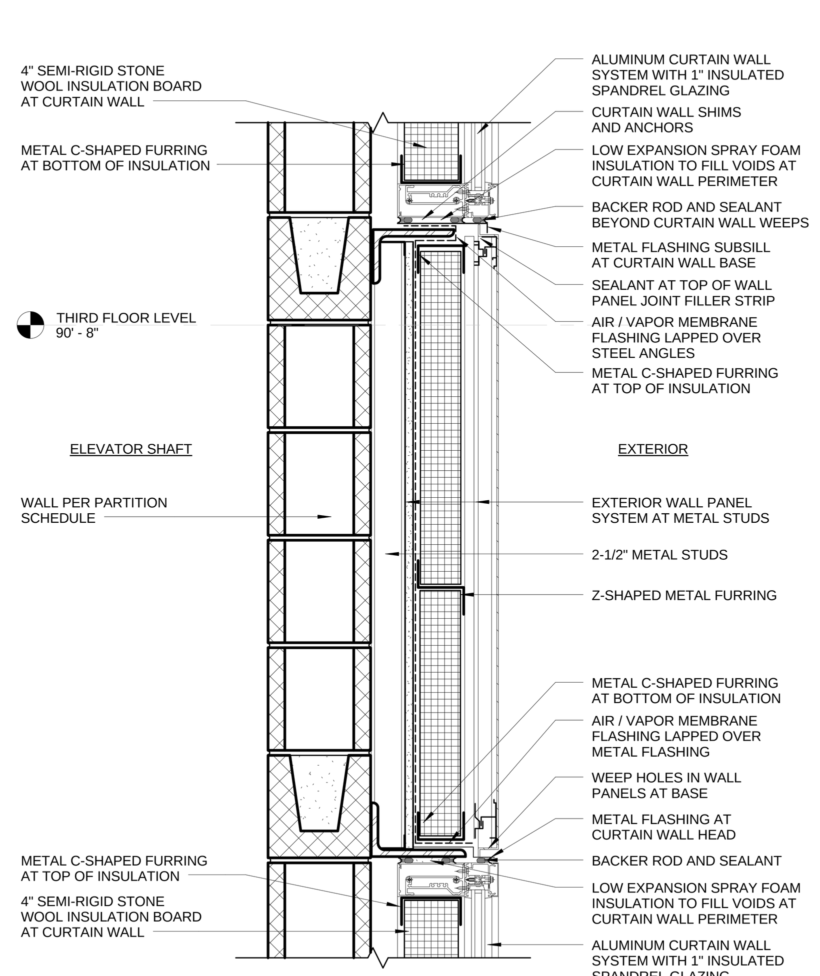
F14 VERTICAL DOOR MULLION/JAMB AT VESTIBULE 145
1 1/2" = 1'-0"



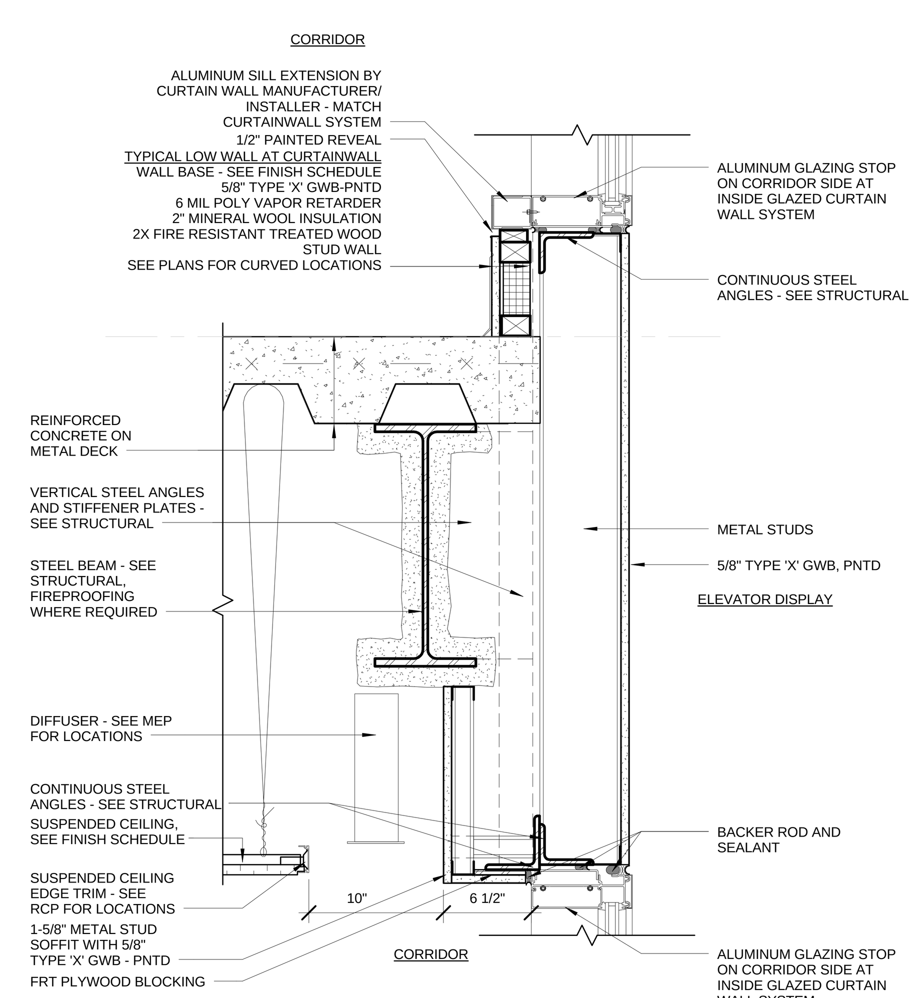
H13 VERTICAL MULLION AT METAL WALL PANEL AT VESTIBULE 145
1 1/2" = 1'-0"



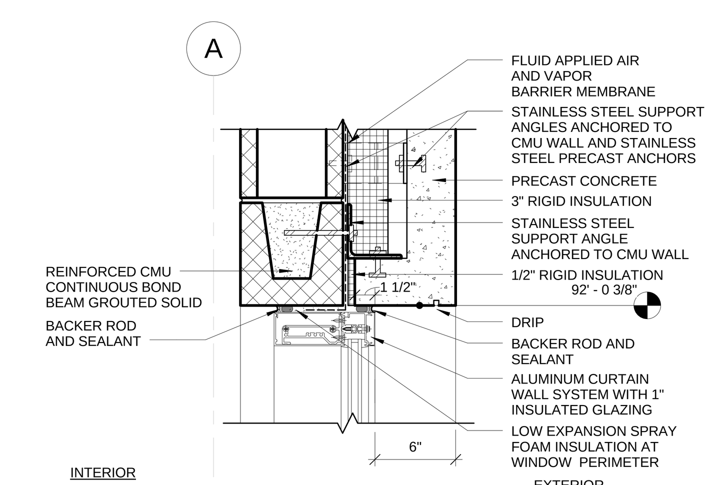
K1 CURTAIN WALL AT ELEVATOR DISPLAY LEVEL CHANGE - EXTERIOR
1 1/2" = 1'-0"



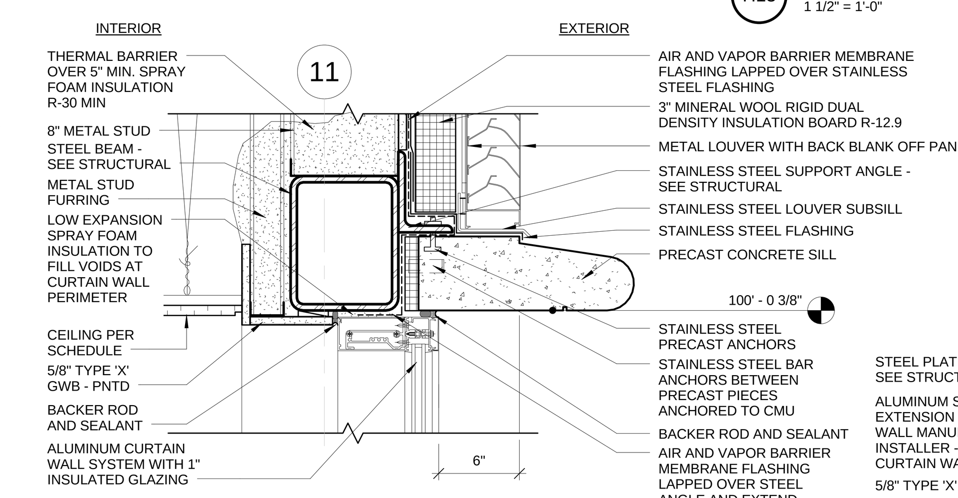
K3 CURTAIN WALL AT ELEVATOR LEVEL CHANGE
1 1/2" = 1'-0"



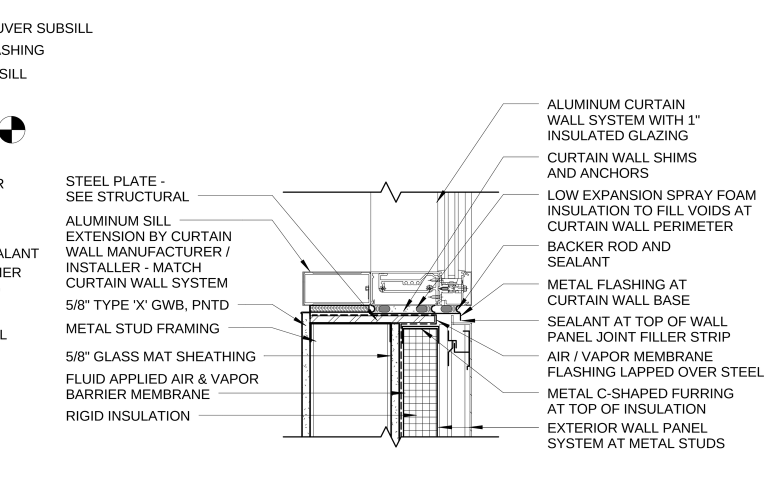
K6 CURTAIN WALL AT ELEVATOR DISPLAY LEVEL CHANGE
1 1/2" = 1'-0"



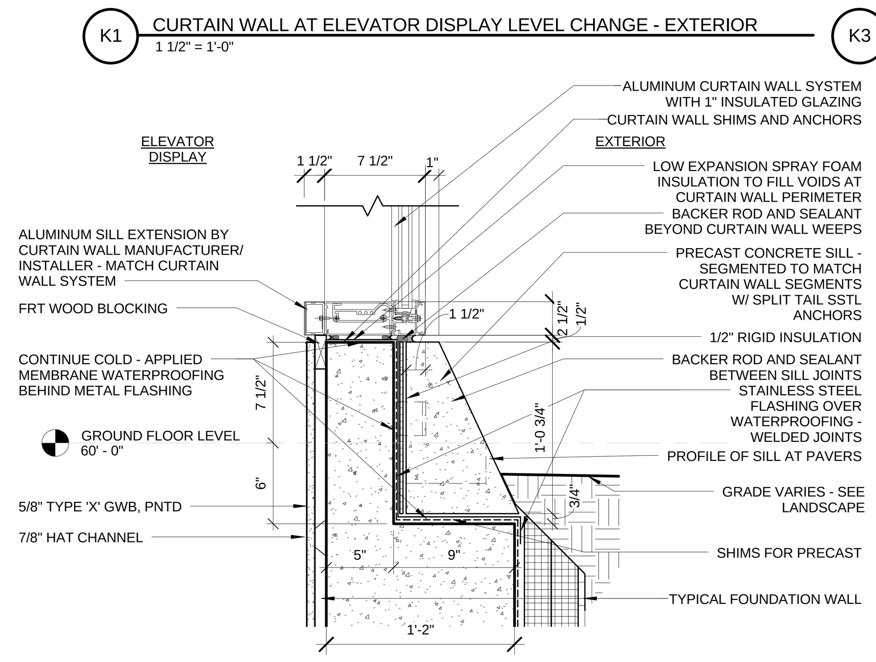
K9 CURTAIN WALL HEAD DETAIL AT TYPICAL CAVITY WALL
1 1/2" = 1'-0"



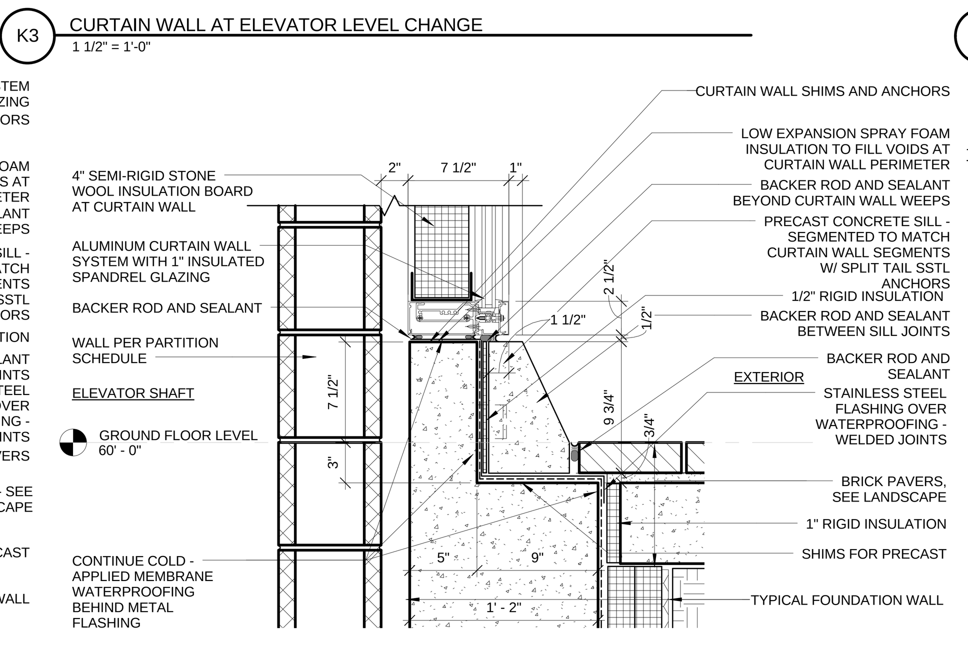
K11 CURTAIN WALL HEAD DETAIL AT PRECAST FASCIA
1 1/2" = 1'-0"



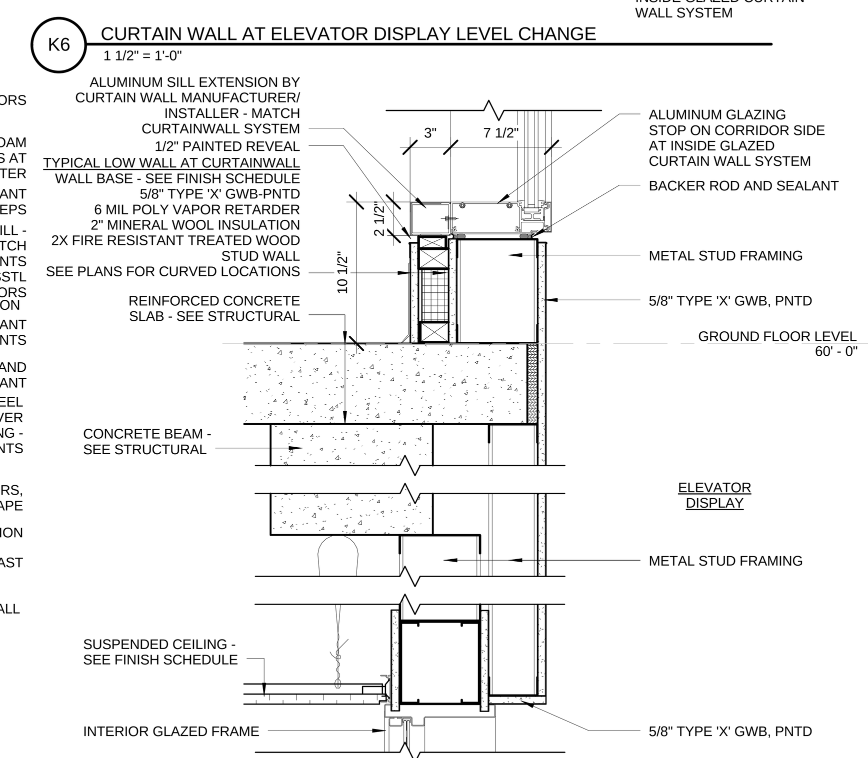
L14 CURTAIN WALL SILL AT WALL PANEL SYSTEM
1 1/2" = 1'-0"



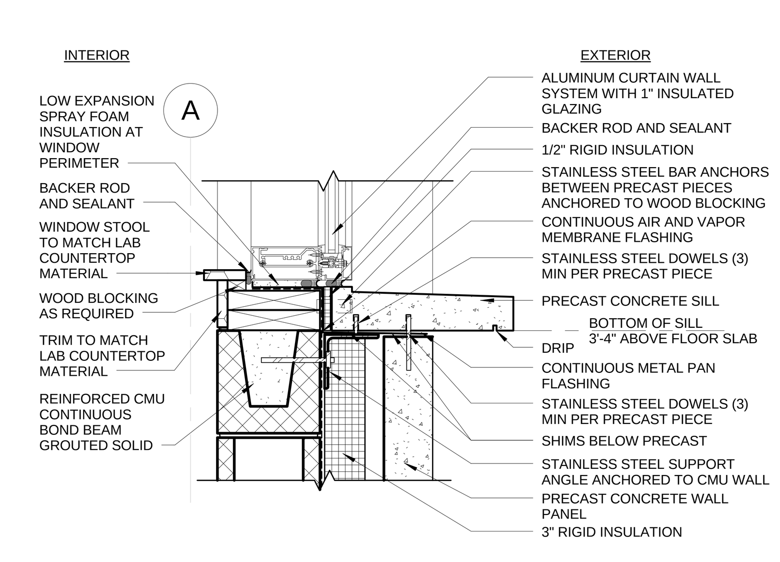
M1 CURTAIN WALL SILL AT ELEVATOR DISPLAY - EXTERIOR
1 1/2" = 1'-0"



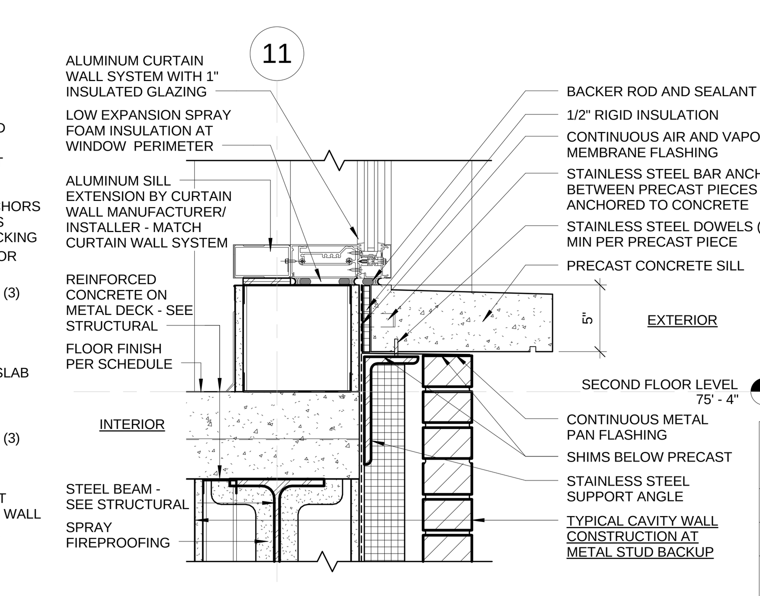
M3 CURTAIN WALL SILL AT ELEVATOR SHAFT
1 1/2" = 1'-0"



M6 CURTAIN WALL SILL AT ELEVATOR DISPLAY
1 1/2" = 1'-0"



M9 CURTAIN WALL SILL DETAIL AT TYPICAL CAVITY WALL
1 1/2" = 1'-0"



M11 CURTAIN WALL SILL DETAIL AT FLOOR LEVEL
1 1/2" = 1'-0"

drawing title	CURTAIN WALL DETAILS
REVISIONS	
mark / date / description	11-21-2012 Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

volume 1 of 2
date 11-21-2012
scale 1 1/2" = 1'-0"
drawn by LT
approved by RM/JBR
drawing no. A552

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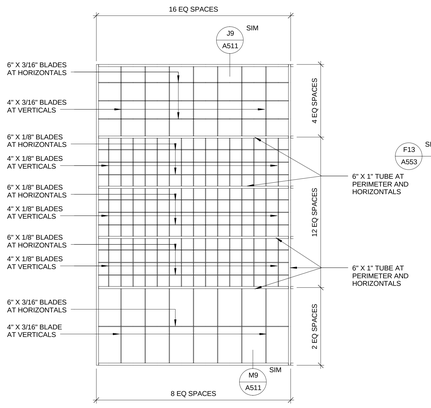
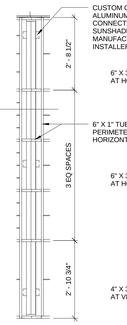
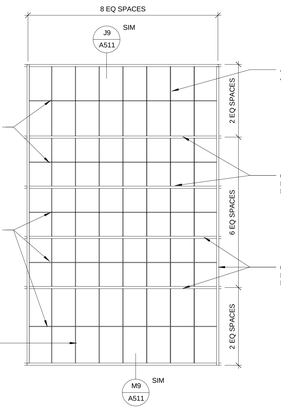


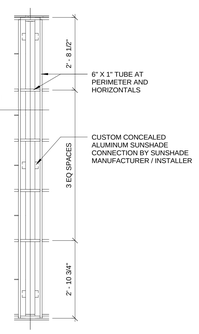
D6 TYPICAL BAY WINDOW SUNSHADE ELEVATION TYPE S-2A
1/2" = 1'-0"



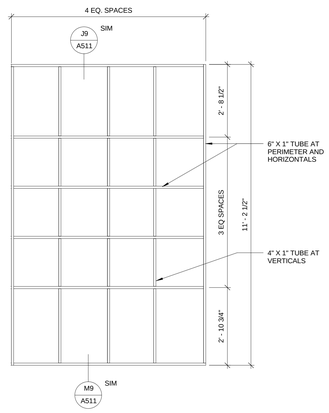
TYP. BAY WINDOW SUNSHADE CORNER ELEVATION BETWEEN S2-A & S2-B
D8 1/2" = 1'-0"



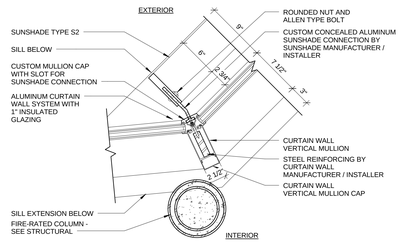
D10 TYPICAL BAY WINDOW SUNSHADE ELEVATION TYPE S-2B
1/2" = 1'-0"



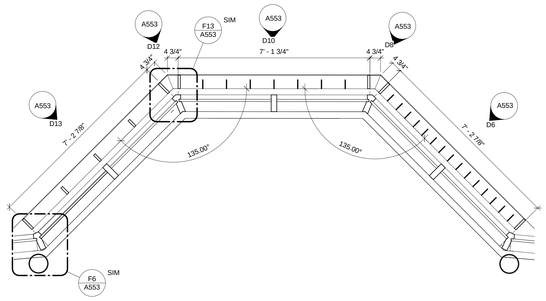
TYP. BAY WINDOW SUNSHADE CORNER ELEVATION BETWEEN S2-B & S2-C
D12 1/2" = 1'-0"



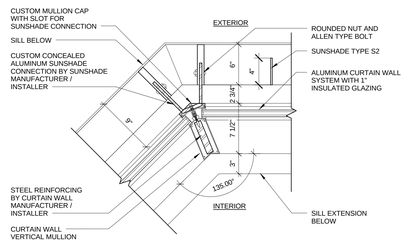
D13 TYPICAL BAY WINDOW SUNSHADE ELEVATION TYPE S-2C
1/2" = 1'-0"



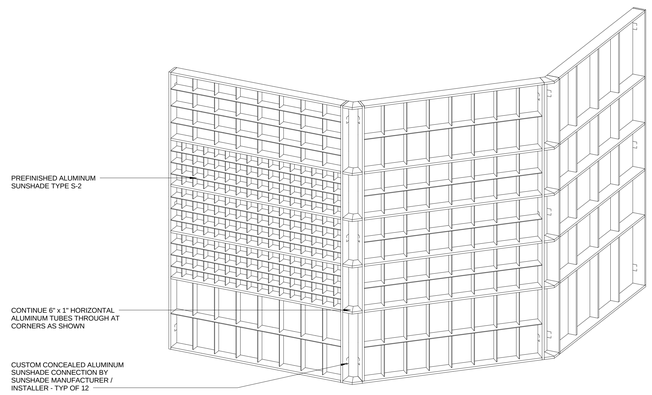
F6 VERTICAL INSIDE MULLION AT BAY
1 1/2" = 1'-0"



F8 TYPICAL BAY WINDOW SUNSHADE PLAN @ 2'-0" A.F.F.
1/2" = 1'-0"



F13 VERTICAL OUTSIDE CORNER MULLION AT BAY
1 1/2" = 1'-0"



K8 SUNSHADE TYPE S-2 3D VIEW

drawing title: CURTAIN WALL DETAILS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		sheet of: 1 of 2
REVISIONS			date: 11-21-2012
mark / date / description	DRAWING PREPARED BY **Centerbrook Architects and Planners, LLP** 67 Main Street Post Office Box 955 Centerbrook, Connecticut 06409-0955		scale: As indicated
11-21-2012 Bid Documents	project: SCSU NEW ACADEMIC LABORATORY BUILDING		drawn by: LT/AS
			checked by: RMJ/BR
	CAD no. 1393	project no. BI-RS-283	drawing no. A553

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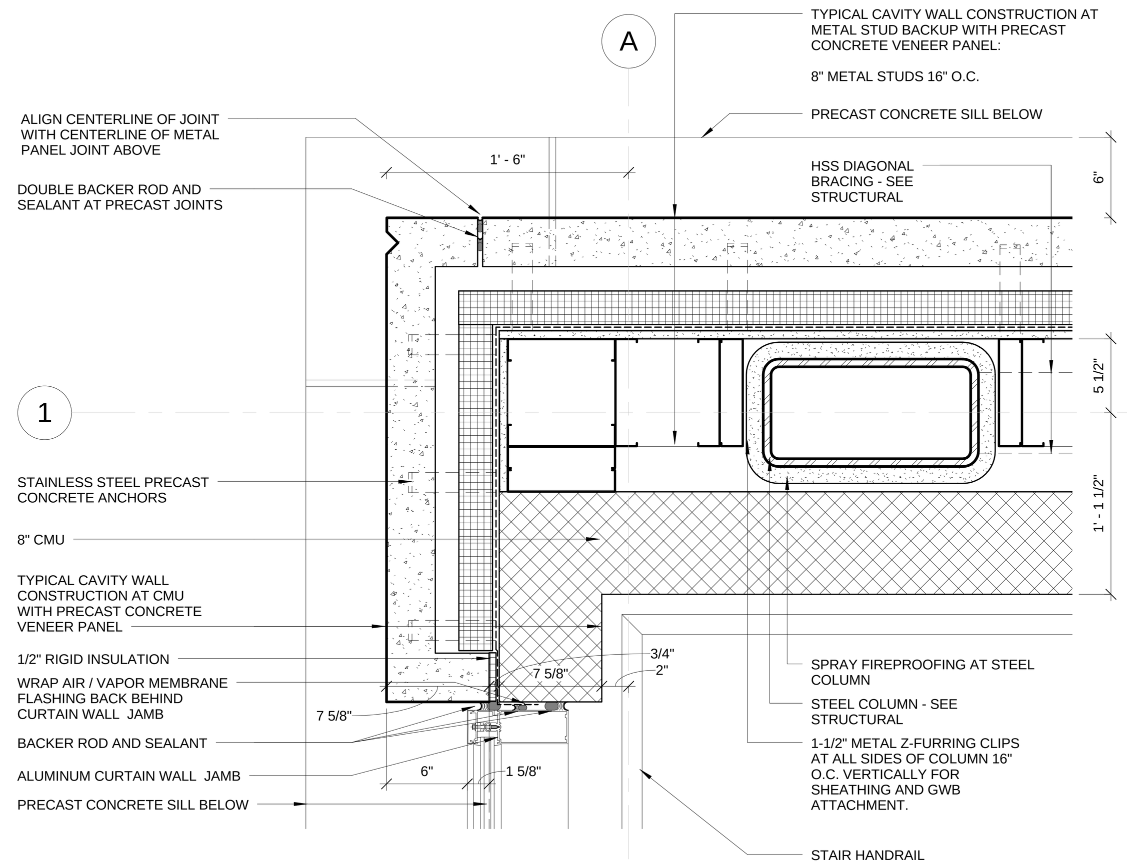
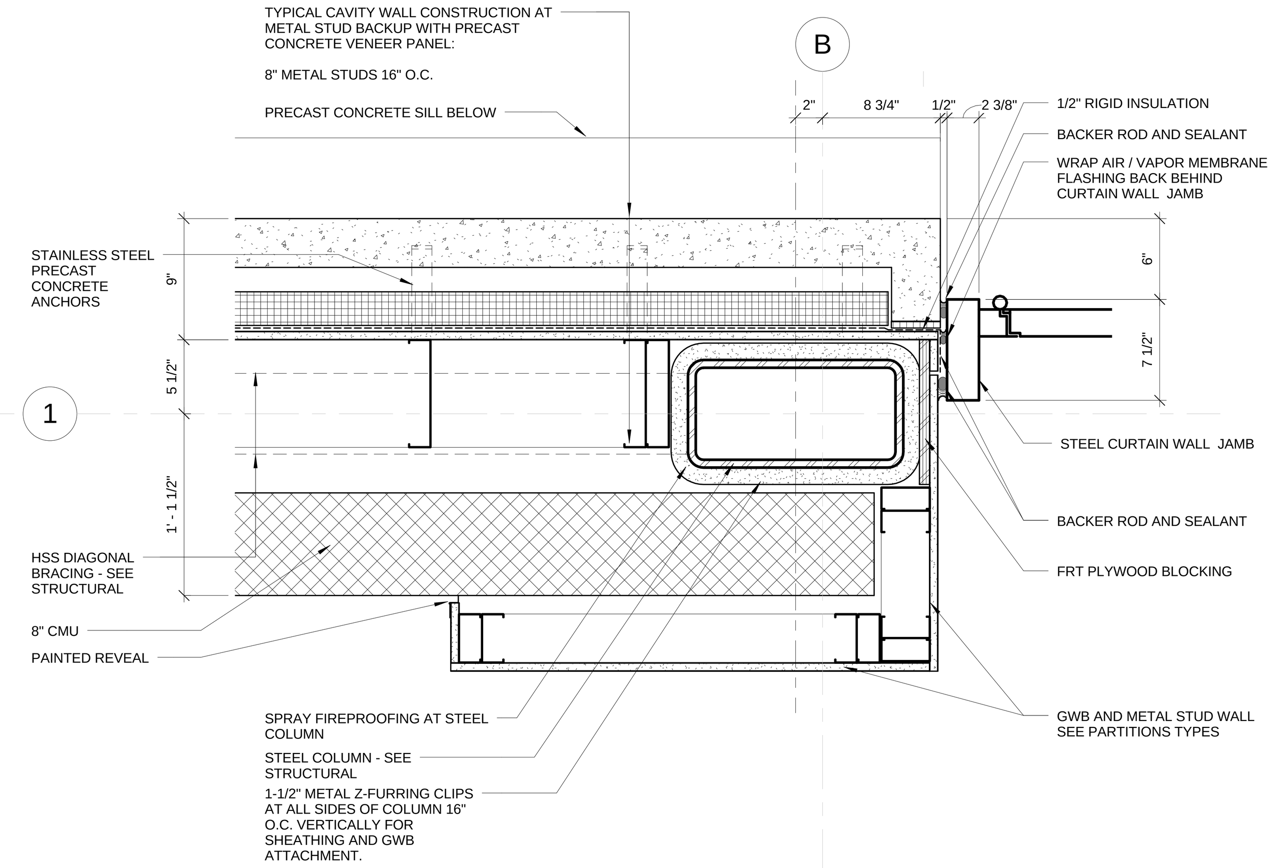
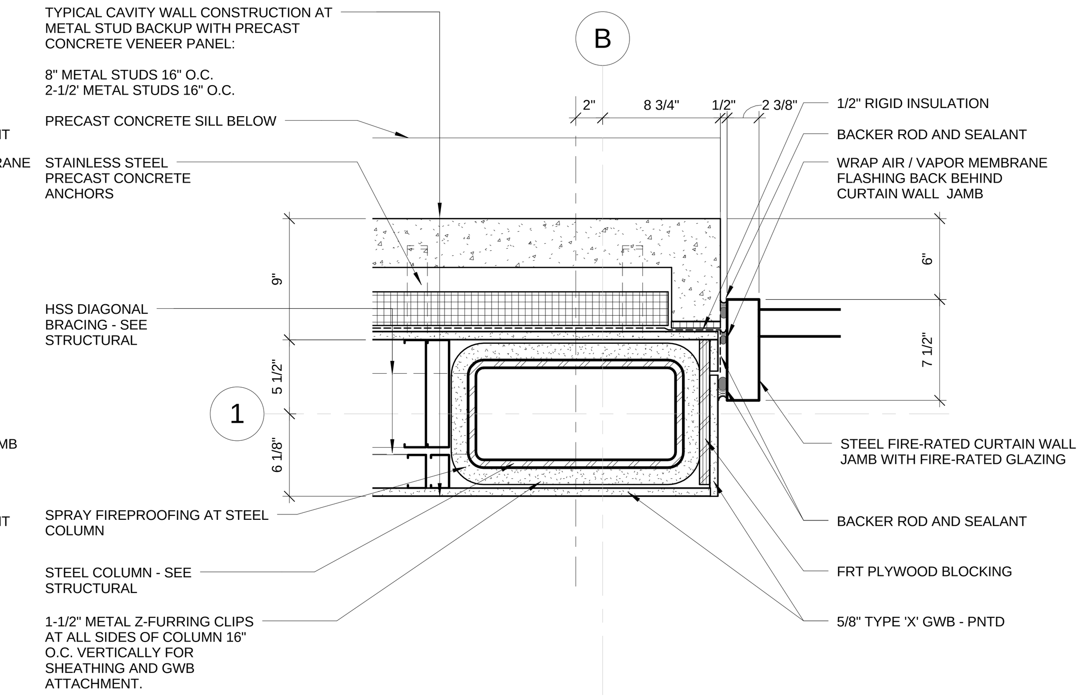


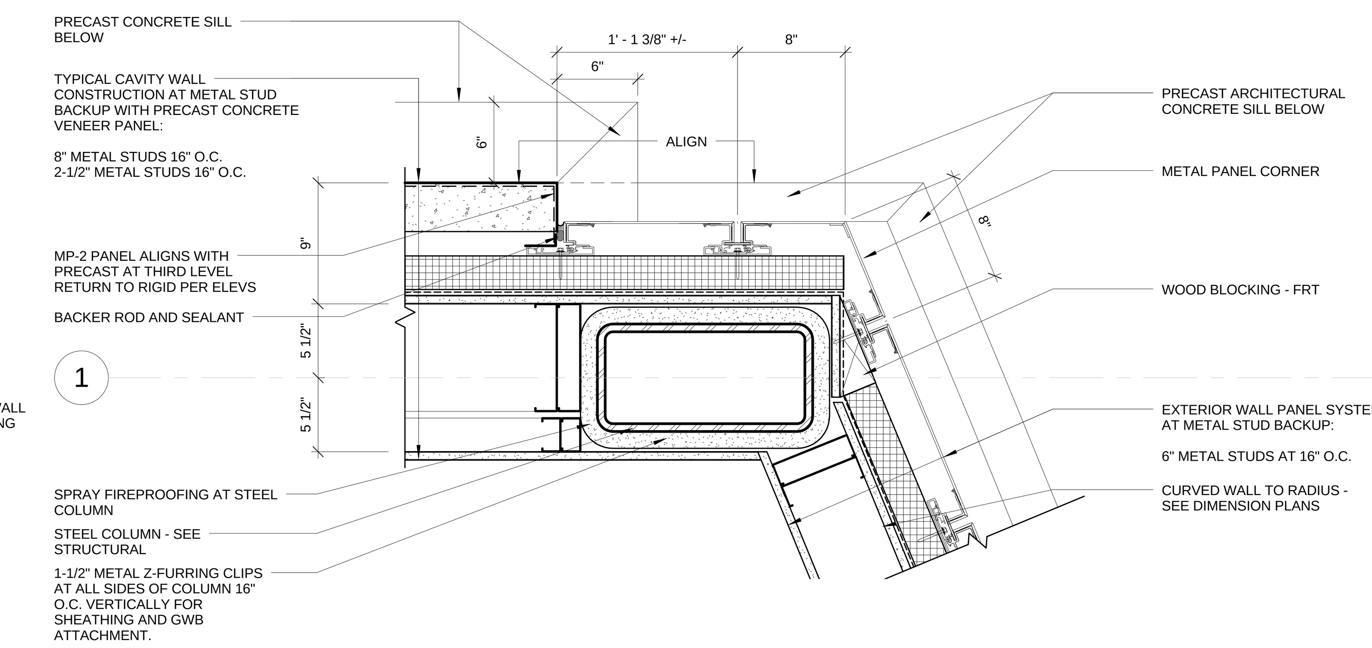
D1 PLAN DETAIL AT STAIR 1 EXTERIOR CORNER
1 1/2" = 1'-0"



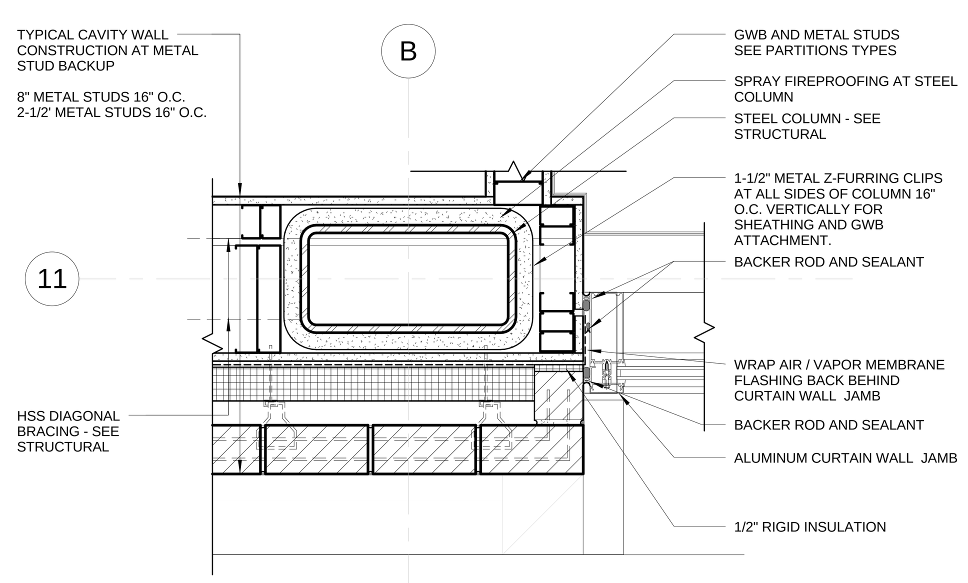
D4 PLAN DETAIL AT NORTH WING ENTRANCE
1 1/2" = 1'-0"



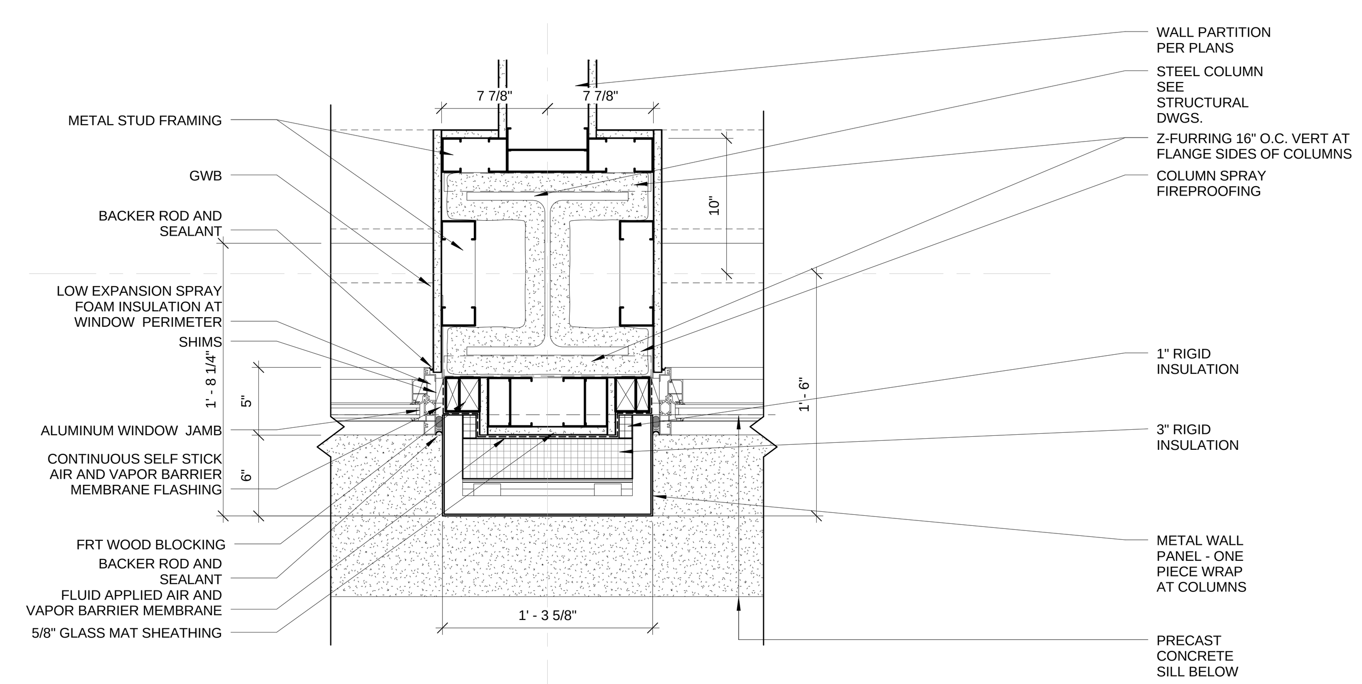
D8 PLAN DETAIL AT NORTH WING EAST END OPENING
1 1/2" = 1'-0"



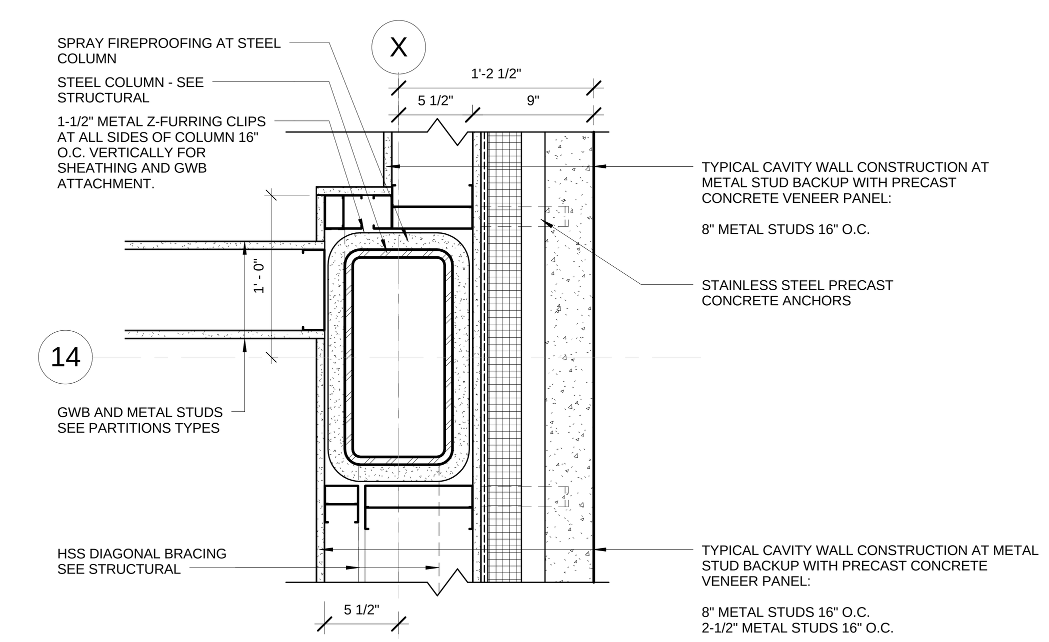
D11 PLAN DETAIL AT NORTH WING SE CORNER
1 1/2" = 1'-0"



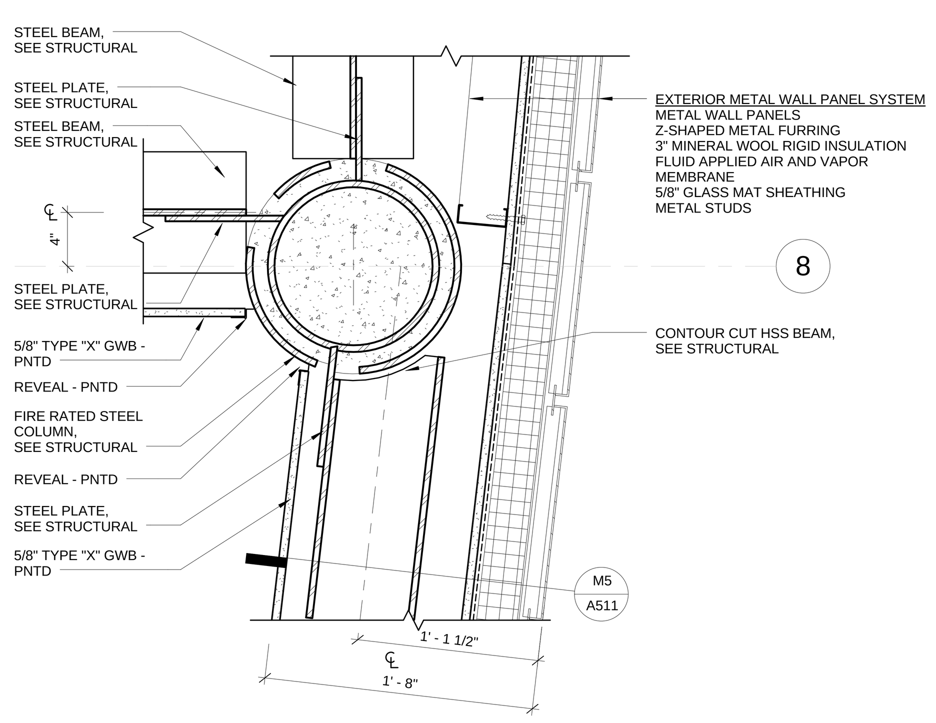
F1 COLUMN DETAIL AT NORTH WING WEST END CURTAIN WALL
1 1/2" = 1'-0"



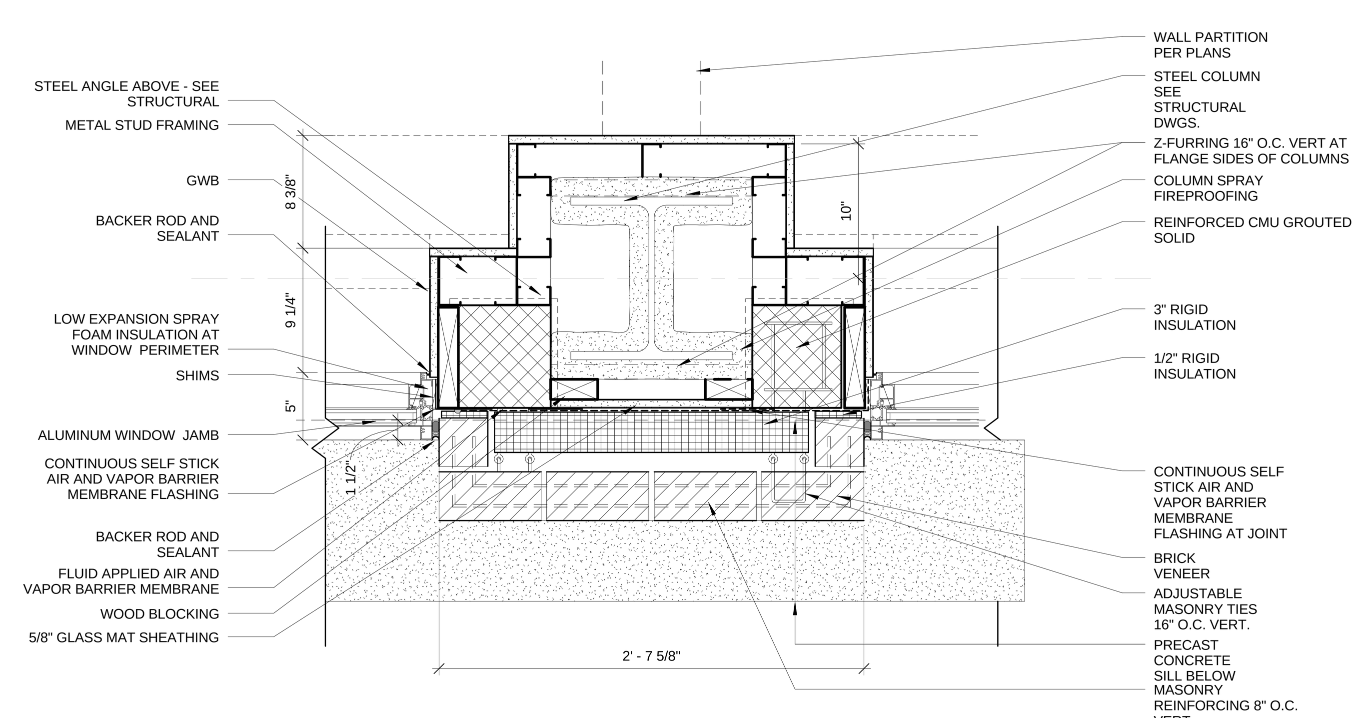
F4 TYPICAL PLAN DETAIL AT THIRD FLOOR COLUMNS
1 1/2" = 1'-0"



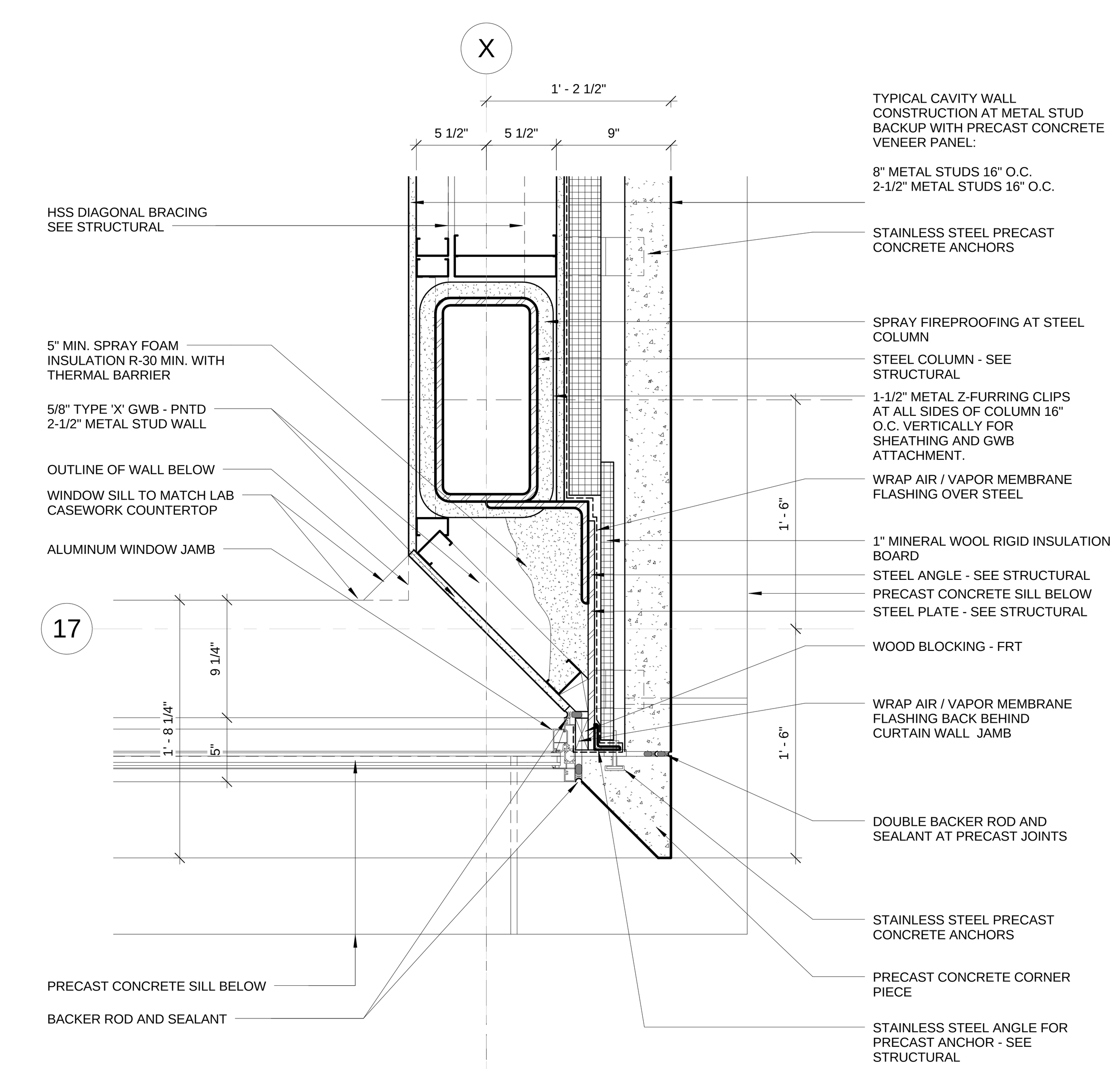
F11 COLUMN DETAIL AT EXTERIOR WALL
1 1/2" = 1'-0"



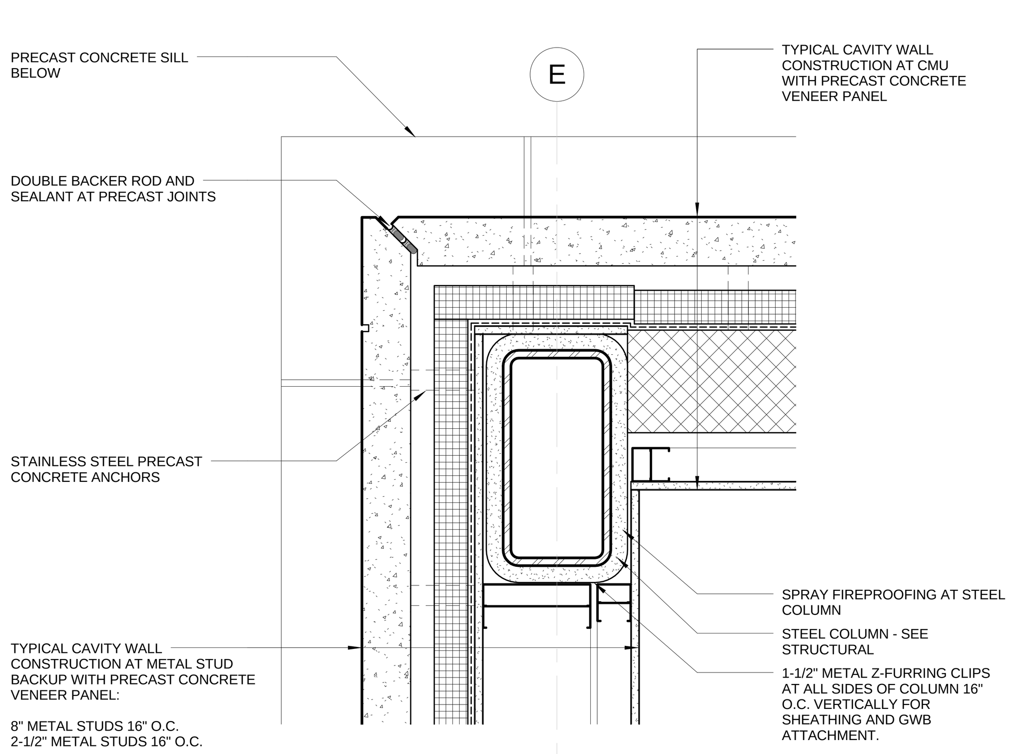
J1 BEAM CONNECTIONS AT GRID 8 RATED COLUMN - BELOW 2ND FLOOR LEVEL
1 1/2" = 1'-0"



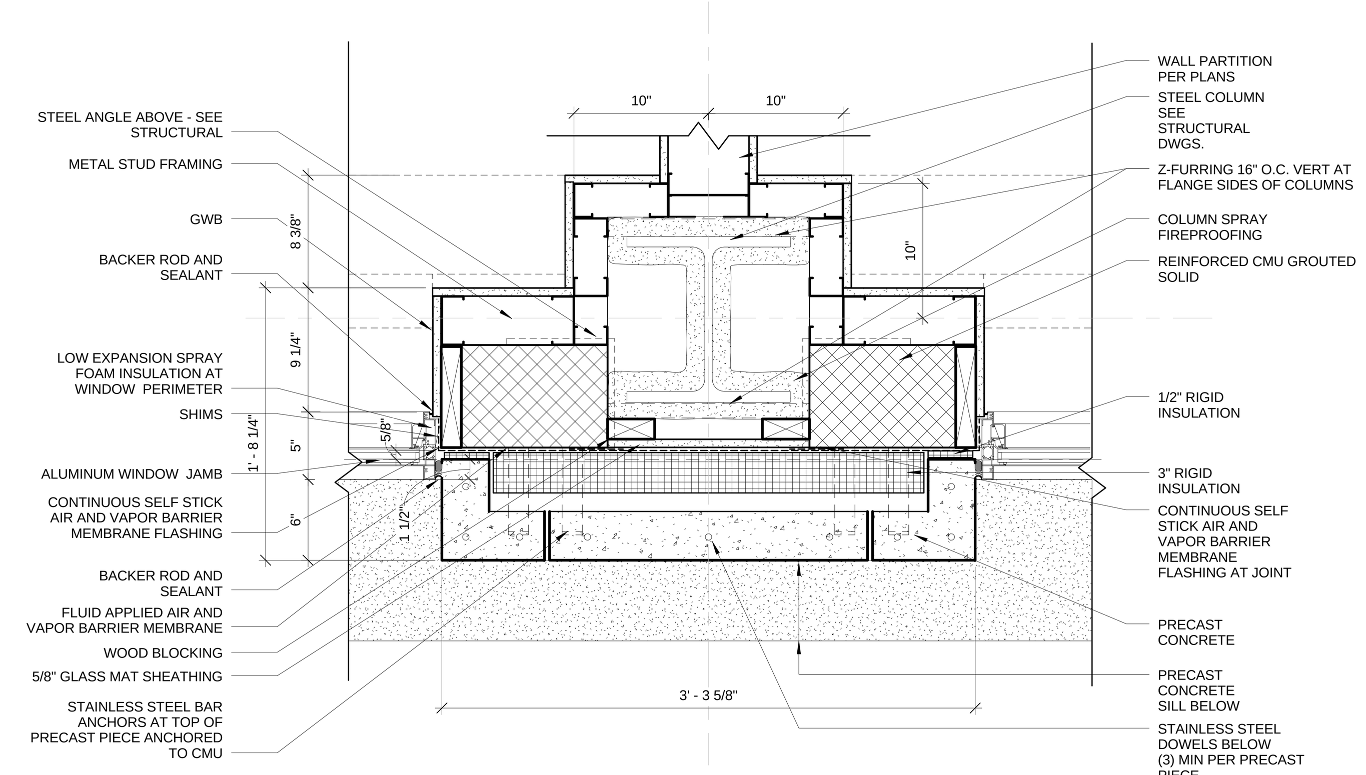
J4 TYPICAL PLAN DETAIL AT SECOND FLOOR COLUMNS
1 1/2" = 1'-0"



L11 ALUMINUM WINDOW JAMB AT BUILDING CORNER - TYPICAL
1 1/2" = 1'-0"



M1 COLUMN DETAIL AT EXTERIOR CORNER
1 1/2" = 1'-0"



M4 TYPICAL PLAN DETAIL AT GROUND FLOOR COLUMNS
1 1/2" = 1'-0"

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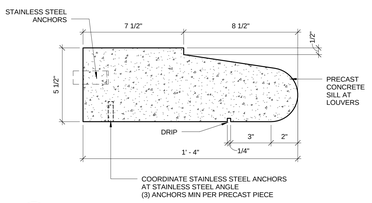
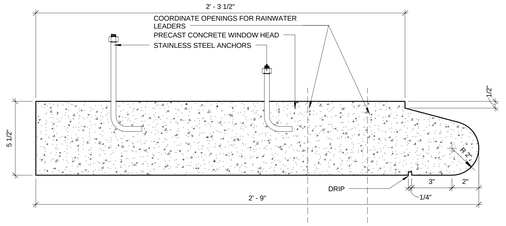
drawing title: EXTERIOR PLAN DETAILS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES	volume: 1 of 2
REVISIONS — mark / date / description: 11-21-2012 Bid Documents	DRAWING PREPARED BY: Centerbrook Architects and Planners, LLP 67 Main Street Post Office Box 955 Centerbrook, Connecticut 06409-0955	date: 11-21-2012 scale: 1 1/2" = 1'-0"
	project: SCSU NEW ACADEMIC LABORATORY BUILDING	drawn by: AS approved by: RM/JBR
	CAD no.: 1393 / project no.: BI-RS-283	drawing no.: A560



B1 PRECAST CONCRETE AT LOUVER SILL - LS1 (3rd FLOOR)
3" = 1'-0"



B4 PRECAST CONCRETE WINDOW HEAD - WH3 (3rd FLOOR)
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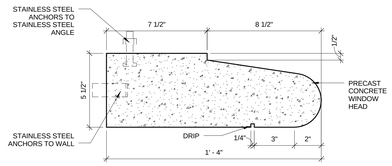

B7 PRECAST CONCRETE WINDOW HEAD - WH4 (3rd FLOOR)
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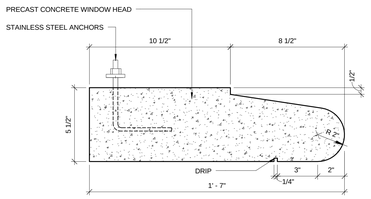

B9 PRECAST CONCRETE AT BRIDGE WINDOW HEAD - BWH2 (3rd FLOOR - GABLE END)
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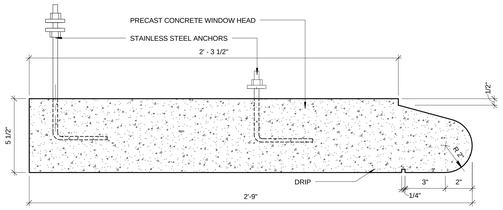
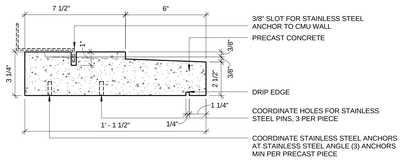
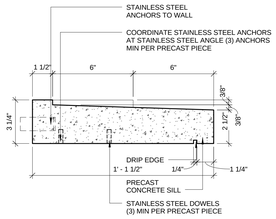


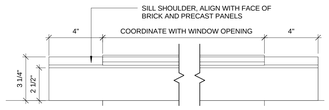
B13 PRECAST CONCRETE AT BRIDGE WINDOW HEAD - BWH1 (3rd FLOOR)
3" = 1'-0"



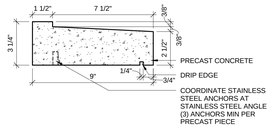
D1 PRECAST CONCRETE WALL SILL BAND - WSB3 (3rd FLOOR)
3" = 1'-0"



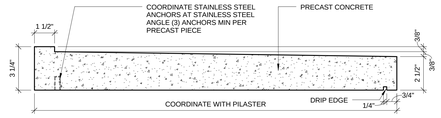
D4 PRECAST CONCRETE WINDOW SILL - WS3 (3rd FLOOR)
3" = 1'-0"



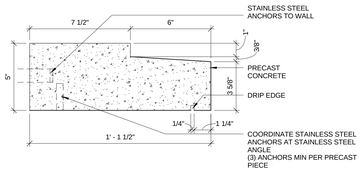
D7 WS3 ELEVATION (3rd FLOOR)
3" = 1'-0"



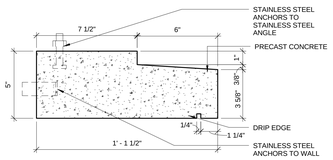
D9 PRECAST CONCRETE SILL AT BRIDGE CURTAIN WALL - BS1 (3rd FLOOR)
3" = 1'-0"



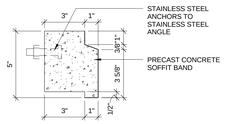
D13 PRECAST CONCRETE BRIDGE PILASTER CAP - BPC1 (3rd FLOOR)
3" = 1'-0"



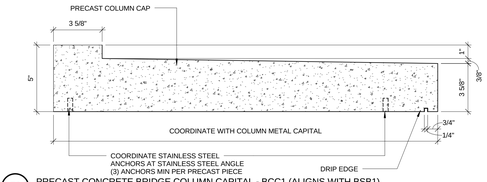
F1 PRECAST CONCRETE WALL HEAD BAND - WHB2 (2nd FLOOR)
3" = 1'-0"



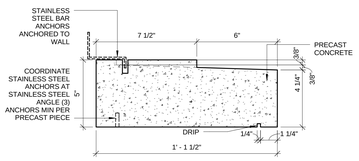
F4 PRECAST CONCRETE WINDOW HEAD - WH2 (2nd FLOOR)
3" = 1'-0"



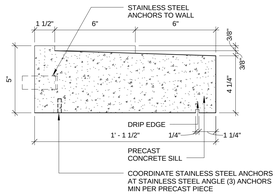
F7 PRECAST CONCRETE SOFFIT BAND AT BRIDGE - BSB1 (ALIGNS WITH WHB2)
3" = 1'-0"



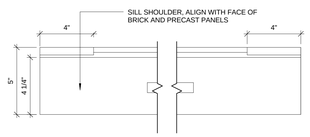
F9 PRECAST CONCRETE BRIDGE COLUMN CAPITAL - BCC1 (ALIGNS WITH BSB1)
3" = 1'-0"



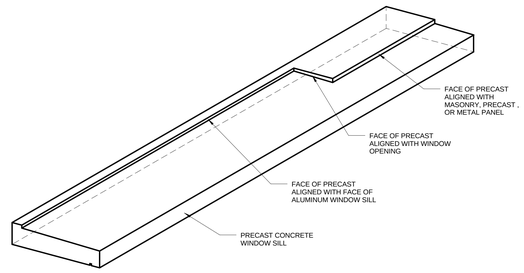
H1 PRECAST CONCRETE WALL SILL BAND - WSB2 (2nd FLOOR)
3" = 1'-0"



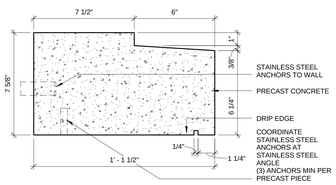
H4 PRECAST CONCRETE WINDOW SILL - WS2 (2nd FLOOR)
3" = 1'-0"



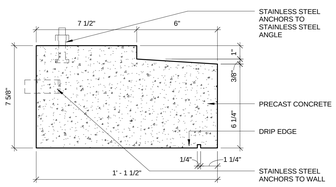
H7 WS2 ELEVATION (2nd FLOOR)
3" = 1'-0"



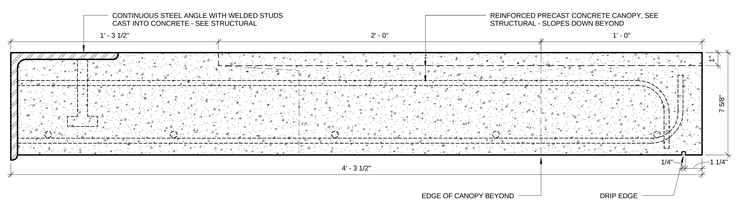
H13 PRECAST CONCRETE WINDOW SILL DETAIL - TYPICAL
1 1/2" = 1'-0"



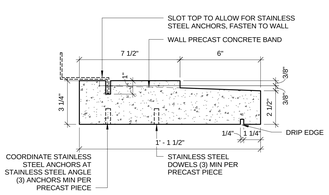
K1 PRECAST CONCRETE WALL HEAD BAND - WHB1 (GROUND FLOOR)
3" = 1'-0"



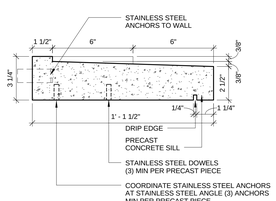
K4 PRECAST CONCRETE WINDOW HEAD - WH1 (GROUND FLOOR)
3" = 1'-0"



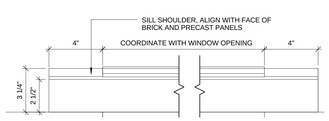
K7 PRECAST CONCRETE DOOR HEAD - DH1 (GROUND FLOOR - ALIGNS WITH WH1)
3" = 1'-0"



M1 PRECAST CONCRETE WALL SILL BAND - WSB1 (GROUND FLOOR)
3" = 1'-0"



M4 PRECAST CONCRETE WINDOW SILL - WS1 (GROUND FLOOR)
3" = 1'-0"



M7 WS1 ELEVATION (GROUND FLOOR)
3" = 1'-0"

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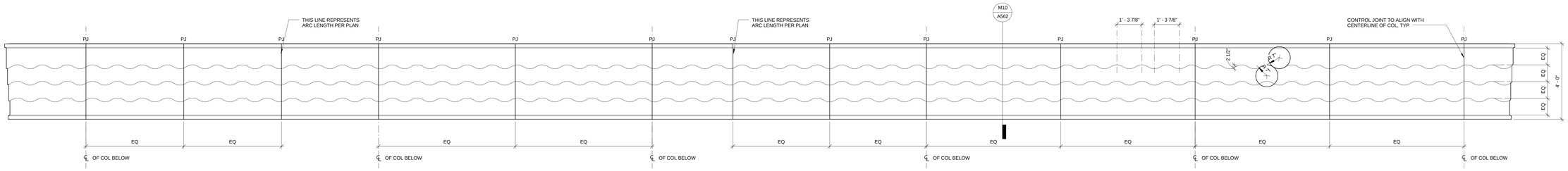
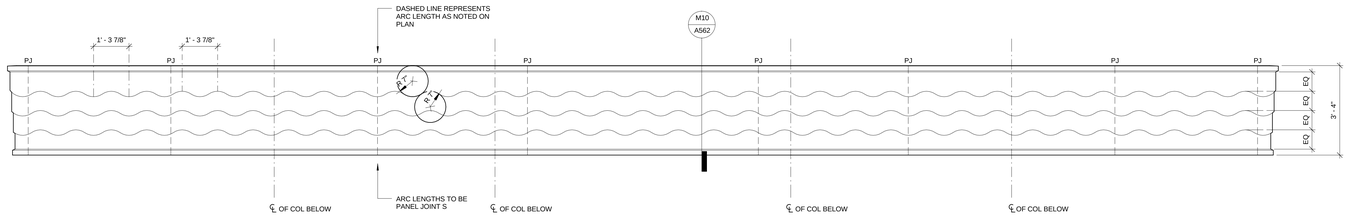
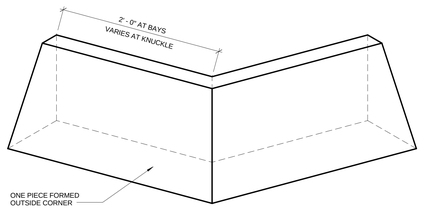
project title: PRECAST CONCRETE AND BRICK DETAILS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES
REVISIONS	
mark / date / description: 11-21-2012 Bid Documents	DRAWING PREPARED BY: Centerbrook Architects and Planners, LLP, 67 Main Street, Post Office Box 955, Centerbrook, Connecticut 06409-0955
project: SCSU NEW ACADEMIC LABORATORY BUILDING	CAD no. 1393 / project no. BI-RS-283
volume: 1 of 2	
date: 11-21-2012	
scale: As indicated	
drawn by: TCT/AS	
checked by: RM/JBR	
drawing no.: A561	



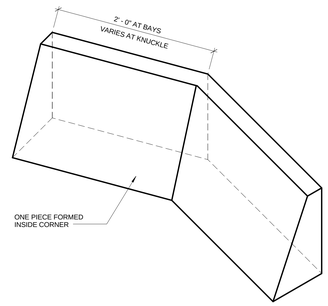
B1 FLATTENED SOUTH WAVED PRECAST CANOPY
1/2" = 1'-0"



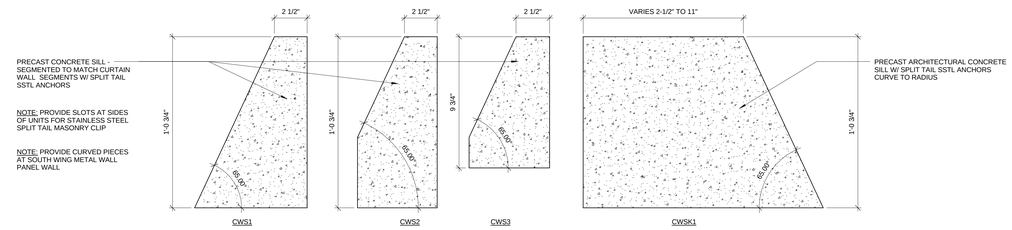
D1 FLATTENED NORTH WAVED PRECAST CANOPY
1/2" = 1'-0"



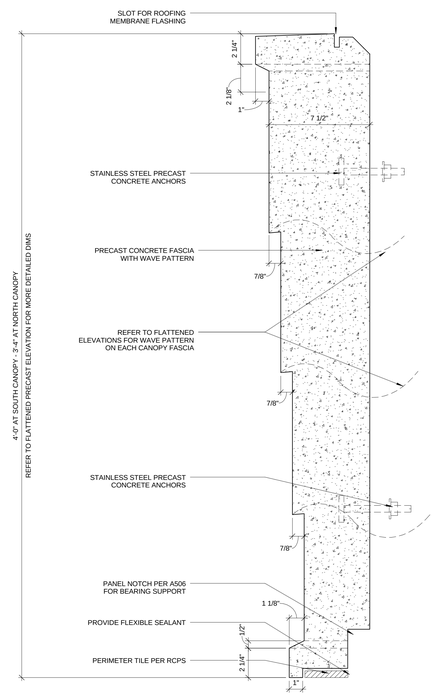
G4 TYPICAL FORMED PRECAST CONCRETE SILL - OUTSIDE CORNER
1 1/2" = 1'-0"



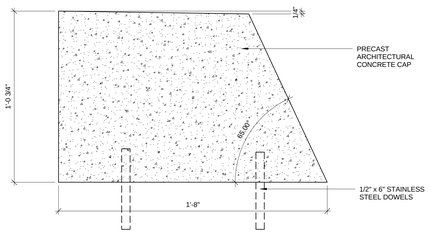
G7 TYPICAL FORMED PRECAST CONCRETE SILL - INSIDE CORNER
1 1/2" = 1'-0"



G9 PRECAST CONCRETE SILL PROFILES @ CURTAIN WALL
3" = 1'-0"



M10 PRECAST CONCRETE CANOPY FASCIA
3" = 1'-0"



L13 PRECAST CONCRETE AREAWAY WALL CAP - AWC1
3" = 1'-0"

project
PRECAST CONCRETE ELEVATIONS AND DETAILS

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

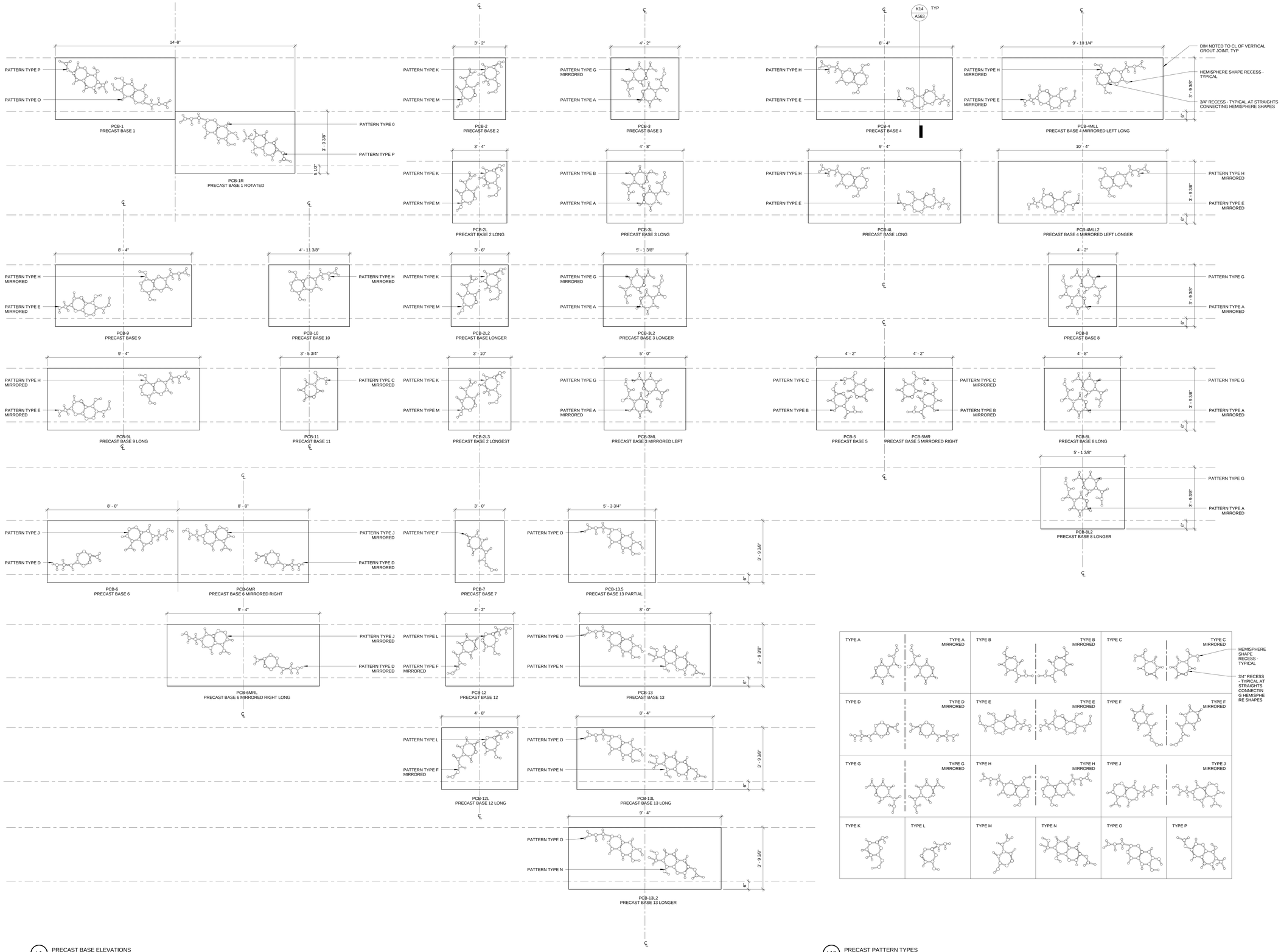
mark	date	description
	11-21-2012	Bid Documents

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

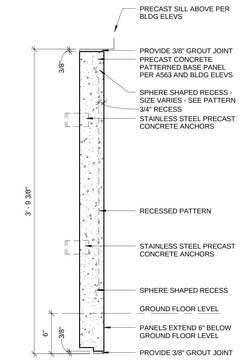
CAD no. 1393
project no. BI-RS-283

sheet no. 1 of 2
date 11-21-2012
scale As indicated
drawn by PCM
checked by AS/RM
drawing no. A562



L1 PRECAST BASE ELEVATIONS
1/2" = 1'-0"

L10 PRECAST PATTERN TYPES
1/2" = 1'-0"



K14 PRECAST PATTERNED BASE SECTION
1 1/2" = 1'-0"

GENERAL NOTES:

1. REFER TO EXTERIOR ELEVATIONS FOR PANEL LOCATIONS.
2. ALL BASE PANELS TO EXTEND 6" BELOW GROUND FLOOR LEVEL.
3. NOMINAL PANEL LENGTH SHOWN ARE TYPICALLY DIMENSIONED TO CENTERLINE OF PANEL JOINT. ACTUAL PANEL SIZE IS LESS 3/8".
4. NOMINAL PANEL HEIGHT SHOW ARE SHOWN TO TOP OF CONCRETE SHELF AND BOTTOM OF SILL ABOVE. ACTUAL PANEL SIZE IS LESS 3/4".
5. FIELD VERIFY DIMENSIONS PRIOR TO SHOP DRAWINGS AND FABRICATION.

drawing title: PRECAST CONCRETE BASE ELEVATIONS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING CIRCULATED BY:
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

sheet no. 1 of 2
date 11-21-2012
scale As indicated
drawn by PCM
checked by AS/RM
drawing no. A563

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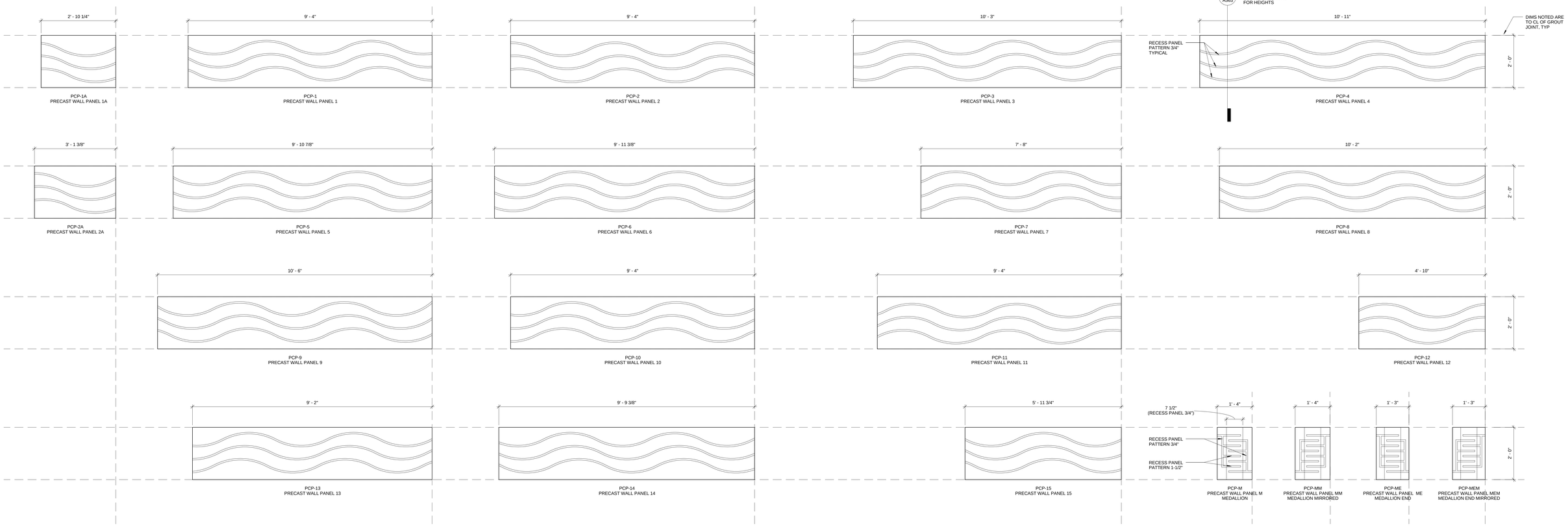
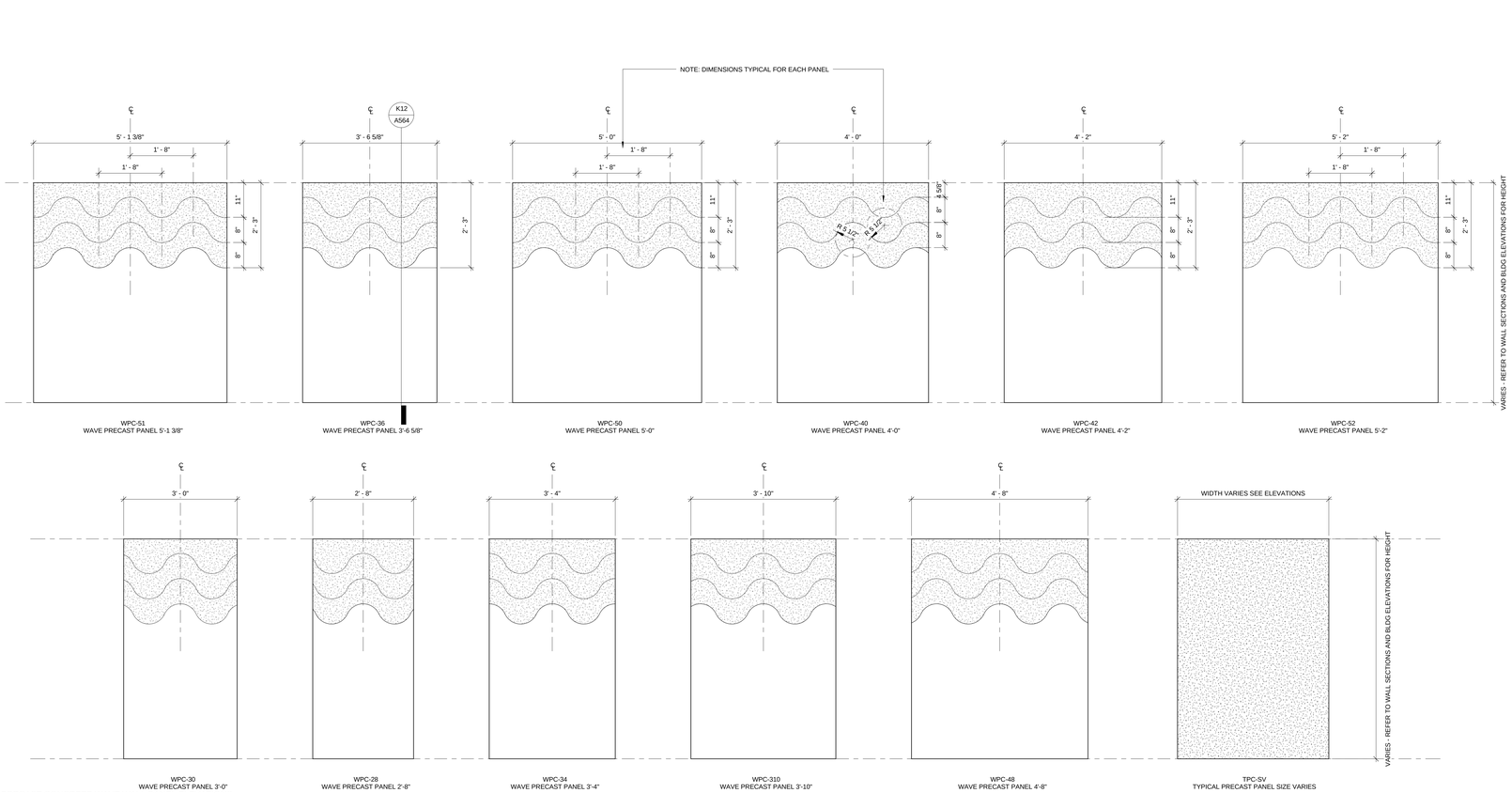
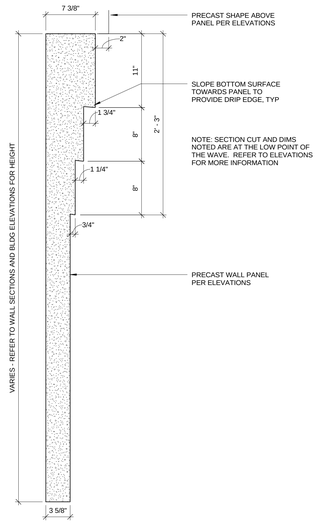


F1 PRECAST CONCRETE UPPER WALL PANEL ELEVATIONS
3/4" = 1'-0"



H1 PRECAST CONCRETE WAVE WALL PANEL ELEVATIONS
3/4" = 1'-0"



K12 PRECAST WAVE PANEL SECTION
1 1/2" = 1'-0"

GENERAL NOTES:
1. REFER TO EXTERIOR ELEVATIONS FOR PANEL LOCATIONS.
2. NOMINAL PANEL LENGTH SHOWN ARE TYPICALLY DIMENSIONED TO CENTERLINE OF PANEL JOINT. ACTUAL PANEL SIZE IS LESS 3/8".
3. NOMINAL PANEL HEIGHT SHOW ARE SHOWN - ACTUAL PANEL SIZE IS LESS 3/4".
4. FIELD VERIFY DIMENSIONS PRIOR TO SHOP DRAWINGS AND FABRICATION.

PRECAST CONCRETE WALL PANEL ELEVATIONS			STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES	sheet of 1 of 2
REVISIONS				
mark	date	description	DRAWING PREPARED BY **Centerbrook Architects and Planners, LLP** 67 Main Street Post Office Box 955 Centerbrook, Connecticut 06409-0955	date 11-21-2012
	11-21-2012	Bid Documents		scale As indicated
			project SCSU NEW ACADEMIC LABORATORY BUILDING	drawn by PCM
				checked by AS/RM
			CAD no. 1393 / project no. BI-RS-283	drawing no. A564

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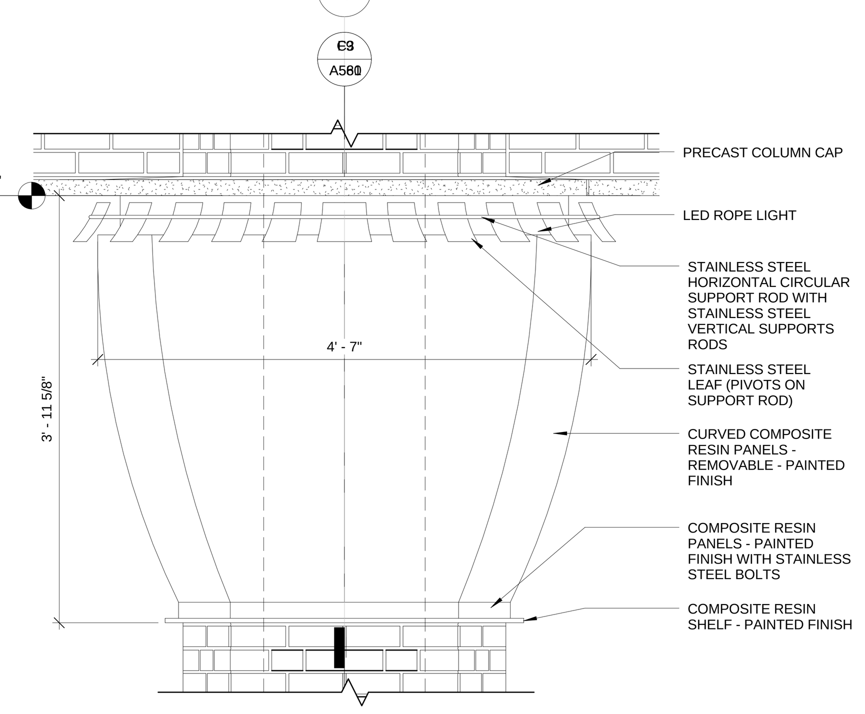
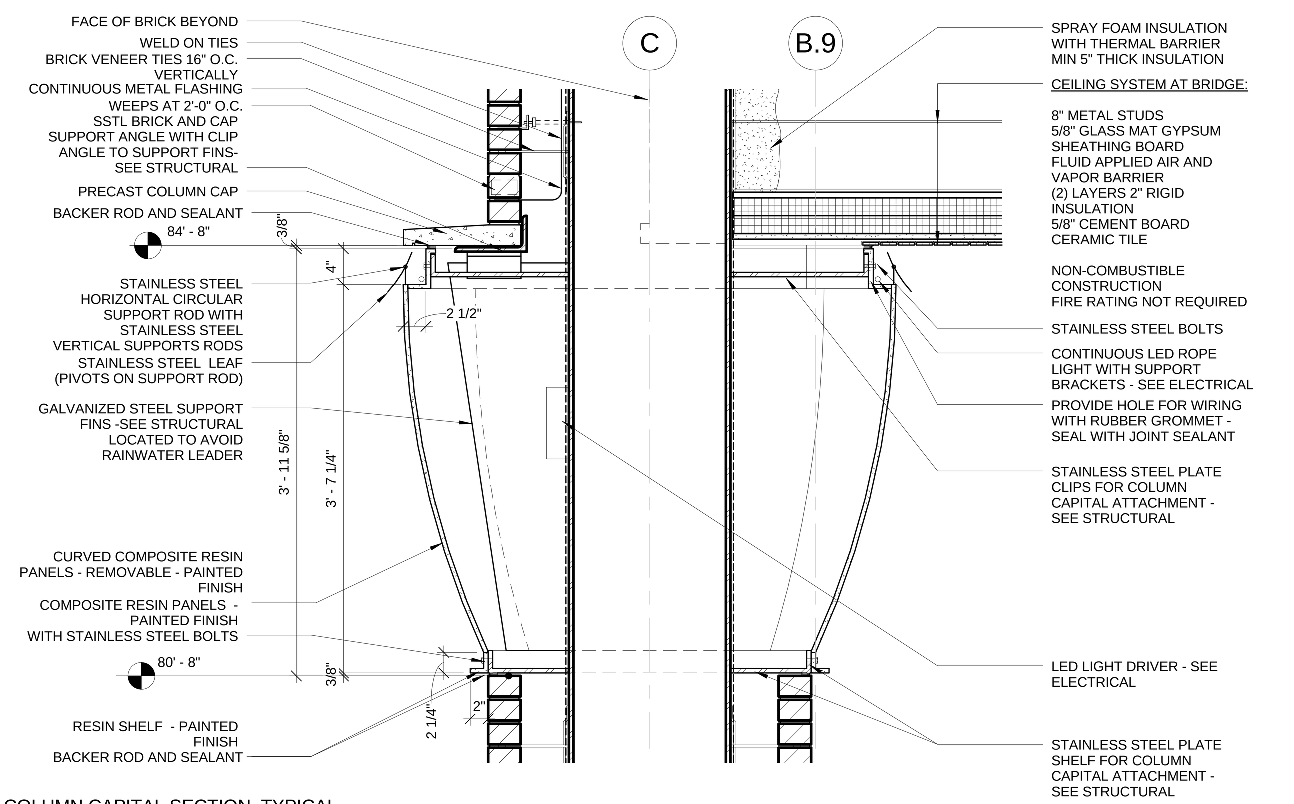
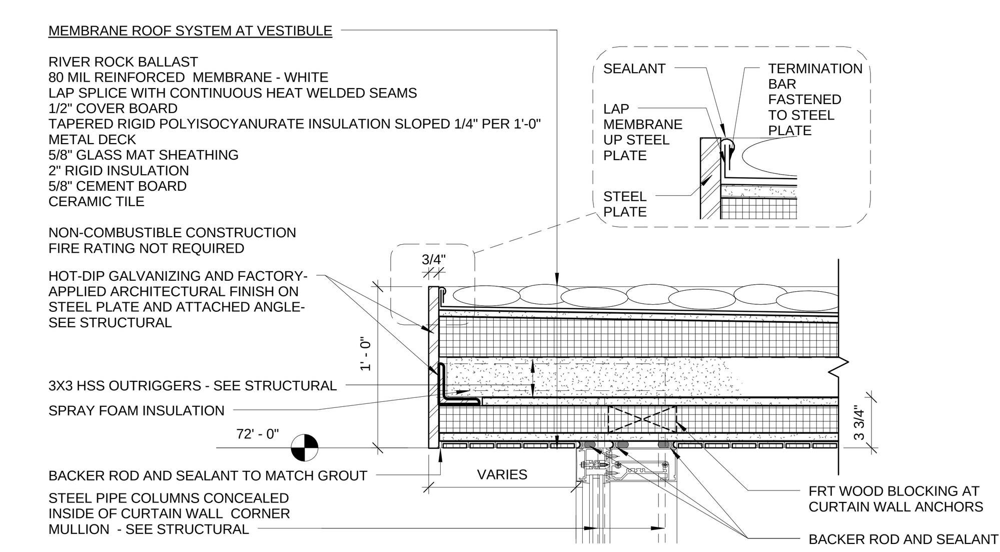


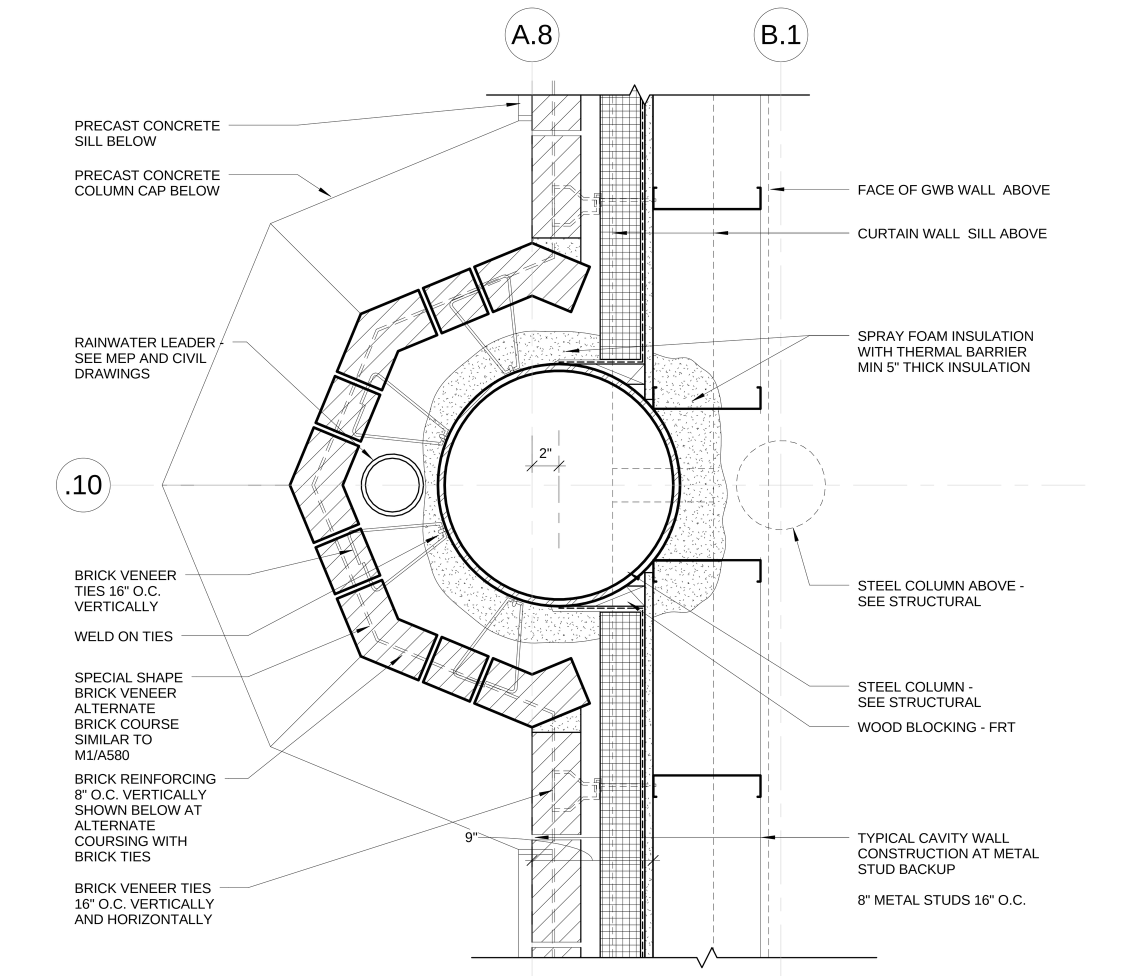
F1 BRIDGE COLUMN CAPITAL DETAIL
1" = 1'-0"



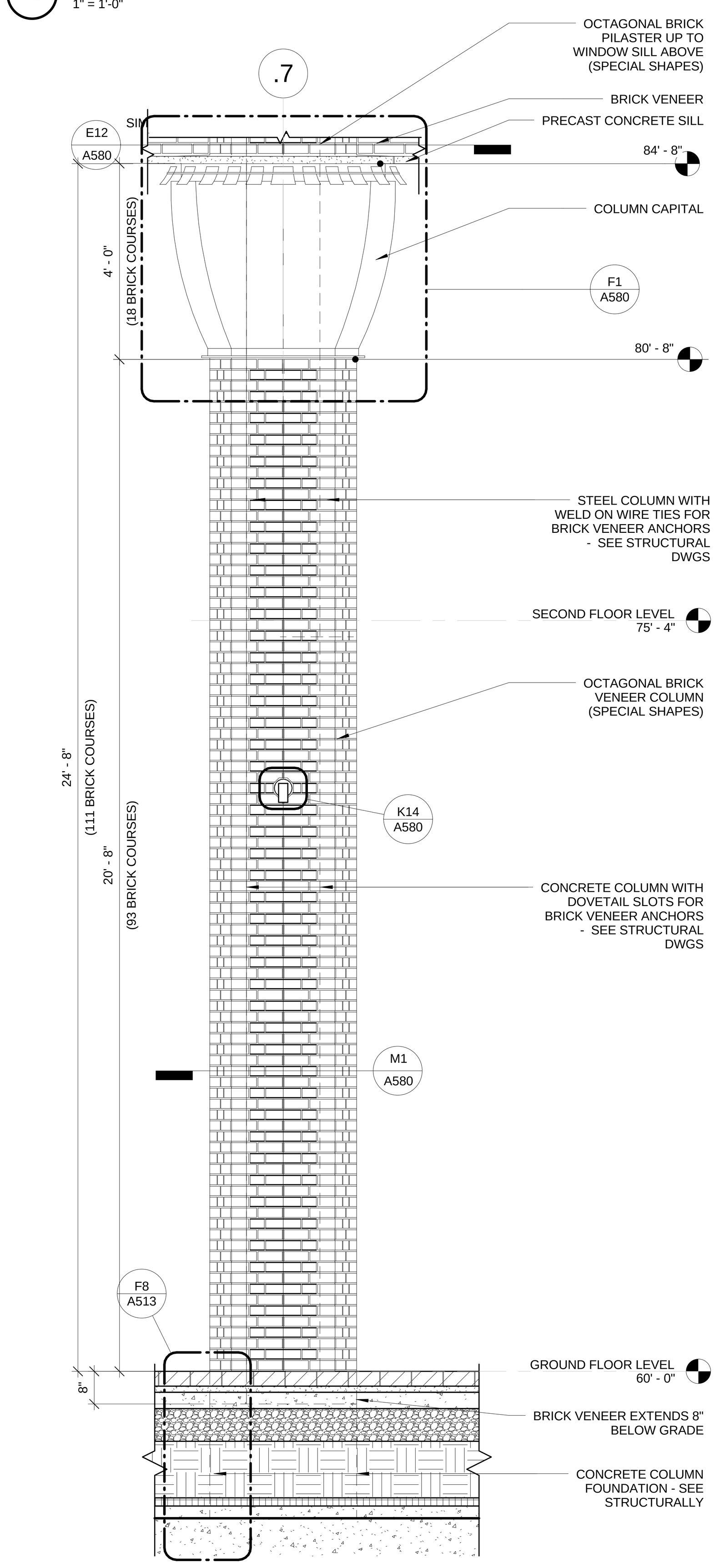
C3 BRIDGE COLUMN CAPITAL SECTION, TYPICAL
1" = 1'-0"



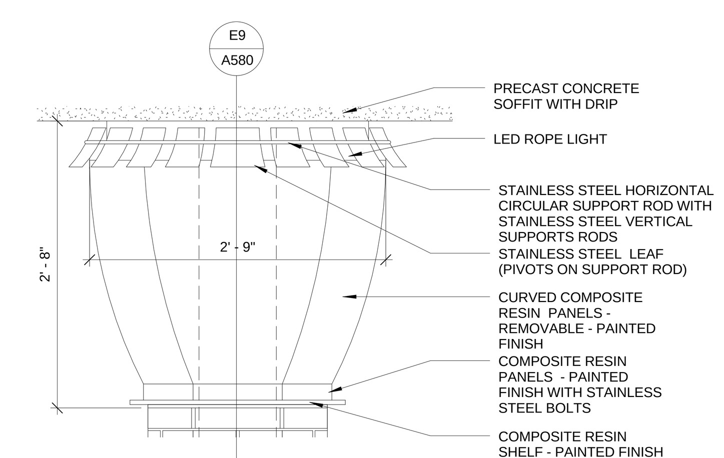
C9 CANOPY DETAIL AT VEST 112A
1 1/2" = 1'-0"



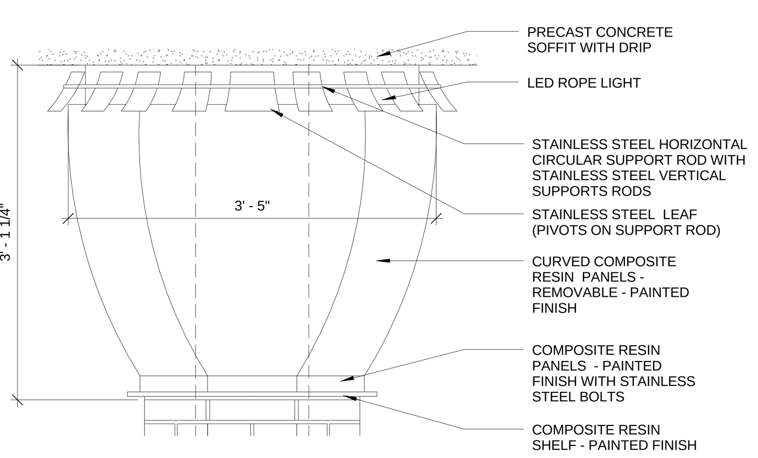
E12 BRIDGE COLUMN PILASTER PLAN DETAIL - TYPICAL
1 1/2" = 1'-0"



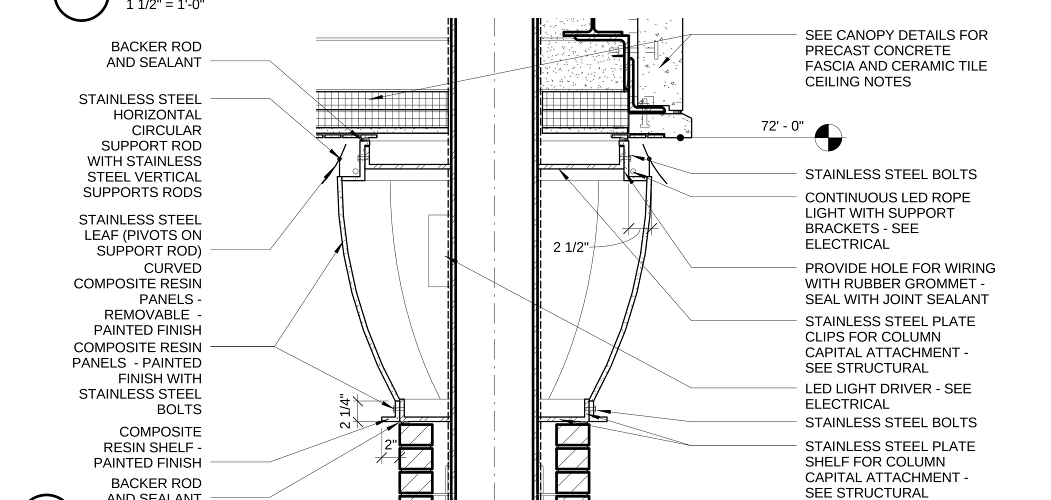
J1 BRIDGE COLUMN DETAIL ELEVATION
1/2" = 1'-0"



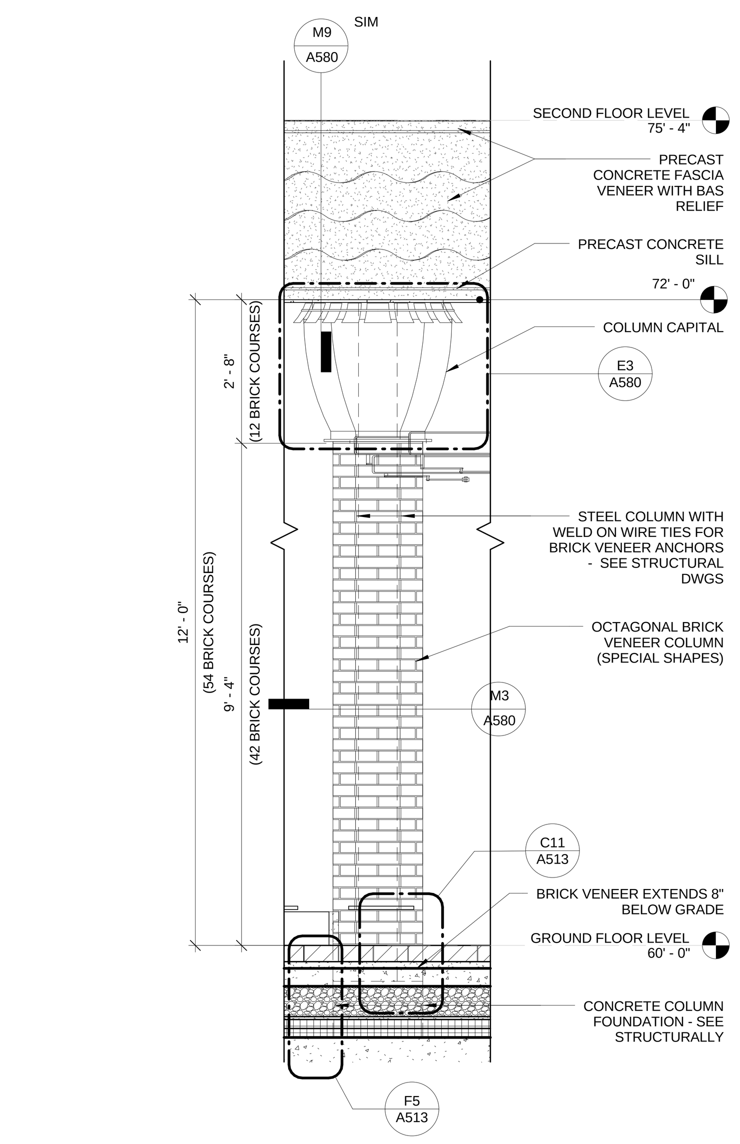
E3 KNUCKLE CANOPY COLUMN CAPITAL DETAIL
1" = 1'-0"



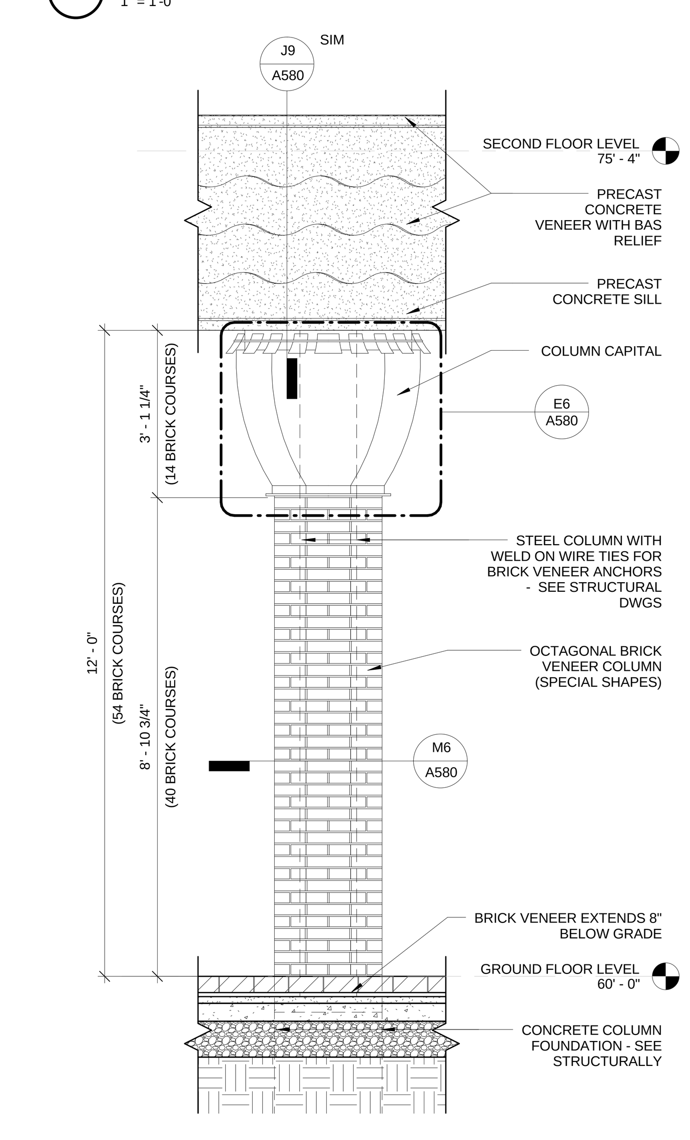
E6 SOUTH WING CANOPY COLUMN CAPITAL DETAIL
1" = 1'-0"



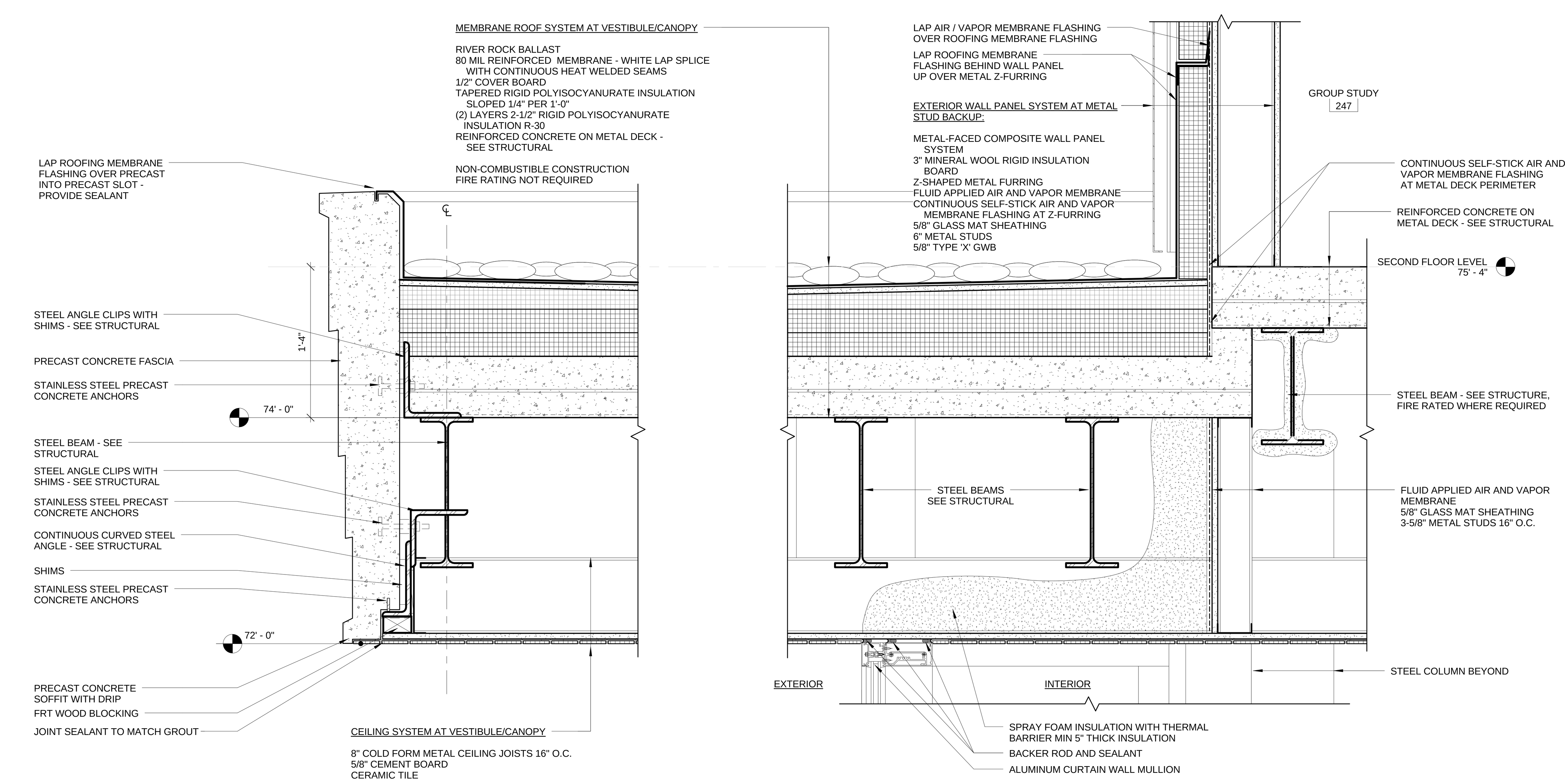
E9 KNUCKLE & SOUTH WING CANOPY COLUMN CAPITAL SECTION
1" = 1'-0"



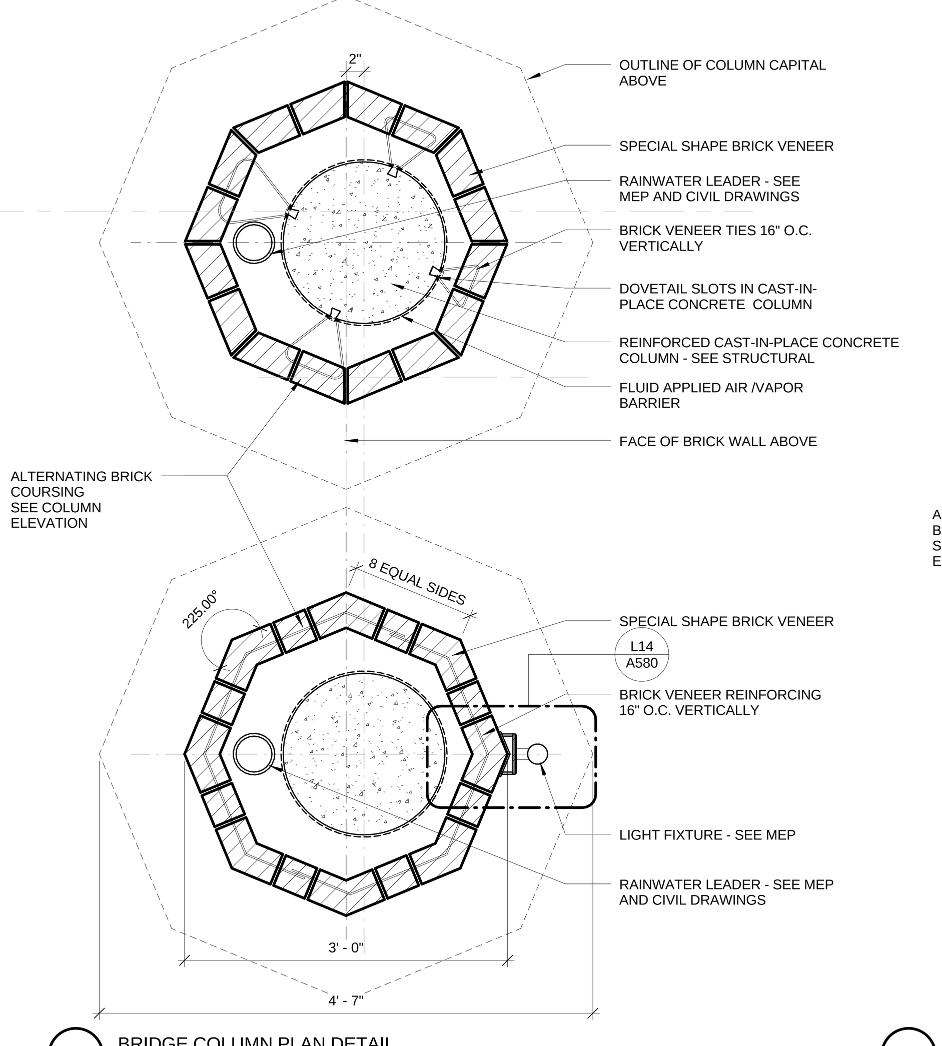
J3 KNUCKLE CANOPY COLUMN ELEVATION
1/2" = 1'-0"



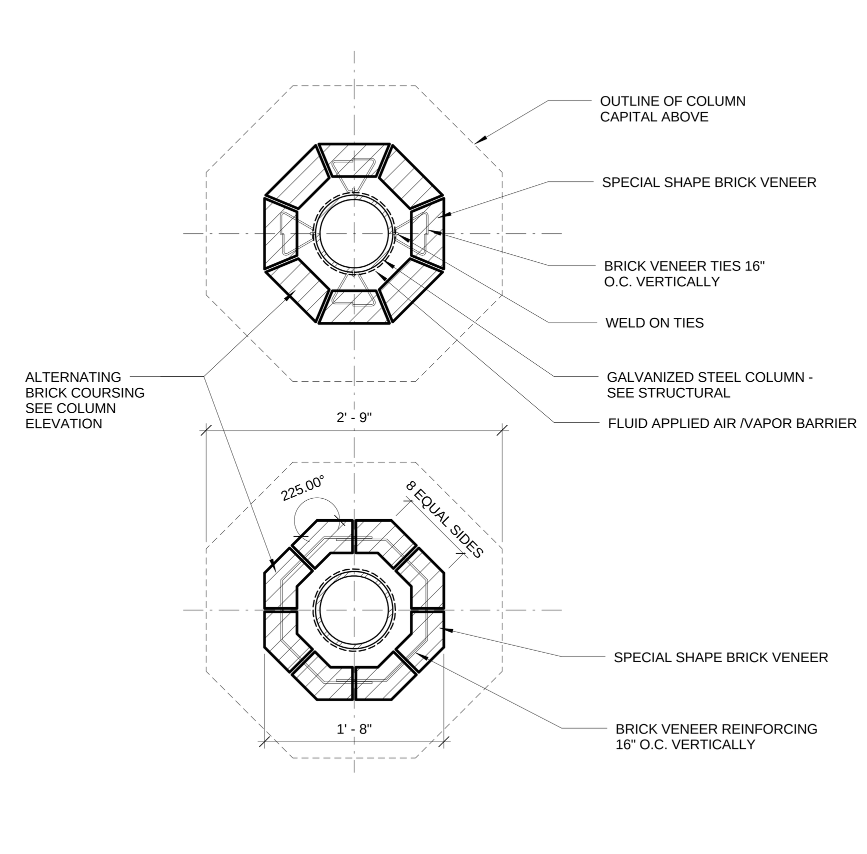
J6 SOUTH WING CANOPY COLUMN ELEVATION
1/2" = 1'-0"



J9 CANOPY DETAIL AT VEST 145
1 1/2" = 1'-0"



M1 BRIDGE COLUMN PLAN DETAIL
1" = 1'-0"



M3 KNUCKLE CANOPY COLUMN PLAN DETAIL
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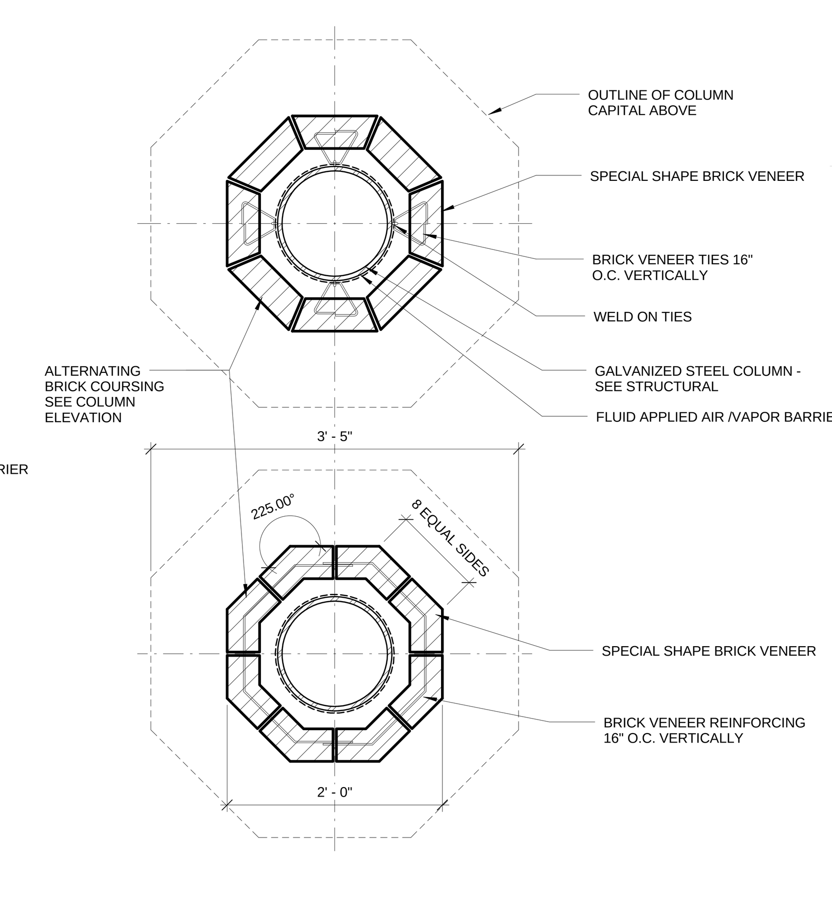
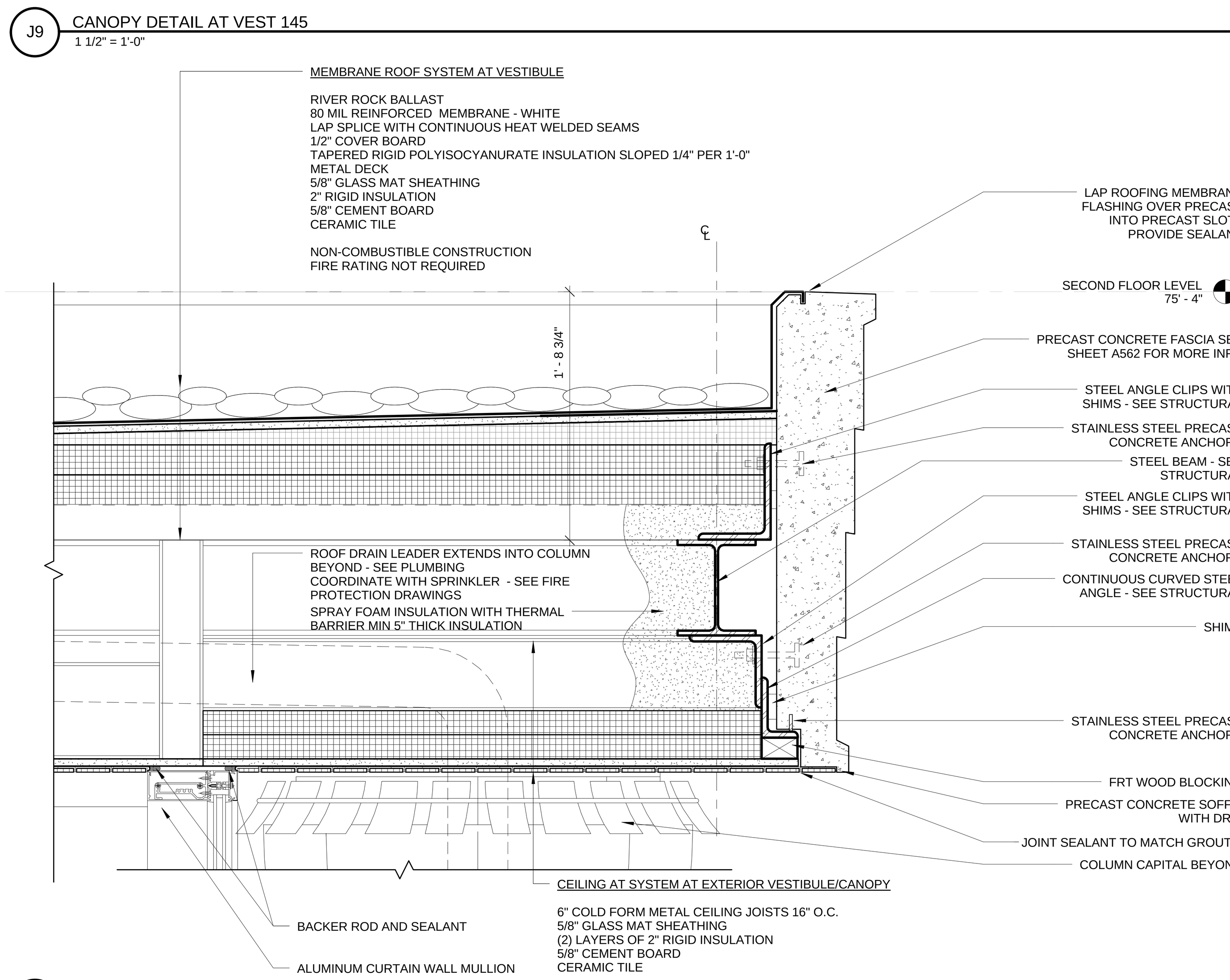
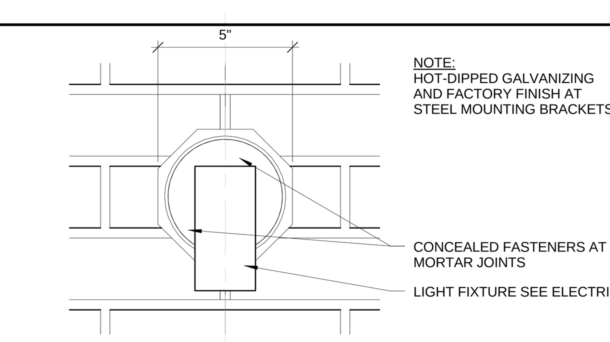


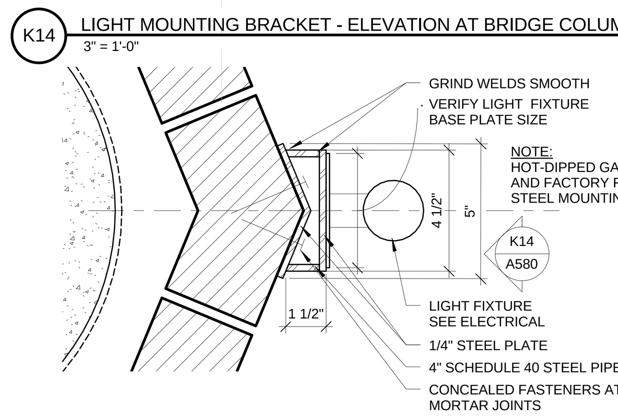
M6 SOUTH WING CANOPY COLUMN PLAN DETAIL
1" = 1'-0"



M9 CANOPY DETAIL AT VEST 115
1 1/2" = 1'-0"



K14 LIGHT MOUNTING BRACKET - ELEVATION AT BRIDGE COLUMN
3" = 1'-0"



L14 LIGHT MOUNTING BRACKET - PLAN DETAIL AT BRIDGE COLUMN
3" = 1'-0"

drawing title: CANOPY & COLUMN DETAILS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

volume 1 of 2
date 11-21-2012
scale As indicated
drawn by AS
approved by RM/JBR
drawing no. A580

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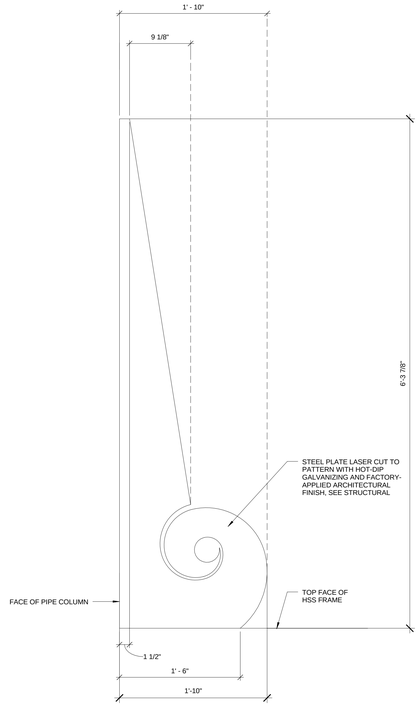
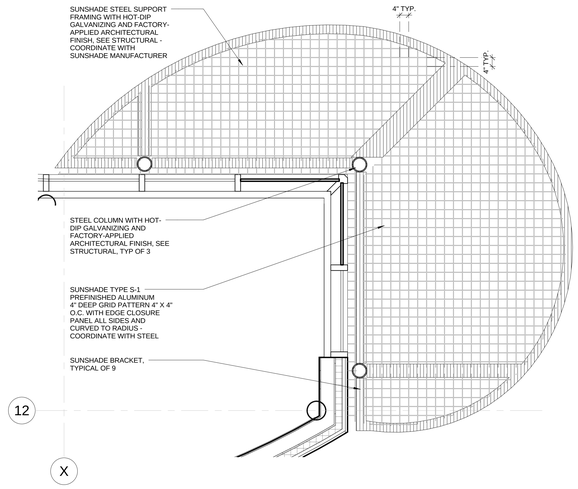
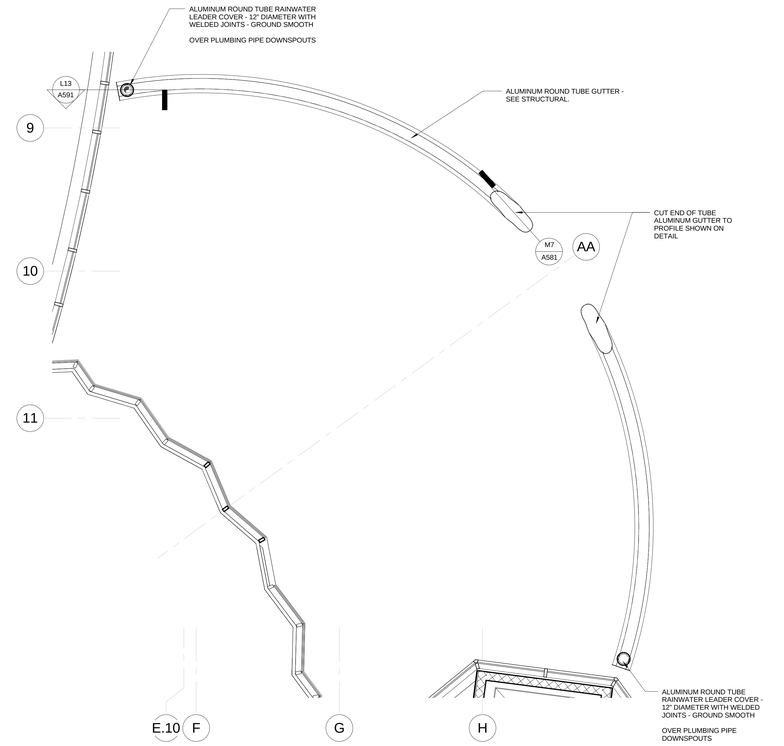


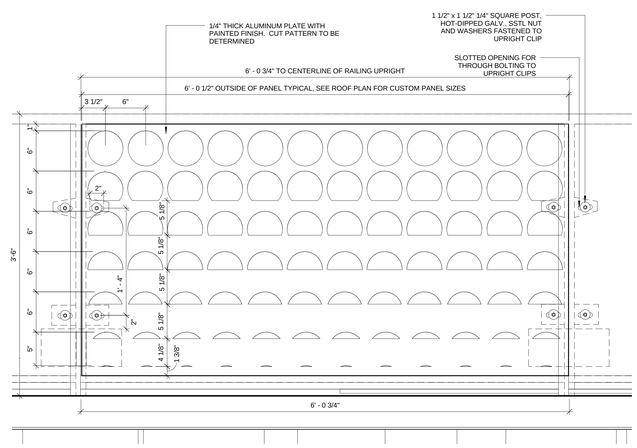
F4 SUNSHADE BRACKET - SIDE VIEW
1 1/2" = 1'-0"



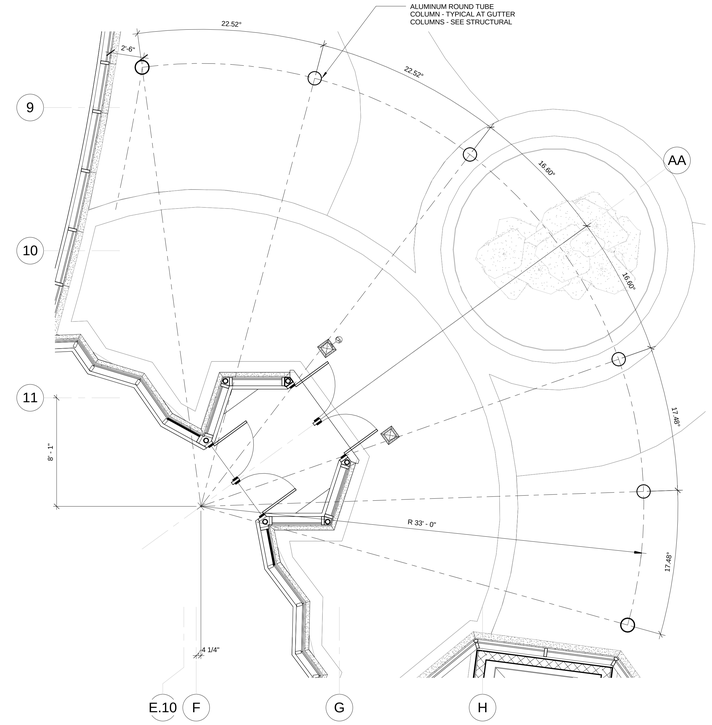
F7 ENLARGED PLAN OF SUNSHADE TYPE S-1, TYP OF 2
1/2" = 1'-0"



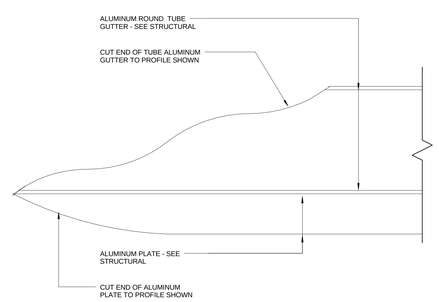
F11 ENLARGED PLAN OF GUTTER AT 2ND FLOOR LEVEL
1/4" = 1'-0"



K7 ELEVATION OF ROOF RAILING PANEL
1 1/2" = 1'-0"



L11 ENLARGED PLAN OF GUTTER AT GROUND FLOOR
1/4" = 1'-0"



M7 GUTTER DETAIL
1 1/2" = 1'-0"

drawing title
GUTTER AND SUNSHADE DETAILS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

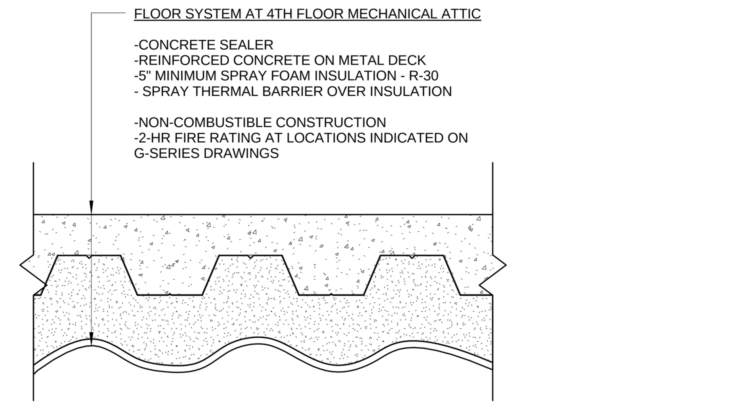
DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

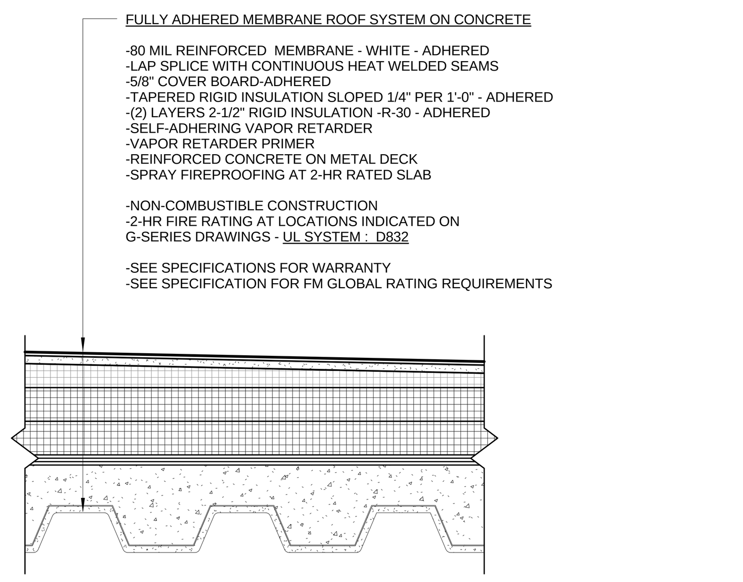
CAD no. 1393
project no. BI-RS-283

sheet no. 1 of 2
date 11-21-2012
scale As indicated
drawn by TCT/LT/AS
checked by RMUBR
drawing no. A581

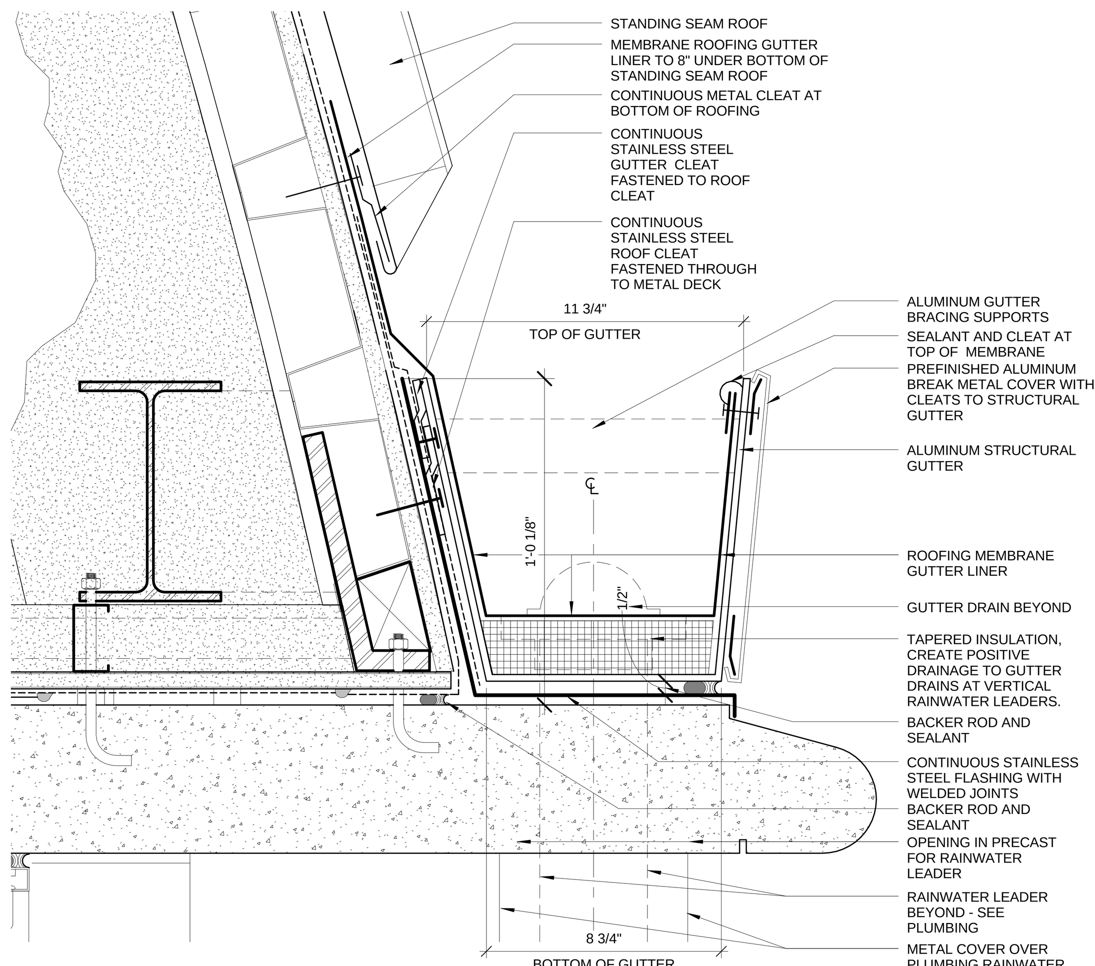
Colliers Local Field | P91 | P2b | New Academic and Laboratory Building & F-1 Canopy_Graphics1 1/12/2012 12:12:27 PM



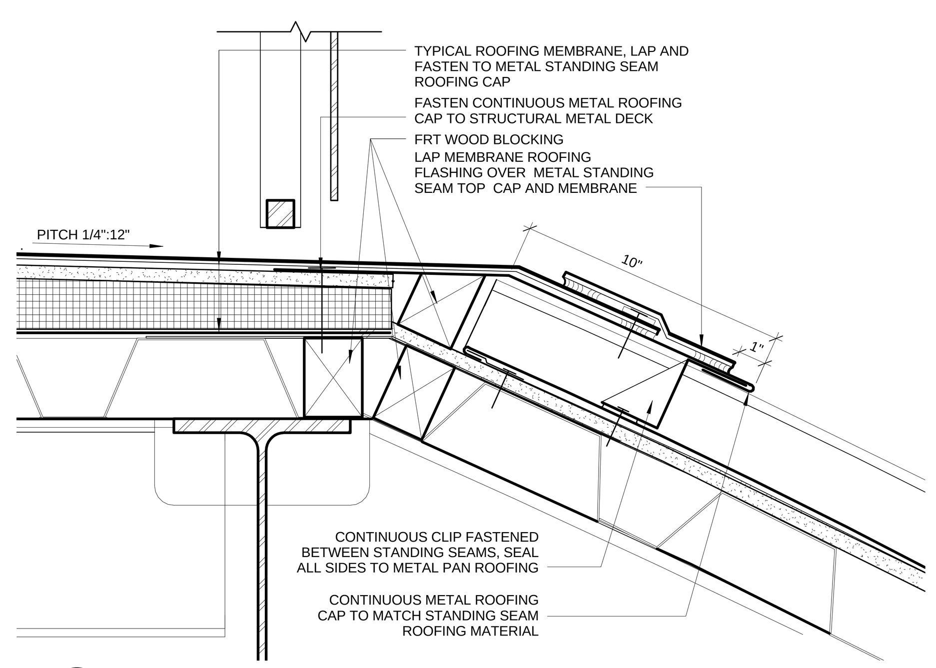
B1 FLOOR SECTION AT 4TH FLOOR MECHANICAL ATTIC - TYPICAL
1 1/2" = 1'-0"



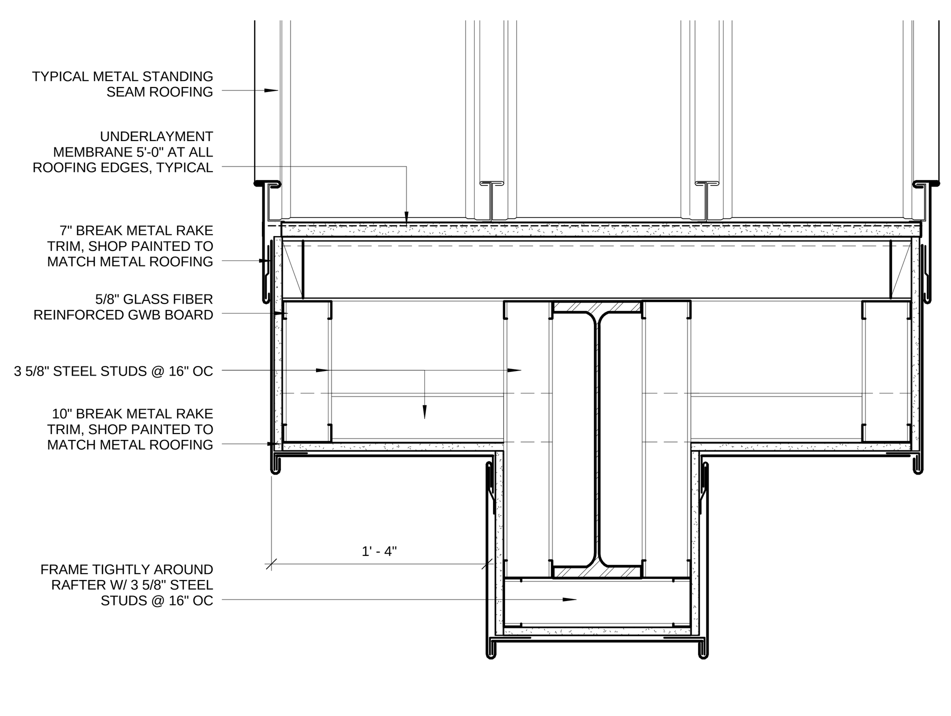
D1 LOW-SLOPE ROOFING SYSTEM - TYPICAL
1 1/2" = 1'-0"



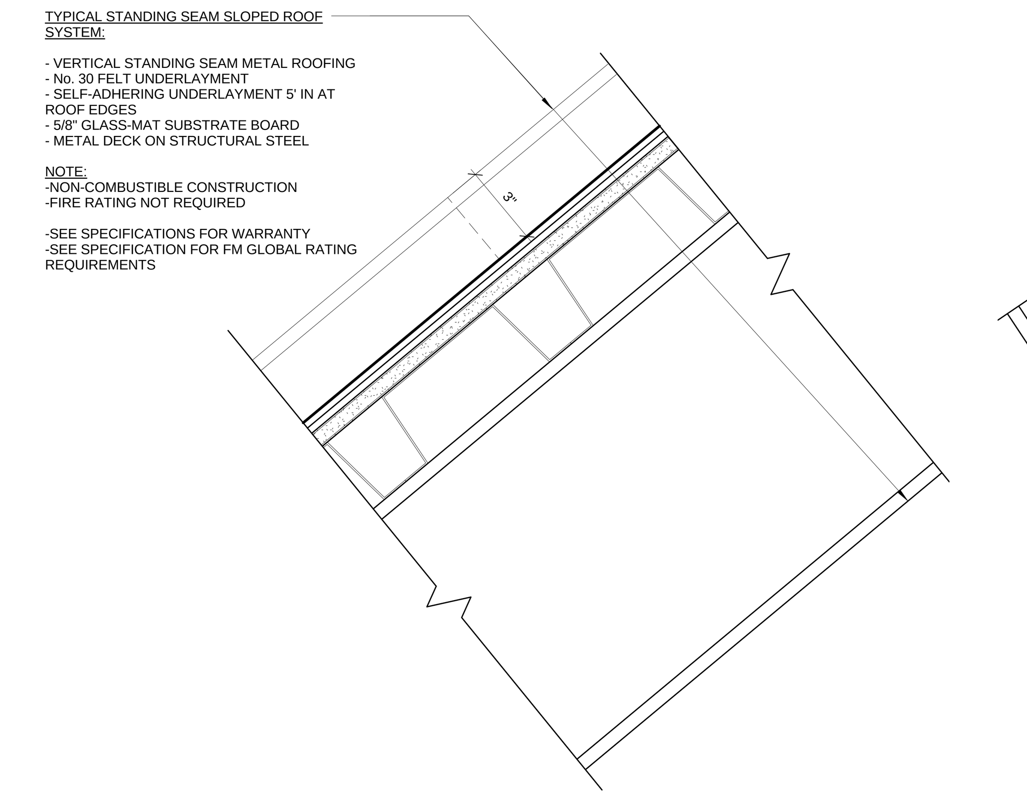
D4 GUTTER AT CURVED ROOF
3" = 1'-0"



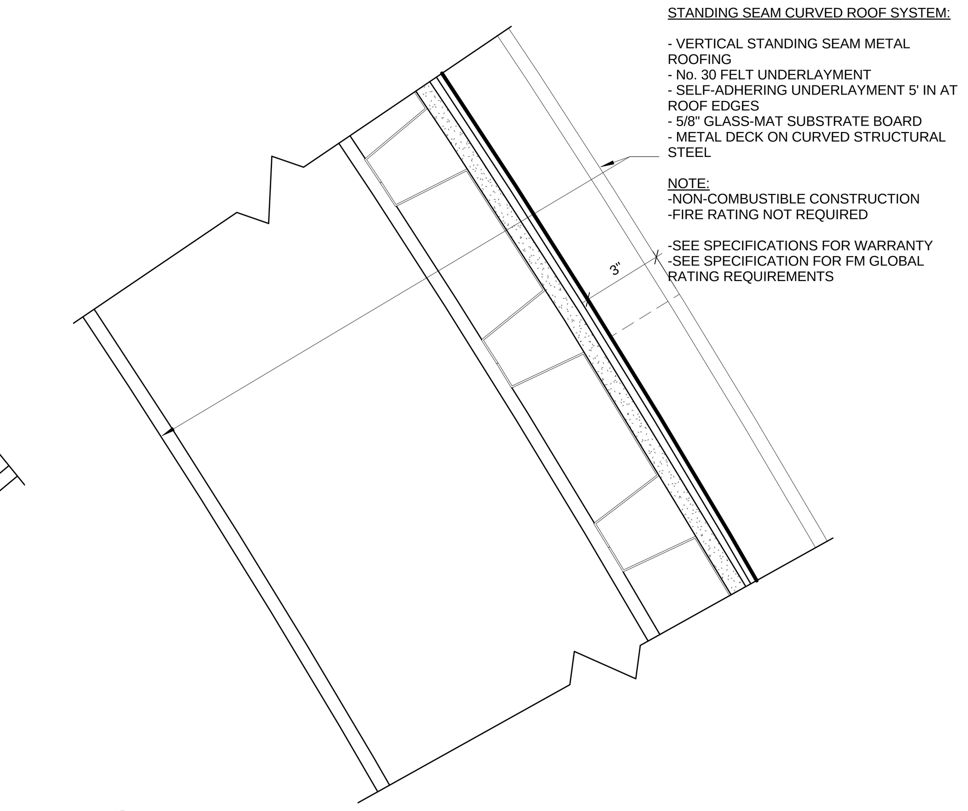
F4 CURVED STANDING SEAM METAL ROOF TRANSITION TO LOW-SLOPE ROOF
3" = 1'-0"



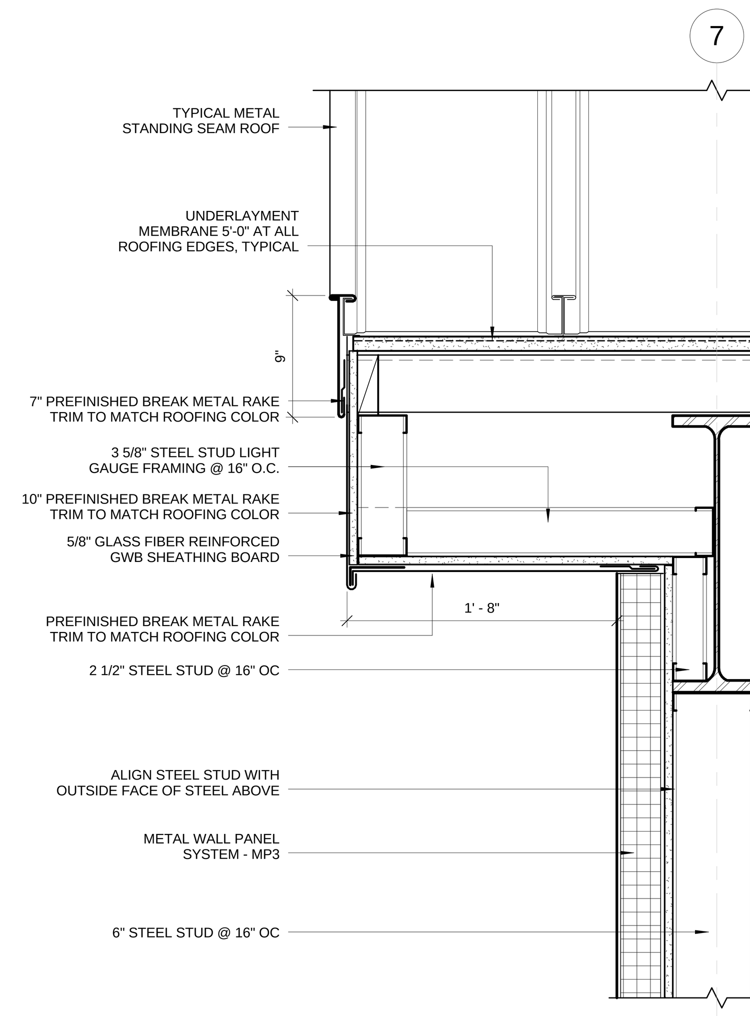
C8 ROOF CROSS SECTION DETAIL AT COOLING TOWERS
1 1/2" = 1'-0"



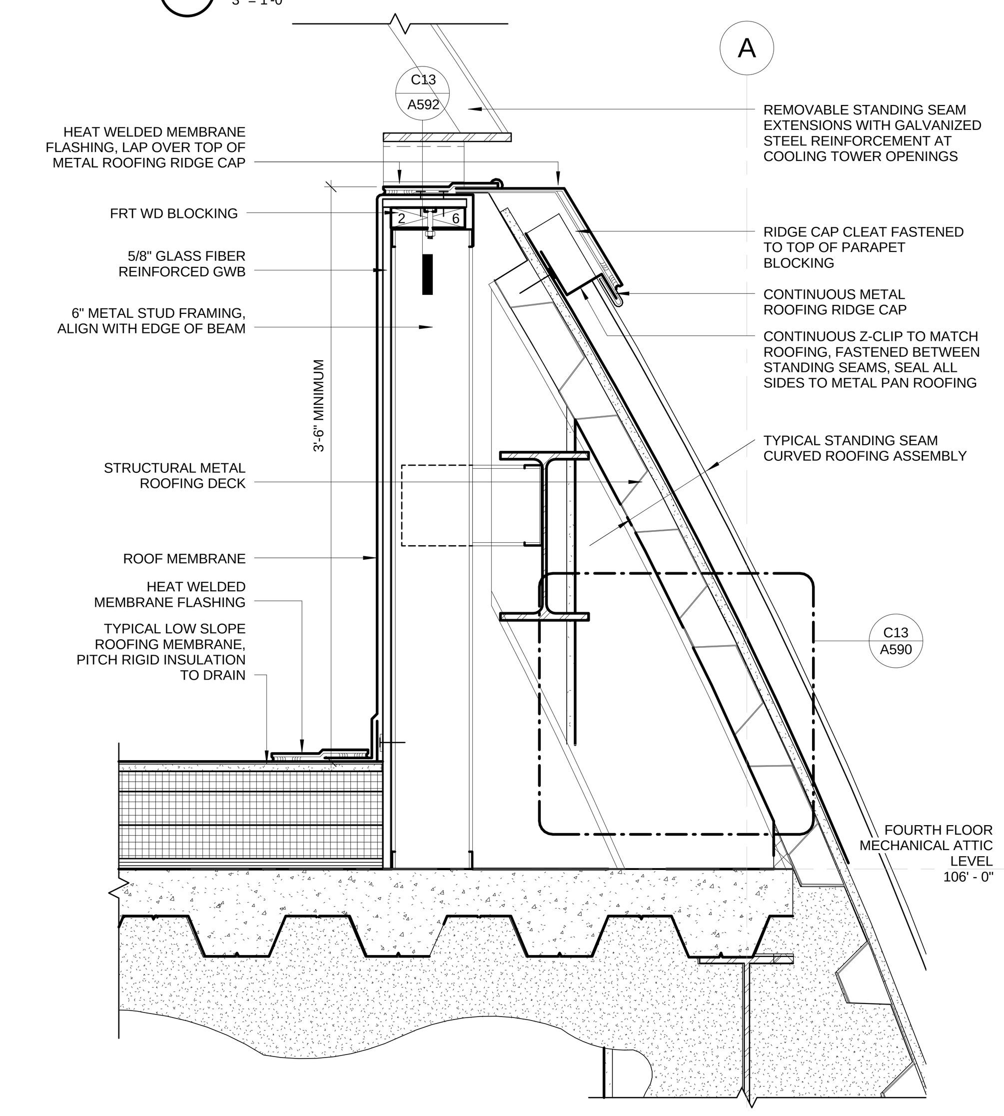
C11 ROOF CONSTRUCTION DETAIL AT SLOPE, TYP
3" = 1'-0"



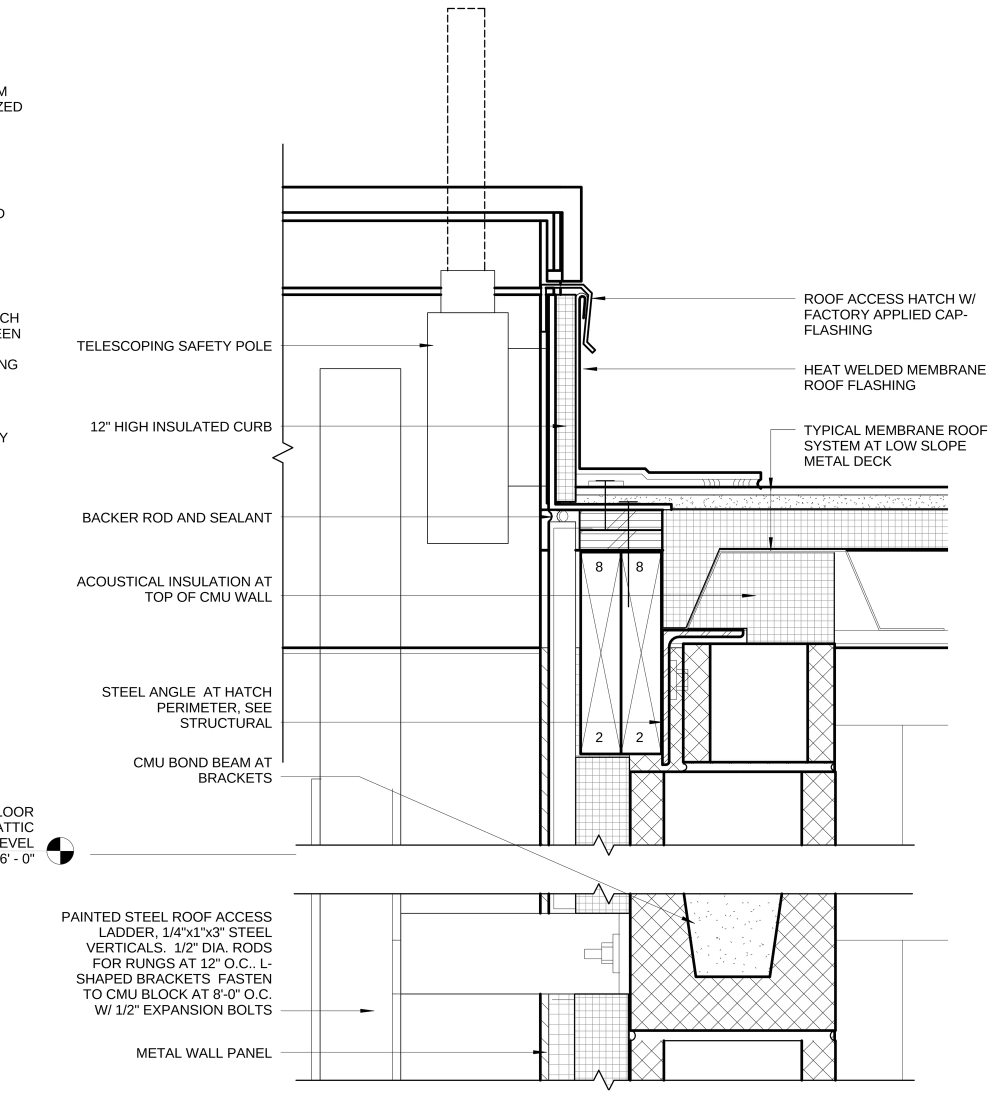
C13 ROOF CONSTRUCTION DETAIL AT CURVE, TYP
3" = 1'-0"



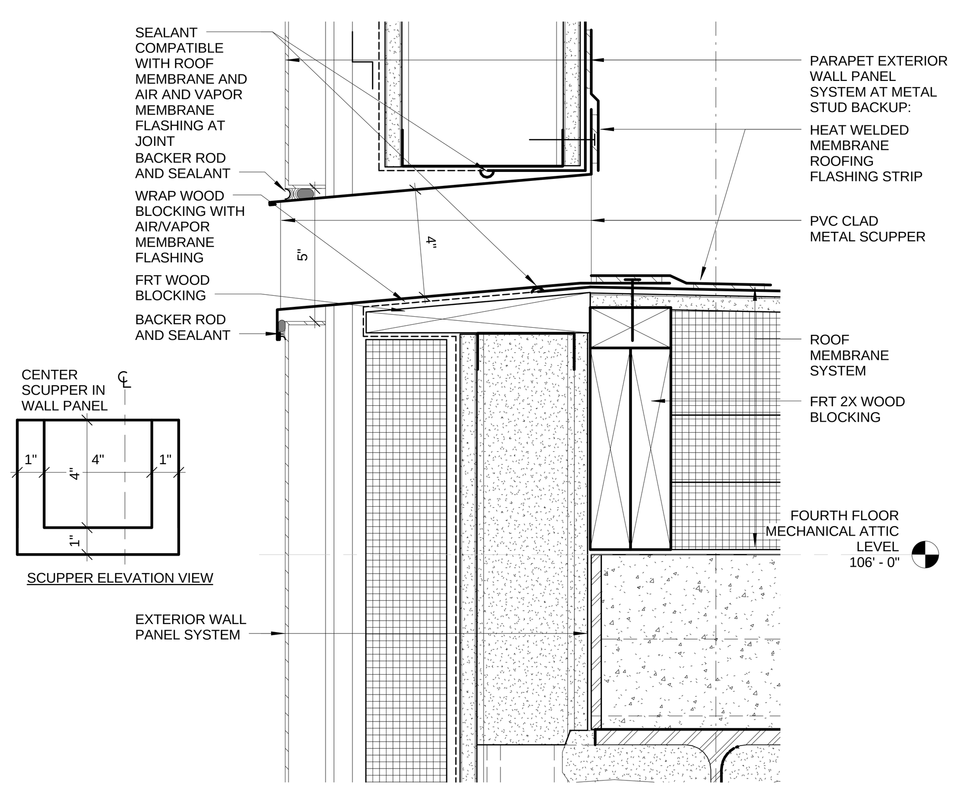
G8 ROOF CROSS SECTION DETAIL AT METAL WALL PANEL AT COOLING TOWERS
1 1/2" = 1'-0"



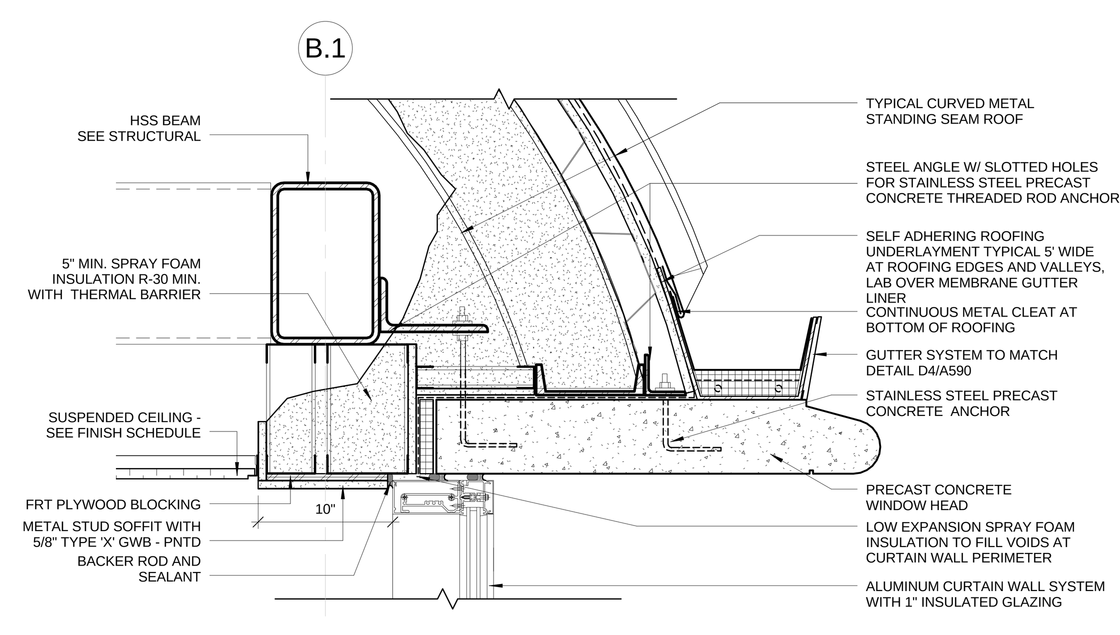
G11 ROOF SECTION TERMINATION DETAIL AT COOLING TOWERS
1 1/2" = 1'-0"



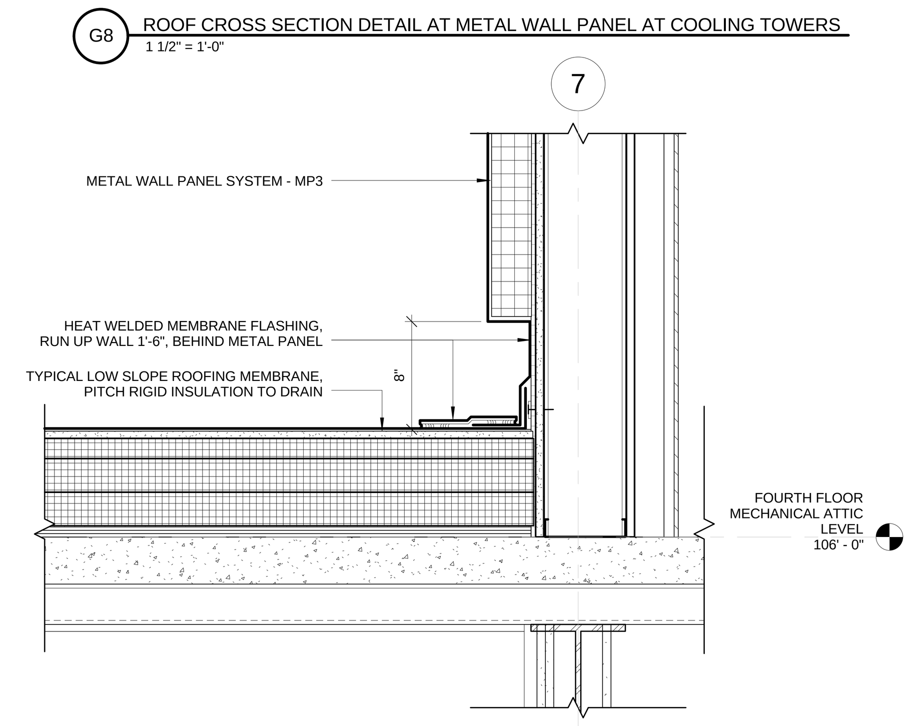
G13 ROOF HATCH DETAIL
3" = 1'-0"



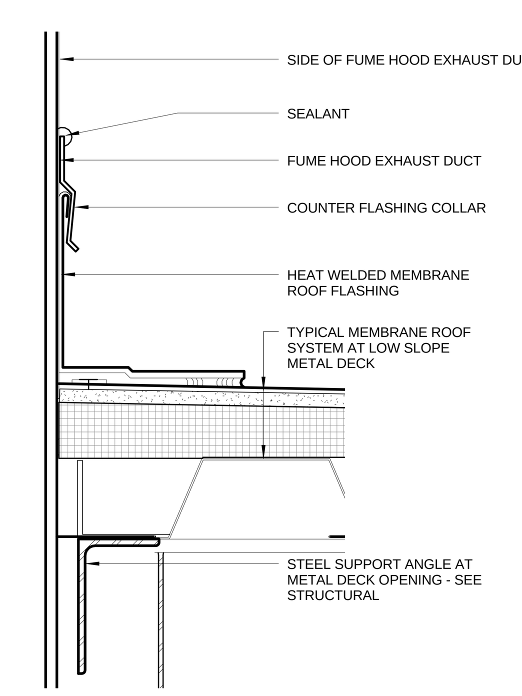
J1 TYPICAL MEMBRANE ROOF SCUPPER
3" = 1'-0"



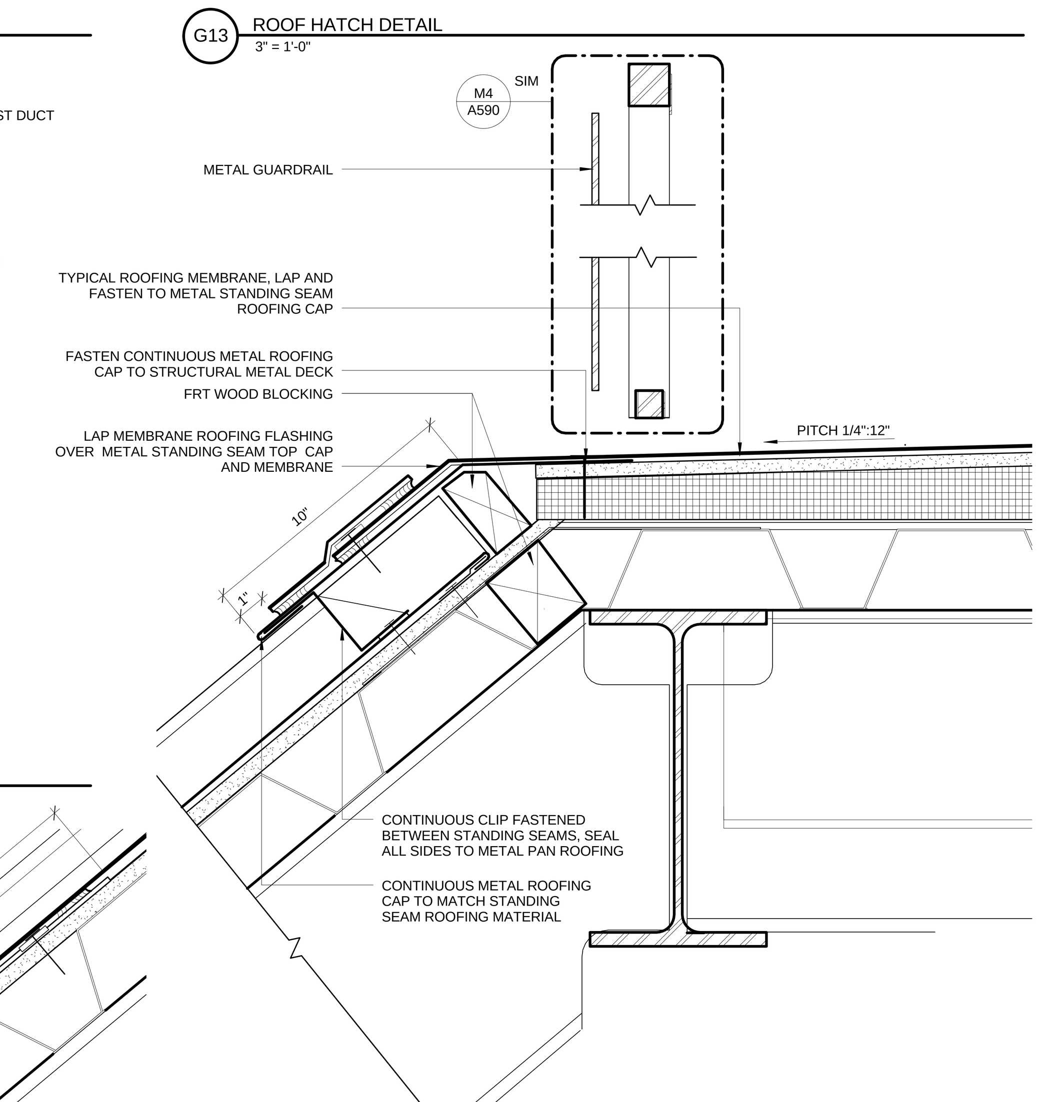
J4 ROOF FASCIA & GUTTER DETAIL AT BRIDGE
1 1/2" = 1'-0"



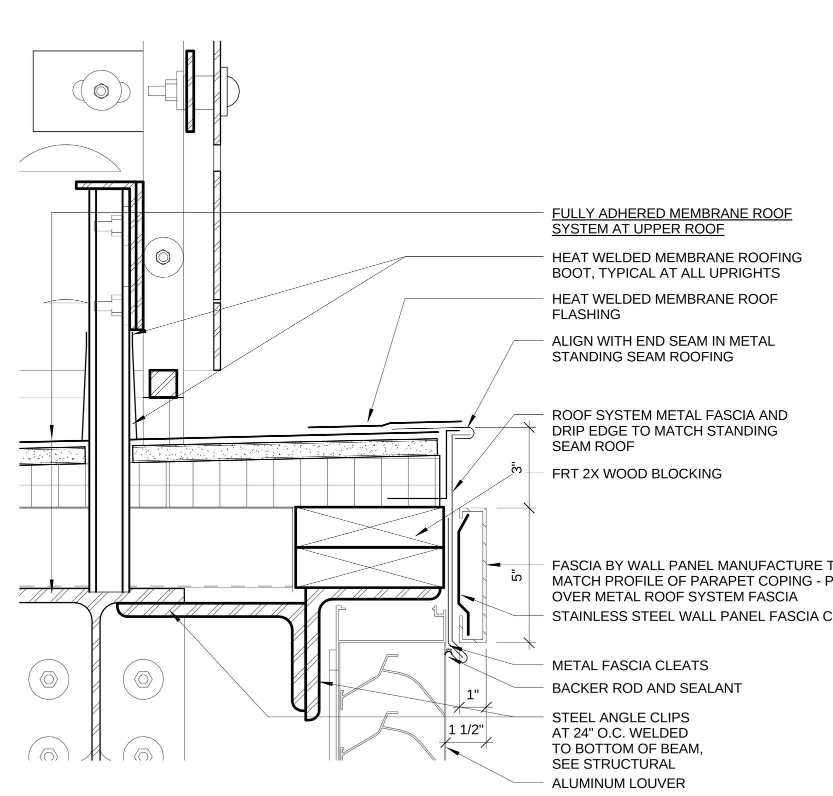
J8 LOW-SLOPE ROOF AT METAL WALL PANEL AT COOLING TOWERS
1 1/2" = 1'-0"



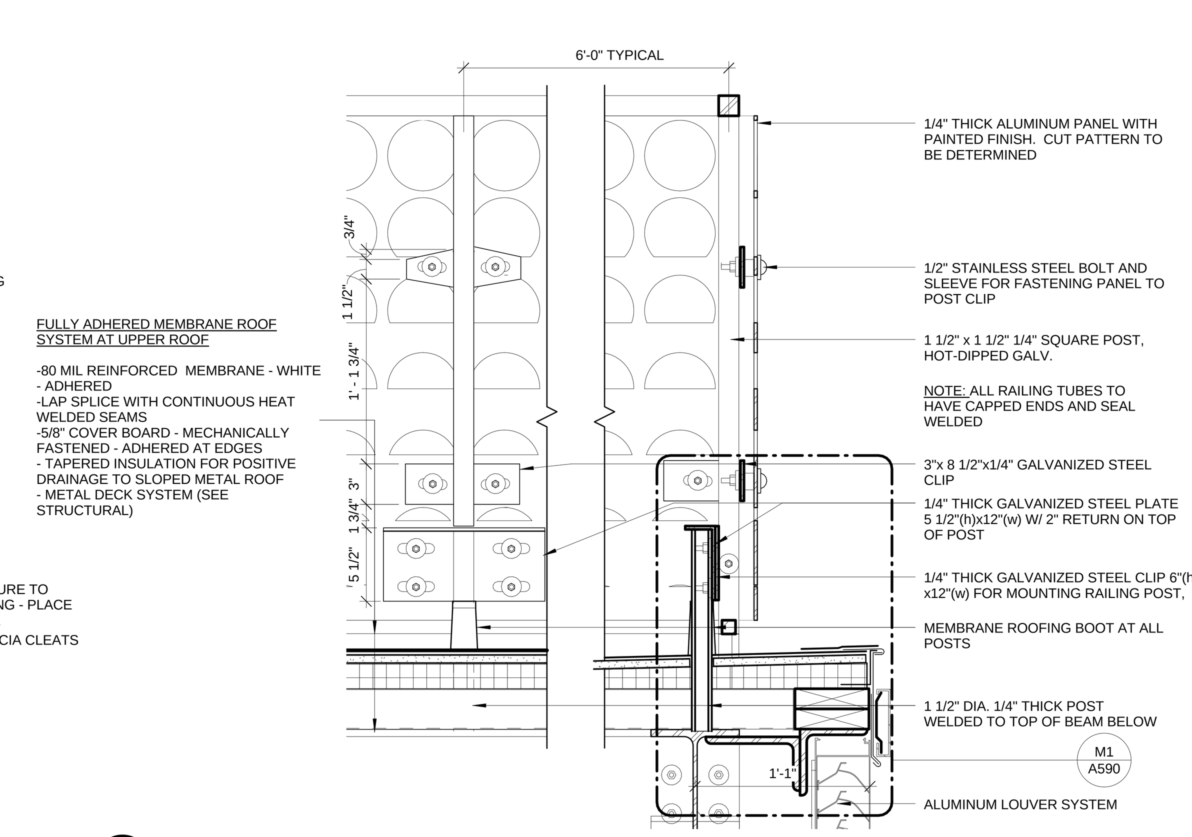
J11 ROOF DETAIL AT FUME HOOD EXHAUST
3" = 1'-0"



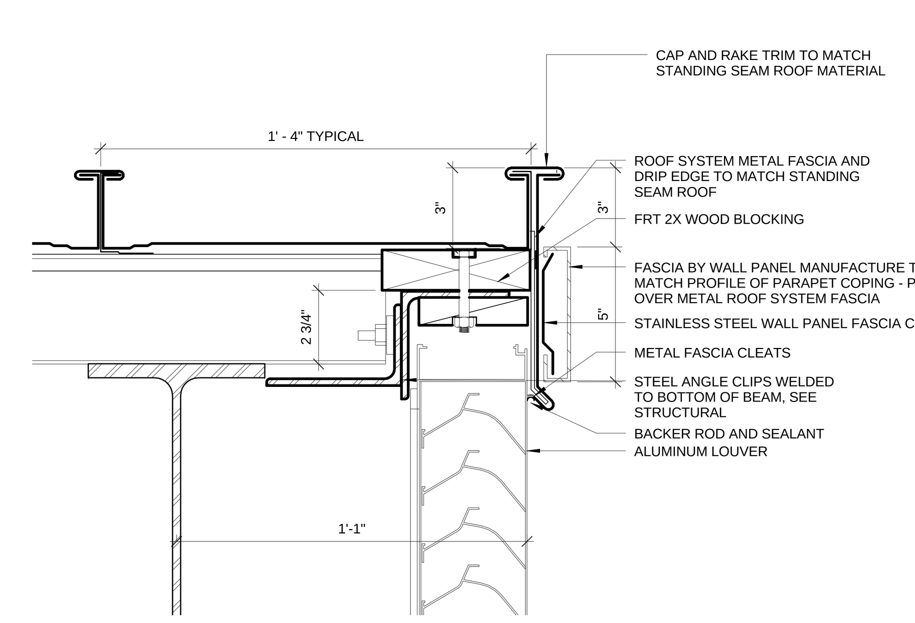
L13 SLOPED STANDING SEAM METAL ROOF TRANSITION TO LOW-SLOPE ROOF
3" = 1'-0"



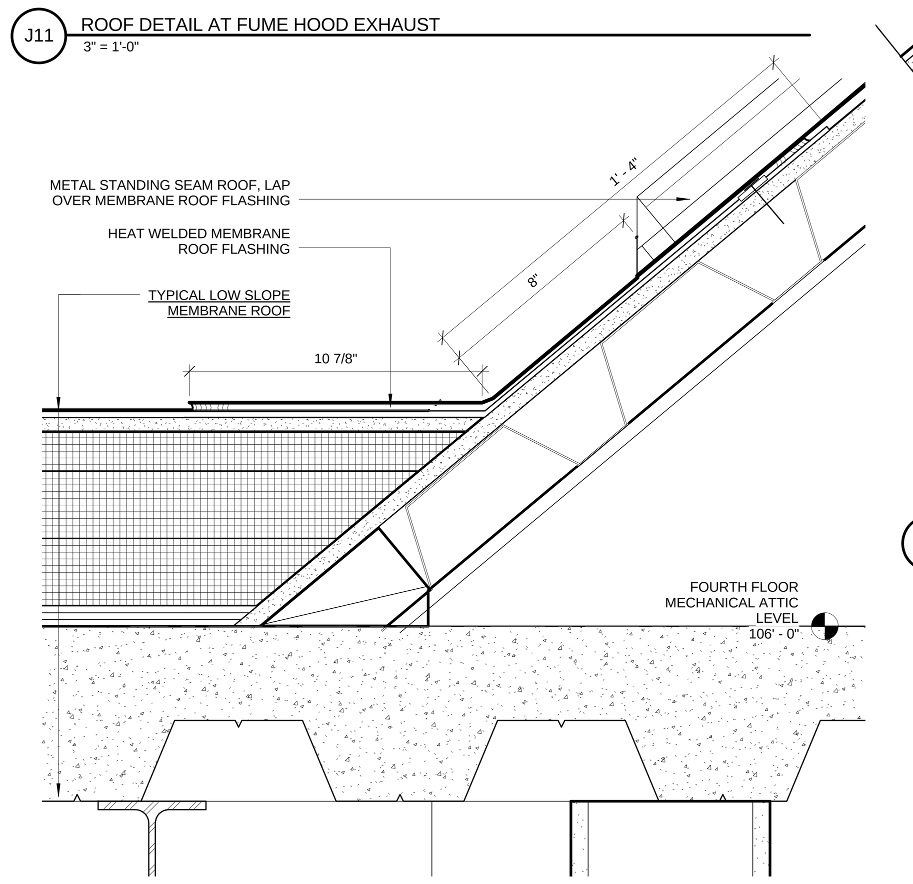
M1 EDGE DETAIL AT PVC ROOFING ABOVE LOUVER
3" = 1'-0"



M4 ROOFING EDGE DETAIL AT RAILING AND LOUVER
1 1/2" = 1'-0"



M8 SLOPED METAL ROOF AT LOUVER HEAD
3" = 1'-0"



M11 LOW-SLOPE ROOF TRANSITION TO STANDING SEAM METAL ROOF
3" = 1'-0"

drawing title: ROOF, GUTTER & DOWNSPOUT DETAILS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES	volume: 1 of 2
REVISIONS — mark / date / description: 11-21-2012 Bid Documents	DRAWING PREPARED BY: Centerbrook Architects and Planners, LLP 67 Main Street Post Office Box 955 Centerbrook, Connecticut 06409-0955	date: 11-21-2012 scale: As indicated
	project: SCSU NEW ACADEMIC LABORATORY BUILDING	drawn by: TCT/LT/AS approved by: RM/JBR
	CAD no.: 1393 / project no.: BI-RS-283	drawing no.: A590

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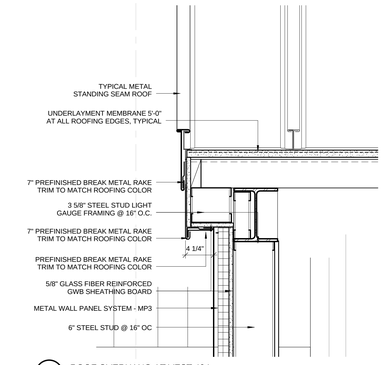
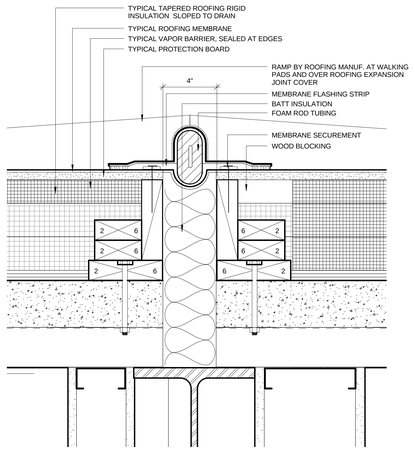
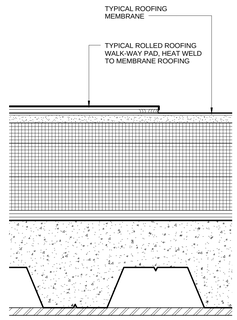


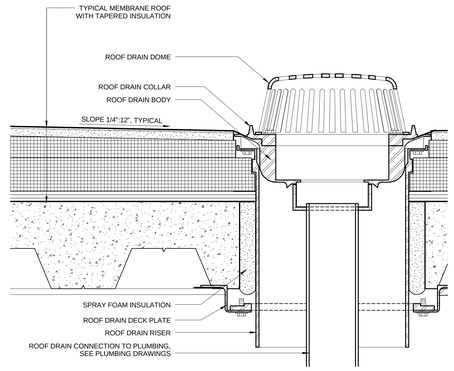
C1 ROOF OVERHANG AT VEST 404
1 1/2" = 1'-0"



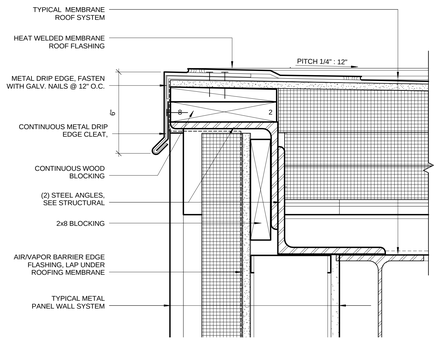
C4 LOW-SLOPE ROOF EXPANSION JOINT DETAIL
3" = 1'-0"



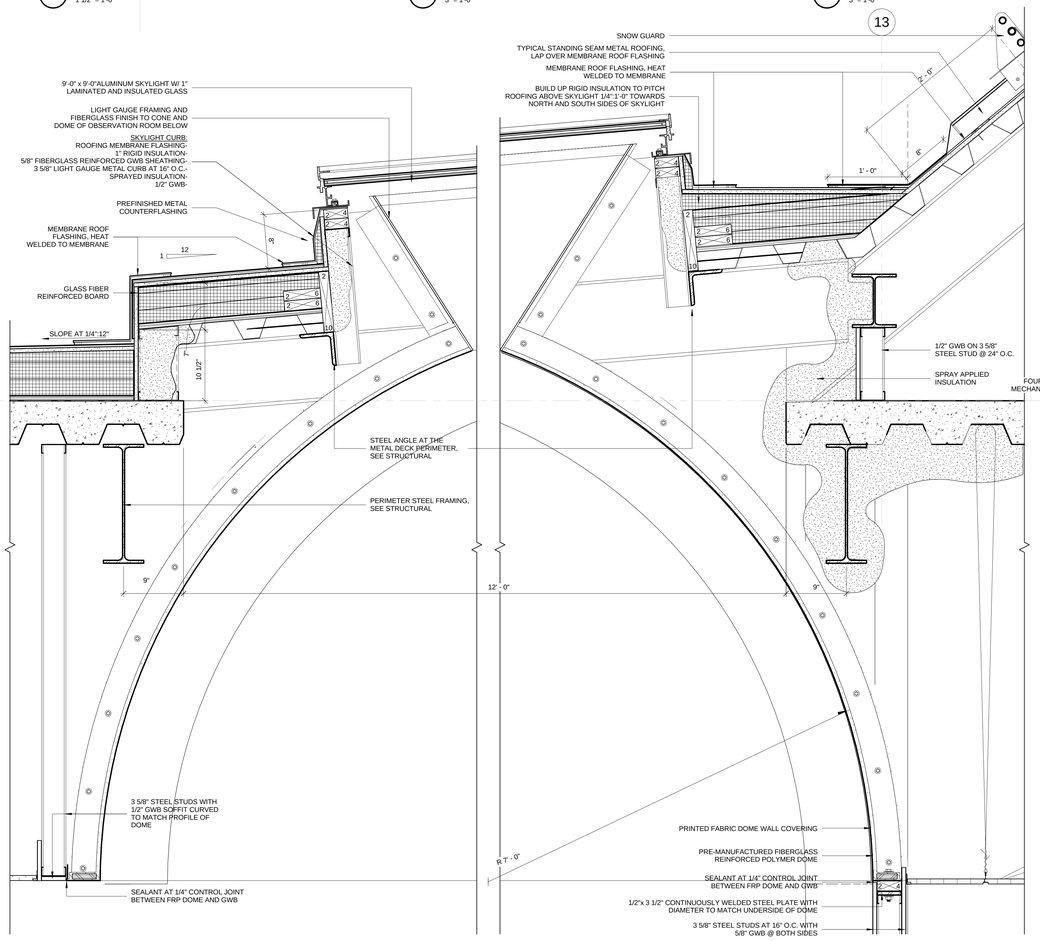
C6 WALK-WAY PAD DETAIL
3" = 1'-0"



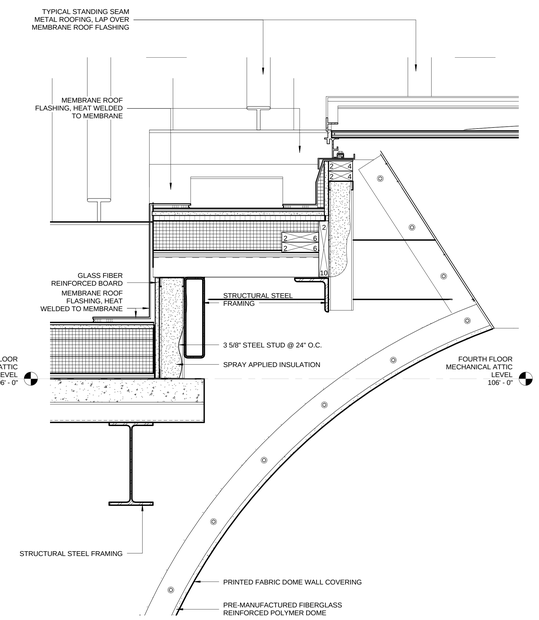
C8 ROOF DRAIN DETAIL
3" = 1'-0"



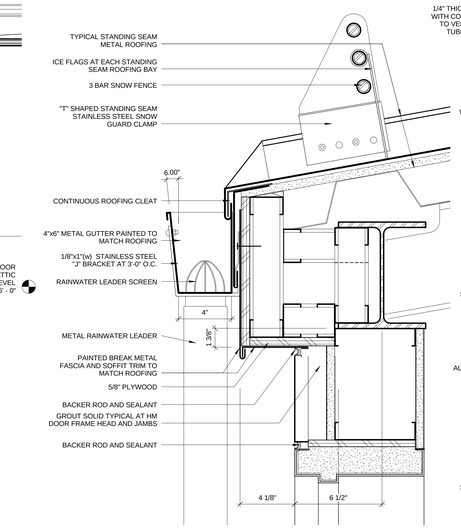
C11 ROOF FASCIA AT VEST 401
3" = 1'-0"



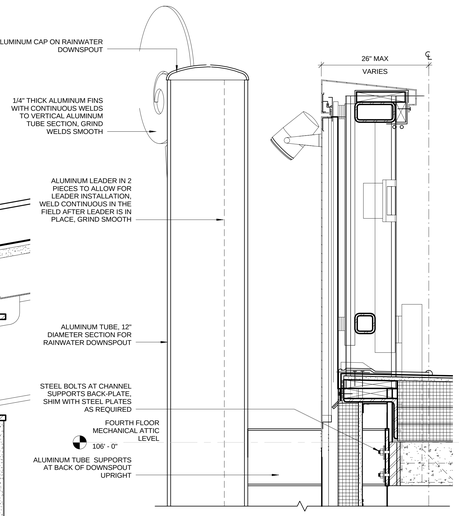
K7 SKYLIGHT CURB DETAIL 1
1 1/2" = 1'-0"

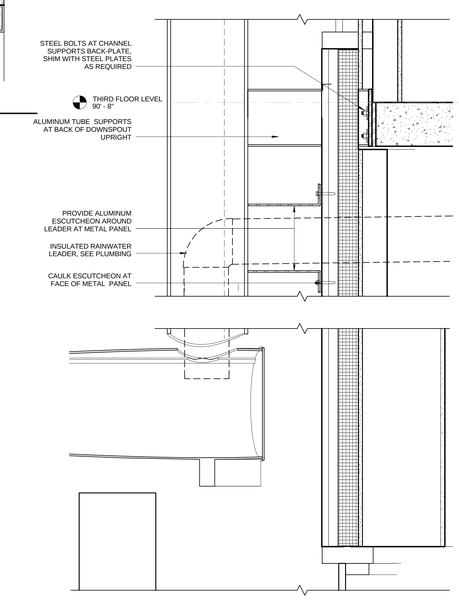


H8 SKYLIGHT CURB DETAIL 2
1 1/2" = 1'-0"

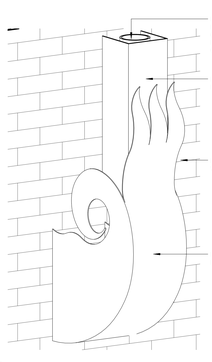


H11 ROOF FASCIA AT MECHANICAL VESTIBULE
3" = 1'-0"

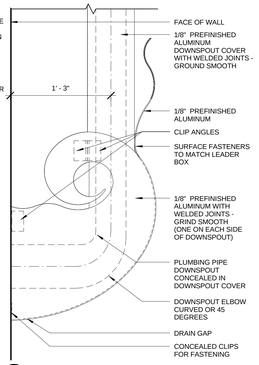




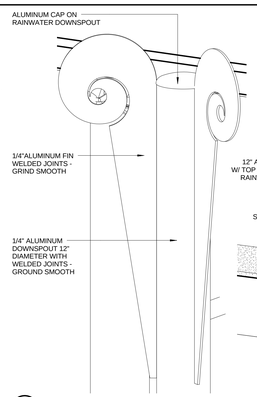
L13 SECTION AT RAINWATER LEADER
1 1/2" = 1'-0"



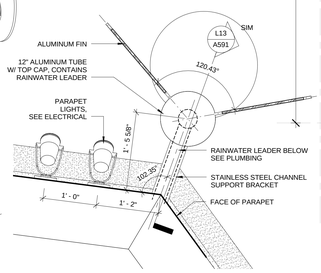
M1 DOWNSPOUT ELBOW - PERSPECTIVE



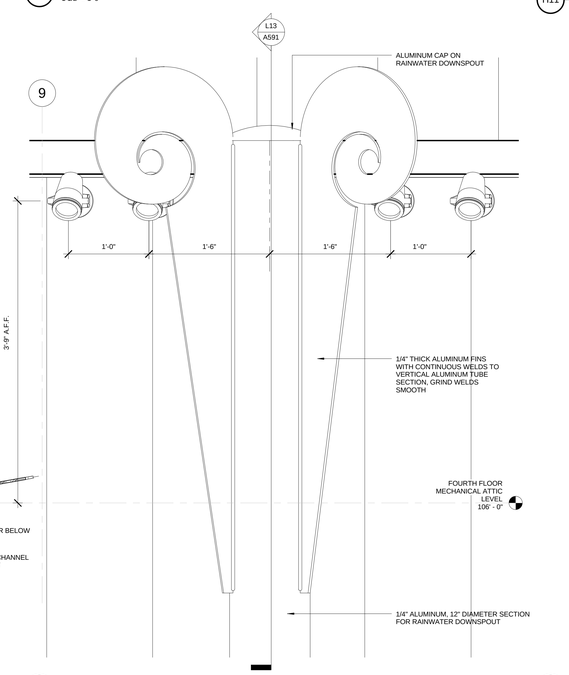
M2 DOWN SPOUT ELBOW - SIDE VIEW
1 1/2" = 1'-0"



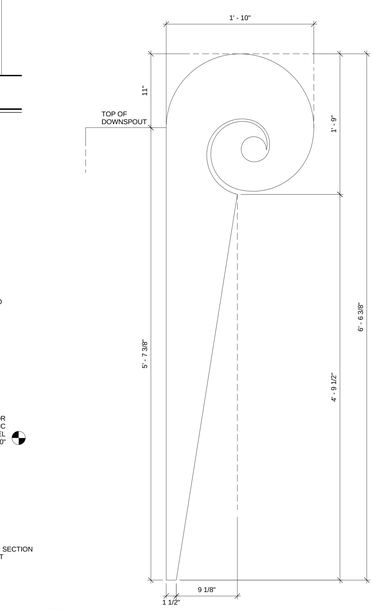
M4 DOWNSPOUT FINIAL - PERSPECTIVE



M6 RAINWATER LEADER PLAN
1" = 1'-0"



M8 DOWNSPOUT FINIAL ELEVATION
1 1/2" = 1'-0"



M11 DOWNSPOUT FINIAL - SIDE VIEW
1 1/2" = 1'-0"

drawing title: ROOF, GUTTER & DOWNSPOUT DETAILS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		volume 1 of 2
REVISIONS			date 11-21-2012
mark / date / description	DRAWING: Centerbrook Architects and Planners, LLP, 67 Main Street, Post Office Box 955, Centerbrook, Connecticut 06409-0955		scale As indicated
11-21-2012 Bid Documents	project: SCSU NEW ACADEMIC LABORATORY BUILDING		drawn by TCT
			approved by RM/JBR
	CAD file 1393	project no. BI-RS-283	drawing no. A591

Clifford Graf Hall 791 SCSU New Academic and Laboratory Building 611 Crentry Graphics
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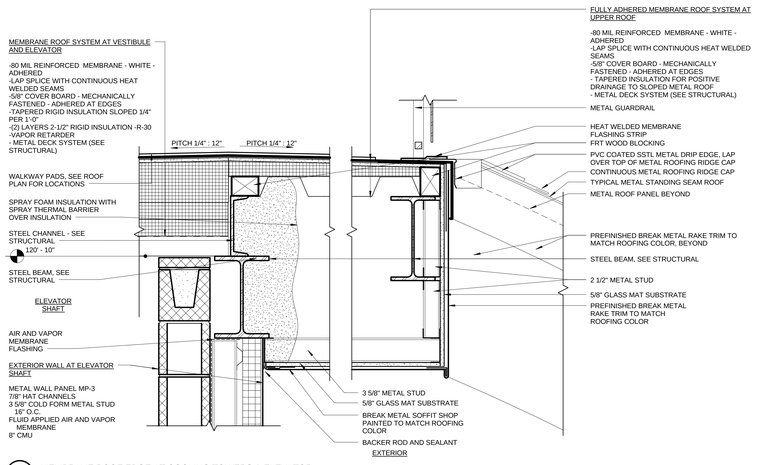
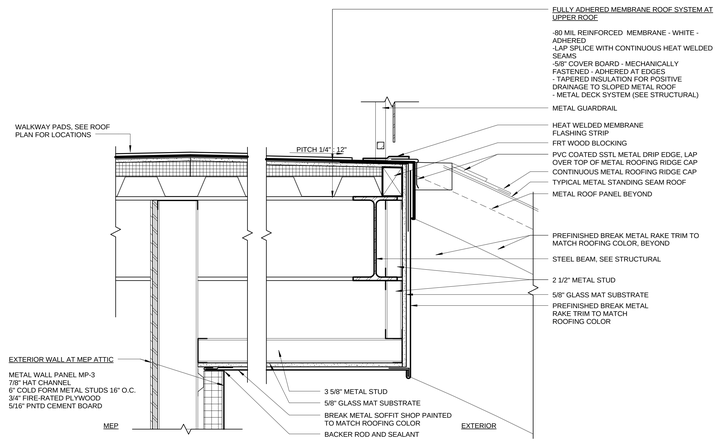
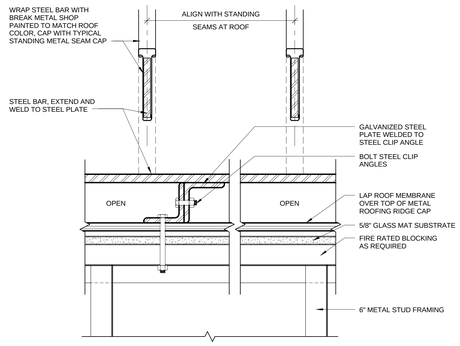


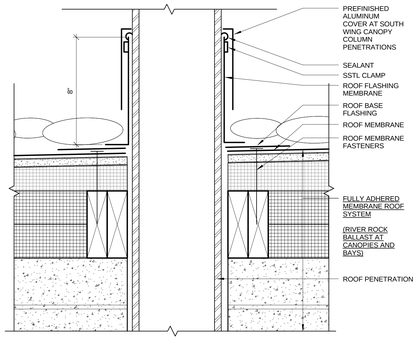
C4 MEMBRANE ROOF EDGE AT COOLING TOWERS & ELEVATOR
1 1/2" = 1'-0"



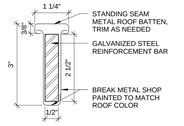
C9 MEMBRANE ROOF EDGE AT COOLING TOWERS & MEP ATTIC
1 1/2" = 1'-0"



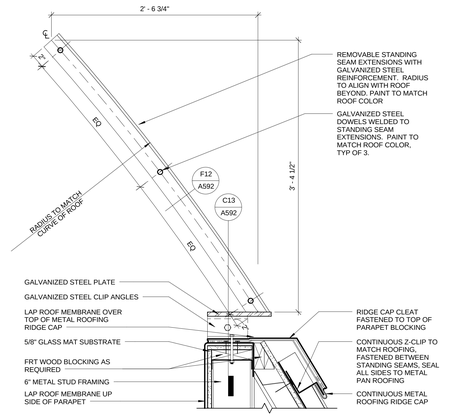
C13 CONNECTION DETAIL AT REMOVEABLE STANDING SEAM 2
3" = 1'-0"



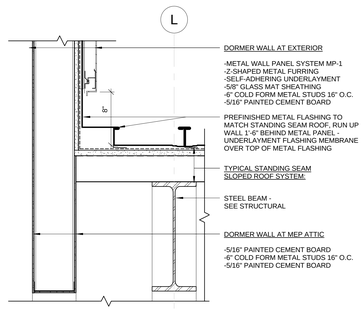
F9 TYPICAL ROOF PENETRATION DETAIL
3" = 1'-0"



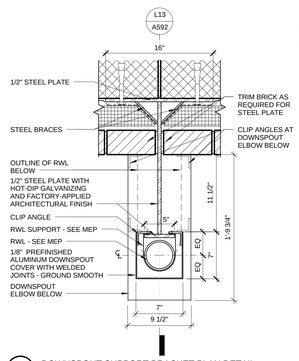
F12 REMOVEABLE STANDING SEAM CROSS SECTION
6" = 1'-0"



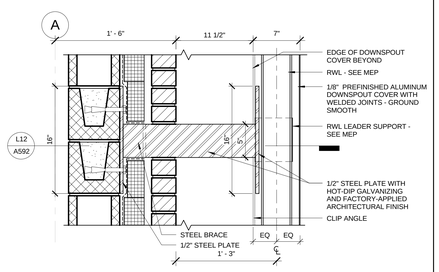
F13 CONNECTION DETAIL AT REMOVEABLE STANDING SEAM 1
1 1/2" = 1'-0"



J13 MP-1 AT STANDING SEAM METAL ROOF
1 1/2" = 1'-0"



L12 DOWNSPOUT SUPPORT BRACKET PLAN DETAIL
1 1/2" = 1'-0"



L13 DOWNSPOUT SUPPORT BRACKET SECTION DETAIL
1 1/2" = 1'-0"

drawing title
ROOF, GUTTER & DOWNSPOUT DETAILS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

sheet
1 of 2
date
11-21-2012
scale
As indicated
drawn by
LT/AS
checked by
RMJ/BR
drawing no.
A592

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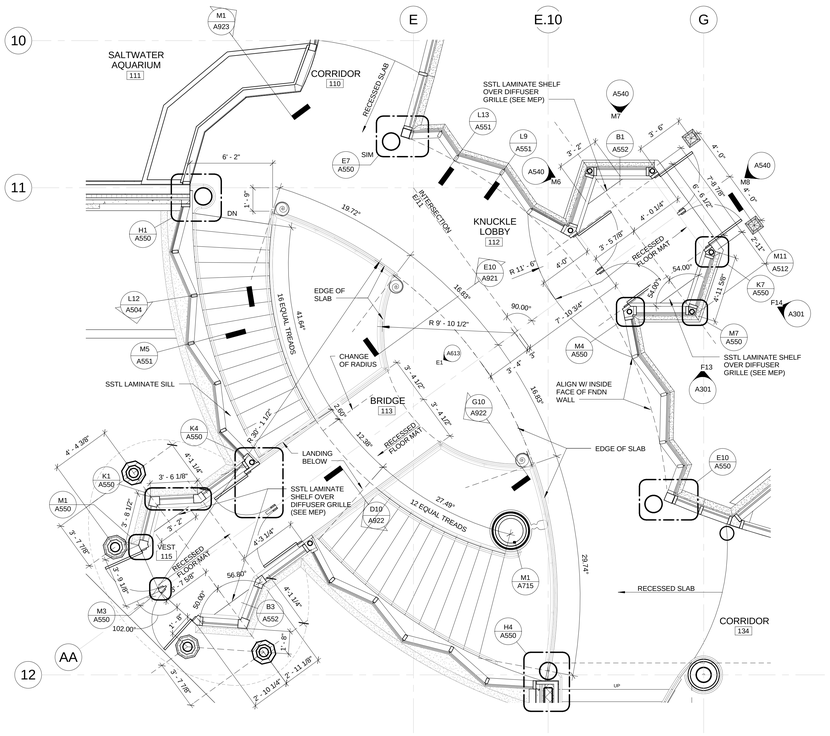
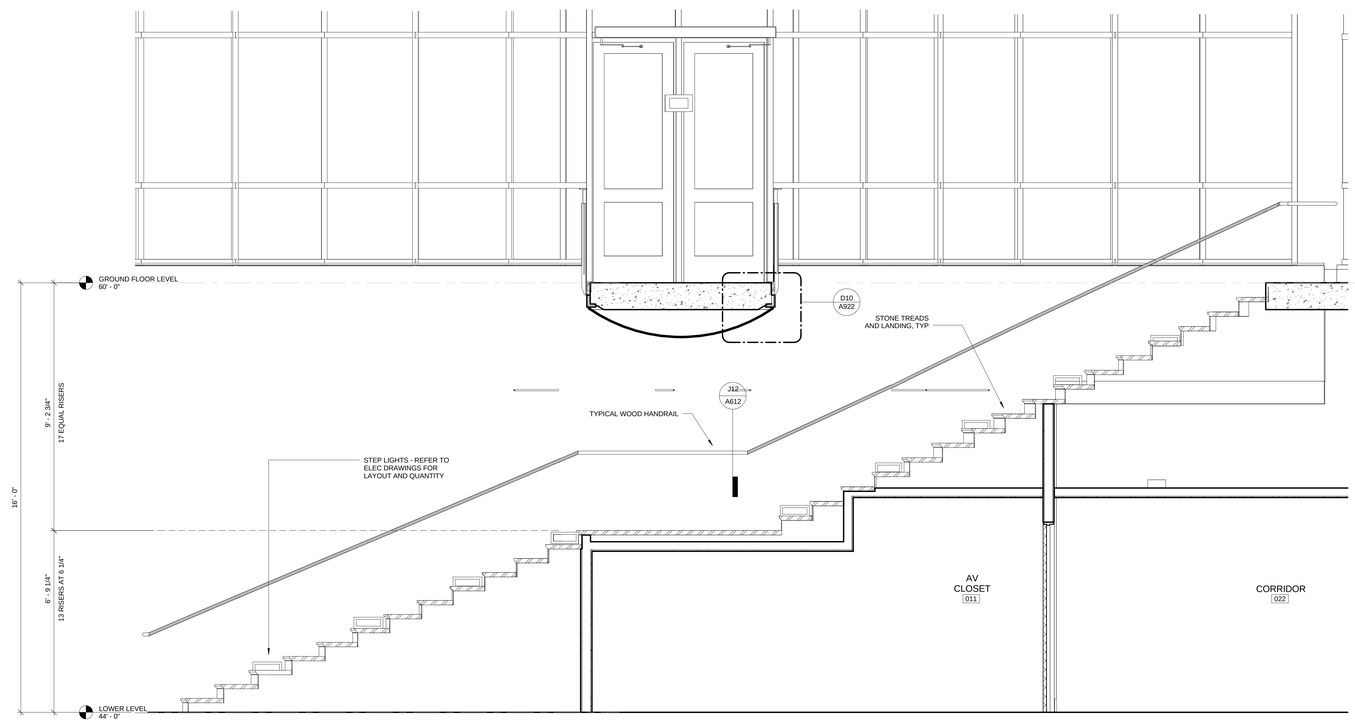
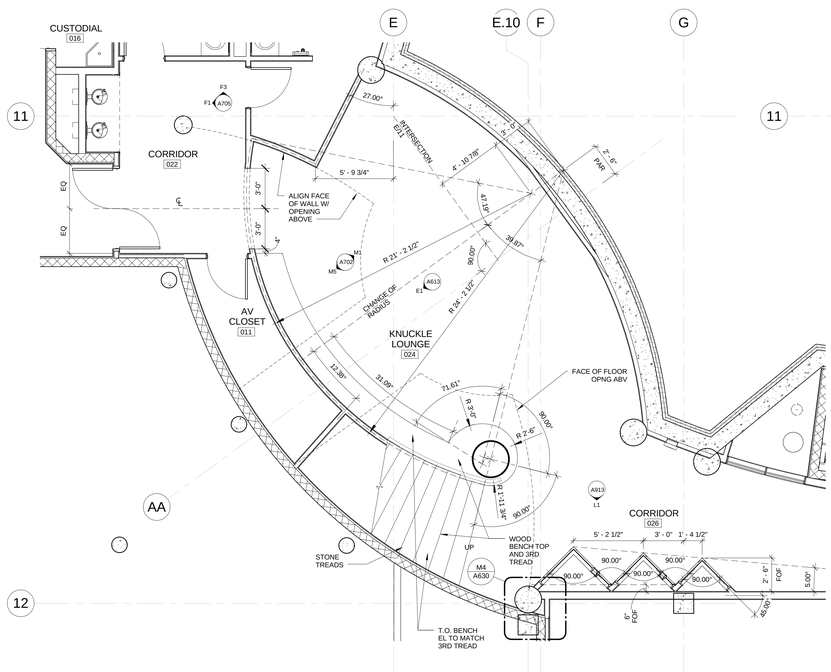


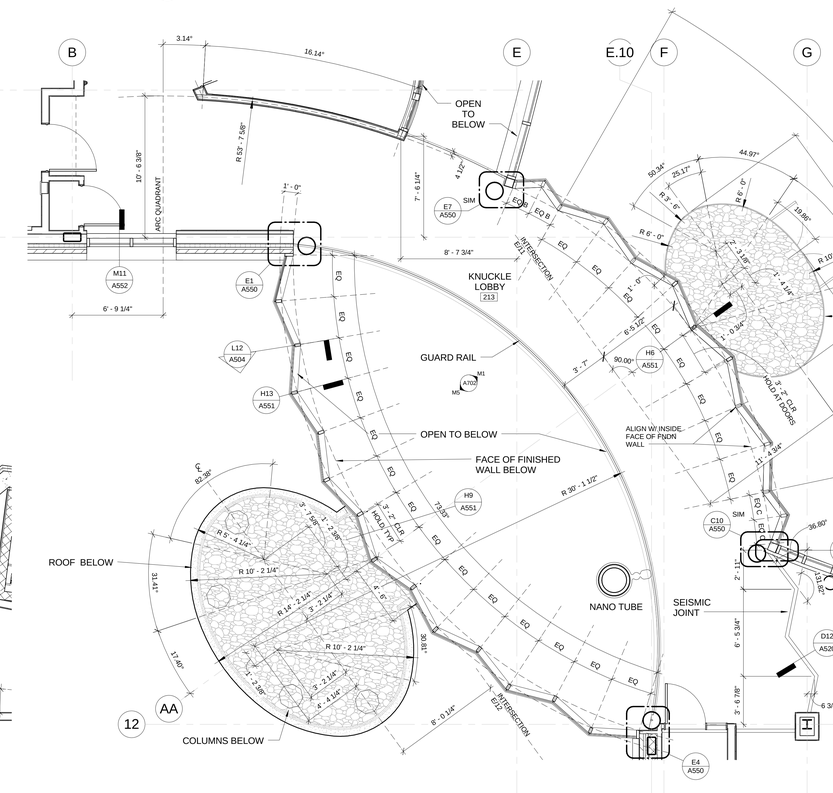
F1 ENLARGED PLAN OF KNUCKLE - GROUND FLOOR
1/4" = 1'-0"



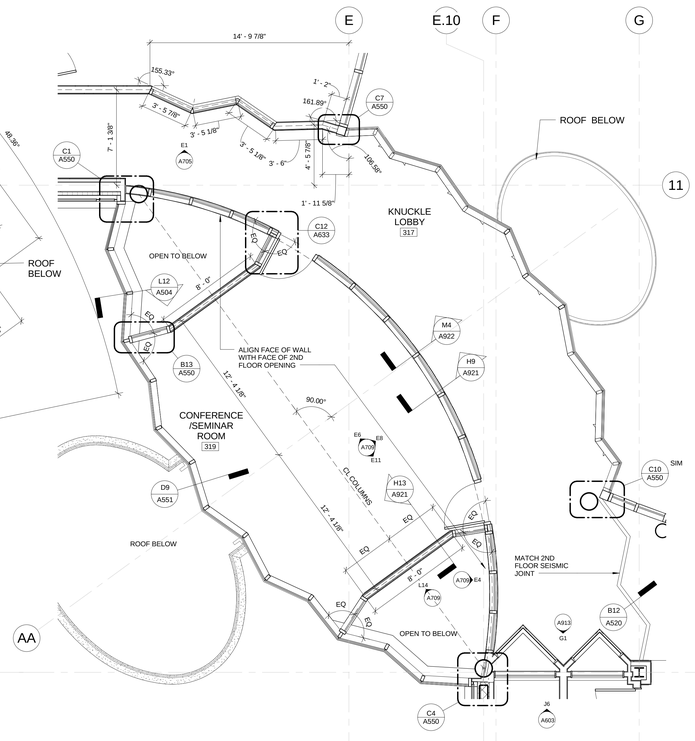
E7 SECTION THROUGH STAIR 6
1/2" = 1'-0"



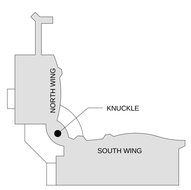
L1 ENLARGED PLAN OF KNUCKLE - LOWER LEVEL
1/4" = 1'-0"



L8 ENLARGED PLAN OF KNUCKLE - SECOND FLOOR
1/4" = 1'-0"



L11 ENLARGED PLAN OF KNUCKLE - THIRD FLOOR
1/4" = 1'-0"



drawing title: ENLARGED PLANS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		volume: 1 of 2
REVISIONS			date: 11-21-2012
mark / date / description: 11-21-2012 Bid Documents	DRAWING PREPARED BY: Centerbrook Architects and Planners, LLP 67 Main Street Post Office Box 955 Centerbrook, Connecticut 06409-0955		scale: As indicated
	project: SCSU NEW ACADEMIC LABORATORY BUILDING		drawn by: EL
			checked by: RMJ/BR
	CAD no. 1393	project no. BI-RS-283	drawing no. A601

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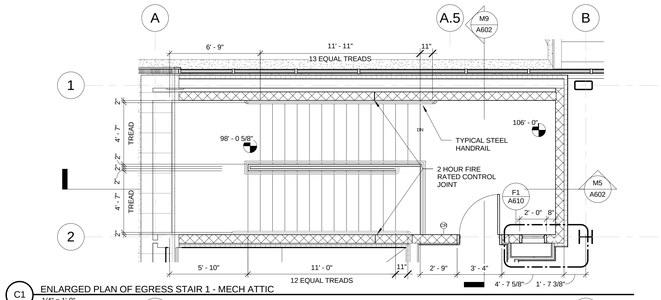
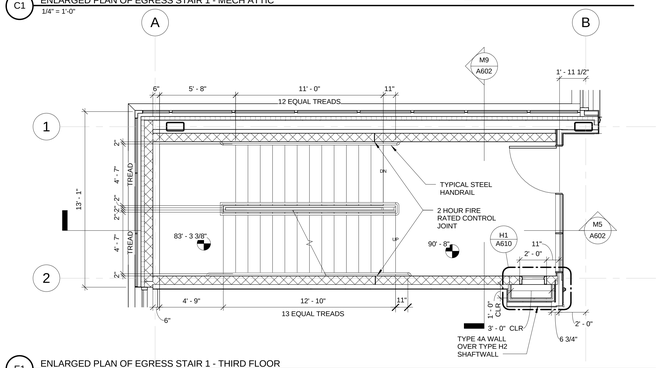
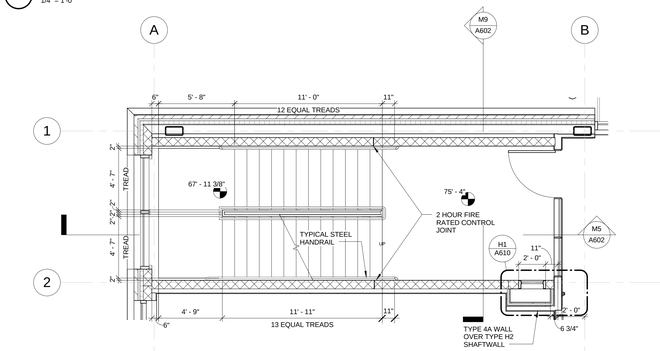


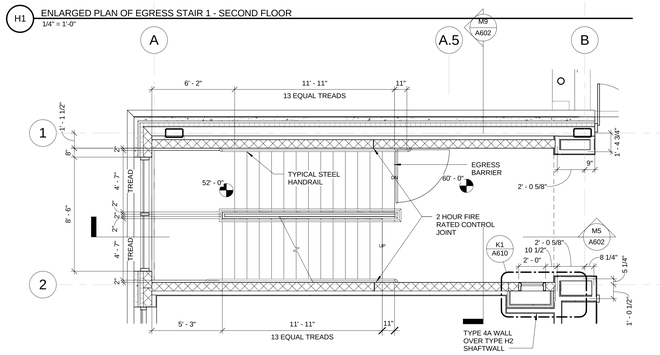
C1 ENLARGED PLAN OF EGRESS STAIR 1 - MECH ATTIC
1/4" = 1'-0"



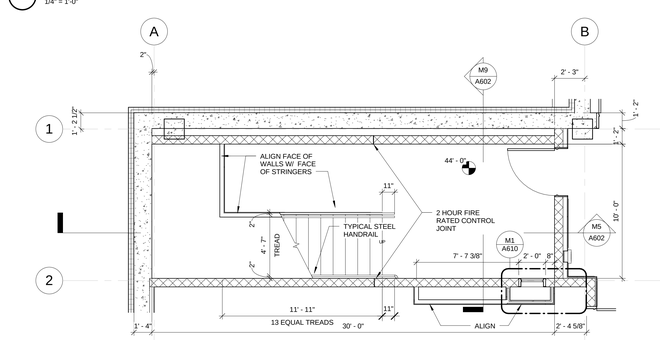
E1 ENLARGED PLAN OF EGRESS STAIR 1 - THIRD FLOOR
1/4" = 1'-0"



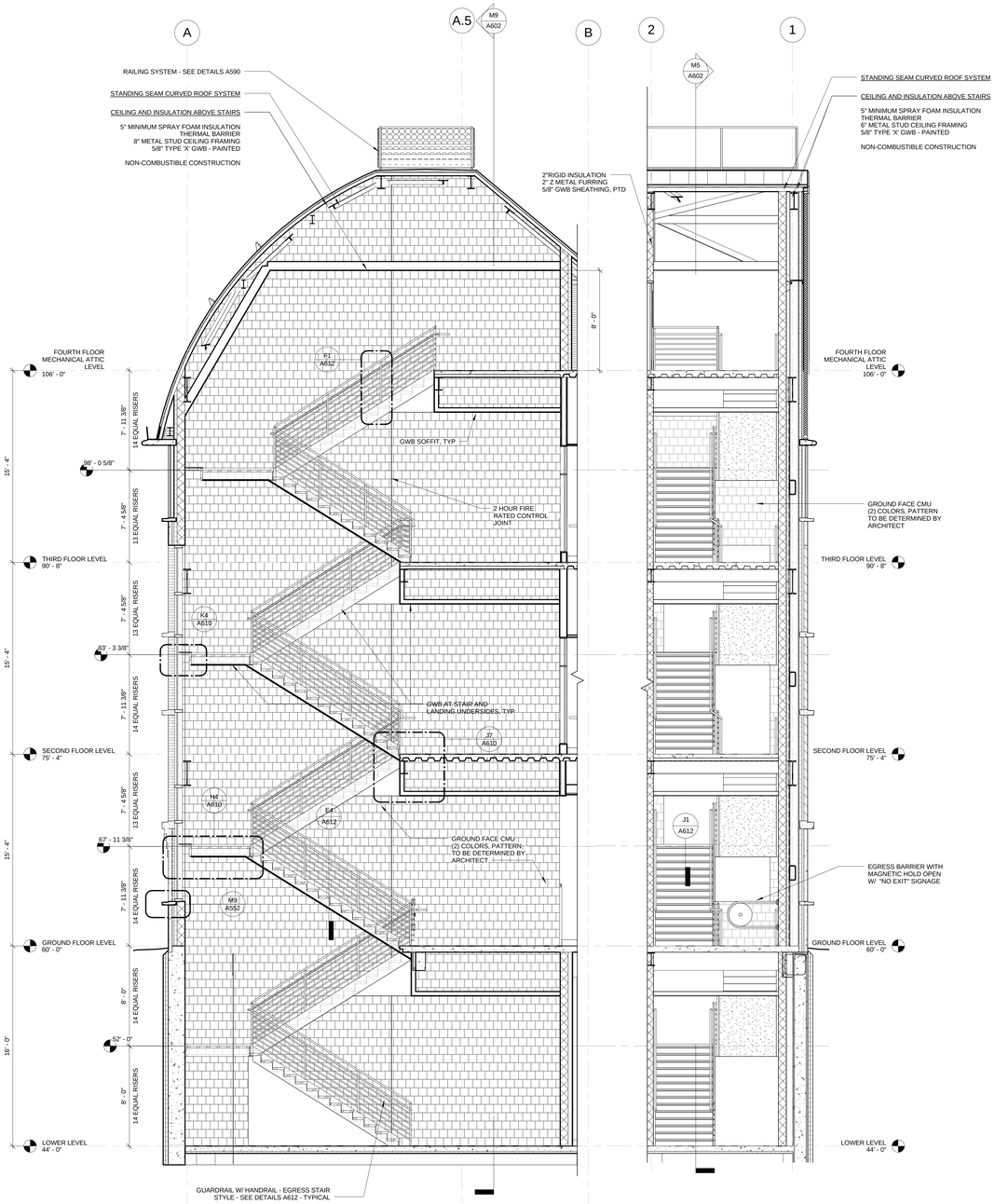
H1 ENLARGED PLAN OF EGRESS STAIR 1 - SECOND FLOOR
1/4" = 1'-0"



K1 ENLARGED PLAN OF EGRESS STAIR 1 - GROUND FLOOR
1/4" = 1'-0"

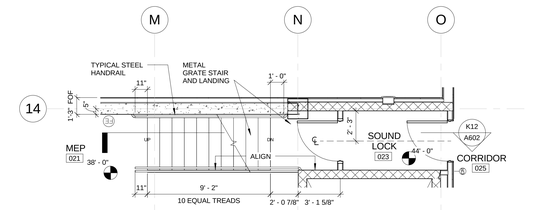


M1 ENLARGED PLAN OF EGRESS STAIR 1 - LOWER LEVEL
1/4" = 1'-0"

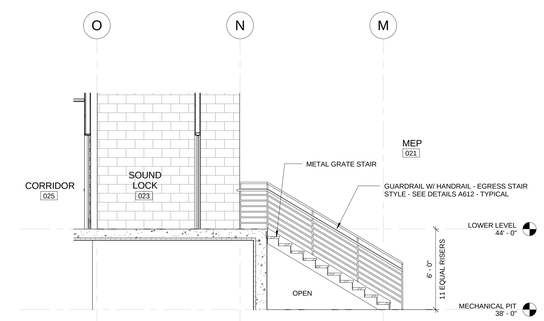


M5 EGRESS STAIR 1 - NORTH SOUTH SECTION
1/4" = 1'-0"

M9 EGRESS STAIR 1 - EAST WEST SECTION
1/4" = 1'-0"



H12 ENLARGED PLAN OF STAIR 5
1/4" = 1'-0"



K12 STAIR 5 - NORTH SOUTH SECTION
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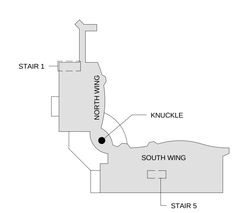

drawing title: ENLARGED STAIR PLANS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		volume: 1 of 2
REVISIONS mark / date / description 11-21-2012 Bid Documents	DRAWING: Centerbrook Architects and Planners, LLP 67 Main Street Post Office Box 955 Centerbrook, Connecticut 06409-0955		date: 11-21-2012 scale: As indicated
	project: SCSU NEW ACADEMIC LABORATORY BUILDING		drawn by: EL reviewed by: RMJ/BR
	CAD file: 1393	project no.: BI-RS-283	drawing no.: A602

Clifford Lloyd Fitch (781) 925-2 New Academic and Laboratory Building A12 Center_Graphics
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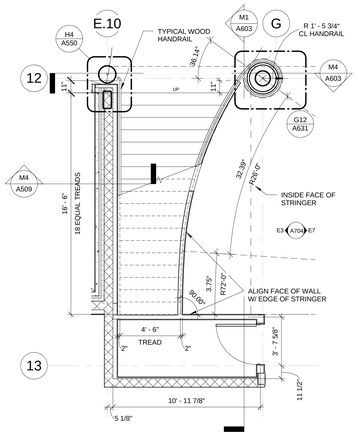
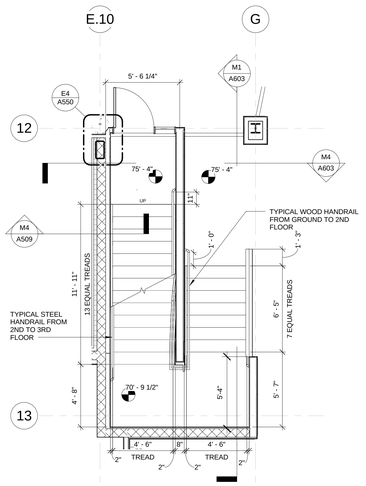
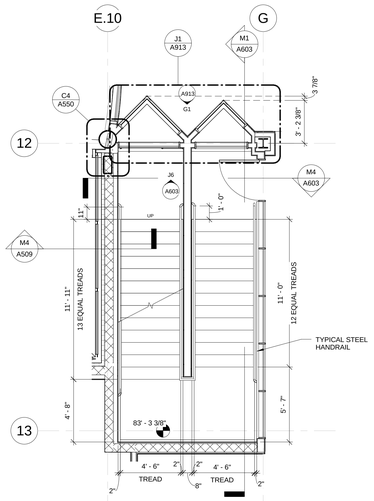


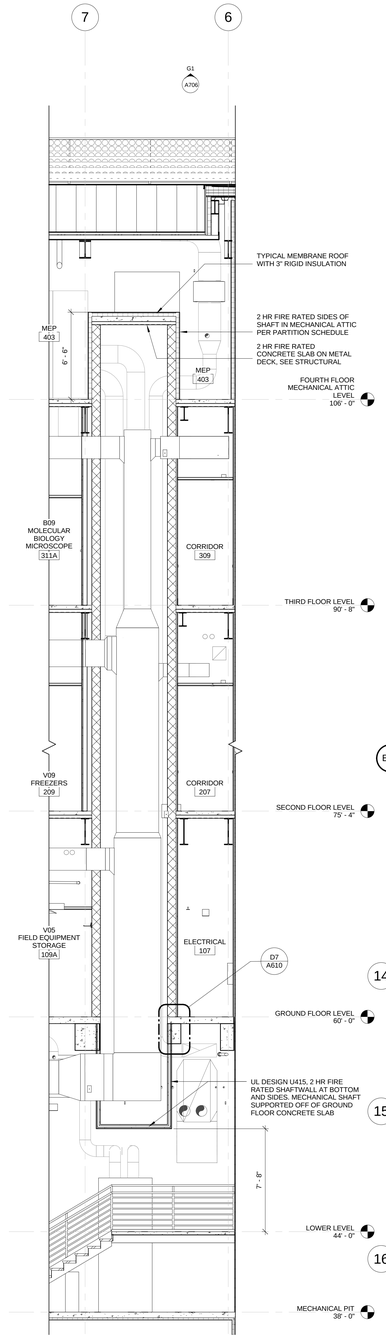
D1 ENLARGED PLAN OF STAIR 2 - GROUND FLOOR
1/4" = 1'-0"



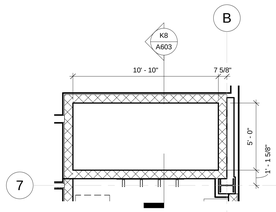
D3 ENLARGED PLAN OF STAIR 2 - SECOND FLOOR
1/4" = 1'-0"



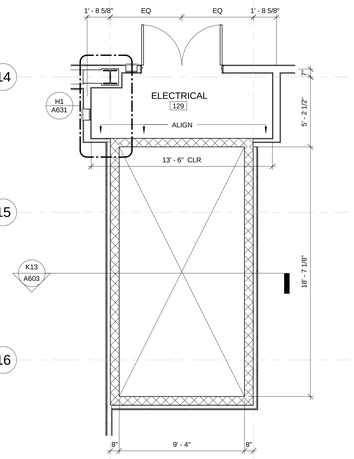
D6 ENLARGED PLAN OF STAIR 2 - THIRD FLOOR
1/4" = 1'-0"



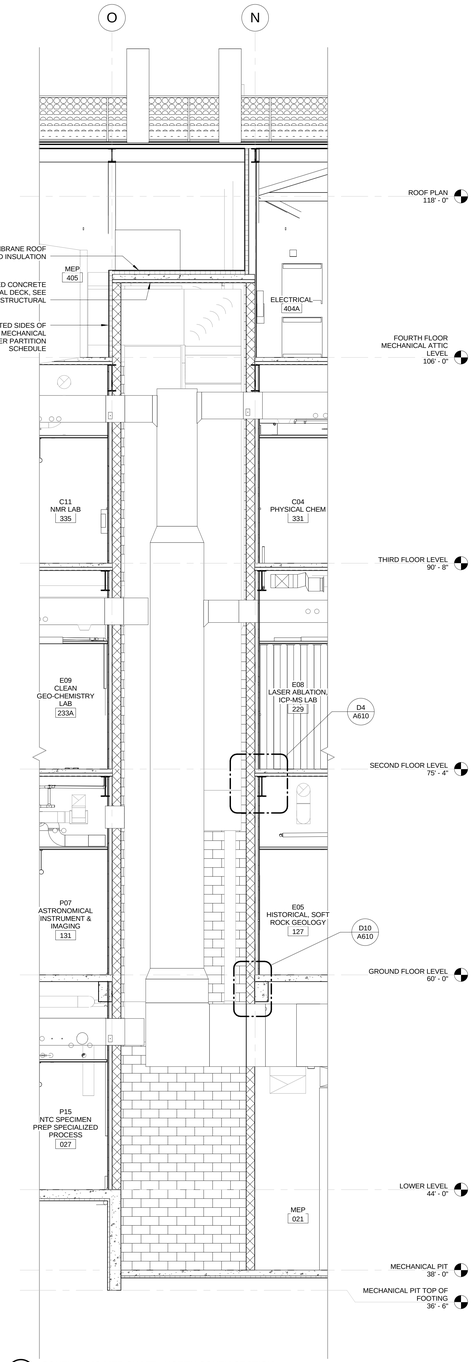
K8 NORTH WING MEP SHAFT - NORTH SOUTH SECTION
1/4" = 1'-0"



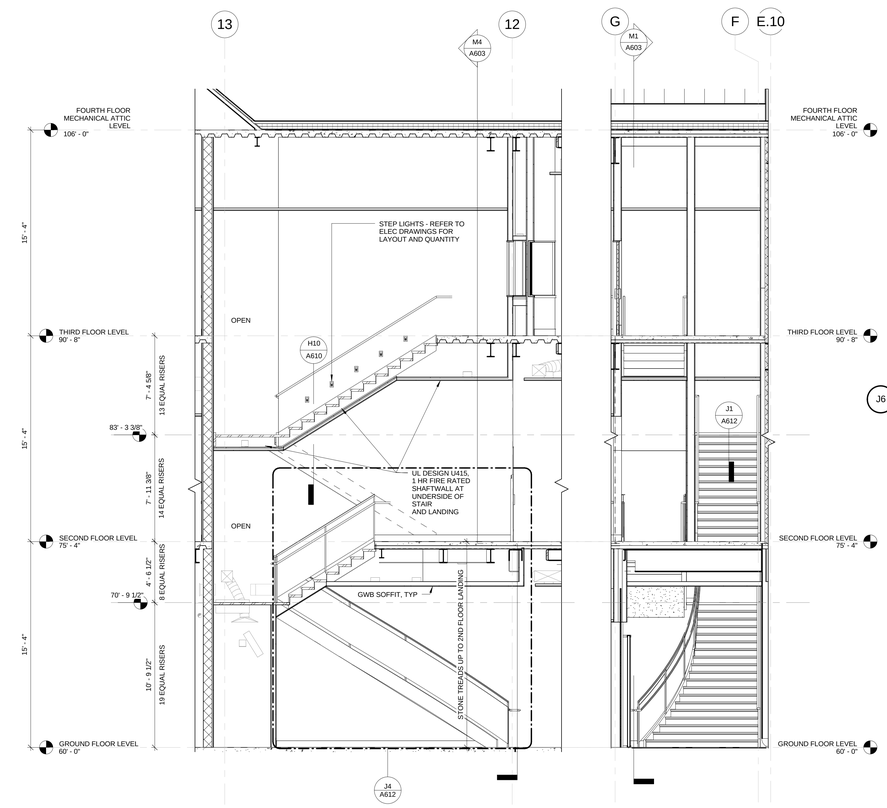
E10 ENLARGED PLAN OF NORTH WING MEP SHAFT
1/4" = 1'-0"



K10 ENLARGED PLAN OF SOUTH WING MEP SHAFT
1/4" = 1'-0"

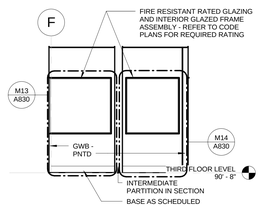


K13 SOUTH WING MEP SHAFT - NORTH SOUTH SECTION
1/4" = 1'-0"

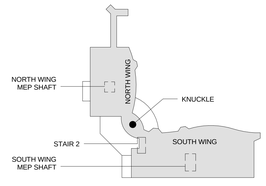


M1 STAIR 2 - EAST WEST SECTION
1/4" = 1'-0"

M4 STAIR 2 - NORTH SOUTH SECTION
1/4" = 1'-0"



J6 STAIR 2 - THIRD FLOOR - EAST ELEVATION
1/4" = 1'-0"



drawing title: ENLARGED STAIR PLANS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

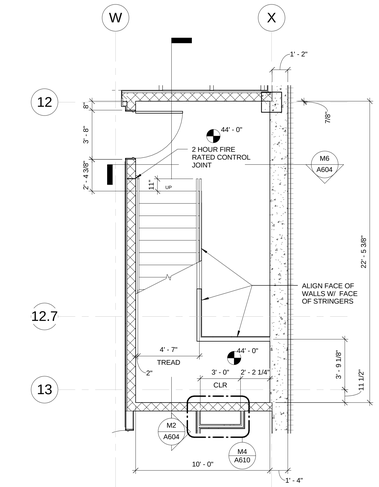
DRAWING: Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

PROJECT: SCSU NEW ACADEMIC LABORATORY BUILDING

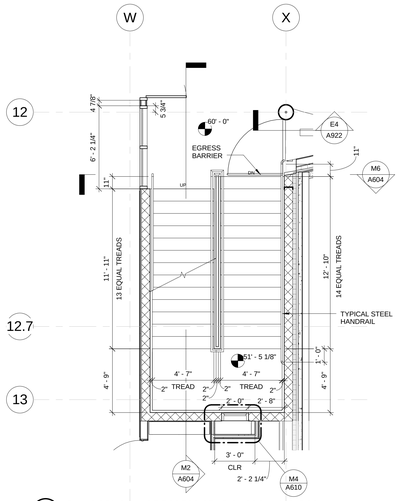
CAD: 1393 | project no.: BI-RS-283

volume: 1 of 2
date: 11-21-2012
scale: As indicated
drawn by: EL
approved by: RM/JBR
drawing no.: A603

Clifford Lloyd Reid (R) SCSU New Academic and Laboratory Building 411 Canvas_Graphics 11/21/2012 12:27:10 PM



D1 ENLARGED PLAN OF EGRESS STAIR 3 - LOWER LEVEL
1/4" = 1'-0"



D3 ENLARGED PLAN OF EGRESS STAIR 3 - GROUND FLOOR
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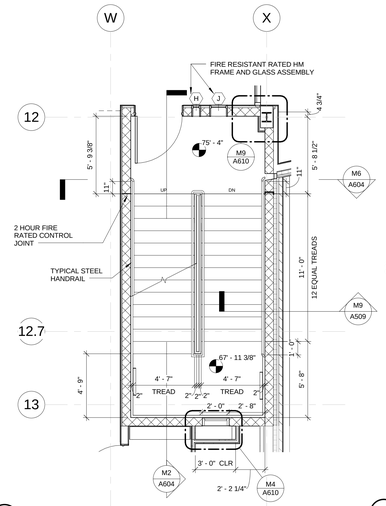
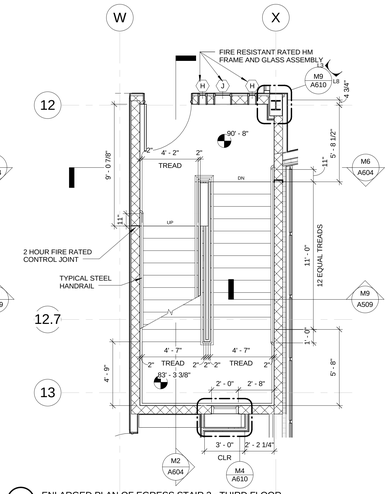
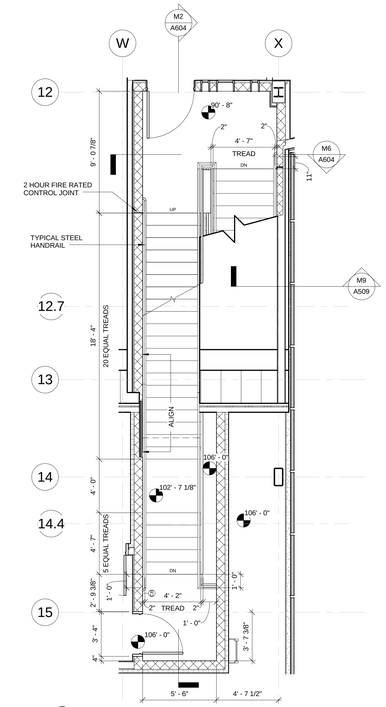


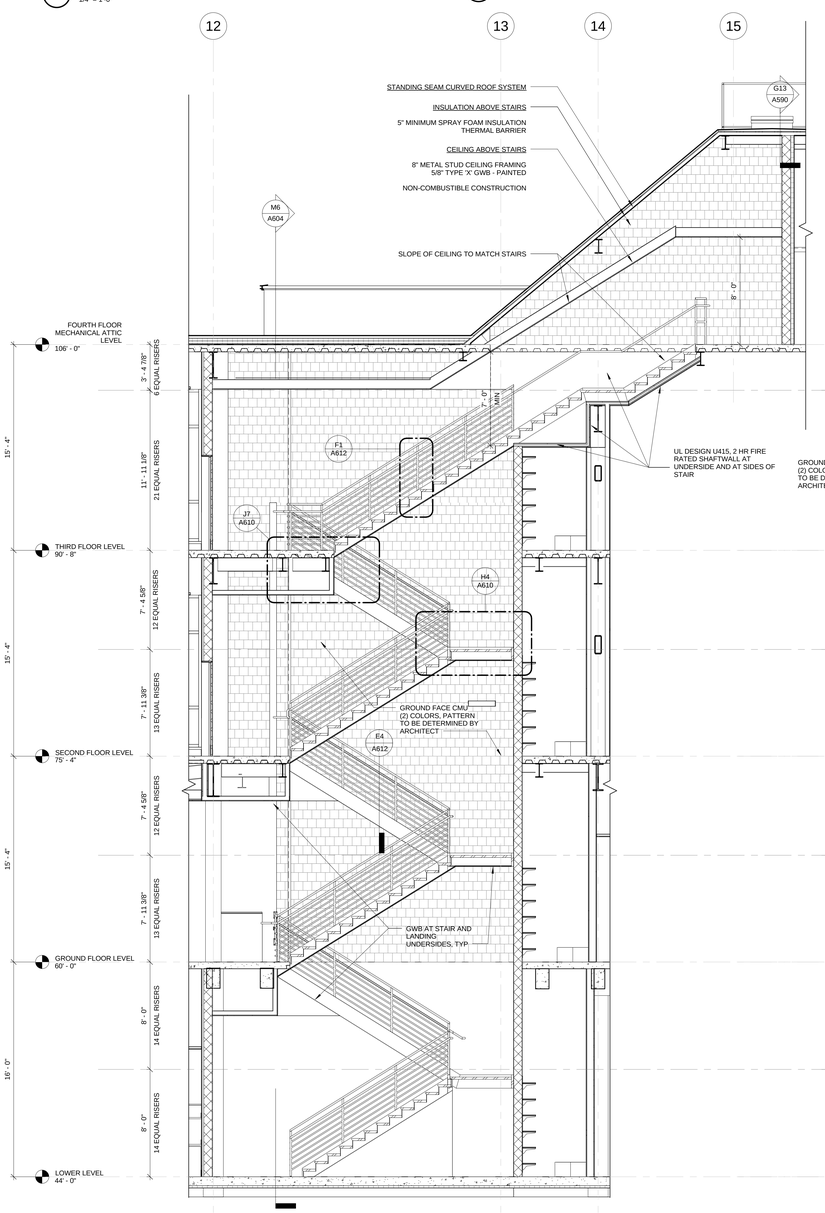
D6 ENLARGED PLAN OF EGRESS STAIR 3 - SECOND FLOOR
1/4" = 1'-0"



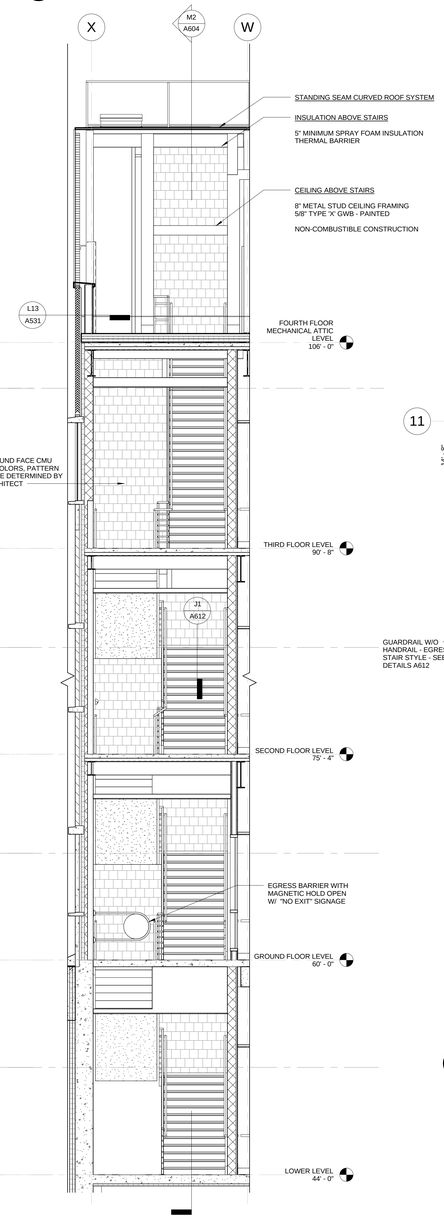
D8 ENLARGED PLAN OF EGRESS STAIR 3 - THIRD FLOOR
1/4" = 1'-0"



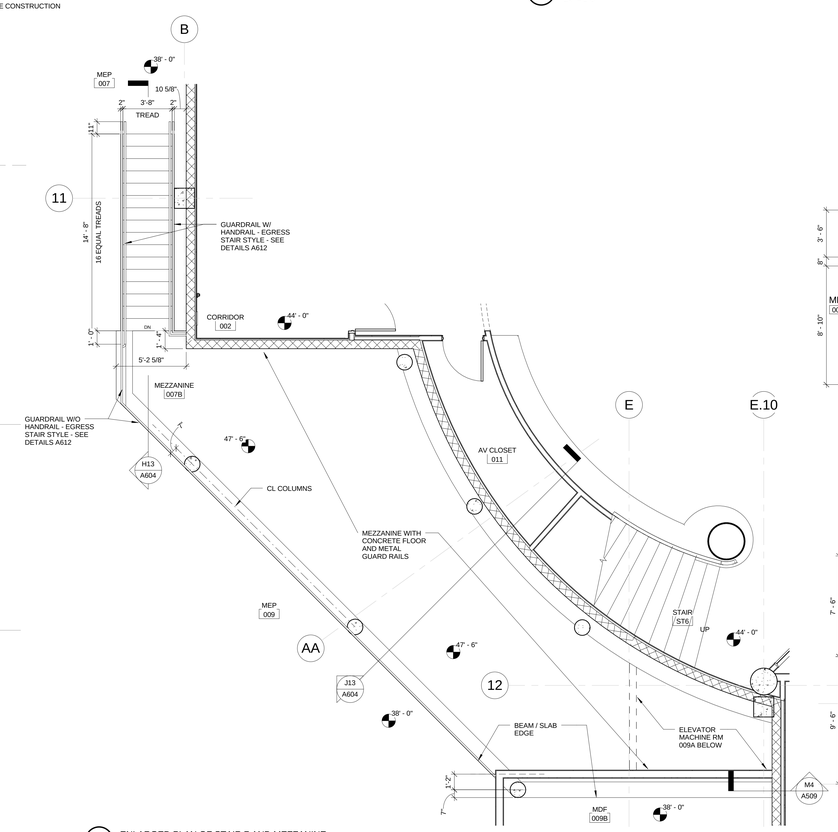
E11 ENLARGED PLAN OF EGRESS STAIR 3 - MECH ATTIC
1/4" = 1'-0"



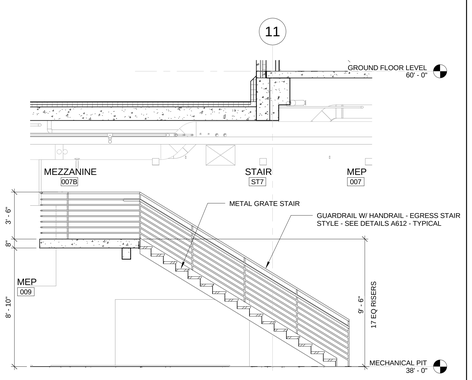
M2 EGRESS STAIR 3 - EAST WEST SECTION
1/4" = 1'-0"



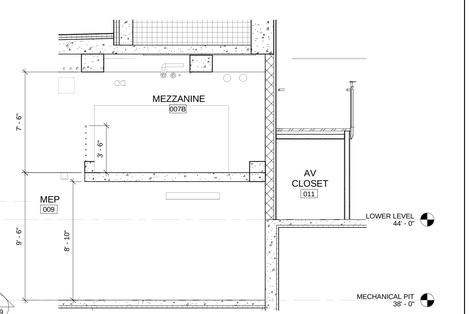
M6 EGRESS STAIR 3 - NORTH SOUTH SECTION
1/4" = 1'-0"



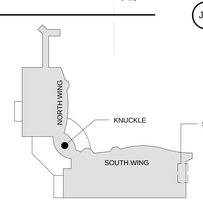
J8 ENLARGED PLAN OF STAIR 7 AND MEZZANINE
1/4" = 1'-0"



H13 STAIR 7 AND MEZZANINE - EAST WEST SECTION
1/4" = 1'-0"



J13 MEZZANINE - SOUTH NORTH SECTION
1/4" = 1'-0"



project title
ENLARGED STAIR PLANS

REVISIONS

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	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
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project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
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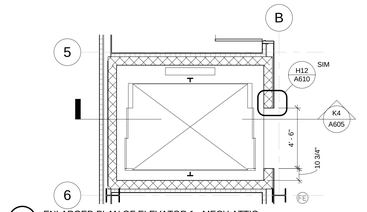
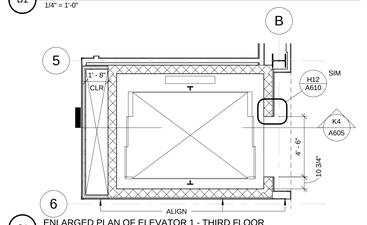
drawn by EL
approved by RM/JBR
drawing no. A604

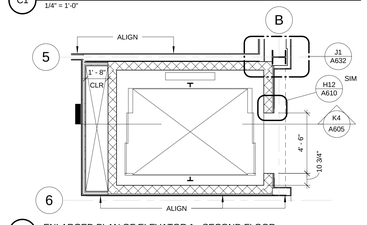
Clifford Lee of Fitch (FFC) Rev Academic and Laboratory Building A13 Central_Cupboard 11/21/2012 12:28:12 PM



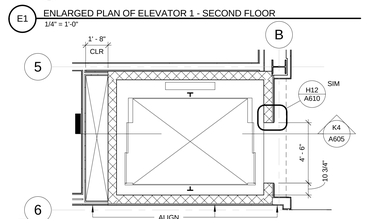
B1 ENLARGED PLAN OF ELEVATOR 1 - MECH ATTIC
1/4" = 1'-0"



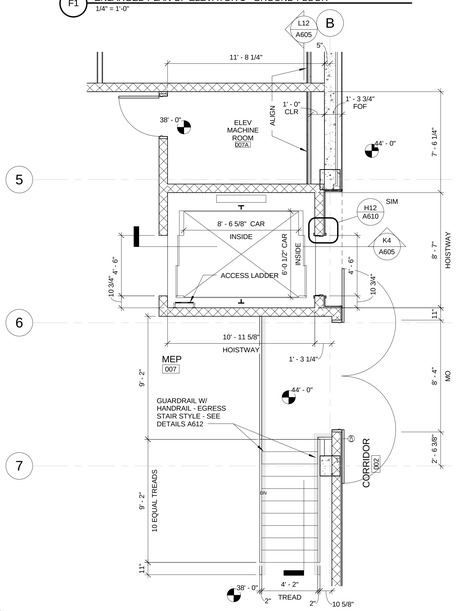
C1 ENLARGED PLAN OF ELEVATOR 1 - THIRD FLOOR
1/4" = 1'-0"



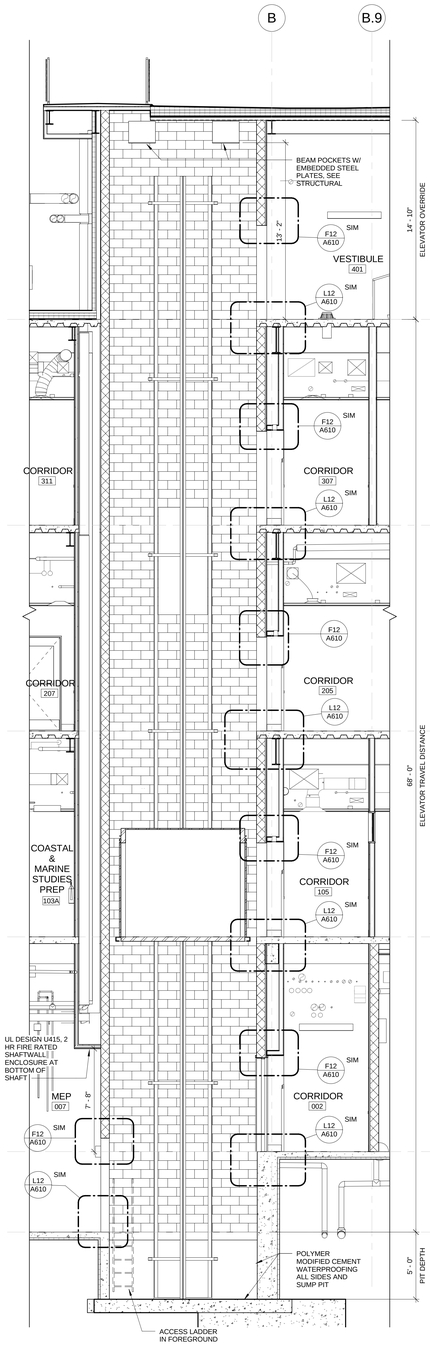
E1 ENLARGED PLAN OF ELEVATOR 1 - SECOND FLOOR
1/4" = 1'-0"



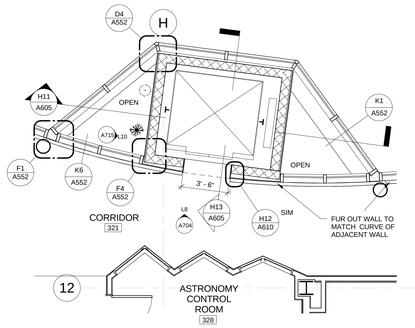
F1 ENLARGED PLAN OF ELEVATOR 1 - GROUND FLOOR
1/4" = 1'-0"



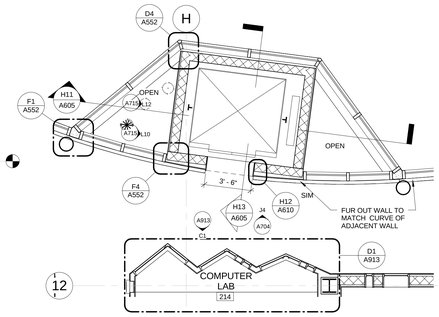
K1 ENLARGED PLAN OF STAIR 4 AND ELEVATOR 1 - LOWER LEVEL
1/4" = 1'-0"



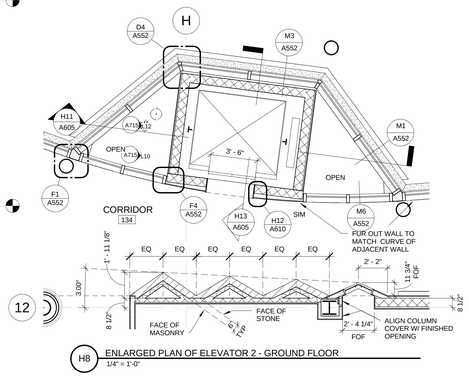
K4 ELEVATOR 1 - NORTH SOUTH SECTION
1/4" = 1'-0"



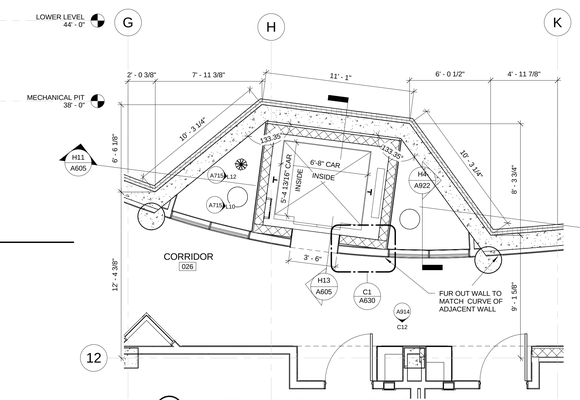
C8 ENLARGED PLAN OF ELEVATOR 2 - THIRD FLOOR
1/4" = 1'-0"



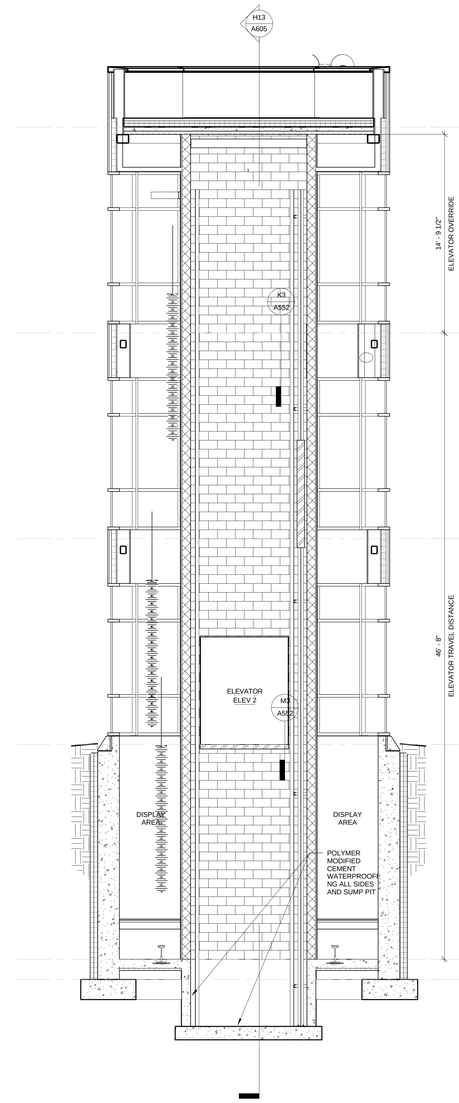
E8 ENLARGED PLAN OF ELEVATOR 2 - SECOND FLOOR
1/4" = 1'-0"



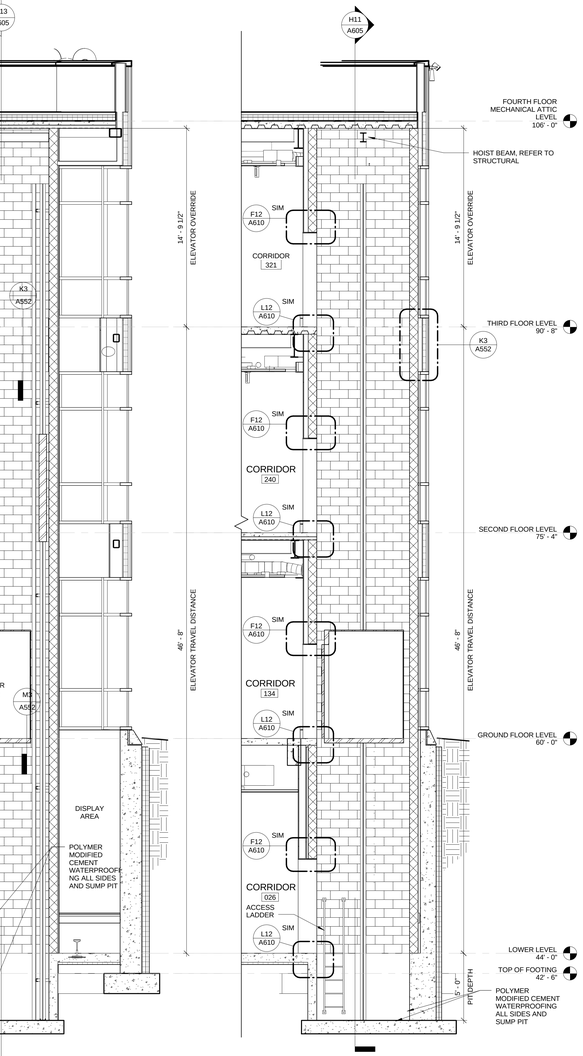
H8 ENLARGED PLAN OF ELEVATOR 2 - GROUND FLOOR
1/4" = 1'-0"



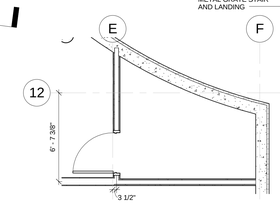
L8 ENLARGED PLAN OF ELEVATOR 2 - LOWER LEVEL
1/4" = 1'-0"



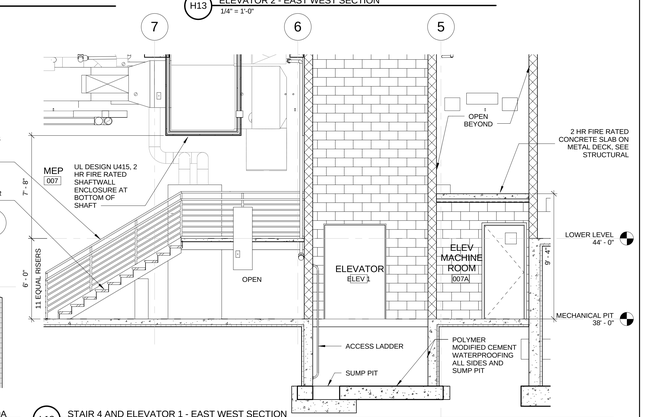
H11 ELEVATOR 2 - NORTH SOUTH SECTION
1/4" = 1'-0"



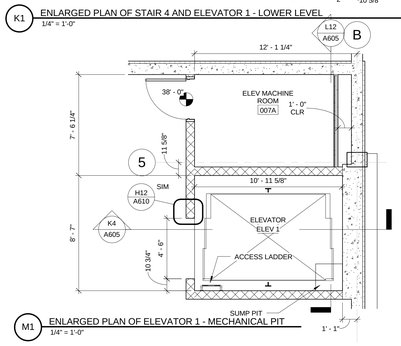
H13 ELEVATOR 2 - EAST WEST SECTION
1/4" = 1'-0"



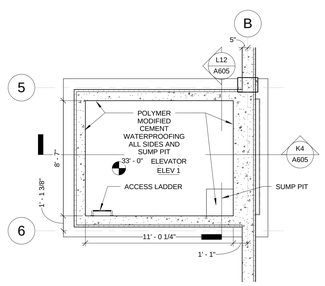
L10 ENLARGED PLAN OF ELEVATOR MACHINE ROOM 009A
1/4" = 1'-0"



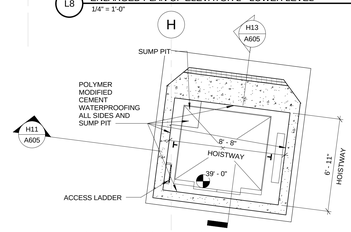
L12 STAIR 4 AND ELEVATOR 1 - EAST WEST SECTION
1/4" = 1'-0"



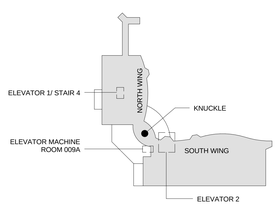
M1 ENLARGED PLAN OF ELEVATOR 1 - MECHANICAL PIT
1/4" = 1'-0"



M4 ENLARGED PLAN OF ELEVATOR 1 - ELEVATOR PIT
1/4" = 1'-0"



M8 ENLARGED PLAN OF ELEVATOR 2 - ELEVATOR PIT
1/4" = 1'-0"



drawing title
ENLARGED ELEVATOR PLANS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

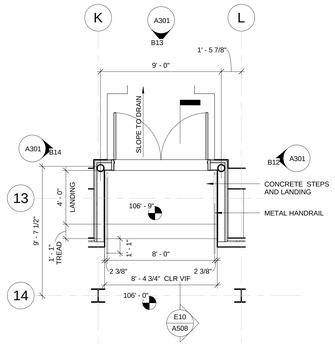
STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING: Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

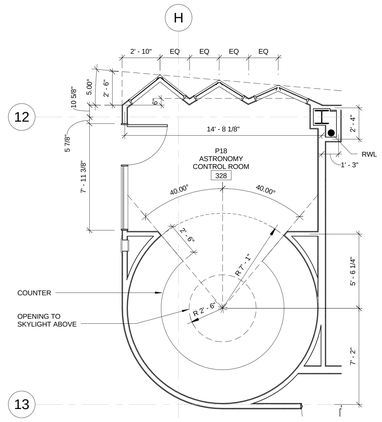
project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD file: 1393
project no.: BI-RS-283

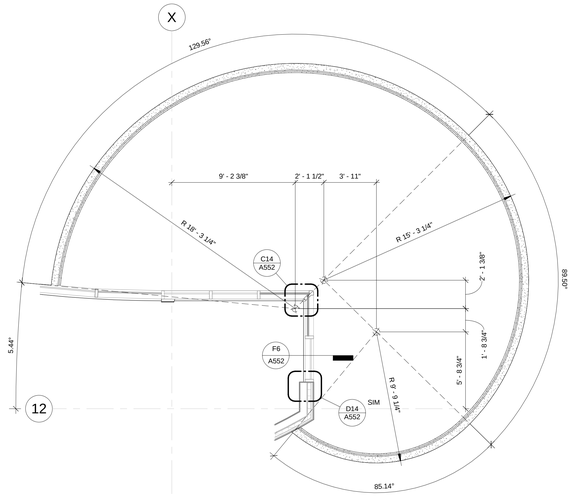
volume: 1 of 2
date: 11-21-2012
scale: As indicated
drawn by: EL
reviewed by: RMJ/BR
drawing no.: A605



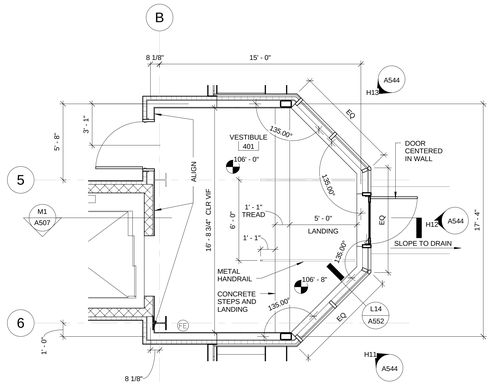
D4 ENLARGED PLAN OF SOUTH WING ROOF DORMER
1/4" = 1'-0"



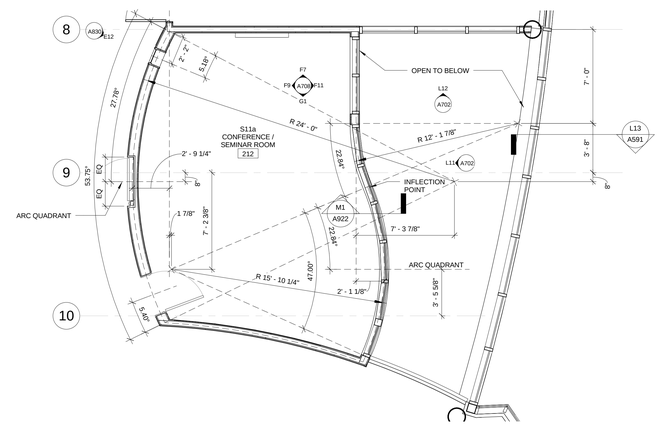
D8 ENLARGED PLAN OF ASTRONOMY CONTROL ROOM
1/4" = 1'-0"



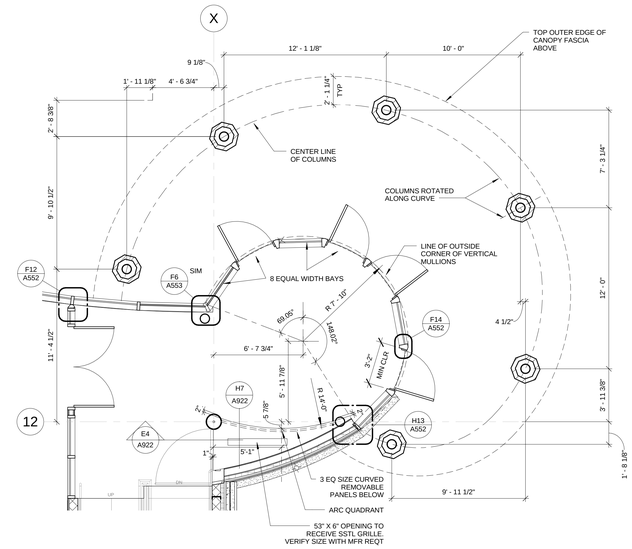
D12 ENLARGED PLAN OF SOUTH WING CANOPY - SECOND FLOOR
1/4" = 1'-0"



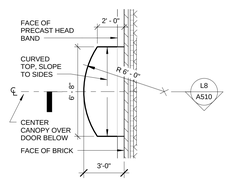
H4 ENLARGED PLAN OF VESTIBULE 401
1/4" = 1'-0"



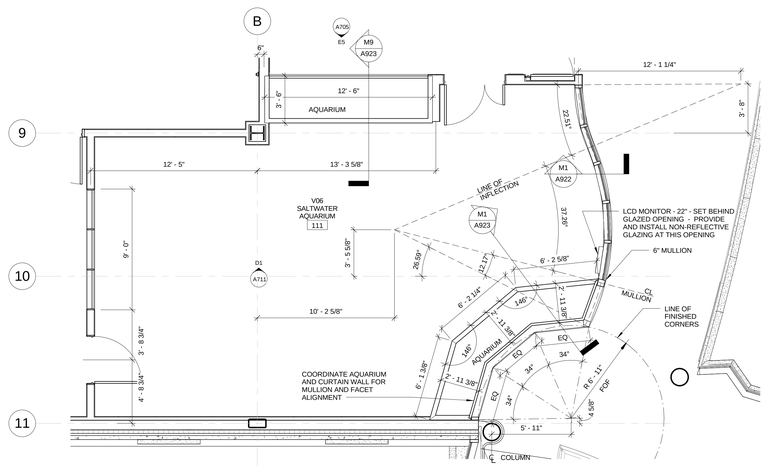
H8 ENLARGED PLAN OF CONFERENCE / SEMINAR ROOM 212
1/4" = 1'-0"



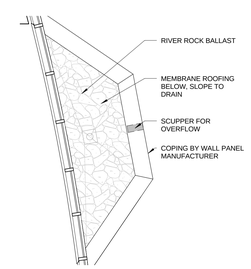
H12 ENLARGED PLAN OF SOUTH WING CANOPY - GROUND FLOOR
1/4" = 1'-0"



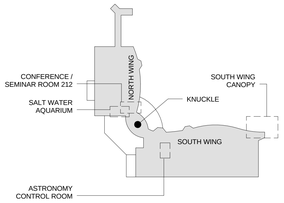
K4 ENLARGED PLAN OF CANOPY AT DOOR TO MUD ROOM
1/4" = 1'-0"



M8 ENLARGED PLAN OF SALTWATER AQUARIUM
1/4" = 1'-0"



K12 ENLARGED PLAN OF BAY ROOF - TYPICAL
1/4" = 1'-0"



general notes: ENLARGED PLANS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES	sheet 1 of 2
REVISIONS mark / date / description 11-21-2012 Bid Documents	DRAWING PREPARED BY Centerbrook Architects and Planners, LLP 67 Main Street Post Office Box 955 Centerbrook, Connecticut 06409-0955	date 11-21-2012 scale As indicated drawn by EL checked by RMJBR
project: SCSU NEW ACADEMIC LABORATORY BUILDING	CAD no. 1393 / project no. BI-RS-283	drawing no. A606

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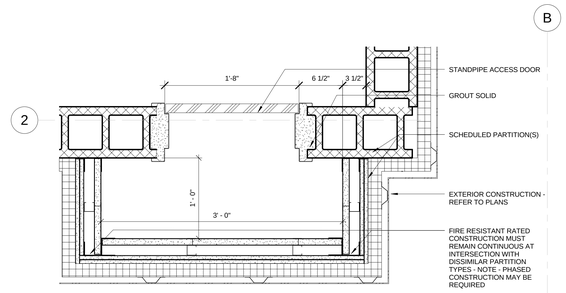
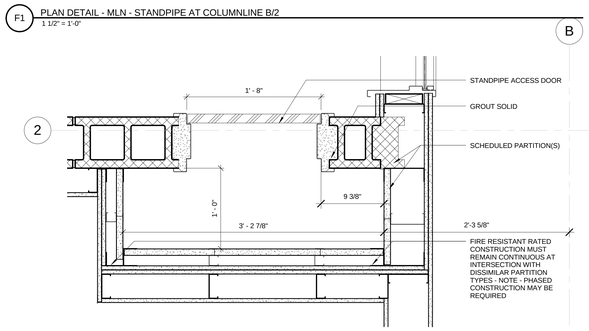
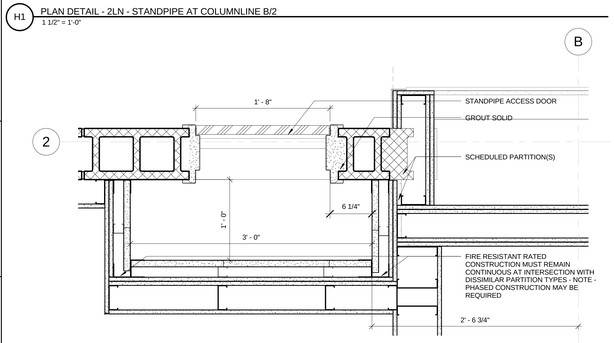


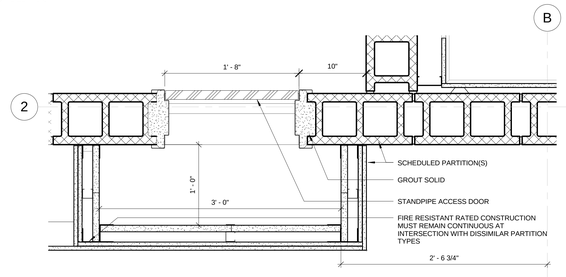
F1 PLAN DETAIL - MLN - STANDPIPE AT COLUMNLINE B/2
1 1/2" = 1'-0"



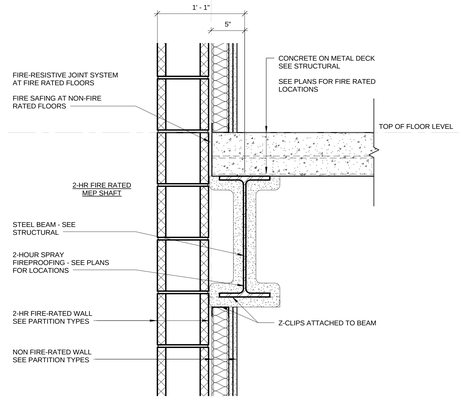
H1 PLAN DETAIL - 2LN - STANDPIPE AT COLUMNLINE B/2
1 1/2" = 1'-0"



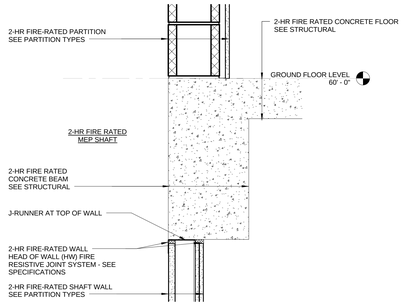
K1 PLAN DETAIL - GLN - STANDPIPE AT COLUMNLINE B/2
1 1/2" = 1'-0"



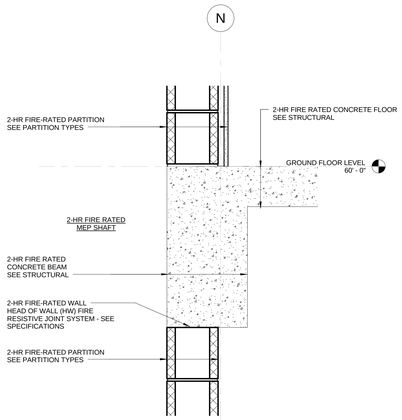
M1 PLAN DETAIL - LLN - STANDPIPE AT COLUMNLINE B/2
1 1/2" = 1'-0"



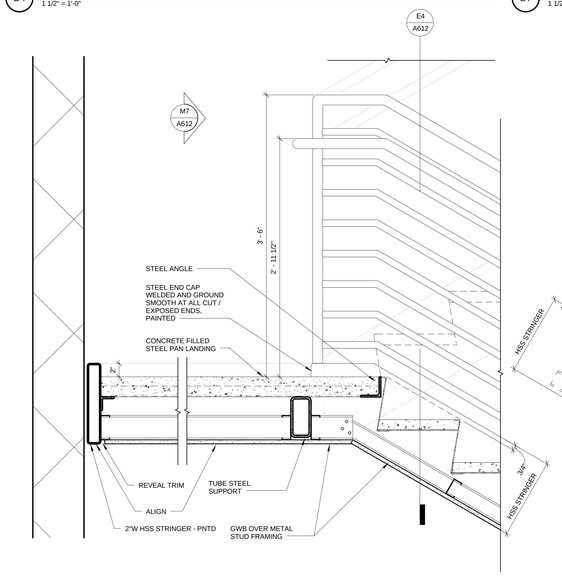
D4 MEP SHAFT DETAIL AT 2ND, 3RD AND 4TH FLOORS - TYPICAL
1 1/2" = 1'-0"



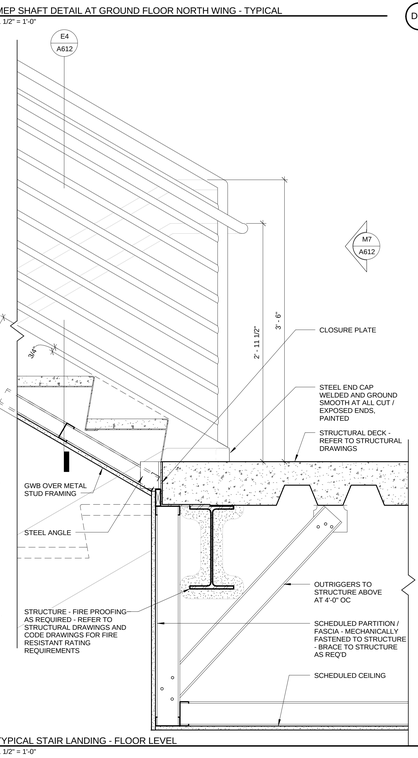
D7 MEP SHAFT DETAIL AT GROUND FLOOR NORTH WING - TYPICAL
1 1/2" = 1'-0"



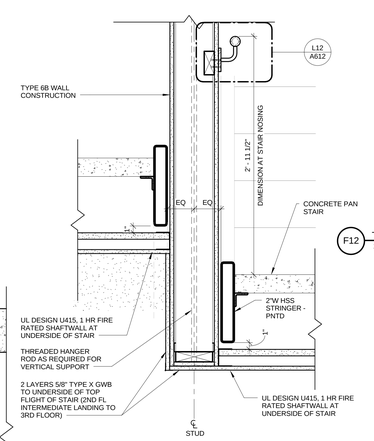
D10 MEP SHAFT DETAIL AT GROUND FLOOR SOUTH WING - TYPICAL
1 1/2" = 1'-0"



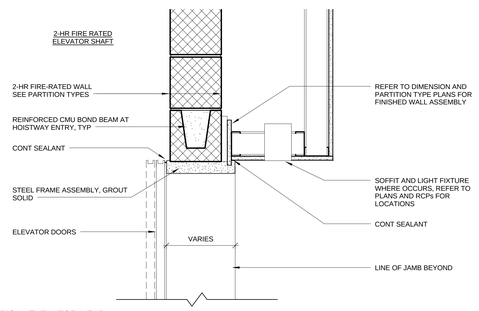
H4 TYPICAL STAIR LANDING - INTERMEDIATE LEVEL
1 1/2" = 1'-0"



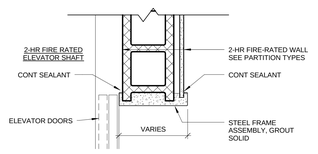
J7 TYPICAL STAIR LANDING - FLOOR LEVEL
1 1/2" = 1'-0"



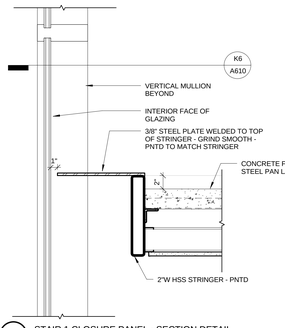
H10 STAIR 2 RATED ENCLOSURE DETAIL
1 1/2" = 1'-0"



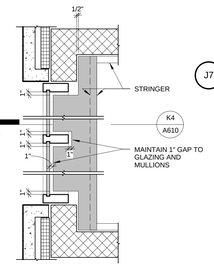
F12 TYPICAL ELEVATOR HEAD
1 1/2" = 1'-0"



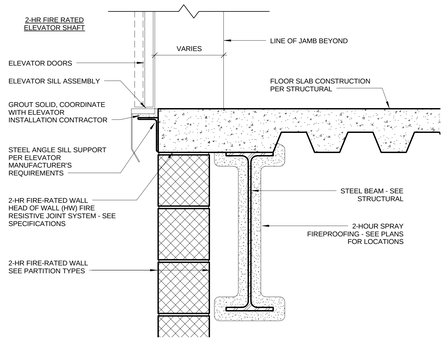
H12 TYPICAL ELEVATOR JAMB
1 1/2" = 1'-0"



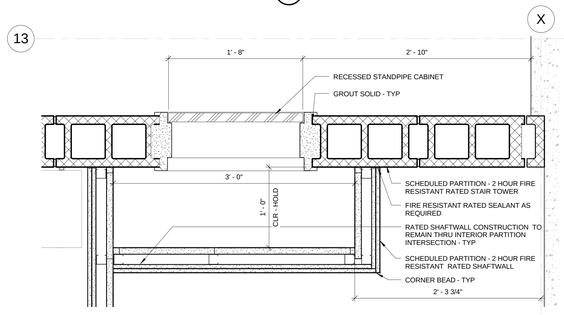
K4 STAIR 1 CLOSURE PANEL - SECTION DETAIL
1 1/2" = 1'-0"



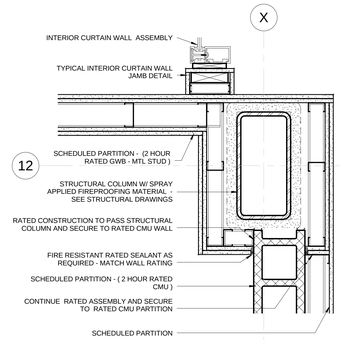
K6 STAIR 1 CLOSURE PANEL - PLAN DETAIL
3/4" = 1'-0"



L12 TYPICAL ELEVATOR SILL
1 1/2" = 1'-0"



M4 LLS - STANDPIPE AT
1 1/2" = 1'-0"



M9 PLAN DETAIL - 2LS - X/12 AT STAIR 3
1 1/2" = 1'-0"

drawing title: STAIR AND SHAFT DETAILS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING: Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

PROJECT: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD file: 1393
project no.: BI-RS-283

volume: 1 of 2
date: 11-21-2012
scale: As indicated
drawn by: BGA/AS
reviewed by: RMJBR
drawing no.: A610

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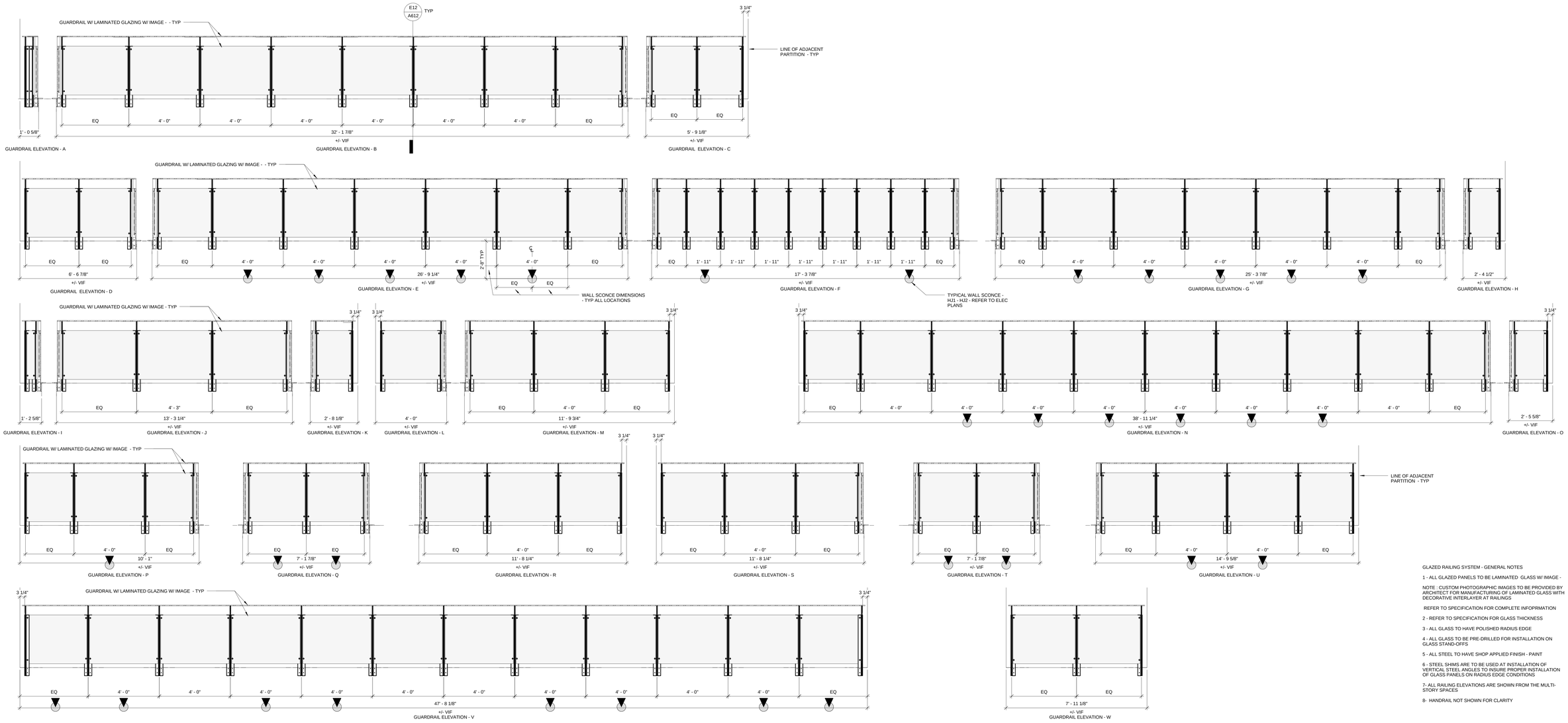


H1 RAILING ELEVATION - FLATTENED VIEWS
1/2" = 1'-0"

GLAZED RAILING SYSTEM - GENERAL NOTES

1 - ALL GLAZED PANELS TO BE LAMINATED GLASS W/ IMAGE -

NOTE : CUSTOM PHOTOGRAPHIC IMAGES TO BE PROVIDED BY ARCHITECT FOR MANUFACTURING OF LAMINATED GLASS WITH DECORATIVE INTERLAYER AT RAILINGS

REFER TO SPECIFICATION FOR COMPLETE INFOPRMATION

2 - REFER TO SPECIFICATION FOR GLASS THICKNESS

3 - ALL GLASS TO HAVE POLISHED RADIUS EDGE

4 - ALL GLASS TO BE PRE-DRILLED FOR INSTALLATION ON GLASS STAND-OFFS

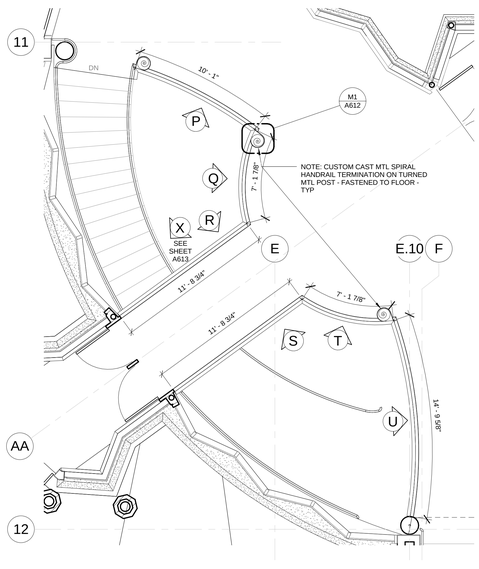
5 - ALL STEEL TO HAVE SHOP APPLIED FINISH - PAINT

6 - STEEL SHIMS ARE TO BE USED AT INSTALLATION OF VERTICAL STEEL ANGLES TO INSURE PROPER INSTALLATION OF GLASS PANELS ON RADIUS EDGE CONDITIONS

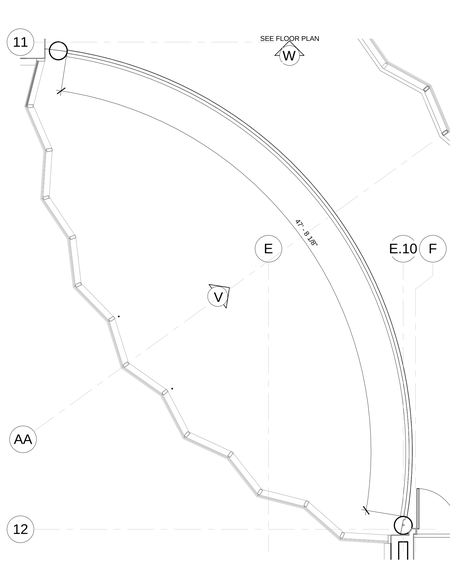
7 - ALL RAILING ELEVATIONS ARE SHOWN FROM THE MULTI-STORY SPACES

8- HANDRAIL NOT SHOWN FOR CLARITY

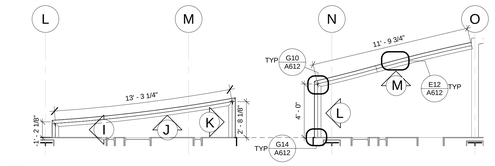
GLAZED RAILING SYSTEM - GENERAL NOTES
1/16" = 1'-0"



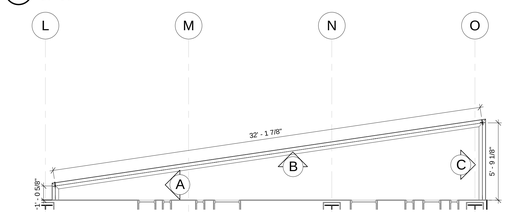
M1 GROUND FLOOR PLAN - KNUCLKE RAILING SYSTEM
1/4" = 1'-0"



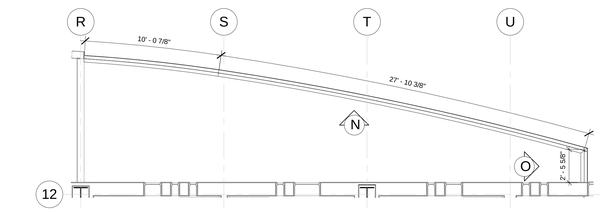
M4 SECOND FLOOR PLAN - KNUCKLE RAILING SYSTEM
1/4" = 1'-0"



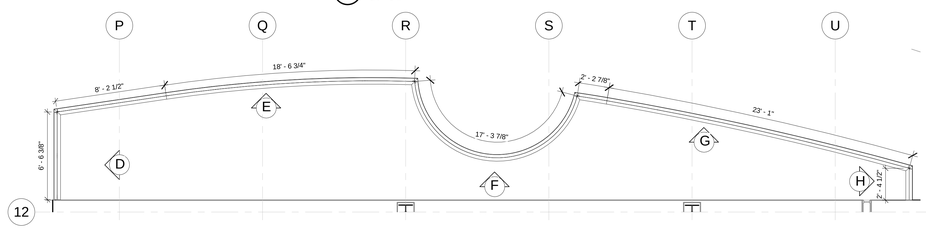
K7 SECOND FLOOR PLAN - ATRIUM RAILING SYSTEM - NORTH
1/4" = 1'-0"



L7 GROUND FLOOR PLAN - ATRIUM RAILING SYSTEM - NORTH
1/4" = 1'-0"



K12 SECOND FLOOR PLAN - ATRIUM RAILING SYSTEM - SOUTH
1/4" = 1'-0"



L10 GROUND FLOOR PLAN - ATRIUM RAILING SYSTEM - SOUTH
1/4" = 1'-0"

drawing title: RAILING SYSTEM ELEVATIONS AND DETAILS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		volume: 1 of 2
REVISIONS			date: 11-21-2012
mark / date / description: 11-21-2012 Bid Documents	drawing: Centerbrook Architects and Planners, LLP, 67 Main Street, Post Office Box 955, Centerbrook, Connecticut 06409-0955		scale: As indicated
	project: SCSU NEW ACADEMIC LABORATORY BUILDING		drawn by: BGA
			checked by: RMUBR
	CAD file: 1393	project no.: BI-RS-283	drawing no.: A611

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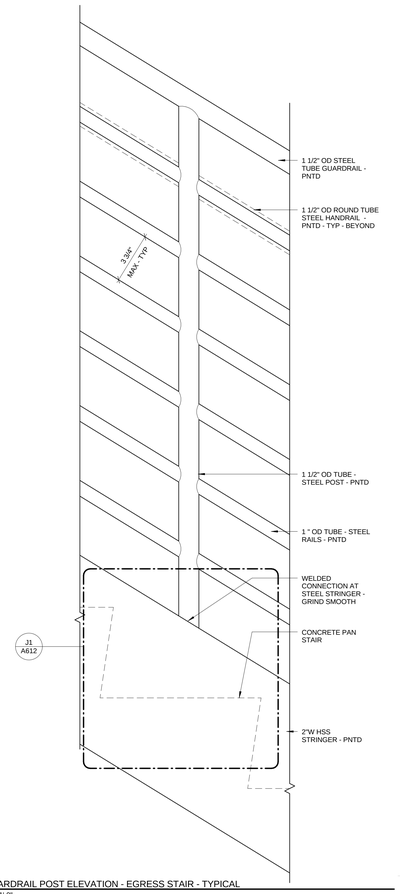
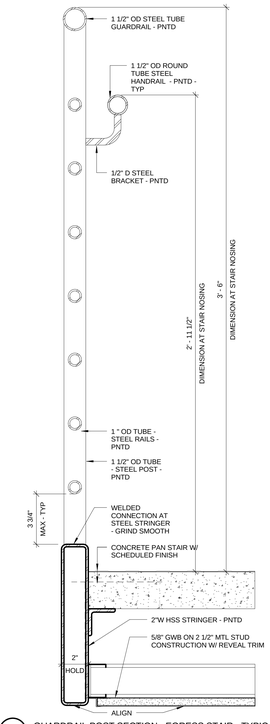
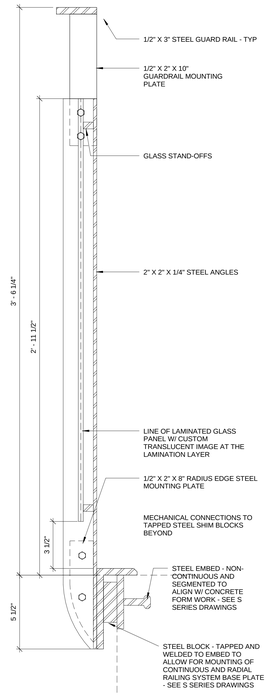


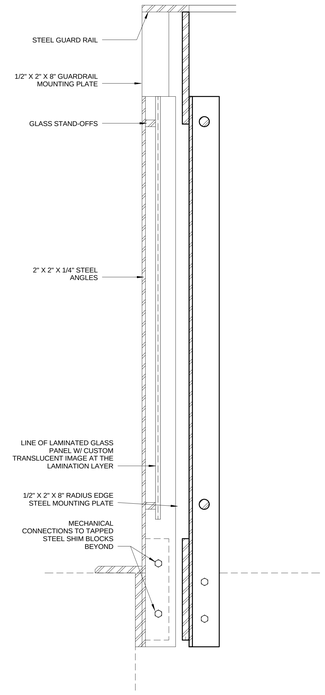
F1 GUARDRAIL POST ELEVATION - EGRESS STAIR - TYPICAL
3" = 1'-0"



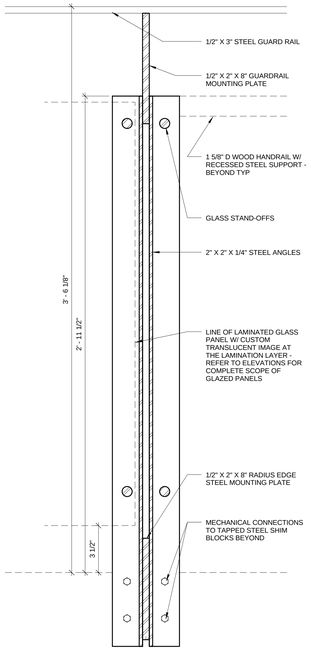
E4 GUARDRAIL POST SECTION - EGRESS STAIR - TYPICAL
3" = 1'-0"



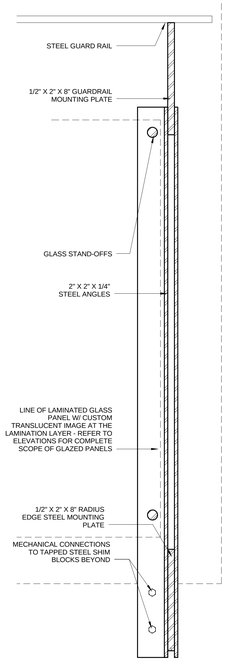
E7 GUARDRAIL POST SECTION - TYPICAL
3" = 1'-0"



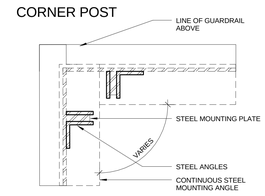
E9 GUARDRAIL CORNER POST - TYPICAL
3" = 1'-0"



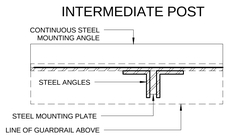
E12 GUARDRAIL INTERMEDIATE POST - TYPICAL
3" = 1'-0"



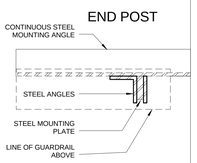
E14 GUARDRAIL END POST - TYPICAL
3" = 1'-0"



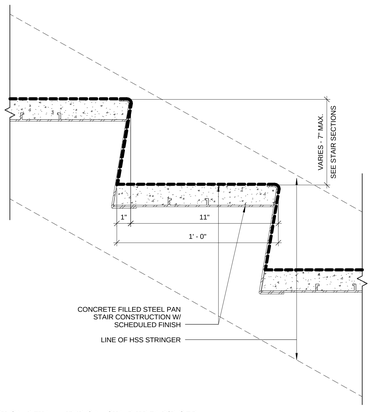
G10 GUARDRAIL CORNER POST- PLAN - TYPICAL
3" = 1'-0"



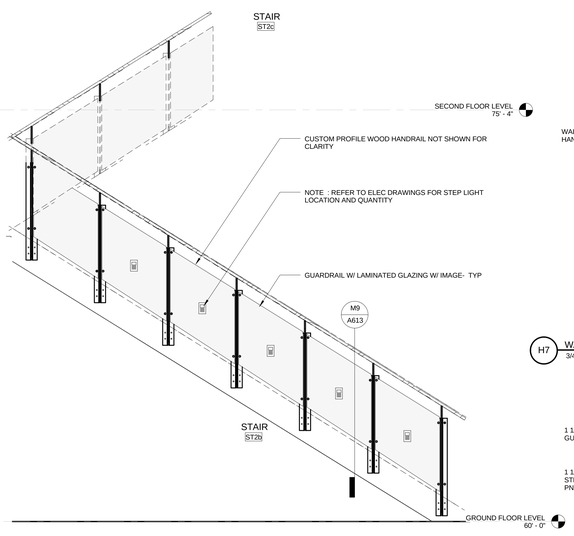
G12 GUARDRAIL INTERMEDIATE POST- PLAN - TYPICAL
3" = 1'-0"



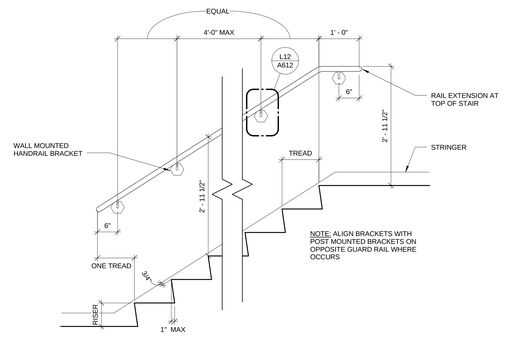
G14 GUARDRAIL END POST- PLAN - TYPICAL
3" = 1'-0"



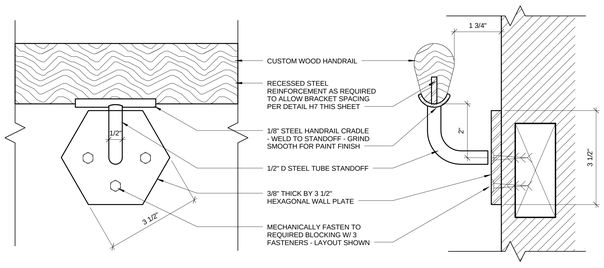
J1 SECTION DETAIL - TYPICAL STAIR TREAD/RISER
3" = 1'-0"



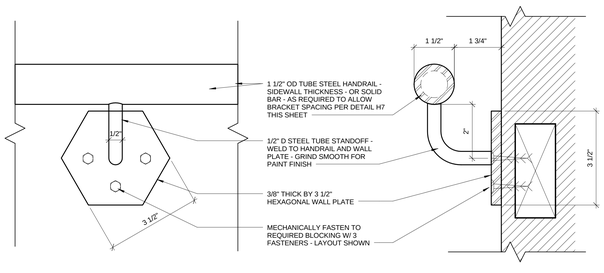
J4 RAILING ELEVATION - STAIR # 2 - CURVED
1/2" = 1'-0"



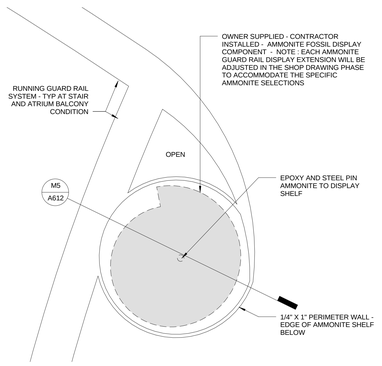
H7 WALL MOUNTED HANDRAIL AND BRACKET LAYOUT
3/4" = 1'-0"



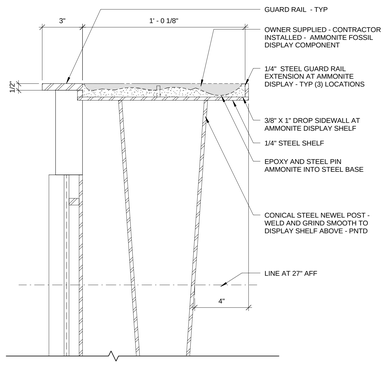
J12 TYPICAL HANDRAIL BRACKET - WOOD
6" = 1'-0"



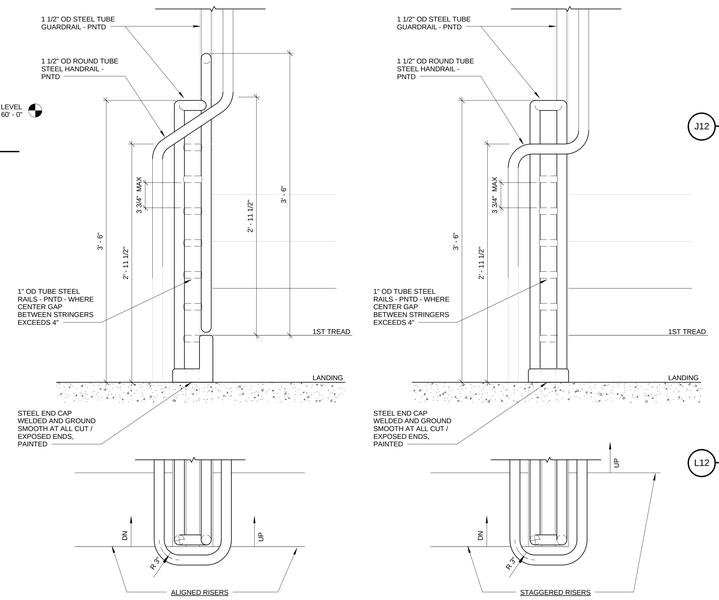
L12 TYPICAL HANDRAIL BRACKET - STEEL
6" = 1'-0"



M1 PLAN DETAIL - GUARD RAIL EXTENSION AT DISPLAY
3" = 1'-0"



M5 SECTION DETAIL - GUARD RAIL DISPLAY EXTENSION
3" = 1'-0"



M7 TYPICAL RAILING RETURNS AT STAIR LANDINGS
1 1/2" = 1'-0"

project title: RAILING SYSTEM ELEVATION AND DETAILS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		volume 1 of 2
REVISIONS			date 11-21-2012
mark / date / description	DRAWING PREPARED BY: Centerbrook Architects and Planners, LLP, 67 Main Street, Post Office Box 955, Centerbrook, Connecticut 06409-0955		scale As indicated
11-21-2012 Bid Documents			drawn by BGA
project: SCSU NEW ACADEMIC LABORATORY BUILDING			checked by RM/JBR
CAD no. 1393	project no. BI-RS-283		drawing no. A612

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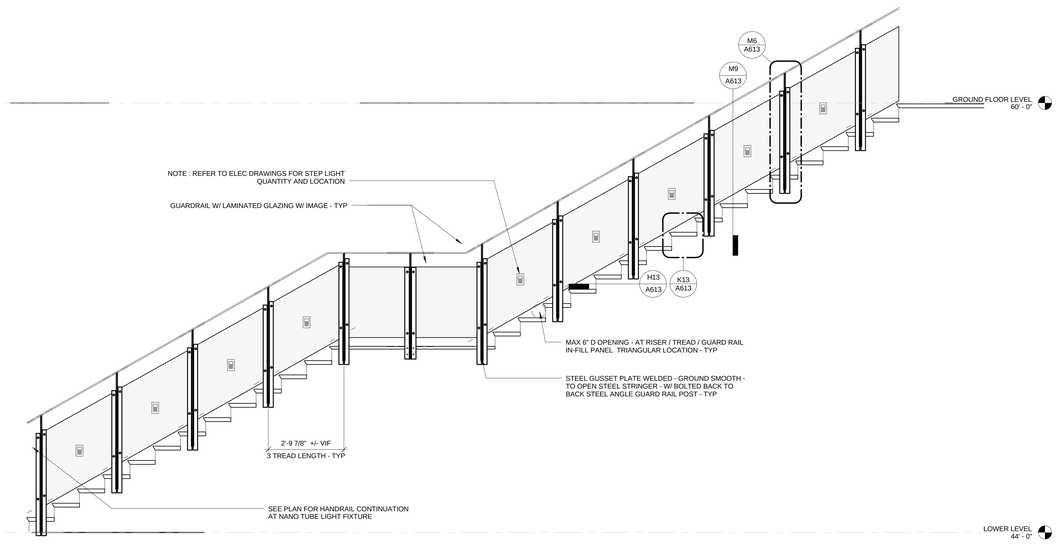
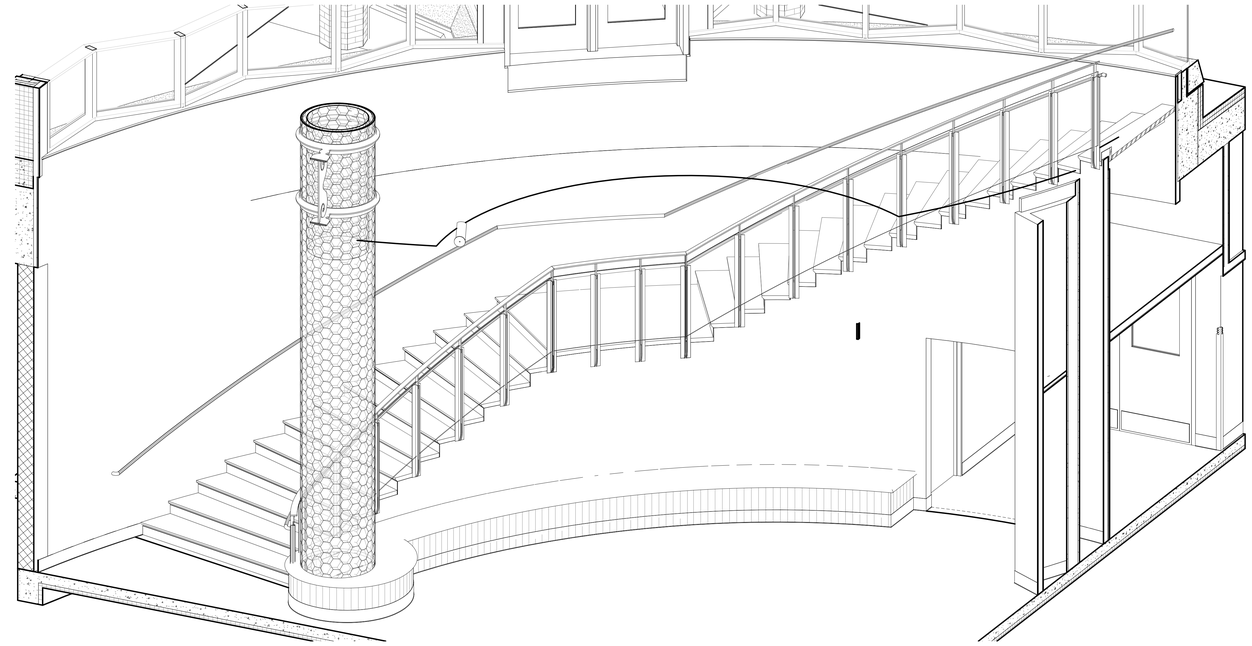
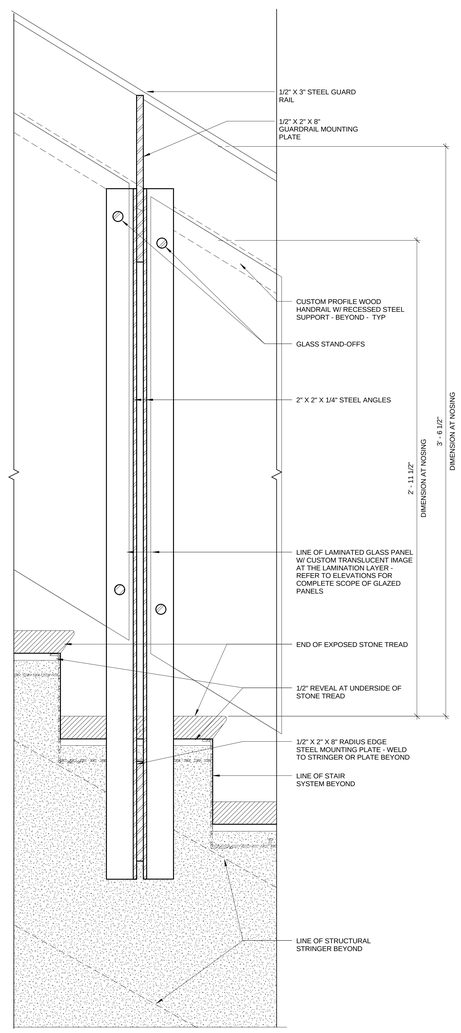


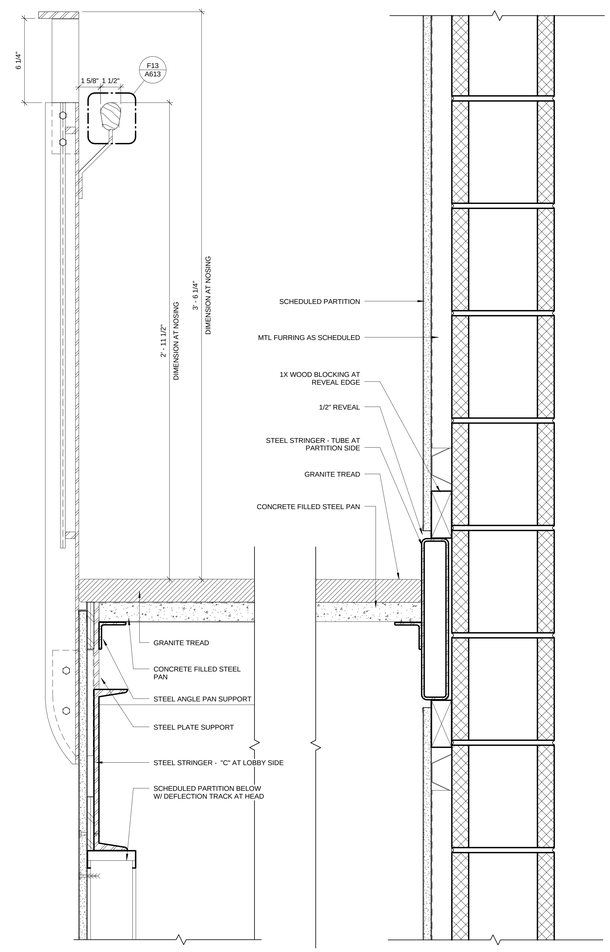
E1 GUARDRAIL ELEVATION X - FLATTENED ELEVATION
1/2" = 1'-0"



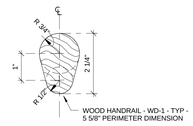
E8 AXONOMETRIC AT MONUMENTAL STAIR - FOR REFERENCE ONLY



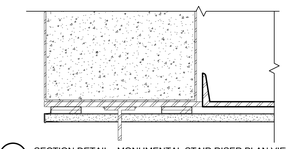
M6 GUARDRAIL W/ HANDRAIL INTERMEDIATE POST - STAIR - TYPICAL
3" = 1'-0"



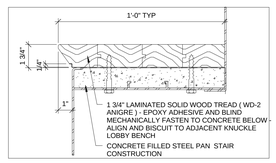
M9 SECTION DETAIL - MONUMENTAL STAIR TREAD/RISER/RAILING SYSTEM
3" = 1'-0"



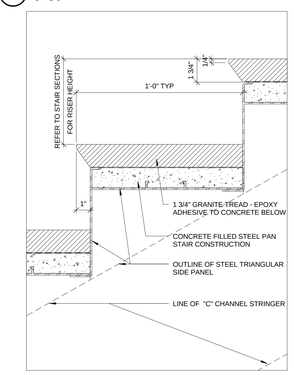
F13 TYPICAL HANDRAIL SECTION - DETAIL
6" = 1'-0"



H13 SECTION DETAIL - MONUMENTAL STAIR RISER PLAN VIEW
3" = 1'-0"



J13 SECTION DETAIL - MONUMENTAL STAIR TREAD # 3
3" = 1'-0"



K13 SECTION DETAIL - MONUMENTAL STAIR TREAD/RISER
3" = 1'-0"

title
MONUMENTAL STAIR DETAILS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

sheet 1 of 2
date 11-21-2012
scale As indicated
drawn by BGA
checked by RMJBR
drawing no. A613

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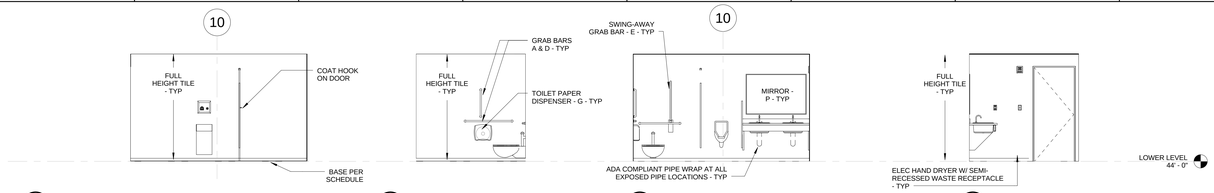
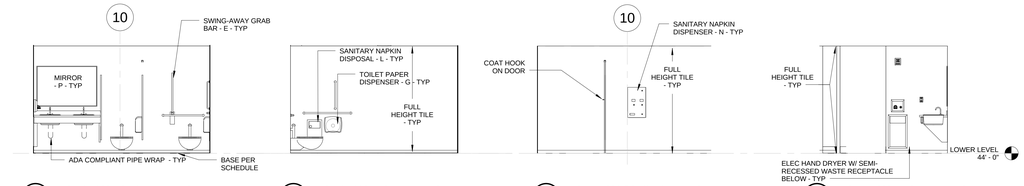


B1 MEN 018 NORTH ELEVATION 1/4" = 1'-0"

B3 MEN 018 EAST ELEVATION 1/4" = 1'-0"

B5 MEN 018 SOUTH ELEVATION 1/4" = 1'-0"

B7 MEN 018 WEST ELEVATION 1/4" = 1'-0"



C1 WOMEN 020 NORTH ELEVATION 1/4" = 1'-0"

C3 WOMEN 020 EAST ELEVATION 1/4" = 1'-0"

C4 WOMEN 020 SOUTH ELEVATION 1/4" = 1'-0"

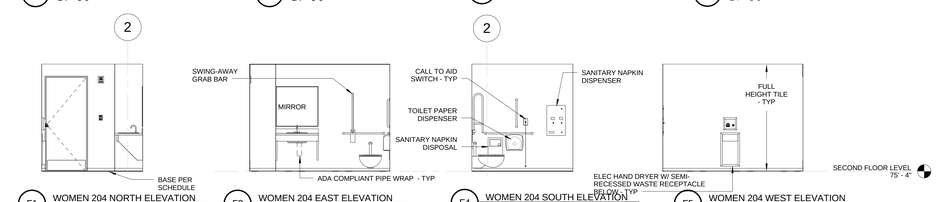
C6 WOMEN 020 WEST ELEVATION 1/4" = 1'-0"

E1 MEN 202 NORTH ELEVATION 1/4" = 1'-0"

E2 MEN 202 EAST ELEVATION 1/4" = 1'-0"

E4 MEN 202 SOUTH ELEVATION 1/4" = 1'-0"

E5 MEN 202 WEST ELEVATION 1/4" = 1'-0"



F1 WOMEN 204 NORTH ELEVATION 1/4" = 1'-0"

F2 WOMEN 204 EAST ELEVATION 1/4" = 1'-0"

F4 WOMEN 204 SOUTH ELEVATION 1/4" = 1'-0"

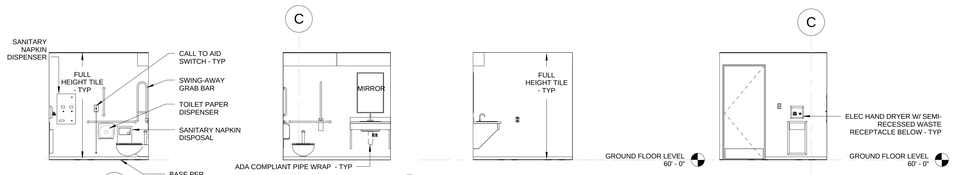
F5 WOMEN 204 WEST ELEVATION 1/4" = 1'-0"

G1 MEN 106 NORTH ELEVATION 1/4" = 1'-0"

G2 MEN 106 EAST ELEVATION 1/4" = 1'-0"

G4 MEN 106 SOUTH ELEVATION 1/4" = 1'-0"

G5 MEN 106 WEST ELEVATION 1/4" = 1'-0"

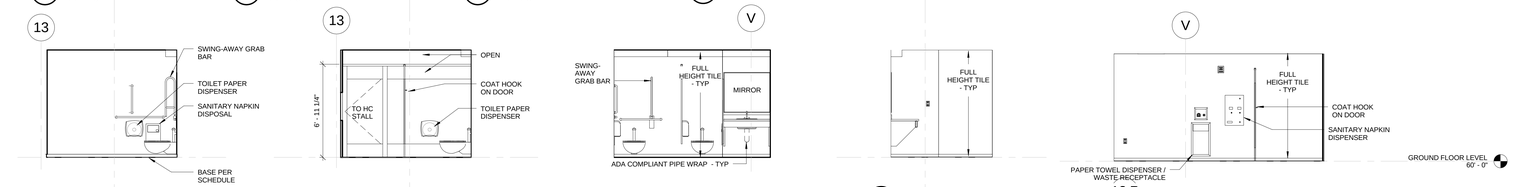


H1 WOMEN 104 NORTH ELEVATION 1/4" = 1'-0"

H2 WOMEN 104 EAST ELEVATION 1/4" = 1'-0"

H4 WOMEN 104 SOUTH ELEVATION 1/4" = 1'-0"

H5 WOMEN 104 WEST ELEVATION 1/4" = 1'-0"



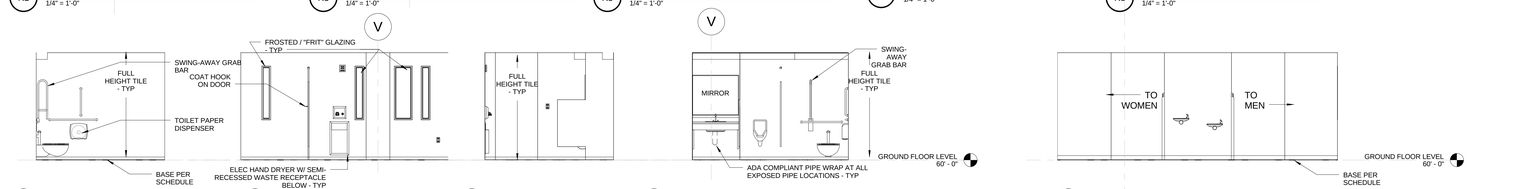
K1 WOMEN (1-Wa) NORTH ELEVATION @ HC STALL 1/4" = 1'-0"

K3 WOMEN 126 NORTH ELEVATION @ TOILET STALL 1/4" = 1'-0"

K5 WOMEN 126 EAST ELEVATION 1/4" = 1'-0"

K6 WOMEN 126 SOUTH ELEVATION 1/4" = 1'-0"

K8 WOMEN 126 WEST ELEVATION 1/4" = 1'-0"



L1 MEN 128 NORTH ELEVATION @ HC STALL 1/4" = 1'-0"

L2 MEN 128 EAST ELEVATION 1/4" = 1'-0"

L4 MEN 128 SOUTH ELEVATION 1/4" = 1'-0"

L5 MEN 128 WEST ELEVATION 1/4" = 1'-0"

L8 SOUTH WING ELEVATION @ DRINKING FOUNTAINS 1/4" = 1'-0"

LAVATORY - GENERAL NOTES

1 - ALL RESTROOM PARTITIONS TO HAVE FULL HEIGHT CERAMIC TILE - SEE DETAIL FOR CUSTOM SHEET AND PATTERNS

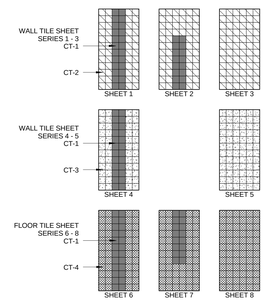
2 - ALL RESTROOM FLOORS TO HAVE CERAMIC TILE - SEE DETAIL FOR CUSTOM SHEET AND PATTERNS

3 - FLOOR / WALL INTERSECTION IS TO HAVE COVE BASE TO MATCH ADJACENT WALL AND FLOOR TILE COLORS

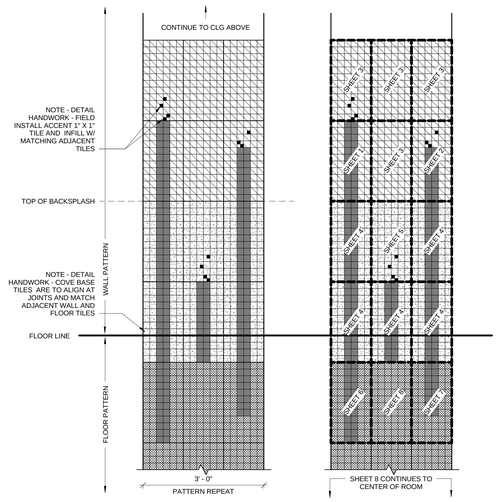
4 - TRIM TILES TO INCLUDE ONE PIECE INSIDE CORNERS AND ONE PIECE OUTSIDE CORNERS TO MATCH ADJACENT WALL TILES

5 - ALL GROUT LINES ARE TO ALIGN AND BE CONTINUOUS THRU WALL - COVE BASE - AND WALL TILES INSTALLATION

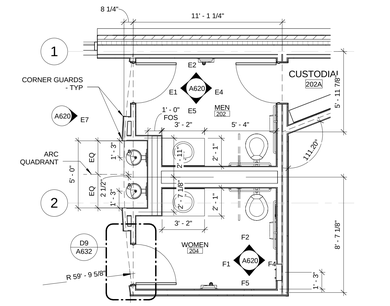
LAVATORY TILE - GENERAL NOTES
1/16" = 1'-0"



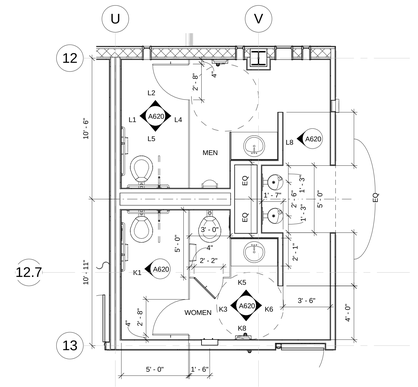
E8 CUSTOM TILE SHEET PATTERNS 3/4" = 1'-0"



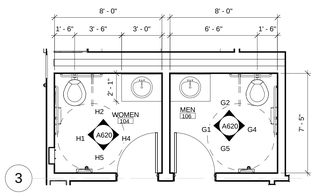
E10 CUSTOM TILE SHEET ELEVATION 3/4" = 1'-0"



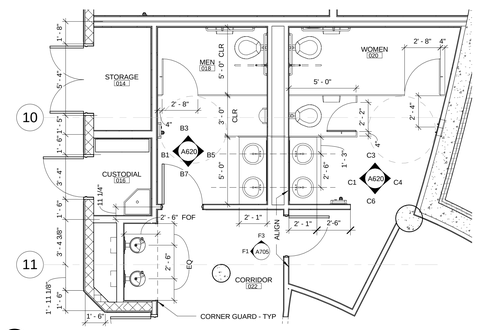
F13 ENLARGED NORTH WING BATHROOM PLAN - TYP. OF 2ND & 3RD FLOOR 1/4" = 1'-0"



J13 ENLARGED SOUTH WING BATHROOM PLAN - TYPICAL 1/4" = 1'-0"

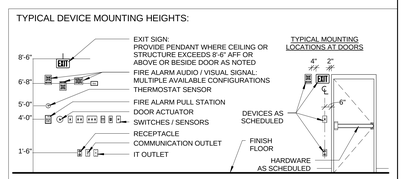


F11 ENLARGED NORTH WING BATHROOM PLAN - GROUND FLOOR 1/4" = 1'-0"



C12 ENLARGED PLAN OF LOWER LEVEL MEN 018 & WOMEN 020 BATHROOMS 1/4" = 1'-0"

TYPICAL DEVICE MOUNTING HEIGHTS:

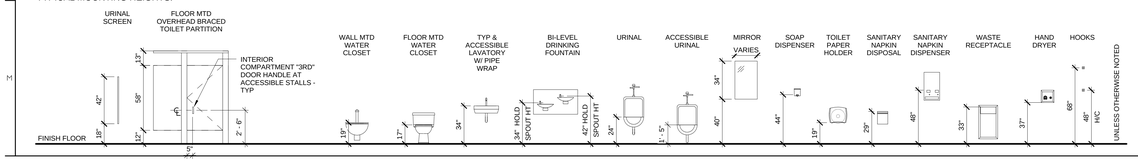


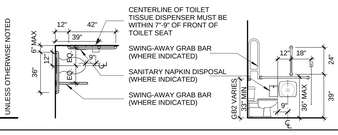
NOTES:

1. ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM FINISH FLOOR.
2. DEVICES SHALL BE INSTALLED ON A COMMON VERTICAL CENTERLINE WHENEVER POSSIBLE.
3. ALL DEVICES SHALL BE INSTALLED AT MOUNTING HEIGHTS AS INDICATED IN THIS DETAIL UNLESS NOTED OTHERWISE.
4. PROVIDE ALL NECESSARY BLOCKING.

E7 NORTH WING CORRIDOR SOUTH ELEVATION @ DRINKING FOUNTAIN 1/4" = 1'-0"

TYPICAL MOUNTING HEIGHTS:





NOTES:

1. ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM FINISHED FLOOR TO CENTERLINE OF DEVICE EXCEPT EXIT SIGNS OR OTHERWISE NOTED.
2. DEVICE SHALL BE INSTALLED ON A COMMON VERTICAL CENTERLINE WHENEVER POSSIBLE.
3. ALL DEVICES SHALL BE INSTALLED AT MOUNTING HEIGHTS AS INDICATED ON THE DETAIL UNLESS OTHERWISE NOTED.
4. EXACT LOCATIONS AND MOUNTING HEIGHTS OF SWITCHES, THERMOSTATS, BOXES, PLATES, RECEPTACLES, ETC. WILL BE LOCATED WITH THE ARCHITECT IN THE FIELD. IT IS THE INTENTION OF THE ARCHITECT TO GROUP AND ORGANIZE THE ABOVE-LISTED DEVICES TO THE GREATEST EXTENT POSSIBLE. THESE DEVICES SHALL NOT BE INSTALLED PRIOR TO FIELD REVIEW WITH THE ARCHITECT.

NOTES:

5. THE SIDE WALL 42" GRAB BAR AND SWING AWAY GRAB BAR ARE TO BE MOUNTED AT THE SAME ELEVATION WHEN THE SWING DOWN GRAB BAR IS IN THE OPERATIONAL POSITION AT CENTERLINE 35-1/2" AFF - THE REAR 36" GRAB BAR IS TO BE MOUNTED AT CENTERLINE 33-1/2" AFF

INTERIOR ELEVATIONS AND ENLARGED PLANS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

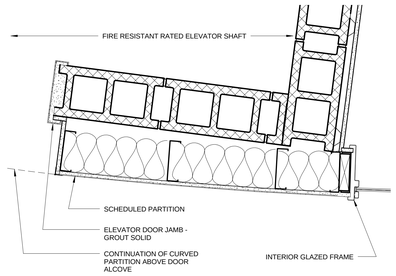
DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

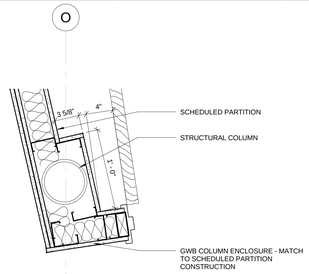
CAD no. 1393
project no. BI-RS-283

sheet no. 1 of 2
date 11-21-2012
scale As indicated
drawn by EL/BGA
reviewed by RMJ/BR
drawing no. A620

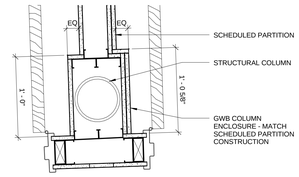
Cultural Land Field | 391 | 252 | New Academic and Laboratory Building | 413 Central_Graphics | 1/21/2012 1:12:13 PM



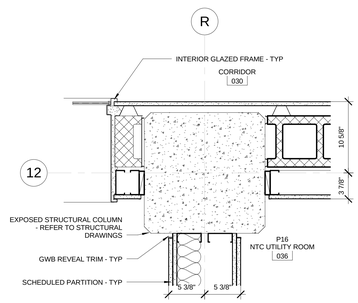
C1 PLAN DETAIL - LLS - ELEVATOR JAMB
1 1/2" = 1'-0"



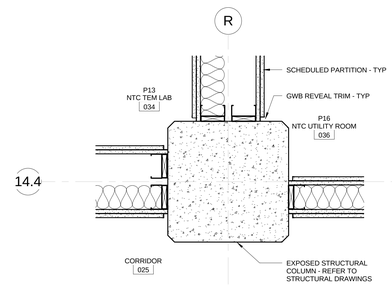
C5 PLAN DETAIL - LLS - DOOR 051 AT COLUMN
1 1/2" = 1'-0"



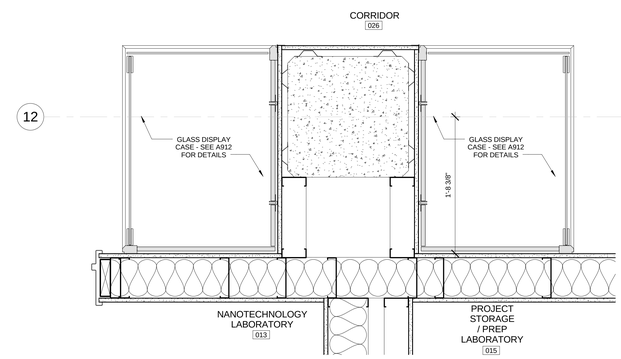
C7 PLAN DETAIL - LLS - DOORS 047-049 - JAMB W/ COLUMN
1 1/2" = 1'-0"



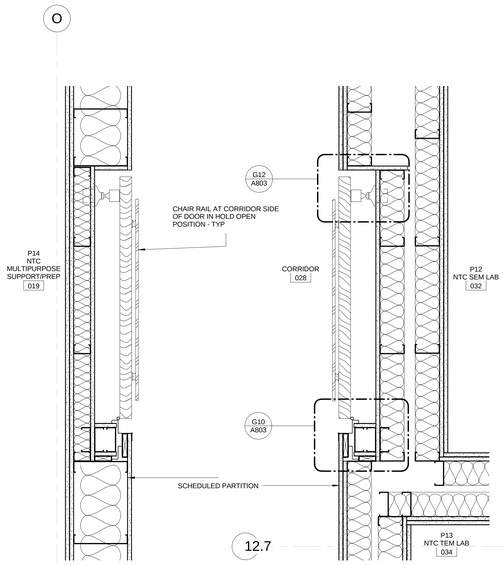
F1 PLAN DETAIL - LLS - COLUMN R/12
1 1/2" = 1'-0"



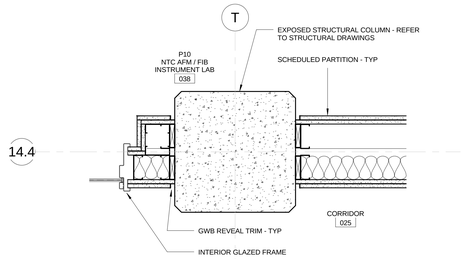
F4 PLAN DETAIL - LLS - COLUMN R/14.4
1 1/2" = 1'-0"



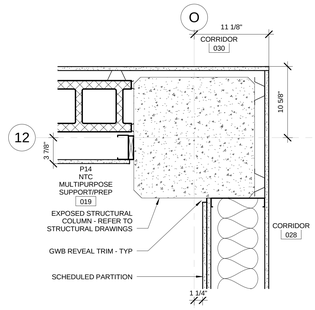
E7 PLAN DETAIL - LLS - COLUMN J/12
1 1/2" = 1'-0"



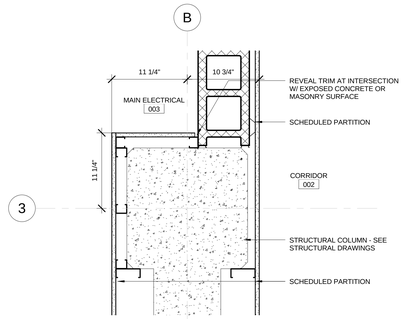
E12 PLAN DETAIL - LLS - DOOR 026 - JAMB S
1 1/2" = 1'-0"



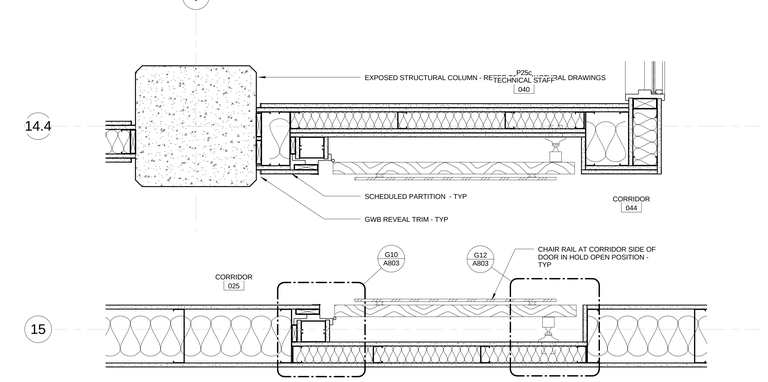
J1 PLAN DETAIL - LLS - COLUMN T/14.4
1 1/2" = 1'-0"



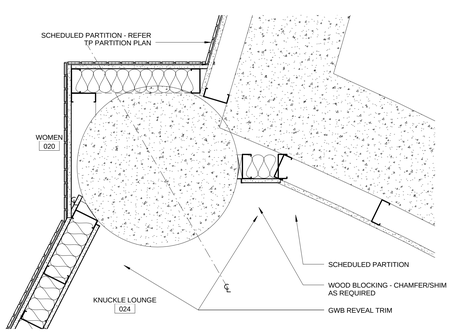
J4 PLAN DETAIL - LLS - COLUMN O-12
1 1/2" = 1'-0"



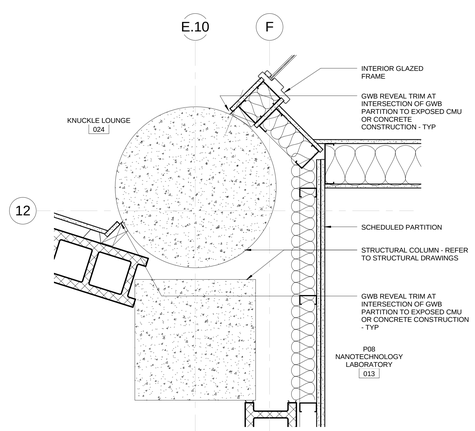
H1 PLAN DETAIL - LLN - COLUMN B/3
1 1/2" = 1'-0"



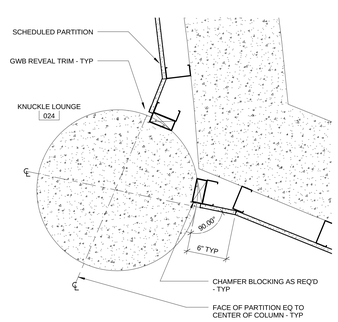
J11 PLAN DETAIL - LLS - DOOR 044
1 1/2" = 1'-0"



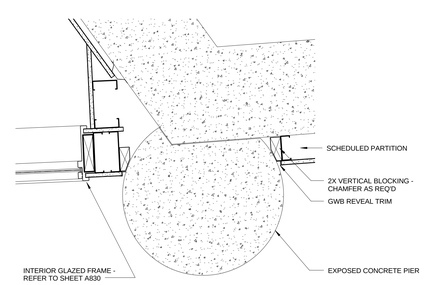
M1 PLAN DETAIL - LLN - COLUMN E/10.8
1 1/2" = 1'-0"



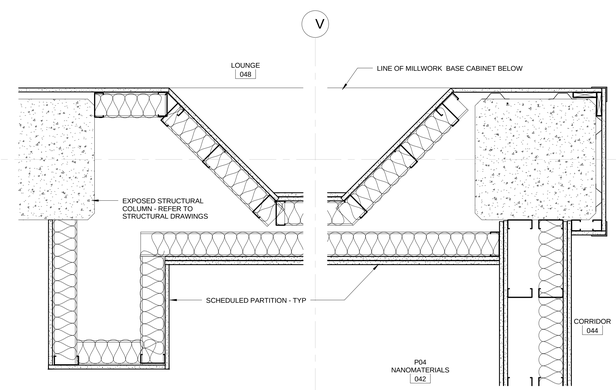
M4 PLAN DETAIL - LLS - COLUMN F/12
1 1/2" = 1'-0"



M8 PLAN DETAIL - LLS - COLUMN G/11.5
1 1/2" = 1'-0"



M10 PLAN DETAIL - LLS - ELEVATOR @ J.5
1 1/2" = 1'-0"



L11 PLAN DETAIL - LLS - DOOR 042 - JAMB
1 1/2" = 1'-0"

drawing title: PLAN DETAILS LOWER LEVEL

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

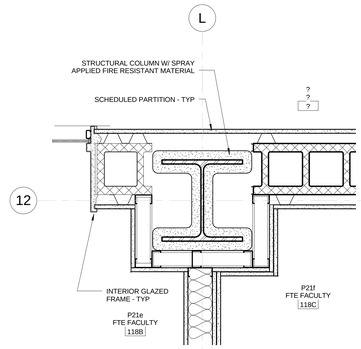
DRAWING: Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

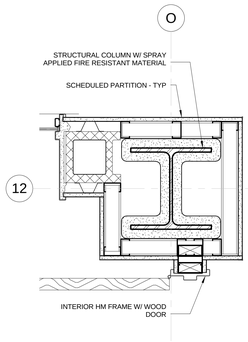
CAD: 1393 project no.: BI-RS-283

volume: 1 of 2
date: 11-21-2012
scale: 1 1/2" = 1'-0"
drawn by: BGA
approved by: RM/JBR
drawing no.: A630

Clifford Lloyd Reid 791 SCSU New Academic and Laboratory Building 2-11 Contrib_Graphics 11/21/2012 12:22:19 PM



C1 PLAN DETAIL - GLS - COLUMN L/12
1 1/2" = 1'-0"



C3 PLAN DETAIL - GLS - COLUMN O/12
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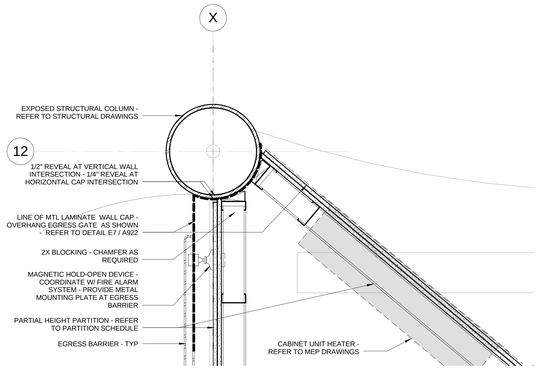
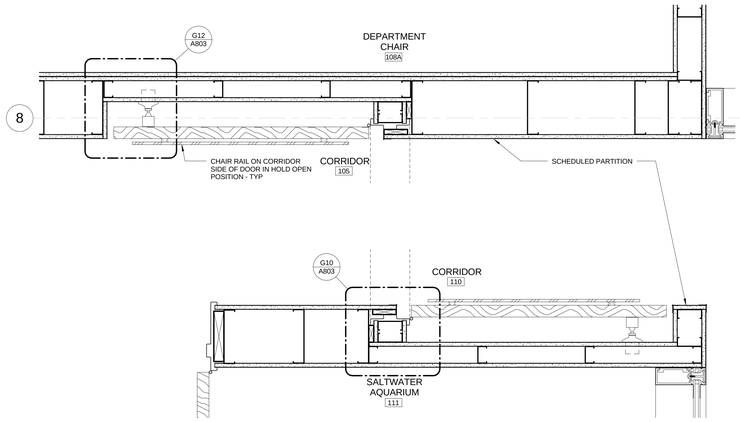
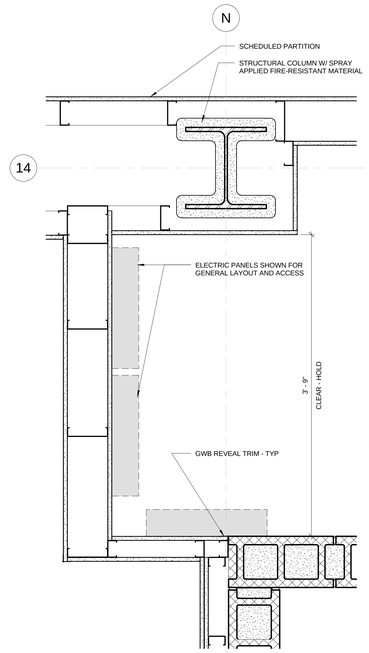


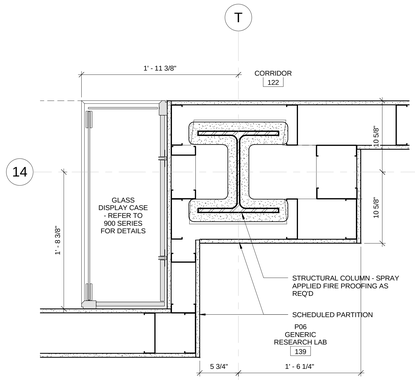
C6 PLAN DETAIL AT GROUND FLOOR - X/12
1 1/2" = 1'-0"



C11 PLAN DETAIL - GLN - DOOR 105
1 1/2" = 1'-0"



H1 PLAN DETAIL - GLS - COLUMN 4/14
1 1/2" = 1'-0"



G3 PLAN DETAIL - GLS - COLUMN T/14
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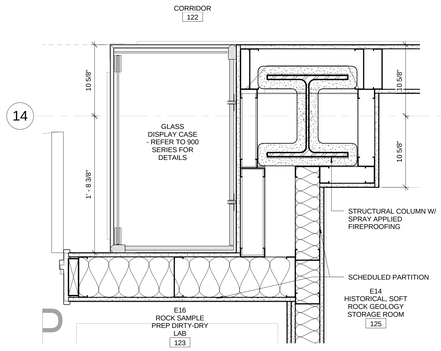

G6 PLAN DETAIL - GLS - COLUMN J/14
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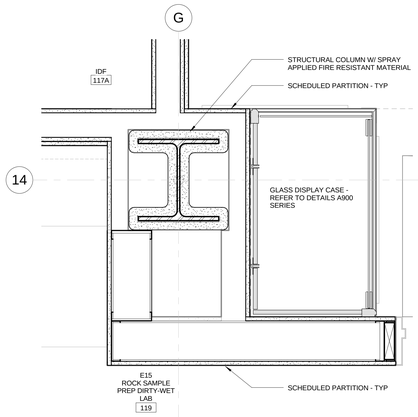
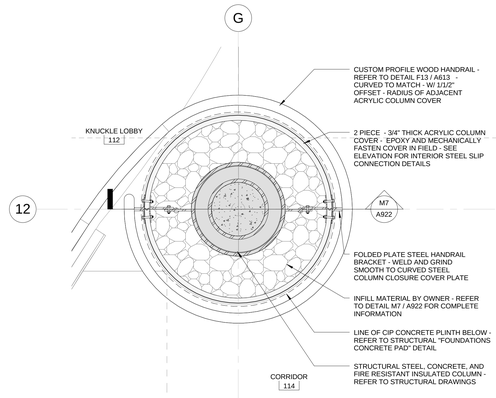
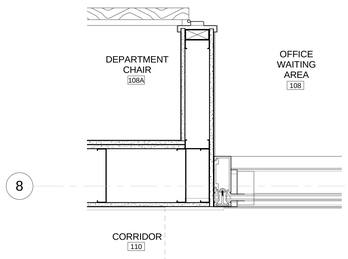


G9 PLAN DETAIL - GLS - COLUMN G/14
1 1/2" = 1'-0"



G12 DETAIL PLAN - STAIR 2 - GROUND FLOOR - G/12
1 1/2" = 1'-0"



J5 PLAN DETAIL - GLN - DOOR 108A
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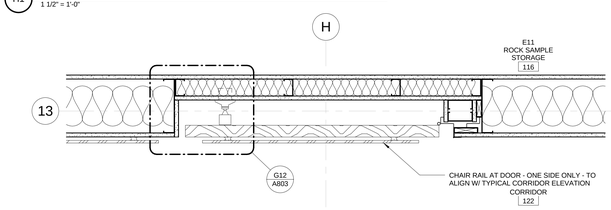
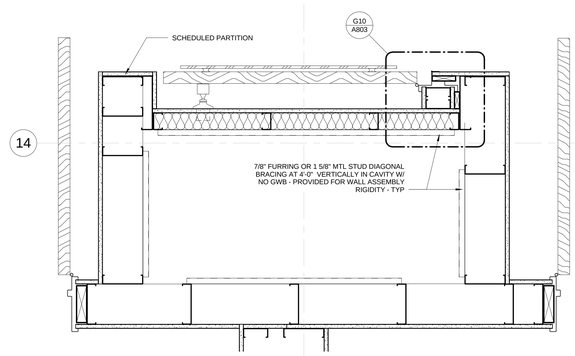
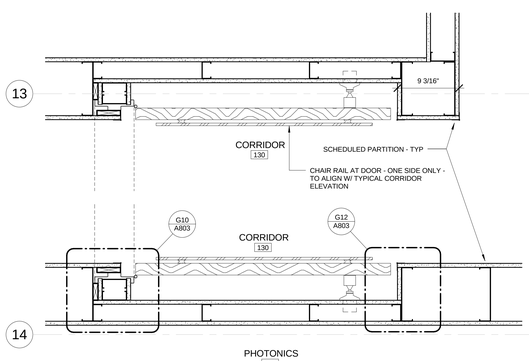




M1 PLAN DETAIL - GLS - COLUMN H/14
1 1/2" = 1'-0"



M4 PLAN DETAIL - GLS - DOOR 130
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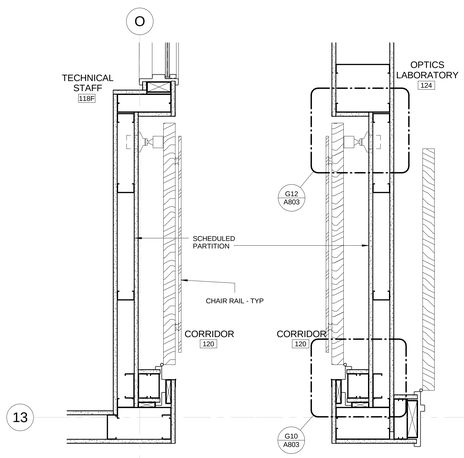


M8 PLAN DETAIL - GLS - DOOR 120
1 1/2" = 1'-0"

drawing title
PLAN DETAILS GROUND LEVEL

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

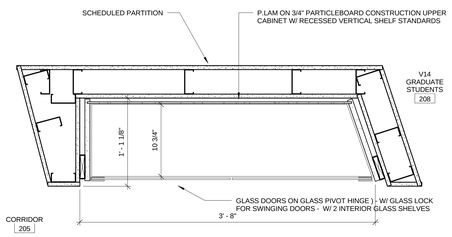
DRAWING
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

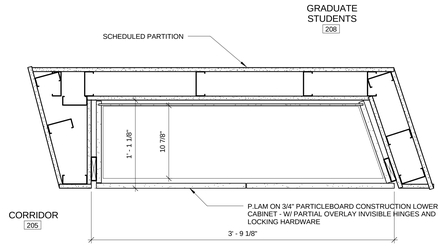
CAD file 1393
project no. BI-RS-283

volume 1 of 2
date 11-21-2012
scale 1 1/2" = 1'-0"
drawn by BGA
approved by RM/JBR
drawing no. A631

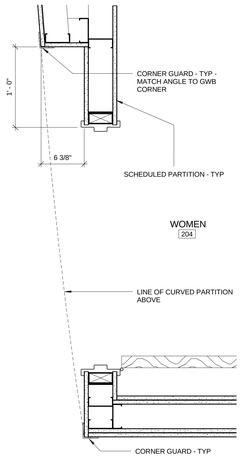
Clifford Lloyd Reid (R) SCSU New Academic and Laboratory Building #12 Century_Graphics 11/21/2012 12:24:45 PM



C1 PLAN DETAIL - 2LN - RM 208 - GLASS
1 1/2" = 1'-0"



C5 PLAN DETAIL - 2LN - RM 208 - CLOSET
1 1/2" = 1'-0"



D9 PLAN DETAIL - 2LN - DOOR 204
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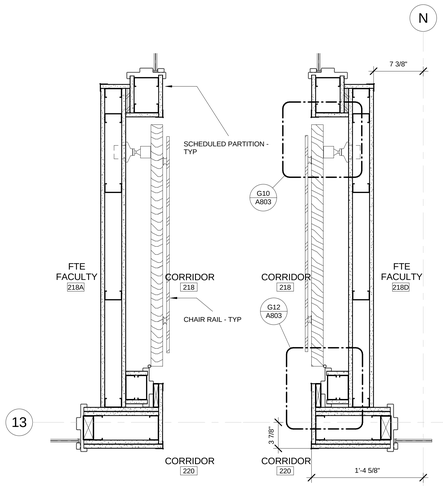

D12 PLAN DETAIL - 2LS - DOOR 218
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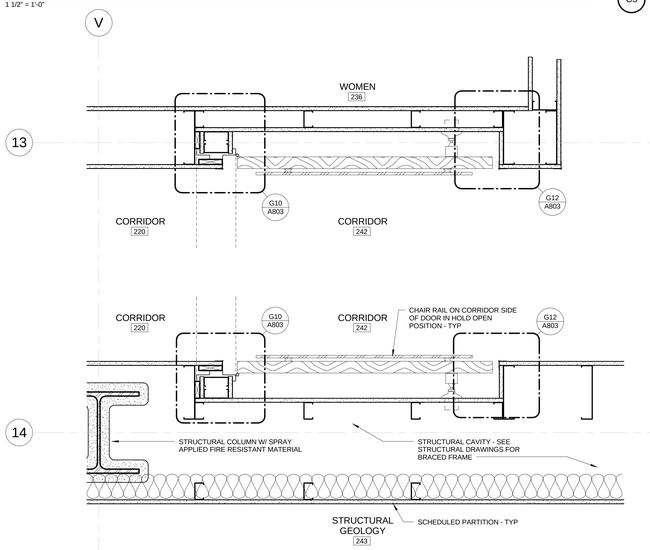

G1 PLAN DETAIL - 2LS - DOOR 242
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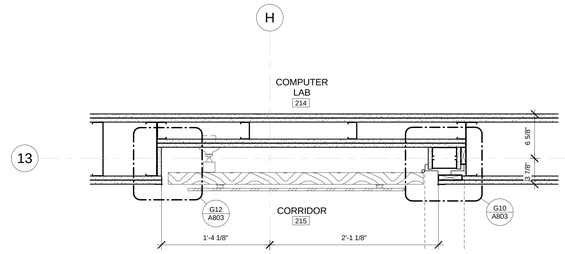

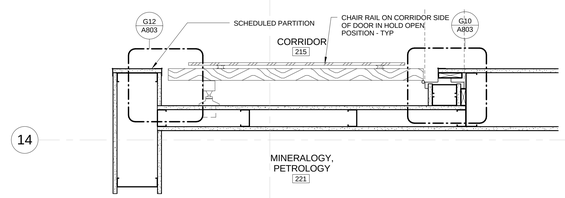

G5 PLAN DETAIL - 2LS - DOOR 215
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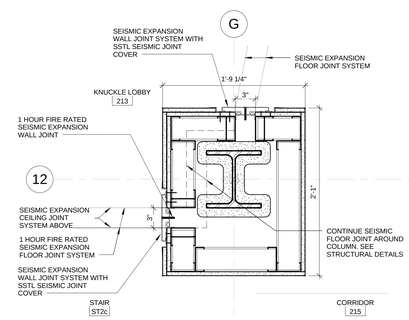
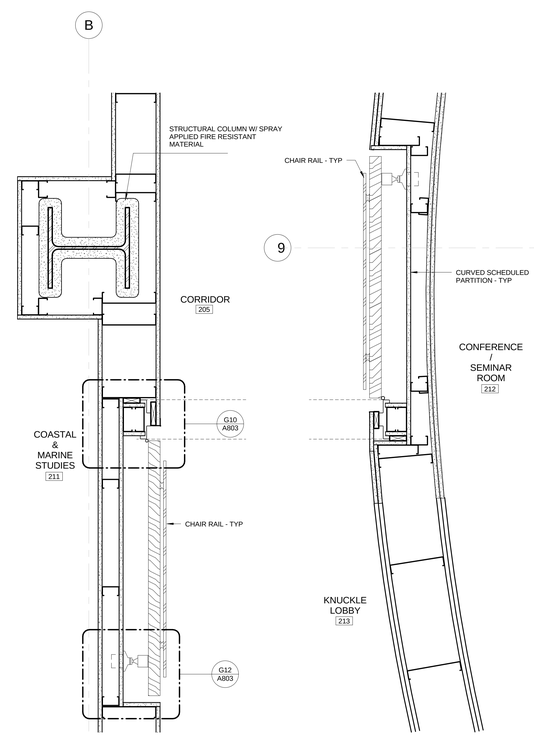
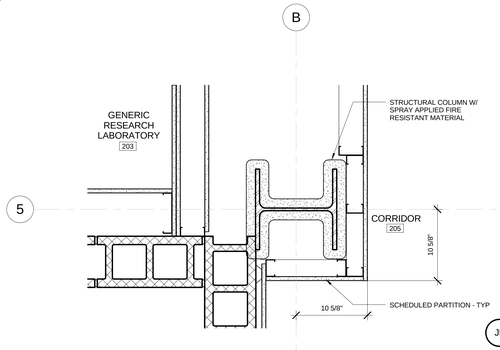


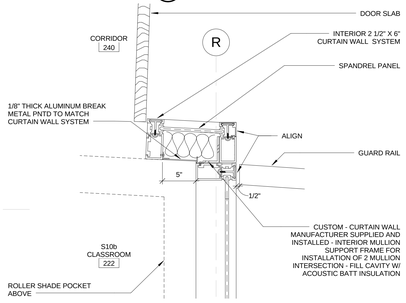
G9 PLAN DETAIL - 2LS - KNUCKLE LOBBY 213
1 1/2" = 1'-0"



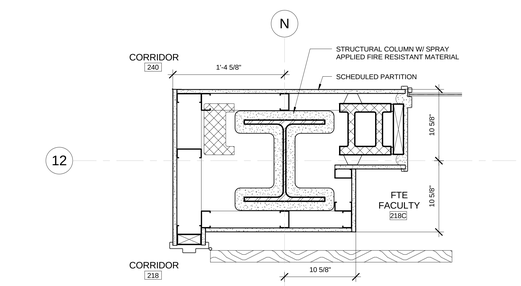
J12 PLAN DETAIL - 2LN - DOOR 205
1 1/2" = 1'-0"



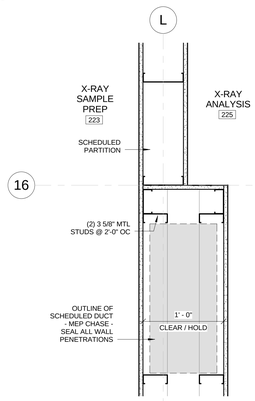
J1 PLAN DETAIL - 2LN - ELEV 1 AT COLUMN B/5
1 1/2" = 1'-0"



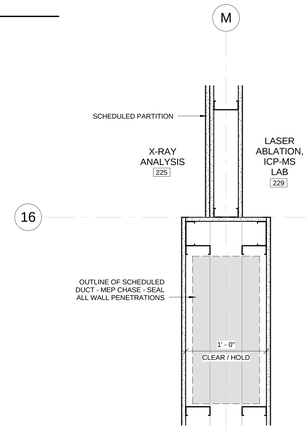
J5 PLAN DETAIL - 2LS - RM 222
1 1/2" = 1'-0"



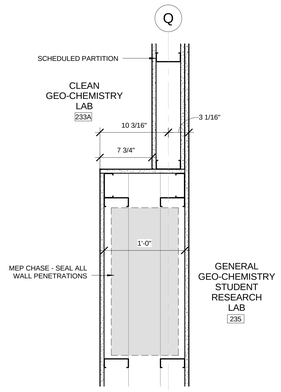
M1 PLAN DETAIL - 2LS - COLUMN N/12
1 1/2" = 1'-0"



M5 PLAN DETAIL - 2LS - COLUMN L/16
1 1/2" = 1'-0"



M7 PLAN DETAIL - 2LS - COLUMN M/16
1 1/2" = 1'-0"



M9 PLAN DETAIL - 2LS - COLUMN Q
1 1/2" = 1'-0"

drawing title
PLAN DETAILS SECOND LEVEL

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

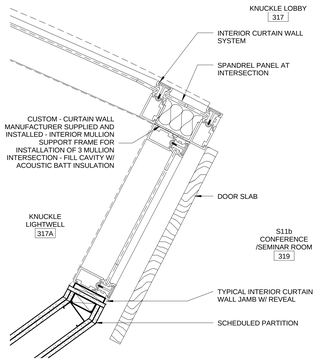
DRAWING
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

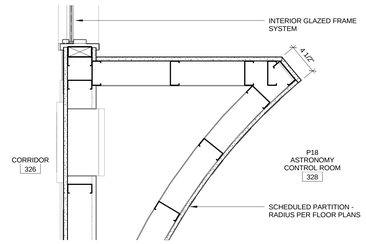
CAD file 1393
project no. BI-RS-283

volume 1 of 2
date 11-21-2012
scale 1 1/2" = 1'-0"
drawn by BGA
approved by RM/JBR
drawing no. A632

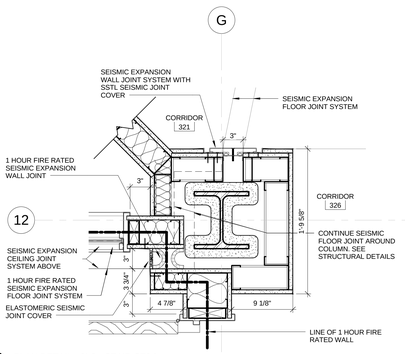
Clifford Graf Rast (R) SCSU New Academic and Laboratory Building 11-C Cents_Graphics 11/21/2012 12:23:10 PM



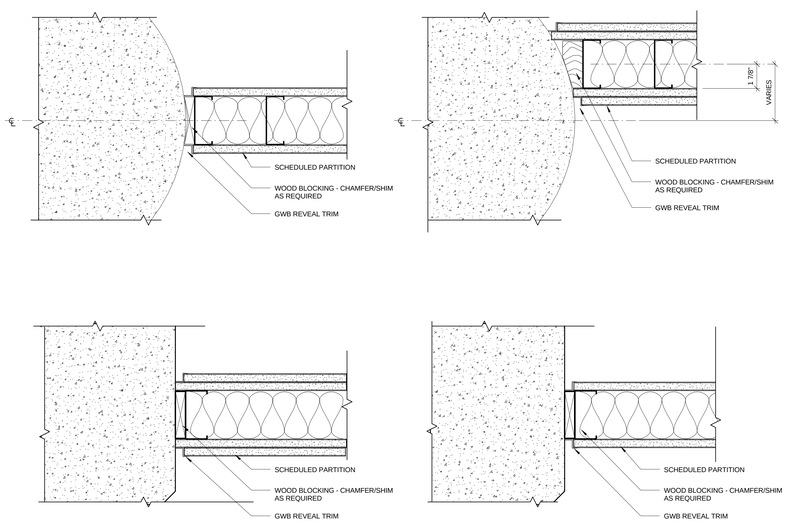
C12 PLAN DETAIL - 3LN - RM 319
1 1/2" = 1'-0"



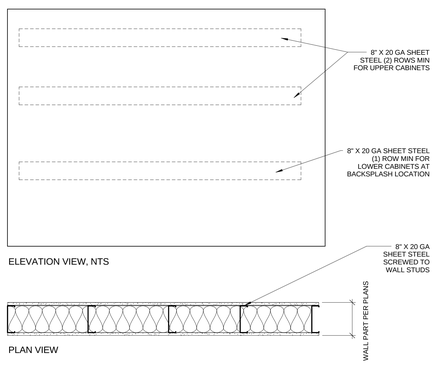
E12 PLAN DETAIL - 3LS - 328 RM ASTROLOGY CONTROL
1 1/2" = 1'-0"



J13 PLAN DETAIL - 3LS - STAIR ST2d
1 1/2" = 1'-0"



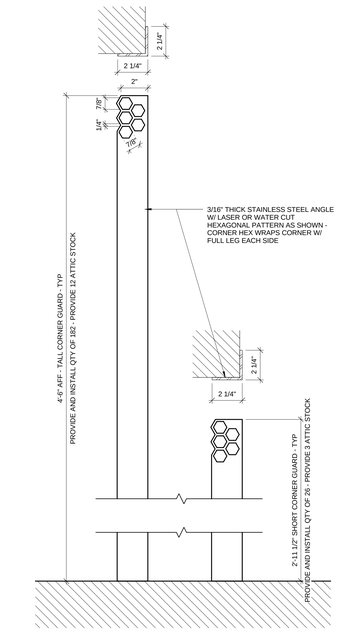
M1 TYPICAL GWB PARTITION TERMINATIONS
3" = 1'-0"



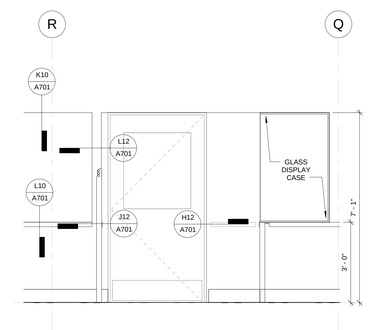
M7 WALL PARTITION BLOCKING
1" = 1'-0"

drawing title: PLAN DETAILS THIRD LEVEL – TYPICAL PLAN DETAILS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		volume 1 of 2
REVISIONS: mark / date / description	DRAWING: Centerbrook Architects and Planners, LLP, 67 Main Street, Post Office Box 955, Centerbrook, Connecticut 06409-0955		date: 11-21-2012
11-21-2012 Bid Documents	project: SCSU NEW ACADEMIC LABORATORY BUILDING		scale: As indicated
			drawn by: BGA
			approved by: RM/JBR
	CAD: 1393	project no.: BI-RS-283	drawing no.: A633

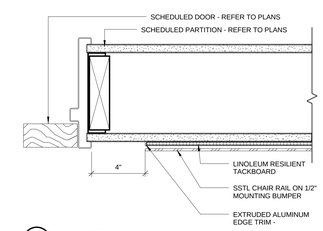
Clifford Lloyd Fitch PE/SCSU New Academic and Laboratory Building 2012 Center_Graphics 11/21/2012 12:22:22 PM



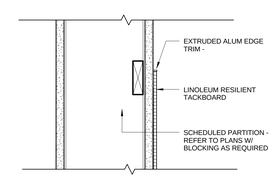
E14 TYPICAL CORNER GUARD DETAIL
3" = 1'-0"



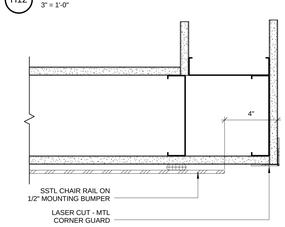
H10 INTERIOR ELEVATION - TYPICAL ELEVATION CONDITIONS
1/2" = 1'-0"



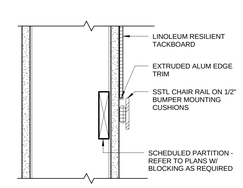
H12 PLAN DETAIL - CHAIRRAIL JAMB DETAIL
3" = 1'-0"



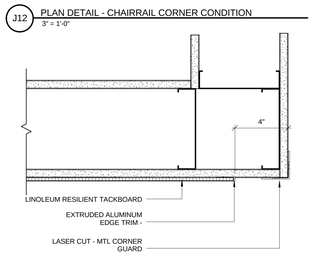
K10 SECTION DETAIL - TACKBOARD HEAD CONDITION
3" = 1'-0"



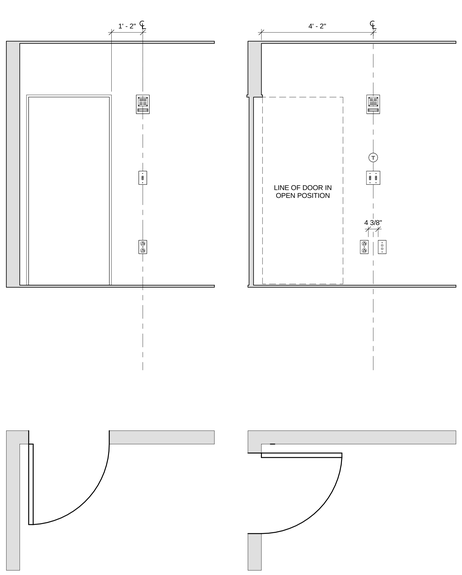
J12 PLAN DETAIL - CHAIRRAIL CORNER CONDITION
3" = 1'-0"



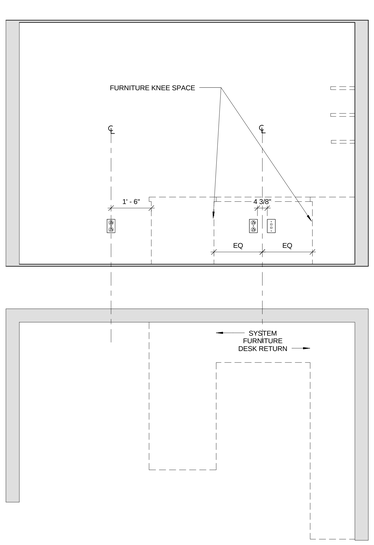
L10 SECTION DETAIL - TACKBOARD SILL CONDITION
3" = 1'-0"



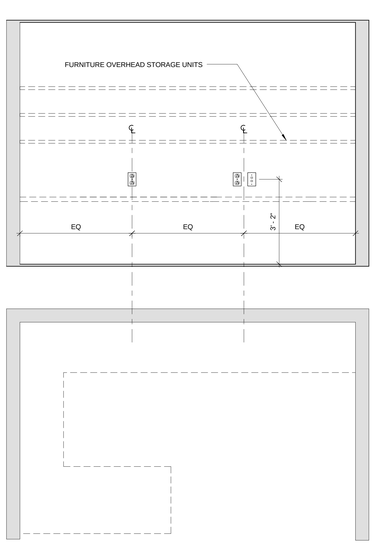
L12 PLAN DETAIL - TACKBOARD CORNER CONDITION
3" = 1'-0"



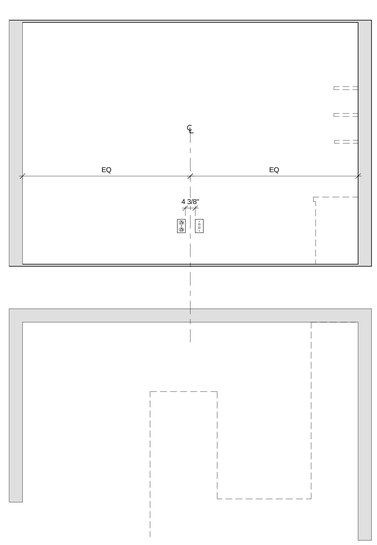
DEVICE LOCATION AT ROOM ENTRY DOOR - TYPICAL



DEVICE LOCATION AT DESK WALL - TYPICAL



DEVICE LOCATION AT REAR WALL - TYPICAL



DEVICE LOCATION AT FREE WALL - TYPICAL

M1 TYPICAL DEVICE PLACEMENT
1/2" = 1'-0"

drawing title
INTERIOR ELEVATIONS – TYPICAL CONDITIONS

REVISIONS

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	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
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project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

volume 1 of 2
date 11-21-2012
scale As indicated
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checked by RM/JBR
drawing no. A701

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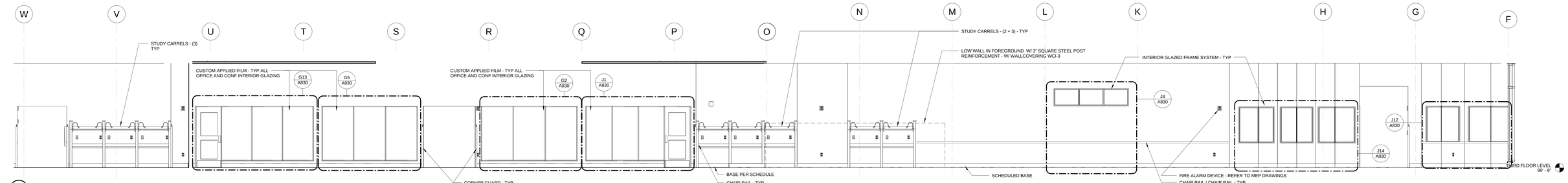
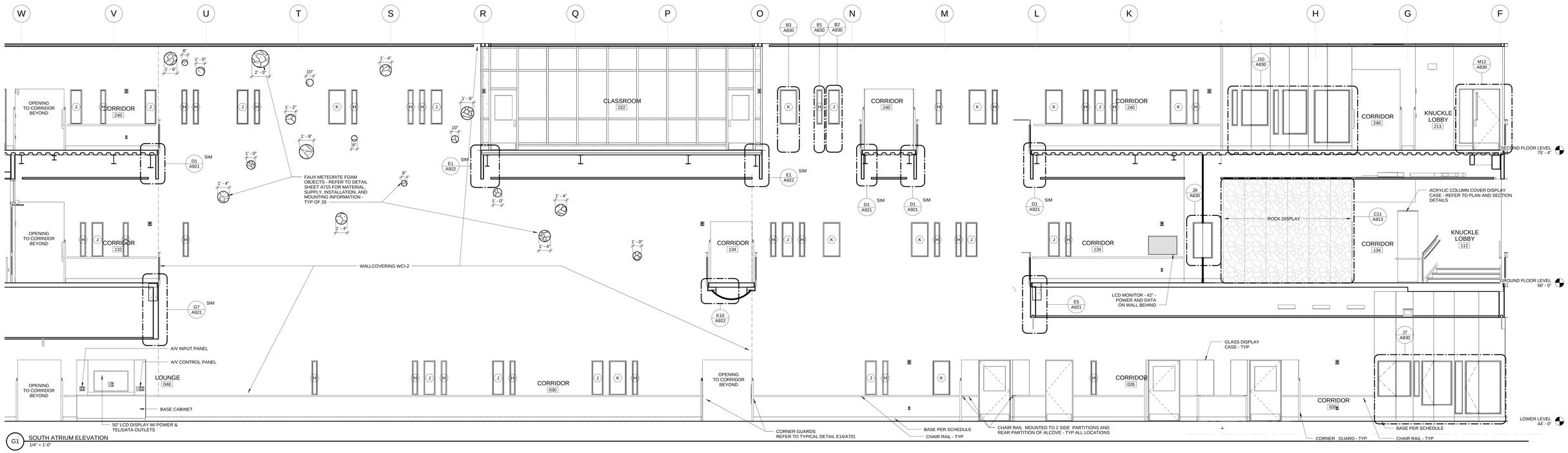
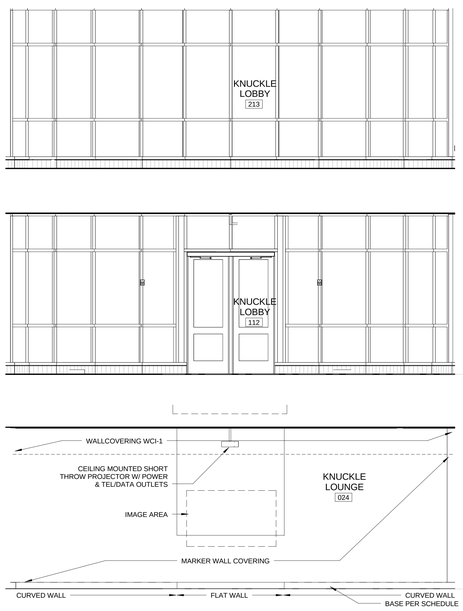


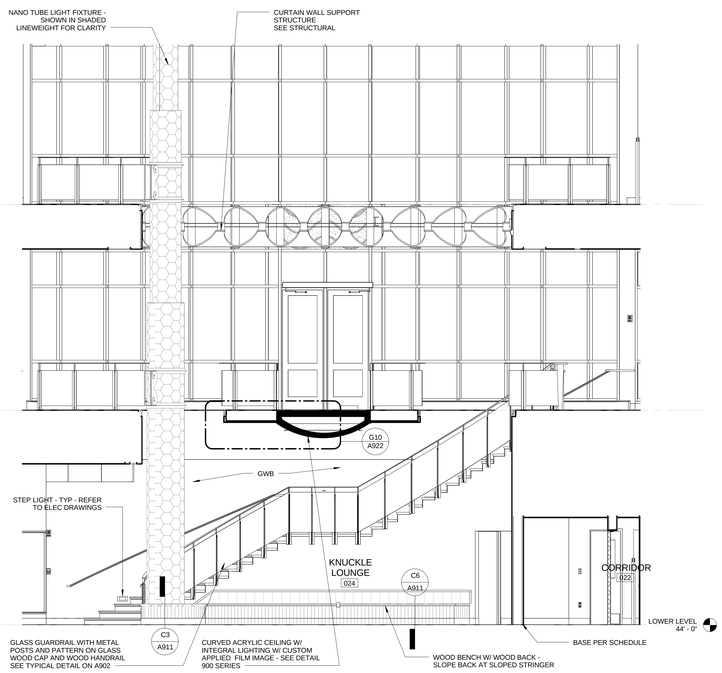
B1 THIRD FLOOR SOUTH LOUNGE ELEVATION
1/4" = 1'-0"



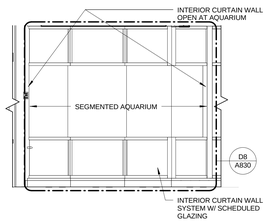
G1 SOUTH ATRIUM ELEVATION
1/4" = 1'-0"



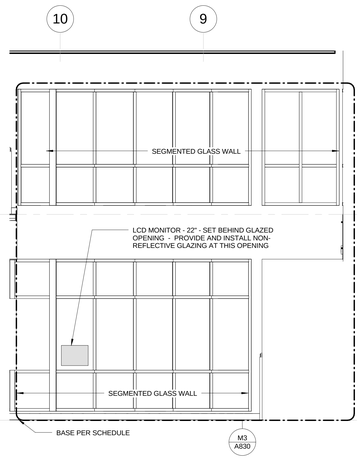
M1 KNUCKLE LOUNGE SOUTHEAST ELEVATION
1/4" = 1'-0"



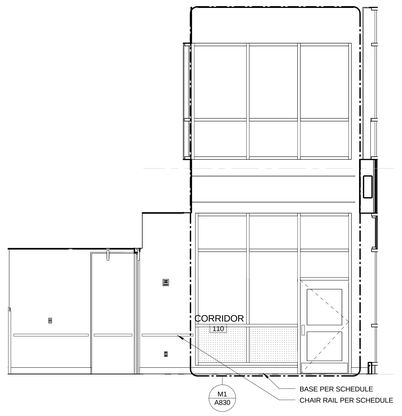
M5 KNUCKLE LOUNGE NORTHWEST ELEVATION
1/4" = 1'-0"



L9 112 KNUCKLE - AQUARIUM ELEVATION
1/4" = 1'-0"



L11 NORTH WING LOUNGE - NORTH ELEVATION
1/4" = 1'-0"



L12 NORTH WING LOUNGE - EAST ELEVATION
1/4" = 1'-0"

drawing title
INTERIOR ELEVATIONS – ATRUIM AND KNUCKLE

REVISIONS

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	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
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project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

sheet 1 of 2
date 11-21-2012
scale 1/4" = 1'-0"
drawn by BGA
RMJBR
drawing no. A702

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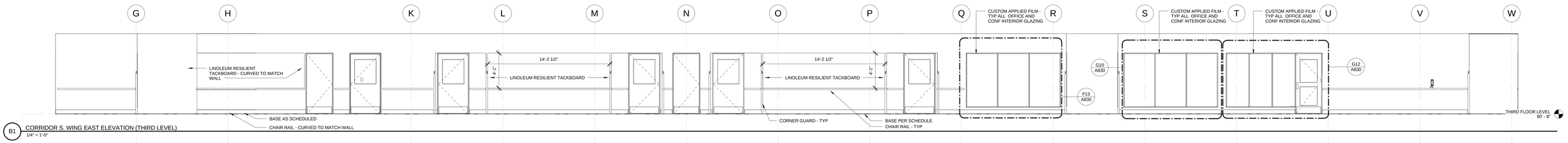
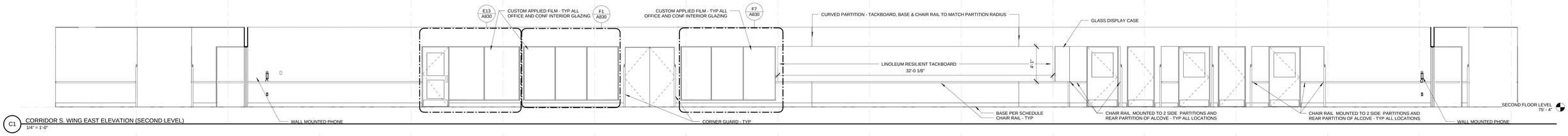
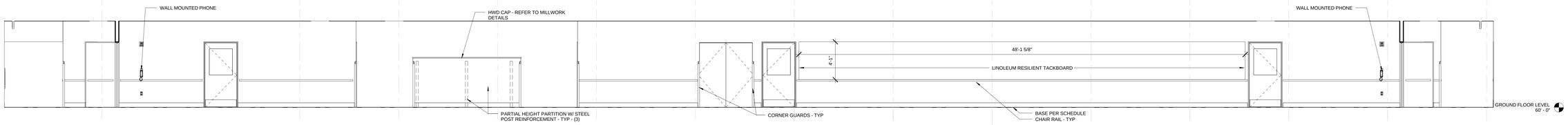


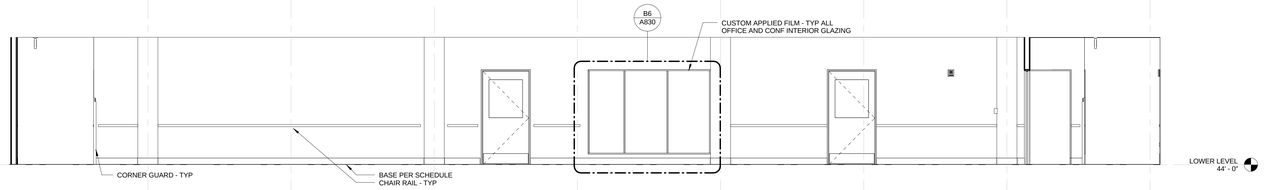
B1 CORRIDOR S. WING EAST ELEVATION (THIRD LEVEL)
1/4" = 1'-0"



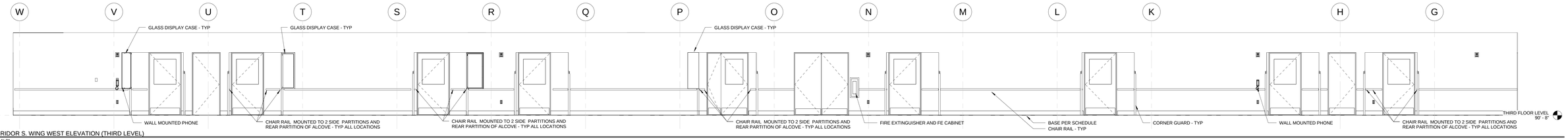
C1 CORRIDOR S. WING EAST ELEVATION (SECOND LEVEL)
1/4" = 1'-0"



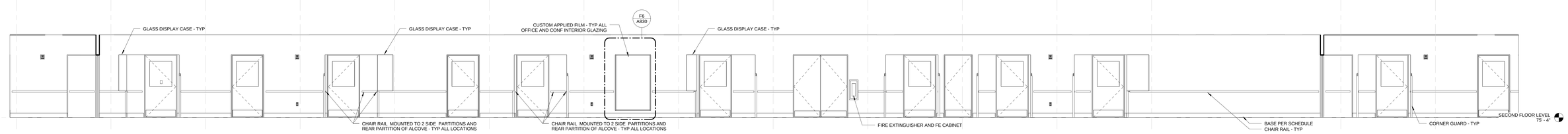
E1 CORRIDOR S. WING EAST ELEVATION (GROUND LEVEL)
1/4" = 1'-0"



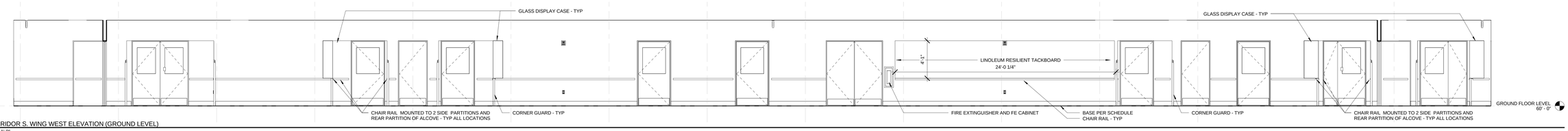
F7 CORRIDOR S. WING EAST ELEVATION (LOWER LEVEL)
1/4" = 1'-0"



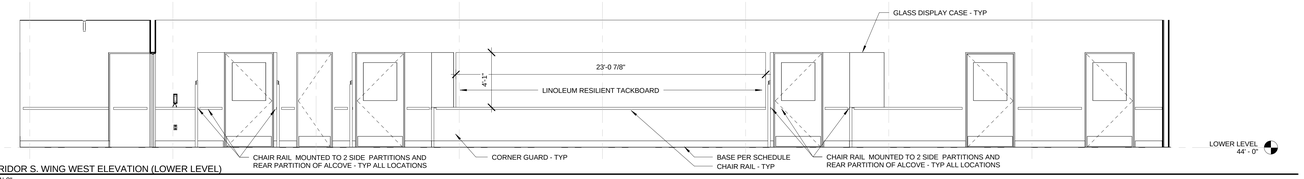
H1 CORRIDOR S. WING WEST ELEVATION (THIRD LEVEL)
1/4" = 1'-0"



J1 CORRIDOR S. WING WEST ELEVATION (SECOND LEVEL)
1/4" = 1'-0"



L1 CORRIDOR S. WING WEST ELEVATION (GROUND LEVEL)
1/4" = 1'-0"



M1 CORRIDOR S. WING WEST ELEVATION (LOWER LEVEL)
1/4" = 1'-0"

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drawing title
INTERIOR ELEVATIONS – SOUTH WING CORRIDORS

REVISIONS

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	11-21-2012	Bid Documents

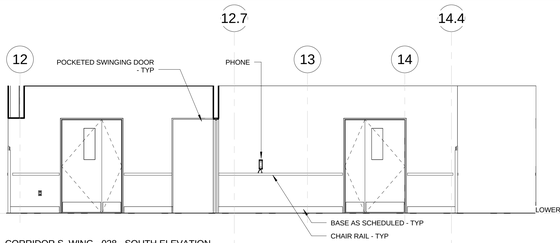
STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING DEVELOPED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

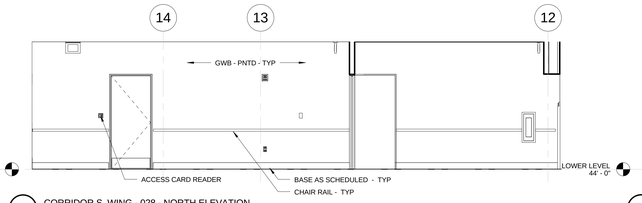
project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

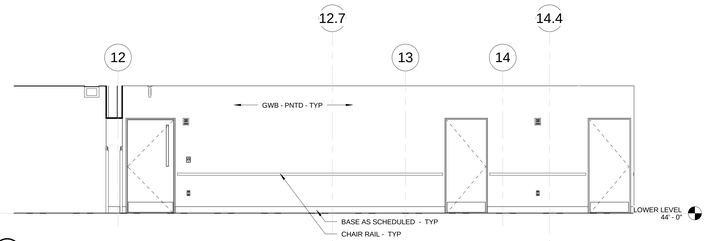
sheet no. 1 of 2
date 11-21-2012
scale 1/4" = 1'-0"
drawn by BGA
checked by RMJBR
drawing no. A703



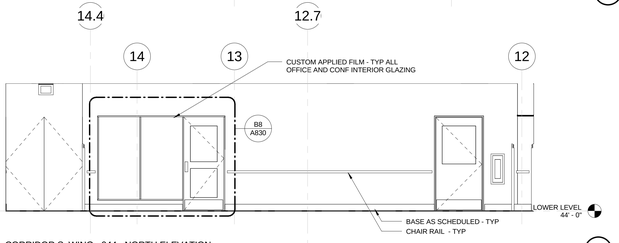
B1 CORRIDOR S. WING - 028 - SOUTH ELEVATION
1/4" = 1'-0"



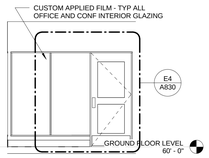
B5 CORRIDOR S. WING - 028 - NORTH ELEVATION
1/4" = 1'-0"



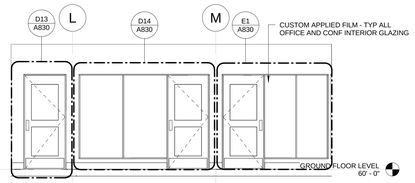
B8 CORRIDOR S. WING - 044 - SOUTH ELEVATION
1/4" = 1'-0"



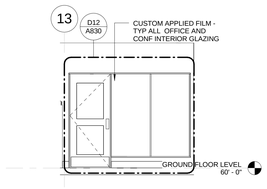
D1 CORRIDOR S. WING - 044 - NORTH ELEVATION
1/4" = 1'-0"



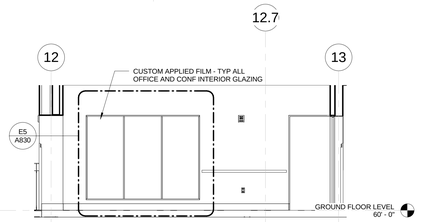
D5 CORRIDOR S. WING - 118 GRAD STUDENTS - S. ELEVATION
1/4" = 1'-0"



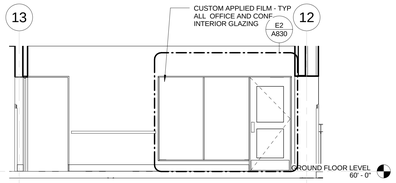
D6 CORRIDOR S. WING - 118 GRAD STUDENTS
1/4" = 1'-0"



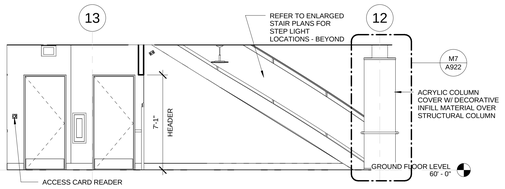
D9 CORRIDOR S. WING - 118 GRAD STUDENTS - NORTH
1/4" = 1'-0"



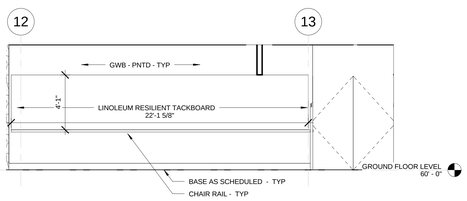
D11 CORRIDOR S. WING - 120 - SOUTH
1/4" = 1'-0"



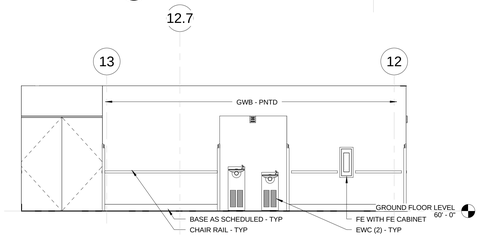
E1 CORRIDOR S. WING - 120 NORTH
1/4" = 1'-0"



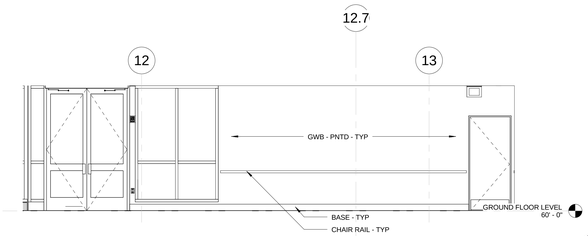
E3 CORRIDOR S. WING - 114 - NORTH ELEVATION
1/4" = 1'-0"



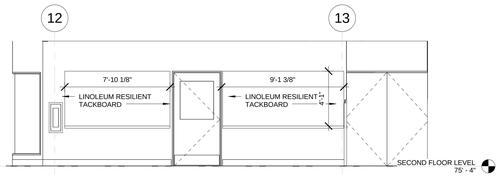
E7 CORRIDOR S. WING - 114 - SOUTH ELEVATION
1/4" = 1'-0"



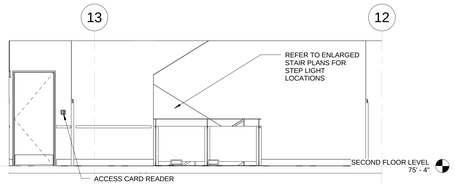
E10 CORRIDOR S. WING - 130 - NORTH ELEVATION
1/4" = 1'-0"



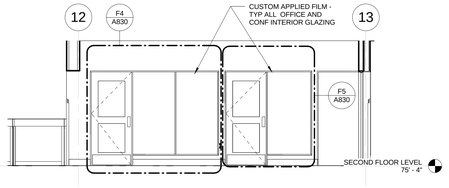
G1 CORRIDOR S. WING - 130 - SOUTH ELEVATION
1/4" = 1'-0"



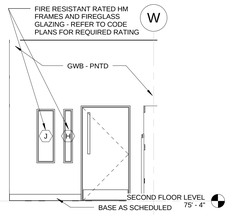
G5 CORRIDOR S. WING - 215 - SOUTH ELEVATION
1/4" = 1'-0"



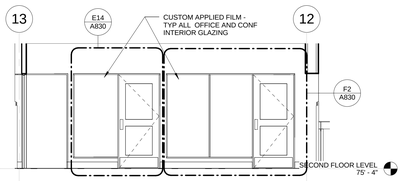
G8 CORRIDOR S. WING - 215 - NORTH ELEVATION
1/4" = 1'-0"



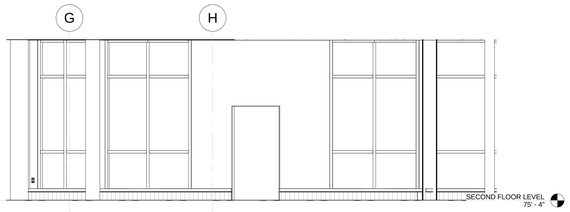
G11 CORRIDOR S. WING - 218 SOUTH ELEVATION
1/4" = 1'-0"



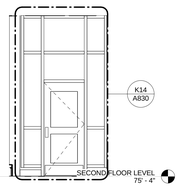
G14 CORRIDOR S. WING - 240 - SOUTH END WEST
1/4" = 1'-0"



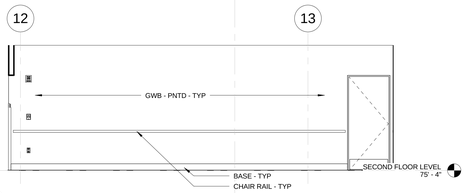
J1 CORRIDOR S. WING - 218 - NORTH
1/4" = 1'-0"



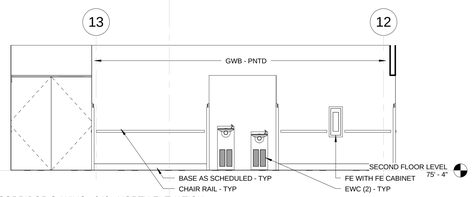
J4 CORRIDOR S. WING - 240 - EAST ELEVATION AT ELEVATOR TOWER
1/4" = 1'-0"



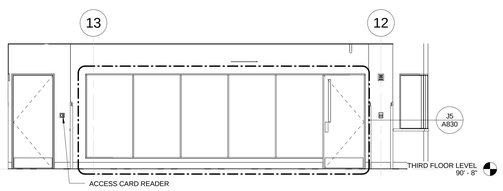
J8 CORRIDOR S. WING - 240 SOUTH GROUP STUDY ELEVATION
1/4" = 1'-0"



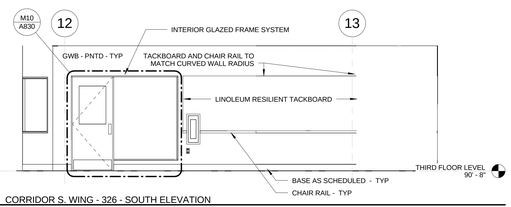
J10 CORRIDOR S. WING - 242 - SOUTH ELEVATION
1/4" = 1'-0"



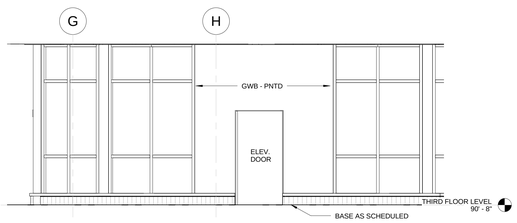
J14 CORRIDOR S. WING - 242 - NORTH ELEVATION
1/4" = 1'-0"



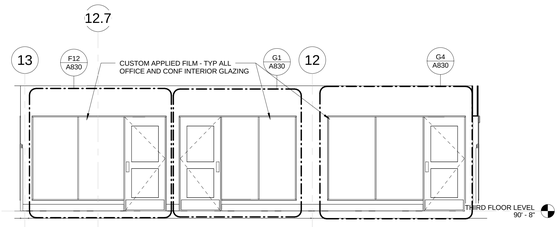
L1 CORRIDOR S. WING - 326 - NORTH ELEVATION
1/4" = 1'-0"



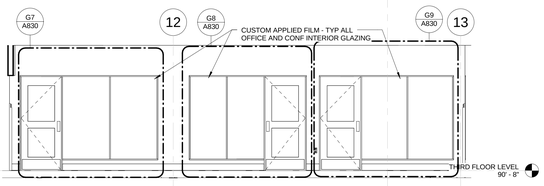
L5 CORRIDOR S. WING - 326 - SOUTH ELEVATION
1/4" = 1'-0"



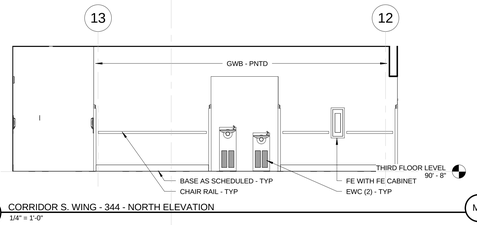
L8 CORRIDOR S. WING - 321 - EAST ELEVATION AT ELEVATOR TOWER
1/4" = 1'-0"



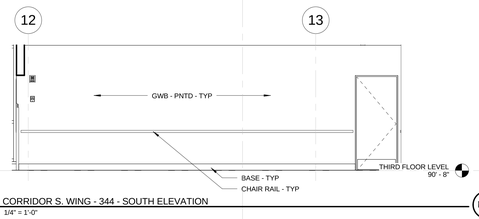
L12 CORRIDOR S. WING - 340 NORTH ELEVATION
1/4" = 1'-0"



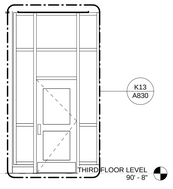
M1 CORRIDOR S. WING - 340 SOUTH ELEVATION
1/4" = 1'-0"



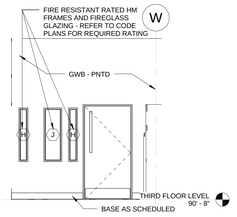
M5 CORRIDOR S. WING - 344 - NORTH ELEVATION
1/4" = 1'-0"



M8 CORRIDOR S. WING - 344 - SOUTH ELEVATION
1/4" = 1'-0"



M10 CORRIDOR S. WING - 350 - SOUTH ELEVATION
1/4" = 1'-0"



M12 CORRIDOR S. WING - 350 - WEST ELEVATION
1/4" = 1'-0"

project title
INTERIOR ELEVATIONS – SOUTH WING CORRIDORS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

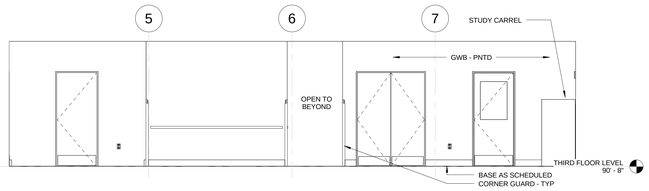
DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

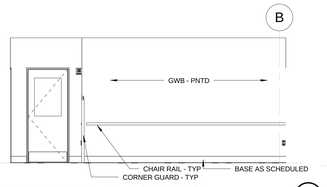
CAD no. 1393
project no. BI-RS-283

volume 1 of 2
date 11-21-2012
1/4" = 1'-0"
drawn by BGA
checked by RM/JBR
drawing no. A704

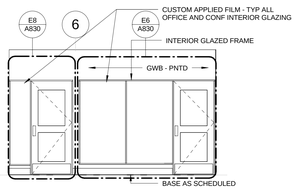
Collect Local Field 391 ECSU New Academic and Laboratory Building A13 Central_Corridor.rvt 11/21/2012 12:25:13 PM



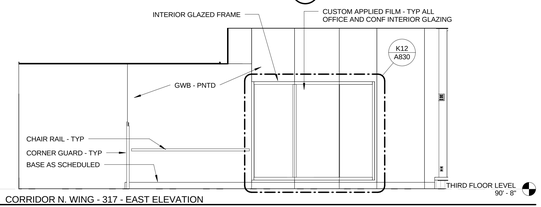
B1 CORRIDOR N. WING 311 - SOUTH ELEVATION
1/4" = 1'-0"



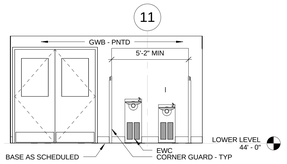
C1 CORRIDOR N. WING - 207 - EAST ELEVATION
1/4" = 1'-0"



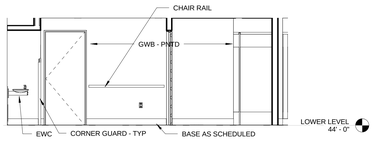
C3 CORRIDOR N. WING - 207 - NORTH ELEVATION
1/4" = 1'-0"



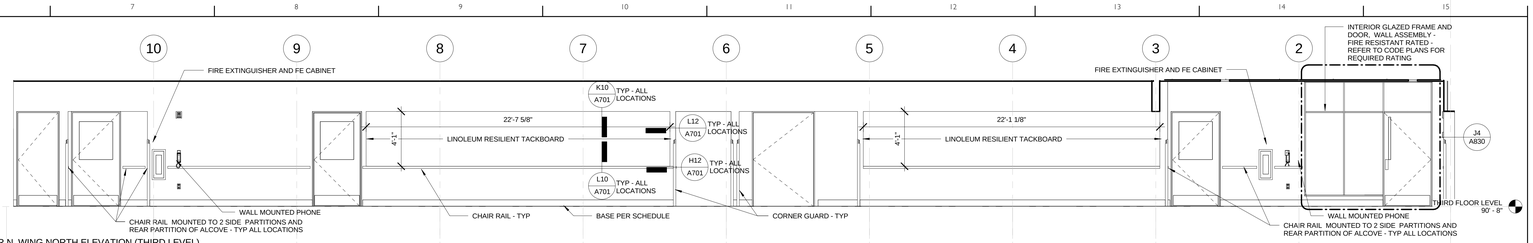
E1 CORRIDOR N. WING - 317 - EAST ELEVATION
1/4" = 1'-0"



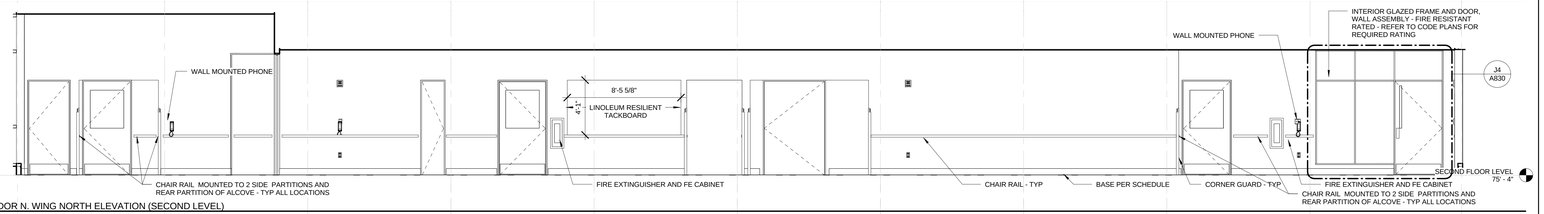
F1 CORRIDOR N. WING - 022 - NORTH ELEVATION
1/4" = 1'-0"



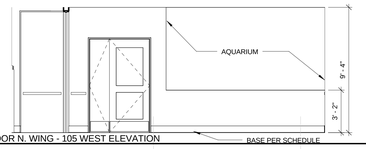
F3 CORRIDOR N. WING - 022 - EAST ELEVATION
1/4" = 1'-0"



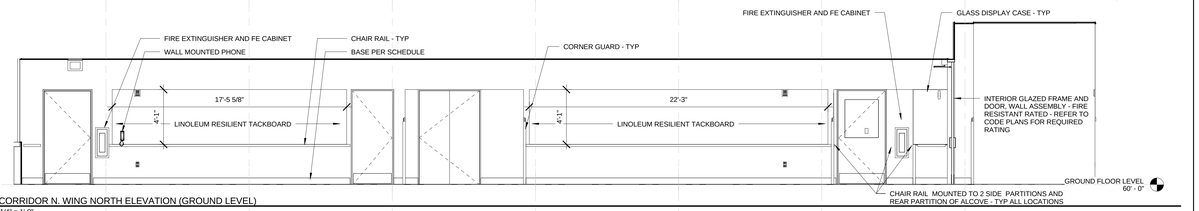
B6 CORRIDOR N. WING NORTH ELEVATION (THIRD LEVEL)
1/4" = 1'-0"



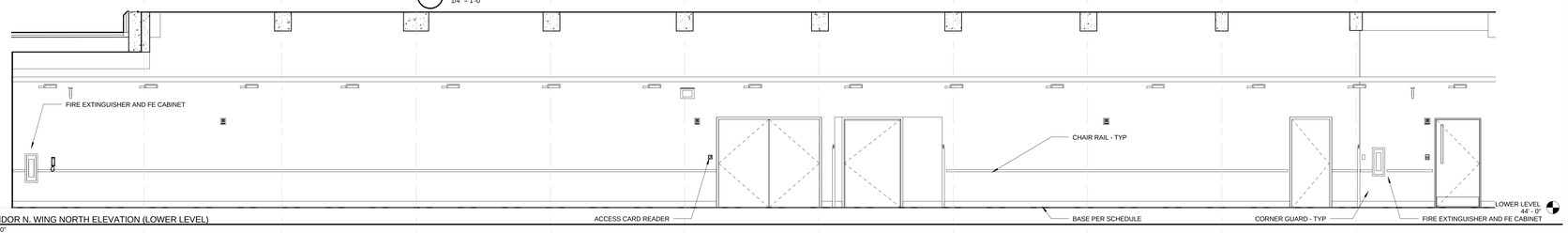
C6 CORRIDOR N. WING NORTH ELEVATION (SECOND LEVEL)
1/4" = 1'-0"



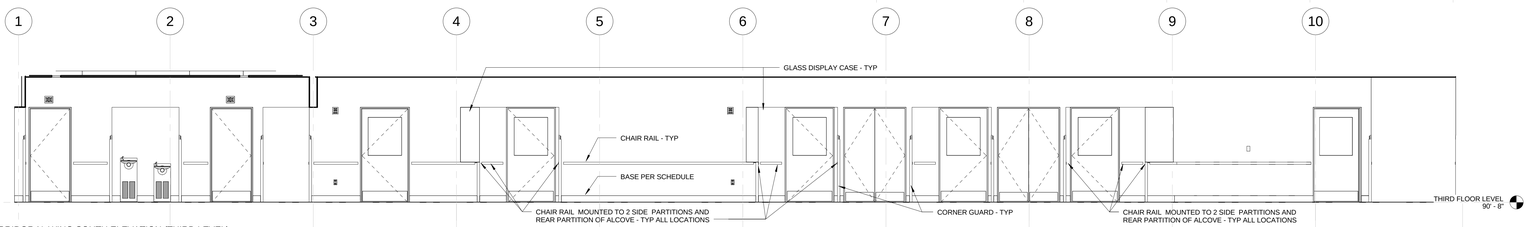
E5 CORRIDOR N. WING - 105 WEST ELEVATION
1/4" = 1'-0"



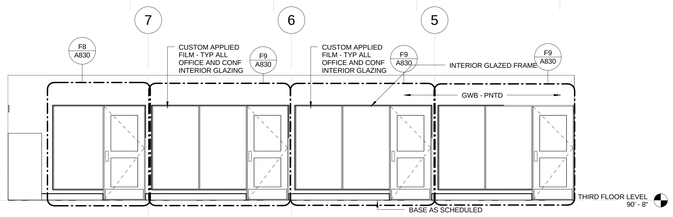
E8 CORRIDOR N. WING NORTH ELEVATION (GROUND LEVEL)
1/4" = 1'-0"



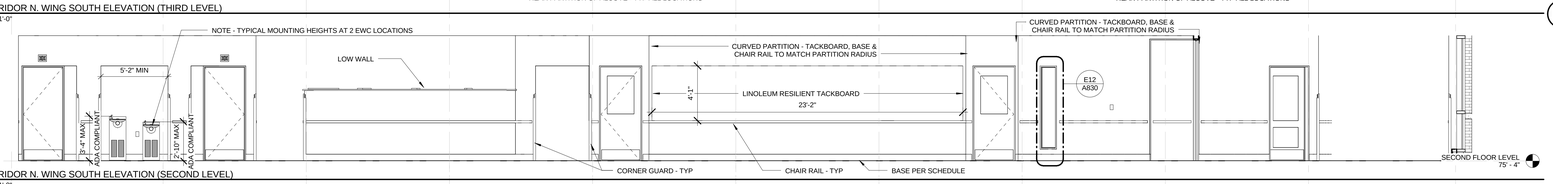
F5 CORRIDOR N. WING NORTH ELEVATION (LOWER LEVEL)
1/4" = 1'-0"



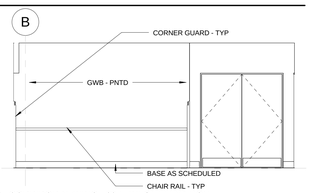
H1 CORRIDOR N. WING SOUTH ELEVATION (THIRD LEVEL)
1/4" = 1'-0"



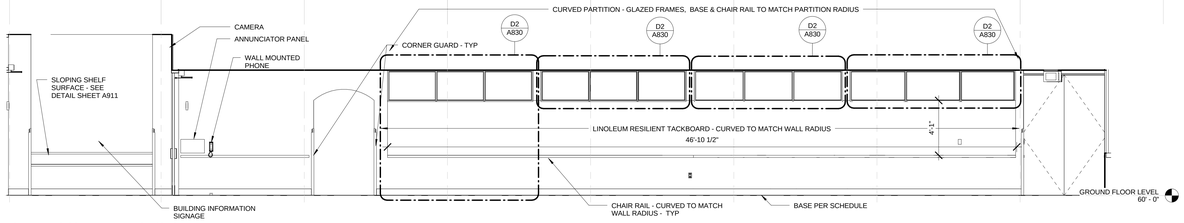
H10 CORRIDOR N. WING 311 - NORTH ELEVATION
1/4" = 1'-0"



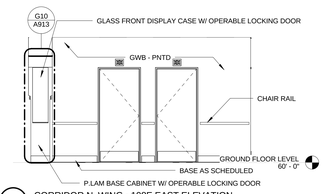
J1 CORRIDOR N. WING SOUTH ELEVATION (SECOND LEVEL)
1/4" = 1'-0"



J12 CORRIDOR N. WING - 207 - WEST ELEVATION
1/4" = 1'-0"

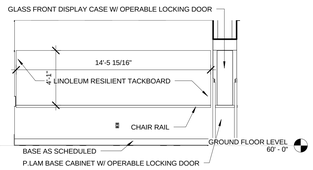


L1 CORRIDOR N. WING SOUTH ELEVATION (GROUND LEVEL)
1/4" = 1'-0"

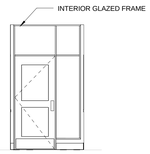


L8 CORRIDOR N. WING - 108E EAST ELEVATION
1/4" = 1'-0"

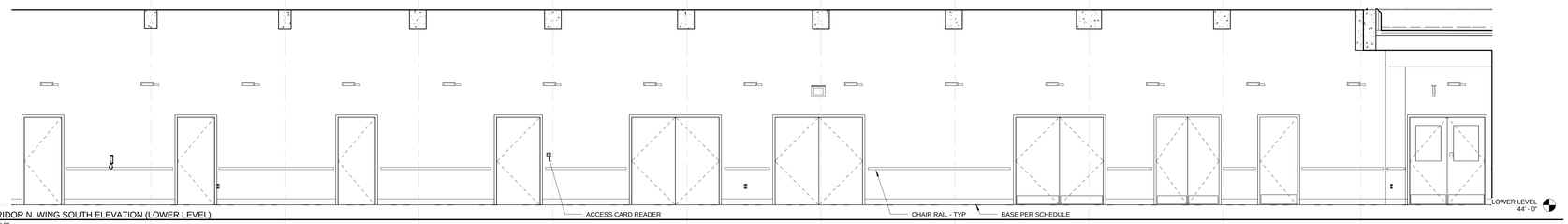
L10 CORRIDOR N. WING - 108E NORTH ELEVATION
1/4" = 1'-0"



L12 CORRIDOR N. WING - 108E WEST ELEVATION
1/4" = 1'-0"



L14 CORRIDOR N. WING - 108E SOUTH ELEVATION
1/4" = 1'-0"



M1 CORRIDOR N. WING SOUTH ELEVATION (LOWER LEVEL)
1/4" = 1'-0"

drawing title
INTERIOR ELEVATIONS – NORTH WING CORRIDORS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

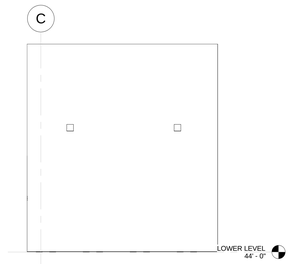
DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

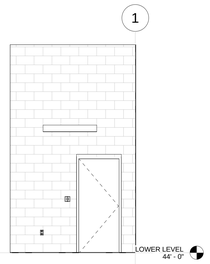
CAD no. 1393
project no. BI-RS-283

sheet no. 1 of 2
date 11-21-2012
scale 1/4" = 1'-0"
drawn by BGA
RMJ/BR
drawing no. A705

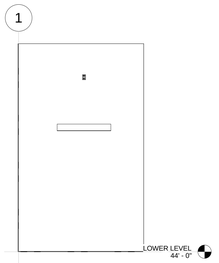
Collaborative Field PR 1252 / New Academic and Laboratory Building A-17 Ceiling Graphics 1/21/2012 12:53:30 PM



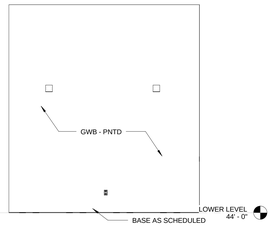
B1 RM 004 - TANK STORAGE EAST
1/4" = 1'-0"



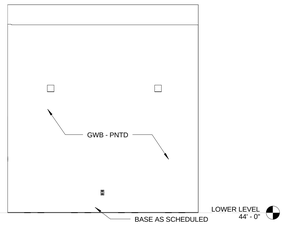
B3 RM 004 - TANK STORAGE NORTH
1/4" = 1'-0"



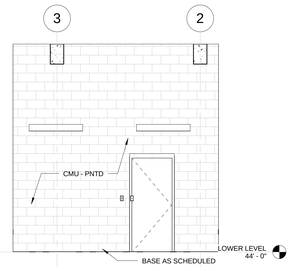
B4 RM 004 - TANK STORAGE SOUTH
1/4" = 1'-0"



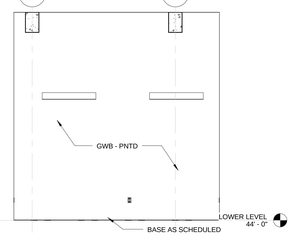
B6 RM 004 - TANK STORAGE WEST
1/4" = 1'-0"



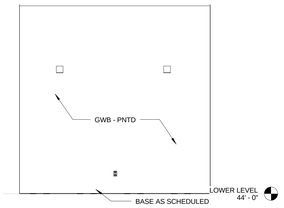
B7 RM 006 - RECYCLING STOR ROOM EAST
1/4" = 1'-0"



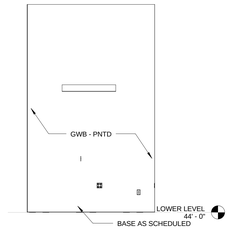
B9 RM 006 - RECYCLING STOR ROOM NORTH
1/4" = 1'-0"



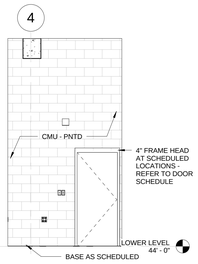
B11 RM 006 - RECYCLING STOR ROOM SOUTH
1/4" = 1'-0"



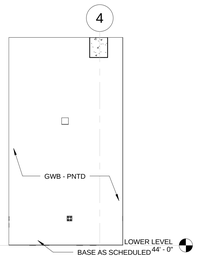
B13 RM 006 - RECYCLING STOR ROOM WEST
1/4" = 1'-0"



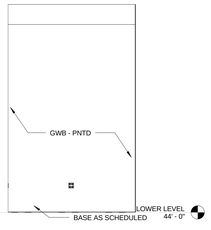
D1 RM 008 - CONTROL ROOM EAST
1/4" = 1'-0"



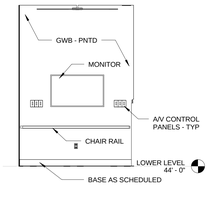
D2 RM 008 - CONTROL ROOM NORTH
1/4" = 1'-0"



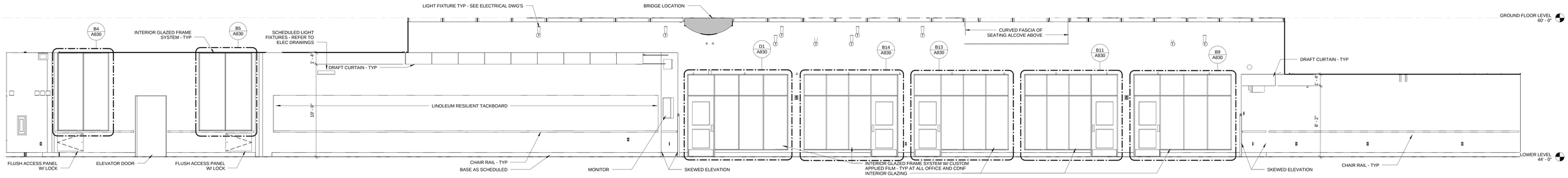
D4 RM 008 - CONTROL ROOM SOUTH
1/4" = 1'-0"



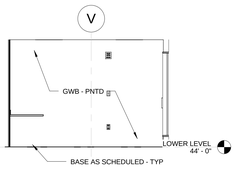
D5 RM 008 - CONTROL ROOM WEST
1/4" = 1'-0"



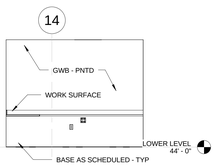
D6 RM 026 - CORRIDOR SEATING SOUTH
1/4" = 1'-0"



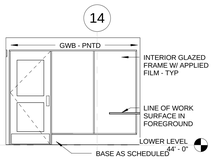
G1 ATRIUM CORRIDOR 026 / 030 / 048
1/4" = 1'-0"



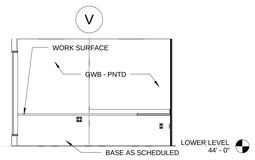
H1 RM 040 - TECHNICAL STAFF EAST
1/4" = 1'-0"



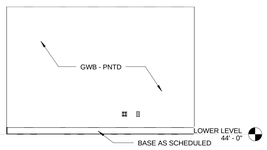
H2 RM 040 - TECHNICAL STAFF NORTH
1/4" = 1'-0"



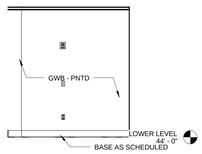
H4 RM 040 - TECHNICAL STAFF SOUTH
1/4" = 1'-0"



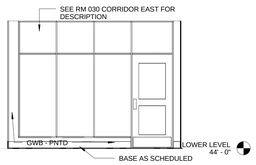
H5 RM 040 - TECHNICAL STAFF WEST
1/4" = 1'-0"



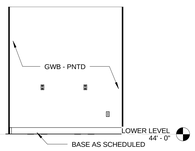
H7 RM 043 - TECHNICAL STAFF - EAST
1/4" = 1'-0"



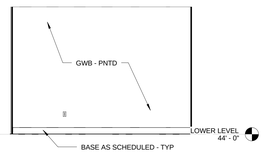
H9 RM 043 - TECHNICAL STAFF - NORTH
1/4" = 1'-0"



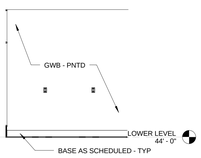
H10 RM 043 - TECHNICAL STAFF - WEST
1/4" = 1'-0"



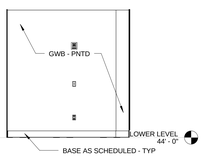
H12 RM 043 - TECHNICAL STAFF - SOUTH
1/4" = 1'-0"



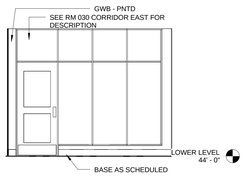
H13 RM 045 - FTE FACULTY - EAST
1/4" = 1'-0"



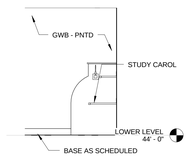
K1 RM 045 - FTE FACULTY - NORTH
1/4" = 1'-0"



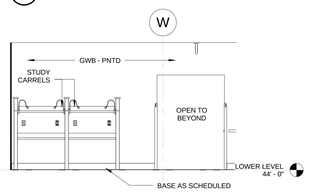
K2 RM 045 - FTE FACULTY - SOUTH
1/4" = 1'-0"



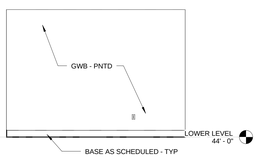
K4 RM 045 - FTE FACULTY - WEST
1/4" = 1'-0"



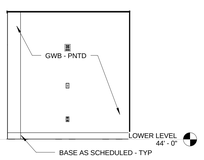
K5 RM 046 - GRADUATE STUDENTS SOUTH
1/4" = 1'-0"



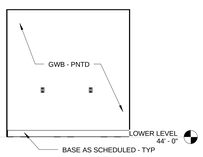
K7 RM 046 - GRADUATE STUDENTS WEST
1/4" = 1'-0"



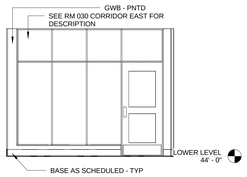
K9 RM 047 - FTE FACULTY - EAST
1/4" = 1'-0"



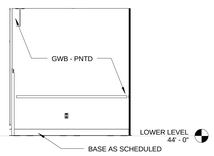
K11 RM 047 - FTE FACULTY - NORTH
1/4" = 1'-0"



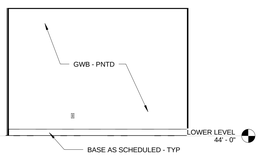
K12 RM 047 - FTE FACULTY - SOUTH
1/4" = 1'-0"



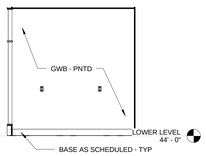
K13 RM 047 - FTE FACULTY - WEST
1/4" = 1'-0"



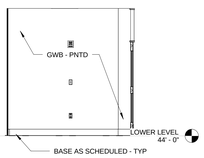
L1 RM 048 - LOUNGE NORTH
1/4" = 1'-0"



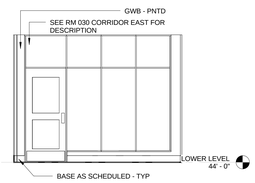
L2 RM 049 - FTE FACULTY - EAST
1/4" = 1'-0"



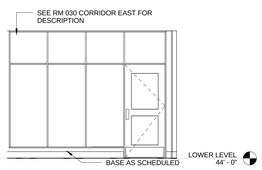
L4 RM 049 - FTE FACULTY - NORTH
1/4" = 1'-0"



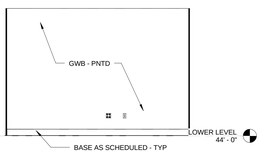
L5 RM 049 - FTE FACULTY - SOUTH
1/4" = 1'-0"



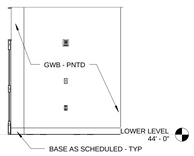
L7 RM 049 - FTE FACULTY - WEST
1/4" = 1'-0"



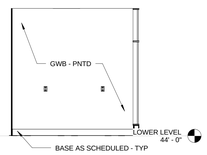
L9 RM 051 - FTE FACULTY - WEST
1/4" = 1'-0"



L10 RM 051 - FTE FACULTY EAST
1/4" = 1'-0"



L12 RM 051 - FTE FACULTY NORTH
1/4" = 1'-0"



L13 RM 051 - FTE FACULTY SOUTH
1/4" = 1'-0"

drawing title
INTERIOR ELEVATIONS – LOWER LEVEL

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

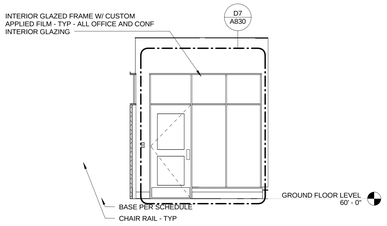
DRAWING
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

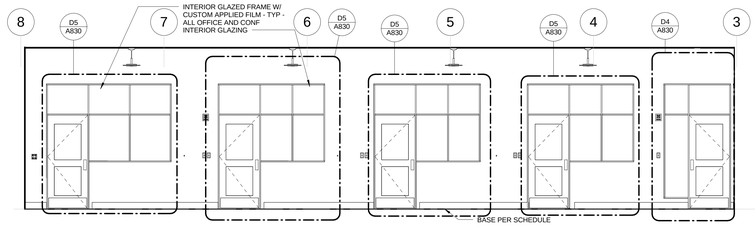
CAD file: 1393
project no.: BI-RS-283

volume: 1 of 2
date: 11-21-2012
scale: 1/4" = 1'-0"
drawn by: BGA
approved by: RM/JBR
drawing no.: A706

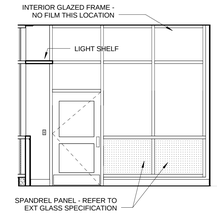
Clifford Lloyd Hall 79 SCSU New Academic and Laboratory Building 411 Comets_Graphics 11/21/2012 12:24:31 PM



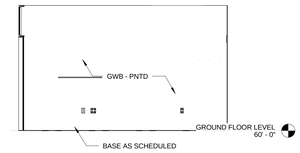
B1 RM 108 - OFFICE WAITING AREA - EAST ELEVATION
1/4" = 1'-0"



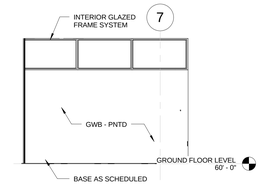
B4 RM 108 - OFFICE WAITING AREA - NORTH ELEVATION
1/4" = 1'-0"



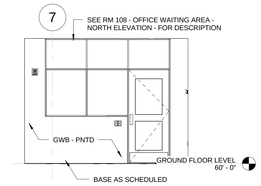
B8 RM 108 - OFFICE WAITING AREA - WEST ELEVATION
1/4" = 1'-0"



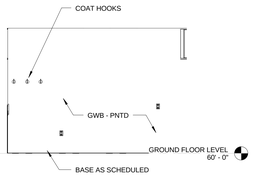
B10 RM 108A - DEPARTMENT CHAIR EAST
1/4" = 1'-0"



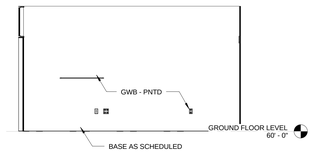
B12 RM 108A - DEPARTMENT CHAIR NORTH
1/4" = 1'-0"



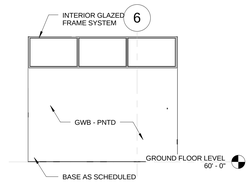
B14 RM 108A - DEPARTMENT CHAIR SOUTH
1/4" = 1'-0"



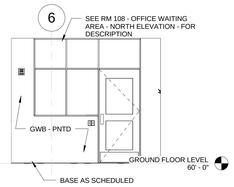
D1 RM 108A - DEPARTMENT CHAIR WEST
1/4" = 1'-0"



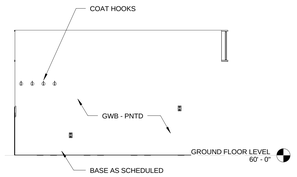
D2 RM 108B - DEPARTMENT CHAIR EAST
1/4" = 1'-0"



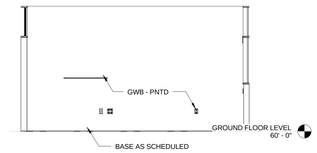
D5 RM 108B - DEPARTMENT CHAIR NORTH
1/4" = 1'-0"



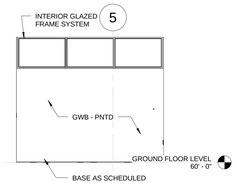
D6 RM 108B - DEPARTMENT CHAIR SOUTH
1/4" = 1'-0"



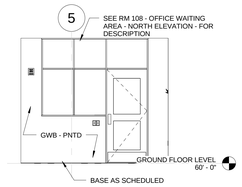
D8 RM 108B - DEPARTMENT CHAIR WEST
1/4" = 1'-0"



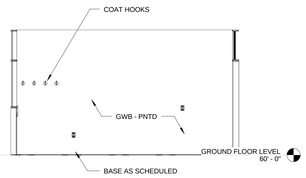
D10 RM 108C - DEPARTMENT CHAIR EAST
1/4" = 1'-0"



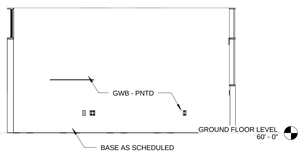
D12 RM 108C - DEPARTMENT CHAIR NORTH
1/4" = 1'-0"



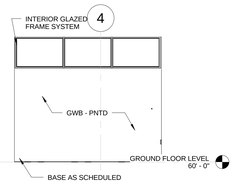
D14 RM 108C - DEPARTMENT CHAIR SOUTH
1/4" = 1'-0"



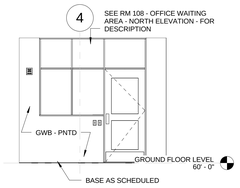
E1 RM 108C - DEPARTMENT CHAIR WEST
1/4" = 1'-0"



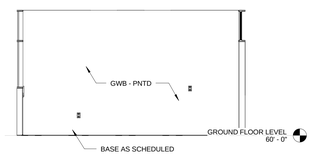
E3 RM 108D - OFFICE EAST
1/4" = 1'-0"



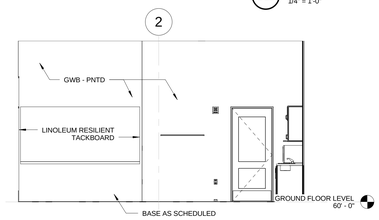
E5 RM 108D - OFFICE NORTH
1/4" = 1'-0"



E7 RM 108D - OFFICE SOUTH
1/4" = 1'-0"

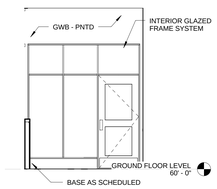


E8 RM 108D - OFFICE WEST
1/4" = 1'-0"

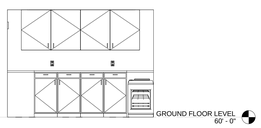


E11 RM 108F - BREAK ROOM NORTH
1/4" = 1'-0"

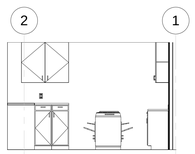
E13 RM 108F - BREAK ROOM EAST
1/4" = 1'-0"



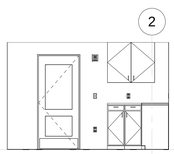
G1 RM 108F - BREAK ROOM WEST
1/4" = 1'-0"



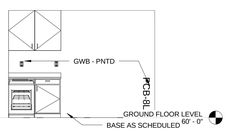
G2 RM 108G - COPY/ STORAGE WEST
1/4" = 1'-0"



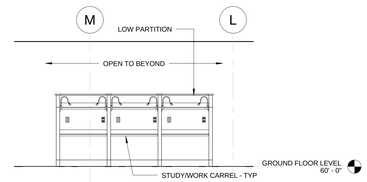
G4 RM 108G - COPY/ STORAGE NORTH
1/4" = 1'-0"



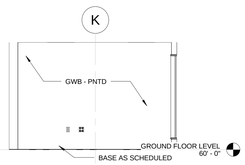
G5 RM 108G - COPY/ STORAGE SOUTH
1/4" = 1'-0"



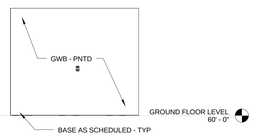
G7 RM 108G - COPY/STORAGE EAST
1/4" = 1'-0"



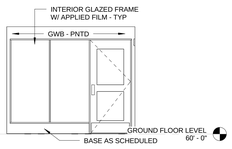
G9 RM 118 - GRADUATE STUDENT WEST
1/4" = 1'-0"



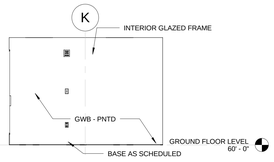
G11 RM 118A - FTE FACULTY EAST
1/4" = 1'-0"



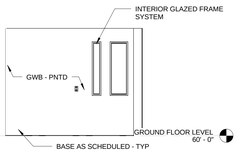
G13 RM 118A - FTE FACULTY NORTH
1/4" = 1'-0"



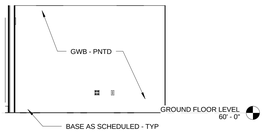
H1 RM 118A - FTE FACULTY SOUTH
1/4" = 1'-0"



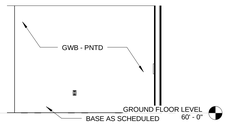
H3 RM 118A - FTE FACULTY WEST
1/4" = 1'-0"



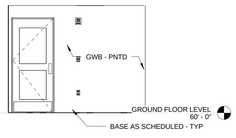
H5 RM 118B - FTE FACULTY EAST
1/4" = 1'-0"



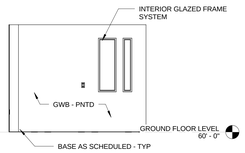
H6 RM 118B - FTE FACULTY NORTH
1/4" = 1'-0"



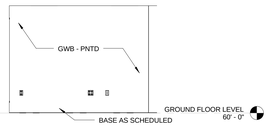
H8 RM 118B - FTE FACULTY SOUTH
1/4" = 1'-0"



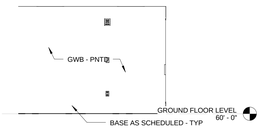
H10 RM 118B - FTE FACULTY WEST
1/4" = 1'-0"



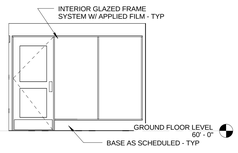
H11 RM 118C - FTE FACULTY EAST
1/4" = 1'-0"



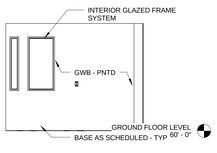
H13 RM 118C - FTE FACULTY NORTH
1/4" = 1'-0"



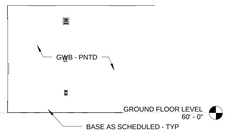
K1 RM 118C - FTE FACULTY SOUTH
1/4" = 1'-0"



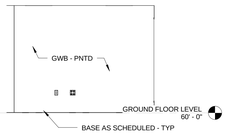
K3 RM 118C - FTE FACULTY WEST
1/4" = 1'-0"



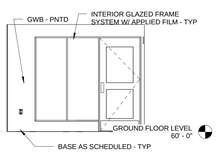
K4 RM 118D - FTE FACULTY EAST
1/4" = 1'-0"



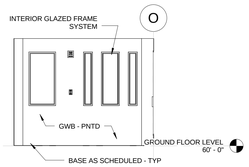
K6 RM 118D - FTE FACULTY NORTH
1/4" = 1'-0"



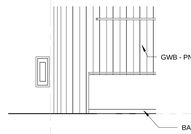
K7 RM 118D - FTE FACULTY SOUTH
1/4" = 1'-0"



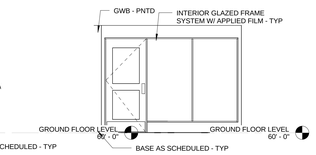
K9 RM 118D - FTE FACULTY WEST
1/4" = 1'-0"



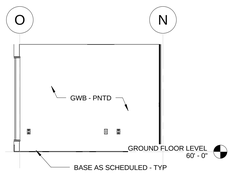
K10 RM 118E - FTE FACULTY EAST
1/4" = 1'-0"



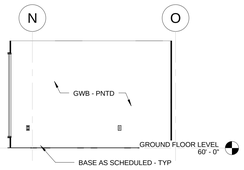
K12 RM 118E - FTE FACULTY NORTH
1/4" = 1'-0"



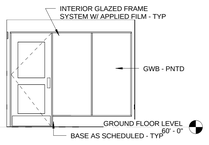
K14 RM 118E - FTE FACULTY SOUTH
1/4" = 1'-0"



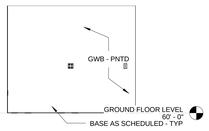
L1 RM 118E - FTE FACULTY WEST
1/4" = 1'-0"



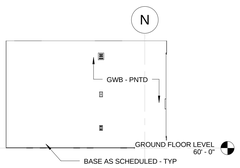
L3 RM 118F - FTE FACULTY EAST
1/4" = 1'-0"



L4 RM 118F - FTE FACULTY NORTH
1/4" = 1'-0"



L6 RM 118F - FTE FACULTY SOUTH
1/4" = 1'-0"



L8 RM 118F - FTE FACULTY WEST
1/4" = 1'-0"

project title
INTERIOR ELEVATIONS – GROUND FLOOR

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

drawing prepared by
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD file: 1393
project no. BI-RS-283

sheet no. of
1 of 2

date
11-21-2012

scale
1/4" = 1'-0"

drawn by
BGA

checked by
RMJBR

drawing no.
A707

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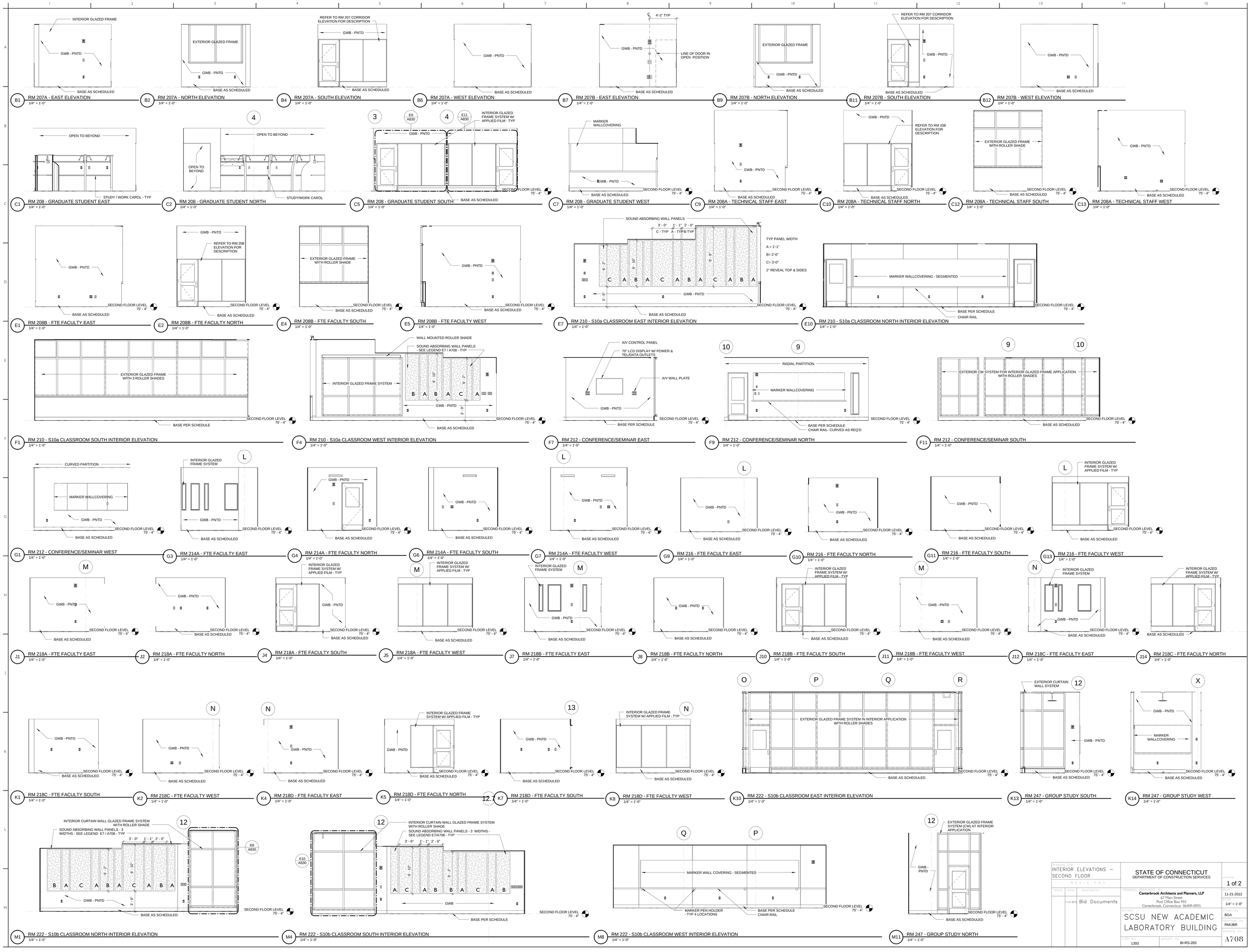
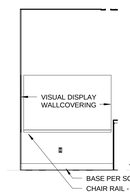
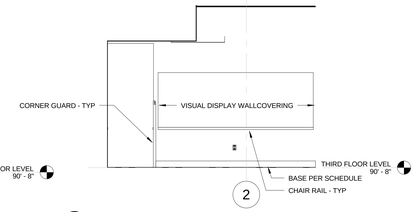
11/21/2012 1:23:07 PM

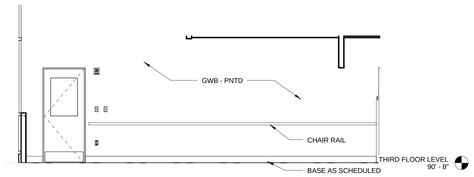

INTERIOR GLAZED FRAME
GWB - PNTD
BASE AS SCHEDULED
B1 RM 207A - EAST ELEVATION 1/4" = 1'-0"
EXTERIOR GLAZED FRAME
B2 RM 207A - NORTH ELEVATION 1/4" = 1'-0"
REFER TO RM 207 CORRIDOR ELEVATION FOR DESCRIPTION
B4 RM 207A - SOUTH ELEVATION 1/4" = 1'-0"
B6 RM 207A - WEST ELEVATION 1/4" = 1'-0"
4'-2" TYP
LINE OF DOOR IN OPEN POSITION
B7 RM 207B - EAST ELEVATION 1/4" = 1'-0"
B9 RM 207B - NORTH ELEVATION 1/4" = 1'-0"
B11 RM 207B - SOUTH ELEVATION 1/4" = 1'-0"
B12 RM 207B - WEST ELEVATION 1/4" = 1'-0"
OPEN TO BEYOND
STUDY / WORK CAROL - TYP
C1 RM 208 - GRADUATE STUDENT EAST 1/4" = 1'-0"
OPEN TO BEYOND
STUDY/WORK CAROL
C2 RM 208 - GRADUATE STUDENT NORTH 1/4" = 1'-0"
E9 A830
E11 A830
INTERIOR GLAZED FRAME SYSTEM W/ APPLIED FILM - TYP
SECOND FLOOR LEVEL 75' - 4"
C5 RM 208 - GRADUATE STUDENT SOUTH 1/4" = 1'-0"
MARKER WALLCOVERING
C7 RM 208 - GRADUATE STUDENT WEST 1/4" = 1'-0"
C9 RM 208A - TECHNICAL STAFF EAST 1/4" = 1'-0"
REFER TO RM 208 ELEVATION FOR DESCRIPTION
C10 RM 208A - TECHNICAL STAFF NORTH 1/4" = 1'-0"
EXTERIOR GLAZED FRAME WITH ROLLER SHADE
C12 RM 208A - TECHNICAL STAFF SOUTH 1/4" = 1'-0"
C13 RM 208A - TECHNICAL STAFF WEST 1/4" = 1'-0"
E1 RM 208B - FTE FACULTY EAST 1/4" = 1'-0"
E2 RM 208B - FTE FACULTY NORTH 1/4" = 1'-0"
E4 RM 208B - FTE FACULTY SOUTH 1/4" = 1'-0"
E5 RM 208B - FTE FACULTY WEST 1/4" = 1'-0"
SOUND ABSORBING WALL PANELS
3' - 0" 1' - 1" 2' - 0"
C - TYP A - TYP B-TYP
TYP PANEL WIDTH
A = 1'-1"
B= 2'-0"
C= 3'-0"
2" REVEAL TOP & SIDES
E7 RM 210 - S10a CLASSROOM EAST INTERIOR ELEVATION 1/4" = 1'-0"
MARKER WALLCOVERING - SEGMENTED
BASE PER SCHEDULE
CHAIR RAIL
E10 RM 210 - S10a CLASSROOM NORTH INTERIOR ELEVATION 1/4" = 1'-0"
EXTERIOR GLAZED FRAME WITH 3 ROLLER SHADES
F1 RM 210 - S10a CLASSROOM SOUTH INTERIOR ELEVATION 1/4" = 1'-0"
WALL MOUNTED ROLLER SHADE
SOUND ABSORBING WALL PANELS - SEE LEGEND E7 / A708 - TYP
INTERIOR GLAZED FRAME SYSTEM
F4 RM 210 - S10a CLASSROOM WEST INTERIOR ELEVATION 1/4" = 1'-0"
A/V CONTROL PANEL
70" LCD DISPLAY W/ POWER & TEL/DATA OUTLETS
A/V WALL PLATE
F7 RM 212 - CONFERENCE/SEMINAR EAST 1/4" = 1'-0"
RADIAL PARTITION
F9 RM 212 - CONFERENCE/SEMINAR NORTH 1/4" = 1'-0"
EXTERIOR CW SYSTEM FOR INTERIOR GLAZED FRAME APPLICATION WITH ROLLER SHADES
F11 RM 212 - CONFERENCE/SEMINAR SOUTH 1/4" = 1'-0"
CURVED PARTITION
MARKER WALLCOVERING
G1 RM 212 - CONFERENCE/SEMINAR WEST 1/4" = 1'-0"
G3 RM 214A - FTE FACULTY EAST 1/4" = 1'-0"
G4 RM 214A - FTE FACULTY NORTH 1/4" = 1'-0"
G6 RM 214A - FTE FACULTY SOUTH 1/4" = 1'-0"
G7 RM 214A - FTE FACULTY WEST 1/4" = 1'-0"
G9 RM 216 - FTE FACULTY EAST 1/4" = 1'-0"
G10 RM 216 - FTE FACULTY NORTH 1/4" = 1'-0"
G11 RM 216 - FTE FACULTY SOUTH 1/4" = 1'-0"
G13 RM 216 - FTE FACULTY WEST 1/4" = 1'-0"
J1 RM 218A - FTE FACULTY EAST 1/4" = 1'-0"
J2 RM 218A - FTE FACULTY NORTH 1/4" = 1'-0"
J4 RM 218A - FTE FACULTY SOUTH 1/4" = 1'-0"
J5 RM 218A - FTE FACULTY WEST 1/4" = 1'-0"
J7 RM 218B - FTE FACULTY EAST 1/4" = 1'-0"
J8 RM 218B - FTE FACULTY NORTH 1/4" = 1'-0"
J10 RM 218B - FTE FACULTY SOUTH 1/4" = 1'-0"
J11 RM 218B - FTE FACULTY WEST 1/4" = 1'-0"
J12 RM 218C - FTE FACULTY EAST 1/4" = 1'-0"
J14 RM 218C - FTE FACULTY NORTH 1/4" = 1'-0"
K1 RM 218C - FTE FACULTY SOUTH 1/4" = 1'-0"
K2 RM 218C - FTE FACULTY WEST 1/4" = 1'-0"
K4 RM 218D - FTE FACULTY EAST 1/4" = 1'-0"
K5 RM 218D - FTE FACULTY NORTH 1/4" = 1'-0"
K7 RM 218D - FTE FACULTY SOUTH 1/4" = 1'-0"
K8 RM 218D - FTE FACULTY WEST 1/4" = 1'-0"
EXTERIOR GLAZED FRAME SYSTEM IN INTERIOR APPLICATION WITH ROLLER SHADES
K10 RM 222 - S10b CLASSROOM EAST INTERIOR ELEVATION 1/4" = 1'-0"
EXTERIOR CURTAIN WALL SYSTEM
K13 RM 247 - GROUP STUDY SOUTH 1/4" = 1'-0"
K14 RM 247 - GROUP STUDY WEST 1/4" = 1'-0"
INTERIOR CURTAIN WALL GLAZED FRAME SYSTEM WITH ROLLER SHADE
SOUND ABSORBING WALL PANELS - 3 WIDTHS - SEE LEGEND E7 / A708 - TYP
K8 A830
M1 RM 222 - S10b CLASSROOM NORTH INTERIOR ELEVATION 1/4" = 1'-0"
K10 A830
SOUND ABSORBING WALL PANELS - 3 WIDTHS - SEE LEGEND E7/A708 - TYP
M4 RM 222 - S10b CLASSROOM SOUTH INTERIOR ELEVATION 1/4" = 1'-0"
MARKER WALL COVERING - SEGMENTED
MARKER PEN HOLDER - TYP 4 LOCATIONS
M8 RM 222 - S10b CLASSROOM WEST INTERIOR ELEVATION 1/4" = 1'-0"
EXTERIOR GLAZED FRAME SYSTEM (CW) AT INTERIOR APPLICATION
M11 RM 247 - GROUP STUDY NORTH 1/4" = 1'-0"
drawing title
INTERIOR ELEVATIONS – SECOND FLOOR
REVISIONS
mark date description
11-2-2012 Bid Documents
STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955
project
SCSU NEW ACADEMIC LABORATORY BUILDING
CAD file 1393
project no. BI-RS-283
sheet 1 of 2
date 11-21-2012
scale 1/4" = 1'-0"
drawn by BGA
approved by RM/JBR
drawing no. A708



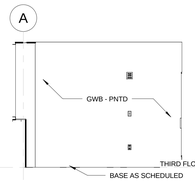
B1 RM 308 - GROUP STUDY EAST
1/4" = 1'-0"



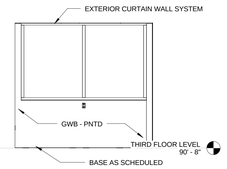
B2 RM 308 - GROUP STUDY NORTH
1/4" = 1'-0"



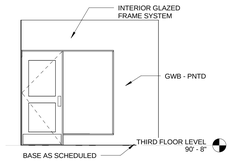
B4 RM 308 - GROUP STUDY WEST
1/4" = 1'-0"



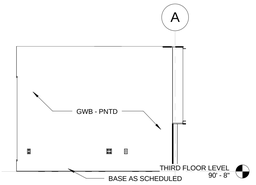
B7 RM 311B - FTE FACULTY EAST
1/4" = 1'-0"



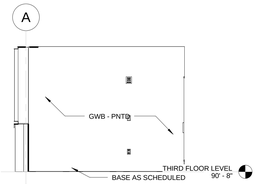
B9 RM 311B - FTE FACULTY NORTH
1/4" = 1'-0"



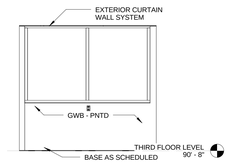
B11 RM 311B - FTE FACULTY SOUTH
1/4" = 1'-0"



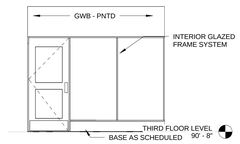
B12 RM 311B - FTE FACULTY WEST
1/4" = 1'-0"



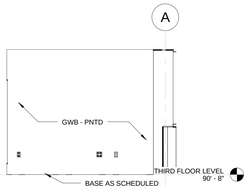
B14 RM 311C - FTE FACULTY EAST
1/4" = 1'-0"



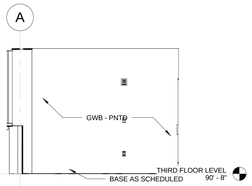
C1 RM 311C - FTE FACULTY NORTH
1/4" = 1'-0"



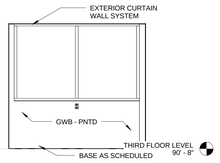
C2 RM 311C - FTE FACULTY SOUTH
1/4" = 1'-0"



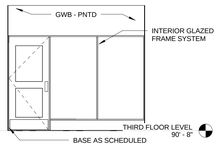
C4 RM 311C - FTE FACULTY WEST
1/4" = 1'-0"



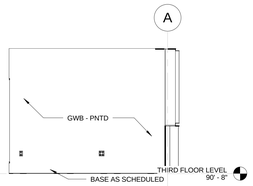
C6 RM 311D - FTE FACULTY EAST
1/4" = 1'-0"



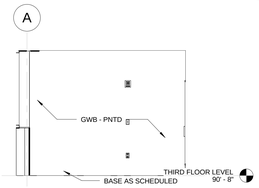
C7 RM 311D - FTE FACULTY NORTH
1/4" = 1'-0"



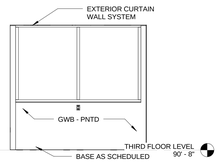
C9 RM 311D - FTE FACULTY SOUTH
1/4" = 1'-0"



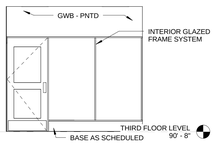
C10 RM 311D - FTE FACULTY WEST
1/4" = 1'-0"



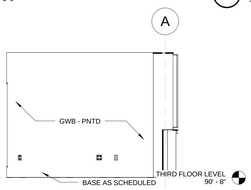
C12 RM 311E - FTE FACULTY
1/4" = 1'-0"



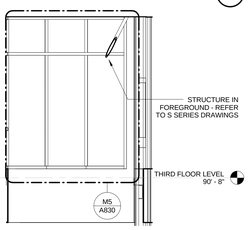
C14 RM 311E - FTE FACULTY NORTH
1/4" = 1'-0"



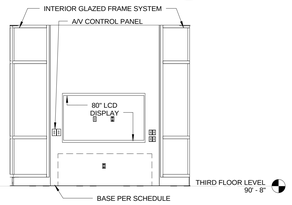
E1 RM 311E - FTE FACULTY SOUTH
1/4" = 1'-0"



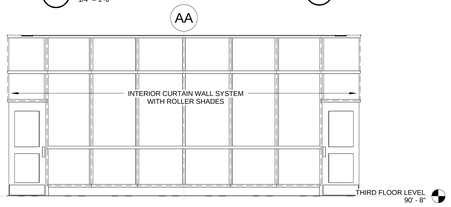
E2 RM 311E - FTE FACULTY WEST
1/4" = 1'-0"



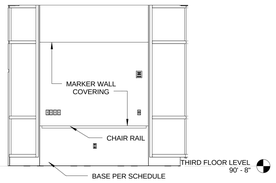
E4 RM 317B - KNUCKLE LIGHTWELL- SOUTH ELEVATION
1/4" = 1'-0"



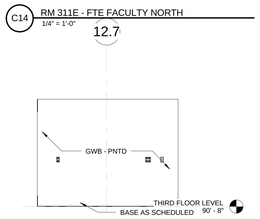
E6 RM 319 - CONFERENCE NORTHEAST
1/4" = 1'-0"



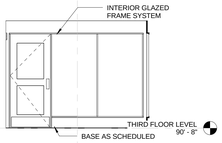
E8 RM 319 - CONFERENCE SOUTHEAST
1/4" = 1'-0"



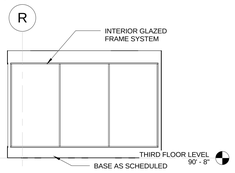
E11 RM 319 - CONFERENCE SOUTHWEST
1/4" = 1'-0"



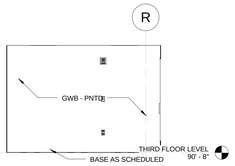
E14 RM 340A - TECHNICAL STAFF NORTH
1/4" = 1'-0"



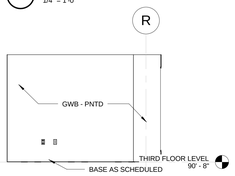
F1 RM 340A - TECHNICAL STAFF SOUTH
1/4" = 1'-0"



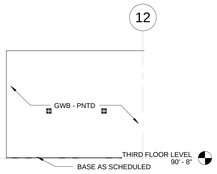
F3 RM 340A - TECHNICAL STAFF WEST
1/4" = 1'-0"



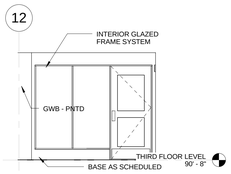
F4 RM 340A - TECHNICAL STAFF EAST
1/4" = 1'-0"



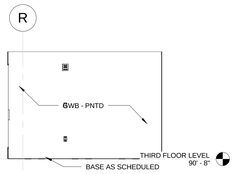
F6 RM 340B - FTE FACULTY EAST
1/4" = 1'-0"



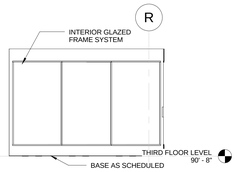
F7 RM 340B - FTE FACULTY NORTH
1/4" = 1'-0"



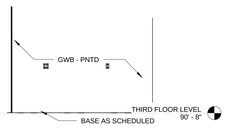
F9 RM 340B - FTE FACULTY SOUTH
1/4" = 1'-0"



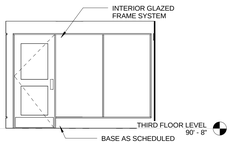
F10 RM 340B - FTE FACULTY WEST
1/4" = 1'-0"



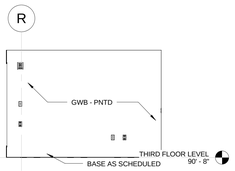
F12 RM 340C - FTE FACULTY EAST
1/4" = 1'-0"



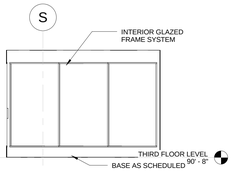
F14 RM 340C - FTE FACULTY NORTH
1/4" = 1'-0"



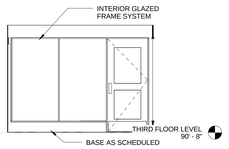
H1 RM 340C - FTE FACULTY SOUTH
1/4" = 1'-0"



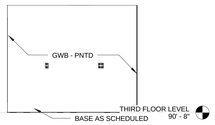
H3 RM 340C - FTE FACULTY WEST
1/4" = 1'-0"



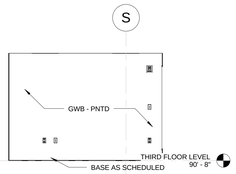
H4 RM 340D - FTE FACULTY EAST
1/4" = 1'-0"



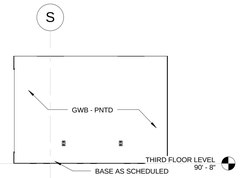
H6 RM 340D - FTE FACULTY NORTH
1/4" = 1'-0"



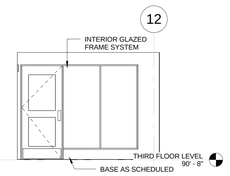
H7 RM 340D - FTE FACULTY SOUTH
1/4" = 1'-0"



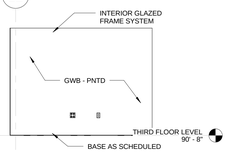
H9 RM 340D - FTE FACULTY WEST
1/4" = 1'-0"



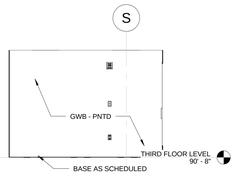
H10 RM 340E - FTE FACULTY EAST
1/4" = 1'-0"



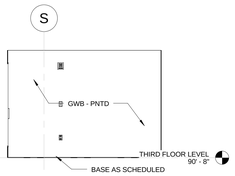
H12 RM 340E - FTE FACULTY NORTH
1/4" = 1'-0"



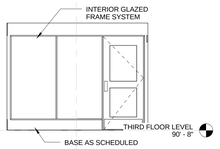
H14 RM 340E - FTE FACULTY SOUTH
1/4" = 1'-0"



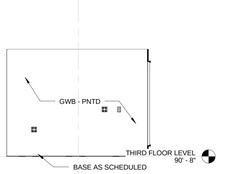
J1 RM 340E - FTE FACULTY WEST
1/4" = 1'-0"



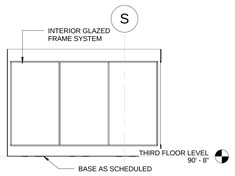
J3 RM 340F - FTE FACULTY EAST
1/4" = 1'-0"



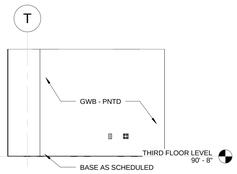
J4 RM 340F - FTE FACULTY NORTH
1/4" = 1'-0"



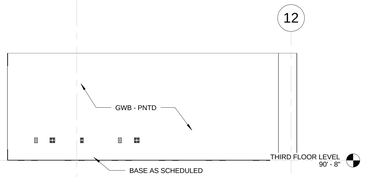
J6 RM 340F - FTE FACULTY SOUTH
1/4" = 1'-0"



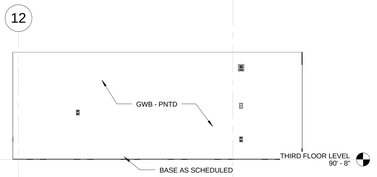
J7 RM 340F - FTE FACULTY WEST
1/4" = 1'-0"



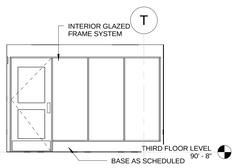
J9 RM 342 - FTE FACULTY EAST
1/4" = 1'-0"



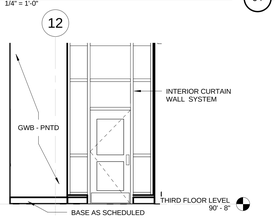
J11 RM 342 - FTE FACULTY NORTH
1/4" = 1'-0"



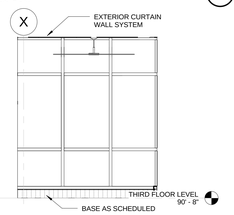
J12 RM 342 - FTE FACULTY SOUTH
1/4" = 1'-0"



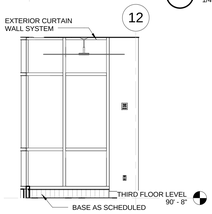
L1 RM 342 - FTE FACULTY WEST
1/4" = 1'-0"



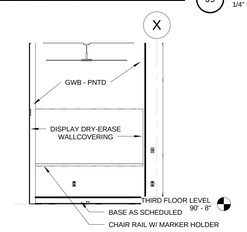
L3 RM 349 - GROUP STUDY NORTH
1/4" = 1'-0"



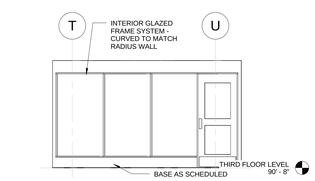
L4 RM 349 - GROUP STUDY EAST
1/4" = 1'-0"



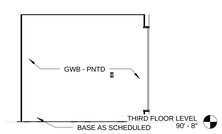
L6 RM 349 - GROUP STUDY SOUTH
1/4" = 1'-0"



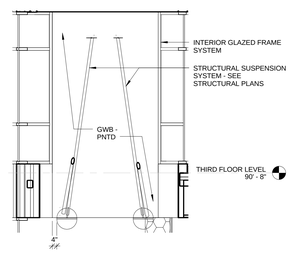
L8 RM 349 - GROUP STUDY WEST
1/4" = 1'-0"



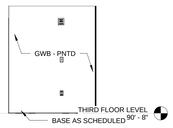
L9 RM 352 - FTE FACULTY EAST
1/4" = 1'-0"



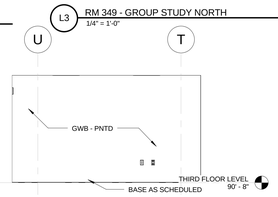
L11 RM 352 - FTE FACULTY NORTH
1/4" = 1'-0"



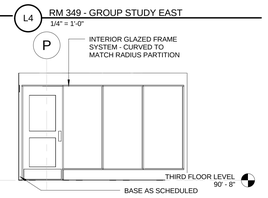
L14 CORRIDOR N. WING - 317B - KNUCKLE LIGHTWELL
1/4" = 1'-0"



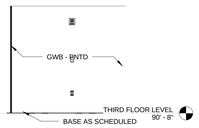
M1 RM 352 - FTE FACULTY SOUTH
1/4" = 1'-0"



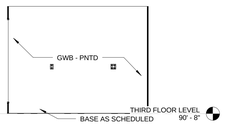
M3 RM 352 - FTE FACULTY WEST
1/4" = 1'-0"



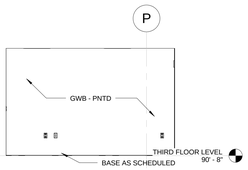
M5 RM 356 - FTE FACULTY EAST
1/4" = 1'-0"



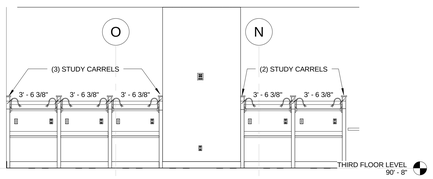
M7 RM 356 - FTE FACULTY NORTH
1/4" = 1'-0"



M9 RM 356 - FTE FACULTY SOUTH
1/4" = 1'-0"



M11 RM 356 - FTE FACULTY WEST
1/4" = 1'-0"



M12 RM-358 GRADUATE STUDENTS - WEST ELEVATION
1/4" = 1'-0"

project
INTERIOR ELEVATIONS – THIRD FLOOR

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

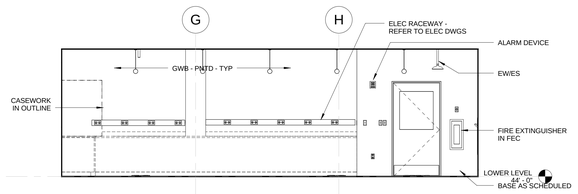
DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

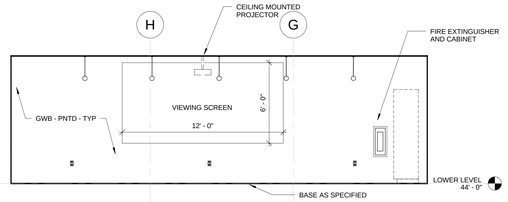
CAD no. 1393
project no. BI-RS-283

sheet no. 1 of 2
date 11-21-2012
scale 1/4" = 1'-0"
drawn by BGA
checked by RMUBR
drawing no. A709

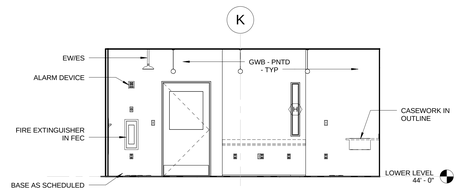
Collins Local Field | P51 5250 | New Academic and Laboratory Building #12 Catering_Graphics1 1/21/2012 1:23:11 PM



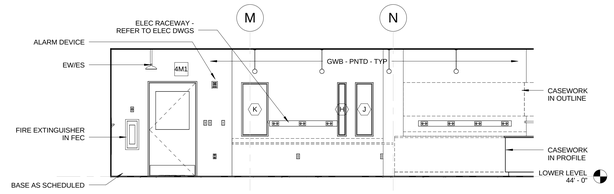
B1 RM-013-P08 NANOTECHNOLOGY EAST INTERIOR ELEVATION
1/4" = 1'-0"



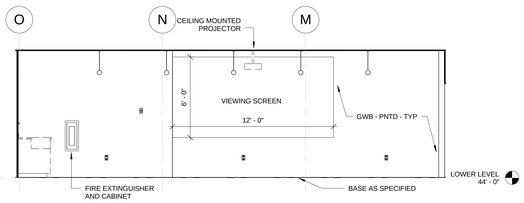
B5 RM-013-P08 NANOTECHNOLOGY WEST INTERIOR ELEVATION
1/4" = 1'-0"



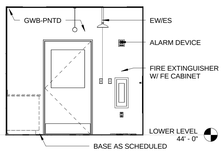
B8 RM-015-P08-1 PROJECT STORAGE PREP EAST INTERIOR ELEVATION
1/4" = 1'-0"



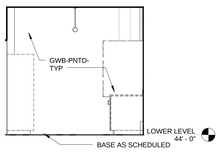
B11 RM-019-P14 MULTIPURPOSE SUPPORT EAST INTERIOR ELEVATION
1/4" = 1'-0"



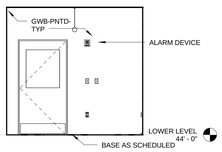
D1 RM-019-P14 MULTIPURPOSE SUPPORT WEST INTERIOR ELEVATION
1/4" = 1'-0"



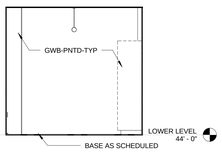
D5 RM-027-P15 NTC SPECIMEN PREP EAST INTERIOR ELEVATION
1/4" = 1'-0"



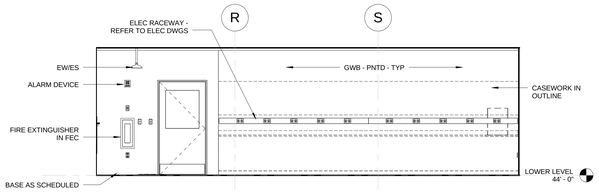
D7 RM-027-P15 NTC SPECIMEN PREP WEST INTERIOR ELEVATION
1/4" = 1'-0"



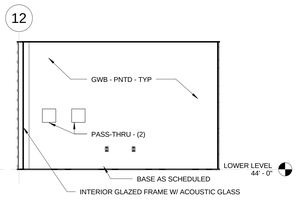
D9 RM-029-P11 NTC MICROTOMY EAST INTERIOR ELEVATION
1/4" = 1'-0"



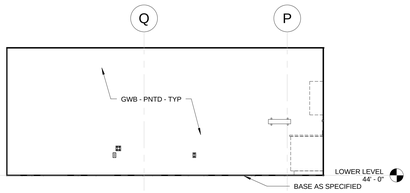
D11 RM-029-P11 NTC MICROTOMY WEST INTERIOR ELEVATION
1/4" = 1'-0"



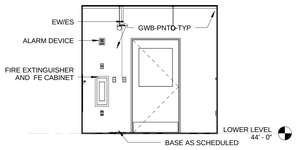
F1 RM-031-P03 MATERIALS SCIENCE EAST INTERIOR ELEVATION
1/4" = 1'-0"



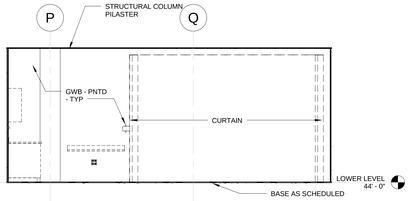
F5 RM-032-P12 NTC SEM SOUTH INTERIOR ELEVATION
1/4" = 1'-0"



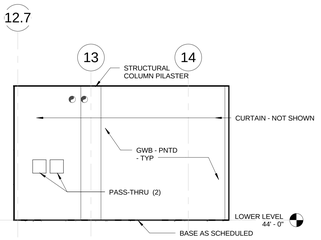
F7 RM-032-P12 NTC SEM WEST INTERIOR ELEVATION
1/4" = 1'-0"



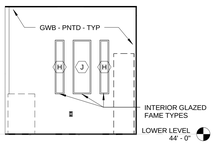
F10 RM-033-P17 SHARED PREP EAST INTERIOR ELEVATION
1/4" = 1'-0"



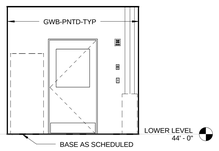
F12 RM-034-P13 NTC TEM EAST INTERIOR ELEVATION
1/4" = 1'-0"



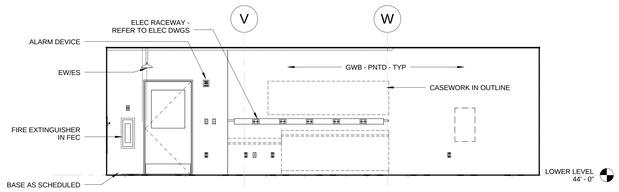
H1 RM-034-P13 NTC TEM SOUTH INTERIOR ELEVATION
1/4" = 1'-0"



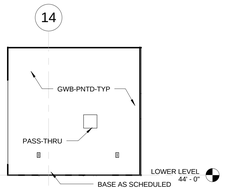
H4 RM-036-P16 NTC UTILITY EAST INTERIOR ELEVATION
1/4" = 1'-0"



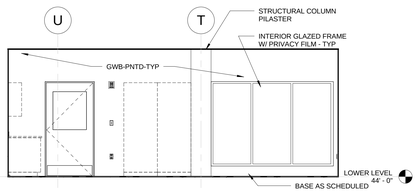
H6 RM-036-P16 NTC UTILITY WEST INTERIOR ELEVATION
1/4" = 1'-0"



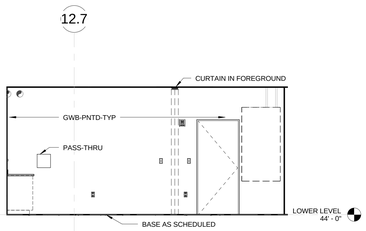
H8 RM-037-P01 HIGH RESOLUTION OPTICS EAST INTERIOR ELEVATION
1/4" = 1'-0"



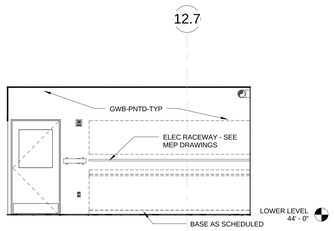
H11 RM-038-P10 NTC AFM/FIB INSTRUMENT NORTH INTERIOR ELEVATION
1/4" = 1'-0"



K1 RM-038-P10 NTC AFM/FIB INSTRUMENT WEST INTERIOR ELEVATION
1/4" = 1'-0"



K5 RM-042-P04 NANOMATERIALS NORTH INTERIOR ELEVATION
1/4" = 1'-0"



K7 RM-042-P04 NANOMATERIALS PARTIAL SOUTH INTERIOR ELEVATION
1/4" = 1'-0"

title: LABORATORY ELEVATIONS – LOWER LEVEL

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

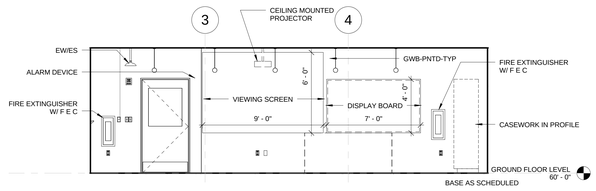
DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

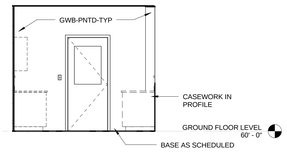
CAD no. 1393
project no. BI-RS-283

sheet 1 of 2
date 11-21-2012
scale 1/4" = 1'-0"
drawn by EL/BGA
checked by RMUBR
drawing no. A710

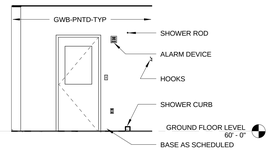
Collect Local Files | P9 | SCSU New Academic and Laboratory Building | 4-17 Centre_Graphics1 1/21/2012 12:32:08 PM



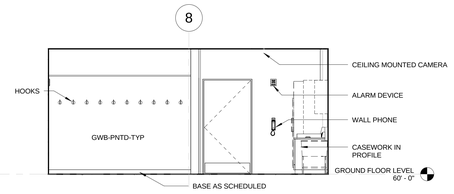
B1 RM-103-V03 COASTAL & MARINE STUDIES SOUTH INTERIOR ELEVATION
1/4" = 1'-0"



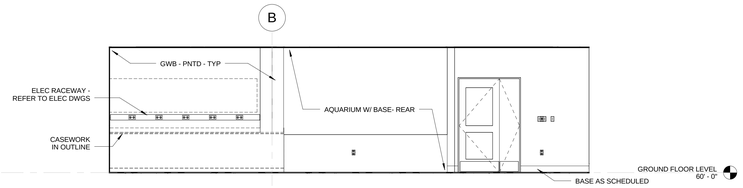
B5 RM-103A-V04 COASTAL & MARINE STUDIES PREP WEST INTERIOR ELEVATION
1/4" = 1'-0"



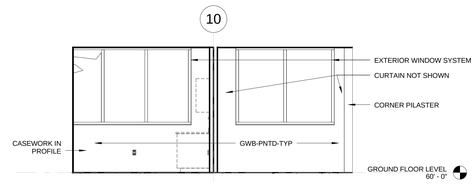
B7 RM-109-S01 WET LAB/MUD ROOM PARTIAL EAST INTERIOR ELEVATION
1/4" = 1'-0"



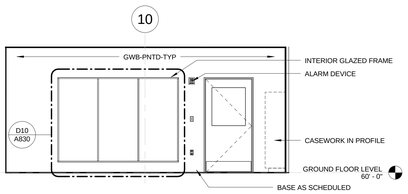
B10 RM-109-S01 WET LAB/MUD ROOM SOUTH INTERIOR ELEVATION
1/4" = 1'-0"



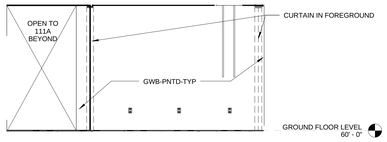
D1 RM-111-V06 SALTWATER AQUARIUM EAST INTERIOR ELEVATION
1/4" = 1'-0"



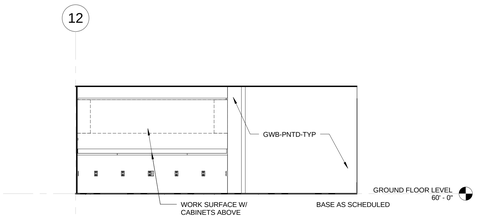
D6 RM-111A/B-V07 PHYTOPLANKTON - V08 AQUARIUM STORAGE NORTH INTERIOR ELEVATION
1/4" = 1'-0"



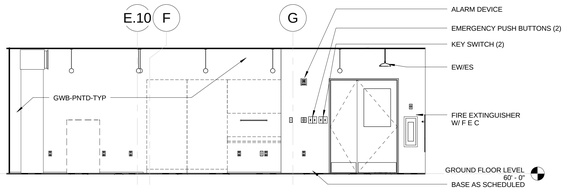
D9 RM-111A/B-V08 AQUARIUM STORAGE SOUTH INTERIOR ELEVATION
1/4" = 1'-0"



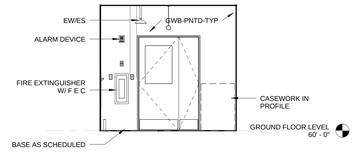
D12 RM-111B-V07 PHYTOPLANKTON WEST INTERIOR ELEVATION
1/4" = 1'-0"



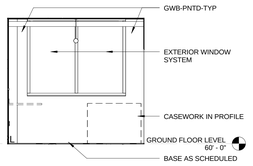
F1 RM-116-E11 ROACK SAMPLE STORAGE SOUTH INTERIOR ELEVATION
1/4" = 1'-0"



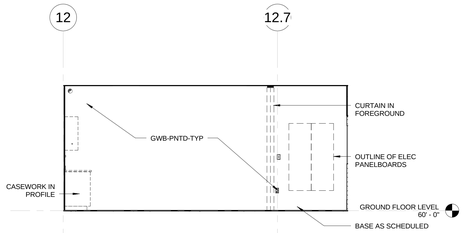
F4 RM-119-E15 ROCK SAMPLE PREP DIRTY-WET EAST INTERIOR ELEVATION
1/4" = 1'-0"



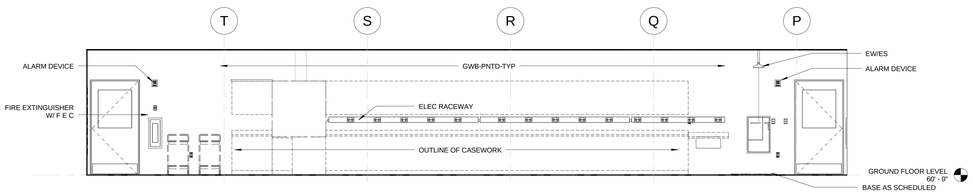
F8 RM-123-E16 ROCK SAMPLE PREP DIRTY-DRY EAST INTERIOR ELEVATION
1/4" = 1'-0"



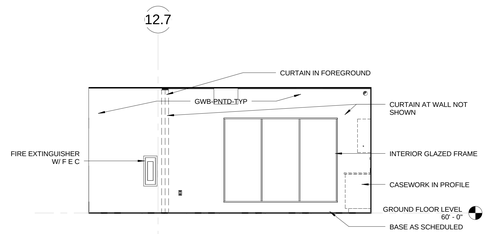
F11 RM-123-E16 ROCK SAMPLE PREP DIRTY-DRY WEST INTERIOR ELEVATION
1/4" = 1'-0"



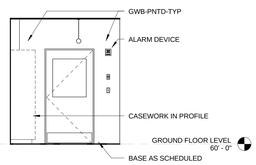
F13 RM-124-P09 OPTICS LABORATORY SOUTH INTERIOR ELEVATION
1/4" = 1'-0"



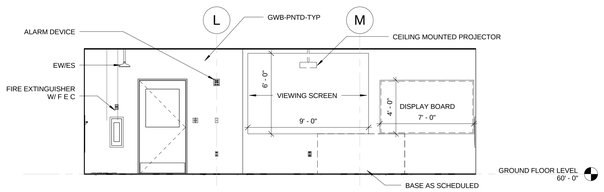
H1 RM-124-P09 OPTICS LABORATORY WEST INTERIOR ELEVATION
1/4" = 1'-0"



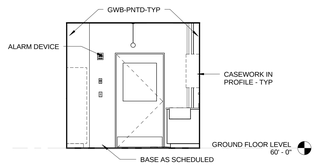
H7 RM-124-RM-P09 OPTICS LABORATORY NORTH INTERIOR ELEVATION
1/4" = 1'-0"



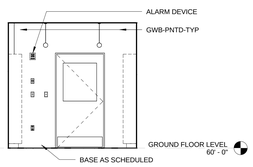
H11 RM-125-E14 HISTORICAL, SOFT ROCK GEOLOGY EAST INTERIOR ELEVATION
1/4" = 1'-0"



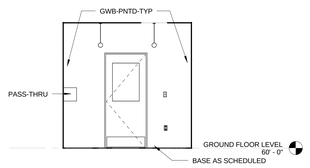
K1 RM-127-E05 HISTORICAL, SOFT ROCK GEOLOGY EAST INTERIOR ELEVATION
1/4" = 1'-0"



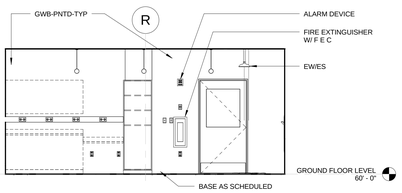
K5 RM-131-P07 ASTRONOMICAL INSTRUMENT EAST INTERIOR ELEVATION
1/4" = 1'-0"



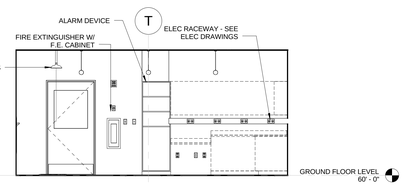
K7 RM-133-P07-1 ASTRONOMICAL INSTRUMENT EAST INTERIOR ELEVATION
1/4" = 1'-0"



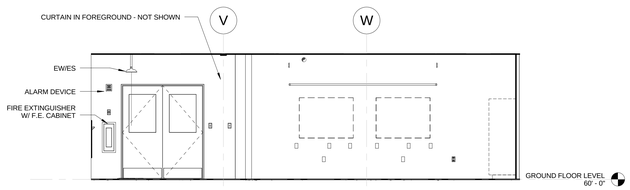
K10 RM-133-P07-1 ASTRONOMICAL INSTRUMENT WEST INTERIOR ELEVATION
1/4" = 1'-0"



K12 RM-135-P02 SYNTHESIS & ELECTRICAL EAST INTERIOR ELEVATION
1/4" = 1'-0"



M1 RM-139-P06 GENERIC RESEARCH EAST INTERIOR ELEVATION
1/4" = 1'-0"



M4 RM-141-P05 PHOTONICS EAST INTERIOR ELEVATION
1/4" = 1'-0"

title: LABORATORY ELEVATIONS – GROUND LEVEL

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

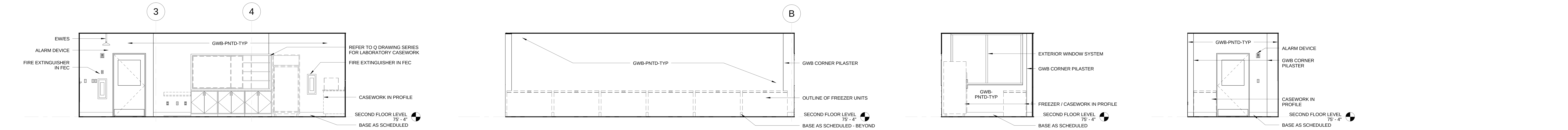
DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393 | project no. BI-RS-283

sheet: 1 of 2
date: 11-21-2012
scale: 1/4" = 1'-0"
drawn by: EL/BGA
checked by: RMJ/BR
drawing no. A711

Collins Lock Hall / P9 SQ / New Academic and Laboratory Building & F2 Centre_Graphics1 1/21/2012 12:33:13 PM

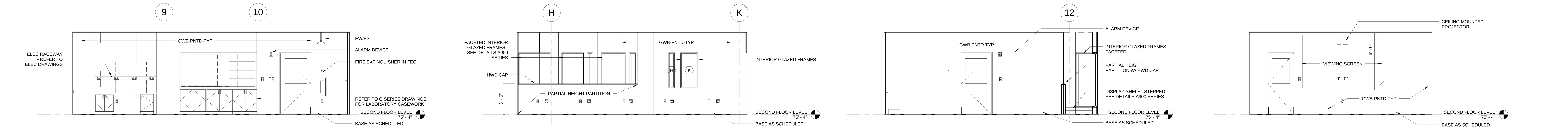


B1 RM-203-V02 GENERIC RESEARCH SOUTH INTERIOR ELEVATION
1/4" = 1'-0"

B5 RM-209-V09 FREEZERS EAST INTERIOR ELEVATION
1/4" = 1'-0"

B9 RM-209-V09 FREEZERS NORTH INTERIOR ELEVATION
1/4" = 1'-0"

B11 RM-209-V09 FREEZERS SOUTH INTERIOR ELEVATION
1/4" = 1'-0"

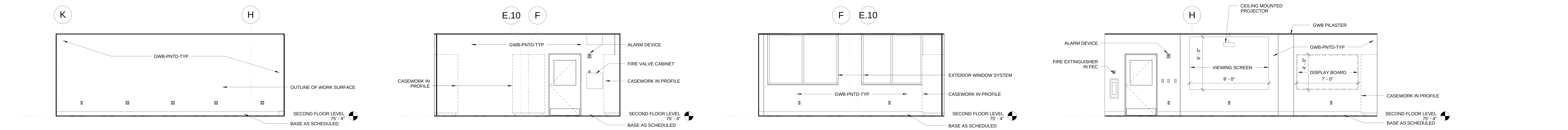


D1 RM-211-V01 COASTAL & MARINE STUDIES SOUTH INTERIOR ELEVATION
1/4" = 1'-0"

D5 RM-214-S02 COMPUTER LAB EAST INTERIOR ELEVATION
1/4" = 1'-0"

D9 RM-214-S02 COMPUTER LAB NORTH INTERIOR ELEVATION
1/4" = 1'-0"

D12 RM-214-S02 COMPUTER LAB SOUTH INTERIOR ELEVATION
1/4" = 1'-0"

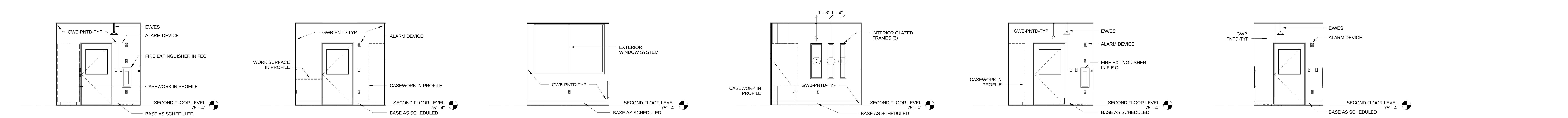


E1 RM-214-S02 COMPUTER LAB WEST INTERIOR ELEVATION
1/4" = 1'-0"

E4 RM-219-E12 MINERALOGY SAMPLE STORAGE EAST INTERIOR ELEVATION
1/4" = 1'-0"

E8 RM-219-E12 MINERALOGY SAMPLE STORAGE WEST INTERIOR ELEVATION
1/4" = 1'-0"

E10 RM-221-E03 MINERALOGY & PETROLOGY EAST INTERIOR ELEVATION
1/4" = 1'-0"



G1 RM-223-E07 X-RAY SAMPLE PREP EAST INTERIOR ELEVATION
1/4" = 1'-0"

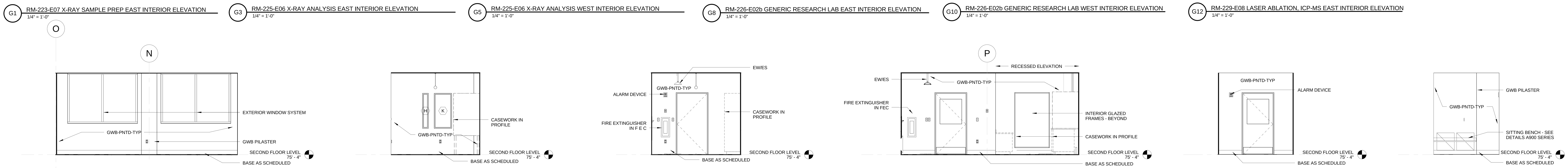
G3 RM-225-E06 X-RAY ANALYSIS EAST INTERIOR ELEVATION
1/4" = 1'-0"

G5 RM-225-E06 X-RAY ANALYSIS WEST INTERIOR ELEVATION
1/4" = 1'-0"

G8 RM-226-E02b GENERIC RESEARCH LAB EAST INTERIOR ELEVATION
1/4" = 1'-0"

G10 RM-226-E02b GENERIC RESEARCH LAB WEST INTERIOR ELEVATION
1/4" = 1'-0"

G12 RM-229-E08 LASER ABLATION, ICP-MS EAST INTERIOR ELEVATION
1/4" = 1'-0"



J1 RM-229-E08 LASER ABLATION, ICP-MS WEST INTERIOR ELEVATION
1/4" = 1'-0"

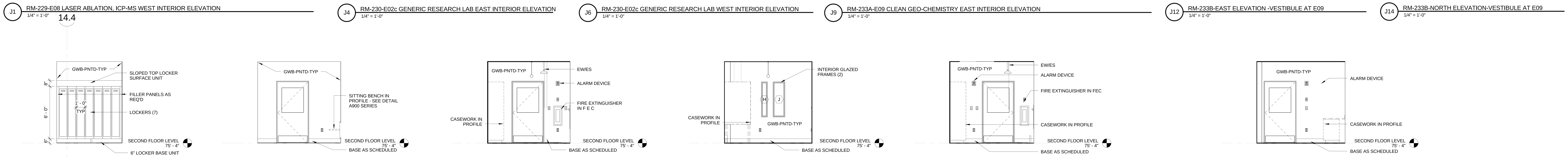
J4 RM-230-E02c GENERIC RESEARCH LAB EAST INTERIOR ELEVATION
1/4" = 1'-0"

J6 RM-230-E02c GENERIC RESEARCH LAB WEST INTERIOR ELEVATION
1/4" = 1'-0"

J9 RM-233A-E09 CLEAN GEO-CHEMISTRY EAST INTERIOR ELEVATION
1/4" = 1'-0"

J12 RM-233B-EAST ELEVATION -VESTIBULE AT E09
1/4" = 1'-0"

J14 RM-233B-NORTH ELEVATION-VESTIBULE AT E09
1/4" = 1'-0"



L1 RM-233B-SOUTH ELEVATION-VESTIBULE AT E09
1/4" = 1'-0"

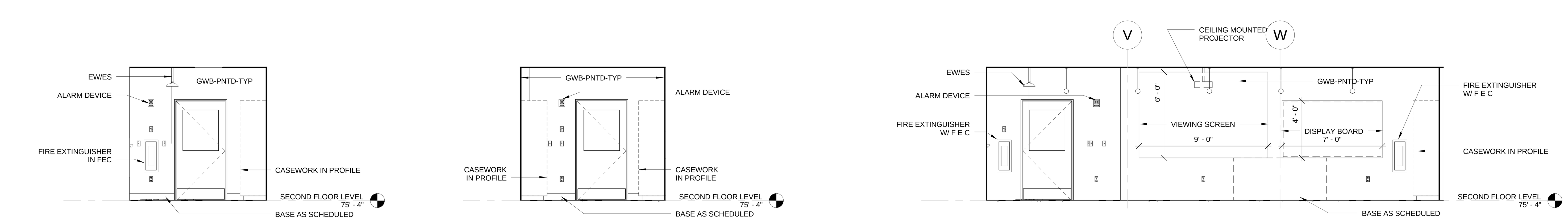
L3 RM-233B-WEST ELEVATION-VESTIBULE AT E09
1/4" = 1'-0"

L5 RM-234-E02d GENERIC RESEARCH LAB WEST INTERIOR ELEVATION
1/4" = 1'-0"

L7 RM-234E02d GENERIC RESEARCH LAB EAST INTERIOR ELEVATION
1/4" = 1'-0"

L10 RM-235-E10 GENERAL GEO-CHEMISTRY STUDENT RESEARCH EAST INTERIOR ELEVATION
1/4" = 1'-0"

L12 RM-237-E01 CATHODOLUMINESCENCE EAST INTERIOR ELEVATION
1/4" = 1'-0"



M1 RM-239-E02a GENERIC RESEARCH LAB EAST INTERIOR ELEVATION
1/4" = 1'-0"

M4 RM-241-E04-1 STRUCTURAL GEOLOGY STORAGE EAST INTERIOR ELEVATION
1/4" = 1'-0"

M7 RM-243-E04 STRUCTURAL GEOLOGY EAST INTERIOR ELEVATION
1/4" = 1'-0"

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drawing title: LABORATORY ELEVATIONS – SECOND LEVEL

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

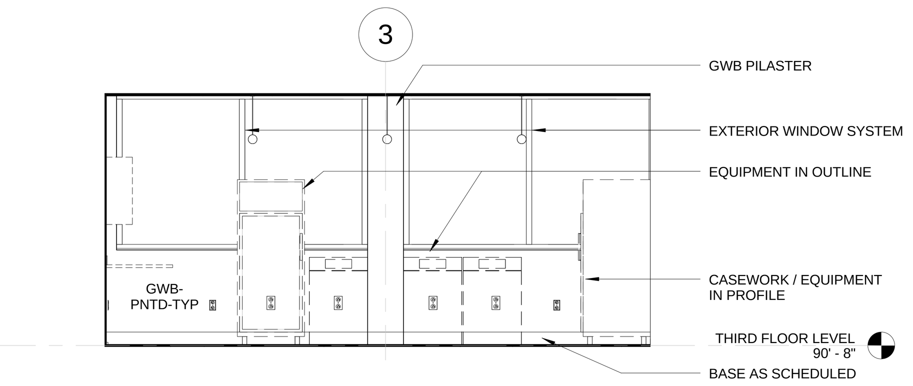
STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

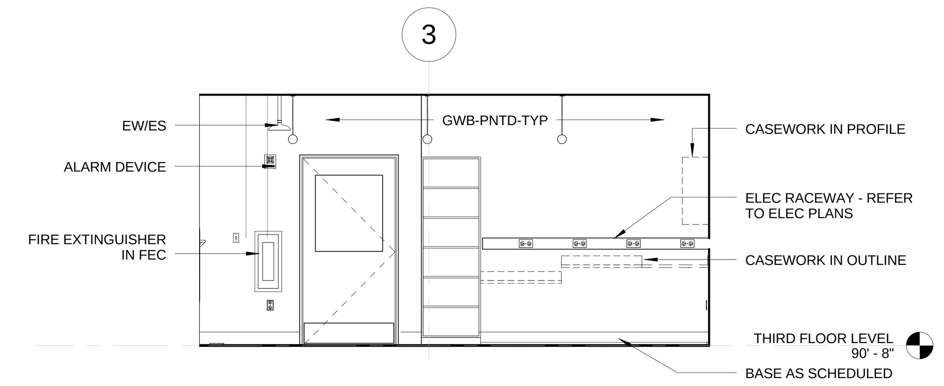
project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

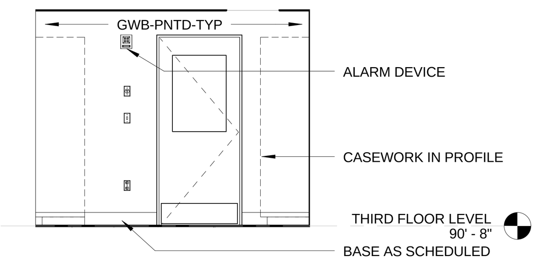
volume: 1 of 2
date: 11-21-2012
scale: 1/4" = 1'-0"
drawn by: EL/BGA
approved by: RM/JBR
drawing no. A712



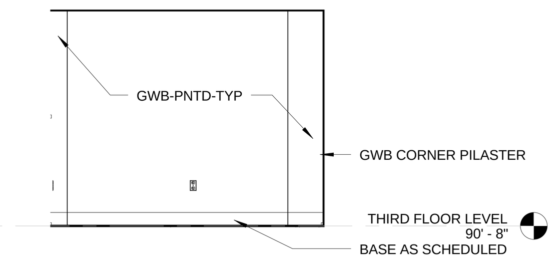
B1 RM-305-B02 MOLECULAR BIOLOGY NORTH INTERIOR ELEVATION
1/4" = 1'-0"



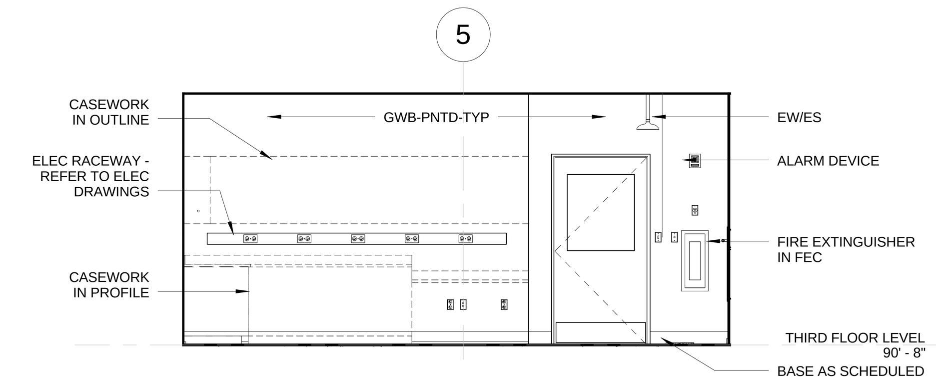
B4 RM-305-B02 MOLECULAR BIOLOGY SOUTH INTERIOR ELEVATION
1/4" = 1'-0"



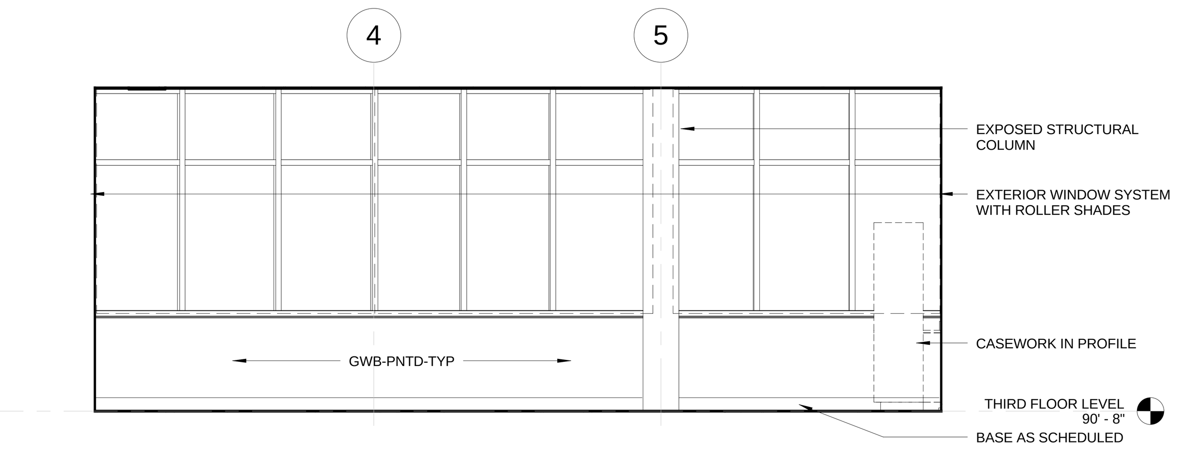
B7 RM-311A-B09 MOLECULAR BIOLOGY MICROSCOPE NORTH INTERIOR ELEVATION
1/4" = 1'-0"



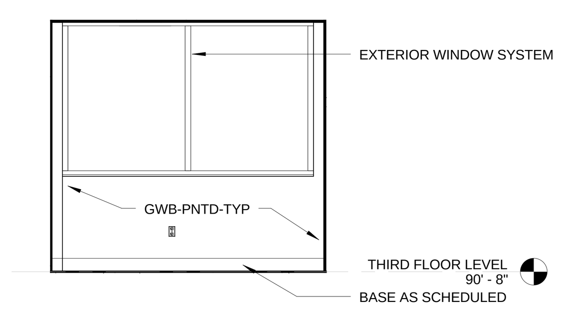
B9 RM-311A-B09 MOLECULAR BIOLOGY MICROSCOPE SOUTH INTERIOR ELEVATION
1/4" = 1'-0"



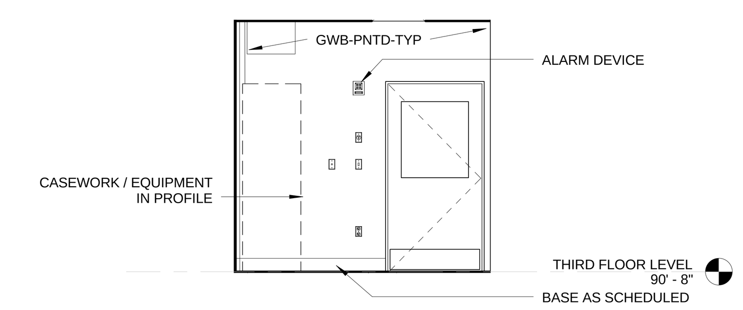
B12 RM-312-B01 MICROBIOLOGY NORTH INTERIOR ELEVATION
1/4" = 1'-0"



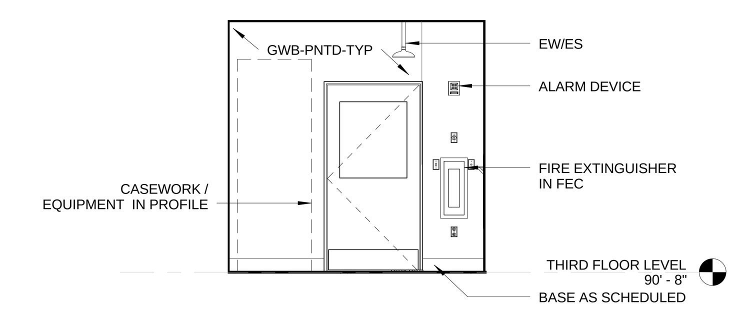
D1 RM-312-B01 MICROBIOLOGY SOUTH ELEVATION
1/4" = 1'-0"



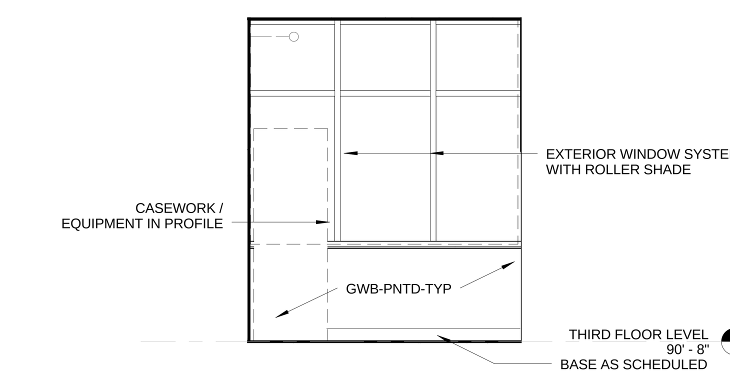
D5 RM-313-S09 MEDIA PREP, GLASS WASH & AUTOCLAVE NORTH ELEVATION
1/4" = 1'-0"



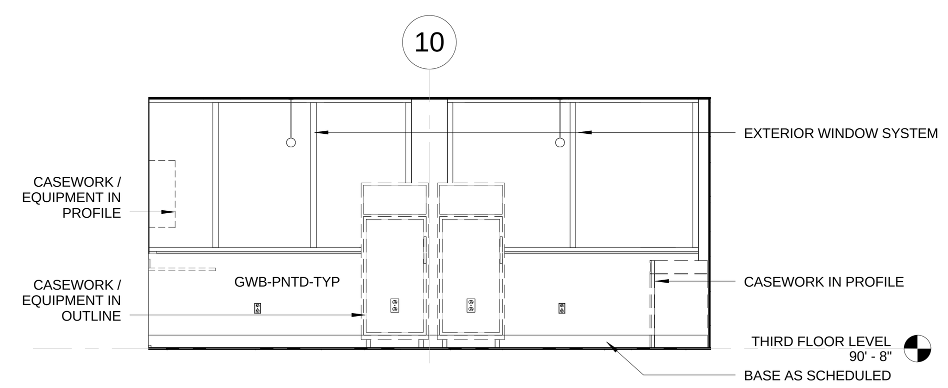
D7 RM-313-S09 MEDIA PREP, GLASS WASH & AUTOCLAVE SOUTH ELEVATION
1/4" = 1'-0"



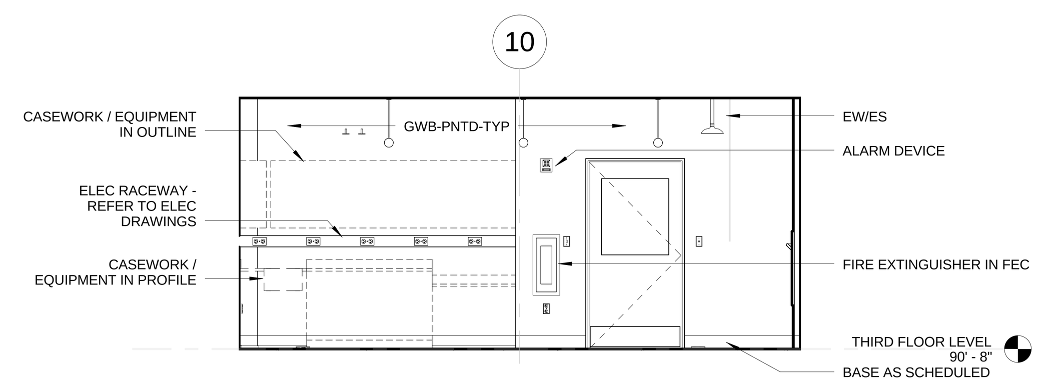
D10 RM-314-B04 CCRI TISSUE CULTURE NORTH ELEVATION
1/4" = 1'-0"



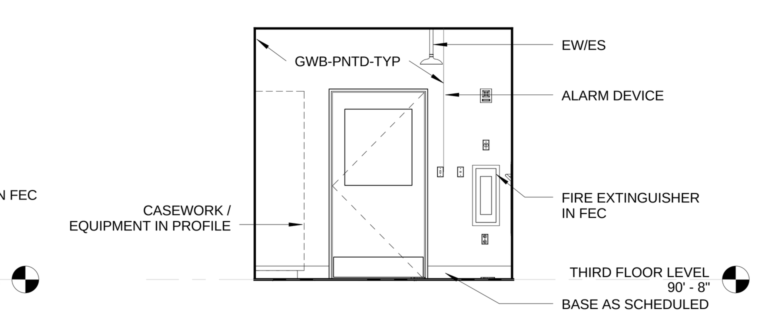
D12 RM-314-B04 CCRI TISSUE CULTURE SOUTH ELEVATION
1/4" = 1'-0"



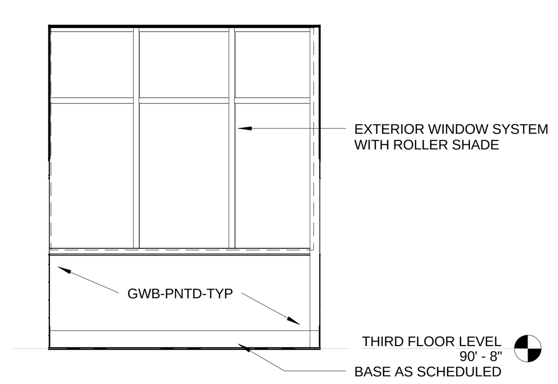
F1 RM-315-C01 BIOCHEMISTRY NORTH INTERIOR ELEVATION
1/4" = 1'-0"



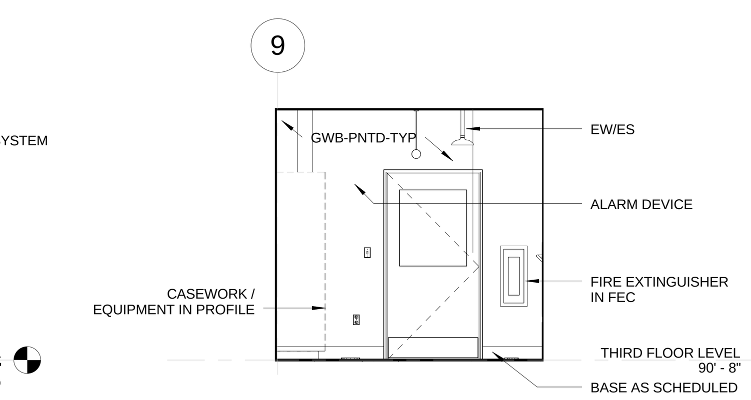
F4 RM-315-C01 BIOCHEMISTRY SOUTH INTERIOR ELEVATION
1/4" = 1'-0"



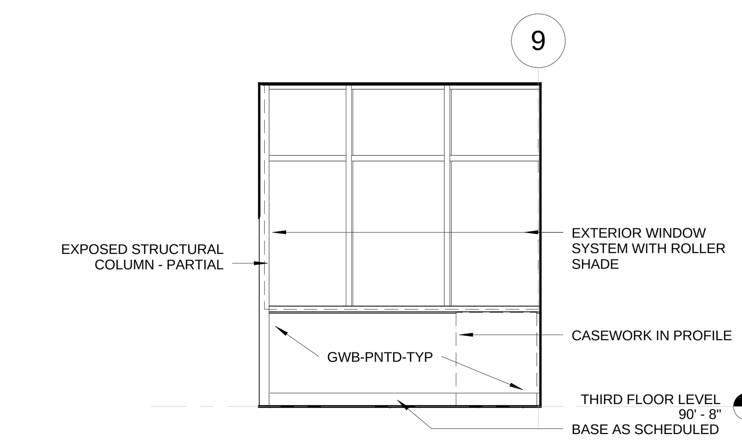
F7 RM-318-B05 CCRI MOLECULAR BIOLOGY NORTH ELEVATION
1/4" = 1'-0"



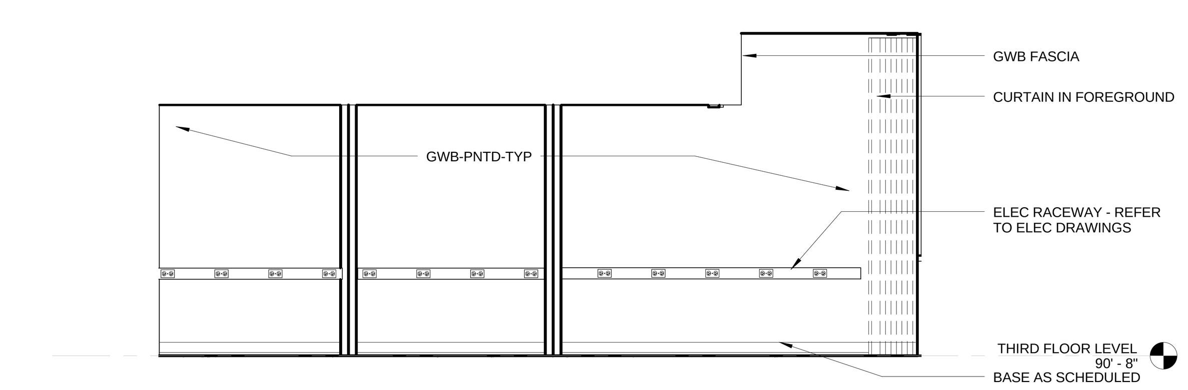
F9 RM-318-B05 CCRI MOLECULAR BIOLOGY SOUTH ELEVATION
1/4" = 1'-0"



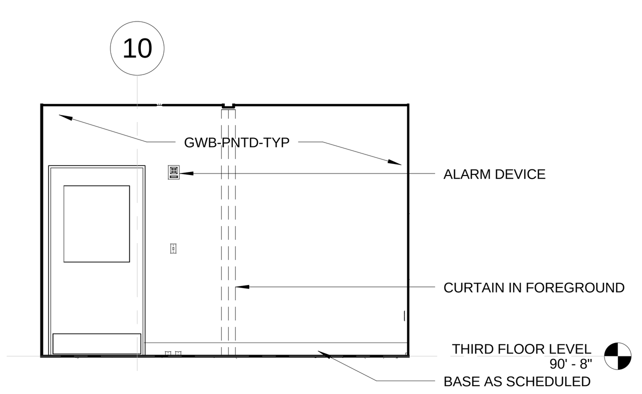
F11 RM-322-B08 CCRI HISTOLOGY NORTH INTERIOR ELEVATION
1/4" = 1'-0"



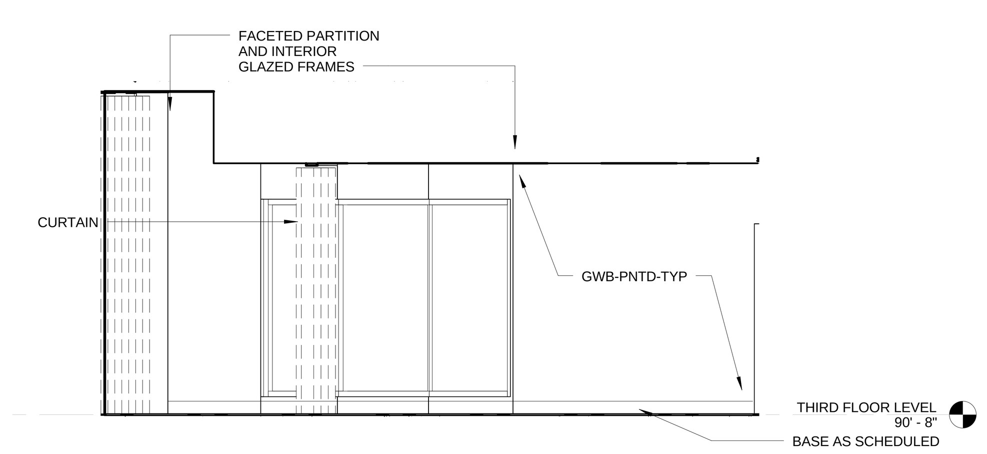
F14 RM-322-B08 CCRI HISTOLOGY SOUTH INTERIOR ELEVATION
1/4" = 1'-0"



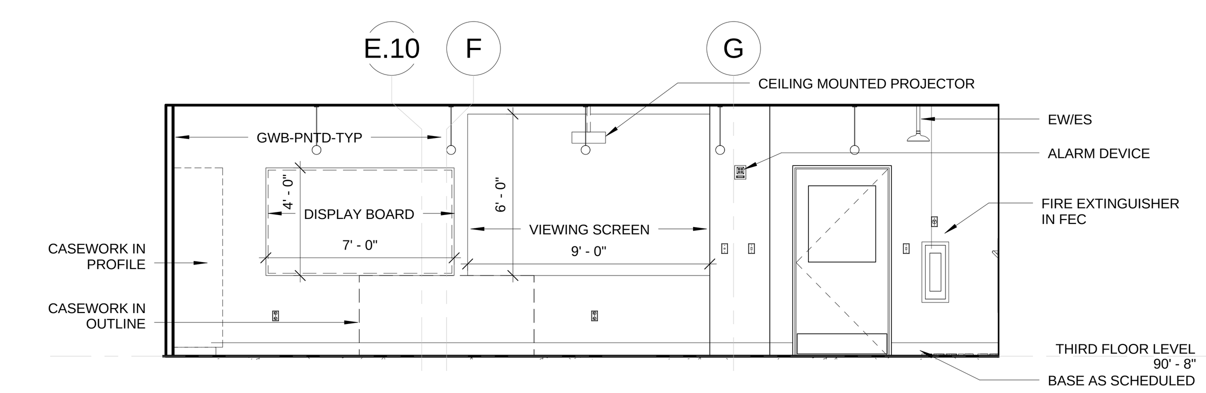
H1 RM-324-B07 CCRI MICROSCOPY EAST INTERIOR ELEVATION
1/4" = 1'-0"



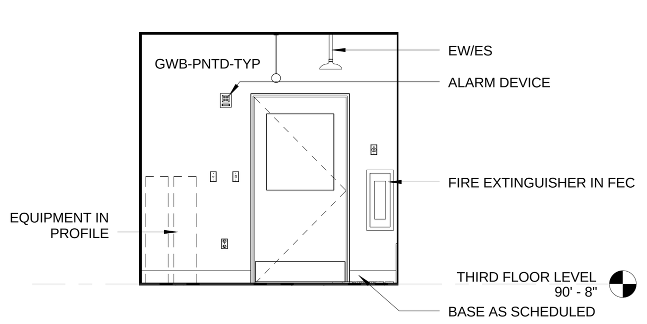
H5 RM-324-B07 CCRI MICROSCOPY NORTH INTERIOR ELEVATION
1/4" = 1'-0"



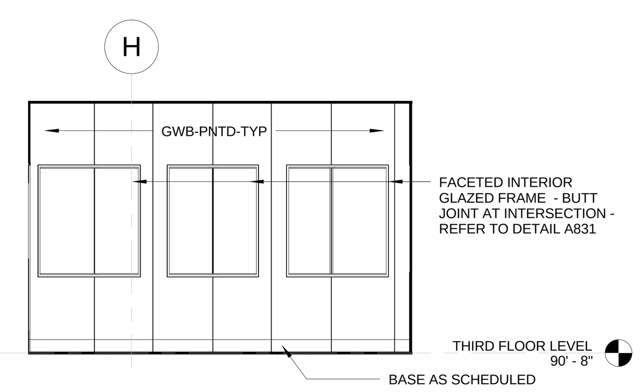
H7 RM-324-B07 CCRI MICROSCOPY WEST INTERIOR ELEVATION
1/4" = 1'-0"



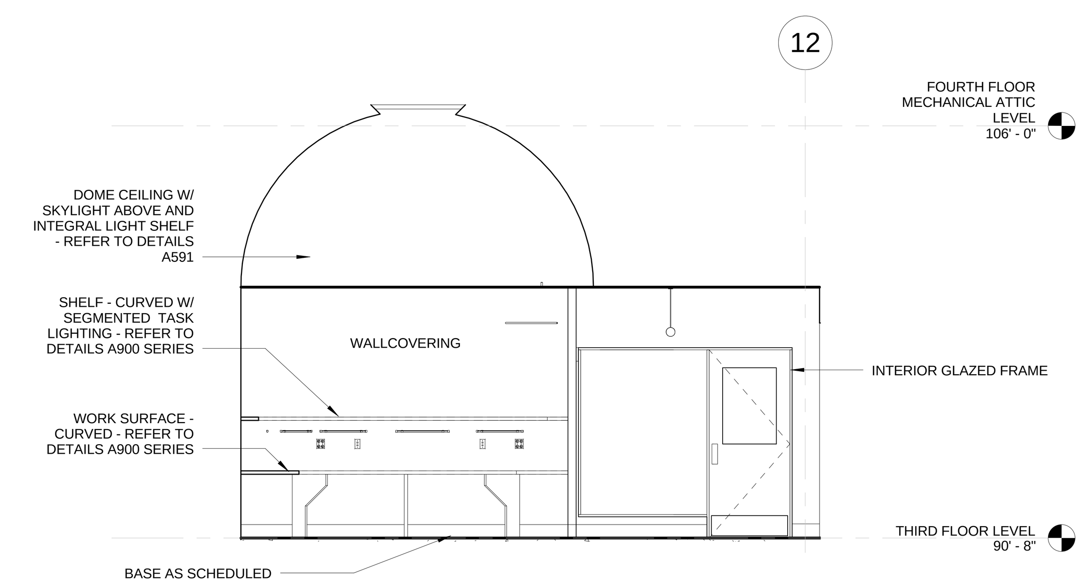
H11 RM-325-C08 INORGANIC LABORATORY EAST INTERIOR ELEVATION
1/4" = 1'-0"



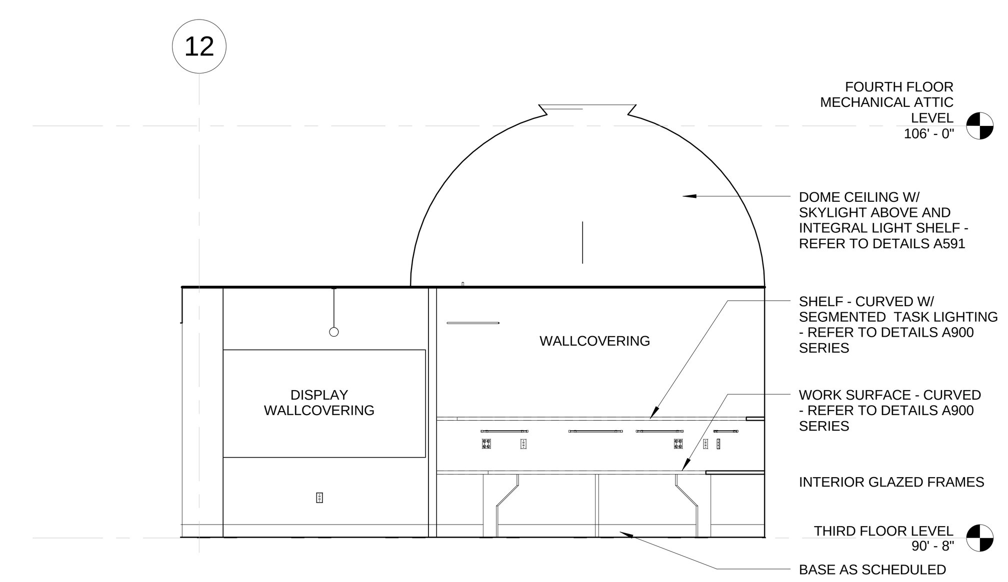
K1 RM-327-C09 INORGANIC PREP LABORATORY EAST ELEVATION
1/4" = 1'-0"



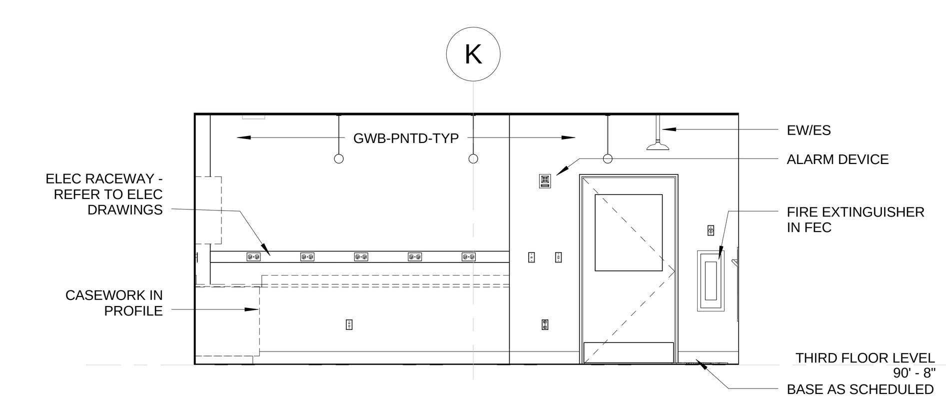
K3 RM-328-P18 ASTRONOMY CONTROL ROOM EAST ELEVATION
1/4" = 1'-0"



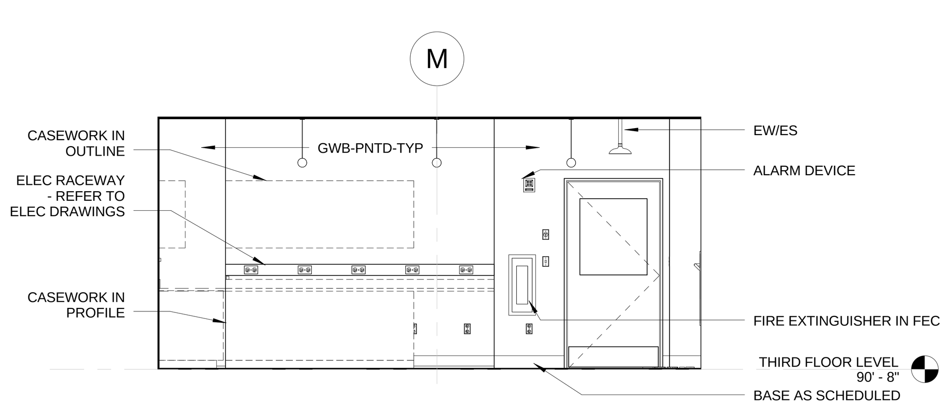
K6 RM-328-P18 ASTRONOMY CONTROL ROOM NORTH INTERIOR ELEVATION
1/4" = 1'-0"



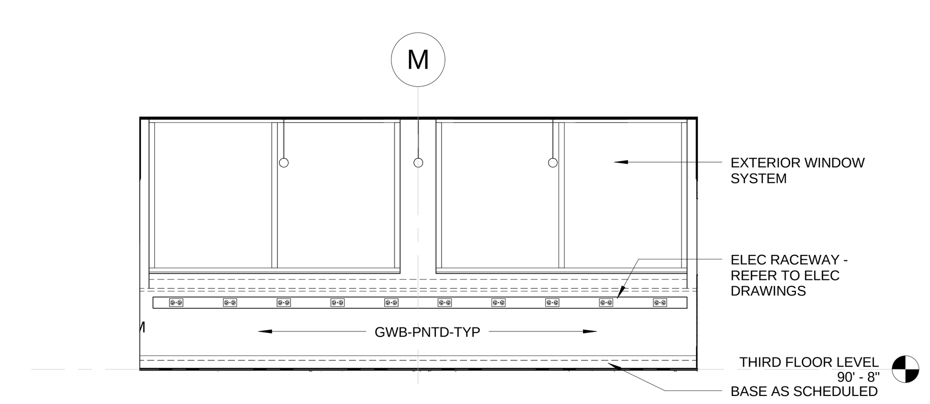
K9 RM-328-P18 ASTRONOMY CONTROL ROOM SOUTH INTERIOR ELEVATION
1/4" = 1'-0"



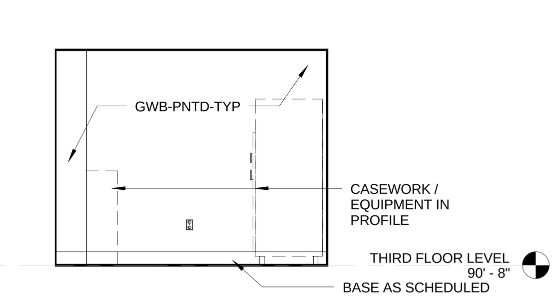
K12 RM-329-C03 INORGANIC EAST INTERIOR ELEVATION
1/4" = 1'-0"



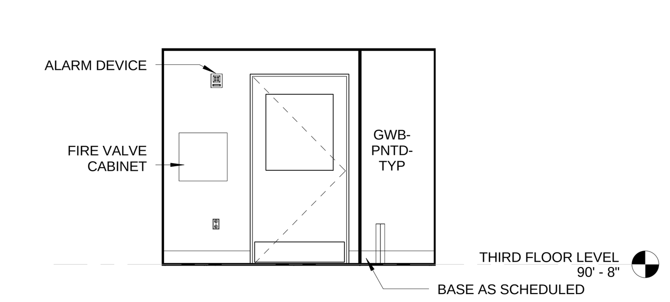
M1 RM-331-C04 PHYSICAL CHEM EAST INTERIOR ELEVATION
1/4" = 1'-0"



M6 RM-331-C04 PHYSICAL CHEM WEST INTERIOR ELEVATION
1/4" = 1'-0"



M8 RM-332-S03 SHARED EQUIPMENT EAST INTERIOR ELEVATION
1/4" = 1'-0"



M10 RM-332-S03 SHARED EQUPMENT WEST INTERIOR ELEVATION
1/4" = 1'-0"

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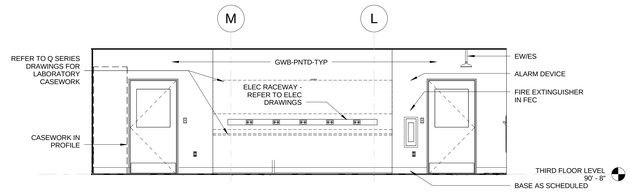
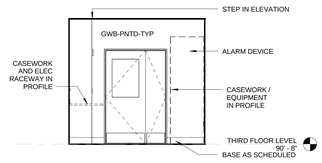
11/21/2012 12:35:46 PM

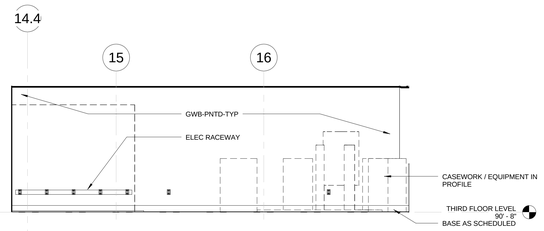
drawing title	LABORATORY ELEVATIONS – THIRD LEVEL
REVISIONS	mark / date / description: 11-21-2012 Bid Documents
	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES
DRAWING PREPARED BY	Centerbrook Architects and Planners, LLP 67 Main Street Post Office Box 955 Centerbrook, Connecticut 06409-0955
project	SCSU NEW ACADEMIC LABORATORY BUILDING
CAD no.	1393
project no.	BI-RS-283
volume	1 of 2
date	11-21-2012
scale	1/4" = 1'-0"
drawn by	EL/BGA
approved by	RM/JBR
drawing no.	A713



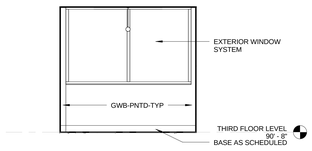
B1 RM-334-C06 ANALYTICAL CHEMISTRY WEST INTERIOR ELEVATION
1/4" = 1'-0"



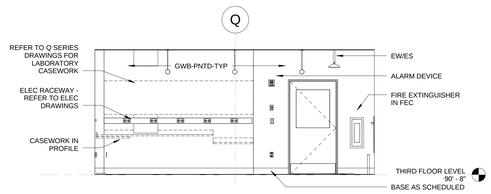
B5 RM-335-C11 NMR LAB EAST INTERIOR ELEVATION
1/4" = 1'-0"



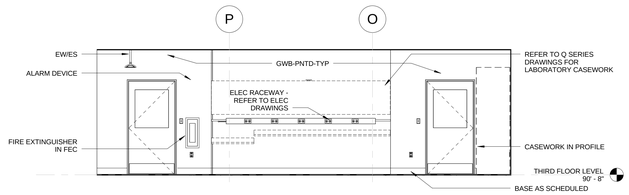
B7 RM-335-C11 NMR LAB SOUTH INTERIOR ELEVATION
1/4" = 1'-0"



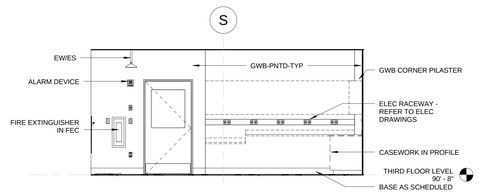
B11 RM-335-C11 NMR LAB WEST INTERIOR ELEVATION
1/4" = 1'-0"



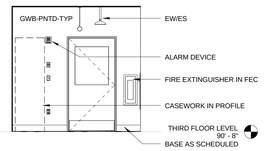
D1 RM-337-C02a ORGANIC EAST INTERIOR ELEVATION
1/4" = 1'-0"



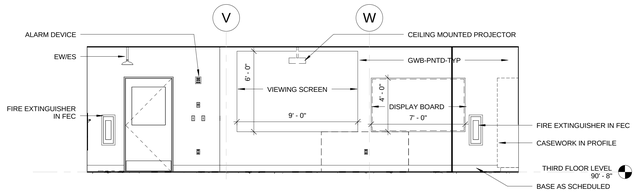
D4 RM-338-C05 ANALYTICAL INSTRUMENT WEST INTERIOR ELEVATION
1/4" = 1'-0"



D8 RM-341-C02b ORGANIC EAST INTERIOR ELEVATION
1/4" = 1'-0"



D11 RM-343-C10 ORGANIC PREP LABORATORY EAST INTERIOR ELEVATION
1/4" = 1'-0"



F1 RM-345-C07 ORGANIC CHEMISTRY EAST INTERIOR ELEVATION
1/4" = 1'-0"

title
LABORATORY ELEVATIONS – THIRD LEVEL

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

sheet no. 1 of 2
date 11-21-2012
scale 1/4" = 1'-0"
drawn by EL/BGA
checked by RMJ/BR
drawing no. A714

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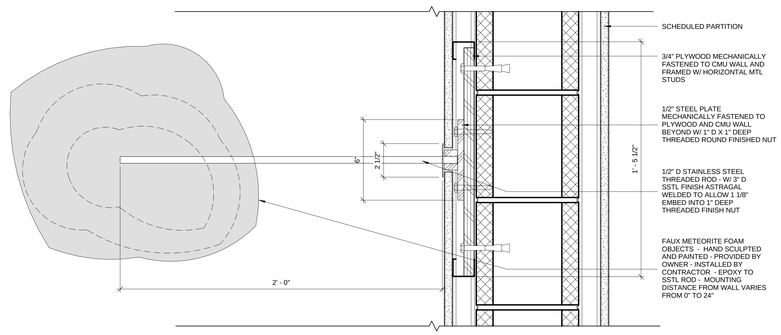
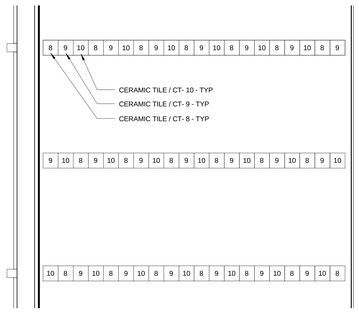
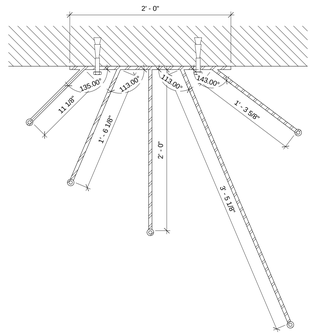


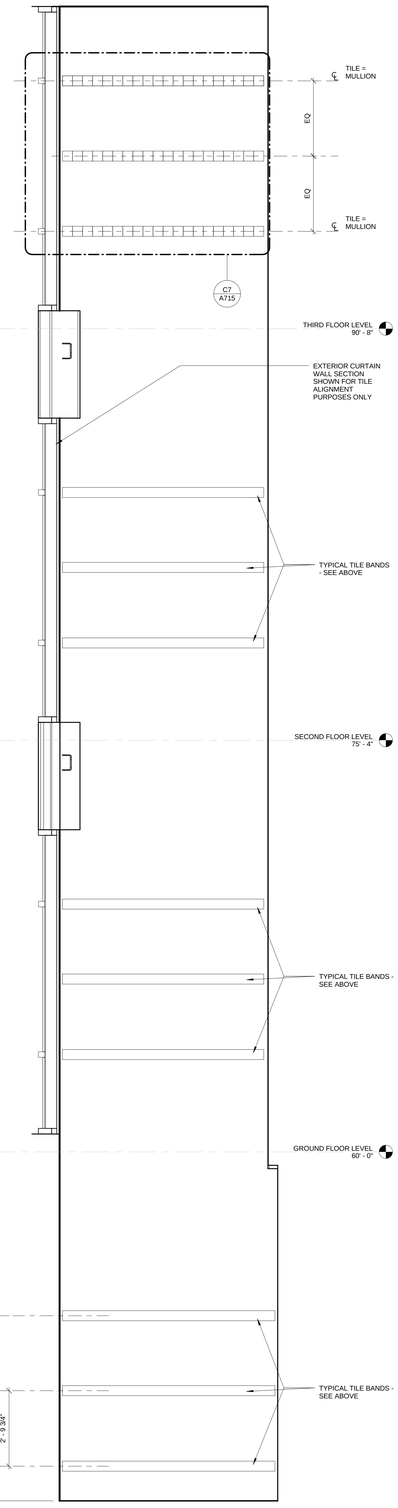
C1 SECTION DETAIL - ATRIUM WALL SPACE SPHERE MOUNTING
3" = 1'-0"



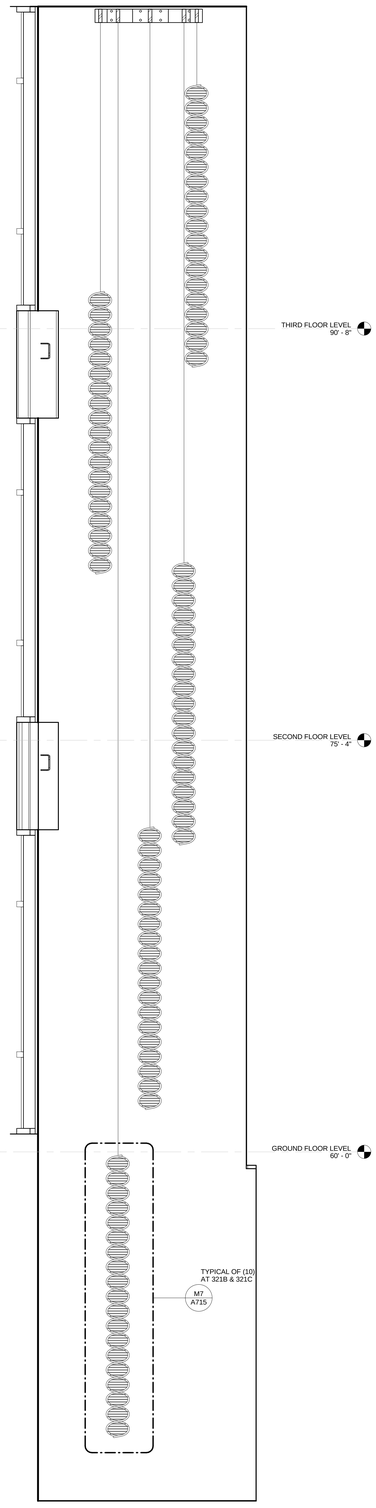
C7 TYPICAL ELEV #2 - DISPLAY TOWER TILE PATTERN
3/4" = 1'-0"



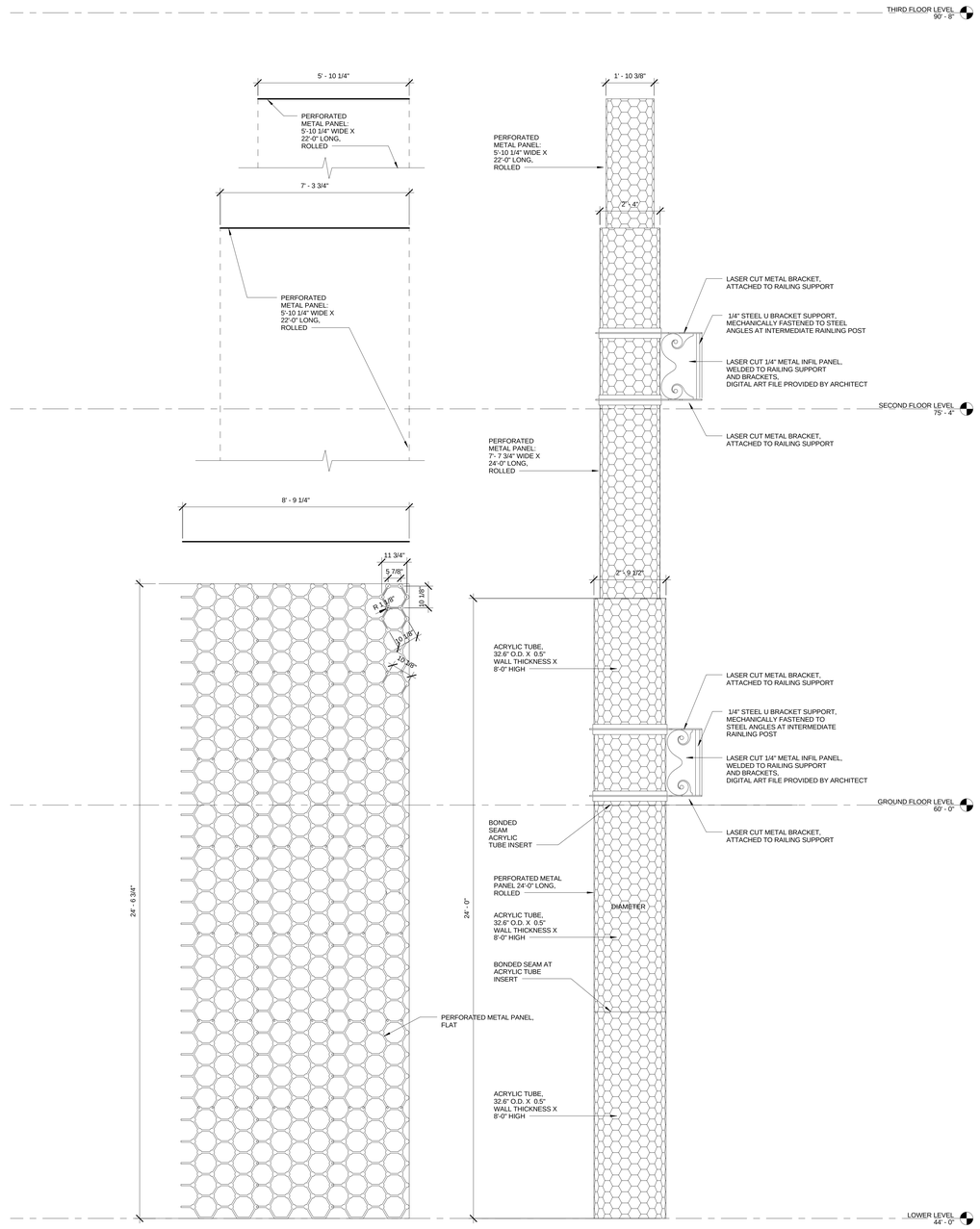
E7 PLAN DETAIL - ELEVATOR SHAFT MOUNTING BRACKET
1 1/2" = 1'-0"



L10 RM 321C - ELEV #2 NORTH EXHIBIT - SOUTH WALL ELEVATION - (321B SIM)
1/2" = 1'-0"

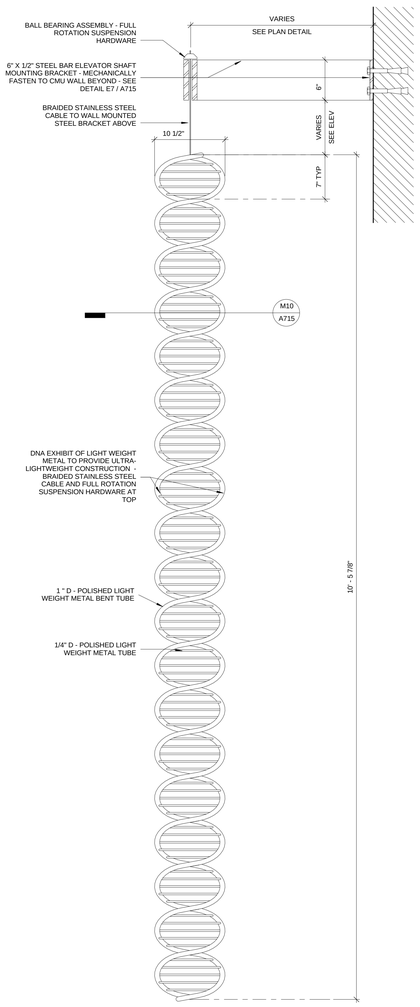


L12 RM 321C - ELEV #2 NORTH EXHIBIT - SOUTH WALL ELEVATION - (321B SIM)
1/2" = 1'-0"

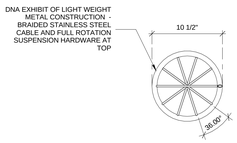


PERFORATION PATTERN

M1 NANOTUBE LIGHT FIXTURE DETAIL
1/2" = 1'-0"



M7 SECTION DETAIL - ELEVATOR SHAFT SUSPENDED DISPLAY
1 1/2" = 1'-0"



M10 PLAN DETAIL - ELEVATOR SHAFT SUSPENDED EXHIBIT
1 1/2" = 1'-0"

drawing title
INTERIOR ELEVATIONS – EXHIBIT VENUES

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PROVIDED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

drawing no. 1 of 2
date 11-21-2012
scale As indicated
drawn by EL/BGA
reviewed by RMJBR
project arch. A715

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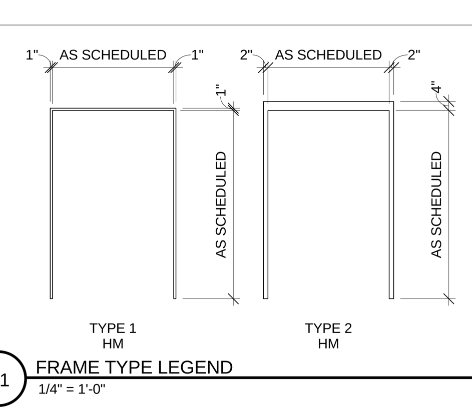
DOOR AND FRAME SCHEDULE

		DOOR						FRAME							
TAG	NAME	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	JAMB	HEAD	THRESHOLD	RATING	HARDWARE
MECHANICAL PIT															
007.1	MEP	3' - 0"	7' - 0"	1 3/4"	A	HM	PNTD	2	HM	PNTD	D10/A803	B10/A803	M5/A803		10.0
007A	MEP	3' - 0"	7' - 0"	1 3/4"	A	HM	PNTD	2	HM	PNTD	D5/A803	B5/A803	-	90 MIN	29.0
009A	ELEVATOR MACHINE RM	3' - 0"	7' - 0"	1 3/4"	A	HM	PNTD	2	HM	PNTD	D11/A803	B11/A803	-	90 MIN	29.0
009B	MDF	3' - 0"	7' - 0"	1 3/4"	A	HM	PNTD	2	HM	PNTD	D11/A803	B11/A803	-	SMOKE PTN	13.0
021.1	MEP	3' - 0"	7' - 0"	1 3/4"	A	HM	PNTD	2	HM	PNTD	D10/A803	B10/A803	M5/A803		10.0
LOWER LEVEL															
001	LOADING DOCK CORRIDOR	6' - 0"	7' - 0"	1 3/4"	C	HM	PNTD	2	HM	PNTD	D13/A803	B13/A803	-	90 MIN	22.0
001.1	LOADING DOCK CORRIDOR	6' - 0"	7' - 0"	1 3/4"	C	HM	PNTD	2	HM	PNTD	D9/A803	B9/A803	-	90 MIN	22.0
002	CORRIDOR	6' - 0"	7' - 0"	1 3/4"	D	HM	PNTD	1	HM	PNTD	D11/A803	B11/A803	D10-A/A902		20.0
003	MAIN ELECTRICAL	3' - 0"	7' - 0"	1 3/4"	A	HM	PNTD	2	HM	PNTD	D7/A803	B7/A803	-	SMOKE PTN	25.0
004	TANK STORAGE	3' - 0"	7' - 0"	1 3/4"	A	HM	PNTD	2	HM	PNTD	D7/A803	B7/A803	-	SMOKE PTN	28.0
005	EMERGENCY ELECTRICAL	3' - 0"	7' - 0"	1 3/4"	A	HM	PNTD	2	HM	PNTD	D11/A803	B11/A803	-	45 MIN	26.0
005.1	MAIN ELECTRICAL	3' - 0"	7' - 0"	1 3/4"	A	HM	PNTD	2	HM	PNTD	D11/A803	B11/A803	-	45 MIN	26.0
006	RECYCLING STORAGE ROOM	3' - 0"	7' - 0"	1 3/4"	A	HM	PNTD	2	HM	PNTD	D7/A803	B7/A803	-	SMOKE PTN	28.0
007	CORRIDOR	8' - 0"	7' - 0"	1 3/4"	C	HM	PNTD	2	HM	PNTD	D7/A803	B7/A803	-	SMOKE PTN	16.0
008	CONTROL ROOM	3' - 0"	7' - 0"	1 3/4"	A	HM	PNTD	2	HM	PNTD	D7/A803	B7/A803	-	SMOKE PTN	28.0
010	MEP	3' - 6"	7' - 0"	1 3/4"	A	HM	PNTD	2	HM	PNTD	D7/A803	B7/A803	-	SMOKE PTN	13.0
010.1	MEP	7' - 0"	7' - 0"	1 3/4"	C	HM	PNTD	2	HM	PNTD	D7/A803	B7/A803	-	SMOKE PTN	35.0
010.2	MEP	7' - 0"	7' - 0"	1 3/4"	C	HM	PNTD	2	HM	PNTD	D7/A803	B7/A803	-	SMOKE PTN	35.0
011	AV CLOSET	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-A/A902		27.0
012	CORRIDOR	7' - 0"	7' - 0"	1 3/4"	C	HM	PNTD	2	HM	PNTD	D7/A803	B7/A803	-	45 MIN	33.0
013	NANOTECHNOLOGY LABORATORY	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-E/A902	45 MIN	53.0
014	STORAGE	5' - 0"	7' - 0"	1 3/4"	C	HM	PNTD	2	HM	PNTD	D7/A803	B7/A803	-		34.0
015-A	PROJECT STORAGE / PREP LABORATORY	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-E/A902	45 MIN	53.0
015-B	PROJECT STORAGE / PREP LABORATORY	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		36.0
015-C	PROJECT STORAGE / PREP LABORATORY	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		36.0
016	CUSTODIAL	3' - 0"	7' - 0"	1 3/4"	A	HM	PNTD	2	HM	PNTD	D7/A803	B7/A803	-		30.0
017	STORAGE	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D13/A803	B13/A803	D10-A/A902	45 MIN	30.0
018	MEN	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-D/A902		40.0
019	NTC MULTIPURPOSE SUPPORT/PREP	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-E/A902	45 MIN	53.0
020	WOMEN	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-D/A902		40.0
021	SOUND LOCK	3' - 0"	7' - 0"	1 3/4"	A	HM	PNTD	2	HM	PNTD	D11/A803	B11/A803	-		61.0
023	SOUND LOCK	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-F/A902 & J5/A803	45 MIN	15.0
025	CORRIDOR	6' - 0"	7' - 0"	1 3/4"	J	WD	PNTD	1	HM	PNTD	G10/A803	B2/A803	-		18.0
027	NTC SPECIMEN PREP SPECIALIZED PROCESS	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-C/A902		53.0
028	CORRIDOR	6' - 0"	7' - 0"	1 3/4"	J	WD	PNTD	1	HM	PNTD	G10/A803	B2/A803	-		18.0
029	NTC MICROTOMY	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-C/A902		47.0
029.1	NTC MICROTOMY	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		36.0
031	MATERIALS SCIENCE	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		58.0
032	NTC SEM LAB	4' - 6"	7' - 0"	1 3/4"	S	HM	PNTD	1	HM	PNTD	D12/A803	B12/A803	D10-C/A902 & J5/A803		59.0
033	SHARED PREP LABORATORY	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		53.0
033.1	SHARED PREP LABORATORY	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		66.0
033.2	SHARED PREP LABORATORY	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		66.0
034	NTC TEM LAB	4' - 6"	7' - 0"	1 3/4"	S	HM	PNTD	1	HM	PNTD	D12/A803	B12/A803	D10-C/A902 & J5/A803		59.0
035	CORRIDOR	2' - 6"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-F/A902		30.0
036	NTC UTILITY ROOM	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D12/A803	B12/A803	D10-C/A902		57.0
036.1	NTC UTILITY ROOM	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D12/A803	B12/A803	-		38.0
037	HIGH RESOLUTION OPTICS	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		58.0
038	NTC AFM / FIB INSTRUMENT LAB	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D12/A803	B12/A803	D10-C/A902		57.0
039	ELECTRICAL	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-F/A902		29.0
040	TECHNICAL STAFF	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	B8/A830	HM	PNTD	F1/A831	E6/A831	D10-B/A902		43.0
041	CUSTODIAL	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-F/A902		30.0
042	NANOMATERIALS	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D12/A803	B12/A803	D10-C/A902		57.0
043	TECHNICAL STAFF	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	B9/A830	HM	PNTD	L1/A831	C6/A831	-		43.0
045	FTE FACULTY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	B11/A830	HM	PNTD	L1/A831	C6/A831	-		43.0
047	FTE FACULTY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	B13/A830	HM	PNTD	L1/A831	C6/A831	-		43.0
049	FTE FACULTY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	B14/A830	HM	PNTD	L1/A831	C6/A831	-		43.0
051	FTE FACULTY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	D1/A830	HM	PNTD	L1/A831	C6/A831	D10-B/A902		43.0
ST1a	EGRESS STAIR	3' - 6"	7' - 0"	1 3/4"	H	WD	ST	2	HM	PNTD	D7/A803	B7/A803	D10-F/A902	90 MIN	23.0
ST3a	EGRESS STAIR	3' - 6"	7' - 0"	1 3/4"	H	WD	ST	1	HM	PNTD	D7/A803	B7/A803	D10-E/A902	90 MIN	23.0
GROUND FLOOR LEVEL															
101	CORRIDOR	6' - 2"	9' - 4"	1 3/4"	R	ALUM	PRN	E11/A544	ALUM	PRN	D4/A560	L5/A542	E6-H/A903		5.0
101.1	CORRIDOR	5' - 11 1/4"	9' - 1 5/8"	1 3/4"	R	ALUM	PRN	E10/A544	ALUM	PRN	M5/A542	L5/A542	E6-J/A903 & L5/A542	90 MIN	21.0
103	COASTAL & MARINE STUDIES	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	E6-C/A903		53.0
103A	COASTAL & MARINE STUDIES PREP	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		37.0
103A.1	GROUND FLOOR WET LAB / MUD ROOM	3' - 0"	7' - 0"	1 3/4"	B	HM	PNTD	1	HM	PNTD	D11/A803	B11/A803	E6-C/A903		39.0
104	WOMEN	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	E6-L/A903		41.0
105	CORRIDOR	6' - 4"	9' - 0"	1 3/4"	J	WD	PNTD	1	HM	PNTD	G10/A803	D2/A803	-		19.0
106	MEN	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	E6-L/A903		41.0
107	ELECTRICAL	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	E6-M/A903		30.0
107A	ELECTRICAL	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		30.0
108	OFFICE WAITING AREA	3' - 7 1/8"	7' - 0"	1 3/4"	G	WD	ST	M1/A830	ALUM	PRN	C6/A552	J9/A550	E6-E/A903		48.0
108A	DEPARTMENT CHAIR	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	D5/A830	HM	PNTD	F1/A831	E10/A831	-		43.0
108B	DEPARTMENT CHAIR	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	D5/A830	HM	PNTD	F1/A831	E10/A831	-		43.0
108C	DEPARTMENT CHAIR	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	D5/A830	HM	PNTD	F1/A831	E10/A831	-		43.0
108D	OFFICE	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	D5/A830	HM	PNTD	F1/A831	E10/A831	-		43.0
108E	OFFICE WAITING AREA	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	D4/A830	HM	PNTD	D1/A831	E10/A831	-		42.0
108F	BREAK ROOM	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	D7/A830	HM	PNTD	F1/A831	E10/A831	-		45.0
108G	COPY/ STORAGE	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	1	HM	PNTD	D11/A803	B11/A803	E6-E/A903	SMOKE PTN	44.0
109	GROUND FLOOR WET LAB / MUD ROOM	3' - 6"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	E6-P/A903		56.0
109.1	GROUND FLOOR WET LAB / MUD ROOM	6' - 0"	9' - 2"	1 3/4"	C	HM	PNTD	1	HM	PNTD	D4/A560 SIM	L8/A510	J1/A803		9.0
109A	GROUND FLOOR WET LAB / MUD ROOM	3' - 6"	7' - 0"	1 3/4"	A	HM	PNTD	1	HM	PNTD	D7/A803	B7/A803	E6-C/A903	SMOKE PTN	63.0
109B	GROUND FLOOR WET LAB / MUD ROOM	3' - 0"	7' - 0"	1 3/4"	A	HM	PNTD	1	HM	PNTD	D11/A803	B11/A803	E6-G/A903		41.0
111	SALTWATER AQUARIUM	4' - 6"	7' - 0"	1 3/4"	P	WD	ST	1	HM	PNTD	D11/A803	B11/A803	E6-P/A903		54.0
111A	SALTWATER AQUARIUM	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-	SMOKE PTN	64.0
111B	GROUND FLOOR WET LAB / MUD ROOM	3' - 6"	7' - 0"	1 3/4"	A	HM	PNTD	1	HM	PNTD	D11/A803	B11/A803	-	SMOKE PTN	56.0
112	VEST	3' - 0"	8' - 11 1/2"	1 3/4"	Q	ALUM	PRN	K6/A540	ALUM	PRN	M4/A550	H6/A551	E6-K/A903		7.0
112.1	VEST	3' - 0"	8' - 11 1/2"	1 3/4"	Q	ALUM	PRN	K6/A540	ALUM	PRN	M4/A550	H6/A551	E6-K/A903		6.0
112.2	VEST	3' - 0"	8' - 11 1/2"	1 3/4"	Q	ALUM	PRN	K1/A540	ALUM	PRN	K4/A550	H9/A551	E6-J/A903		7.0
112.3	VEST	3' - 0"	8' - 11 1/2"	1 3/4"	Q	ALUM	PRN	K1/A540	ALUM	PRN	K4/A550	H9/A551	E6-J/A903		6.0
112A		3' - 0"	8' - 11 1/2"	1 3/4"	Q	ALUM	PRN	M8/A540	ALUM	PRN	K7/A550	J9/A550	M9/A803		2.0
112A.1		3' - 0"	8' - 11 1/2"	1 3/4"	Q	ALUM	PRN	M8/A540	ALUM	PRN	K7/A550	J9/A550	M9/A803		4.0
114	CORRIDOR	6' - 4"	7' - 0"	1 3/4"	J	WD	PNTD	1	HM	PNTD	G10/A803	B2/A803	-		18.0
115		3' - 0"	8' - 11 1/2"	1 3/4"	Q	ALUM	PRN	M4/A540	ALUM	PRN	M1/A550	J9/A550	M9/A803		2.0
115.1		3' - 0"	8' - 11 1/2"	1 3/4"	Q	ALUM	PRN	M4/A540	ALUM	PRN	M1/A550	J9/A550	M9/A803		4.0
116	ROCK SAMPLE STORAGE	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	E6-A/A903	SMOKE PTN	47.0
117A	IDF	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	E6-N/A903		13.0
117B	STORAGE	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	E6-N/A903		27.0
118A	FTE FACULTY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	D12/A830	HM	PNTD	F1/A831	E6/A831	-		43.0
118B	FTE FACULTY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		43.0
118C	FTE FACULTY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	D14/A830	HM	PNTD	F1/A831	E6/A831	-		43.0
118D	FTE FACULTY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	E1/A830	HM	PNTD	F1/A831	E6/A831	-		43.0
118E	FTE FACULTY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	E2/A830	HM	PNTD	F1/A831	E6/A831	E6-E/A903		43.0
118F	TECHNICAL STAFF	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	E4/A830	HM	PNTD	F1/A831	E6/A831	-		43.0
119	ROCK SAMPLE PREP DIRTY-WET LAB	5' - 0"	7' - 0"	1 3/4"	N	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		60.0
119.1	ROCK SAMPLE PREP DIRTY-DRY LAB	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		66.0
120	CORRIDOR	6' - 0"	7' - 0"	1 3/4"	J	WD	PNTD	1	HM	PNTD	G10/A803	B2/A803	-		18.0
121	STORAGE	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	E6-N/A903		30.0
123	ROCK SAMPLE PREP DIRTY-DRY LAB	4' - 6"	7' - 0"	1 3/4"	N	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		60.0
124	OPTICS LABORATORY	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	E6-A/A903		56.0
124.1	OPTICS LABORATORY	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	E6-A/A903		56.0
125	HISTORICAL, SOFT ROCK GEOLOGY STORAGE ROOM	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	E6-A/A903	SMOKE PTN	57.0
125.1	HISTORICAL, SOFT ROCK GEOLOGY STORAGE ROOM	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-	SMOKE PTN	66.0
127	HISTORICAL, SOFT ROCK GEOLOGY	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		58.0
129	ELECTRICAL	6' - 0"	7' - 0"	1 3/4"	J	WD	ST	1	HM	PNTD	D11/A803	B11/A803	E6-N/A903		34.0
130	CORRIDOR	6' - 4"	7' - 0"	1 3/4"	J	WD	PNTD	1	HM	PNTD	G10/A803	B2/A803	-		18.0
131	ASTRONOMICAL INSTRUMENT & IMAGING	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	E6-A/A903		51.0
132	CORRIDOR	6' - 0"	9' - 1 5/8"	1 3/4"	R	ALUM	ST	L3/A542	ALUM	PRN	M7/A542	L5/A542	E6-F/A903 & L5/A542	90 MIN	21.0
133	ASTRONOMICAL INSTRUMENT & IMAGING	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D12/A803	B12/A803	E6-A/A903		57.0
133.1	ASTRONOMICAL INSTRUMENT & IMAGING	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D12/A803	B12/A803	J5/A803		39.0
135	SYNTHESIS & ELECTRICAL CHARACTERIZATION	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		53.0
137	TANK STORAGE	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	E6-N/A903		30.0
139	GENERIC RESEARCH LAB	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		53.0
139.1	GENERIC RESEARCH LAB	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		67.0
139.2	GENERIC RESEARCH LAB	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		67.0
141	PHOTONICS	6' - 0"	7' - 0"	1 3/4"	K	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		60.0
143	CUSTODIAL	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	E6-N/A903		29.0
145	VESTIBULE	3' - 0"	8' - 11 1/2"	1 3/4"	Q	ALUM	PRN	L1/A542	ALUM	PRN	F14/A552	J9/A550	M9/A803		4.0
145.1	VESTIBULE	3' - 0"	8' - 11 1/2"	1 3/4"	Q	ALUM	PRN	L1/A542	ALUM	PRN	F14/A552	J9/A550	M9/A803		3.0
145.2	VESTIBULE	3' - 0"	8' - 11 1/2"	1 3/4"	Q	ALUM	PRN	L1/A542	ALUM	PRN	F14/A552	J9/A550	M9/A803		1.0
145.3	VESTIBULE	3' - 0"	8' - 11 1/2"	1 3/4"	Q	ALUM	PRN	L1/A542	ALUM	PRN	F14/A552	J9/A550	M9/A803		3.0
SECOND FLOOR LEVEL															
202	MEN	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D9-B/A904		41.0
202A	CUSTODIAL	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D12/A803	B12/A803	-		29.0
203	GENERIC RESEARCH LABORATORY	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D9-C/A904		53.0
203.1	GENERIC RESEARCH LABORATORY	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D9-A/A904		50.0

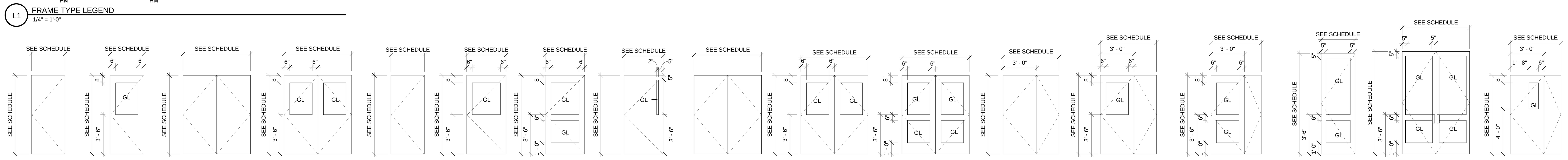
DOOR AND FRAME SCHEDULE

		DOOR						FRAME							
TAG	NAME	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	JAMB	HEAD	THRESHOLD	RATING	HARDWARE
204	WOMEN	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D9-B/A904		41.0
205	CORRIDOR	6' - 4"	9' - 0"	1 3/4"	J	WD	PNTD	1	HM	PNTD	G10/A803	D2/A803	-		19.0
207A	FTE FACULTY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	E6/A830	HM	PNTD	F1/A831	E6/A831	D9-D/A904		43.0
207B	FTE FACULTY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	E8/A830	HM	PNTD	D1/A831	E6/A831	D9-D/A904		43.0
208A	TECHNICAL STAFF	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	E9/A830	HM	PNTD	F1/A831	E6/A831	-		43.0
208B	FTE FACULTY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	E11/A830	HM	PNTD	F1/A831	E6/A831	-		43.0
209	FREEZERS	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D9-C/A904	SMOKE PTN	14.0
209.1	FREEZERS	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-	SMOKE PTN	36.0
210	CLASSROOM	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D9-D/A904		17.0
210.1	CLASSROOM	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D9-D/A904		17.0
211	COASTAL & MARINE STUDIES	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D9-C/A904		53.0
211B	TANK STORAGE	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D9-E/A904		30.0
211C	TANK STORAGE	1' - 8"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D9-E/A904		31.0
212	CONFERENCE / SEMINAR ROOM	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D9-D/A904		46.0
214	COMPUTER LAB	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D9-A/A904		49.0
214A	FTE FACULTY	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D9-D/A904		43.0
215	CORRIDOR	6' - 4"	7' - 0"	1 3/4"	J	WD	PNTD	1	HM	PNTD	G10/A803	B2/A803	-		18.0
216	FTE FACULTY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	E13/A830	HM	PNTD	F1/A831	E6/A831	D9-D/A904		43.0
217	IDF	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D9-F/A904		13.0
218	CORRIDOR	6' - 0"	7' - 0"	1 3/4"	J	WD	PNTD	1	HM	PNTD	G10/A803	B2/A803	-		18.0
218A	FTE FACULTY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	E14/A830	HM	PNTD	D1/A831	E6/A831	D9-D/A904		43.0
218B	FTE FACULTY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	F2/A830	HM	PNTD	F1/A831	E6/A831	D9-D/A904		43.0
218C	FTE FACULTY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	F4/A830	HM	PNTD	F1/A831	E6/A831	D9-D/A904		43.0
218D	FTE FACULTY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	F5/A830	HM	PNTD	D1/A831	E6/A831	D9-D/A904		43.0
219	MINERALOGY SAMPLE STORAGE SECURE ROOM	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D9-A/A904	SMOKE PTN	14.0
219.1	MINERALOGY SAMPLE STORAGE SECURE ROOM	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-	SMOKE PTN	67.0
221	MINERALOGY, PETROLOGY	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		53.0
221.1	MINERALOGY, PETROLOGY	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		67.0
222	CLASSROOM	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	K5/A830	ALUM	PRN			D9-D/A904		17.0
222.1	CLASSROOM	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	K5/A830	ALUM	PRN			D9-D/A904		17.0
223	X-RAY SAMPLE PREP	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		53.0
223.1	X-RAY SAMPLE PREP	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		67.0
225	X-RAY ANALYSIS	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		53.0
226	GENERIC RESEARCH LAB	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		53.0
227	TANK STORAGE	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D9-F/A904		30.0
228	STORAGE	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D9-F/A904		30.0
229	LASER ABLATION, ICP-MS LAB	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		53.0
229.1	LASER ABLATION, ICP-MS LAB	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		69.0
230	GENERIC RESEARCH LAB	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		53.0
231	ELECTRICAL	6' - 0"	7' - 0"	1 3/4"	J	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D9-F/A904		34.0
232	STORAGE	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D9-F/A904		30.0
233A	CLEAN GEO-CHEMISTRY LAB	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D12/A803	B12/A803	-		69.0
233B	VESTIBULE	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		53.0
234	GENERIC RESEARCH LAB	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		53.0
235	GENERAL GEO-CHEMISTRY STUDENT RESEARCH LAB	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		53.0
237	CATHODOLUMINESCENCE / FLUID INCLUSION	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D9-A/A904		56.0
237.1	CATHODOLUMINESCENCE / FLUID INCLUSION	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		66.0
239	GENERIC RESEARCH LAB	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		53.0
241	STRUCTURAL GEOLOGY STORAGE ROOM	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D9-A/A904	SMOKE PTN	14.0
241.1	STRUCTURAL GEOLOGY STORAGE ROOM	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-	SMOKE PTN	68.0
241.2	STRUCTURAL GEOLOGY STORAGE ROOM	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-	SMOKE PTN	67.0
242	CORRIDOR	6' - 4"	7' - 0"	1 3/4"	J	WD	PNTD	1	HM	PNTD	G10/A803	B2/A803	-		18.0
243	STRUCTURAL GEOLOGY	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		53.0
245	CUSTODIAL	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D9-F/A904		29.0
247	GROUP STUDY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	K14/A830	ALUM	PRN			D9-D/A904		36.0
249	ELECTRICAL	6' - 0"	7' - 0"	1 3/4"	J	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		34.0
ST1c	EGRESS STAIR	3' - 6"	7' - 0"	1 3/4"	H	WD	ST	J4/A830	HM	PNTD	F1/A831	E10/A831	D9-C/A904	90 MIN	23.0
ST2c	STAIR	3' - 0"	7' - 0"	1 3/4"	H	WD	ST	M12/A830	HM	PNTD	D1/A831	E6/A831	D9-C/A904	45 MIN	24.0
ST3c	EGRESS STAIR	3' - 6"	7' - 0"	1 3/4"	H	WD	ST	1	HM	PNTD	D7/A803	B7/A803	D9-C/A904	90 MIN	23.0
THIRD FLOOR LEVEL															
301	BRIDGE CONNECTOR	6' - 0"	7' - 0"	1 3/4"	L	WD	ST	1	HM	PNTD	L12/A520	B13/A803	-	90 MIN	22.0
301.1	BRIDGE CONNECTOR	6' - 0"	7' - 0"	1 3/4"	L	WD	ST	1	HM	PNTD	M9/A520	M6/A520	-	90 MIN	65.0
302	MEN	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-B/A905		41.0
302A	CUSTODIAL	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D12/A803	B12/A803	-		29.0
304	WOMEN	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-B/A905		41.0
305	MOLECULAR BIOLOGY	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-C/A905		53.0
305.1	MOLECULAR BIOLOGY	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-A/A905		52.0
308	MICROBIOLOGY	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-D/A905		52.0
311A	MOLECULAR BIOLOGY MICROSCOPE	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		50.0
311B	FTE FACULTY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	F8/A830	HM	PNTD	D1/A831	E6/A831	D10-D/A905		43.0
311C	FTE FACULTY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	F9/A830	HM	PNTD	F1/A831	E6/A831	D10-D/A905		43.0
311D	FTE FACULTY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	F9/A830	HM	PNTD	F1/A831	E6/A831	D10-D/A905		43.0
311E	FTE FACULTY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	F9/A830	HM	PNTD	F1/A831	E6/A831	D10-D/A905		43.0
311G	ELECTRICAL	5' - 0"	7' - 0"	1 3/4"	J	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		34.0
312	MICROBIOLOGY	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-C/A905		53.0
312.1	CORRIDOR	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-C/A905		51.0
313	CORRIDOR	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-C/A905		47.0
314	TISSUE CULTURE	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-C/A905		53.0
315	BIOCHEMISTRY	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-C/A905		53.0
315.1	MEDIA PREP, GL WASH, & STERIL. AUTOCLAVE	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		37.0
315B	TANK STORAGE	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-E/A905		30.0
316	ELECTRICAL	4' - 6"	7' - 0"	1 3/4"	J	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-E/A905		34.0
318	MOLECULAR BIOLOGY	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-C/A905		53.0
318.1	MOLECULAR BIOLOGY	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		67.0
318.2	MOLECULAR BIOLOGY	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		67.0
319	KNUCKLE LOBBY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	M7/A830	ALUM	PRN			D10-D/A905		46.0
319.1	CONFERENCE /SEMINAR ROOM	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	M7/A830	ALUM	PRN			D10-D/A905		46.0
320	ELECTRICAL	4' - 6"	7' - 0"	1 3/4"	J	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-E/A905		34.0
322	HISTOLOGY	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-C/A905		53.0
323	IDF	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-F/A905		13.0
324	MICROSCOPY	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-C/A905		49.0
325	INORGANIC LABORATORY	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		53.0
327	INORGANIC PREP LABORATORY	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		53.0
327.1	INORGANIC PREP LABORATORY	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		67.0
327.2	INORGANIC PREP LABORATORY	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		67.0
327B	TANK STORAGE	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-F/A905		30.0
328	ASTRONOMY CONTROL ROOM	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	M10/A830	HM	PNTD	D1/A831	E6/A831	D10-D/A905		50.0
329	INORGANIC	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		53.0
330	STORAGE	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-F/A905		30.0
331	PHYSICAL CHEM	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		53.0
331.1	PHYSICAL CHEM	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		67.0
331.2	PHYSICAL CHEM	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		62.0
332	SHARED EQUIPMENT	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-A/A905		49.0
333	ELECTRICAL	6' - 0"	7' - 0"	1 3/4"	J	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-F/A905		34.0
334-A	ANALYTICAL CHEMISTRY	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		53.0
334-B	ANALYTICAL CHEMISTRY	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		53.0
335	NMR LAB	4' - 6"	7' - 0"	1 3/4"	N	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		55.0
336	TANK STORAGE	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-F/A905		30.0
337	ORGANIC	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		53.0
338	ANALYTICAL INSTRUMENT	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		53.0
338.1	ANALYTICAL INSTRUMENT	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		53.0
340A	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	F12/A830	HM	PNTD	H1/A831	E6/A831	D10-D/A905		43.0
340B	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	G1/A830	HM	PNTD	F1/A831	E6/A831	D10-D/A905		43.0
340C	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	G4/A830	HM	PNTD	F1/A831	E6/A831	D10-D/A905		43.0
340D	FTE FACULTY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	G7/A830	HM	PNTD	F1/A831	E6/A831	D10-D/A905		43.0
340E	FTE FACULTY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	G8/A830	HM	PNTD	F1/A831	E6/A831	D10-D/A905		43.0
340F	FTE FACULTY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	G9/A830	HM	PNTD	H1/A831	E6/A831	D10-D/A905		43.0
341	ORGANIC	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		53.0
341.1	ORGANIC	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		67.0
342	FTE FACULTY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	G12/A830	HM	PNTD	J1/A831	E6/A831	D10-D/A905		43.0
343	ORGANIC PREP LABORATORY	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		53.0
343.1	ORGANIC PREP LABORATORY	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		67.0
343.2	ORGANIC PREP LABORATORY	3' - 0"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		67.0
345	ORGANIC CHEMISTRY	3' - 6"	7' - 0"	1 3/4"	F	WD	ST	1	HM	PNTD	D11/A803	B11/A803	-		53.0
345B	TANK STORAGE	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-F/A905		30.0
347	CUSTODIAL	3' - 0"	7' - 0"	1 3/4"	E	WD	ST	1	HM	PNTD	D11/A803	B11/A803	D10-F/A905		29.0
349	GROUP STUDY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	K13/A830	ALUM	PRN			D10-D/A905		36.0
352	FTE FACULTY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	G13/A830	HM	PNTD	L1/A831	C10/A831	D10-D/A905		43.0
356	FTE FACULTY	3' - 0"	7' - 0"	1 3/4"	G	WD	ST	J1/A830	HM	PNTD	L1/A831	C10/A831	D10-D/A905		43.0
ST1d	EGRESS STAIR	3' - 6"	7' - 0"	1 3/4"	H	WD	ST	J4/A830	HM	PNTD	F1/A831	E10/A831	D10-C/A905	90 MIN	23.0
ST2d	STAIR	3' - 0"	7' - 0"	1 3/4"	H	WD	ST	J5/A830	HM	PNTD	J1/A831 SIM	E6/A831	D10-C/A905	45 MIN	23.0
ST3d	EGRESS STAIR	3' - 6"	7' - 0"	1 3/4"	H	WD	ST	1	HM	PNTD	D7/A803	B7/A803	D10-C/A905	90 MIN	23.0
FOURTH FLOOR MECHANICAL ATTIC LEVEL															
401		3' - 6"	7' - 0"	1 3/4"	Q	ALUM	PRN	H12/A544	ALUM	PRN	J7/A550	J9/A550	M6/A803		8.0
402	MEP	3' - 6"	7' - 0"	1 3/4"	A	HM	PNTD	2	HM	PNTD	G1/A803	E1/A803	-		28.0
402.1	MEP	3' - 6"	7' - 0"	1 3/4"	A	HM	PNTD	2	HM	PNTD	G5/A803	E5/A803	M1/A803		32.0
402A	VESTIBULE	3' - 0"	7' - 0"	1 3/4"	B	HM	PNTD	2	HM	PNTD	G1/A803	E1/A803	-		44.0
403	MEP	3' - 6"	7' - 0"	1 3/4"	A	HM	PNTD	2	HM	PNTD	G5/A803	E5/A803	M1/A803		32.0
404		7' - 0"	10' - 0"	1 3/4"	C	HM	PNTD	2	HM	PNTD		H11/A591	M6/A803		11.0
404A		3' - 0"	7' - 0"	1 3/4"	A	HM	PNTD	2	HM	PNTD	G1/A803	E1/A803	-		27.0
404B	EMERGENCY ELECTRICAL	6' - 0"	7' - 0"	1 3/4"	C	HM	PNTD	2	HM	PNTD	D11/A803	B11/A803	-		34.0
406	VESTIBULE	3' - 0"	7' - 0"	1 3/4"	B	HM	PNTD	2	HM	PNTD	G1/A803	E1/A803	-		44.0
ST1e	EGRESS STAIR	3' - 0"	7' - 0"	1 3/4"	B	HM	PNTD	2	HM	PNTD	D7/A803	B7/A803	-	90 MIN	12.0
ST3e	EGRESS STAIR	3' - 0"	7' - 0"	1 3/4"	B	HM	PNTD	2	HM	PNTD	D7/A803	B7/A803	-	90 MIN	12.0



NOTE:
1. REFER TO DRAWING TO DRAWING A830 FOR ADDITIONAL INTERIOR GLAZED FRAME ELEVATIONS.
2. REFER TO DRAWINGS A540 THRU A545 FOR CURTAIN WALL CONFIGURATIONS.

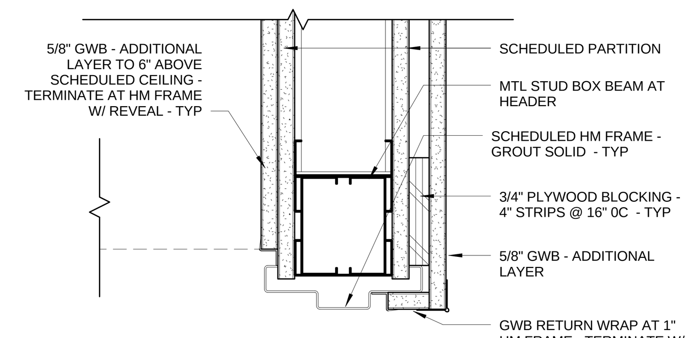
L1 FRAME TYPE LEGEND
1/4" = 1'-0"



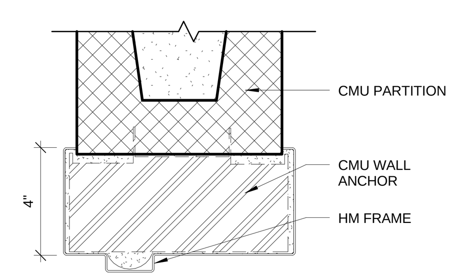
M1 DOOR TYPE LEGEND
1/4" = 1'-0"

C:\Revit Local Files\1393 SCSU New Academic and Laboratory Building A12 Central_Graph.rvt
11/21/2012 12:36:37 PM

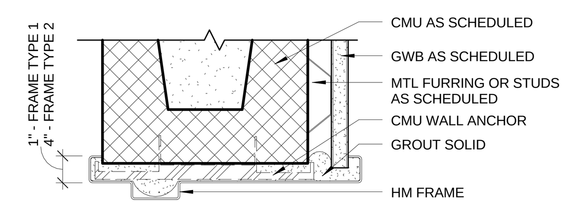
drawing title	DOOR SCHEDULE
REVISIONS	mark / date / description: 11-21-2012 Bid Documents
	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES
DRAWING PREPARED BY	Centerbrook Architects and Planners, LLP 67 Main Street Post Office Box 955 Centerbrook, Connecticut 06409-0955
project	SCSU NEW ACADEMIC LABORATORY BUILDING
CAD no.	1393
project no.	BI-RS-283
volume	1 of 2
date	11-21-2012
scale	1/4" = 1'-0"
drawn by	EL/RM/KEC
approved by	RM/JBR
drawing no.	A802



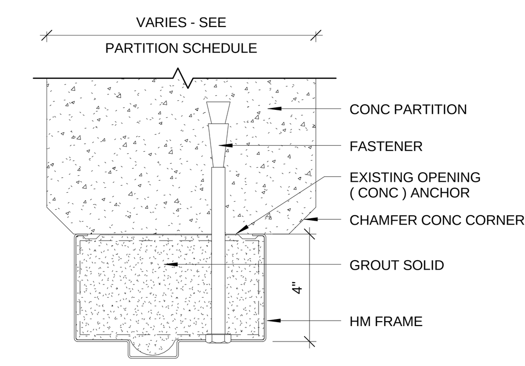
B2 FRAME DETAILS - TYPICAL RECESSED DOOR HEAD CONDITION - 1
3" = 1'-0"



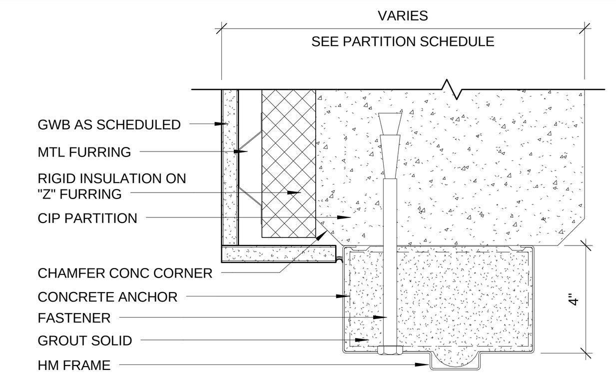
B5 HEAD DETAIL - CMU - HM FRAME
3" = 1'-0"



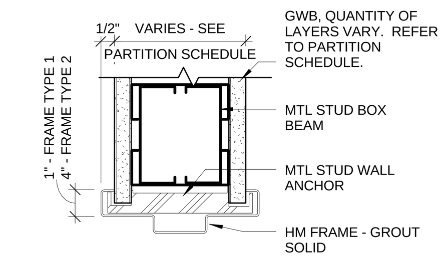
B7 HEAD DETAIL - CMU/GWB - HM FRAME
3" = 1'-0"



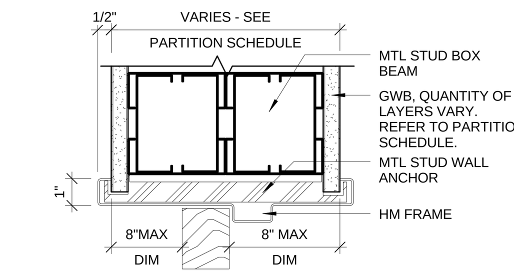
B9 HEAD DETAIL - CONC - HM FRAME
3" = 1'-0"



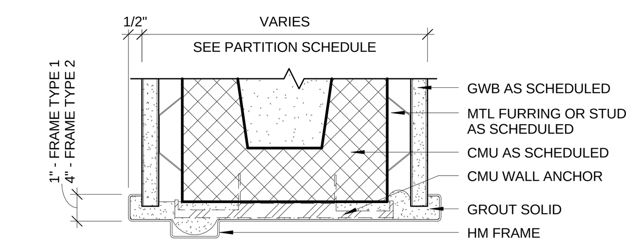
B10 HEAD DETAIL - GWB/INSUL/CONC - HM FRAME
3" = 1'-0"



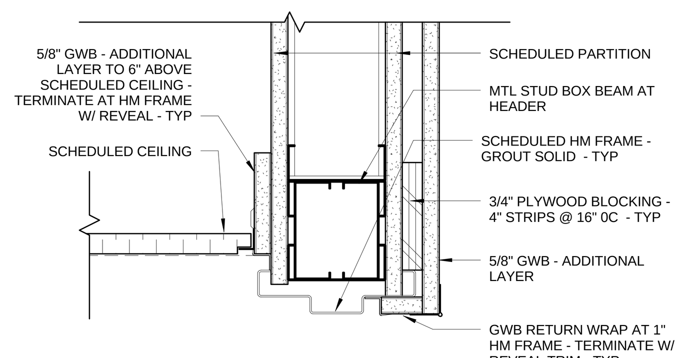
B11 HEAD DETAIL - GWB - HM FRAME
3" = 1'-0"



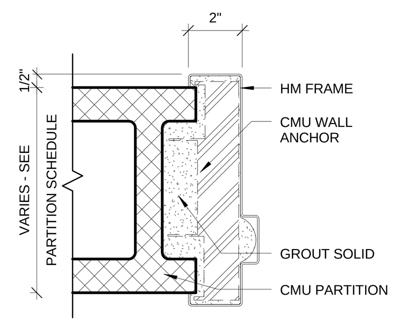
B12 HEAD DETAIL - GWB/STUD/STUD/GWB - HM FRAME
3" = 1'-0"



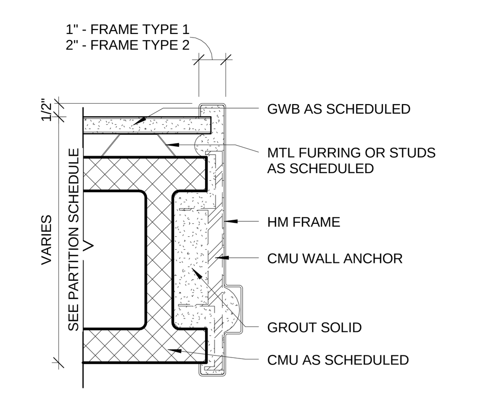
B13 HEAD DETAIL - GWB/CMU/GWB - HM FRAME
3" = 1'-0"



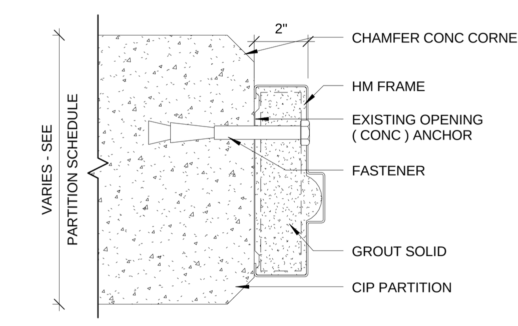
D2 FRAME DETAILS - TYPICAL RECESSED DOOR HEAD CONDITION - 2
3" = 1'-0"



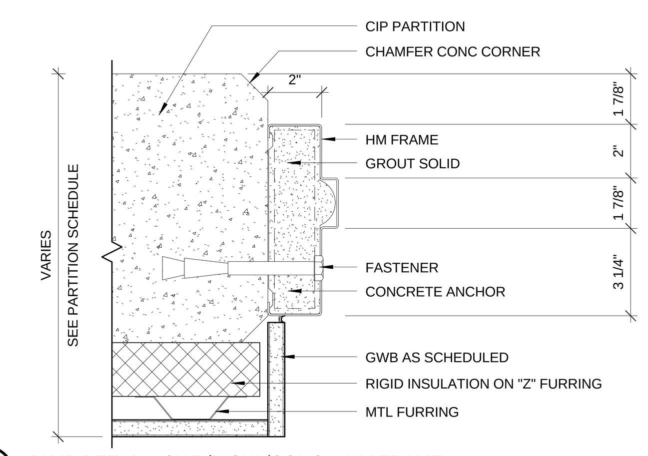
D5 JAMB DETAIL - CMU - HM FRAME
3" = 1'-0"



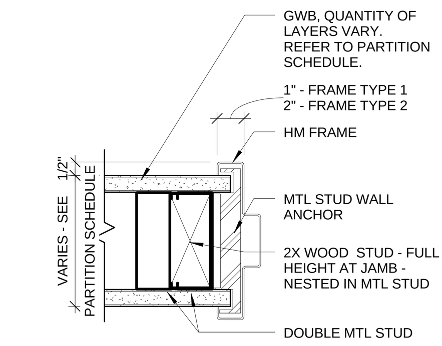
D7 JAMB DETAIL - CMU/GWB - HM FRAME
3" = 1'-0"



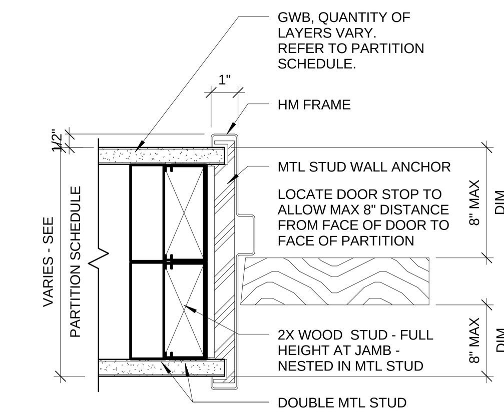
D9 JAMB DETAIL - CONC - HM FRAME
3" = 1'-0"



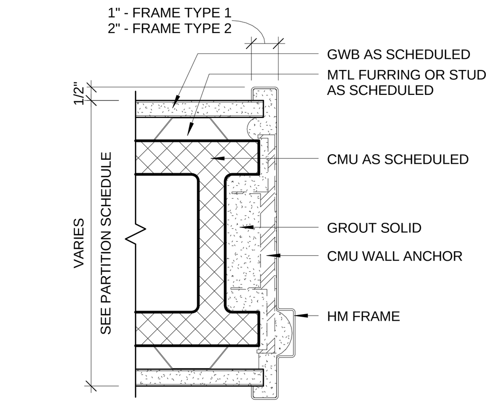
D10 JAMB DETAIL - GWB/INSUL/CONC - HM FRAME
3" = 1'-0"



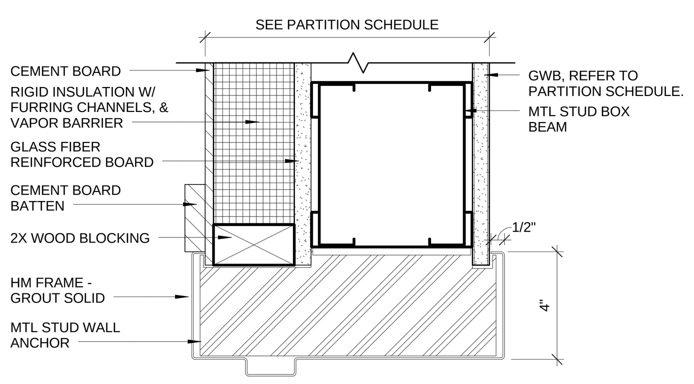
D11 JAMB DETAIL - GWB - HM FRAME
3" = 1'-0"



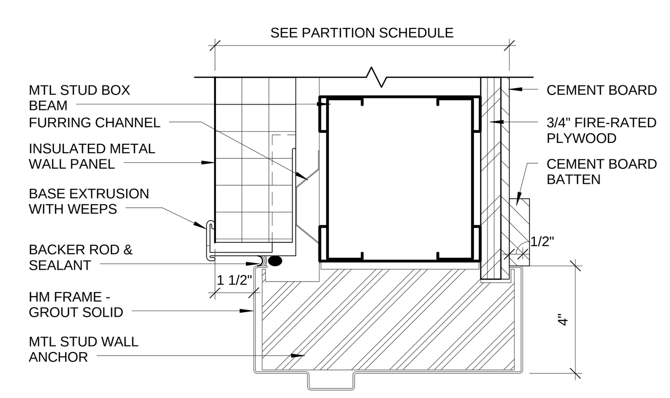
D12 JAMB DETAIL - GWB/STUD/STUD/GWB - HM FRAME
3" = 1'-0"



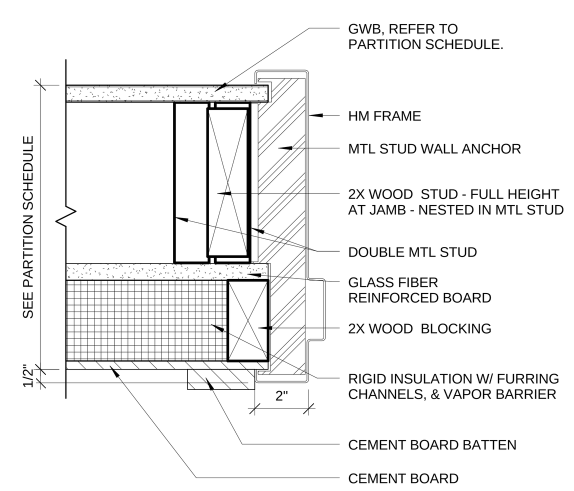
D13 JAMB DETAIL - GWB/CMU/GWB - HM FRAME
3" = 1'-0"



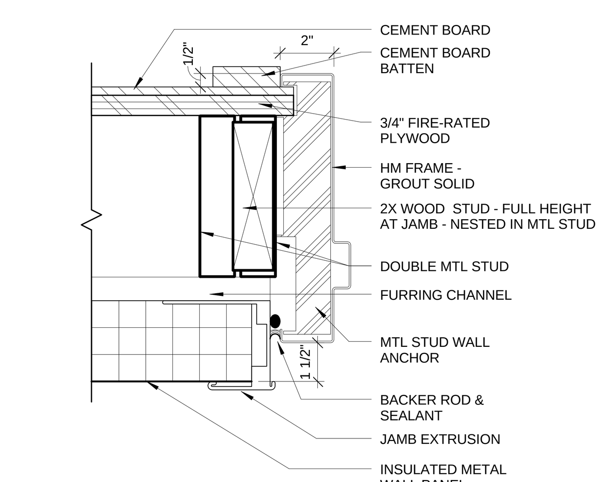
E1 HEAD DETAIL - CEMENT BOARD/GWB - HM FRAME
3" = 1'-0"



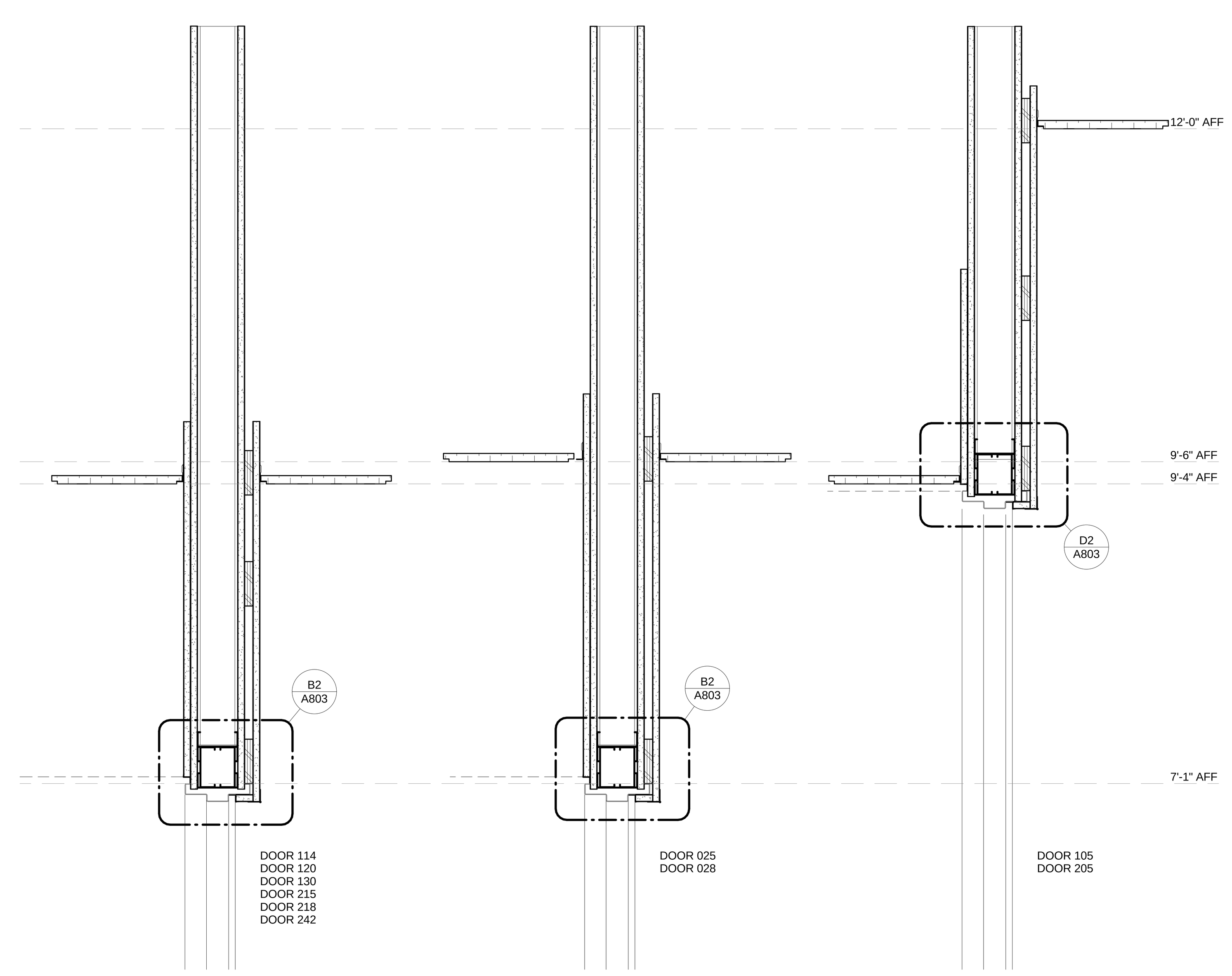
E5 HEAD DETAIL - METAL PANEL/CEMENT BOARD - HM FRAME
3" = 1'-0"



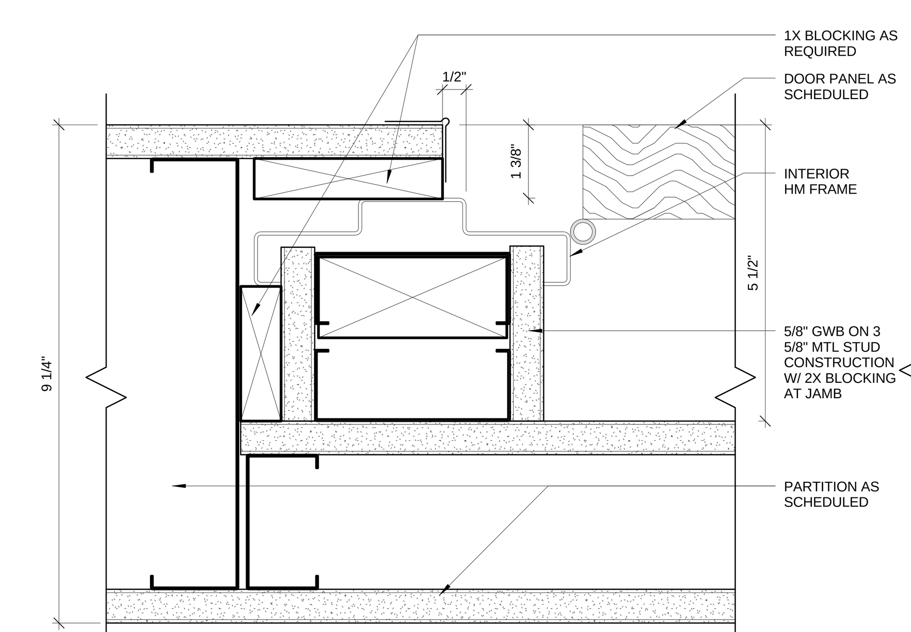
G1 JAMB DETAIL - CEMENT BOARD/GWB - HM FRAME
3" = 1'-0"



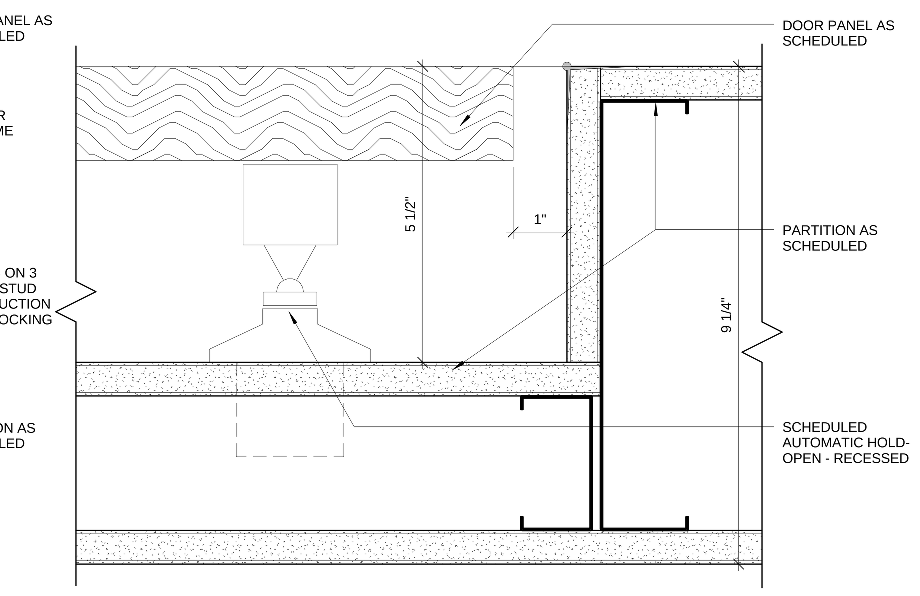
G5 JAMB DETAIL - METAL PANEL/CEMENT BOARD - HM FRAME
3" = 1'-0"



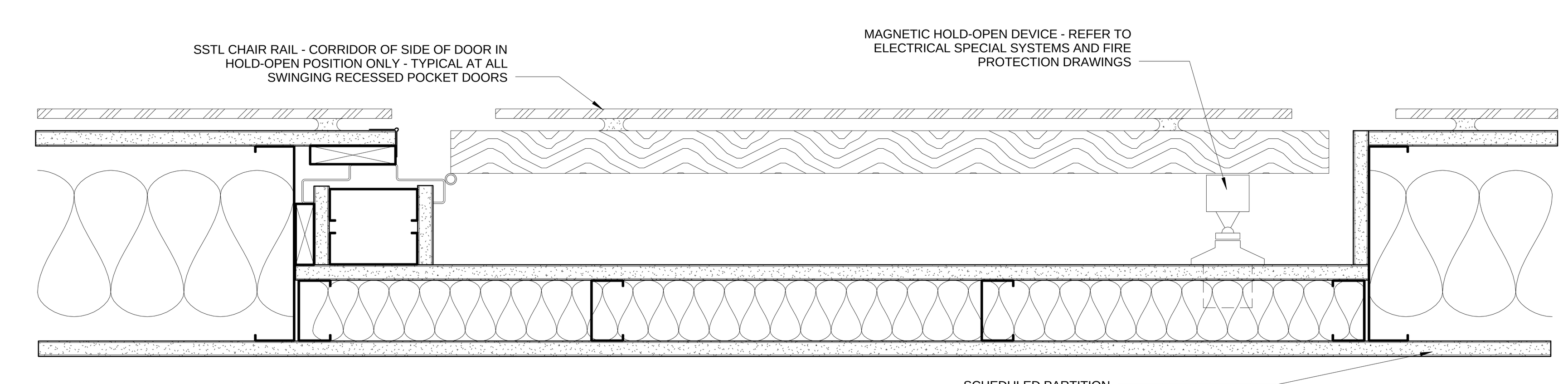
1 SECTION DETAILS - TYPICAL AT RECESSED DOOR HEAD CONDITIONS
1 1/2" = 1'-0"



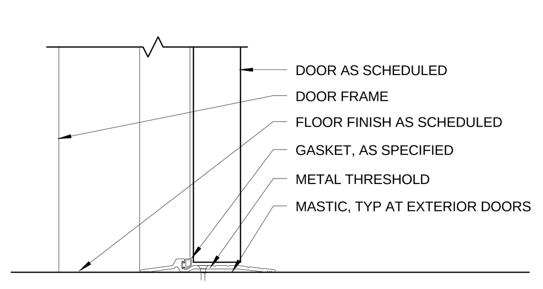
G10 RECESSED SWING DOOR JAMB - HINGE SIDE
6" = 1'-0"



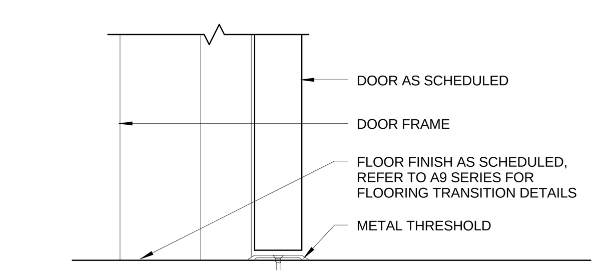
G12 RECESSED SWING DOOR JAMB - LATCH SIDE
6" = 1'-0"



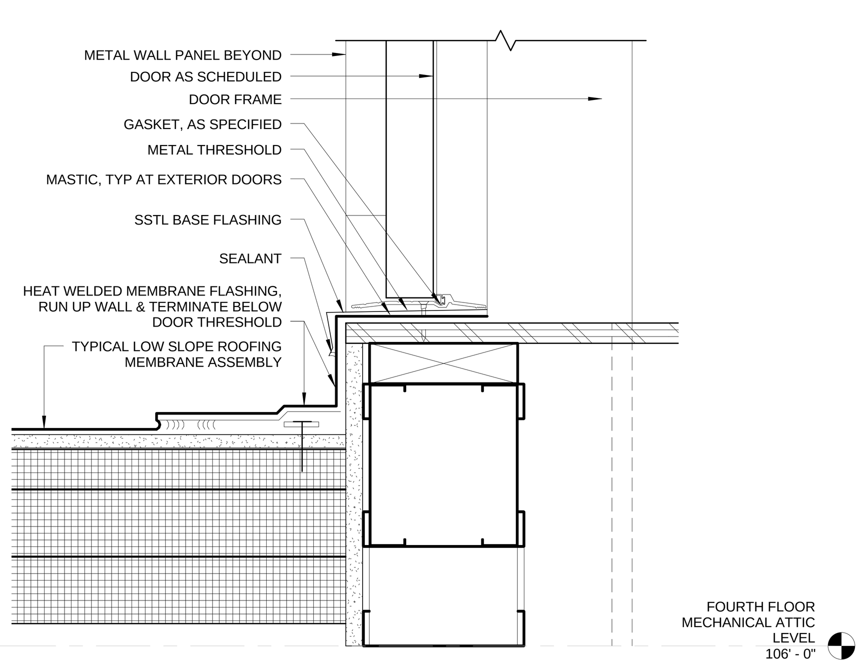
H11 PLAN DETAIL AT TYPICAL RECESSED DOOR POCKET
3" = 1'-0"



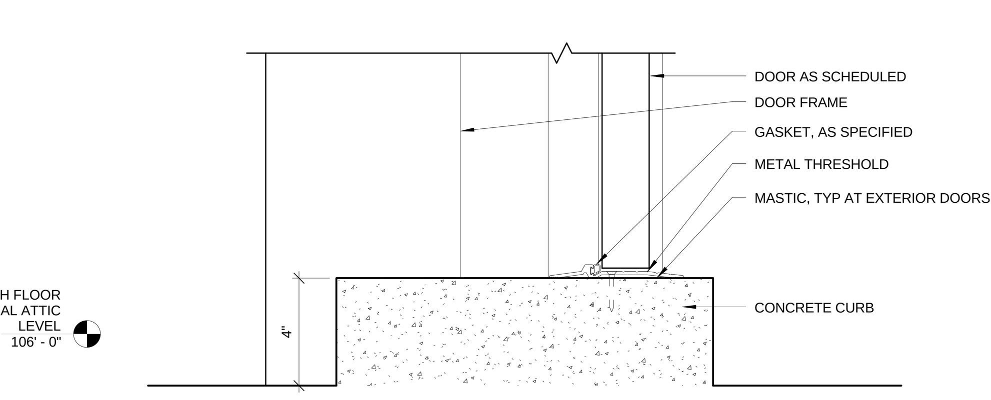
J1 THRESHOLD DETAIL - EXTERIOR
3" = 1'-0"



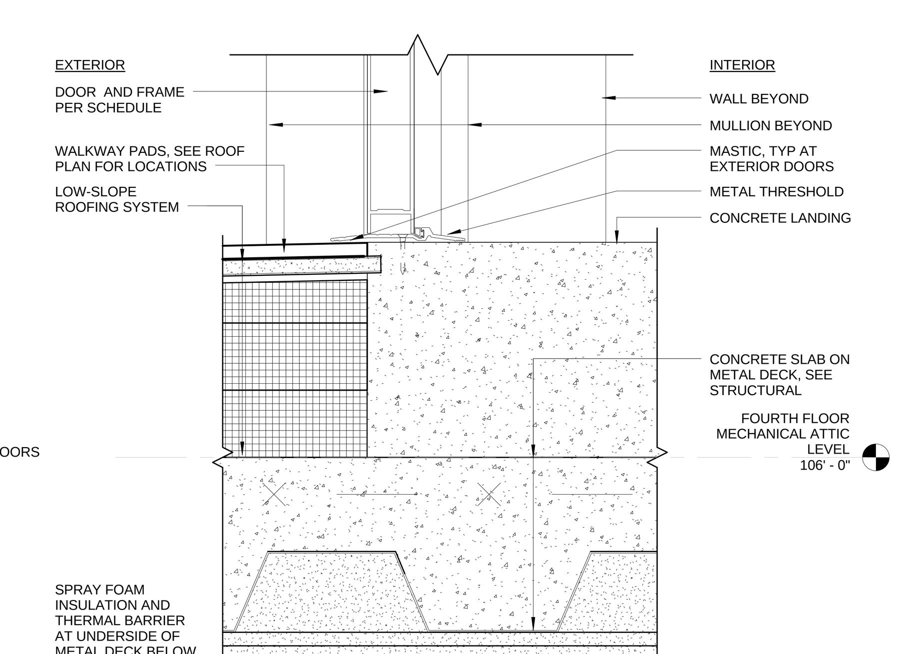
J5 THRESHOLD DETAIL - INTERIOR
3" = 1'-0"



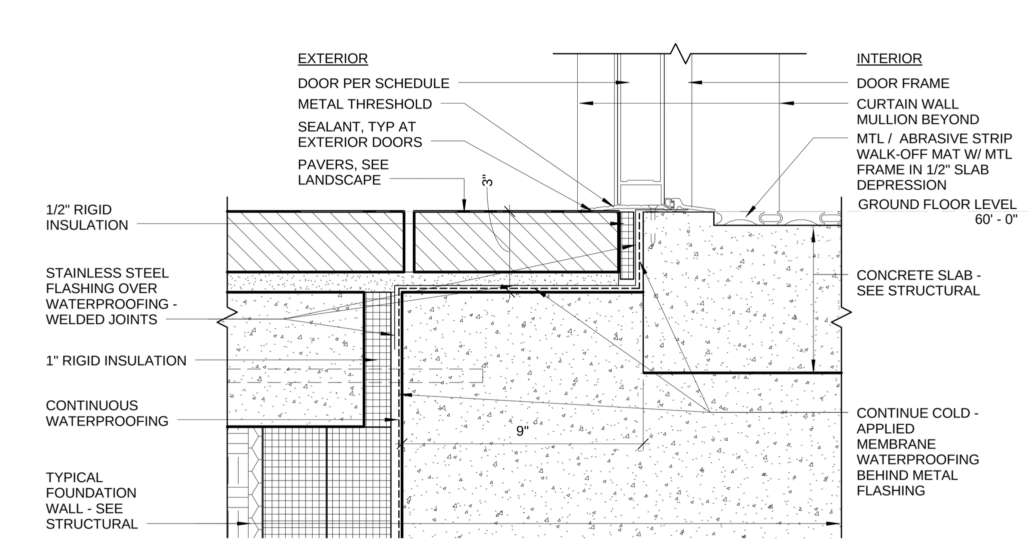
M1 THRESHOLD DETAIL - EXTERIOR AT ROOF
3" = 1'-0"



M5 THRESHOLD DETAIL - EXTERIOR ON CURB
3" = 1'-0"



M6 DOOR THRESHOLD AT MECH ATTIC VEST & ROOF
3" = 1'-0"



M9 DOOR THRESHOLD AT VEST AND PAVERS
3" = 1'-0"

drawing title	DOOR FRAME DETAILS
REVISIONS	
mark / date / description	11-21-2012 Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

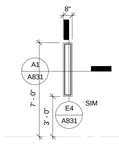
project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

volume	1 of 2
date	11-21-2012
scale	As indicated
drawn by	BGA/KEC
approved by	RM/JBR
drawing no.	A803

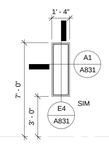
C:\Revit Local Files\1393 SCSU New Academic and Laboratory Building A12 Central_Graph.rvt 11/21/2012 12:37:00 PM

NOTE :
1 - 2-HOUR FIRE-RATED GLAZING ASSEMBLY WITH 120 MIN GLAZING & 90 MIN DOOR IS REQUIRED AT EGRESS STAIR ST3 - REFER TO PLANS AND CODE PLANS
2 - FROSTED GLASS REQUIRED AT ROOMS 128 & 238



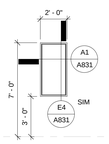
B1 IGF - TYPE H - ATRIUM
1/4" = 1'-0"

NOTE :
1 - 2-HOUR FIRE-RATED GLAZING ASSEMBLY WITH 120 MIN GLAZING & 90 MIN DOOR IS REQUIRED AT EGRESS STAIR ST3 - REFER TO PLANS AND CODE PLANS
2 - FROSTED GLASS REQUIRED AT ROOMS 128 & 238

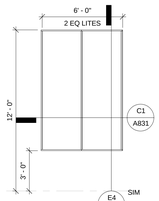


B2 IGF - TYPE J - ATRIUM
1/4" = 1'-0"

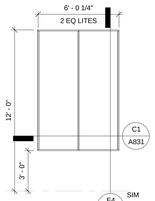
NOTE :
1 - 2-HOUR FIRE-RATED GLAZING ASSEMBLY WITH 120 MIN GLAZING & 90 MIN DOOR IS REQUIRED AT EGRESS STAIR ST3 - REFER TO PLANS AND CODE PLANS
2 - FROSTED GLASS REQUIRED AT ROOMS 128 & 238



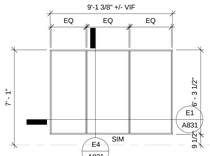
B3 IGF - TYPE K - ATRIUM
1/4" = 1'-0"



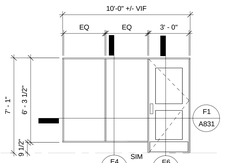
B4 IGF - 026.1 - CORRIDOR
1/4" = 1'-0"



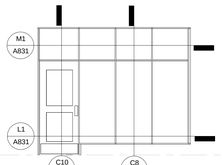
B5 IGF - 026.2 - CORRIDOR
1/4" = 1'-0"



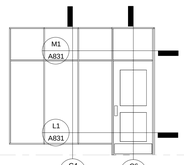
B6 IGF - 038 - INSTRUMENT LAB
1/4" = 1'-0"



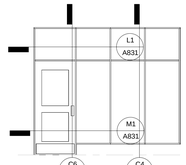
B8 IGF - 040 - TECH STAFF
1/4" = 1'-0"



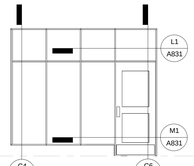
B9 IGF - 043 - TECH STAFF
1/4" = 1'-0"



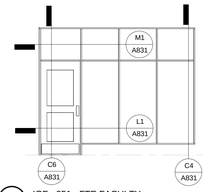
B11 IGF - 045 - FTE FACULTY
1/4" = 1'-0"



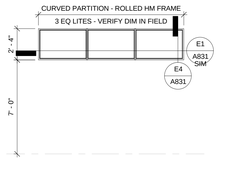
B13 IGF - 047 - FTE FACULTY
1/4" = 1'-0"



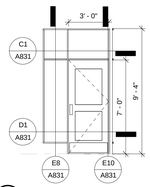
B14 IGF - 049 - FTE FACULTY
1/4" = 1'-0"



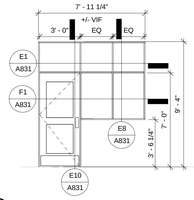
D1 IGF - 051 - FTE FACULTY
1/4" = 1'-0"



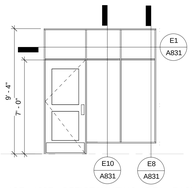
D2 IGF - 105 - CORRIDOR - SOUTH (4 LOCATIONS)
1/4" = 1'-0"



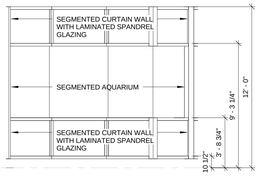
D4 IGF - 108 - OFFICE WAITING - NORTH
1/4" = 1'-0"



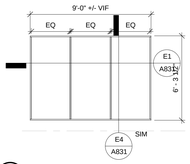
D5 IGF - 108 - OFFICE WAITING - NORTH (4 LOCATIONS)
1/4" = 1'-0"



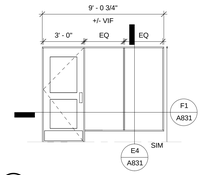
D7 IGF - 108F - OFFICE WAITING AREA - EAST
1/4" = 1'-0"



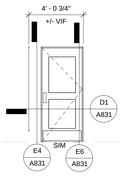
D8 IGF - CURTAINWALL - 112 KNUCKLE - AQUARIUM ELEVATION
1/4" = 1'-0"



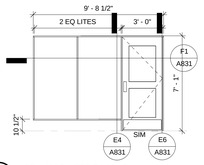
D10 IGF - 111 - SALTWATER AQUARIUM
1/4" = 1'-0"



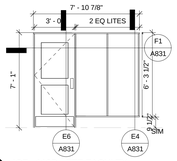
D12 IGF - 118A - FTE FACULTY - SOUTH
1/4" = 1'-0"



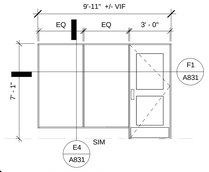
D13 IGF - 118B - FTE FACULTY
1/4" = 1'-0"



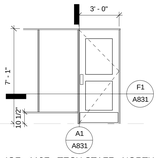
D14 IGF - 118C - FTE FACULTY
1/4" = 1'-0"



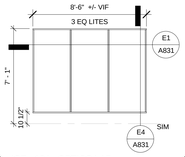
E1 IGF - 118D - FTE FACULTY
1/4" = 1'-0"



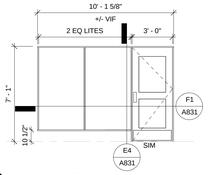
E2 IGF - 118E - FTE FACULTY
1/4" = 1'-0"



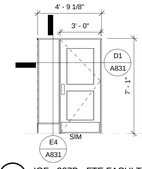
E4 IGF - 118F - TECH STAFF - NORTH
1/4" = 1'-0"



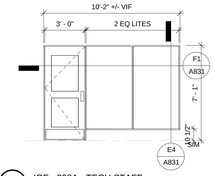
E5 IGF - 124 - OPTICS LAB
1/4" = 1'-0"



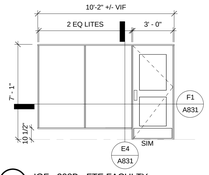
E6 IGF - 207A - FTE FACULTY
1/4" = 1'-0"



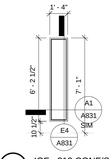
E8 IGF - 207B - FTE FACULTY
1/4" = 1'-0"



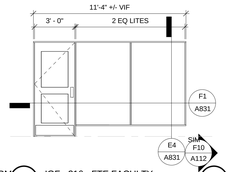
E9 IGF - 208A - TECH STAFF
1/4" = 1'-0"



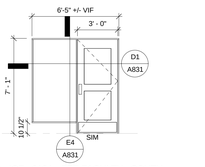
E11 IGF - 208B - FTE FACULTY
1/4" = 1'-0"



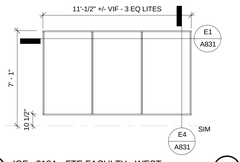
E12 IGF - 212 CONF/SEMINAR RM
1/4" = 1'-0"



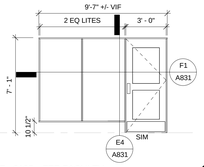
E13 IGF - 216 - FTE FACULTY
1/4" = 1'-0"



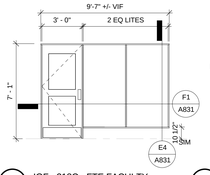
E14 IGF - 218A - FTE FACULTY - SOUTH
1/4" = 1'-0"



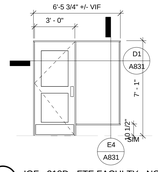
F1 IGF - 218A - FTE FACULTY - WEST
1/4" = 1'-0"



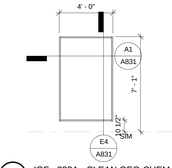
F2 IGF - 218B - FTE FACULTY
1/4" = 1'-0"



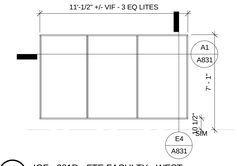
F4 IGF - 218C - FTE FACULTY
1/4" = 1'-0"



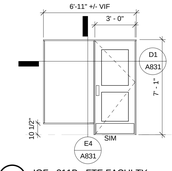
F5 IGF - 218D - FTE FACULTY - NORTH
1/4" = 1'-0"



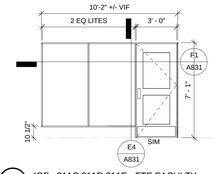
F6 IGF - 233A - CLEAN GEO-CHEM
1/4" = 1'-0"



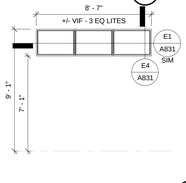
F7 IGF - 281D - FTE FACULTY - WEST
1/4" = 1'-0"



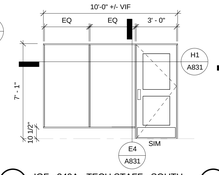
F8 IGF - 311B - FTE FACULTY
1/4" = 1'-0"



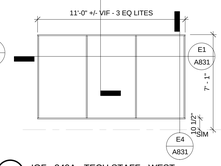
F9 IGF - 311C,311D,311E - FTE FACULTY
1/4" = 1'-0"



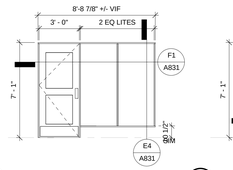
F11 IGF - 334 - ANALYTICAL CHEMISTRY
1/4" = 1'-0"



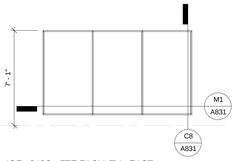
F12 IGF - 340A - TECH STAFF - SOUTH
1/4" = 1'-0"



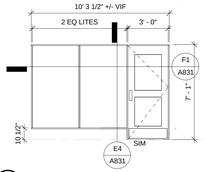
F13 IGF - 340A - TECH STAFF - WEST
1/4" = 1'-0"



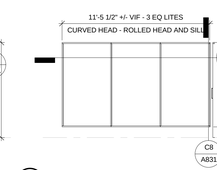
G1 IGF - 340B - FTE FACULTY
1/4" = 1'-0"



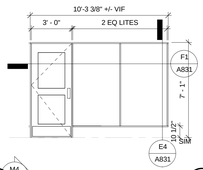
G2 IGF - 340C - FTE FACULTY - EAST
1/4" = 1'-0"



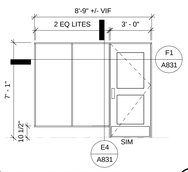
G4 IGF - 340C - FTE FACULTY - SOUTH
1/4" = 1'-0"



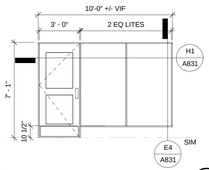
G5 IGF - 340D - FTE FACULTY - EAST
1/4" = 1'-0"



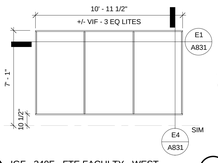
G7 IGF - 340D - FTE FACULTY - NORTH
1/4" = 1'-0"



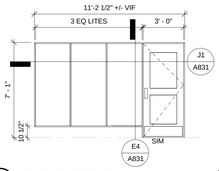
G8 IGF - 340E - FTE FACULTY
1/4" = 1'-0"



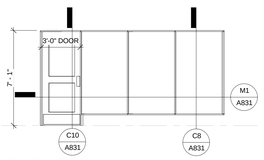
G9 IGF - 340F - FTE FACULTY - NORTH
1/4" = 1'-0"



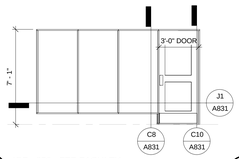
G10 IGF - 340F - FTE FACULTY - WEST
1/4" = 1'-0"



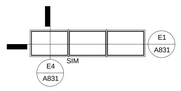
G12 IGF - 342 - FTE FACULTY
1/4" = 1'-0"



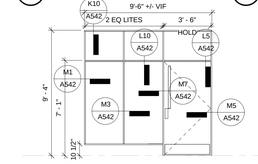
G13 IGF - 352 - FTE FACULTY
1/4" = 1'-0"



J1 IGF - 356 - FTE FACULTY
1/4" = 1'-0"

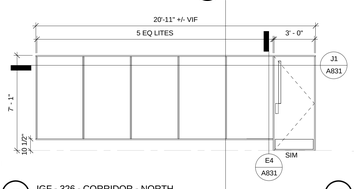


J3 IGF - 358 - GRADUATE STUDENTS
1/4" = 1'-0"

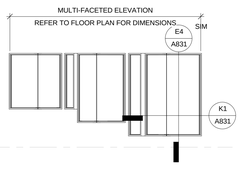


NOTE : 2-HOUR FIRE-RATED GLAZING ASSEMBLY WITH 120 MIN GLAZING & 90 MIN DOOR IS REQUIRED AT EGRESS STAIR ST1 - REFER TO PLANS AND CODE PLANS

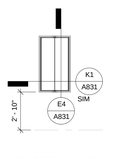
J4 IGF - ST1c / ST1d - STAIR TOWER
1/4" = 1'-0"



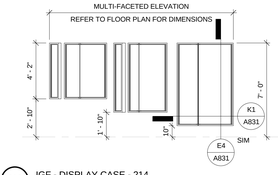
J5 IGF - 326 - CORRIDOR - NORTH
1/4" = 1'-0"



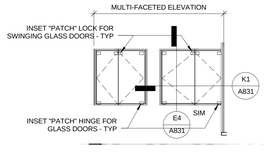
J7 IGF - DISPLAY CASE - 026
1/4" = 1'-0"



J9 IGF - DISPLAY CASE - 116
1/4" = 1'-0"

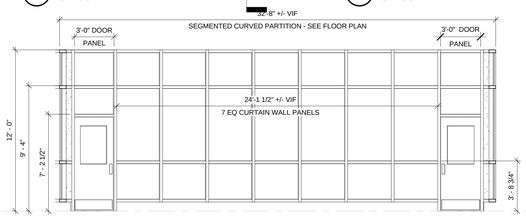


J10 IGF - DISPLAY CASE - 214
1/4" = 1'-0"

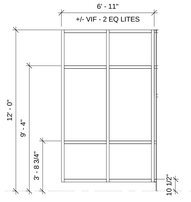


J12 IGF - DISPLAY CASE - 317
1/4" = 1'-0"

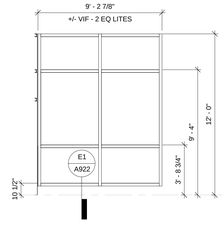
J14 IGF - 321 - NORTH END / WEST ELEVATION
1/4" = 1'-0"



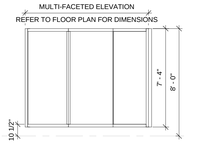
K5 IGF - CURTAINWALL - 222 EAST
1/4" = 1'-0"



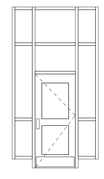
K8 IGF - CURTAINWALL - 222 NORTH
1/4" = 1'-0"



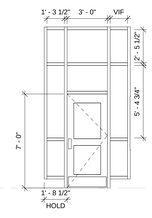
K10 IGF - CURTAINWALL - 222 SOUTH
1/4" = 1'-0"



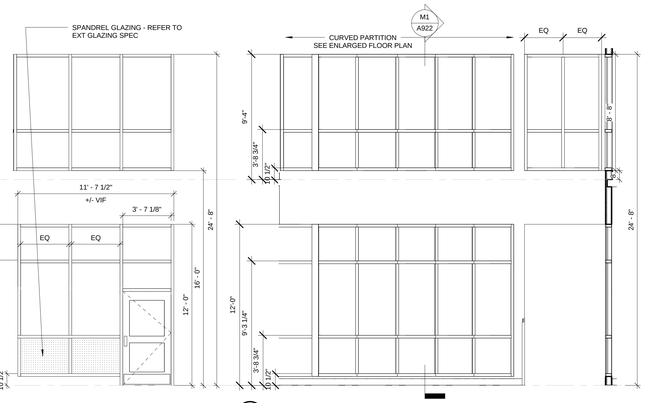
K12 IGF - CURTAINWALL - 317 EAST
1/4" = 1'-0"



K13 IGF - CURTAINWALL - 349
1/4" = 1'-0"

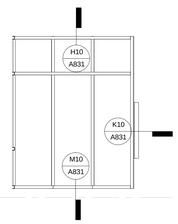


K14 IGF - CURTAINWALL - 247
1/4" = 1'-0"

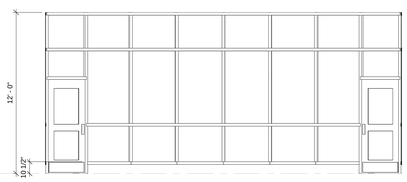


M1 IGF - CURTAINWALL - 110 EAST
1/4" = 1'-0"

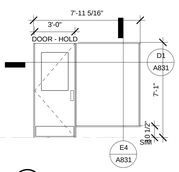
M3 IGF CURTAINWALL 110 NORTH
1/4" = 1'-0"



M5 IGF - CURTAINWALL - 317B SOUTH - (317A EAST SIM)
1/4" = 1'-0"

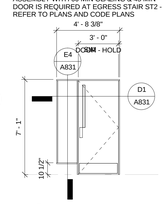


M7 IGF - CURTAINWALL - RM 319 SOUTHEAST
1/4" = 1'-0"

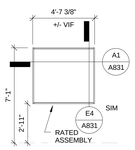


M10 IGF - 326 CORR. SOUTH
1/4" = 1'-0"

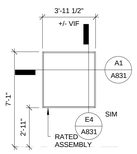
NOTE : 1-HOUR FIRE-RATED GLAZING ASSEMBLY WITH 60 MIN GLAZING & 45 MIN DOOR IS REQUIRED AT EGRESS STAIR ST2 - REFER TO PLANS AND CODE PLANS



M12 IGF - ST2c - STAIR
1/4" = 1'-0"



M13 IGF - STAIR 2 - EAST ELEV - N
1/4" = 1'-0"



M14 IGF - STAIR 2 - EAST ELEV - S
1/4" = 1'-0"

project title
INTERIOR GLAZED FRAME ELEVATIONS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

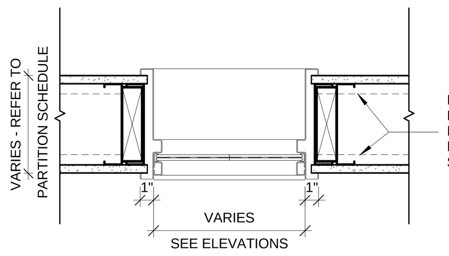
drawing prepared by
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD file: 1393
project no: BI-RS-283

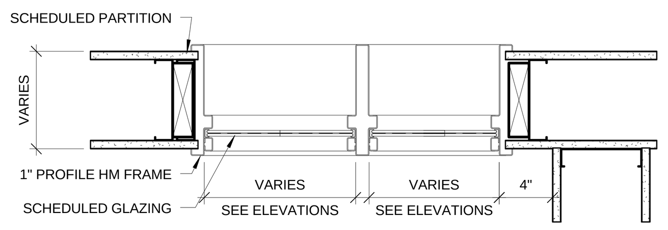
volume 1 of 2
date 11-21-2012
1/4" = 1'-0"
drawn by BGA
checked by RM/JBR
drawing no. A830

Clifford Lloyd Elect 291 ECSU New Academic and Laboratory Building A13 Central_Cryo.rvt 1/21/2012 2:28:51 PM

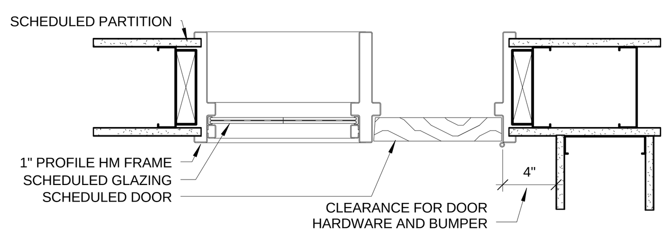


NOTE : REFER TO PARTITION TYPES FOR REQUIRED FIRE RESISTANT RATING AND REQUIREMENTS FOR FIRE RESISTANT RATED FRAME, ADDITIONAL GWB LAYERS AND SEALANTS

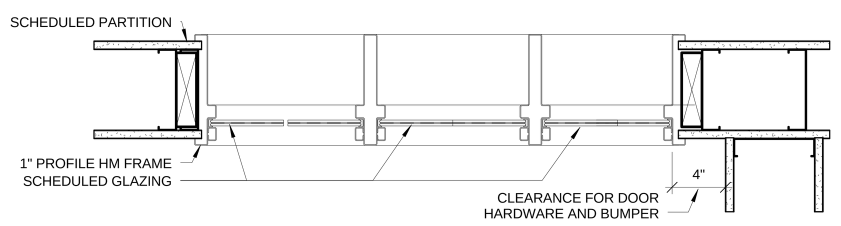
A1 INTERIOR GLAZED FRAME HORIZONTAL CONDITION - # 1
1 1/2" = 1'-0"



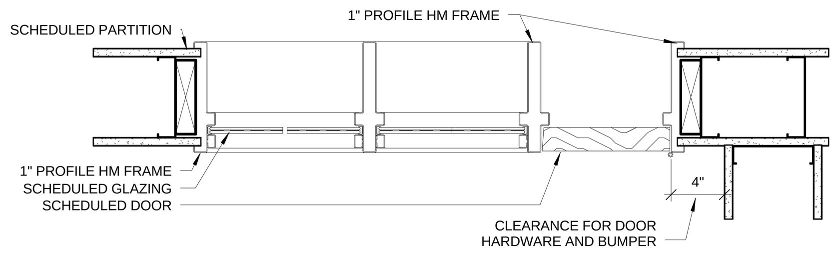
C1 INTERIOR GLAZED FRAME HORIZONTAL CONDITION - # 2
1 1/2" = 1'-0"



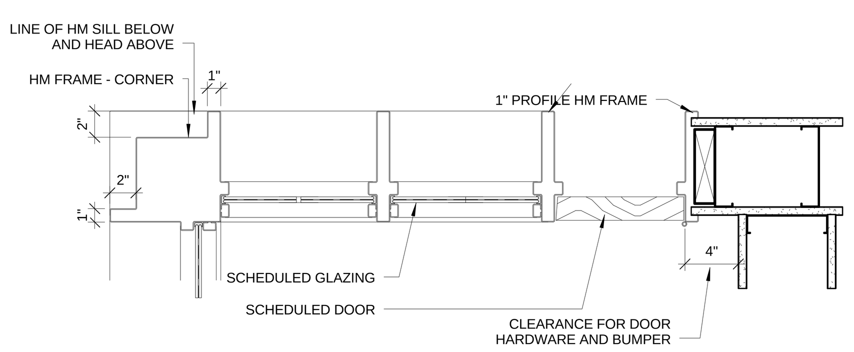
D1 INTERIOR GLAZED FRAME HORIZONTAL CONDITION - # 3
1 1/2" = 1'-0"



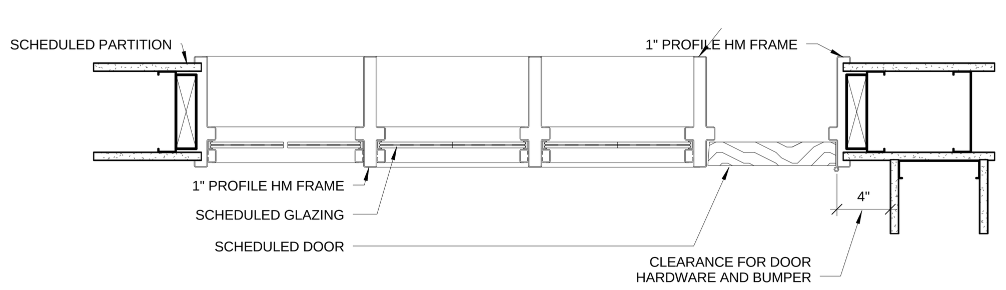
E1 INTERIOR GLAZED FRAME HORIZONTAL CONDITION - # 4
1 1/2" = 1'-0"



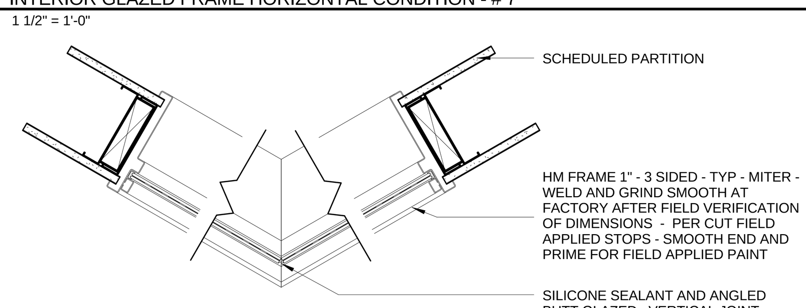
F1 INTERIOR GLAZED FRAME HORIZONTAL CONDITION - # 5
1 1/2" = 1'-0"



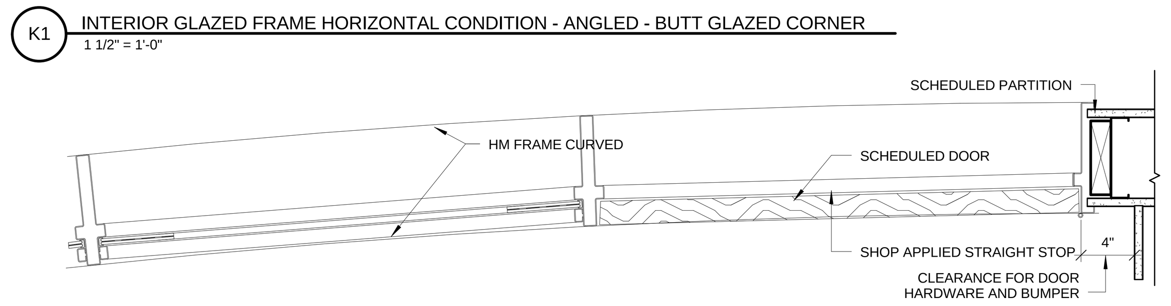
H1 INTERIOR GLAZED FRAME HORIZONTAL CONDITION - # 6
1 1/2" = 1'-0"



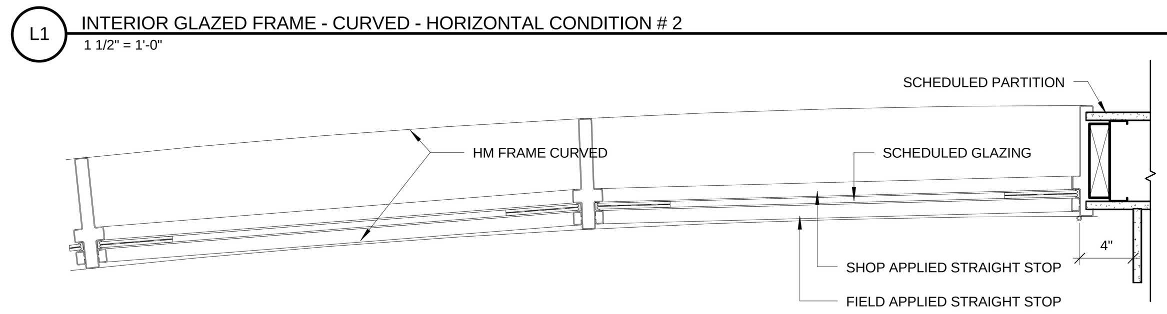
J1 INTERIOR GLAZED FRAME HORIZONTAL CONDITION - # 7
1 1/2" = 1'-0"



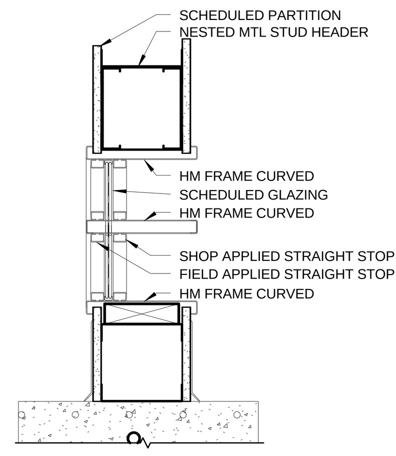
K1 INTERIOR GLAZED FRAME HORIZONTAL CONDITION - ANGLED - BUTT GLAZED CORNER
1 1/2" = 1'-0"



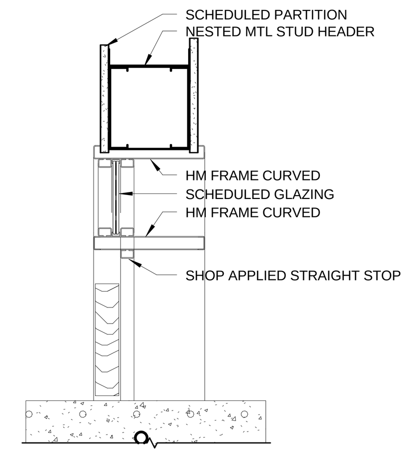
L1 INTERIOR GLAZED FRAME - CURVED - HORIZONTAL CONDITION # 2
1 1/2" = 1'-0"



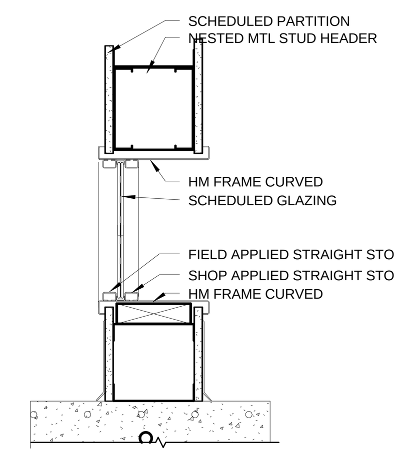
M1 INTERIOR GLAZED FRAME - CURVED - HORIZONTAL CONDITION # 1
1 1/2" = 1'-0"



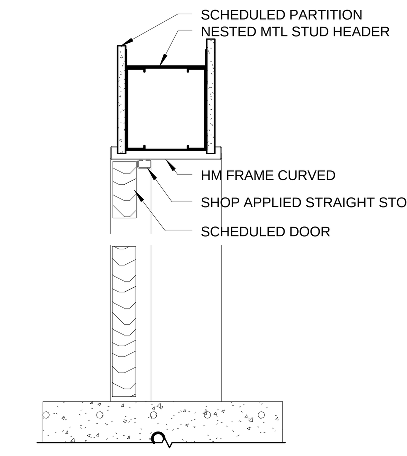
C4 INTERIOR GLAZED FRAME - CURVED - VERTICAL # 1
1 1/2" = 1'-0"



C6 INTERIOR GLAZED FRAME - CURVED - VERTICAL # 2
1 1/2" = 1'-0"



C8 INTERIOR GLAZED FRAME - CURVED - VERTICAL # 3
1 1/2" = 1'-0"



C10 INTERIOR GLAZED FRAME - CURVED - VERTICAL # 4
1 1/2" = 1'-0"

INTERIOR GLAZING - GENERAL NOTES

1 - ALL GLAZING TO BE SAFETY GLASS UNLESS NOTED OTHERWISE - REFER TO SPECIFICATIONS

2 - REFER TO SPECIFICATION FOR GLASS TYPES

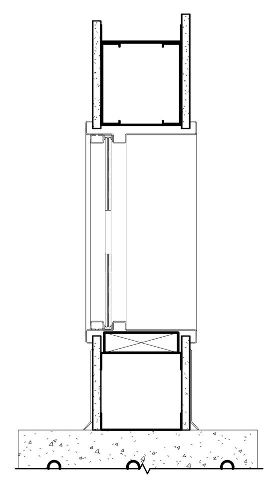
3 - ALL PRIVATE OFFICES (RM # **040, 043, 045, 047, 049, 051, 108A, 108B, 108C, 108D, 118A, 118B, 118C, 118D, 118E, 118F, 207A, 207B, 208A, 208B, 216, 281A, 218B, 218C, 218D, 311B, 311C, 311D, 311E, 340A, 340B, 340C, 340D, 340E, 340F, 352, 356**) ALL CONFERENCE AND CLASSROOMS (**210, 212, 222, 319**) TO BE GRADUATED FRIT APPLIED FILM ON ALL GLASS IN FRAMES AND DOORS.

4- ALL GLASS IN FRAME TYPES "H" - "J" - "K" IN **EGRESS STAIR 3** TO BE 2 HOUR RATED GLASS AND FRAME ASSEMBLIES - SEE CODE PLANS

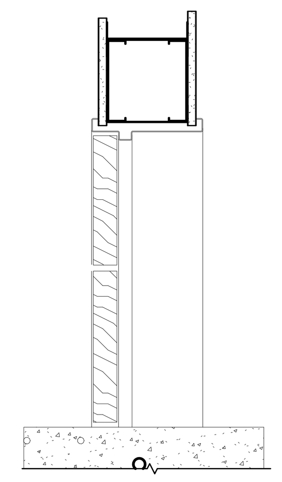
5 - ALL GLASS IN FRAME TYPES "H" - "J" - "K" IN ROOMS **128 & 238** TO HAVE FRIT APPLIED FILM - (FROSTED GLASS)

6 - ALL GLASS IN FRAME TYPES "H" - "J" - "K" IN ROOM **032** TO HAVE ACOUSTIC GLAZING WITH AN STC RATING OF >50 ; ACOUSTIC GLASS SYSTEM TO BE ; 1/4" LAMINATED - 4" AIR SPACE - 1/2" LAMINATED - STC 53 (UNSEALED) - SEE SPECIFICATIONS

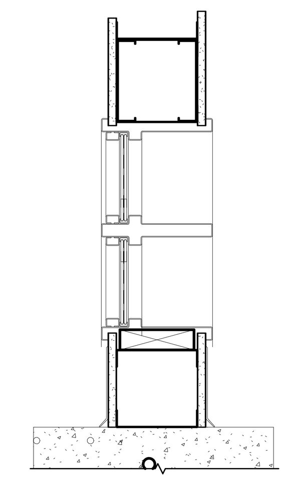
INTERIOR GLAZING - GENERAL NOTES
1/16" = 1'-0"



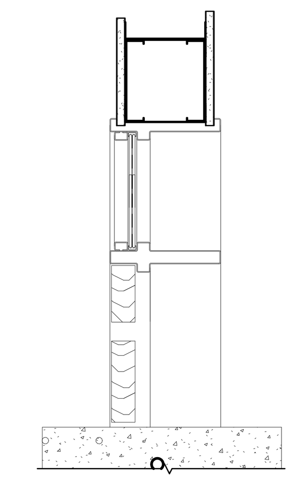
E4 INTERIOR GLAZED FRAME VERTICAL CONDITION - # 1
1 1/2" = 1'-0"



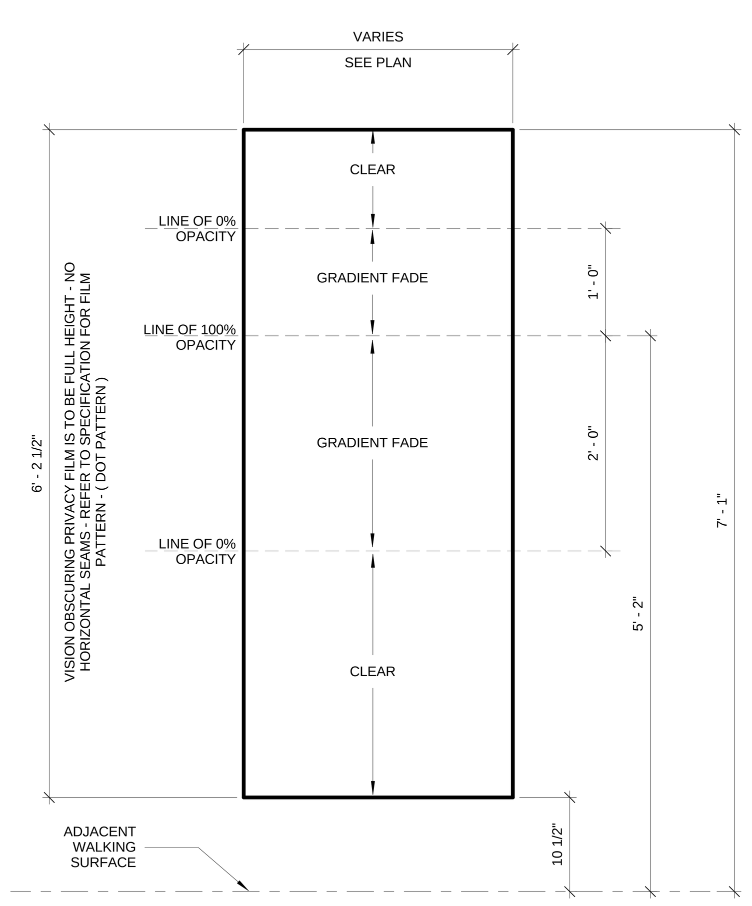
E6 INTERIOR GLAZED FRAME VERTICAL CONDITION - # 2
1 1/2" = 1'-0"



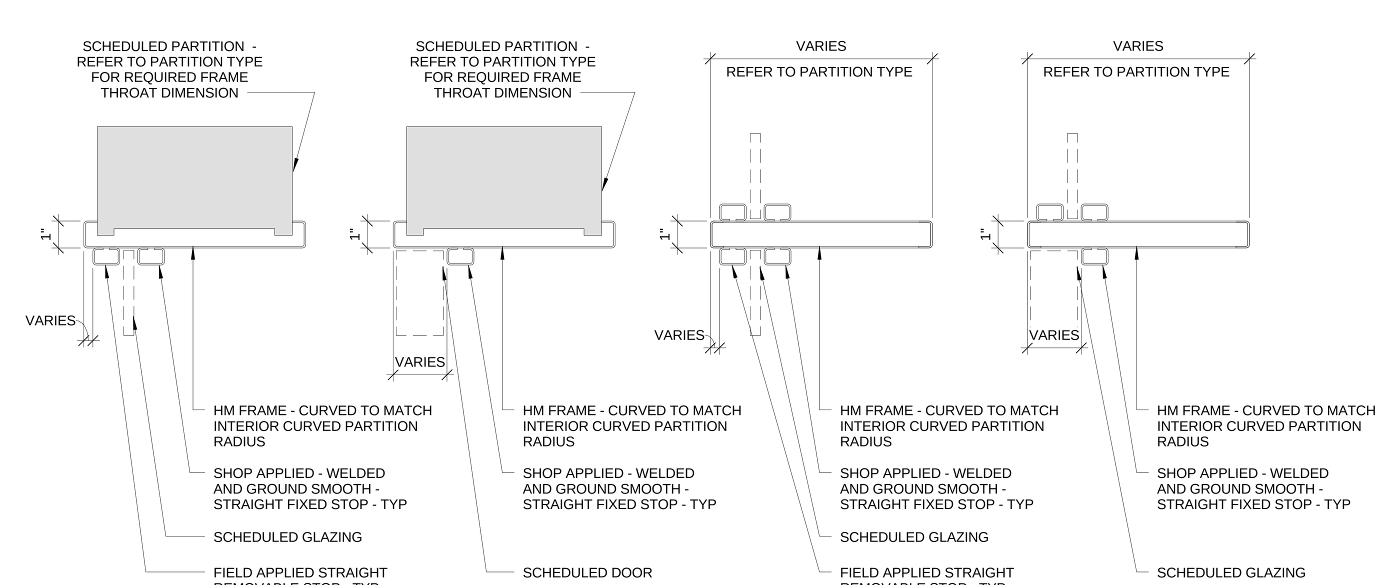
E8 INTERIOR GLAZED FRAME VERTICAL CONDITION - # 3
1 1/2" = 1'-0"



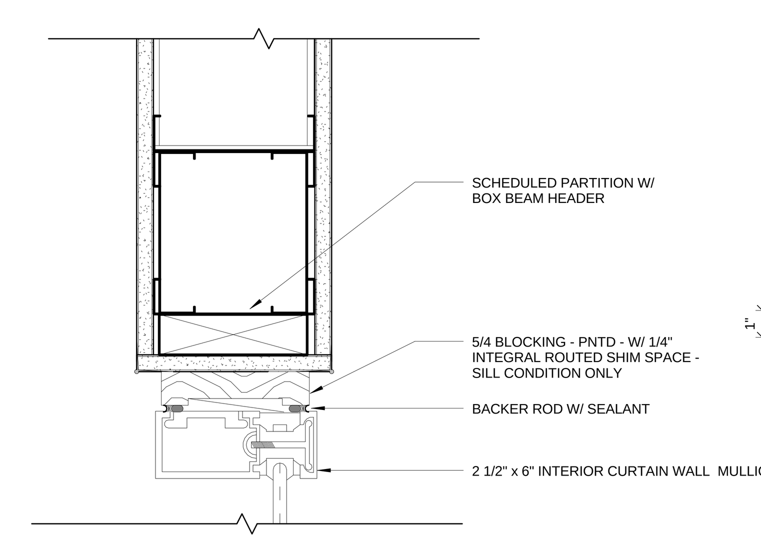
E10 INTERIOR GLAZED FRAME VERTICAL CONDITION - # 4
1 1/2" = 1'-0"



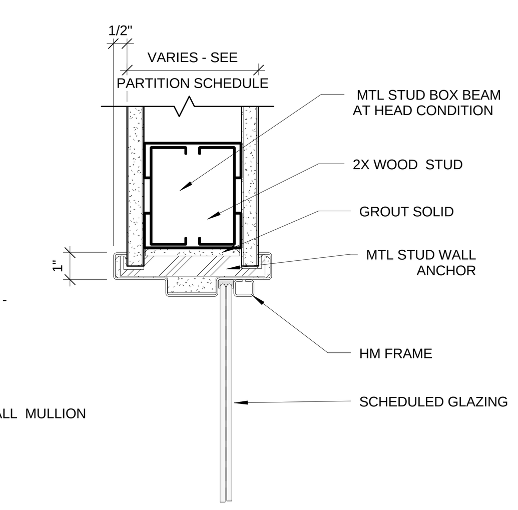
J4 DECORATIVE FILM OVERLAY PATTERN ELEVATION - INTERIOR GLAZING
1" = 1'-0"



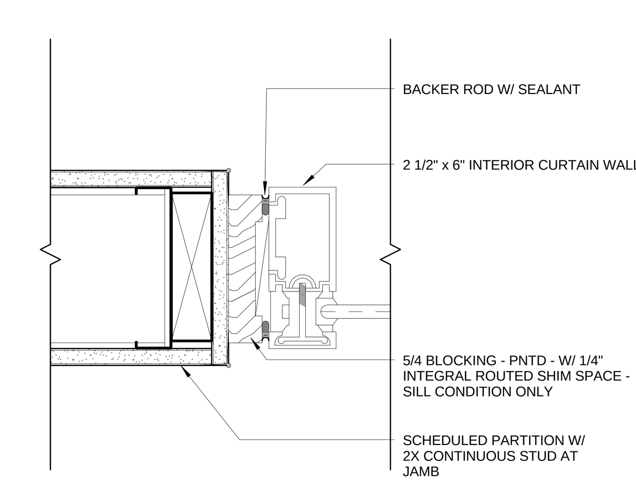
M5 ROLLED HM FRAME DETAILS AT GLAZED FRAME AND DOOR FRAME CONDITIONS
3" = 1'-0"



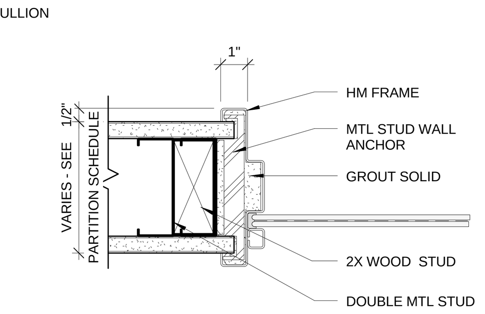
H10 INTERIOR CURTAIN WALL HEAD- TYP
3" = 1'-0"



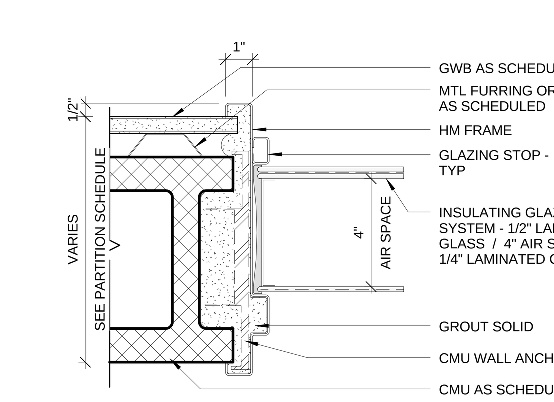
H12 HM FRAME - HEAD DETAIL - TYP
3" = 1'-0"



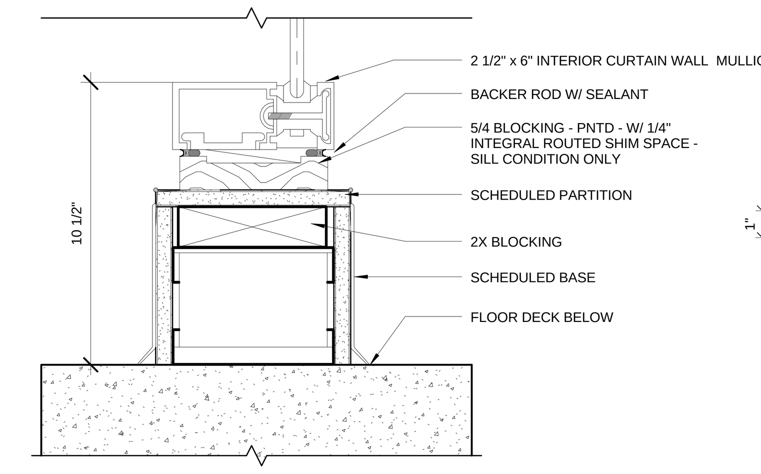
K10 INTERIOR CURTAIN WALL JAMB- TYP
3" = 1'-0"



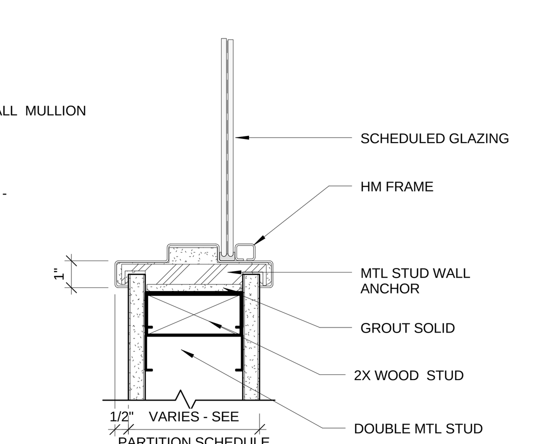
K12 HM FRAME - JAMB DETAIL - TYP
3" = 1'-0"



L14 JAMB DETAIL - ACOUSTIC GLASS - HEAD AND SILL SIM
3" = 1'-0"



M10 INTERIOR CURTAIN WALL SILL - TYP
3" = 1'-0"



M12 HM FRAME - SILL DETAIL - TYP
3" = 1'-0"

drawing title: INTERIOR GLAZED FRAME DETAILS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

volume: 1 of 2
date: 11-21-2012
scale: As indicated
drawn by: BGA
approved by: RM/JBR
drawing no. A831

C:\Revit Local Files\1393 SCSU New Academic and Laboratory Building A12 Central_Graph.rvt 11/21/2012 12:39:20 PM

ROOM FINISH SCHEDULE

TAG	PROGRAM NUMBER	NAME	FLOOR		BASE		CEILING		NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL		NOTES
			MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	
MECHANICAL PIT																	
009A		ELEVATOR MACHINE RM	CONC	SEALED	RWB	-	CONC	PNTD	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	
LOWER LEVEL																	
001		LOADING DOCK CORRIDOR	CONC	SEALED	RWB			PNTD	GWB	PNTD	GWB	PNTD	GWB	PNTD	GWB	PNTD	
002		CORRIDOR	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
003		MAIN ELECTRICAL	CONC	SEALED	RWB	-	CONC	PNTD	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	
004	S18	TANK STORAGE	CONC	SEALED	RWB	-	CONC	PNTD	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	
005		EMERGENCY ELECTRICAL	CONC	SEALED	RWB	-	CONC	PNTD	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	
006	S16	RECYCLING STORAGE ROOM	CONC	SEALED	RWB	-	CONC	PNTD	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	
007		MEP	CONC	SEALED	RWB	-	CONC	PNTD	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	
007A		ELEV MACHINE ROOM	CONC	SEALED	RWB	-	CONC	PNTD	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	
007B		MEZZANINE	CONC	SEALED	RWB	-	CONC	PNTD	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	
008		CONTROL ROOM	CONC	SEALED	RWB	-	CONC	PNTD	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	
009		MEP	CONC	SEALED	RWB	-	CONC	PNTD	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	
009B		MDF	CONC	SEALED	RWB	-	CONC	PNTD	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	
010		MEP	CONC	SEALED	RWB	-	GWB-4	PNTD	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	SEE CEILING DETAIL - A900 SERIES
011		AV CLOSET	CONC	SEALED	RWB	-	CONC	PNTD	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	
012		FIRE PUMP ROOM	CONC	SEALED	RWB	-	CONC	PNTD	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	
013	P08	NANOTECHNOLOGY LABORATORY	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
014		STORAGE	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
015	P08-1	PROJECT STORAGE / PREP LABORATORY	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
016		CUSTODIAL	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
017		STORAGE	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
018		MEN	CT	CT-1/2/3/4	CT	CT-1/2/3/4	ACP-1		CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	4 COLOR CUSTOM TILE PATTERN - SEE ELEVATIONS
019	P14	NTC MULTIPURPOSE SUPPORT/PREP	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
020		WOMEN	CT	CT-1/2/3/4	CT	CT-1/2/3/4	ACP-1		CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	4 COLOR CUSTOM TILE PATTERN - SEE ELEVATIONS
021		MEP	CONC	SEALED	RWB	-	CONC	PNTD	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	
022		CORRIDOR	RTF	R-1 / R-4	RWB		ACP-6/GWB	PNTD	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
023		SOUND LOCK	CONC	SEALED	RWB	-	CONC	PNTD	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	CONC-CMU	PNTD-1	
024		KNUCKLE LOUNGE	CONC - CPT	PC-1/2/3 - C-1	RWB		ACP-5	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	3 COLOR PATTERN - SEE 900 SERIES
025		CORRIDOR	RTF	R-1 / R-4	RWB		ACP-6/GWB	PNTD	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
026		CORRIDOR	CONC - CPT	PC-1/2/3 - C-1	RWB		ACP-5	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	3 COLOR PATTERN - SEE 900 SERIES
027	P15	NTC SPECIMEN PREP SPECIALIZED PROCESS	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
028		CORRIDOR	RTF	R-1 / R-4	RWB		ACP-6/GWB	PNTD	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
029	P11	NTC MICROTOMY	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
030		CORRIDOR	CONC - CPT	PC-1/2/3 - C-1	RWB		ACP-5	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	3 COLOR PATTERN - SEE 900 SERIES
031	P03	MATERIALS SCIENCE	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
032	P12	NTC SEM LAB	RTF	R-4	RWB	-	ACT-1	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	SEE CEILING DETAIL - A900 SERIES
033	P17	SHARED PREP LABORATORY	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
034	P13	NTC TEM LAB	RTF	R-4	RWB	-	ACT-1	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	SEE CEILING DETAIL - A900 SERIES
035		STORAGE	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
036	P16	NTC UTILITY ROOM	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
037	P01	HIGH RESOLUTION OPTICS	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
038	P10	NTC AFM / FIB INSTRUMENT LAB	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
039		ELECTRICAL	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
040	P25c	TECHNICAL STAFF	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
041		CUSTODIAL	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
042	P04	NANOMATERIALS	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
043	P25b	TECHNICAL STAFF	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
044		CORRIDOR	RTF	R-1 / R-4	RWB		ACP-6/GWB	PNTD	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
045	P21d	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
046		GRAD STUDENTS	CPT	C-1	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
047	P21c	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
048		LOUNGE	CPT	C-1	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
049	P21b	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
051	P21a	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
321B		ELEVATOR 2 DISPLAY	PWD	P.LAM					CT8-9-10/GWB	PNTD-1	GWB - GL	PNTD-1	GWB - GL	PNTD-1	GWB - GL	PNTD-1	SEE DETAIL FOR CT 8 - 9 - 10 PATTERN
321C		ELEVATOR 2 DISPLAY	PWD	P.LAM	RWB	-	GWB	PNTD	GWB - GL	PNTD-1	GWB - GL	PNTD	CT8-9-10/GWB	PNTD-1	GWB - GL	PNTD-1	SEE DETAIL FOR CT 8 - 9 - 10 PATTERN
ELEV 1		ELEVATOR	WOM	WOM-2	SS	-	LUMINOUS	-	SS	-	SS	-	SS	-	SS	-	
ELEV 2		ELEVATOR	RSF														
ST1a		EGRESS STAIR	CONC - RF	SEALED	RWB		GWB	PNTD	GF-CMU1&2	PNTD-1	GF-CMU1&2 2	PNTD-1	GF-CMU1&2	PNTD-1	GF-CMU1&2	PNTD-1	GROUND FACE CMU WALL
ST3a		EGRESS STAIR	CONC - RF	SEALED	RWB		GWB	PNTD	CONC	PNTD-1	CONC	PNTD-1	CONC	PNTD-1	CONC	PNTD-1	GROUND FACE CMU WALL
GROUND FLOOR LEVEL																	
101		CORRIDOR	WOM	WOM-1 / 2	PT	-	ACP-5 / CT	-	GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
103	V03	COASTAL & MARINE STUDIES	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
103A	V04	COASTAL & MARINE STUDIES PREP	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
104		WOMEN	CT	CT-1/2/3/4	CT	CT-1/2/3/4	ACP-1		CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	4 COLOR CUSTOM TILE PATTERN - SEE ELEVATIONS
105		CORRIDOR	CONC	PC-1/2/3	PT-RWB	PT-1	ACP-5	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	3 COLOR PATTERN - SEE 900 SERIES
106		MEN	CT	CT-1/2/3/4	CT	CT-1/2/3/4	ACP-1		CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	4 COLOR CUSTOM TILE PATTERN - SEE ELEVATIONS
107		ELECTRICAL	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
107A		ELECTRICAL	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
108		OFFICE WAITING AREA	CPT	C-1	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
108A		DEPARTMENT CHAIR	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
108B		DEPARTMENT CHAIR	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
108C		DEPARTMENT CHAIR	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
108D		OFFICE	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
108E		CORRIDOR	CPT	C-1	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
108F		BREAK ROOM	RTF	R-1 / R-4	RWB		ACP-6/GWB	PNTD	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
108G		COPY/ STORAGE	RTF	R-1 / R-4	RWB		ACP-6/GWB	PNTD	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
109	S01	GROUND FLOOR WET LAB / MUD ROOM	E	E-1	RWB		ACP-3 - GWB-3	PNTD - (GWB)	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	EPOXY PAINT AT WALLS
109A	V05	FIELD EQUIPMENT STORAGE	CONC	SEALED	RWB		ACP-1		GWB	PNTD	GWB	PNTD	GWB	PNTD	GWB	PNTD	
109B		SHOWER	CT	CT-1/2/3/4	CT	CT-1/2/3/4	ACP-1		CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	
110		CORRIDOR	CONC - PT	PC-1/2/3 - PT	PT-RWB	PT-1	ACP-5	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	3 COLOR PATTERN - SEE 900 SERIES / SEE H1-A921 FOR PNT NOTE - PT BASE AT EXTERIOR WALL BELOW CW
111	V06	SALTWATER AQUARIUM	E	E-1	RWB		ACP-3 - GWB-3	PNTD - (GWB)	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	EPOXY PAINT AT WALLS
111A	V08	AQUARIUM STORAGE	E	E-1	RWB		ACP-3 - GWB-3	PNTD - (GWB)	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	EPOXY PAINT AT WALLS
111B	V07	PHYTOPLANKTON	E	E-1	RWB		ACP-3 - GWB-3	PNTD - (GWB)	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	EPOXY PAINT AT WALLS
112		KNUCKLE LOBBY	PT	PT-1	PT	PT-1	ACP-5/GWB-3	PNTD	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	3 COLOR PATTERN - SEE 900 SERIES / SEE H1-A921 FOR PNT NOTE - PT BASE AT EXTERIOR WALL BELOW CW
112A		VEST	WOM	WOM-1 / 2	PT	-	ACP-5 / CT	-	GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	3 COLOR PATTERN - SEE 900 SERIES / SEE H1-A921 FOR PNT NOTE - PT BASE AT EXTERIOR WALL BELOW CW
113		BRIDGE	WOM	WOM-1 / 2	PT	-	ACP-5 / CT	-	GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
114		CORRIDOR	CONC - PT	PC-1/2/3 - PT	PT-RWB	PT-1	ACP-5	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	3 COLOR PATTERN - SEE 900 SERIES / SEE H1-A921 FOR PNT NOTE - PT BASE AT EXTERIOR WALL BELOW CW
115		VEST	WOM	WOM-1 / 2	PT	-	ACP-5 / CT	-	GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	3 COLOR PATTERN - SEE 900 SERIES / SEE H1-A921 FOR PNT NOTE - PT BASE AT EXTERIOR WALL BELOW CW
116	E11	ROCK SAMPLE STORAGE	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
117A		IDF	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
117B		STORAGE	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
118		GRADUATE STUDENTS	CPT	C-1	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
118A	P22a	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
118B	P21e	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
118C	P21f	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
118D	P21g	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
118E	P21h	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
118F	P25a	TECHNICAL STAFF	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
119	E15	ROCK SAMPLE PREP DIRTY-WET LAB	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	EPOXY PAINT AT WALLS
120		CORRIDOR	RTF	R-1 / R-4	RWB		ACP-6/GWB	PNTD	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
121		STORAGE	RTF	R-1 / R-4	RWB		ACP-6/GWB	PNTD	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
122		CORRIDOR	RTF	R-1 / R-4	RWB		ACP-6/GWB	PNTD	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
123	E16	ROCK SAMPLE PREP DIRTY-DRY LAB	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	EPOXY PAINT AT WALLS
124	P09	OPTICS LABORATORY	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
125	E14	HISTORICAL, SOFT ROCK GEOLOGY STORAGE ROOM	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
126		WOMEN	CT	CT-1/2/3/4	CT	CT-1/2/3/4	ACP-1		CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	4 COLOR CUSTOM TILE PATTERN - SEE ELEVATIONS
127	E05	HISTORICAL, SOFT ROCK GEOLOGY	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
128		MEN	CT	CT-1/2/3/4	CT	CT-1/2/3/4	ACP-1		CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	4 COLOR CUSTOM TILE PATTERN - SEE ELEVATIONS
129		ELECTRICAL	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
130		CORRIDOR	RTF	R-1 / R-4	RWB		ACP-6/GWB	PNTD	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
130A		VEST	CT	CT-1/2/3/4	CT	CT-1/2/3/4	ACP-1		CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	4 COLOR CUSTOM TILE PATTERN - SEE ELEVATIONS
131	P07	ASTRONOMICAL INSTRUMENT & IMAGING	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
132		CORRIDOR	CONC	PC-1/2/3	PT-RWB	PT-1	ACP-5	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	3 COLOR PATTERN - SEE 900 SERIES / SEE H1-A921 FOR PNT NOTE - PT BASE AT EXTERIOR WALL BELOW CW
133	P07-1	ASTRONOMICAL INSTRUMENT & IMAGING	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
134		CORRIDOR	CONC	PC-1/2/3	PT-RWB	PT-1	ACP-5	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	3 COLOR PATTERN - SEE 900 SERIES / SEE H1-A921 FOR PNT NOTE - PT BASE AT EXTERIOR WALL BELOW CW
134A		BAY	CONC	PC-1/2/3	PT-RWB	PT-1	ACP-5	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	3 COLOR PATTERN - SEE 900 SERIES / SEE H1-A921 FOR PNT NOTE - PT BASE AT EXTERIOR WALL BELOW CW
135	P02	SYNTHESIS & ELECTRICAL CHARACTERIZATION	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
137		TANK STORAGE	RTF	R-1 / R-4	RWB		ACP-6/GWB	PNTD	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
139	P06	GENERIC RESEARCH LAB	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
141	P05	PHOTONICS	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
143		CUSTODIAL	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
145		VESTIBULE	WOM	WOM-1 / 2	PT	-	ACP-5 / CT	-	GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
ST1b		EGRESS STAIR	CONC - RF	SEALED	RWB		GWB	PNTD	GF-CMU1&2	PNTD-1	GF-CMU1&2 2	PNTD-1	GF-CMU1&2	PNTD-1	GF-CMU1&2	PNTD-1	GROUND FACE CMU WALL
ST2b		STAIR	STN	S-1	RWB		GWB	PNTD	GWB	PNTD	GWB	PNTD	GWB	PNTD	GWB	PNTD	
ST3b		EGRESS STAIR	CONC - RF	SEALED	RWB		GWB	PNTD	GF-CMU1&2	PNTD-1	GF-CMU1&2 2	PNTD-1	GF-CMU1&2	PNTD-1	GF-CMU1&2	PNTD-1	GROUND FACE CMU WALL
ST6		STAIR	CONC - RF	SEALED	RWB		GWB	PNTD	GF-CMU1&2	PNTD-1	GF-CMU1&2 2	PNTD-1	GF-CMU1&2	PNTD-1	GF-CMU1&2	PNTD-1	
SECOND FLOOR LEVEL																	
201		CORRIDOR	CONC	PC-1/2/3	PT-RWB	PT-1	ACP-5	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	3 COLOR PATTERN - SEE 900 SERIES
202		MEN	CT	CT-1/2/3/4	CT	CT-1/2/3/4	ACP-1		CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	4 COLOR CUSTOM TILE PATTERN - SEE ELEVATIONS
202A		CUSTODIAL	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
203	V02	GENERIC RESEARCH LABORATORY	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
204		WOMEN	CT	CT-1/2/3/4	CT	CT-1/2/3/4	ACP-1		CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	4 COLOR CUSTOM TILE PATTERN - SEE ELEVATIONS
205		CORRIDOR	CONC	PC-1/2/3	PT-RWB	PT-1	ACP-5	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	3 COLOR PATTERN - SEE 900 SERIES
206		GROUP STUDY	CPT	C-1	RWB		ACP-7		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
207		CORRIDOR	RTF	R-1 / R-4	RWB		ACP-6/GWB	PNTD	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
207A	V12b	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
207B	V12a	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
207C		ELECTRICAL	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
208	V14	GRADUATE STUDENTS	CPT	C-1	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
208A	V15	TECHNICAL STAFF	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	

ROOM FINISH SCHEDULE

TAG	PROGRAM NUMBER	NAME	FLOOR		BASE		CEILING		NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL		NOTES
			MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	
208B	V12c	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
209	V09	FREEZERS	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
210	S10a	CLASSROOM	CPT	C-2	RWB		ACP-7/GWB	PNTD	GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
211	V01	COASTAL & MARINE STUDIES	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
211B		TANK STORAGE	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
211C		TANK STORAGE	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
212	S11a	CONFERENCE / SEMINAR ROOM	CPT	C-2	RWB		ACP-2	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
213		KNUCKLE LOBBY	CONC	PC-1/2/3	PT-RWB	PT-1	ACP-5	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	3 COLOR PATTERN - SEE 900 SERIES / SEE H1-A921 FOR PNT NOTE - PT BASE AT EXTERIOR WALL BELOW CW
214	S02	COMPUTER LAB	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
214A	P22b	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
215		CORRIDOR	RTF	R-1 / R-4	RWB		ACP-6/GWB	PNTD	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
216	E19c	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
217		IDF	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
218		CORRIDOR	RTF	R-1 / R-4	RWB		ACP-6/GWB	PNTD	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
218A	E19d	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
218B	E19a	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
218C	E19b	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
218D	E19e	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
219	E12	MINERALOGY SAMPLE STORAGE SECURE ROOM	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
220		CORRIDOR	RTF	R-1 / R-4	RWB		ACP-6/GWB	PNTD	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
221	E03	MINERALOGY, PETROLOGY	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
222	S10b	CLASSROOM	CPT	C-2	RWB		ACP-7/GWB	PNTD	GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
223	E07	X-RAY SAMPLE PREP	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
225	E06	X-RAY ANALYSIS	RTF	R-4	RWB		ACP-4	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	EPOXY PAINT AT WALLS
226	E02b	GENERIC RESEARCH LAB	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
227		TANK STORAGE	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
228		STORAGE	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
229	E08	LASER ABLATION, ICP-MS LAB	RTF	R-4	RWB		ACP-4	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	EPOXY PAINT AT WALLS
230	E02c	GENERIC RESEARCH LAB	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
231		ELECTRICAL	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
232		STORAGE	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
233A	E09	CLEAN GEO-CHEMISTRY LAB	RTF	R-4	RWB		ACP-4	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	EPOXY PAINT AT WALLS
233B		VESTIBULE	RTF	R-4	RWB		ACP-4	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	EPOXY PAINT AT WALLS
234	E02d	GENERIC RESEARCH LAB	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
235	E10	GENERAL GEO-CHEMISTRY STUDENT RESEARCH LAB	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
236		WOMEN	CT	CT-1/2/3/4	CT	CT-1/2/3/4	ACP-1		CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	4 COLOR CUSTOM TILE PATTERN - SEE ELEVATIONS
236A		BAY	CONC	PC-1/2/3	PT-RWB	PT-1	ACP-5	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	3 COLOR PATTERN - SEE 900 SERIES / SEE H1-A921 FOR PNT NOTE - PT BASE AT EXTERIOR WALL BELOW CW
236B		BAY	CONC	PC-1/2/3	PT-RWB	PT-1	ACP-5	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	3 COLOR PATTERN - SEE 900 SERIES / SEE H1-A921 FOR PNT NOTE - PT BASE AT EXTERIOR WALL BELOW CW
237	E01	CATHODOLUMINESCENCE / FLUID INCLUSION	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
238		MEN	CT	CT-1/2/3/4	CT	CT-1/2/3/4	ACP-1		CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	4 COLOR CUSTOM TILE PATTERN - SEE ELEVATIONS
239	E02a	GENERIC RESEARCH LAB	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
240		CORRIDOR	CONC	PC-1/2/3	PT-RWB	PT-1	ACP-5	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	3 COLOR PATTERN - SEE 900 SERIES / SEE H1-A921 FOR PNT NOTE - PT BASE AT EXTERIOR WALL BELOW CW
241	E04-1	STRUCTURAL GEOLOGY STORAGE ROOM	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
241A	E13	STRUCTURAL GEOLOGY FIELD EQUIPMENT STORAGE ROOM	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
242		CORRIDOR	RTF	R-1 / R-4	RWB		ACP-6/GWB	PNTD	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
242A		VEST	RTF	R-1 / R-4	RWB		ACP-6/GWB	PNTD	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
243	E04	STRUCTURAL GEOLOGY	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
245		CUSTODIAL	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
247		GROUP STUDY	CPT	C-1	RWB		ACP-7		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	SEE H1/A921 FOR CLG PAINT NOTE
ST1c		EGRESS STAIR	CONC - RF	SEALED	RWB		GWB	PNTD	GF-CMU1&2	PNTD-1	GF-CMU1&2 2	PNTD-1	GF-CMU1&2	PNTD-1	GF-CMU1&2	PNTD-1	GROUND FACE CMU WALL
ST2c		STAIR	STN	S-1	RWB		GWB	PNTD	GWB	PNTD	GWB	PNTD	GWB	PNTD	GWB	PNTD	
ST3c		EGRESS STAIR	CONC - RF	SEALED	RWB		GWB	PNTD	GF-CMU1&2	PNTD-1	GF-CMU1&2 2	PNTD-1	GF-CMU1&2	PNTD-1	GF-CMU1&2	PNTD-1	GROUND FACE CMU WALL
THIRD FLOOR LEVEL																	
301		BRIDGE CONNECTOR	CPT/RTF	C-2/R-2	RWB		ACP-5		GWB	PNTD	GWB	PNTD	GWB	PNTD	GWB	PNTD	
302		MEN	CT	CT-1/2/3/4	CT	CT-1/2/3/4	ACP-1		CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	
302A		CUSTODIAL	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
303		CORRIDOR	CONC	PC-1/2/3	PT-RWB	PT-1	ACP-5	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	3 COLOR PATTERN - SEE 900 SERIES
304		WOMEN	CT	CT-1/2/3/4	CT	CT-1/2/3/4	ACP-1		CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	4 COLOR CUSTOM TILE PATTERN - SEE ELEVATIONS
305	B02	MOLECULAR BIOLOGY	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
306		CORRIDOR	CPT	C-1	RWB		ACP-7		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
307		CORRIDOR	CONC	PC-1/2/3	PT-RWB	PT-1	ACP-5	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	3 COLOR PATTERN - SEE 900 SERIES
308		GROUP STUDY	CPT	C-1	RWB		ACP-7		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
309		CORRIDOR	RTF	R-1 / R-4	RWB		ACP-6/GWB	PNTD	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
310	S06	GROWTH CHAMBERS	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
311		CORRIDOR	RTF	R-1 / R-4	RWB		ACP-6/GWB	PNTD	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
311A	B09	MOLECULAR BIOLOGY MICROSCOPE	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
311B	B14d	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
311C	B14c	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
311D	B14b	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
311E	B14a	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
311F	B10	MOLECULAR BIOLOGY COLD ROOM	RTF	R-1 / R-4	RWB		ACP-6/GWB	PNTD	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
311G		ELECTRICAL	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
312	B01	MICROBIOLOGY	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
313	S07	AUTOCLAVE	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
313A	S09	MEDIA PREP, GL WASH, & STERIL. AUTOCLAVE	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
314	B04	TISSUE CULTURE	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
315	C01	BIOCHEMISTRY	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
315B		TANK STORAGE	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
316		ELECTRICAL	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
317		KNUCKLE LOBBY	CONC	PC-1/2/3	PT-RWB	PT-1	ACP-5	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	3 COLOR PATTERN - SEE 900 SERIES / SEE H1-A921 FOR PNT NOTE - PT BASE AT EXTERIOR WALL BELOW CW
317A		KNUCKLE LIGHTWELL	NA	NA	NA	-	MTL-1	PNTD ABOVE	GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	PNTD ABOVE CEILING MTL-1 - EXPOSED ARCH,MEP,A/V COMPONENTS AND SURFACES
317B		KNUCKLE LIGHTWELL	NA	NA	NA	-	MTL-1	PNTD ABOVE	GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	PNTD ABOVE CEILING MTL-1 - EXPOSED ARCH,MEP,A/V COMPONENTS AND SURFACES
318	B05	MOLECULAR BIOLOGY	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
319	S11b	CONFERENCE /SEMINAR ROOM	CPT	C-2	RWB		ACP-2	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
320		ELECTRICAL	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
321		CORRIDOR	CONC	PC-1/2/3	PT-RWB	PT-1	ACP-5	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	3 COLOR PATTERN - SEE 900 SERIES / SEE H1-A921 FOR PNT NOTE - PT BASE AT EXTERIOR WALL BELOW CW
321A		BAY	CONC	PC-1/2/3	PT-RWB	PT-1	ACP-5	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	3 COLOR PATTERN - SEE 900 SERIES / SEE H1-A921 FOR PNT NOTE - PT BASE AT EXTERIOR WALL BELOW CW
322	B08	HISTOLOGY	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
323		IDF	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
324	B07	MICROSCOPY	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
325	C08	INORGANIC LABORATORY	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
326		CORRIDOR	RTF	R-1 / R-4	RWB		ACP-6/GWB	PNTD	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
327	C09	INORGANIC PREP LABORATORY	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
327B		TANK STORAGE	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
328	P18	ASTRONOMY CONTROL ROOM	CPT	C-1	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	DOME CLG W/ SKYLIGHT
329	C03	INORGANIC	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
330		STORAGE	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
331	C04	PHYSICAL CHEM	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
331A		PHYSICAL CHEM	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
332	S03	SHARED EQUIPMENT	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
333		ELECTRICAL	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
334	C06	ANALYTICAL CHEMISTRY	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
335	C11	NMR LAB	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
336		TANK STORAGE	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
337	C02a	ORGANIC	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
338	C05	ANALYTICAL INSTRUMENT	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
339		CORRIDOR	RTF	R-1 / R-4	RWB		ACP-6/GWB	PNTD	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
340		CORRIDOR	RTF	R-1 / R-4	RWB		ACP-6/GWB	PNTD	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
340A	C17	TECHNICAL STAFF	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
340B	C14c	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
340C	C14b	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
340D	C14e	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
340E	C14f	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
340F	C14g	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
341	C02b	ORGANIC	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
342	C14d	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
343	C10	ORGANIC PREP LABORATORY	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
344		CORRIDOR	RTF	R-1 / R-4	RWB		ACP-6/GWB	PNTD	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
344A		VEST	RTF	R-1 / R-4	RWB		ACP-6/GWB	PNTD	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
345	C07	ORGANIC CHEMISTRY	RTF	R-4	RWB		ACP-1		GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	
345B		TANK STORAGE	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
346		WOMEN	CT	CT-1/2/3/4	CT	CT-1/2/3/4	ACP-1		CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	4 COLOR CUSTOM TILE PATTERN - SEE ELEVATIONS
347		CUSTODIAL	CONC	SEALED	RWB		CONC	PNTD	GWB-PLWD	PNTD-1	GWB-PLWD	PNTD-1	GWD-PLWD	PNTD-1	GWB-PLWD	PNTD-1	
348		MEN	CT	CT-1/2/3/4	CT	CT-1/2/3/4	ACP-1		CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	CT	CT-2/3/4	4 COLOR CUSTOM TILE PATTERN - SEE ELEVATIONS
349		GROUP STUDY	CPT	C-1	RWB		ACP-7		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	SEE H1/A921 FOR PAINT NOTE
350		CORRIDOR	CONC	PC-1/2/3	PT-RWB	PT-1	ACP-5	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	3 COLOR PATTERN - SEE 900 SERIES / SEE H1-A921 FOR PNT NOTE - PT BASE AT EXTERIOR WALL BELOW CW
352	C14h	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
354		CORRIDOR	CONC	PC-1/2/3	PT-RWB	PT-1	ACP-5	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	3 COLOR PATTERN - SEE 900 SERIES / SEE H1-A921 FOR PNT NOTE - PT BASE AT EXTERIOR WALL BELOW CW
354A		BAY	CONC	PC-1/2/3	PT-RWB	PT-1	ACP-5	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	3 COLOR PATTERN - SEE 900 SERIES / SEE H1-A921 FOR PNT NOTE - PT BASE AT EXTERIOR WALL BELOW CW
354B		BAY	CONC	PC-1/2/3	PT-RWB	PT-1	ACP-5	-	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	GWB	PNTD-1	3 COLOR PATTERN - SEE 900 SERIES / SEE H1-A921 FOR PNT NOTE - PT BASE AT EXTERIOR WALL BELOW CW
356	C14a	FTE FACULTY	CPT	C-2	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	
358		GRADUATE STUDENTS	CPT	C-1	RWB		ACP-6		GWB	PNTD-2	GWB	PNTD-1	GWB	PNTD-3	GWB	PNTD-1	SEE H1/A921 FOR CLG PAINT NOTE
ST1d		EGRESS STAIR	CONC - RF	SEALED	RWB		GWB	PNTD	GF-CMU1&2	PNTD-1	GF-CMU1&2 2	PNTD-1	GF-CMU1&2	PNTD-1	GF-CMU1&2	PNTD-1	GROUND FACE CMU WALL
ST2d		STAIR	STN	S-1	RWB		GWB	PNTD	GWB	PNTD	GWB	PNTD	GWB	PNTD	GWB	PNTD	
ST3d		EGRESS STAIR	CONC - RF	SEALED	RWB		GWB	PNTD	GF-CMU1&2	PNTD-1	GF-CMU1&2 2	PNTD-1	GF-CMU1&2	PNTD-1	GF-CMU1&2	PNTD-1	GROUND FACE CMU WALL
FOURTH FLOOR MECHANICAL ATTIC LEVEL																	
401		VESTIBULE	CONC	SEALED	RWB				GWB	PNTD	GWB	PNTD	GWB	PNTD	GWB	PNTD	
402		MEP	CONC	SEALED	RWB				GWB	PNTD	GWB	PNTD	GWB	PNTD	GWB	PNTD	
402A		VESTIBULE	CONC	SEALED	RWB				GWB	PNTD	GWB	PNTD	GWB	PNTD	GWB	PNTD	
403		MEP	CONC	SEALED	RWB						GWB	PNTD					
404		MEP	CONC	SEALED	RWB								GWB	PNTD			
404A		ELECTRICAL	CONC	SEALED	RWB				GWB	PNTD	GWB	PNTD	GWB	PNTD	GWB	PNTD	
404B		EMERGENCY ELECTRICAL	CONC	SEALED	RWB				GWB	PNTD	GWB	PNTD	GWB	PNTD	GWB	PNTD	
405		MEP	CONC	SEALED	RWB				GWB	PNTD							
406		VESTIBULE	CONC	SEALED	RWB				GWB	PNTD	GWB	PNTD	GWB	PNTD	GWB	PNTD	
ST1e		EGRESS STAIR	CONC - RF	SEALED	RWB		GWB	PNTD	GF-CMU1&2	PNTD-1	GF-CMU1&2 2	PNTD-1	GF-CMU1&2	PNTD-1	GF-CMU1&2	PNTD-1	GROUND FACE CMU WALL
ST3e		EGRESS STAIR	CONC - RF	SEALED	RWB		GWB	PNTD	GF-CMU1&2	PNTD-1	GF-CMU1&2 2	PNTD-1	GF-CMU1&2	PNTD-1	GF-CMU1&2	PNTD-1	

FLOOR:

- CARPET / **CPT**
  C-1 - COLOR 1
  C-2 - COLOR 2
  C-3 - COLOR 3
- PORCELAIN TILE / **PT**
  PT-1 - COLOR # 1
- CEMENTIOUS MICRO-TOP OVERLAY / **PC**
  PC-1 - COLOR # 1
  PC-2 - COLOR # 2
  PC-3 - COLOR # 3
- RESINOUS FLOOR (EPOXY) / **E**
  E-1 - COLOR # 1

FLOOR CONT:

- PORCELAIN TILE / **CT**
  CT-1 - COLOR # 1
  CT-2 - COLOR # 2
  CT-3 - COLOR # 3
  CT-4 - COLOR # 4
- RESILIENT TILE FLOORING / **RTF**
  R-1 - COLOR # 1 & 2 PATTERN TBD
  R-2 - NOT USED
  R-3 - NOT USED
  R-4 - COLOR # 3 & 4 PATTERN TBD
- CONCRETE - **CONC**
  SC - SEALED

FLOOR CONT.:

- WALK OFF MAT (RECESSED) / **WOM**
  WOM-1 - TYPE 1 / METAL STRIP
  WOM-2 - TYPE 2 / CARPET FIBER

BASE:

- RUBBER WALL BASE - **RWB**
  RWB-1 - COLOR #1 - MATCH WALL
  RWB-2 - COLOR #2 - MATCH WALL
  RWB-3 - COLOR #3 - MATCH WALL
- PORCELAIN TILE / **PT**
  PT-1 - COLOR # 1
- CERAMIC TILE / **CT**
  CT-1 - COLOR # 1
  CT-2 - COLOR # 2
  CT-3 - COLOR # 3
  CT-4 - COLOR # 4
  CT-ACCENT TILE

CEILING:

- ACOUSTIC CEILING PANELS W/ SUSPENSION SYSTEM / **ACP**

  ACP-1 - 2X2 BEVELED TEGULAR EDGE ON 15/16" GRID - MINERAL FIBER TYPE

  ACP-2 - 2X2 SQUARE TEGULAR EDGE ON 15/16" GRID - FIBERGLASS TYPE

  ACP-3 - 2X2 BEVELED TEGULAR EDGE ON 15/16" **NON-METALLIC GRID** MINERAL FIBER - HIGH HUMIDITY - WASHABLE TYPE

  ACP-4 - 2X2 SQUARE LAY-IN EDGE ON 15/16" **NON-METALLIC GRID** MINERAL FIBER W/ VINYL FACE CLEAN ROOM TYPE

  ACP-5 - 2X2 BEVELED TEGULAR EDGE ON 15/16" GRID MINERAL FIBER - W / (4) COLOR GRID TO BE SELECTED FROM MFR FULL LINE

  ACP-6 - 2X2 BEVELED TEGULAR EDGE ON 15/16" GRID - MINERAL FIBER

  ACP-7 - 2X2 SQUARE TEGULAR EDGE ON 15/16" GRID FIBERGLASS - HIGH NRC RATED TILE

CEILING CONT.:

- APPLIED CEILING TILE - **ACT-1**
  APPLIED CEILING TILE ON (2) LAYERS GWB W/ ACOUSTIC BATT INSULATION ON VIBRATION ISOLATION SUSPEBSION SYSTEM - REFER TO DETAIL
- GYPSUM WALL BOARD - **GWB**

  GWB-1 - GYPSUM WALL BOARD

  GWB-2 - MOISTURE RESISTANT GYPSUM WALL BOARD

  GWB-3 - GWB W/ SPRAY APPLIED CELLULOSE ACOUSTIC TREATMENT

  GWB-4 - (2) LAYERS GWB W/ ACOUSTIC BATT INSULATION ON VIBRATION ISOLATION SUSPENSION SYSTEM - REFER TO DETAIL

CEILING CONT.:

- METAL CEILING PANELS - **MTL-1**
  2X2 WOVEN - TWIN WIRE - TEXTURED ROUND PANEL ON 15/16" GRID
  PANEL AND GRID MATCH - GRAY
- CERAMIN TILE - **CT CLG**
  CT- 5-6-7 COLOR PATTERN (TBD)
  34% COLOR 1, 33% COLOR 2,33% COLOR 3
- FIBER GLASS - **FG-1**
  LEVEL 5 FINISH FIBERGLASS CEILING DOME

WALL:

- GYPSUM WALL BOARD - **GWB**
- GYPSUM WALL BOARD WITH LEVEL 5 FINISH - **GWB5**
- MOISTURE AND MOLD RESISTANT GYPSUM WALL BOARD - **MRGWB**
- CERAMIC TILE - **CT**
  CT-1 - COLOR # 1
  CT-2 - COLOR # 2
  CT-3 - COLOR # 3
  CT-4 - COLOR # 4
  ACCENT 1" X 1" TILE
  CT-8 - COLOR # 8
  CT-9 - COLOR # 9
  CT-10 - COLOR # 10
- CONCRETE MASONRY UNIT - **CMU**
- CONCRETE - **CONC**

WALL:

PAINT - **PNTD**
PNTD-1 - COLOR # 1
PNTD-2 - COLOR # 2
PNTD-3 - COLOR # 3
PNTD-4 - COLOR # 4
PNTD-5 - COLOR # 5
PNTD-6 - COLOR # 6

GROUND FACE CONCRETE MASONRY UNIT - **GF-CMU**
GF-CMU-1 - COLOR #1
GF-CMU-2 - COLOR #2

SOUND ABSORBING PANEL FABRIC
GUILFORD OF MAINE - PANEL 3495 -COASTLINE - 040 BLUFF

WALLCOVERING - **WCI**
WCI-1 - CUSTOM GRAPHIC # 1
WCI-2 - CUSTOM GRAPHIC # 2
WCI-3 - CUSTOM GRAPHIC # 3
WCI NOTE : CUSTOM DIGITAL PHOTOGRAPHIC IMAGES TO BE PROVIDED NY ARCHITECT FOR MANUFACTURING OF WALLCOVERING

drawing title: ROOM FINISH SCHEDULE

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

volume: 1 of 2
date: 11-21-2012
scale: 1/4" = 1'-0"
drawn by: EL/BGA
approved by: RM/JBR
drawing no.: A901
CAD no.: 1393
project no.: BI-RS-283

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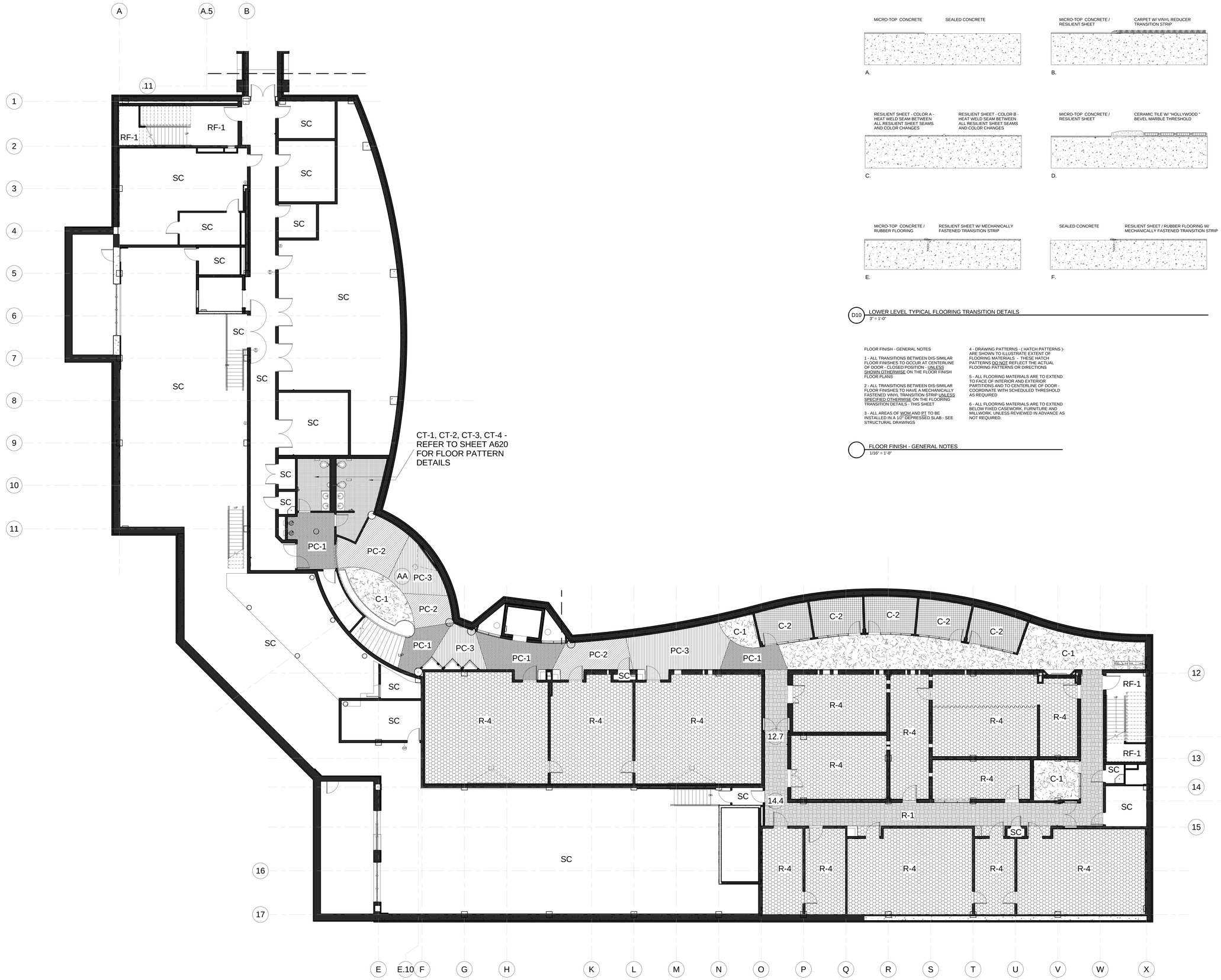


M1 FLOOR FINISH PLAN - LOWER LEVEL
1/8" = 1'-0"

D10 LOWER LEVEL TYPICAL FLOORING TRANSITION DETAILS
3" = 1'-0"

FLOOR FINISH - GENERAL NOTES

1 - ALL TRANSITIONS BETWEEN DIS-SIMILAR FLOOR FINISHES TO OCCUR AT CENTERLINE OF DOOR - CLOSED POSITION - UNLESS SHOWN OTHERWISE ON THE FLOOR FINISH FLOOR PLANS

2 - ALL TRANSITIONS BETWEEN DIS-SIMILAR FLOOR FINISHES TO HAVE A MECHANICALLY FASTENED VINYL TRANSITION STRIP UNLESS SPECIFIED OTHERWISE ON THE FLOORING TRANSITION DETAILS - THIS SHEET

3 - ALL AREAS OF WOM AND PT TO BE INSTALLED IN A 1/2" DEPRESSED SLAB - SEE STRUCTURAL DRAWINGS

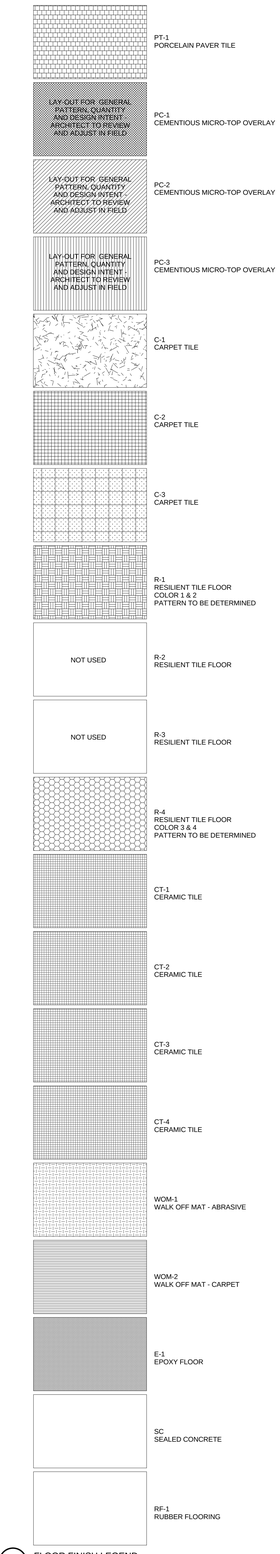
4 - DRAWING PATTERNS - (HATCH PATTERNS)- ARE SHOWN TO ILLUSTRATE EXTENT OF FLOORING MATERIALS - THESE HATCH PATTERNS DO NOT REFLECT THE ACTUAL FLOORING PATTERNS OR DIRECTIONS

5 - ALL FLOORING MATERIALS ARE TO EXTEND TO FACE OF INTERIOR AND EXTERIOR PARTITIONS AND TO CENTERLINE OF DOOR - COORDINATE WITH SCHEDULED THRESHOLD AS REQUIRED

6 - ALL FLOORING MATERIALS ARE TO EXTEND BELOW FIXED CASEWORK, FURNITURE AND MILLWORK, UNLESS REVIEWED IN ADVANCE AS NOT REQUIRED.

FLOOR FINISH - GENERAL NOTES
1/16" = 1'-0"

FLOOR FINISH LEGEND



FLOOR FINISH LEGEND
1/8" = 1'-0"

drawing title: LOWER LEVEL – FLOOR FINISH PLAN	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		volume: 1 of 2
REVISIONS			date: 11-21-2012
mark / date / description	DRAWING: Centerbrook Architects and Planners, LLP, 67 Main Street, Post Office Box 955, Centerbrook, Connecticut 06409-0955		scale: As indicated
11-21-2012 Bid Documents	project: SCSU NEW ACADEMIC LABORATORY BUILDING		drawn by: BGA/KEC
			approved by: RM/JBR
	CAD file: 1393	project no.: BI-RS-283	drawing no.: A902

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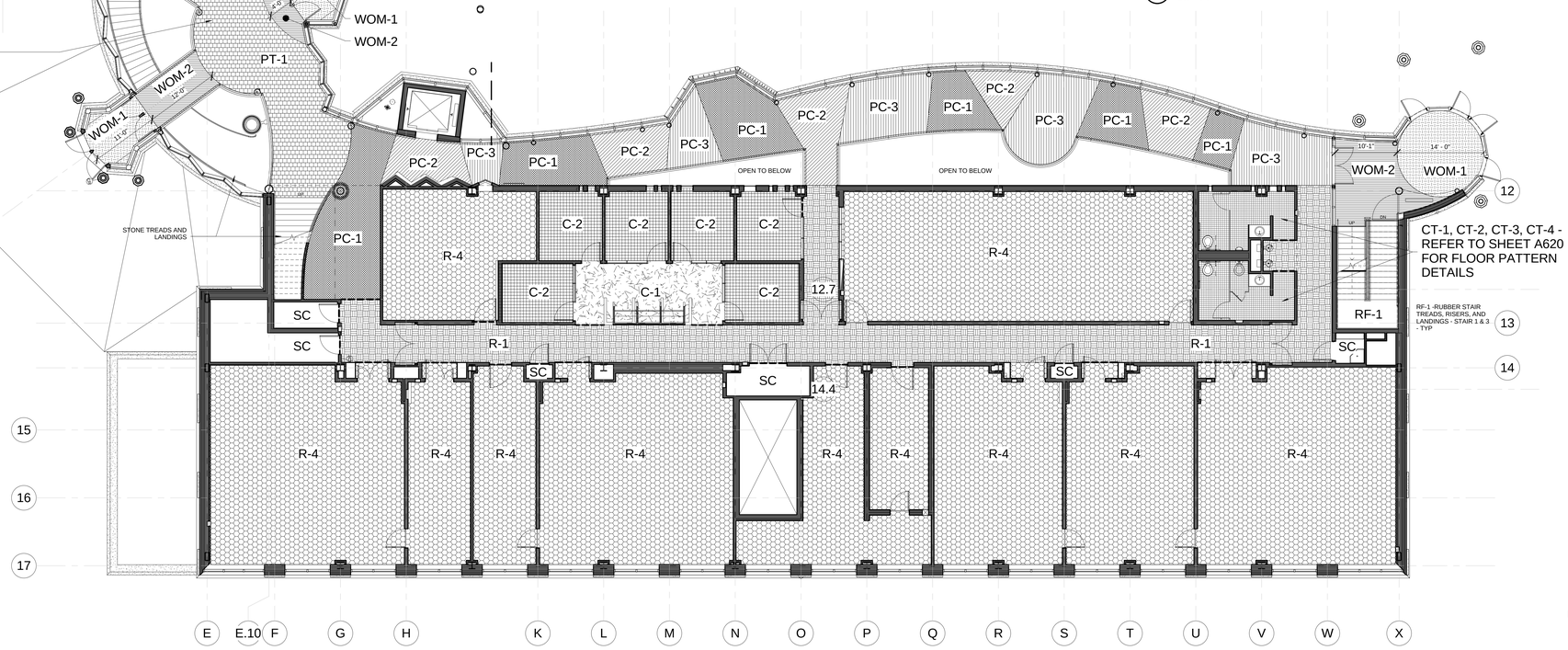
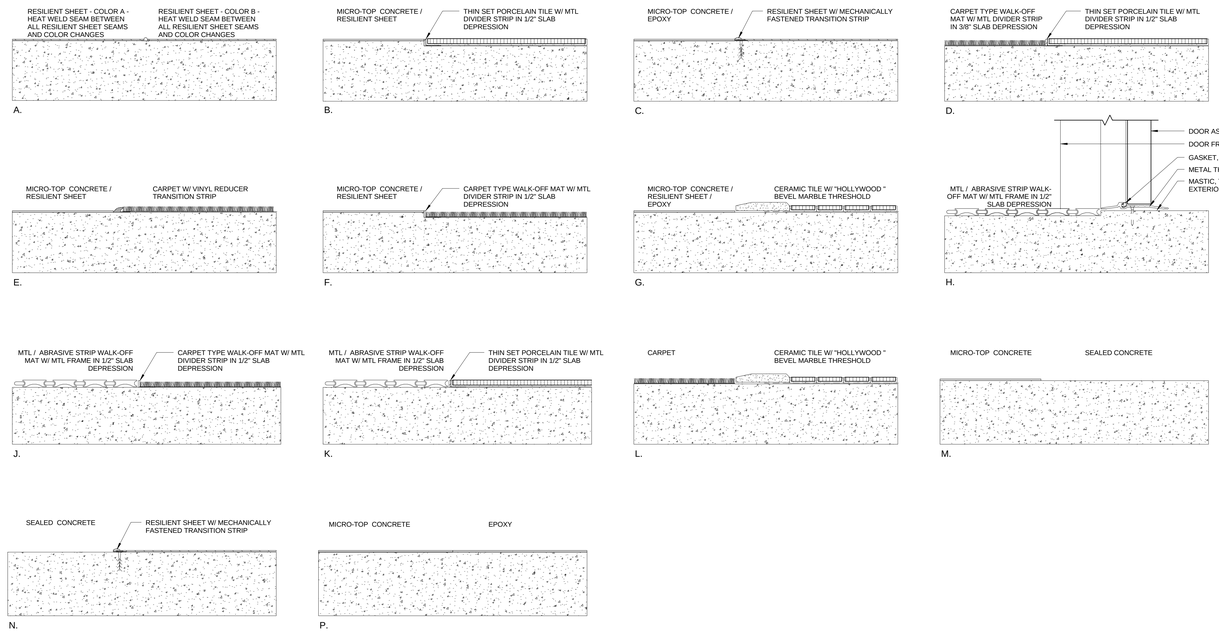


M1 FLOOR FINISH PLAN - GROUND LEVEL
1/8" = 1'-0"



E6 GROUND LEVEL TYPICAL FLOORING TRANSITION DETAILS
3" = 1'-0"

FLOOR FINISH - GENERAL NOTES

1 - ALL TRANSITIONS BETWEEN DIS-SIMILAR FLOOR FINISHES TO OCCUR AT CENTERLINE OF DOOR - CLOSED POSITION - UNLESS SHOWN OTHERWISE ON THE FLOOR FINISH FLOOR PLANS

2 - ALL TRANSITIONS BETWEEN DIS-SIMILAR FLOOR FINISHES TO HAVE A MECHANICALLY FASTENED VINYL TRANSITION STRIP UNLESS SPECIFIED OTHERWISE ON THE FLOORING TRANSITION DETAILS - THIS SHEET

3 - ALL AREAS OF WOM AND PT TO BE INSTALLED IN A 1/2" DEPRESSED SLAB - SEE STRUCTURAL DRAWINGS

4 - DRAWING PATTERNS - (HATCH PATTERNS)- ARE SHOWN TO ILLUSTRATE EXTENT OF FLOORING MATERIALS - THESE HATCH PATTERNS DO NOT REFLECT THE ACTUAL FLOORING PATTERNS OR DIRECTIONS

5 - ALL FLOORING MATERIALS ARE TO EXTEND TO FACE OF INTERIOR AND EXTERIOR PARTITIONS AND TO CENTERLINE OF DOOR - COORDINATE WITH SCHEDULED THRESHOLD AS REQUIRED

6 - ALL FLOORING MATERIALS ARE TO EXTEND BELOW FIXED CASEWORK, FURNITURE AND MILLWORK, UNLESS REVIEWED IN ADVANCE AS NOT REQUIRED.

FLOOR FINISH - GENERAL NOTES
1/16" = 1'-0"

FLOOR FINISH LEGEND

	PT-1 PORCELAIN PAVER TILE
LAY-OUT FOR GENERAL PATTERN, QUANTITY AND DESIGN INTENT ARCHITECT TO REVIEW AND ADJUST IN FIELD	PC-1 CEMENTIOUS MICRO-TOP OVERLAY
LAY-OUT FOR GENERAL PATTERN, QUANTITY AND DESIGN INTENT ARCHITECT TO REVIEW AND ADJUST IN FIELD	PC-2 CEMENTIOUS MICRO-TOP OVERLAY
LAY-OUT FOR GENERAL PATTERN, QUANTITY AND DESIGN INTENT ARCHITECT TO REVIEW AND ADJUST IN FIELD	PC-3 CEMENTIOUS MICRO-TOP OVERLAY
	C-1 CARPET TILE
	C-2 CARPET TILE
	C-3 CARPET TILE
	R-1 RESILIENT TILE FLOOR COLOR 1 & 2 PATTERN TO BE DETERMINED
NOT USED	R-2 RESILIENT TILE FLOOR
NOT USED	R-3 RESILIENT TILE FLOOR
	R-4 RESILIENT TILE FLOOR COLOR 3 & 4 PATTERN TO BE DETERMINED
	CT-1 CERAMIC TILE
	CT-2 CERAMIC TILE
	CT-3 CERAMIC TILE
	CT-4 CERAMIC TILE
	WOM-1 WALK OFF MAT - ABRASIVE
	WOM-2 WALK OFF MAT - CARPET
	E-1 EPOXY FLOOR
	SC SEALED CONCRETE
	RF-1 RUBBER FLOORING

FLOOR FINISH LEGEND
1/8" = 1'-0"

GROUND LEVEL – FLOOR FINISH PLAN

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
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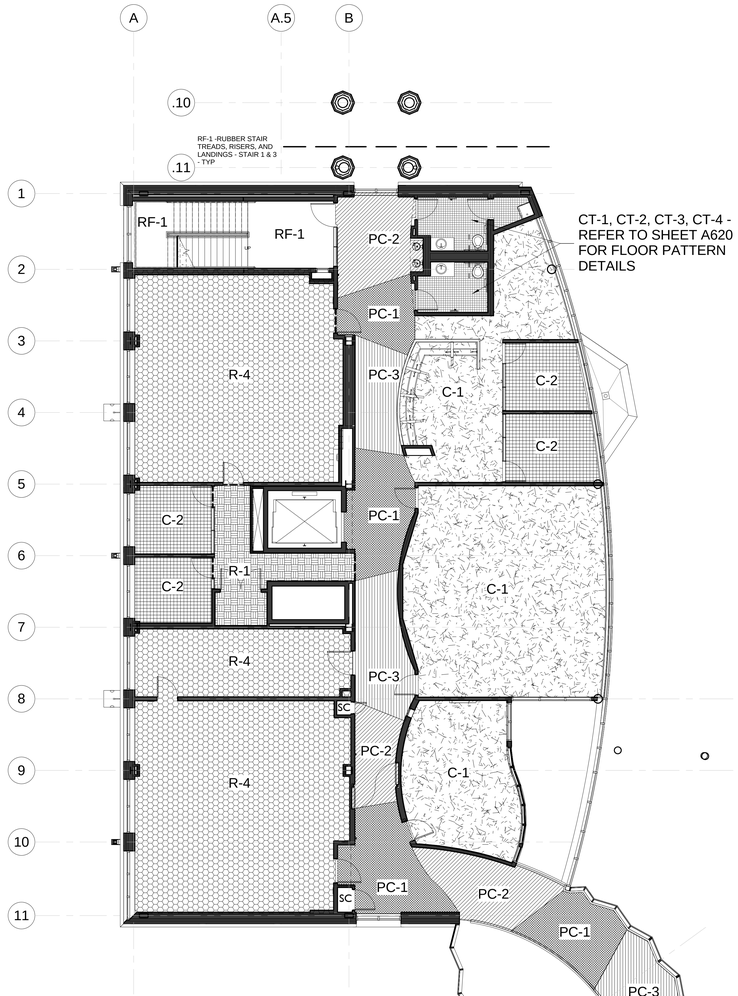
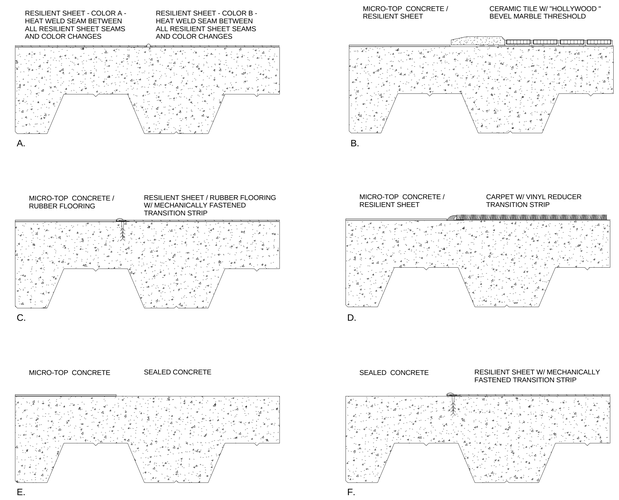
project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

sheet of 1 of 2
date 11-21-2012
scale As indicated
drawn by BGA/KEC
checked by RMJ/BR
drawing no. A903



M1 FLOOR FINISH PLAN - SECOND FLOOR
1/8" = 1'-0"



D9 SECOND LEVEL TYPICAL FLOORING TRANSITION DETAILS
3" = 1'-0"

FLOOR FINISH - GENERAL NOTES

1 - ALL TRANSITIONS BETWEEN DIS-SIMILAR FLOOR FINISHES TO OCCUR AT CENTERLINE OF DOOR - CLOSED POSITION - UNLESS SHOWN OTHERWISE ON THE FLOOR FINISH FLOOR PLANS

2 - ALL TRANSITIONS BETWEEN DIS-SIMILAR FLOOR FINISHES TO HAVE A MECHANICALLY FASTENED VINYL TRANSITION STRIP UNLESS SPECIFIED OTHERWISE ON THE FLOORING TRANSITION DETAILS - THIS SHEET

3 - ALL AREAS OF WOM AND PT TO BE INSTALLED IN A 1/2" DEPRESSED SLAB - SEE STRUCTURAL DRAWINGS

4 - DRAWING PATTERNS - (HATCH PATTERNS)- ARE SHOWN TO ILLUSTRATE EXTENT OF FLOORING MATERIALS - THESE HATCH PATTERNS DO NOT REFLECT THE ACTUAL FLOORING PATTERNS OR DIRECTIONS

5 - ALL FLOORING MATERIALS ARE TO EXTEND TO FACE OF INTERIOR AND EXTERIOR PARTITIONS AND TO CENTERLINE OF DOOR - COORDINATE WITH SCHEDULED THRESHOLD AS REQUIRED

6 - ALL FLOORING MATERIALS ARE TO EXTEND BELOW FIXED CASEWORK, FURNITURE AND MILLWORK, UNLESS REVIEWED IN ADVANCE AS NOT REQUIRED.

FLOOR FINISH - GENERAL NOTES
1/16" = 1'-0"

FLOOR FINISH LEGEND

	PT-1 PORCELAIN PAVER TILE
LAY-OUT FOR GENERAL PATTERN, QUANTITY AND DESIGN INTENT - ARCHITECT TO REVIEW AND ADJUST IN FIELD	PC-1 CEMENTIOUS MICRO-TOP OVERLAY
LAY-OUT FOR GENERAL PATTERN, QUANTITY AND DESIGN INTENT - ARCHITECT TO REVIEW AND ADJUST IN FIELD	PC-2 CEMENTIOUS MICRO-TOP OVERLAY
LAY-OUT FOR GENERAL PATTERN, QUANTITY AND DESIGN INTENT - ARCHITECT TO REVIEW AND ADJUST IN FIELD	PC-3 CEMENTIOUS MICRO-TOP OVERLAY
	C-1 CARPET TILE
	C-2 CARPET TILE
	C-3 CARPET TILE
	R-1 RESILIENT TILE FLOOR COLOR 1 & 2 PATTERN TO BE DETERMINED
NOT USED	R-2 RESILIENT TILE FLOOR
NOT USED	R-3 RESILIENT TILE FLOOR
	R-4 RESILIENT TILE FLOOR COLOR 3 & 4 PATTERN TO BE DETERMINED
	CT-1 CERAMIC TILE
	CT-2 CERAMIC TILE
	CT-3 CERAMIC TILE
	CT-4 CERAMIC TILE
	WOM-1 WALK OFF MAT - ABRASIVE
	WOM-2 WALK OFF MAT - CARPET
	E-1 EPOXY FLOOR
	SC SEALED CONCRETE
	RF-1 RUBBER FLOORING

FLOOR FINISH LEGEND
1/8" = 1'-0"

drawing title: SECOND FLOOR – FLOOR FINISH PLAN

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING: Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD: 1393
project no.: BI-RS-283

volume: 1 of 2
date: 11-21-2012
scale: As indicated
drawn by: BGA/KEC
approved by: RM/JBR
drawing no.: A904

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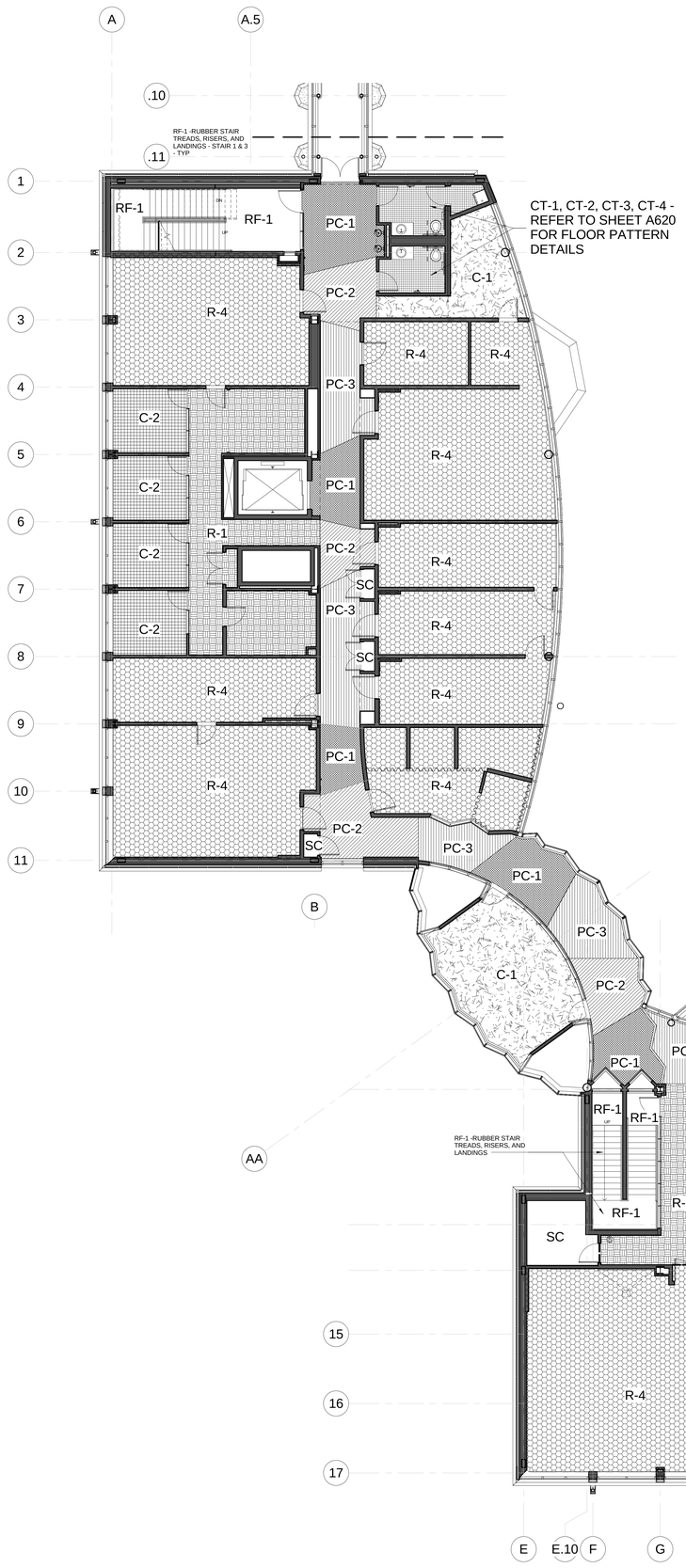
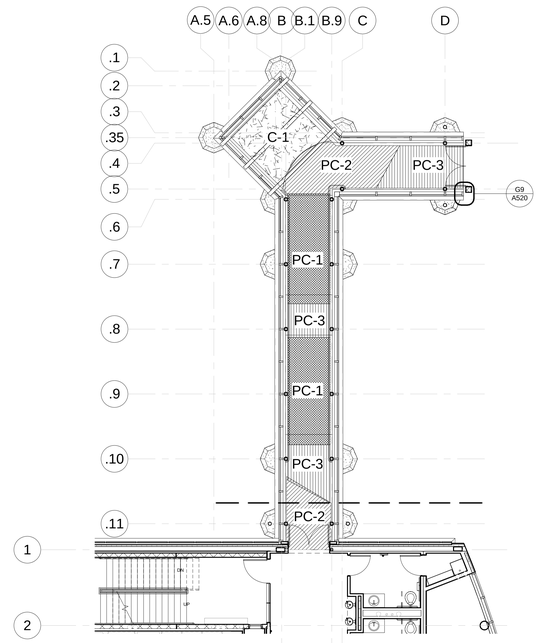
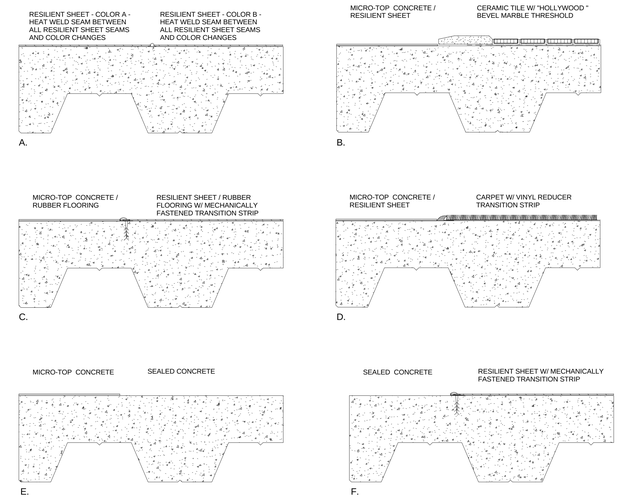


M1 FLOOR FINISH PLAN - THIRD FLOOR
1/8" = 1'-0"



1 FLOOR FINISH PLAN - BRIDGE TO JENNINGS
1/8" = 1'-0"



D10 THIRD LEVEL TYPICAL FLOORING TRANSITION DETAILS
3" = 1'-0"

FLOOR FINISH - GENERAL NOTES

1 - ALL TRANSITIONS BETWEEN DIS-SIMILAR FLOOR FINISHES TO OCCUR AT CENTERLINE OF DOOR - CLOSED POSITION - UNLESS SHOWN OTHERWISE ON THE FLOOR FINISH FLOOR PLANS

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FLOOR FINISH - GENERAL NOTES
1/16" = 1'-0"

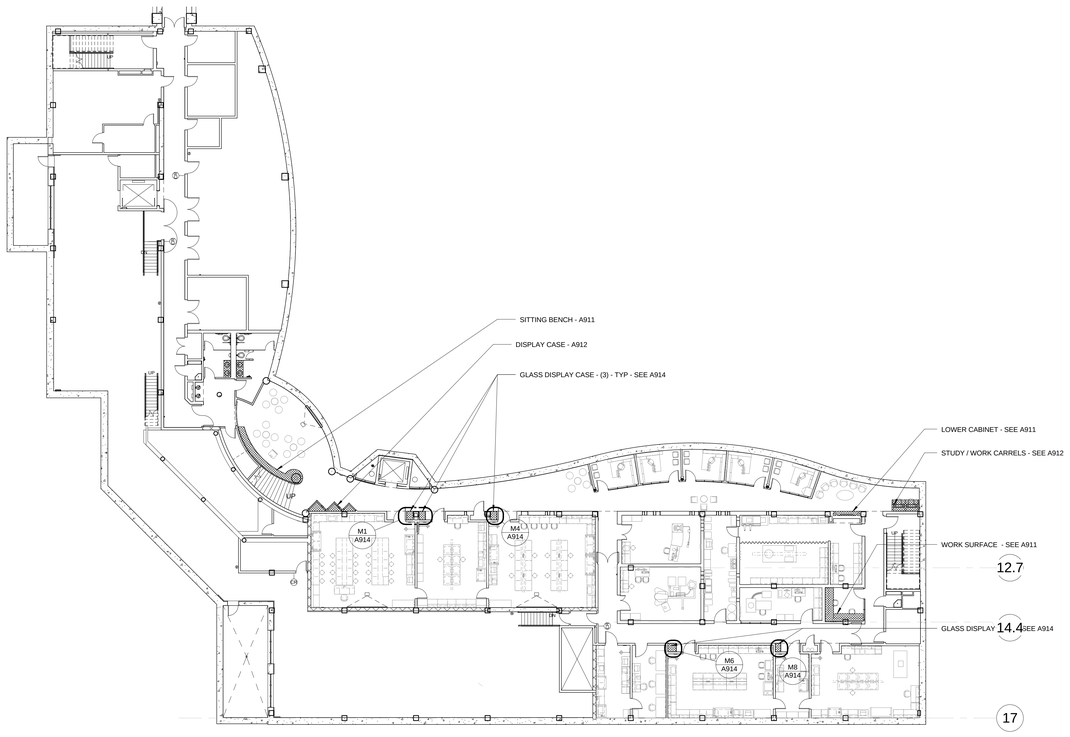
FLOOR FINISH LEGEND

	PT-1 PORCELAIN PAVER TILE
LAY-OUT FOR GENERAL PATTERN, QUANTITY AND DESIGN INTENT - ARCHITECT TO REVIEW AND ADJUST IN FIELD	PC-1 CEMENTIOUS MICRO-TOP OVERLAY
LAY-OUT FOR GENERAL PATTERN, QUANTITY AND DESIGN INTENT - ARCHITECT TO REVIEW AND ADJUST IN FIELD	PC-2 CEMENTIOUS MICRO-TOP OVERLAY
LAY-OUT FOR GENERAL PATTERN, QUANTITY AND DESIGN INTENT - ARCHITECT TO REVIEW AND ADJUST IN FIELD	PC-3 CEMENTIOUS MICRO-TOP OVERLAY
	C-1 CARPET TILE
	C-2 CARPET TILE
	C-3 CARPET TILE
	R-1 RESILIENT TILE FLOOR COLOR 1 & 2 PATTERN TO BE DETERMINED
NOT USED	R-2 RESILIENT TILE FLOOR
NOT USED	R-3 RESILIENT TILE FLOOR
	R-4 RESILIENT TILE FLOOR COLOR 3 & 4 PATTERN TO BE DETERMINED
	CT-1 CERAMIC TILE
	CT-2 CERAMIC TILE
	CT-3 CERAMIC TILE
	CT-4 CERAMIC TILE
	WOM-1 WALK OFF MAT - ABRASIVE
	WOM-2 WALK OFF MAT - CARPET
	E-1 EPOXY FLOOR
	SC SEALED CONCRETE
	RF-1 RUBBER FLOORING

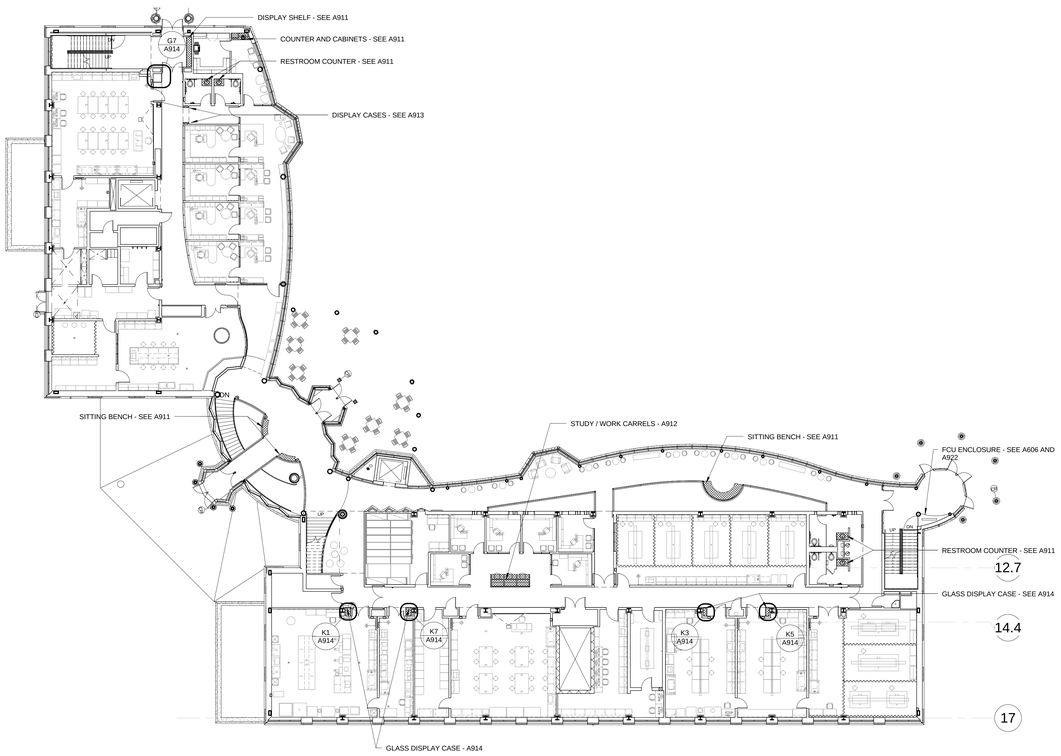
FLOOR FINISH LEGEND
1/8" = 1'-0"

drawing title: THIRD FLOOR – FLOOR FINISH PLAN	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES
REVISIONS: mark / date / description; 11-21-2012 Bid Documents	DRAWING: Centerbrook Architects and Planners, LLP, 67 Main Street, Post Office Box 955, Centerbrook, Connecticut 06409-0955
SCSU NEW ACADEMIC LABORATORY BUILDING	CAD: 1393; project no.: BI-RS-283
volume: 1 of 2	date: 11-21-2012
scale: As indicated	drawn by: BGA/KEC
approved by: RM/JBR	drawing: A905

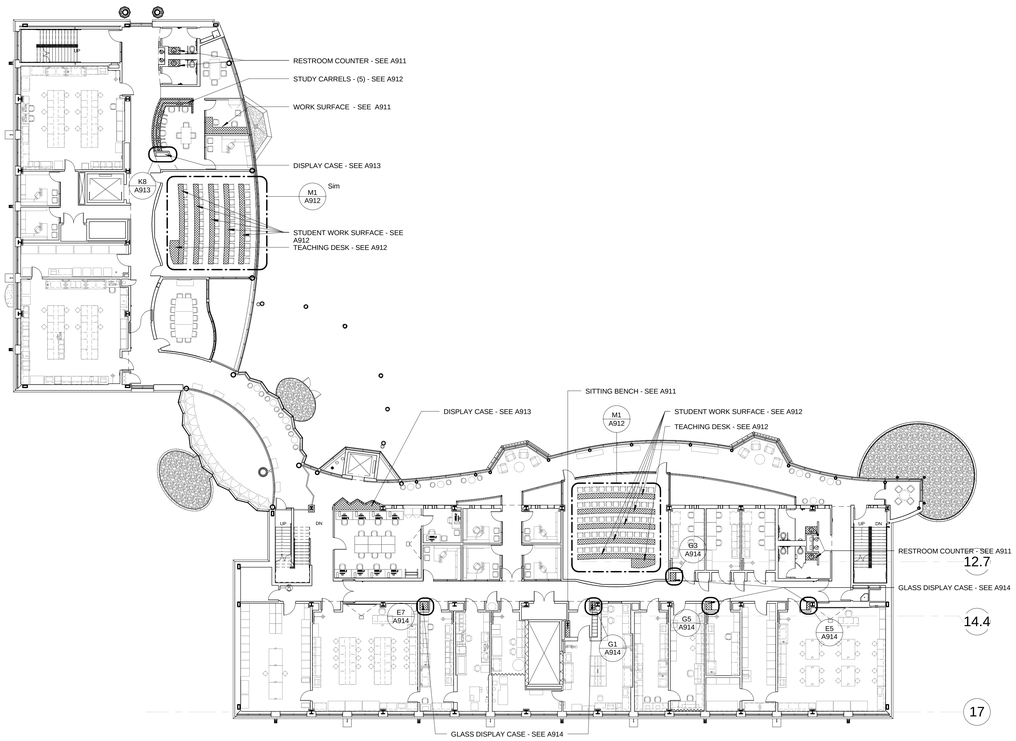
Clifford Lloyd Field 79 LSQ/ New Academic and Laboratory Building 11 Comp_Graphics 11/21/2012 12:45:55 PM



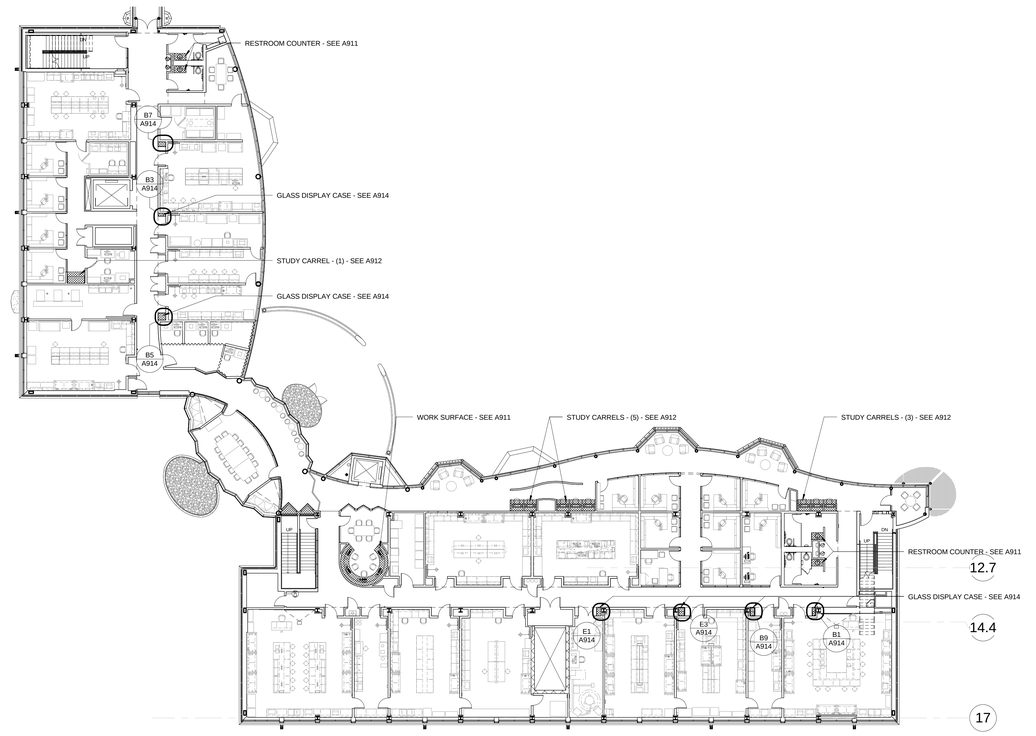
F1 MILLWORK KEY PLAN - LOWER LEVEL
1/16" = 1'-0"



F8 MILLWORK KEY PLAN - GROUND LEVEL
1/16" = 1'-0"



M1 MILLWORK KEY PLAN - SECOND FLOOR
1/16" = 1'-0"



M8 MILLWORK KEY PLAN - THIRD FLOOR
1/16" = 1'-0"

MILLWORK KEY FLOOR PLANS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		1 of 2
REVISIONS: mark / date / description			date: 11-21-2012
11-21-2012 Bid Documents	DRAWING PREPARED BY: Centerbrook Architects and Planners, LLP, 67 Main Street, Post Office Box 955, Centerbrook, Connecticut 06409-0955		scale: 1/16" = 1'-0"
	project: SCSU NEW ACADEMIC LABORATORY BUILDING		drawn by: BGA
			checked by: RMUBR
	CAD no. 1393	project no. BI-RS-283	drawing no. A910

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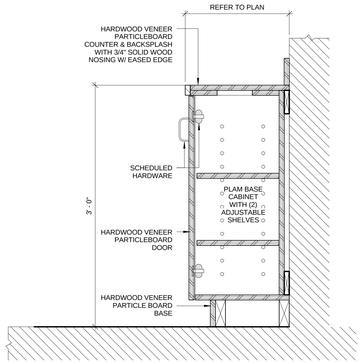
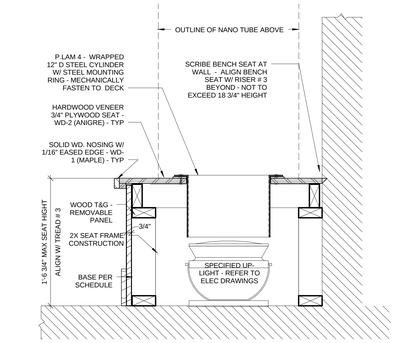
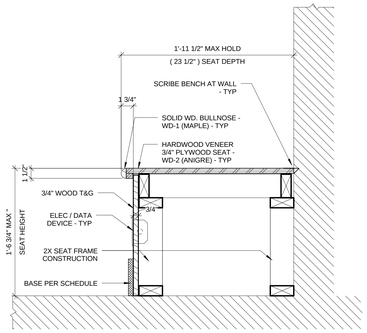


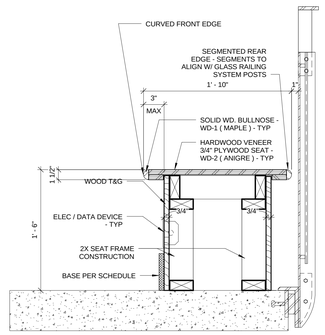
C1 LOUNGE 048 CABINET SECTION
1 1/2" = 1'-0"



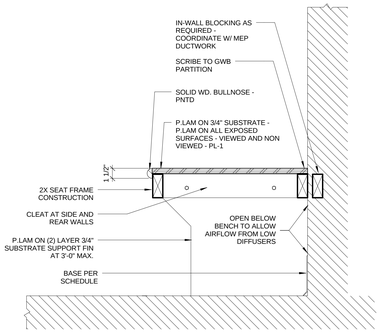
C3 BENCH DETAIL AT NANOTUBE - KNUCKLE LOUNGE 024
1 1/2" = 1'-0"



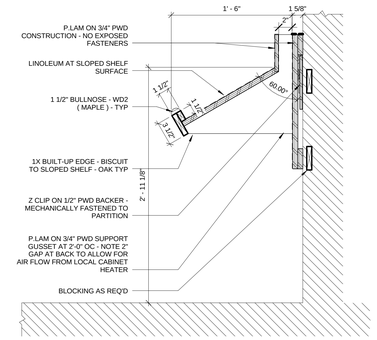
C6 TYPICAL BENCH DETAIL - KNUCKLE LOUNGE 024
1 1/2" = 1'-0"



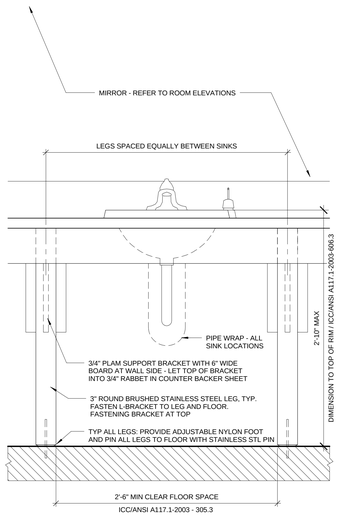
C9 TYPICAL BENCH DETAIL - KNUCKLE LOBBY 112
1 1/2" = 1'-0"



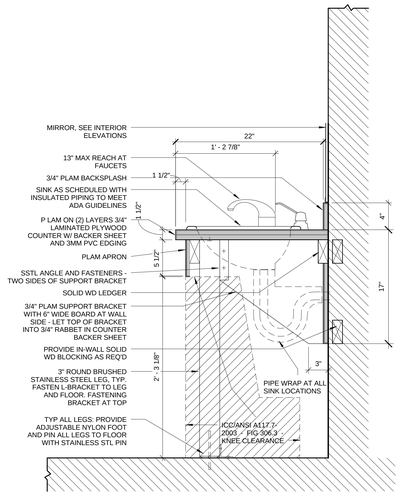
C10 TYPICAL BENCH DETAIL - VESTIBULE 233B
1 1/2" = 1'-0"



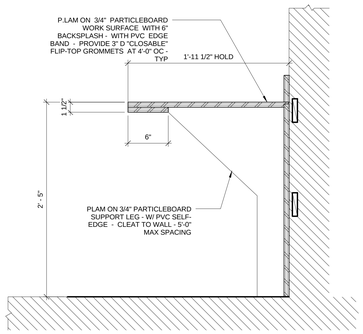
C14 TYPICAL SHELF DETAIL - CORRIDOR 101
1 1/2" = 1'-0"



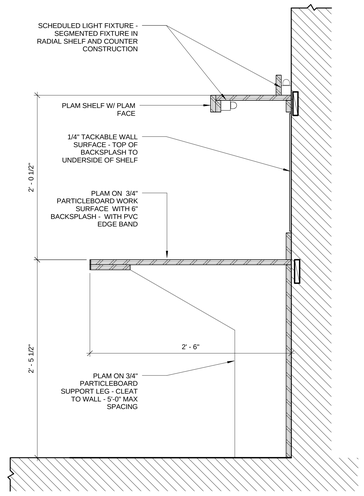
G1 SINK COUNTER ELEVATION (TYPICAL)
1 1/2" = 1'-0"



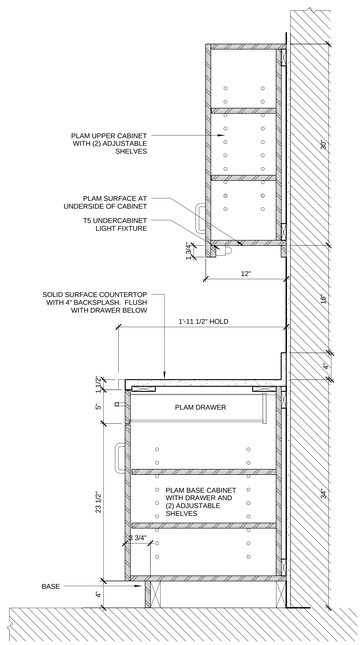
G3 SINK COUNTER SECTION (TYPICAL)
1 1/2" = 1'-0"



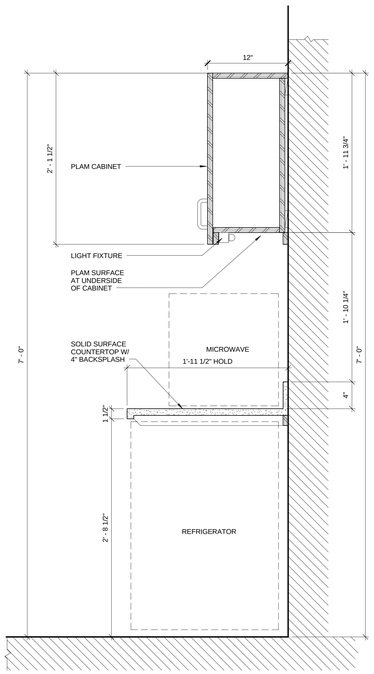
G11 TECHNICAL STAFF RM 040 & 208A COUNTER SECTION
1 1/2" = 1'-0"



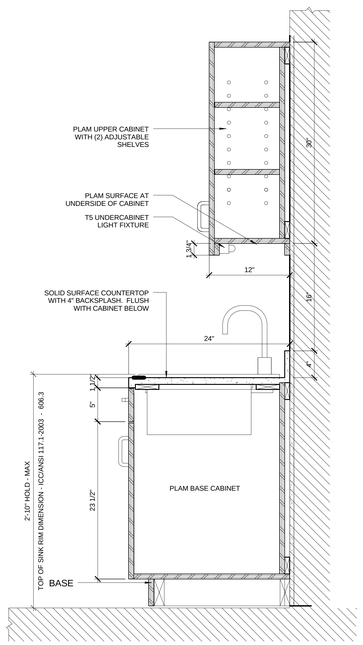
G13 ASTRONOMY CONTROL ROOM COUNTER SECTION
1 1/2" = 1'-0"



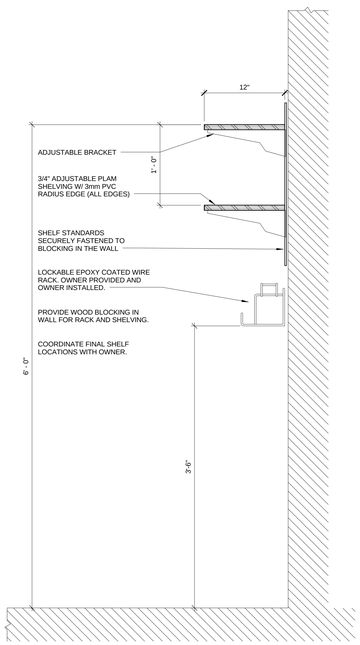
M1 34" HIGH DRAWER/CABINET & UPPER CABINET SECTION
1 1/2" = 1'-0"



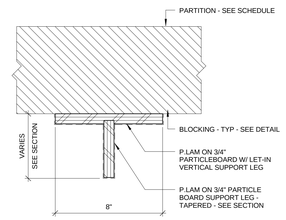
M3 COUNTER SECTION AT REFRIGERATOR AND MICROWAVE
1 1/2" = 1'-0"



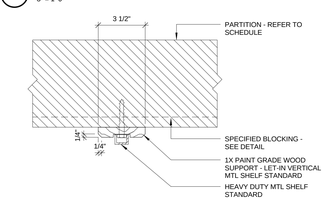
M6 SINK & UPPER CABINET SECTION
1 1/2" = 1'-0"



M9 TYPICAL CUSTODIAL CLOSET SHELVING
1 1/2" = 1'-0"



K14 TECHNICAL STAFF 040 COUNTER SECTION SUPPORT DETAIL
3" = 1'-0"



L14 TYPICAL CUSTODIAL CLOSET SHELVING SUPPORT DETAIL
3" = 1'-0"

drawing title: MILLWORK DETAILS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393 | project no. BI-RS-283

volume: 1 of 2
date: 11-21-2012
scale: As indicated
drawn by: EL/BGA
reviewed by: RM/JBR
drawing no. A911

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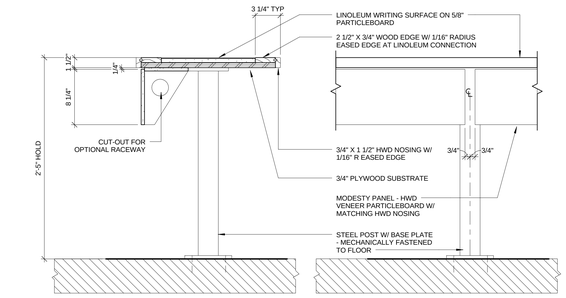
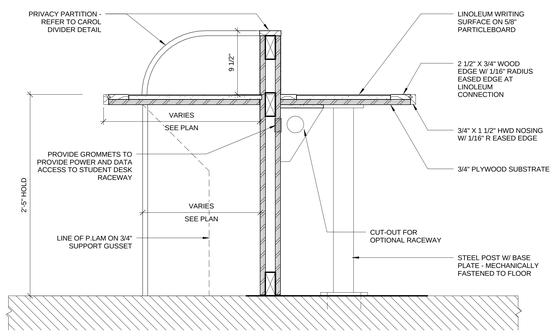
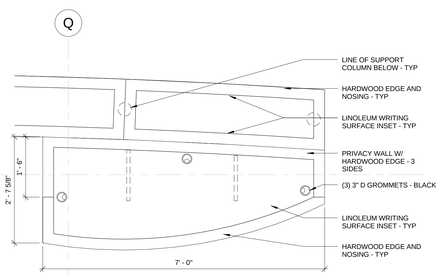


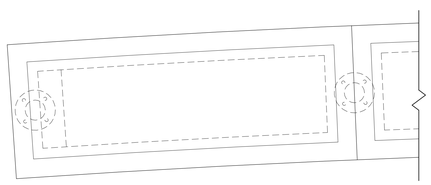
C1 CLASSROOM COUNTER SECTION
1 1/2" = 1'-0"



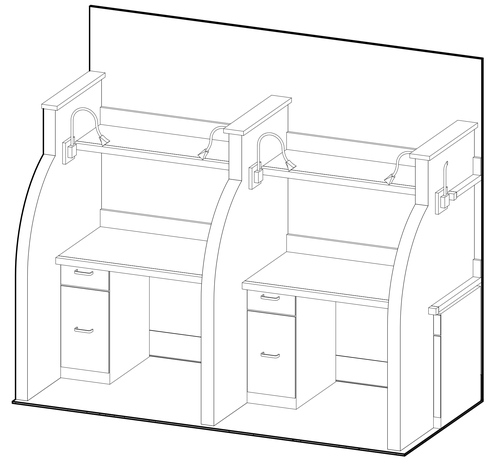
E1 CLASSROOM / TEACHING PODIUM COUNTER SECTION
1 1/2" = 1'-0"



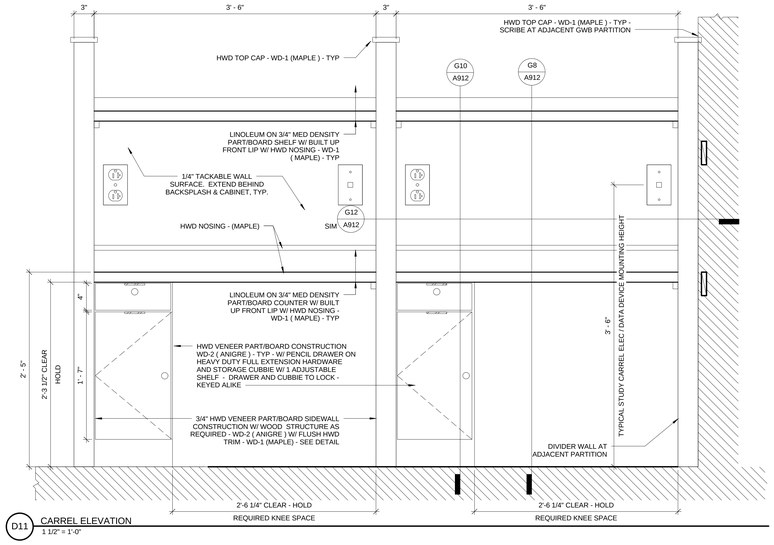
G1 CLASSROOM 222 - TEACHING PODIUM
3/4" = 1'-0"



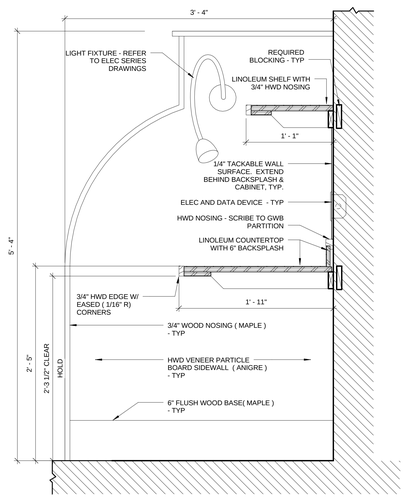
G4 CLASSROOM COUNTER PLAN
1 1/2" = 1'-0"



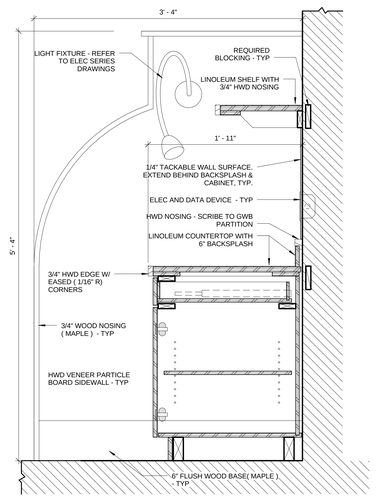
D8 STUDY CARREL AXONOMETRIC - FOR REFERENCE ONLY



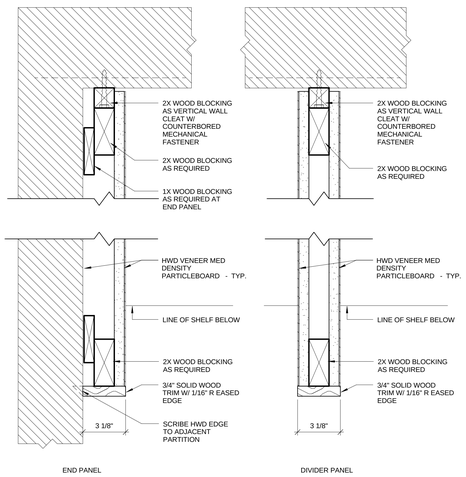
D11 CARREL ELEVATION
1 1/2" = 1'-0"



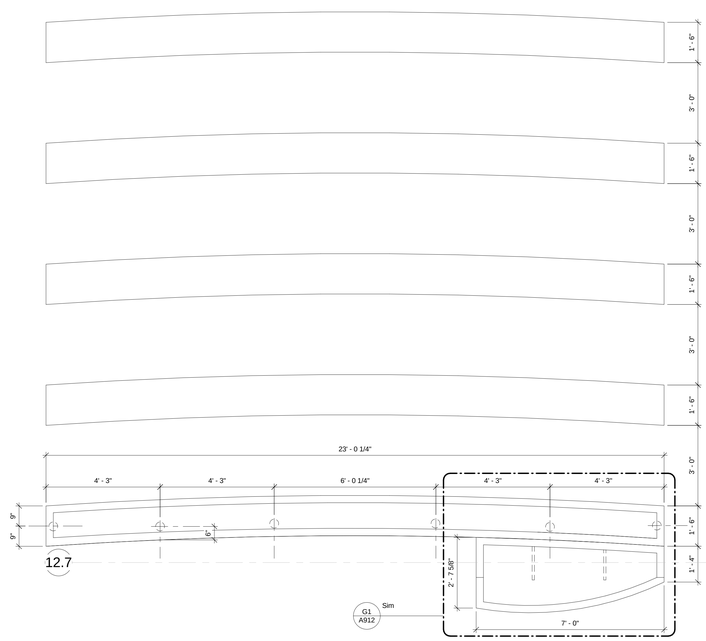
G8 CARREL SECTION
1 1/2" = 1'-0"



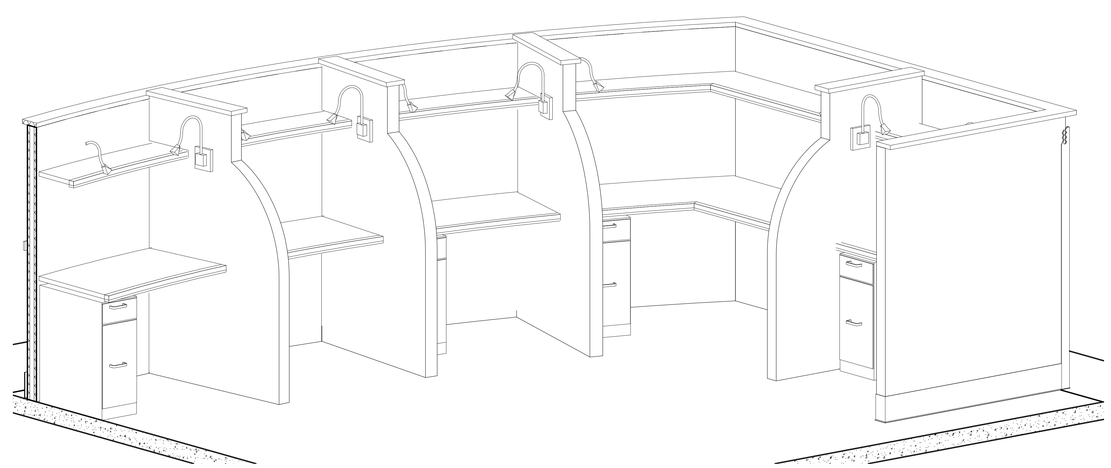
G10 CARREL SECTION AT STORAGE PEDESTAL
1 1/2" = 1'-0"



G12 CARREL END / DIVIDER PANEL DETAIL
3" = 1'-0"



M1 MILLWORK PLAN DETAIL - STUDENT DESK AND TEACHING PODIUM - RM 210 & 222
1/2" = 1'-0"



L8 STUDY CARREL AXONOMETRIC AT RM 208 - FOR REFERENCE ONLY

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project title
MILLWORK DETAILS – STUDY CARRELS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

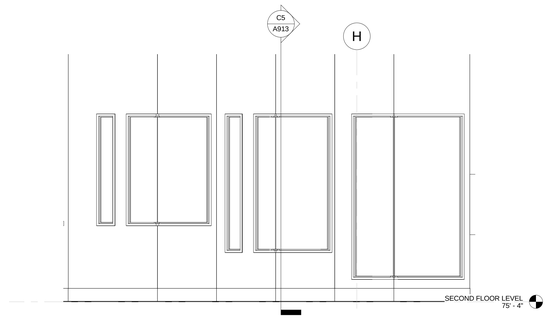
STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

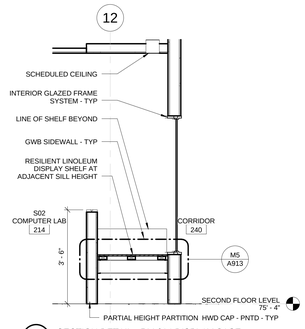
project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

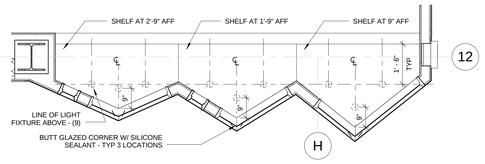
volume 1 of 2
date 11-21-2012
scale As indicated
drawn by EL/BGA
checked by RM/JBR
drawing no. A912



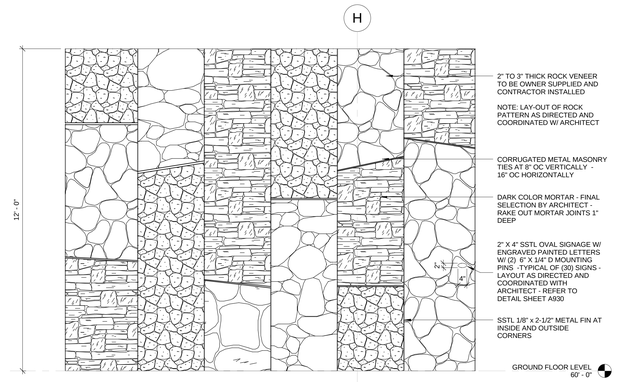
C1 MILLWORK ELEVATION - 2LS - DISPLAY 214
1/2" = 1'-0"



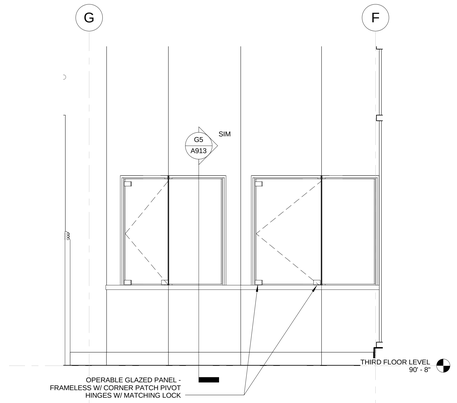
C5 SECTION DETAIL - RM 214 DISPLAY CASE
1/2" = 1'-0"



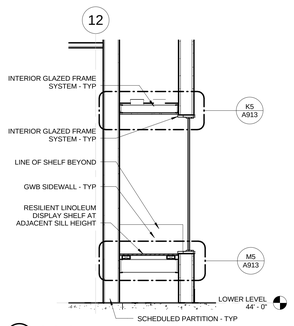
D1 MILLWORK PLAN DETAIL - 2LS - DISPLAY 214
1/2" = 1'-0"



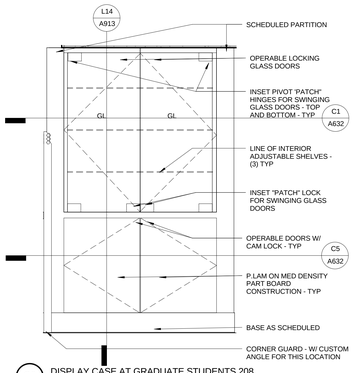
C11 CORRIDOR S. WING - 134 - ROCK DISPLAY WALL
1/2" = 1'-0"



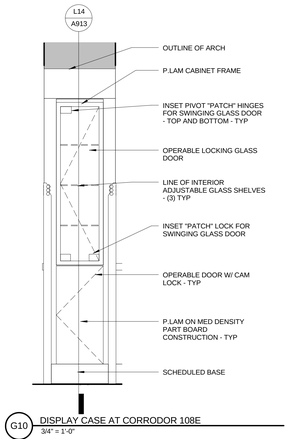
G1 MILLWORK ELEVATION - 3LS - DISPLAY 321
1/2" = 1'-0"



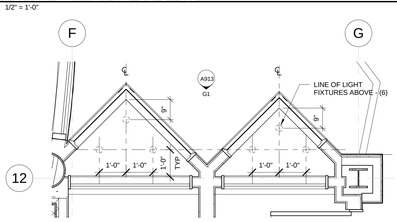
G5 SECTION DETAIL - TYPICAL DISPLAY CASE
1/2" = 1'-0"



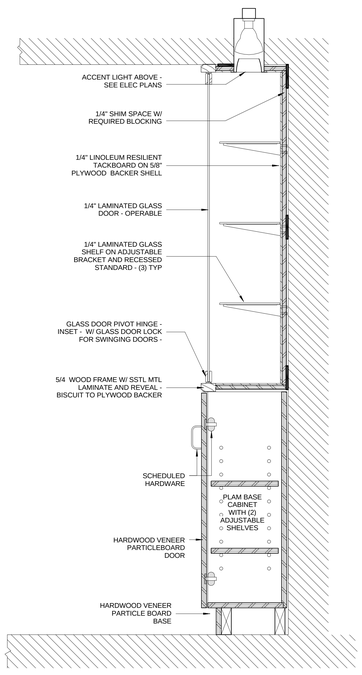
G8 DISPLAY CASE AT GRADUATE STUDENTS 208
3/4" = 1'-0"



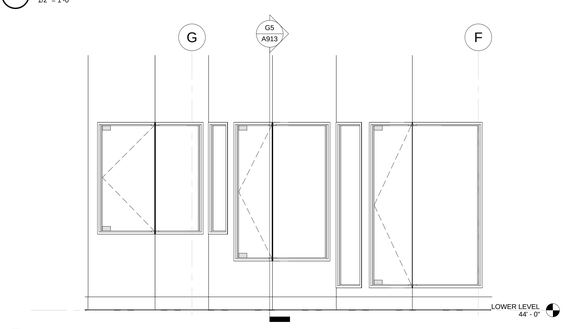
G10 DISPLAY CASE AT CORRODOR 108E
3/4" = 1'-0"



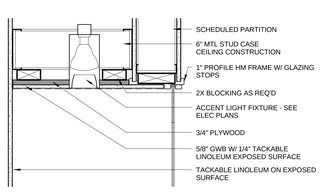
J1 MILLWORK PLAN DETAIL - 3LS - DISPLAY 321
1/2" = 1'-0"



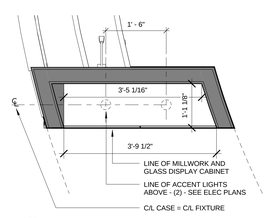
L14 INSET DISPLAY CASE - DETAIL VIEW - SECTION
1 1/2" = 1'-0"



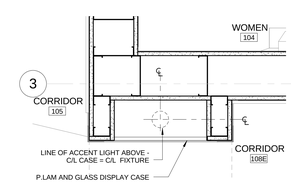
L1 DISPLAY CASE ELEVATION - CORRIDOR 026
1/2" = 1'-0"



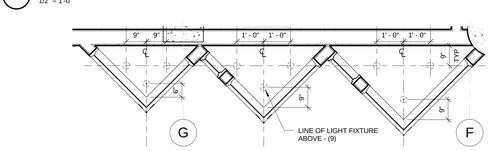
K5 MILLWORK SECTION DETAIL - GLS - DISPLAY 116 - HEAD
1 1/2" = 1'-0"



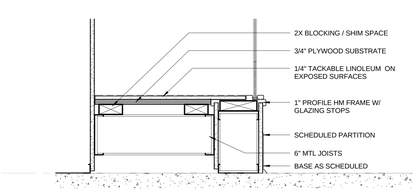
K8 DISPLAY CASE - SECOND FLOOR - GRADUATE STUDIES RM 208
3/4" = 1'-0"



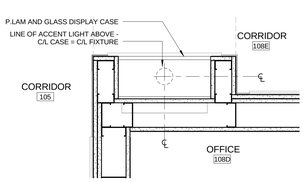
K10 PLAN DETAIL - GLN - ARCH 108E - EAST JAMB
1 1/2" = 1'-0"



M1 MILLWORK PLAN DETAIL - LLS - DISPLAY 013
1/2" = 1'-0"



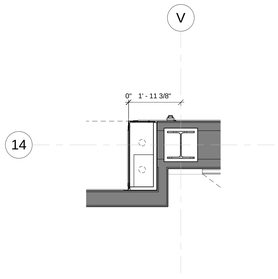
M5 MILLWORK SECTION DETAIL - GLS - DISPLAY 116 - SILL
1 1/2" = 1'-0"



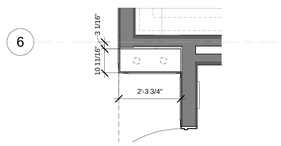
M10 PLAN DETAIL - GLN - ARCH 108E - WEST JAMB
1 1/2" = 1'-0"

Drawing title: MILLWORK DISPLAY CASES ROCK EXHIBIT WALL	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		volume: 1 of 2
REVISIONS: mark / date / description			date: 11-21-2012
1-21-2012 Bid Documents	DRAWING: Centerbrook Architects and Planners, LLP, 67 Main Street, Post Office Box 955, Centerbrook, Connecticut 06409-0955		scale: As indicated
	PROJECT: SCSU NEW ACADEMIC LABORATORY BUILDING		drawn by: BGA
			checked by: RMJ/BR
	CAD file: 1393	project no.: BI-RS-283	number: A913

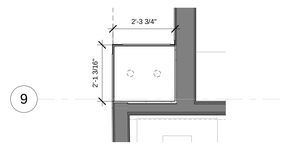
Clifford Lloyd Fitzl PE SCSU New Academic and Laboratory Building 43 Conway Lakemont
11/21/2012 1:30:54 PM



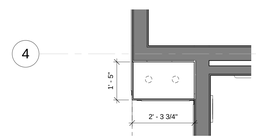
B1 DISPLAY CASE - THIRD FLOOR - V/14
1/2" = 1'-0"



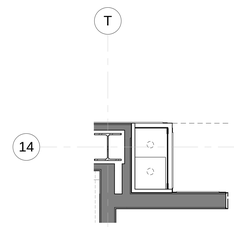
B3 DISPLAY CASE - THIRD FLOOR NORTH WING - CL6
1/2" = 1'-0"



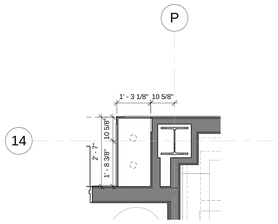
B5 DISPLAY CASE - THIRD FLOOR NORTH WING - CL9
1/2" = 1'-0"



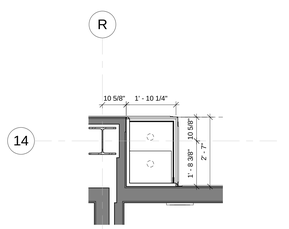
B7 DISPLAY CASE - THIRD FLOOR - C/4
1/2" = 1'-0"



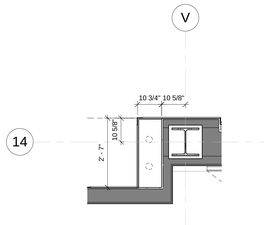
B9 DISPLAY CASE - THIRD FLOOR - T/14
1/2" = 1'-0"



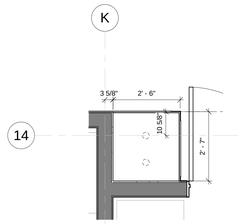
E1 DISPLAY CASE - THIRD FLOOR - P/14
1/2" = 1'-0"



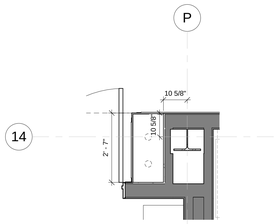
E3 DISPLAY CASE - THIRD FLOOR - R/14
1/2" = 1'-0"



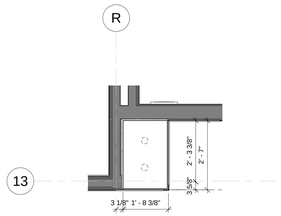
E5 DISPLAY CASE - SECOND FLOOR - V/14
1/2" = 1'-0"



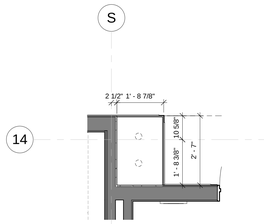
E7 DISPLAY CASE - SECOND FLOOR - K/14
1/2" = 1'-0"



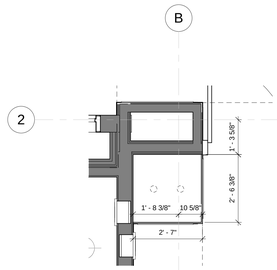
G1 DISPLAY CASE - SECOND FLOOR - P/14
1/2" = 1'-0"



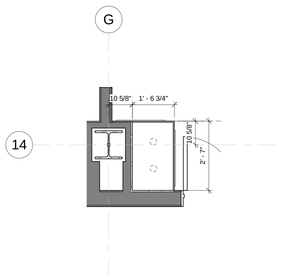
G3 DISPLAY CASE - SECOND FLOOR - R/13
1/2" = 1'-0"



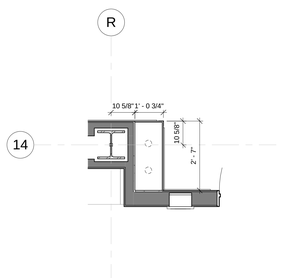
G5 DISPLAY CASE - SECOND FLOOR - S/14
1/2" = 1'-0"



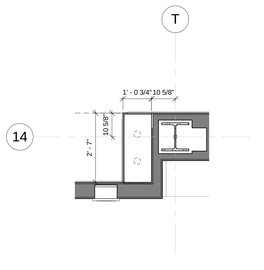
G7 DISPLAY CASE - GROUND LEVEL - B/2
1/2" = 1'-0"



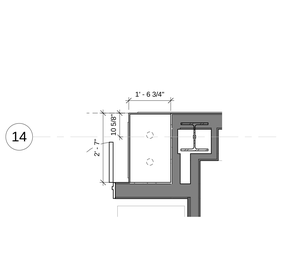
K1 DISPLAY CASE - GROUND LEVEL - G/14
1/2" = 1'-0"



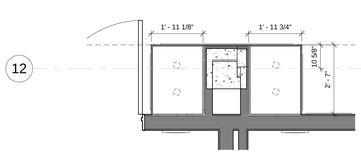
K3 DISPLAY CASE - GROUND LEVEL - R/14
1/2" = 1'-0"



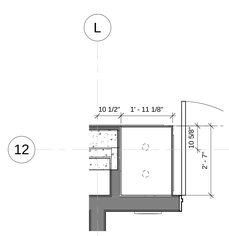
K5 DISPLAY CASE - GROUND LEVEL - T/14
1/2" = 1'-0"



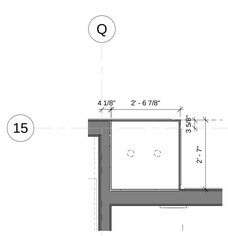
K7 DISPLAY CASE - GROUNG LEVEL - J/14
1/2" = 1'-0"



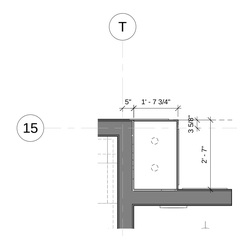
M1 DISPLAY CASE - LOWER LEVEL - J/12
1/2" = 1'-0"



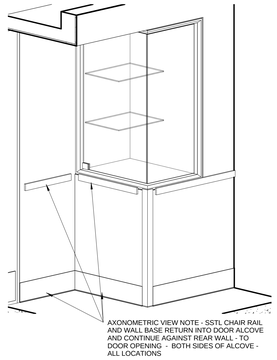
M4 DISPLAY CASE - LOWER LEVEL - L/12
1/2" = 1'-0"



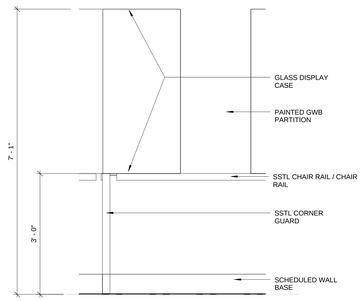
M6 DISPLAY CASE - LOWER LEVEL - Q/15
1/2" = 1'-0"



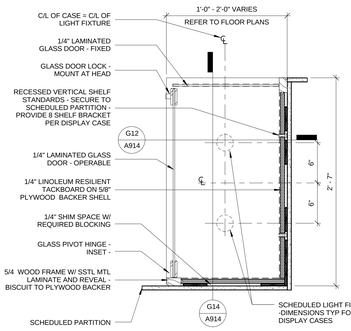
M8 DISPLAY CASE - LOWER LEVEL - T/15
1/2" = 1'-0"



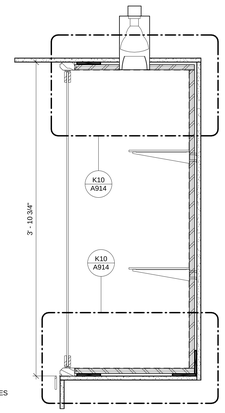
C11 GLASS DISPLAY CASE - AXONOMETRIC - FOR REFERENCE ONLY



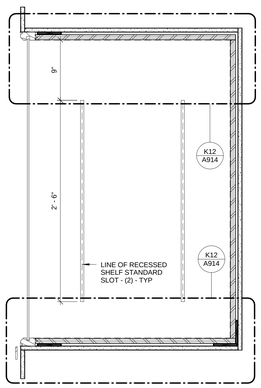
C12 TYPICAL CORNER DISPLAY CASE ELEVATION
3/4" = 1'-0"



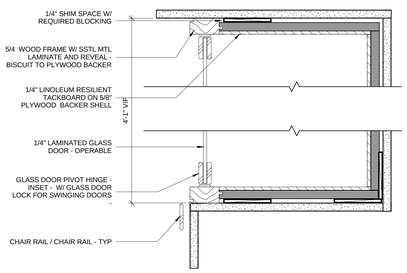
G10 CORNER DISPLAY CASE - PLAN VIEW
1 1/2" = 1'-0"



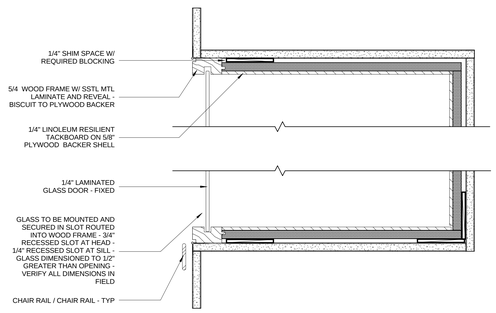
G12 CORNER DISPLAY CASE - SECTION VIEW 1
1 1/2" = 1'-0"



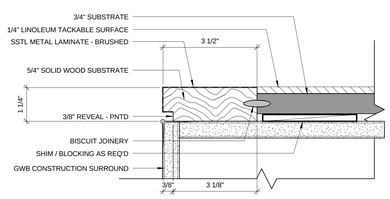
G14 CORNER DISPLAY CASE - SECTION VIEW 2
1 1/2" = 1'-0"



K10 CORNER DISPLAY CASE - DETAIL VIEW - SHORT SIDE
3" = 1'-0"



K12 CORNER DISPLAY CASE - DETAIL VIEW - LONG SIDE
3" = 1'-0"



M10 GLASS DISPLAY CASE - EDGE DETAIL
6" = 1'-0"

DRAWING TITLE: GLASS CORNER DISPLAY CASE DETAILS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES
REVISIONS: mark / date / description: 11-21-2012 Bid Documents	DRAWING PREPARED BY: Centerbrook Architects and Planners, LLP, 67 Main Street, Post Office Box 955, Centerbrook, Connecticut 06409-0955
project: SCSU NEW ACADEMIC LABORATORY BUILDING	CAD no. 1393; project no. BI-RS-283
SHEET NO.	1 of 2
DATE	11-21-2012
SCALE	As indicated
DRAWN BY	BGA
CHECKED BY	RMUBR
FINAL NO.	A914

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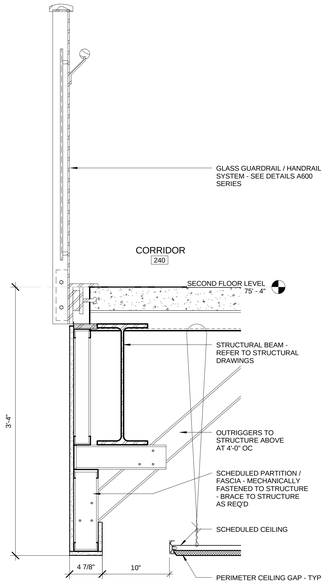
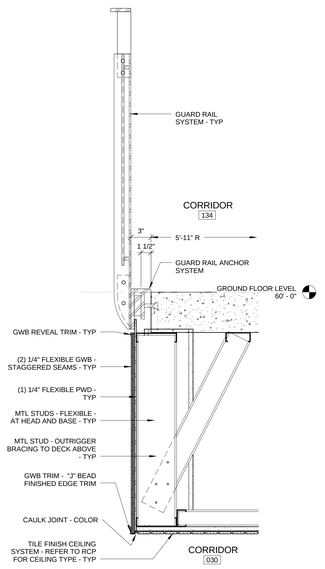
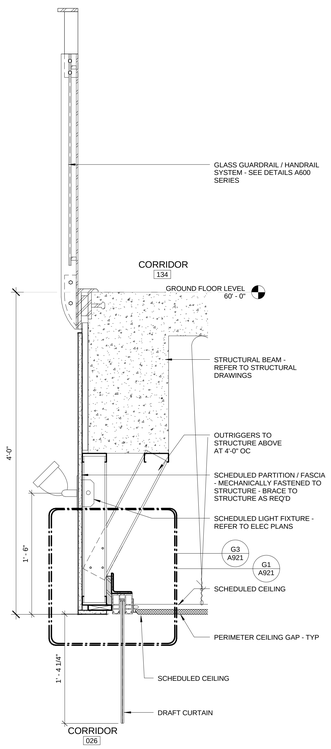


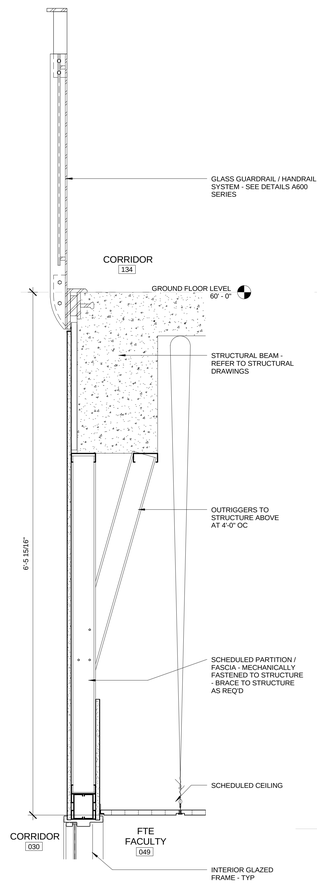
D1 SECTION DETAIL - ATRIUM SOFFIT AT SECOND FLOOR LEVEL
1 1/2" = 1'-0"

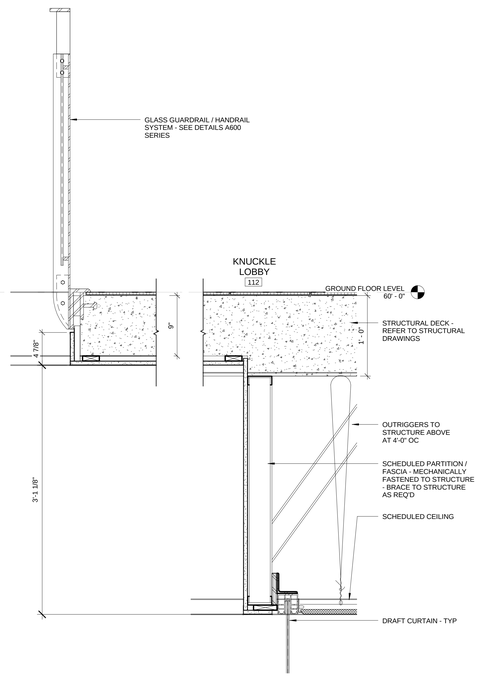


D3 SECTION DETAIL AT CORRIDOR 134 SEATING BALCONY
1 1/2" = 1'-0"

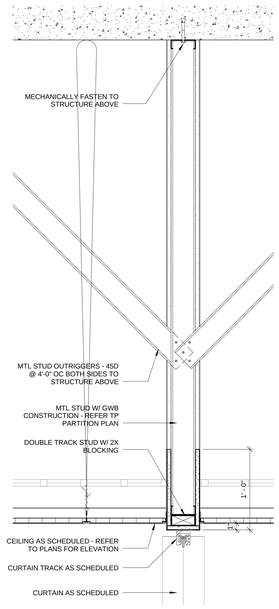


E5 SECTION DETAIL - LLS - DRAFT CURTAIN / FASCIA
1 1/2" = 1'-0"

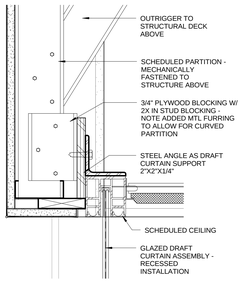




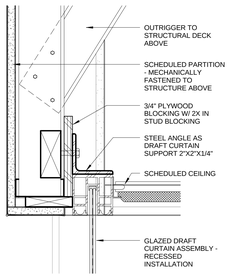
E10 SECTION DETAIL AT KNUCKLE LOWER LEVEL
1 1/2" = 1'-0"



E13 SECTION DETAIL AT CURTAIN TRACK SOFFIT
1 1/2" = 1'-0"

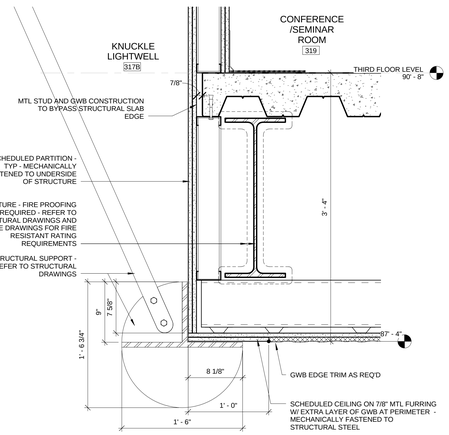


G1 SECTION DETAIL - DRAFT CURTAIN AT MTL FURRING
3" = 1'-0"

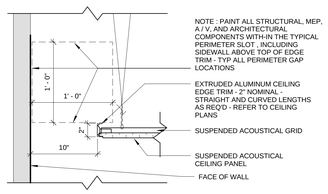


G3 SECTION DETAIL - DRAFT CURTAIN ASSEMBLY
3" = 1'-0"

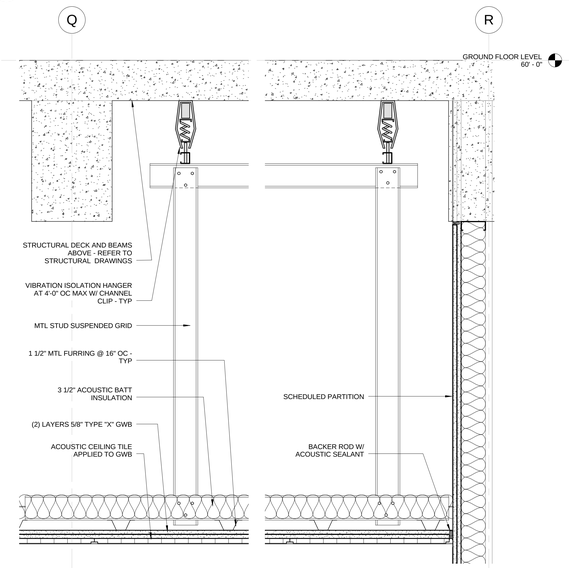
G7 SECTION DETAIL - LLS - FASCIA AT OFFICES
1 1/2" = 1'-0"



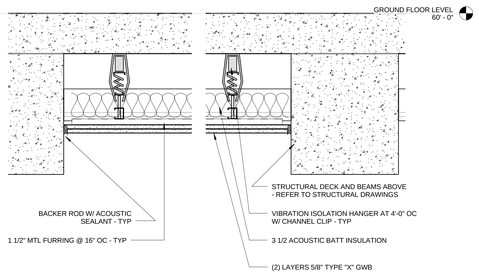
H13 SECTION DETAIL - CONF RM 319 - SPHERE CONNECTION
1 1/2" = 1'-0"



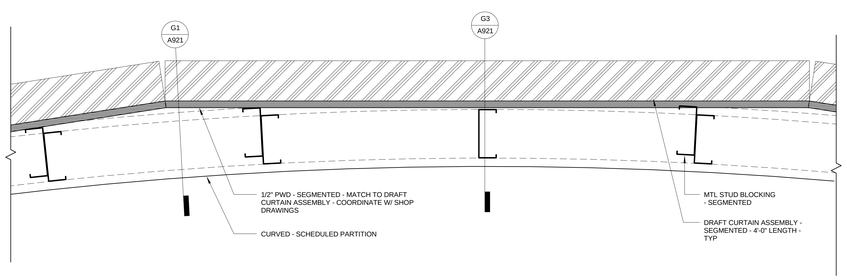
H1 SUSPENDED CEILING EDGE TRIM
1 1/2" = 1'-0"



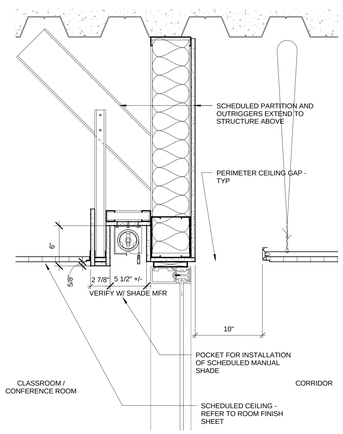
M9 SECTION DETAIL AT CEILING TYPE ACT-1
1 1/2" = 1'-0"



K13 SECTION DETAIL AT CEILING TYPE GWB-4
1 1/2" = 1'-0"



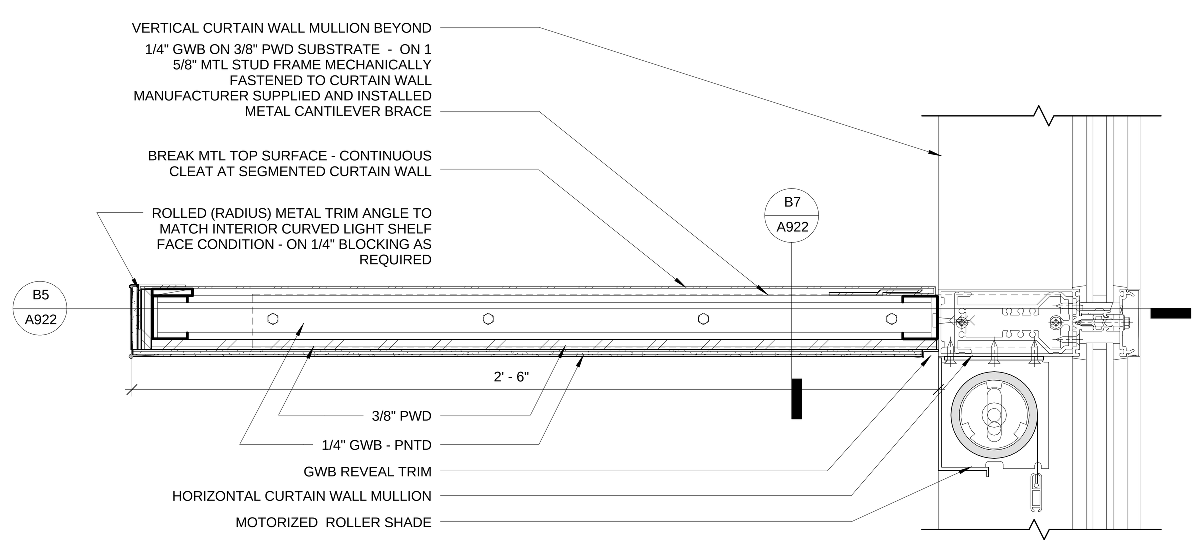
M1 PLAN VIEW - DRAFT CURTAIN ASSEMBLY - SEGMENTED
3" = 1'-0"



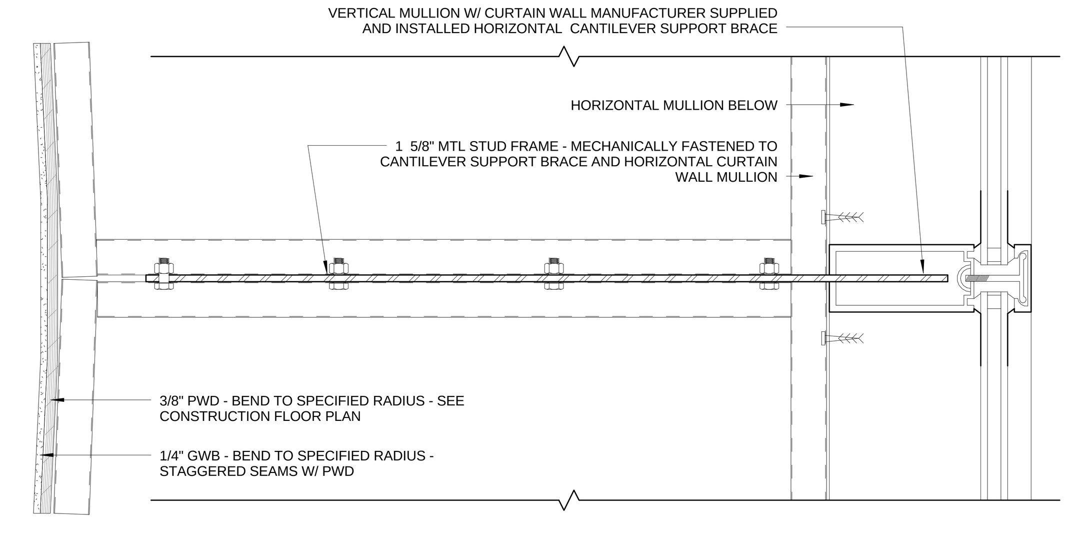
M7 SECTION DETAIL - SHADE POCKET @ CURTAINWALL
1 1/2" = 1'-0"

drawing title: INTERIOR DETAILS – CEILING	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES
REVISIONS: mark / date / description — 11-21-2012 Bid Documents	DRAWING PREPARED BY: Centerbrook Architects and Planners, LLP, 67 Main Street, Post Office Box 955, Centerbrook, Connecticut 06409-0955
project: SCSU NEW ACADEMIC LABORATORY BUILDING	CAD no. 1393 / project no. BI-RS-283
volume: 1 of 2	date: 11-21-2012
scale: As indicated	drawn by: BGA
checked by: RM/JBR	drawing no.: A921

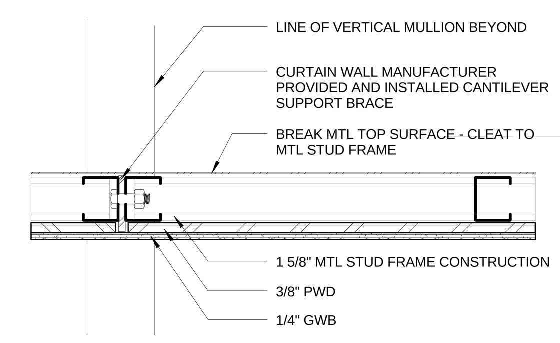
Collaborative Lab Facility 2013 SCSU New Academic and Laboratory Building A13 Central_Original.rvt 1/31/2012 2:44:27 PM



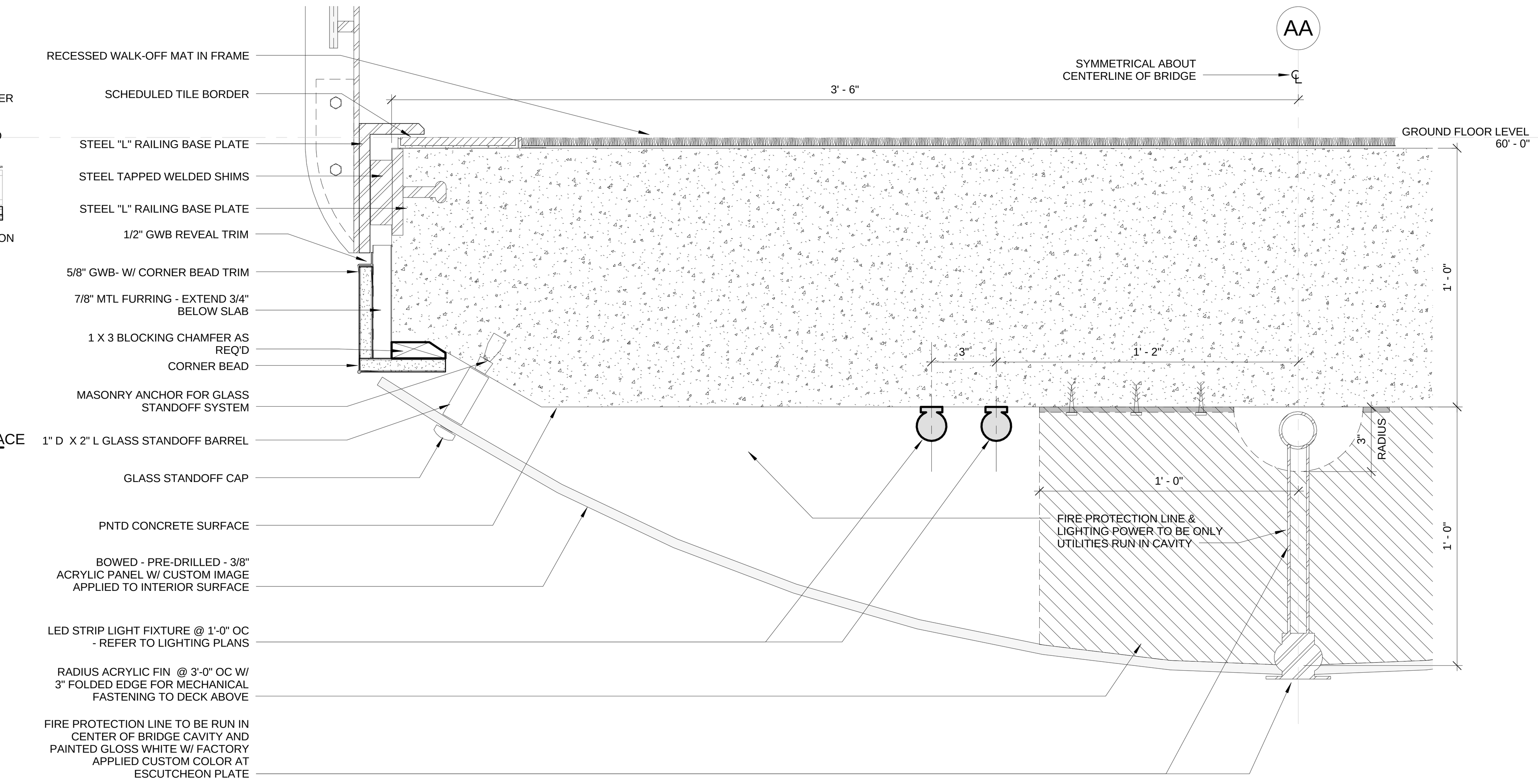
B1 SECTION DETAIL AT LIGHT SHELF
3" = 1'-0"



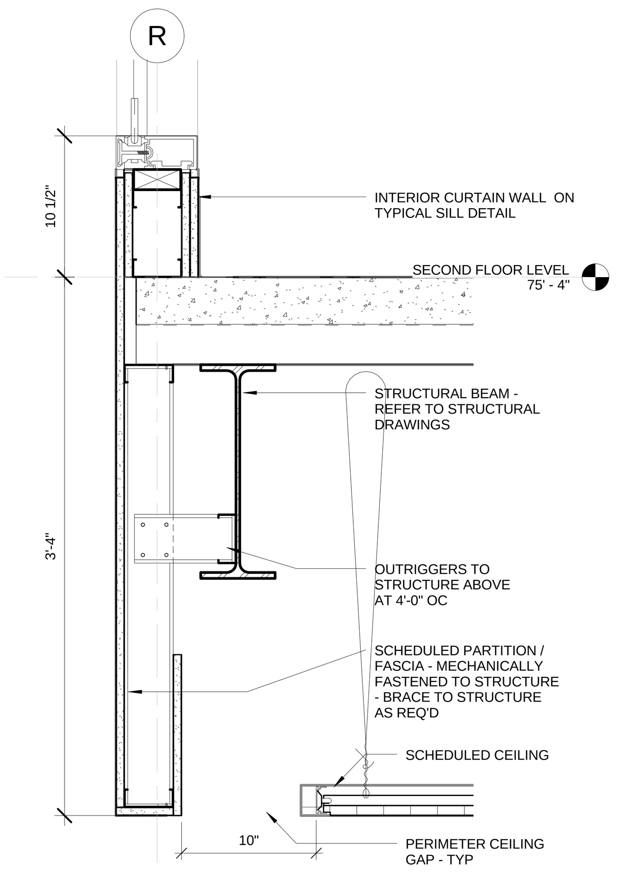
B5 PLAN DETAIL AT LIGHT SHELF
3" = 1'-0"



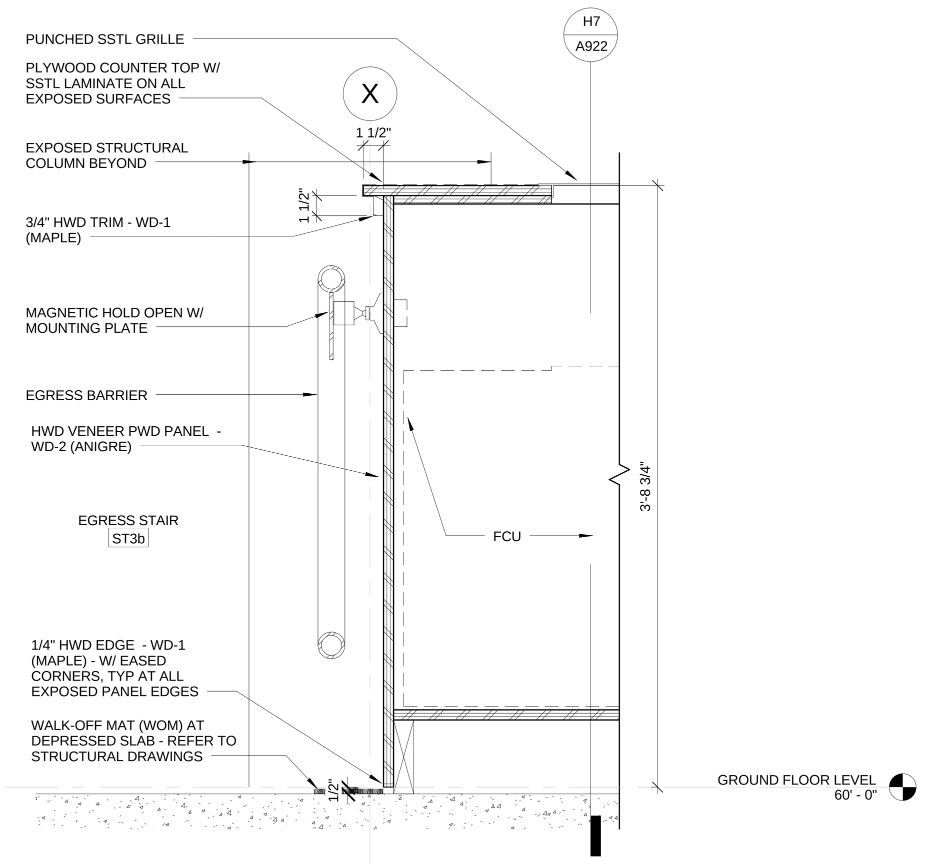
B7 SECTION DETAIL AT LIGHT SHELF - SUPPORT BRACE
3" = 1'-0"



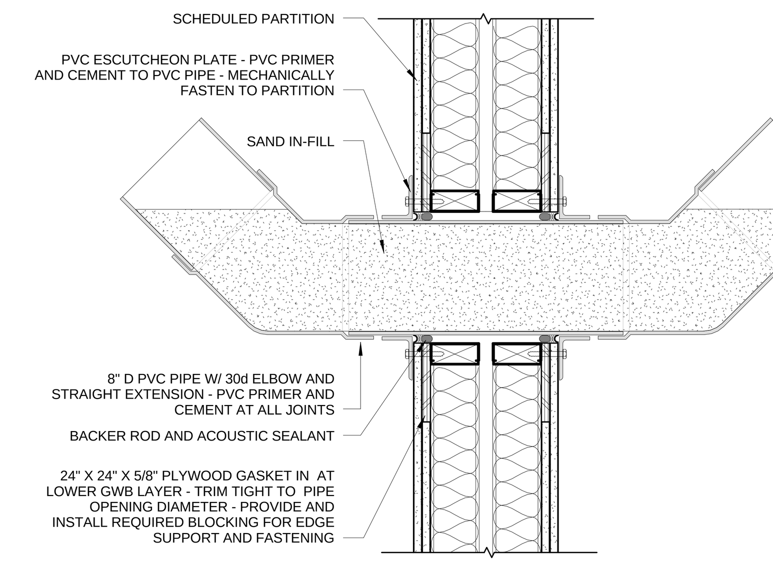
D10 SECTION DETAIL - GLN - KNUCKLE BRIDGE
3" = 1'-0"



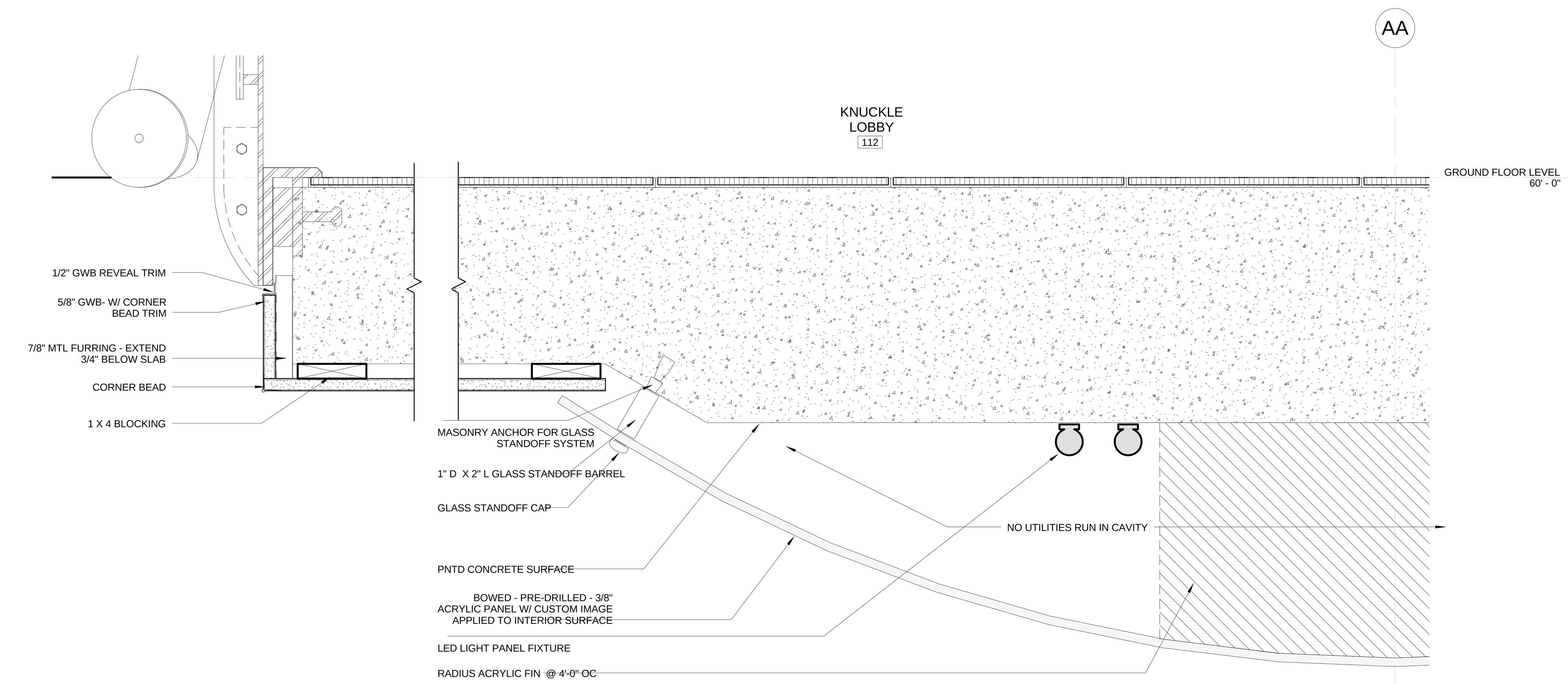
E1 SECTION DETAIL AT RM 222
1 1/2" = 1'-0"



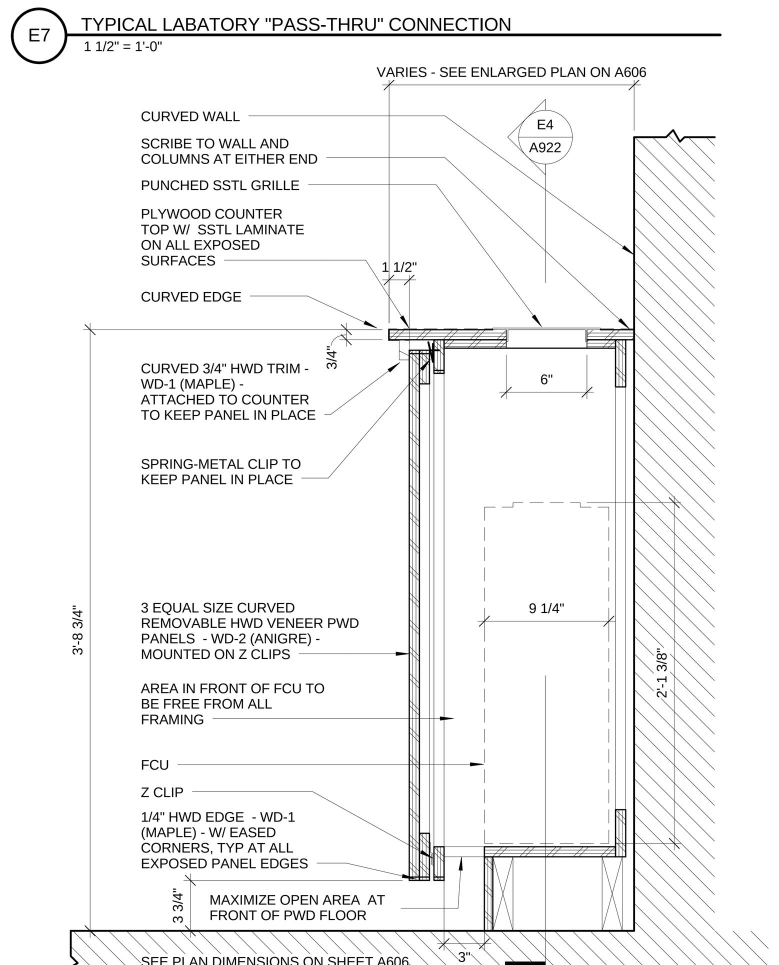
E4 SECTION DETAIL AT GROUND FLOOR X/12 EGRESS BARRIER
1 1/2" = 1'-0"



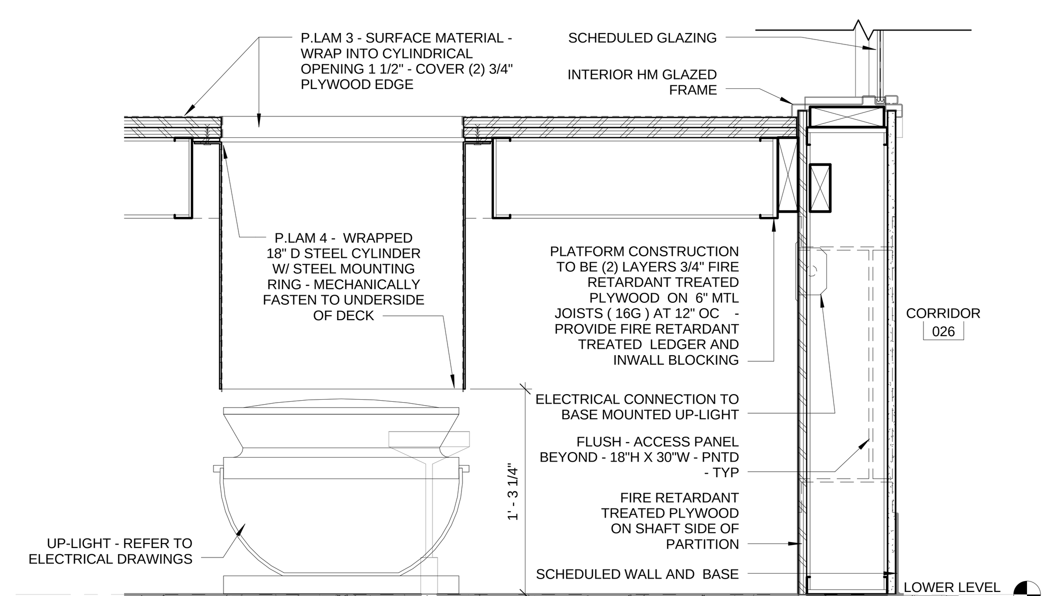
E7 TYPICAL LABATORY "PASS-THRU" CONNECTION
1 1/2" = 1'-0"



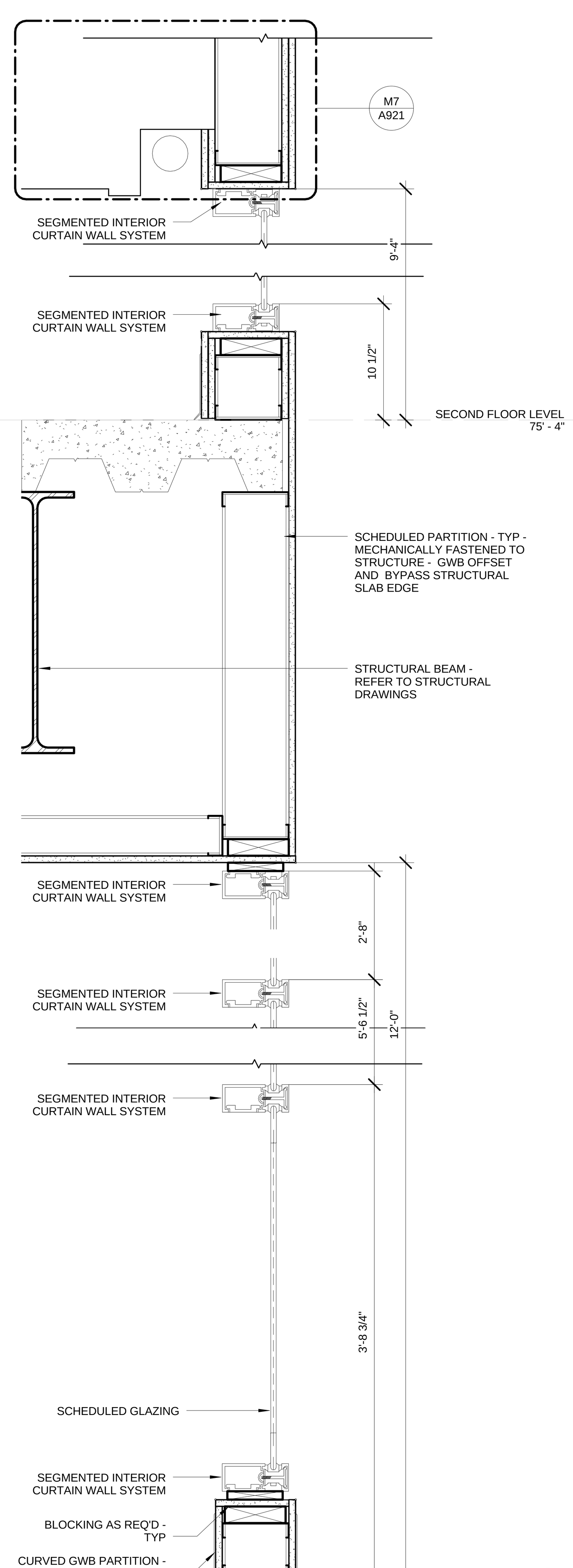
G10 SECTION DETAIL - GLN - KNUCKLE BRIDGE AT RADIUS FASCIA
3" = 1'-0"



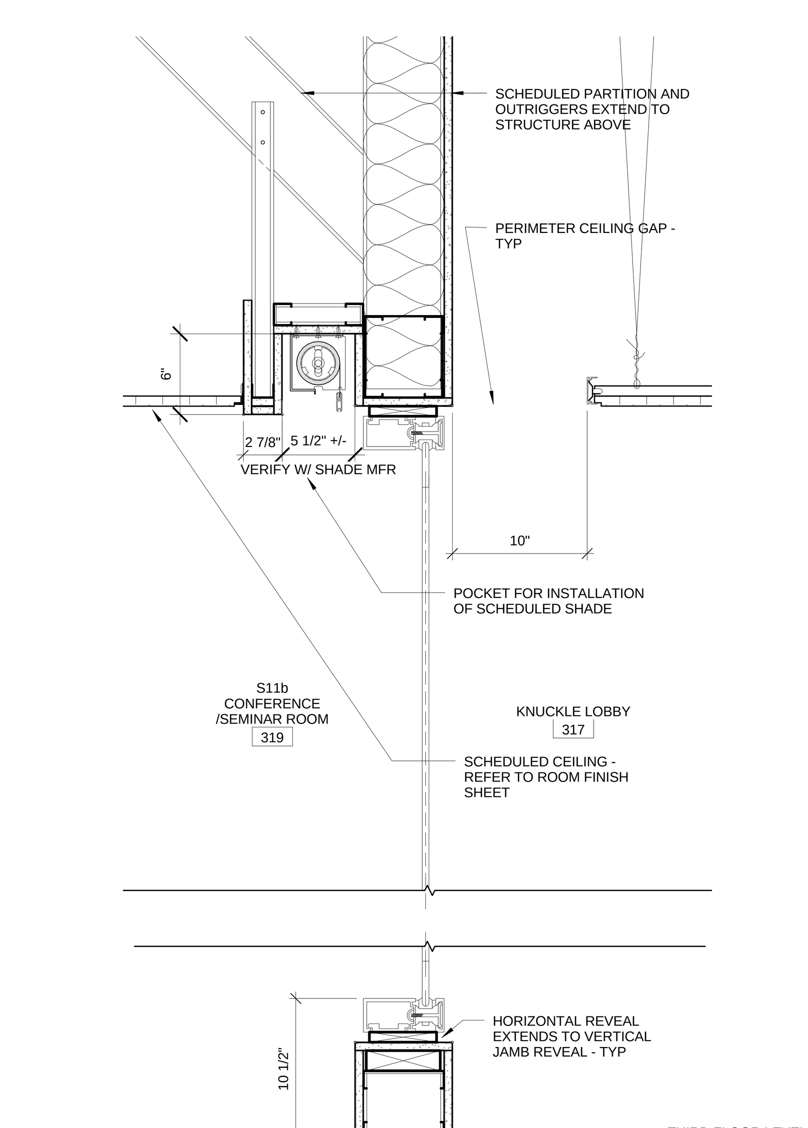
H7 SECTION DETAIL - FCU ENCLOSURE AT VESTIBULE 145
1 1/2" = 1'-0"



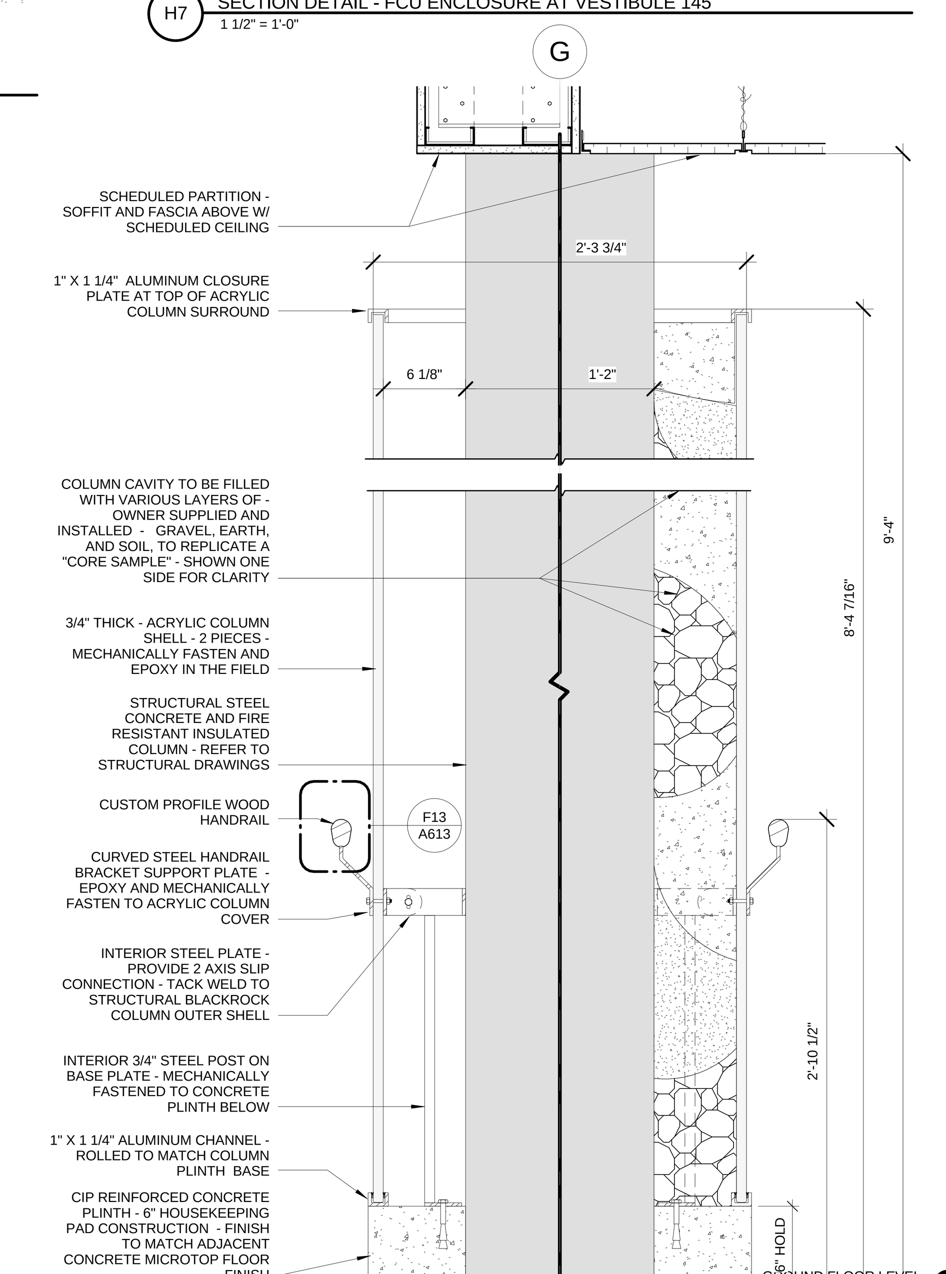
H4 SECTION DETAIL - DISPLAY SHAFT AT ELEVATOR #2
1 1/2" = 1'-0"



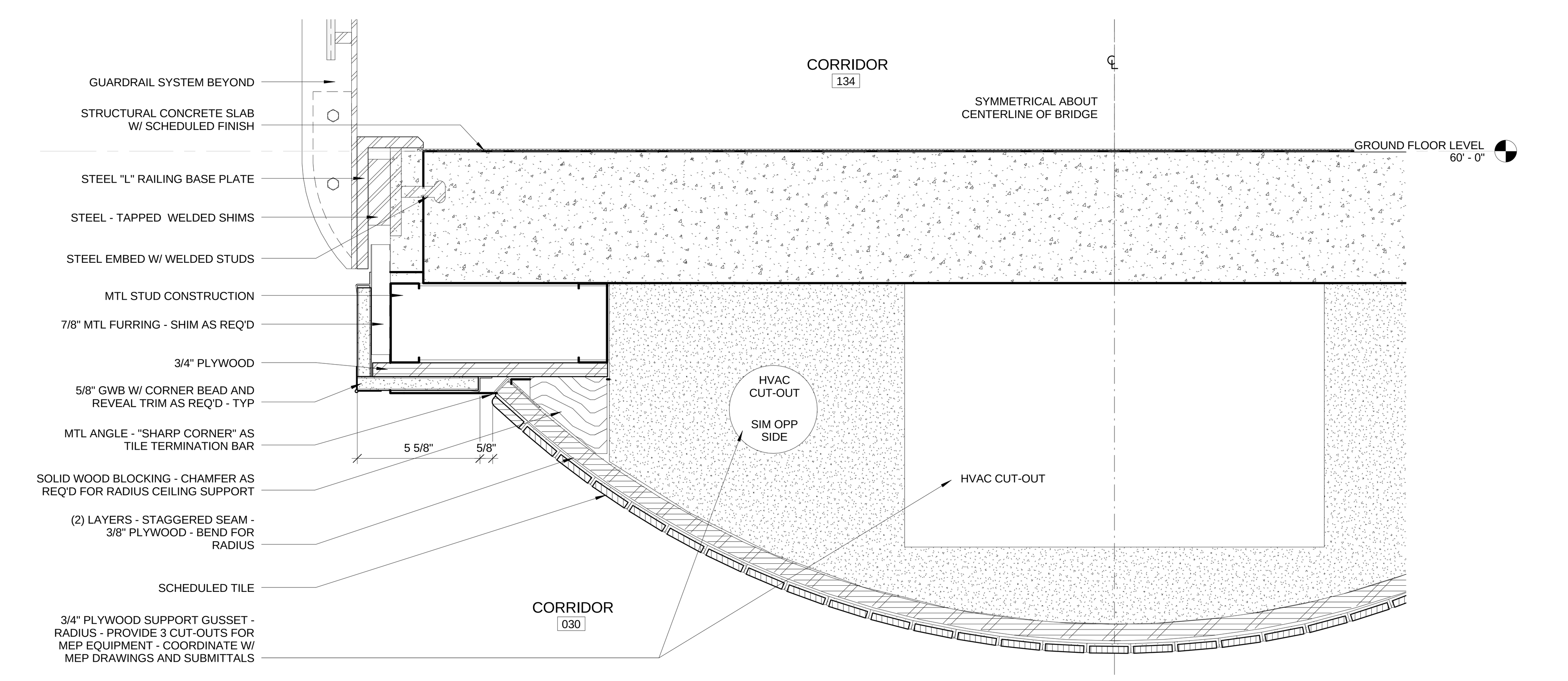
M1 SECTION DETAIL AT CORRIDOR 110 NORTH PARTITION
1 1/2" = 1'-0"



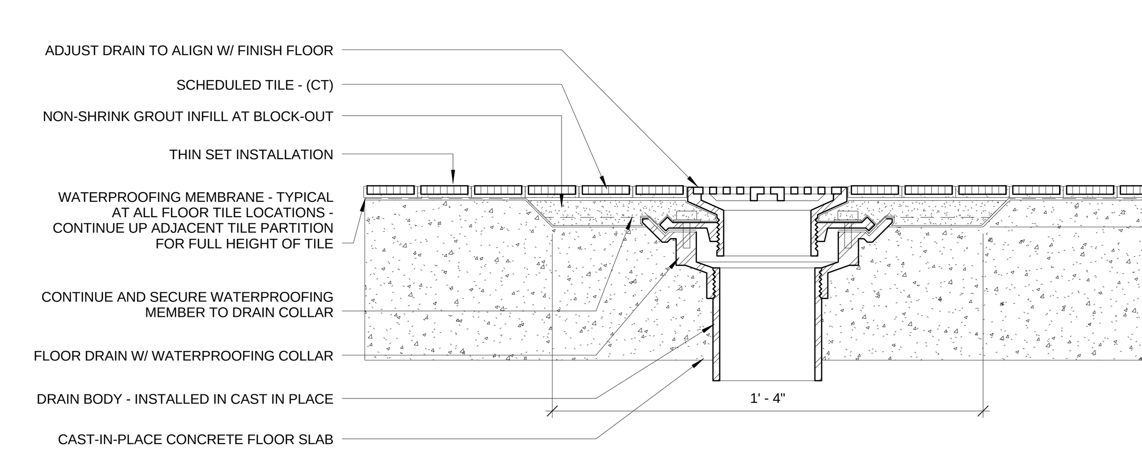
M4 SECTION DETAIL AT 319 CONF/DEMINAR ROOM
1 1/2" = 1'-0"



M7 SECTION DETAIL - GROUND FLOOR COLUMN G/12
1 1/2" = 1'-0"



K10 SECTION DETAIL - GLS - ATRIUM BRIDGE
3" = 1'-0"



M10 FLOOR DRAIN DETAIL - TYPICAL
3" = 1'-0"

drawing title: INTERIOR DETAILS

REVISIONS		
mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

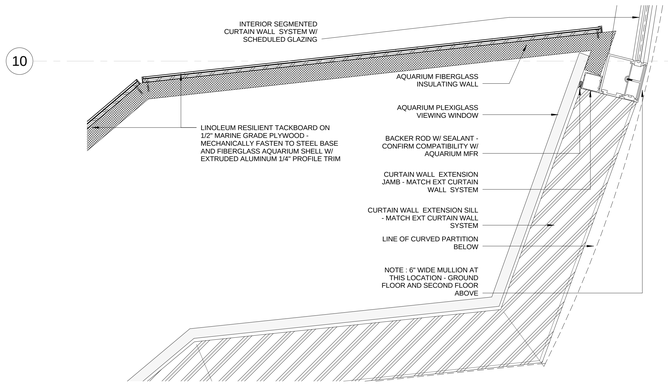
DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

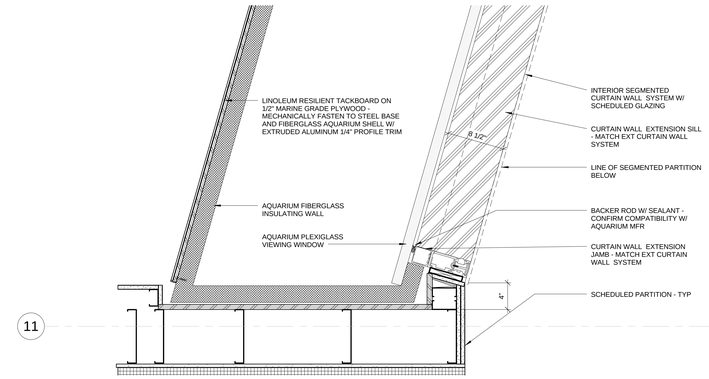
CAD no. 1393
project no. BI-RS-283

volume: 1 of 2
date: 11-21-2012
scale: As indicated
drawn by: BGA
approved by: RM/JBR
drawing no.: A922

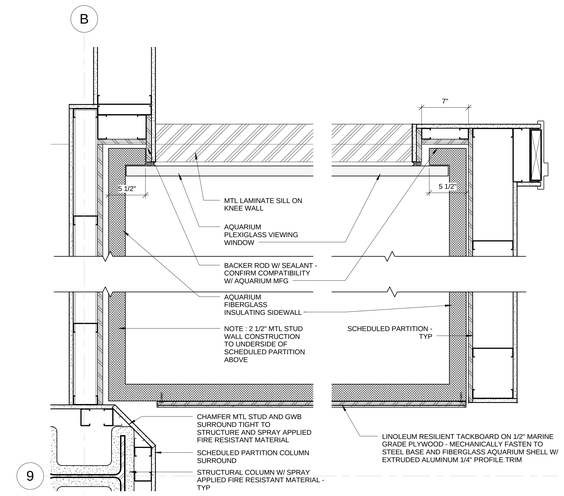
C:\Revit Local Files\1393 SCSU New Academic and Laboratory Building A12 Central_Graph.rvt 11/21/2012 12:44:53 PM



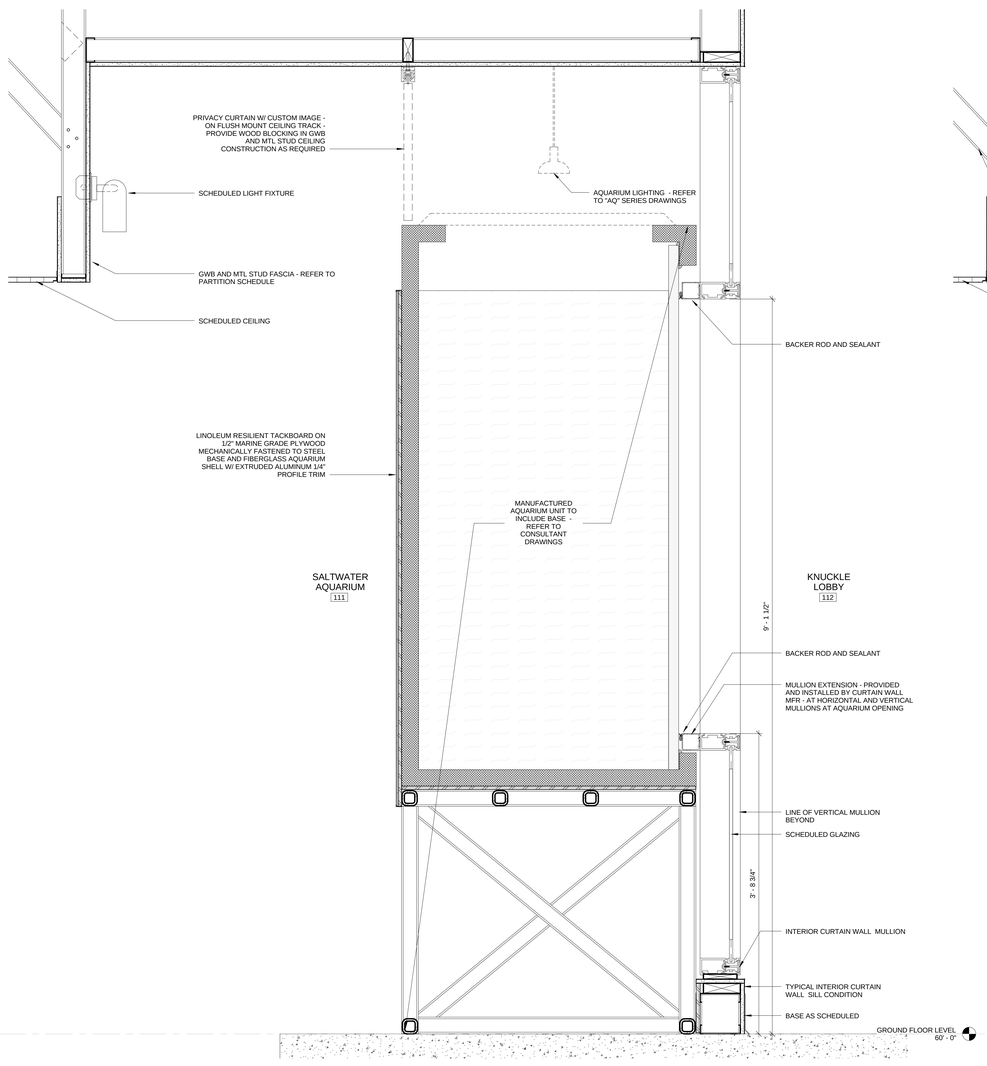
E1 PLAN DETAIL AT SEGMENTED AQUARIUM - EAST JAMB
1 1/2" = 1'-0"



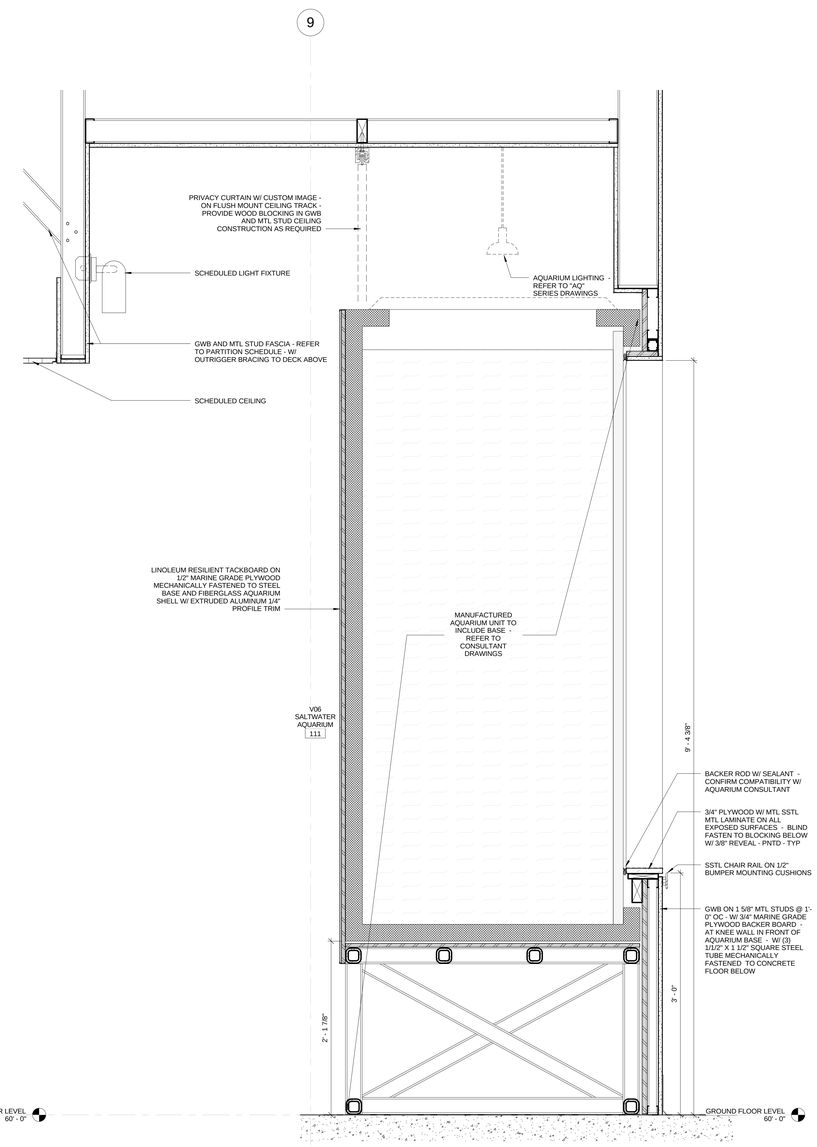
E6 PLAN DETAIL AT SEGMENTED AQUARIUM - WEST JAMB
1 1/2" = 1'-0"



E12 PLAN DETAIL AT RM 111 EAST AQUARIUM
1 1/2" = 1'-0"



M1 SECTION DETAIL AT 112 AQUARIUM
1 1/2" = 1'-0"



M9 SECTION DETAIL AT RM 111 EAST AQUARIUM
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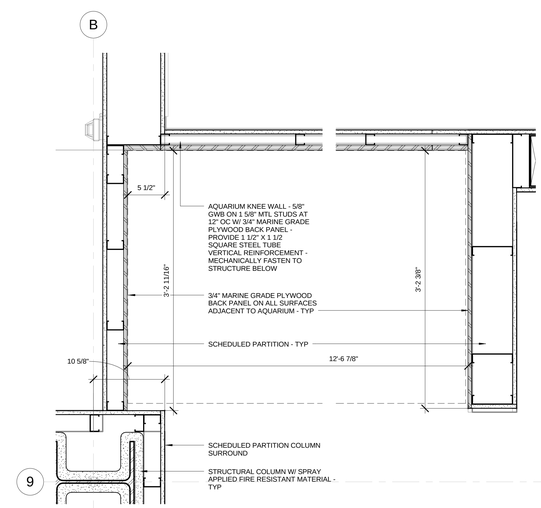


J12 LOW KNEE WALL PLAN DETAIL AT RM 111 EAST AQUARIUM
1 1/2" = 1'-0"

drawing title: INTERIOR DETAILS – AQUARIUM

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY:
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

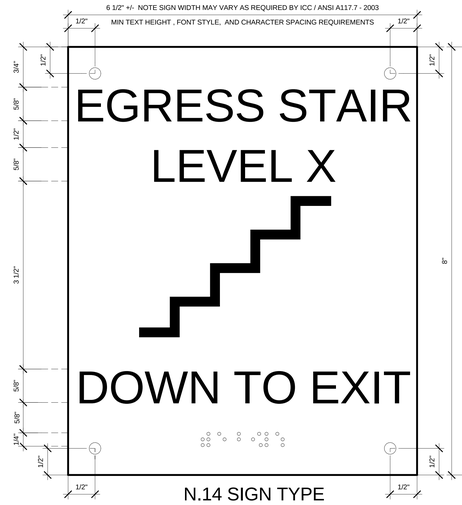
project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD file: 1393 project no. BI-RS-283

volume: 1 of 2
date: 11-21-2012
scale: 1 1/2" = 1'-0"
drawn by: BGA
reviewed by: RMUBR
number: A923

Clifford Lloyd Fleet PE/LSCSU New Academic and Laboratory Building 4-D Catalog Graphics 11/21/2012 12:05:08 PM

6 1/2" +/- NOTE SIGN WIDTH MAY VARY AS REQUIRED BY ICC / ANSI A117.7 - 2003
MIN TEXT HEIGHT , FONT STYLE, AND CHARACTER SPACING REQUIREMENTS



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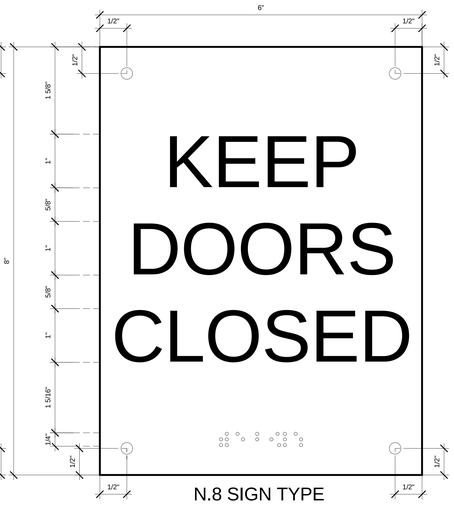

N.8 SIGN TYPE

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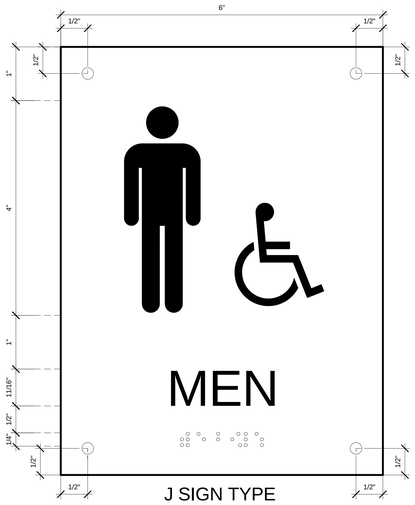

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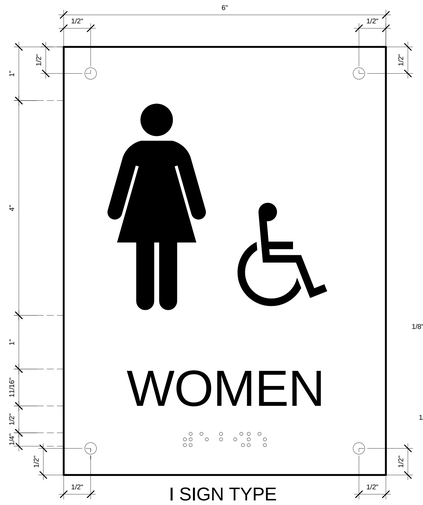

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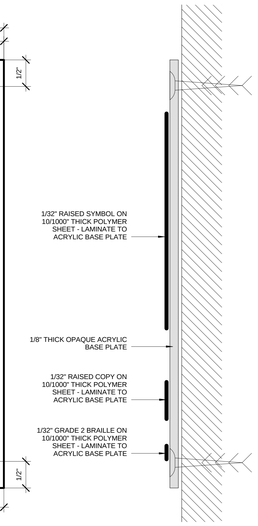

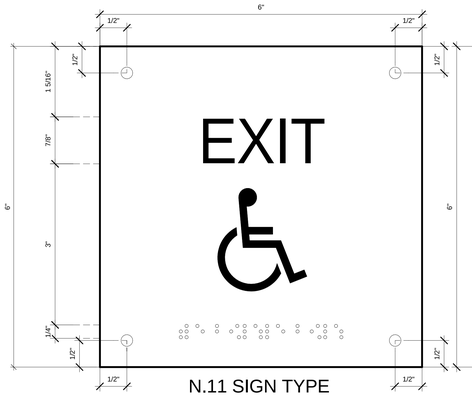

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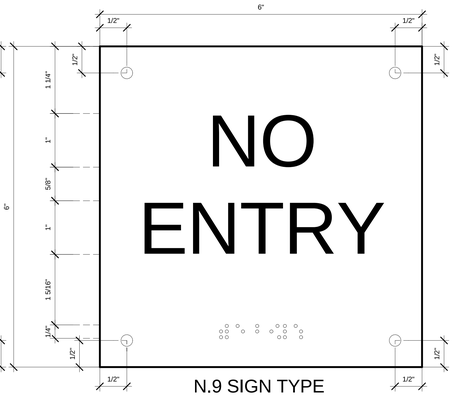

N.9 SIGN TYPE

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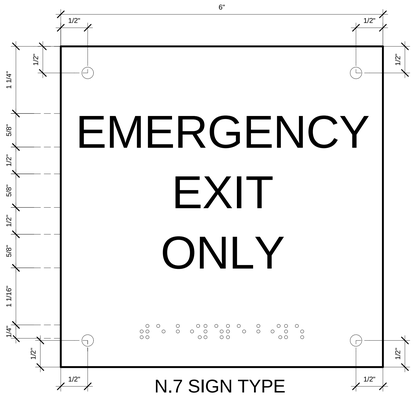

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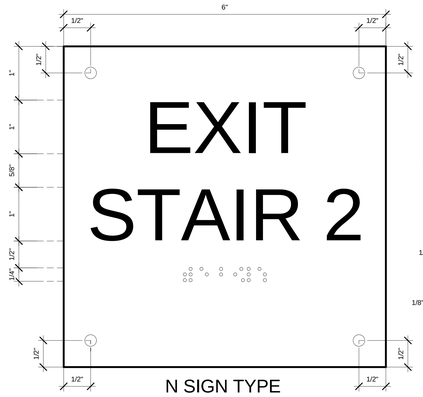

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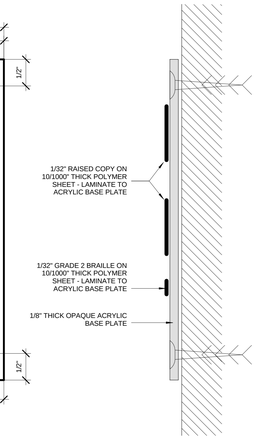
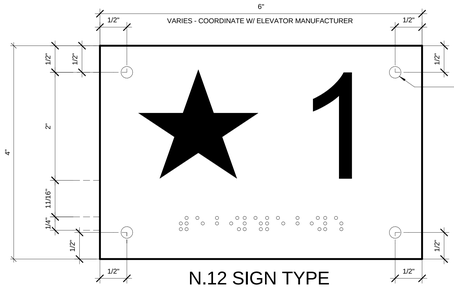


VARIES - COORDINATE W/ ELEVATOR MANUFACTURER



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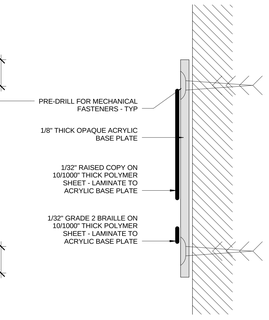

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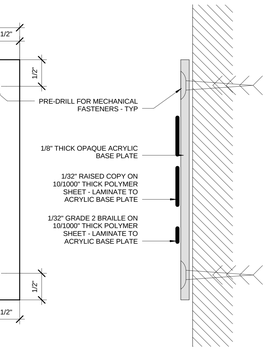

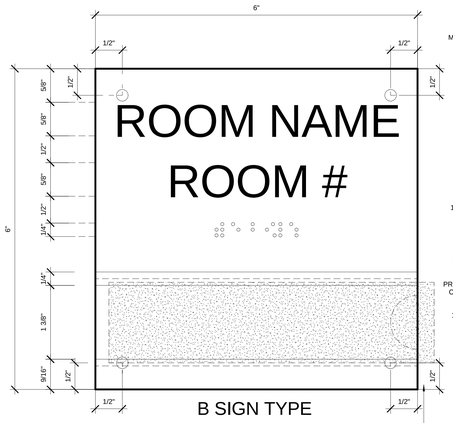

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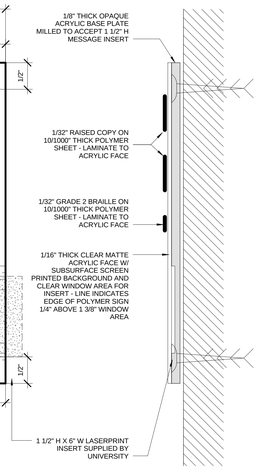
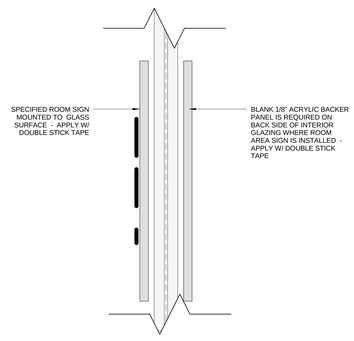
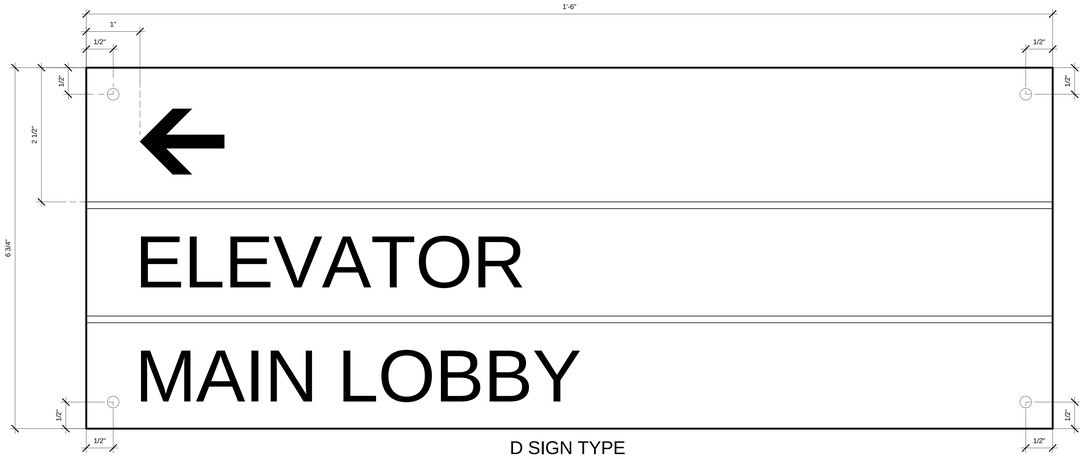


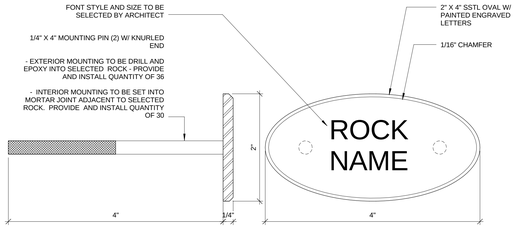


NOTE : SIGNAGE INSTALLATION ON GLASS SURFACE



D SIGN TYPE

M2 SIGNAGE BASE
12" = 1'-0"



M10 INTERIOR AND EXTERIOR ROCK DISPLAY SIGNAGE
12" = 1'-0"

SIGNAGE - GENERAL NOTES

1 - ALL SIGNAGE IS REQUIRED TO MEET ICC / ANSI A117.1 - 2003 - CHAPTER 703 - SIGNS - INCLUDING BUT NOT LIMITED TO TEXT CASE, STYLE, CHARACTER HEIGHT, CHARACTER WIDTH, STROKE WIDTH, CHARACTER SPACING, LINE SPACING, MOUNTING HEIGHT, FINISH AND CONTRAST, AND TACTILE DEPTH.

2 - ALL SIGNAGE IS REQUIRED TO MEET CAMPUS STANDARDS

3 - ALL SIGNAGE TEXT IS REQUIRED TO BE REVIEWED AND CONFIRMED WITH OWNER PRIOR TO FABRICATION

SIGNAGE - GENERAL NOTES
1/16" = 1'-0"

Drawing title: SIGNAGE	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		volume: 1 of 2
REVISIONS			date: 11-21-2012
mark / date / description: 11-21-2012 Bid Documents	DRAWING: Centerbrook Architects and Planners, LLP 67 Main Street Post Office Box 955 Centerbrook, Connecticut 06409-0955		scale: As indicated
	project name: SCSU NEW ACADEMIC LABORATORY BUILDING		drawn by: BGA
			approved by: RMJBR
	CAD file: 1393	project no.: BI-RS-283	drawing no.: A930

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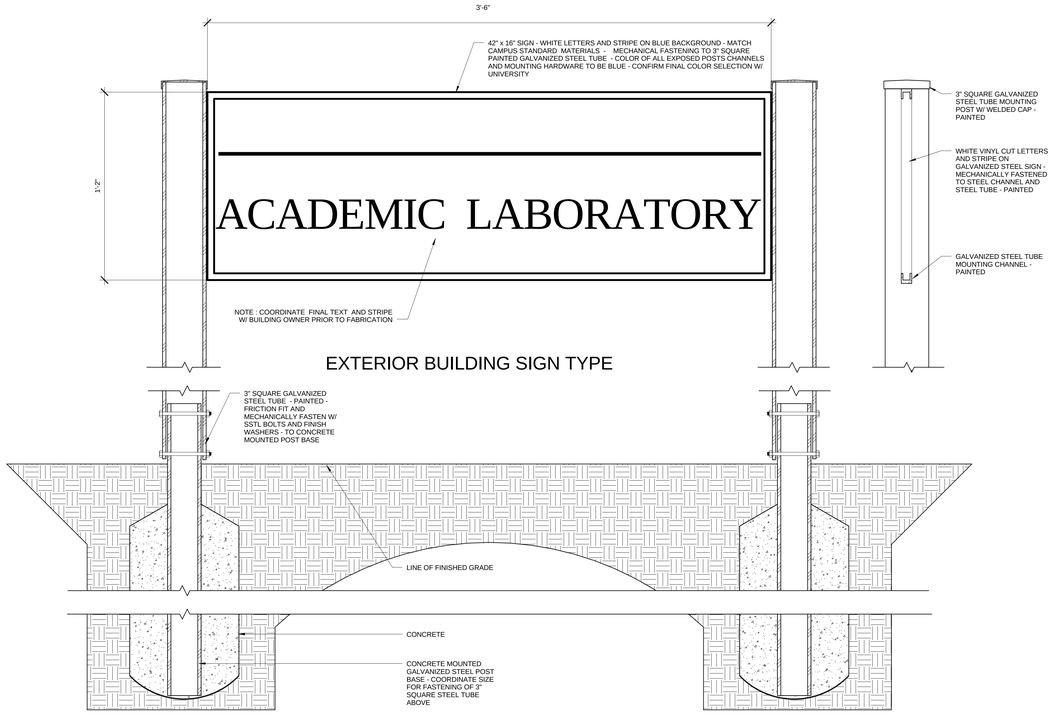
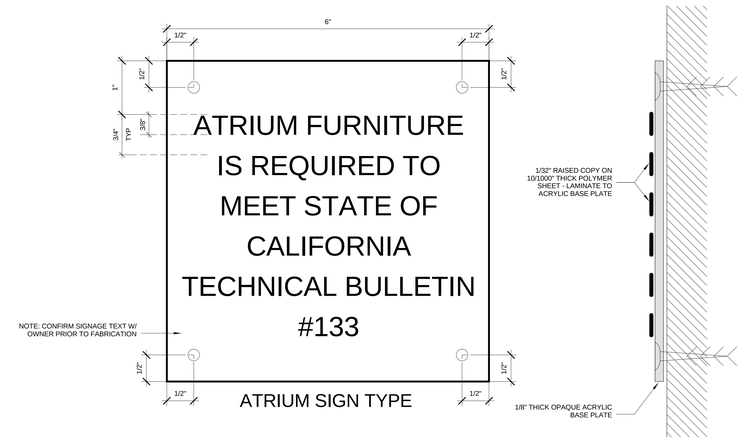
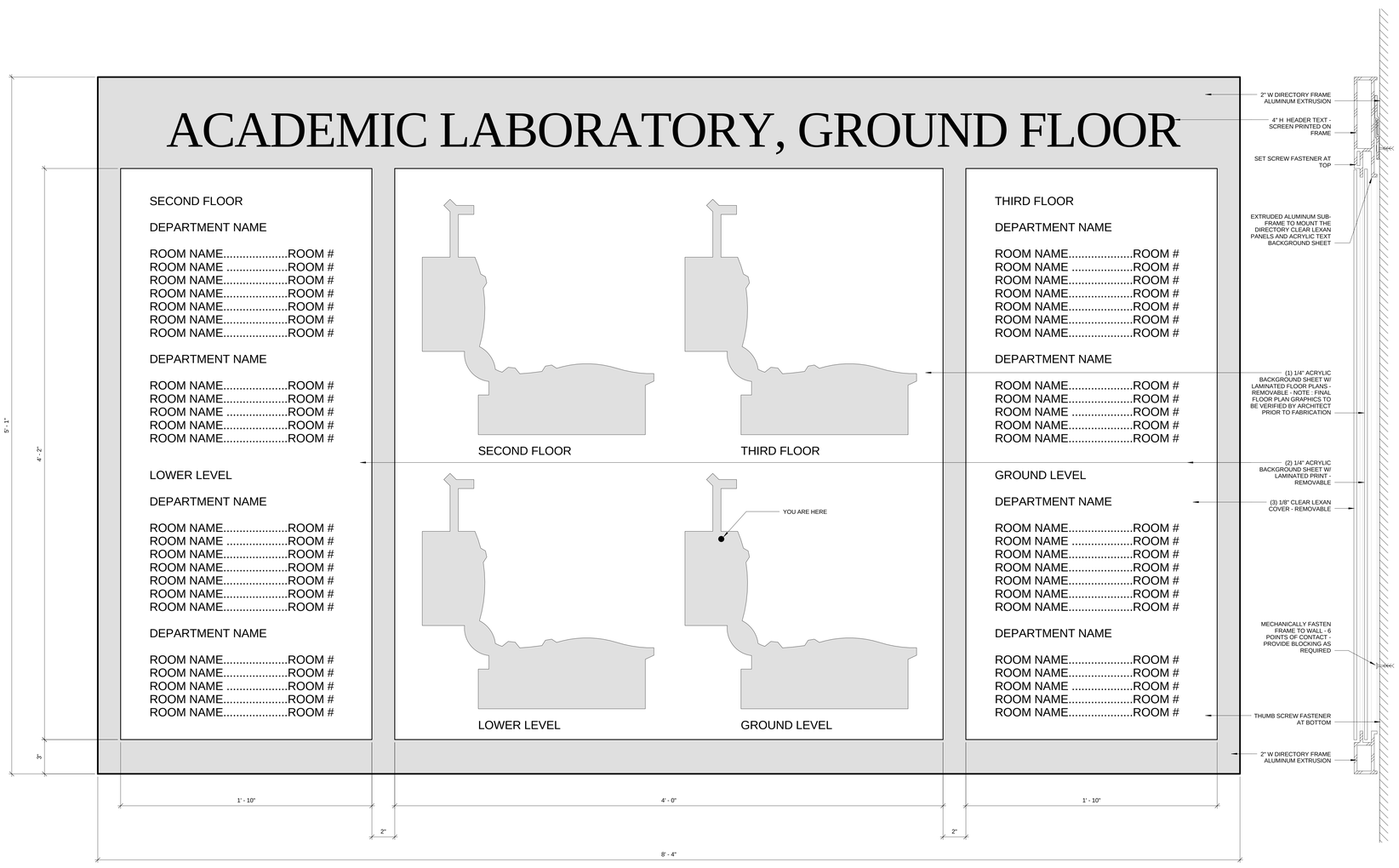


1 EXTERIOR BUILDING SIGNAGE
3" = 1'-0"



2 ATRIUM FURNITURE SIGNAGE
12" = 1'-0"



3 INTERIOR BUILDING DIRECTORY/MAP SIGNAGE
3" = 1'-0"

SIGNAGE - GENERAL NOTES

1 - ALL SIGNAGE IS REQUIRED TO MEET ICC / ANSI A117.1 - 2003 - CHAPTER 703 - SIGNS - INCLUDING BUT NOT LIMITED TO TEXT CASE, STYLE, CHARACTER HEIGHT, CHARACTER WIDTH, STROKE WIDTH, CHARACTER SPACING, LINE SPACING, MOUNTING HEIGHT, FINISH AND CONTRAST, AND TACTILE DEPTH.

2 - ALL SIGNAGE IS REQUIRED TO MEET CAMPUS STANDARDS

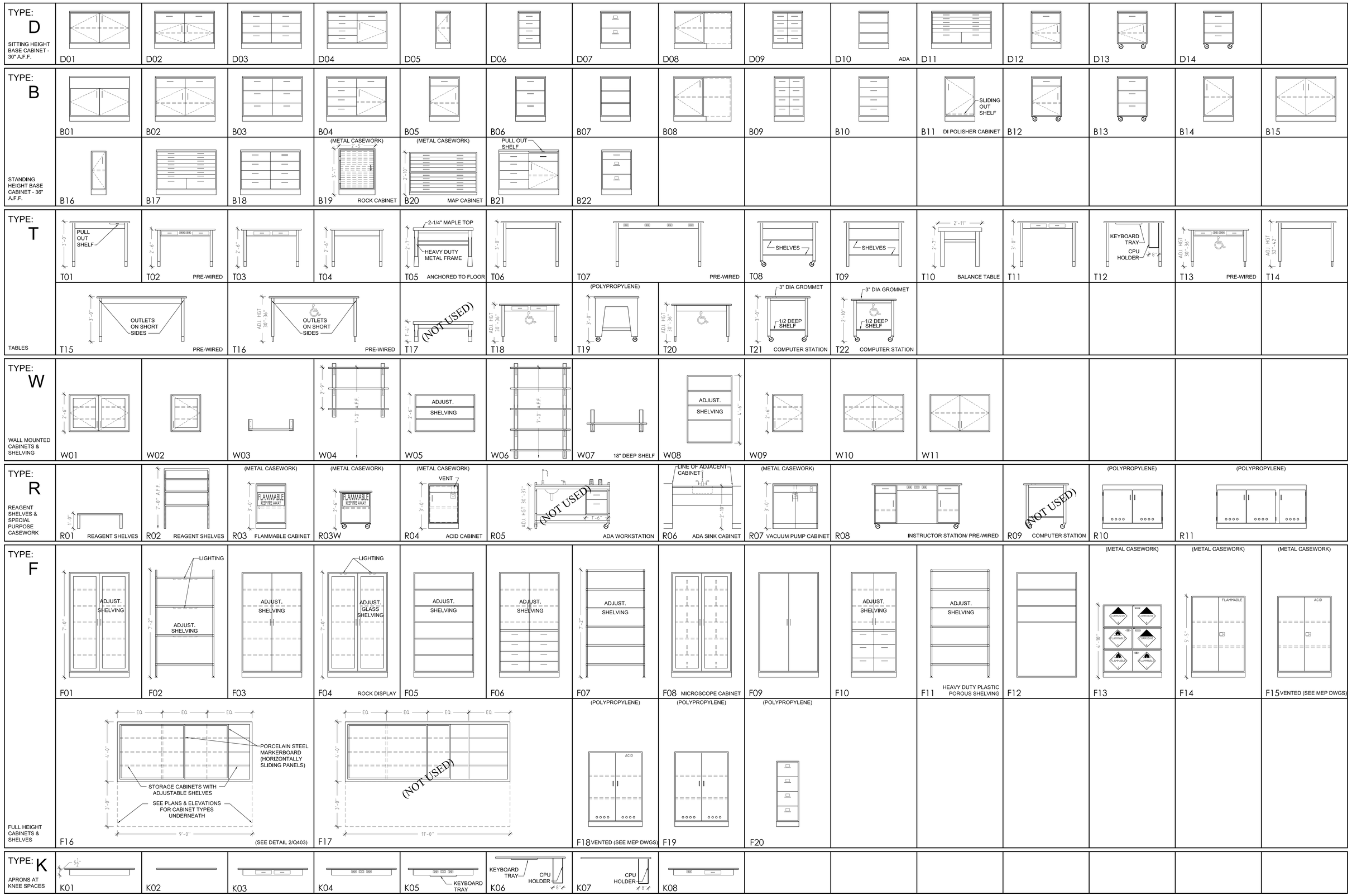
3 - ALL SIGNAGE TEXT IS REQUIRED TO BE REVIEWED AND CONFIRMED WITH OWNER PRIOR TO FABRICATION

SIGNAGE - GENERAL NOTES
1/16" = 1'-0"

drawing title: SIGNAGE	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		volume: 1 of 2
REVISIONS			
mark / date / description	DRAWING: Centerbrook Architects and Planners, LLP, 67 Main Street, Post Office Box 955, Centerbrook, Connecticut 06409-0955		date: 11-21-2012
11-21-2012 Bid Documents			scale: As indicated
	project: SCSU NEW ACADEMIC LABORATORY BUILDING		drawn by: BGA
			checked by: RMJBR
	CAD file: 1393	project no.: BI-RS-283	drawing no.: A931

Cityfiles/Local Files/ 393-SCSU New Academic and Laboratory Building AE2 Centerbrook.dwg
11/21/2012 1:45:12 PM

CASEWORK TYPES



1 CASEWORK TYPES
1/2" = 1'-0"

0 1 2 4

Drawing Info	CASEWORK TYPES
REVISIONS	
mark / date / description	11-21-2012 / Bid Documents
DRAWING PREPARED BY	SST Planners, Laboratory Planners; 1501 Wilson Blvd. Suite 507, Arlington, VA 22209, 703.875.8787
	SCSU NEW ACADEMIC LABORATORY BUILDING
A/E job no.	1393
project no.	BI-RS-283
STATE OF CONNECTICUT	DEPARTMENT OF CONSTRUCTION SERVICES
sheet	1 of 2
date	11-21-2012
scale	1/2" = 1'-0"
drawn by	SST
approved by	SST
drawing no.	Q001

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File Path

LEGEND - SERVICES / ABBREVIATIONS

ELECTRICAL OUTLETS - ABBREVIATIONS

E1	110V DUPLEX ELECTRICAL OUTLET
E2	CONTINUOUS ELECTRICAL RACEWAY (110V DUPLEX OUTLETS @ 2'-0" OC.)
E3	208V, 1 PHASE, ELECTRICAL OUTLET
E4	SINGLE FACED, SINGLE GANG PEDESTAL (ONE E1 TYPE)
E5	DOUBLE FACED, SINGLE GANG PEDESTAL (ONE E1 TYPE EACH SIDE)
E6	SINGLE FACED, DOUBLE GANG (QUAD) PEDESTAL (TWO E1 TYPES)
E7	DOUBLE FACED, DOUBLE GANG (QUAD) PEDESTAL (TWO E1 TYPES EACH SIDE)
E8	CEILING SUSPENDED REEL (ONE 110V DUPLEX ELECTRICAL OUTLET)
E9	FLOOR OUTLETS (FOUR E1 TYPES & FOUR D TYPES)
E10	208V, 3 PHASE, ELECTRICAL OUTLET
E11	208V, 50A, 3 PHASE OULET PEDESTAL FOR ARGON LASER
E12	230V, 1 PHASE, ELECTRICAL OUTLET
E13	230V, 3 PHASE, ELECTRICAL OUTLET
E14	SPECIAL TYPE ELECTRICAL OUTLET (SEE ELECTRICAL DWGs)
E15	SPECIAL TYPE ELECTRICAL OUTLET (SEE ELECTRICAL DWGs)
/EP	EMERGENCY POWER
TL	TASK LIGHTS @ UNDERSIDE OF WALL MOUNTED CABINETS
/W	WATERPROOF OUTLET

LABORATORY SERVICES

A	COMPRESSED AIR		
AC	ACETYLENE		
AFO	COMPRESSED AIR FLOOR OUTLET		
AR	ARGON		
C/HW	COLD & HOT WATER FAUCET		
CHWS	PROCESSED CHILLED WATER SUPPLY		
CHWR	PROCESSED CHILLED WATER RETURN		
CO	CARBON DIOXIDE		
CW	COLD WATER FAUCET		
D	SINGLE DATA OUTLET		
D2	DOUBLE DATA OUTLET (OR SINGLE DATA OUTLET ON EACH SIDE OF A PEDESTAL)		
D4	QUAD DATA OUTLET (OR DOUBLE DATA OUTLET ON EACH SIDE OF A PEDESTAL)		
DI	DIONIZED WATER		
ES/EW	EMERGENCY SHOWER / EMERGENCY EYE WASH		
EW	EMERGENCY EYE WASH		
FD	FLOOR DRAIN		
/ST	FLOOR DRAIN OR SINK WITH SEDIMENT TRAP		
FS	FLOOR SINK	GRT	GROMMET
G	GAS	N	NITROGEN
HB	HOSE BIB	H2/N	HYDROGEN BALANCED
HE	HELIUM		NITROGEN (SPECIAL) GAS
HW	HOT WATER FAUCET	OX	OXYGEN
LIQ. AR	LIQUID ARGON	N2O2	SPECIAL GAS
LIQ. HE	LIQUID HELIUM	P-10	SPECIAL GAS
LIQ. N	LIQUID NITROGEN	ETH	ETHYLENE (SPECIAL) GAS
OSC	OVERHEAD SERVICE CARRIER	T	TELEPHONE
USC	UNDER-TABLE SERVICE CARRIER	V	VACUUM
PW	PURE WATER FIXTURE (CENTRAL LOOP)	VL	VACUUM LINE

MISCELLANEOUS

ADA	AMERICAN WITH DISABILITIES ACT
ADAAG	ADA ACCESSIBILITY GUIDELINES
AFF	ABOVE FINISHED FLOOR
MTD	MOUNTED
NIC	NOT IN CONTRACT
OPP	OPPOSITE
R.T.	RESEARCH TRAINING
S	SINK
SIM	SIMILAR
SS	STAINLESS STEEL
U/C	UNDER COUNTER
VIF	VERIFY IN FIELD
W/	WITH
XXX-L	LOCKABLE CABINET
XXX-M	MOVEABLE CABINET (NOT ANCHORED TO FLOOR) WITH FINISHED TOP
XXX-W	MOVEABLE CABINET ON WHEELS WITH FINISHED TOP

GENERAL NOTES

1. ALL CASEWORK TO BE PLASTIC LAMINATE UNLESS NOTED OTHERWISE.
2. ALL COUNTERTOPS TO BE BLACK MODIFIED EPOXY RESIN, UNLESS NOTED OTHERWISE.
3. ALL SINKS TO BE MODIFIED EPOXY RESIN, UNLESS NOTED OTHERWISE. COLOR TO MATCH ADJACENT COUNTER TOP. SEE SINK SCHEDULE FOR SINK TYPES.
4. ALL SINKS SHALL BE CENTERED IN THEIR CABINETS, UNLESS OTHERWISE SHOWN ON DRAWINGS.
5. SERVICES SHOWN ON PLANS ARE FOR INFORMATION ONLY. REFER TO MECHANICAL, ELECTRICAL, TELECOM & PLUMBING DRAWINGS FOR EXACT QUANTITY & LOCATION OF SERVICE FIXTURES.
6. ALL SERVICES REQUIRED BY EQUIPMENT ARE NOT NECESSARILY INDICATED ON LAB PLANS. REFER TO MEP DRAWINGS & SPECIFICATIONS.
7. SERVICES ARE NOT INDICATED ON ELEVATIONS.
8. PROVIDE LOCKS AT ALL CABINETS INDICATED WITH AN "L" AND AT ALL ACID & FLAMMABLE STORAGE CABINETS. SEE SPECIFICATION SECTION 123553 FOR KEYING REQUIREMENTS.
9. PROVIDE END PANELS AND FILLERS AS REQUIRED.
10. ALL REAGENT SHELVES AND WALL MOUNTED SHELVES TO BE PLASTIC LAMINATE, UNLESS NOTED OTHERWISE.
11. DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO ESTABLISH BASIC DIMENSION OF UNITS, SIGHT LINES, AND UNIT PROFILES.
12. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF CASEWORK. NOTIFY ARCHITECT OF ANY DISCREPANCY.
13. COORDINATE CASEWORK AND EQUIPMENT WITH WORK OF OTHER TRADES.
14. SEE SPEC SECTION 115300 FOR EQUIPMENT SCHEDULE, SCOPE OF WORK, N.I.C., AND OWNER / CONTRACTOR FURNISHED / INSTALLED EQUIPMENT INFORMATION.
15. PROVIDE CUT-OUTS FOR ELECTRICAL OUTLETS AT ALL KNEE SPACES AND UNDER COUNTER EQUIPMENT SPACE, UNLESS NOTED OTHERWISE. ELECTRICAL OUTLETS AT THESE LOCATIONS ARE NOT SHOWN ON ELEVATIONS.
16. CONTINUOUS WIREMOLD ARE SHOWN ON ELEVATIONS FOR INFORMATION ONLY. SEE ELECTRICAL DRAWINGS.
17. ALL TABLES TO BE MOVEABLE (NOT FIXED TO THE FLOOR), UNLESS NOTED OTHERWISE.
18. FUME HOODS ARE TO BE PRE-PIPED AND PRE-WIRED FOR NOTED SERVICES. WHEN NO SERVICES ARE INDICATED, PRE-PIPE AND PRE-WIRE HOODS FOR AIR, GAS, VACUUM & CAP SERVICES FOR FUTURE CONNECTION TO BUILDING SERVICES.
19. SOME OF THE CASEWORK TYPES INDICATED ON CASEWORK TYPES DRAWING SHEET ARE NOT USED. SEE PLANS AND ELEVATIONS FOR SIZE, LOCATION, AND QUANTITY OF CASEWORK TYPES USED.
20. FINISHED FLOORING SHALL BE INSTALLED UNDER ALL CABINETS. FINISHED FLOORING INSTALLATION SHALL BE COMPLETED PRIOR TO CABINET INSTALLATION. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR BASE TO BE PROVIDED AT TOE SPACE OF ALL CASEWORK AND AT KNEE SPACES.
21. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR CEILING MOUNTED PROJECTORS, PROJECTION SCREENS, AND WALL MOUNTED MARKER BOARDS.
22. PROVIDE REMOVEABLE BACK ACCESS PANELS AT ALL CABINETS AND KNEE SPACES FOR ACCESS TO UTILITY CHASES BEHIND CABINETS.
23. PROVIDE FULL BACK AT BASE CABINETS WITH DRAWERS TO PREVENT OBJECTS FROM FALLING INTO PIPE CHASE BEHIND CABINETS.
24. PROVIDE FINISHED BACK AND SIDES ON MOVABLE CABINETS.

LAB SERVICE SYMBOLS

◄	TELEPHONE OR DATA OUTLET MOUNTED ON WALL (OR MOUNTED ON VERTICAL UPRIGHT)
▭	BENCH MOUNTED SINGLE OR DOUBLE FACED PEDESTAL
⊣ X	WALL OR PANEL MOUNTED SERVICE OUTLETS
○- X	BENCH MOUNTED SERVICE OUTLET W/ 1 SERRATED END
-○- X	BENCH MOUNTED SERVICE OUTLET W/ 2 SERRATED ENDS (90)
⌘ X	BENCH MOUNTED SERVICE OUTLET W/ 4 SERRATED ENDS
⬭	CUP SINK
○VL	EXPOSED VACUUM LINE PIPING

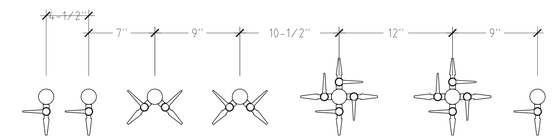
EQUIPMENT

BSC	BIOSAFETY CABINET
EQ	EQUIPMENT
FH	FUME HOOD
LFH	LAMINAR FLOW HOOD
VAR	VARIAC (RHEOSTAT)

SINK SCHEDULE

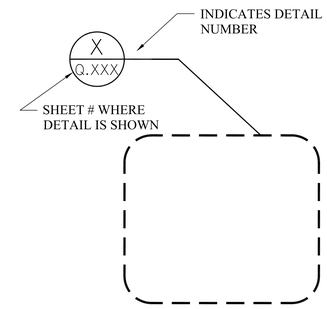
TYPE	SIZE: (L x W x D)		REMARKS
S01	24" L x 16" W x 8" D	NOT USED	
S02	28" L x 15" W x 12" D		
S03	25" L x 15" W x 10" D		
S04	30" L x 18" W x 18" D	NOT USED	
S05	18" L x 15" W x 5/11" D		TIERED ADA SINK
S06	18" L x 15" W x 5" D	NOT USED	ADA SINK
S07	18" L x 15" W x 8" D	NOT USED	
S08	14" L x 5" W x 5" D		CUPSINK - RECTANGLE
S09	18" L x 15" W x 11" D	NOT USED	
S10	24" L x 18" W x 11" D		
S11	24" L x 24" W x 12" D		S.S. UTILITY SINK. SEE MEP DWGS & SPECS
S12	22" L x 16" W x 12" D		S.S. SINK
S13	22" L x 16" W x 12" D (EACH BOWL)		S.S. DOUBLE BOWL SINK
S14	24" L x 24" W x 6" D		FLOOR SINK. SEE MEP DWGS & SPECS
S15		NOT USED	
S16		NOT USED	
S17		NOT USED	
S18		NOT USED	
S19		NOT USED	
S20		NOT USED	

MINIMUM SPACING BETWEEN FITTINGS

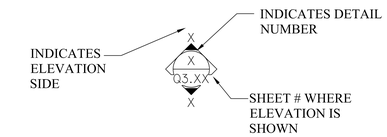


COORDINATE EXACT SPACING REQUIRED WITH FIXTURE SUPPLIER

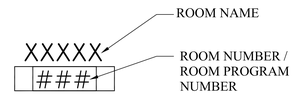
SYMBOL LEGEND: (PLAN / ELEVATION / DETAIL DRAWINGS)



ENLARGED PLAN REFERENCE SYMBOL



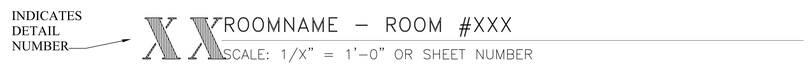
ELEVATION TAG SYMBOL



ROOM TITLE SYMBOL

DETAIL TITLE SYMBOL

SECTION SYMBOL



PLAN & ELEVATION TITLE SYMBOL

Drawing title: LEGEND–SERVICES/ ABBREVIATIONS–NOTES	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		sheet 1 of 2
REVISIONS: mark / date / description			date 11-21-2012
11-21-2012 Bid Documents	DESIGNED PREPARED BY: SST Planners Laboratory Planners, 1501 Wilson Blvd. Suite 507 Arlington, VA 22209 703.875.8787		scale NTS
	PROJECT TITLE: SCSU NEW ACADEMIC LABORATORY BUILDING		drawn by SST
			reviewed by SST
	CAD file: 1393	project no. BI-RS-283	drawing no. Q002

01/06/2021 3:00:27 PM

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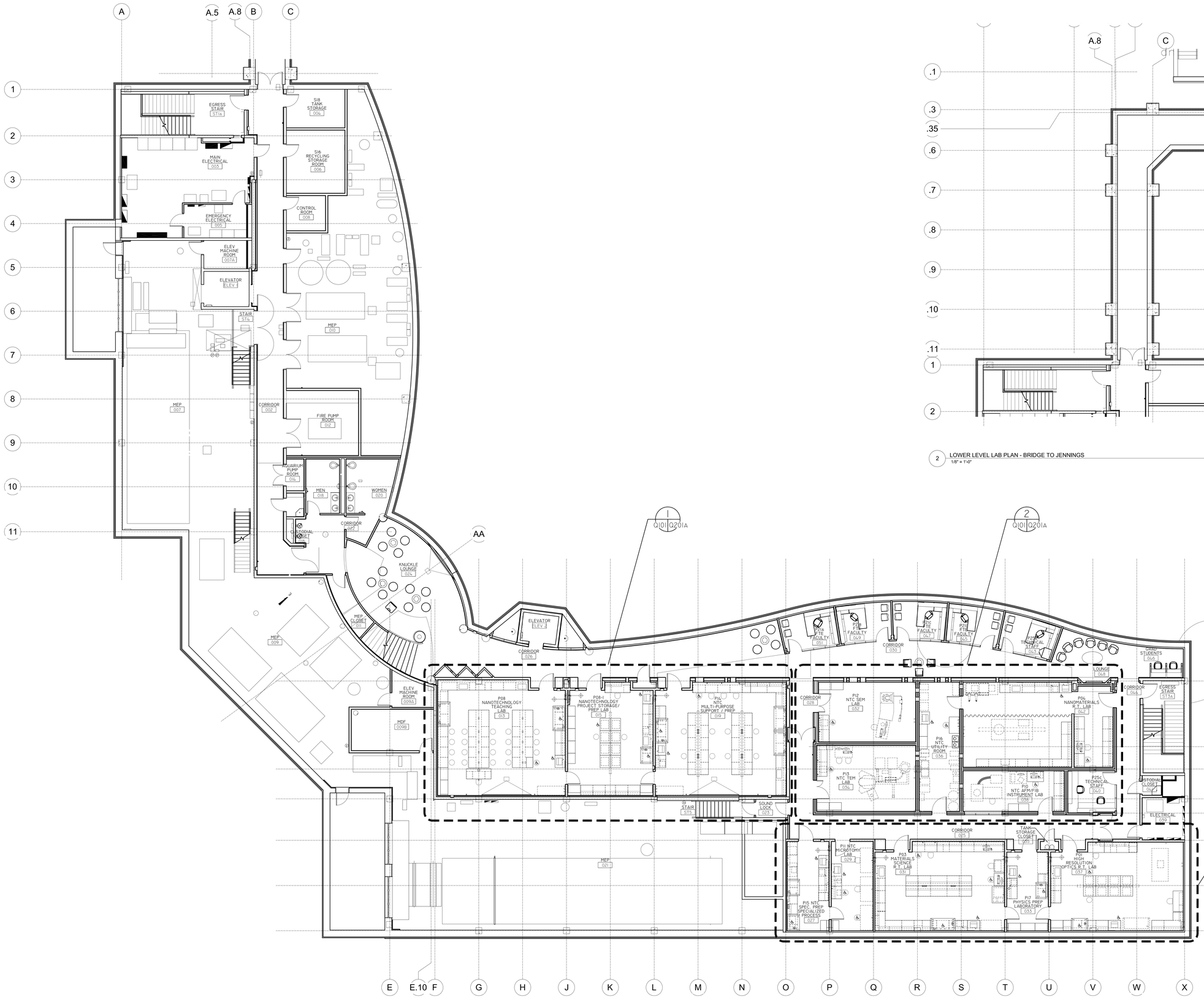
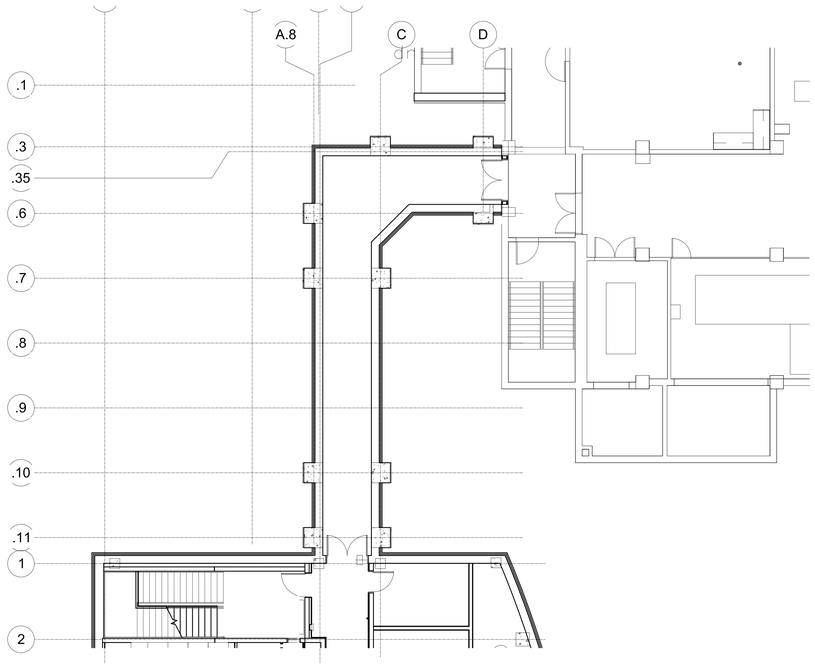
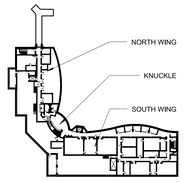


1 LOWER LEVEL LAB PLAN
1/8" = 1'-0"



2 LOWER LEVEL LAB PLAN - BRIDGE TO JENNINGS
1/8" = 1'-0"



Drawing title: LOWER LEVEL LAB PLAN

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
SST Planners
Laboratory Planners
1501 Wilson Blvd.
Suite 507
Arlington, VA 22209
703.875.8787

SCSU NEW ACADEMIC LABORATORY BUILDING

RD no.: 1393
project no.: BI-RS-283

sheet of: 1 of 2
date: 11-21-2012
scale: 1/8" = 1'-0"
drawn by: SST
reviewed by: SST
drawing no.: Q101

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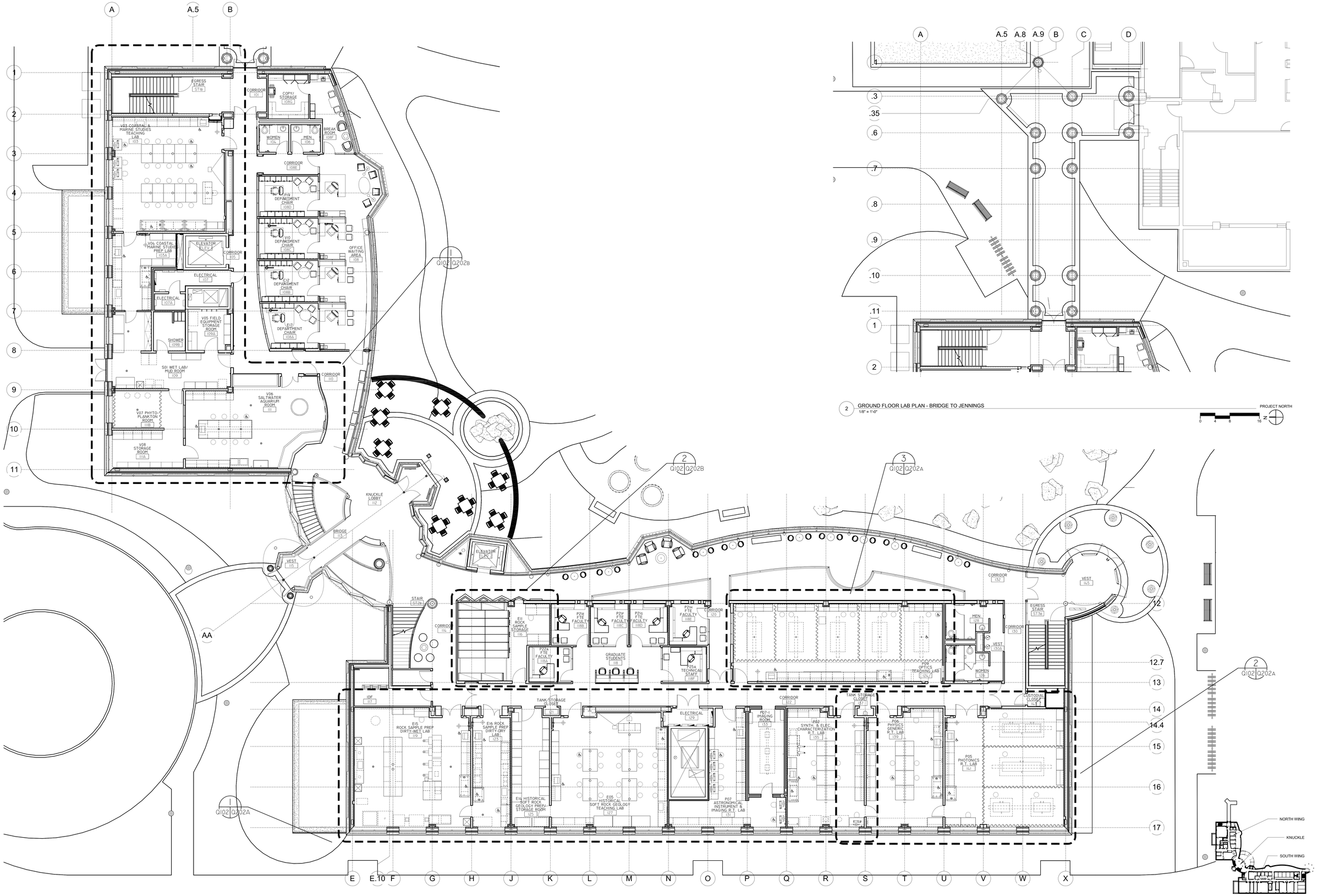
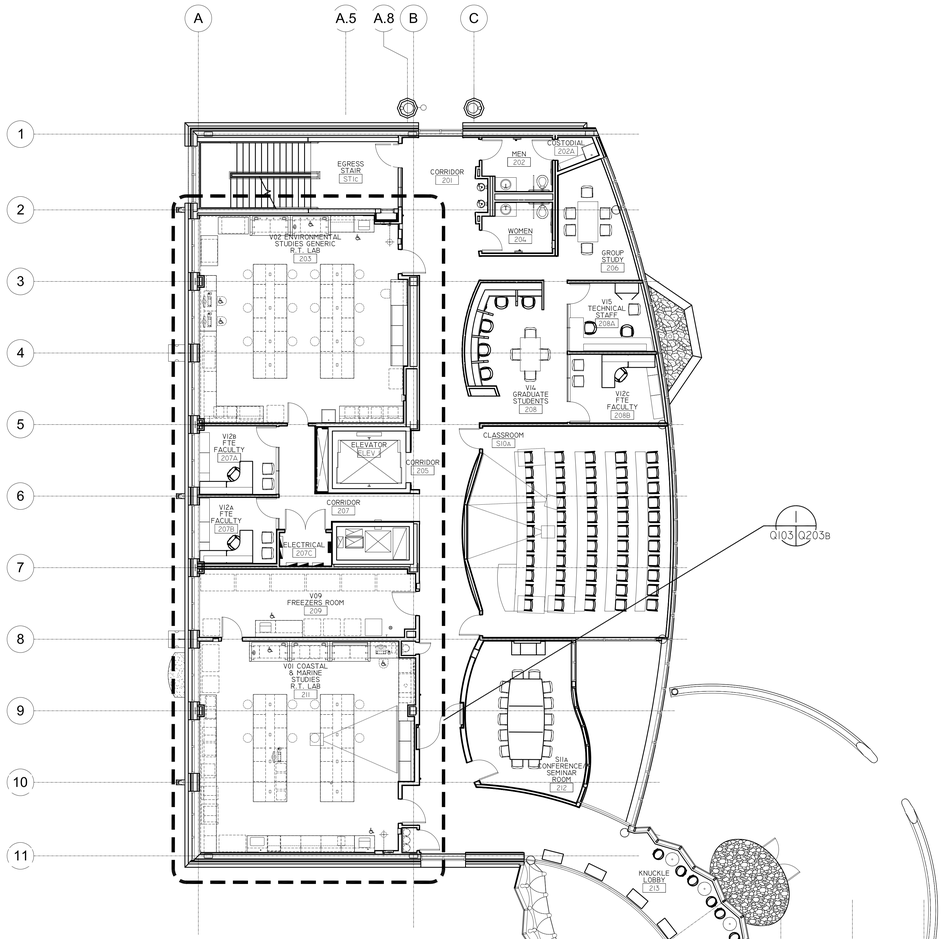


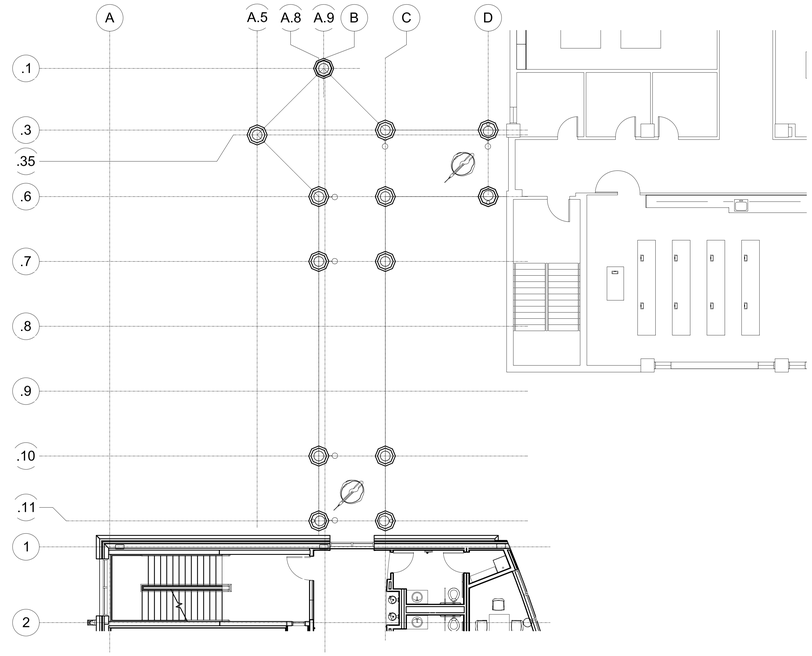
1 GROUND FLOOR LAB PLAN
1/8" = 1'-0"

2 GROUND FLOOR LAB PLAN - BRIDGE TO JENNINGS
1/8" = 1'-0"

PROJECT NORTH

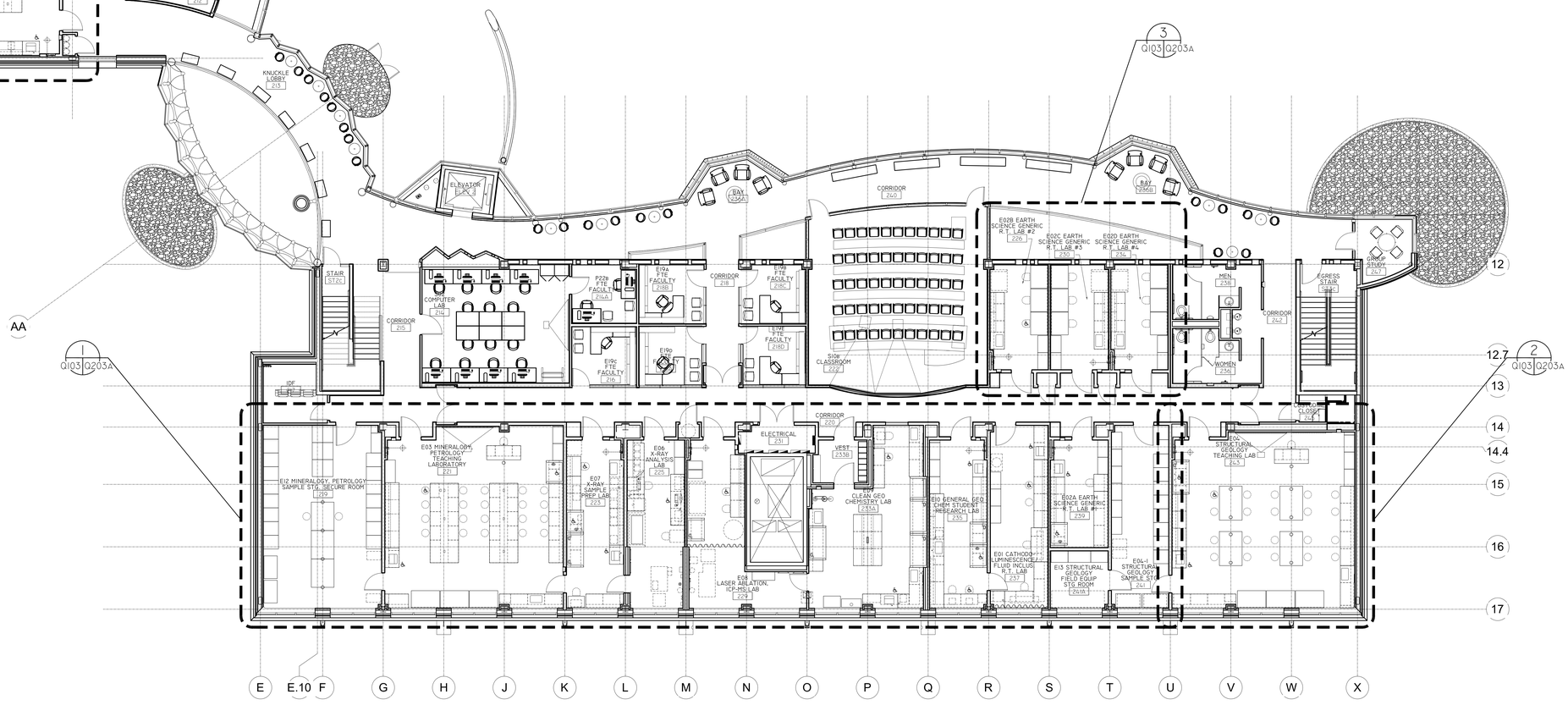
Drawing title: GROUND FLOOR LAB PLAN	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		sheet name: 1 of 2
REVISIONS			date: 11-21-2012
mark / date / description	DRAWING PREPARED BY: SST Planners Laboratory Planners, 1501 Wilson Blvd. Suite 507 Arlington, VA 22209 703.875.8787		scale: 1/8" = 1'-0"
11-21-2012 Bid Documents	SCSU NEW ACADEMIC LABORATORY BUILDING		drawn by: SST
			reviewed by: SST
	CAD file: 1393	project no.: BI-RS-283	drawing no.: Q102

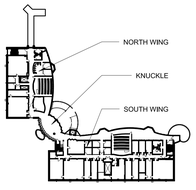




2 SECOND FLOOR LAB PLAN - BRIDGE TO JENNINGS
1/8" = 1'-0"

PROJECT NORTH





1 SECOND FLOOR LAB PLAN
1/8" = 1'-0"

PROJECT NORTH

drawing title: SECOND FLOOR LAB PLAN	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		volume 1 of 2
REVISIONS			date 11-21-2012
mark / date / description: 11-21-2012 Bid Documents	DRAWING PREPARED BY: SST Planners Laboratory Planners, 1501 Willson Blvd. Suite 507 Arlington, VA 22209 703.875.8787		scale 1/8" = 1'-0"
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			reviewed by SST
	CAD file 1393	project no. BI-RS-283	drawing no. Q103

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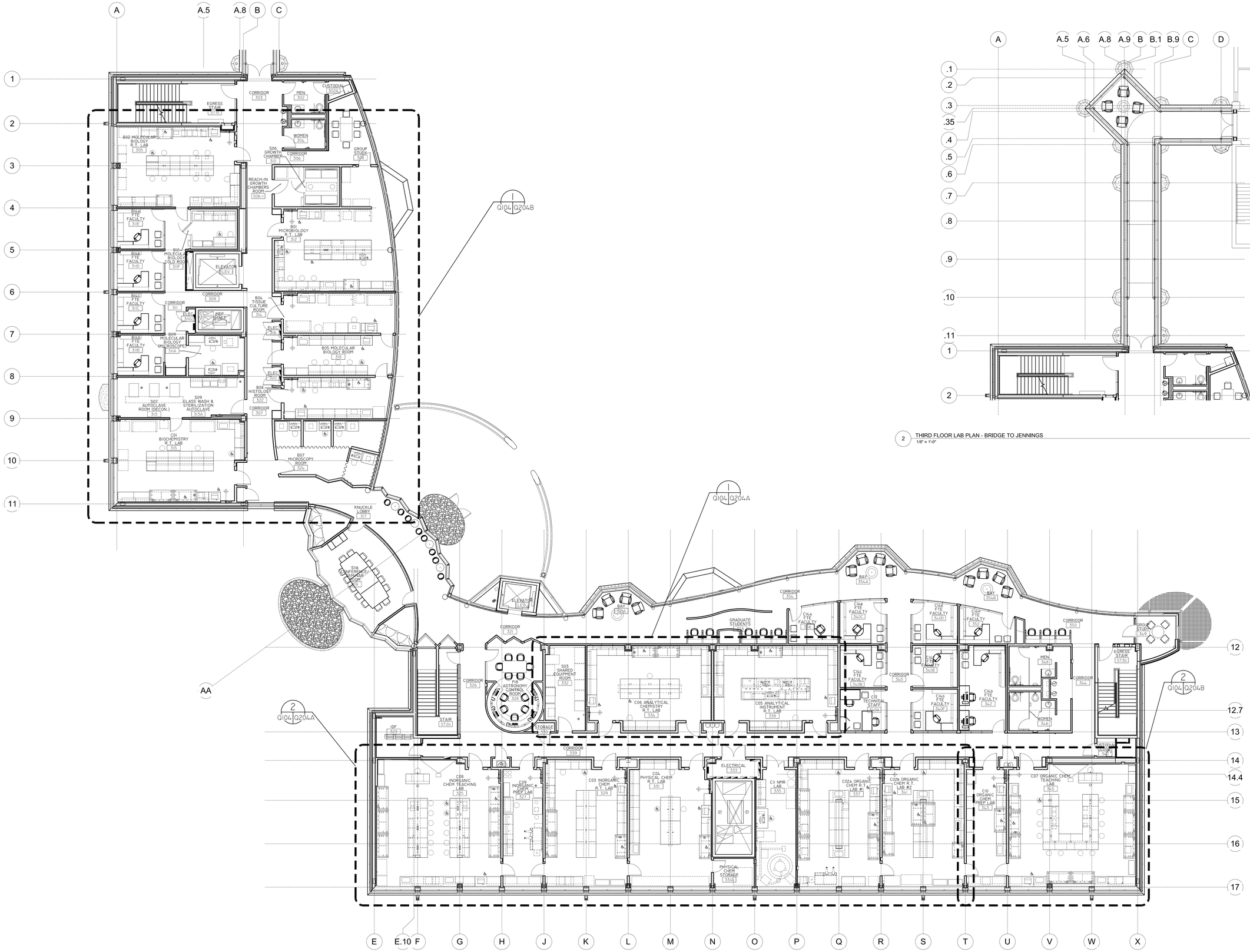
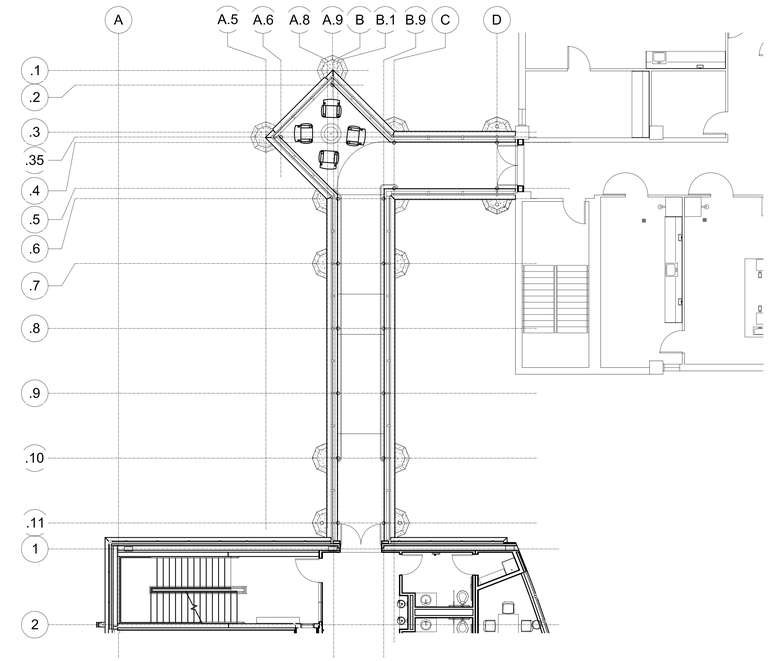
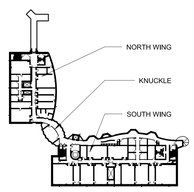


1 THIRD FLOOR LAB PLAN
1/8" = 1'-0"



2 THIRD FLOOR LAB PLAN - BRIDGE TO JENNINGS
1/8" = 1'-0"



drawing title: THIRD FLOOR LAB PLAN	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		sheet name: 1 of 2
REVISIONS			date: 11-21-2012
mark / date / description: 11-21-2012 Bid Documents	DRAWING PREPARED BY: SST Planners Laboratory Planners, 1501 Wilson Blvd. Suite 507 Arlington, VA 22209 703.875.8787		scale: 1/8" = 1'-0"
	project: SCSU NEW ACADEMIC LABORATORY BUILDING		drawn by: SST
			checked by: SST
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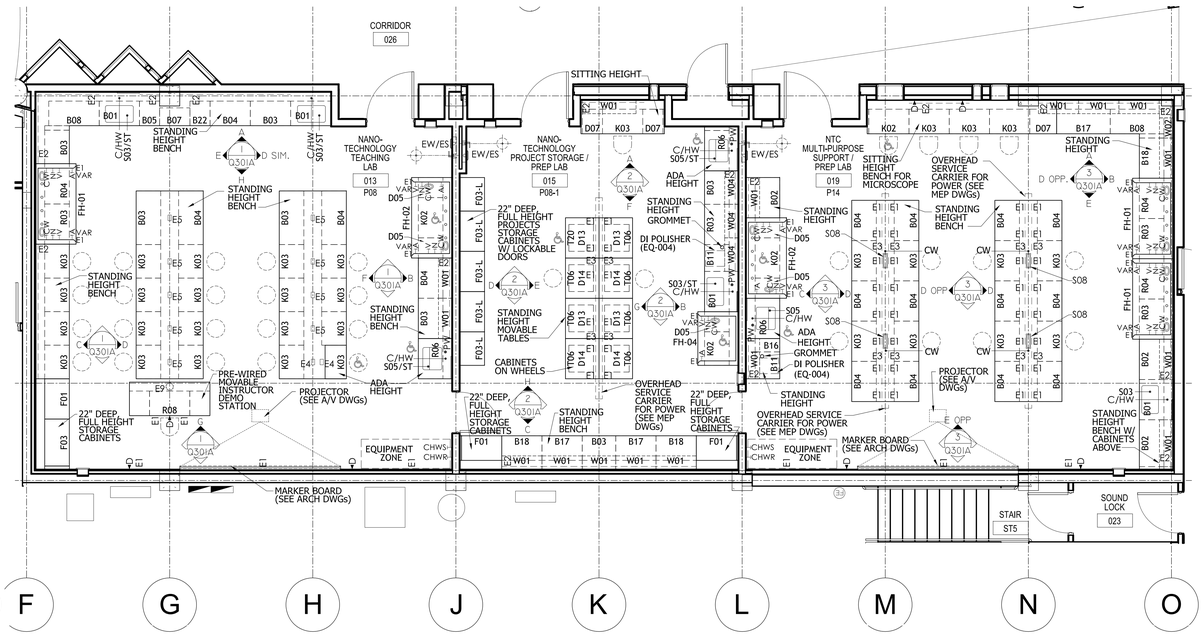
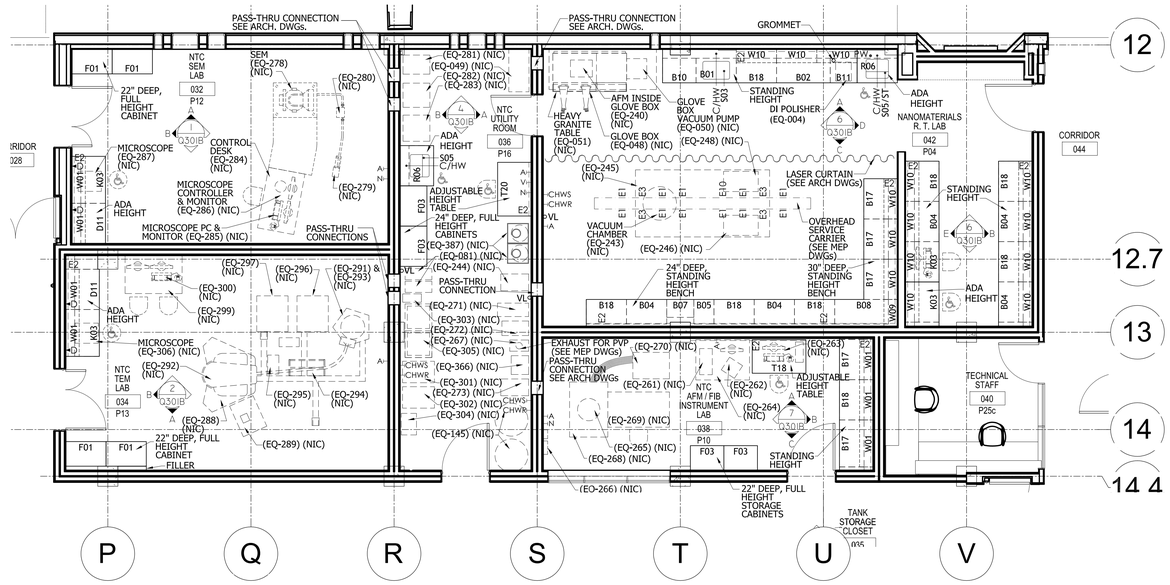
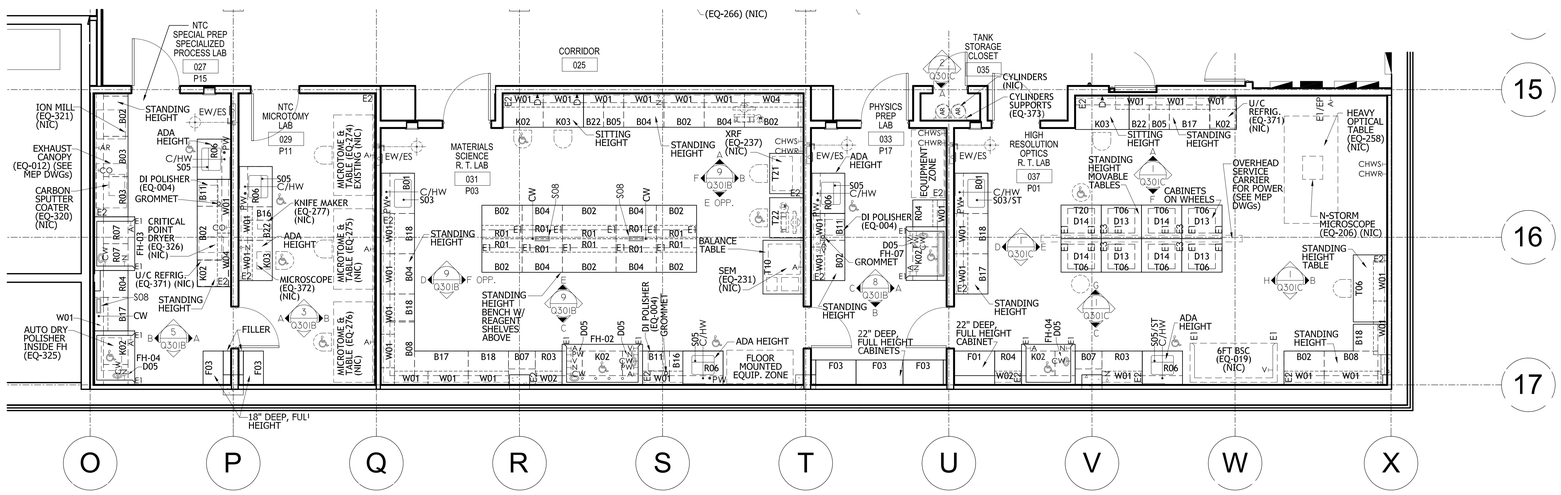


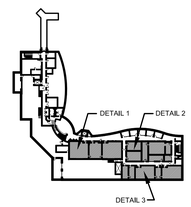
1 LOWER LEVEL ENLARGED LAB PLAN
1/4" = 1'-0"



2 LOWER LEVEL ENLARGED LAB PLAN
1/4" = 1'-0"



3 LOWER LEVEL ENLARGED LAB PLAN
1/4" = 1'-0"



drawing title: LOWER LEVEL ENLARGED LAB PLANS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES	sheet name: 1 of 2
REVISIONS: mark / date / description: 8-21-2012 Bid Documents	DRAWING PREPARED BY: SST Planners Laboratory Planners, 1501 Wilson Blvd. Suite 507 Arlington, VA 22209 703.875.8787	date: 11-21-2012; scale: 1/4" = 1'-0"; drawn by: SST; reviewed by: SST
	project: SCSU NEW ACADEMIC LABORATORY BUILDING	drawing no.: Q201A
	CAD file: 1393; project no.: BI-RS-283	

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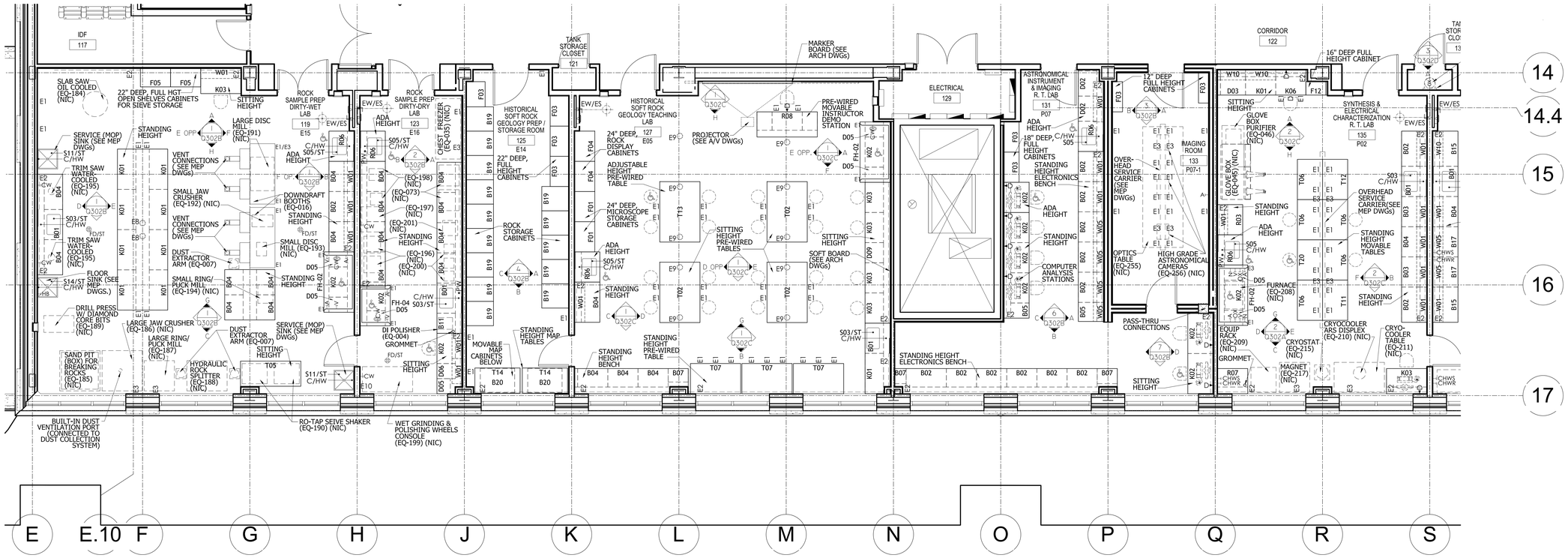
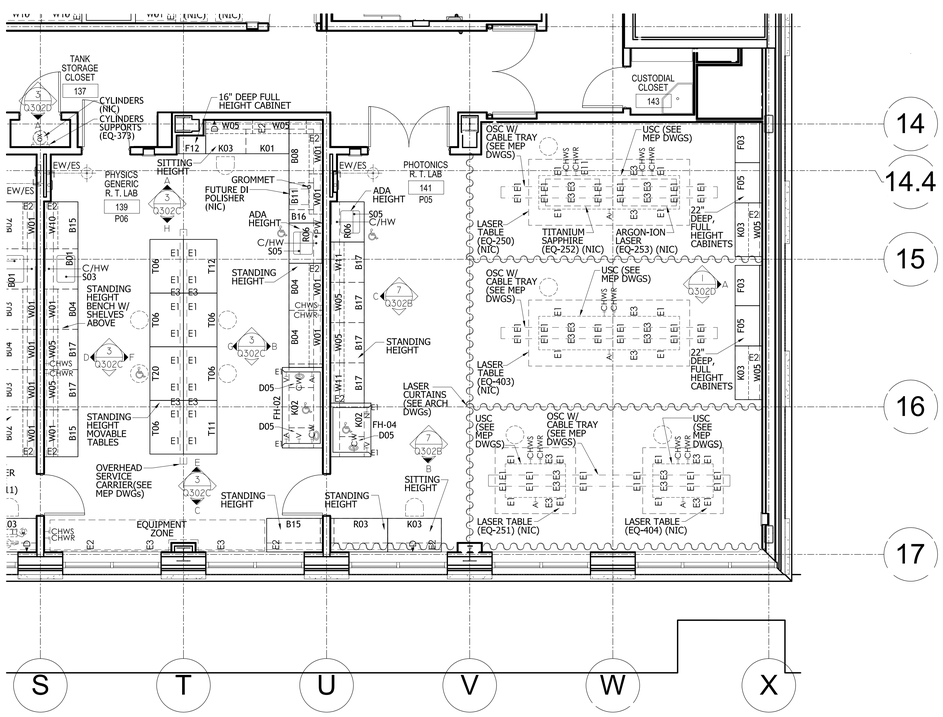


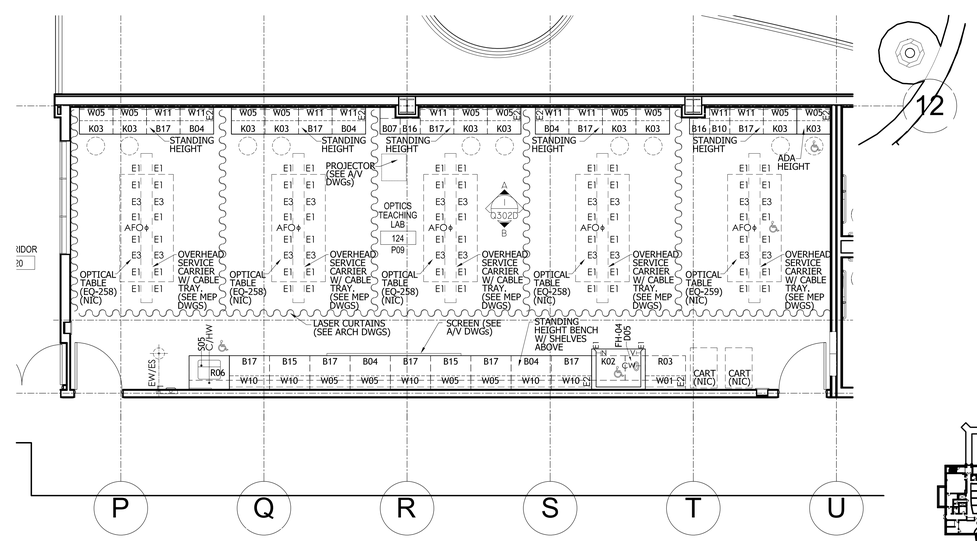
1 GROUND FLOOR ENLARGED LAB PLAN
1/4" = 1'-0"

PROJECT NORTH



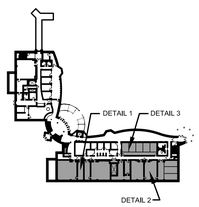
2 GROUND FLOOR ENLARGED LAB PLAN
1/4" = 1'-0"

PROJECT NORTH

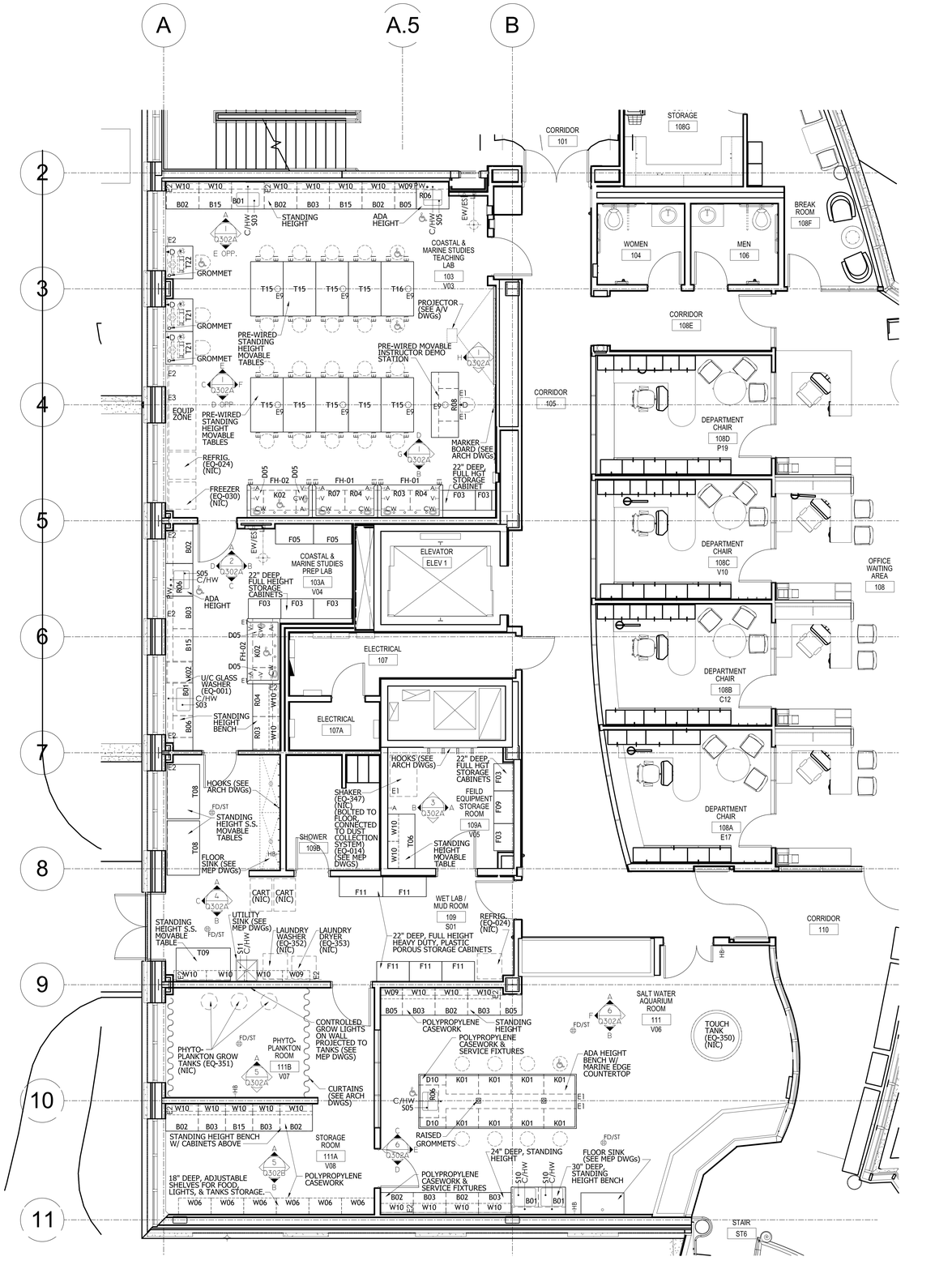


3 GROUND FLOOR ENLARGED LAB PLAN
1/4" = 1'-0"

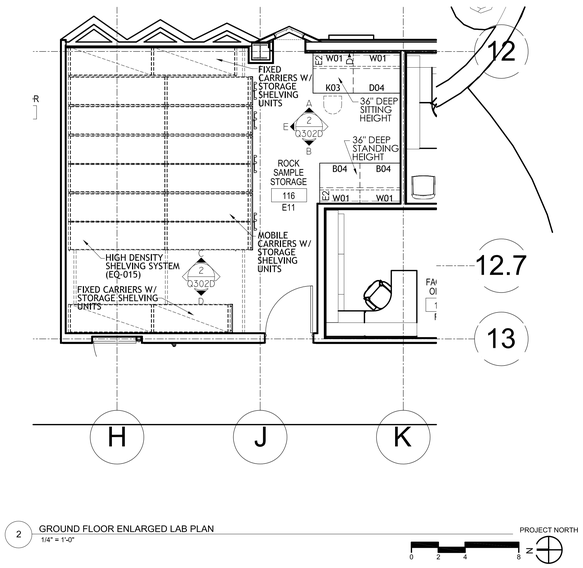
PROJECT NORTH



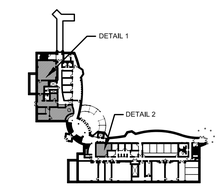
drawing title: GROUND FLOOR ENLARGED LAB PLANS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES	sheet no. 1 of 2
mark / date / description: 11-21-2012 Bid Documents	DRAWING PREPARED BY: SST Planners Laboratory Planners, 1501 Wilson Blvd. Suite 507 Arlington, VA 22209 703.875.8787	date: 11-21-2012
	SCSU NEW ACADEMIC LABORATORY BUILDING	scale: 1/4" = 1'-0"
		drawn by: SST
		checked by: SST
	job no. 1393 / project no. BI-RS-283	drawing no. Q202A



1 GROUND FLOOR ENLARGED LAB PLAN
1/4" = 1'-0"



2 GROUND FLOOR ENLARGED LAB PLAN
1/4" = 1'-0"



Drawing title: GROUND FLOOR ENLARGED LAB PLANS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		sheet 1 of 2
mark / date / description: 11-21-2012 Bid Documents	DRAWING PREPARED BY: SST Planners Laboratory Planners, 1501 Wilson Blvd. Suite 507 Arlington, VA 22209 703.875.8787		date: 11-21-2012
	SCSU NEW ACADEMIC LABORATORY BUILDING		scale: 1/4" = 1'-0"
			drawn by: SST
			approved by: SST
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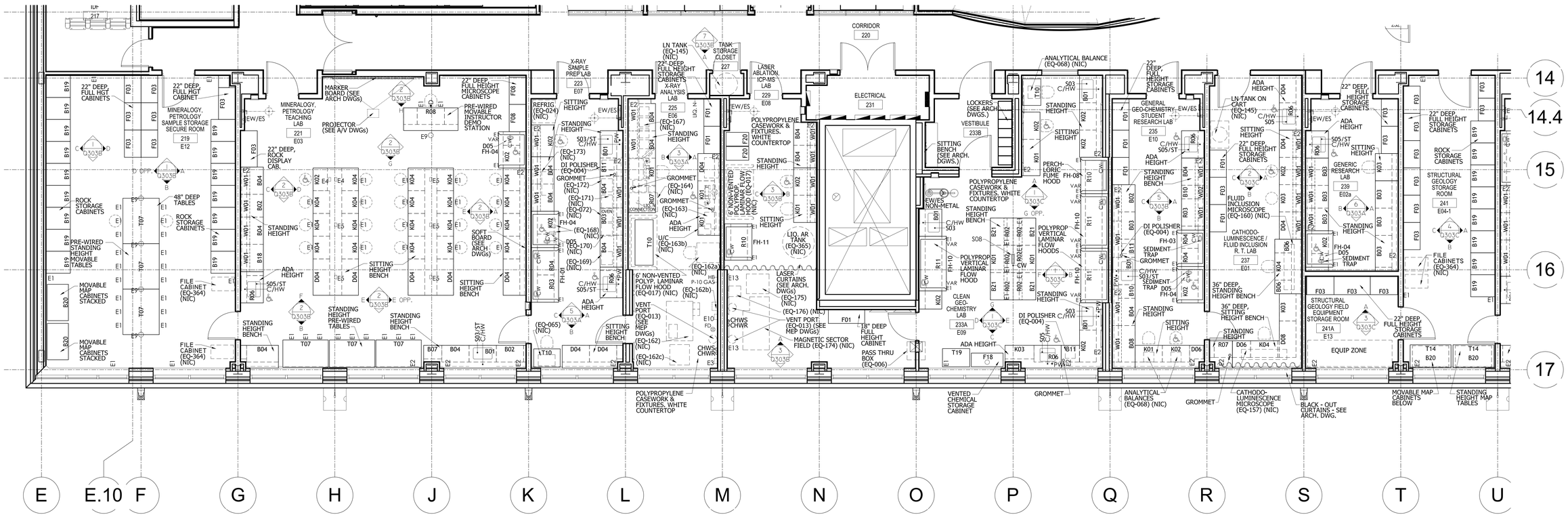
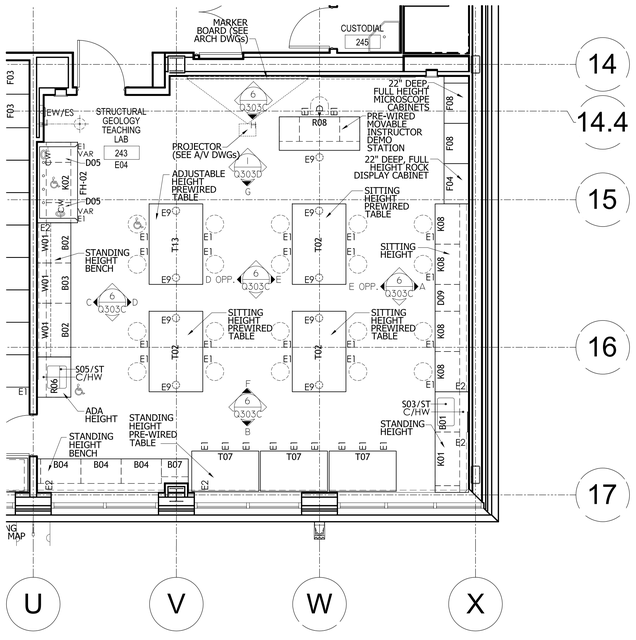


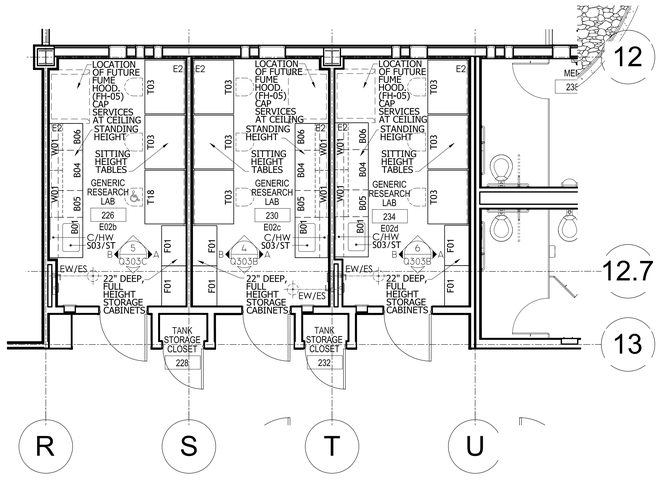
1 SECOND FLOOR ENLARGED LAB PLAN
1/4" = 1'-0"

PROJECT NORTH



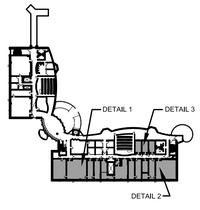
2 SECOND FLOOR ENLARGED LAB PLAN
1/4" = 1'-0"

PROJECT NORTH



3 SECOND FLOOR ENLARGED LAB PLAN
1/4" = 1'-0"

PROJECT NORTH



drawing title: SECOND FLOOR ENLARGED LAB PLANS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		sheet name: 1 of 2
REVISIONS			date: 11-21-2012
mark / date / description: 11-21-2012 Bid Documents	DRAWING PREPARED BY: SST Planners Laboratory Planners, 1501 Wilson Blvd. Suite 507 Arlington, VA 22209 703.875.8787		scale: 1/4" = 1'-0"
	project: SCSU NEW ACADEMIC LABORATORY BUILDING		drawn by: SST
			reviewed by: SST
	CAD file: 1393	project no.: BI-RS-283	drawing no.: Q203A

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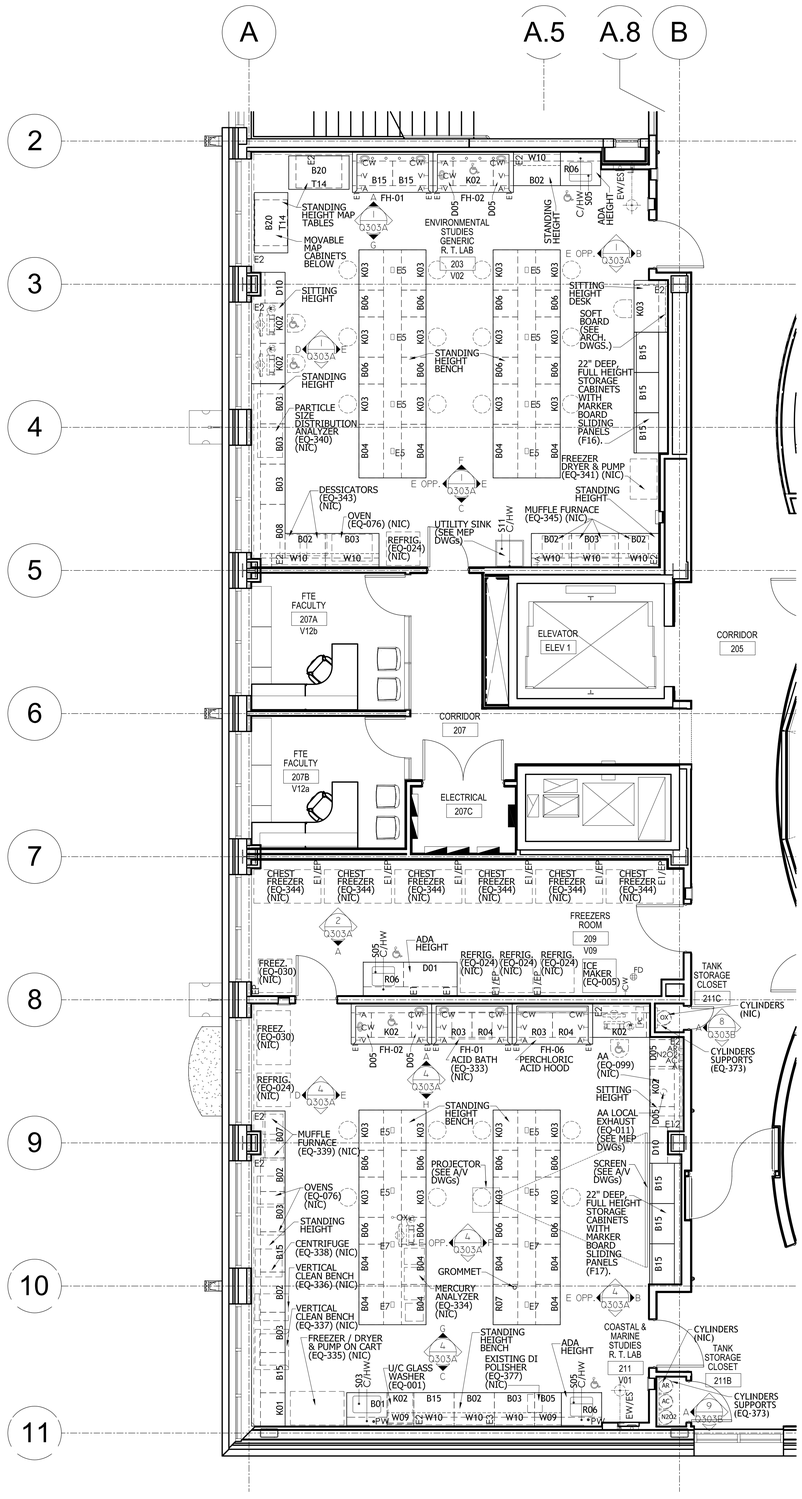

1 SECOND FLOOR ENLARGED LAB PLAN
1/4" = 1'-0"

PROJECT NORTH

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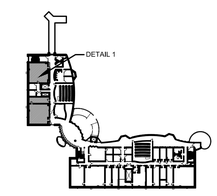
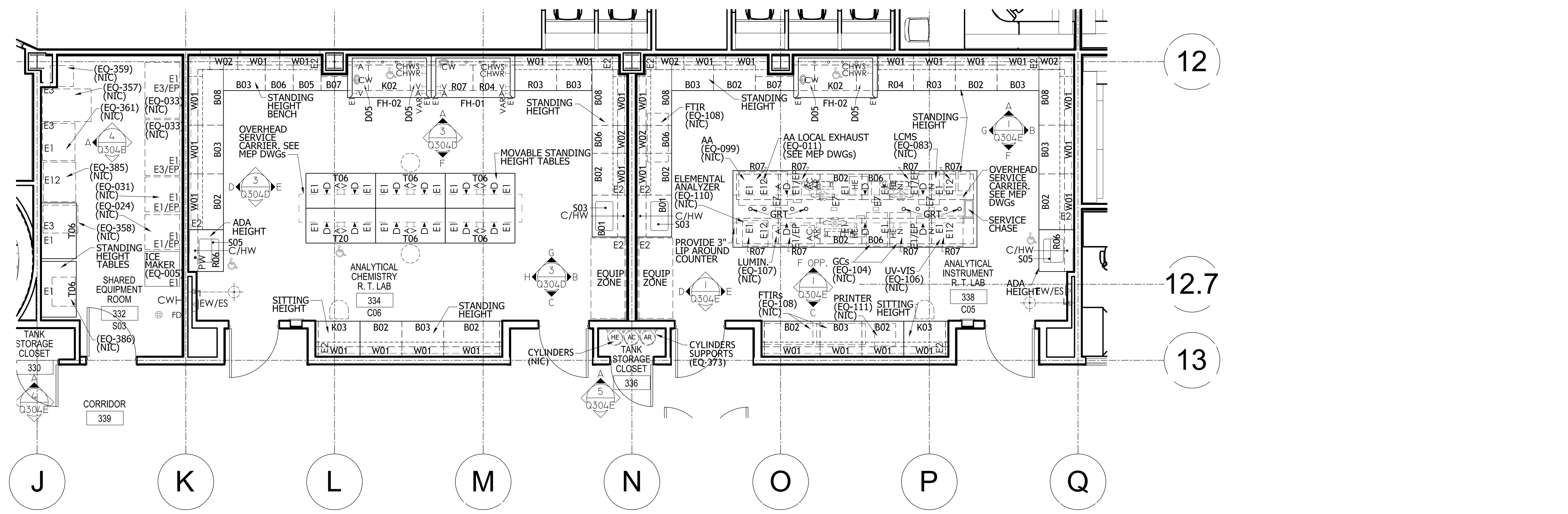
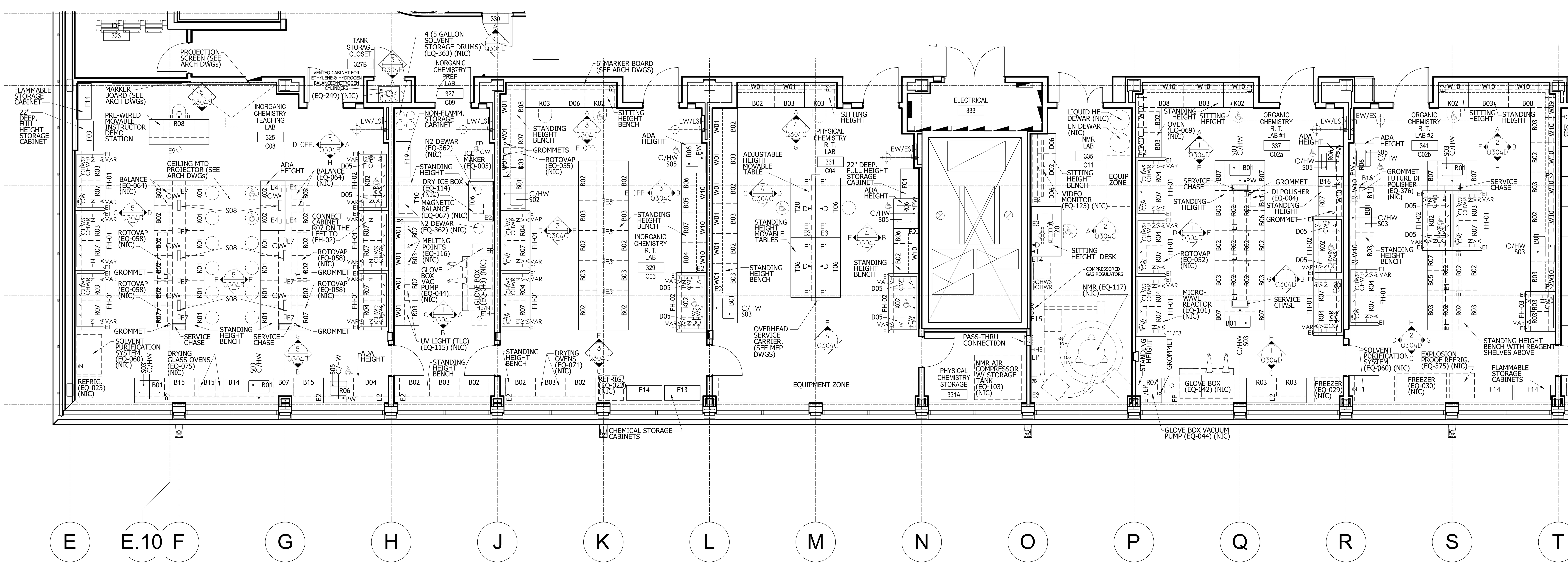


drawing title: SECOND FLOOR ENLARGED LAB PLANS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES	volume 1 of 2
REVISIONS: remark / date / description — 11-21-2012 / Bid Documents	DRAWING PREPARED BY: SST Planners, Laboratory Planners; 1501 Wilson Blvd. Suite 507 Arlington, VA 22209 703.875.8787	date 11-21-2012; scale 1/4" = 1'-0"
project: SCSU NEW ACADEMIC LABORATORY BUILDING		drawn by SST; designed by SST
CAD no. 1393; project no. BI-RS-283		drawing no. Q203B



1 THIRD FLOOR ENLARGED LAB PLAN
1/4" = 1'-0"

PROJECT NORTH



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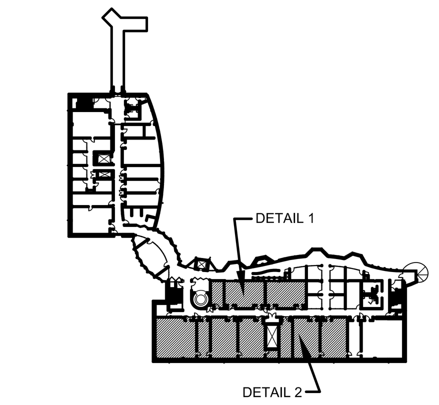
1/4" = 1'-0"

PROJECT NORTH



drawing title	THIRD FLOOR ENLARGED LAB PLAN
REVISIONS	
mark / date / description	11-21-2012 Bid Documents

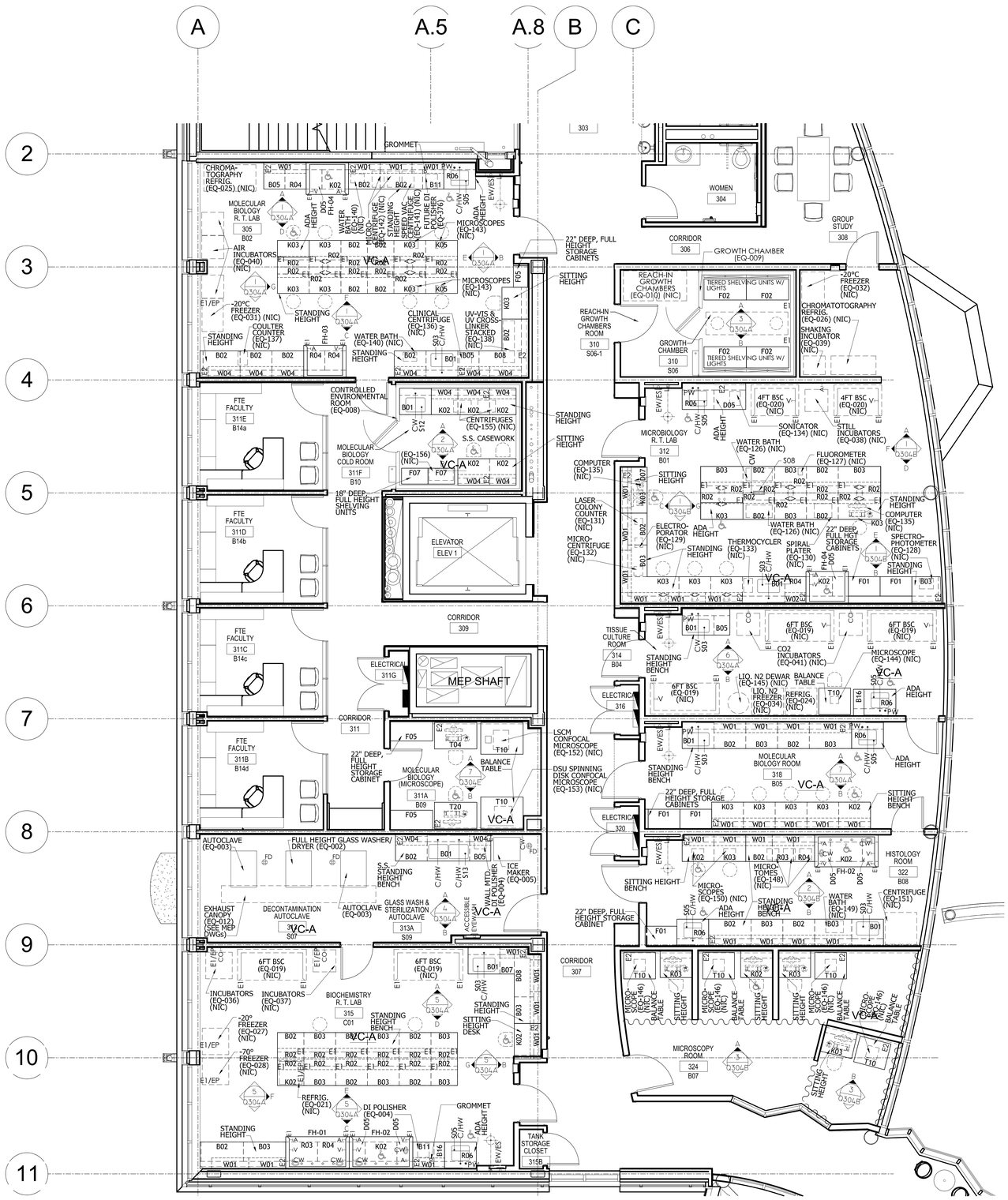
STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
SST Planners
Laboratory Planners
1501 Wilson Blvd.
Suite 507
Arlington, VA 22209
703.875.8787

project
SCSU NEW ACADEMIC LABORATORY BUILDING

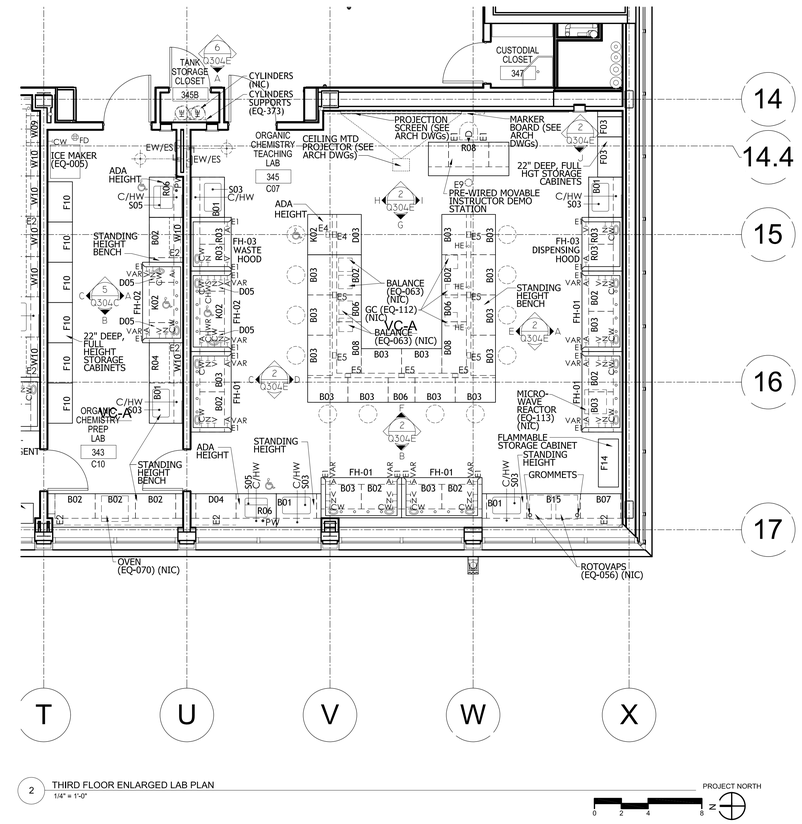
CAD no. 1393
project no. BI-RS-283

volume 1 of 2
date 11-21-2012
scale 1/4" = 1'-0"
drawn by SST
approved by SST
drawing no. Q204A



1 THIRD FLOOR ENLARGED LAB PLAN
1/4" = 1'-0"

PROJECT NORTH



2 THIRD FLOOR ENLARGED LAB PLAN
1/4" = 1'-0"

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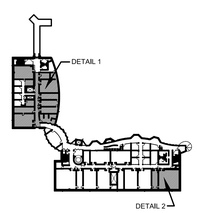

drawing title: THIRD FLOOR ENLARGED LAB PLANS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		sheet name: 1 of 2
REVISIONS: mark / date / description			date: 11-21-2012
9-21-2012	Bid Documents		scale: 1/4" = 1'-0"
	SST Planners Laboratory Planners — 1501 Wilson Blvd. Suite 507 Arlington, VA 22209 703.875.8787		drawn by: SST
	SCSU NEW ACADEMIC LABORATORY BUILDING		approved by: SST
	CAD file: 1393	project no.: BI-RS-283	drawing no.: Q204B

07/08/2021 10:02:7 PM

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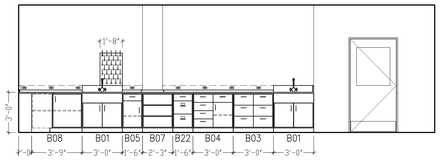

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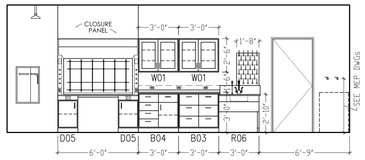

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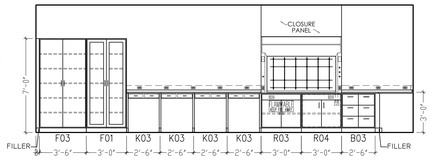

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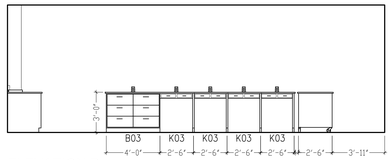
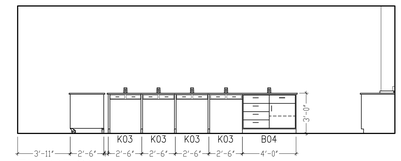


ELEVATION D



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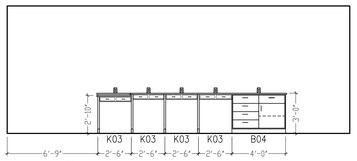
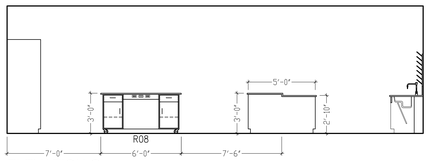
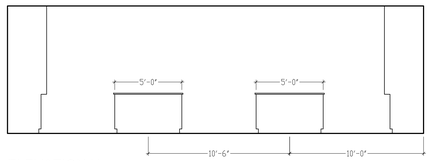


ELEVATION F

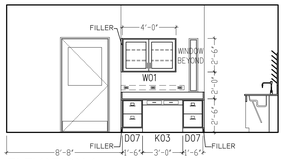


ELEVATION G

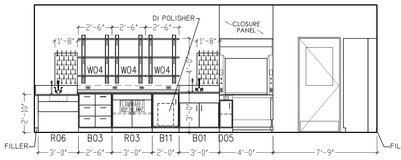


ELEVATION H

1 Q301A NANO-TECHNOLOGY TEACHING LAB - ROOM #013 / P08
SCALE: 1/4"= 1'-0"



ELEVATION A



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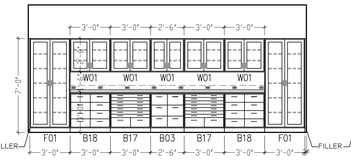

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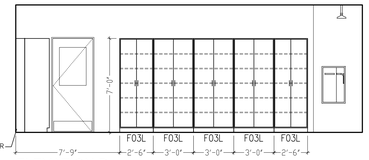

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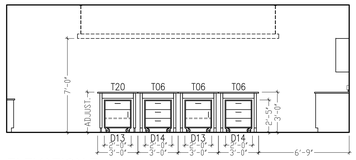
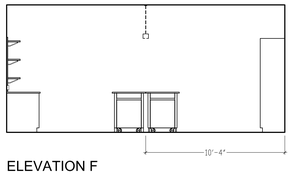
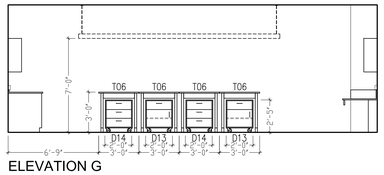


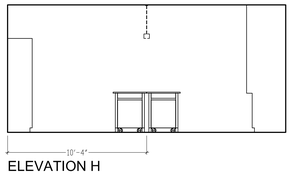
ELEVATION E



ELEVATION F

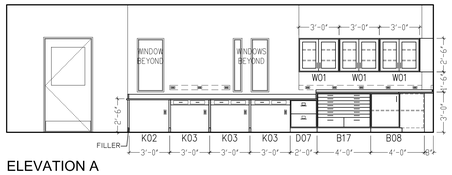


ELEVATION G

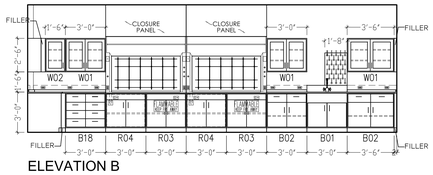


ELEVATION H

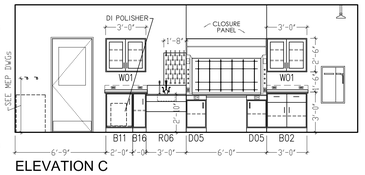
2 Q301A NANO-TECHNOLOGY PROJECT STORAGE/PREP LAB - ROOM #015 / P08-1
SCALE: 1/4"= 1'-0"



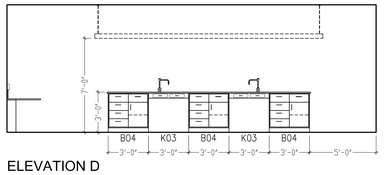
ELEVATION A



ELEVATION B



ELEVATION C



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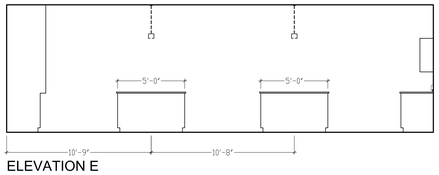


ELEVATION E

3 Q301A NTC MULTI-PURPOSE SUPPORT/PREP LAB - ROOM #019 / P14
SCALE: 1/4"= 1'-0"

drawing title: LOWER LEVEL INTERIOR LAB ELEVATIONS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

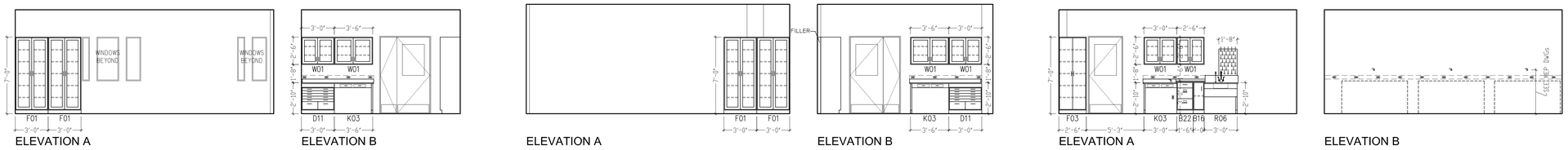
STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

drawing prepared by: SST Planners, Laboratory Planners
1501 Wilson Blvd.
Suite 507
Arlington, VA 22209
703.875.8787

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD file: 1393
project no.: BI-RS-283

sheet name: 1 of 2
date: 11-21-2012
scale: 1/4" = 1'-0"
drawn by: SST
approved by: SST
drawing no.: Q301A



ELEVATION A — ELEVATION B

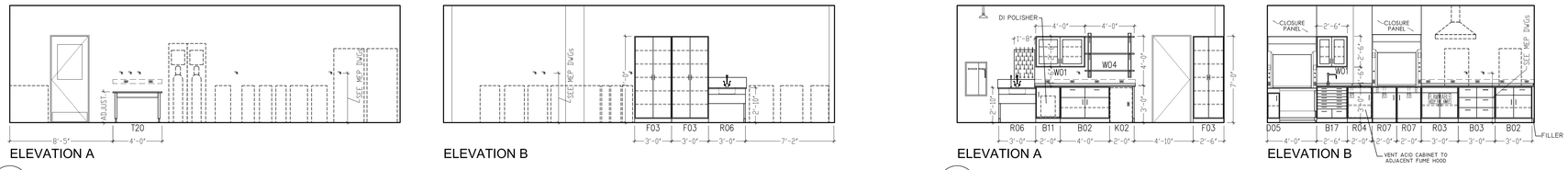
1 Q301B NTC SEM LAB - ROOM #032 / P12
SCALE: 1/4"= 1'-0"

ELEVATION A — ELEVATION B

2 Q301B NTC TEM LAB - ROOM #034 / P13
SCALE: 1/4"= 1'-0"

ELEVATION A — ELEVATION B

3 Q301B NTC MICROTOMY LAB - ROOM #029 / P11
SCALE: 1/4"= 1'-0"



ELEVATION A — ELEVATION B

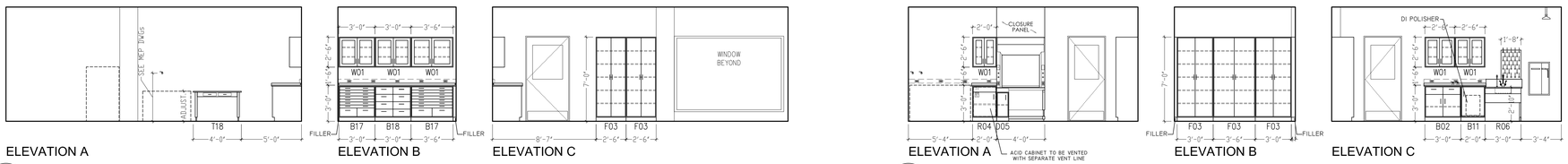
4 Q301B NTC UTILITY ROOM - ROOM #036 / P16
SCALE: 1/4"= 1'-0"

ELEVATION A — ELEVATION B

5 Q301B NTC SPECIAL PREP SPECIALIZED PROCESS LAB - ROOM #027 / P15
SCALE: 1/4"= 1'-0"

ELEVATION A — ELEVATION B — ELEVATION C — ELEVATION D — ELEVATION E

6 Q301B NANOMATERIALS R.T. LAB - ROOM #042 / P04
SCALE: 1/4"= 1'-0"

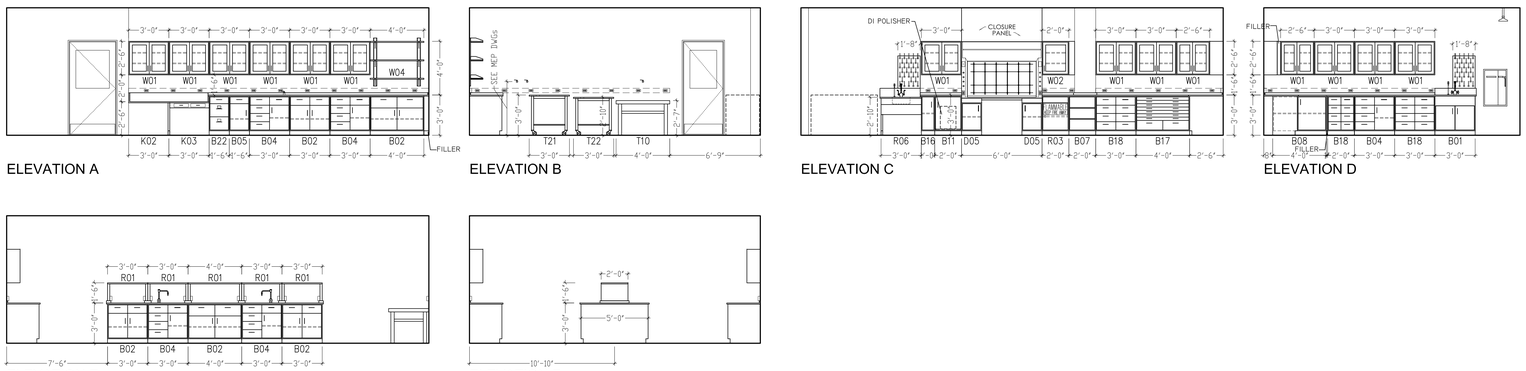


ELEVATION A — ELEVATION B — ELEVATION C

7 Q301B NTC AFM/FIB INSTRUMENT LAB - ROOM #038 / P10
SCALE: 1/4"= 1'-0"

ELEVATION A — ELEVATION B — ELEVATION C

8 Q301B PHYSICS PREP LAB - ROOM #033 / P17
SCALE: 1/4"= 1'-0"



ELEVATION A — ELEVATION B — ELEVATION C — ELEVATION D

ELEVATION E — ELEVATION F

9 Q301B MATERIALS SCIENCE R.T. LAB - ROOM #031 / P03
SCALE: 1/4"= 1'-0"

Drawing Info: LOWER LEVEL INTERIOR LAB ELEVATIONS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		Sheet 1 of 2
mark / date / description	DRAWING PREPARED BY		Date 11-21-2012
11-21-2012 Bid Documents	SST Planners Laboratory Planners	1501 Wilson Blvd. Suite 507 Arlington, VA 22209 703.875.8787	Scale 1/4" = 1'-0"
	SCSU NEW ACADEMIC LABORATORY BUILDING		Drawn by SST
			Approved by SST
	AD No. 1393	PROJECT No. BI-RS-283	Drawing No. Q301B

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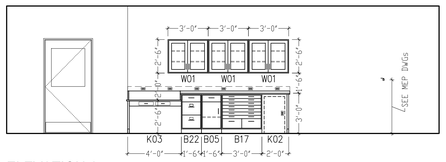
Pete Pelli



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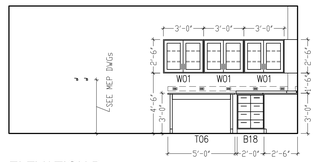

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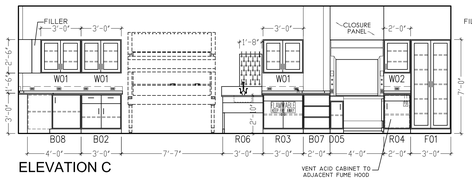
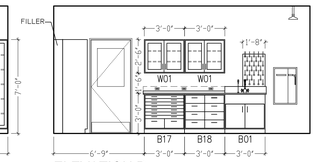
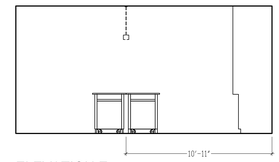


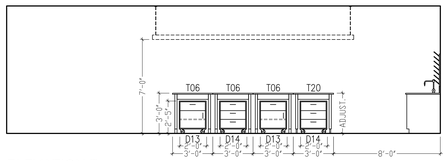
ELEVATION C



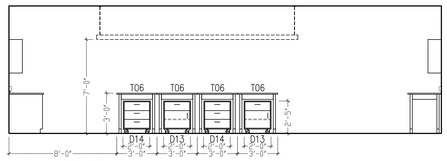
ELEVATION D



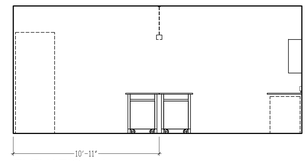
ELEVATION E



ELEVATION F

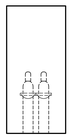


ELEVATION G



ELEVATION H

1 Q301C P01 HIGH RESOLUTION OPTICS R.T. LAB - ROOM #037 / P01
SCALE: 1/4"= 1'-0"



ELEVATION A

2 Q301C TANK STORAGE CLOSET - ROOM #035
SCALE: 1/4"= 1'-0"

drawing title
LOWER LEVEL INTERIOR LAB ELEVATIONS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

DRAWING PREPARED BY
SST Planners
Laboratory Planners
1501 Wilson Blvd.
Suite 507
Arlington, VA 22209
703.875.8787

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

sheet name 1 of 2
date 11-21-2012
scale 1/4" = 1'-0"
drawn by SST
checked by SST
drawing no. Q301C

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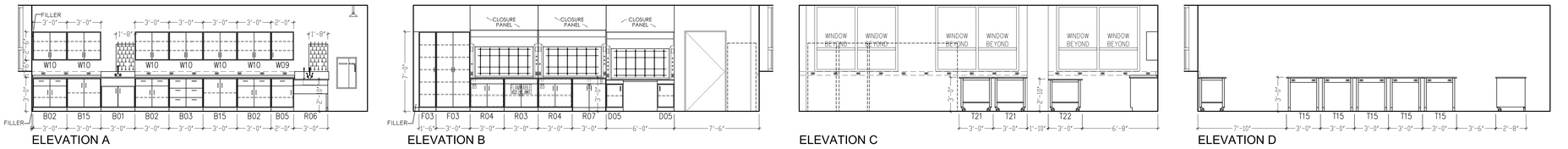
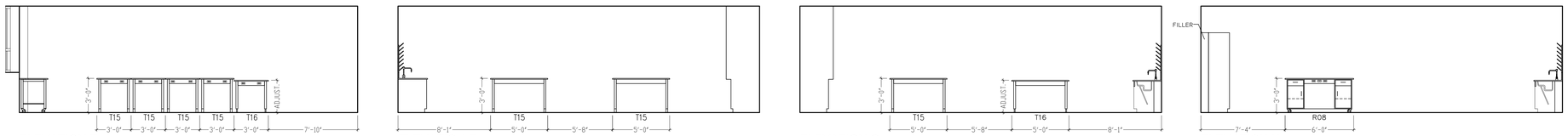


ELEVATION A

ELEVATION B

ELEVATION C

ELEVATION D



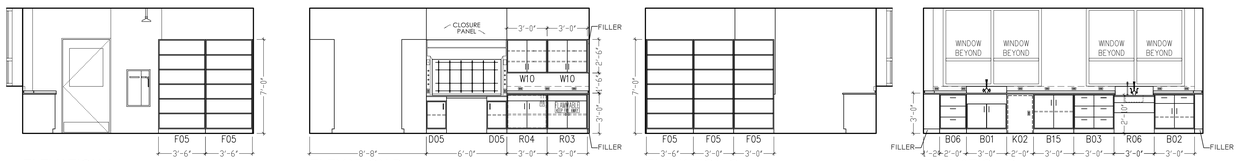
ELEVATION E

ELEVATION F

ELEVATION G

ELEVATION H

1 Q302A COASTAL & MARINE STUDIES TEACHING LAB - ROOM #103 / V03
SCALE: 1/4"= 1'-0"



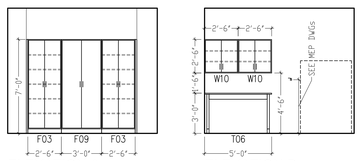
ELEVATION A

ELEVATION B

ELEVATION C

ELEVATION D

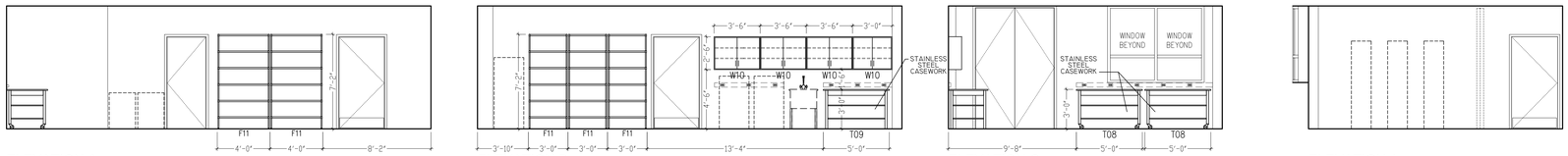
2 Q302A COASTAL & MARINE STUDIES PREP LAB - ROOM #103A / V04
SCALE: 1/4"= 1'-0"



ELEVATION A

ELEVATION B

3 Q302A FIELD EQUIPMENT STORAGE ROOM - ROOM #109A / V05
SCALE: 1/4"= 1'-0"



ELEVATION A

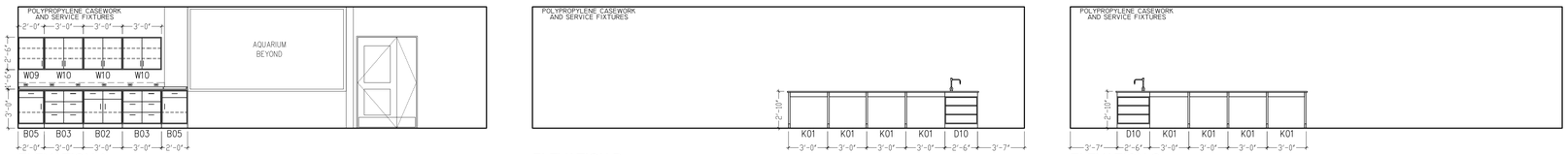
ELEVATION B

ELEVATION C

4 Q302A WET LAB/MUD ROOM - ROOM #109 / S01
SCALE: 1/4"= 1'-0"

ELEVATION A

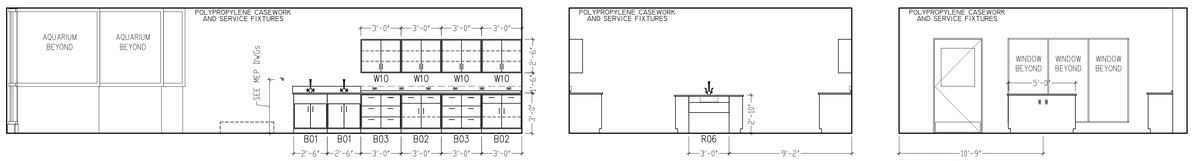
5 Q302A PHYTO-PLANKTON ROOM - ROOM #111B / V07
SCALE: 1/4"= 1'-0"



ELEVATION A

ELEVATION B

ELEVATION C



ELEVATION D

ELEVATION E

ELEVATION F

6 Q302A SALTWATER AQUARIUM ROOM - ROOM #111 / V06
SCALE: 1/4"= 1'-0"

drawing title
GROUND FLOOR INTERIOR LAB ELEVATIONS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

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CAD no. 1393
project no. BI-RS-283

sheet name 1 of 2
date 11-21-2012
scale 1/4" = 1'-0"
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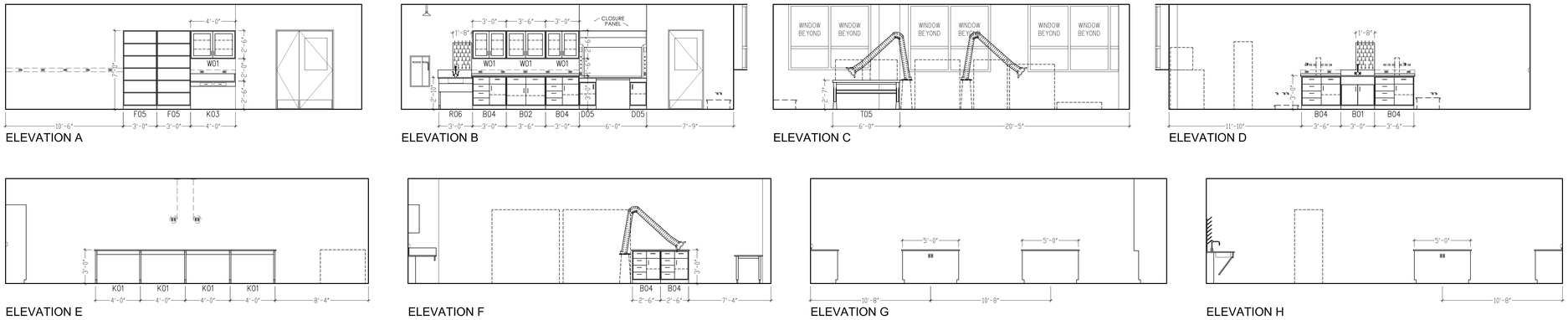
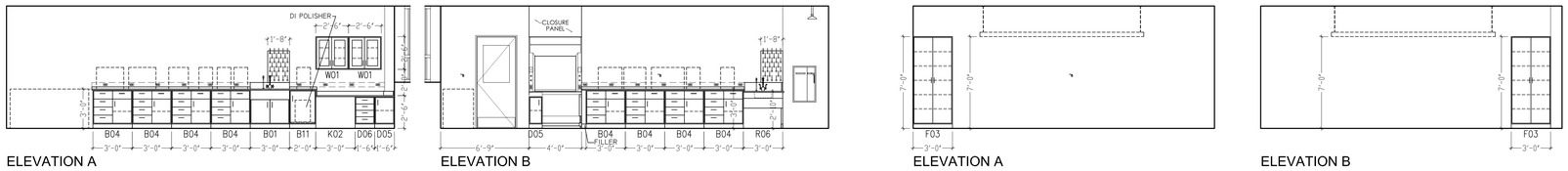
checked by SST
drawing no. Q302A

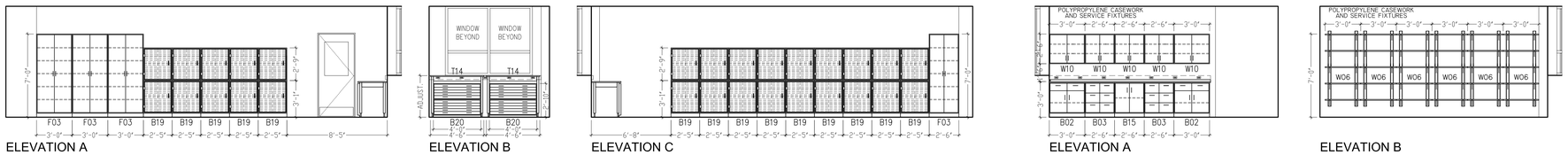


1 Q302B ROCK SAMPLE PREP DIRTY-WET LAB - ROOM #119 / E15
SCALE: 1/4"= 1'-0"



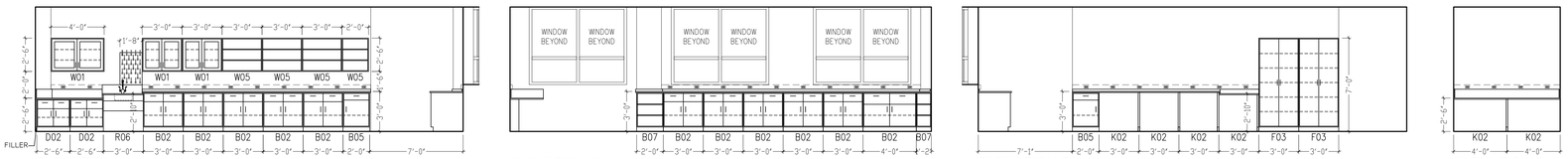
2 Q302B ROCK SAMPLE PREP DIRTY-DRY LAB - ROOM #123 / E16
SCALE: 1/4"= 1'-0"

3 Q302B IMAGING ROOM - ROOM #133 / P07-1
SCALE: 1/4"= 1'-0"

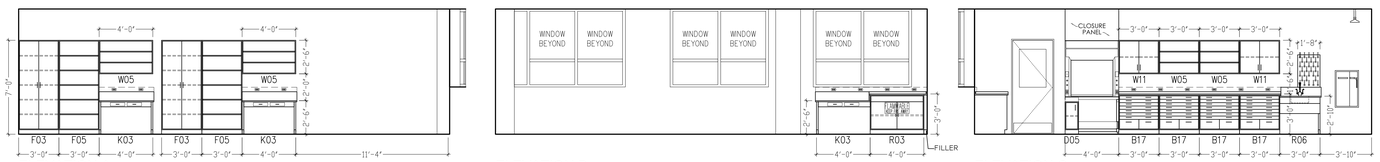


4 Q302B HISTORICAL SOFT ROCK GEOLOGY PREP/STORAGE ROOM - ROOM #125 / E14
SCALE: 1/4"= 1'-0"

5 Q302B STORAGE ROOM - ROOM #111A / V08
SCALE: 1/4"= 1'-0"



6 Q302B ASTRONOMICAL INSTRUMENT & IMAGING R.T. LAB - ROOM #131 / P07
SCALE: 1/4"= 1'-0"



7 Q302B PHOTONICS R.T. LAB - ROOM #141 / P05
SCALE: 1/4"= 1'-0"

drawing title
GROUND FLOOR INTERIOR LAB ELEVATIONS

REVISIONS

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project no. BI-RS-283

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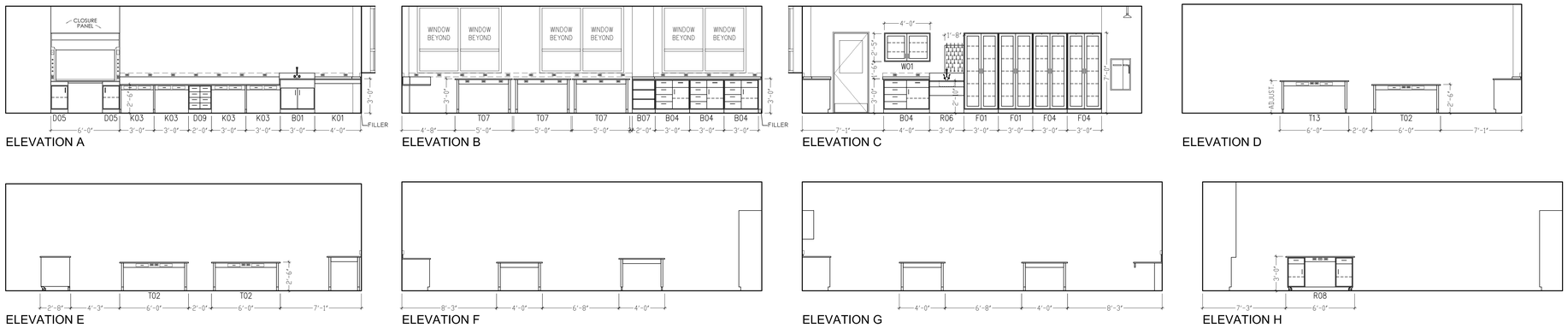
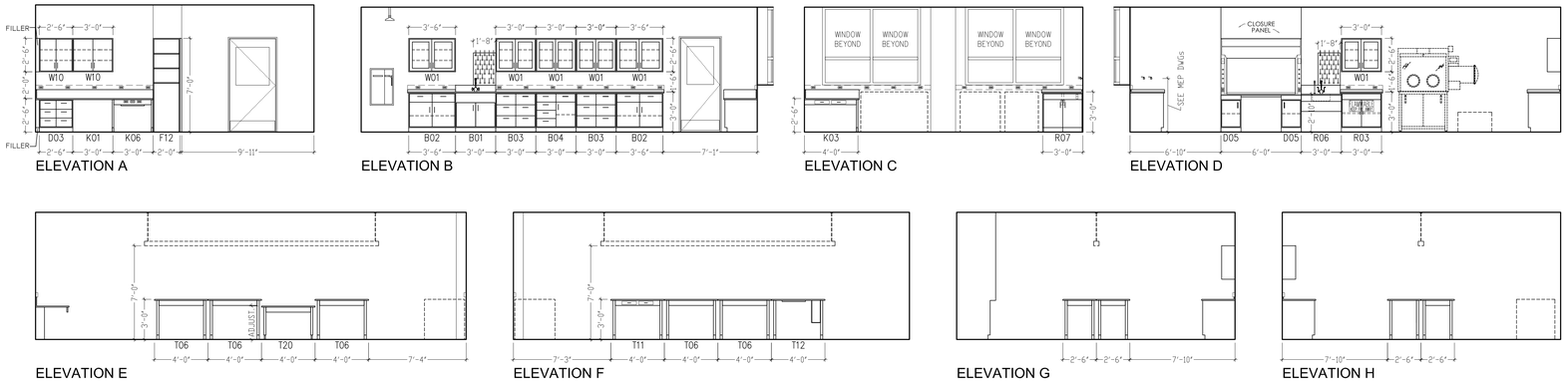
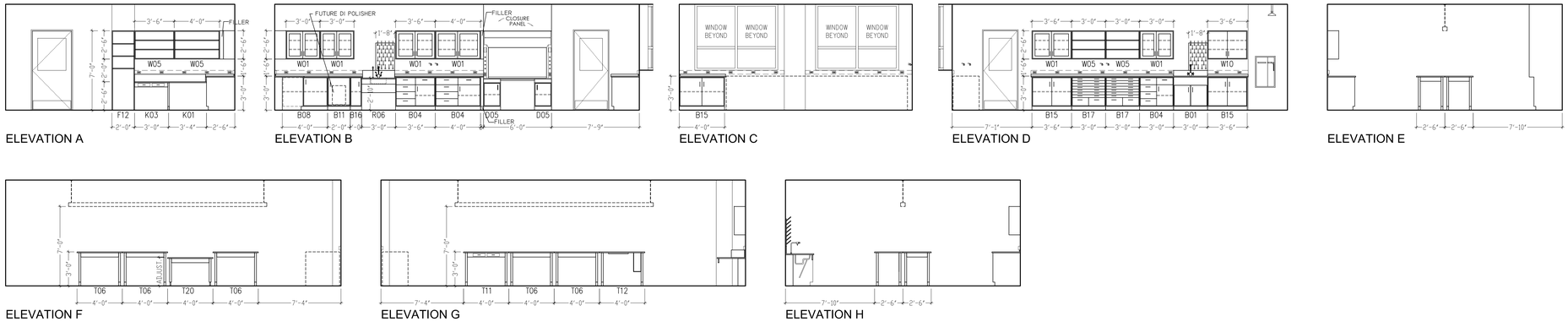


1 Q302C HISTORICAL SOFT ROCK GEOLOGY TEACHING LAB - ROOM #127 / E05
SCALE: 1/4"= 1'-0"



2 Q302C SYNTH. & ELEC. CHARACTERIZATION R.T. LAB - ROOM #135 / P02
SCALE: 1/4"= 1'-0"



3 Q302C PHYSICS GENERIC R.T. LAB - ROOM #139 / P06
SCALE: 1/4"= 1'-0"

drawing title: GROUND FLOOR INTERIOR LAB ELEVATIONS

REVISIONS

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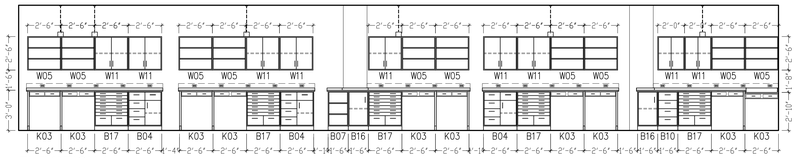
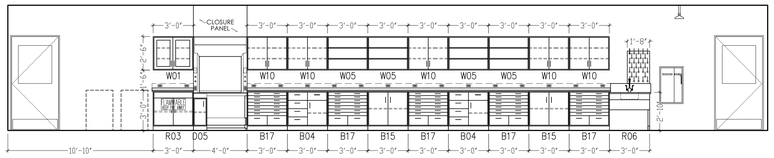
CAD file: 1393
project no.: BI-RS-283

sheet name: 1 of 2
date: 11-21-2012
scale: 1/4" = 1'-0"
drawn by: SST
approved by: SST
drawing no.: Q302C

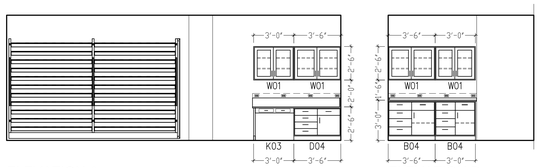


ELEVATION A



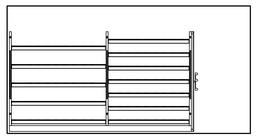
ELEVATION B

1 Q302D OPTICS TEACHING LAB - ROOM #124 / P09
SCALE: 1/4"= 1'-0"

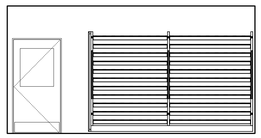


ELEVATION A

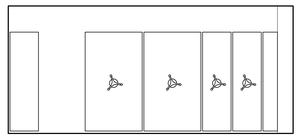
ELEVATION B



ELEVATION C

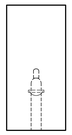


ELEVATION D



ELEVATION E

2 Q302D ROCK SAMPLE STORAGE - ROOM #116 / E11
SCALE: 1/4"= 1'-0"



ELEVATION A

3 Q302D TANK STORAGE CLOSET - ROOM #137
SCALE: 1/4"= 1'-0"

Drawing title: GROUND FLOOR INTERIOR LAB ELEVATIONS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES	sheet: 1 of 2
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11-21-2012 Bid Documents	SST Planners Laboratory Planners — 1501 Wilson Blvd. Suite 507 Arlington, VA 22209 703.875.8787	scale: 1/4" = 1'-0"
	project: SCSU NEW ACADEMIC LABORATORY BUILDING	drawn by: SST
		approved by: SST
	CAD file: 1393 / project no.: BI-RS-283	drawing no.: Q302D

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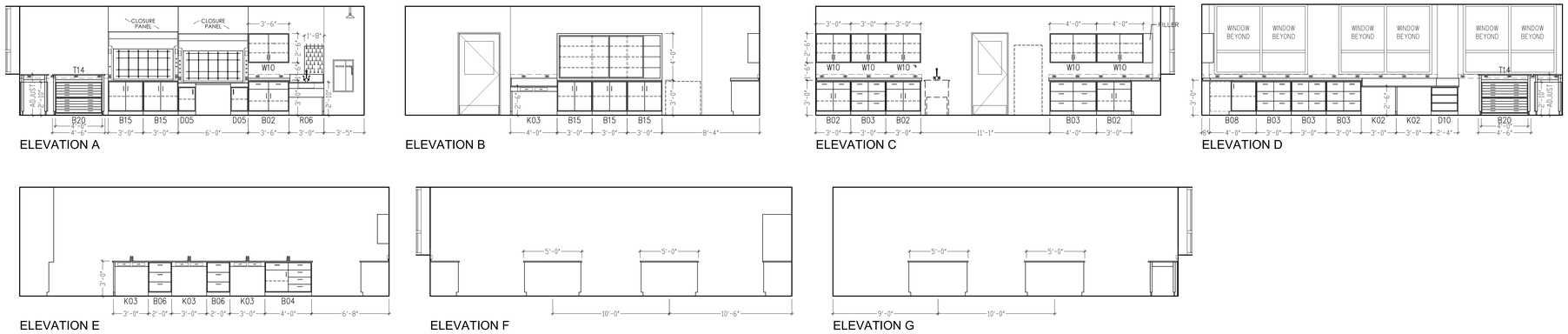
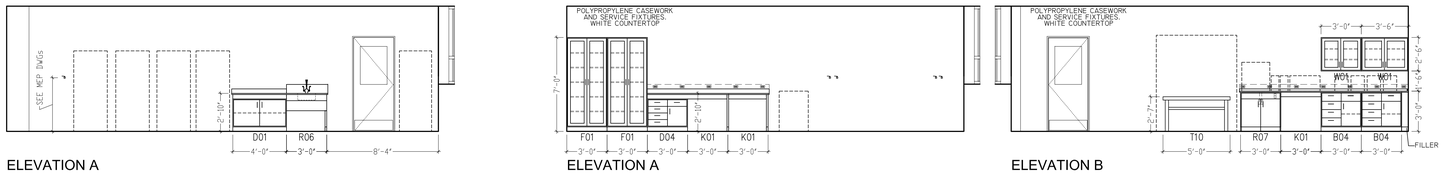
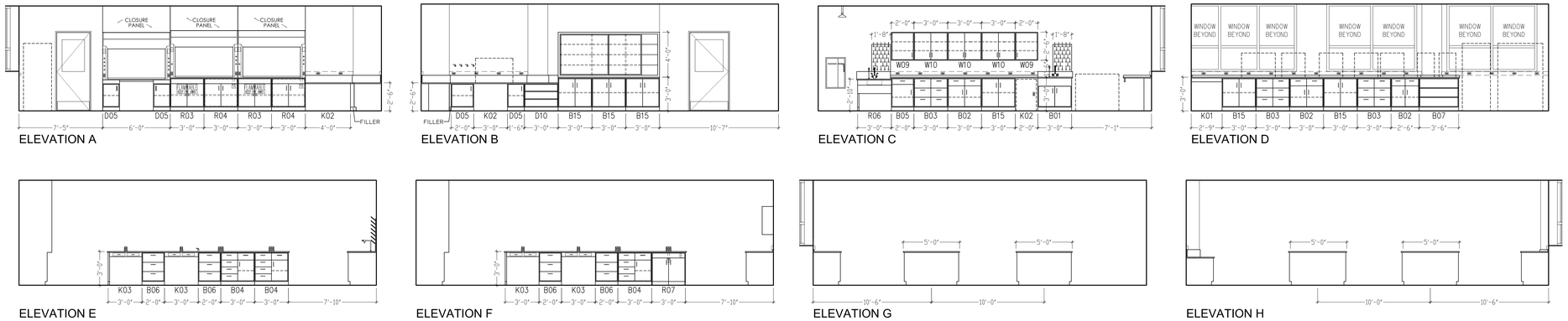


1 Q303A ENVIRONMENTAL STUDIES GENERIC R.T. LAB - ROOM #203 / V02
SCALE: 1/4"= 1'-0"

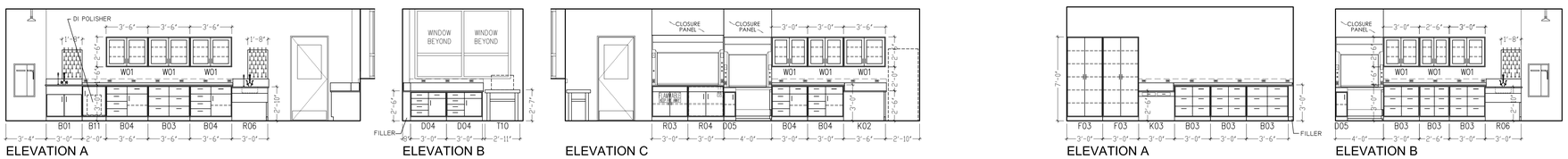


2 Q303A FREEZERS ROOM - ROOM #209 / V09
SCALE: 1/4"= 1'-0"

3 Q303A X-RAY ANALYSIS LAB - ROOM #225 / E06
SCALE: 1/4"= 1'-0"



4 Q303A COASTAL & MARINE STUDIES R.T. LAB - ROOM #211 / V01
SCALE: 1/4"= 1'-0"



5 Q303A X-RAY SAMPLE PREP LAB - ROOM #223 / E07
SCALE: 1/4"= 1'-0"

6 Q303A E02A EARTH SCIENCE GENERIC R.T. LAB #1 - ROOM #239 / E02a
SCALE: 1/4"= 1'-0"

drawing title
SECOND FLOOR INTERIOR LAB ELEVATIONS

REVISIONS

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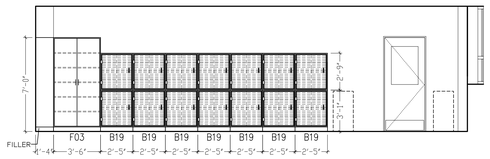
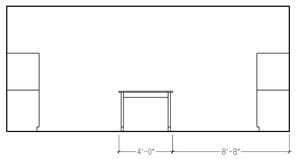
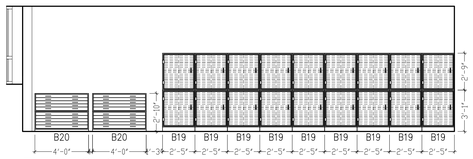
drawing no. Q303A



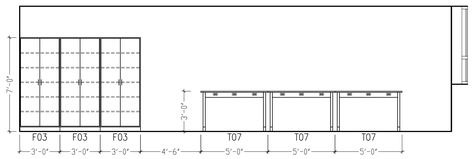
ELEVATION A



ELEVATION B

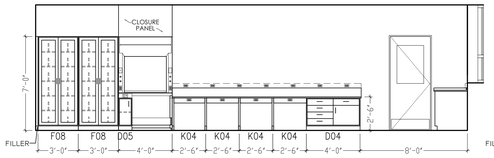


ELEVATION C

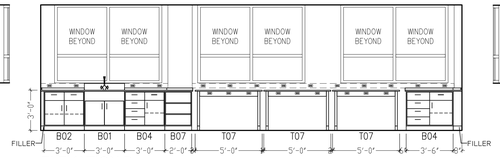


ELEVATION D

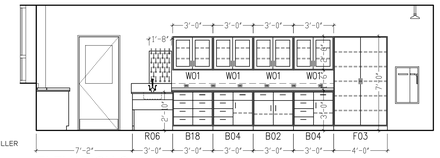
1 Q303B MINDERALOGY, PETROLOGY SAMPLE STORAGE SECURE ROOM - ROOM #219 / E12
SCALE: 1/4"= 1'-0"



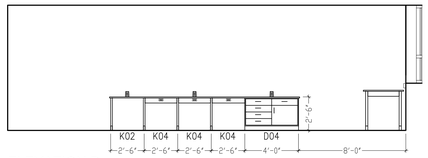
ELEVATION A



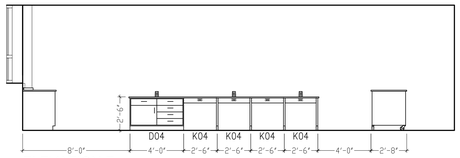
ELEVATION B



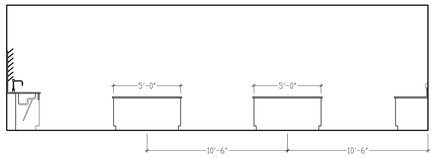
ELEVATION C



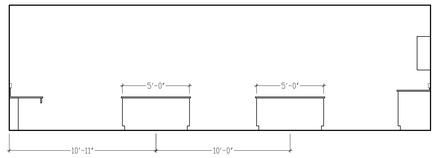
ELEVATION D



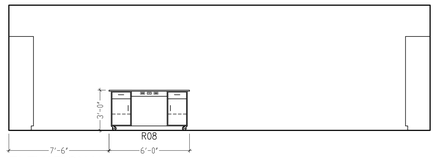
ELEVATION E



ELEVATION F

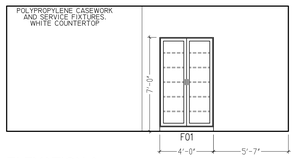


ELEVATION G

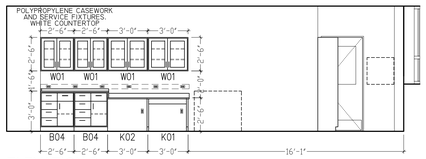


ELEVATION H

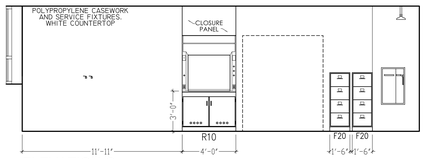
2 Q303B MINERALOGY, PETROLOGY TEACHING LABORATORY - ROOM #221 / E03
SCALE: 1/4"= 1'-0"



ELEVATION A

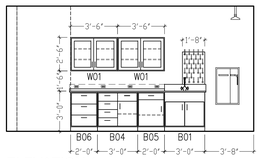


ELEVATION B

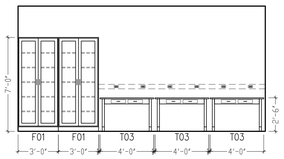


ELEVATION C

3 Q303B LASER ABLATION, ICP-MS LAB - ROOM #229 / E08
SCALE: 1/4"= 1'-0"

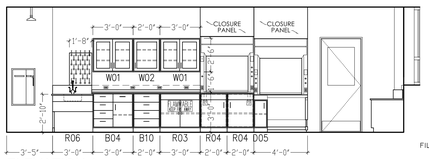


ELEVATION A

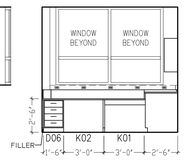


ELEVATION B

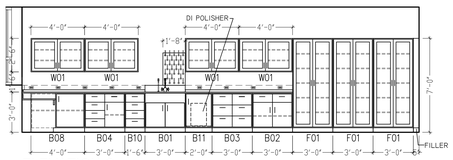
4 Q303B E02C EARTH SCIENCE GENERIC R.T. LAB #3 - ROOM #230 / E02c
SCALE: 1/4"= 1'-0"



ELEVATION A

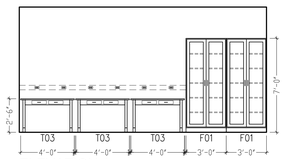


ELEVATION B

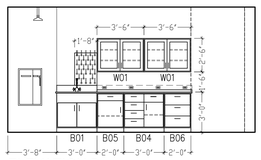


ELEVATION C

5 Q303B GENERAL GEO-CHEMISTRY STUDENT RESEARCH LAB - ROOM #235 / E10
SCALE: 1/4"= 1'-0"

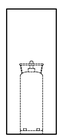


ELEVATION A



ELEVATION B

6 Q303B GENERIC RESEARCH LAB #4 - ROOM #234 / E02d
SCALE: 1/4"= 1'-0"

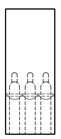


ELEVATION A

7 Q303B TANK STORAGE CLOSET - ROOM #227

ELEVATION A

8 Q303B TANK STORAGE CLOSET - ROOM #211C



ELEVATION A

9 Q303B TANK STORAGE CLOSET - ROOM #211B

drawing title: SECOND FLOOR INTERIOR LAB ELEVATIONS

REVISIONS

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	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
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project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

sheet no. 1 of 2
date 11-21-2012
scale 1/4" = 1'-0"
drawn by SST
checked by SST
drawing no. Q303B

10/26/2007 10:02:27 PM
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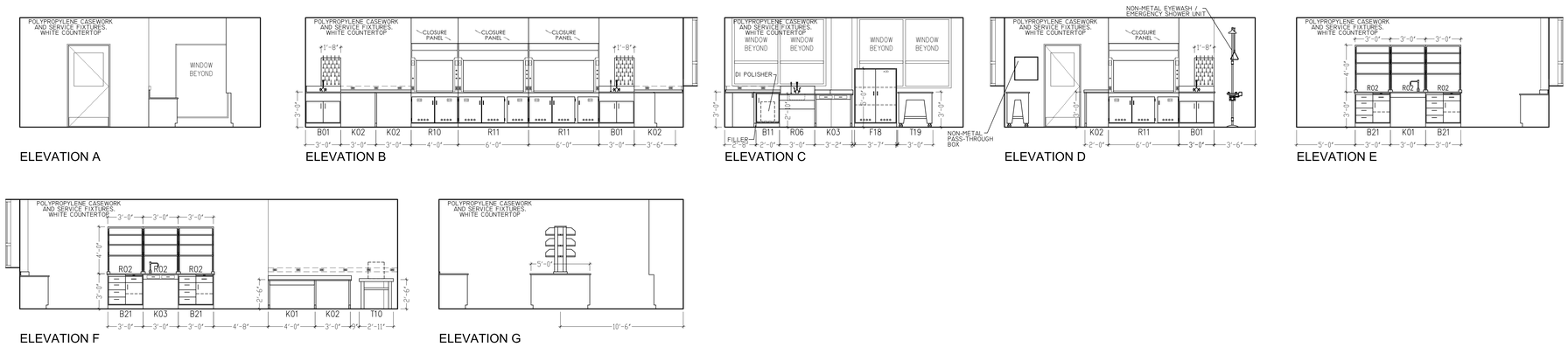
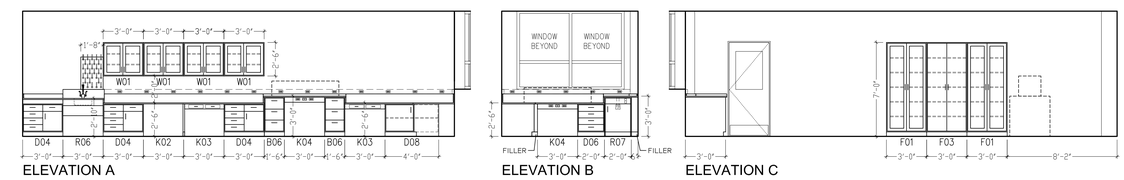
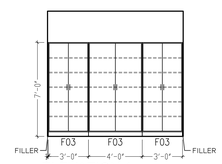


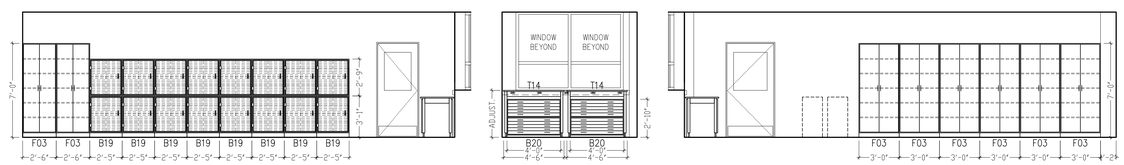
1 Q303C CLEAN GEO-CHEMISTRY LAB - ROOM #233A / E09
SCALE: 1/4"= 1'-0"



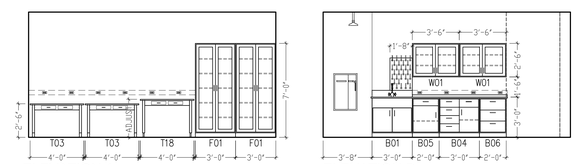
2 Q303C CATHODO-LUMINESCENCE/FLUID INCLUSION R.T. LAB - ROOM #237 / E01
SCALE: 1/4"= 1'-0"



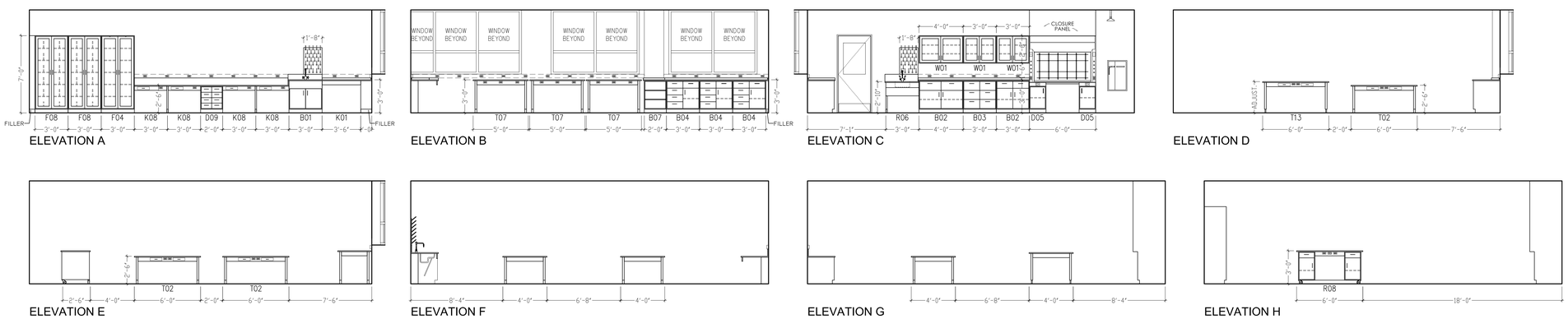
3 Q303C STRUCTURAL GEOLOGY FIELD EQUIP STG ROOM - ROOM #241A / E13
SCALE: 1/4"= 1'-0"



4 Q303C STRUCTURAL GEOLOGY SAMPLE STG. - ROOM #241 / E04-1
SCALE: 1/4"= 1'-0"



5 Q303C GENERIC RESEARCH LAB #2 - ROOM #226 / E02b
SCALE: 1/4"= 1'-0"



6 Q303C STRUCTURAL GEOLOGY TEACHING LAB - ROOM #243 / E04
SCALE: 1/4"= 1'-0"

drawing title: SECOND FLOOR INTERIOR LAB ELEVATIONS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		sheet name: 1 of 2
revisions: mark / date / description			date: 11-21-2012
11-21-2012	Bid Documents		scale: 1/4" = 1'-0"
drawing prepared by: SST Planners, Laboratory Planners	1501 Willson Blvd. Suite 507 Arlington, VA 22209 703.875.8787		drawn by: SST
project: SCSU NEW ACADEMIC LABORATORY BUILDING			checked by: SST
CAD no.: 1393	project no.: BI-RS-283		drawing no.: Q303C

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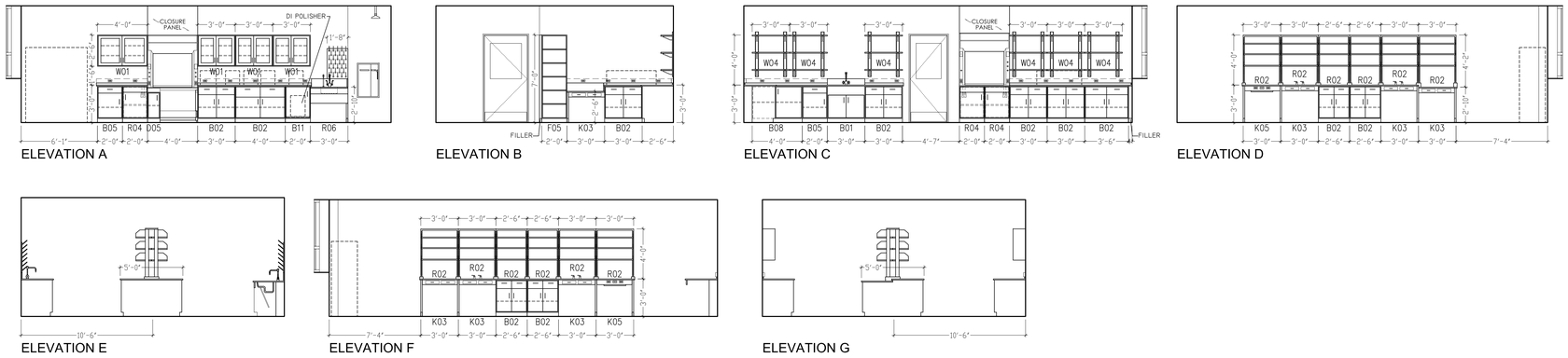
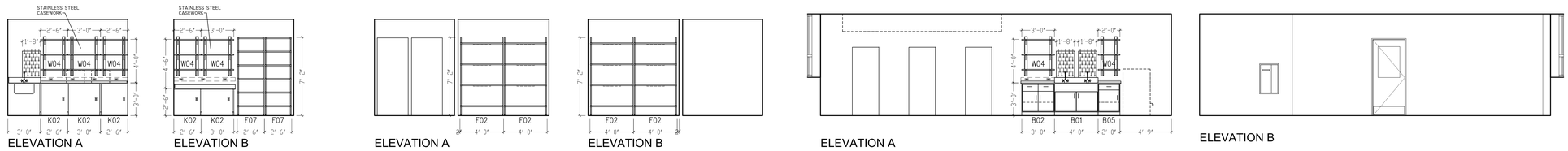
File Path:



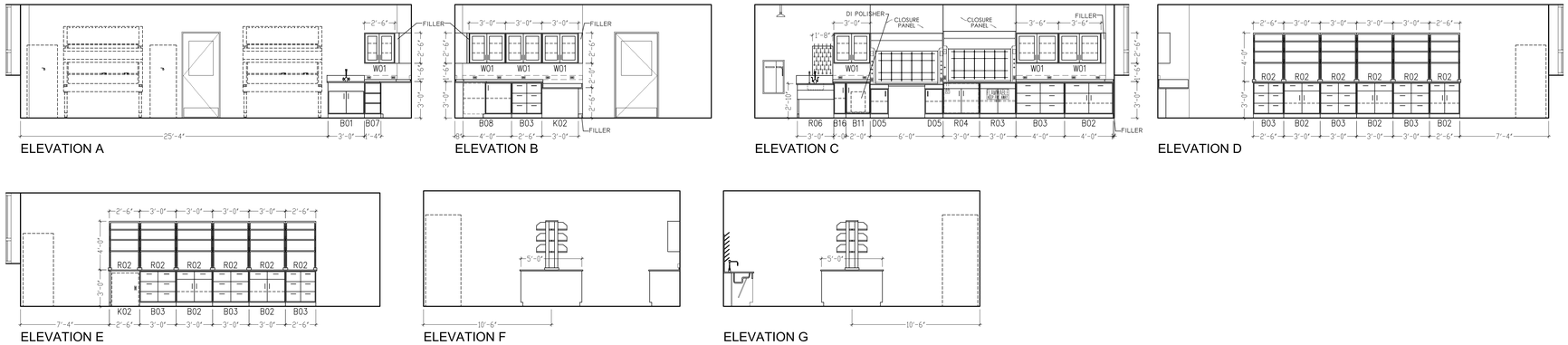
1 Q304A MOLECULAR BIOLOGY R.T. LAB - ROOM #305 / B02
SCALE: 1/4"= 1'-0"



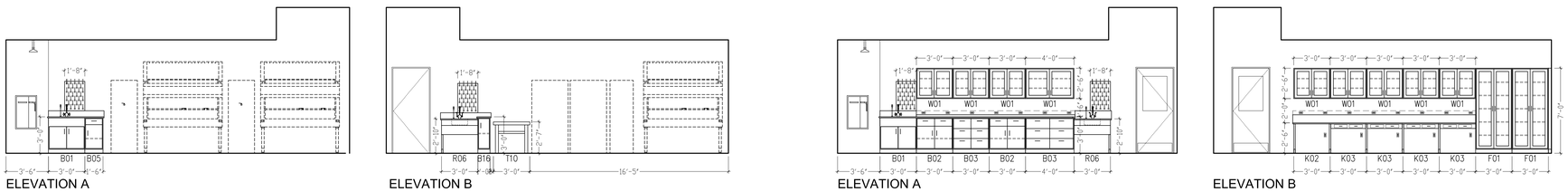
2 Q304A MOLECULAR BIOLOGY COLD ROOM - ROOM #311F / B10
SCALE: 1/4"= 1'-0"

3 Q304A GROWTH CHAMBER - ROOM #310 / S06
SCALE: 1/4"= 1'-0"

4 Q304A GLASS WASH & STERILIZATION AUTOCLAVE - ROOM #313A / S09
SCALE: 1/4"= 1'-0"



5 Q304A BIOCHEMISTRY R.T. LAB - ROOM #315 / C01
SCALE: 1/4"= 1'-0"



6 Q304A TISSUE CULTURE ROOM - ROOM #314 / B04
SCALE: 1/4"= 1'-0"

7 Q304A MOLECULAR BIOLOGY ROOM - ROOM #318 / B05
SCALE: 1/4"= 1'-0"

drawing title: THIRD FLOOR INTERIOR LAB ELEVATIONS

REVISIONS

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	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
SST Planners
Laboratory Planners
1501 Wilson Blvd.
Suite 507
Arlington, VA 22209
703.875.8787

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

sheet name: 1 of 2
date: 11-21-2012
scale: 1/4" = 1'-0"
drawn by: SST
checked by: SST
drawing no. Q304A

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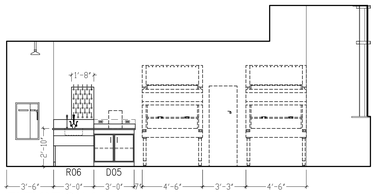
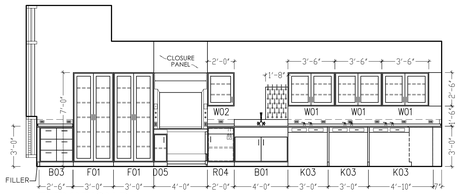
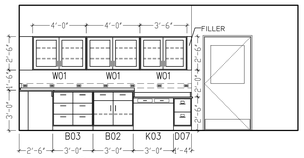


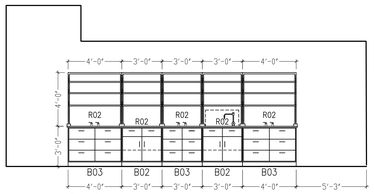
ELEVATION A



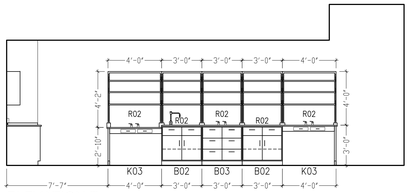
ELEVATION B



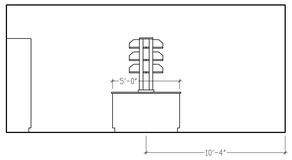
ELEVATION C



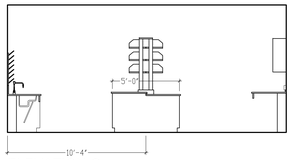
ELEVATION D



ELEVATION E

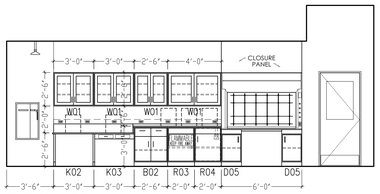


ELEVATION F

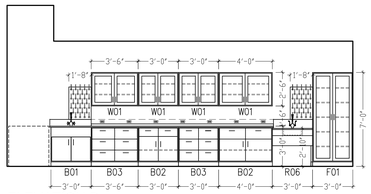


ELEVATION G

1 Q304B MICROBIOLOGY R.T. LAB - ROOM #312 / B01
SCALE: 1/4"= 1'-0"

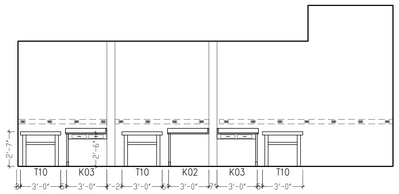


ELEVATION A

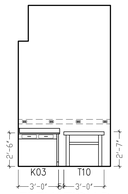


ELEVATION B

2 Q304B HISTOLOGY ROOM - ROOM #322 / B08
SCALE: 1/4"= 1'-0"

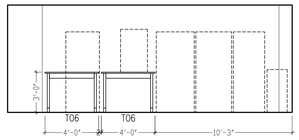


ELEVATION A



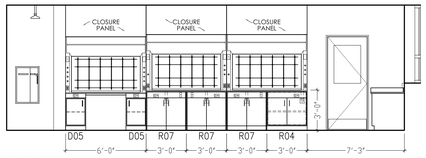
ELEVATION B

3 Q304B MICROSCOPY ROOM - ROOM #324 / B07
SCALE: 1/4"= 1'-0"

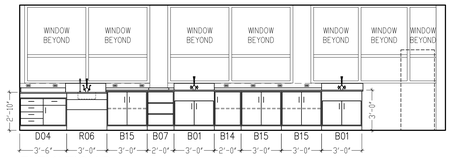


ELEVATION A

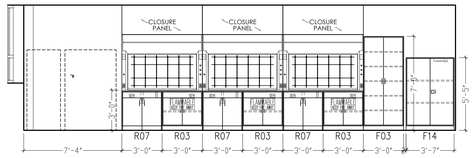
4 Q304B SHARED EQUIPMENT ROOM - ROOM #332 / S03
SCALE: 1/4"= 1'-0"



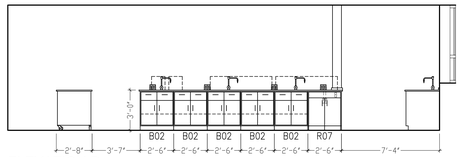
ELEVATION A



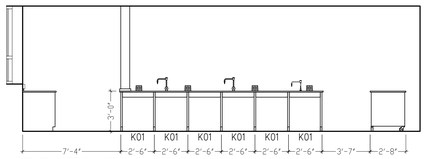
ELEVATION B



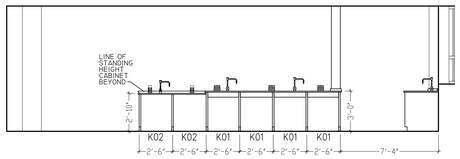
ELEVATION C



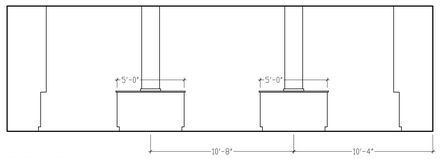
ELEVATION D



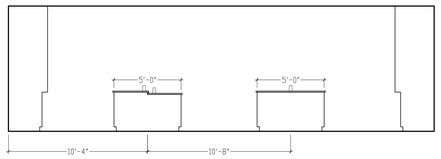
ELEVATION E



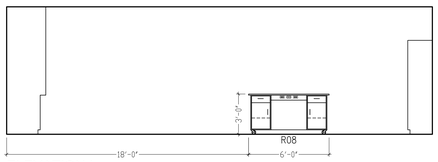
ELEVATION F



ELEVATION G



ELEVATION H



ELEVATION I

5 Q304B INORGANIC CHEMISTRY TEACHING LAB - ROOM #325 / C08
SCALE: 1/4"= 1'-0"

drawing title
THIRD FLOOR INTERIOR LAB ELEVATIONS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

drawing prepared by
SST Planners
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1501 Wilson Blvd.
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project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 1393
project no. BI-RS-283

sheet name 1 of 2
date 11-21-2012
scale 1/4" = 1'-0"
drawn by SST
checked by SST
drawing no. Q304B

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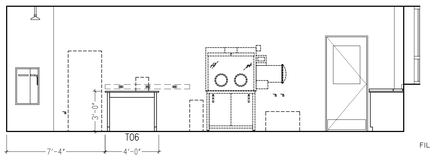
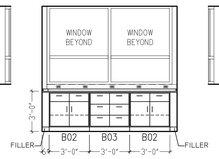
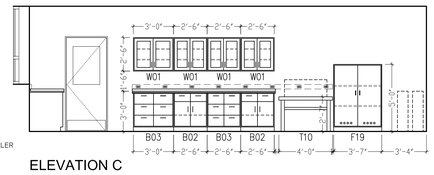
File Path



ELEVATION A

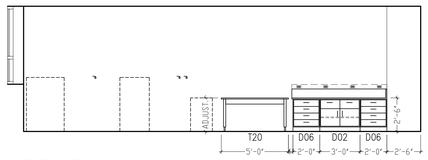


ELEVATION B



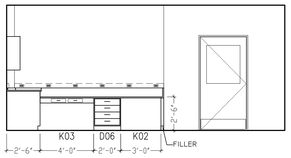
ELEVATION C

1 Q304C INORGANIC CHEMISTRY PREP LAB - ROOM #327 / C09
SCALE: 1/4"= 1'-0"

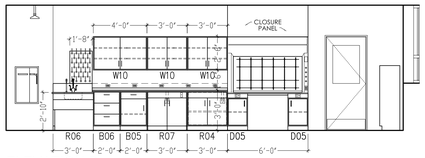


ELEVATION A

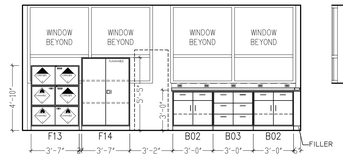
2 Q304C NMR LAB - ROOM #335 / C11
SCALE: 1/4"= 1'-0"



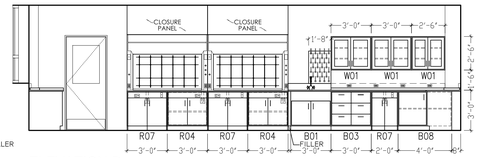
ELEVATION A



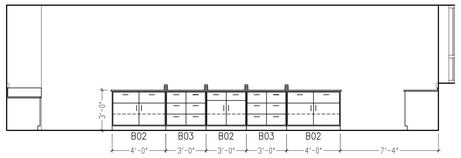
ELEVATION B



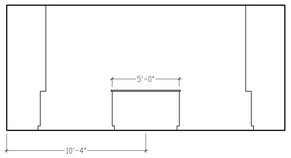
ELEVATION C



ELEVATION D

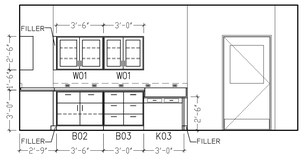


ELEVATION E

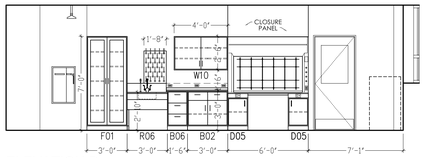


ELEVATION F

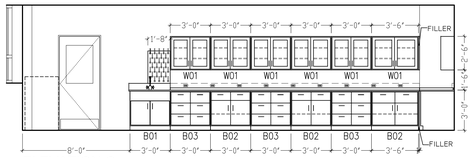
3 Q304C INORGANIC CHEMISTRY R.T. LAB - ROOM #329 / C03
SCALE: 1/4"= 1'-0"



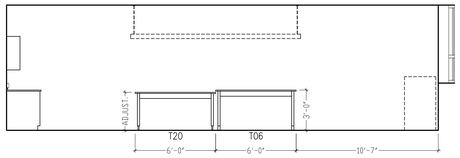
ELEVATION A



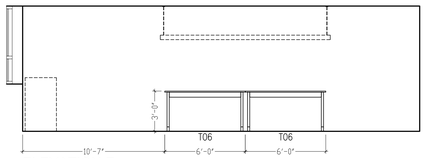
ELEVATION B



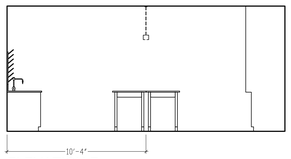
ELEVATION C



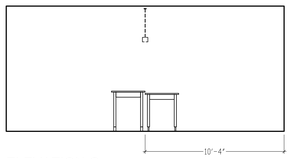
ELEVATION D



ELEVATION E

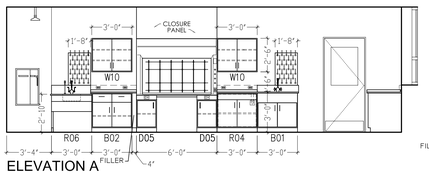


ELEVATION F

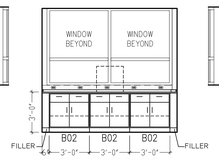


ELEVATION G

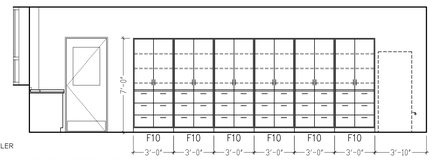
4 Q304C PHYSICAL CHEM R.T. LAB - ROOM #331 / C04
SCALE: 1/4"= 1'-0"



ELEVATION A



ELEVATION B



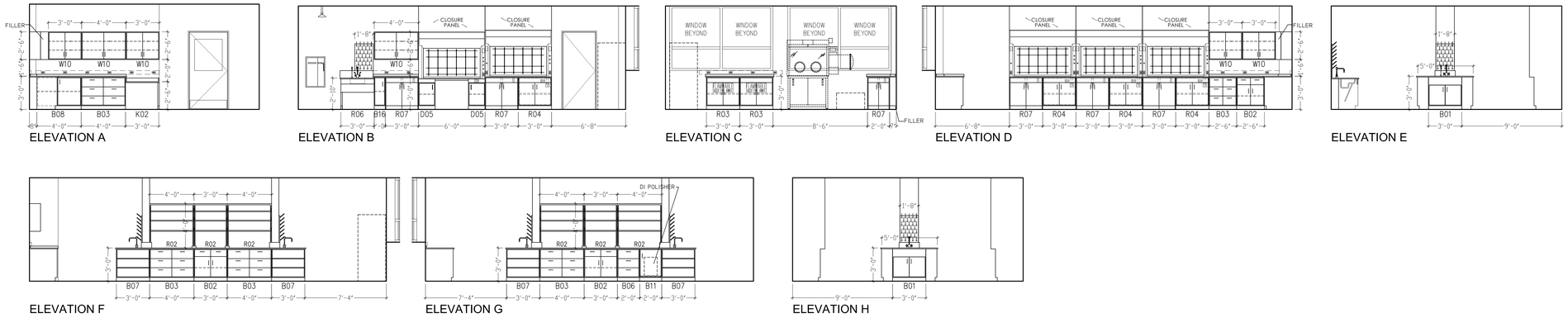
ELEVATION C

5 Q304C ORGANIC CHEMISTRY PREP LAB - ROOM #343 / C10
SCALE: 1/4"= 1'-0"

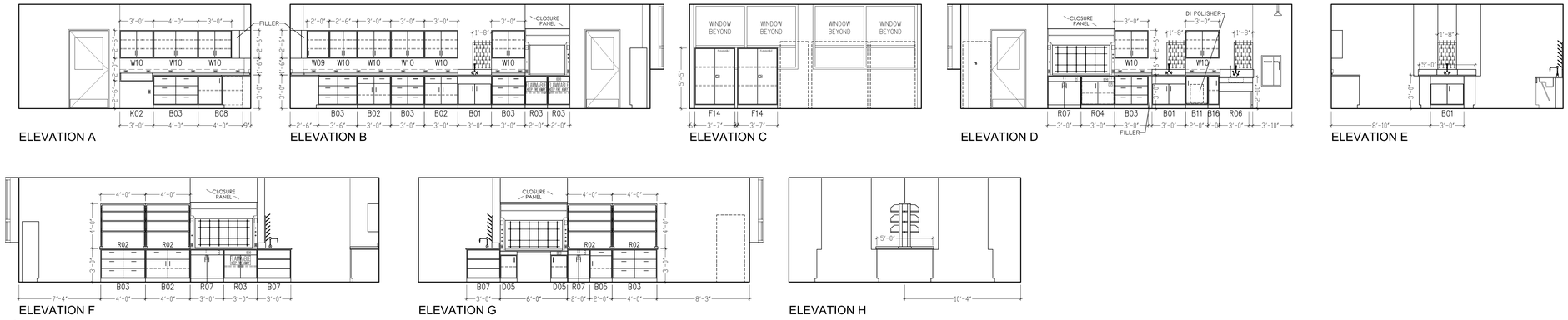
drawing title: THIRD FLOOR INTERIOR LAB ELEVATIONS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		sheet name: 1 of 2
REVISIONS			date: 11-21-2012
mark / date / description: 11-21-2012 Bid Documents	DRAWING PREPARED BY: SST Planners Laboratory Planners, 1501 Wilson Blvd. Suite 507 Arlington, VA 22209 703.875.8787		scale: 1/4" = 1'-0"
	project: SCSU NEW ACADEMIC LABORATORY BUILDING		drawn by: SST
			checked by: SST
	CAD no.: 1393	project no.: BI-RS-283	drawing no.: Q304C

10/26/2007 10:02:27 PM

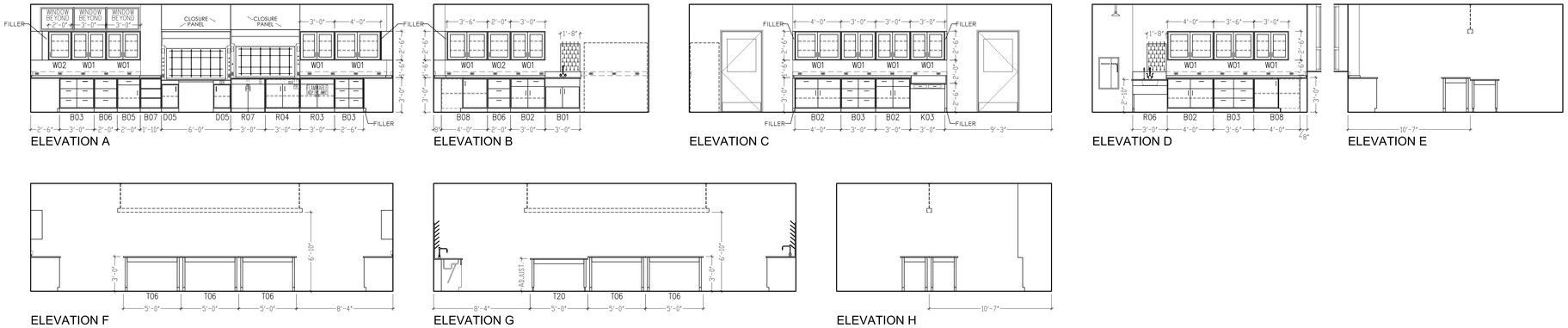
File Path:



1 Q304D ORGANIC CHEMISTRY R.T. LAB #1 - ROOM #337 / C02a
SCALE: 1/4"= 1'-0"



2 Q304D CO2B ORGANIC CHEM R.T. LAB #2 - ROOM #341 / C02b
SCALE: 1/4"= 1'-0"



3 Q304D ANALYTICAL CHEMISTRY R.T. LAB - ROOM #334 / C06
SCALE: 1/4"= 1'-0"

Drawing title: THIRD FLOOR INTERIOR LAB ELEVATIONS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

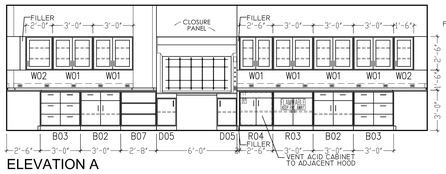
DRAWING PREPARED BY
SST Planners
Laboratory Planners
1501 Wilson Blvd.
Suite 507
Arlington, VA 22209
703.875.8787

SCSU NEW ACADEMIC LABORATORY BUILDING

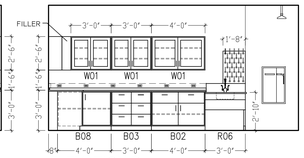
CAD file: 1393
project no.: BI-RS-283

sheet: 1 of 2
date: 11-21-2012
scale: 1/4" = 1'-0"
drawn by: SST
reviewed by: SST
drawing no.: Q304D

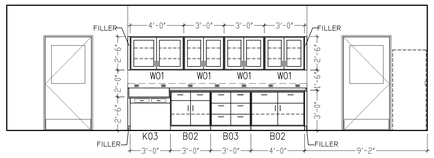
File Path:



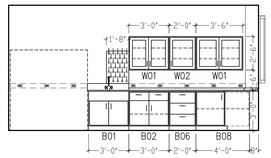
ELEVATION A



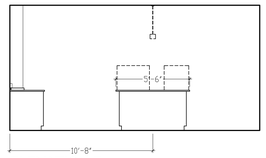
ELEVATION B



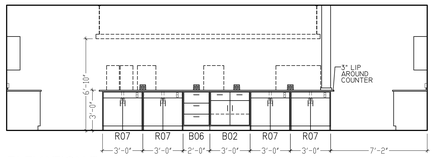
ELEVATION C



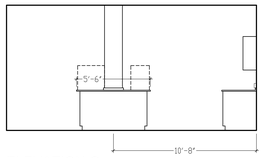
ELEVATION D



ELEVATION E

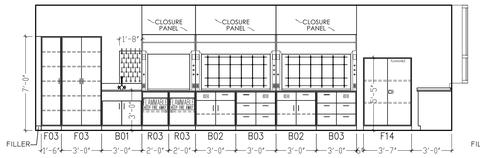


ELEVATION F

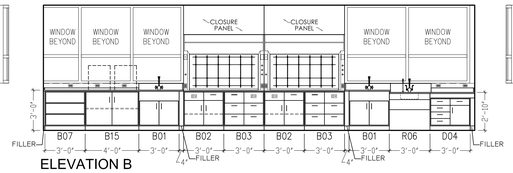


ELEVATION G

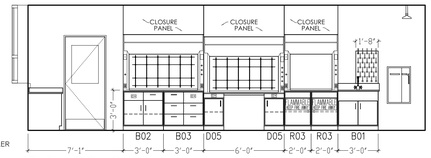
1 Q304E ANALYTICAL INSTRUMENT R.T. LAB - ROOM #338 / C05
SCALE: 1/4"= 1'-0"



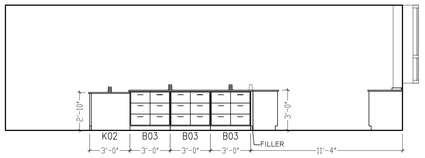
ELEVATION A



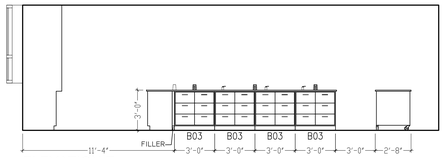
ELEVATION B



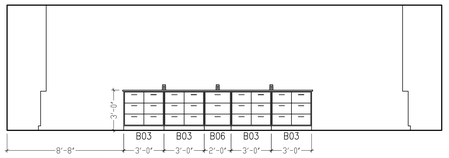
ELEVATION C



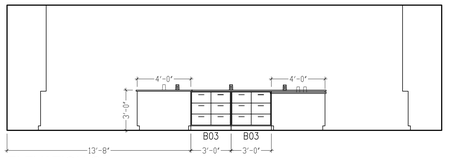
ELEVATION D



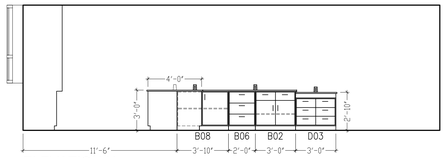
ELEVATION E



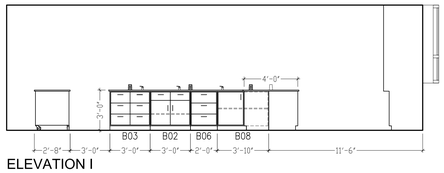
ELEVATION F



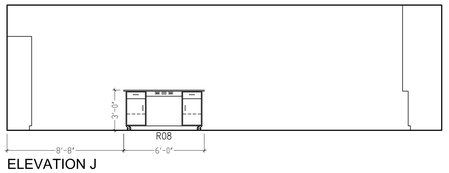
ELEVATION G



ELEVATION H

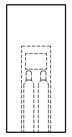


ELEVATION I



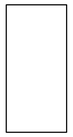
ELEVATION J

2 Q304E ORGANIC CHEMISTRY TEACHING LAB - ROOM #345 / C07
SCALE: 1/4"= 1'-0"



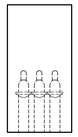
ELEVATION A

3 Q304E TANK STORAGE CLOSET - ROOM #327B
SCALE: 1/4"= 1'-0"



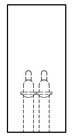
ELEVATION A

4 Q304E TANK STORAGE CLOSET - ROOM #330
SCALE: 1/4"= 1'-0"



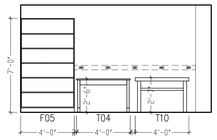
ELEVATION A

5 Q304E TANK STORAGE CLOSET - ROOM #336
SCALE: 1/4"= 1'-0"

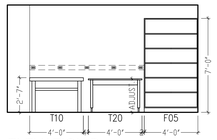


ELEVATION A

6 Q304E TANK STORAGE CLOSET - ROOM #345B
SCALE: 1/4"= 1'-0"



ELEVATION A



ELEVATION B

7 Q304E MOLECULAR BIOLOGY (MICROSCOPE) - ROOM #311A / B09
SCALE: 1/4"= 1'-0"

Drawing title: THIRD FLOOR INTERIOR LAB ELEVATIONS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES	Volume: 1 of 2
REVISIONS: mark / date / description — 11-21-2012 Bid Documents	DRAWING PREPARED BY: SST Planners Laboratory Planners, 1501 Wilson Blvd. Suite 507 Arlington, VA 22209 703.875.8787	Date: 11-21-2012
		Scale: 1/4" = 1'-0"
		Drawn by: SST
	SCSU NEW ACADEMIC LABORATORY BUILDING	Reviewed by: SST
	CAD file: 1393 / project no.: BI-RS-283	Drawing no.: Q304E

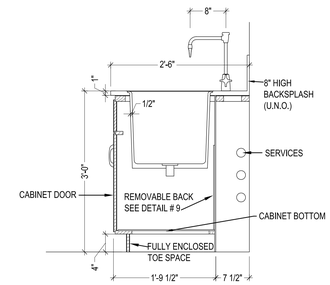
07/26/2011 10:02 PM

File Path

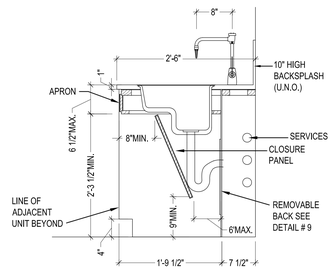
PLASTIC LAMINATE CASEWORK SYSTEM

SCALE: 1" = 1'-0"

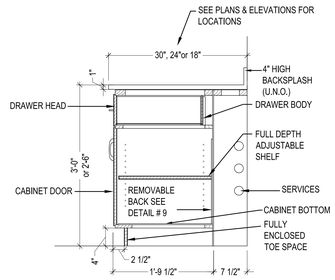
FLOOR - MOUNTED BASE CABINETS



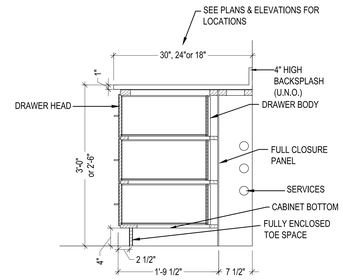
1 SECTION THROUGH SINK CABINET TYPE B01



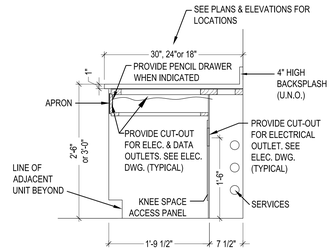
2 SECTION THROUGH ADA SINK CABINET TYPE R06



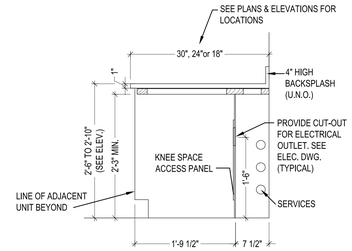
3 SECTION THROUGH DRAWER & DOOR BASE CABINET TYPICAL



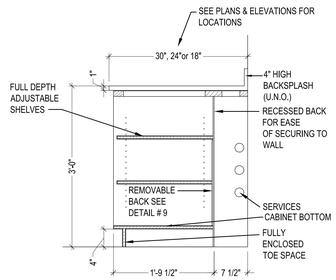
4 SECTION THROUGH DRAWER BASE CABINET TYPICAL



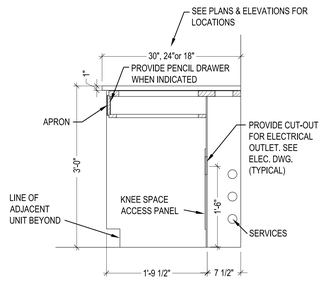
5 SECTION THROUGH KNEE SPACE WITH APRON TYPICAL



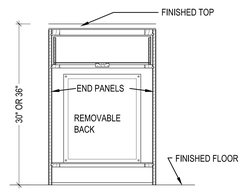
6 SECTION THROUGH ADA KNEE SPACE TYPICAL



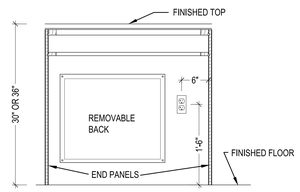
7 SECTION THROUGH BASE CABINET WITH OPEN SHELVES TYPE B07



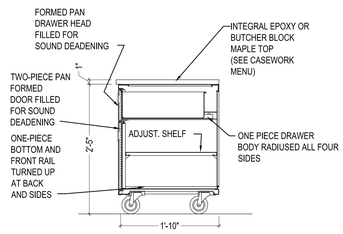
8 SECTION THROUGH KNEE SPACE WITH APRON AT MID ISLAND BENCH TYPE K01



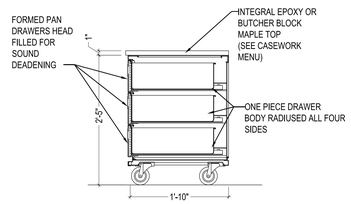
9 BASE CABINET TRANSVERSE SECTION



10 KNEE SPACE WITH APRON TRANSVERSE SECTION

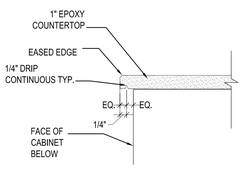


11 SECTION THROUGH DRAWER & DOOR CABINET ON CASTERS TYICAL D05 - D08



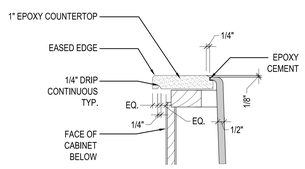
12 SECTION THROUGH DRAWERS CABINET ON CASTERS TIPYCAL D06 - D09

EPOXY COUNTER EDGE DETAIL



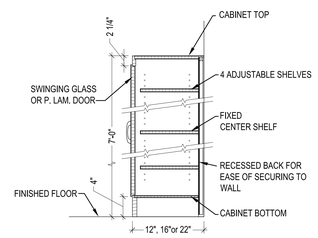
13 TYPICAL COUNTER EDGE DRIP DETAIL NOT TO SCALE

EPOXY SINK EDGE DETAIL

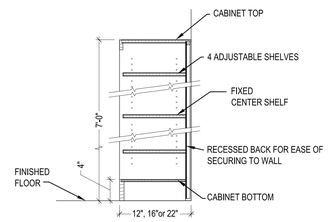


14 LIPPED (DROP-IN) SINK DETAIL NOT TO SCALE

FULL HEIGHT CABINETS

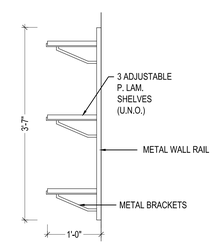


15 SECTION THROUGH FULL HEIGHT CABINET WITH SWINGING DOORS TYPE F01 & F03

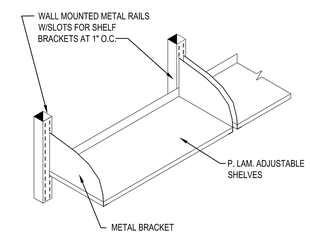


16 SECTION THROUGH FULL HEIGHT CABINET WITH OPEN SHELVES TYPE F05

WALL-MOUNTED SHELVES

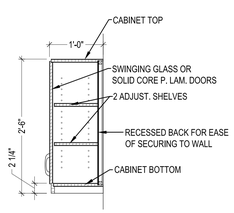


17 SECTION THROUGH ADJUSTABLE SHELVES ON WALL RAILS TYPE W04

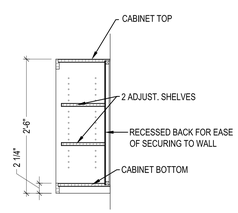


18 TYPICAL ADJUSTABLE SHELVES DETAIL NOT TO SCALE

WALL-MOUNTED CABINETS



19 SECTION THROUGH WALL CABINET WITH SWINGING DOORS TYPE W01

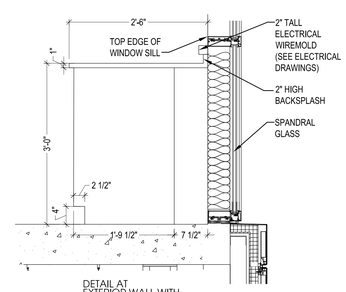


20 SECTION THROUGH WALL CABINET WITH OPEN SHELVES TYPE W05

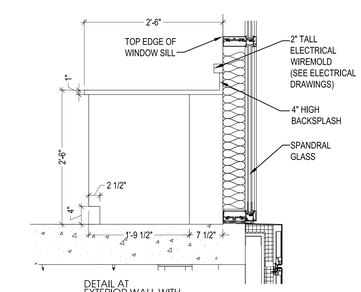
21 NOT USED

22 NOT USED

DETAILS OF CABINETS AT EXTERIOR WALL



23 DETAIL AT EXTERIOR WALL WITH STANDING HEIGHT BASE CABINET TYPICAL



24 DETAIL AT EXTERIOR WALL WITH SITTING HEIGHT BASE CABINET

Drawing title: PLASTIC LAMINATE CASEWORK DETAILS

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY: SST Planners, Laboratory Planners
1501 Wilson Blvd. Suite 507 Arlington, VA 22209 703.875.8787

SCSU NEW ACADEMIC LABORATORY BUILDING

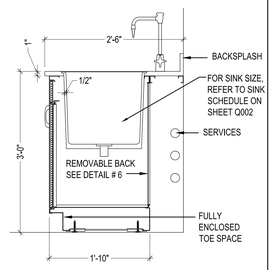
CAD file: 1393
project no.: BI-RS-283

sheet: 1 of 2
date: 11-21-2012
scale: AS NOTED
drawn by: SST
reviewed by: SST
drawing no.: Q401

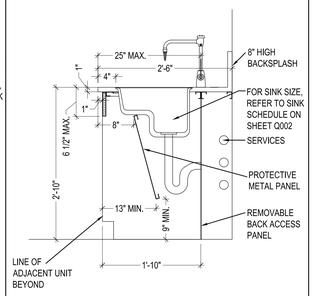
1– STEEL CASEWORK SYSTEMS

SCALE: 1" = 1'–0"

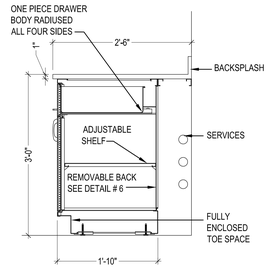
STAINLESS STEEL FLOOR – MOUNTED BASE CABINETS



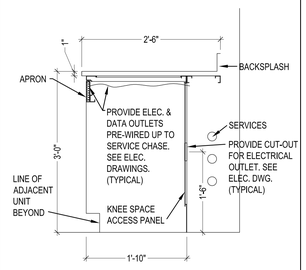
1 SECTION THROUGH OPEN SINK CABINET TYPE W01



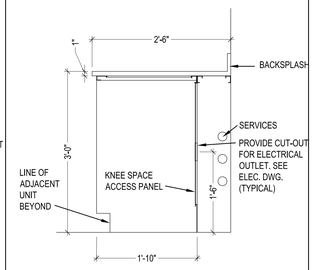
2 SECTION THROUGH ADA SINK WITH TIERED SINK TYPE R06



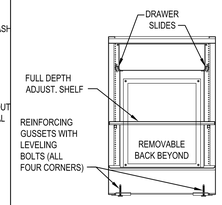
3 SECTION THROUGH BASE CABINET TYPICAL



4 SECTION THROUGH KNEE SPACE WITH APRON

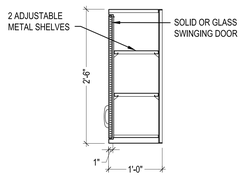


5 SECTION THROUGH KNEE SPACE WITHOUT APRON

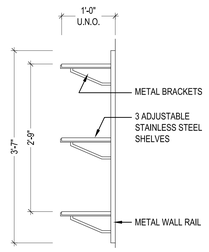


6 BASE CABINET TRANSVERSE SECTION

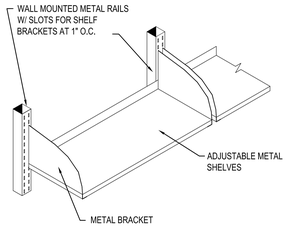
STAINLESS STEEL WALL – MOUNTED CABINETS & SHELVES



7 SECTION THROUGH WALL CABINET WITH SWINGING DOORS

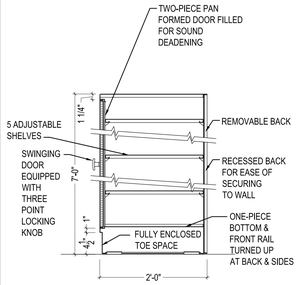


8 SECTION THROUGH ADJUSTABLE SHELVES ON WALL STANDARDS



9 TYPICAL ADJUSTABLE SHELVES DETAIL (W03 - W04) NOT TO SCALE

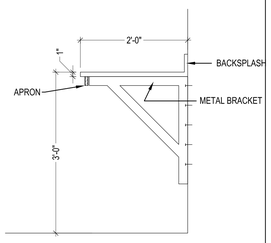
STAINLESS STEEL FULL HEIGHT CABINETS



10 SECTION THROUGH FULL HEIGHT CABINET WITH SWINGING DOORS TYPE F08

11 NOT USED

COUNTER W/ STEEL BRACE



12 SECTION THROUGH KNEE SPACE WITH APRON

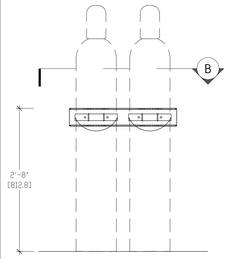
2– SPLASH GUARD

NOT TO SCALE

NOT USED

3– CYLINDER SUPPORT

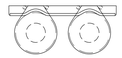
SCALE: 1" = 1'–0"



A FRONT VIEW

PROVIDE SINGLE, DOUBLE OR TRIPLE CYLINDER SUPPORT AS INDICATED ON PLANS. MOUNT SECURELY PER MANUFACTURER'S SPECIFICATIONS

CYLINDERS ARE N.I.C.

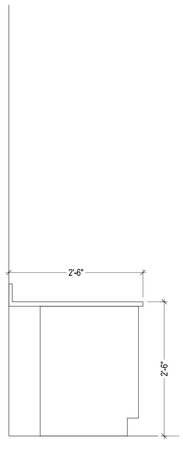


B PLAN VIEW SECTION

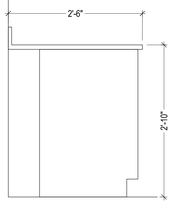
4– TYPICAL MOUNTING HEIGHT

NOTE: CONTRACTOR COORDINATE WALL BLOCKING FOR THE ANCHORING OF CASEWORK. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

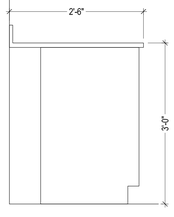
NOT TO SCALE



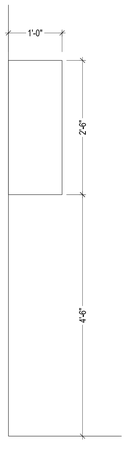
A SITTING HEIGHT BASE CABINET



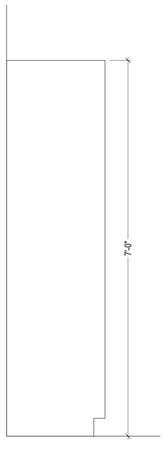
B ADA HEIGHT BASE CABINET



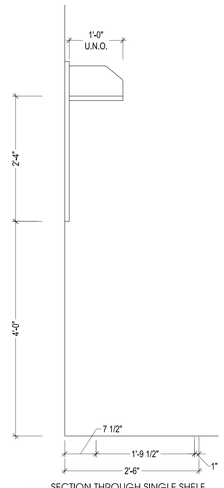
C STANDING HEIGHT BASE CABINET



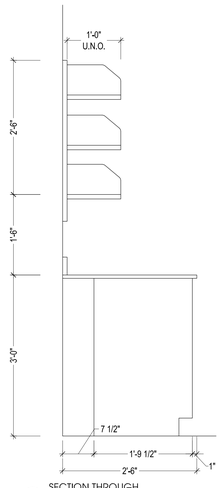
D 30" HIGH WALL CABINET



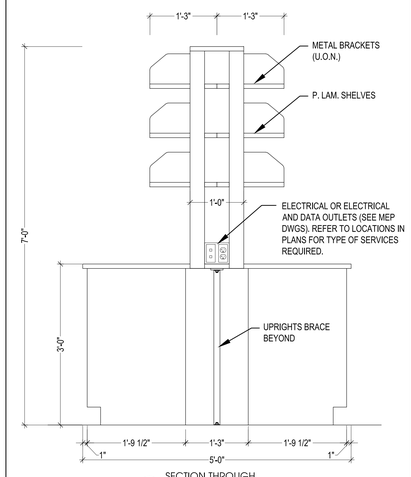
E FULL HEIGHT CABINET



F SECTION THROUGH SINGLE SHELF CASEWORK ALONG WALL



G SECTION THROUGH CASEWORK ALONG WALL

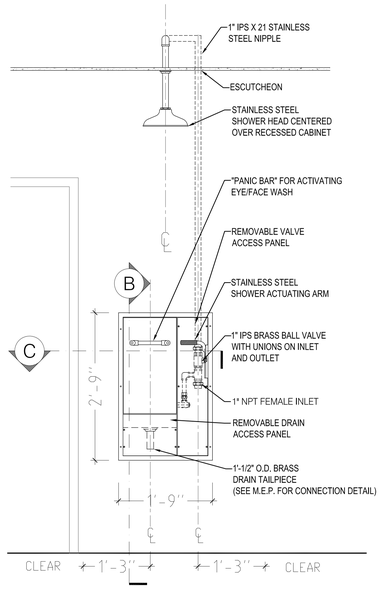


H SECTION THROUGH ISLAND BENCH

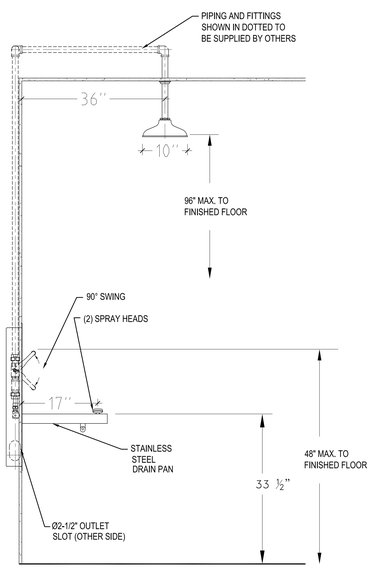
drawing title: METAL CASEWORK DETAILS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		sheet no. 1 of 2
REVISIONS: mark / date / description			date: 11-21-2012
11-21-2012 Bid Documents	drawing prepared by: SST Planners Laboratory Planners — 1501 Wilson Blvd. Suite 507 Arlington, VA 22209 703.875.8787		scale: AS NOTED
	project: SCSU NEW ACADEMIC LABORATORY BUILDING		drawn by: SST
			reviewed by: SST
	E.A. no. 1393	project no. BI-RS-283	drawing no. Q402

File Path: 01/06/2007 10:02:27 PM

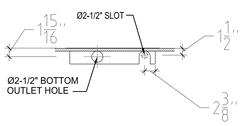
1– EMERGENCY SHOWER — SCALE: 1" = 1'–0"



A ELEVATION VIEW WITH CLOSED DRAIN PAN

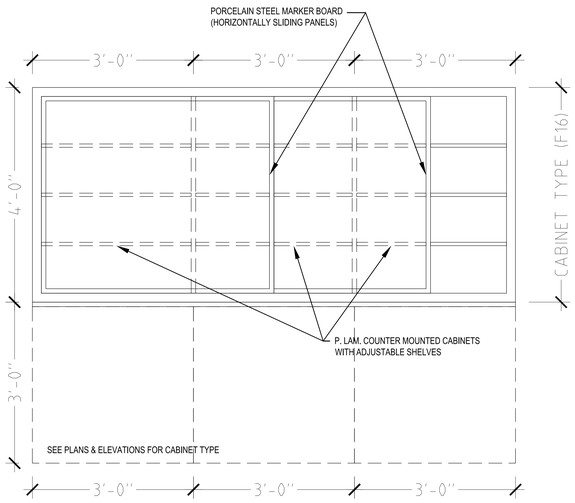


B SECTION VIEW WITH OPEN DRAIN PAN

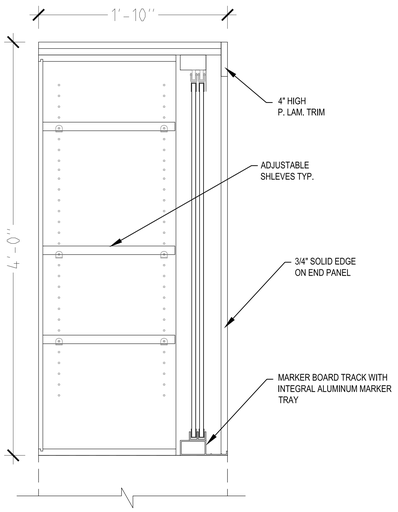


C TOP VIEW

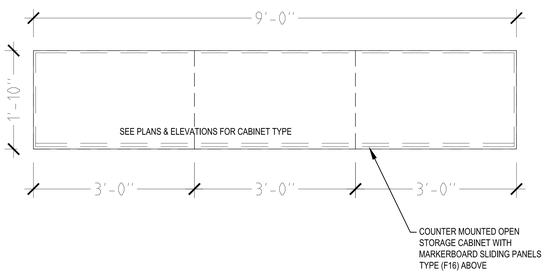
2– MARKER BOARD SLIDING PANELS, CABINET TYPE (F16) — SCALE: 1" = 1'–0"



A ELEVATION VIEW



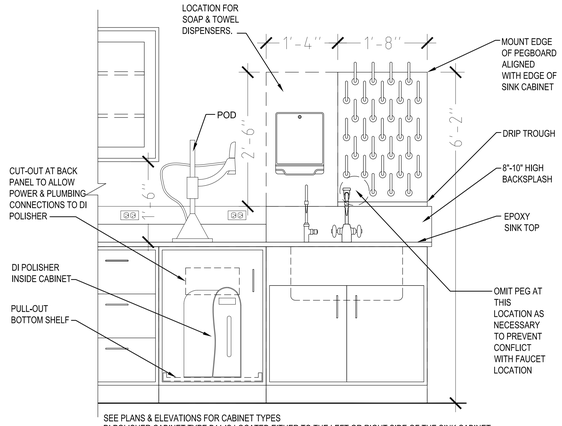
B ENLARGED SECTION VIEW NOT TO SCALE



C PLAN VIEW

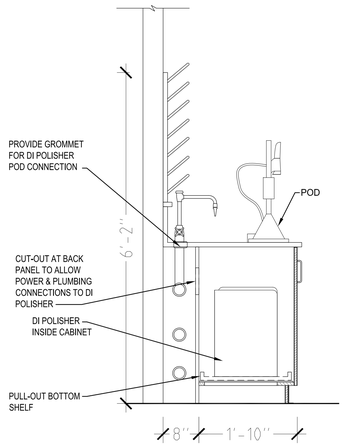
3– DI POLISHER W/ REMOTE DISPENSARY ARM — SCALE: 1" = 1'–0"

SOAP & PAPER TOWEL DISPENSERS ARE CONTRACTOR FURNISHED / CONTRACTOR INSTALLED AS SPECIFIED BY THE ARCHITECT. CONTRACTOR COORDINATE BLOCKING REQUIREMENTS AT THESE LOCATIONS.



SEE PLANS & ELEVATIONS FOR CABINET TYPES
DI POLISHER CABINET TYPE B11 IS LOCATED EITHER TO THE LEFT OR RIGHT SIDE OF THE SINK CABINET.
SEE PLANS AND ELEVATIONS FOR EXACT LOCATIONS.

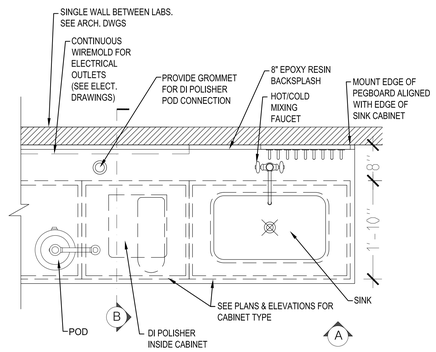
A ELEVATION VIEW



ALL PIPING AND CONNECTIONS BETWEEN DI POLISHER UNIT AND POD AND BETWEEN DI POLISHER UNIT AND BUILDING SYSTEMS SHALL BE CONCEALED INSIDE THE WALL OR UNDER BASE CABINET BELOW . INCLUDE MOUNTING DETAILS IN SHOPDRAWING SUBMITTALS.

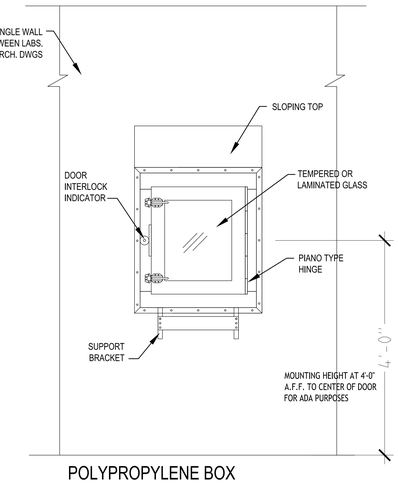
POINT OF DISPENSING (POD)

B SECTION VIEW



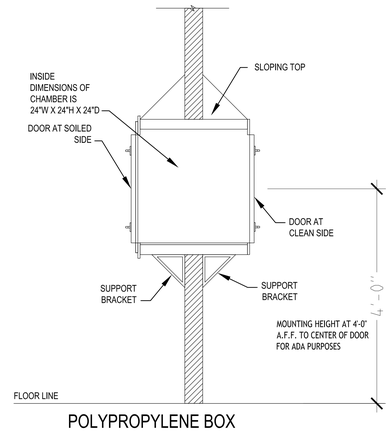
C PLAN VIEW

4– PASS-THROUGH BOX — SCALE: 1" = 1'–0"



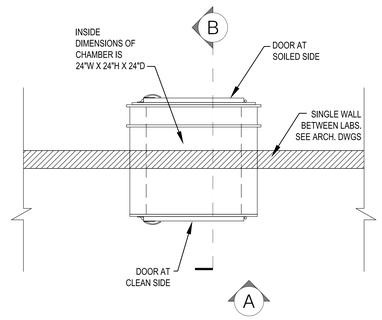
POLYPROPYLENE BOX

A ELEVATION VIEW (CLEAN SIDE)



POLYPROPYLENE BOX

B SECTION VIEW



POLYPROPYLENE BOX

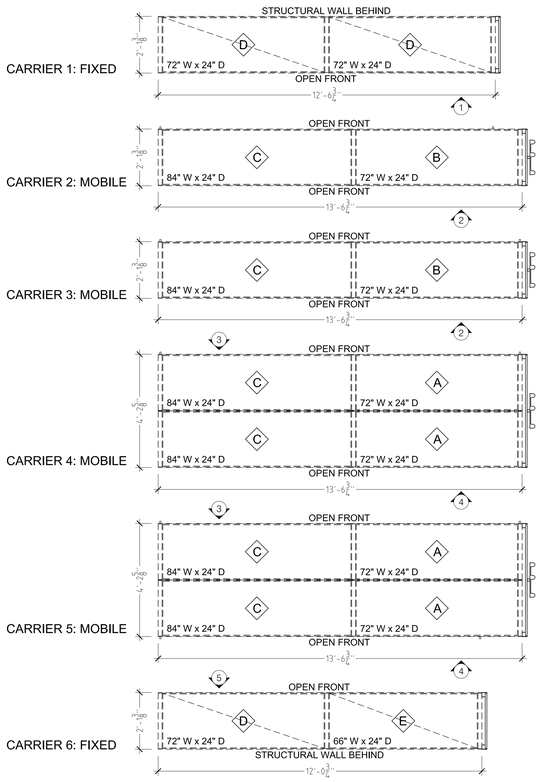
C PLAN VIEW

drawing title: MISCELLANEOUS DETAILS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		sheet name: 1 of 2
REVISIONS			date: 11-21-2012
mark / date / description: 11-21-2012 Bid Documents	DRAWING PREPARED BY: SST Planners, Laboratory Planners; 1501 Willson Blvd. Suite 507 Arlington, VA 22209 703.875.8787		scale: AS NOTED
	project: SCSU NEW ACADEMIC LABORATORY BUILDING		drawn by: SST
			reviewed by: SST
	CAD file: 1393	project no.: BI-RS-283	drawing no.: Q403

File Path:

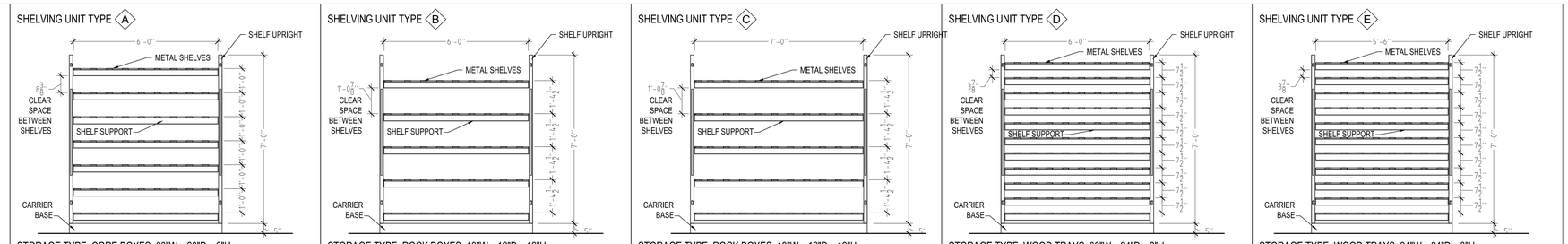
1– HIGH DENSITY STORAGE SHELVING SYSTEM

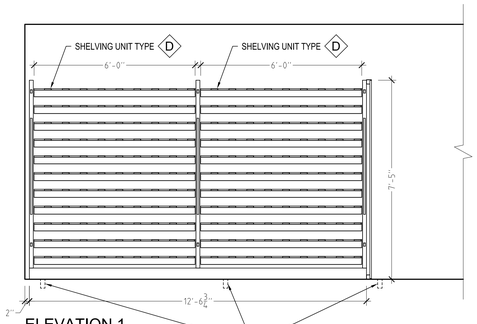
SCALE: 1/2" = 1'-0"



ALL DIMENSIONS ARE NOMINAL.
CONTRACTOR SHALL PROVIDE DETAILED SHOP DRAWINGS FOR REVIEW AND APPROVAL.

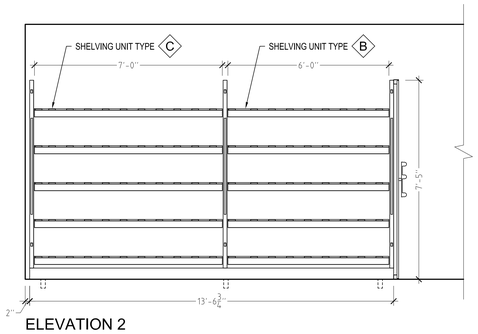
F DETAILED TOP VIEW



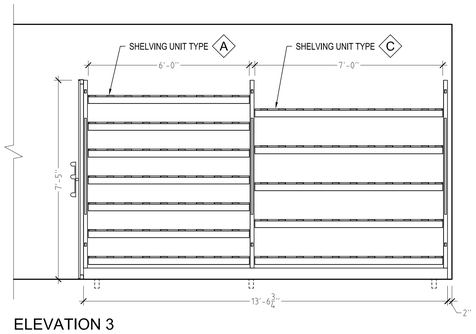


ELEVATION 1

RAILS RECESSED IN FLOOR. RAMP IS NOT REQUIRED. (TYPICAL ALL ELEVATIONS). CONTRACTOR COORDINATE RAIL RECESSED LOCATIONS WITH SYSTEM'S APPROVED SHOP DRAWINGS.



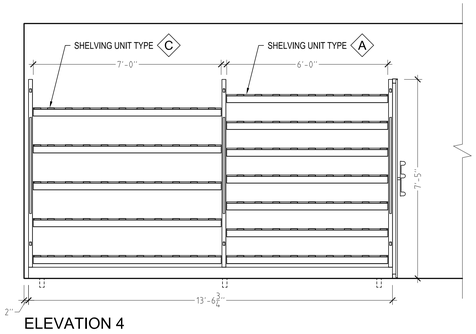
ELEVATION 2



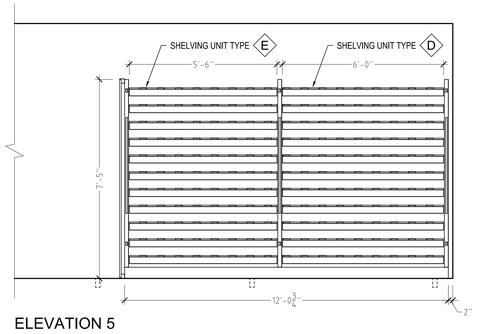
ELEVATION 3

MAXIMUM STORAGE CAPACITY PER SYSTEM:
CORE BOXES: 28*
ROCK BOXES: 230*
WOOD TRAYS (36"W): 66*
WOOD TRAYS (24"W): 22*

* ESTIMATED NUMBERS FOR INFORMATION ONLY.
CORE / ROCK BOXES AND WOOD TRAYS ARE (NIC).



ELEVATION 4

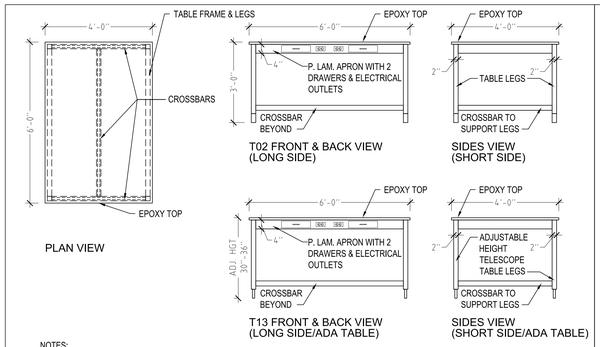


ELEVATION 5

G SYSTEM ELEVATIONS

2– PRE-WIRED TABLES

SCALE: 1/2" = 1'-0"



PLAN VIEW

T02 FRONT & BACK VIEW (LONG SIDE)

SIDES VIEW (SHORT SIDE)

T13 FRONT & BACK VIEW (LONG SIDE/ADA TABLE)

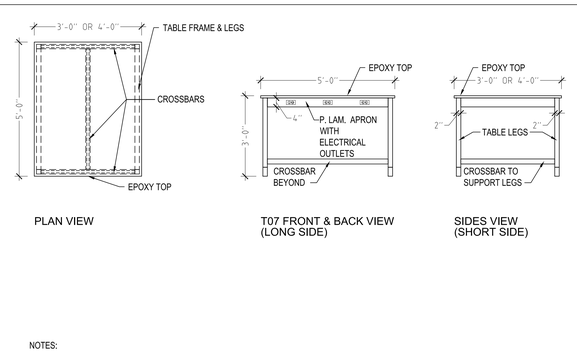
SIDES VIEW (SHORT SIDE/ADA TABLE)

NOTES:

PRE-WIRED TABLES. PROVIDE ELECTRICAL RECEPTACLES, RECEPTACLE BOX, AND FACE PLATE ON BOTH SIDES OF THE TABLES WITH ONE 8 FEET EXTENSION CORD WITH PLUG.

CROSSBARS TO SUPPORT LEGS SHALL BE PROVIDED ON THE SIDES OF TABLES ONLY. ONE SUPPORT CROSSBAR MAY BE PROVIDED IN THE CENTER TO CONNECT BOTH SIDE CROSSBARS IF NECESSARY.

A PRE-WIRED TABLES TYPE T02 & T13



PLAN VIEW

T07 FRONT & BACK VIEW (LONG SIDE)

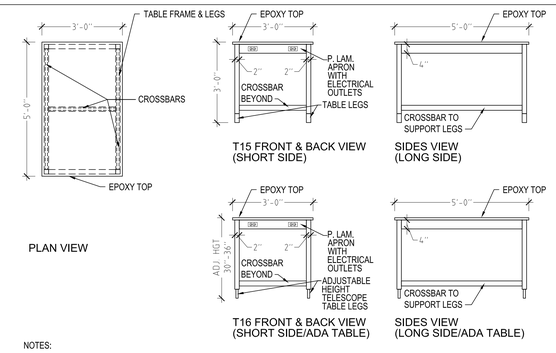
SIDES VIEW (SHORT SIDE)

NOTES:

PRE-WIRED TABLES. PROVIDE ELECTRICAL RECEPTACLES, RECEPTACLE BOX, AND FACE PLATE ON BOTH SIDES OF THE TABLES WITH ONE 8 FEET EXTENSION CORD WITH PLUG.

CROSSBARS TO SUPPORT LEGS SHALL BE PROVIDED ON THE SIDES OF TABLES ONLY. ONE SUPPORT CROSSBAR MAY BE PROVIDED IN THE CENTER TO CONNECT BOTH SIDE CROSSBARS IF NECESSARY.

B PRE-WIRED TABLES TYPE T07



PLAN VIEW

T15 FRONT & BACK VIEW (SHORT SIDE)

SIDES VIEW (LONG SIDE)

T16 FRONT & BACK VIEW (SHORT SIDE/ADA TABLE)

SIDES VIEW (LONG SIDE/ADA TABLE)

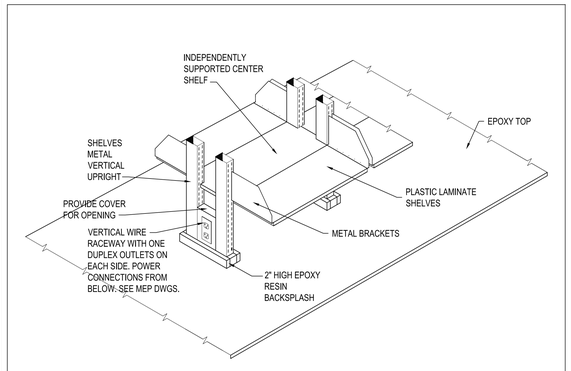
NOTES:

PRE-WIRED TABLES. PROVIDE ELECTRICAL RECEPTACLES, RECEPTACLE BOX, AND FACE PLATE ON BOTH SIDES OF THE TABLES WITH ONE 8 FEET EXTENSION CORD WITH PLUG.

CROSSBARS TO SUPPORT LEGS SHALL BE PROVIDED ON THE SIDES OF TABLES ONLY. ONE SUPPORT CROSSBAR MAY BE PROVIDED IN THE CENTER TO CONNECT BOTH SIDE CROSSBARS IF NECESSARY.

C PRE-WIRED TABLES TYPE T15 & T16

3– ISLAND SHELF DETAILS



A ADJUSTABLE SHELVES AT ISLAND BENCHES NOT TO SCALE

drawing title: MISCELLANEOUS DETAILS

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	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

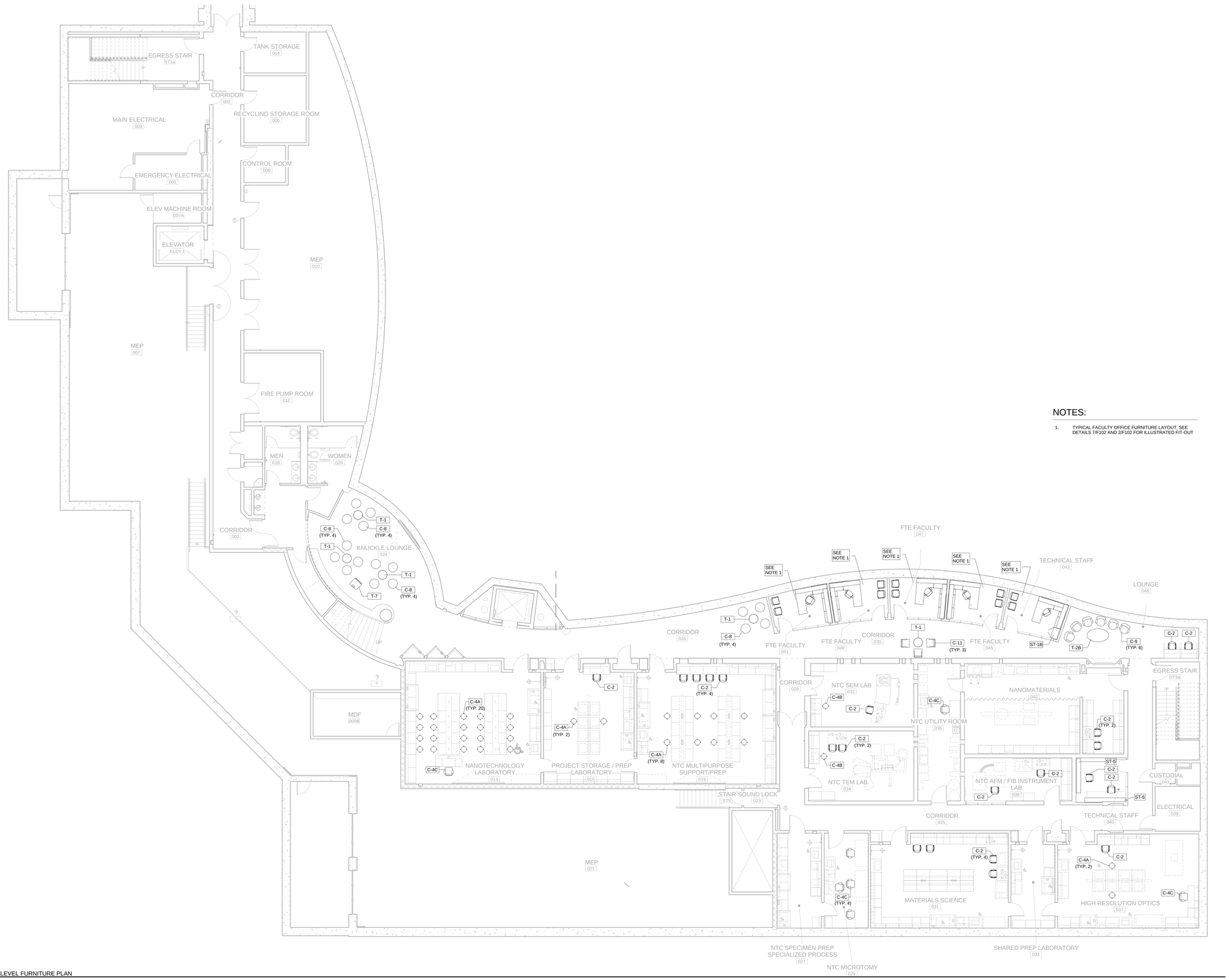
DRAWING PREPARED BY: SST Planners, Laboratory Planners — 1501 Wilson Blvd. Suite 507, Arlington, VA 22209, 703.875.8787

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD file: 1393 — project no.: BI-RS-283

sheet name: 1 of 2
date: 11-21-2012
scale: AS NOTED
drawn by: SST
reviewed by: SST
drawing no.: Q404

File Path:



1 LOWER LEVEL FURNITURE PLAN
1/8" = 1'-0"

NOTES:

1. TYPICAL FACULTY OFFICE FURNITURE LAYOUT. SEE DETAILS 7/F102 AND 2/F102 FOR ILLUSTRATED FIT-OUT

drawing title: LOWER LEVEL FURNITURE PLAN	STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS
REVISIONS	
mark / date / description	DRAWING PREPARED BY: Studio eM, Post Office Box 45, Hadlyme, Connecticut 06439
2012-11-21 BID DOCUMENTS	date: NOV. 21, 2012
	scale: 1/8" = 1'-0"
project: SCSU NEW ACADEMIC LABORATORY BUILDING	drawn by: MMW
	checked by: MMW
CAD file: 1392 / project no.: BI-RS-283	drawing no.: F101

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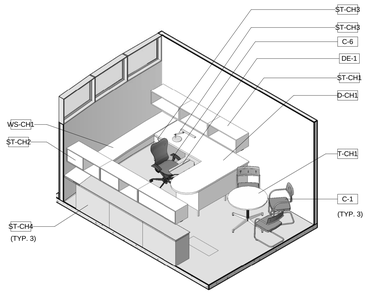
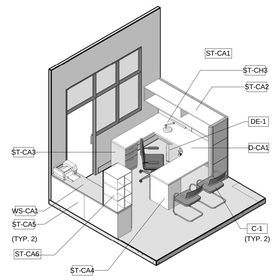
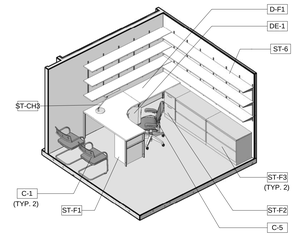


4 CHAIR OFFICE - TYP. DESK AND STORAGE REQ'S



3 CHAIR ADMINISTRATION - TYP. DESK AND STORAGE REQ'S.



2 FACULTY OFFICE - TYP. DESK AND STORAGE REQ'S.

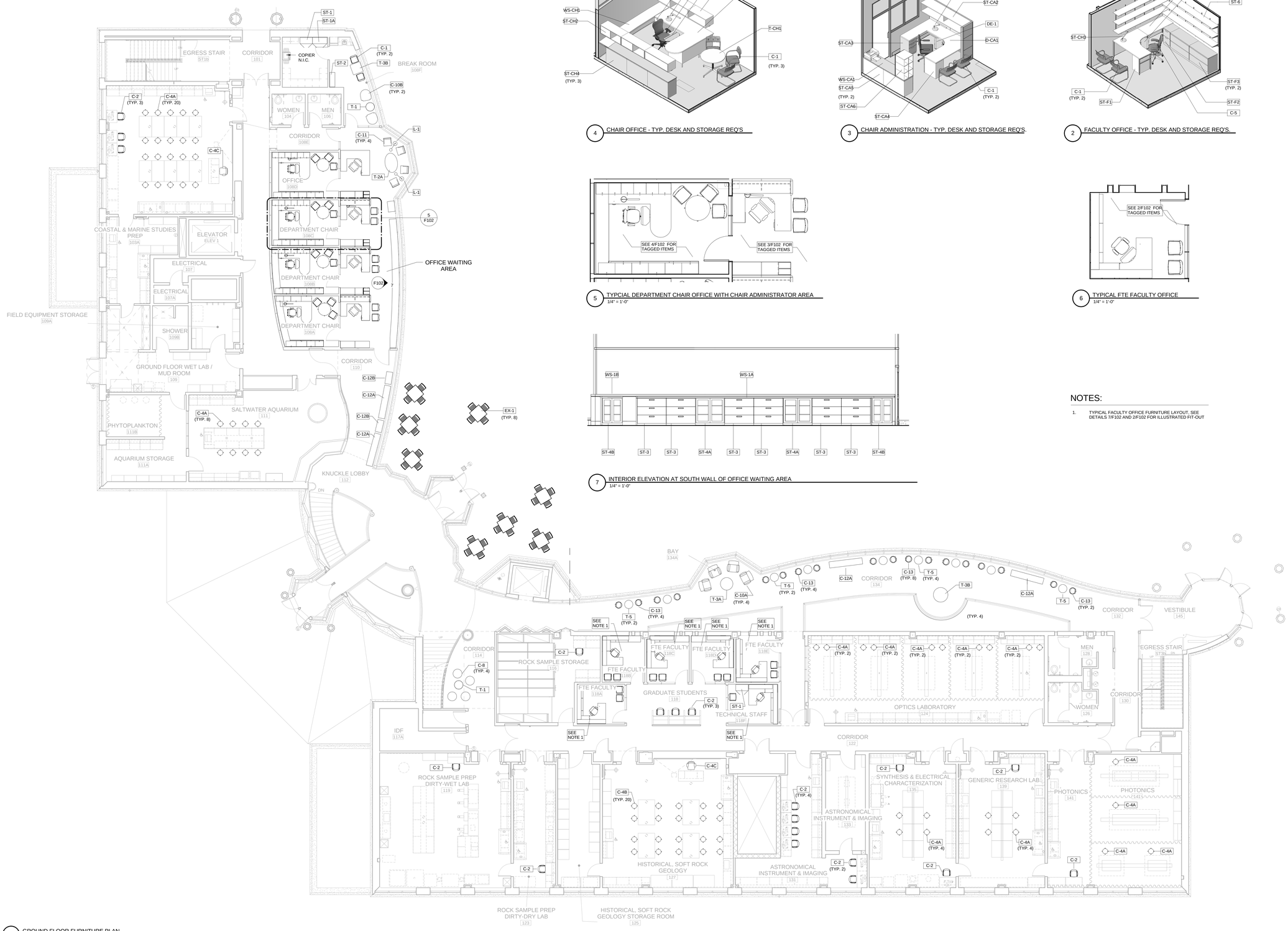
5 TYPCIAL DEPARTMENT CHAIR OFFICE WITH CHAIR ADMINISTRATOR AREA
1/4" = 1'-0"

6 TYPICAL FTE FACULTY OFFICE
1/4" = 1'-0"

7 INTERIOR ELEVATION AT SOUTH WALL OF OFFICE WAITING AREA
1/4" = 1'-0"

NOTES:

1. TYPICAL FACULTY OFFICE FURNITURE LAYOUT, SEE DETAILS 7/F102 AND 2/F102 FOR ILLUSTRATED FIT-OUT



1 GROUND FLOOR FURNITURE PLAN
1/8" = 1'-0"

drawing title		
GROUND FLOOR FURNITURE PLAN		
REVISIONS		
mark	date	description
	2012-11-21	BID DOCUMENTS

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

DRAWING PREPARED BY
Studio eM
Post Office Box 45
Hadlyme, Connecticut 06439

date: NOV. 21, 2012
scale: As indicated
project: SCSU NEW ACADEMIC LABORATORY BUILDING
drawn by: MMW
checked by: MMW
CAD file: 1392
project no.: BI-RS-283
drawing no.: F102

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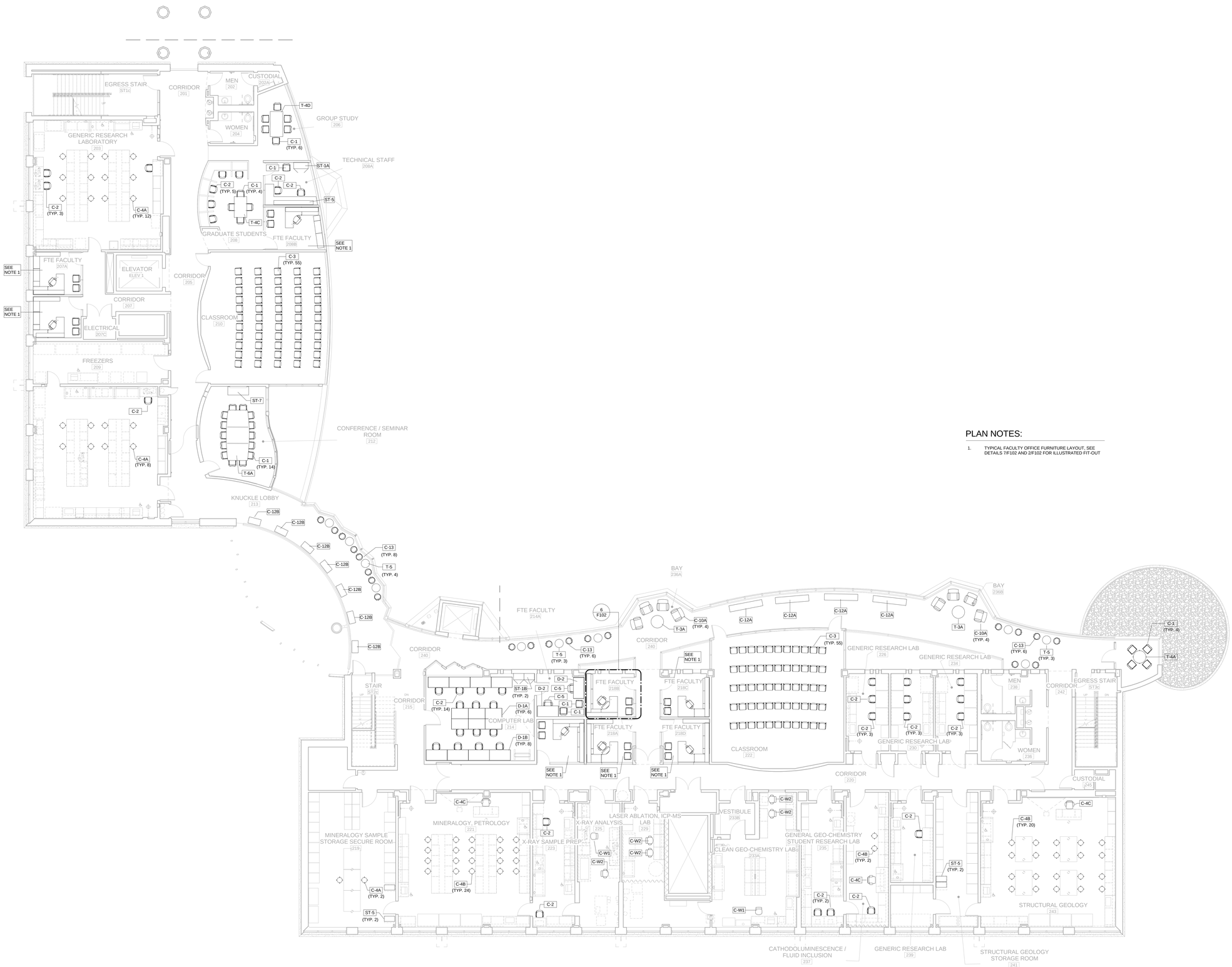

1 SECOND FLOOR FURNITURE PLAN
1/8" = 1'-0"

PLAN NOTES:

1. TYPICAL FACULTY OFFICE FURNITURE LAYOUT, SEE DETAILS 7/F102 AND 2/F102 FOR ILLUSTRATED FIT-OUT

drawing no.
SECOND FLOOR FURNITURE PLAN

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	2012-11-21	BID DOCUMENTS

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date: NOV. 21, 2012
scale: 1/8" = 1'-0"
drawn by: MMW
checked by: MMW

project:
SCSU NEW ACADEMIC
LABORATORY BUILDING

CAD no. 1392
project no. BI-RS-283
drawing no. F103

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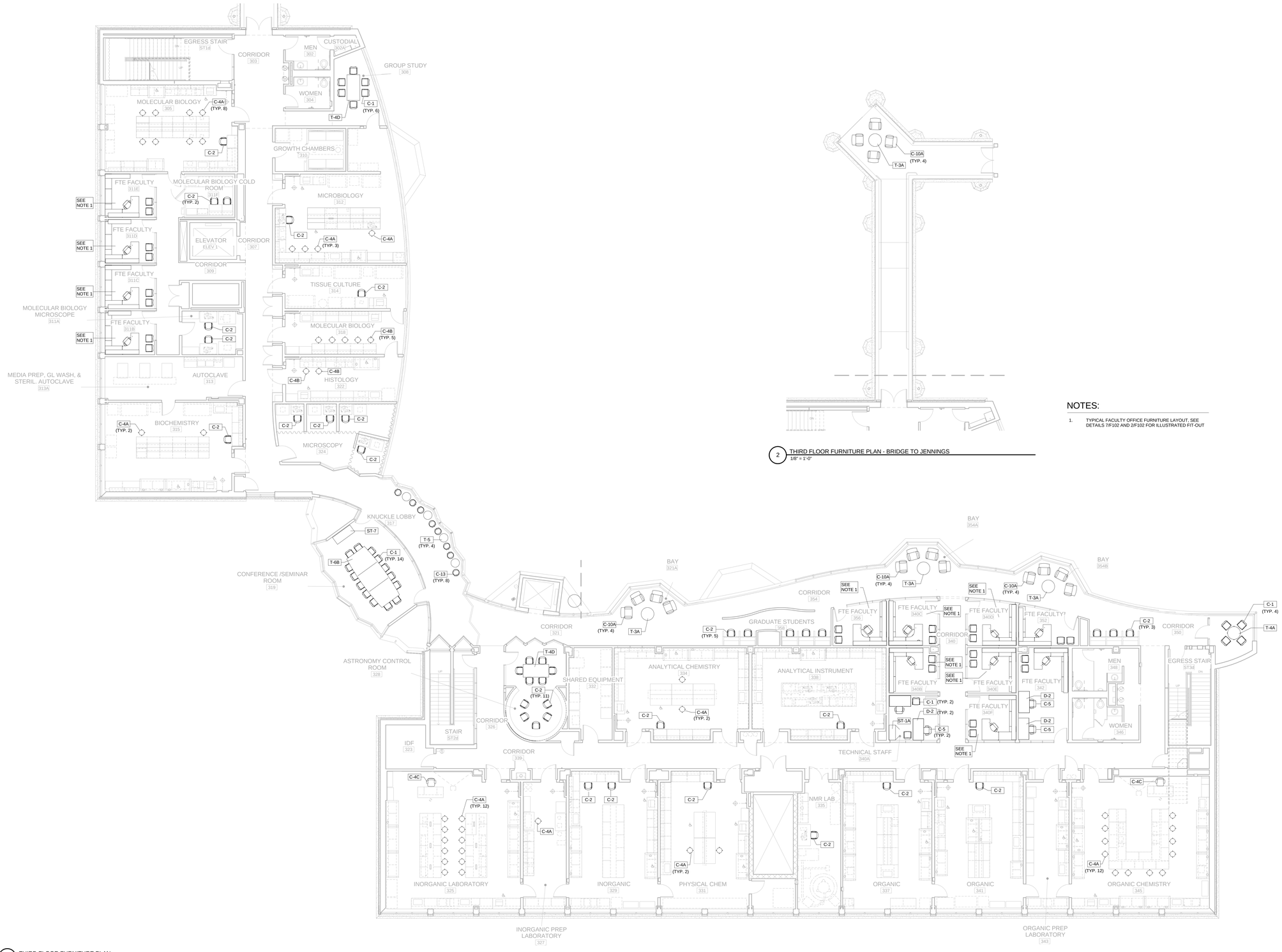

1 THIRD FLOOR FURNITURE PLAN
1/8" = 1'-0"

2 THIRD FLOOR FURNITURE PLAN - BRIDGE TO JENNINGS
1/8" = 1'-0"

NOTES:

1. TYPICAL FACULTY OFFICE FURNITURE LAYOUT. SEE DETAILS 7/F102 AND 2/F102 FOR ILLUSTRATED FIT-OUT

drawing title
THIRD FLOOR FURNITURE PLAN

REVISIONS

mark	date	description
	2012-11-21	BID DOCUMENTS

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Post Office Box 45
Hadlyme, Connecticut 06439

date: NOV. 21, 2012
scale: 1/8" = 1'-0"
drawn by: MMW
checked by: MMW

project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD file: 1392
project no.: BI-RS-283
drawing no.: F104

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FURNITURE SCHEDULE

	FURNITURE TAG	DESCRIPTION	MANUFACTURER	MODEL	DIMENSIONS	LAMINATE/FABRIC GRADE	SPECIAL REQUIREMENTS	QUANTITY	COMMENTS	LIST COST PER UNIT
CHAIR OFFICE - SEE 4/F102	D-CH1	CHAIR OFFICE DESK	STEELCASE	ELECTIVES ELEMENTS 6	30"W X 72"L BULLET / 24"W X 60"L STRAIGHT	MEDIUM CHERRY WOOD VENEER		4		
	WS-CH1	CHAIR OFFICE WORK SURFACE	STEELCASE	CUSTOM, SCRIBED TO WALL	19"W X 144"L X 1 1/4"H	MEDIUM CHERRY WOOD VENEER		4		
	T-CH1	CHAIR OFFICE TABLE W/PLATINUM METALLIC BASE	STEELCASE	ELECTIVES ELEMENTS 6	36" DIA	MEDIUM CHERRY WOOD VENEER		4		
	ST-CH1	SINGLE HIGH OVERHEAD STORAGE CABINET	STEELCASE	ELECTIVES ELEMENTS 6	15 3/4"D X 54"W X 15"H	MEDIUM CHERRY WOOD VENEER		8		
	ST-CH2	SINGLE HIGH OVERHEAD STORAGE CABINET	STEELCASE	ELECTIVES ELEMENTS 6	15 3/4"D X 72"W X 15"H	MEDIUM CHERRY WOOD VENEER		8		
	ST-CH3	PEDESTAL VERTICAL FILE	STEELCASE	ELECTIVES ELEMENTS 6	23 1/4"D X 15"W X 27 1/2"H	MEDIUM CHERRY WOOD VENEER		4		
	ST-CH4	LATERAL FILE	STEELCASE	ELECTIVES ELEMENTS 6	23 1/4"D X 42"W X 29"H	MEDIUM CHERRY WOOD VENEER		12		
CHAIR ADMIN OFFICE - SEE 3/F102	D-CA1	CHAIR ADMIN OFFICE DESK	STEELCASE	ANSWER MODULAR	23 1/2"W X 23 1/2"W X 35 1/2"L X 35 1/2" L CORNER / 23 1/2"W X 36"L / 23 1/2"W X 24"L	MEDIUM CHERRY WOOD VENEER		4		
	WS-CA1	CHAIR ADMIN OFFICE WORK SURFACE	STEELCASE	ANSWER MODULAR	23 1/2"W X 60"L	MEDIUM CHERRY WOOD VENEER		4		
	ST-CA1	BIN IN THE CASE OVERHEAD STORAGE CABINET	STEELCASE	UNIVERSAL FOR ANSWER MODULAR	15 3/4"D X 36"W X 15"H	MEDIUM CHERRY WOOD VENEER		4		
	ST-CA2	BIN IN THE CASE OVERHEAD STORAGE CABINET	STEELCASE	UNIVERSAL FOR ANSWER MODULAR	15 3/4"D X 42"W X 15"H	MEDIUM CHERRY WOOD VENEER		4		
	ST-CA3	PEDESTAL VERTICAL FILE	STEELCASE	UNIVERSAL FOR ANSWER MODULAR	18 3/8"D X 15"W X 27"H	MEDIUM CHERRY WOOD VENEER		4		
	ST-CA4	PEDESTAL VERTICAL FILE	STEELCASE	UNIVERSAL FOR ANSWER MODULAR	23 1/2"D X 15"W X 27"H	MEDIUM CHERRY WOOD VENEER		4		
	ST-CA5	LATERAL FILE	STEELCASE	UNIVERSAL FOR ANSWER MODULAR	23 1/4"D X 42"W X 29"H	MEDIUM CHERRY WOOD VENEER		8		
	ST-CA6	MAILBOX UNIT	STEELCASE	CUSTOM	19"D X 19"W X 36"H	MEDIUM CHERRY WOOD VENEER		3		
FACULTY OFFICE - SEE 2/F102	D-F1	FACULTY OFFICE DESK	STEELCASE	U-FREE DESKING	24"W X 24"W X 60"L X 48"L/ 24"W X 48"L	BASIC: MIST		31		
	WS-CA1	FACULTY OFFICE WORK SURFACE	STEELCASE	U-FREE DESKING	18 7/8"W X 108"L	BASIC: MIST		31		
	ST-F1	PEDESTAL VERTICAL FILE	STEELCASE	UNIVERSAL	23 1/2"D X 15"W X 27"H	BASIC: MIST		31		
	ST-F2	PEDESTAL VERTICAL FILE	STEELCASE	UNIVERSAL	18 3/8"D X 15"W X 27"H	BASIC: MIST		31		
	ST-F3	LATERAL FILE	STEELCASE	UNIVERSAL	18"W x 42"W X 28"H	BASIC: MIST		62	FACULTY OFFICE DIMENSIONS MUST BE VERIFIED IN FIELD. CERTAIN OFFICES MAY REQUIRE LESS WIDE UNITS.	
	ST-1	STORAGE CABINET, DOUBLE DOOR, LOCKABLE	STEELCASE	UNIVERSAL	83 1/2"H X 18"D X 36"W	BASIC: MIST		2		
	ST-1A	STORAGE CABINET, DOUBLE DOOR, LOCKABLE	STEELCASE	UNIVERSAL	83 1/2"H X 18"D X 42"W	BASIC: MIST		3		
	ST-1B	STORAGE CABINET, DOUBLE DOOR, LOCKABLE	STEELCASE	UNIVERSAL	83 1/2"H X 18"D X 30"W	BASIC: MIST		3		
	ST-2	BOOKCASE STORAGE	STEELCASE	UNIVERSAL	83 1/2"H X 18"D X 42"W	BASIC: MIST		1		
	ST-3	LATERAL FILE	STEELCASE	UNIVERSAL FOR ANSWER MODULAR	15 3/4"D X 42"W X 15"H	MEDIUM CHERRY WOOD VENEER		6		
	ST-4A	BOOKCASE STORAGE WITH GLASS DOORS, LOCKABLE	STEELCASE	ELECTIVES ELEMENTS 6	15 3/4"D X 42"W X 40"H	MEDIUM CHERRY WOOD VENEER		2		
	ST-4B	BOOKCASE STORAGE WITH GLASS DOORS, LOCKABLE	STEELCASE	ELECTIVES ELEMENTS 6	15 3/4"D X 30"W X 40"H	MEDIUM CHERRY WOOD VENEER		2		
	ST-5	5 DRAWER VERTICAL FILE	HON	250 SERIES H255B	29"D X 15"W X 60"H	BASIC		4		
	ST-6	SHELVING STANDARDS AND SHELVES			SEE DETAIL 5/F102			ALL FACULTY & TECHNICAL STAFF OFFICES: 33 TOTAL	THREE SHELVES HIGH, TYP., INSTALLED AT TWO WALLS ADJACENT TO FACULTY DESK. SEE 5/F102. SHELVING LAYOUTS VARY BECAUSE OF INTERIOR AND EXTERIOR GLASS AT WALL ADJACENT TO DESK. SEE FURNITURE PLANS FOR INDIVIDUAL OFFICE LAYOUT.	
	ST-7	FULL STORAGE CREDENZA	STEELCASE	*Estimated price - no mnfr standard*	60"W	MEDIUM CHERRY WOOD VENEER		2		
	WS-1A	OFFICE WAITING AREA WORK SURFACE	STEELCASE	CUSTOM, SCRIBED TO WALL	20"W X 30"L X 1 1/2" H	MEDIUM CHERRY WOOD VENEER		1		
	WS-1B	OFFICE WAITING AREA WORK SURFACE	STEELCASE	CUSTOM, SCRIBED TO WALL	20"W X 30"L X 1 1/2" H	MEDIUM CHERRY WOOD VENEER		1		
	D-1A	COMPUTER LAB TRAINING TABLES	STEELCASE/COALESSE	RUNNER TABLE	60" L x 24" W x 28 1/2 " H	GRADE 2		8		
	D-1B	COMPUTER LAB TRAINING TABLES	STEELCASE/COALESSE	RUNNER TABLE	48" L x 24" W x 28 1/2 " H	GRADE 2		6		
	D-2	TECH OFFICE DESK	STEELCASE/COALESSE	RUNNER TABLE	60" L x 24" W x 28 1/2 " H	GRADE 2		6		
	T-1	LOW CASUAL TABLE	STEELCASE/COALESSE	CAMPFIRE PAPER TABLE, OMIT PAPER	25" DIA X 23 1/2"H	HIGH PRESSURE LAMINATE BASE,	MUST MEET STATE OF CALIFORNIA TECHNICAL BULLETIN 133	7		
	T-2 A	OCCASIONAL - OVAL		*Estimated price - no mnfr standard*	36" W X 48"L	MEDIUM CHERRY WOOD VENEER		1		
	T-2B	OCCASIONAL - OVAL		*Estimated price - no mnfr standard*	36" W X 48"L	HIGH PRESSURE LAMINATE	MUST MEET STATE OF CALIFORNIA TECHNICAL BULLETIN 133	1		
	T-3A	OCASSIONAL - CIRCLE	STEELCASE/COALESSE	ENEA OCCASIONAL	36" DIA X 18"H		MUST MEET STATE OF CALIFORNIA TECHNICAL BULLETIN 133	7		
	T-3B	OCASSIONAL - CIRCLE	STEELCASE/COALESSE	CIRCA FREESTANDING TABLE	42" DIA X 15 3/4"H		MUST MEET STATE OF CALIFORNIA TECHNICAL BULLETIN 133	2		
	T-4A	MEETING TABLE - CIRCLE	STEELCASE	SW_1 FREESTANDING TABLE	36" DIA X 28 1/2"H	GRADE 2 LAMINATE		5		
	T-4B	MEETING TABLE - SQUARE	STEELCASE	SW_1 FREESTANDING TABLE	32" D X 32"W X 28 1/2"H	GRADE 2 LAMINATE		1		
	T-4C	MEETING TABLE - RECTANGULAR	STEELCASE	SW_1 FREESTANDING TABLE	36" D X 60"W X 28 1/2"H	GRADE 2 LAMINATE		1		
	T-4D	MEETING TABLE - RECTANGULAR	STEELCASE	SW_1 FREESTANDING TABLE	36" D X 72"W X 28 1/2"H	GRADE 2 LAMINATE		3		
	T-5	HIGH BOY CAFÉ	STEELCASE	ENEA CAFÉ TABLE BAR HEIGHT	24" DIA X 36"H		MUST MEET STATE OF CALIFORNIA TECHNICAL BULLETIN 133	23		
	T-6A	CONFERENCE L	STEELCASE	CONVENE BOAT SHAPE WITH ELLIPSE BASE	56"D X 144"W			1		
	T-6B	CONFERENCE XL	STEELCASE	CONVENE BOAT SHAPE WITH ELLIPSE BASE	72"D X 168"W			1		
	T-7	MOVEABLE LECTURN	STEELCASE/NURTURE	POCKET CART			MUST MEET STATE OF CALIFORNIA TECHNICAL BULLETIN 133	1		
	C-1	SIDE CHAIR	KNOLL	MOMENT				138		
	C-2	LAB CHAIR	STEELCASE	UNO TASK, HAMMOCK, MID-BACK				119		
	C-3	CLASSROOM CHAIR	STEELCASE	DOMINO, STACKER, ARMLESS				110		
	C-4A	LAB STOOL - HIGH	STEELCASE/NURTURE	VERGE WITH GLIDES	18" DIA X 31"H			146		
	C-4B	LAB STOOL - LOW	STEELCASE/NURTURE	VERGE WITH GLIDES	18" DIA X 21"H			72		
	C-4C	TEACHING STATION CHAIR	STEELCASE/TURNSTONE	CREW		PRICE GROUP 9		14		
	C-5	TASK - FACULTY OFFICE	STEELCASE	AMIA, UPHOLSETERED		PRICE GROUP 9		37		
	C-6	TASK - DEPARTMENT CHAIR OFFICE	STEELCASE	LEAP, MESH		PRICE GROUP 9		4		
	C-7	TASK - CHAIR ADMINISTRATOR OFFICE	STEELCASE	REPLY, MESH		PRICE GROUP 9		4		
	C-8	LOW CAUSAL SEAT	STEELCASE/COALESSE	CAMPFIRE ALIGHT ROUND		PRICE GROUP 9; MEETS CAL TB 133	MUST MEET STATE OF CALIFORNIA TECHNICAL BULLETIN 133	20		
	C-9	LOUNGER WITH TABLET ARM	STEELCASE	MIGRATION		PRICE GROUP 9	MUST MEET STATE OF CALIFORNIA TECHNICAL BULLETIN 133	6		
	C-10A	LOUNGE	STEELCASE/TURNSTONE	JENNY LOUNGE WITH ARMS		PRICE GROUP 9; MEETS CAL TB 133	MUST MEET STATE OF CALIFORNIA TECHNICAL BULLETIN 133	28		
	C-10B	LOUNGE SMALL	STEELCASE	JENNY ROUND		PRICE GROUP 9		5		
	C-11	LOUNGE	STEELCASE	ANDOO, CLOSED ARM		PRICE GROUP 9	MUST MEET STATE OF CALIFORNIA TECHNICAL BULLETIN 133	7		
	C-12A	BENCH LONG	STEELCASE/COALESSE	RIPPLE			MUST MEET STATE OF CALIFORNIA TECHNICAL BULLETIN 133	4		
	C-12B	BENCH SHORT	STEELCASE/COALESSE	RIPPLE			MUST MEET STATE OF CALIFORNIA TECHNICAL BULLETIN 133	7		
	C-13	HIGHBOY CAFÉ	STEELCASE/COALESSE	ENEA CAFÉ STOOL WITH BACK		POLYPROPYLENE SEAT; MEETS CAL TB 133	MUST MEET STATE OF CALIFORNIA TECHNICAL BULLETIN 133	46		
	C-W1	LAB CHAIR - NO METAL COMPONENTS			ADJUSTABLE HEIGHT			2.00		
	C-W2	LAB CHAIR - NO METAL COMPONENTS						5.00		
	EX-1	OUTDOOR TABLE AND CHAIRS	STEELCASE/COALESSE	EMU TABLE AND FOUR CHAIRS, NO CUSHION				8.00		
	DE-1	KEYBOARD TRAY	STEELCASE	CURRENCY	7" ARM W/26" TRACK			40.00		
	L-1	FLOOR LAMP						2.00		
	L-2	TASK LIGHT	STEELCASE	PERSONAL UNDERLINE TASK				45		

drawing title
FURNITURE SCHEDULE

REVISIONS

mark	date	description
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STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

DRAWING PREPARED BY
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project
SCSU NEW ACADEMIC LABORATORY BUILDING

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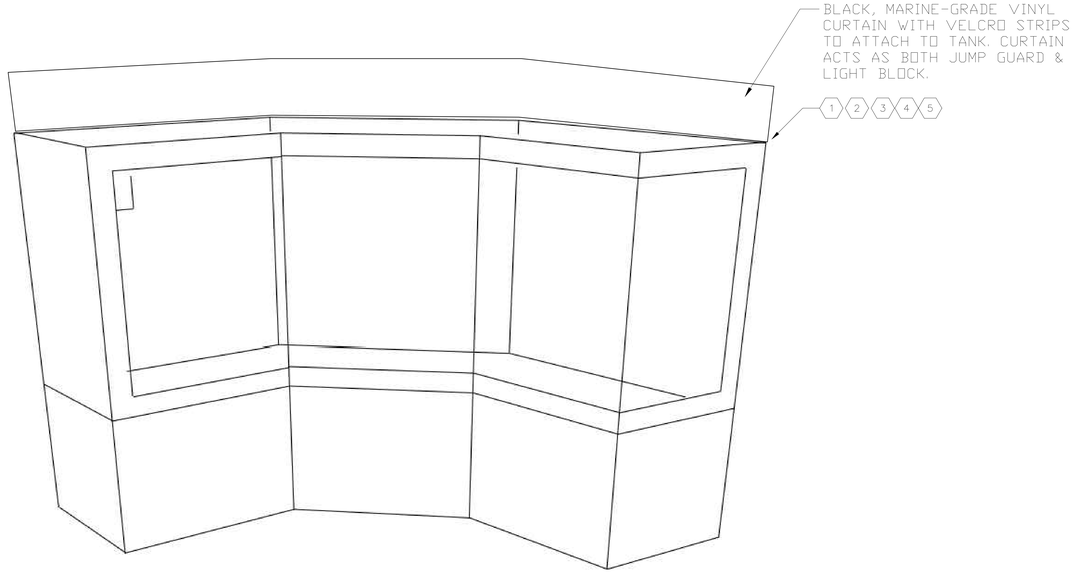
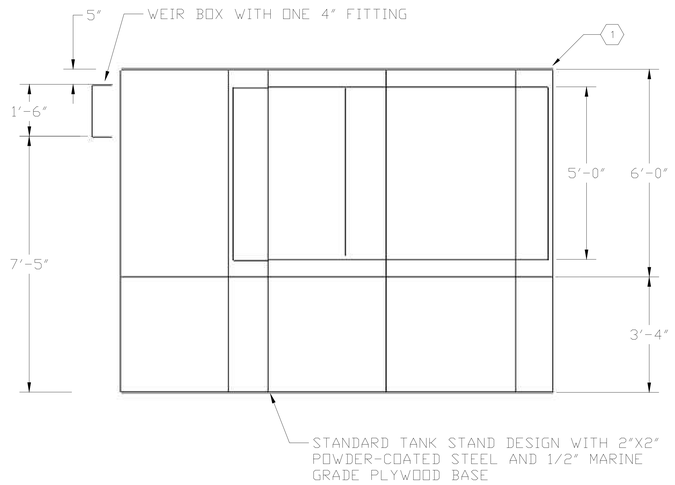
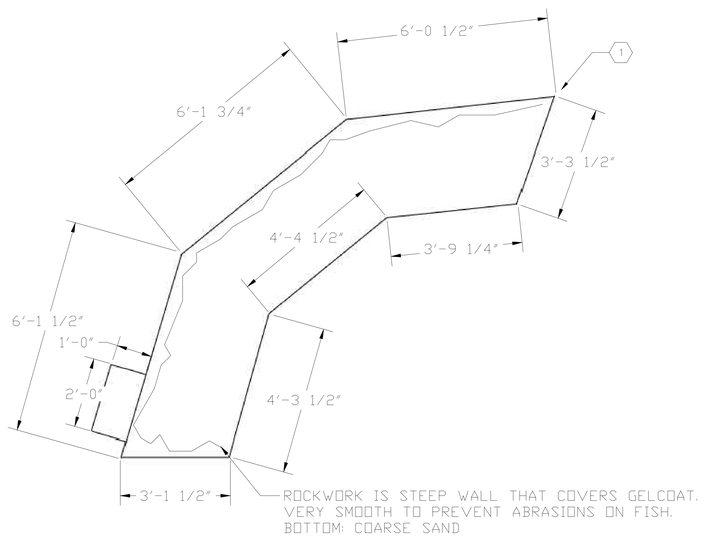
drawing: F105



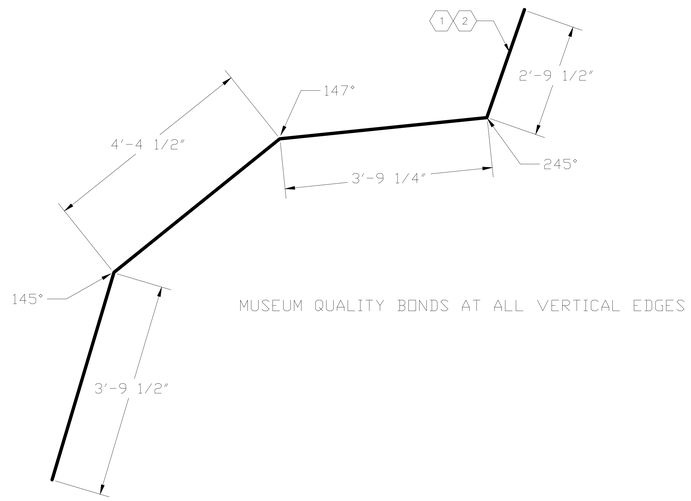
1 OCEAN AQUARIUM - ISOMETRIC
SCALE: NTS



3 OCEAN AQUARIUM - SIDE VIEW
SCALE: NTS

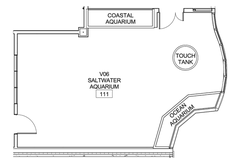


2 OCEAN AQUARIUM - TOP VIEW
SCALE: NTS



4 OCEAN AQUARIUM - WINDOW DETAIL
SCALE: NTS

KEY PLAN



KEYED NOTES

1. ALL DIMENSIONS TO BE CONFIRMED BY ARCHITECT.
2. WINDOW THICKNESS TBD BY TANK MANUFACTURER.
3. VOLUME: APPROXIMATELY 2000 GALLONS. STRUCTURAL REQUIREMENTS TBD BY TANK STAND MANUFACTURER.
4. EXHIBIT LIGHTING PROVIDED BY (3) 4' WET-LOCATION FLORESCENT FIXTURES AND (6) PAR-36 FIXTURES (LOCATION TBD)
5. ENGINEERING FOR TANK STAND AND TANK TO BE DONE BY LSS INSTALLER

mark	date	description
	11-21-2012	BID DOCUMENTS

project title: OCEAN AQUARIUM

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY:
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. ----
project no. BI-RS-283

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date 11-21-2012
scale As indicated
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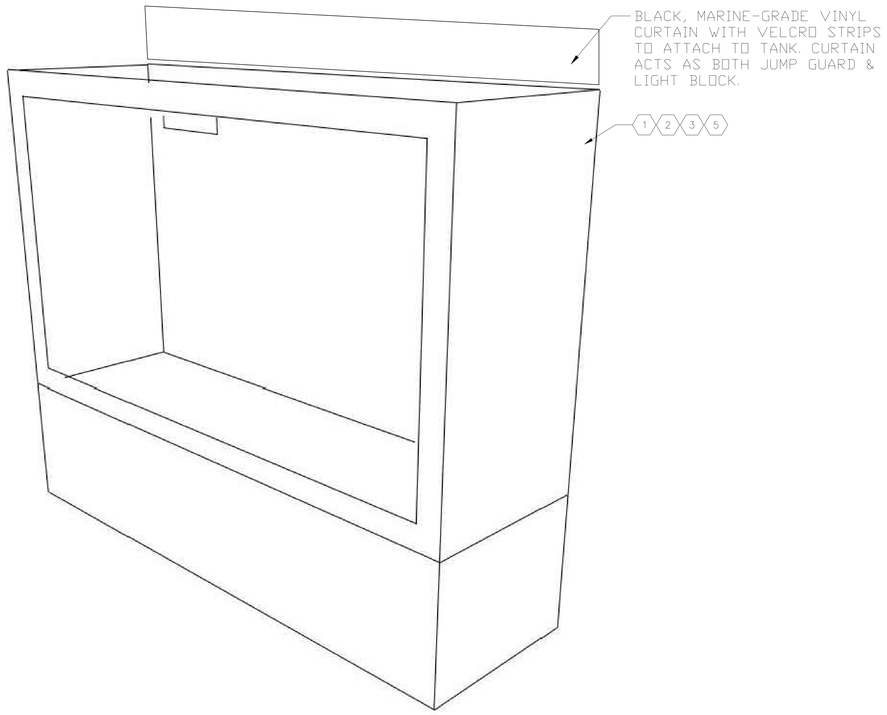

1 COASTAL AQUARIUM - ISOMETRIC
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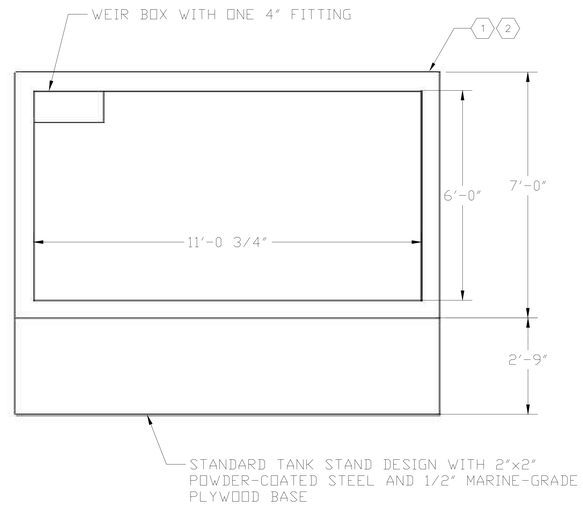
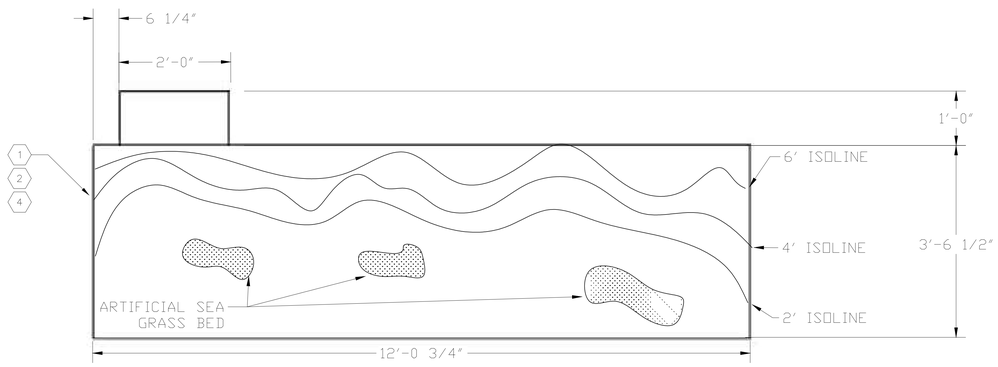


3 COASTAL AQUARIUM - SIDE VIEW
SCALE: NTS

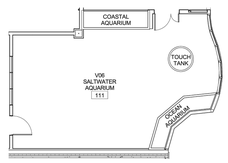


2 COASTAL AQUARIUM - TOP VIEW
SCALE: NTS

TOUCH TANK:	ROUND TANK WITH 5° SLOPING BOTTOM TO 2" DRAIN
OUTSIDE DIAMETER:	4'-8"
SIDE HEIGHT:	2'-0"
CENTER HEIGHT:	2'-2"
VOLUME:	210 GALLONS
OVERALL HEIGHT (WITH LEGS):	2'-8"

4 TOUCH TANK NOTES
SCALE: NTS

KEY PLAN



KEYED NOTES

1. ALL DIMENSIONS TO BE CONFIRMED BY ARCHITECT
2. VOLUME: APPROXIMATELY 2,200 GALLONS
3. EXHIBIT LIGHTING PROVIDED BY (2) 4' WET LOCATION FLORESCENT FIXTURES AND (4) PAR-36 FIXTURES. (LOCATION TBD)
4. ALL GELCOAT TO BE COVERED WITH ROCK WORK. ROCK TYPE: GRANITE. BOTTOM: COARSE SAND.
5. ENGINEERING FOR TANK STAND AND TANK TO BE DONE BY LSS INSTALLER.

drawing title: COASTAL AQUARIUM AND TOUCH TANK

REVISIONS

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STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY:
Centerbrook Architects and Planners, LLP
67 Main Street
Post Office Box 955
Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

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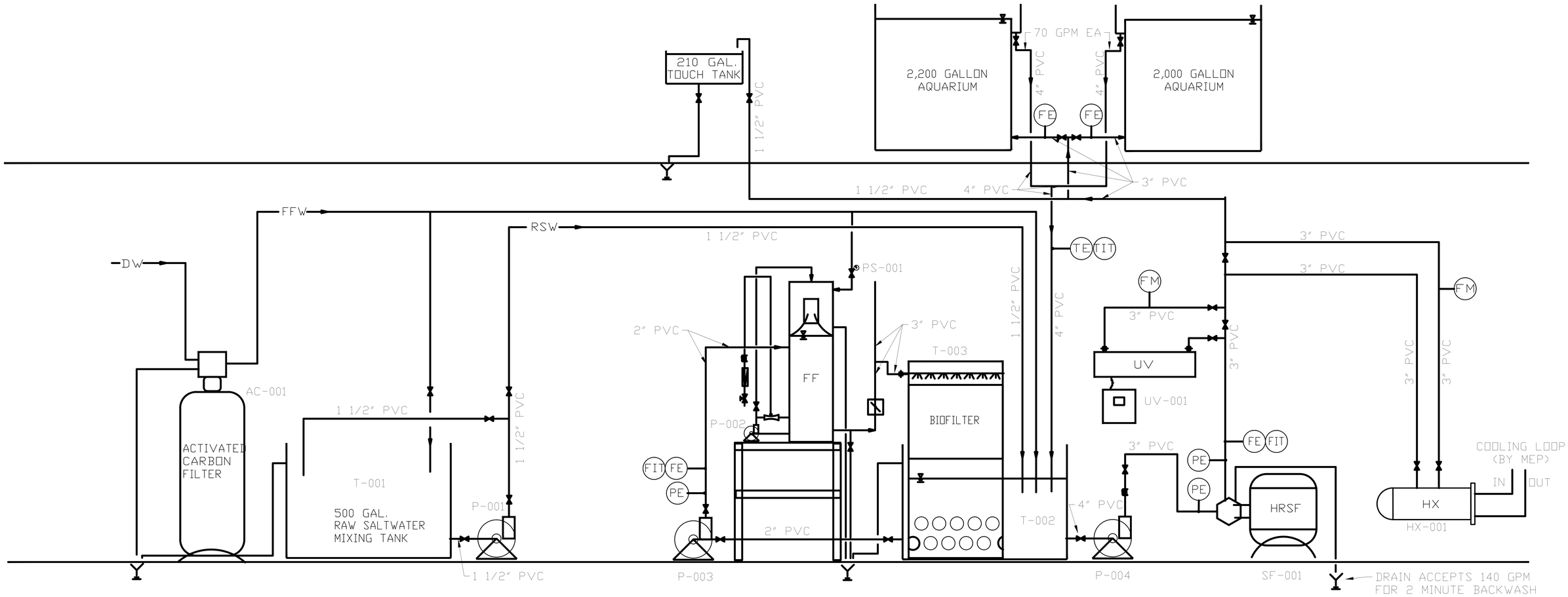
approved by: TENJI/ES
drawing no.: AQ002



1 PROCESS FLOW DIAGRAM
SCALE: NTS

ITEM	TAG	SPECIFICATION	WATT	HP	VAC	PHASE	AMP
Raw saltwater mixing tank	T-001	Norwesco 500 Gallon Conical Bottom Bulk Storage Tank w/ poly stand (48" D, 85" H)	-	N/A	N/A	N/A	N/A
Raw tank mixing pump	P-001	SeaFlow pump (Lifegard)	-	0.5	208	single	6
Reservoir	T-002	Red Ewald (850 gallons, 84" dia, 36" H)	-	N/A	N/A	N/A	N/A
Protein skimmer	PS-001	RK275PE	-	N/A	N/A	N/A	N/A
PS venturi pump	P-002	Baldor (comes with PS)	-	2	220	single	4.45
Protein skimmer pump	P-003	SeaFlow pump (Lifegard)	-	0.5	208	single	6
Biofilter (with media)	T-003	Solar Components (model11035)	-	N/A	N/A	N/A	N/A
UV	UV-001	Emperor Aquatics (0250300)	300		230	single	0.85
Filtration pump	P-004	SeaFlow pump (Lifegard)	-	3	230	single	15
Sand Filter	SF-001	Pentair TR140	-	N/A	N/A	N/A	N/A
HX	HX-001	Aqualogic HX-60-W	-		120	single	2
Activated carbon filter	AC-001	Culligan (size TBD by water quality of domestic source)	-	N/A	120	single	5
Service outlets		Quad	-	N/A	120	single	20
Ancillary LSS		Quad	-	N/A	120	single	20

2 MECHANICAL EQUIPMENT SCHEDULE
SCALE: NTS

3 CONTROLS
SCALE: NTS

A P-001 SHUT OFF ON LOW LEVEL IN T-001

B P-003 AND P-004 SHUT OFF ON LOW LEVEL IN T-002

KEYED NOTES

LSS INSTALLER TO VERIFY ALL LSS EQUIPMENT AS SUITABLE FOR APPLICATION OF LSS TO TARGET SPECIES.

drawing title: PROCESS FLOW DIAGRAM

REVISIONS

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	11-21-2012	BID DOCUMENTS

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Centerbrook Architects and Planners, LLP
67 Main Street
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Centerbrook, Connecticut 06409-0955

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD file: ----
project no.: BI-RS-283

sheet no. of no.: 1 of 2
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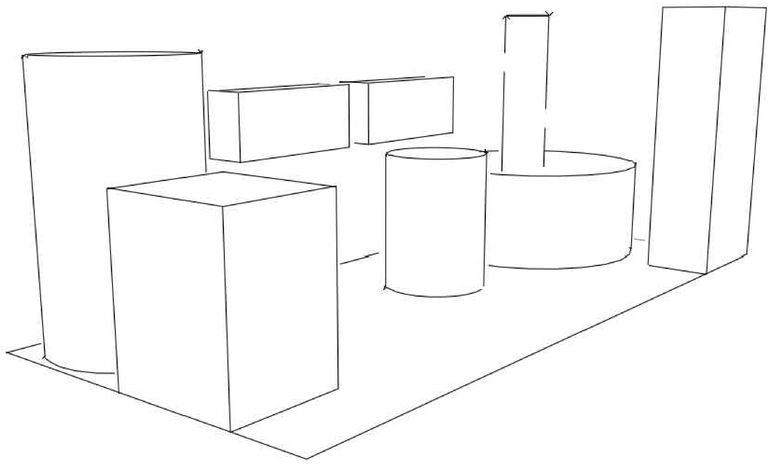
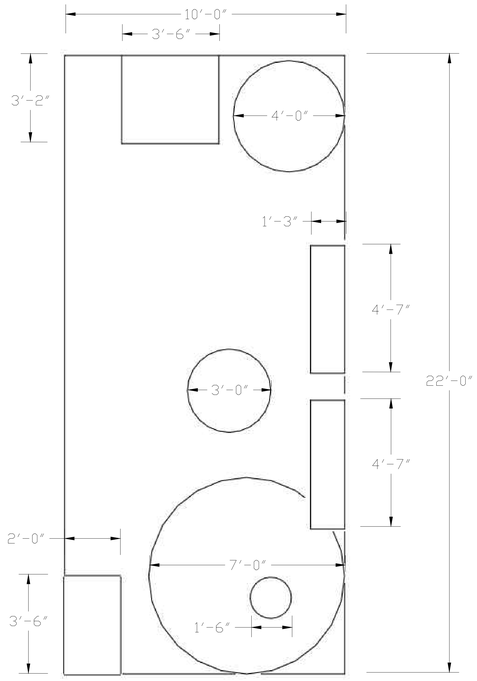
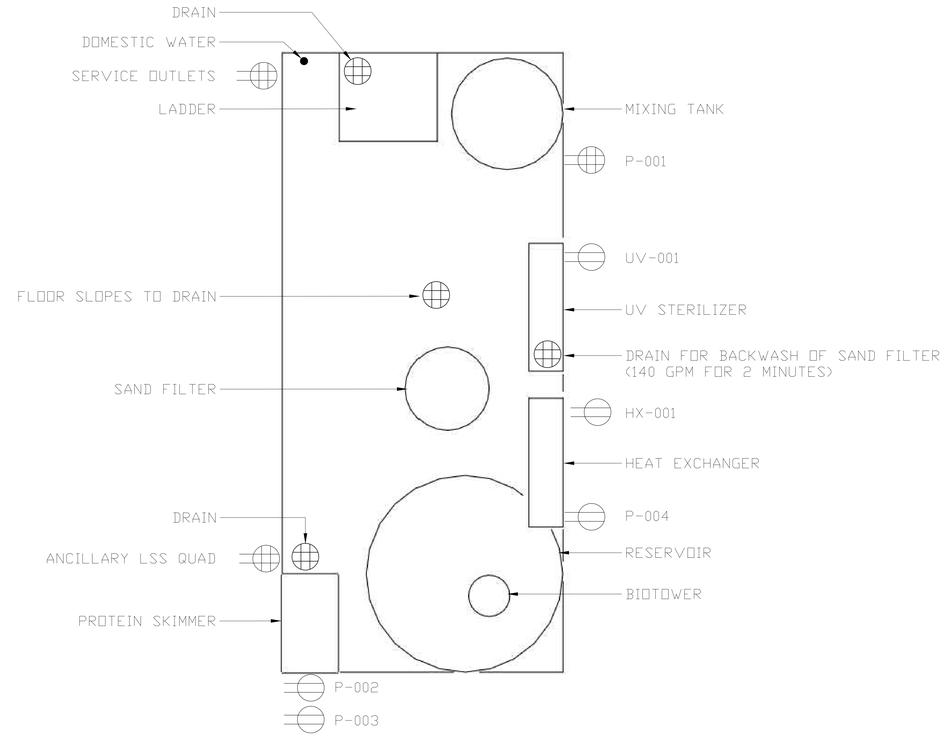
checked by: TENJI/ES
drawing no.: AQ003



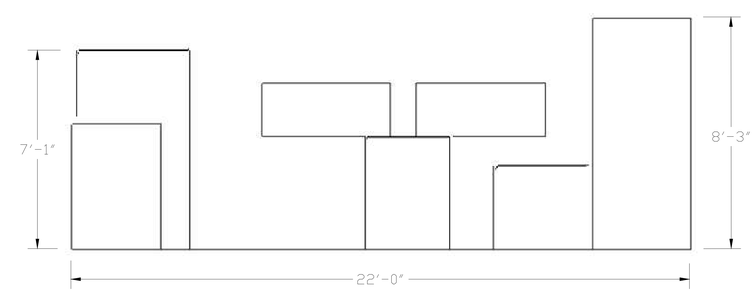
1 LSS LAYOUT - ISOMETRIC
SCALE: NTS



2 LSS LAYOUT - TOP VIEW (WITH DIMENSIONS)
SCALE: NTS



3 LSS LAYOUT - TOP VIEW (WITH NOTES)
SCALE: NTS



4 LSS LAYOUT - ELEVATION VIEW
SCALE: NTS

NOTE: FINAL LAYOUT OF LSS WILL BE DETERMINED BY MEP AND SPATIAL LIMITATIONS. THE FOLLOWING LAYOUT OF LSS IS FOR ILLUSTRATIVE PURPOSES.

KEYED NOTES

drawing title: LSS LAYOUT

REVISIONS

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	11-21-2012	BID DOCUMENTS

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

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project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no.: ----
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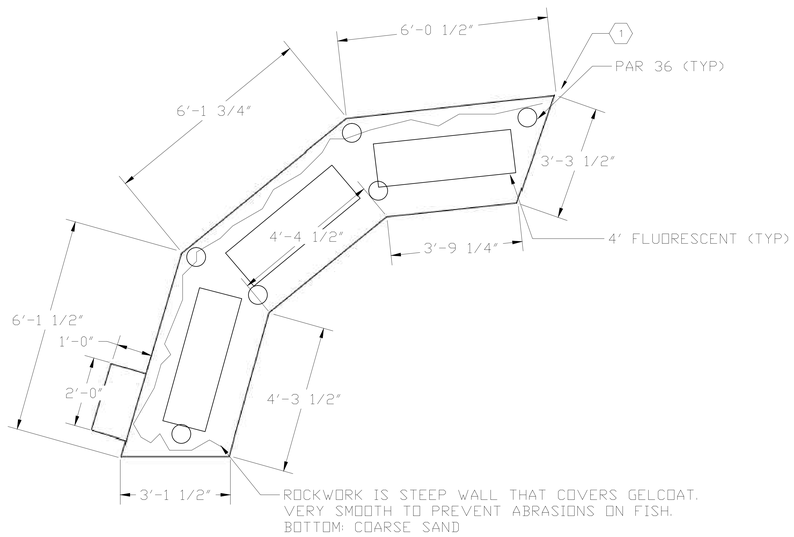
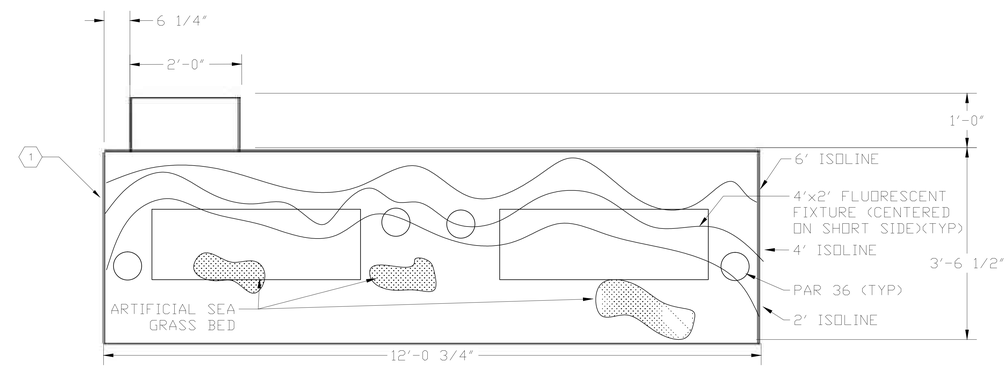
approved by: TENJI/ES
drawing no.: AQ004

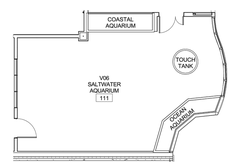


1 OCEAN AQUARIUM - TOP VIEW
SCALE: NTS



2 COASTAL AQUARIUM - TOP VIEW
SCALE: NTS

KEY PLAN



KEYED NOTES

1. ALL DIMENSIONS TO BE CONFIRMED BY ARCHITECT.

drawing title: LIGHTING DETAIL

REVISIONS

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STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

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Centerbrook Architects and Planners, LLP
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project: SCSU NEW ACADEMIC LABORATORY BUILDING

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sheet no. of no.: 1 of 2
date: 11-21-2012
scale: As indicated
drawn by: FDCAD/DW
checked by: TENJI/ES
drawing no.: AQ005

GENERAL NOTES

1. COMPLY WITH THE CONNECTICUT STATE BUILDING CODE LATEST AMENDED EDITION AND ALL OTHER GOVERNING CODES.
2. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AND SUBMIT TO THE ENGINEER FOR REVIEW A WRITTEN REPORT INDICATING ACTUAL FIELD CONDITIONS WHICH MAY VARY FROM INFORMATION INDICATED ON DRAWINGS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACCURATE COORDINATION OF THE ARCHITECTURAL, STRUCTURAL, HVAC, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS. ALL DIMENSIONS AND LOCATIONS OF EXISTING STRUCTURAL AND ARCHITECTURAL ELEMENTS SHALL BE VERIFIED BY THE CONTRACTOR AND COORDINATED WITH THE NEW STRUCTURAL ELEMENTS PRIOR TO DEMOLITION, FABRICATION OR CONSTRUCTION. EXISTING CONSTRUCTION AND DIMENSIONS SHOWN ARE PER INFORMATION PROVIDED BY THE ORIGINAL STRUCTURAL DRAWINGS OR ARE ASSUMED. THE OWNER, THE ARCHITECT AND THE STRUCTURAL ENGINEER ARE NOT RESPONSIBLE FOR ACCURACY OF THE INFORMATION.
4. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER OF RECORD BEFORE PROCEEDING.
5. PATCH AND REPAIR EXISTING CONDITIONS DAMAGED DURING THE COURSE OF NEW CONSTRUCTION.
6. ALL CONSTRUCTION METHODS SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 33 OF THE INTERNATIONAL BUILDING CODE, "SAFEGUARDS DURING CONSTRUCTION OR DEMOLITION".
7. SUBMIT TO ENGINEER TWO COPIES EACH OF MATERIAL SPECIFICATIONS, ERECTION AND DETAIL DRAWINGS, ETC., OF ALL STRUCTURAL MATERIALS AND CONNECTIONS SUFFICIENTLY IN ADVANCE OF CONSTRUCTION TO PERMIT ADEQUATE TIME FOR REVIEW (15 WORKING DAYS MIN.). ENGINEER TO MARK UP ONE COPY AND FORWARD TO ARCHITECT.
8. THE FOLLOWING MATERIALS AND METHODS OF CONSTRUCTION SHALL BE SUBJECT TO "SPECIAL INSPECTION" IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE:

1. WELDING (1704.3.1)	2. STEEL (1704.3.2)
3. HIGH STRENGTH BOLTING (1704.3.3)	4. CONCRETE (1704.4)
5. SITE PREPARATION/FILL (1704.7)	6. STRUCTURAL SAFETY (1704.19)*
7. SPRAYED FIRE RESISTANT MATERIALS (1704.11)	8. MASONRY (1704.5)

A SPECIAL INSPECTOR HIRED BY THE OWNER SHALL SUPERVISE THE TESTING AND INSPECTION OF THE ABOVE ITEMS. THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE INSPECTOR FOR ALL ITEMS REQUIRING INSPECTION A MINIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF THAT PORTION OF WORK.

*INCLUDES UNDERPINNING, PROTECTION OF ADJACENT STRUCTURES, AND STRUCTURAL STABILITY DURING CONSTRUCTION. THE CONTRACTOR SHALL HIRE A CONNECTICUT REGISTERED PROFESSIONAL ENGINEER FOR THE DESIGN OF ALL SHORING, BRACING, UNDERPINNING, ETC., AS REQUIRED FOR REVIEW BY THE SPECIAL INSPECTOR.

9. ALL STEEL MEMBERS SHALL BE FIREPROOFED IN ACCORDANCE WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE. PATCH FIREPROOFING REMOVED DURING CONSTRUCTION TO RESTORE THE ORIGINAL RATING. THE CONTRACTOR SHALL PROVIDE REASONABLE NOTICE TO THE INSPECTOR FOR ALL ITEMS REQUIRING INSPECTION.
10. THE HIGH DENSITY POLYSTYRENE REFERRED TO IN THE DRAWINGS SHALL HAVE A MINIMUM 60 PSI COMPRESSIVE STRENGTH. POLYSTYRENE SHALL NOT EMIT TOXIC FUMES WHEN EXPOSED TO HIGH TEMPERATURE. PLEASE PROVIDE INFORMATION.

SAFETY DURING EXECUTION OF WORK

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONDITIONS OF PUBLIC AND WORKER SAFETY DURING EXECUTION OF THE WORK. THIS SHALL INCLUDE COMPLIANCE WITH SUBCHAPTER 33 OF THE INTERNATIONAL BUILDING CODE: "SAFEGUARDS DURING CONSTRUCTION OR DEMOLITION".
2. THE CONTRACTOR SHALL PROVIDE SIDEWALK PROTECTION AND PROTECTION OF ADJOINING PROPERTIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND FILING A SITE SAFETY PLAN AND/OR PROVIDING OTHER WRITTEN ASSURANCES OF SAFE OPERATIONS AS MAY BE REQUIRED BY THE AUTHORITIES HAVING JURISDICTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A SAFE WORKING ENVIRONMENT FOR ALL WORKERS. THIS SHALL INCLUDE COMPLIANCE WITH ALL OSHA, STATE AND LOCAL LABOR LAWS WHICH MAY GOVERN THIS TYPE OF WORK.
5. THE CONTRACTOR SHALL PROVIDE REGULAR PERIODIC INSPECTION OF CONSTRUCTION OPERATIONS AS REQUIRED TO ENSURE ONGOING MAINTENANCE OF ALL SAFETY OPERATIONS AND EQUIPMENT. SUCH INSPECTIONS SHALL BE UNDERTAKEN BY AN AGENT OF THE CONSTRUCTION WHO IS QUALIFIED TO EVALUATE SUCH OPERATIONS AND EQUIPMENT. THIS INSPECTOR SHALL PREPARE WRITTEN SAFETY REPORTS WHICH SHALL BE MAINTAINED AT THE JOB SITE FOR REVIEW BY THE AUTHORITIES HAVING JURISDICTION.

GENERAL FOUNDATION NOTES

1. ALL FOUNDATION FOOTINGS SHALL BE PLACED ON SOIL WITH A MINIMUM BEARING CAPACITY OF 2.5 TSF AS VERIFIED AND ACCEPTED BY THE OWNER'S GEOTECHNICAL CONSULTANT.
2. THE SUBGRADE FOR ALL FOOTINGS, WALLS AND SLABS SHALL BE INSPECTED AND ACCEPTED BY THE OWNER'S TESTING AGENCY IMMEDIATELY PRIOR TO PLACING FOUNDATION CONCRETE.
3. ALL UNSUITABLE MATERIALS SHALL BE REMOVED FROM SUBGRADE AND BACKFILL AREAS AND BACKFILLED WITH ACCEPTABLE FILL ACCORDING TO THE SPECIFICATION.
4. BACKFILL AGAINST WALLS EVENLY. ALL SUPPORTING SLABS SHOULD BE IN PLACE AND THE CONCRETE SHOULD HAVE THE 28 DAY DESIGN STRENGTH.
5. NO FOOTINGS, SLABS, OR MUD SLABS SHALL BE PLACED INTO OR AGAINST SUBGRADE CONTAINING FREE WATER, FROST OR ICE. SHOULD WATER OR FROST ENTER A FOOTING EXCAVATION AFTER SUBGRADE APPROVAL, THE SUBGRADE SHALL BE RE-INSPECTED BY THE OWNER'S TESTING AGENCY AFTER REMOVAL OF WATER OR FROST.
6. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY FROST OR ICE FROM PENETRATING ANY FOOTING OR SLAB SUBGRADE BEFORE AND AFTER PLACING CONCRETE AND UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT BUILDING ENCLOSURE.
7. THE SLABS SHALL BE PLACED OVER A 15 MIL VAPOR BARRIER, LAPPED 12 INCHES AT SEAMS OVER 6 INCHES MINIMUM OF COMPACTED COARSE DRAINAGE MATERIAL. STONE SHALL COMPLY WITH ASTM C33 SIZE 67. FOUNDATION WALLS TO BE FLUID APPLIED WATERPROOFING TYPE WR GRACE PROCOR. CEMENT WATERPROOFING TO BE UTILIZED AT ELEVATOR PITS.
8. SEE SPECIFICATION SECTION, "EARTHWORK" AND "CAST IN PLACE CONCRETE" FOR ADDITIONAL REQUIREMENTS.

EXCAVATION NOTES

1. ALL EXCAVATION SHALL COMPLY WITH OSHA REQUIREMENTS.
2. ALL EXCAVATION SHALL BE BASED ON ENGINEERS DRAWINGS PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CONNECTICUT AND RETAINED BY THE CONTRACTOR. SUBMIT THESE DRAWINGS TO THE OWNER'S REPRESENTATIVE.
3. GROUND WATER MAY BE ENCOUNTERED. PROVIDE DEWATERING AS NECESSARY.
4. THE PERIMETER OF THE GENERAL EXCAVATION SHALL BE RETAINED BY A TEMPORARY SOIL/ROCK RETENTION SYSTEM AS REQUIRED. THE DESIGN, INSTALLATION, MAINTENANCE AND REMOVAL (WHERE REQUIRED) SHALL BE THE COMPLETE AND SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO PREVENT DAMAGE AND SETTLEMENT OF EXISTING OR NEW CONSTRUCTION INSIDE OR OUTSIDE OF THE PROJECT LIMITS. ANY DAMAGE TO NEW OR EXISTING CONSTRUCTION INSIDE OR OUTSIDE OF THE PROJECT LIMITS, CAUSED BY CONSTRUCTION TECHNIQUES OR MOVEMENTS OF THE SOIL RETENTION SYSTEM, IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL COORDINATE ALL ELEMENTS OF THE SOIL RETENTION SYSTEM WITH ALL ELEMENTS OF THE PERMANENT BUILDING.
6. ALL EXCAVATION SHALL BE BASED ON ENGINEERED DRAWINGS PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CONNECTICUT AND RETAINED BY THE CONTRACTOR. THE DRAWINGS SHALL INCLUDE PLANS AND SECTIONS OF EXCAVATION SEQUENCES. THE EXCAVATION SEQUENCES SHALL BE CONTROLLED TO MATCH THE REQUIREMENTS OF THE DESIGN OF THE SOIL RETENTION SYSTEM. THE DESIGN EARTH AND HYDRAULIC PRESSURES WILL BE REVIEWED BY THE OWNER'S GEOTECHNICAL REPRESENTATIVE.
7. THE EXCAVATIONS FOR SPREAD FOOTINGS, GRADE BEAMS, PITS, ETC., SHALL BE EXCAVATED ON AN INDIVIDUAL, LOCALIZED BASIS DOWN FROM THE SUBGRADE LEVEL. EACH EXCAVATION SHALL BE A TRIM, LEVEL SURFACE.
8. THE CONTRACTOR SHALL PROVIDE POSITIVE PROTECTION (MAT/SHEET COVERINGS) FOR ALL EXCAVATION SLOPES TO PROTECT SLOPES FROM INSTABILITY AND DETERIORATION DUE TO RAIN, WIND OR SNOW.
9. THE CONTRACTOR SHALL PROVIDE SURFACE DRAINAGE CHANNELS, SUMPS AND SUMP PUMPS TO PROTECT ALL EXCAVATIONS FROM FLOODING. FLOODING OF ANY EXCAVATION AFTER APPROVAL OF THE SUBGRADE WILL BE CAUSE FOR COMPLETE REDOING OF THE SUBGRADE AND WILL REQUIRE APPROVAL OF THE SUBGRADE.
10. SUBMIT THE RETENTION SYSTEM DESIGN, EXCAVATION SEQUENCES AND TECHNIQUES AND DEWATERING SYSTEM FOR REVIEW BY THE OWNER'S GEOTECHNICAL ENGINEER.
11. SEE SPECIFICATION SECTION, "EARTHWORK" FOR ADDITIONAL REQUIREMENTS.
12. ALL EXCAVATIONS ADJACENT AND UNDER EXISTING FOOTINGS SHALL BE INSPECTED BY THE CONTRACTOR'S CT P.E. GEOTECHNICAL ENGINEER DURING EXCAVATION. HE SHALL OBSERVE THE SOIL OR ROCK BEDDING PLANES, FRACTURE LINE, ETC. TO DETERMINE IF UNDERPINNING OR ROCK BOLTING IS REQUIRED. PROVIDE UNDERPINNING AND/OR ROCK BOLTING AS REQUIRED. SUBMIT TO THE OWNER'S GEOTECHNICAL ENGINEER THE UNDERPINNING AND/OR ROCK BOLT DESIGN FOR HIS REVIEW.
13. ALL ITEMS RELATING TO THE EXCAVATION, UNDERPINNING, ETC. ARE SUBJECT TO THE REVIEW OF THE OWNER'S GEOTECHNICAL ENGINEER.

STRUCTURAL STEEL NOTES

1. ALL STRUCTURAL STEEL SHALL COMPLY WITH ASTM A992 - GRADE 50, UNLESS NOTED OTHERWISE. STRUCTURAL STEEL CHANNELS AND ANGLES TO BE ASTM A36, PIPE TO BE ASTM A53 GRADE B: FY=35 KSI, STRUCTURAL STEEL FOR TUBES SHALL BE ASTM A500-GRADE B, 42KSI ROUND, 46KSI RECT.
2. STAINLESS STEEL TO BE ASTM A240 GRADE 316 FY=30 KSI MIN.
3. ALL BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325 OR A490. ALL BOLTS SHALL BE 3/4 INCH DIAMETER, UNLESS NOTED OTHERWISE. HARDENED WASHERS USED UNDER DIRECT TENSION INDICATOR WASHERS SHALL BE PER ASTM F436, EXCEPT THAT FOR NOMINAL DIAMETERS 1 INCH AND GREATER, THE INNER DIAMETER OF THE WASHER SHALL BE THAT OF A "STANDARD HOLE" AS DEFINED BY RCSC.
4. ALL FIELD WELDING ELECTRODES SHALL BE E70XX LOW HYDROGEN. SHOP WELDING ELECTRODES SHALL BE E70XX LOW HYDROGEN OR E71T8- NI1 OR E71T-9. ALL FILLER METAL SHALL HAVE A MINIMUM CVN TOUGHNESS OF 20 FT. LBS. AT MINUS 20 DEGREES F.
5. ALL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO AISC "LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS", AISC HSS (2000) "LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR STEEL HOLLOW STRUCTURAL SECTIONS", AND AISC "CODE OF STANDARD PRACTICE", THIRD EDITION 1999.
6. ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS AND SHALL CONFORM TO THE AWS "CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION", LATEST EDITION. ALL BOLTING SHALL CONFORM TO THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", LATEST EDITION.
7. THE FABRICATOR/ERECTOR SHALL SUBMIT TO THE ENGINEER, FOR REVIEW, ENGINEERED AND CHECKED DRAWINGS SHOWING SHOP FABRICATION DETAILS, FIELD ASSEMBLY DETAILS AND ERECTION DIAGRAMS FOR ALL STRUCTURAL STEEL. ERECTION DRAWINGS AND JOB STANDARDS DESCRIBING TYPICAL CONNECTION DETAILS AND CAPACITIES SHALL BE SUBMITTED AND APPROVED PRIOR TO THE START OF PIECE DETAILING.
8. UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS, ALL CONNECTIONS SHALL BE DESIGNED AND DETAILED UNDER THE SUPERVISION OF A CONNECTICUT STATE REGISTERED PROFESSIONAL ENGINEER HIRED BY THE FABRICATOR. CALCULATIONS SHALL BEAR THE SEAL AND SIGNATURE OF THIS ENGINEER. DETAILING SHALL BE PERFORMED USING RATIONAL ENGINEERING DESIGN AND STANDARD PRACTICE, AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE GENERAL DETAILS SHOWN ON THE DRAWINGS ARE CONCEPTUAL ONLY AND DO NOT INDICATE THE REQUIRED NUMBER OF BOLTS OR WELD SIZES, UNLESS SPECIFICALLY NOTED.
9. BEAM TO COLUMN AND BEAM TO GIRDER CONNECTIONS SHALL BE MOMENT CONNECTED WHERE SHOWN. ALL BOLTED MOMENT CONNECTIONS SHALL UTILIZE HIGH STRENGTH BOLTS IN SLIP CRITICAL CONNECTIONS. THE WEB SHEAR CONNECTIONS FOR MOMENT CONNECTED BEAMS SHALL USE HIGH STRENGTH BOLTS IN SLIP CRITICAL CONNECTIONS FOR THE CAPACITIES SHOWN BELOW, UNLESS NOTED OTHERWISE. ALL BOLTED BRACE CONNECTIONS AND ALL BOLTED COLUMN SPLICES SHALL UTILIZE HIGH STRENGTH BOLTS IN SLIP CRITICAL CONNECTIONS. ALL OTHER CONNECTIONS SHALL BE SIMPLE SHEAR CONNECTIONS UTILIZING FULLY PRETENSIONED HIGH-STRENGTH BOLTS IN BEARING-TYPE CONNECTIONS WITH THREADS INCLUDED IN THE SHEAR PLANE, UNLESS NOTED OTHERWISE. THE CAPACITIES SHALL BE AS SHOWN BELOW, UNLESS NOTED OTHERWISE.

MINIMUM SHEAR CAPACITIES (FACTORED LOAD)

W4	8.5 KIPS	W21	100 KIPS
W5	8.5 KIPS	W24	105 KIPS
W6	8.5 KIPS	W27	125 KIPS
W8	15 KIPS	W30	160 KIPS
W10	20 KIPS	W33	190 KIPS
W12	35 KIPS	W36	225 KIPS
W14	50 KIPS	W40	260 KIPS
W16	60 KIPS	W44	290 KIPS
W18	85 KIPS		

BEAM REACTIONS EXCEEDING THE ABOVE MINIMUM SHEAR CAPACITIES ARE NOTED ON THE DRAWINGS AND BOXED THUS [--K] AT EACH END OF THE BEAM. DESIGN CHANNEL AND TUBE MEMBERS FOR THE SAME LOAD AS THE SAME DEPTH IN W SHAPE. DESIGN CONNECTION FOR AXIAL FORCES DENOTED [--A]. LOADS ARE IN KIPS. THE MINIMUM NUMBER OF BOLTS PER CONNECTION SHALL BE TWO (2).

10. UNLESS NOTED OTHERWISE, ALL MOMENT CONNECTIONS SHALL DEVELOP THE FULL BENDING CAPACITY OF THE MEMBER, 0.66xFYxSX, AND SHALL HAVE A SHEAR CAPACITY OF (O.66xFYxSX)x2/ BEAM LENGTH PLUS THE SHEAR CAPACITY REQUIRED PER NOTE (9), ABOVE. UNLESS NOTES OTHERWISE, ALL BRACE CONNECTIONS SHALL DEVELOP THE FULL TENSION CAPACITY OF THE MEMBER, 0.60xFYxAS.
11. ALL BOLTS IN SLIP CRITICAL CONNECTIONS SHALL UTILIZE DIRECT TENSION INDICATOR WASHERS. DIRECT TENSION INDICATOR WASHERS SHALL COMPLY WITH ASTM F959 AND BE AS MANUFACTURED BY TURNASURE LLC. INSTALL PER RCSC AND MANUFACTURER'S RECOMMENDATIONS.
12. MINIMUM FILLET WELDS SHALL COMPLY WITH THE AISC, BUT SHALL NOT BE LESS THAN 1/4 INCH, UNLESS NOTED OTHERWISE.
13. SHOP AND FIELD TESTING OF WELDS AND BOLTS SHALL BE AS FOLLOWS:
    - A. ALL WELDS SHALL BE VISUALLY INSPECTED. FIFTEEN (15) PERCENT AT RANDOM SHALL BE MEASURED.
    - B. FILLET WELDS FOR BEAM AND GIRDER SHEAR CONNECTION PLATES (15 PERCENT AT RANDOM) SHALL BE CHECKED BY MAGNETIC PARTICLE FOR FINAL PASS ONLY.
    - C. ULTRASONICALLY TEST 100 PERCENT OF ALL FULL PENETRATION WELDS.
    - D. CHECK BY CALIBRATED TORQUE WRENCH 25 PERCENT OF BOLTS IN EACH SHEAR CONNECTION, BUT NOT LESS THAN TWO (2) BOLTS PER CONNECTION
    - E. CHECK ALL SLIP CRITICAL BOLTS WITH THE "DIRECT TENSION INDICATOR" METHOD. ALL BOLTS SHALL BE VISUALLY INSPECTED. MEASURE, WITH FEELER GAGES, AT LEAST 15 PER CENT OF BOLTS IN EACH CONNECTION, BUT NOT LESS THAN TWO BOLTS PER CONNECTION.
    - F. THE OWNER'S TESTING AGENCY SHALL PERFORM ALL SHOP AND FIELD INSPECTION AND TESTING AS OUTLINED ABOVE.
    - G. THE STRUCTURAL STEEL FABRICATOR AND ERECTOR SHALL SCHEDULE ALL WORK TO ALLOW THE ABOVE TESTING REQUIREMENTS TO BE COMPLETED.
14. FABRICATE BEAMS WITH NATURAL CAMBER UP.
15. AFTER FABRICATION AND IN THE FIELD PRIOR TO THE APPLICATION OF SPRAYED-ON OR TROWELED ON FIREPROOFING, ALL STEEL SHALL BE CLEANED OF ALL RUST, LOOSE MILL SCALE AND OTHER FOREIGN MATERIALS.
16. STRUCTURAL STEEL SHALL RECEIVE ONE COAT OF RUST-INHIBITIVE PRIMER, AFTER FABRICATION. PRIMER SELECTED SHALL BE COMPATIBLE WITH THE TOP-COAT PAINT. CONSULT ARCHITECT ABOUT FIRE PROOFING PAINT & FOR ALL MASONRY ANCHORAGE DEVICES TO BE SHOP ATTACHED TO STEEL.
17. THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
18. STRUCTURAL STEEL SHALL BE FIREPROOFED IN LOCATIONS SPECIFIED BY THE ARCH'L CODE PLANS. NO PAINT APPLICATION SHALL OCCUR AT AREAS TO BE FIREPROOFED.
19. GAS OR ARC CUTTING OF NEW OR EXISTING SECTIONS IS NOT ALLOWED. GAS OR ARC CUTTING, TO ENLARGE EXISTING OR NEW BOLT HOLES IS NOT ALLOWED. GAS OR ARC CUTTING TO CREATE NEW HOLES IN EXISTING OR NEW STEEL IS NOT ALLOWED. ALL NEW HOLES TO EXISTING AND NEW STEEL SHALL BE DRILLED.
20. THE REACTIONS AND CONNECTION VALUES SHOWN ON THE DRAWINGS ALREADY HAVE INCLUDED THE ONE THIRD INCREASE ALLOWED BY CODE. THE VALUE SHOWN ON THE DRAWING FOR CONNECTION FORCES CANNOT BE REDUCED.
21. FIELD FABRICATED BEAM SPLICES ARE NOT ALLOWED.
22. UNLESS OTHERWISE NOTED, EXPANSION BOLTS SHALL BE 3/4 INCH DIA. HILTI KWIKBOLT-II STAINLESS STEEL WITH MIN. 4-3/4 INCH. EMBEDMENT
23. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. THIS INCLUDES ALL DUNNAGE AND STEEL FRAMING WITHIN LOUVERED PENTHOUSES. LINTELS, SHELF ANGLES, LINTEL HANGERS, PRECAST CONCRETE OR STONE HANGERS, BOLTS, AND MISCELLANEOUS ANGLES ARE TO BE STAINLESS STEEL.
24. ALL STAIR STRUCTURES AND MISCELLANEOUS STEEL SHALL BE DESIGNED AND DETAILED BY AN ENGINEER HIRED BY THE CONTRACTOR. DRAWINGS AND CALCULATIONS SHALL BEAR THE SEAL AND SIGNATURE OF A CONNECTICUT STATE REGISTERED PROFESSIONAL ENGINEER HIRED BY THE CONTRACTOR.
25. ALL STEEL WHICH REMAINS EXPOSED TO VIEW SHALL CONFORM TO THE REQUIREMENTS OF ARCHITECTURALLY EXPOSED STRUCTURAL STEEL. SEE COLUMN SCHEDULE FOR LISTING OF ARCHITECTURALLY EXPOSED COLUMNS. SEE PLANS/DETAILS FOR ARCHITECTURALLY EXPOSED BEAMS, HANGERS, AND TRELLISES.

STRUCTURAL METAL DECK NOTES

1. ALL METAL DECKING (MD) SHALL BE COMPOSITE METAL UNLESS NOTED OTHERWISE. FABRICATE DECK FROM STEEL TYPE ASTM A653, GRADE 40, HAVING A MINIMUM YIELD STRENGTH OF 40,000 PSI. ALL DECKING SHALL BE HOT-DIPPED, GALVANIZED. ALL ROOF DECKING SHALL BE DESIGNED AND ANCHORED TO MEET FACTORY MUTUAL REQUIREMENTS.
2. THE FABRICATOR/ERECTOR SHALL PROVIDE ENGINEERED AND CHECKED SHOP DRAWINGS INDICATING LOCATION, GAUGE AND SIZE OF EACH PIECE OF DECKING. THE DRAWINGS SHALL CLEARLY SHOW WELDING DETAILS TO STRUCTURAL FRAMING AND SIDE LAP CONNECTION DETAILS.
3. THE MINIMUM GAUGE OF THE METAL DECK SHALL BE 20 GAUGE (VERIFY ACTUAL REQUIRED GAUGE PER SPECIFIED DESIGN CRITERIA); SEE SCHEDULE S202 AND LOADING CRITERIA S001 AND S002.
4. ALL METAL DECKING SHALL BE WELDED TO STRUCTURAL STEEL BY QUALIFIED WELDERS, USING PRE QUALIFIED PROCEDURES. THE ERECTOR SHALL ESTABLISH A WELDING PROCEDURE FOR PLUG WELD OF THE STEEL DECKING TO THE STRUCTURAL STEEL FOR THE PARTICULAR GAUGE USED. PRIOR TO THE START OF ERECTION OF THE STEEL DECK, EACH WELDER SHALL BE QUALIFIED USING THIS PROCEDURE AS WITNESSED BY THE OWNER'S STRUCTURAL TESTING LABORATORY.
5. ALL METAL DECKING SHALL BE WELDED AT 12 INCHED MAXIMUM ON CENTER TO THE SUPPORTING STEEL WITH A 3/4 INCH DIAMETER PUDDLE WELD. SIDE LAPS SHALL BE FASTENED AT 30 INCHES MAXIMUM ON CENTER.
6. SUBMIT CHECKED SHOP DRAWINGS INDICATING EXACT LAYOUT OF STUDS FOR EACH BEAM SIZE, NUMBER OF STUDS, SPAN AND DECK LAYOUT.
7. SHEAR STUDS SHALL BE WELDED THROUGH THE METAL DECK WITH PRE QUALIFIED METHODS. IF THROUGH-DECK WELDING IS UNFEASIBLE, INSTALL STUDS IN PRE PUNCHED HOLES IN DECK.
8. COMPOSITE METAL DECK SHALL TYPICALLY BE CONTINUOUS OVER A MINIMUM OF THREE (3) SPANS IN THE DIRECTION INDICATED; USE SINGLE SPANS ONLY WHERE REQUIRED BY FRAMING GEOMETRY. SHORE AS REQUIRED.
9. PROVIDE CONTINUOUS SHEET METAL CLOSURES AT ALL SLAB EDGES AND CONTINUOUS DECK CLOSURE AT ALL DECK ENDS. MINIMUM CLOSURE THICKNESS SHALL BE 12 GAUGE AT ALL SPANDREL CONDITIONS.
10. PROVIDE COLUMN CLOSURES, CONT STRIPS, RECESSED SUMP PANS, PLATES AT PIPING PENETRATIONS ETC. PROVIDE SUPPLEMENTAL FRAMING AT OPENINGS, MOMENT CONNECTIONS ETC. AS REQUIRED FOR SUPPORT OF THE METAL DECK. COORDINATE OPENINGS WITH THE DRAWINGS. PROVIDE 24" SQUARE 12 GAUGE REINFORCING PLATE AT ALL ROOF DRAINS. PROVIDE 1/4" THICK CONTINUOUS BENT RIDGE AND VALLEY PLATES FOR METAL DECK AND ROOF DECK AT ALL CHANGE OF DECK PLANES AND WHERE DECK IS NOT CO-PLANAR WITH SUPPORT BEAM FLANGE.
11. NO LOADS EXCEEDING 50 POUNDS SHALL BE PERMITTED TO BE HUNG FROM ANY METAL DECKING. HANGERS FOR DUCTWORK, PIPING, ETC. SHALL BE HUNG DIRECTLY FROM STRUCTURAL STEEL WORK OR SUPPLEMENTARY MEMBERS OR ANCHORS EMBEDDED IN THE CONCRETE. SUBMIT HANGING LOAD DETAILS FOR REVIEW. TOTAL HUNG LOAD SHALL NOT EXCEED 5 PSF WHETHER HUNG FROM THE SLAB OR THE STRUCTURAL STEEL.
12. ALL METAL DECKING SHALL CONFORM TO THE STEEL DECK INSTITUTE SPECIFICATIONS AND RECOMMENDATIONS UNLESS NOTED OTHERWISE.
13. USE 3/4" DIAMETER BY 5" LONG, HEADED STUDS BY NELSON STUD OR EQUIVALENT AT ALL COMPOSITE METAL SLABS U.O.N. ON PLAN.
14. SEE SPECIFICATION SECTION "METAL DECKING" FOR ADDITIONAL REQUIREMENTS.
15. SLAB SHALL HAVE 28-DAY CURE AND REACH THE SPECIFIED STRENGTH BEFORE ERECTING ANY MASONRY OR CONCRETE WALL ON IT, AND BEFORE POURING ANY TOPPING SLAB.

STRUCTURAL CONCRETE NOTES

1. PROVIDE CAST-IN-PLACE CONCRETE OF THE TYPES AND MINIMUM 28-DAY COMPRESSIVE STRENGTHS AS SHOWN ON THE CONCRETE MATERIALS SCHEDULE, THIS SHEET.
2. STRUCTURAL CONCRETE SHALL CONTAIN A WATER REDUCING, PLASTICIZING ADMIXTURE. APPROVED, HIGH-RANGE WATER REDUCING ADMIXTURES MAYBE UTILIZED. ALL CONCRETE PERMANENTLY EXPOSED TO THE WEATHER (AND WITHIN 4 FEET OF FINISHED GRADE) SHALL CONTAIN AN AIR-ENTRAINING ADMIXTURE TO ACHIEVE 6% AIR CONTENNT. THE MAXIMUM WATER CEMENT RATIO OF ALL CONCRETE SHALL BE 0.5, U.N.O.
3. ALL REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO THE STANDARDS OF ASTM A615-00, GRADE 60.
4. ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318-02 AND THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315-99.
5. CHECKED SHOP DRAWINGS SHOWING REINFORCING DETAILS, INCLUDING STEEL SIZES, AND PLACEMENT, SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.
6. THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS SHOWING THE LOCATIONS OF ALL CONSTRUCTION JOINTS, CONTROL JOINTS, CURBS, SLAB DEPRESSIONS, SLEEVES, OPENINGS, ETC.
7. REINFORCING SPLICES AND DEVELOPMENT LENGTHS SHALL CORRESPOND TO ACI 318-02, AS NOTED IN THE DRAWINGS.
8. WHERE REQUIRED, DOWELS SHALL MATCH SIZE AND NUMBER OF MAIN REINFORCING.
9. PROVIDE ADDITIONAL BARS AROUND ALL FLOOR AND WALL OPENINGS. SEE TYPICAL DETAIL FOUNDATIONS WALL OPENING. REQUIREMENTS AT FLOOR CONSTRUCTION SIMILAR.
10. ALL BAR SUPPORTS SHALL BE GALVANIZED. BAR SUPPORTS IN CONTACT WITH EXPOSED SURFACES SHALL BE PLASTIC TIPPED.
11. BEAM AND SLABS SHALL NOT BE BOXED OUT OR SLEEVED OR HAVE THE REINFORCING INTERRUPTED EXCEPT AS SHOWN ON THE STRUCTURAL DRAWINGS.
12. ALL WELDED WIRE FABRIC SHALL CONFORM TO THE STANDARDS OF ASTM A185-01.
13. ALL WELDED WIRE FABRIC SHALL BE LAPPED TWO (2) FULL MESH PANELS AND TIED SECURELY.
14. PROVIDE ONE (1) LAYER OF 6x6-W1.4xW1.4 W.W.F. CONTINUOUS IN ALL CONCRETE FILLS ABOVE THE STRUCTURAL SLAB AND IN ALL COMPOSITE METAL DECK SLABS. ALL MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT PADS SHALL BE REINFORCED WITH AT LEAST ONE (1) LAYER OF 6x6-W4xW4 W.W.F. (SEE HVAC, PLUMBING AND ELECTRICAL DRAWINGS FOR PADS WHERE REQUIRED). PROVIDE TWO LAYERS IN RADIANT SLABS ON METAL DECK
15. ALL CONSTRUCTION JOINTS SHALL BE CLEANED AND MOISTENED IMMEDIATELY PRIOR TO PLACING NEW CONCRETE. REFER TO DRAWINGS AND ARCHITECTURAL DRAWINGS FOR WATER STOP AND WATERPROOFING DETAILS.
16. SEE ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF ALL FLOOR FILL, FINISHES, FLOOR DEPRESSIONS AND CURBS.
17. PLACE SLABS-ON-GRADE IN ACCORDANCE WITH ACI 302 "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION".
18. SEE ARCHITECTURAL, HVAC, ELECTRICAL AND PLUMBING DRAWINGS FOR SLAB OPENINGS.
19. SEE ARCHITECTURAL DRAWINGS FOR ALL WATERPROOFING/DAMPROOFING DETAILS & ALL EMBEDDED ANCHORS FOR MASONRY.
20. THE CONTRACTOR SHALL INSTRUMENT CHECK ALL FORMWORK FOR COMPLIANCE WITH ACI SPECIFIED TOLERANCES PRIOR TO PLACEMENT OF THE CONCRETE THEREON.
21. GROUT SHALL BE NON-SHRINK, NON-METALLIC, "FIVE STAR GROUT" BY U.S. GROUT, OR EQUAL.
22. "CAST-IN-PLACE CONCRETE" TO BE:

FOOTINGS	4000 PSI	145 PCF	
FOUNDATION WALLS	6000 PSI	145 PCF	
COLUMNS	6000 PSI	145 PCF	
METAL DECK SLABS *	4000 PSI	145 PCF	
CONCRETE SUSPENDED SLABS	4000 PSI	145 PCF	
INTERIOR CONCRETE FILL AND MISCELLANEOUS CONCRETE	4000 PSI	145 PCF	
CONCRETE EXPOSED TO FREEZE/ THAW OR DEICERS* (INCLUDING GROUND FLOOR MECHANICAL ROOF)	4500 PSI	145 PCF	W/C RATIO: 0.45 MAX.

*AREAS SUBJECT TO VEHICULAR TRAFFIC SHALL CONTAIN A CORROSION INHIBITIVE ADMIXTURE, WR GRACE DCI-S OR EQUAL.

23. MECHANICAL BAR SPLICERS, COUPLINGS AND HALF COUPLINGS SHALL DEVELOP 125% FY TIMES THE CAPACITY OF THE ATTACHED BARS. ALL SPLICES REQUIRED FOR #14 BARS TO BE MADE WITH MECHANICAL BAR SPLICERS. STAGGER SPLICES 8'-0" MINIMUM.
24. BEAMS ARE EQUALLY SPACED BETWEEN COLUMN LINES, UNLESS OTHERWISE NOTED.
25. NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.
26. THE CONTRACTOR SHALL ALLOW FOR 1/2 INCH OF ADDITIONAL CONCRETE FOR LEVELING OF SLABS SUPPORTED BY METAL DECK/COMPOSITE STEEL BEAM SYSTEMS. THE CONTRACTOR SHALL PLACE CONCRETE ON METAL DECK TO THE SPECIFIED THICKNESS OVER AND ALONG ALL STEEL FRAMING, AND SHALL PROVIDE ADDITIONAL CONCRETE AS NECESSARY TO "FILL" METAL DECK DEFLECTIONS FLAT BETWEEN STEEL FRAMING.
27. TOLERANCES REQUIRED FOR THE CONCRETE SLABS. PROVIDE SLAB OF UNIFORM THICKNESS AS SHOWN. SURFACES SHALL BE FINISHED SUCH THAT THE DISTANCE BETWEEN THE SURFACE OF THE CONCRETE AND A TEN FOOT STRAIGHT EDGE PLACED ANYWHERE ON THE SLAB SHALL NOT EXCEED 1/4 INCH. SLABS SHALL BE FILLED AND/OR GROUND DOWN AS NECESSARY (AFTER LAYOUT OF ARCHITECTURAL FEATURES) SUCH THAT THE FINISHED ARCHITECTURE OF CONTIGUOUS SPACES IS NOT IMPAIRED. FLATTENING OR LEVELLING THE FLOOR SLAB FILLING, WHERE REQUIRED, SHALL BE WITH A SELF LEVELING, CEMENTITIOUS PRODUCT CAPABLE OF BEING TAPERED TO A FEATHERED EDGE.
28. SEE SPECIFICATION SECTION "CAST-IN-PLACE CONCRETE" FOR ADDITIONAL REQUIREMENTS.
29. FOR CONCRETE WALLS REINFORCED WITH ONE LAYER OF BARS, BARS SHALL BE CENTERED ABOUT WALL.
30. CONFORM WITH ACI 305.12 "HOT WEATHER CONCRETING" AND ACI 306.12 "STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING" DEPENDED UPON TEMPERATURE/WEATHER CONDITIONS.
31. ARCHITECTURALLY EXPOSED CONCRETE WALLS AND COLUMNS TO BE SMOOTH FORMED WITH STEEL OR FIBERGLASS FACED FORMS. REFER TO SPEC SECTION 03 33 00 FOR ADDITIONAL INFORMATION.

ALUMINUM NOTES

1. ALL ALUMINUM PLATE AND SHEET TO COMPLY WITH ASTM B 209, ALLOY 6061-T6. ALL ALUMINUM STRUCTURAL SHAPES AND EXTRUSIONS TO COMPLY WITH ASTM B 308, ALLOY 6061-T6.
2. ANCHORS TO BE A193 GR B8M CLASS 1. STAINLESS STEEL NUTS TO BE HEAVY HEX TYPE CONFORMING TO A194 GR 8M.
3. ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS AND SHALL CONFORM TO AWS D1.2 "STRUCTURAL WELDING CODE - ALUMINUM" 1997.
4. ALL DETAILING FABRICATION AND ERECTION SHALL CONFORM TO ADM 1-00 "ALUMINUM DESIGN MANUAL".
5. THE FABRICATOR/ERECTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW, ENGINEERED AND CHECKED DRAWINGS SHOWING SHOP FABRICATION DETAILS, FIELD ASSEMBLY DETAILS, AND ERECTION DIAGRAMS FOR ALL ALUMINUM.
6. ALL CONNECTIONS SHALL BE DESIGNED AND DETAILED UNDER THE SUPERVISION OF A CONNECTICUT STATE REGISTERED PROFESSIONAL ENGINEER HIRED BY THE FABRICATOR. CALCULATIONS SHALL BEAR THE SEAL AND SIGNATURE OF THIS ENGINEER.

DESIGN CRITERIA

1. COMPLY WITH THE 2003 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2005 CONNECTICUT STATE BUILDING CODE, W/2009 AMENDMENTS.
2. COMPLY WITH THE FOLLOWING ASHRAE TC 2.6 REQUIREMENTS FOR VIBRATION.
3. VIBRATION PARAMETERS, AS DESIGNED, ARE BASED UPON SLOW WALKING PACE (50 STEPS/MINUTE) AT 240# FOOTFALL IMPULSE IN LABS AND FAST WALKING PACE (100 STEPS PER MINUTE) AT 315# FOOTFALL IMPULSE IN CORRIDORS. VIBRATION COMPLIANCE VERIFIED BY ACCENTECH.

ROOM NUMBERS AND CRITERIA ARE IDENTIFIED BELOW.

LEVEL VC-D
- #032 SEM LAB
- #034 TEM LAB
- #042 AFM IN GLOVEBOX
- #038 AFM/FIB

LEVEL VC-C
- #133 OPTICS LAB 500-800 dB
- #124 OPTICS LAB LASERS 1 MICRON
- #037 HIGH RES MICROSCOPE
- #031 SEM (PORTABLE) AND HIGH RES MICROSCOPE
- #141 OPTICS LAB LASERS

LEVEL VC-B
- #019 HIGH MAG OPTICAL MICROSCOPES
- #029 HIGH MAG OPTICAL MICROSCOPES

LEVEL VC-A
- ALL OTHER LABS

GEOTECHNICAL CRITERIA

1. GROUNDWATER ELV. 30 FT. BELOW GRADE
2. PROVIDE TEMPORARY EXCAVATION SUPPORT PER GEOTECHNICAL REPORT, HALEY, AND ALDRICH, JANUARY 2011.
3. ALLOWABLE BEARING PRESSURE 2.5 TSF FOR FTGS. 3'-0" WIDE OR GREATER.
4. FOOTINGS TO BE BELOW GRADE A MINIMUM OF 3'-6" FOR FROST PROTECTION.
5. MINIMUM FTG. WIDTH 18".
6. COEFFICIENT OF STATIC FRICTION, μ=0.4.
7. FOUNDATION WALL DESIGN:
   - PROVIDE DRAINAGE PIPE
   - STATIC EARTH PRESSURE 55 PCF
   - SEISMIC EARTH 9.9 PSF, DISTRIBUTED AS INVERSE TRIANGLE
   - HORIZONTAL SURCHARGE 0.5xVERTICAL
   - SURCHARGE LOADING NOT CONSIDERED FOR SEISMIC DESIGN.
   - ACTIVE PRESSURE - STATIC EARTH 35 PCF, WALLS FREE TO DEFLECT 0.001H @ TOP. - SURCHARGE 0.3X VERTICAL
   - PASSIVE PRESSURE - EQUIVALENT FLUID UNIT WEIGHT 350 PCF, BEGINNING 6" BELOW FILL.
   - FACTOR OF SAFETY: 2.0 OVERTURNING, 1.5 SLIDING FOR STATIC LOADING CONDITIONS; 1.5 OVERTURNING, 1.2 SLIDING FOR SEISMIC LOADING CONDITIONS
8. SOIL PROVIDE RESISTANCE TO UPLIFT IS CONSIDERED WITH AN ANGLE OF2:1 VERTICAL TO HORIZONTAL TRUNCATED 6" BELOW GRADE, WITH SOIL UNIT WEIGHT OF 120 PCF.

LEED CRITERIA NOTES

1. THE MATERIALS TO BE PROVIDED ARE TO MEET THE GUIDELINES FOR SELECTION AS AVAILABLE AND AS PART OF THE TOTAL PACKAGE DEVELOPED, AS DEFINED IN SPECIFICATION SECTION 01 81 13 SUSTAINABLE DESIGN REQUIREMENTS.
2. A PRIMARY GOAL FOR THE OWNER IS TO PROMOTE AND CARRY OUT SUSTAINABLE DESIGN AND CONSTRUCTION ON THE PROJECT. SUSTAINABLE DESIGN AND CONSTRUCTION IS DEFINED AS THE MATERIALS AND METHODS THAT PRESERVE LANDSCAPE, CONSERVE ENERGY, USE MATERIALS EFFICIENTLY, ENHANCE ENVIRONMENTAL QUALITY, AND SAFEGUARD WATER.
3. THE CONTRACTOR IS ENCOURAGED TO RESEARCH AND SELECT MATERIALS, BUILDING SYSTEMS, METHODS AND CONSTRUCTION PROCEDURES THAT PROVIDE THE GREATEST USE OF RECYCLED MATERIALS, ENVIRONMENTALLY SAFE BUILDING MATERIALS AND CONSTRUCTION TECHNOLOGIES, AND TO ENHANCE ENERGY EFFICIENCY.
4. PROVIDE CUT SHEET OR MANUFACTURER INFORMATION HIGHLIGHTING THE PERCENTAGE OF RECYCLED CONTENT IN EACH STEEL/CONCRETE PRODUCT.
5. PROVIDE MANUFACTURER INFORMATION HIGHLIGHTING THE LOCATION OF MANUFACTURE AND/OR HARVEST FOR PRODUCTS MANUFACTURED AND/OR HARVESTED WITHIN 500 MILES OF THE PROJECT SITE. FOR STEEL PRODUCTS, HARVEST SHALL INCLUDE SCRAP METAL RECOVERY FOR MINI-MILL STEEL PRODUCTION.
6. AS STRUCTURAL COMPONENTS TYPICALLY REPRESENT A HIGH DOLLAR PERCENTAGE OF THE BUDGET, THEY SHOULD BE TARGETED FOR HIGH PERCENTAGES OF RECYCLED CONTENT, COME FROM REGIONAL MANUFACTURING FACILITIES (WITHIN 500 MILES OF THE SITE) AND BE REGIONALLY EXTRACTED/RECOVERED/HARVESTED (WITHIN 500 MILES OF THE SITE).
7. ALL STEEL PRODUCTS SHALL CONTAIN 60% RECYCLED CONTENT. PROVIDE CUT SHEET OR MANUFACTURER INFORMATION. HIGHLIGHTING THE PERCENTAGE OF RECYCLED CONTENT IN THE STEEL PRODUCT. REINFORCING STEEL FOR CONCRETE SHAL CONTAIN 95% RECYCLED CONTENT.
8. FLY-ASH, GROUND GRANULATED BLASTFURNACE SLAG, PFA, NATURAL POZZOLAN, OR SILICA FUME SHOULD BE USED AS A REPLACEMENT FOR 50% OF THE PORTLAND CEMENT IN THE CONCRETE MIX. DOING SO INCREASES THE AMOUNT OF RECYCLED CONTENT OF THE CONCRETE MIX. VERIFY WITH THE STRUCTURAL ENGINEER AS TO ACCEPTABLE LEVELS OF FLY-ASH IN EACH CONCRETE MIX.
9. CONCRETE AGGREGATE AND PORTLAND CEMENT ARE ITEMS THAT ARE LIKELY TO BE REGIONALLY MANUFACTURED AND HARVESTED. PREFERENCE SHOULD BE GIVEN TO MIXES THAT INCORPORATE THE LARGEST PERCENTAGE OF REGIONAL MANUFACTURE AND HARVEST CONTENT. ADDITIONALLY, AGGREGATE SHOULD BE A MINIMUM OF 10% POST CONSUMER RECYCLED CONTENT OR 40% PRE-CONSUMER RECYCLED CONTENT.
10. CONCRETE FORMWORK TO BE RECYCLABLE OR REUSABLE.

CONCRETE MASONRY NOTES

1. COMPLY WITH THE CONNECTICUT STATE BUILDING CODE 2003 IBC WITH 2005 AMENDMENT AND ALL OTHER GOVERNING CODES.
2. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE ICA 530-02 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" AND ACI 530.1-02 "SPECIFICATIONS FOR MASONRY STRUCURES".
3. MATERIALS:
   - A. HOLLOW LOAD BEARING CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90-019, GRADE N, TYPE 1, WITH A MINIMUM ULTIMATE COMPRESSIVE STRENGTH (F'M) OF 2,500 PSI ON THE NET SECTION.
   - B. MORTAR AND GROUT:
     1. MORTAR FOR REINFORCED STRUCTURAL MASONRY SHALL BE TYPE M, CONFORMING TO ASTM C270-019 (JOB-MIXED PROPORTION SPECIFICATIONS; NCMA TEK 20; AND BIA TECHNICAL NOTES 8, 8A, AND 8B. AND SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3750 PSI. MASONRY CEMENT IS NOT ALLOWED.
     2. GROUT FOR REINFORCED STRUCTURAL MASONRY SHALL BE FINE OR COARSE AS REQUIRED, CONFORMING TO ASTM C476-01 AND SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2800 PSI.
   - C. REINFORCING BARS FOR REINFORCED MASONRY SHALL CONFORM TO ASTM A615-99.
4. VERTICAL CELLS TO BE FILLED WITH GROUT SHALL BE ALIGNED TO PROVIDE A CONTINUOUS, UNOBSTRUCTED OPENING OF THE DIMENSIONS SHOWN ON THE PLANS. CELLS WHICH WILL CONTAIN VERTICAL REINFORCEMENT SHALL HAVE A MINIMUM TWO (2) INCH CLEAR OPENING.
5. GROUT FOR FILLING REINFORCED OR NON-REINFORCED CELLS SHALL BE FLUID AND PLACED WITH PRESSURE GROUTING PROCEDURES APPROVED BY THE ENGINEER.
6. GROUT FOR FILLING REINFORCED OR NON-REINFORCED CELLS SHALL BE PLACED IN A 16 INCHES HEIGHT FOR THE FIRST LIFT AND 12 INCH LIFTS THEREAFTER AND CONSOLIDATED IN PLACE BY VIBRATION OR OTHER METHODS WHICH INSURE COMPLETE FILLING OF THE CELLS. ALL CELLS CONTAINING REINFORCING BARS AND/OR ANCHOR BOLTS SHALL BE FULLY GROUTED.
7. HOLLOW UNITS SHALL BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS EXCEPT THAT WEBS SHALL ALSO BE BEDDED WHERE THEY ARE ADJACENT TO CELLS TO BE REINFORCED AND/OR FILLED WITH GROUT, IN THE STARTING COURSE ON FOOTINGS AND SOLID FOUNDATION WALLS AND IN NON-REINFORCED OR GROUTED PIERS, PILASTERS AND COLUMNS.

8`. ALL CUTTING AND FITTING OF MASONRY, INCLUDING THAT REQUIRED TO ACCOMMODATE THE WORK OF OTHER TRADES, SHALL BE DONE WITH MASONRY SAWS.

9. CHASES SHALL BE BUILT INTO WALLS, NOT CUT IN. CHASES SHALL BE PLUMB AND SHALL BE A MINIMUM OF ONE (1) MASONRY UNIT LENGTH FROM JAMBS OF WALL OPENINGS. NO CHASES OTHER THAN THOSE SHOWN ON THE DRAWINGS SHALL BE CONSTRUCTED WITHOUT PRIOR REVIEW OF THE ARCHITECT/ENGINEER.
10. REINFORCED MASONRY:
    - A.
      1. CAVITY WALL REINFORCEMENT ALL WALLS AND PIERS SHALL HAVE LADDER TYPE HORIZONTAL JOINT REINFORCEMENTS AT 16" ON CENTER CONSISTING OF TWO (2) 9 GAUGE RODS WITH 9 GAUGE CROSS TIES AT 8" ON CENTER, GALVANIZED WITH 1.5 OZ. ZINC COATING, ASTM A153, CLASS B2 (TWO (2) RODS IN C.M.U. AND ONE (1) ROD IN FACE BRICK), UNLESS NOTED OTHERWISE IN THE MASONRY SCHEDULE. REINFORCEMENT SHALL LAP AT CORNERS AND INTERSECTIONS.
      2. SOLID WALL REINFORCEMENT ALL WALLS AND PIERS SHALL HAVE TRUSS TYPE HORIZONTAL JOINT REINFORCEMENTS AT 16" ON CENTER CONSISTING OF TWO (2) 9 GAUGE RODS WITH 9 GAUGE CROSS TIES AT 8" ON CENTER, GALVANIZED WITH 1.5 OZ. ZINC COATING, ASTM A153, CLASS B2, UNLESS NOTED OTHERWISE IN THE MASONRY SCHEDULE. REINFORCEMENT SHALL LAP AT CORNERS AND INTERSECTIONS.
    - B. THE MINIMUM CLEAR DISTANCE BETWEEN PARALLEL BARS EXCEPT IN COLUMNS SHALL BE EQUAL TO THE NOMINAL DIAMETER OF THE BAR.
    - C. VERTICAL REINFORCEMENT SHALL BE LAP SPLICED A MINIMUM OF 40 BAR DIAMETER (1'-0 MINIMUM) WHERE REQUIRED.
    - D. ALL BARS SHALL BE COMPLETELY EMBEDDED IN MORTAR OR GROUT. ALL BARS SHALL HAVE A COVERAGE OF MASONRY NOT LESS THAN:
      - BARS LARGER THAN #5 - 2"
      - #5 BARS OR SMALLER - 1 1/2"
    - E. VERTICAL REINFORCEMENT OF AT LEAST ONE #5 BAR SHALL BE PROVIDED CONTINUOUSLY FROM SUPPORT TO SUPPORT AT EACH CORNER, AT EACH SIDE OF EACH OPENING AND AT THE ENDS OF WALLS.
    - F. HORIZONTAL REINFORCEMENT NOT LESS THAN ONE #5 BAR SHALL BE PROVIDED:
      1. AT THE BOTTOM AND TOP OF WALL OPENINGS AND SHALL EXTEND NOT LESS THAN 24 IN. NOR LESS THAN 40 BAR DIAMETERS PAST THE OPENING.
      2. CONTINUOUSLY AT STRUCTURALLY CONNECTED ROOF AND FLOOR LEVELS AND AT THE TOP OF WALLS, UNLESS OTHERWISE NOTED.
      3. AT THE BOTTOM OF THE WALL OR IN THE TOP OF THE FOUNDATIONS WHEN DOWELED TO THE WALL.
      4. AT MAXIMUM SPACING OF 10 FT. UNLESS UNIFORMLY DISTRIBUTED HORIZONTAL JOINT REINFORCEMENT IS PROVIDED. REINFORCEMENT AT THE TOP AND BOTTOM OF OPENINGS WHEN USED IN DETERMINING THIS MAXIMUM SPACING SHALL BE CONTINUOUS IN THE WALL.
11. PROVIDE ADEQUATE, TEMPORARY BRACING AS REQUIRED DURING CONSTRUCTION TO WITHSTAND LATERAL LOADS AND THE PRESSURES OF FLUID GROUT.
12. WALLS WHICH TERMINATE BELOW FLOOR SLABS OR BEAMS SHALL BE ANCHORED LATERALLY BY MEANS OF 3/8" DIAMETER PTA-420 ANCHORS BY HOHMANN & BARNARD, INC. SPACED EVERY 2'-0" ON CENTER UNLESS AN ALTERNATE ANCHORAGE DETAIL HAS BEEN INDICATED ON THE DRAWINGS. WALLS WHICH PASS BY FLOOR SLABS SHALL BE ANCHORED LATERALLY BY MEANS OF A 1/4" THICK, 1 AND 1/4" WIDE STEEL PLATE EMBEDDED IN CONCRETE AND SPACED EVERY 2'-0" ON CENTER. THE EMBEDDED END OF THE PLATE SHALL BE HOOKED 3".
13. CONCRETE MASONRY SHALL BE PROTECTED FROM ABSORBING MOISTURE AND WATER WHILE AT THE PLANT, DURING SHIPMENT AND AT THE SITE DURING CONSTRUCTION.
14. ANCHORS, WALL PLUGS, ACCESSORIES AND OTHER ITEMS TO BE BUILT IN SHALL BE INSTALLED AS THE MASONRY WORK PROGRESSES. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS.
15. ALL MASONRY WALLS SHALL BE ANCHORED TO THE FLOOR SLAB OR CURB WITH DOWELS #5 AT 16" ON CENTER UNLESS OTHERWISE SHOWN IN THE DRAWINGS. THESE BARS SHALL BE HOOKED AND EMBEDDED INTO THE CONCRETE AND EXTEND AT LEAST 1'-6" INTO THE MASONRY AND GROUTED SOLID.

DESIGN LOADS:

1. FLOOR LIVE LOADS:

LABORATORIES	100 PSF
ROOF MECHANICAL	100 PSF
ROOF	50 PSF
COMPUTER LAB	100 PSF
CORRIDORS	100 PSF
CORRIDORS ABOVE 1ST FLOOR	80 PSF
STAIRS	100 PSF
ASSEMBLY SPACE	100 PSF
LOBBIES AND FIRST FLOOR	100 PSF
YARD/SIDEWALK OVER MECH. ROOF	250 PSF
IMPACT LOADS:	
LOBBIES/OFFICES/CORRIDORS	2,000 #
SKYLIGHT/RIBS/ACCESSIBLE CEILING	200 #
SIDEWALK	8,000 #

2. ROOF SNOW LOAD (PER IBC-2003, REFER TO ASCE 7-02):

GROUND SNOW LOAD (PER IBC-2003/CBC)	30 PSF
FLAT ROOF SNOW LOAD (IN COMBINATION WITH DRIFT/SLIDING SNOW) (PF=0.7*CE*CT*I*PG)	23 PSF
MIN.FLAT ROOF SNOW LOAD (UNIFORM)	30 PSF
DRIFT-PEAK	30 PSF
SLIDING SNOW	12.5 PSF
CE	1.0
TERRAIN CATEGORY	B
PARTIALLY EXPOSED	
CT	1.0
Is	1.1
BUILDING CLASSIFICATION	III

3. DEAD LOADS:

A. FIRST FLOOR

REINFORCED CONCRETE	150 PCF
HUNG MECHANICAL AND ELECTRICAL	12 PSF
CEILING	5 PSF
PARTITIONS	15 PSF
FINISH	2 PSF
TOTAL	32 PSF + CONC + FINISH

B. SECOND FLOOR AND ABOVE

3" METAL DECK WITH 3-1/2" NORMAL WEIGHT CONCRETE	64 PSF
HUNG MECHANICAL AND ELECTRICAL	12 PSF
CEILING	5 PSF
PARTITIONS	15 PSF
FINISH	5 PSF
FIRE PROOFING (WHERE REQ'D.)	2 PSF
STEEL BEAM	5 PSF
TOTAL	108 PSF

C. SOIL/CONCRETE OF MECH. ROOF AT GRADE 450 PSF

4. LATERAL LOADS:

BUILDING CLASSIFICATION III

A. WIND LOAD (PER IBC-2003, ASCE 7-02) METHOD 2

V	110 MPH
LATERAL LOAD RESISTING SYSTEM P=QGCP-QH(GCPI)	
QZ=0.00256*KZ*KZT*V^2*I	33.6 PSF
EXPOSURE CATEGORY	C
Iw	1.15
PARTIALLY ENCLOSED GCpi	±0.55
Kd	0.85
Kz	1.11
Kzt	1.0
BASE SHEAR (SEE S002 FOR X/Y ORIENTATION):	
SOUTH WING X:	138K
SOUTH WING Y:	322K
NORTH WING X:	247K
NORTH WING Y:	163K

B. SEISMIC LOAD (PER IBC-2003)

SITE CLASS	D
Ss	0.243G
S1	0.062G
FA	1.6
FV	2.4
R (STRUCTURAL STEEL SYSTEMS, NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE)	3
SMS	0.389G
SM1	0.149G
SDS	0.259G
SD1	0.099G
SEISMIC USE GROUP	II
I	1.25
Cd	3
Wo	3
SEISMIC DESIGN CATEGORY	B
EQUIVALENT LATERAL FORCE PROCEDURE	
BASE SHEAR (SEE S002 FOR X/Y ORIENTATION):	
SOUTH WING X:	280K
SOUTH WING Y:	280K
NORTH WING X:	172K
NORTH WING Y:	152K

C. FLOOD LOADS

ZONE X: N/A

5. DESIGN CRITERIA FOR FRAMING SUPPORTING THE FACADE:
   - A. ALLOWABLE SUPERIMPOSED DEAD LOAD AND LIVE LOAD DEFLECTION FOR SPANDREL BEAMS SUPPORTING CURTAIN WALL OR BRICK IS 3/8" MAXIMUM VERTICALLY WITH ONE-STORY OF CURTAIN WALL OR BRICK DEAD LOAD.

Sheet List

Sheet Number	Sheet Name
S001	STRUCTURAL NOTES
S002	STRUCTURAL NOTES II
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S102	GROUND FLOOR PLAN
S103	SECOND FLOOR PLAN
S104	THIRD FLOOR PLAN
S105	FOURTH FLOOR MECHANICAL ATTIC
S106	ROOF PLAN
S201	FOUNDATION/CONCRETE DETAILS I
S202	FOUNDATION/CONCRETE DETAILS II
S203	FOUNDATION/CONCRETE DETAILS III
S301	COLUMN SCHEDULE
S302	BRACING ELEVATIONS I
S303	BRACING ELEVATIONS II
S304	BRIDGE SECTIONS
S305	BRIDGE AND CANOPY DETAILS
S401	METAL DECK DETAILS
S402	TYPICAL DETAILS I
S403	TYPICAL DETAILS II
S404	TYPICAL DETAILS III

drawing title: STRUCTURAL NOTES

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

volume: 1 of 2

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Gilsanz Murray Steficek LLP
129 West 27th St, Fifth Floor
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approved by: GS

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no.: 10125
project no.: BI-RS-283
drawing no.: S001

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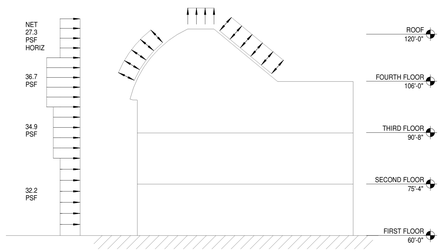
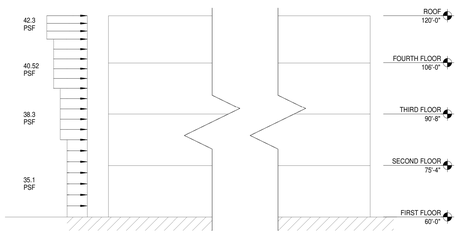


SOUTH WING MWFRS - Y DIRECTION
NORTH WING MWFRS - X DIRECTION



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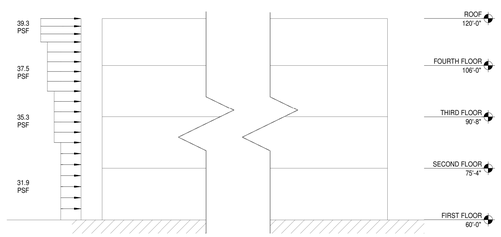


SOUTH WING MWFRS - X DIRECTION

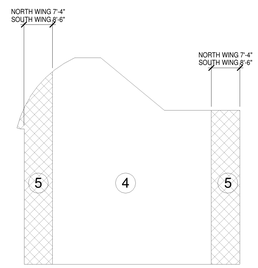
MAIN WIND FORCE RESISTING SYSTEM WIND LOADS

WALL COMPONENT AND CLADDING LOADS FOR HEIGHTS UP TO 46'			
ZONE	WIND AREA (Ft/2)	(+) PSF	(-) PSF
4	10	50.2	-53.5
4	20	48.6	-51.8
4	50	46.3	-49.6
4	100	44.4	-47.6
4	200	43.1	-46.3
4	500	40.5	-43.7
5	10	50.2	-63.2
5	20	48.6	-59.9
5	50	46.3	-55.1
5	100	44.4	-51.8
5	200	43.1	-48.6
5	500	40.5	-43.7

WALL COMPONENT AND CLADDING LOADS FOR HEIGHTS 46' - 65'			
ZONE	WIND AREA (Ft/2)	(+) PSF	(-) PSF
4	10	54.0	-57.7
4	20	52.2	-55.7
4	50	49.8	-53.3
4	100	47.7	-51.2
4	200	46.3	-49.8
4	500	43.5	-47.0
5	10	54.0	-67.9
5	20	52.2	-64.4
5	50	49.8	-59.2
5	100	47.7	-55.7
5	200	46.3	-52.2
5	500	43.5	-47.0

SLOPED ROOF COMPONENT AND CLADDING LOADS			
ZONE	WIND AREA (Ft/2)	(+) PSF	(-) PSF
2B	10	50.5	-60.9
2B	20	49.4	-59.2
2B	50	48.1	-55.7
2B	100	47.0	-54.0
2B	200	47.0	-54.0
2B	500	47.0	-54.0

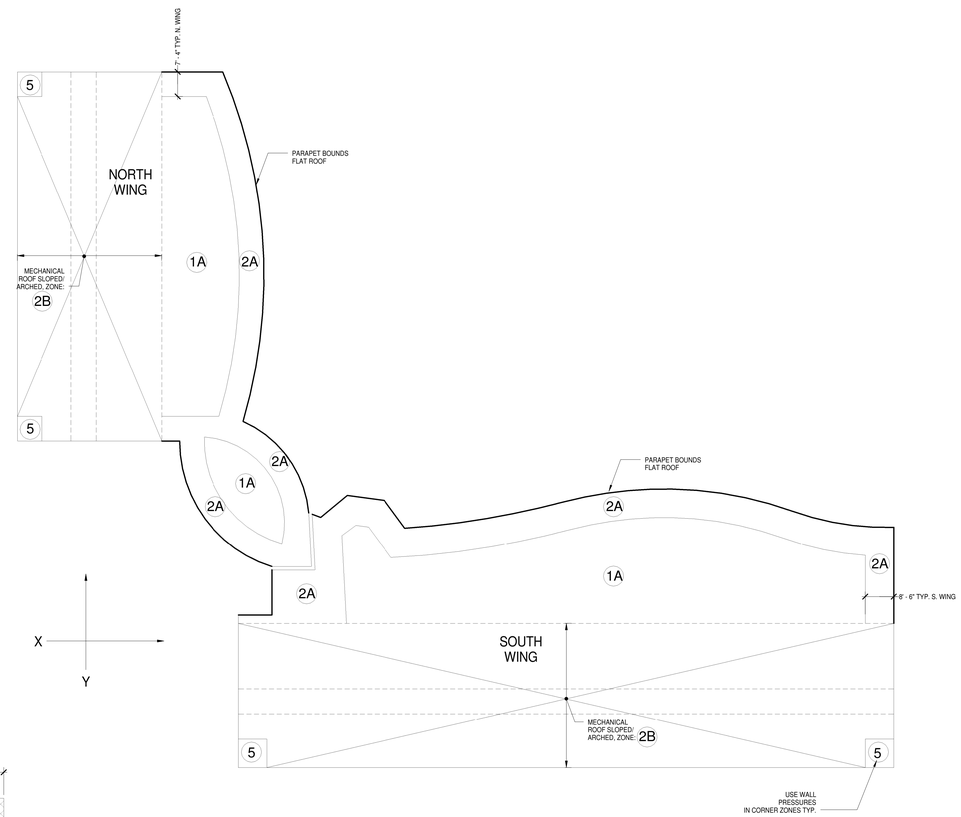
FLAT ROOF COMPONENT AND CLADDING LOADS			
ZONE	WIND AREA (Ft/2)	(+) PSF	(-) PSF
1A	10	29.6	-54.0
1A	20	28.6	-52.9
1A	50	27.2	-51.5
1A	100	26.1	-50.5
1A	200	26.1	-50.5
1A	500	26.1	-50.5
2A	10	29.6	-81.8
2A	20	28.6	-74.2
2A	50	27.2	-64.4
2A	100	26.1	-57.5
2A	200	26.1	-57.5
2A	500	26.1	-57.5



COMPONENTS AND CLADDING REGIONS NORTH WING - Y DIRECTION
COMPONENTS AND CLADDING REGIONS SOUTH WING - X DIRECTION

COMPONENTS AND CLADDING REGIONS NORTH WING - X DIRECTION

COMPONENTS AND CLADDING REGIONS NORTH WING - Y DIRECTION



COMPONENTS AND CLADDING WIND LOADS

drawing title
STRUCTURAL NOTES II

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STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

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project
SCSU NEW ACADEMIC LABORATORY BUILDING

CAD file: 10125
project no.: BI-RS-283

volume: 1 of 2
date: 11-21-2012
scale: As indicated
drawn by: Author
checked by: Checker
drawing no.: S002

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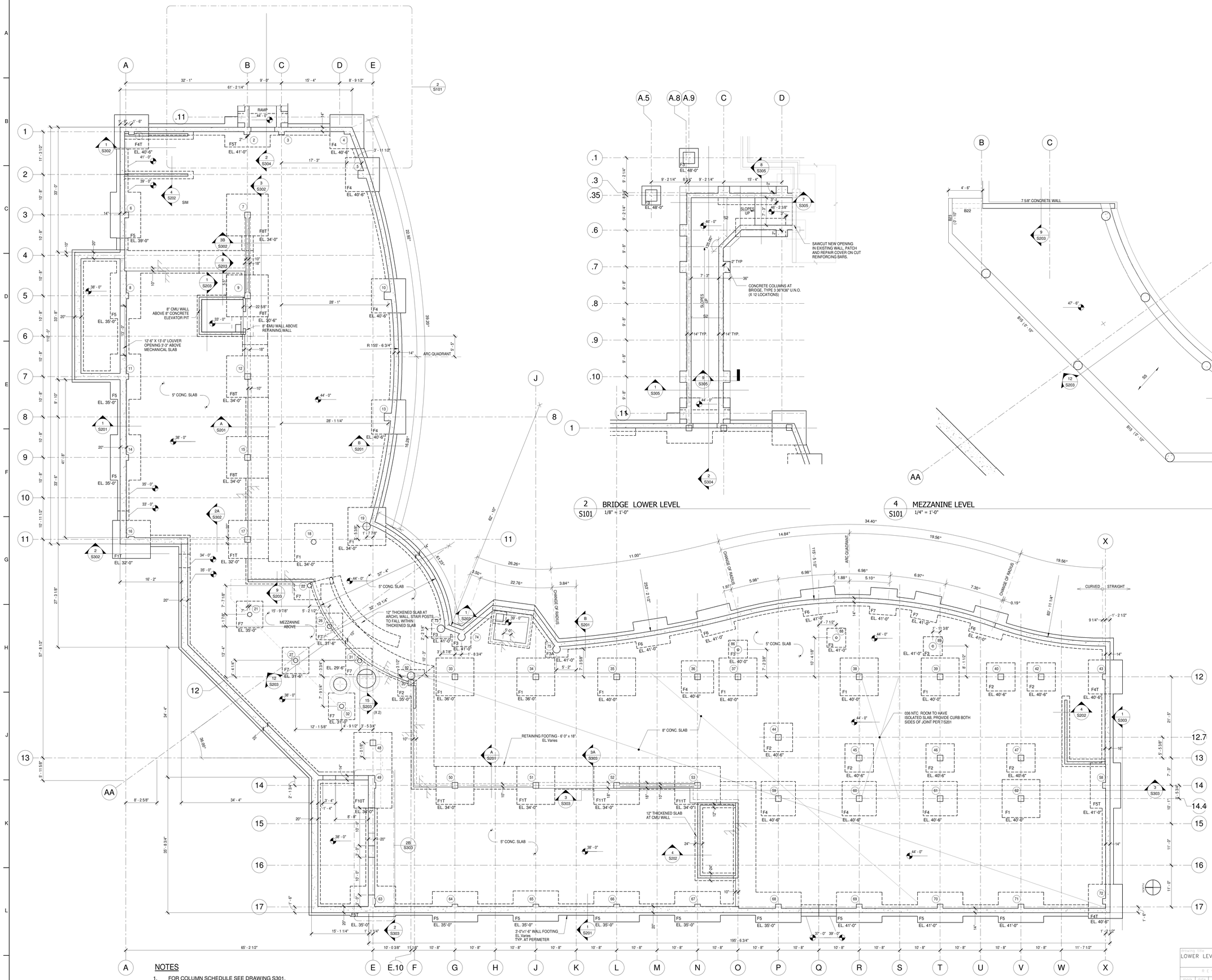
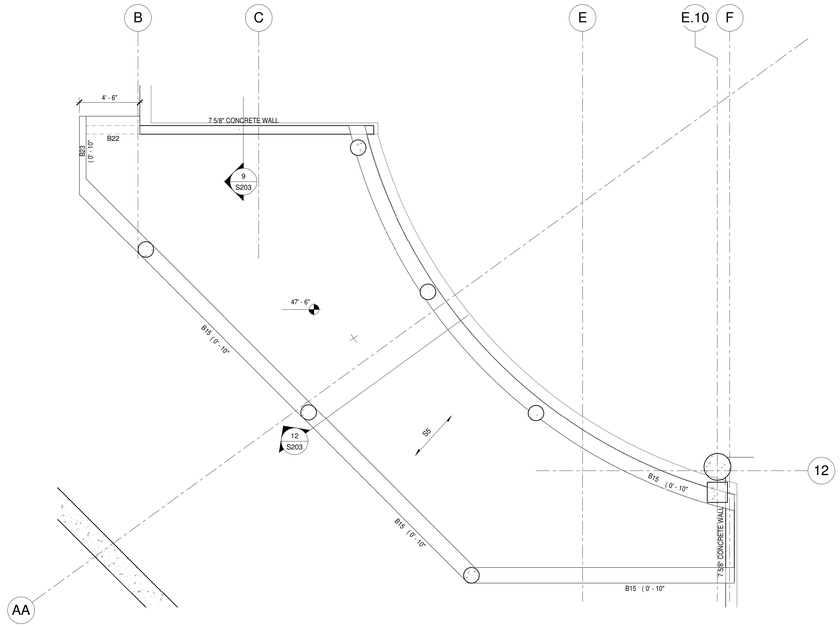


1 S101 LOWER LEVEL PLAN
1/8" = 1'-0"

2 S101 BRIDGE LOWER LEVEL
1/8" = 1'-0"



4 S101 MEZZANINE LEVEL
1/4" = 1'-0"

NOTES

1. FOR COLUMN SCHEDULE SEE DRAWING S301.
2. FOR TYPICAL CONCRETE DETAILS SEE SHEETS S201 THROUGH S203.
3. TOP OF STRUCTURAL SLAB TO BE ELEVATION 44'-0" U.N.O.
4. ALL FOOTING ELEVATIONS REFER TO BOTTOM OF FOOTING.
5. REFER TO MECHANICAL DRAWINGS FOR HOUSEKEEPING PAD LOCATIONS. SEE TYPICAL DETAIL 13/S201.
6. FOR DIMENSIONS NOT SHOWN REFER TO A107.

DRAWING TITLE: LOWER LEVEL FLOOR PLAN	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES
REVISIONS — mark / date / description: 11-21-2012 Bid Documents	DRAWING PREPARED BY: **Gilsanz Murray Steficek LLP**, 129 West 27th St, Fifth Floor, New York, NY 10001
project: SCSU NEW ACADEMIC LABORATORY BUILDING	CAD no. 10125 · project no. BI-RS-283
sheet no. 1 of 2 · date 11-21-2012 · scale As indicated · drawn by Author · chkd by Checker · drawing no. S101	

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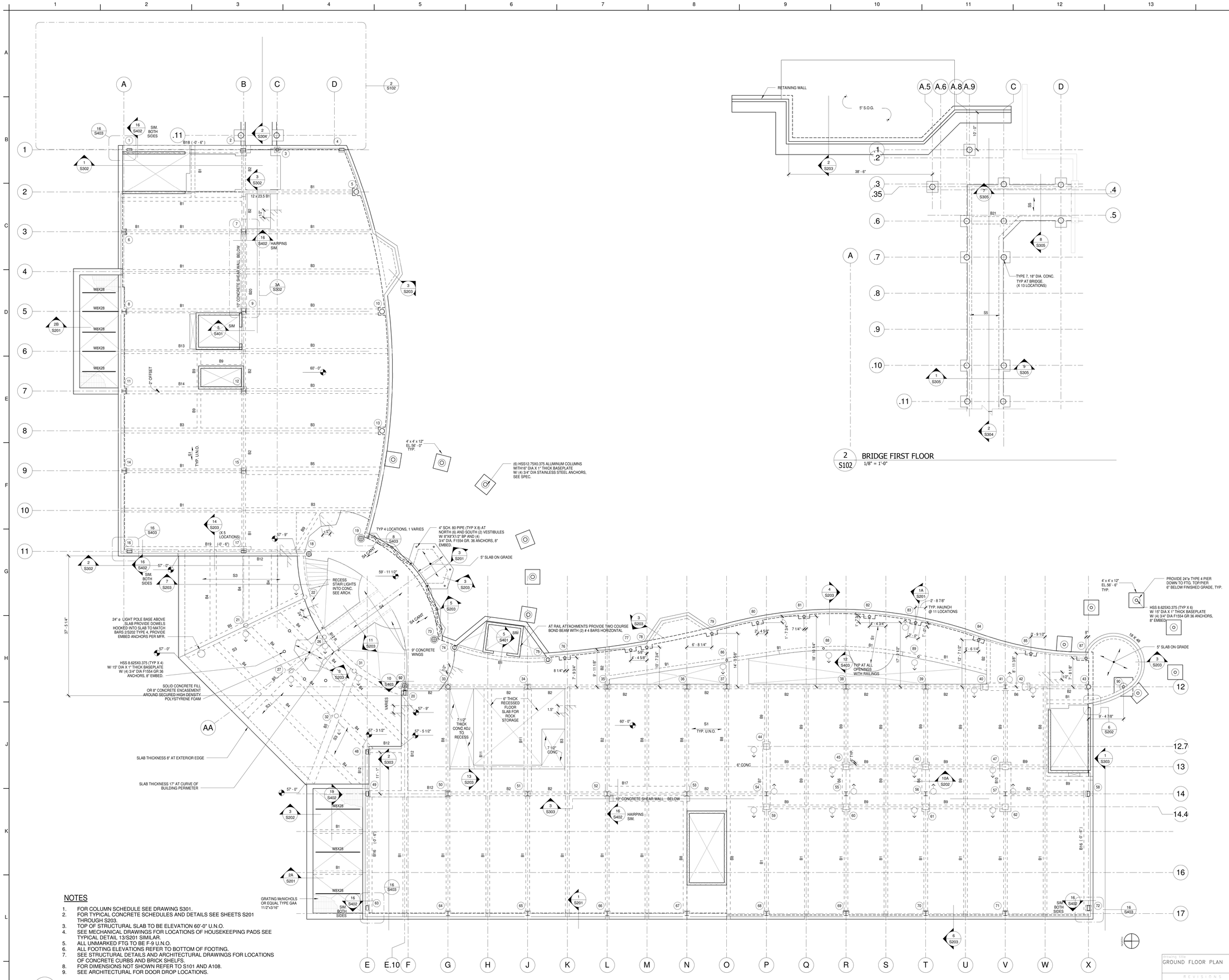

NOTES

1. FOR COLUMN SCHEDULE SEE DRAWING S301.
2. FOR TYPICAL CONCRETE SCHEDULES AND DETAILS SEE SHEETS S201 THROUGH S203.
3. TOP OF STRUCTURAL SLAB TO BE ELEVATION 60'-0" U.N.O.
4. SEE MECHANICAL DRAWINGS FOR LOCATIONS OF HOUSEKEEPING PADS SEE TYPICAL DETAIL 13/S201 SIMILAR.
5. ALL UNMARKED FTG TO BE F-9 U.N.O.
6. ALL FOOTING ELEVATIONS REFER TO BOTTOM OF FOOTING.
7. SEE STRUCTURAL DETAILS AND ARCHITECTURAL DRAWINGS FOR LOCATIONS OF CONCRETE CURBS AND BRICK SHELFS.
8. FOR DIMENSIONS NOT SHOWN REFER TO S101 AND A108.
9. SEE ARCHITECTURAL FOR DOOR DROP LOCATIONS.

1 / S102 FIRST FLOOR
1/8" = 1'-0"

2 / S102 BRIDGE FIRST FLOOR
1/8" = 1'-0"

drawing title	GROUND FLOOR PLAN
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STATE OF CONNECTICUT, DEPARTMENT OF CONSTRUCTION SERVICES	volume 1 of 2
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date	11-21-2012
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project	SCSU NEW ACADEMIC LABORATORY BUILDING
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CAD file	10125
project no.	BI-RS-283
drawing no.	S102

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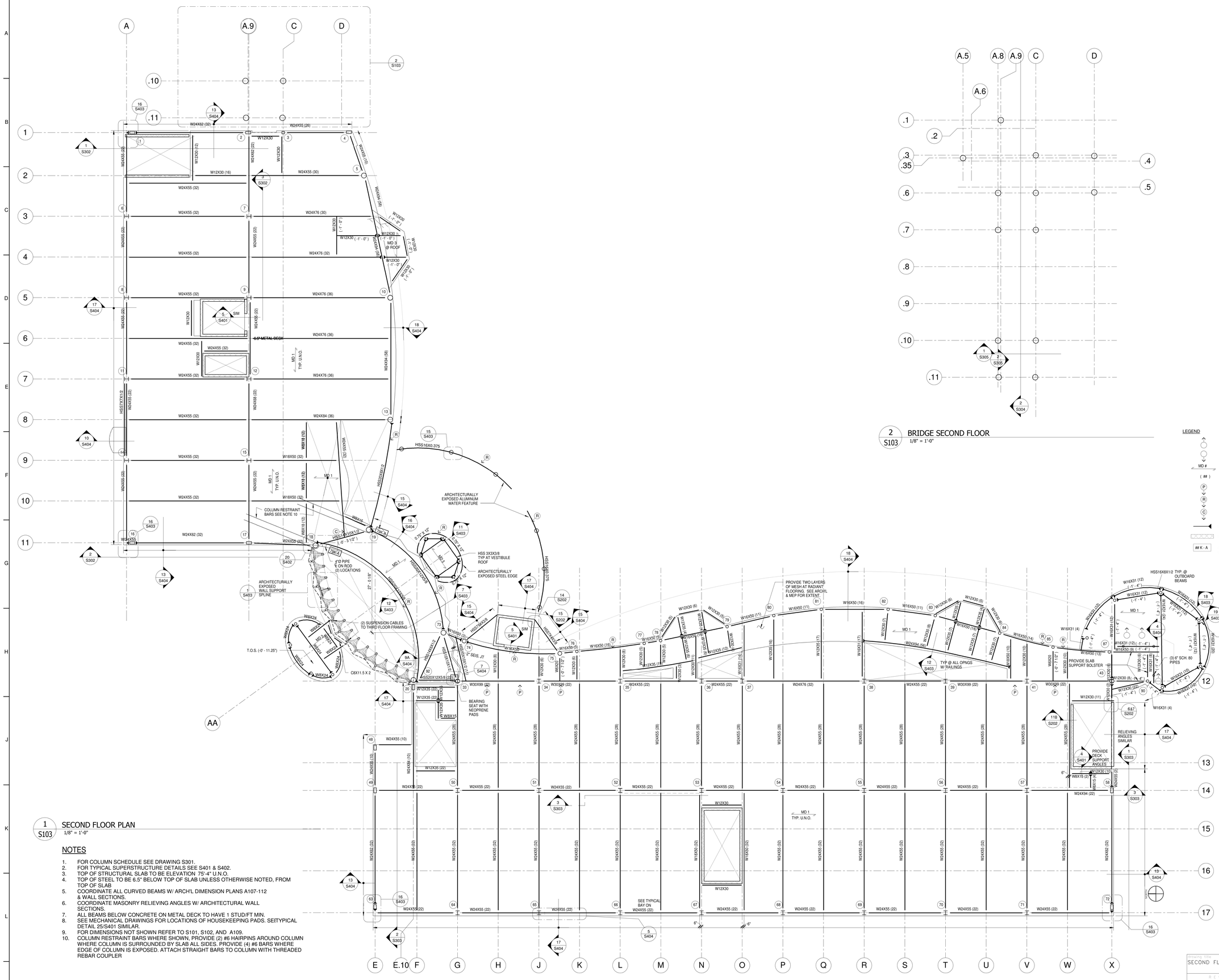

1 S103 SECOND FLOOR PLAN
1/8" = 1'-0"

2 S103 BRIDGE SECOND FLOOR
1/8" = 1'-0"

LEGEND

- COLUMN UP
- COLUMN DOWN
- MD # — INDICATES SPAN OF DECK, SEE SCHEDULE S202 FOR DECK TYPES
- (##) — INDICATES NUMBER OF SHEAR STUDS, SEE SCHEDULE S202 FOR STUD SIZES
- P — INDICATES BEAM PENETRATION
- R — INDICATES ROLLED BEAM
- C — INDICATES COPED BEAM END PENETRATION
- INDICATES MOMENT CONNECTION
- INDICATES CMU WALL
- ## K - A — INDICATES REQUIRED FACTORED AXIAL LOAD FOR CONNECTION DESIGN.

NOTES

1. FOR COLUMN SCHEDULE SEE DRAWING S301.
2. FOR TYPICAL SUPERSTRUCTURE DETAILS SEE S401 & S402.
3. TOP OF STRUCTURAL SLAB TO BE ELEVATION 75'-4" U.N.O.
4. TOP OF STEEL TO BE 6.5" BELOW TOP OF SLAB UNLESS OTHERWISE NOTED, FROM TOP OF SLAB
5. COORDINATE ALL CURVED BEAMS W/ ARCH'L DIMENSION PLANS A107-112 & WALL SECTIONS.
6. COORDINATE MASONRY RELIEVING ANGLES W/ ARCHITECTURAL WALL SECTIONS.
7. ALL BEAMS BELOW CONCRETE ON METAL DECK TO HAVE 1 STUD/FT MIN.
8. SEE MECHANICAL DRAWINGS FOR LOCATIONS OF HOUSEKEEPING PADS. SEITYPICAL DETAIL 25/S401 SIMILAR.
9. FOR DIMENSIONS NOT SHOWN REFER TO S101, S102, AND A109.
10. COLUMN RESTRAINT BARS WHERE SHOWN, PROVIDE (2) #6 HAIRPINS AROUND COLUMN WHERE COLUMN IS SURROUNDED BY SLAB ALL SIDES. PROVIDE (4) #6 BARS WHERE EDGE OF COLUMN IS EXPOSED. ATTACH STRAIGHT BARS TO COLUMN WITH THREADED REBAR COUPLER

drawing title: SECOND FLOOR PLAN	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		volume: 1 of 2
REVISIONS			
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			scale: As indicated
	project: SCSU NEW ACADEMIC LABORATORY BUILDING		drawn by: JM
			approved by: GS
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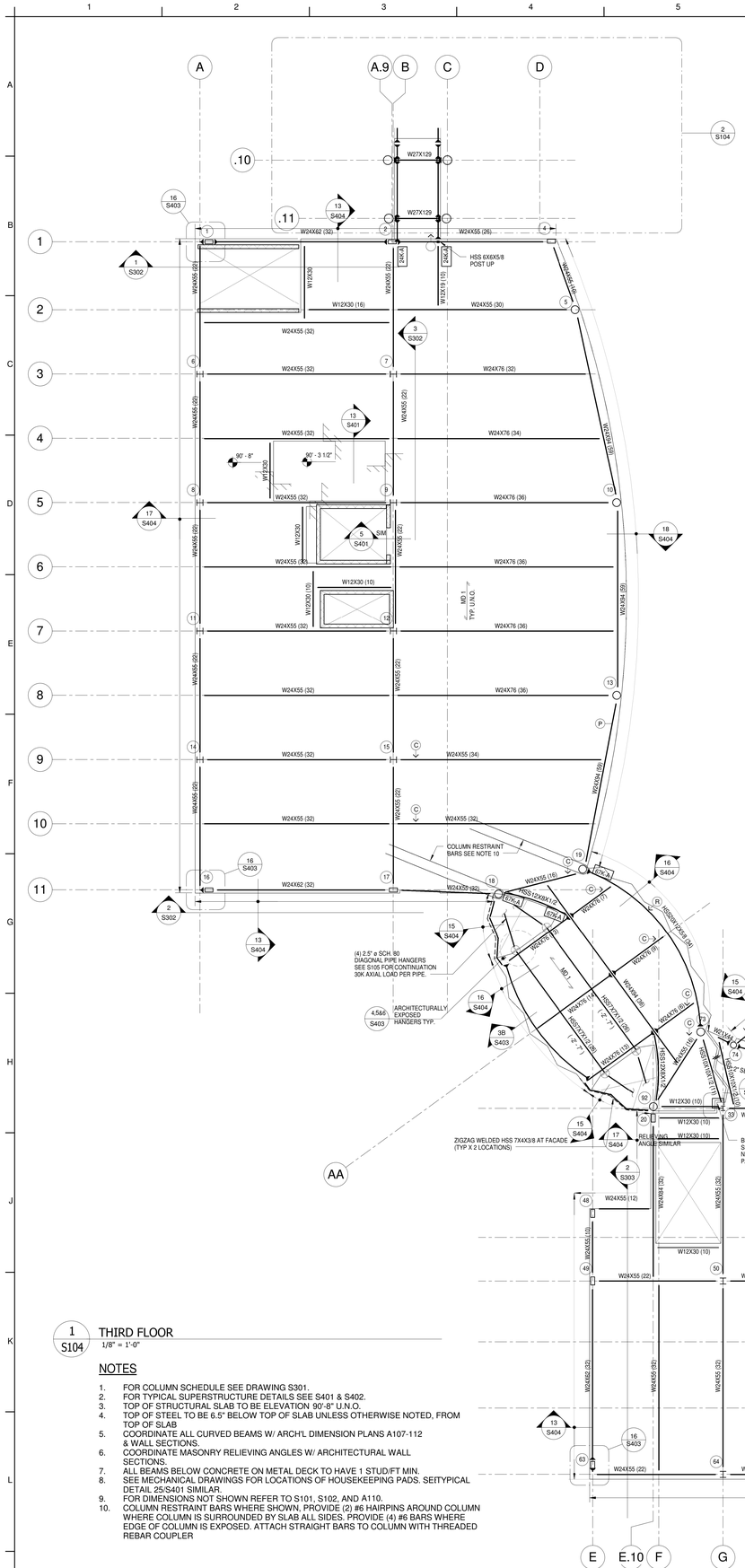
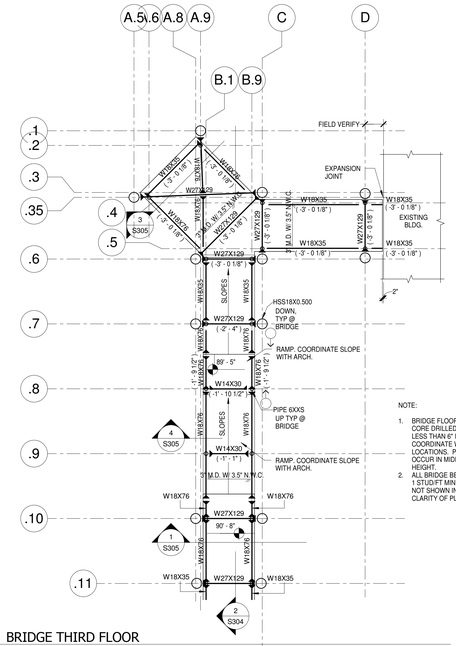


1 S104 THIRD FLOOR
1/8" = 1'-0"



2 S104 BRIDGE THIRD FLOOR
1/8" = 1'-0"

NOTES

1. FOR COLUMN SCHEDULE SEE DRAWING S301.
2. FOR TYPICAL SUPERSTRUCTURE DETAILS SEE S401 & S402.
3. TOP OF STRUCTURAL SLAB TO BE ELEVATION 90'-8" U.N.O.
4. TOP OF STEEL TO BE 6.5" BELOW TOP OF SLAB UNLESS OTHERWISE NOTED, FROM TOP OF SLAB
5. COORDINATE ALL CURVED BEAMS W/ ARCH'L DIMENSION PLANS A107-112 & WALL SECTIONS.
6. COORDINATE MASONRY RELIEVING ANGLES W/ ARCHITECTURAL WALL SECTIONS.
7. ALL BEAMS BELOW CONCRETE ON METAL DECK TO HAVE 1 STUD/FT MIN.
8. SEE MECHANICAL DRAWINGS FOR LOCATIONS OF HOUSEKEEPING PADS. SEITYPICAL DETAIL 25/S401 SIMILAR.
9. FOR DIMENSIONS NOT SHOWN REFER TO S101, S102, AND A110.
10. COLUMN RESTRAINT BARS WHERE SHOWN, PROVIDE (2) #6 HAIRPINS AROUND COLUMN WHERE COLUMN IS SURROUNDED BY SLAB ALL SIDES. PROVIDE (4) #6 BARS WHERE EDGE OF COLUMN IS EXPOSED. ATTACH STRAIGHT BARS TO COLUMN WITH THREADED REBAR COUPLER

LEGEND

- COLUMN UP
- COLUMN DOWN
- MD # — INDICATES SPAN OF DECK, SEE SCHEDULE S202 FOR DECK TYPES
- (##) — INDICATES NUMBER OF SHEAR STUDS, SEE SCHEDULE S202 FOR STUD SIZES
- P — INDICATES BEAM PENETRATION
- R — INDICATES ROLLED BEAM
- C — INDICATES COPED BEAM END PENETRATION
- INDICATES MOMENT CONNECTION
- INDICATES CMU WALL
- ## K - A — INDICATES REQUIRED FACTORED AXIAL LOAD FOR CONNECTION DESIGN.

drawing title: THIRD FLOOR PLAN

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Gilsanz Murray Steficek LLP
129 West 27th St, Fifth Floor
New York, NY 10001

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 10125 | project no. BI-RS-283

sheet no. 1 of 2
date 11-21-2012
scale As indicated
drawn by Author
checked by Checker
drawing no. S104

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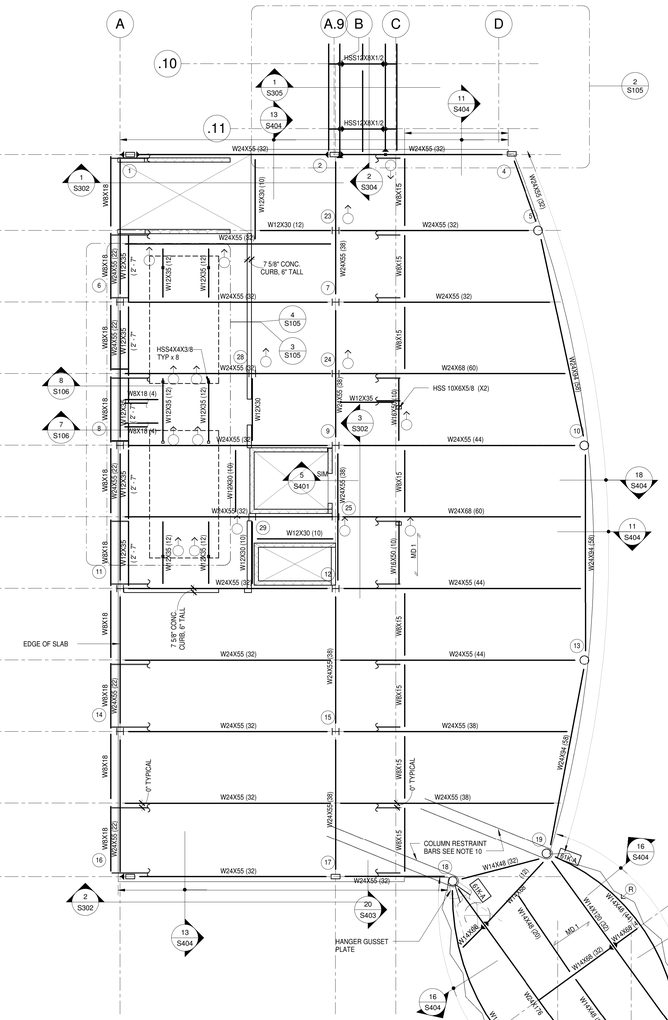
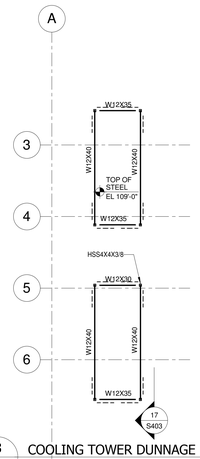
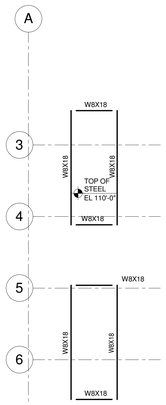


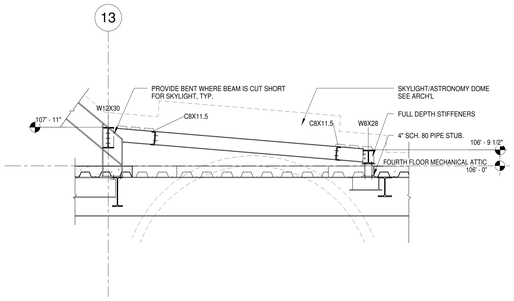
1 S105 FOURTH FLOOR MECHANICAL ATTIC
1/8" = 1'-0"



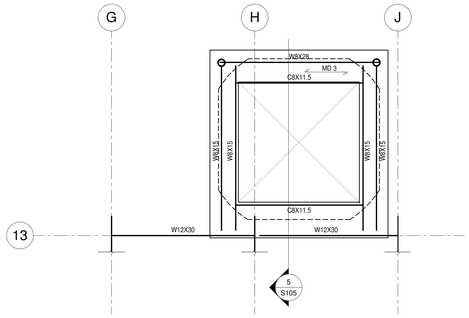
3 S105 COOLING TOWER DUNNAGE
1/8" = 1'-0"



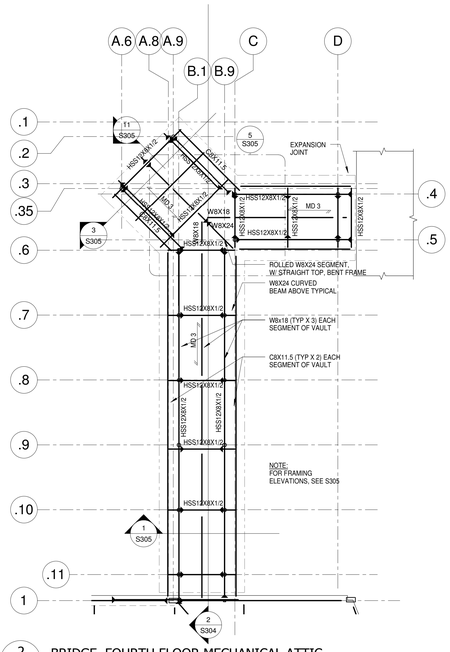
4 S105 2ND LAYER COOLING TOWER DUNNAGE
1/8" = 1'-0"



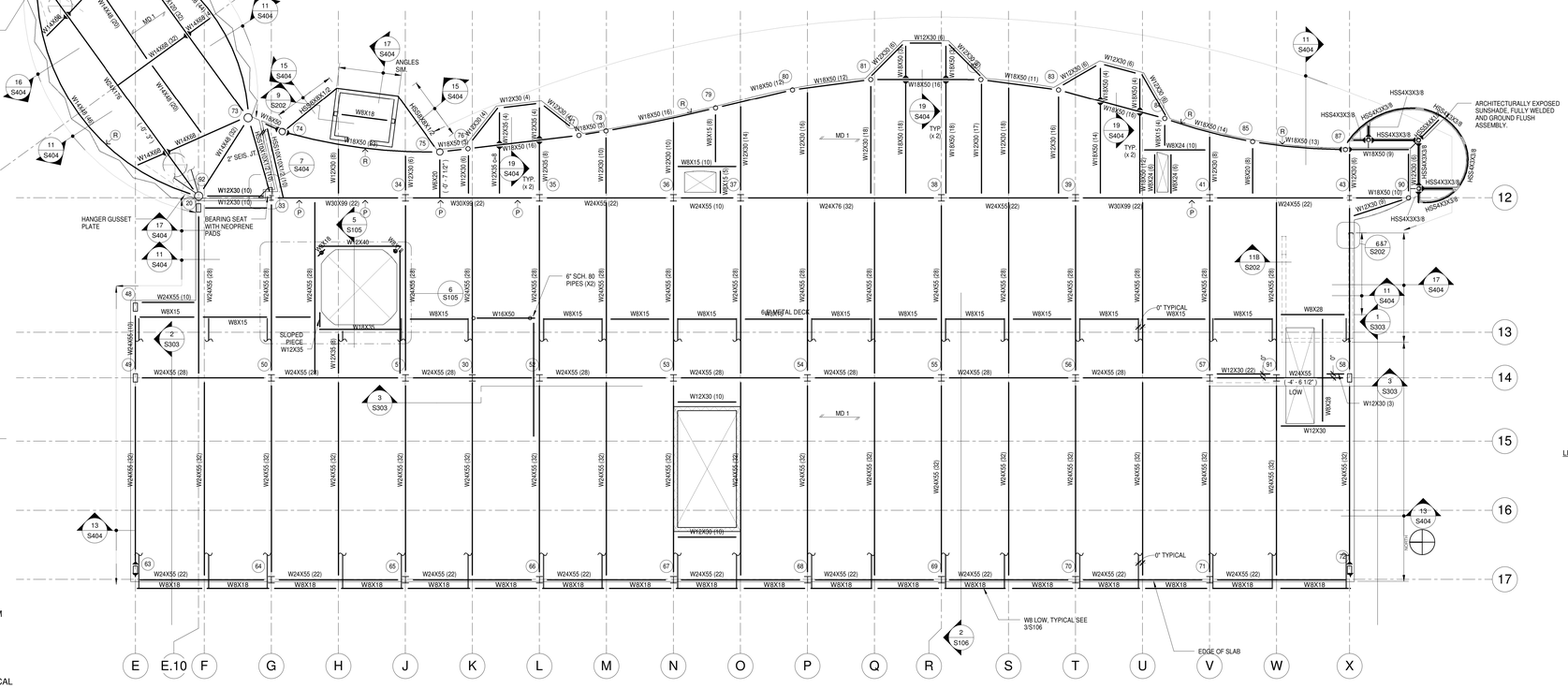
5 S105 SKYLIGHT SECTION
3/8" = 1'-0"



6 S105 SKYLIGHT FRAMING HIGH
1/4" = 1'-0"



2 S105 BRIDGE FOURTH FLOOR MECHANICAL ATTIC
1/8" = 1'-0"



NOTES

1. FOR COLUMN SCHEDULE SEE DRAWING S301.
2. FOR TYPICAL SUPERSTRUCTURE DETAILS SEE S401 & S402.
3. TOP OF STRUCTURAL SLAB TO BE ELEVATION 106'-0" U.N.O.
4. TOP OF STEEL TO BE 6.5" BELOW TOP OF SLAB UNLESS OTHERWISE NOTED, FROM TOP OF SLAB
5. COORDINATE ALL CURVED BEAMS W/ ARCH'L DIMENSION PLANS A107-112 & WALL SECTIONS.
6. COORDINATE MASONRY RELIEVING ANGLES W/ ARCHITECTURAL WALL SECTIONS.
7. ALL BEAMS BELOW CONCRETE ON METAL DECK TO HAVE 1 STUD/FT MIN.
8. SEE MECHANICAL DRAWINGS FOR LOCATIONS OF HOUSEKEEPING PADS. SEITYPICAL DETAIL 25/S401 SIMILAR.
9. FOR DIMENSIONS NOT SHOWN REFER TO S101, S102, AND A111.
10. COLUMN RESTRAINT BARS WHERE SHOWN, PROVIDE (2) #6 HAIRPINS AROUND COLUMN WHERE COLUMN IS SURROUNDED BY SLAB ALL SIDES. PROVIDE (4) #6 BARS WHERE EDGE OF COLUMN IS EXPOSED. ATTACH STRAIGHT BARS TO COLUMN WITH THREADED REBAR COUPLER

LEGEND

- COLUMN UP
- COLUMN DOWN
- MD # — INDICATES SPAN OF DECK, SEE SCHEDULE S202 FOR DECK TYPES
- (##) — INDICATES NUMBER OF SHEAR STUDS, SEE SCHEDULE S202 FOR STUD SIZES
- (P) — INDICATES BEAM PENETRATION
- (R) — INDICATES ROLLED BEAM
- (G) — INDICATES COPED BEAM END PENETRATION
- INDICATES MOMENT CONNECTION
- INDICATES CMU WALL
- ## K - A — INDICATES REQUIRED FACTORED AXIAL LOAD FOR CONNECTION DESIGN.

project title: FOURTH FLOOR MECHANICAL ATTIC — TEASTIRS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		sheet 1 of 2
mark / date / description: 11-21-2012 Bid Documents	DRAWING PREPARED BY: Gilsanz Murray Steficek LLP, 129 West 27th St, Fifth Floor, New York, NY 10001		11-21-2012
	project: SCSU NEW ACADEMIC LABORATORY BUILDING		scale: As indicated
			drawn by: Author
			checked by: Checker
	CAD no. 10125	project no. BI-RS-283	S105

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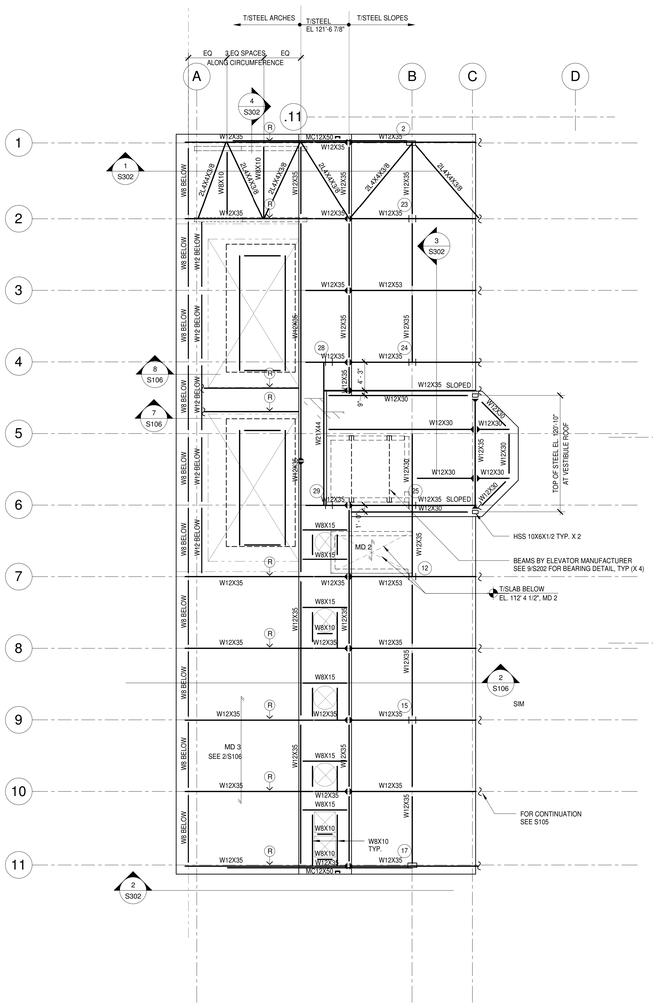
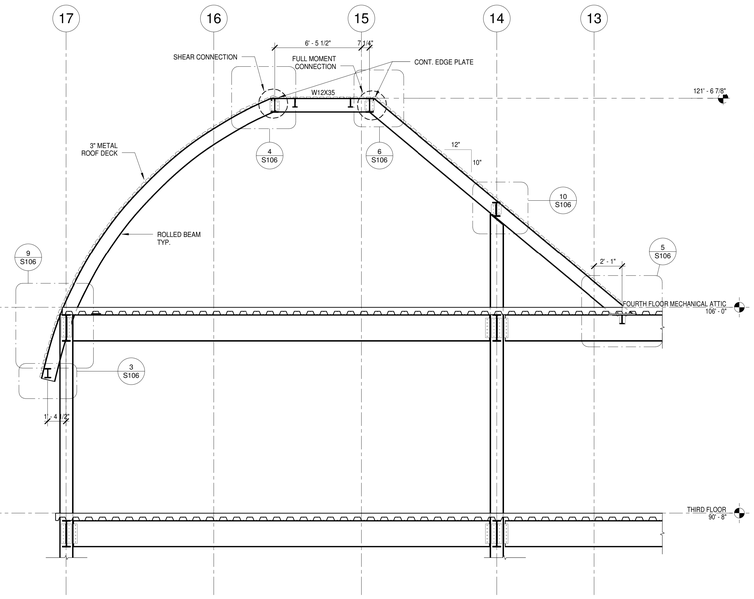
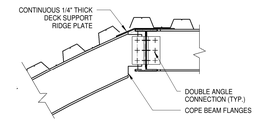


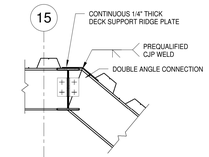
1 S106 ROOF
1/8" = 1'-0"



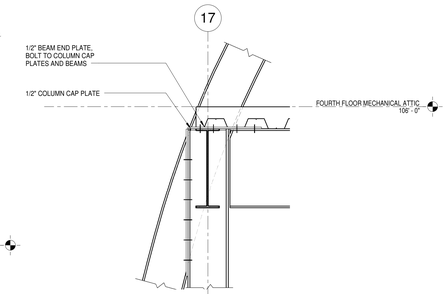
2 S106 TYPICAL SECTION THRU MECHANICAL ATTIC
1/4" = 1'-0"



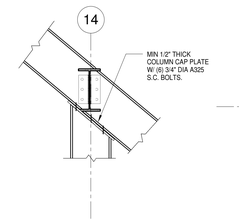
4 S106 TYP. SHEAR CONN. AT MECH. ROOF
3/4" = 1'-0"



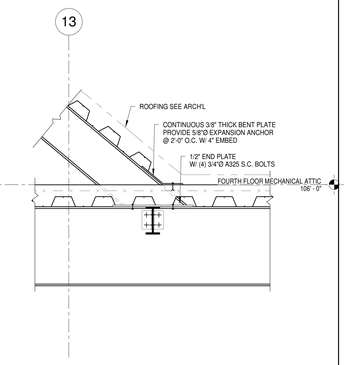
6 S106 TYP. MOMENT CONN. AT MECH. ROOF
3/4" = 1'-0"



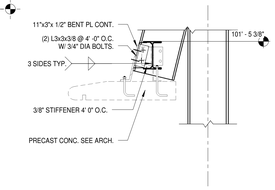
9 S106 SECTION OF MECH. ATTIC ROOF AT COL
3/4" = 1'-0"



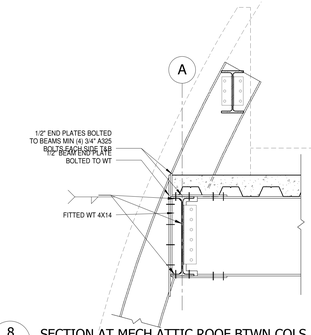
10 S106 TOP OF COLUMN AT MECH. ATTIC SLOPE
3/4" = 1'-0"



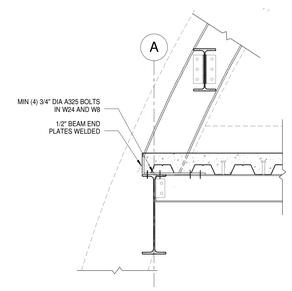
5 S106 TYPICAL BASE OF SLOPED ROOF BEAM
3/4" = 1'-0"



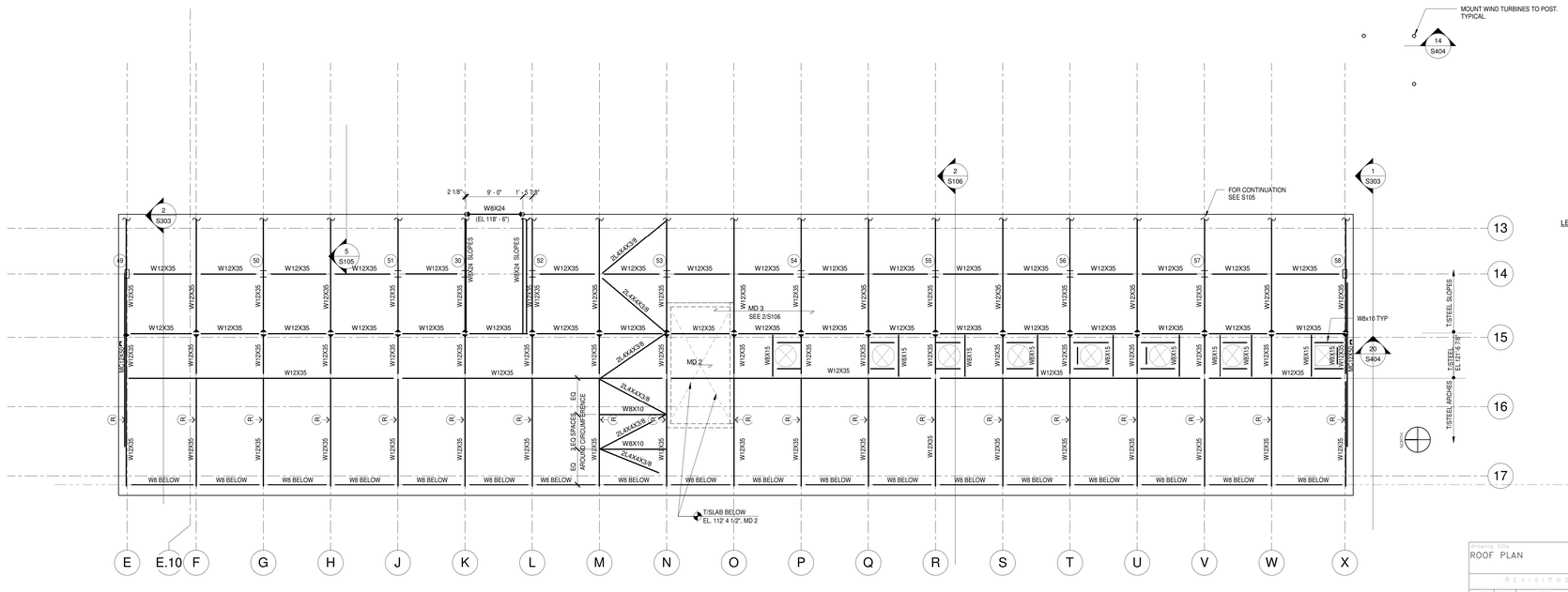
3 S106 PRECAST SUPPORT AT ROOF EDGE
3/4" = 1'-0"



8 S106 SECTION AT MECH ATTIC ROOF BTWN COLS
3/4" = 1'-0"



7 S106 SECTION AT MECH ATTIC ROOF BTWN CHILLERS
3/4" = 1'-0"



LEGEND

- COLUMN UP
- COLUMN DOWN
- MD # — INDICATES SPAN OF DECK, SEE SCHEDULE S202 FOR DECK TYPES
- (##) — INDICATES NUMBER OF SHEAR STUDS, SEE SCHEDULE S202 FOR STUD SIZES
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- INDICATES MOMENT CONNECTION
- INDICATES CMU WALL
- ## K - A — INDICATES REQUIRED FACTORED AXIAL LOAD FOR CONNECTION DESIGN.

NOTES

1. FOR COLUMN SCHEDULE SEE DRAWING S301.
2. FOR TYPICAL SUPERSTRUCTURE DETAILS SEE S401 & S402.
3. COORDINATE ALL CURVED BEAMS W/ ARCH'L DIMENSION PLANS A107-112 & WALL SECTIONS.
4. COORDINATE MASONRY RELIEVING ANGLES W/ ARCHITECTURAL WALL SECTIONS.
5. FOR DIMENSIONS NOT SHOWN REFER TO S101, S102, AND A112.

drawing title	ROOF PLAN
REVISIONS	mark / date / description: 11-21-2012 Bid Documents
STATE OF CONNECTICUT	DEPARTMENT OF CONSTRUCTION SERVICES
DRAWING PREPARED BY	Gilsanz Murray Steficek LLP, 129 West 27th St, Fifth Floor, New York, NY 10001
project	SCSU NEW ACADEMIC LABORATORY BUILDING
CAD file	10125
project no.	BI-RS-283
volume	1 of 2
date	11-21-2012
scale	As indicated
drawn by	Author
checked by	Checker
drawing no.	S106

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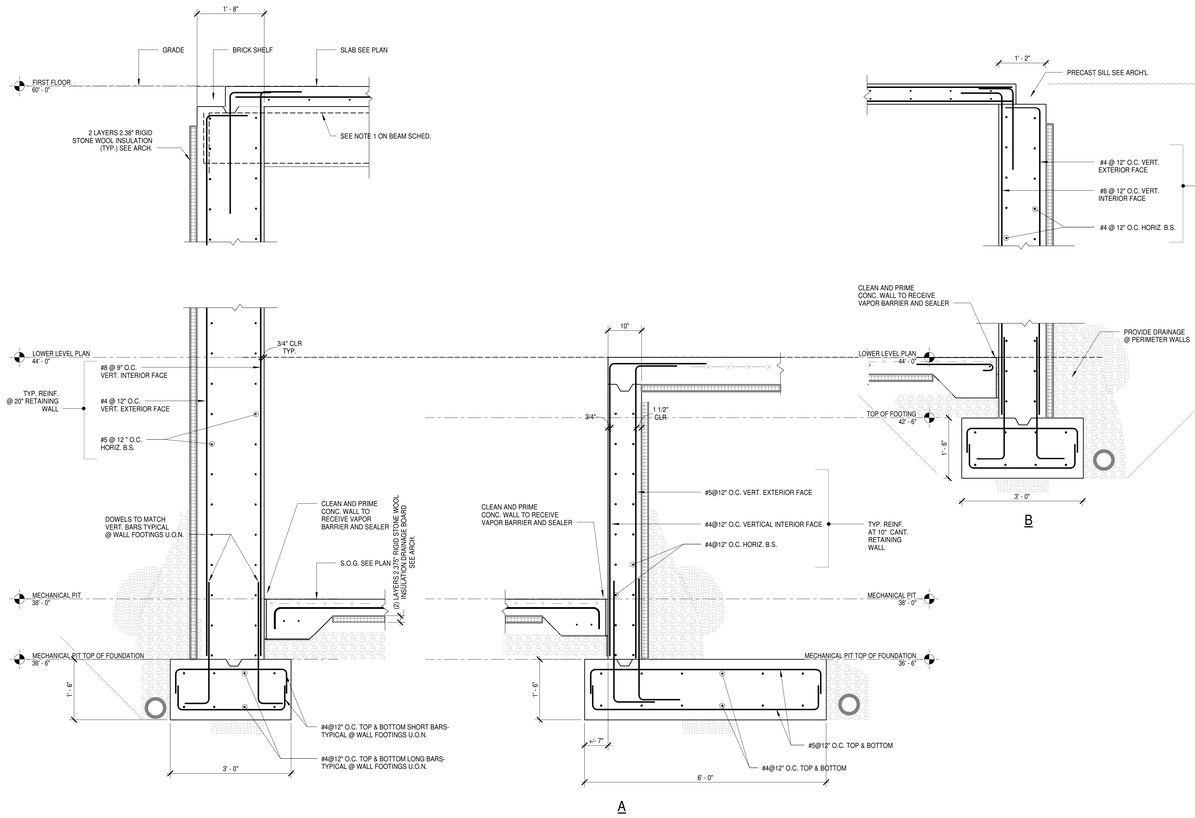
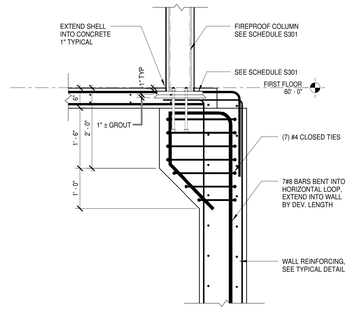
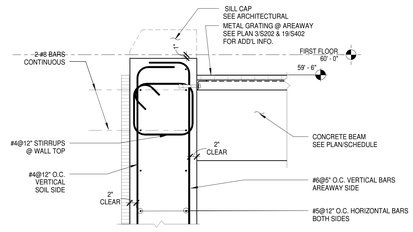


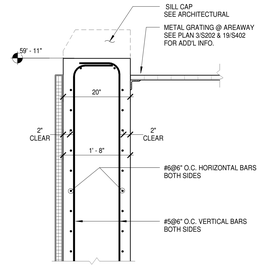
1 S201 RETAINING WALL SECTIONS
3/4" = 1'-0"



1A S201 WALL CORBEL DETAIL
3/4" = 1'-0"

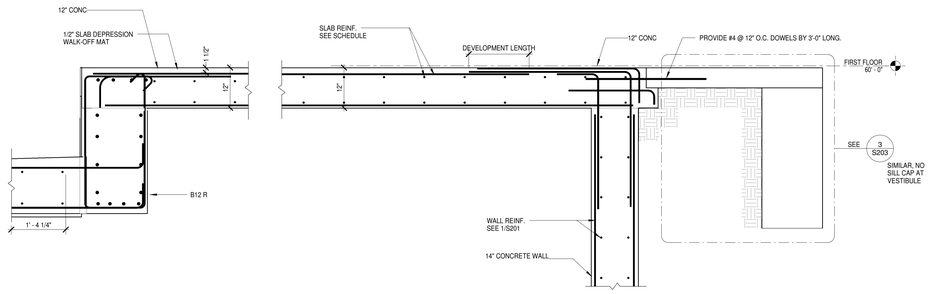


2A S201 SOUTH WING AREAWAY
3/4" = 1'-0"

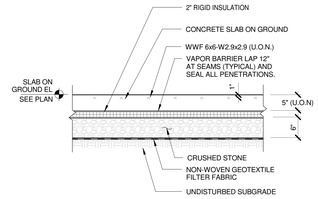


NOTE: HORIZONTAL BARS ARE EXTERIOR AT NORTH WING AREAWAY. ATYPICAL CONDITION.

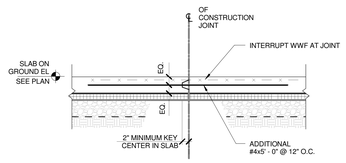
2B S201 NORTH WING AREAWAY
3/4" = 1'-0"



3 S201 SECTION AT KNUCKLE ENTRANCE
3/4" = 1'-0"

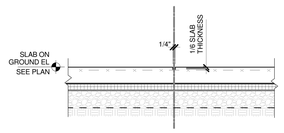


4 S201 FOUNDATIONS SLAB ON GROUND
3/4" = 1'-0"



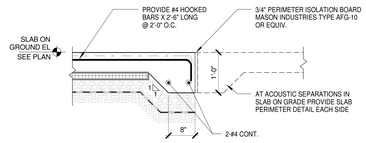
NOTES:
1 SEE TYPICAL SLAB ON GROUND DETAIL FOR ADDITIONAL INFORMATION.
2 SUBMIT PROPOSED CONSTRUCTION AND/OR SAW CUT FOR REVIE MAXIMUM JOINT SPACING IS 20' IN EACH DIRECTION.
3 PROVIDE ADDITIONAL DIAGONAL BAR AT RE-ENTRANT CORNERS #4x5' - 0" LONG.

5 S201 FOUNDATIONS SLAB ON GROUND CONSTRUCTION JOINT
3/4" = 1'-0"



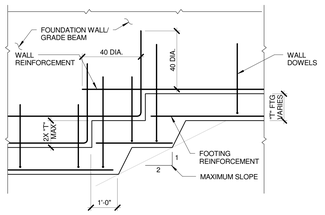
NOTES:
1 SEE TYPICAL SLAB ON GROUND DETAIL FOR ADDITIONAL INFORMATION.
2 SUBMIT PROPOSED CONSTRUCTION AND/OR SAW CUT FOR REVIEW. MAX. JOINT SPACING IS 20' IN EACH DIRECTION.
3 SAW-CUTTING SHALL BE CARRIED OUT AS SOON AS PRACTICABLE AND NO LATER THAN WITHIN 48 HOURS OF PLACING CONCRETE.
4 AFTER THE SLAB IS 30 DAYS OLD REMOVE ALL DEBRIS FROM THE SAW CUTS AND FILL WITH SAND/CEMENT MORTAR CONTAINING A LATEX BONDING AGENT, OR AS NOTED IN SPECIFICATIONS.

6 S201 FOUNDATIONS SLAB ON GROUND SAW CUT JOINT
3/4" = 1'-0"

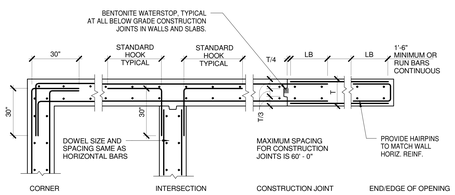


NOTE:
SEE TYPICAL SLAB ON GROUND DETAIL FOR ADDITIONAL INFORMATION.

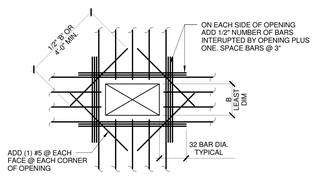
7 S201 FOUNDATIONS SLAB PERIMETER
3/4" = 1'-0"



8 S201 FOUNDATIONS STEPPED FOOTING/GRADE BEAM
1/2" = 1'-0"

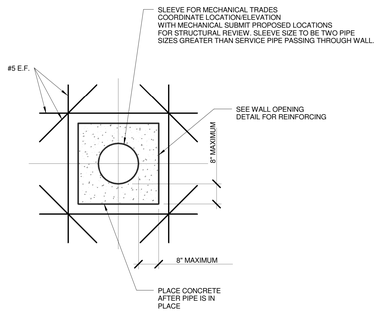


9 S201 FOUNDATIONS WALL CONSTRUCTION JOINT REINFORCEMENT-DOUBLE LAYER REINF
1/2" = 1'-0"

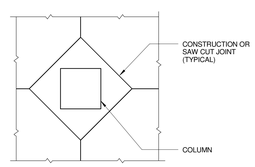


NOTE:
* MAX. OPENING SIZE 4'-0"x4'-0" (U.O.N.)

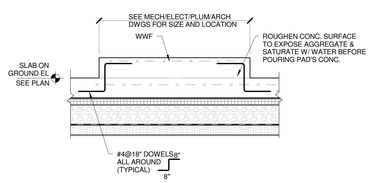
10 S201 FOUNDATIONS WALL OPENING
1/2" = 1'-0"



11 S201 FOUNDATIONS BOXED OPENING IN FOUNDATION WALL
3/4" = 1'-0"



12 S201 FOUNDATIONS SAW CUT JOINTS AT COLUMN
1/2" = 1'-0"



NOTE:
SEE TYPICAL SLAB ON GROUND DETAIL FOR ADDITIONAL INFORMATION.

13 S201 FOUNDATIONS CONCRETE PAD
3/4" = 1'-0"

project: FOUNDATION/CONCRETE DETAILS I

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Gilsanz Murray Steficek LLP
129 West 27th St, Fifth Floor
New York, NY 10001

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 10125 | project no. BI-RS-283

sheet no. 1 of 2
date 11-21-2012
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Checker
drawing no. S201

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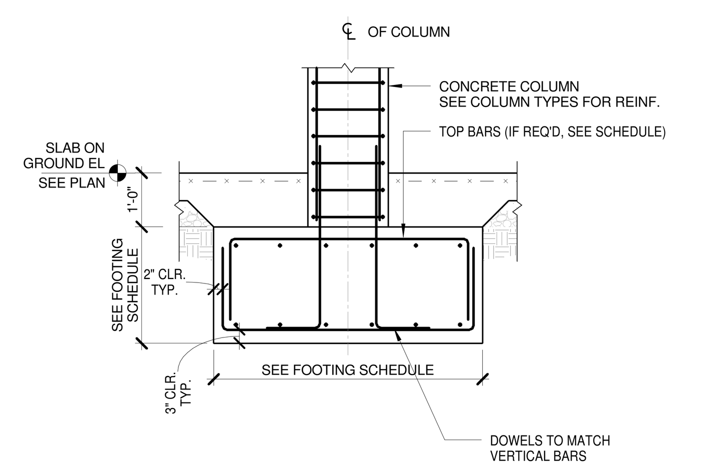
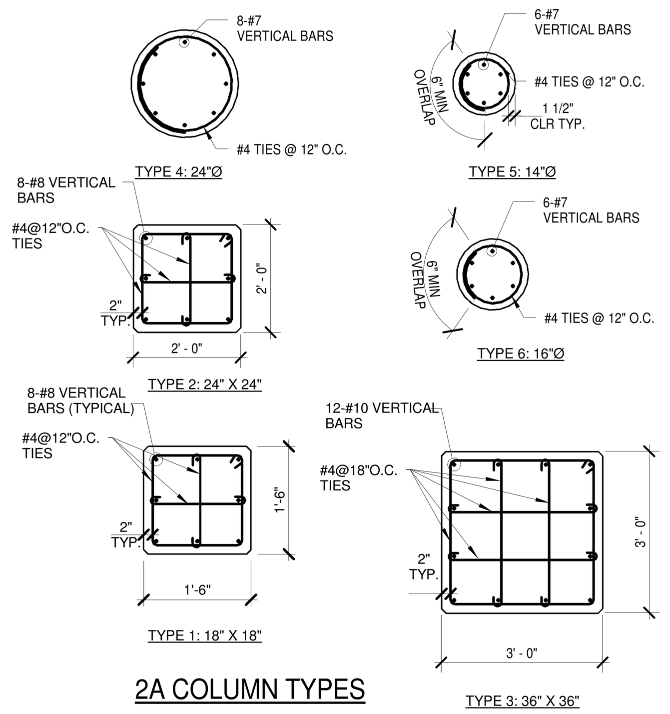
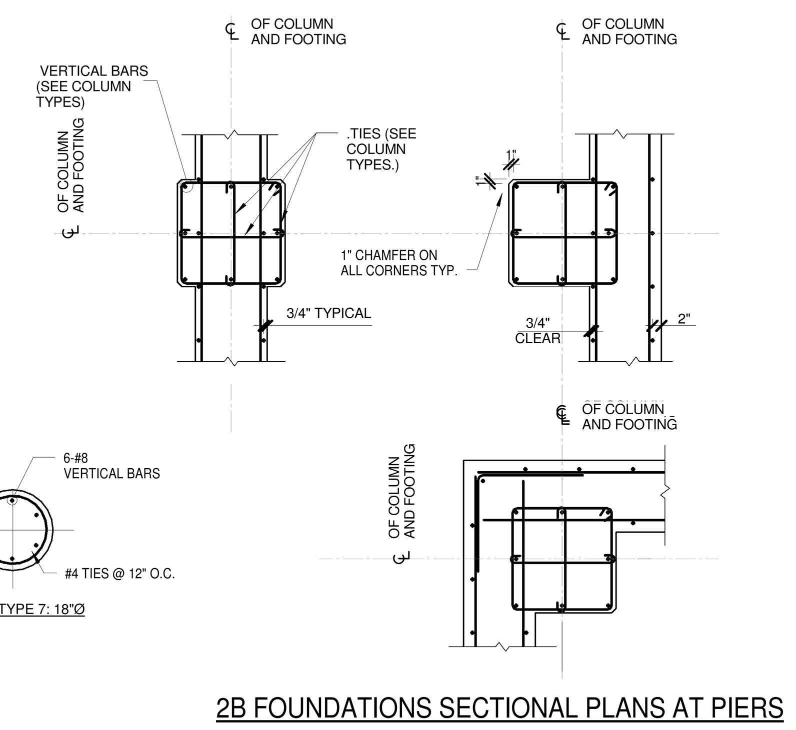
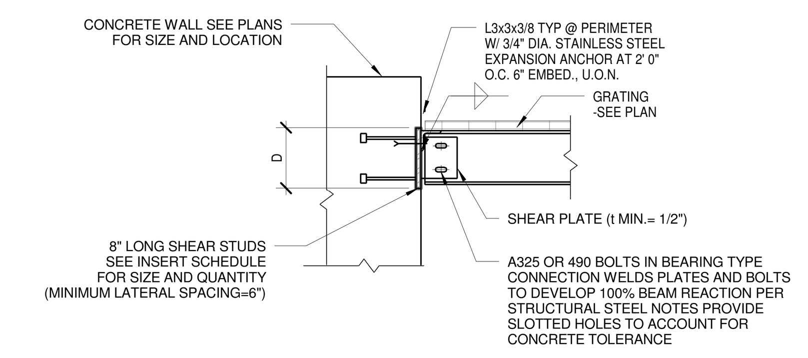


1 S202 FOUNDATIONS INTERIOR FOOTING
1/2" = 1'-0"





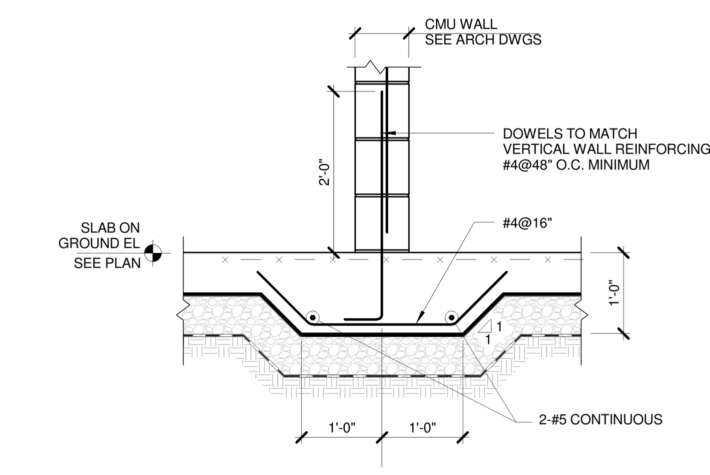
2 S202 COLUMN TYPES AND FNDN SECTIONAL PLANS AT PIERS
1/2" = 1'-0"



INSERT SCHEDULE			
BEAM SIZE	CAPACITY (KIPS)	SIZE AND QUANTITY OF B SHEAR STUDS	PLATE SIZE txWxD
W8	15	4-5/8" Ø	1/2"x12"x1'-2"

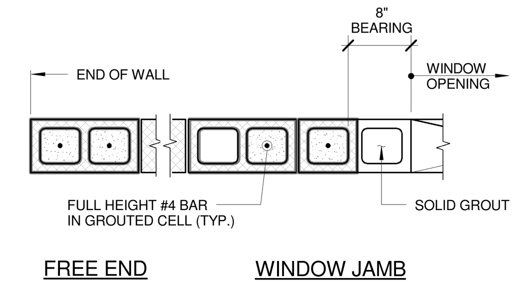
NOTE: ALL STEEL & EMBEDMENTS EXPOSED TO WEATHER TO BE HOT DIP GALVANIZED OR STAINLESS STEEL.

3 S202 FOUNDATIONS EMBEDMENT PLATE
3/4" = 1'-0"

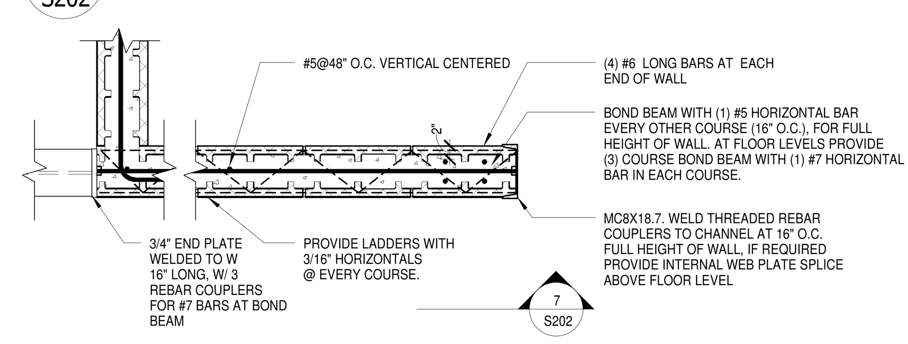


NOTES:
1. SEE TYPICAL SLAB ON GROUND DETAIL FOR ADDITIONAL INFORMATION.
2. ALSO PROVIDE THICKENED SLAB UNDER CURTAIN WALL.

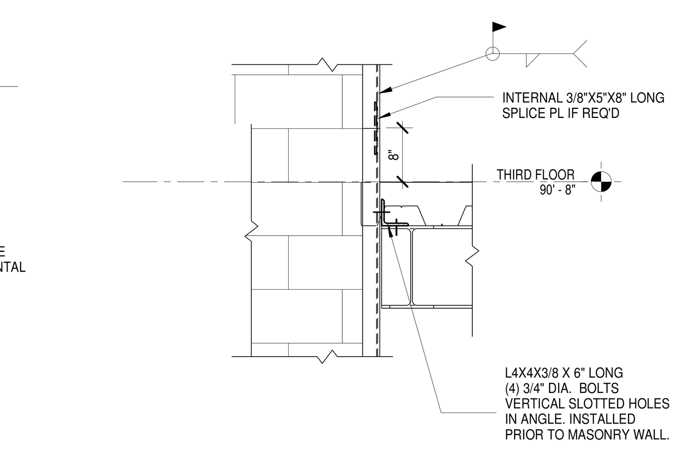
4 S202 FOUNDATIONS THICKENED SLAB UNDER CMU WALL
3/4" = 1'-0"



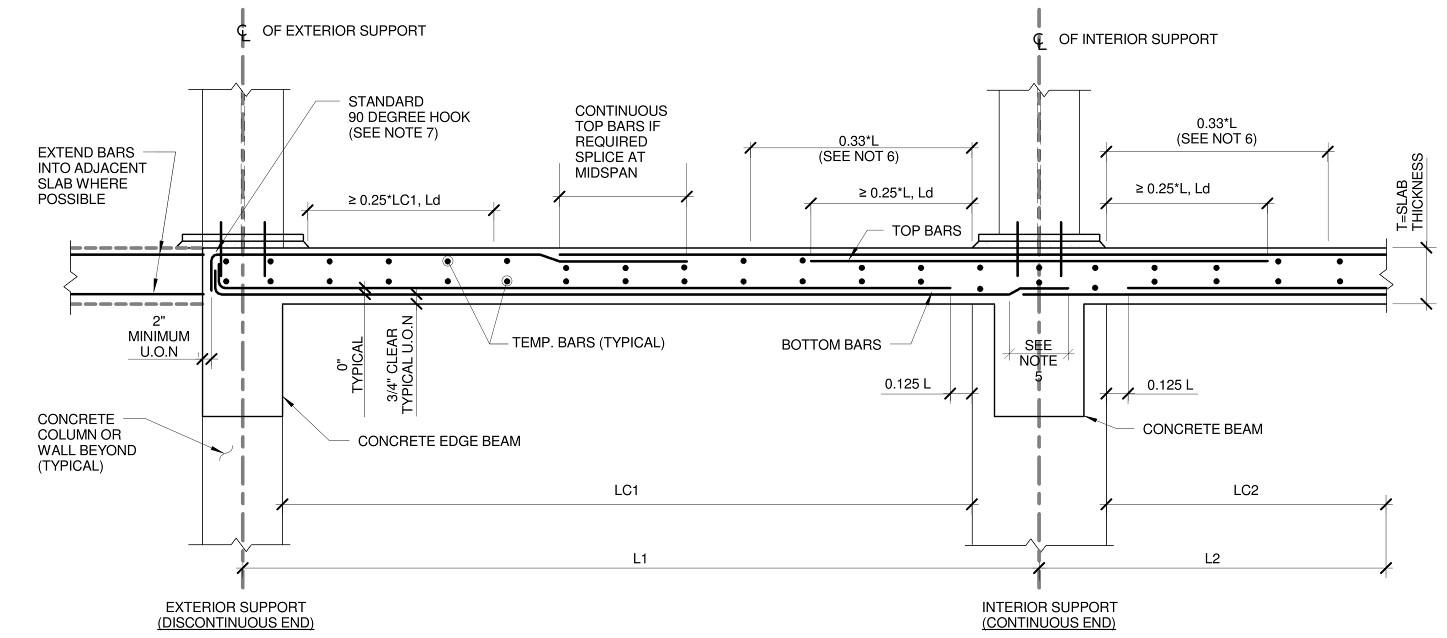
5 S202 CMU WALL PLAN DETAIL
3/4" = 1'-0"



6 S202 CMU WALL REINFORCING AT PERIMETER WALL
3/4" = 1'-0"

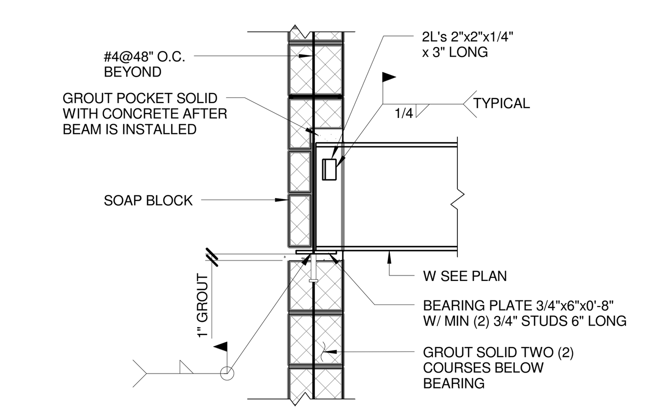


7 S202 CMU WALL SUPPORT AT MC
3/4" = 1'-0"



NOTES:
1 LC1, LC2 = LENGTH OF CLEAR SPANS 1, 2 (FROM FACE TO FACE OF SUPPORT)
2 L=THE GREATER LENGTH OF CLEAR SPAN LC1 OR LC2
3 AT INTERIOR SUPPORT (CONTINUOUS END) PROVIDE LARGER SIZE AND NUMBER OF TOP BARS FROM ADJACENT SPANS AS PER THE SLAB SCHEDULE
4 A MINIMUM OF TWO BOTTOM BARS SHALL TERMINATE WITH HOOKS INTO EXTERIOR COLUMNS AND CONTINUE THROUGH OR TENSION LAP (CLASS A) AT INTERIOR COLUMNS
5 A MINIMUM OF 25% OF BOTTOM BARS SHALL BE CONTINUOUS OR SPLICED WITH A CLASS A TENSION SPLICE
6 EXTEND NO LESS THAN OF 50% OF THE TOP BARS. 7. TILT FROM VERTICAL TO MAINTAIN 3/4" CLEAR

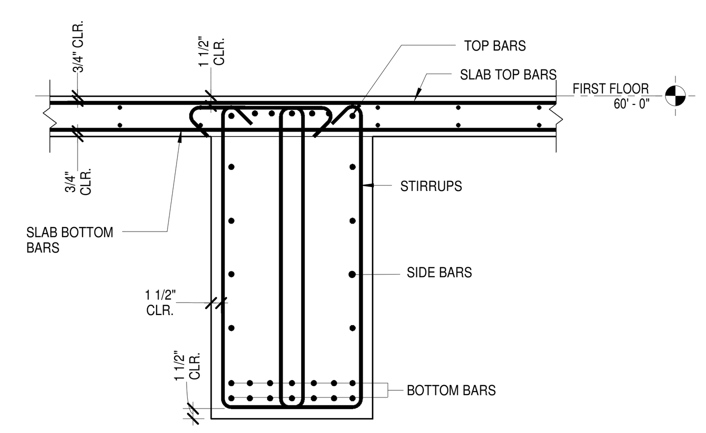
8 S202 CONCRETE ONE WAY SLAB REINFORCEMENT LAYOUT
3/4" = 1'-0"



9 S202 MASONRY BEAM BEARING AT C.M.U
3/4" = 1'-0"

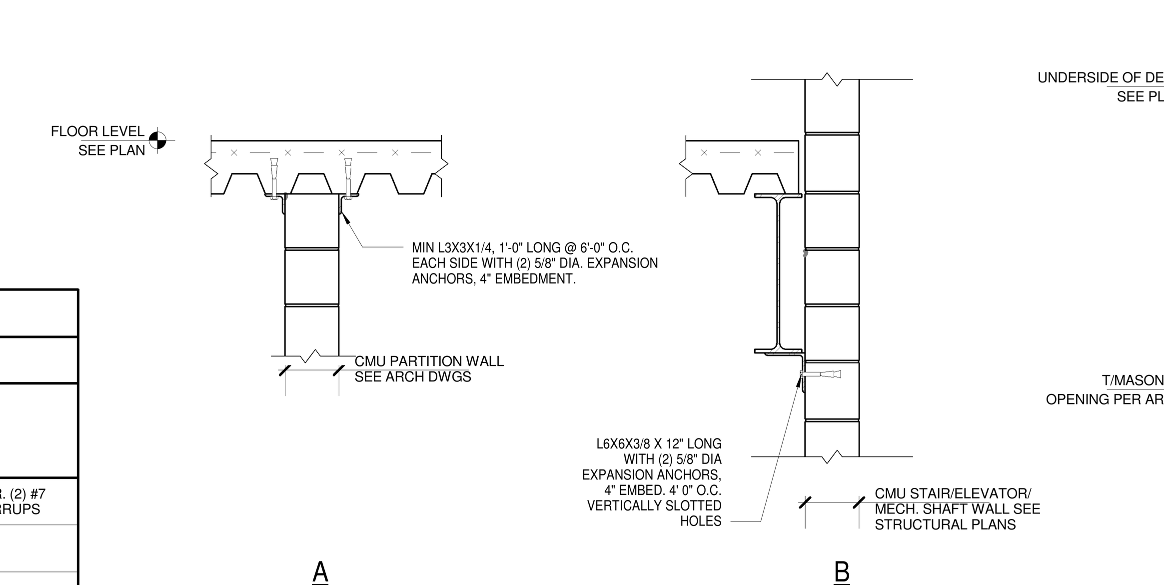
BEAM SCHEDULE Fy = 60ksi F'c = 4000psi							
MARK	SIZE		REINFORCEMENT		STIRRUPS		
	W [IN]	H [IN]	BOTTOM BARS	TOP BARS	SIZE AND SPACING	TYPE	REMARKS
B1	12	24	4-#9	4-#9	#4@10"		TOP AND BOTTOM BARS ARE OUTER BARS TYP U.N.O. TOP AND BOTTOM BARS ARE INNER BARS ON GRID B. SEE NOTE 1.
B2	12	24	4-#8	4-#8	#4@7"		TOP AND BOTTOM BARS ARE INNER BARS @ INTERSECTIONS PROVIDE #4 BARS AT CENTER OF SIDE FACES.
B3	16	24	6-#9	7-#9	#4@10"		LONGITUDINAL BARS IN TWO LAYERS. SEE NOTE 1.
B4	20	24	4-#9	6-#9	#4@6"		TOP AND BOTTOM BARS ARE INNER BARS @ INTERSECTIONS
B5	24	24	6-#9	7-#9	#4@8"		
B6	24	48	14-#9	7-#9	#6@5"		BOTTOM BARS IN TWO LAYERS #5 @9" O.C. EACH SIDE FACE
B7	24	48	14-#9	7-#9	#6@5"		BOTTOM BARS IN TWO LAYERS #5 @9" O.C. EACH SIDE FACE
B8	12	24	4-#8	4-#8	#4@10"		SEE NOTE 1.
B9	12	24	4-#7	4-#7	#4@10"		TOP AND BOT. BARS ARE INNER BARS ALONG GRIDS 13 AND 14.4. SEE NOTE 1.
B10	36	48	19-#9	10-#9	#6@5"		BOTTOM BARS IN TWO LAYERS #5 @8" O.C. EACH SIDE FACE
B11	24	22.5	8-#8	8-#8	#4@7"		
B12 / B12R	20	44	4-#8	6-#8	#4@12" (4) #5 @ BMS		TOP AND BOT. BARS ARE OUTER BARS ALONG GRID E.10, "R" INDICATES SLAB RECESS, SEE PLAN. AT ALL LOW BEAMS PROVIDE (4) #5 STIRRUPS AND (3) #5 BENTS SIM. DETAIL 14/S403 .
B13	12	30	4-#9	4-#9	#4@12"		SEE NOTE 1.
B14	22	30	4-#9	7-#9	#4@10		SEE NOTE 1.
B15	14	18	3-#7	3-#7	#4@7"		
B16	30	24	4-#8	8-#6	#4@10"		BRACED FRAME BEAM: PROVIDE HAIRPINS TO MATCH TOP BARS AT ENDS OF BEAM AROUND BRACE ANCHORS.
B17	48	24	8-#6	8-#8	#4@10"		BRACED FRAME BEAM: PROVIDE HAIRPINS TO MATCH TOP BARS AT ENDS OF BEAM AROUND BRACE ANCHORS.
B18	24	24	4-#7	8-#6	#4@10"		BRACED FRAME BEAM: PROVIDE HAIRPINS TO MATCH TOP BARS AT ENDS OF BEAM AROUND BRACE ANCHORS.
B19	VARIES	44	4-#8	8-#6	#4@8" (4) #5 @ BMS		L SHAPED, SEE DETAIL 14/203 BRACED FRAME BEAM: PROVIDE HAIRPINS TO MATCH TOP BARS AT ENDS OF BEAM AROUND BRACE ANCHORS. PROVIDE ADDITIONAL STIRRUPS AT LOW BEAMS.
B20	18	24	6-#6	8-#6	#4@10"		BRACED FRAME BEAM: PROVIDE HAIRPINS TO MATCH TOP BARS AT ENDS OF BEAM AROUND BRACE ANCHORS.
B21	24	18	4-#7	4-#7	#4@7"		
B22	7.625	18	2-#6	2-#6	#4@7"		ALTERNATE SIDES
B23	6	18	2-#6	2-#6	#4@7"		ALTERNATE SIDES

NOTES: 1. WHERE TOP BARS WOULD HOOK THROUGH THE BRICK SHELF, PROVIDE ADDITIONAL TOP BARS IN A LOWER LAYER WHICH CAN FULLY ENGAGE THE WALL THICKNESS. INDICATED AT TOP OF SECTION 1/S201.
2. FOR H GREATER THAN 24" PROVIDE #4 SIDE BARS AT 12" O.C. MIN.

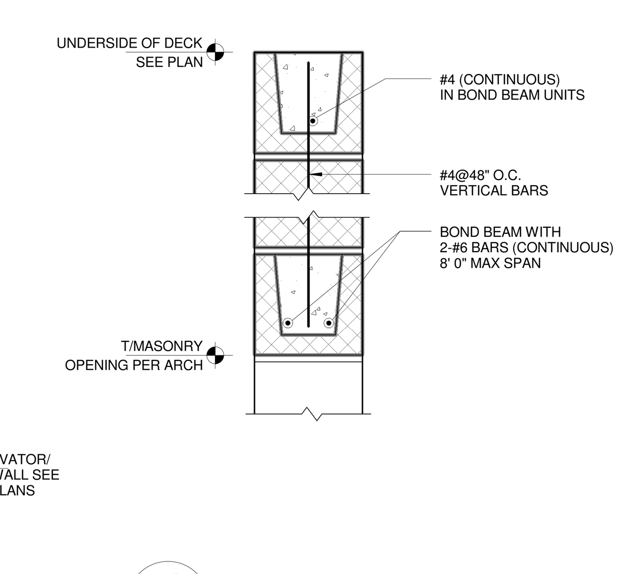


COLUMN FOOTING SCHEDULE						
ALLOWABLE SOIL PRESSURE=2.5 ton/SF f'c=4000 psi						
MARK	SIZE			BOTTOM REINFORCEMENT		REMARKS
	LENGTH (L)	WIDTH (W)	DEPTH (t)	LONG BARS	SHORT BARS	
F-1*/F-1T*	10'-0"	10'-0"	2'-6" F-1T: 3'-6"	13#7	13#7	13#7 TOP BARS BOTH DIR. (2) #7 EACH SIDE, CLOSED STIRRUPS
F-2	7'-6"	7'-6"	2'-0"	9#6	9#6	
F-3*	5'-0"	5'-0"	1'-6"	5#6	5#6	
F-4*/F-4T*	9'-0"	9'-0"	2'-0" F-4T: 2'-6"	9#7	9#7	9#7 TOP BARS BOTH DIR. (2) #7 EACH SIDE, CLOSED STIRRUPS
F-5	12'-0"	8'-0"	1'-6"	11#5	15#7	
F-6	9'-0"	7'-0"	1'-6"	7#6	9#7	
F-7	7'-0"	7'-0"	1'-6"	9#6	9#6	
F-8*	11'-0"	11'-0"	2'-6"	22#6	22#6	TOP BARS TO MATCH FTG REINF. SEE DETAIL 3A/S303, (14)#5 HEEL, (11)#4 TEMPERATURE.
F-9*	4'-0"	4'-0"	1'-0"	6#5	6#5	
F-10* / F-10T*	20'-0"	10'-0"	2'-6"	12#8	22#7	22#7 TOP SHORT BARS 11#7 TOP LONG BARS
F-11T*	12'-0"	10'-0"	2'-6"	8#8	12#7	12#7 TOP SHORT BARS 8#8 TOP LONG BARS

NOTES:
1. * DENOTES 90 DEGREE HOOKS AT BOTH ENDS OF BARS EQUAL TO 12 BAR DIAMETER.
2. FOOTING DESIGNATIONS F-#T INDICATE THAT FOOTING IS TO HAVE TOP AND BOTTOM REINFORCING. FOR TOP BARS REFER TO REMARKS. OUTER LAYER OF TOP BARS IS TO BE DIRECTION IN WHICH FOOTING EXTENDS THE GREATEST DISTANCE TO THE EXTERIOR FROM THE FOUNDATION WALL.
3. TOP AND BOTTOM BARS TO BE CLOSED LOOP STIRRUPS AT BRACED FRAME FOOTINGS, COLUMN #'S 1, 2, 7, 9, 12, 16, 17, 49, 51, 52, 53, 57, 58, 63, & 72.



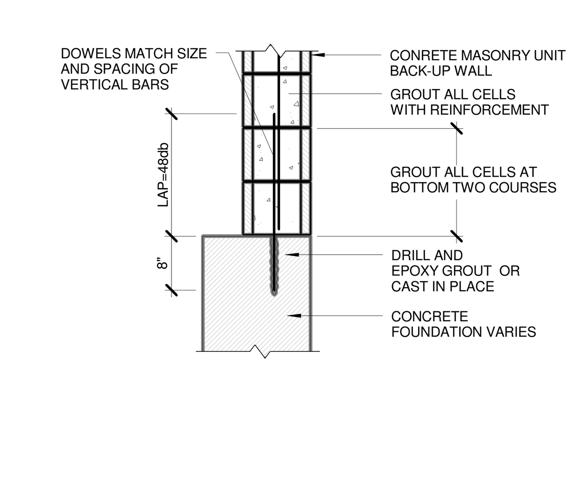
11 S202 CMU SEISMIC CLIPS AND LATERAL BRACING
3/4" = 1'-0"



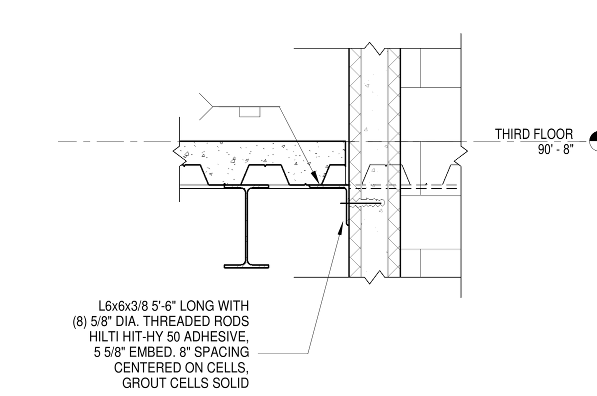
12 S202 MASONRY BOND BEAM
3/4" = 1'-0"

LOOSE LINTEL SCHEDULE FOR NON-LOADBEARING MASONRY PARTITIONS	
SPAN	WALL THICKNESS
	8"
0'-0" TO 4'-0"	2L-4x3 1/2x5/16
4'-1" TO 6'-0"	2L-4x3 1/2x5/16
6'-1" TO 8'-0"	2L-6x4x5/16
8'-1" TO 10'-0"	2-W8X15

NOTES:
1. PROVIDE 6" MIN. BEARING AT EACH SIDE.
2. COORDINATE W/ ARCH. FOR FIREPROOFING ISSUES.
3. INSTALL LONG LEG OF ANGLES VERTICALLY. (U.O.N.)



13 S202 MASONRY TO CONCRETE DOWELS
3/4" = 1'-0"

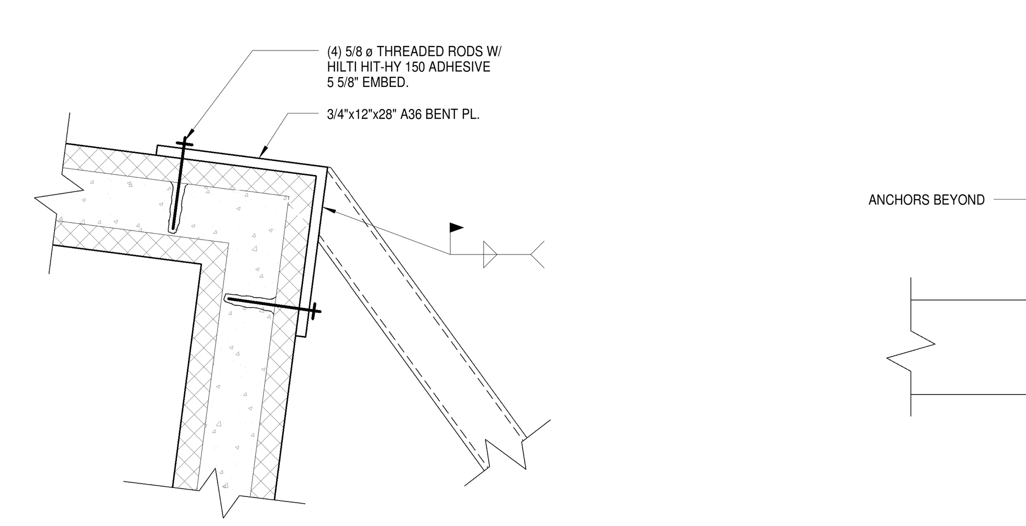


16 S202 CMU WALL TO FLOOR LATERAL CONNECTION
3/4" = 1'-0"

ONE WAY SLAB SCHEDULE	REINFORCING fy = 60,000psi CONCRETE f'c = 4,000psi U.N.O.				
MARK	SIZE T [IN]	REINFORCEMENT			REMARKS
		BOTTOM BARS	TOP BARS	TOP & BOTT. TEMP. BARS	
S1	6	#5@12"	#5@12"	#3@12"	
S2	14	#7@7"	#7@12"	#4@12"	
S3	8-17"	#5@8"	#5@8"	#4@10"	PITCH SLAB AT 1/4" PER 12" SLOPE AWAY FROM BUILDING, CONCRETE EXPOSED TO WEATHER, PROVIDE 4500 PSI CONC.
S4	12	#5@6"	#5@6"	#4@12"	
S5	8"	#6@12"	#6@12"	#4@12"	CONCRETE EXPOSED TO WEATHER, PROVIDE 4500 PSI CONC.

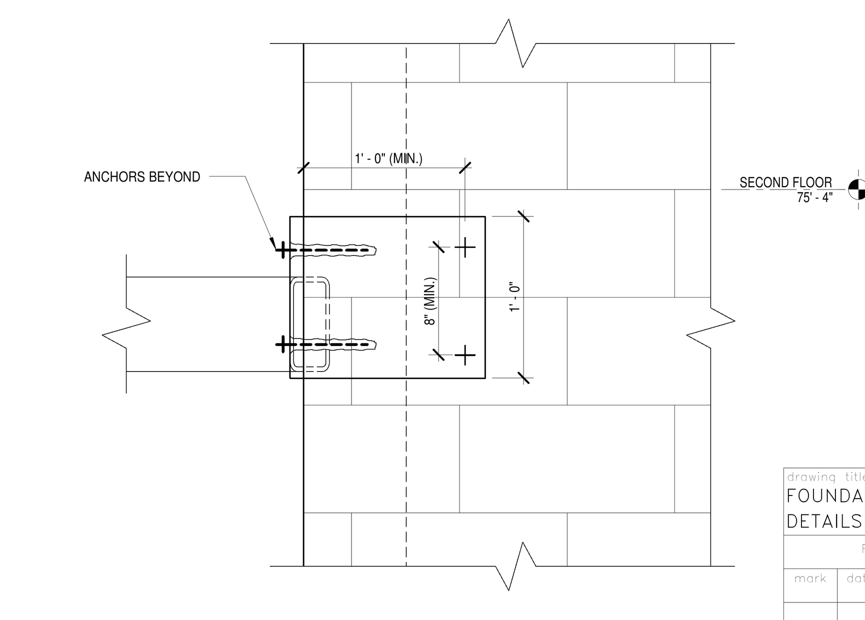
METAL DECK SCHEDULE	REINFORCING fy = 60,000psi CONCRETE f'c = 4,000psi, 145 PCF U.N.O.					
MARK	TOTAL DEPTH	SLAB	REINFORCEMENT	SHEAR STUDS	LOADS: SEE S001 & S002 FOR ADD'L LOAD INFORMATION AND LOAD BREAKDOWNS	COMMENT
MD 1	6 1/2"	3" COMPOSITE METAL DECK WITH 3 1/2" CONCRETE	6X6-W2.9X2.9 W.W.F.*	3/4" DIA. X 5" LONG	108 PSF DEAD LOAD 100 PSF LIVE LOAD	TYPICAL FLOOR TYPE @ 2ND, 3RD, & 4TH LEVELS U.N.O.
MD 2	7 1/2"	3" COMPOSITE METAL DECK WITH 4 1/2" CONCRETE	6X6-W2.9X2.9 W.W.F.	3/4" DIA. X 5" LONG	120 PSF DEAD LOAD 100 PSF LIVE LOAD	LOCATED AT TOPS OF MECHANICAL SHAFTS & ELEVATOR MACHINE ROOM.
MD 3	3"	3" ROOF DECK	NONE	NONE	25 PSF DEAD, 50 PSF LIVE, SEE S002 FOR WIND LOADS	TYPICAL @ SLOPED ROOFS AND LOW ROOFS U.N.O.

NOTES:
1. SEE S401 FOR TYPICAL METAL DECK DETAILS AND ADDITIONAL REINFORCING INFORMATION.
2. SEE METAL DECK NOTES ON S001 FOR ADDITIONAL INFORMATION.
3. ALL ROOF DECKING TO COMPLY WITH FACTORY MUTUAL REQUIREMENTS.
4. * AT RADIANT FLOORS PROVIDE (2) LAYERS OF SPECIFIED REINFORCEMENT MESH, SEE DETAIL 26/S401. FOR RADIANT FLOOR LOCATIONS SEE HP102-HP104 DRAWINGS



NOTE: GROUT ALL CELLS W/ ANCHORS

14 S202 FACADE SUPPORT AT ELEVATOR
1 1/2" = 1'-0"



15 S202 SECTION AT FACADE SUPPORT AT ELEVATOR
1 1/2" = 1'-0"

drawing title: FOUNDATION/CONCRETE DETAILS II

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Gilsanz Murray Steficek LLP
129 West 27th St, Fifth Floor
New York, NY 10001

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 10125 project no. BI-RS-283

volume 1 of 2
date 11-21-2012
scale As indicated
drawn by Author
approved by Checker
drawing no. S202

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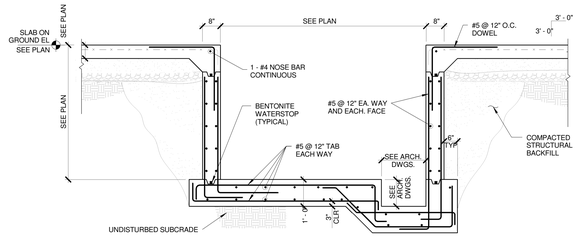
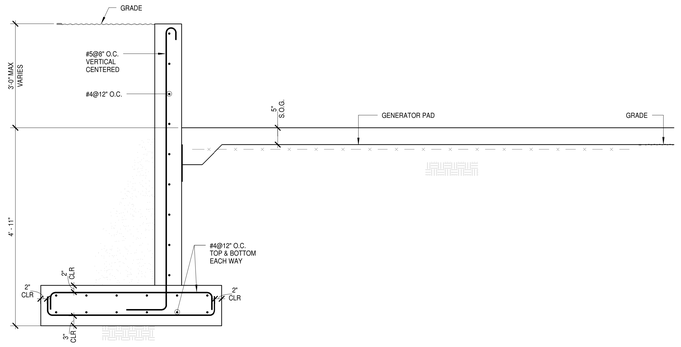
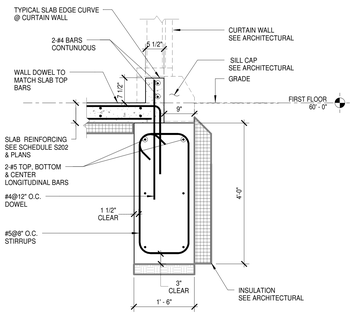


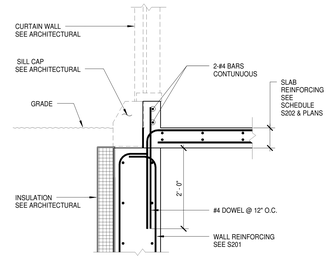
1 S203 FOUNDATIONS ELEVATOR PIT
1/2" = 1'-0"



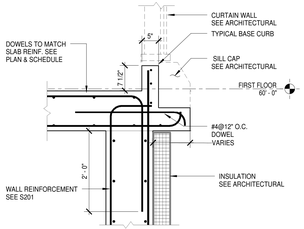
2 S203 CANTILEVER RETAINING WALL
3/4" = 1'-0"



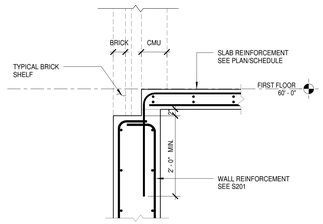
3 S203 TYPICAL GRADE BEAM AND CURTAIN WALL BASE
3/4" = 1'-0"



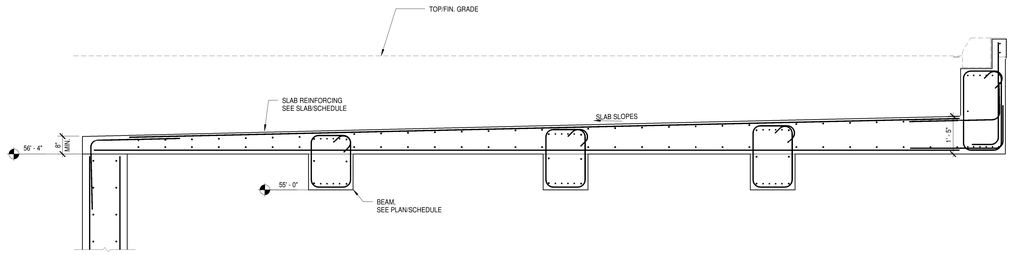
4 S203 TYPICAL CURB AT CURTAINWALL BASE
3/4" = 1'-0"



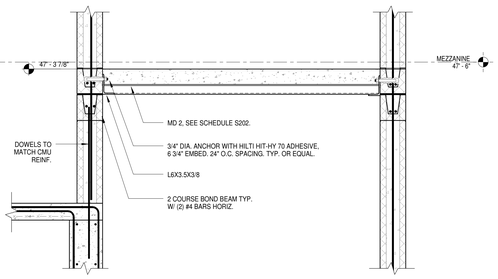
5 S203 EDGE CONDITION AT KNUCKLE GROUND FLOOR
3/4" = 1'-0"



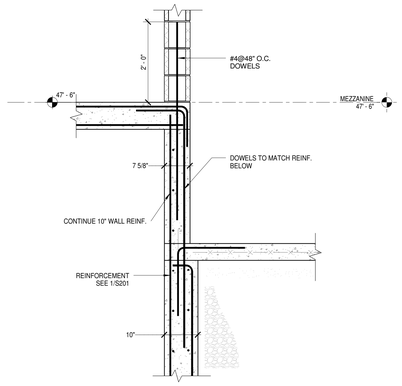
6 S203 TYPICAL BRICK SHELF
3/4" = 1'-0"



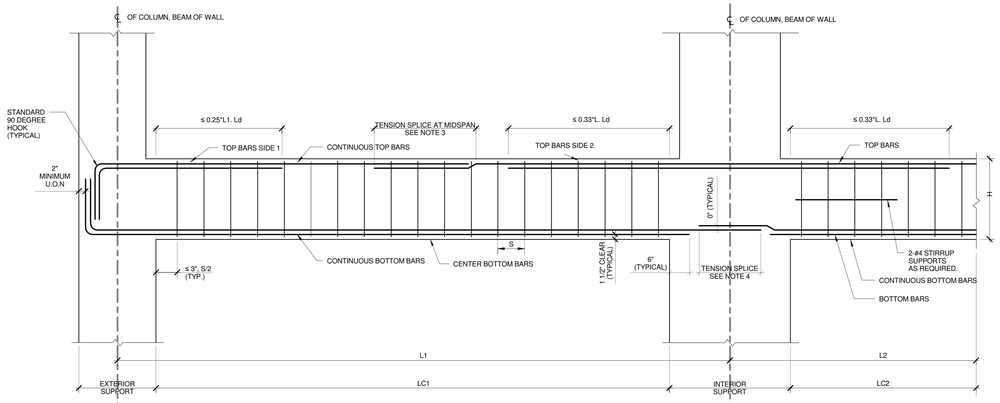
7 S203 SECTION AT SLOPED ENTRANCE SLAB
1/2" = 1'-0"



8 S203 ELEVATOR MACHINE ROOM SECTION
3/4" = 1'-0"

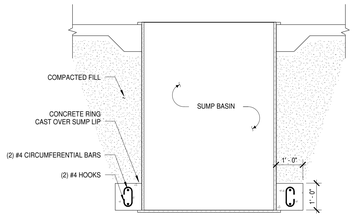


9 S203 MEZZANINE WALL SUPPORT
3/4" = 1'-0"

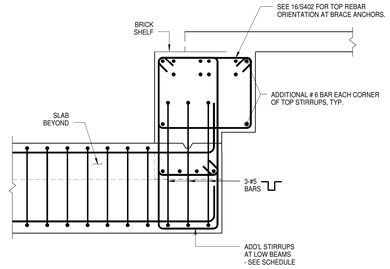


10 S203 CONCRETE GRAVITY BEAM REINFORCEMENT PLACING DETAIL
3/4" = 1'-0"

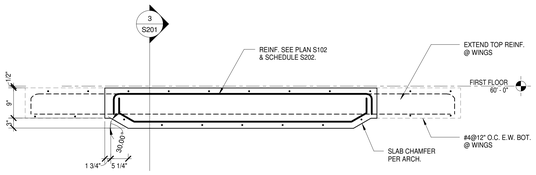
NOTES:
1 LC1, LC2 = LENGTH OF CLEAR SPANS 1,2 (FROM FACE TO FACE OF SUPPORT).
2 L = THE GREATER LENGTH OF CLEAR SPAN LC1 OR LC2.
3 FOR EDGE BEAMS NOT LESS THAN TWO CONTINUOUS BARS NOR SCHEDULED BARS.
4 FOR ALL BEAMS NOT LESS THAN TWO CONTINUOUS BARS NOR SCHEDULED BARS.
5 FOR EDGE BEAMS, ALL SPLICES ARE CLASS B. FOR ALL OTHER BEAMS, PROVIDE CLASS A SPLICES U.O.N.
6 FOR EDGE BEAMS, PROVIDE ONE-PIECE CLOSED STIRRUPS ONLY.
7 FOR ALL BEAMS, PROVIDE SIDE BARS WHEN H>18". FOR BALANCE OF INFORMATION SEE TYPICAL BEAM PROFILE.
8 FOR LONGIT. & SHEAR REINF., SEE BEAM SCHEDULE.
9 AT INTERIOR SUPPORTS PROVIDE LARGER SIZE AND NUMBER OF TOP BARS FROM ADJACENT SPANS AS PER THE BEAM SCHEDULE.
10 A MINIMUM OF TWO BOTTOM BARS SHALL TERMINATE WITH HOOKS INTO EXTERIOR COLUMNS AND CONTINUE THROUGH OR TENSION LAP AT INTERIOR COLUMNS.



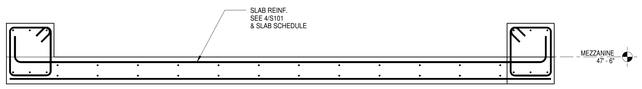
15 S203 SUMP BASIN ENCASEMENT
1/2" = 1'-0"



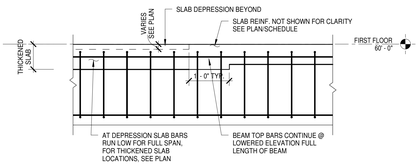
14 S203 CONCRETE BEAM LOW
3/4" = 1'-0"



11 S203 SECTION THROUGH KNUCKLE GROUND FLOOR BRIDGE
3/4" = 1'-0"



12 S203 MEZZANINE SECTION
3/4" = 1'-0"



13 S203 TYPICAL BEAM STEP
3/4" = 1'-0"

project title
FOUNDATION/CONCRETE DETAILS III

REVISIONS

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	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
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project
SCSU NEW ACADEMIC LABORATORY BUILDING

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project no. BI-RS-283

volume 1 of 2
date 11-21-2012
scale As indicated
drawn by Author
checked by Checker
drawing no. S203

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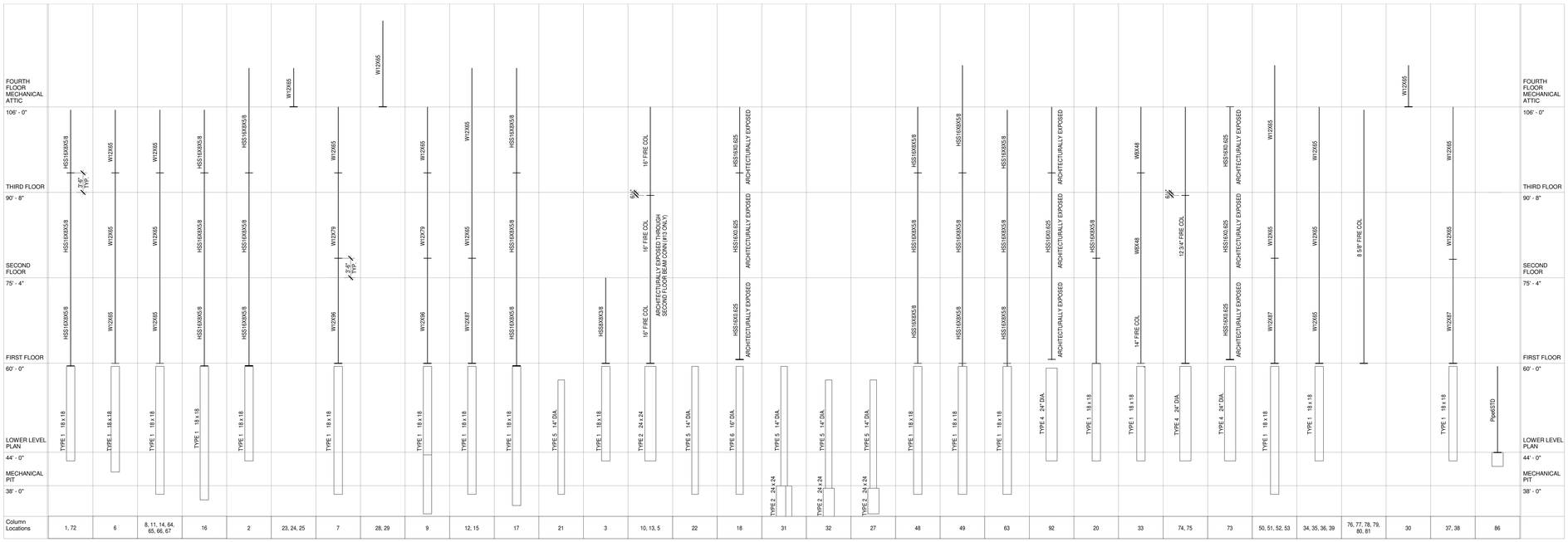
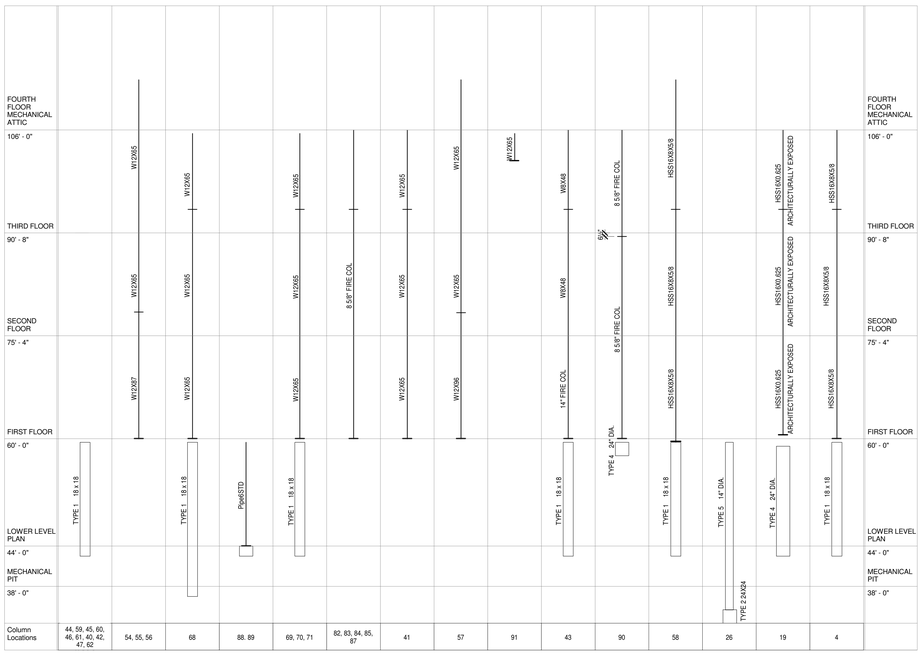




NOTE:
1. ARCHITECTURALLY EXPOSED HSS AND STEEL PIPE COLUMNS TO HAVE PREQUALIFIED COMPLETE JOINT PENETRATION WELDS AT SPLICES.
2. FOR REINFORCING IN CONCRETE COLUMNS SEE COLUMN TYPES ON 2/S202
3. SEE BASE PLATE SCHEDULE THIS SHEET FOR BASE PLATE SIZES AND DETAILS.
4. BOTTOM OF INTERIOR BASEPLATES TO BE 1" ABOVE FIRST FLOOR LEVEL, EXCEPT AT FIREPROOF COL OR U.N.O. SEE 8/S202.
5. BOTTOM OF EXTERIOR BASEPLATES TO BE 6" BELOW FIRST FLOOR LEVEL, U.N.O.
6. FOR CANOPY, VESTIBULE, TRELLIS, BRIDGE COLUMNS, AND MISC. PIPE/TUBE COLUMNS SEE PLANS.
7. COLUMNS INDICATED AS FIRE COL INDICATES A STEEL COLUMN FABRICATED WITH AN OUTER STEEL SHELL AND FIELD WITH FIREPROOFING TO PRODUCE A SMOOTH ARCHITECTURAL FINISH AND A FIREPROOF ELEMENT. SEE SCHEDULE AND NOTES.

BASE PLATE SCHEDULE - A36

COLUMN SIZE	BASE PLATE SIZE	BASE PLATE DETAIL	ANCHOR BOLTS
W8	1'-11½"x1'-11½"x1¼"	-	(4)1"ØF554x1'-6"
W12	1'-6"x1'-1"x2"	1 OR 2/S301	SEE DETAILS
6"Ø	1'-0"Øx1¼"	-	(4)1"ØF554x1'-6"
8"Ø	1'-4"Øx1½"	-	(4)1"ØF554x1'-6"
12¾"Ø	1'-9"Øx1¼"	-	(4)1"ØF554x1'-6"
16"Ø	SEE DETAILS	8,910/S403	SEE DETAILS
HSS 8x8	1'-4"x1'-4"x1"	-	(4)1"ØF554x1'-6"
HSS 16x8	SEE DETAILS S302 & S303	SEE DETAILS	SEE DETAILS

NOTES:

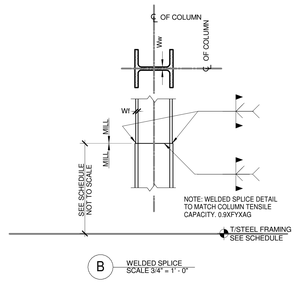
1. IF OVERSIZE HOLES (HOLES GREATER THAN DIA BOLT + 1/16") ARE USED IN BASEPLATES, PROVIDE PLATE WASHERS. THE FOLLOWING REPRESENT MINIMUM WASHER SIZES FOR SQUARE OR CIRCULAR GEOMETRY. 3/4" BOLTS - MAXIMUM 1 5/16" HOLE - 2" X 1/4" WASHERS, 1" BOLTS - MAXIMUM 1 13/16" HOLE - 3" X 3/8" WASHERS, 1.25" BOLTS - MAXIMUM 2 1/16" HOLE - 2" X 1/2" WASHERS, 1.5" BOLTS - MAXIMUM 2 5/16" HOLE - 3.5" X 1/2" WASHERS.
2. AT ANY OVERSIZE HOLES AT BRACE BASEPLATES, PLATE WASHERS ARE TO BE WELDED TO BASEPLATE, ALL AROUND, WITH 1/4" FILLET WELD.

FIRE COLUMN SCHEDULE

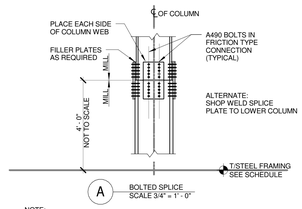
NAME	COLUMN SIZE	FIREPROOFING SHELL
8 5/8" FIRE COL	6" SCH. 80	8 5/8"
12 3/4" FIRE COL	8" SCH. 80	12 3/4"
16" FIRE COL	HSS 12.75x0.50	16"
14" FIRE COL	W8x48	14"

NOTES:

1. ALL BASEPLATES TO BE ATTACHED W/ (4) 1" DIA F1554 ANCHOR RODS W/ EXTRA HEAVY NUTS. SEE DETAIL 2/S201.
2. STEEL COLOUMN, CONCRETE & SHELL TO ACHIEVE 2 HR FIRE RATING AND BE MANUFACTURED BY BLACKROCK COLUMN, DEAN LALLY OR EQUAL.
3. SEE DETAIL 17/S402 FOR SPLICE LOCATION.



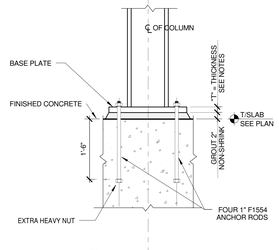
B WELDED SPLICE
SCALE 3/4" = 1'-0"



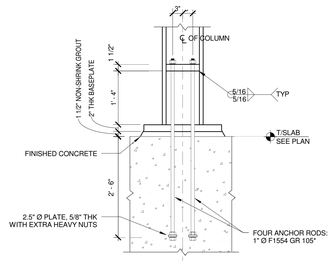
A BOLTED SPLICE
SCALE 3/4" = 1'-0"

NOTE:
1. AT ALL COLUMNS IN BRACED FRAMES, BOLTED OR WELDED SPLICES SHALL DEVELOP COLUMN TENSILE CAPACITY (0.9*FY*AG).
BRACE COLUMNS INCLUDE #S 1, 2, 7, 9, 16, 17, 49, 52, 53, 57, 58, 72.
2. AT ALL OTHER COLUMNS SPLICES TO COMPY WITH MINIMUM SPLICE REQUIREMENTS OF AISC LRFD 3RD EDITION TABLE 14-3.

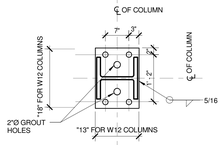
3 S301 COLUMN SPLICE
3/4" = 1'-0"



B ELEVATION
SCALE 3/4"=1'-0"



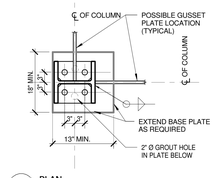
B ELEVATION
SCALE 3/4"=1'-0"



A PLAN
SCALE 3/4"=1'-0"

NOTE:
BASEPLATE THICKNESS 2" FOR ALL W12 COLUMNS

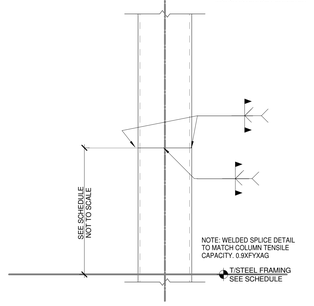
1 S301 TYPE I COLUMN BASE (TYPICAL)
3/4" = 1'-0"



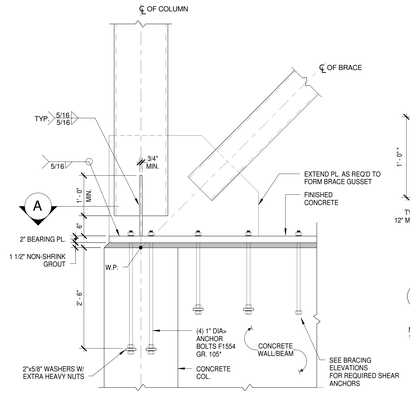
A PLAN
SCALE 3/4"=1'-0"

NOTE:
1. BRACE COLUMNS INCLUDE #'S 1, 2, 7, 9, 16, 17, 49, 52, 53, 57, 58, 72.
2. SEE DRAWINGS S302 AND S303 FOR BRACED FRAME LOCATIONS
*AT COLUMN #57 USE (4) 1.25" F1554 GR. 105 BOLTS, 2'-6" LONG.

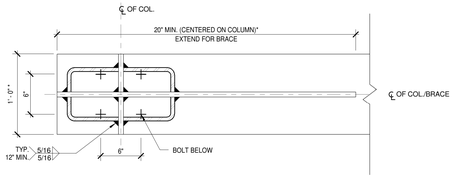
2 S301 TYPE II COLUMN BASE (TYP. @ BRACED FRAMES)
3/4" = 1'-0"



4 S301 TUBE STEEL COLUMN SPLICE
3/4" = 1'-0"



5 S301 TYPE II COLUMN BASE AT HSS
3/4" = 1'-0"



A SECTION
SCALE 1 1/2"=1'-0"

NOTE: AT COLUMN #58, MINIMUM BASEPLATE DIMENSIONS TO BE INCREASED TO 14" X 25" X 2 1/2", PROVIDE (4) ADDITIONAL 1" DIA 1554 ANCHORS, 22" EMBED, FOR TOTAL OF 8 ANCHORS CENTERED ON COLUMN.

project name: COLUMN SCHEDULE	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		sheet no. 1 of 2
REVISIONS: mark / date / description	DRAWING PRODUCED BY: Gilsanz Murray Steficek LLP, 129 West 27th St, Fifth Floor, New York, NY 10001		date: 11-21-2012
11-21-2012 Bid Documents	project: SCSU NEW ACADEMIC LABORATORY BUILDING		scale: As indicated
			drawn by: Author
			checked by: Checker
	CAD no. 10125	project no. BI-RS-283	drawing no. S301

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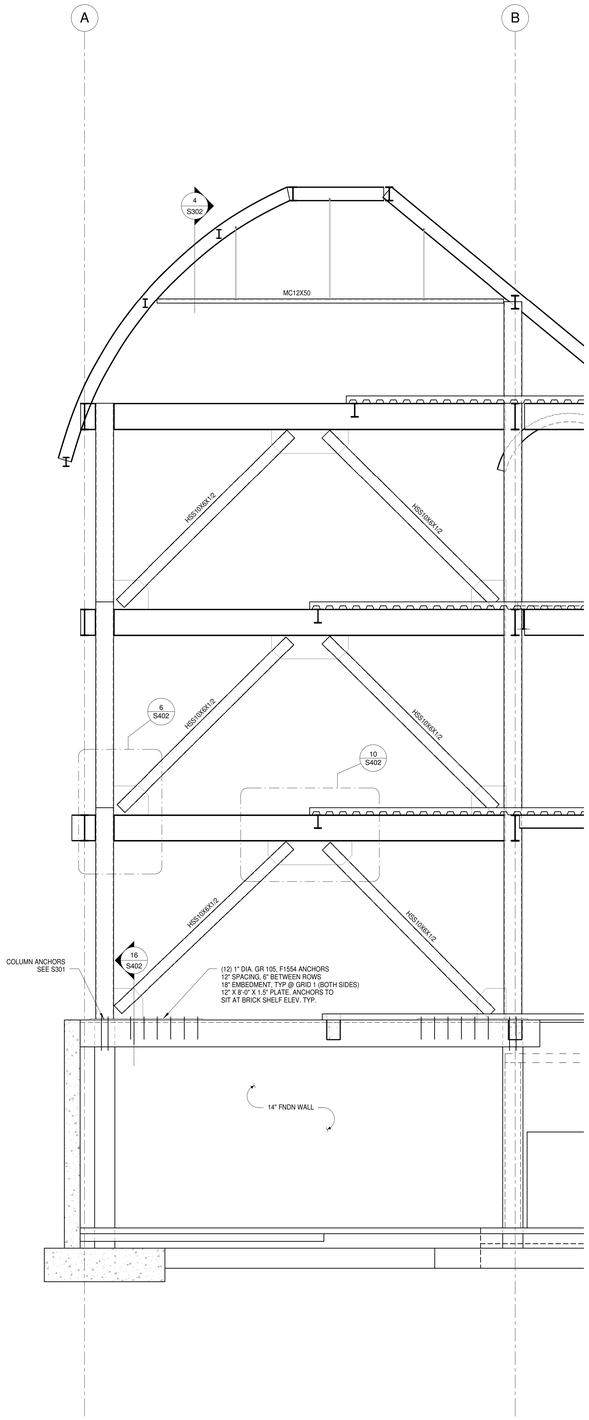
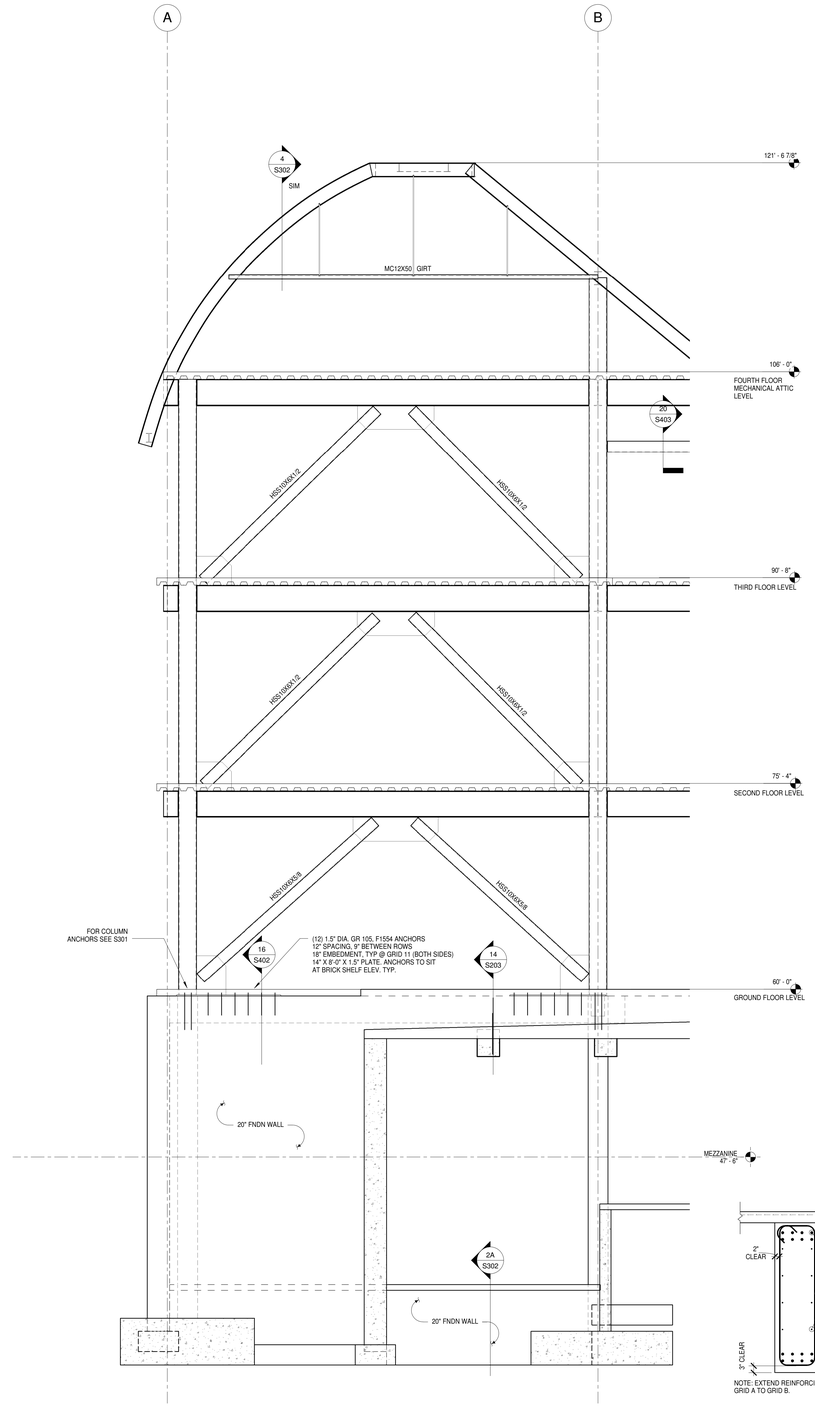
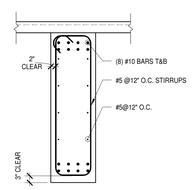


1 S302 BRACED FRAME GRID 1
1/4" = 1'-0"

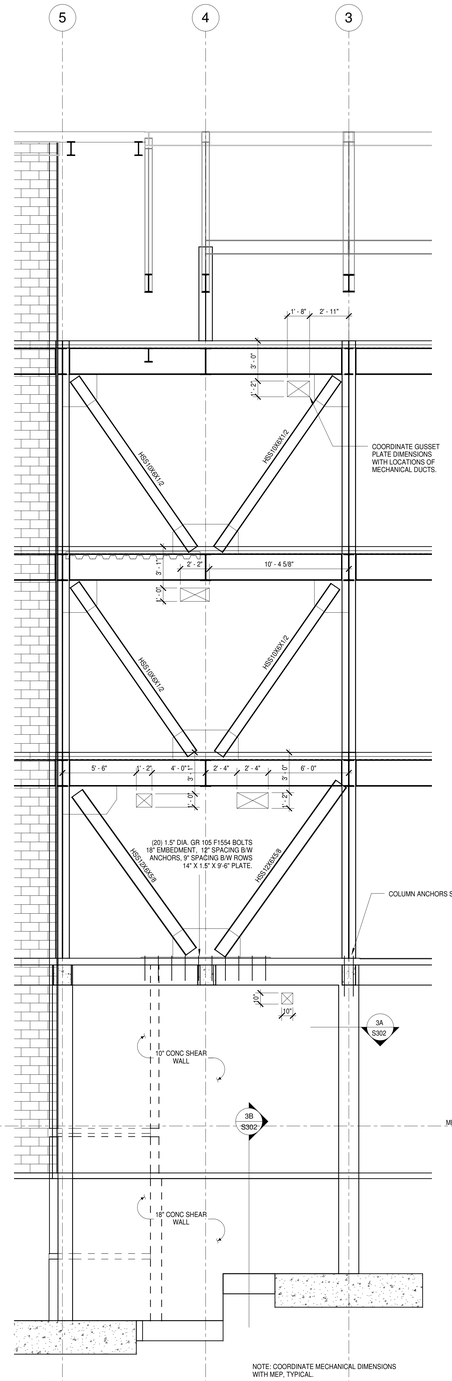


2 S302 BRACED FRAME GRID 11
1/4" = 1'-0"



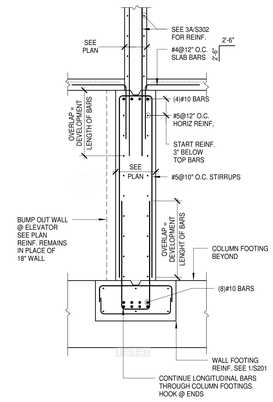
NOTE: EXTEND REINFORCING FROM GRID A TO GRID B.

2A S302 CONCRETE WALL REINF. AT GRID 11
1/2" = 1'-0"

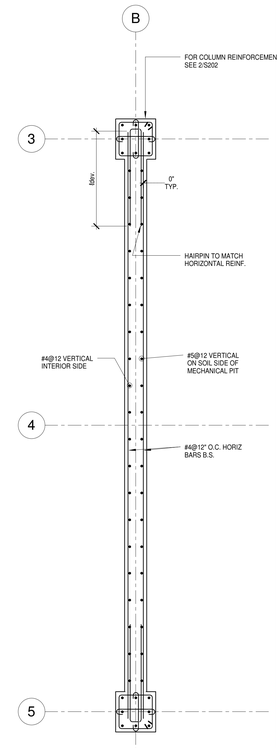


NOTE: COORDINATE MECHANICAL DIMENSIONS WITH MEP, TYPICAL.

3 S302 BRACED FRAME GRID B
1/4" = 1'-0"

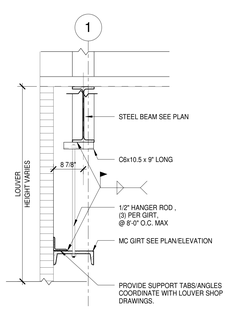


3B S302 18" SHEAR WALL
1/2" = 1'-0"



NOTES:
1. VERTICAL BARS ARE INTERIOR BARS @ SHEAR WALLS.
2. PROVIDE SLAB DOWELS INTO S.O.G. @ LOWER LEVEL #4@12 O.C. HOOKED INTO WALL.

3A S302 TYPICAL PLAN AT SHEAR WALL
1/2" = 1'-0"



4 S302 LOUVER SUPPORT GIRT
3/4" = 1'-0"

drawing title: BRACING ELEVATIONS I	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		sheet no. 1 of 2
REVISIONS mark / date / description	DRAWING PREPARED BY: Gilsanz Murray Steficek LLP 129 West 27th St, Fifth Floor New York, NY 10001		date: 11-21-2012
11-21-2012 Bid Documents	project: SCSU NEW ACADEMIC LABORATORY BUILDING		scale: As indicated
			drawn by: Author
			reviewed by: Checker
	CAD no. 10125	project no. BI-RS-283	drawing no. S302

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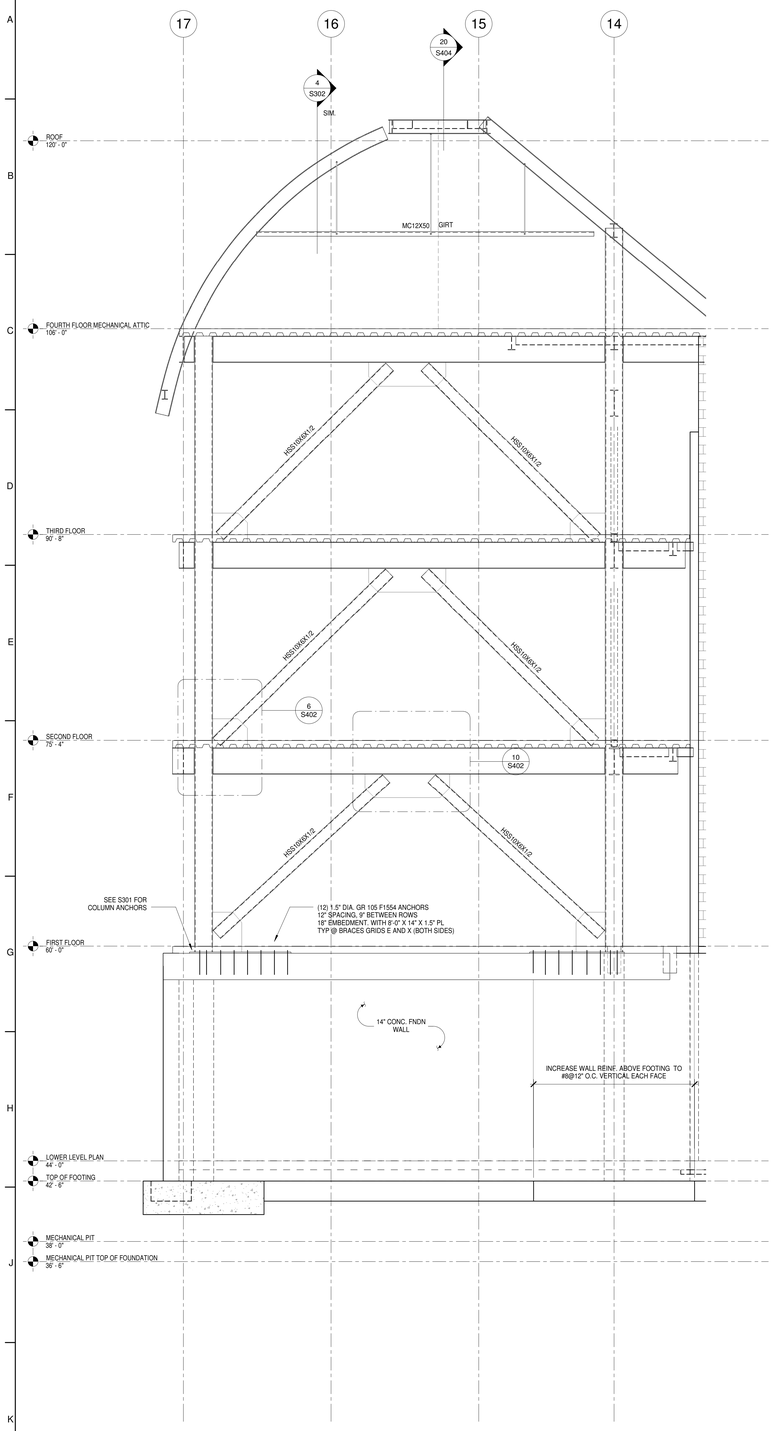
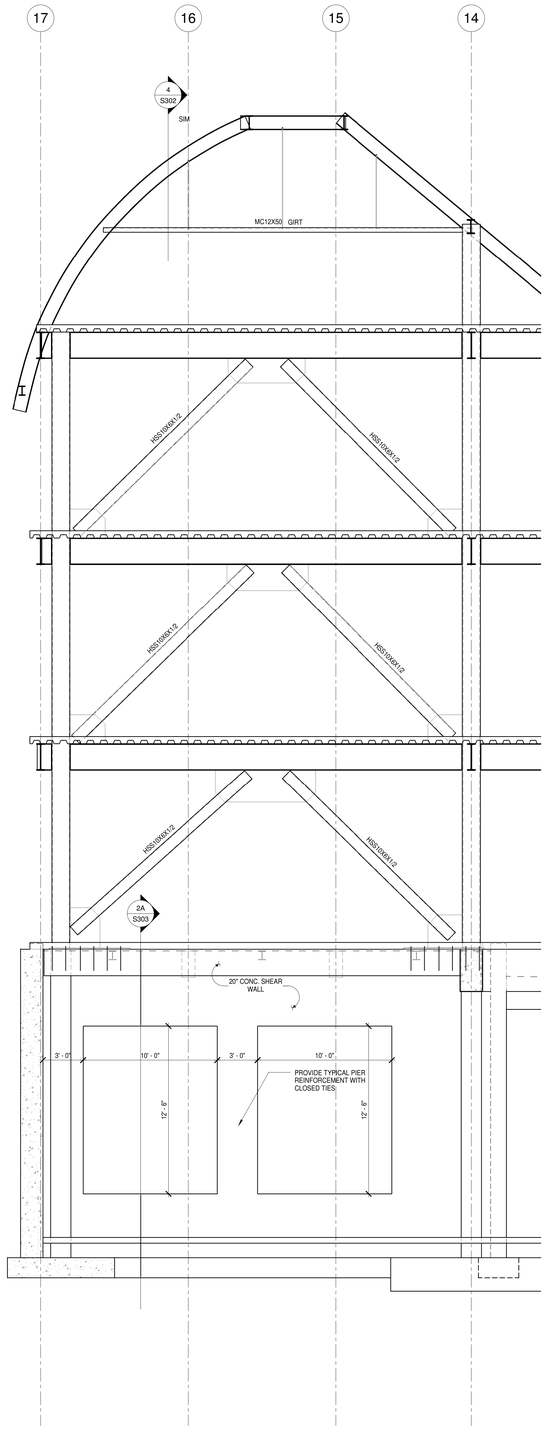
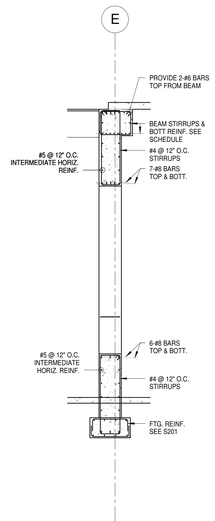


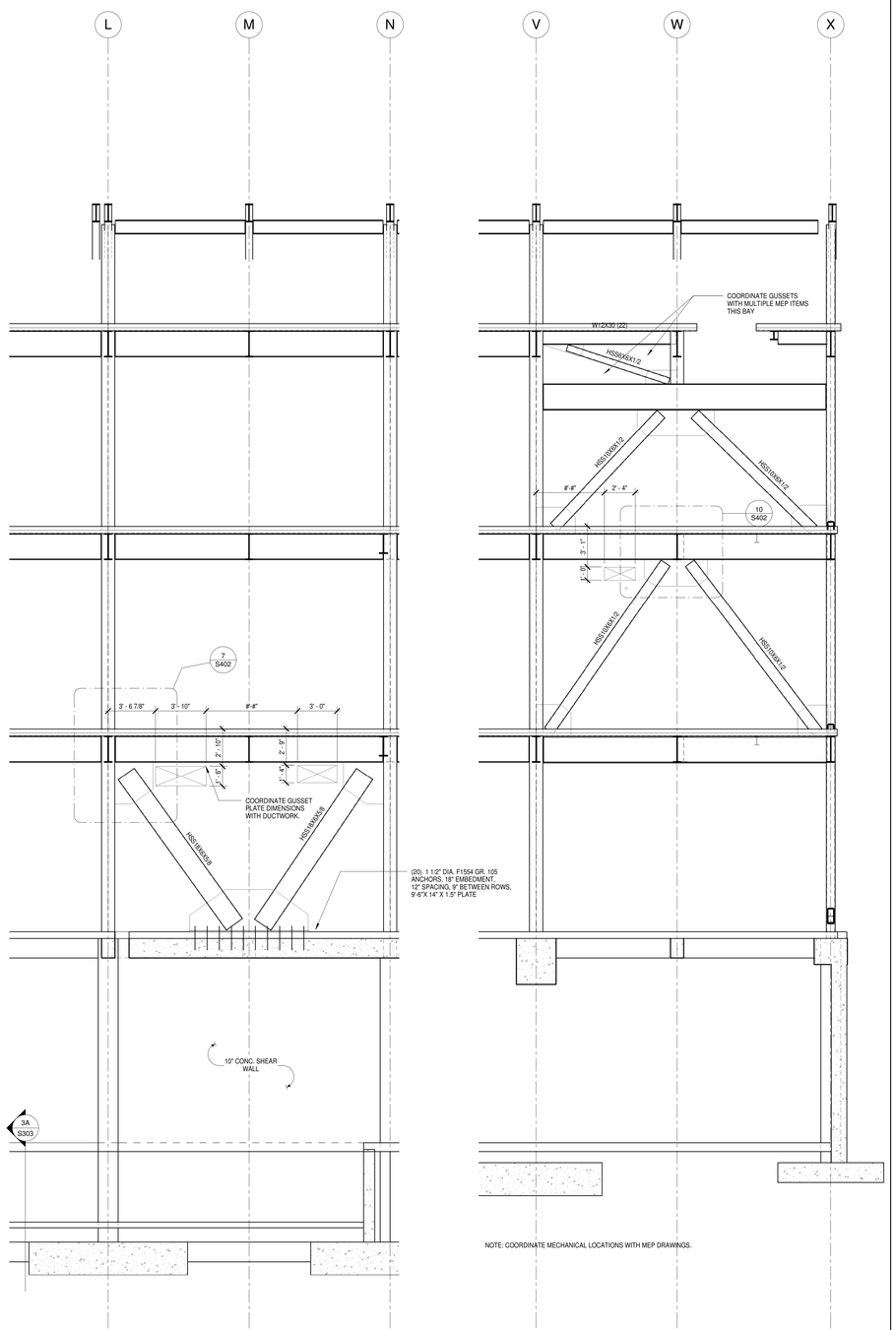
1 S303 BRACED FRAME GRID X
1/4" = 1'-0"



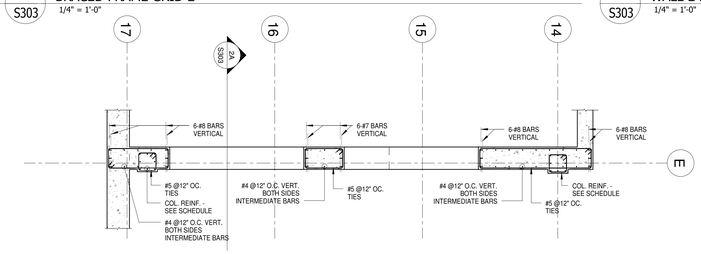
2 S303 BRACED FRAME GRID E
1/4" = 1'-0"



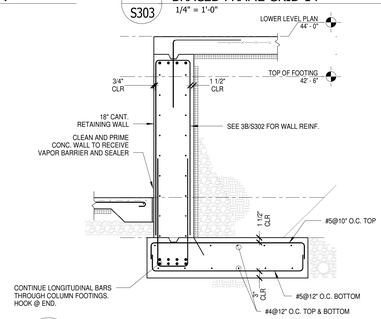
2A S303 WALL E BEAM REINF.
1/4" = 1'-0"



3 S303 BRACED FRAME GRID 14
1/4" = 1'-0"



2B S303 WALL PIER REINFORCING LINE E
1/4" = 1'-0"



3A S303 18" RETAINING WALL
1/2" = 1'-0"

drawing title: BRACING ELEVATIONS II	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES	volume: 1 of 2
REVISIONS mark / date / description 11-21-2012 / Bid Documents	DRAWING PREPARED BY: **Gilsanz Murray Steficek LLP** 129 West 27th St, Fifth Floor New York, NY 10001	date: 11-21-2012 scale: As indicated drawn by: Author checked by: Checker
	project: SCSU NEW ACADEMIC LABORATORY BUILDING	
	CAD file: 10125 / project no.: BI-RS-283	drawing no.: S303

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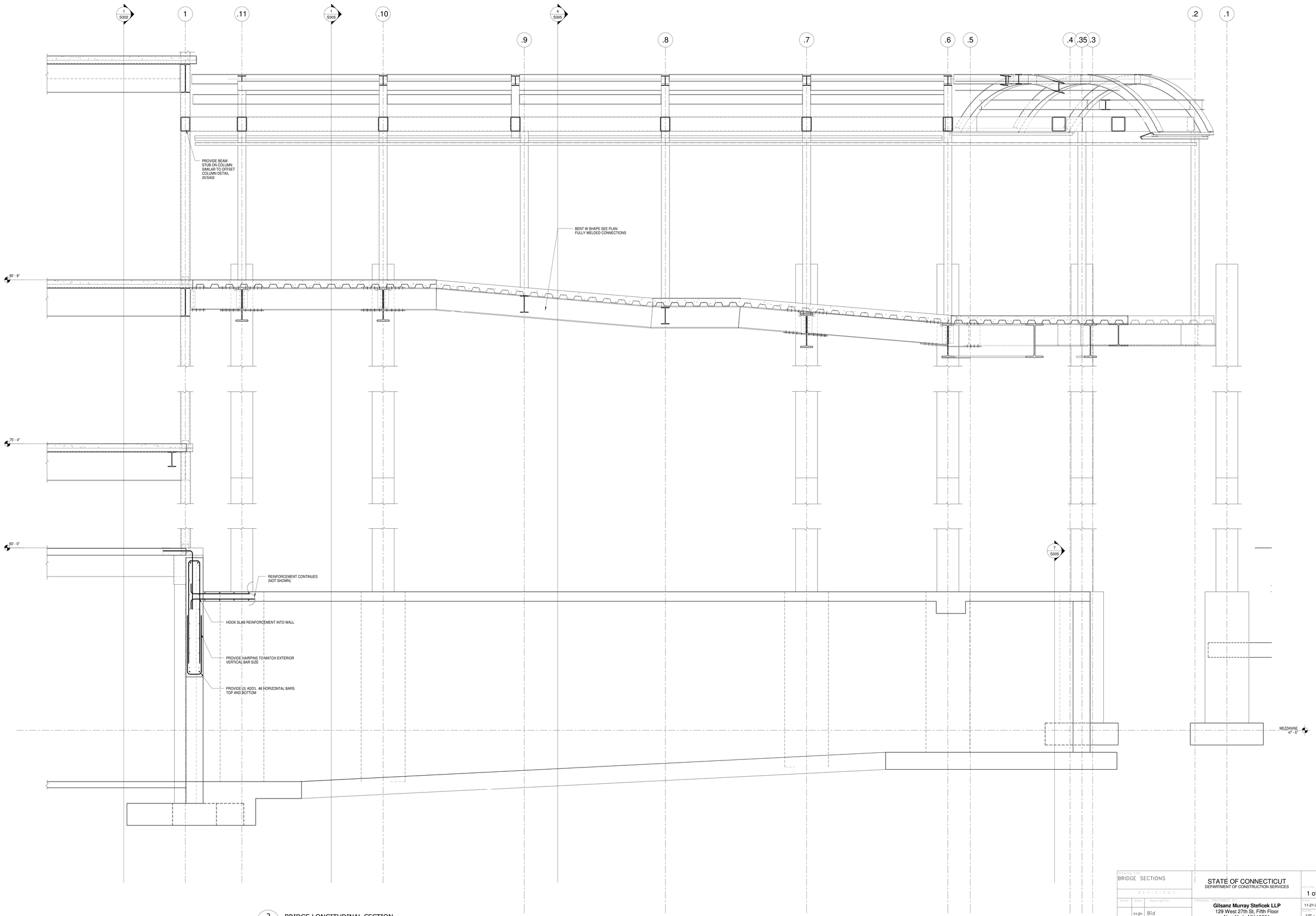

2 S304 BRIDGE LONGITUDINAL SECTION
1/2" = 1'-0"

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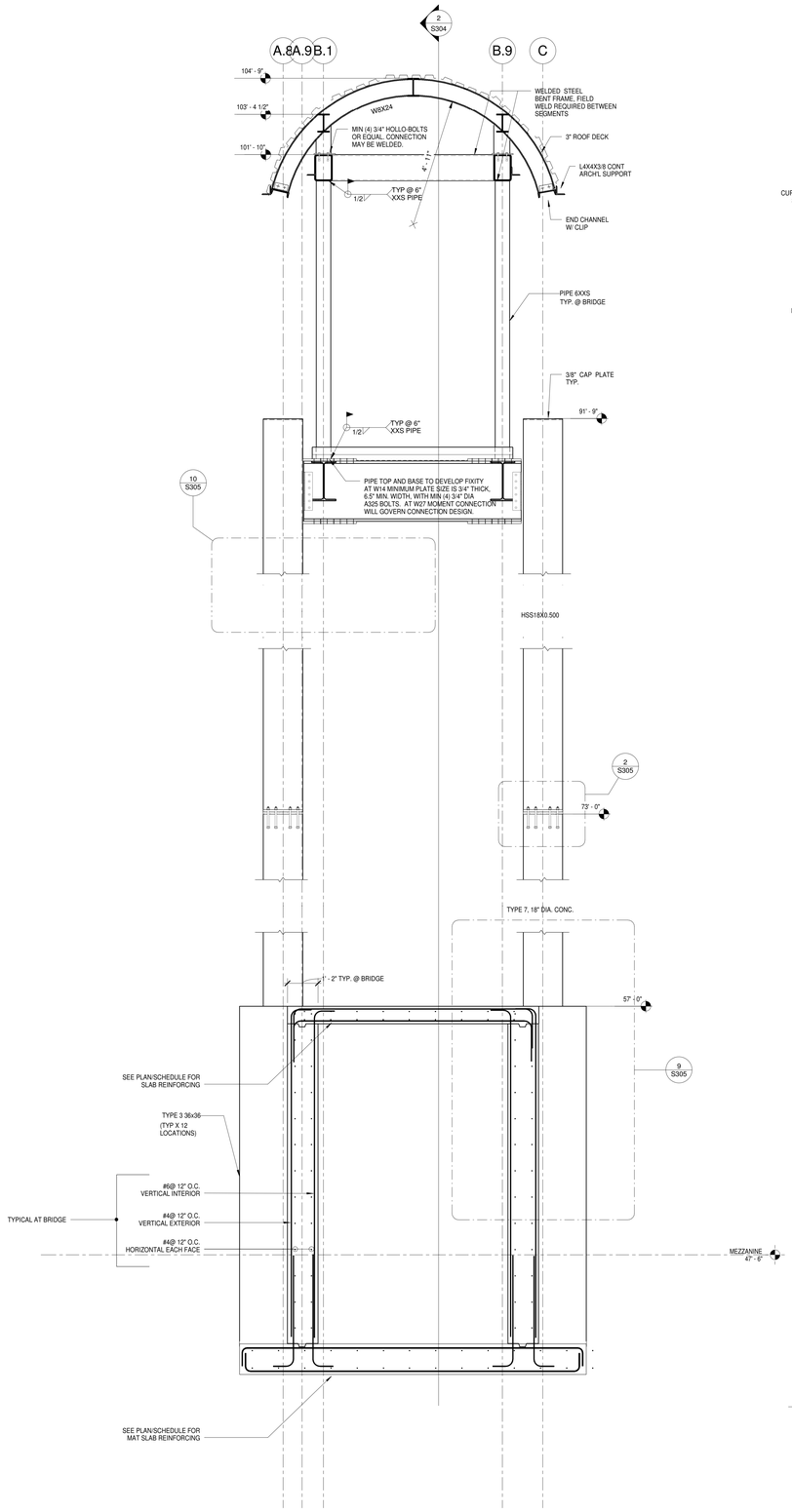
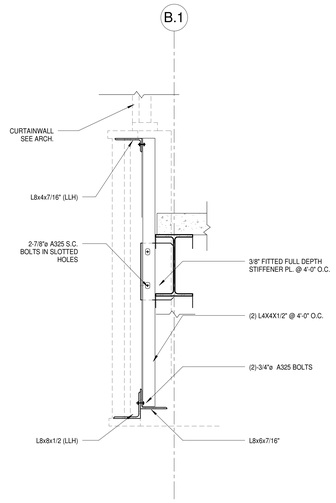
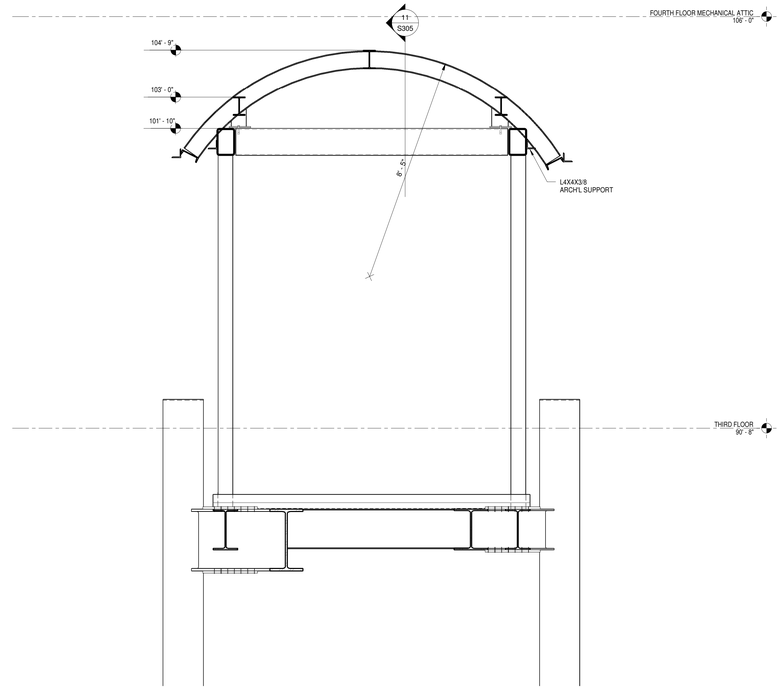
drawing title: BRIDGE SECTIONS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES
REVISIONS	
mark / date / description: 11-21-2012 Bid Documents	DRAWING PREPARED BY: Gilsanz Murray Steficek LLP, 129 West 27th St, Fifth Floor, New York, NY 10001
project: SCSU NEW ACADEMIC LABORATORY BUILDING	
CAD no.: 10125 / project no.: BI-RS-283	
volume: 1 of 2	
date: 11-21-2012	
scale: 1/2" = 1'-0"	
drawn by: Author	
reviewed by: Checker	
drawing no.: S304	



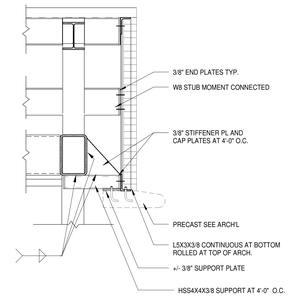
1 S305 BRIDGE CROSS SECTION AND COLUMN TRANSITIONS
1/2" = 1'-0"



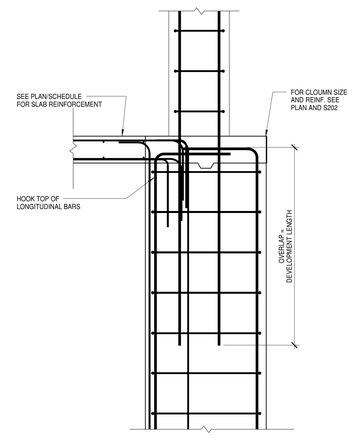
4 S305 TYP. CURTAIN WALL SUPPORT AT BRIDGE
3/4" = 1'-0"



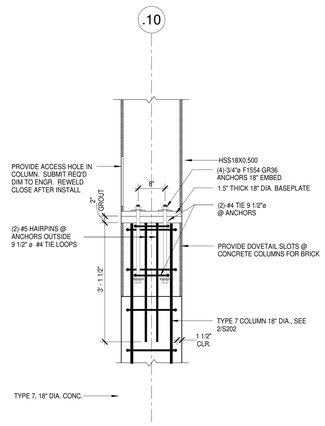
3 S305 SECTION AT BRIDGE END
1/2" = 1'-0"



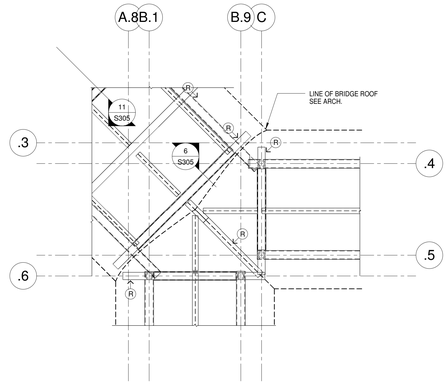
11 S305 PRECAST AND WALL SUPPORT AT BRIDGE END
3/4" = 1'-0"



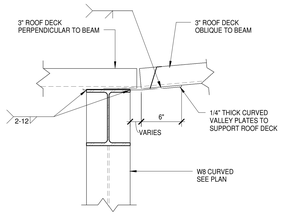
9 S305 CONCRETE COLUMN TRANSITION (TYP. X 12 LOCATIONS)
3/4" = 1'-0"



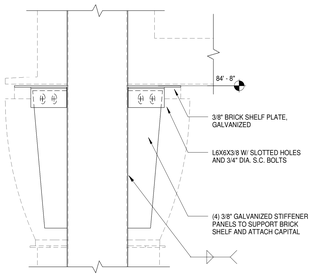
2 S305 BRIDGE COLUMN CONNECTION
3/4" = 1'-0"



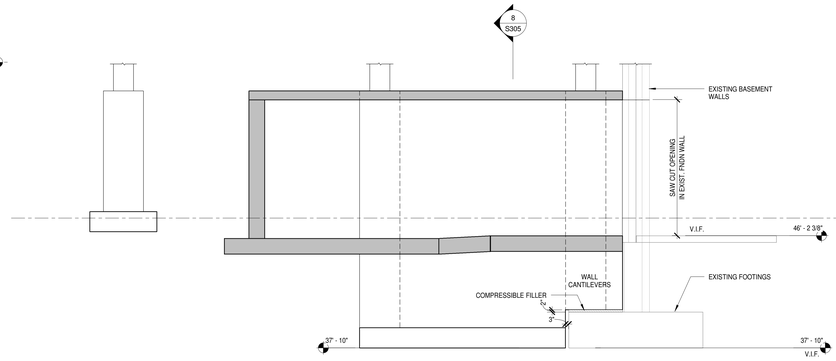
5 S305 BRIDGE PLAN AT ROOF INTERSECTION
1/4" = 1'-0"



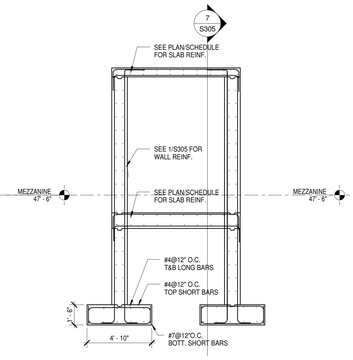
6 S305 SECTION AT BRIDGE ROOF
1 1/2" = 1'-0"



10 S305 TYP. BRIDGE COLUMN BRICK SUPPORT
3/4" = 1'-0"



7 S305 BRIDGE FOOTING AT JENNINGS
1/4" = 1'-0"



8 S305 BRIDGE SECTION BELOW GRADE AT JENNINGS
1/4" = 1'-0"

BRIDGE AND CANOPY DETAILS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		1 of 2
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11-21-2012 Bid Documents	project: SCSU NEW ACADEMIC LABORATORY BUILDING		As indicated
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			Checker
	CAD no. 10125 / project no. BI-RS-283		S305

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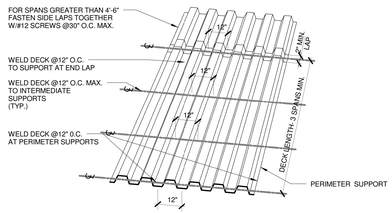
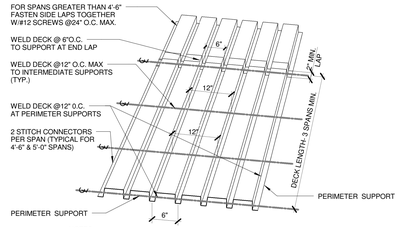


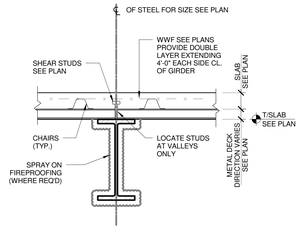
NOTES:
ALL WELDS ARE 5/8"Ø PUDDLE WELDS
WELDING WASHERS SHALL BE USED WHEN WELDING
STEEL DECK OF LESS THAN 22 GUAGE IN THICKNESS.

1 S401 METAL DECK SLAB DECK WELDING
3/4" = 1'-0"

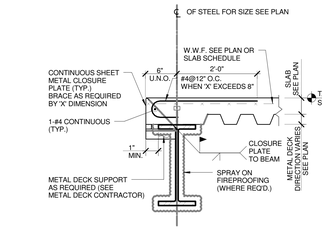


NOTES:
ALL WELDS ARE 3/4"Ø PUDDLE WELDS MIN.
ALL ROOF DECK AND ATTACHMENT TO MEET
OR EXCEED FACTORY MUTUAL REQUIREMENTS.

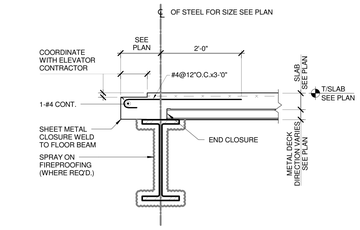
2 S401 METAL DECK ROOF DECK WELDING
3/4" = 1'-0"



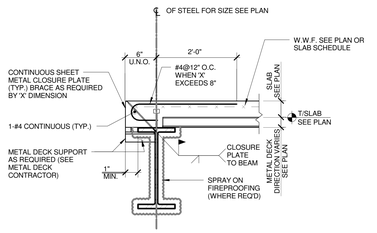
3 S401 METAL DECK FLOOR FRAMING
3/4" = 1'-0"



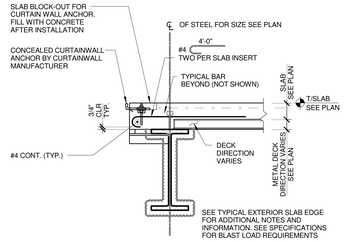
4 S401 METAL DECK SLAB EDGE
3/4" = 1'-0"



5 S401 METAL DECK SLAB EDGE AT ELEVATOR SILL
3/4" = 1'-0"

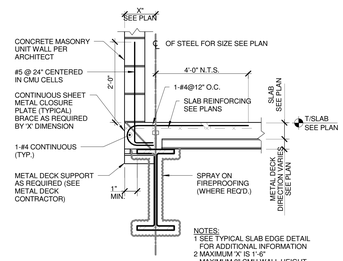


6 S401 METAL DECK SLAB EDGE AT INTERIOR OPENINGS
3/4" = 1'-0"



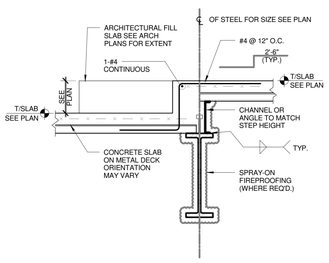
SEE TYPICAL EXTERIOR SLAB EDGE
FOR ADDITIONAL NOTES AND
INFORMATION. SEE SPECIFICATIONS
FOR BLAST LOAD REQUIREMENTS

7 S401 METAL DECK SLAB EDGE CURTAIN WALL ANCHOR
3/4" = 1'-0"

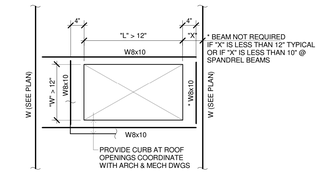


NOTES:
1 SEE TYPICAL SLAB EDGE DETAIL
FOR ADDITIONAL INFORMATION
2 MAXIMUM 'X' IS 1'-6"
MAXIMUM 8" CMU WALL HEIGHT
IS 17'-0".

8 S401 METAL DECK SLAB EDGE SUPPORTING C.M.U. WALL
3/4" = 1'-0"



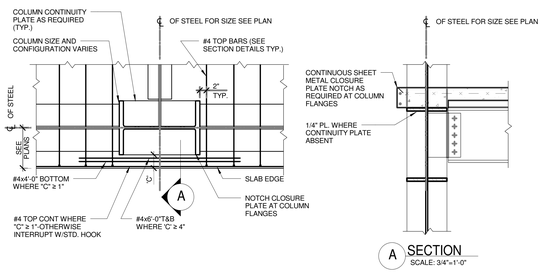
9 S401 METAL DECK REINFORCING OVER GIRDER
3/4" = 1'-0"



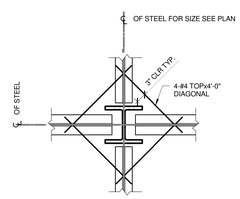
BEAM NOT REQUIRED
IF "X" IS LESS THAN 12" TYPICAL
OR IF "X" IS LESS THAN 10" @
SPANDREL BEAMS

NOTES:
1 COORDINATE. NUMBER AND LOCATION OF OPENINGS
WITH ARCHITECTURAL AND MECHANICAL DRAWINGS
2 ALL BEAMS SHALL HAVE 1 SHEAR STUD PER FOOT
MINIMUM

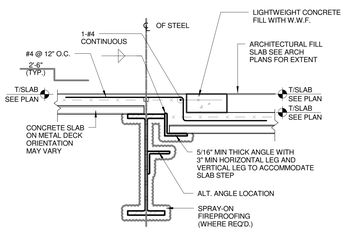
10 S401 METAL DECK SLAB REINFORCING AT CORNER COLUMNS
3/4" = 1'-0"



11 S401 METAL DECK SLAB REINFORCING AT EXTERIOR COLUMNS
3/4" = 1'-0"



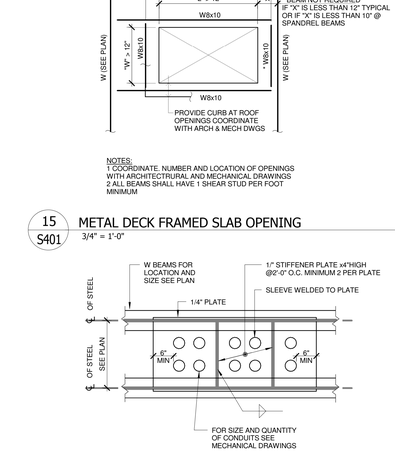
12 S401 METAL DECK REINFORCING AT INTERIOR COLUMNS
3/4" = 1'-0"



NOTES:
SEE METAL DECK DETAILS FOR ADDITIONAL
NOTES AND INFORMATION

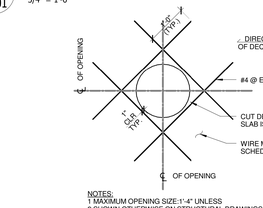
13 S401 METAL DECK SLAB STEP - BEAM HIGH
3/4" = 1'-0"

14 S401 METAL DECK SLAB STEP - BEAM LOW
3/4" = 1'-0"



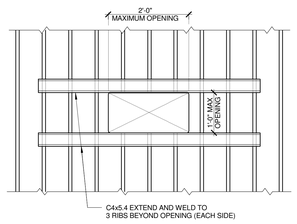
NOTE:
THIS DETAIL APPLIES AT ALL ELECTRICAL AND
TELEPHONE CLOSETS. FOR LOCATION OF CONDUITS
SEE MECHANICAL AND ARCHITECTURAL DRAWINGS

20 S401 METAL DECK SLAB SUPPORT OF CONDUIT
3/4" = 1'-0"

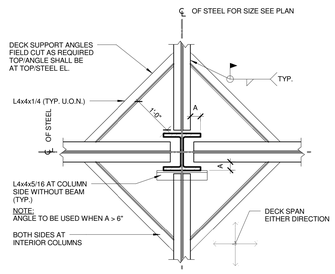


NOTES:
1 MAXIMUM OPENING SIZE:1'-4" UNLESS
2 SHOWN OTHERWISE ON STRUCTURAL DRAWINGS

16 S401 METAL DECK CIRCULAR FLOOR SLEEVE GREATER THAN 6"
3/4" = 1'-0"

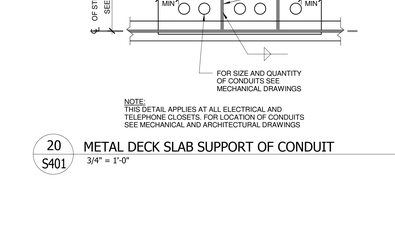


17 S401 METAL DECK OPENINGS UP TO 2' PERPENDICULAR TO ROOF DECK
3/4" = 1'-0"

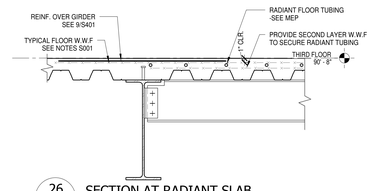


NOTES:
1 NO REINFORCEMENT REQUIRED WHERE "L" IS 6" OR LESS
IN DIRECTION PERPENDICULAR TO DECK.
2 FOR HOLES 6" - OR LESS NO REINFORCING OR
MINIMUM 18 GAUGE PLATE REQUIRED. DEPENDING ON LOCATION

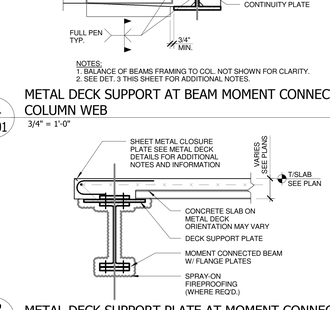
18 S401 METAL DECK OPENINGS UP TO 1' PERPENDICULAR TO ROOF DECK
3/4" = 1'-0"



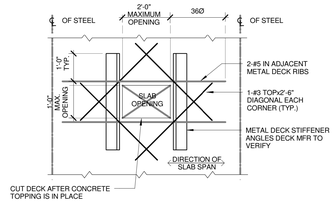
19 S401 METAL DECK SLAB CONDITION BETWEEN OPENINGS
3/4" = 1'-0"



26 S401 SECTION AT RADIANT SLAB
3/4" = 1'-0"



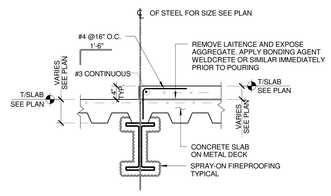
21 S401 METAL DECK SUPPORT AT BEAM MOMENT CONNECTION TO COLUMN WEB
3/4" = 1'-0"



NOTE:
FOR LARGER OPENINGS, VERIFY WITH ENGINEER.

23 S401 METAL DECK UNFRAMED SLAB DETAIL
3/4" = 1'-0"

24 S401 METAL DECK SUPPORT AT INTERIOR OR EXTERIOR COLUMNS
3/4" = 1'-0"



25 S401 METAL DECK HOUSEKEEPING SLAB
3/4" = 1'-0"

drawing title: METAL DECK DETAILS	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES
REVISIONS mark / date / description 11-21-2012 / Bid Documents	volume: 1 of 2
DRAWING: Gilsanz Murray Steficek LLP 129 West 27th St, Fifth Floor New York, NY 10001	date: 11-21-2012 scale: 3/4" = 1'-0"
project: SCSU NEW ACADEMIC LABORATORY BUILDING	drawn by: Author approved by: Checker
CAD file: 10125 project no.: BI-RS-283	drawing no.: S401

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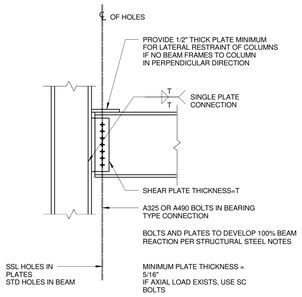
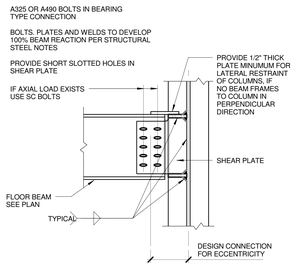
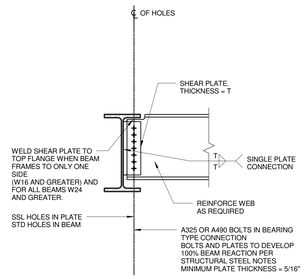


NOTES:
IF SINGLE SHEAR PLATE IS INSUFFICIENT, USE FULL PEN WELDED DOUBLE SHEAR PLATE KNIFE CONNECTION (TYPICAL)

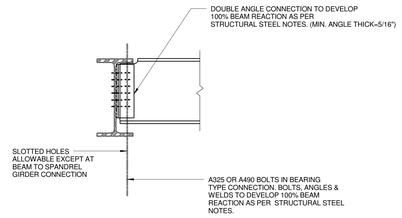
1 S402 BEAM TO COLUMN FLANGE SHEAR CONNECTION
3/4" = 1'-0"



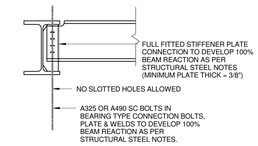
2 S402 BEAM TO COLUMN WEB SHEAR CONNECTION
3/4" = 1'-0"



3 S402 BEAM TO GIRDER CONNECTION
3/4" = 1'-0"

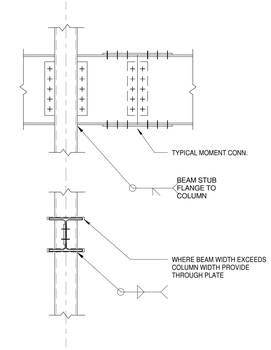


3B S402 ALTERNATE BEAM TO GIRDER SHEAR CONNECTION
3/4" = 1'-0"

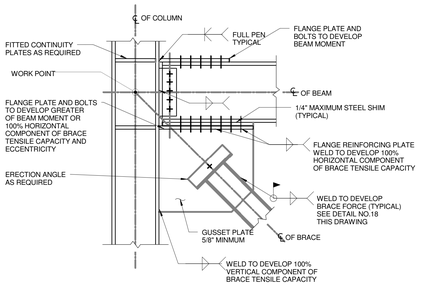


NOTE:
DESIGN BOLTS AND PLATE FOR SHEAR CONNECTION PER NOTES ON DWG. S.O IN ADDITION TO 10 FT-K MOMENT

4 S402 BEAM TO SPANDREL CONNECTION
3/4" = 1'-0"

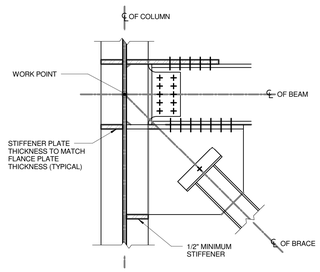


5 S402 TUBE STEEL CONNECTIONS
3/4" = 1'-0"



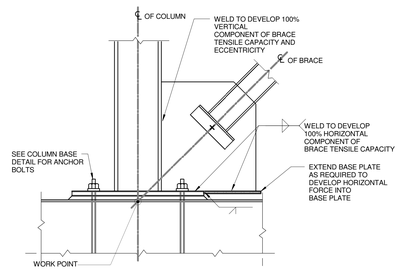
NOTES:
1. DESIGN BRACING CONNECTION FOR 100% TENSION CAPACITY OF THE BRACE, 0.9*Fy*Ag OR 0.75 *Fu*Ae, WHICHEVER CONTROLS.
2. ALL BOLTS SLIP CRITICAL
3. BEAM MOMENT = 0.9xFyxZ

6 S402 BRACE CONNECTION AT COLUMN FLANGE
3/4" = 1'-0"



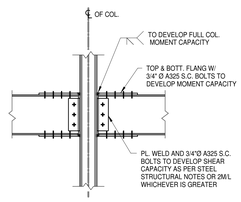
NOTES:
1. FOR ADDITIONAL CONNECTION REQUIREMENTS AND INFORMATION NOT SHOWN SEE DETAIL 6 ON THIS DRAWING

7 S402 BRACE CONNECTION AT COLUMN WEB
3/4" = 1'-0"

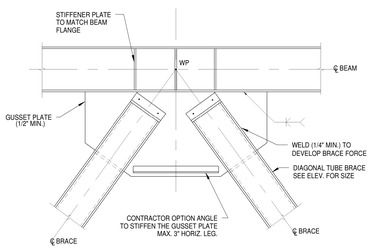


NOTES:
1. FOR ADDITIONAL CONNECTION REQUIREMENTS AND INFORMATION NOT SHOWN SEE DETAIL 6 ON THIS DRAWING

8 S402 BRACE CONNECTION AT COLUMN BASE
3/4" = 1'-0"

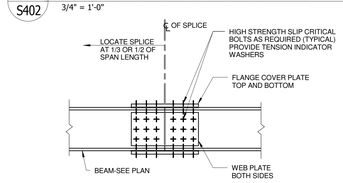


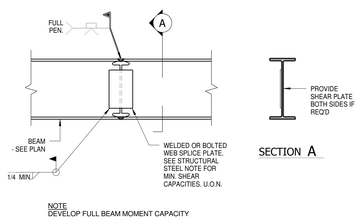
9 S402 GIRDER TO TUBE COL. BOLT TO BEAM, WELD TO COL.
3/4" = 1'-0"



NOTES:
1. PLATES & WELDS TO DEVELOP SCHEDULED MEMBER FORCE.
2. FOR ADD'L CONN. REQUIREMENTS AND INFO. NOT SHOWN SEE DET. 1 ON THIS DWG.

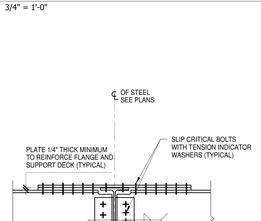
10 S402 TYPICAL BRACE CONNECTION AT BEAM
1/2" = 1'-0"





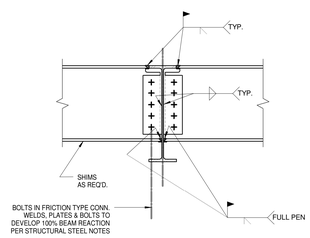
NOTE
DEVELOP FULL BEAM MOMENT CAPACITY

11 S402 STEEL BEAM SPLICE ALTERNATES
3/4" = 1'-0"

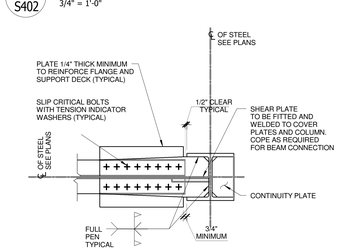


NOTES:
1 MOMENT CONNECTION SHALL DEVELOP FULL PLASTIC MOMENT CAPACITY OF BEAMS U.O.N.
2 FOR UPSET BEAMS, SUBMIT CONNECTION DETAIL THAT PROVIDES SUFFICIENT CLEARANCE TO TOP OF SLAB.

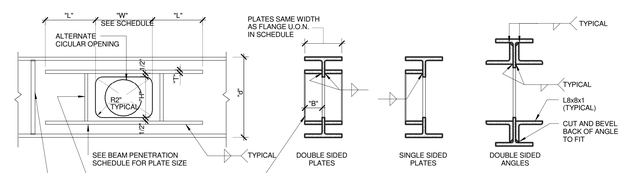
12 S402 BEAM TO BEAM MOMENT CONNECTION ALTERNATES
3/4" = 1'-0"



13 S402 BEAM TO COLUMN WEB MOMENT CONNECTION
3/4" = 1'-0"



NOTES:
1 BALANCE OF BEAMS FRAMING TO COLUMN NOT SHOWN FOR CLARITY
2 MOMENT CONNECTION SHALL DEVELOP FULL PLASTIC MOMENT CAPACITY OF BEAMS U.O.N.
3 FOR UPSET BEAMS, SUBMIT CONNECTION DETAIL THAT PROVIDES SUFFICIENT CLEARANCE TO TOP OF SLAB

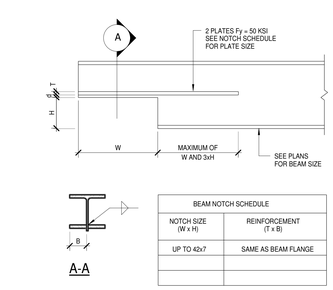


BEAM PENETRATION SCHEDULE			
OPENING SIZE (W x H)	REINFORCEMENT (T x B) x L	COMMENT	MIN. SIZE
UP TO 45x15	5/8x4x12"	DOUBLE PLATE	W30
UP TO 10" DIA.	10" SCH 80 PIPE	DOUBLE PLATE	W21

NOTES:
1. ALL BEAM PENETRATIONS ARE CENTERED ON BEAM U.O.N.
2. SEE PLANS FOR MARKS (P) FOR PENETRATION LOCATIONS

NOTES:
1. OPENINGS WITH STIFFENERS HAVE REINFORCED. DOUBLE SIDES.
2. ALLOW FOR ADDITIONAL FIELD FABRICATED OPEININGS AS FOLLOWS:
20-8" DIA.
10-30x10

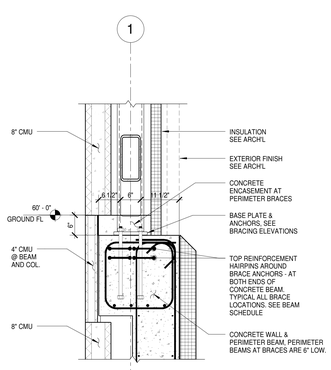
14 S402 RECTANGULAR & CIRCULAR BEAM PENETRATION
3/4" = 1'-0"



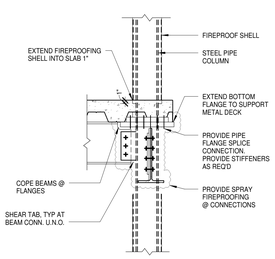
BEAM NOTCH SCHEDULE	
NOTCH SIZE (W x H)	REINFORCEMENT (T x B)
UP TO 42x7	SAME AS BEAM FLANGE

NOTES:
1. SEE PLAN FOR MARKS (C) FOR PENETRATION LOCATIONS.
2. MAXIMUM H IS 1/3 OF BEAM DEPTH.

15 S402 TYPICAL DUCT PENETRATION AT BEAM END
3/4" = 1'-0"

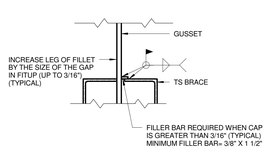


16 S402 SECTION AT BRACE ANCHORS
3/4" = 1'-0"

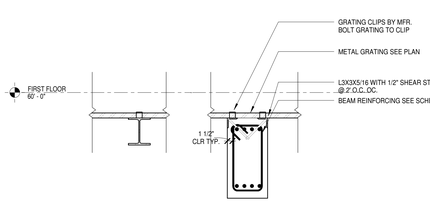


NOTE: FLANGE CONNECTION TO DEVELOP BENDING STRENGTH OF PIPE

17 S402 FIREPROOF SHELL COLUMN SPLICE DETAIL
3/4" = 1'-0"



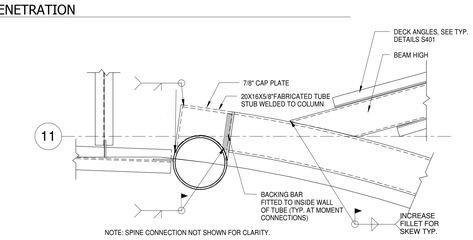
18 S402 BRACE WELD TO GUSSET
1" = 1'-0"



NOTE: ALL STEEL EXPOSED TO WEATHER TO BE GALVANIZED.

19 S402 METAL GRATING
3/4" = 1'-0"

20 S402 TUBE STEEL CONNECTIONS AT OFFSET BEAMS
3/4" = 1'-0"



NOTE: SPINE CONNECTION NOT SHOWN FOR CLARITY.

drawing title: TYPICAL DETAILS I

REVISIONS

mark	date	description
	11-21-2012	Bid Documents

STATE OF CONNECTICUT
DEPARTMENT OF CONSTRUCTION SERVICES

DRAWING PREPARED BY
Gilsanz Murray Steficek LLP
129 West 27th St, Fifth Floor
New York, NY 10001

project: SCSU NEW ACADEMIC LABORATORY BUILDING

CAD no. 10125 | project no. BI-RS-283

sheet no. of no.: 1 of 2
date: 11-21-2012
scale: As indicated
drawn by: Author
checker: Checker
drawing no.: S402

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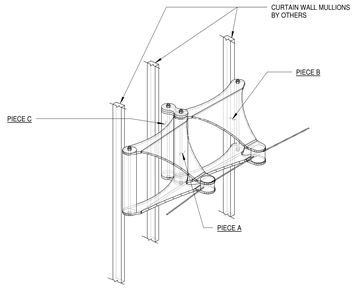
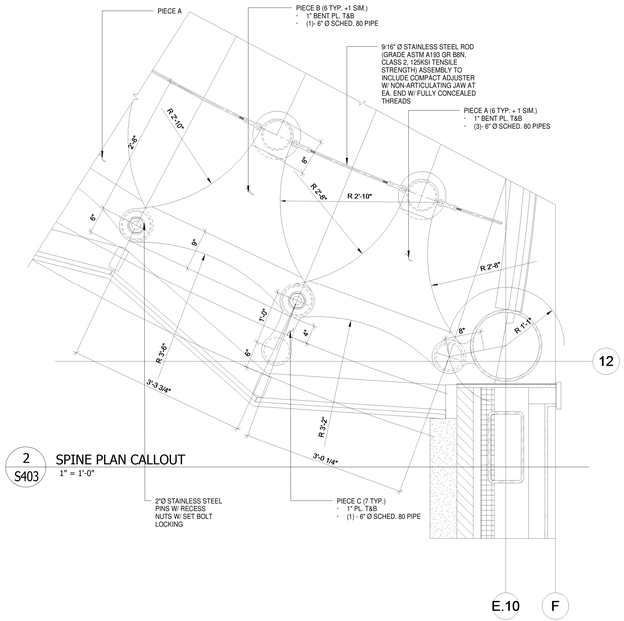
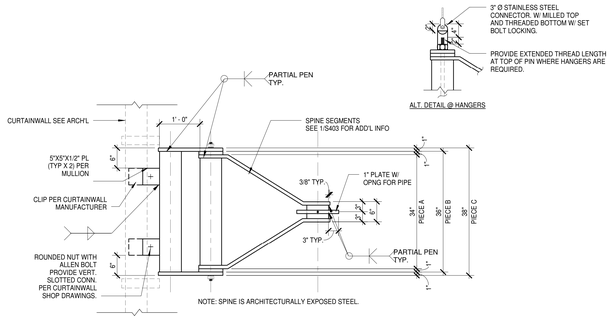


NOTES:
1. ALL DIMENSIONS TO BE FIELD VERIFIED PRIOR TO FABRICATING SPLINE.
2. SPLINE TO BE FULLY ASSEMBLED IN THE PLANT PRIOR TO SHIPPING.
3. ALL HOLES TO RECEIVE PINS TO BE DRILLED THEN REAMED TO PROVIDE SNUG FIT FOR PIN.
4. PINS TO COME WITH DRIVING NUTS AND LONG PILOT NUTS TO PROTECT THE PIN THREADS DURING FIELD INSTALLATION.
5. SPLINE TO BE FULLY SHORED DURING FIELD INSTALLATION AND SHORING TO REMAIN IN PLACE UNTIL ALL ELEMENTS ARE FULLY CONNECTED AND THE RODS ARE TENSIONED AND THE HANGERS TENSIONED TO JUST LIFT THE ASSEMBLY OFF THE SHORING.
6. SUPPORT DETAILS AT COLUMNS TO DUPLICATE PIECE A TO PIECE B CONNECTION WITH TOP PLATES FULL PENETRATION WELDED TO COLUMNS.
7. NOTE THAT THE LAST PIECES BEFORE THE COLUMN HAVE DIFFERENT PLAN DIMENSIONS THAN THE REST OF THE PIECES, SEE ARCH DRAWINGS FOR DIMENSIONS AND COORDINATE WITH CURTAIN WALL SHOP DRAWINGS AND FIELD DIMENSION.
8. WHERE THE 3/8" DIA. ROD TERMINATES AT THE HSS20X12, PROVIDE A 4"DIA. PIPE SLEEVE THROUGH THE HSS WITH A ½" THICK END PLATE ON THE FAR SIDE OF THE TUBE - PERPENDICULAR TO THE ROD AND SLEEVE. EXTEND FRONT OF SLEEVE TO FACE OF ARCH. FINISH. COORDINATE WITH ARCH DRAWINGS. ANCHOR ROD THROUGH THIS SLEEVE AND THE PLATE ON THE FAR END.
9. ALL STEEL TO BE FABRICATED AS PER ARCHITECTURAL STEEL SPECIFICATIONS.
10. COORDINATE ALL WORK POINTS AND CURTAIN WALL CONNECTION DETAILS WITH ARCH DRAWINGS, FINAL APPROVED CURTAIN WALL SHOP DRAWINGS AND FIELD VERIFIED DIMENSIONS.

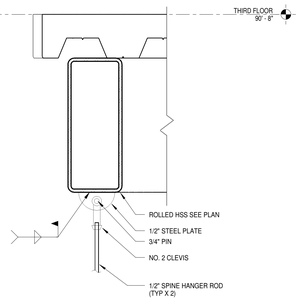
1 / S403 TYPICAL SPINE SEGMENTS - ARCHITECTURALLY EXPOSED
12" = 1'-0"



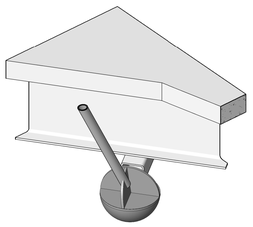
2 / S403 SPINE PLAN CALLOUT
1" = 1'-0"



3 / S403 MULLION LATERAL SUPPORT AT SPINE
3/4" = 1'-0"

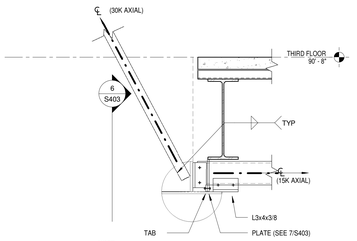


3B / S403 TYP. SPINE HANGER ROD
1 1/2" = 1'-0"



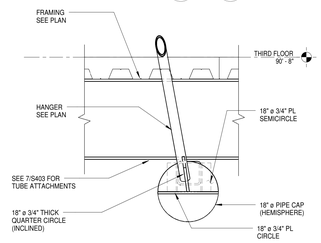
NOTE:
SUSPENSION CONNECTION & HANGERS TO BE ARCHITECTURALLY EXPOSED STEEL.

4 / S403 SUSPENSION CONNECTION



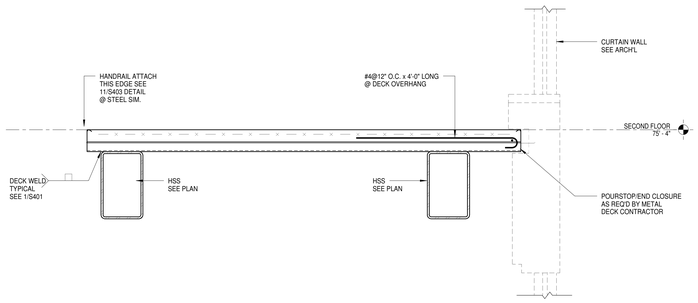
NOTE:
SUSPENSION CONNECTION & HANGERS TO BE ARCHITECTURALLY EXPOSED STEEL.

5 / S403 SUSPENDED CONNECTION SECTION I
3/4" = 1'-0"

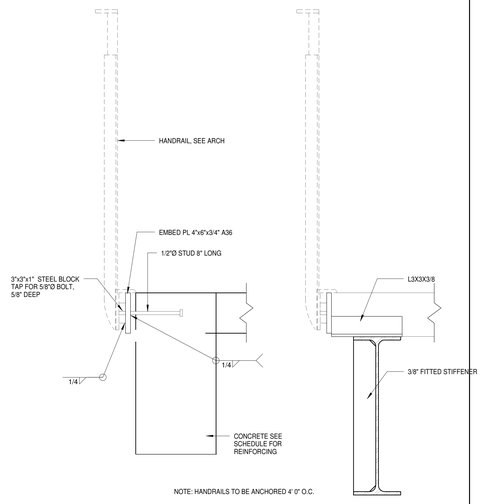


NOTE:
SUSPENSION CONNECTION & HANGERS TO BE ARCHITECTURALLY EXPOSED STEEL.

6 / S403 SUSPENSION CONNECTION ELEVATION
3/4" = 1'-0"

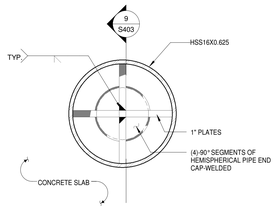


7 / S403 SECTION THROUGH SECOND FLOOR BRIDGE
3/4" = 1'-0"



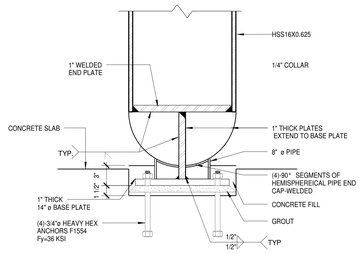
NOTE: HANDRAILS TO BE ANCHORED 4' 0" O.C.

12 / S403 TYPICAL HANDRAIL EMBED PLATE
1 1/2" = 1'-0"



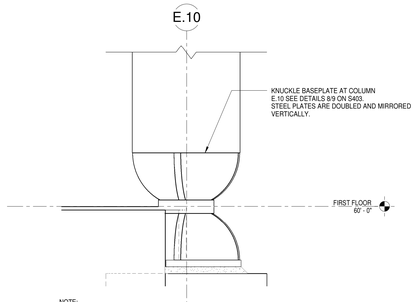
NOTE: KNUCKLE STEEL COLUMNS & BASE PLATES TO BE ARCHITECTURALLY EXPOSED STEEL. (x4 COL'S)

8 / S403 BASEPLATE AT KNUCKLE PLAN
1 1/2" = 1'-0"



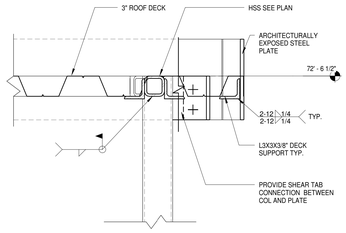
NOTE:
KNUCKLE STEEL COLUMNS & BASE PLATES TO BE ARCHITECTURALLY EXPOSED STEEL. (x4 COL'S)

9 / S403 BASEPLATE AT KNUCKLE SECTION
1 1/2" = 1'-0"

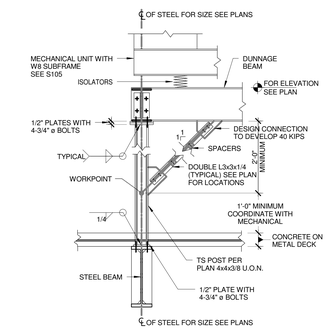


NOTE:
KNUCKLE STEEL COLUMNS & BASE PLATES TO BE ARCHITECTURALLY EXPOSED STEEL. (x4 COL'S)

10 / S403 KNUCKLE BASEPLATE COLUMN E.10 VARIATION
1 1/2" = 1'-0"

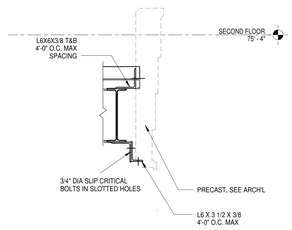


11 / S403 SECTION AT KNUCKLE VESTIBULE
1 1/2" = 1'-0"

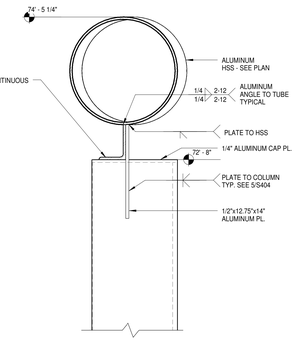


NOTE: COORDINATE ALL DIMENSIONS RELATED TO THE COOLING TOWER DUNNAGE WITH THE FINAL APPROVED MECHANICAL EQUIPMENT SHOP DRAWINGS INCLUDING THE ISOLATORS.

17 / S403 DUNNAGE STUB UP
3/4" = 1'-0"

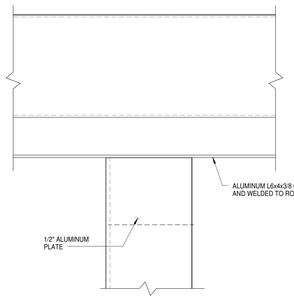


18 / S403 CANOPY PRECAST SUPPORT
3/4" = 1'-0"



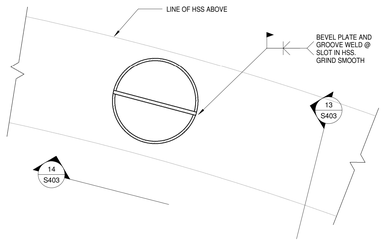
NOTE:
1. ALL ALUMINUM TO BE TYPE 6061-T6.
2. ALL ALUMINUM IS ARCHITECTURALLY EXPOSED.

13 / S403 SECTION AT COLUMN WATER FEATURE
1 1/2" = 1'-0"



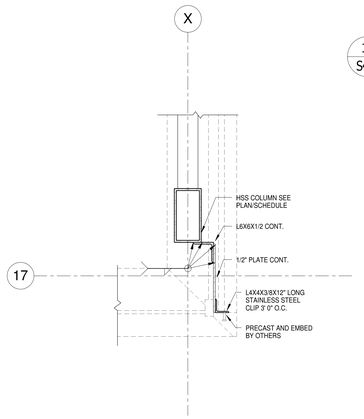
NOTES:
1. ALL ALUMINUM TO BE TYPE 6061-T6.
2. SEE 13/S404 FOR WELD INFORMATION.
3. ALL ALUMINUM IS ARCHITECTURALLY EXPOSED

14 / S403 SECTION AT TRELLIS COLUMN HSS
1 1/2" = 1'-0"

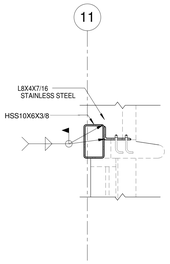


NOTE:
1. ALL ALUMINUM TO BE TYPE 6061-T6.
2. ALL ALUMINUM IS ARCHITECTURALLY EXPOSED

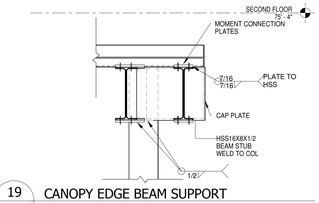
15 / S403 PLAN DETAIL OF TRELLIS COLUMN
1 1/2" = 1'-0"



16 / S403 KNIFE EDGE CORNER
3/4" = 1'-0"



20 / S403 PRECAST SUPPORT AT WEST WALL
3/4" = 1'-0"



19 / S403 CANOPY EDGE BEAM SUPPORT
3/4" = 1'-0"

drawing title: TYPICAL DETAILS II	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		volume: 1 of 2
REVISIONS			date: 11-21-2012
mark / date / description	DRAWING		scale: As indicated
11-21-2012 Bid Documents	Gilsanz Murray Steficek LLP, 129 West 27th St, Fifth Floor, New York, NY 10001		drawn by: Author
	PROJECT: SCSU NEW ACADEMIC LABORATORY BUILDING		reviewed by: Checker
	CAD: 10125	project no.: BI-RS-283	drawing: S403

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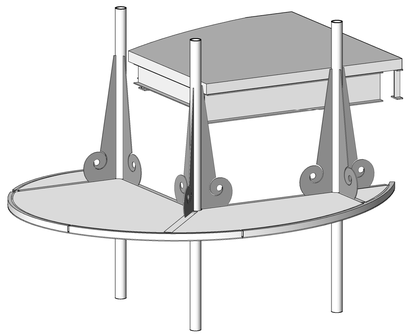
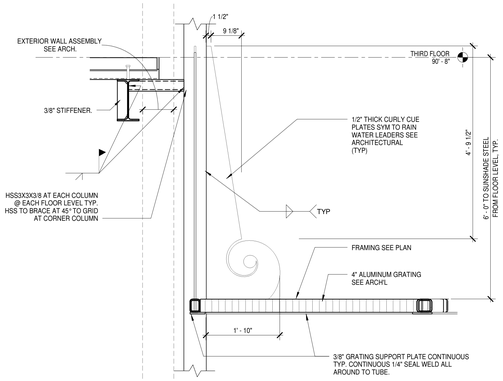
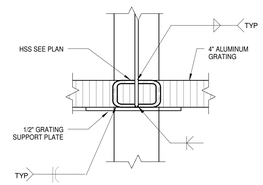


1 S404 SUNSCREEN - ARCHITECTURALLY EXPOSED

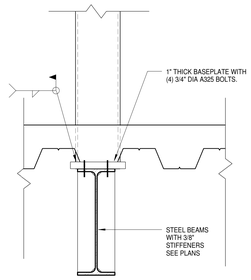


NOTE: ALL EXTERIOR STEEL TO BE HOT DIP GALVANIZED U.N.O.

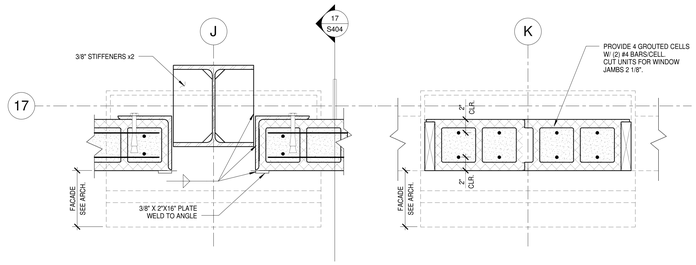
2 S404 SUNSCREEN ELEVATION
3/4" = 1'-0"



3 S404 SUNSCREEN SECTION
1 1/2" = 1'-0"



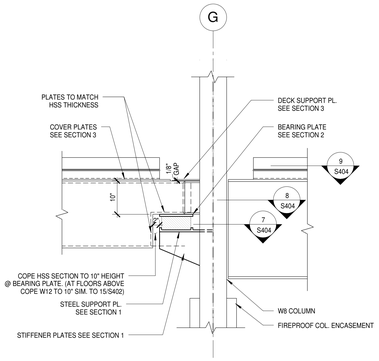
4 S404 TYPICAL COLUMN BASE AT SUNSCREEN
1 1/2" = 1'-0"



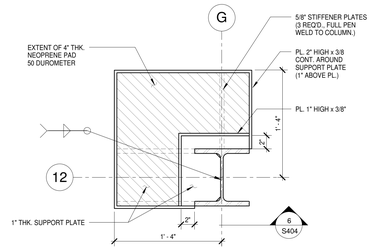
SECTION AT COLUMN AT MASONRY BOND BEAM

SECTION OF PIER AT WINDOW

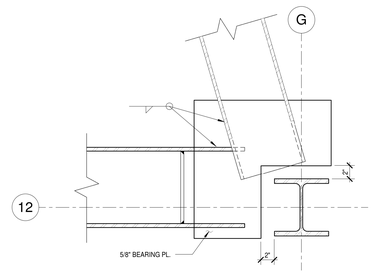
5 S404 MASONRY PIERS AT WINDOWS
1 1/2" = 1'-0"



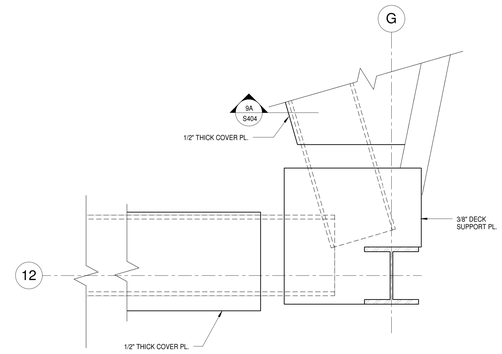
6 S404 EXPANSION JOINT ELEVATION SECTION
3/4" = 1'-0"



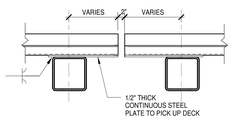
7 S404 EXPANSION JOINT PLAN SECTION 1
1 1/2" = 1'-0"



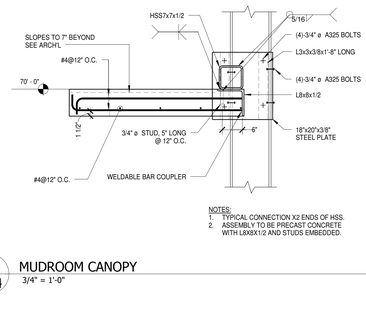
8 S404 EXPANSION JOINT PLAN SECTION 2
1 1/2" = 1'-0"



9 S404 EXPANSION JOINT PLAN SECTION 3
1 1/2" = 1'-0"

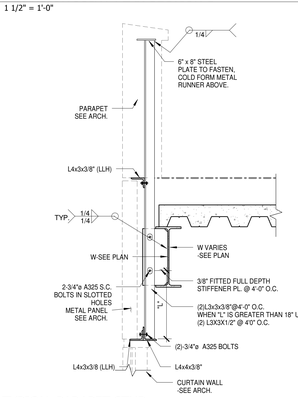


9A S404 SEISMIC JOINT
3/4" = 1'-0"

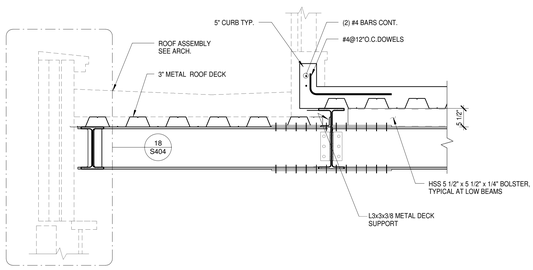


NOTES:
1. TYPICAL CONNECTION X2 ENDS OF HSS.
2. ASSEMBLY TO BE PRECAST CONCRETE WITH L8X8X1/2 AND STUDS EMBEDDED.

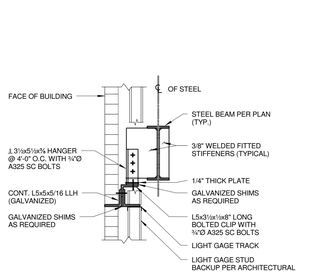
10 S404 MUDROOM CANOPY
3/4" = 1'-0"



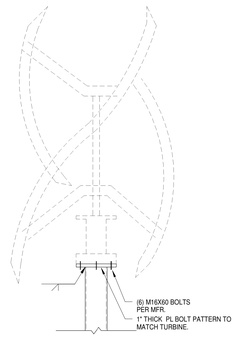
11 S404 TYPICAL PARAPET STUB
3/4" = 1'-0"



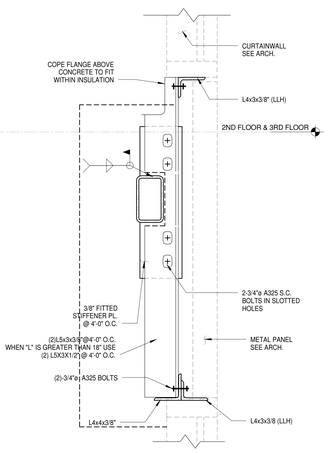
12 S404 SECTION AT BAY ROOF
3/4" = 1'-0"



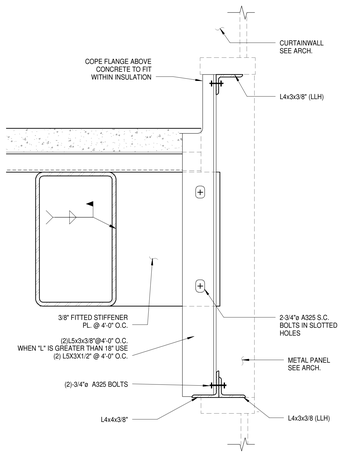
13 S404 MASONRY SUPPORT DETAIL AT RELIEVING ANGLE1
3/4" = 1'-0"



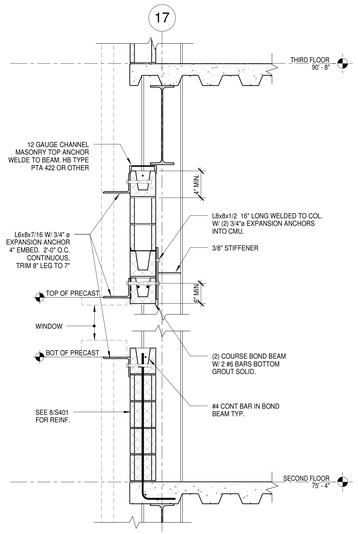
14 S404 WIND TURBINE CONNECTION
3/4" = 1'-0"



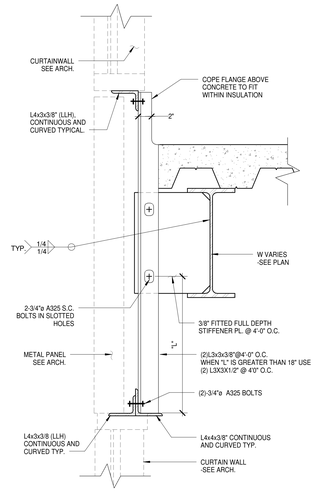
15 S404 CURTAINWALL SUPPORT AT HSS7
1 1/2" = 1'-0"



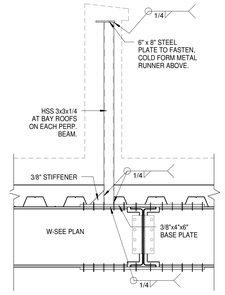
16 S404 TYPICAL METAL PANEL SUPPORT AT HSS 20
1 1/2" = 1'-0"



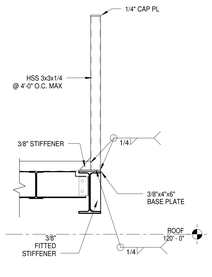
17 S404 TYPICAL MASONRY RELIEVING ANGLES
3/4" = 1'-0"



18 S404 TYPICAL METAL PANEL AT CURTAINWALL SUPPORT
1 1/2" = 1'-0"



19 S404 PARAPET SUPPORT AT BAYS
3/4" = 1'-0"



20 S404 PARAPET ON MECH ROOF
3/4" = 1'-0"

drawing title: TYPICAL DETAILS III	STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION SERVICES		volume: 1 of 2
REVISIONS			
mark / date / description	DRAWING: Gilsanz Murray Steficek LLP, 129 West 27th St, Fifth Floor, New York, NY 10001		date: 11-21-2012
11-21-2012 Bid Documents			scale: As indicated
	project: SCSU NEW ACADEMIC LABORATORY BUILDING		drawn by: Author
			approved by: Checker
	CAD: 10125	project no.: BI-RS-283	drawing no.: S404

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