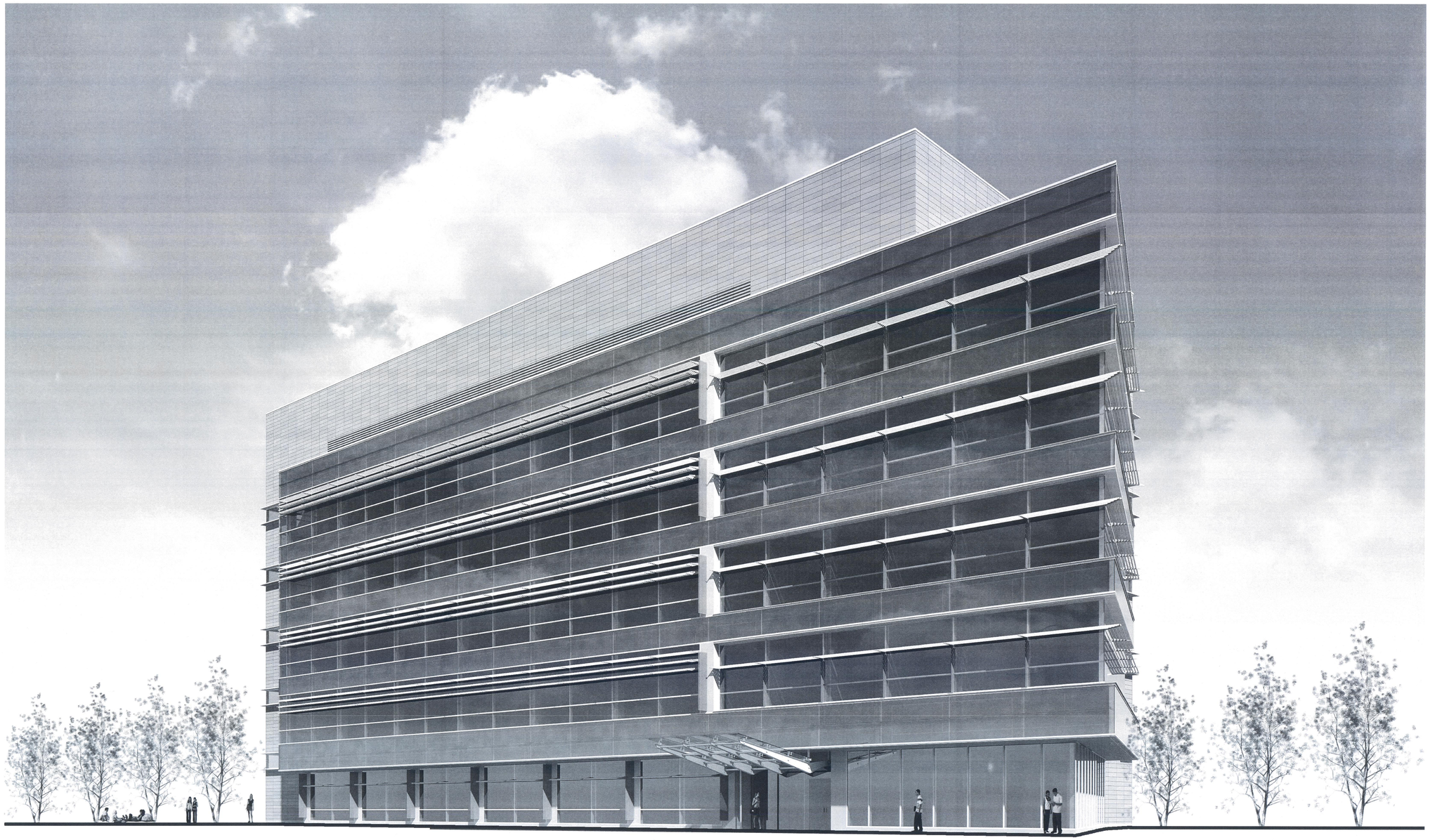

THE UNIVERSITY OF CONNECTICUT
NEW ENGINEERING AND SCIENCE BUILDING
STORRS, CT 06269
UCONN PROJECT NO. 901376
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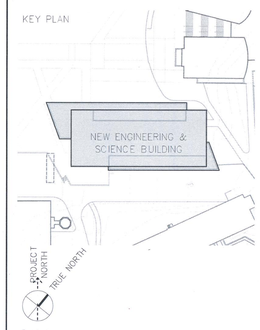
KEY PLAN



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NEW ENGINEERING & SCIENCE BUILDING

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AVC	AV DETAILS

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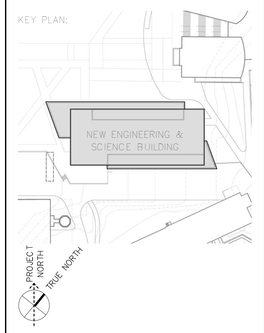

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1 HVAC LEGEND (SYMBOLS)

PLAN SYMBOLS

HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
SHWS	SECONDARY HOT WATER SUPPLY
SHWR	SECONDARY HOT WATER RETURN
CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER RETURN
PCHS	PROCESS CHILLED WATER SUPPLY
PCHR	PROCESS CHILLED WATER RETURN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
CLPS	CLEAN LOW PRESSURE STEAM
LPS	LOW PRESSURE STEAM
LPR	LOW PRESSURE RETURN
MPS	MEDIUM PRESSURE STEAM
MPR	MEDIUM PRESSURE RETURN
HPS	HIGH PRESSURE STEAM
HPR	HIGH PRESSURE RETURN
CW	COLD WATER
PC	PUMPED CONDENSATE
D	DRAIN
V	VENT
GL	GAUGE
G	GAS
FOF	FUEL OIL FILL
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
FOV	FUEL OIL VENT
BF	BOILER FEED
BD	BOILER BLOW DOWN
CF	CHEMICAL FEED
ECHS	PIPING PRECEDED WITH AN "E" SHALL BE EXISTING (EXAMPLE: EXISTING CHILLED WATER SUPPLY)

GATE VALVE
GLOBE VALVE
ANGLE GLOBE
BALL VALVE
NEEDLE VALVE
LOCK SHIELD VALVE
BUTTERFLY VALVE
LUBRICATED PLUG VALVE
FLOW CONTROL BALANCING VALVE
CONSTANT FLOW VALVE
QUICK ACTING VALVE
HOSE END VALVE WITH CAP & CHAIN
PNEUMATIC AUTOMATIC VALVE (TWO WAY)
PNEUMATIC AUTOMATIC VALVE (THREE WAY)
ELECTRIC MOTORIZED AUTOMATIC VALVE
ELECTRIC SLOW ACTING SOLENOID VALVE
ELECTRIC SOLENOID VALVE
RELIEF VALVE OR SAFETY VALVE
FUSIBLE LINK VALVE
PRESSURE REDUCING VALVE
CHECK VALVE
PIPE GUIDE
PIPE ANCHOR
CONCENTRIC REDUCER
ECCENTRIC REDUCER
MANUAL AIR VENT
AUTOMATIC AIR VENT
VACUUM BREAKER
EXPANSION JOINT

HOSE END WITH CAP AND CHAIN
BALL JOINT
FLEXIBLE CONNECTION
UNION
FLANGE
STRAINER ASSEMBLY
PRESSURE GAUGE ASSEMBLY
PRESSURE TEMPERATURE TAP WITH CAP
THERMOMETER WELL
TRAP
TRAP ASSEMBLY
PIPE TURNED UP
PIPE TURNED DOWN
ORIFICE
VENTURI METER ASSEMBLY
METER
TURBINE METER ASSEMBLY
VORTEX SHEDDING METER ASSEMBLY
FLOW INDICATING ASSEMBLY
THERMOMETER
PRESSURE SENSOR
TEMPERATURE SENSOR
FINNED TUBE RADIATION
A = TYPE
B = LENGTH IN FEET

DUCT UNDER POSITIVE PRESSURE
DUCT UNDER NEGATIVE PRESSURE
(Q) AxB–C–XX — AIR OUTLET LABEL
Q = QUANTITY
AxB = NECK SIZE
C = TYPE
XX = CFM
AP — ACCESS PANEL (ACCESS DOOR)
R — RISE
D — DROP

SYMBOL WITH NO MARK IS A MANUAL OBD
FD FIRE DAMPER
VD OPPOSED BLADE VOLUME DAMPER
AD AUTOMATIC DAMPER OPPOSED BLADE
SD SMOKE DAMPER
FSD FIRE SMOKE DAMPER
BDD BACK DRAFT DAMPER

SQUARE ELBOW WITH TURNING VANES
FLEXIBLE DUCTWORK
FLEXIBLE CONNECTION
TRANSFER OPENING ABOVE HUNG CEILING ("A" SQUARE FEET FREE AREA)
L/A — DOOR LOUVER ("A" CFM)
UC/A — DOOR UNDER CUT ("A" CFM)
THERMOSTAT
HUMIDISTAT
CONNECT TO EXISTING

VAV BOX
VAV BOX WITH COIL
AB–C — VAV BOX DESIGNATION NUMBER
A = SUPPLY, EXHAUST OR HAZ EXH
B = FLOOR
C = DESIGNATION NUMBER
AIR SIDE
A = BOX TYPE AND SIZE
B = MAX CFM
C = MIN CFM
D = SPACE FOR CONTRACTOR TO ADD ATC ADDRESS ON AS BUILTS
WATER SIDE
A = BOX TYPE AND SIZE
B = HEATING CFM
C = GPM
D = SPACE FOR CONTRACTOR TO ADD ATC ADDRESS ON AS BUILTS
COMBINED DRAWING
A = BOX TYPE AND SIZE
B = MAX CFM
C = MIN CFM
D = SPACE FOR CONTRACTOR TO ADD ATC ADDRESS ON AS BUILTS
E = HEATING CFM
F = GPM

X/Z — DETAIL REFERENCE (DETAIL "X" ON DRAWING "Z")
Z/X — SECTION MARK (SECTION "X" ON DRAWING "Z")
REFERENCE LINE
SMD — SMOKE DETECTOR
FS — FLOW SWITCH
DDC — DDC CONTROL PANEL
LCP — LOCAL CONTROL PANEL

DIAGRAM SYMBOLS

PUMP
FAN (AXIAL)
CENTRIFUGAL FAN
PROPELLER FAN
DUCT CAP
TO BE REMOVED
STARTING OR STOPPING POINT OF DEMOLITION. PROVIDE TEMPORARY CAP

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2 HVAC LEGEND (ABBREVIATIONS)

A/C	AIR CONDITIONING
ABS	ABSOLUTE
AD	AUTOMATIC DAMPER
AFF	ABOVE FINISHED FLOOR
ALUM.	ALUMINUM
AMPS	AMPERES
AP	ACCESS PANEL
ATM.	ATMOSPHERE
AUTO.	AUTOMATIC
AVG	AVERAGE
BFC	BELOW FINISHED CEILING
BHP	BRAKE HORSE POWER
BP	BEAM PENETRATION
BT	BOTTOM THROAT
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CO	CLEAN OUT
DB	DRY BULB OR DECIBELS
DDC	DIRECT DIGITAL CONTROL
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB TEMPERATURE
EP	ELECTRIC PNEUMATIC
ETR	EXISTING TO REMAIN
EWB	ENTERING WET BULB TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
FA	FREE AREA IN SQUARE FEET
FC	FAIL CLOSED; FLEXIBLE CONNECTION
FLA	FULL LOAD AMPS
FLX	FLEXIBLE CONNECTION
FO	FAIL OPEN
FPF	FINS PER FOOT
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
GAL.	GALLON
GALV	GALVANIZED
GEN.	GENERATOR
GC	GENERAL CONTRACTOR
GPH	GALLON PER HOUR
GPM	GALLON PER MINUTE
HB	HOSE BIB
HP	HORSE POWER
HVAC	HEATING VENTILATING AND AIR–CONDITIONING
HZ	HERTZ
IN	INCHES
IN H_2O	INCHES OF WATER
IN W.G.	INCHES OF WATER GAUGE
K.W.	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB TEMPERATURE
LRA	LOCK ROTOR AMPS
LWT	LEAVING WATER TEMPERATURE
LWB	LEAVING WET BULB TEMPERATURE
MER	MECHANICAL EQUIPMENT ROOM
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
O.C.	ON CENTER
OED	OPEN END DUCT
OZ	OUNCE
PE	PNEUMATIC ELECTRIC
PH	PHASE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
RA	RETURN AIR
RPM	REVOLUTIONS PER MINUTE
S/S	STAINLESS STEEL
SA	SUPPLY AIR
SD	SPLITTER DAMPER
SEC	SECOND
SP	STATIC PRESSURE
SPECS	SPECIFICATIONS
SQ. FT.	SQUARE FOOT
STD	STANDARD
T	THROAT
TEMP.	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TT	TOP THROAT
TYP.	TYPICAL
UL	
V	VOLTAGE
W	WIDTH, WEST, WATER
W/	WITH
W/O	WITHOUT
WB	WET BULB
WMS	WIRE MESH SCREEN

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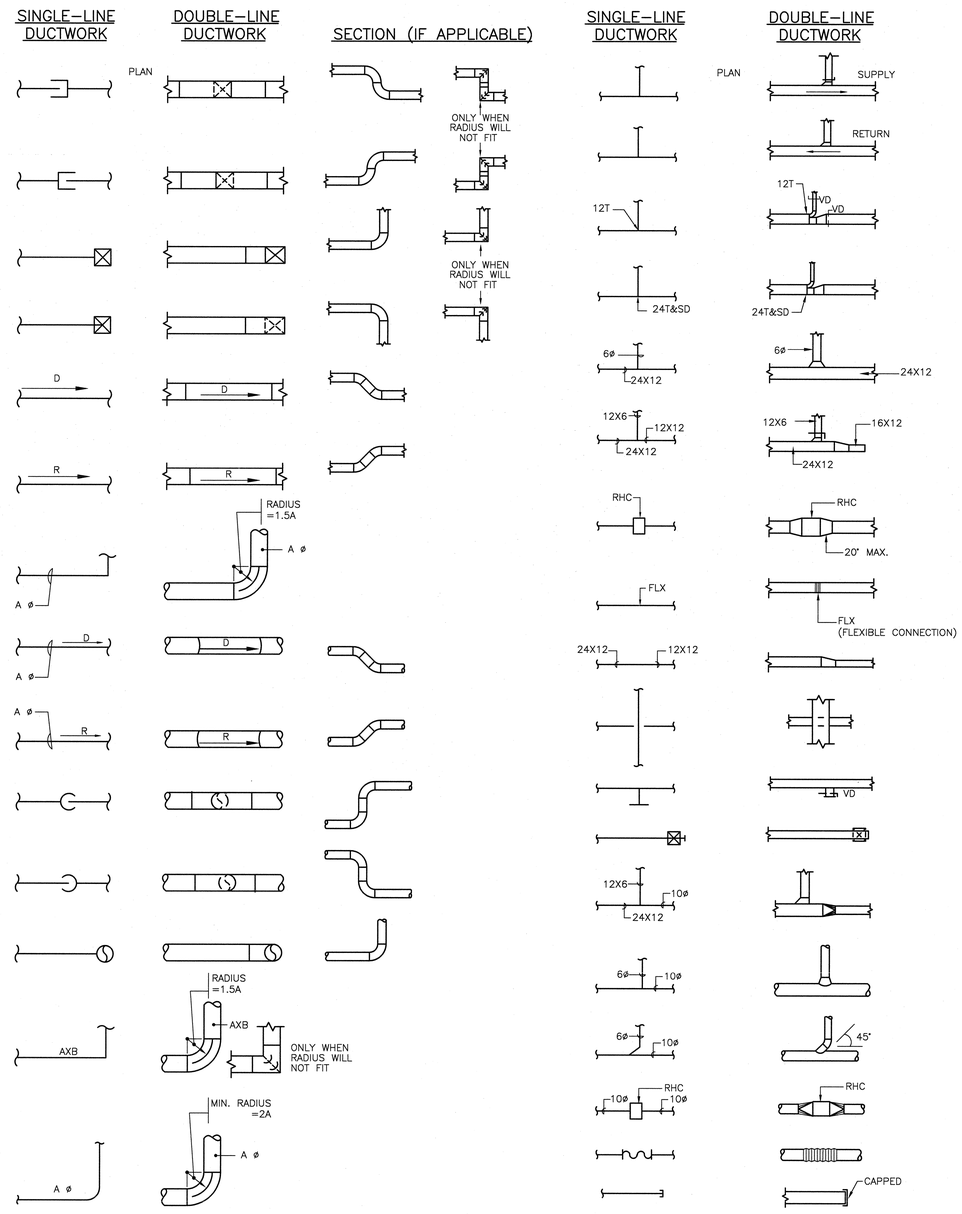
3 HVAC LEGEND (SINGLE AND DOUBLE–LINE DUCTWORK)



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4 HVAC LEGEND (EQUIPMENT DESIGNATION)

VCV–1 — EQUIPMENT DESIGNATION / NUMBER

ACP	AIR COMPRESSOR
AEL	AIR ELIMINATOR
AHU	AIR HANDLING UNIT
AWH	AIR WASHER
ABS	STEAM ABSORBTION
ACCH	AIR COOLED CHILLER
ACC	AIR COOLED CONDENSER
BFP	BOILER FEED PUMP
BLR	BOILER
CC	COOLING COIL
CFP	CHEMICAL FEED PUMP
CH	CHILLER
CHP	CHILLED WATER PUMP
CONV	CONVERTER
CP	CONDENSATE PUMP
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CWP	CONDENSER WATER PUMP
CV	CONSTANT VOLUME BOX
CAC	COMPUTER ROOM A/C UNIT
DEA	DEAERATOR
DCR	DRY COOLER
DD	DUAL DUCT
EC	EVAPORATIVE COOLER
EF	EXHAUST FAN
F	FILTER
FCU	FAN COIL UNIT
FF	FINAL FILTER
FOP	FUEL OIL PUMP
FTK	FLASH TANK
FCV	FAN POWERED CONSTANT VOLUME BOX
FVV	FAN POWERED VARIABLE VOLUME BOX
FMS	FLOW MEASURING STATION
GX	GENERAL EXHAUST
GLYP	GLYCOL PUMP
HC	HEATING COIL
HVU	HEATING AND VENTILATING UNIT
HWP	HOT WATER PUMP
HX	HOOD EXHAUST
HE	HEAT EXCHANGER
H	HUMIDIFIER
MCP	MAIN CONDENSATE PUMP
PF	PRE–FILTER
PHC	PREHEAT COIL
PRV	PRESSURE REDUCING VALVE
RF	RETURN FAN
RHC	REHEAT COIL
RTU	ROOF TOP PACKAGE A/C UNIT
RGH	ROOF MOUNTED GRAVITY HOOD
RP	RADIANT CEILING PANEL
SA	SOUND ATTENUATOR
SCB	SCRUBBER
SCHP	SECONDARY CHILLED WATER PUMP
SEP	SEPARATOR
SF	SUPPLY FAN
SHWP	SECONDARY HOT WATER PUMP
SMX	SMOKE EXHAUST
TK	TANK
TRP	TRANSFER PUMP
TX	TOILET EXHAUST
UH	UNIT HEATER
VFCU	VERTICAL FAN COIL UNIT
VV	VARIABLE VOLUME
VCV	VARIABLE/CONSTANT VOLUME BOX
VVE	VARIABLE VOLUME EXHAUST BOX

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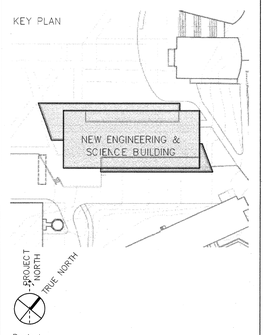
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

Drawing Title:

HVAC LEGEND

CONFORMED SET: 05/29/2015

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: N.T.S.

H0.00

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AIR HANDLING UNIT SCHEDULE

UNIT NUMBER	SERVICE	LOCATION	TOTAL CFM	MAX MIN. O.A. CFM	SUPPLY FAN DATA: QUANTITY	TOTAL FAN CFM	STATIC PRESS (IN. WG) EXTERNAL	STATIC PRESS (IN. WG) TOTAL	CLASS	TYPE	RPM	MAX BHP	MIN HP	MOTOR TYPE	TOTAL RETURN CFM	RETURN FAN DATA: QUANTITY	TOTAL FAN CFM	TOTAL STATIC PRESS (IN. WG)	CLASS	TYPE	RPM	MAX BHP	MIN HP	MOTOR TYPE	COOLING COIL (SIZED WITHOUT HEAT RECOVERY): TOTAL MBH	MAX. FACE VELOC. (FPM)	AIR DATA EAT (°F) DB	EAT (°F) WB	LAT (°F) DB	LAT (°F) WB	MAX. P.D. (IN. WG)	CHILLED WATER DATA FLOW GPM	EWT (°F)	LWT (°F)	MAX. PD (FT)	PRE-HEATING COIL (SIZED WITHOUT HEAT RECOVERY): TOTAL MBH	MAX. FACE VELOC. (FPM)	AIR DATA EAT (°F)	LAT (°F)	MAX. PD (IN. WG)	HOT WATER DATA FLOW GPM	HEATING MEDIUM	EWT (°F)	LWT (°F)	MAX. PD (FT)	HUMIDIFIER PSIG	LB/HR	FILTERS PRE-FILTER FACE VELOC. (FPM)	EFF (MERV)	PD CLEAN (IN. WG)	PD DIRTY (IN. WG)	FINAL FILTER FACE VELOC. (FPM)	EFF (MERV)	PD CLEAN (IN. WG)	PD DIRTY (IN. WG)	POWER	EMERG. POWER	VFD	SELECTION BASED ON	NOTES
AHU-1	1st Floor	PENTHOUSE	25,000	7,500	1	25,000	2.0	6.0	II	PLN	1150	-	40	TEFC	20,000	1	20,000	2.0	I	PLN	1150	-	15	TEFC	1071	498	80.6	65.9	52	51.6	0.73	178	45	57	11.5	796	498	48	77	0.07	54	WATER	180	150	9.2	NA	NA	500	8	0.3	0.6	500	13	0.6	1.2	480/3	NO	YES	HAAKON	
AHU-2-4	2nd, 3rd, 4th Floor	PENTHOUSE	25,000	25,000	1	25,000	3.5	7.0	III	PLN	1418	-	50	TEFC	NA	-	-	-	-	-	-	-	-	-	1802	446	94.1	73.3	52	51.2	0.73	300	45	57	14.8	1364	446	4	54	0.07	93	WATER	180	150	5.9	10	707	500	8	0.3	0.6	500	13	0.6	1.2	480/3	NO	YES	HAAKON	2
AHU-5	5th Floor	PENTHOUSE	35,000	35,000	2	17,500	3.0	6.0	III	PLN	1150	-	50	TEFC	NA	-	-	-	-	-	-	-	-	-	2472	469	94.1	73.3	52	51.3	0.8	411	45	57	12.1	1890	469	4	54	0.07	130	WATER	180	150	10.3	10	990	500	8	0.3	0.6	500	13	0.6	1.2	480/3	YES	YES	HAAKON	1

NOTES:
1. REFER TO HEAT RECOVERY COIL SCHEDULE BELOW
2. REFER TO ENTHALPY WHEEL SCHEDULE BELOW

AIR HANDLING UNIT HEAT RECOVERY COIL SCHEDULE

UNIT NUMBER	SERVICE	LOCATION	HEAT RECOVER COIL (PROP-GLYCOL) WINTER: TOTAL CFM	TOTAL MBH	EFF %	MAX. FACE VELOC. (FPM)	AIR DATA EAT (°F)	LAT (°F)	MAX. PD (IN. WG)	GLYCOL DATA FLOW GPM	HEATING MEDIUM	EWT (°F)	LWT (°F)	MAX. PD (FT)	HEAT RECOVER COIL (PROP-GLYCOL) SUMMER: TOTAL MBH	AIR DATA EAT (°F)	LAT (°F)	MAX. PD (IN. WG)	GLYCOL DATA FLOW GPM	HEATING MEDIUM	EWT (°F)	LWT (°F)	MAX. PD (FT)
AHU-5	5TH FLOOR	PENTHOUSE	35,000	1502	47	469	4	43.6	0.60	250	40% PG	51.5	38.5	12.0	437	90	78.9	0.60	250	40% PG	77.7	81.5	7.6
EAHU-1	5TH FLOOR	PENTHOUSE	50,000	1502	47	500	72	44.3	0.66	250	40% PG	38.5	51.5	16.3	437	72	80.1	0.66	250	40% PG	81.5	77.7	10.9

AIR HANDLING UNIT ENERGY RECOVERY ENTHALPY WHEEL SCHEDULE

UNIT NUMBER	SERVICE	LOCATION	SUMMER SUPPLY AIR: TOTAL CFM	MAX FACE VELOC (FPM)	EAT (°F) DB	EAT (°F) WB	LAT (°F) DB	LAT (°F) WB	MAX. P.D. (IN. WG)	SUMMER EXHAUST AIR: TOTAL CFM	MAX FACE VELOC. (FPM)	EAT (°F) DB	EAT (°F) WB	LAT (°F) DB	LAT (°F) WB	MAX. P.D. (IN. WG)	WINTER SUPPLY AIR: TOTAL CFM	MAX FACE VELOC. (FPM)	EAT (°F) DB	EAT (°F) WB	LAT (°F) DB	LAT (°F) WB	MAX. P.D. (IN. WG)	WINTER EXHAUST AIR: TOTAL CFM	MAX FACE VELOC. (FPM)	EAT (°F) DB	EAT (°F) WB	LAT (°F) DB	LAT (°F) WB	MAX. P.D. (IN. WG)
AHU-2-4	2nd, 3rd, 4th Floor	PENTHOUSE	25,000	908	94.1	73.3	80.9	66.3	0.71	23,500	721	74.0	62.0	87.9	70.1	0.64	25,000	908	4	1	47.7	41.1	0.71	23,500	721	70	55	23.9	21.7	0.64

PLATE & FRAME HEAT EXCHANGER SCHEDULE

UNIT NUMBER	LOCATION	SERVICE	CAPACITY MBH	MIN. NO. OF PLATES	SIDE A HOT SIDE: EWT °F	LWT °F	GPM	△PRESS FT. H_2O	FLUID	FOULING FACTOR	PRES. RATING	INLET/ OUTLET (INHES)	SIDE B COLD SIDE: EWT °F	LWT °F	GPM	△PRESS FT. H_2O	FLUID	FOULING FACTOR	ASME PRES. RATING	INLET/ OUTLET (INHES)	MATERIAL	MIN SURFACE AREA (SQ. FT.)	DEMENSIONS L X H X W (IN)	SIMILAR TO	NOTES SEE BELOW
HE-1	BASEMENT MEP RM	CH	8133	526	57	45	1,350	10.0	WATER	0.00025	150	6	43	55	1,350	10.0	WATER	0.00025	150	6	304 SS	6768	122x110x26	B&G GPX AP110	1
HE-2	BASEMENT MEP RM	CH	8133	526	57	45	1,350	10.0	WATER	0.00025	150	6	43	55	1,350	10.0	WATER	0.00025	150	6	304 SS	6768	122x110x26	B&G GPX AP110	1
HE-3	BASEMENT MEP RM	PCH	1204	102	57	47	240	10.0	WATER	0.00025	150	4	43	55	200	10.0	WATER	0.00025	150	4	304 SS	743	43x90x20	B&G GPX AP64	2

NOTES:
1. SIZED FOR 50% OF TOTAL SYSTEM CAPACITY
2. SIZED FOR 100% OF SYSTEM CAPACITY

HEAT EXCHANGER (STEAM-WATER) SCHEDULE

UNIT NUMBER	LOCATION	SERVICE	TUBE LENGTH FT-INCH	SHELL DIAMETER INCH	NO. OF PASSES	EWT °F	LWT °F	GPM	WATER SIDE (TUBE): △PRESS FT. H_2O	MIN. MBH	FOULING FACTOR	PRES. RATING	STEAM SIDE (SHELL): OPER. PRES.	FLOW RATE LBS/HR.	PRES. RATING	SIMILAR TO	REMARKS
HE-4	BASEMENT MEP RM	HEATING WATER	64	16	2	152	180	640	1.79	8764	0.0005	150	15	9270	150	B&G SU-16-5-2	1
HE-5	BASEMENT MEP RM	HEATING WATER	64	16	2	152	180	640	1.79	8764	0.0005	150	15	9270	150	B&G SU-16-5-2	1

NOTES:
1. SIZED FOR 75% OF TOTAL SYSTEM CAPACITY

STEAM PRESSURE REDUCING VALVE SCHEDULE

BASED ON SPENCE

UNIT NUMBER	LOCATION	SERVICE	INLET TEMP °F	INLET PSIG	OUTLET PSIG	CAPACITY (#/HR) REQ'D	CAPACITY (#/HR) RATED	SIZE/MODEL	END CONNECTION	SILENCER	REMARKS	NOTES
PRV-1	BASEMENT	CAMPUS STEAM	312	65	15	4,200	150	REFLEX 2-1/2"	4"	YES	ELECTRIC ACTUATOR	1
PRV-2	BASEMENT	CAMPUS STEAM	312	65	15	8,300	150	REFLEX 3"	6"	YES	ELECTRIC ACTUATOR	1
SRV-1	BASEMENT	CAMPUS STEAM	312	15	25	12,500	150	FIG. 41 6" x R x 8"	10"	–	DRIP PAN ELBOW	

NOTES:
1. MFG. SHALL PROVIDE DIGITAL CONTROLLER, PROGRAMMABLE FOR 1/3-2/3 OPERATION, PANEL MOUNT, 120 VAC, AND AUDIO VISUAL ALARM PANEL.

FLASH TANK SCHEDULE

UNIT NO.	LOCATION	SERVICE	INLET PSIG	OUTLET PSIG	INLET #/HR	TANK SIZE DIA.	L	AREA-SF	GALLONS	OUTLET #/HR LPS	LPR	SAFETY RELIEF VALVE	SAFETY VENT CONNECTION	PIPE SIZES IN. LPR	MPR	HPR	LPS	V	DRAIN	HAND HOLE	REMARKS
FT-1	BASEMENT	STEAM RECOVERY	65	15	10,000	24"	48"	8.1	20	400	5600	25 PSIG	2"	5"	3"	–	4"	2"	1"	4"X6"	CEMLINE MODEL H13FST -NOTE 1

1) PROVIDE FLASH TANK WITH INTERNAL SPRAY PIPE WITH 1/4" HOLES DRILLED AT 0, 90, 180, 270 DEGREES; MPR ENTER FLASH TANK THROUGH SPRAY PIPE. PROVIDE WITH INTERNAL ELBOW & DOWN PIPE.

CLEAN STEAM GENERATOR SCHEDULE (STEAM TO STEAM)

UNIT NUMBER	SERVICE	LOCATION	SOURCE SIDE (MPS): PSIG	#/HR	PRES. RATING	RELIEF VALVE SETTING	FOULING FACTOR	SHELL SIDE (CLEAN STEAM): PSIG	#/HR	EWT °F	PRES. RATING	RELIEF VALVE SETTING	FOULING FACTOR	SIMILAR TO	EMER. POWER	REMARKS
CSHX-1	AHU HUMIDIFIERS	BASEMENT MER RM	65	4146	150	112	0.0005	15	3,200	40	150	30	0.0005	CEMLINE – V240USG1636	NO	1-8

NOTES
1. UNFIRED STEAM GENERATOR SHALL BE FURNISHED AS A COMPLETE PACKAGE ON A SKID READY FOR INSTALLATION. VERTICAL ARRANGEMENT. SKID SHALL BE RAISED MIN. 3FT A.F.F. TO ALLOW FOR DRAINAGE.
2. UNFIRED STEAM GENERATOR SHALL BE ASME CODE CONSTRUCTED AND STAMPED IN ACCORDANCE WITH SECTION VII.I, DIVISION I FOR UNFIRED STEAM GENERATORS.
3. UNFIRED STEAM GENERATOR SHALL BE FURNISHED WITH AN ELECTRONIC OPERATED, 2-WAY CONTROL VALVE TO MODULATE THE INCOMING STEAM TO MAINTAIN THE DESIRED OUTPUT OF STEAM PRESSURE +2 PSI. CONTROL VALVE SHALL BE SUITABLE FOR 400°F AND 400 PSI.
4. FURNISH STEAM SEPARATOR.
5. PROVIDE SOLID-STATE CONTROL MODULE WITH LED BACKLIT LCD DISPLAY.
6. OPTIONS:
   A. VACUUM BREAKER.
   B. RELAY WITH 120V COIL TO REMOTELY START OR STOP THE GENERATOR.
   C. SS TUBES AND SHELL
   D. CONDENSATE BLOW OFF RECEIVER AND COOLER UNIT, WITH AUTOMATIC BLOWDOWN BASED ON TDS
   E. ELECTRIC HIGH WATER CUT OFF
7. PROVIDE WATER SOFTENER AT SKID SIMILAR TO RES-KEM. SIZE IN ACCORDANCE WITH CEMLINE RECOMMENDATIONS. REFER TO PLUMBING PLANS.
8. PROVIDE VENT PIPING FROM MANUFACTURER'S RELIEF VALVE TO OUTSIDE.

PRESSURE POWERED CONDENSATE PUMP SCHEDULE

UNIT NUMBER	LOCATION	STEAM (#/HR)	MOTIVE AIR (SCFM) [FUTURE]	MOTIVE STEAM (#/HR) [FUTURE]	BACK PRESS. (PSIG)	MINIMUM RECEIVER SIZE (GAL)	MIN. VENT CONNECT SIZE (IN.)	INLET (1) SIZE (IN.)	INLET (2) SIZE (IN.)	TEMP. (°F)	STEAM MOTIVE PRES. PSIG	AIR MOTIVE PRES. PSIG	NO. OF PUMPS	SIMILAR TO	NOTES SEE BELOW
CP-1	BASEMENT MECHANICAL B06	42,000	33 [44]	720 [960]	15	130	8	8	8	210	65	110	3	ARMSTRONG MODEL TPT312LBRPC-130	1,2

NOTES:
1. FURNISH EACH PUMP WITH DIGITAL CYCLE COUNTER, WATER LEVEL GAUGE, DIAL THERMOMETER, INLET STRAINER, DISCHARGE PRESSURE GAUGES, MECHANICAL ALTERNATOR, SUCTION BUTTERFLY VALVE AND INSULATION BLANKET FOR EACH PUMP AND RECEIVER.
2. CYCLE COUNTER SHALL BE WIRED TO BMS.
3. SKID AND MOTIVE LINES SHALL DESIGNED FOR FUTURE 4TH PUMP

ELECTRIC CONDENSATE PUMP SCHEDULE

UNIT NUMBER	LOCATION	SQ. FT. EDR	MIN. RECEIV. CAPACITY (GAL)	MIN. VENT CONNECT SIZE (IN.)	GPM	NPSH MAX. FT. H_2O	SUCTION TEMP.	DISCH. PRES. PSIG	NO. OF PUMPS	MOTOR DATA @ 60 HZ: MHP EA	RPM	VOLTS	PHASE	SIMILAR TO	NOTES SEE BELOW	EMER POWER
CP-2	BASEMENT MECH RM B06	27,500	50	3	50	–	215	10	2	5	1750	480	3	WEBB PUMP MODEL PUREPRO		YES
CP-3	BASEMENT MECH RM B06	14,000	25	3	25	–	215	15	2	5	1750	480	3	WEBB PUMP MODEL PUREPRO		YES

NOTES:
1. THE CAPACITY OF CP-2 IS BASED ON THE CONDENSATE FLOW OF ALL LPR CONDENSATE LINES LOCATED BELOW THE INLET LEVEL OF CP-1. THIS CAPACITY SHALL BE VERIFIED BY DIV. 23 BASED ON CONSTRUCTION COORDINATION SHOP DRAWINGS.

PUMPS

MARK	LOCATION	SERVICE	TYPE	GPM	TOTAL HEAD (FT. H_2O)	MAX NPSH	MOTOR DATA @ 60 HZ: BHP	MHP	RPM	VOLTS	PHASE	SIMILAR TO	NOTES SEE BELOW	VFD	EMER POWER
CWP-1	PENTHOUSE	CW	INLINE	240	65	–	–	7.5	1780	480	3	B&G 80 3x3x9-1/2B		YES	YES
CWP-2	PENTHOUSE	CW	INLINE	240	65	–	–	7.5	1780	480	3	B&G 80 3x3x9-1/2B	1	YES	YES
CHP-1	BASEMENT MEP RM	CH	END SUCTION	1,350	100	–	–	50	1780	480	3	B&G 1510 6G		YES	YES
CHP-2	BASEMENT MEP RM	CH	END SUCTION	1,350	100	–	–	50	1780	480	3	B&G 1510 6G		YES	YES
CHP-3	BASEMENT MEP RM	CH	END SUCTION	1,350	100	–	–	50	1780	480	3	B&G 1510 6G		YES	NO
CHP-4	BASEMENT MEP RM	PCH	INLINE	240	100	–	–	15	3525	480	3	B&G 80 3x3x7B		YES	NO
CHP-5	BASEMENT MEP RM	PCH	INLINE	240	100	–	–	15	3525	480	3	B&G 80 3x3x7B	1	YES	NO
HWP-1	BASEMENT MEP RM	HW	END SUCTION	350	100	–	–	20	1780	480	3	B&G 1510 3E		YES	YES
HWP-2	BASEMENT MEP RM	HW	END SUCTION	350	100	–	–	20	1780	480	3	B&G 1510 3E		YES	YES
HWP-3	BASEMENT MEP RM	HW	END SUCTION	350	100	–	–	20	1780	480	3	B&G 1510 3E	1	YES	YES
HWP-4	BASEMENT MEP RM	SHW (SOUTH)	INLINE	75	75	–	–	5	1780	480	3	B&G 80 1-1/2x1-1/2x9-1/2		NO	YES
HWP-5	BASEMENT MEP RM	SHW (STANDBY)	INLINE	75	75	–	–	5	1780	480	3	B&G 80 1-1/2x1-1/2x9-1/2	1	NO	YES
HWP-6	BASEMENT MEP RM	SHW (NORTH)	INLINE	75	75	–	–	5	1780	480	3	B&G 80 1-1/2x1-1/2x9-1/2		NO	YES
HWP-7	PENTHOUSE	HEAT RECOVERY	INLINE	300	60	–	–	7.5	1780	480	3	B&G 80 3x3x9-1/2B	2	NO	NO
HWP-8	PENTHOUSE	HEAT RECOVERY	INLINE	300	60	–	–	7.5	1780	480	3	B&G 80 3x3x9-1/2B	1,2	NO	NO
HWP-9,10,11	PENTHOUSE	AHU-2,3,4 FREEZE	INLINE	93	6	–	–	1/3	1725	115	1	B&G E-90 3AAB		NO	YES
HWP-12	PENTHOUSE	AHU-5 FREEZE	INLINE	130	10	–	–	3/4	1150	480	3	B&G 80 4x4x7		NO	YES

NOTES:
1. STANDBY 2. 40% GLYCOL

FAN COIL UNIT SCHEDULE

UNIT NUMBER	AREA SERVED	FAN: SPEED SETTING	CFM	RPM	EXT SP	MOTOR DATA @ 60 HZ: HP	MCA	RPM	VOLTS	PHASE	HOT WATER COIL @ 70°F EAT: FLUID	MBH	EWT °F	LWT °F	MIN ROWS	GPM	△PRESS FT. H_2O	CHILLED WATER COIL: EAT, °F DB/WB	SENS MBH	TOTAL MBH	FLUID	EWT °F	LWT °F	MIN ROWS	GPM	△PRESS FT. H_2O	SIMILAR TO DAIKIN	REMARKS	EMER POWER
FCU-1	SEE PLANS	VFD	1800	1567	0.5	2	–	–	208	3	NA	NA	NA	NA	NA	NA	NA	75/63	41	49	WATER	45	57	6	8	3.5	LAH004A	SEE NOTE 1,4	YES
FCU-2	V1A VESTIBULE A	MED	500	–	0.3	1/4	4.2	–	115	1	WATER	44	180	150	3	2.9	2.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	FHVC110	SEE NOTE 1,3	YES
FCU-3	V1B VESTIBULE B	MED	300	–	0.3	1/8	2.6	–	115	1	WATER	28	180	150	4	1.9	1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	FHVC106	SEE NOTE 1,3	YES
FCU-4	STAIRS A & B	MED	600	–	0	(2)1/4	4.8	–	115	1	WATER	28	180	150	1	1.8	10.7	75/63	13.3	16.7	WATER	45	57	4	2.8	4.5	FCVH108	SEE NOTE 1,2	YES
FCU-5	SEE PLANS	MED	800	–	0.3	1/2	11.2	–	208	3	NA	NA	NA	NA	NA	NA	NA	75/63	16.6	20.5	WATER	45	57	6	3.4	0.9	HHBB116	SEE NOTE 1,4	NO
FCU-6	SEE PLANS	MED	1200	–	0.3	3/4	13.8	–	208	3	NA	NA	NA	NA	NA	NA	NA	75/63	25.7	31.9	WATER	45	57	6	5.3	1.5	HHBB120	SEE NOTE 1,4	NO
FCU-7	SEE PLANS	MED	600	–	0.3	3/4	13.8	–	208	3	NA	NA	NA	NA	NA	NA	NA	75/63	13.2	16.9	WATER	45	57	6	2.8	1.6	HHBB112	SEE NOTE 1,4	NO
FCU-8	SEE PLANS	MED	550	–	0.3	1/3	6.0	–	115	1	WATER	43	180	150	2	2.9	1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	FHHH106	SEE NOTE 1,4	YES
FCU-9	PENTHOUSE	VFD	1800	1606	0.5	2	–	–	208	3	WATER	52	180	140	1	2.6	0.4	75/63	41	49	WATER	45	57	6	8	3.5	LAH004A	SEE NOTE 4,6	YES
FCU-10	MAIN ELEC RM B02 & MAIN EM. ELEC RM B03	VFD	9500	1393	0.75	15	–	–	480	3	NA	NA	NA	NA	NA	NA	NA	75/63	222	275	WATER	45	56	6	50	3.7	LAH020A	SEE NOTE 4,6	YES
FCU-11	SEE PLANS	VFD	1500	1596	0.75	1 1/2	–	–	208	3	NA	NA	NA	NA	NA	NA	NA	75/63	35	42	WATER	45	57	6	7	1.8	LAH004A	SEE NOTE 4,6	YES
FCU-12	SEE PLANS	VFD	2600	1456	0.3	5	–	–	208	3	NA	NA	NA	NA	NA	NA	NA	75/63	53.7	59.2	WATER	45	57	6	10	1.5	LAH005A	SEE NOTE 5,6	YES

NOTES:
1. PROVIDE DISCONNECT SWITCH, STARTER, ECM MOTOR (WHERE AVAILABLE), THERMOSTAT, VIBR. ISOLATION, THROWAWAY FILTER.
2. VERTICAL RECCESSED, INTEGRAL SUPPLY AND RETURN GRILLES.
3. VERTICAL CONCEALED, DUCTED SUPPLY AND RETURN GRILLES.
4. HORIZONTAL CONCEALED, DUCTED SUPPLY AND RETURN.
5. VERTICAL FLOOR MOUNTED, PROVIDE CUSTOM DISCHARGE PLENUM, FRONT RETURN & 4" CONCRETE HOUSEKEEPING PAD.
6. PROVIDE UNIT MOUNTED VFD AND FUSED DISCONNECT, DOUBLE WALL CONSTRUCTION, HINGED ACCESS DOORS, MERV 8 FILTERS, SS SLOPED DRAIN PAN, INTERNALLY VIBRATION ISOLATED FAN.

VARIABLE FREQUENCY DRIVE SCHEDULE

1/8/04 S260.DWG

NUMBER	LOCATION	DRIVEN EQUIPMENT	MHP	DRIVE TYPE	NUMBER OF PULSES INPUT	5% LINE REACTOR	BYPASS	LUGS OVERSIZED	ADDITIONAL DEVICES TO REDUCE HARMONICS (CURRENT AND VOLTAGE)	SIMILAR TO ABB	REMARKS
VFD-AHU-1-SF	PENTHOSUE	AHU-1 SF	40	PWM	SEE SPEC	YES	YES	YES	AS REQUIRED TO MEET THE SPECIFIED	ACH550	PASSIVE FILTERS ARE NOT PERMITED
VFD-AHU-1-RF	PENTHOUSE	AHU-1 RF	15	PWM		YES	YES	YES		ACH550	PASSIVE FILTERS ARE NOT PERMITED
VFD-AHU-2	PENTHOUSE	AHU-2 SF	50	PWM		YES	YES	YES		ACH550	PASSIVE FILTERS ARE NOT PERMITED
VFD-AHU-3	PENTHOUSE	AHU-3 SF	50	PWM		YES	YES	YES		ACH550	PASSIVE FILTERS ARE NOT PERMITED
VFD-AHU-4	PENTHOUSE	AHU-4 SF	50	PWM		YES	YES	YES		ACH550	PASSIVE FILTERS ARE NOT PERMITED
VFD-AHU-5-SF1	PENTHOUSE	AHU-5 SF1	50	PWM		YES	YES	YES		ACH550	PASSIVE FILTERS ARE NOT PERMITED
VFD-AHU-5-SF2	PENTHOUSE	AHU-5 SF2	50	PWM		YES	YES	YES		ACH550	PASSIVE FILTERS ARE NOT PERMITED
VFD-EF-1	PENTHOUSE	EF-1	30	PWM		YES	NO	YES		ACH550	PASSIVE FILTERS ARE NOT PERMITED
VFD-EF-2	PENTHOUSE	EF-2	30	PWM		YES	NO	YES		ACH550	PASSIVE FILTERS ARE NOT PERMITED
VFD-EF-3	PENTHOUSE	EF-3	30	PWM		YES	NO	YES		ACH550	PASSIVE FILTERS ARE NOT PERMITED
VFD-EF-4	PENTHOUSE	EF-4	30	PWM		YES	NO	YES		ACH550	PASSIVE FILTERS ARE NOT PERMITED
VFD-EF-5	PENTHOUSE	EF-5	40	PWM		YES	NO	YES		ACH550	PASSIVE FILTERS ARE NOT PERMITED
VFD-EF-6	PENTHOUSE	EF-6	40	PWM		YES	NO	YES		ACH550	PASSIVE FILTERS ARE NOT PERMITED
VFD-EF-7	PENTHOUSE	EF-7	40	PWM		YES	NO	YES		ACH550	PASSIVE FILTERS ARE NOT PERMITED
VFD-EF-8	PENTHOUSE	EF-8	40	PWM		YES	NO	YES		ACH550	PASSIVE FILTERS ARE NOT PERMITED
VFD-EF-9	BASEMENT	EF-9	3	PWM		YES	YES	YES		ACH550	PASSIVE FILTERS ARE NOT PERMITED
VFD-CWP-1	PENTHOUSE	CWP-1	7.5	PWM		YES	NO	YES		ACH550	PASSIVE FILTERS ARE NOT PERMITED
VFD-CWP-2	PENTHOUSE	CWP-2	7.5	PWM		YES	NO	YES		ACH550	PASSIVE FILTERS ARE NOT PERMITED
VFD-CHP-1	BASEMENT	CHP-1	50	PWM		YES	NO	YES		ACH550	PASSIVE FILTERS ARE NOT PERMITED
VFD-CHP-2	BASEMENT	CHP-2	50	PWM		YES	NO	YES		ACH550	PASSIVE FILTERS ARE NOT PERMITED
VFD-CHP-3	BASEMENT	CHP-3	50	PWM		YES	NO	YES		ACH550	PASSIVE FILTERS ARE NOT PERMITED
VFD-CHP-4	BASEMENT	CHP-4	15	PWM		YES	NO	YES		ACH550	PASSIVE FILTERS ARE NOT PERMITED
VFD-CHP-5	BASEMENT	CHP-5	15	PWM		YES	NO	YES		ACH550	PASSIVE FILTERS ARE NOT PERMITED
VFD-HWP-1	BASEMENT	HWP-1	20	PWM		YES	NO	YES		ACH550	PASSIVE FILTERS ARE NOT PERMITED
VFD-HWP-2	BASEMENT	HWP-2	20	PWM		YES	NO	YES		ACH550	PASSIVE FILTERS ARE NOT PERMITED
VFD-HWP-3	BASEMENT	HWP-3	20	PWM		YES	NO	YES		ACH550	PASSIVE FILTERS ARE NOT PERMITED
VFD-CT-1	PENTHOSUE	CT-1	15	PWM		YES	YES	YES		ACH550	PASSIVE FILTERS ARE NOT PERMITED

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ISSUE/REVISION:

NO.	DATE	COMMENTS

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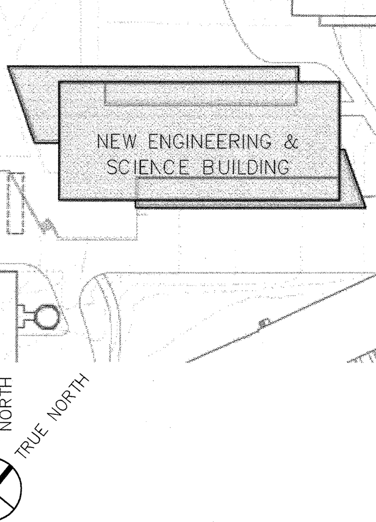
ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK

KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

Drawing Title:

HVAC SCHEDULES

CONFORMED SET: 05/29/2015

PROJECT NO: 092203 | DATE: 20 FEBRUARY 2015

PHASE: BID DOCUMENTS | SCALE: N.T.S.

H0.01

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SUPPLY AIR VALVE SCHEDULE

UNIT NUMBER	LOCATION	CFM MAX	CFM MIN	SIZE	MAX N.C.	ΔP IN.	REHEAT COIL	SOUND ATTENUATOR	SELECTION BASED ON PHOENIX CONTROLS	NOTES
SV-1	SEE PLANS	550	50	10"Ø	40	0.3	RHC-1	SA-SV-1	MAVA110L	1
SV-2	SEE PLANS	1050	100	12"Ø	40	0.3	RHC-2	SA-SV-2	MAVA112L	1
SV-3	SEE PLANS	2100	200	(2) 12"Ø	40	0.3	RHC-3	SA-SV-3	MAVA212L	1

NOTES:
1. PROVIDE REHEAT COIL AND SOUND ATTENUATOR, REFER TO ASSOCIATED SCHEDULES FOR MORE INFO.

EXHAUST AIR VALVE SCHEDULE

UNIT NUMBER	LOCATION	CFM MAX	CFM MIN	SIZE	MAX N.C.	ΔP IN.	SOUND ATTENUATOR	SELECTION BASED ON PHOENIX CONTROLS	NOTES
EV-1	SEE PLANS	550	50	10"Ø	40	0.3	SA-EV-1	EXVA110L	1
EV-2	SEE PLANS	1050	100	12"Ø	40	0.3	SA-EV-2	EXVA112L	1
EV-3	SEE PLANS	2100	200	(2) 12"Ø	40	0.3	SA-EV-3	EXVA212L	1

NOTES:
1. PROVIDE SOUND ATTENUATOR, REFER TO ASSOCIATED SCHEDULE FOR MORE INFO.

HOOD EXHAUST AIR VALVE SCHEDULE

UNIT NUMBER	LOCATION	CFM MAX	CFM MIN	SIZE	MAX N.C.	ΔP IN.	SOUND ATTENUATOR	SELECTION BASED ON PHOENIX CONTROLS	NOTES
HV-1	SEE PLANS	550	50	10"Ø	40	0.3	SA-HV-1	EXVB110L	
HV-2	SEE PLANS	1050	100	12"Ø	40	0.3	SA-HV-2	EXVB112L	
HV-3	SEE PLANS	1400	200	14"Ø	40	0.3	SA-HV-3	EXVB114L	

NOTES:
1. PROVIDE SOUND ATTENUATOR, REFER TO ASSOCIATED SCHEDULE FOR MORE INFO.

TERMINAL HOT WATER COIL SCHEDULE

UNIT NUMBER	LOCATION	MINIMUM MBH	NO. OF ROWS	MAX FPI	AIR SIDE CFM	EAT °F	LAT °F	MAX FACE VEL.	MAX ΔPRESS IN. H_2O	WATER SIDE FLUID	EWT °F	LWT °F	GPM	MAX ΔPRESS ft. H_2O	COIL SIZE	OUTLET DUCT SIZE	SELECTION BASED ON HEAT CRAFT	NOTES
RHC-1	SEE PLANS	14.8	2	8	550	55	NOTE 2	400	0.15	WATER	180	150	NOTE 3	1	18X12	18X12		1
RHC-2	SEE PLANS	28.3	2	8	1050	55	NOTE 2	450	0.2	WATER	180	150	NOTE 3	1	24x15	24x15		1
RHC-3	SEE PLANS	56.7	2	8	2100	55	NOTE 2	480	0.25	WATER	180	150	NOTE 3	1	36x18	30x18		1
RHC-4	PENTHOUSE SF-3	380	2	9	4500	4	82	515	0.16	WATER	180	150	26	4.3	42x30	42x30		1

NOTES:
1. USE SCHEDULED DUCT SIZES UNLESS SHOWN OTHERWISE ON PLANS.
2. 70°F FOR VALVES SERVING INTERIOR ZONES, 80°F FOR VALVES SERVING EXTERIOR ZONES
3. FOR RH COIL GPM REFER LAB AIR VALVE SCHEDULES LOCATED ON HVAC PIPING DRAWINGS, SERIES H-2XX.

8/7/07 S112.DWG

CLOSED CIRCUIT EVAPORATIVE COOLER SCHEDULE

UNIT NUMBER	NOM. TONS	EWT °F	LWT °F	EAT WB °F	FLUID DATA Fluid	Flow GPM	EWT °F	LWT °F	Max. Δ P Feet H_2O	Fouling Factor	FAN(S) Quantity	Min. MHP	CFM	E.S.P. (W.G.)	RPM	SPEEDS	PUMP Flow GPM	Water Press. Drop (Ft)	Min. MHP	BASIN HEATER KW	VOLTAGE	PHASE	ELECTRICAL VOLTAGE	PHASE	HZ	FULL LOAD AMPS	SIMILAR TO	REMARKS	EMER POWER
CT-1	100	95	85	76	40% PG	240	95	85	13.2	-	1	15	28,400	0.5	385	VFD	150	-	2	6	480	3	480	3	60	36.9	MARLEY RECOLD JW-50C	1,2	YES

NOTES:
1. PROVIDE 4" CONCRETE EQUIPMENT PAD, VIBRATION ISOLATION BASE AND FLEXIBLE CONNECTORS FOR ALL PIPING AND DUCTWORK, INLET AND DISCHARGE AUTO ISOLATION DAMPERS.
2. REFER TO SPEC SECTION 236500 FOR NOISE CRITERIA AND FURTHER INFORMATION.

5/96 S121.DWG

RADIANT PANEL (HEATING)

TYPE	MIN BTUH PER FT.	AVERG. T °F	Δ T	PANEL WIDTH	LENGTH	PASSES	PIPING CONNECTIONS SUPPLY SIZE	RETURN SIZE	MAX. PRESSURE DROP FT OF H20	LOCATIOINS	SELECTION BASED ON	NOTES
RP-A	390	170	20	24	SEE PLANS	4	1/2"	1/2"	10	SAME ENDS	AIRTEX HEF-2	1
RP-B	300	170	20	18	SEE PLANS	4	1/2"	1/2"	10	SAME ENDS	AIRTEX HEF-2	1

NOTES:
1. PANELS AND PANEL MOUNTING BRACKETS LOCATED IN LEVEL 1 GATHERING / DISPLAY SPACE RM #121 SHALL BE PAINTED A CUSTOM COLOR BY PANEL MFG. CUSTOM COLOR SHALL BE SELECTED AND APPROVED BY ARCHITECTS.

6/95 S116.DWG

AIR ELIMINATOR SCHEDULE

UNIT NUMBER	LOCATION	SYSTEM	FLOW (GPM)	SIZE (IN)	ΔPRESS FT. H_2O	STRAINER	SIMILAR TO	REMARKS
AS-1	WET MECH RM	HOT WATER	850	8	0.9	NO	B&G ROLAIRTROL RL8	

SOUND ATTENUATORS

NUMBER	MAX AIRFLOW AIRFLOW (CFM)	MAX FACE VELOCITY (FPM)	LENGTH (FT)	MAX PRESSURE DROP (IN WG)	MINIMUM DYNAMIC INSERTION LOSS 1 63	2 125	3 250	4 500	5 1000	6 2000	7 4000	8 8000	LINING STANDARD	HOSPITAL GRADE	PACKLESS	GALVANIZED	SIMILAR TO VIBRO-ACOUSTICS	MAXIMUM SELF NOISE 1 63	2 125	3 250	4 500	5 1000	6 2000	7 4000	8 8000	DIMENSION W (IN) X H (IN)	REMARKS
SA-SV-1	550	+400	3	0.1	7	9	12	12	17	23	18	11	NO	YES	NO	YES	RFL-LV-F1	61	40	37	36	32	23	23	31	18" X 12"	
SA-SV-2	1050	+450	3	0.1	7	9	12	12	17	23	18	11	NO	YES	NO	YES	RFL-LV-F1	61	40	37	36	32	23	23	31	24" X 15"	
SA-SV-3	2100	+500	3	0.1	7	9	12	12	17	23	18	11	NO	YES	NO	YES	RFL-LV-F1	61	40	37	36	32	23	23	31	36" X 18"	
SA-EV-1	550	-400	3	0.1	6	7	21	16	14	12	12	11	NO	NO	YES	YES	RNM-LV-F1	51	43	43	46	51	51	40	31	18" X 12"	
SA-EV-2	1050	-450	3	0.1	6	7	21	16	14	12	12	11	NO	NO	YES	YES	RNM-LV-F1	51	43	43	46	51	51	40	31	24" X 15"	
SA-EV-3	2100	-500	3	0.1	6	7	21	16	14	12	12	11	NO	NO	YES	YES	RNM-LV-F1	51	43	43	46	51	51	40	31	36" X 18"	
SA-HV-1	550	-1008	3-1/2	0.09	14	17	31	15	14	13	10	9	NO	NO	YES	NO	CENM-MV-F1	49	41	36	34	33	25	19	26	10"ø	SS
SA-HV-2	1050	-1337	3-1/2	0.11	12	14	24	12	12	10	8	8	NO	NO	YES	NO	CENM-HV-F1	52	45	42	39	38	32	29	31	12"ø	SS
SA-HV-3	1400	-1310	3	0.08	10	13	19	11	11	9	6	6	NO	NO	YES	NO	CENM-HV-F1	52	46	43	41	41	34	32	34	14"ø	SS
SA-AHU1-SA1	15,000	-1753	5	0.1	3	2	4	15	20	23	12	6	NO	YES	NO	YES	RFL-UHV-F5	60	51	43	45	44	43	30	29	44" X 28"	
SA-AHU1-SA2	11,250	-1607	5	0.09	2	2	4	16	22	28	16	6	NO	YES	NO	YES	RFL-UHV-F7	59	48	40	44	42	37	27	26	36" X 28"	
SA-AHU1-RA1	12,500	-1786	5	0.11	4	3	7	17	25	29	17	7	NO	YES	NO	YES	RFL-UHV-F7	55	49	49	49	48	47	36	37	36" X 28"	
SA-AHU1-RA2	12,500	-1786	5	0.11	4	3	7	17	25	29	17	7	NO	YES	NO	YES	RFL-UHV-F7	55	49	49	49	48	47	36	37	36" X 28"	
SA-AHU2-SA	37,500	+1607	5	0.08	2	3	5	13	16	19	12	7	NO	YES	NO	YES	RFL-UHV-F2	64	54	46	47	46	47	31	33	84" X 40"	
SA-AHU2-EA	37,500	-1607	5	0.08	5	3	6	16	21	20	12	6	NO	YES	NO	YES	RFL-UHV-F4	60	54	54	53	53	51	33	40	70" X 48"	
SA-AHU4-SA	37,500	+1607	5	0.08	3	3	4	15	18	21	11	5	NO	YES	NO	YES	RFL-UHV-F4	63	53	46	47	46	46	31	32	70" X 48"	
SA-AHU4-EA	37,500	-1607	5	0.08	5	3	6	16	21	20	12	6	NO	YES	NO	YES	RFL-UHV-F4	60	54	54	53	53	51	33	40	70" X 48"	
SA-AHU5-SA1	4,050	+1657	5	0.09	3	2	4	15	20	23	12	6	NO	YES	NO	YES	RFL-UHV-F3	54	44	36	39	37	36	22	23	22" X 16"	
SA-AHU5-SA2	8,150	+1716	5	0.09	2	2	4	16	21	25	14	6	NO	YES	NO	YES	RFL-UHV-F6	58	48	40	43	41	38	27	26	38" X 18"	
SA-AHU5-SA3	12,325	+1541	5	0.07	3	3	4	15	18	21	11	5	NO	YES	NO	YES	RFL-UHV-F6	58	48	40	42	41	40	25	27	48" X 24"	

11/18/08 S018.DWG

AIR TERMINAL BOX ASSEMBLY SCHEDULE

UNIT NUMBER	TYPE	ASSEMBLY DESIGN RANGE CFM MIN.-MAX.	MAX. AIR PD IN. WG	TURNDOWN MIN. CFM	AIR VALVE MAX. APD IN. WG	HOT WATER COIL AIR SIDE MAX. HEATING CFM (*)	EAT °F	LAT °F (MIN) (**)	MAX FV FPM	MAX AIR PD IN. WG	MIN NO.OF ROWS	MAX FPI	MIN FIN THICK. IN.	WATER GPM	MIN. TUBE O.D. IN.	EWT °F	LWT °F	MAX ΔP FT. H_2O	SOUND CONTROL SECTION INLET STATIC PRESS (IN.)	NOISE CRITERIA (AT LISTED INLET SP) MAX. RAW POWER LEVEL db (LEAVING ASSEMBLY) DISCHARGE SPL @ 1.5" WG 125hz	250hz	500hz	1Khz	2Khz	4Khz	MAX. APD IN. WG	LINING HOSPITAL GRADE	MAX. ASSEMBLY DEPTH (IN)	SYSTEM SIDE CONNECT SIZE (IN)	DUCT SIZE (IN)	ROOM SIDE CONNECT SIZE (IN)	DUCT SIZE (IN)	ACCESORIES ACCESS DOOR BEFORE COIL	ACCESS DOOR AFTER COIL	NOTES	REMARKS (ACCEPTABLE MANUFACTURERS SUBJECT TO CONFORMANCE WITH SPECIFICATIONS)
VCV-5	VARIABLE VOLUME	120-250	0.30	60	0.03	125	55	NOTE 1	360	0.10	1	8	0.0095	NOTE 2	1/2	180	150	10	1.5	67	63	58	56	54	53	0.17	YES	12	5Ø	6Ø	12x10	12x6	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
VCV-6	VARIABLE VOLUME	150-400	0.30	70	0.03	200	55	NOTE 1	560	0.10	1	8	0.0095	NOTE 2	1/2	180	150	10	1.5	67	63	58	56	54	53	0.17	YES	12	6Ø	8Ø	12x10	12x8	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
VCV-8	VARIABLE VOLUME	300-650	0.30	140	0.03	325	55	NOTE 1	560	0.10	1	8	0.0095	NOTE 2	1/2	180	150	10	1.5	67	63	58	56	54	53	0.17	YES	15	8Ø	12Ø	14x15	14x12	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
VCV-10	VARIABLE VOLUME	500-925	0.30	225	0.03	463	55	NOTE 1	560	0.10	1	8	0.0095	NOTE 2	1/2	180	150	10	1.5	67	63	58	56	54	53	0.17	YES	15	10Ø	14Ø	16x15	16x12	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
VCV-12	VARIABLE VOLUME	800-1400	0.30	310	0.03	700	55	NOTE 1	560	0.10	1	8	0.0095	NOTE 2	1/2	180	150	10	1.5	67	63	58	56	54	53	0.17	YES	18	12Ø	16Ø	20x18	20x12	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
VCV-14	VARIABLE VOLUME	1000-1650	0.30	440	0.03	825	55	NOTE 1	560	0.10	1	8	0.0095	NOTE 2	1/2	180	150	10	1.5	67	63	58	56	54	53	0.17	YES	18	14Ø	16Ø	24x18	24x12	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
VCV-16	VARIABLE VOLUME	1200-2300	0.30	575	0.03	1150	55	NOTE 1	560	0.10	1	8	0.0095	NOTE 2	5/8	180	150	10	1.5	67	63	58	56	54	53	0.17	YES	18	16Ø	18x16	34x18	30x12	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
VCV-24	VARIABLE VOLUME	2000-3200	0.30	1000	0.03	1600	55	NOTE 1	560	0.10	1	8	0.0095	NOTE 2	5/8	180	150	10	1.5	67	63	58	56	54	53	0.17	YES	18	28x16	28x16	46x18	40x12	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
CV-5	CONSTANT VOLUME	65-250	0.30	60	0.03	250	55	NOTE 1	360	0.10	1	8	0.0095	NOTE 2	5/8	180	150	10	1.5	67	63	58	56	54	53	0.17	YES	12	5Ø	6Ø	12x10	12x6	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
CV-6	CONSTANT VOLUME	75-400	0.30	70	0.03	400	55	NOTE 1	560	0.10	1	10	0.0095	NOTE 2	5/8	180	150	10	1.5	67	63	58	56	54	53	0.17	YES	12	6Ø	8Ø	12x10	12x8	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
CV-8	CONSTANT VOLUME	150-650	0.30	140	0.03	650	55	NOTE 1	560	0.10	1	10	0.0095	NOTE 2	5/8	180	150	10	1.5	67	63	58	56	54	53	0.17	YES	15	8Ø	12Ø	14x15	14x12	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
CV-10	CONSTANT VOLUME	250-925	0.30	225	0.03	925	55	NOTE 1	560	0.10	1	10	0.0095	NOTE 2	5/8	180	150	10	1.5	67	63	58	56	54	53	0.17	YES	15	10Ø	14Ø	16x15	16x12	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
CV-12	CONSTANT VOLUME	350-1400	0.30	310	0.03	1400	55	NOTE 1	560	0.10	1	10	0.0095	NOTE 2	5/8	180	150	10	1.5	67	63	58	56	54	53	0.17	YES	18	12Ø	16Ø	20x18	20x12	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
CV-14	CONSTANT VOLUME	475-1650	0.30	440	0.03	1650	55	NOTE 1	560	0.10	1	10	0.0095	NOTE 2	5/8	180	150	10	1.5	67	63	58	56	54	53	0.17	YES	18	14Ø	16Ø	24x18	24x12	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
CV-16	CONSTANT VOLUME	600-2300	0.30	575	0.03	2300	55	NOTE 1	560	0.10	1	10	0.0095	NOTE 2	5/8	180	150	10	1.5	67	63	58	56	54	53	0.17	YES	18	16Ø	18x16	34x18	30x12	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
CV-24	CONSTANT VOLUME	1000-3200	0.30	1000	0.03	3200	55	NOTE 1	560	0.10	1	10	0.0095	NOTE 2	5/8	180	150	15	1.5	67	63	58	56	54	53	0.17	YES	18	28x16	28x16	46x18	40x12	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
VV-5	VARIABLE VOLUME	120-250	0.20	60	0.03	---	---	---	---	---	---	--	---	--	--	--	--	--	1.5	67	63	58	56	54	53	0.17	YES	12	5Ø	6Ø	12x10	12x6	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
VV-6	VARIABLE VOLUME	150-400	0.20	70	0.03	---	---	---	---	---	---	--	---	--	--	--	--	--	1.5	67	63	58	56	54	53	0.17	YES	12	6Ø	8Ø	12x10	12x8	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
VV-8	VARIABLE VOLUME	300-650	0.20	140	0.03	---	---	---	---	---	---	--	---	--	--	--	--	--	1.5	67	63	58	56	54	53	0.17	YES	15	8Ø	12Ø	14x15	14x12	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
VV-10	VARIABLE VOLUME	500-925	0.20	225	0.03	---	---	---	---	---	---	--	---	--	--	--	--	--	1.5	67	63	58	56	54	53	0.17	YES	15	10Ø	14Ø	16x15	16x12	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
VV-12	VARIABLE VOLUME	800-1400	0.20	310	0.03	---	---	---	---	---	---	--	---	--	--	--	--	--	1.5	67	63	58	56	54	53	0.17	YES	18	12Ø	16Ø	20x18	20x12	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
VV-14	VARIABLE VOLUME	1000-1650	0.20	440	0.03	---	---	---	---	---	---	--	---	--	--	--	--	--	1.5	67	63	58	56	54	53	0.17	YES	18	14Ø	16Ø	24x18	24x12	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
VV-16	VARIABLE VOLUME	1200-2300	0.20	575	0.03	---	---	---	---	---	---	--	---	--	--	--	--	--	1.5	67	63	58	56	54	53	0.17	YES	18	16Ø	18x16	34x18	30x12	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
VV-24	VARIABLE VOLUME	2000-3200	0.20	1000	0.03	---	---	---	---	---	---	--	---	--	--	--	--	--	1.5	67	63	58	56	54	53	0.17	YES	18	28x16	28x16	46x18	40x12	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
VVE-5	VARIABLE VOLUME EXHAUST	120-250	0.20	60	0.03	---	---	---	---	---	---	--	---	--	--	--	--	--	1.5	67	63	58	56	54	53	0.17	YES	12	5Ø	6Ø	12x10	12x6	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
VVE-6	VARIABLE VOLUME EXHAUST	150-400	0.20	70	0.03	---	---	---	---	---	---	--	---	--	--	--	--	--	1.5	67	63	58	56	54	53	0.17	YES	12	6Ø	8Ø	12x10	12x8	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
VVE-8	VARIABLE VOLUME EXHAUST	300-650	0.20	140	0.03	---	---	---	---	---	---	--	---	--	--	--	--	--	1.5	67	63	58	56	54	53	0.17	YES	15	8Ø	12Ø	14x15	14x12	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
VVE-10	VARIABLE VOLUME EXHAUST	500-925	0.20	225	0.03	---	---	---	---	---	---	--	---	--	--	--	--	--	1.5	67	63	58	56	54	53	0.17	YES	15	10Ø	14Ø	16x15	16x12	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
VVE-12	VARIABLE VOLUME EXHAUST	800-1400	0.20	310	0.03	---	---	---	---	---	---	--	---	--	--	--	--	--	1.5	67	63	58	56	54	53	0.17	YES	18	12Ø	16Ø	20x18	20x12	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
VVE-14	VARIABLE VOLUME EXHAUST	1000-1650	0.20	440	0.03	---	---	---	---	---	---	--	---	--	--	--	--	--	1.5	67	63	58	56	54	53	0.17	YES	18	14Ø	16Ø	24x18	24x12	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
VVE-16	VARIABLE VOLUME EXHAUST	1200-2300	0.20	575	0.03	---	---	---	---	---	---	--	---	--	--	--	--	--	1.5	67	63	58	56	54	53	0.17	YES	18	16Ø	18x16	34x18	30x12	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR
VVE-24	VARIABLE VOLUME EXHAUST	2000-3200	0.20	1000	0.03	---	---	---	---	---	---	--	---	--	--	--	--	--	1.5	67	63	58	56	54	53	0.17	YES	18	28x16	28x16	46x18	40x12	YES	YES	1, 2, 3, 4	ENVIRO-TEC, PRICE, NAILOR

(*) MAXIMUM PRESSURE DROP AT MAXIMUM DESIGN CFM.
(**) MINIMUM TEMPERATURE AT MAXIMUM HEATING CFM

NOTES:

1. 70°F FOR BOXES SERVING INTERIOR ZONES, 80°F FOR BOXES SERVING EXTERIOR ZONES
2. FOR RH COIL GPM REFER VAV BOX SCHEDULES LOCATED ON HVAC PIPING DRAWINGS, SERIES H-2XX.
3. THE DISCHARGE SOUND LEVEL SHALL BE LESS THAN SCHEDULED IN EACH FREQUENCY WHEN THE ASSEMBLY IS TESTED AND CERTIFIED IN A CERTIFIED NOISE LABORATORY. THE TEST SHALL BE WITH 1.5" WC AT THE INLET OF THE BOX AND AT THE MAXIMUM SCHEDULED AIR FLOW. IN ADDITION THE ASSEMBLY PRESSURE DROP SHALL BE LESS THAN SCHEDULED. THE ORDER OF COMPONENTS SHALL BE VALVE, COIL, SILENCER OR VALVE, SILENCER, COIL, BUT SHALL BE TESTED AS SUPPLIED.
4. THIS TEST SHALL OCCUR IF ALL COMPONENTS ARE BY THE SAME MANUFACTURER OR IF THE COMPONENTS ARE BY DIFFERENT MANUFACTURER.
5. CERTIFIED TEST DATA SHALL BE PROVIDED FOR EACH BOX ASSEMBLY AND FOR EACH BOX TYPE INCLUDING EXHAUST RETURN ASSEMBLIES. 6. EACH HEATING COIL SHALL BE PROVIDED WITH AN ACCESS DOOR ON EACH SIDE, UP STREAM AND DOWN STREAM.

AIR DISTRIBUTION DEVICE DUCT RUNOUT SIZE SCHEDULE

SUPPLY UNIT NUMBER	MAX CFM	NECK SIZE ON PLAN	DUCT RUNOUT SIZE (MIN.)	EXHAUST/RETURN UNIT NUMBER	MAX CFM	NECK SIZE ON PLAN	DUCT RUNOUT SIZE (MIN.)	NOTES
A, B, C, D, E	100	6x6	10x6	F	100	6x6	10x6	
A, B, C, D, E	250	9x9	14x6	F	200	8x8	12x6	
A, B, C, D, E	450	12x12	16x6 / 14x8	F	300	10x10	14x8	
A, B, C, D, E	650	15x15	24x6 / 18x8	F	450	12x12	16x6 / 14x8	
A, B, C, D, E	900	18x18	24x8 / 20x10	F	600	14x14	24x6 / 18x8	
A, B, C, D, E	1200	18x24	30x8 / 24x10	F	700	16x16	18x8 / 24X6	
				F	1000	18x18	24x8 / 20x10	
				F	1250	20x20	28x8 / 22x10	
				F	1500	22X22	30x8 / 24x10	

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EXPANSION/COMPRESSION TANK SCHEDULE

UNIT NUMBER	LOCATION	SYSTEM SERVED	INITIAL CHARGE (PSIG)	TANK CAPACITY (GALLONS)	STYLE	TANK LENGTH (IN.) X DIA. (IN.)	TANK FITTING	RELIEF VALVE SETTING	REDUCING VALVE SETTING	REMARKS	SIMILAR TO	NOTES
ET-1	MECH RM B06	HW & SHW	53	264	VERT	73 X 36	1-1/2"	100 PSIG	53 PSIG	BLADDER STYLE	B&G MODEL B-1000	1
ET-2	MEP RM B04	CH	53	106	VERT	51 X 24	1"	100 PSIG	53 PSIG	BLADDER STYLE	B&G MODEL B-400	1
ET-3	MEP RM B04	PCH	44	53	VERT	36 X 24	1"	100 PSIG	44 PSIG	BLADDER STYLE	B&G MODEL B-200	1
ET-4	MECH PH PH01	CW	14	53	VERT	36 X 24	1"	110 PSIG	14 PSIG	BLADDER STYLE	B&G MODEL B-200	1

NOTES: 1. PROVIDE 4" CONCRETE PAD

LAB AIR OUTLETS AND INLETS

DESIGNATION	SERVICE	MATERIAL	DUCTED CFM RANGE	FACE SIZE (INCHES)	DUCTED NECK SIZE (INCHES)	MODEL NO.	MANUFACTURER	REMARKS
"A"-1 WAY	SUPPLY	STEEL	25-100	24X24	6x6	OMNI/OMNI-AA	TITUS	1, 2
"B"-2 WAY 90°	SUPPLY	STEEL	101-250	24X24	9x9	OMNI/OMNI-AA	TITUS	1, 2
"C"-2 WAY 180°	SUPPLY	STEEL	251-450	24X24	12x12	OMNI/OMNI-AA	TITUS	1, 2
"D"-3 WAY	SUPPLY	STEEL	451-700	24X24	15x15	OMNI/OMNI-AA	TITUS	1, 2
"E"-4 WAY	SUPPLY	STEEL	701-1000	24X24	18x18	OMNI/OMNI-AA	TITUS	1, 2
F	RETURN/EXHAUST	STEEL	25-200	24X24	8x8	350RL/350FL/3/26	TITUS	1, 2
F	RETURN/EXHAUST	STEEL	201-300	24X24	10x10	350RL/350FL/3/26	TITUS	1, 2
F	RETURN/EXHAUST	STEEL	301-450	24X24	12x12	350RL/350FL/3/26	TITUS	1, 2
F	RETURN/EXHAUST	STEEL	451-600	24X24	14x14	350RL/350FL/3/26	TITUS	1, 2
F	RETURN/EXHAUST	STEEL	601-800	24X24	16x16	350RL/350FL/3/26	TITUS	1, 2
F	RETURN/EXHAUST	STEEL	801-1000	24X24	18x18	350RL/350FL/3/26	TITUS	1, 2
F	RETURN/EXHAUST	STEEL	1001-1250	24X24	20x20	350RL/350FL/3/26	TITUS	1, 2
F	RETURN/EXHAUST	STEEL	1251-1500	24X24	22x22	350RL/350FL/3/26	TITUS	1, 2
G	SIDEWALL SUPPLY	STEEL	SEE PLANS	SEE PLANS	SEE PLANS	520D	PRICE	1, 2
H	RETURN/EXHAUST	STEEL	SEE PLANS	SEE PLANS	SEE PLANS	530D	PRICE	1, 2
J	LINEAR SLOT SUPPLY	ALUM	SEE PLANS	SEE PLANS	SEE PLANS	FLOW BAR HIGH THROW	TITUS	4,5,6
K	LINEAR SLOT RETURN	ALUM	SEE PLANS	SEE PLANS	SEE PLANS	FLOW BAR RETURN AIR	TITUS	3,4,5
L	LINEAR SLOT SUPPLY	ALUM	SEE PLANS	SEE PLANS	SEE PLANS	FLOW BAR JET THROW	TITUS	3,4,5
Y	RADIAL PATTERN SUPPLY	STEEL	100-300	24x24	12	FRFDP	PRICE	1, 2
Z	RADIAL PATTERN SUPPLY	STEEL	301-550	48x24	12	FRFDP	PRICE	1, 2

NOTES
1. COORDINATE DIFFUSER AND GRILLE BORDER TYPE WITH LATEST ARCHITECTURAL CEILING TYPE TO INSURE MOUNTING COMPATIBILITY.
2. PROVIDE CORD OPERATED DAMPER FOR DIFFUSERS INSTALLED ABOVE INACCESSIBLE CEILINGS.
3. PROVIDE INTEGRATED INSULATED PLENUM WITH MATTE BLACK PAINTED INTERIOR, JET THROW AIR PATTERN CONTROLLER, MUD-IN FRAME TYPE 22.
4. PROVIDE CORD OPERATED DAMPER FOR DIFFUSERS INSTALLED ABOVE INACCESSIBLE CEILINGS.
5. PROVIDE BLANK OFF HOODS PAINTED MATTE BLACK FOR ALL INACTIVE SECTIONS.
6. PROVIDE INTEGRATED INSULATED PLENUM WITH MATTE BLACK PAINTED INTERIOR, HIGH THROW AIR PATTERN CONTROLLER, MUD-IN FRAME TYPE 22. UNLESS OTHERWISE NOTED ON PLANS.

FAN SCHEDULE

UNIT NUMBER	LOCATION	SERVICE	CFM	EXT. S.P. (IN. H_2O)	FAN RPM	WHEEL DIAMETER (IN.)	CLASS	MOTOR DATA @ 60 HZ BHP	MIN. MHP	RPM	VOLTS	PHASE	INLET VANES	VFD	FAN TYPE	SIMILAR TO	EQUIPMENT INTERLOCK	NOTES SEE BELOW	STAND-BY	EMER POWER
EF-1	PENTHOUSE FAN RM	HAZARDOUS LAB EXHAUST	16,667	3	1170	–	–	25.47	30	–	480	3	NO	YES	DILUTION	STROBIC TS3S300D12	AHU-2 THRU 5	1	NO	YES
EF-2	PENTHOUSE FAN RM	HAZARDOUS LAB EXHAUST	16,667	3	1170	–	–	25.47	30	–	480	3	NO	YES	DILUTION	STROBIC TS3S300D12	AHU-2 THRU 5	1	NO	YES
EF-3	PENTHOUSE FAN RM	HAZARDOUS LAB EXHAUST	16,667	3	1170	–	–	25.47	30	–	480	3	NO	YES	DILUTION	STROBIC TS3S300D12	AHU-2 THRU 5	1	NO	YES
EF-4	PENTHOUSE FAN RM	HAZARDOUS LAB EXHAUST	16,667	3	1170	–	–	25.47	30	–	480	3	NO	YES	DILUTION	STROBIC TS3S300D12	AHU-2 THRU 5	1	YES	YES
EF-5	PENTHOUSE FAN RM	GENERAL EXHAUST	23,333	5	1170	–	–	37.6	40	–	480	3	NO	YES	DILUTION	STROBIC TS4S400A12	AHU-2 THRU 4	1	NO	NO
EF-6	PENTHOUSE FAN RM	GENERAL EXHAUST	23,333	5	1170	–	–	37.6	40	–	480	3	NO	YES	DILUTION	STROBIC TS4S400A12	AHU-2 THRU 4	1	NO	NO
EF-7	PENTHOUSE FAN RM	GENERAL EXHAUST	23,333	5	1170	–	–	37.6	40	–	480	3	NO	YES	DILUTION	STROBIC TS4S400A12	AHU-2 THRU 4	1	NO	NO
EF-8	PENTHOUSE FAN RM	GENERAL EXHAUST	23,333	5	1170	–	–	37.6	40	–	480	3	NO	YES	DILUTION	STROBIC TS4S400A12	AHU-2 THRU 4	1	YES	NO
EF-9	BASEMENT	BASEMENT VENT	5,000	0.5	761	22	II	0.69	3	1170	480	3	NO	YES	INLINE	GREENHECK QIED-22-100	AHU-1	–	NO	NO
EF-10	PENTHOUSE	PENTHOUSE VENT	4,000	0.5	1161	20	II	1.24	2	1725	480	3	NO	NO	INLINE	GREENHECK BSQ-200HP	SF-3	–	NO	NO
TX-1	ROOF	TOILET EXHAUST	2,875	0.75	726	24	II	1.07	1-1/2	1725	480	3	NO	NO	MUSHROOM	GREENHECK G-240	AHU-1 THRU 5	2	NO	NO
SF-3	PENTHOUSE	PENTHOUSE VENT	4,500	0.66	871	24	II	1.32	2	1725	480	3	NO	NO	INLINE	GREENHECK BSQ-240HP	EF-10	3	NO	NO

NOTES:
1. STATIC PRESSURE LISTED IS UP TO FAN COMMON PLENUM, ALL OTHER STATIC PRESSURE ASSOCIATED WITH FAN SYSTEM TO BE ADDED BY MFG, PROVIDE AUTOMATIC ISOLATION DAMPER BETWEEN FAN INLET AND COMMON PLENUM, (1) JIB CRANE PER UNIT, TOP INLET DUCT CONENCTIONS, BYPASS AIR INLET SIZE FOR 50% TURNDOWN; NOZZLE, BYPASS AND OUTLET SOUND ATTENUATION, EQUALLY SPACED EXHAUST STACKS TO BE APPROVED BY ARCH, INDOOR FAN AND PLENUM ASSEMBLY WITH OUTDOOR ROOF MOUNTED STACK AND NOZZLE SUPPORT.
2. PROVIDE 12" ROOF CURB
3. MFG. TO PROVIDE INTEGRAL 2" FILTER MOUNTING FRAME AND FILTER. ASSOCIATED STATIC PRESSURE SHALL BE ADDED BY MFG.

CONFORMED SET: 05/29/2015

UNIVERSITY OF CONNECTICUT

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ISSUE/REVISION:

NO.	DATE	COMMENTS
1	03/20/2015	ADDENDUM 1

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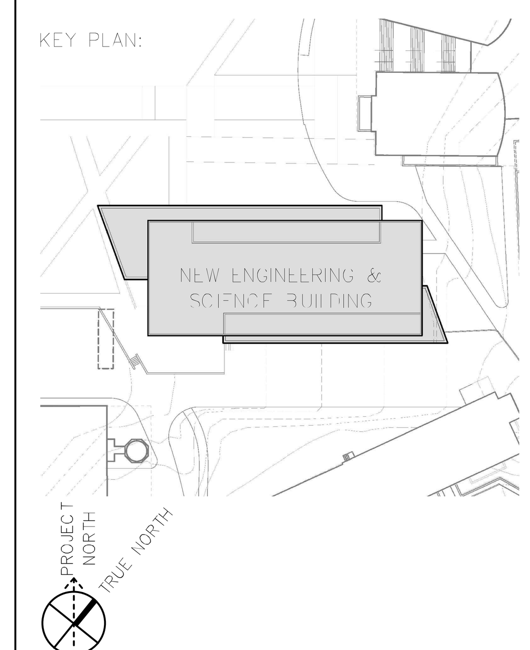
KEY PLAN:



PROJECT:
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:
HVAC SCHEDULES

PROJECT NO: 092203 | DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS | SCALE: N.T.S.

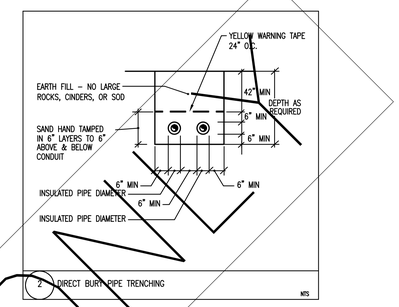
H0.02

ADDITIONAL WORK:
AS PART OF THE ENABLING CONTRACT (3) 16" STEAM ISOLATION VALVES SHALL BE REPLACED IN TOTAL. (2) VALVES ARE LOCATED WITHIN THE CUP AT PRV-1 AND (1) VALVE IS LOCATED WITHIN THE UTILITY TUNNEL AT THE POINT WHERE PRV-1 TIES INTO THE STEAM DISTRIBUTION HEADER. REPLACEMENT OF SAID VALVES SHALL ENABLE PRV-1 DIRECT BURY PIPING IN CONFLICT WITH NESB SITE WORK TO BE COMPLETELY ISOLATED FROM STEAM PRESSURE. REFER TO UNDERGROUND PIPING SPEC FOR STEAM VALVE REQUIREMENTS.

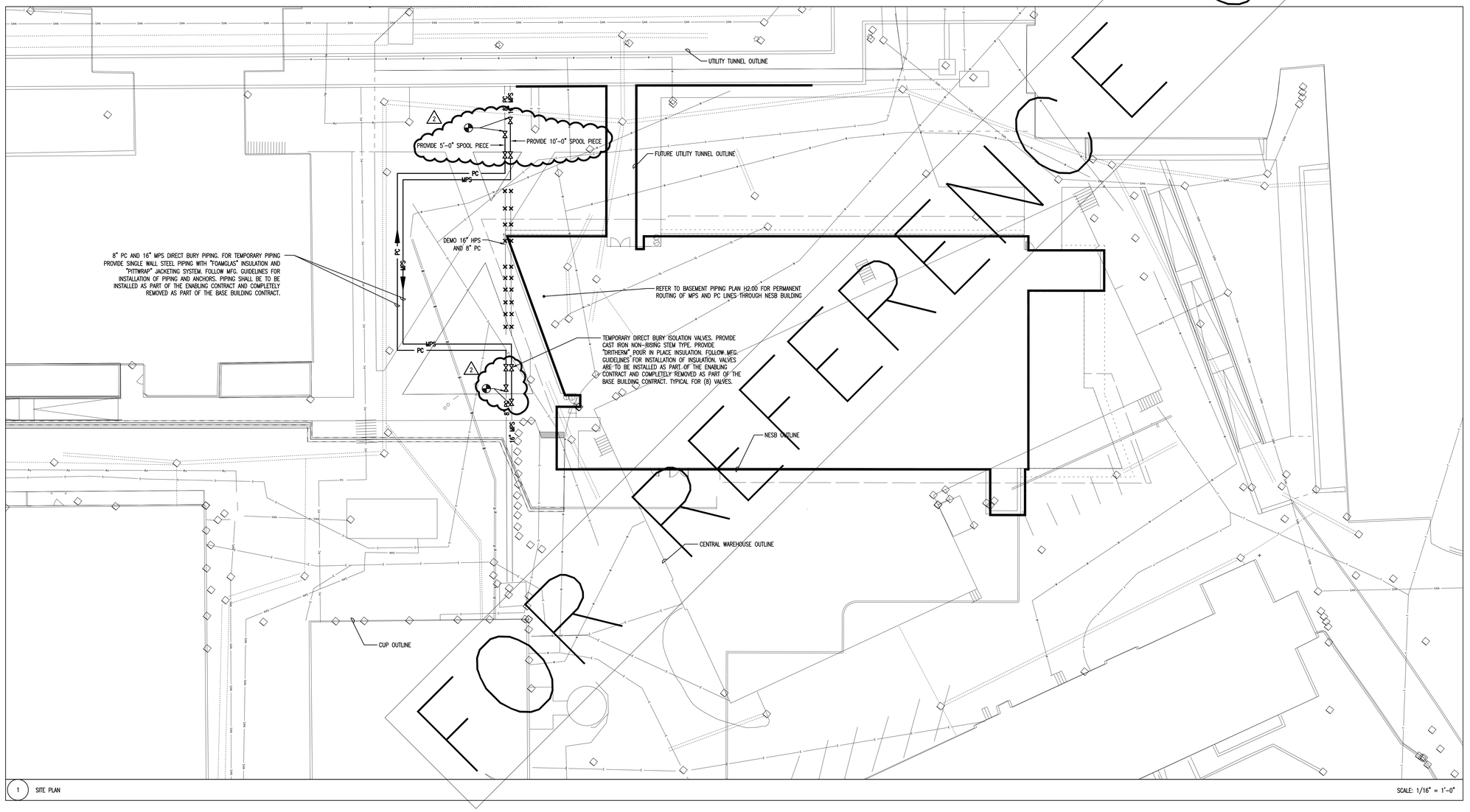
VALVE SPEC:

1. STEAM ISOLATION VALVES TO BE USED IN BELOW GRADE LOCATIONS INCLUDING UNDERGROUND TUNNELS AND VAULTS SHALL BE TRI-CON TRIPLE-OFFSET ROTARY ISOLATION VALVES MANUFACTURED BY ZWICK VALVES FOR STEAM, 150LB CLASS, WITH CARBON STEEL BODY AND STAINLESS STEEL SEAT, WITH CAST IRON GEAR OPERATOR SHALL BE 100% PACKED WITH HIGH TEMPERATURE GREASE FOR SUBMERGED SERVICE PER STANDARD IP68 STANDARD WITH VITON SEALS AND THREE-PART MARINE EPOXY COATING. A STAINLESS STEEL METAL INLAY SHALL BE PROVIDED TO STRENGTHEN THE CARBON GRAPHITE LAYERS IN THE LAMINATED SEAL RING. ALL VALVES SHALL BE PROVIDED WITH HAND-WHEEL AND A 2 INCH SQUARE OPERATING NUT ON THE CENTER OF THE HAND-WHEEL FOR REMOTE OPERATION USING A STANDARD TEE-HANDLE.
2. STEAM AND CONDENSATE VALVES 3" AND LARGER ABOVE GRADE APPLICATIONS – ZWICK TRI-CON TRIPLE-OFFSET ROTARY ISOLATION VALVES FOR STEAM OR CRANE FLOWSEAL VALVES FOR STEAM. ALL VALVES SHALL BE PROVIDED WITH HAND-WHEEL AND A 2 INCH SQUARE OPERATING NUT ON THE CENTER OF THE HAND-WHEEL FOR REMOTE OPERATION USING A STANDARD TEE-HANDLE.
3. TEMPORARY DIRECT BURY UNDERGROUND ISOLATION VALVES SHALL NOT BE HELD TO THE ABOVE REQUIREMENTS. SAID VALVES SHALL BE BE CAST IRON, 150LB CLASS, NON-RISING STEM FOR STEAM AND CONDENSATE SERVICE. THE CONTRACTOR SHALL PROVIDE A PROPOSED MFG. AND VALVE SUBMITTAL FOR OWNER AND ENGINEER APPROVAL.
4. BLOCK AND BLEED VALVE ARRANGEMENTS SHOULD BE LOCATED AT LOCATIONS TO ISOLATE LOGICAL PORTIONS OF STEAM SYSTEM FOR MAINTENANCE OR EMERGENCY REPAIRS. BLEED/VENT SHALL BE ACCESSIBLE AND OPERABLE.

3 ADDITIONAL NOTES



2 DIRECT BURY PIPE TRENCHING NTS



1 SITE PLAN SCALE: 1/16" = 1'-0"

FOR REFERENCE

FOR CONSTRUCTION

UNIVERSITY OF CONNECTICUT

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1	6/20/15	ADDENDUM 3
NO.	DATE	COMMENTS

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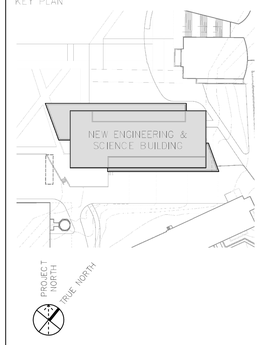
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING: SITE ENABLING

Drawing Title:

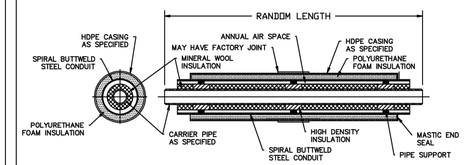
HVAC ENABLING SITE PLAN

CONFORMED SET: 05/29/2015

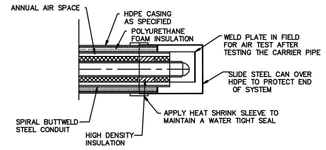
PROJECT NO:	DATE:
PHASE:	SCALE: AS NOTED

H0.10

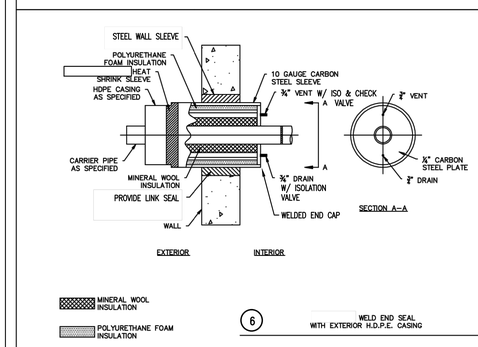
J:\JOBS\2946000.KB\HVAC\H0.10 SITE PLAN.DWG 04-20-2015 18:32:45 - cdd



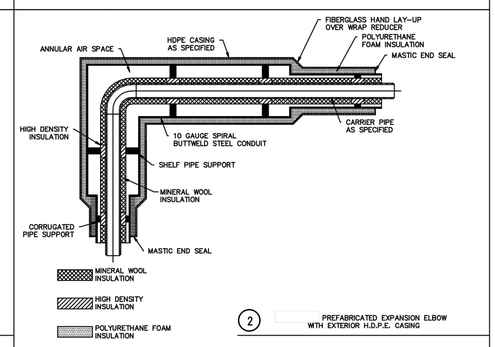
5 RANDOM LENGTH WITH EXTERIOR H.D.P.E. CASING



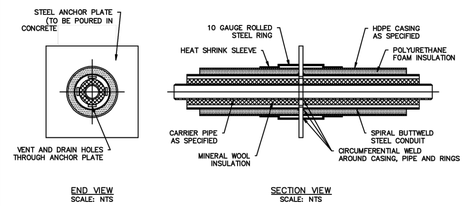
1 FIELD APPLIED CAP FOR FUTURE



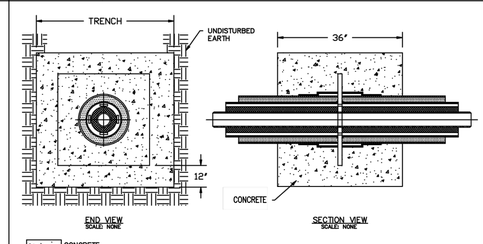
6 WELD END SEAL WITH EXTERIOR H.D.P.E. CASING



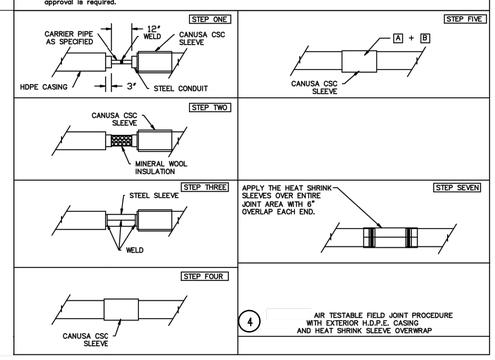
2 PREFABRICATED EXPANSION ELBOW WITH EXTERIOR H.D.P.E. CASING



7 ANCHOR DETAIL WITH EXTERIOR H.D.P.E. CASING



3 THRUST BLOCK DETAIL



4 AIR TESTABLE FIELD JOINT PROCEDURE WITH EXTERIOR H.D.P.E. CASING AND HEAT SHRINK SLEEVE OVERWRAP

DIRECT BURY STEAM PIPING DETAILS

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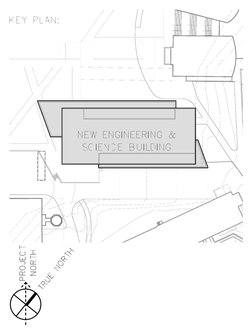
ISSUE/REVISION:

NO.	DATE	COMMENTS
1	05/20/2015	ADDENDUM 1

KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

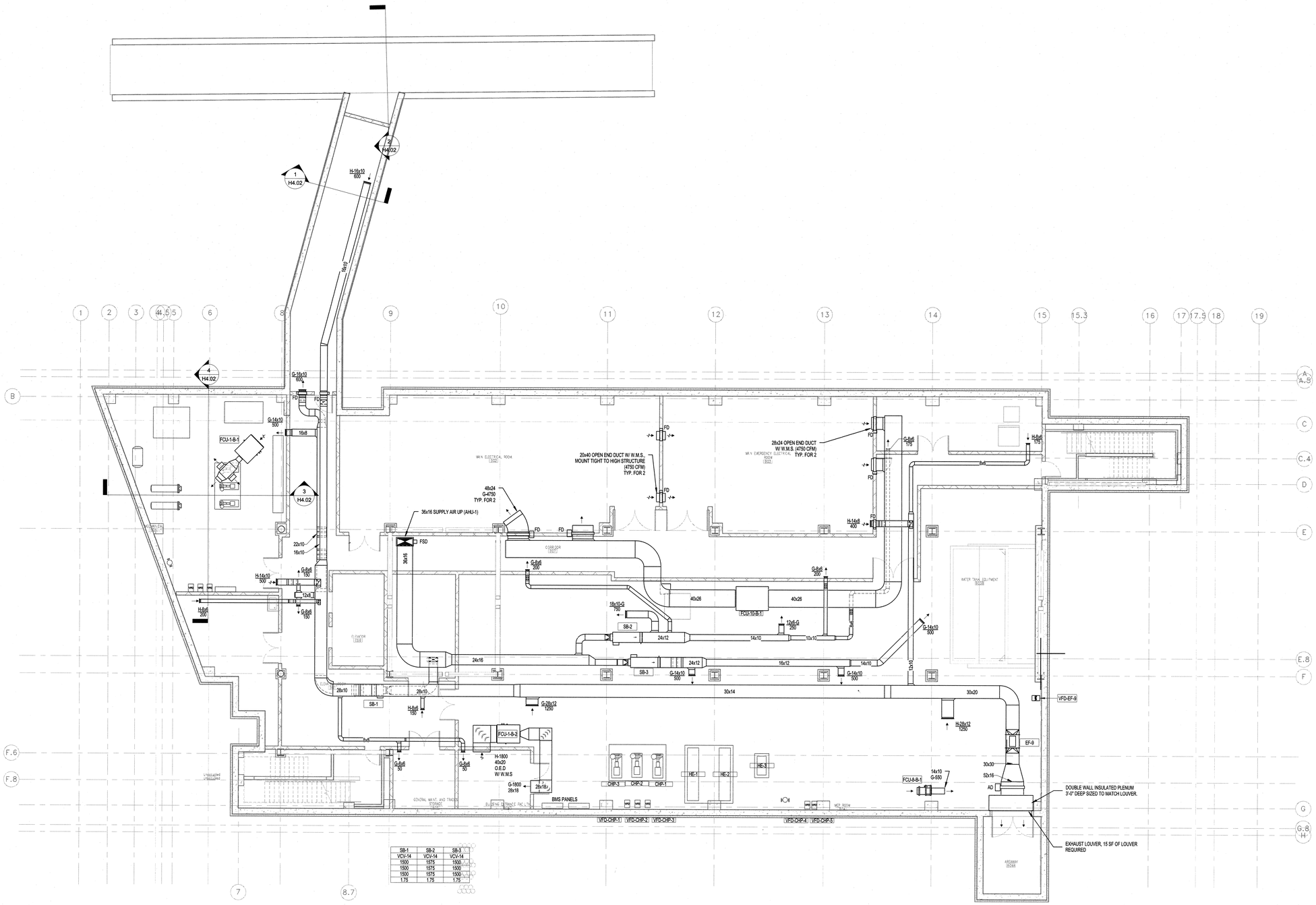
DRAWING TITLE:

HVAC
SITE DETAILS

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: N.T.S.

H0.11

CONFORMED SET: 05/29/2015



SB-1	SB-2	SB-3
VCV-14	VCV-14	VCV-14
1500	1575	1500
1500	1575	1500
1500	1575	1500
1.75	1.75	1.75

01 BASEMENT DUCTWORK PLAN
1/8" = 1'-0"

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ISSUE/REVISION:

NO.	DATE	COMMENTS

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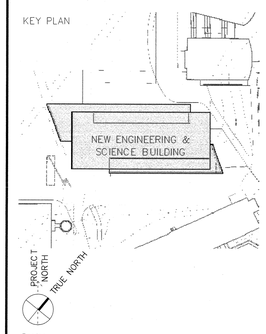
KEY PLAN



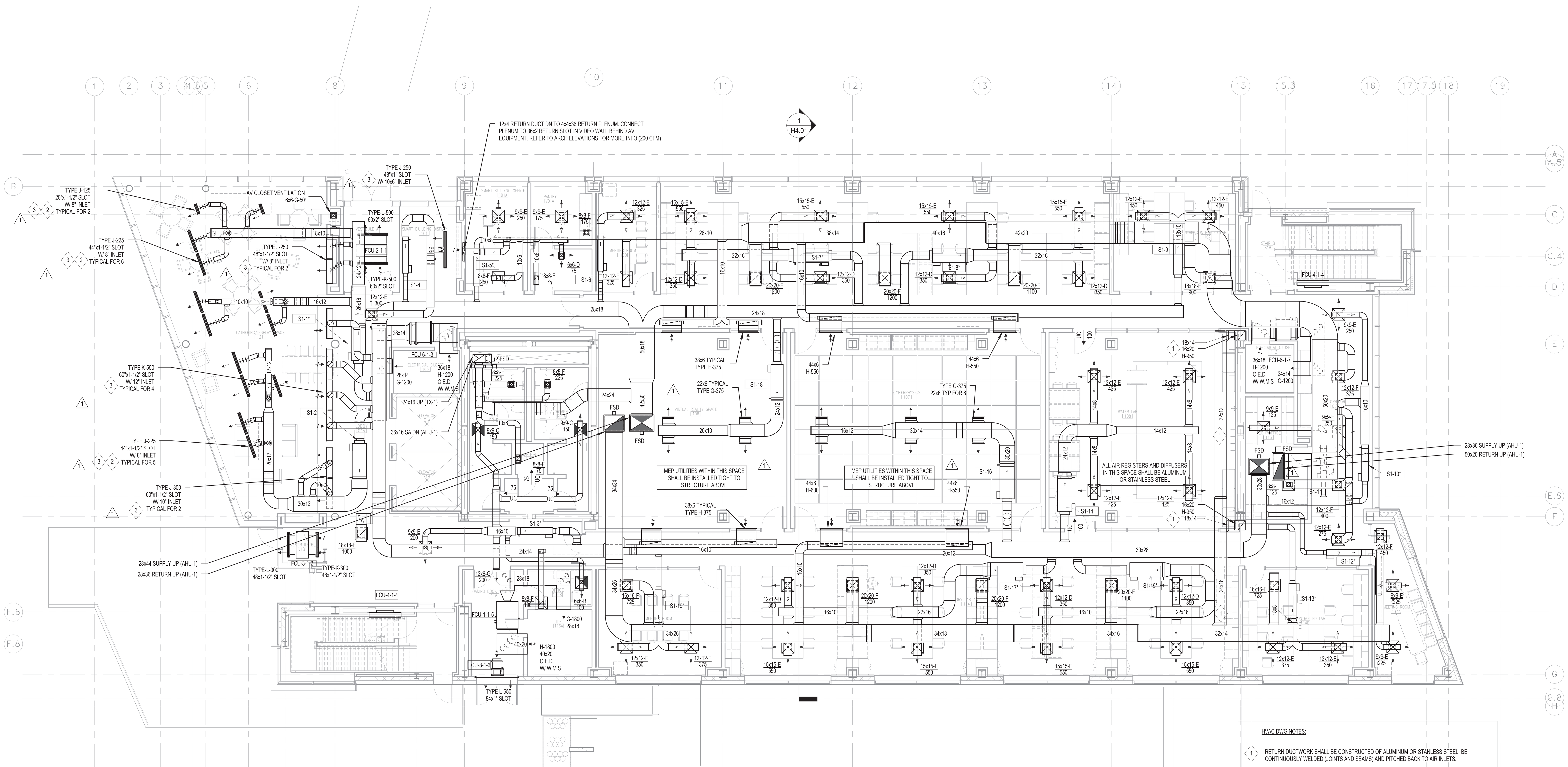
Project:
NEW ENGINEERING AND SCIENCE BUILDING

Drawing Title:
BASEMENT DUCTWORK PLAN

CONFORMED SET: 05/29/2015

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

H1.00



VAV TAG	S1-1*	S1-2	S1-3*	S1-4	S1-5*	S1-6*	S1-7*	S1-8*	S1-9*	S1-10*	S1-11	S1-12*	S1-13*	S1-14	S1-15*	S1-16	S1-17*	S1-18	S1-19*
TYPE	VCV-16	VCV-16	VCV-10	VCV-8	VCV-8	VCV-6	VCV-16	VCV-16	VCV-10	VCV-10	VCV-5	VCV-8	VCV-10	VCV-16	VCV-16	VCV-16	VCV-16	VCV-14	VCV-10
MAX CFM	2150	1725	800	550	500	325	1800	1800	900	775	125	450	725	1700	1800	2250	1800	1500	725
MIN CFM	1075	863	800	550	250	163	900	900	450	388	63	225	363	1700	900	1125	900	750	363
HEATING CFM	1075	863	800	550	250	163	900	900	450	388	63	225	363	1700	900	1125	900	750	363
REHEAT GPM	2.00	1.75	1.50	1.00	0.50	0.50	1.75	1.75	1.00	0.75	0.50	0.50	0.75	2.00	1.75	1.25	1.75	1.00	0.75

* EXTERIOR ZONE, REFER TO H0.02 AIR TERMINAL BOX SCHEDULE FOR FURTHER INFO.

HVAC DWG NOTES:

1. RETURN DUCTWORK SHALL BE CONSTRUCTED OF ALUMINUM OR STANLESS STEEL, BE CONTINUOUSLY WELDED (JOINTS AND SEAMS) AND PITCHED BACK TO AIR INLETS.
2. FOR CEILING MOUNTED LINEAR DIFFUSERS WITHIN THIS SPACE PROVIDE TITUS FRAME TYPE 55, EXTERIOR AND INTERIOR OF FRAME SHALL BE PAINTED MATTE BLACK, FRAME SHALL BE SUPPORTED FROM STRUCTURE ABOVE WITH CEILING HANGER WIRE.
3. (Rev. 1) REFER TO ARCHITECTURAL PLANS FOR TOTAL REQUIRED LENGTH OF LINEAR DIFFUSER. PROVIDE BLANK OFF HOODS PAINTED MATTE BLACK FOR ALL INACTIVE SECTIONS. TYPICAL.

01 FIRST FLOOR DUCTWORK PLAN
1/8" = 1'-0"

CONFORMED SET: 05/29/2015

UNIVERSITY OF CONNECTICUT

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ISSUE/REVISION:

NO.	DATE	COMMENTS
1	03/20/2015	ADDENDUM 1

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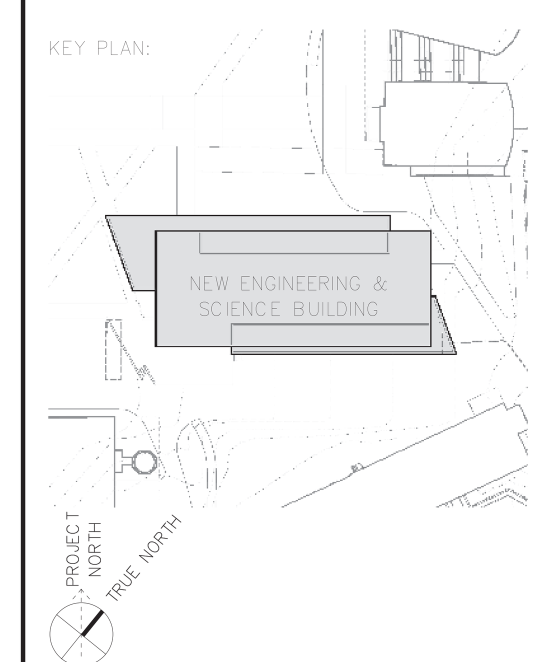
KEY PLAN:

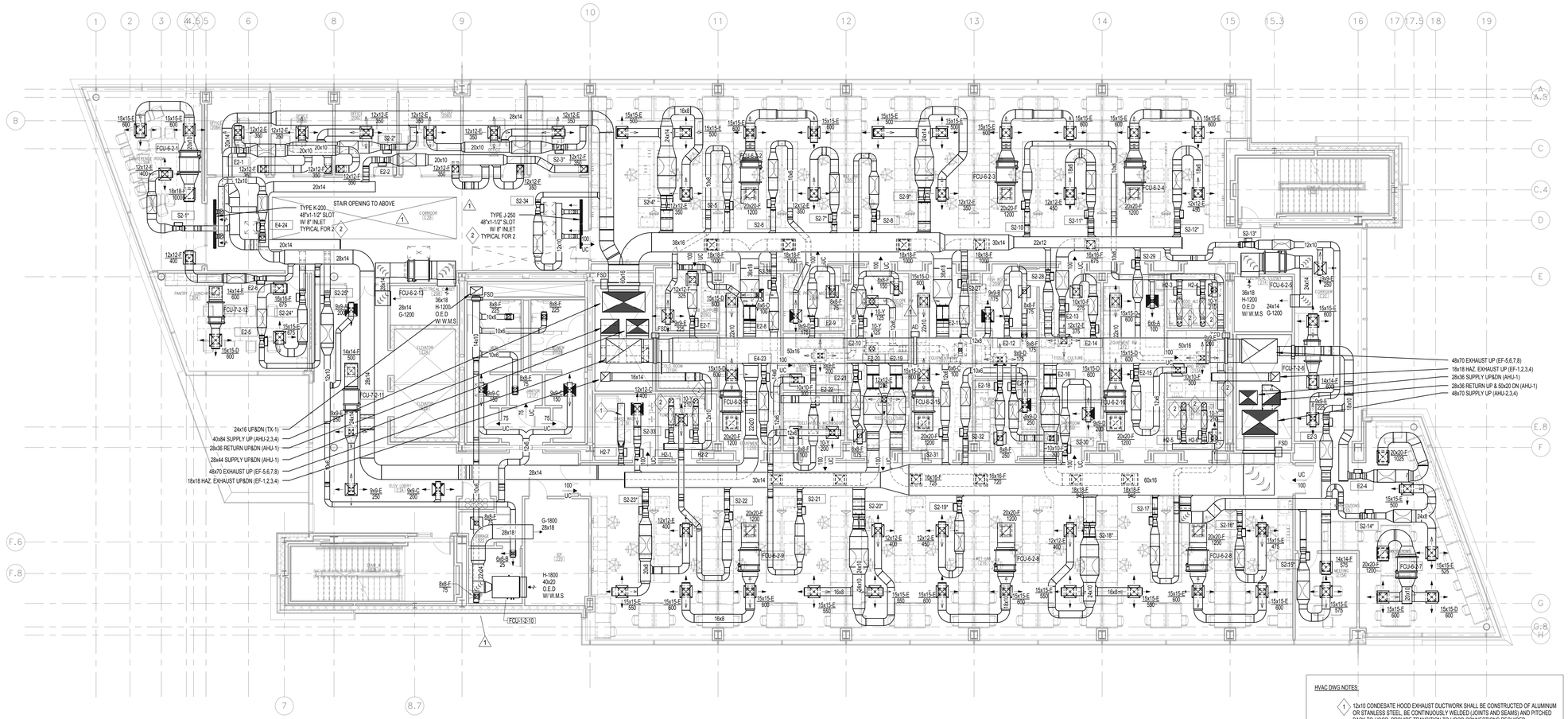


PROJECT:
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:
FIRST FLOOR DUCTWORK PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

H1.01



SV TAG	S2-1*	S2-2*	S2-3*	S2-4*	S2-5	S2-6	S2-7*	S2-8	S2-9*	S2-10	S2-11*	S2-12*	S2-13*	S2-14*	S2-15*	S2-16*	S2-17	S2-18*	S2-19*	S2-20*	S2-21	S2-22	S2-23*	S2-24*	S2-25*	S2-26	S2-27	S2-28	S2-29	S2-30	S2-31	S2-32	S2-33	S2-34
TYPE	SV-1	SV-2	SV-2	SV-3	SV-1	SV-1	SV-1	SV-1	SV-3	SV-1	SV-1	SV-1	SV-1	SV-2	SV-2	SV-1	SV-1	SV-3	SV-1	SV-3	SV-1	SV-1	SV-2	SV-2	SV-2	SV-1	SV-1	SV-1	SV-1	SV-1	SV-1	SV-1	SV-1	SV-1
MAX CFM	400	1050	1050	1350	325	175	350	200	1350	310	450	450	475	1025	575	475	210	1500	450	1500	200	210	950	675	950	275	350	375	200	200	350	250	400	500
MIN CFM	200	525	525	675	163	125	350	100	675	310	450	450	475	513	288	475	210	750	450	750	150	210	950	338	725	150	175	150	100	100	350	125	200	250
HEATING CFM	200	525	525	675	163	125	350	100	675	310	450	450	475	513	288	475	210	750	450	750	150	210	950	338	725	150	175	150	100	100	350	125	200	250
REHEAT GPM	0.50	1.00	1.00	1.25	0.50	0.50	0.75	0.50	1.25	0.50	1.00	1.00	1.00	1.00	0.75	1.00	0.50	1.50	1.00	1.50	0.50	0.50	1.75	0.75	1.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50

EV TAG	E2-1	E2-2	E2-3	E2-4	E2-5	E2-6	E2-7	E2-8	E2-9	E2-10	E2-11	E2-12	E2-13	E2-14	E2-15	E2-16	E2-17	E2-18	E2-19	E2-20	E2-21	E2-22	E4-23	E4-24
TYPE	EV-2	EV-2	EV-2	EV-2	EV-2	EV-1	EV-1	EV-3	EV-1	EV-1	EV-3	EV-1	EV-2	EV-1	EV-1	EV-3	EV-1	EV-1	EV-3	EV-3	EV-1	EV-1	EV-1	EV-1
MAX CFM	1050	1050	575	1025	675	400	325	2000	75	150	2000	350	675	275	300	1090	300	250	1445	1890	175	100	300	400
MIN CFM	525	525	288	513	338	200	283	380	25	150	380	175	675	50	200	500	200	125	1445	500	50	50	200	150

EV TAG	H2-1	H2-2	H2-3	H2-4	H2-5	H2-6	H2-7
TYPE	HV-1	HV-1	HV-1	HV-1	HV-1	HV-1	HV-1
MAX CFM	425	425	425	425	425	425	500
MIN CFM	105	105	105	105	105	105	300

* EXTERIOR ZONE. REFER TO H0.02 AIR TERMINAL BOX SCHEDULE FOR FURTHER INFO.

HVAC DWG NOTES:

1. 12x10 CONDESATE HOOD EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF ALUMINUM OR STAINLESS STEEL, BE CONTINUOUSLY WELDED (JOINTS AND SEAMS) AND PITCHED BACK TO HOOD. PROVIDE TRANSITION TO HOOD CONNECTIONS REQUIRED.
2. 10" Ø CONNECTION DN. TO FUME HOOD. PROVIDE TRANSITION AS REQUIRED. TYPICAL. (425 CFM)

01 SECOND FLOOR DUCTWORK PLAN
1/8" = 1'-0"

UNIVERSITY OF CONNECTICUT

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ISSUE/REVISION:		
NO.	DATE	COMMENTS
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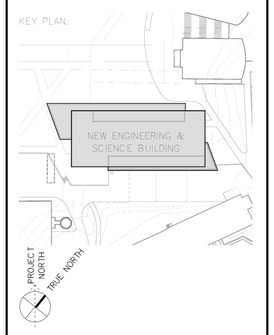
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

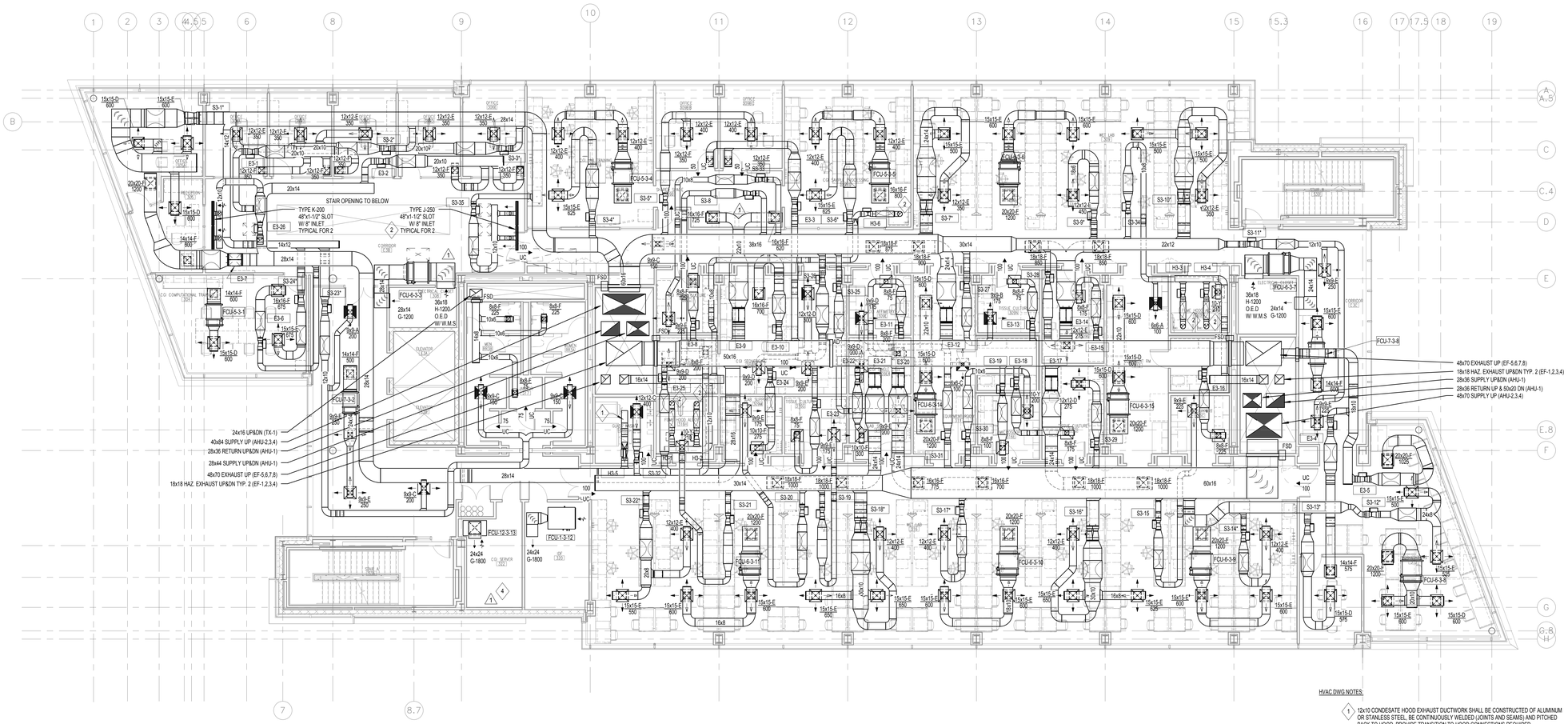
DRAWING TITLE:

SECOND FLOOR DUCTWORK PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

H1.02

CONFORMED SET: 05/29/2015



SV TAG	S3-1"	S3-2"	S3-3"	S3-4"	S3-5"	S3-6"	S3-7"	S3-8	S3-9"	S3-10"	S3-11"	S3-12"	S3-13"	S3-14"	S3-15	S3-16"	S3-17"	S3-18"	S3-19	S3-20	S3-21	S3-22"	S3-23"	S3-24"	S3-25	S3-26	S3-27	S3-28	S3-29	S3-30	S3-31	S3-32	S3-33	S3-34	S3-35
TYPE	SV-3	SV-2	SV-2	SV-2	SV-2	SV-2	SV-2	SV-1	SV-1	SV-3	SV-1	SV-2	SV-2	SV-1	SV-1	SV-3	SV-1	SV-3	SV-1	SV-1	SV-1	SV-2	SV-2	SV-2	SV-1	SV-2	SV-1	SV-1	SV-1	SV-1	SV-1	SV-1	SV-1	SV-1	SV-1
MAX CFM	1800	1050	700	625	800	625	850	200	450	1350	475	1025	575	400	225	1675	400	1700	175	175	210	950	700	675	200	700	175	275	275	475	200	400	375	310	500
MIN CFM	900	525	350	625	400	625	425	100	450	675	475	513	288	400	113	750	400	750	150	88	210	475	700	338	100	350	150	150	150	475	150	100	375	310	250
HEATING CFM	900	525	350	625	400	625	425	100	450	675	475	513	288	400	113	750	400	750	150	88	210	475	700	338	100	350	150	150	150	475	150	100	375	310	250
REHEAT GPM	1.75	1.00	0.75	1.25	0.75	1.25	1.00	0.50	1.00	1.25	1.00	1.00	0.75	0.75	0.50	1.50	0.75	1.50	0.50	0.50	0.50	1.00	1.50	0.75	0.50	0.50	0.50	0.50	0.50	0.75	0.50	0.50	0.50	0.50	0.50

EV TAG	E3-1	E3-2	E3-3	E3-4	E3-5	E3-6	E3-7	E3-8	E3-9	E3-10	E3-11	E3-12	E3-13	E3-14	E3-15	E3-16	E3-17	E3-18	E3-19	E3-20	E3-21	E3-22	E3-23	E3-24	E3-25	E3-26
TYPE	EV-2	EV-2	EV-2	EV-2	EV-2	EV-2	EV-3	EV-1	EV-3	EV-2	EV-1	EV-3	EV-1	EV-3	EV-1	EV-1	EV-3	EV-1	EV-1	EV-3	EV-3	EV-1	EV-1	EV-1	EV-1	EV-1
MAX CFM	1050	700	700	575	1025	675	1800	125	1345	700	275	1775	75	1700	175	225	2000	175	100	1475	2000	300	75	275	200	400
MIN CFM	525	350	350	288	513	338	900	125	1020	350	275	686	50	850	50	113	500	50	50	585	500	200	150	188	187	150

EV TAG	H3-1	H3-2	H3-3	H3-4	H3-5	H3-6
TYPE	HV-1	HV-1	HV-1	HV-1	HV-1	HV-1
MAX CFM	425	425	425	425	500	425
MIN CFM	105	105	105	105	200	105

* EXTERIOR ZONE. REFER TO H0.02 AIR TERMINAL BOX SCHEDULE FOR FURTHER INFO.

HVAC DWG NOTES:

1. 12x10 CONDESATE HOOD EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF ALUMINUM OR STAINLESS STEEL, BE CONTINUOUSLY WELDED (JOINTS AND SEAMS) AND PITCHED BACK TO HOOD. PROVIDE TRANSITION TO HOOD CONNECTIONS REQUIRED.
2. 10" Ø CONNECTION DN. TO FUME HOOD. PROVIDE TRANSITION AS REQUIRED. TYPICAL. (425 CFM)
3. REFER TO ARCHITECTURAL PLANS FOR TOTAL REQUIRED LENGTH OF LINEAR DIFFUSER. PROVIDE BLANK OFF HOODS PAINTED MATTE BLACK FOR ALL INACTIVE SECTIONS. TYPICAL.
4. ALTERNATE #8 - ROOM 322 OFFICE PLAN.
   - DELETE FCU-12-3-13 AND ASSOCIATED PIPING AND DUCTWORK.
   - ADD 9x9-E-150 SUPPLY DIFFUSER AND 8x8-F-150 EXHAUST DIFFUSER.
   - ADD 10x6 SUPPLY BRANCH DUCT FOM ZONE S3-23 (20 FT), ADD 10x6 EXHAUST DUCT FROM TOILET EXHAUST SYSTEM (40 FT). ACCOUNT FOR (6) ELBOWS.
   - LOCATE ZONE S3-23 THERMOSTAT IN OFFICE 322.

01 THIRD FLOOR DUCTWORK PLAN
1/8" = 1'-0"

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ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	03/26/2015	ADDENDUM 1

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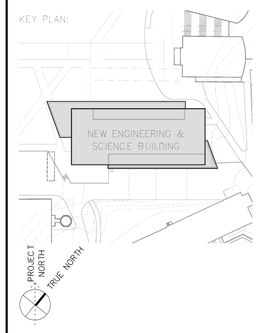
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

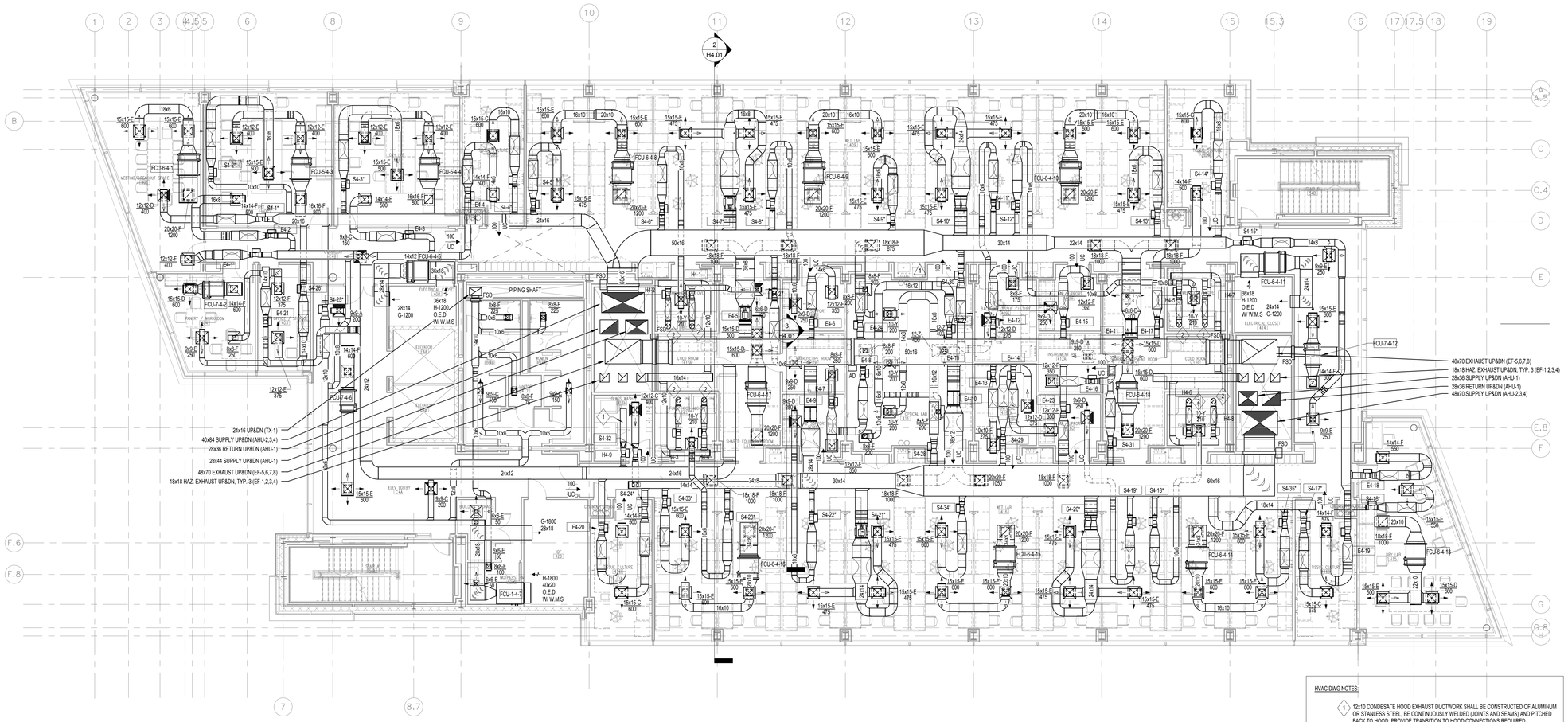
DRAWING TITLE:

THIRD FLOOR DUCTWORK PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

H1.03

CONFORMED SET: 05/29/2015



HVAC DWG NOTES:

1. 12x10 CONDESATE HOOD EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF ALUMINUM OR STAINLESS STEEL, BE CONTINUOUSLY WELDED (JOINTS AND SEAMS) AND PITCHED BACK TO HOOD. PROVIDE TRANSITION TO HOOD CONNECTIONS REQUIRED.
2. 10" Ø CONNECTION DN. TO FUME HOOD. PROVIDE TRANSITION AS REQUIRED. TYPICAL. (425 CFM)

01 FOURTH FLOOR DUCTWORK PLAN
1/8" = 1'-0"

SV TAG	S4-1*	S4-2*	S4-3*	S4-4*	S4-5*	S4-6*	S4-7*	S4-8*	S4-9*	S4-10*	S4-11*	S4-12*	S4-13*	S4-14*	S4-15*	S4-16*	S4-17*	S4-18*	S4-19*	S4-20*	S4-21*	S4-22*	S4-23*	S4-24*	S4-25*	S4-26*	S4-27	S4-28	S4-29	S4-30	S4-31	S4-32	S4-33*	S4-34*	S4-35*
TYPE	SV-1	SV-1	SV-1	SV-2	SV-1	SV-1	SV-3	SV-1	SV-1	SV-3	SV-1	SV-1	SV-1	SV-2	SV-1	SV-1	SV-2	SV-1	SV-1	SV-3	SV-3	SV-1	SV-1	SV-2	SV-2	SV-2	SV-1	SV-2	SV-1	SV-1	SV-1	SV-1	SV-2	SV-2	SV-2
MAX CFM	400	500	500	600	475	310	1425	250	475	1425	250	310	475	600	500	550	675	210	250	1425	1425	250	200	600	850	625	250	1000	375	275	250	400	600	600	600
MIN CFM	200	250	250	300	475	310	713	125	475	713	125	310	475	300	500	275	338	210	125	713	713	125	210	300	950	313	125	500	188	138	125	200	600	600	600
HEATING CFM	200	250	250	300	475	310	713	125	475	713	125	310	475	300	500	275	338	210	125	713	713	125	210	300	950	313	125	500	188	138	125	200	600	600	600
REHEAT GPM	0.50	0.50	0.50	0.50	0.75	0.50	1.00	0.50	0.75	1.00	0.50	0.50	0.75	0.50	0.75	0.50	0.50	0.50	0.50	1.00	1.00	0.50	0.50	0.50	1.25	0.50	0.50	0.75	0.50	0.50	0.50	0.50	0.75	0.75	0.75

EV TAG	E4-1	E4-2	E4-3	E4-4	E4-5	E4-6	E4-7	E4-8	E4-9	E4-10	E4-11	E4-12	E4-13	E4-14	E4-15	E4-16	E4-17	E4-18	E4-19	E4-20	E4-21	E4-22	E4-23	E4-24
TYPE	EV-1	EV-1	EV-1	EV-1	EV-3	EV-1	EV-1	EV-1	EV-3	EV-3	EV-3	EV-1	EV-1	EV-1	EV-1	EV-1	EV-1	EV-1	EV-2	EV-1	EV-2	EV-2	EV-2	EV-2
MAX CFM	400	500	500	500	2000	350	350	250	2000	2050	2000	175	275	350	350	350	500	550	575	500	625	800	1000	875
MIN CFM	200	250	250	200	647	225	225	125	785	735	1000	38	87	225	225	225	200	275	238	200	313	400	1000	875

EV TAG	H4-1	H4-2	H4-3	H4-4	H4-5	H4-6	H4-7	H4-8	H4-9
TYPE	HV-1	HV-1	HV-1	HV-1	HV-1	HV-1	HV-1	HV-1	HV-1
MAX CFM	425	425	425	425	425	425	425	425	500
MIN CFM	105	105	105	105	105	105	105	105	300

* EXTERIOR ZONE. REFER TO H0.02 AIR TERMINAL BOX SCHEDULE FOR FURTHER INFO.

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ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	05/26/2015	ADDENDUM 1

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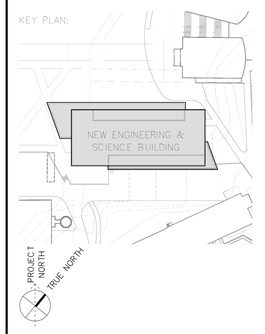
KEY PLAN:



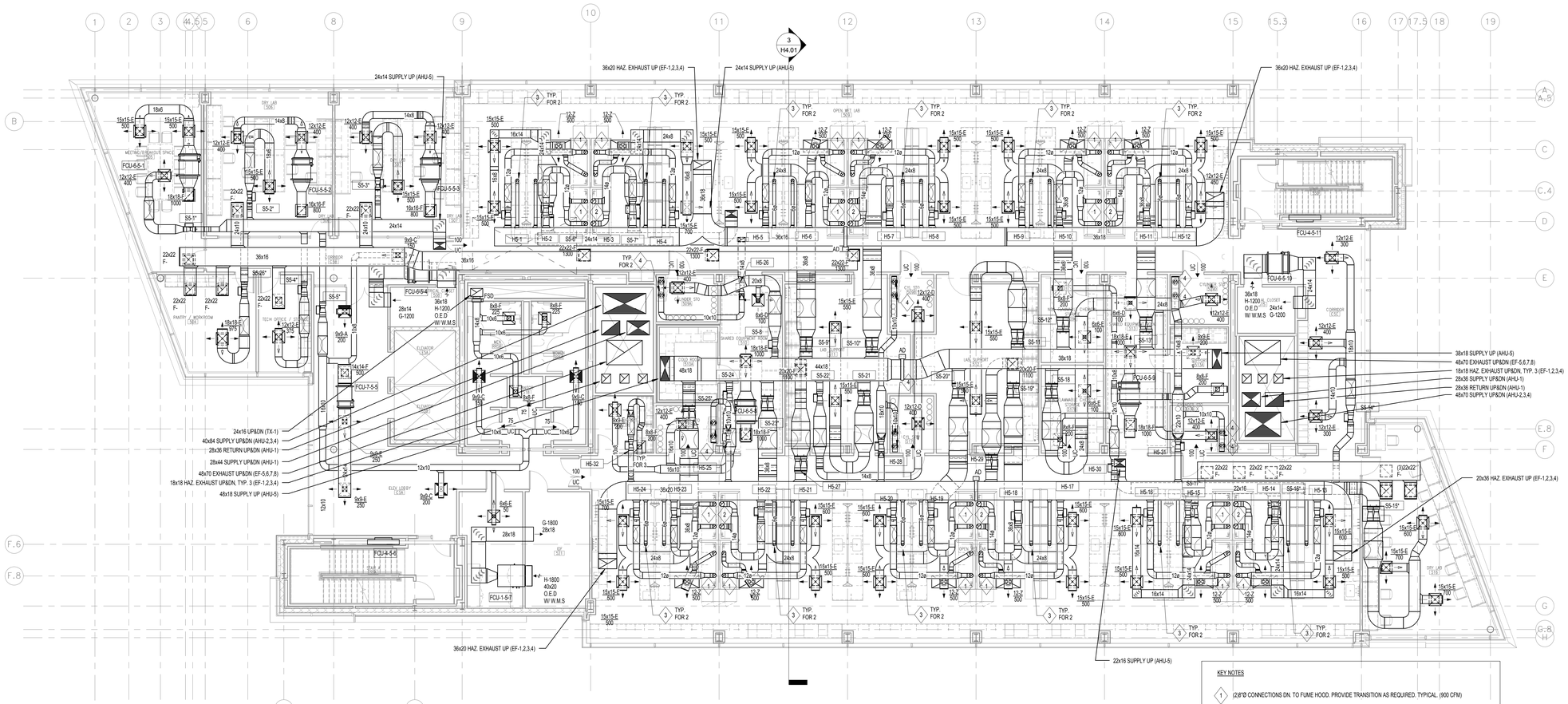
PROJECT:
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:
FOURTH FLOOR DUCTWORK PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

CONFORMED SET: 05/29/2015

H1.04



KEY NOTES

1. (2)6"Ø CONNECTIONS DN. TO FUME HOOD. PROVIDE TRANSITION AS REQUIRED. TYPICAL. (900 CFM)
2. (2)10"Ø CONNECTIONS DN. TO FUME HOOD. PROVIDE TRANSITION AS REQUIRED. TYPICAL. (1100 CFM)
3. 6"Ø CONNECTION TO SNORKEL. REFER TO H5.02#11 FOR FURTHER INFO. TYPICAL. (50 CFM)
4. 8"Ø DN TO 6"Ø GAS CYCLINDER STORAGE CABINENT. REFER H5.02#12 FOR FURTHER INFO. TYPICAL. (250 CFM)

SV TAG	SS-1*	SS-2*	SS-3*	SS-4*	SS-5*	SS-6*	SS-7*	SS-8	SS-9*	SS-10*	SS-11	SS-12*	SS-13*	SS-14*	SS-15*	SS-16*	SS-17*	SS-18	SS-19*	SS-20*	SS-21	SS-22	SS-23*	SS-24	SS-25*	SS-26*
TYPE	SV-1	SV-1	SV-1	SV-1	SV-2	SV-2	SV-2	SV-1	SV-3	SV-3	SV-3	SV-3	SV-3	SV-2	SV-3	SV-3	SV-3	SV-3	SV-3	SV-3	SV-3	SV-2	SV-3	SV-2	SV-3	SV-2
MAX CFM	400	500	500	375	700	1000	1000	500	1500	1500	1100	1500	1450	1000	2000	1600	1600	1300	1600	1600	1100	800	1600	600	1700	975
MIN CFM	400	500	500	375	900	225	150	500	150	150	550	150	150	1000	2000	275	275	1300	275	275	550	800	275	600	330	488
HEATING CFM	400	500	500	375	900	1500	1500	500	1500	1500	550	1500	1450	1000	2000	1600	1600	1300	1600	1600	550	800	1600	600	1700	488
REHEAT GPM	0.50	0.75	0.75	0.50	1.00	2.75	2.75	0.75	2.75	2.75	0.75	2.75	2.75	1.25	2.25	3.00	3.00	1.50	3.00	3.00	0.75	1.00	3.00	0.75	3.25	0.75

EV TAG	H5-1	H5-2	H5-3	H5-4	H5-5	H5-6	H5-7	H5-8	H5-9	H5-10	H5-11	H5-12	H5-13	H5-14	H5-15	H5-16	H5-17	H5-18	H5-19	H5-20	H5-21	H5-22	H5-23	H5-24	H5-25	H5-26	H5-27	H5-28	H5-29	H5-30	H5-31	H5-32
TYPE	HV-2	HV-2	HV-3	HV-2	HV-2	HV-2	HV-3	HV-2	HV-2	HV-2	HV-3	HV-2	HV-2	HV-3	HV-2	HV-2	HV-2	HV-3	HV-2	HV-2	HV-2	HV-3	HV-2	HV-2	HV-1	HV-1	EV-3	HV-2	EV-3	EV-2	HV-2	HV-1
MAX CFM	900	900	1100	900	900	900	1100	900	900	900	1100	900	900	1100	900	900	900	1100	900	900	900	1100	900	900	500	500	1100	1000	1100	600	1000	200
MIN CFM	225	225	460	225	225	225	460	225	225	225	460	225	225	460	225	225	225	460	225	225	225	460	225	225	500	500	550	1000	550	600	1000	200

* EXTERIOR ZONE, REFER TO H0.02 AIR TERMINAL BOX SCHEDULE FOR FURTHER INFO.

01 FIFTH FLOOR DUCTWORK PLAN
1/8" = 1'-0"

CONFORMED SET: 05/29/2015

UNIVERSITY OF CONNECTICUT

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1	05/08/2015	ADDENDUM 4

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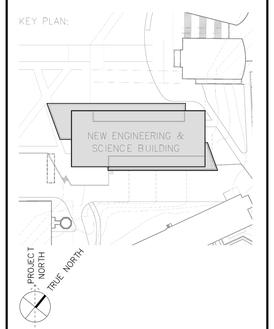


PROJECT:

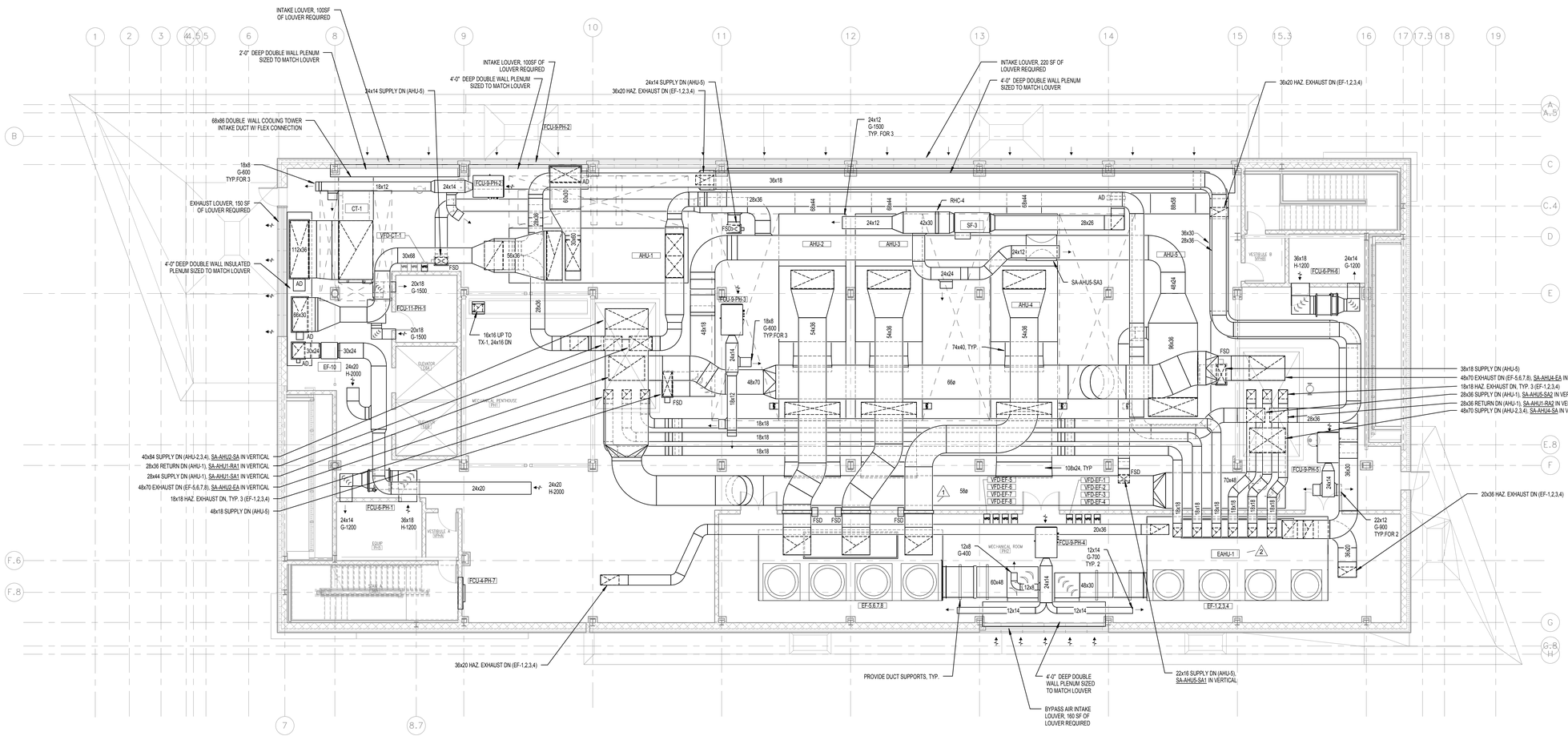
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:

FIFTH FLOOR DUCTWORK PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

H1.05



01 PENTHOUSE DUCTWORK PLAN
1/8" = 1'-0"

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1	04/20/2015	ADDENDUM 5
2	05/08/2015	ADDENDUM 6

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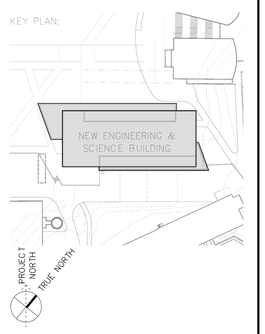
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

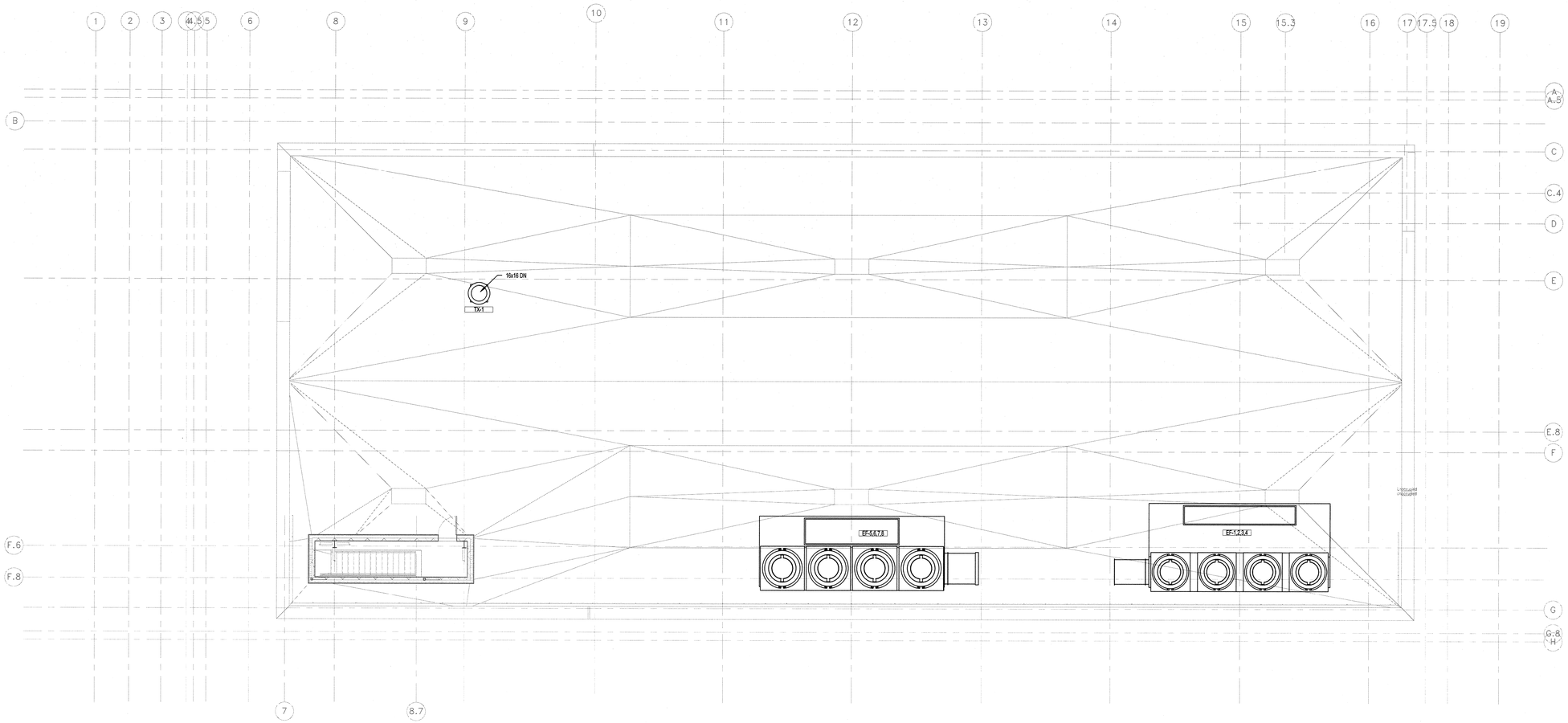
DRAWING TITLE:

PENTHOUSE DUCTWORK PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

H1.06

CONFORMED SET: 05/29/2015



01 ROOF DUCTWORK PLAN
1/8" = 1'-0"

UNIVERSITY OF CONNECTICUT

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203 857 0200

ISSUE/REVISION:

NO.	DATE	COMMENTS

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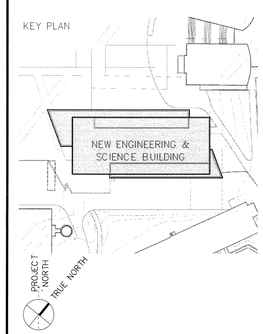
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

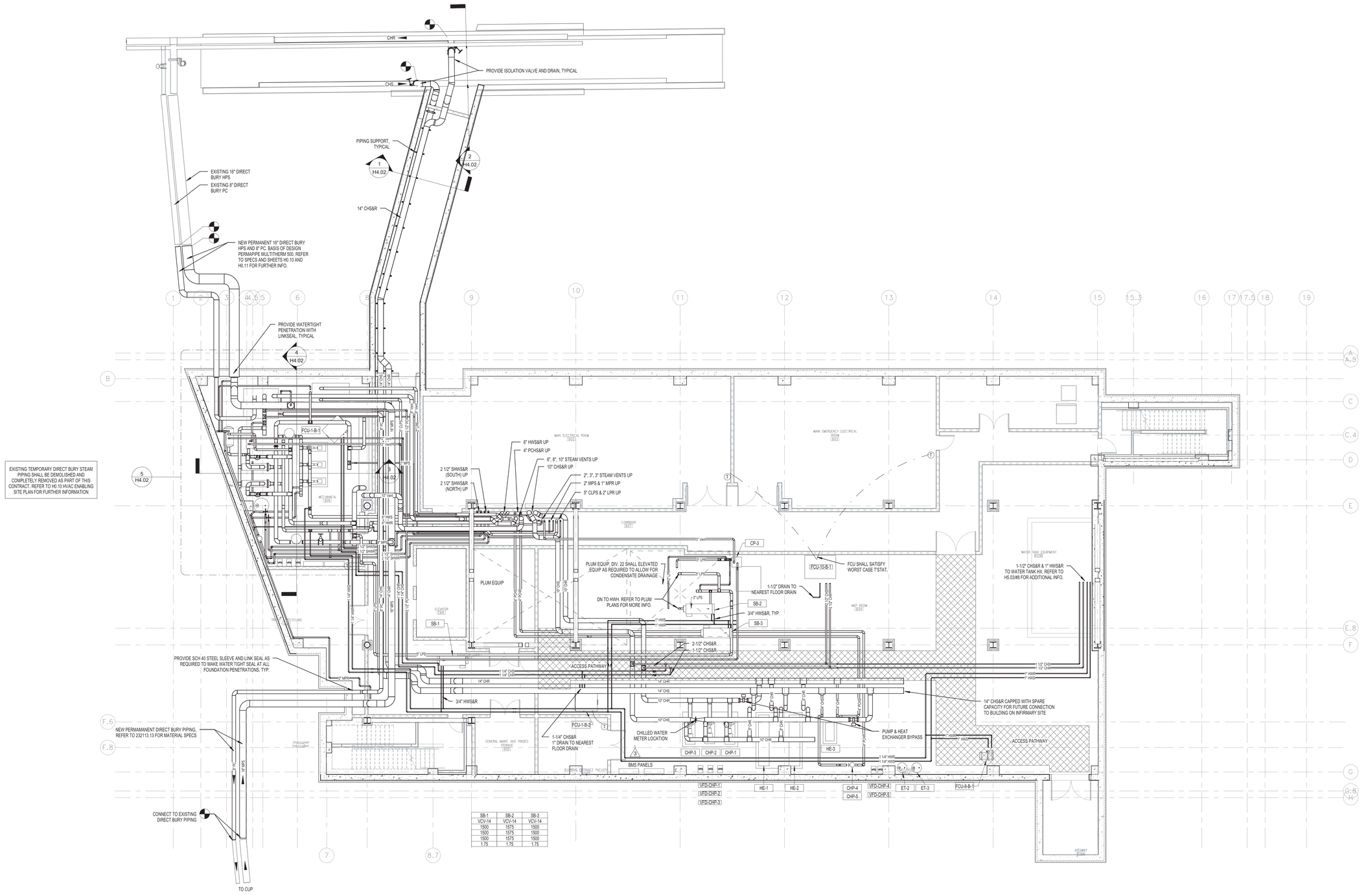
Drawing Title:

ROOF DUCTWORK PLAN

CONFORMED SET: 05/29/2015

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

H1.07



SB-1	SB-2	SB-3
VCV-14	VCV-14	VCV-14
1500	1575	1500
1500	1575	1500
1500	1575	1500
1.75	1.75	1.75

01 BASEMENT PIPING PLAN
1/8" = 1'-0"

UNIVERSITY OF CONNECTICUT

ARCHITECT:
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LANDSCAPE ARCHITECTS:
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203 857 0200

ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	03/20/2015	ADDENDUM 1
2	04/20/2015	ADDENDUM 3
3	05/08/2015	ADDENDUM 6

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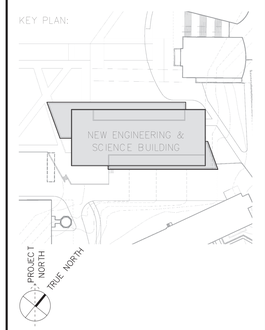
KEY PLAN:



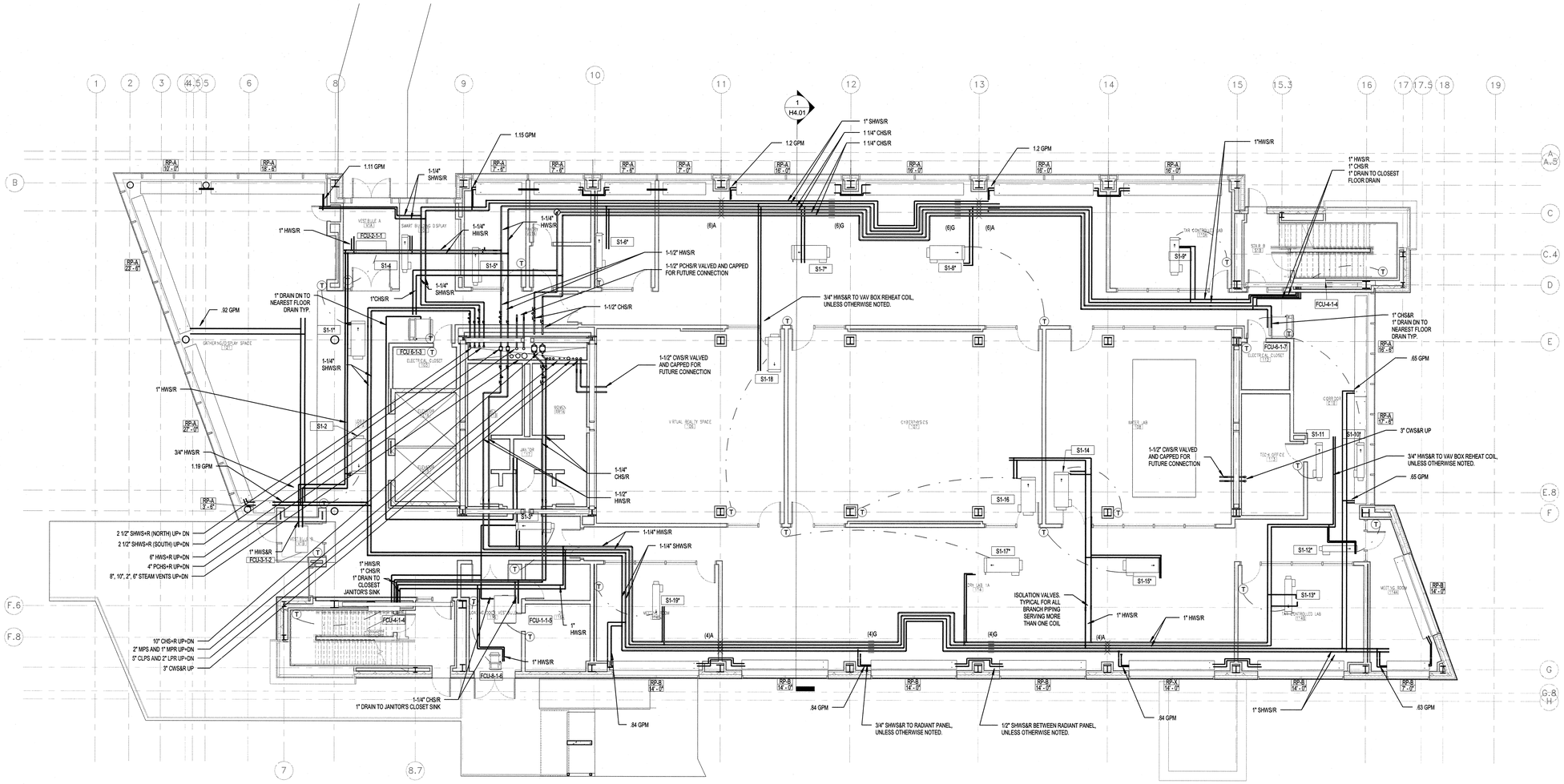
PROJECT:
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:
BASEMENT PIPING PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

H2.00

CONFORMED SET: 05/29/2015



VAV TAG	S1-1*	S1-2	S1-3*	S1-4	S1-5*	S1-6*	S1-7*	S1-8*	S1-9*	S1-10*	S1-11	S1-12*	S1-13*	S1-14	S1-15*	S1-16	S1-17*	S1-18	S1-19*
TYPE	VCV-16	VCV-16	VCV-10	VCV-8	VCV-8	VCV-8	VCV-16	VCV-16	VCV-10	VCV-10	VCV-5	VCV-8	VCV-10	VCV-16	VCV-16	VCV-16	VCV-16	VCV-14	VCV-10
MAX CFM	2150	1725	800	550	500	325	1800	1800	900	775	125	450	725	1700	1800	2250	1800	1500	725
MIN CFM	1075	863	800	550	250	163	900	900	450	388	63	225	363	1700	900	1125	900	750	363
HEATING CFM	1075	863	800	550	250	163	900	900	450	388	63	225	363	1700	900	1125	900	750	363
REHEAT GPM	2.00	1.75	1.50	1.00	0.50	0.50	1.75	1.75	1.00	0.75	0.50	0.50	0.75	2.00	1.75	1.25	1.75	1.00	0.75

* EXTERIOR ZONE, REFER TO H0.02 AIR TERMINAL BOX SCHEDULE FOR FURTHER INFO.

01 FIRST FLOOR PIPING PLAN
1/8" = 1'-0"

UNIVERSITY OF CONNECTICUT

ARCHITECT:
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ISSUE/REVISION:

NO.	DATE	COMMENTS

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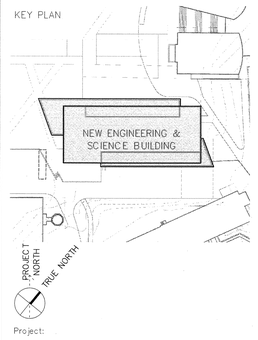
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

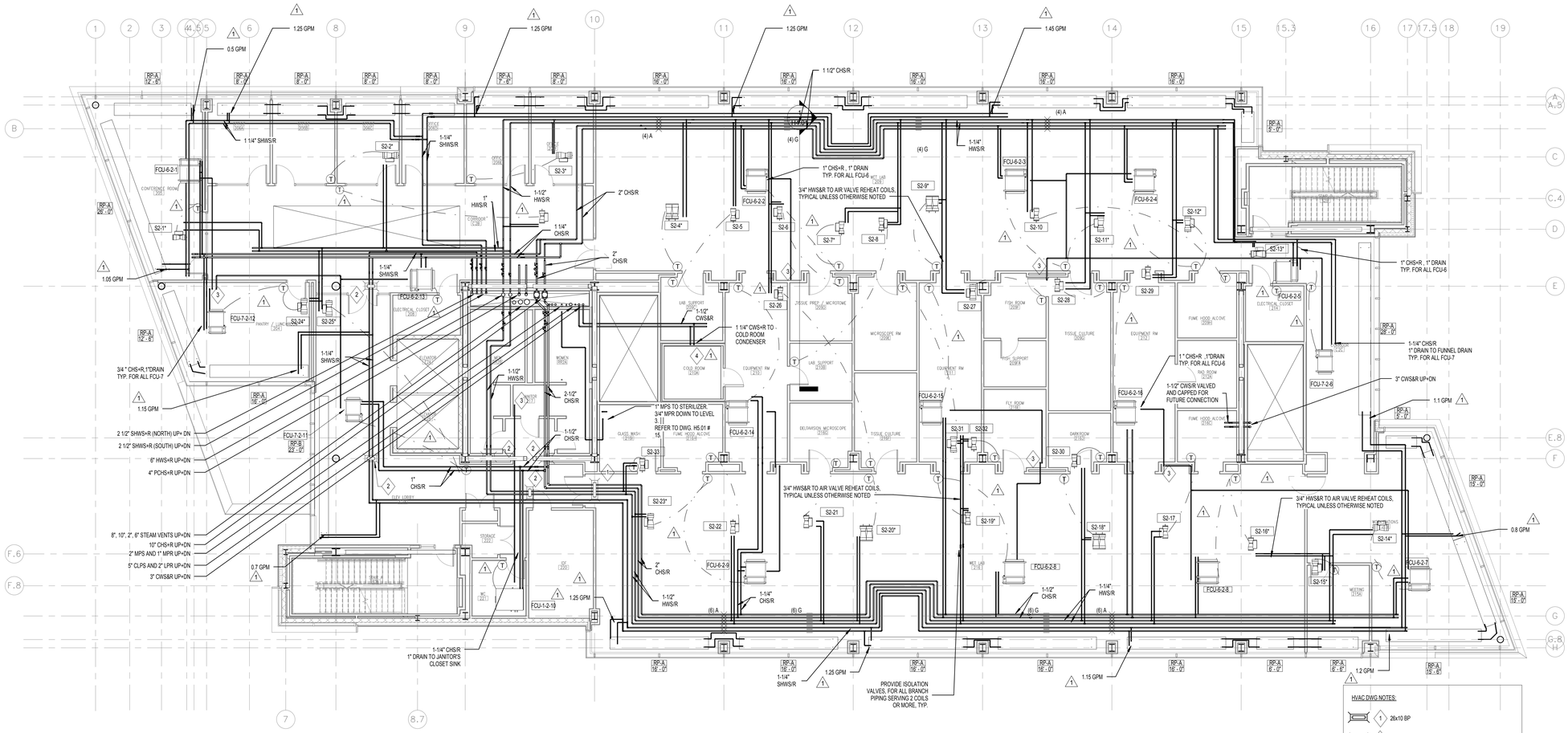
Drawing Title:

FIRST FLOOR PIPING PLAN

CONFORMED SET 05/29/2015

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

H2.01



SV TAG	S2-1*	S2-2*	S2-3*	S2-4*	S2-5	S2-6	S2-7*	S2-8	S2-9*	S2-10	S2-11*	S2-12*	S2-13*	S2-14*	S2-15*	S2-16*	S2-17	S2-18*	S2-19*	S2-20*	S2-21	S2-22	S2-23*	S2-24*	S2-25*	S2-26	S2-27	S2-28	S2-29	S2-30	S2-31	S2-32	S2-33	S2-34
TYPE	SV-1	SV-2	SV-2	SV-3	SV-1	SV-1	SV-1	SV-1	SV-3	SV-1	SV-1	SV-1	SV-1	SV-2	SV-2	SV-1	SV-3	SV-1	SV-3	SV-3	SV-1	SV-1	SV-1	SV-1	SV-1	SV-1	SV-1	SV-1	SV-1	SV-1	SV-1	SV-1	SV-1	SV-1
MAX CFM	400	1050	1050	1350	325	175	350	200	1350	310	450	450	475	1025	575	475	210	1500	450	1500	200	210	950	675	950	275	350	375	200	200	350	250	400	500
MIN CFM	200	525	525	675	163	125	350	100	675	310	450	450	475	513	288	475	210	750	450	750	150	210	950	338	725	150	175	150	100	100	350	125	200	250
HEATING CFM	200	525	525	675	163	125	350	100	675	310	450	450	475	513	288	475	210	750	450	750	150	210	950	338	725	150	175	150	100	100	350	125	200	250
REHEAT GPM	0.50	1.00	1.00	1.25	0.50	0.50	0.75	0.50	1.25	0.50	1.00	1.00	1.00	1.00	0.75	1.00	0.50	1.50	1.00	1.50	0.50	0.50	1.75	0.75	1.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50

* EXTERIOR ZONE, REFER TO H0.02 AIR TERMINAL BOX SCHEDULE FOR FURTHER INFO.

01 SECOND FLOOR PIPING PLAN
1/8" = 1'-0"

UNIVERSITY OF CONNECTICUT

ARCHITECT:
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STRUCTURAL ENGINEER:
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203 857 0200

ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	03/26/2015	ADDENDUM 1

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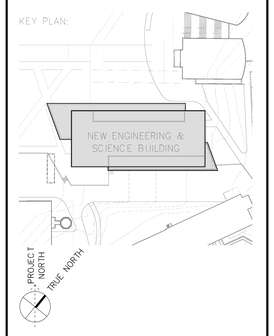
KEY PLAN:



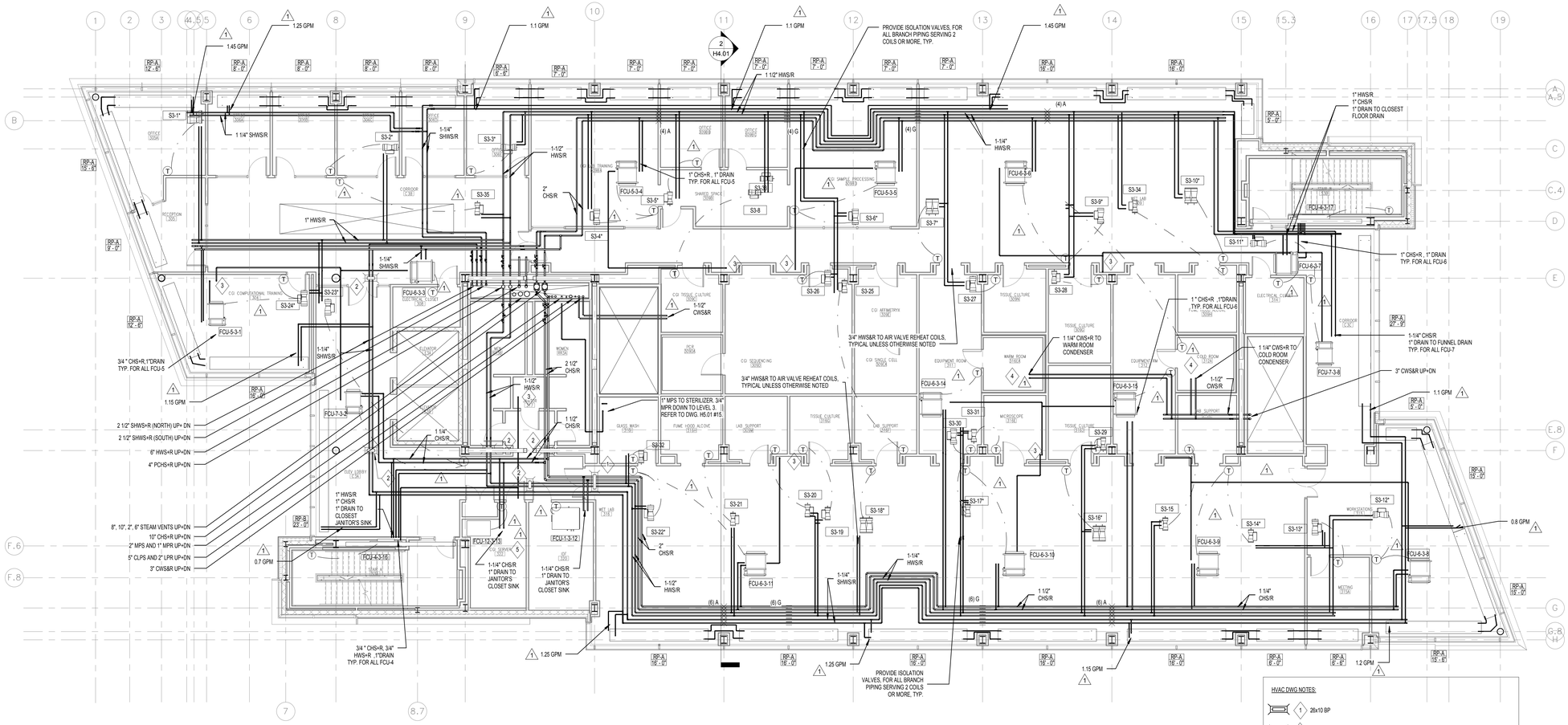
PROJECT:
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:
SECOND FLOOR PIPING PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

H2.02

CONFORMED SET: 05/29/2015



SV TAG	S3-1*	S3-2*	S3-3*	S3-4*	S3-5*	S3-6*	S3-7*	S3-8	S3-9*	S3-10*	S3-11*	S3-12*	S3-13*	S3-14*	S3-15	S3-16*	S3-17*	S3-18*	S3-19	S3-20	S3-21	S3-22*	S3-23*	S3-24*	S3-25	S3-26	S3-27	S3-28	S3-29	S3-30	S3-31	S3-32	S3-33	S3-34	S3-35
TYPE	SV-3	SV-2	SV-2	SV-2	SV-2	SV-2	SV-2	SV-1	SV-1	SV-3	SV-1	SV-2	SV-2	SV-1	SV-1	SV-3	SV-1	SV-3	SV-1	SV-1	SV-1	SV-2	SV-2	SV-2	SV-1	SV-2	SV-1	SV-1	SV-1	SV-1	SV-1	SV-1	SV-1	SV-1	SV-1
MAX CFM	1800	1050	700	625	800	625	850	200	450	1350	475	1025	575	400	225	1675	400	1700	175	175	210	960	700	675	200	700	175	275	275	475	200	400	375	310	500
MIN CFM	900	525	350	625	400	625	425	100	450	675	475	513	288	400	113	750	400	750	150	88	210	475	700	338	100	350	150	150	150	475	150	100	375	310	250
HEATING CFM	900	525	350	625	400	625	425	100	450	675	475	513	288	400	113	750	400	750	150	88	210	475	700	338	100	350	150	150	150	475	150	100	375	310	250
REHEAT GPM	1.75	1.00	0.75	1.25	0.75	1.25	1.00	0.50	1.00	1.25	1.00	1.00	0.75	0.75	0.50	1.50	0.75	1.50	0.50	0.50	0.50	1.00	1.50	0.75	0.50	0.50	0.50	0.50	0.50	0.75	0.50	0.50	0.50	0.50	0.50

* EXTERIOR ZONE. REFER TO H0.02 AIR TERMINAL BOX SCHEDULE FOR FURTHER INFO.

HVAC DWG NOTES:

1. 26x10 BP
2. 14x10 BP
3. CONDENSATE DRAIN DN TO FUNNEL DRAIN
4. ALTERNATE #4 - CAP 1-1/4" CWS+R AT FUTURE LOCATION OF ENVIRONMENTAL ROOM
5. ALTERNATE #8 - ROOM 322 OFFICE PLAN.
   - DELETE FCU-12-3-13 AND ASSOCIATED PIPING AND DUCTWORK.
   - ADD 9x6-E-150 SUPPLY DIFFUSER AND 8x8-F-150 EXHAUST DIFFUSER.
   - ADD 10x6 SUPPLY BRANCH DUCT FOM ZONE S3-23 (20 FT), ADD 10x6 EXHAUST DUCT FROM TOILET EXHAUST SYSTEM (40 FT). ACCOUNT FOR (6) ELBOWS.
   - LOCATE ZONE S3-23 THERMOSTAT IN OFFICE 322.

01 THIRD FLOOR PIPING PLAN
1/8" = 1'-0"

UNIVERSITY OF CONNECTICUT

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ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	05/26/2015	ADDENDUM 1

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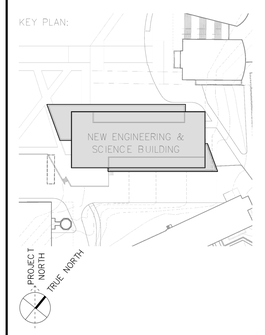
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

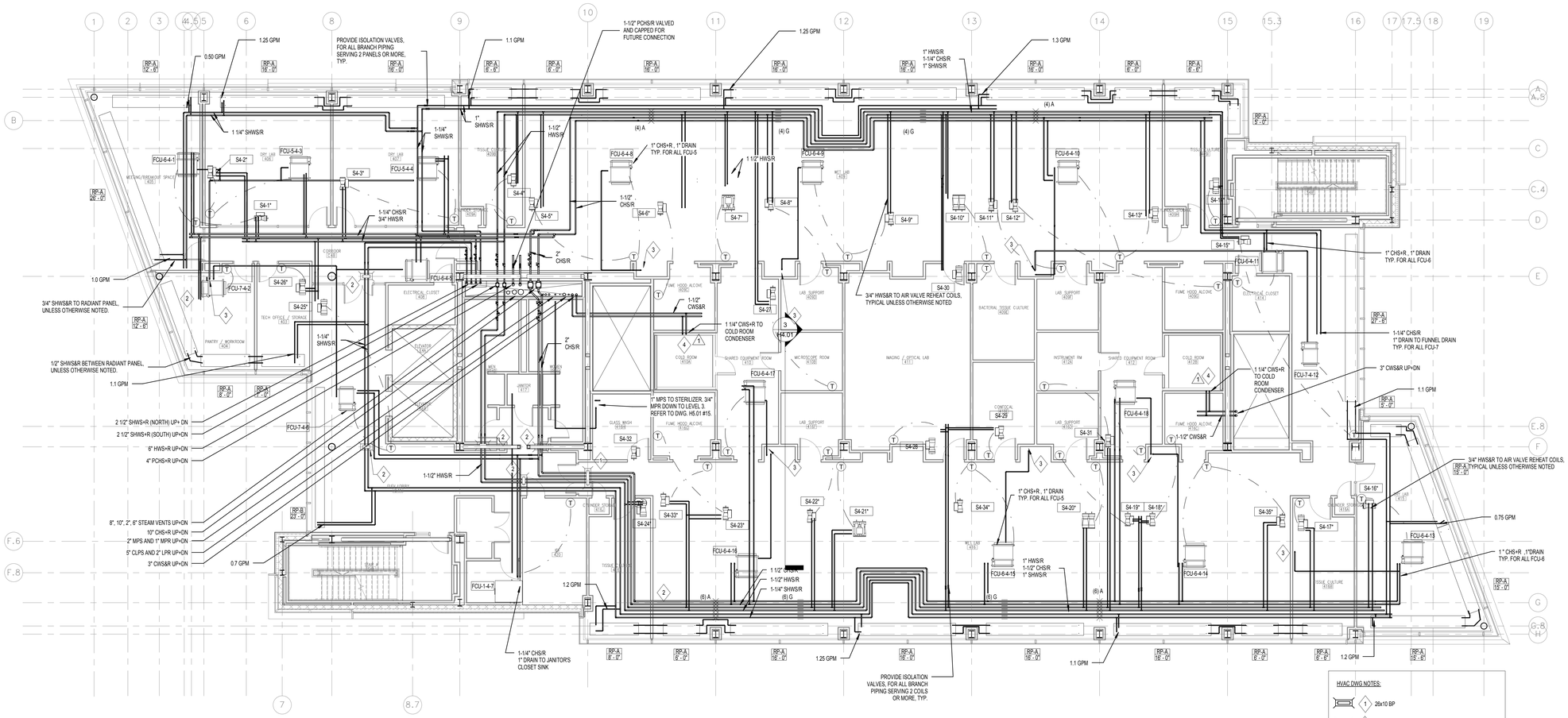
DRAWING TITLE:

THIRD FLOOR PIPING PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

H2.03

CONFORMED SET: 05/29/2015



SV TAG	S4-1*	S4-2*	S4-3*	S4-4*	S4-5*	S4-6*	S4-7*	S4-8*	S4-9*	S4-10*	S4-11*	S4-12*	S4-13*	S4-14*	S4-15*	S4-16*	S4-17*	S4-18*	S4-19*	S4-20*	S4-21*	S4-22*	S4-23*	S4-24*	S4-25*	S4-26*	S4-27	S4-28	S4-29	S4-30	S4-31	S4-32	S4-33*	S4-34*	S4-35*
TYPE	SV-1	SV-1	SV-1	SV-2	SV-1	SV-1	SV-3	SV-1	SV-1	SV-3	SV-1	SV-1	SV-1	SV-2	SV-1	SV-1	SV-2	SV-1	SV-1	SV-3	SV-3	SV-1	SV-1	SV-2	SV-1	SV-2	SV-2	SV-1	SV-2	SV-1	SV-1	SV-1	SV-2	SV-2	SV-2
MAX CFM	400	500	500	600	475	310	1425	250	475	1425	250	310	475	600	500	550	675	210	250	1425	1425	250	600	200	850	625	250	1000	375	275	250	400	600	600	600
MIN CFM	200	250	250	300	475	310	713	125	475	713	125	310	475	300	500	275	338	210	125	713	713	125	300	210	950	313	125	500	188	138	125	200	600	600	600
HEATING CFM	200	250	250	300	475	310	713	125	475	713	125	310	475	300	500	275	338	210	125	713	713	125	300	210	950	313	125	500	188	138	125	200	600	600	600
REHEAT GPM	0.50	0.50	0.50	0.50	0.75	0.50	1.00	0.50	0.75	1.00	0.50	0.50	0.75	0.50	0.75	0.50	0.50	0.50	0.50	1.00	1.00	0.50	0.50	0.50	1.25	0.50	0.50	0.75	0.50	0.50	0.50	0.50	0.75	0.75	0.75

* EXTERIOR ZONE, REFER TO H0.02 AIR TERMINAL BOX SCHEDULE FOR FURTHER INFO.

01 FOURTH FLOOR PIPING PLAN
1/8" = 1'-0"

UNIVERSITY OF CONNECTICUT

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LEED CONSULTANT:
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61 Washington Street
Norwalk, Connecticut 06854
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ISSUE/REVISION:		
NO.	DATE	COMMENTS
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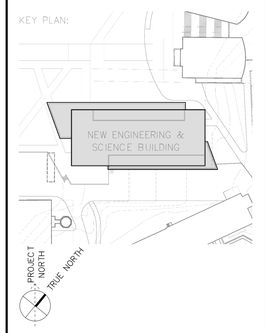
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

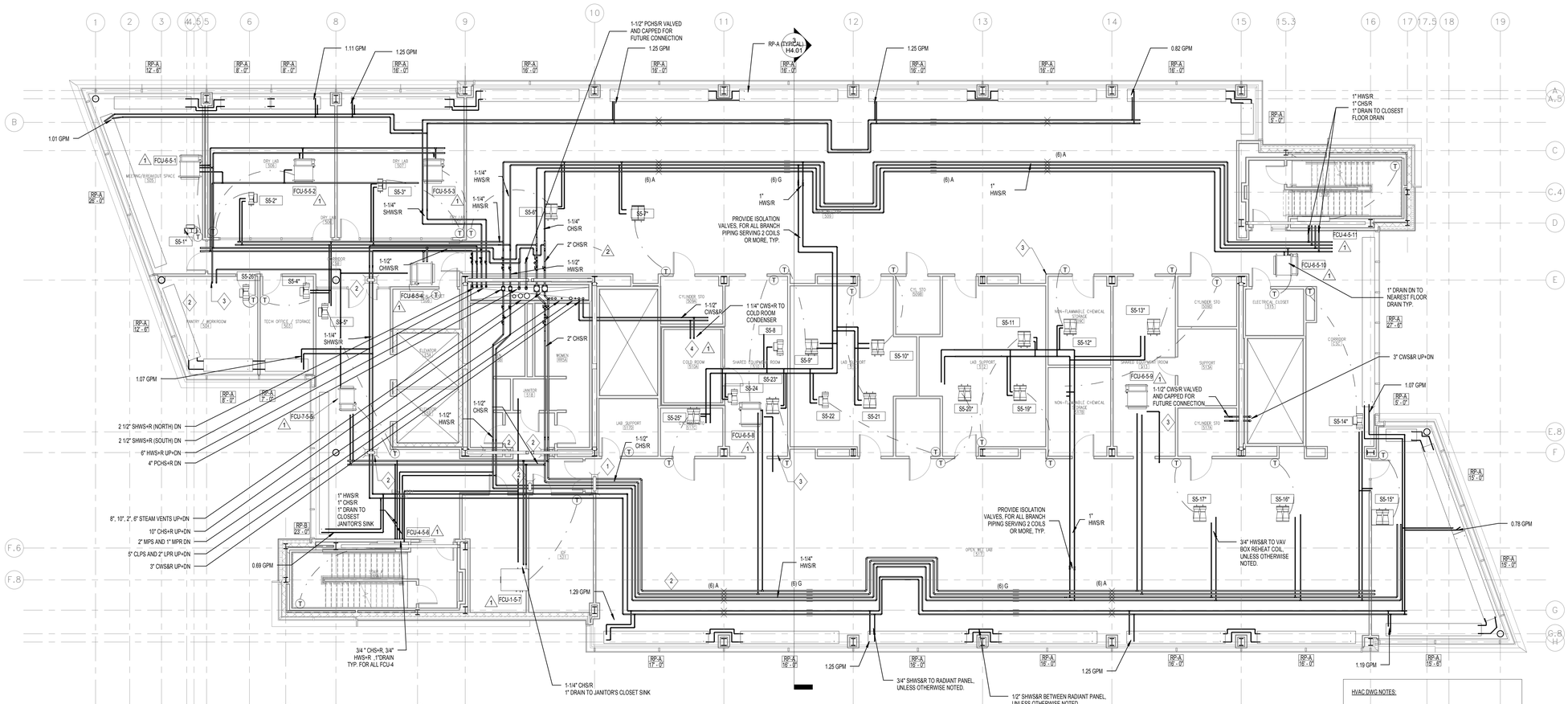
DRAWING TITLE:

FOURTH FLOOR PIPING PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

H2.04

CONFORMED SET: 05/29/2015



SV TAG	SS-1"	SS-2"	SS-3"	SS-4"	SS-5"	SS-6"	SS-7"	SS-8	SS-9"	SS-10"	SS-11	SS-12"	SS-13"	SS-14"	SS-15"	SS-16"	SS-17"	SS-19"	SS-20"	SS-21	SS-22	SS-23"	SS-24	SS-25"	SS-26"
TYPE	SV-1	SV-1	SV-1	SV-1	SV-2	SV-2	SV-2	SV-1	SV-3	SV-3	SV-3	SV-3	SV-3	SV-2	SV-3	SV-3	SV-3	SV-3	SV-3	SV-3	SV-2	SV-3	SV-2	SV-3	SV-2
MAX CFM	400	500	500	375	700	1000	1000	500	1500	1500	1100	1550	1450	1000	2000	1600	1600	1600	1600	1100	800	1600	600	1700	975
MIN CFM	400	500	500	375	900	205	150	500	150	150	550	150	150	1000	2000	275	275	275	275	550	800	275	600	330	488
HEATING CFM	400	500	500	375	900	1500	1500	500	1500	1500	550	1500	1450	1000	2000	1600	1600	1600	1600	550	800	1600	600	1700	488
REHEAT GPM	0.50	0.75	0.75	0.50	1.00	2.75	2.75	0.75	2.75	2.75	0.75	2.75	2.75	1.25	2.25	3.00	3.00	3.00	3.00	0.75	1.00	3.00	0.75	3.25	0.75

* EXTERIOR ZONE, REFER TO H0.02 AIR TERMINAL BOX SCHEDULE FOR FURTHER INFO.

01 FIFTH FLOOR PIPING PLAN
1/8" = 1'-0"

UNIVERSITY OF CONNECTICUT

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ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	05/20/2015	ADDENDUM 4
2	05/08/2015	ADDENDUM 6

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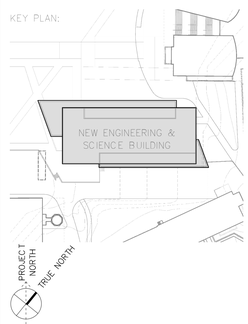
KEY PLAN:



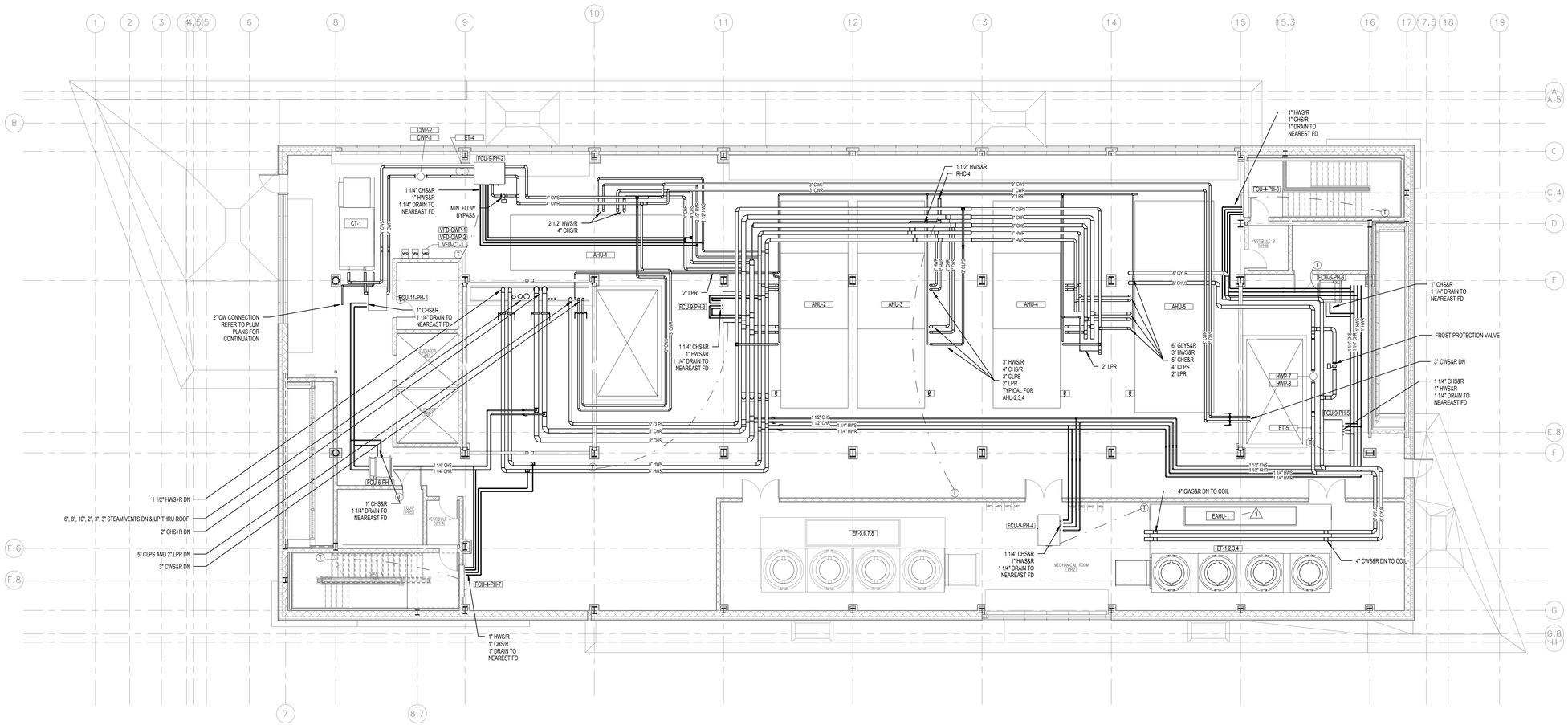
PROJECT:
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:
FIFTH FLOOR PIPING PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

H2.05

CONFORMED SET: 05/29/2015



01 PENTHOUSE PIPING PLAN
1/8" = 1'-0"

UNIVERSITY OF CONNECTICUT

ARCHITECT:
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New York, New York 10016
212 840 0060

STRUCTURAL ENGINEER:
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212 986 3700

SITE/CIVIL ENGINEER:
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860 633 8341

LANDSCAPE ARCHITECTS:
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LEED CONSULTANT:
Steven Winter Associates, Inc.
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1	05/08/2015	ADDENDUM 4

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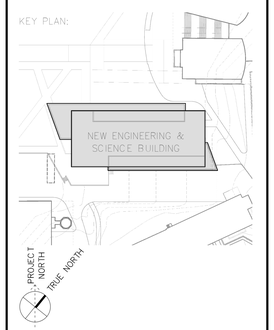
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

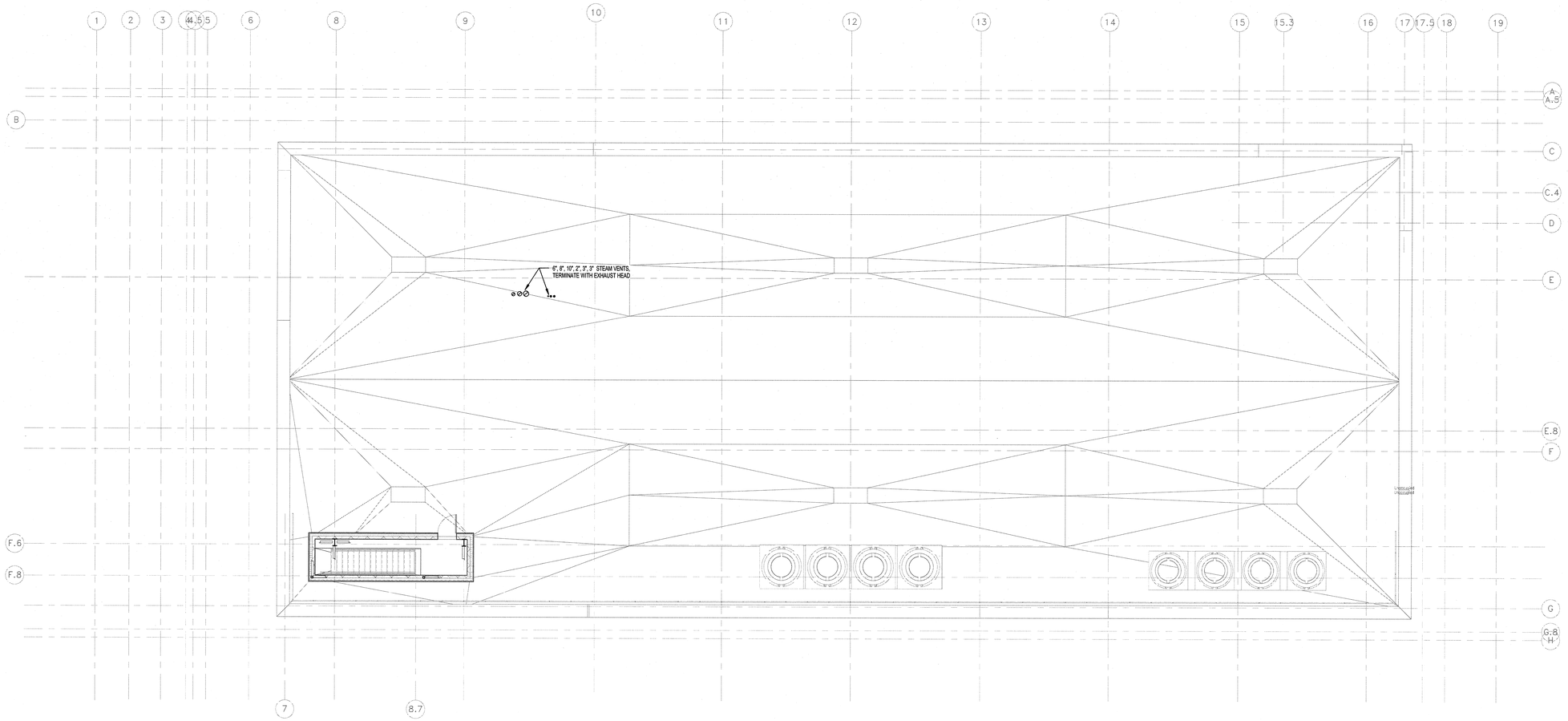
DRAWING TITLE:

PENTHOUSE PIPING PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

H2.06

CONFORMED SET: 05/29/2015



01 ROOF PIPING PLAN
1/8" = 1'-0"

UNIVERSITY OF CONNECTICUT

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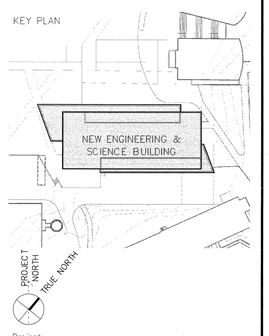
KEY PLAN



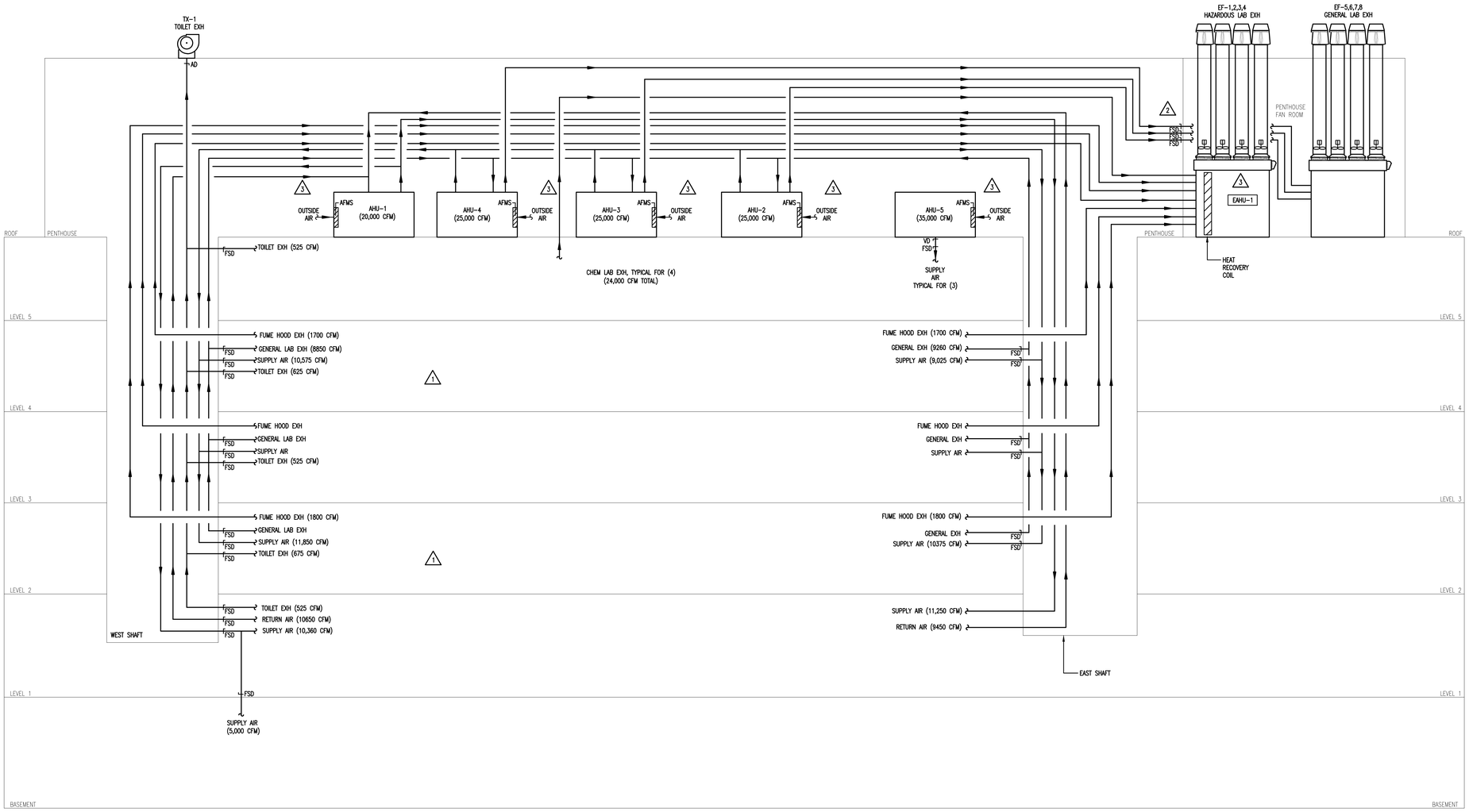
Project:
NEW ENGINEERING AND SCIENCE BUILDING

Drawing Title:
ROOF PIPING PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

CONFORMED SET 05/29/2015

H2.07



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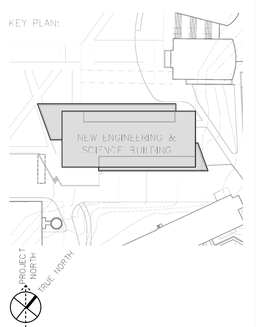
1	04/20/2015	ADDENDUM 1
2	04/29/2015	ADDENDUM 3
3	05/08/2015	ADDENDUM 6

KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

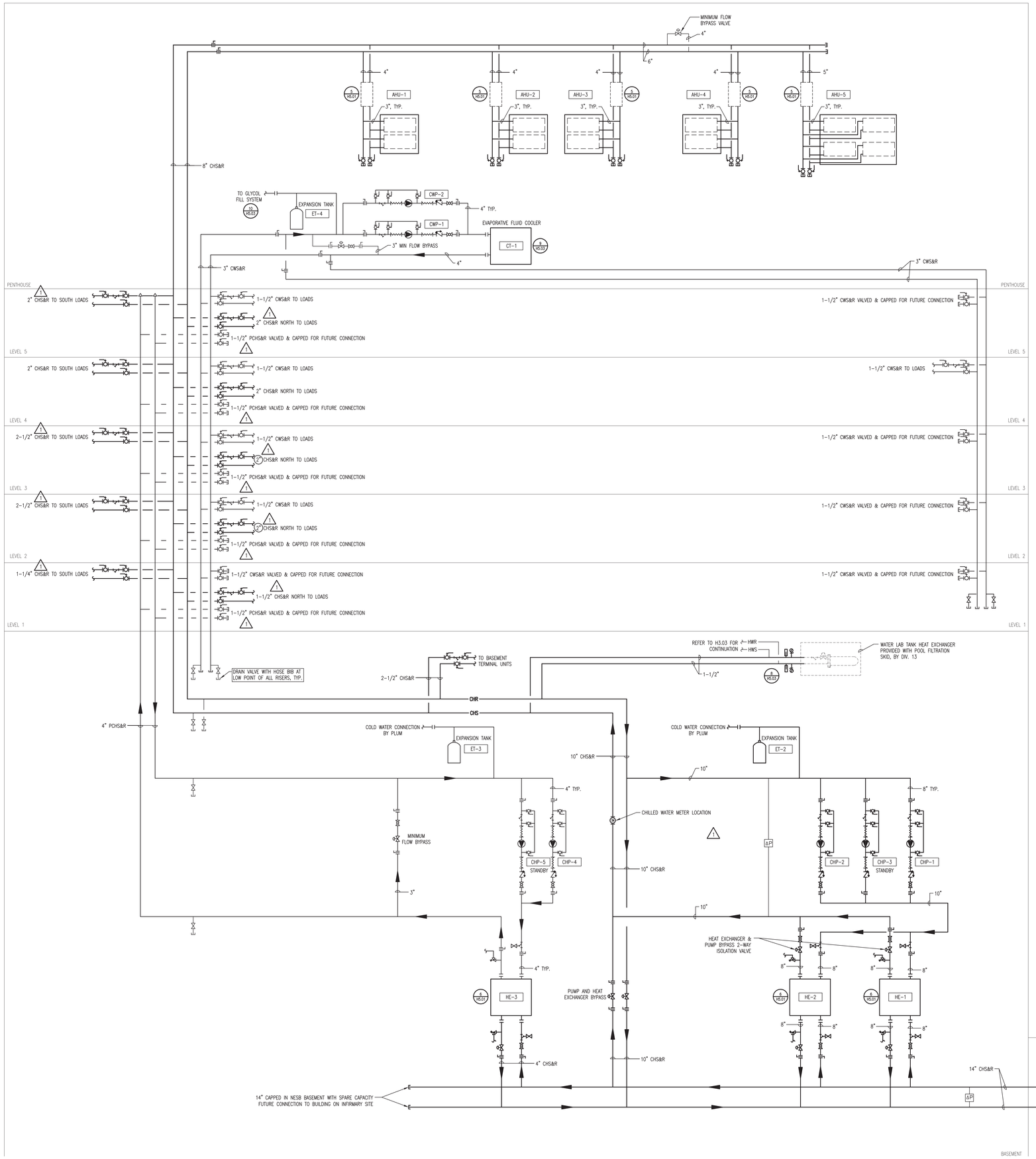
DRAWING TITLE:

HVAC
AIRFLOW DIAGRAM

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: N.T.S.

H3.00

CONFORMED SET: 05/29/2015



J:\JOBS\2946000.KB\HVAC\H3.01 CHILLED WATER DIAGRAM.DWG 05-08-2015 15:42:19 - cdd

UNIVERSITY OF CONNECTICUT

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ISSUES/REVISION:		
NO.	DATE	COMMENTS
1	03/09/2015	ADDENDUM 6

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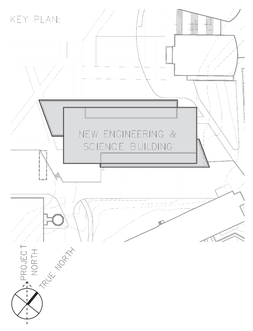
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

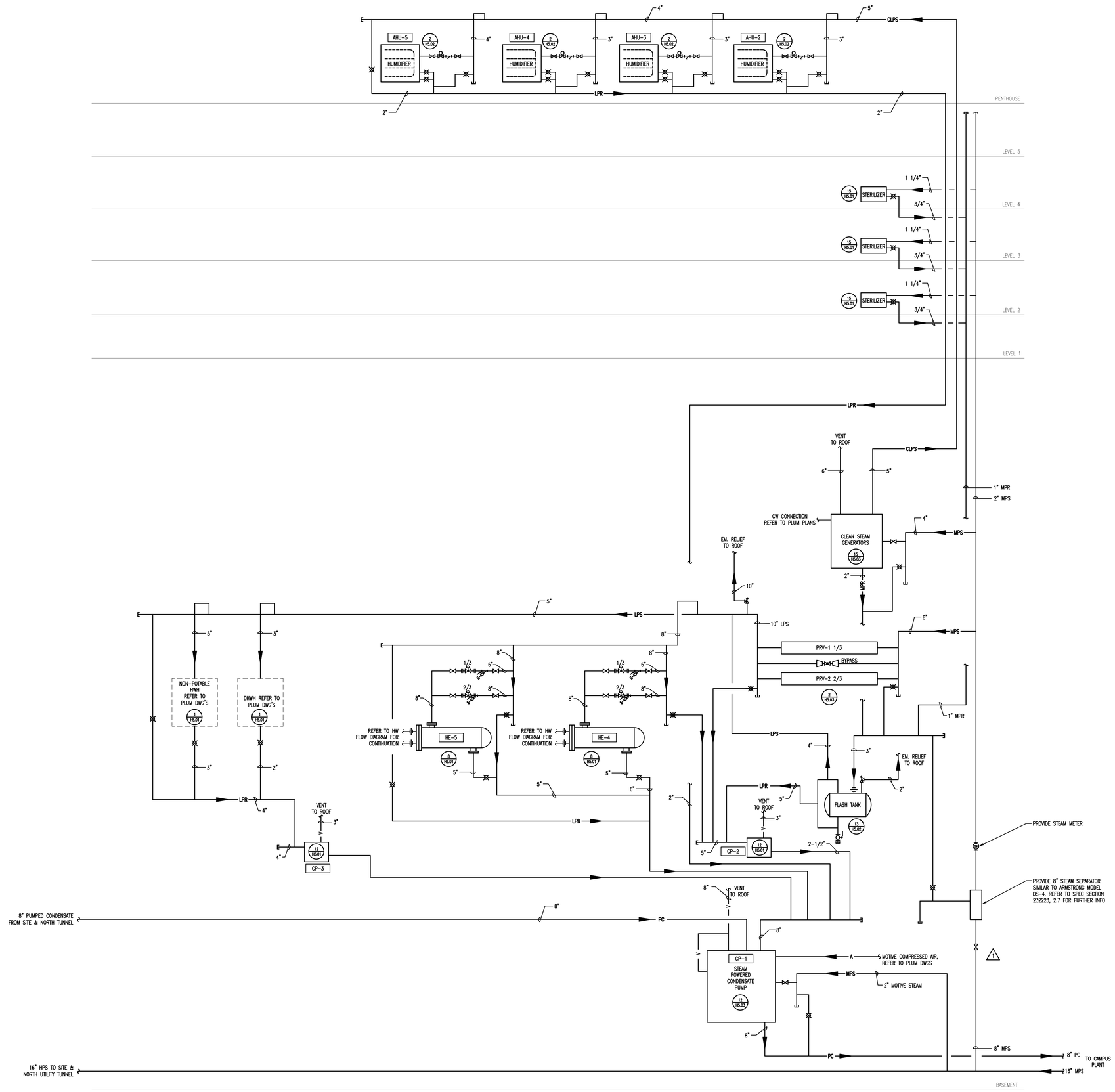
DRAWING TITLE:

HVAC
CHILLED WATER
FLOW DIAGRAM

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: N.T.S.

H3.01

CONFORMED SET: 05/29/2015



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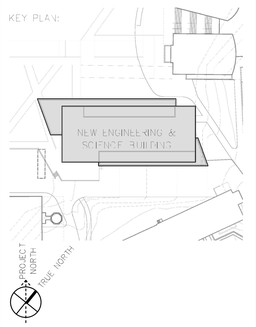
ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	05/29/2015	ADDENDUM 1

KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

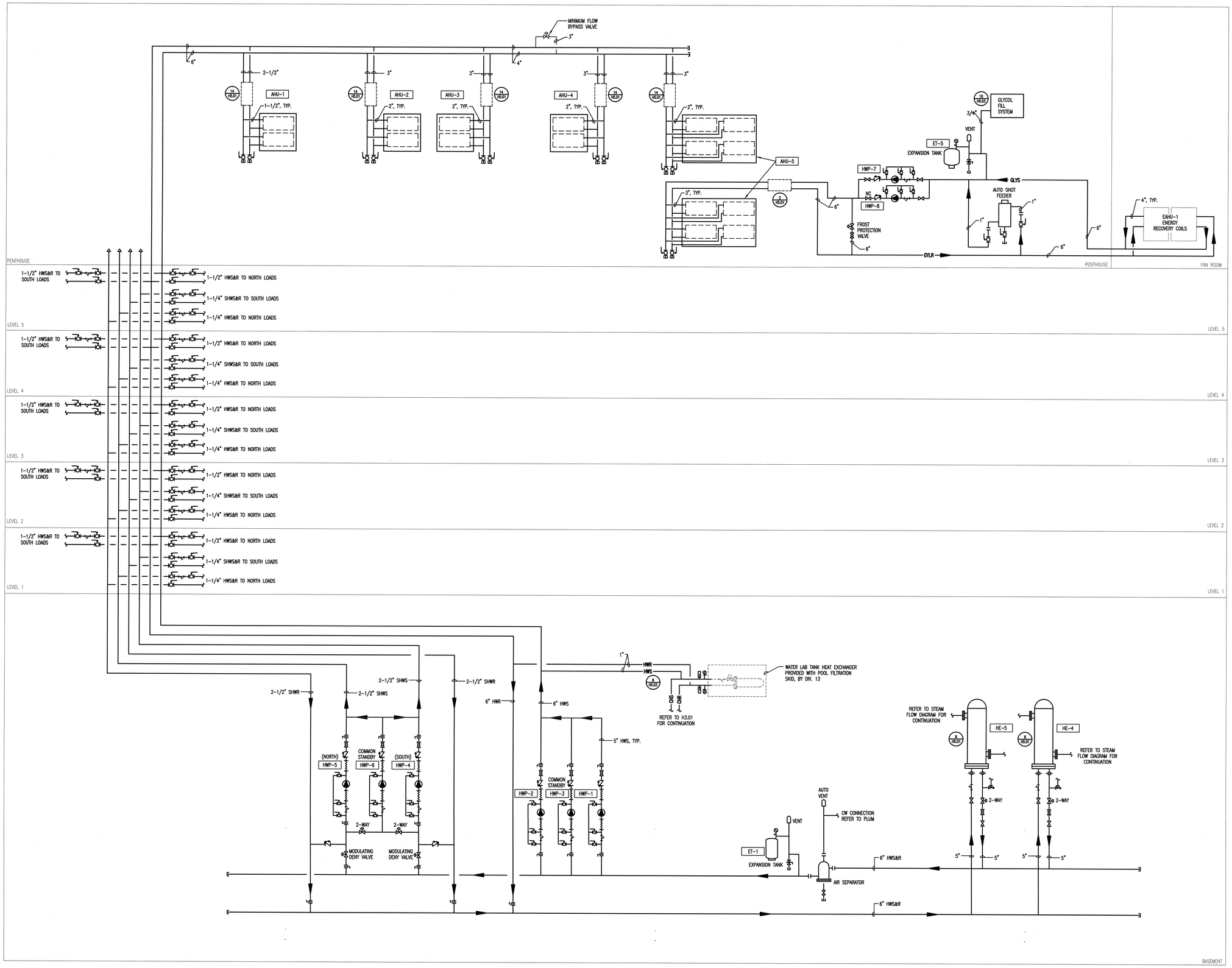
DRAWING TITLE:

HVAC
STEAM
FLOW DIAGRAM

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: N.T.S.

H3.02

CONFORMED SET: 05/29/2015



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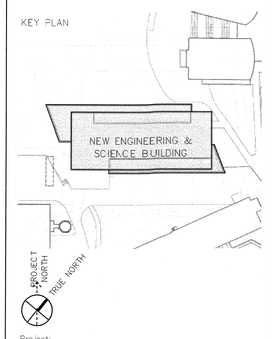
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

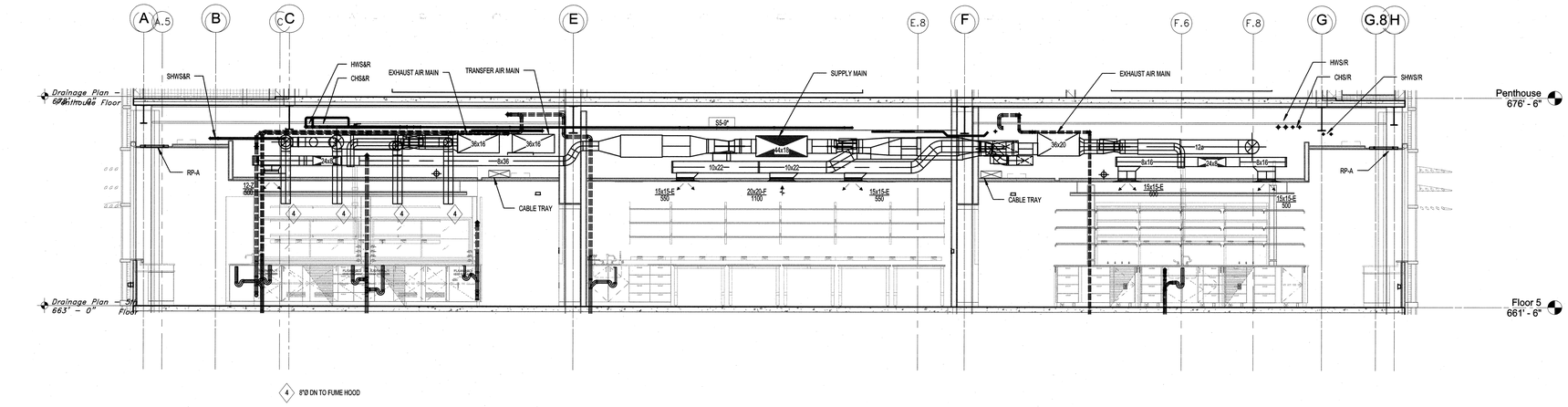
Drawing Title:

HVAC
HOT WATER
FLOW DIAGRAM

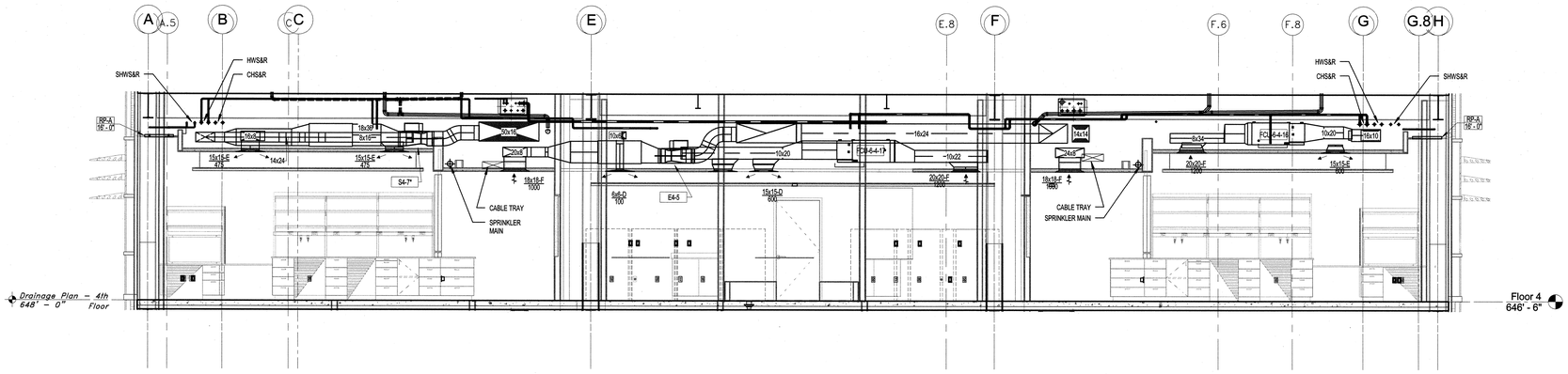
CONFORMED SET: 04/24/2015

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: N.T.S.

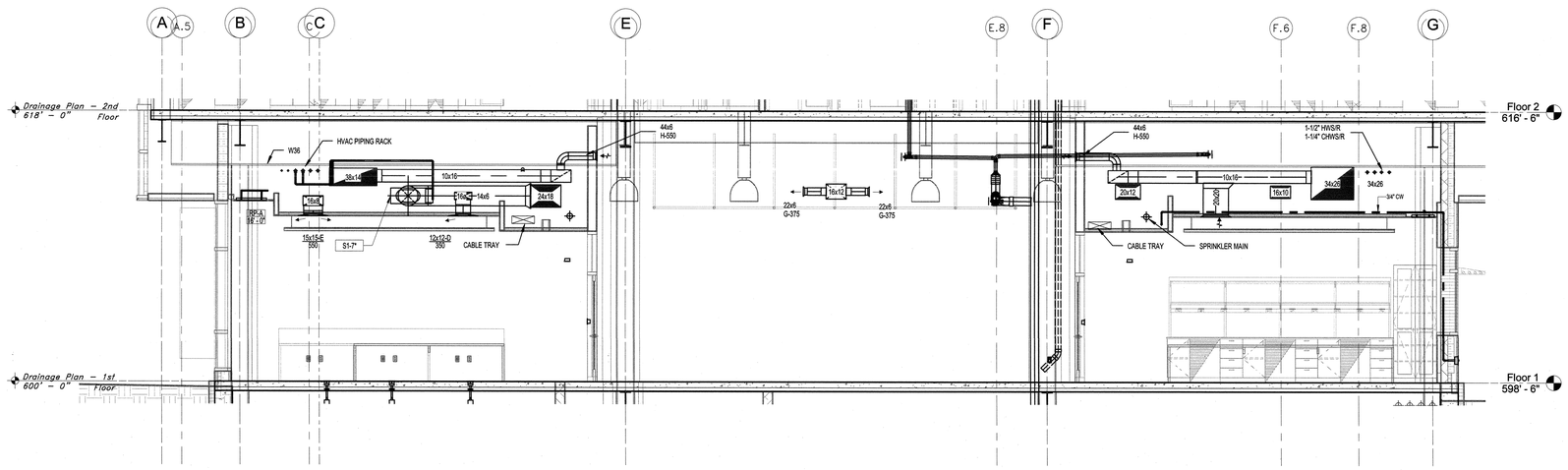
H3.03



3 FIFTH FLOOR SECTION
1/4" = 1'-0"



2 FOURTH FLOOR SECTION
1/4" = 1'-0"



1 FIRST FLOOR SECTION
1/4" = 1'-0"

UNIVERSITY OF CONNECTICUT

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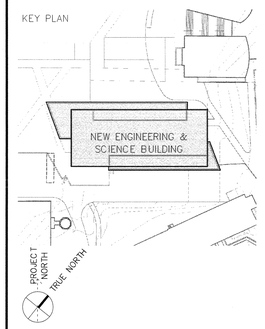
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

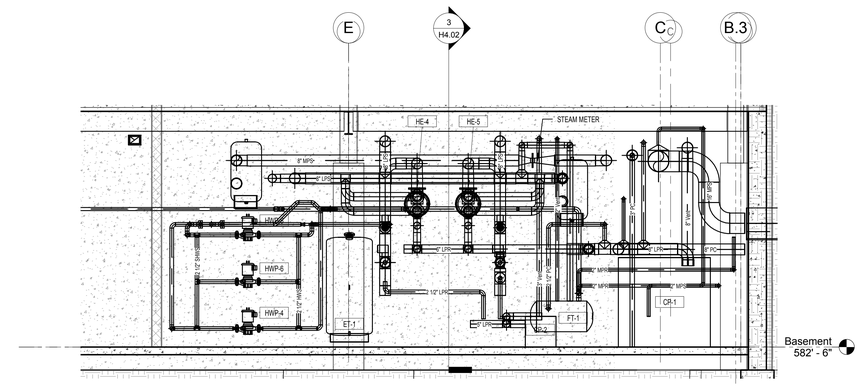
Drawing Title:

HVAC SECTIONS

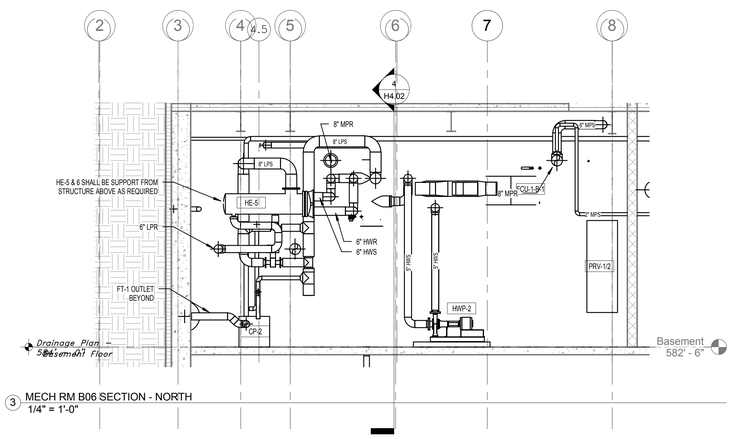
CONFORMED SET: 05/29/2015

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/4" = 1'-0"

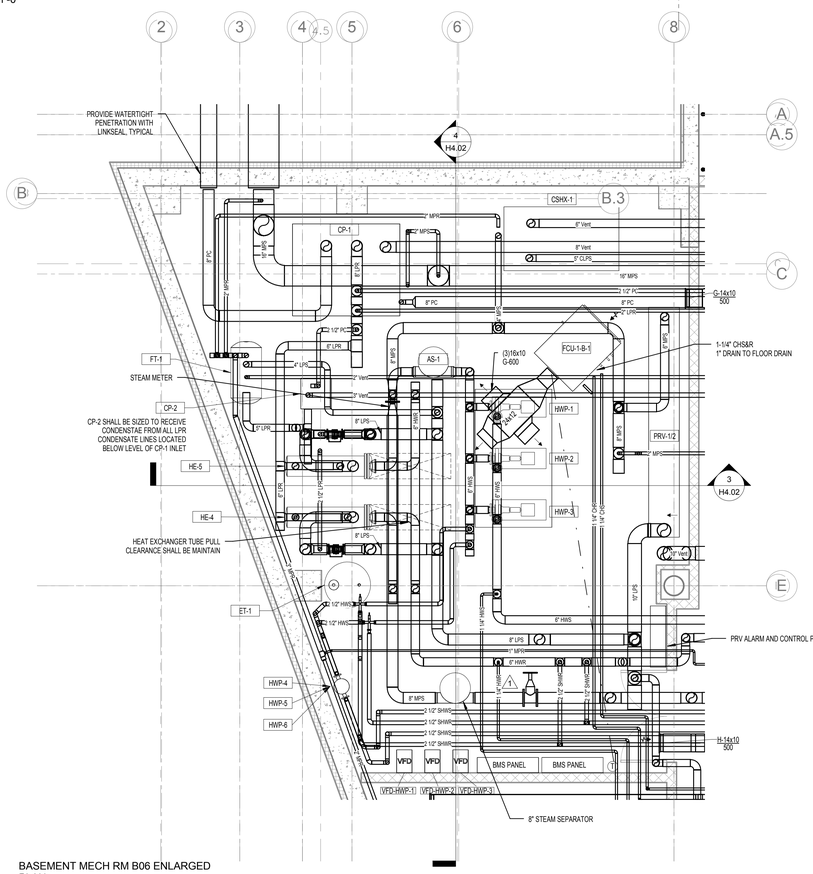
H4.01



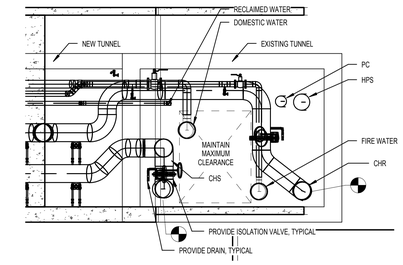
4 MECH RM B06 SECTION - WEST
1/4" = 1'-0"



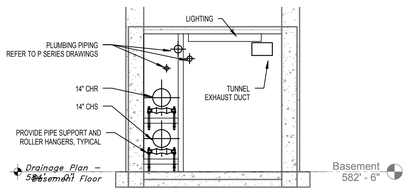
3 MECH RM B06 SECTION - NORTH
1/4" = 1'-0"



5 BASEMENT MECH RM B06 ENLARGED PLAN
1/4" = 1'-0"



2 EXISTING TUNNEL, NEW PIPING TIE-IN
1/4" = 1'-0"



1 NEW TUNNEL SECTION
1/4" = 1'-0"

UNIVERSITY OF CONNECTICUT

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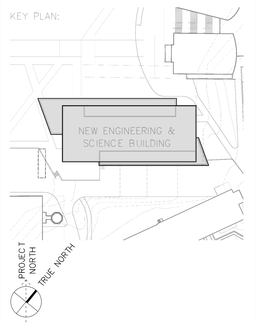


PROJECT:
NEW ENGINEERING AND SCIENCE BUILDING

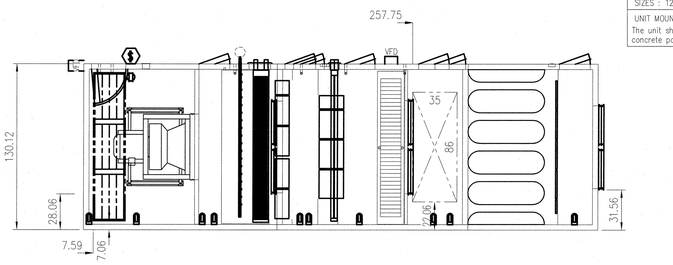
DRAWING TITLE:
HVAC BASEMENT ENLARGED PLANS AND SECTIONS

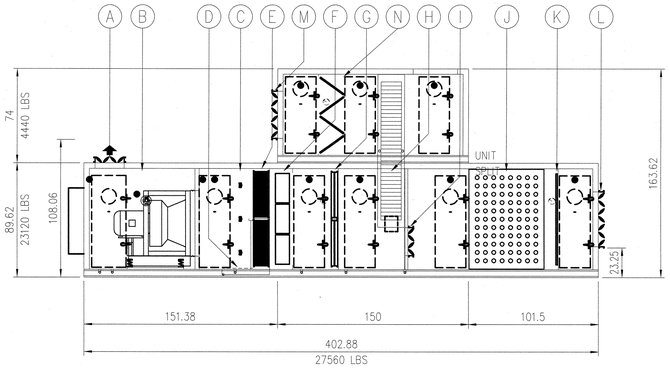
CONFORMED SET: 05/29/2015

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/4" = 1'-0"

H4.02

PLAN VIEW





AHU-2,3,4 SECTION VIEW

(N) FILTERS : LIFT-OUT UPSTREAM
VELOCITY : 446 FPM
TYPE : 2" (MERV 8) Farr 30/30
SIZES : 12 @ 24 X 24 4 @ 24 X 12

UNIT MOUNTING
The unit shall be designed to be mounted on a concrete pad.

(A) SUPPLY DISCH DAMPER : OPPOSED BLADES
MAKE : T.A. Morrison 1000
SIZE : 116 X 25

(B) FAN : (SF) 36" EPFN SW, 90% Width, Arrangement-4
AIR FLOW : 25000 CFM RPM : 1418
T.S.P. : 7 in wc CLASS : III
MOTOR : 50 HP, TEFC Prem-Eff, 460/3/60
RPM : 1150 (GROUNDED SHAFT)
ISOLATORS : OS DEF : 2 in
(Concrete Inertia Base – Concrete by AHU mfg)
FEG85 η_{ps}: 80% η_t / η_{ps} : 93%

(C) HUMIDIFIER
CONN : Left side

(D) SS GRATING OVER DRAIN PAN

(E) COOLING COIL
TYPE : 8 ROW
SIZES : 2 @ 36 X 112
CONN : LEFT PULL : LEFT
DRAIN : LEFT VEL : 447 FPM

(F) FILTERS : LIFT-OUT UPSTREAM
VELOCITY : 463 FPM
TYPE : 12" (MERV 14) Farr Durafil 2V 90-95%
SIZES : 12 @ 24 X 24 3 @ 24 X 12

(G) PRE-HEATING COIL
TYPE : 1 ROW
SIZES : 2 @ 36 X 112
CONN : LEFT PULL : LEFT
VEL : 447 FPM

(H) HEAT WHEEL
TYPE: SO AMERICA HPC-2750T20
VOLTAGE : 460/3/60
VARIABLE SPEED
MOTOR : 1 HP

(I) BYPASS DAMPER : OPPOSED BLADES
MAKE : T.A. Morrison 1000
SIZE : 75 X 24

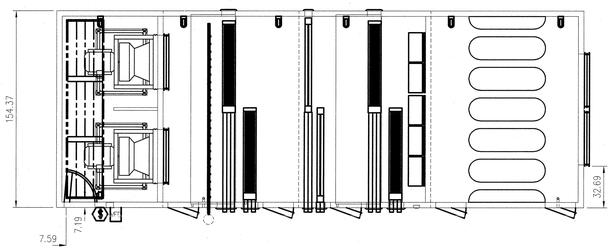
(J) SOUND ATTENUATOR
LENGTH : 60 FREE AREA (%) : 25

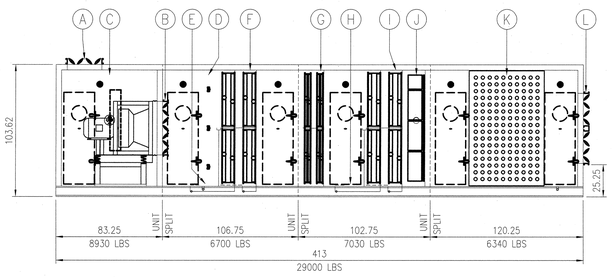
(K) FILTERS : LIFT-OUT UPSTREAM
VELOCITY : 480 FPM
TYPE : 2" (MERV 8) Farr 30/30
SIZES : 3 @ 24 X 12 12 @ 24 X 24

(L) OA DAMPER : OPPOSED BLADES
MAKE : T.A. Morrison 1000
SIZE : 67 X 45

(M) RA INLET DAMPER : OPPOSED BLADES
MAKE : T.A. Morrison 1000
SIZE : 74 X 39

PLAN VIEW





AHU-5 SECTION VIEW

(A) SA DAMPER : OPPOSED BLADES
MAKE : T.A. Morrison 1000
SIZE : 140 X 29

(B) FAN INLET DAMPER : OPPOSED BLADES
MAKE : T.A. Morrison 1000
SIZE : 2 @ 44 X 44

(C) FAN : (SF) 2 @ 30" EPFN SW, Arrangement-4
AIR FLOW : 17500 CFM RPM : 1635
T.S.P. : 6 in wc CLASS : II
MOTOR : 30 HP, TEFC Prem-Eff, 460/3/60
RPM : 1750 (GROUNDED SHAFT)
ISOLATORS : OS DEF : 2 in
(Concrete Inertia Base – Concrete by AHU mfg)
FEG80 η_{ps}: 78% η_t / η_{ps} : 93%

(D) HUMIDIFIER

(E) SS GRATING OVER DRAIN PAN

(F) COOLING COIL
TYPE : 6 ROW
SIZES : 4 @ 42 X 64
CONN : RIGHT PULL : RIGHT
DRAIN : RIGHT VEL : 469 FPM

(G) HEATING COIL
TYPE : 1 ROW
SIZES : 4 @ 42 X 64
CONN : RIGHT PULL : RIGHT
VEL : 469 FPM

(H) SS GRATING OVER DRAIN PAN

(I) HEAT RECOVERY COIL
TYPE : 6 ROW
SIZES : 4 @ 42 X 64
CONN : RIGHT PULL : RIGHT
DRAIN : RIGHT VEL : 469 FPM

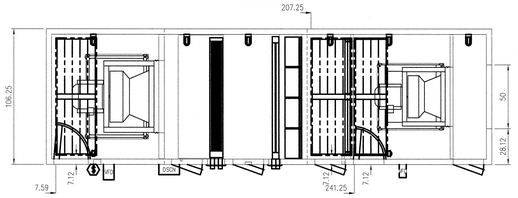
(J) FILTERS : LIFT-OUT UPSTREAM
VELOCITY : 500 FPM
TYPE : 2" (MERV 8) Farr 30/30
12" (MERV 14) Farr Durafil 2V 90-95%
SIZES : 15 @ 24 X 24 5 @ 24 X 12

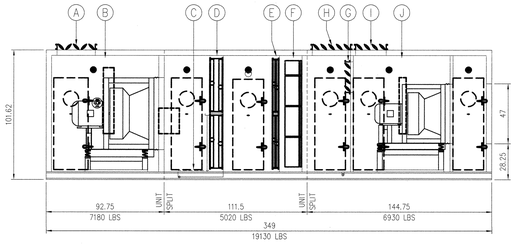
(K) SOUND ATTENUATOR
LENGTH : 60 FREE AREA (%) : 25

(L) OA DAMPER : OPPOSED BLADES
MAKE : T.A. Morrison 1000
SIZE : 89 X 57

UNIT MOUNTING
The unit shall be designed to be mounted on a concrete pad.

PLAN VIEW





AHU-1 SECTION VIEW

(A) SA DAMPER : OPPOSED BLADES
MAKE : T.A. Morrison 1000
SIZE : 92 X 32

(B) FAN : (SF) 40" EPFN SW, 88% Width, Arrangement-4 (ESP = 4")
AIR FLOW : 25000 CFM RPM : 1150
T.S.P. : 6 in wc CLASS : II
MOTOR : 40 HP, TEFC Prem-Eff, 460/3/60
RPM : 1150 (GROUNDED SHAFT)
ISOLATORS : OS DEF : 2 in
(Concrete Inertia Base – Concrete by AHU mfg)
FEG85 η_{ps}: 80% η_t / η_{ps} : 94%

(C) SS GRATING OVER DRAIN PAN

(D) COOLING COIL
TYPE : 6 ROW
SIZES : 2 @ 42 X 86
CONN : RIGHT PULL : RIGHT
DRAIN : RIGHT VEL : 499 FPM

(E) HEATING COIL
TYPE : 1 ROW
SIZES : 2 @ 42 X 86
CONN : RIGHT PULL : RIGHT
VEL : 499 FPM

(F) FILTERS : LIFT-OUT UPSTREAM
VELOCITY : 446 FPM
TYPE : 2" (MERV 8) Farr 30/30
12" (MERV 14) Farr Durafil 2V 90-95%
SIZES : 12 @ 24 X 24 4 @ 24 X 12

(G) RA DAMPER : PARALLEL BLADES
MAKE : T.A. Morrison 1000
SIZE : 89 X 26

(H) OA DAMPER : PARALLEL BLADES
MAKE : T.A. Morrison 1000
SIZE : 92 X 32

(I) EA DAMPER : PARALLEL BLADES
MAKE : T.A. Morrison 1000
SIZE : 92 X 26

(J) FAN : (SF) 33" EPFN SW, 90% Width, Arrangement-4
AIR FLOW : 20000 CFM RPM : 1150
T.S.P. : 2.1 in wc CLASS : I
MOTOR : 15 HP, TEFC Prem-Eff, 460/3/60
RPM : 1150 (GROUNDED SHAFT)
ISOLATORS : OS DEF : 2 in
(Concrete Inertia Base – Concrete by Haskon)
FEG80 η_{ps}: 78% η_t / η_{ps} : 77%

UNIT MOUNTING
The unit shall be designed to be mounted on a concrete pad.

UNIVERSITY OF CONNECTICUT

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ISSUE/REVISION:

NO.	DATE	COMMENTS

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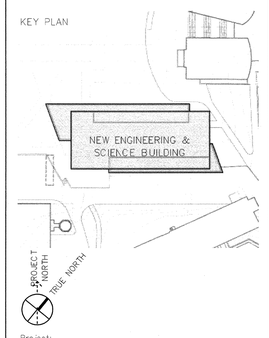
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

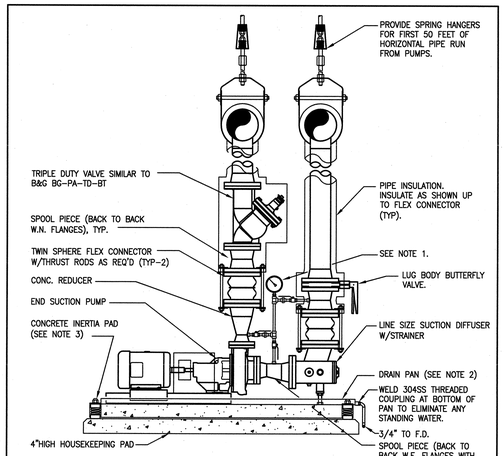
Drawing Title:

HVAC
AHU DETAILS

CONFORMED SET: 05/29/2015

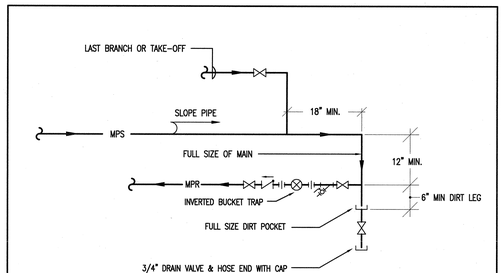
PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/4" = 1'-0"

H5.00



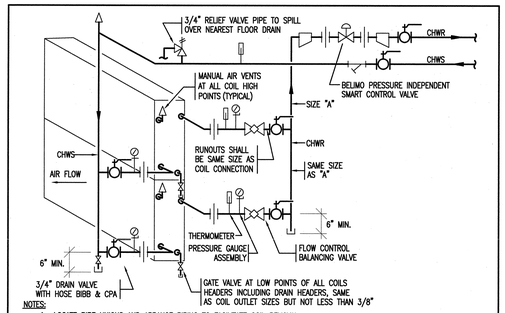
NOTES:
1. PRESSURE GAUGE WITH SNUBBER. PIPING TO GAUGE SHALL BE ALL 1/4" 304SS PIPING AND FITTINGS. PROVIDE 316SS BALL VALVES FOR SHUTOFF. INSULATION OF THIS PIPING IS NOT REQUIRED.
2. WHERE PUMP SERVES COOLING APPLICATIONS (IE. CHILLED WATER) PROVIDE 16 GAUGE, ALL WELDED, 304 SS DRAIN PAN WITH 1-1/2" LIP UNDER ENTIRE PUMP AND 3/4"COPPER PIPE TO DRAIN. BOLTS FOR ANCHORING PUMP SHALL BE 304SS AND SHALL BE SEALED WITH RUBBER WASHERS.
3. SEE VIBRATION & ISOLATION SCHEDULE FOR REQUIREMENTS.
4. PROVIDE GEAR OPERATOR FOR VALVES 6" AND LARGER. TYPICAL.

13 END SUCTION PUMP PIPING DETAIL (VARIABLE SPEED, 2-1/2" & GREATER) NTS



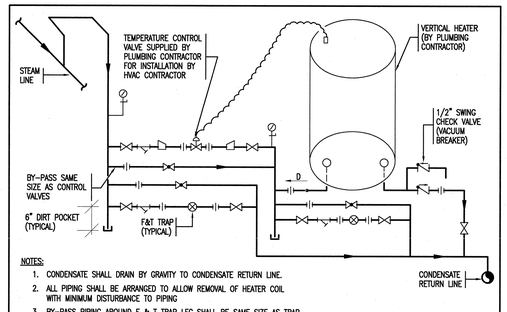
NOTES:
① PROVIDE DOUBLE TRAP ARRANGEMENT WHERE SHOWN ON THE DRAWINGS &/OR SPECIFIED.

9 HIGH/MEDIUM/LOW PRESSURE END-OF-MAIN STEAM TRAP NTS



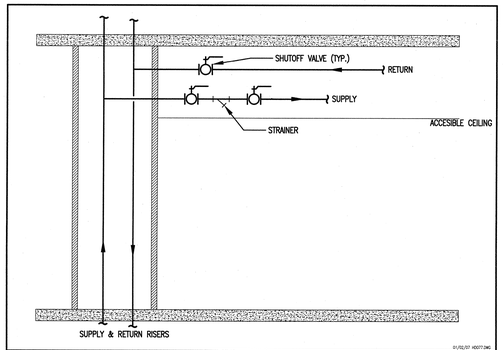
NOTES:
1. LOCATE PIPE UNIONS AND ARRANGE PIPING TO FACILITATE COIL REMOVAL.
2. PROVIDE SIMILAR PIPING ARRANGEMENTS ON EACH SIDE FOR TWO SECTION WIDE COIL ASSEMBLY.
3. PROVIDE SIMILAR PIPING FOR 3 OR MORE COILS HIGH
4. FOR PIPE SIZES SEE PLANS.

5 CHILLED WATER COOLING COIL CONNECTIONS - TWO OR MORE HIGH NTS

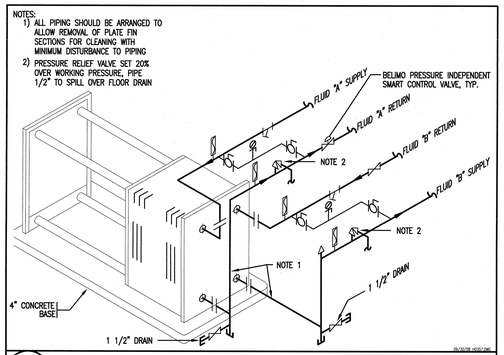


NOTES:
1. CONDENSATE SHALL DRAIN BY GRAVITY TO CONDENSATE RETURN LINE.
2. ALL PIPING SHALL BE ARRANGED TO ALLOW REMOVAL OF HEATER COIL WITH MINIMUM DISTURBANCE TO PIPING
3. BY-PASS PIPING AROUND F & T TRAP LEG SHALL BE SAME SIZE AS TRAP.
4. DIRT POCKETS SHALL BE FULL SIZE OF RISER BUT NOT OVER 3 INCHES IN DIAMETER, OR LESS THAN 2 INCHES IN DIAMETER.

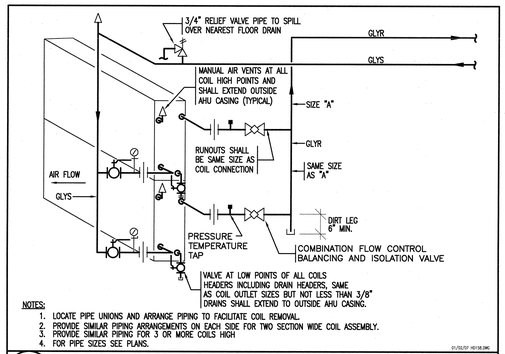
1 STEAM CONNECTIONS TO INSTANTANEOUS DOMESTIC HOT WATER HEATER NTS



10 BRANCH STRAINER PIPING NTS

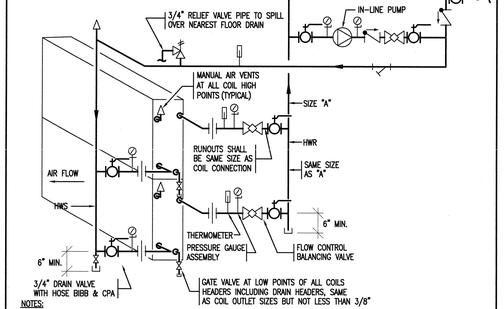


6 PLATE AND FRAME HEAT EXCHANGER NTS



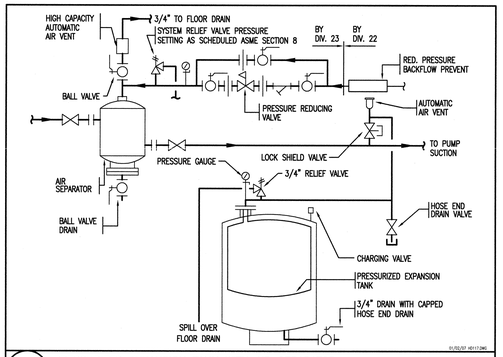
NOTES:
1. LOCATE PIPE UNIONS AND ARRANGE PIPING TO FACILITATE COIL REMOVAL.
2. PROVIDE SIMILAR PIPING ARRANGEMENTS ON EACH SIDE FOR TWO SECTION WIDE COIL ASSEMBLY.
3. PROVIDE SIMILAR PIPING FOR 3 OR MORE COILS HIGH
4. FOR PIPE SIZES SEE PLANS.

2 HEAT RECOVERY COIL CONNECTIONS - TWO OR MORE HIGH NTS

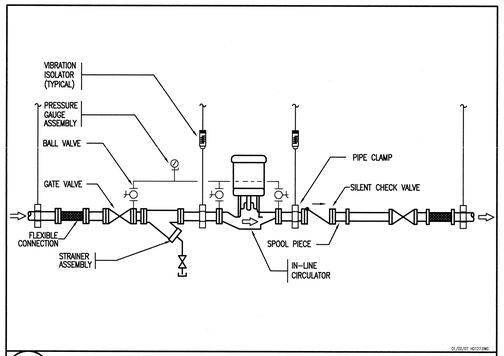


NOTES:
1. LOCATE PIPE UNIONS AND ARRANGE PIPING TO FACILITATE COIL REMOVAL.
2. PROVIDE SIMILAR PIPING ARRANGEMENTS ON EACH SIDE FOR TWO SECTION WIDE COIL ASSEMBLY.
3. PROVIDE SIMILAR PIPING FOR 3 OR MORE COILS HIGH
4. FOR PIPE SIZES SEE PLANS.

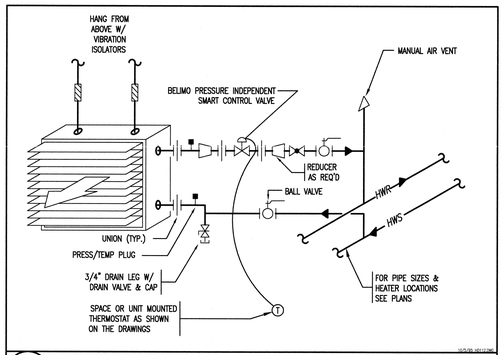
14 HOT WATER HEATING COIL CONNECTIONS W/ FREEZE PROTECTION PUMP - TWO OR MORE HIGH NTS



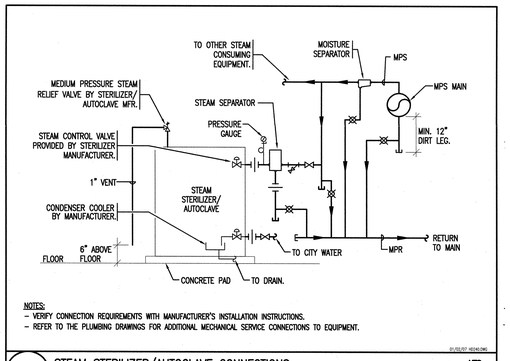
11 PRESSURIZED EXPANSION TANK WITH AIR SEPARATOR NTS



7 IN-LINE PUMP PIPING NTS

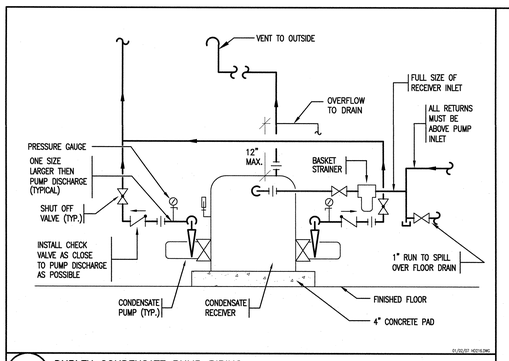


3 HOT WATER UNIT HEATER NTS

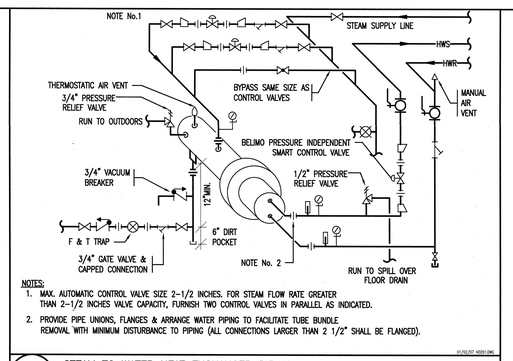


NOTES:
- VERIFY CONNECTION REQUIREMENTS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- REFER TO THE PLUMBING DRAWINGS FOR ADDITIONAL MECHANICAL SERVICE CONNECTIONS TO EQUIPMENT.

15 STEAM STERILIZER/AUTOCLAVE CONNECTIONS (WITH STEAM SEPARATOR) NTS

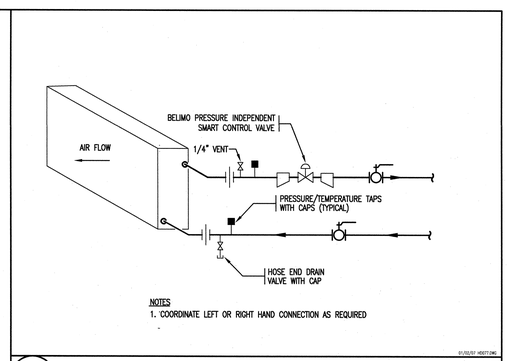


12 DUPLEX CONDENSATE PUMP PIPING NTS



NOTES:
1. MAX. AUTOMATIC CONTROL VALVE SIZE 2-1/2 INCHES. FOR STEAM FLOW RATE GREATER THAN 2-1/2 INCHES VALVE CAPACITY, FURNISH TWO CONTROL VALVES IN PARALLEL AS INDICATED.
2. PROVIDE PIPE UNIONS, FLANGES & ARRANGE WATER PIPING TO FACILITATE TUBE BUNDLE REMOVAL WITH MINIMUM DISTURBANCE TO PIPING (ALL CONNECTIONS LARGER THAN 2 1/2" SHALL BE FLANGED).

8 STEAM TO WATER HEAT EXCHANGER PIPING NTS



NOTES
1. COORDINATE LEFT OR RIGHT HAND CONNECTION AS REQUIRED

4 TERMINAL BOX RH COIL WITH CENTRAL STRAINER NTS

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LEED CONSULTANT:
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ISSUE/REVISION:

NO.	DATE	COMMENTS

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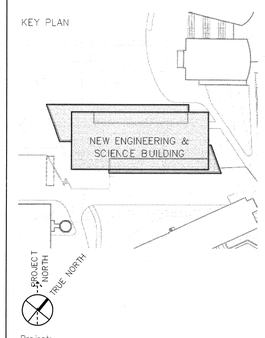
KEY PLAN



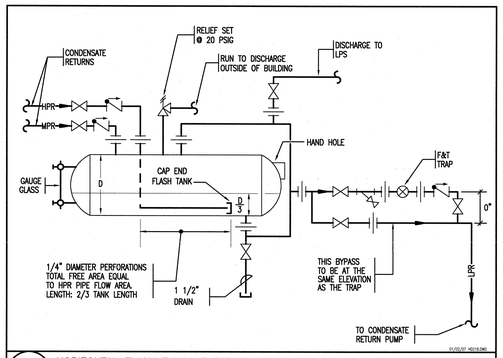
Project:
NEW ENGINEERING AND SCIENCE BUILDING

Drawing Title:
HVAC DETAILS

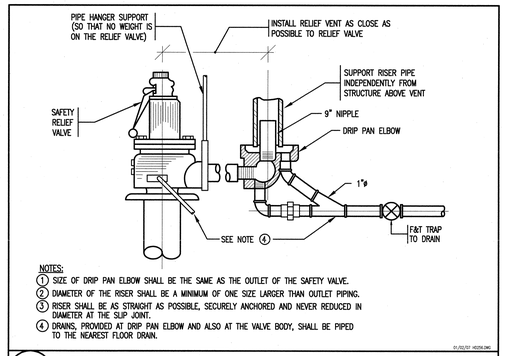
CONFORMED SET: 05/29/2015

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: N.T.S.

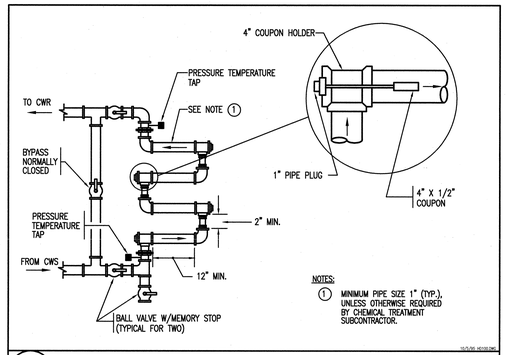
H5.01



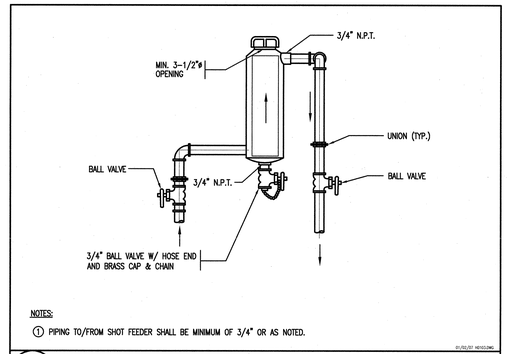
13 HORIZONTAL FLASH TANK VENTED TO LOW PRESSURE STEAM — NTS



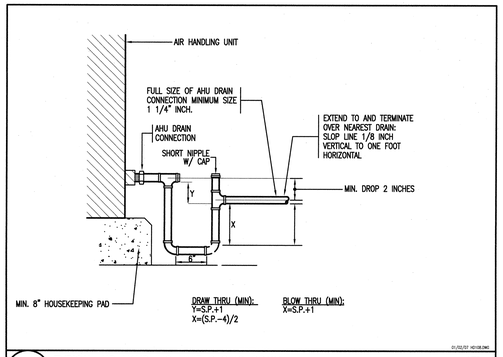
9 SAFETY VALVE WITH DRIP PAN ELBOW — NTS



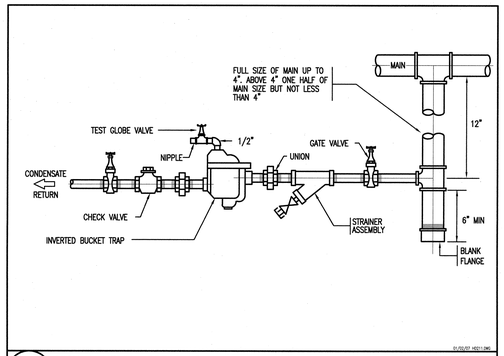
5 COUPON RACK — NTS



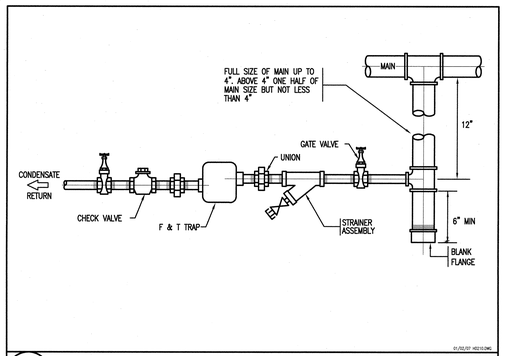
1 CHEMICAL FEEDER TANK — NTS



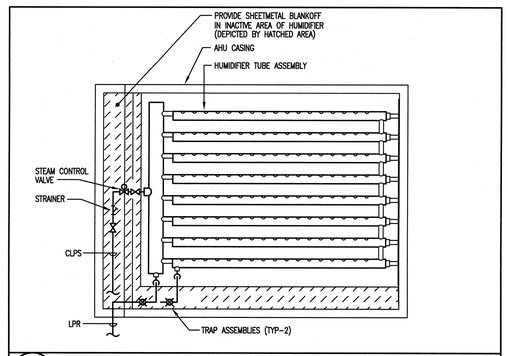
14 TYPICAL AIR HANDLING UNIT CASING DRAIN — NTS



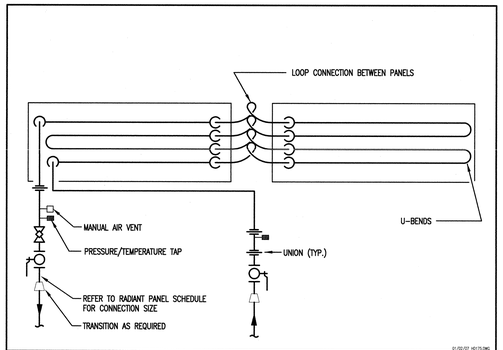
10 HIGH & MEDIUM PRESSURE STEAM TRAP ASSEMBLY — NTS



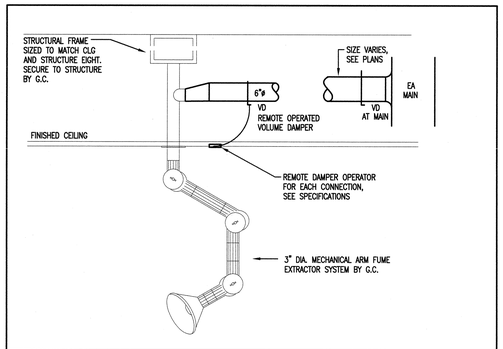
6 LOW PRESSURE STEAM TRAP ASSEMBLY — NTS



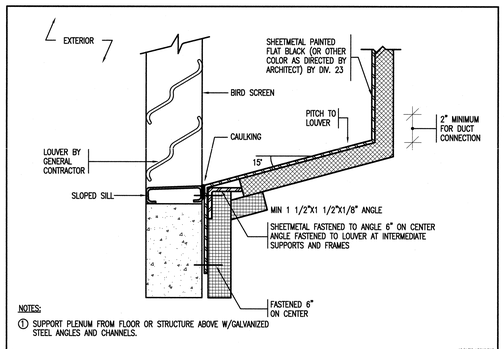
2 STEAM HUMIDIFIER PIPING — NTS



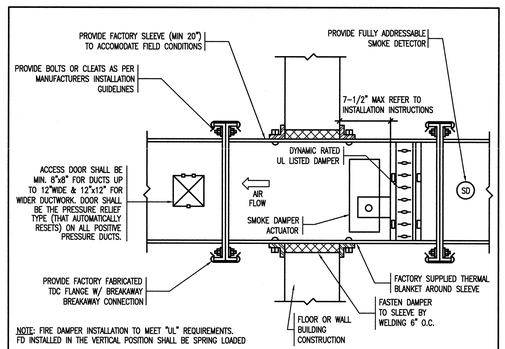
15 RADIANT PANEL PIPING — NTS



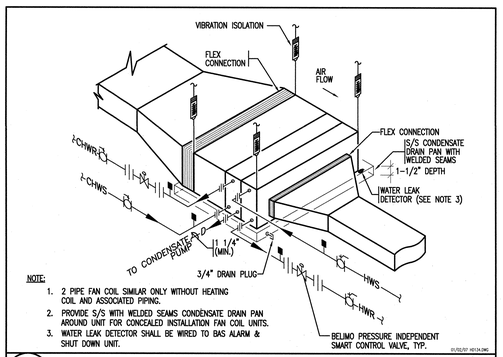
11 MECHANICAL ARM FUME EXTRACTOR — NTS



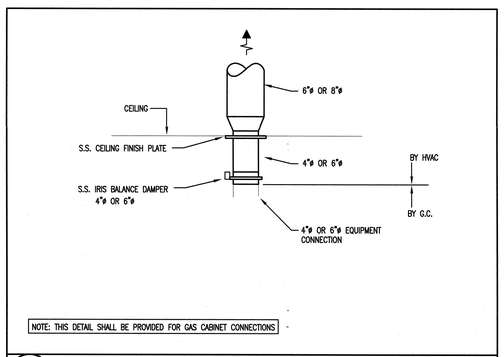
7 PLENUM LOUVER CONNECTION — NTS



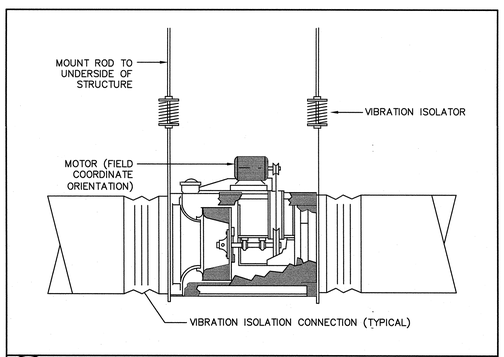
3 FIRE DAMPER/FIRE SMOKE DAMPER AWAY FROM FIRE PARTITION — NTS



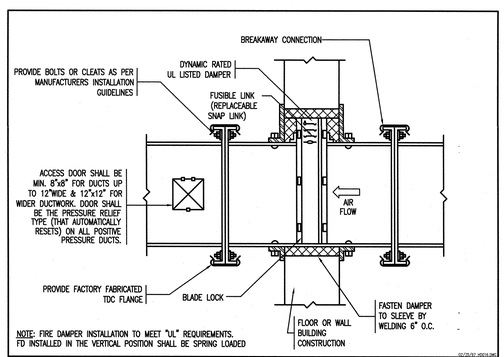
16 HORIZONTAL FAN COIL UNIT WITH DUCTED DISCHARGE AND RETURN — NTS



12 EQUIPMENT CEILING EXHAUST DETAIL — NTS



8 INLINE FAN DETAIL — NTS



4 FIRE DAMPER W/BLADES OUTSIDE THE AIR STREAM — NTS

UNIVERSITY OF CONNECTICUT

ARCHITECT:
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ISSUE/REVISION:

NO.	DATE	COMMENTS

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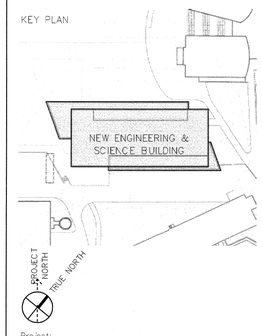
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

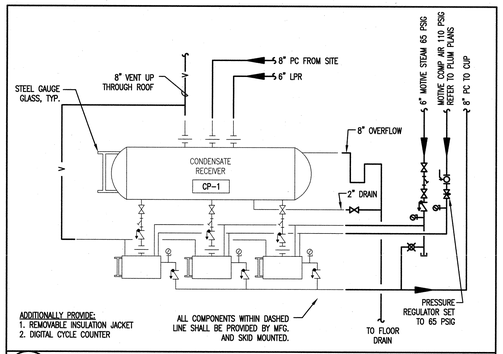
Drawing Title:

HVAC DETAILS

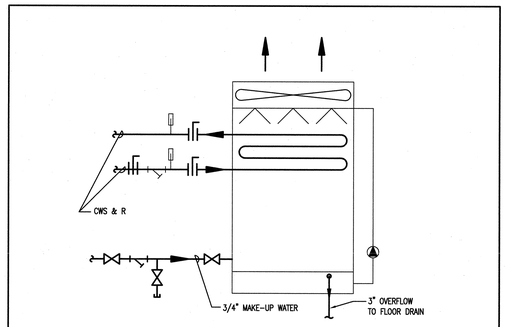
PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: N.T.S.

H5.02

CONFORMED SET: 05/26/2015

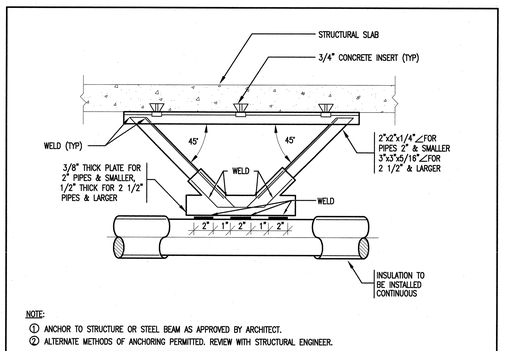


12 STEAM PRESSURE POWERED CONDENSATE PUMP DETAIL

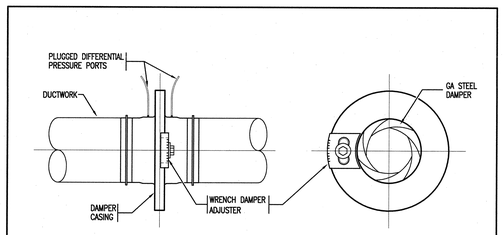


9 CLOSED-CIRCUIT EVAPORATIVE COOLING TOWER PIPING

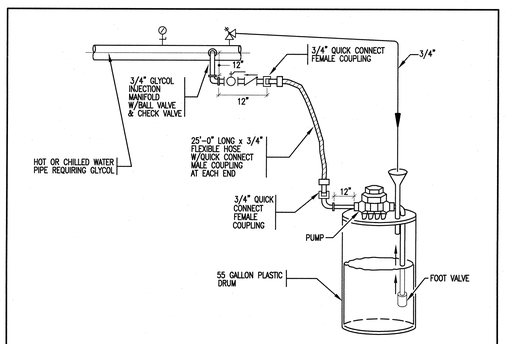
5 NOT USED NTS



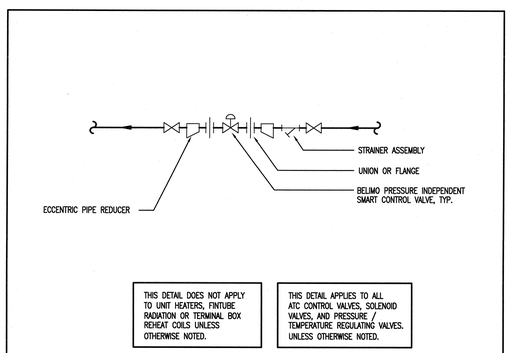
1 TYPICAL HORIZONTAL PIPE ANCHOR NTS



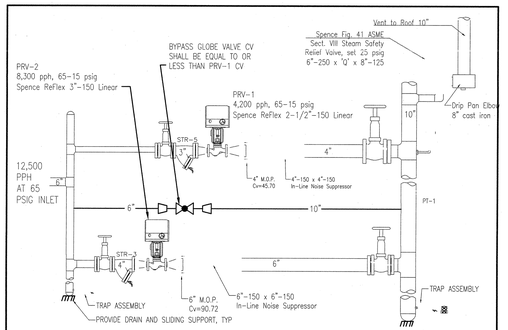
13 IRIS DAMPER DETAIL NTS



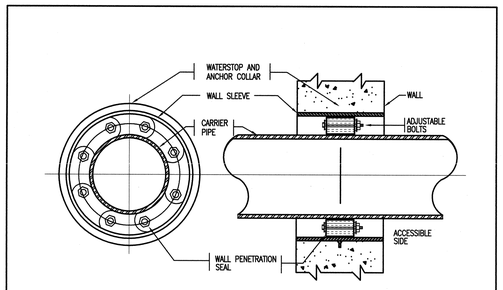
10 GLYCOL FEEDER NTS



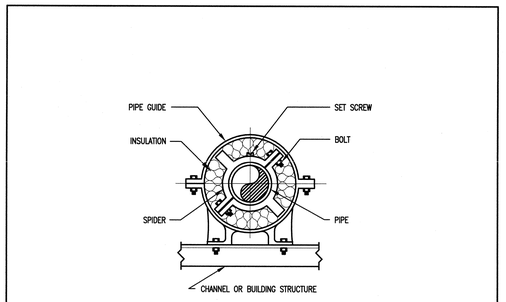
6 CONTROL VALVE (WATER) NTS



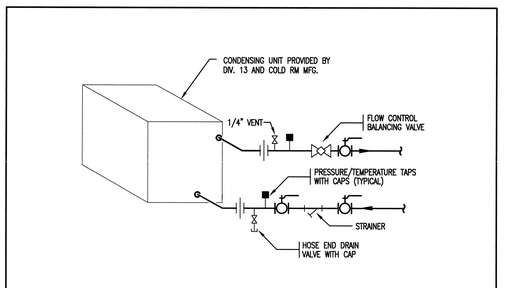
2 STEAM PRV DETAIL NTS



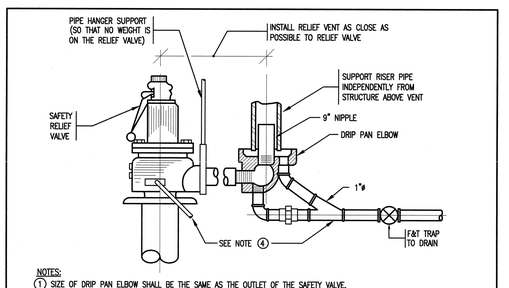
14 WATERTIGHT WALL PENETRATION FOR PIPES (WITH SINGLE SEAL) NTS



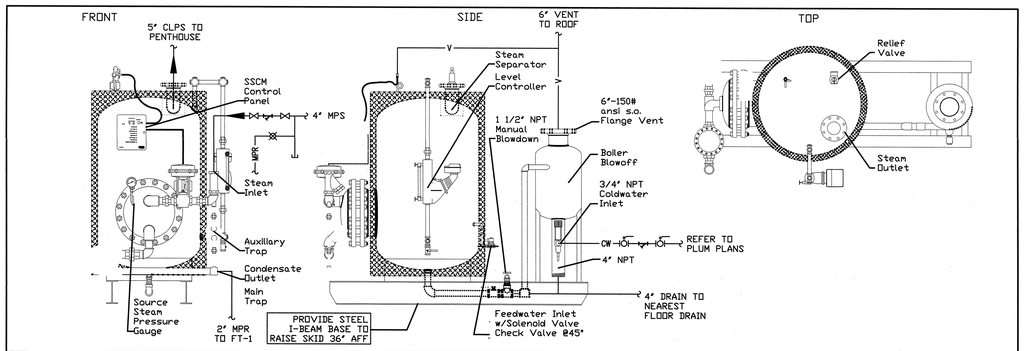
11 HORIZONTAL & VERTICAL PIPE GUIDE NTS



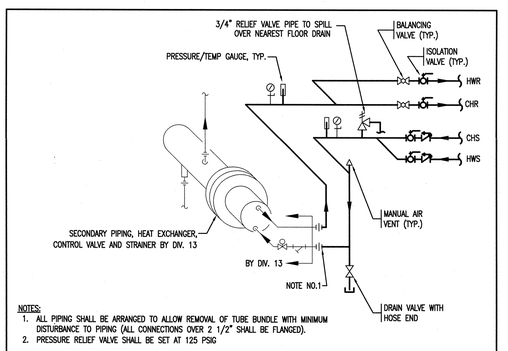
7 ENVIRONMENTAL ROOM/COLD ROOM CONDENSING CONNECTION DETAIL UNIT NTS



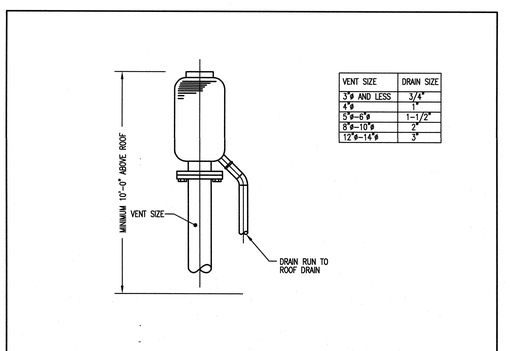
3 SAFETY VALVE WITH DRIP PAN ELBOW NTS



15 CLEAN STEAM GENERATOR DETAIL NTS



8 WATER LAB TANK HEAT EXCHANGER CONNECTION DETAIL NTS



VENT SIZE	DRAIN SIZE
3'ø AND LESS	3/4"
4'ø	1"
5'ø-6'ø	1-1/2"
8'ø-10'ø	2"
12'ø-14'ø	3"

4 TYPICAL EXHAUST HEAD DETAIL NTS

UNIVERSITY OF CONNECTICUT

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ISSUE/REVISION:

NO.	DATE	COMMENTS

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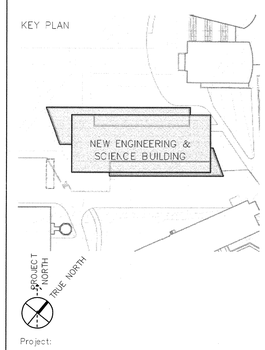
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

Drawing Title:

HVAC DETAILS

CONFORMED SET: 05/28/2015

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: N.T.S.

H5.03

PLUMBING LEGEND, SYMBOLS AND ABBREVIATIONS

CO2	CO2	CARBON DIOXIDE (GASEOUS)
CW	CW	COLD WATER
GV	GV	GAS VENT
HW	HW	HOT WATER
HWR	HWR	HOT WATER RETURN
LA	LA	LABORATORY AIR – 110 psig
LAI	LAI	LABORATORY AIR INTAKE
VAC	VAC	LABORATORY VACUUM
LV	LV	LABORATORY VENT
LV	LV	LABORATORY VENT BELOW FLOOR
LW	LW	LABORATORY WASTE
LW	LW	LABORATORY WASTE BELOW FLOOR
R	R	MANIFOLD GAS RELIEF VENT
G	G	NATURAL GAS
G	G	NATURAL GAS BELOW GRADE
HPN	HPN	NITROGEN – HIGH PRESSURE
N	N	NITROGEN – LOW PRESSURE
RCW	RCW	RECLAIMED COLD WATER
NCW	NCW	NON-POTABLE COLD WATER
NCWH	NCWH	NON-POTABLE COLD WATER HIGH ZONE
NHW	NHW	NON-POTABLE HOT WATER
NHWR	NHWR	NON-POTABLE HOT WATER RETURN
OD	OD	OVERFLOW DRAIN
OD	OD	OVERFLOW DRAIN BELOW FLOOR
PD	PD	PUMPED DISCHARGE
RWL	RWL	RAIN WATER LEADER
RWL	RWL	RAIN WATER LEADER BELOW FLOOR
R	R	RELIEF VENTS
RODI	RODI	REVERSE OSMOSIS DEIONIZED WATER
RO	RO	REVERSE OSMOSIS WATER
	S or W	SOIL OR WASTE
	S or W	SOIL OR WASTE BELOW FLOOR
RWL	RWL	RAINWATER LEADER
OWL	OWL	OVERFLOW WATER LEADER
TW	TW	TEMPERED WATER
TP	TP	TRAP PRIMER WATER SUPPLY
TP	TP	TRAP PRIMER WATER SUPPLY BELOW FLOOR
VE	VE	VACUUM EXHAUST
	V	VENT
	V	VENT BELOW FLOOR

	AAP	AREA ALARM PANEL
	AD	AREA DRAIN
		ARROW INDICATES DIRECTION OF FLOW
		ARROW INDICATES DIRECTION OF SLOPE DOWN
	BWV	BACKWATER VALVE
	BV	BALANCING VALVE
		CAPPED PIPE
	CV	CHECK VALVE
	CO	CLEANOUT PLUG
	TB	CONCRETE THRUST BLOCK
1 P-1		DETAIL DESIGNATION
		DIAPHRAGM VALVE
	DCVA	DOUBLE CHECK VALVE ASSEMBLY
	EE	EMERGENCY EYEWASH
	ES	EMERGENCY SHOWER
E-1		EQUIPMENT DESIGNATION
	EJ	EXPANSION JOINT
	FD	FLOOR DRAIN
	FD	FLOOR DRAIN WITH TRAP
	FCO	FLUSH FLOOR CLEANOUT
	GD	GARAGE DRAIN
1		GENERAL NOTE DESIGNATION
	GCO	GRADE CLEANOUT
	HB	HOSE BIBB
	DV	HOSE END DRAIN VALVE
1		KEYED NOTE DESIGNATION
K-1		KITCHEN EQUIPMENT DESIGNATION
	MGA	MASTER GAS ALARM PANEL
M		METER
		NATURAL GAS SHUTOFF VALVE
	OED	OPEN END DRAIN W/TRAP
	PAG	PIPE ALIGNMENT GUIDE
	PA	PIPE ANCHOR
	DN	PIPE DOWN
	DROP	PIPE DROP
	UP	PIPE UP
	WC-1	PLUMBING FIXTURE DESIGNATION
	PG	PRESSURE GAUGE ASSEMBLY
	PRV	PRESSURE REDUCING VALVE
	RPBP	REDUCED PRESSURE BACKFLOW PREVENTOR
2 4		RISER DESIGNATION AND SYSTEM
	RD	ROOF DRAIN
1 P-1		SECTION DESIGNATION AND REFERENCE DWG. NO.
		SHUT-OFF VALVE
		STRAINER
	T & P	TEMPERATURE AND PRESSURE RELIEF VALVE
	T	THERMOMETER
	TP	TRAP PRIMER
	TD	TRENCH DRAIN
		UNION
	WCO	WALL CLEANOUT
	WH	WALL HYDRANT
	W&T	WASTE AND TRAP
	SA	WATER HAMMER ARRESTOR (SHOCK ABSORBER)
	WTS	WATERTIGHT SLEEVE
		VACUUM RELIEF VALVE
	VIV	VALVE IN VERTICAL

AFF	ABOVE FINISHED FLOOR	
AFG	ABOVE FINISHED GRADE	
AP	ACCESS PANEL	
BSC	BIO SAFETY CABINET	
CE	CAP EXISTING PIPE	
CFOI	CONTRACTOR FURNISHED/OWNER INSTALLED	
CS	CUP SINK	
DF	DRINKING FOUNTAIN	
EC	ELECTRICAL CONTRACTOR	
EWC	ELECTRIC WATER COOLER	
FGE	FINISH GRADE ELEVATION	
FPC	FIRE PROTECTION CONTRACTOR	
FH	FUME HOOD	
MG	GAS MANIFOLD	
GC	GENERAL CONTRACTOR	
HVAC	HVAC CONTRACTOR	
INV	INVERT ELEVATION	
IW	INDIRECT WASTE	
KEC	KITCHEN EQUIPMENT CONTRACTOR	
T	LABORATORY TRIM	
LWS	LABORATORY WASTE STACK	
LVS	LABORATORY VENT STACK	
LVTR	LABORATORY VENT THRU ROOF	
L	LAVATORY	
LPC	LIMIT OF PLUMBING CONTRACT	
MSB	MOP SERVICE BASIN	
NC	NORMALLY CLOSED	
NO	NORMALLY OPEN	
NIPC	NOT IN PLUMBING CONTRACT	
NTS	NOT TO SCALE	
OFI	OWNER FURNISHED AND INSTALLED	
OFCI	OWNER FURNISHED/CONTRACTOR INSTALLED	
PC	PLUMBING CONTRACTOR	
SCW	SOFT COLD WATER	
SH	SHOWER	
SK	SINK	
S=.01	SLOPE = 1/8" PER FOOT	
S=.02	SLOPE = 1/4" PER FOOT	
S & V	SOIL AND VENT	
SS	SOIL STACK	
TYP	TYPICAL	
UR	URINAL	
VS	VENT STACK	
VTR	VENT THRU ROOF	
W & V	WASTE AND VENT	
WS	WASTE STACK	
WC	WATER CLOSET	

UNIVERSITY OF CONNECTICUT

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NO.	DATE	COMMENTS
1	03/20/2015	ADDENDUM 1
2	05/08/2015	ADDENDUM 6

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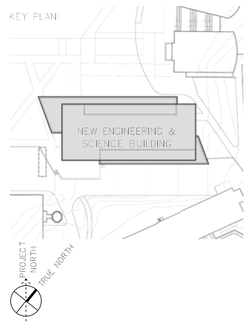

PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:

PLUMBING COVER SHEET

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: NTS

P0.01

CONFORMED SET: 05/29/2015

PLUMBING FIXTURE ROUGHING SCHEDULE

SYMBOL	FIXTURE	CONNECTIONS						REMARKS
		S/W	V	CW	HW	TW	RODI	
WC-1	WATER CLOSET	4"	2"	1¼"	–	–	–	WALL MOUNTED, PUBLIC/STAFF, ACCESSIBILITY PER ARCHITECTURAL ELEVATIONS, SEE ARCHITECTURAL DETAIL.
WC-2	WATER CLOSET	4"	2"	1¼"	–	–	–	WALL MOUNTED, PUBLIC/STAFF, ACCESSIBILITY PER ARCHITECTURAL ELEVATIONS, SEE ARCHITECTURAL DETAIL.
UR-1	URINAL	2"	2"	1"	–	–	–	PUBLIC.
L-1	LAVATORY	1½"	1½"	½"	½"	–	–	
SK-1	SINK	2"	2"	½"	½"	–	–	LOUNGE.
MSB-1	MOP SERVICE BASIN	3"	2"	½"	½"	–	–	24" x 24"
DF-1	ELECTRIC WATER COOLER	1½"	1½"	½"	–	–	–	
ES-1	EMERGENCY SHOWER	–	–	–	–	1½"	–	
HB-1	HOSE BIBB	–	–	¾"	–	–	–	3/4" NCW ONLY, MECHANICAL ROOMS
WH-1	WALL HYDRANT	–	–	¾"	–	–	–	
LSK-1	LABORATORY SINK	2"	2"	½"	½"	1¼"	½"	
LSK-2	LABORATORY SINK	2"	2"	½"	½"	–	½"	
LSK-3	LABORATORY SINK	2"	2"	½"	½"	–	–	
LSK-4	LABORATORY SINK	2"	2"	½"	½"	1¼"	½"	
CS-1	CUP SINK	1½"	1½"	½"	–	–	–	

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE				FIXTURE			DRAIN		TRAP		CARRIER		ADDITIONAL REQUIMENTS
	MANUFACTURER	MODEL	TYPE	SIZE	MANUFACTURER	TYPE	SUPPLY	MANUFACTURER	TYPE	MANUFACTURER	TYPE	MANUFACTURER	TYPE	
WC-1	TOTO	CT 708 EVG	WALL HUNG SIPHON JET 1.28 GAL FLUSH	1½" BACK SPUD	TOTO	ECO POWER TET 2LN 33 #SS	1¼"	INTEGRAL	WALL MOUNTED	INTEGRAL	NA	JOSAM	WALL MOUNTED	SEAT: BEMIS MODEL NO. 2155C, OPEN FRONT LESS COVER, WHITE
WC-2	TOTO	CT 708 EVG	WALL HUNG SIPHON JET 1.28 GAL FLUSH	1½" BACK SPUD	TOTO	ECO POWER TET 2LN 33 #SS	1¼"	INTEGRAL	WALL MOUNTED	INTEGRAL	NA	JOSAM	WALL MOUNTED	SEAT: BEMIS MODEL NO. 2155C, OPEN FRONT LESS COVER, WHITE, MOUNT AT ANSI A17 HEIGHT
UR-1	TOTO	UT 105 UVG	WALL MOUNTED 0.125 GAL FLUSH	¾" BACK SPUD	TOTO	TEU 2UN 11 #SS	¾"	INTEGRAL	WALL MOUNTED	INTEGRAL	NA	JR SMITH	0637	MOUNT SO TOP OF RIM IS 17"AFF PER ANSI A17.
L-1	DURAVIT	VERO 045412	WALL MOUNTED	47 ¾"x18 ½"x6 ⅞"	TOTO	TEL5LC10 HYDRO POWERED DECK MOUNTED SENSOR FAUCET	MCGUIRE H170-LK HEAVY DUTY SUPPLIES	MCGUIRE	K-13885 OFFSET GRID DRAIN	MCGUIRE	8902-C HEAVY DUTY CHROME PLATED CAST BRASS	NA	NA	ACCESSIBLE INSTALLATION, INSULATE TRAP AND SUPPLIES. PROVIDE TRAP PRIMING DEVICE FOR CW SUPPLY, PIPE TO FD (WHERE REQUIRED). PROVIDE MIXER TN78-10V710. FINISH SPECIFIED BY ARCHITECT.
L-2	AMERICAN STANDARD	0955.000	VITREOUS CHINA	22" x 22 ¼"	TOTO	TEL5LC10 HYDRO POWERED DECK MOUNTED SENSOR FAUCET	MCGUIRE H170-LK HEAVY DUTY SUPPLIES	MCGUIRE	155WC OFFSET GRID DRAIN	MCGUIRE	8902-C HEAVY DUTY CHROME PLATED CAST BRASS	LOSAM	17100	PROVIDE KNEE GUARD LAVATORY.
SK-1	ELKAY	LRAD 2219	STAINLESS STEEL SELF RIMMING DROP IN	22"x19-1/2"x5-1/2" DEEP	CHICAGO	2300-CP	MCGUIRE H170-LK HEAVY DUTY SUPPLIES	ELKAY	LKAD-99	MCGUIRE	8912-C HEAVY DUTY CHROME PLATED CAST BRASS W/OFFSET	NA	NA	ACCESSIBLE INSTALLATION. PROVIDE 1.0 GPM AERATOR SIMILAR TO NIAGARA CONSERVATION N3601N.
MSB-1	FIAT	TSBCR-3010	PRECAST TERRAZZO	24" x 24" x 12"	CHICAGO	897-CP-317	½"	NA	FLOOR MOUNTED	3"	NA	NA	NA	PROVIDE 832AA BRACKET AND MSG BUMPER GUARD.
DF-1	HALSEY TAYLOR	HTHB-OVLSEBP-1	BI-LEVEL W/BOTTLE FILTER	38 ½" x 18"	N/A	N/A	½"	NA	NA	(2) 1 ¼" CAST BRASS	NA	NA	NA	PROVIDE WATER FILTER AND ACCESSIBLE INSTALLATION.
SH-1	NA	BY ARCHITECT	NA	NA	SYMMONS	VISU-TEMP 1-1-1-117OVT-H423-V-X	(2) ½"	NA	3"FD-A	3"	NA	NA	NA	PROVIDE 1.5 GPM FLOW RESTRICTOR.
ES-1	WATER SAVER	SSBF2100	COMBINATION SHOWER /EYEWASH RECESSED WITH DRAIN PAN	NA	NA	NA	1½"	NA	NA	NA	NA	NA	NA	BARRIER FREE, W/ SWING DOWN EYEWASH
HB-1	NA	NA	NA	NA	CHICAGO	7T	¾"	NA	NA	NA	NA	NA	NA	–
WH-1	NA	NA	NA	NA	JR SMITH	5609QT	¾"	NA	NA	NA	NA	NA	NA	FINISH AS SPECIFIED BY ARCHITECT.
LSK-1, LSK-2, LSK-3, LSK-4, LSK-5	PROVIDED BY DIVISION 11, INSTALLED BY PLBG CONTRACTOR									2" POLY-PROPYLENE	NA			

NOTE: MANUFACTURERS LISTED ARE USED AS THE DESIGN BASE, REFER TO SPECIFICATIONS FOR APPROVED EQUALS AND OTHER PROPRIETARY ITEMS.

WATER HAMMER ARRESTOR SCHEDULE

SYMBOL	FIXTURE UNIT RATING	PIPE SIZE	J.R. SMITH	PPP, Inc	JOSAM	REMARKS
SA-A	1-11	3/4"	5005	SC-125	75001	STAINLESS STEEL
SA-B	12-32	1"	5010	SC-375	75002	STAINLESS STEEL
SA-C	33-60	1"	5020	SC-500	75003	STAINLESS STEEL
SA-D	61-113	1"	5030	SC-750	75004	STAINLESS STEEL
SA-E	114-154	1"	5040	SC-1000	75005	STAINLESS STEEL
SA-F	155-330	1"	5050	SC-1250	75006	STAINLESS STEEL

NOTE: REFER TO MANUFACTURER'S INSTALLATION GUIDELINES. REFER TO SPECIFICATION FOR REQUIRED LOCATIONS.

LABORATORY EQUIPMENT CONNECTION SCHEDULE

DESIG.	ITEM	CONNECTION AT EQUIPMENT												REMARKS
		SNCW	NCW	NHW	CO2	RODI	LW	LV	HPA	N	VAC	GAS	GX1-4	
BSC-1	BIO-SAFETY CABINET	–	–	–	–	–	–	–	–	–	¾"	–	–	–
FH-1	FUME HOOD	–	(2)½"	–	–	–	(2)2"	(2)1½"	½"	½"	¾"	¾"	½"EACH	–
FH-2	FUME HOOD	–	½"	–	–	–	2"	1½"	½"		¾"	¾"	½"EACH	–
ST-1	STERILIZER	1¼"	–	–	–	–	–	–	–	–	–	–	–	6"FLOOR DRAIN (SEE DETAIL)
INC	INCUBATORS	–	–	–	½"	–	–	–	–	–	–	–	–	WITH POINT OF USE REGULATOR (SEE DETAIL)
ICE	ICE MACHINE	–	½"	–	–	–	–	–	–	–	–	–	–	4"FLOOR DRAIN (SEE DETAIL)
GW-1	GLASSWASHER	–	1"	1¼"	–	1½"	–	–	–	–	–	–	–	6"FLOOR DRAIN (SEE DETAIL)

WATER HEATER SCHEDULE

DESCRIPTION	QTY	CAPACITY (EACH)		STEAM PRESSURE AT INLET	TEMP SETTING	MANUFACTURER AND MODEL	REMARKS
		GPM	DEG RISE				
SWH 3+4 POTABLE WATER HEATER	2	10	80°F	15 PSI	120°F	CCX 120-20-15	INSTANTANEOUS SEE SPECIFICATIONS.
SWH 1+2NON-POTABLE WATER HEATER	2	25	100°F	15 PSI	140°F	CCX 140-25-15	INSTANTANEOUS SEE SPECIFICATIONS.

PLUMBING EQUIPMENT REQUIREMENTS SCHEDULE

TAG	DESCRIPTION	PUMP CAPACITY	HEAD (FEET)	ELECTRICAL CHARACTERISTICS				EMERGENCY POWER	REMARKS
				HP	VOLTAGE	PHASE	RPM		
DHWRP-1	DOMESTIC WATER RECIRCULATING PUMP	20 GPM	20	(2)1/6	120	1	2800	NO	DUPLEX
LHWRP-1	LABORATORY WATER RECIRCULATING PUMP	20 GPM	20	(2)1/6	120	1	2800	NO	DUPLEX
DBP-1	DOMESTIC WATER BOOSTER	98 GPM	162	(3)10	480	3	3500	NO	TRIPLEX
GBP-1	RECLAMED WATER BOOSTER	60 GPM	120	(3)10	480	3	3500	NO	TRIPLEX
SP-1	ELEVATOR SUMP PUMPS	50 GPM	25	1	480	3	1750	NO	PROVIDE POWER TO CONTROL PANEL
FDP	FOUNDATION DRAINAGE SUMP PUMPS	25 GPM	25	1/2	480	3	1750	YES	PROVIDE POWER TO CONTROL PANEL
SE-1	SEWAGE EJECTOR	165 GPM	30	(2)5	480	3	1735	YES	DUPLEX, PROVIDE POWER TO CONTROL PANEL
LAC-1	LABORATORY COMPRESSED AIR SYSTEM	80 SCFM	110	(2)15	480	3	3600	NO	DUPLEX BASE MOUNTED
LVP-1	LABORATORY VACUUM SYSTEM	87 SCFM	19	(2)10	480	3	3600	NO	DUPLEX BASE MOUNTED
RODI-1	PURE WATER DISTRIBUTION	100 GPM	30	(2)5	480	3		NO	SEE RODI SCHEMATIC
RODI-2	PRE-RO RECIRCULATION			3/4	480	3		NO	
RODI-3	RO SYSTEM	8000 GPD		10	480	3		NO	SIMPLEX

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P0.02

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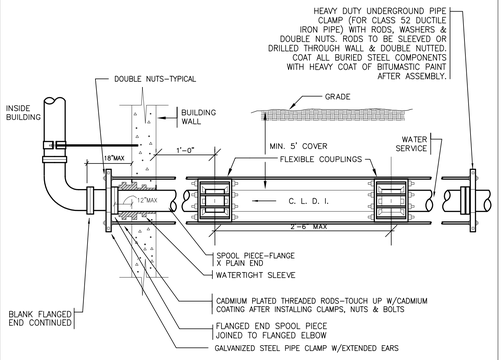
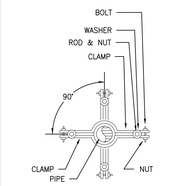


1 DETAIL OF WATER SERVICE THROUGH FOUNDATION WALL NOT TO SCALE



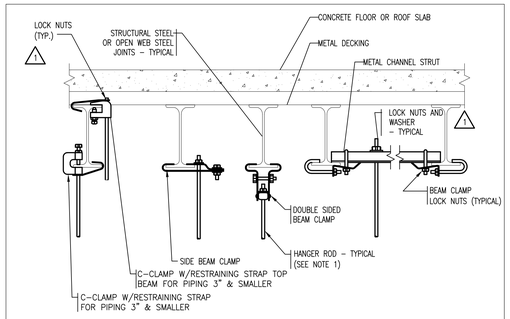
END VIEW OF PIPE WITH 2 CLAMPS

MINIMUM SIZES FOR CLAMPS, RODS, BOLTS & WASHERS

PIPE DIA	CLAMPS	RODS	BOLTS	WASHERS
4"&6"	1/2"x2"	(2)5/8"	5/8"	5/8"x3"ø
8"	5/8"x2"	(2)3/4"	5/8"	5/8"x3"ø
10"	(2)5/8"x2"	(4)5/8"*	3/4"	5/8"x3"ø
12"	(2)5/8"x3"	(4)3/4"*	7/8"	3/4"x3 1/2"ø

* 2 RODS PER CLAMP

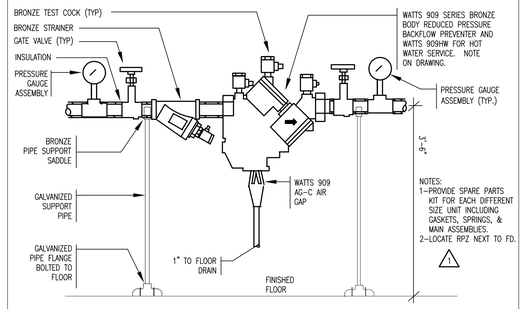
NOTES:
1. APPLIES TO BOTH DOMESTIC & FIRE PROTECTION WATER SERVICE
2. SEE ARCHITECTURAL PENETRATION DETAIL. (1)



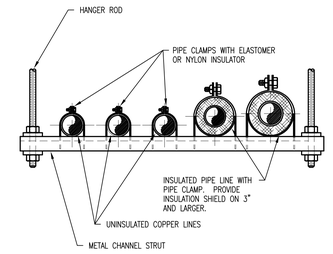
NOTE 1
REFER TO PIPE HANGER DETAIL FOR HANGER ROD SIZE. FOR CEILING SUSPENDED PIPING 3" & SMALLER ANDEQUIPMENT PROVIDE MIN. 3/8" DIA. HANGER ROD (REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS).

NOTE 2
INSTALL ALL HANGERS PRIOR TO APPLICATION OF SPRAY ON FIRE PROOFING. SEE ARCHITECTURAL DRAWINGS.

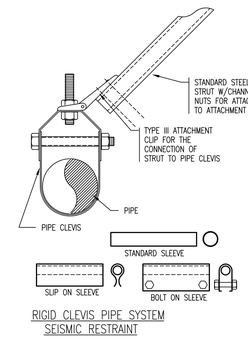
2 TYPICAL METHODS OF SECURING HANGER RODS TO STRUCTURAL STEEL NOT TO SCALE



3 REDUCED PRESSURE BACKFLOW PREVENTER NOT TO SCALE



4 TRAPEZE PIPE HANGER NTS



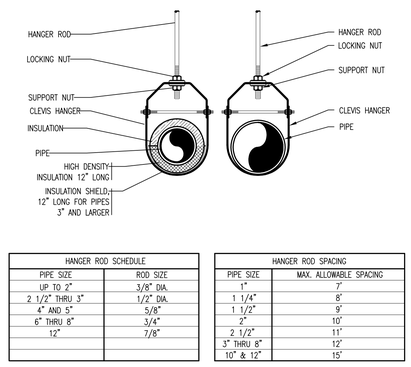
RIGID CLEVIS PIPE SYSTEM SEISMIC RESTRAINT

NOTE

PROVIDE RIGID SUPPORT SWAY BRACING AT EVERY CHANGE OF DIRECTION GREATER THAN 45 DEGREES FOR PIPE SIZES 4 INCHES AND LARGER.

PROVIDE BRACING FOR CAST IRON PIPING SYSTEMS IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND ALL APPLICABLE CISPI REQUIREMENTS.

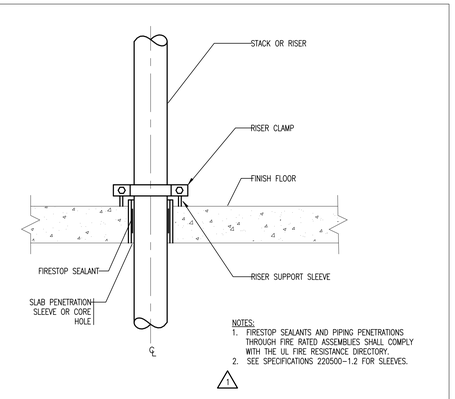
5 RIGID SUPPORT SWAY BRACING DETAIL NOT TO SCALE



HANGER ROD SCHEDULE	
PIPE SIZE	ROD SIZE
UP TO 2"	3/8" DIA.
2 1/2" THRU 3"	1/2" DIA.
4" AND 5"	5/8"
6" THRU 8"	3/4"
12"	7/8"

HANGER ROD SPACING	
PIPE SIZE	MAX. ALLOWABLE SPACING
1"	7'
1 1/4"	8'
1 1/2"	9'
2"	10'
2 1/2"	11'
3" THRU 8"	12'
10" & 12"	15'

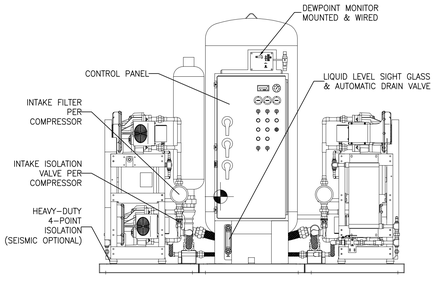
6 PLUMBING PIPE HANGER INSTALLATION DETAIL NOT TO SCALE



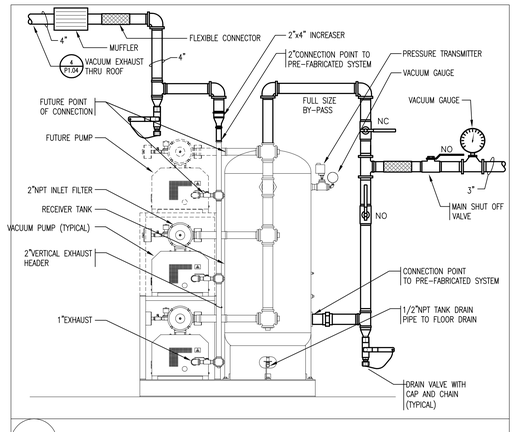
NOTES:
1. FIRESTOP SEALANTS AND PIPING PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL COMPLY WITH THE UL FIRE RESISTANCE DIRECTORY.
2. SEE SPECIFICATIONS 220500-1.2 FOR SLEEVES.

1

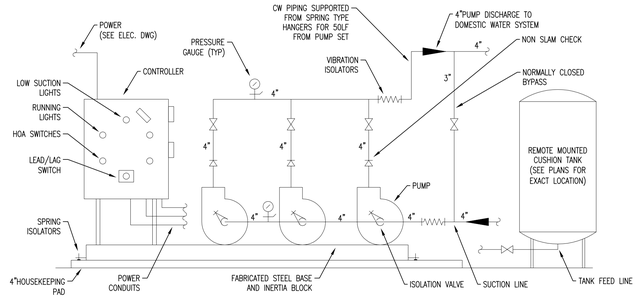
7 TYPICAL SLAB PENETRATION AND RISER SUPPORT SLEEVE DETAIL NOT TO SCALE



8 LABORATORY AIR COMPRESSOR NOT TO SCALE



9 LABORATORY VACUUM NOT TO SCALE



10 SCHEMATIC OF TRIPLEX DOMESTIC WATER BOOSTER PUMPS NOT TO SCALE

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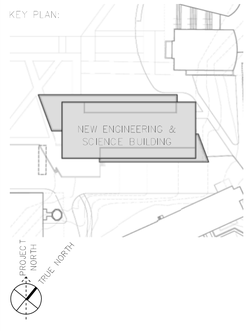

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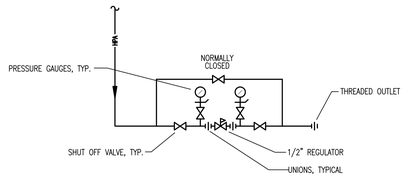
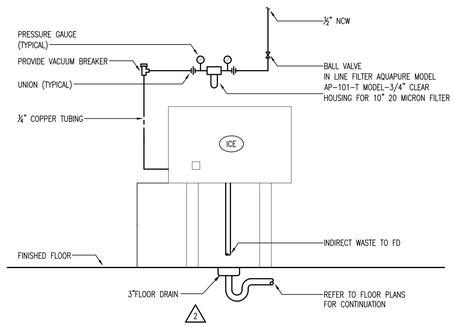
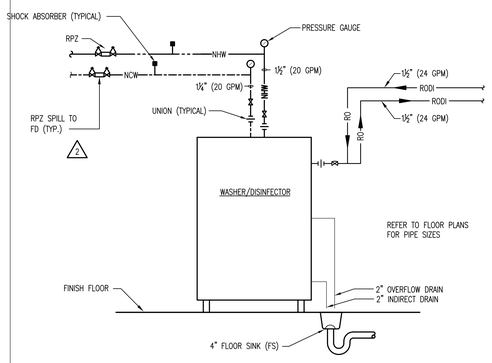


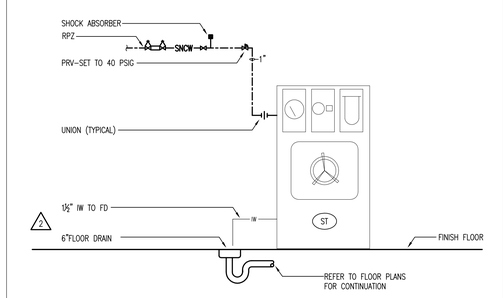
1 COMPRESSED AIR REGULATOR — NOT TO SCALE



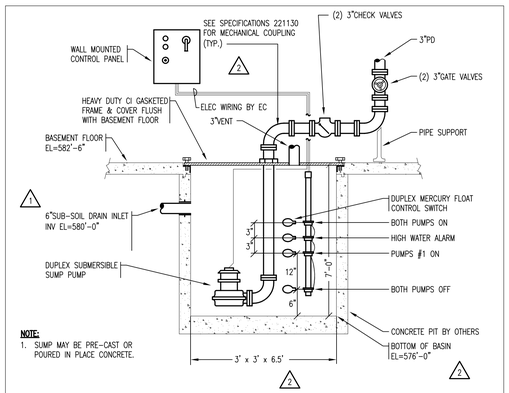
2 PIPING AT ICE MACHINE — NOT TO SCALE



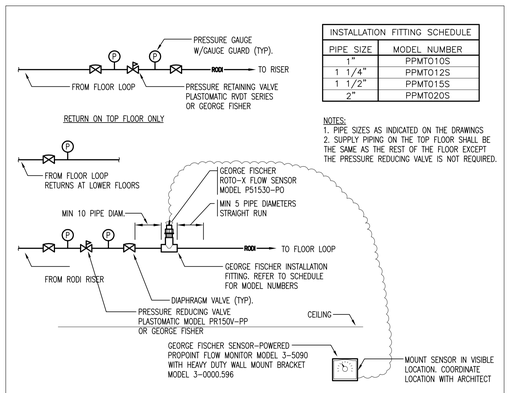
3 WASHER — NOT TO SCALE



4 STERILIZER DETAIL — NOT TO SCALE



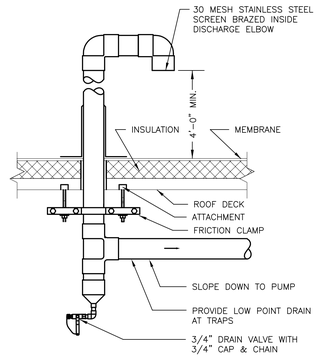
5 SUB-SOIL DRAINAGE SUMP PUMP — NOT TO SCALE



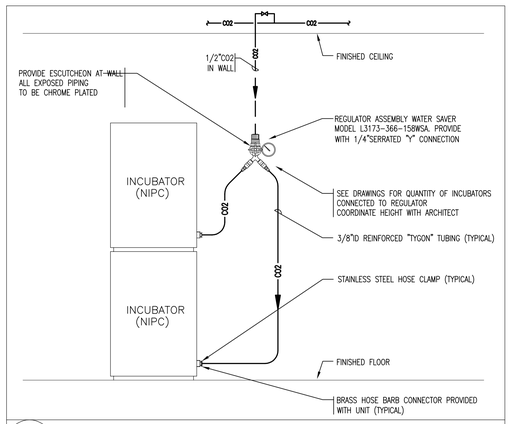
INSTALLATION FITTING SCHEDULE	
PIPE SIZE	MODEL NUMBER
1"	PPMTO10S
1 1/4"	PPMTO12S
1 1/2"	PPMTO15S
2"	PPMTO20S

NOTES:
1. PIPE SIZES AS INDICATED ON THE DRAWINGS
2. SUPPLY PIPING ON THE TOP FLOOR SHALL BE THE SAME AS THE REST OF THE FLOOR EXCEPT THE PRESSURE REDUCING VALVE IS NOT REQUIRED.

6 RODI BALANCING ASSEMBLY — NOT TO SCALE

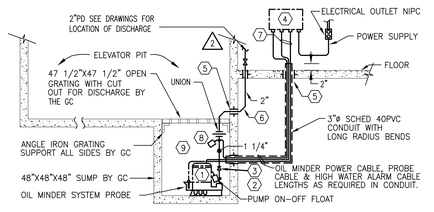


7 VACUUM EXHAUST & COMPRESSED AIR INLET THROUGH ROOF — NOT TO SCALE

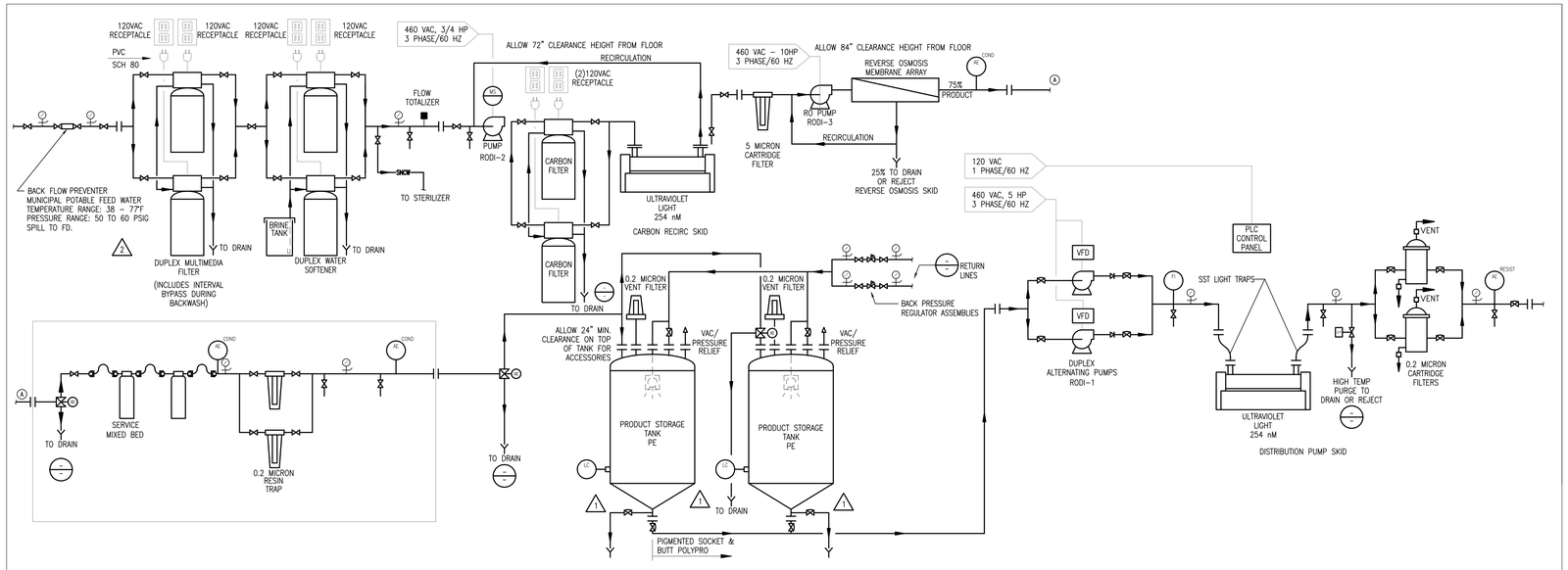


8 INCUBATOR CONNECTION DETAIL — NOT TO SCALE

1. ELEVATOR SUMP PUMP
2. BLEED HOLE 3/16ø
3. STANCOR REFLUX CHECK VALVE
4. STANCOR OIL MINDER CONTROL SYSTEM WITH OPTIONAL ALARMS, LIGHTS AND REMOTE MONITORING CIRCUIT, 115V, 1ø PANEL TO BE LOCATED IN MECHANICAL ROOM
5. WATERTIGHT SLEEVE
6. ALL BURIED PUMP PRESSURE DISCHARGE DISCHARGE PIPING SHALL BE PROTECTED WITH TAPECOAT CT CORROSION PROTECTION TAPE
7. OIL MINDER POWER AND PROBE CABLE.
8. HIGH LIQUID ALARM FLOAT WITH CLAMP DEVICE TO MOUNT TO PUMP DISHCHARGE PIPING
9. PROVIDE CABLE LENGTHS AS REQUIRED FOR EACH INSTALLATION. PROVIDE SLACK ROLLED AND CLAMPED TO THE DISCHARGEPIPE TO ALLOW FOR THE REMOVAL OF THE PUMP FROM THE PIT



9 ELEVATOR SUMP PUMP DETAIL — NOT TO SCALE



10 RODI FLOW DIAGRAM — NOT TO SCALE

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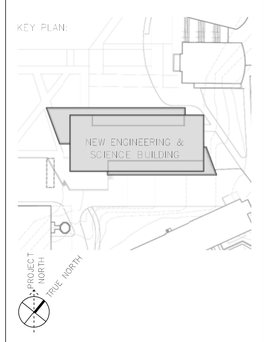

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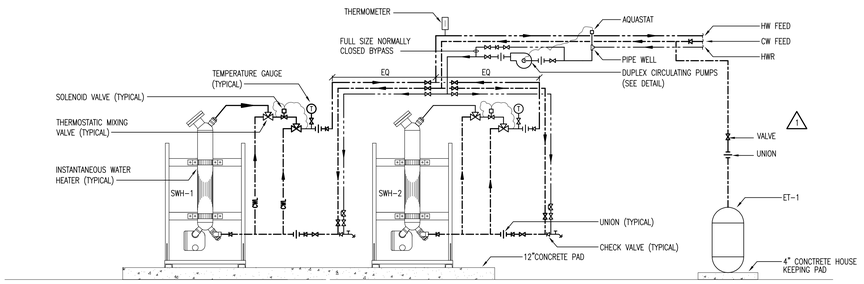
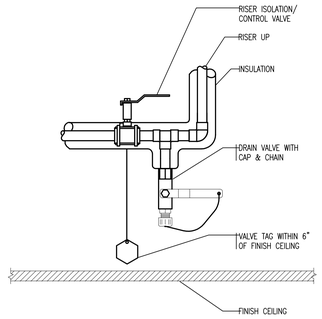
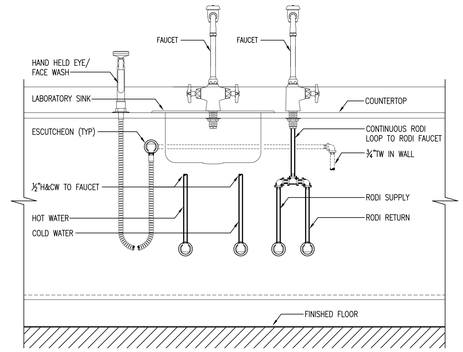


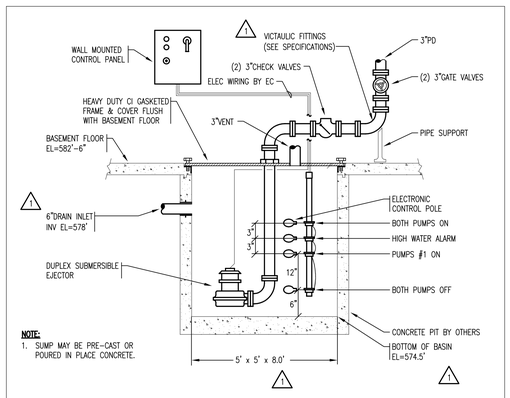
1 DUPLEX INSTANTANEOUS STEAM FIRED WATER HEATERS SWH-1&SWH-2 NOT TO SCALE



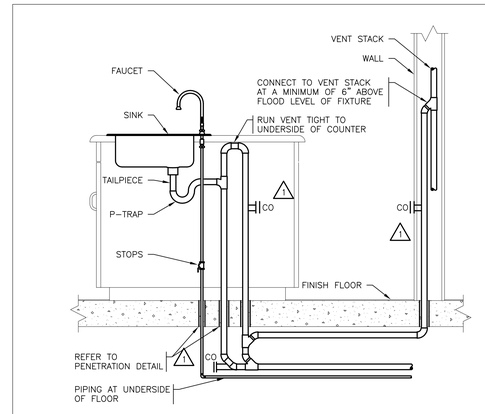
2 RISER CONTROL AND DRAIN VALVE NOT TO SCALE



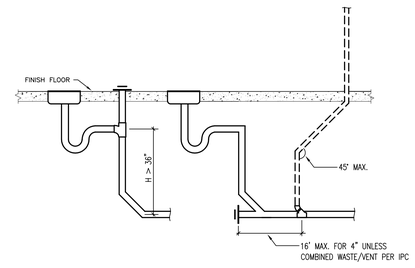
3 LABORATORY SINK WITH EYEWASH & RODI NOT TO SCALE



5 SEWAGE EJECTOR NOT TO SCALE



6 ISLAND SINK VENTING DETAIL NOT TO SCALE



7 TYPICAL FLOOR DRAIN DETAIL NOT TO SCALE

1

8

9

10

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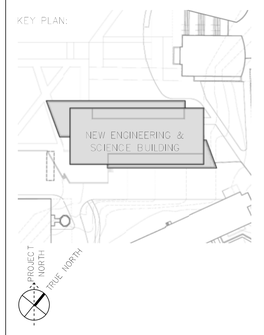

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NEW ENGINEERING AND SCIENCE BUILDING

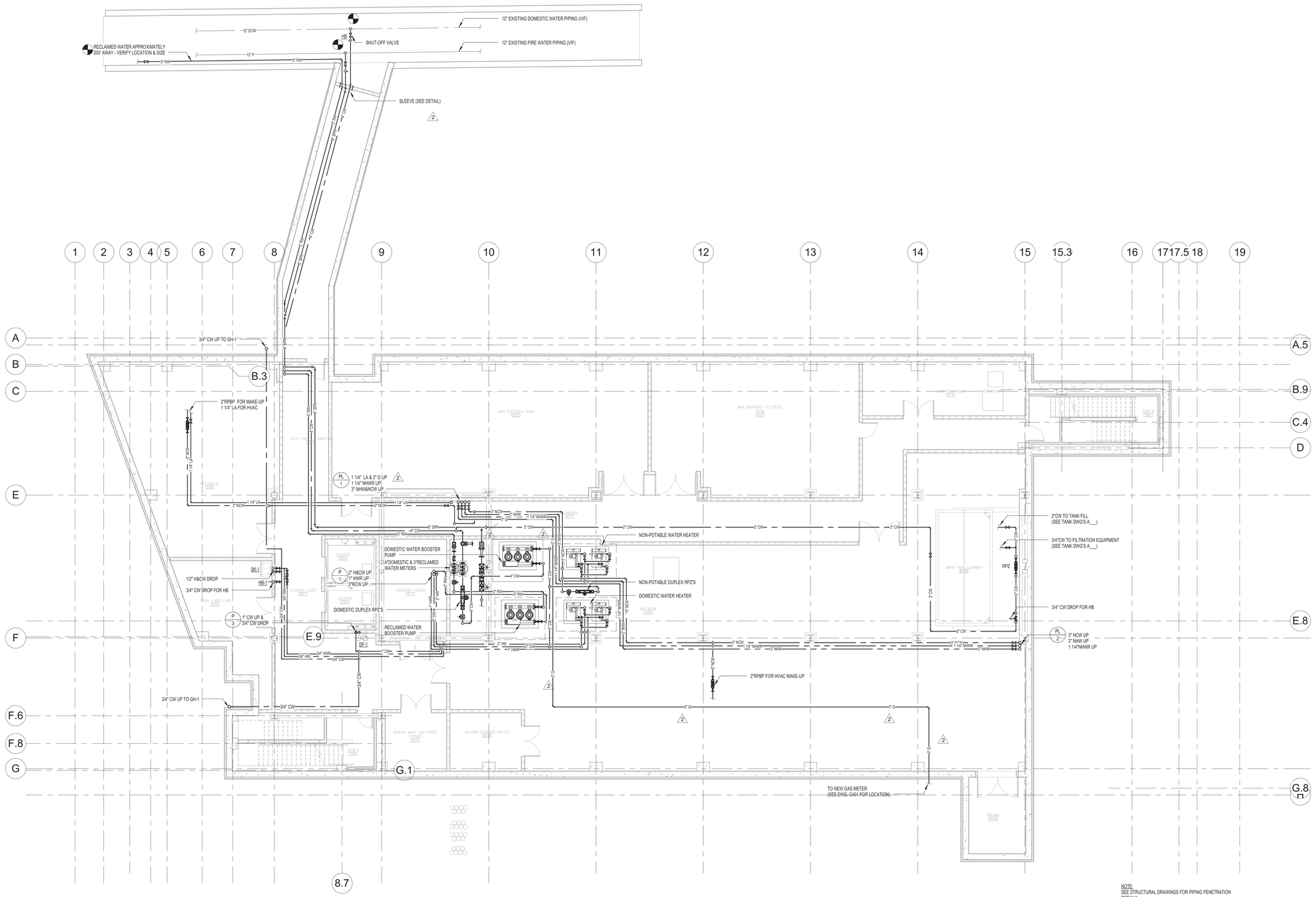
DRAWING TITLE:

PLUMBING DETAILS

CONFORMED SET: 05/29/2015

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: NTS

P0.05



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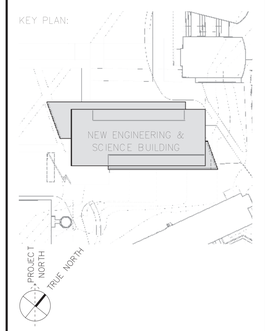


PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

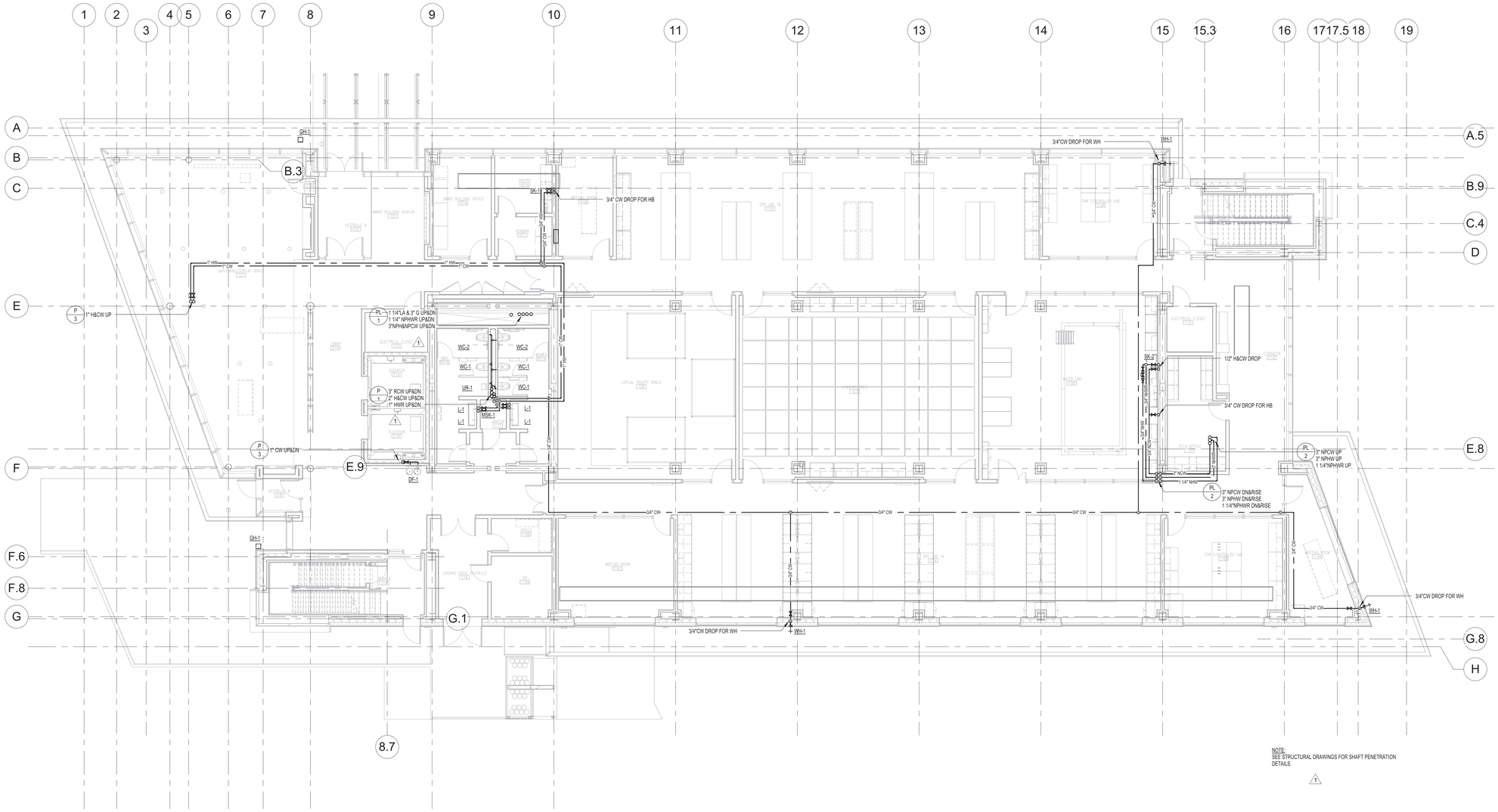
DRAWING TITLE:

PLUMBING SUPPLY BASEMENT FLOOR PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

P1.00

CONFORMED SET: 05/29/2015



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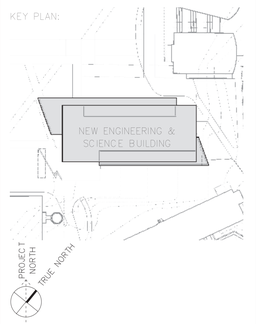


PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

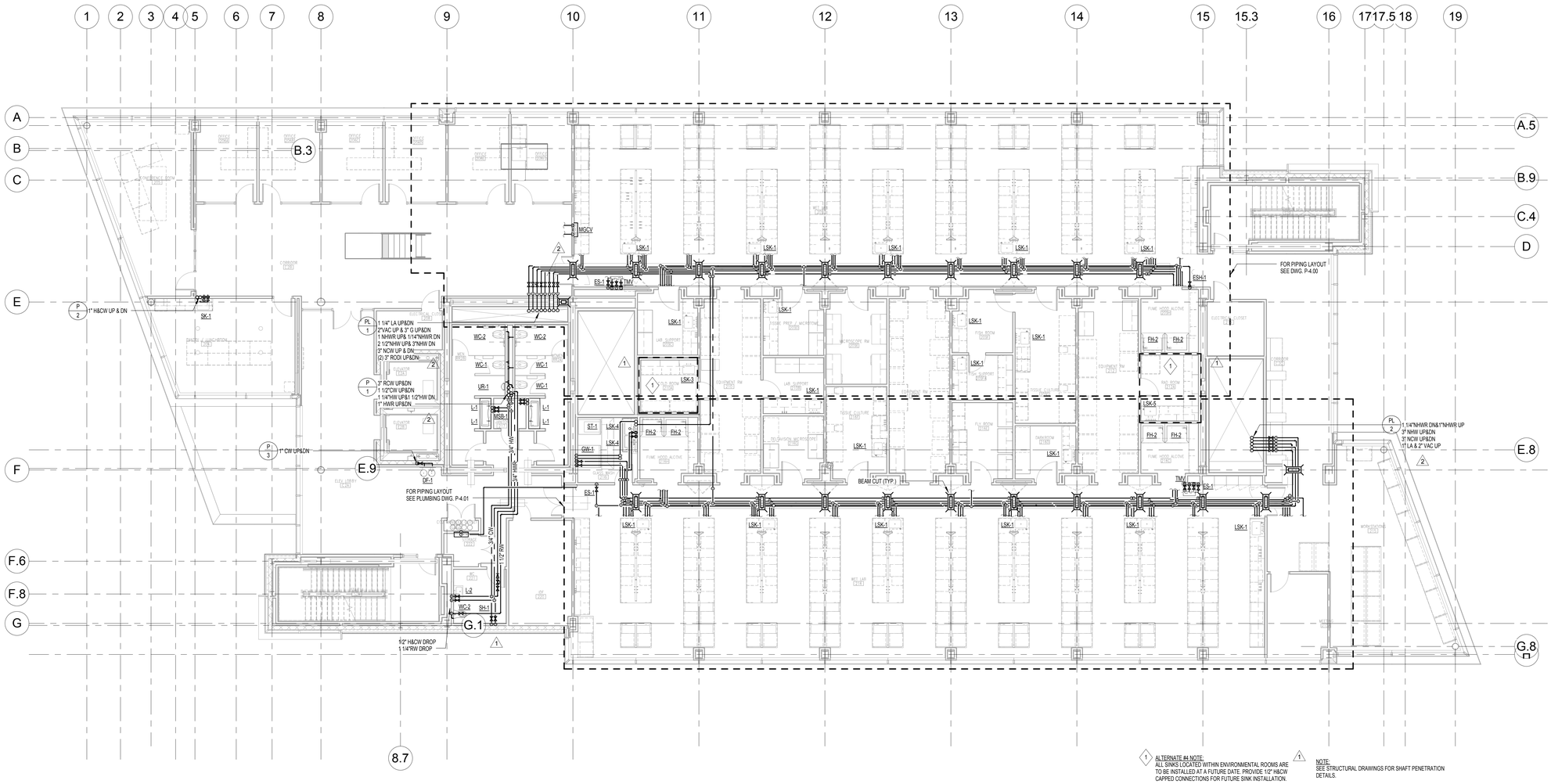
DRAWING TITLE:

PLUMBING SUPPLY FIRST FLOOR PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

P1.01

CONFORMED SET: 05/29/2015



1 ALTERNATE #4 NOTE:
ALL SINKS LOCATED WITHIN ENVIRONMENTAL ROOMS ARE TO BE INSTALLED AT A FUTURE DATE. PROVIDE 1/2" H&CW CAPPED CONNECTIONS FOR FUTURE SINK INSTALLATION.

1 NOTE:
SEE STRUCTURAL DRAWINGS FOR SHAFT PENETRATION DETAILS.

2

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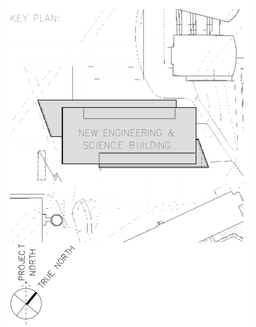


PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

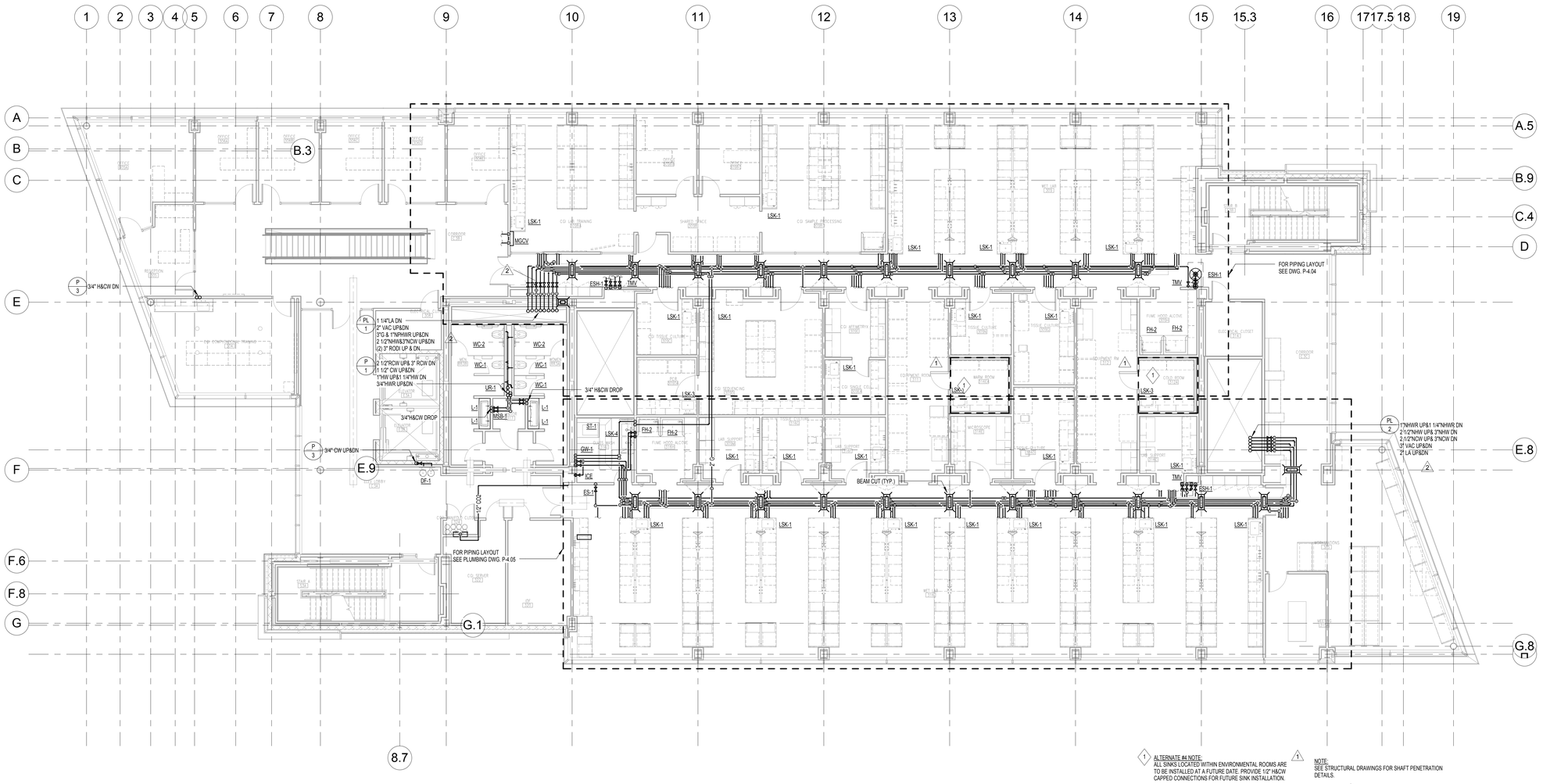
DRAWING TITLE:

PLUMBING SUPPLY SECOND FLOOR PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

P1.02

CONFORMED SET: 05/29/2015



1 ALTERNATE #4 NOTE:
ALL SINKS LOCATED WITHIN ENVIRONMENTAL ROOMS ARE TO BE INSTALLED AT A FUTURE DATE. PROVIDE 1/2" H&CW CAPPED CONNECTIONS FOR FUTURE SINK INSTALLATION.

1 NOTE:
SEE STRUCTURAL DRAWINGS FOR SHAFT PENETRATION DETAILS.

2

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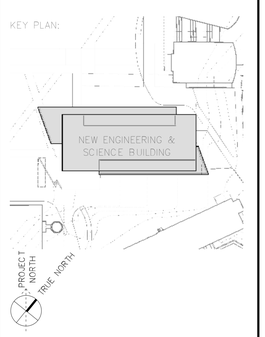


PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

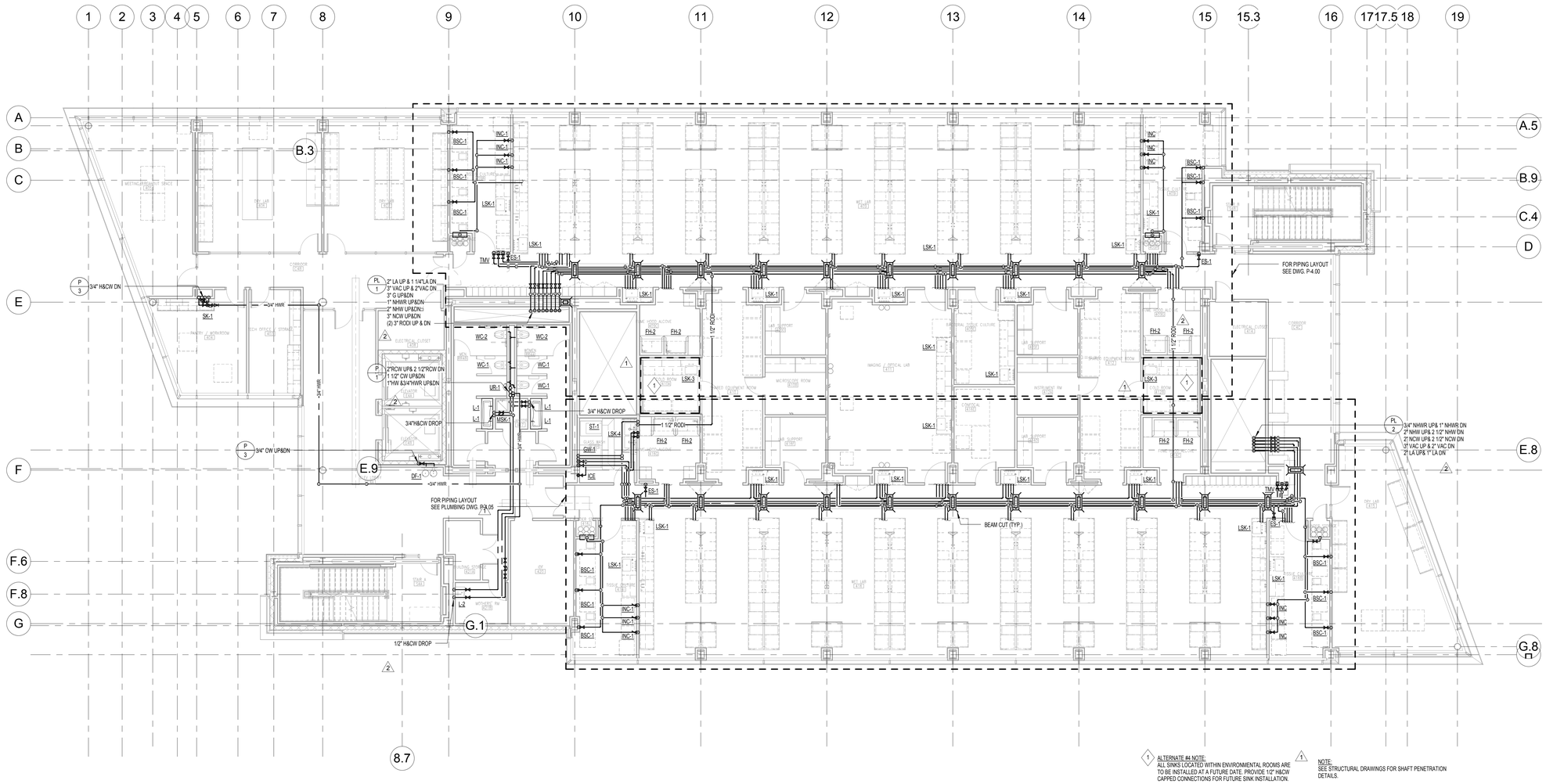
DRAWING TITLE:

PLUMBING SUPPLY THIRD FLOOR PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

P1.03

CONFORMED SET: 05/29/2015



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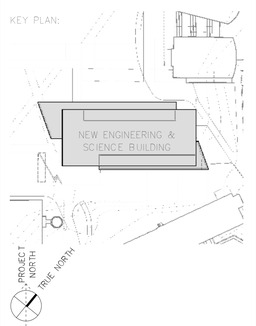


PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

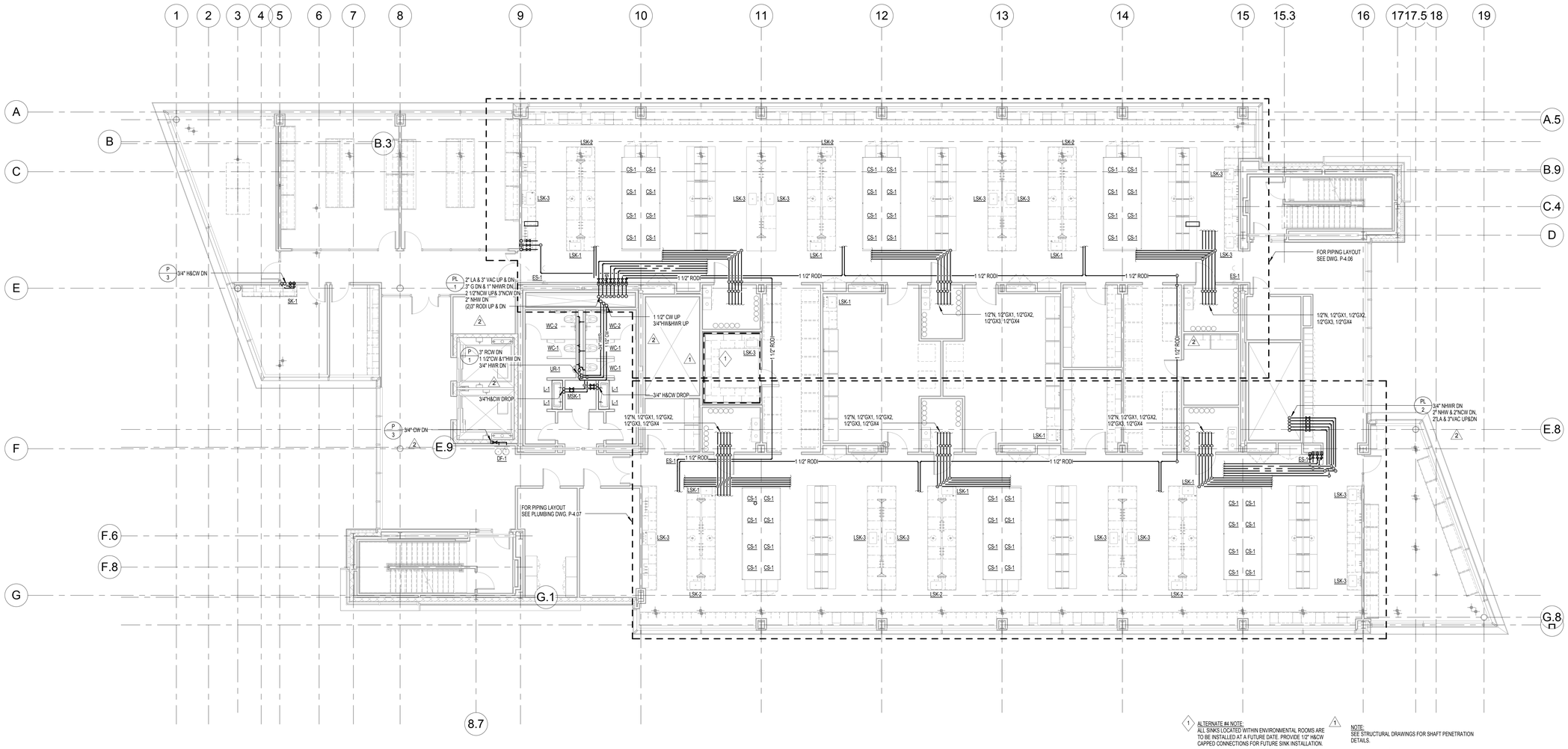
DRAWING TITLE:

PLUMBING SUPPLY FOURTH FLOOR PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

P1.04

CONFORMED SET: 05/29/2015



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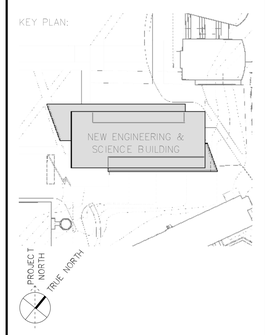


PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

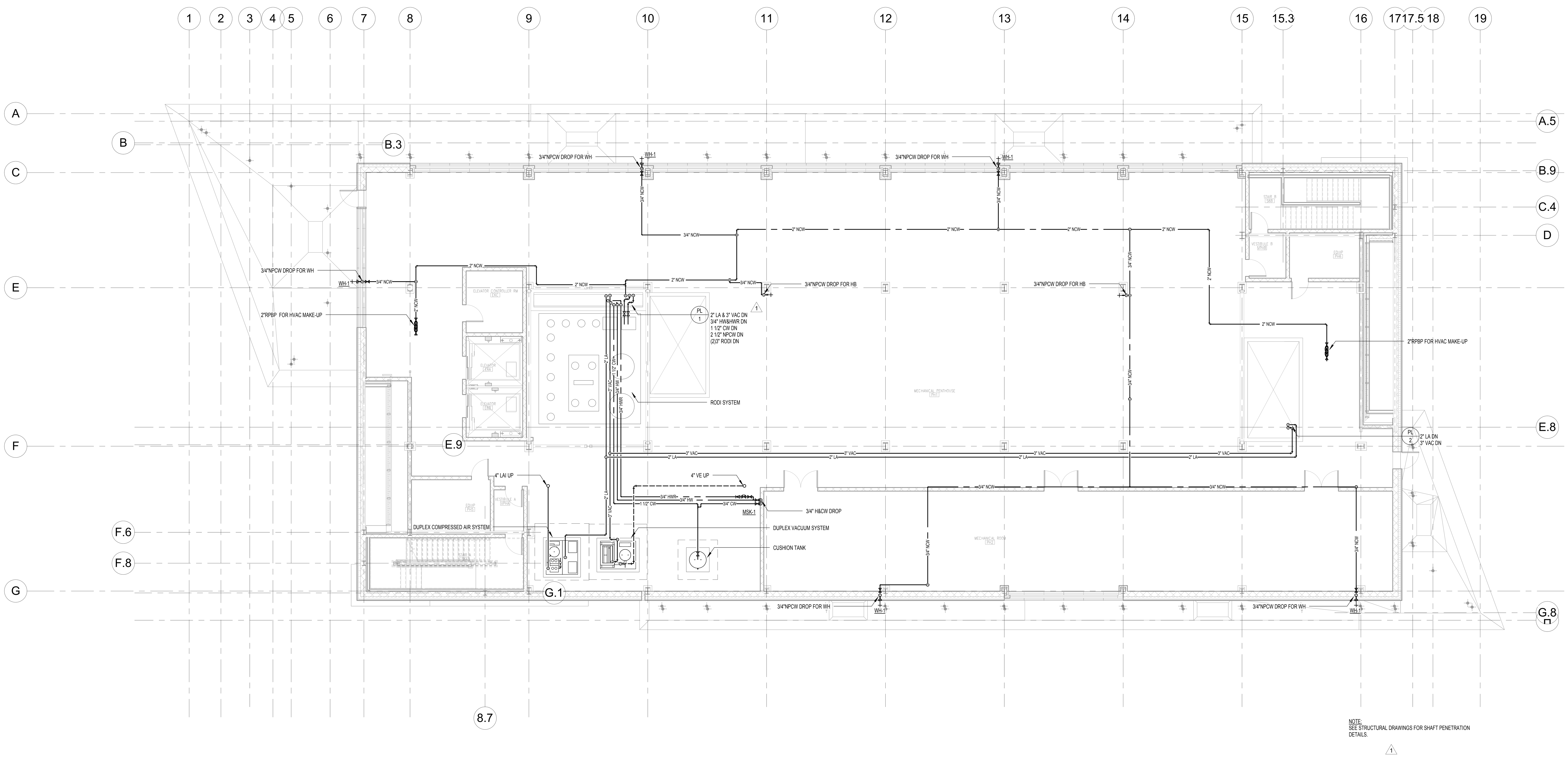
DRAWING TITLE:

PLUMBING SUPPLY FIFTH FLOOR PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

P1.05

CONFORMED SET: 05/29/2015



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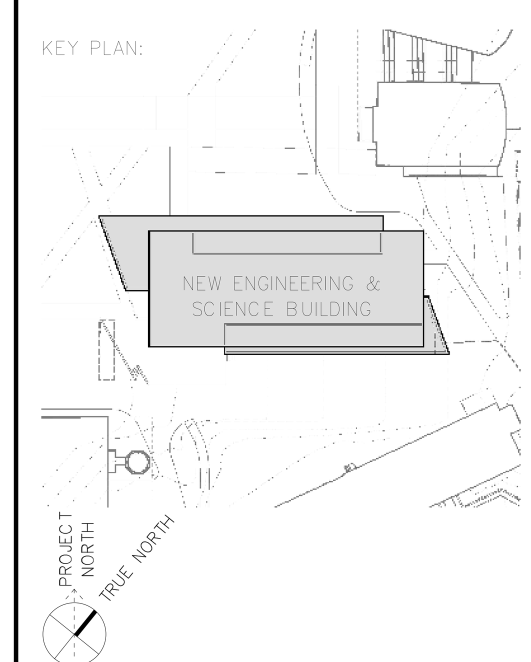


PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

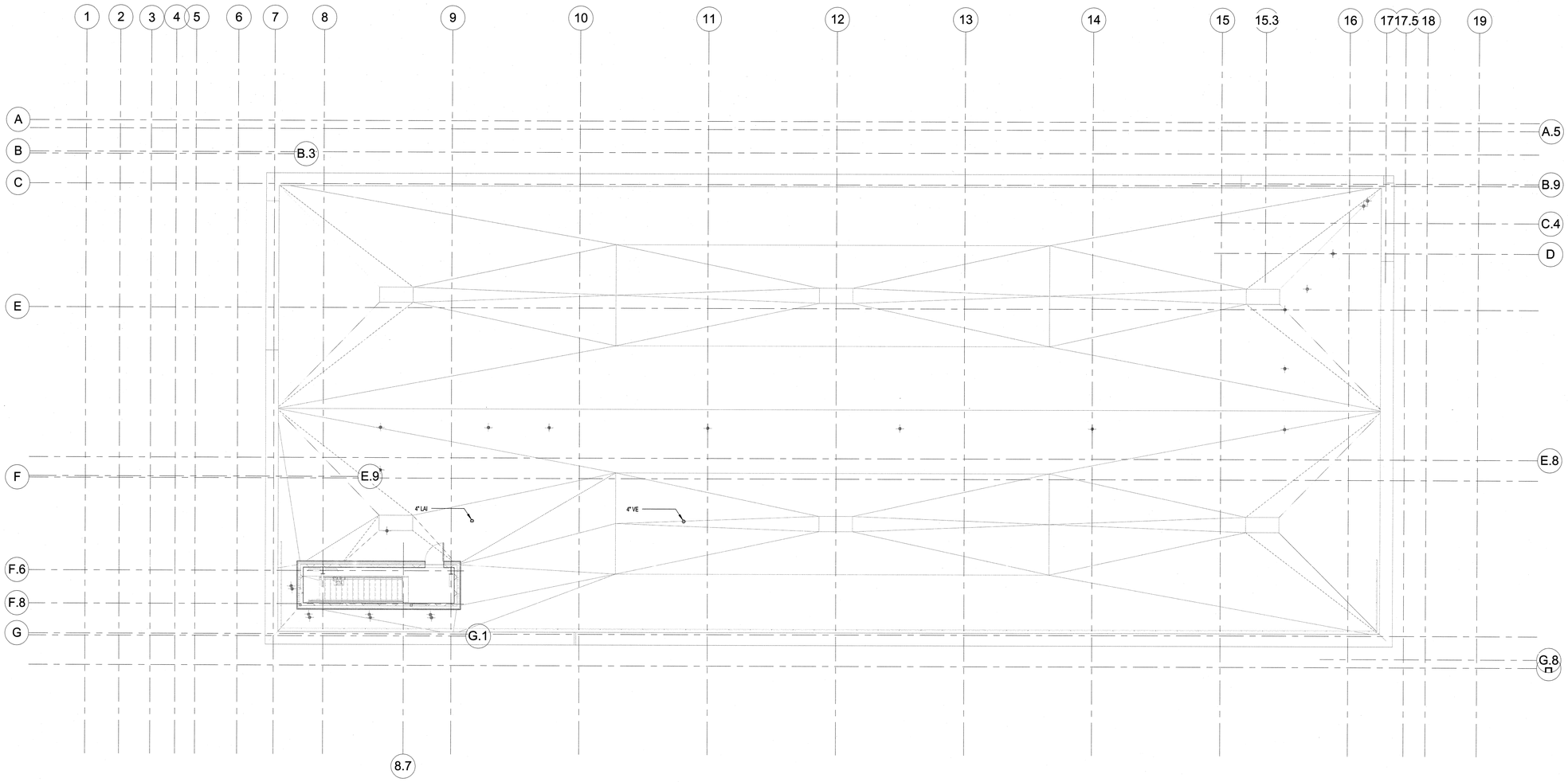
DRAWING TITLE:

PLUMBING SUPPLY PENTHOUSE PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

P1.06

CONFORMED SET: 05/29/2015



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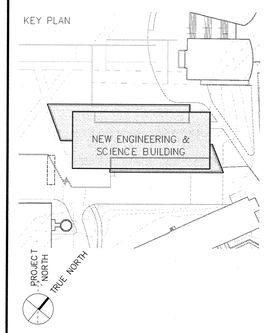
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

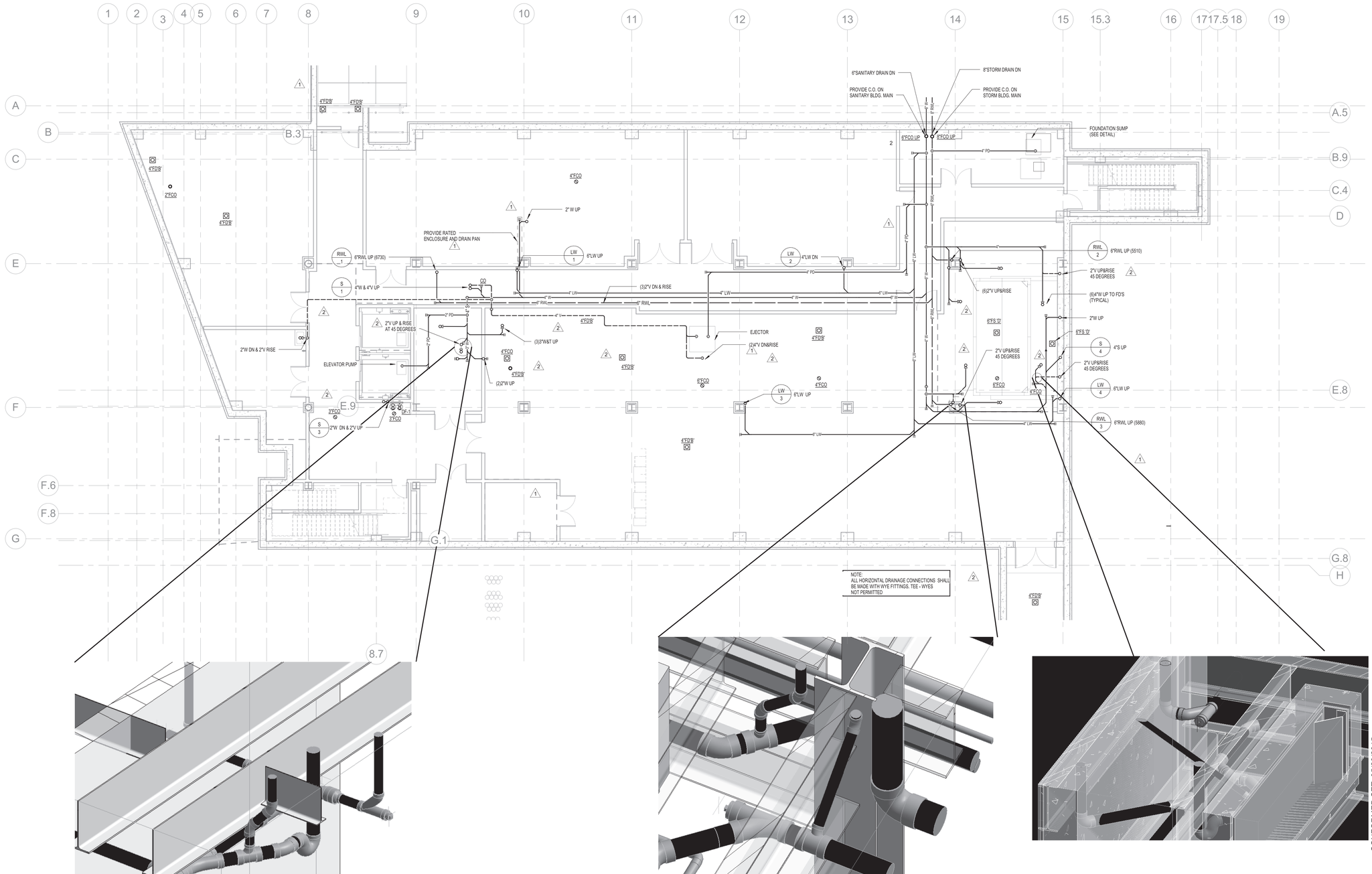
Drawing Title:

PLUMBING SUPPLY ROOF PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

CONFORMED SET: 05/29/2015

P1.07



CONFORMED SET: 05/29/2015

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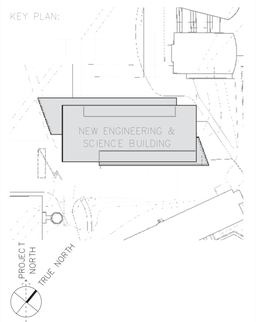


PROJECT:

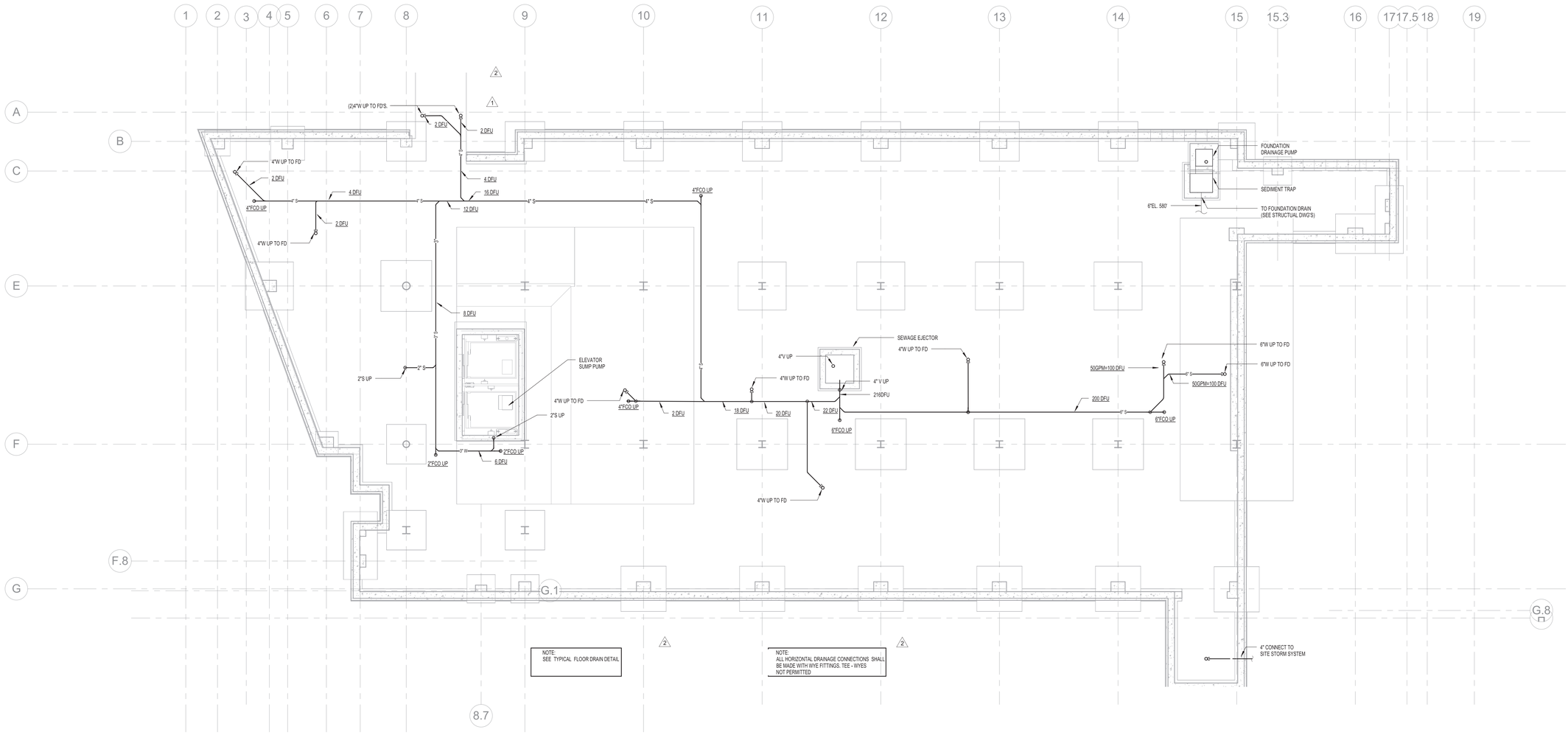
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:

PLUMBING DRAINAGE BASEMENT FLOOR PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

P2.00



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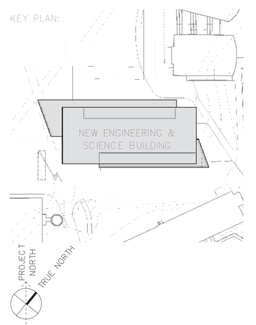


PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

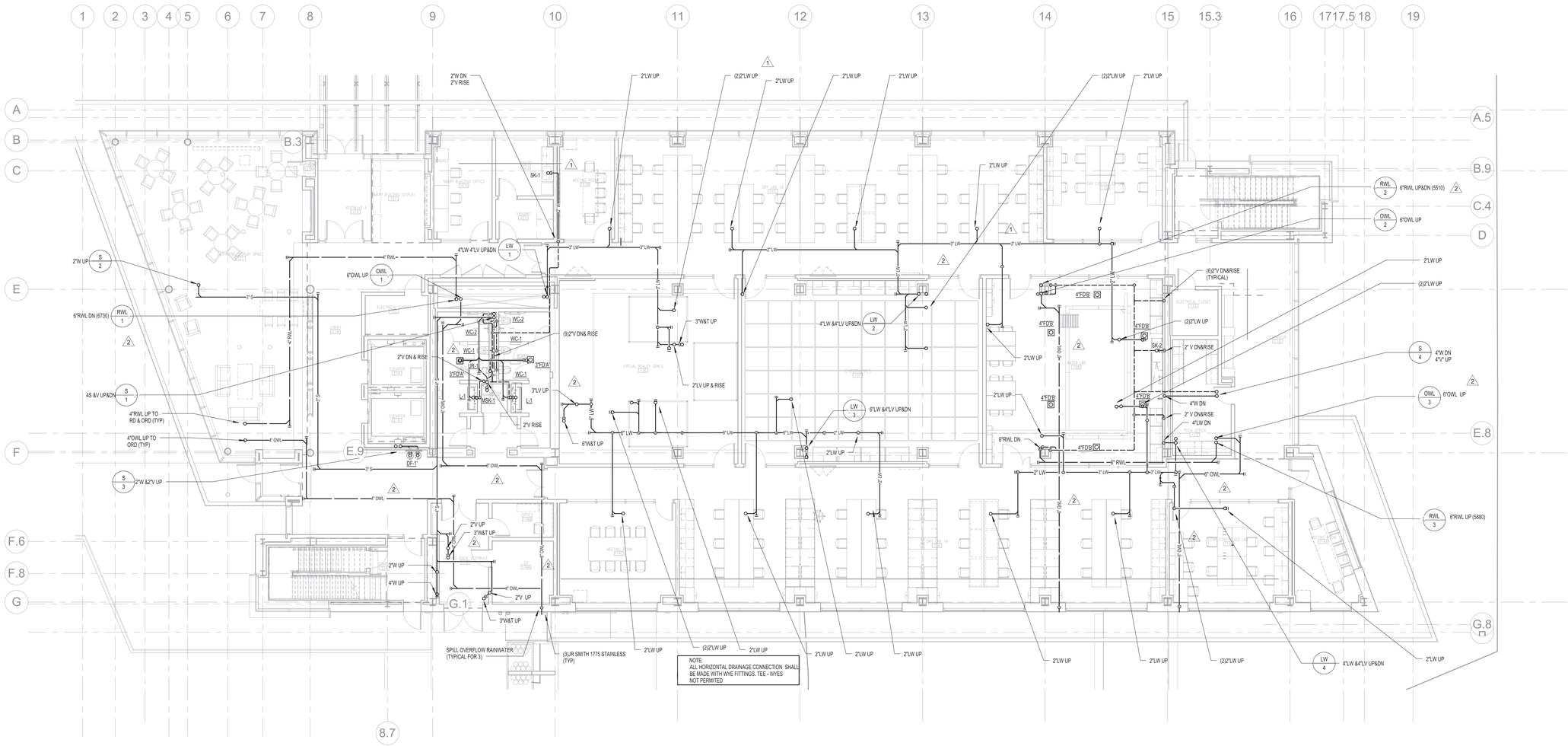
DRAWING TITLE:

PLUMBING DRAINAGE UNDERGROUND PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

P2.00U

CONFORMED SET: 05/29/2015



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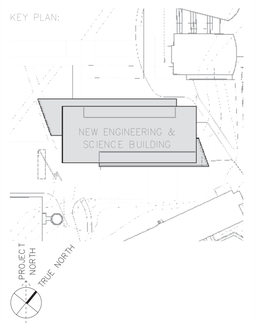


PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

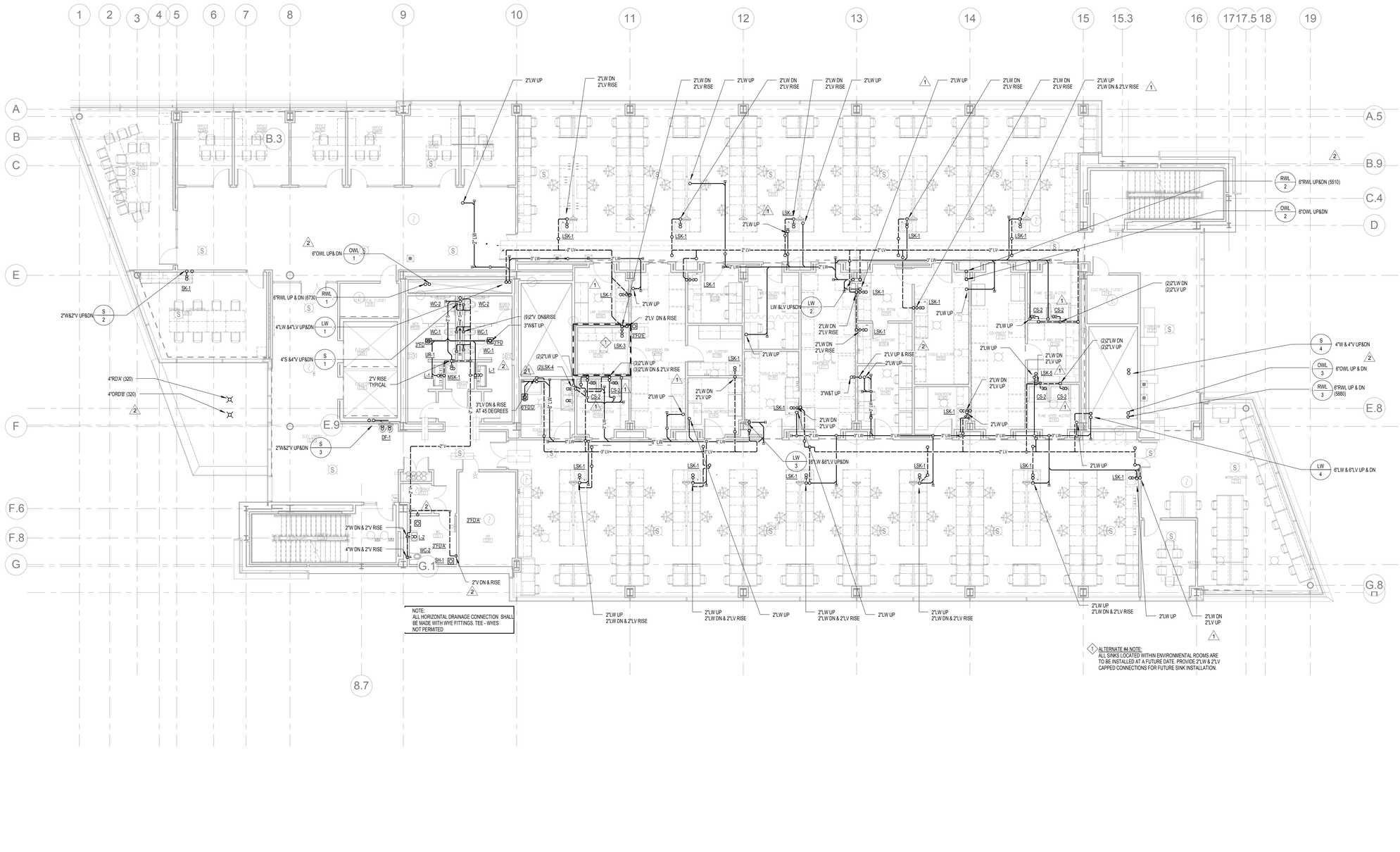
DRAWING TITLE:

PLUMBING DRAINAGE FIRST FLOOR PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

P2.01

CONFORMED SET: 05/29/2015



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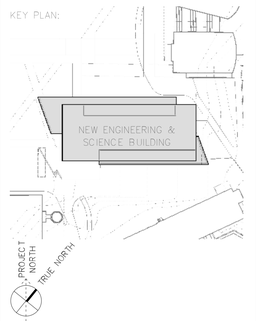
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

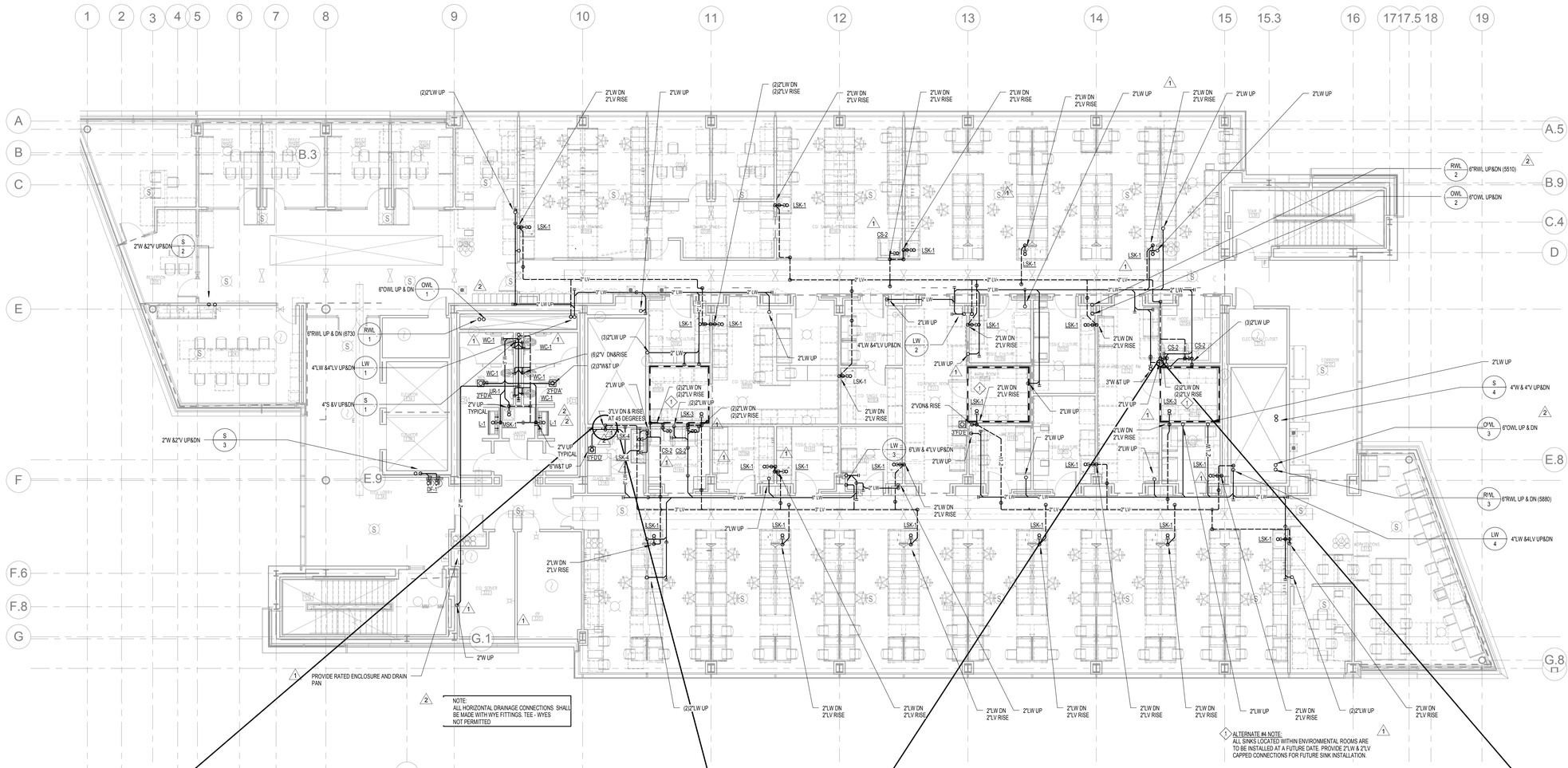
DRAWING TITLE:

PLUMBING DRAINAGE SECOND FLOOR PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

P2.02

CONFORMED SET: 05/29/2015



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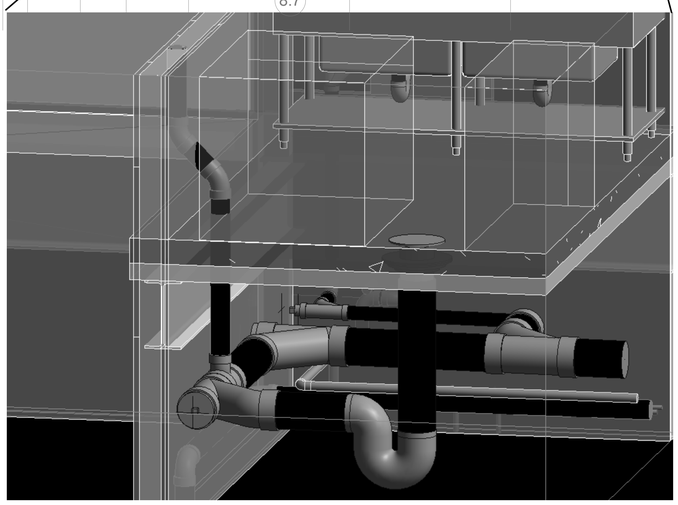

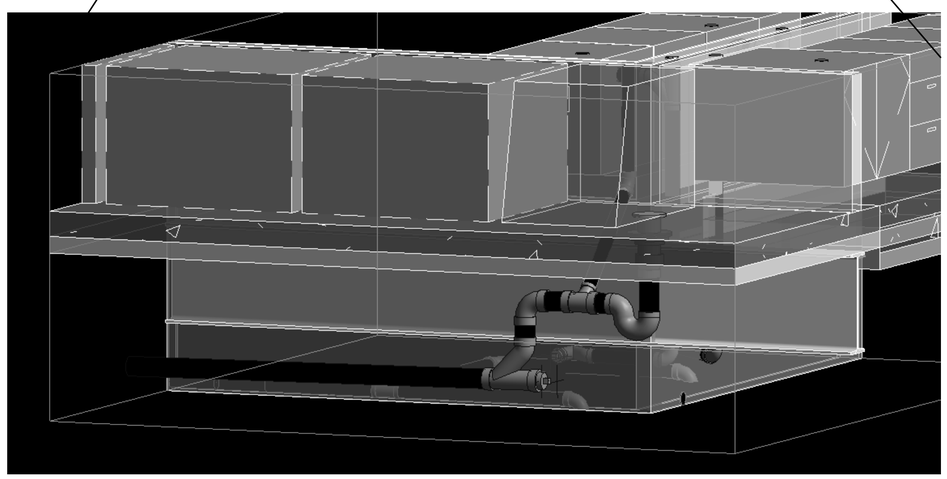

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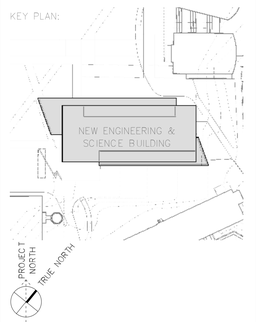
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

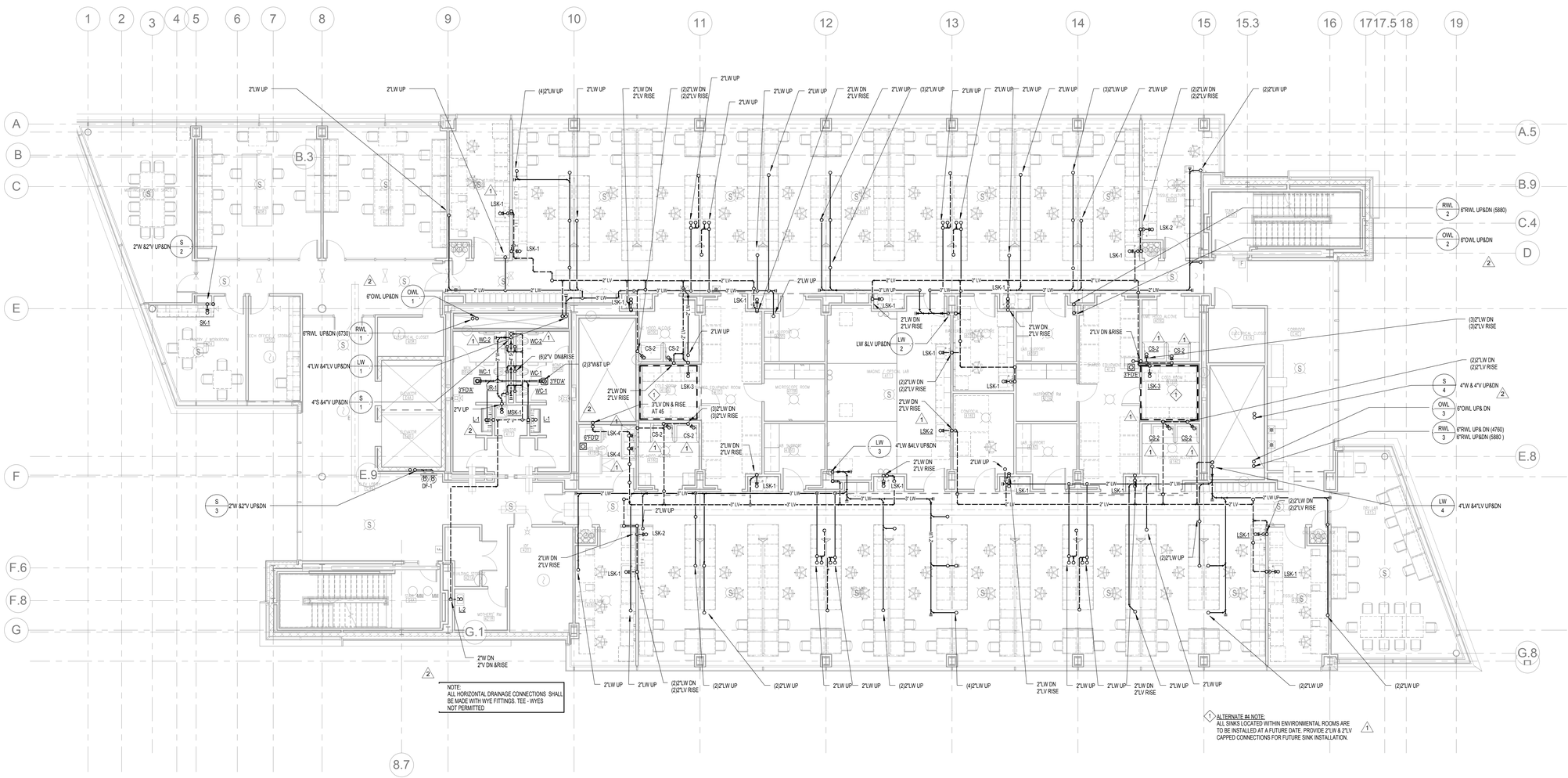
DRAWING TITLE:

PLUMBING DRAINAGE THIRD FLOOR PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

P2.03

CONFORMED SET: 05/29/2015



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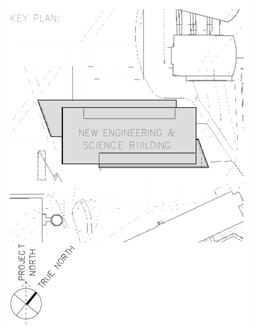


PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

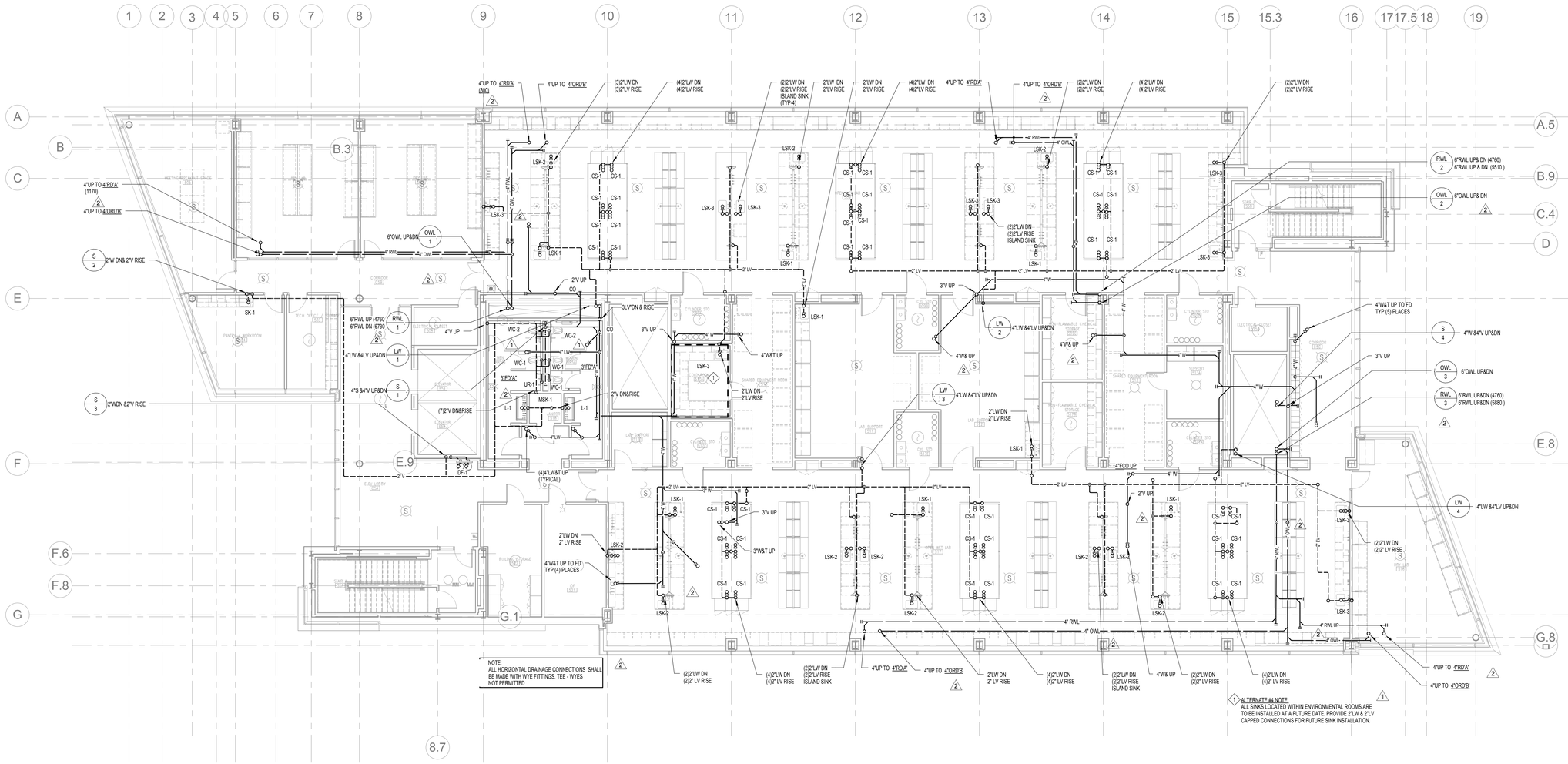
DRAWING TITLE:

PLUMBING DRAINAGE FOURTH FLOOR PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

P2.04

CONFORMED SET: 05/29/2015



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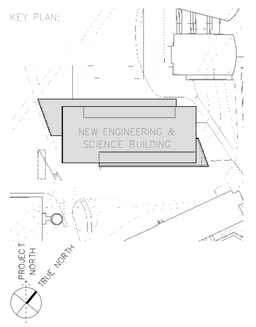
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

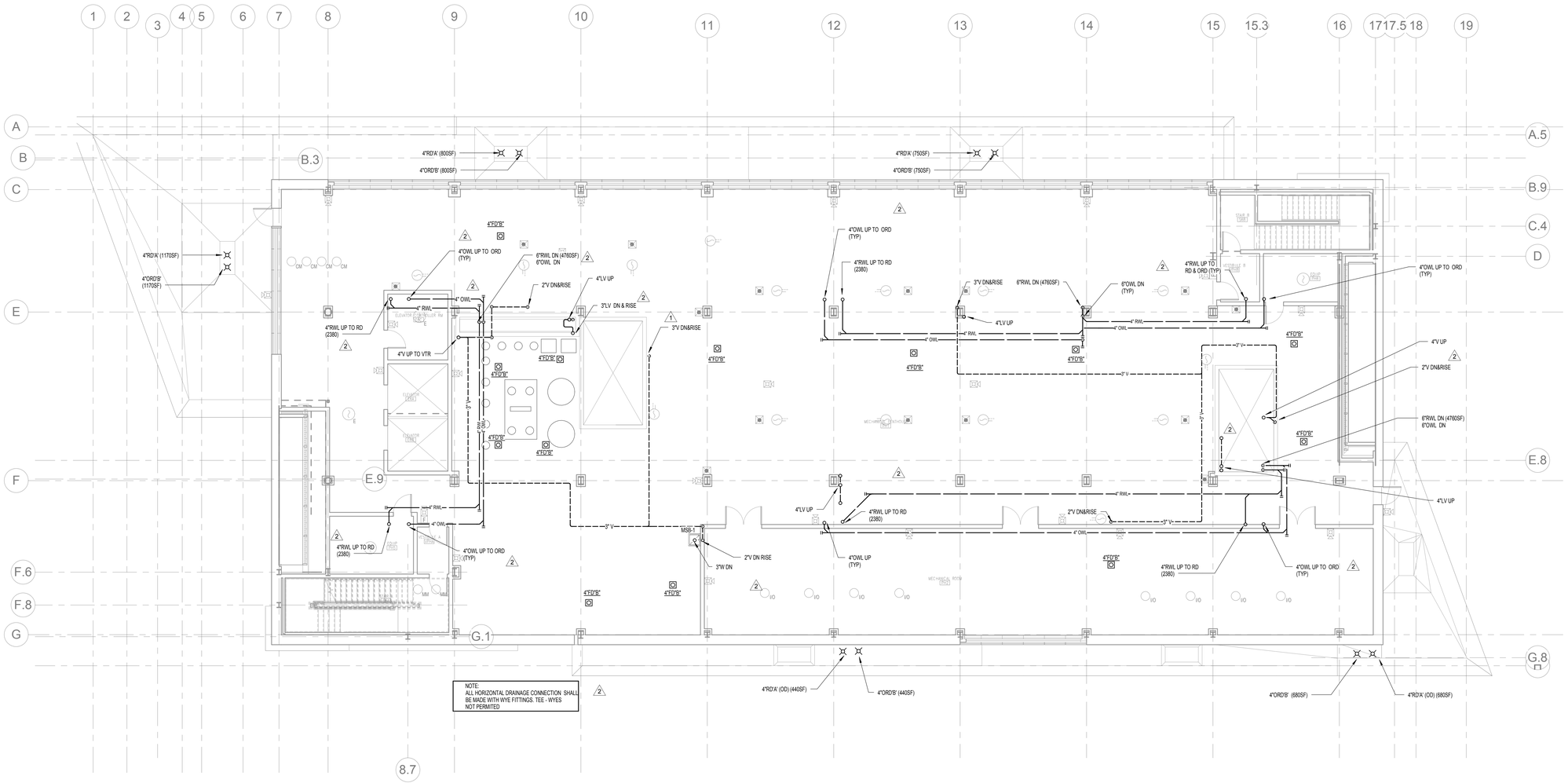
DRAWING TITLE:

PLUMBING DRAINAGE PLAN FIFTH FLOOR

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

P2.05

CONFORMED SET: 05/29/2015



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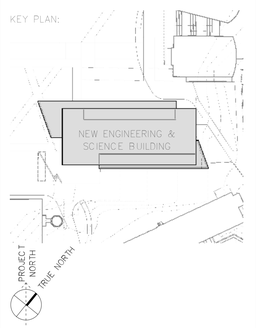


PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

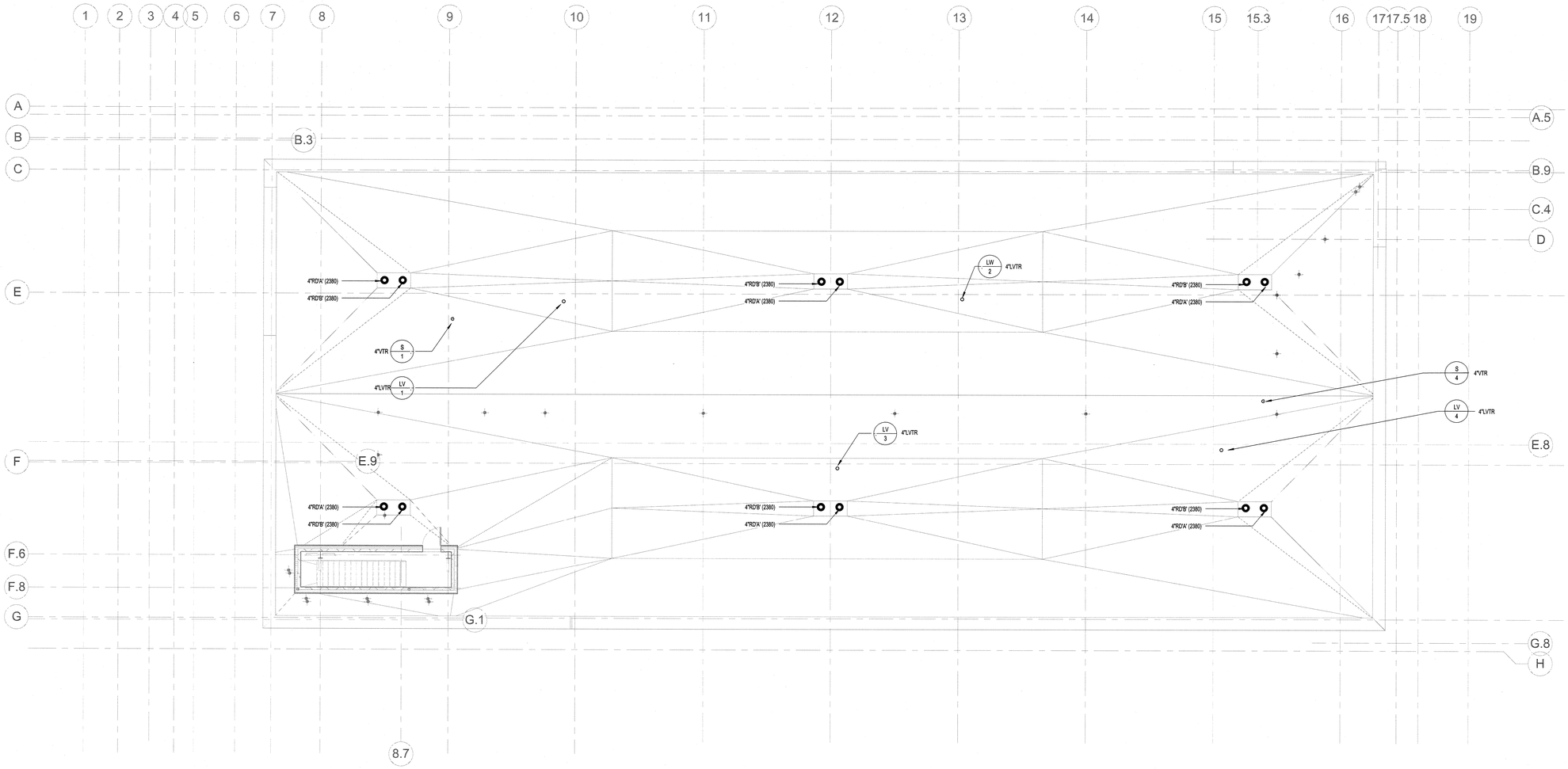
DRAWING TITLE:

PLUMBING DRAINAGE PENTHOUSE PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

P2.06

CONFORMED SET: 05/29/2015



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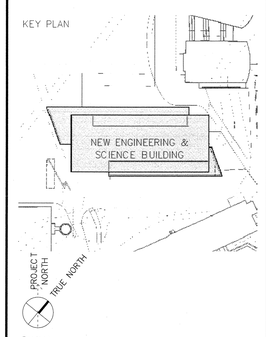


Project:

NEW ENGINEERING AND SCIENCE BUILDING

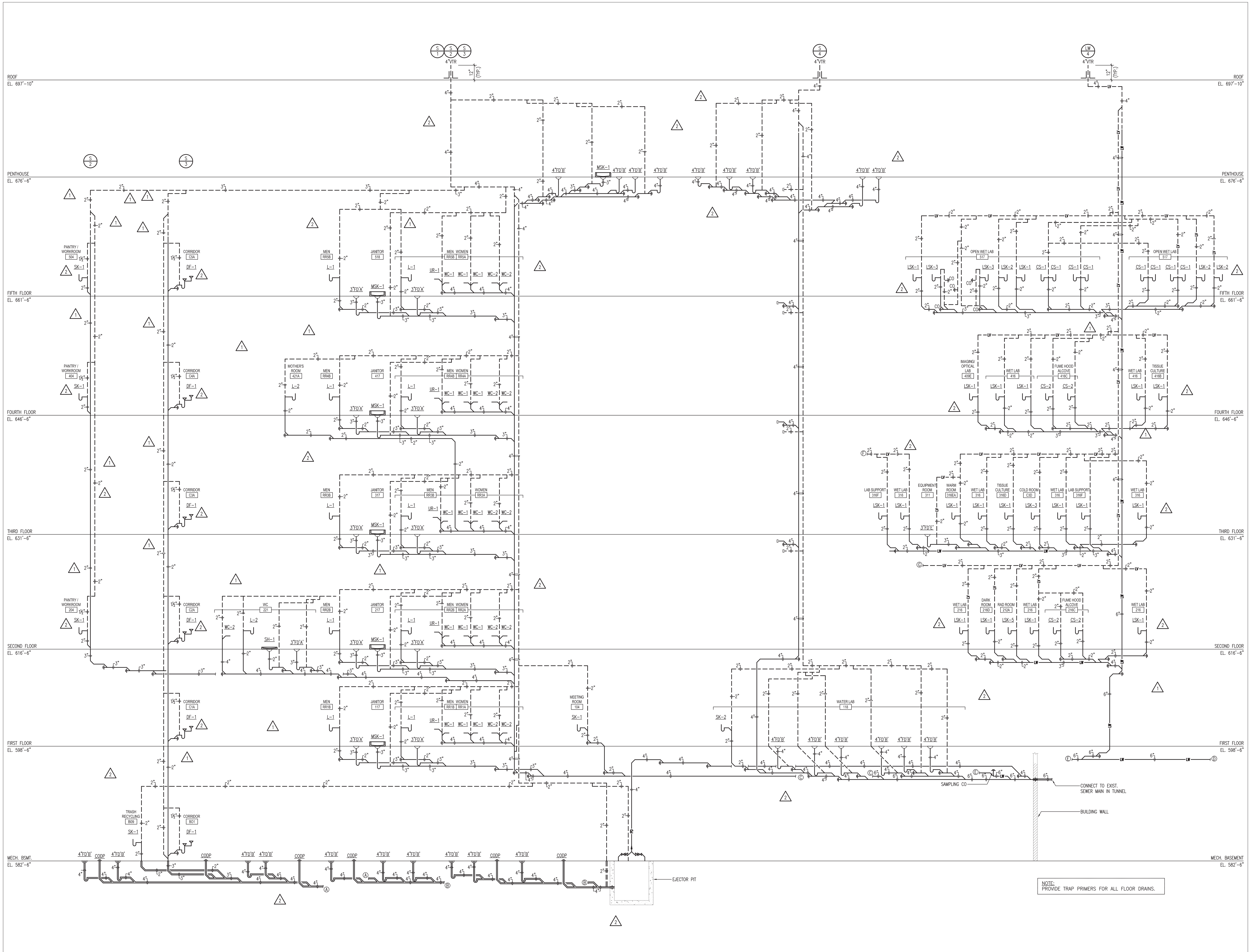
Drawing Title:

PLUMBING DRAINAGE ROOF PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

P2.07

CONFORMED SET: 05/29/2015



1 SANITARY AND LABORATORY WASTE RISER DIAGRAMS

NOT TO SCALE

UNIVERSITY OF CONNECTICUT

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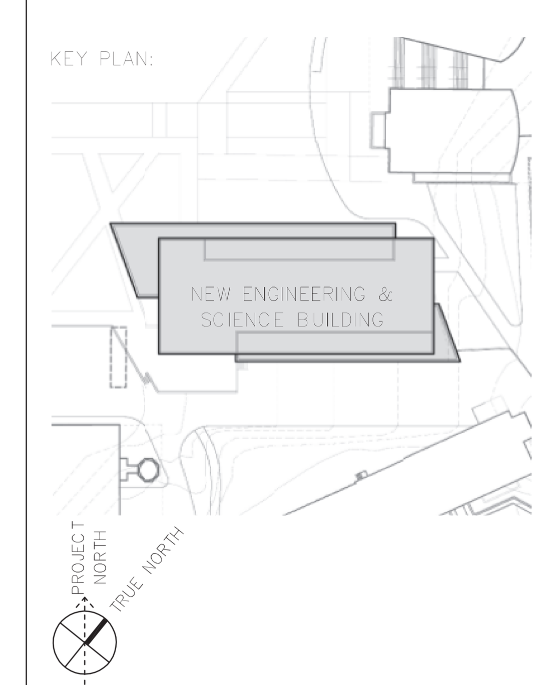
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

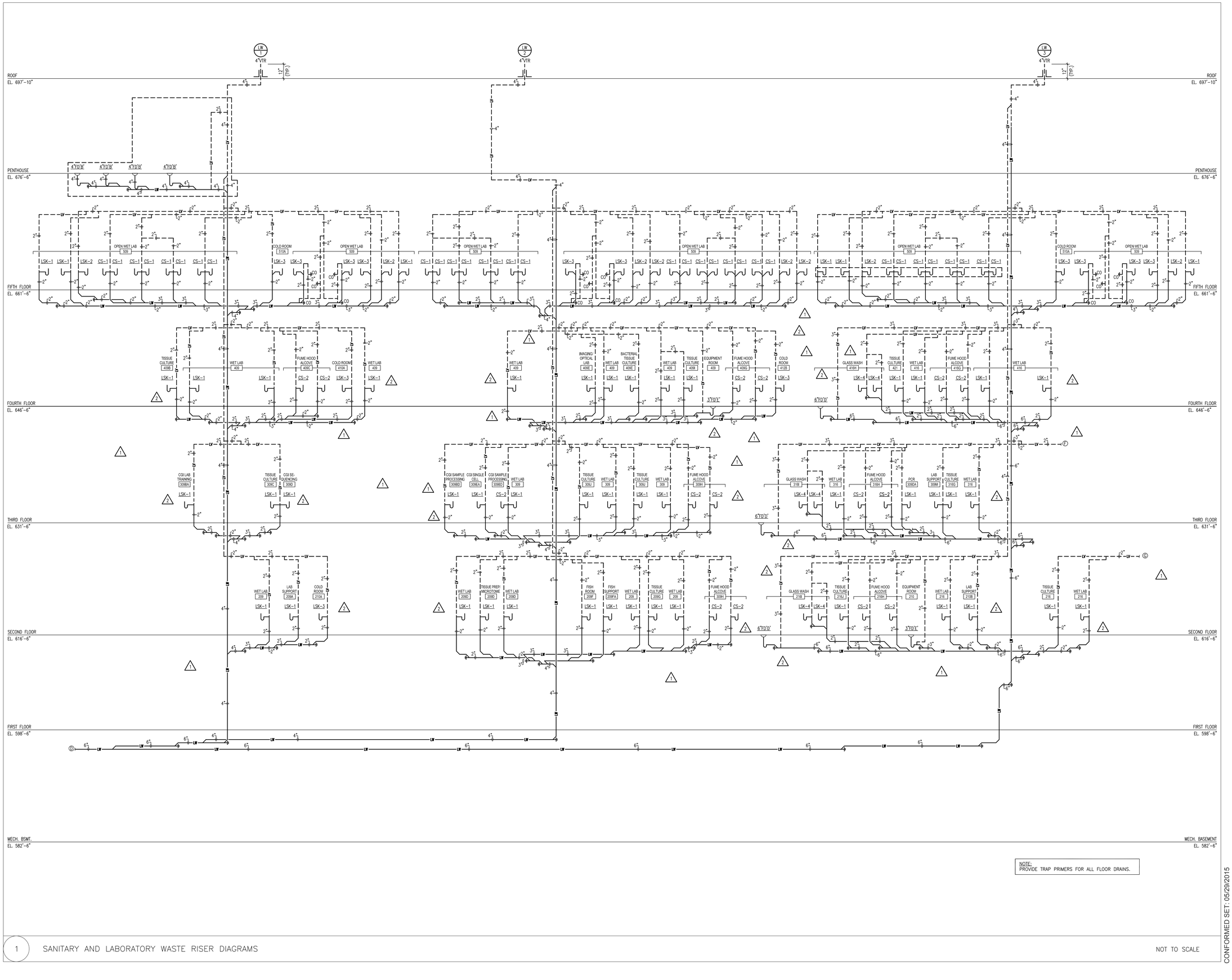
DRAWING TITLE:

SANITARY AND LABORATORY WASTE RISER DIAGRAMS

CONFORMED SET: 05/29/2015

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: NTS

P3.00



NOTE:
PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS.

1 SANITARY AND LABORATORY WASTE RISER DIAGRAMS

NOT TO SCALE

CONFORMED SET: 05/29/2015

UNIVERSITY OF CONNECTICUT

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KEY PLAN:

PROJECT:

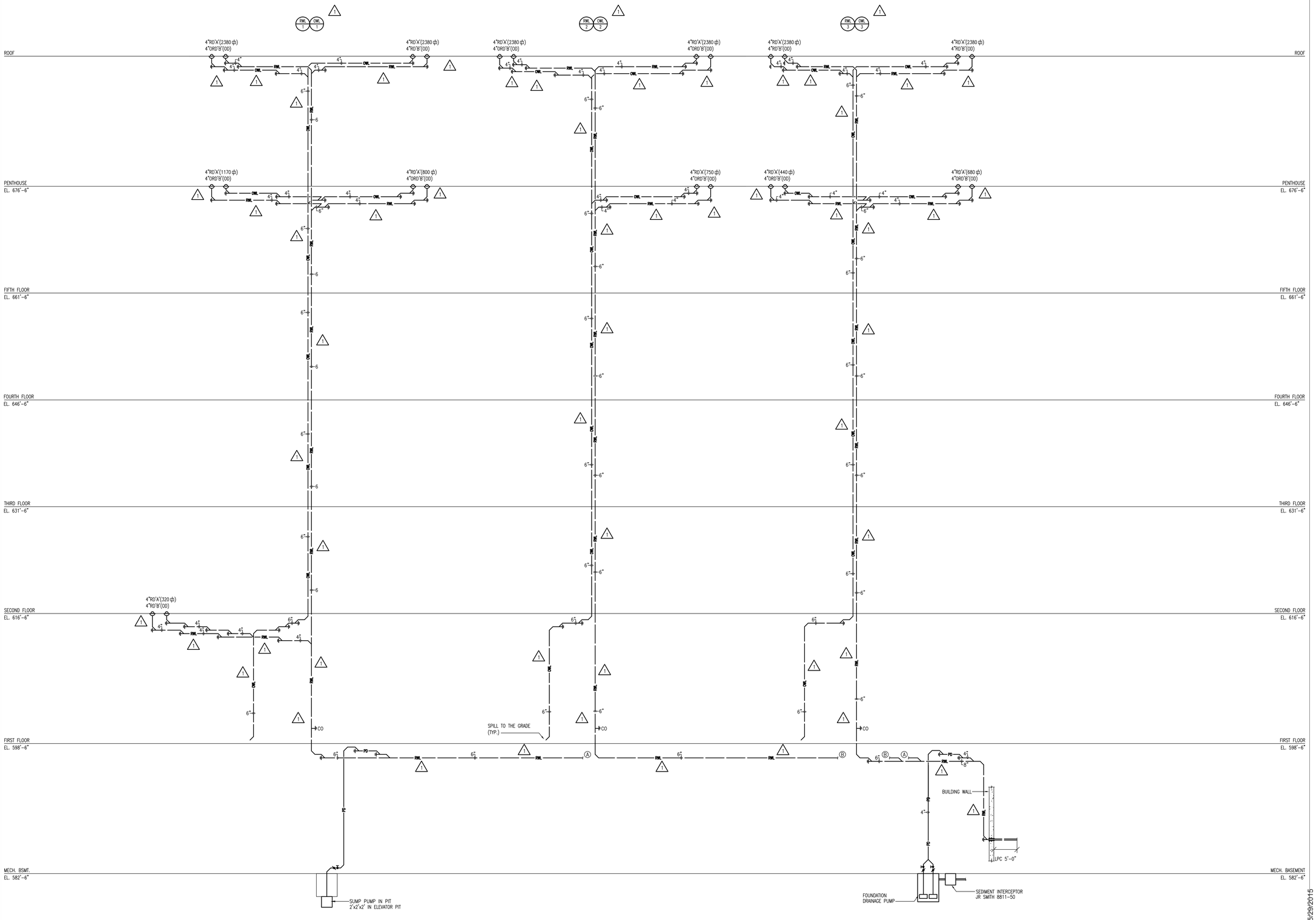
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:

SANITARY AND LABORATORY WASTE RISER DIAGRAMS

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: NTS

P3.01



1 RAINWATER RISER DIAGRAM

NOT TO SCALE

CONFORMED SET: 05/29/2015

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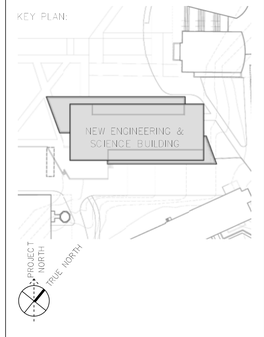

PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:

RAINWATER RISER DIAGRAM

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: NTS

P3.02

1 DOMESTIC AND NON-POTABLE WATER RISER DIAGRAM

NOT TO SCALE

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KEY PLAN:

PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

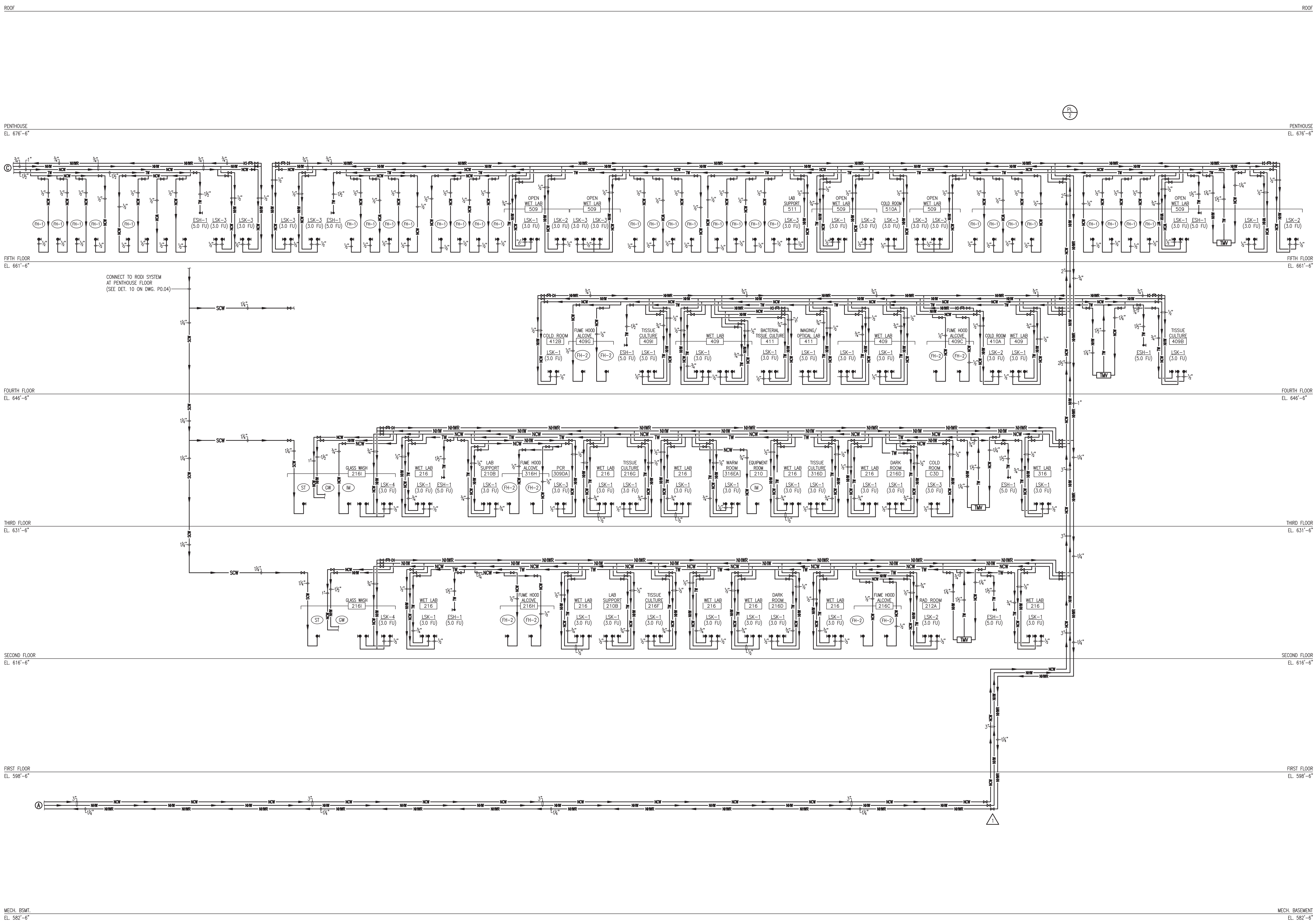
DRAWING TITLE:

DOMESTIC AND NON-POTABLE WATER RISER DIAGRAM

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: NTS

CONFORMED SET

P3.03



NOTE:
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1 DOMESTIC AND NON-POTABLE WATER RISER DIAGRAM

NOT TO SCALE

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NO.	DATE	COMMENTS
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KEY PLAN:

NEW ENGINEERING & SCIENCE BUILDING

PROJECT NORTH
TRUE NORTH

PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

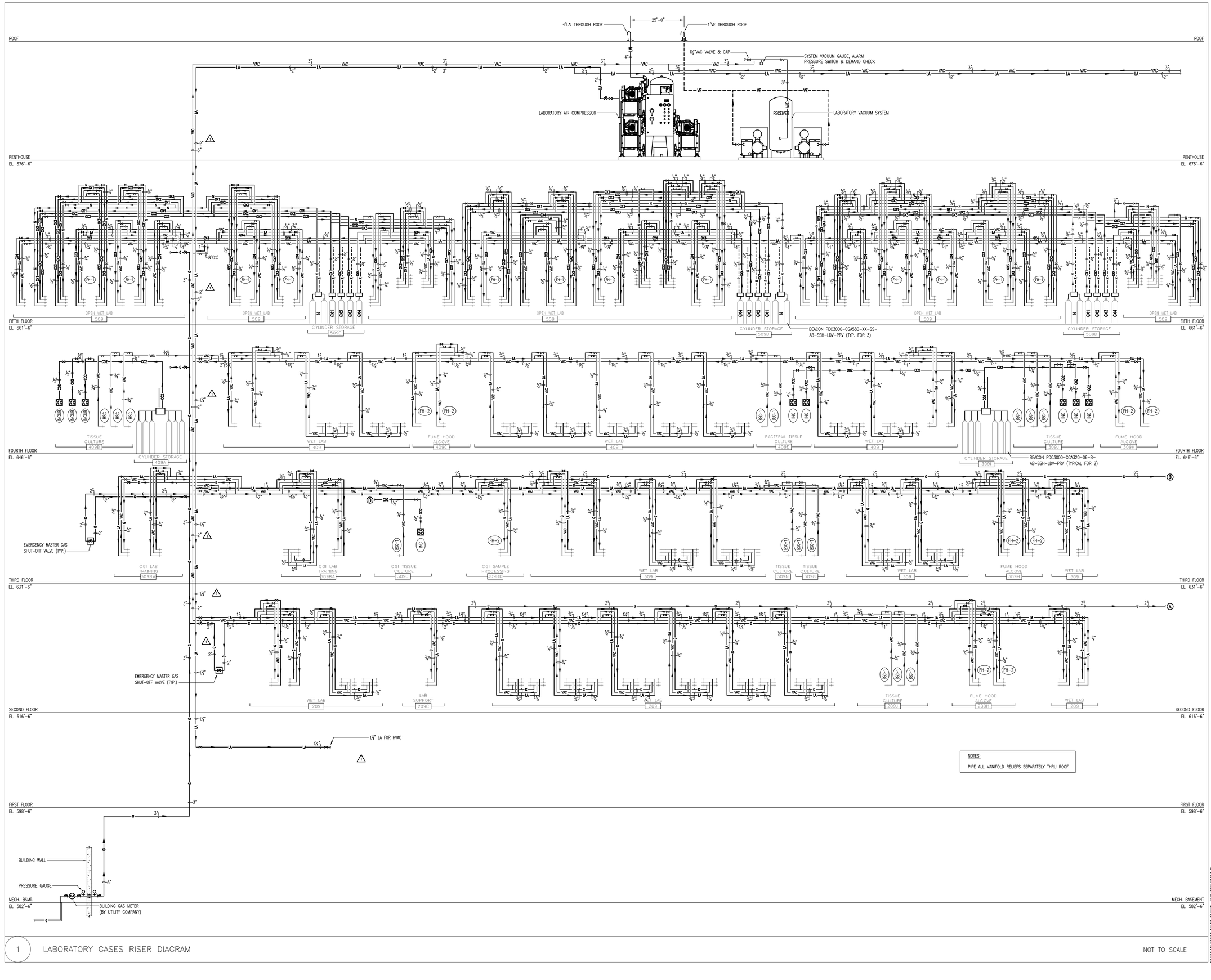
DRAWING TITLE:

DOMESTIC AND NON-POTABLE WATER RISER DIAGRAM

CONFORMED SET: 05/29/2015

PROJECT NO: 092203 | DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS | SCALE: NTS

P3.04



1 LABORATORY GASES RISER DIAGRAM

NOT TO SCALE

CONFORMED SET: 05/29/2015

UNIVERSITY OF CONNECTICUT

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203 857 0200

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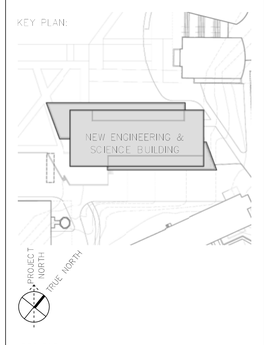
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:

LABORATORY GASES RISER DIAGRAM

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: NTS

P3.05

1 LABORATORY GASES RISER DIAGRAM

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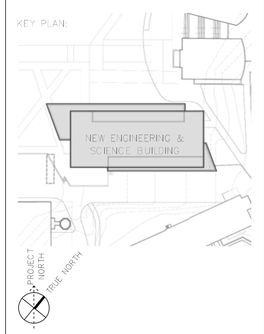


PROJECT:

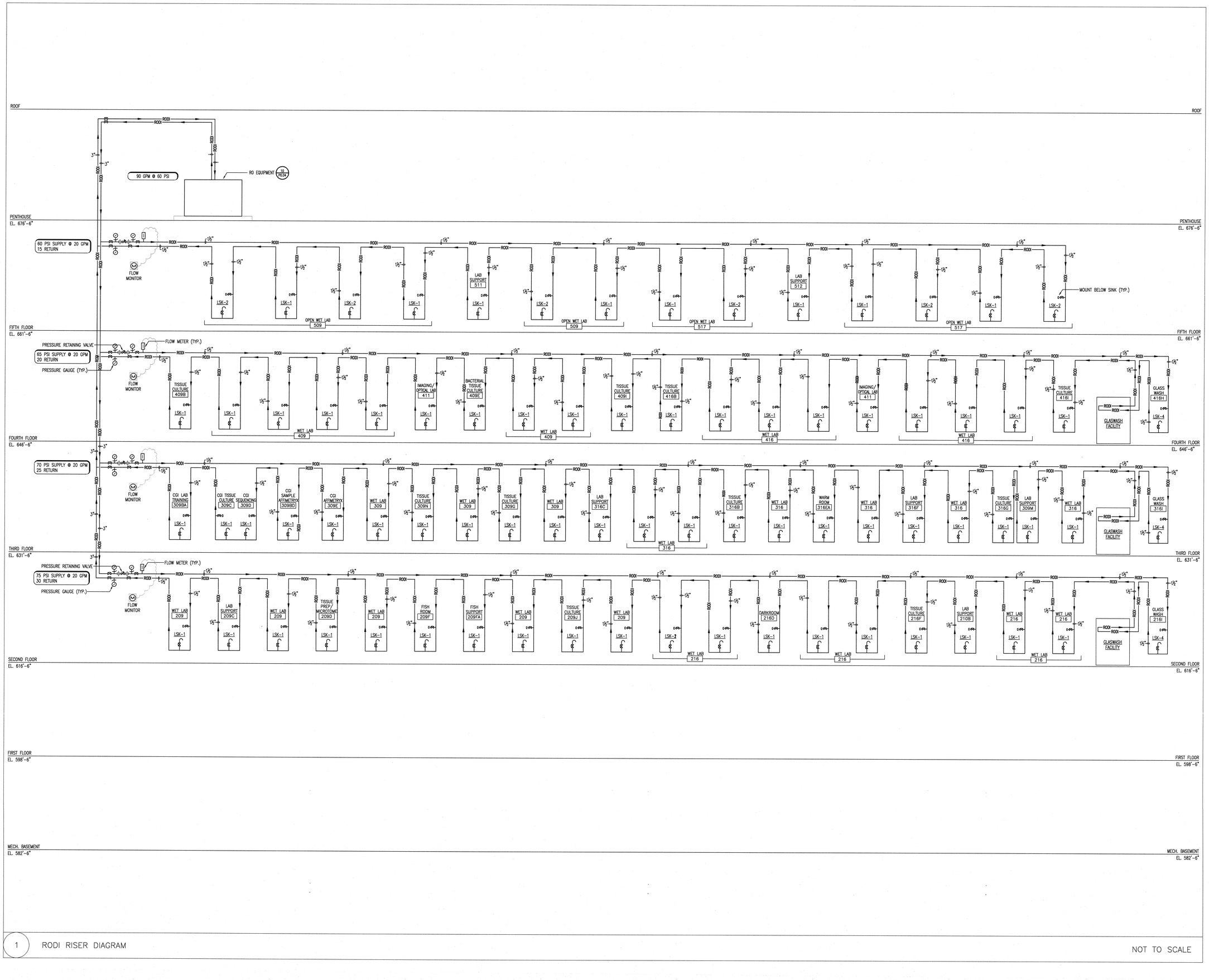
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:

LABORATORY GASES RISER DIAGRAM

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: NTS

P3.06



1 RODI RISER DIAGRAM

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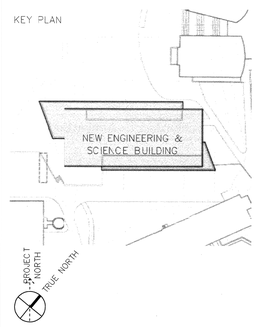


Project:

NEW ENGINEERING AND SCIENCE BUILDING

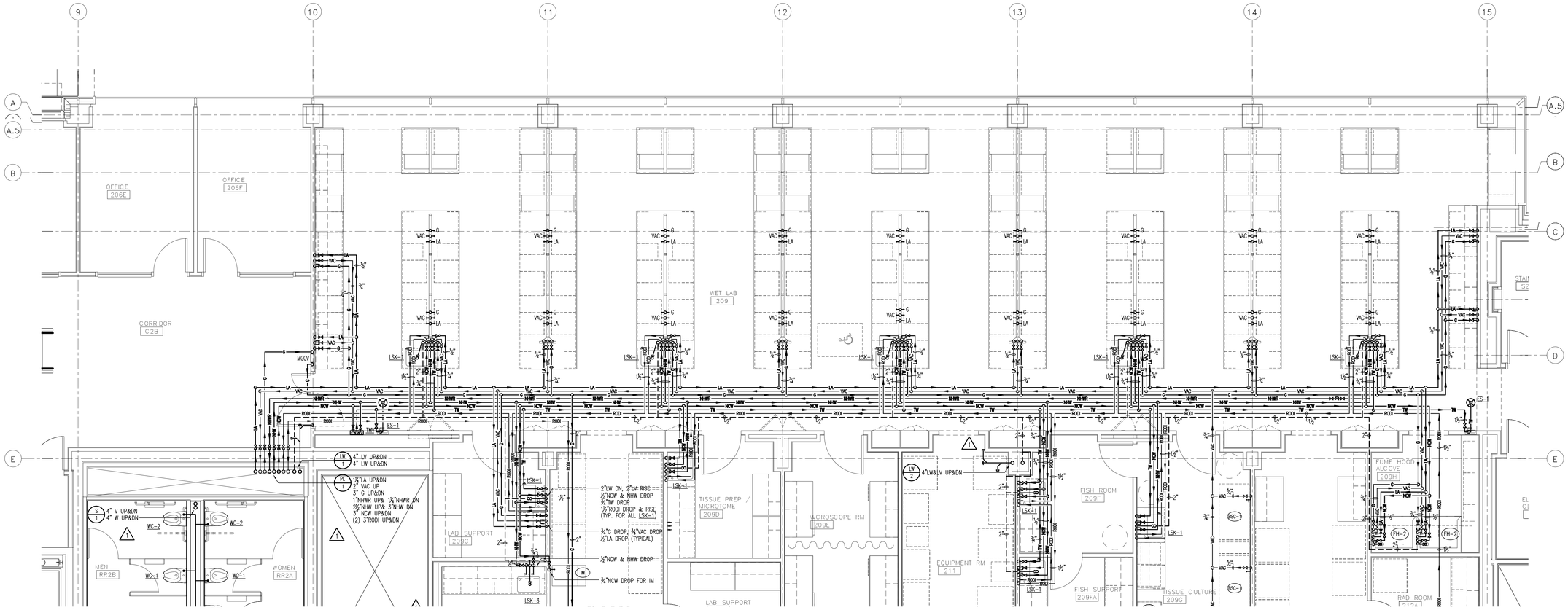
Drawing Title:

RODI RISER DIAGRAM

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: NTS

CONFORMED SET 06/29/2015

P3.07



NOTE:
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KEY PLAN:

PROJECT:
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:
PLUMBING PART PLAN
SECOND FLOOR
NORTH SIDE

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/4"=1'-0"

P4.00

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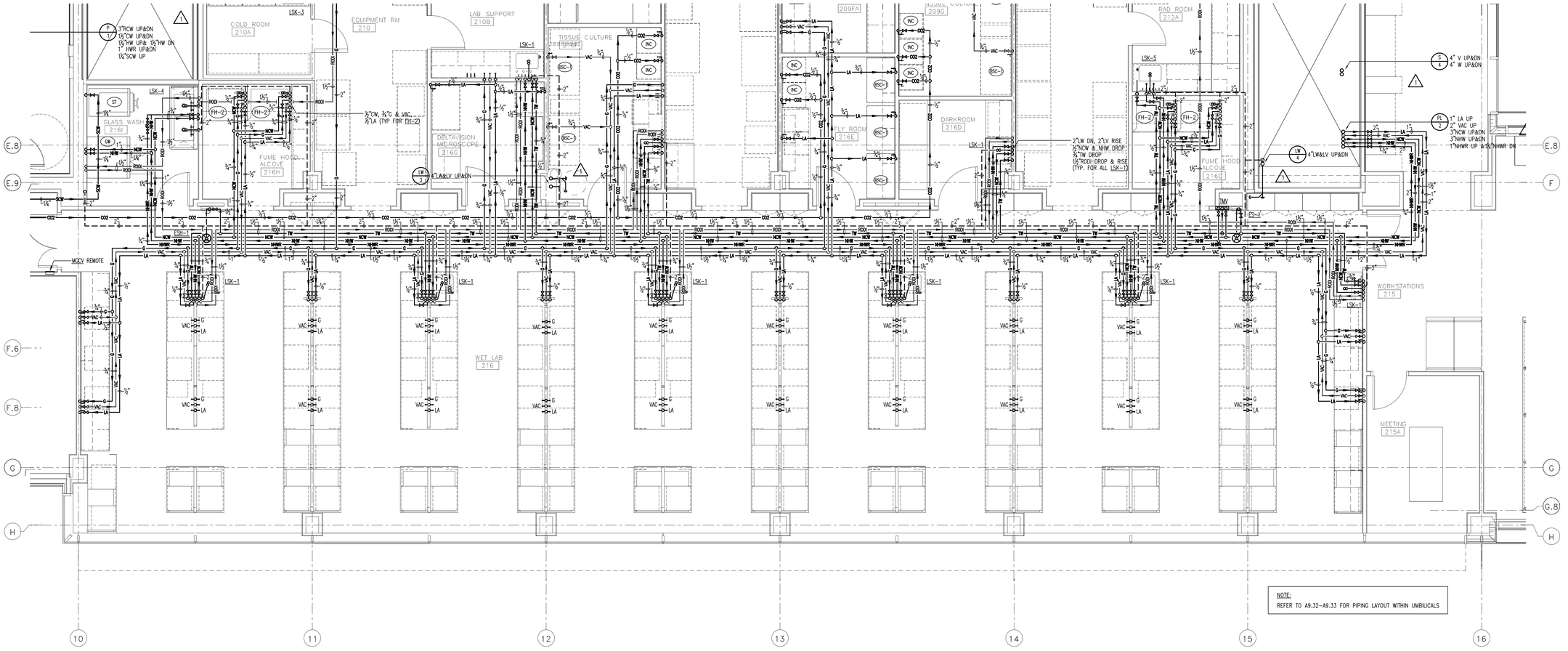

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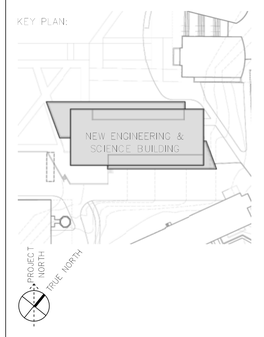
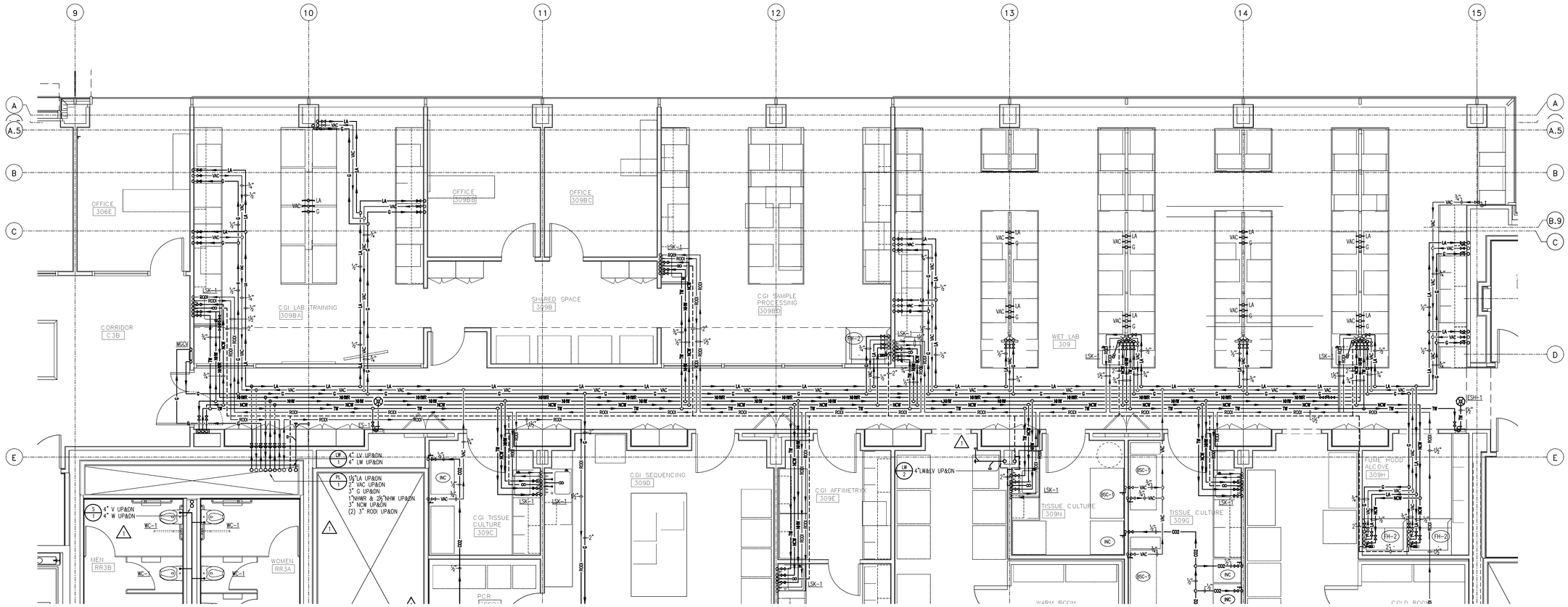


PROJECT:
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:
PLUMBING PART PLAN
SECOND FLOOR
SOUTH SIDE

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/4"=1'-0"

P4.01



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KEY PLAN:

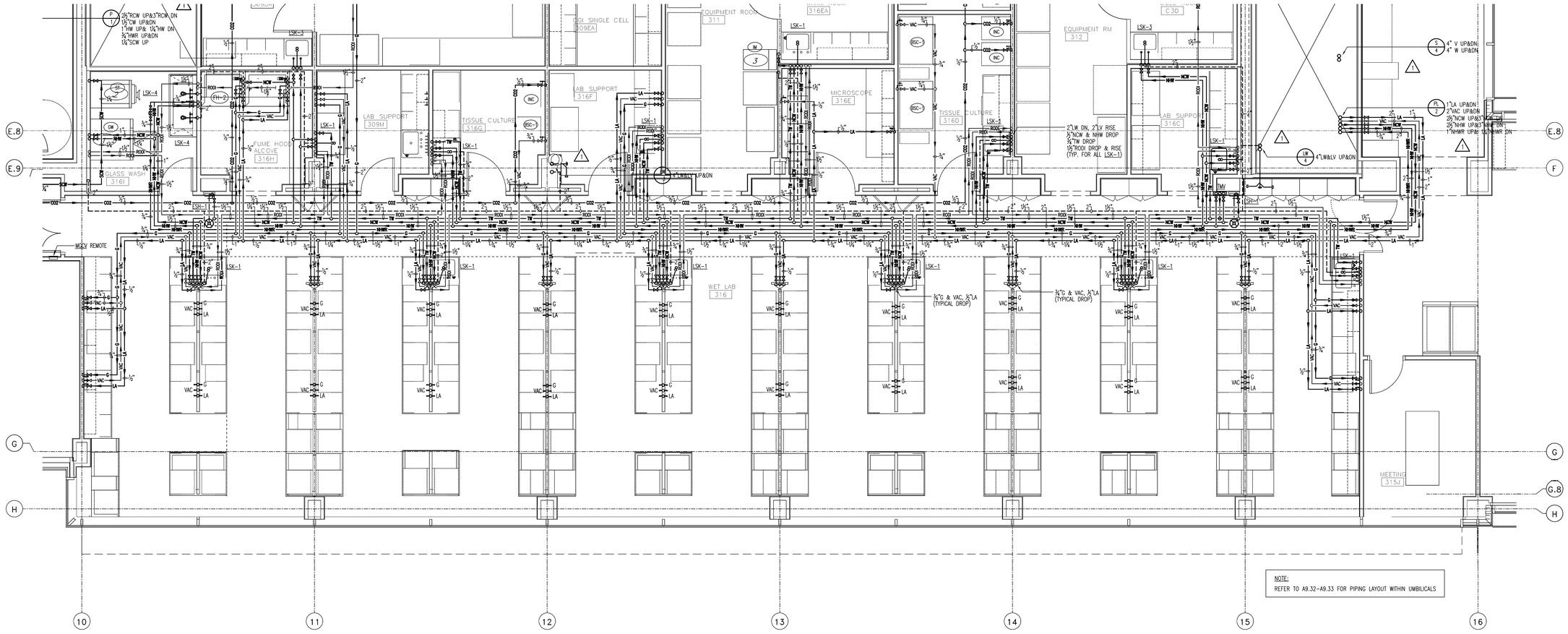
PROJECT:
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:
PLUMBING PART PLAN
THIRD FLOOR
NORTH SIDE

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/4"=1'-0"

P4.02

CONFORMED SET: 05/29/2015



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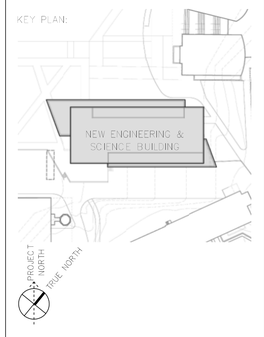


PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

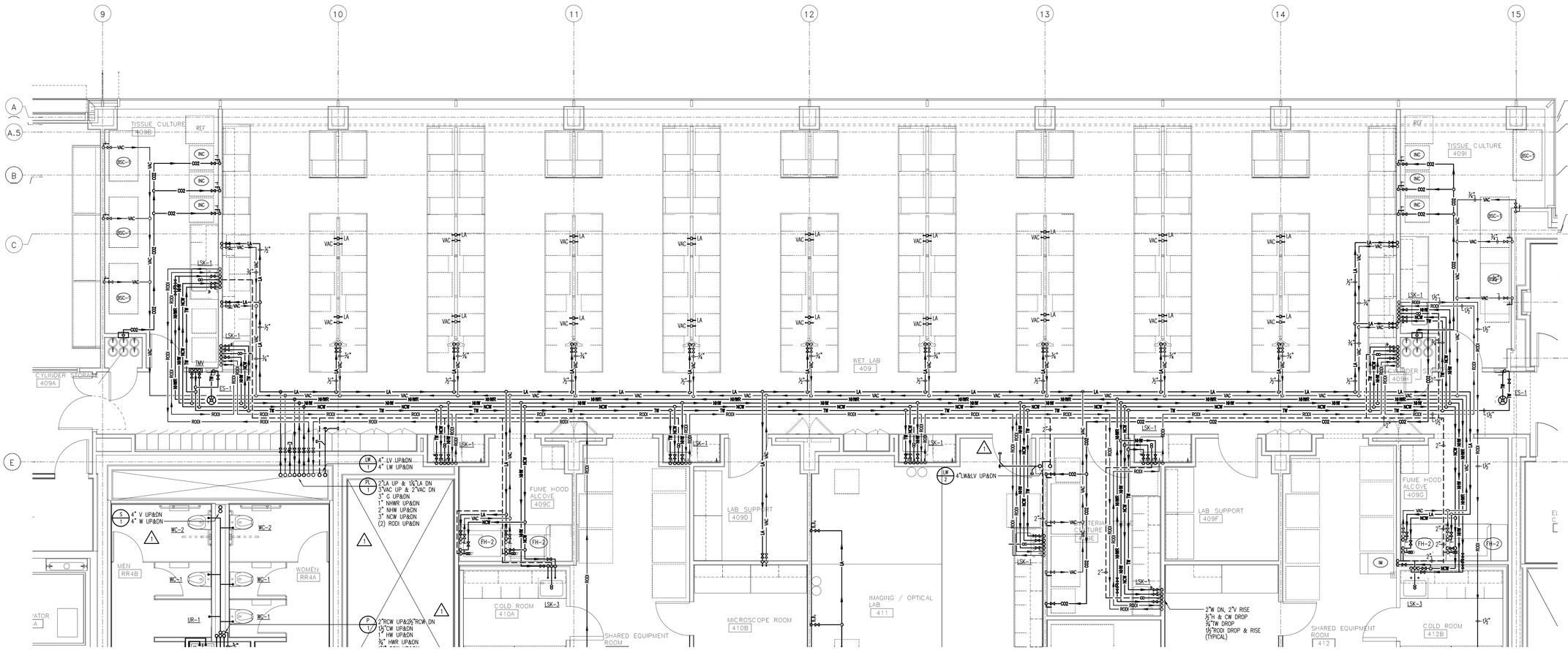
DRAWING TITLE:

PLUMBING PART PLAN
THIRD FLOOR
SOUTH SIDE

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/4"=1'-0"

P4.03

CONFORMED SET: 05/29/2015



NOTE:
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KEY PLAN:

PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

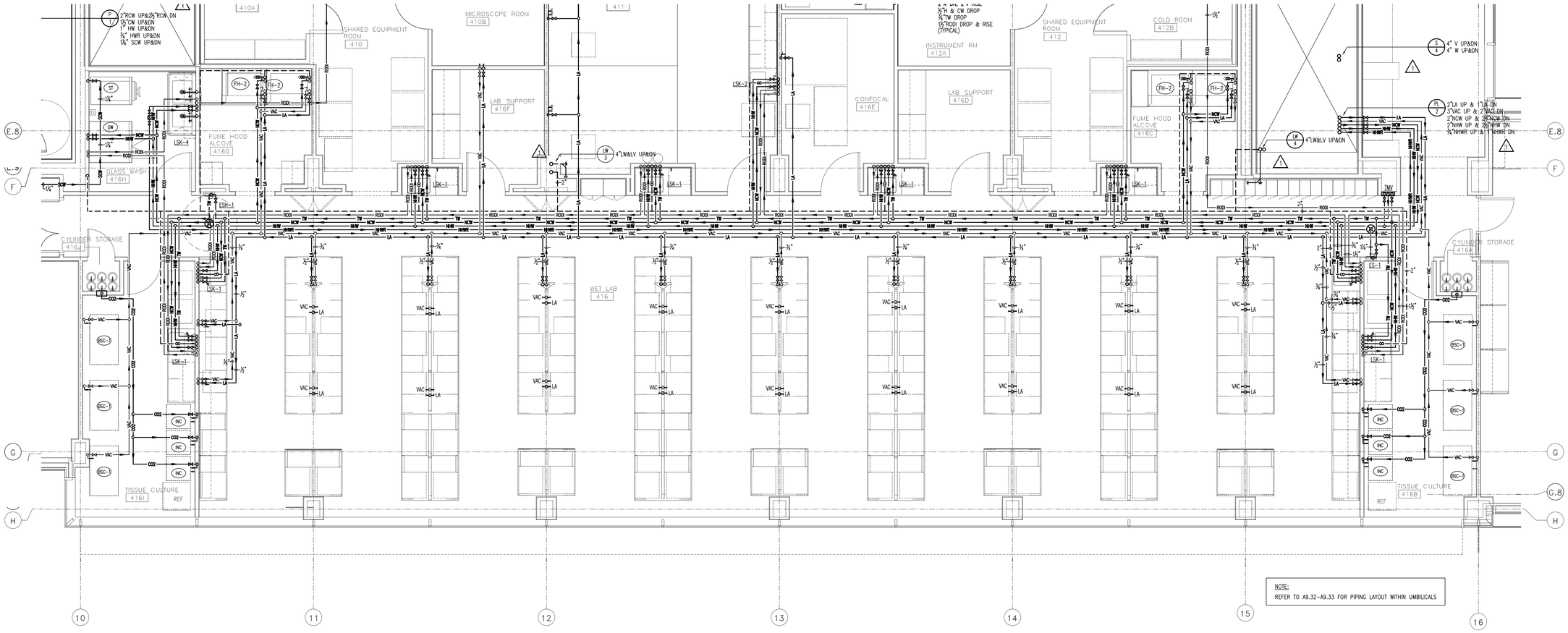
DRAWING TITLE:

PLUMBING PART PLAN FOURTH FLOOR NORTH SIDE

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/4"=1'-0"

P4.04

CONFORMED SET: 05/29/2015



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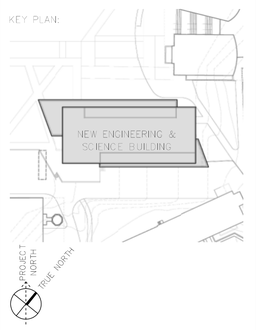


PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

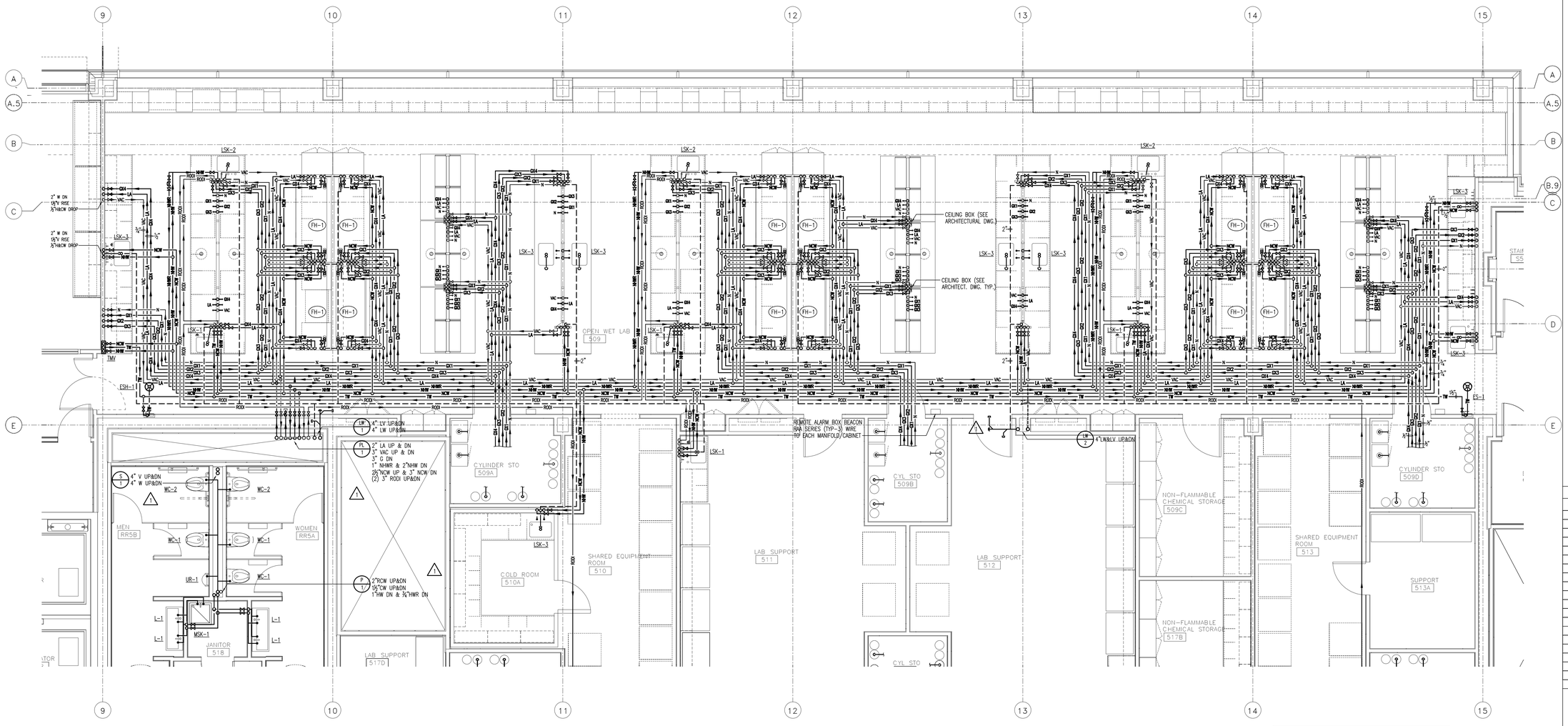
DRAWING TITLE:

PLUMBING PART PLAN FOURTH FLOOR SOUTH SIDE

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/4"=1'-0"

P4.05

CONFORMED SET: 05/29/2015



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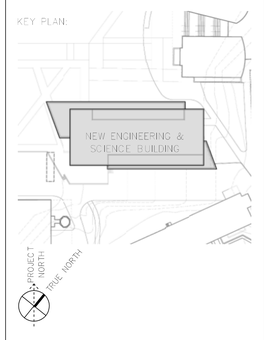


PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

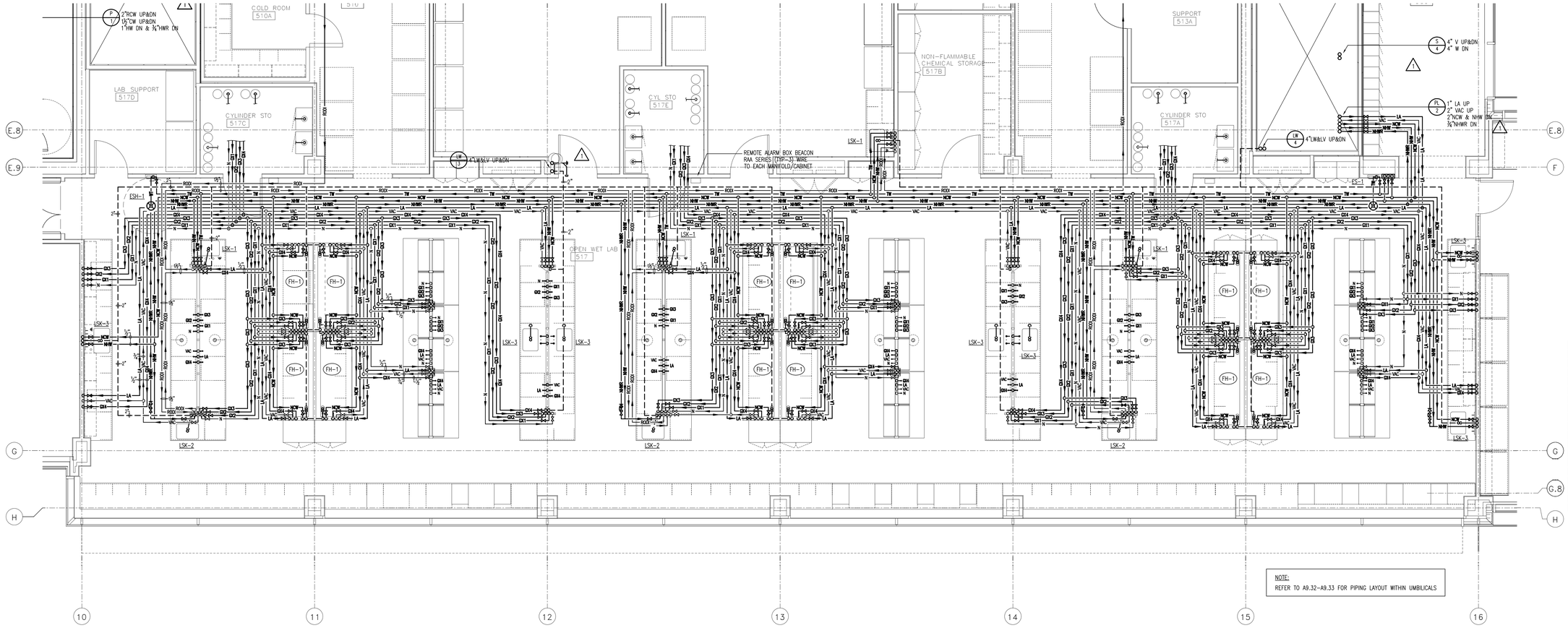
DRAWING TITLE:

PLUMBING PART PLAN
FIFTH FLOOR
NORTH SIDE

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/4"=1'-0"

P4.06

CONFORMED SET: 05/29/2015



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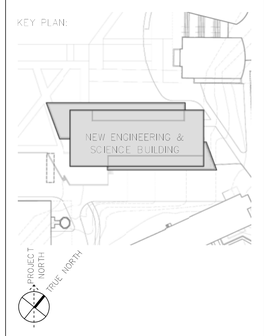

PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:

PLUMBING PART PLAN FIFTH FLOOR SOUTH SIDE

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/4"=1'-0"

P4.07

CONFORMED SET: 05/29/2015

FIRE PROTECTION GENERAL NOTES

1. THE BUILDING SHALL BE FULLY SPRINKLERED BASED ON NFPA 13, LATEST EDITION.
2. SPRINKLER SPACING SHALL BE BASED ON ORDINARY HAZARD GROUP 1 OCCUPANCY (130 SQ. FT. PER SPRINKLER) IN ADMINISTRATIVE SPACE, CORRIDORS, TOILET ROOMS, LABS, MECHANICAL AND STORAGE ROOMS.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR SPRINKLER HEAD TYPES AND LOCATIONS. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR DESIGN OF SPRINKLER COVERAGE.
4. PROVIDE OWNER STANDARD LABELS ON MECHANICAL AND SPRINKLER ROOM DOORS, INDICATING ACCESS TO FIRE PROTECTION EQUIPMENT.
5. HYDRAULIC DATA SHALL BE DETERMINED BY PERFORMING A HYDRANT FLOW TEST. THE TEST SHALL BE CONDUCTED BY THE CONTRACTOR.
6. SHOP DRAWINGS SHALL RECEIVE LOCAL AUTHORITY HAVING JURISDICTION AND OWNER'S INSURANCE COMPANY APPROVAL PRIOR TO ANY FABRICATION OF THE MATERIALS FOR THE FIRE PROTECTION SYSTEM. APPROVED SHOP DRAWINGS, INCLUDING WORKING PLANS AND CALCULATIONS WITH COVER LETTER SHALL BE FORWARDED TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR FINAL APPROVAL.
7. THE FIRE PROTECTION DESIGN AND INSTALLATION SHALL COMPLY WITH ALL STATE AND LOCAL CODES.
8. PROVIDE COMPLETE SPRINKLER PROTECTION BELOW ALL DUCTS AND OBSTRUCTIONS 48" AND WIDER.

SPRINKLER SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER AND MODEL		REMARKS
		MANUFACTURER	MODEL	
•	CONCEALED PENDENT QUICK RESPONSE	RELIABLE	G4A	–
		TYCO	RF II	
		VIKING	MIRAGE VK462	
•	CONCEALED PENDENT QUICK RESPONSE DRY-TYPE STANDARD COVERAGE	RELIABLE	F3QR	PROVIDE IN VESTIBULE AREAS AND COLD ROOMS.
		TYCO	DS-C	
		VIKING	VK180	

NOTE(S):
1. SPRINKLER K-FACTORS SHALL BE AS FOLLOWS:
 1.1. MECHANICAL ROOMS, DATA CLOSET: 8.0 MINIMUM
 1.2. LABS, MEETING RMS, OFFICES: 5.6 MINIMUM

FIRE PROTECTION LEGEND, SYMBOLS AND ABBREVIATIONS

	CTE	CONNECT TO EXISTING
— FDC —	FDC	FIRE DEPARTMENT INLET CONNECTION
— F —	F	FIRE MAIN
	ETR	LIGHT LINE INDICATES EXISTING PIPE TO REMAIN
— SD —	SD	SPRINKLER DRAIN
— SPR —	SPR	WET SPRINKLER PIPE
		ARROW INDICATES DIRECTION OF FLOW
		ARROW INDICATES DIRECTION OF SLOPE DOWN
		CAPPED PIPE
	CV	CHECK VALVE
	CV	CHECK VALVE W/ AUTOMATIC BALL DRIP
	DCVA	DOUBLE CHECK VALVE ASSEMBLY
		DRY PENDENT OR UPRIGHT SPRINKLER
		DRY SIDEWALL SPRINKLER
		ELECTRIC ALARM BELL
	FDC	FIRE DEPARTMENT CONNECTION
	FDV	FIRE DEPARTMENT VALVE
	FVC	FIRE VALVE CABINET
	FCVA	FLOOR CONTROL VALVE ASSEMBLY
	FS	FLOW SWITCH
	DV	HOSE END DRAIN VALVE
		INDICATING VALVE WITH SUPERVISORY SWITCH
		NON-INDICATING VALVE
•		PENDENT SPRINKLER
	DN	PIPE DOWN
	DROP	PIPE DROP
	UP	PIPE UP
		SIDEWALL SPRINKLER
		STRAINER
		UNION
o		UPRIGHT SPRINKLER
	VIV	VALVE IN VERTICAL
		WATER MOTOR GONG
	WTS	WATERTIGHT SLEEVE
	ACV	WET ALARM CHECK VALVE
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	AP	ACCESS PANEL
	EC	ELECTRICAL CONTRACTOR
	FPC	FIRE PROTECTION CONTRACTOR
	F & I	FURNISH & INSTALL
	FBO	FURNISHED BY OWNER
	GC	GENERAL CONTRACTOR
	LFPC	LIMIT OF FIRE PROTECTION CONTRACT
	NC	NORMALLY CLOSED
	NIFPC	NOT IN FIRE PROTECTION CONTRACT
	NTS	NOT TO SCALE
	TYP	TYPICAL

BUILDING AREA	
SYSTEM TYPE	EXISTING OR NEW
DENSITY (GPM)	AREA OF APPLICATION (SQ.FT.)
COVERAGE PER SPRINKLER (SQ.FT.)	HOSE ALLOWANCE (GPM)
HAZARD CLASSIFICATION	
REMARKS:	

DENOTES SPRINKLER DESIGN CRITERIA

DENOTES SPRINKLER HYDRAULIC CALCULATION AREA

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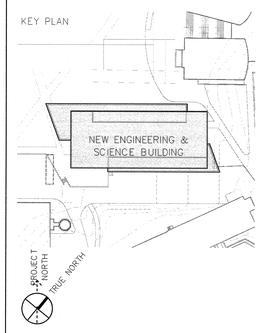
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

Drawing Title:

FIRE PROTECTION COVER SHEET

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: NTS

CONFORMED SET: 05/29/2015

FP0.01

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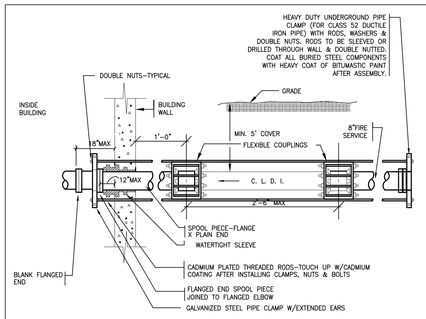
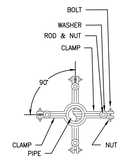




END VIEW OF PIPE WITH 2 CLAMPS

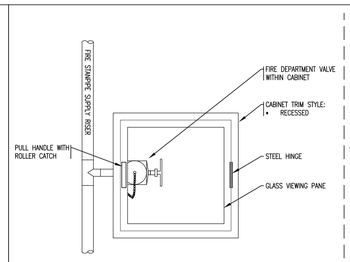
MINIMUM SIZES FOR CLAMPS, RODS, BOLTS & WASHERS

PIPE DIA	CLAMPS	RODS	BOLTS	WASHERS
4"&6"	1/2"x2"	(2)5/8"	5/8"	5/8"x3"ø
8"	5/8"x2"	(2)3/4"	5/8"	5/8"x3"ø
10"	(2)5/8"x2"	(4)5/8"*	3/4"	5/8"x3"ø
12"	(2)5/8"x3"	(4)3/4"*	7/8"	3/4"x3 1/2"ø

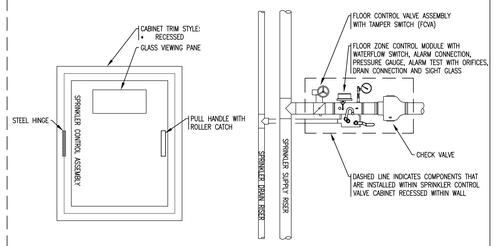
* 2 RODS PER CLAMP

NOTE(S):
1. PROVIDE NIPPLE EXTENSIONS AS REQUIRED BY CONSTRUCTION OF EXTERIOR WALL.
2. REFER TO DESIGN DOCUMENTS FOR SPECIFIC QUANTITY OF CLAPPER INLETS AND SIZES.

FP 001 FIRE PROTECTION SERVICE THROUGH FOUNDATION WALL
SCALE: NONE



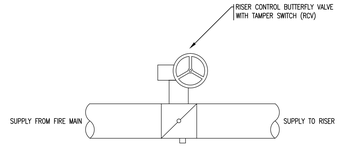
FIRE STANDPIPE ONLY



SPRINKLER SUPPLY AND DRAIN

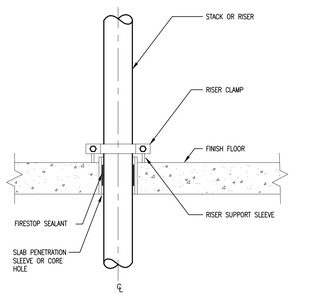
NOTE(S):
1. PROVIDE FIRE RATED CABINET(S) WHERE REQUIRED.
2. REFER TO ARCHITECTURAL ELEVATIONS AND PLANS FOR CABINET LOCATIONS AND HEIGHTS.
3. PROVIDE SYSTEM INFORMATION AND HYDRAULIC DATA SIGN ON EVERY FLOOR AT SPRINKLER ONLY RISER.

FP 002 FIRE PROTECTION RISERS, CONTROL VALVE ASSEMBLY, AND CABINETS
SCALE: NONE



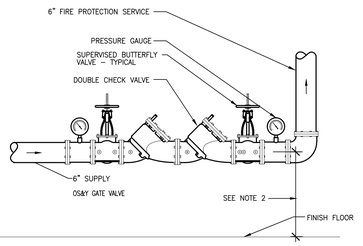
NOTE(S):
1. PROVIDE AT THE BASE OF EVERY FIRE PROTECTION RISER IN ACCESSIBLE LOCATION.

FP 003 RISER CONTROL VALVE (RCV)
SCALE: NONE



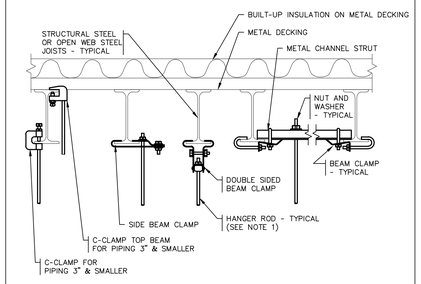
NOTE(S):
1. FIRESTOP SEALANTS AND PIPING PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL COMPLY WITH THE UL FIRE RESISTANCE DIRECTORY.

FP 004 SLAB PENETRATION AND RISER SUPPORT SLEEVE
SCALE: NONE



NOTE(S):
1. SUPPORT PIPING AND FITTINGS AS REQUIRED TO CONFORM TO MANUFACTURERS REQUIREMENTS.
2. INSTALL DCVA 3' TO 4' AFF WITH CLEAR SPACE OF 3" IN FRONT, 1' AT EACH END AND 1' FROM WALL (MINIMUM).

FP 005 DOUBLE CHECK VALVE ASSEMBLY
SCALE: NONE



NOTE(S):
1. -

FP 006 CENTER OF TILE SPRINKLER LOCATIONS
SCALE: NONE

NOTE(S):
1. PROVIDE AT THE BASE OF EVERY FIRE PROTECTION RISER IN ACCESSIBLE LOCATION.

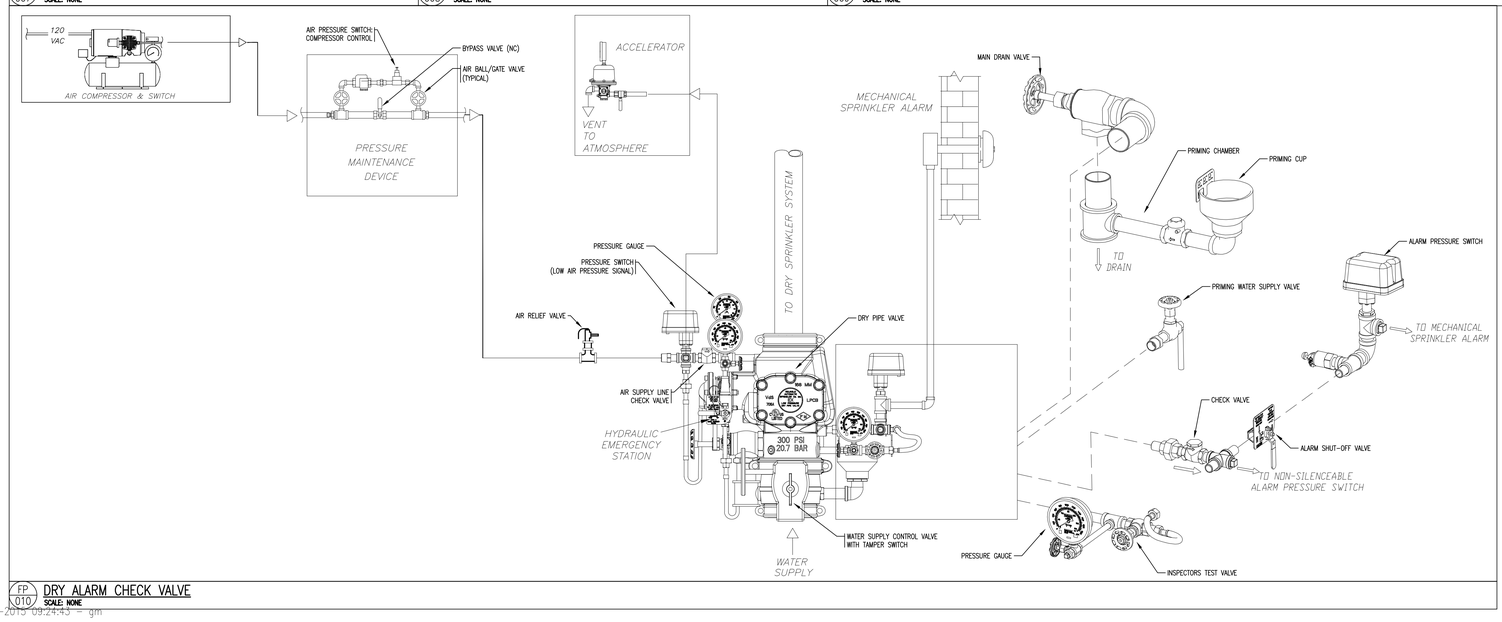
FP 007 SPRINKLER RETURN BEND DROP
SCALE: NONE

NOTE(S):
1. -

FP 008 CENTER OF TILE SPRINKLER LOCATIONS
SCALE: NONE

NOTE(S):
1. PROVIDE NIPPLE EXTENSIONS AS REQUIRED BY CONSTRUCTION OF EXTERIOR WALL.
2. REFER TO DESIGN DOCUMENTS FOR SPECIFIC QUANTITY OF CLAPPER INLETS AND SIZES.

FP 009 FIRE DEPARTMENT INLET / SIAMESE CONNECTION (FLUSH MOUNTED)
SCALE: NONE



FP 010 DRY ALARM CHECK VALVE
SCALE: NONE

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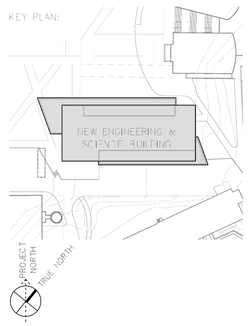


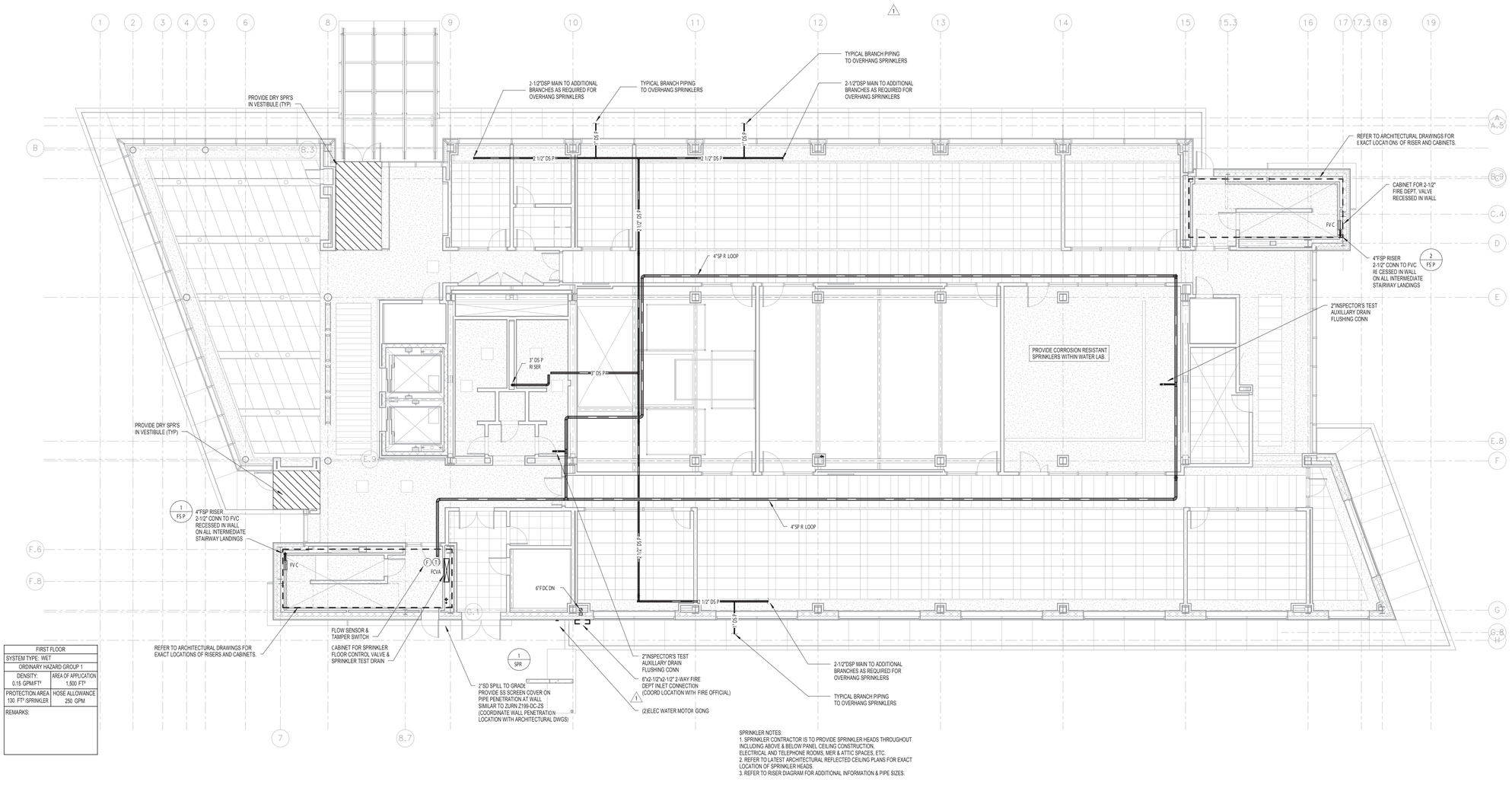
PROJECT:
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:
FIRE PROTECTION DETAILS

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: NTS

FP0.02

CONFORMED SET: 05/29/2015



FIRST FLOOR	
SYSTEM TYPE: WET	
ORDINARY HAZARD GROUP 1	
DENSITY: 0.15 GPM/FT²	AREA OF APPLICATION 1,500 FT²
PROTECTION AREA 130 FT² SPRINKLER	HOSE ALLOWANCE 250 GPM
REMARKS:	

SPRINKLER NOTES:
1. SPRINKLER CONTRACTOR IS TO PROVIDE SPRINKLER HEADS THROUGHOUT INCLUDING ABOVE & BELOW PANEL CEILING CONSTRUCTION, ELECTRICAL AND TELEPHONE ROOMS, MER & ATTIC SPACES, ETC.
2. REFER TO LATEST ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF SPRINKLER HEADS.
3. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION & PIPE SIZES.

CONFORMED SET: 05/29/2015

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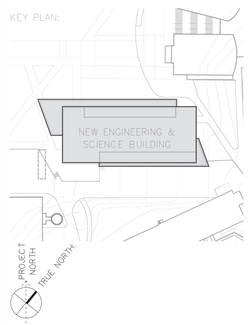


PROJECT:

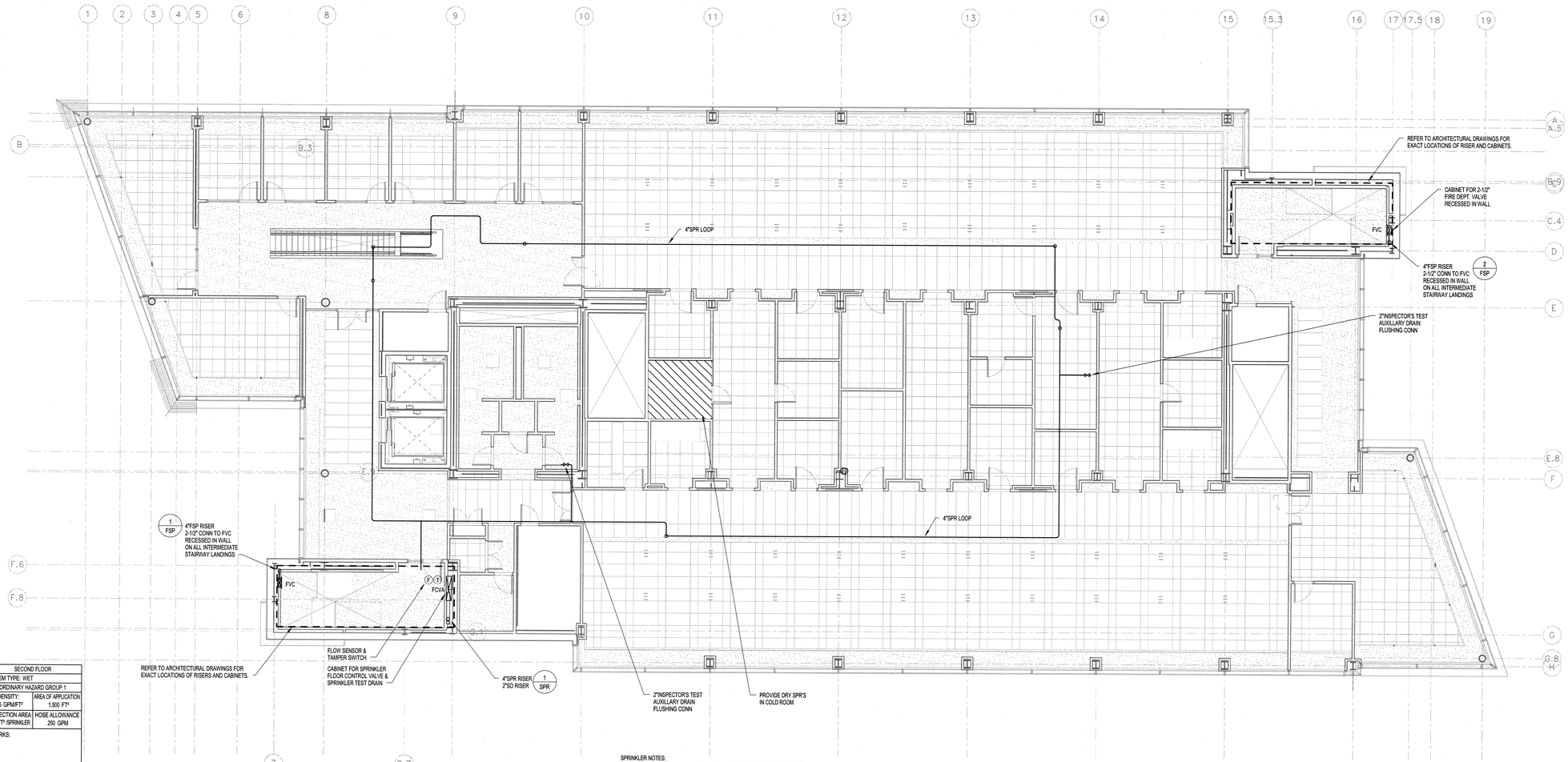
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:

FIRE PROTECTION FIRST FLOOR

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

FP1.01



SECOND FLOOR	
SYSTEM TYPE: WET	
ORDINARY HAZARD GROUP 1	
DENSITY: 0.15 GPM/FT²	AREA OF APPLICATION 1,500 FT²
PROTECTION AREA 130 FT² SPRINKLER	HOSE ALLOWANCE 250 GPM
REMARKS:	

SPRINKLER NOTES:
1. SPRINKLER CONTRACTOR IS TO PROVIDE SPRINKLER HEADS THROUGHOUT INCLUDING ABOVE & BELOW PANEL CEILING CONSTRUCTION, ELECTRICAL AND TELEPHONE ROOMS, MER & ATTIC SPACES, ETC.
2. REFER TO LATEST ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF SPRINKLER HEADS.
3. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION & PIPE SIZES.

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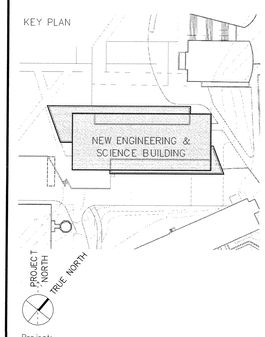


Project:

NEW ENGINEERING AND SCIENCE BUILDING

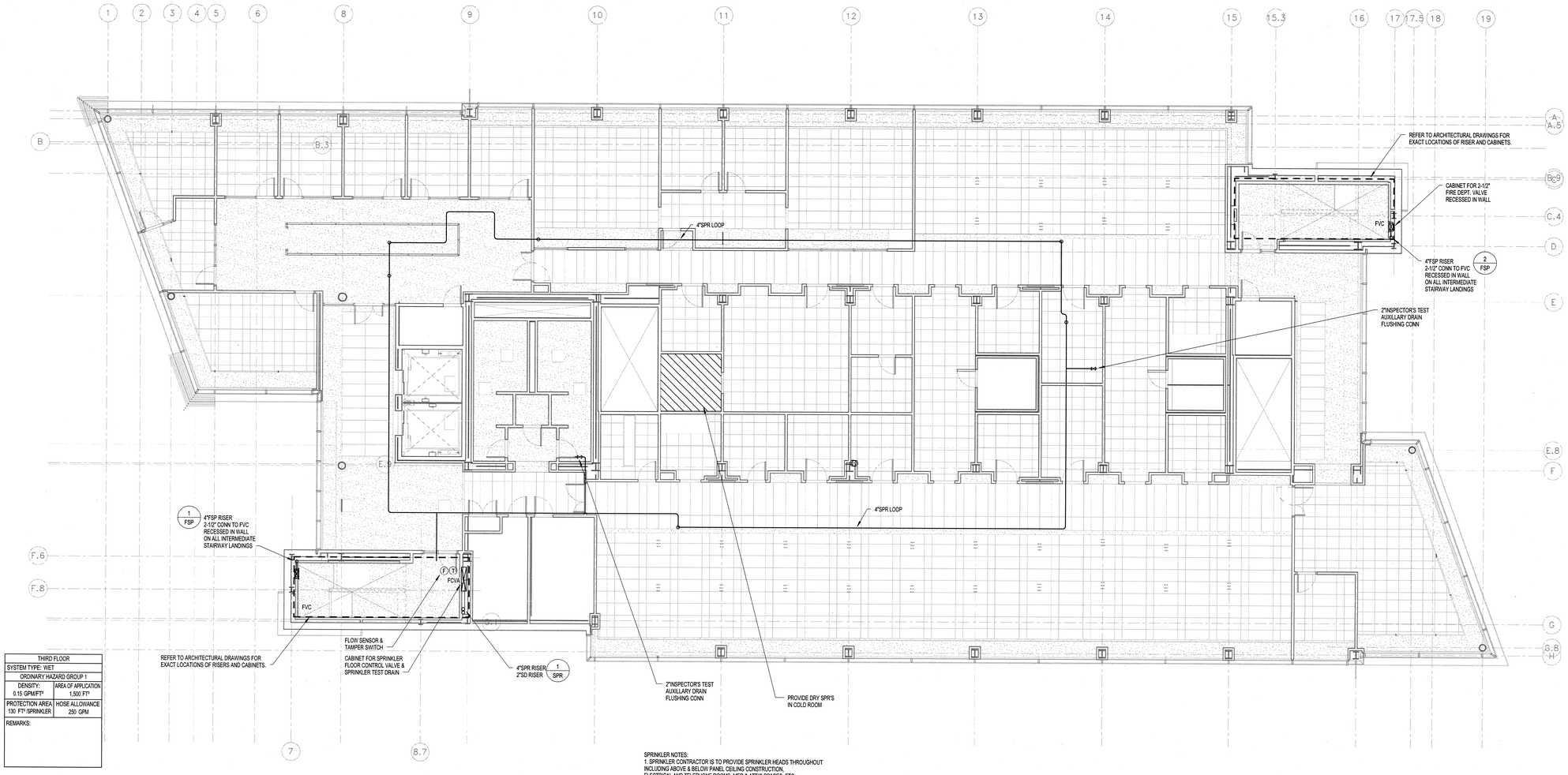
Drawing Title:

FIRE PROTECTION SECOND FLOOR

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

FP1.02

CONFORMED SET: 05/29/2015



THIRD FLOOR	
SYSTEM TYPE: WET	
ORDINARY HAZARD GROUP 1	
DENSITY: 0.15 GPM/FT²	AREA OF APPLICATION 1,500 FT²
PROTECTION AREA 130 FT² SPRINKLER	HOSE ALLOWANCE 250 GPM
REMARKS:	

SPRINKLER NOTES:
1. SPRINKLER CONTRACTOR IS TO PROVIDE SPRINKLER HEADS THROUGHOUT INCLUDING ABOVE & BELOW PANEL CEILING CONSTRUCTION, ELECTRICAL AND TELEPHONE ROOMS, MER & ATTIC SPACES, ETC.
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3. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION & PIPE SIZES.

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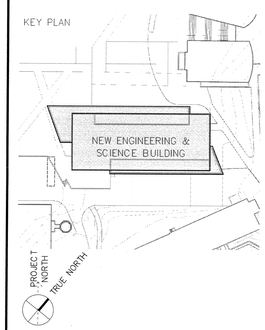


Project:

NEW ENGINEERING AND SCIENCE BUILDING

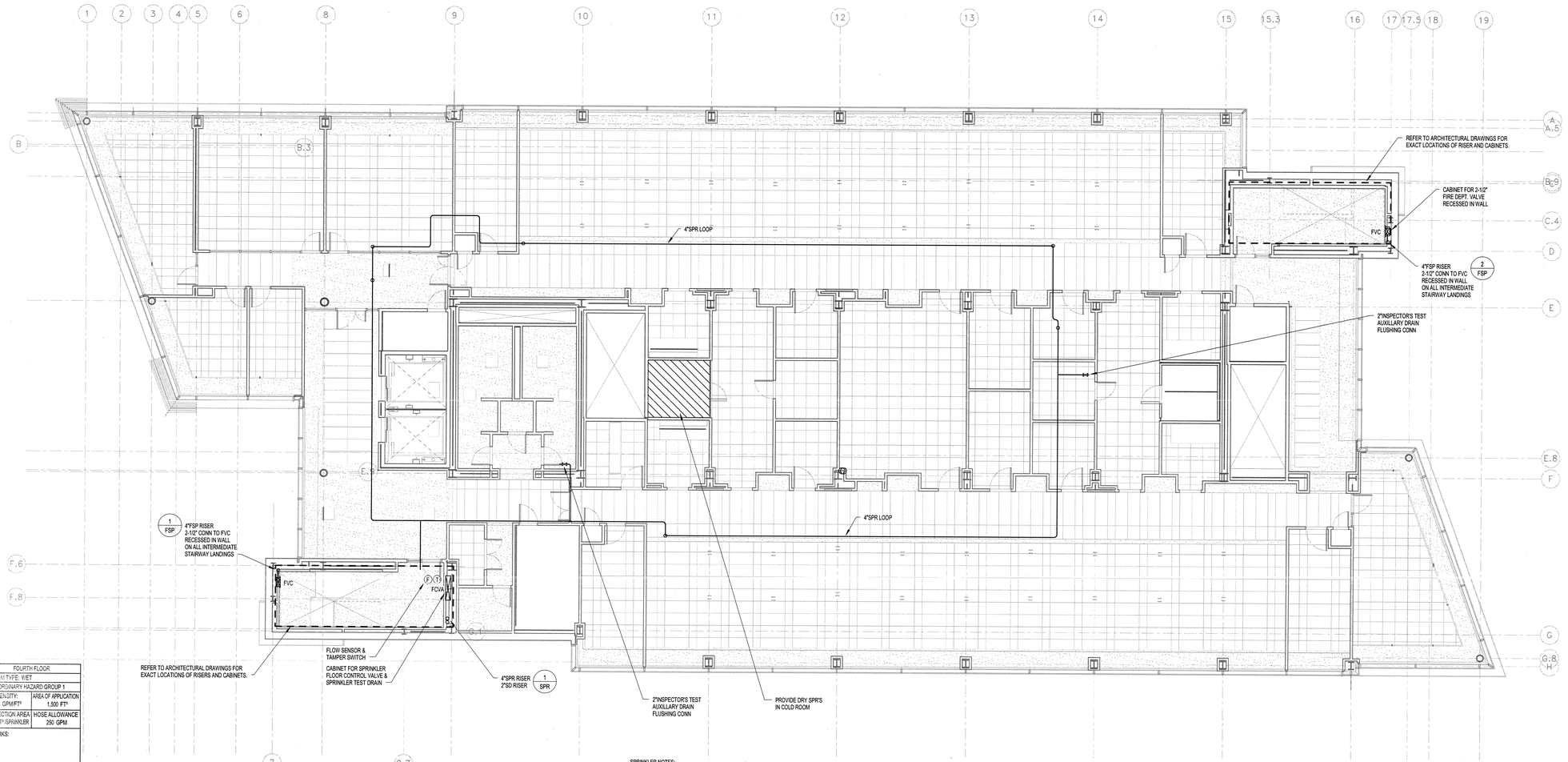
Drawing Title:

FIRE PROTECTION THIRD FLOOR

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

FP1.03

CONFORMED SET: 05/29/2015



FOURTH FLOOR	
SYSTEM TYPE: WET	
ORDINARY HAZARD GROUP 1	
DENSITY: 0.15 GPM/FT²	AREA OF APPLICATION 1,500 FT²
PROTECTION AREA 130 FT²/SPRINKLER	HOSE ALLOWANCE 250 GPM
REMARKS:	

SPRINKLER NOTES:
1. SPRINKLER CONTRACTOR IS TO PROVIDE SPRINKLER HEADS THROUGHOUT INCLUDING ABOVE & BELOW PANEL CEILING CONSTRUCTION, ELECTRICAL AND TELEPHONE ROOMS, MER & ATTIC SPACES, ETC.
2. REFER TO LATEST ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF SPRINKLER HEADS.
3. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION & PIPE SIZES.

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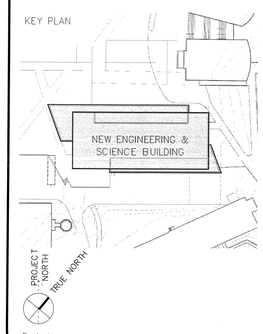
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

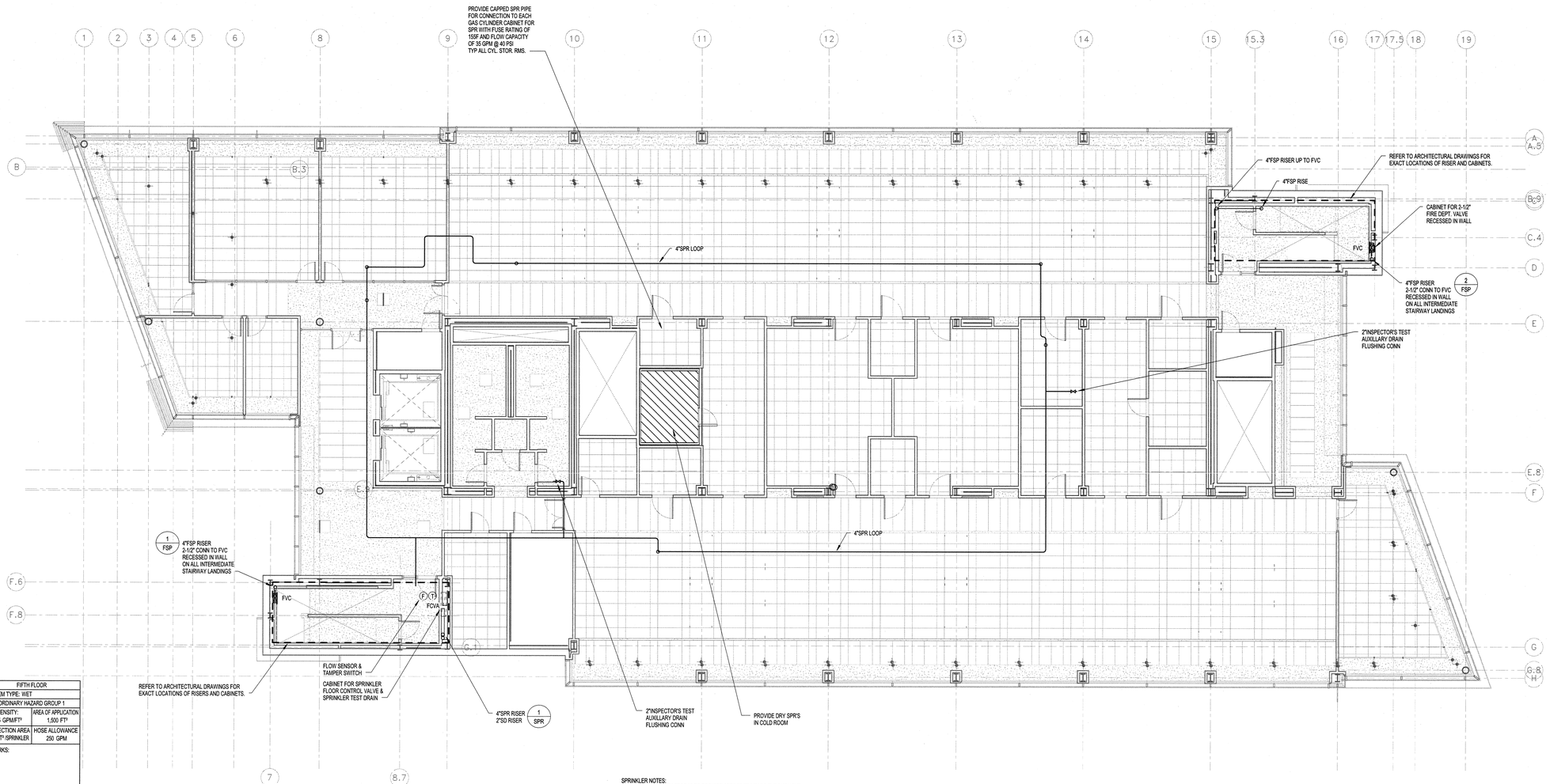
Drawing Title:

FIRE PROTECTION FOURTH FLOOR

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

FP1.04

CONFORMED SET: 05/29/2015



FIFTH FLOOR	
SYSTEM TYPE: WET	
ORDINARY HAZARD GROUP 1	
DENSITY: 0.15 GPM/FT²	AREA OF APPLICATION 1,500 FT²
PROTECTION AREA 130 FT² /SPRINKLER	HOSE ALLOWANCE 250 GPM
REMARKS:	

SPRINKLER NOTES:
1. SPRINKLER CONTRACTOR IS TO PROVIDE SPRINKLER HEADS THROUGHOUT INCLUDING ABOVE & BELOW PANEL CEILING CONSTRUCTION, ELECTRICAL AND TELEPHONE ROOMS, MER & ATTIC SPACES, ETC.
2. REFER TO LATEST ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF SPRINKLER HEADS.
3. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION & PIPE SIZES.

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ISSUE/REVISION:

NO.	DATE	COMMENTS

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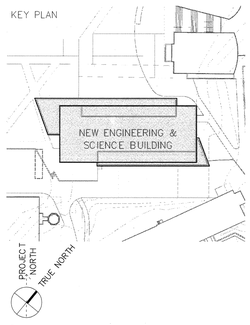
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

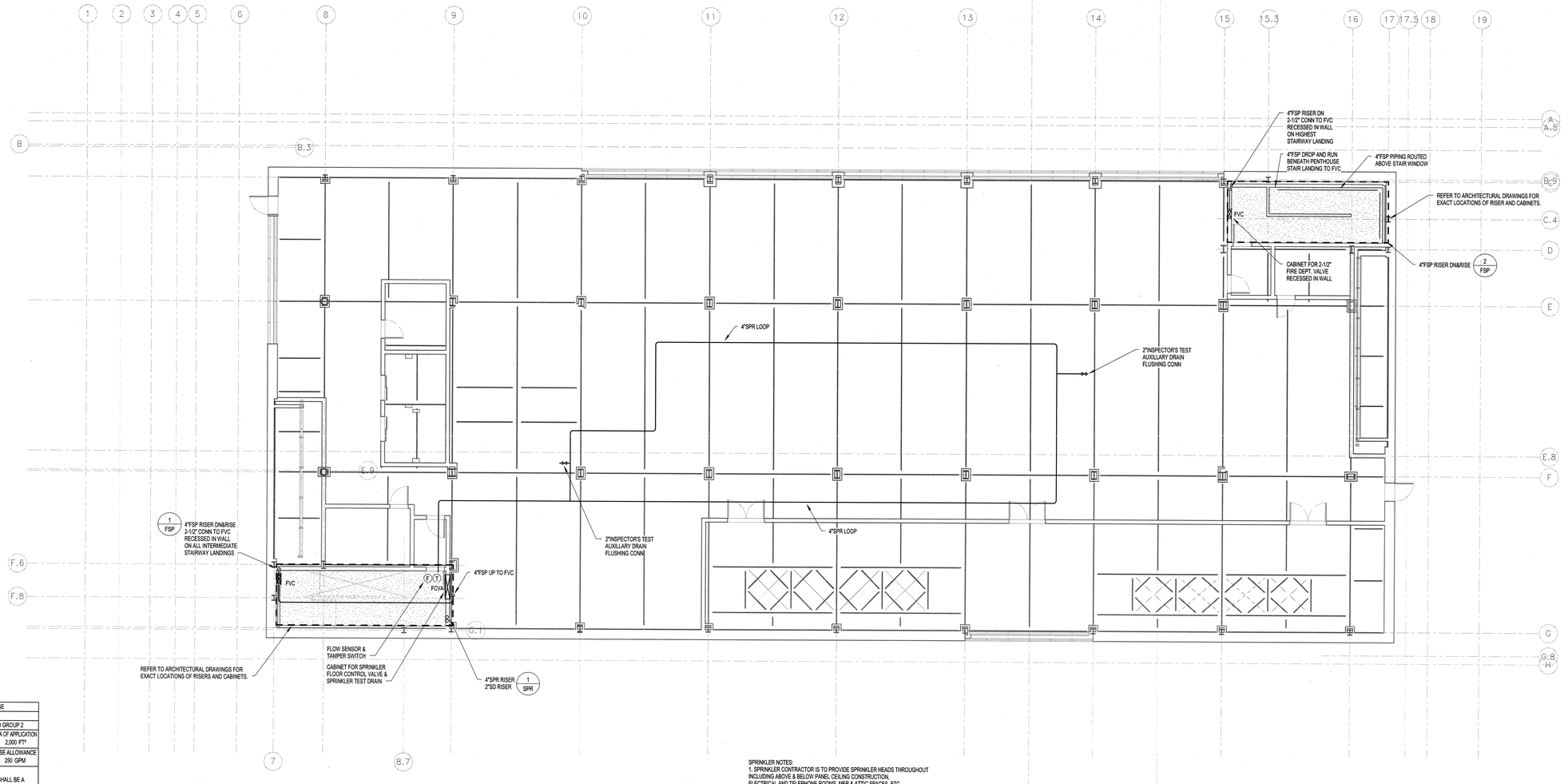
Drawing Title:

FIRE PROTECTION
FIFTH FLOOR

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

FP1.05

CONFORMED SET: 05/29/2015



PENTHOUSE	
SYSTEM TYPE: WET	
ORDINARY HAZARD GROUP 2	
DENSITY: 0.2 GPM/FT²	AREA OF APPLICATION 2,000 FT²
PROTECTION AREA 130 FT² /SPRINKLER	HOSE ALLOWANCE 250 GPM
REMARKS: SPRINKLER K-FACTOR SHALL BE A MINIMUM OF 8.0.	

SPRINKLER NOTES:
1. SPRINKLER CONTRACTOR IS TO PROVIDE SPRINKLER HEADS THROUGHOUT INCLUDING ABOVE & BELOW PANEL CEILING CONSTRUCTION, ELECTRICAL AND TELEPHONE ROOMS, MER & ATTIC SPACES, ETC.
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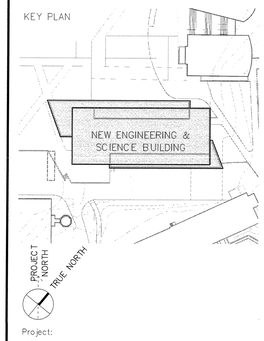


Project:

NEW ENGINEERING AND SCIENCE BUILDING

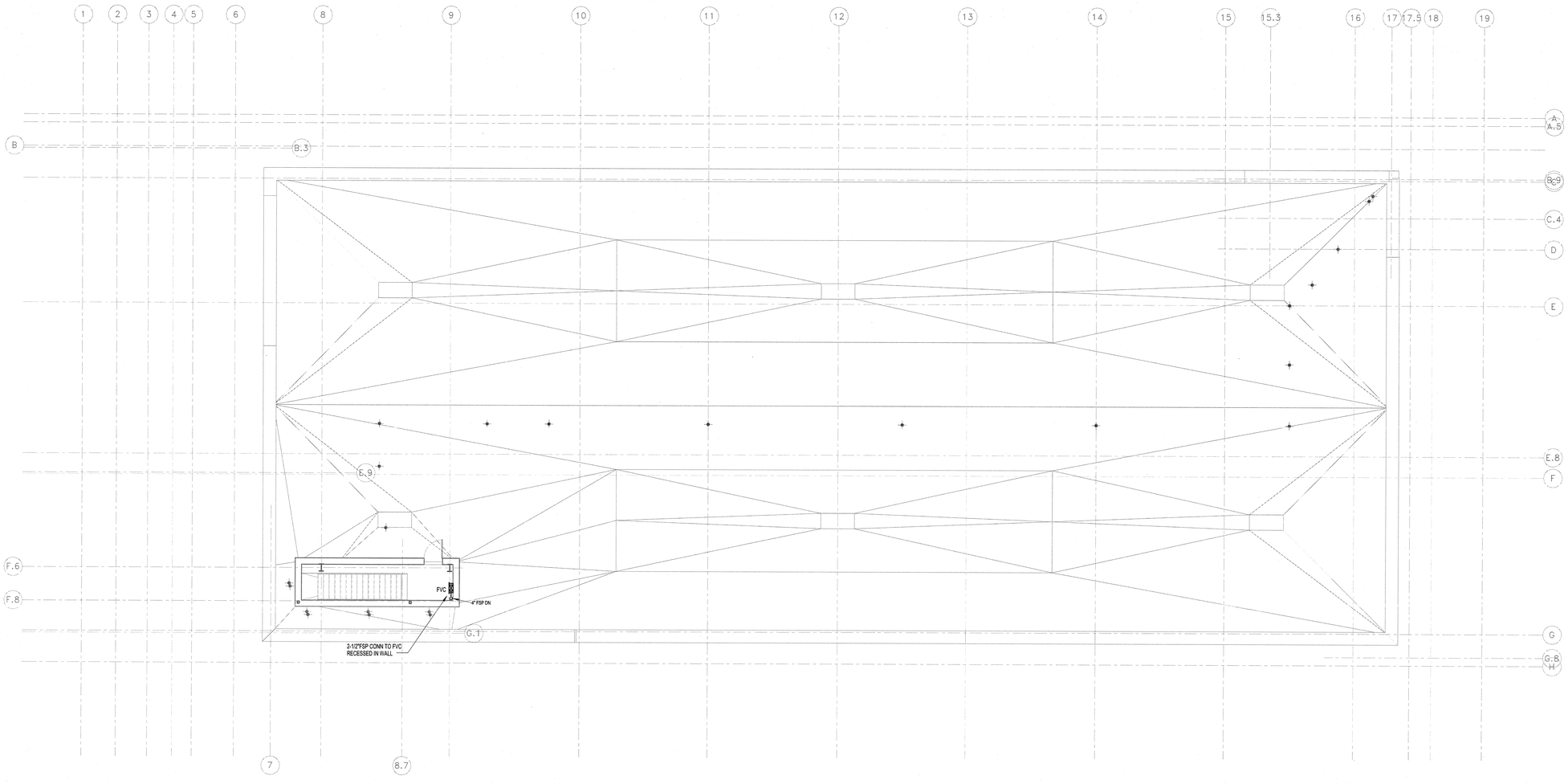
Drawing Title:

FIRE PROTECTION PENTHOUSE

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

FP1.06

CONFORMED SET: 05/29/2015



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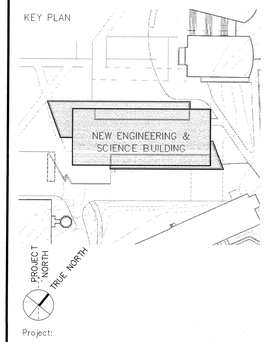


Project:

NEW ENGINEERING AND SCIENCE BUILDING

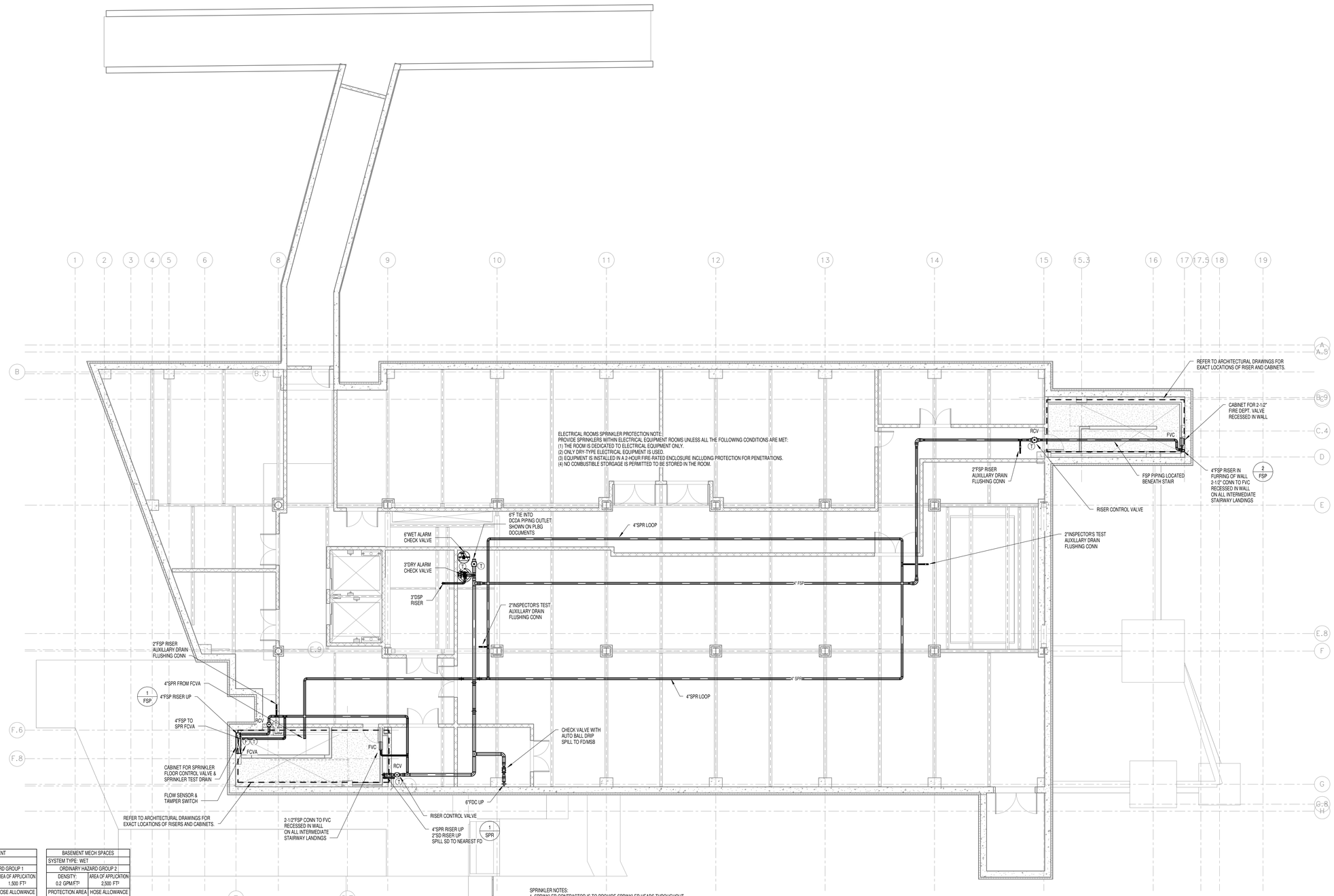
Drawing Title:

FIRE PROTECTION ROOF

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

FP1.07

CONFORMED SET: 05/29/2015



BASEMENT	
SYSTEM TYPE: WET	
ORDINARY HAZARD GROUP 1	
DENSITY: 0.15 GPM/FT²	AREA OF APPLICATION 1,500 FT²
PROTECTION AREA 130 FT²/ SPRINKLER	HOSE ALLOWANCE 250 GPM
REMARKS:	

BASEMENT MECH SPACES	
SYSTEM TYPE: WET	
ORDINARY HAZARD GROUP 2	
DENSITY: 0.2 GPM/FT²	AREA OF APPLICATION 2,500 FT²
PROTECTION AREA 130 FT²/ SPRINKLER	HOSE ALLOWANCE 250 GPM
REMARKS: SPRINKLER K-FACTOR SHALL BE A MINIMUM OF 8.0.	

SPRINKLER NOTES:
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1	04/20/2015	ADDENDUM 3

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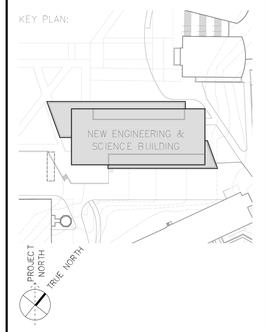
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

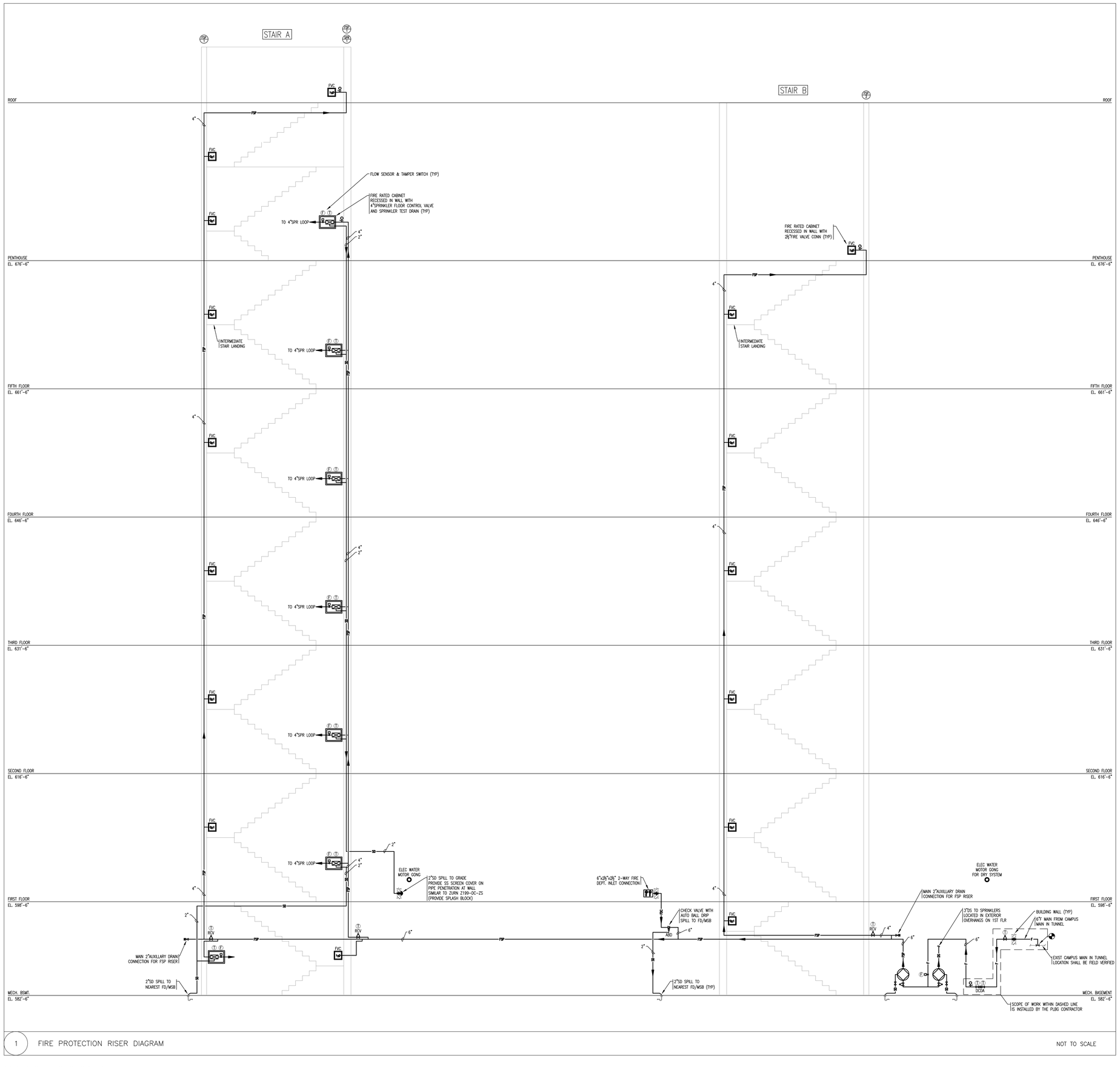
DRAWING TITLE:

FIRE PROTECTION BASEMENT PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

FP1.00

CONFORMED SET: 05/29/2015



1 FIRE PROTECTION RISER DIAGRAM

NOT TO SCALE

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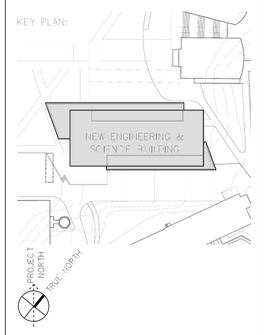
ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	04/20/2015	ADDENDUM 3

KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:

FIRE PROTECTION RISER DIAGRAM

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: NONE

FP3.00

CONFORMED SET: 05/29/2015

RACEWAYS AND WIRING

R221-1,3 /// — HOMERUN TO PANELBOARD. "R221" INDICATES PANEL, "1,3" INDICATES CIRCUIT NUMBERS, (20A, 1P, UNLESS INDICATED OTHERWISE) NUMBER OF SLASH MARKS INDICATE NUMBER OF #12AWG CONDUCTORS IN MINIMUM 3/4"C. NO SLASH MARKS INDICATE 2#12 & 1#12G-3/4"C. UNLESS INDICATED OTHERWISE. MULTIPLE CIRCUITS FOR POWER DEVICES SHALL NOT SHARE NEUTRAL CONDUCTORS.

NOTES:
1. GREEN GROUND CONDUCTOR NOT INDICATED BUT SHALL BE INCLUDED IN EACH RACEWAY. SIZE SHALL BE #12AWG UNLESS INDICATED OTHERWISE.
2. HOMERUNS TO PANELBOARDS SHALL HAVE A MAXIMUM OF THREE (3) PHASE CONDUCTORS (ONE PER PHASE) PLUS NEUTRAL AND GROUND CONDUCTORS IN EACH CONDUIT.

(6) — FEEDER TAG – REFER TO LEGEND OF FEEDER SIZES

LIGHTING FIXTURES

F1 2 a — FLUORESCENT LIGHTING FIXTURE CEILING OR RECESSED MOUNTED. "F1" INDICATES FIXTURE TYPE, "2" INDICATES CIRCUIT NUMBER, "a" INDICATERS SWITCH CONTROL, "◢" INDICATES WIRED TO EMERGENCY POWER SYSTEM

FLUORESCENT BARE LAMP STRIP OR INDUSTRIAL STRIP "●" INDICATES WIRED TO EMERGENCY POWER SYSTEM

FLUORESCENT UNDERCOUNTER TASK LIGHT

LED OR COMPACT FLUORESCENT RECESSED OR SURFACE MOUNTED LIGHTING FIXTURE

WALL MOUNTED LIGHTING FIXTURE

WALL WASH OR DIRECTIONAL LIGHTING FIXTURE

CEILING MOUNTED ILLUMINATED EXIT SIGN, ARROWS AS INDICATED ON DRAWINGS

WALL MOUNTED ILLUMINATED EXIT SIGN

F1 — ARROW INDICATES TYPICAL LIGHTING FIXTURES IN CONTINUOUS ROW. FURNISH AND INSTALL ALL CORNERS, ENDCAPS, EXTENSIONS AND FITTINGS AS RQUIRED FOR A COMPLETE INSTALLATION

TOGGLE SWITCHES (MOUNTED 48" AFF)

S_e — SINGLE POLE TOGGLE SWITCH. "e" INDICATES FIXTURE CONTROL

S_3 — THREE WAY TOGGLE SWITCH

S_4 — FOUR WAY TOGGLE SWITCH

S_K — KEY OPERATED SWITCH

S^P — SINGLE POLE TOGGLE SWITCH WITH PILOT LIGHT

D1 — LED DIMMER SWITCH – PROVIDE NECESSARY DRIVERS.

FD — FLUORESCENT DIMMER SWITCH

LOW VOLTAGE LIGHTING CONTROL RELAY "Z#" INDICATES LIGHTING CONTROLLED ZONE

V^C — OCCUPANCY SENSOR LIGHTING CONTROL, "C" INDICATES CEILING MOUNTED

PC — PHOTOCELL FOR DAY LIGHT HARVESTING

MS — MASTER CONTROL STATION – 5 BUTTON SCENE SELECT WITH CONTROL SWITCH. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.

CS — CONTROL STATION – ZONE SCENE SELECTION CONTROL UNIT

RECEPTACLES (MOUNTED 18" AFF)

R21-2 / E — DUPLEX RECEPTACLE, "R21" INDICATES PANEL, "2" INDICATES CIRCUIT NUMBER, "E" INDICATES WIRED TO EMERGENCY PANEL.

DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER TOP

DUPLEX RECEPTACLE WITH INTERGRAL GROUND FAULT INTERRUPTER

DUPLEX RECEPTACLE WITH INTERGRAL GROUND FAULT INTERRUPTER MOUNTED 6" ABOVE COUNTER TOP

DOUBLE DUPLEX RECEPTACLE

DUPLEX RECEPTACLE WITH INTERGRAL GROUND FAULT INTERRUPTER MOUNTED ABOVE COUNTER COUNTER FOR WATER POLISHING EQUIPMENT. COORDINATE EXACT LOCATION WITH ARCHITECT.

DUPLEX RECEPTACLE FLOOR MOUNTED

(2) — SPECIAL PURPOSE RECEPTACLE, "2" INDICATES TYPE, SEE SPECIAL PURPOSE RECEPTACLE SCHEDULE

SURFACE MOUNTED RACEWAY EQUAL TO WIREMOLD AL3300 SERIES WITH DUPLEX RECEPTACLES #18TOC. (UNLESS NOTED OTHERWISE). COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL.

FIELD WIRED, UL LISTED, MULTIOUTLET ASSEBLY, DEVICES AS INDICATED SURFACE MOUNTED RACEWAY EQUAL TO WIRE MOLD G-6000 SERIES WITH SPECIAL PURPOSE & DUPLEX RECEPTACLES.

DEVICE LOCATED IN OVERHEAD SERVICE CARRIER. THE OVER HEADED SERVICE CARRIER IS PROVIDED BY OTHERS. DEVICES ARE INSTALLED & WIRED BY E.C.

A/V — MULTI-SERVICE POKE-THRU – EQUAL TO WIREMOLD RC4 SERIES. PROVIDE 1 1/4"C FOR DATA WITH DRAGWIRE UP TO NEAREST CABLE TRAY "A/V" DENOTES AUDIO VISUAL POKE-THUR EQUAL TO EVOLUTION 8TAV SERIES WITH ADDITIONAL PARTS FOR CONDUIT CONNECTIONS:
1. 1125CHA– 1.25" CONDUIT BOTTOM HOUSING ADAPTER
2. 22CHA – 2" CONDUIT BOTTOM HOUSING ADAPTER

WIREWAY

TV — IN-WALL BOX EQUAL TO CHIEF MODEL # PAC516
ELECTRICAL – 1 DUPLEX RECEPTACLE
TECH – REFER TO LOW VOLTAGE PLANS FOR REQUIREMENTS
A/V – REFER TO A/V PLANS FOR REQUIREMENTS

1 — LAB BENCH PEDESTAL WITH ONE DUPLEX RECEPTACLE EQUAL TO WIREMOLD LBP2. PROVIDE ALL NECESSARY ACCESSORIES FOR A COMPLETE SYSTEM.

LAB BENCH PEDESTAL WITH ONE DUPLEX RECEPTACLE ON EACH SIDE EQUAL TO WIREMOLD LBP2. PROVIDE ALL NECESSARY ACCESSORIES FOR A COMPLETE SYSTEM.

POWER DISTRIBUTION EQUIPMENT

DISTRIBUTION PANEL

PANELBOARD, SURFACE MOUNTED

PANELBOARD, FLUSH MOUNTED

J — JUNCTION BOX, SIZED PER NEC

(2) — MOTOR, "2" INDICATES HORSEPOWER

MAGNETIC MOTOR STARTER

S_T S^P_M — MANUAL MOTOR STARTER WITH THERMAL OVERLAOD. "P" INDICATES PILOT LIGHT

$_{6P}$ — NON-FUSED DISCONNECT SWITCH, SIZE AS REQUIRED. "6P" INDICATES 6 POLE

FUSED DISCONNECT SWITCH, SIZE OF SWITCH AND FUSE AS REQUIRED

COMBINATION MAGNETIC STARTER AND FUSED DISCONNECT SWITCH. SIZE OF STARTER, SWITCH AND FUSE AS REQUIRED

T2 — DRY-TYPE TRANSFORMER, "2" INDICATES SIZE, REFER TO DRY TYPE TRANSFORMER SCHEDULE ON DRAWING E5.01

ONE LINE POWER DIAGRAM

LOAD-BREAK SWITCH

FUSE, SIZE AS INDICATED

TRANSFORMER, SIZE AS INDICATED

CIRCUIT BREAKER

DRAW-OUT CIRCUIT BREAKER

KI — KIRK-KEY INTERLOCK

CURRENT TRANSFORMER

POTENTIAL TRANSFORMER

SSM — SOLID STATE TRIP UNIT

GROUND

A — AMMETER

AS — AMMETER SWITCH

V — VOLTMETER

VS — VOLTMETER SWITCH

VFD — VARIABLE FREQUENCY DRIVE SUPPLIED AND INSTALLED BY THE HVAC CONTRACTOR, WIRED BY E.C.

TVSS — TRANSIENT VOLTAGE SURGE SUPPRESSION. REFER TO SPECIFICATIONS.

ATC — AUTOMATIC TRANSFER CONTROLS – REFER TO SPECIFICATIONS FOR REQUIREMENTS.

MISCELLANEOUS

J AD — CONNECTION TO AUTOMATIC DOORS

J MP — CONNECTION TO MOTORIZED PROJECTION SCREEN MOUNTED ABOVE CEILING

J EWC — CONNECTION TO ELECTRIC WATER COOLER

J HT — CONNECTION TO HEAT TRACING – CKT TO GFI C/B IN RESPECTIVE PANEL

J REC — CONNECTION TO RECEPTACLES IN BUILT-UP AIR HANDLING UNIT

J LTG — CONNECTION TO LIGHTS IN BUILT-UP AIR HANDLING UNIT

J E ATC — ELECTRICAL CONTRACTOR SHALL PROVIDE 120V, 20AMP CIRCUIT TO JUNCTION BOX MOUNTED ABOVE CEILING. ATC CONTRACTOR SHALL WIRE FROM THE JUNCTION BOX TO EACH INDIVIDUAL DDC BOX AS REQUIRED. REFER TO MECHANICAL PLANS FOR QUANTITIES AND LOCATION.

J FH — JUNCTION BOX MOUNTED ABOVE FUME HOOD FOR CONNECTION TO FUME HOOD COMPONENTS; (2) 120V, 20AMP CIRCUITS WIRED BY THE EC TO THE TERMINAL BOX.

CP — UNIT MOUNTED CONTROL PANEL, FURNISHED WITH DISCONNECT SWITCH/STARTERS BY OTHERS.

MD — MOTORISED DAMPER

FSD — FIRE SMOKE DAMPER

SYMBOL LIST

MOUNTING HEIGHTS SHALL BE AS INDICATED UNLESS SHOWN OTHERWISE ON ELECTRICAL DRAWINGS OR ARCHITECTURAL ELEVATIONS

ABBREVIATIONS

A	AMPERES
AF	AMPERE FRAME (CIRCUIT BREAKER RATING)
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ARCH	ARCHITECT
AT	AMPERE TRIP (CIRCUIT BREAKER RATING)
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GUAGE
BLDG	BUILDING
C	CONDUIT
C.B.	CIRCUIT BREAKER
C.T.	CURRENT TRANSFORMER
CAT	CATALOG
CIR	CIRCUIT
COL	COLUMN
CU	COPPER
△	DELTA
DWG	DRAWING
E	WIRED ON EMERGENCY CIRCUIT
EC	EMPTY CONDUIT
EM	EMERGENCY
ENL	EXISTING IN NEW LOCATION
ETD	EXISTING TO BE DEMOLISHED AND REMOVED
ETR	EXISTING TO REMAIN
ETRL	EXISTING TO BE REMOVED AND REUSED/RELOCATED
F	FLUSH
FT	FEET
G	GROUND
KCMIL	ONE THOUSAND CIRCULAR MILS
KVA	KILOVOLT-AMPERES
KVAR	KILOVOLT-AMPERES REACTIVE
KW	KILOWATTS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
#	PHASE
P	POLE
P.T.	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
R	RECESSED
S	SURFACE
SCR	SHORT CIRCUIT INTERRUPTING RATING
SP	SPARE
SW	SWITCH
TEL	TELEPHONE
UG	UNDERGROUND
V	VOLT
Y	WYE
W	WATT
WP	WEATHERPROOF
XFMR	TRANSFORMER

SPECIAL PURPOSE RECEPTACLE SCHEDULE

SYMBOL	NEMA	DESCRIPTION	HUBBELL CAT. No.	ARROW HART CAT. No.	BRYANT CAT. No.	LEVITON CAT. No.	C.B.	BRANCH CIRCUIT
1	5-20R	20A – 125V, 2P, 3W	5261	5361	5351	5361	1P-20A	2#12 & 1#12G-3/4"C
2	5-30R	30A – 125V, 2P, 3W	9308	5716	9530	5371	1P-30A	2#10 & 1#10G-3/4"C
3	5-50R	50A – 125V, 2P, 3W	9360	5711	9550	5373	1P-50A	2#6 & 1#10G-3/4"C
4	6-20R	20A – 250V, 2P, 3W	5461	5461	5461	5461	2P-20A	2#12 & 1#12G-3/4"C
5	6-30R	30A – 250V, 2P, 3W	9330	5700	9630	5372	2P-30A	2#10 & 1#10G-3/4"C
6	6-50R	50A – 250V, 2P, 3W	9367	5709	9650	5374	2P-50A	2#6 & 1#10G-3/4"C
7	14-20R	20A – 125/250V, 3P, 4W	8410	5759	---	---	2P-20A	3#12 & 1#12G-3/4"C
8	14-30R	30A – 125/250V, 3P, 4W	9430A	5744	9430	278	2P-30A	3#10 & 1#10G-3/4"C
9	14-50R	50A – 125/250V, 3P, 4W	9450A	5754	9450	279	2P-50A	3#6 & 1#10G-1"C
10	14-60R	60A – 125/250V, 3P, 4W	9460A	9460	9460	9460A	2P-60A	3#6 & 1#10G-1"C
11	15-20R	20A – 250V, 3ø, 3P, 4W	8420	5781	---	---	3P-20A	3#12 & 1#12G-3/4"C
12	15-30R	30A – 250V, 3ø, 3P, 4W	8430A	8430	8430	8430A	3P-30A	3#10 & 1#10G-3/4"C
13	15-50R	50A – 250V, 3ø, 3P, 4W	8450A	8450	8450	8450A	3P-50A	3#6 & 1#10G-1"C
14	15-60R	60A – 250V, 3ø, 3P, 4W	8460A	8460	8460	8460A	3P-60A	3#6 & 1#10G-1"C
15	L5-20R	20A – 125V, 2P, 3W, TWIST LOCK	2310A	6200	70520	2310	1P-20A	2#12 & 1#12G-3/4"C
16	L5-30R	30A – 125V, 2P, 3W, TWIST LOCK	2610A	6330	70530	2610	1P-30A	2#10 & 1#10G-3/4"C
17	L6-20R	20A – 250V, 2P, 3W, TWIST LOCK	2320A	6210	70620	2320	2P-20A	2#12 & 1#12G-3/4"C
18	L6-30R	30A – 250V, 2P, 3W, TWIST LOCK	2620	6340	70630	2620	2P-30A	2#10 & 1#10G-3/4"C
19	L15-30R	30A – 250V, 3ø, 3P, 4W					3P-30A	3#10 & 1#10G-3/4"C

MOTOR WIRING SCHEDULE

(FOR SINGLE SPEED, 480 VOLT MOTORS ONLY)

HORSE POWER	FEEDER – 480VOLT, 3ø, 3WIRE
1/2	3#12 & 1#12G – 3/4"C.
3/4	3#12 & 1#12G – 3/4"C.
1	3#12 & 1#12G – 3/4"C.
1 1/2	3#12 & 1#12G – 3/4"C.
2	3#12 & 1#12G – 3/4"C.
3	3#12 & 1#12G – 3/4"C.
5	3#10 & 1#10G – 3/4"C.
7.5	3#10 & 1#10G – 3/4"C.
10	3#10 & 1#10G – 3/4"C.
15	3#8 & 1#8G – 3/4"C.
20	3#6 & 1#8G – 1"C.
25	3#6 & 1#6G – 1"C.
30	3#4 & 1#6G – 1 1/4"C.
40	3#3 & 1#6G – 1 1/4"C.
50	3#1 & 1#6G – 1 1/2"C.
60	3#1/0 & 1#4G – 2"C.
75	3#2/0 & 1#4G – 2"C.
100	3#3/0 & 1#3G – 2"C.
125	3#4/0 & 1#2G – 2 1/2"C.
150	3#350KCMIL & 1#1G – 3"C.
200	3#500KCMIL & 1#1G – 3"C.

BRANCH CIRCUIT WIRING NOTES:

1. WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS
2. WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS
3. ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT AS REQUIRED
4. ALTHOUGH ALL BRANCH CIRCUIT WIRING AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED
5. A GREEN GROUNDING CONDUCTOR SHALL BE RUN WITH ALL CIRCUITS. VERIFY CONDUIT SIZE TO ENSURE IT CAN ACCOMODATE ALL PHASE, NEUTRAL AND GROUND CONDUCTORS.

GENERAL LIGHTING FIXTURE NOTES:

1. EXACT LOCATION AND LENGTHS OF LIGHTING FIXTURES SHALL BE PER ARCHITECT'S REFLECTED CEILING PLANS, AND AS INDICATED ON THE ARCHITECTURAL PLANS, ARCHITECTURAL DETAILS, ELEVATIONS, ETC..
2. EXIT SIGNS SHALL BE PROVIDED WITH NUMBER OF FACES, AND DIRECTIONAL ARROWS AS INDICATED ON THE ELECTRICAL PLANS.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	EQUAL MANUFACTURER	LAMP DATA NO.	LAMP DATA WATTS	LAMP DATA TYPE	VOLTS	MOUNTING	DESCRIPTION	NOTES
B1	METALUX	IC-232-120-EB81-WG	LITHONIA COLUMBIA	2	32	F032/835	277	PENDANT	4'-0" FLUORESCENT INDUSTRIAL STRIP FIXTURE W/WIREGUARD	
B1 LED ALT.	METALUX	VT-L02-58-DR-W-269V-L835-VT2-CHAIN/SET-U-VT2-SS-MBK		1	71	LED/3500	277	PENDANT	4'-0" LED STRIP WITH WRAPAROUND LENS	
B2	HUBBELL	NV2FG26-NV2GG	APPLETON	1	28	CFL26/835	120	WALL	ELEVATOR PIT LIGHT – WALL MOUNT	
B2 LED ALT.	HUBBELL-KILLARK	VSL-16-30-W2PN		1	16	LED/3500	120	WALL	ELEVATOR PIT LIGHT – WALL MOUNT	
B3	NOT USED									
B4	HUBBELL	NRG-3048-PC	CANLET APPLETON	1	42	CFL42/835	120	WALL	OUTDOOR WALL PACK WITH PHOTOCELL OPTION	
B4 LED ALT.	LUMARK	LD-WP-GL-4A-277V-PE-FINISH-VS/WPGL-WP-L-4A		1	LED		277	WALL	OUTDOOR WALL PACK WITH PHOTOCELL OPTION	
EX1	SURELITE	ELX-SERIES	PRESCOLITE DUALITE	1	–		277	WALL/ CEILING		
EX2	SURELITE	ELX-SERIES	PRESCOLITE DUALITE	1 1	– –		277	WALL/ CEILING		
EX3	SURELITE	CAX-SERIES	PRESCOLITE DUALITE	1	–		277	WALL/ CEILING		
EX4	SURELITE	CAX-SERIES	PRESCOLITE DUALITE	2	9		277	WALL/ CEILING		
EB	COOPER	XR-SERIES	PRESCOLITE DUALITE				277	WALL		

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NO.	DATE	COMMENTS
1	05/20/2015	ADDENDUM 1

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KEY PLAN:

PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:

ELECTRICAL SYMBOL LIST, LEGEND & SCHEDULES

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: NONE

E-001

CONFORMED SET: 05/29/2015

THE ELECTRICAL CONTRACTOR SHALL COORDINATE MANHOLE TERMINATIONS WITH UCONN/ FACILITIES.

COORDINATE GROUND LOOP ROUTING WITH NEW TUNNEL

TO GROUND BUS BAR IN MAIN ELECTRICAL ROOM. SEE DETAIL DWG. E-300 CONTINUATION.

TO EUSB-4 PRIMARY SWITCH REFER TO DWG E-300 & E-502 FOR EQUIPMENT LOCATION

MAIN ELECTRICAL ROOM

APPROXIMATE LOCATION OF MAIN EMERGENCY ELECTRICAL ROOM

TO US4B-1 PRIMARY LOOP SWITCH REFER TO DWG E-300 & E-501 FOR CONTINUATION

TO US4B-2 PRIMARY LOOP SWITCH REFER TO DWG E-300 & E-501 FOR EQUIPMENT LOCATION

APPROXIMATE LOCATION

APPROXIMATE LOCATION

ENT FACILITY/CONTROL EQUIP RM

36X36X12 NEMA 4 HINGED COVER JB

(4) 4" RGS CONDUIT FROM JB TO BUILDING ENTRANCE ROOM

CONDUIT UP TO CEILING

10'-0" GROUND ROD WITH TEST WELL. SEE DETAIL ON THIS DRAWING. PROVIDE EVERY 25' AROUND BUILDING.

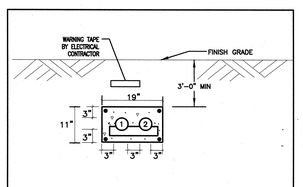
500KCMIL GROUND LOOP

PROVIDE LINK SEAL AT FOUNDATION WALL

APPROXIMATE LOCATION OF NEW MANHOLE. MANHOLE WILL BE IN ACCORDANCE WITH UCONN SPECIFICATIONS. FINAL LOCATION TO BE COORDINATED WITH OWNER.

(4) 4" SCHEDULE 40 CONCRETE ENCASED DUCT. SEE UCONN UITS SPEC FOR ADDITIONAL INFORMATION

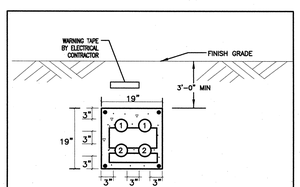
TELECOM MH-79



① - 3 - 1/C - 250MCM, 5KV & 1#40-5"C

② - 5" PVC - SPARE - PROVIDE PULL STRING

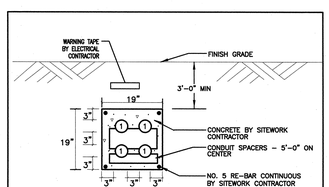
1 DUCTBANK SECTION "A1-A1" NTS



① - 3 - 1/C - 500MCM, 15KV , EPR, 1 #4/0G-5"C

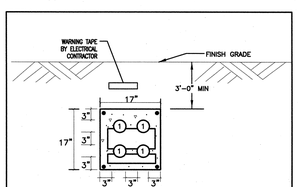
② - 5" PVC - SPARE - PROVIDE PULL STRING

2 DUCTBANK SECTION "A2-A2" NTS



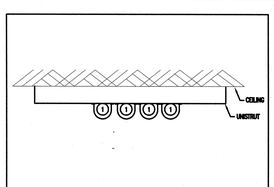
① - 5" PVC - SPARE - PROVIDE PULL STRING

3 DUCTBANK SECTION "A3-A3" NTS



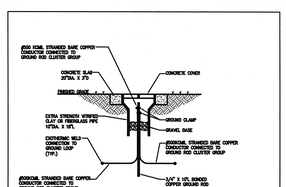
① - 4" PVC FOR TELECOM - PROVIDE PULL STRING

4 DUCTBANK SECTION "B1-B1" NTS



① - 4" RGS FOR TELECOM - PROVIDE PULL STRING

5 DUCTBANK SECTION "B2-B2" NTS



① GROUND LOOP TEST WELL N.T.S.

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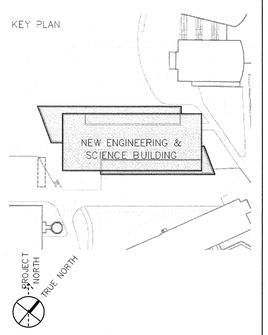
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

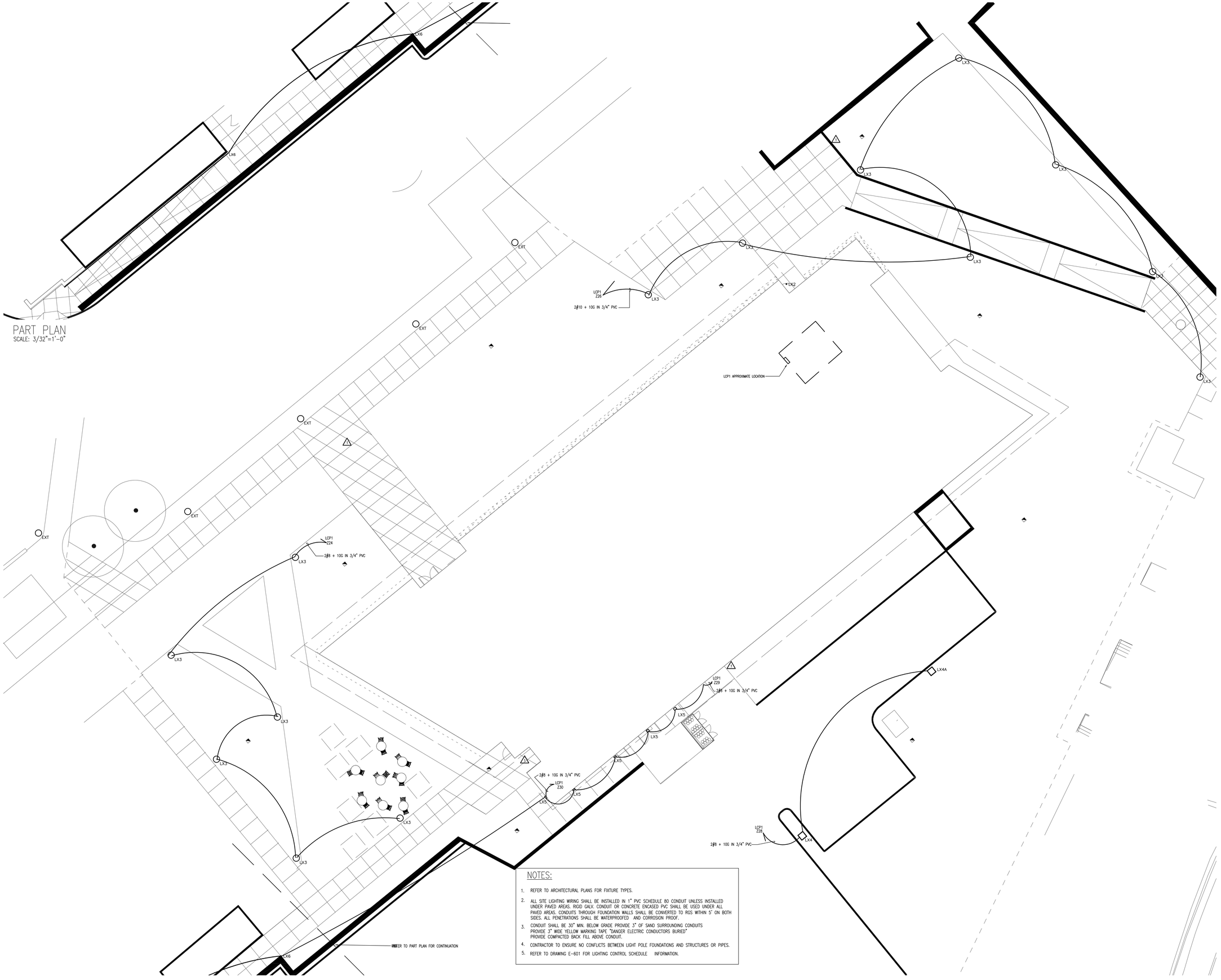
Drawing Title:

ELECTRICAL SITE PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 3/32"=1'-0"

E-100

CONFORMED SET: 05/29/2015



PART PLAN
SCALE: 3/32"=1'-0"

NOTES:

1. REFER TO ARCHITECTURAL PLANS FOR FIXTURE TYPES.
2. ALL SITE LIGHTING WIRING SHALL BE INSTALLED IN 1" PVC SCHEDULE 80 CONDUIT UNLESS INSTALLED UNDER PAVED AREAS. RIGID GALV. CONDUIT OR CONCRETE ENCASED PVC SHALL BE USED UNDER ALL PAVED AREAS. CONDUITS THROUGH FOUNDATION WALLS SHALL BE CONVERTED TO RGS WITHIN 5' ON BOTH SIDES. ALL PENETRATIONS SHALL BE WATERPROOFED AND CORROSION PROOF.
3. CONDUIT SHALL BE 30" MIN. BELOW GRADE PROVIDE 3" OF SAND SURROUNDING CONDUITS PROVIDE 3" WIDE YELLOW MARKING TAPE "DANGER ELECTRIC CONDUCTORS BURIED" PROVIDE COMPACTED BACK FILL ABOVE CONDUIT.
4. CONTRACTOR TO ENSURE NO CONFLICTS BETWEEN LIGHT POLE FOUNDATIONS AND STRUCTURES OR PIPES.
5. REFER TO DRAWING E-601 FOR LIGHTING CONTROL SCHEDULE INFORMATION.

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1	05/08/2015	ADDENDUM 6

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KEY PLAN:

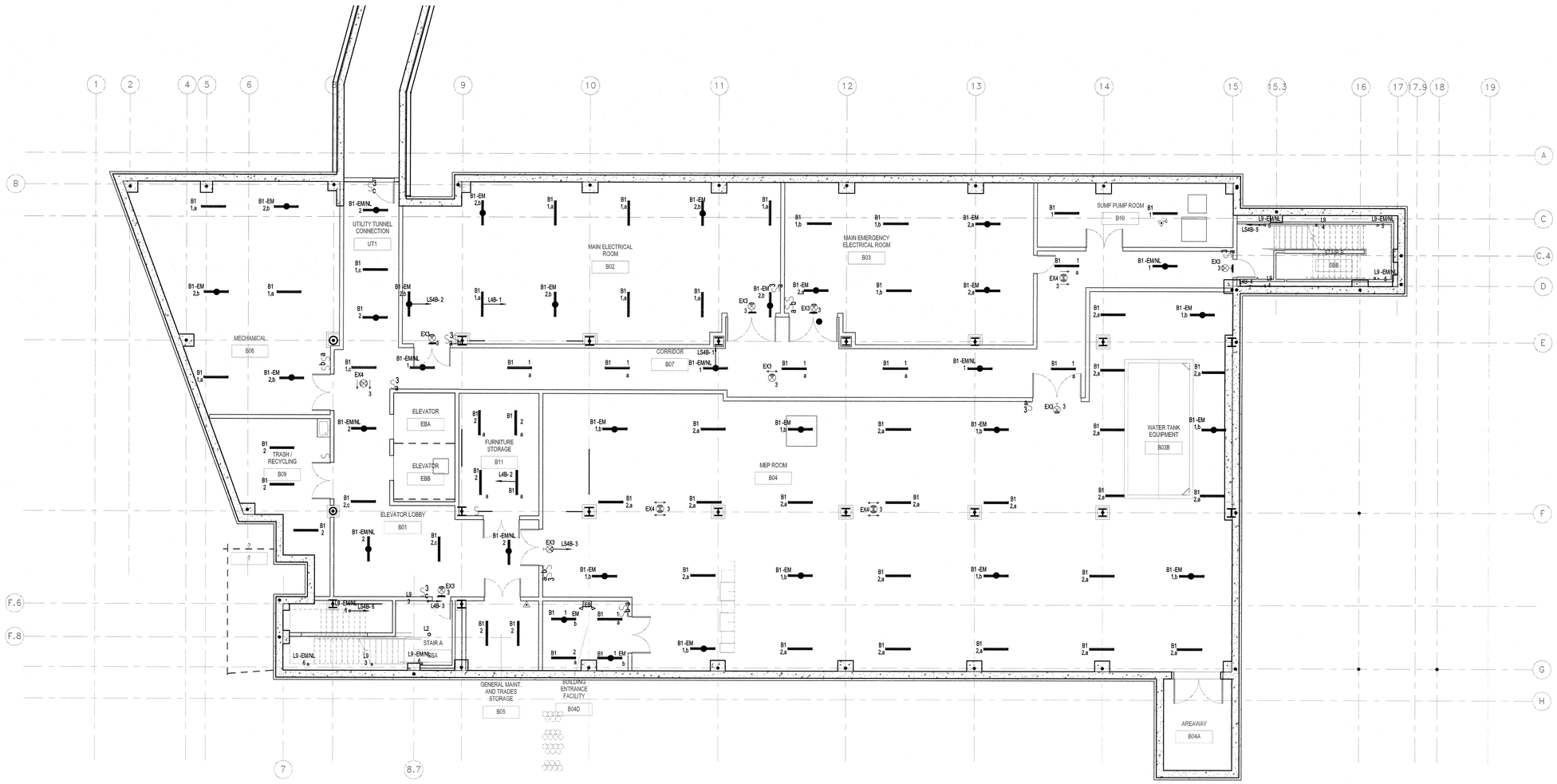
PROJECT:
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:
ELECTRICAL
BASEMENT LEVEL
LIGHTING PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 3/32"=1'-0"

CONFORMED SET: 05/29/2015

E-101



LIGHTING NOTES:

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LIGHTING LAYOUTS AND LOCATIONS OF ALL FIXTURES AND TYPES.
2. REFER TO DRAWING E0.01 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, GENERAL NOTES AND FOR PARTIAL FIXTURE SCHEDULE.
3. LOCATION AND GROUPING ARRANGEMENT/ORIENTATION OF ALL SWITCHES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION. (TYPICAL)
4. ALL EXIT SIGNS SHALL BE CONNECTED TO A 'CONSTANT-ON' EMERGENCY (LIFE SAFETY) CIRCUIT. PROVIDE 'LOCK-ON' CIRCUIT BREAKER AT PANELBOARD (TYPICAL).
5. LIGHTING CONTROL SYSTEM SHALL BE PROVIDED WITH EMERGENCY POWER UL924 MODULE FOR EGRESS LIGHTING.
6. SWITCHED EMERGENCY LIGHTING SHALL BE PROVIDED WITH UL924 BYPASS RELAY.
7. PROVIDE UL 924 RELAY TO PROVIDE EMERGENCY POWER TO LIGHTING FIXTURE REGARDLESS OF SWITCH POSITION. PROVIDE NORMAL CIRCUIT AND ALL ASSOCIATED WIRING FOR RELAY SENSING CIRCUIT.
8. INDICATES FIXTURE SHALL BE CONNECTED TO "CONSTANT-ON" EMERGENCY (LIFE SAFETY) CIRCUIT. PROVIDE "LOCK-ON" CIRCUIT BREAKER AT PANELBOARD. (TYPICAL)
9. ALL NORMAL POWER CORRIDOR LIGHTING SHALL BE CONTROLLED VIA RESPECTIVE FLOOR LIGHTING CONTROL PANEL. REFER TO DRAWING E-903
10. ALL NORMAL POWER CORRIDOR LIGHTING SHALL BE CONTROLLED VIA RESPECTIVE FLOOR LIGHTING CONTROL PANEL. REFER TO DRAWING E-903 FOR MORE INFORMATION.

01 Basement – FLOOR PLAN – LIGHTING
1/8" = 1'-0"

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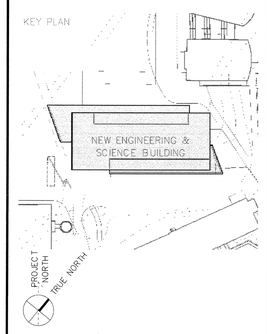
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

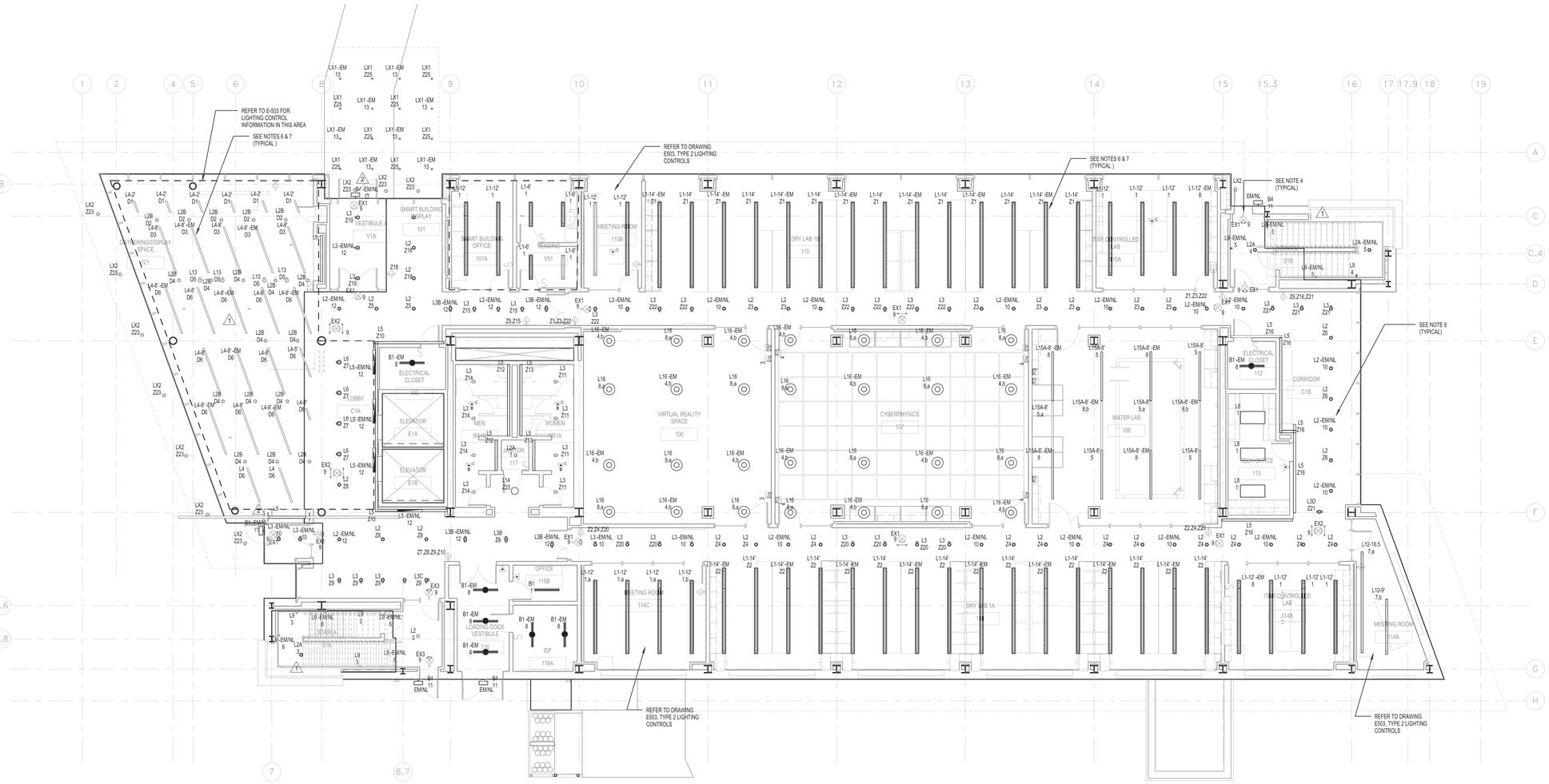
Drawing Title:

ELECTRICAL BASEMENT – LIGHTING PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

E–200

CONFORMED SET: 05/29/2015



01 Floor 1 – FLOOR PLAN – LIGHTING
1/8" = 1'-0"

GATHERING/DISPLAY SPACE 121

ZONE DESIGNATION	CKT & NUMBER		FLOOR	LOCATION	TYPE	True Voltage	DIMMING	LAMP	True Load	QUANTITY	TOTAL WATTS	ADDITIONAL REMARKS
D1	L41	9	Floor 1	Space	L4-2'	277 V		LED	24 W	6	144 W	
D2	L41	9	Floor 1	Space	L2B	277 V		3000K LED	29 W	5	145 W	
D3	L41	9	Floor 1	Space	L4-8'	277 V		LED	96 W	5	480 W	
D4	L41	9	Floor 1	Space	L2B	277 V		3000K LED	29 W	5	145 W	
D4	L41	10	Floor 1	Space	L2B	277 V		3000K LED	29 W	8	232 W	
D5	L41	9	Floor 1	Space	L13	277 V		LED	20 W	4	80 W	
D6	L41	9	Floor 1	Space	L4-8'	277 V		LED	96 W	5	480 W	
D6	L41	10	Floor 1	Space		277 V		LED		10	804 W	
Grand total: 48											2510 W	

LIGHTING NOTES:

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LIGHTING LAYOUTS AND LOCATIONS OF ALL FIXTURES AND TYPES. REFER TO E-001 FOR B TYPE FIXTURE INFORMATION AND DETAILS
2. REFER TO DRAWING E0.01 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, GENERAL NOTES AND FOR PARTIAL FIXTURE SCHEDULE.
3. LOCATION AND GROUPING ARRANGEMENT/ORIENTATION OF ALL SWITCHES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION. (TYPICAL)
4. ALL EXIT SIGNS SHALL BE CONNECTED TO A "CONSTANT-ON' EMERGENCY (LIFE SAFETY) CIRCUIT. PROVIDE 'LOCK-ON' CIRCUIT BREAKER AT PANELBOARD (TYPICAL).
5. LIGHTING CONTROL SYSTEM SHALL BE PROVIDED WITH EMERGENCY POWER UL924 MODULE FOR EGRESS LIGHTING.
6. SWITCHED EMERGENCY LIGHTING SHALL BE PROVIDED WITH UL924 BYPASS RELAY.
7. PROVIDE UL 924 RELAY TO PROVIDE EMERGENCY POWER TO LIGHTING FIXTURE REGARDLESS OF SWITCH POSITION. PROVIDE NORMAL CIRCUIT AND ALL ASSOCIATED WIRING FOR RELAY SENSING CIRCUIT.
8. INDICATES FIXTURE SHALL BE CONNECTED TO "CONSTANT-ON" EMERGENCY (LIFE SAFETY) CIRCUIT. PROVIDE "LOCK-ON" CIRCUIT BREAKER AT PANELBOARD. (TYPICAL)
9. ALL NORMAL POWER CORRIDOR LIGHTING SHALL BE CONTROLLED VIA RESPECTIVE FLOOR LIGHTING CONTROL PANEL. REFER TO DRAWING E-503
10. ALL NORMAL POWER CORRIDOR LIGHTING SHALL BE CONTROLLED VIA RESPECTIVE FLOOR LIGHTING CONTROL PANEL. REFER TO DRAWING E-503 FOR MORE INFORMATION.
11. ALL UNDERCOUNTER TASK LIGHTING UNLESS NOTED SHALL BE CONNECTED TO THE NEAREST UNSWITCHED RECEPTACLE CIRCUIT. FIXTURE CONTROL SHALL BE VIA ROCKER SWITCH ON FIXTURE.

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ISSUE/REVISION:		
NO.	DATE	COMMENTS
1.	2015-03-23	3rd ADDENDUM 01
2.	2015-05-06	ADDENDUM 06

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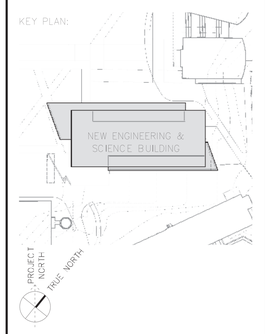
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

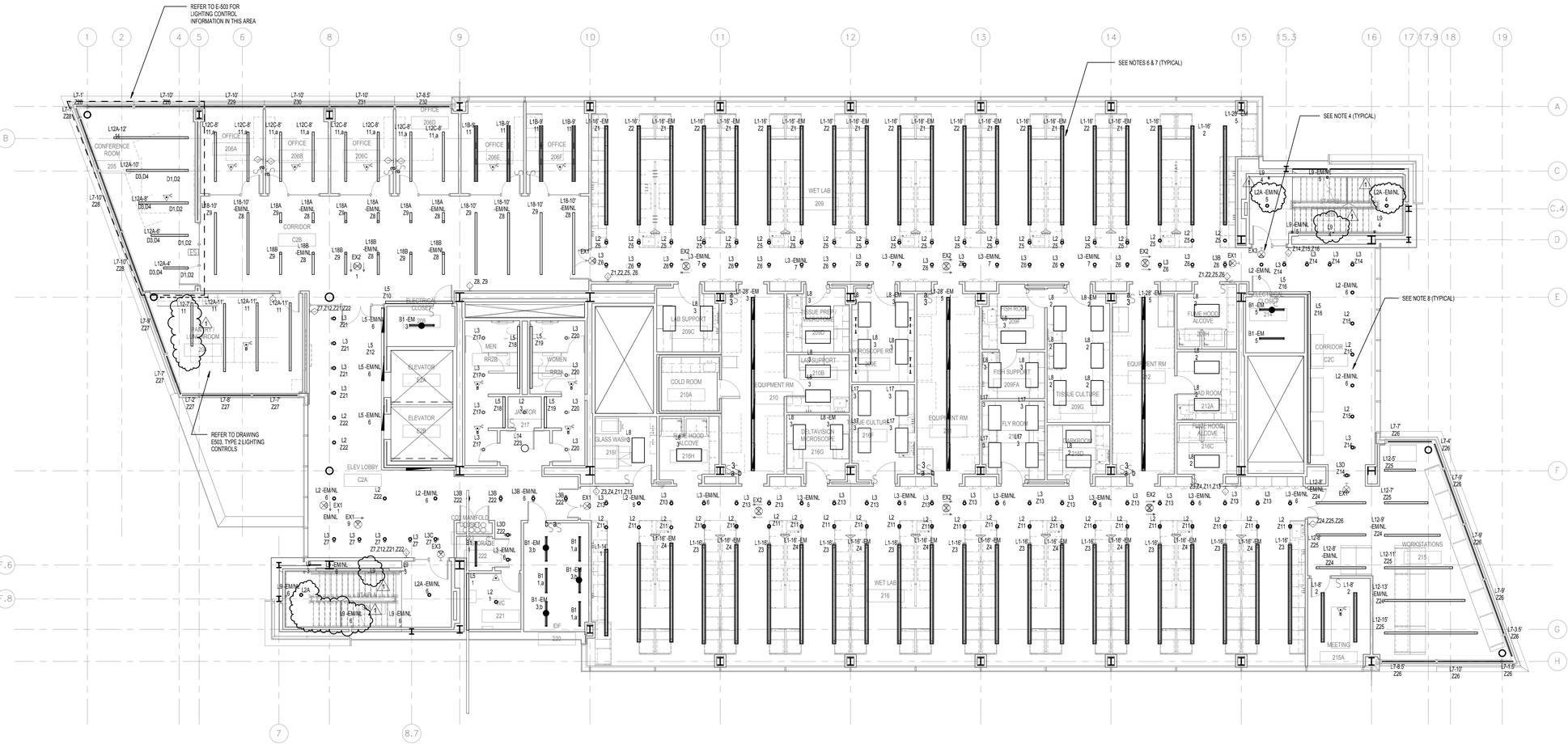
DRAWING TITLE:

ELECTRICAL FLOOR 1 – LIGHTING PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

E–201

CONFORMED SET: 05/29/2015



01 Floor 2 – FLOOR PLAN – LIGHTING
1/8" = 1'-0"

MEETING/BREAKOUT SPACE 205

ZONE DESIGNATION	CKT & NUMBER		FLOOR	LOCATION	TYPE	VOLTAGE	DIMMING	LAMP	TRUE LOAD	QUANTITY	TOTAL WATTS	ADDITIONAL REMARKS
D1	L42	14	FLOOR 2	MEETING &BREAKOUT SPACE 405	L12A	277	YES	LED	4.6W/LF	4	73.6 W	UPLIGHT
D2	L42	14	FLOOR 2	MEETING &BREAKOUT SPACE 405	L12A	277	YES	LED	9.25W/LF	4	170.2 W	DOWNLIGHT
D3	L42	14	FLOOR 2	MEETING &BREAKOUT SPACE 405	L12A	277	YES	LED	4.6W/LF	5	105.8 W	UPLIGHT
D4	L42	14	FLOOR 2	MEETING &BREAKOUT SPACE 405	L12A	277	YES	LED	9.25W/LF	5	212.75 W	DOWNLIGHT

LIGHTING NOTES:

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LIGHTING LAYOUTS AND LOCATIONS OF ALL FIXTURES AND TYPES. REFER TO E-001 FOR B TYPE FIXTURE INFORMATION AND DETAILS
2. REFER TO DRAWING E0.01 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, GENERAL NOTES AND FOR PARTIAL FIXTURE SCHEDULE.
3. LOCATION AND GROUPING ARRANGEMENT/ORIENTATION OF ALL SWITCHES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION. (TYPICAL)
4. ALL EXIT SIGNS SHALL BE CONNECTED TO A "CONSTANT-ON' EMERGENCY (LIFE SAFETY) CIRCUIT. PROVIDE 'LOCK-ON' CIRCUIT BREAKER AT PANELBOARD (TYPICAL).
5. LIGHTING CONTROL SYSTEM SHALL BE PROVIDED WITH EMERGENCY POWER UL924 MODULE FOR EGRESS LIGHTING.
6. SWITCHED EMERGENCY LIGHTING SHALL BE PROVIDED WITH UL924 BYPASS RELAY.
7. PROVIDE UL 924 RELAY TO PROVIDE EMERGENCY POWER TO LIGHTING FIXTURE REGARDLESS OF SWITCH POSITION. PROVIDE NORMAL CIRCUIT AND ALL ASSOCIATED WIRING FOR RELAY SENSING CIRCUIT.
8. INDICATES FIXTURE SHALL BE CONNECTED TO "CONSTANT-ON' EMERGENCY (LIFE SAFETY) CIRCUIT. PROVIDE "LOCK-ON" CIRCUIT BREAKER AT PANELBOARD. (TYPICAL)
9. ALL NORMAL POWER CORRIDOR LIGHTING SHALL BE CONTROLLED VIA RESPECTIVE FLOOR LIGHTING CONTROL PANEL. REFER TO DRAWING E-503
10. ALL NORMAL POWER CORRIDOR LIGHTING SHALL BE CONTROLLED VIA RESPECTIVE FLOOR LIGHTING CONTROL PANEL. REFER TO DRAWING E-503 FOR MORE INFORMATION.

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ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	2015-03-23	BID ADDENDUM 01
3	Date 2	Revision 2

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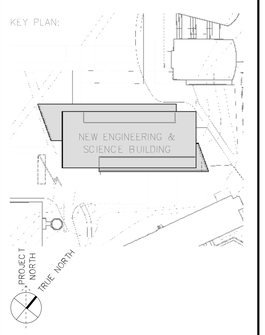
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

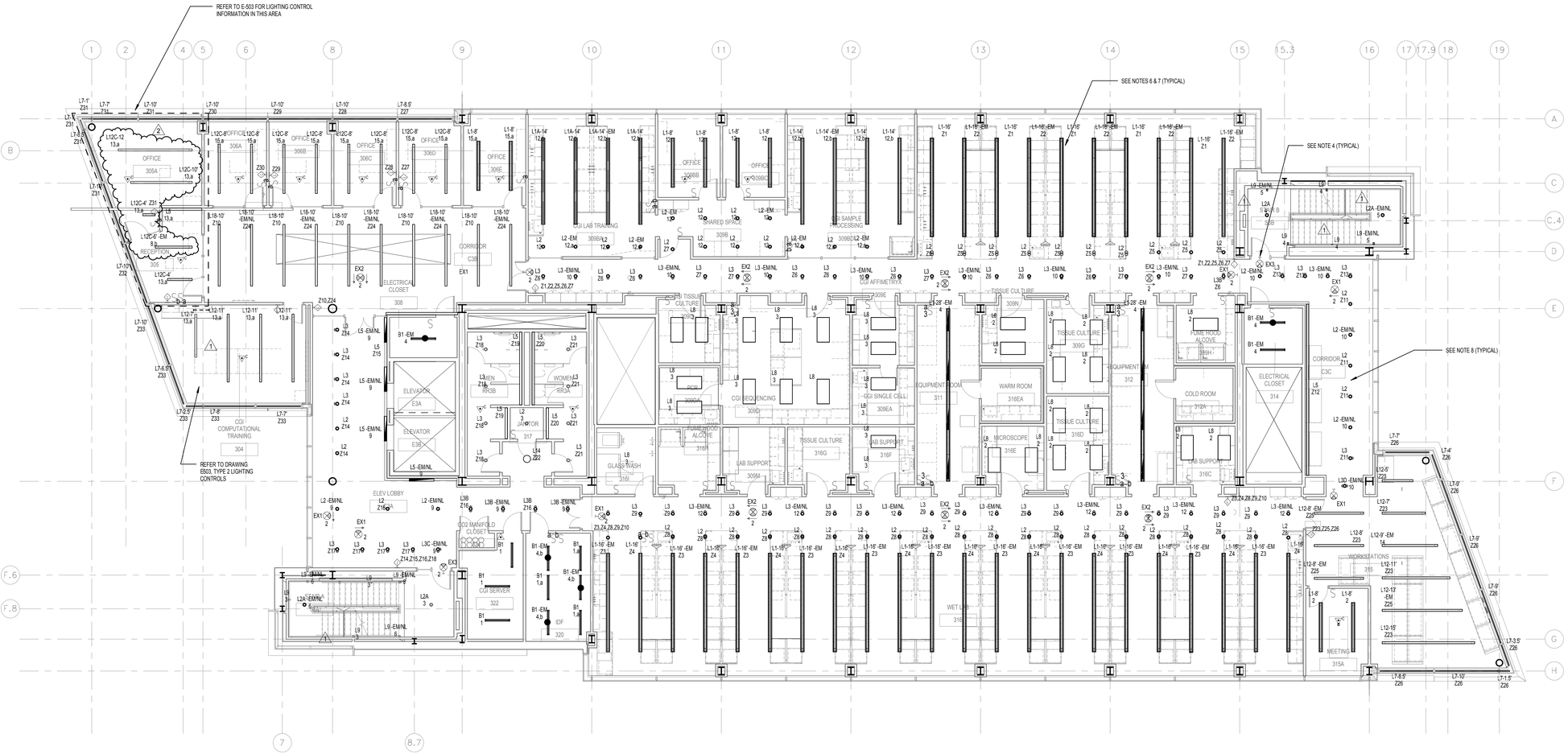
DRAWING TITLE:

ELECTRICAL FLOOR 2 – LIGHTING PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

E–202

CONFORMED SET: 05/29/2015



LIGHTING NOTES:

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LIGHTING LAYOUTS AND LOCATIONS OF ALL FIXTURES AND TYPES. REFER TO E-001 FOR B TYPE FIXTURE INFORMATION AND DETAILS
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4. ALL EXIT SIGNS SHALL BE CONNECTED TO A 'CONSTANT-ON' EMERGENCY (LIFE SAFETY) CIRCUIT. PROVIDE 'LOCK-ON' CIRCUIT BREAKER AT PANELBOARD (TYPICAL).
5. LIGHTING CONTROL SYSTEM SHALL BE PROVIDED WITH EMERGENCY POWER UL924 MODULE FOR EGRESS LIGHTING.
6. SWITCHED EMERGENCY LIGHTING SHALL BE PROVIDED WITH UL924 BYPASS RELAY.
7. PROVIDE UL 924 RELAY TO PROVIDE EMERGENCY POWER TO LIGHTING FIXTURE REGARDLESS OF SWITCH POSITION. PROVIDE NORMAL CIRCUIT AND ALL ASSOCIATED WIRING FOR RELAY SENSING CIRCUIT.
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9. ALL NORMAL POWER CORRIDOR LIGHTING SHALL BE CONTROLLED VIA RESPECTIVE FLOOR LIGHTING CONTROL PANEL. REFER TO DRAWING E-503
10. ALL NORMAL POWER CORRIDOR LIGHTING SHALL BE CONTROLLED VIA RESPECTIVE FLOOR LIGHTING CONTROL PANEL. REFER TO DRAWING E-503 FOR MORE INFORMATION.
11. ALL UNDERCOUNTER TASK LIGHTING UNLESS NOTED SHALL BE CONNECTED TO THE NEAREST UNSWITCHED RECEPTACLE CIRCUIT. FIXTURE CONTROL SHALL BE VIA ROCKER SWITCH ON FIXTURE.

01 Floor 3 – FLOOR PLAN – LIGHTING
1/8" = 1'-0"

CONFORMED SET: 05/29/2015

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ISSUE/REVISION:

NO.	DATE	COMMENTS
1	2015-03-23	BID ADDENDUM 01
2	2015-05-06	ADDENDUM 06

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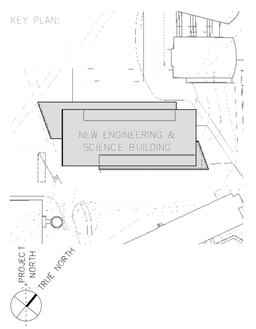
KEY PLAN:



PROJECT:

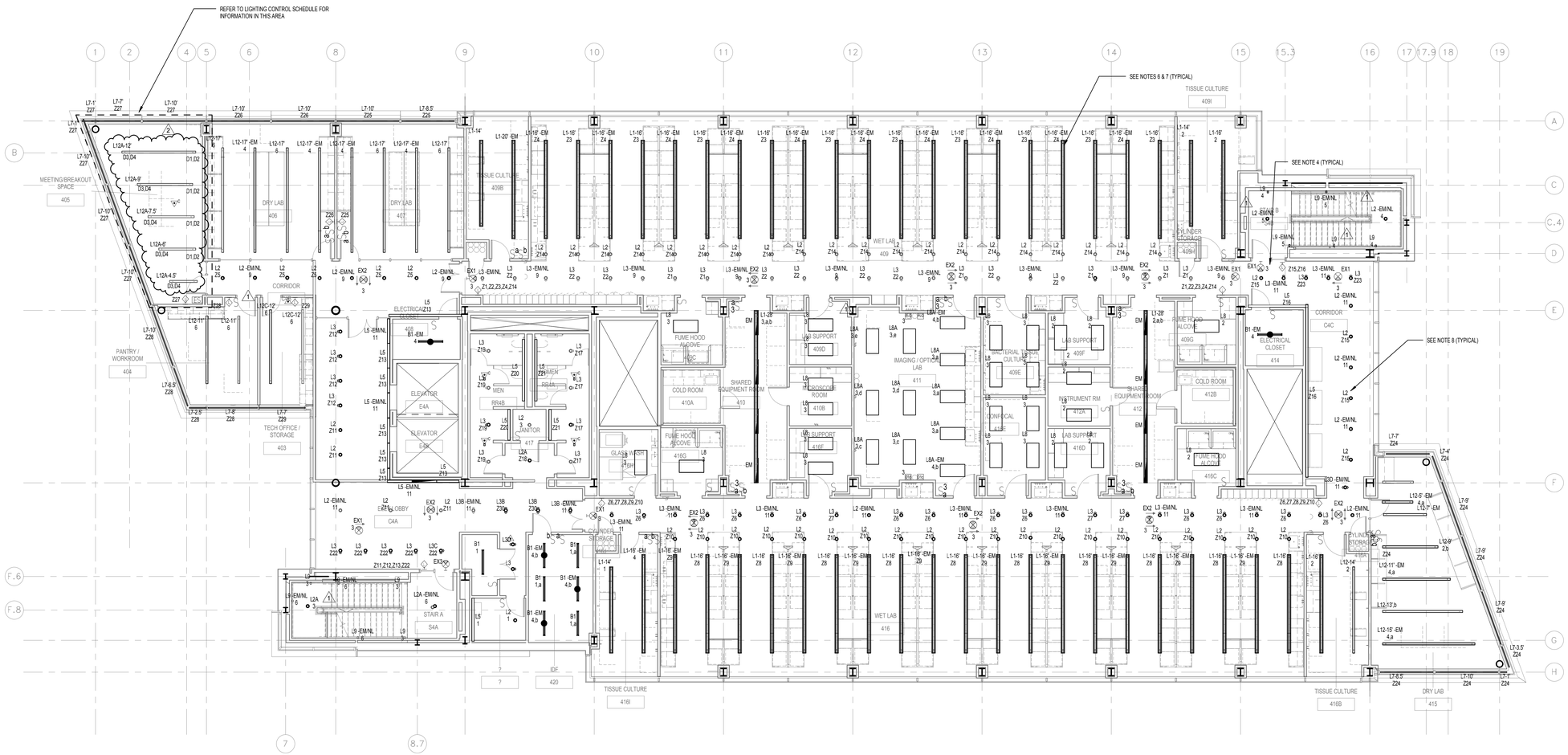
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:

ELECTRICAL FLOOR 3 – LIGHTING PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

E–203



MEETING/BREAKOUT SPACE 405

ZONE DESIGNATION	CKT & NUMBER		FLOOR	LOCATION	TYPE	VOLTAGE	DIMMING	LAMP	TRUE LOAD	QUANTITY	TOTAL WATTS	ADDITIONAL REMARKS
D1	L44	6	FLOOR 4	MEETING &BREAKOUT SPACE 405	L12	277	YES	LED	4.6W/LF	4	73.6 W	UPLIGHT
D2	L44	6	FLOOR 4	MEETING &BREAKOUT SPACE 405	L12	277	YES	LED	9.25W/LF	4	170.2 W	DOWNLIGHT
D3	L44	6	FLOOR 4	MEETING &BREAKOUT SPACE 405	L12	277	YES	LED	4.6W/LF	5	105.8 W	UPLIGHT
D4	L44	6	FLOOR 4	MEETING &BREAKOUT SPACE 405	L12	277	YES	LED	9.25W/LF	5	212.75 W	DOWNLIGHT

LIGHTING NOTES:

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LIGHTING LAYOUTS AND LOCATIONS OF ALL FIXTURES AND TYPES. REFER TO E-001 FOR B TYPE FIXTURE INFORMATION AND DETAILS
2. REFER TO DRAWING E0.01 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, GENERAL NOTES AND FOR PARTIAL FIXTURE SCHEDULE.
3. LOCATION AND GROUPING ARRANGEMENT/ORIENTATION OF ALL SWITCHES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION. (TYPICAL)
4. ALL EXIT SIGNS SHALL BE CONNECTED TO A 'CONSTANT-ON' EMERGENCY (LIFE SAFETY) CIRCUIT. PROVIDE 'LOCK-ON' CIRCUIT BREAKER AT PANELBOARD (TYPICAL).
5. LIGHTING CONTROL SYSTEM SHALL BE PROVIDED WITH EMERGENCY POWER UL924 MODULE FOR EGRESS LIGHTING.
6. SWITCHED EMERGENCY LIGHTING SHALL BE PROVIDED WITH UL924 BYPASS RELAY.
7. PROVIDE UL 924 RELAY TO PROVIDE EMERGENCY POWER TO LIGHTING FIXTURE REGARDLESS OF SWITCH POSITION. PROVIDE NORMAL CIRCUIT AND ALL ASSOCIATED WIRING FOR RELAY SENSING CIRCUIT.
8. INDICATES FIXTURE SHALL BE CONNECTED TO "CONSTANT-ON" EMERGENCY (LIFE SAFETY) CIRCUIT. PROVIDE "LOCK-ON" CIRCUIT BREAKER AT PANELBOARD. (TYPICAL)
9. ALL NORMAL POWER CORRIDOR LIGHTING SHALL BE CONTROLLED VIA RESPECTIVE FLOOR LIGHTING CONTROL PANEL. REFER TO DRAWING E-503
10. ALL NORMAL POWER CORRIDOR LIGHTING SHALL BE CONTROLLED VIA RESPECTIVE FLOOR LIGHTING CONTROL PANEL. REFER TO DRAWING E-503 FOR MORE INFORMATION.
11. ALL UNDERCOUNTER TASK LIGHTING UNLESS NOTED SHALL BE CONNECTED TO THE NEAREST UNSWITCHED RECEPTACLE CIRCUIT. FIXTURE CONTROL SHALL BE VIA ROCKER SWITCH ON FIXTURE.

01 Floor 4 – FLOOR PLAN – LIGHTING
1/8" = 1'-0"

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ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	2015-03-23	BID ADDENDUM 01
2	2015-05-06	ADDENDUM 06

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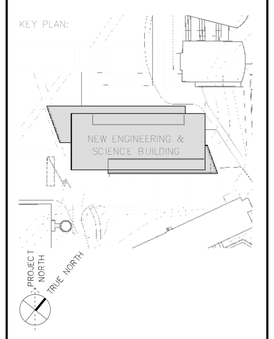
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

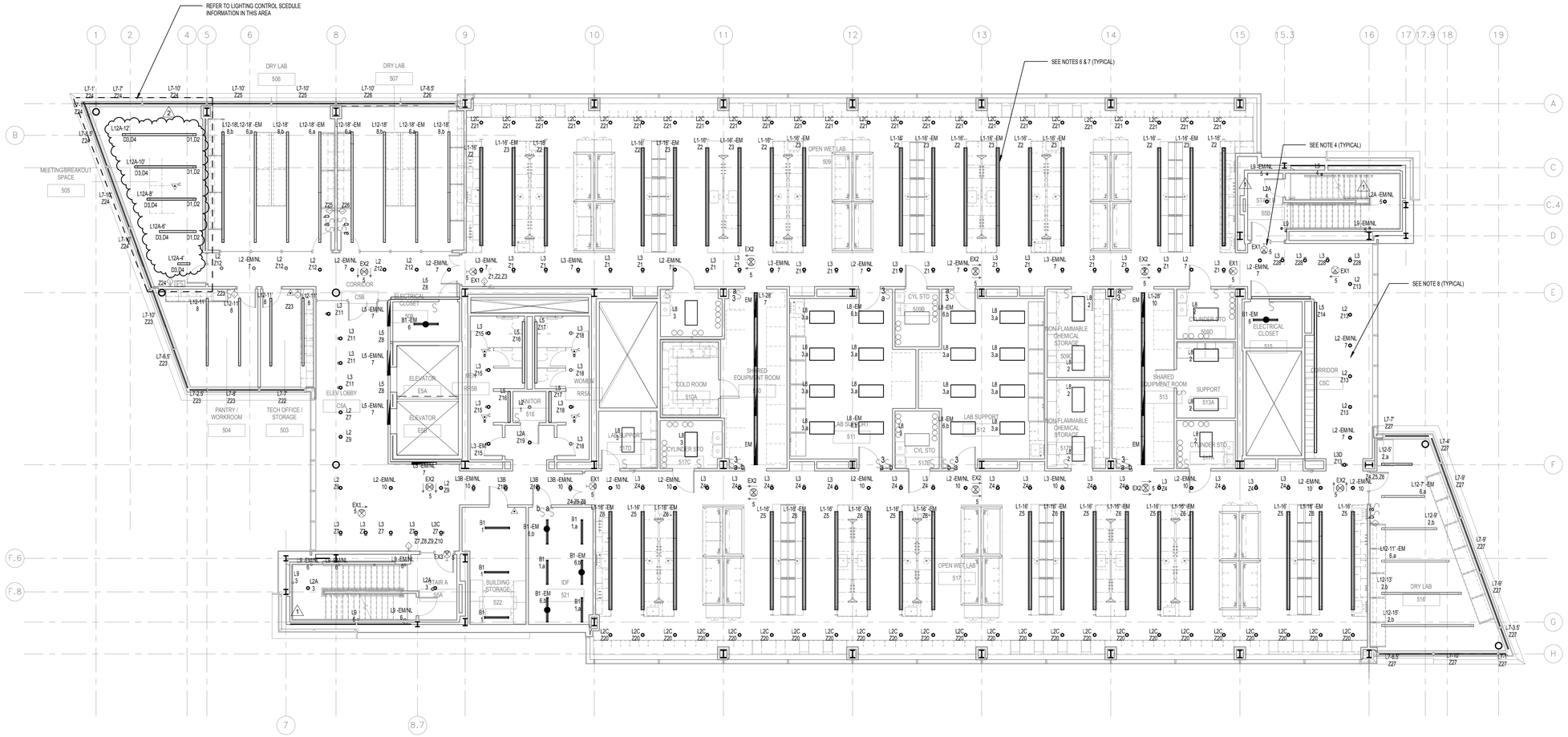
DRAWING TITLE:

ELECTRICAL FLOOR 4 – LIGHTING PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

E–204

CONFORMED SET: 05/29/2015



MEETING/BREAKOUT SPACE 505

ZONE DESIGNATION	CKT & NUMBER		FLOOR	LOCATION	TYPE	VOLTAGE	DIMMING	LAMP	TRUE LOAD	QUANTITY	TOTAL WATTS	ADDITIONAL REMARKS
D1	L45	8	FLOOR 4	MEETING &BREAKOUT SPACE 405	L12	277	YES	LED	4.6W/LF	4	73.6 W	UPLIGHT
D2	L45	8	FLOOR 4	MEETING &BREAKOUT SPACE 405	L12	277	YES	LED	9.25W/LF	4	170.2 W	DOWNLIGHT
D3	L45	8	FLOOR 4	MEETING &BREAKOUT SPACE 405	L12	277	YES	LED	4.6W/LF	5	105.8 W	UPLIGHT
D4	L45	8	FLOOR 4	MEETING &BREAKOUT SPACE 405	L12	277	YES	LED	9.25W/LF	5	212.75 W	DOWNLIGHT

LIGHTING NOTES:

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LIGHTING LAYOUTS AND LOCATIONS OF ALL FIXTURES AND TYPES. REFER TO E-001 FOR B TYPE FIXTURE INFORMATION AND DETAILS
2. REFER TO DRAWING E0.01 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, GENERAL NOTES AND FOR PARTIAL FIXTURE SCHEDULE.
3. LOCATION AND GROUPING ARRANGEMENT/ORIENTATION OF ALL SWITCHES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION. (TYPICAL)
4. ALL EXIT SIGNS SHALL BE CONNECTED TO A "CONSTANT-ON' EMERGENCY (LIFE SAFETY) CIRCUIT. PROVIDE 'LOCK-ON' CIRCUIT BREAKER AT PANELBOARD (TYPICAL)
5. LIGHTING CONTROL SYSTEM SHALL BE PROVIDED WITH EMERGENCY POWER UL924 MODULE FOR EGRESS LIGHTING.
6. SWITCHED EMERGENCY LIGHTING SHALL BE PROVIDED WITH UL924 BYPASS RELAY.
7. PROVIDE UL 924 RELAY TO PROVIDE EMERGENCY POWER TO LIGHTING FIXTURE REGARDLESS OF SWITCH POSITION. PROVIDE NORMAL CIRCUIT AND ALL ASSOCIATED WIRING FOR RELAY SENSING CIRCUIT.
8. INDICATES FIXTURE SHALL BE CONNECTED TO "CONSTANT-ON" EMERGENCY (LIFE SAFETY) CIRCUIT. PROVIDE "LOCK-ON" CIRCUIT BREAKER AT PANELBOARD. (TYPICAL)
9. ALL NORMAL POWER CORRIDOR LIGHTING SHALL BE CONTROLLED VIA RESPECTIVE FLOOR LIGHTING CONTROL PANEL. REFER TO DRAWING E-503
10. ALL NORMAL POWER CORRIDOR LIGHTING SHALL BE CONTROLLED VIA RESPECTIVE FLOOR LIGHTING CONTROL PANEL. REFER TO DRAWING E-503 FOR MORE INFORMATION.
11. ALL UNDERCOUNTER TASK LIGHTING UNLESS NOTED SHALL BE CONNECTED TO THE NEAREST UNSWITCHED RECEPTACLE CIRCUIT. FIXTURE CONTROL SHALL BE VIA ROCKER SWITCH ON FIXTURE.

01 Floor 5 – FLOOR PLAN – LIGHTING
1/8" = 1'-0"

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ISSUE/REVISION:

NO.	DATE	COMMENTS
1.	2015-03-23	BID ADDENDUM 01
2.	2015-05-06	ADDENDUM 06

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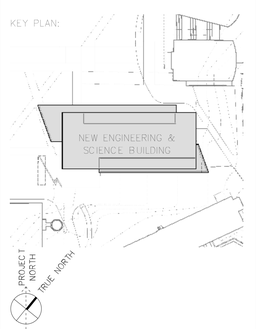
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

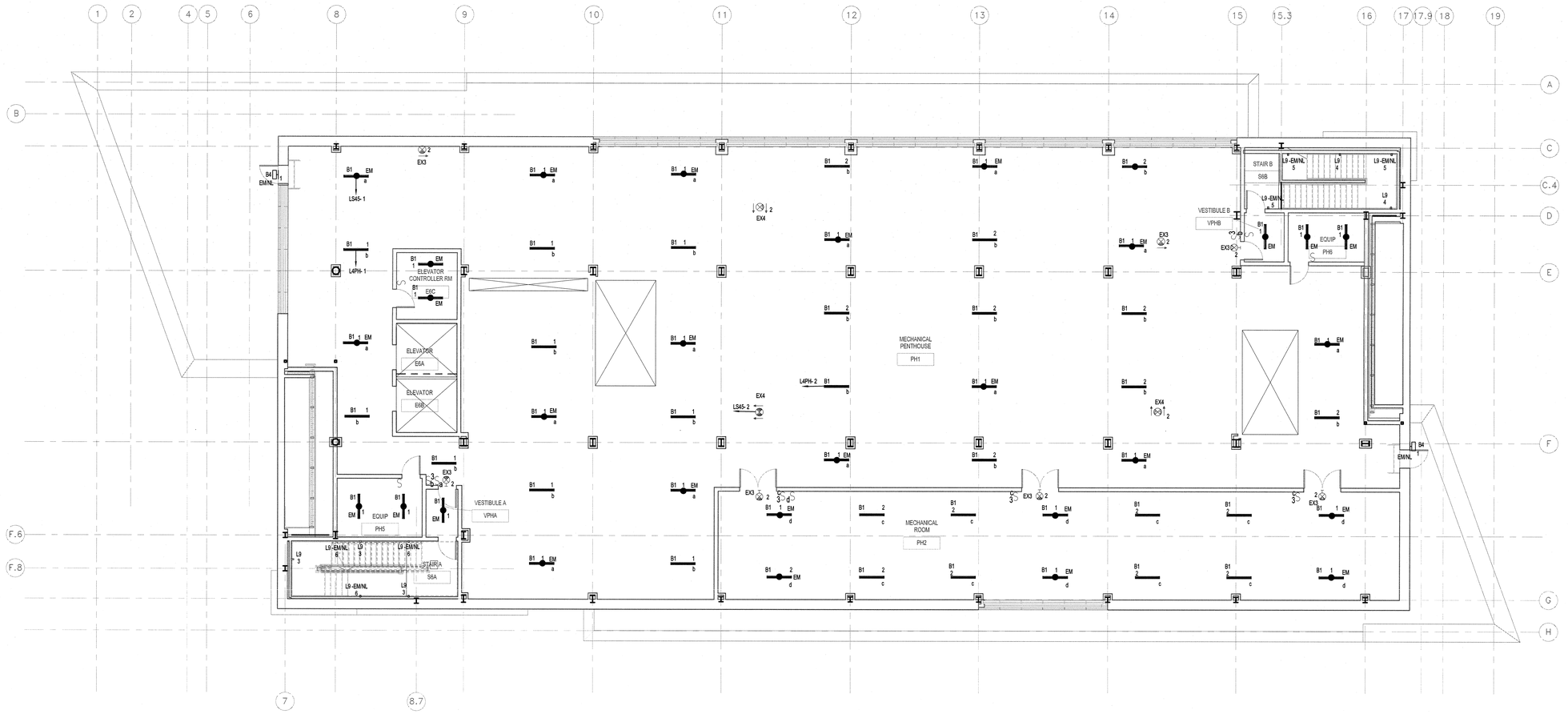
DRAWING TITLE:

ELECTRICAL FLOOR 5 – LIGHTING PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

E–205

CONFORMED SET: 05/29/2015



01 Penthouse – FLOOR PLAN – LIGHTING
1/8" = 1'-0"

LIGHTING NOTES:

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LIGHTING LAYOUTS AND LOCATIONS OF ALL FIXTURES AND TYPES.
2. REFER TO DRAWING E0.01 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, GENERAL NOTES AND FOR PARTIAL FIXTURE SCHEDULE.
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ISSUE/REVISION:

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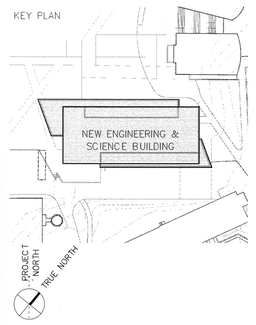
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

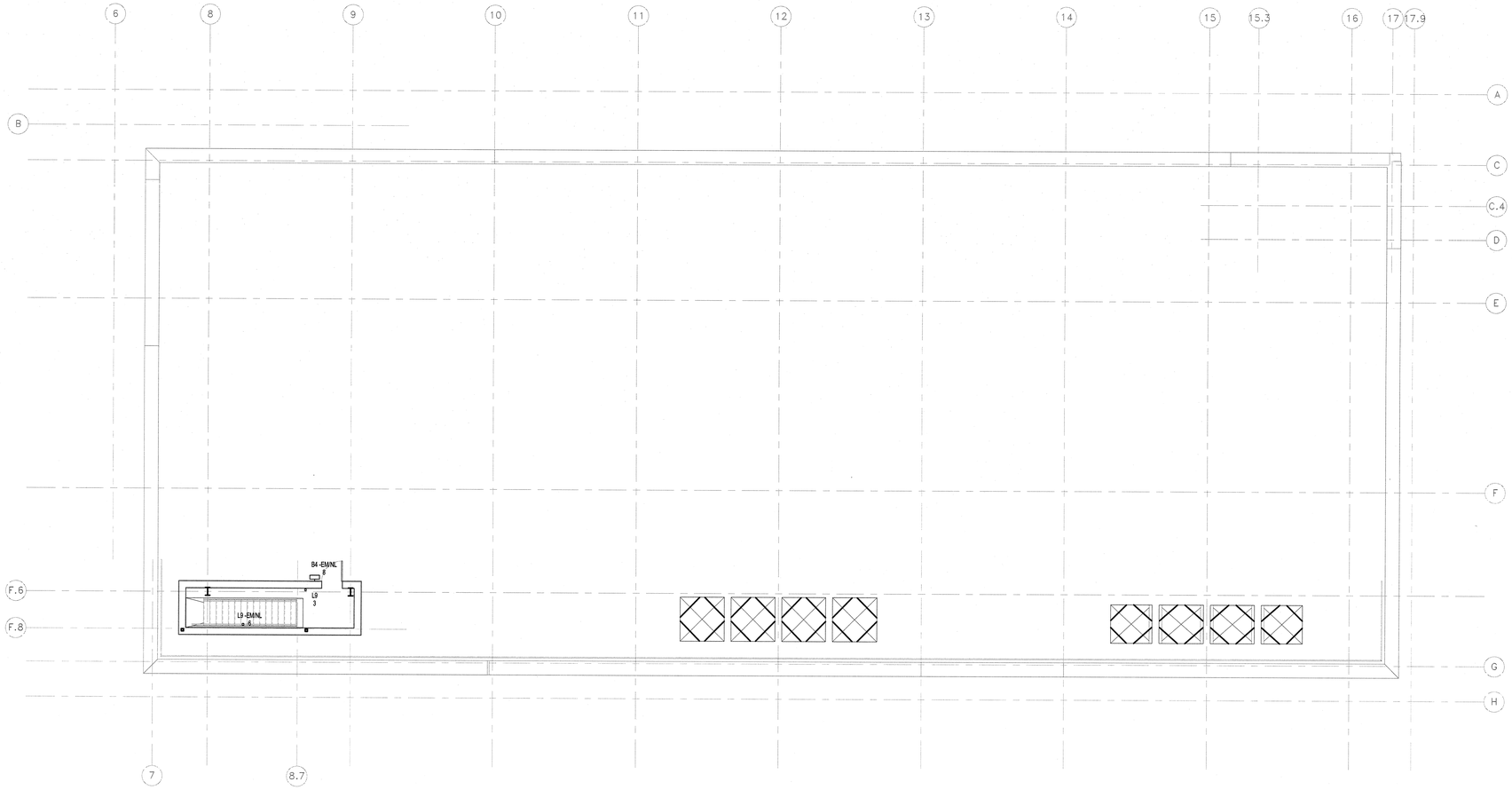
Drawing Title:

ELECTRICAL PENTHOUSE – LIGHTING PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

E-206

CONFORMED SET 05/29/2015



01 Rooftop – FLOOR PLAN – LIGHTING
1/8" = 1'-0"

LIGHTING NOTES:

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LIGHTING LAYOUTS AND LOCATIONS OF ALL FIXTURES AND TYPES.
2. REFER TO DRAWING E0.01 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, GENERAL NOTES AND FOR PARTIAL FIXTURE SCHEDULE.
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7. PROVIDE UL 924 RELAY TO PROVIDE EMERGENCY POWER TO LIGHTING FIXTURE REGARDLESS OF SWITCH POSITION. PROVIDE NORMAL CIRCUIT AND ALL ASSOCIATED WIRING FOR RELAY SENSING CIRCUIT.
8. INDICATES FIXTURE SHALL BE CONNECTED TO "CONSTANT-ON" EMERGENCY (LIFE SAFETY) CIRCUIT. PROVIDE "LOCK-ON" CIRCUIT BREAKER AT PANELBOARD. (TYPICAL)
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10. ALL NORMAL POWER CORRIDOR LIGHTING SHALL BE CONTROLLED VIA RESPECTIVE FLOOR LIGHTING CONTROL PANEL. REFER TO DRAWING E-503 FOR MORE INFORMATION.

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ISSUE/REVISION:

NO.	DATE	COMMENTS

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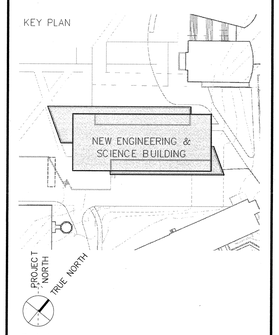
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

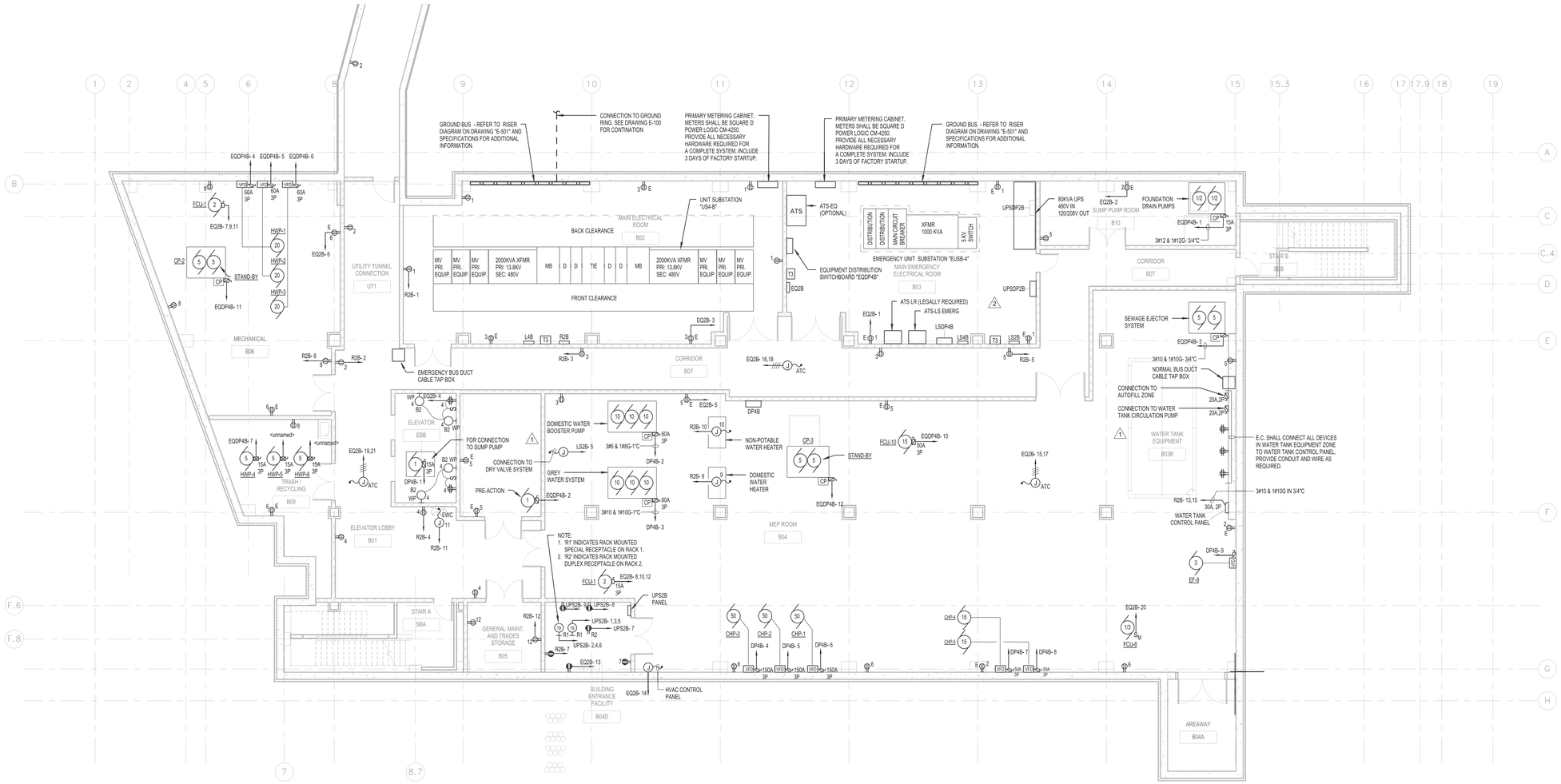
Drawing Title:

ELECTRICAL ROOFTOP – LIGHTING PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

CONFORMED SET: 05/29/2015

E–207



01 Basement – FLOOR PLAN – POWER
1/8" = 1'-0"

GENERAL POWER NOTES:

1. REFER TO DRAWING E-001 FOR IDENTIFICATION OF ALL ELECTRICAL DEVICES.
2. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS FOR ALL DEVICES.
3. REFER TO SPECIAL PURPOSE RECEPTACLE SCHEDULE ON DWG. E-001 FOR DEVICE AND BRANCH CIRCUIT INFORMATION.
4. REFER TO MOTOR WIRING SCHEDULE ON DRAWING E-001 FOR CONDUIT AND WIRE SIZE REQUIREMENTS TO EACH MOTOR (TYPICAL).
5. REFER TO MECHANICAL DRAWINGS (HVAC, PLUMBING AND F/P) FOR EXACT LOCATION OF EQUIPMENT PRIOR TO SERVICE ROUGH-IN.
6. OUTLETS LOCATED WITHIN 6'-0" OF SINK SHALL BE GFI TYPE.
7. THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATION OF FLUSH MOUNTED LAB PANELS WITH OTHER TRADES (i.e. HVAC, SPRINKLERS, LAB GAS PIPING) TO AVOID CONFLICTS WITH PANELBOARD INSTALLATION.
8. COORDINATE EXACT LOCATION OF ALL FLOOR MOUNTED DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.

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ISSUE/REVISIONS:		
NO.	DATE	COMMENTS
1.	2015-04-28	BID ADDENDUM 05
2.	2015-05-06	ADDENDUM 06

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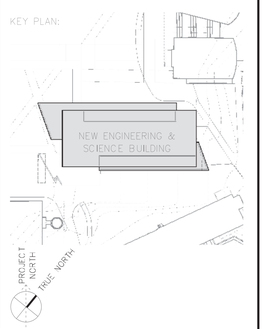
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

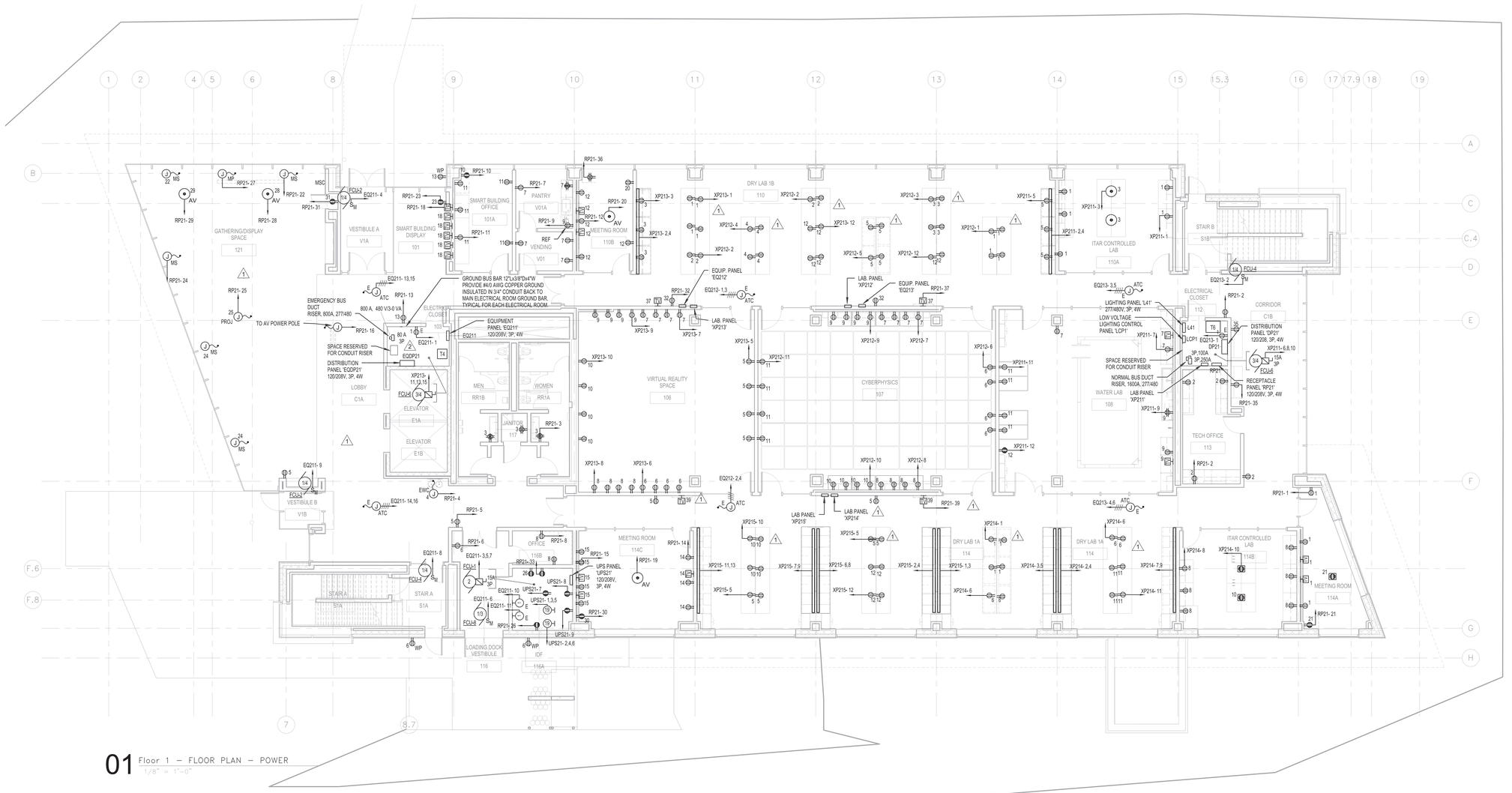
DRAWING TITLE:

ELECTRICAL BASEMENT – POWER PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

E–300

CONFORMED SET: 05/29/2015



01 Floor 1 – FLOOR PLAN – POWER
1/8" = 1'-0"

GENERAL POWER NOTES:

1. REFER TO DRAWING E-001 FOR IDENTIFICATION OF ALL ELECTRICAL DEVICES.
2. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS FOR ALL DEVICES.
3. REFER TO SPECIAL PURPOSE RECEPTACLE SCHEDULE ON DWG. E-001 FOR DEVICE AND BRANCH CIRCUIT INFORMATION.
4. REFER TO MOTOR WIRING SCHEDULE ON DRAWING E-001 FOR CONDUIT AND WIRE SIZE REQUIREMENTS TO EACH MOTOR (TYPICAL).
5. REFER TO MECHANICAL DRAWINGS (HVAC, PLUMBING AND F/P) FOR EXACT LOCATION OF EQUIPMENT PRIOR TO SERVICE ROUGH-IN.
6. OUTLETS LOCATED WITHIN 6'-0" OF SINK SHALL BE GFI TYPE.
7. THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATION OF FLUSH MOUNTED LAB PANELS WITH OTHER TRADES (i.e. HVAC, SPRINKLERS, LAB GAS PIPING) TO AVOID CONFLICTS WITH PANELBOARD INSTALLATION.
8. COORDINATE EXACT LOCATION OF ALL FLOOR MOUNTED DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.

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ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	2015-03-23	BID ADDENDUM 01
2	2015-05-06	ADDENDUM 06

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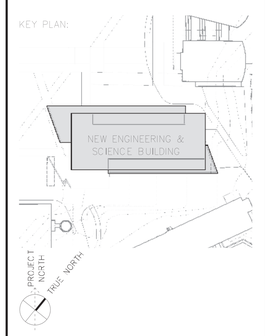
KEY PLAN:



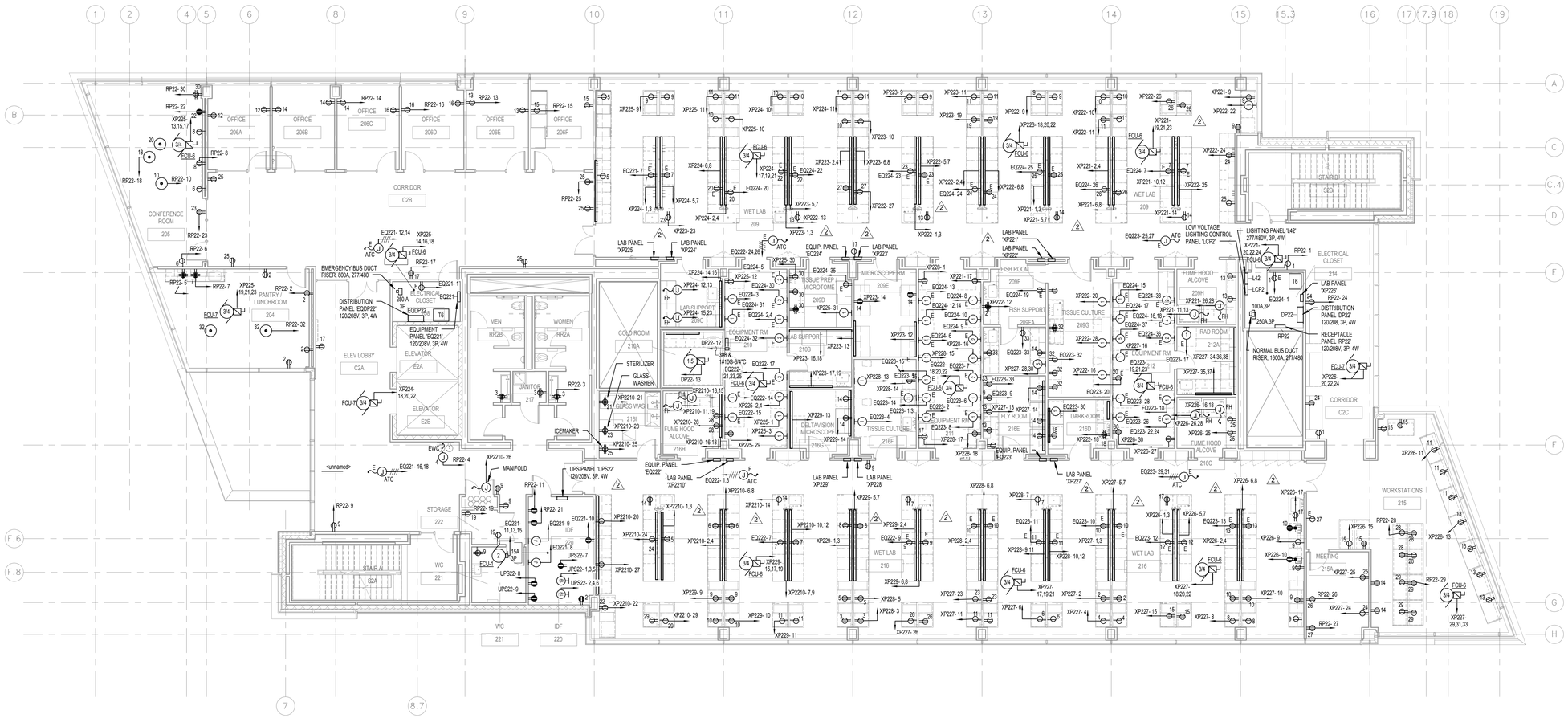
PROJECT:
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:
ELECTRICAL FLOOR 1 – POWER PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

E–301

CONFORMED SET: 05/29/2015



01 Floor 2 – FLOOR PLAN – POWER
1/8" = 1'-0"

GENERAL POWER NOTES:

1. REFER TO DRAWING E-001 FOR IDENTIFICATION OF ALL ELECTRICAL DEVICES.
2. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS FOR ALL DEVICES.
3. REFER TO SPECIAL PURPOSE RECEPTACLE SCHEDULE ON DWG. E-001 FOR DEVICE AND BRANCH CIRCUIT INFORMATION.
4. REFER TO MOTOR WIRING SCHEDULE ON DRAWING E-001 FOR CONDUIT AND WIRE SIZE REQUIREMENTS TO EACH MOTOR (TYPICAL).
5. REFER TO MECHANICAL DRAWINGS (HVAC, PLUMBING AND FP) FOR EXACT LOCATION OF EQUIPMENT PRIOR TO SERVICE ROUGH-IN.
6. OUTLETS LOCATED WITHIN 6'-0" OF SINK SHALL BE GFI TYPE.
7. THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATION OF FLUSH MOUNTED LAB PANELS WITH OTHER TRADES (i.e. HVAC, SPRINKLERS, LAB GAS PIPING) TO AVOID CONFLICTS WITH PANELBOARD INSTALLATION.
8. COORDINATE EXACT LOCATION OF ALL FLOOR MOUNTED DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.

ALTERNATE#1

1. PROVIDE EMPTY CONDUIT TO COLD ROOM DISCONNECT AND CONDENSING UNIT FROM NORMAL ELECTRICAL ROOM.

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ISSUE/REVISION:		
NO.	DATE	COMMENTS
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2	2015-05-08	ADDENDUM 06

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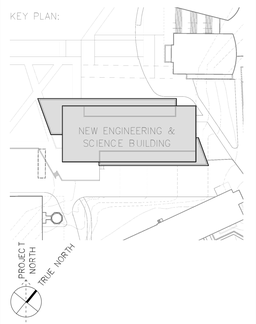
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

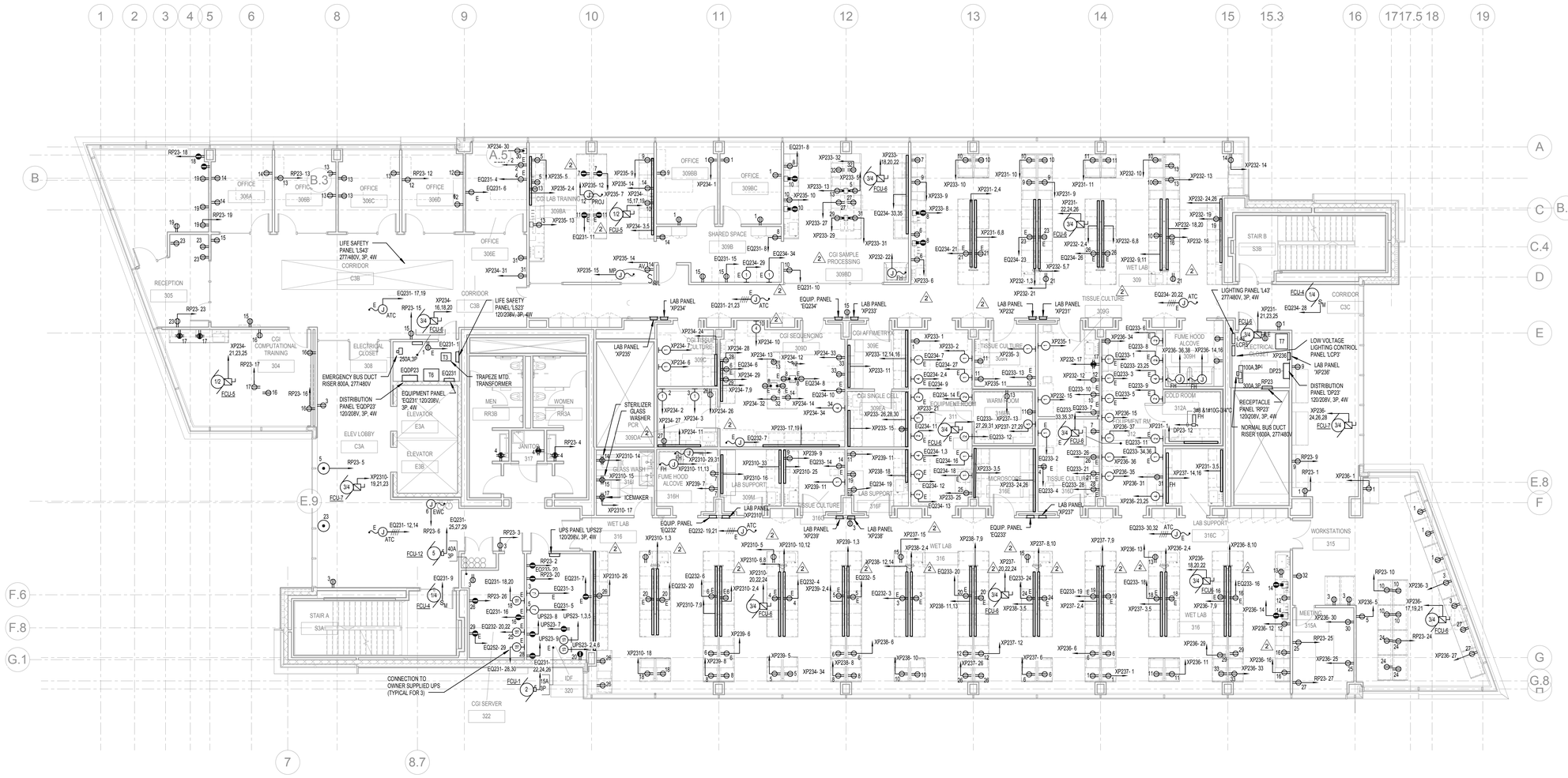
DRAWING TITLE:

ELECTRICAL FLOOR 2 – POWER PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

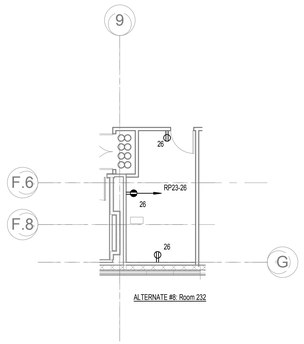
E–302

CONFORMED SET: 05/29/2015



01 Floor 3 – FLOOR PLAN – POWER

1/8" = 1'-0"



ALTERNATE #8: Room 232

GENERAL POWER NOTES:

1. REFER TO DRAWING E-001 FOR IDENTIFICATION OF ALL ELECTRICAL DEVICES.
2. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS FOR ALL DEVICES.
3. REFER TO SPECIAL PURPOSE RECEPTACLE SCHEDULE ON DWG. E-001 FOR DEVICE AND BRANCH CIRCUIT INFORMATION.
4. REFER TO MOTOR WIRING SCHEDULE ON DRAWING E-001 FOR CONDUIT AND WIRE SIZE REQUIREMENTS TO EACH MOTOR (TYPICAL).
5. REFER TO MECHANICAL DRAWINGS (HVAC, PLUMBING AND F/P) FOR EXACT LOCATION OF EQUIPMENT PRIOR TO SERVICE ROUGH-IN.
6. OUTLETS LOCATED WITHIN 6'-0" OF SINK SHALL BE GFI TYPE.
7. THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATION OF FLUSH MOUNTED LAB PANELS WITH OTHER TRADES (i.e. HVAC, SPRINKLERS, LAB GAS PIPING) TO AVOID CONFLICTS WITH PANELBOARD INSTALLATION.
8. COORDINATE EXACT LOCATION OF ALL FLOOR MOUNTED DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.

ALTERNATE#4

1. PROVIDE EMPTY CONDUIT TO COLD ROOM DISCONNECT AND CONDENSING UNIT FROM NORMAL ELECTRICAL ROOM.

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ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	2015-03-23	BID ADDENDUM 01
2	2015-05-08	ADDENDUM 06

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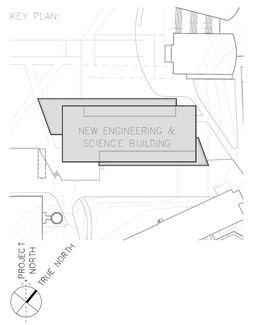
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

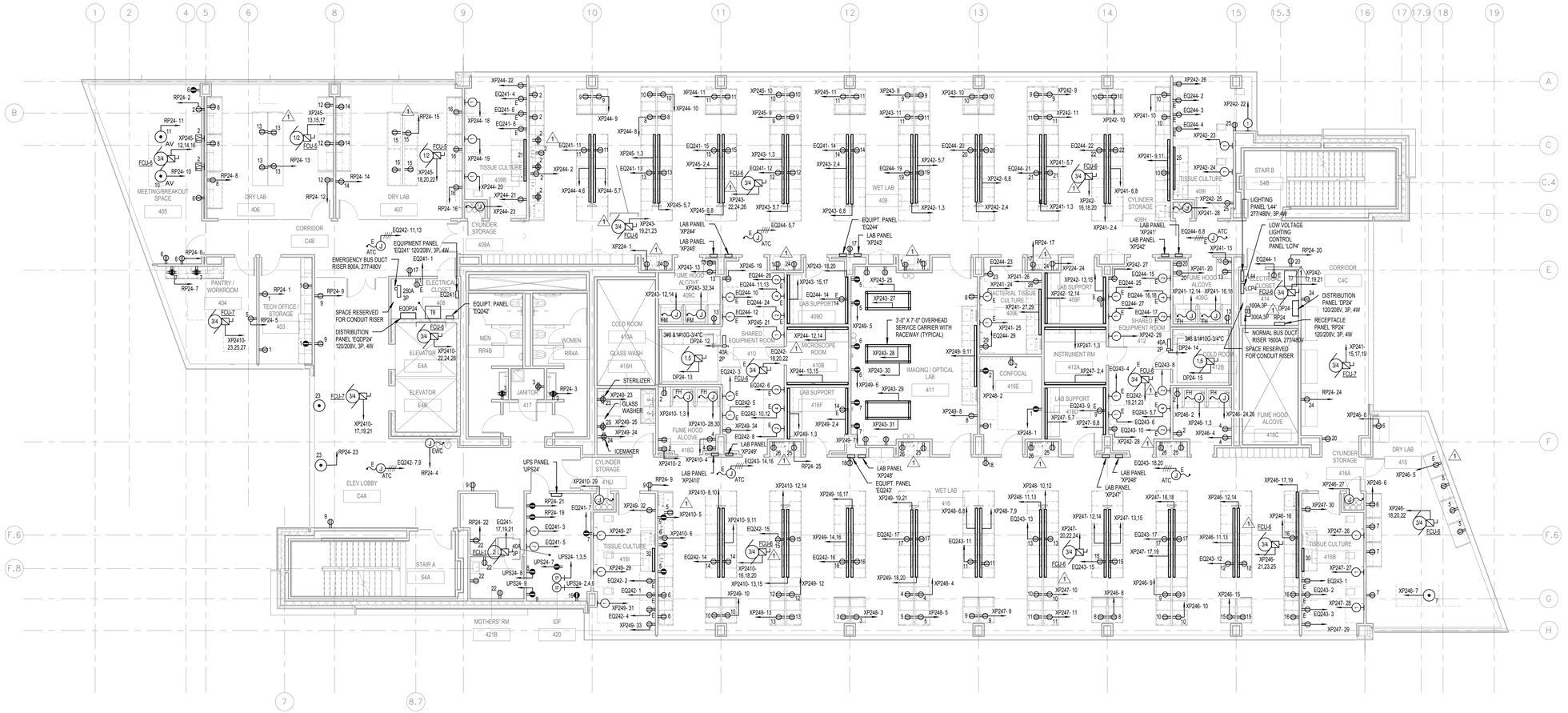
DRAWING TITLE:

ELECTRICAL FLOOR 3 – POWER PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

E–303

CONFORMED SET: 05/29/2015



01 Floor 4 – FLOOR PLAN – POWER

1/8" = 1'-0"

GENERAL POWER NOTES:

1. REFER TO DRAWING E-001 FOR IDENTIFICATION OF ALL ELECTRICAL DEVICES.
2. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS FOR ALL DEVICES.
3. REFER TO SPECIAL PURPOSE RECEPTACLE SCHEDULE ON DWG. E-001 FOR DEVICE AND BRANCH CIRCUIT INFORMATION.
4. REFER TO MOTOR WIRING SCHEDULE ON DRAWING E-001 FOR CONDUIT AND WIRE SIZE REQUIREMENTS TO EACH MOTOR (TYPICAL).
5. REFER TO MECHANICAL DRAWINGS (HVAC, PLUMBING AND F/P) FOR EXACT LOCATION OF EQUIPMENT PRIOR TO SERVICE ROUGH-IN.
6. OUTLETS LOCATED WITHIN 6'-0" OF SINK SHALL BE GFI TYPE.
7. THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATION OF FLUSH MOUNTED LAB PANELS WITH OTHER TRADES (i.e. HVAC, SPRINKLERS, LAB GAS PIPING) TO AVOID CONFLICTS WITH PANELBOARD INSTALLATION.
8. COORDINATE EXACT LOCATION OF ALL FLOOR MOUNTED DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.

ALTERNATE#4 1

1. PROVIDE EMPTY CONDUIT TO COLD ROOM DISCONNECT AND CONDENSING UNIT FROM NORMAL ELECTRICAL ROOM.

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203 857 0200

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NO.	DATE	COMMENTS
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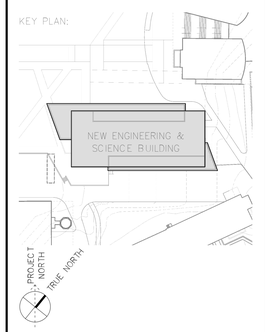
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

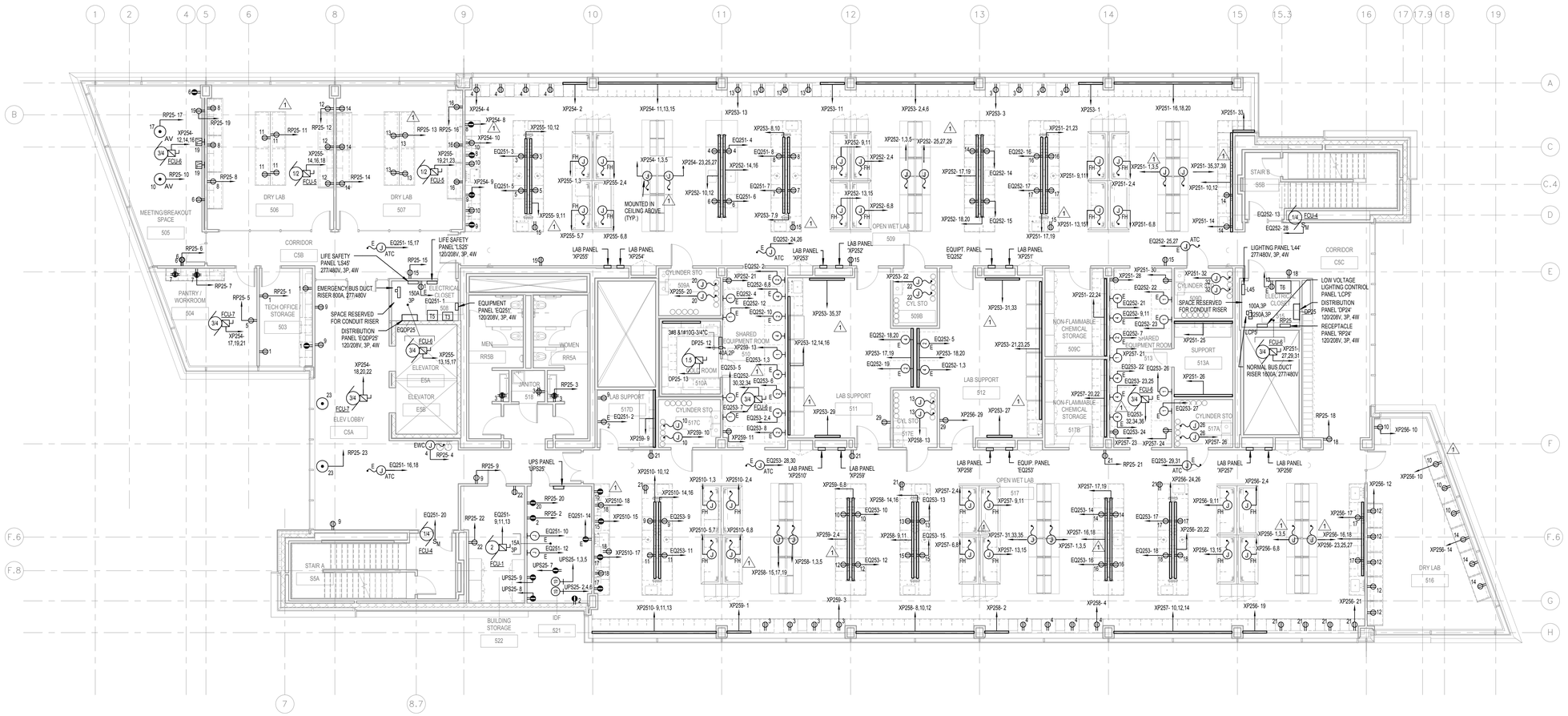
DRAWING TITLE:

ELECTRICAL FLOOR 4 – POWER PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

E–304

CONFORMED SET: 05/29/2015



01 Floor 5 – FLOOR PLAN – POWER

1/8" = 1'-0"

GENERAL POWER NOTES:

1. REFER TO DRAWING E-001 FOR IDENTIFICATION OF ALL ELECTRICAL DEVICES.
2. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS FOR ALL DEVICES.
3. REFER TO SPECIAL PURPOSE RECEPTACLE SCHEDULE ON DWG. E-001 FOR DEVICE AND BRANCH CIRCUIT INFORMATION.
4. REFER TO MOTOR WIRING SCHEDULE ON DRAWING E-001 FOR CONDUIT AND WIRE SIZE REQUIREMENTS TO EACH MOTOR (TYPICAL).
5. REFER TO MECHANICAL DRAWINGS (HVAC, PLUMBING AND F/P) FOR EXACT LOCATION OF EQUIPMENT PRIOR TO SERVICE ROUGH-IN.
6. OUTLETS LOCATED WITHIN 6'-0" OF SINK SHALL BE GFI TYPE.
7. THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATION OF FLUSH MOUNTED LAB PANELS WITH OTHER TRADES (i.e. HVAC, SPRINKLERS, LAB GAS PIPING) TO AVOID CONFLICTS WITH PANELBOARD INSTALLATION.
8. COORDINATE EXACT LOCATION OF ALL FLOOR MOUNTED DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.

ALTERNATE#4 1

1. PROVIDE EMPTY CONDUIT TO COLD ROOM DISCONNECT AND CONDENSING UNIT FROM NORMAL ELECTRICAL ROOM.

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ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	2015-03-23	BID ADDENDUM 01

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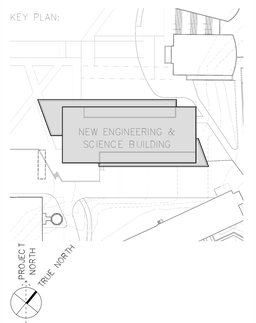
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

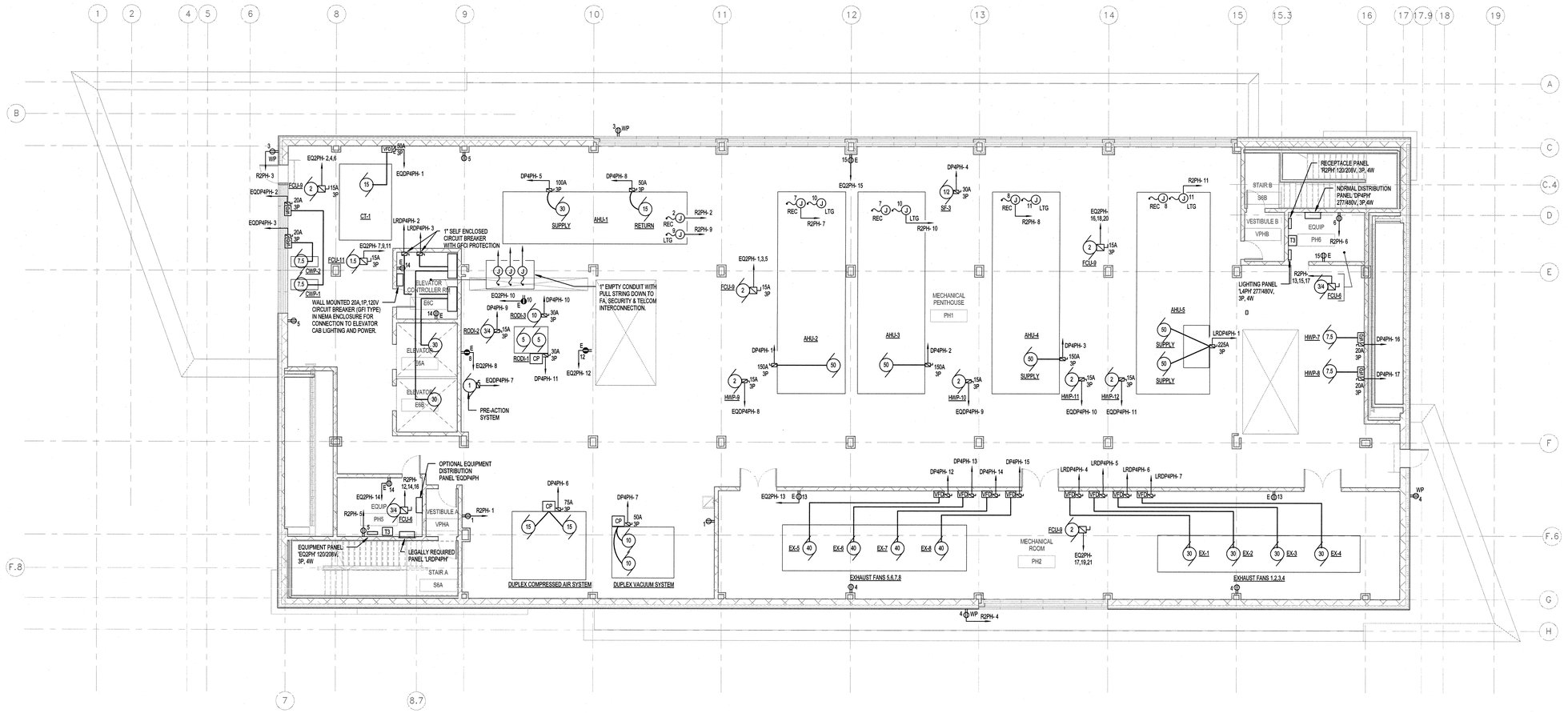
DRAWING TITLE:

ELECTRICAL FLOOR 5 – POWER PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

E–305

CONFORMED SET: 05/29/2015



01 Penthouse – FLOOR PLAN – POWER

1/8" = 1'-0"

GENERAL POWER NOTES:

1. REFER TO DRAWING E-001 FOR IDENTIFICATION OF ALL ELECTRICAL DEVICES.
2. REFER TO MECHANICAL DRAWINGS (HVAC, PLUMBING & FIRE PROTECTION) FOR EXACT LOCATION OF EQUIPMENT PRIOR TO SERVICE ROUGH-IN.
3. REFER TO MOTOR WIRING SCHEDULE ON DRAWING E-001 FOR CONDUIT AND WIRE SIZE REQUIREMENTS TO EACH MOTOR (TYPICAL).
4. REFER TO MOTOR WIRING BRANCH CIRCUIT SCHEDULE ON DRAWING E-001 FOR SWITCH, FUSE, STARTER, CONDUIT AND WIRE SIZE REQUIREMENTS TO EACH MOTOR (TYPICAL).
5. REFER TO ELECTRICAL SPECIFICATIONS FOR LIGHTNING PROTECTION SYSTEM CRITERIA AND REQUIREMENTS.

UNIVERSITY OF CONNECTICUT

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ISSUE/REVISION:

NO.	DATE	COMMENTS

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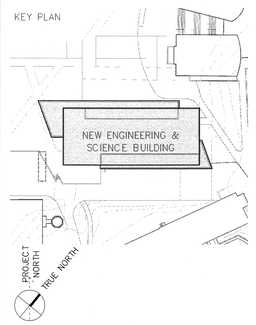
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

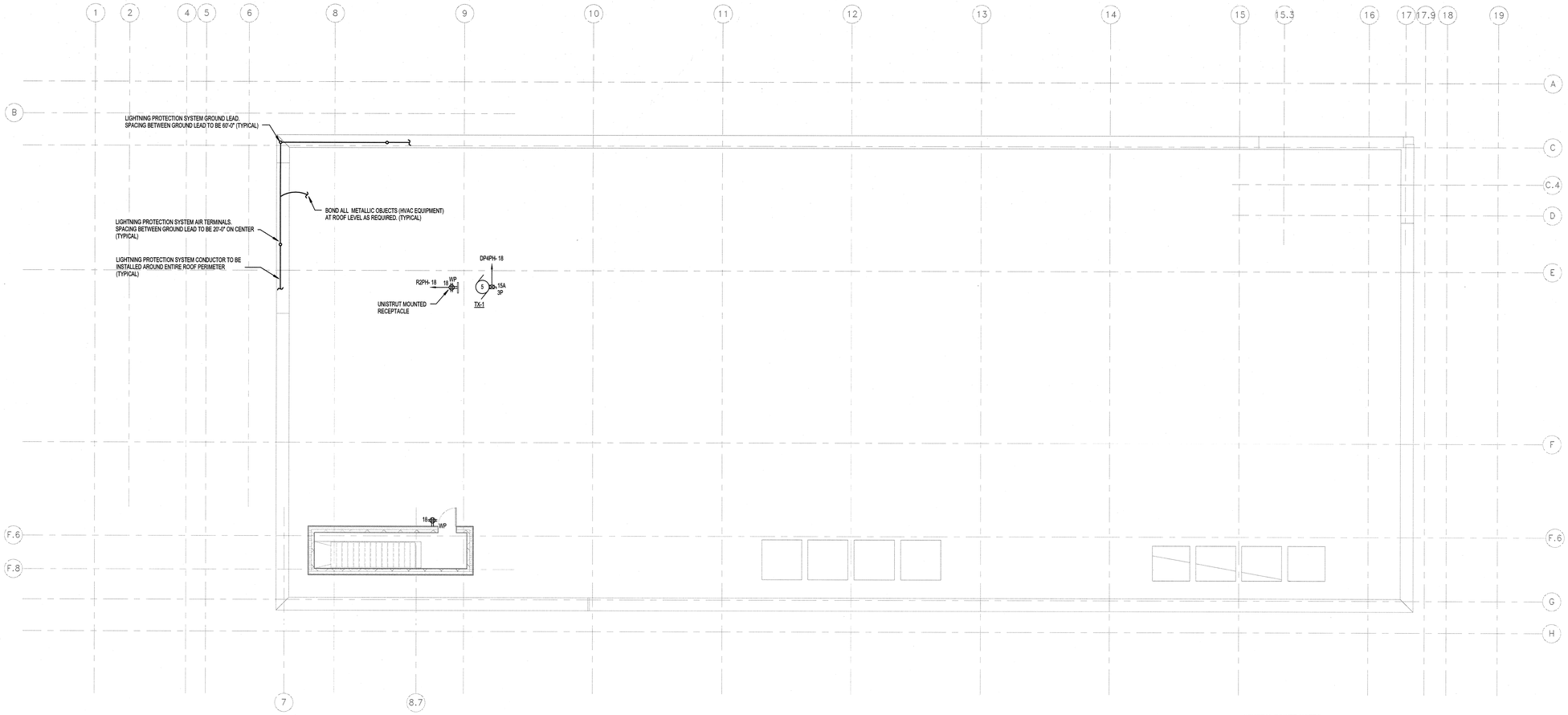
Drawing Title:

ELECTRICAL PENTHOUSE – POWER PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

E–306

CONFORMED SET: 05/29/2015



01 Rooftop – FLOOR PLAN – POWER
1/8" = 1'-0"

GENERAL POWER NOTES:

1. REFER TO DRAWING E-001 FOR IDENTIFICATION OF ALL ELECTRICAL DEVICES.
2. REFER TO MECHANICAL DRAWINGS (HVAC, PLUMBING & FIRE PROTECTION) FOR EXACT LOCATION OF EQUIPMENT PRIOR TO SERVICE ROUGH-IN.
3. REFER TO MOTOR WIRING SCHEDULE ON DRAWING E-001 FOR CONDUIT AND WIRE SIZE REQUIREMENTS TO EACH MOTOR (TYPICAL).
4. REFER TO MOTOR WIRING BRANCH CIRCUIT SCHEDULE ON DRAWING E-001 FOR SWITCH, FUSE, STARTER, CONDUIT AND WIRE SIZE REQUIREMENTS TO EACH MOTOR (TYPICAL).
5. REFER TO ELECTRICAL SPECIFICATIONS FOR LIGHTNING PROTECTION SYSTEM CRITERIA AND REQUIREMENTS.

UNIVERSITY OF CONNECTICUT

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LANDSCAPE ARCHITECTS:
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LEED CONSULTANT:
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ISSUE/REVISION:

NO.	DATE	COMMENTS

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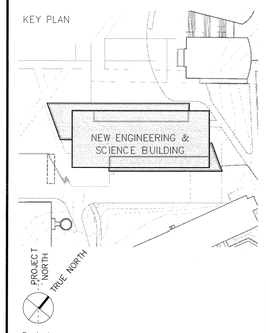
ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK

KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

Drawing Title:

ELECTRICAL ROOFTOP – POWER PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

E–307

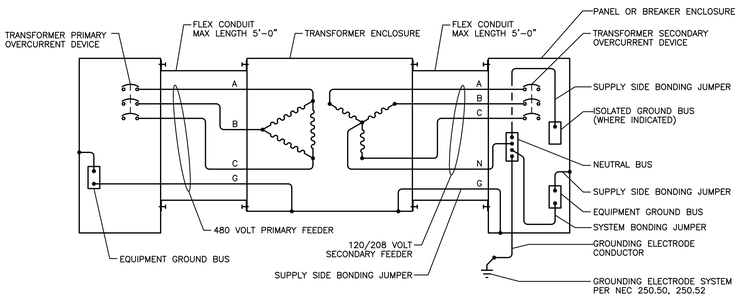
CONFORMED SET: 05/29/2015

DRY TYPE TRANSFORMER SCHEDULE

SIZE	KVA	PRIMARY AMPERES	SECONDARY AMPERES	480 VOLT OVERCURRENT SEE NOTE 2	208 VOLT OVERCURRENT SEE NOTE 3	480 VOLT PRIMARY FEEDER	208 VOLT PRIMARY FEEDER	GROUNDING ELECTRODE CONDUCTOR SEE NOTE 4
T1	9	11	25	20A, 3P	30A, 3P	3#12 & 1#12G – 3/4"C	4#8 & 1#8G – 1"C	1#8 – 3/4"C
T2	15	18	42	30A, 3P	50A, 3P	3#10 & 1#10G – 3/4"C	4#6 & 1#8G – 1"C	1#8 – 3/4"C
T3	30	36	83	60A, 3P	100A, 3P	3#4 & 1#10G – 1"C	4#1 & 1#6G – 1 1/2"C	1#6 – 3/4"C
T4	45	54	125	80A, 3P	150A, 3P	3#3 & 1#8G – 1 1/4"C	4#1/0 & 1#6G – 2"C	1#6 – 3/4"C
T5	75	90	208	150A, 3P	250A, 3P	3#1/0 & 1#6G – 2"C	4#250 KCMIL & 1#2G – 3"C	1#2 – 3/4"C
T6	112.5	135	313	250A, 3P	400A, 3P	3#250 KCMIL & 1#4G – 2 1/2"C	4#600 KCMIL & 1#1/0G – 4"C	1#1/0 – 3/4"C
T7	150	181	417	300A, 3P	500A, 3P	3#350 KCMIL & 1#4G – 3"C	8#250 KCMIL & 2#1/0G – 2–2 1/2"C	1#1/0 – 3/4"C
T8	225	271	625	400A, 3P	800A, 3P	3#600 KCMIL & 1#3G – 3 1/2"C	8#600 KCMIL & 2#3/0G – 2–4"C	1#3/0 – 3/4"C
T9	300	361	834	600A, 3P	1000A, 3P	6#350 KCMIL & 2#1G – 2–3"C	12#400 KCMIL & 3#3/0G – 3–3"C	1#3/0 – 1"C
T10	500	602	1390	1000A, 3P	1600A, 3P	9#400 KCMIL & 3#2/0G – 3–3"C	16#600 KCMIL & 4#300 KCMIL G – 4–4"C	1#300 KCMIL–1 1/4"C

DRY TYPE TRANSFORMER SCHEDULE NOTES:

1. ALL PHASE AND NEUTRAL CONDUCTOR SIZES ARE BASED ON COPPER CONDUCTORS PER NEC TABLE 310.15(B)(16).
2. MANUFACTURERS SELECTION FOR THE TYPE OF PRIMARY CIRCUIT BREAKER (THERMAL MAGNETIC VS. SOLID STATE) SHALL ENSURE COORDINATION WITH TRANSFORMER IN–RUSH CURRENT. IF MIS–COORDINATION IS IDENTIFIED BY THE COORDINATION STUDY, THE MANUFACTURER SHALL REPLACE THE DEVICE WITH A DEVICE THAT WILL PROPERLY COORDINATE, AT NO ADDITIONAL COST.
3. SECONDARY OVERCURRENT PROTECTION SHALL BE LOCATED WITHIN A PANELBOARD (MAIN CIRCUIT BREAKER) OR INDIVIDUALLY MOUNTED CIRCUIT BREAKER. THE SECONDARY OVERCURRENT PROTECTION DEVICE SHALL BE LOCATED SUCH THAT THE MAXIMUM LENGTH OF SECONDARY CONDUCTORS DO NOT EXCEED 10'–0".
4. SIZE OF GROUNDING ELECTRODE CONDUCTOR, SYSTEM BONDING JUMPER AND SUPPLY SIDE BONDING JUMPER.
5. THE GROUNDING ELECTRODE CONDUCTOR SHALL BE UNSPLICED AND RUN IN CONDUIT FROM THE NEUTRAL BUS TO THE GROUNDING ELECTRODE SYSTEM.
6. SECONDARY EQUIPMENT GROUND BUS SHALL BE LOCATED WITHIN A PANELBOARD OR INDIVIDUALLY MOUNTED CIRCUIT BREAKER.
7. CONDUCTORS SHALL BE PROVIDED WITH "MAC" ADAPTERS AS REQUIRED TO COORDINATE WITH BREAKER LUG SIZES.
8. CONDUCTOR TYPE SHALL BE XHHW OR XHHW–2 SUBJECT TO THE RESTRICTIONS OF THE NEC AND PROJECT SPECIFICATIONS.



DRY TYPE TRANSFORMER WIRING DIAGRAM

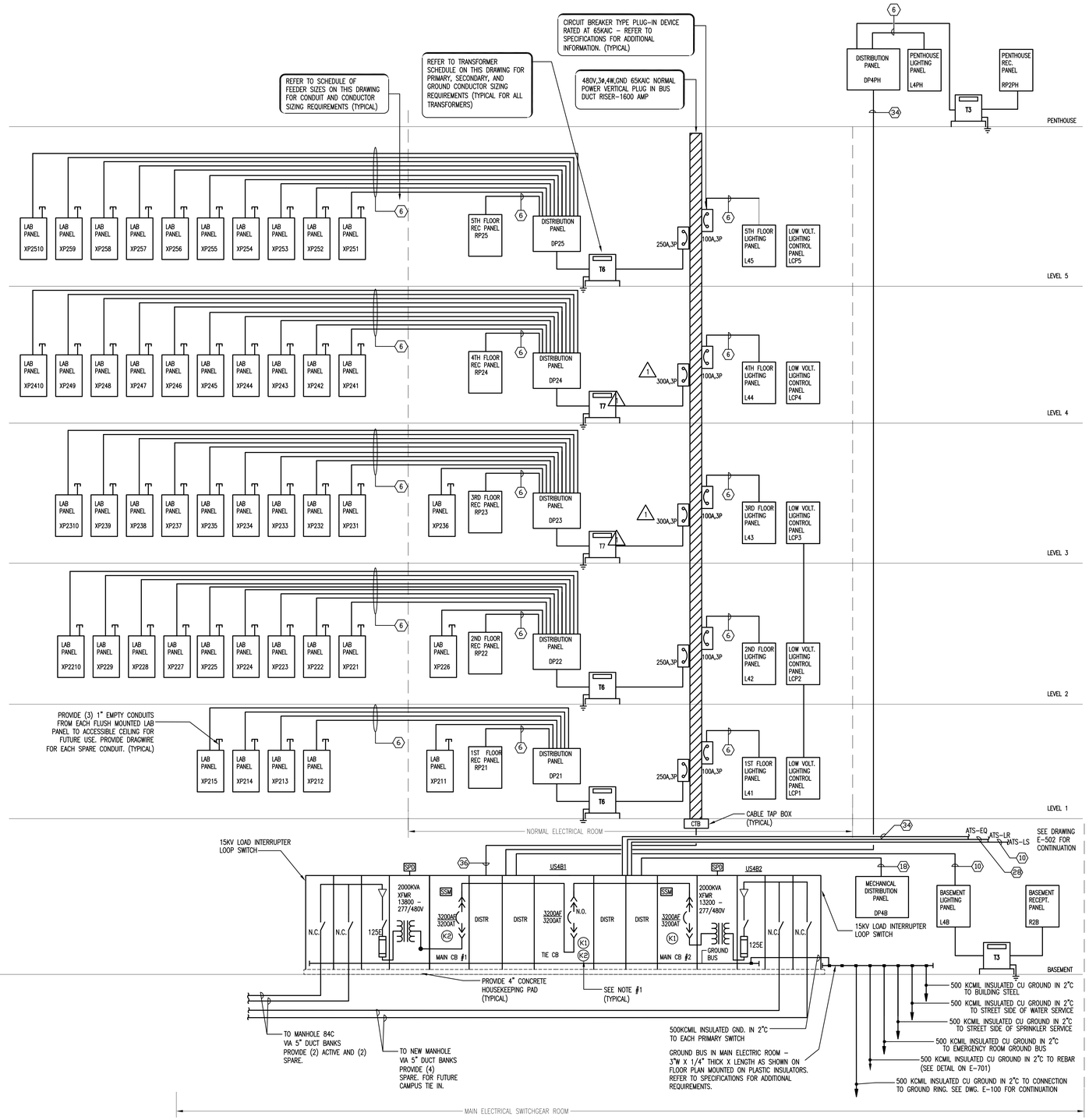
LEGEND OF FEEDER SIZES

COPPER CONDUCTORS

FEEDER SYMBOL	CONDUCTORS (3 PHASE, 3 WIRE) WITH GROUND	RACEWAY SIZE CONDUIT	CONDUCTORS (3 PHASE, 4 WIRE) WITH GROUND	RACEWAY SIZE CONDUIT	NOMINAL AMPERE RATING
1	3#4 & 1#10G.	1"			60
2			4#4 & 1#10G.	1 1/4"	
3	3#4 & 1#8G.	1"			70
4			4#4 & 1#8G.	1 1/4"	
5	3#1 & 1#8G.	1 1/2"			100
6			4#1 & 1#8G.	1 1/2"	
7	3#1/0 & 1#6G.	1 1/2"			125
8			4#1/0 & 1#6G.	2"	
9	3#1/0 & 1#6G.	1 1/2"			150
10			4#1/0 & 1#6G.	2"	
11	3#2/0 & 1#6G.	2"			175
12			4#2/0 & 1#6G.	2"	
13	3#3/0 & 1#6G.	2"			200
14			4#3/0 & 1#6G.	2"	
15	3#4/0 & 1#4G.	2"			225
16			4#4/0 & 1#4G.	2 1/2"	
17	3#250 KCMIL & 1#4G.	2 1/2"			250
18			4#250 KCMIL & 1#4G.	3"	
19	3#350 KCMIL & 1#4G.	3"			300
20			4#350 KCMIL & 1#4G.	3"	
21	3#500 KCMIL & 1#3G.	3 1/2"			350
22			4#500 KCMIL & 1#3G.	4"	
23	3#600 KCMIL & 1#3G.	3 1/2"			400
24			4#600 KCMIL & 1#3G.	4"	
25	6#250 KCMIL & 2#2G.	2-2 1/2"			500
26			8#250 KCMIL & 2#2G.	2-3"	
27	6#350 KCMIL & 2#1G.	2-3"			600
28			8#350 KCMIL & 2#1G.	2-3"	
29	6#600 KCMIL & 2#1/0G.	2-3 1/2"			800
30			8#600 KCMIL & 2#1/0G.	2-4"	
31	9#400 KCMIL &3#2/0G.	3-3"			1000
32			12#400 KCMIL &3#2/0G.	3-3"	
33	9#600 KCMIL & 3#3/0G.	3-3 1/2"			1200
34			12#600 KCMIL & 3#3/0G.	3-4"	
35	12#600 KCMIL & 4#4/0G.	4-3 1/2"			1600
36			16#600 KCMIL & 4#4/0G.	4-4"	
37	15#600 KCMIL & 5#250 KCMIL G.	5-3 1/2"			2000
38			20#600 KCMIL & 5#250 KCMIL G.	5-4"	

NOTES:

1. 600KCMIL FEEDERS SHALL BE PROVIDED WITH MAC ADAPTERS AS REQUIRED TO COORDINATE WITH BREAKER LUG SIZES.
2. SEE SPECIFICATIONS FOR ACCEPTABLE CONDUCTOR TYPES.



NORMAL POWER ELECTRICAL RISER DIAGRAM

SCALE : NTS

POWER NOTES:

1. KIRK KEY DEVICES SHALL BE PROVIDED IN ALL MAIN AND TIE BREAKER DEVICES TO PREVENT MOMENTARY PARALLELING OF TWO TRANSFORMER ONTO A COMMON BUS (TYPICAL)

CONFORMED SET: 05/29/2015

UNIVERSITY OF CONNECTICUT

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ISSUE/REVISION:

NO.	DATE	COMMENTS
1	03/20/2015	ADDENDUM 1

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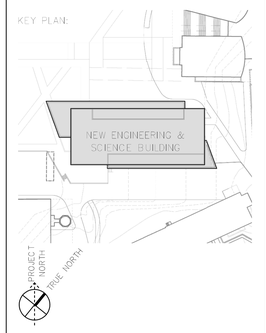
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:

ELECTRICAL NORMAL POWER RISER DIAGRAM

PROJECT NO: 092203

DATE: 20 FEBRUARY 2015

PHASE: BID DOCUMENTS

SCALE: NTS

E-501

DRY TYPE TRANSFORMER SCHEDULE

SIZE	KVA	PRIMARY AMPERES	SECONDARY AMPERES	480 VOLT OVERCURRENT SEE NOTE 2	208 VOLT OVERCURRENT SEE NOTE 3	480 VOLT PRIMARY FEEDER	208 VOLT PRIMARY FEEDER	GROUNDING ELECTRODE CONDUCTOR SEE NOTE 4
T1	9	11	25	20A, 3P	30A, 3P	3#12 & 1#12G – 3/4"C	4#8 & 1#8G – 1"C	1#8 – 3/4"C
T2	15	18	42	30A, 3P	50A, 3P	3#10 & 1#10G – 3/4"C	4#6 & 1#8G – 1"C	1#8 – 3/4"C
T3	30	36	83	60A, 3P	100A, 3P	3#4 & 1#10G – 1"C	4#1 & 1#6G – 1 1/2"C	1#6 – 3/4"C
T4	45	54	125	80A, 3P	150A, 3P	3#3 & 1#8G – 1 1/4"C	4#1/0 & 1#6G – 2"C	1#6 – 3/4"C
T5	75	90	208	150A, 3P	250A, 3P	3#1/0 & 1#6G – 2"C	4#250 KCMIL & 1#2G – 3"C	1#2 – 3/4"C
T6	112.5	135	313	250A, 3P	400A, 3P	3#250 KCMIL & 1#4G – 2 1/2"C	4#600 KCMIL & 1#1/0G – 4"C	1#1/0 – 3/4"C
T7	150	181	417	300A, 3P	500A, 3P	3#350 KCMIL & 1#4G – 3"C	8#250 KCMIL & 2#1/0G – 2–2 1/2"C	1#1/0 – 3/4"C
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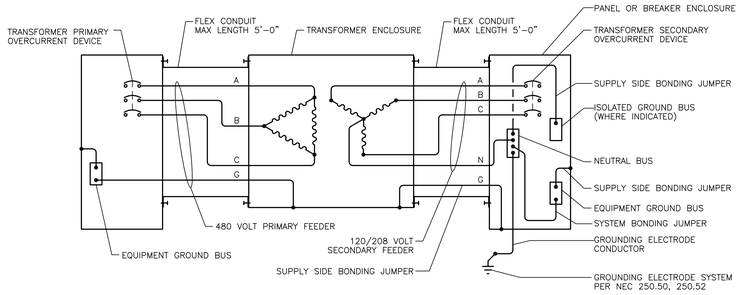

DRY TYPE TRANSFORMER WIRING DIAGRAM

LEGEND OF FEEDER SIZES

COPPER CONDUCTORS

FEEDER SYMBOL	CONDUCTORS (3 PHASE, 3 WIRE) WITH GROUND	RACEWAY SIZE CONDUIT	CONDUCTORS (3 PHASE, 4 WIRE) WITH GROUND	RACEWAY SIZE CONDUIT	NOMINAL AMPERE RATING
1	3#4 & 1#10G.	1"			60
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8			4#1/0 & 1#6G.	2"	
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10			4#1/0 & 1#6G.	2"	
11	3#2/0 & 1#6G.	2"			175
12			4#2/0 & 1#6G.	2"	
13	3#3/0 & 1#6G.	2"			200
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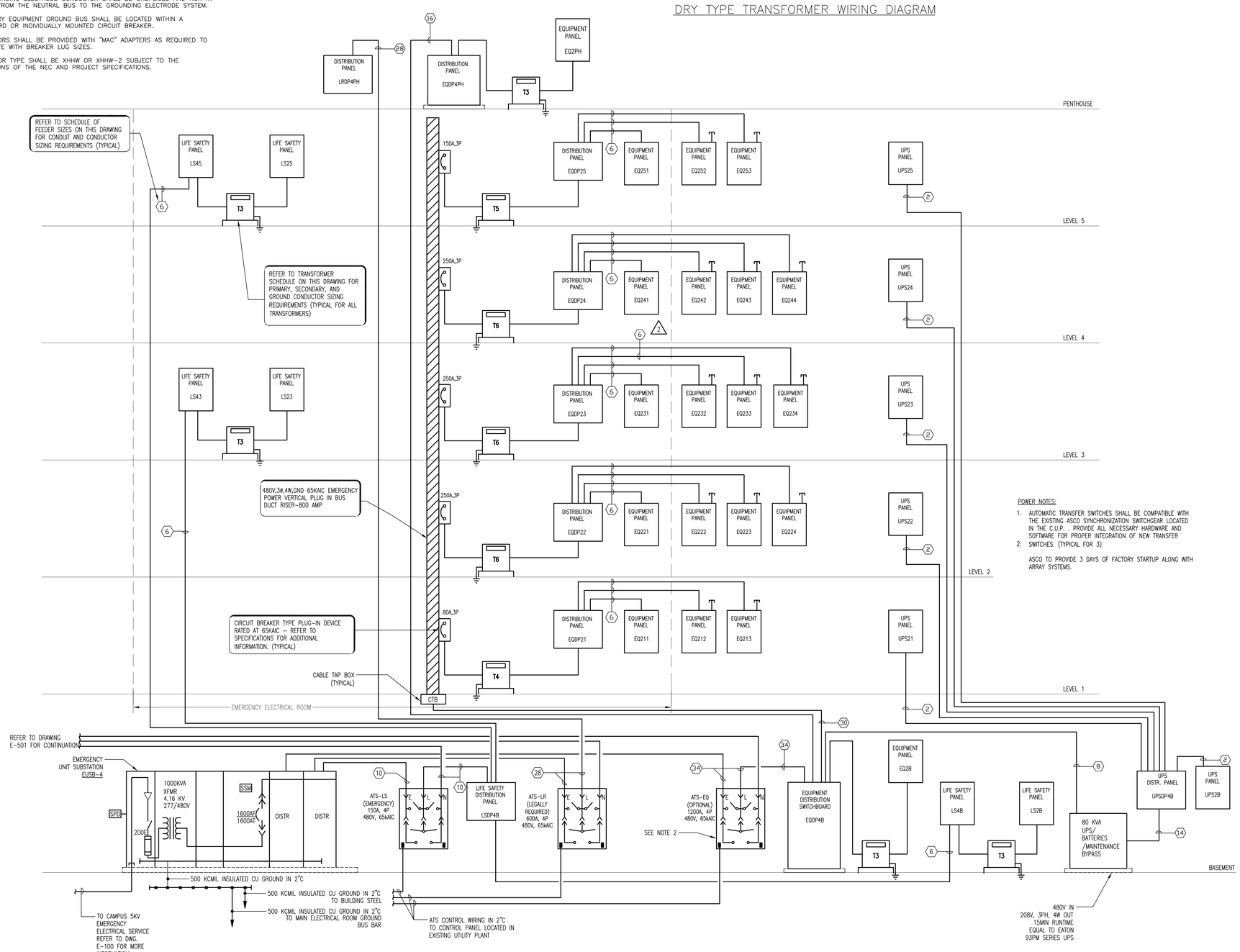
NOTES:

1. 600KCMIL FEEDERS SHALL BE PROVIDED WITH MAC ADAPTERS AS REQUIRED TO COORDINATE WITH BREAKER LUG SIZES.
2. SEE SPECIFICATIONS FOR ACCEPTABLE CONDUCTOR TYPES.



POWER NOTES:

1. AUTOMATIC TRANSFER SWITCHES SHALL BE COMPATIBLE WITH THE EXISTING ASCO SYNCHRONIZATION SWITCHGEAR LOCATED IN THE C.U.P. , . PROVIDE ALL NECESSARY HARDWARE AND SOFTWARE FOR PROPER INTEGRATION OF NEW TRANSFER
2. SWITCHES. (TYPICAL FOR 3)

   ASCO TO PROVIDE 3 DAYS OF FACTORY STARTUP ALONG WITH ARRAY SYSTEMS.

EMERGENCY POWER ELECTRICAL RISER DIAGRAM

SCALE : NTS

UNIVERSITY OF CONNECTICUT

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203 857 0200

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	03/20/2015	ADDENDUM 1
2	05/08/2015	ADDENDUM 6

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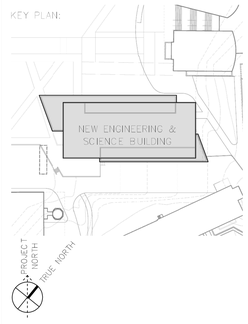
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

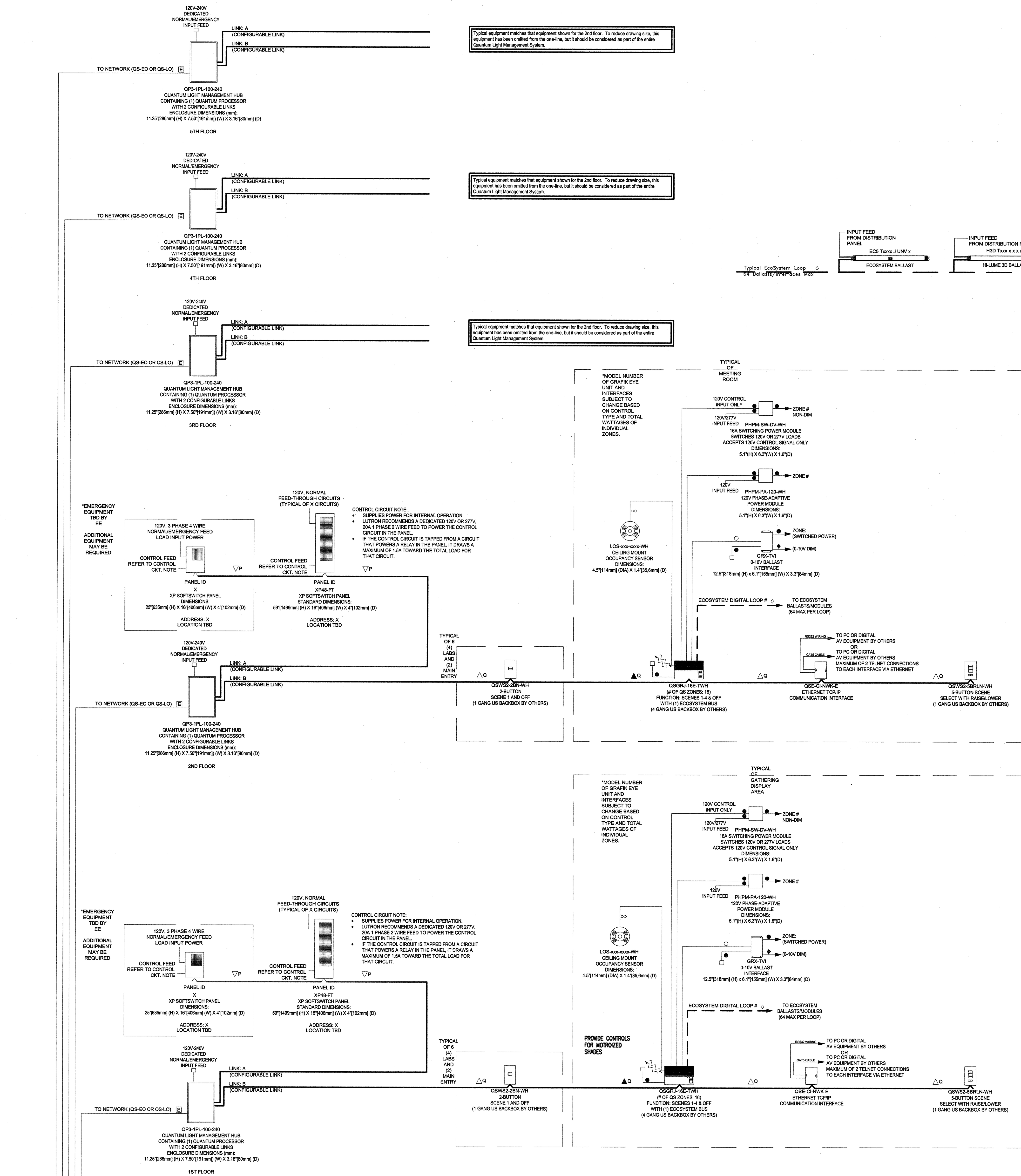
DRAWING TITLE:

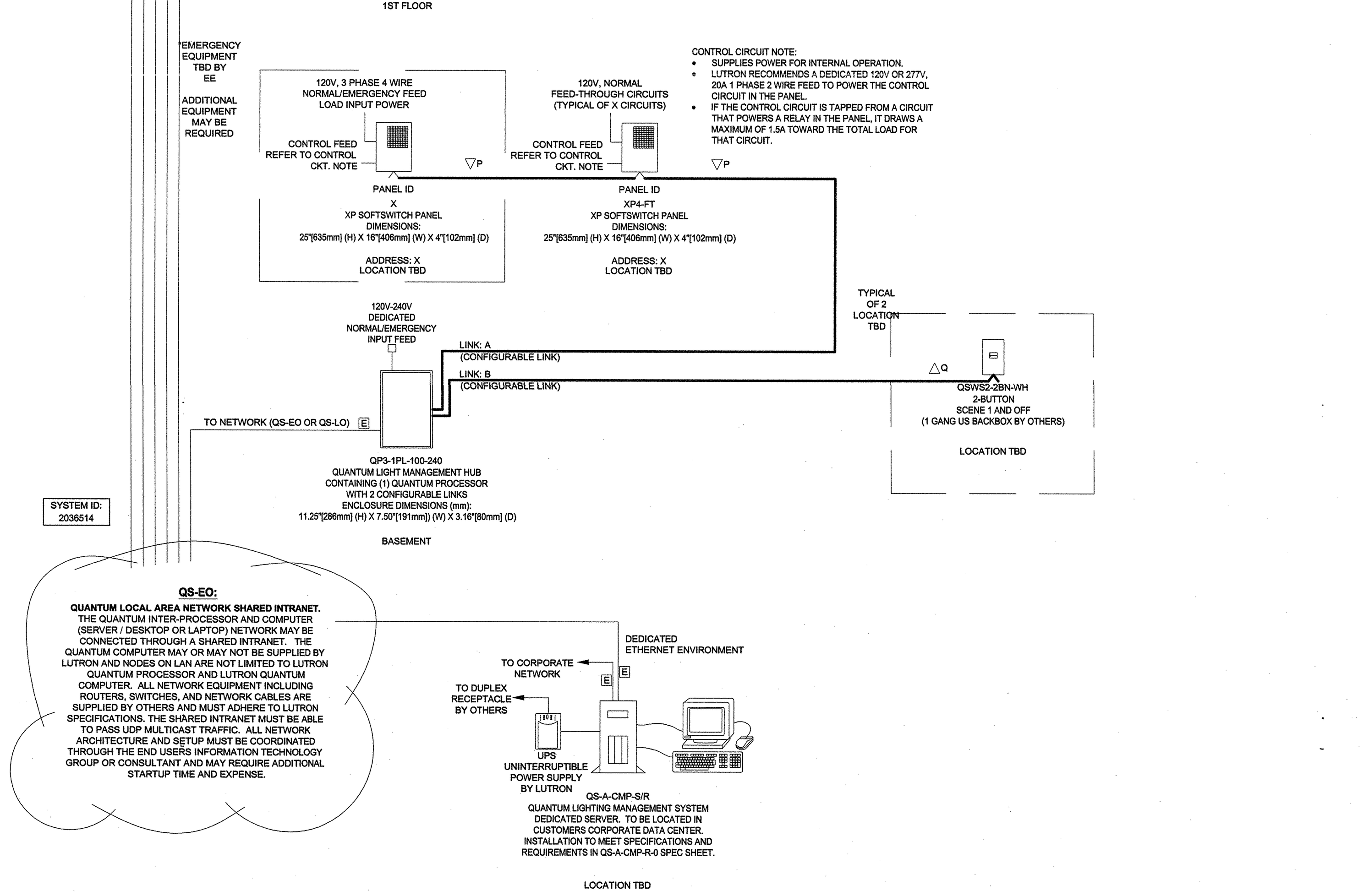
ELECTRICAL EMERGENCY POWER RISER DIAGRAM

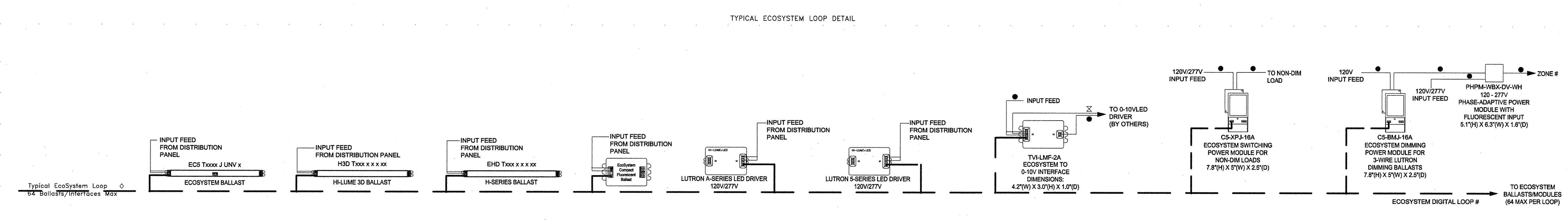
PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: NTS

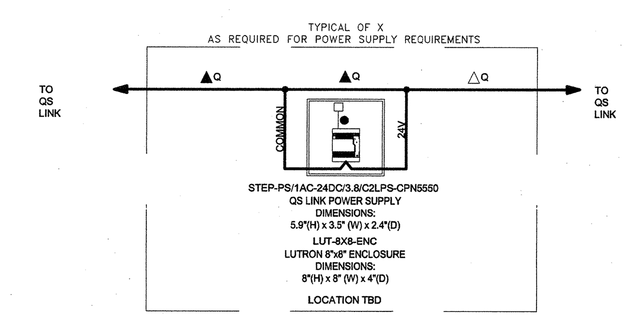
CONFORMED SET: 06/29/2015

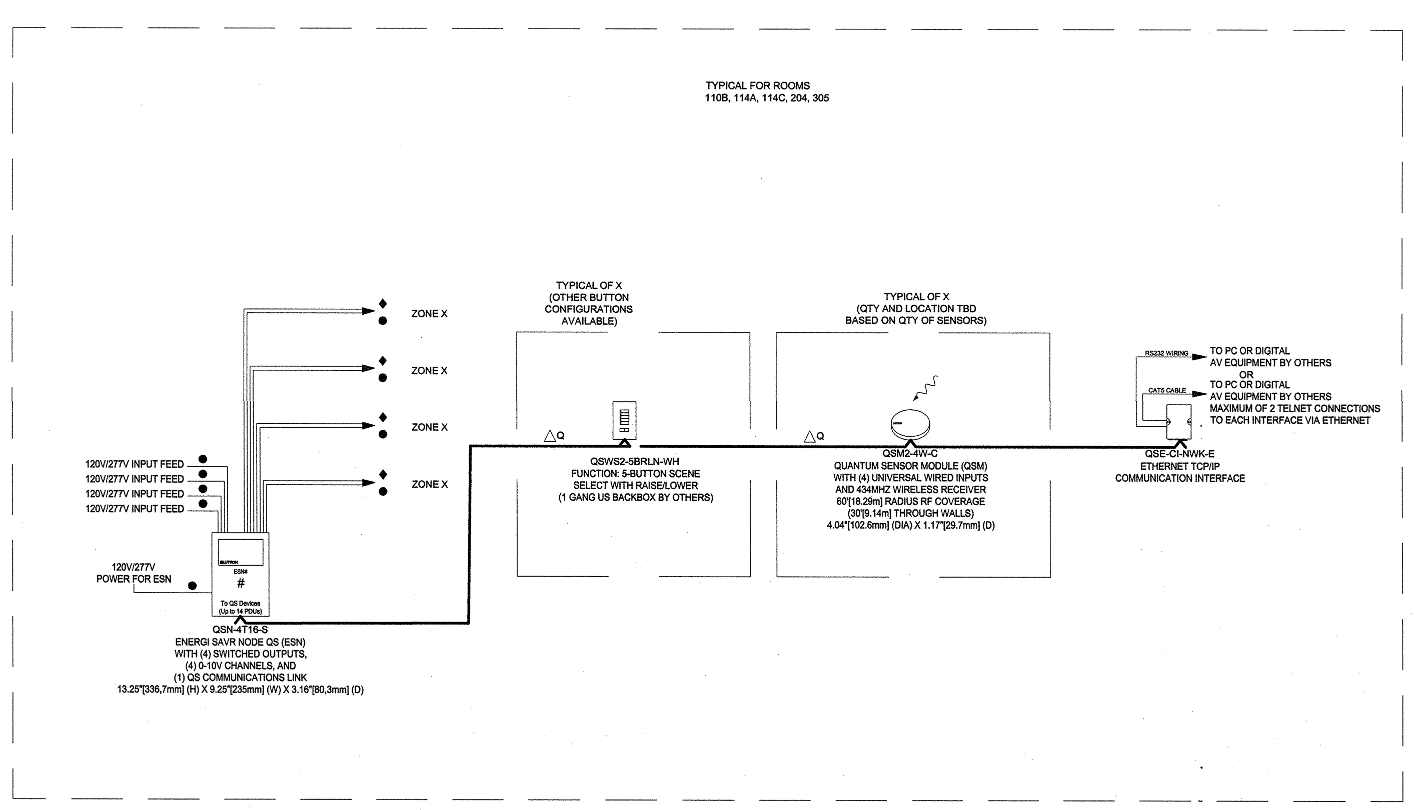
E-502











TYPE-2 ROOM LIGHTING CONTROL DETAIL

WIRING LEGEND:

△Q QS CONTROL LINK (SEE WIRE DESCRIPTION BELOW)

▲Q QS CONTROL LINK (SEE WIRE DESCRIPTION BELOW)
(CONNECT WIRES 1, 3 AND 4. DO NOT CONNECT WIRE # 2)

QS WIRING AS REQUIRED BY CONTROL LINK LENGTH
(REFER TO QS SMART PANEL POWER SUPPLY WIRING GUIDE FOR SHADE WIRING NOTES):

TOTAL CONTROL LINK LENGTH	Wire Gauge	AVAILABLE FROM LUTRON IN ONE CABLE:
LESS THAN 500ft (153 m)	POWER (TERMINALS 1&2): 1 PAIR 18 AWG (1.0 mm²)	GRX-CBL-346S OR GRX-PCBL-346S
	DATA (TERMINALS 3&4): 1 PAIR 22 AWG (0.5 mm²), TWISTED AND SHIELDED*	
500ft (153 m) TO 2,000ft (600 m)**	POWER (TERMINALS 1&2): 1 PAIR 12 AWG (4 mm²)	GRX-CBL-46L OR GRX-PCBL-46L
	DATA (TERMINALS 3&4): 1 PAIR 22 AWG (0.5 mm²), TWISTED AND SHIELDED*	

*ALTERNATE DATA-ONLY CABLE: USE APPROVED DATA LINK CABLE (22 AWG [0.5 mm ^{2}] TWISTED/SHIELDED) FROM BELDEN (MODEL # 9461).

**TOTAL LENGTH OF THE QS LINK MUST NOT EXCEED 2,000 ft (600 m).

□ INPUT POWER (NORMAL)

◪ INPUT POWER (NORMAL-EMERGENCY)

● 2 #12AWG (4 mm ^{2})

○ 3 #12AWG (4 mm ^{2})

◆ 0-10V SIGNAL: 2 #18AWG (1.0 mm ^{2})

[E] CAT5E OR BETTER CABLE FOR LUTRON NETWORK TERMINATED WITH RJ45 CONNECTORS (TO BE PROVIDED BY OTHERS). 328 ft (100 m) MAXIMUM RUN.

◇ ECOSYSTEM BUS/LOOP:
LUTRON CABLE C-CBL-216-GR-1 (2 #16 CONDUCTOR NON-PLENUM) OR C-PCBL-216-CL-1 (2 #16 CONDUCTOR PLENUM RATED). OTHERWISE USE 2 #16 AWG (1.5 mm ^{2}) BY OTHERS.

▽P PANEL LINK (SEE WIRE DESCRIPTION BELOW)

▼P PANEL LINK (SEE WIRE DESCRIPTION BELOW)
(CONNECT WIRES 1, 2, 3 AND 4. DO NOT CONNECT WIRE # 5)

LUTRON CABLE GRX-CBL-46L (5 CONDUCTOR NON-PLENUM) OR GRX-PCBL-46L (5 CONDUCTOR PLENUM RATED). OTHERWISE USE 2 #12 AWG (4 mm²), 1 BELDEN #9461 AND BETWEEN PANELS ADD 1 #18 AWG (1.0 mm²) FOR EMERGENCY SENSING CABLE BY OTHERS.

QS SMART PANEL POWER SUPPLY (QSPS-PX-10-60) QS WIRING GUIDE				
MAXIMUM DEVICES PER ONE OUTPUT		MAXIMUM DISTANCE PER ONE OUTPUT BASED ON WIRE GUAGE		
SHADES + CONTROLS		12 AWG (4 mm ^{2}) QSH-CBL-L-500 QSH-CBLP-L-500	16 AWG (1.5 mm ^{2}) QSH-CBL-M-500 QSH-CBLP-M-500	18 AWG (1.0 mm ^{2}) GRX-CBL-346S-500
NONE	UP TO 50 POWER DRAW UNITS	1,250 ft (375 m)	500 ft (150 m)	250 ft (75 m)
NONE	UP TO 25 POWER DRAW UNITS	2,000 ft (600 m)	1,000 ft (300 m)	600 ft (175 m)

QS INDIVIDUAL POWER SUPPLY (QSPS-PX-1-50 OR QSPS-J-1-50) QS WIRING GUIDE				
MAXIMUM DEVICES PER ONE OUTPUT		MAXIMUM DISTANCE PER ONE OUTPUT BASED ON WIRE GUAGE		
SHADES + CONTROLS		12 AWG (4 mm ^{2}) QSH-CBL-L-500 QSH-CBLP-L-500	16 AWG (1.5 mm ^{2}) QSH-CBL-M-500 QSH-CBLP-M-500	18 AWG (1.0 mm ^{2}) GRX-CBL-346S-500
NONE	UP TO 8 POWER DRAW UNITS	2,000 ft (600 m)		1,500 ft (450 m)

WIRING NOTES:

QS LINK RULES:
THE FOLLOWING LINK RULES MUST BE OBSERVED FOR PROPER OPERATION:

- THIS IS A TOPOLOGY-FREE LINK (T-TAP, HOME-RUN, ETC. IS OK); REFER TO TABLE BELOW FOR WIRE RUN LIMITS.
- IF WIRED DIFFERENTLY THAN WHAT IS SHOWN, POWER DRAW UNIT REQUIREMENTS NEED TO BE CONFIRMED; SEE POWER DRAW UNITS (PDUs) SPECIFICATION SHEET INCLUDED IN THIS SUBMITTAL.
- MAXIMUM OF 512 OUTPUTS (BALLASTS, SHADES, CONTACT CLOSURES, ETC).
- MAXIMUM OF 100 OCCUPANCY SENSORS, 100 DAYLIGHT SENSORS/RADIO SHADOW SENSORS AND 100 KEYPADS.
- MAXIMUM OF 100 QS DEVICES (SUCH AS A GRAFIK EYE® QS, SEETOUCH® QS KEYPAD, SMART PANEL POWER SUPPLY [QSPS-Px-10-60], ESN, OR SIVOIA® QS SHADE / DRAPERY DRIVE UNIT). QUANTUM PROCESSOR COUNTS AS 1 DEVICE PER LINK.
- MAXIMUM OF 100 ZONES - SUCH AS A SIVOIA QS SHADE / DRAPERY DRIVE UNIT, OR A LIGHTING ZONE ON A GRAFIK EYE QS (DOES NOT APPLY TO QUANTUM SYSTEMS).
- THE 10 OUTPUTS ON A QSPS-Px-10-60 CANNOT EXCEED A COMBINED LENGTH OF 2,000 ft (600 m).

PANEL LINK RULES:
THE FOLLOWING LINK RULES MUST BE OBSERVED FOR PROPER OPERATION:

- PANELS ARE DAISY-CHAINED ON ONE OF THE CONFIGURABLE LINKS PER LUTRON'S DRAWING, HOWEVER THEY DO NOT HAVE TO BE IN THE ORDER SHOWN.
- DO NOT HOME-RUN OR T-TAP THIS WIRING LINK. ALL CIRCUITS NEED TO BE LANDED IN THESE PANELS PER LUTRON'S PANEL SCHEDULES.
- THE MAXIMUM WIRE LENGTH OF A PANEL LINK IS 2,000 ft (600 m). A MX-RPTR IS USED TO EXTEND THE LENGTH OF A LINK ANOTHER 2,000 ft (600 m). A MAXIMUM OF (3) MX-RPTR'S MAY BE USED PER LINK FOR MAXIMUM LENGTH OF 8,000 ft (2,430 m) PER LINK.
- IF A PANEL IS MOVED TO ANOTHER LINK, OR THE LOADS ARE NOT WIRED AS SHOWN IN LUTRON PANEL SCHEDULES, LUTRON MUST BE NOTIFIED. THIS INFORMATION IS IMPORTANT FOR PROGRAMMING THE SYSTEM.
- UP TO 32 CIRCUIT SELECTORS PER LINK
- UP TO 512 SWITCH LEGS OR ZONES PER LINK
- LT-1 LINK TERMINATORS NEEDED ON EACH END OF THE LINK

ECOSYSTEM BUS/LOOP RULES:
THE FOLLOWING LOOP RULES MUST BE OBSERVED FOR PROPER OPERATION:

- THIS IS TOPOLOGY-FREE AND POLARITY FREE WIRING (T-TAP, HOME-RUN, ETC. IS OK).
- KEEP ALL THE BALLASTS/MODULES IN ONE ROOM ON THE SAME LOOP WHENEVER POSSIBLE.
- WIRE DAYLIGHT SENSORS, OCCUPANCY SENSORS AND PERSONAL CONTROLS TO THE CLOSEST ECOSYSTEM BALLAST/ SENSOR MODULE IN THE SAME ROOM.
- ECOSYSTEM LOOPS ARE SHOWN ON THE LIGHTING PLANS. IF THERE IS A DISCREPANCY, AND ROOMS ARE WIRED TO A DIFFERENT LOOP THAN THE ONE SHOWN, LUTRON NEEDS TO BE NOTIFIED. THIS INFORMATION IS IMPORTANT FOR PROGRAMMING THE SYSTEM.
- UP TO 64 BALLASTS/MODULES PER ECOSYSTEM LOOP
- UP TO 64 IR CONTROLS PER LOOP
- UP TO 16 DAYLIGHT SENSORS PER LOOP
- UP TO 32 OCCUPANT SENSORS PER LOOP

QUANTUM NETWORK

WHEN A LIGHTING MANAGEMENT NETWORK (LMN) IS REQUIRED TO ENABLE COMMUNICATIONS BETWEEN INDIVIDUAL LIGHT MANAGEMENT HUBS (LMH) AND BETWEEN LMH AND THE SYSTEM SERVER/DESKTOP/LAPTOP (Q-MANAGER). THE LMN REQUIRES A DEDICATED LAN OR VLAN. IT IS THE RESPONSIBILITY OF THE NETWORK PROVIDER TO ENSURE THE RELIABILITY AND SECURITY OF THE LMN.

CAT5E OR BETTER ETHERNET CABLE TO BE RUN FOR DEDICATED LMN TERMINATED WITH RJ45 CONNECTORS (PROVIDED BY OTHERS). THE NUMBER OF ETHERNET HOPS/SEGMENTS BETWEEN THE SERVER/DESKTOP/LAPTOP (Q-MANAGER) AND ANY LMN NODE SHALL NOT EXCEED 6. TOTAL LENGTH OF ETHERNET CABLE SHALL NOT EXCEED 328 FT (100M) POINT-TO-POINT.

IF LONGER RUNS ARE REQUIRED, MULTI-MODE FIBER OPTIC CABLE CAN BE USED INSTEAD WITH APPROPRIATE FIBER OPTIC CONNECTORS (PROVIDED BY OTHERS). CONSULT WITH NETWORK PROVIDER FOR STANDARD ETHERNET AND FIBER OPTIC WIRING RULES FOR DISTANCE AND SEPARATION AS WELL AS FOR PLACEMENT OF SWITCHES, ROUTERS, HUBS, ETC.

FOR MORE INFORMATION REGARDING NETWORK EQUIPMENT REQUIREMENTS AND NETWORK CONFIGURATION, PLEASE REFER TO THE QUANTUM LIGHTING MANAGEMENT NETWORK SPECIFICATION SHEET OR CONTACT LUTRON.

LED dimming requires an exact match between the LED array, driver and control. Lutron cannot guarantee compatibility or performance without testing this combination.

To confirm what products Lutron has available or what interfaces may be required, call 1-877-DIM-LED8 or check Lutron's Product Compatibility Matrix on-line at www.lutron.com/LED.

To request the testing of an LED product by Lutron manufacturers can fill out an LED Evaluation Request Form on-line at www.lutron.com/LED or contact LEDs@lutron.com.

Lutron can guarantee compatibility and performance of Lutron Hi-lume A-Series LED Drivers used with appropriate Lutron controls. The Hi-lume A-Series LED Driver can be used on products under 40 Watts with suitable mounting locations. Please refer to the Specification Submittal Sheet for further information.

If using untested, non-Lutron LED drivers requiring 0-10V control, performance and compatibility cannot be guaranteed by Lutron. Products following the IEC Standard 60929 are more likely to provide acceptable performance results. Determination of result acceptability is up to the user's discretion.

If using untested, non-Lutron LED drivers requiring phase control, performance and compatibility cannot be guaranteed by Lutron. A-Series or ELV products providing high end and low end trim adjustments are more likely to provide acceptable performance results. Determination of result acceptability is up to the user's discretion.

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NO.	DATE	COMMENTS

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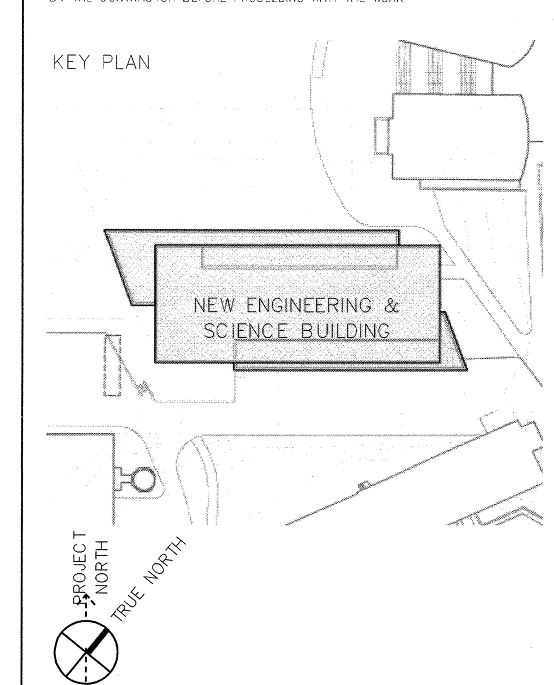
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

Drawing Title:

ELECTRICAL LIGHTING CONTROL ONE-LINE DIAGRAM

CONFORMED SET 05/29/2015

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: NTS

E-503

Distribution Panel: DP4B

Location: WATER TANK EQUIPMENT... **Volts:** 480/277 Wye **A.I.C.:**
Supply From: **Phases:** 3 **A.S.C.:**
Mounting: Surface **Wires:** 4 **Mains Type:** MLO
Enclosure: Type 1 **Neutral:** **Mains Rating:** 100 A
Breakers: 0 **Ground Bus:** **MCB Rating:**

Notes:

CKT	Circuit Description	Frame Size	Trip Rating	# of Poles	Load	Feeder Size	Remarks
1	SUMP PUMP (1HP) ELEV	100 A	15 A	3	1 kVA		
2	DOMESTIC WATER BOOSTER (3@10HP)	100 A	60 A	3	22 kVA		
3	GREY WATER SYSTEM (3@10HP)	100 A	60 A	3	22 kVA		
4	CHP-3	225 A	150 A	3	54 kVA		
5	CHP-2	225 A	150 A	3	54 kVA		
6	CHP-1	225 A	150 A	3	54 kVA		
7	CHP-4	150 A	50 A	3	17 kVA		
8	CHP-5	150 A	50 A	3	17 kVA		
9	EF-9 (3HP)	100 A	15 A	3	4 kVA		SEE MOTOR WIRING SCHEDULE
10	Spare	--	0 A	3	0 kVA		100AF/100AT
11	Spare	--	0 A	3	0 kVA		100AF/50AT
12	Spare	--	0 A	3	0 kVA		100AF/50AT
13	Spare	--	0 A	3	0 kVA		100AF/30AT
14	Spare	--	0 A	3	0 kVA		100AF/30AT
15	Space	--	--	--	0 kVA		--
16	Space	--	--	--	0 kVA		--
17	Space	--	--	--	0 kVA		--
18	Space	--	--	--	0 kVA		--

Total Conn. Load: 245192.7 VA
Ttl Demand Load: 159.375 kVA
Total Demand Amps: 191.699 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	245193 VA	65.00%	159375 VA		
				Total Conn. Load:	245193 VA
				Total Est. Demand:	159375 VA
				Total Conn.:	295 A
				Total Est. Demand:	192 A

Notes:

Distribution Panel: EQDP4B

Location: MAIN EMERGENCY... **Volts:** 277/480V **A.I.C.:**
Supply From: **Phases:** 3 **A.S.C.:**
Mounting: Surface **Wires:** 4 **Mains Type:** MLO
Enclosure: Type 1 **Neutral:** **Mains Rating:** 1200 A
Breakers: 0 **Ground Bus:** **MCB Rating:**

Notes:

CKT	Circuit Description	Frame Size	Trip Rating	# of Poles	Load	Feeder Size	Remarks
1	FOUNDATION DRAIN PUMPS (2@1/2HP)	100 A	15 A	3	1 kVA		
2	PRE-ACTION (1HP)	100 A	15 A	3	1 kVA		
3	SEWAGE EJECTOR SYSTEM (2@5HP)	100 A	30 A	3	7 kVA		
4	HWP-1 (20HP)	100 A	60 A	3	22 kVA		
5	HWP-2 (20HP)	100 A	60 A	3	22 kVA		
6	HWP-3 (20HP)	100 A	60 A	3	22 kVA		
7	HWP-4 (5HP)	100 A	15 A	3	4 kVA		
8	800A BUSWAY	800 A	800 A	3	343 kVA		
9	Spare	--	100 A	3	0 kVA		100AF
10	FCU-10 (15HP)	100 A	50 A	3	17 kVA		
11	CP-2 (2@5HP - 1 STANDBY) 1 B06	100 A	15 A	3	6 kVA		
12	CP-3 (2@5HP - 1 STANDBY) 1B04	100 A	15 A	3	6 kVA		
13	Spare	--	50 A	3	0 kVA	100AF	
14	Spare	--	50 A	3	0 kVA	100AF	
15	Spare	--	60 A	3	0 kVA	100AF	
16	Spare	--	60 A	3	0 kVA	100AF	
17	Spare	--	20 A	3	0 kVA	100AF	
18	Spare	--	20 A	3	0 kVA	100AF	
19	Spare	--	30 A	3	0 kVA	100AF	
20	Space	--	--	--	0 kVA		--
21	Space	--	--	--	0 kVA		--
22	Space	--	--	--	0 kVA		--
23	Space	--	--	--	0 kVA		--
24	Space	--	--	--	0 kVA		--
25	Space	--	--	--	0 kVA		--
26	Space	--	--	--	0 kVA		--
27	Space	--	--	--	0 kVA		--
28	Space	--	--	--	0 kVA		--
29	Space	--	--	--	0 kVA		--
30	Space	--	--	--	0 kVA		--
31	Space	--	--	--	0 kVA		--
32	Space	--	--	--	0 kVA		--
33	Space	--	--	--	0 kVA		--
34	Space	--	--	--	0 kVA		--
35	Space	--	--	--	0 kVA		--
36	Space	--	--	--	0 kVA		--

Total Conn. Load: 452588.9 VA
Ttl Demand Load: 283.836 kVA
Total Demand Amps: 341.402 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	350279 VA	65.00%	227681 VA		
Receptacle	102310 VA	54.89%	56155 VA	**Total Conn. Load:**	452589 VA
				Total Est. Demand:	283836 VA
				Total Conn.:	544 A
				Total Est. Demand:	341 A

Notes:

Distribution Panel: LSDP4B

Location: MAIN EMERGENCY... **Volts:** 480/277 Wye **A.I.C.:**
Supply From: **Phases:** 3 **A.S.C.:**
Mounting: Surface **Wires:** 4 **Mains Type:** MLO
Enclosure: Type 1 **Neutral:** **Mains Rating:** 150 A
Breakers: 0 **Ground Bus:** **MCB Rating:**

Notes:

CKT	Circuit Description	Frame Size	Trip Rating	# of Poles	Load	Feeder Size	Remarks
1	LS4B	100 A	100 A	3	8 kVA		
2	LS43	100 A	100 A	3	6 kVA		
3	LS45	100 A	100 A	3	9 kVA		
4	Spare	--	0 A	3	0 kVA		100AF/100AT
5	Spare	--	0 A	3	0 kVA		100AF/100AT
6	Space	--	--	--	0 kVA		--
7	Space	--	--	--	0 kVA		--
8	Space	--	--	--	0 kVA		--
9	Space	--	--	--	0 kVA		--
10	Space	--	--	--	0 kVA		--
11	Space	--	--	--	0 kVA		--
12	Space	--	--	--	0 kVA		--

Total Conn. Load: 24112.5 VA
Ttl Demand Load: 24.206 kVA
Total Demand Amps: 29.116 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	4550 VA	65.00%	2958 VA		
Lighting	10894 VA	125.00%	13618 VA	**Total Conn. Load:**	24238 VA
Lighting - Dwelling Unit	5004 VA	73.97%	3701 VA	**Total Est. Demand:**	24206 VA
Lighting - Exterior	560 VA	125.00%	700 VA	**Total Conn.:**	29 A
Other	3230 VA	100.00%	3230 VA	**Total Est. Demand:**	29 A

Notes:

UNIT SUBSTATION "US4B-1" (BASEMENT)

HORZ. BUS: 600A @ 15KV	VERT. BUS: 600A @ 15KV		S.C.R.: 25k	NEUT. BUS: NONE	
GROUND BUS: FULL SIZE	NEMA CLASS: SEE SPEC.		VOLTAGE: 15KV	ENCLOSURE NEMA TYPE: SEE SPEC.	
M1A	15kV LOAD INTERRUPTER LOOP SWITCH	3	600A	200 E FUSE	SEE SPECS

	TRANSFORMER SIZE	PRI VOLTAGE	SEC VOLTAGE	REMARKS
T1A	2000/2666 KVA AA/FA VPI TRANSFORMER	13800	480Y/277V	SEE SPECS

COMPT. NO.	EQUIPMENT DESIGNATION	DISCONNECT DEVICE POLES	FRAME	TRIP	TYPE	FEEDER	REMARKS
HORZ. BUS: 3200A	VERT. BUS: 3200A		S.C.R.: 65,000			NEUT. BUS: 3200A	
GROUND BUS: FULL SIZE	NEMA CLASS: SEE SPEC.		VOLTAGE: 480/277V 3Ø, 4W			ENCLOSURE NEMA TYPE: SEE SPEC.	
1A	MAIN DEVICE	3	3200	3200			
2A	1600A BUSWAY	3	1600	1600		REFER TO DWG. E-501	
3A	LIGHTING PANEL L4B	3	800	150		REFER TO DWG. E-501	
4A	DISTRIBUTION PANEL DP4PH	3	1600	1200		REFER TO DWG. E-501	
5A	SPARE	3	800	800			
6A	SPARE	3	800	400			
7A	SPARE	3	800	400			
8A	SPARE	3	800	400			
	TIE-IN CIRCUIT BREAKER	3	3200	3200			

UNIT SUBSTATION "US4B-2" (B LEVEL)

HORZ. BUS: 600A @ 15KV	VERT. BUS: 600A @ 15KV		S.C.R.: 25k	NEUT. BUS: NONE	
GROUND BUS: FULL SIZE	NEMA CLASS: SEE SPEC.		VOLTAGE: 15KV	ENCLOSURE NEMA TYPE: SEE SPEC.	
M1B	15kV LOAD INTERRUPTER LOOP SWITCH	3	600A	200 E FUSE	SEE SPECS

	TRANSFORMER SIZE	PRI VOLTAGE	SEC VOLTAGE	REMARKS
T1B	2000/2666 KVA AA/FA VPI TRANSFORMER	13800	480Y/277V	SEE SPECS

COMPT. NO.	EQUIPMENT DESIGNATION	DISCONNECT DEVICE POLES	FRAME	TRIP	TYPE	FEEDER	REMARKS
HORZ. BUS: 3200A	VERT. BUS: 3200A		S.C.R.: 65,000			NEUT. BUS: 3200A	
GROUND BUS: FULL SIZE	NEMA CLASS: SEE SPEC.		VOLTAGE: 480/277V 3Ø, 4W			ENCLOSURE NEMA TYPE: SEE SPEC.	
1B	MAIN DEVICE	3	3000	3000			
2B	EMERGENCY PANEL "LSDP4B" VIA ATS-LS	3	800	150			
3B	DISTRIBUTION PANEL DP4B (2)	3	800	250		REFER TO DWG. E-501	
4B	LEGALLY REQUIRED DISTRIBUTION PANEL "LRDP4PH" VIA ATS-LR	3	800	150		REFER TO DWG. E-501	
5B	EMERGENCY SWITCHBOARD "EQDP4B" VIA ATS-EQ	3	1600	1200		REFER TO DWG. E-501	
6B	SPARE	3	800	600		REFER TO DWG. E-501	
7B		3	800	200			
8B		3	800	400			

UNIT SUBSTATION "EUS4-B" (BASEMENT)

HORZ. BUS: 600A @ 5KV	VERT. BUS: 600A @ 5KV		S.C.R.: 25k	NEUT. BUS: NONE	
GROUND BUS: FULL SIZE	NEMA CLASS: SEE SPEC.		VOLTAGE: 5KV	ENCLOSURE NEMA TYPE: SEE SPEC.	
M1A	MEDIUM VOLTAGE CABLE TERMINATION SECTION	3	600A	200 E FUSE	SEE SPECS

	TRANSFORMER SIZE	PRI VOLTAGE	SEC VOLTAGE	REMARKS
T1A	1000/1333 KVA AA/FA VPI TRANSFORMER	5000	480Y/277V	SEE SPECS

COMPT. NO.	EQUIPMENT DESIGNATION	DISCONNECT DEVICE POLES	FRAME	TRIP	TYPE	FEEDER	REMARKS
HORZ. BUS: 1600A	VERT. BUS: 1600A		S.C.R.: 65,000			NEUT. BUS: 1600A	
GROUND BUS: FULL SIZE	NEMA CLASS: SEE SPEC.		VOLTAGE: 480/277V 3Ø, 4W			ENCLOSURE NEMA TYPE: SEE SPEC.	
1A	MAIN DEVICE	3	1600	1600			
2A	EMERGENCY PANEL "LSDP4B" VIA ATS-LS (2)	3	800	150		REFER TO DWG. E-502	
3A	LEGALLY REQUIRED DISTRIBUTION PANEL "LRDP4PH" VIA ATS-LR	3	800	150		REFER TO DWG. E-502	
4A	EMERGENCY SWITCHBOARD "EQDP4B" VIA ATS-EQ	3	1600	1200		REFER TO DWG. E-502	
5A	SPARE	3	800	400			
6A	SPARE	3	800	200			
7A	SPACE	3	-	-		-	BUS & HARDWARE
8A	SPACE	3	-	-		-	BUS & HARDWARE

(1)

GENERAL NOTES:

1. SPARE CIRCUIT BREAKERS IN ALL PANELS UPDATED VIA ADDENDUM #1.

CONFORMED SET: 05/29/2015

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NO.	DATE	COMMENTS
1	2015-03-23	BID ADDENDUM 01
2	2015-05-08	ADDENDUM 06

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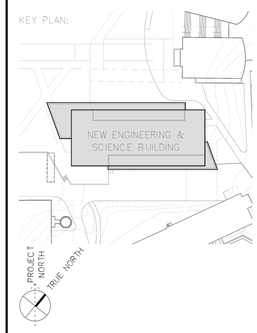
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:

ELECTRICAL PANEL SCHEDULES

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

E-600

Branch Panel: L4B

Location: MAIN ELECTRICAL ROOM B02 | **Volts:** 277/480V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Lighting	20 A	1	1320...	1980...					1	20 A	Lighting	2
3	Lighting	20 A	1			428 VA	329 VA			1	20 A	Lighting	4
5	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	6
7	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	8
9	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	10
11	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	12
13	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	14
15	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	3300 VA		757 VA		0 VA					
			Total Amps:	12 A		3 A		0 A					

Branch Panel: LS4B

Location: MAIN EMERGENCY... | **Volts:** 277/480V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Lighting	20 A	1	1020...	960 VA					1	20 A	Lighting	2
3	Lighting	20 A	1			100 VA	1190...			1	20 A	Lighting - Dwelling Unit VIRTUAL REALITY SPAC...	4
5	Lighting	20 A	1					349 VA	520 VA	1	20 A	Lighting	6
7	Spare	20 A	1	0 VA	2133...					1	20 A	EM Light Rms 101A, V01, 103,116, 112	8
9	1st Floor Exit Lighting	20 A	1			170 VA	551 VA			1	20 A	EM Lights 1st Floor Corridors	10
11	Lighting - Exterior	20 A	1					350 VA	328 VA	1	20 A	Lighting - Dwelling Unit LOBBY C1A	12
13	Lighting - Dwelling Unit	20 A	1	144 VA	1000...					3	60 A	PANEL LS2B VIA 30 kVA TRANSFORMER	14
15	Spare	20 A	1			0 VA	900 VA			--	--	--	16
17	Spare	20 A	1					0 VA	0 VA	--	--	--	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
			Total Load:	5257 VA		2911 VA		1547 VA					
			Total Amps:	20 A		11 A		6 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	900 VA	65.00%	585 VA		
Lighting	6569 VA	125.00%	8211 VA	**Total Conn. Load:**	8971 VA
Lighting - Dwelling Unit	858 VA	100.00%	858 VA	**Total Est. Demand:**	10386 VA
Lighting - Exterior	350 VA	125.00%	438 VA	**Total Conn.:**	11 A
Other	294 VA	100.00%	294 VA	**Total Est. Demand:**	12 A

Distribution Panel: UPSDP2B

Location: MAIN EMERGENCY... | **Volts:** 120/208 Wye | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Breakers: 0 | **Ground Bus:** | **MCB Rating:**

Notes:

CKT	Circuit Description	Frame Size	Trip Rating	# of Poles	Load	Feeder Size	Remarks
1	UPS2B	100 A	100 A	3	15 kVA		
2	UPS21	100 A	100 A	3	15 kVA		
3	UPS22	100 A	100 A	3	15 kVA		
4	UPS23	100 A	100 A	3	15 kVA		
5	UPS24	100 A	100 A	3	15 kVA		
6	UPS25	100 A	100 A	3	15 kVA		
7							
8							
9							
10							
11							
12							

Total Conn. Load: 90720.0 VA
Ttl Demand Load: 61.236 kVA
Total Demand Amps: 169.974 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	84240 VA	65.00%	54756 VA		
Receptacle	6480 VA	100.00%	6480 VA	**Total Conn. Load:**	90720 VA
				Total Est. Demand:	61236 VA
				Total Conn.:	252 A
				Total Est. Demand:	170 A

Notes:

Branch Panel: LS2B

Location: MAIN EMERGENCY... | **Volts:** 120/208 Wye | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MCB
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:** 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	FACP	20 A	1	500 VA	500 VA					1	20 A	FAA & PS	2
3	Fire Smoke Damper (1st Floor)	20 A	1			900 VA	0 VA			1	20 A	(FA) MS Power Supply	4
5	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	6
7	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	8
9	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	10
11	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	12
			Total Load:	1000 VA		900 VA		0 VA					
			Total Amps:	9 A		9 A		0 A					

Branch Panel: EQ2B

Location: MAIN EMERGENCY... | **Volts:** 120/208 Wye | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MCB
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:** 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	540 VA	540 VA					1	20 A	Receptacle	2
3	Receptacle	20 A	1			540 VA	1080...			1	20 A	Receptacle	4
5	Receptacle	20 A	1					720 VA	540 VA	1	20 A	Receptacle Room B06, B09	6
7	FCU-1 Room B06	20 A	3	900 VA	900 VA					3	20 A	FCU-1 Room B04D	8
9	--	--	--			900 VA	900 VA			--	--	--	10
11	--	--	--					900 VA	900 VA	--	--	--	12
13	Receptacle RM. B01B	20 A	1	360 VA	400 VA					1	20 A	HVAC CONTROL PANEL MEP ROOM B04	14
15	ATC MEP ROOM B04	20 A	1			250 VA	1800...			1	20 A	ATC CORRIDOR B07	16
17	ATC MEP ROOM B04	20 A	1					250 VA	1800...	1	20 A	ATC CORRIDOR B07	18
19	ATC ELEVATOR LOBBY B01	20 A	1	250 VA	864 VA					1	20 A	FCU-8 MEP ROOM B04	20
21	ATC ELEVATOR LOBBY B01	20 A	1			250 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
			Total Load:	4754 VA		5720 VA		5110 VA					
			Total Amps:	40 A		48 A		43 A					

Branch Panel: R2B

Location: MAIN ELECTRICAL ROOM B02 | **Volts:** 120/208 Wye | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MCB
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 150 A
Ground Bus: | **MCB Rating:** 150 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle MAIN ELEC. RM.	20 A	1	720 VA	540 VA					1	20 A	Receptacle UTILITY TUNNEL	2
3	Receptacle CORRIDOR B07	20 A	1			540 VA	540 VA			1	20 A	Receptacle ELEV. LOBBY B01	4
5	Receptacle CORRIDOR B07	20 A	1					540 VA	540 VA	1	20 A	Receptacle MEP RM. B04	6
7	Receptacle RM. B01B	20 A	1	720 VA	720 VA					1	20 A	Receptacle MECHANICAL B06	8
9	Power MEP ROOM B04	20 A	1			1800...	1800...			1	20 A	Power MEP ROOM B04	10
11	EWC ELEVATOR LOBBY B01	20 A	1					500 VA	360 VA	1	20 A	Receptacle GENERAL MAINT. AND TRADES...	12
13	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	14
15	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
			Total Load:	2700 VA		4680 VA		1940 VA					
			Total Amps:	23 A		40 A		16 A					

Branch Panel: UPS2B

Location: BUILDING ENTRANCE FACILIT... | **Volts:** 120/208 Wye | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 60 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RACK 1 ENT FACILITY/CNTRL EQUIP RM B04D	30 A	3	2340...	2340...					3	30 A	RACK 1 ENT FACILITY/CNTRL EQUIP RM B04D	2
3	--	--	--			2340...	2340...			--	--	--	4
5	--	--	--					2340...	2340...	--	--	--	6
7	RACK 2 ENT FACILITY/CNTRL EQUIP RM B04D	20 A	1	360 VA	360 VA					1	20 A	VOICE ENT FACILITY/CNTRL EQUIP RM B04D	8
9	VOICE RM. B01B	20 A	1			360 VA							10
11	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	12
			Total Load:	5400 VA		5040 VA		4680 VA					
			Total Amps:	45 A		42 A		39 A					

GENERAL NOTES:

1. SPARE CIRCUIT BREAKERS IN WALL PANELS UPDATED VIA ADDENDUM #1.

1

CONFORMED SET: 05/29/2015

UNIVERSITY OF CONNECTICUT

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ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	2015-03-23	BID ADDENDUM 01

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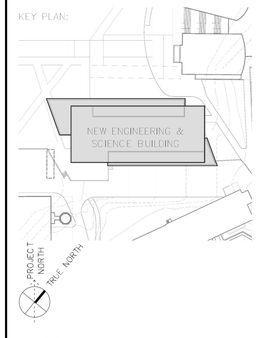
ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK

KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:

ELECTRICAL PANEL SCHEDULES

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

E-601

Branch Panel: RP21

Location: ELECTRICAL CLOSET 112 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle Meeting rm, 114A	20 A	1	900 VA	900 VA					1	20 A	Receptacle Tech Office 113	2
3	Receptacle 1A, RR1B, Jan 117	20 A	1			540 VA	500 VA			1	20 A	Electric Water Cooler	4
5	Receptacle Lobby C1A	20 A	1					900 VA	540 VA	1	20 A	Receptacle Loading Dock 116	6
7	Receptacle Vending V01	20 A	1	900 VA	360 VA					1	20 A	Receptacle Data 116A, 116B	8
9	Refrigerator Vending V01	20 A	1			900 VA	360 VA			1	20 A	Receptacle Smart Bldg, Office 101A	10
11	Receptacle Smart Bldg, Office 101A	20 A	1					900 VA	1080...	1	20 A	Receptacle Meeting rm, 104	12
13	Receptacle Rm, 101	20 A	1	360 VA	720 VA					1	20 A	Receptacle Meeting rm, 114C	14
15	Receptacle Meeting rm, 114C	20 A	1			1260...	610 VA			1	20 A	Poke-thru Gathering Display 121	16
17	Poke-thur Gathering Data 121	20 A	1					720 VA	1080...	1	20 A	Receptacle Smart Building Display 101	18
19	Receptacle Meeting rm, 114C	20 A	1	720 VA	540 VA					1	20 A	Receptacle Meeting rm, 104	20
21	Receptacle Meeting rm, 114A	20 A	1			1080...	800 VA			1	20 A	Power GATHERING/DISPLAY SPACE 121	22
23	Receptacle Smart Bldg, Office 101	20 A	1					360 VA	1200...	1	20 A	Power GATHERING/DISPLAY SPACE 121	24
25	Projector GATHERING/DISPLAY SPACE 121	20 A	1	800 VA	720 VA					1	20 A	Receptacle Data Closet 116A	26
27	Motorized Screen GATHERING/DISPLAY SPACE...	20 A	1			400 VA	360 VA			1	20 A	Poke-Thru GATHERING/DISPLAY SPACE 121	28
29	Poke-Thru GATHERING/DISPLAY SPACE 121	20 A	1					360 VA	360 VA	1	20 A	Receptacle MEETING ROOM 114C	30
31	Poke-Thru Space CC4185	20 A	1	360 VA	360 VA					1	20 A	Receptacle DRY LAB 1B 110	32
33	Quad CATV wall DATA CLOSET 116A	20 A	1			360 VA	0 VA			1	20 A	Spare	34
35	Receptacle Corridor C1B	20 A	1					360 VA	180 VA	1	20 A	Receptacle MEETING ROOM 110B	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	7640 VA		7170 VA		8040 VA					
			Total Amps:	64 A		60 A		68 A					

Branch Panel: UPS21

Location: IDF 116A | **Volts:** 120/208 Wye | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 60 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Equipment DATA CLOSET 116A	30 A	3	2340...	2340...					3	30 A	Equipment DATA CLOSET 116A	2
3	--	--	--			2340...	2340...			--	--	--	4
5	--	--	--					2340...	2340...	--	--	--	6
7	Receptacle DATA CLOSET 116A	20 A	1	360 VA	360 VA					1	20 A	Receptacle DATA CLOSET 116A	8
9	Receptacle DATA CLOSET 116A	20 A	1			360 VA	0 VA			1	20 A	Spare	10
11	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	12
			Total Load:	5400 VA		5040 VA		4680 VA					
			Total Amps:	45 A		42 A		39 A					

Branch Panel: XP211

Location: ELECTRICAL CLOSET 112 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle Lab 110A	20 A	1	900 VA	540 VA					1	20 A	Wiremold Dry Lab 110	2
3	Poke-thru, Recept, Lab 110A	20 A	1			720 VA	540 VA			1	20 A	Wiremold Dry Lab 110	4
5	Receptacle Dry Lab 110	20 A	1					540 VA	420 VA	3	20 A	FCU-6 Elec, Closet 112	6
7	Receptacle WATER LAB-1 108-1	20 A	1	540 VA	420 VA					--	--	--	8
9	Receptacle WATER LAB-1 108-1	20 A	1			540 VA	420 VA			--	--	--	10
11	Receptacle WATER LAB-1 108-1	20 A	1					720 VA	360 VA	1	20 A	Receptacle WATER LAB 108	12
13	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	14
15	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	2400 VA		2220 VA		2040 VA					
			Total Amps:	20 A		19 A		17 A					

Branch Panel: XP212

Location: DRY LAB 1B 110 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle Dry Lab 110	20 A	1	720 VA	720 VA					1	20 A	Receptacle Dry Lab 110	2
3	Receptacle Dry Lab 110	20 A	1			720 VA	720 VA			1	20 A	Receptacle Dry Lab 110	4
5	Receptacle Dry Lab 110	20 A	1					720 VA	720 VA	1	20 A	Receptacle CYBERPHYSICS 107	6
7	Receptacle CYBERPHYSICS 107	20 A	1	720 VA	720 VA					1	20 A	Receptacle CYBERPHYSICS 107	8
9	Receptacle CYBERPHYSICS 107	20 A	1			720 VA	720 VA			1	20 A	Receptacle CYBERPHYSICS 107	10
11	Receptacle CYBERPHYSICS 107	20 A	1					720 VA	360 VA	1	20 A	Receptacle DRY LAB 1B 110	12
13	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	14
15	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	2880 VA		2880 VA		2520 VA					
			Total Amps:	24 A		24 A		21 A					

Distribution Panel: DP21

Location: ELECTRICAL CLOSET 112 | **Volts:** 120/208 Wye | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MCB
Enclosure: Type 1 | **Neutral:** Full | **Mains Rating:** 400 A
Breakers: 0 | **Ground Bus:** Yes | **MCB Rating:** 250 A

Notes:

CKT	Circuit Description	Frame Size	Trip Rating	# of Poles	Load	Feeder Size	Remarks
1	RP21	100 A	100 A	3	23 kVA	SEE RISER DIAGRAM ON E501	
2	XP211	100 A	100 A	3	7 kVA		
3	XP212	100 A	100 A	3	8 kVA		
4	XP213	100 A	100 A	3	9 kVA		
5	XP214	100 A	100 A	3	7 kVA		
6	XP215	100 A	100 A	3	8 kVA		
7	Spare	--	100 A	3	0 kVA		100AF
8	Spare	--	100 A	3	0 kVA		100AF
9	Space	--	--	--	0 kVA		--
10	Space	--	--	--	0 kVA		--
11	Space	--	--	--	0 kVA		--
12	Space	--	--	--	0 kVA		--
				Total Conn. Load:	62 kVA		
				Ttl Demand Load:	40 kVA		
				Total Demand Amps:	112 A		

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	6470 VA	65.00%	4206 VA		
Other	2880 VA	100.00%	2880 VA	**Total Conn. Load:**	61730 VA
Power	4140 VA	100.00%	4140 VA	**Total Est. Demand:**	40346 VA
Receptacle	48240 VA	60.36%	29120 VA	**Total Conn.:**	171 A
				Total Est. Demand:	112 A

Notes:

Distribution Panel: EQDP21

Location: ELECTRICAL CLOSET 103 | **Volts:** 120/208 Wye | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MCB
Enclosure: Type 1 | **Neutral:** Full | **Mains Rating:** 225 A
Breakers: 0 | **Ground Bus:** Yes | **MCB Rating:** 150 A

Notes:

CKT	Circuit Description	Frame Size	Trip Rating	# of Poles	Load	Feeder Size	Remarks
1	EQ211	100 A	100 A	3	10 kVA		
2	EQ212	100 A	100 A	3	1 kVA		
3	EQ213	100 A	100 A	3	3 kVA		
4	Spare	--	100 A	3	0 kVA		100AF
5	Spare	--	100 A	3	0 kVA		100AF
6	Space	--	--	--	0 kVA		--
7	Space	--	--	--	0 kVA		--
8	Space	--	--	--	0 kVA		--
9	Space	--	--	--	0 kVA		--
10	Space	--	--	--	0 kVA		--
11	Space	--	--	--	0 kVA		--
12	Space	--	--	--	0 kVA		--
				Total Conn. Load:	14010.0 VA		
				Ttl Demand Load:	9.233 kVA		
				Total Demand Amps:	25.627 A		

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	13650 VA	65.00%	8873 VA		
Receptacle	360 VA	100.00%	360 VA	**Total Conn. Load:**	14010 VA
				Total Est. Demand:	9233 VA
				Total Conn.:	39 A
				Total Est. Demand:	26 A

Notes:

Branch Panel: L41

Location: ELECTRICAL CLOSET 112 | **Volts:** 480/277 Wye | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wire:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Light Rms 101A, 114B, 114C, 116B, 117, V01, 13...	20 A	1	2525...	2401...					1	20 A	Lighting Zone 1	2
3	Lighting Zone 2	20 A	1			2744...	1362...			1	20 A	Lighting Zones 5,7,8,9,10,11,12,13,14,15,17,18,19	4
5	Lighting Rms 106, 107, 108	20 A	1					480 VA	1415...	1	20 A	Lighting Zones 6,16,20,21,22	6
7	Lighting MEETING ROOM 114A	20 A	1	353 VA	304 VA					1	20 A	Lighting - Dwelling Unit	8
9	Other GATHERING/DISPLAY SPACE 121	20 A	1			1474...	1036...			1	20 A	GATHERING/DISPLAY SPACE 121	10
11	Other CYLINDER STORAGE 316A	20 A	1					279 VA	0 VA	1	20 A	Spare	12
13	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	14
15	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	5582 VA		6616 VA		2174 VA					
			Total Amps:	22 A		26 A		8 A					

GENERAL NOTES:

1. SPARE CIRCUIT BREAKERS IN WALL PANELS UPDATED VIA ADDENDUM #1.

1

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ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	2015-03-25	BID ADDENDUM 01

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KEY PLAN:

PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:

ELECTRICAL PANEL SCHEDULES

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

E-602

CONFORMED SET: 05/29/2015

Branch Panel: EQ211

Location: ELECTRICAL CLOSET 103 | **Volts:** 120/208 Wye | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle Elect. Closet 103	20 A	1	180 VA	0 VA					1	20 A	Spare	2
3	FCU_1 (2HP) Data Closet 116A	20 A	3			900 VA	696 VA			1	20 A	FCU-2 Vestibule A V1A	4
5	--	--	--					900 VA	894 VA	1	20 A	FCU-8 Loading Dock Vestibule 116	6
7	--	--	--	900 VA	1392...					1	20 A	FCU-4 Stair A S1A	8
9	FCU-2 Vestibule V1B	20 A	1			696 VA	1440...			1	20 A	Equipment DATA CLOSET 116A	10
11	Equipment DATA CLOSET 116A	20 A	1					1440...	0 VA	1	0 A	Spare	12
13	ATC LOBBY C1A	20 A	1	250 VA	250 VA					1	20 A	ATC LOBBY C1A	14
15	ATC LOBBY C1A	20 A	1			250 VA	250 VA			1	20 A	ATC LOBBY C1A	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
		Total Load:		2972 VA		4232 VA		3234 VA					
		Total Amps:		25 A		36 A		27 A					

Branch Panel: EQ212

Location: DRY LAB 1B 110 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	ATC DRY LAB 1B 110	20 A	1	250 VA	250 VA					1	20 A	ATC DRY LAB 1A-1 114-1	2
3	ATC DRY LAB 1B 110	20 A	1			250 VA	250 VA			1	20 A	ATC DRY LAB 1A-1 114-1	4
5	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	6
7	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	8
9	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	10
11	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	12
13	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	14
15	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
		Total Load:		500 VA		500 VA		0 VA					
		Total Amps:		5 A		5 A		0 A					

Branch Panel: EQ213

Location: DRY LAB 1B 110 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle Electrical Clo. 112	20 A	1	180 VA	1392...					1	20 A	FCU-4 Corridor/Informal Study C1B	2
3	ATC DRY LAB 1B 110	20 A	1			250 VA	250 VA			1	20 A	ATC DRY LAB 1A-1 114-1	4
5	ATC DRY LAB 1B 110	20 A	1					250 VA	250 VA	1	20 A	ATC DRY LAB 1A-1 114-1	6
7	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	8
9	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	10
11	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	12
13	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	14
15	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
		Total Load:		1572 VA		500 VA		500 VA					
		Total Amps:		13 A		4 A		4 A					

Branch Panel: XP213

Location: DRY LAB 1B 110 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Poke-thru Receptacle Dry Lab 110	20 A	1	720 VA	540 VA					1	20 A	Wiremold Dry Lab 110	2
3	Receptacle Dry Lab 110	20 A	1			540 VA	540 VA			1	20 A	Wiremold Dry Lab 110	4
5	Receptacle VIRTUAL REALITY SPACE 106	20 A	1					720 VA	720 VA	1	20 A	Receptacle VIRTUAL REALITY SPACE 106	6
7	Receptacle VIRTUAL REALITY SPACE 106	20 A	1	720 VA	720 VA					1	20 A	Receptacle VIRTUAL REALITY SPACE 106	8
9	Receptacle VIRTUAL REALITY SPACE 106	20 A	1			720 VA	720 VA			1	20 A	Receptacle VIRTUAL REALITY SPACE 106	10
11	FCU-6 Elec. Closet 103	20 A	3					420 VA	720 VA	1	20 A	Receptacle DRY LAB 1B 110	12
13	--	--	--	420 VA	0 VA					1	20 A	Spare	14
15	--	--	--			420 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
		Total Load:		3120 VA		2940 VA		2580 VA					
		Total Amps:		26 A		25 A		22 A					

Branch Panel: XP214

Location: DRY LAB 1A 114 | **Volts:** 120/208 Wye | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle Dry Lab 114	20 A	1	720 VA	540 VA					1	20 A	WIREMOLD Dry Lab 114	2
3	WIREMOLD DRY Lab 114	20 A	1			540 VA	540 VA			1	20 A	WIREMOLD Dry Lab 114	4
5	Receptacle Dry Lab 114	20 A	1					540 VA	720 VA	1	20 A	Receptacle Dry Lab 114	6
7	WIREMOLD Lab 114	20 A	1	540 VA	1080...					1	20 A	Receptacle Rm. 114B	8
9	WIREMOLD Lab 114	20 A	1			540 VA	720 VA			1	20 A	Receptacle Dry Lab 114	10
11	Receptacle DRY LAB 1A 114	20 A	1					720 VA	0 VA	1	20 A	Spare	12
13	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	14
15	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
		Total Load:		2880 VA		2340 VA		1980 VA					
		Total Amps:		24 A		20 A		17 A					

Branch Panel: XP215

Location: DRY LAB 1A 114 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	WIREMOLD Dry Lab 114	20 A	1	540 VA	540 VA					1	20 A	WIREMOLD Dry Lab 114	2
3	WIREMOLD Dry Lab 114	20 A	1			540 VA	720 VA			1	20 A	WIREMOLD Dry Lab 114	4
5	Poke-thru RECEPT. Dry Lab 114	20 A	1					720 VA	540 VA	1	20 A	WIREMOLD Dry Lab 114	6
7	WIREMOLD Dry Lab 114	20 A	1	720 VA	720 VA					1	20 A	WIREMOLD Dry Lab 114	8
9	Receptacle Dry Lab 114	20 A	1			540 VA	720 VA			1	20 A	Poke-thru RECEPT. Dry Lab 114	10
11	WIREMOLD Dry Lab 114	20 A	1					540 VA	720 VA	1	20 A	Receptacle DRY LAB 1A 114	12
13	WIREMOLD Dry Lab 114	20 A	1	540 VA	0 VA					1	20 A	Spare	14
15	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
		Total Load:		3060 VA		2520 VA		2520 VA					
		Total Amps:		26 A		21 A		21 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	8100 VA	100.00%	8100 VA		
				Total Conn. Load:	8100 VA
				Total Est. Demand:	8100 VA
				Total Conn.:	22 A
				Total Est. Demand:	22 A

GENERAL NOTES:

1. SPARE CIRCUIT BREAKERS IN ALL PANELS UPDATED VIA ADDENDUM #1.

1

CONFORMED SET: 05/29/2015

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ISSUE/REVISION:

NO.	DATE	COMMENTS
1	2015-03-23	BID ADDENDUM 01

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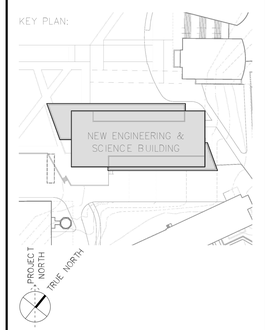
ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK

KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:

ELECTRICAL PANEL SCHEDULES

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

E-603

Branch Panel: XP225

Location: **Volts:** 120/208V **A.I.C.:**
Supply From: **Phases:** 3 **A.S.C.:**
Mounting: Recessed **Wires:** 4 **Mains Type:** MLO
Enclosure: Type 1 **Neutral:** **Mains Rating:** 100 A
Ground Bus: **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	-80C Freezer SHARED EQUIPMENT ROOM 210	30 A	1	1920... 1040...			2	20 A	-80C Freezer SHARED EQUIPMENT ROOM 210	2
3	-80C Freezer SHARED EQUIPMENT ROOM 210	30 A	1	1920... 1040...			--	--	--	4
5	Receptacle Wet Lab 209	20 A	1			360 VA 0 VA	1	20 A	Spare	6
7	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	8
9	Receptacle Wet Lab 209	20 A	1		360 VA 360 VA		1	20 A	Receptacle Wet Lab 209	10
11	Receptacle Wet Lab 209	20 A	1			360 VA 180 VA	1	20 A	Receptacle Shared Equip. rm. 210	12
13	FCU-6 Meeting /Breakout Space 205	20 A	3	186 VA 420 VA			3	20 A	FCU-6 Electrical Closet 208	14
15	--	--	--		186 VA 420 VA		--	--	--	16
17	--	--	--			186 VA 420 VA	--	--	--	18
19	FCU-7 Pantry/Workroom 204	20 A	3	420 VA 0 VA			1	20 A	Spare	20
21	--	--	--		420 VA 0 VA		1	20 A	Spare	22
23	--	--	--			420 VA 0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	26
27	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	28
29	Refrigerator SHARED EQUIPMENT ROOM 210	20 A	1			600 VA 540 VA	1	20 A	Receptacle BSC Tissue Culture 209D	30
31	BSC TISSUE CULTURE 209D	20 A	1	1440... 0 VA			1	20 A	Spare	32
33	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	34
35	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	38
39	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	40
41	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	42
			Total Load:	5426 VA	4706 VA	3066 VA				
			Total Amps:	47 A	41 A	26 A				

Branch Panel: XP226

Location: ELECTRICAL CLOSET 214 **Volts:** 120/208V **A.I.C.:**
Supply From: **Phases:** 3 **A.S.C.:**
Mounting: Surface **Wires:** 4 **Mains Type:** MLO
Enclosure: Type 1 **Neutral:** **Mains Rating:** 100 A
Ground Bus: **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Wiremold Wet Lab 216	20 A	1	720 VA 720 VA			1	20 A	Wiremold Wet Lab 216	2
3	Wiremold Wet Lab 216	20 A	1		720 VA 720 VA		1	20 A	Wiremold Wet Lab 216	4
5	Wiremold Wet Lab 216	20 A	1			720 VA 720 VA	1	20 A	Wiremold Wet Lab 216	6
7	Wiremold Wet Lab 216	20 A	1	720 VA 720 VA			1	20 A	Wiremold Wet Lab 216	8
9	Receptacle Wet Lab 216	20 A	1		720 VA 720 VA		1	20 A	Deck mtd. Quad WET LAB-1 216-1	10
11	Poke-thru, Receptacle Dry Lab 215	20 A	1			720 VA 0 VA	1	20 A	Spare	12
13	Poke-thru, Receptacle Dry Lab 215A, 215B	20 A	1	1440... 360 VA			1	20 A	Receptacle Dry Lab 215, 215B	14
15	Receptacle WORKSTATIONS 215	20 A	1		720 VA 1000...		1	20 A	Fume Hood Fume Hood Alcove 216C	16
17	Polisher WET LAB-1 216-1	20 A	1			360 VA 1000...	1	20 A	Fume Hood Fume Hood Alcove 216C	18
19	Spare	20 A	1	0 VA 420 VA			3	20 A	FCU-7 Corridor/Informal Study C2C	20
21	Spare	20 A	1		0 VA 420 VA		--	--	--	22
23	Spare	20 A	1			0 VA 420 VA	--	--	--	24
25	Receptacle FUME HOOD ALCOVE 216C	20 A	1	360 VA 1000...			1	20 A	Fume Hood Fume Hood Alcove 216C	26
27	-80C FREEZER EQUIPMENT RM 212	30 A	1		180 VA 1000...		1	20 A	Fume Hood Fume Hood Alcove 216C	28
29	Spare	20 A	1			0 VA 600 VA	1	20 A	Refrigerator EQUIPMENT RM 212	30
31	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	32
33	Spare	20 A	1		180 VA 0 VA		1	20 A	Spare	34
35	Spare	0 A	1			0 VA 0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	38
39	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	40
41	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	42
			Total Load:	6460 VA	6380 VA	4540 VA				
			Total Amps:	56 A	56 A	38 A				

Branch Panel: XP227

Location: WET LAB-1 216-1 **Volts:** 120/208V **A.I.C.:**
Supply From: **Phases:** 3 **A.S.C.:**
Mounting: Surface **Wires:** 4 **Mains Type:**
Enclosure: Type 1 **Neutral:** **Mains Rating:** 100 A
Ground Bus: **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Wiremold Wet Lab 216	20 A	1	720 VA 360 VA			1	20 A	Receptacle Wet Lab 216	2
3	Wiremold Wet Lab 216	20 A	1		720 VA 360 VA		1	20 A	Receptacle Wet Lab 216	4
5	Wiremold Wet Lab 216	20 A	1			720 VA 360 VA	1	20 A	Receptacle CYLINDER STORAGE 216K	6
7	Wiremold Wet Lab 216	20 A	1	720 VA 360 VA			1	20 A	Receptacle Wet Lab 216	8
9					360 VA		1	20 A	Receptacle Wet Lab 216	10
11	Receptacle Wet Lab 216	20 A	1			360 VA				12
13	Receptacle CONFOCAL 216E	20 A	1	360 VA 720 VA			1	20 A	Receptacle Confocal 216E	14
15	Receptacle Wet Lab 216	20 A	1		360 VA 1800...		1	20 A	Centrifuge EQUIPMENT RM 212	16
17	FCU-6 Wet Lab 216	20 A	3			288 VA 288 VA	3	20 A	FCU-6 Wet Lab 216	18
19	--	--	--	288 VA 288 VA			--	--	--	20
21	--	--	--		288 VA 288 VA		--	--	--	22
23	Receptacle Wet Lab 216	20 A	1			360 VA 1440...	1	20 A	Special Receptacle BSC Tissue Culture 216B	24
25	Special Receptacle BSC Tissue Culture 216B	20 A	1	1440... 360 VA			1	20 A	Receptacle Wet Lab 216	26
27	Wiremold, Receptacle Tissue Culture 216B	20 A	1		180 VA 800 VA		2	20 A	Confocal System CONFOCAL 216E	28
29	FCU-6 WorkStation 15	20 A	3			288 VA 800 VA	--	--	--	30
31	--	--	--	288 VA 180 VA			1	20 A	Receptacle Tissue Culture 216D	32
33	--	--	--		288 VA 630 VA		1	20 A	Wiremold RAD ROOM 212A	34
35	Wiremold RAD ROOM 212A	20 A	1			360 VA 540 VA	1	20 A	Wiremold RAD ROOM 212A	36
37	Wiremold RAD ROOM 212A	20 A	1	360 VA 720 VA			1	20 A	Wiremold RAD ROOM 212A	38
39	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	40
41	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	42
			Total Load:	7164 VA	6074 VA	5804 VA				
			Total Amps:	60 A	51 A	48 A				

Branch Panel: XP228

Location: WET LAB-1 216-1 **Volts:** 120/208V **A.I.C.:**
Supply From: **Phases:** 3 **A.S.C.:**
Mounting: Surface **Wires:** 4 **Mains Type:**
Enclosure: Type 1 **Neutral:** **Mains Rating:** 100 A
Ground Bus: **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	-80C FREEZER EQUIPMENT RM 211	30 A	1	180 VA 720 VA			1	20 A	Wiremold Wet Lab 216	2
3	Receptacle Wet Lab 216	20 A	1		360 VA 720 VA		1	20 A	Wiremold Wet Lab 216	4
5	Receptacle Wet Lab 216	20 A	1			360 VA 720 VA	1	20 A	Wiremold Wet Lab 216	6
7	Polisher WET LAB-1 216-1	20 A	1	360 VA 720 VA			1	20 A	Wiremold Wet Lab 216	8
9	Wiremold Wet Lab 216	20 A	1		720 VA 720 VA		1	20 A	Wiremold Wet Lab 216	10
11	Wiremold Wet Lab 216	20 A	1			720 VA 720 VA	1	20 A	Wiremold Wet Lab 216	12
13	Equipment TISSUE CULTURE 216F	20 A	1	1800... 1000...			1	20 A	Equipment TISSUE CULTURE 216F	14
15	Centrifuge EQUIPMENT RM 211	20 A	1		1800... 1800...		1	20 A	Centrifuge EQUIPMENT RM 211	16
17	-80C FREEZER EQUIPMENT RM 211	30 A	1			180 VA 600 VA	1	20 A	Refrigerator EQUIPMENT RM 211	18
19	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	20
21	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	22
23	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	26
27	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	28
29	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	32
33	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	34
35	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	38
39	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	40
41	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	42
			Total Load:	4780 VA	6120 VA	3300 VA				
			Total Amps:	42 A	53 A	28 A				

Branch Panel: XP221

Location: Space CC4207 **Volts:** 120/208V **A.I.C.:**
Supply From: **Phases:** 3 **A.S.C.:**
Mounting: Recessed **Wires:** 4 **Mains Type:**
Enclosure: Type 1 **Neutral:** **Mains Rating:** 100 A
Ground Bus: **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Wiremold Lab Support 209	20 A	1	540 VA 540 VA			1	20 A	Wiremold Lab Support 209	2
3	Wiremold Lab Support 209	20 A	1		720 VA 720 VA		1	20 A	Wiremold Lab Support 209	4
5	Wiremold Lab Support 209	20 A	1			540 VA 540 VA	1	20 A	Wiremold Lab Support 209	6
7	Wiremold Lab Support 209	20 A	1	720 VA 720 VA			1	20 A	Wiremold Lab Support 209	8
9	Receptacle Lab Support 209	20 A	1		360 VA 540 VA		1	20 A	Wiremold Lab Support 209	10
11	Power FUME HOOD ALCOVE 209H	20 A	1			1000... 720 VA	1	20 A	Wiremold Lab Support 209	12
13	Receptacle FUME HOOD ALCOVE 209H	20 A	1	360 VA 360 VA			1	20 A	Polisher WET LAB-1 209-1	14
15						0 VA	1	20 A	Spare	16
17	Refrigerator EQUIPMENT RM 211	20 A	1			600 VA 0 VA	1	20 A	Spare	18
19	FCU-6 Wet Lab 209	20 A	3	288 VA 288 VA			3	20 A	FCU-6 Electrical Closet 214	20
21	--	--	--		288 VA 0 VA		--	--	--	22
23	--	--	--			288 VA 288 VA	--	--	--	24
25	Spare	20 A	1	0 VA 1000...			1	20 A	Fume Hood Fume Hood Alcove 209H	26
27	Spare	20 A	1		0 VA 1000...		1	20 A	Fume Hood Fume Hood Alcove 209H	28
29	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	32
33	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	34
35	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	38
39	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	40
41	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	42
			Total Load:	4816 VA	3916 VA	3976 VA				
			Total Amps:	40 A	33 A	33 A				

Branch Panel: XP222

Location: FISH ROOM 209F **Volts:** 120/208V **A.I.C.:**
Supply From: **Phases:** 3 **A.S.C.:**
Mounting: Recessed **Wires:** 4 **Mains Type:** MLO
Enclosure: Type 1 **Neutral:** **Mains Rating:** 100 A
Ground Bus: **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Wiremold Lab Support 209	20 A	1	540 VA 540 VA			1	20 A	Wiremold Lab Support 209	2
3	Wiremold Lab Support 209	20 A	1		720 VA 720 VA		1	20 A	Wiremold Lab Support 209	4
5	Wiremold Lab Support 209	20 A	1			540 VA 540 VA	1	20 A	Wiremold Lab Support 209	6
7	Wiremold Lab Support 209	20 A	1	720 VA 720 VA			1	20 A	Wiremold Lab Support 209	8
9	Receptacle Lab Support 209	20 A	1		360 VA 360 VA		1	20 A	Receptacle Lab Support 209	10
11	Receptacle CYLINDER STORAGE 209I	20 A	1			360 VA 180 VA	1	20 A	Receptacle FISH ROOM 209F	12
13	Polisher WET LAB-1 209-1	20 A	1	360 VA 0 VA			1	20 A	Spare	14
15	Spare	20 A	1		0 VA 180 VA		1	20 A	Equipment Space CC4207	16
17	Spare	20 A	1			0 VA 360 VA	1	20 A	Incubator Tissue Culture 216D	18
19	Spare	20 A	1	0 VA 180 VA			1	20 A	Equipment Space CC4207	20
21	Spare	20 A	1		0 VA 1440...		1	20 A	BSC Tissue Culture 209J	22
23	Spare	20 A	1			0 VA 1440...	1	20 A	BSC Tissue Culture 209J	24
25	Wiremold & Receptacle TISSUE CULTURE 209J	20 A	1	720 VA 1080...			1	20 A	Refrigerator Tissue Culture 209J	26
27	UC Refrigerator, Receptacle Wet Lab 209	20 A	1		1200... 180 VA		1	20 A	Equipment Space CC4207	28
29	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	32
33	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	34
35	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	38
39	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	40
41	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	42
			Total Load:	4860 VA	5160 VA	3420 VA				
			Total Amps:	42 A	45 A	29 A				

Branch Panel: XP223

Location: **Volts:** 120/208V **A.I.C.:**
Supply From: **Phases:** 3 **A.S.C.:**
Mounting: Recessed **Wires:** 4 **Mains Type:** MLO
Enclosure: Type 1 **Neutral:** **Mains Rating:** 100 A
Ground Bus: **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Power WET LAB 209	20 A	1	720 VA 540 VA			1	20 A	Power WET LAB 209	2
3	Power WET LAB 209	20 A	1		540 VA 720 VA		1	20 A	Power WET LAB 209	4
5	Power WET LAB 209	20 A	1			720 VA 540 VA	1	20 A	Power WET LAB 209	6
7	Power WET LAB 209	20 A	1	540 VA 720 VA			1	20 A	Power WET LAB 209	8
9	Receptacle WET LAB 209	20 A	1		360 VA 360 VA		1	20 A	Receptacle WET LAB 209	10
11	Receptacle WET LAB 209	20 A	1			360 VA 360 VA	1	20 A	Power MICROSCOPE RM 209E	12
13	Power MICROSCOPE RM 209E	20 A	1	360 VA 720 VA			1	20 A	Receptacle MICROSCOPE RM 209E	14
15	Power	20 A	1		720 VA 540 VA		1	20 A	Power	16
17	Power	20 A	1			540 VA 288 VA	3	20 A	FCU-6 WET LAB 209	18
19	Receptacle CYLINDER STORAGE 209I	20 A	1	360 VA 288 VA			--	--	--	20
21	Power	20 A	1		360 VA 288 VA		--	--	--	22
23	Polisher WET LAB-1 209-1	20 A	1			180 VA 0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	26
27	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	28
29	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	32
33	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	34
35	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	38
39	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	40
41	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	42
			Total Load:	4248 VA	3888 VA	2988 VA				
			Total Amps:	37 A	34 A	25 A				

Branch Panel: XP224

Location: LAB SUPPORT 209C **Volts:** 120/208V **A.I.C.:**
Supply From: **Phases:** 3 **A.S.C.:**
Mounting: Recessed **Wires:** 4 **Mains Type:** MLO
Enclosure: Type 1 **Neutral:** **Mains Rating:** 100 A
Ground Bus: **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle WetLab 409	20 A	1	540 VA 630 VA			1	20 A	Wiremold Wet Lab 209	2
3		20 A	1		720 VA 540 VA		1	20 A	Wiremold Wet Lab 209	4
5	Wiremold Wet Lab 209	20 A	1			720 VA 540 VA	1	20 A	Wiremold Wet Lab 209	6
7	Wiremold Wet Lab 209	20 A	1	720 VA 630 VA			1	20 A	Wiremold Wet Lab 209	8
9	Wiremold Wet Lab 209	20 A	1		720 VA 360 VA		1	20 A	Receptacle Wet Lab 209	10
11	Receptacle Wet Lab 209	20 A	1			360 VA 1000...	1	20 A	Fume Hood 20C	12
13	Fume Hood 20C	20 A	1	1000... 360 VA			1	20 A	Wiremold Fumehood Alcove 209C	14
15	Fume Hood 209C	20 A	1		1000... 540 VA		1	20 A	Wiremold Fumehood Alcove 209C	16
17	FCU-6 Wet Lab 209	20 A	3			288 VA 420 VA	3	20 A	FCU-7 Corridor/Informal Study C2A	18
19	--	--	--	288 VA 420 VA			--	--	--	20
21	--	--	--		288 VA 420 VA		--	--	--	22
23	Fume Hood 20C 209	20 A	1			1000... 720 VA	1	20 A	Receptacle Space CC4336	24
25	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	26
27	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	28
29	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	32
33	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	34
35	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	38
39	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	40
41	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	42
			Total Load:	4588 VA	4588 VA	5048 VA				
			Total Amps:	38 A	38 A	42 A				

Distribution Panel: DP22

Location: ELECTRICAL CLOSET 214 **Volts:** 120/208 Wye **A.I.C.:** 65000
Supply From: **Phases:** 3 **A.S.C.:**
Mounting: Surface **Wires:** 4 **Mains Type:** MCB
Enclosure: Type 1 **Neutral:** Full **Mains Rating:** 400 A
Breakers: 0 **Ground Bus:** Yes **MCB Rating:** 400 A

Notes:

CKT	Circuit Description	Frame Size	Trip Rating	# of Poles	Load	Feeder Size	Remarks
1	RP22	100 A	100 A	3	18 kVA		
2	XP221	100 A	100 A	3	13 kVA		
3	XP222	100 A	100 A	3	13 kVA		
4	XP223	100 A	100 A	3	11 kVA		
5	XP224	100 A	100 A	3	14 kVA		
6	XP225	100 A	100 A	3	13 kVA		
7	XP226	100 A	100 A	3	17 kVA		
8	XP227	100 A	100 A	3	19 kVA		
9	XP228	100 A	100 A	3	14 kVA		
10	XP229	100 A	100 A	3	9 kVA		
11	XP2210	100 A	100 A	3	20 kVA		
12	Control Pnl SHARED EQUIPMENT ROOM...	100 A	40 A	3	15 kVA		
13	Condensing Unit (1.5HP) COLD ROOM 210A	100 A	25 A	3	1 kVA		
14	Spare	--	100 A	3	0 kVA		
15	Spare	--	100 A	3	0 kVA		
16	Spare	--	100 A	1	0 kVA		
17	Space	--	--	--	0 kVA		--
18	Space	--	--	--	0 kVA		--
				Total Conn. Load:	178 kVA		
				Ttl Demand Load:	110 kVA		
				Total Demand Amps:	304 A		

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	53011 VA	65.00%	34457 VA		
Power	15180 VA	100.00%	15180 VA	**Total Conn. Load:**	177971 VA
Receptacle	109780 VA	54.55%	59890 VA	**Total Est. Demand:**	109527 VA
				Total Conn.:	494 A
				Total Est. Demand:	304 A

Notes:

Branch Panel: UPS22

Location: IDF 220 **Volts:** 120/208V **A.I.C.:**
Supply From: **Phases:** 3 **A.S.C.:**
Mounting: Surface **Wires:** 4 **Mains Type:** MLO
Enclosure: Type 1 **Neutral:** **Mains Rating:** 100 A
Ground Bus: **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	RACK 1 DATA CLOSET 220	30 A	3	2340... 2340...			3	30 A	RACK 1 DATA CLOSET 220	2
3	--	--	--		2340... 2340...		--	--	--	4
5	--	--	--			2340... 2340...	--	--	--	6
7	RACK 2 DATA CLOSET 220	20 A	1	360 VA 360 VA			1	20 A	VOICE DATA CLOSET 220	8
9	VOICE DATA CLOSET 220	20 A	1		360 VA 0 VA		1	0 A	Spare	10
11	Spare	0 A	1			0 VA 0 VA	1	0 A	Spare	12
			Total Load:	5400 VA	5040 VA	4680 VA				
			Total Amps:	45 A	42 A	39 A				

GENERAL NOTES:

1. SPARE CIRCUIT BREAKERS IN ALL PANELS UPDATED VIA ADDENDUM #1.

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ISSUE/REVISION:

NO.	DATE	COMMENTS
1	2015-03-23	BID ADDENDUM 01

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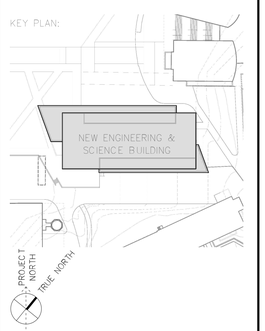
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:

ELECTRICAL PANEL SCHEDULES

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

E-604

CONFORMED SET: 05/29/2015

Branch Panel: EQ223

Location: WET LAB-1 216-1 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	-80C FREEZER EQUIPMENT RM 211	20 A	2	1040... 1920...			1	30 A	-80C FREEZER EQUIPMENT RM 211	2
3	--	--	--		1040... 1800...		1	20 A	Equipment TISSUE CULTURE 216F	4
5	-80C FREEZER EQUIPMENT RM 211	30 A	1			1920... 1000...	1	20 A	-20C FREEZER EQUIPMENT RM 211	6
7	-80C FREEZER EQUIPMENT RM 211	30 A	1	1920... 1000...			1	20 A	-20C FREEZER EQUIPMENT RM 211	8
9	Receptacle CONFOCAL 216E	20 A	1		180 VA 1200...		1	20 A	UC Refrigerator, Receptacle Wet Lab 216	10
11	UC Refrigerator Wet Lab 216	20 A	1			1200... 1200...	1	20 A	UC Refrigerator Wet Lab 216	12
13	UC Refrigerator, Receptacle Wet Lab 216	20 A	1	1200... 180 VA			1	20 A	Receptacle TISSUE CULTURE 216F	14
15	Receptacle TISSUE CULTURE 216F	20 A	1		180 VA					16
17	Equipment ANIMAL PROCEDURE 212A	20 A	1			180 VA 1920...	1	30 A	-80C FREEZER EQUIPMENT RM 212	18
19	FCU-6 Equipment room 212	20 A	3	420 VA 180 VA			1	30 A	-80C FREEZER EQUIPMENT RM 212	20
21	--	--	--		420 VA 1040...		2	20 A	-80C FREEZER EQUIPMENT RM 212	22
23	--	--	--			420 VA 1040...	--	--	--	24
25	ATC WET LAB 209	20 A	1	250 VA 1000...			1	20 A	-20C FREEZER EQUIPMENT RM 212	26
27	ATC WET LAB 209	20 A	1		250 VA 1000...		1	20 A	-20C FREEZER EQUIPMENT RM 212	28
29	ATC WET LAB 216	20 A	1			250 VA 1440...	1	20 A	BSC TISSUE CULTURE 216D	30
31	ATC WET LAB 216	20 A	1	250 VA 540 VA			1	20 A	Receptacle Space CC4207	32
33	Receptacle Confocal 216E	20 A	1		540 VA 0 VA		1	20 A	Spare	34
35	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	38
39	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	40
41	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	42
			Total Load:	9900 VA	7650 VA	10570 VA				
			Total Amps:	85 A	64 A	91 A				

Branch Panel: EQ224

Location: | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Recessed | **Wires:** 4 | **Mains Type:**
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle Electrical Closet 214	20 A	1	180 VA 1040...			2	20 A	-80C FREEZER SHARED EQUIPMENT ROOM 210	2
3	-20C FREEZER SHARED EQUIPMENT ROOM 210	20 A	1		1000... 1040...		--	--	--	4
5	-80C FREEZER SHARED EQUIPMENT ROOM 210	30 A	1			1920... 1920...	1	30 A	-80C FREEZER EQUIPMENT RM 211	6
7	UC Refrigerator WET LAB- 209	20 A	1	1200... 1000...			1	20 A	-20C FREEZER EQUIPMENT RM 211	8
9	-80C FREEZER EQUIPMENT RM 211	30 A	1		1920... 1000...		1	20 A	-20C FREEZER EQUIPMENT RM 211	10
11	Spare	0 A	1			0 VA 1040...	2	20 A	Equipment EQUIPMENT RM 211	12
13	-80C FREEZER EQUIPMENT RM 211	30 A	1	1920... 1040...			--	--	--	14
15	-20C FREEZER EQUIPMENT RM 212	20 A	1		1000... 1040...		2	20 A	Equipment EQUIPMENT RM 212	16
17	-20C FREEZER EQUIPMENT RM 212	20 A	1			1000... 1040...	--	--	--	18
19	Receptacle Lab Support 209F	20 A	1	180 VA 1200...			1	20 A	UC Refrigerator, Receptacle Wet Lab 209	20
21					1200...		1	20 A	UC Refrigerator Wet Lab 209	22
23	UC Refrigerator Wet Lab 209	20 A	1			1200... 1200...	1	20 A	UC Refrigerator, Receptacle Wet Lab 209	24
25	UC Refrigerator Wet Lab 209	20 A	1	1200... 1200...			1	20 A	UC Refrigerator, Receptacle Wet Lab 209	26
27										28
29						1920...	1	30 A	-80C FREEZER SHARED EQUIPMENT ROOM 210	30
31	-20C FREEZER SHARED EQUIPMENT ROOM 210	20 A	1	1000... 1920...			1	30 A	-80C FREEZER SHARED EQUIPMENT ROOM 210	32
33	-80C FREEZER EQUIPMENT RM 212	30 A	1		1920...					34
35	Incubator Tissue Culture 209D	20 A	1			480 VA 1920...	1	30 A	-80C Freezer EQUIPMENT RM 212	36
37	-80C FREEZER EQUIPMENT RM 212	30 A	1	1920...						38
39										40
41										42
			Total Load:	15000 VA	10120 VA	13640 VA				
			Total Amps:	130 A	84 A	118 A				

Branch Panel: EQ221

Location: ELECTRICAL CLOSET 208 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle Electrical Closet 208	20 A	1	180 VA 0 VA			1	0 A	Spare	2
3										4
5										6
7	UC Refrigerator Wet Lab 209	20 A	1	1200... 1440...			1	20 A	Equipment DATA CLOSET 220	8
9	Equipment DATA CLOSET 220	20 A	1		1440... 360 VA		1	20 A	Equipment DATA CLOSET 220	10
11	FCU-1 (2HP) DATA CLOSET 220	20 A	3			900 VA 250 VA	1	20 A	ATC CORRIDOR C2B	12
13	--	--	--	900 VA 250 VA			1	20 A	ATC CORRIDOR C2B	14
15	--	--	--		900 VA 250 VA		1	20 A	ATC ELEV LOBBY C2A	16
17						250 VA	1	20 A	ATC ELEV LOBBY C2A	18
19										20
21										22
23										24
25										26
27										28
29										30
31										32
33										34
35										36
37										38
39										40
41										42
			Total Load:	3970 VA	2950 VA	1400 VA				
			Total Amps:	35 A	27 A	12 A				

Branch Panel: EQ222

Location: WET LAB-1 216-1 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Recessed | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	ATC WET LAB 216	20 A	1	250 VA						2
3	ATC WET LAB 216	20 A	1		250 VA					4
5						1200...	1	20 A	UC Refrigerator, Receptacle Wet Lab 216	6
7	UC Refrigerator, Receptacle Wet Lab 216	20 A	1	1200... 1200...			1	20 A	UC Refrigerator, Receptacle Wet Lab 216	8
9	UC Refrigerator, Receptacle Wet Lab 216	20 A	1		1200... 1200...		1	20 A	UC Refrigerator, Receptacle Wet Lab 216	10
11										12
13				1000...			1	20 A	-20C Freezer SHARED EQUIPMENT ROOM 210	14
15	-20C Freezer SHARED EQUIPMENT ROOM 210	20 A	1		1000...					16
17	-80C Freezer SHARED EQUIPMENT ROOM 210	30 A	1			1920... 288 VA	3	20 A	FCU-6 Equipment Room 211	18
19				288 VA			--	--	--	20
21	FCU-6 Shared Equipment room 210	20 A	3		420 VA 288 VA		--	--	--	22
23	--	--	--			420 VA 250 VA	1	20 A	ATC WET LAB 209	24
25	--	--	--	420 VA 250 VA			1	20 A	ATC WET LAB 209	26
27										28
29										30
31										32
33										34
35										36
37										38
39										40
41										42
			Total Load:	4608 VA	4358 VA	4078 VA				
			Total Amps:	39 A	37 A	34 A				

Branch Panel: XP229

Location: WET LAB-1 216-1 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:**
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Wiremold Wet Lab 216	20 A	1	720 VA 720 VA			1	20 A	Wiremold Wet Lab 216	2
3	Wiremold Wet Lab 216	20 A	1		720 VA 720 VA		1	20 A	Wiremold Wet Lab 216	4
5	Wiremold Wet Lab 216	20 A	1			720 VA 720 VA	1	20 A	Wiremold Wet Lab 216	6
7	Wiremold Wet Lab 216	20 A	1	720 VA 720 VA			1	20 A	Wiremold Wet Lab 216	8
9	Receptacle Wet Lab 216	20 A	1		360 VA 360 VA		1	20 A	Receptacle Wet Lab 216	10
11	Receptacle CYLINDER STORAGE 216K	20 A	1			360 VA				12
13	Wiremold Lab Support 216G	20 A	1	540 VA 360 VA			1	20 A	Receptacle Lab Support 216G	14
15	FCU-6 Wet Lab 216	20 A	3		288 VA 0 VA		1	20 A	Spare	16
17	--	--	--			288 VA 0 VA	1	20 A	Spare	18
19	--	--	--	288 VA 0 VA			1	20 A	Spare	20
21	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	22
23	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	26
27	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	28
29	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	32
33	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	34
35	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	38
39	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	40
41	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	42
			Total Load:	4068 VA	2448 VA	2088 VA				
			Total Amps:	34 A	21 A	17 A				

Branch Panel: XP2210

Location: WET LAB-1 216-1 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Recessed | **Wires:** 4 | **Mains Type:**
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Wiremold Wet Lab 216	20 A	1	630 VA 720 VA			1	20 A	Wiremold Wet Lab 216	2
3	Wiremold Wet Lab 216	20 A	1		540 VA 720 VA		1	20 A	Wiremold Wet Lab 216	4
5	Receptacle Wet Lab 216	20 A	1			180 VA 720 VA	1	20 A	Wiremold Wet Lab 216	6
7	Wiremold Wet Lab 216	20 A	1	720 VA 720 VA			1	20 A	Wiremold Wet Lab 216	8
9	Wiremold Wet Lab 216	20 A	1		720 VA 720 VA		1	20 A	Wiremold Wet Lab 216	10
11	Fume Hood Fume Hood Alcove 216H	20 A	1			1000... 720 VA	1	20 A	Wiremold Wet Lab 216	12
13	Power Space CC4223	20 A	1	1000... 360 VA			1	20 A	Polisher WET LAB-1 216	14
15	Spare	0 A	1		0 VA 360 VA		1	20 A	Wiremold Fume Hood 216H	16
17	Power Space CC4223	20 A	1			1000... 540 VA	1	20 A	Wiremold Fume Hood 216H	18
19	Fume Hood Fume Hood Alcove 216H	20 A	1	1000... 1440...			1	20 A	Special Receptacle BSC Tissue Culture 216J	20
21	Sterilizer Glass Wash 216I	20 A	1		180 VA 1440...		1	20 A	Special Receptacle BSC Tissue Culture 216J	22
23	Glasswasher Glass Wash 216I	20 A	1			180 VA 900 VA	1	20 A	Receptacle, Wiremold Tissue Culture 216J	24
25	Icemaker Glass Wash 216I	20 A	1	180 VA 500 VA			1	20 A	Monifold CYLINDER Elev. Lobby C2A	26
27	Special Receptacle BSC Tissue Culture 216J	20 A	1		1440... 360 VA		1	20 A	Receptacle Space CC4223	28
29	Refrigerator Tissue Culture 216J	20 A	1			1080...				30
31										32
33										34
35										36
37										38
39										40
41										42
			Total Load:	7270 VA	6480 VA	6320 VA				
			Total Amps:	61 A	54 A	53 A				

Branch Panel: RP22

Location: ELECTRICAL CLOSET 214 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:**
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle Corridor/Informal Study C2C	20 A	1	360 VA 720 VA			1	20 A	Receptacle Tech Office/Storage 203	2
3	Receptacle Jan. 217, RR2A, RR2B	20 A	1		540 VA 500 VA		1	20 A	EWC Corridor/Informal Study C2A	4
5	Microwave Pantry/Workroom 204	20 A	1			1000... 360 VA	1	20 A	Receptacle Meeting/Breakout Space 205	6
7	Coffee Maker Pantry/Workroom 204	20 A	1	1000... 540 VA			1	20 A	Receptacle Meeting/Breakout Space 205	8
9	Receptacle Building Storage 221	20 A	1		900 VA 360 VA		1	20 A	Poke-thru Meeting/Breakout Space 205	10
11	Quad CATV wall DATA CLOSET 220	20 A	1			360 VA 360 VA	1	20 A	Receptacle Meeting/Breakout Space 205	12
13	Receptacle TISSUE CULTURE 209B	20 A	1	660 VA 540 VA			1	20 A	Receptacle Dry Lab 206, 207	14
15	Receptacle	20 A	1		360 VA 540 VA		1	20 A	Receptacle Dry Lab 207, 207A, 207B	16
17	Receptacle Corridor C2B	20 A	1			540 VA 360 VA	1	20 A	Poke-thru MEETING/BREAKOUT SPACE 205	18
19	Receptacle BUILDING STORAGE 221	20 A	1	360 VA 360 VA			1	20 A	Poke-thru MEETING/BREAKOUT SPACE 205	20
21	Receptacle DATA CLOSET 220	20 A	1		720 VA 360 VA		1	20 A	Receptacle MEETING/BREAKOUT SPACE 205	22
23	Receptacle MEETING/BREAKOUT SPACE 205	20 A	1			500 VA 360 VA	1	20 A	Receptacle CORRIDOR C2C	24
25	Receptacle CYLINDER STORAGE 209A	20 A	1	900 VA 480 VA			1	20 A	Receptacle Tissue Culture 216B	26
27	Refrigerator Tissue Culture 216B	20 A	1		600 VA 1440...		1	20 A	Other CYLINDER STORAGE 216A	28
29	Other CYLINDER STORAGE 216A	20 A	1			1440... 180 VA	1	20 A	Receptacle MEETING/BREAKOUT SPACE 205	30
31	Spare	20 A	1	0 VA 720 VA			1	20 A	Poke-Thru PANTRY / LUNCHROOM 204	32
33	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	34
35	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	38
39	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	40
41	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	42
			Total Load:	6640 VA	6320 VA	5460 VA				
			Total Amps:	56 A	54 A	46 A				

Branch Panel: L42

Location: ELECTRICAL CLOSET 214 | **Volts:** 277/480V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:**
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Light Rms 206 A,B 207 A,B, 204, 203, 221	20 A	1	402 VA 1269...			1	20 A	Light Rms 209J,H,G, 215 A,B, 216B,C,D	2
3	Light Rms 209C,D,E,F, 216J,H,G,F,E	20 A	1		1243... 1764...		1	20 A	Lighting Zone 1	4
5	Lighting Zone 3	20 A	1			1960... 1960...	1	20 A	Lighting Zone 4	6
7	Lighting Zone 2	20 A	1	1764... 1241...			1	20 A	Lighting Zones 5,6,10,15,16	8
9	Lighting Zones 7,8,9,12,17,18,19,20,21	20 A	1		1130... 1334...		1	20 A	Lighting Zones 11,13,14	10
11	Other	20 A	1			97 VA 1440...	1	20 A	Lighting - Dwelling Unit CYLINDER STORAGE...	12
13	Lighting - Dwelling Unit CYLINDER STORAGE...	20 A	1	341 VA 0 VA			1	20 A	Lighting - Dwelling Unit CONFERENCE ROOM 205	14
15	Other CONFERENCE ROOM 205	20 A	1		536 VA 0 VA		1	20 A	Spare	16
17	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	20
21	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	22
23	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	26
27	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	28
29	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	32
33	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	34
35	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	38
39	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	40
41	Spare	20 A	1			0 VA 0 VA	1	0 A	Spare	42
			Total Load:	5017 VA	6006 VA	5457 VA				
			Total Amps:	18 A	22 A	20 A				

GENERAL NOTES:

1. SPARE CIRCUIT BREAKERS IN ALL PANELS UPDATED VIA ADDENDUM #1.

CONFORMED SET: 05/29/2015

UNIVERSITY OF CONNECTICUT

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ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	2015-03-23	BID ADDENDUM 01

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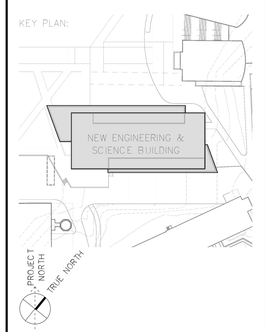
ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.

KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:

ELECTRICAL PANEL SCHEDULES

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

E-605

Branch Panel: XP235

Location: Space CC4206 | **Supply From:** | **Mounting:** Recessed | **Enclosure:** Type 1
Volts: 120/208V | **Phases:** 3 | **Wires:** 4 | **Neutral:** | **Ground Bus:**
A.I.C.: | **A.S.C.:** | **Mains Type:** | **Mains Rating:** 100 A | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Equipment TISSUE CULTURE 309G	20 A	1	180 VA	450 VA					1	20 A	Wiremold Wet Lab 309	2
3	Equipment TISSUE CULTURE 309N	20 A	1			180 VA	360 VA			1	20 A	Wiremold Wet Lab 309	4
5	Receptacle Wet Lab 309	20 A	1					360 VA	0 VA	1	20 A	Spare	6
7	Receptacle Wet Lab 309	20 A	1	720 VA	0 VA					1	20 A	Spare	8
9	Receptacle Wet Lab 309	20 A	1			360 VA	1080...			1	20 A	Receptacle Wet Lab 309	10
11	Receptacle TISSUE CULTURE 309N	20 A	1					360 VA	250 VA	1	20 A	Projector CGI Lab Training 309BA	12
13	Receptacle CGI Training	20 A	1	360 VA	1380...					1	20 A	Undercounter Refrigerator Wet Lab 309	14
15	MP CGI Lab Training 309BA	20 A	1			250 VA	0 VA			1	0 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	0 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	3090 VA		2230 VA		970 VA					
			Total Amps:	27 A		20 A		8 A					

Branch Panel: XP231

Location: | **Supply From:** | **Mounting:** Recessed | **Enclosure:** Type 1
Volts: 120/208V | **Phases:** 3 | **Wires:** 4 | **Neutral:** | **Ground Bus:**
A.I.C.: | **A.S.C.:** | **Mains Type:** | **Mains Rating:** 100 A | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Wiremold Cold Room C3D	20 A	1	360 VA	630 VA					1	20 A	Wiremold Wet Lab 309	2
3	Wiremold LAB SUPPORT 316C	20 A	1			360 VA	540 VA			1	20 A	Wiremold Wet Lab 309	4
5	Wiremold LAB SUPPORT 316C	20 A	1					540 VA	540 VA	1	20 A	Wiremold Wet Lab 309	6
7	Spare	20 A	1	0 VA	720 VA					1	20 A	Wiremold Wet Lab 309	8
9	Receptacle Wet Lab 309	20 A	1			360 VA	360 VA			1	20 A	Receptacle Wet Lab 309	10
11	Receptacle Wet Lab 309	20 A	1					360 VA	0 VA	1	20 A	Spare	12
13	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	14
15	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	FCU-6 Electrical Clo. 314	15 A	3			420 VA	288 VA			3	20 A	FCU-5 Wet Lab 309	22
23	--	--	--					420 VA	288 VA	--	--	--	24
25	--	--	--	420 VA	288 VA					--	--	--	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	2418 VA		2328 VA		2148 VA					
			Total Amps:	20 A		20 A		18 A					

Distribution Panel: DP23

Location: ELECTRICAL CLOSET 314 | **Supply From:** | **Mounting:** Surface | **Enclosure:** Type 1 | **Breakers:** 0
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **Neutral:** Full | **Ground Bus:** Yes
A.I.C.: | **A.S.C.:** | **Mains Type:** MLO | **Mains Rating:** 600 A | **MCB Rating:** 500 A

Notes:

CKT	Circuit Description	Frame Size	Trip Rating	# of Poles	Load	Feeder Size	Remarks
1	RP23	100 A	100 A	3	14 kVA		
2	XP231	100 A	100 A	3	7 kVA		
3	XP232	100 A	100 A	3	15 kVA		
4	XP233	100 A	100 A	3	20 kVA		
5	XP234	100 A	100 A	3	24 kVA		
6	XP235	100 A	100 A	3	6 kVA		
7	XP236	100 A	100 A	3	26 kVA		
8	XP237	100 A	100 A	3	11 kVA		
9	XP238	100 A	100 A	3	8 kVA		
10	XP239	100 A	100 A	3	5 kVA		
11	XP2310	100 A	100 A	3	16 kVA		
12	Control PnL COLD ROOM 312A	100 A	40 A	3	15 kVA		
13	Spare	--	100 A	1	0 kVA		
14	Spare	--	100 A	3	0 kVA		
15	Spare	--	100 A	3	0 kVA		
16	Spare	--	100 A	1	0 kVA		
17	Spare	--	100 A	1	0 kVA		
18	Space	--	--	--	0 kVA		--
19	Space	--	--	--	0 kVA		--
20	Space	--	--	--	0 kVA		--
				Total Conn. Load:	168 kVA		
				Ttl Demand Load:	102 kVA		
				Total Demand Amps:	283 A		

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	38244 VA	65.00%	24859 VA		
Power	15000 VA	100.00%	15000 VA	Total Conn. Load:	167544 VA
Receptacle	114300 VA	54.37%	62150 VA	Total Est. Demand:	102009 VA
				Total Conn.:	465 A
				Total Est. Demand:	283 A

Notes:

Branch Panel: XP236

Location: CORRIDOR C3C | **Supply From:** | **Mounting:** Recessed | **Enclosure:** Type 1
Volts: 120/208V | **Phases:** 3 | **Wires:** 4 | **Neutral:** | **Ground Bus:**
A.I.C.: | **A.S.C.:** | **Mains Type:** | **Mains Rating:** 100 A | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Recept./Poke-thru Dry Lab 315	20 A	1	720 VA	540 VA					1	20 A	Wiremold Wet Lab 316	2
3	Recept./Poke-thru Dry Lab 315A	20 A	1			720 VA	720 VA			1	20 A	Wiremold Wet Lab 316	4
5	Receptacle Dry Lab 315, 315B	20 A	1					180 VA	360 VA	1	20 A	Receptacle Wet Lab 316	6
7	Wiremold Wet Lab 316	20 A	1	720 VA	720 VA					1	20 A	Wiremold Wet Lab 316	8
9	Wiremold Wet Lab 316	20 A	1			720 VA	720 VA			1	20 A	Wiremold Wet Lab 316	10
11	Receptacle Wet Lab 316	20 A	1					360 VA	360 VA	1	20 A	Receptacle WET LAB-1 316-1	12
13	Polisher WET LAB-1 316-1	20 A	1	360 VA	720 VA					1	20 A	Deck mtd. Quad WET LAB-1 316-1	14
15	Centrifuge EQUIPMENT ROOM 312	20 A	1			720 VA	360 VA			1	20 A		16
17	FCU-6 Dry Lab/Work Rm. 315A	20 A	3					420 VA	288 VA	3	20 A	FCU-6 Wet Lab 316	18
19	--	--	--	420 VA	288 VA					--	--	--	20
21	--	--	--			420 VA	288 VA			--	--	--	22
23	-80 C Freezer EQUIPMENT ROOM 312	30 A	1					1920...	420 VA	3	20 A	FCU-7 Corr./Informal Study	24
25	Receptacle BSC Tissue Culture 316B	20 A	1	1440...	420 VA					--	--	--	26
27	Receptacle WORKSTATIONS 325	20 A	1			360 VA	420 VA			--	--	--	28
29	Receptacle WET LAB-1 316-1	20 A	1					360 VA	1440...	1	20 A	Receptacle BSC Tissue Culture 316B	30
31	-80 C Freezer EQUIPMENT ROOM 312	30 A	1	180 VA	180 VA					1	20 A	Wiremold & Recept. Tissue Culture 316B	32
33	Receptacle WET LAB-1 316-1	20 A	1			360 VA	600 VA			1	20 A	Refrigerator EQUIPMENT ROOM 312	34
35	-20 C Freezer EQUIPMENT ROOM 312	20 A	1					1000...	1000...	1	20 A	-20 C Freezer EQUIPMENT ROOM 312	36
37	-80 C Freezer EQUIPMENT ROOM 312	30 A	1	1920...	1000...					1	20 A	Power FUME HOOD ALCOVE 309H	38
39	Power FUME HOOD ALCOVE 309H	20 A	1			1000...	1000...			1	20 A	Power FUME HOOD ALCOVE 309H	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	9628 VA		8408 VA		8108 VA					
			Total Amps:	81 A		70 A		68 A					

Branch Panel: XP232

Location: | **Supply From:** | **Mounting:** Recessed | **Enclosure:** Type 1
Volts: 120/208V | **Phases:** 3 | **Wires:** 4 | **Neutral:** | **Ground Bus:**
A.I.C.: | **A.S.C.:** | **Mains Type:** | **Mains Rating:** 100 A | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Wiremold Wet Lab 309	20 A	1	720 VA	630 VA					1	20 A	Wiremold Wet Lab 309	2
3	Wiremold Wet Lab 309	20 A	1			720 VA	540 VA			1	20 A	Wiremold Wet Lab 309	4
5	Wiremold Wet Lab 309	20 A	1					720 VA	630 VA	1	20 A	Wiremold Wet Lab 309	6
7	Wiremold Wet Lab 309	20 A	1	720 VA	540 VA					1	20 A	Wiremold Wet Lab 309	8
9	Wiremold Wet Lab 309	20 A	1			720 VA	540 VA			1	20 A	Receptacle Wet Lab 309	10
11	Wiremold Wet Lab 309	20 A	1					720 VA	180 VA	1	20 A	Receptacle TISSUE CULTURE 309G	12
13	Receptacle WET LAB-1 309	20 A	1	960 VA	180 VA					1	20 A	Receptacle Wet Lab 309J	14
15	Equipment TISSUE CULTURE 309G	20 A	1			180 VA	1440...			1	20 A	Receptacle BSC Tissue Culture 309J	16
17	Receptacle TISSUE CULTURE 309G	20 A	1					180 VA	720 VA	1	20 A	Wiremold Wet Lab 309	18
19	Receptacle BSC Tissue Culture 309J	20 A	1	1440...	720 VA					1	20 A	Wiremold Wet Lab 309	20
21	Receptacle WET LAB-1 309-1	20 A	1			360 VA	500 VA			1	20 A	Fume Hood CGI Sample Processing 309D	22
23	Spare	20 A	1					0 VA	540 VA	1	20 A	Wiremold Wet Lab 309	24
25	Spare	20 A	1	0 VA	720 VA					1	20 A	Wiremold Wet Lab 309	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	6630 VA		5000 VA		3690 VA					
			Total Amps:	57 A		43 A		31 A					

Distribution Panel: EQDP23

Location: ELECTRICAL CLOSET 308 | **Supply From:** | **Mounting:** Surface | **Enclosure:** Type 1 | **Breakers:** 0
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **Neutral:** | **Ground Bus:**
A.I.C.: | **A.S.C.:** | **Mains Type:** MCB | **Mains Rating:** 400 A | **MCB Rating:** 250 A

Notes:

CKT	Circuit Description	Frame Size	Trip Rating	# of Poles	Load	Feeder Size	Remarks
1	EQ231	100 A	100 A	3	19 kVA		
2	EQ232	100 A	100 A	3	8 kVA		
3	EQ233	100 A	100 A	3	28 kVA		
4	EQ234	100 A	100 A	3	30 kVA		
5	Spare	--	100 A	1	0 kVA		100 AF
6	Spare	--	100 A	1	0 kVA		100 AF
7	Spare	--	60 A	1	0 kVA		
8	Spare	--	60 A	1	0 kVA		
9	Space	--	--	--	0 kVA		--
10	Space	--	--	--	0 kVA		--
11	Space	--	--	--	0 kVA		--
12	Space	--	--	--	0 kVA		--
13	Space	--	--	--	0 kVA		--
14	Space	--	--	--	0 kVA		--
15	Space	--	--	--	0 kVA		--
16	Space	--	--	--	0 kVA		--
17	Space	--	--	--	0 kVA		--
18	Space	--	--	--	0 kVA		--
				Total Conn. Load:	85 kVA		
				Ttl Demand Load:	57 kVA		
				Total Demand Amps:	157 A		

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	61404 VA	65.00%	39913 VA		
Receptacle	23470 VA	71.30%	16735 VA	Total Conn. Load:	84874 VA
				Total Est. Demand:	56648 VA
				Total Conn.:	236 A
				Total Est. Demand:	157 A

Notes:

Branch Panel: XP237

Location: TISSUE CULTURE 316D | **Supply From:** | **Mounting:** Recessed | **Enclosure:** Type 1
Volts: 120/208V | **Phases:** 3 | **Wires:** 4 | **Neutral:** | **Ground Bus:**
A.I.C.: | **A.S.C.:** | **Mains Type:** | **Mains Rating:** 100 A | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle Wet Lab 316	20 A	1	360 VA	720 VA					1	20 A	Wiremold Wet Lab 316	2
3	Wiremold Wet Lab 316	20 A	1			630 VA	720 VA			1	20 A	Wiremold Wet Lab 316	4
5	Wiremold Wet Lab 316	20 A	1					540 VA	360 VA	1	20 A	Receptacle Wet Lab 316	6
7	Wiremold Wet Lab 316	20 A	1	720 VA	540 VA					1	20 A	Wiremold Wet Lab 316	8
9	Wiremold Wet Lab 316	20 A	1			720 VA	720 VA			1	20 A	Wiremold Wet Lab 316	10
11	Receptacle Confocal 316E	20 A	1					180 VA	360 VA	1	20 A	Receptacle Wet Lab 316	12
13	Receptacle Confocal 316E	20 A	1	360 VA	540 VA					1	20 A	Wiremold LAB SUPPORT 316C	14
15	Polisher WET LAB-1 316-1	20 A	1			360 VA	540 VA			1	20 A	Wiremold LAB SUPPORT 316C	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	288 VA					3	20 A	FCU-6 Wet Lab 316	20
21	Spare	20 A	1			0 VA	288 VA			--	--	--	22
23	Spare	20 A	1					0 VA	288 VA	--	--	--	24
25	Spare	20 A	1	0 VA	360 VA					1	20 A	Receptacle Wet Lab 316	26
27	Confocal System CONFOCAL 316E	20 A	2			800 VA	0 VA			1	20 A	Spare	28
29	--	--	--					800 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	3888 VA		4778 VA		2528 VA					
			Total Amps:	34 A		42 A		21 A					

Branch Panel: XP233

Location: CGI AFFIMETRYX 309E | **Supply From:** | **Mounting:** Recessed | **Enclosure:** Type 1
Volts: 120/208V | **Phases:** 3 | **Wires:** 4 | **Neutral:** | **Ground Bus:**
A.I.C.: | **A.S.C.:** | **Mains Type:** | **Mains Rating:** 100 A | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	-80 C Freezer EQUIPMENT ROOM 311	30 A	1	180 VA	1000...					1	20 A	-20 C Freezer Equipment Rm. 311	2
3	Power MICROSCOPE 316E	20 A	1			540 VA	360 VA			1	20 A	Power MICROSCOPE 316E	4
5	Shearing System CGI Sample Processing 309BD	20 A	1					600 VA	1200...	1	20 A	Polisher Receptacle WET LAB-1 309-1	6
7	Receptacle Wet Lab 309	20 A	1	180 VA	720 VA					1	20 A	Receptacle WET LAB-1 309-1	8
9	Receptacle Wet Lab 309	20 A	1			180 VA	360 VA			1	20 A	Receptacle Wet Lab 309	10
11	Wiremold CGI AFFIMETRYX 309E	20 A	1					540 VA	540 VA	1	20 A	Wiremold Lab Support 309E	12
13	Thermocycler CGI SAMPLE PROCESSING 309BD	20 A	1	180 VA	540 VA					1	20 A	Wiremold Lab Support 309E	14
15	Wiremold Lab Support 309E	20 A	1			360 VA	540 VA			1	20 A	Wiremold Lab Support 309E	16
17	Wiremold Lab Support Rm. 316F	20 A	1					720 VA	288 VA	3	20 A	FCU-6 Wet Lab 309	18
19	Wiremold Lab Support Rm. 316F	20 A	1	720 VA	288 VA					--	--	--	20
21	Equipment EQUIPMENT ROOM 311	20 A	1			1800...	288 VA			--	--	--	22
23	Power MICROSCOPE 316E	20 A	1					720 VA	540 VA	1	20 A	Power MICROSCOPE 316E	24
25	Receptacle EQUIPMENT ROOM 311	20 A	1	600 VA	540 VA					1	20 A	Wiremold CGI Single Cell 309EA	26
27	Refrigerators CGI SAMPLE PROCESSING 309BD	20 A	1			1200...	540 VA			1	20 A	Wiremold CGI Single Cell 309EA	28
29	Electrophoresis CGI SAMPLE PROCESSING...	20 A	1					1200...	540 VA	1	20 A	Wiremold CGI Single Cell 309EA	30
31	PCR System CGI SAMPLE PROCESSING 309BD	20 A	1	1200...	1200...					1	20 A	Receptacle CGI SAMPLE PROCESSING 309BD	32
33													34
35	Spare	0 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	7348 VA		6168 VA		6888 VA					
			Total Amps:	62 A		51 A		58 A					

Branch Panel: UPS23

Location: IDF 320 | **Supply From:** | **Mounting:** Surface | **Enclosure:** Type 1
Volts: 120/208V | **Phases:** 3 | **Wires:** 4 | **Neutral:** | **Ground Bus:**
A.I.C.: | **A.S.C.:** | **Mains Type:** | **Mains Rating:** 100 A | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RACK 1 DATA CLOSET 320	30 A	3	2340...	2340...					3	30 A	RACK 1 DATA CLOSET 320	2
3	--	--	--			2340...	2340...			--	--	--	4
5	--	--	--					2340...	2340...	--	--	--	6
7	RACK 2 DATA CLOSET 320	20 A	1	360 VA	360 VA					1	20 A	VOICE DATA CLOSET 320	8
9	VOICE DATA CLOSET 320	20 A	1			360 VA	0 VA			1	20 A	Spare	10
11	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	12
			Total Load:	5400 VA		5040 VA		4680 VA					
			Total Amps:	45 A		42 A		39 A					

Branch Panel: XP238

Location: Space CC4131 | **Supply From:** | **Mounting:** Recessed | **Enclosure:** Type 1
Volts: 120/208V | **Phases:** 3 | **Wires:** 4 | **Neutral:** | **Ground Bus:**
A.I.C.: | **A.S.C.:** | **Mains Type:** | **Mains Rating:** 100 A | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Spare	20 A	1	0 VA	540 VA					1	20 A	Wiremold Wet Lab 316	2
3	Wiremold Wet Lab 316	20 A	1			630 VA	630 VA			1	20 A	Wiremold Wet Lab 316	4
5	Wiremold Wet Lab 316	20 A	1					540 VA	360 VA	1	20 A	Receptacle Wet Lab 316	6
7	Wiremold Wet Lab 316	20 A	1	720 VA	360 VA					1	20 A	Receptacle Wet Lab 316	8
9	Wiremold Wet Lab 316	20 A	1			720 VA	360 VA			1	20 A	Receptacle Wet Lab 316	10
11	Wiremold Wet Lab 316	20 A	1					720 VA	630 VA	1	20 A	Wiremold Wet Lab 316	12
13	Wiremold Wet Lab 316	20 A	1	720 VA	540 VA					1	20 A	Wiremold Wet Lab 316	14
15	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	360 VA	1	20 A	Wiremold Lab Support Rm. 316F	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	2880 VA		2340 VA		2610 VA					
			Total Amps:	24 A		20 A		22 A					

Branch Panel: XP234

Location: CGI TISSUE CULTURE 309C | **Supply From:** | **Mounting:** Recessed | **Enclosure:** Type 1
Volts: 120/208V | **Phases:** 3 | **Wires:** 4 | **Neutral:** | **Ground Bus:**
A.I.C.: | **A.S.C.:** | **Mains Type:** | **Mains Rating:** 100 A | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle Wet Lab 309	20 A	1	900 VA	180 VA					1	20 A	Equipment PCR-1 309DA-1	2
3	Equipment PCR-1 309DA-1	20 A	1			600 VA	720 VA			1	20 A	Wiremold Wet Lab 309	4
5	Wiremold Wet Lab 309	20 A	1					720 VA	600 VA	1	20 A	Equipment CGI TISSUE CULTURE 309C	6
7	Equipment CGI TISSUE CULTURE 309C	20 A	1	1440...	360 VA					1	20 A	Wiremold Wet Lab 309	8
9	Wiremold Wet Lab 309	20 A	1			360 VA	1250...			1	20 A	Sequencer CGI SEQUENCING-1 309D-1	10
11	Wiremold PCR 309DA	20 A	1					540 VA	1800...	1	20 A	Sequencer CGI SEQUENCING-1 309D-1	12
13	Sequencer CGI SEQUENCING-1 309D-1	20 A	1	1200...	600 VA					1	20 A	PCR System CGI SEQUENCING-1 309D-1	14
15	FCU-5 Wet Lab 309	20 A	3			288 VA	420 VA			3	20 A	FCU-6 Electrical Closet 308	16
17	--	--	--					288 VA	420 VA	--	--	--	18
19	--	--	--	288 VA	420 VA					--	--	--	20
21	Equipment CGI COMPUTATIONAL TRAINING-1...	20 A	3			420 VA	180 VA			1	20 A	Wiremold Fume Hood Alcove 309C	22
23	--	--	--					420 VA	360 VA	1	20 A	Wiremold Fume Hood Alcove 309C	24
25	--	--	--	420 VA	600 VA					1	20 A	Refrigerator PCR-1 309DA-1	26
27	Sample Disrupter PCR-1 309DA-1	20 A	1			600 VA	600 VA			1	20 A	4°C Refrigerator CGI SEQUENCING-1 309D-1	28
29	Sample Prep CGI SEQUENCING-1 309D-1	20 A	1					1680...	600 VA	1	20 A	Refrigerator Tissue Culture 309B	30
31	Receptacle Tissue Culture 309B	20 A	1	360 VA	1680...					1	20 A	Sequencer CGI SEQUENCING-1 309D-1	32
33	Refrigerator CGI SEQUENCING-1 309D-1	20 A	1			1200...	1250...			1	20 A	Equipment CGI SEQUENCING-1 309D-1	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	8448 VA		7888 VA		7428 VA					
			Total Amps:	71 A		66 A		62 A					

△1

GENERAL NOTES:

1. SPARE CIRCUIT BREAKERS IN ALL PANELS UPDATED VIA ADDENDUM #1.

CONFORMED SET: 05/29/2015

UNIVERSITY OF CONNECTICUT

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ISSUE/REVISION:

NO.	DATE	COMMENTS
1	2015-03-23	BID ADDENDUM 01

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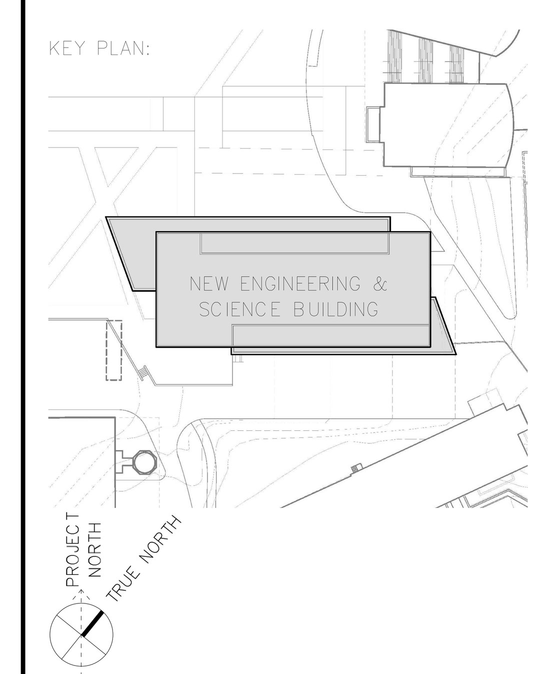
KEY PLAN:



PROJECT:
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:
ELECTRICAL PANEL SCHEDULES

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

E-606

Branch Panel: EQ233

Location: MICROSCOPE 316E
Supply From:
Mounting: Recessed
Enclosure: Type 1
Volts: 120/208V
Phases: 3
Wires: 4
Neutral:
Ground Bus:
A.I.C.:
A.S.C.:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	-20 C Freezer EQUIPMENT ROOM 312	20 A	1	1000... 180 VA			1	20 A	Equipment TISSUE CULTURE 316D	2
3	-20 C Freezer EQUIPMENT ROOM 312	20 A	1		1320... 180 VA		1	20 A	Receptacle TISSUE CULTURE 316D	4
5	-80 C Freezer EQUIPMENT ROOM 312	30 A	1			1080... 1920...	1	30 A	-80 C Freezer EQUIPMENT ROOM 312	6
7	Receptacle Lab Support 309G	20 A	1	360 VA 1920...			1	30 A	-80 C Freezer EQUIPMENT ROOM 312	8
9	-80 C Freezer EQUIPMENT ROOM 312	20 A	1		1920... 180 VA		1	20 A	Receptacle TISSUE CULTURE 309G	10
11	-80 C Freezer EQUIPMENT ROOM 312	30 A	1			1920... 1920...	1	30 A	-80 C Freezer EQUIPMENT ROOM 311	12
13	Equipment TISSUE CULTURE 309N	20 A	1	180 VA 180 VA			1	20 A	Receptacle TISSUE CULTURE 316G	14
15					780 VA		1	20 A	Refrigerator, Receptacle Wet Lab 316	16
17	Spare	20 A	1			0 VA 1200...	1	20 A	Refrigerator Wet Lab 316	18
19	Refrigerator, Receptacle Wet Lab 316	20 A	1	1200... 780 VA			1	20 A	Refrigerator, Receptacle Wet Lab 316	20
21	Incubator Tissue Culture 316D	20 A	1		480 VA 0 VA		1	20 A	Spare	22
23	-80 C Freezer EQUIPMENT ROOM 312	20 A	2			1040... 1200...	1	20 A	Refrigerator Wet Lab 316	24
25	--	--	--	1040... 480 VA			1	20 A	Incubator Tissue Culture 316D	26
27	FCU-6 Equipment rm. 311	20 A	3		420 VA 480 VA		1	20 A	Incubator Tissue Culture 316D	28
29	--	--	--			420 VA 250 VA	1	20 A	ATC Wet Lab 316	30
31	--	--	--	420 VA 250 VA			1	20 A	ATC Wet Lab 316	32
33	FCU-6 Equipment Room 312	15 A	3		420 VA 1040...		2	20 A	-80 C Freezer EQUIPMENT ROOM 312	34
35	--	--	--			420 VA 1040...	--	--	--	36
37	--	--	--	420 VA 0 VA			1	20 A	Spare	38
39	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	40
41	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	42
				Total Load: 8410 VA	7220 VA	12410 VA				
				Total Amps: 72 A	60 A	105 A				

Branch Panel: EQ234

Location: CGI SEQUENCING-1 309D-1
Supply From:
Mounting: Recessed
Enclosure: Type 1
Volts: 120/208V
Phases: 3
Wires: 4
Neutral:
Ground Bus:
A.I.C.:
A.S.C.:
Mains Type:
Mains Rating: 100 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	-80 C Freezer Equipment rm. 311	20 A	2	1040... 1040...			2	20 A	-80 C Freezer Equipment rm. 311	2
3	--	--	--		1040... 1040...		--	--	--	4
5	Receptacle Elec. Clo. 314	20 A	1			180 VA 180 VA	1	20 A	Receptacle CGI SEQUENCING-1 309D-1	6
7	-80 C Freezer EQUIPMENT ROOM 311	30 A	1	1920... 720 VA			1	20 A	Receptacle CGI SEQUENCING-1 309D-1	8
9	-80 C Freezer EQUIPMENT ROOM 311	30 A	1		1920... 1000...		1	30 A	-20 C Freezer CGI SEQUENCING-1 309D-1	10
11	-80 C Freezer EQUIPMENT ROOM 311	30 A	1			1920... 1920...	1	30 A	-80 C Freezer EQUIPMENT ROOM 311	12
13	-80 C Freezer EQUIPMENT ROOM 311	30 A	1	1920... 1920...			1	30 A	-80 C Freezer EQUIPMENT ROOM 311	14
15					1000...		1	20 A	-20 C Freezer Equipment rm. 311	16
17						1000...	1	20 A	-20 C Freezer EQUIPMENT ROOM 311	18
19	Receptacle LAB SUPPORT 316F	20 A	1	360 VA 250 VA			1	20 A	ATC WET LAB 309	20
21	UC Refrigerator, Receptacle Wet Lab 309	20 A	1		1200... 250 VA		1	20 A	ATC WET LAB 309	22
23	UC Refrigerator Wet Lab 309	20 A	1			1200...				24
25	Spare	0 A	1	0 VA 360 VA			1	20 A	UC Refrigerator, Receptacle Wet Lab 309	26
27	-20 C Freezer Equipment Rm. 311	20 A	1		1000... 1392...		1	20 A	FCU-4 Stair B S3B	28
29	-80 C Freezer Shared Space 309B	20 A	1			1440... 0 VA	1	0 A	Spare	30
31	Spare	0 A	1	0 VA 0 VA			1	0 A	Spare	32
33	Wiremold CGI SAMPLE PROCESSING 309BD	20 A	1			720 VA 0 VA	1	0 A	Spare	36
35	Wiremold CGI SAMPLE PROCESSING 309BD	20 A	1				1	20 A	-20 C Freezer SharedSpace 309B	34
37	Spare	0 A	1	0 VA 0 VA			1	0 A	Spare	38
39	Spare	0 A	1		0 VA 0 VA		1	0 A	Spare	40
41	Spare	0 A	1			0 VA 0 VA	1	0 A	Spare	42
				Total Load: 9530 VA	12092 VA	8560 VA				
				Total Amps: 81 A	102 A	71 A				

Branch Panel: LS43

Location: ELECTRICAL CLOSET 308
Supply From:
Mounting: Surface
Enclosure: Type 1
Volts: 480/277 Wye
Phases: 3
Wires: 4
Neutral:
Ground Bus:
A.I.C.:
A.S.C.:
Mains Type:
Mains Rating: 100 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	2nd Floor Exit Lighting	20 A	1	110 VA 160 VA			1	20 A	3rd Floor Exit Lighting	2
3	2nd Floor Em Lighting	20 A	1		476 VA 869 VA		1	20 A	3rd Floor EM Lighting	4
5	Lighting ELECTRICAL CLOSET 214	20 A	1			927 VA 507 VA	1	20 A	Lighting - Dwelling Unit CORRIDOR C2B	6
7	Lighting - Dwelling Unit WET LAB 209	20 A	1	145 VA 83 VA			1	20 A	Lighting - Dwelling Unit	8
9	Lighting - Dwelling Unit Space CC4250	20 A	1		241 VA 348 VA		1	20 A	Lighting - Dwelling Unit WET LAB 309	10
11						203 VA	1	20 A	Lighting - Dwelling Unit WET LAB 316	12
13										14
15										16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
31										32
33										34
35										36
37				1250...			3	60 A	30 kVA	38
39					1250...		--	--	--	40
41						0 VA	--	--	--	42
				Total Load: 1748 VA	3184 VA	1637 VA				
				Total Amps: 6 A	12 A	6 A				

Branch Panel: RP23

Location: ELECTRICAL CLOSET 314
Supply From:
Mounting: Recessed
Enclosure: Type 1
Volts: 120/208V
Phases: 3
Wires: 4
Neutral:
Ground Bus:
A.I.C.:
A.S.C.:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle Corr./Informal Study C3C	20 A	1	360 VA 360 VA			1	20 A	Quad CATV wall DATA CLOSET 320	2
3	Receptacle Corr./Informal Study C3A	20 A	1		900 VA 540 VA		1	20 A	Receptacle RR3A, RR3B, Jan 317	4
5	Poke-Thru ELEV LOBBY-1 C3A-1	20 A	1			720 VA 500 VA	1	20 A	EWC Space CC4250	6
7	Spare	0 A	1	0 VA 0 VA			1	20 A	Spare	8
9	Receptacle Corr./Informal Study C3C	20 A	1		360 VA 720 VA		1	20 A	Poke-Thru WORKSTATIONS-1 325-1	10
11						540 VA	1	20 A	Receptacle Meeting 307B, Dry Lab 307	12
13	Receptacle Workroom 306B, 307A	20 A	1	1440... 540 VA			1	20 A	Receptacle Meeting 306A, Dry Lab 306	14
15	Receptacle Coor. C3B	20 A	1		720 VA 720 VA		1	20 A	Receptacle Tech Office/Storage 303	16
17	Receptacle Pantry Working 304	20 A	1			540 VA 360 VA	1	20 A	Receptacle MEETING/BREAKOUT SPACE 305	18
19	Receptacle Meeting Breakout Space 305	20 A	1	1080... 720 VA			1	20 A	Receptacle DATA CLOSET 320	20
21										22
23	Receptacle MEETING BREAKOUT SPACE 305	20 A	1			720 VA 720 VA	1	20 A	Other WORKSTATIONS-1 325-1	24
25	Receptacle Tissue Culture 316B	20 A	1	480 VA 360 VA			1	20 A	Receptacle CGI SERVER-1 322-1	26
27	Refrigerator Tissue Culture 316B	20 A	1		600 VA 0 VA		1	20 A	Spare	28
29	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	32
33	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	34
35	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	38
39	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	40
41	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	42
				Total Load: 5340 VA	4560 VA	4100 VA				
				Total Amps: 45 A	39 A	34 A				

Branch Panel: EQ231

Location: ELECTRICAL CLOSET 308
Supply From:
Mounting: Surface
Enclosure: Type 1
Volts: 120/208V
Phases: 3
Wires: 4
Neutral:
Ground Bus:
A.I.C.:
A.S.C.:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle Elec. Clo. 308	20 A	1	180 VA 480 VA			1	20 A	Incubator Tissue Culture 309B	2
3	Security DATA CLOSET 320	20 A	1		1500... 480 VA		1	20 A	Incubator Tissue Culture 309B	4
5	Security DATA CLOSET 320	20 A	1			1500... 480 VA	1	20 A	Incubator Tissue Culture 309B	6
7	CATV DATA CLOSET 320	20 A	1	360 VA 780 VA			1	20 A	Undercounter Refrigerator Wet Lab 309	8
9	FCU-4 Stair A S3A	20 A	1		1392... 180 VA		1	20 A	Receptacle, UC Refrigerator Wet Lab 309	10
11	Receptacle, UC Refrigerator Wet Lab 309	20 A	1			720 VA 250 VA	1	20 A	ATC Elevator Lobby C3A	12
13				250 VA			1	20 A	ATC Elevator Lobby C3A	14
15	Receptacles	20 A	1		360 VA 360 VA		1	20 A	Receptacle CGI SERVER-1 322-1	16
17	ATC CORRIDOR C3B	20 A	1			250 VA 1440...	1	30 A	Connection to 5KV UPS	18
19	ATC CORRIDOR C3B	20 A	1	250 VA						20
21	ATC WET LAB 309	20 A	1		250 VA 900 VA		3	20 A	FCU-1 (2HP) DATA CLOSET320	22
23	ATC WET LAB 309	20 A	1			250 VA 900 VA	--	--	--	24
25	FCU-12 (5HP) DATA CLOSET322	40 A	3	900 VA 900 VA			--	--	--	26
27	--	--	--		900 VA 1440...		1	30 A	Connection to 5KV UPS	28
29	--	--	--			900 VA				30
31										32
33										34
35										36
37										38
39										40
41										42
				Total Load: 4100 VA	7762 VA	6690 VA				
				Total Amps: 34 A	68 A	59 A				

Branch Panel: EQ232

Location: FUME HOOD ALCOVE 316H
Supply From:
Mounting: Recessed
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
Neutral:
Ground Bus:
A.I.C.:
A.S.C.:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	2
3	Refrigerator Wet Lab 316	20 A	1		1200... 1200...		1	20 A	Refrigerator Wet Lab 316	4
5	Refrigerator, Receptacle Wet Lab 316	20 A	1			1200... 1200...	1	20 A	Refrigerator, Receptacle Wet Lab 316	6
7	Power	20 A	1	1000... 0 VA			1	20 A	Spare	8
9	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	10
11	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	12
13	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	14
15	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	16
17	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	18
19	ATC Wet Lab 316	20 A	1	250 VA 360 VA			1	20 A	Receptacle Wet Lab 316	20
21	ATC Wet Lab 316	20 A	1		250 VA 0 VA		1	20 A	Spare	22
23	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	24
25	Connection to 5KV UPS	30 A	1	1440... 0 VA			1	20 A	Spare	26
27	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	28
29	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	32
33	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	34
35	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	38
39	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	40
41	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	42
				Total Load: 3050 VA	2650 VA	2400 VA				
				Total Amps: 26 A	22 A	20 A				

GENERAL NOTES:

1. SPARE CIRCUIT BREAKERS IN ALL PANELS UPDATED VIA ADDENDUM #1.

Branch Panel: XP239

Location: TISSUE CULTURE 316G
Supply From:
Mounting: Recessed
Enclosure: Type 1
Volts: 120/208V
Phases: 3
Wires: 4
Neutral:
Ground Bus:
A.I.C.:
A.S.C.:
Mains Type:
Mains Rating: 100 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Wiremold Wet Lab 316	20 A	1	720 VA 720 VA			1	20 A	Wiremold Wet Lab 316	2
3	Wiremold Wet Lab 316	20 A	1		720 VA 720 VA		1	20 A	Wiremold Wet Lab 316	4
5	Receptacle Wet Lab 316	20 A	1			360 VA 360 VA	1	20 A	Receptacle Wet Lab 316	6
7	Receptacle FUME HOOD ALCOVE 316H	20 A	1	360 VA 360 VA			1	20 A	Receptacle Wet Lab 316	8
9	Spare	20 A	1		180 VA					10
11	Equipment TISSUE CULTURE 316G	20 A	1			360 VA 0 VA	1	20 A	Spare	12
13	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	14
15	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	16
17	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	20
21	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	22
23	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	26
27	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	28
29	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	32
33	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	34
35	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	38
39	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	40
41	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	42
				Total Load: 2160 VA	1620 VA	1080 VA				
				Total Amps: 19 A	14 A	9 A				

Branch Panel: XP2310

Location: Space CC4142
Supply From:
Mounting: Recessed
Enclosure: Type 1
Volts: 120/208V
Phases: 3
Wires: 4
Neutral:
Ground Bus:
A.I.C.:
A.S.C.:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Wiremold Wet Lab 316	20 A	1	630 VA 720 VA			1	20 A	Wiremold Wet Lab 316	2
3	Wiremold Wet Lab 316	20 A	1		540 VA 720 VA		1	20 A	Wiremold Wet Lab 316	4
5	Polisher WET LAB-1 316-1	20 A	1			360 VA 630 VA	1	20 A	Wiremold Wet Lab 316	6
7	Wiremold Wet Lab 316	20 A	1	720 VA 540 VA			1	20 A	Wiremold Wet Lab 316	8
9	Wiremold Wet Lab 316	20 A	1		720 VA 720 VA		1	20 A	Wiremold Wet Lab 316	10
11	Fume Hood Fume Hood Alcove 316H	20 A	1			1000... 540 VA	1	20 A	Wiremold Wet Lab 316	12
13	Fume Hood Fume Hood Alcove 316H	20 A	1	1000... 180 VA			1	20 A	Glass Washer Rm. 316I	14
15	Glass Washer Rm. 316I	20 A	1		180 VA 360 VA		1	20 A	Wiremold Lab Support 309M	16
17	Icemaker Rm. 316I	20 A	1			180 VA 360 VA	1	20 A	Receptacle WET LAB-1 316-1	18
19	FCU-7 Corridor/Informal Study	20 A	3	420 VA 288 VA			3	20 A	FCU-6 Wet Lab 316	20
21	--	--	--		420 VA 288 VA		--	--	--	22
23	--	--	--			420 VA 288 VA	--	--	--	24
25	Wiremold Fume Hood 316H	20 A	1	360 VA 540 VA			1	20 A	Receptacle WET LAB-1 316-1	26
27	Wiremold Fume Hood 316H	20 A	1		360 VA					28
29	Power FUME HOOD ALCOVE 316H	20 A	1			1000...				30
31	Power FUME HOOD ALCOVE 316H	20 A	1	1000...						32
33	Wiremold Lab Support 309M	20 A	1		360 VA					34
35										36
37										38
39										40
41										42
				Total Load: 6398 VA	4668 VA	4778 VA				
				Total Amps: 53 A	39 A	40 A				

Branch Panel: L43

Location: ELECTRICAL CLOSET 314
Supply From:
Mounting: Surface
Enclosure: Type 1
Volts: 277/480V
Phases: 3
Wires: 4
Neutral:
Ground Bus:
A.I.C.:
A.S.C.:
Mains Type:
Mains Rating: 100 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Light Rms 306A,B 307A,B, 304, 303, 321	20 A	1	360 VA 514 VA			1	20 A	Light Rms 316B,C,D, 315,A,B, 309G,H,J	2
3	Light Rms 309C,D,E,F, 316J,H,G,F,E	20 A	1		676 VA 980 VA		1	20 A	LIGHTING ZONE 1	4
5	LIGHTING ZONE 2	20 A	1			980 VA 2156...	1	20 A	LIGHTING ZONE 3	6
7	LIGHTING ZONE 4	20 A	1	2156... 754 VA			1	20 A	LIGHTING ZONES 6,7,11,13	8
9	LIGHTING ZONES 8,9,10	20 A	1		1015... 1517...		1	20 A	LIGHTING ZONES 13,14,15,16,17,18,19,20,21,22	10
11	LIGHTING ZONES 11,12	20 A	1			430 VA 2168...	1	20 A	Other WET LAB-1 309-1	12
13	Other	20 A	1	1076... 1161...			1	20 A	Lighting - Dwelling Unit CYLINDER STORAGE...	14
15	Other TISSUE CULTURE 309B	20 A	1		196 VA 0 VA		1	20 A	Spare	16
17	Other OFFICE 306A	20 A	1			547 VA 0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	20
21	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	22
23	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	26
27	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	28
29	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	32
33	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	34
35	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	38
39	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	40
41	Spare	2 A	1			0 VA 0 VA	1	20 A	Spare	42
				Total Load: 6021 VA	4384 VA	6280 VA				
				Total Amps: 23 A	16 A	24 A				

Branch Panel: LS23

Location: ELECTRICAL CLOSET 308
Supply From:
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
Neutral:
Ground Bus:
A.I.C.:
A.S.C.:
Mains Type:
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Fire Smoke Damper (2nd Floor)	20 A	1	750 VA 500 VA			1	20 A	FATC (2nd Floor)	2
3	FATC (3rd Floor)	20 A	1		500 VA 750 VA		1	20 A	Fire Smoke Damper (3rd Floor)	4
5	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	6
7	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	8
9	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	10
11	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	12
13	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	14
15	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	16
17	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	20
21	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	22
23	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	26
27	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	28
29	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	32
33	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	34
35	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	38
39	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	40
41	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	42
				Total Load: 1250 VA	1250 VA	0 VA				
				Total Amps: 12 A	12 A	0 A				

UNIVERSITY OF CONNECTICUT

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ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	2015-03-25	BID ADDENDUM 01

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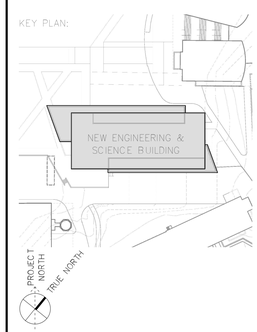
KEY PLAN:



PROJECT:
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:
ELECTRICAL PANEL SCHEDULES

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

CONFORMED SET: 05/29/2015

E-607

Branch Panel: XP245

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1
Volts: 120/208V
Phases: 3
Wires: 4
Neutral:
Ground Bus:
A.I.C.:
A.S.C.:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Power WET LAB 409	20 A	1	540 VA	630 VA					1	20 A	Wiremold Wet Lab 409	2
3	Wiremold Wet Lab 409	20 A	1			720 VA	540 VA			1	20 A	Wiremold Wet Lab 409	4
5	Wiremold Wet Lab 409	20 A	1					540 VA	540 VA	1	20 A	Wiremold Wet Lab 409	6
7	Wiremold Wet Lab 409	20 A	1	720 VA	720 VA					1	20 A	Wiremold Wet Lab 409	8
9	Receptacle Wet Lab 409	20 A	1			360 VA	360 VA			1	20 A	Receptacle Wet Lab 409	10
11	Receptacle Wet Lab 409	20 A	1					360 VA	420 VA	3	20 A	FCU-6 Meeting/Breakout 405	12
13	FCU-5 Dry Lab 406	20 A	3	288 VA	420 VA					--	--	--	14
15	--	--	--			288 VA	420 VA			--	--	--	16
17	--	--	--					288 VA	288 VA	3	20 A	FCU-5 Dry Lab 407	18
19	Refrigerator Shared Equipt. 410	20 A	1	600 VA	288 VA					--	--	--	20
21	Centrifuge SHARED EQUIPMENT ROOM 410	20 A	1			1800...	288 VA			--	--	--	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	4206 VA		4776 VA		2436 VA					
			Total Amps:	37 A		42 A		20 A					

Branch Panel: XP241

Location: WET LAB 409
Supply From:
Mounting: Surface
Enclosure: Type 1
Volts: 120/208V
Phases: 3
Wires: 4
Neutral:
Ground Bus:
A.I.C.:
A.S.C.:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Wiremold Wet Lab 409	20 A	1	720 VA	540 VA					1	20 A	Wiremold Wet Lab 409	2
3	Wiremold Wet Lab 409	20 A	1			720 VA	720 VA			1	20 A	Wiremold Wet Lab 409	4
5	Wiremold Wet Lab 409	20 A	1					720 VA	720 VA	1	20 A	Wiremold Wet Lab 409	6
7	Wiremold Wet Lab 409	20 A	1	720 VA	720 VA					1	20 A	Wiremold Wet Lab 409	8
9	Wiremold Wet Lab 409	20 A	1			540 VA	540 VA			1	20 A	Receptacle Wet Lab 409	10
11	Wiremold Wet Lab 409	20 A	1					720 VA	1000...	1	20 A	Power FUME HOOD ALCOVE 409G	12
13	Receptacle FUME HOOD ALCOVE 409G	20 A	1	540 VA	1000...					1	20 A	Power FUME HOOD ALCOVE 409G	14
15	FCU-7 Corridor/Informal Study C4C	20 A	3			420 VA	1000...			1	20 A	Power FUME HOOD ALCOVE 409G	16
17	--	--	--					420 VA	1000...	1	20 A	Power FUME HOOD ALCOVE 409G	18
19	--	--	--	420 VA	360 VA					1	20 A	Receptacle FUME HOOD ALCOVE 409G	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	1440...	1	20 A	BSC BACTERIAL TISSUE CULTURE 409E	24
25	BSC BACTERIAL TISSUE CULTURE 409E	20 A	1	1440...	600 VA					1	20 A	Refrigerator BACTERIAL TISSUE CULTURE 409E	26
27	Wiremold BACTERIAL TISSUE CULTURE 409E	20 A	1			450 VA	500 VA			1	20 A	Manifold CYLINDER STORAGE 409H	28
29	Wiremold Bacterial Tissue Culture 409E	20 A	1					360 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	7060 VA		4890 VA		6380 VA					
			Total Amps:	61 A		41 A		55 A					

Distribution Panel: DP24

Location: ELECTRICAL CLOSET 414
Supply From:
Mounting: Surface
Enclosure: Type 1
Breakers: 0
Volts: 120/208 Wye
Phases: 3
Wires: 4
Neutral: Full
Ground Bus: Yes
A.I.C.:
A.S.C.:
Mains Type: MCB
Mains Rating: 600 A
MCB Rating: 500 A

Notes:

CKT	Circuit Description	Frame Size	Trip Rating	# of Poles	Load	Feeder Size	Remarks
1	RP24	100 A	100 A	3	15 kVA		
2	XP241	100 A	100 A	3	18 kVA		
3	XP242	100 A	100 A	3	19 kVA		
4	XP243	100 A	100 A	3	18 kVA		
5	XP244	100 A	100 A	3	14 kVA		
6	XP245	100 A	100 A	3	11 kVA		
7	XP246	100 A	100 A	3	15 kVA		
8	XP247	100 A	100 A	3	17 kVA		
9	XP248	100 A	100 A	3	7 kVA		
10	XP249	100 A	100 A	3	18 kVA		
11	XP2410	100 A	100 A	3	16 kVA		
12	Control Pnl SHARED EQUIPMENT ROOM...	100 A	40 A	3	15 kVA		
13	Condensate Unit (1.5HP) COLD ROOM 410A	100 A	25 A	3	1 kVA		
14	Control Pnl SHARED EQUIPMENT ROOM...	100 A	40 A	3	15 kVA		
15	Condensate Unit (1.5HP) COLD ROOM 412B	100 A	25 A	3	1 kVA		
16	Spare	--	100 A	3	0 kVA		100AF
17	Spare	--	100 A	3	0 kVA		100AF
18	Space	--	--	--	0 kVA		--
19	Space	--	--	--	0 kVA		--
20	Space	--	--	--	0 kVA		--
21	Space	--	--	--	0 kVA		--
22	Space	--	--	--	0 kVA		--
23	Space	--	--	--	0 kVA		--
24	Space	--	--	--	0 kVA		--
				Total Conn. Load:	201 kVA		
				Ttl Demand Load:	130 kVA		
				Total Demand Amps:	361 A		

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	58969 VA	65.00%	38330 VA		
Other	720 VA	100.00%	720 VA	Total Conn. Load:	201469 VA
Power	30360 VA	100.00%	30360 VA	Total Est. Demand:	130120 VA
Receptacle	111420 VA	54.49%	60710 VA	Total Conn.:	559 A
				Total Est. Demand:	361 A

Notes:

Branch Panel: XP246

Location: WET LAB 416
Supply From:
Mounting: Surface
Enclosure: Type 1
Volts: 120/208V
Phases: 3
Wires: 4
Neutral:
Ground Bus:
A.I.C.:
A.S.C.:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Fume Hood Fume Hood Alcove 416C	20 A	1	1000...	360 VA					1	20 A	Receptacle FUME HOOD ALCOVE 416C	2
3	Fume Hood Fume Hood Alcove 416C	20 A	1			1000...	360 VA			1	20 A	Receptacle FUME HOOD ALCOVE 416C	4
5	Receptacle, Poke-thru Dry Lab 415	20 A	1					720 VA	360 VA	1	20 A	Poke-thru Dry Lab 415	6
7	Receptacle, Poke-thru Dry Lab 415	20 A	1	900 VA	360 VA					1	20 A	Receptacle Wet Lab 416	8
9	Receptacle Wet Lab 416	20 A	1			360 VA	360 VA			1	20 A	Receptacle Wet Lab 416	10
11	Wiremold Wet Lab 416	20 A	1					540 VA	540 VA	1	20 A	Wiremold Wet Lab 416	12
13	Wiremold Wet Lab 416	20 A	1	720 VA	720 VA					1	20 A	Wiremold Wet Lab 416	14
15	Receptacle Wet Lab 416	20 A	1			360 VA	540 VA			1	20 A	Receptacle Wet Lab 416	16
17	Wiremold Wet Lab 416	20 A	1					720 VA	420 VA	3	20 A	FCU-6 Dry Lab 415	18
19	Wiremold Wet Lab 416	20 A	1	900 VA	420 VA					--	--	--	20
21	FCU-5 Wet Lab 416	20 A	3			288 VA	420 VA			--	--	--	22
23	--	--	--					288 VA	1000...	1	20 A	Fume Hood Fume Hood Alcove 416C	24
25	--	--	--	288 VA	1000...					1	20 A	Fume Hood Fume Hood Alcove 416C	26
27	Manifold CYLINDER STORAGE 416A	20 A	1			500 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	6668 VA		4188 VA		4588 VA					
			Total Amps:	56 A		35 A		39 A					

Branch Panel: XP242

Location: WET LAB 409
Supply From:
Mounting: Surface
Enclosure: Type 1
Volts: 120/208V
Phases: 3
Wires: 4
Neutral:
Ground Bus:
A.I.C.:
A.S.C.:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Wiremold Wet Lab 409	20 A	1	540 VA	540 VA					1	20 A	Wiremold Wet Lab 409	2
3	Wiremold Wet Lab 409	20 A	1			720 VA	720 VA			1	20 A	Wiremold Wet Lab 409	4
5	Wiremold Wet Lab 409	20 A	1					540 VA	540 VA	1	20 A	Wiremold Wet Lab 409	6
7	Wiremold Wet Lab 409	20 A	1	720 VA	720 VA					1	20 A	Wiremold Wet Lab 409	8
9	Receptacle Wet Lab 409	20 A	1			360 VA	360 VA			1	20 A	Receptacle Wet Lab 409	10
11	Receptacle Wet Lab 409	20 A	1					360 VA	540 VA	1	20 A	Wiremold Lab Support 409F	12
13	Wiremold Lab Support 409F	20 A	1	360 VA	540 VA					1	20 A	Wiremold Lab Support 409F	14
15	Wiremold Lab Support 409F	20 A	1			540 VA	288 VA			3	20 A	FCU-5 Wet Lab 409	16
17	FCU-6 Electrical Closet 414	20 A	3					420 VA	288 VA	--	--	--	18
19	--	--	--	420 VA	288 VA					--	--	--	20
21	--	--	--			420 VA	1440...			1	20 A	BSC TISSUE CULTURE 409I	22
23	BSC TISSUE CULTURE 409I	20 A	1					1440...	1440...	1	20 A	BSC TISSUE CULTURE 409I	24
25	Wiremold & Receptacle TISSUE CULTURE 409I	20 A	1	900 VA	600 VA					1	20 A	Refrigerator Tissue Culture 409I	26
27	Refrigerator SHARED EQUIPMENT ROOM 412	20 A	1			600 VA	600 VA			1	20 A	Refrigerator SHARED EQUIPMENT ROOM 412	28
29	Centrifuge SHARED EQUIPMENT ROOM 412	20 A	1					1800...	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	5628 VA		6048 VA		7368 VA					
			Total Amps:	47 A		51 A		62 A					

Distribution Panel: EQDP24

Location: ELECTRICAL CLOSET 408
Supply From:
Mounting: Surface
Enclosure: Type 1
Breakers: 0
Volts: 120/208V
Phases: 3
Wires: 4
Neutral:
Ground Bus:
A.I.C.:
A.S.C.:
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

Notes:

CKT	Circuit Description	Frame Size	Trip Rating	# of Poles	Load	Feeder Size	Remarks
1	EQ241	100 A	100 A	3	14 kVA		
2	EQ242	100 A	100 A	3	18 kVA		
3	EQ243	100 A	100 A	3	17 kVA		
4	EQ244	100 A	100 A	3	25 kVA		
5	Spare	--	100 A	1	0 kVA		100AF
6	Spare	--	10 A	1	0 kVA		100AF
7	Space	--	--	--	0 kVA		--
8	Space	--	--	--	0 kVA		--
9	Space	--	--	--	0 kVA		--
10	Space	--	--	--	0 kVA		--
11	Space	--	--	--	0 kVA		--
12	Space	--	--	--	0 kVA		--
				Total Conn. Load:	73020.0 VA		
				Ttl Demand Load:	47.945 kVA		
				Total Demand Amps:	133.082 A		

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	42900 VA	65.00%	27885 VA		
Receptacle	30120 VA	66.60%	20060 VA	Total Conn. Load:	73020 VA
				Total Est. Demand:	47945 VA
				Total Conn.:	203 A
				Total Est. Demand:	133 A

Notes:

Branch Panel: XP247

Location: WET LAB 416
Supply From:
Mounting: Surface
Enclosure: Type 1
Volts: 120/208V
Phases: 3
Wires: 4
Neutral:
Ground Bus:
A.I.C.:
A.S.C.:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Wiremold Shared Equipt. rm. 412A	20 A	1	540 VA	540 VA					1	20 A	Wiremold Shared Equipt. rm. 412A	2
3	Wiremold Shared Equipt. rm. 412A	20 A	1			720 VA	720 VA			1	20 A	Wiremold Shared Equipt. rm. 412A	4
5	Wiremold Shared Equipt. rm. 416D	20 A	1					540 VA	360 VA	1	20 A	Wiremold Shared Equipt. rm. 416D	6
7	Wiremold Shared Equipt. rm. 416D	20 A	1	540 VA	540 VA					1	20 A	Wiremold Shared Equipt. rm. 416D	8
9	Receptacle Wet Lab 416	20 A	1			360 VA	360 VA			1	20 A	Receptacle Wet Lab 416	10
11	Receptacle Wet Lab 416	20 A	1					360 VA	540 VA	1	20 A	Wiremold Wet Lab 416	12
13	Wiremold Wet Lab 416	20 A	1	630 VA	720 VA					1	20 A	Wiremold Wet Lab 416	14
15	Wiremold Wet Lab 416	20 A	1			540 VA	540 VA			1	20 A	Wiremold Wet Lab 416	16
17	Wiremold Wet Lab 416	20 A	1					630 VA	720 VA	1	20 A	Wiremold Wet Lab 416	18
19	Wiremold Wet Lab 416	20 A	1	540 VA	288 VA					3	20 A	FCU-5 Wet Lab 416	20
21	Spare	20 A	1			0 VA	288 VA			--	--	--	22
23	Spare	20 A	1					0 VA	288 VA	--	--	--	24
25	Spare	20 A	1	0 VA	1440...					1	20 A	BSC Tissue Culture 416B	26
27	BSC TISSUE CULTURE 416B	20 A	1			1440...	1440...			1	20 A	BSC Tissue Culture 416B	28
29	Refrigerator Tissue Culture 416B	20 A	1					600 VA	540 VA	1	20 A	Wiremold & Receptacle TISSUE CULTURE 416B	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	5778 VA		6408 VA		4578 VA					
			Total Amps:	50 A		55 A		38 A					

Branch Panel: XP243

Location: WET LAB 409
Supply From:
Mounting: Surface
Enclosure: Type 1
Volts: 120/208V
Phases: 3
Wires: 4
Neutral:
Ground Bus:
A.I.C.:
A.S.C.:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Wiremold Wet Lab 409	20 A	1	720 VA	720 VA					1	20 A	Wiremold Wet Lab 409	2
3	Wiremold Wet Lab 409	20 A	1			720 VA	720 VA			1	20 A	Wiremold Wet Lab 409	4
5	Wiremold Wet Lab 409	20 A	1					720 VA	720 VA	1	20 A	Wiremold Wet Lab 409	6
7	Wiremold Wet Lab 409	20 A	1	720 VA	720 VA					1	20 A	Wiremold Wet Lab 409	8
9	Receptacle Wet Lab 409	20 A	1			360 VA	360 VA			1	20 A	Receptacle Wet Lab 409	10
11	Receptacle Wet Lab 409	20 A	1					360 VA	1000...	1	20 A	Fume Hood Fume Hood Alcove 409C	12
13	Receptacle FUME HOOD ALCOVE 409C	20 A	1	540 VA	1000...					1	20 A	Fume Hood Fume Hood Alcove 409C	14
15	Wiremold Lab Support 409D	20 A	1			360 VA	0 VA			1	0 A	Spare	16
17	Wiremold Lab Support 409D	20 A	1					540 VA	360 VA	1	20 A	Wiremold Lab Support 409D	18
19	FCU-6 Wet Lab 409	20 A	3	288 VA	540 VA					1	20 A	Wiremold Lab Support 409D	20
21	--	--	--			288 VA	288 VA			3	20 A	FCU-6 Wet Lab 409	22
23	--	--	--					288 VA	288 VA	--	--	--	24
25	Overhead Service Imaging/Optical Lab 411	20 A	1	720 VA	288 VA					--	--	--	26
27	Overhead Service Imaging/Optical Lab 411	20 A	1			540 VA	540 VA			1	20 A	Overhead Service Imaging/Optical Lab 411	28
29	Overhead Service Imaging/Optical Lab 411	20 A	1					540 VA	540 VA	1	20 A	Overhead Service Imaging/Optical Lab 411	30
31	Overhead Service Imaging/Optical Lab 411	20 A	1	540 VA	1000...					1	20 A	Fume Hood Fume Hood Alcove 409C	32
33	Spare	20 A	1			0 VA	1000...			1	20 A	Fume Hood Fume Hood Alcove 409C	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	7796 VA		5176 VA		5356 VA					
			Total Amps:	65 A		43 A		45 A					

Branch Panel: UPS24

Location: IDF-1 420-1
Supply From:
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
Neutral:
Ground Bus:
A.I.C.:
A.S.C.:
Mains Type: MLO
Mains Rating: 60 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RACK 1 DATA CLOSET 420	30 A	3	2340...	2340...					3	30 A	RACK 1 DATA CLOSET 420	2
3	--	--	--			2340...	2340...			--	--	--	4
5	--	--	--					2340...	2340...	--	--	--	6
7	RACK 2 DATA CLOSET 420	20 A	1	360 VA	360 VA					1	20 A	VOICE DATA CLOSET 420	8
9	VOICE DATA CLOSET 420	20 A	1			360 VA	0 VA			1	20 A	Spare	10
11	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	12
			Total Load:	5400 VA		5040 VA		4680 VA					
			Total Amps:	45 A		42 A		39 A					

Branch Panel: XP248

Location: WET LAB 416
Supply From:
Mounting: Surface
Enclosure: Type 1
Volts: 120/208V
Phases: 3
Wires: 4
Neutral:
Ground Bus:
A.I.C.:
A.S.C.:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle Confocal 416E	20 A	1	540 VA	540 VA					1	20 A	Receptacle Confocal 416E	2
3	Receptacle Wet Lab 416	20 A	1			360 VA	360 VA			1	20 A	Receptacle Wet Lab 416	4
5	Receptacle Wet Lab 416	20 A	1					360 VA	540 VA	1	20 A	Wiremold Wet Lab 416	6
7	Wiremold Wet Lab 416	20 A	1	720 VA	720 VA					1	20 A	Wiremold Wet Lab 416	8
9	Wiremold Wet Lab 416	20 A	1			540 VA	540 VA			1	20 A	Wiremold Wet Lab 416	10
11	Wiremold Wet Lab 416	20 A	1					540 VA	720 VA	1	20 A	Wiremold Wet Lab 416	12
13	Wiremold Wet Lab 416	20 A	1	720 VA	0 VA					1	20 A	Spare	14
15	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	3240 VA		1800 VA		2160 VA					
			Total Amps:	27 A		15 A		18 A					

Branch Panel: XP244

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1
Volts: 120/208V
Phases: 3
Wires: 4
Neutral:
Ground Bus:
A.I.C.:
A.S.C.:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1					1260...					1	20 A	Receptacle Wet Lab 409	2
3							540 VA			1	20 A	Wiremold Wet Lab 409	4
5	Wiremold Wet Lab 409	20 A	1					540 VA	720 VA	1	20 A	Wiremold Wet Lab 409	6
7	Wiremold Wet Lab 409	20 A	1	720 VA	360 VA					1	20 A	Receptacle Wet Lab 409	8
9	Receptacle Wet Lab 409	20 A	1			360 VA	360 VA			1	20 A	Receptacle Wet Lab 409	10
11	Receptacle Wet Lab 409	20 A	1					360 VA	540 VA	1	20 A	Wiremold Microscope rm. 410B	12
13	Wiremold Microscope rm. 410B	20 A	1	630 VA	720 VA					1	20 A	Wiremold Microscope rm. 410B	14
15	Wiremold Microscope rm. 410B	20 A	1			540 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	1440...	1	20 A	BSC Tissue Culture 409B	18
19	BSC Tissue Culture 409B	20 A	1	1440...	1440...					1	20 A	BSC Tissue Culture 409B	20
21	Wiremold & Receptacle Tissue Culture 409B	20 A	1			720 VA	600 VA			1	20 A	Refrigerator Tissue Culture 409B	22
23	Manifold CYLINDER STORAGE 409A	20 A	1					500 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	6570 VA		3120 VA		4100 VA					
			Total Amps:	56 A		26 A		35 A					

GENERAL NOTES:
1. SPARE CIRCUIT BREAKERS IN ALL PANELS UPDATED VIA ADDENDUM #1.

CONFORMED SET: 05/29/2015

UNIVERSITY OF CONNECTICUT

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ISSUE/REVISION:

NO.	DATE	COMMENTS
1	2015-03-23	BID ADDENDUM 01

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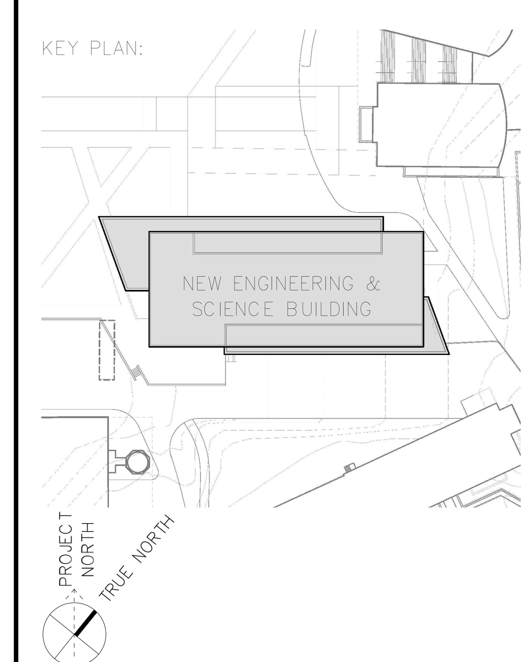
KEY PLAN:



PROJECT:
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:
ELECTRICAL PANEL SCHEDULES

PROJECT NO: 092203
DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS
SCALE: 1/8" = 1'-0"

E-608

Branch Panel: EQ243

Location: WET LAB 416 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Incubator Tissue Culture 416B	20 A	1	480 VA	480 VA					1	20 A	Incubator Tissue Culture 416B	2
3	Incubator Tissue Culture 416B	20 A	1			480 VA	1000...			1	20 A	-20C Freezer SHARED EQUIPMENT ROOM 412	4
5	-80C Freezer SHARED EQUIPMENT ROOM 412	20 A	2					1040...	1000...	1	20 A	-20C Freezer SHARED EQUIPMENT ROOM 412	6
7	--	--	--	1040...	1920...					1	30 A	-80C Freezer SHARED EQUIPMENT ROOM 412	8
9	Receptacle Lab Support 416D	20 A	1			360 VA	1920...			1	30 A	-80C Freezer SHARED EQUIPMENT ROOM 412	10
11	Refrigerator Wet Lab 416	20 A	1					1200...	1200...	1	20 A	Refrigerator Wet Lab 416	12
13	Refrigerator Wet Lab 416	20 A	1	1200...	250 VA					1	20 A	ATC WET LAB 416	14
15	Refrigerator Wet Lab 416	20 A	1			1200...	250 VA			1	20 A	ATC WET LAB 416	16
17	Refrigerator Wet Lab 416	20 A	1					1200...	250 VA	1	20 A	ATC WET LAB 416	18
19	Spare	20 A	1	0 VA	250 VA					1	20 A	ATC WET LAB 416	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
		Total Load:		5620 VA		5210 VA		5890 VA					
		Total Amps:		47 A		43 A		50 A					

Branch Panel: EQ244

Location: WET LAB 409 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle Electrical Closet 414	20 A	1	180 VA	480 VA					1	20 A	Receptacle TISSUE CULTURE 409I	2
3	Incubator Tissue Culture 409I	20 A	1			480 VA	480 VA			1	20 A	Incubator Tissue Culture 409I	4
5	ATC WET LAB 409	20 A	1					250 VA	250 VA	1	20 A	ATC WET LAB 409	6
7	ATC WET LAB 409	20 A	1	250 VA	250 VA					1	20 A	ATC WET LAB 409	8
9	Wiremold Tissue Culture 409I	20 A	1			360 VA	1000...			1	20 A	-20C Freezer SHARED EQUIPMENT ROOM 410	10
11	-80C Freezer SHARED EQUIPMENT ROOM 410	20 A	2					1040...	1000...	1	20 A	-20C Freezer SHARED EQUIPMENT ROOM 410	12
13	--	--	--	1040...	360 VA					1	20 A	Receptacle Lab Support 409D, 416F	14
15	-80C Freezer SHARED EQUIPMENT ROOM 412	30 A	1			1920...	1040...			2	20 A	-80C Freezer SHARED EQUIPMENT ROOM 412	16
17	-80C Freezer SHARED EQUIPMENT ROOM 412	30 A	1					1920...	1040...	--	--	--	18
19	Refrigerator Wet Lab 409	20 A	1	1200...	1200...					1	20 A	Refrigerator Wet Lab 409	20
21	Refrigerator Wet Lab 409	20 A	1			1200...	1200...			1	20 A	Refrigerator Wet Lab 409	22
23	Incubator BACTERIAL TISSUE CULTURE 409E	20 A	1					480 VA	1920...	1	30 A	-80C Freezer SHARED EQUIPMENT ROOM 410	24
25	-20C Freezer SHARED EQUIPMENT ROOM 412	20 A	1	1000...	1920...					1	30 A	-80C Freezer SHARED EQUIPMENT ROOM 410	26
27	-20C Freezer SHARED EQUIPMENT ROOM 412	20 A	1			1000...	0 VA			1	20 A	Spare	28
29	Incubator Bacterial Tissue Culture 409E	20 A	1					480 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
		Total Load:		7880 VA		8680 VA		8380 VA					
		Total Amps:		66 A		73 A		70 A					

Branch Panel: EQ241

Location: ELECTRICAL CLOSET 408 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle Electrical Closet 408	20 A	1	180 VA									
3	Equipment DATA CLOSET 420	20 A	1			1500...	480 VA			1	20 A	Incubator Tissue Culture 409B	4
5	Equipment DATA CLOSET 420	20 A	1					1500...	480 VA	1	20 A	Incubator Tissue Culture 409B	6
7	Receptacle DATA CLOSET 420	20 A	1	360 VA	480 VA					1	20 A	Incubator Tissue Culture 409B	8
9	Spare	20 A	1			0 VA							10
11	Refrigerator Wet Lab 409	20 A	1					1200...	1200...	1	20 A	Refrigerator Wet Lab 409	12
13	Refrigerator Wet Lab 409	20 A	1	1200...	1200...					1	20 A	Refrigerator Wet Lab 409	14
15	Refrigerator Wet Lab 409	20 A	1			1200...	0 VA			1	20 A	Spare	16
17	FCU-1 DATA CLOSET 420	15 A	3					900 VA	0 VA	1	20 A	Spare	18
19	--	--	--	900 VA	0 VA					1	20 A	Spare	20
21	--	--	--			900 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
		Total Load:		4320 VA		4080 VA		5280 VA					
		Total Amps:		36 A		34 A		44 A					

Branch Panel: EQ242

Location: ELECTRICAL CLOSET 408 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Incubator Tissue Culture 416I	20 A	1	480 VA	480 VA					1	20 A	Incubator Tissue Culture 416I	2
3	-20C Freezer SHARED EQUIPMENT ROOM 410	20 A	1			1000...	480 VA			1	20 A	Incubator Tissue Culture 416I	4
5	-20C Freezer SHARED EQUIPMENT ROOM 410	20 A	1					1000...	1920...	1	30 A	-80C Freezer SHARED EQUIPMENT ROOM 410	6
7	ATC ELEV LOBBY C4A	20 A	1	250 VA	1920...					1	30 A	-80C Freezer SHARED EQUIPMENT ROOM 410	8
9	ATC ELEV LOBBY C4A	20 A	1			250 VA	1040...			2	20 A	-80C FreezerSHARED EQUIPMENT ROOM 410	10
11	ATC CORRIDOR C4B	20 A	1					250 VA	1040...	--	--	--	12
13	ATC CORRIDOR C4B	20 A	1	250 VA	1200...					1	20 A	Refrigerator Wet Lab 416	14
15	Refrigerator Wet Lab 416	20 A	1			1200...	1200...			1	20 A	Refrigerator Wet Lab 416	16
17	Refrigerator Wet Lab 416	20 A	1					1200...	420 VA	3	15 A	FCU-6 Shared Equipment room 410	18
19	FCU-6 Shared Equipment room 412	15 A	3	420 VA	420 VA					--	--	--	20
21	--	--	--			420 VA	420 VA			--	--	--	22
23	--	--	--					420 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
		Total Load:		5420 VA		6010 VA		6250 VA					
		Total Amps:		45 A		51 A		53 A					

Branch Panel: XP249

Location: SHARED EQUIPMENT ROOM... | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Wiremold Lab Support 416F	20 A	1	540 VA	450 VA					1	20 A	Wiremold Lab Support 416F	2
3	Wiremold Lab Support 416F	20 A	1			540 VA	360 VA			1	20 A	Wiremold Labt Support 416F	4
5	Receptacle Imaging/Optical Lab 411	20 A	1					720 VA	720 VA	1	20 A	Receptacle Imaging/Optical Lab 411	6
7	Receptacle Imaging/Optical Lab 411	20 A	1	720 VA	360 VA					1	20 A	Receptacle Imaging/Optical Lab 411	8
9	Wiremold Imaging/Optical Lab 411	20 A	1			720 VA	360 VA			1	20 A	Receptacle Wet Lab 416	10
11	Wiremold Imaging/Optical Lab 411	20 A	1					540 VA	360 VA	1	20 A	Receptacle Wet Lab 416	12
13	Receptacle Wet Lab 416	20 A	1	360 VA	540 VA					1	20 A	Wiremold Wet Lab 416	14
15	Wiremold Wet Lab 416	20 A	1			720 VA	720 VA			1	20 A	Wiremold Wet Lab 416	16
17	Wiremold Wet Lab 416	20 A	1					540 VA	540 VA	1	20 A	Wiremold Wet Lab 416	18
19	Wiremold Wet Lab 416	20 A	1	540 VA	720 VA					1	20 A	Wiremold Wet Lab 416	20
21	Wiremold Wet Lab 416	20 A	1			720 VA							22
23	Sterilizer Glass Wash 416H	20 A	1					180 VA	180 VA	1	20 A	Glass Washer Glass Wash 416H	24
25	Icemaker Glass Wash 416H	20 A	1	180 VA									26
27	BSC Tissue Culture 416I	20 A	1			1440...							28
29	BSC Tissue Culture 416I	20 A	1					1440...					30
31	BSC Tissue Culture 416I	20 A	1	1440...	540 VA					1	20 A	Wiremold & Receptacle TISSUE CULTURE 416I	32
33	Refrigerator Tissue Culture 416I	20 A	1			600 VA	600 VA			1	20 A	Refrigerator SHARED EQUIPMENT ROOM 410	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
		Total Load:		6390 VA		6780 VA		5220 VA					
		Total Amps:		55 A		58 A		44 A					

Branch Panel: XP2410

Location: Space CC4320 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Fume Hood Fume Hood Alcove 416G	20 A	1	1000...	360 VA					1	20 A	Receptacle Fume Hood Alcove 416G	2
3	Fume Hood Fume Hood Alcove 416G	20 A	1			1000...	360 VA			1	20 A	Receptacle Fume Hood Alcove 409C	4
5	Wiremold Wet Lab 416	20 A	1					1260...	540 VA	1	20 A	Receptacle Wet Lab 416	6
7	Spare	20 A	1	0 VA	720 VA					1	20 A	Wiremold Wet Lab 416	8
9	Wiremold Wet Lab 416	20 A	1			540 VA	720 VA			1	20 A	Wiremold Wet Lab 416	10
11	Wiremold Wet Lab 416	20 A	1					720 VA	540 VA	1	20 A	Wiremold Wet Lab 416	12
13	Wiremold Wet Lab 416	20 A	1	540 VA	720 VA					1	20 A	Wiremold Wet Lab 416	14
15	Wiremold Wet Lab 416	20 A	1			720 VA	288 VA			3	20 A	FCU-5 Wet Lab 416	16
17	FCU-7 Corridor & Informal Study C4A	20 A	3					420 VA	288 VA	--	--	--	18
19	--	--	--	420 VA	288 VA					--	--	--	20
21	--	--	--			420 VA	420 VA			3	20 A	FCU-6 Electrical Closet 406	22
23	FCU-7 Pantry/Workroom 404	20 A	3					186 VA	420 VA	--	--	--	24
25	--	--	--	186 VA	420 VA					--	--	--	26
27	--	--	--			186 VA	1000...			1	20 A	Fume Hood Fume Hood Alcove 416G	28
29	Manifold CYLINDER STORAGE 416J	20 A	1					500 VA	1000...	1	20 A	Fume Hood Fume Hood Alcove 416G	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
		Total Load:		4654 VA		5654 VA		5874 VA					
		Total Amps:		39 A		48 A		50 A					

Branch Panel: RP24

Location: ELECTRICAL CLOSET 414 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle Tech Office/Storage	20 A	1	900 VA	540 VA					1	20 A	Receptacle MEETING/BREAKOUT 405	2
3	Receptacle Janitor 417	20 A	1			540 VA	500 VA			1	20 A	EWC Corridor & Informal Study C4A	4
5	Receptacle Pantry/Workroom 404	20 A	1					180 VA	900 VA	1	20 A	Receptacle Meeting/Breakout 405	6
7	Receptacle Panty/workroom	20 A	1	360 VA	540 VA					1	20 A	Receptacle Dry Lab 406	8
9	Receptacle Corridor & Informal Study C4A	20 A	1			900 VA	360 VA			1	20 A	Poke-thru Meeting/Breakout 405	10
11	Poke-thru MEETING/BREAKOUT 405	20 A	1					360 VA	540 VA	1	20 A	Receptacle Dry Lab 406	12
13	Poke-thru Dry Lab 406	20 A	1	720 VA	540 VA					1	20 A	Receptacle Dry Lab 407	14
15	Poke-thru Dry Lab 407	20 A	1			720 VA	540 VA			1	20 A	Receptacle Dry Lab 407	16
17	Receptacle Corr. C4B, Wet Lab 409	20 A	1					540 VA	360 VA	1	20 A	Receptacle Wet Lab 416	18
19	Receptacle DATA CLOSET 420	20 A	1	720 VA	360 VA					1	20 A	Receptacle Corridor C4C	20
21	Quad CATV wall Space CC4376	20 A	1			360 VA	900 VA			1	20 A	Receptacle BUILDING STORAGE 421	22
23	Poke-Thru ELEV LOBBY C4A	20 A	1					720 VA	360 VA	1	20 A	Receptacle CORRIDOR C4C	24
25	Receptacle Wet Lab 416	20 A	1	720 VA	720 VA					1	20 A	Receptacle Space CC4343	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
		Total Load:		6120 VA		4820 VA		3960 VA					
		Total Amps:		52 A		41 A		33 A					

Branch Panel: L44

Location: ELECTRICAL CLOSET 414 | **Volts:** 277/480V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Light Rms 403, 404, 406, 407, 421,416I	20 A	1	562 VA	1851...					1	20 A	Light Rms 416B,C,D 412A, 415, 409F,I	2
3	Light Rms 409C,D,E, 410B, 411, 416J,H,G,F,E	20 A	1			1896...	401 VA			1	20 A	Lighting Zones Z23	4
5	Lighting Zones Z7, Z8,	20 A	1					2975...	2546...	1	20 A	Lighting Zones Z17, Z18, Z19,Z20,Z21	6
7	Lighting Zones Z4	20 A	1	1960...	1960...					1	20 A	Lighting Zones Z9	8
9	Lighting Zones Z5, Z11, Z12, Z13, Z22, Z30	20 A	1			803 VA	1960...			1	20 A	Lighting Zones Z3	10
11	Lighting Zones Z1, Z2, Z14	20 A	1					1015...	275 VA	1	20 A	Lighting Zones Z24	12
13	Lighting Zones Z25, Z26, Z27, Z28, Z29	20 A	1	539 VA	0 VA					1	20 A	Spare	14
15	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
		Total Load:		6872 VA		5060 VA		6810 VA					
		Total Amps:		26 A		18 A		26 A					

GENERAL NOTES:

1. SPARE CIRCUIT BREAKERS IN ALL PANELS UPDATED VIA ADDENDUM #1.

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ISSUE/REVISION:

NO.	DATE	COMMENTS
1	2015-03-23	BID ADDENDUM 01

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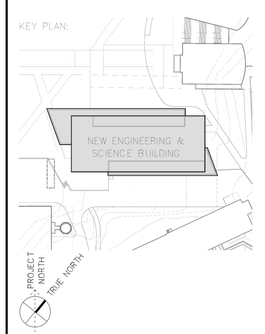
ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.

KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:

ELECTRICAL PANEL SCHEDULES

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

E-609

CONFORMED SET: 05/29/2015

Branch Panel: XP255

Location: OPEN WET LAB 509 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Fume Hood Open Wet Lab 509	20 A	1	1000...	1000...					1	20 A	Fume Hood Open Wet Lab 509	2
3	Fume Hood Open Wet Lab 509	20 A	1			1000...	1000...			1	20 A	Fume Hood Open Wet Lab 509	4
5	Fume Hood Open Wet Lab 509	20 A	1					1000...	1000...	1	20 A	Fume Hood Open Wet Lab 509	6
7	Fume Hood Open Wet Lab 509	20 A	1	1000...	1000...					1	20 A	Fume Hood Open Wet Lab 509	8
9	Wiremold Open Wet Lab 509	20 A	1			720 VA	720 VA			1	20 A	Wiremold Open Wet Lab 509	10
11	Wiremold Open Wet Lab 509	20 A	1					720 VA	720 VA	1	20 A	Wiremold Open Wet Lab 509	12
13	FCU-6 Electrical Closet 508	20 A	3	420 VA	288 VA					3	20 A	FCU-5 Dry Lab 506	14
15	--	--	--			420 VA	288 VA			--	--	--	16
17	--	--	--					420 VA	288 VA	--	--	--	18
19	FCU-5 Dry Lab 507	20 A	3	288 VA	400 VA					1	20 A	Power CYLINDER STO 509A	20
21	--	--	--			288 VA							22
23	--	--	--					288 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	5396 VA		4436 VA		4436 VA					
			Total Amps:	45 A		37 A		37 A					

Branch Panel: XP256

Location: OPEN WET LAB 517 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Jbox Open Wet Lab 517	20 A	1	360 VA	1000...					1	20 A	Fume Hood Open Wet Lab 517	2
3	Jbox Open Wet Lab 517	20 A	1			360 VA	1000...			1	20 A	Fume Hood Open Wet Lab 517	4
5	Jbox Open Wet Lab 517	20 A	1					360 VA	1000...	1	20 A	Fume Hood Open Wet Lab 517	6
7	Jbox Open Wet Lab 517	20 A	1	360 VA	1000...					1	20 A	Fume Hood Open Wet Lab 517	8
9	Fume Hood Open Wet Lab 517	20 A	1			1000...	720 VA			1	20 A	Plug-Thru Dry Lab 516	10
11	Fume Hood Open Wet Lab 517	20 A	1					1000...	900 VA	1	20 A	Receptacle Dry Lab 516	12
13	Fume Hood Open Wet Lab 517	20 A	1	1000...	540 VA					1	20 A	Receptacle, Poke-thru Dry Lab 516	14
15	Fume Hood Open Wet Lab 517	20 A	1			1000...	720 VA			1	20 A	Wiremold Open Wet Lab 517	16
17	Receptacle Open Wet Lab 517	20 A	1					360 VA	720 VA	1	20 A	Wiremold Open Wet Lab 517	18
19	Wiremold OPEN WET LAB 517	20 A	1	360 VA	720 VA					1	20 A	Wiremold Open Wet Lab 517	20
21	Receptacle OPEN WET LAB 517	20 A	1			720 VA	720 VA			1	20 A	Wiremold Open Wet Lab 517	22
23	Equipment OPEN WET LAB 517	20 A	1					360 VA	720 VA	1	20 A	Wiremold Open Wet Lab 517	24
25	Equipment OPEN WET LAB 517	20 A	1	360 VA	720 VA					1	20 A	Wiremold Open Wet Lab 517	26
27	Equipment OPEN WET LAB 517	20 A	1			360 VA	0 VA			1	20 A	Spare	28
29	Receptacle LAB SUPPORT 512	20 A	1					360 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	6420 VA		6600 VA		5780 VA					
			Total Amps:	54 A		56 A		48 A					

Branch Panel: XP257

Location: OPEN WET LAB 517 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Jbox Open Wet Lab 517	20 A	1	360 VA	1000...					1	20 A	Fume Hood Open Wet Lab 517	2
3	Jbox Open Wet Lab 517	20 A	1			360 VA	1000...			1	20 A	Fume Hood Open Wet Lab 517	4
5	Jbox Open Wet Lab 517	20 A	1					360 VA	1000...	1	20 A	Fume Hood Open Wet Lab 517	6
7	Jbox Open Wet Lab 517	20 A	1	360 VA	1000...					1	20 A	Fume Hood Open Wet Lab 517	8
9	Fume Hood Open Wet Lab 517	20 A	1			1000...	720 VA			1	20 A	Wiremold Open Wet Lab 517	10
11	Fume Hood Open Wet Lab 517	20 A	1					1000...	720 VA	1	20 A	Wiremold Open Wet Lab 51	12
13	Fume Hood Open Wet Lab 517	20 A	1	1000...	900 VA					1	20 A	Wiremold Open Wet Lab 51	14
15	Fume Hood Open Wet Lab 517	20 A	1			1000...	810 VA			1	20 A	Wiremold Open Wet Lab 517	16
17	Wiremold Open Wet Lab 517	20 A	1					810 VA	720 VA	1	20 A	Wiremold Open Wet Lab 517	18
19	Wiremold Open Wet Lab 517	20 A	1	720 VA	720 VA					1	20 A	Wiremold Non-Flammable Chemical Storage 517B	20
21	Centrifuge SHARED EQUIPMENT RM 513	20 A	1			1800...	720 VA			1	20 A	Wiremold Non-Flammable Chemical Storage 517B	22
23	Refrigerator SHARED EQUIPMENT RM 513	20 A	1					600 VA	600 VA	1	20 A	Refrigerator SHARED EQUIPMENT RM 513	24
25					400 VA					1	20 A	Power CYLINDER STO 517A	26
27							0 VA			1	20 A	Spare	28
29									0 VA	1	20 A	Spare	30
31	Equipment OPEN WET LAB 517	20 A	1	360 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	6820 VA		7410 VA		5810 VA					
			Total Amps:	58 A		63 A		48 A					

Branch Panel: XP258

Location: OPEN WET LAB 517 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Jbox Open Wet Lab 517	20 A	1	360 VA	360 VA					1	20 A	Wiremold OPEN WET LAB 517	2
3	Jbox Open Wet Lab 517	20 A	1			360 VA	720 VA			1	20 A	Receptacle OPEN WET LAB 517	4
5	Jbox Open Wet Lab 517	20 A	1					360 VA	0 VA	1	20 A	Spare	6
7	Jbox Open Wet Lab 517	20 A	1	360 VA	720 VA					1	20 A	Wiremold Open Wet Lab 517	8
9	Wiremold Open Wet Lab 517	20 A	1			720 VA	900 VA			1	20 A	Wiremold Open Wet Lab 517	10
11	Wiremold Open Wet Lab 517	20 A	1					720 VA	720 VA	1	20 A	Wiremold Open Wet Lab 517	12
13	Power CYL STO 517E	20 A	1	400 VA	720 VA					1	20 A	Wiremold Open Wet Lab 517	14
15	Equipment OPEN WET LAB 517	20 A	1			360 VA	720 VA			1	20 A	Wiremold Open Wet Lab 517	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
			Total Load:	2920 VA		3780 VA		1800 VA					
			Total Amps:	26 A		33 A		15 A					

Branch Panel: XP251

Location: OPEN WET LAB 509 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Jbox Open Wet Lab 509	20 A	1	360 VA	1000...					1	20 A	Fume Hood Open Wet Lab 509	2
3	Jbox Open Wet Lab 509	20 A	1			360 VA	1000...			1	20 A	Fume Hood Open Wet Lab 509	4
5	Jbox Open Wet Lab 509	20 A	1					360 VA	1000...	1	20 A	Fume Hood Open Wet Lab 509	6
7	Jbox Open Wet Lab 509	20 A	1	360 VA	1000...					1	20 A	Fume Hood Open Wet Lab 509	8
9	Fume Hood Open Wet Lab 509	20 A	1			1000...	720 VA			1	20 A	Wiremold Open Wet Lab 509	10
11	Fume Hood Open Wet Lab 509	20 A	1					1000...	720 VA	1	20 A	Wiremold Open Wet Lab 509	12
13	Fume Hood Open Wet Lab 509	20 A	1	1000...	360 VA					1	20 A	Receptacle Open Wet Lab 5	14
15	Fume Hood Open Wet Lab 509	20 A	1			1000...	720 VA			1	20 A	Wiremold Open Wet Lab 509	16
17	Receptacle Open Wet Lab 509	20 A	1					720 VA	720 VA	1	20 A	Wiremold Open Wet Lab 509	18
19	Wiremold Open Wet Lab 509	20 A	1	720 VA	900 VA					1	20 A	Wiremold Open Wet Lab 509	20
21	Wiremold Open Wet Lab 509	20 A	1			720 VA	720 VA			1	20 A	Wiremold Non-Flammable Chemical Storage 509C	22
23	Wiremold Open Wet Lab 509	20 A	1					720 VA	720 VA	1	20 A	Wiremold Non-Flammable Chemical Storage 509C	24
25	Wiremold Support 513A	20 A	1	540 VA	540 VA					1	20 A	Wiremold Support 513A	26
27	FCU-6 Electrical Closet 515	20 A	3			420 VA	600 VA			1	20 A	Refrigerator SHARED EQUIPMENT RM 513	28
29	--	--	--					420 VA	600 VA	1	20 A	Refrigerator SHARED EQUIPMENT RM 513	30
31	--	--	--	420 VA	400 VA					1	20 A	Power CYLINDER STO 509D	32
33	Wiremold OPEN WET LAB 509	20 A	1			180 VA	0 VA			1	20 A	Spare	34
35	Equipment OPEN WET LAB 509	20 A	1					360 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	7600 VA		7440 VA		7340 VA					
			Total Amps:	63 A		62 A		61 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	11460 VA	65.00%	7449 VA		
Receptacle	10920 VA	95.79%	10460 VA	Total Conn. Load:	22380 VA
				Total Est. Demand:	17909 VA
				Total Conn.:	62 A
				Total Est. Demand:	50 A

Branch Panel: XP252

Location: OPEN WET LAB 509 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Jbox Open Wet Lab 509	20 A	1	360 VA	1000...					1	20 A	Fume Hood Open Wet Lab 509	2
3	Jbox Open Wet Lab 509	20 A	1			360 VA	1000...			1	20 A	Fume Hood Open Wet Lab 509	4
5	Jbox Open Wet Lab 509	20 A	1					360 VA	1000...	1	20 A	Fume Hood Open Wet Lab 509	6
7	Jbox Open Wet Lab 509	20 A	1	360 VA	1000...					1	20 A	Fume Hood Open Wet Lab 509	8
9	Fume Hood Open Wet Lab 509	20 A	1			1000...	720 VA			1	20 A	Wiremold Open Wet Lab 509	10
11	Fume Hood Open Wet Lab 509	20 A	1					1000...	900 VA	1	20 A	Wiremold Open Wet Lab 509	12
13	Fume Hood Open Wet Lab 509	20 A	1	1000...	810 VA					1	20 A	Wiremold Open Wet Lab 509	14
15	Fume Hood Open Wet Lab 509	20 A	1			1000...	720 VA			1	20 A	Wiremold Open Wet Lab 509	16
17	Wiremold Open Wet Lab 509	20 A	1					720 VA	810 VA	1	20 A	Wiremold Open Wet Lab 509	18
19	Wiremold Open Wet Lab 509	20 A	1	900 VA	720 VA					1	20 A	Wiremold Open Wet Lab 509	20
21	Refrigerator Shared Equipt. rm. 510	20 A	1			600 VA							22
23	Equipment OPEN WET LAB 509	20 A	1					360 VA	0 VA	1	20 A	Spare	24
25	Equipment OPEN WET LAB 509	20 A	1	360 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	6510 VA		5400 VA		5150 VA					
			Total Amps:	55 A		45 A		43 A					

Branch Panel: XP253

Location: OPEN WET LAB 509 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Wiremold OPEN WET LAB 509	20 A	1	360 VA	720 VA					1	20 A	Wiremold Lab Support 509	2
3	Receptacle OPEN WET LAB 509	20 A	1			720 VA	720 VA			1	20 A	Wiremold Lab Support 509	4
5	Wiremold LAB SUPPORT 512	20 A	1					540 VA	900 VA	1	20 A	Wiremold Lab Support 509	6
7	Wiremold Lab Support 509	20 A	1	720 VA	720 VA					1	20 A	Wiremold Lab Support 509	8
9	Wiremold Lab Support 509	20 A	1			720 VA	720 VA			1	20 A	Wiremold Lab Support 509	10
11	Wiremold OPEN WET LAB 509	20 A	1					360 VA	900 VA	1	20 A	Wiremold Lab Support 511	12
13	Receptacle OPEN WET LAB 509	20 A	1	720 VA	900 VA					1	20 A	Wiremold Lab Support 511	14
15	Spare	20 A	1			0 VA	900 VA			1	20 A	Wiremold Lab Support 511	16
17	Wiremold Lab Support 511	20 A	1					540 VA	540 VA	1	20 A	Wiremold Lab Support 512	18
19	Wiremold Lab Support 511	20 A	1	540 VA	540 VA					1	20 A	Wiremold Lab Support 512	20
21	Wiremold Lab Support 512	20 A	1			900 VA	400 VA			1	20 A	Power CYL STO 509B	22
23	Wiremold Lab Support 512	20 A	1					900 VA	0 VA	1	20 A	Spare	24
25	wt	20 A	1	900 VA	0 VA					1	20 A	Spare	26
27	Receptacle LAB SUPPORT 512	20 A	1			360 VA	0 VA			1	20 A	Spare	28
29	Receptacle LAB SUPPORT 511	20 A	1					360 VA	0 VA	1	20 A	Spare	30
31	Receptacle LAB SUPPORT 512	20 A	1	540 VA	0 VA					1	20 A	Spare	32
33	Wiremold LAB SUPPORT 511	20 A	1			540 VA	0 VA			1	20 A	Spare	34
35	Receptacle LAB SUPPORT 511	20 A	1					540 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	6660 VA		5980 VA		5580 VA					
			Total Amps:	56 A		50 A		47 A					

Branch Panel: XP254

Location: OPEN WET LAB 509 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Jbox Open Wet Lab 509	20 A	1	360 VA	360 VA					1	20 A	Wiremold OPEN WET LAB 509	2
3	Jbox Open Wet Lab 509	20 A	1			360 VA	720 VA			1	20 A	Receptacle OPEN WET LAB 509	4
5	Jbox Open Wet Lab 509	20 A	1					360 VA	0 VA	1	20 A	Spare	6
7	Jbox Open Wet Lab 509	20 A	1	360 VA	720 VA					1	20 A	Wiremold Open Wet Lab 509	8
9	Receptacle Open Wet Lab 509	20 A	1			720 VA	540 VA			1	20 A	Receptacle Open Wet Lab 509	10
11	Wiremold Open Wet Lab 509	20 A	1					720 VA	420 VA	3	20 A	FCU-6 Meeting/Breakout Space 505	12
13	Wiremold Open Wet Lab 509	20 A	1	900 VA	420 VA					--	--	--	14
15	Wiremold Open Wet Lab 509	20 A	1			720 VA	420 VA			--	--	--	16
17	FCU-7 Pantry/Workroom 504	20 A	3					420 VA	420 VA	3	20 A	FCU-7 Corridor & Informal Study C5A	18
19	--	--	--	420 VA	420 VA					--	--	--	20
21	--	--	--			420 VA	420 VA			--	--	--	22
23	Jbox Open Wet Lab 509	20 A	1					360 VA	0 VA	1	20 A	Spare	24
25	Jbox Open Wet Lab 509	20 A	1	360 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	4320 VA		4320 VA		2700 VA					
			Total Amps:	38 A		38 A		23 A					

Distribution Panel: DP25

Location: ELECTRICAL CLOSET 515 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MCB
Enclosure: Type 1 | **Neutral:** Full | **Mains Rating:** 400 A
Breakers: 0 | **Ground Bus:** Yes | **MCB Rating:** 250 A

Notes:

CKT	Circuit Description	Frame Size	Trip Rating	# of Poles	Load	Feeder Size	Remarks
1	RP25	100 A	100 A	3	14 kVA		
2	XP251	100 A	100 A	3	22 kVA		
3	XP252	100 A	100 A	3	17 kVA		
4	XP253	100 A	100 A	3	18 kVA		
5	XP254	100 A	100 A	3	11 kVA		
6	XP255	100 A	100 A	3	14 kVA		
7	XP256	100 A	100 A	3	19 kVA		
8	XP257	100 A	100 A	3	20 kVA		
9	XP258	100 A	100 A	3	9 kVA		
10	XP259	100 A	100 A	3	8 kVA		
11	XP2510	100 A	100 A	3	16 kVA		
12	Control Panel Shared Equipment Rm. 510	100 A	40 A	3	15 kVA		
13	Condensate Unit (1.5HP) COLD ROOM 510A	100 A	25 A	3	1 kVA		
14	Spare	--	100 A	3	0 kVA		100AF
15	Spare	--	100 A	3	0 kVA		100AF
16	Space	--	--	--	0 kVA		--
17	Space	--	--	--	0 kVA		--
18	Space	--	--	--	0 kVA		--
				Total Conn. Load:	183 kVA		
				Ttl Demand Load:	116 kVA		
				Total Demand Amps:	322 A		

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	75327 VA	65.00%	48963 VA		
Other	720 VA	100.00%	720 VA	Total Conn. Load:	183387 VA
Power	15360 VA	100.00%	15360 VA	Total Est. Demand:	116033 VA
Receptacle	91980 VA	55.44%	50990 VA	Total Conn.:	509 A
				Total Est. Demand:	322 A

Notes:

Distribution Panel: EQDP25

Location: ELECTRICAL CLOSET 508 | **Volts:** 120/208 Wye | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MCB
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 225 A
Breakers: 0 | **Ground Bus:** | **MCB Rating:** 150 A

Notes:

CKT	Circuit Description	Frame Size	Trip Rating	# of Poles	Load	Feeder Size	Remarks
1	EQ251	100 A	100 A	3	17 kVA		
2	EQ252	400 A	20 A	3	33 kVA		
3	EQ253	400 A	20 A	3	32 kVA		
4	Spare	--	0 A	3	0 kVA		100AF
5	Spare	--	0 A	3	0 kVA		100AF
6	Space	--	--	--	0 kVA		--
7	Space	--	--	--	0 kVA		--
8	Space	--	--	--	0 kVA		--
9	Space	--	--	--	0 kVA		--
10	Space	--	--	--	0 kVA		--
11	Space	--	--	--	0 kVA		--
12	Space	--	--	--	0 kVA		--
				Total Conn. Load:	82416.0 VA		
				Ttl Demand Load:	54.781 kVA		
				Total Demand Amps:	152.058 A		

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	57156 VA	65.00%	37151 VA		
Receptacle	25260 VA	69.79%	17630 VA	Total Conn. Load:	82416 VA
				Total Est. Demand:	54781 VA
				Total Conn.:	229 A
				Total Est. Demand:	152 A

Notes:

Branch Panel: UPS25

Location: IDF 521 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 60 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RACK 1 DATA CLOSET 521	30 A	3	2340...	2340...					3	30 A	RACK 1 DATA CLOSET 521	2
3	--	--	--			2340...	2340...			--	--	--	4
5	--	--	--					2340...	2340...	--	--	--	6
7	RACK 2 DATA CLOSET 521	20 A	1	360 VA	360 VA					1	20 A	VOICE DATA CLOSET 521	8
9	VOICE DATA CLOSET 521	20 A	1			360 VA	0 VA			1	20 A	Spare	10
11	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	12
			Total Load:	5400 VA		5040 VA		4680 VA					
			Total Amps:	45 A		42 A		39 A					

△1

GENERAL NOTES:

1. SPARE CIRCUIT BREAKERS IN ALL PANELS UPDATED VIA ADDENDUM #1.

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NO.	DATE	COMMENTS
1	2015-03-23	BID ADDENDUM 01

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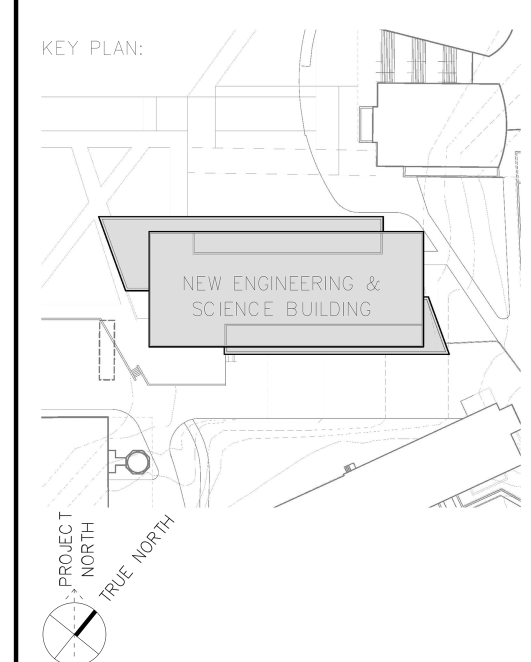
KEY PLAN:



PROJECT:
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:
ELECTRICAL PANEL SCHEDULES

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

E-610

CONFORMED SET: 05/29/2015

Branch Panel: RP25

Location: ELECTRICAL CLOSET 515
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208V
Phases: 3
Wires: 4
Neutral:
Ground Bus:

A.I.C.:
A.S.C.:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle Tech Office/Storage 503	20 A	1	900 VA	720 VA					1	20 A	Receptacle DATA CLOSET 521	2
3	Receptacle Janitor 518, RR5A, RR5B	20 A	1			540 VA	500 VA			1	20 A	EWC Corridor & Informal Study C5A	4
5	Receptacle Pantry/Work rm. 504	20 A	1					180 VA	900 VA	1	20 A	Receptacle Meeting/Breakout Space 505	6
7	Receptacle Pantry/Work rm. 504	20 A	1	360 VA	540 VA					1	20 A	Receptacle Dry Lab 506	8
9	Receptacle Corridor & Informal Study C5A	20 A	1			720 VA	360 VA			1	20 A	Poke-Thru Meeting/Breakout Space 505	10
11	Poke-Thru Dry Lab 506	20 A	1					720 VA	540 VA	1	20 A	Receptacle Dry Lab 506	12
13	Receptacle Dry Lab 507	20 A	1	720 VA	540 VA					1	20 A	Receptacle Dry Lab 507	14
15	Receptacle Corridor C5B, Open Wet Lab 509	20 A	1			1260...	540 VA			1	20 A	Receptacle Dry Lab 507	16
17	Poke- Thru MEETING/BREAKOUT SPACE 505	20 A	1					360 VA	360 VA	1	20 A	Receptacle Corridor/Informal Study C5C	18
19	Receptacle MEETING/BREAKOUT SPACE 505	20 A	1	540 VA	360 VA					1	20 A	Quad CATV wall DATA CLOSET 521	20
21	Receptacle Open Wet Lab 517	20 A	1			1080...	360 VA			1	20 A	Receptacle BUILDING STORAGE 522	22
23	Poke-Thru ELEV LOBBY C5A	20 A	1					720 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	4680 VA		5360 VA		3780 VA					
			Total Amps:	40 A		46 A		32 A					

Branch Panel: L45

Location: ELECTRICAL CLOSET 515
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 277/480V
Phases: 3
Wires: 4
Neutral:
Ground Bus:

A.I.C.:
A.S.C.:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Light Rms 503, 504, 506, 507, 522	20 A	1	370 VA	1132...					1	20 A	Light Rms 509C.D, 513A, 516,517A,B	2
3	Light Rms 509A, 511, 512, 517C,D	20 A	1			1215...	2424...			1	20 A	Lighting Zones Z1, Z2	4
5	Lighting - Dwelling Unit OPEN WET LAB 517	20 A	1					464 VA	1311...	1	20 A	Lighting Zones Z7,Z8,Z9,Z10,Z11,Z12,Z15,Z16,Z17	6
7	Lighting Zone Z5	20 A	1	1764...	2127...					1	20 A	Lighting Zone Z3	8
9	Lighting Zone Z6	20 A	1			1764...	1911...			1	20 A	Other	10
11	Lighting Zones Z13,Z14, Z20, Z21, Z27, Z28	20 A	1					2228...	540 VA	1	20 A	Lighting Zones Z23,Z24,Z25,Z26	12
13	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	14
15	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
			Total Load:	5394 VA		7314 VA		4542 VA					
			Total Amps:	20 A		27 A		16 A					

Branch Panel: EQ251

Location: ELECTRICAL CLOSET 508
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208V
Phases: 3
Wires: 4
Neutral:
Ground Bus:

A.I.C.:
A.S.C.:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle Electrical Closet 508	20 A	1	180 VA	180 VA					1	20 A	Receptacle Lab Support 517D	2
3	Refrigerator Open Wet Lab 509	20 A	1			1200...	1200...			1	20 A	Refrigerator Open Wet Lab 509	4
5	Refrigerator Open Wet Lab 509	20 A	1					1200...	1200...	1	20 A	Refrigerator Open Wet Lab 509	6
7	Refrigerator Lab Support 509	20 A	1	1200...	1200...					1	20 A	Refrigerator Lab Support 509	8
9	FCU-1 DATA CLOSET 521	15 A	3			900 VA	1500...			1	20 A	Equipment DATA CLOSET 521	10
11	--	--	--					900 VA	1500...	1	20 A	Equipment DATA CLOSET 521	12
13	--	--	--	900 VA	360 VA					1	20 A	Receptacle DATA CLOSET 521	14
15	ATC CORRIDOR C5B	20 A	1			250 VA	250 VA			1	20 A	ATC ELEV LOBBY C5A	16
17	ATC CORRIDOR C5B	20 A	1					250 VA	250 VA	1	20 A	ATC ELEV LOBBY C5A	18
19	FCU-4 STAIR A S7A	20 A	1	1392...	1392...					1	20 A	FCU-4 STAIR A S5A	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
			Total Load:	6804 VA		5300 VA		5300 VA					
			Total Amps:	57 A		44 A		44 A					

Branch Panel: EQ252

Location: OPEN WET LAB 509
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208V
Phases: 3
Wires: 4
Neutral:
Ground Bus:

A.I.C.:
A.S.C.:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	-80C Freezer LAB SUPPORT 512	20 A	2	1040...	1920...					1	30 A	-80C Freezer SHARED EQUIPMENT ROOM 510	2
3	--	--	--			1040...	1000...			1	20 A	-20C Freezer SHARED EQUIPMENT ROOM 510	4
5	-80C Freezer LAB SUPPORT 512	30 A	1					1920...	1040...	2	20 A	-80C Freezer SHARED EQUIPMENT ROOM 510	6
7	-80C Freezer SHARED EQUIPMENT RM 513	30 A	1	1920...	1040...					--	--	--	8
9	-80C Freezer SHARED EQUIPMENT RM 513	20 A	2			1040...	1920...			1	30 A	-80C Freezer SHARED EQUIPMENT ROOM 510	10
11	--	--	--					1040...	1000...	1	20 A	-20C Freezer SHARED EQUIPMENT ROOM 510	12
13	Receptacle Electrical Closet 515	20 A	1	180 VA	1200...					1	20 A	Refrigerator Open Wet Lab 509	14
15	Refrigerator Open Wet Lab 509	20 A	1			1200...	1200...			1	20 A	Refrigerator Open Wet Lab 509	16
17	Refrigerator Open Wet Lab 509	20 A	1					1200...	1040...	2	20 A	-80C Freezer LAB SUPPORT 511	18
19	-80C Freezer LAB SUPPORT 511	20 A	1	1920...	1040...					--	--	--	20
21	-80C Freezer SHARED EQUIPMENT RM 513	30 A	1			1920...	1000...			1	20 A	-20C Freezer SHARED EQUIPMENT RM 513	22
23	-20C Freezer SHARED EQUIPMENT RM 513	20 A	1					1000...	250 VA	1	20 A	ATC OPEN WET LAB 509	24
25	ATC OPEN WET LAB 509	20 A	1	250 VA	250 VA					1	20 A	ATC OPEN WET LAB 509	26
27	ATC OPEN WET LAB 509	20 A	1			250 VA	1392...			1	20 A	FCU-4 Space B108	28
29	Receptacle CGI SERVER-1 322-1	20 A	1					360 VA	420 VA	3	15 A	FCU-6 Shared Equipt. rm. 510	30
31	Spare	20 A	1	0 VA	420 VA					--	--	--	32
33	Spare	20 A	1			0 VA	420 VA			--	--	--	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	11180 VA		12382 VA		9270 VA					
			Total Amps:	96 A		106 A		77 A					

Branch Panel: EQ253

Location: OPEN WET LAB 517
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208V
Phases: 3
Wires: 4
Neutral:
Ground Bus:

A.I.C.:
A.S.C.:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	-80C Freezer SHARED EQUIPMENT ROOM 510	20 A	2	1040...	1040...					2	20 A	-80C Freezer SHARED EQUIPMENT ROOM 510	2
3	--	--	--			1040...	1040...			--	--	--	4
5	-20C Freezer SHARED EQUIPMENT ROOM 510	20 A	1					1000...	1920...	1	30 A	-80C Freezer SHARED EQUIPMENT ROOM 510	6
7	-20C Freezer SHARED EQUIPMENT ROOM 510	20 A	1	1000...	1920...					1	30 A	-80C Freezer SHARED EQUIPMENT ROOM 510	8
9	Refrigerator Open Wet Lab 517	20 A	1			1200...	1200...			1	20 A	Refrigerator Open Wet Lab 517	10
11	Refrigerator Open Wet Lab 517	20 A	1					1200...	1200...	1	20 A	Refrigerator Open Wet Lab 517	12
13	Refrigerator Open Wet Lab 517	20 A	1	1200...	1200...					1	20 A	Refrigerator Open Wet Lab 517	14
15	Refrigerator Open Wet Lab 517	20 A	1			1200...	1200...			1	20 A	Refrigerator Open Wet Lab 517	16
17	Refrigerator Open Wet Lab 517	20 A	1					1200...	1200...	1	20 A	Refrigerator Open Wet Lab 517	18
19	Spare	0 A	1	0 VA	0 VA					1	0 A	Spare	20
21	Spare	0 A	1			0 VA	1920...			1	30 A	-80C Freezer SHARED EQUIPMENT RM 513	22
23	-80C Freezer SHARED EQUIPMENT RM 513	20 A	2					1040...	1920...	1	30 A	-80C FreezerSHARED EQUIPMENT RM 513	24
25	--	--	--	1040...	1000...					1	20 A	-20C Freezer SHARED EQUIPMENT RM 513	26
27	-20C Freezer SHARED EQUIPMENT RM 513	20 A	1			1000...	250 VA			1	20 A	ATC OPEN WET LAB 517	28
29	ATC OPEN WET LAB 517	20 A	1					250 VA	250 VA	1	20 A	ATC OPEN WET LAB 517	30
31	ATC OPEN WET LAB 517	20 A	1	250 VA	420 VA					3	20 A	FCU-6 Shared Equipt. rm. 513	32
33	Spare	20 A	1			0 VA	420 VA			--	--	--	34
35	Spare	20 A	1					0 VA	420 VA	--	--	--	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	10110 VA		10470 VA		11600 VA					
			Total Amps:	84 A		88 A		97 A					

GENERAL NOTES:

1. SPARE CIRCUIT BREAKERS IN ALL PANELS UPDATED VIA ADDENDUM #1.

Branch Panel: XP259

Location: OPEN WET LAB 517
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208V
Phases: 3
Wires: 4
Neutral:
Ground Bus:

A.I.C.:
A.S.C.:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Wiremold OPEN WET LAB 517	20 A	1	360 VA	720 VA					1	20 A	Wiremold Open Wet Lab 517	2
3	Receptacle OPEN WET LAB 517	20 A	1			720 VA	900 VA			1	20 A	Wiremold Open Wet Lab 517	4
5	Spare	20 A	1					0 VA	720 VA	1	20 A	Wiremold Open Wet Lab 517	6
7	Spare	20 A	1	0 VA	900 VA					1	20 A	Wiremold Open Wet Lab 517	8
9	Receptacle, Wiremold Lab Support 517D	20 A	1			720 VA	400 VA			1	20 A	Power CYLINDER STO 517C	10
11	Receptacle SHARED EQUIPMENT ROOM 510	20 A	1					600 VA	0 VA	1	20 A	Spare	12
13	Equipment SHARED EQUIPMENT ROOM 510	20 A	1	1800...	0 VA					1	20 A	Spare	14
15	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
			Total Load:	3780 VA		2740 VA		1320 VA					
			Total Amps:	33 A		25 A		11 A					

Branch Panel: XP2510

Location: OPEN WET LAB 517
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208V
Phases: 3
Wires: 4
Neutral:
Ground Bus:

A.I.C.:
A.S.C.:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Fume Hood Open Wet Lab 517	20 A	1	1000...	1000...					1	20 A	Fume Hood Open Wet Lab 517	2
3	Fume Hood Open Wet Lab 517	20 A	1			1000...	1000...			1	20 A	Fume Hood Open Wet Lab 517	4
5	Fume Hood Open Wet Lab 517	20 A	1					1000...	1000...	1	20 A	Fume Hood Open Wet Lab 517	6
7	Fume Hood Open Wet Lab 517	20 A	1	1000...	1000...					1	20 A	Fume Hood Open Wet Lab 517	8
9	Wiremold Open Wet Lab 517	20 A	1			900 VA	720 VA			1	20 A	Wiremold Open Wet Lab 517	10
11	Wiremold Open Wet Lab 517	20 A	1					900 VA	720 VA	1	20 A	Wiremold Open Wet Lab 517	12
13	Wiremold Open Wet Lab 517	20 A	1	900 VA	720 VA					1	20 A	Wiremold Open Wet Lab 517	14
15	Wiremold Open Wet Lab 517	20 A	1			720 VA	720 VA			1	20 A	Wiremold Open Wet Lab 517	16
17	Wiremold Open Wet Lab 517	20 A	1					720 VA	540 VA	1	20 A	Receptacle Open Wet Lab 517	18
19				0 VA						1	20 A	Spare	20
21						0 VA				1	20 A	Spare	22
23									0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total Load:	5620 VA		5060 VA		4880 VA					
			Total Amps:	47 A		42 A		41 A					

Branch Panel: LS45

Location: ELECTRICAL CLOSET 508
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4
Neutral:
Ground Bus:

A.I.C.:
A.S.C.:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Penthouse Em Lighting	20 A	1	1729...	100 VA					1	20 A	Penthouse Exit Lighting	2
3	4th Floor Exit Lighting	20 A	1			160 VA	1826...			1	20 A	4th Floor EM Lighting	4
5	5th Floor Exit Lighting	20 A	1					160 VA	1654...	1	20 A	5th Floor Em Lighting	6
7	Lighting - Dwelling Unit OPEN WET LAB 509	20 A	1	845 VA	70 VA					1	20 A	Lighting - Exterior	8
9	Lighting - Dwelling Unit WET LAB 409	20 A	1			348 VA	319 VA			1	20 A	Lighting - Dwelling Unit OPEN WET LAB 517	10
11	Lighting - Dwelling Unit WET LAB 416	20 A	1					594 VA	1250...	3	20 A	PANEL LS25 VIA 30 kVA TRANSFORMER	12
13	Spare	20 A	1	0 VA	650 VA					--	--	--	14
15	Spare	20 A	1			0 VA	750 VA			--	--	--	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
			Total Load:	3394 VA		3403 VA		3658 VA					
			Total Amps:	12 A		12 A		13 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	1650 VA	65.00%	1073 VA		
Lighting	3535 VA	125.00%	4419 VA	**Total Conn. Load:**	9957 VA
Lighting - Dwelling Unit	3537 VA	90.13%	3188 VA	**Total Est. Demand:**	9967 VA
Lighting - Exterior	210 VA	125.00%	263 VA	**Total Conn.:**	12 A
Other	1025 VA	100.00%	1025 VA	**Total Est. Demand:**	12 A

Branch Panel: LS25

Location: CORRIDOR C5B
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Neutral:
Ground Bus:

A.I.C.:
A.S.C.:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Fire Smoke Damper (4th Floor)	20 A	1	750 VA	500 VA					1	20 A	FATC (4th Floor)	2
3	FATC (5th Floor)	20 A	1			500 VA	150 VA			1	20 A	Fire Smoke Damper (5th Floor)	4
5	Fire Smoke Damper MECH. PENT. PH1	20 A	1					750 VA	0 VA	1	20 A	Spare	6
7	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	8
9	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	10
11	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	12
13	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	14
15	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
			Total Load:	1250 VA		650 VA		750 VA					
			Total Amps:	11 A		5 A		6 A					

CONFORMED SET: 05/29/2015

UNIVERSITY OF CONNECTICUT

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ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	2015-03-23	BID ADDENDUM 01

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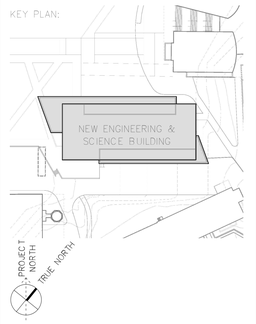
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:

ELECTRICAL PANEL SCHEDULES

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

E-611

Distribution Panel: DP4PH

Location: EQUIP PH6 | **Volts:** 277/480V | **A.I.C.:** 65,000
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Breakers: 0 | **Ground Bus:** | **MCB Rating:**

Notes:

CKT	Circuit Description	Frame Size	Trip Rating	# of Poles	Load	Feeder Size	Remarks
1	AHU-2 (50HP)	225 A	150 A	3	37 kVA		
2	AHU-3 (50HP)	225 A	150 A	3	37 kVA		
3	AHU-4 (50HP)	225 A	150 A	3	37 kVA		
4	SF-3 MECHANICAL PENTHOUSE PH1	100 A	15 A	3	1 kVA		
5	AHU-1 (30HP SUPPLY)	100 A	100 A	3	22 kVA		
6	DUPLEX COMPRESSED AIR SYSTEM	100 A	75 A	3	22 kVA		
7	DUPLEX VACUUM SYSTEM	100 A	50 A	3	15 kVA		
8	AHU-1 (15HP RETURN)	100 A	50 A	3	11 kVA		
9	PRE-RO RECIRC. MECH. PH. PH1	100 A	15 A	3	1 kVA		
10	RO SYSTEM MECH. PH. PH1	100 A	30 A	3	7 kVA		
11	RO PUMP MECHANICAL PENTHOUSE PH1	100 A	20 A	3	4 kVA		
12	EX-5 (40HP) MECH. RM. PH2	225 A	125 A	3	30 kVA		
13	EX-6 (40HP) MECH. RM. PH2	225 A	125 A	3	30 kVA		
14	EX-7 (40HP) MECH. RM. PH2	225 A	125 A	3	30 kVA		
15	EX-8 (40HP) MECH. RM. PH2	225 A	125 A	3	30 kVA		
16	HWP-7 (7.5HP) near Equip. PH6	100 A	20 A	1	9 kVA		
17	HWP-8 (7.5HP) near Equip. PH6	100 A	20 A	1	9 kVA		
18	TX-1 (5HP) ROOF	100 A	15 A	3	1 kVA		
19	Spare	--	100 A	3	0 kVA		100AF
20	Spare	--	100 A	3	0 kVA		100AF
21	Space	--	--	--	0 kVA		--
22	Space	--	--	--	0 kVA		--
23	Space	--	--	--	0 kVA		--
24	Space	--	--	--	0 kVA		--
25	Space	--	--	--	0 kVA		--
26	Space	--	--	--	0 kVA		--
27	Space	--	--	--	0 kVA		--
28	Space	--	--	--	0 kVA		--
29	Space	--	--	--	0 kVA		--
30	Space	--	--	--	0 kVA		--

Total Conn. Load: 333 kVA
Ttl Demand Load: 216 kVA
Total Demand Amps: 260 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	333058 VA	65.00%	216488 VA		
				Total Conn. Load:	333058 VA
				Total Est. Demand:	216488 VA
				Total Conn.:	401 A
				Total Est. Demand:	260 A

Notes:

Distribution Panel: EQDP4PH

Location: EQUIP PH5 | **Volts:** 277/480V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** 225A | **Mains Rating:** 225 A
Breakers: 0 | **Ground Bus:** | **MCB Rating:** 100 A

Notes:

CKT	Circuit Description	Frame Size	Trip Rating	# of Poles	Load	Feeder Size	Remarks
1	CT-1 (20HP)	100 A	60 A	3	15 kVA		SEE MOTOR WIRING SCHEDULE
2	CWP-1 (7.5HP)	100 A	20 A	3	7 kVA		SEE MOTOR WIRING SCHEDULE
3	CWP-2 (7.5HP)	100 A	20 A	3	7 kVA		SEE MOTOR WIRING SCHEDULE
4	Spare	--	100 A	3	0 kVA		
5	Spare	--	100 A	3	0 kVA		
6	Spare	--	100 A	3	0 kVA		
7	Pre-Action System (1HP)	100 A	15 A	3	1 kVA		SEE MOTOR WIRING SCHEDULE
8	HWP-9 (2HP) MECHANICAL PENTHOUSE...	100 A	15 A	3	3 kVA		SEE MOTOR WIRING SCHEDULE
9	HWP-10 (2HP) MECHANICAL PENTHOUS...	100 A	15 A	3	3 kVA		SEE MOTOR WIRING SCHEDULE
10	HWP-11 (2HP) MECHANICAL PENTHOUS...	100 A	15 A	3	3 kVA		SEE MOTOR WIRING SCHEDULE
11	HWP-12 (2HP) MECHANICAL PENTHOUS...	100 A	15 A	3	3 kVA		SEE MOTOR WIRING SCHEDULE
12	Space	--	--	--	0 kVA		--
13	Space	--	--	--	0 kVA		--
14	Space	--	--	--	0 kVA		--
15	Space	--	--	--	0 kVA		--
16	Space	--	--	--	0 kVA		--
17	Space	--	--	--	0 kVA		--
18	Space	--	--	--	0 kVA		--

Total Conn. Load: 41877.7 VA
Ttl Demand Load: 27.221 kVA
Total Demand Amps: 32.741 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	41878 VA	65.00%	27221 VA		
				Total Conn. Load:	41878 VA
				Total Est. Demand:	27221 VA
				Total Conn.:	50 A
				Total Est. Demand:	33 A

Notes:

Branch Panel: R2PH

Location: VESTIBULE B VPHB | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MCB
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle MECHANICAL PENTHOUSE PH1	20 A	1	360 VA	180 VA		1	20 A	Receptacle AHU-1 MECH. PENT. PH1	2
3	Exterior Receptacle	20 A	1		360 VA	720 VA	1	20 A	Exterior Receptacle, Receptacle Mech. Rm. PH2	4
5	Receptacle EQUIP PH5, PH1	20 A	1			540 VA 180 VA	1	20 A	Exterior Receptacle, Receptacle Equip PH6	6
7	Receptacle AHU-2 & AHU-3 MECH. PENT. PH1	20 A	1	360 VA	360 VA		1	20 A	Receptacle AHU-4 & AHU-5 MECH. PENT. PH1	8
9	Lighting AHU-1 MECH. PENT. PH1	20 A	1		100 VA	200 VA	1	20 A	Lighting AHU-2 & AHU-3 MECH. PENT. PH1	10
11	Lighting AHU-4 & AHU-5 MECH. PENT. PH1	20 A	1			200 VA 420 VA	3	15 A	FCU-6 EQUIP PH5	12
13	FCU-6 EQUIP PH6	15 A	3	420 VA	420 VA		--	--	--	14
15	--	--	--		420 VA	420 VA	--	--	--	16
17	--	--	--			420 VA 360 VA	1	20 A	Receptacle ROOF	18
19	Spare	20 A	1	0 VA	0 VA		1	20 A	Spare	20
21	Spare	20 A	1		0 VA	0 VA	1	20 A	Spare	22
23	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA		1	20 A	Spare	26
27	Spare	20 A	1		0 VA	0 VA	1	20 A	Spare	28
29	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA		1	20 A	Spare	32
33	Spare	20 A	1		0 VA	0 VA	1	20 A	Spare	34
35	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA		1	20 A	Spare	38
39	Spare	20 A	1		0 VA	0 VA	1	20 A	Spare	40
41	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	42
			Total Load:	2100 VA	2220 VA	2120 VA				
			Total Amps:	18 A	19 A	18 A				

Branch Panel: EQ2PH

Location: EQUIP PH5 | **Volts:** 120/208V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Recessed | **Wires:** 4 | **Mains Type:** MCB
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:** 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	FCU-9 (2HP) MECHANICAL PENTHOUSE PH1	15 A	3	900 VA	900 VA		3	15 A	FCU-9 (2HP) near ELEV. CNTR. RM. E6C	2
3	--	--	--		900 VA	900 VA	--	--	--	4
5	--	--	--			900 VA 900 VA	--	--	--	6
7	FCU-11 MECHANICAL PENTHOUSE PH1	15 A	3	672 VA	360 VA		1	20 A	Receptacle MECHANICAL PENTHOUSE PH1	8
9	--	--	--		672 VA	360 VA	1	20 A	Receptacle MECHANICAL PENTHOUSE PH1	10
11	--	--	--			672 VA 360 VA	1	20 A	Receptacle MECHANICAL PENTHOUSE PH2	12
13	Receptacle MECHANICAL ROOM PH2	20 A	1	360 VA	540 VA		1	20 A	Receptacle Room PH5, E6C	14
15	Receptacle MECHANICAL PENT. PH1 & PH6	20 A	1		360 VA	900 VA	3	15 A	FCU-9 (2HP) near VESTIBULE B VPHB	16
17	FCU-9 (2HP) MECHANICAL RM. PH2	15 A	3			900 VA 900 VA	--	--	--	18
19	--	--	--	900 VA	900 VA		--	--	--	20
21	--	--	--		900 VA	0 VA	1	20 A	Spare	22
23	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA		1	20 A	Spare	26
27	Spare	20 A	1		0 VA	0 VA	1	20 A	Spare	28
29	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA		1	20 A	Spare	32
33	Spare	20 A	1		0 VA	0 VA	1	20 A	Spare	34
35	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA		1	20 A	Spare	38
39	Spare	20 A	1		0 VA	0 VA	1	20 A	Spare	40
41	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	42
			Total Load:	5532 VA	4992 VA	4632 VA				
			Total Amps:	47 A	42 A	39 A				

Distribution Panel: LRDP4PH

Location: EQUIP PH5 | **Volts:** 277/480V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** 600A | **Mains Rating:** 600 A
Breakers: 0 | **Ground Bus:** YES | **MCB Rating:**

Notes:

CKT	Circuit Description	Frame Size	Trip Rating	# of Poles	Load	Feeder Size	Remarks
1	AHU-5 (2@50HP)	225 A	225 A	3	37 kVA		SEE MOTOR WIRING SCHEDULE
2	Elevator Motor #1 (30HP)	100 A	100 A	3	22 kVA		SEE MOTOR WIRING SCHEDULE
3	Elevator Motor #2 (30HP)	100 A	100 A	3	22 kVA		SEE MOTOR WIRING SCHEDULE
4	EX-1 (30HP)	100 A	100 A	3	22 kVA		SEE MOTOR WIRING SCHEDULE
5	EX-2 (30HP)	100 A	100 A	3	22 kVA		SEE MOTOR WIRING SCHEDULE
6	EX-3 (30HP)	100 A	100 A	3	22 kVA		SEE MOTOR WIRING SCHEDULE
7	EX-4 (30HP) (STAND-BY)	100 A	100 A	3	22 kVA		SEE MOTOR WIRING SCHEDULE
8	Spare	--	0 A	3	0 kVA		100AF
9	Spare	--	0 A	3	0 kVA		100AF
10	Space	--	--	--	0 kVA		--
11	Space	--	--	--	0 kVA		--
12	Space	--	--	--	0 kVA		--
13	Space	--	--	--	0 kVA		--
14	Space	--	--	--	0 kVA		--
15	Space	--	--	--	0 kVA		--
16	Space	--	--	--	0 kVA		--
17	Space	--	--	--	0 kVA		--
18	Space	--	--	--	0 kVA		--
19	Space	--	--	--	0 kVA		--
20	Space	--	--	--	0 kVA		--
21	Space	--	--	--	0 kVA		--
22	Space	--	--	--	0 kVA		--
23	Space	--	--	--	0 kVA		--
24	Space	--	--	--	0 kVA		--

Total Conn. Load: 171511.0 VA
Ttl Demand Load: 111.482 kVA
Total Demand Amps: 134.092 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	171511 VA	65.00%	111482 VA		
				Total Conn. Load:	171511 VA
				Total Est. Demand:	111482 VA
				Total Conn.:	206 A
				Total Est. Demand:	134 A

Notes:

Branch Panel: L4PH

Location: EQUIP PH6 | **Volts:** 277/480V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Lighting	20 A	1	540 VA	1140...		1	20 A	Lighting	2
3	Spare	20 A	1		0 VA	0 VA	1	20 A	Spare	4
5	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	6
7	Spare	20 A	1	0 VA	0 VA		1	20 A	Spare	8
9	Spare	20 A	1		0 VA	0 VA	1	20 A	Spare	10
11	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	12
13	Spare	20 A	1	0 VA	0 VA		1	20 A	Spare	14
15	Spare	20 A	1		0 VA	0 VA	1	20 A	Spare	16
17	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA		1	20 A	Spare	20
21	Spare	20 A	1		0 VA	0 VA	1	20 A	Spare	22
23	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA		1	20 A	Spare	26
27	Spare	20 A	1		0 VA	0 VA	1	20 A	Spare	28
29	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA		1	20 A	Spare	32
33	Spare	20 A	1		0 VA	0 VA	1	20 A	Spare	34
35	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA		1	20 A	Spare	38
39	Spare	20 A	1		0 VA	0 VA	1	20 A	Spare	40
41	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	42
			Total Load:	1680 VA	0 VA	0 VA				
			Total Amps:	6 A	0 A	0 A				

Branch Panel: L4PH

Location: EQUIP PH6 | **Volts:** 277/480V | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: Surface | **Wires:** 4 | **Mains Type:** MLO
Enclosure: Type 1 | **Neutral:** | **Mains Rating:** 100 A
Ground Bus: | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Lighting	20 A	1	540 VA	1140...		1	20 A	Lighting	2
3	Spare	20 A	1		0 VA	0 VA	1	20 A	Spare	4
5	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	6
7	Spare	20 A	1	0 VA	0 VA		1	20 A	Spare	8
9	Spare	20 A	1		0 VA	0 VA	1	20 A	Spare	10
11	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	12
13	Spare	20 A	1	0 VA	0 VA		1	20 A	Spare	14
15	Spare	20 A	1		0 VA	0 VA	1	20 A	Spare	16
17	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA		1	20 A	Spare	20
21	Spare	20 A	1		0 VA	0 VA	1	20 A	Spare	22
23	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA		1	20 A	Spare	26
27	Spare	20 A	1		0 VA	0 VA	1	20 A	Spare	28
29	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA		1	20 A	Spare	32
33	Spare	20 A	1		0 VA	0 VA	1	20 A	Spare	34
35	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA		1	20 A	Spare	38
39	Spare	20 A	1		0 VA	0 VA	1	20 A	Spare	40
41	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	42
			Total Load:	1680 VA	0 VA	0 VA				
			Total Amps:	6 A	0 A	0 A				

GENERAL NOTES:

1. SPARE CIRCUIT BREAKERS IN ALL PANELS UPDATED VIA ADDENDUM #1.

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ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	2015-03-23	BID ADDENDUM 01

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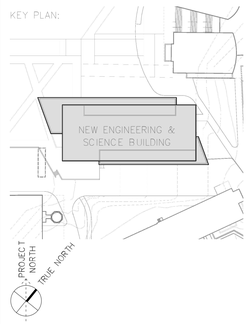
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:

ELECTRICAL PANEL SCHEDULES

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

E-612

CONFORMED SET: 05/29/2015

Distribution Panel: BD800EM

Location: ELECTRICAL CLOSET 103 | **Volts:** 480/277 Wye | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: | **Wires:** 4 | **Mains Type:**
Enclosure: | **Neutral:** | **Mains Rating:**
Breakers: | **Ground Bus:** | **MCB Rating:**

Notes:

CKT	Circuit Description	Frame Size	Trip Rating	# of Poles	Load	Feeder Size	Remarks
1	BP01-EM	100 A	80 A	3	14 kVA		
2	BP02-EM	400 A	250 A	3	90 kVA		
3	BP03-EM	400 A	250 A	3	94 kVA		
4	BP04-EM	400 A	250 A	3	73 kVA		
5	BP05-EM	400 A	150 A	3	82 kVA		
6	Spare	--	100 A	3	0 kVA		100AF
7	Spare	--	100 A	3	0 kVA		100 AF
8	Space	--	--	--	0 kVA		--

Total Conn. Load: 353644.0 VA
Ttl Demand Load: 218.322 kVA
Total Demand Amps: 262.601 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	243334 VA	65.00%	158167 VA		
Receptacle	110310 VA	54.53%	60155 VA	**Total Conn. Load:**	353644 VA
				Total Est. Demand:	218322 VA
				Total Conn.:	425 A
				Total Est. Demand:	263 A

Notes:

Distribution Panel: BD1600N

Location: ELECTRICAL CLOSET 112 | **Volts:** 480/277 Wye | **A.I.C.:**
Supply From: | **Phases:** 3 | **A.S.C.:**
Mounting: | **Wires:** 4 | **Mains Type:**
Enclosure: | **Neutral:** | **Mains Rating:**
Breakers: 42 | **Ground Bus:** | **MCB Rating:**

Notes:

CKT	Circuit Description	Frame Size	Trip Rating	# of Poles	Load	Feeder Size	Remarks
1	BP-100A-1	100 A	100 A	3	14 kVA		
2	BP-250A-1	400 A	250 A	3	62 kVA		
3	BP-100A-2	100 A	100 A	3	16 kVA		
4	BP-250A-2	400 A	250 A	3	178 kVA		
5	BP-100A-3	100 A	100 A	3	16 kVA		
6	BP-250A-3	400 A	250 A	3	152 kVA		
7	BP-100A-4	100 A	100 A	3	19 kVA		
8	BP-250A-4	400 A	250 A	3	201 kVA		
9	BP-100A-5	100 A	100 A	3	17 kVA		
10	BP-250A-5	400 A	250 A	3	183 kVA		
11							
12							
13							
14							
15							
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41							
42							

Total Conn. Load: 859532.8 VA
Ttl Demand Load: 547.598 kVA
Total Demand Amps: 658.659 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	234861 VA	65.00%	152660 VA		
Lighting	11060 VA	125.00%	13824 VA	**Total Conn. Load:**	860706 VA
Lighting - Dwelling Unit	18741 VA	45.41%	8509 VA	**Total Est. Demand:**	547598 VA
Other	58405 VA	100.00%	58405 VA	**Total Conn.:**	1035 A
Power	80760 VA	100.00%	80760 VA	**Total Est. Demand:**	659 A
Receptacle	456880 VA	51.09%	233440 VA		

Notes:

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NO.	DATE	COMMENTS
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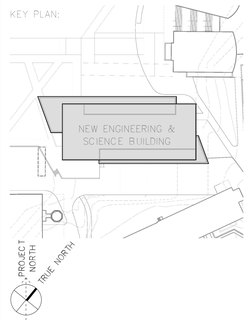
KEY PLAN:



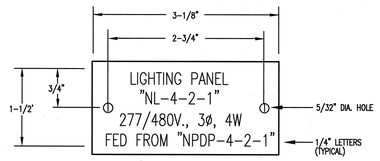
PROJECT:
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:
ELECTRICAL PANEL SCHEDULES

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE:

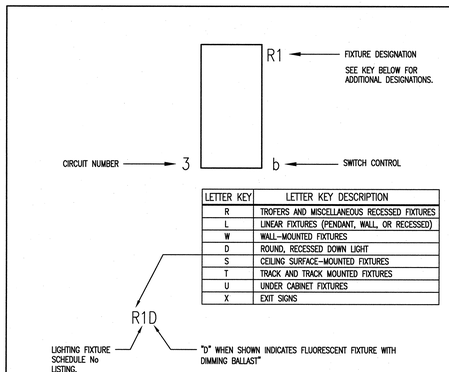
E-613

CONFORMED SET: 05/29/2015



NOTES:
1. REFER TO SPECIFICATIONS FOR ADDITIONAL NAMEPLATE REQUIREMENTS.
2. NAMEPLATE TO BE 1/16" WHITE PLASTIC WITH BLACK CENTER LAMINATION. FACE TO BE WHITE, ENGRAVED LETTERS TO BE BLACK.
3. SECURE NAMEPLATE TO SURFACES WITH (2) FLAT HEAD BRASS SCREWS.

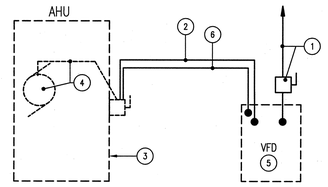
(1) DETAIL OF TYPICAL NAMEPLATE N.T.S.



LETTER KEY	LETTER KEY DESCRIPTION
R	TROFERS AND MISCELLANEOUS RECESSED FIXTURES
L	LINEAR FIXTURES (PENDANT, WALL, OR RECESSED)
W	WALL-MOUNTED FIXTURES
D	ROUND, RECESSED DOWN LIGHT
S	CEILING SURFACE-MOUNTED FIXTURES
T	TRACK AND TRACK MOUNTED FIXTURES
U	UNDER CABINET FIXTURES
X	EXIT SIGNS

(2) DETAIL OF TYPICAL LIGHTING FIXTURE DESIGNATIONS N.T.S.

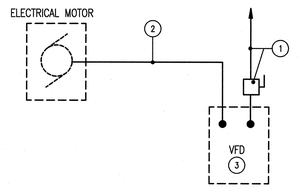
NOTES
① POWER WIRING AND VFD DISCONNECT BY ELECTRICAL CONTRACTOR.
② POWER WIRING BETWEEN VFD AND AHU DISCONNECT BY ELECTRICAL CONTRACTOR.
③ AHU UNIT DISCONNECT BY HVAC EQUIPMENT MANUFACTURER.
④ INTERNAL MOTOR AND WIRING BETWEEN UNIT DISCONNECT AND MOTOR BY HVAC MANUFACTURER.
⑤ VFD F&I BY HVAC
⑥ 3/4" CONDUIT FOR CONTROL WIRING TO SIGNAL DISCONNECT SWITCH OPEN CLOSE STATUS TO VFD



* REFER TO MOTOR WIRING SCHEDULE FOR CONDUIT AND WIRE SIZING TO EACH MOTOR.
* ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATION OF ALL VFD'S WITH HVAC PRIOR TO INSTALLATION.

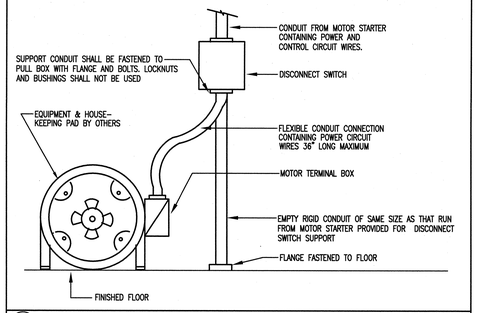
(3) TYPICAL AHU WITH VFD WIRING DETAIL N.T.S.

NOTES
① POWER WIRING AND VFD DISCONNECT BY ELECTRICAL CONTRACTOR.
② POWER WIRING BETWEEN ELECTRICAL MOTOR AND VFD BY ELECTRICAL CONTRACTOR.
③ VFD F&I BY HVAC

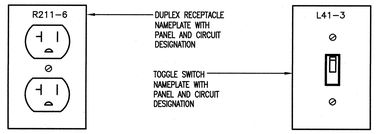


*SEE MOTOR WIRING SCHEDULE FOR CONDUIT AND WIRE SIZING TO EACH MOTOR.
* ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATION OF ALL VFD'S WITH HVAC PRIOR TO INSTALLATION.

(4) TYPICAL ELECTRICAL MOTOR WITH VFD WIRING DETAIL N.T.S.

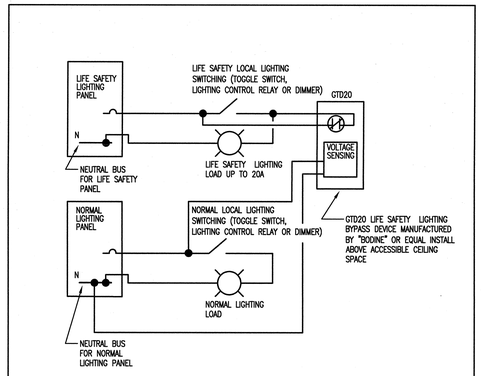


(5) DETAIL OF MOTOR DISCONNECT SWITCH MOUNTING N.T.S.

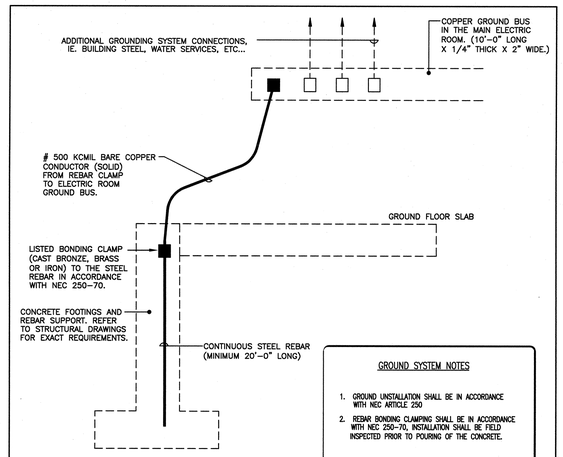


* APPLIES TO ALL DEVICES, ALL AREAS
* EMERGENCY RECEPTACLES SHALL BE RED WITH RED FACEPLATE.

(6) TYPICAL ELECTRICAL DEVICE ENGRAVING DETAIL N.T.S.



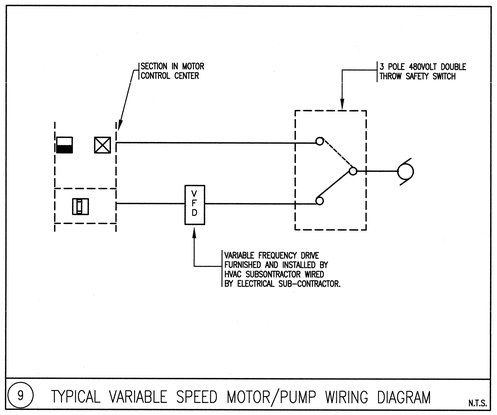
(7) LIFE SAFETY LIGHTING CONTROL BYPASS WIRING DETAIL N.T.S.



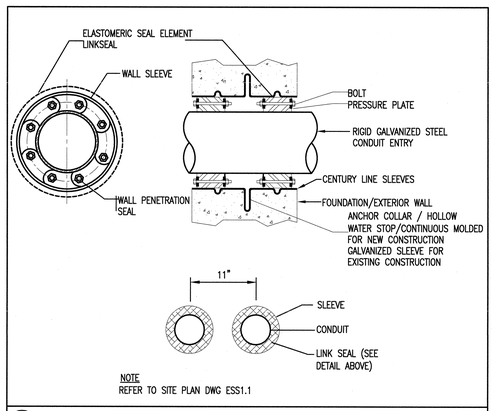
GROUND SYSTEM NOTES

1. GROUND INSTALLATION SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250
2. REBAR BONDING CLAMPING SHALL BE IN ACCORDANCE WITH NEC 250-70. INSTALLATION SHALL BE FIELD INSPECTED PRIOR TO POURING OF THE CONCRETE.

(8) GROUNDING BUS DETAIL N.T.S.

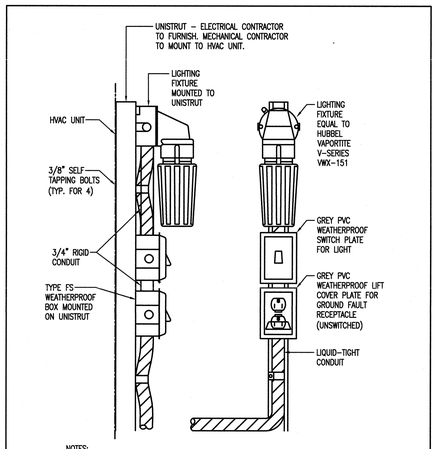


(9) TYPICAL VARIABLE SPEED MOTOR/PUMP WIRING DIAGRAM N.T.S.



NOTE
REFER TO SITE PLAN DWG ESS1.1

(10) CONDUIT EXTERIOR WALL PENETRATION DETAIL NTS



NOTES:
1. LIGHTING FIXTURE, LIGHT SWITCH, JUNCTION BOX, UNISTRUT AND ALL APPURTENANCES SHALL BE MOUNTED TO MECHANICAL EQUIPMENT IN A MANNER NOT TO INTERFERE WITH ANY ACCESS PANELS USED FOR SERVICING OF SAID MECHANICAL EQUIPMENT.

(11) ROOF EQUIPMENT LIGHT & RECEPTACLE DETAIL NTS

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ISSUE/REVISION:

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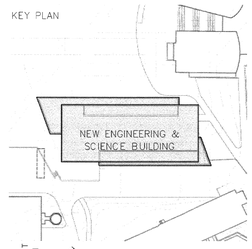
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

Drawing Title:

ELECTRICAL DETAILS

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: NTS

CONFORMED SET: 05/29/2015

E-700

LCP1 (32 CIRCUIT PANEL)

ZONE DESIGNATION	CKT & NUMBER		FLOOR	LOCATION	TYPE	VOLTAGE	DIMMING	LAMP	LOAD	QUANTITY	TOTAL WATTS	ADDITIONAL REMARKS
Z1	L41	2	Floor 1	DRY LAB 1B	L1-14'	277 V		T5 fluorescent	172 W	14	2401 W	
Z2	L41	3	Floor 1	DRY LAB 1A	L1-14'	277 V		T5 fluorescent	172 W	16	2744 W	
Z3	L41	6	Floor 1	DRY LAB 1B	L2	277 V		LED	29 W	7	203 W	
Z4	L41	6	Floor 1	DRY LAB 1A	L2	277 V		LED	29 W	11	319 W	
Z5	L41	4	Floor 1	LOBBY	L2	277 V		LED	29 W	2	58 W	
Z7	L41	4	Floor 1	LOBBY	L6	277 V		LED	36 W	4	144 W	
Z8	L41	4	Floor 1	LOBBY		277 V		LED	29 W	4	116 W	
Z9	L41	4	Floor 1	LOBBY		277 V		LED	29 W	4	116 W	
Z10	L41	4	Floor 1	LOBBY	L5	277 V		LED		2	305 W	
Z11	L41	4	Floor 1	WOMEN	L3	277 V		LED	29 W	4	116 W	
Z12	L41	4	Floor 1	MEN	L5	277 V		LED		2	100 W	
Z13	L41	4	Floor 1	WOMEN	L5	277 V		LED		2	100 W	
Z14	L41	4	Floor 1	MEN	L3	277 V		LED	29 W	4	116 W	
Z15	L41	4	Floor 1	LOBBY	L3	277 V		LED	29 W	2	58 W	
Z16	L41	6	Floor 1	DRY LAB 1A	L5	277 V		LED	69 W	1	69 W	
Z18	L41	4	Floor 1	SMART BUILDING DISPLAY-1	L2	277 V		LED	29 W	2	58 W	
Z19	L41	4	Floor 1	VESTIBULE A-1	L3	277 V		LED	29 W	2	58 W	
Z20	L41	6	Floor 1	DRY LAB 1A	L3	277 V		LED	29 W	6	174 W	
Z22	L41	6	Floor 1	DRY LAB 1B	L3	277 V		LED	29 W	7	203 W	
Z23	L41	4	Floor 1	LOBBY	L14	277 V		3000K LED	16 W	1	16 W	
Grand total: 97											7474 W	

LCP2 (48 CIRCUIT PANEL)

ZONE DESIGNATION	CKT & NUMBER		FLOOR	LOCATION	TYPE	VOLTAGE	DIMMING	LAMP	LOAD	QUANTITY	TOTAL WATTS	ADDITIONAL REMARKS
Z1	L42	4	Floor 2	WET LAB-1	L1-16'	277 V		T5 fluorescent	196 W	9	1764 W	
Z2	L42	7	Floor 2	WET LAB-1	L1-16'	277 V		T5 fluorescent	196 W	9	1764 W	
Z3	L42	5	Floor 2	WET LAB-1	L1-16'	277 V		T5 fluorescent	196 W	10	1960 W	
Z4	L42	6	Floor 2	WET LAB-1	L1-16'	277 V		T5 fluorescent	196 W	10	1960 W	
Z5	L42	8	Floor 2	WET LAB-1	L2	277 V		LED	29 W	20	580 W	
Z6	L42	8	Floor 2	WET LAB-1		277 V		LED	29 W	15	435 W	
Z7	L42	9	Floor 2	ELEV LOBBY		277 V		LED	29 W	5	145 W	
Z8	L42	13	Floor 2	CORRIDOR-1		277 V		3000K LED		9	138 W	
Z9	L42	13	Floor 2	CORRIDOR-1		277 V		3000K LED		9	138 W	
Z10	L42	13	Floor 2	CORRIDOR-1	L5	277 V		LED	65 W	1	65 W	
Z11	L42	10	Floor 2	WET LAB-1	L2	277 V		LED	29 W	22	638 W	
Z12	L42	9	Floor 2	ELEV LOBBY	L5	277 V		LED	228 W	1	228 W	
Z13	L42	10	Floor 2	WET LAB-1	L3	277 V		LED	29 W	14	406 W	
Z14	L42	10	Floor 2	CORRIDOR		277 V		LED	29 W	6	174 W	
Z15	L42	10	Floor 2	CORRIDOR	L2	277 V		LED	29 W	3	87 W	
Z16	L42	8	Floor 2	CORRIDOR	L5	277 V		LED		2	226 W	
Z17	L42	9	Floor 2	MEN	L3	277 V		LED	29 W	4	116 W	
Z18	L42	9	Floor 2	MEN	L5	277 V		LED		2	90 W	
Z19	L42	9	Floor 2	WOMEN	L5	277 V		LED		2	90 W	
Z20	L42	9	Floor 2	WOMEN	L3	277 V		LED	29 W	4	116 W	
Z21	L42	9	Floor 2	ELEV LOBBY	L3	277 V		LED	29 W	4	116 W	
Z22	L42	9	Floor 2	ELEV LOBBY		277 V		LED	29 W	7	203 W	
Z23	L42	9	Floor 2	ELEV LOBBY	L14	277 V		3000K LED	16 W	1	16 W	
Z24	L42	12	Floor 2	WORKSTATION S-1		277 V				4	304 W	
Z25	L42	12	Floor 2	WORKSTATION S-1		277 V				5	304 W	
Z26	L42	12	Floor 2	WORKSTATION S-1	L7-7'	277 V		5000K LED	32 W	1	32 W	
Z27	L42	17	Floor 2	PANTRY / LUNCHROOM	L7-9'	277 V		5000K LED	45 W	1	45 W	
Z27	L42	17	Floor 2	Space		277 V				2	68 W	
Z28	L42	17	Floor 2	CONFERENCE ROOM		277 V				7	221 W	
Z29	L42	17	Floor 2	OFFICE	L7-10'	277 V		5000K LED	45 W	1	45 W	
Z30	L42	17	Floor 2	OFFICE	L7-10'	277 V		5000K LED	45 W	1	45 W	
Z31	L42	17	Floor 2	OFFICE	L7-10'	277 V		5000K LED	45 W	1	45 W	
Z32	L42	17	Floor 2	OFFICE	L7-8.5'	277 V		5000K LED	38 W	1	38 W	
Grand total: 193											12600 W	

LCP4 (48 CIRCUIT PANEL)

ZONE DESIGNATION	CKT & NUMBER		FLOOR	LOCATION	TYPE	True Voltage	DIMMING	LAMP	True Load	QUANTITY	TOTAL WATTS	ADDITIONAL REMARKS
Z1	L44	11	Floor 4	WET LAB	L3	277 V		LED	29 W	6	174 W	
Z2	L44	11	Floor 4	WET LAB	L3	277 V		LED	29 W	9	261 W	
Z3	L44	10	Floor 4	WET LAB	L1-16'	277 V		T5 fluorescent	196 W	10	1960 W	
Z4	L44	7	Floor 4	WET LAB	L1-16'	277 V		T5 fluorescent	196 W	10	1960 W	
Z5	L44	9	Floor 4	CORRIDOR	L2	277 V		LED	29 W	5	145 W	
Z6	L44	5	Floor 4	WET LAB	L3	277 V		LED	29 W	12	348 W	
Z7	L44	5	Floor 4	WET LAB	L3	277 V		LED	29 W	3	87 W	
Z8	L44	5	Floor 4	WET LAB	L1-16'	277 V		T5 fluorescent	196 W	10	1960 W	
Z9	L44	8	Floor 4	WET LAB	L1-16'	277 V		T5 fluorescent	196 W	10	1960 W	
Z10	L44	5	Floor 4	WET LAB	L2	277 V		LED	29 W	20	580 W	
Z11	L44	9	Floor 4	ELEV LOBBY	L2	277 V		LED	29 W	4	116 W	
Z12	L44	9	Floor 4	ELEV LOBBY	L3	277 V		LED	29 W	4	116 W	
Z13	L44	9	Floor 4		L5	277 V		LED		8	223 W	
Z14	L44	11	Floor 4	WET LAB	L2	277 V		LED	29 W	20	580 W	
Z15	L44	4	Floor 4	CORRIDOR	L2	277 V		LED	29 W	4	116 W	
Z16	L44	4	Floor 4	CORRIDOR	L5	277 V		LED		2	227 W	
Z17	L44	6	Floor 4	WOMEN	L3	277 V		LED	29 W	4	116 W	
Z18	L44	6	Floor 4	ELEV LOBBY	L2A	277 V		LED	21 W	1	21 W	
Z19	L44	6	Floor 4	MEN	L3	277 V		LED	29 W	4	116 W	
Z20	L44	6	Floor 4	MEN	L5	277 V		LED		2	90 W	
Z21	L44	6	Floor 4	WOMEN	L5	277 V		LED		2	90 W	
Z22	L44	9	Floor 4	ELEV LOBBY		277 V		LED	29 W	5	145 W	
Z23	L44	4	Floor 4	CORRIDOR	L3	277 V		LED	29 W	2	58 W	
Z24	L44	12	Floor 4	DRY LAB-1	L7-7'	277 V		5000K LED	32 W	1	32 W	
Z25	L44	13	Floor 4	DRY LAB	-	277 V		5000K LED		2	83 W	
Z26	L44	13	Floor 4	DRY LAB	L7-10'	277 V		5000K LED	45 W	2	90 W	
Z27	L44	13	Floor 4	MEETING/BREAKOUT SPACE		277 V		5000K LED		7	210 W	
Z28	L44	13	Floor 4	PANTRY / WORKROOM		277 V				2	81 W	
Z29	L44	13	Floor 4	TECH OFFICE / STORAGE	L7-7'	277 V		5000K LED	34 W	1	34 W	
Z30	L44	9	Floor 4	ELEV LOBBY	L3B	277 V		LED	29 W	2	58 W	
Grand total: 174											12037 W	

LCP3 (48 CIRCUIT PANEL)

ZONE DESIGNATION	CKT & NUMBER		FLOOR	LOCATION	TYPE	True Voltage	DIMMING	LAMP	True Load	QUANTITY	TOTAL WATTS	ADDITIONAL REMARKS
Z1	L43	4	Floor 3	WET LAB-1	L1-16'	277 V		T5 fluorescent	196 W	5	980 W	
Z2	L43	5	Floor 3	WET LAB-1	L1-16'	277 V		T5 fluorescent	196 W	5	980 W	
Z3	L43	6	Floor 3	WET LAB-1	L1-16'	277 V		T5 fluorescent	196 W	11	2156 W	
Z4	L43	7	Floor 3	WET LAB-1	L1-16'	277 V		T5 fluorescent	196 W	11	2156 W	
Z5	L43	8	Floor 3	WET LAB-1	L2	277 V		LED	29 W	10	290 W	
Z6	L43	8	Floor 3	WET LAB-1		277 V		LED	29 W	10	290 W	
Z7	L43	8	Floor 3	WET LAB-1		277 V		LED	29 W	6	174 W	
Z8	L43	9	Floor 3	WET LAB-1	L2	277 V		LED	29 W	21	609 W	
Z9	L43	9	Floor 3	WET LAB-1	L3	277 V		LED	29 W	14	406 W	
Z10	L43	10	Floor 3	CORRIDOR-1	L18-10'	277 V		3000K LED	46 W	5	230 W	
Z11	L43	11	Floor 3	CORRIDOR		277 V		LED	29 W	4	116 W	
Z12	L43	11	Floor 3	CORRIDOR	L5	277 V		LED		2	227 W	
Z13	L43	11	Floor 3	CORRIDOR	L3	277 V		LED	29 W	3	87 W	
Z14	L43	10	Floor 3	ELEV LOBBY-1		277 V		LED	29 W	6	174 W	
Z15	L43	10	Floor 3	ELEV LOBBY-1	L5	277 V		LED	231 W	1	231 W	
Z16	L43	10	Floor 3	ELEV LOBBY-1		277 V		LED	29 W	3	87 W	
Z17	L43	10	Floor 3	ELEV LOBBY-1	L3	277 V		LED	29 W	4	116 W	
Z18	L43	10	Floor 3	MEN	L3	277 V		LED	29 W	4	116 W	
Z19	L43	10	Floor 3	MEN	L5	277 V		LED		2	101 W	
Z20	L43	10	Floor 3	WOMEN	L5	277 V		LED		2	101 W	
Z21	L43	10	Floor 3	WOMEN	L3	277 V		LED	29 W	4	116 W	
Z22	L43	10	Floor 3	ELEV LOBBY-1	L14	277 V		3000K LED	16 W	1	16 W	
Z23	L43	16	Floor 3	WORKSTATIONS-1		277 V				5	304 W	
Z24	L43	10	Floor 3	CORRIDOR-1	L18-10'	277 V		3000K LED	46 W	5	230 W	
Z25	L43	16	Floor 3	WORKSTATIONS-1		277 V				4	304 W	
Z26	L41	11	Floor 3	WORKSTATIONS-1	L7-7'	277 V		5000K LED	32 W	1	32 W	
Z27	L43	17	Floor 3	OFFICE	L7-8.5'	277 V		5000K LED	38 W	1	38 W	
Z28	L43	17	Floor 3	OFFICE	L7-10'	277 V		5000K LED	45 W	1	45 W	
Z29	L43	17	Floor 3	OFFICE	L7-10'	277 V		5000K LED	45 W	1	45 W	
Z30	L43	17	Floor 3	OFFICE	L7-10'	277 V		5000K LED	45 W	1	45 W	
Z31	L43	17	Floor 3	OFFICE		277 V		5000K LED		6	175 W	
Z33	L43	17	Floor 3	CGI COMPUTATIONAL TRAINING-1	L7-10'	277 V		5000K LED	45 W	1	45 W	
Grand total: 160											11020 W	

LCP5 (48 CIRCUIT PANEL)

ZONE DESIGNATION	CKT & NUMBER		FLOOR	LOCATION	TYPE	True Voltage	DIMMING	LAMP	True Load	QUANTITY	TOTAL WATTS	ADDITIONAL REMARKS
Z1	L45	4	Floor 5	OPEN WET LAB	L3	277 V		LED	29 W	16	464 W	
Z2	L45	4	Floor 5	OPEN WET LAB	L1-16'	277 V		T5 fluorescent	196 W	10	1960 W	
Z3	L45	10	Floor 5	OPEN WET LAB	L1-16'	277 V		T5 fluorescent	196 W	8	1568 W	
Z4	L45	5	Floor 5	OPEN WET LAB	L3	277 V		LED	29 W	16	464 W	
Z5	L45	7	Floor 5	OPEN WET LAB	L1-16'	277 V		T5 fluorescent	196 W	9	1764 W	
Z6	L45	9	Floor 5	OPEN WET LAB	L1-16'	277 V		T5 fluorescent	196 W	9	1764 W	
Z7	L45	6	Floor 5	ELEV LOBBY		277 V		LED	29 W	6	174 W	
Z8	L45	6	Floor 5		L5	277 V		LED		2	298 W	
Z9	L45	6	Floor 5	ELEV LOBBY	L2	277 V		LED	29 W	3	87 W	
Z10	L45	6	Floor 5	ELEV LOBBY	L3B	277 V		LED	29 W	2	58 W	
Z11	L45	6	Floor 5	ELEV LOBBY	L3	277 V		LED	29 W	4	116 W	
Z12	L45	6	Floor 5	CORRIDOR	L2	277 V		LED	29 W	5	145 W	
Z13	L45	11	Floor 5	CORRIDOR		277 V		LED	29 W	5	145 W	
Z14	L45	11	Floor 5	CORRIDOR	L5	277 V		LED		2	204 W	
Z15	L45	6	Floor 5	MEN	L3	277 V		LED	29 W	4	116 W	
Z16	L45	6	Floor 5	MEN	L5	277 V		LED		2	90 W	
Z17	L45	6	Floor 5	WOMEN	L5	277 V		LED		2	90 W	
Z18	L45	6	Floor 5	WOMEN	L3	277 V		LED	29 W	4	116 W	
Z19	L45	6	Floor 5	ELEV LOBBY	L2A	277 V		LED	21 W	1	21 W	
Z20	L45	11	Floor 5	OPEN WET LAB	L2C	277 V		3000K LED	31 W	24	744 W	
Z21	L45	11	Floor 5	OPEN WET LAB	L2C	277 V		3000K LED	31 W	24	744 W	
Z23	L45	12	Floor 5	PANTRY / WORKROOM	L7-10'	277 V		5000K LED	45 W	1	45 W	
Z24	L45	12	Floor 5	MEETING/BREAKOUT SPACE		277 V		5000K LED		7	214 W	
Z25	L45	12	Floor 5	DRY LAB	L7-10'	277 V		5000K LED	45 W	2	90 W	
Z26	L45	12	Floor 5	DRY LAB		277 V		5000K LED		2	83 W	
Z27	L45	11	Floor 5	DRY LAB-1	L7-7'	277 V		5000K LED	32 W	1	32 W	
Z28	L45	11	Floor 5	CORRIDOR	L3	277 V		LED	29 W	4	116 W	

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NO.	DATE	COMMENTS

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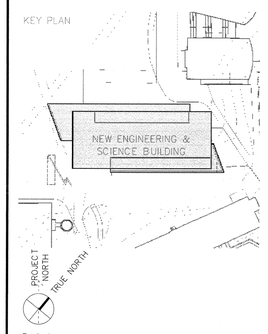
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

Drawing Title:

LIGHTING CONTROL PANEL SCHEDULES

CONFORMED SET: 05/29/2015

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE:

E-701

FIRE ALARM SYSTEM:

F	MANUAL PULL STATION MOUNTED 48" AFF. "WP" INDICATES WEATHERPROOF. "PC" INDICATES PROTECTIVE COVER.
SA #	WALL MOUNTED COMBINATION AUDIO (SPEAKER)/VISUAL (STROBE) APPLIANCE. # INDICATES CANDELA RATING. "HO" INDICATES HIGH-OUTPUT SPEAKER. "BB" INDICATES 520 HZ FREQUENCY REQUIRED IN HANDICAP AND STAFF SLEEPING AREAS PER NFPA 72.
S	WALL MOUNTED AUDIO (SPEAKER) APPLIANCE. "HO" INDICATES HIGH-OUTPUT SPEAKER.
#	WALL MOUNTED VISUAL (STROBE) APPLIANCE. # INDICATES CANDELA RATING.
#	CEILING MOUNTED COMBINATION AUDIO (SPEAKER)/VISUAL (STROBE) APPLIANCE. # INDICATES CANDELA RATING. "HO" INDICATES HIGH-OUTPUT SPEAKER.
S	CEILING MOUNTED AUDIO (SPEAKER). "HO" INDICATES HIGH-OUTPUT SPEAKER.
#	CEILING MOUNTED VISUAL (STROBE) APPLIANCE. # INDICATES CANDELA RATING.
	REMOTE STATUS/ALARM INDICATOR
H #	FIXED TEMPERATURE HEAT DETECTOR. # INDICATES TEMPERATURE RATING. "E" INDICATES FOR ELEVATOR RECALL.
	FIREFIGHTER'S TELEPHONE STATION
EX	MAGNETIC DOOR HOLD OPEN DEVICE, FURNISHED AND INSTALLED BY DOOR HARDWARE CONTRACTOR; WIRED BY THE ELECTRICAL CONTRACTOR.
R	AUXILIARY RELAY (INTERPOSING RELAY)
	PHOTOELECTRIC SMOKE DETECTOR. "E" INDICATES FOR ELEVATOR RECALL; " T " INDICATES WITH THERMAL BASE; "SD" INDICATES SOUNDER BASE; "I" INDICATES IONIZATION, "ASD" INDICATES AIR SAMPLING DETECTOR; AND "PR" INDICATES FOR USE WITH STAIR/ELEVATOR PRESSURIZATION.
MM	MONITOR MODULE. "T" INDICATES TAMPER SWITCH, "F" INDICATES FLOW SWITCH, "P" INDICATES PRESSURE SWITCH. (TAMPER AND FLOW SWITCH(ES) FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR, WIRED BY THE ELECTRICAL CONTRACTOR.) – (REFER TO FIRE PROTECTION DRAWINGS FOR EXACT LOCATION AND QUANTITY OF ALL TAMPER, PRESSURE, AND FLOW SWITCHES.)
CM	CONTROL MODULE
# I/O	MULTI-POINT INPUT/OUTPUT MODULE. # INDICATES QUANTITY OF POINTS.
	DUCT MOUNTED SMOKE DETECTOR. SMOKE DETECTOR PROVIDED AND WIRED BY ELECTRICAL CONTRACTOR; INSTALLED BY MECHANICAL CONTRACTOR – REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND QUANTITY OF ALL FIRE SMOKE DAMPERS AND DUCT SMOKE DETECTORS.
	REMOTE ALARM INDICATOR AND TEST SWITCH FOR DUCT SMOKE DETECTOR, WITH NAMEPLATE LABELED ACCORDINGLY – (REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND QUANTITY OF ALL FIRE SMOKE DAMPERS AND DUCT SMOKE DETECTORS.)
J	4" SQUARE JUNCTION BOX MOUNTED ABOVE HUNG CEILING WITH FLEXIBLE CONNECTION. "SD" INDICATES POWER CONNECTION TO SMOKE DAMPER; "FSD" INDICATES POWER CONNECTION TO FIRE/SMOKE DAMPER; "DH" INDICATES POWER CONNECTION TO DOOR HOLD OPEN DEVICE.
KB	REPOSITORY BOX – "KNOX BOX" WITH MONITOR MODULE TAMPER SWITCH FOR SUPERVISION
RB	ROTATING EXTERIOR BEACON. FINAL LOCATION & MOUNTING HEIGHT SHALL BE APPROVED BY FIRE DEPARTMENT PRIOR TO INSTALLATION.
FACP / FACP	FIRE ALARM CONTROL PANEL. "M" INDICATES MAIN PANEL; "P" INDICATES PRIMARY CONTROLS; "R" INDICATES REMOTE PANEL.
TC / TC	FIRE ALARM TERMINAL CABINET
GA / GA	GRAPHIC ANNUNCIATOR
PS / PS	AUXILIARY POWER SUPPLY
FAA / FAA	FIRE ALARM ANNUNCIATOR
EOL	END-OF-LINE RESISTOR
PB	FIRE ALARM PULLBOX
	FIRE PROTECTION SPRINKLER BELL – FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR; WIRED BY ELECTRICAL CONTRACTOR.
MS / MS	TWO-WAY COMMUNICATION SYSTEM: MASTER STATION (LOCATION TO BE APPROVED BY UCONN FIRE DEPARTMENT)
CS / CS	TWO-WAY COMMUNICATION SYSTEM: CONTROL STATION (LOCATE AT DESIGNATED "AREA OF REFUGE/AREA OF RESCUE ASSISTANCE" IN EACH ELEVATOR LOBBY)

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ISSUE/REVISION:

NO.	DATE	COMMENTS

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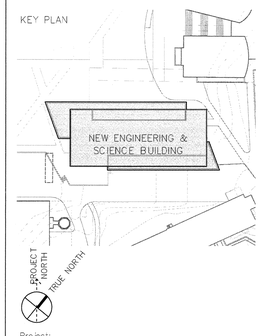
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

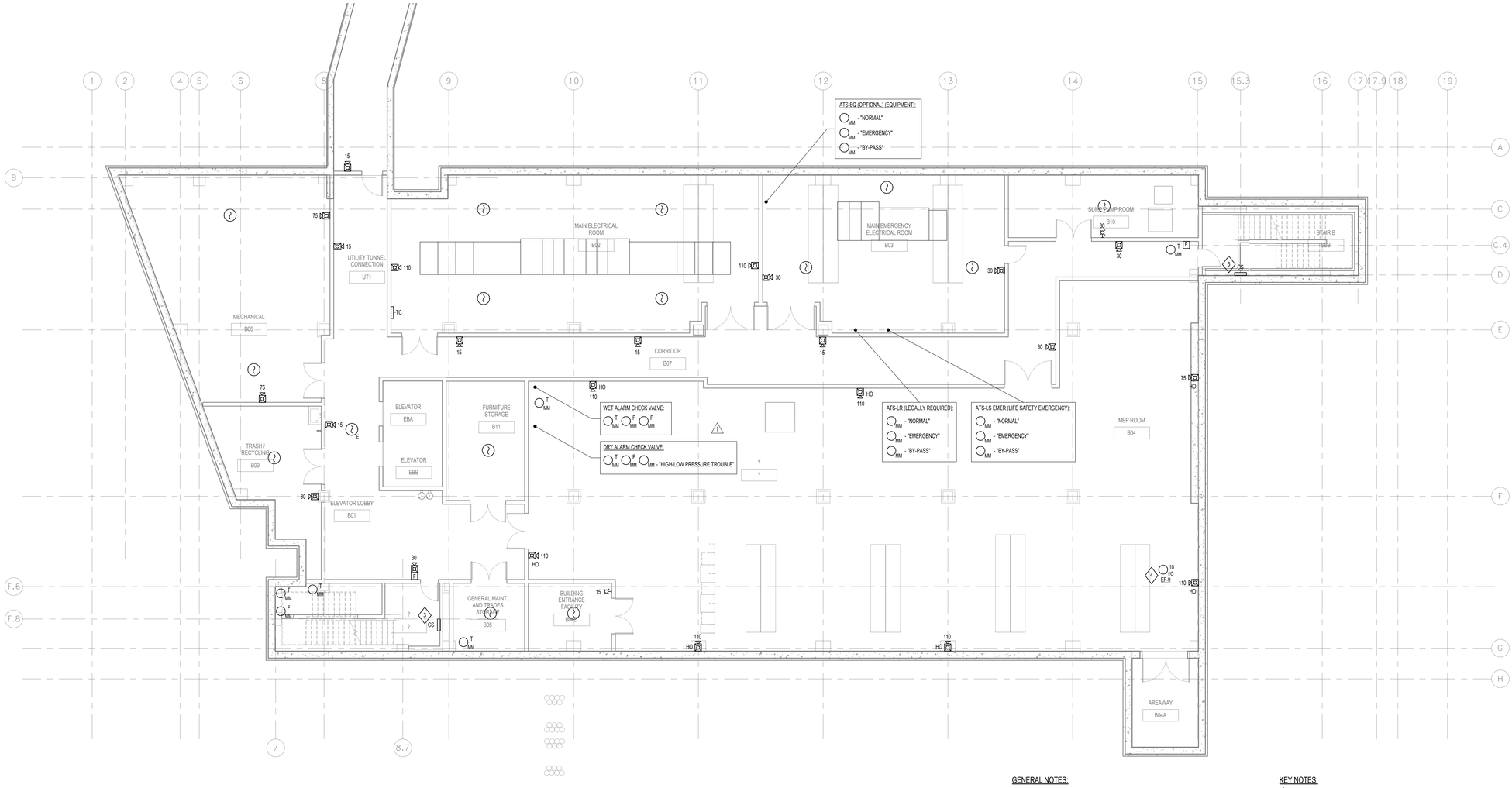
Drawing Title:

FIRE ALARM LEGEND

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: NTS

CONFORMED SET: 05/29/2015

FA-001



GENERAL NOTES:

1. CONSULT THE PROJECT SPECIFICATIONS AND PROJECT NARRATIVE FOR ADDITIONAL INFORMATION REGARDING SYSTEM DESIGN, INTENDED PERFORMANCE, PRODUCTS AND INSTALLATION.
2. DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF BR+A CONSULTING ENGINEERS, LLC.
3. CONSULT MANUFACTURER'S APPROVED SHOP DRAWINGS AND INSTALLATION MANUALS FOR ADDITIONAL INFORMATION.
4. ALL INSTALLATION WORK SHALL CONFORM WITH THE REQUIREMENTS OF NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (2002 EDITION) AND NFPA 70 THE NATIONAL ELECTRICAL CODE (2014 EDITION). THE CONTRACTOR SHALL KEEP A COPY OF EACH ON THE JOB SITE.
5. WHERE EQUIPMENT MUST BE INSTALLED ON SUSPENDED CEILINGS OR BETWEEN BUILDING STRUCTURAL COMPONENTS, ADEQUATE FIXTURE BARS OR OTHER SUPPORT SHALL BE PROVIDED.
6. CONTROL UNITS SHALL BE INSTALLED SO THAT WORKING CLEARANCES ARE MAINTAINED AROUND THE UNITS IN ACCORDANCE WITH NFPA 70 NATIONAL ELECTRICAL CODE (2014).
7. ALL WIRING WITHIN CONTROL EQUIPMENT SHALL BE INSTALLED SO THAT WIRING AND EQUIPMENT ARE ACCESSIBLE. WIRING SHALL BE INSTALLED SO THAT EQUIPMENT CAN BE SERVICED OR REMOVED WITHOUT DISCONNECTING OR MOVING UNRELATED CIRCUITS. ALL WIRING WITHIN CONTROL UNITS, JUNCTION BOXES, AND TERMINAL CABINETS SHALL BE NEATLY TRIMMED, DRESSED, LABELED, AND INSTALLED IN GUTTERS OR CHANNELS. WIRING IN CONTROL UNITS AND TERMINAL CABINETS SHALL BE INSTALLED PARALLEL TO OR AT RIGHT ANGLES TO THE SIDES AND BACK OF THE ENCLOSURE.
8. REFER TO LEGEND FA-001, DETAIL SHEET FA-600, AND RISER DIAGRAM FA-500 FOR ADDITIONAL REQUIREMENTS.
9. REFER TO MECHANICAL/HVAC DRAWINGS TO COORDINATE QUANTITIES AND LOCATIONS OF ALL EQUIPMENT AND DEVICES TO BE INTEGRATED WITH THE FIRE ALARM SYSTEM.
10. REFER TO FIRE PROTECTION DRAWINGS FOR EXACT QUANTITIES AND LOCATIONS OF RELATED SYSTEMS AND DEVICES.
11. ALL CIRCUITS SHALL BE DERIVED FROM LOCAL FIRE ALARM CONTROL PANEL AND WIRED TO TERMINAL CABINETS ON EACH FLOOR AS SHOWN ON THE RISER DIAGRAM.
12. REFER TO FIRE ALARM SPECIFICATION 283110 FOR WIRING REQUIREMENTS.
13. CIRCUITS SHALL BE INDIVIDUALLY ISOLATED SO THAT A WIRING FAULT WILL NOT AFFECT THE OPERATION OF CIRCUITS SERVING ANY OTHER FLOOR OR EVACUATION ZONE.
14. ALL WIRING SHALL BE IN CONDUIT (3/4" MINIMUM) - EXCEPT AS NOTED.
15. COORDINATE EQUIPMENT INSTALLATION WITH ARCHITECTURAL DOCUMENTS INCLUDING ELEVATIONS, REFLECTED CEILING PLANS AND DETAILS.
16. CONTRACTOR SHALL PROVIDE 120VAC EMERGENCY ELECTRICAL POWER TO ALL FIRE ALARM CONTROL PANELS AND RELATED DEVICES.
17. EXCEPT WHERE DESIGNATED AS WEATHERPROOF "WP" DEVICES, ALL DEVICES AND EQUIPMENT SHALL BE LOCATED IN A CONDITIONED SPACE.

KEY NOTES:

1. DUCT SMOKE DETECTOR INTERFACE - SEE DETAIL #3, KEYNOTE #1 ON SHEET FA-600 FOR ADDITIONAL INFORMATION
2. AHU DUCT SMOKE DETECTOR INTERFACE - SEE DETAIL #4, KEYNOTE #2 ON SHEET FA-600 FOR ADDITIONAL INFORMATION.
3. TWO-WAY (EMERGENCY) COMMUNICATIONS SYSTEM - SEE DETAIL #8 ON SHEET FA-600 FOR ADDITIONAL INFORMATION.
4. FAN CONTROL-MANUAL OVERRIDE INTERFACE - SEE DETAIL #7 ON SHEET FA-600 FOR ADDITIONAL INFORMATION.
5. EMERGENCY ELEVATOR INTERFACE - SEE DETAIL #5 ON SHEET FA-600 FOR ADDITIONAL INFORMATION.

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ISSUE/REVISION:

NO.	DATE	COMMENTS
1	2015-04-20	BID ADDENDUM 03

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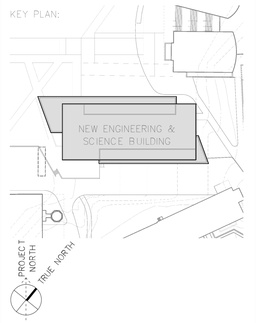
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

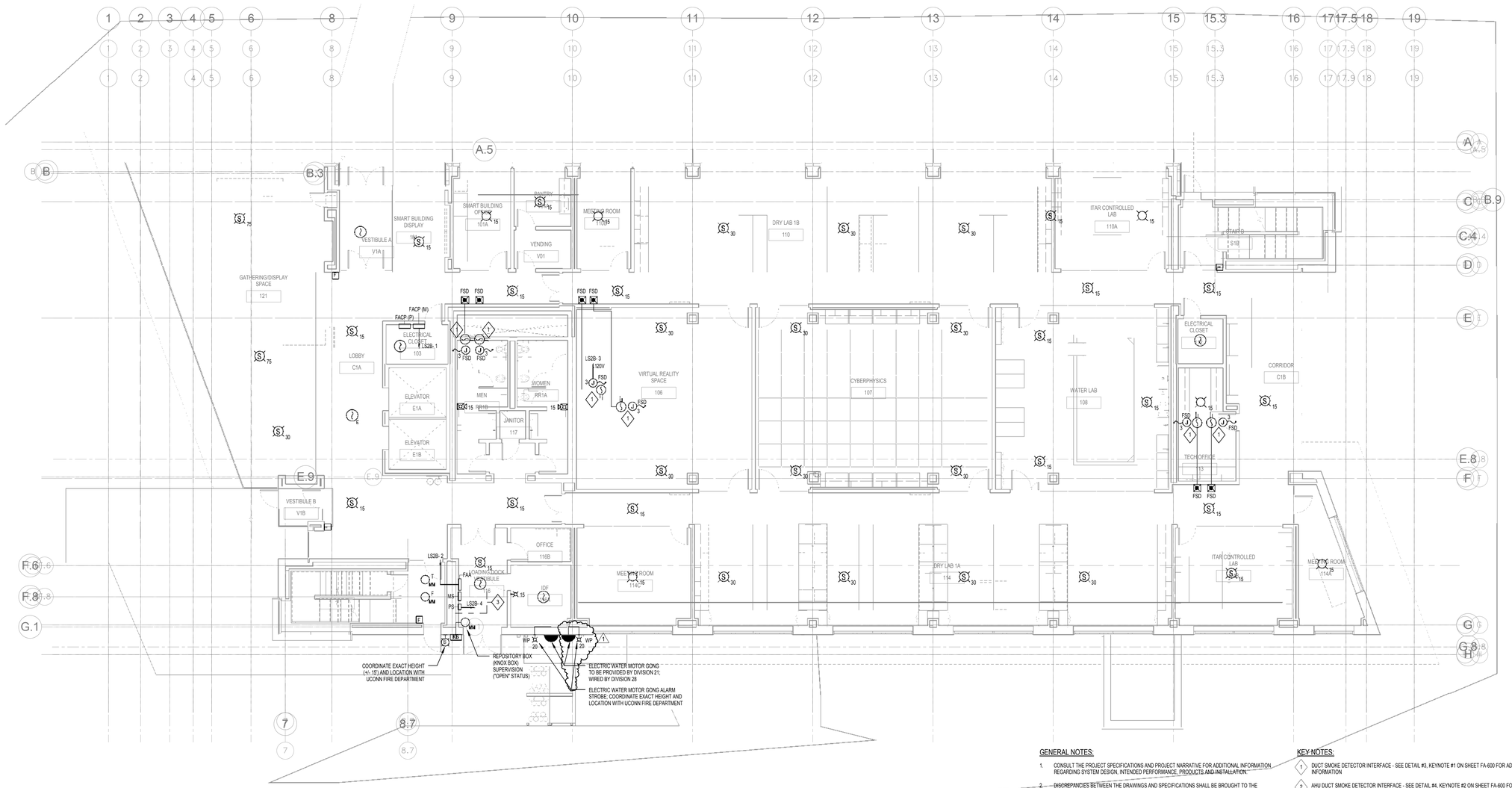
DRAWING TITLE:

FIRE ALARM BASEMENT PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

FA-400

CONFORMED SET: 05/29/2015



GENERAL NOTES:

1. CONSULT THE PROJECT SPECIFICATIONS AND PROJECT NARRATIVE FOR ADDITIONAL INFORMATION REGARDING SYSTEM DESIGN, INTENDED PERFORMANCE, PRODUCTS AND INSTALLATION.
2. DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF BR+A CONSULTING ENGINEERS, LLC.
3. CONSULT MANUFACTURER'S APPROVED SHOP DRAWINGS AND INSTALLATION MANUALS FOR ADDITIONAL INFORMATION.
4. ALL INSTALLATION WORK SHALL CONFORM WITH THE REQUIREMENTS OF NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (2002 EDITION) AND NFPA 70 THE NATIONAL ELECTRICAL CODE (2014 EDITION). THE CONTRACTOR SHALL KEEP A COPY OF EACH ON THE JOB SITE.
5. WHERE EQUIPMENT MUST BE INSTALLED ON SUSPENDED CEILINGS OR BETWEEN BUILDING STRUCTURAL COMPONENTS, ADEQUATE FIXTURE BARS OR OTHER SUPPORT SHALL BE PROVIDED.
6. CONTROL UNITS SHALL BE INSTALLED SO THAT WORKING CLEARANCES ARE MAINTAINED AROUND THE UNITS IN ACCORDANCE WITH NFPA 70 NATIONAL ELECTRICAL CODE (2014).
7. ALL WIRING WITHIN CONTROL EQUIPMENT SHALL BE INSTALLED SO THAT WIRING AND EQUIPMENT ARE ACCESSIBLE. WIRING SHALL BE INSTALLED SO THAT EQUIPMENT CAN BE SERVICED OR REMOVED WITHOUT DISCONNECTING OR MOVING UNRELATED CIRCUITS. ALL WIRING WITHIN CONTROL UNITS, JUNCTION BOXES, AND TERMINAL CABINETS SHALL BE NEATLY TRIMMED, DRESSED, LABELED, AND INSTALLED IN GUTTERS OR CHANNELS. WIRING IN CONTROL UNITS AND TERMINAL CABINETS SHALL BE INSTALLED PARALLEL TO OR AT RIGHT ANGLES TO THE SIDES AND BACK OF THE ENCLOSURE.
8. REFER TO LEGEND FA-001, DETAIL SHEET FA-600, AND RISER DIAGRAM FA-500 FOR ADDITIONAL REQUIREMENTS.
9. REFER TO MECHANICAL/HVAC DRAWINGS TO COORDINATE QUANTITIES AND LOCATIONS OF ALL EQUIPMENT AND DEVICES TO BE INTEGRATED WITH THE FIRE ALARM SYSTEM.
10. REFER TO FIRE PROTECTION DRAWINGS FOR EXACT QUANTITIES AND LOCATIONS OF RELATED SYSTEMS AND DEVICES.
11. ALL CIRCUITS SHALL BE DERIVED FROM LOCAL FIRE ALARM CONTROL PANEL AND WIRED TO TERMINAL CABINETS ON EACH FLOOR AS SHOWN ON THE RISER DIAGRAM.
12. REFER TO FIRE ALARM SPECIFICATION 283110 FOR WIRING REQUIREMENTS.
13. CIRCUITS SHALL BE INDIVIDUALLY ISOLATED SO THAT A WIRING FAULT WILL NOT AFFECT THE OPERATION OF CIRCUITS SERVING ANY OTHER FLOOR OR EVACUATION ZONE.
14. ALL WIRING SHALL BE IN CONDUIT (3/4" MINIMUM) - EXCEPT AS NOTED.
15. COORDINATE EQUIPMENT INSTALLATION WITH ARCHITECTURAL DOCUMENTS INCLUDING ELEVATIONS, REFLECTED CEILING PLANS AND DETAILS.
16. CONTRACTOR SHALL PROVIDE 120VAC EMERGENCY ELECTRICAL POWER TO ALL FIRE ALARM CONTROL PANELS AND RELATED DEVICES.
17. EXCEPT WHERE DESIGNATED AS WEATHERPROOF "WP" DEVICES, ALL DEVICES AND EQUIPMENT SHALL BE LOCATED IN A CONDITIONED SPACE.

KEY NOTES:

1. DUCT SMOKE DETECTOR INTERFACE - SEE DETAIL #3, KEYNOTE #1 ON SHEET FA-600 FOR ADDITIONAL INFORMATION
2. AHU DUCT SMOKE DETECTOR INTERFACE - SEE DETAIL #4, KEYNOTE #2 ON SHEET FA-600 FOR ADDITIONAL INFORMATION.
3. TWO-WAY (EMERGENCY) COMMUNICATIONS SYSTEM - SEE DETAIL #8 ON SHEET FA-600 FOR ADDITIONAL INFORMATION.
4. FAN CONTROL-MANUAL OVERRIDE INTERFACE - SEE DETAIL #7 ON SHEET FA-600 FOR ADDITIONAL INFORMATION.
5. EMERGENCY ELEVATOR INTERFACE - SEE DETAIL #5 ON SHEET FA-600 FOR ADDITIONAL INFORMATION.

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ISSUE/REVISION:

NO.	DATE	COMMENTS
1	2015-04-20	BID ADDENDUM 03

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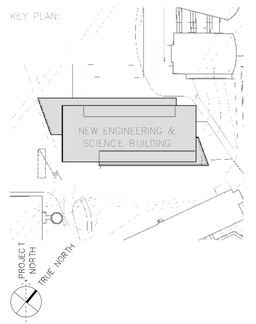
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

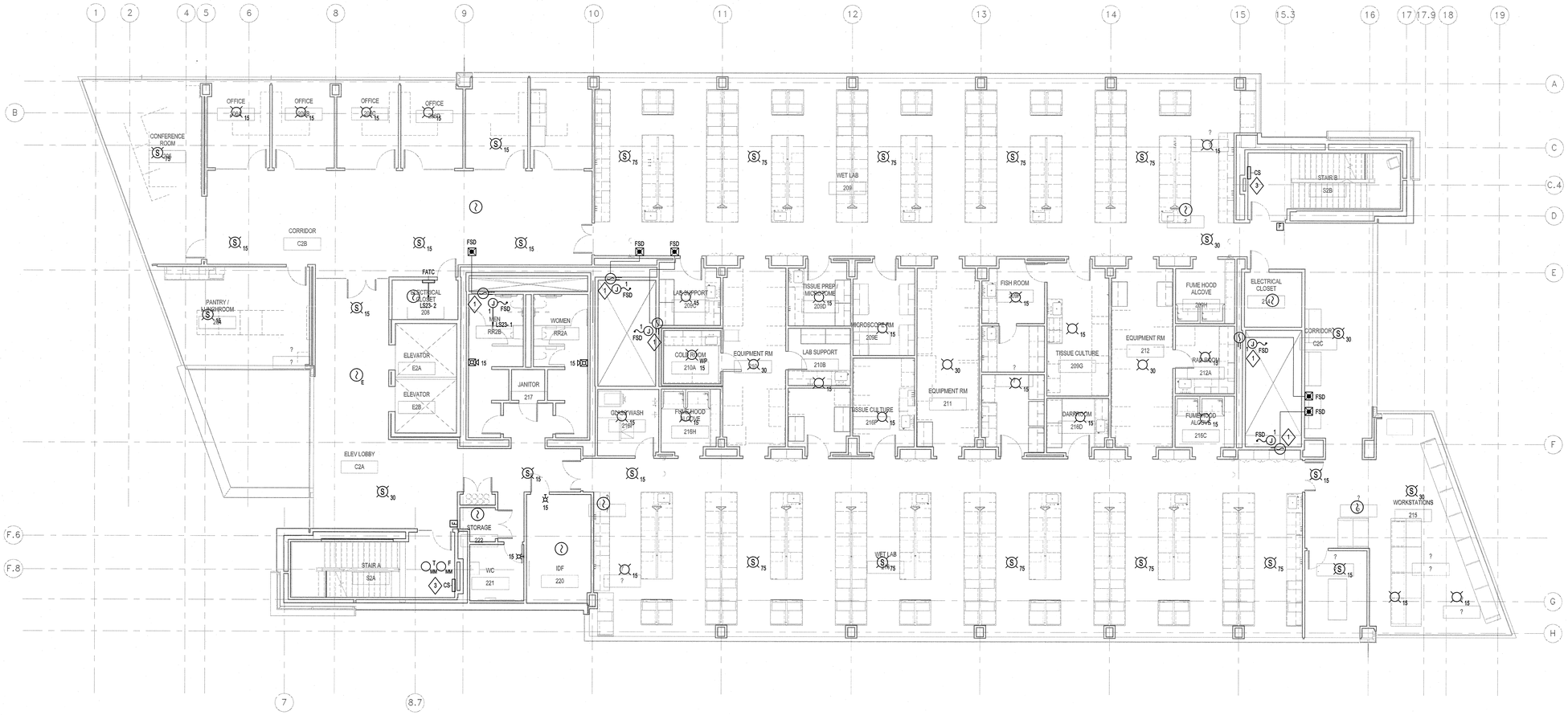
DRAWING TITLE:

FIRE ALARM FLOOR 1 PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

FA-401

CONFORMED SET: 05/29/2015



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KEY NOTES:

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ISSUE/REVISION:

NO.	DATE	COMMENTS

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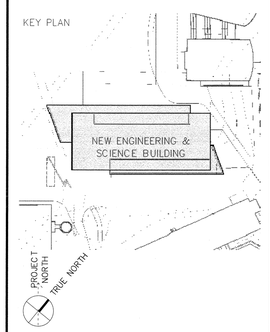
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

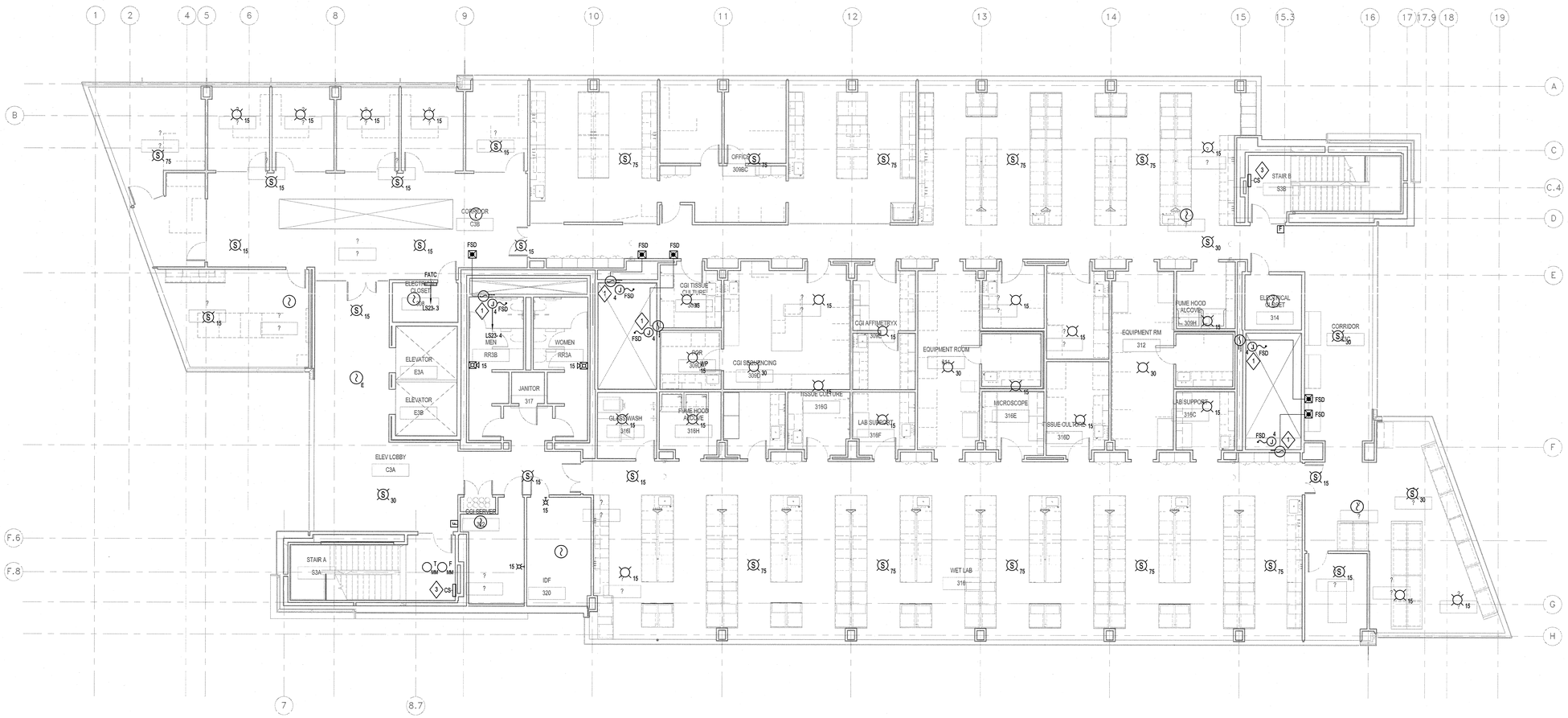
Drawing Title:

FIRE ALARM FLOOR 2 PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

FA-402

CONFORMED SET: 05/29/2015



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KEY NOTES:

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ISSUE/REVISION:

NO.	DATE	COMMENTS

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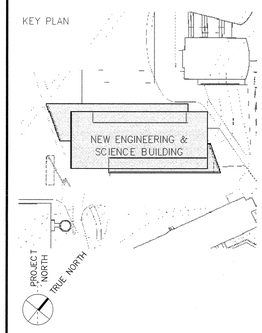


Project:

NEW ENGINEERING AND SCIENCE BUILDING

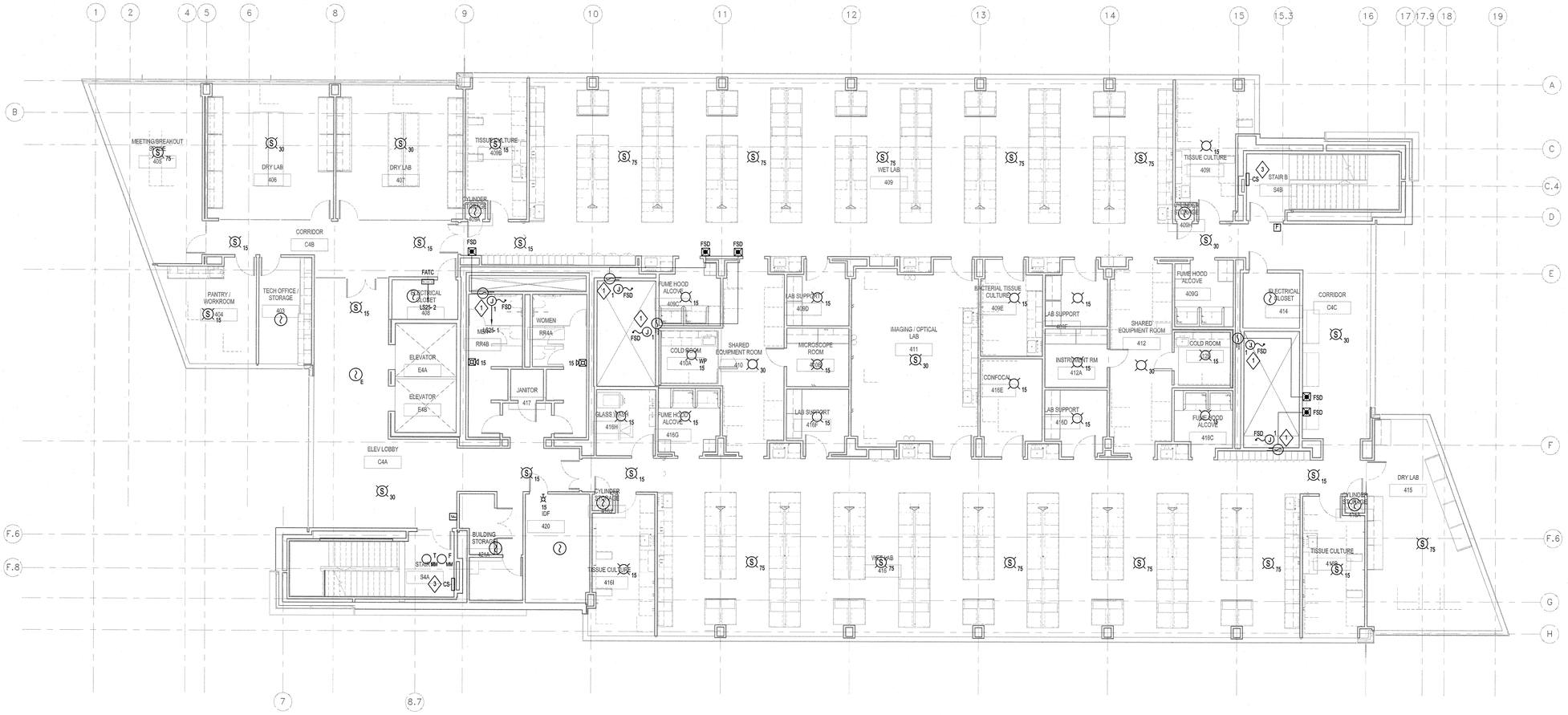
Drawing Title:

FIRE ALARM FLOOR 3 PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

FA-403

CONFORMED SET 05/29/2015



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UNIVERSITY OF CONNECTICUT

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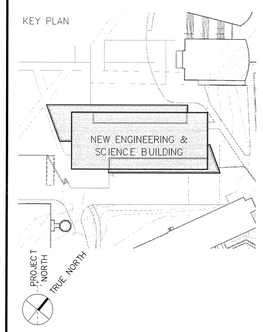


Project:

NEW ENGINEERING AND SCIENCE BUILDING

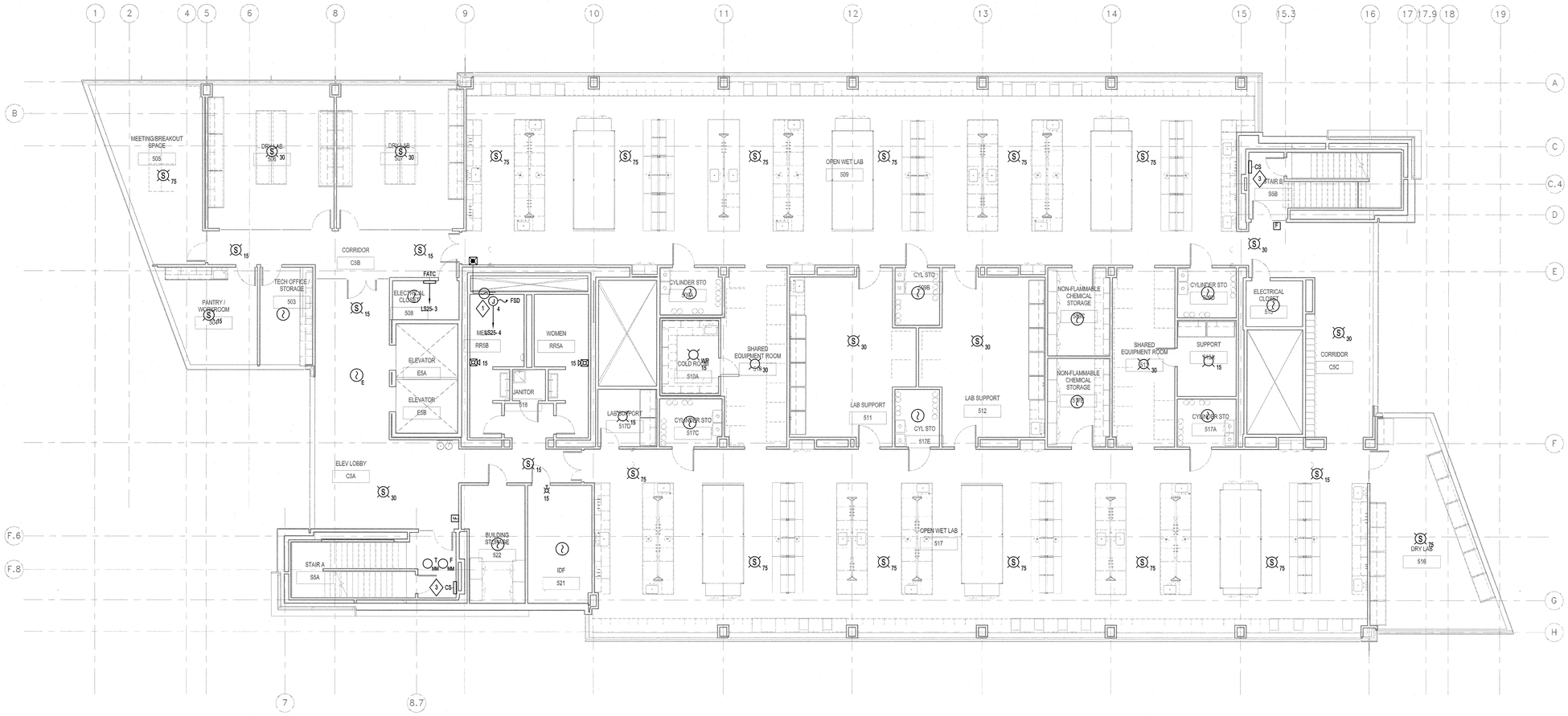
Drawing Title:

FIRE ALARM FLOOR 4 PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

CONFORMED SET: 05/29/2015

FA-404



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14. ALL WIRING SHALL BE IN CONDUIT (3/4" MINIMUM) - EXCEPT AS NOTED.
15. COORDINATE EQUIPMENT INSTALLATION WITH ARCHITECTURAL DOCUMENTS INCLUDING ELEVATIONS, REFLECTED CEILING PLANS AND DETAILS.
16. CONTRACTOR SHALL PROVIDE 120VAC EMERGENCY ELECTRICAL POWER TO ALL FIRE ALARM CONTROL PANELS AND RELATED DEVICES.
17. EXCEPT WHERE DESIGNATED AS WEATHERPROOF "WP" DEVICES, ALL DEVICES AND EQUIPMENT SHALL BE LOCATED IN A CONDITIONED SPACE.

KEY NOTES:

1. DUCT SMOKE DETECTOR INTERFACE - SEE DETAIL #3, KEYNOTE #1 ON SHEET FA-600 FOR ADDITIONAL INFORMATION
2. AHU DUCT SMOKE DETECTOR INTERFACE - SEE DETAIL #4, KEYNOTE #2 ON SHEET FA-600 FOR ADDITIONAL INFORMATION.
3. TWO-WAY (EMERGENCY) COMMUNICATIONS SYSTEM - SEE DETAIL #8 ON SHEET FA-600 FOR ADDITIONAL INFORMATION.
4. FAN CONTROL-MANUAL OVERRIDE INTERFACE - SEE DETAIL #7 ON SHEET FA-600 FOR ADDITIONAL INFORMATION.
5. EMERGENCY ELEVATOR INTERFACE - SEE DETAIL #5 ON SHEET FA-600 FOR ADDITIONAL INFORMATION.

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ISSUE/REVISION:

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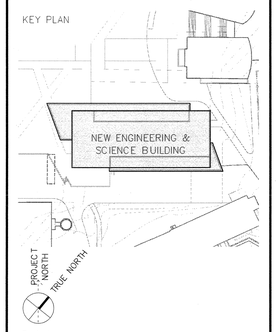
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

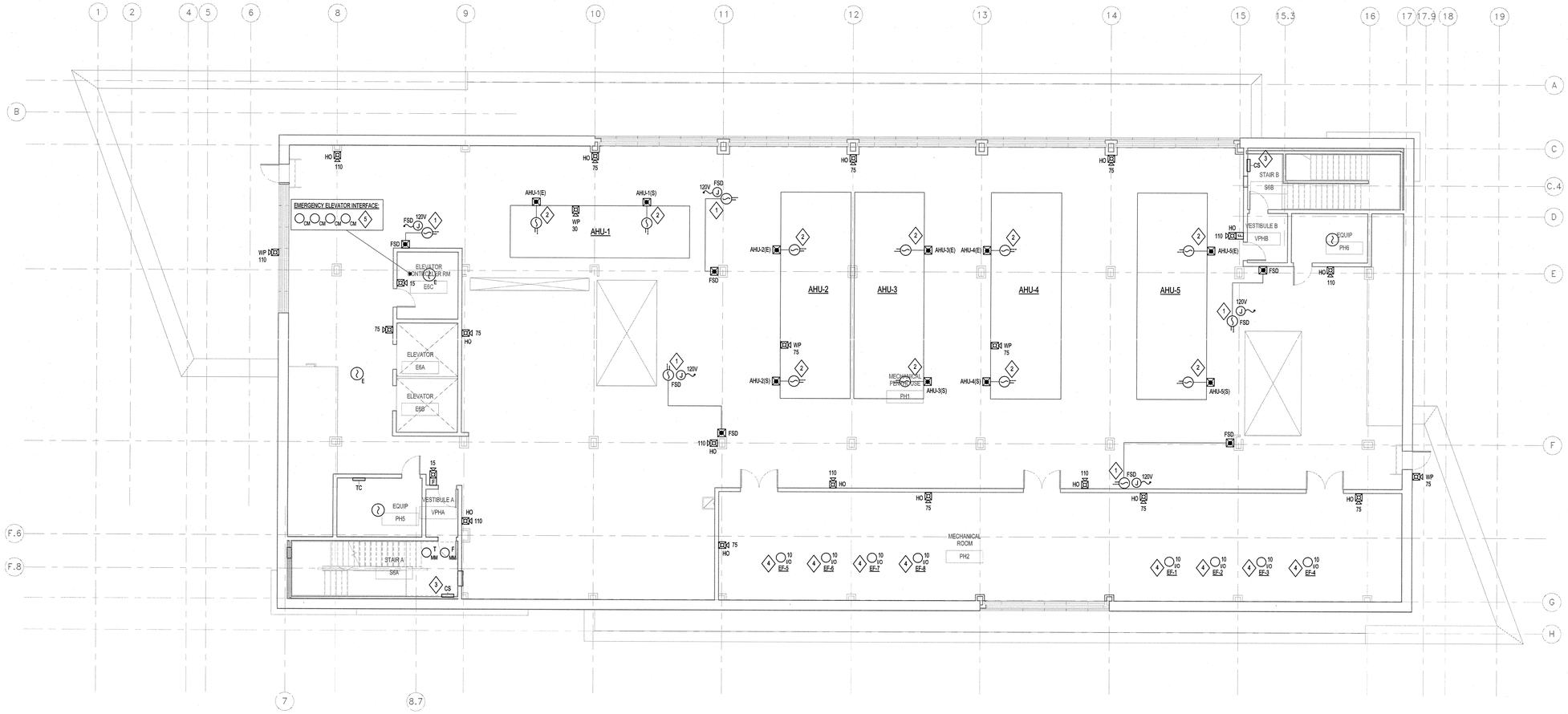
Drawing Title:

FIRE ALARM FLOOR 5 PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

FA-405

CONFORMED SET: 05/29/2015



GENERAL NOTES:

1. CONSULT THE PROJECT SPECIFICATIONS AND PROJECT NARRATIVE FOR ADDITIONAL INFORMATION REGARDING SYSTEM DESIGN, INTENDED PERFORMANCE, PRODUCTS AND INSTALLATION.
2. DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF BR+A CONSULTING ENGINEERS, LLC.
3. CONSULT MANUFACTURER'S APPROVED SHOP DRAWINGS AND INSTALLATION MANUALS FOR ADDITIONAL INFORMATION.
4. ALL INSTALLATION WORK SHALL CONFORM WITH THE REQUIREMENTS OF NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (2002 EDITION) AND NFPA 70 THE NATIONAL ELECTRICAL CODE (2014 EDITION). THE CONTRACTOR SHALL KEEP A COPY OF EACH ON THE JOB SITE.
5. WHERE EQUIPMENT MUST BE INSTALLED ON SUSPENDED CEILINGS OR BETWEEN BUILDING STRUCTURAL COMPONENTS, ADEQUATE FIXTURE BARS OR OTHER SUPPORT SHALL BE PROVIDED.
6. CONTROL UNITS SHALL BE INSTALLED SO THAT WORKING CLEARANCES ARE MAINTAINED AROUND THE UNITS IN ACCORDANCE WITH NFPA 70 NATIONAL ELECTRICAL CODE (2014).
7. ALL WIRING WITHIN CONTROL EQUIPMENT SHALL BE INSTALLED SO THAT WIRING AND EQUIPMENT ARE ACCESSIBLE. WIRING SHALL BE INSTALLED SO THAT EQUIPMENT CAN BE SERVICED OR REMOVED WITHOUT DISCONNECTING OR MOVING UNRELATED CIRCUITS. ALL WIRING WITHIN CONTROL UNITS, JUNCTION BOXES, AND TERMINAL CABINETS SHALL BE NEATLY TRIMMED, DRESSED, LABELED, AND INSTALLED IN GUTTERS OR CHANNELS. WIRING IN CONTROL UNITS AND TERMINAL CABINETS SHALL BE INSTALLED PARALLEL TO OR AT RIGHT ANGLES TO THE SIDES AND BACK OF THE ENCLOSURE.
8. REFER TO LEGEND FA-001, DETAIL SHEET FA-600, AND RISER DIAGRAM FA-600 FOR ADDITIONAL REQUIREMENTS.
9. REFER TO MECHANICAL/HVAC DRAWINGS TO COORDINATE QUANTITIES AND LOCATIONS OF ALL EQUIPMENT AND DEVICES TO BE INTEGRATED WITH THE FIRE ALARM SYSTEM.
10. REFER TO FIRE PROTECTION DRAWINGS FOR EXACT QUANTITIES AND LOCATIONS OF RELATED SYSTEMS AND DEVICES.
11. ALL CIRCUITS SHALL BE DERIVED FROM LOCAL FIRE ALARM CONTROL PANEL AND WIRED TO TERMINAL CABINETS ON EACH FLOOR AS SHOWN ON THE RISER DIAGRAM.
12. REFER TO FIRE ALARM SPECIFICATION 283110 FOR WIRING REQUIREMENTS.
13. CIRCUITS SHALL BE INDIVIDUALLY ISOLATED SO THAT A WIRING FAULT WILL NOT AFFECT THE OPERATION OF CIRCUITS SERVING ANY OTHER FLOOR OR EVACUATION ZONE.
14. ALL WIRING SHALL BE IN CONDUIT (3/4" MINIMUM) - EXCEPT AS NOTED.
15. COORDINATE EQUIPMENT INSTALLATION WITH ARCHITECTURAL DOCUMENTS INCLUDING ELEVATIONS, REFLECTED CEILING PLANS AND DETAILS.
16. CONTRACTOR SHALL PROVIDE 120VAC EMERGENCY ELECTRICAL POWER TO ALL FIRE ALARM CONTROL PANELS AND RELATED DEVICES.
17. EXCEPT WHERE DESIGNATED AS WEATHERPROOF "WP" DEVICES, ALL DEVICES AND EQUIPMENT SHALL BE LOCATED IN A CONDITIONED SPACE.

KEY NOTES:

1. DUCT SMOKE DETECTOR INTERFACE - SEE DETAIL #3, KEYNOTE #1 ON SHEET FA-600 FOR ADDITIONAL INFORMATION
2. AHU DUCT SMOKE DETECTOR INTERFACE - SEE DETAIL #4, KEYNOTE #2 ON SHEET FA-600 FOR ADDITIONAL INFORMATION.
3. TWO-WAY (EMERGENCY) COMMUNICATIONS SYSTEM - SEE DETAIL #8 ON SHEET FA-600 FOR ADDITIONAL INFORMATION.
4. FAN CONTROL-MANUAL OVERRIDE INTERFACE - SEE DETAIL #7 ON SHEET FA-600 FOR ADDITIONAL INFORMATION.
5. EMERGENCY ELEVATOR INTERFACE - SEE DETAIL #5 ON SHEET FA-600 FOR ADDITIONAL INFORMATION.

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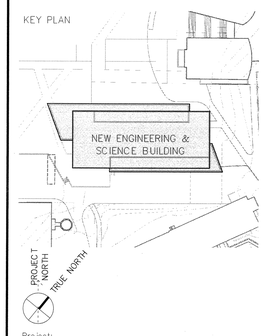
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

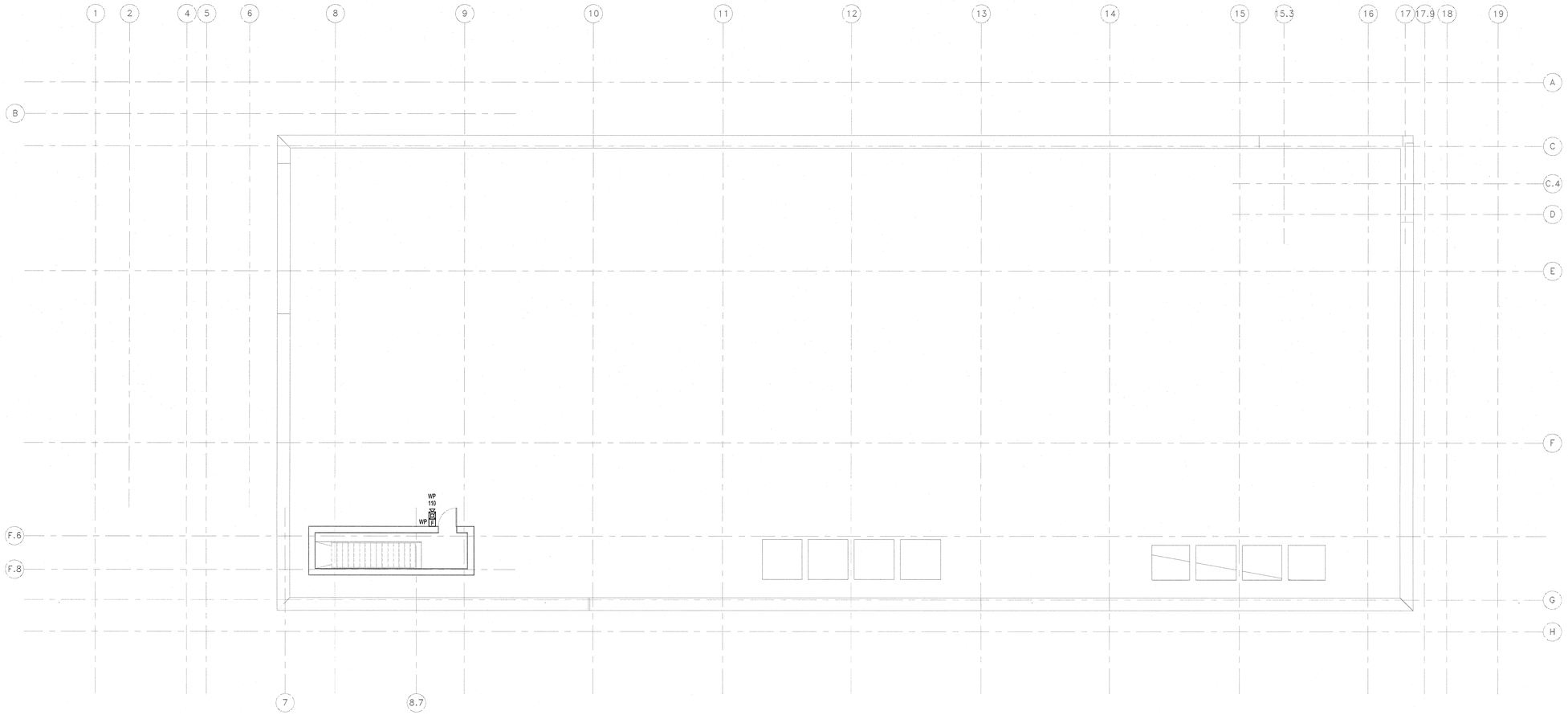
Drawing Title:

FIRE ALARM PENTHOUSE PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

FA-406

CONFORMED SET: 05/29/2015



GENERAL NOTES:

1. CONSULT THE PROJECT SPECIFICATIONS AND PROJECT NARRATIVE FOR ADDITIONAL INFORMATION REGARDING SYSTEM DESIGN, INTENDED PERFORMANCE, PRODUCTS AND INSTALLATION.
2. DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF BR+A CONSULTING ENGINEERS, LLC.
3. CONSULT MANUFACTURER'S APPROVED SHOP DRAWINGS AND INSTALLATION MANUALS FOR ADDITIONAL INFORMATION.
4. ALL INSTALLATION WORK SHALL CONFORM WITH THE REQUIREMENTS OF NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (2002 EDITION) AND NFPA 70 THE NATIONAL ELECTRICAL CODE (2014 EDITION). THE CONTRACTOR SHALL KEEP A COPY OF EACH ON THE JOB SITE.
5. WHERE EQUIPMENT MUST BE INSTALLED ON SUSPENDED CEILINGS OR BETWEEN BUILDING STRUCTURAL COMPONENTS, ADEQUATE FIXTURE BARS OR OTHER SUPPORT SHALL BE PROVIDED.
6. CONTROL UNITS SHALL BE INSTALLED SO THAT WORKING CLEARANCES ARE MAINTAINED AROUND THE UNITS IN ACCORDANCE WITH NFPA 70 NATIONAL ELECTRICAL CODE (2014).
7. ALL WIRING WITHIN CONTROL EQUIPMENT SHALL BE INSTALLED SO THAT WIRING AND EQUIPMENT ARE ACCESSIBLE. WIRING SHALL BE INSTALLED SO THAT EQUIPMENT CAN BE SERVICED OR REMOVED WITHOUT DISCONNECTING OR MOVING UNRELATED CIRCUITS. ALL WIRING WITHIN CONTROL UNITS, JUNCTION BOXES, AND TERMINAL CABINETS SHALL BE NEATLY TRIMMED, DRESSED, LABELED, AND INSTALLED IN GUTTERS OR CHANNELS. WIRING IN CONTROL UNITS AND TERMINAL CABINETS SHALL BE INSTALLED PARALLEL TO OR AT RIGHT ANGLES TO THE SIDES AND BACK OF THE ENCLOSURE.
8. REFER TO LEGEND FA-001, DETAIL SHEET FA-600, AND RISER DIAGRAM FA-500 FOR ADDITIONAL REQUIREMENTS.
9. REFER TO MECHANICAL/HVAC DRAWINGS TO COORDINATE QUANTITIES AND LOCATIONS OF ALL EQUIPMENT AND DEVICES TO BE INTEGRATED WITH THE FIRE ALARM SYSTEM.
10. REFER TO FIRE PROTECTION DRAWINGS FOR EXACT QUANTITIES AND LOCATIONS OF RELATED SYSTEMS AND DEVICES.
11. ALL CIRCUITS SHALL BE DERIVED FROM LOCAL FIRE ALARM CONTROL PANEL AND WIRED TO TERMINAL CABINETS ON EACH FLOOR AS SHOWN ON THE RISER DIAGRAM.
12. REFER TO FIRE ALARM SPECIFICATION 283110 FOR WIRING REQUIREMENTS.
13. CIRCUITS SHALL BE INDIVIDUALLY ISOLATED SO THAT A WIRING FAULT WILL NOT AFFECT THE OPERATION OF CIRCUITS SERVING ANY OTHER FLOOR OR EVACUATION ZONE.
14. ALL WIRING SHALL BE IN CONDUIT (3/4" MINIMUM) - EXCEPT AS NOTED.
15. COORDINATE EQUIPMENT INSTALLATION WITH ARCHITECTURAL DOCUMENTS INCLUDING ELEVATIONS, REFLECTED CEILING PLANS AND DETAILS.
16. CONTRACTOR SHALL PROVIDE 120VAC EMERGENCY ELECTRICAL POWER TO ALL FIRE ALARM CONTROL PANELS AND RELATED DEVICES.
17. EXCEPT WHERE DESIGNATED AS WEATHERPROOF "WP" DEVICES, ALL DEVICES AND EQUIPMENT SHALL BE LOCATED IN A CONDITIONED SPACE.

KEY NOTES:

1. DUCT SMOKE DETECTOR INTERFACE - SEE DETAIL #3, KEYNOTE #1 ON SHEET FA-600 FOR ADDITIONAL INFORMATION
2. AHU DUCT SMOKE DETECTOR INTERFACE - SEE DETAIL #4, KEYNOTE #2 ON SHEET FA-600 FOR ADDITIONAL INFORMATION.
3. TWO-WAY (EMERGENCY) COMMUNICATIONS SYSTEM - SEE DETAIL #9 ON SHEET FA-600 FOR ADDITIONAL INFORMATION.
4. FAN CONTROL-MANUAL OVERRIDE INTERFACE - SEE DETAIL #7 ON SHEET FA-600 FOR ADDITIONAL INFORMATION.
5. EMERGENCY ELEVATOR INTERFACE - SEE DETAIL #5 ON SHEET FA-600 FOR ADDITIONAL INFORMATION.

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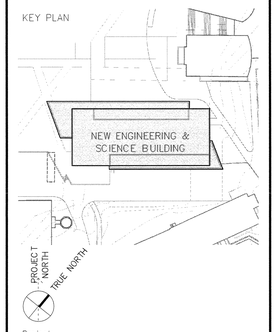
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

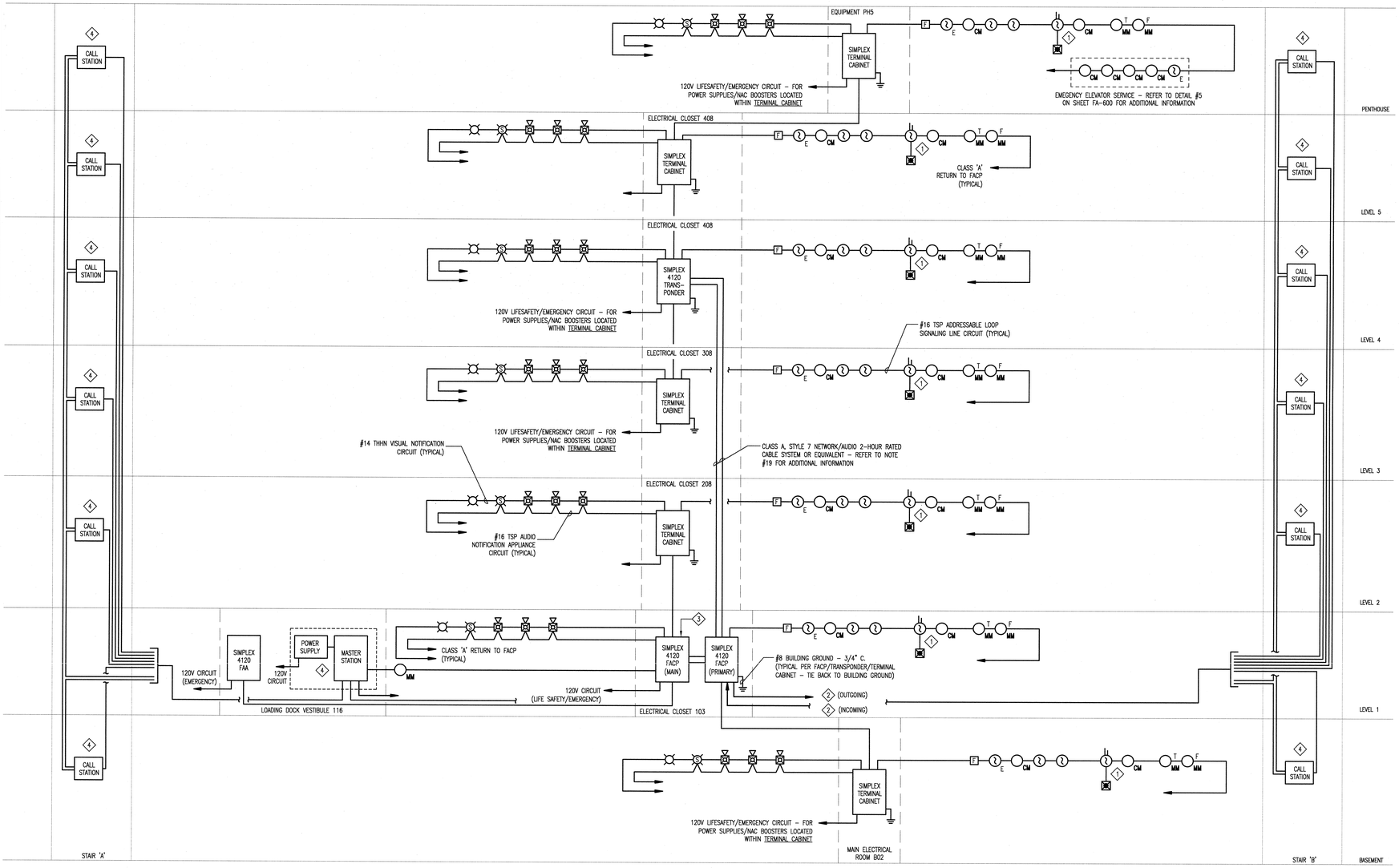
Drawing Title:

FIRE ALARM ROOFTOP PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

FA-407

CONFORMED SET: 05/29/2015



FIRE ALARM SYSTEM RISER DIAGRAM

SCALE : NTS

FIRE ALARM RISER DIAGRAM NOTES:

1. CONSULT THE PROJECT SPECIFICATIONS AND PROJECT NARRATIVE FOR ADDITIONAL INFORMATION REGARDING SYSTEM DESIGN, INTENDED PERFORMANCE, PRODUCTS AND INSTALLATION.
2. DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF BR+A CONSULTING ENGINEERS, LLC.
3. CONSULT MANUFACTURER'S APPROVED SHOP DRAWINGS AND INSTALLATION MANUALS FOR ADDITIONAL INFORMATION.
4. ALL INSTALLATION WORK SHALL CONFORM WITH THE REQUIREMENTS OF NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (2002 EDITION) AND NFPA 70 THE NATIONAL ELECTRICAL CODE (2014 EDITION). THE CONTRACTOR SHALL KEEP A COPY OF EACH ON THE JOB SITE.
5. PANEL MOUNTING SHALL BE SUCH THAT ALL SWITCHES AND OPERATOR CONTROLS ARE NO LESS THAN 36 INCHES AND NO MORE THAN 72 INCHES ABOVE THE FINISHED FLOOR.
6. CONTROL UNITS SHALL BE INSTALLED SO THAT WORKING CLEARANCES ARE MAINTAINED AROUND THE UNITS IN ACCORDANCE WITH NFPA 70 THE NATIONAL ELECTRICAL CODE (2014 EDITION).
7. ALL WIRING WITHIN CONTROL EQUIPMENT SHALL BE INSTALLED SO THAT WIRING AND EQUIPMENT ARE ACCESSIBLE. WIRING SHALL BE INSTALLED SO THAT EQUIPMENT CAN BE SERVICED OR REMOVED WITHOUT DISCONNECTING OR MOVING UNRELATED CIRCUITS. ALL WIRING WITHIN CONTROL UNITS, JUNCTION BOXES, AND TERMINAL CABINETS SHALL BE NEATLY TRIMMED, DRESSED, LABELED, AND INSTALLED IN GUTTERS OR CHANNELS. WIRING IN CONTROL UNITS AND TERMINAL CABINETS SHALL BE INSTALLED PARALLEL TO OR AT RIGHT ANGLES TO THE SIDES AND BACK OF THE ENCLOSURE.
8. SEE SPECIFICATIONS FOR MAXIMUM ALLOWABLE CIRCUIT LOADING AND WIRE SIZE REQUIREMENTS AND COORDINATE WITH THE SYSTEM SUPPLIER'S SHOP DRAWINGS.
9. ALL CONNECTIONS TO CONTROLS, DEVICES, AND APPLIANCES SHALL BE MADE TO TERMINALS OR PIGTAILS THAT ARE AN INTEGRAL PART OF THE CONTROL, DEVICE, OR APPLIANCE. FIELD MANUFACTURED PIGTAIL LEADS SHALL NOT BE ALLOWED.
10. THE COVERS OF ALL JUNCTION BOXES AND THE INTERIOR OF DEVICE ENCLOSURES SHALL BE PERMANENTLY IDENTIFIED RED IF PIPING AND FITTINGS WILL NOT BE EXPOSED. SEE SPECIFICATIONS FOR EXCEPTIONS AND ADDITIONAL LABELING REQUIREMENTS.
11. PENETRATIONS MADE OR USED (IF ALREADY EXISTING) IN ANY FIRE RATED BARRIER SHALL BE FILLED AND PATCHED WITH A MATERIAL THAT PROVIDES A FIRE RATING EQUAL TO OR GREATER THAN THE PENETRATED ASSEMBLY. PROPRIETARY FILLER MATERIALS MUST BE APPROVED OR LISTED AS FIRE-RATED FILLER MATERIALS. PRIOR TO USING SUCH MATERIALS, SUBMIT COMPLETE MANUFACTURER'S INFORMATION FOR APPROVAL.
12. RISER DIAGRAM IS PARTIAL AND DOES NOT SHOW THE ENTIRE SYSTEM. REFER TO FLOOR PLANS FOR EXACT LOCATIONS AND QUANTITIES OF ALL EQUIPMENT AND DEVICES.
13. THIS DRAWING DEPICTS SCHEMATIC INTERCONNECTIONS OF WIRING. EXACT ROUTING OF CONDUITS ARE TO BE DETERMINED IN THE FIELD BY THE INSTALLING CONTRACTOR TO SUIT FIELD CONDITIONS AND AS SUBMITTED IN THE SHOP DRAWINGS. ALL CHANGES SHALL BE CLEARLY INDICATED ON THE RECORD DRAWINGS.
14. THE MAIN FIRE ALARM CONTROL PANEL WILL PROVIDE THE PRIMARY OPERATOR'S INTERFACE WITH LCD DISPLAY, AUDIO CONTROL/MICROPHONE AND A MATRIX OF LEDS AND SWITCHES FOR COMPLETE SYSTEM ANNUNCIATION AND CONTROL.
15. ALL FIRE ALARM CONTROL PANELS SHALL INCLUDE DISTRIBUTED AMPLIFIERS, POWER SUPPLIES AND ADDRESSABLE LOOP INTERFACE CARDS SIZED TO SERVE THE AREAS SHOWN AND WILL OPERATE ON A STANDALONE BASIS IN THE EVENT OF A COMMUNICATIONS FAILURE.
16. PROVIDE THE FOLLOWING MINIMUM CIRCUIT ALLOWANCES PER FLOOR:
    ONE (1) ISOLATED SIGNALING LINE CIRCUIT (SLC) BRANCH
    TWO (2) AUDIO NOTIFICATION APPLIANCE CIRCUITS (NAC)
    FOUR (4) 24V VISUAL NACS
    TWO (2) AUXILIARY 24V POWER CIRCUITS
    TWO (2) 24V DOOR HOLDER CIRCUITS
17. ALL ADDRESSABLE LOOP AND NOTIFICATION APPLIANCE CIRCUIT WIRING SHALL BE WIRED CLASS 'A' CIRCUITS WITH PATHWAY SURVIVABILITY AS SHOWN AND SPECIFIED, AND IN ACCORDANCE WITH APPLICABLE CODE.
18. CIRCUITS SHALL BE INDIVIDUALLY ISOLATED SO THAT A SINGLE WIRING FAULT WILL NOT EFFECT THE OPERATION OF CIRCUIT(S) SERVING ANY OTHER FLOOR.
19. ALL VERTICAL RISERS AND NETWORK WIRING – INCLUDING DATA COMMUNICATIONS AND AUDIO COMMUNICATIONS – SHALL BE WIRED CLASS X (CLASS A, STYLE 7) WITH SEPARATE OUTGOING AND RETURN LOOPS, AND A MINIMUM LEVEL 2 PATHWAY SURVIVABILITY.
20. CIRCUITS SHALL BE PROTECTED FROM THE POINT OF ORIGIN TO THE FIRST DEVICE AND FROM THE LAST DEVICE LOCATED IN THE EVACUATION AREA SERVED, BY A 2-HOUR RATED ENCLOSURE OR CABLE ASSEMBLY (LEVEL 2 PATHWAY SURVIVABILITY).
21. INSERT HORIZONTAL FLOOR WIRING OF SIGNALING LINE CIRCUIT AND NOTIFICATION APPLIANCE CIRCUIT WITHIN AN EVACUATION ZONE SHALL BE MINIMUM, LEVEL 1 PATHWAY SURVIVABILITY.
22. FIRE ALARM CONTROL PANELS AND TERMINAL CABINETS SHALL BE CONFIGURED TO SERVE THE FLOOR AREAS SHOWN. EQUIPMENT CABINET SIZES, QUANTITY, AND LOCATIONS MAY VARY DEPENDING UPON ACTUAL SITE CONDITIONS AND MUST BE COORDINATED BY THE INSTALLING CONTRACTOR.
23. REFER TO THE FIRE PROTECTION DRAWINGS AND DETAILS FOR EXACT LOCATIONS OF FLOW, TAMPER, AND RELATED DEVICES TO BE INTERCONNECTED WITH THE FIRE ALARM SYSTEM.
24. REFER TO THE MECHANICAL/HVAC DRAWINGS AND DETAILS FOR EXACT QUANTITIES AND LOCATIONS OF ALL EQUIPMENT TO BE INTERCONNECTED WITH THE FIRE ALARM SYSTEM. REFER TO SPECIFICATIONS FOR SMOKE CONTROL SEQUENCE OF OPERATION AND RELATED INTERFACE DETAILS.
25. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVAL FOR, AND MAKING ALL NECESSARY ADJUSTMENTS IN CIRCUITING AS REQUIRED TO ACCOMMODATE THE RELOCATION OF EQUIPMENT AND/OR DEVICES WHICH ARE EFFECTED BY AN AUTHORIZED CHANGE OR FIELD INSTALLATION REQUIREMENTS.
26. ALL FIRE ALARM WIRING SHALL BE IN CONDUIT (¾" MINIMUM) UNLESS OTHERWISE NOTED.
27. ELECTRICAL CONTRACTOR TO PROVIDE 120 VAC EMERGENCY ELECTRICAL POWER TO ALL FIRE ALARM CONTROL PANELS AND RELATED EQUIPMENT; COORDINATE WITH RELATED ELECTRICAL PANEL SCHEDULES.

FIRE ALARM RISER DIAGRAM KEY NOTES:

1. PROVIDE CONTROL MODULES AND RELAYS TO CONTROL ALL SMOKE AND COMBINATION FIRE/SMOKE DAMPERS. REFER TO THE LIFE SAFETY PLANS AND FLOOR PLANS FOR ADDITIONAL INFORMATION.
2. PROVIDE DEDICATED CONTINUOUS COPPER CABLING AND INTEGRATION WITH THE EXISTING UCONN PROPRIETARY CAMPUS FIRE ALARM NETWORK. THE CONTRACTOR SHALL RETAIN THE SERVICES OF THE EXISTING SYSTEM SERVICE COMPANY OF RECORD (SIMPLEXGRINNELL) AND A QUALIFIED MANUFACTURER'S REPRESENTATIVE TO STARTUP, PROGRAM, AND TEST THE SYSTEM TO ENSURE NETWORK-WIDE ANNUNCIATION AND CONTROL OF ALL SYSTEM EVENTS FROM THE EXISTING CAMPUS SUPERVISING STATION OPERATOR'S WORKSTATIONS.
3. PROVIDE COPPER NETWORK CARDS WITHIN THE NEW 4120 MAIN PANEL SERVING THE NESB.
4. REFER TO TWO-WAY EMERGENCY COMMUNICATION SYSTEM DETAIL #8 ON SHEET FA-600 FOR ADDITIONAL INFORMATION. THE EXACT LOCATION OF THE CALL STATION SHALL BE COORDINATED WITH OTHER TRADES AND SHALL FOLLOW LAYOUT INDICATED ON ARCHITECTURAL DRAWINGS.

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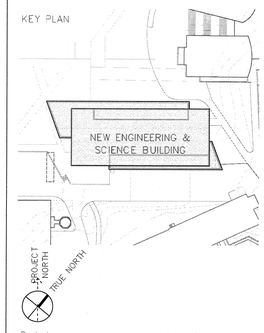
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

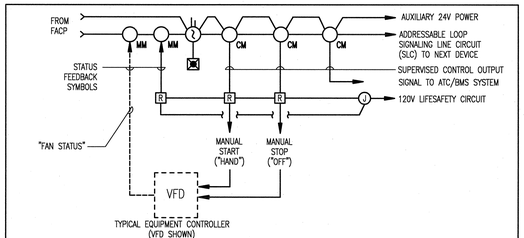
Drawing Title:

FIRE ALARM RISER DIAGRAM

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: N.T.S.

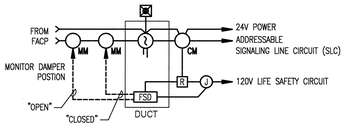
CONFORMED SET 05/29/2015

FA-500



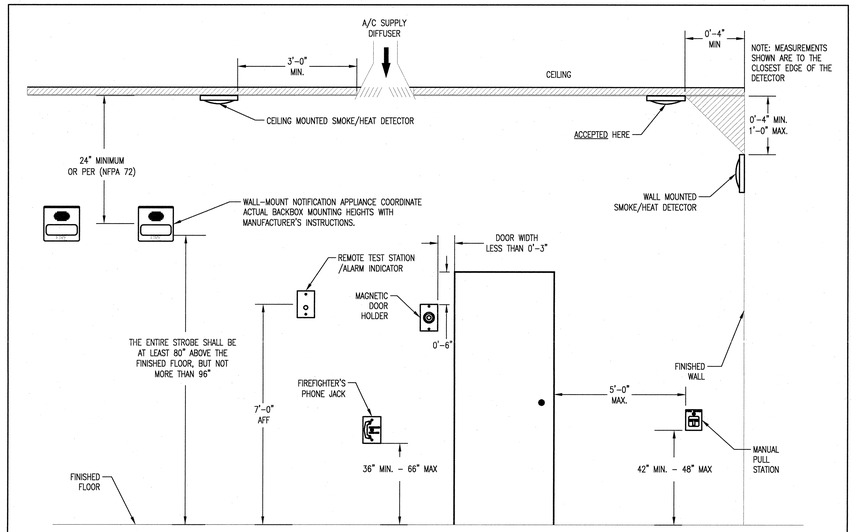
1. PROVIDE CONTROL OUTPUT SIGNALS AND APPROPRIATELY RATED MULTI-VOLTAGE RELAYS TO THE EQUIPMENT CONTROLLER (SUCH VFD OR MCC) FOR EACH CONTROLLED DEVICE AS SHOWN.
2. PROVIDE STATUS FEEDBACK SUPERVISION FOR EACH DEVICE CONDITION (STOP/START), INCLUDING SUPERVISION OF THE CONTROL CIRCUIT POWER AS SHOWN.
3. UNSUPERVISED RELAYS SHALL BE LOCATED WITHIN 3' OF THE CONTROLLED DEVICE.
4. REFER TO FLOOR PLANS AND EQUIPMENT SCHEDULES FOR ACTUAL LOCATIONS AND QUANTITIES OF DUCT SMOKE DETECTORS – COORDINATE WITH HVAC REQUIREMENTS FOR EXACT SEQUENCING AND OPERATION.

6 AHU CONTROL INTERFACE DETAIL – AUTOMATIC CONTROL WITH MANUAL OVERRIDE



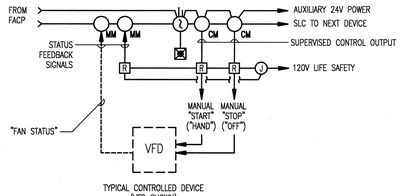
1 FIRE/SMOKE OR SMOKE DAMPER – PROVIDE THE FOLLOWING AT EACH LOCATION IDENTIFIED: 120 VOLT CIRCUIT FROM THE LIFE SAFETY/EMERGENCY PANELBOARD AS INDICATED ON THE RISER DIAGRAM, SMOKE DETECTOR LOCATED IN THE DUCT, WITH ASSOCIATED CONTROL MODULE/RELAY AND MONITOR MODULES.

3 SMOKE DAMPER INTERFACE DETAIL



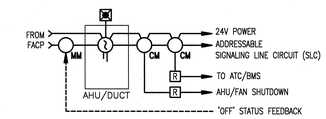
1 FIRE ALARM DEVICE MOUNTING

NOT TO SCALE



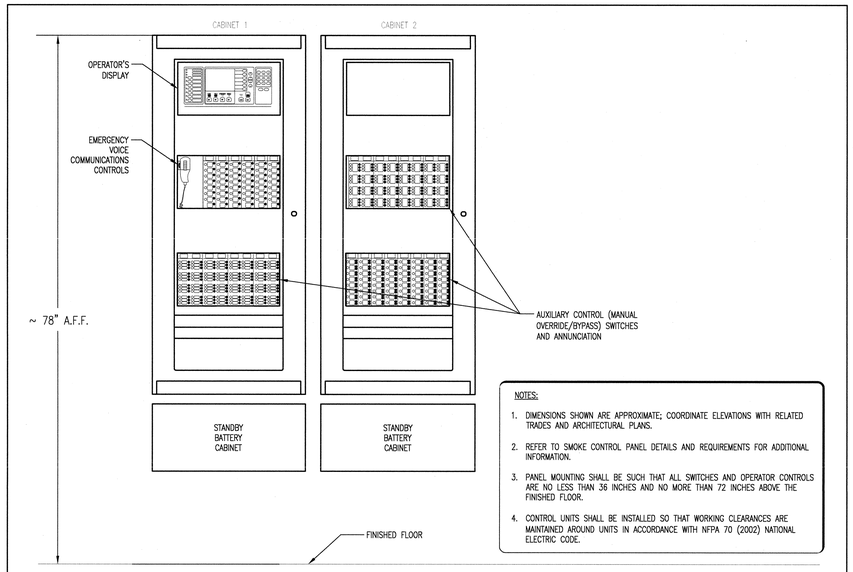
1. PROVIDE CONTROL OUTPUT SIGNALS AND APPROPRIATELY-RATED MULTI-VOLTAGE RELAYS FOR EACH CONTROLLED DEVICE SUBJECT TO MANUAL OVERRIDE FROM FACP/FCC. (i.e. STOP/START FOR FANS, OPEN/CLOSE FOR DAMPERS).
2. PROVIDE STATUS FEEDBACK FOR EACH CONTROLLED DEVICE CONDITION, INCLUDING SUPERVISION OF THE CONTROL CIRCUIT POWER.

7 FAN CONTROL – MANUAL OVERRIDE INTERFACE DETAIL



2 FAN/AHU SHUTDOWN – PROVIDE THE FOLLOWING AT EACH LOCATION IDENTIFIED: 120 VOLT CIRCUIT FROM THE LIFE SAFETY/EMERGENCY PANELBOARD AS INDICATED ON THE RISER DIAGRAM, SMOKE DETECTOR LOCATED IN THE DUCT/UNIT, TWO (2) ASSOCIATED CONTROL/RELAY MODULES AND MONITOR MODULE.

4 AHU DUCT SMOKE DETECTOR INTERFACE DETAIL

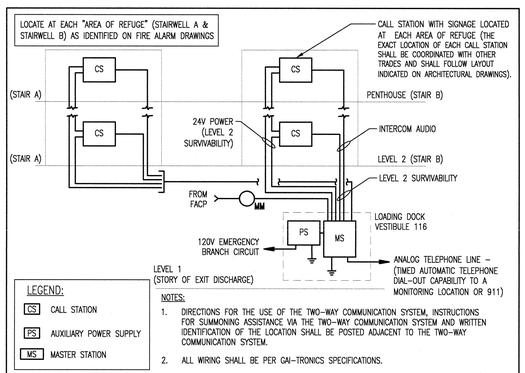


NOTES:

1. DIMENSIONS SHOWN ARE APPROXIMATE; COORDINATE ELEVATIONS WITH RELATED TRADES AND ARCHITECTURAL PLANS.
2. REFER TO SMOKE CONTROL PANEL DETAILS AND REQUIREMENTS FOR ADDITIONAL INFORMATION.
3. PANEL MOUNTING SHALL BE SUCH THAT ALL SWITCHES AND OPERATOR CONTROLS ARE NO LESS THAN 36 INCHES AND NO MORE THAN 72 INCHES ABOVE THE FINISHED FLOOR.
4. CONTROL UNITS SHALL BE INSTALLED SO THAT WORKING CLEARANCES ARE MAINTAINED AROUND UNITS IN ACCORDANCE WITH NFPA 70 (2002) NATIONAL ELECTRIC CODE.

2 FIRE ALARM CONTROL EQUIPMENT ELEVATION

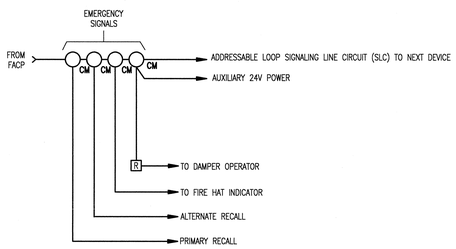
NOT TO SCALE



NOTES:

1. DIRECTIONS FOR THE USE OF THE TWO-WAY COMMUNICATION SYSTEM, INSTRUCTIONS FOR SUMMONING ASSISTANCE VIA THE TWO-WAY COMMUNICATION SYSTEM AND WRITTEN IDENTIFICATION OF THE LOCATION SHALL BE POSTED ADJACENT TO THE TWO-WAY COMMUNICATION SYSTEM.
2. ALL WIRING SHALL BE PER GAI-TRONICS SPECIFICATIONS.

8 TWO-WAY (EMERGENCY) COMMUNICATION SYSTEM



1. PROVIDE CONTROL MODULE OUTPUTS FOR PRIMARY AND ALTERNATE RECALL SIGNALS, FIRE HAT WARNING AND MACHINE ROOM / SHAFT DAMPERS – TYPICAL PER ELEVATOR CONTROLLER.

5 EMERGENCY ELEVATOR SERVICE

UNIVERSITY OF CONNECTICUT

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NO.	DATE	COMMENTS

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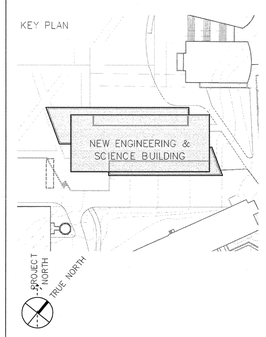
ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.

KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

Drawing Title:

FIRE ALARM DETAIL SHEET 1 OF 2

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: N.T.S.

CONFORMED SET: 05/29/2015

FA-600

SYSTEM OUTPUTS

		Control Unit Annunciation					Notification			Required Fire Safety Control													Supplementary		
		COMMON ALARM INDICATION	COMMON SUPERVISORY INDICATION	COMMON TROUBLE INDICATION	ACTUATE (FLOOR LEVEL) DEVICE LED INDICATOR @ MAIN FACP	DISPLAY/PRINT (DEVICE TYPE, STATUS AND LOCATION) ON SYSTEM MESSAGE DISPLAYS	ACTUATE BUILDING-WIDE EVACUATION SEQUENCE 2	TRANSMIT EVENT TO CAMPUS SUPERVISING STATION	TRANSMIT EVENT TO REMOTE SUPERVISING STATION	RELEASE SMOKE DOORS ON THE FLOOR	INITIATE EMERGENCY ELEVATOR SERVICE	INITIATE AHU/FAN SHUTDOWN	INITIATE AHU/FAN OVERRIDE - ON	CLOSE ASSOCIATED PRESSURIZE DAMPERS	INITIATE ASSOCIATED SMOKE CONTROL SEQUENCE 3	INITIATE AUTOMATIC STOP (CLOSE) OF ASSOCIATED EQUIPMENT	INITIATE MANUAL OFF (OPEN) SEQUENCE	INITIATE MANUAL OFF (CLOSED) SEQUENCE	ILLUMINATE ON (OPEN) LED INDICATOR	ILLUMINATE OFF (CLOSED) LED INDICATOR	AUDIO/VISUAL - LIGHTING SYSTEMS OVERRIDE	ILLUMINATE FAULT LED	DISPLAY EVENT ON NETWORK ANNUNCIATORS	ILLUMINATE REMOTE ALARM LED	ACTUATE EXTERIOR STROBE AT F.D. RESPONSE POINT
SYSTEM INPUTS		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	Y
INITIATION DEVICES	MANUAL PULL STATION	X			X	X	X	X		X											X		X		X
	AREA SMOKE DETECTOR	X			X	X	X	X		X					X						X		X	X	X
	AUTOMATIC DETECTOR - ELEVATOR	X			X	X	X	X		X					X						X		X		X
	SPRINKLER WATERFLOW SWITCH	X			X	X	X	X		X	X			X	X								X		X
	SPRINKLER PRESSURE SWITCH	X			X	X	X	X		X				X	X						X		X		X
	SPRINKLER TAMPER SWITCH		X		X	X			X												X		X		
	IN-DUCT SMOKE DETECTOR - AHU/FAN		X		X	X			X			X				X							X	X	
	IN-DUCT SMOKE DETECTOR - DAMPER		X		X	X			X					X		X							X	X	
	FIRE SUPPRESSION SYSTEM - STAGE 1 (PRE-ALERT)	X			X	X		X															X		
	FIRE SUPPRESSION SYSTEM - STAGE 2 (ALARM)	X			X	X	X	X				X		X		X					X		X		X
	FIRE SUPPRESSION SYSTEM - TAMPER		X		X	X			X														X		
	FIRE SUPPRESSION SYSTEM - TROUBLE			X	X	X																	X		
	CLEAN AGENT SYSTEM - ABORT		X			X			X														X		
GENERAL	EMERGENCY GENERATOR - STATUS		X		X	X																	X		
	FIRE PUMP - STATUS		X		X	X																	X		
	AHU/FAN MANUAL OVERRIDE SWITCH - ON			X		X							X				X								
	AHU/FAN MANUAL OVERRIDE SWITCH - OFF			X		X						X						X							
	AHU/FAN OVERRIDE - ON STATUS CONFIRMATION					X													X						
	AHU/FAN OVERRIDE - OFF STATUS CONFIRMATION					X														X					
	AHU/FAN POWER DISCONNECT			X		X																			
	F/S DAMPER - OPEN STATUS CONFIRMATION					X													X						
	F/S DAMPER - CLOSE STATUS CONFIRMATION					X														X					
	SMOKE CONTROL - FAN / DAMPER SEQUENCE FAIL			X		X																X	X		
	SMOKE EXHAUST FAN - RUN STATUS					X													X				X		
	OFF-NORMAL DEVICE OR CIRCUIT CONDITION			X		X																			
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	Y

NOTES:

1. THE OPERATIONAL MATRIX IS INTENDED TO SHOW GENERAL FIRE ALARM SEQUENCING BY DEVICE OR EVENT TYPE. REFER TO RELATED CONTRACT DOCUMENTS FOR DETAILED SEQUENCING.
2. REFER TO THE PROJECT SPECIFICATION DETAILS FOR ACTUAL EVACUATION SEQUENCE REQUIREMENTS.
3. REFER TO LIFE SAFETY PLANS AND HVAC DOCUMENTS FOR SMOKE ZONE ASSIGNMENTS AND SMOKE CONTROL SEQUENCING.

FIRE ALARM OPERATIONAL MATRIX

SEQUENCE OF OPERATION:

A. ALARM CONDITION

THE OPERATION OF A MANUAL STATION OR ACTIVATION OF ANY AUTOMATIC FIRE ALARM INITIATING DEVICE (AREA SMOKE OR HEAT DETECTOR, WATER FLOW, ETC.) SHALL CAUSE THE FOLLOWING TO OCCUR:

1. INITIATE TRANSMISSION OF CORRESPONDING ALARM SIGNAL TO THE APPROVED REMOTE SUPERVISING STATION.
2. SOUND THE ALARM SIGNAL, FLASH THE ALARM INDICATOR, AND PRESENT THE ASSIGNED ENGLISH LANGUAGE MESSAGE TEXT ASSOCIATED WITH THE EVENT (DATE/TIME, DEVICE TYPE, STATUS AND LOCATION) AT THE MAIN FIRE ALARM CONTROL PANEL AND ALL SYSTEM REMOTE ANNUNCIATORS.
3. SOUND A UNIFORM TEMPORAL CODE 3 EVACUATION SIGNAL THROUGHOUT THE BUILDING, ACCOMPANIED BY SYNCHRONIZED VISUAL SIGNALS. WHERE ADJACENT FLOORS ARE OPEN TO FLOORS ABOVE OR BELOW, THE ADDITIONAL OPEN FLOOR LEVEL(S) SHALL BE INCLUDED IN THE EVACUATION AREA.
4. RELEASE ALL DOORS LOCATED AT SMOKE COMPARTMENT BOUNDARIES THAT ARE NORMALLY HELD OPEN BY DOOR CONTROL DEVICES.
5. THE EXTERIOR BEACON ON THE BUILDING SHALL ACTIVATE.
6. ACTIVATION OF BUILDING WATER FLOW ALARM SHALL INITIATE THE APPROPRIATE SPRINKLER ALARM AUDIO/VISUAL NOTIFICATION APPLIANCE.
7. ACTIVATE ALL MOTOR OPERATED FIRE AND SMOKE DAMPERS AND SHUTTERS SERVING THE ZONE OF ORIGIN.
8. ACTIVATION OF DEVICES DESIGNATED FOR EMERGENCY ELEVATOR SERVICE WILL INITIATE PHASE 1 ELEVATOR RECALL RELATED FIRE WARNING FUNCTIONS.
9. THE ACTIVATION OF ANY DUCT-MOUNTED SMOKE DETECTOR SHALL INITIATE SHUTDOWN OF THE RESPECTIVE AIR HANDLING UNIT OR FANS AS APPLICABLE.

B. TROUBLE CONDITION

IN THE EVENT OF A SYSTEM FAULT, THE FOLLOWING SHALL OCCUR:

1. AN AUDIBLE AND VISUAL TROUBLE SIGNAL AND CORRESPONDING LCD MESSAGE TEXT SHALL BE PRESENTED AT THE FIRE COMMAND CENTER AND REMOTE ANNUNCIATORS.
2. THE SPECIFIC EVENT WILL BE TRANSMITTED TO THE APPROVED SUPERVISING STATION.

C. SUPERVISORY CONDITION

THE ACTIVATION OF ANY DUCT SMOKE DETECTOR STANDPIPE VALVE SUPERVISORY (TAMPER) SWITCH, SPRINKLER VALVE SUPERVISORY SWITCH, OR CHANGE IN THE STATUS OF THE EMERGENCY GENERATOR, FIRE PUMP AND EMERGENCY COMMUNICATIONS RADIO ENHANCEMENT SYSTEM SHALL CAUSE A SUPERVISORY EVENT REPORTING AS FOLLOWS:

1. AN AUDIBLE AND VISUAL SUPERVISORY SIGNAL SHALL BE ACTIVATED, AND THE CORRESPONDING LCD MESSAGE TEXT SHALL BE PRESENTED AT THE FIRE COMMAND CENTER, AND REMOTE ANNUNCIATORS.
2. A SUPERVISORY SIGNAL SHALL BE TRANSMITTED TO THE REMOTE SUPERVISING STATION VIA THE DIGITAL ALARM COMMUNICATOR/TRANSMITTER (DACT).

D. MANUAL OPERATION

THE SYSTEM SHALL SUPPORT THE FOLLOWING MANUAL FUNCTIONS:

1. A MANUAL EVACUATION (DRILL) SWITCH SHALL BE PROVIDED AT THE CONTROL UNITS LOCATED AT THE MAIN FACP TO OPERATE THE ALARM NOTIFICATION APPLIANCES, WITHOUT CAUSING OTHER CONTROL CIRCUITS TO BE ACTIVATED. SHOULD A TRUE ALARM OCCUR WHILE A DRILL IS BEING EXERCISED, ALL ALARM FUNCTIONS SHALL OCCUR AS DESCRIBED UNDER THE ALARM SEQUENCE.
2. AUXILIARY BYPASS SWITCHES SHALL BE PROVIDED FOR THE FOLLOWING:
   a. OFF-PREMISES REPORTING BYPASS.
   b. DOOR HOLD OPEN RELEASE BYPASS.
   c. AUDIO/VISUAL DEVICE DISABLE.
   d. ELEVATOR RECALL BYPASS.
   e. FAN CONTROL BYPASS (I.E. H_O_A SWITCHES) FOR ALL HVAC EQUIPMENT THAT HAS ASSOCIATED SMOKE DETECTORS.
3. ACTIVATION OF AUXILIARY BY-PASS SWITCHES SHALL OVERRIDE THE SELECTED AUTOMATIC FUNCTIONS (EXCEPT WHERE ALLOWED BY CODE), AND INDICATE A TROUBLE CONDITION AT THE ITS' CORRESPONDING FIRE ALARM CONTROL PANEL, FIRE COMMAND CENTER AND REMOTE ANNUNCIATOR.

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NO.	DATE	COMMENTS

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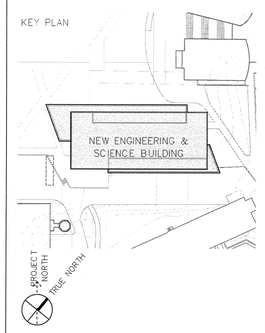
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

Drawing Title:

FIRE ALARM DETAILS SHEET 2 OF 2

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: N.T.S.

FA-601

CONFORMED SET: 05/29/2015

GENERAL TELECOMMUNICATIONS ABBREVIATIONS

8P8C	8-POSITION, 8-CONDUCTOR	ISDN	INTEGRATED SERVICES DIGITAL NETWORK
AC	ALTERNATING CURRENT	ISO	INTEGRATED STANDARDS ORGANIZARION
A/D	ANALOG TO DIGITAL CONVERSION	IW	INSIDE WIRING (CABLE)
ACO	ANALOG CENTRAL OFFICE	KHz	KILOHERTZ
ADA	AMERICANS WITH DISABILITIES ACT	KTS	KEY TELEPHONE SYSTEM
ADO	AUXILIARY DISCONNECT OUTLET	LAN	LOCAL AREA NETWORK
AER	AERIAL	LASER	LIGHT AMPLIFICATION BY STIMULATED EMISSION OF RADIATION
AFF	ABOVE FINISHED FLOOR	LATA	LOCAL ACCESS TRANSPORT AREA
AIA	AMERICAN INSTITUTE OF ARCHITECTS	LBO	LINE BUILDOUT
AM	AMPLITUDE MODULATION	LEC	LOCAL EXCHANGE CARRIER
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	LED	LIGHT EMITTING DIODE
ARMM	PIC RISER, EXPANDED POLYETHYLENE PVC, 24 AWG, ALVYN	LOCAP	LOW CAPACITANCE
ASCII	AMERICAN STANDARD CODE FOR INFORMATION INTERCHANGE	MAP	MANUFACTURING AUTOMATION/PROTOCOL
ATM	ASYNCHRONOUS TRANSFER MODE	MAX	MAXIMUM
AWG	AMERICAN WIRE GAUGE	MC	MAIN CROSS-CONNECT
B	BURIED	MDF	MAIN DISTRIBUTION FRAME
BC	BONDING CONDUCTOR	M/G	MOTOR/GENERATOR SET
BBISDN	BROADBAND INTEGRATED SERVICES DIGITAL NETWORK	MH	MAINTENANCE HOLE
BD	BUILDING DISTRIBUTOR	MICRON	MICROMETER
BDF	BUILDING DISTRIBUTION FRAME	MIN	MINIMUM
BEF	BUILDING ENTRANCE FACILITY	MISC	MISCELLANEOUS
BER	BIT ERROR RATE	MODEM	MODULATOR/DEMODULATOR
BIC	BUILDING INDUSTRY CONSULTANT	MPOP	MINIMUM POINT OF PRESENCE
BICSI	BUILDING INDUSTRY CONSULTING SERVICES	MTT	MAIN TELEPHONE TERMINAL
BRISDN	BASIC RATE INTEGRATED SERVICES DIGITAL NETWORK	N	NEWTON
BTU	BRITISH THERMAL UNIT	NEC	NATIONAL ELECTRIC CODE
CA	CABLE	NESC	NATIONAL ELECTRIC SAFETY CODE
CATV	CABLE TELEVISION	NI	NETWORK INTERFACE
CBC	COUPLED BONDING CONDUCTOR	NIC	NOT IN CONTRACT
CC	COMMUNICATIONS CONTRACTOR	NID	NETWORK INTERFACE DEVICE
CCITT	THE INTERNATIONAL TELEGRAPH AND TELEPHONE CONSULTATIVE COMMITTEE	NIU	NETWORK INTERFACE UNIT
CD	CONDUIT	NRTL	NATIONALLY RECOGNIZED TESTING LABORATORY
CDDI	COPPER DISTRIBUTED DATA INTERFACE	NTS	NOT TO SCALE
CDF	COPPER DISTRIBUTION FRAME	OC	ON CENTER
CDO	COMMUNITY DIAL OFFICE	OD	OUTSIDE DIAMETER
CER	COMPUTER EQUIPMENT ROOM	OFNP	OPTICAL FIBER NON-CONDUCTIVE PLENUM
CIRC	CIRCUIT	OFNR	OPTICAL FIBER NON-CONDUCTIVE RISER
CFC	COMMUNICATIONS FLAT CABLE	OPD	OVERCURRENT PROTECTION DEVICE
CLO	CLOSET	OPE	OUTSIDE PLANT ENGINEER
CO	CENTRAL OFFICE	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
CODEC	CODER/DECODER	OSP	OUTSIDE PLANT
COE	CENTRAL OFFICE EQUIPMENT	PAM	PULSE AMPLITUDE MODULATE
COT	CENTRAL OFFICE TERMINAL	PB	PULL BOX
CPC	CUSTOMER PREMISES COMMUNICATIONS	PBX	PRIVATE BRANCH EXCHANGE
CPE	CUSTOMER PREMISES EQUIPMENT	PCM	PULSE CODE MODULATION
CPU	CENTRAL PROCESSING UNIT	PIC	POLYETHYLENE INSULATED CONDUCTOR
CSA	CANADIAN STANDARDS ASSOCIATION	PL	PRIVATE LINES
CSMA/CA	CARRIER SENSE MULTIPLE ACCESS/COLLISION AVOIDANCE	PLT	PLANT
CSMA/CD	CARRIER SENSE MULTIPLE ACCESS/COLLISION DETECTION	PM	PHASE MODULATION
D/A	DIGITAL TO ANALOG CONVERSION	POI	POINT OF INTERFACE
DAF	DEDICATED ACCESS FACILITY	POTS	PLAIN OLD TELEPHONE SERVICE
DB	DECIBEL	PR	PAIR
DC	DIRECTED CURRENT	PTSS	PASSIVE TRANSMISSION SUBSYSTEM
DCE	DATA CIRCUIT-TERMINATION EQUIPMENT	PVC	POLYVINYL CHLORIDE
DCO	DIGITAL CENTRAL OFFICE	SE	SERVICE ENTRANCE
DD	DISTRIBUTION DESIGNER	SER	SATELLITE EQUIPMENT ROOM
DEMARC	DEMARCATION POINT	SI	SYSTEM INTERNATIONAL
DGM	DATA GRADE MEDIUM	SL	SLEEVE
DTE	DATA TERMINAL EQUIPMENT	SMPS	SWITCHED MODE POWER SUPPLY
DW	DISTRIBUTION WIRE	SNA	SYSTEMS NETWORK ARCHITECTURE
DWG	DRAWING(S)	SP	SERVICE PROVIDER
EBC	EQUIPMENT BONDING CONDUCTOR	SPC	STORED PROGRAM CONTROL
EC	ELECTRICAL CONTRACTOR	SPD	SURGE PROTECTION DEVICE
EF	ENTRANCE FACILITY	SPG	SINGLE-POINT GROUND
EIA	ELECTRONICS INDUSTRY ASSOCIATION	STA	STATION
ELEC	ELECTRICAL	STP	SHIELDED TWISTED PAIR
EMC	ELECTROMAGNETIC COMPATABILITY	SW	STATION WIRE
EMI	ELECTROMAGNETIC INTERFACE	SWB	SWITCHBOARD
EMR	ELECTROMAGNETIC RADIATION	SYS	SYSTEM
EMT	ELECTRICAL METALLIC TUBING	TB	TERMINAL BLOCK
ESS	ELECTRONIC SWITCHING SYSTEM	TBBC	TELECOMMUNICATIONS BACKBONE BONDING CONDUCTOR
ETV	EDUCATIONAL TELEVISION	TBC	TELECOMMUNICATION BONDING CONDUCTOR
E/W	EQUIPPED WITH	TC	TELECOMMUNICATIONS CLOSET
EXCH	EXCHANGE	TDM	TIME DIVISION MULTIPLEXING
EXT	EXTENSION	TEBC	TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR
FCC	FEDERAL COMMUNICATIONS COMMISSION	TEL	TELEPHONE
FD	FLOOR DISTRIBUTION	TELCO	TELEPHONE COMPANY
FDDI	FIBER DISTRIBUTION DATA INTERFACE	TERM	TERMINAL
FDM	FREQUENCY DIVISION MULTIPLEXING	TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
FDR	FEEDER	THD	THIRD HARMONIC DISTORTION
FO	FIBER OPTIC	TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
FOTP	FIBER OPTIC TRANSMISSION SYSTEM	TM	TRANSFORMER MAINTENANCE HOLE
FREQ	FREQUENCY	TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
FTP	FOIL TWISTED PAIR	TO	TELECOMMUNICATIONS OUTLET
GA	GAUGE	TPDDI	TWISTED PAIR DISTRIBUTED DATA INTERFACE
GEC	GROUNDING ELECTRIC CONDUCTOR	TPPMD	TWISTED PAIR PHYSICAL MEDIUA DEPENDENT
GHz	GIGAHERTZ	TR	TELECOMMUNICATIONS ROOM
GND	GROUND	TSB	TELECOMMUNICATIONS SYSTEM BULLETIN
HC	HORIZONTAL CROSS-CONNECT	TT	TELEPHONE TERMINAL
HF	HIGH FREQUENCY	TTB	TELEPHONE TERMINAL BOARD
HH	HANDHOLE	TTY	TEXT TELEPHONES
HVAC	HEATING, VENTILATION AND AIR CONDITIONING	TVSS	TRANSCEND VOLTAGE SURGE SUPPRESSOR
Hz	HERTZ	TYP	TYPICAL
IC	INTERMEDIATE CROSS-CONNECT	UG	UNDERGROUND
ICEA	INSULATED CABLE ENGINEERS ASSOCIATION	UL	UNDERWRITERS LABORATORIES
IDC	INSULATION DISPLACEMENT CONNECTION	UPS	UNINTERRUPTIBLE POWER SUPPLY
IDF	INTERMEDIATE DISTRIBUTION FRAME	UTP	UNSHIELDED TWISTED PAIR
IEEE	INTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS		

GENERAL PATHWAY REQUIREMENTS

1. INSTALL CONDUIT RUNS IN THE MOST DIRECT ROUTE POSSIBLE WITH NO MORE THAN TWO 90 DEGREE BENDS BETWEEN PULL POINTS OR PULL BOXES.
2. 90 DEGREE CONDUITS "LB" TYPE FITTINGS SHALL NOT BE USED FOR TELECOMMUNICATIONS CABLING INSTALLATIONS.
3. CONTINUOUS CONDUIT SECTIONS OR SEGMENTS SHALL NOT BE GREATER THAN 100 LINEAR FEET IN LENGTH WITHOUT AN ADEQUATELY SIZED PULL BOX - REFER TO DETAL
4. CONDUITS SHALL BE BONDED TO GROUND ON ONE OR BOTH ENDS IN ACCORDANCE WITH NATIONAL AND LOCAL REQUIREMENTS.
5. TELECOMMUNICATIONS CONDUITS SHALL BE INSTALLED TO WITHSTAND THE ENVIRONMENT IN WHICH THEY WILL BE EXPOSED AND IN ACCORDANCE WITH ANSI/NFPA-70; THE NATIONAL ELECTRICAL CODE.
6. THE TOTAL DISTANCE OF CONDUIT RUNS FOR TELECOMMUNICATIONS HORIZONTAL CABLE USE SHALL NOT EXCEED 150 FEET.
7. DO NOT INSTALL CONDUITS OVER OR ADJACENT TO BOILERS, INCINERATORS, HOT WATER OR STEAM LINES.
8. THE MINIMUM BEND RADIUS OF ANY PORTION OF THE CONDUIT PATHWAY SHALL BE SIX (6) TIMES THE INTERNAL DIAMETER OF THE CONDUIT FOR ALL CONDUITS 2-INCHES IN DIAMETER OR LESS.
9. THE MINIMUM BEND RADIUS OF ANY PORTION OF THE CONDUIT PATHWAY SHALL BE TEN (10) TIMES THE INTERNAL DIAMETER OF THE CONDUIT FOR ALL CONDUITS WITH AN INTERNAL DIAMETER GREATER THAN 2-INCHES.
10. WHERE A CONDUIT RUN REQUIRES A REVERSE BEND (BETWEEN 100 DEGREES AND 180 DEGREES) A PULL BOX SHALL BE INSTALLED AT EACH BEND HAVING SUCH ANGLE, WITHIN 10 FEET OF THE BEND.
11. IF A CONDUIT RUN REQUIRES A THIRD 90 DEGREE BEND BETWEEN PULL POINTS OR PULL BOX, THE OVERALL DESIGN CAPACITY OF THE CONDUIT SYSTEM SHALL HAVE A DERATED TOTAL CAPACITY OF 15 PERCENT.
12. ALL CONDUIT ENDS SHALL BE REAMED AND FITTED WITH THREADED INSULATING BUSHING TO ELIMINATE SHARP EDGES THAT CAN DAMAGE CABLES DURING INSTALLATION.
13. CONDUITS THAT PROTRUDE THROUGH WALLS AND FLOORS SHALL BE EXTENDED BEYOND THE SURFACE PENETRATION TO WITHIN 12 INCHES OF THE CABLE TRAY OR CABLE RUNWAY SYSTEM.
14. ALL TELECOMMUNICATION OUTLETS STUB-UPS SHALL EQUIPPED WITH PULL STRING WITH A MINIMUM TEST RATING OF 200 LBS.
15. ALL INTERIOR COMMUNICATIONS CONDUITS GREATER THAN 1 1/2" CONDUITS SHALL BE EQUIPPED WITH 1/2" CABLE PULLING TAPE WITH 1250 LBS OF TENSILE STRENGTH AND SEQUENTIAL FOOTAGE MARKING.
16. ALL EXTERIOR COMMUNICATIONS CONDUITS SHALL BE EQUIPPED WITH 1/2" CABLE PULLING TAPE WITH 1250 LBS OF TENSILE STRENGTH AND SEQUENTIAL FOOTAGE MARKING.
17. INSTALL PULL BOXES IN ACCESSIBLE LOCATIONS. DIRECT ACCESS TO PULL BOXES IS REQUIRED. PROVIDE LABELED, HINGED ACCESS PANEL DOOR. PULL BOXES SHALL BE LISTED FOR THE PURPOSE.
18. THE MINIMUM LENGTH OF PULL BOX SHALL BE 12 TIMES THE DIAMETER OF THE LARGEST CONDUIT. PULL BOXES SHALL NOT BE USED IN SUBSTITUTION OF A 90 DEGREE BEND.
19. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING ELEVATIONS.
20. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR COORDINATION OF ALL CONDUIT, RUNWAY, AND TRAY.
21. COORDINATE EXACT LOCATIONS OF ALL FLOOR BOXES AND POKE-THRU DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
22. ALL OUTLET LOCATIONS AND DIMENSIONS ARE APPROXIMATE. COORDINATE EXACT MOUNTING LOCATION AND HEIGHT WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.
23. WHERE CABLE TRAY RUNS ARE OBSTRUCTED, J-HOOKS MAY BE USED. J-HOOKS SHALL BE SPACED NOT GREATER THAN 48" O.C. WHERE COMMUNICATIONS CABLE AND SECURITY CABLE FOLLOW THE SAME PATH, CABLES SHALL BE SEPARATED.
24. ALL TELECOMMUNICATION OUTLETS SHWON IN OPEN AIR ENVIORMENT (IE, MECHANICAL SPACE, PENTHOUSE, ROOF,GARAGE) SHALL BE INSTALLED IN CONDUIT RATED FOR THAT ENVIROMENT.
25. PRIOR TO INTALLATION OF ANY TELECOMMUNICATION EQUIPMENT WITH THE TELECOMMUNICATION ROOMS CONTRACTOR SHALL FEILD VERIFY ALL ROOM DIMENSIONS AND EQUIPMENT CLEARANCES PRIOR TO PERMANENT INSTALLATIONS.

GENERAL LABELING REQUIREMENTS

IDENTIFY AND LABEL EACH EQUIPMENT ROOM AND TELECOMMUNICATION ROOM WITH A UNIQUE IDENTIFIER DERIVED FROM THE UCONN'S FAMIS FACILITY MANAGEMENT DATABASE. THE LABELS SHALL BE PERMANENET AND CONSISTENT WITH THE LABELING STYLE ESTABLISHED FOR THE BUILDING. ALONG WITH THE ROOM NUMBER THE LABEL SHALL INCUDE "TEL/DATA" AS THE USE DESCRIBER.

110
TEL/DATA

IDENTIFY AND LABEL EACH EQUIPMENT RACK WITH A UNIQUE IDENTIFIER THAT INCLUDES THE TELECOMMUNICATION SPACE FAMIS ROOM NUMBER FOLLOWED BY A HYPHEN THEN A SINGLE NUMERIC CHARACTER. THE LABELS SHALL BE ENGRAVED PLASTIC; THE FONT SHALL BE AT LEAST 1-INCH HIGH AND CONTRASTING THE BACKGROUND IN COLOR. SECURELY ATTACH THE LABEL TO THE FRONT OF THE LADDER RACK; DIRECTLY ABOVE THE EQUIPMENT RACK.

110-1

IDENTIFY AND LABEL EACH WALL WITH A PLYWOOD BACKBOARD WITH A UNIQUE IDENTIFIER THAT INCUDES THE TELECOMMUNICATION SPACE FAMIS ROOM NUMBER FOLLOWED BY A HYPHEN THEN A SINGLE ALPHA CHARACTER. THE LABELS SHALL BE ENGRAVED PLASTIC; THE FONT SHALL BE AT LEAST 1-INCH HIGH AND CONTRASTING THE BACKGROUND IN COLOR. SECURELY ATTACH THE LABEL TO THE FRONT OF THE LADDER RACK DIRECTLY ABOVE THE PLYWOOD BACKBOARD.

110-A

IDENTIFY AND LABEL EACH PATCH PANEL AND WIRING BLOCK WITH A UNIQUE IDENTIFIER THAT INCUDES THE EQUIPMENT RACK OR PLYWOOD BACKBOARD IDENTIFIER FOLLOWED BY A SINGLE ALPHA CHARACTER. THE LABELS SHALL BE DURABLE, MACHINE GENERATED, SELF-ADHERING, AT LEAST 3/8" WIDE; THE FONT SHALL BE A MINIMUM OF 3/16" HIGH AND CONTRASTING THE BACKGROUND IN COLOR. AFFIX THE LABELS TO THE FRONT OF THE PATCH PANEL OR WIRING BLOCK SO THAT THEY WILL REMAIN CLEARLY VISIBLE ONCE CROSS-CONNECTS OR PATCHING IS COMPLETED.

110-1A (RACK-MOUNT PATCH PANEL
110-AA (WALL-MOUNT WIRING BLOCK)

IDENTIFY AND LABEL EACH BACKBONE CABLE AS TO REFERENCE ITS SOURCE AND DESTINATION TERMINATION PATCH PANEL OR WIRING BLOCK, THE CABLE'S TYPE AND SIZE. THE LABELS SHALL BE DURABLE, MACHINE GENERATED, SELF-ADHERING, AT LEAST 3/8" WIDE; THE FONT SHALL BE A MINIMUM OF 3/16" HIGH AND CONTRASTING THE BACKGROUND IN COLOR. AFFIX LABELS AT THE END OF THE CABLE WITHIN 12 INCHES OF THE TERMINATION AND ON EACH PATCH PANEL OR WIRING BLOCK.

001-AA/110-AA 100-3-UTP (UTP COPPER BACKBONE)
001-A/110-0A 12-SMF (FIBER BACKBONE)
001-AB/110-AB P3-500 (COAXIAL BACKBONE)

IDENTIFY AND LABEL EACH PERMANENT LINK AS TO REFERENCE ITS SOURCE TERMINATION PATCH PANEL PORT OR WIRING BLOCK POSITION. THE IDENTIFIER SHALL INCLUDE THE PATCH PANEL OR WIRING BLOCK IDENTIFIER FOLLOWED BY A TWO DIGIT PORT OR POSITION NUMBER. THE LABELS SHALL BE DURABLE, MACHINE GENERATED, SELF-ADHERING, AT LEAST 3/8" WIDE; THE FONT SHALL BE A MINIMUM OF 3/16" HIGH AND CONTRASTING THE BACKGROUND IN COLOR. AFFIX LABELS AT THE END OF THE CABLE WITHIN 12 INCHES OF TERMINATION AND TO THE FRONT OF THE FACEPLATE NEAR THE CONNECTOR MODULE.

100-1A01

ALL IDENTIFIERS SHALL BE CLEARLY RECORDED ON THE AS-BUILT DRAWINGS.

AS PART OF THE CLOSE-OUT DOCUMENTATION, PROVIDE UITS WITH A TABLE THAT SHOWS THE RELATIONSHIP OF EACH PERMANENT LINK, BY IT'S IDENTIFIER, TO THE FAMIS ROOM NUMBER OF THE TR AND THE FAMIS ROOM NUMBER WHERE THE WAO IS INSTALLED.

TELECOMMUNICATIONS SYMBOL LEGEND

▼ 4	STANDARD 4-PORT TELECOMMUNICATIONS OUTLET. PROVIDE (1) 4-PORT SINGLE GANG FACEPLATE ONTO A 4-11/16"x4-11/16"x2-1/8" BACKBOX. INSTALL (1) CATEGORY 6 8P8C MODULAR JACK INSERT INTO EACH PORT POSITION. INSTALL (1) CATEGORY 6 UTP CABLE FOR EACH MODULAR JACK INSERT INSTALLED. TERMINATE ALL 8 CONDUCTORS. INSTALL BLANK INSERT IN ALL UNUSED PORT POSITIONS. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. REFER TO TELECOMMUNICATIONS DETAILS FOR MORE INFORMATION.
▼ 3	STANDARD 3-PORT TELECOMMUNICATIONS OUTLET. PROVIDE (1) 3-PORT SINGLE GANG FACEPLATE ONTO A 4-11/16"x4-11/16"x2-1/8" BACKBOX. INSTALL (1) CATEGORY 6 8P8C MODULAR JACK INSERT INTO EACH PORT POSITION. INSTALL (1) CATEGORY 6 UTP CABLE FOR EACH MODULAR JACK INSERT INSTALLED. TERMINATE ALL 8 CONDUCTORS. INSTALL BLANK INSERT IN ALL UNUSED PORT POSITIONS. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. REFER TO TELECOMMUNICATIONS DETAILS FOR MORE INFORMATION.
▼ 2	STANDARD 2-PORT TELECOMMUNICATIONS OUTLET. PROVIDE (1) 2-PORT SINGLE GANG FACEPLATE ONTO A 4-11/16"x4-11/16"x2-1/8" BACKBOX. INSTALL (1) CATEGORY 6 8P8C MODULAR JACK INSERT INTO EACH PORT POSITION. INSTALL (1) CATEGORY 6 UTP CABLE FOR EACH MODULAR JACK INSERT INSTALLED. TERMINATE ALL 8 CONDUCTORS. INSTALL BLANK INSERT IN ALL UNUSED PORT POSITIONS. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. REFER TO TELECOMMUNICATIONS DETAILS FOR MORE INFORMATION.
▼ BAS	STANDARD 2-PORT TELECOMMUNICATIONS OUTLET. PROVIDE (1) 2-PORT SINGLE GANG FACEPLATE ONTO A 4-11/16"x4-11/16"x2-1/8" BACKBOX. INSTALL (1) CATEGORY 6 8P8C BLACK MODULAR JACK INSERT INTO EACH PORT POSITION. INSTALL (1) CATEGORY 6 UTP CABLE FOR EACH MODULAR JACK INSERT INSTALLED. TERMINATE ALL 8 CONDUCTORS. INSTALL BLANK INSERT IN ALL UNUSED PORT POSITIONS. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS AND DIVISION 25 AND 26 CONTRACTOR FOR LOCATIONS PRIOR TO ROUGH-IN. BAS OUTLETS SHALL BE LOCATED ADJACENT TO EQUIPMENT CONTROL AREA FOR UCONN UITS ACCESS. REFER TO TELECOMMUNICATIONS DETAILS FOR MORE INFORMATION.
▼ 1	STANDARD 1-PORT TELECOMMUNICATIONS OUTLET. PROVIDE (1) 1-PORT SINGLE GANG FACEPLATE ONTO A 4-11/16"x4-11/16"x2-1/8" BACKBOX. INSTALL (1) CATEGORY 6 8P8C MODULAR JACK INSERT INTO EACH PORT POSITION. INSTALL (1) CATEGORY 6 UTP CABLE FOR EACH MODULAR JACK INSERT INSTALLED. TERMINATE ALL 8 CONDUCTORS. INSTALL BLANK INSERT IN ALL UNUSED PORT POSITIONS. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. REFER TO TELECOMMUNICATIONS DETAILS FOR MORE INFORMATION.
▼ W	STANDARD WALL PHONE OUTLET. PROVIDE (1) 1-PORT STAINLESS STEEL SINGLE GANG FACEPLATE ONTO A 4-11/16"x4-11/16"x2-1/8" BACKBOX. INSTALL (1) CATEGORY 6 8P8C MODULAR JACK INSERT INTO EACH PORT POSITION. INSTALL (1) CATEGORY 6 UTP CABLE FOR EACH MODULAR JACK INSERT INSTALLED. TERMINATE ALL 8 CONDUCTORS. INSTALL BLANK INSERT IN ALL UNUSED PORT POSITIONS. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. REFER TO TELECOMMUNICATIONS DETAILS FOR MORE INFORMATION.
▼TV	STANDARD CATV TELECOMMUNICATION OUTLET. PROVIDE (1) 2-PORT SINGLE GANG FACEPLATE ONTO AN OLD WORK BACKBOX MOUNTED IN A CHIEF MANUFACTURING 526 PAC-BOX. INSTALL (1) F-CONNECTOR INSERT INTO PORT POSITION. INSTALL (1) CATEGORY 6 8P8C MODULAR JACK INSERT INTO PORT POSITION. INSTALL (1) RG-6 CABLE FOR EACH F-CONNECTOR INSERT INSTALLED. INSTALL (1) CATEGORY 6 UTP CABLE FOR EACH MODULAR JACK INSERT INSTALLED. TERMINATE ALL 8 CONDUCTORS. PROVIDE BLANK INSERTS IN ALL UNUSED PORT POSITIONS. COORDINATE WITH ARCHITECTURAL DRAWINGS AND DIVISION 26 PRIOR TO ROUGH-IN. REFER TO TELECOMMUNICATIONS DETAILS FOR MORE INFORMATION.
(▼) WL	STANDARD 2-PORT CEILING MOUNTED WIRELESS ACCESS POINT OUTLET. PROVIDE (1) 2-PORT SURFACE MOUNTED DEVICE BOX INTO WIRELESS ACCESS POINT ENCLOSURE. INSTALL (1) CATEGORY 6 8P8C MODULAR JACK INSERT INTO EACH PORT POSITION. INSTALL (1) CATEGORY 6 UTP CABLE FOR EACH MODULAR JACK INSERT INSTALLED. TERMINATE ALL 8 CONDUCTORS. INSTALL BLANK INSERT IN ALL UNUSED PORT POSITIONS. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. REFER TO TELECOMMUNICATIONS DETAILS FOR MORE INFORMATION.
▼ WL	STANDARD 2-PORT WALL MOUNTED WIRELESS ACCESS POINT OUTLET. PROVIDE (1) 2-PORT SINGLE GANG FACEPLATE ONTO A 4-11/16"x4-11/16"x2-1/8" BACKBOX. INSTALL (1) CATEGORY 6 8P8C MODULAR JACK INSERT INTO EACH PORT POSITION. INSTALL (1) CATEGORY 6 UTP CABLE FOR EACH MODULAR JACK INSERT INSTALLED. TERMINATE ALL 8 CONDUCTORS. INSTALL BLANK INSERT IN ALL UNUSED PORT POSITIONS. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. REFER TO TELECOMMUNICATIONS DETAILS FOR MORE INFORMATION.
(▼)WLP	STANDARD 2-PORT PENDANT MOUNTED WIRELESS ACCESS POINT OUTLET. PROVIDE (1) 2-PORT SURFACE MOUNTED DEVICE BOX INTO A 4"/16X4"/16X2 BACKBOX. INSTALL (1) CATEGORY 6 8P8C MODULAR JACK INSERT INTO EACH PORT POSITION. INSTALL (1) CATEGORY 6 UTP CABLE FOR EACH MODULAR JACK INSERT INSTALLED. TERMINATE ALL 8 CONDUCTORS. INSTALL BLANK INSERT IN ALL UNUSED PORT POSITIONS. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. REFER TO TELECOMMUNICATIONS DETAILS FOR MORE INFORMATION.
▼ E	STANDARD 2-PORT ELEVATOR PHONE OUTLET. PROVIDE (1) 2-PORT SINGLE GANG FACEPLATE ONTO A 4-11/16"x4-11/16"x2-18" BACKBOX. INSTALL (1) CATEGORY 6 8P8C MODULAR JACK INSERT INTO EACH PORT POSITION. INSTALL (1) CATEGORY 6 UTP CABLE FOR EACH MODULAR JACK INSERT INSTALLED. TERMINATE ALL 8 CONDUCTORS. INSTALL BLANK INSERT IN ALL UNUSED PORT POSITIONS. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. REFER TO TELECOMMUNICATIONS DETAILS FOR MORE INFORMATION.
FB	STANDARD 3-PORT TELECOMMUNICATIONS FLOOR BOX OUTLET. PROVIDE (1) 3-PORT SINGLE GANG MOUNTING BRACKET. INSTALL (1) CATEGORY 6 8P8C MODULAR JACK INSERT INTO EACH PORT POSITION. INSTALL (1) CATEGORY 6 UTP CABLE FOR EACH MODULAR JACK INSERT INSTALLED. TERMINATE ALL 8 CONDUCTORS. INSTALL BLANK INSERT IN ALL UNUSED PORT POSITIONS. COORDINATE FINAL LOCATION WITH ARCHITECTURAL DIMENSIONED DRAWINGS PRIOR TO ROUGH-IN. REFER TO TELECOMMUNICATIONS DETAILS FOR MORE INFORMATION.
PT	STANDARD 4-PORT TELECOMMUNICATIONS POKE-THRU OUTLET. INSTALL (1) CATEGORY 6 8P8C MODULAR JACK INSERT INTO EACH PORT POSITION. INSTALL (1) CATEGORY 6 UTP CABLE FOR EACH MODULAR JACK INSERT INSTALLED. TERMINATE ALL 8 CONDUCTORS. INSTALL BLANK INSERT IN ALL UNUSED PORT POSITIONS. COORDINATE FINAL LOCATION WITH ARCHITECTURAL DIMENSIONED DRAWINGS PRIOR TO ROUGH-IN. REFER TO TELECOMMUNICATIONS DETAILS FOR MORE INFORMATION. TELECOMMUNICATIONS CONTRACTOR TO PROVIDE MOUNTING BRACKET AND BEZEL FOR POKE THRU DEVICE PROVIDED BY ELECTRICAL CONTRACTOR. COORDINATE IN FIELD.
PT-A	STANDARD 3-PORT TELECOMMUNICATIONS POKE-THRU OUTLET. INSTALL (1) CATEGORY 6 8P8C MODULAR JACK INSERT INTO EACH PORT POSITION. INSTALL (1) CATEGORY 6 UTP CABLE FOR EACH MODULAR JACK INSERT INSTALLED. TERMINATE ALL 8 CONDUCTORS. INSTALL BLANK INSERT IN ALL UNUSED PORT POSITIONS. COORDINATE FINAL LOCATION WITH ARCHITECTURAL DIMENSIONED DRAWINGS PRIOR TO ROUGH-IN. REFER TO TELECOMMUNICATIONS DETAILS FOR MORE INFORMATION. TELECOMMUNICATIONS CONTRACTOR TO PROVIDE MOUNTING BRACKET AND BEZEL FOR POKE THRU DEVICE PROVIDED BY ELECTRICAL CONTRACTOR. COORDINATE IN FIELD.
▼AV	STANDARD 7-PORT AUDIO/VISUAL OUTLET. PROVIDE (1) 8-PORT DOUBLE GANG FACEPLATE ONTO A 4-11/16"x4-11/16"x3" BACKBOX. INSTALL (1) CATEGORY 6 8P8C MODULAR INSERT INTO EACH PORT POSITION. INSTALL (1) CATEGORY 6 UTP FOR EACH MODULAR JACK INSERT INSTALLED. INSTALL (1) "F" INSERT IN EACH PORT POSITION. INSTALL (1) RG-6 QUAD SHIELDED COAX CABLE FOR EACH "F" INSERT TERMINATE ALL CONDUCTORS. INSTALL BLANK INSERT IN ALL UNUSED PORT POSITIONS. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. REFER TO TELECOMMUNICATION DETAIL FOR MORE INFORMATION.
FF	WALL MOUNTED FURNITURE FEED DEVICE. PROVIDE (2) 1-1/4" CONDUIT FROM POKE THRU TO ABOVE ACCESSIBLE CEILING AND THEN LOCAL CABLE TRAY SYSTEM. PROVIDE NYLON BRAIDED "TECHFLEX" FROM DEVICE COVER PLATE TO FURNITURE OUTLETS. REFER TO TELECOMMUNICATIONS DETAILS FOR MORE INFORMATION
PT FF	POKE-THRU PASS-THRU FURNITURE FEED DEVICE. PROVIDE 2" CONDUIT FROM DEVICE TO THE CABLE TRAY ABOVE ACCESSIBLE CEILING ON THE FLOOR SERVING. PROVIDE NYLON BRAIDED "TECHFLEX" FROM DEVICE COVER PLATE TO FURNITURE OUTLETS. REFER TO TELECOMMUNICATION DETAILS FOR MORE INFORMATION
▼ VC	STANDARD 2-PORT VIDEO CONFERENCING OUTLET. PROVIDE (1) 2-PORT SINGLE GANG FACEPLATE ONTO AN OLD WORK BACKBOX MOUNTED IN A CHIEF MANUFACTURING 526 PAC-BOX. INSTALL (1) CATEGORY 6 8P8C MODULAR JACK INSERT INTO EACH PORT POSITION. INSTALL (1) CATEGORY 6 UTP CABLE FOR EACH MODULAR JACK INSERT INSTALLED. TERMINATE ALL 8 CONDUCTORS. INSTALL BLANK INSERT IN ALL UNUSED PORT POSITIONS. COORDINATE WITH ARCHITECTURAL DRAWINGS AND DIVISION 26 PRIOR TO ROUGH-IN. REFER TO TELECOMMUNICATIONS DETAILS FOR MORE INFORMATION.
(▼) P	STANDARD 1-PORT PROJECTOR OUTLET. PROVIDE (1) 1-PORT SINGLE GANG FACEPLATE ONTO PLASTIC SURFACE MOUNTED IG BACKBOX. INSTALL (1) CATEGORY 6 8P8C MODULAR JACK INSERT INTO EACH PORT POSITION. INSTALL (1) CATEGORY 6 UTP CABLE FOR EACH MODULAR JACK INSERT INSTALLED. TERMINATE ALL 8 CONDUCTORS. INSTALL BLANK INSERT IN ALL UNUSED PORT POSITIONS. COORDINATEWITH ARCHITECTURAL DRAWINGS AND DIVISION 26 PRIOR TO ROUGH-IN. REFER TO TELECOMMUNICATIONS DETAILS FOR MORE INFORMATION.
▼ FACP	STANDARD 6-PORT FIRE ALARM CONTROL PANEL OUTLET. PROVIDE (1) 8-PORT DOUBLE GANG FACEPLATE ONTO A 2 GANG PLASTIC EXTRA DEEP BOX. INSTALL (1) CATEGORY 6 8P8C MODULAR INSERT INTO PORT POSITIONS. INSTALL (1) CATEGORY 6 UTP FOR EACH MODULAR JACK INSERT INSTALLED. INSTALL (1) LC INSERT IN PORT POSITIONS. INSTALL (1) 4-STRAND SINGLE MODE FIBER OPTIC CABLE. TERMINATE ALL CONDUCTORS. INSTALL BLANK INSERT IN ALL UNUSED PORT POSITIONS. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. REFER TO TELECOMMUNICATION DETAIL FOR MORE INFORMATION.
(▼) IPC	STANDARD 1-PORT IP CAMERA OUTLET. PROVIDE (1) 1-PORT SINGLE GANG FACEPLATE ONTO A 4-11/16"x4-11/16"x2-1/8" BACKBOX. INSTALL (1) CATEGORY 6 8P8C MODULAR JACK INSERT INTO EACH PORT POSITION. INSTALL (1) CATEGORY 6 UTP CABLE FOR EACH MODULAR JACK INSERT INSTALLED. TERMINATE ALL 8 CONDUCTORS. INSTALL BLANK INSERT IN ALL UNUSED PORT POSITIONS. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. REFER TO TELECOMMUNICATIONS DETAILS FOR MORE INFORMATION.
LF	STANDARD LAB BENCH FEED. INSTALL (1) 2" CONDUIT BELOW SPINE OF LAB BENCH TO ABOVE ACCESSIBLE CEILING WITHIN LAB. COORDINATE LOCATION WITH ARCHITECTURAL DIMENSIONED PLANS AND LAB BENCH INSTALLER PRIOR TO INSTALLATION. (1)

AUDIO/VISUAL SYMBOL LEGEND

PT-A	WIREMOLD EVOLUTION 8AT SERIES POKE-THRU. FURNISHED AND INSTALL BY DIVISION 26
FB	WIREMOLD EVOLUTION SERIES FLOOR BOX. FURNISHED AND INSTALLED BY DIVISION 26
JB-1	AV RACK BACKBOX - 12"x12"x4" NEMA 1 SC. FLUSH MOUNTED TO FACE OF SHEET ROCK (2) 4" CHASE NIPPLE LOCKOUT AND BUSHING SHALL BE FURNISHED AND INSTALLED IN THE JUNCTION BOX COVER FOR AV CABLING TO EXIT JUNCTION BOX AND TERMINATED IN AV RACK. FURNISHED AND INSTALLED BY DIVISION 26
JB-2	PROJECTION SCREEN - 4-11/16"x4-11/16"x3" BACKBOX WITH 1G DEVIDE PLATE ABOVE CEILING AT PROJECTOR SCREEN STRUT MOUNT. FURNISHED AND INSTALLED BY DIVISION 26
JB-3	PROJECTOR - 4-11/16"x4-11/16"x3" BACKBOX WITH 1G DEVIDE PLATE ABOVE CEILING AT PROJECTOR STRUTMOUNT. FURNISHED AND INSTALLED BY DIVISION 26
JB-4	4-11/16"x4-11/16"x3" BACKBOX WITH 2G DEVICE PLATE. FURNISHED AND INSTALLED BY DIVISION 26
JB-5	CHIEF MANUFACTURING PAC526 PREWIRE IN THE WALL BOX. FURNISHED AND INSTALLED BY DIVISION 26
JB-6	8"x8"x4" JUNCTION BOX ABOVE CEILING FOR PULLBOX. FURNISHED AND INSTALLED BY DIVISION 26
JB-7	FSR PLENUM CEILING BOX. FURNISHED AND INSTALLED BY DIVISION 26
(S)	SPEAKER BACKBOX FURNISHED BY AV INTERGRATOR. INSTALLED BY DIVISION 26
JB-8	4-GANGx2-1/8" BACKBOX WITH 4-GANG DEVICE PLATE. INSTALLED BY DIVISION 26.
JB-9	3-GANGx2-1/2" BACKBOX WITH 3-GANG DEVICE PLATE. INSTALLED BY DIVISION 26.
JB-10	MICROPHONE BACKBOX - 4 11/16 X 4 11/16 BACKBOX WITH 1-GANG DEVICE PLATE IN THE CEILING. INSTALLED BY DIVISION 26. (1)

NOTE:

1. COORDINATE INSTALLATION OF ALL A/V BACKBOXES WITH DIVISION 26, 27, AND AV INTEGRATOR PRIOR TO ROUGH IN

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ISSUE/REVISION:

NO.	DATE	COMMENTS
1	2015-03-20	BID ADDENDUM 01

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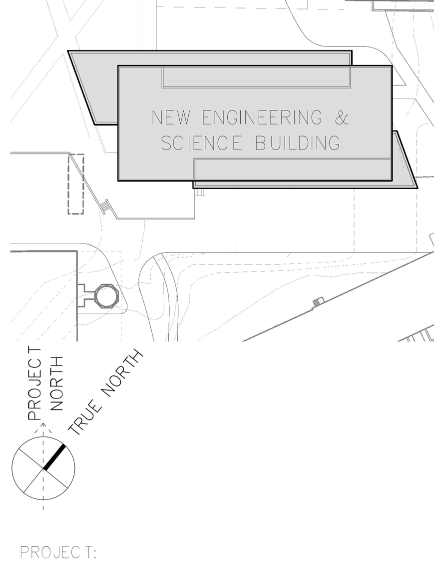
ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK

KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

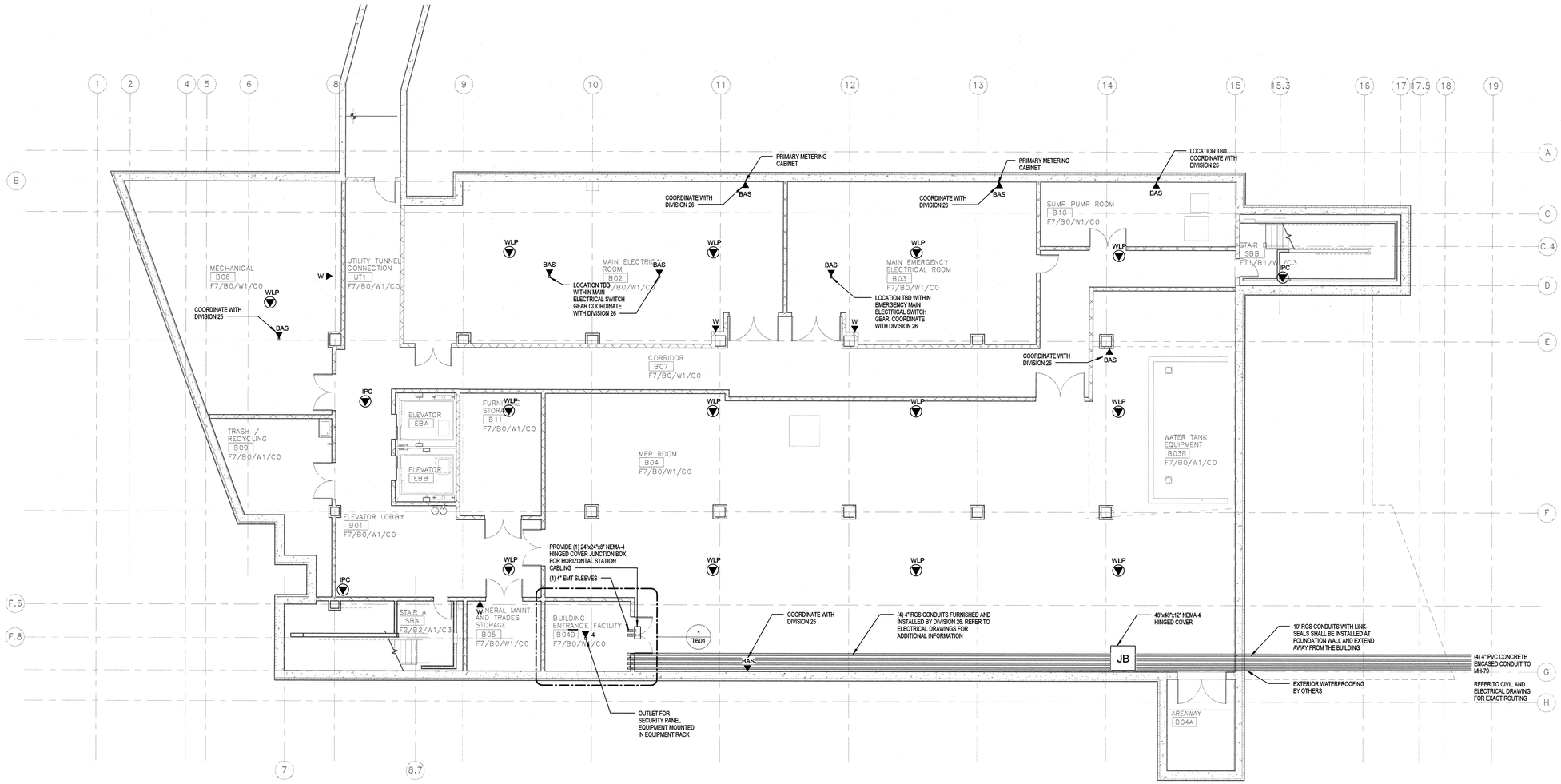
DRAWING TITLE:

COMMUNICATIONS LEGEND AND GENERAL NOTES

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: N.T.S.

T001

CONFORMED SET: 05/29/2015



01 Basement – FLOOR PLAN – COMM
1/8" = 1'-0"

BASEMENT OUTLET COUNT SCHEDULE

OUTLET TYPE	SUBSCRIPT	DEVICE QUANTITY	DATA PORTS	VOICE PORTS	COAXIAL PORTS	PATCH PANELS
2-PORT PENDANT MOUNTED DEVICE	WLP	13	26	0	0	0.54
STANDARD IP CAMERA	IPC	3	3	0	0	0.06
STANDARD 4 PORT	4	1	4	0	0	0.08
STANDARD BAS	BAS	9	18	0	0	0.38
STANDARD WALL PHONE	W	4	4	0	0	0.08
		30	55	0	0	1.15

NOTES:
1. ALL TELECOMMUNICATIONS OUTLETS ON BASEMENT LEVEL SHALL BE WIRED TO IDF ON LEVEL 1.
2. ALL TELECOMMUNICATIONS OUTLETS SHALL BE INSTALLED IN 1" CONDUIT AND HOME-RUN TO THE HORIZONTAL CABLING JUNCTION BOX OUTSODE OF ROOM B040.

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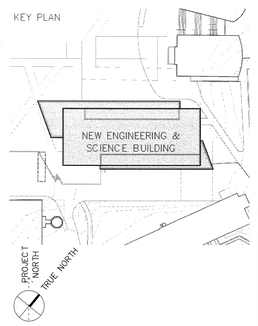


Project:

NEW ENGINEERING AND SCIENCE BUILDING

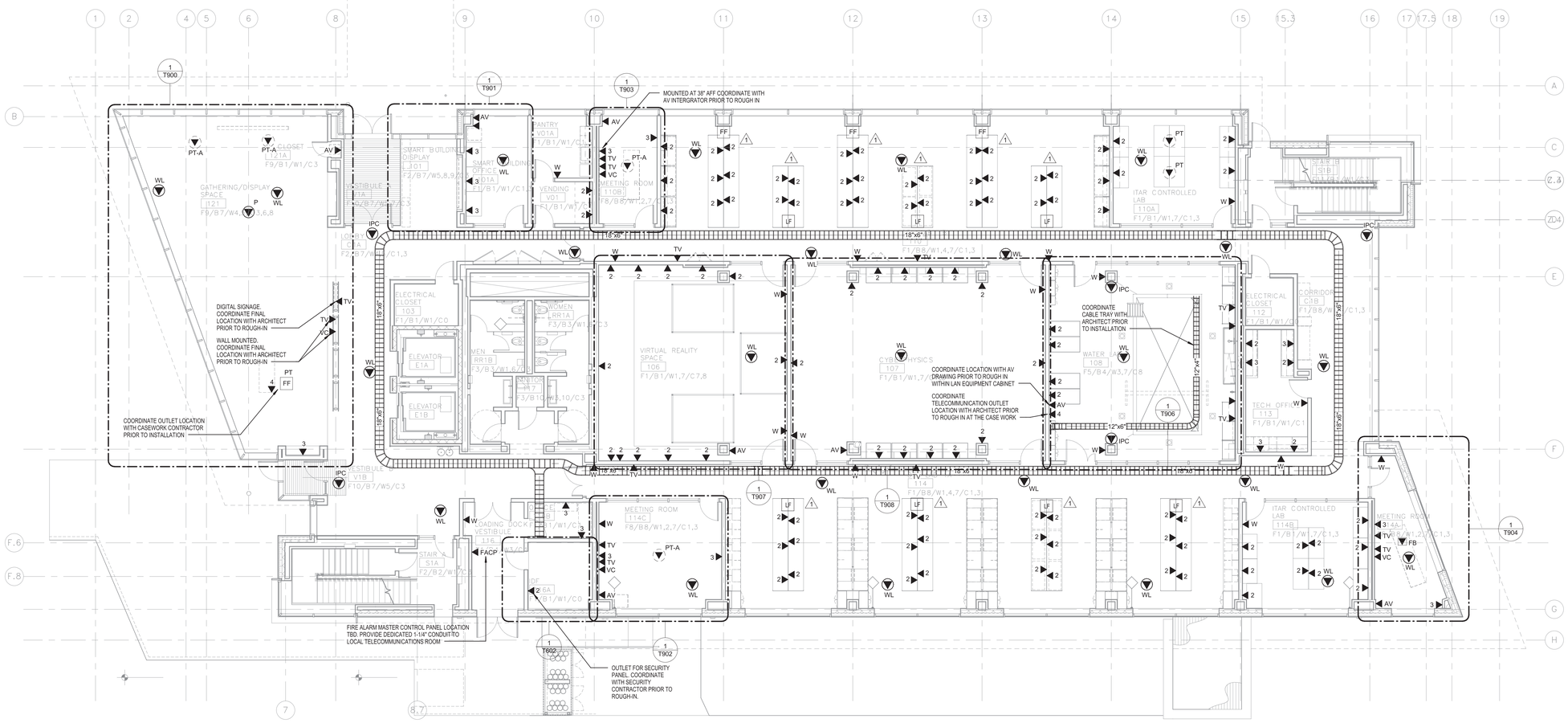
Drawing Title:

COMMUNICATIONS BASEMENT PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

T100

CONFORMED SET: 05/29/2015



01 Floor 1 – FLOOR PLAN – COMM
1/8" = 1'-0"

LEVEL 1 OUTLET COUNT SCHEDULE

OUTLET TYPE	SUBSCRIPT	DEVICE QUANTITY	DATA PORTS	VOICE PORTS	COAXIAL PORTS	FIBER PORTS	PATCH PANELS
PROJECTOR OUTLET	P	1	2	0	0	0	0.04
STANDARD 2-PORT WIRELESS	WL	24	48	0	0	0	1.00
STANDARD IP CAMERA	IPC	5	5	0	0	0	0.10
3-PORT FLOOR BOX	FB	1	2	1	0	0	0.06
BR+A FURNITURE FIXTURE FEED	PT	4	0	0	0	0	0.00
3-PORT POKE-THRU	PT-A	4	8	4	0	0	0.25
STANDARD AV POKE-THRU	PT-A	2	4	2	0	0	0.13
STANDARD POKE-THRU	PT	2	8	0	0	0	0.17
STANDARD 2 BP	BP	1	2	0	0	0	0.04
STANDARD 2 PORT	2	111	222	0	0	0	4.63
STANDARD 3 PORT	3	15	30	15	0	0	0.94
STANDARD 4 PORT	4	2	8	0	0	0	0.17
STANDARD A/V	AV	9	54	0	9	0	1.13
STANDARD FIBER OUTLET	FACP	1	2	0	0	2	0.04
STANDARD TV	TV	15	15	0	15	0	0.31
STANDARD VIDEO CONFERENCING	VC	4	8	0	0	0	0.17
STANDARD WALL PHONE	W	19	19	0	0	0	0.40
		220	437	22	24	2	9.56

CONFORMED SET: 05/29/2015

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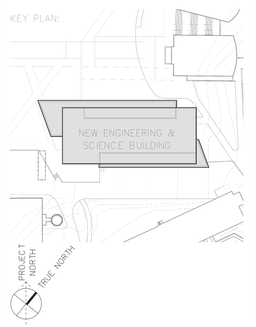
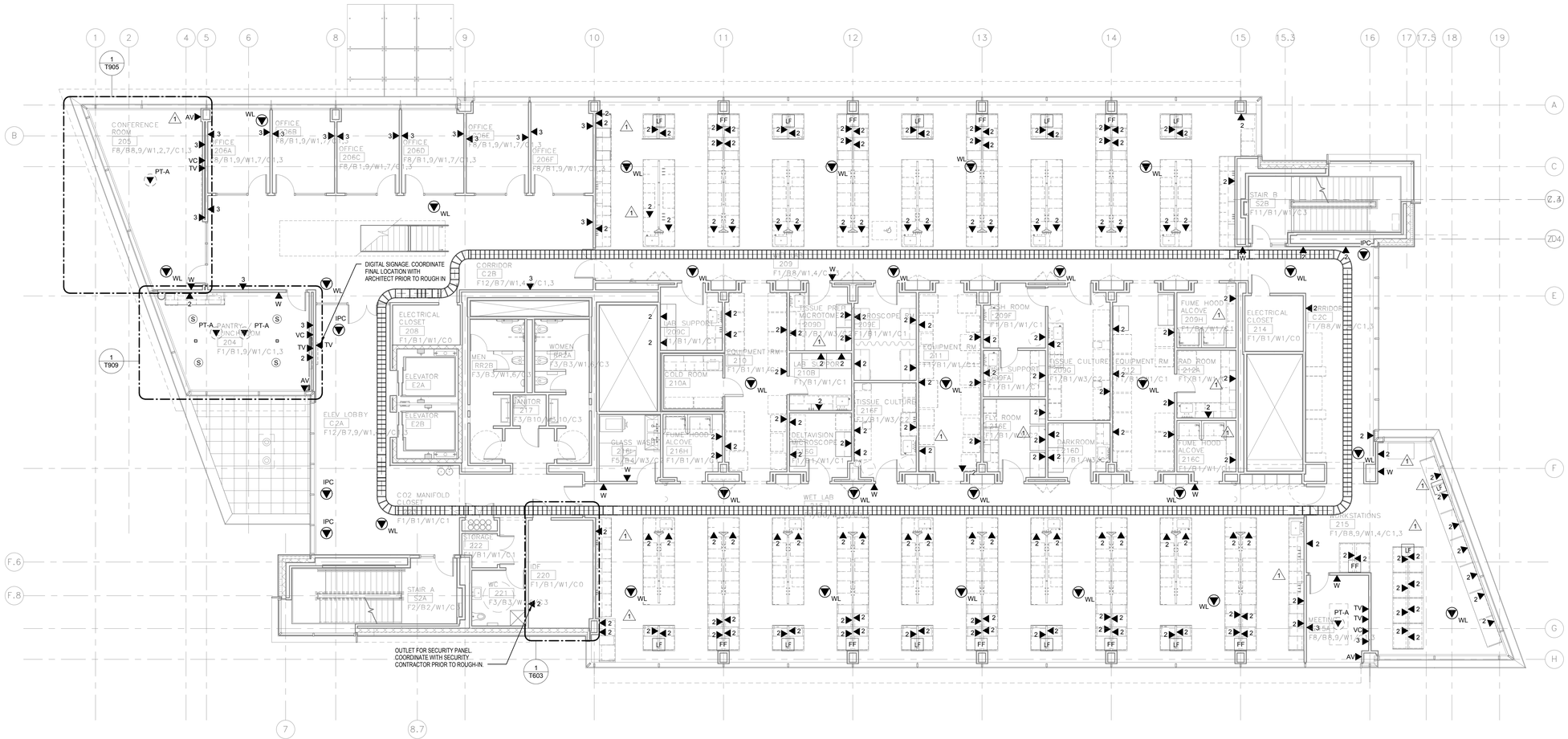


PROJECT:
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:
COMMUNICATIONS FIRST FLOOR PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

T101



01 Floor 2 – FLOOR PLAN – COMM

1/8" = 1'-0"

LEVEL 2 OUTLET COUNT SCHEDULE

OUTLET TYPE	SUBCRIPT	DEVICE QUANTITY	DATA PORTS	VOICE PORTS	COAXIAL PORTS	PATCH PANELS
STANDARD 2-PORT WIRELESS	WL	27	54	0	0	1.13
STANDARD IP CAMERA	IPC	4	4	0	0	0.08
STANDARD AV POKE-THRU	PT-A	5	10	5	0	0.31
STANDARD 2 PORT	2	184	368	0	0	7.67
STANDARD 3 PORT	3	21	42	21	0	1.31
STANDARD A/V	AV	3	18	0	3	0.38
STANDARD TV	TV	5	5	0	5	0.10
STANDARD VIDEO CONFERENCING	VC	3	6	0	0	0.13
STANDARD WALL PHONE	W	10	10	0	0	0.21
		262	517	26	8	11.31

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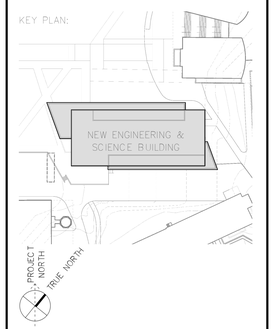


PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

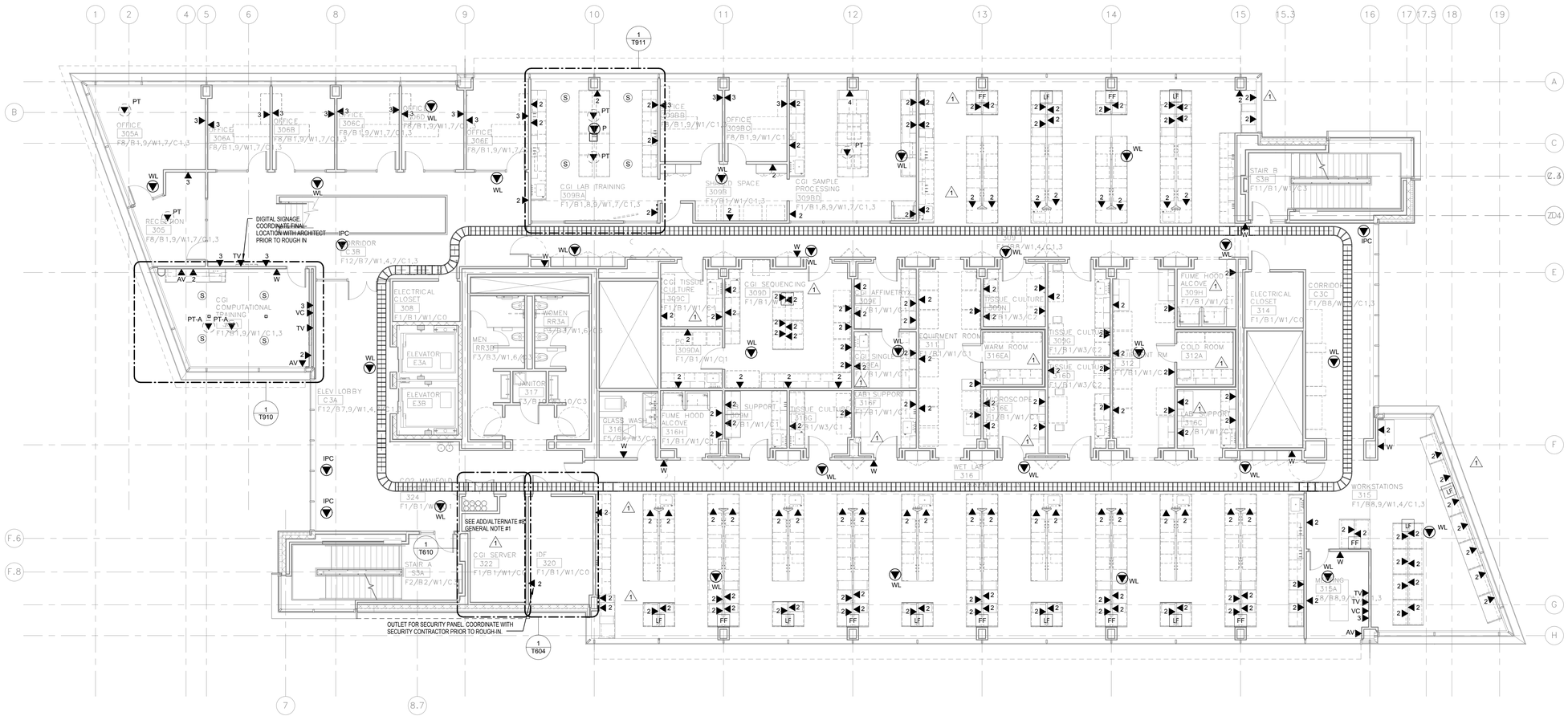
DRAWING TITLE:

COMMUNICATIONS SECOND FLOOR PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

T102

CONFORMED SET: 05/29/2015



01 Floor 3 – FLOOR PLAN – COMM
1/8" = 1'-0"

LEVEL 3 OUTLET COUNT SCHEDULE						
OUTLET TYPE	SUBSCRIPT	DEVICE QUANTITY	DATA PORTS	VOICE PORTS	COAXIAL PORTS	PATCH PANELS
PROJECTOR OUTLET	P	1	2	0	0	0.04
STANDARD 2-PORT WIRELESS	WL	25	50	0	0	1.04
STANDARD IP CAMERA	IPC	4	4	0	0	0.08
STANDARD AV POKE-THRU	PT-A	2	4	2	0	0.13
STANDARD POKE-THRU	PT	5	20	0	0	0.42
STANDARD 2 PORT	2	183	366	0	0	7.63
STANDARD 3 PORT	3	20	40	20	0	1.25
STANDARD 4 PORT	4	1	4	0	0	0.08
STANDARD A/V	AV	3	18	0	3	0.38
STANDARD TV	TV	4	4	0	4	0.08
STANDARD VIDEO CONFERENCING	VC	2	4	0	0	0.08
STANDARD WALL PHONE	W	10	10	0	0	0.21
		260	526	22	7	11.42

1 ADD/ALTERNATE #8 GENERAL NOTE:

1. PLEASE REFER TO SECTION 01-2300 ALTERNATE #8. THE FIT-OUT OUT OF CGI SERVER ROOM SHALL BE INCLUDED IN BASE BID PROJECT. THE ALTERNATE IS FIT-OUT ROOM 322 TO OFFICE SPACE WITH (2) STANDARD 3-PORT TEL/DATA OUTLETS. SEE DRAWING A9.50 FOR FURTHER INFORMATION.

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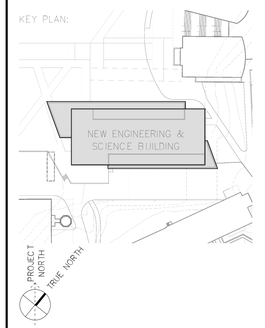


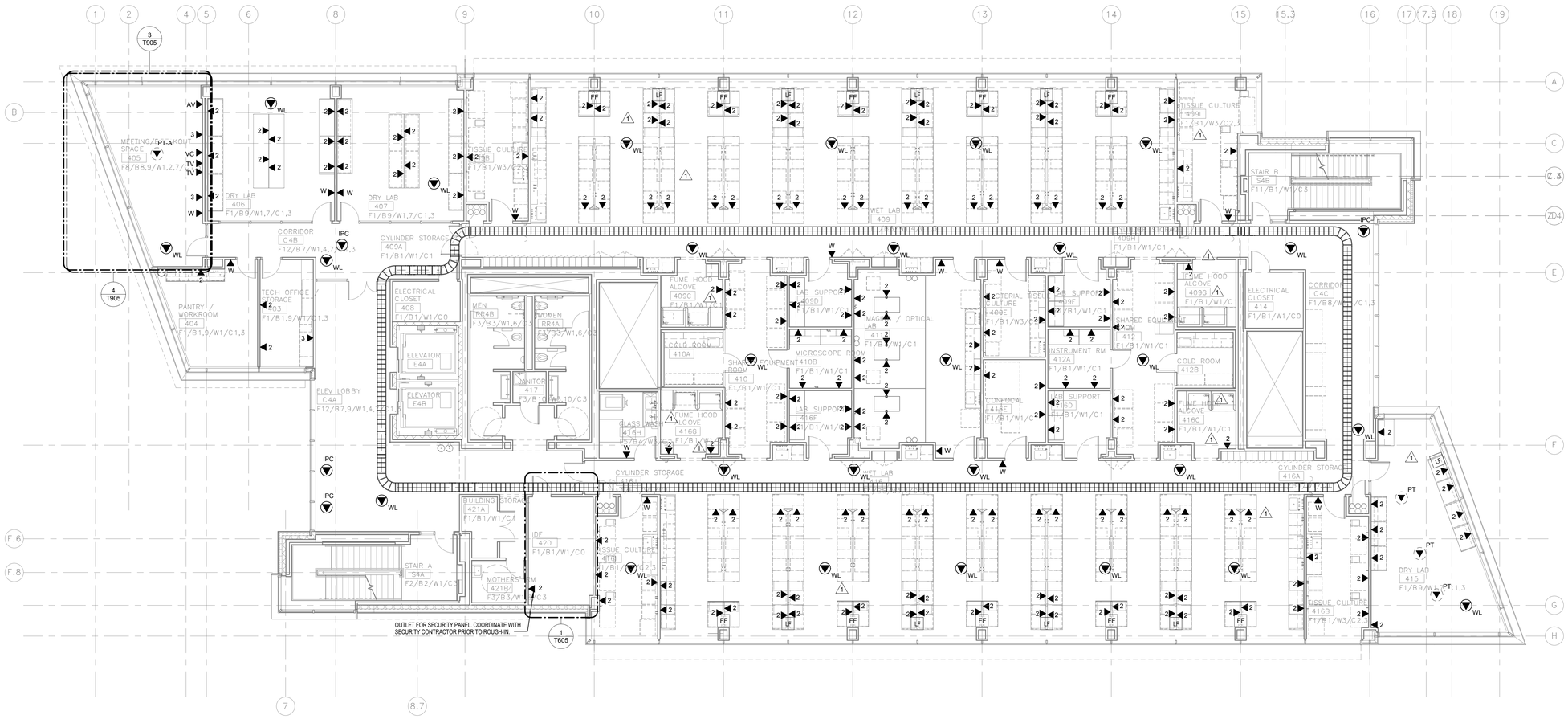
PROJECT:
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:
COMMUNICATIONS THIRD FLOOR PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

T103

CONFORMED SET: 05/29/2015



01 Floor 4 – FLOOR PLAN – COMM
1/8" = 1'-0"

LEVEL 4 OUTLET COUNT SCHEDULE

OUTLET TYPE	SUBCRIPT	DEVICE QUANTITY	DATA PORTS	VOICE PORTS	COAXIAL PORTS	PATCH PANELS
STANDARD 2-PORT WIRELESS	WL	27	54	0	0	1.13
STANDARD IP CAMERA	IPC	4	4	0	0	0.08
STANDARD AV POKE-THRU	PT-A	2	4	2	0	0.13
STANDARD POKE-THRU	PT	3	12	0	0	0.25
STANDARD 2 PORT	2	204	408	0	0	8.50
STANDARD 3 PORT	3	3	6	3	0	0.19
STANDARD A/V	AV	1	6	0	1	0.13
STANDARD TV	TV	2	2	0	2	0.04
STANDARD VIDEO CONFERENCING	VC	1	2	0	0	0.04
STANDARD WALL PHONE	W	14	14	0	0	0.29
		261	512	5	3	10.77

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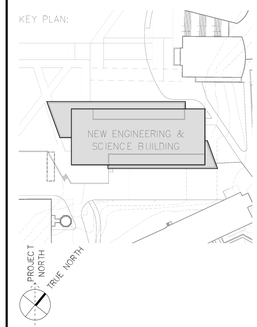


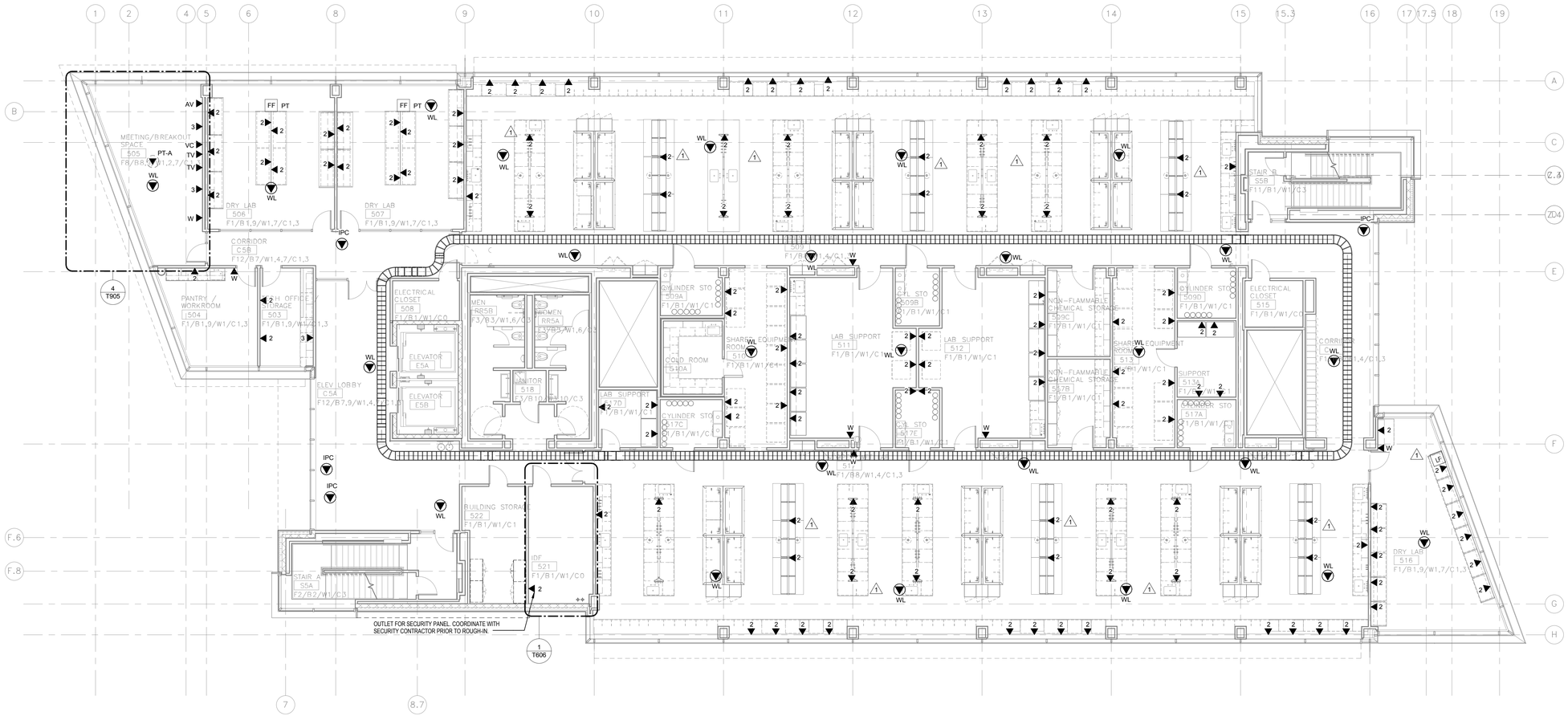
PROJECT:
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:
COMMUNICATIONS FOURTH FLOOR PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

T104

CONFORMED SET: 05/29/2015



01 Floor 5 – FLOOR PLAN – COMM
1/8" = 1'-0"

LEVEL 5 OUTLET COUNT SCHEDULE

OUTLET TYPE	SUBSCRIPT	DEVICE QUANTITY	DATA PORTS	VOICE PORTS	COAXIAL PORTS	PATCH PANELS
STANDARD 2-PORT WIRELESS	WL	25	50	0	0	1.04
STANDARD IP CAMERA	IPC	4	4	0	0	0.08
STANDARD AV POKE-THRU	PT-A	1	2	1	0	0.06
STANDARD 2 PORT	2	128	256	0	0	5.33
STANDARD 3 PORT	3	3	6	3	0	0.19
STANDARD A/V	AV	1	6	0	1	0.13
STANDARD TV	TV	2	2	0	2	0.04
STANDARD VIDEO CONFERENCING	VC	1	2	0	0	0.04
STANDARD WALL PHONE	W	7	7	0	0	0.15
		172	335	4	3	7.06

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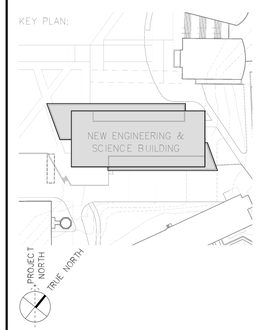


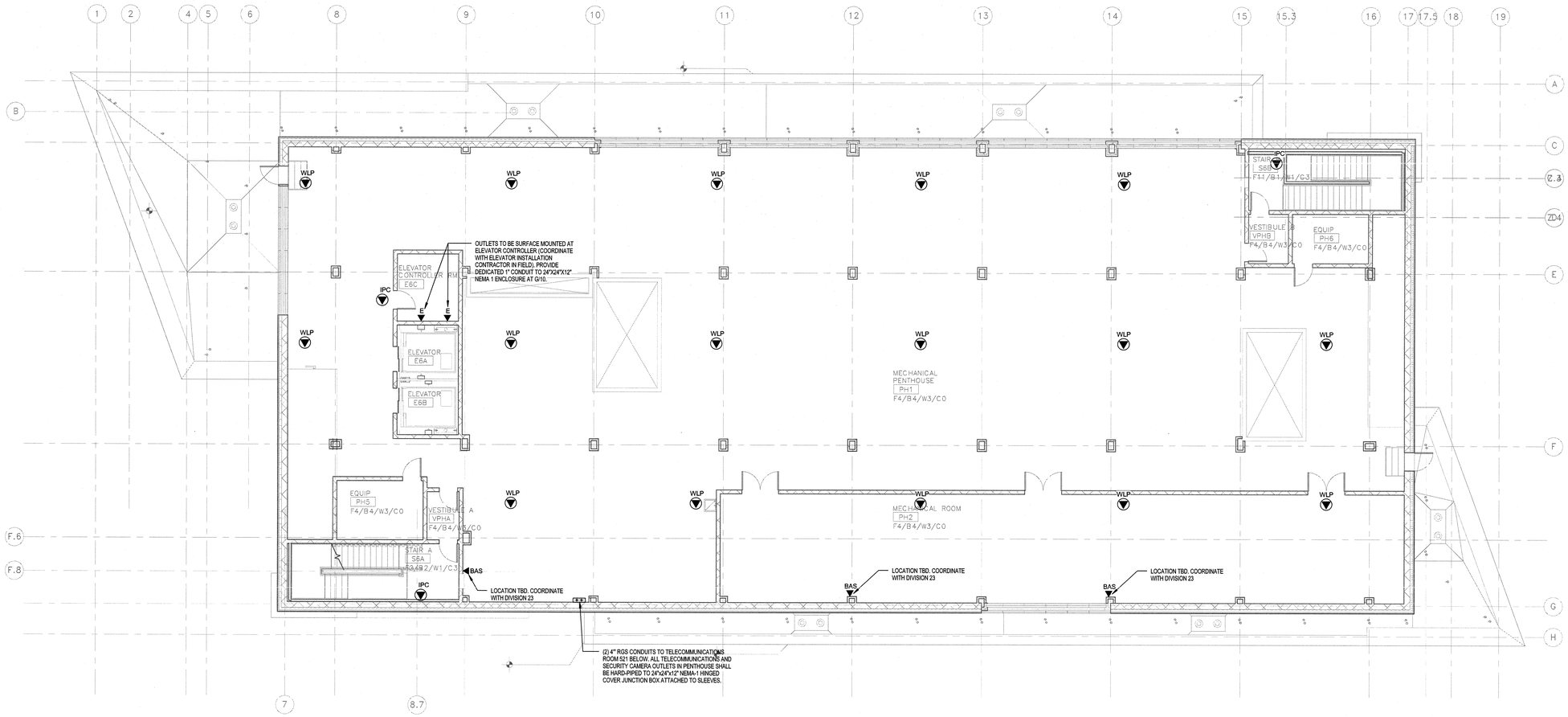
PROJECT:
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:
COMMUNICATIONS FIFTH FLOOR PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

T105

CONFORMED SET: 05/29/2015



NOTES:

1. ALL TELECOMMUNICATIONS OUTLETS ON PENTHOUSE LEVEL SHALL BE WIRED TO IDF ON LEVEL 5

01 Penthouse – FLOOR PLAN – COMM

1/8" = 1'-0"

PENTHOUSE OUTLET COUNT SCHEDULE

OUTLET TYPE	SUBSCRIPT	DEVICE QUANTITY	DATA PORTS	VOICE PORTS	COAXIAL PORTS	PATCH PANELS
2-PORT PENDANT MOUNTED DEVICE	WLP	16	32	0	0	0.67
STANDARD IP CAMERA	IPC	3	3	0	0	0.06
STANDARD BAS	BAS	3	6	0	0	0.13
STANDARD ELEVATOR	E	2	4	0	0	0.08
		24	45	0	0	0.94

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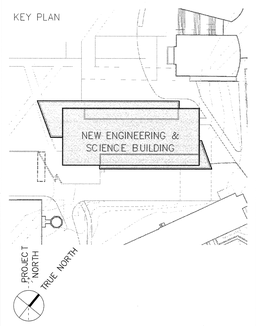


Project:

NEW ENGINEERING AND SCIENCE BUILDING

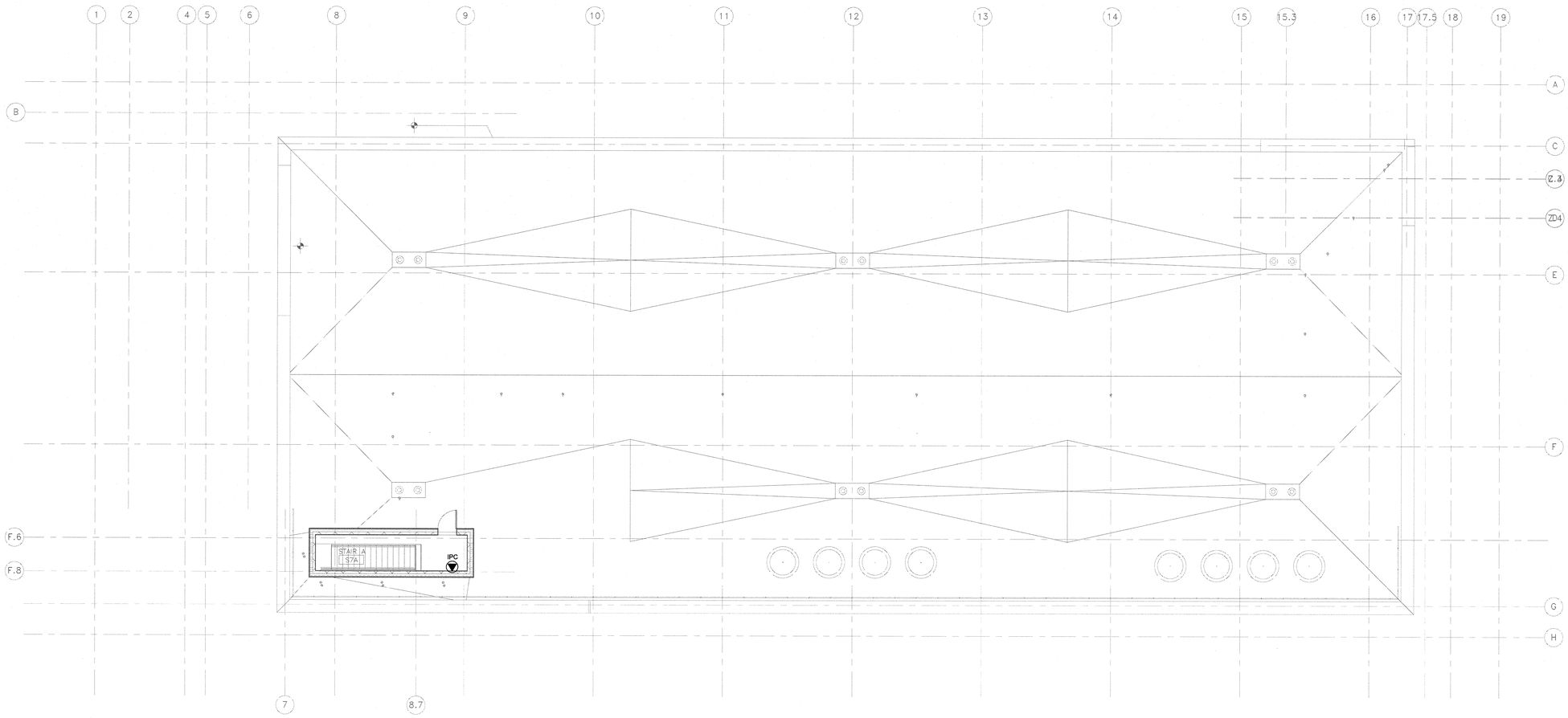
Drawing Title:

COMMUNICATIONS PENTHOUSE PLAN

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

T106

CONFORMED SET: 05/29/2015



01 Rooftop – FLOOR PLAN – COMM
1/8" = 1'-0"

NOTE: ALL TELECOMMUNICATIONS OUTLETS ON THE ROOF LEVEL SHALL BE WIRED TO THE IDF ON LEVEL 5.

ROOFTOP OUTLET COUNT SCHEDULE

OUTLET TYPE	SUBSCRIPT	DEVICE QUANTITY	DATA PORTS	VOICE PORTS	COAXIAL PORTS	PATCH PANELS
STANDARD IP CAMERA	IPC	1	1	0	0	0.02
		1	1	0	0	0.02

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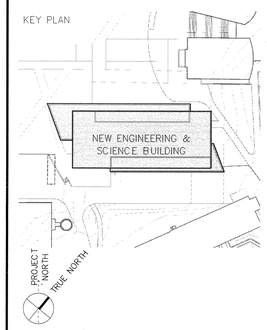
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

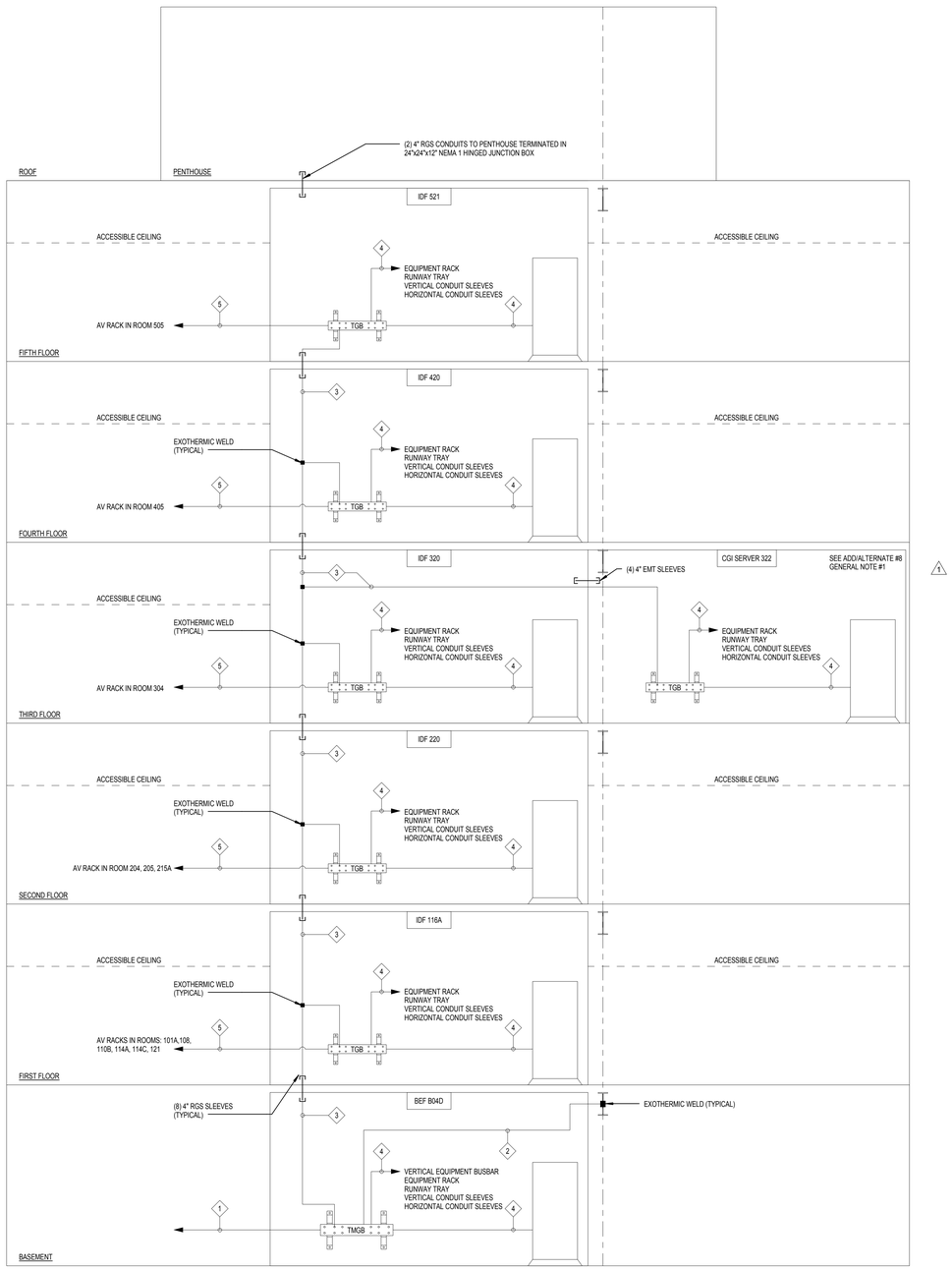
Drawing Title:

COMMUNICATIONS ROOFTOP PLAN

CONFORMED SET: 05/29/2015

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

T107



COMMUNICATIONS GROUNDING AND CONDUIT RISER DIAGRAM

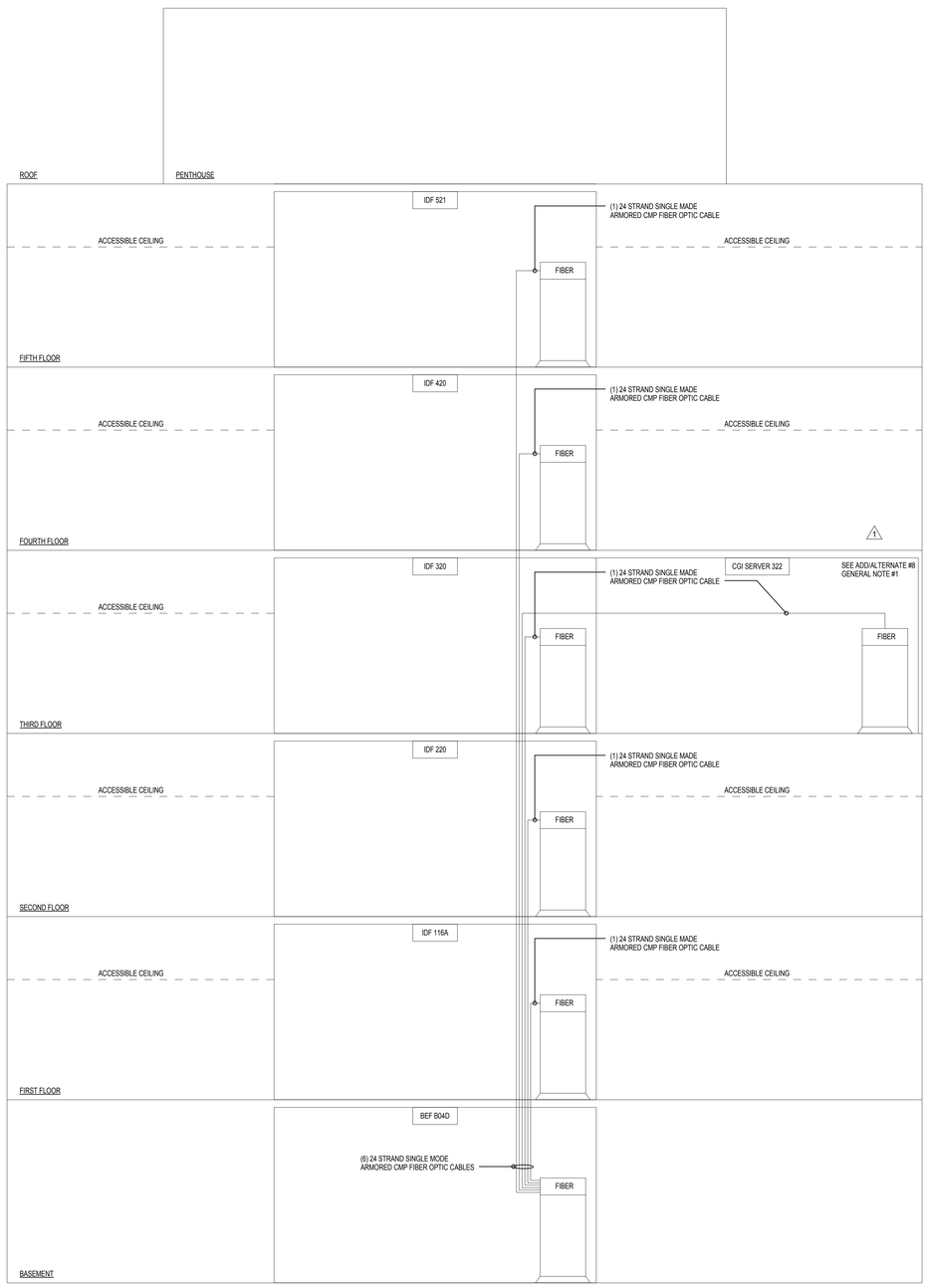
SCALE: NTS

KEY NOTES:

1. 4/0 THHN BCT TO MAIN ELECTRICAL SERVICE GROUND IN 2" CONDUIT. COORDINATE WITH DIVISION 26.
2. 3/0 THHN TBB TO STRUCTURAL STEEL
3. 3/0 THHN TBB BETWEEN TMGB AND TGB
4. #6 THHN TEBC TO TMGB AND TGB
5. 1/0 THHN TEBC TO AV RACKS IN 1" EMT CONDUIT

NOTES:

1. CONTRACTOR TO PROVIDE RACK MOUNTED GROUND BAR FOR AV RACK IN ROOMS MENTIONED ABOVE.
2. COORDINATE WITH AV INTEGRATOR PRIOR TO GROUND BAR INSTALLATION WITHIN AV RACK
3. CONTRACTOR TO REFER TO DIVISION 26 SECTION 26-05-20 FOR ADDITIONAL INFORMATION.



COMMUNICATIONS FIBER OPTIC BACKBONE RISER DIAGRAM

SCALE: NTS

ADD/ALTERNATE #8 GENERAL NOTE:

1. PLEASE REFER TO SECTION 01-2300 ALTERNATE #8. THE FIT-OUT OUT OF CGI SERVER ROOM SHALL BE INCLUDED IN BASE BID PROJECT. THE ALTERNATE IS FIT-OUT ROOM 322 TO OFFICE SPACE WITH (2) STANDARD 3-PORT TEL/DATA OUTLETS. SEE DRAWING A9.50 FOR FURTHER INFORMATION.

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LEED CONSULTANT:
Steven Winter Associates, Inc.
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203 857 0200

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	2015-03-20	BID ADDENDUM 01

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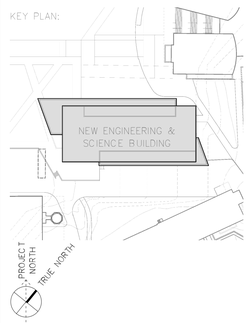
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

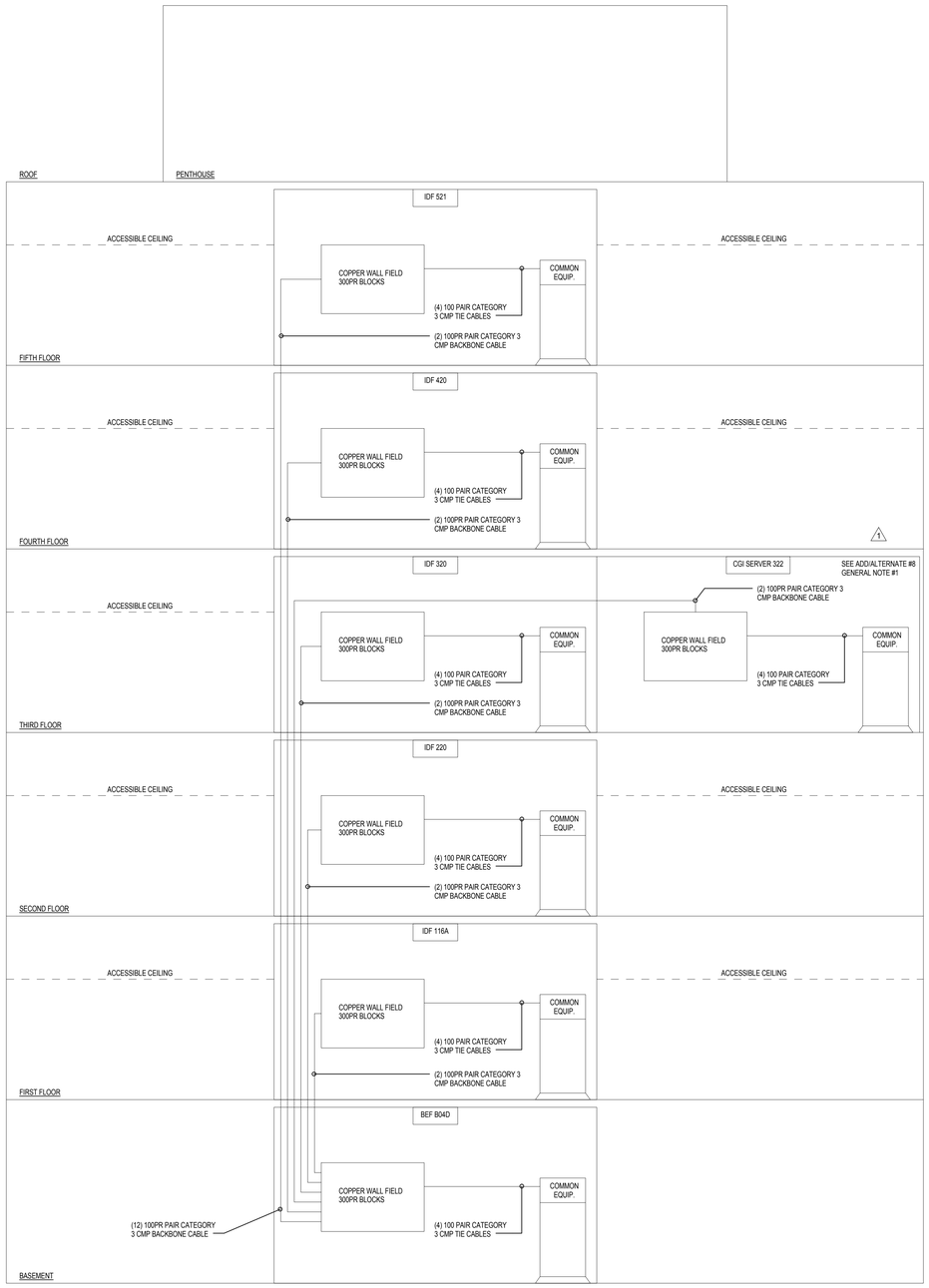
DRAWING TITLE:

COMMUNICATIONS GROUNDING & FIBER RISER DIAGRAMS

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1 1/2" = 1'-0"

T301

CONFORMED SET: 05/29/2015



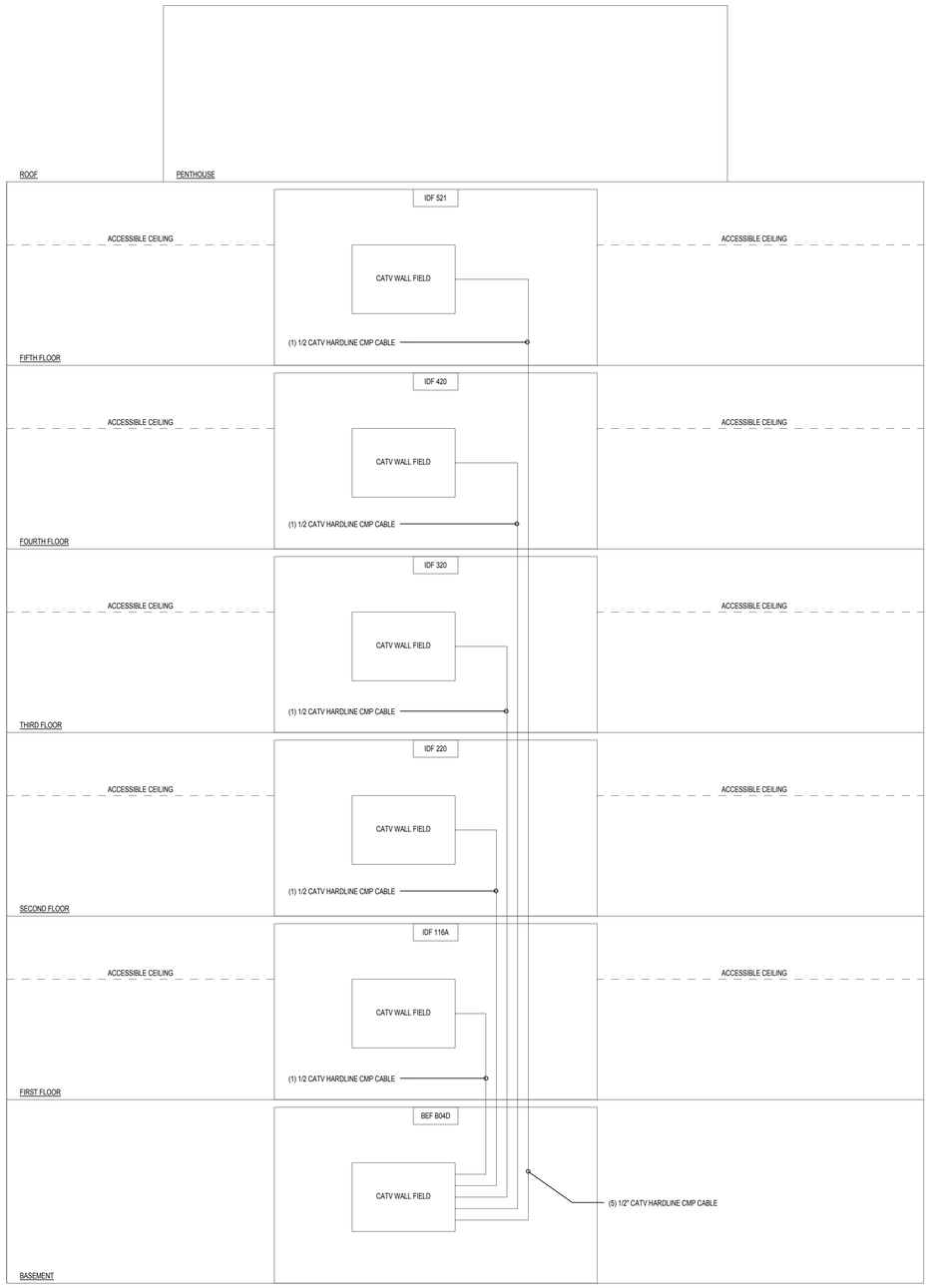
COMMUNICATIONS COPPER RISER DIAGRAM

SCALE: NTS

ADD/ALTERNATE #8 GENERAL NOTE:

1. PLEASE REFER TO SECTION 01-2300 ALTERNATE #8. THE FIT-OUT OUT OF CGI SERVER ROOM SHALL BE INCLUDED IN BASE BID PROJECT. THE ALTERNATE IS FIT-OUT ROOM 322 TO OFFICE SPACE WITH (2) STANDARD 3-PORT TEL/DATA OUTLETS. SEE DRAWING A9.50 FOR FURTHER INFORMATION.

1



COMMUNICATIONS COAXIAL RISER DIAGRAM

SCALE: NTS

NOTE:

1. LEAVE 20' SERVICE LOOP ON BOTH ENDS
2. TERMINATION/TESTING BY UCONN UITS

CONFORMED SET: 05/29/2015

UNIVERSITY OF CONNECTICUT

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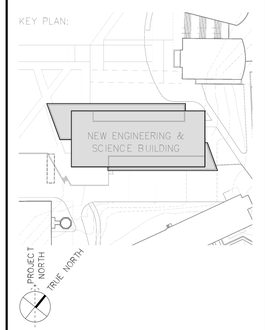
KEY PLAN:



PROJECT:

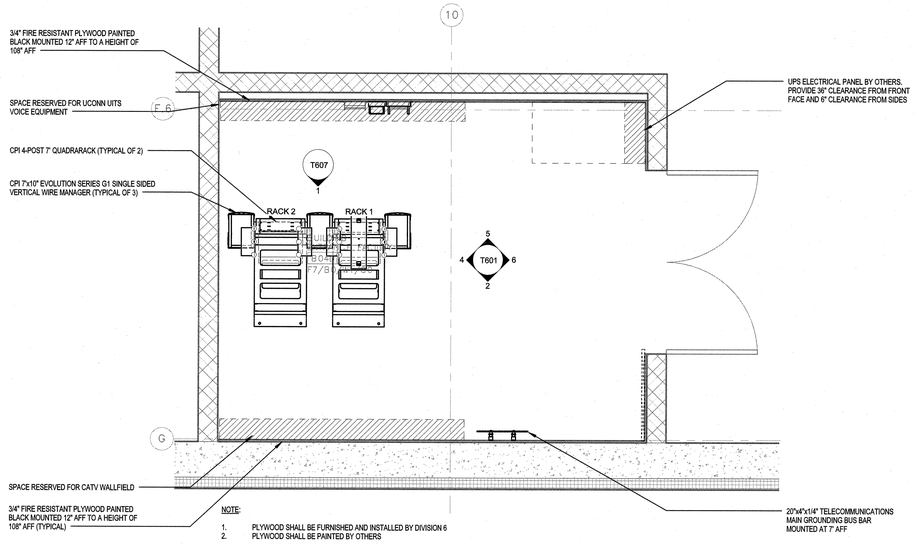
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:

COMMUNICATIONS COPPER & COAXIAL RISER DIAGRAMS

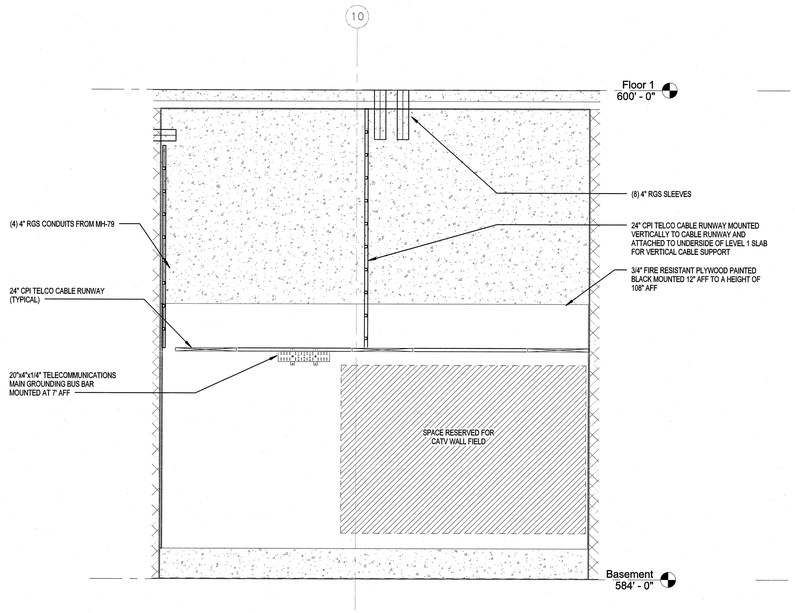
PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1 1/2" = 1'-0"

T302

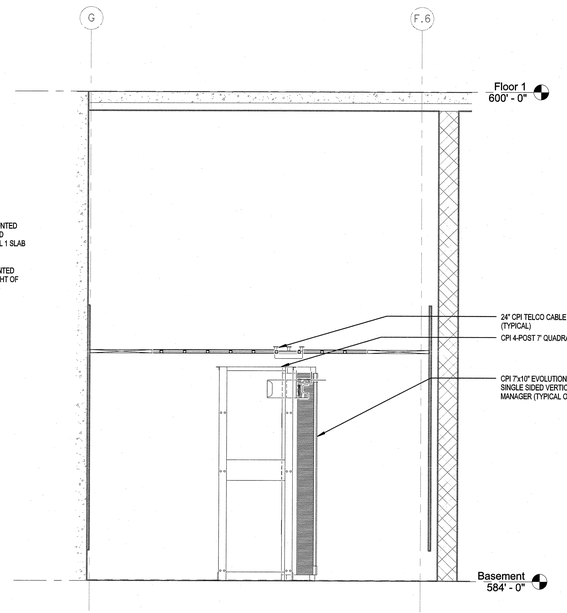


NOTE:
1. PLYWOOD SHALL BE FURNISHED AND INSTALLED BY DIVISION 6
2. PLYWOOD SHALL BE PAINTED BY OTHERS

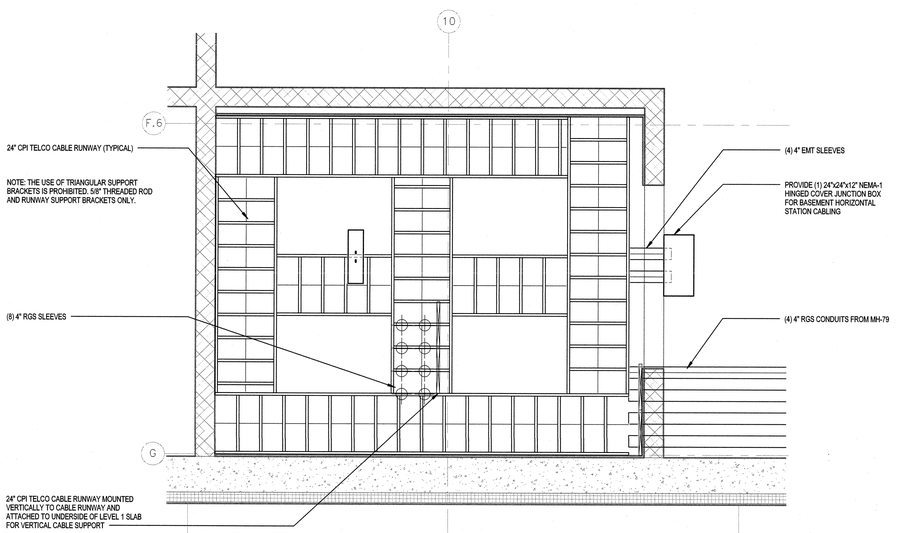
1 BUILDING ENTRANCE FACILITY B04D PART PLAN
1/2" = 1'-0"



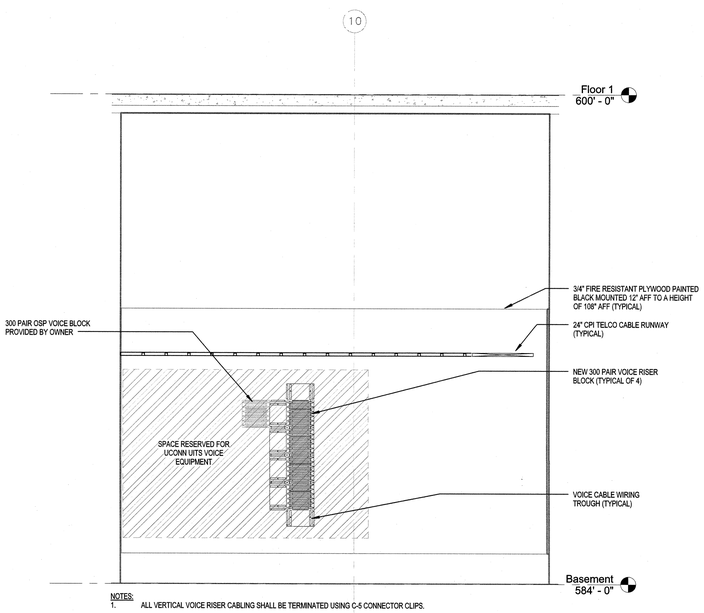
2 BUILDING ENTRANCE FACILITY B04D SOUTH WALL ELEVATION
1/2" = 1'-0"



4 BUILDING ENTRANCE FACILITY B04D WEST WALL ELEVATION
1/2" = 1'-0"

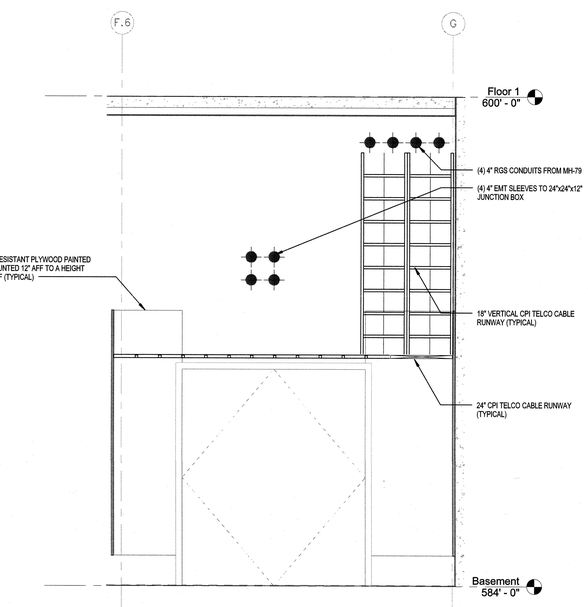


3 BUILDING ENTRANCE FACILITY B04D CEILING PLAN
1/2" = 1'-0"



NOTES:
1. ALL VERTICAL VOICE RISER CABLING SHALL BE TERMINATED USING C-5 CONNECTOR CLIPS.

5 BUILDING ENTRANCE FACILITY B04D NORTH WALL ELEVATION
1/2" = 1'-0"



6 BUILDING ENTRANCE FACILITY B04D EAST WALL ELEVATION
1/2" = 1'-0"

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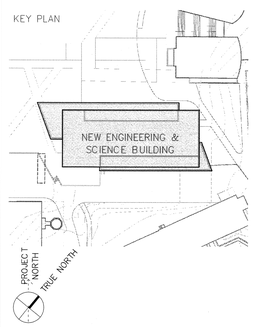
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

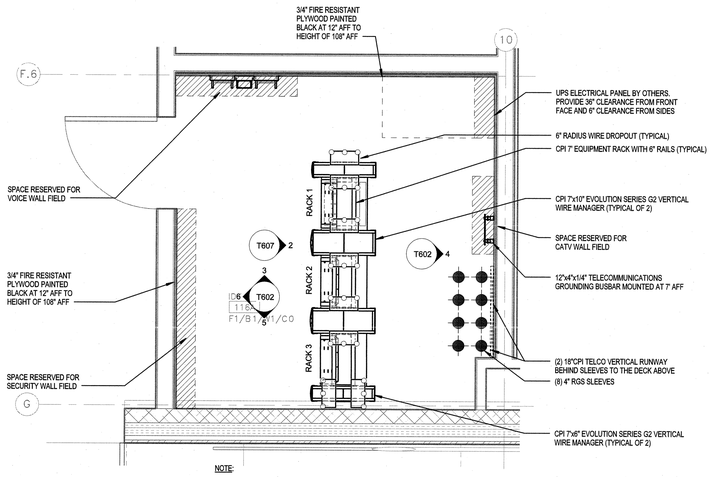
Drawing Title:

COMMUNICATIONS PART PLANS AND ELEVATIONS

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/2" = 1'-0"

T601

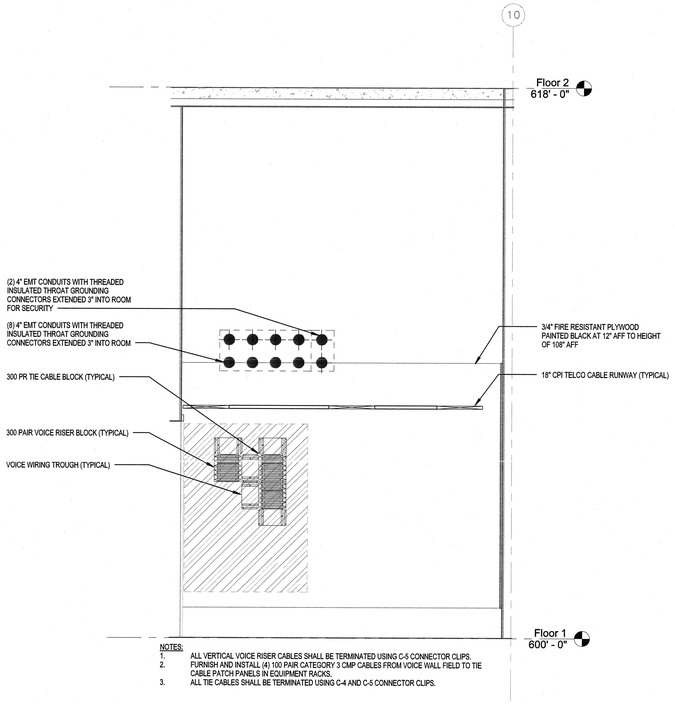
CONFORMED SET: 05/20/2015



NOTE:

1. PLYWOOD SHALL BE FURNISHED AND INSTALLED BY DIVISION 6
2. PLYWOOD SHALL BE PAINTED BY OTHERS

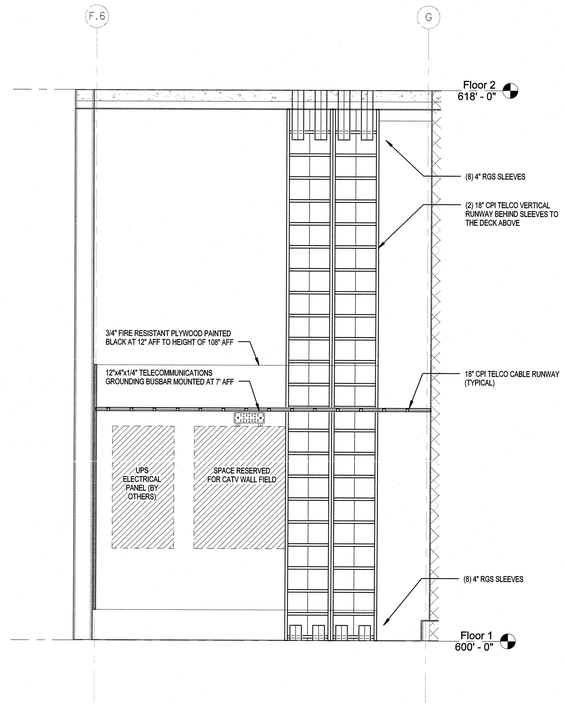
1 IDF 116A PART PLAN
1/2" = 1'-0"



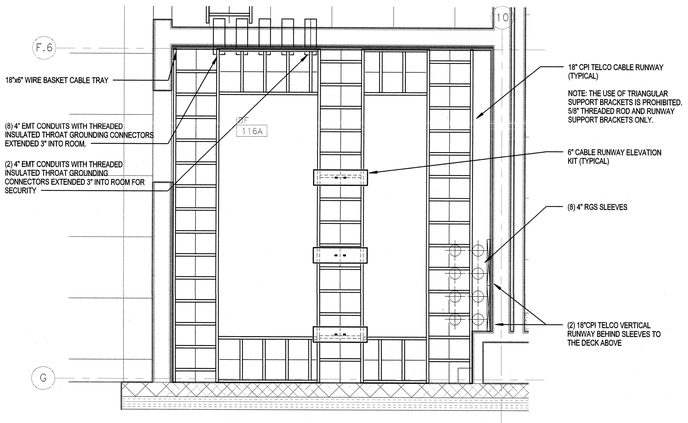
NOTES:

1. ALL VERTICAL VOICE RISER CABLES SHALL BE TERMINATED USING C-5 CONNECTOR CLIPS.
2. FURNISH AND INSTALL (4) 100 PAIR CATEGORY 3 CMP CABLES FROM VOICE WALL FIELD TO TIE CABLE PATCH PANELS IN EQUIPMENT RACKS.
3. ALL TIE CABLES SHALL BE TERMINATED USING C-4 AND C-5 CONNECTOR CLIPS.

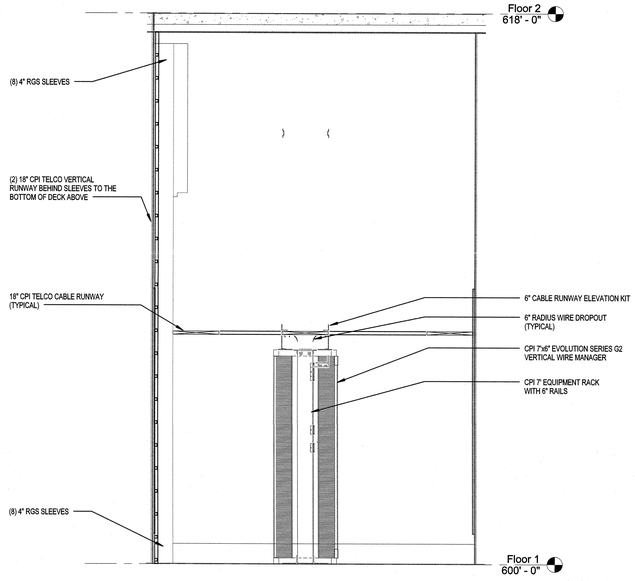
3 IDF 116A NORTH WALL ELEVATION
1/2" = 1'-0"



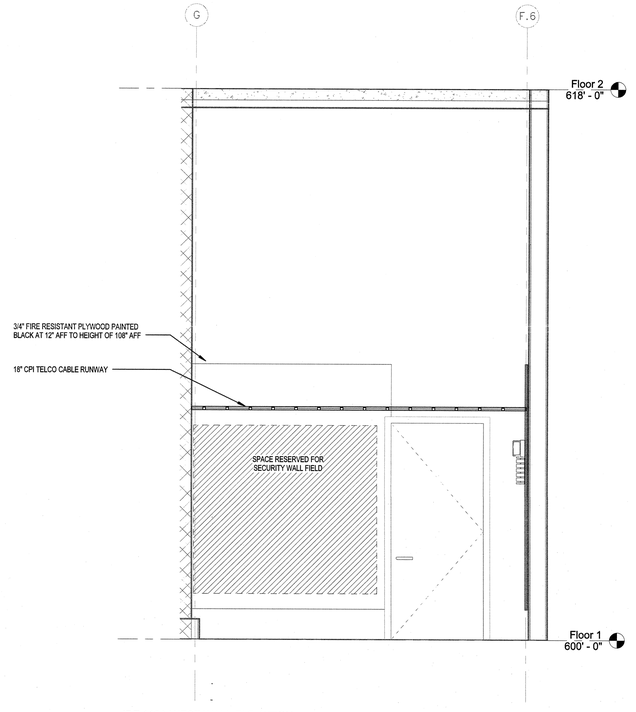
4 IDF 116A EAST WALL ELEVATION
1/2" = 1'-0"



2 IDF 116A CEILING PLAN
1/2" = 1'-0"



5 IDF 116A SOUTH WALL ELEVATION
1/2" = 1'-0"



6 IDF 116A WEST WALL ELEVATION
1/2" = 1'-0"

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ISSUE/REVISION:

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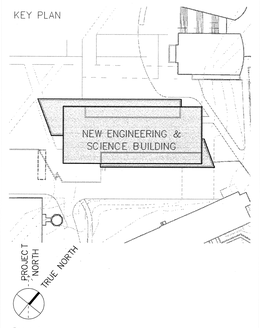
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

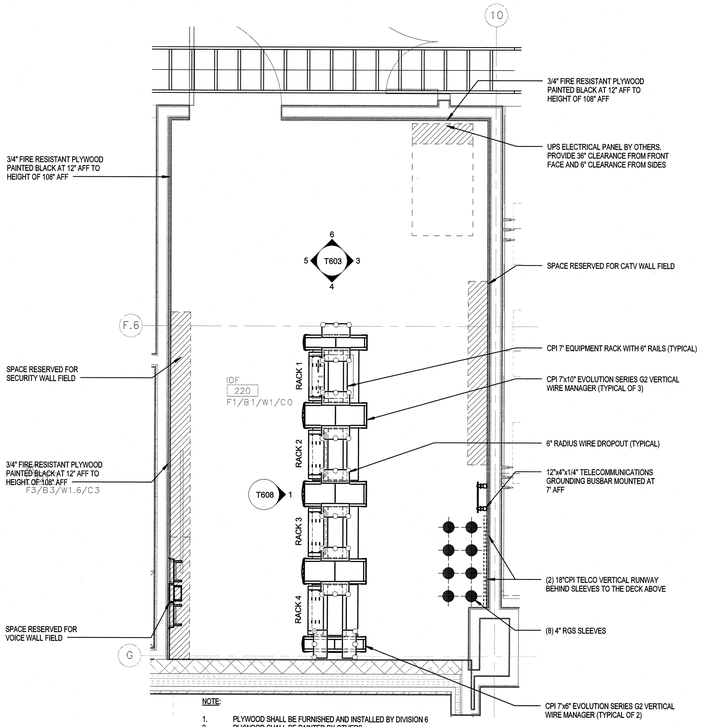
Drawing Title:

COMMUNICATIONS PART PLANS AND ELEVATIONS

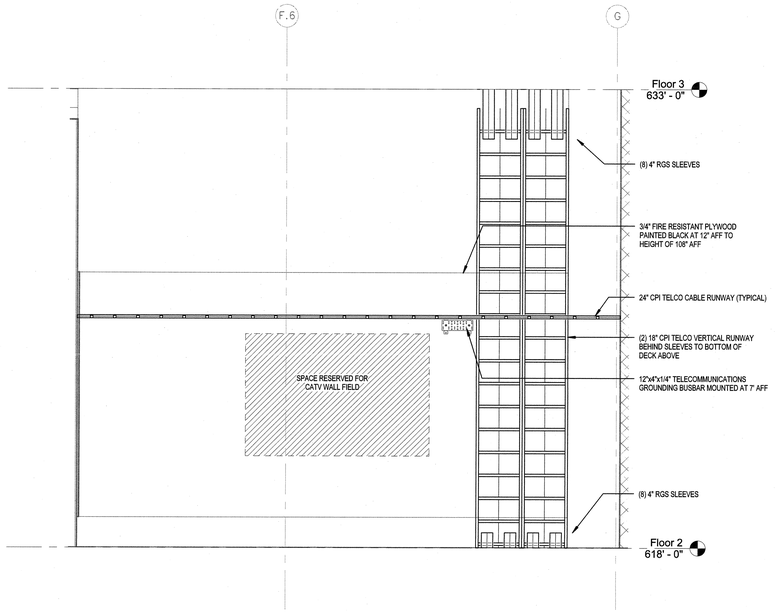
PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/2" = 1'-0"

T602

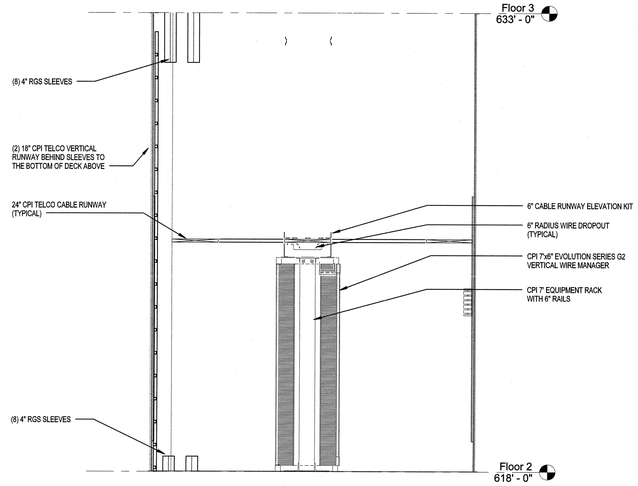
CONFORMED SET 05/29/2015



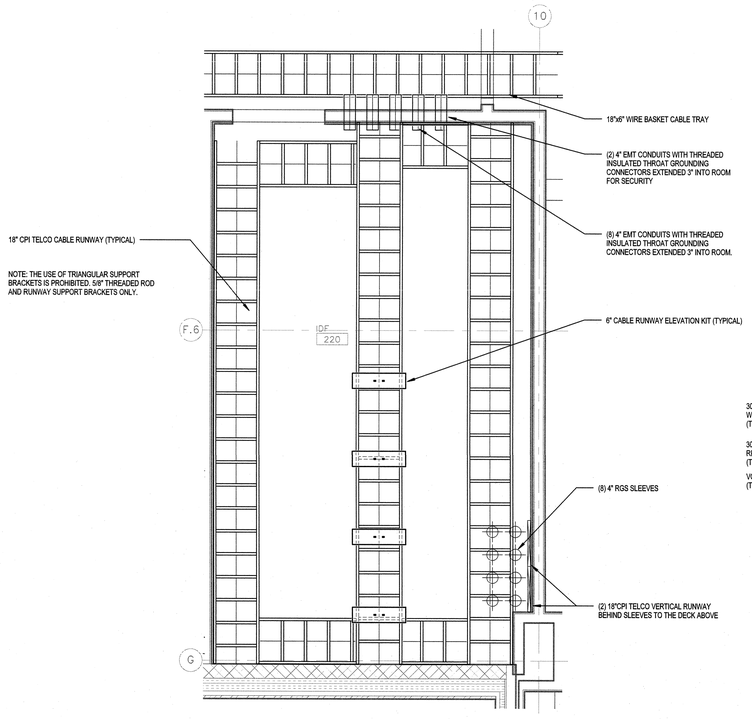
1 IDF 220 PART PLAN
1/2" = 1'-0"



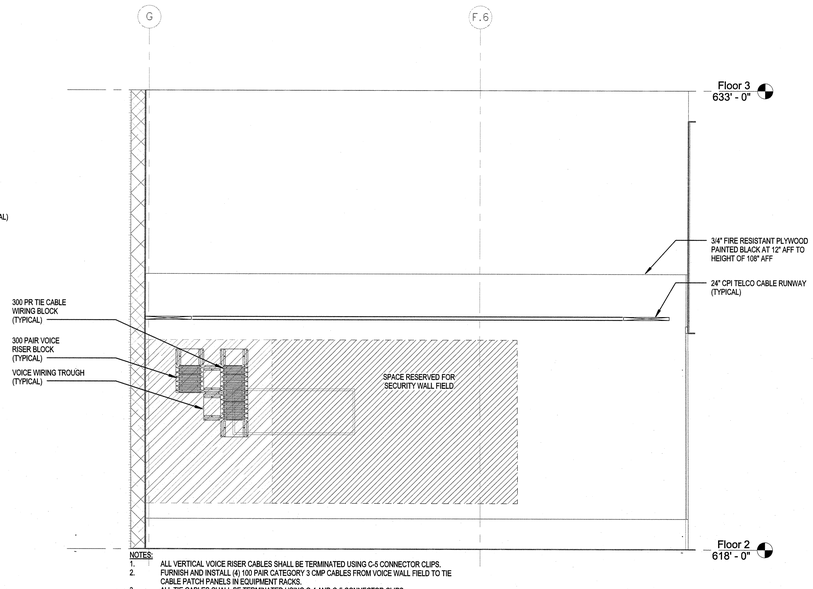
3 IDF 220 EAST WALL ELEVATION
1/2" = 1'-0"



4 IDF 220 SOUTH WALL ELEVATION
1/2" = 1'-0"

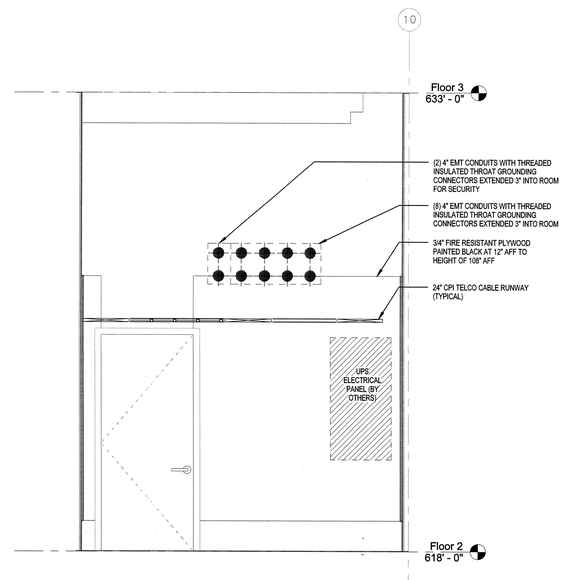


2 IDF 220 CEILING PLAN
1/2" = 1'-0"



NOTES:
1. ALL VERTICAL VOICE RISER CABLES SHALL BE TERMINATED USING C-5 CONNECTOR CLIPS.
2. FURNISH AND INSTALL (4) 100 PAIR CATEGORY 3 CMP CABLES FROM VOICE WALL FIELD TO TIE CABLE PATCH PANELS IN EQUIPMENT RACKS.
3. ALL TIE CABLES SHALL BE TERMINATED USING C-4 AND C-5 CONNECTOR CLIPS.

5 IDF 220 WEST WALL ELEVATION
1/2" = 1'-0"



6 IDF 220 NORTH WALL ELEVATION
1/2" = 1'-0"

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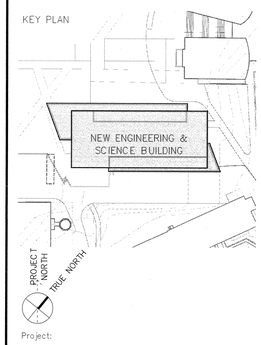


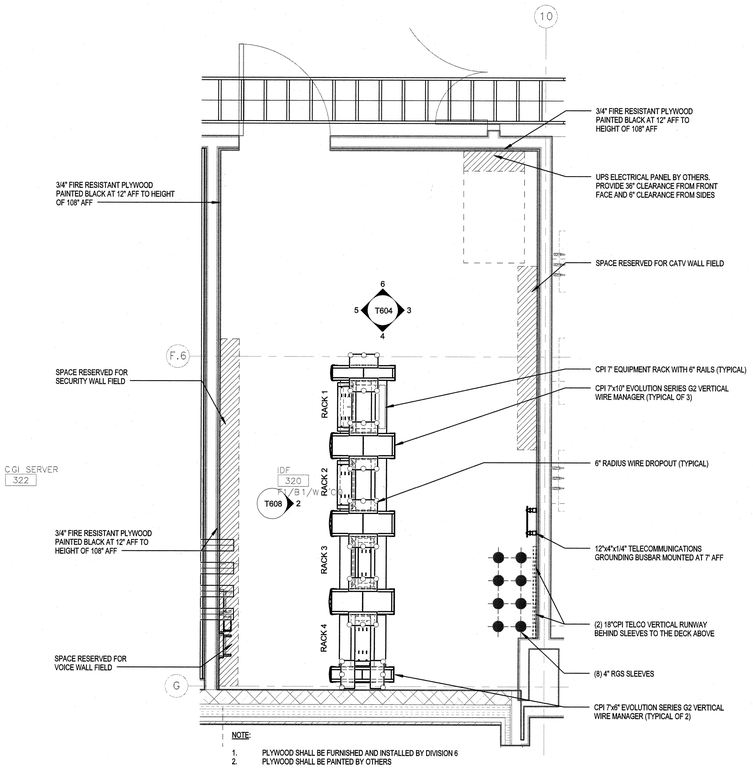
Project:
NEW ENGINEERING AND SCIENCE BUILDING

Drawing Title:
COMMUNICATIONS PART PLANS AND ELEVATIONS

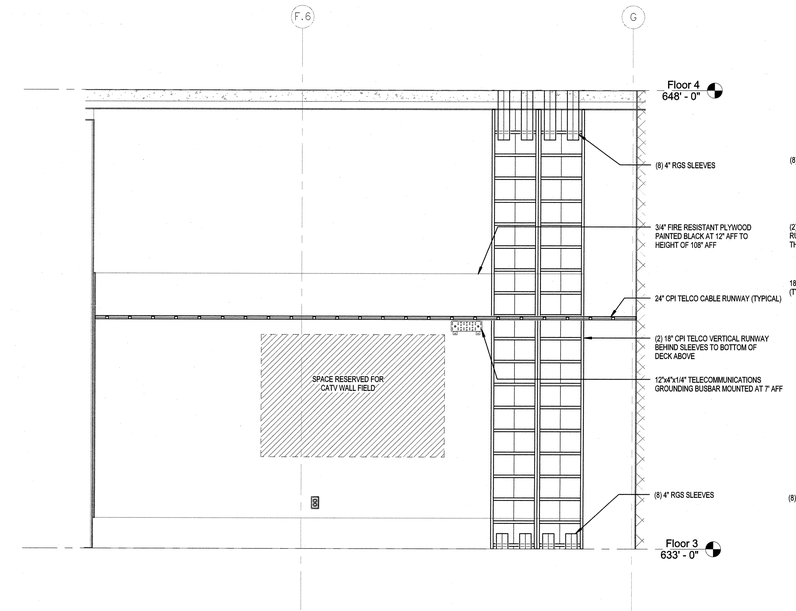
PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/2" = 1'-0"

T603

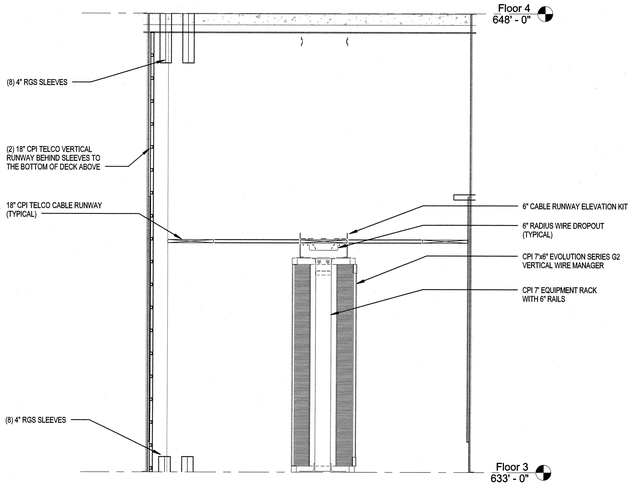
CONFORMED SET 05/29/2015



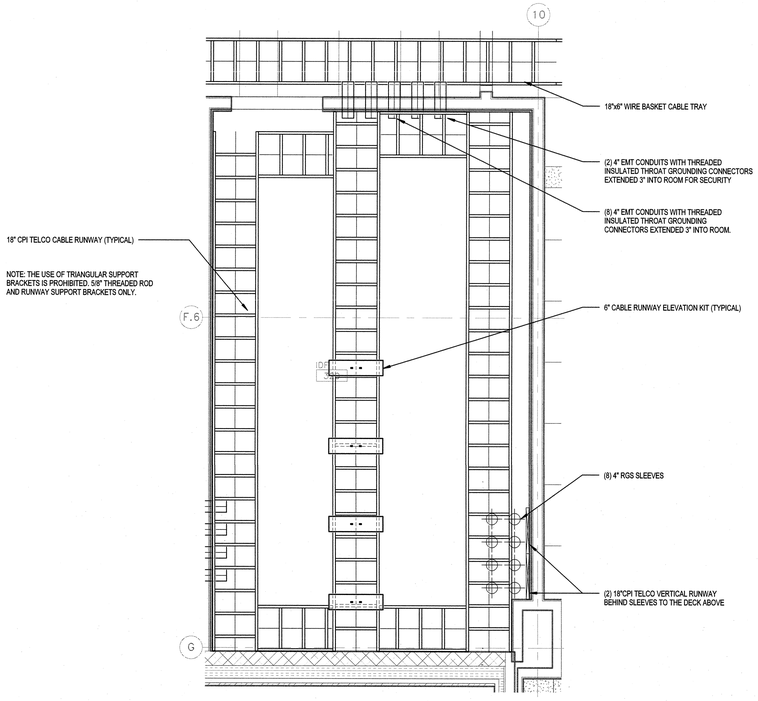
1 IDF 320 PART PLAN
1/2" = 1'-0"



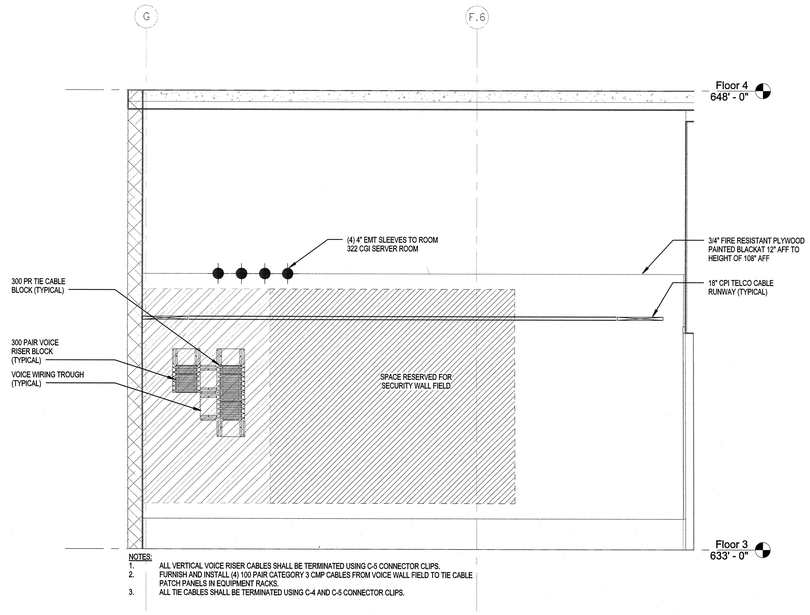
3 IDF 320 EAST WALL ELEVATION
1/2" = 1'-0"



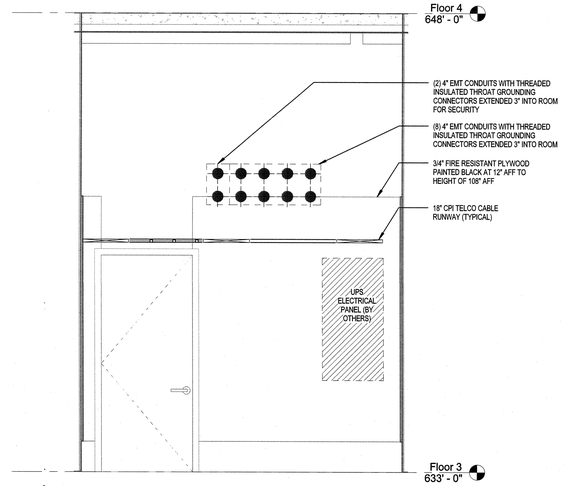
4 IDF 320 SOUTH WALL ELEVATION
1/2" = 1'-0"



2 IDF 320 CEILING PLAN
1/2" = 1'-0"



5 IDF 320 WEST WALL ELEVATION
1/2" = 1'-0"



6 IDF 320 NORTH WALL ELEVATION
1/2" = 1'-0"

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LICENSED PROFESSIONAL ENGINEER

ISSUE/REVISION:

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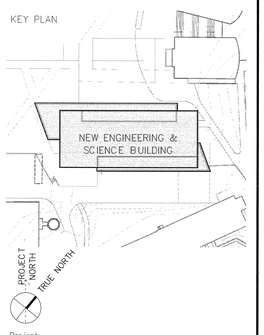


Project:

NEW ENGINEERING AND SCIENCE BUILDING

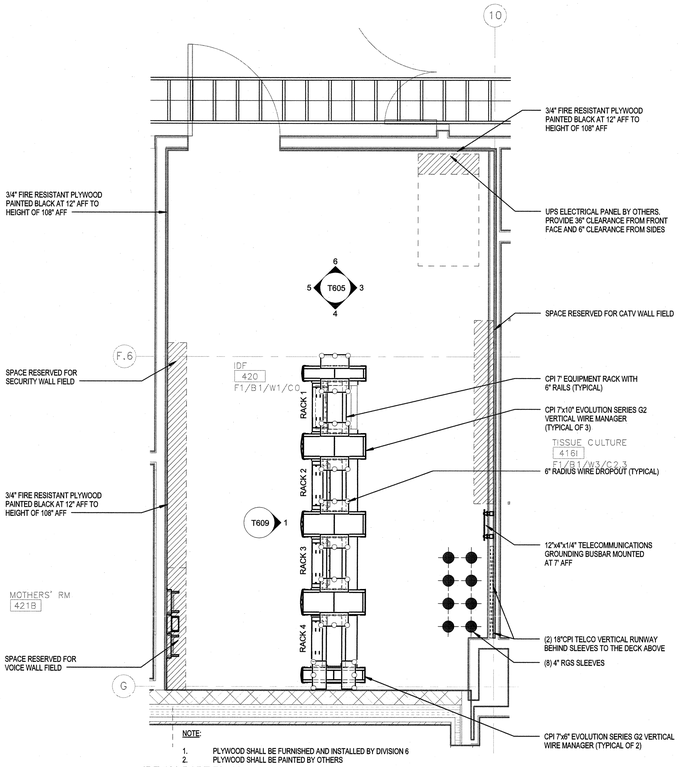
Drawing Title:

COMMUNICATIONS PART PLANS AND ELEVATIONS

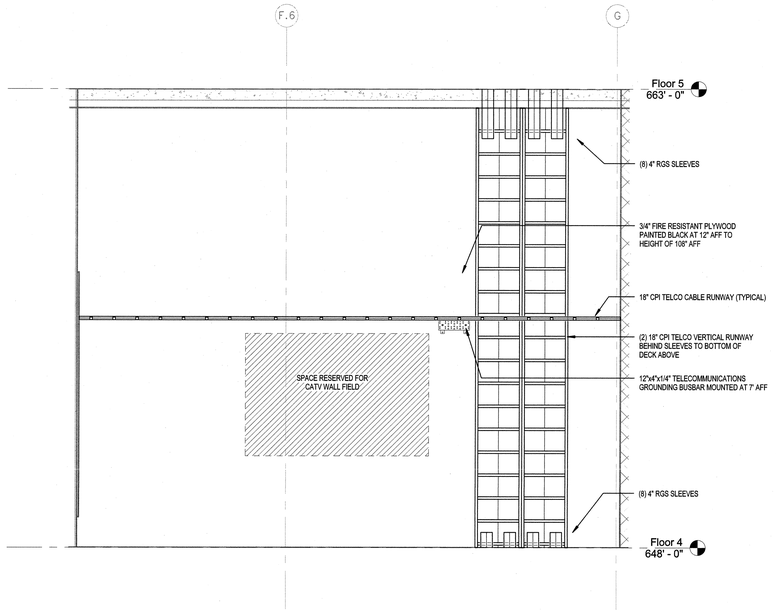
PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/2" = 1'-0"

T604

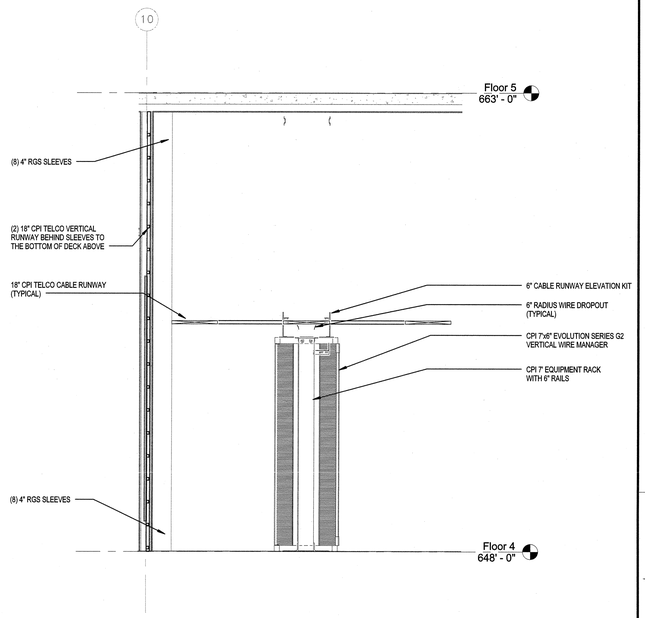
CONFORMED SET 05/29/2015



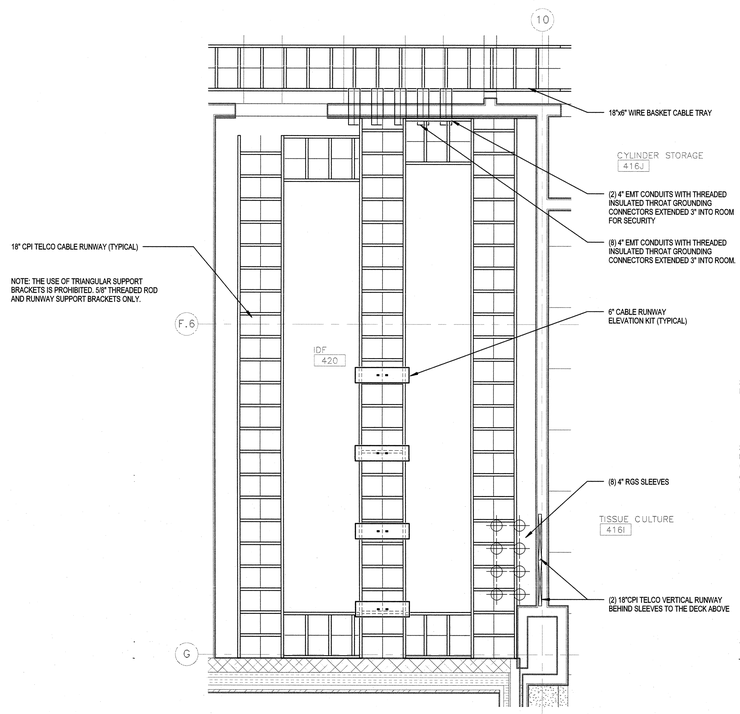
1 IDF 420 PART PLAN
1/2" = 1'-0"



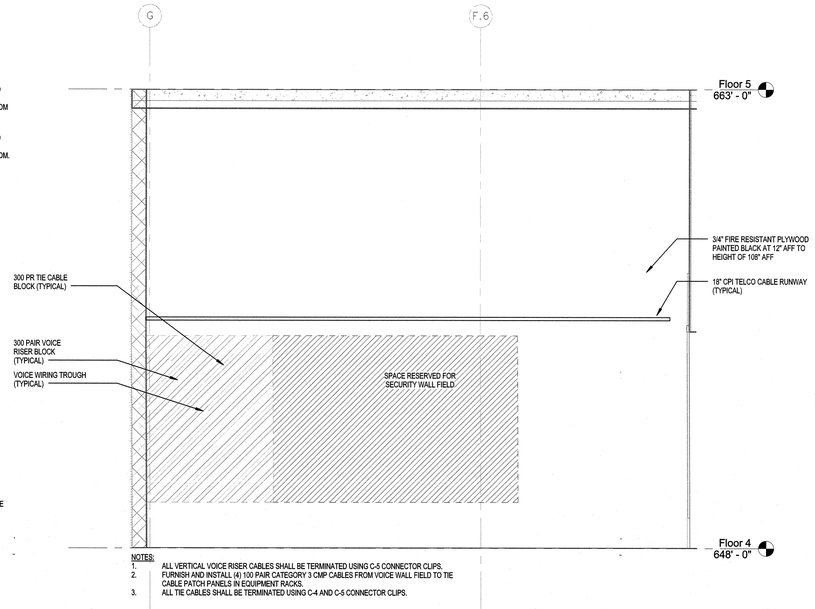
3 IDF 420 EAST WALL ELEVATION
1/2" = 1'-0"



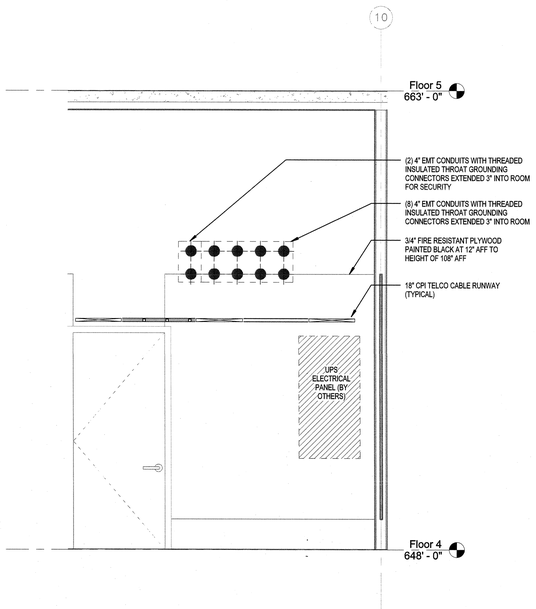
4 IDF 420 SOUTH WALL ELEVATION
1/2" = 1'-0"



2 IDF 420 CEILING PLAN
1/2" = 1'-0"



5 IDF 420 WEST WALL ELEVATION
1/2" = 1'-0"



6 IDF 420 NORTH WALL ELEVATION
1/2" = 1'-0"

UNIVERSITY OF CONNECTICUT

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ISSUE/REVISION:

NO.	DATE	COMMENTS

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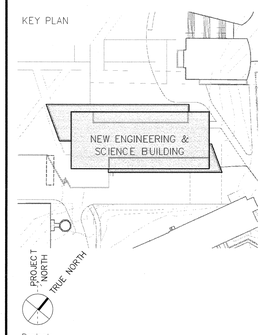
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

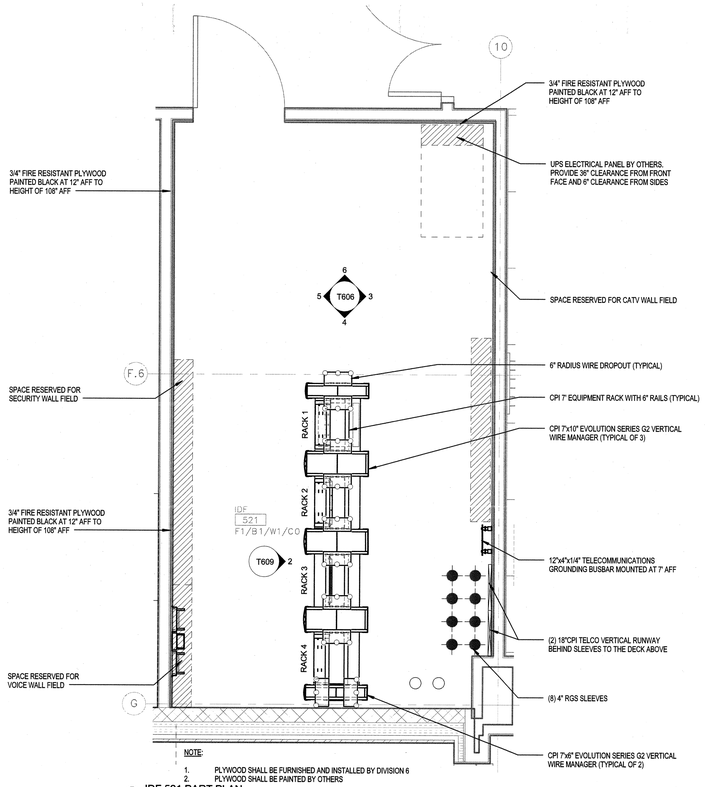
Drawing Title:

COMMUNICATIONS PART PLANS AND ELEVATIONS

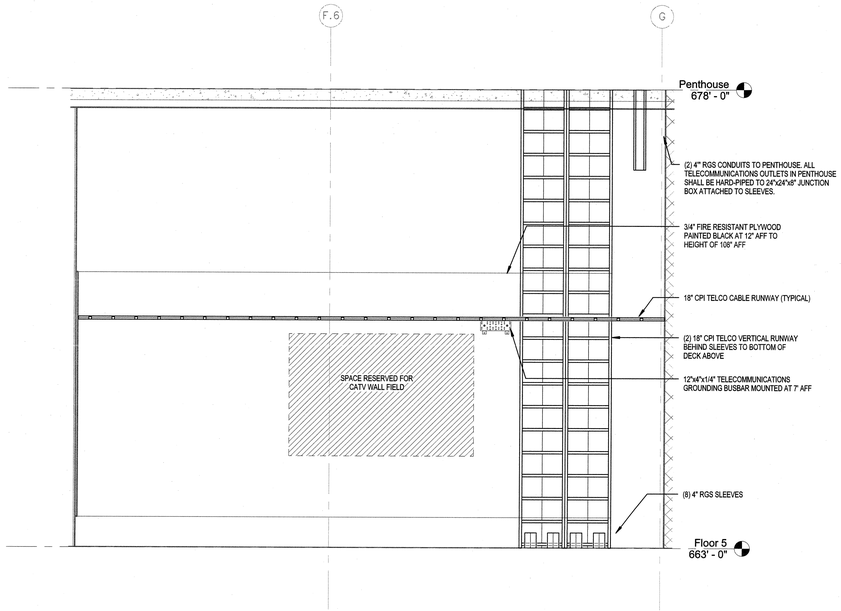
PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/2" = 1'-0"

CONFORMED SET: 05/29/2015

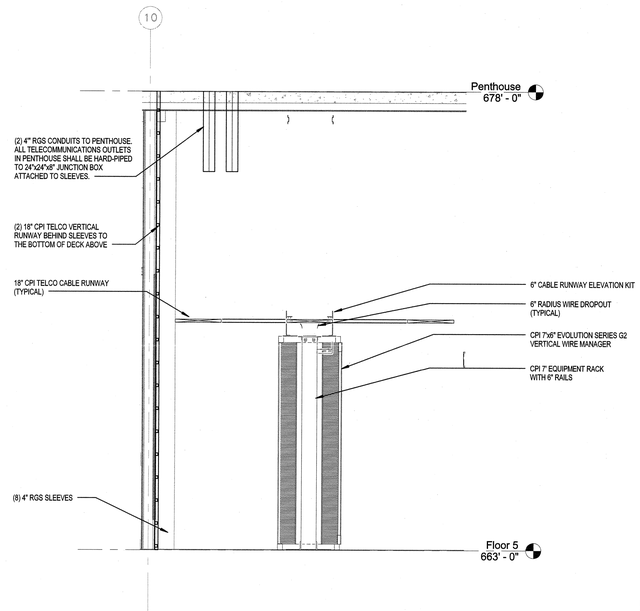
T605



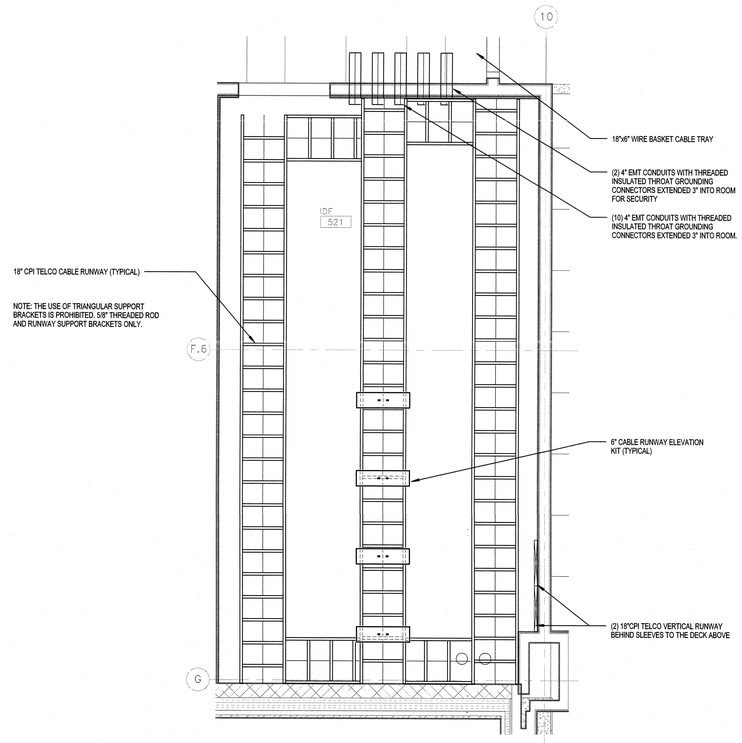
1 IDF 521 PART PLAN
1/2" = 1'-0"



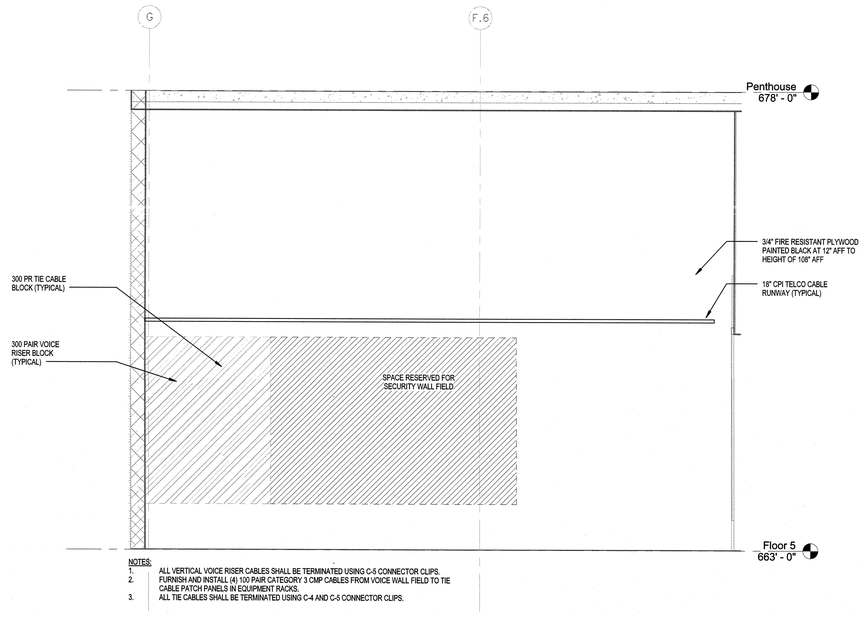
3 IDF 521 EAST WALL ELEVATION
1/2" = 1'-0"



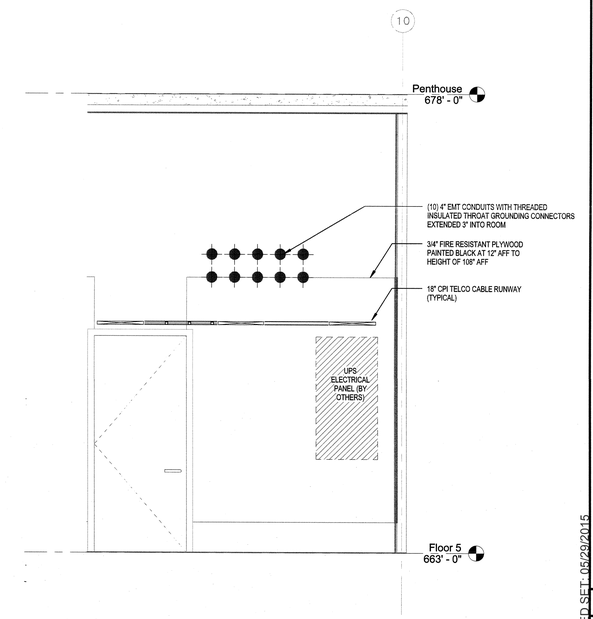
4 IDF 521 SOUTH WALL ELEVATION
1/2" = 1'-0"



2 IDF 521 CEILING PLAN
1/2" = 1'-0"



5 IDF 521 WEST WALL ELEVATION
1/2" = 1'-0"



6 IDF 521 NORTH WALL ELEVATION
1/2" = 1'-0"

UNIVERSITY OF CONNECTICUT

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ISSUE/REVISION:

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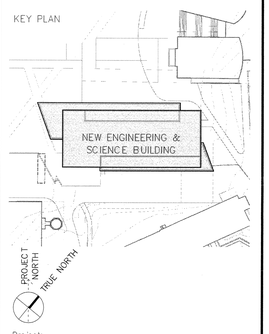
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

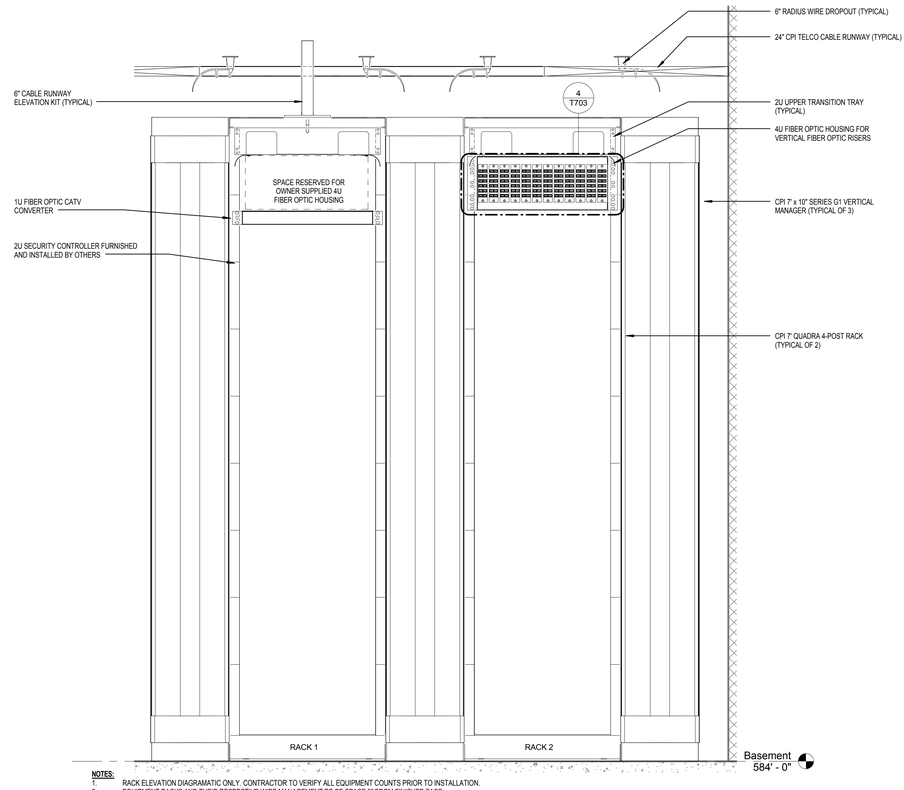
Drawing Title:

COMMUNICATIONS PART PLANS AND ELEVATIONS

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/2" = 1'-0"

T606

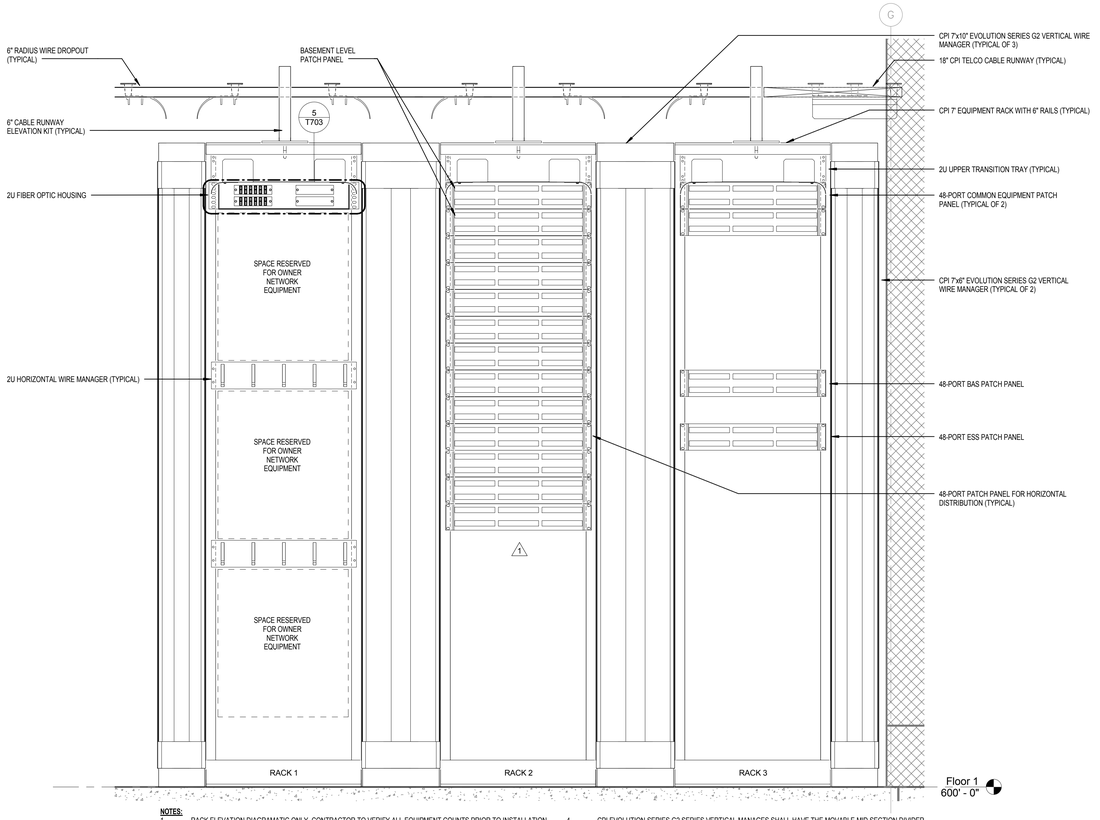
CONFORMED SET 05/29/2015



NOTES:

1. RACK ELEVATION DIAGRAMATIC ONLY. CONTRACTOR TO VERIFY ALL EQUIPMENT COUNTS PRIOR TO INSTALLATION.
2. EQUIPMENT RACKS AND THEIR RESPECTIVE WIRE MANAGEMENT TO BE SPACE 3" FROM FINISHED FACE.
3. CONTRACTOR TO PROVIDE ENGRAVED PHENOLIC TAGS ABOVE EACH RACK ON THE CABLE RUNWAY. COORDINATE WITH UCONN UITS FOR FURTHER INFORMATION.
4. CONTRACTOR TO PROVIDE (1) VERTICAL GROUND BAR ON ONE OF THE REAR RAILS OF EACH EQUIPMENT RACK.
5. CONTRACTOR TO INSTALL (2) OWNER PROVIDED VERTICAL PDU'S AND PLUG IN BEHIND RACK #1.

1 ENTRANCE FACILITY B04D RACK ELEVATION
1 1/2" = 1'-0"



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3. CONTRACTOR TO PROVIDE ENGRAVED PHENOLIC TAGS ABOVE EACH RACK ON THE CABLE RUNWAY. COORDINATE WITH UCONN UITS FOR FUTURE INFORMATION.
4. CPI EVOLUTION SERIES G2 SERIES VERTICAL MANAGES SHALL HAVE THE MOVABLE MID SECTION DIVIDER SET AT 50/50 (TYPICAL ALL VERTICAL MANAGERS)
5. CONTRACTOR TO INSTALL (2) OWNER PROVIDED VERTICAL PDU'S AND PLUG IN BEHIND RACK #1.
6. CONTRACTOR TO "RACK AND STACK" (3) OWNER PROVIDED CISCO 4500 SERIES NETWORK SWITCHES.

2 IDF 116A RACK ELEVATION
1 1/2" = 1'-0"

UNIVERSITY OF CONNECTICUT

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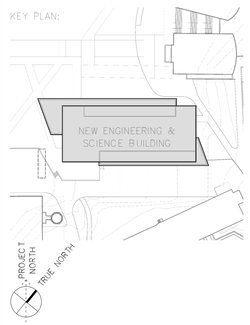
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

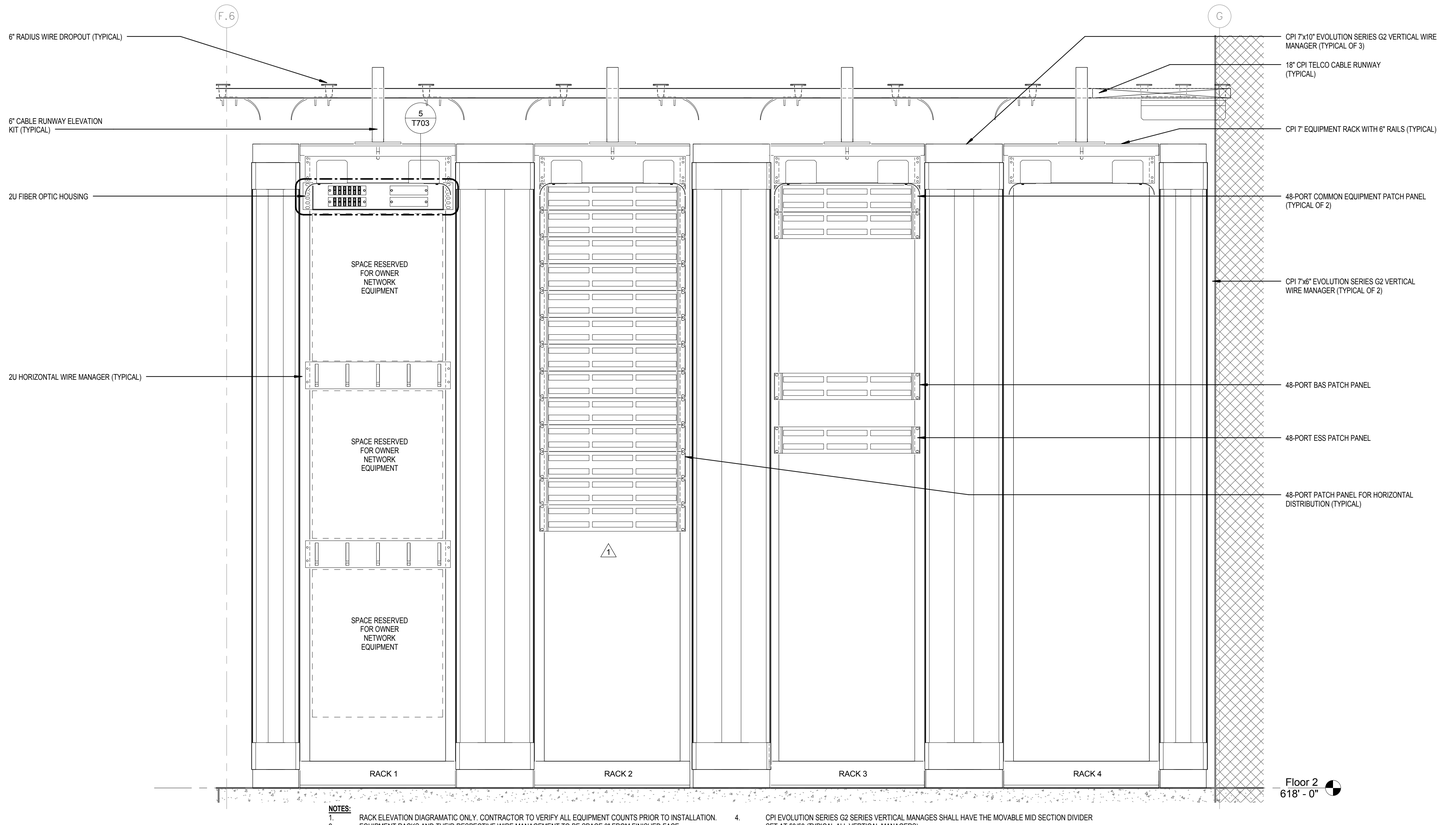
DRAWING TITLE:

COMMUNICATIONS RACK ELEVATIONS

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1 1/2" = 1'-0"

T607

CONFORMED SET: 05/29/2015



NOTES:

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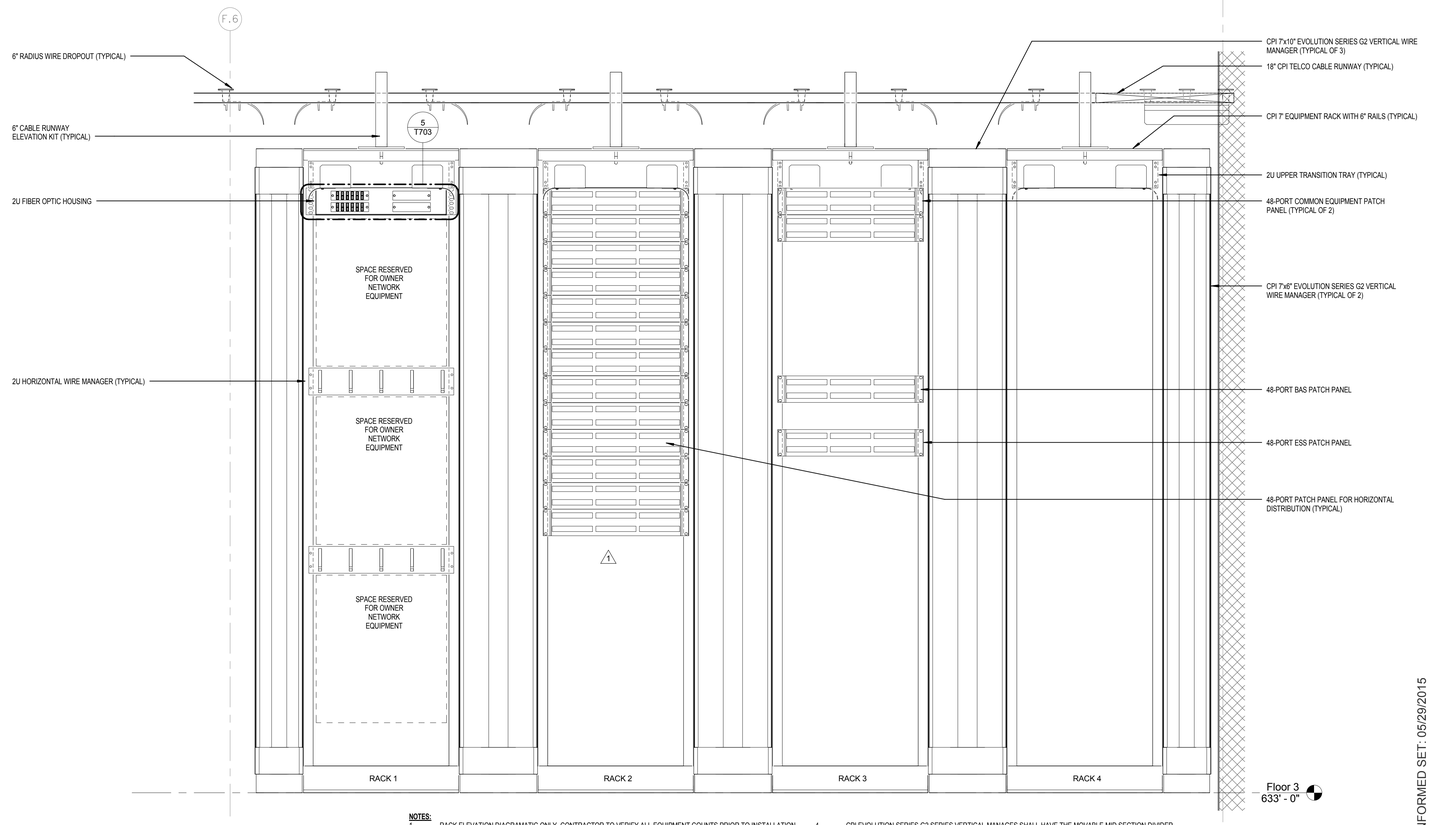
3. CONTRACTOR TO PROVIDE ENGRAVED PHENOLIC TAGS ABOVE EACH RACK ON THE CABLE RUNWAY. COORDINATE WITH UCONN UITS FOR FUTURE INFORMATION.
4. CPI EVOLUTION SERIES G2 SERIES VERTICAL MANAGES SHALL HAVE THE MOVABLE MID SECTION DIVIDER SET AT 50/50 (TYPICAL ALL VERTICAL MANAGERS)
5. CONTRACTOR TO INSTALL (2) OWNER PROVIDED VERTICAL PDU'S AND PLUG IN BEHIND RACK #1.
6. CONTRACTOR TO "RACK AND STACK" (3) OWNER PROVIDED CISCO 4500 SERIES NETWORK SWITCHES.

1 IDF 220 RACK ELEVATION
1 1/2" = 1'-0"



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6. CONTRACTOR TO "RACK AND STACK" (3) OWNER PROVIDED CISCO 4500 SERIES NETWORK SWITCHES.

2 IDF 320 RACK ELEVATION
1 1/2" = 1'-0"

UNIVERSITY OF CONNECTICUT

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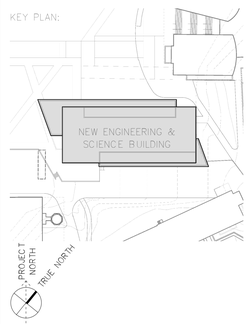
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

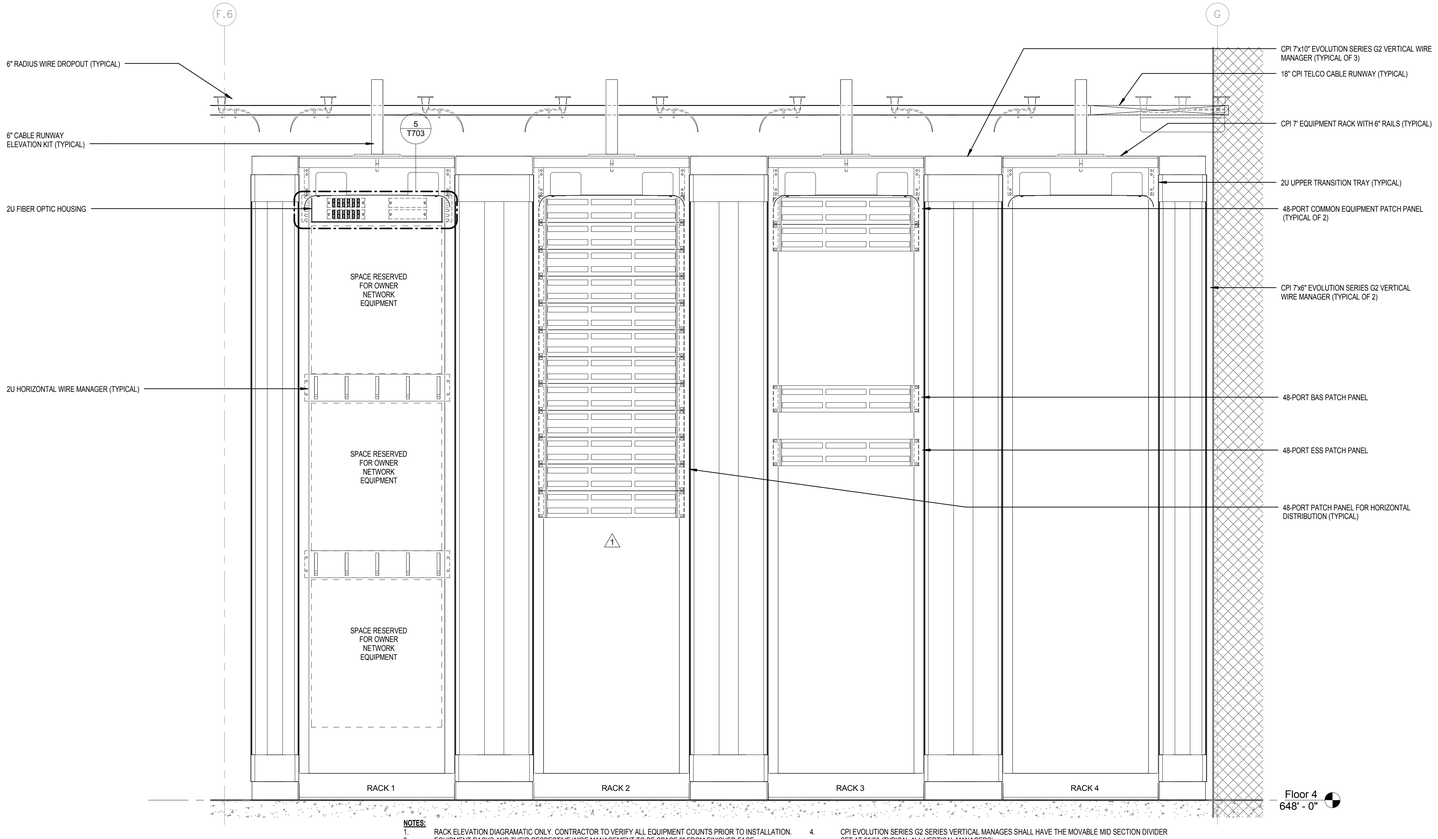
DRAWING TITLE:

COMMUNICATIONS RACK ELEVATIONS

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1 1/2" = 1'-0"

T608

CONFORMED SET: 05/29/2015



NOTES:

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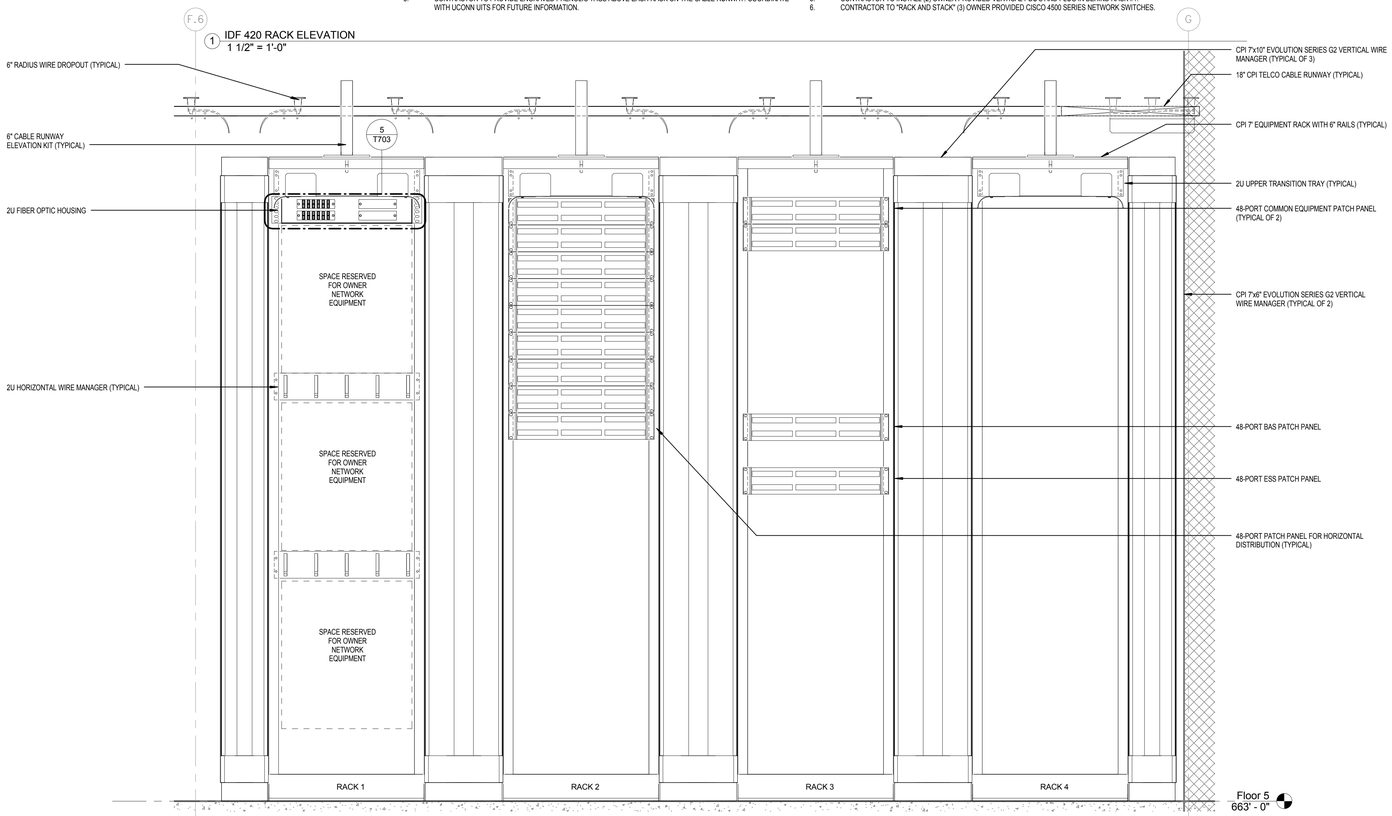
5. CONTRACTOR TO INSTALL (2) OWNER PROVIDED VERTICAL PDU'S AND PLUG IN BEHIND RACK #1.
6. CONTRACTOR TO "RACK AND STACK" (3) OWNER PROVIDED CISCO 4500 SERIES NETWORK SWITCHES.

1 IDF 420 RACK ELEVATION
1 1/2" = 1'-0"



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6. CONTRACTOR TO "RACK AND STACK" (3) OWNER PROVIDED CISCO 4500 SERIES NETWORK SWITCHES.

2 IDF 521 RACK ELEVATION
1 1/2" = 1'-0"

UNIVERSITY OF CONNECTICUT

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ISSUE/REVISION:

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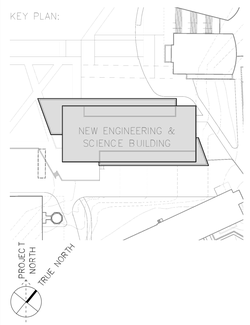
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

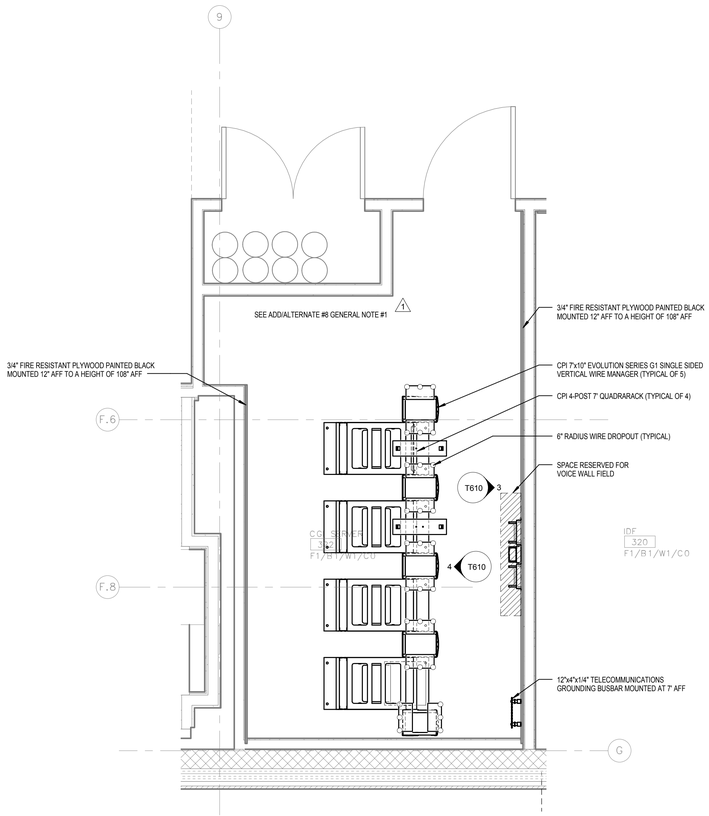
DRAWING TITLE:

COMMUNICATIONS RACK ELEVATIONS

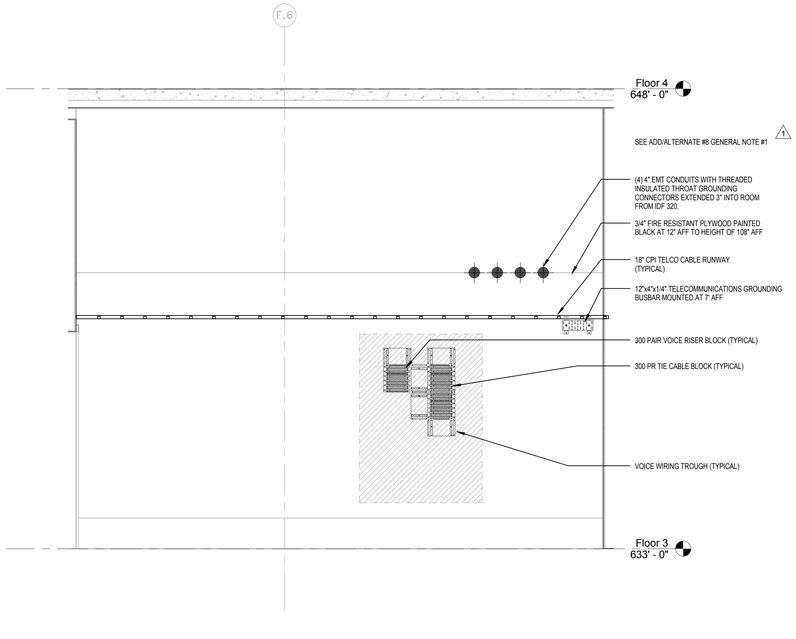
PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1 1/2" = 1'-0"

T609

CONFORMED SET: 05/29/2015

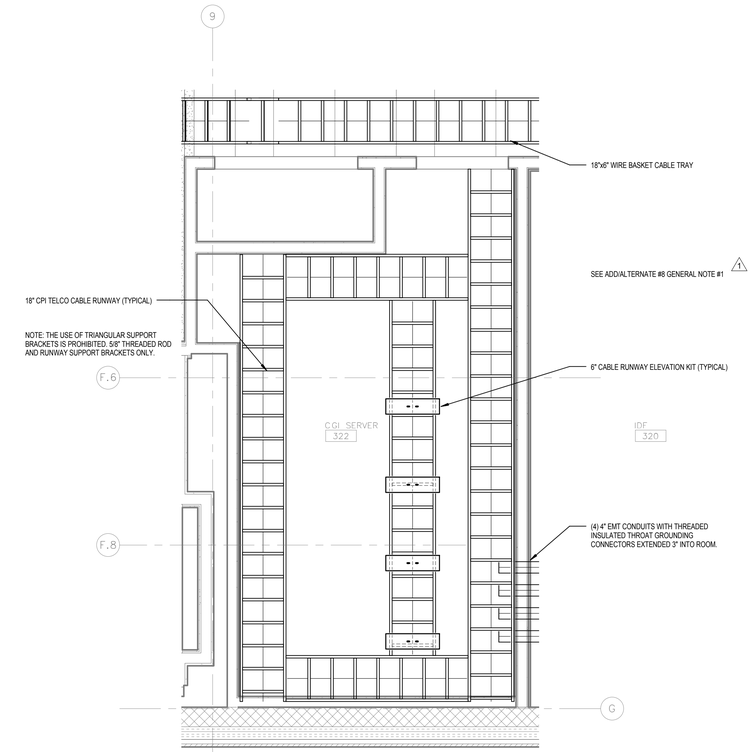


1 CGI SERVER 322 PART PLAN
1/2" = 1'-0"

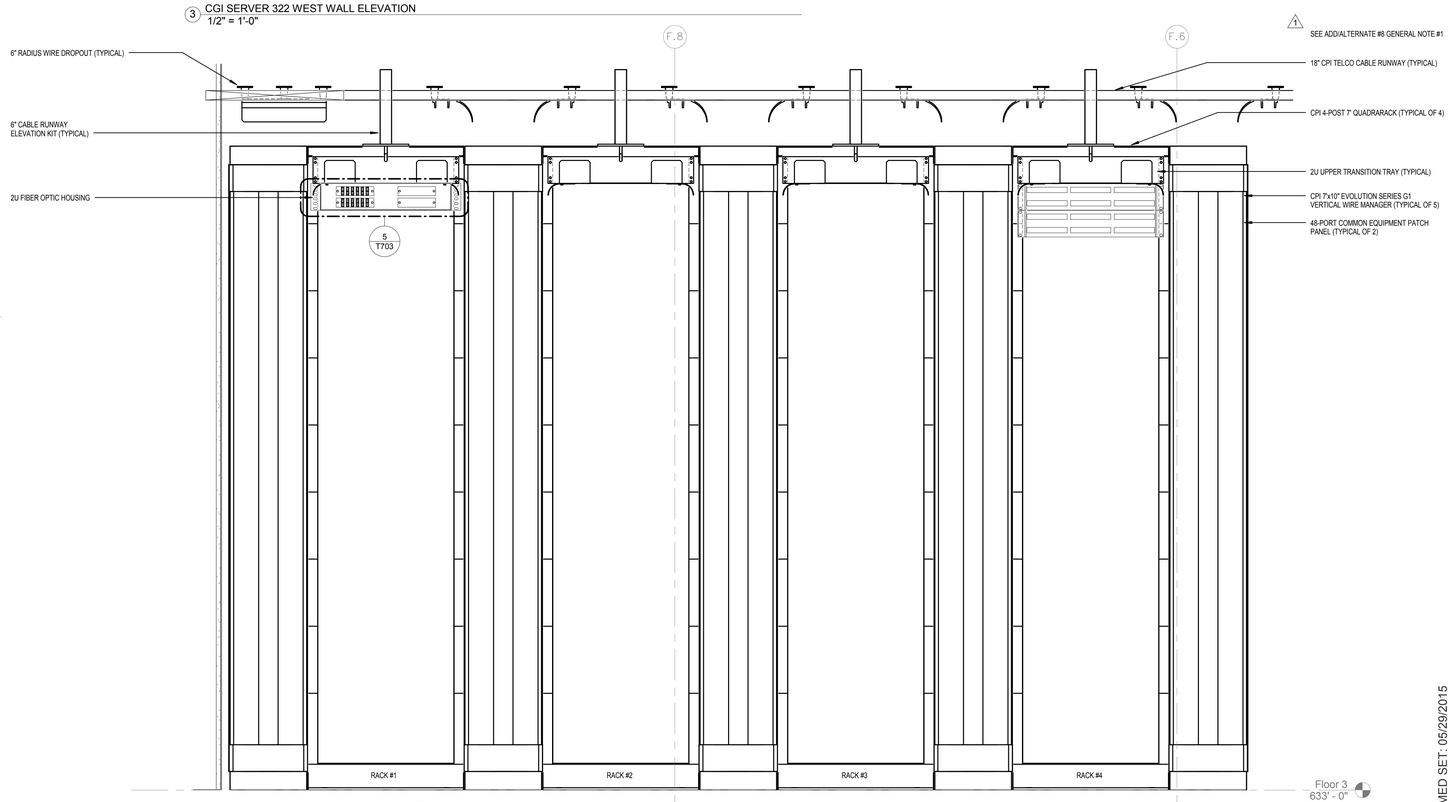


ADD/ALTERNATE #8 GENERAL NOTE:

1. PLEASE REFER TO SECTION 01-2300 ALTERNATE #8. THE FIT-OUT OUT OF CGI SERVER ROOM SHALL BE INCLUDED IN BASE BID PROJECT. THE ALTERNATE IS FIT-OUT ROOM 322 TO OFFICE SPACE WITH (2) STANDARD 3-PORT TEL/DATA OUTLETS. SEE DRAWING A9.50 FOR FURTHER INFORMATION.



2 CGI SERVER 322 CEILING PLAN
1/2" = 1'-0"



NOTES:
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4. CONTRACTOR TO PROVIDE (1) VERTICAL GROUND BAR ON ONE OF THE REAR RAILS OF EACH EQUIPMENT RACK.
5. CONTRACTOR TO INSTALL (2) OWNER PROVIDED VERTICAL PDU'S AND PLUG IN BEHIND RACK #1.

3 CGI SERVER 322 WEST WALL ELEVATION
1/2" = 1'-0"

4 CGI SERVER 322 RACK ELEVATION
1 1/2" = 1'-0"

UNIVERSITY OF CONNECTICUT

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Severud Associates
469 Seventh Avenue, Suite 900
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212 986 3700

SITE/CIVIL ENGINEER:
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Glastonbury, Connecticut 06033
860 633 8341

LANDSCAPE ARCHITECTS:
DIRTWORKS, PC
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New York, New York 10003
212 529 2263

LEED CONSULTANT:
Steven Winter Associates, Inc.
61 Washington Street
Norwalk, Connecticut 06854
203 857 0200

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	2015-03-20	BID ADDENDUM 01

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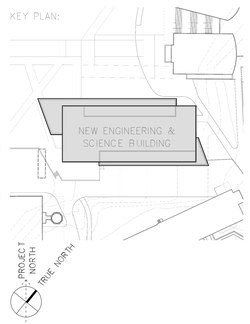
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

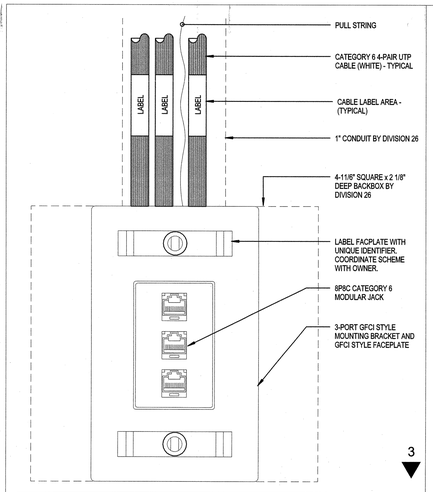
DRAWING TITLE:

COMMUNICATIONS PART PLANS AND ELEVATIONS

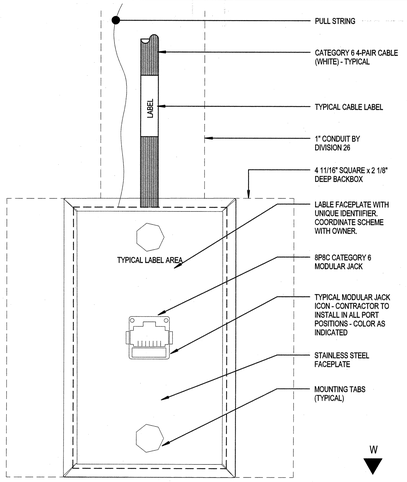
CONFORMED SET: 05/29/2015

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

T610



1 STANDARD 3-PORT OUTLET FACEPLATE DETAIL
N.T.S.



2 WALL PHONE FACEPLATE DETAIL
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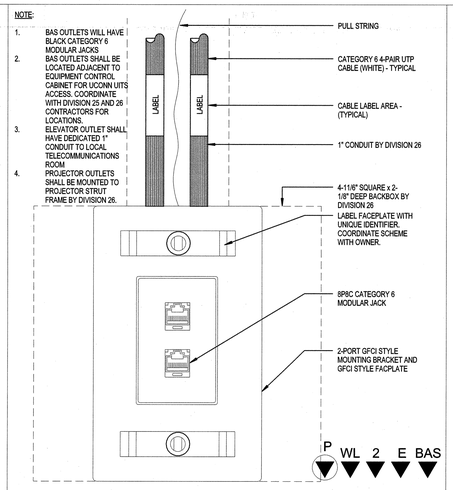

3 STANDARD 2-PORT OUTLET FACEPLATE DETAIL
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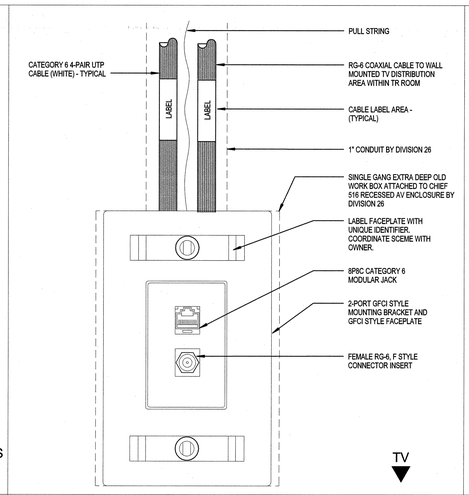

4 TV OUTLET FACEPLATE DETAIL
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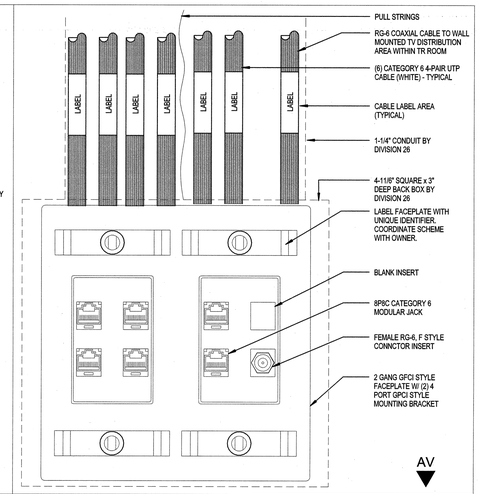

5 8-PORT A/V OUTLET FACEPLATE DETAIL
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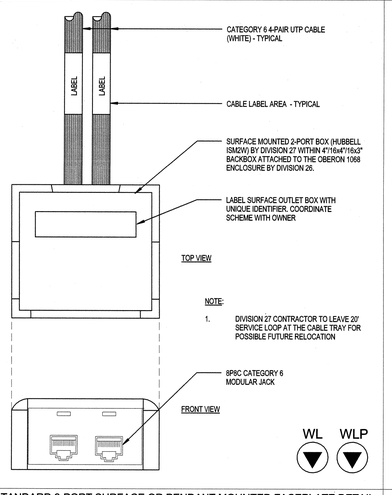

6 STANDARD 2-PORT SURFACE OR PENDANT MOUNTED FACEPLATE DETAIL
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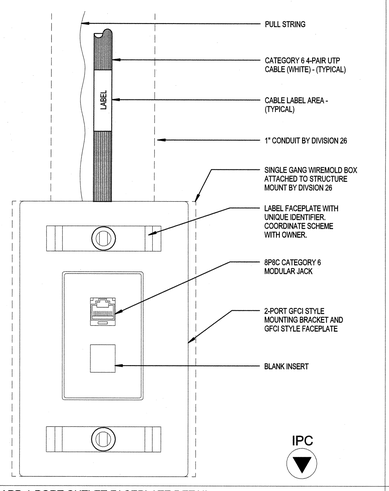

7 STANDARD 1-PORT OUTLET FACEPLATE DETAIL
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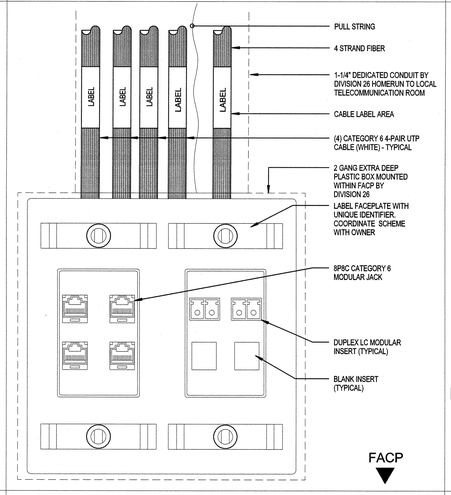

8 FIRE ALARM CONTROL PANEL OUTLET DETAIL
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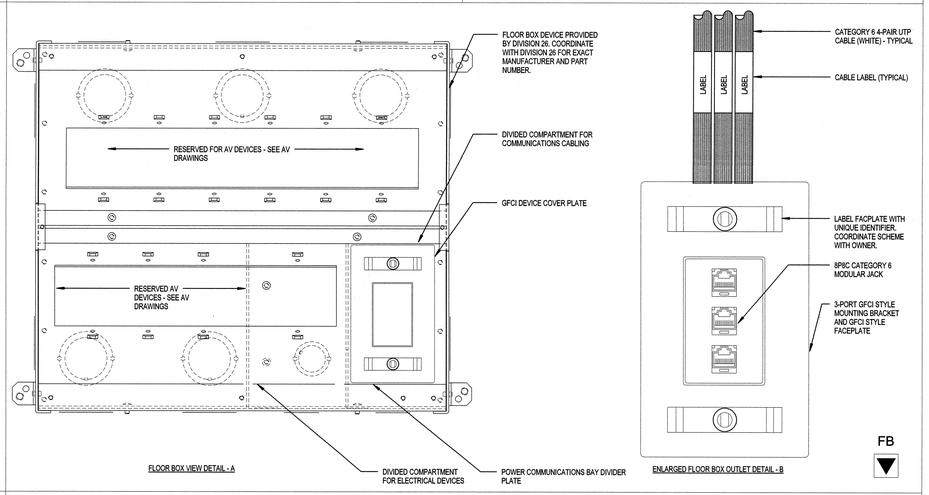

9 STANDARD 3-PORT FLOOR BOX OUTLET
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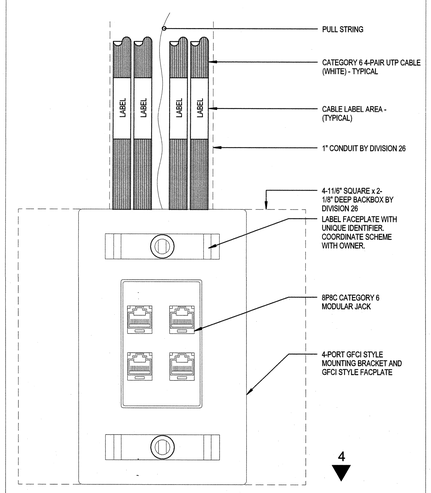

10 STANDARD 4-PORT OUTLET FACEPLATE DETAIL
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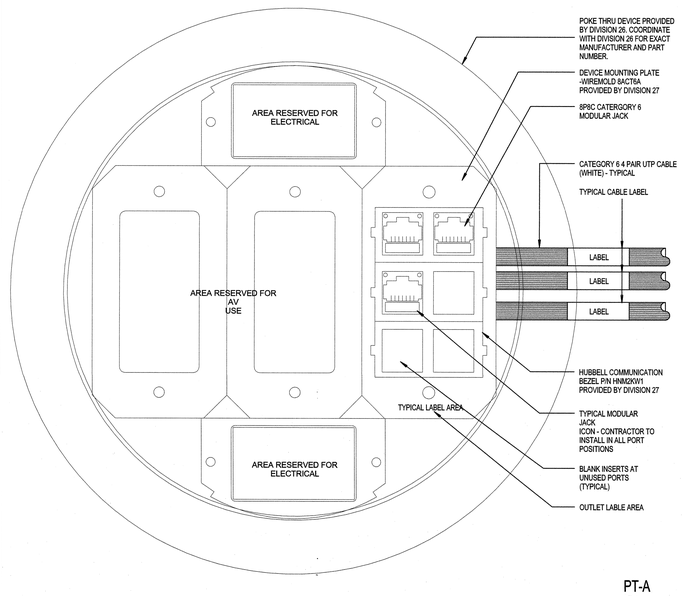

11 STANDARD 6-PORT 8" POKE-THRU OUTLET
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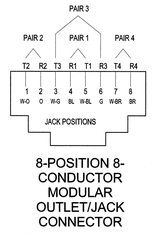

8-POSITION 8-CONDUCTOR MODULAR OUTLET/JACK CONNECTOR

12 T568B WIRING SCHEME
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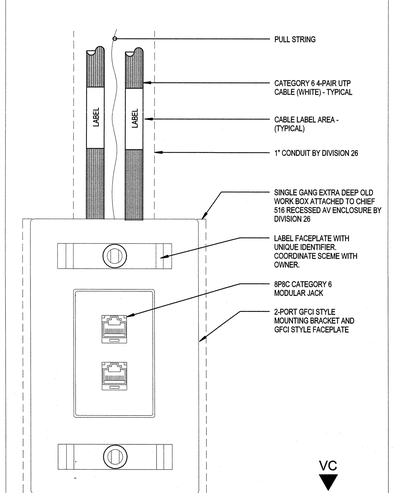

13 VIDEO CONFERENCING OUTLET FACEPLATE DETAIL
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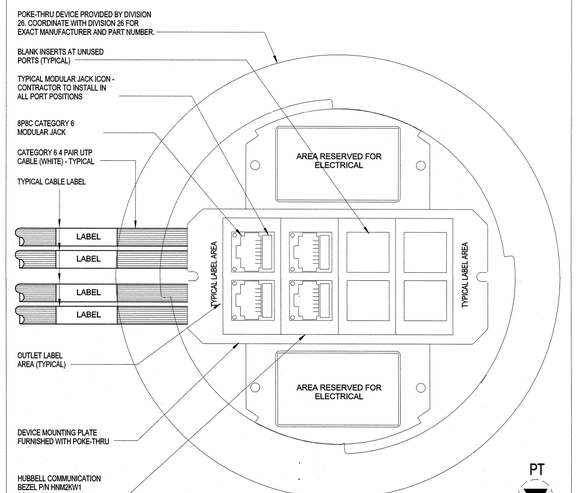

14 STANDARD 8 PORT 6" POKE THRU OUTLET
N.T.S.

UNIVERSITY OF CONNECTICUT

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ISSUE/REVISION:

NO.	DATE	COMMENTS

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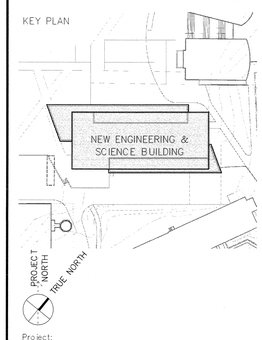
KEY PLAN



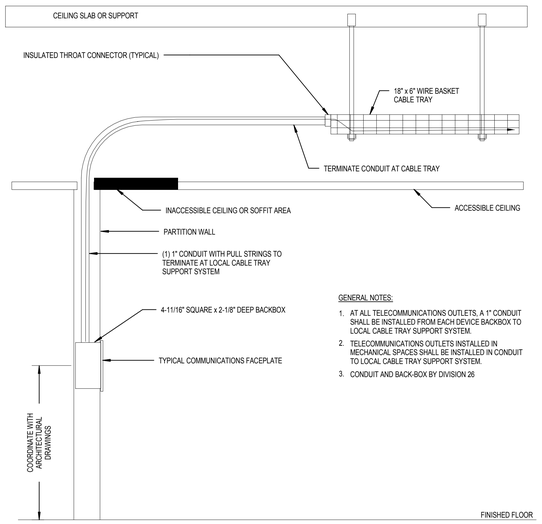
Project:
NEW ENGINEERING AND SCIENCE BUILDING

Drawing Title:
COMMUNICATIONS DETAILS

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: N.T.S.

T700

CONFORMED SET: 05/29/2015



1 WALL DEVICE DETAIL
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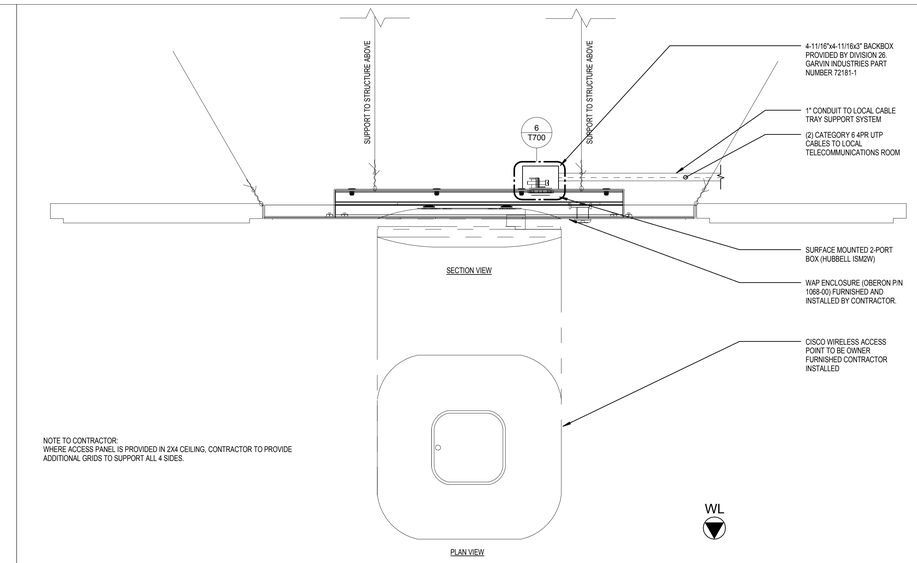

2 CEILING MOUNTED WIRELESS ACCESS POINT DETAIL
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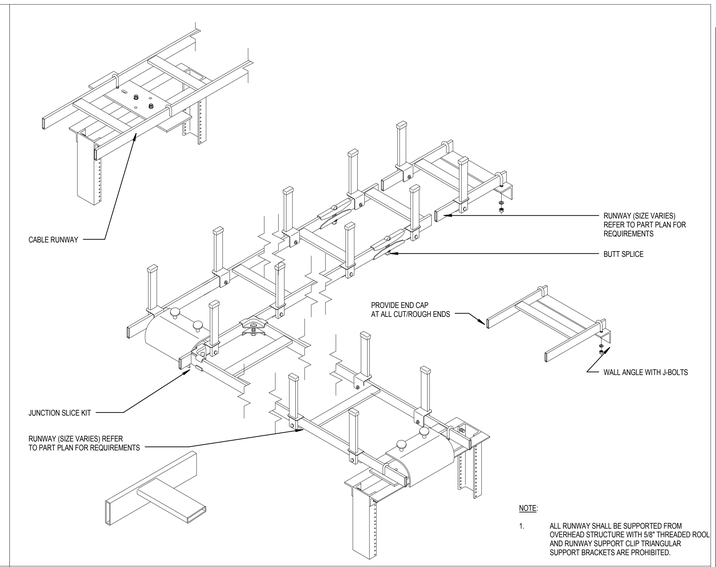

3 OVERHEAD RUNWAY SYSTEM DETAILS
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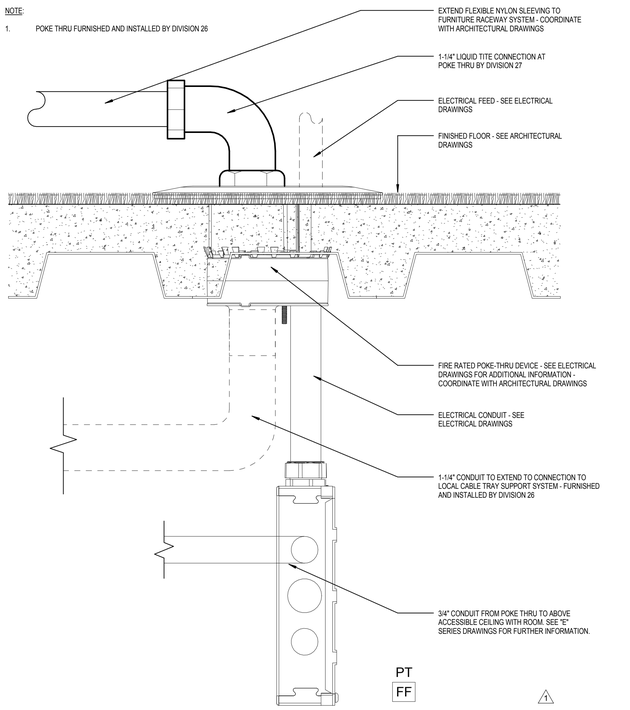

4 FLOOR MOUNT FURNITURE FEED DETAIL
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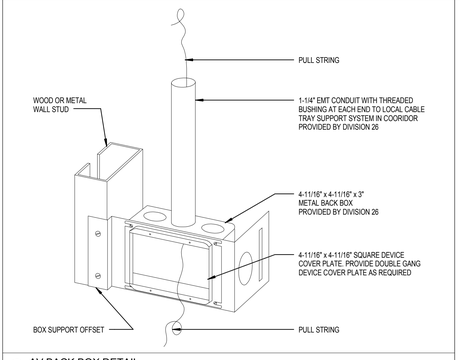

5 AV BACK BOX DETAIL
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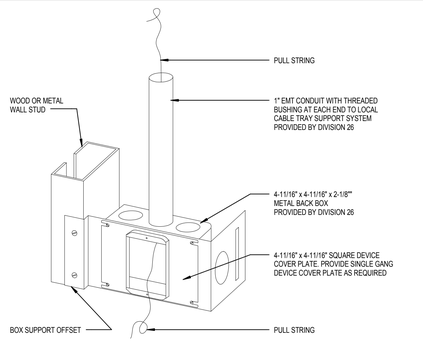

6 TYPICAL BACK BOX DETAIL
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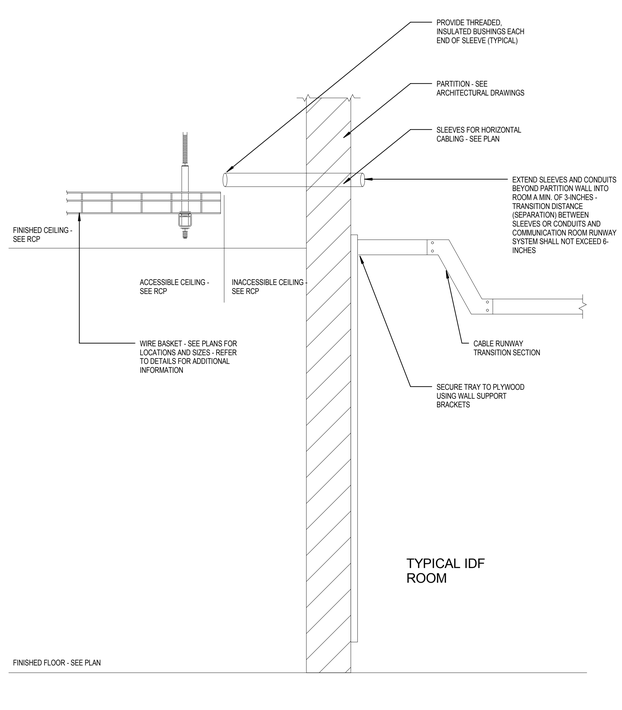

7 TYP. CABLE TRAY TRANSITION
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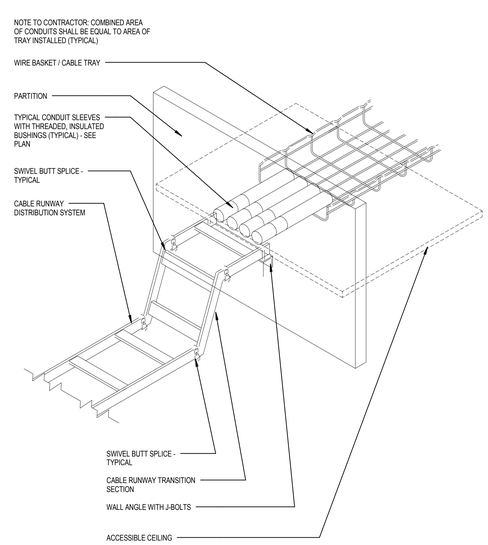

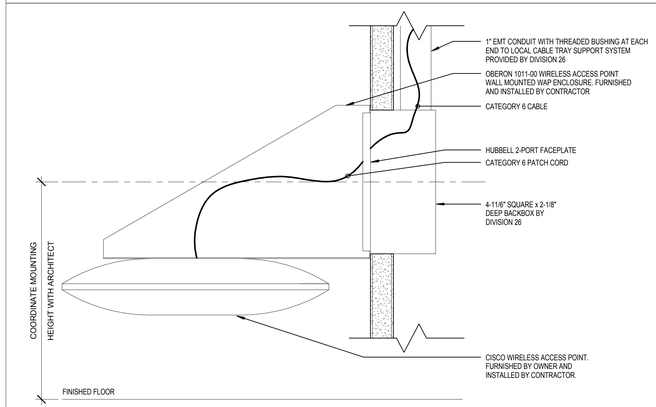

8 WALL MOUNTED ACCESS POINT DETAIL
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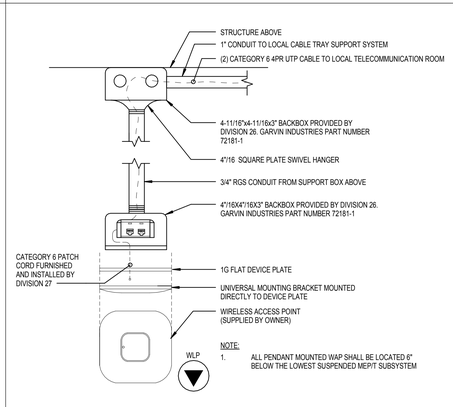

9 PENDANT MOUNTED WIRELESS ACCESS POINT DETAIL
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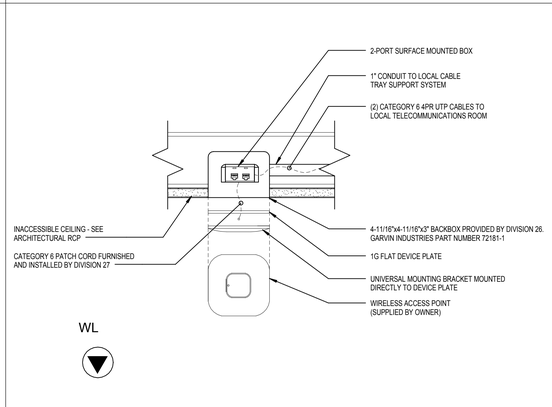

10 HARD CEILING MOUNTED WIRELESS ACCESS POINT DETAIL
3" = 1'-0"

UNIVERSITY OF CONNECTICUT

ARCHITECT:
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61 Washington Street
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ISSUE/REVISION:		
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1	2015-03-20	BID ADDENDUM 01

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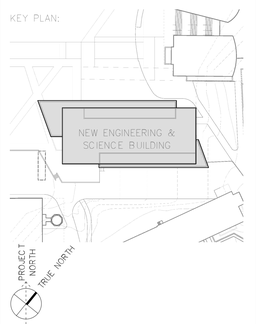
KEY PLAN:



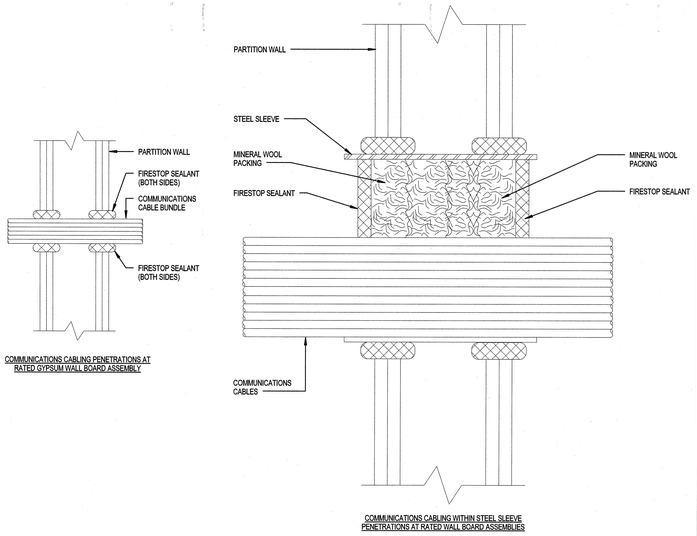
PROJECT:
NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:
COMMUNICATIONS DETAILS

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

T701

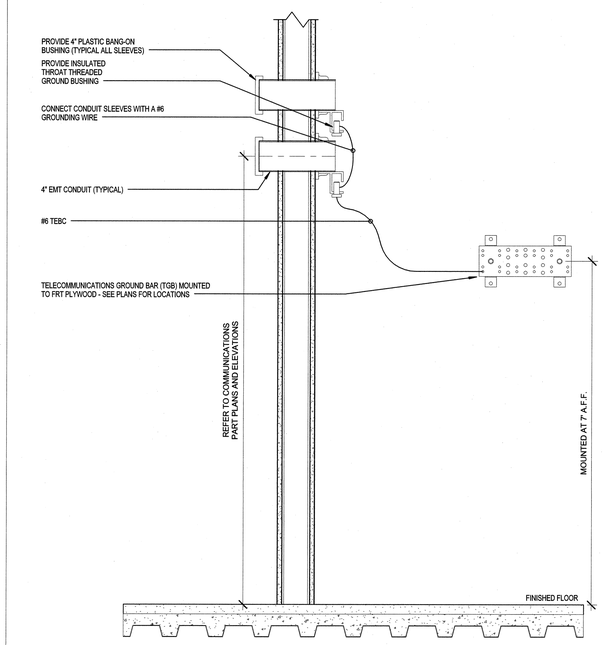
CONFORMED SET: 05/29/2015



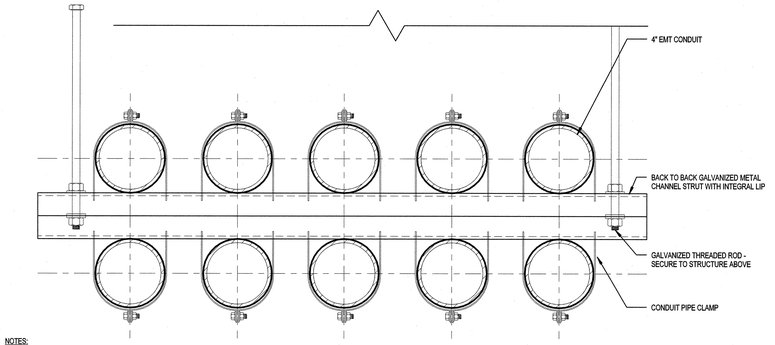
FIRE AND SMOKE PROOFING GENERAL NOTES

1. DETAILS ARE GENERAL IN NATURE AND ARE FOR REFERENCE ONLY. CONSULT UNDERWRITERS LABORATORIES, INC., "FIRE RESISTANCE DIRECTORY" FOR DETAILS.
2. ALL PENETRATIONS THROUGH FIRE OR SMOKE RATED WALLS AND FLOORS SHALL BE FIRESTOPPED WITH APPROVED METHODS TO REDUCE THE CHANCE OF SPREADING FIRE AND SMOKE.
3. USE ONLY AN ENGINEERED AND APPROVED SYSTEM TO FIRESTOP A PENETRATION. CONTACT AN APPROPRIATE FIRESTOP MANUFACTURER FOR ANY SITUATIONS THAT ARE NOT ADDRESSED BY THE MANUFACTURERS LISTED METHODS.
4. THROUGH PENETRATIONS MUST BE FIRESTOPPED SUCH THAT ALL PENETRATIONS RESTORE THE REQUIRED FIRE AND SMOKE RATING REQUIRED BY THE ARCHITECT.

1 CABLE/ CONDUIT PENETRATION WITH FIRESTOPPING
1" = 1'-0"



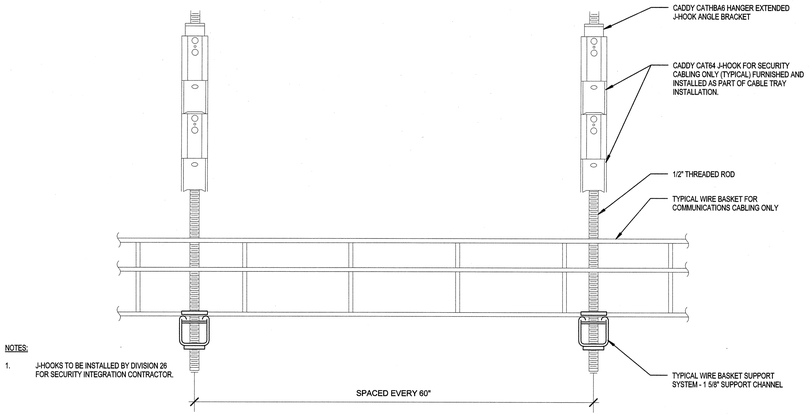
2 HORIZONTAL SLEEVE GROUNDING DIAGRAM
1 1/2" = 1'-0"



NOTES:

1. METAL CHANNEL STRUT SUPPORT LONGER THAN 36" SHALL BE INSTALLED WITH A CENTER SUPPORT ROD.
2. THREADED INSULATED GROUNDING BUSHING SHALL BE FURNISHED AND INSTALLED ON TELECOMMUNICATION ROOM SIDE AND GROUNDED TO TMGB OR TGB.
3. PLASTIC BANG BUSHING SHALL BE FURNISHED AND INSTALLED ON COORIDOR SIDE OF TELECOMMUNICATION ROOM.

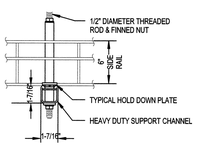
3 CONDUIT HORIZONTAL SLEEVE DETAIL FOR IDF'S
3" = 1'-0"



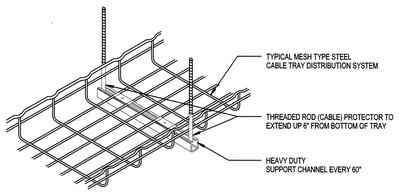
NOTES:

1. J-HOOKS TO BE INSTALLED BY DIVISION 26 FOR SECURITY INTEGRATION CONTRACTOR.

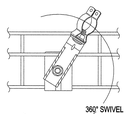
5 TYPICAL SECURITY CABLING J-HOOK SUPPORT DETAIL
NTS



ELEVATION A



ISOMETRIC VIEW



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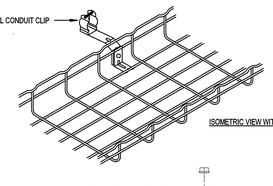
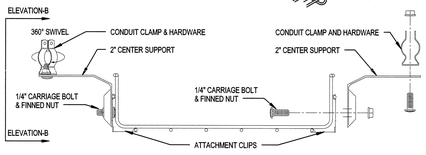
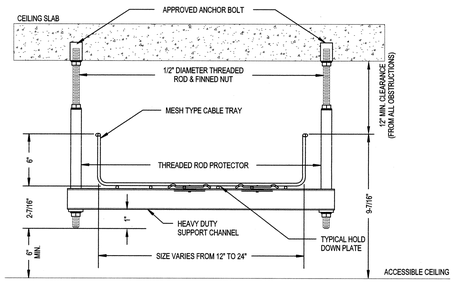
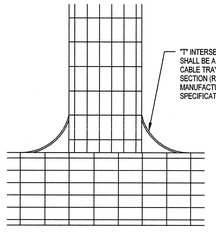


ISOMETRIC VIEW WITH CONDUIT CLIP

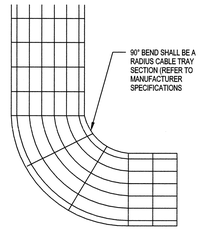




CABLE TRAY SUPPORT EVERY 60"



CABLE TRAY "T" SECTION



CABLE TRAY 90° SECTION

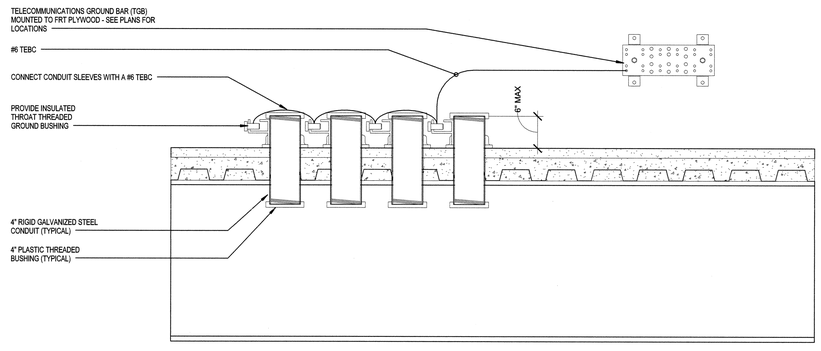
NOTES:

1. UL CLASSIFIED TRAY EQUIPMENT GROUNDING CONDUCTOR MUST BE MAINTAINED BY USE OF PROPER SPLICE CONNECTOR PER MANUFACTURER SPECIFICATION AND REQUIREMENTS.

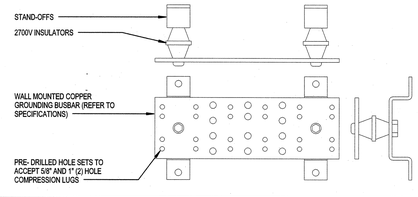
4 TYPICAL WIRE BASKET DETAILS
12" = 1'-0"

NOTE:

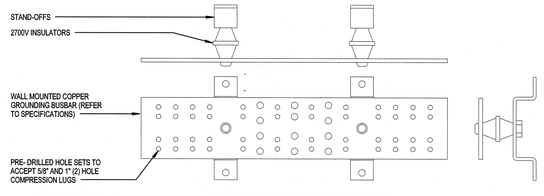
1. COORDINATE LOCATIONS WITH ARCHITECTURAL/STRUCTURAL DRAWINGS PRIOR TO INSTALLATION



6 VERTICAL SLEEVE GROUNDING DIAGRAM
1 1/2" = 1'-0"



7 TYPICAL TGB DETAIL
3" = 1'-0"



8 TYPICAL TMGB DETAIL
3" = 1'-0"

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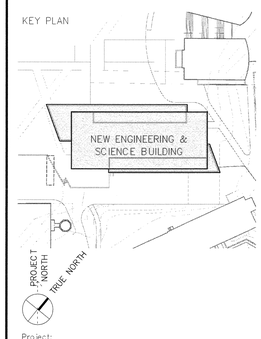
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

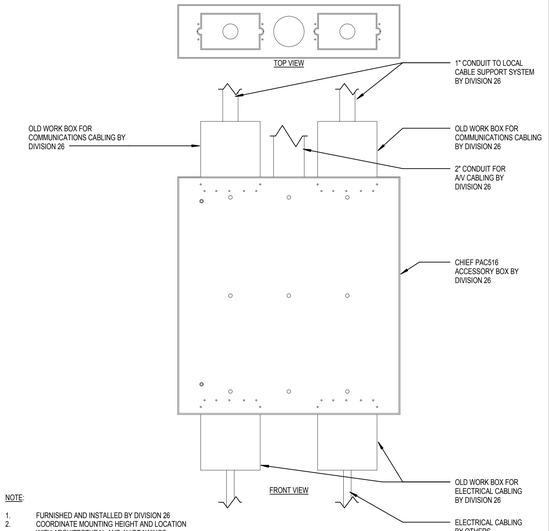
Drawing Title:

COMMUNICATIONS DETAILS

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As Indicated

T702

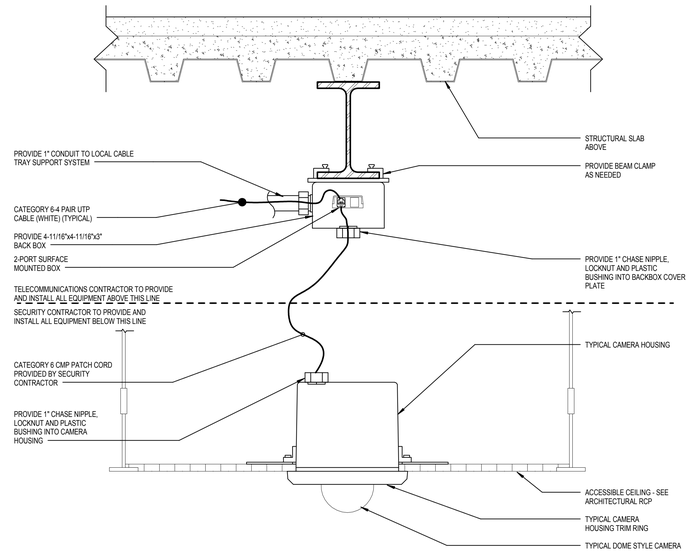
CONFORMED SET: 05/29/2015



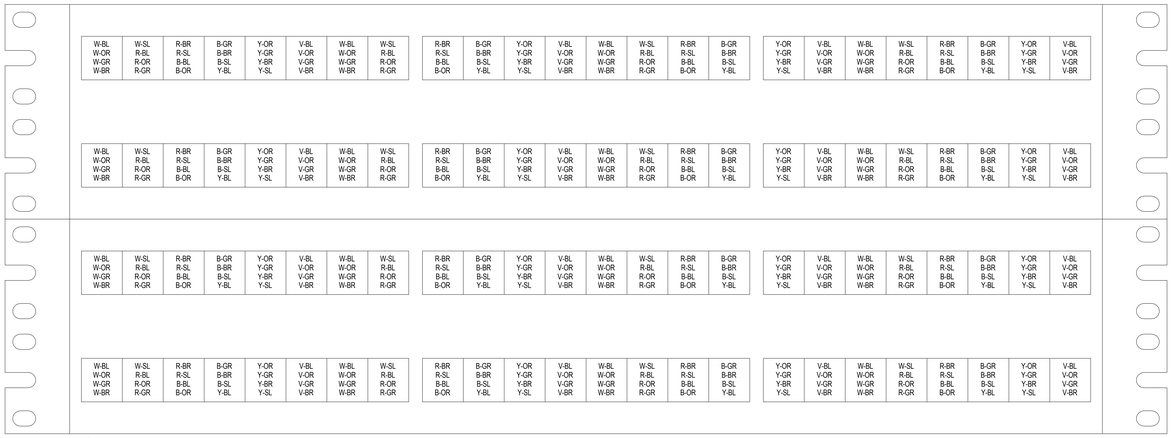
NOTE:

1. FURNISHED AND INSTALLED BY DIVISION 26
2. COORDINATE MOUNTING HEIGHT AND LOCATION WITH ARCHITECTURAL AND AV DRAWINGS

1 A/V CHIEF MANUFACTURING 516 IN-WALL BOX
N.T.S.



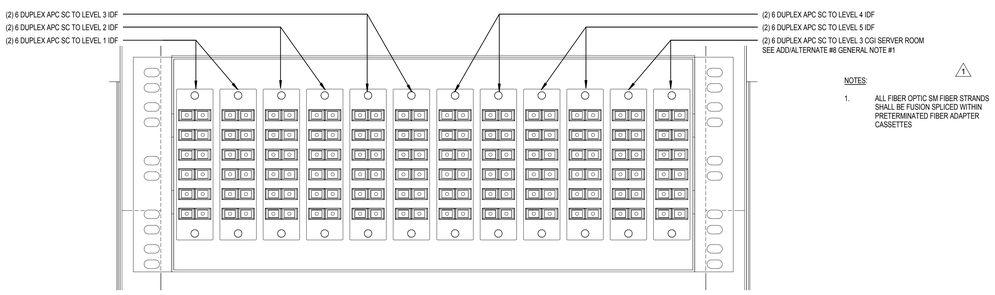
2 TYPICAL SECURITY CAMERA - RECESSED CEILING MOUNTED
3" = 1'-0"



NOTE:

1. WRAP THE FOLLOWING PAIR ON ALL BACKBONE CABLING: VIOLET/SLATE

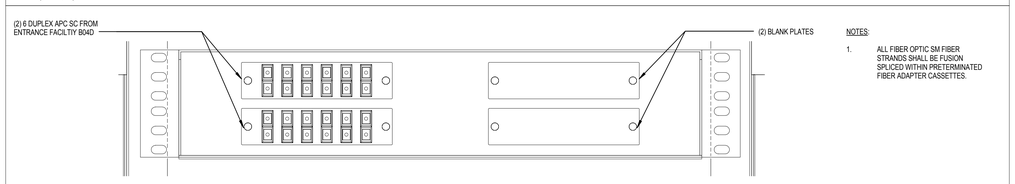
3 TYPICAL 400 PAIR TELCO PATCH PANEL DETAIL
12" = 1'-0"



NOTES:

1. ALL FIBER OPTIC SM FIBER STRANDS SHALL BE FUSION SPLICED WITHIN PRETERMINATED FIBER ADAPTER CASSETTES

4 ENTRANCE FACILITY B04D FIBER OPTIC HOUSING
6" = 1'-0"



NOTES:

1. ALL FIBER OPTIC SM FIBER STRANDS SHALL BE FUSION SPLICED WITHIN PRETERMINATED FIBER ADAPTER CASSETTES.

5 TYPICAL DATA CLOSET FIBER OPTIC HOUSING
6" = 1'-0"

ADD/ALTERNATE #8 GENERAL NOTE:

1. PLEASE REFER TO SECTION 01-2300 ALTERNATE #8. THE FIT-OUT OUT OF CGI SERVER ROOM SHALL BE INCLUDED IN BASE BID PROJECT. THE ALTERNATE IS FIT-OUT ROOM 322 TO OFFICE SPACE WITH (2) STANDARD 3-PORT TEL/DATA OUTLETS. SEE DRAWING A9.50 FOR FURTHER INFORMATION.

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1	2015-03-20	BID ADDENDUM 01

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KEY PLAN:

PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

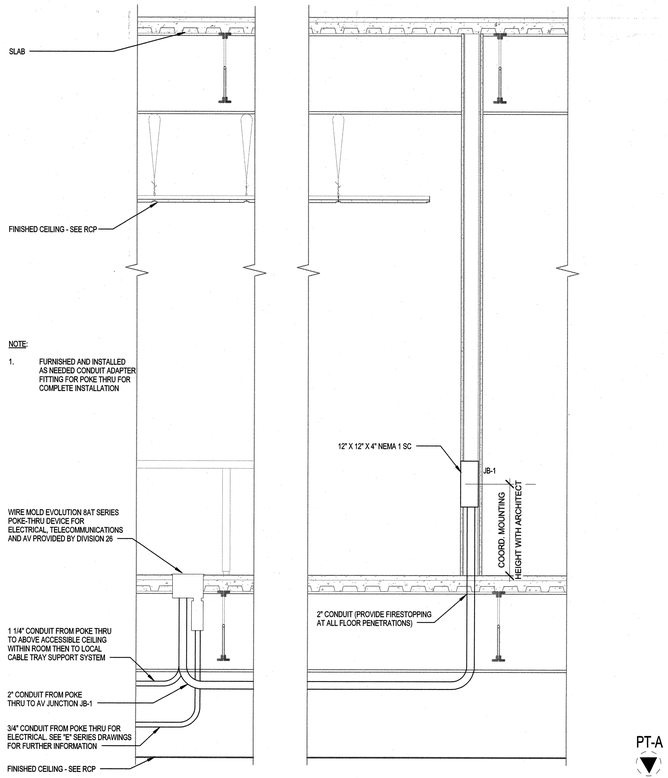
DRAWING TITLE:

COMMUNICATIONS DETAILS

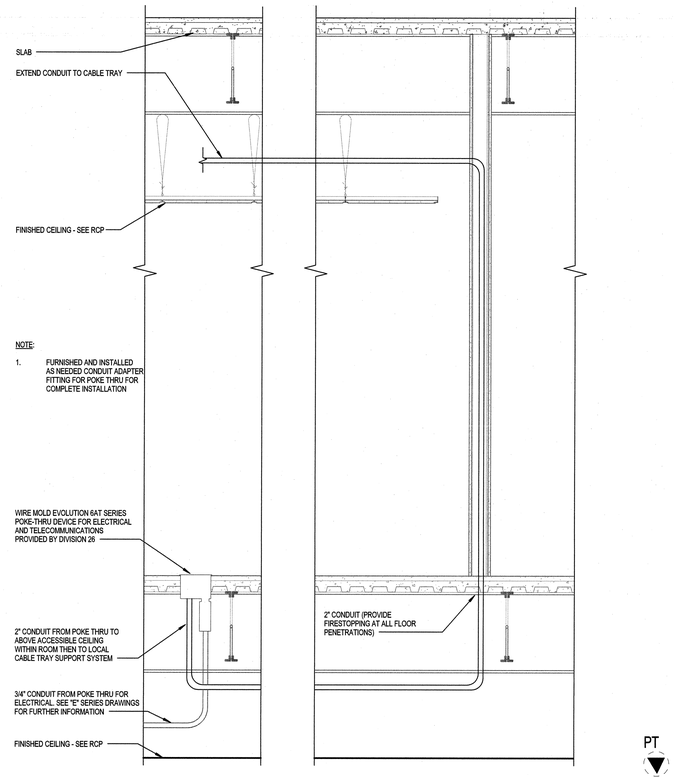
PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

T703

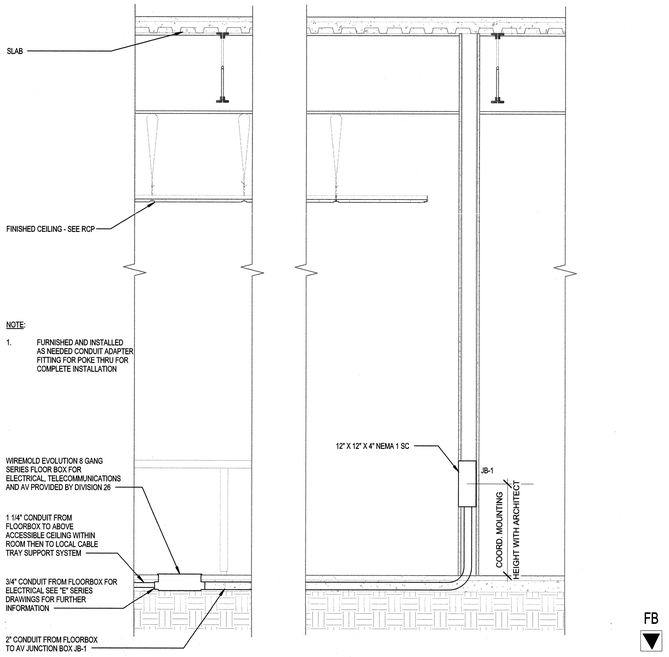
CONFORMED SET: 05/29/2015



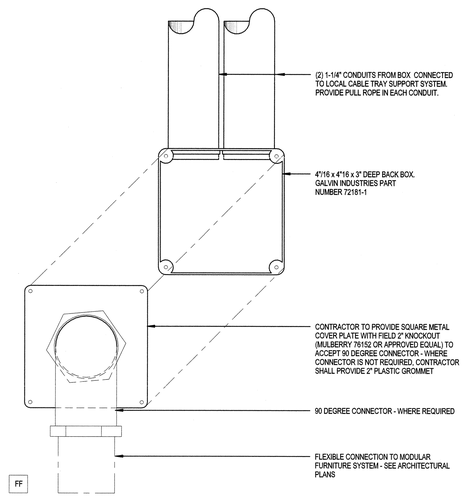
1 A/V POKE-THRU PATHWAY DETAIL
3/4" = 1'-0"



2 POKE-THRU PATHWAY DETAIL
3/4" = 1'-0"



3 A/V FLOOR BOX PATHWAY DETAIL
3/4" = 1'-0"



4 MODULAR FURNITURE FIXTURE FEED
6" = 1'-0"

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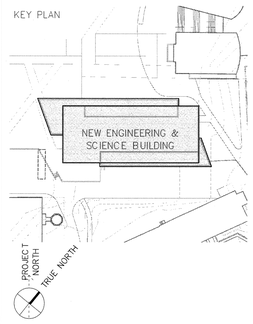
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

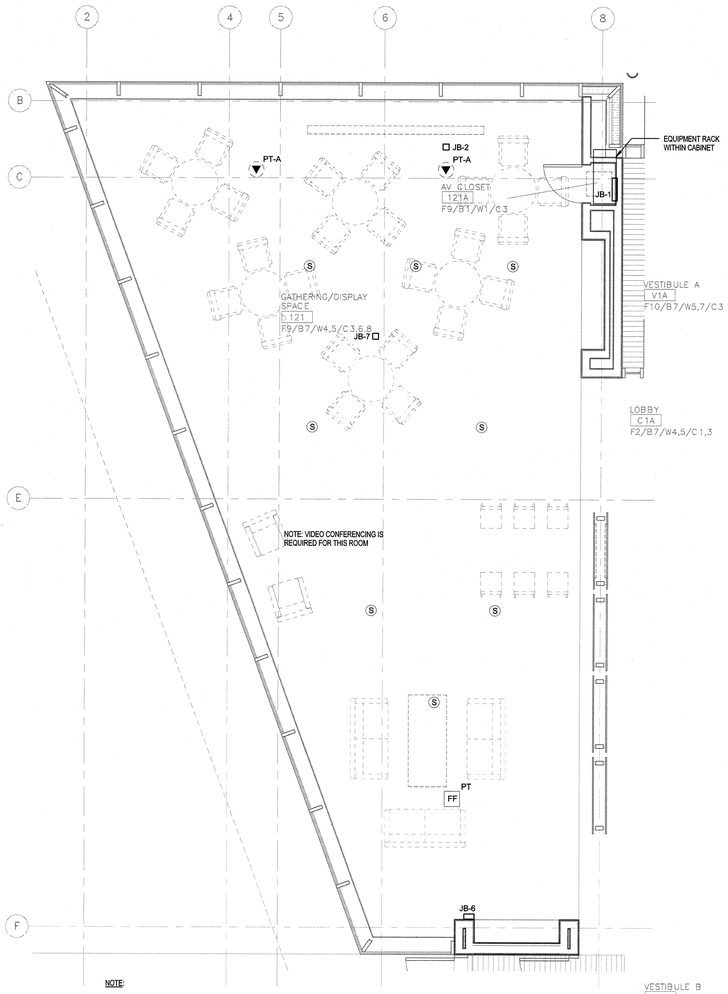
Drawing Title:

COMMUNICATIONS DETAILS

CONFORMED SET: 05/29/2015

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As Indicated

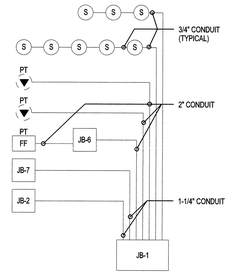
T704



NOTE:

1. COORDINATE WITH AV INTERGRATER AND ARCHITECTS PRIOR TO CONDUIT ROUGH IN

1 AV GATHERING/DISPLAY SPACE 121
1/4" = 1'-0"



2 AV GATHERING/DISPLAY SPACE 121 CONDUIT DIAGRAM
N.T.S.

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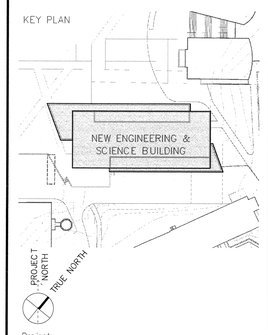
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

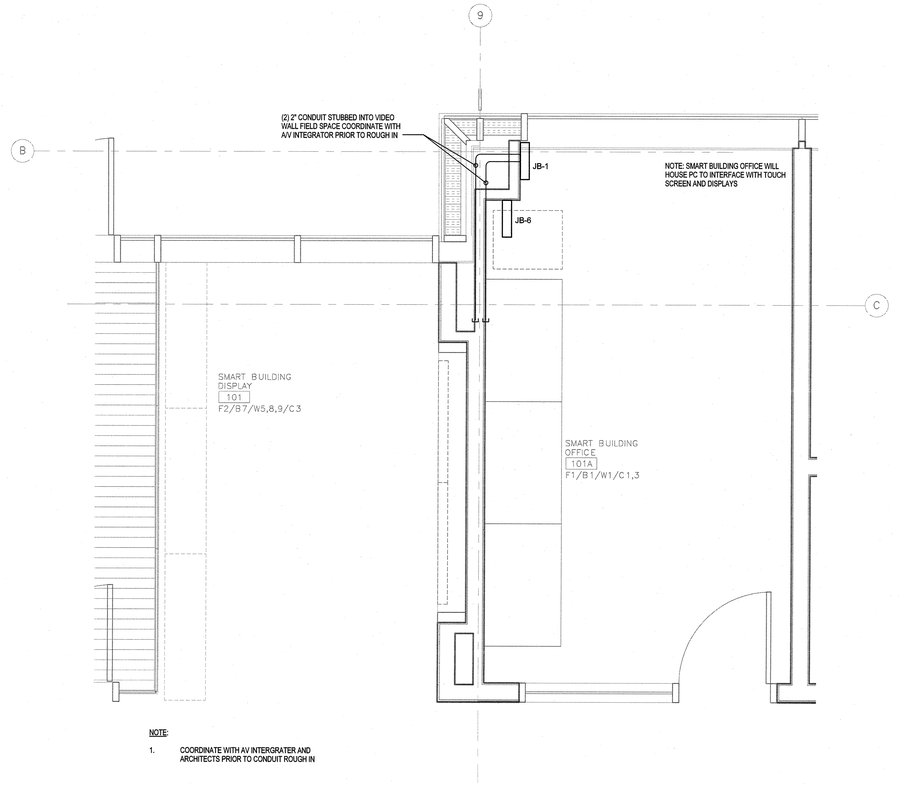
Drawing Title:

AV GATHERING/DISPLAY SPACE 121

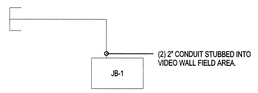
PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

T900

CONFORMED SET 05/29/2015



1 AV SMART BUILDING DISPLAY 101
1/2" = 1'-0"



2 AV SMART BUILDING DISPLAY 101
N.T.S.

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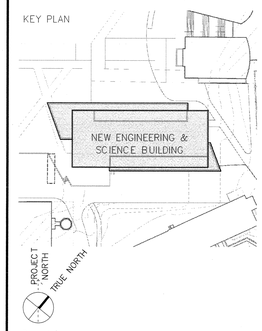
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

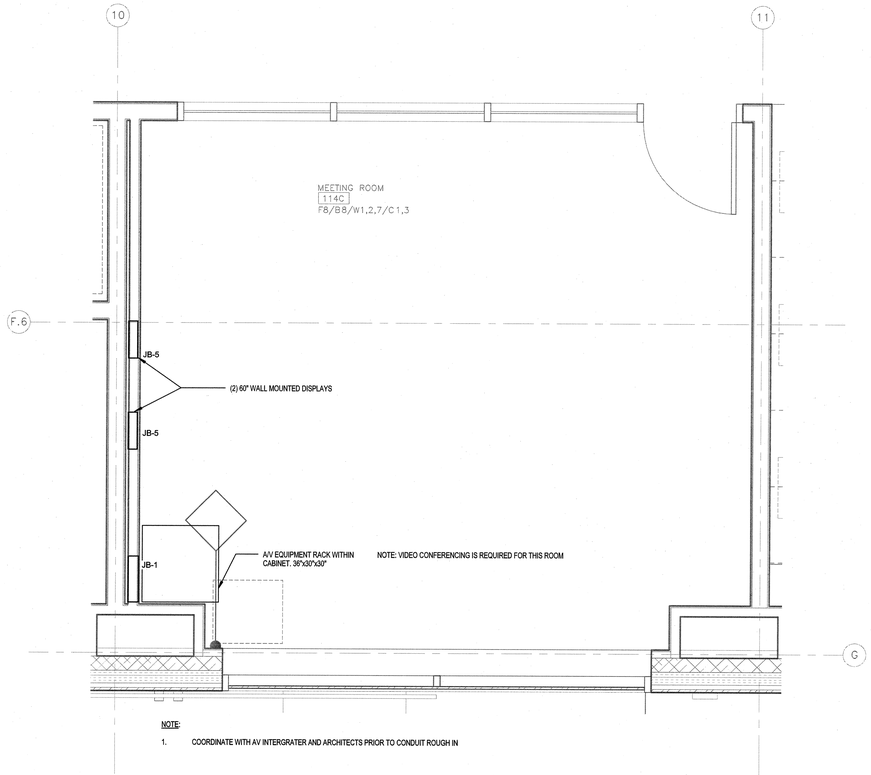
Drawing Title:

AV SMART BUILDING DISPLAY 101

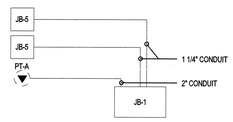
PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

T901

CONFORMED SET: 05/23/2015



1 AV MEETING ROOM 114C
1/2" = 1'-0"



2 AV MEETING ROOM 114C CONDUIT DIAGRAM
N.T.S.

UNIVERSITY OF CONNECTICUT

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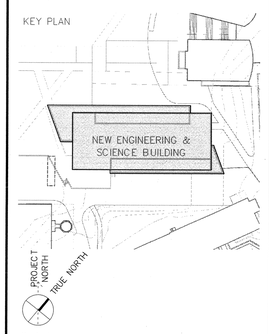
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

Drawing Title:

AV MEETING ROOM 114C

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
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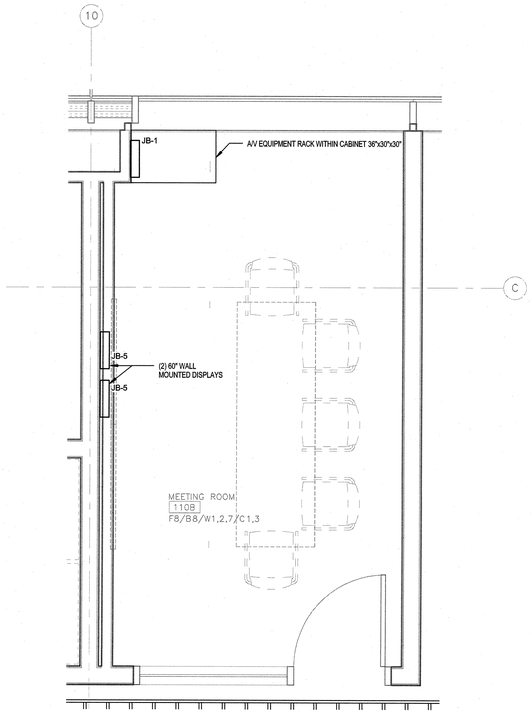
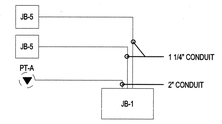
T902

CONFORMED SET: 05/29/2015



1 AV MEETING ROOM 110B
1/2" = 1'-0"



2 AV MEETING ROOM 104 CONDUIT DIAGRAM
N.T.S.

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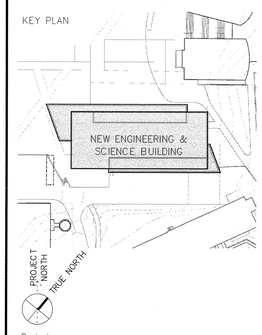
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

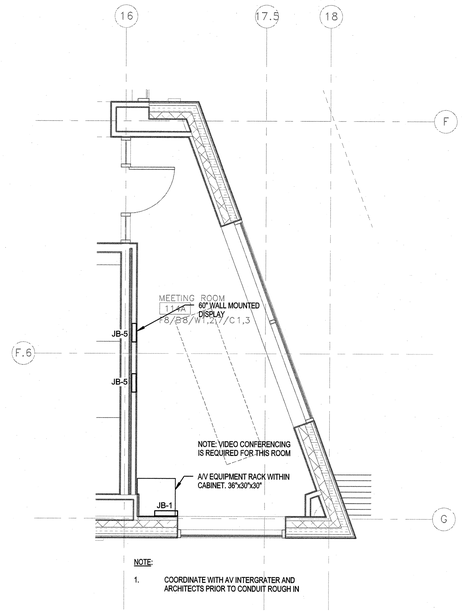
Drawing Title:

AV MEETING ROOM 110B

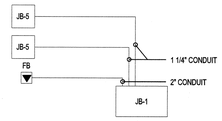
PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As Indicated

T903

CONFORMED SET: 05/29/2015



1 AV MEETING ROOM 114A
1/4" = 1'-0"



2 AV MEETING ROOM 114A CONDUIT DIAGRAM
N.T.S.

UNIVERSITY OF CONNECTICUT

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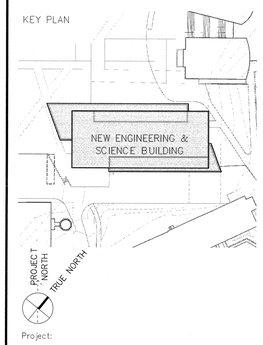
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

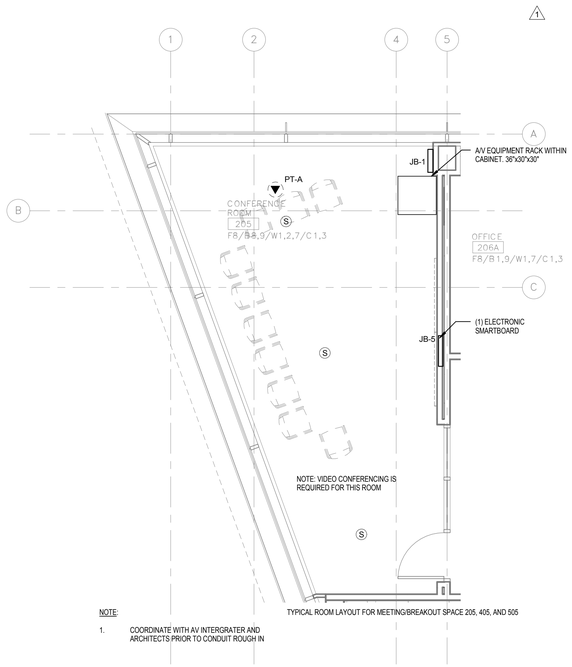
Drawing Title:

AV MEETING ROOM 114A

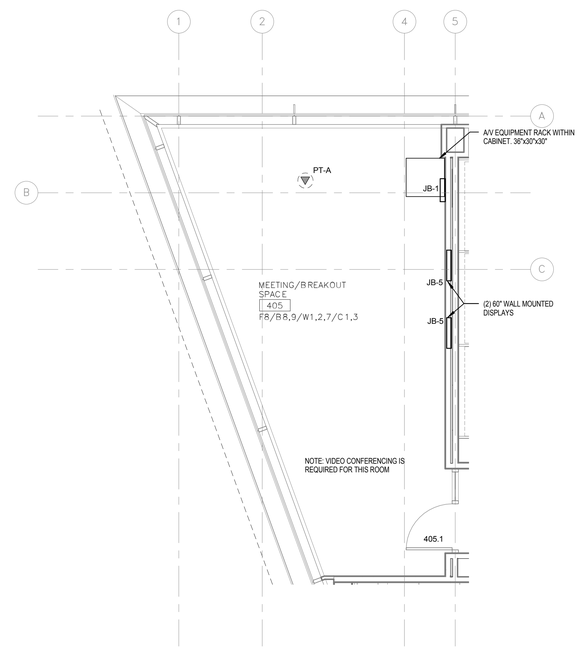
PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As Indicated

T904

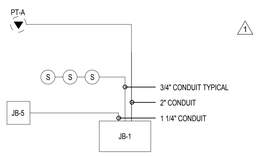
CONFORMED SET 06/29/2015



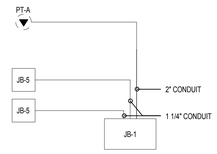
1 AV TYPICAL MEETING/BREAKOUT SPACE 205
1/4" = 1'-0"



3 AV TYPICAL MEETING/BREAKOUT SPACE 405, 505
1/4" = 1'-0"



2 AV TYPICAL MEETING/BREAKOUT SPACE 205 CONDUIT DIAGRAM
N.T.S.



4 AV TYPICAL MEETING/BREAKOUT SPACE 405, 505 CONDUIT DIAGRAM
N.T.S.

UNIVERSITY OF CONNECTICUT

ARCHITECT:
Mitchell | Giurgola Architects, LLP
630 Ninth Avenue, Suite 711
New York, New York 10036
212 663 4000

MEP/IT ENGINEER:
Bard, Rao + Athanas Engineers
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212 840 0060

STRUCTURAL ENGINEER:
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New York, New York 10018
212 986 3700

SITE/CIVIL ENGINEER:
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860 633 8341

LANDSCAPE ARCHITECTS:
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New York, New York 10003
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LEED CONSULTANT:
Steven Winter Associates, Inc.
61 Washington Street
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203 857 0200

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	2015-03-20	BID ADDENDUM 01

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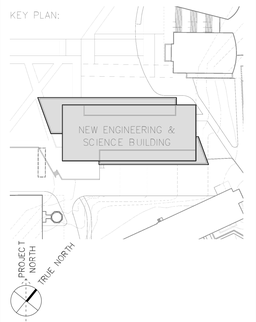
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

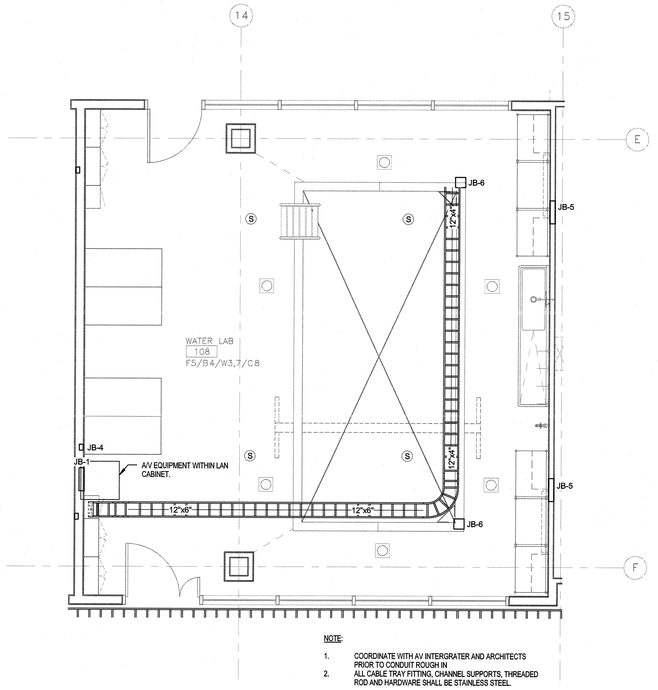
DRAWING TITLE:

AV TYPICAL MEETING/BREAKOUT SPACE

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

T905

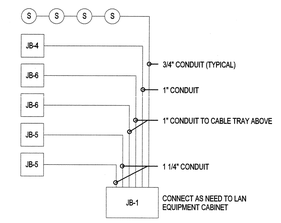
CONFORMED SET: 05/29/2015



NOTE:

1. COORDINATE WITH AV INTERGRATER AND ARCHITECTS PRIOR TO CONDUIT ROUGH IN
2. ALL CABLE TRAY FITTING, CHANNEL SUPPORTS, THREADED ROD AND HARDWARE SHALL BE STAINLESS STEEL.

1 AV WATER LAB 108
1/4" = 1'-0"



2 AV WATER LAB 108 CONDUIT DIAGRAM
N.T.S.

UNIVERSITY OF CONNECTICUT

ARCHITECT:
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630 Ninth Avenue, Suite 711
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LEED CONSULTANT:
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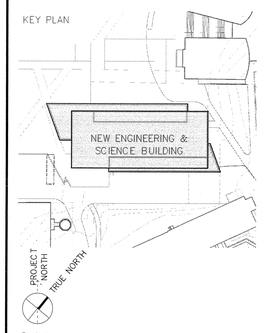
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

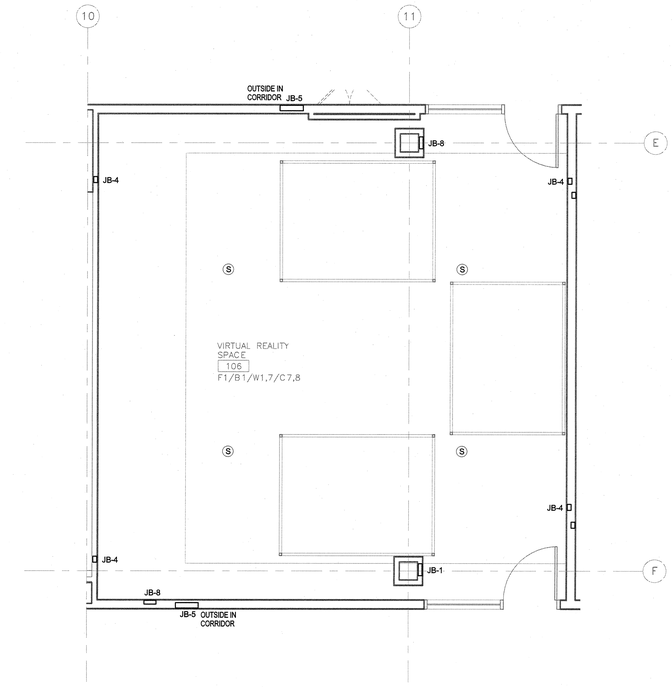
Drawing Title:

AV WATER LAB 108

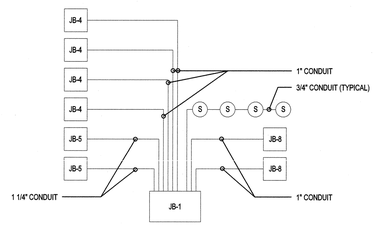
PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As Indicated

T906

CONFORMED SET 05/29/2015



1 AV VIRTUAL REALITY SPACE 106
1/4" = 1'-0"



2 AV VIRTUAL REALITY SPACE 106 CONDUIT DIAGRAM
N.T.S.

UNIVERSITY OF CONNECTICUT

ARCHITECT:
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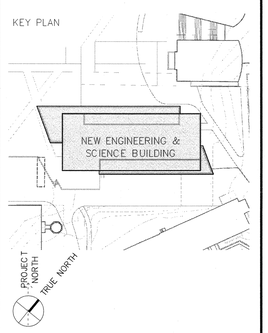
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

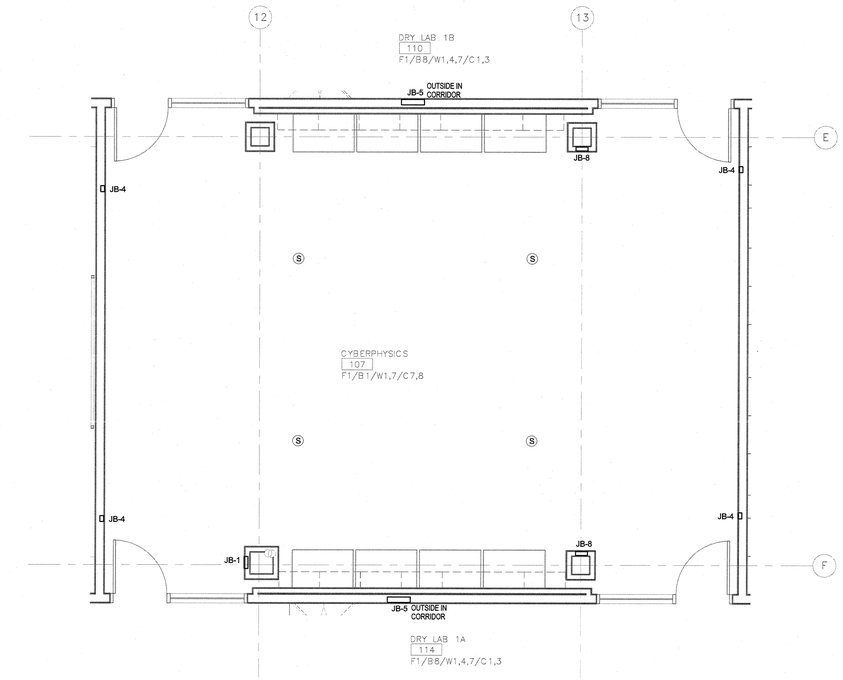
Drawing Title:

AV VIRTUAL REALITY SPACE 106

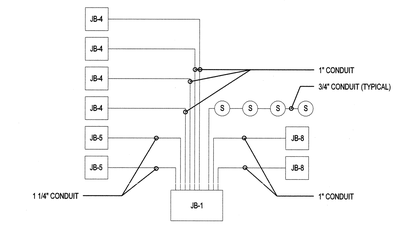
PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As Indicated

T907

CONFORMED SET: 05/29/2015



1 AV CYBERPHYSICS 107
1/4" = 1'-0"



2 AV CYBERPHYSICS 107 CONDUIT DIAGRAM
N.T.S.

UNIVERSITY OF CONNECTICUT

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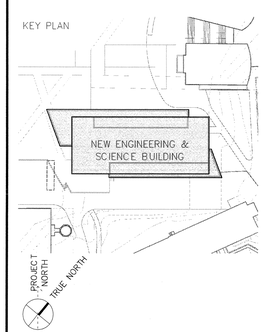
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

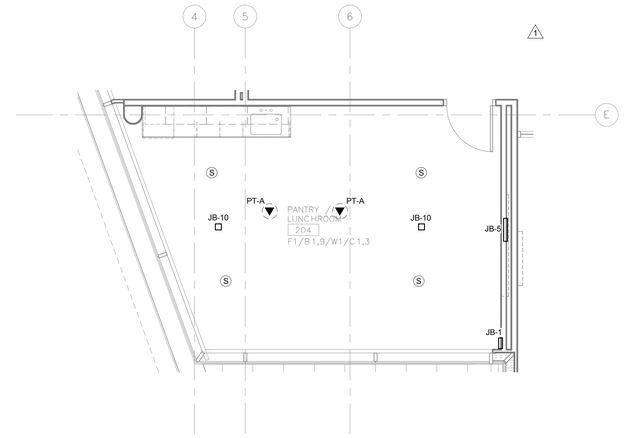
Drawing Title:

AV CYBERPHYSICS 107

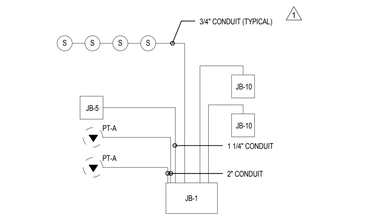
PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As Indicated

CONFORMED SET 05/29/2015

T908



1 AV PANTRY/LUNCHROOM 204
1/4" = 1'-0"



2 AV PANTRY/LUNCHROOM 204 CONDUIT DIAGRAM
N.T.S.

UNIVERSITY OF CONNECTICUT

ARCHITECT:
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212 840 0060

STRUCTURAL ENGINEER:
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New York, New York 10018
212 986 3700

SITE/CIVIL ENGINEER:
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Glastonbury, Connecticut 06033
860 633 8341

LANDSCAPE ARCHITECTS:
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New York, New York 10003
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LEED CONSULTANT:
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Norwalk, Connecticut 06854
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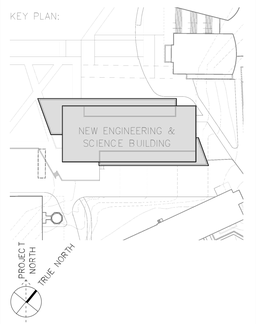
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

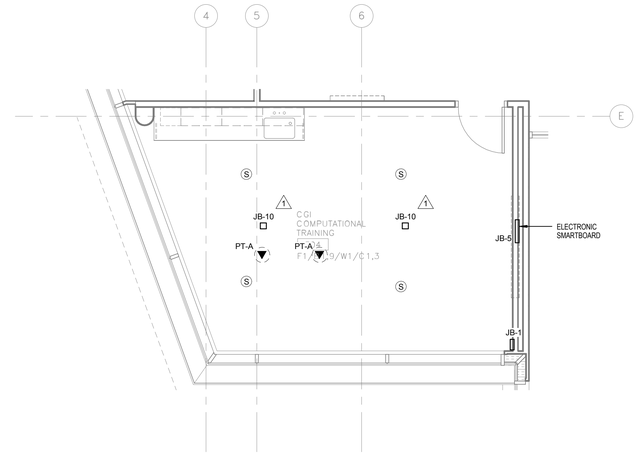
DRAWING TITLE:

AV PANTRY/LUNCHROOM 204

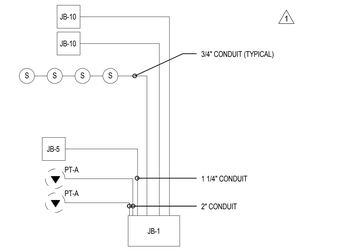
PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

T909

CONFORMED SET: 05/29/2015



1 AV CGI COMPUTATIONAL TRAINING 304
1/4" = 1'-0"



2 AV CGI COMPUTATIONAL TRAINING 304 CONDUIT DIAGRAM
N.T.S.

UNIVERSITY OF CONNECTICUT

ARCHITECT:
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630 Ninth Avenue, Suite 711
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LANDSCAPE ARCHITECTS:
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LEED CONSULTANT:
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61 Washington Street
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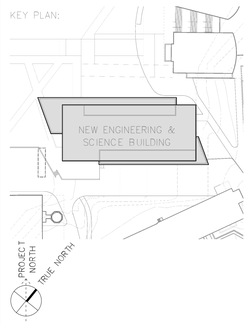
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

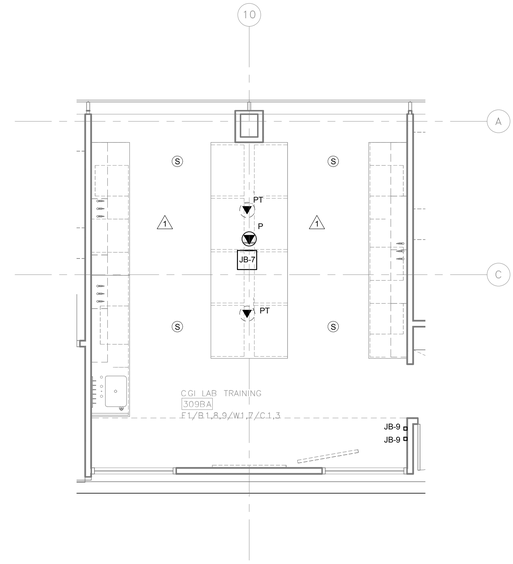
DRAWING TITLE:

AV CGI COMPUTATIONAL TRAINING 304

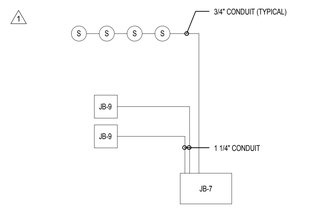
PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

T910

CONFORMED SET: 05/29/2015



1 AV CGI LAB TRAINING 309BA
1/4" = 1'-0"



2 AV CGI LAB TRAINING 309BA CONDUIT DIAGRAM
N.T.S.

UNIVERSITY OF CONNECTICUT

ARCHITECT:
Mitchell | Giurgola Architects, LLP
630 Ninth Avenue, Suite 711
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212 663 4000

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LANDSCAPE ARCHITECTS:
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Norwalk, Connecticut 06854
203 857 0200

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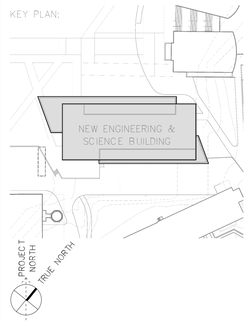
KEY PLAN:



PROJECT:

NEW ENGINEERING AND SCIENCE BUILDING

DRAWING TITLE:

AV CGI LAB TRAINING 309BA

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

T911

CONFORMED SET: 05/29/2015

UNIVERSITY OF CONNECTICUT
STORRS, CT 06269

DRAWING NO.	SHEET NO.	SHEET TITLE
1 OF 12	SEC-00	TITLE SHEET
2 OF 12	SEC-B	BASEMENT PLAN
3 OF 12	SEC-01	FIRST FLOOR PLAN
4 OF 12	SEC-02	SECOND FLOOR PLAN
5 OF 12	SEC-03	THIRD FLOOR PLAN
6 OF 12	SEC-04	FOURTH FLOOR PLAN
7 OF 12	SEC-05	FIFTH FLOOR PLAN
8 OF 12	SEC-P	PENTHOUSE PLAN
9 OF 12	SEC-R	ROOF PLAN
10 OF 12	SEC-RIS	SECURITY RISER PLAN
11 OF 12	SEC-DET	SECURITY DOOR AND DEVICE DETAIL
12 OF 12	SEC-DET1	SECURITY DOOR HARDWARE SCHEDULE

AGGLETON& ASSOCIATES
SECURITY CONSULTING

450 Manville Road
Pleasantville, NY 10570
914.524.4110 (v)
914.524.4115 (f)
www.aggleton.com

SECURITY SYMBOLS

- PROXIMITY CARD READER
- ELECTRIC LOCK
  L=Lockset with integral REX switch
  M=MAGNETIC LOCK
- DOOR POSITION SWITCH
- SECURITY FIELD PANEL
- FIRE SYSTEM INTERRUPT RELAY
- ELECTRIFIED EXIT DEVICE
  WITH Integrated Req. To Exit Switch
- POWER TRANSFER DEVICE
  H=ELECTRIC HINGE (8wire)
- POWER SUPPLY
  C=CCTV; P=Field Panel; L=Lock
- VIDEO WORKSTATION
- DOME CAMERA FLUSH MOUNTED
  C=Corner; W=WALL MOUNTED
- 120 VAC POWER (BY OTHERS)
- DATA CONNECTION TO NETWORK
- X=DOOR DETAIL TYPE
  Y=DOOR NUMBER

UNIVERSITY OF CONNECTICUT

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NO.	DATE	COMMENTS

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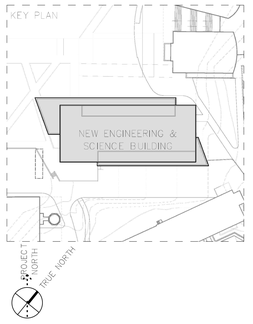
KEY PLAN



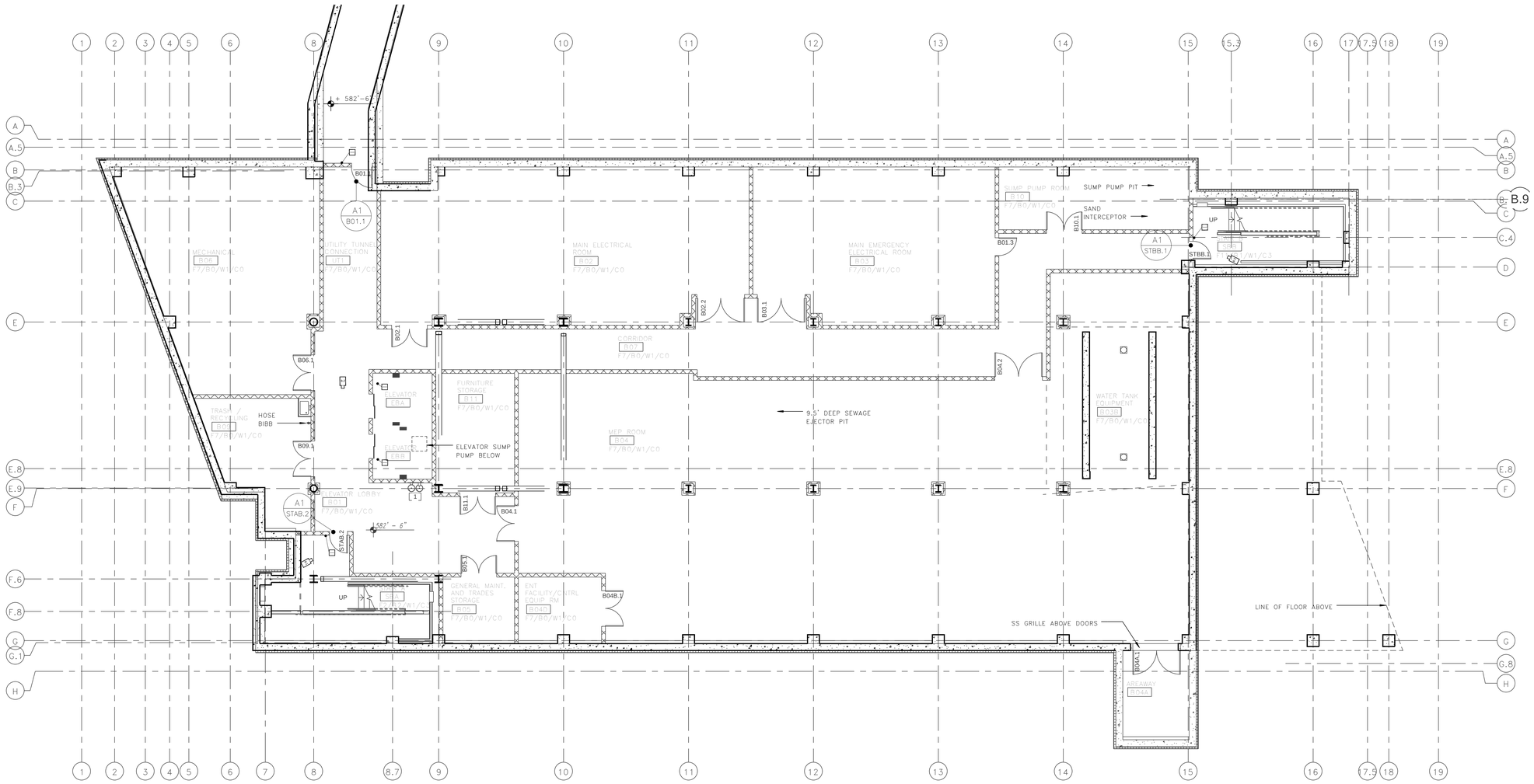
Project:

Drawing Title:
TITLE SHEET

PROJECT NO:	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: NOT TO SCALE

SEC–00

CONFORMED SET: 05/29/2015



UNIVERSITY OF CONNECTICUT

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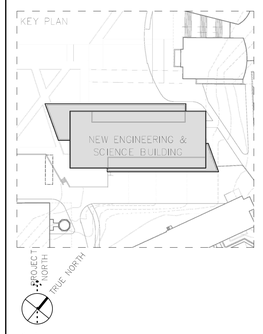
KEY PLAN



Project:

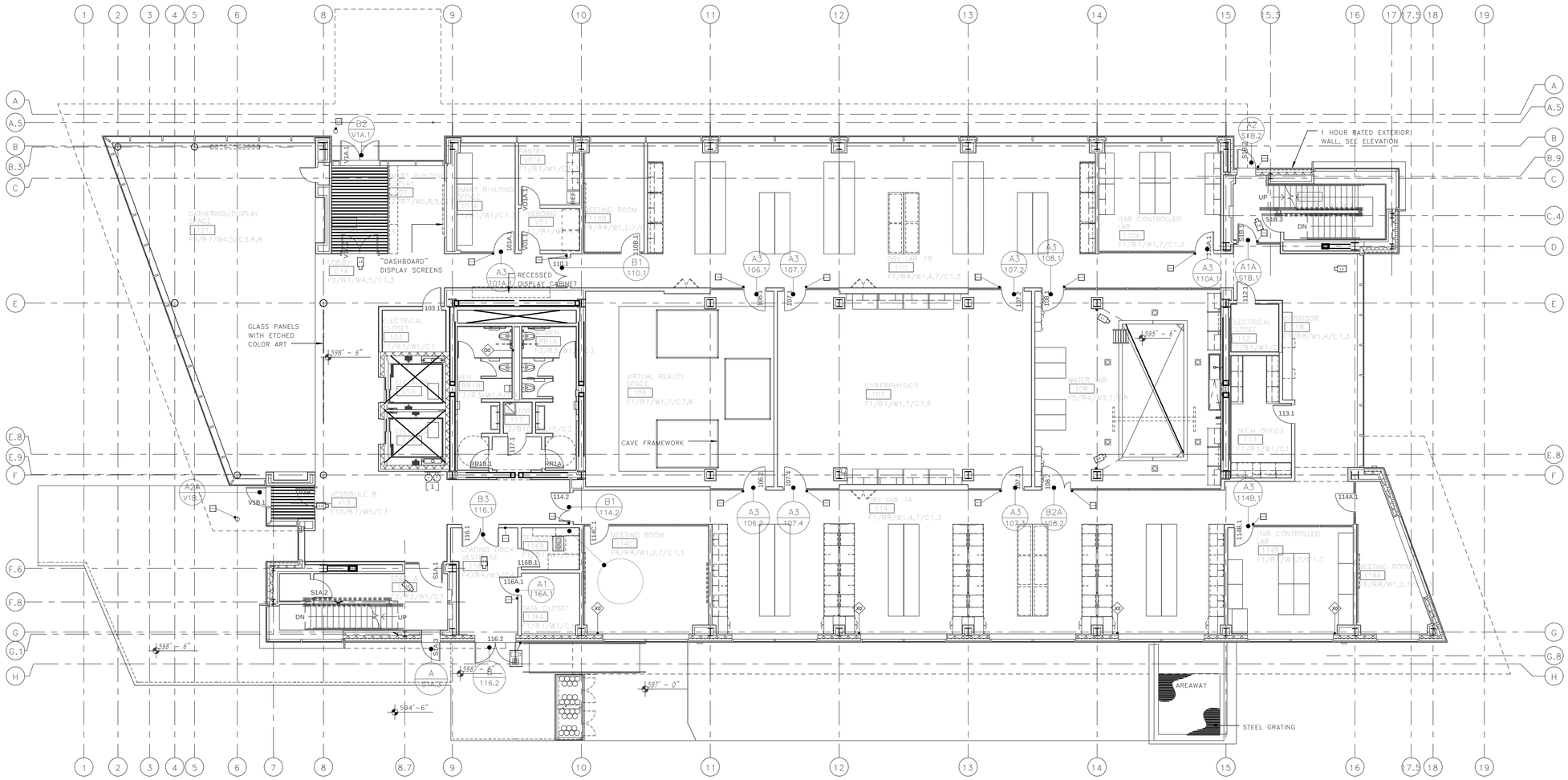
Drawing Title:

BASEMENT FLOOR SECURITY PLAN

PROJECT NO:	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

CONFORMED SET: 05/29/2015

SEC-B



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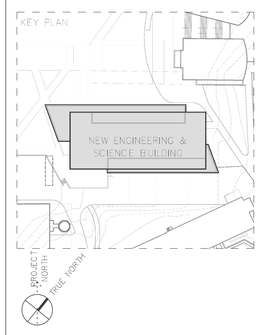


Project:

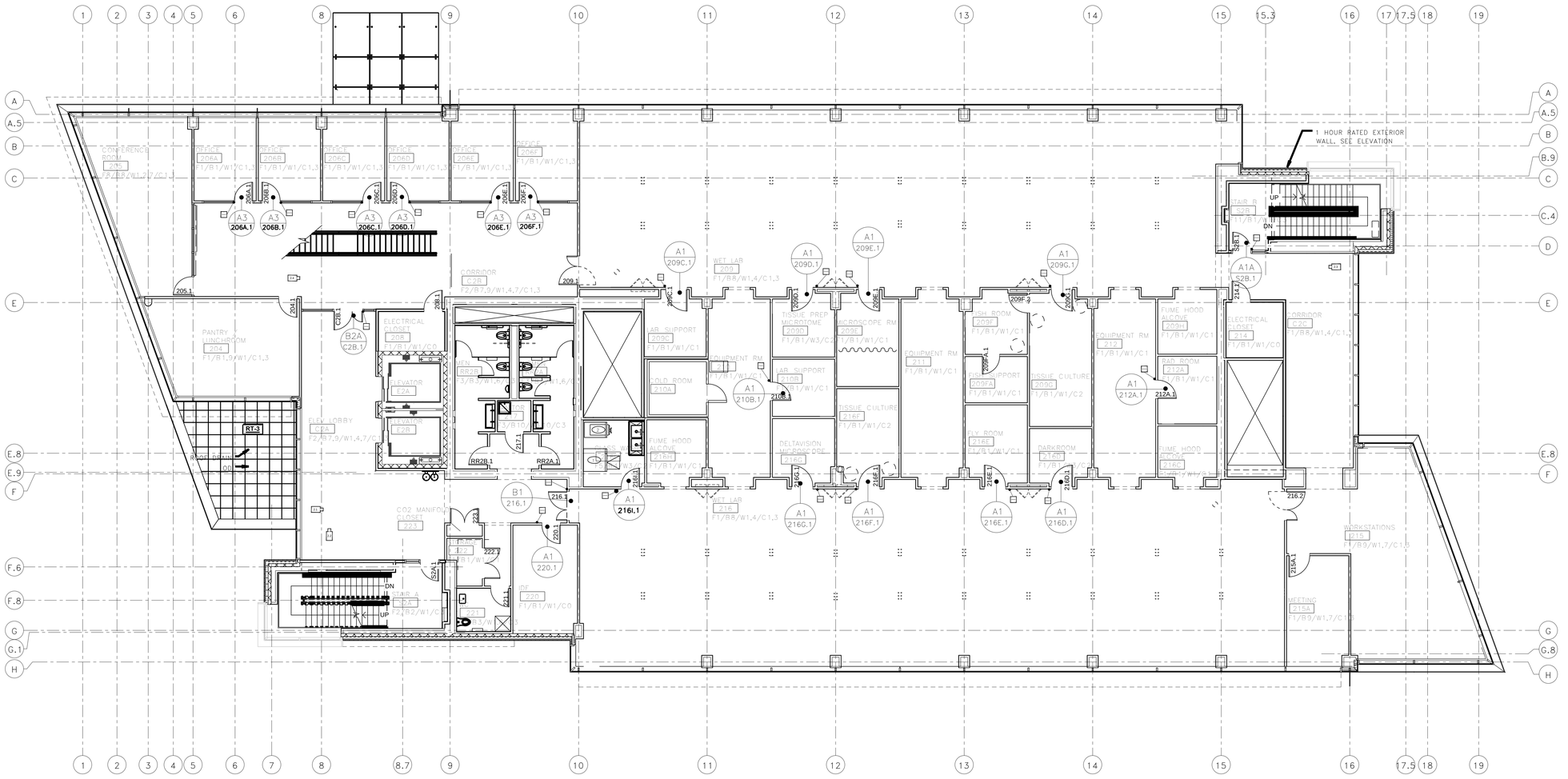
Drawing Title:

FIRST FLOOR SECURITY PLAN

PROJECT NO:	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

CONFORMED SET: 05/29/2015

SEC-01



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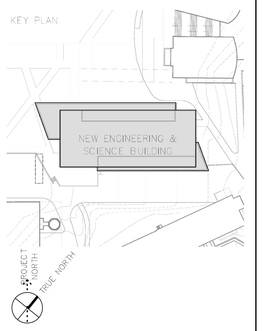


Project:

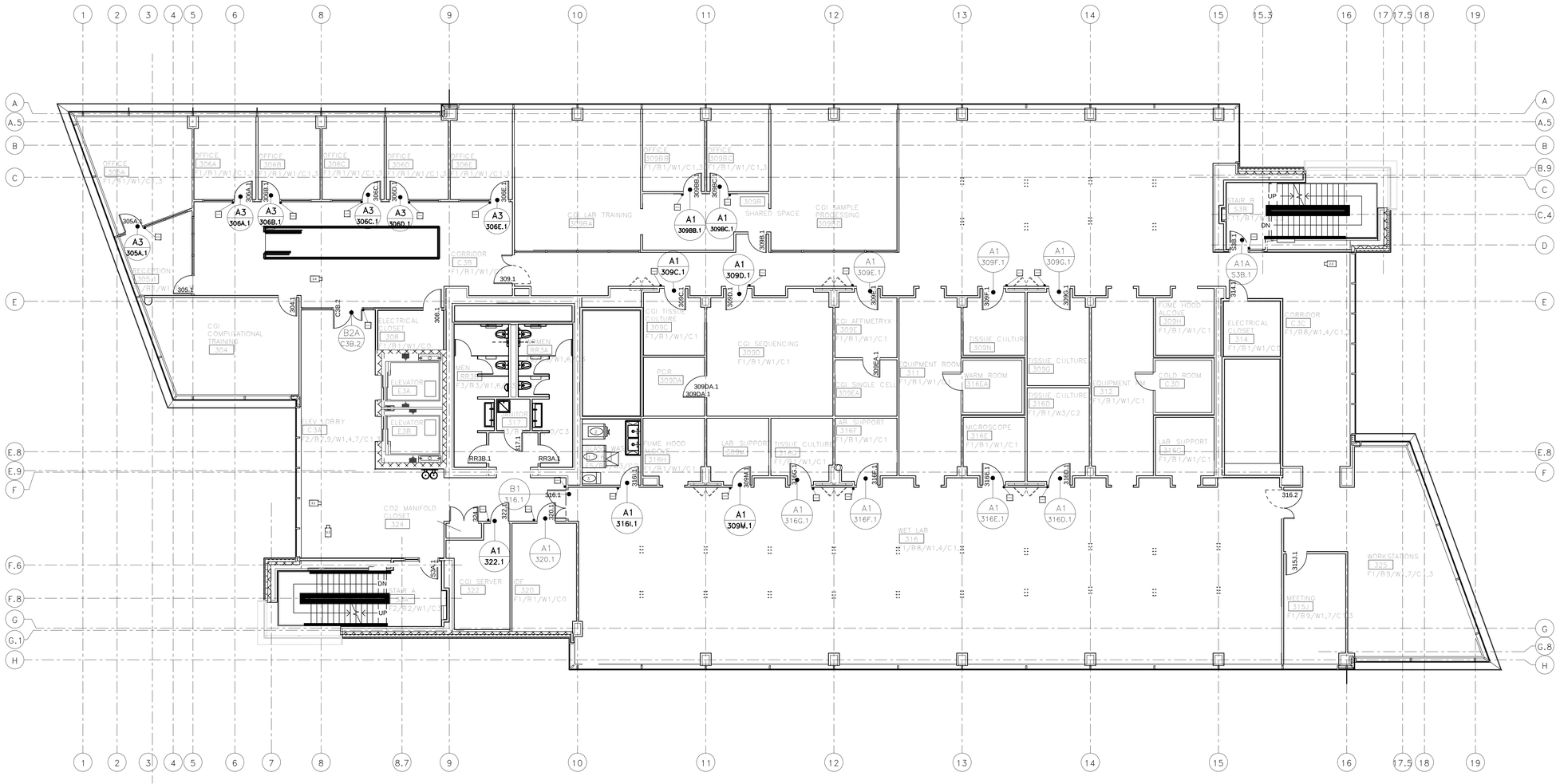
Drawing Title:

SECOND FLOOR PLAN

CONFORMED SET: 05/29/2015

PROJECT NO:	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

SEC-02



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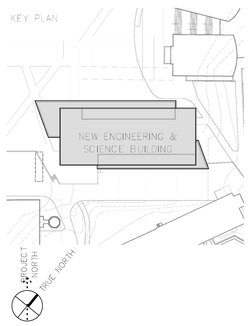


Project:

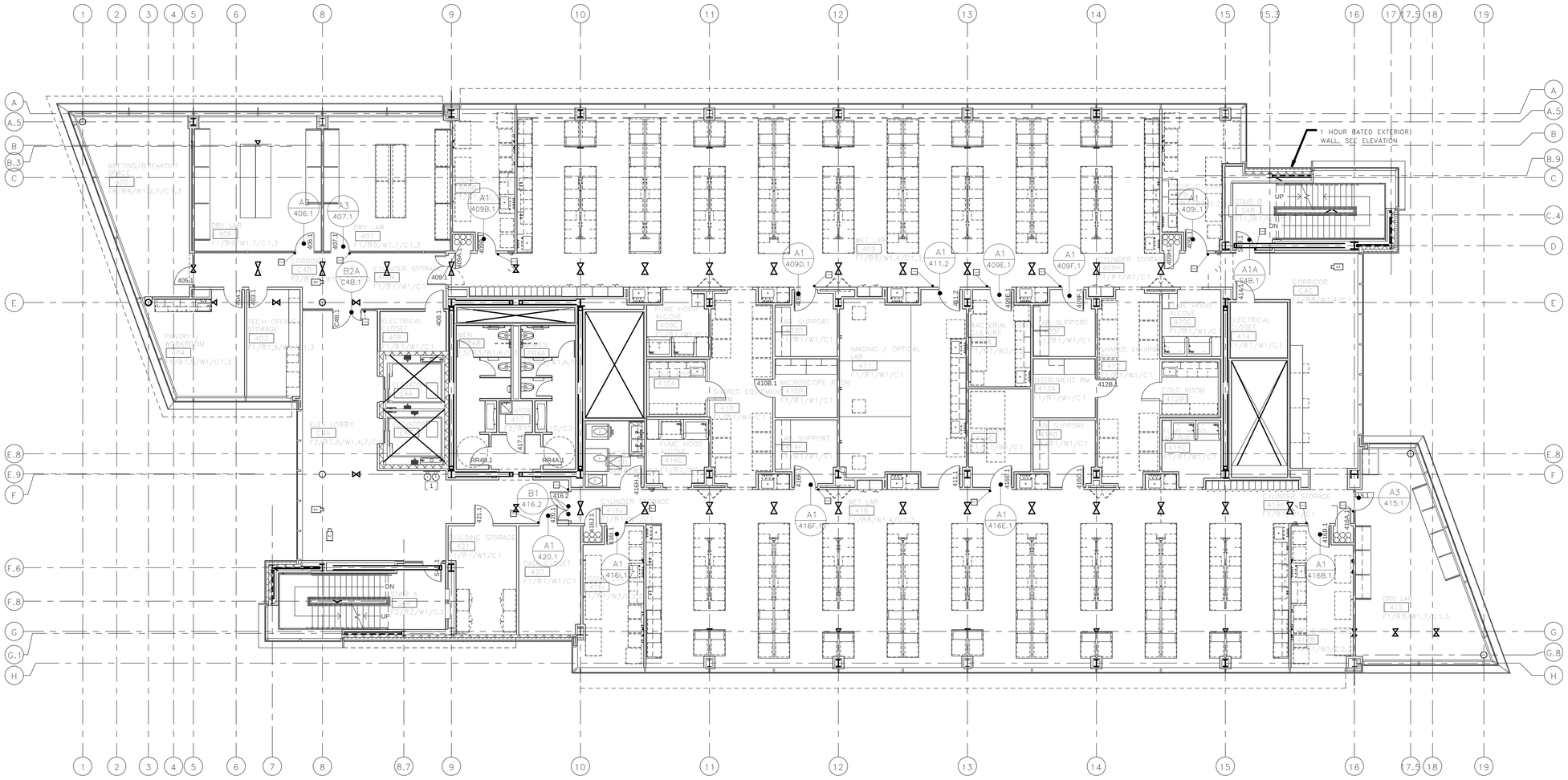
Drawing Title:

THIRD FLOOR PLAN

CONFORMED SET: 05/29/2015

PROJECT NO:	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

SEC-03



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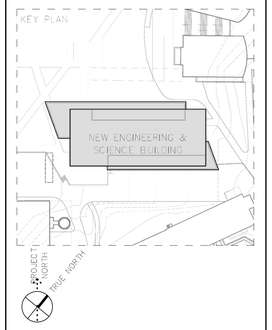


Project:

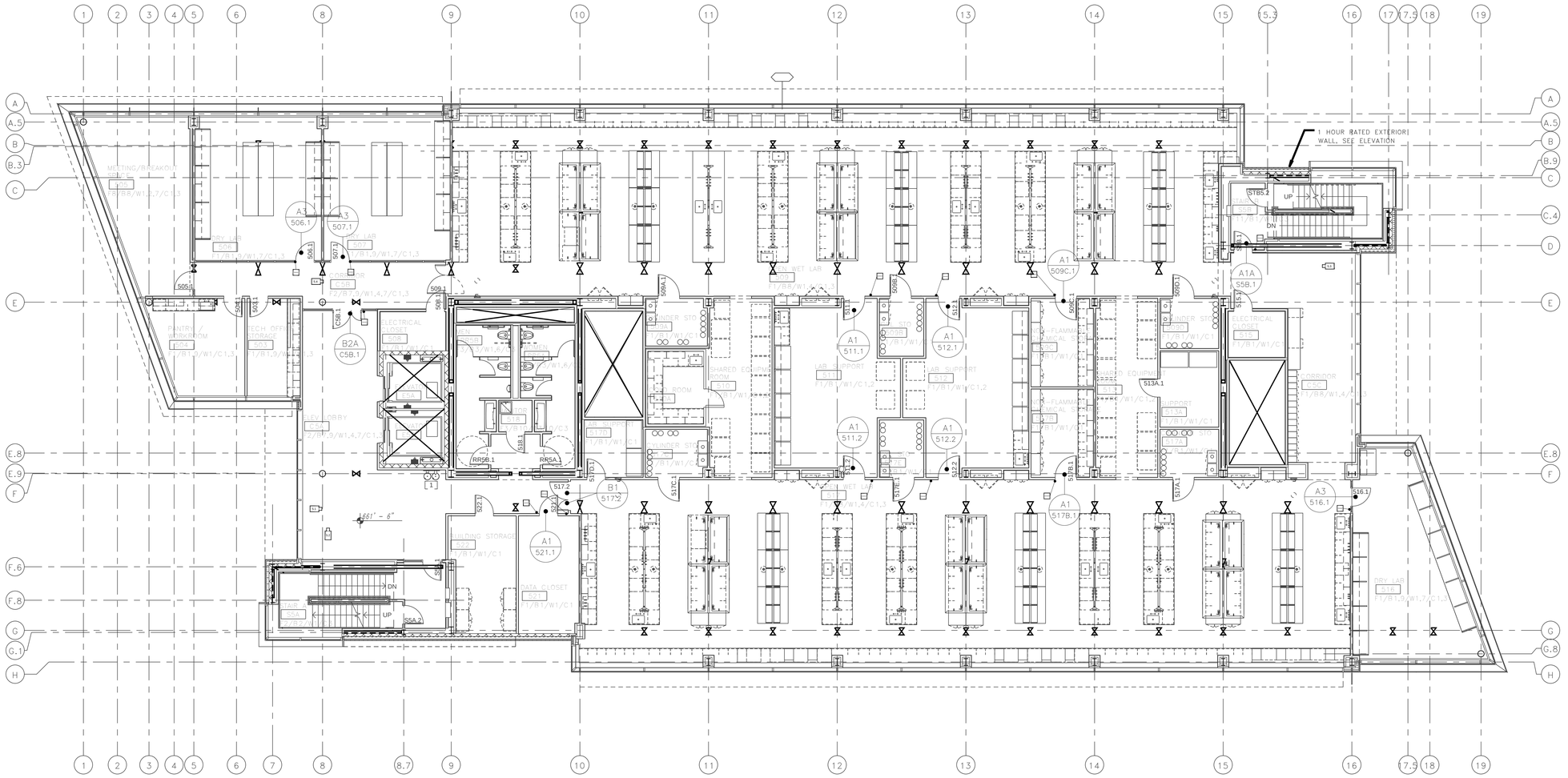
Drawing Title:

FOURTH FLOOR SECURITY PLAN

CONFORMED SET: 05/29/2015

PROJECT NO:	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

SEC–04



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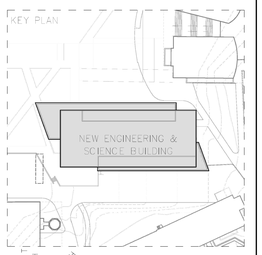


PROJECT NORTH
TRUE NORTH

Project:

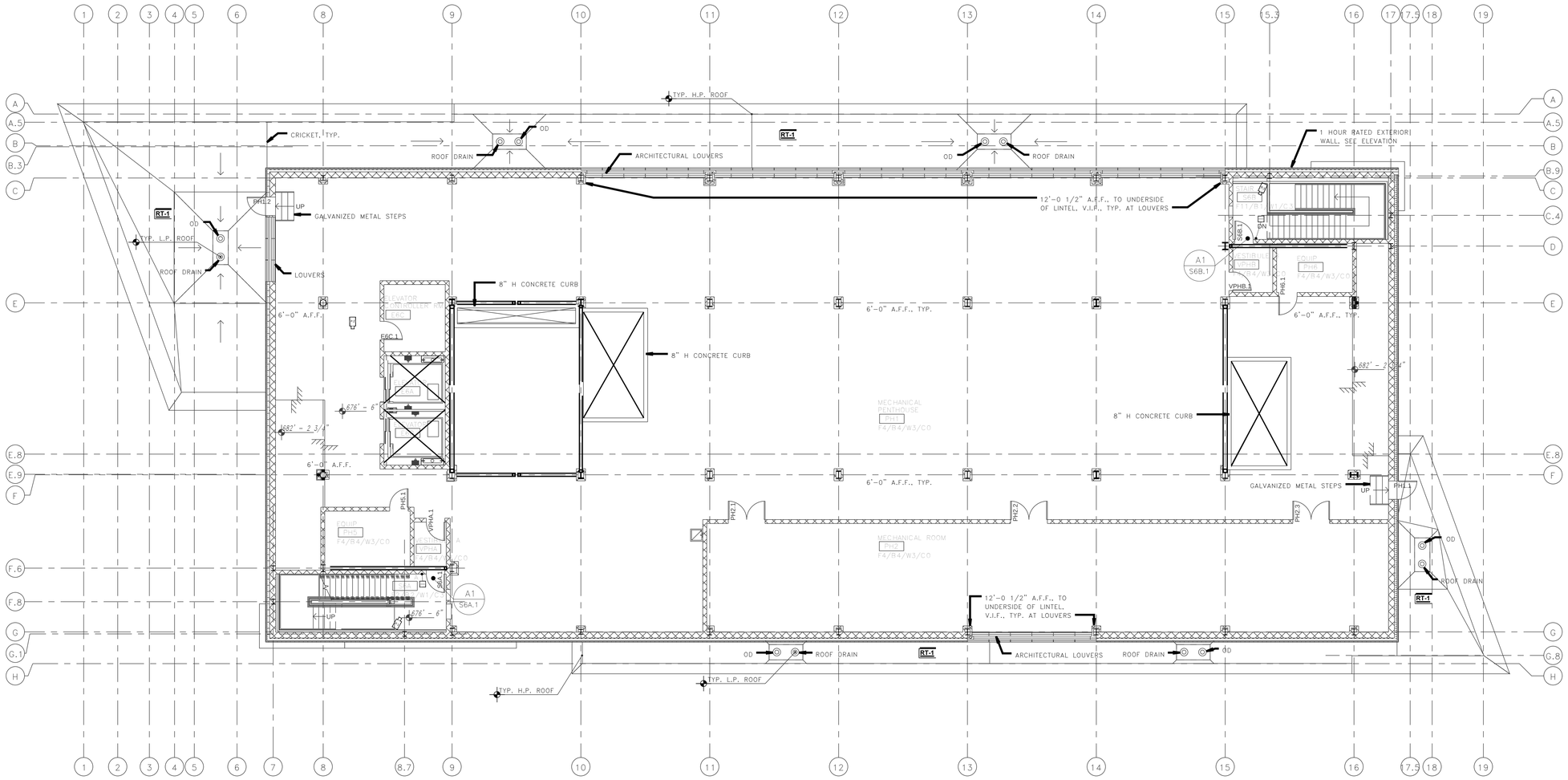
Drawing Title:

FIFTH FLOOR SECURITY PLAN

PROJECT NO:	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

SEC–05

CONFORMED SET: 05/29/2015



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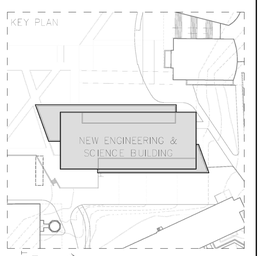


Project:

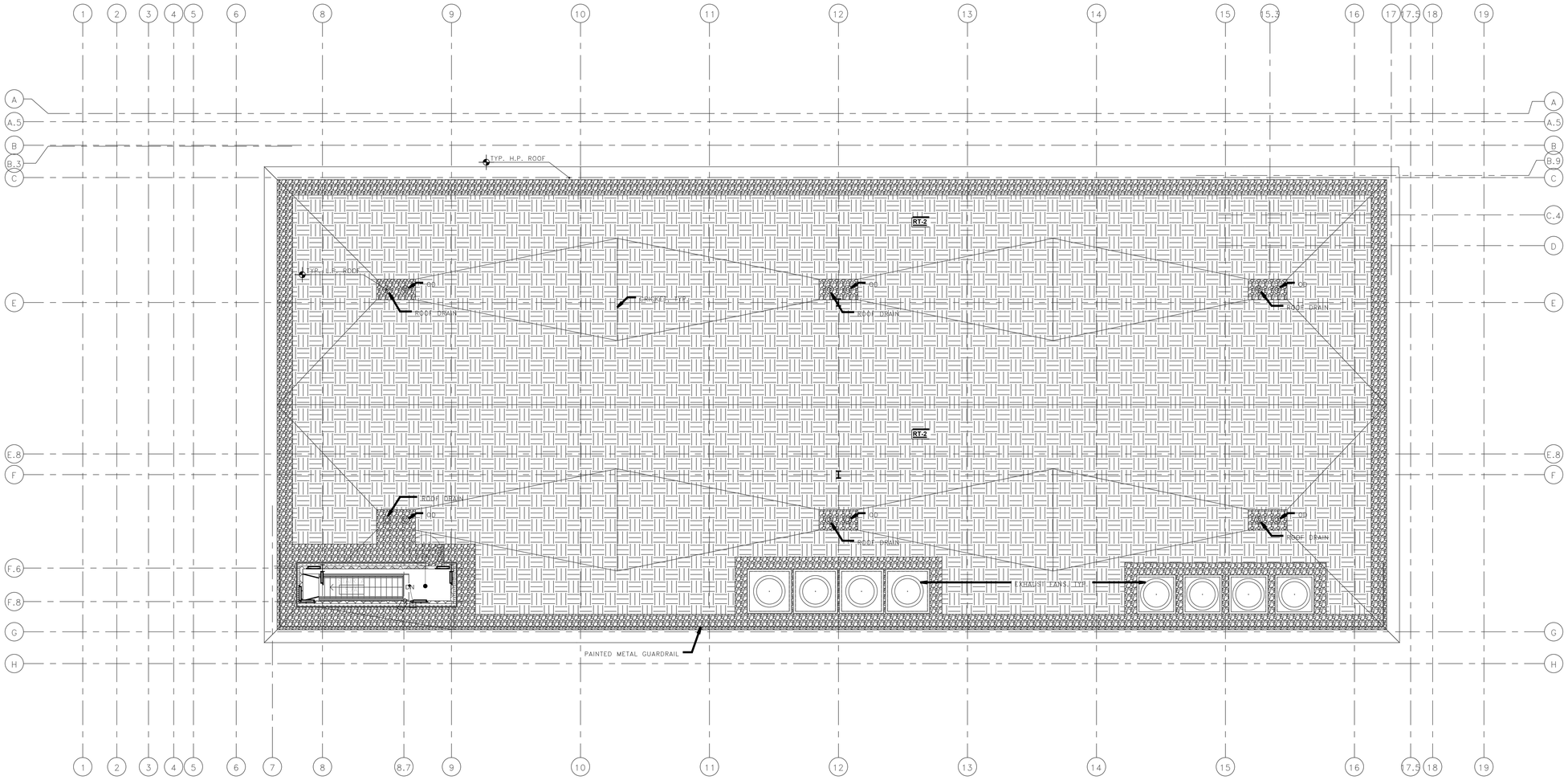
Drawing Title:

PENTHOUSE SECURITY FLOOR PLAN

PROJECT NO:	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

SEC-P

CONFORMED SET: 05/29/2015



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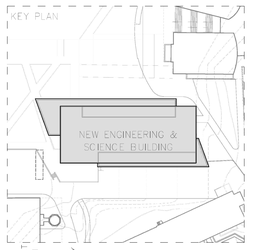

PROJECT NORTH
TRUE NORTH

Project:

Drawing Title:

ROOF SECURITY PLAN

PROJECT NO:	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

CONFORMED SET: 05/29/2015

SEC-R

SECURITY SYMBOLS

- PROXIMITY SMART CARD READER
- ELECTRIC LOCK — L=Lockset with integral REX switch; SP=Electric Strikes w/Bumcraft Hardware
- DOOR POSITION SWITCH
- SECURITY FIELD PANEL
- VIDEO INTERCOM MASTER
- VIDEO INTERCOM DOOR STATION
- DOOR PROP HORN
- ELECTRIFIED EXIT DEVICE WITH Integrated Req. To Exit Switch
- POWER TRANSFER DEVICE H=ELECTRIC HINGE (9wire)
- POWER SUPPLY C=CCTV; P=Field Panel; L=Lock
- FIRE SYSTEM INTERRUPT RELAY
- ADA PADDLE
- REX MOTION SENSOR
- DOME CAMERA FLUSH CEILING MOUNTED C=Corner; W=WALL MOUNTED
- 120 VAC POWER (BY OTHERS)
- DATA CONNECTION TO NETWORK
- VIDEO WORKSTATION
- X-DOOR DETAIL TYPE
- Y-DOOR NUMBER

ROOF

STAIR ENTRANCE - A

PENTHOUSE

STAIR ENTRANCE - A | STAIR ENTRANCE - B

ELEVATOR CONTROL ROOM E6C

R.1 | P.1 | P.2 | P.3

5th. FLOOR

DRY LAB | DRY LAB | DRY LAB | CHEMICAL STORAGE | CHEMICAL STORAGE

LAB SUPPORT | LAB SUPPORT | LAB SUPPORT | LAB SUPPORT | IT/SECURITY CLOSET | SOUTH AREA ENTRANCE | STAIR ENTRANCE - B | ELEVATOR LOBBY ENTRANCE

TO CAMPUS | SECURITY SERVER | PoE NETWORK SWITCH

IT DATA/SECURITY CLOSET 521.1

5.1 | 5.2 | 5.3 | 5.4

4th. FLOOR

TISSUE CULTURE | LAB SUPPORT | CONFOCAL | TISSUE CULTURE | DRY LAB | TISSUE CULTURE | LAB SUPPORT | BACTERIAL CULTURE

IMAGING/OPTICAL | LAB SUPPORT | TISSUE CULTURE | DRY LAB | DRY LAB | IT/SECURITY CLOSET | SOUTH AREA ENTRANCE | STAIR ENTRANCE - B | ELEVATOR LOBBY ENTRANCE

TO CAMPUS | SECURITY SERVER | PoE NETWORK SWITCH

IT DATA/SECURITY CLOSET 420.1

4.1 | 4.2 | 4.3 | 4.4

3rd. FLOOR

LAB SUPPORT | LAB SUPPORT | CONFOCAL | OFFICE | OFFICE | OFFICE | OFFICE | OFFICE | OFFICE | OFFICE

CGI SERVER | GLASS WASH | LAB SUPPORT | LAB SUPPORT | LAB SUPPORT | LAB SUPPORT | CGI SEQUENSING | CGI TISSUE CULTURE | IT/SECURITY CLOSET | SOUTH AREA ENTRANCE | STAIR ENTRANCE - B | ELEVATOR LOBBY ENTRANCE

TO CAMPUS | SECURITY SERVER | PoE NETWORK SWITCH

IT DATA/SECURITY CLOSET 320.1

3.1 | 3.2 | 3.3 | 3.4

2nd. FLOOR

LAB SUPPORT | LAB SUPPORT | CONFOCAL | TISSUE CULTURE | OFFICE | OFFICE | OFFICE | OFFICE | OFFICE | OFFICE

ANIMAL PROCEDURE | LAB SUPPORT | LAB SUPPORT | LAB SUPPORT | TISSUE CULTURE | LAB SUPPORT | GLASS WASH | IT/SECURITY CLOSET | SOUTH AREA ENTRANCE | STAIR ENTRANCE - B | ELEVATOR LOBBY ENTRANCE

TO CAMPUS | SECURITY SERVER | PoE NETWORK SWITCH

IT DATA/SECURITY CLOSET 220.1

2.1 | 2.2 | 2.3 | 2.4

1st. FLOOR

VIRTUAL REALITY SPACE | CYBER PHYSICS | CYBER PHYSICS | WATER LAB | WATER LAB | CYBER PHYSICS | CYBER PHYSICS | VIRTUAL REALITY SPACE | SMART BUILDING OFFICE | STAIR A OUTER EXIT | LOADING DOCK OFFICE | LOADING DOCK OUTER ENTRANCE

LOADING DOCK ENTRANCE | ITAR CONTROL LAB | ITAR CONTROL LAB | IT/SECURITY CLOSET | SOUTH AREA ENTRANCE | NORTH AREA ENTRANCE | STAIR-B OUTER ENTRANCE | STAIR ENTRANCE - B | NORTH LOBBY ENTRANCE with ADA OPENER | WEST LOBBY ENTRANCE with ADA OPENER

TO CAMPUS | SECURITY SERVER | PoE NETWORK SWITCH

IT DATA/SECURITY CLOSET 116A.1

1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 1.7 W | 1.8 W

BASEMENT

UTILITY TUNNEL | ELEVATORS | STAIR ENTRANCE - A | STAIR ENTRANCE - B

FACILITY CONTROL EQIPMENT ROOM B04D

B.1 | B.2 | B.3

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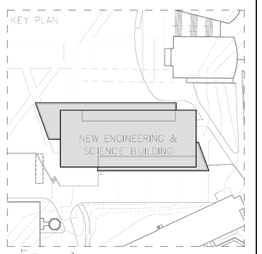


Project:

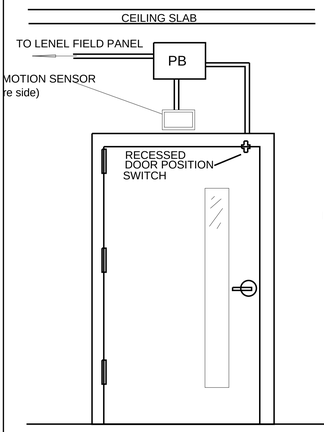
Drawing Title:

SECURITY RISER PLAN

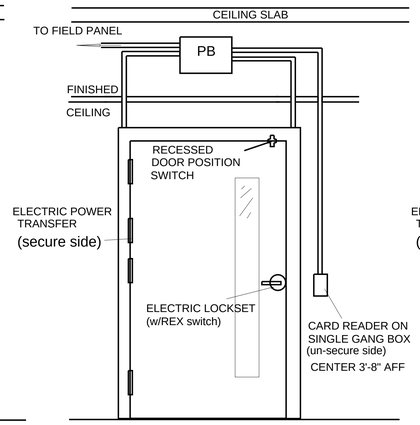
PROJECT NO:	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: NOT TO SCALE

SEC–RIS

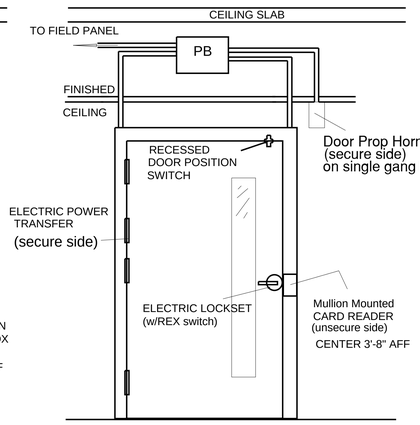
CONFORMED SET: 05/29/2015



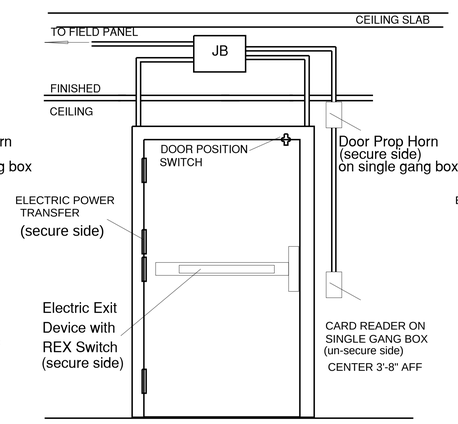
SINGLE WOOD/METAL DOOR
TYPE A



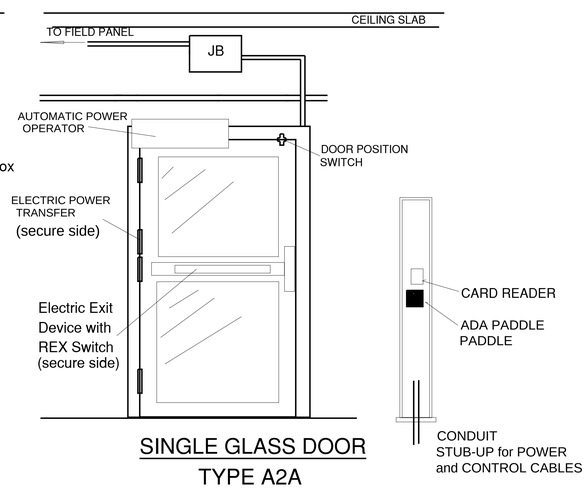
SINGLE METAL/WOOD DOOR
TYPE A1



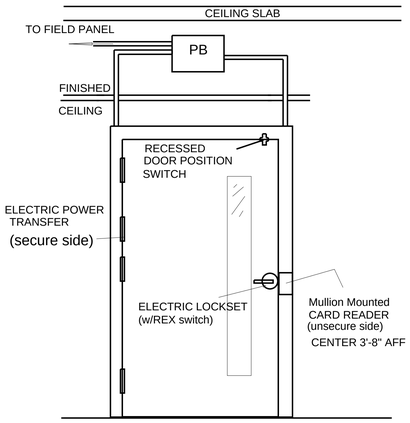
SINGLE METAL/WOOD DOOR
TYPE A1A



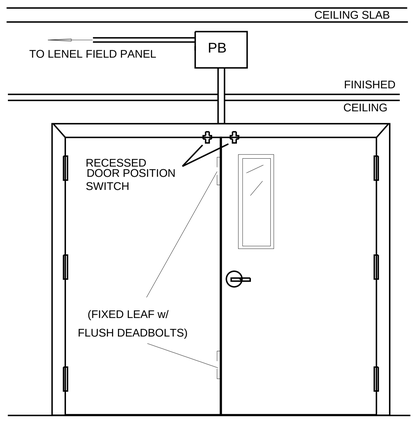
SINGLE METAL/WOOD DOOR
TYPE A2



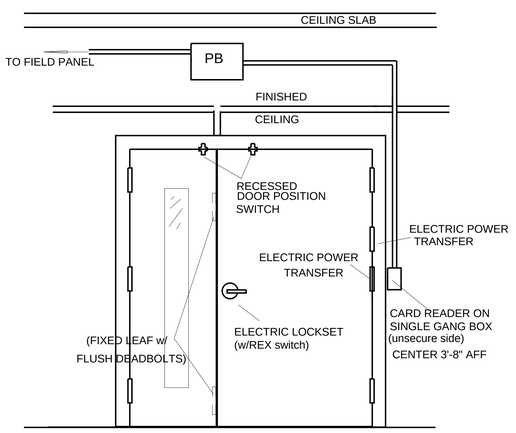
SINGLE GLASS DOOR
TYPE A2A



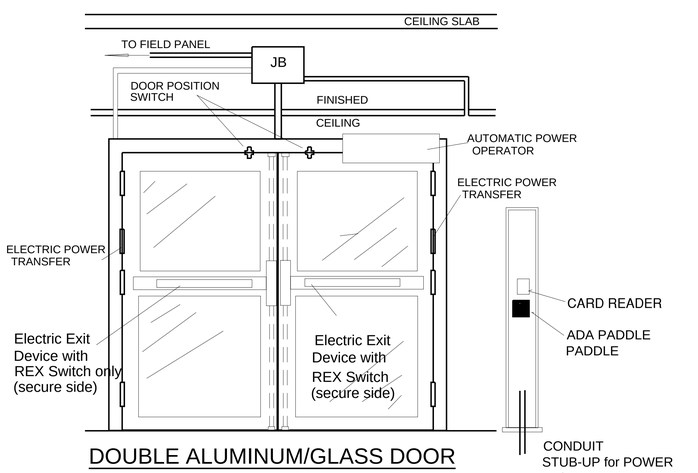
SINGLE METAL/WOOD DOOR
TYPE A3



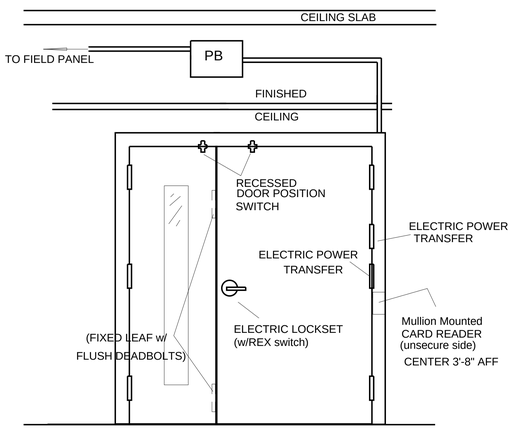
DOUBLE METAL/WOOD DOOR
TYPE B



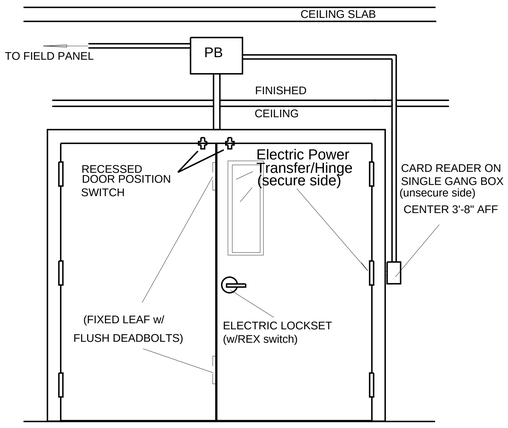
DOUBLE METAL/WOOD DOOR
TYPE B1



DOUBLE ALUMINUM/GLASS DOOR
TYPE B2



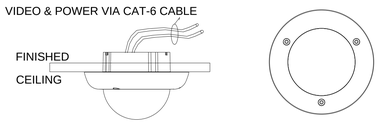
DOUBLE METAL/WOOD DOOR
TYPE B2A



DOUBLE METAL/WOOD DOOR
TYPE B3

MINI DOME CAMERA

CEILING HOUSING



CONDUIT

TYPICAL 3/4". REQUIRED FOR STUB-UPS IN DRY WALL CONSTRUCTION AND, BELOW 12ft, WHERE CABLE WOULD OTHERWISE BE EXPOSED.

RIGID CONDUIT FOR ALL OUTDOOR APPLICATIONS.

PLENUM RATED CABLE REQUIRED.

UNIVERSITY OF CONNECTICUT

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ISSUE/REVISION:

NO.	DATE	COMMENTS

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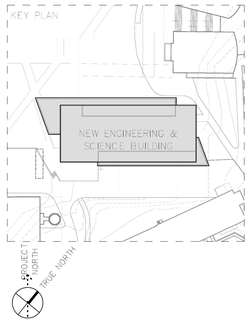
KEY PLAN



Project:

Drawing Title:

SECURITY DOOR AND DEVICE DETAIL

PROJECT NO:	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: NOT TO SCALE

SEC–DET

CONFORMED SET: 05/29/2015

UCONN

SECURITY HARDWARE SCHEDULE

Security Hardware for Typical Doors

(see "Details" - drawing SEC-DET)

Det. #	Door Type	DPS	Acc. Dev.	Electric Lock Type	Egress Dev.	Other Hardware	REMARKS
A	Wood/HM	1	---	Door Position Switch	---	Manual	---
A1	Wood/HM	1	CR	Electrified Lockset (EL)	REX	Power Transfer	Integral REX switch/lock
A1A	Wood/HM	1	CR	Electrified Lockset (EL)	REX	Power Transfer & Door Prop Horn	Card reader mounted on door mullion
A2	Wood/HM	1	CR	Electrified Exit Device (ED1)	REX	Power Transfer & Door Prop Horn	Integral REX switch/lock
A2A	Glass	1	CR	Electrified Exit Device (ED1)	REX	Power Transfer & Automatic ADA Operator	ADA Paddles, CR & Paddle on Bollard
A3	Wood/HM	1	CR	Electrified Lockset (EL)	REX	Power Transfer	Card reader mounted on door mullion
B	Wood/HM	2	---	---	---	---	---
B1	Wood/HM	2	CR	Electrified Lockset (EL)	REX	Power Transfer	Integral REX switch/lock
B2A	Wood/HM	2	CR	Electrified Lockset (EL)	REX	Power Transfer	Card reader mounted on door mullion
B2	Glass	2	CR	(2) Electrified Exit Device (ED1)	REX	Power Transfer & Automatic ADA Operator	ADA Paddles, CR & Paddle on Bollard
B2A	Glass	2	CR	(1) Electric Strike with Panic (SP)	MD	---	Blumcraft Hardware
B3	Wood/HM	2	CR	Electrified Lockset (EL)	REX	Power Transfer	Integral REX switch/lock

Schedule Key

Door #	LOCATION / ROOM #	Det. #	Door Type	Door Matl	DPS	Access Dev.	Access Op'n	Elec. Lock Dev.	Elec. Lock Op'n	Egress Dev.	Egress Op'n	Other Hardware	REMARKS

Detail Number see above and Detail Drawings SEC-DET

Door Type
SGL = Single Leaf
DBL = Double Leaf
OH=Overhead
HAT=Hatch

Door/Frame Material
G = Glass/Metal Frame
WD=Wood
HM = Hollow Metal
H = Herculite
R = Rotary

Door Position Switch (Qty.)
( ) = Integral w/Mag.Lock

Access Device
CR = Card Reader
CR = Card Reader
KS=Horn Keyswitch
KP=Keypad

Access Device Operation
s = shunt DPS
u = unlock
o = operate Mantrap door

Electric Lock/Control Device
EL= Electrified Mortise Lock
ED1=Electrified Exit Device
ED2=Manual Exit Device
ED3=Electrified Exit Device with Concealed Rods
ES=Electric Strike

Egress Device
REX=Switch in lock
MD = Motion Detector
DR=Door Relase Button
MREX=Manual Exit

Egress Device Operation
s = shunt DPS
u = unlock

Lock Operation
fsec = Fail secure
fsaf = Fail safe
f = Connect to
fsaf = Fail safe
Fire/Alarm system

Other Hardware
TX = Transfer Hinge (8-wire)/Power Transfer
H=Door Prop Horn
IC =Intercom Station
FSI=Fire System Interface
MD = Motion Detector
DR = Door Release Button

SECURITY HARDWARE DOOR SCHEDULE

Door #	LOCATION / ROOM #	Det. #	Door Type	Door Matl	DPS	Access Dev.	Access Op'n	Elec. Lock Dev.	Elec. Lock Op'n	Egress Dev.	Egress Op'n	Other Hardware	Door Hardware Set
Basement													
STBB.1	Stair Entrance - B	A1	SGL	HM	1	CR	s,u	EL	fsaf	REX	s	TX, FSI	E3
STAB.2	Stair Entrance - B	A1	SGL	HM	1	CR	s,u	EL	fsaf	REX	s	TX, FSI	E3B
B01.1	Utility Tunnel	A1	SGL	HM	1	CR	s,u	EL	fsec	REX	s	TX	Door manufacturer
First Floor													
V1B.1	West Lobby Entrance	A2A	SGL	GL	1	CR	s,u	ED1	fsec	REX	s	Automatic Door Operator	E7
V1A.1	North Lobby Entrance	B2	DBL	GL	2	CR	s,u	ED3	fsec	REX	s	Automatic Door Operator	E7
S1B.1	Stair Entrance - B	A1A	SGL	HM	1	CR	s,u	EL	fsaf	REX	s	TX, HORN & FSI	E3B
S1B.2	Stair Entrance - B	A2	SGL	HM	1	CR	s,u	EL	fsec	REX	s	TX, HORN	E4
110.1	North Area Entrance	B1	DBL	WD	2	CR	s,u	EL	fsec	REX	s	TX	E2A
114.2	South Area Entrance	B1	DBL	WD	2	CR	s,u	EL	fsec	REX	s	TX	E2A
116A.1	IT/Security Closet	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
114B.1	ITAR Controller Lab	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
110A.1	ITAR Controller Lab	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
116.1	Loading Dock Entrance	B3	DBL	HM	2	CR	s,u	EL	fsec	REX	s	TX	E2A
116.2	Loading Dock Outer Entrance	B	DBL	---	2	---	---	---	---	---	---	---	E2
S1A.3	Stair A Outer Exit	A	SGL	---	1	---	---	---	---	---	---	---	7A
101A.1	Smart Bldg Office	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1
106.1	Virtual Reality Space	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
107.1	Cyber Physics	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
107.2	Cyber Physics	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
108.1	Water Lab	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
108.2	Water Lab	B2A	DBL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
107.3	Cyber Physics	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
107.4	Cyber Physics	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
106.2	Virtual Reality Space	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
Second Floor													
C2B.1	Elevator Lobby Entrance	B2A	DBL	GL	2	CR	s,u	EL	fsec	MD	s	TX	E2B
S2B.1	Stair Entrance - B	A1A	SGL	---	1	CR	s,u	EL	fsaf	REX	s	TX, HORN & FSI	E3B
216.1	South Area Entrance	B1	DBL	---	2	CR	s,u	EL	fsec	REX	s	TX	E2A
220.1	IT/Security Closet	A1	SGL	---	1	CR	s,u	EL	fsec	REX	s	TX	E1A
206A.1	Office	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1
206B.1	Office	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1
206C.1	Office	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1
206D.1	Office	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1
206E.1	Office	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1
206F.1	Office	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
209C.1	Lab Support	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
209D.1	Tissue Culture	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
209E.1	Lab Support	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
209G.1	Lab Support	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
210B.1	Lab Support	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
212A.1	Animal Procedure	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
216D.1	Tissue Culture	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
216E.1	Confocal	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
216F.1	Lab Support	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
216G.1	Lab Support	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
216I.1	Glass wash	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
Third Floor													
C3B.2	Elevator Lobby Entrance	B2A	DBL	WD	2	CR	s,u	EL	fsec	REX	s	TX	E2B
S3B.1	Stair Entrance - B	A1A	SGL	HM	1	CR	s,u	EL	fsaf	REX	s	TX, HORN & FSI	E3B
320.1	IT/Security Closet	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1B
322.1	CGI Server	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1B
305A.1	Office	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1
306A.1	Office	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1
306B.1	Office	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1
306C.1	Office	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1
306D.1	Office	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1
306E.1	Office	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1
305A.1	Office	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1
309BB.1	Office	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1
309BC.1	Office	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1
309C.1	CGI Tissue culture	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
309D.1	CGI Sequensing	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1
309E.1	Tissue Culture	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
309F.1	Lab Support	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
309G.1	Lab Support	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
309M.1	Lab Support	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
316.1	South Area Entrance	B1	DBL	WD	2	CR	s,u	EL	fsec	REX	s	TX	E2B
316D.1	Tissue Culture	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
316E.1	Confocal	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
316F.1	Lab Support	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
316G.1	Lab Support	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
316L1	Glass wash	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
Fourth Floor													
C4B.1	Elevator Lobby Entrance	B2A	DBL	WD	2	CR	s,u	EL	fsec	REX	s	TX	E2B
S4B.1	Stair Entrance - B	A1A	SGL	HM	1	CR	s,u	EL	fsaf	REX	s	TX, HORN & FSI	E3
416.2	South Area Entrance	B1	DBL	WD	2	CR	s,u	EL	fsec	REX	s	TX	E2A
420.1	IT/Security Closet	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
406.1	Dry Lab	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
407.1	Dry Lab	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
409B.1	Tissue Culture	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1
409D.1	Lab Support	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
411.2	Imaging/Optical	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
409E.1	Bacterial Culture	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
409F.1	Lab Support	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
409I.1	Tissue Culture	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1
415.1	Wet Lab	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
416B.1	Tissue Culture	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1
416E.1	Confocal	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
416F.1	Lab Support	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1
416I.1	Tissue Culture	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1
Fifth Floor													
C5B.1	Elevator Lobby Entrance	B2A	DBL	WD	2	CR	s,u	EL	fsec	REX	s	TX	E2B
S5B.1	Stair Entrance - B	A1A	SGL	HM	1	CR	s,u	EL	fsaf	REX	s	TX, HORN & FSI	E3
506.1	Dry Lab	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
507.1	Dry Lab	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
517.2	South Area Entrance	B1	DBL	WD	2	CR	s,u	EL	fsec	REX	s	TX	E2A
521.1	IT/Security Closet	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1B
511.1	Lab Support	A1	DBL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
511.2	Lab Support	A1	DBL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
512.1	Lab Support	A1	DBL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
512.2	Lab Support	A1	DBL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
509C.1	Chemical Storage	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
517B.1	Chemical Storage	A1	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	1A
516.1	Dry Lab	A3	SGL	WD	1	CR	s,u	EL	fsec	REX	s	TX	E1A
Penthouse													
S6B.1	Stair Entrance - B	A1	e	HM	1	CR	s,u	EL	fsaf	REX	s	TX, FSI	E3
S6A.1	Stair Entrance - A	A1	SGL	HM	1	CR	s,u	EL	fsaf	REX	s	TX, FSI	E3

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ISSUE/REVISION:

NO.	DATE	COMMENTS

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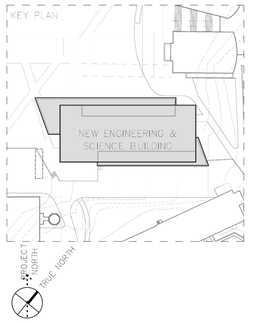
KEY PLAN



Project:

Drawing Title:

SECURITY DOOR HARDWARE SCHEDULE

PROJECT NO:	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: NOT TO SCALE

SEC–DET1

CONFORMED SET: 05/29/2015

DRAWING LIST

Sheet Number	50% Construction Documents: 30 JUNE 2014	90% Construction Documents: 26 SEPT 2014	100% Progress Set: 20 Nov. 2014	100% Construction Documents 22 Dec. 2014	Bid Documents: 20 Feb 2015	Sheet Name
AV000	√	√	√	√	√	AV Drawing List and Responsibility Schedule
AV001	√	√	√	√	√	AV General Notes and Legend
AV101	√	√	√	√	√	FLOOR 1 & 2 OVERALL PLAN AV SCOPE
AV102	√	√	√	√	√	FLOOR 3 & 4 OVERALL PLAN AV SCOPE
AV103	√	√	√	√	√	FLOOR 5 OVERALL PLAN AV SCOPE
AV200	√	√	√	√	√	101 SMART BUILDING DISPLAY
AV201	√	√	√	√	√	110B MEETING ROOM
AV202	√	√	√	√	√	114A MEETING ROOM
AV203	√	√	√	√	√	114C MEETING ROOM
AV204	√	√	√	√	√	121 GATHERING/DISPLAY PLAN AND ELEVATIONS
AV204.1	√	√	√	√	√	121 GATHERING/DISPLAY SPACE CONDUIT RISER
AV205	√	√	√	√	√	405 & 505 MEETING/BREAKOUT SPACE ROOM
AV206		√	√	√	√	108 WATER LAB PLAN, RCP, & ELEVATIONS
AV206.1				√	√	108 WATER LAB CONDUIT RISER & SECTION
AV208				√	√	106 VIRTUAL REALITY LAB PLAN & RCP
AV208.1				√	√	106 VIRTUAL REALITY LAB CONDUIT RISER
AV209				√	√	107 CYBER PHYSICS LAB PLAN & RCP
AV209.1				√	√	107 CYBER PHYSICS LAB CONDUIT RISER
AV210					√	205- CONFERENCE ROOM
AV211					√	MEETING/PANTRY & CGI COMPUTATIONAL TRAINING ROOM
AV212					√	309BA- CGI LAB TRAINING ROOM
AV213					√	DIGITAL SIGNAGE PLANS & CONDUIT RISERS
AVA		√	√	√	√	AV DETAILS
AVB			√	√	√	AV DETAILS
AVC					√	AV DETAILS

AUDIO VISUAL AND RELATED WORK RESPONSIBILITY SCHEDULE

G.T. = GENERAL TRADES

	SUPPLIED BY					INSTALLED BY					
	G.C. / G.T.	E.C.	A.V.C.	CLIENT	OTHER	N/A	G.C.	E.C.	A.V.C.	CLIENT	OTHER	N/A	NOTES
CEILING MOUNTED EQUIPMENT													
PROJECTION SCREENS	✔						✔						
PROJECTION SCREENS LVC AND SWITCH		✔						✔					
VIDEO PROJECTOR HARD POINTS	✔						✔						
VIDEO PROJECTOR MOUNTS			✔						✔				
PLASMA/LCD MONITOR ENCLOSURE						✔						✔	
PLASMA/LCD MONITOR CEILING MOUNTS						✔						✔	
PLASMA/LCD MONITORS						✔						✔	
SPEAKER MOUNTING HARDWARE AND BACKBOX		✔						✔					PRE CONSTRUCTION BRACKET BY EC/ SPEAKERS BY AVC
SPEAKER RIGGING		✔						✔					
MICROPHONES						✔						✔	
MICROPHONES TERMINATED						✔						✔	
AV CAMERA HARDPOINTS						✔						✔	
AV CAMERA MOUNT						✔						✔	
LIGHT RIGGING		✔						✔					
WALL MOUNTED EQUIPMENT													
SCREENS						✔						✔	
WALL AV CAMERA MOUNT			✔						✔				
PLASMA/LCD DISPLAYS			✔						✔				
PLASMA/LCD WALL MOUNT			✔						✔				
PLASMA/LCD BLOCKING AND BACK BOX	✔						✔						PAC BOX TO BE PROVIDED BY THE EC
PROGRAM SPEAKERS			✔						✔				
PROGRAM SPEAKERS ENCLOSURES						✔						✔	
PROGRAM SPEAKER CUT OUTS	✔						✔						
PROGRAM SPEAKER GRILLE FABRIC			✔						✔				
VIDEO WALL OPENING/STRUCTURE						✔						✔	
VIDEO WALL BLOCKING						✔						✔	
TABLE/LECTERN MOUNTED DEVICES													
MICROPHONES			✔						✔				AVC TO PROVIDE SAMPLE MICROPHONE TO TABLE MANUFACTURER FOR SIZING
MICROPHONE TABLE HOLE CUTOUTS				✔						✔			TABLE MICROPHONE HOLES BY TABLE MANUFACTURER
MICROPHONES TERMINATED			✔						✔				
FLOOR BOXES		✔						✔					
FLOOR BOX AV TERMINATIONS			✔						✔				
POWER		✔						✔					
AV DEVICE CUTOUTS	✔						✔						
INTERFACES			✔						✔				
ELECTRICAL (FOR AV REQUIREMENTS)													
AV ELECTRICAL OUTLETS AND CONNECTORS		✔						✔					
AV ELECTRICAL CONDUITS AND PULL STRINGS		✔						✔					
AV LOW VOLTAGE CABLES			✔						✔				
FLOOR CONCRETE POUR BOX OR FLOOR CORES		✔						✔					
FLOOR BOXES OR POKE-THRU DEVICES		✔						✔					
FLOOR BOX DIVIDERS		✔						✔					
FLOOR BOX AC OUTLETS AND TELE/DATA PLATES		✔						✔					
AV CONNECTORS			✔						✔				
AV INTERCONNECT WALL PLATES			✔						✔				
LIGHTING DIMMING SYSTEMS													
DIMMING EQUIPMENT		✔						✔					ALL LIGHTING AND DIMMER SYSTEMS TO BE SPECIFIED BY LIGHTING CONSULTANT
DIMMING LVC FOR AV INTERFACE		✔						✔					
DIMMING LVC PROGRAMMED		✔						✔					
LIGHTING SCENES AND ZONE LEVELS CONFIGURED		✔						✔					TO BE COORDINATED WITH LIGHTING CONSULTANT
MOTORIZED DRAPES / SHADES													
MOTOR LVC		✔						✔					SHADES INCLUDED TYP.
MOTOR LVC CABLE		✔						✔					SHADES INCLUDED TYP.
MOTOR LVC CABLE TERMINATED		✔						✔					SHADES INCLUDED TYP.
MOTOR LVC PROGRAMMED		✔						✔					SHADES INCLUDED TYP.
PERMANENT FURNISHINGS													
LECTERN				✔							✔		
EQUIPMENT CREDENZAS				✔							✔		
STORAGE CUPBOARD				✔							✔		
VOICE NETWORK													
BACK BOX, CONDUIT, AND PULL STRINGS		✔						✔					
ISDN DISTRIBUTION FOR VIDEO TELECONFERENCING					✔							✔	
POTS 600Ω ANALOG TELEPHONE SYSTEM					✔							✔	
PBX TELEPHONE DISTRIBUTION					✔							✔	
PBX TELEPHONE/VOICE SYSTEMS					✔							✔	
ISDN PROTOCOL					✔							✔	
SIP COMPATIBLE VOIP SYSTEM			✔							✔			
DATA NETWORK													
BACK BOX, CONDUIT, AND PULL STRINGS		✔						✔					
TELECOMMUNICATION CABLES		✔						✔					
TELECOMMUNICATION CONNECTORS TERMINATED		✔						✔					
TELECOMMUNICATION PLATES		✔						✔					
NETWORK SERVICES			✔							✔			
REPEATERS AND HUBS FOR DISTRIBUTION			✔							✔			
HIGH SPEED DATALINKS			✔							✔			
PLATES		✔						✔					
CABLES		✔						✔					
CONNECTORS		✔						✔					
BROADBAND VIDEO													
BACK BOX, CONDUIT, AND PULL STRINGS		✔						✔					
COAX RF PLATES			✔							✔			
COAX RF CABLE			✔							✔			
COAX RF DISTRIBUTION AMPLIFIERS			✔							✔			
COAX RF ISOLATION TAPS AND TERMINATORS			✔							✔			
	G.C.	E.C.	A.V.C.	CLIENT	OTHER	N/A	G.C.	E.C.	A.V.C.	CLIENT	OTHER	N/A	
	INSTALLED BY						SUPPLIED BY						

GENERAL:
1. AV DRAWINGS ARE TO BE CLEARLY COORDINATED WITH ARCHITECTURAL, ELECTRICAL, AND LIGHTING PLANS.

2. GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR SHOULD REVIEW THE AV RESPONSIBILITY SCHEDULE THOROUGHLY.

3. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER TO ALL DEVICES.

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NO.	DATE	COMMENTS

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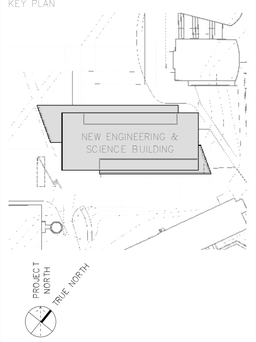
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

Drawing Title:

AV Drawing List and Responsibility Schedule

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 12" = 1'-0"

AV000

CONFORMED SET: 05/29/2015

GENERAL NOTES

GENERAL:

1. AV DRAWINGS, COMMUNICATIONS DRAWINGS, POWER PLAN DRAWINGS AND ARCHITECTURAL DRAWINGS SHOULD BE CAREFULLY REVIEWED SIMULTANEOUSLY TO AVOID UNDER-COUNTING OR OVER-COUNTING DEVICES.

2. QUANTITIES GIVEN ON AV DETAIL PAGES AND AV ROOM DRAWINGS MUST BE CONFIRMED BY EACH DISCIPLINE WHEN REVIEWING THE AV DRAWINGS. THE QUANTITIES GIVEN ARE PRELIMINARY AND MAY NOT REFLECT ALL LAST MINUTE CHANGES. ANY DISCREPANCIES SHOULD BE REVIEWED WITH THE OWNER .

3. ALL SPARE/FUTURE CONDUITS ARE TO HAVE PULL STRINGS. ENSURE PULL STRINGS ARE TIED OFF AT BOTH ENDS OF THE CONDUIT RUN.

4. FINAL LOCATION AND COORDINATION OF ALL FLOOR BOXES TO BE VERIFIED IN FIELD WITH ARCHITECT PRIOR TO INSTALLATION.

5. ALL TELE/DATA, NETWORK, AND 120V AC SERVICES INDICATED ON AV DRAWINGS ARE FOR AV USE ONLY. FOR ALL OTHER REQUIREMENTS REFER TO COMMUNICATIONS AND POWER PLANS.

6. CEILING MOUNTED PROJECTORS NEED TO BE ISOLATED FROM BUILDING STRUCTURES OR MECHANICAL DEVICES THAT MAY INDUCE VIBRATION TO VIDEO PROJECTORS.

ACOUSTICAL:

1. AN OVERALL DESIGN GOAL FOR AN NC-25 TO NC-30 NOISE CRITERIA RATING IS DESIRABLE.

2. AMBIENT NOISE FROM ALL IN-ROOM AND EXTERNAL NOISE SOURCES NOT TO EXCEED 40dB A-WEIGHTED.

3. TO PREVENT SOUND LEAKAGE INTO THESE ROOMS FROM ADJOINING SPACES, ALL WALLS SHOULD EXTEND TO THE DECKING ABOVE. ALL PENETRATIONS LEAVING THE SPACE SHOULD BE SEALED AS REQUIRED. THE SPACE ABOVE THE CEILING TILES MAY ALSO NEED CONSIDERATION AND TREATING WITH FIBERGLASS BATTING.

4. MINIMUM SOUND TRANSMISSION CLASS FOR WALL CONSTRUCTION TO BE OF AN STC-45 RATING. DOORS INTO THE SPACE TO HAVE A MINIMUM RATING OF STC-40 TO STC-55. WALL PARTITIONS (WHERE APPLICABLE) TO HAVE A MINIMUM RATING OF STC-55 TO STC-65.

5. ACOUSTICAL REFLECTIONS OFF ALL GLASS SURFACES SHOULD BE ADDRESSED WITH APPROPRIATE WINDOW TREATMENTS.

6. MAXIMUM REVERBERATION TIME SHOULD NOT EXCEED .6 SECONDS.

7. MECHANICAL DEVICES SUCH AS HEAT EXCHANGERS AND VENTILATION UNITS SHOULD NOT BE LOCATED IN THE CEILING ABOVE THE IMMEDIATE SPACE OR THE SURROUNDING AREAS.

8. AIR VELOCITY AT SUPPLY REGISTER NOT TO EXCEED 425 FEET PER MINUTE. AIR VELOCITY AT RETURN GRILLE NOT TO EXCEED 510 FEET PER MINUTE.

FURNISHINGS:

1. ALL TABLES AND CREDENZAS TO BE PROVIDED WITH INTEGRATED POWER AND CABLE MANAGEMENT.

2. CHOOSE FURNITURE WITHOUT GLOSSY TOPS OR STRONG COLORS. THE BEST TABLE TOP SURFACE IS A FLAT SATIN FINISH.

3. COORDINATE ALL FLOOR BOX OR FLOOR CORING LOCATION WITH TABLE MANUFACTURER AND ARCHITECT.

4. EQUIPMENT RACKS IN A CREDENZA NEED A MINIMUM DEPTH OF 26"

5. EQUIPMENT RACKS IN A CREDENZA NEED A MINIMUM OF 40" OF ROOM FOR TWO SIDE BY SIDE RACKS IN ONE COMPARTMENT WITH A CUT OUT TO THE NEXT COMPARTMENT FOR CABLE MANAGEMENT TO A THIRD RACK, IF NECESSARY.

6. CREDENZA EQUIPMENT RACKS WILL REQUIRE VENTILATION FROM THE FRONT TOE KICK TO THE REAR TOP BACK.

7. WALL MOUNTED AV DEVICES SUCH AS LCD MONITORS, VIDEO CAMERAS, ETC., CANNOT PROTRUDE MORE THAN 4" OFF OF WALLS SURFACE TO MEET ADA COMPLIANCE. PROVIDE RECESS OPENING OR LOCATED FURNITURE SUCH AS A CREDENZA, BELOW THE WALL MOUNTED AV DEVICE.

LIGHTING:

1. LIGHTING FIXTURES TO BE SELECTED WITH ELECTRONIC DIMMING BALLASTS AND TO BE CIRCUITED IN ZONES THAT ALLOW FOR ANY DISPLAYS TO BE PROTECTED FROM AMBIENT LIGHT WHEN DESIRABLE.

2. LIGHTING FIXTURES SHOULD BE SELECTED FOR CONTROL AND DIRECTIONALITY, ALLOWING THE TABLE TO BE PROPERLY AND EVENLY LIT, WITHOUT AFFECTING THE DISPLAY'S CONTRAST LEVELS. 85% DIFFUSED, 15% DIRECTIONAL.

3. RS-232 LIGHTING INTERFACE TO BE PROVIDED BY OTHERS TO ALLOW THE AV CONTROL SYSTEM TO SELECT LIGHTING PRESET SCENES.

4. ON/OFF ENTRY MODULES SHOULD BE PROVIDED AT DOORWAY ENTRANCES.

5. PENDANT LIGHTING SHOULD BE AVOIDED AS IT MAY CONFLICT WITH THE IMAGE CONE OF THE CEILING MOUNTED PROJECTOR (WHERE APPLICABLE).

6. DRAPES/SHADES TO BE PROVIDED WITH RS-232 INTERFACE FOR CONTROL FROM AV SYSTEM. LIMITS FOR DRAPES/SHADES TO BE SET BY OTHERS.

ELECTRICAL:

1. ALL AUDIO AND VIDEO AC OUTLETS SHOULD HAVE ITS OWN DEDICATED PHASE, NEUTRAL AND ISOLATED GROUND CONDUCTORS HOME RUN TO THE PANEL FROM WHICH IT IS FED.

2. 120V AC SERVICES FOR EQUIPMENT RACKS AND VIDEO PROJECTORS TO SHARE THE SAME PHASE.

3. COORDINATE FINAL LOCATIONS OF SWITCHES, AV-PLATES AND J-BOXES WITH WALL TREATMENT AND SURFACES.

4. POWER AND LAN INDICATED ON AV DRAWINGS FOR AV PURPOSES ONLY

VIDEO CONFERENCING NOTES

GENERAL:

1. THESE NOTES APPLY TO ALL SPACES WITH VIDEO-CONFERENCING CAPABILITIES DAY ONE AND THOSE WITH FUTURE VIDEO-CONFERENCING CAPABILITIES.

FURNISHINGS:

1. TABLES IN MEDIUM TO LARGE VIDEO-CONFERENCING SPACES SHOULD ACCOMMODATE AN OPEN VIEW OF ALL PARTICIPANTS WITHOUT NEEDING TO LEAN OVER THE TABLE. TRIANGLE OR TRAPEZOIDAL SHAPES ARE IDEAL.

2. WHITE OR VERY LIGHT FURNITURE WILL REFLECT TOO MUCH LIGHT UPWARD INTO PEOPLES FACES. HIGHLY REFLECTIVE FURNITURE WILL REFLECT GLARE FROM THE CEILING FIXTURES INTO PEOPLES FACES. FOR BEST RESULT USE FURNITURE WITH MEDIUM TONES, GRAY TAN OR WOOD TABLES WORK WELL WITH A MATTE FINISH.

3. CHAIRS SHOULD NOT ROCK OR ROLL, TO AVOID DISTRACTIONS DURING A VIDEO-CONFERENCE.

4. WALL COLOR WITHIN THE FIELD OF VIEW OF THE CAMERA HAS A SIGNIFICANT IMPACT ON FAR-END PERCEPTION OF VIDEO QUALITY. LIGHT GRAY TO BLUE COLORS WORK BEST. AVOID LARGE EXPANSES OF WHITE. THIS ALSO APPLIES TO ANY DRAPES/SHADES IN THE CAMERAS VIEW.

4.A. RECOMMENDED COLORS: LILAC, GRAY, BLUE/GRAY, LIGHT BLUE, LIGHT BLUE/LILAC

LIGHTING:

1. LIGHTING SHOULD MEASURE 35-40 FOOT CANDLES AT A 4 FOOT VERTICAL PLANE AT THE TABLE WITH A COLOR TEMPERATURE OF 3500 KELVIN.

2. MAIN LIGHTS OR "KEY" LIGHTING SHOULD BE CAST AT ABOUT A 45° ANGLE TO THE PARTICIPANTS, RESULTING IN SHADOWS THAT DEFINE FACIAL FEATURES.

3. LIGHTING IN THESE SPACES SHOULD HAVE A HIGHER LEVEL OF CONTROL TO MAXIMIZE THE LIGHTING SCENES FOR VIDEO- CONFERENCING.

4. BACKGROUND LIGHTING SHOULD BE UNIFORM AND AVOID DARK SPOTS AND BRIGHT AREAS TO AVOID LIGHT DISTORTION ON PEOPLES FACES. WALL WASHER LUMINARIES ARE RECOMMENDED FOR BACK AND SIDE WALLS.

5. STANDARD FLUORESCENT FIXTURES, WALL SCONCES AND OTHER BRIGHT LIGHT SOURCES THROW A GREAT DEAL OF GLARE AT THE CAMERA, CAUSING THE CEILING TO REGISTER AS A BIG WHITE SPOT.

6. WINDOWS SHOULD ALWAYS BE SHADED DURING VIDEO-CONFERENCE, PREFERABLY WITH BLACKOUT SHADES TO AVOID PROBLEMS WITH ROOM LIGHTING RATIOS.

STANDARD ABBREVIATIONS

ABF	ABOVE
AC	ALTERNATING CURRENT
ACFL	ACCESS FLOOR
ACT	ACOUSTICAL TILE
ADD	ADDENDUM
AFC	ABOVE FINISH CEILING
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
AP	ACCESS PANEL
APPROX	APPROXIMATE
ASC	ABOVE SUSPENDED CEILING
AUTO	AUTOMATIC
AV	AV INTERFACE
AVC	AUDIO VISUAL CONTRACTOR
AWG	GAUGE
BEL	BELOW
BOT	BOTTOM
BS	BOTH SIDES
BTU	BRITISH THERMAL UNITS
C	CONDUIT
CATV	COMMUNITY ANTENNA TV
CB	CEILING BOX
CL	CENTERLINE
CLG	CEILING
CM	CENTIMETER
COL	COLUMN
CONF	CONFERENCE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
D	DATA
dB	DECIBEL
DC	DIRECT CURRENT
DIAG	DIAGONAL
DIAM	DIAMETER
DIM	DIMENSION

STANDARD ABBREVIATIONS

DP	DISPLAYPORT
DR	DOOR
DTL	DETAIL
DVD	DIGITAL VIDEO DISC
DVI	DIGITAL VIDEO INTERFACE
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION
ELEC	ELECTRICAL
ENC	ENCLOSURE
EQ	EQUAL
EQUIP	EQUIPMENT
EXG	EXISTING
FB	FLOOR BOX
FC	FLOOR CORE
FHD	FULL HD
FLR	FLOOR
FO	FINISH OPENING
FP	FRONT PROJECTION
FUT	FUTURE
GA	GAUGE
GC	GENERAL CONTRACTOR
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
H	HEIGHT
HD	HIGH DEFINITION
HDTV	HIGH DEFINITION TELEVISION
HOR	HORIZONTAL
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
INCL	INCLUDED
INT	INTERIOR
IPTV	INTERNET PROTOCOL TELEVISION
IR	INFRARED
ISDN	INTEGRATED SERVICES DIGITAL NETWORK
J	JUNCTION BOX
JST	JOIST

STANDARD ABBREVIATIONS

KO	KNOCKOUT
L	LEFT
LAN	LOCAL AREA NETWORK
LBL	LABEL
LC	LIGHTING CONTROL
LVC	LOW VOLTAGE CONTROL
M	METER
MANUF	MANUFACTURER
MAX	MAXIMUM
MD	MOUNTING DISTANCE
MECH	MECHANICAL
MIN	MINIMUM
MISC	MISCELLANEOUS
MULL	MULLION
MWK	MILLWORK
NIC	NOT IN CONTRACT
NR	NOISE REDUCTION
NTS	NOT TO SCALE
NTSC	NATIONAL TV SYSTEM COMMITTEE
OFE	OWNER FURNISHED EQUIPMENT
OH	OVERHEAD
OPG	OPENING
PED	PEDESTAL
POTS	PLAIN OLD TELEPHONE SERVICE
PROJ	PROJECTOR
QXGA	QUAD EXTENDED GRAPHICS ARRAY
R	RIGHT
REF	REFERENCE
REM	REMOVE
REV	REVISION
RF	RADIO FREQUENCY
RM	ROOM
RO	ROUGH OPENING
SCH	SCHEDULE
SEC	SECTION
SIM	SIMILAR

STANDARD ABBREVIATIONS

SP	SOUNDPROOF
SPEC	SPECIFICATION
SPK	SPEAKER
STD	STANDARD
SUS	SUSPENDED
SVGA	SUPER VIDEO GRAPHICS ADAPTER
SW	SWITCH
SYS	SYSTEM
TBD	TO BE DETERMINED
TD	THROW DISTANCE
TEL	TELEPHONE
TEL/COM	TELECOMMUNICATIONS
TV	TELEVISION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UXGA	ULTRA EXTENDED GRAPHICS ARRAY
V ac	VOLTAGE AC
V dc	VOLTAGE DC
VERT	VERTICAL
VGA	VIDEO GRAPHICS ADAPTER
VTC	VIDEO TELECONFERENCING
W	WATTS
W/O	WITHOUT
WH	WALL HUNG
WQXGA	WIDESCREEN QUAD EXTENDED GRAPHICS ARRAY
WUXGA	WIDESCREEN ULTRA EXTENDED GRAPHICS ARRAY
WXGA	WIDESCREEN EXTENDED GRAPHICS ARRAY
XGA	EXTENDED GRAPHICS ARRAY

AV Cable Type Legend

Cable Code	Cable Function	Cable Type	Manufacturer and Model	O.D.	Area
3G-SDI	3G-SDI CABLE (PLENUM)	RG-11/U	BELDEN 7731A	0.4	0.126
A	AUDIO/MICROPHONE (PLENUM)	2COND/20AWG/SH/PL	WESTPENN 25292B	0.138	0.015
AXLINK	AXLINK (PLENUM)	2C 22AWG SH/2C 18AWG/PL	BELDEN 1502P	0.205	0.033
CAT	CAT-5e (PLENUM)	4TW. PR. /24AWG/SH/PL	BELDEN 1533P	0.19	0.028
CAT-6	CAT-6a (PLENUM)	4TW. PR. /23AWG/SH/PL	BELDEN 10GX13	0.295	0.0684
CATV	CABLE TO (PLENUM) DROP	RG-6U CATV PLENUM	BELDEN 9116P	0.235	0.043
CRESNET	CRESNET (PLENUM)	2C 22AWG SH/2C 18AWG/PL	BELDEN 1502P	0.205	0.033
C	REMOTE CONTROL DATA BUS (PLENUM)	2TW.PR./18GA/SH/PL	WESTPENN 25440B	0.253	0.05
DISPLAYPORT	PLENUM HDMI WITH DISPLAYPORT ADAPTER	15C/24AWG/SH/PL	ATLONA ATP-14029	0.354	0.098
DM-8G	DIGITALMEDIA 8G CABLE (PLENUM)	4TW.PR.24GA/SH/PL	CRESTRON DM-CBL-8G-P	0.244	0.047
DM-CAT	DIGITALMEDIA CABLE (PLENUM)	4TW.PR/1TW.PR./4TW.PR/SH/PL	CRESTRON DM-CBL-P	0.58	0.264
DTP	DIGITAL AND SKEW-FREE CABLE (PLENUM)	8COND/26AWG/SH/PL	EXTRON 22-215-03	0.235	0.043
DVI	DVI VIDEO CABLE (PLENUM)	15C/24AWG/SH/PL	ATLONA ATP-14009	0.354	0.098
FIBER	DUPLEX MULTIMODE FIBER CABLE (PLENUM)	(2) 62.5 MICRON	CORNING 002K88-31130-A3	0.48	0.181
FIBER-50UM	DUPLEX MULTIMODE FIBER CABLE (PLENUM)	(2) 50 MICRON	CORNING 002T88-31191-A3	0.48	0.181
FO-SM	DUPLEX SINGLEMODE FIBER CABLE (PLENUM)	(2) 8.2 MICRON	CORNING 002E88-31131-A3	0.51	0.204
HD-SDI	HD-SDI CABLE (PLENUM)	RG-11/U	BELDEN 7731A	0.4	0.126
HDMI	HDMI A/V CABLE (PLENUM)	15C/24AWG/SH/PL	ATLONA ATP-14029	0.354	0.098
MIC	MICROPHONE CABLE (PLENUM)	2COND/20AWG/SH/PL	WESTPENN 25292B	0.138	0.015
MUTE	MICROPHONE MUTE CONTROL (PLENUM)	4COND/22AWG/SH/PL	BELDEN 6502FC	0.133	0.014
P	CABLE FOR POWER (PLENUM)	2 COND/18GA/PL	WESTPENN 25224B	0.15	0.018
RG-8	PLENUM COAX	RG-8/U CATV PLENUM	BELDEN 7733A	0.355	0.099
RG-11	CATV BACKBONE PLENUM	RG-11 CATV PLENUM	BELDEN 1523AP	0.26	0.053
R	RED/GREEN/BLUE/H-SYNC/V-SYNC (PLENUM)	5-RG-59U/PL	EXTRON 22-103-02	0.304	0.073
SC	70V CEILING SPEAKERS (PLENUM)	2 COND/18GA/PL	WESTPENN 25224B	0.15	0.018
SDI	SDI CABLE (PLENUM)	RG-11/U	BELDEN 7731A	0.4	0.126
SF	SKEW FREE UTP (PLENUM)	4TW. PR. 23 AWG	EXTRON 22-142-03	0.24	0.045
S	PROGRAM 8 OHM SPEAKERS (PLENUM)	2 COND/14GA/PL	WESTPENN 25226B	0.26	0.053
UHF	WIRELESS MIC ANTENNA (PLENUM)	50Ω RG-58U/PL	BELDEN 88240	0.16	0.02
V	DIGITAL VIDEO CABLE (PLENUM)	75Ω PREC. VID/PL	BELDEN 1506A	0.2	0.031
YC	S-VIDEO (PLENUM)	(2) 75Ω COAX 26 GA/PL	EXTRON 22-129-03	0.25	0.049

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ISSUE/REVISION:

NO.	DATE	COMMENTS

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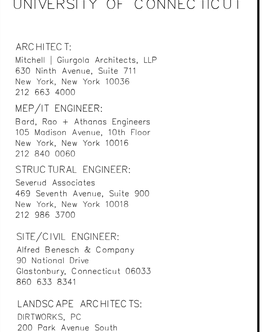
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

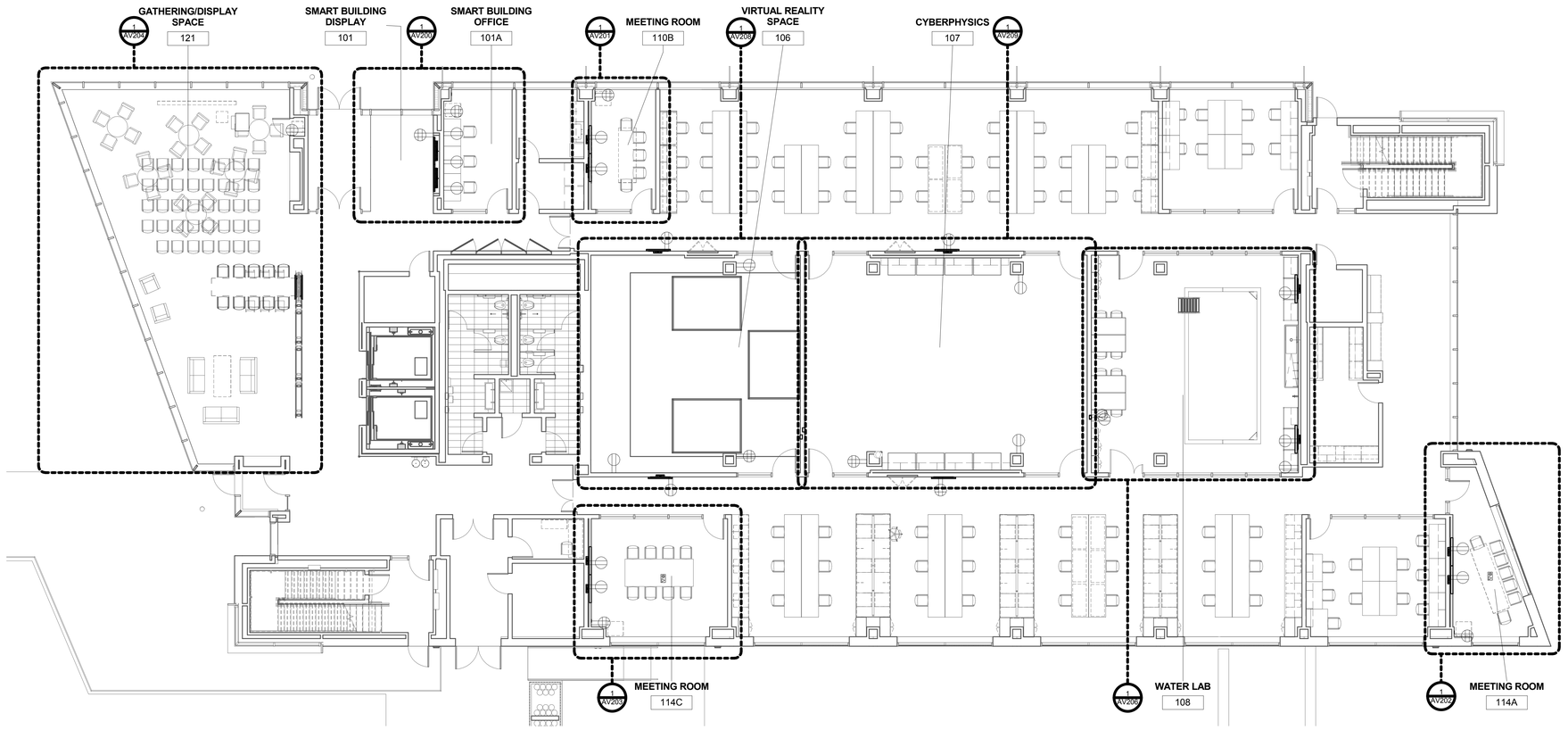
Drawing Title:

AV General Notes and Legend

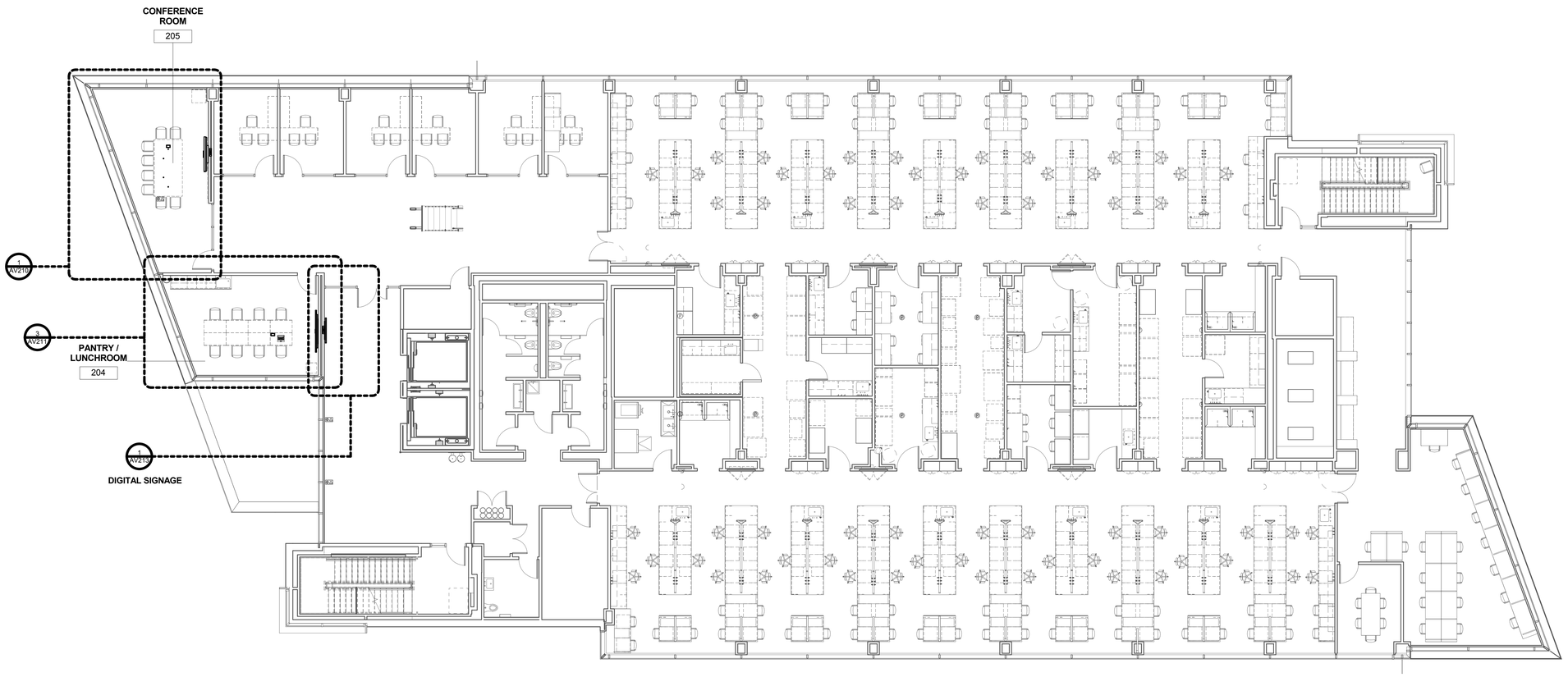
PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 12" = 1'-0"

AV001

CONFORMED SET: 05/29/2015



1 FLOOR 1 OVERALL PLAN AV SCOPE
1/8" = 1'-0"



2 FLOOR 2 OVERALL PLAN AV SCOPE
1/8" = 1'-0"

UNIVERSITY OF CONNECTICUT

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LEED CONSULTANT:
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ISSUE/REVISION:

NO.	DATE	COMMENTS

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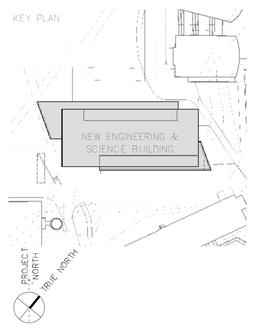
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

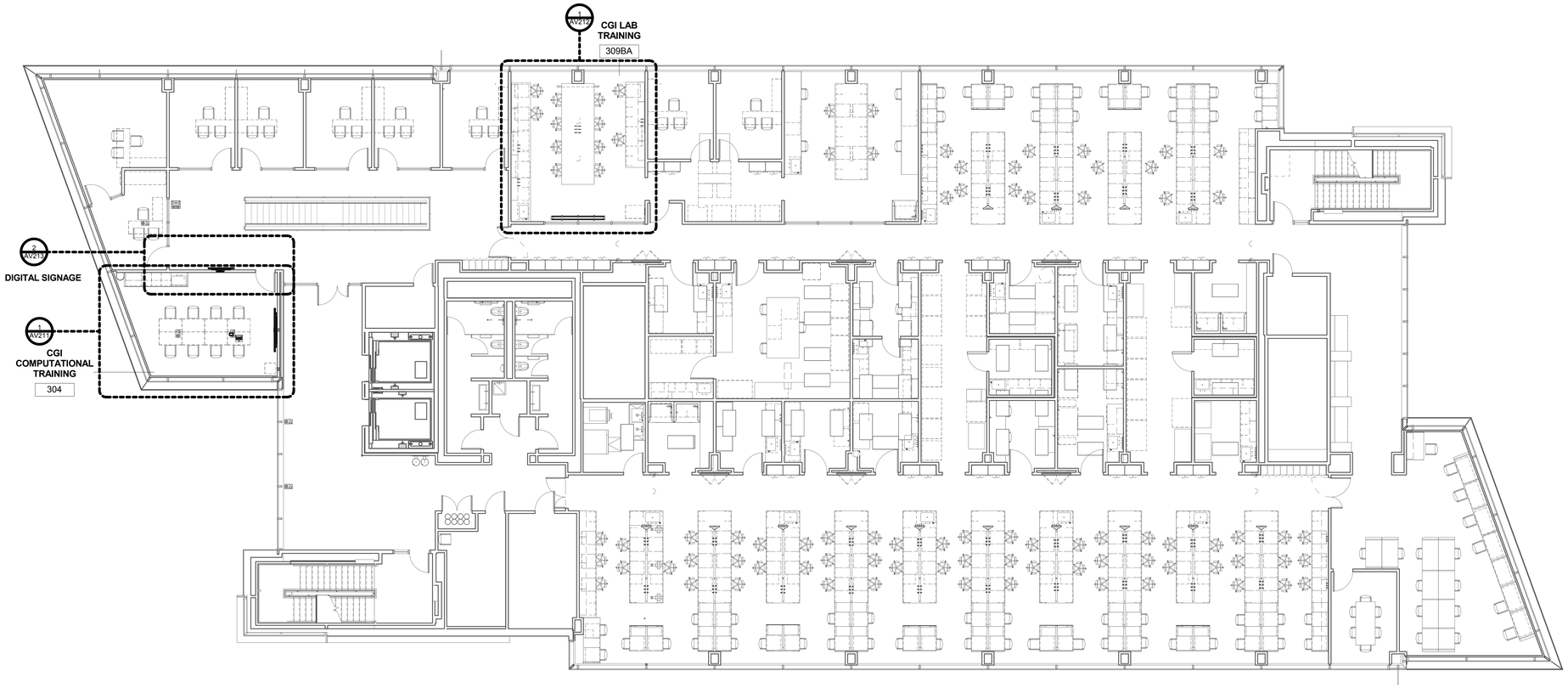
Drawing Title:

FLOOR 1 & 2 OVERALL PLAN AV SCOPE

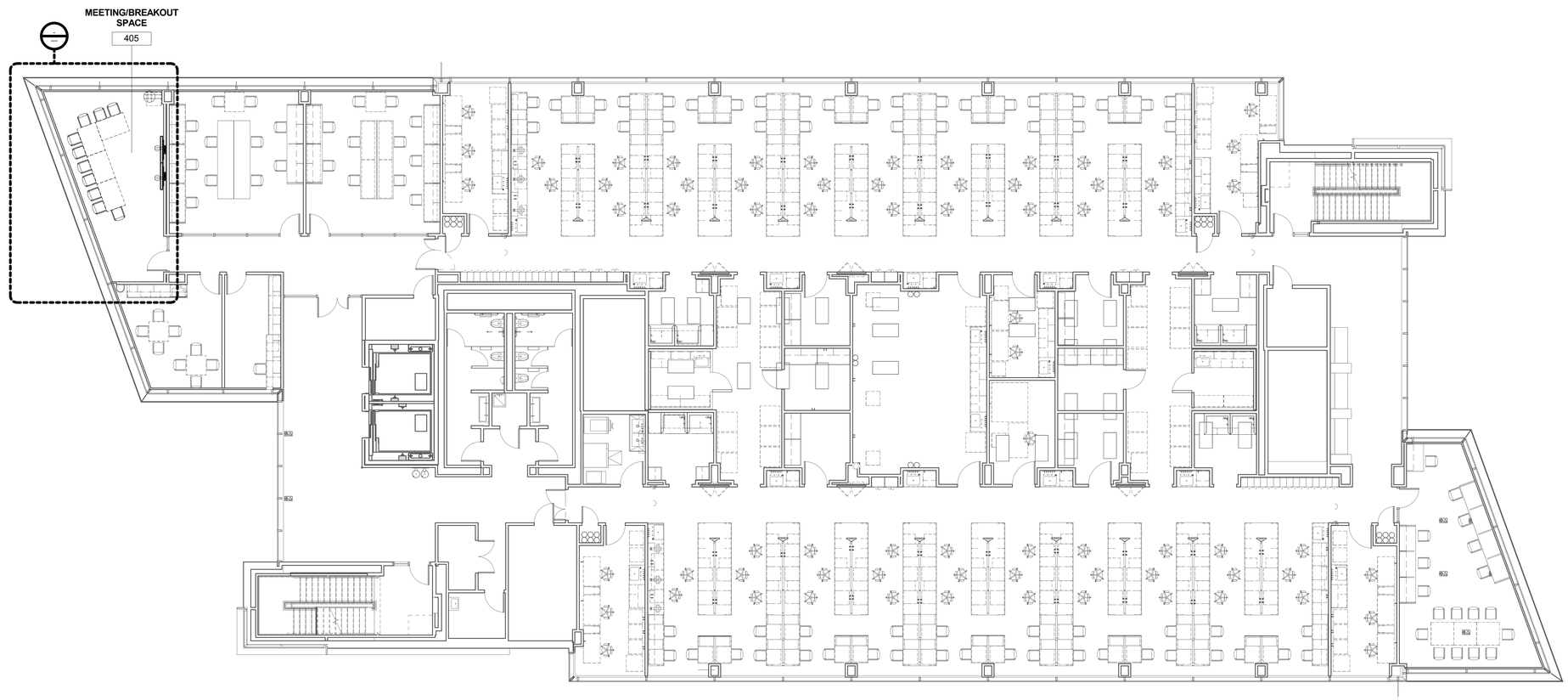
PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

AV101

CONFORMED SET: 05/29/2015



1 FLOOR 3 OVERALL PLAN AV SCOPE
1/8" = 1'-0"



2 FLOOR 4 OVERALL PLAN AV SCOPE
1/8" = 1'-0"

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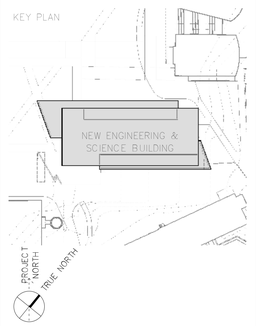
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

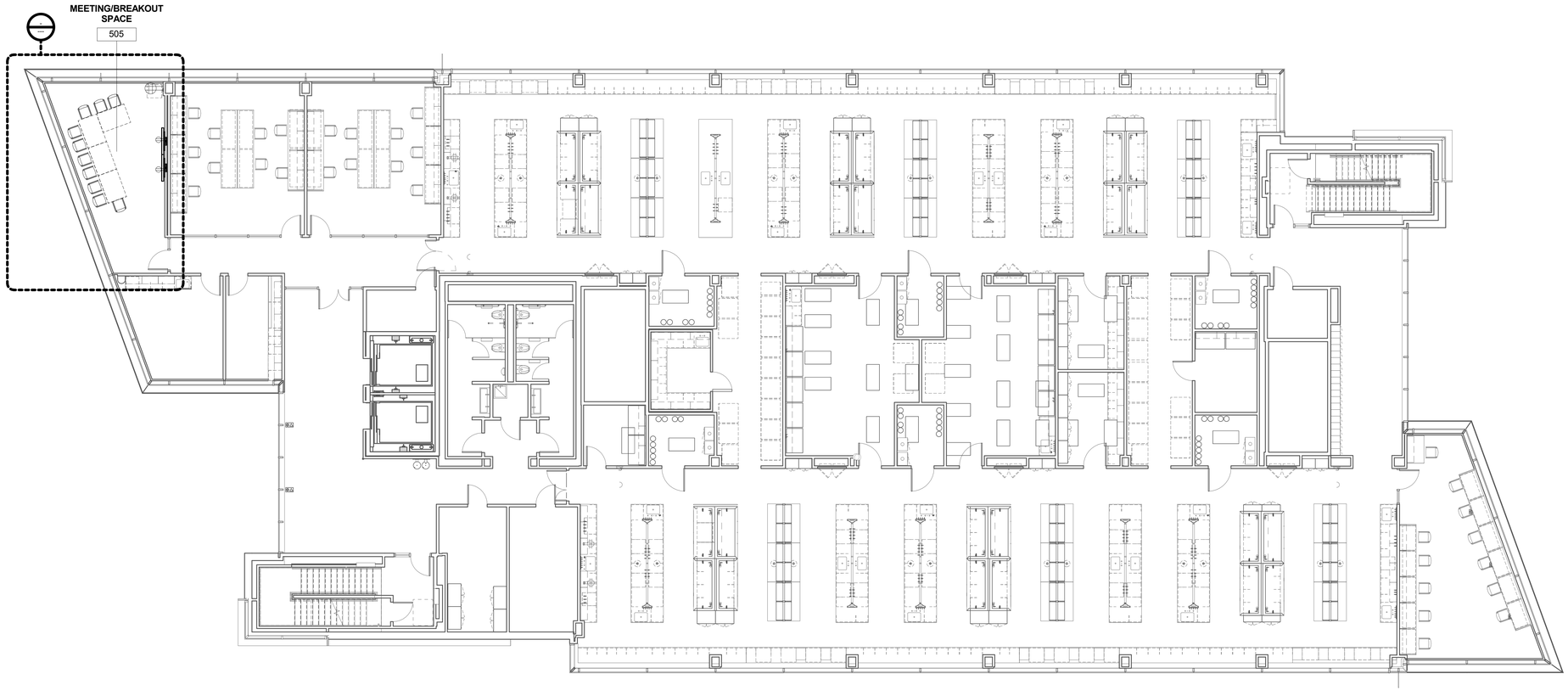
Drawing Title:

FLOOR 3 & 4 OVERALL PLAN AV SCOPE

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

AV102

CONFORMED SET: 05/29/2015



1 FLOOR 5 OVERALL PLAN AV SCOPE
1/8" = 1'-0"

UNIVERSITY OF CONNECTICUT

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ISSUE/REVISION:

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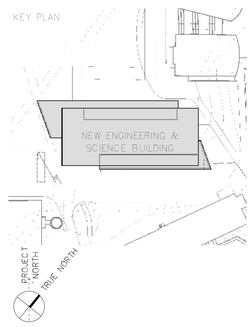
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

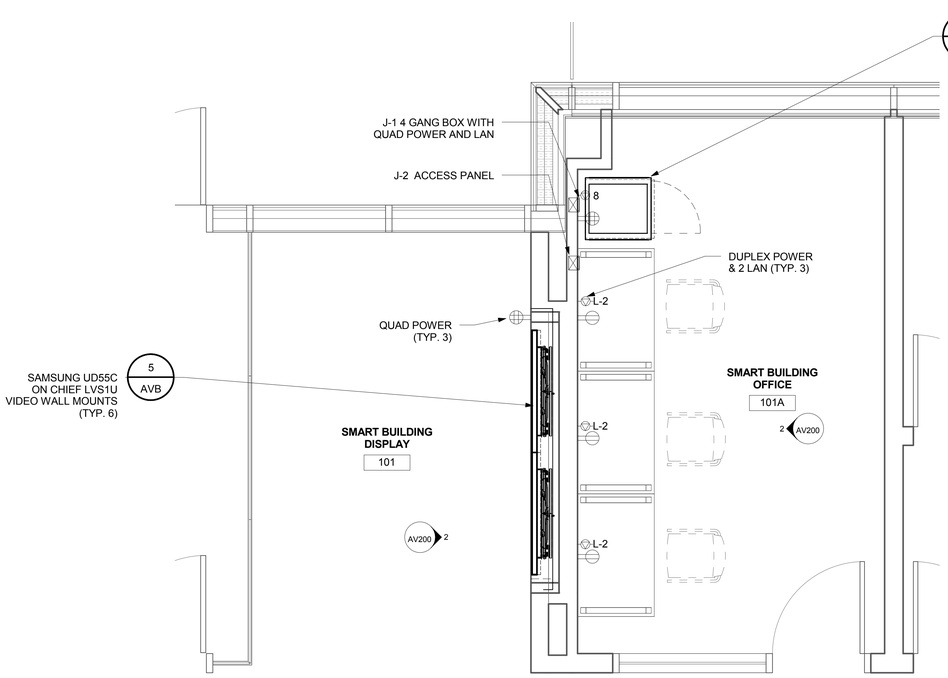
Drawing Title:

FLOOR 5 OVERALL PLAN AV SCOPE

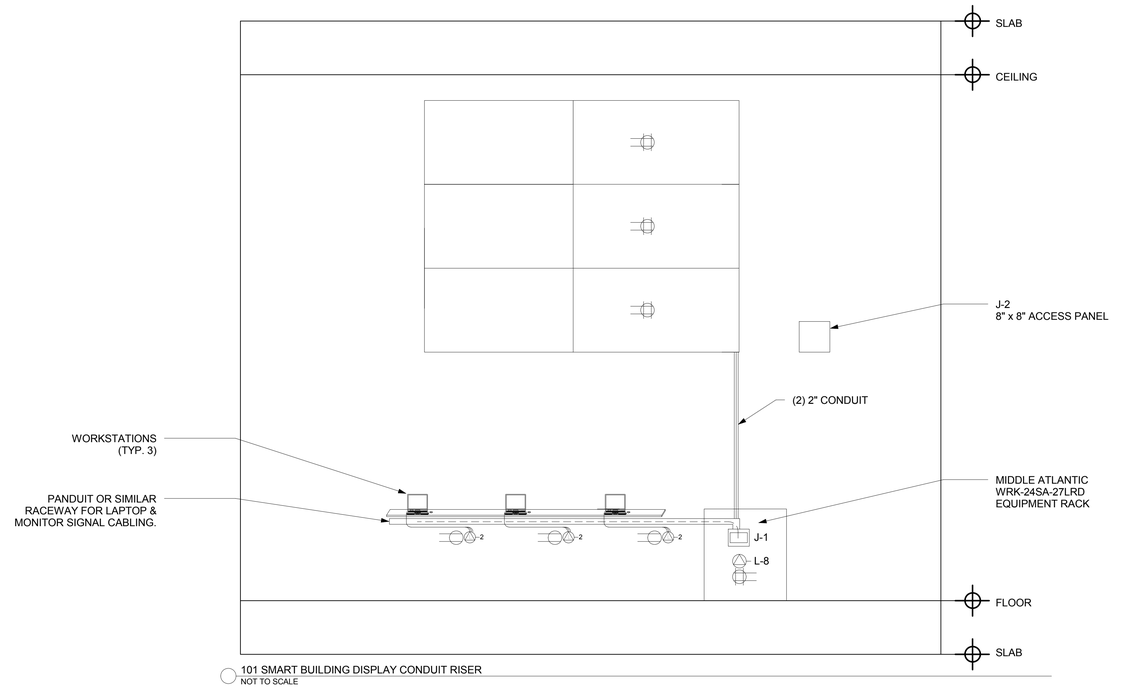
PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 1/8" = 1'-0"

AV103

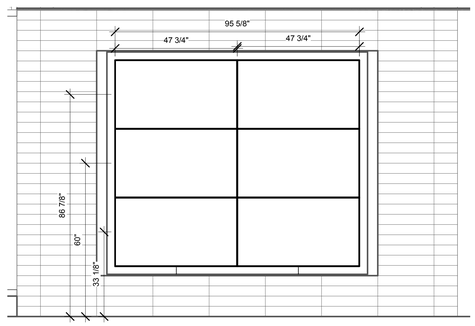
CONFORMED SET: 05/29/2015



1 101 SMART BUILDING DISPLAY PLAN
1/2" = 1'-0"



101 SMART BUILDING DISPLAY CONDUIT RISER
NOT TO SCALE

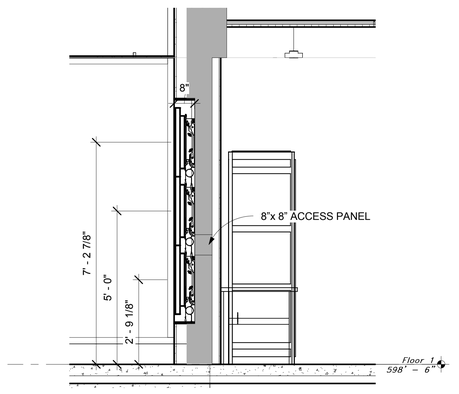


2 101 SMART BUILDING DISPLAY ELEVATION
1/2" = 1'-0"

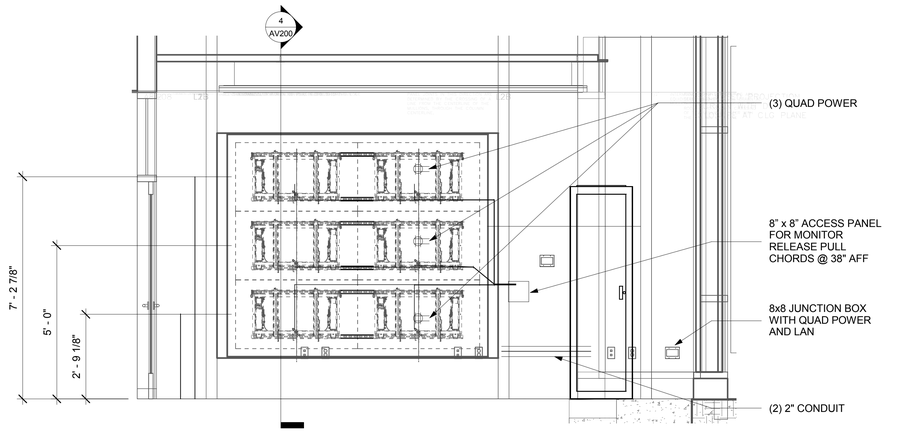
JUNCTION BOX SCHEDULE SMART BUILDING DISPLAY ROOM					
BOX #:	SIZE:	FUNCTION:	LOCATION:	ADD'L CABLE BEYOND BOX	AFF
J-1	8" x 8"	EQUIPMENT RACK	SEE AV FLOOR PLAN	25'-0"	18"
J-2	8" x 8"	ACCESS PANEL	SEE AV FLOOR PLAN	5'-0"	39"

ELECTRICAL SCHEDULE		
SYM.	DESCRIPTION	
	CEILING POWER OUTLET - 120V AC	STUBBED CONDUIT
C	AC CLOCK RECEPTACLE - 120V AC	
	AC DUPLEX OUTLET - 120V AC	
	AC QUAD OUTLET - 120V AC	
L 1	LAN WITH QUANTITY	
P 1	ANALOG LINE WITH QUANITY	RIGID CONDUIT
WP	WALL PHONE	
TV	CATV	
J-	J-BOX	
CB-	CEILING PULL AREA	PLENUM CABLE
SH LVC	SHADE LVC	
LT LVC	LIGHTING LVC	FC-1 FLOOR CORE
SCR LVC	SCREEN LVC	
LT SW	LIGHT SWITCH	POKE-THRU
SS SW	SCREEN SWITCH	

NOTES:
1. ALL CONDUITS TO BE 1" DIAMETER UNLESS OTHERWISE SPECIFIED.
2. ELECTRICAL CONTRACTOR TO INSTALL PULL STRING IN ALL CONDUITS.
3. THIS DRAWING INDICATES JUNCTION BOX NUMBERS, CABLE NUMBERS AND CONDUIT INTERCONNECT ONLY.
4. THIS DRAWINGS DOES NOT INDICATE EXACT JUNCTION BOX LOCATION OR EXACT CONDUIT ROUTING.
5. FOR FURTHER INFORMATION, REFER TO ARCHITECTURAL AND ELECTRICAL PRINTS.
6. 120VAC SERVICES FOR EQUIPMENTRACKS, CEILING MOUNTED PROJECTORS, LCD OR PLASMA MONITORS, FLOOR BOXES WITH AV, AV WALL PLATES ETC TO SHARE SAME PHASE, THEY SHOULD NOT BE ON THE SAME PHASE AS COMPRESSORS, MOTORS OR LIGHT DIMMING SYSTEMS.
7. EC TO PROVIDE ALL CONDUITS AND JUNCTION BOXES AS INDICATED.
8. SEE AV FLOOR PLAN FOR ALL AV RELATED POWER AND LAN CALL OUT LOCATIONS.
9. CONFIRM FINAL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTS PRIOR TO INSTALLATION OF ALL DEVICES.



4 VIDEO DISPLAY SECTION
1/2" = 1'-0"



5 REAR ELEVATION 1-A
1/2" = 1'-0"

101 SMART BUILDING SPACE - ESTIMATED POWER CONSUMPTION & BTU LOAD CHART						
ROOM	EQUIPMENT	WATTS (EACH)	QTY.	BTU (EACH)	BTU (TOTAL)	WEIGHT (EACH)
101 SMART BUILDING DISPLAY	SAMSUNG UD55C	160	6	549	3293	52.8 LBS
101A SMART BUILDING OFFICE	EQUIPMENT RACK	1480	1	1480	5076	

ROOM EQUIPMENT DATA	
SCREEN SIZE	(6) 55" DIAGONAL

GENERAL NOTES:
1. ELECTRICAL SERVICES SHOWN ON THIS DRAWING ARE FOR AV REQUIREMENTS ONLY. THESE AV CIRCUITS SHOULD ALL BE ON THE SAME ELECTRICAL PHASE AND ON THEIR OWN DEDICATED CIRCUITS.
2. WALL MOUNTED LCD MONITORS SHOULD BE PROVIDED WITH WALL SUPPORT BLOCKING THAT IS RATED FOR 5 TIMES THE WEIGHT OF THE LCD MONITOR AND MOUNT.
3. WALL SERVICES TO BE LOCATED USING A PREMIER CTM-MS2 WALL MOUNT AS A TEMPLATE BY EC.
4. AN OPTIONAL TOUCH SCREEN OVERLAY WILL BE PROVIDED FOR 4 PT. MULTI-TOUCH INTERACTIVE FUNCTIONALITY

FURNITURE NOTES:
1. FURNITURE IS TO BE RECONFIGURABLE.
2. PC'S ARE TO BE MOUNTED IN THE AV EQUIPMENT RACK
3. PC MONITORS WILL CONNECT TO RACK MOUNTED PC's

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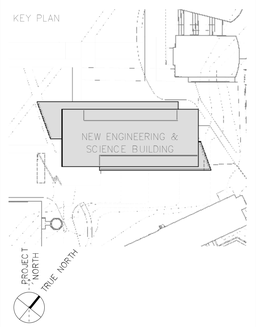
KEY PLAN



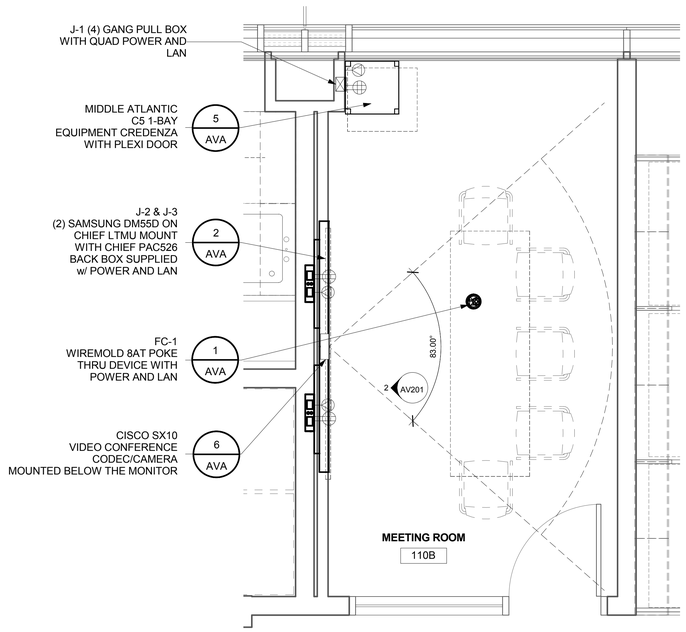
Project:
NEW ENGINEERING AND SCIENCE BUILDING

Drawing Title:
101 SMART BUILDING DISPLAY

CONFORMED SET: 05/29/2015

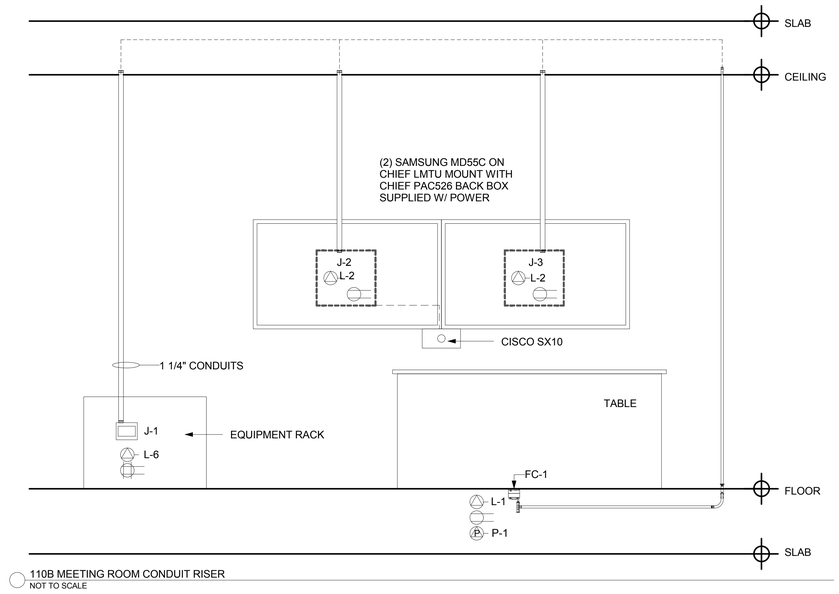
PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

AV200



1 110B MEETING ROOM PLAN
1/2" = 1'-0"

2 110B MEETING ROOM ELEVATION
1/2" = 1'-0"



110B MEETING ROOM CONDUIT RISER
NOT TO SCALE

JUNCTION BOX SCHEDULE 110B MEETING ROOM					
BOX #:	SIZE:	FUNCTION:	LOCATION:	ADD'L CABLE BEYOND BOX	AFF
J-1	4 GANG	EQUIPMENT RACK	SEE AV FLOOR PLAN	5'-0"	18"
J-2	PAC BOX	MONITOR PULL BOX	SEE AV FLOOR PLAN	5'-0"	60"
J-3	PAC BOX	MONITOR PULL BOX	SEE AV FLOOR PLAN	5'-0"	60"
FC-1	8" POKE THRU	POKE-THRU	LOCATED ON FLOOR - SEE AV FLOOR PLAN	10'-0"	N/A

ELECTRICAL SCHEDULE		
SYM.	DESCRIPTION	
	CEILING POWER OUTLET - 120V AC	STUBBED CONDUIT
C	AC CLOCK RECEPTACLE - 120V AC	
	AC DUPLEX OUTLET - 120V AC	
	AC QUAD OUTLET - 120V AC	
L 1	LAN WITH QUANTITY	RIGID CONDUIT
P 1	ANALOG LINE WITH QUANITY	
WP	WALL PHONE	
TV	CATV	
J-	J-BOX	PLENUM CABLE
CB-	CEILING PULL AREA	
SH LVC	SHADE LVC	
LT LVC	LIGHTING LVC	FC-1 FLOOR CORE
SCR LVC	SCREEN LVC	
LT SW	LIGHT SWITCH	POKE-THRU
SS SW	SCREEN SWITCH	

NOTES:

1. ALL CONDUITS TO BE 1" DIAMETER UNLESS OTHERWISE SPECIFIED.
2. ELECTRICAL CONTRACTOR TO INSTALL PULL STRING IN ALL CONDUITS.
3. THIS DRAWING INDICATES JUNCTION BOX NUMBERS, CABLE NUMBERS AND CONDUIT INTERCONNECT ONLY.
4. THIS DRAWINGS DOES NOT INDICATE EXACT JUNCTION BOX LOCATION OR EXACT CONDUIT ROUTING.
5. FOR FURTHER INFORMATION, REFER TO ARCHITECTURAL AND ELECTRICAL PRINTS.
6. 120VAC SERVICES FOR EQUIPMENT RACKS, CEILING MOUNTED PROJECTORS, LCD OR PLASMA MONITORS, FLOOR BOXES WITH AV, AV WALL PLATES ETC TO SHARE SAME PHASE. THEY SHOULD NOT BE ON THE SAME PHASE AS COMPRESSORS, MOTORS OR LIGHT DIMMING SYSTEMS.
7. EC TO PROVIDE ALL CONDUITS AND JUNCTION BOXES AS INDICATED.
8. SEE AV FLOOR PLAN FOR ALL AV RELATED POWER AND LAN CALL OUT LOCATIONS.
9. CONFIRM FINAL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTS PRIOR TO INSTALLATION OF ALL DEVICES.

GENERAL NOTES:

1. ELECTRICAL SERVICES SHOWN ON THIS DRAWING ARE FOR AV REQUIREMENTS ONLY. THESE AV CIRCUITS SHOULD ALL BE ON THE SAME ELECTRICAL PHASE AND ON THEIR OWN DEDICATED CIRCUITS.
2. WALL MOUNTED LCD MONITORS SHOULD BE PROVIDED WITH WALL SUPPORT BLOCKING THAT IS RATED FOR 5 TIMES THE WEIGHT OF THE LCD MONITOR AND MOUNT.

FURNITURE NOTES:

1. TABLE WILL UTILIZE ONE POKE-THRU SUPPLIED WITH POWER/LAN BY OTHERS.
2. TABLE BOXES BY AVC. CUTOUTS PROVIDED BY TABLE MANUFACTURER.
3. TABLE SHOULD BE PROVIDED WITH CABLE MANAGEMENT FOR CLEAN CONNECTION FROM THE POKE-THRU TO THE TABLE BOX.

LIGHTING NOTES:

1. LIGHTING ZONES TO BE CIRCUITED AND DIMMABLE. FRONT ZONE OF LIGHTING CLOSEST TO DISPLAYS SHOULD BE ON A SEPARATE ZONE SO THAT IT CAN BE DIMMED OR SHUT OFF IF NECESSARY.
2. LIGHTING SYSTEM TO BE CONTROLLED VIA ROOM CRESTRON AV CONTROLS.

110 B MEETING ROOM- ESTIMATED POWER CONSUMPTION & BTU LOAD CHART							
Model	Description	Power Peak	BTU	Component Depth	Component Height	Component Width	Component Weight
SAMSUNG 55" MD55C		200 W	682	3 3/4"	28 1/2"	49 1/8"	36.2
SAMSUNG 55" MD55C		165 W	563	3 3/4"	28 1/2"	49 1/8"	42.1
C5-F1	120V 19" A/V 1 BAY CREDENZA EQUIPMENT RACK	250 W	853				
		615 W	2098				

ROOM EQUIPMENT DATA	
SCREEN SIZE	(2) 55" DIAGONAL

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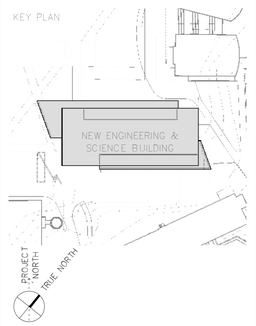
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

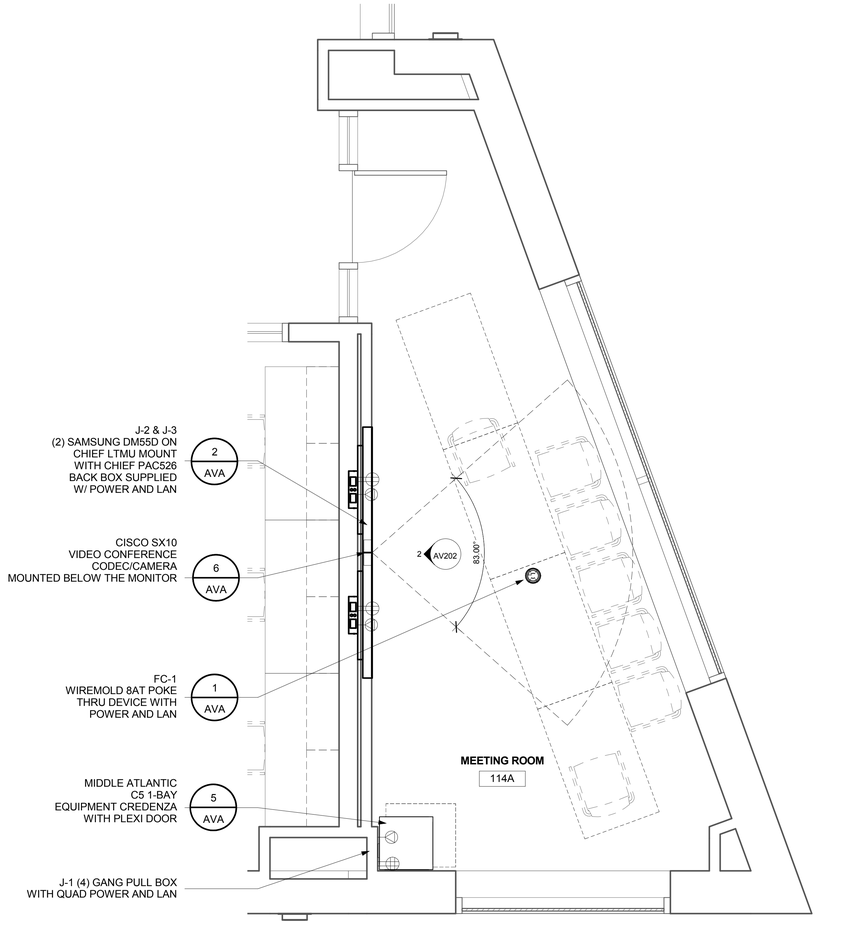
Drawing Title:

110B MEETING ROOM

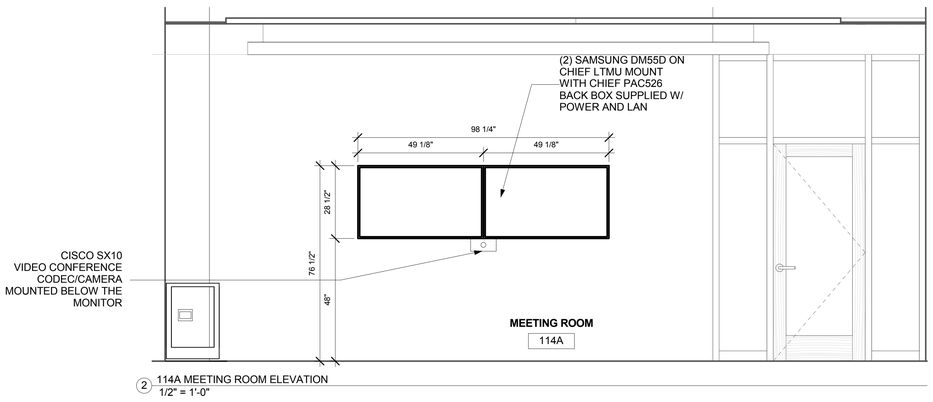
CONFORMED SET: 05/29/2015

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

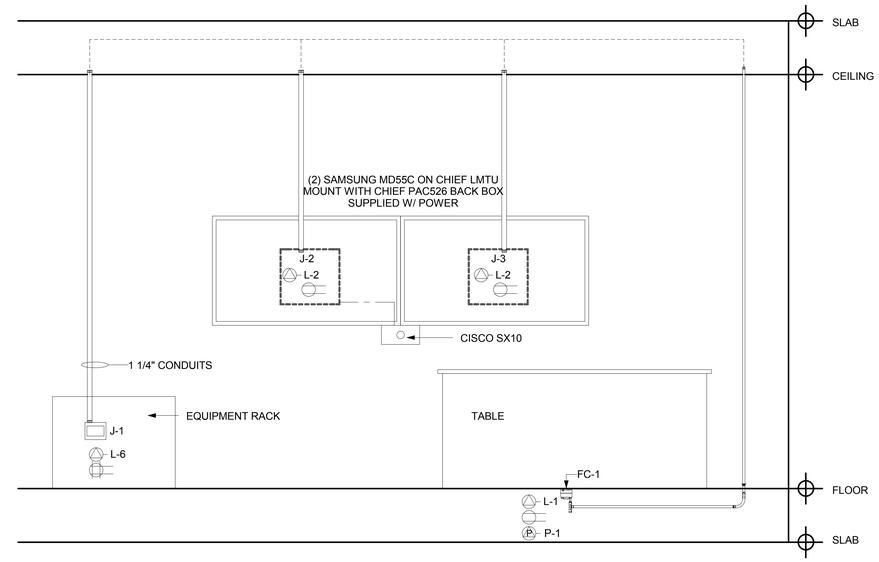
AV201



1 114A MEETING ROOM PLAN
1/2" = 1'-0"



2 114A MEETING ROOM ELEVATION
1/2" = 1'-0"



114C MEETING ROOM CONDUIT RISER
NOT TO SCALE

JUNCTION BOX SCHEDULE 114A & 114C MEETING ROOM					
BOX #:	SIZE:	FUNCTION:	LOCATION:	ADD'L CABLE BEYOND BOX	AFF
J-1	4 GANG	EQUIPMENT RACK	SEE AV FLOOR PLAN	5'-0"	18"
J-2	PAC BOX	MONITOR PULL BOX	SEE AV FLOOR PLAN	5'-0"	60"
J-3	PAC BOX	MONITOR PULL BOX	SEE AV FLOOR PLAN	5'-0"	60"
FC-1	8" POKE THRU	POKE-THRU	LOCATED ON FLOOR - SEE AV FLOOR PLAN	10'-0"	N/A

ELECTRICAL SCHEDULE		
SYM.	DESCRIPTION	
	CEILING POWER OUTLET - 120V AC	STUBBED CONDUIT
C	AC CLOCK RECEPTACLE - 120V AC	
	AC DUPLEX OUTLET - 120V AC	
	AC QUAD OUTLET - 120V AC	
L 1	LAN WITH QUANTITY	RIGID CONDUIT
P 1	ANALOG LINE WITH QUANITY	
WP	WALL PHONE	
TV	CATV	
J-	J-BOX	PLENUM CABLE
CB-	CEILING PULL AREA	
SH LVC	SHADE LVC	
LT LVC	LIGHTING LVC	FLOOR CORE
SCR LVC	SCREEN LVC	
LT SW	LIGHT SWITCH	POKE-THRU
SS SW	SCREEN SWITCH	

NOTES:

1. ALL CONDUITS TO BE 1" DIAMETER UNLESS OTHERWISE SPECIFIED.
2. ELECTRICAL CONTRACTOR TO INSTALL PULL STRING IN ALL CONDUITS.
3. THIS DRAWING INDICATES JUNCTION BOX NUMBERS, CABLE NUMBERS AND CONDUIT INTERCONNECT ONLY.
4. THIS DRAWINGS DOES NOT INDICATE EXACT JUNCTION BOX LOCATION OR EXACT CONDUIT ROUTING.
5. FOR FURTHER INFORMATION, REFER TO ARCHITECTURAL AND ELECTRICAL PRINTS.
6. 120VAC SERVICES FOR EQUIPMENT RACKS, CEILING MOUNTED PROJECTORS, LCD OR PLASMA MONITORS, FLOOR BOXES WITH AV, AV WALL PLATES ETC TO SHARE SAME PHASE. THEY SHOULD NOT BE ON THE SAME PHASE AS COMPRESSORS, MOTORS OR LIGHT DIMMING SYSTEMS.
7. EC TO PROVIDE ALL CONDUITS AND JUNCTION BOXES AS INDICATED.
8. SEE AV FLOOR PLAN FOR ALL AV RELATED POWER AND LAN CALL OUT LOCATIONS.
9. CONFIRM FINAL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTS PRIOR TO INSTALLATION OF ALL DEVICES.

GENERAL NOTES:

1. ELECTRICAL SERVICES SHOWN ON THIS DRAWING ARE FOR AV REQUIREMENTS ONLY. THESE AV CIRCUITS SHOULD ALL BE ON THE SAME ELECTRICAL PHASE AND ON THEIR OWN DEDICATED CIRCUITS.
2. WALL MOUNTED LCD MONITORS SHOULD BE PROVIDED WITH WALL SUPPORT BLOCKING THAT IS RATED FOR 5 TIMES THE WEIGHT OF THE LCD MONITOR AND MOUNT.

FURNITURE NOTES:

1. TABLE WILL UTILIZE ONE POKE-THRU SUPPLIED WITH POWER/LAN BY OTHERS.
2. TABLE BOXES BY AVC. CUTOUTS PROVIDED BY TABLE MANUFACTURER.
3. TABLE SHOULD BE PROVIDED WITH CABLE MANAGEMENT FOR CLEAN CONNECTION FROM THE POKE-THRU TO THE TABLE BOX.

LIGHTING NOTES:

1. LIGHTING ZONES TO BE CIRCUITED AND DIMMABLE. FRONT ZONE OF LIGHTING CLOSEST TO DISPLAYS SHOULD BE ON A SEPARATE ZONE SO THAT IT CAN BE DIMMED OR SHUT OFF IF NECESSARY.
2. LIGHTING SYSTEM TO BE CONTROLLED VIA ROOM CRESTRON AV CONTROLS.

114 A MEETING ROOM- ESTIMATED POWER CONSUMPTION & BTU LOAD CHART							
Model	Description	Power Peak	BTU	Component Depth	Component Height	Component Width	Component Weight
SAMSUNG 55" MD55C		200 W	682	3 3/4"	28 1/2"	49 1/8"	36.2
SAMSUNG 55" MD55C		200 W	682	3 3/4"	28 1/2"	49 1/8"	36.2
C5-F1	120V 19" A/V 1 BAY CREDENZA EQUIPMENT RACK	250 W	853				
		650 W	2217				

ROOM EQUIPMENT DATA	
SCREEN SIZE	(2) 55" DIAGONAL

UNIVERSITY OF CONNECTICUT

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630 Ninth Avenue, Suite 711
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SITE/CIVIL ENGINEER:
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90 National Drive
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LANDSCAPE ARCHITECTS:
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LEED CONSULTANT:
Steven Winter Associates, Inc.
61 Washington Street
Norwalk, Connecticut 06854
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ISSUE/REVISION:

NO.	DATE	COMMENTS

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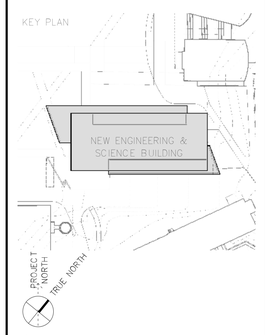
ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK

KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

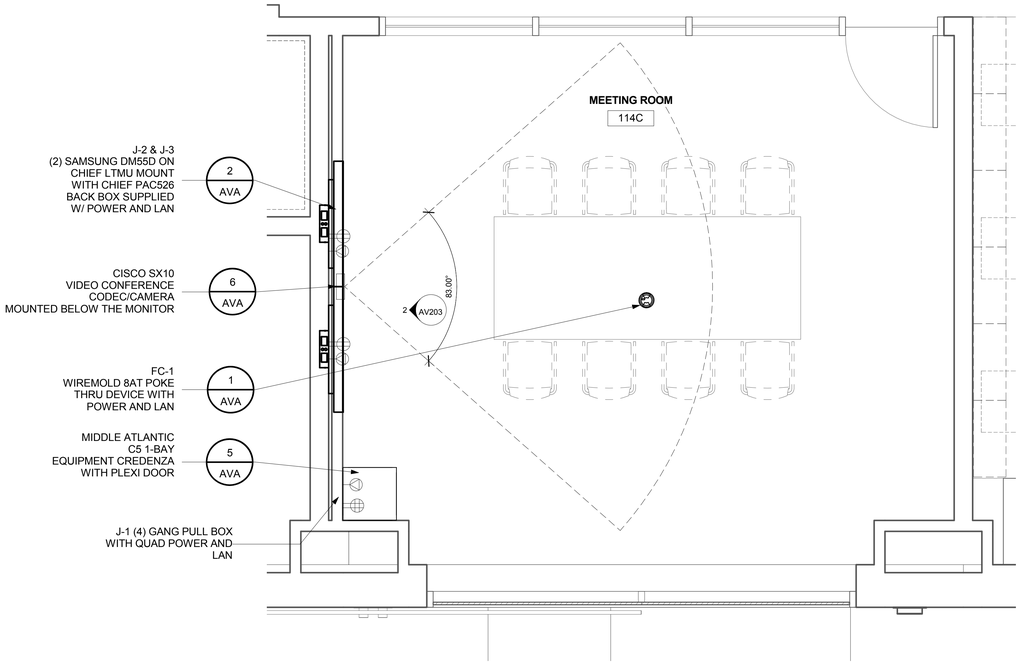
Drawing Title:

114A MEETING ROOM

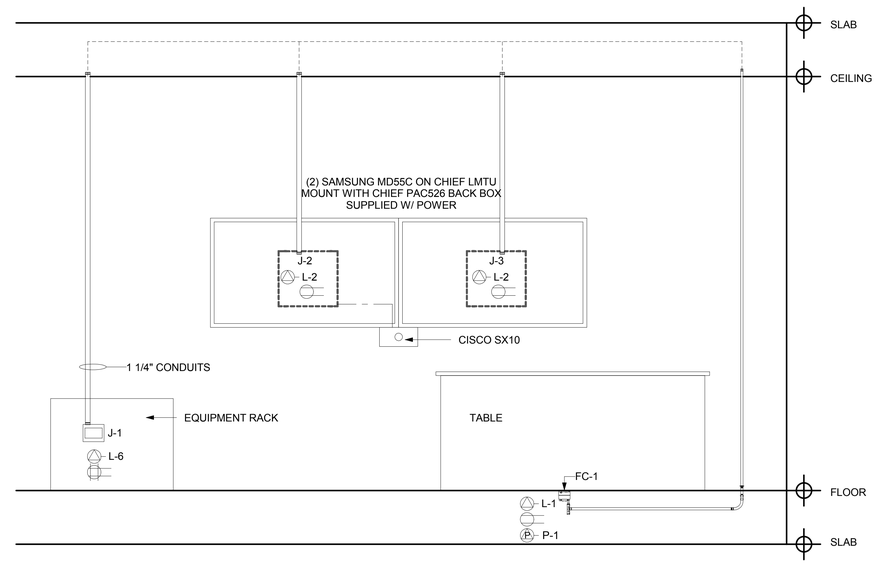
CONFORMED SET: 05/29/2015

PROJECT NO: 092203 | DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS | SCALE: As indicated

AV202

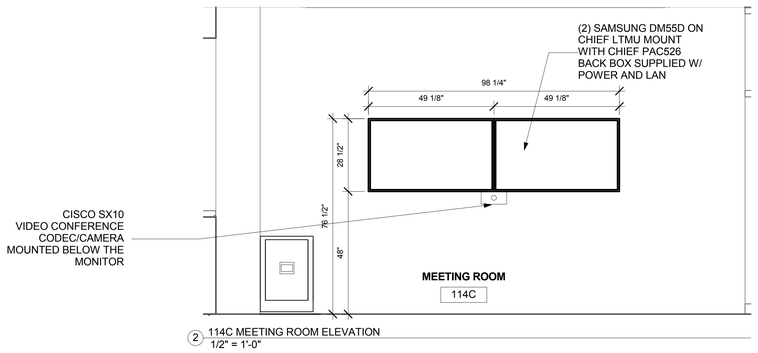


1 114C MEETING ROOM PLAN
1/2" = 1'-0"



114C MEETING ROOM CONDUIT RISER
NOT TO SCALE

JUNCTION BOX SCHEDULE 114A & 114C MEETING ROOM					
BOX #:	SIZE:	FUNCTION:	LOCATION:	ADD'L CABLE BEYOND BOX	AFF
J-1	4 GANG	EQUIPMENT RACK	SEE AV FLOOR PLAN	5'-0"	18"
J-2	PAC BOX	MONITOR PULL BOX	SEE AV FLOOR PLAN	5'-0"	60"
J-3	PAC BOX	MONITOR PULL BOX	SEE AV FLOOR PLAN	5'-0"	60"
FC-1	8" POKE THRU	POKE-THRU	LOCATED ON FLOOR - SEE AV FLOOR PLAN	10'-0"	N/A



2 114C MEETING ROOM ELEVATION
1/2" = 1'-0"

ELECTRICAL SCHEDULE		
SYM.	DESCRIPTION	
	CEILING POWER OUTLET - 120V AC	STUBBED CONDUIT
C	AC CLOCK RECEPTACLE - 120V AC	
	AC DUPLEX OUTLET - 120V AC	
	AC QUAD OUTLET - 120V AC	
L-1	LAN WITH QUANTITY	
P-1	ANALOG LINE WITH QUANITY	RIGID CONDUIT
WP	WALL PHONE	
TV	CATV	
J-	J-BOX	
CB-	CEILING PULL AREA	PLENUM CABLE
SH LVC	SHADE LVC	
LT LVC	LIGHTING LVC	
SCR LVC	SCREEN LVC	FC-1 FLOOR CORE
LT SW	LIGHT SWITCH	POKE-THRU
SS SW	SCREEN SWITCH	

NOTES:
1. ALL CONDUITS TO BE 1" DIAMETER UNLESS OTHERWISE SPECIFIED.
2. ELECTRICAL CONTRACTOR TO INSTALL PULL STRING IN ALL CONDUITS.
3. THIS DRAWING INDICATES JUNCTION BOX NUMBERS, CABLE NUMBERS AND CONDUIT INTERCONNECT ONLY.
4. THIS DRAWINGS DOES NOT INDICATE EXACT JUNCTION BOX LOCATION OR EXACT CONDUIT ROUTING.
5. FOR FURTHER INFORMATION, REFER TO ARCHITECTURAL AND ELECTRICAL PRINTS.
6. 120VAC SERVICES FOR EQUIPMENT RACKS, CEILING MOUNTED PROJECTORS, LCD OR PLASMA MONITORS, FLOOR BOXES WITH AV, AV WALL PLATES ETC TO SHARE SAME PHASE. THEY SHOULD NOT BE ON THE SAME PHASE AS COMPRESSORS, MOTORS OR LIGHT DIMMING SYSTEMS.
7. EC TO PROVIDE ALL CONDUITS AND JUNCTION BOXES AS INDICATED.
8. SEE AV FLOOR PLAN FOR ALL AV RELATED POWER AND LAN CALL OUT LOCATIONS.
9. CONFIRM FINAL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTS PRIOR TO INSTALLATION OF ALL DEVICES.

GENERAL NOTES:
1. ELECTRICAL SERVICES SHOWN ON THIS DRAWING ARE FOR AV REQUIREMENTS ONLY. THESE AV CIRCUITS SHOULD ALL BE ON THE SAME ELECTRICAL PHASE AND ON THEIR OWN DEDICATED CIRCUITS.
2. WALL MOUNTED LCD MONITORS SHOULD BE PROVIDED WITH WALL SUPPORT BLOCKING THAT IS RATED FOR 5 TIMES THE WEIGHT OF THE LCD MONITOR AND MOUNT.

FURNITURE NOTES:
1. TABLE WILL UTILIZE ONE POKE-THRU SUPPLIED WITH POWER/LAN BY OTHERS.
2. TABLE BOXES BY AVC. CUTOUTS PROVIDED BY TABLE MANUFACTURER.
3. TABLE SHOULD BE PROVIDED WITH CABLE MANAGEMENT FOR CLEAN CONNECTION FROM THE POKE-THRU TO THE TABLE BOX.

LIGHTING NOTES:
1. LIGHTING ZONES TO BE CIRCUITED AND DIMMABLE. FRONT ZONE OF LIGHTING CLOSEST TO DISPLAYS SHOULD BE ON A SEPARATE ZONE SO THAT IT CAN BE DIMMED OR SHUT OFF IF NECESSARY.
2. LIGHTING SYSTEM TO BE CONTROLLED VIA ROOM CRESTRON AV CONTROLS.

114 C MEETING ROOM- ESTIMATED POWER CONSUMPTION & BTU LOAD CHART							
Model	Description	Power Peak	BTU	Component Depth	Component Height	Component Width	Component Weight
SAMSUNG 55" MD55C		200 W	682	3 3/4"	28 1/2"	49 1/8"	36.2
SAMSUNG 55" MD55C		200 W	682	3 3/4"	28 1/2"	49 1/8"	36.2
C5-F1	120V 19" A/V 1 BAY CREDENZA EQUIPMENT RACK	250 W	853				
		650 W	2217				

ROOM EQUIPMENT DATA	
SCREEN SIZE	(2) 55" DIAGONAL

UNIVERSITY OF CONNECTICUT

ARCHITECT:
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203 857 0200

ISSUE/REVISION:

NO.	DATE	COMMENTS

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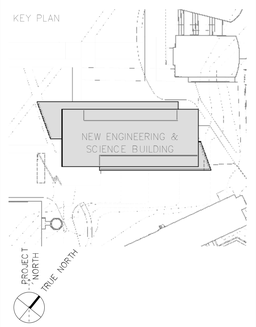
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

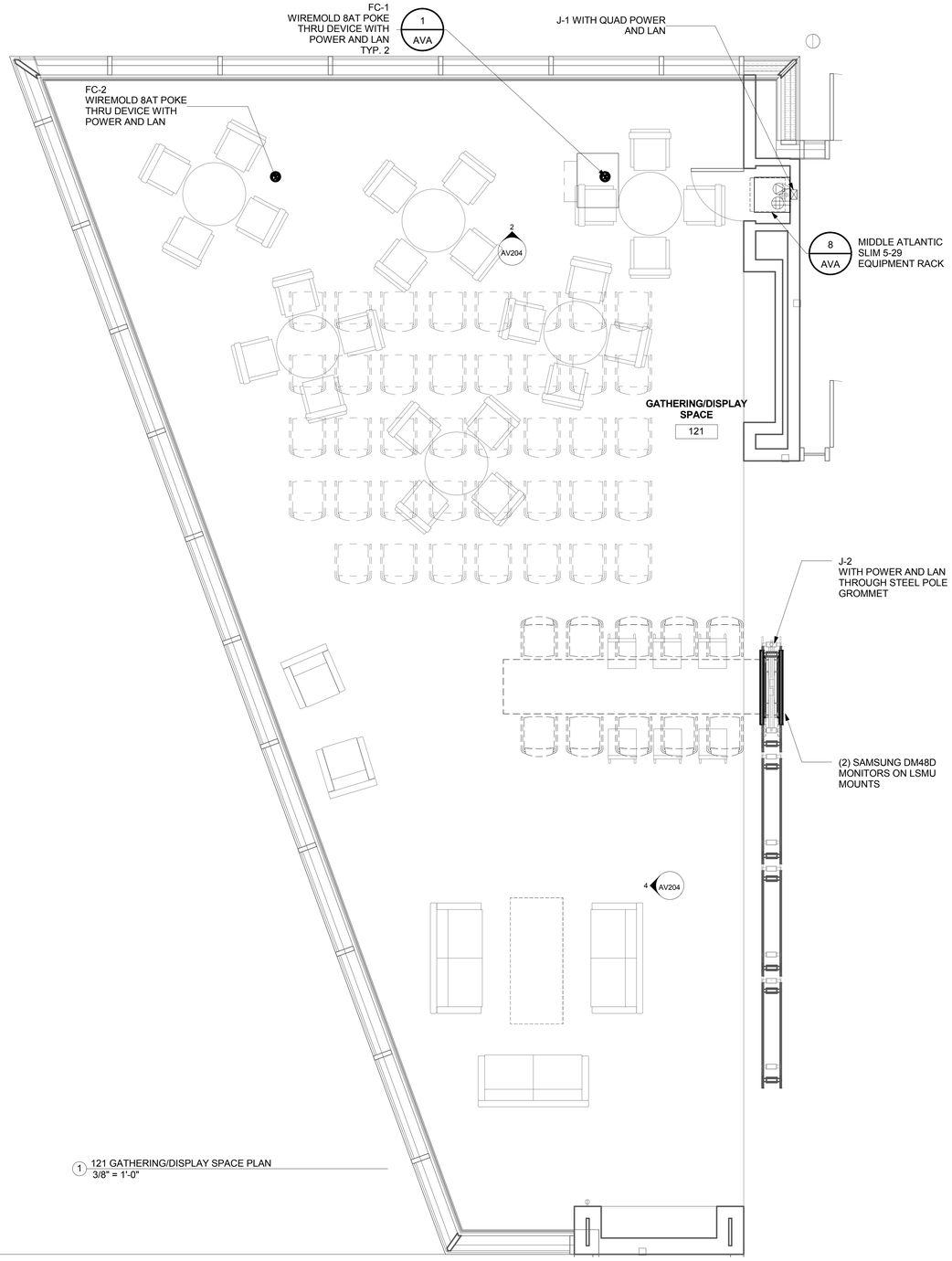
Drawing Title:

114C MEETING ROOM

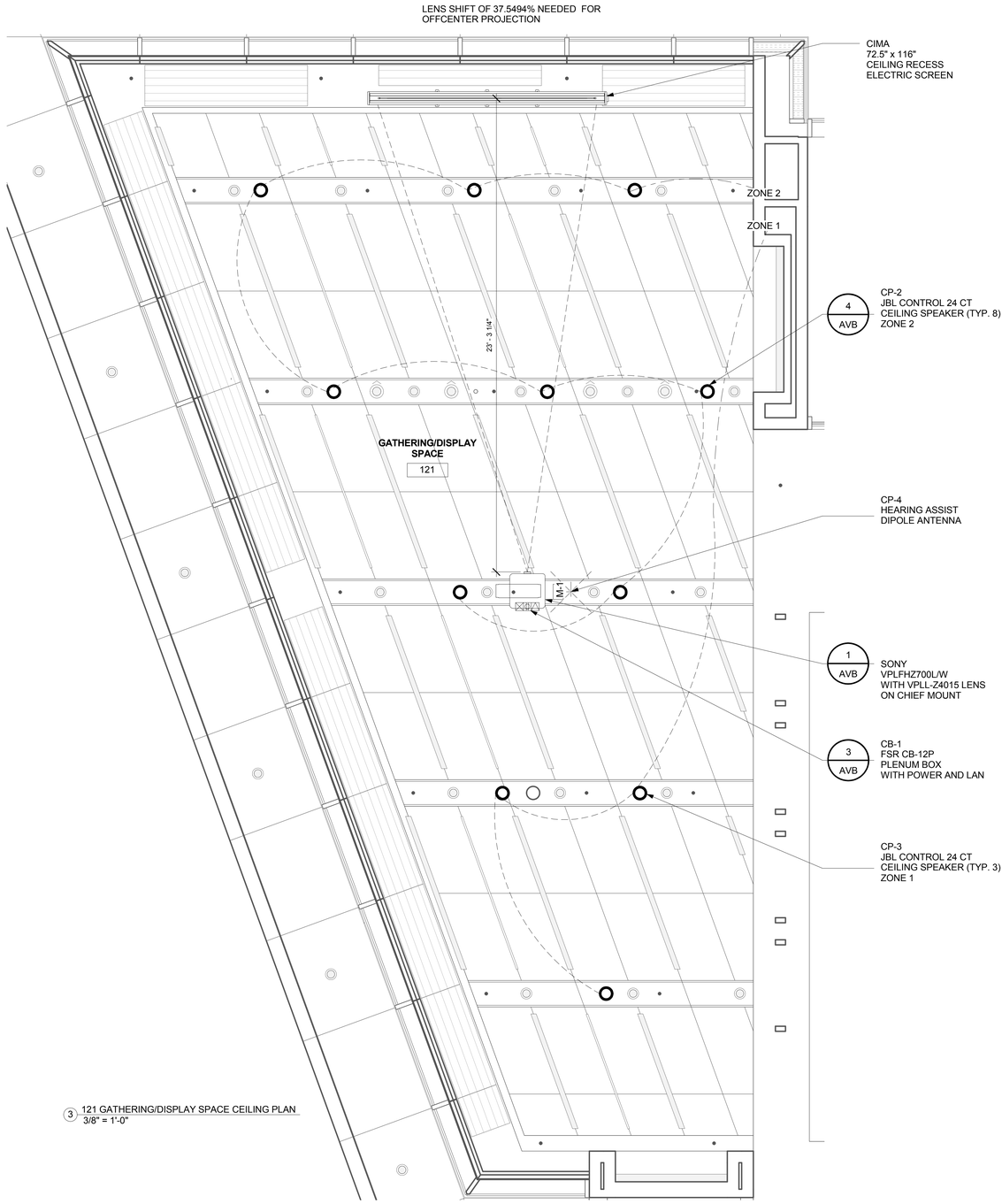
CONFORMED SET: 05/29/2015

PROJECT NO: 092203 | DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS | SCALE: As indicated

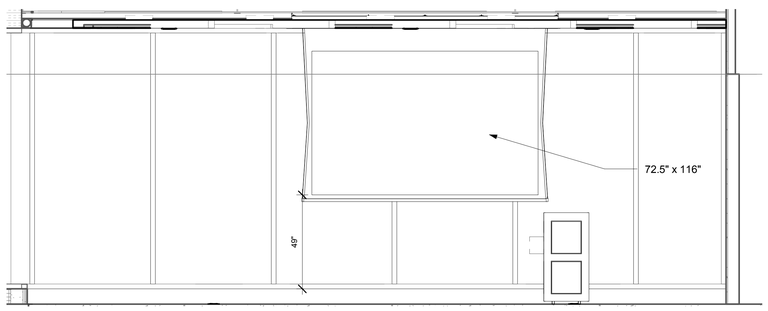
AV203



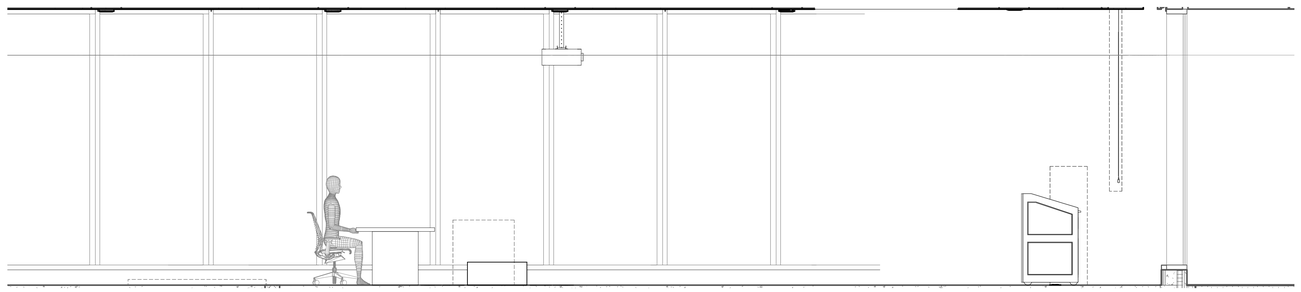
1 121 GATHERING/DISPLAY SPACE PLAN
3/8" = 1'-0"



3 121 GATHERING/DISPLAY SPACE CEILING PLAN
3/8" = 1'-0"



2 121 GATHERING/DISPLAY SPACE ELEVATION
3/8" = 1'-0"



4 121 GATHERING/DISPLAY SPACE ELEVATION
3/8" = 1'-0"

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ISSUE/REVISION:

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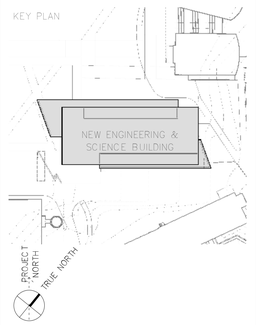
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

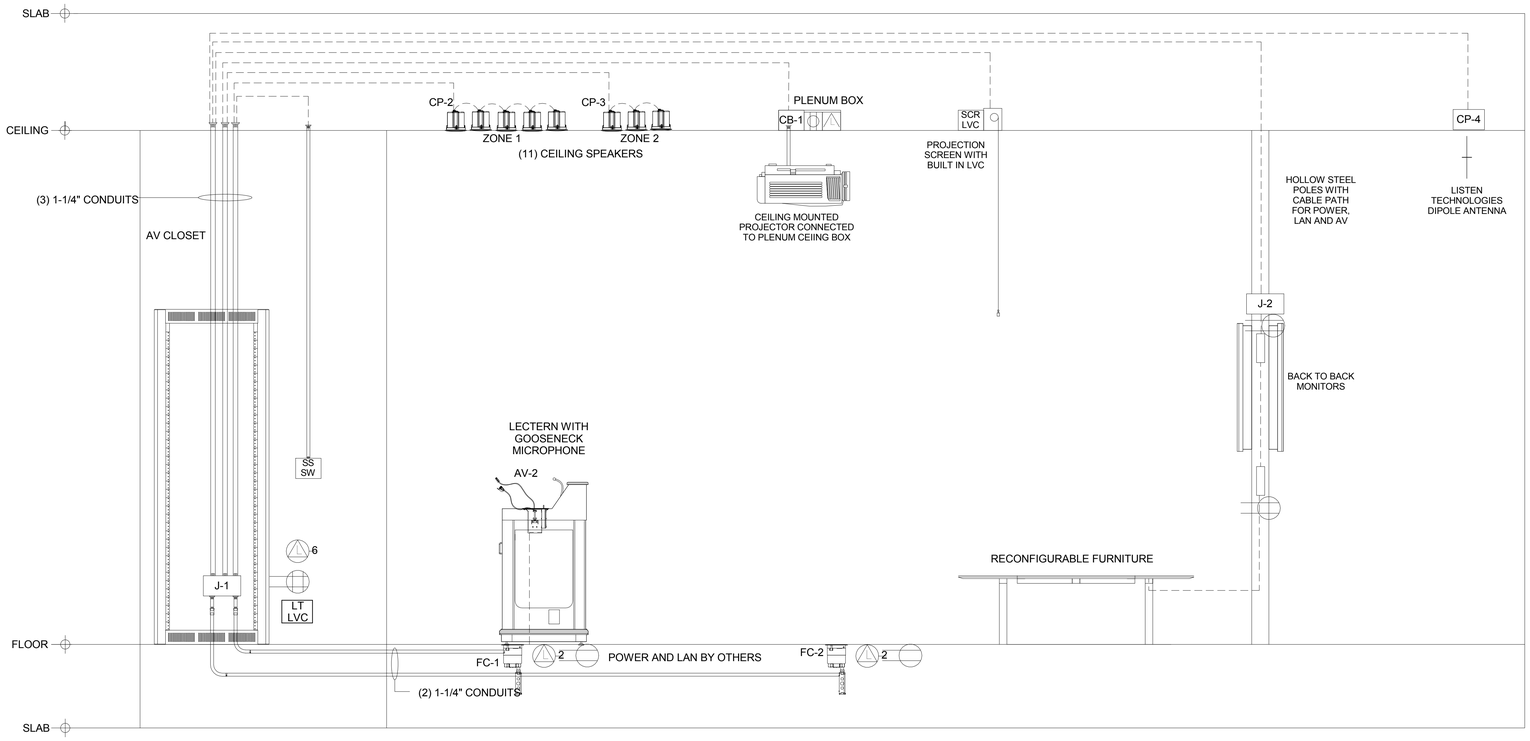
Drawing Title:

121
GATHERING/DISPLAY
PLAN AND ELEVATIONS

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 3/8" = 1'-0"

AV204

CONFORMED SET: 05/29/2015



121 GATHERING/DISPLAY SPACE CONDUIT RISER
NOT TO SCALE

JUNCTION BOX SCHEDULE					
BOX #:	SIZE:	FUNCTION:	LOCATION:	ADD'L CABLE BEYOND BOX	AFF
GATHERING ROOM					
J-1	8X8	EQUIPMENT RACK PULL AREA	SEE AV FLOOR PLAN	15'-0"	18"
J-2	2" GROMMET	IN STEEL POLE	SEE AV FLOOR PLAN	15'-0"	68"
FC-1	8" POKE-THRU	LECTERN FEED	SEE AV FLOOR PLAN	10'-0"	N/A
FC-2	8" POKE THRU	LECTERN FEED	SEE AV FLOOR PLAN	10'-0"	N/A
CB-1	MANUF	PLENUM CEILING BOX	SEE AV RCP	15'-0"	AFC
CP-2	1 GANG	CEILING CABLE PULL	SEE AV RCP	10'-0"	AFC
CP-3	1 GANG	CEILING CABLE PULL	SEE AV RCP	10'-0"	AFC
CP-4	1 GANG	CEILING CABLE PULL	SEE AV RCP	10'-0"	AFC

NOTES:

1. ALL CONDUITS TO BE 1" DIAMETER UNLESS OTHERWISE SPECIFIED.
2. ELECTRICAL CONTRACTOR TO INSTALL PULL STRING IN ALL CONDUITS
3. THIS DRAWING INDICATES JUNCTION BOX NUMBERS, CABLE NUMBERS AND CONDUIT INTERCONNECT ONLY.
4. THIS DRAWINGS DOES NOT INDICATE EXACT JUNCTION BOX LOCATION OR EXACT CONDUIT ROUTING.
5. FOR FURTHER INFORMATION, REFER TO ARCHITECTURAL AND ELECTRICAL PRINTS.
6. 120VAC SERVICES FOR EQUIPMENT RACKS, CEILING MOUNTED PROJECTORS, LCD OR PLASMA MONITORS, FLOOR BOXES WITH AV, AV WALL PLATES ETC TO SHARE SAME PHASE. THEY SHOULD NOT BE ON THE SAME PHASE AS COMPRESSORS, MOTORS OR LIGHT DIMMING SYSTEMS
7. EC TO PROVIDE ALL CONDUITS AND JUNCTION BOXES AS INDICATED.
8. SEE AV FLOOR PLAN FOR ALL AV RELATED POWER AND LAN CALL OUT LOCATIONS
9. CONFIRM FINAL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTS PRIOR TO INSTALLATION OF ALL DEVICES.

ELECTRICAL SCHEDULE		
SYM.	DESCRIPTION	
	CEILING POWER OUTLET - 120V AC	STUBBED CONDUIT
C	AC CLOCK RECEPTACLE - 120V AC	
	AC DUPLEX OUTLET - 120V AC	
	AC QUAD OUTLET - 120V AC	
L 1	LAN WITH QUANTITY	RIGID CONDUIT
P 1	ANALOG LINE WITH QUANITY	
WP	WALL PHONE	
TV	CATV	
J-	J-BOX	PLENUM CABLE
CB-	CEILING PULL AREA	
SH LVC	SHADE LVC	
LT LVC	LIGHTING LVC	FC-1 FLOOR CORE
SCR LVC	SCREEN LVC	
LT SW	LIGHT SWITCH	POKE-THRU
SS SW	SCREEN SWITCH	

NOTES:

1. ALL CONDUITS TO BE 1" DIAMETER UNLESS OTHERWISE SPECIFIED.
2. ELECTRICAL CONTRACTOR TO INSTALL PULL STRING IN ALL CONDUITS.
3. THIS DRAWING INDICATES JUNCTION BOX NUMBERS, CABLE NUMBERS AND CONDUIT INTERCONNECT ONLY.
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8. SEE AV FLOOR PLAN FOR ALL AV RELATED POWER AND LAN CALL OUT LOCATIONS.
9. CONFIRM FINAL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTS PRIOR TO INSTALLATION OF ALL DEVICES.

GENERAL NOTES:

1. ELECTRICAL SERVICES SHOWN ON THIS DRAWING ARE FOR AV REQUIREMENTS ONLY. THESE AV CIRCUITS SHOULD ALL BE ON THE SAME ELECTRICAL PHASE AND ON THEIR OWN DEDICATED CIRCUITS.
2. WALL MOUNTED LCD MONITORS SHOULD BE PROVIDED WITH WALL SUPPORT BLOCKING THAT IS RATED FOR 5 TIMES THE WEIGHT OF THE LCD MONITOR AND MOUNT.

FURNITURE NOTES:

1. TABLE WILL UTILIZE ONE POKE-THRU SUPPLIED WITH POWER/LAN BY OTHERS.
2. TABLE BOXES BY AVC. CUTOUTS PROVIDED BY TABLE MANUFACTURER.
3. TABLE SHOULD BE PROVIDED WITH CABLE MANAGEMENT FOR CLEAN CONNECTION FROM THE POKE-THRU TO THE TABLE BOX.

LIGHTING NOTES:

1. LIGHTING ZONES TO BE CIRCUITED AND DIMMABLE. FRONT ZONE OF LIGHTING CLOSEST TO DISPLAYS SHOULD BE ON A SEPARATE ZONE SO THAT IT CAN BE DIMMED OR SHUT OFF IF NECESSARY.
2. LIGHTING SYSTEM TO BE CONTROLLED VIA ROOM CRESTRON AV CONTROLS.

121 GATHERING/DISPLAY SPACE- ESTIMATED POWER CONSUMPTION & BTU LOAD CHART							
Model	Description	Power Peak	BTU	Component Depth	Component Height	Component Width	Component Weight
Lectern	See Part Description	0 W	0				
SAMSUNG 48" DM48D		132 W	450	2"	24 3/8"	42 1/4"	24.5
SONY PROJECTOR VPLFHZ700L/W		497 W	1695	16 1/2"	7"	19"	0
MIDDLE ATLANTIC SLIM 5-29	AV EQUIPMENT RACK	850 W	2899				
		1479 W	5044				

ROOM EQUIPMENT DATA	
SCREEN SIZE	69" x 110"
FURTHEST VIEWER	34'-6"

UNIVERSITY OF CONNECTICUT

ARCHITECT:
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61 Washington Street
Norwalk, Connecticut 06854
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ISSUE/REVISION:

NO:	DATE	COMMENTS

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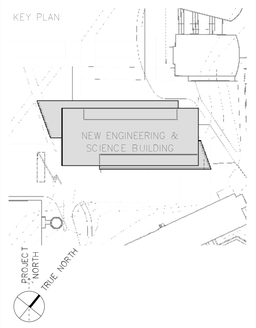
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

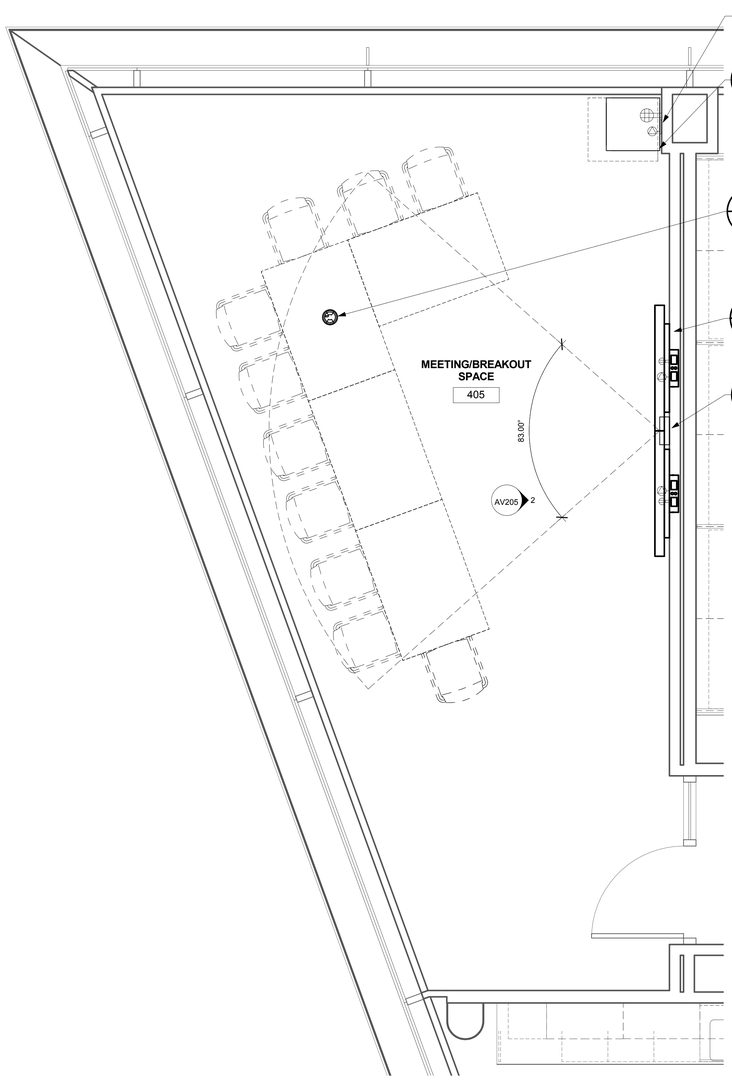
Drawing Title:

121 GATHERING/DISPLAY SPACE CONDUIT RISER

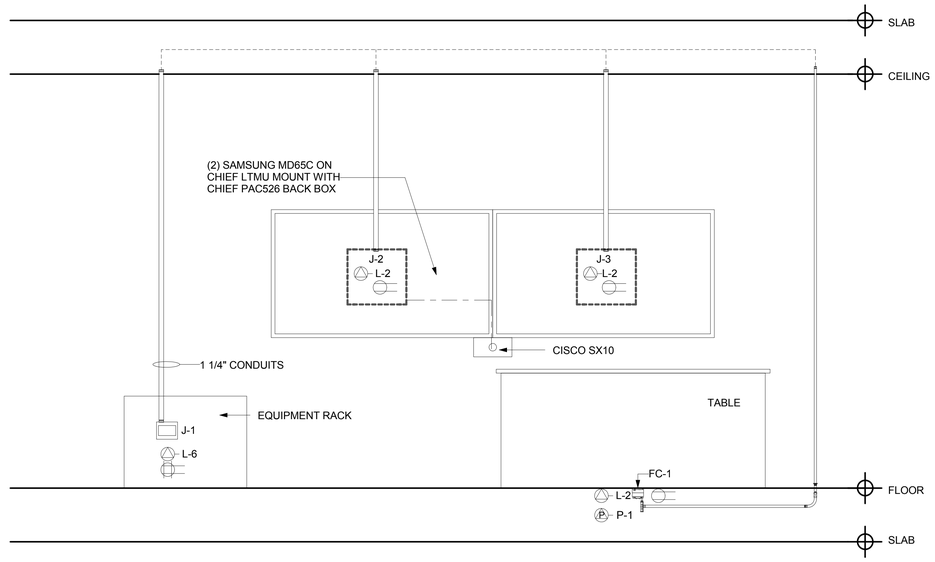
CONFORMED SET: 05/29/2015

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

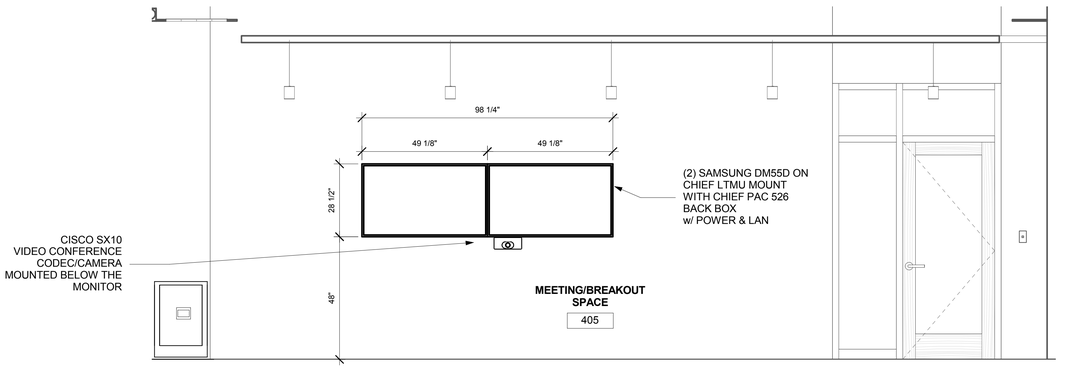
AV204.1



1 405 & 505 MEETING / BREAKOUT SPACE PLAN AV SCOPE
1/2" = 1'-0"



405 & 505 MEETING/BREAKOUT SPACE ROOM CONDUIT RISER
NOT TO SCALE



2 MEETING/BREAKOUT SPACE ROOM ELEVATION
1/2" = 1'-0"

JUNCTION BOX SCHEDULE 405 & 505 MEETING/ BREAKOUT ROOM					
BOX #:	SIZE:	FUNCTION:	LOCATION:	ADD'L CABLE BEYOND BOX	AFF
J-1	4 GANG	EQUIPMENT RACK	SEE AV FLOOR PLAN	5'-0"	18"
J-2	PAC BOX	MONITOR PULL BOX	SEE AV FLOOR PLAN	5'-0"	60"
J-3	PAC BOX	MONITOR PULL BOX	SEE AV FLOOR PLAN	5'-0"	60"
FC-1	8" POKE THRU	POKE-THRU	LOCATED ON FLOOR - SEE AV FLOOR PLAN	10'-0"	N/A

ELECTRICAL SCHEDULE		
SYM.	DESCRIPTION	
	CEILING POWER OUTLET - 120V AC	STUBBED CONDUIT
C	AC CLOCK RECEPTACLE - 120V AC	
	AC DUPLEX OUTLET - 120V AC	
	AC QUAD OUTLET - 120V AC	
L-1	LAN WITH QUANTITY	RIGID CONDUIT
P-1	ANALOG LINE WITH QUANITY	
WP	WALL PHONE	
TV	CATV	
J-	J-BOX	PLENUM CABLE
CB-	CEILING PULL AREA	
SH LVC	SHADE LVC	
LT LVC	LIGHTING LVC	FC-1 FLOOR CORE
SCR LVC	SCREEN LVC	
LT SW	LIGHT SWITCH	POKE-THRU
SS SW	SCREEN SWITCH	

NOTES:
1. ALL CONDUITS TO BE 1" DIAMETER UNLESS OTHERWISE SPECIFIED.
2. ELECTRICAL CONTRACTOR TO INSTALL PULL STRING IN ALL CONDUITS.
3. THIS DRAWING INDICATES JUNCTION BOX NUMBERS, CABLE NUMBERS AND CONDUIT INTERCONNECT ONLY.
4. THIS DRAWINGS DOES NOT INDICATE EXACT JUNCTION BOX LOCATION OR EXACT CONDUIT ROUTING.
5. FOR FURTHER INFORMATION, REFER TO ARCHITECTURAL AND ELECTRICAL PRINTS.
6. 120VAC SERVICES FOR EQUIPMENT RACKS, CEILING MOUNTED PROJECTORS, LCD OR PLASMA MONITORS, FLOOR BOXES WITH AV, AV WALL PLATES ETC TO SHARE SAME PHASE. THEY SHOULD NOT BE ON THE SAME PHASE AS COMPRESSORS, MOTORS OR LIGHT DIMMING SYSTEMS.
7. EC TO PROVIDE ALL CONDUITS AND JUNCTION BOXES AS INDICATED.
8. SEE AV FLOOR PLAN FOR ALL AV RELATED POWER AND LAN CALL OUT LOCATIONS.
9. CONFIRM FINAL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTS PRIOR TO INSTALLATION OF ALL DEVICES.

GENERAL NOTES:
1. ELECTRICAL SERVICES SHOWN ON THIS DRAWING ARE FOR AV REQUIREMENTS ONLY. THESE AV CIRCUITS SHOULD ALL BE ON THE SAME ELECTRICAL PHASE AND ON THEIR OWN DEDICATED CIRCUITS.
2. WALL MOUNTED LCD MONITORS SHOULD BE PROVIDED WITH WALL SUPPORT BLOCKING THAT IS RATED FOR 5 TIMES THE WEIGHT OF THE LCD MONITOR AND MOUNT.

FURNITURE NOTES:
1. TABLE WILL UTILIZE ONE POKE-THRU SUPPLIED WITH POWER/LAN BY OTHERS.
2. TABLE BOXES BY AVC. CUTOUTS PROVIDED BY TABLE MANUFACTURER.
3. TABLE SHOULD BE PROVIDED WITH CABLE MANAGEMENT FOR CLEAN CONNECTION FROM THE POKE-THRU TO THE TABLE BOX.

LIGHTING NOTES:
1. LIGHTING ZONES TO BE CIRCUITED AND DIMMABLE. FRONT ZONE OF LIGHTING CLOSEST TO DISPLAYS SHOULD BE ON A SEPARATE ZONE SO THAT IT CAN BE DIMMED OR SHUT OFF IF NECESSARY.
2. LIGHTING SYSTEM TO BE CONTROLLED VIA ROOM CRESTRON AV CONTROLS.

405 & 505 MEETING/ BREAKOUT ROOM - ESTIMATED POWER CONSUMPTION & BTU LOAD CHART						
ROOM	EQUIPMENT	WATTS (EACH)	QTY.	BTU (EACH)	BTU (TOTAL)	WEIGHT (EACH)
MEETING/ BREAKOUT	SAMSUNG UD55C	160	2	549	1098	52.8 LBS
MEETING/ BREAKOUT	EQUIPMENT RACK	1480	1	1480	1480	
					2578	

ROOM EQUIPMENT DATA	
SCREEN SIZE	(2) 55" DIAGONAL
FURTHEST VIEWER	32'-6"

UNIVERSITY OF CONNECTICUT

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ISSUE/REVISION:

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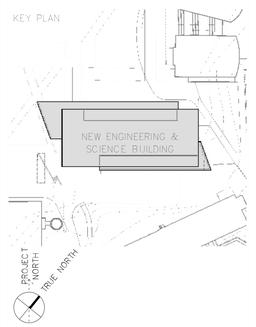
KEY PLAN



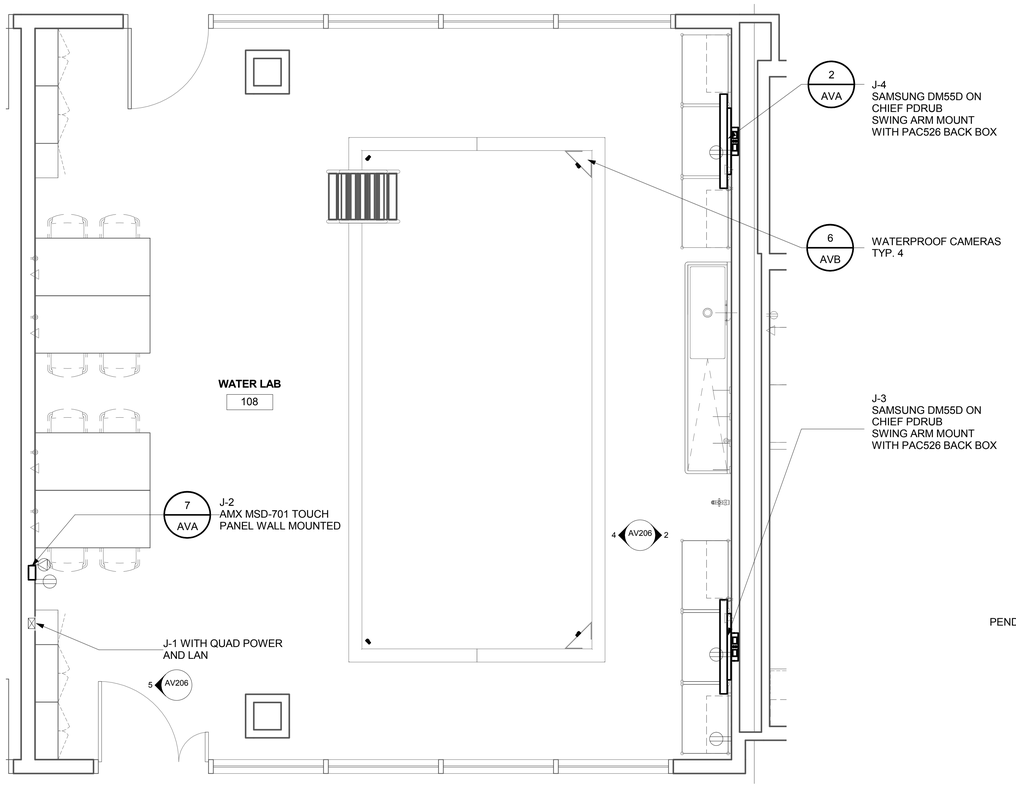
Project:
NEW ENGINEERING AND SCIENCE BUILDING

Drawing Title:
405 & 505 MEETING/BREAKOUT SPACE ROOM

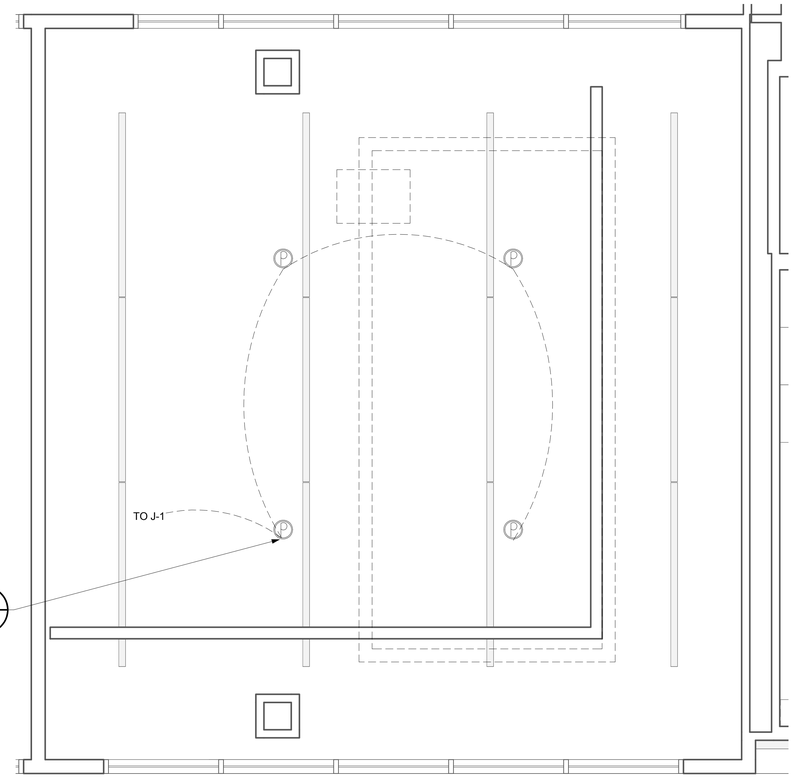
CONFORMED SET: 05/29/2015

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

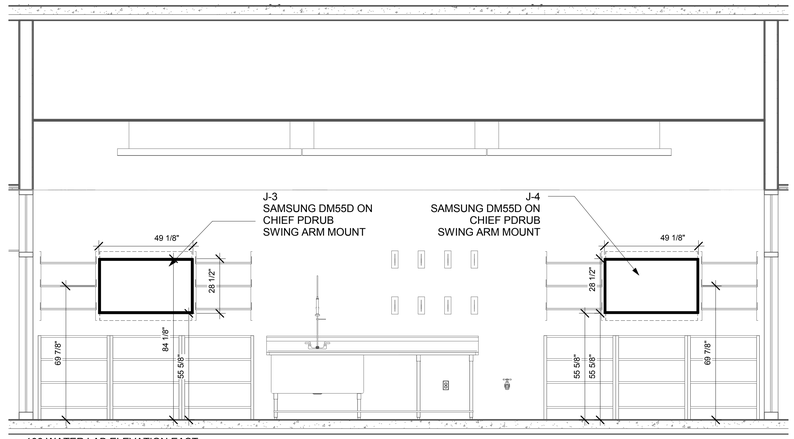
AV205



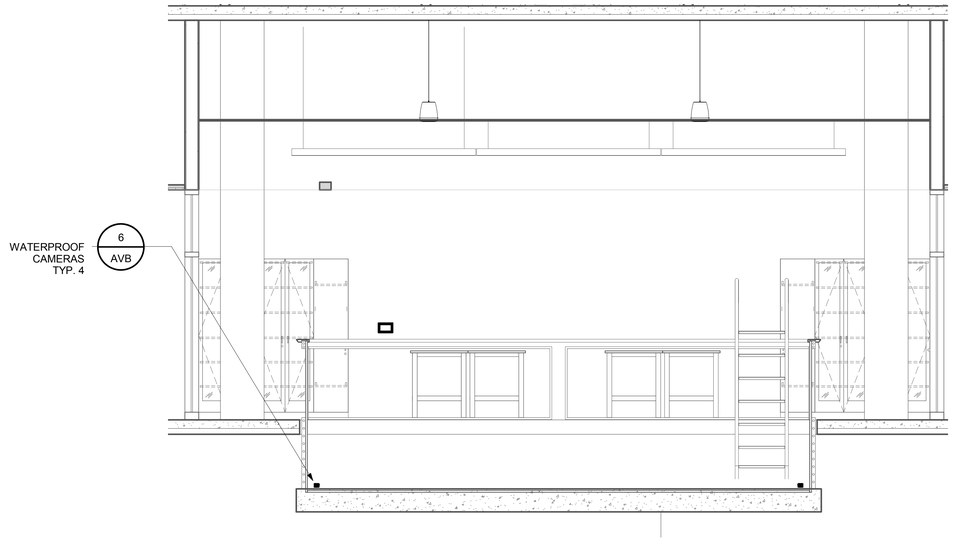
1 108 WATER LAB
3/8" = 1'-0"



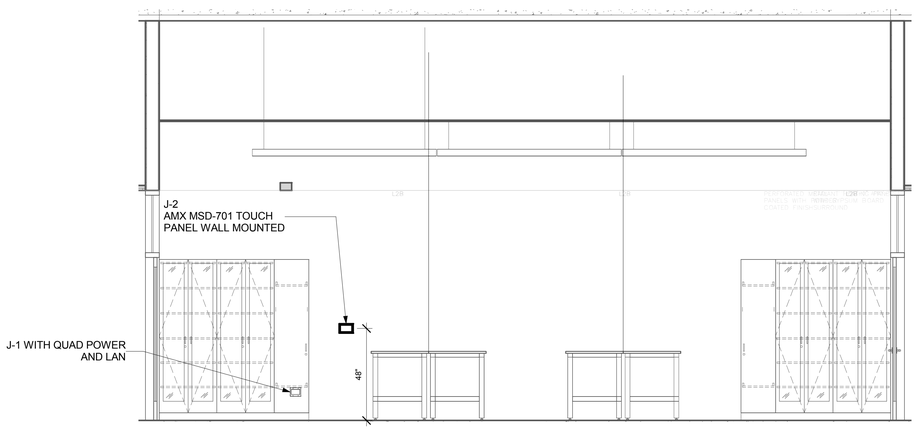
3 108 WATER LAB CEILING PLAN
3/8" = 1'-0"



2 108 WATER LAB ELEVATION EAST
3/8" = 1'-0"



4 Elevation 1 - c
3/8" = 1'-0"



5 108 WATER LAB ELEVATION WEST
3/8" = 1'-0"

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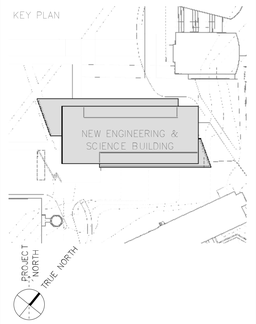
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

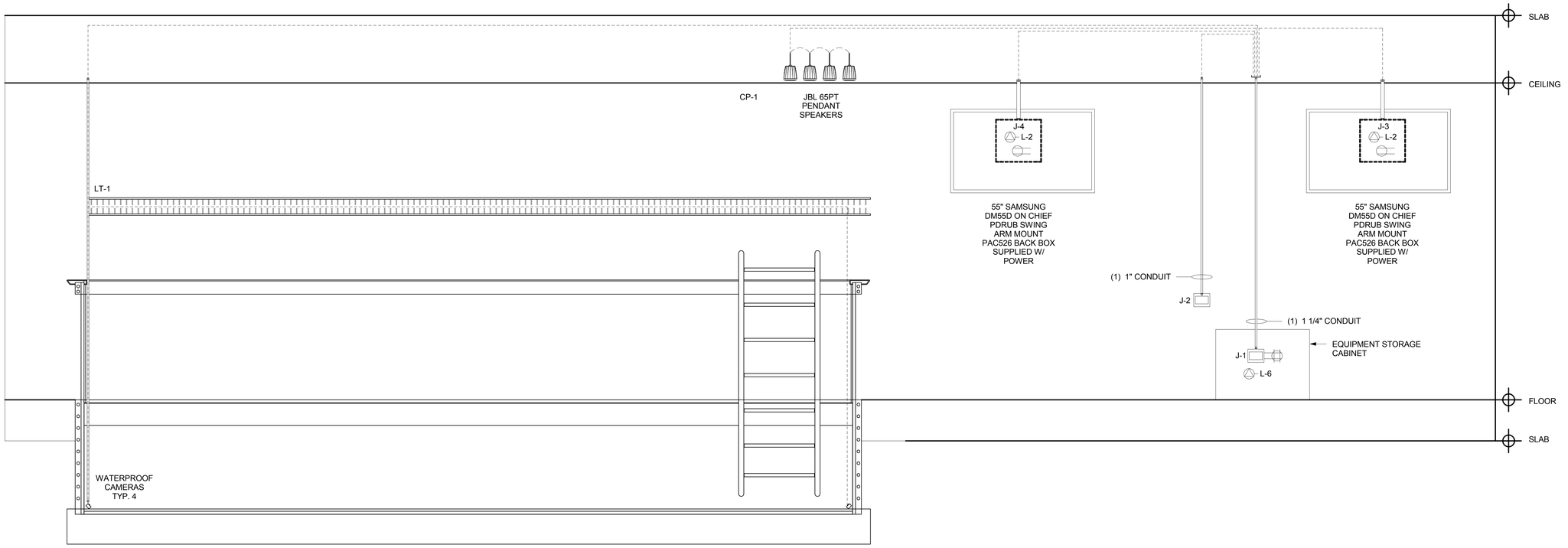
Drawing Title:

108 WATER LAB PLAN, RCP, & ELEVATIONS

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: 3/8" = 1'-0"

AV206

CONFORMED SET: 05/29/2015



108 WATER ROOM CONDUIT RISER
NTS

JUNCTION BOX SCHEDULE 104 MEETING ROOM					
BOX #:	SIZE:	FUNCTION:	LOCATION:	ADD'L CABLE BEYOND BOX	AFF
J-1	8 x 8	EQUIPMENT RACK	SEE AV FLOOR PLAN	5'-0"	18"
J-2	MANUF.	TOUCH PANEL	SEE AV FLOOR PLAN	5'-0"	60"
J-3	PAC	MONITOR PULL BOX	SEE AV FLOOR PLAN	10'-0"	70"
J-4	PAC	MONITOR PULL BOX	SEE AV FLOOR PLAN	10'-0"	70"
CP-1	1 GANG	SPEAKER PULL	SEE AV FLOOR PLAN	15'-0"	AFC
LT-1	LADDER TRAY	CAMERA PULL	EXISTING LADDER TRAY	25'-0"	TBD

NOTES:

1. ALL CONDUITS TO BE 1" DIAMETER UNLESS OTHERWISE SPECIFIED.
2. ELECTRICAL CONTRACTOR TO INSTALL PULL STRING IN ALL CONDUITS.
3. THIS DRAWING INDICATES JUNCTION BOX NUMBERS, CABLE NUMBERS AND CONDUIT INTERCONNECT ONLY.
4. THIS DRAWINGS DOES NOT INDICATE EXACT JUNCTION BOX LOCATION OR EXACT CONDUIT ROUTING.
5. FOR FURTHER INFORMATION, REFER TO ARCHITECTURAL AND ELECTRICAL PRINTS.
6. 120VAC SERVICES FOR EQUIPMENT RACKS, CEILING MOUNTED PROJECTORS, LCD OR PLASMA MONITORS, FLOOR BOXES WITH AV, AV WALL PLATES ETC TO SHARE SAME PHASE. THEY SHOULD NOT BE ON THE SAME PHASE AS COMPRESSORS, MOTORS OR LIGHT DIMMING SYSTEMS.
7. EC TO PROVIDE ALL CONDUITS AND JUNCTION BOXES AS INDICATED.
8. SEE AV FLOOR PLAN FOR ALL AV RELATED POWER AND LAN CALL OUT LOCATIONS.
9. CONFIRM FINAL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTS PRIOR TO INSTALLATION OF ALL DEVICES.

ELECTRICAL SCHEDULE		
SYM.	DESCRIPTION	
	CEILING POWER OUTLET - 120V AC	STUBBED CONDUIT
C	AC CLOCK RECEPTACLE - 120V AC	
	AC DUPLEX OUTLET - 120V AC	
	AC QUAD OUTLET - 120V AC	
L 1	LAN WITH QUANTITY	RIGID CONDUIT
P 1	ANALOG LINE WITH QUANITY	
WP	WALL PHONE	
TV	CATV	
J-	J-BOX	PLENUM CABLE
CB-	CEILING PULL AREA	
SH LVC	SHADE LVC	
LT LVC	LIGHTING LVC	FC-1 FLOOR CORE
SCR LVC	SCREEN LVC	
LT SW	LIGHT SWITCH	POKE-THRU
SS SW	SCREEN SWITCH	

GENERAL NOTES:

1. ELECTRICAL SERVICES SHOWN ON THIS DRAWING ARE FOR AV REQUIREMENTS ONLY. THESE AV CIRCUITS SHOULD ALL BE ON THE SAME ELECTRICAL PHASE AND ON THEIR OWN DEDICATED CIRCUITS.

FURNITURE NOTES:

1. MONITORS WILL BE MOUNTED ON SWING ARM MOUNTS WITH THE ABILITY TO MOVE TOWARD GLASS AS NEEDED

LIGHTING NOTES:

1. LIGHTING ZONES TO BE CIRCUITED AND DIMMABLE. FRONT ZONE OF LIGHTING CLOSEST TO DISPLAYS SHOULD BE ON A SEPARATE ZONE SO THAT IT CAN BE DIMMED OR SHUT OFF IF NECESSARY.

108 WATER LAB - ESTIMATED POWER CONSUMPTION & BTU LOAD CHART						
ROOM	EQUIPMENT	WATTS (EACH)	QTY.	BTU (EACH)	BTU (TOTAL)	WEIGHT (EACH)
108 WATER LAB	SAMSUNG 48" DM48D	175 W	2	597	1194	LBS
108 WATER LAB	AV EQUIPMENT RACK	400 W	1	1364	1364	

ROOM EQUIPMENT DATA	
SCREEN SIZE	(2) 55" DIAGONAL
FURTHEST VIEWER	N/A

CONFORMED SET: 05/29/2015

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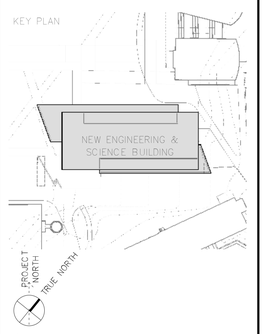
KEY PLAN



Project:

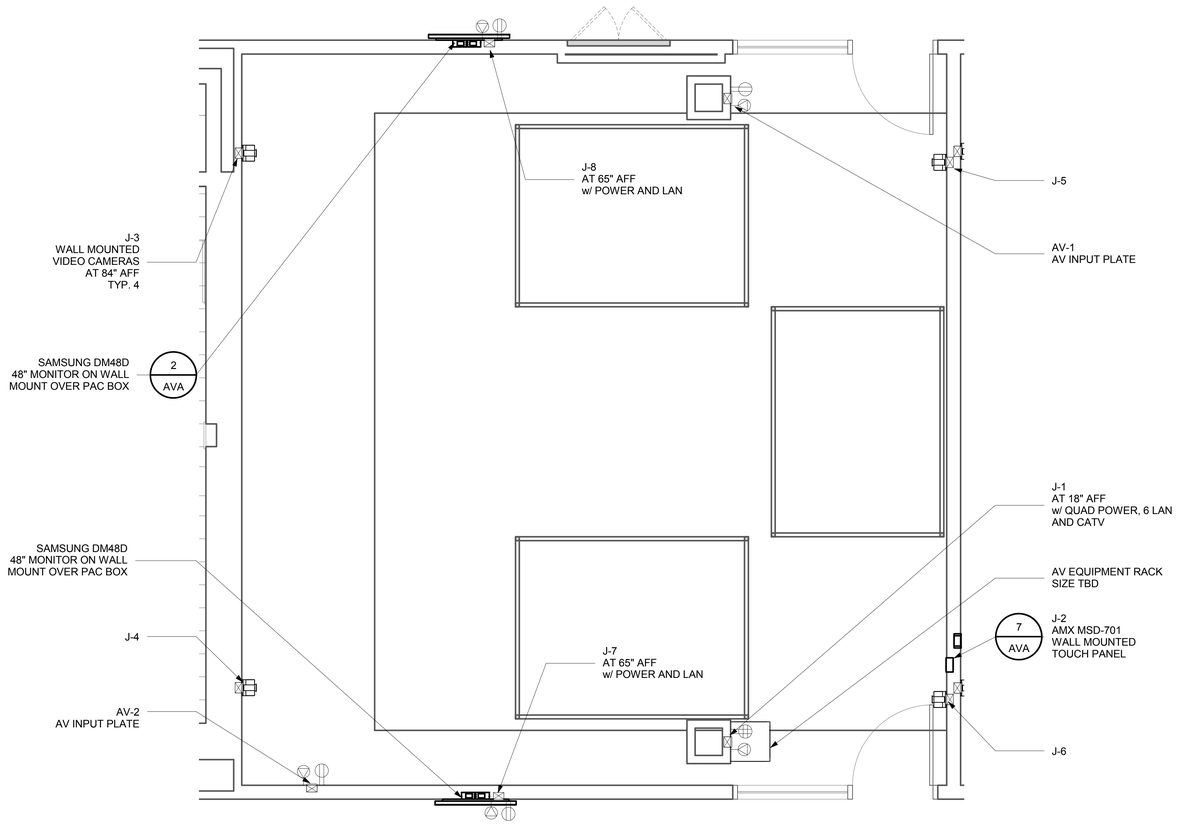
NEW ENGINEERING AND SCIENCE BUILDING

Drawing Title:

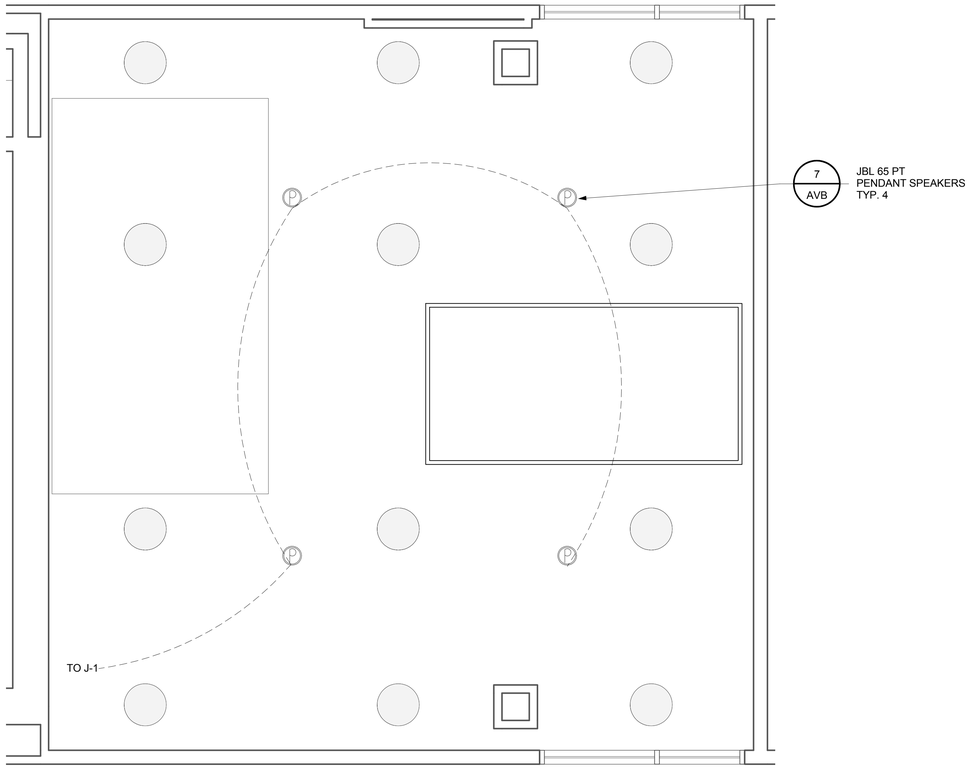
108 WATER LAB CONDUIT RISER & SECTION

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

AV206.1



1 106 VIRTUAL REALITY PLAN
3/8" = 1'-0"



2 106 VIRTUAL REALITY CEILING PLAN
3/8" = 1'-0"

106 VIRTUAL REALITY ROOM - ESTIMATED POWER CONSUMPTION & BTU LOAD CHART						
ROOM	EQUIPMENT	WATTS (EACH)	QTY.	BTU (EACH)	BTU (TOTAL)	WEIGHT (EACH)
106 VIRTUAL REALITY ROOM	SAMSUNG 48" DM48D	175 W	2	597	1194	LBS
106 VIRTUAL REALITY ROOM	AV EQUIPMENT RACK	400 W	1	1364	1364	

ROOM EQUIPMENT DATA	
SCREEN SIZE	(2) 48" DIAGONAL
FURTHEST VIEWER	N/A

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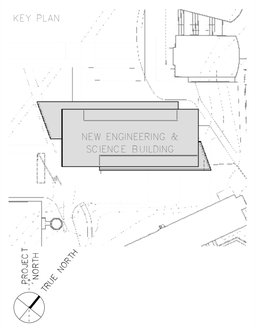
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

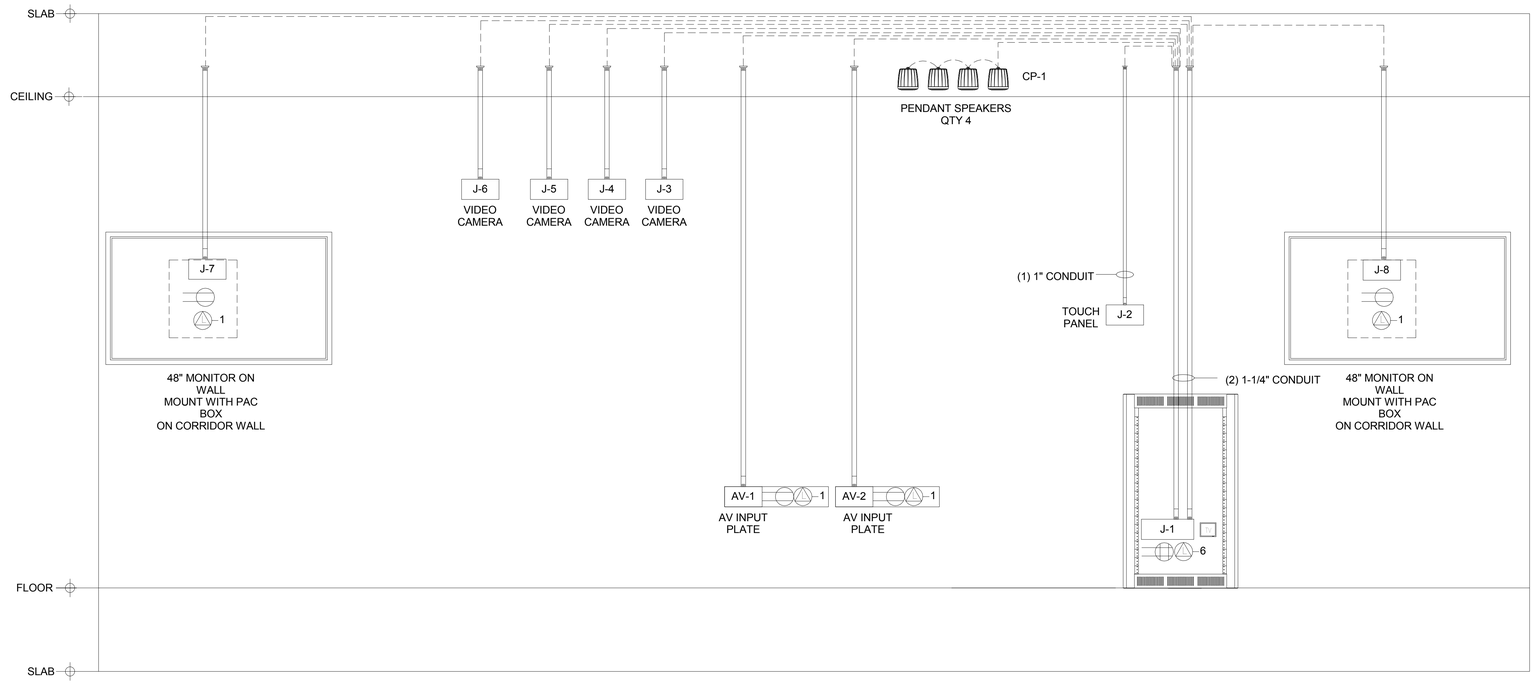
Drawing Title:

106 VIRTUAL REALITY LAB PLAN & RCP

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

AV208

CONFORMED SET: 05/29/2015



1 106 VIRTUAL REALITY CONDUIT RISER
NTS

JUNCTION BOX SCHEDULE					
BOX #:	SIZE:	FUNCTION:	LOCATION:	ADD'L CABLE BEYOND BOX	AFF
VIRTUAL REALITY LAB 106					
J-1	8 X 8	EQUIPMENT RACK PULL AREA	SEE AV FLOOR PLAN	15'-0"	18"
J-2	MANUF	TOUCH PANEL ON COLUMN	SEE AV FLOOR PLAN	5'-0"	55"
J-3	2 GANG	CAMERA FEED	SEE AV FLOOR PLAN	15'-0"	84"
J-4	2 GANG	CAMERA FEED	SEE AV FLOOR PLAN	15'-0"	84"
J-5	2 GANG	CAMERA FEED	SEE AV FLOOR PLAN	15'-0"	84"
J-6	2 GANG	CAMERA FEED	SEE AV FLOOR PLAN	15'-0"	84"
J-7	PAC	MONITOR PULL- IN CORRIDOR	SEE AV FLOOR PLAN	10'-0"	65"
J-8	PAC	MONITOR PULL - IN CORRIDOR	SEE AV FLOOR PLAN	10'-0"	65"
AV-1	4 GANG	AV INPUT PLATE	SEE AV FLOOR PLAN	6'-0"	18"
AV-2	4 GANG	AV INPUT PLATE	SEE AV FLOOR PLAN	6'-0"	18"
CP-1	1 GANG	SPEAKER PULL	SEE AV RCT	15'-0"	AFC

NOTES:
1. ALL CONDUITS TO BE 1" DIAMETER UNLESS OTHERWISE SPECIFIED.
2. ELECTRICAL CONTRACTOR TO INSTALL PULL STRING IN ALL CONDUITS
3. THIS DRAWING INDICATES JUNCTION BOX NUMBERS, CABLE NUMBERS AND CONDUIT INTERCONNECT ONLY.
4. THIS DRAWINGS DOES NOT INDICATE EXACT JUNCTION BOX LOCATION OR EXACT CONDUIT ROUTING.
5. FOR FURTHER INFORMATION, REFER TO ARCHITECTURAL AND ELECTRICAL PRINTS.
6. 120VAC SERVICES FOR EQUIPMENT RACKS, CEILING MOUNTED PROJECTORS, LCD OR PLASMA MONITORS, FLOOR BOXES WITH AV, AV WALL PLATES ETC TO SHARE SAME PHASE. THEY SHOULD NOT BE ON THE SAME PHASE AS COMPRESSORS, MOTORS OR LIGHT DIMMING SYSTEMS
7. EC TO PROVIDE ALL CONDUITS AND JUNCTION BOXES AS INDICATED.
8. SEE AV FLOOR PLAN FOR ALL AV RELATED POWER AND LAN CALL OUT LOCATIONS
9. CONFIRM FINAL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTS PRIOR TO INSTALLATION OF ALL DEVICES.

ELECTRICAL SCHEDULE		
SYM.	DESCTIPTION	
	CEILING POWER OUTLET - 120V AC	STUBBED CONDUIT
C	RECESSED POWER - 120V AC	
	AC DUPLEX OUTLET - 120V AC	
	AC QUAD OUTLET - 120V AC	
1	LAN WITH QUANTITY	RIGID CONDUIT
1	ANALOG LINE WITH QUANTITY	
WP	WALL PHONE	
TV	CATV	
J-	J-BOX	PLENUM CABLE
CB-	CEILING PULL AREA	
SH LVC	SHADE LVC	
LT LVC	LIGHTING LVC	FC-1 FLOOR CORE
SCR LVC	SCREEN LVC	
LT SW	LIGHT SWITCH	POKE-THRU
SS SW	SCREEN SWITCH	

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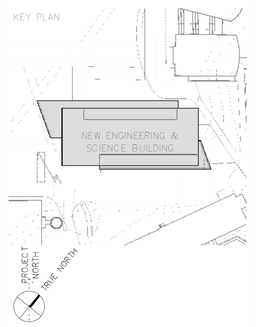
KEY PLAN



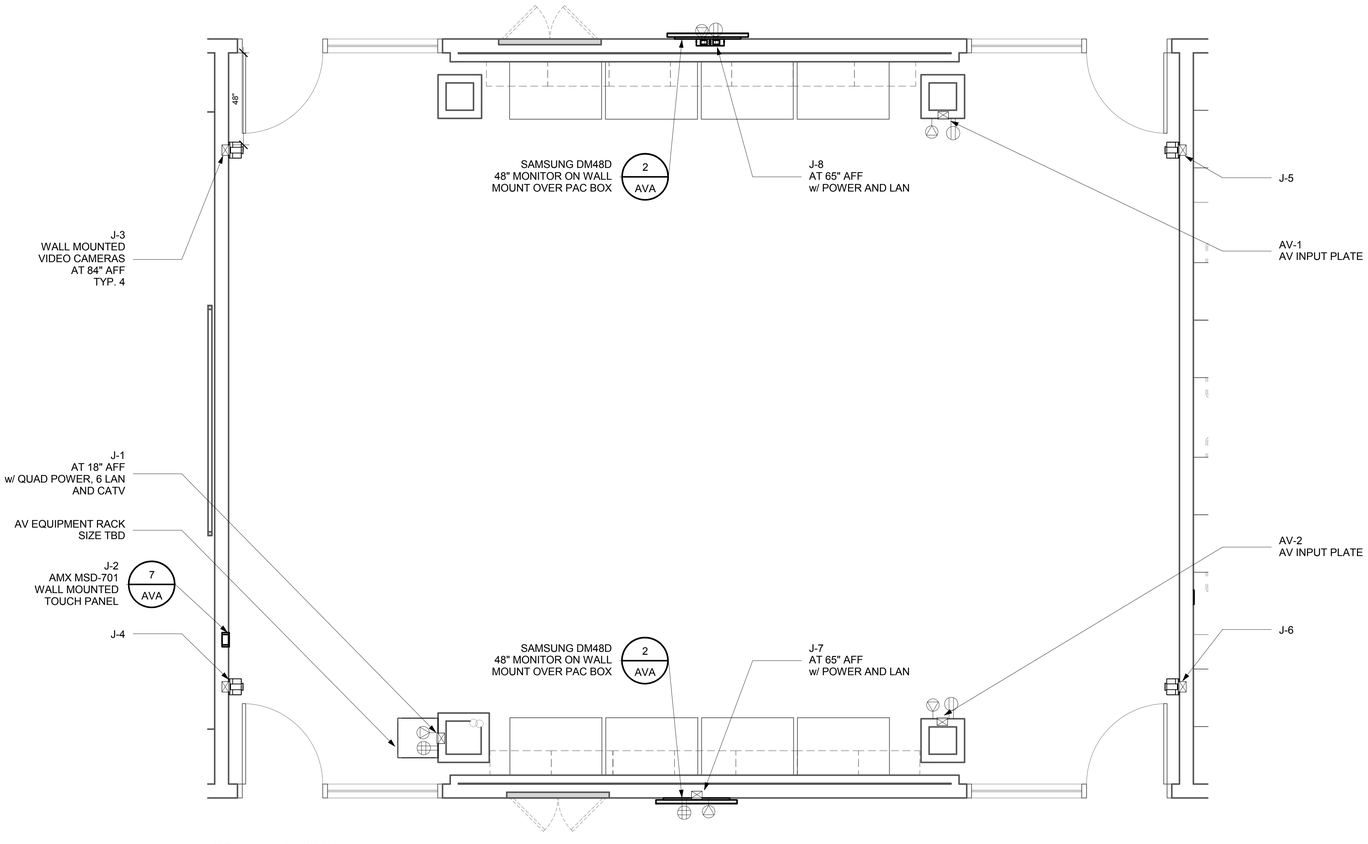
Project:
NEW ENGINEERING AND SCIENCE BUILDING

Drawing Title:
106 VIRTUAL REALITY LAB CONDUIT RISER

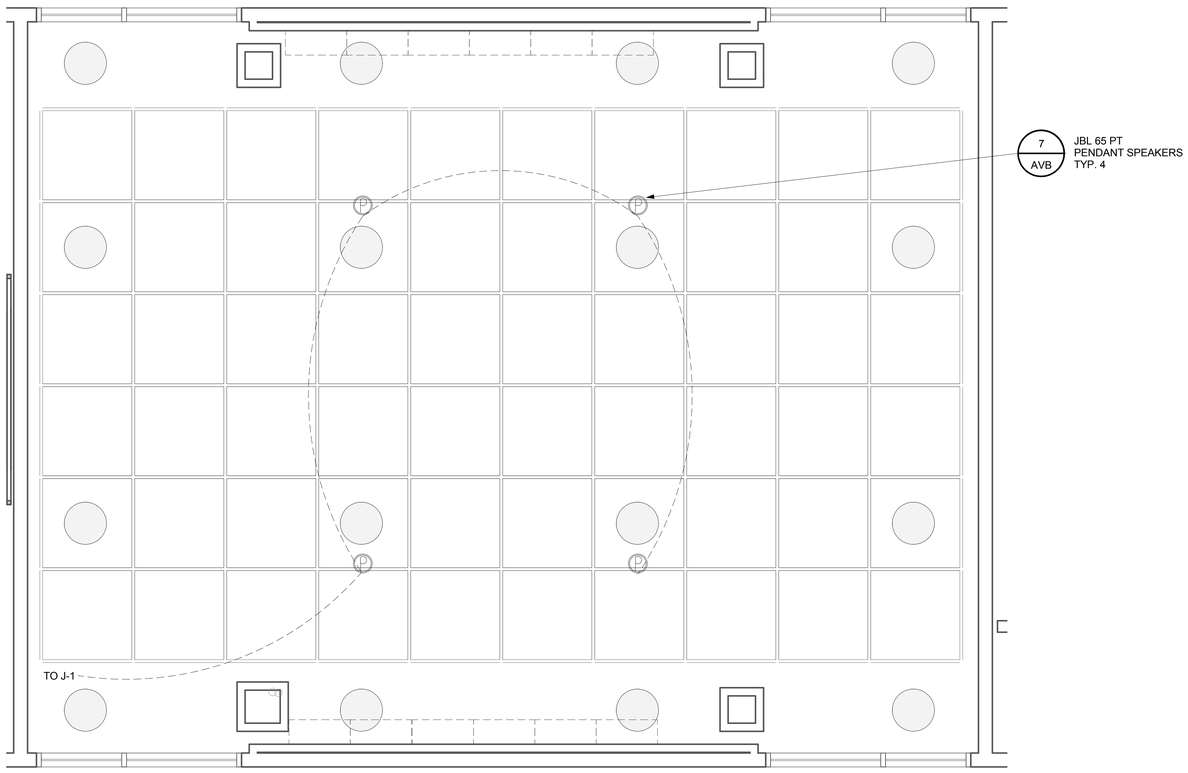
PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: NTS

AV208.1

CONFORMED SET: 05/29/2015



1 107 CYBER PHYSICS PLAN
3/8" = 1'-0"



2 107 CYBER PHYSICS CEILING PLAN
3/8" = 1'-0"

107 CYBER PHYSICS ROOM - ESTIMATED POWER CONSUMPTION & BTU LOAD CHART						
ROOM	EQUIPMENT	WATTS (EACH)	QTY.	BTU (EACH)	BTU (TOTAL)	WEIGHT (EACH)
107 CYBER PHYSICS	SAMSUNG 48" DM48D	175 W	2	597	1194	LBS
107 CYBER PHYSICS	AV EQUIPMENT RACK	400 W	1	1364	1364	

ROOM EQUIPMENT DATA	
SCREEN SIZE	(2) 48" DIAGONAL
FURTHEST VIEWER	N/A

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ISSUE/REVISION:

NO.	DATE	COMMENTS

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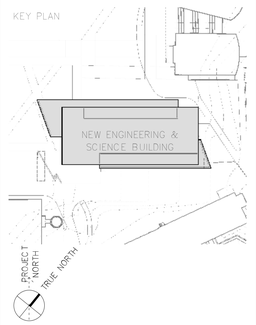
KEY PLAN



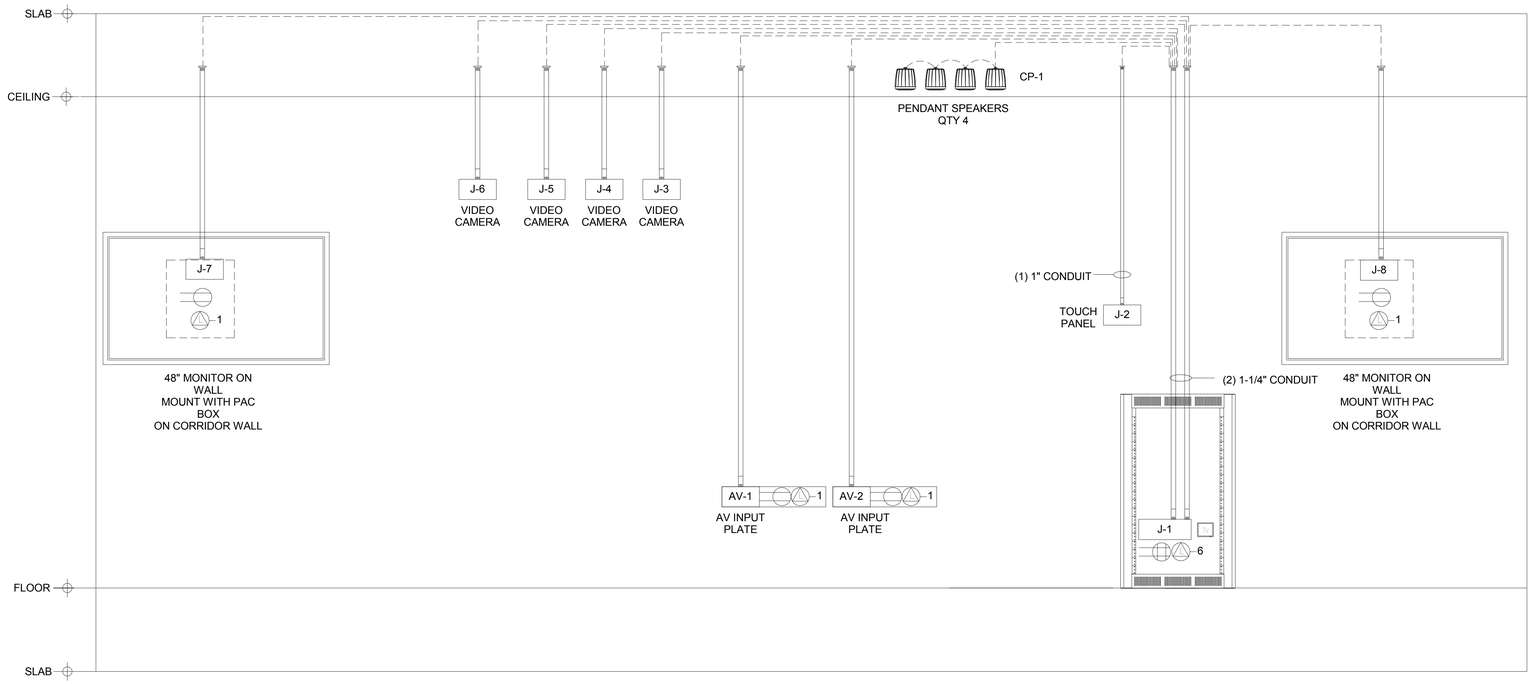
Project:
NEW ENGINEERING AND SCIENCE BUILDING

Drawing Title:
107 CYBER PHYSICS LAB PLAN & RCP

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

AV209

CONFORMED SET: 05/29/2015



1 107 CYBER PHYSICS CONDUIT RISER
NTS

JUNCTION BOX SCHEDULE					
BOX #:	SIZE:	FUNCTION:	LOCATION:	ADD'L CABLE BEYOND BOX	AFF
VIRTUAL REALITY LAB 106					
J-1	8 X 8	EQUIPMENT RACK PULL AREA	SEE AV FLOOR PLAN	15'-0"	18"
J-2	MANUF	TOUCH PANEL ON COLUMN	SEE AV FLOOR PLAN	5'-0"	55"
J-3	2 GANG	CAMERA FEED	SEE AV FLOOR PLAN	15'-0"	84"
J-4	2 GANG	CAMERA FEED	SEE AV FLOOR PLAN	15'-0"	84"
J-5	2 GANG	CAMERA FEED	SEE AV FLOOR PLAN	15'-0"	84"
J-6	2 GANG	CAMERA FEED	SEE AV FLOOR PLAN	15'-0"	84"
J-7	PAC	MONITOR PULL- IN CORRIDOR	SEE AV FLOOR PLAN	10'-0"	65"
J-8	PAC	MONITOR PULL - IN CORRIDOR	SEE AV FLOOR PLAN	10'-0"	65"
AV-1	4 GANG	AV INPUT PLATE	SEE AV FLOOR PLAN	6'-0"	18"
AV-2	4 GANG	AV INPUT PLATE	SEE AV FLOOR PLAN	6'-0"	18"
CP-1	1 GANG	SPEAKER PULL	SEE AV RCT	15'-0"	AFC

NOTES:
1. ALL CONDUITS TO BE 1" DIAMETER UNLESS OTHERWISE SPECIFIED.
2. ELECTRICAL CONTRACTOR TO INSTALL PULL STRING IN ALL CONDUITS
3. THIS DRAWING INDICATES JUNCTION BOX NUMBERS, CABLE NUMBERS AND CONDUIT INTERCONNECT ONLY.
4. THIS DRAWINGS DOES NOT INDICATE EXACT JUNCTION BOX LOCATION OR EXACT CONDUIT ROUTING.
5. FOR FURTHER INFORMATION, REFER TO ARCHITECTURAL AND ELECTRICAL PRINTS.
6. 120VAC SERVICES FOR EQUIPMENT RACKS, CEILING MOUNTED PROJECTORS, LCD OR PLASMA MONITORS, FLOOR BOXES WITH AV, AV WALL PLATES ETC TO SHARE SAME PHASE. THEY SHOULD NOT BE ON THE SAME PHASE AS COMPRESSORS, MOTORS OR LIGHT DIMMING SYSTEMS
7. EC TO PROVIDE ALL CONDUITS AND JUNCTION BOXES AS INDICATED.
8. SEE AV FLOOR PLAN FOR ALL AV RELATED POWER AND LAN CALL OUT LOCATIONS
9. CONFIRM FINAL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTS PRIOR TO INSTALLATION OF ALL DEVICES.

ELECTRICAL SCHEDULE		
SYM.	DESCTIPTION	
	CEILING POWER OUTLET - 120V AC	STUBBED CONDUIT
C	RECESSED POWER - 120V AC	
	AC DUPLEX OUTLET - 120V AC	
	AC QUAD OUTLET - 120V AC	
1	LAN WITH QUANTITY	RIGID CONDUIT
1	ANALOG LINE WITH QUANTITY	
WP	WALL PHONE	
TV	CATV	
J-	J-BOX	PLENUM CABLE
CB-	CEILING PULL AREA	
SH LVC	SHADE LVC	
LT LVC	LIGHTING LVC	FC-1 FLOOR CORE
SCR LVC	SCREEN LVC	
LT SW	LIGHT SWITCH	POKE-THRU
SS SW	SCREEN SWITCH	

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ISSUE/REVISION:

NO.	DATE	COMMENTS

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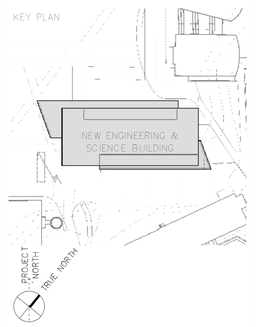
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

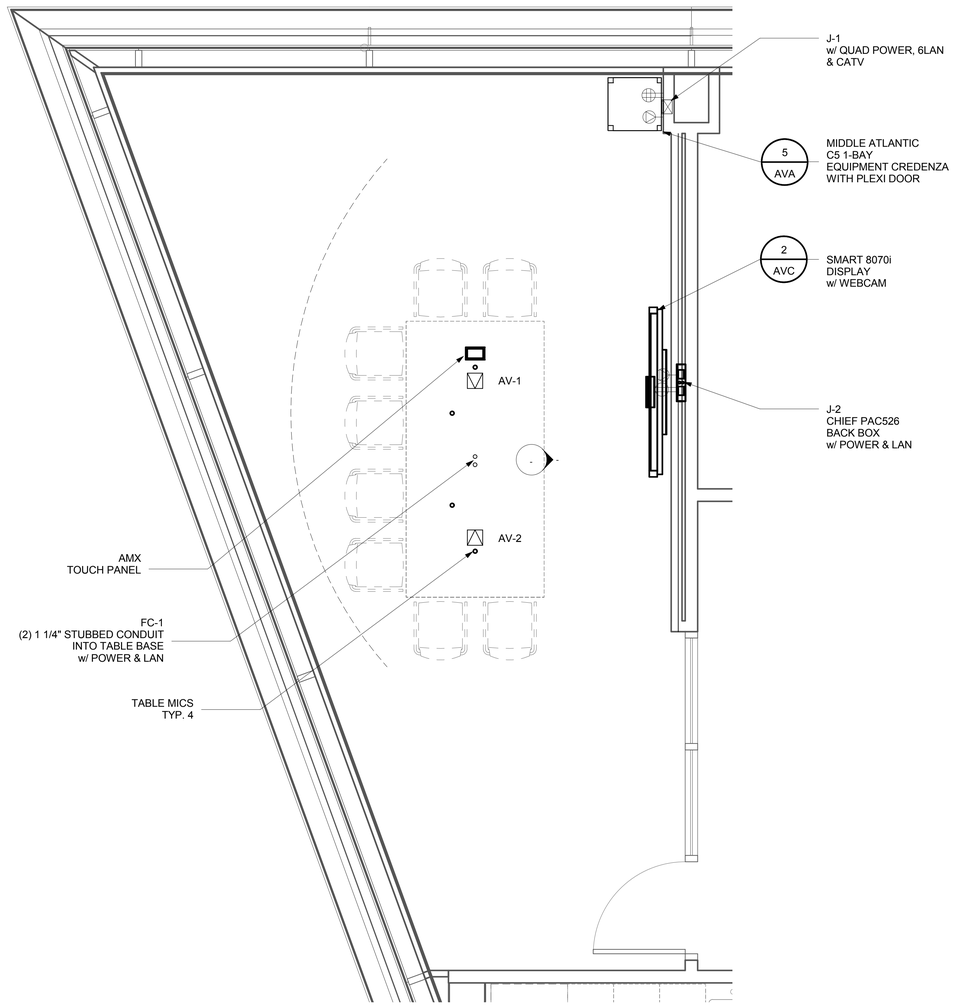
Drawing Title:

107 CYBER PHYSICS LAB CONDUIT RISER

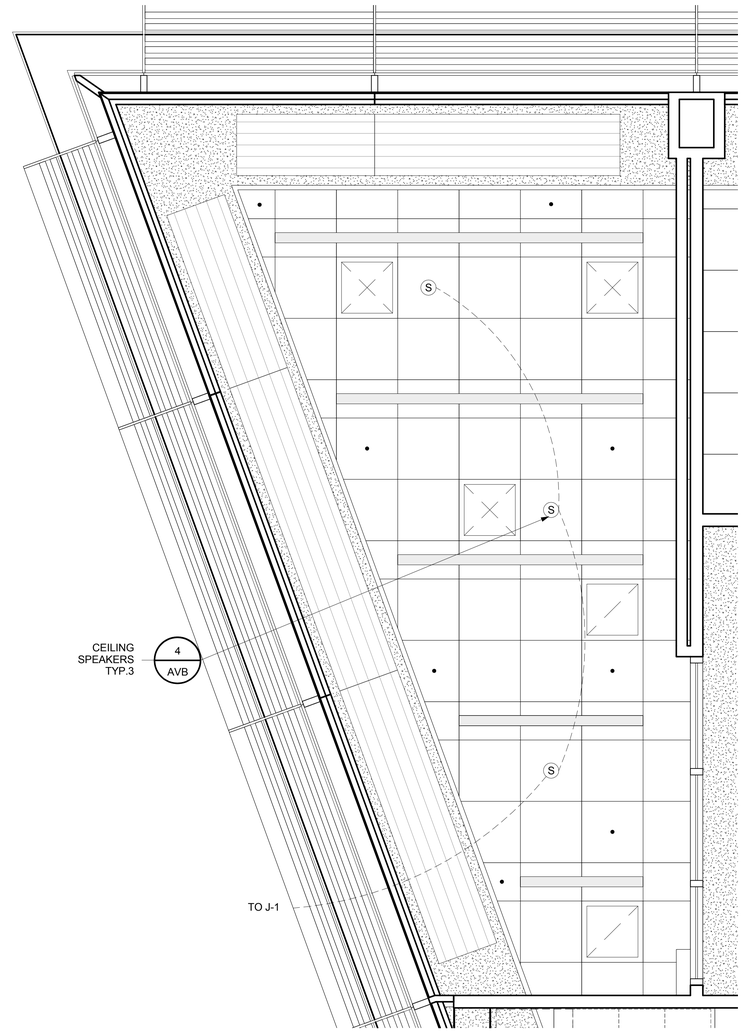
PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: NTS

AV209.1

CONFORMED SET: 05/29/2015



1 PANTRY/ LUNCHROOM PLAN
1/2" = 1'-0"



2 CONFERENCE ROOM RCP
1/2" = 1'-0"

JUNCTION BOX SCHEDULE					
BOX #:	SIZE:	FUNCTION:	LOCATION:	ADD'L CABLE BEYOND BOX	AFF
CONFERENCE ROOM 305					
J-1	4 GANG	EQUIPMENT RACK PULL AREA	SEE AV FLOOR PLAN	15'-0"	18"
J-2	PAC	MONITOR PULL AREA ON FRONT WALL	SEE AV FLOOR PLAN	5'-0"	65"
AV-1	N/A	TABLE BOX	SEE AV FLOOR PLAN	6'-0"	N/A
AV-2	N/A	TABLE BOX	SEE AV FLOOR PLAN	6'-0"	N/A
CP-1	1 GANG	SPEAKER PULL	SEE AV RCP	15'-0"	AFC
FC-1	STUB CONDUIT	TABLE PULL	SEE AV FLOOR PLAN	15'-0"	N/A

NOTES:
1. ALL CONDUITS TO BE 1" DIAMETER UNLESS OTHERWISE SPECIFIED.
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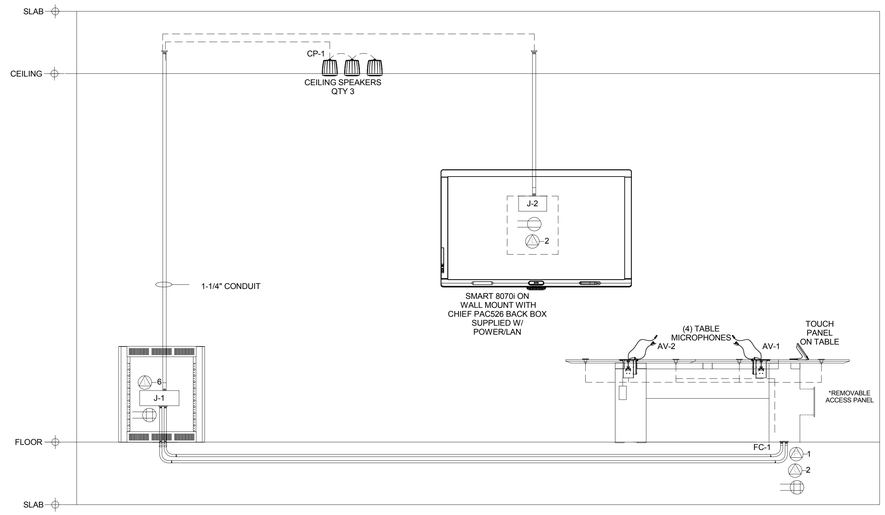
7. EC TO PROVIDE ALL CONDUITS AND JUNCTION BOXES AS INDICATED.
8. SEE AV FLOOR PLAN FOR ALL AV RELATED POWER AND LAN CALL OUT LOCATIONS
9. CONFIRM FINAL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTS PRIOR TO INSTALLATION OF ALL DEVICES.

ELECTRICAL SCHEDULE		
SYM.	DESCTIPTION	
	CEILING POWER OUTLET - 120V AC	STUBBED CONDUIT
C	RECESSED POWER - 120V AC	
	AC DUPLEX OUTLET - 120V AC	
	AC QUAD OUTLET - 120V AC	
1	LAN WITH QUANTITY	RIGID CONDUIT
1	ANALOG LINE WITH QUANTITY	
WP	WALL PHONE	
TV	CATV	
J-	J-BOX	PLENUM CABLE
CB-	CEILING PULL AREA	
SH LVC	SHADE LVC	
LT LVC	LIGHTING LVC	FLOOR CORE
SCR LVC	SCREEN LVC	
LT SW	LIGHT SWITCH	POKE-THRU
SS SW	SCREEN SWITCH	



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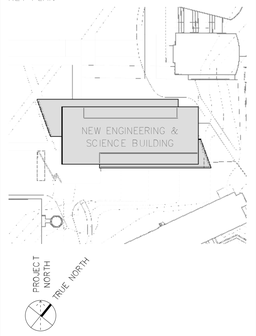
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

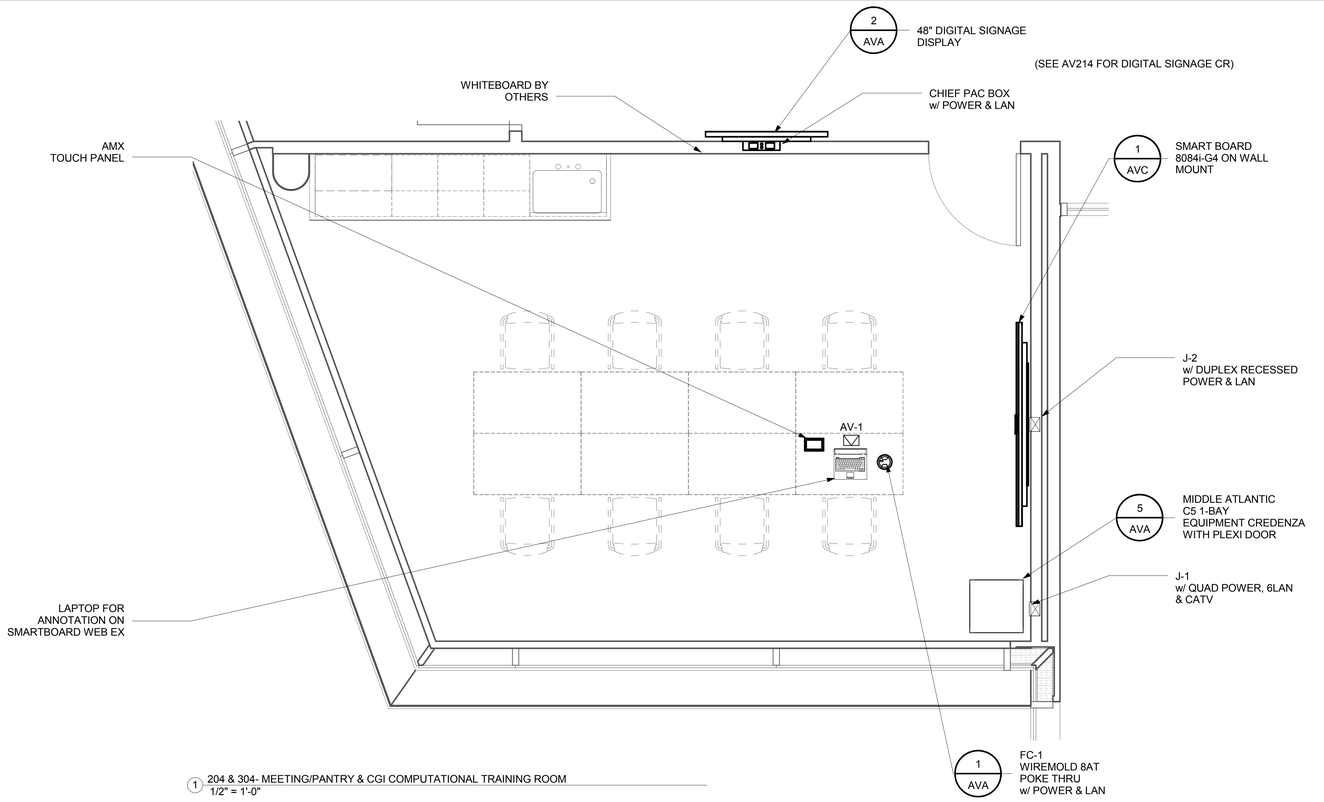
Drawing Title:

205– CONFERENCE ROOM

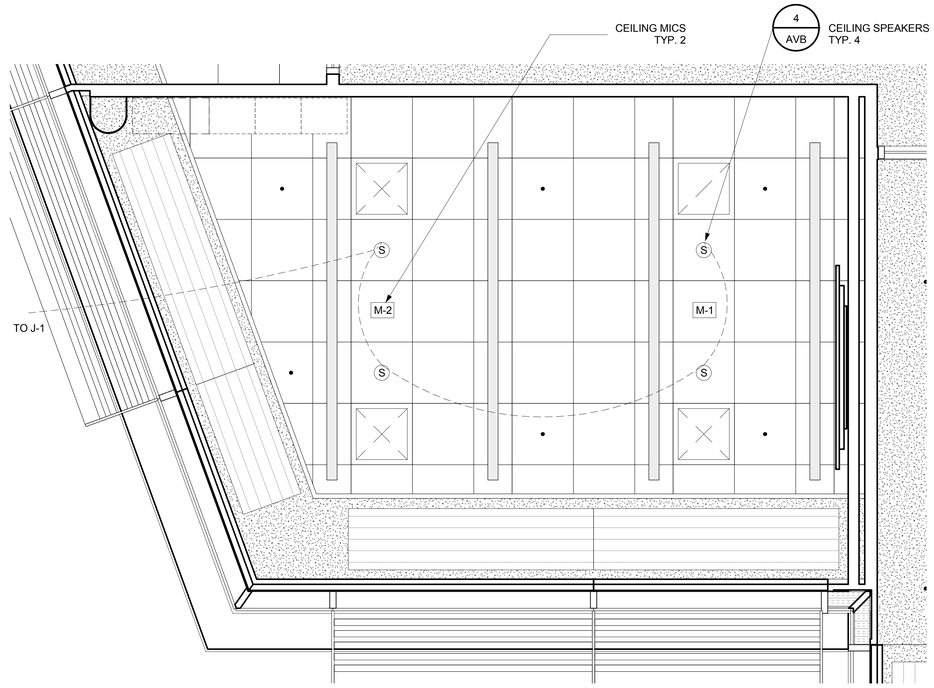
PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

CONFORMED SET: 05/29/2015

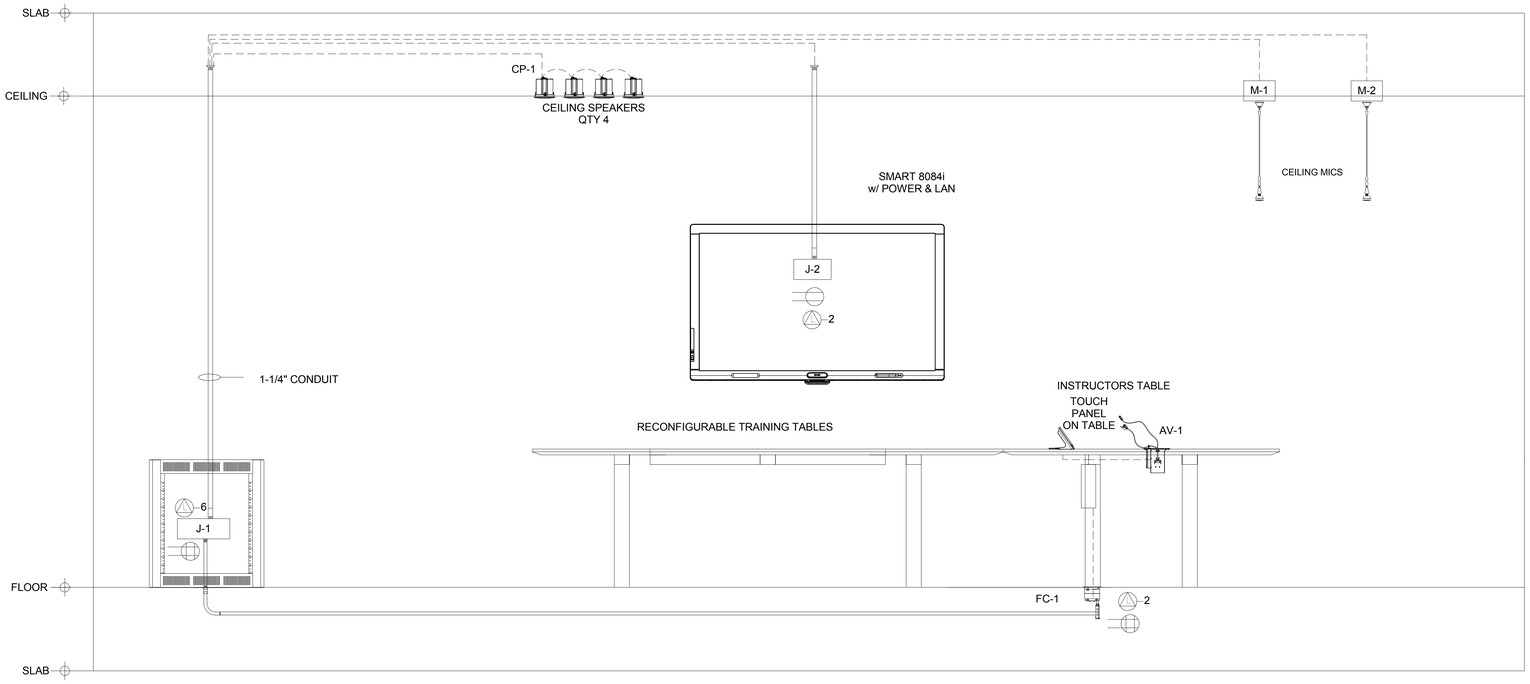
AV210



1 204 & 304- MEETING/PANTRY & CGI COMPUTATIONAL TRAINING ROOM
1/2" = 1'-0"



2 204 & 304- MEETING/PANTRY & CGI COMPUTATIONAL TRAINING ROOM RCP
1/2" = 1'-0"



ELECTRICAL SCHEDULE		
SYM.	DESCRIPTION	
	CEILING POWER OUTLET - 120V AC	STUBBED CONDUIT
C	AC CLOCK RECEPTACLE - 120V AC	
	AC DUPLEX OUTLET - 120V AC	
	AC QUAD OUTLET - 120V AC	
L-1	LAN WITH QUANTITY	RIGID CONDUIT
P-1	ANALOG LINE WITH QUANITY	
WP	WALL PHONE	
TV	CATV	
J-	J-BOX	PLENUM CABLE
CB-	CEILING PULL AREA	
SH LVC	SHADE LVC	
LT LVC	LIGHTING LVC	FC-1 FLOOR CORE
SCR LVC	SCREEN LVC	
LT SW	LIGHT SWITCH	POKE-THRU
SS SW	SCREEN SWITCH	

JUNCTION BOX SCHEDULE					
BOX #:	SIZE:	FUNCTION:	LOCATION:	ADD'L CABLE BEYOND BOX	AFF
204 & 304- MEETING/PANTRY & COMPUTATIONAL TRAINING ROOM					
J-1	4 GANG	EQUIPMENT RACK PULL AREA	SEE AV FLOOR PLAN	15'-0"	18"
J-2	2 GANG	MONITOR PULL AREA ON FRONT WALL	SEE AV FLOOR PLAN	5'-0"	65"
M-1	1 GANG	CEILING MIC	SEE AV FLOOR PLAN	15'-0"	AFC
M-2	1 GANG	CEILING MIC	SEE AV FLOOR PLAN	15'-0"	AFC
CP-1	1 GANG	SPEAKER PULL	SEE AV RCP	15'-0"	AFC
FC-1	8" POKE THRU	INSTRUCTORS DESK PULL	SEE AV FLOOR PLAN	15'-0"	N/A

NOTES:
1. ALL CONDUITS TO BE 1" DIAMETER UNLESS OTHERWISE SPECIFIED.
2. ELECTRICAL CONTRACTOR TO INSTALL PULL STRING IN ALL CONDUITS
3. THIS DRAWING INDICATES JUNCTION BOX NUMBERS, CABLE NUMBERS AND CONDUIT INTERCONNECT ONLY.
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8. SEE AV FLOOR PLAN FOR ALL AV RELATED POWER AND LAN CALL OUT LOCATIONS
9. CONFIRM FINAL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTS PRIOR TO INSTALLATION OF ALL DEVICES.

CONFORMED SET: 05/29/2015

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NO.	DATE	COMMENTS

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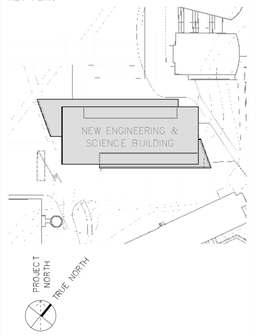
KEY PLAN

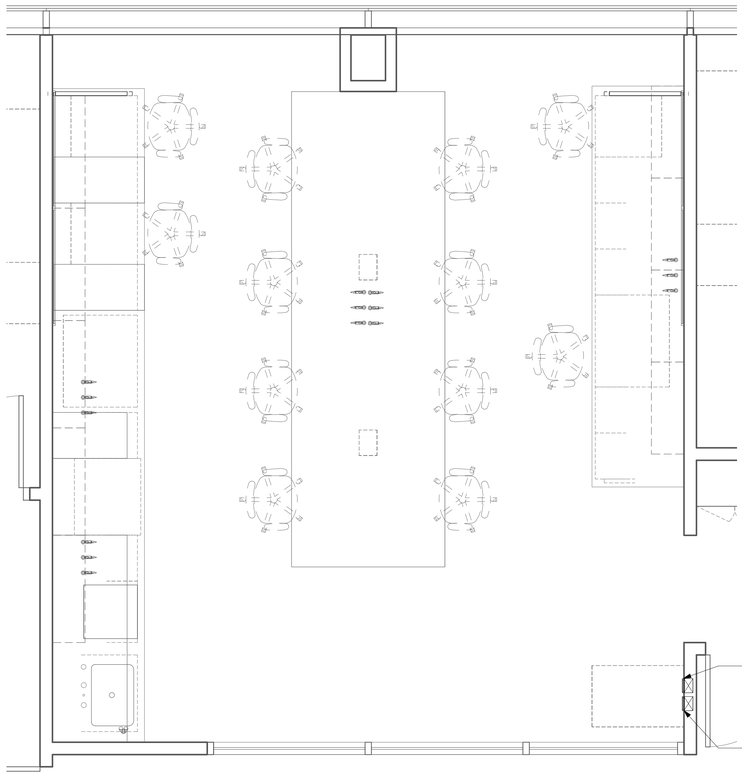


Project:
NEW ENGINEERING AND SCIENCE BUILDING

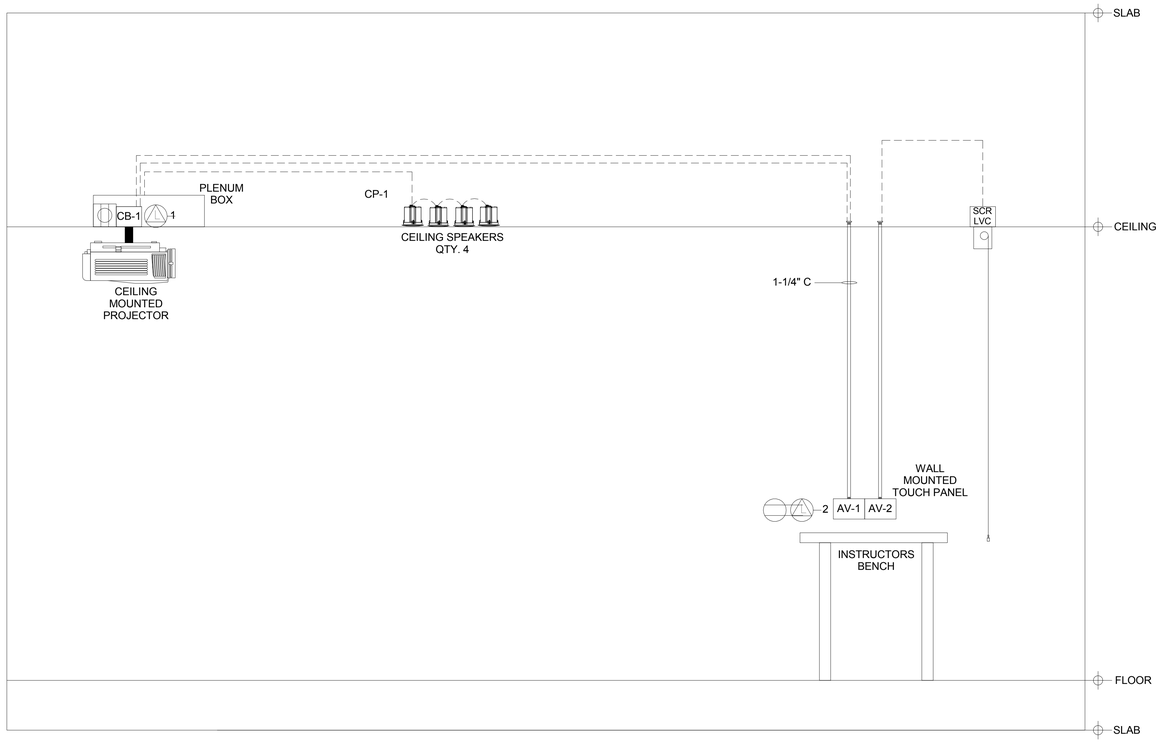
Drawing Title:
MEETING/PANTRY & CGI COMPUTATIONAL TRAINING ROOM

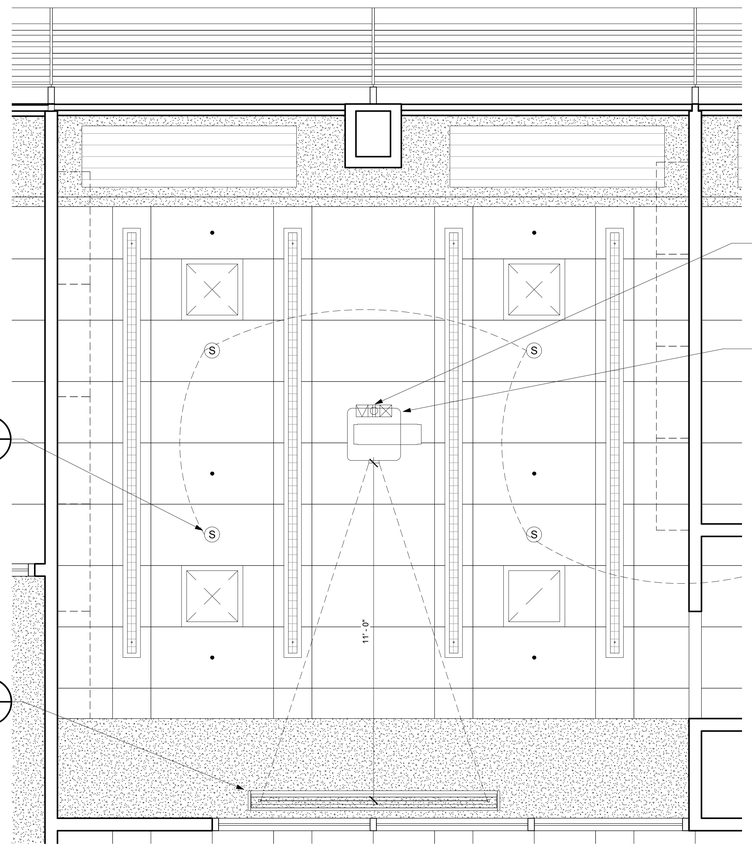
PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

AV211



1 CGI LAB TRAINING PLAN
1/2" = 1'-0"





2 CGI LAB TRAINING RCP
1/2" = 1'-0"

JUNCTION BOX SCHEDULE

BOX #:	SIZE:	FUNCTION:	LOCATION:	ADD'L CABLE BEYOND BOX	AFF
CGI LAB TRAINING ROOM 309BA					
AV-1	3 GANG	AV INPUT PLATE	SEE AV FLOOR PLAN	5'-0"	42"
AV-2	2 GANG	AV CONTROL PANEL	SEE AV FLOOR PLAN	5'-0"	42"
CB-1	MANUF	PLENUM BOX-PROJECTOR BOX	SEE AV RCP	10'-0"	AFC
CP-1	1 GANG	SPEAKER PULL	SEE AV RCP	15'-0"	AFC

ELECTRICAL SCHEDULE

SYM.	DESCRIPTION	
	CEILING POWER OUTLET - 120V AC	STUBBED CONDUIT
C	AC CLOCK RECEPTACLE - 120V AC	
	AC DUPLEX OUTLET - 120V AC	
	AC QUAD OUTLET - 120V AC	
1	LAN WITH QUANTITY	
1	ANALOG LINE WITH QUANITY	RIGID CONDUIT
WP	WALL PHONE	
TV	CATV	
J-	J-BOX	
CB-	CEILING PULL AREA	PLENUM CABLE
SH LVC	SHADE LVC	
LT LVC	LIGHTING LVC	
SCR LVC	SCREEN LVC	FC-1 FLOOR CORE
LT SW	LIGHT SWITCH	FLOORBOX
SS SW	SCREEN SWITCH	

NOTES:
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8. SEE AV FLOOR PLAN FOR ALL AV RELATED POWER AND LAN CALL OUT LOCATIONS.

9. CONFIRM FINAL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTS PRIOR TO INSTALLATION OF ALL DEVICES.

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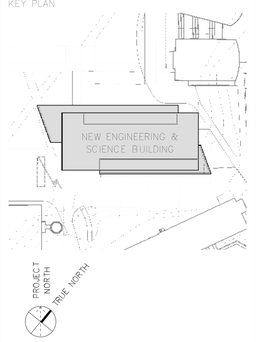
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

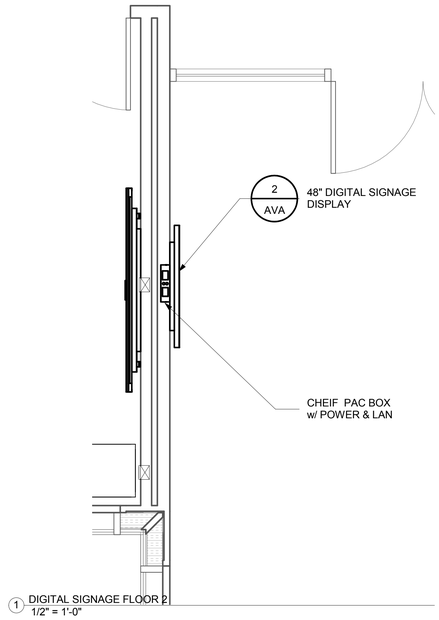
Drawing Title:

309BA– CGI LAB TRAINING ROOM

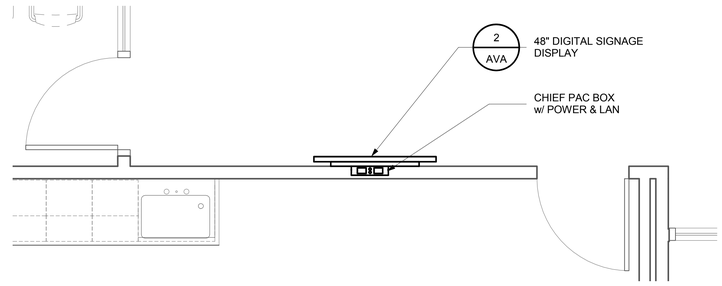
PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

CONFORMED SET: 05/29/2015

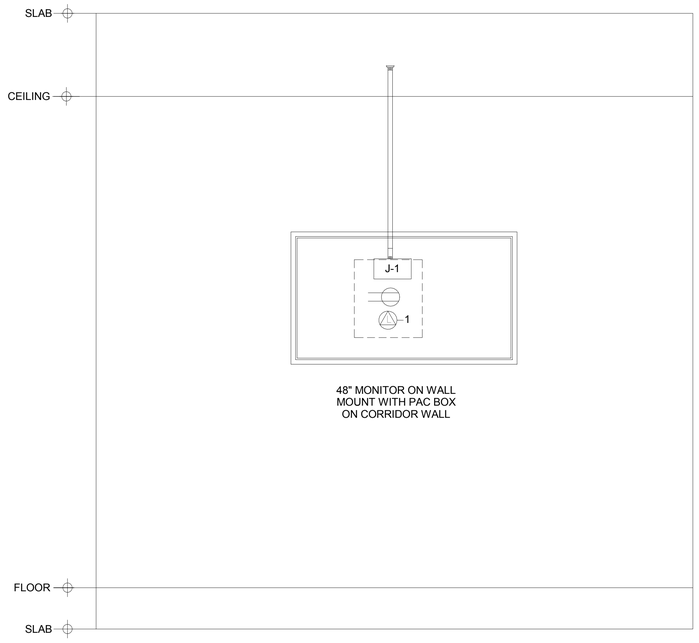
AV212



1 DIGITAL SIGNAGE FLOOR 2
1/2" = 1'-0"



2 DIGITAL SIGNAGE FLOOR 3
1/2" = 1'-0"



48" MONITOR ON WALL
MOUNT WITH PAC BOX
ON CORRIDOR WALL

JUNCTION BOX SCHEDULE					
BOX #:	SIZE:	FUNCTION:	LOCATION:	ADD'L CABLE BEYOND BOX	AFF
DIGITAL SIGNAGE					
J-1	MANUF	MONITOR PULL BOX - FUTURE APP	SEE AV FLOOR PLAN	15'-0"	65"

NOTES:
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C	RECESSED POWER - 120V AC	
	AC DUPLEX OUTLET - 120V AC	
	AC QUAD OUTLET - 120V AC	
1	LAN WITH QUANTITY	RIGID CONDUIT
1	ANALOG LINE WITH QUANTITY	
WP	WALL PHONE	
TV	CATV	
J-	J-BOX	PLENUM CABLE
CB-	CEILING PULL AREA	
SH LVC	SHADE LVC	
LT LVC	LIGHTING LVC	FC-1 FLOOR CORE
SCR LVC	SCREEN LVC	
LT SW	LIGHT SWITCH	POKE-THRU
SS SW	SCREEN SWITCH	

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860 429 5938

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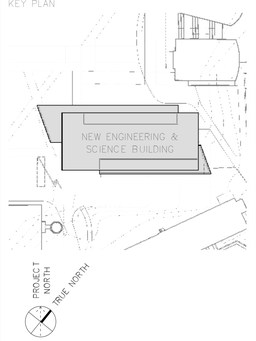
KEY PLAN



Project:
NEW ENGINEERING AND SCIENCE BUILDING

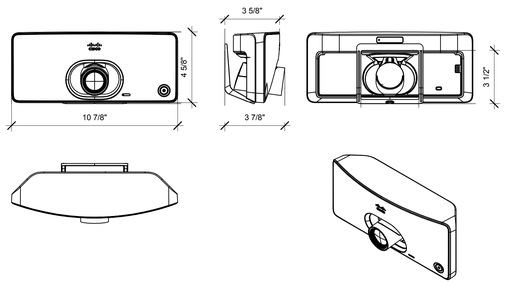
Drawing Title:
DIGITAL SIGNAGE PLANS & CONDUIT RISERS

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

AV213

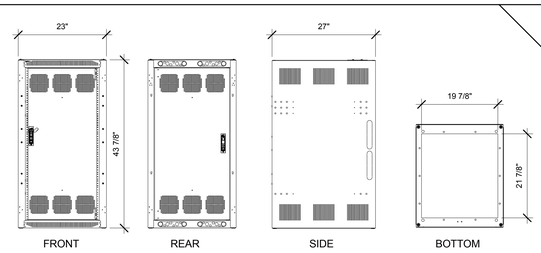
CONFORMED SET: 05/29/2015

6



TITLE:	CISCO SX10	QUANTITY:	5
SCALE:	3" = 1'-0"	SUPPLIED BY:	AVC
		INSTALLED BY:	AVC

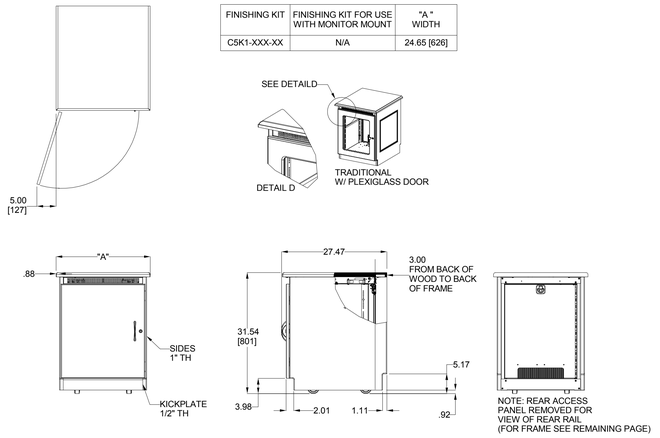
4



MIDDLE ATLANTIC

TITLE:	WRK-24SA-27LRD EQUIPMENT RACK	QUANTITY:	1
SCALE:	3/4" = 1'-0"	SUPPLIED BY:	AVC
		INSTALLED BY:	AVC

5

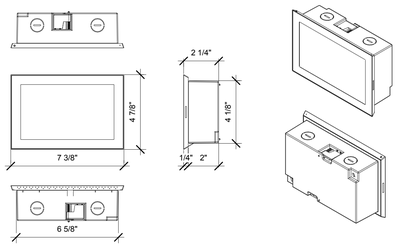


FINISHING KIT	FINISHING KIT FOR USE WITH MONITOR MOUNT	"A" WIDTH
C5K1-XXX-XX	N/A	24.65 [626]

MIDDLE ATLANTIC

TITLE:	C5 EQUIP. RACK 1 BAY w/PLEXI DOOR	QUANTITY:	9
SCALE:	3/4" = 1'-0"	SUPPLIED BY:	AVC
		INSTALLED BY:	AVC

7



TITLE:	AMX MSD-701 TOUCH PANEL	QUANTITY:	3
SCALE:	3" = 1'-0"	SUPPLIED BY:	AVC
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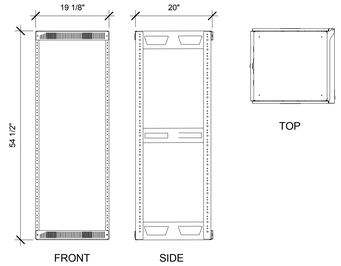
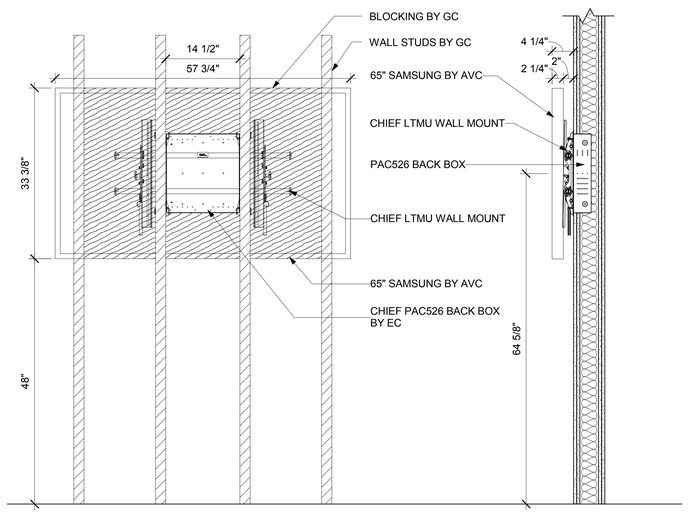
8



MIDDLE ATLANTIC

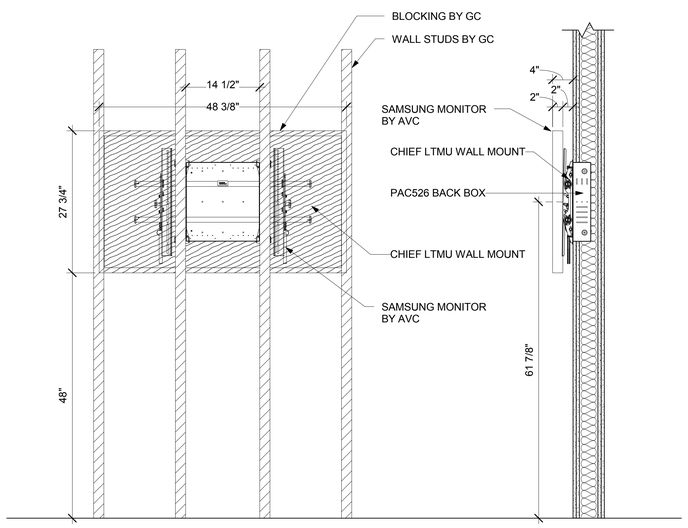
TITLE:	SLIM 5-29 EQUIPMENT RACK	QUANTITY:	1
SCALE:	3/4" = 1'-0"	SUPPLIED BY:	AVC
		INSTALLED BY:	AVC

3



TITLE:	65" SAMSUNG ON CHIEF WALL MOUNT	QUANTITY:	8
SCALE:	1" = 1'-0"	SUPPLIED BY:	AVC
		INSTALLED BY:	AVC

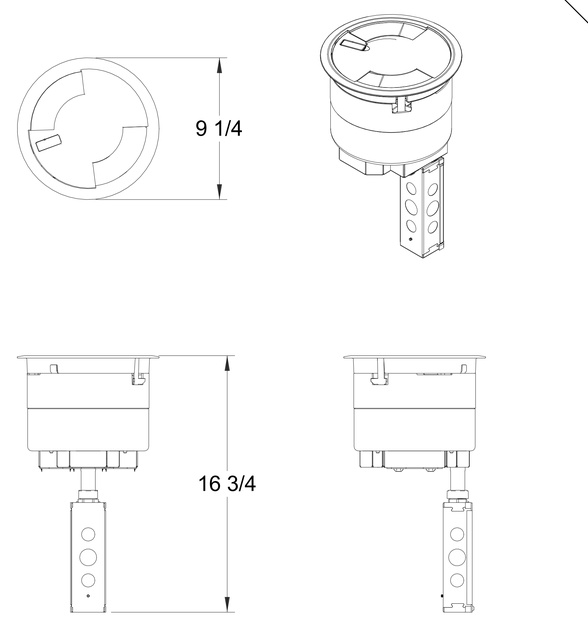
2



* REFER TO CONDUIT RISERS FOR MOUNTING HEIGHTS OF PAC BOXES

TITLE:	48"/ 55" SAMSUNG DM55D ON CHIEF MOUNT	QUANTITY:	12
SCALE:	1" = 1'-0"	SUPPLIED BY:	AVC
		INSTALLED BY:	AVC

1



TITLE:	WIREMOLD 8ATC POKETHRU	QUANTITY:	9
SCALE:	3" = 1'-0"	SUPPLIED BY:	EC
		INSTALLED BY:	EC

CONFORMED SET: 05/29/2015

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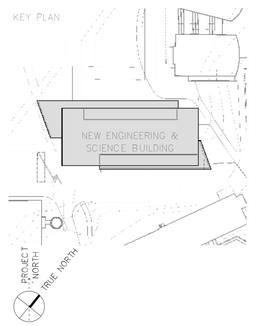
KEY PLAN



Project:

NEW ENGINEERING AND SCIENCE BUILDING

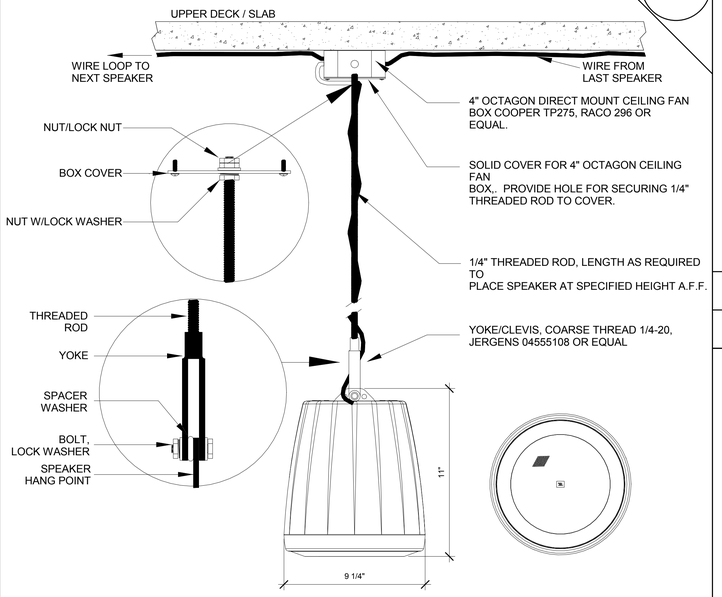
Drawing Title:

AV DETAILS

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
PHASE: BID DOCUMENTS	SCALE: As indicated

AVA

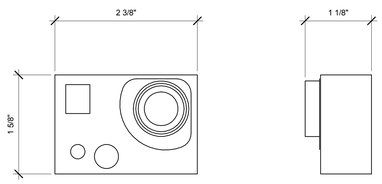
7



TITLE: JBL CONTROL 65PT PENDANT SPEAKERS | QUANTITY: 12

SCALE: 3" = 1'-0" | SUPPLIED BY: AVC | INSTALLED BY: AVC

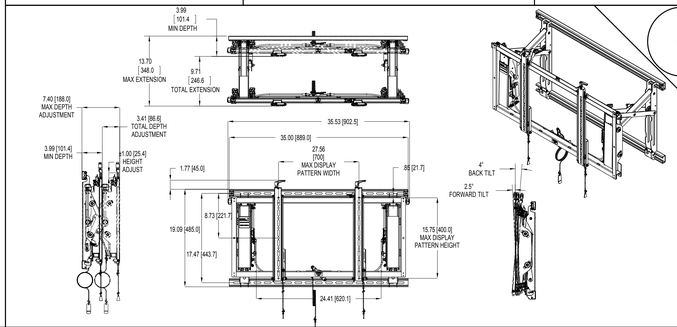
6



TITLE: WATERPROOF CAMERA | QUANTITY: 4

SCALE: 12" = 1'-0" | SUPPLIED BY: AVC | INSTALLED BY: AVC

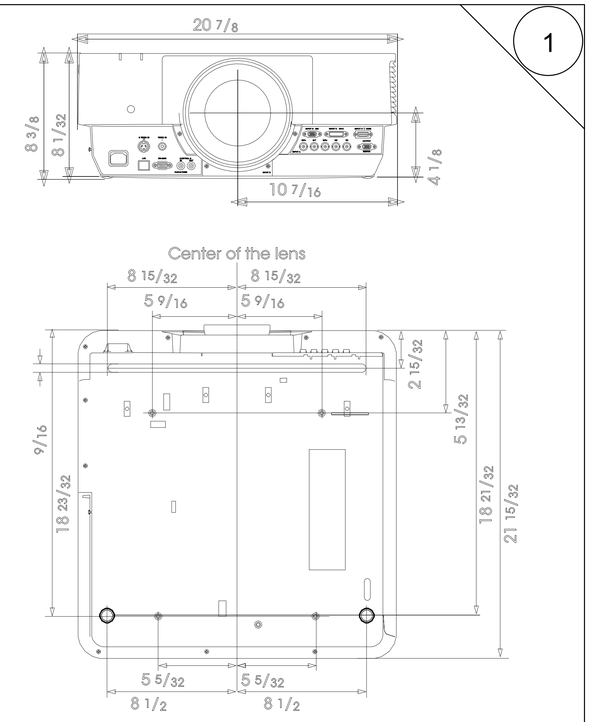
5



TITLE: CHIEF LVS1U VIDEO WALL MOUNT | QUANTITY: 6

SCALE: 1" = 1'-0" | SUPPLIED BY: AVC | INSTALLED BY: AVC

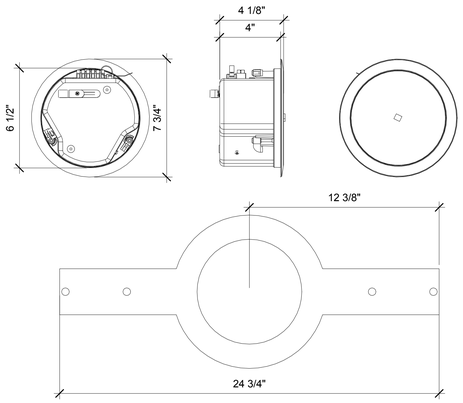
1



TITLE: SONY VPLFHZ700 L-W | QUANTITY: 1

SCALE: 3" = 1'-0" | SUPPLIED BY: AVC | INSTALLED BY: AVC

4

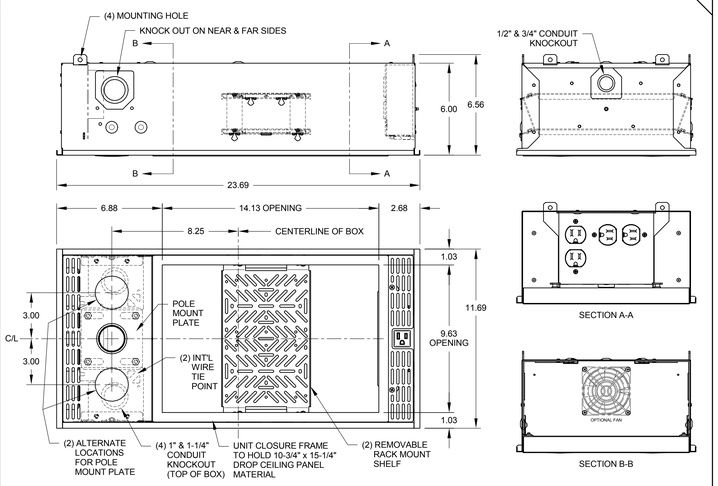


THE OPTIONAL NEW CONSTRUCTION BRACKET IS MADE OF FLAT SHEET METAL, WITH WINGS TO ATTACH TO THE BUILDING STRUCTURE. HOLES ARE DRILLED FOR NAILS OR SCREWS AT 16" (406mm) AND 24" (610mm) ON-CENTER. ADDITIONAL HOLES CAN BE DRILLED BY THE INSTALLER AT OTHER SPACINGS UP TO A MAXIMUM OF 24-3/4" (630mm) APART. SHEET ROCK INSTALLS OVER THE BRACKET, AND THE BRACKET PROVIDES A TEMPLATE FOR BLIND CUTOUT OF THE HOLE IN THE SHEETROCK. THE SHEETROCK CAN TYPICALLY BE CUT WITH A ROUTER-TYPE CUTTING TOOL, USING THE BRACKET RING AS A CUTOUT GUIDE.

TITLE: JBL CONTROL 24CT MOUNTING DETAIL | QUANTITY: 26

SCALE: 3" = 1'-0" | SUPPLIED BY: EC | INSTALLED BY: EC

3

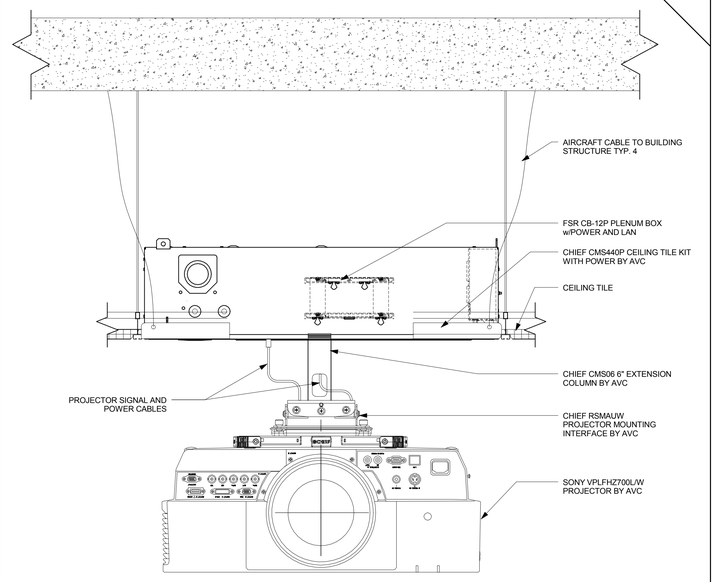


NOTE: OPTIONAL ACCESSORY FAN SHOWN INSTALLED.

TITLE: FSR CB-12P PLENUM BOX | QUANTITY: 1

SCALE: 3" = 1'-0" | SUPPLIED BY: EC | INSTALLED BY: EC

2



TITLE: SONY VPLFHZ700 L-W | QUANTITY: 2

SCALE: 3" = 1'-0" | SUPPLIED BY: AVC | INSTALLED BY: AVC

UNIVERSITY OF CONNECTICUT

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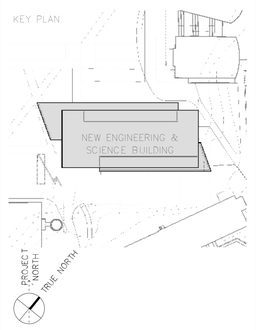

Project:

NEW ENGINEERING AND SCIENCE BUILDING

Drawing Title:

AV DETAILS

CONFORMED SET: 05/29/2015

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
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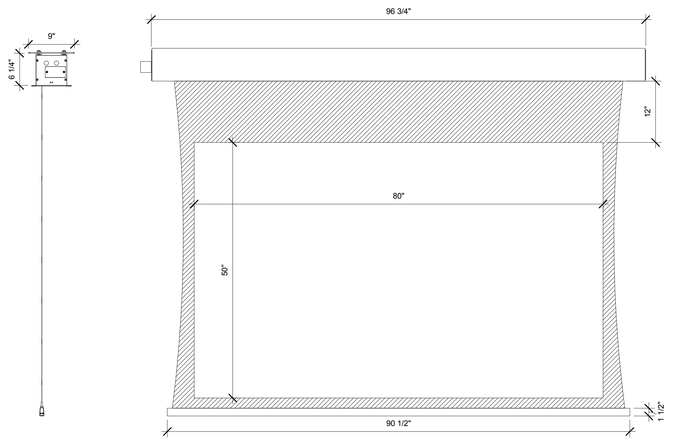
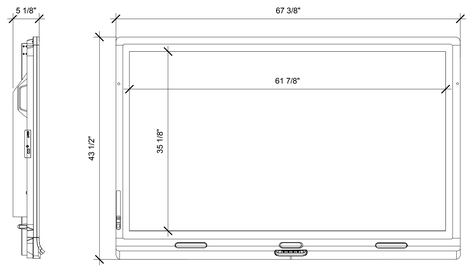
AVB

3



TITLE: DA-LITE 50"x 80" PROJECTION SCREEN		QUANTITY: 1	
SCALE: 1" = 1'-0"	SUPPLIED BY: EC	INSTALLED BY: EC	

2



TITLE: SMART 8070i-G4 w/ WEB CAM		QUANTITY: 1	
SCALE: 1" = 1'-0"	SUPPLIED BY: EC	INSTALLED BY: EC	

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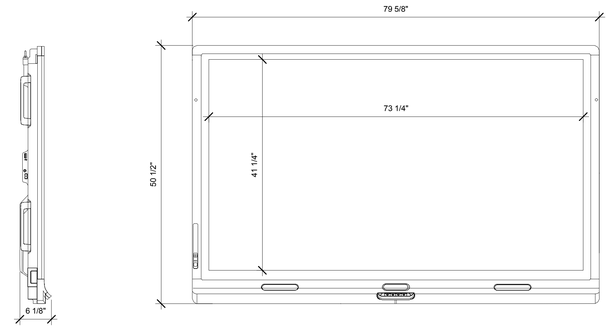

TITLE: SMART 8084i-G4 w/ WEB CAM		QUANTITY: 2	
SCALE: 1" = 1'-0"	SUPPLIED BY: EC	INSTALLED BY: EC	

CONFORMED SET: 05/29/2015

UNIVERSITY OF CONNECTICUT

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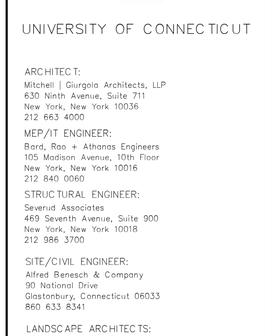

Project:

NEW ENGINEERING AND SCIENCE BUILDING

Drawing Title:

AV DETAILS

PROJECT NO: 092203	DATE: 20 FEBRUARY 2015
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AVC