

PROGRESS SET - NOT FOR CONSTRUCTION

CT INNOVATIONS – THE DISTRICT

AMENTA|EMMA ARCHITECTS

DD SET

470 James St, Unit 8, New Haven, CT 06513

08.29.2019

| SHEET NO. | DRAWING TITLE |
|-----------|---|
| G0.00 | COVER DRAWING INDEX, ALTERNATES, EGRESS PLAN, CODE INFORMATION, ABBREVIATIONS |
| G1.00 | GENERAL NOTES, SYMBOLS, GRAPHICS LEGEND |
| G1.01 | TYPICAL MOUNTING HEIGHTS AND CLEARANCES |
| D1.00 | DEMOLITION PLANS, DEMOLITION KEY NOTES |
| A1.00 | CONSTRUCTION AND DIMENSION PLANS |
| A2.00 | INTERIOR ELEVATIONS |
| A2.01 | INTERIOR ELEVATIONS |
| A3.00 | DOOR AND WINDOW SCHEDULES, DOOR DETAILS |
| A4.00 | REFLECTED CEILING PLAN |
| A5.00 | MILLWORK DETAILS |
| A6.00 | FINISH PLAN AND SCHEDULE, FLOORING DETAILS |
| A7.00 | FURNITURE AND FLOOR CORE PLANS |
| FP1.01 | FIRST FLOOR FIRE PROTECTION PLAN |
| FP2.01 | FIRE PROTECTION DETAILS AND SPECIFICATIONS |
| P0.01 | PLUMBING ABBREVIATIONS, GENERAL NOTES AND SYMBOL LIST |
| P0.02 | PLUMBING SPECIFICATION |
| P1.01 | FIRST FLOOR PLUMBING PLAN |
| M0.01 | MECHANICAL ABBREVIATIONS, GENERAL NOTES AND SYMBOL LIST |
| M0.02 | MECHANICAL SPECIFICATIONS |

| SHEET NO. | DRAWING TITLE |
|-----------------|---|
| M1.01 | FIRST FLOOR MECHANICAL DUCT PLAN |
| M2.01 | SCHEDULES AND DETAILS |
| E0.01 | ELECTRICAL ABBREVIATIONS, GENERAL NOTES AND SYMBOL LIST |
| E0.02 | ELECTRICAL SPECIFICATIONS |
| E1.01 | FIRST FLOOR LIGHTING PLAN |
| E2.01 | FIRST FLOOR POWER PLAN |
| Grand total: 25 | |

DRAWING INDEX

STATE BUILDING CODE (IBC International Building Code 2015, as supplemented in 2018)

- APPLICABLE CODES:
- 2015 INTERNATIONAL BUILDING CODE, 2018 CONNECTICUT SUPPLEMENT
 - 2015 INTERNATIONAL FIRE CODE, 2018 CONNECTICUT SUPPLEMENT
 - 2010 AMERICANS WITH DISABILITIES ACT AND ASSOCIATED GUIDELINES
 - 2009 ICC/ANSI A117.1 - ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, 2018 CONNECTICUT SUPPLEMENT
 - 2015 INTERNATIONAL PLUMBING CODE, 2018 CONNECTICUT SUPPLEMENT
 - 2015 INTERNATIONAL MECHANICAL CODE, 2018 CONNECTICUT SUPPLEMENT
 - 2015 INTERNATIONAL ENERGY CONSERVATION CODE, 2018 CONNECTICUT SUPPLEMENT
 - 2017 NATIONAL ELECTRICAL CODE NFPA 70, 2018 CONNECTICUT SUPPLEMENT
 - 2015 INTERNATIONAL EXISTING BUILDING CODE, 2018 CONNECTICUT SUPPLEMENT
- 2018 CONNECTICUT STATE FIRE SAFETY CODE
- Part I: ADMINISTRATIVE
 - Part II: GENERAL
 - Part III: NEW CONSTRUCTION, RENOVATION, OR CHANGE OF USE
 - 2015 INTERNATIONAL FIRE CODE
 - Part IV: EXISTING BUILDING / OCCUPANCIES

| | | |
|---|----------------|-------|
| 1. USE GROUP CLASSIFICATION (SECTION 304) | B (BUSINESS) | |
| 2. CONSTRUCTION TYPE (TABLE 503) | II B (ASSUMED) | |
| MINIMUM TYPE REQUIRED | II B | |
| ACTUAL TYPE PROVIDED | II B | |
| 3. FIRE RESISTANCE RATINGS (TABLE 601) | | |
| STRUCTURAL FRAME | 0 | HR(S) |
| BEARING WALLS (EXTERIOR) | 0 | HR(S) |
| BEARING WALLS (INTERIOR) | 0 | HR(S) |
| NON BEARING WALLS (EXTERIOR) | 0 | HR(S) |
| NON BEARING WALLS (INTERIOR) | 0 | HR(S) |
| FLOOR CONSTRUCTION | 0 | HR(S) |
| ROOF CONSTRUCTION | 0 | HR(S) |
| TENANT SEPERATIONS | 1 | HR(S) |
| EXIT ACCESS CORRIDORS | 0 | HR(S) |
| SHAFTS AND ELEVATOR HOISTWAYS | 1 | HR(S) |
| EXIT ENCLOSURES | 1 | HR(S) |

| | |
|---|--------------|
| 3. EXIT ACCESS TRAVEL DISTANCE (TABLE 1015.1) | |
| USE GROUP CLASSIFICATION | B (BUSINESS) |
| MAXIMUM ALLOWABLE | 300' |
| MAXIMUM PROVIDED | 185' - 11" |
| COMMON PATH OF TRAVEL (1013.3) | |
| MAXIMUM ALLOWABLE | 100' |
| MAXIMUM PROVIDED | 25'-0" |
| 4. OCCUPANCY LOAD (TABLE 1004.1.2) | |
| USE GROUP CLASSIFICATION | B (BUSINESS) |
| USABLE SQUARE FOOTAGE | 8,468 |
| TOTAL OCCUPANT LOAD | 143 |
| 5. FIRE PROTECTION SYSTEMS | |
| AUTOMATIC SPRINKLER SYSTEM PER 903.3.1.1 | THROUGHOUT |

- ALTERNATE 1** REMOVE PAINT FROM EXISTING BRICK WALL AND LEAVE NATURAL EXPOSED BRICK
- ALTERNATE 2** DEDUCT ALTERNATE: TO CHANGE ACT-2 & ACT-3 TO ARMSTRONG ULTIMA TEGULAR
- ALTERNATE 3** PROVIDE ELMES 656-01-0001 (5'-0") DOOR PULL WITH CLOSER IN LIEU OF DOOR LEVER FOR HARDWARE SET #2

NOTE:

SPECIAL INSPECTIONS ARE REQUIRED FOR BUILDING COMPONENTS WHEN THE DESIGN OF THESE COMPONENTS IS REQUIRED TO BE PERFORMED BY A PROFESSIONAL ENGINEER. GO TO REVIEW DRAWINGS FOR AREAS INDICATED WHERE STRUCTURAL STEEL FRAMING, WELDING, COLD FORMED STEEL FRAMING, ETC IS REQUIRED AND/OR INDICATED TO BE DESIGNED BY DELEGATED DESIGN. A STATEMENT OF SPECIAL INSPECTIONS WILL BE COMPLETED AND SUBMITTED TO THE BUILDING OFFICIAL FOR APPROVAL DURING PERMIT APPLICATION.

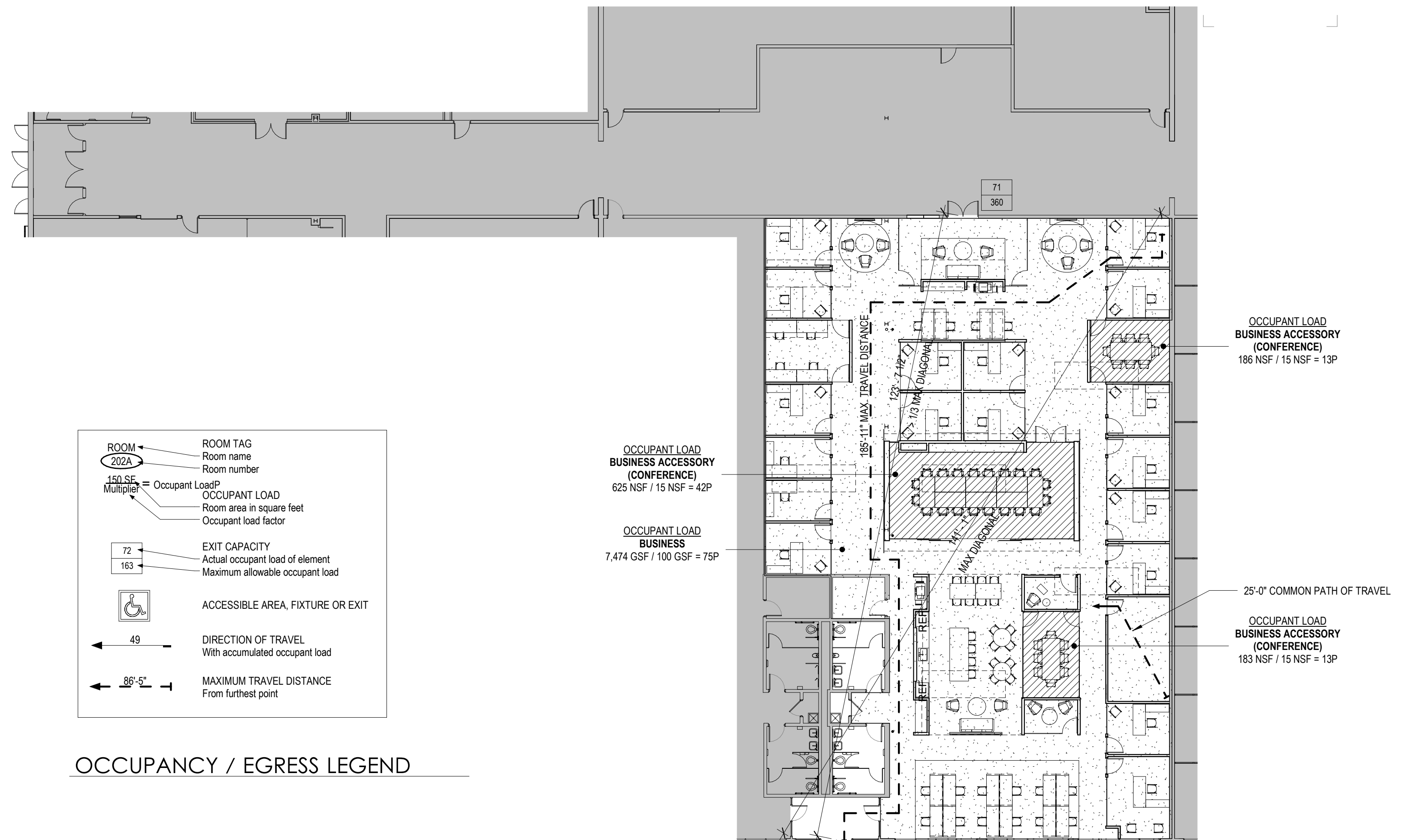
INSPECTIONS SHALL BE PAID FOR BY THE OWNER. THE OWNER OR THEIR AGENTS SHALL EMPLOY AN APPROVED AGENCY TO PERFORM SPECIAL INSPECTIONS. SPECIAL INSPECTIONS MAY ONLY BE PERFORMED BY QUALIFIED SPECIAL INSPECTORS APPROVED BY THE BUILDING OFFICIAL. SPECIAL INSPECTION CONTRACTS WITH THE OWNER WILL BE HOURLY WITH AN ESTIMATED BUDGET SINCE THE INSPECTOR HAS NO CONTROL OVER THE QUALITY OF THE WORK, OR THE MEANS AND METHODS USED BY THE GENERAL CONTRACTOR IN THE INSTALLATION OF THE WORK. SPECIAL INSPECTIONS ARE NOT A SUBSTITUTE FOR THE GENERAL CONTRACTOR'S QUALITY CONTROL (QC) PROGRAMS.

OWNER:
DISTRICT
470 JAMES ST
NEW HAVEN, CT 06413

TENANT:
CT INNOVATIONS
865 BROOK ST
ROCKY HILL, CT 06067

ARCHITECT:
AMENTA|EMMA ARCHITECTS, P.C.
242 TRUMBULL STREET
HARTFORD, CT 06103
860.549.4725

MEP ENGINEER:
RZ DESIGN ASSOCIATES
750 OLD MAIN ST
ROCKY HILL, CT 06067



1 1ST FLOOR PLAN – EGRESS PLAN
SCALE: 1/16" = 1'-0"

| | | | | | |
|--|-----------------|--|-----------------------|--|---------|
| | ACOUSTICAL TILE | | GLASS SECTION | | SAND |
| | ALUMINUM | | GRAVEL | | SHINGLE |
| | CARPET | | GYPSUM BOARD | | STEEL |
| | DISTURBED EARTH | | HOMASOTE | | STONE |
| | UNDIST. EARTH | | INSULATION - RIGID | | WOOD |
| | EIFS | | MASONRY - CONC. BLOCK | | |
| | GLASS ELEVATION | | PLYWOOD | | |

| GENERAL NOTES | |
|---------------|--|
| 1 | THE TERM CONTRACTOR IS USED IN THESE NOTES TO IDENTIFY THE PARTY WHO IS CONTRACTED TO THE OWNER AND WHO CAUSES THE WORK OF THE CONTRACT TO BE PERFORMED EITHER BY HIS OWN FORCES OR BY OTHER CONTRACTORS RETAINED BY HIM. |
| 2 | THE CONTRACTOR SHALL DO THIS WORK IN ACCORDANCE WITH LOCAL LAWS AND ORDINANCES HAVING JURISDICTION, IN ADDITION TO THE BUILDING PERMIT, THE CONTRACTOR SHALL OBTAIN ALL OTHER PERMITS AND APPROVALS AS REQUIRED BY LAW FOR THE COMPLETION OF THE WORK AND ISSUANCE OF A FULL CERTIFICATE OF OCCUPANCY. |
| 3 | THE SUBMISSION OF A PROPOSAL BY THE CONTRACTOR WILL BE CONSTRUED AS EVIDENCE THAT A CAREFUL AND THOROUGH EXAMINATION OF THE SITE HAS BEEN MADE AND LATER CLAIMS FOR LABOR, MATERIALS OR EQUIPMENT REQUIRED OR FOR DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED. IT SHALL ALSO CONSTITUTE A REPRESENTATION THAT THE CONTRACTOR HAS CHECKED AND VERIFIED ALL QUANTITIES, WORK AND MATERIALS INVOLVED AND THAT HE SHALL TAKE RESPONSIBILITY FOR ANY DEFICIENCIES THEREIN. |
| 4 | BEFORE ORDERING ANY MATERIAL OR DOING ANY WORK, EACH TRADE SHALL VERIFY ALL MEASUREMENTS IN THE FIELD AND SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF SAME. NO EXTRA CHARGE OR COMPENSATION WILL BE ALLOWED ON ACCOUNT OF DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND THE MEASUREMENTS INDICATED ON THE DRAWINGS; ANY DISCREPANCIES BETWEEN THE DRAWINGS AND FIELD CONDITIONS WHICH MAY BE FOUND SHALL BE SUBMITTED TO THE ARCHITECT FOR CONSIDERATION AND CLARIFICATION BEFORE PROCEEDING WITH THE WORK. |
| 5 | ALL OF THE ARCHITECT'S DRAWINGS AND CONSTRUCTION NOTES ARE COMPLIMENTARY AND WHAT IS CALLED FOR BY EITHER WILL BE BINDING AS IF CALLED FOR BY ALL. ANY WORK SHOWN OR REFERRED TO ON ANY ONE DRAWING SHALL BE PROVIDED AS THOUGH SHOWN ON ALL DRAWINGS. WHENEVER AN ITEM IS SPECIFIED AND/OR SHOWN ON THE DRAWINGS BY DETAIL OR REFERENCE IT SHALL BE CONSIDERED TYPICAL FOR OTHER ITEMS WHICH ARE OBVIOUSLY INTENDED TO BE THE SAME EVEN THOUGH NOT SO DESIGNATED OR SPECIFICALLY NAMED BUT DO SERVE THE SAME FUNCTION. |
| 6 | THE WORK TO BE PERFORMED CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, TOOLS, TRANSPORTATION, SUPPLIES, FEES, MATERIALS, AND SERVICES IN ACCORDANCE WITH THESE NOTES AND DRAWINGS AND PERFORMING ALL OPERATIONS NECESSARY TO CONSTRUCT AND INSTALL COMPLETE AND IN SATISFACTORY CONDITION THE VARIOUS MATERIALS AND EQUIPMENT AT THE LOCATIONS SHOWN. IT IS INTENDED THAT THE DRAWINGS INCLUDE EVERYTHING REQUISITE AND NECESSARY TO FINISH THE ENTIRE WORK PROPERLY, NOTWITHSTANDING THE FACT THAT EVERY ITEM NECESSARILY INVOLVED MAY NOT BE SPECIFICALLY MENTIONED OR SHOWN. ANY ITEM WHICH MAY BE REASONABLY CONSTRUED AS INCIDENTAL TO THE PROPER AND SATISFACTORY COMPLETION OF THE WORK IN ACCORDANCE WITH THE INTENT OF THESE NOTES AND DRAWINGS IS HEREBY INCLUDED. |
| 7 | THE CONTRACTOR SHALL ABIDE BY AND COMPLY WITH THE TRUE INTENT AND MEANINGS OF THE DRAWINGS AND NOTES TAKEN AS A WHOLE AND SHALL NOT AVOID HIMSELF OF ANY OBVIOUS ERRORS OR OMISSIONS, SHOULD ANY EXIST. SHOULD ANY ERROR OR DISCREPANCY APPEAR OR ANY DOUBT ARISE AS TO THE TRUE MEANING OF THE DRAWINGS OR NOTES, THE CONTRACTOR SHALL BRING SUCH ITEMS TO THE ATTENTION OF THE ARCHITECT BEFORE SUBMISSION OF PROPOSAL FOR EXPLANATION OR CORRECTION OF SAME. AFTER THE SUBMISSION OF PROPOSAL, THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL SUCH ITEMS. |
| 8 | THE CHARACTER AND SCOPE OF THE WORK ARE ILLUSTRATED BY THE DRAWINGS AND NOTES. TO INTERPRET AND EXPLAIN THE DRAWINGS OTHER INFORMATION DEEMED NECESSARY BY THE ARCHITECT WILL BE FURNISHED TO THE CONTRACTOR WHEN AND AS REQUIRED BY THE WORK, AND IT IS TO BE UNDERSTOOD THAT SAID ADDITIONAL INFORMATION OR DRAWINGS ARE TO BE OF EQUAL FORCE WITH THESE. |
| 9 | FULL SIZE OR LARGE SCALE DETAILS OR DRAWINGS SHALL GOVERN SMALL SCALE DRAWINGS WHICH THEY ARE INTENDED TO AMPLIFY. DETAILS OR CONDITIONS INDICATED FOR A PORTION OF THE WORK BUT NOT CARRIED OUT FULLY FOR OTHER PORTIONS SHALL APPLY THROUGHOUT TO ALL SIMILAR PORTIONS EXCEPT AS OTHERWISE SPECIFICALLY NOTED. IN EVERY CASE THE GREATER QUANTITY, OR A MORE EXPENSIVE ITEM OR METHOD SHALL BE ASSUMED OVER A LESSER QUANTITY OR A LESS EXPENSIVE ONE AND DIMENSIONS SHALL BE FIGURED RATHER THAN DETERMINED BY RULE OR SCALE. |
| 10 | ALL PARTITIONS ARE DIMENSIONED TO THE FINISHED FACES OF WALLS. ALL PARTITION THICKNESSES SHOWN ARE NOMINAL DIMENSIONS. |
| 11 | ALL MISCELLANEOUS WOOD BLOCKING, GROUNDS, FURRING AS REQUIRED, TO BE FIRE RETARDANT TREATED. |
| 12 | THE PROJECT HAS BEEN DESIGNED AND DETAILED FOR THE SPECIFIC MATERIALS AND EQUIPMENT SPECIFIED. NO SUBSTITUTIONS SHALL BE MADE WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ARCHITECT. IF THE SPECIFIED MATERIAL IS NOT AVAILABLE, THE CONTRACTOR SHALL PROPOSE AN ALTERNATE MATERIAL AND SHALL PROVIDE DRAWINGS, SAMPLES, SPECIFICATIONS, MANUFACTURER'S LITERATURE, PERFORMANCE DATA, ETC. IN ORDER THAT THE ARCHITECT CAN EVALUATE THE PROPOSED SUBSTITUTION. IF THE SUBSTITUTION AFFECTS A CORRELATED FUNCTION, ADJACENT CONSTRUCTION, OR THE WORK OF ANY OTHER CONTRACTOR OR TRADE, THE NECESSARY CHANGES AND MODIFICATIONS TO THE AFFECTED WORK SHALL BE SUBMITTED WITH THE SUBSTITUTION AND ACCOMPLISHED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. NO REQUESTS FOR SUBSTITUTES WILL BE ENTERAINED BY THE ARCHITECT DUE TO CONTRACTOR'S FAILURE TO ORDER MATERIALS IN A TIMELY MANNER. |
| 13 | THE STANDARD SPECIFICATIONS OF THE MANUFACTURERS APPROVED FOR USE IN THE PROJECT ARE HEREBY MADE A PART OF THESE NOTES WITH THE SAME FORCE AND EFFECT AS THOUGH HEREIN WRITTEN OUT IN FULL, EXCEPT THAT WHEREVER THE DRAWINGS REQUIRE HEAVIER MEMBERS, BETTER QUALITY MATERIALS OR ARE OTHERWISE MORE STRINGENT, THESE STRINGENT REQUIREMENTS SHALL GOVERN. |
| 14 | THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY IF HE CANNOT FOR ANY REASON COMPLY WITH ALL OF THESE NOTES AND DRAWINGS. |
| 15 | THE CONTRACTOR SHALL COORDINATE AND SUPERVISE THE WORK OF ALL SUB-CONTRACTORS. HE SHALL BE RESPONSIBLE FOR GIVING ALL TRADES SUCH INFORMATION, PLANS OR DETAILS AS MAY BE REQUIRED FOR THE PROPER INSTALLATION AND COMPLETION OF THEIR WORK. |
| 16 | THE CONTRACTOR SHALL SUBMIT ALL FABRICATION SHOP DRAWINGS, SAMPLES, AND FIXTURE CUTS FOR THE ARCHITECT'S REVIEW AS REQUIRED AND/OR INDICATED ON DRAWINGS. THE ARCHITECT'S REVIEW SHALL NOT BE CONSTRUED AS AN INDICATION THAT SUBMITTAL IS CORRECT OR SUITABLE NOR THAT WORK REPRESENTED BY SUBMITTAL COMPLIES WITH THE DRAWINGS, EXCEPT AS TO MATTERS OF FINISH COLOR, AND OTHER AESTHETIC MATTERS. ACTION NOTED ABOVE DOES NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY TO COORDINATE ALL TRADES AND TO CHECK QUANTITIES AND DIMENSIONS AGAINST CONDITIONS IN THE FIELD. CONTRACTORS AND ENGINEERS SHALL ASSUME RESPONSIBILITY FOR ALL ERRORS ON THEIR DRAWINGS. |
| 17 | ALL MATERIALS REQUIRED FOR THE PERFORMANCE OF THIS CONTRACT SHALL BE NEW AND OF THE BEST QUALITY OF KINDS SPECIFIED, ALL SUBJECT TO THE APPROVAL OF THE ARCHITECT. THE USE OF OLD OR SECOND-HAND MATERIALS IS STRICTLY FORBIDDEN. THE CONTRACTOR SHALL, IF REQUIRED, FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF MATERIALS AND WORKMANSHIP. MATERIALS SHALL BE USED IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS. UPON REQUEST, THE MANUFACTURER'S REPRESENTATIVE SHALL GO TO THE SITE AND INSTRUCT THE MECHANICS IN THE USE OF THE MATERIALS OR SHALL SUPERVISE THEIR USE. |
| 18 | THE CONTRACTOR SHALL PROVIDE BLOCKING AT ALL LOCATIONS FOR SCHEDULED WALL CABINETS AND/OR TV WALL MOUNTING BRACKETS, REFER TO DRAWINGS FOR LOCATION. |
| 19 | FOR THE EXECUTION OF THE WORK TO BE PERFORMED UNDER THIS CONTRACT AND FOR THE MANUFACTURE OR TRANSPORTATION OF ANY OF THE MATERIALS OR EQUIPMENT TO BE USED OR INSTALLED, THE CONTRACTOR SHALL EMPLOY ONLY SUCH LABOR THROUGHOUT AS WILL NOT INTERFERE WITH THE SPEEDY AND UNINTERRUPTED COMPLETION OF THE PROJECT. ALL WORK SHALL BE DONE BY MECHANICS SKILLED IN THEIR TRADE AND SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER IN ACCORDANCE WITH THE BEST TRADE PRACTICES. |
| 20 | ANY MATERIALS DELIVERED OR WORK PERFORMED, CONTRARY TO THE DRAWINGS AND SPECIFICATIONS AND APPROVED SHOP DRAWINGS, SHALL BE REMOVED BY THE CONTRACTOR AT HIS OWN EXPENSE, AND THE SAME SHALL BE REPLACED WITH OTHER MATERIALS OR WORK SATISFACTORY TO THE ARCHITECT. THE CONTRACTOR SHALL ALSO ASSUME THE COST OF REPLACING THE WORK WHICH MAY BE DISTURBED. |
| 21 | THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY AND ACCURATELY LAYING OUT THE WORK AND FOR THE LINES AND MEASUREMENTS HEREIN. HE SHALL ESTABLISH NECESSARY REFERENCE LINES AND PERMANENT BENCH MARKS FROM WHICH BUILDING LINES AND ELEVATIONS SHALL BE TAKEN. ELEVATION HEIGHTS OF ALL WORK INCLUDING BUT NOT LIMITED TO SOFFITS, CEILINGS, DOORS, HOLLOW METAL SHALL BE TRUE AND LEVEL WITHIN A MAXIMUM TOLERANCE OF 1/8" OVERALL THE ENTIRE PROJECT. |

| GENERAL NOTES | |
|---------------|---|
| 22 | FOR ALL PARTITIONS REFER TO PARTITION SYMBOLS ON DRAWINGS AND THE PARTITION TYPE DETAILS WHICH SHOWS PARTITION CORES AND FINISHES. REFER TO LIFE SAFETY DRAWINGS FOR LOCATION OF RATED PARTITIONS, IF APPLICABLE. |
| 23 | A. THE PREMISES AND THE JOB SITE SHALL BE MAINTAINED IN A REASONABLY NEAT AND ORDERLY CONDITION AND KEPT FREE FROM ACCUMULATIONS OF WASTE MATERIALS AND RUBBISH DURING THE ENTIRE CONSTRUCTION PERIOD. REMOVE CRATES, CARTONS AND OTHER FLAMMABLE WASTE MATERIALS OR TRASH FROM THE WORK AREAS AT THE END OF EACH WORKING DAY. B. ELECTRICAL CLOSETS, PIPE AND DUCT SHAFTS, CHASES, FURRED SPACES AND SIMILAR SPACES WHICH ARE GENERALLY UNFINISHED SHALL BE CLEANED AND LEFT FREE FROM RUBBISH, LOOSE PLASTER, MORTAR DRIPPINGS, EXTRANEOUS CONSTRUCTION MATERIALS, DIRT AND DUST. C. CARE SHALL BE TAKEN BY WORKMEN NOT TO MARK, SOIL, OR OTHERWISE DEFACE FINISHED SURFACES. IN THE EVENT THAT FINISHED SURFACES BECOME DEFAECED, THE CONTRACTOR IS RESPONSIBLE FOR CLEANING AND RESTORING SUCH SURFACES TO THEIR ORIGINAL CONDITION. IF THIS IS NOT POSSIBLE, DAMAGED SURFACES SHALL BE REPLACED. D. CLEAN UP IMMEDIATELY UPON COMPLETION OF EACH TRADE'S WORK. E. CLEAN AREAS OF THE BUILDING IN WHICH PAINTING AND FINISHING WORK IS TO BE PERFORMED JUST PRIOR TO THE START OF THIS WORK, AND MAINTAIN THESE AREAS IN SATISFACTORY CONDITION FOR PAINTING AND FINISHING. F. THIS CLEANING INCLUDES THE REMOVAL OF TRASH AND RUBBISH FROM THESE AREAS, BROOM CLEANING OF FLOORS, THE REMOVAL OF ANY PLASTER, MORTAR, DUST AND OTHER EXTRANEOUS MATERIALS FROM FINISH SURFACES, INCLUDING BUT NOT LIMITED TO, MISCELLANEOUS METAL, WOODWORK, PLASTER, GYPSUM DRYWALL, MASONRY, CONCRETE, MECHANICAL AND ELECTRICAL EQUIPMENT, PIPING, WOODWORK, CONDUIT, AND SURFACES VISIBLE AROUND GRILLES, REGISTERS AND OTHER SUCH FIXTURES OR DEVICES ARE IN PLACE. G. IN ADDITION TO THE CLEANING SPECIFIED ABOVE AND THE MORE SPECIFIC CLEANING WHICH MAY BE REQUIRED IN VARIOUS SECTIONS OF THE SPECIFICATIONS, THE PREMISES SHALL BE PREPARED FOR OCCUPANCY BY: (i) A THOROUGH CLEANING THROUGHOUT INCLUDING WASHING OR CLEANING BY OTHER APPROVED METHODS OF ALL FLOORS AND SURFACES ON WHICH DIRT OR DUST HAS COLLECTED AND BY WASHING GLASS, REMOVING ALL PAINT, PUTTY AND STAINS THEREFROM. (ii) PROVIDING AND MAINTAINING PROTECTION OF EXISTING AND INSTALLED PORTIONS OF THE WORK. (iii) LEAVING ALL FIXTURES AND EQUIPMENT IN AN UNDATED, BRIGHT, CLEAN, POLISHED CONDITION. (iv) CLEAN AND POLISH ALL HARDWARE, AND OTHER METAL WORK. (v) FOR FINAL CLEANING, CONTRACTOR SHALL ENGAGE THE SERVICES OF A PROFESSIONAL CLEANING COMPANY TO ACCOMPLISH THE FOLLOWING: REMOVAL OF PUTTY STAINS AND PAINT SPOTS; WASHING AND POLISHING OF GLASS; CLEANING AND POLISHING OF ALL EXPOSED FINISH HARDWARE, AND A THOROUGH CLEANING OF ALL SURFACES, RESILIENT TILE / SHEET VINYL FLOORING POLISHED & BUFFT. |
| 24 | THE CONTRACTOR SHALL KEEP THE ARCHITECT INFORMED OF THE PROGRESS OF HIS WORK. NO WORK SHALL BE CLOSED OR COVERED UNTIL IT HAS BEEN DULY INSPECTED AND APPROVED. SHOULD UNINSPECTED WORK BE COVERED, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, UNCOVER ALL SUCH WORK SO THAT IT CAN BE PROPERLY INSPECTED AND AFTER SUCH INSPECTION, HE SHALL PROPERLY REPAIR AND REPLACE ALL WORK INTERFERED WITH. |
| 25 | THE WORK IS SUBJECT TO INSPECTION BY THE ARCHITECT AND ACCEPTANCE BY THE OWNER. |
| 26 | PROTECT OWNER'S PROPERTY, EQUIPMENT AND EMPLOYEES FROM INJURY AND DAMAGE. |
| 27 | ALL HVAC, PLUMBING, SPRINKLER AND ELECTRICAL LINES ARE TO BE COORDINATED SO THAT NO CONFLICTS OCCUR. ANY CONFLICTS WHICH RESULT IN A RELOCATION OF A FINISHED SURFACE MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO INSTALLATION. |
| 28 | CONTRACTOR SHALL CONSULT WITH ELECTRICAL AND PLUMBING SUB-CONTRACTORS FOR LOCATIONS OF CONDUIT AND PIPES IN FOUNDATION, SLABS ON GRADE, AND EXTERIOR WALLS AND SHALL INSTALL WATER TIGHT PIPE SLEEVES AT THEIR RESPECTIVE LOCATIONS. |
| 29 | A SET OF THE INSTRUCTION MANUALS AND INSTALLATION INSTRUCTIONS OF ALL EQUIPMENT AND ACCESSORIES INSTALLED IN THIS JOB SHALL BE KEPT BY THE CONTRACTOR AND TURNED OVER TO THE OWNER AT THE COMPLETION OF THE JOB. IN ADDITION, AS-BUILT DRAWINGS OF THE COMPLETED WORK ARE TO BE COMPLETED, SIGNED AND SEALED, AND DELIVERED TO THE ARCHITECT AND OWNER AT THE COMPLETION OF THE JOB. |
| 30 | PROVIDE ADEQUATE BACKUP AND BLOCKING FOR ALL WALL OR CEILING MOUNTED EQUIPMENT, ARCHITECTURAL WOODWORK, HANDRAILS, LIGHTING OR OTHER MISCELLANEOUS ITEMS AS SHOWN ON DRAWINGS TO ASSURE A SECURE INSTALLATION. |
| 31 | SUBMITTALS THAT REQUIRE THE REVIEW OF THE ARCHITECT/ENGINEERING TEAM SHALL BE DELIVERED IN DIGITAL FORMAT, AND IF REQUIRED BY THE ARCHITECT/ENGINEERING TEAM, BE SUBMITTED AS HARDCOPY AS WELL. A SEVEN (7) BUSINESS DAY PERIOD OF TIME WILL BE ALLOTTED FOR ARCHITECT/ENGINEERS REVIEW OF THE CONSTRUCTION SUBMITTAL, AND IT CANNOT BE GUARANTEED THAT AN EXPEDITED SCHEDULE CAN BE ACCOMMODATED. |
| 32 | THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING OR OBTAINING SHOP DRAWINGS FROM THE SUBCONTRACTORS AND MANUFACTURERS. THE APPROVAL AND SUBMITTAL OR SHOP DRAWINGS TO THE ARCHITECT REPRESENTS THAT THE CONTRACTOR HAS REVIEWED AND VERIFIED THE USE OF APPROPRIATE MATERIALS, PROPER FIELD MEASUREMENTS, FIELD CONSTRUCTION REQUIREMENTS, AND HAVE COORDINATED THE INFORMATION CONTAINED IN THE SUBMITTAL. DEVIATIONS FROM THE CONTRACT DOCUMENTS MUST BE CALLED TO THE ATTENTION OF THE ARCHITECT IN WRITING AND REQUIRES SPECIFIC APPROVAL OF THE ARCHITECT. ARCHITECTURAL APPROVAL OF THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF ERRORS OR OMISSIONS, PER AIA DOCUMENT A201-2007 STANDARDS. |
| 33 | ALL QUESTIONS TO THE ARCHITECT/ENGINEERING TEAM SHALL BE SUBMITTED AS REQUESTS FOR INFORMATION (RFIs), WITH THE CONSTRUCTION MANAGER'S LETTERHEAD. THE CONSTRUCTION MANAGER WILL PROVIDE A NUMBER TO THE RFi. A ONE (1) WEEK PERIOD OF TIME WILL BE ALLOTTED FOR ARCHITECTURAL/ENGINEERING REVIEW OF THE RFi. ALL CORRESPONDENCE REGARDING RFIS WILL BE FROM THE CONSTRUCTION MANAGER TO THE ARCHITECT. THE ARCHITECT WILL DISSEMINATE THE INFORMATION TO THE APPROPRIATE ENGINEERS IF REQUIRED. NO SUB-CONTRACTOR IS TO CONTACT THE ARCHITECT OR ENGINEER WITH A QUESTION DIRECTLY; ALL QUESTIONS TO THE ARCHITECT/ENGINEERING TEAM SHALL BE SENT THROUGH THE CONSTRUCTION MANAGER. |
| 34 | THIS SET OF DRAWINGS IS FOR ARCHITECTURAL WORK. MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DEVICES ARE SHOWN FOR COORDINATION PURPOSES ONLY. GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL ENGINEERING AND FOR PROVIDING FINISHED MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION WORK IN ACCORDANCE WITH ALL APPLICABLE CODES. |
| 35 | CONTRACTOR TO INCLUDE IN HIS PRICING ALL ENGINEERING FOR MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION WORK TO COORDINATE WITH ARCHITECT'S DESIGN AND PROVIDE COMPLETE SYSTEMS. |

| | | | |
|--------|--|--------|----------------------------------|
| (E) | EXISTING | J | JANITOR |
| (N) | NEW | JC | JANITOR'S CLOSET |
| (R) | RELOCATED | L | LABORATORY |
| A | AIR CONDITIONING | LAM | LAMINATE |
| AC | ACCESSIBLE | LAV | LAVATORY |
| ACC | ACOUSTICAL CEILING TILE | LB | LOAD |
| ACT | ADDITIONAL | LF | LINEAR FOOT |
| ADD | ADJUSTABLE | LLH | LONG LEG HORIZONTAL |
| ADJ | ADJUSTABLE | LLV | LONG LEG VERTICAL |
| AFF | ABOVE FINISH FLOOR | M | MACHINE |
| ALT | ALTERNATE | MACH | MACHINE |
| ALUM | ALUMINUM | MAINT | MAINTENANCE |
| APPROX | APPROXIMATE | MATL | MATERIAL |
| ARCH | ARCHITECTURAL | MAX | MAXIMUM |
| AV | AUDIO VISUAL | MBL | MARBLE |
| B | BOARD | MDF | MEDIUM DENSITY FIBERBOARD |
| BDG | BUILDING | MDO | MEDIUM DENSITY OVERLAY PLYWOOD |
| BO | BOTTOM OF | MECH | MECHANICAL |
| BUR | BUILT-UP ROOFING | MEP | MECHANICAL, ELECTRICAL, PLUMBING |
| C | CATCH BASIN | MEZZ | MEZZANINE |
| CB | CORNER GUARD | MFR | MANUFACTURER |
| CG | CAST-IN-PLACE | MH | MANHOLE |
| CIP | CONTROL / CONSTRUCTION JOINT | MIN | MINIMUM |
| CJ | CENTER LINE | MISC | MISCELLANEOUS |
| CL | CEILING | MM | MILLIMETER |
| CLG | CLEAR | MO | MASONRY OPENING |
| CLR | CEILING | MTD | MOUNTED |
| CMU | CONCRETE MASONRY UNIT | MTG | MOUNTING |
| CO | CLEANOUT | N | NORTH |
| COL | COLUMN | NA | NOT APPLICABLE |
| CONC | CONCRETE | NC | NOISE CRITERIA |
| CONT | CONTINUOUS | NC | NOT IN CONTACT |
| COORD | COORDINATE | NOM | NOMINAL |
| CORR | CORRIDOR | NTS | NOT TO SCALE |
| CORR | CORRIDOR | O | ON CENTER |
| CT | CERAMIC TILE | OC | OUTSIDE DIAMETER/DIMENSION |
| CW | COLD WATER | OD | OWNER FURNISHED, CONTR INSTALLED |
| DEMO | DEMOLITION | OFOI | OWNER FURNISHED, OWNER INSTALLED |
| DEPT | DEPARTMENT | OPP | OPPOSITE |
| DF | DRINKING FOUNTAIN | ORD | OVERFLOW ROOF DRAIN |
| DIA | DIAMETER | OVHD | OVERHEAD |
| DIM | DIMENSION | P | PARTICLEBOARD |
| DISP | DISPENSER | PB | PRECAST CONCRETE |
| DN | DOWN | PC | PERFORATED |
| DO | DOOR OPENING | PERF | PERIMETER |
| DP | DIAMENSION POINT | PERP | PERPENDICULAR |
| DR | DOOR | PL | PLATE |
| DS | DOWNSPOUT | PLAM | PLASTIC LAMINATE |
| DW | DISHWASHER | PLF | POUNDS PER LINEAR FOOT |
| DWG | DRAWING | PR | PAIR |
| E | EACH | PRFAB | PREFABRICATED |
| EA | EACH | PROJ | PROJECT |
| EFS | EXTERIOR INSULATION & FINISH SYSTEM | PSF | POUNDS PER SQUARE FOOT |
| EIFS | EXTERIOR FINISH SYSTEM | PT | POINT |
| EJ | EXPANSION JOINT | PTD | PAINTED |
| EL | ELEVATION | Q | QUARRY TILE |
| ELECT | ELECTRICAL | QT | QUANTITY |
| ELEV | ELEVATOR | R | RADIUS OR RISER |
| EMERG | EMERGENCY | R | RADIUS OR RISER |
| EQ | EQUAL | RB | REFLECTED CEILING PLAN |
| EQUIP | EQUIPMENT | RC | ROOF DRAIN |
| EW | ELECTRICAL WATER COOLER | REF | REFERENCE |
| EXH | EXHAUST | REINF | REINFORCED / REINFORCING |
| EXIST | EXISTING | REQD | REQUIRED |
| EXT | EXTERIOR | REV | REVISION/REVISED |
| F | FLOOR DRAIN | RM | ROOM |
| FD | FLOOR DRAIN | RO | ROUGH OPENING |
| FE | FIRE EXTINGUISHER | RWL | RAIN WATER LEADER |
| FEC | FIRE EXTINGUISHER CABINET | S | SOLID CORE |
| F&E | FURNITURE, FINISHES, & EQUIPMENT | SCHED | SCHEDULE |
| FFEL | FINISH FLOOR ELEVATION | SF | SQUARE FEET/FOOT |
| FHC | FIRE HOSE CABINET | SIM | SIMILAR |
| FL | FLOOR | SP | STANDPIPE |
| FND | FOUNDATION | SPEC | SPECIFICATION |
| FO | FACE OF | SQ | SQUARE |
| FP | FIRE PROTECTION | SS | STAINLESS STEEL |
| FPG | FIREPROOFING | STD | STANDARD |
| FRTW | FIRE RETARDANT TREATED WOOD | STL | STEEL |
| FT | FEET | STOR | STORAGE |
| FURN | FURNITURE | STRUCT | STRUCTURAL |
| FW | FABRIC WALLCOVERING | T | TONGUE AND GROOVE |
| FWP | FABRIC WRAPPED PANEL | T&G | TONGUE AND GROOVE |
| G | GROUND | T | TREAT |
| G | GROUND | TC | TOP OF CURB |
| GA | GAUGE / GAGE | TEL | TELEPHONE OR TELECOM |
| GALV | GALVANIZED | TO | TOP OF (SEE OTHER WORD) |
| GC | GENERAL CONTRACTOR | TV | TELEVISION |
| GFR | GLASS FIBER REINFORCED CONCRETE | TW | TOP OF WALL |
| GFRG | GLASS FIBER REINFORCED GYPSUM | TYP | TYPICAL |
| GL | GLASS | U | UNLESS OTHERWISE NOTED |
| GYPBD | GYPSUM WALLBOARD | U.O.N | UNLESS OTHERWISE NOTED |
| H | HOSE BIB | V | VINYL COMPOSITION TILE |
| HB | HOLLOW CORE | VCT | VERTICAL |
| HC | HOLLOW CORE | VERT | VERTICAL |
| HCP | HANDICAPPED | VEST | VESTIBULE |
| HDWD | HARDWOOD | VIF | VERIFY IN FIELD |
| HDWR | HARDWARE | VT | VINYL TILE |
| HM | HOLLOW METAL (STEEL FRAME) | W | VINYL WALL COVERING |
| HORIZ | HORIZONTAL | W | WITHOUT |
| HR | HOUR | WC | WATER CLOSET |
| HVAC | HEATING, VENTILATION, AIR CONDITIONING | WD | WOOD |
| HW | HOT WATER | WP | WORK POINT |
| I | INSIDE DIAMETER | WR | WATER RESISTANT/REPELANT |
| ID | INSIDE DIAMETER | | |
| IN | INCH | | |
| INCL | INCLUDED / INCLUDING | | |
| INSUL | INSULATION | | |
| INT | INTERIOR | | |
| INV | INVERT | | |

A 1.01 SHEET NUMBER
Sheet Number
Sequence
Sheet Type
Discipline

ENLARGED PLAN / DETAIL IDENTIFICATION
Detail Number
Sheet Number

SECTION IDENTIFICATION
Detail Number
Sheet Number

EXTERIOR ELEVATION IDENTIFICATION
Elevation Number
Sheet Number

INTERIOR ELEVATION IDENTIFICATION
Elevation Number
Sheet Number

DIMENSION TO CENTERLINE

DIMENSION LINE

EXISTING CONSTRUCTION TO REMAIN

EXISTING CONSTRUCTION TO BE REMOVED

NEW CONSTRUCTION

CENTERLINE

DOOR NUMBER

WINDOW NUMBER

PARTITION TYPE

ROOM TAG
Room Name
Room Number
Room Area (If Displayed)

ELEVATION MARKER

SPOT ELEVATION

ROOF PITCH

KEYED NOTE

FURNITURE TAG
POUNDS PER SQUARE FOOT
POINT
PAINTED

NORTH ARROW
Plan North
True North

DRAWING REVISION / REVISION NUMBER

COLUMN GRID TAG

ACCESSIBLE ELEMENT

CLEAR FLOOR SPACES FOR WHEELCHAIR: 2'-6" x 4'-0" AND 5'-0" DIAMETER

STAIR TAG
20 R @ 7 1/2"

DIRECTION OF DOWNWARD SLOPE

ROOM FINISH TAG
CEILING
BASE
FLOOR
WALL

WALL FINISH TAG
WALL
CEILING

FINISH TRANSITION TAG

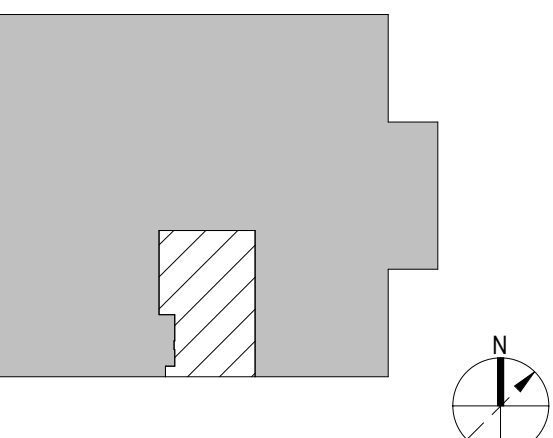
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CT INNOVATIONS

CT INNOVATIONS – THE DISTRICT
470 James St,
Unit 8, New Haven, CT
06513

CONSULTANTS

KEY PLAN



PROJECT DATA

| | |
|-------------------------|---|
| PROJECT NUMBER | 19039 |
| CURRENT SUBMISSION DATE | 08.29.2019 |
| DRAWN | NNM |
| CHECKED | DLS |
| SCALE | As indicated |
| FILE REFERENCE | C:\Users\kjd\Documents\19039_CT INNOVATIONS - THE DISTRICT_CENTRAL_2019_KEY.PLT |

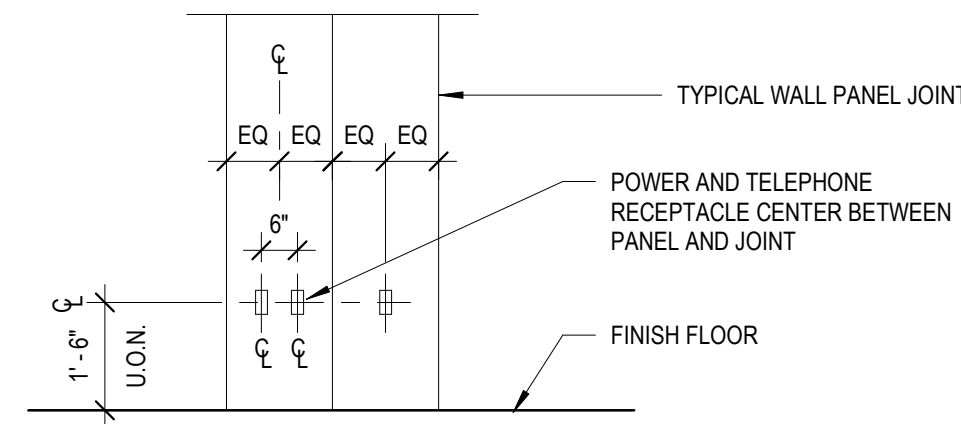
HISTORY OF SUBMISSIONS

| No. | Date | Description |
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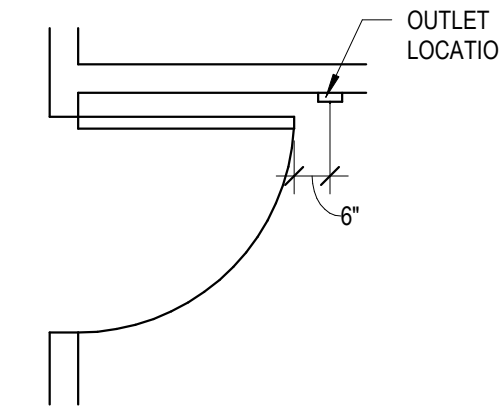
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GENERAL NOTES, SYMBOLS, GRAPHICS LEGEND

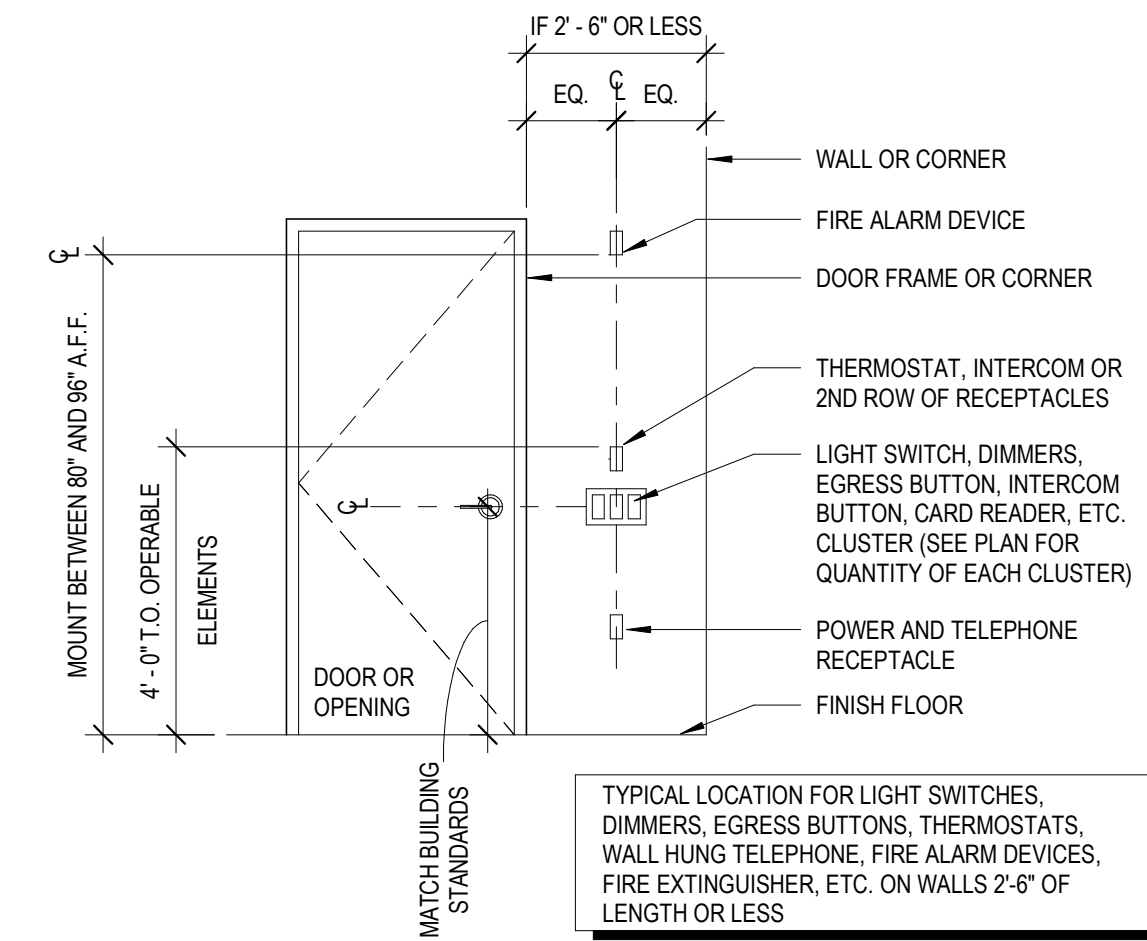


12 TYPICAL MOUNTING HEIGHTS IN A WALL PANEL ASSEMBLY
SCALE: 3/8" = 1'-0"

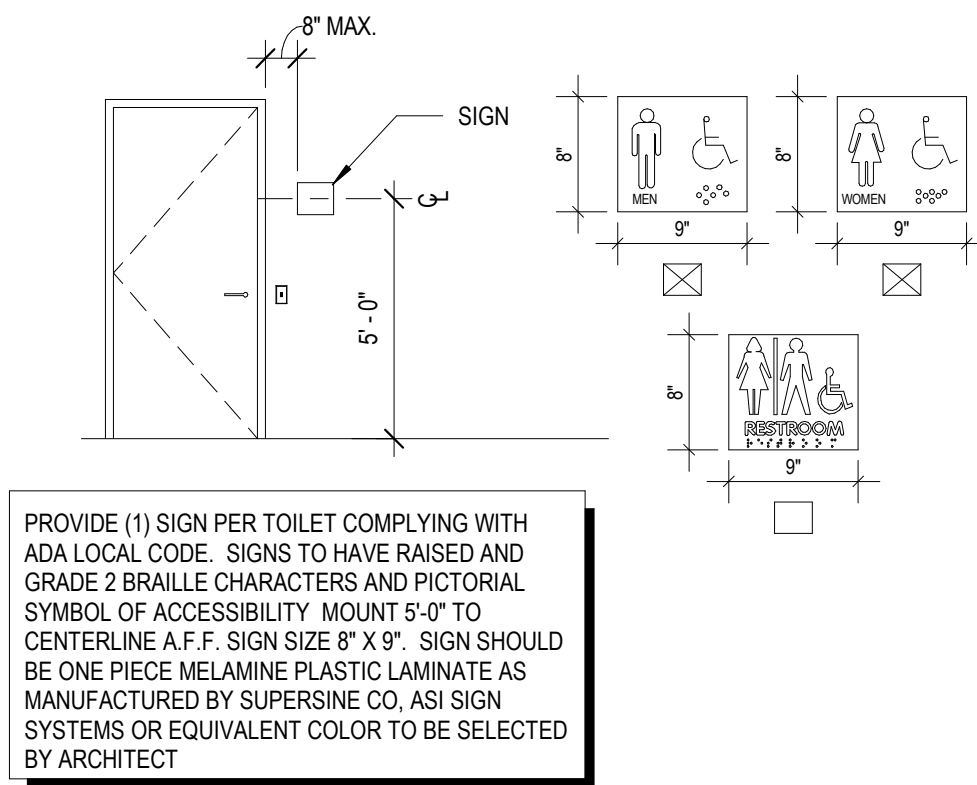
NOTE: ALL GANG OUTLETS SHALL BE VERTICALLY MOUNTED 18" A.F.F. AT DEVICE C.L.
ALL GANG OUTLETS SHALL BE HORIZONTALLY MOUNTED AT 6"



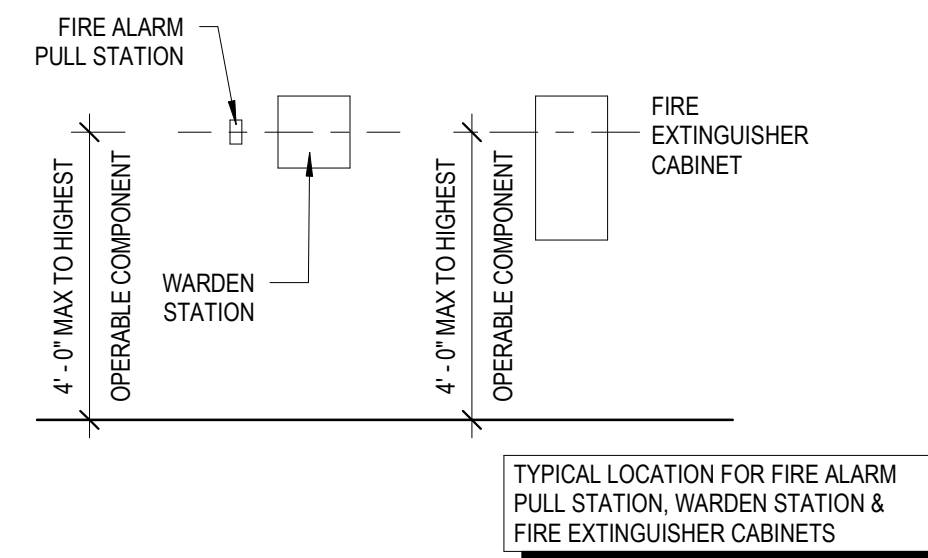
8 TYPICAL MOUNTING LOCATION OF OUTLET AT DOOR WHEN OPEN
SCALE: 3/8" = 1'-0"



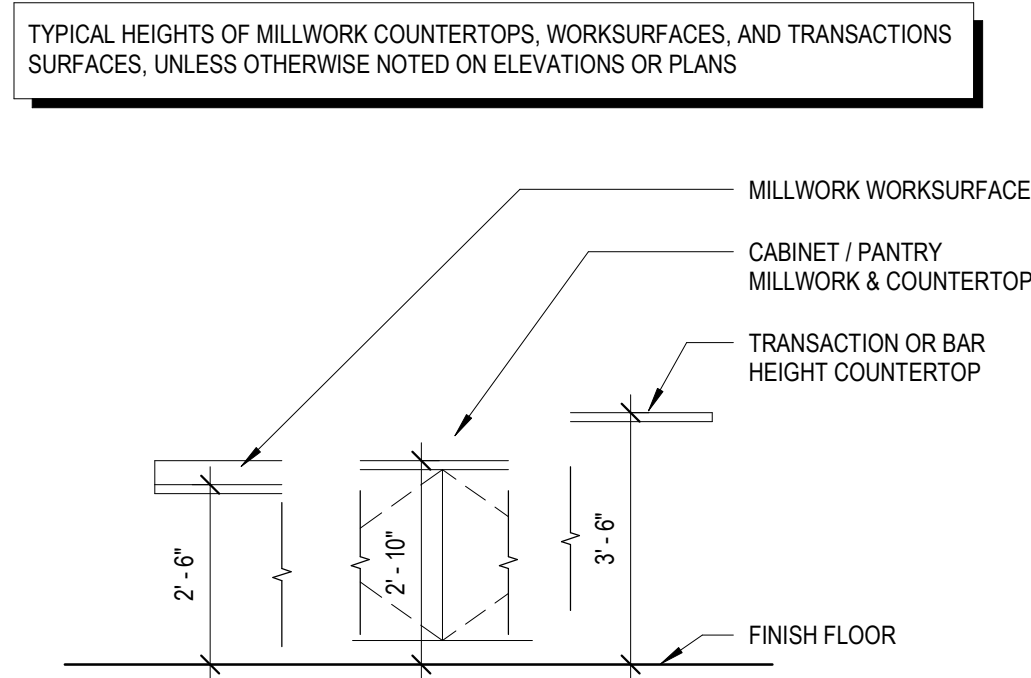
4 TYPICAL MOUNTING HEIGHTS AT CORNER CONDITION
SCALE: 3/8" = 1'-0"



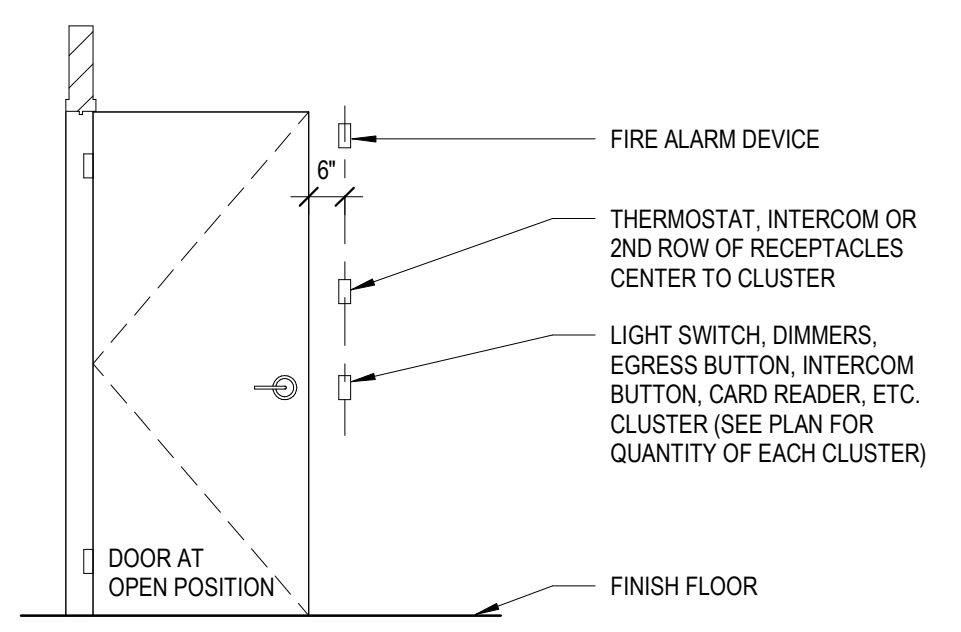
19 HANDICAPPED SIGNAGE INFORMATION
SCALE: 1/4" = 1'-0"



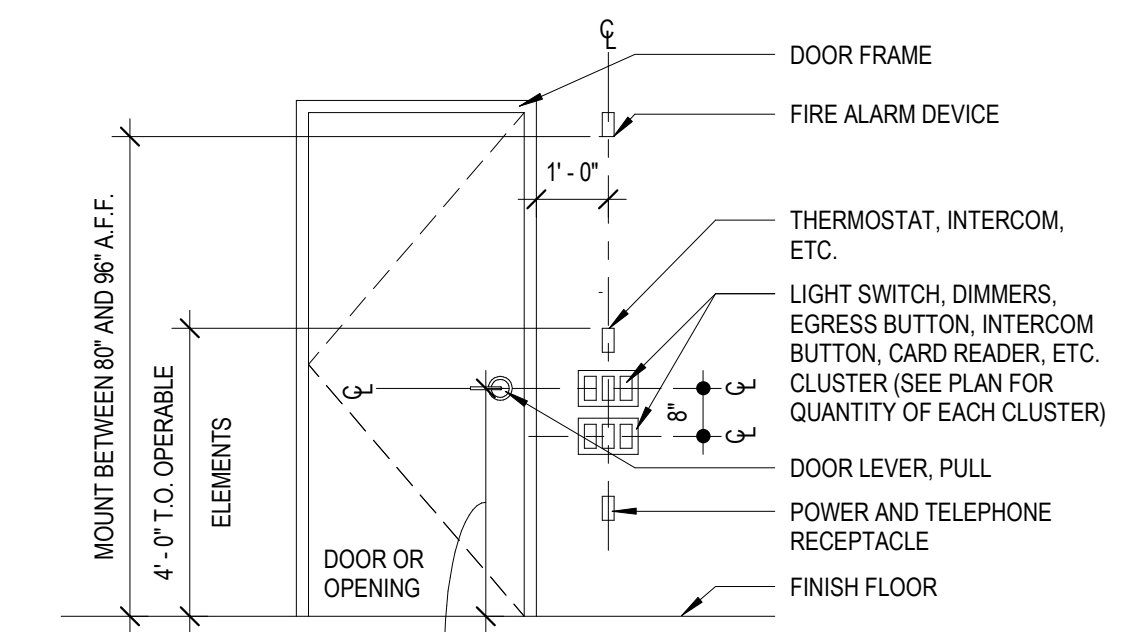
14 TYPICAL MOUNTING HEIGHTS AT FIRE PROTECTION EQUIPMENT
SCALE: 3/8" = 1'-0"



11 TYPICAL SURFACE HEIGHTS
SCALE: 3/8" = 1'-0"



7 TYPICAL MOUNTING HEIGHTS AT DOOR WHEN OPEN
SCALE: 3/8" = 1'-0"



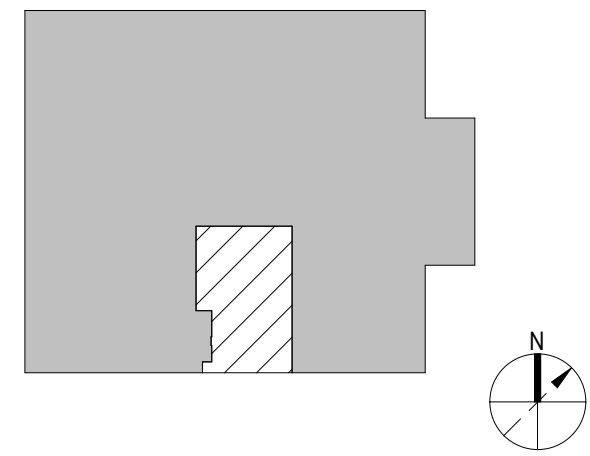
3 TYPICAL MOUNTING HEIGHTS AT DOOR/OPENINGS
SCALE: 3/8" = 1'-0"

CT INNOVATIONS

CT INNOVATIONS - THE DISTRICT
470 James St,
Unit 8, New Haven, CT
06513

CONSULTANTS

KEY PLAN



PROJECT DATA

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|-------------------------|---|
| PROJECT NUMBER | 19039 |
| CURRENT SUBMISSION DATE | 08.29.2019 |
| DRAWN | NNM |
| CHECKED | DLS |
| SCALE | As indicated |
| FILE REFERENCE | C:\Users\kej\Documents\19039_CT INNOVATIONS - THE DISTRICT_CENTRAL_2019_KEY.rvt |

HISTORY OF SUBMISSIONS

| No. | Date | Description |
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TYPICAL MOUNTING HEIGHTS AND CLEARANCES

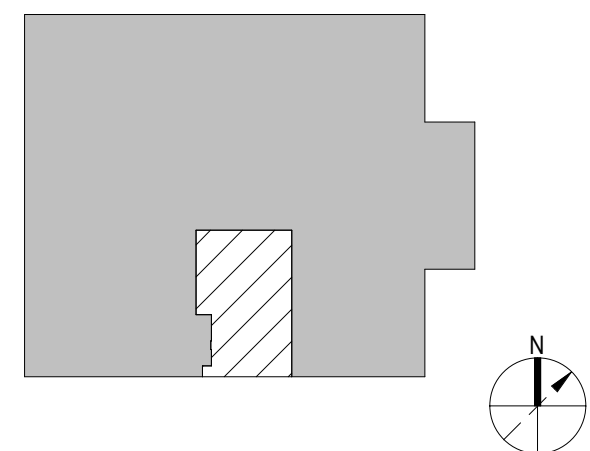
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CT INNOVATIONS

CT INNOVATIONS – THE DISTRICT
 470 James St,
 Unit 8, New Haven, CT 06513

CONSULTANTS

KEY PLAN



PROJECT DATA

PROJECT NUMBER 19039
 CURRENT SUBMISSION DATE 08.29.2019
 DRAWN NNM
 CHECKED DLS
 SCALE As indicated
 FILE REFERENCE C:\Users\kej\Documents\19039_CT INNOVATIONS - THE DISTRICT_CENTRAL_2019_KEJ.rvt

HISTORY OF SUBMISSIONS

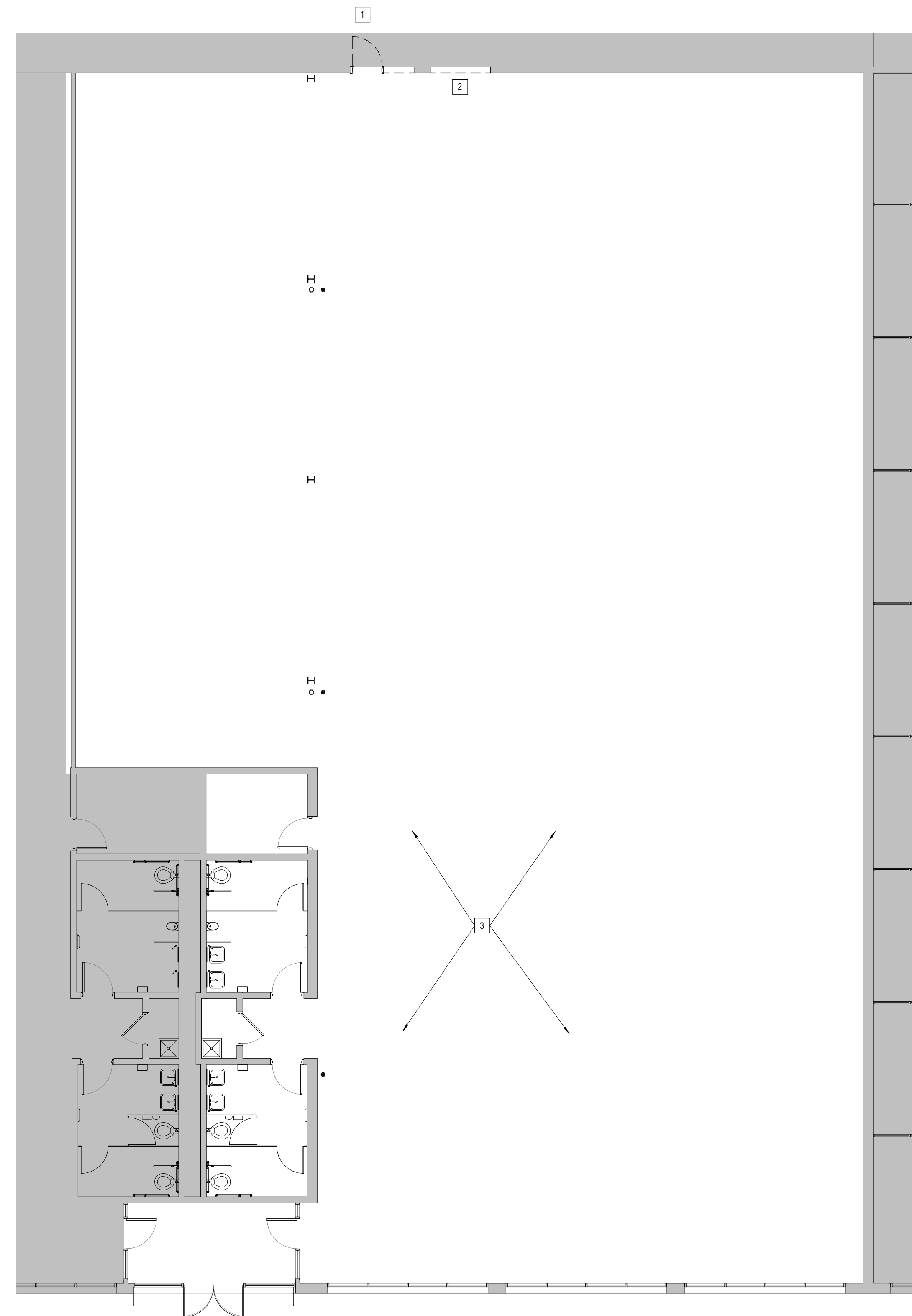
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SHEET TITLE

DEMOLITION PLANS,
 DEMOLITION KEY NOTES

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5 1ST FLOOR PLAN – DEMOLITION PLAN
 SCALE: 1/8" = 1'-0"

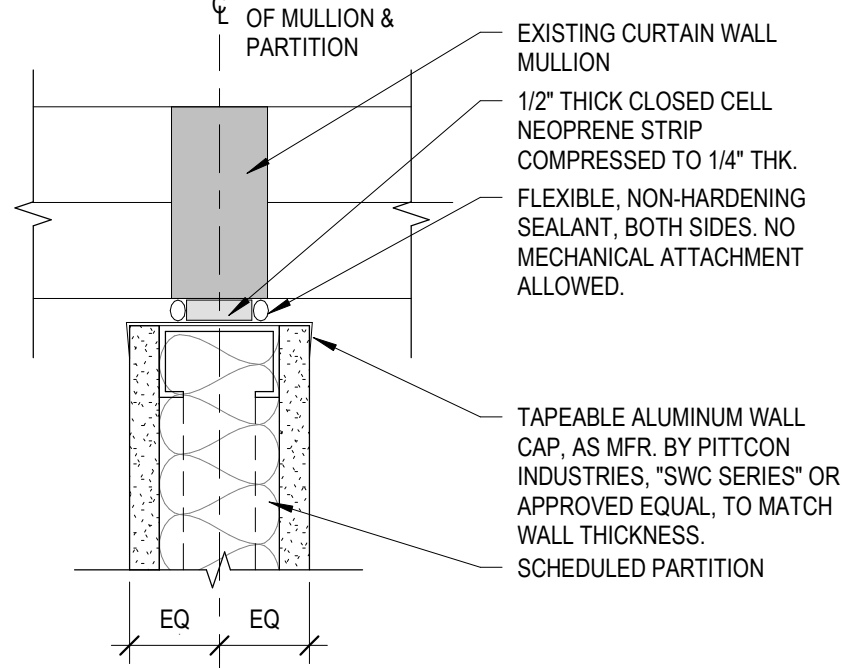
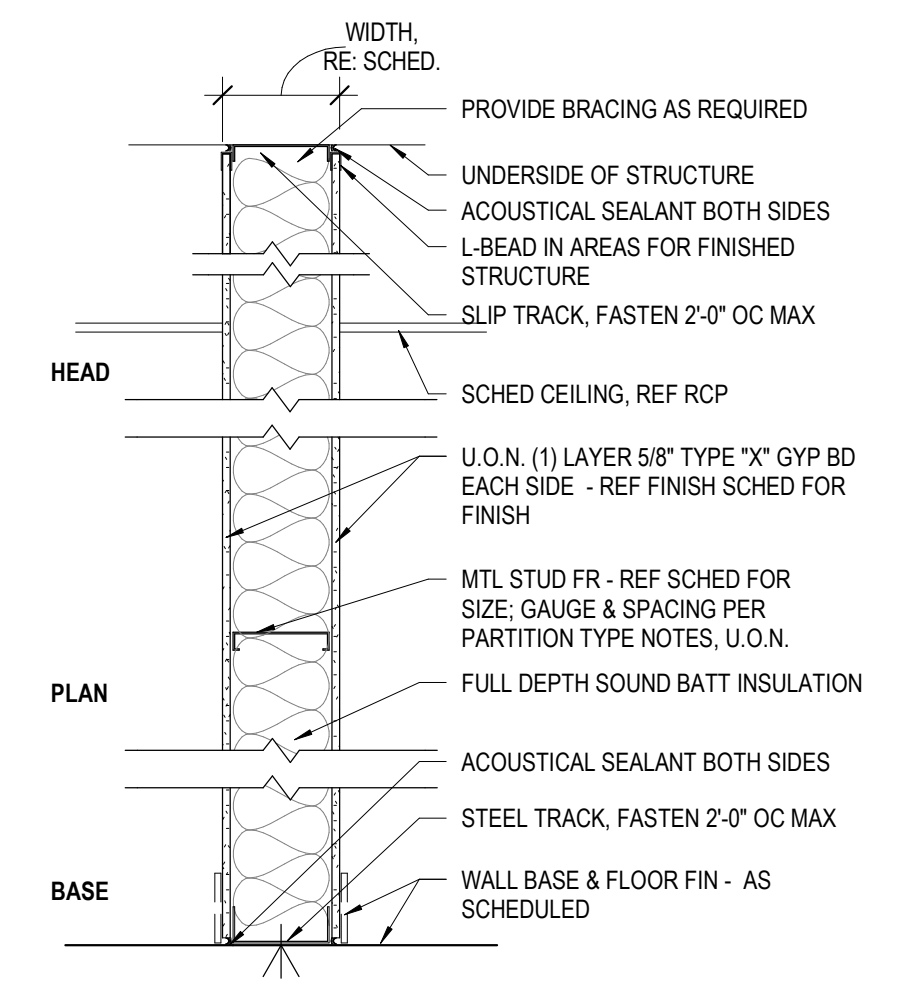
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED

DEMOLITION CEILING PLAN LEGEND

| GENERAL DEMOLITION NOTES | |
|--------------------------|--|
| 1 | DEMOLITION PLANS SHOW APPROXIMATE LAYOUT OF EXISTING PARTITIONS, DOORS, WINDOWS, FURNITURE, ETC. AND ARE NOT INTENDED TO REPRESENT AS-BUILT CONDITIONS. ALL INFORMATION MUST BE VERIFIED ON SITE. |
| 2 | ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH ANSI A10.6, THE STATE DEMOLITION CODE, THE CONSTRUCTION SAFETY AND HEALTH REGULATIONS AND REQUIREMENTS OF THE LOCAL AUTHORITIES. A FIRE WATCH SHALL BE PROVIDED AS REQUIRED. |
| 3 | NO BUILDING ELEMENTS SHALL BE LEFT IN A TEMPORARY CONDITION OR EXPOSED FOR AN EXCESSIVE OR UNREASONABLE AMOUNT OF TIME. |
| 4 | PARTITIONS AND OTHER ITEMS TO BE REMOVED ARE SHOWN DASHED. WHERE WALLS ARE TO BE REMOVED, SERVICES IN WALLS SHALL ALSO BE REMOVED OR RELOCATED. COORDINATE WITH MEPPF, STRUCTURAL AND CIVIL. CONTRACTOR TO FIELD VERIFY ALL EXISTING ELECTRICAL FIXTURES & RECEPTACLES SCHEDULED TO REMAIN. REMOVE ANY DEVICES AND WIRING THAT DO NOT CORRESPOND WITH PROPOSED ELECTRICAL LAYOUT PLAN. REMOVE ALL ABANDONED ELECTRICAL WIRING FROM ABOVE CEILING & EXISTING WALLS THAT WILL REMAIN; REMOVE WIRING BACK TO PANEL OR NEXT LOGICAL JUNCTION BOX LOCATION. |
| 5 | PROVIDE NECESSARY BARRIERS AS REQUIRED TO SECURE SCOPE OF WORK AREA AT THE END OF EACH DAY. |
| 6 | ERECT AND MAINTAIN DUST PROOF PARTITIONS AS REQUIRED TO PREVENT SPREAD OF DUST, FUMES, AND SMOKE, ETC. TO OTHER PARTS OF THE BUILDING. ON COMPLETION, REMOVE PARTITIONS AND REPAIR DAMAGED SURFACES TO MATCH ADJACENT SURFACES. |
| 7 | IF DEMOLITION IS PERFORMED IN EXCESS OF THAT REQUIRED, RESTORE AFFECTED AREAS AT NO COST TO THE OWNER. |
| 8 | PROVIDE PROTECTION OF ADJACENT AREAS AND BUILDING COMPONENTS NOT TO BE DISTURBED, INCLUDING PATHS OF TRAVEL FROM SITE ENTRANCE TO SPECIFIC SCOPE OF WORK AREAS. |
| 9 | PROVIDE SUITABLE COVERED CONTAINERS TO RECEIVE DEBRIS. USE OF WATER SHALL BE LIMITED TO A LIGHT SPRAY TO PREVENT THE SPREAD OF DUST. NO BURNING OF MATERIALS SHALL BE PERMITTED. |
| 10 | PROVIDE AND MAINTAIN FIRE PROTECTION THROUGHOUT DEMOLITION AND CONSTRUCTION. |
| 11 | ANY ITEM NOT SPECIFICALLY IDENTIFIED, BUT REQUIRED TO BE REMOVED OR REPAIRED TO PREPARE THE BUILDING FOR NEW WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. |
| 12 | SCHEDULE ALL SHUTDOWNS OF UTILITIES IN OCCUPIED PORTIONS OF THE BUILDING WITH THE OWNER (AND LOCAL FIRE DEPARTMENT IF NECESSARY) PRIOR TO IMPLEMENTING. |
| 13 | SEE MEPPFP FOR ASSOCIATED DEMOLITION. CONTRACTOR SHALL COORDINATE DEMOLITION DRAWINGS AND NOTES WITH ALL DISCIPLINES. |
| 14 | REPAIR STRUCTURAL FLOOR / FLOORING SUBSTRATE AS REQUIRED TO PREPARE FOR SCHEDULED FLOORING SYSTEMS PER MANUFACTURER SPECIFICATIONS & REQUIREMENTS. |
| 15 | ANY ELECTRICAL, PHONE, THERMOSTAT, OR OTHER DEVICES & WIRING LOCATED WITHIN SCOPE OF WORK AREA SCHEDULED TO BE DEMOLISHED SHOULD BE RELOCATED OUT OF REACH FOR FURTHER DEMOLITION BY THEIR RESPECTIVE TRADES. |
| 16 | ALL PLUMBING NO LONGER IN USE SHALL BE REMOVED IN ITS ENTIRETY. |
| 17 | REMOVE EXISTING LIGHT FIXTURES, DIFFUSERS, ETC. AS REQUIRED DUE TO NEW LAYOUT. SAVE CEILING ITEMS FOR REUSE WHERE INDICATED. REFER TO REFLECTED CEILING PLAN FOR SCOPE OF WORK REGARDING NEW CEILING. SPRINKLER PIPING AND DUCTWORK SHALL BE MODIFIED AS REQUIRED TO ACCOMMODATE NEW LAYOUT. |
| 18 | EXISTING BASEBOARD HEATING SYSTEM TO REMAIN; REFER TO MECHANICAL DRAWINGS FOR FURTHER INFORMATION. |
| 19 | REMOVE EXISTING PARTITIONS AS REQUIRED FOR SCHEDULED DOORS TO BE INSTALLED UNDER THE NEW SCOPE OF WORK; REFER TO CONSTRUCTION PLAN. |
| 20 | COORDINATE ALL REQUIRED CORE DRILLING & TRENCHING WITH POWER PLANS. |

| AEA KEYNOTES - DEMOLITION PLANS | |
|---------------------------------|--|
| 1 | REMOVE EXISTING DOOR, FRAME, SIDELITE, AND HARDWARE IN ITS ENTIRETY AND RETURN TO OWNER. |
| 2 | REMOVE PORTION OF EXISTING WALL AS REQUIRED FOR NEW TENANT ENTRY DOORS. |
| 3 | PREPARE PORTION OF EXISTING CONCRETE FLOOR FOR NEW STAINED CONCRETE FINISH. |

- REFER TO PARTITION TYPE DIAGRAMS, REFERENCED BY THE "PARTITION SYMBOL", INDICATING THE COMPONENTS AND ASSEMBLY OF EACH PARTITION.
- PROVIDE 20 GAUGE METAL STUDS AT 16" O.C., U.O.N.
- GYPSUM BOARD SHALL BE 5/8" THICK, U.O.N.
- FIRE-RESISTANCE-RATED & STC-RATED PARTITIONS & STC-RATED SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF THE TESTED ASSEMBLY UNLESS MORE STRINGENT REQUIREMENTS ARE DESIGNATED BY DETAIL.
- FIRESTOP SHALL BE USED AT FIRE RATED PARTITIONS. RECESSED BOXES SHALL BE SEALED AND RUNNERS SHALL BE SET IN 2 BEADS OF SEALANT OR AS REQUIRED BY MANUFACTURER. FIRESTOPPING SHALL BE PROVIDED FOR ALL FIRE RATED WALL OR SLAB PENETRATIONS IN ORDER TO MAINTAIN FIRE RATINGS AS REQUIRED.
- ALL NON-FIRE RATED PARTITIONS SHALL HAVE ALL PENETRATIONS AND INTERSECTIONS SEALED AIR TIGHT WITH ACOUSTICAL SEALANT.
- PROVIDE METAL BACKING PLATES FOR WALL-MOUNTED ACCESSORIES & CONSTRUCTION.
- TILE BACKER BOARD IS REQUIRED AT ALL TILE LOCATIONS. COORDINATE WITH FINISHES AND ELEVATIONS AS REQUIRED.
- ALL PANEL SURFACES EXPOSED TO VIEW, UNLESS OTHERWISE INDICATED, TO BE LEVEL 4 FINISH.
- PROVIDE MOISTURE RESISTANT GYPSUM BOARD AT ALL KITCHEN AREAS WITH SINKS.



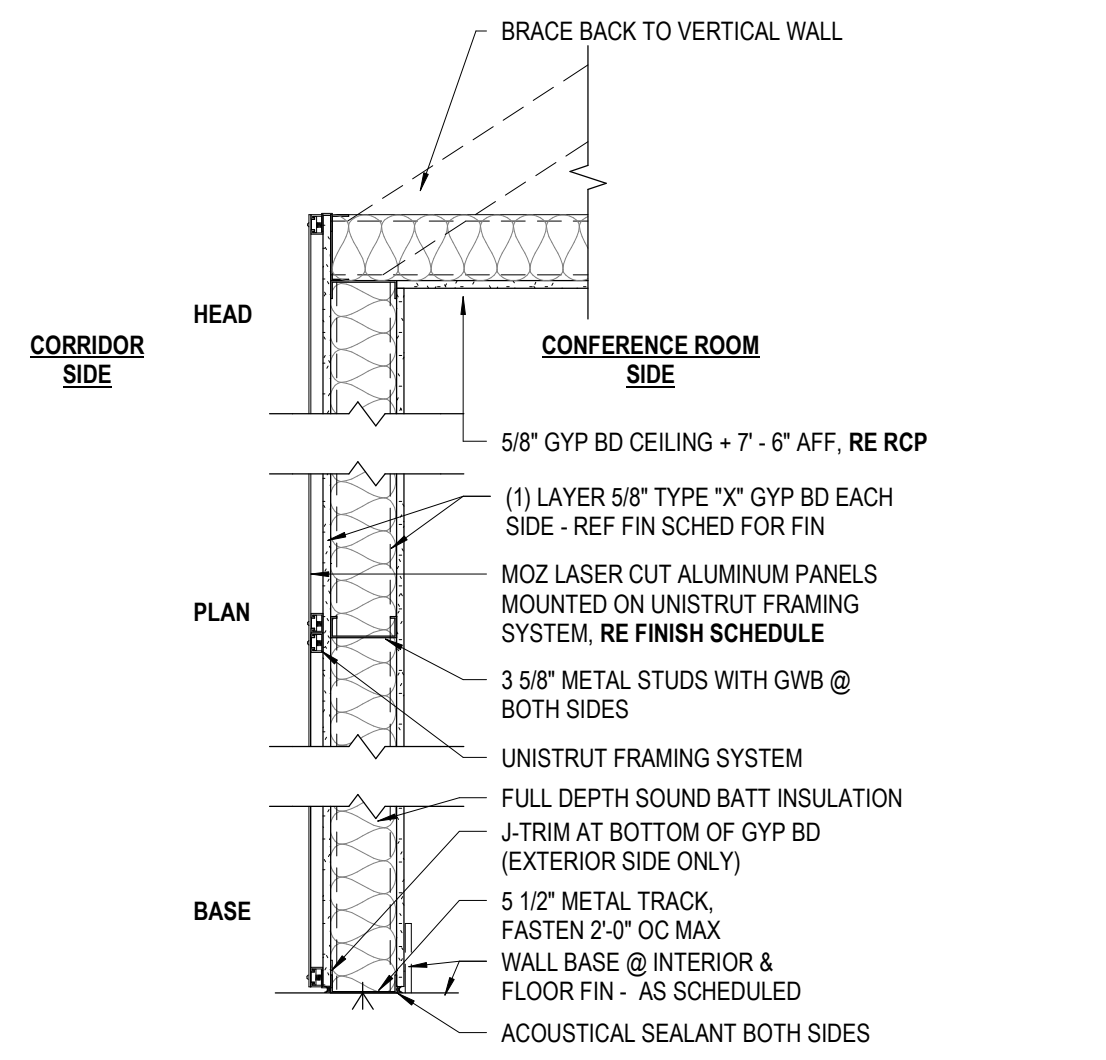
- KEYED NOTES:**
- PROVIDE DELEGATED DESIGN (BY LICENSED ENGINEER) FOR ENGINEERED METAL FRAMING (MAX 6" C-SHAPE JOISTS) WITH TUBE STEEL FRAME TO SUPPORT "BOX" AND GLASS COMPONENTS.
 - PROVIDE DELEGATED DESIGN (BY LICENSED ENGINEER) FOR ENGINEERED METAL FRAMING (MAX 6" C-SHAPE JOISTS) WITH 6" X 6" METAL FRAMED BOX BEAM AT OPENING AND TIE INTO POSTS AT BACK END. G.C. HAS OPTION TO UTILIZE TUBE STEEL POST & BEAM DESIGN, COORDINATE CEILING FRAMING TO AVOID LIGHT FIXTURE PLACEMENT.

20 GENERAL PARTITION NOTES

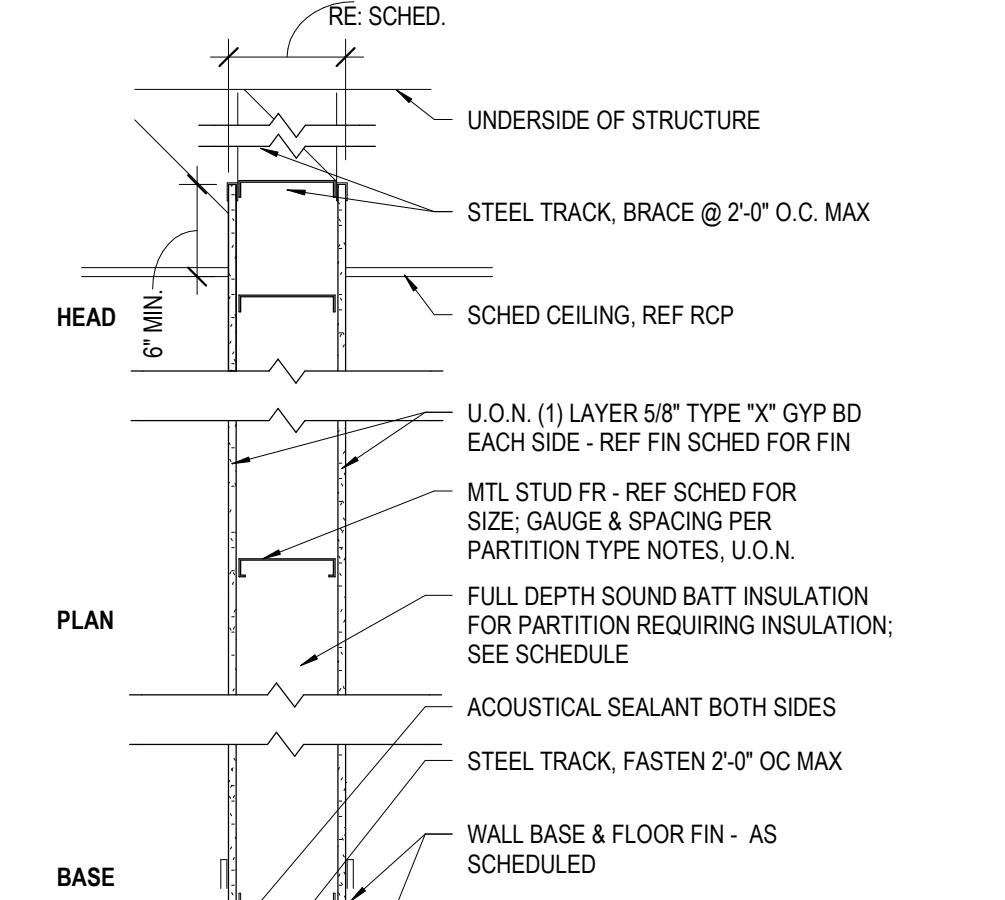
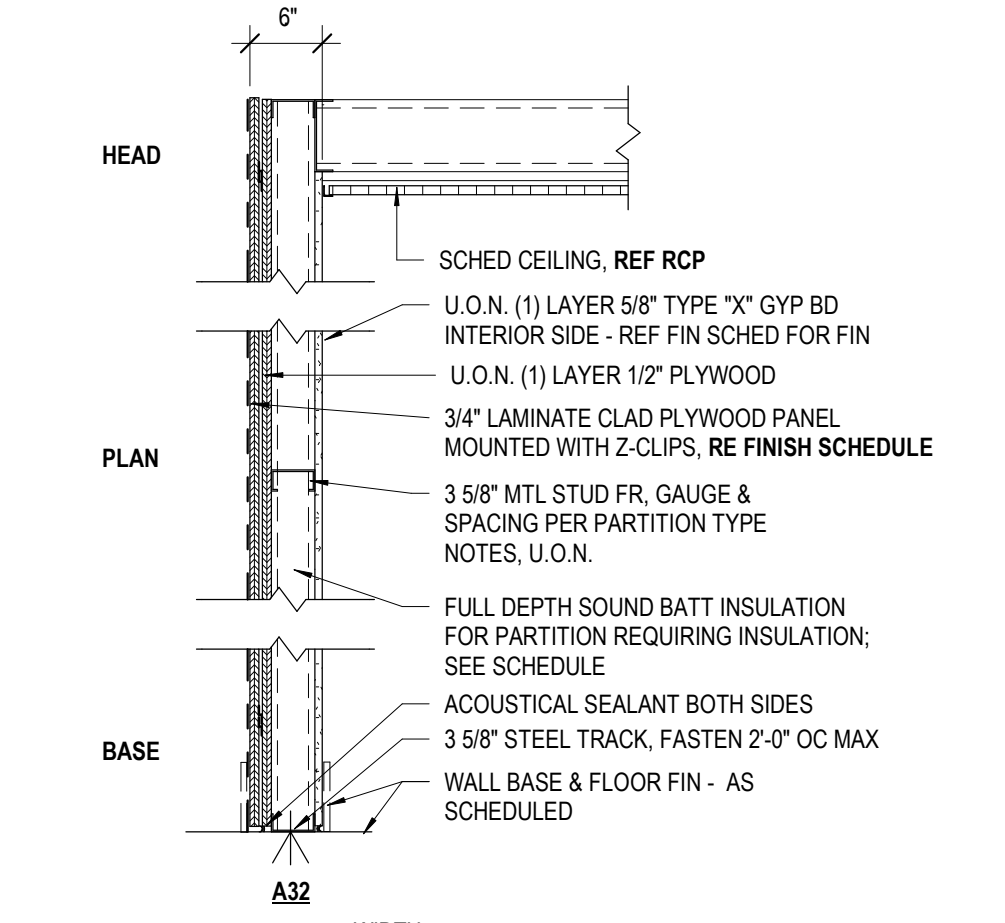
| GENERAL CONSTRUCTION NOTES | |
|----------------------------|---|
| 1 | ALL WORK SHALL BE INSTALLED PER ALL APPLICABLE CODES AND ALL OTHER AUTHORITIES HAVING JURISDICTION. |
| 2 | OBTAIN AND PAY FOR PERMITS AND INSPECTIONS REQUIRED BY PUBLIC AUTHORITIES GOVERNING THE WORK. |
| 3 | REVIEW DOCUMENTS, VERIFY DIMENSIONS AND FIELD CONDITIONS AND CONFIRM THAT WORK IS BUILDABLE AS SHOWN. REPORT ANY CONFLICTS OR OMISSIONS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO PERFORMING ANY WORK IN QUESTION. REFER TO GENERAL NOTES REGARDING THE REQUEST FOR INFORMATION (RFI) PROCESS. |
| 4 | SUBMIT REQUESTS FOR SUBSTITUTIONS, REVISIONS, OR CHANGES TO ARCHITECT FOR REVIEW PRIOR TO PURCHASE, FABRICATION OR INSTALLATION. REFER TO GENERAL NOTES PAGE REGARDING SUBSTITUTIONS & REVISIONS. |
| 5 | COORDINATE WORK WITH THE OWNER/LANDLORD INCLUDING SCHEDULING TIME AND LOCATIONS FOR DELIVERIES, BUILDING ACCESS, USE OF BUILDING SERVICES AND FACILITIES, AND USE OF ELEVATORS. MINIMIZE DISTURBANCE OF BUILDING FUNCTIONS AND OCCUPANTS. |
| 6 | OWNER WILL PROVIDE WORK NOTED "BY OTHERS" OR "NIC" UNDER SEPARATE CONTRACT. INCLUDE SCHEDULE REQUIREMENTS IN CONSTRUCTION PROGRESS SCHEDULE AND COORDINATE TO ASSURE ORDERLY SEQUENCE OF INSTALLATION. |
| 7 | COORDINATE TELECOMMUNICATIONS, DATA AND SECURITY SYSTEM INSTALLATIONS WITH VENDORS. |
| 8 | MAINTAIN WORK AREAS SECURE AND LOCKABLE DURING CONSTRUCTION. COORDINATE WITH TENANT AND LANDLORD TO ENSURE SECURITY. |
| 9 | DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. IN CASE OF CONFLICT, CONSULT THE ARCHITECT. |
| 10 | THE ARCHITECT'S RESPONSIBILITY IN GENERAL ADMINISTRATION OF CONSTRUCTION IS FOR THE PURPOSE OF DETERMINING THAT THE WORK WHEN COMPLETED WILL BE IN CONFORMANCE WITH THE CONTRACT DOCUMENTS AND ENDEAVOR TO GUARD THE OWNER AGAINST DEFECTS AND DEFICIENCIES IN THE WORK. THE ARCHITECT WILL NOT HAVE CONTROL OVER OR CHARGE OF AND WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY. |
| 11 | OVERLAPPING/CONFLICTING REQUIREMENTS. MOST STRINGENT (GENERALLY MOST COSTLY) APPLY AND WILL BE ENFORCED. REFER TO ARCHITECT/ENGINEER FOR DECISION BEFORE PROCEEDING. |
| 12 | CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO BIDDING TO DETERMINE ALL EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXTENT OF ALL DEMOLITION AND NEW WORK. G.C. SHALL VERIFY CONDITION OF EXISTING WALLS TO REMAIN. G.C. SHALL VERIFY THIS WORK BEFORE PRICING PROJECT. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE ARCHITECT OF ANY DISCREPANCIES. FOLLOW GENERAL NOTES REGARDING RFIS. |
| 13 | ALL DIMENSIONS NOTED AS "HOLD" ARE CRITICAL. |
| 14 | PROVIDE FIRE TREATED WOOD BLOCKING (COMPLYING WITH ASTM E84) WITHIN NEW AND EXISTING WALLS AS REQUIRED FOR ANCHORING OF ALL BUILT-INS, SHELVING, CABINETRY, AND WALL MOUNTED ACCESSORIES. VERIFY LOCATIONS WITH ARCHITECT. COORD. TELEVISION LOCATIONS WITH POWER PLAN & BLOCKING REQUIREMENTS (W/A) AUDIOVISUAL DOCUMENTS AND CONSULTANT, OR B) CLIENT PROVIDED TELEVISION WALL MOUNTED BRACKET. |
| 15 | PROVIDE TWO (2) 20 GAUGE METAL STUDS AT JAMBS OF ALL NEW DOOR OPENINGS. |
| 16 | ALL CONCEALED BLOCKING SHALL BE FIRE TREATED, COMPLYING WITH ASTM E84. |
| 17 | PROVIDE AND INSTALL ONE (1) 4'-0" X 8'-0" FIRE RETARDANT PLYWOOD PANEL AT DATA ROOM. VERIFY EXACT LOCATION AND REQUIREMENTS WITH ELECTRICAL DRAWINGS. |
| 18 | DETAILS NOTED AS TYPICAL APPLY TO ALL SIMILAR LOCATIONS UNLESS OTHERWISE NOTED. |
| 19 | CONTRACTOR'S PRICE SHALL INCLUDE A COMPLETE CONSTRUCTION CLEANUP. |
| 20 | CONTRACTOR TO HAVE A "SHOP VAC" OR SIMILAR EQUIPMENT ON SITE TO KEEP SITE CLEAN DURING THE CONSTRUCTION PROCESS. |
| 21 | INTERIOR DIMENSIONS SHOWN IN PLAN ARE TO FINISHED FACE OF PARTITION, INCLUDING ANY APPLIED FINISHES SUCH AS CERAMIC TILE, UNLESS OTHERWISE NOTED. |
| 22 | PROVIDE CONTINUOUS TAPEABLE J-TRIM AT ALL EXPOSED EDGES OF GYPSUM WALL BOARD. PROVIDE COMPRESSIBLE BACKER ROD AND SEALANT IF GWB ADJUTS ADJACENT CONSTRUCTION. |
| 23 | PATCH ALL EXISTING WALLS WHERE REQUIRED TO CREATE SMOOTH SURFACE FOR PAINT, STUCCO, PLASTER, OR CERAMIC TILE FINISH AS SCHEDULED. WHERE NEW FINISH IS NOT SCHEDULED, PATCH WALLS AND/OR TOOTH IN SALVAGED MATERIALS, AS REQUIRED TO MATCH EXISTING ADJACENT FINISH. |
| 24 | COORDINATE PARTITION CONSTRUCTION WITH FINISH PLANS. |
| 25 | AT ANY EXISTING CONSTRUCTION TO RECEIVE NEW WORK (RE: NEW DOOR, INFILL PARTITION, ETC.) G.C. TO PATCH EXISTING CONSTRUCTION AS REQUIRED TO MATCH EXISTING ADJACENT SURFACE, U.O.N. |
| 26 | ALL NEW DOORS SHALL BE LOCATED 4" OFF FINISH WALL UNLESS OTHERWISE NOTED. (4" TO INSIDE FACE OF FRAME). |
| 27 | PROVIDE FIRESTOPPING JOINT SYSTEM AT ALL PENETRATIONS THROUGH ALL FIRE-RATED WALL AND FLOOR SYSTEMS. FIRESTOPPING SHALL BE DESIGNED TO RESIST THE SPREAD OF FIRE FOR A TIME PERIOD NOT LESS THAN THE REQUIRED FIRE RESISTANT RATING OF THE ADJACENT ASSEMBLY. ALL FIRE STOPPING ASSEMBLIES SHALL BE UL ASSEMBLIES. |
| 28 | PROVIDE ACOUSTICAL SEALANT FOR PENETRATIONS THROUGH ANY NON-FIRE RATED PARTITIONS OR ASSEMBLIES. |
| 29 | ALL DIMENSIONS TO BE VERIFIED IN FIELD BY CONTRACTOR. |
| 30 | REFER TO ELECTRICAL DRAWINGS FOR QUANTITIES AND TYPES OF DEVICES. REFER TO ARCHITECTURAL DRAWING G1.01 FOR TYPICAL MOUNTING HEIGHTS AND LOCATIONS, NOTIFY ARCHITECT OF ANY DISCREPANCIES. |
| 31 | ALL WIRING, CONDUIT, RACEWAYS, ETC. SHALL BE CONCEALED WITHIN WALLS. G.C. TO PROVIDE CUTTING, PATCHING, PLASTER RINGS AND PULL STRINGS AS REQUIRED TO PROVIDE SUCH CONCEALMENT. PATCH AND PAINT ENTIRE WALL AFFECTED BY NEW WORK. |
| 32 | WHERE ANY TELEPHONE, DATA & ELECTRICAL WIRING HAVE BEEN DEMOLISHED, PATCH WALL & FINISH AS SCHEDULED. WHERE ANY EXISTING JUNCTION BOXES OR CONDUIT HAVE BEEN REMOVED, PATCH WALL & FINISH AS SCHEDULED UNLESS INDICATED OTHERWISE. |
| 33 | CONTRACTOR TO INCLUDE IN HIS PRICING ALL MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION WORK PER ENGINEERS DRAWINGS TO COORDINATE WITH ARCHITECT'S DESIGN AND PROVIDE COMPLETE SYSTEMS. |
| 34 | CONTRACTOR RESPONSIBLE FOR PROTECTING DOOR FRAMES DURING CONSTRUCTION AS REQUIRED. |
| 35 | WHERE FLOOR TRENCHING IS REQUIRED FOR SCOPE OF WORK, PATCH FLOOR TO MATCH EXISTING ADJACENT STRUCTURAL SLAB / FLOOR SUBSTRATE. |
| 36 | ALL PARTITIONS SHALL BE TYPE A31, U.O.N. |
| 37 | ALL DEMISING & CORRIDOR PARTITIONS SHALL BE TYPE B31, U.O.N. |
| 38 | PREPARE EXISTING FLOOR SUBSTRATE AS REQUIRED FOR SCHEDULED FLOOR FINISH. PROVIDE FLOOR LEVELING COMPOUND AS REQUIRED TO PROVIDE LEVEL FINISH (1/4" PER 10' MAX) WITHIN ENTIRE TENANT AREA. INCLUDE \$10,000 ALLOWANCE FOR FLOOR LEVELING. |

| TYPE | WIDTH | FRAMING | FIRE RATING | STC RATING | SOUND INSUL. | COMMENTS |
|------|-----------|-----------|-------------|------------|--------------|----------|
| B31 | 0'-4 7/8" | 0'-3 5/8" | 0 | 40 | Yes | |

TYPE B - FULL HEIGHT GWB PARTITION
SCALE: 3/4" = 1'-0"



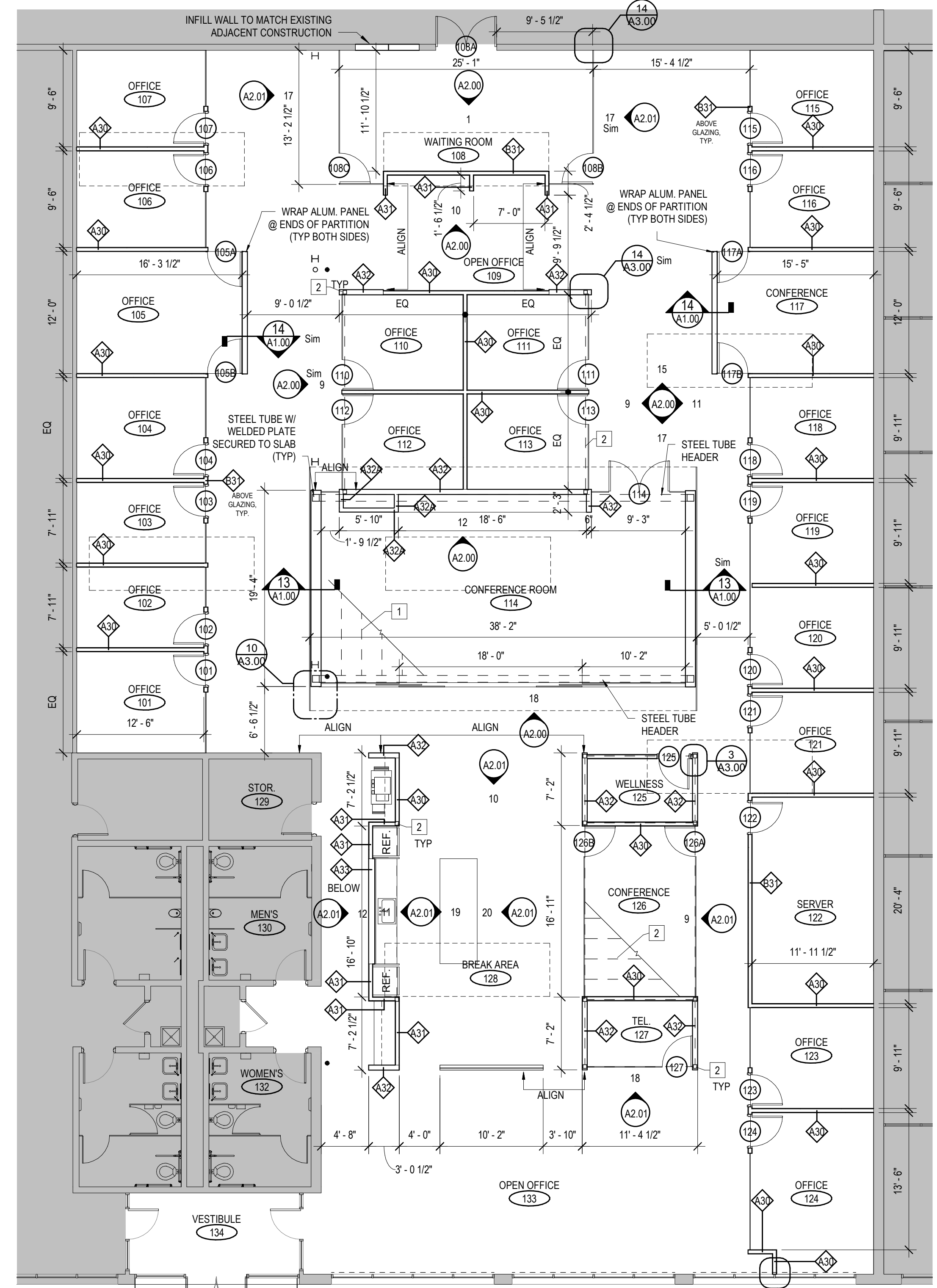
CONFERENCE ROOM 117 METAL SCREEN WALL
SCALE: 3/4" = 1'-0"



| TYPE | WIDTH | FRAMING | FIRE RATING | STC RATING | SOUND INSUL. | COMMENTS |
|------|-----------|-----------|-------------|------------|--------------|--|
| A30 | 0'-4 7/8" | 0'-3 5/8" | 0 | 40 | Yes | |
| A31 | 0'-4 7/8" | 0'-3 5/8" | 0 | 0 | No | |
| A32 | 0'-6" | 0'-3 5/8" | 0 | 40 | Yes | |
| A32A | 0'-4 7/8" | 0'-3 5/8" | 0 | 40 | Yes | GWB AT EXTERIOR (1) SIDE OF PARTITION ONLY |
| A33 | 0'-7 1/4" | 0'-6" | 0 | 0 | No | |

TYPE A - PARTIAL HEIGHT GWB PARTITION
SCALE: 3/4" = 1'-0"

8 WALL DETAIL @ MULLION
SCALE: 3" = 1'-0"



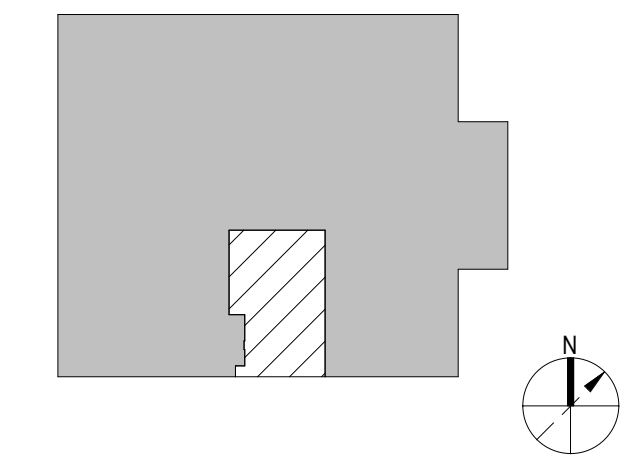
5 1ST FLOOR PLAN - CONSTRUCTION PLAN
SCALE: 1/8" = 1'-0"

CT INNOVATIONS

CT INNOVATIONS - THE DISTRICT
470 James St,
Unit 8, New Haven, CT
06513

CONSULTANTS

KEY PLAN



PROJECT DATA

| | |
|-------------------------|--|
| PROJECT NUMBER | 19039 |
| CURRENT SUBMISSION DATE | 08.29.2019 |
| DRAWN | NMM |
| CHECKED | DLS |
| SCALE | As Indicated |
| FILE REFERENCE | C:\Users\keji\Documents\19039_CT INNOVATIONS - THE DISTRICT_CENTRAL_2019_KEJ.rvt |

HISTORY OF SUBMISSIONS

| No. | Date | Description |
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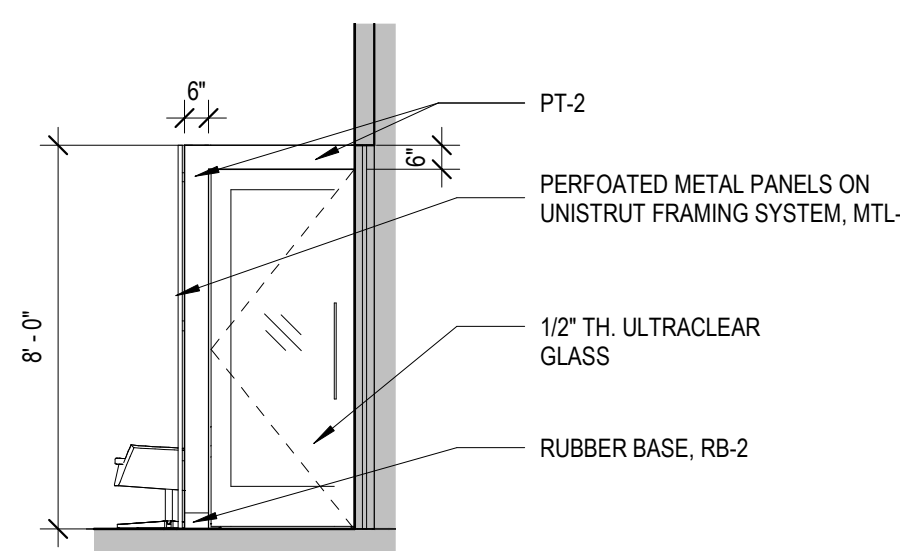
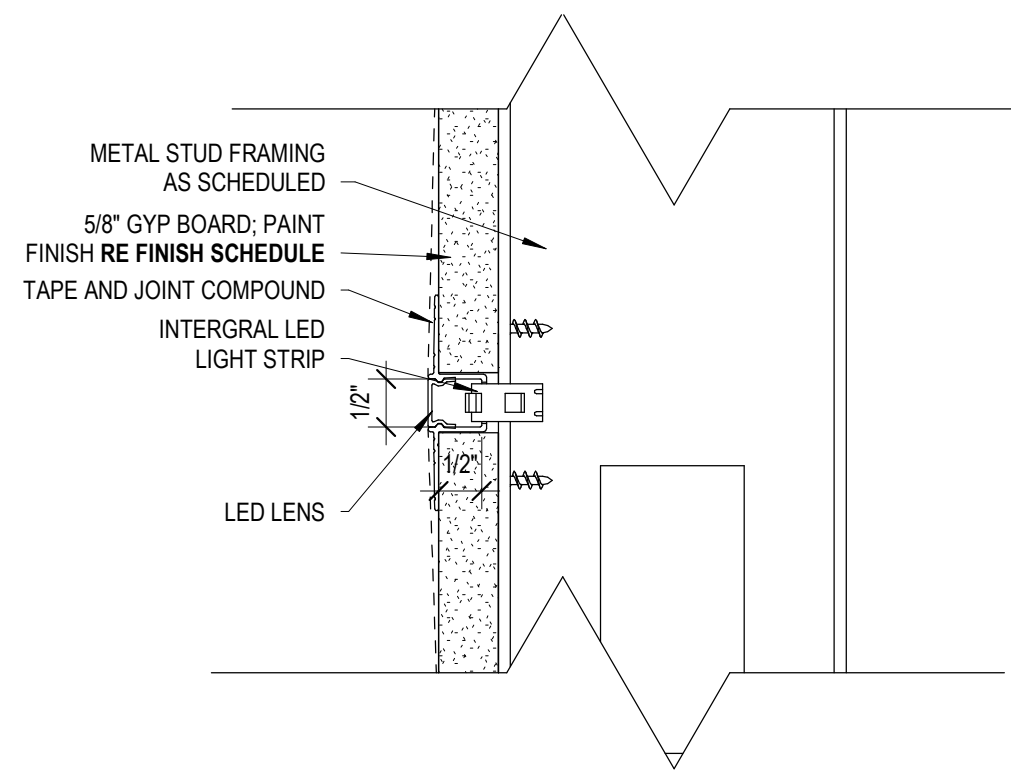
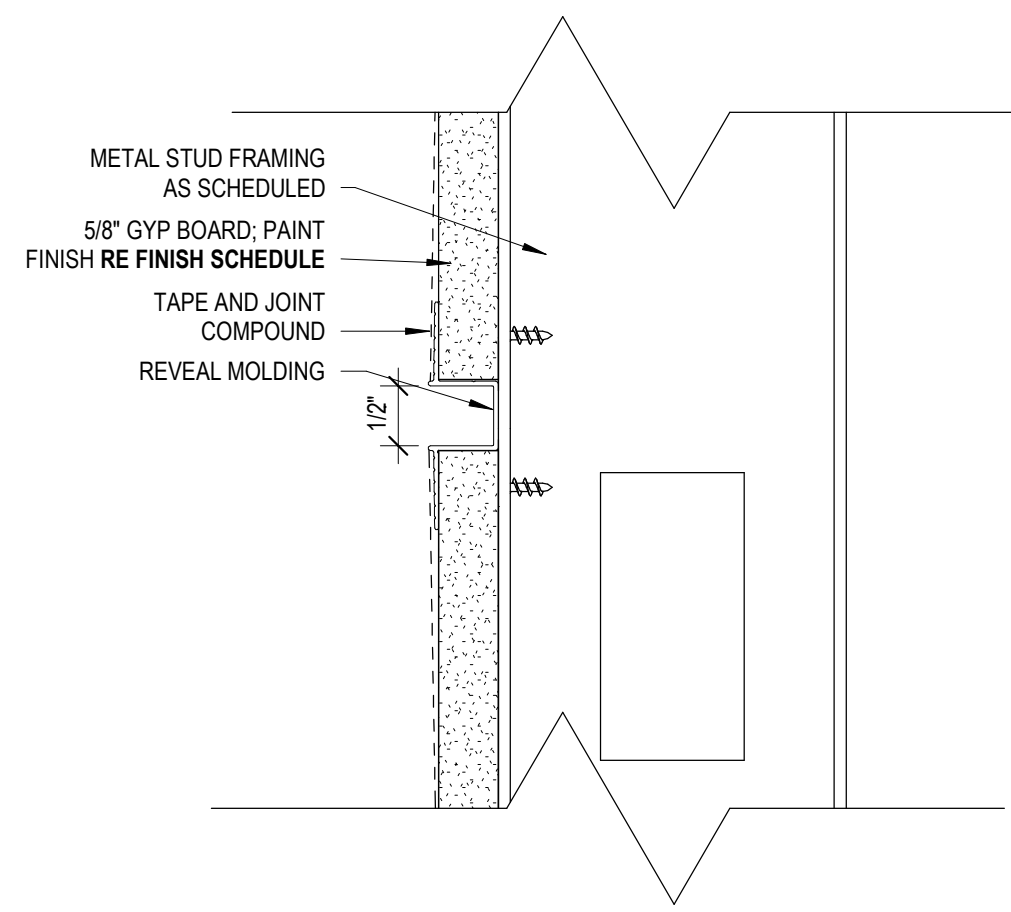
DD SET

SHEET TITLE

CONSTRUCTION AND DIMENSION PLANS

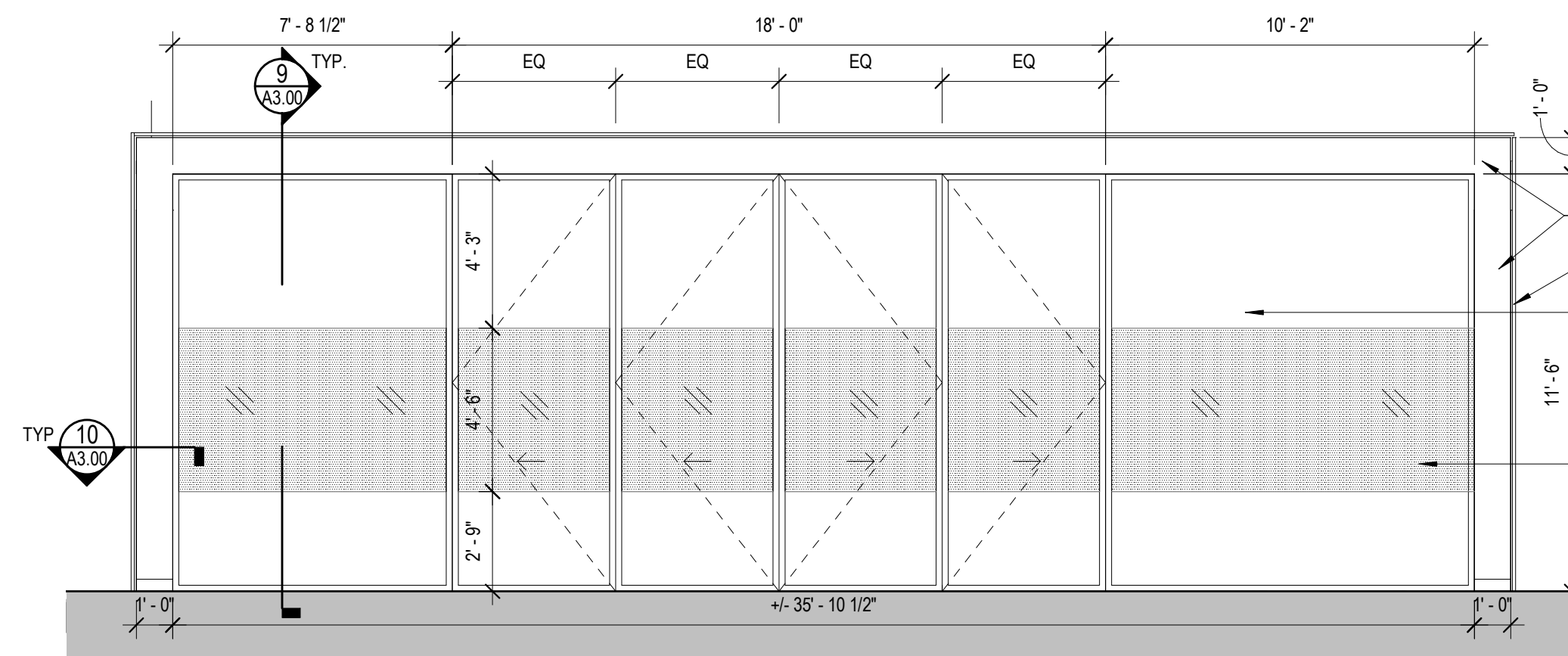
17 GENERAL CONSTRUCTION NOTES

13 SCREEN
SCALE: 3/4" = 1'-0"



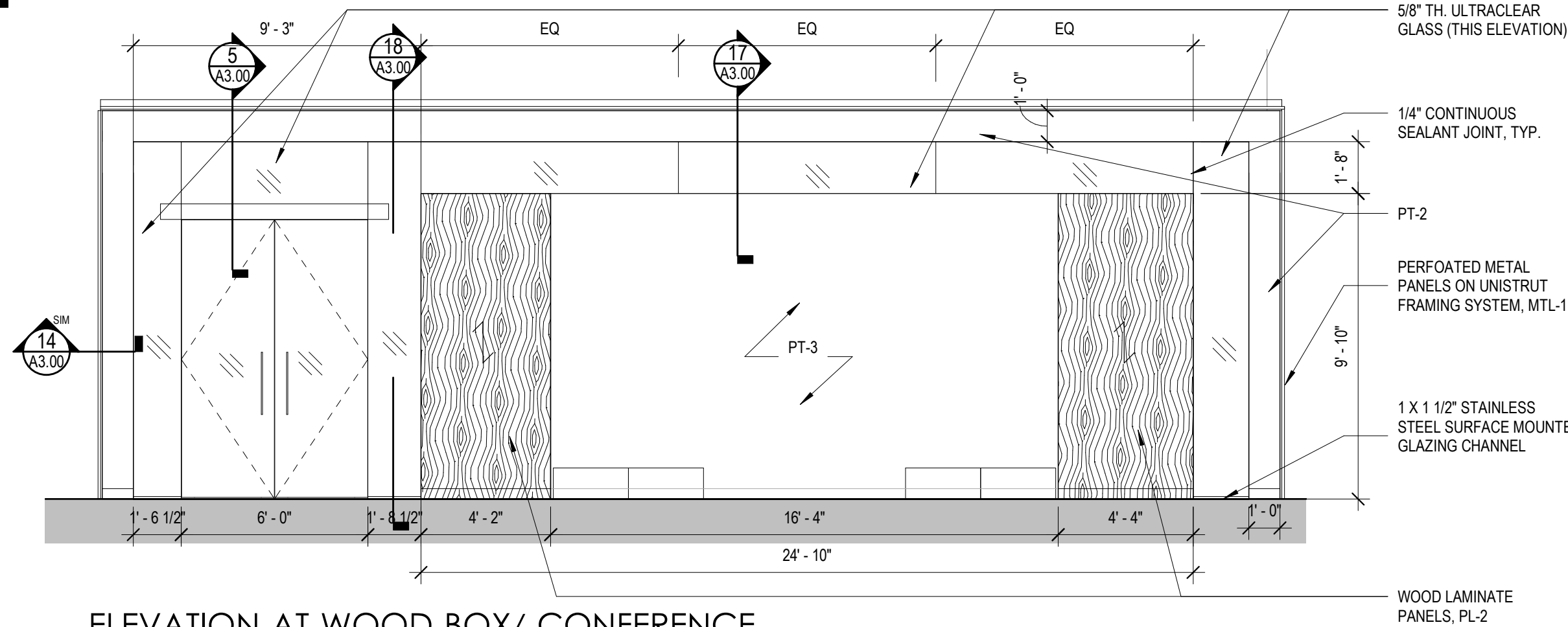
19 FRY REGLET REVEALS
SCALE: 6" = 1'-0"

15 TYP. ELEVATION @ SMALL CONF RM ENTRANCE
SCALE: 1/4" = 1'-0"

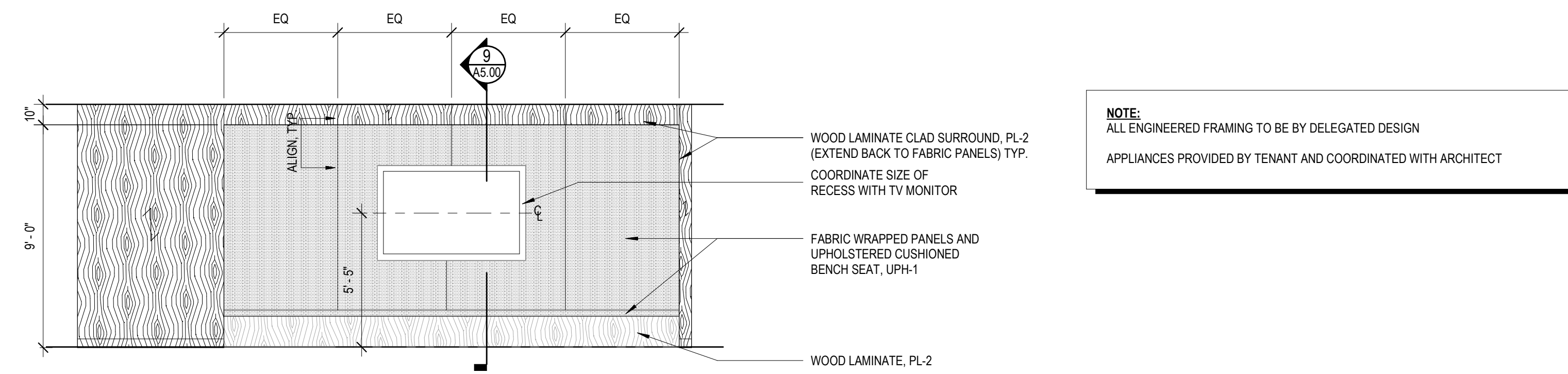


PT-2
PERFORATED METAL PANELS ON UNISTRUT FRAMING SYSTEM, MTL-1
NANA WALL CERAMIC SLIDING GLASS WALL SYSTEM (ALUMINUM), CONFIGURATION: 01L, 02L, X3L, X4L, X4R, X3R, 02R, 01R, 00R
SILL TYPE: FLUSH SILL NOT THERMALLY BROKEN
MOUNT OPTION: FLOOR (2) LAYERS (INTERIOR & EXTERIOR) OF FILM, FL-1

18 ELEVATION @ SLIDING GLASS DOORS
SCALE: 1/4" = 1'-0"

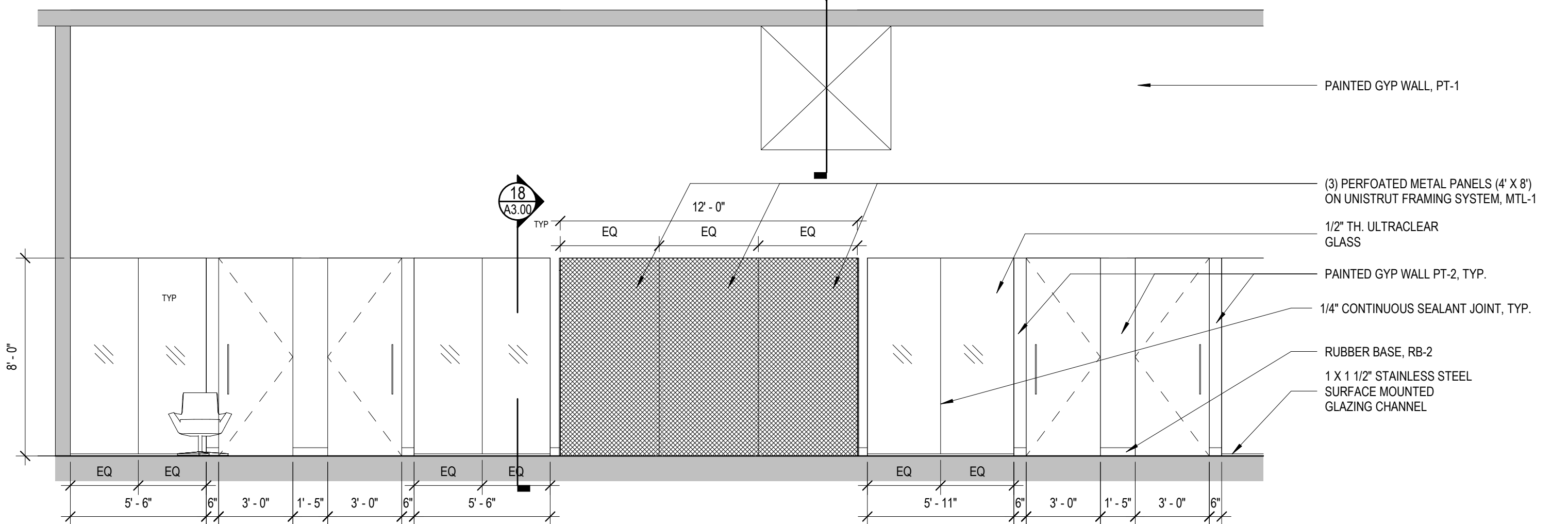


17 RM- SOUTH
SCALE: 1/4" = 1'-0"

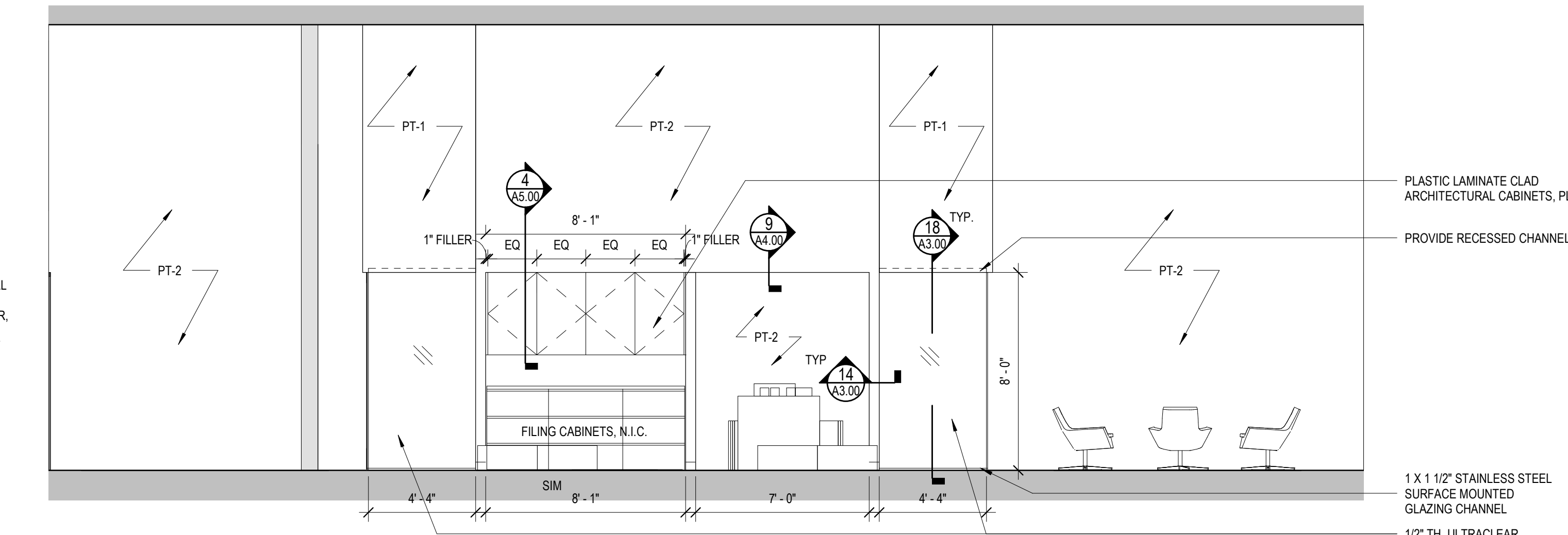


NOTE:
ALL ENGINEERED FRAMING TO BE BY DELEGATED DESIGN
APPLIANCES PROVIDED BY TENANT AND COORDINATED WITH ARCHITECT

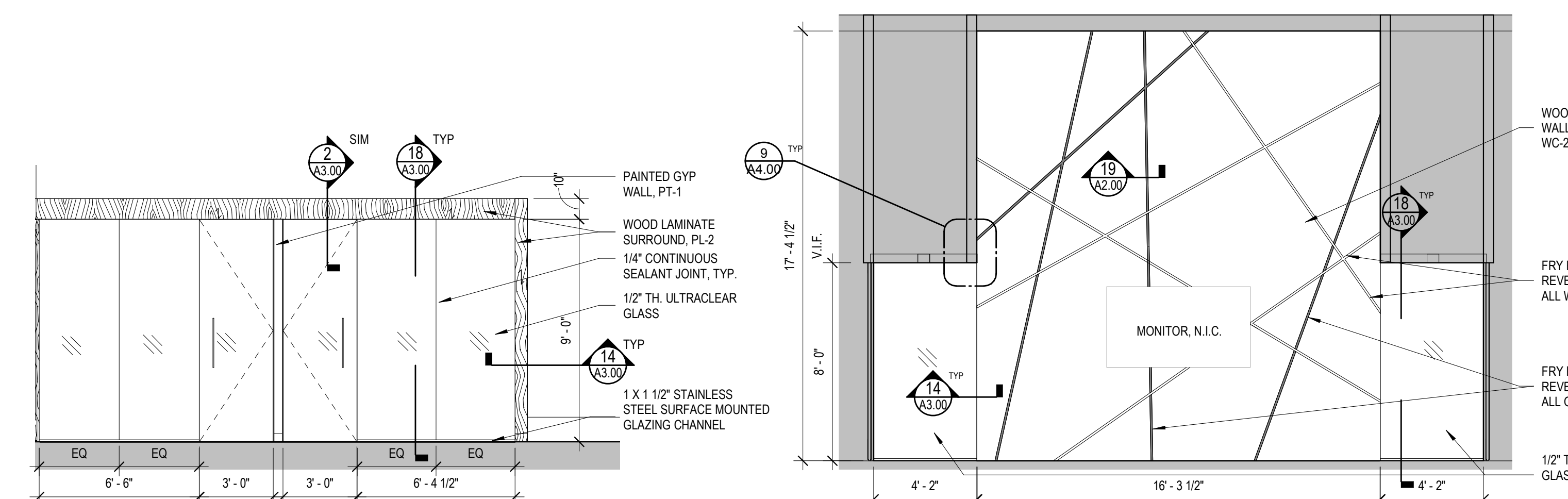
12 ELEVATION @ CONFERENCE ROOM NORTH
SCALE: 1/4" = 1'-0"



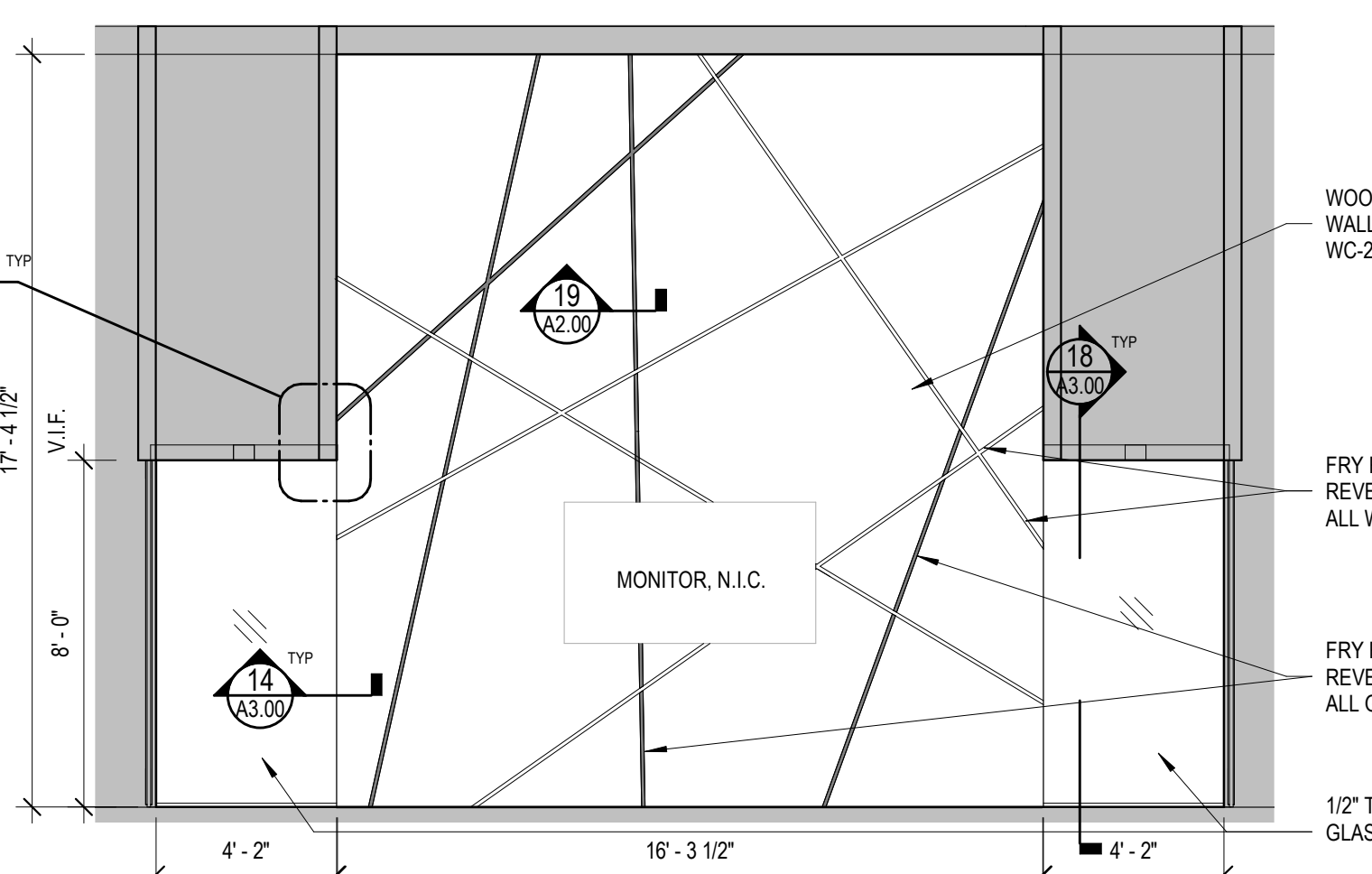
11 TYP. ELEVATION @ OFFICE FRONTS
SCALE: 1/4" = 1'-0"



10 ELEVATION @ FRONT PRINT STATION- NORTH
SCALE: 1/4" = 1'-0"



9 ELEVATION @ WOOD BOX - WEST
SCALE: 1/4" = 1'-0"



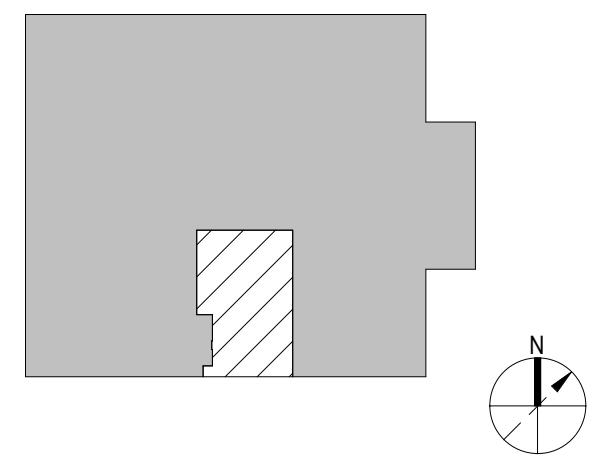
1 ELEVATION @ ENTRY - SOUTH
SCALE: 1/4" = 1'-0"

CT INNOVATIONS

CT INNOVATIONS - THE DISTRICT
470 James St,
Unit 8, New Haven, CT
06513

CONSULTANTS

KEY PLAN



PROJECT DATA

| | |
|-------------------------|---|
| PROJECT NUMBER | 19039 |
| CURRENT SUBMISSION DATE | 08.29.2019 |
| DRAWN | MKH |
| CHECKED | DLS |
| SCALE | As indicated |
| FILE REFERENCE | C:\Users\kej\Documents\19039_CT INNOVATIONS - THE DISTRICT_CENTRAL_2019_KEJ.rvt |

HISTORY OF SUBMISSIONS

| No. | Date | Description |
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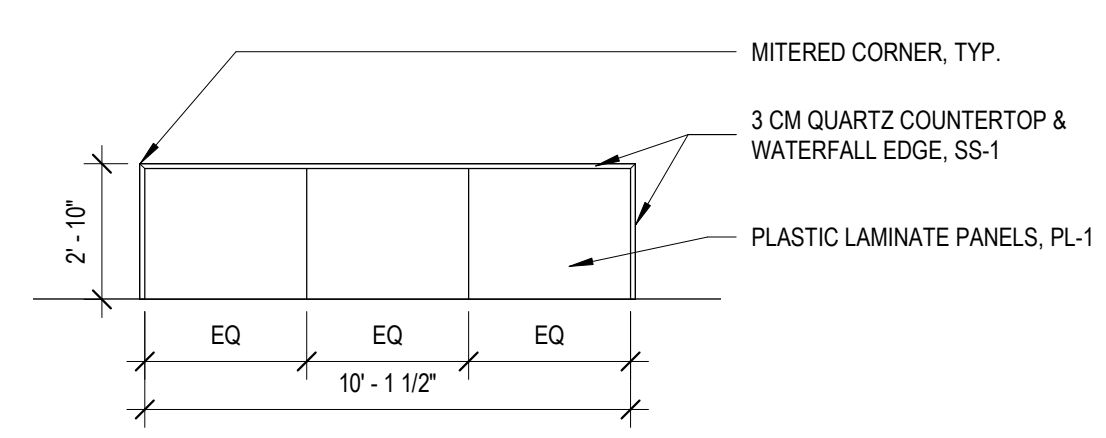
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SHEET TITLE

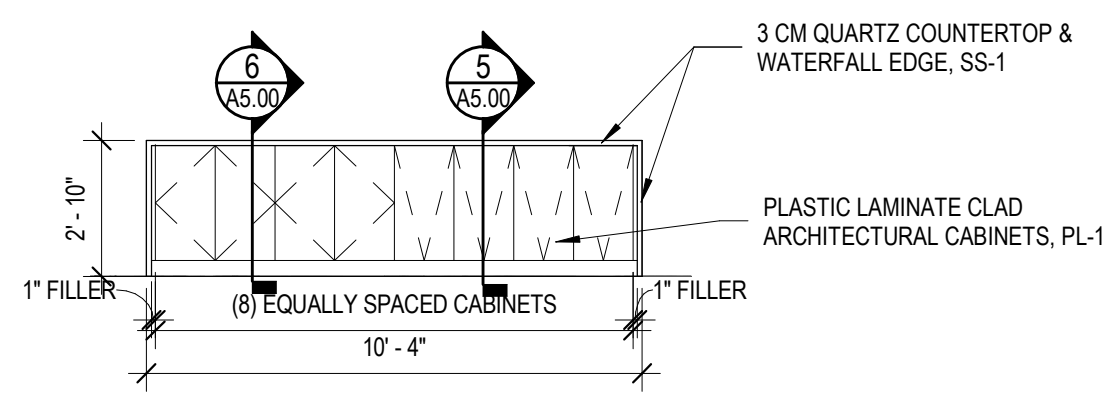
INTERIOR ELEVATIONS

8/29/2019 4:29:08 PM Amenta|Emma Architects, P.C. All rights reserved. Copying, reproduction or distribution prohibited without express written permission. © Copyright

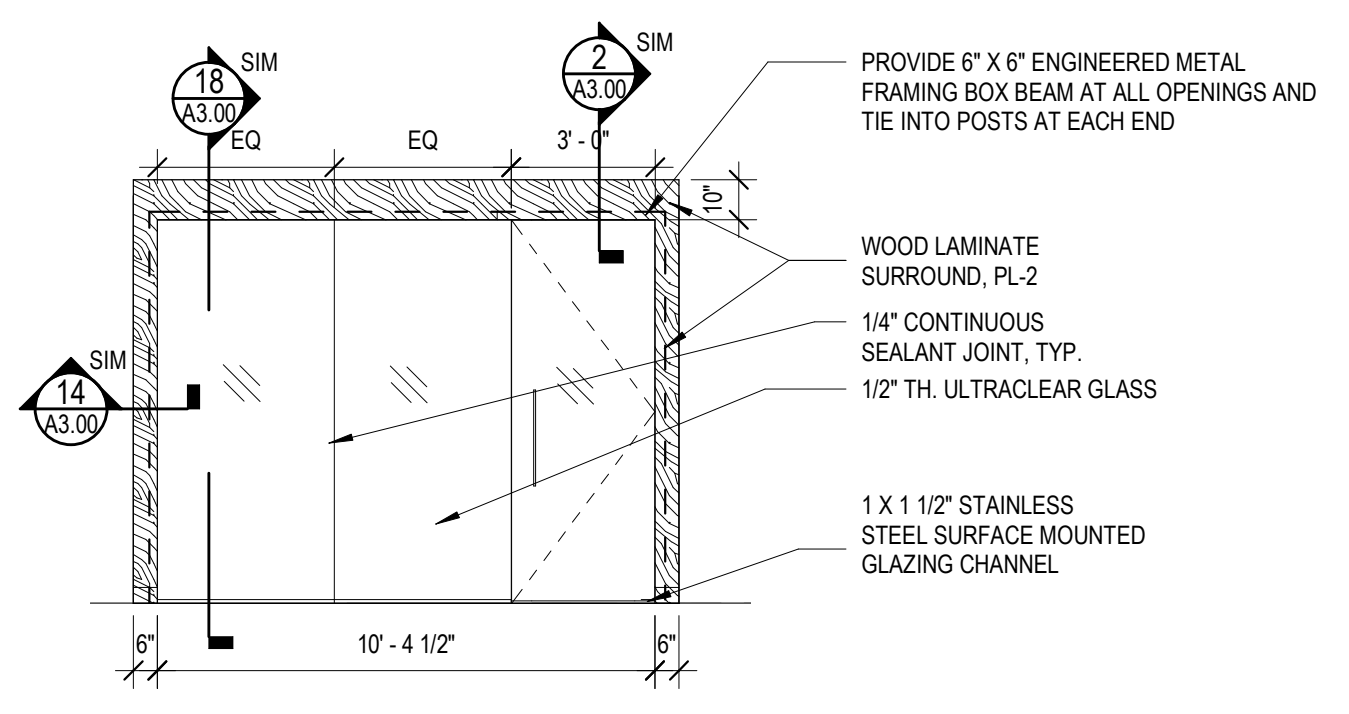
NOTE:
ALL ENGINEERED FRAMING TO BE BY DELEGATED DESIGN
APPLIANCES PROVIDED BY TENANT AND COORDINATED WITH ARCHITECT



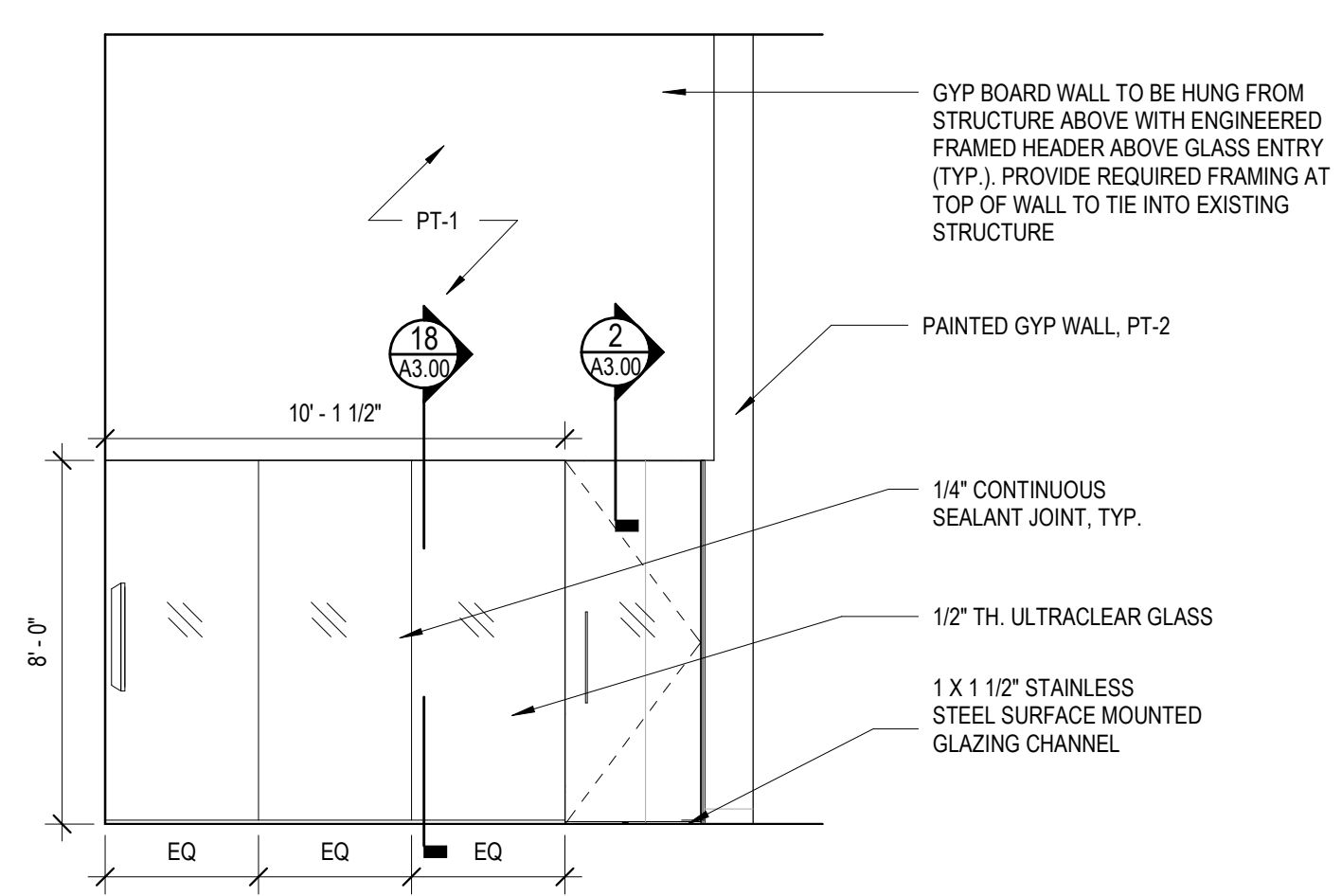
20 KITCHENETTE ISLAND - EAST
SCALE: 1/4" = 1'-0"



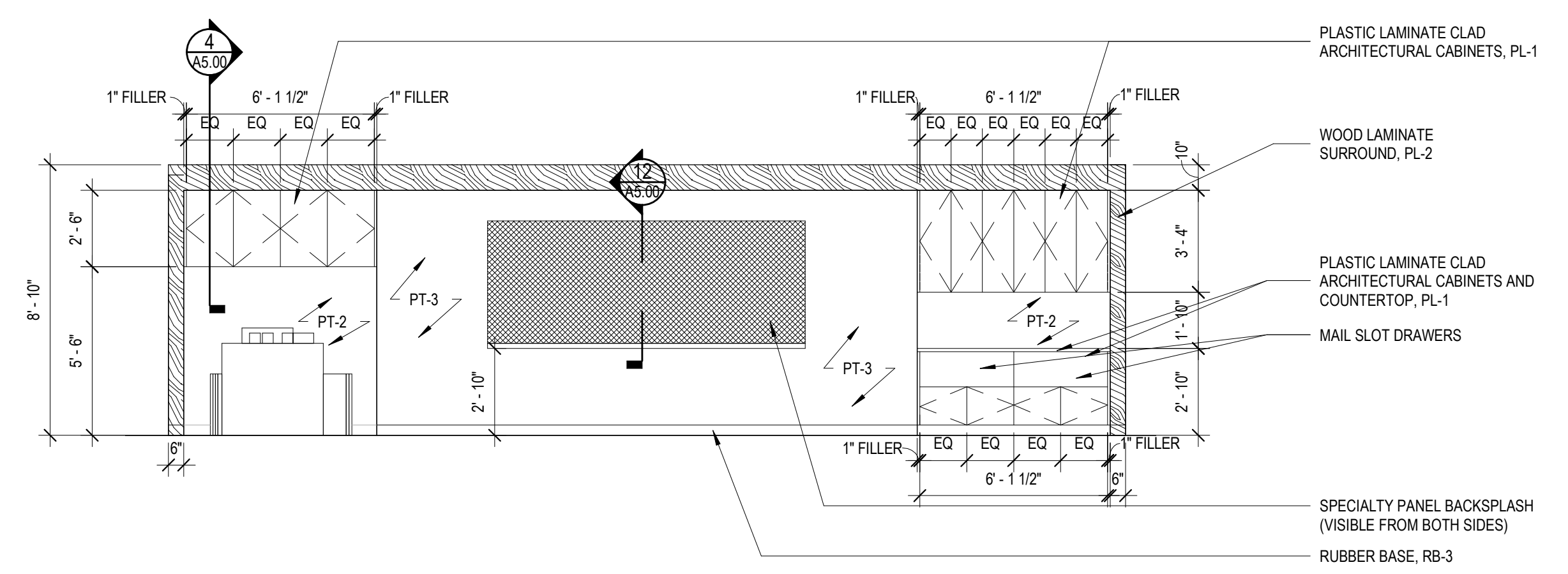
19 KITCHENETTE ISLAND - WEST
SCALE: 1/4" = 1'-0"



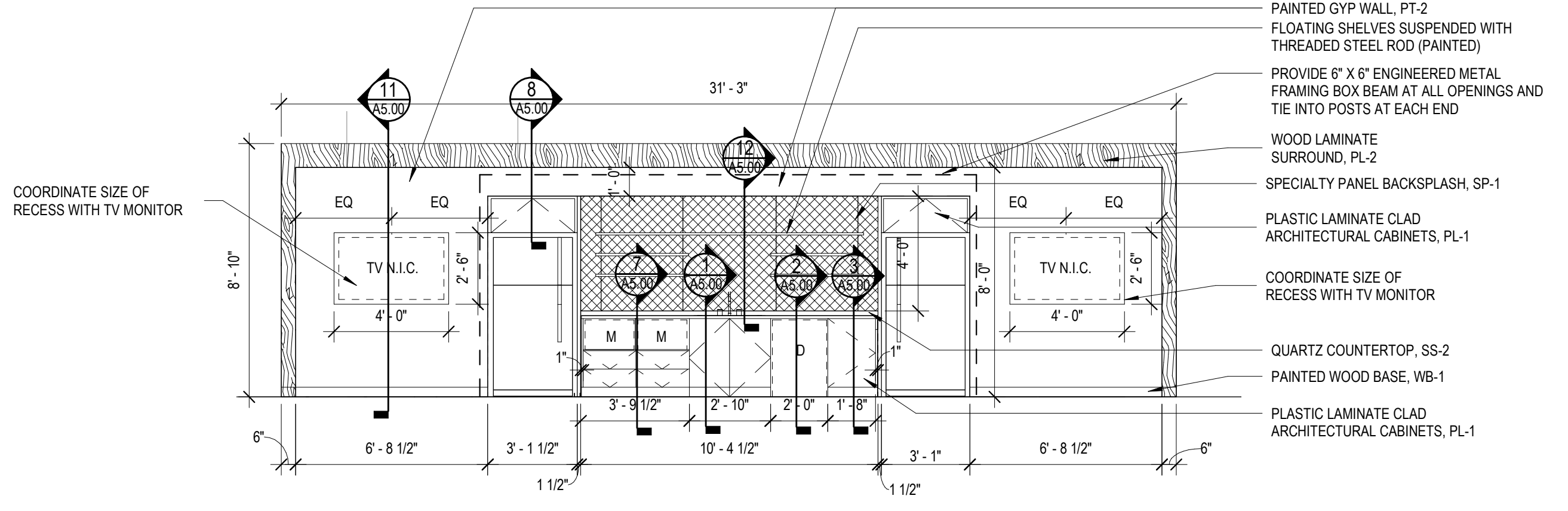
18 ELEVATION AT TELEPHONE ROOM GLASS WALL
SCALE: 1/4" = 1'-0"



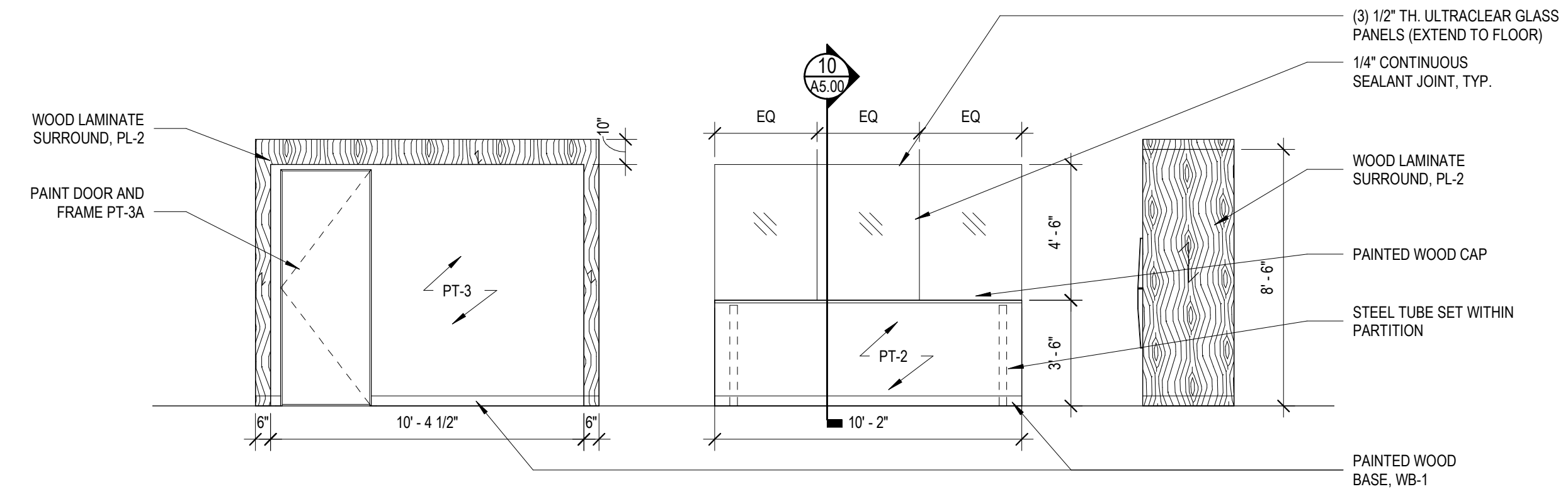
17 ELEVATION @ FRONT VESTIBULE
SCALE: 1/4" = 1'-0"



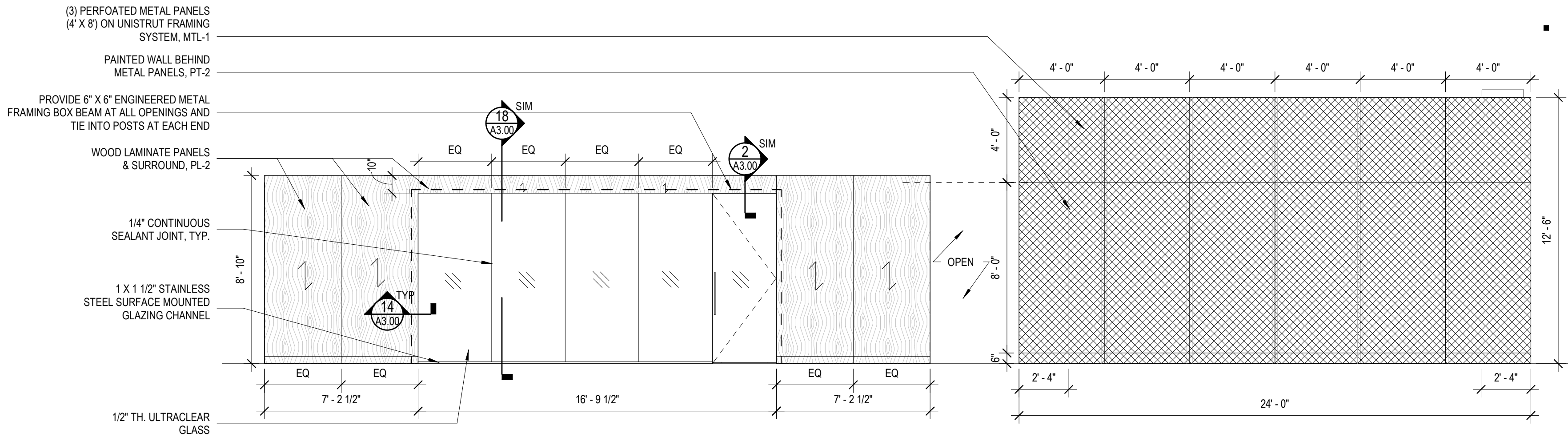
12 ELEVATION @ MAIL SLOTS/ PRINT STATION
SCALE: 1/4" = 1'-0"



11 ELEVATION @ BREAK ROOM MILLWORK
SCALE: 1/4" = 1'-0"



10 ELEVATION @ BREAK AREA SOUTH
SCALE: 1/4" = 1'-0"



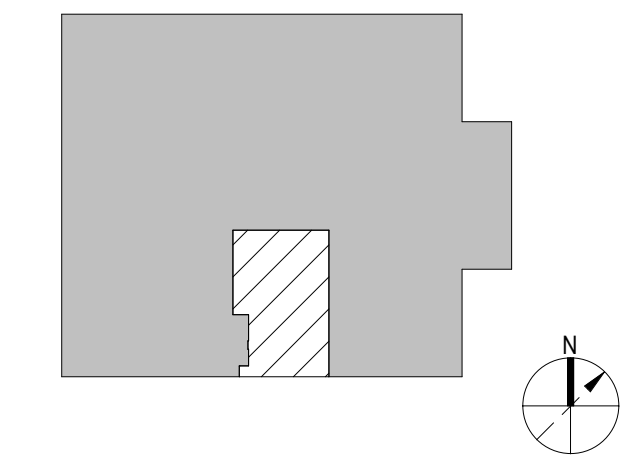
9 ELEVATION AT CONFERENCE ROOM 126
SCALE: 1/4" = 1'-0"

CT INNOVATIONS

CT INNOVATIONS - THE DISTRICT
470 James St,
Unit 8, New Haven, CT 06513

CONSULTANTS

KEY PLAN



PROJECT DATA

| | |
|-------------------------|--|
| PROJECT NUMBER | 19039 |
| CURRENT SUBMISSION DATE | 08.29.2019 |
| DRAWN | Author |
| CHECKED | Checker |
| SCALE | As indicated |
| FILE REFERENCE | C:\Users\keji\Documents\19039_CT INNOVATIONS - THE DISTRICT_CENTRAL_2019_KEJ.rvt |

HISTORY OF SUBMISSIONS

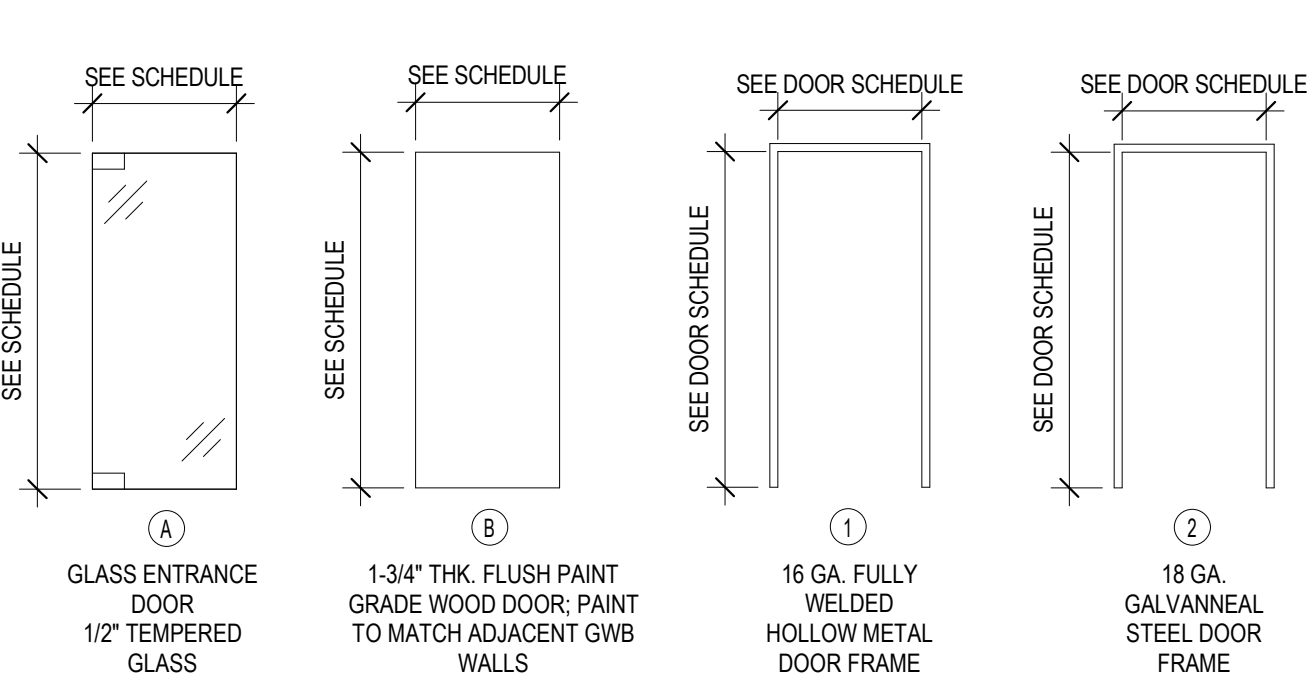
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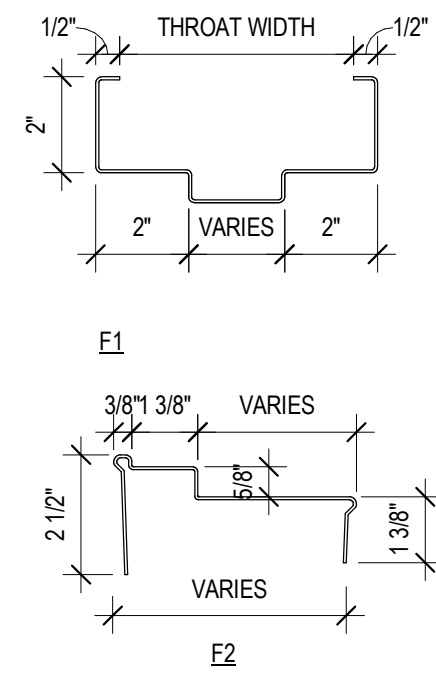
SHEET TITLE

INTERIOR ELEVATIONS

8/29/2019 4:25:10 PM Amenta | Emma Architects, P.C. All rights reserved. Copying, reproduction or distribution prohibited without express written permission. © Copyright



DOOR AND FRAME TYPES LEGEND
SCALE: 1/4" = 1'-0"



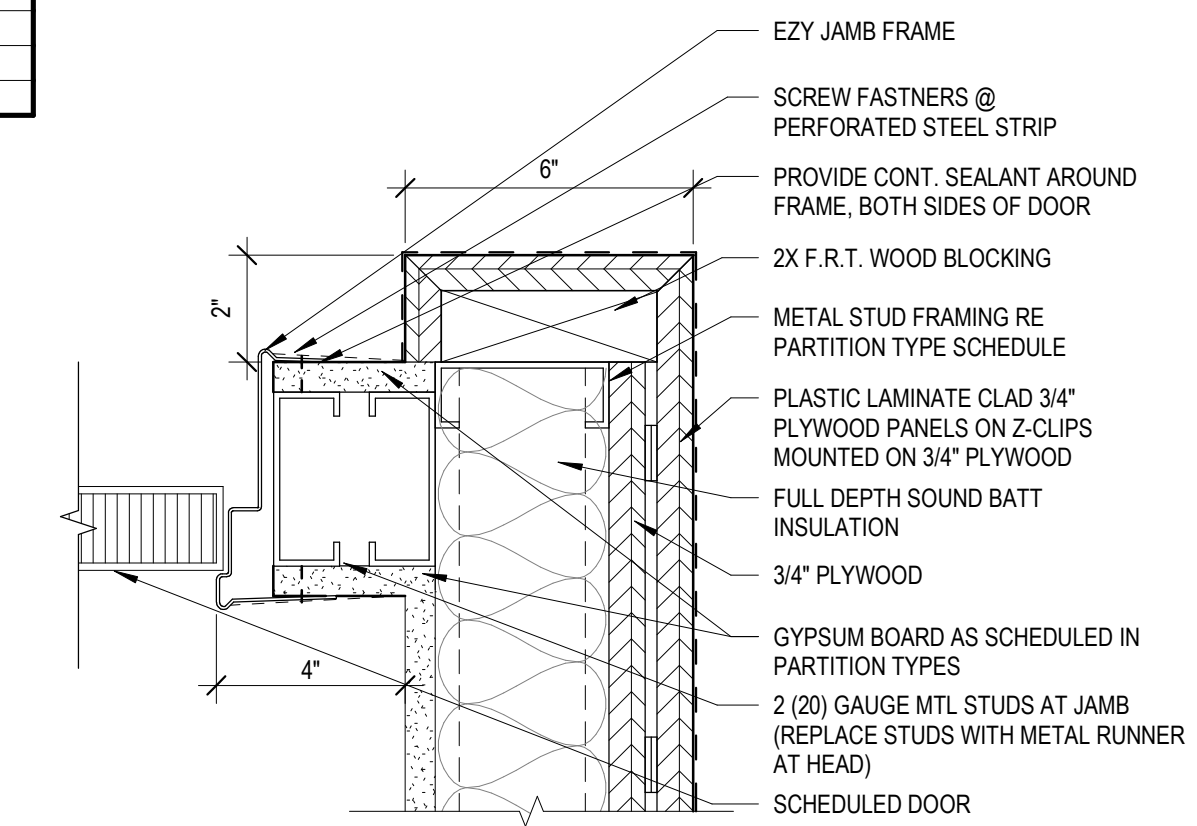
16 FRAME DETAILS
SCALE: 3" = 1'-0"

| DOOR # | DOOR | | | | FRAME | | | HEAD DETAIL | JAMB DETAIL | HARDWARE SET | REMARKS |
|--------|-----------|--------|------|----------|-------|----------|-----------|-------------|-------------|--------------|---------------------------------|
| | WIDTH | HEIGHT | TYPE | MATERIAL | TYPE | MATERIAL | ELEVATION | | | | |
| 101 | 3'-0" | 7'-10" | B | WD | F2 | HM | 2 | 13/A3.00 | 13/A3.00 | 2 | |
| 102 | 3'-0" | 7'-10" | B | WD | F2 | HM | 2 | 13/A3.00 | 13/A3.00 | 2 | |
| 103 | 3'-0" | 7'-10" | B | WD | F2 | HM | 2 | 13/A3.00 | 13/A3.00 | 2 | |
| 104 | 3'-0" | 7'-10" | B | WD | F2 | HM | 2 | 13/A3.00 | 13/A3.00 | 2 | |
| 105A | 3'-4 3/4" | 7'-6" | A | GLASS | - | - | - | 2/A3.00 | 17/A3.00 | 6 | |
| 105B | 3'-4 3/4" | 7'-6" | A | GLASS | - | - | - | 2/A3.00 | 17/A3.00 | 6 | |
| 106 | 3'-0" | 7'-10" | B | WD | F2 | HM | 2 | 13/A3.00 | 13/A3.00 | 2 | |
| 107 | 3'-0" | 7'-10" | B | WD | F2 | HM | 2 | 13/A3.00 | 13/A3.00 | 2 | |
| 108A | 6'-0" | 8'-0" | A | GLASS | - | - | - | 2/A3.00 | 17/A3.00 | 1 | LANDLORD TO PROVIDE CARD READER |
| 108B | 3'-0" | 8'-0" | A | GLASS | - | - | - | 2/A3.00 | 17/A3.00 | 8 | PROVIDE CARD READER |
| 108C | 3'-0" | 8'-0" | A | GLASS | - | - | - | 2/A3.00 | 17/A3.00 | 8 | PROVIDE CARD READER |
| 110 | 3'-0" | 9'-0" | A | GLASS | - | - | - | 2/A3.00 | 17/A3.00 | 6 | |
| 111 | 3'-0" | 9'-0" | A | GLASS | - | - | - | 2/A3.00 | 17/A3.00 | 6 | |
| 112 | 3'-0" | 9'-0" | A | GLASS | - | - | - | 2/A3.00 | 17/A3.00 | 6 | |
| 113 | 3'-0" | 9'-0" | A | GLASS | - | - | - | 2/A3.00 | 17/A3.00 | 6 | |
| 114 | 6'-0" | 9'-0" | A | GLASS | - | - | - | 5/A3.00 | 17/A3.00 | 5 | |
| 115 | 3'-0" | 7'-10" | B | WD | F2 | HM | 2 | 13/A3.00 | 13/A3.00 | 2 | |
| 116 | 3'-0" | 7'-10" | B | WD | F2 | HM | 2 | 13/A3.00 | 13/A3.00 | 2 | |
| 117A | 3'-0" | 7'-6" | A | GLASS | - | - | - | 2/A3.00 | 17/A3.00 | 6 | |
| 117B | 3'-0" | 7'-6" | A | GLASS | - | - | - | 2/A3.00 | 17/A3.00 | 6 | |
| 118 | 3'-0" | 7'-10" | B | WD | F2 | HM | 2 | 13/A3.00 | 13/A3.00 | 2 | |
| 119 | 3'-0" | 7'-10" | B | WD | F2 | HM | 2 | 13/A3.00 | 13/A3.00 | 2 | |
| 120 | 3'-0" | 7'-10" | B | WD | F2 | HM | 2 | 13/A3.00 | 13/A3.00 | 2 | |
| 121 | 3'-0" | 7'-10" | B | WD | F2 | HM | 2 | 13/A3.00 | 13/A3.00 | 7 | |
| 122 | 3'-0" | 7'-10" | B | WD | F1 | HM | 1 | 1/A3.00 | 1/A3.00 | 4 | PROVIDE CARD READER |
| 123 | 3'-0" | 7'-10" | B | WD | F2 | HM | 2 | 13/A3.00 | 13/A3.00 | 2 | |
| 124 | 3'-0" | 7'-10" | B | WD | F2 | HM | 2 | 13/A3.00 | 13/A3.00 | 2 | |
| 125 | 3'-0" | 7'-10" | B | WD | F2 | HM | 2 | 3/A3.00 | 3/A3.00 | 3 | |
| 126A | 3'-0" | 8'-0" | A | GLASS | - | - | - | 2/A3.00 | 17/A3.00 | 6 | |
| 126B | 3'-0" | 8'-0" | A | GLASS | - | - | - | 2/A3.00 | 17/A3.00 | 6 | |
| 127 | 3'-0" | 8'-0" | A | GLASS | - | - | - | 2/A3.00 | 17/A3.00 | 6 | |

NOTES:

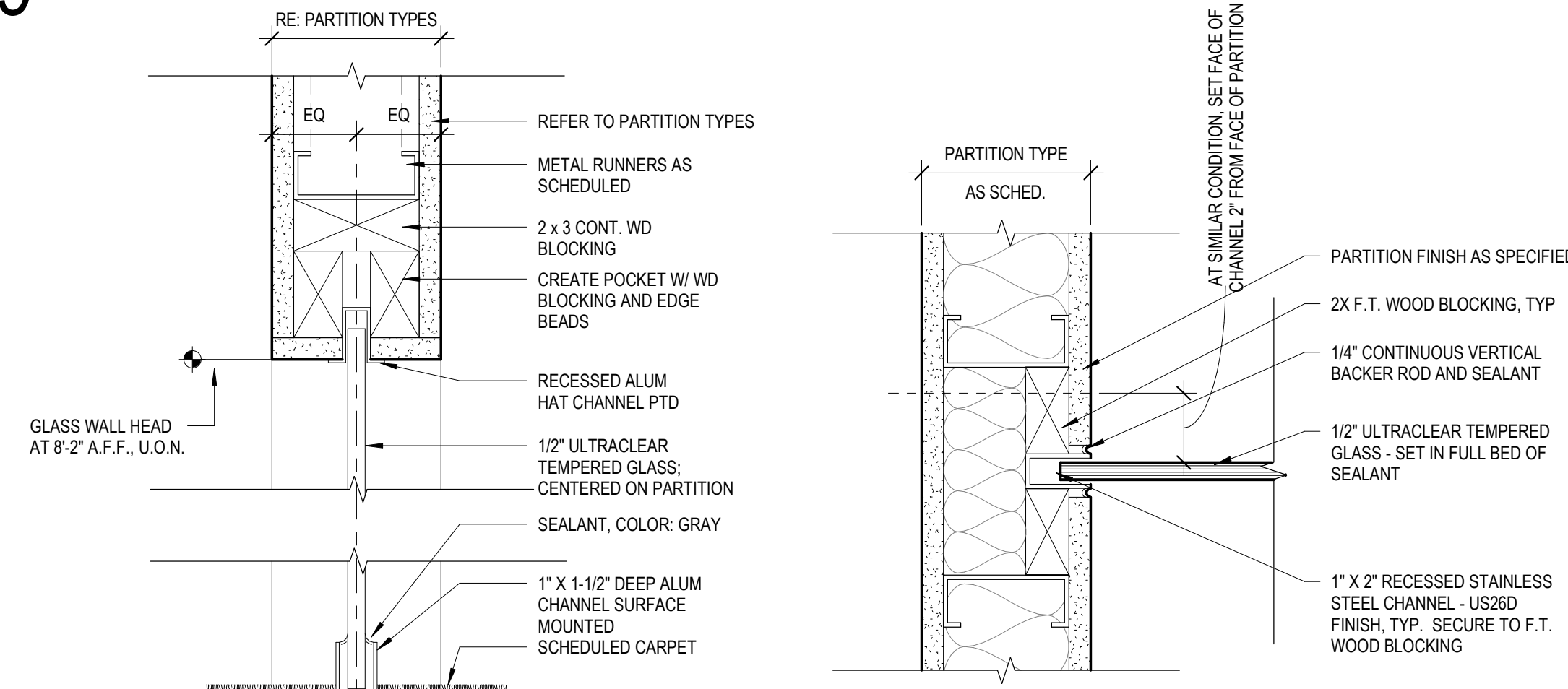
- COORDINATE ALL SECURITY EQUIPMENT WITH VENDOR IN DOORS, AND SCHEDULE REMARKS. PROVIDE POWER AS REQUIRED.
- PAINT ALL NEW AND EXISTING FRAMES.
- AT ALL INTERIOR DOORS SCHEDULED TO REMAIN, REPLACE ALL EXISTING DOOR HARDWARE WITH ADA COMPLIANT LEVEL HARDWARE (IF NOT EXISTING LEVER).
- ALL HARDWARE MUST CONFORM TO BUILDING STANDARD MANUFACTURERS AND FINISHES. PROVIDE BUILDING STANDARD MANUFACTURER, KEYS TO MASTER.

- ENTRY GLASS DOORS:**
RTS88 X SINGLE ACTING X INTEGRAL STOP
PROVIDE SINGLE POINT 90 DEGREE HOLD OPEN
PULLS: 2 G561-01-001 (5'-0")
MAGLOCK: M32BD SERIES (BOND SENSOR AND POSITION SWITCH)
FLOOR STOP: 441
CARD READER: COORDINATE WITH SECURITY VENDOR
SET PATCH FITTINGS: UNIVERSAL X TOP AND BOTTOM - PIVOT
- OFFICE DOORS:**
LOCKSET: SCHLAGE ND105 ATH 626
HINGES: 2 PAIRS IVES 3PB1 630
SILENCERS: BUILDING STANDARD
DOOR STOP: ROCKWOOD DOME STOP
- WELLNESS DOORS:**
LOCKSET: SCHLAGE ND40S ATH 626
CLOSER: SARGENT 1431-P
HINGES: 2 PAIRS IVES 3PB1 630 (PER DOOR)
SILENCERS: BUILDING STANDARD
DOOR STOP: ROCKWOOD DOME STOP
- SERVER ROOM DOORS:**
LOCKSET: SCHLAGE ND80PD ATH 626
ELECTRIC STRIKE: HES SERIES 1006
CLOSER: SARGENT 1431-P
CARD READER: CARD READER COORD. W/ SECURITY VENDOR
HINGES: 2 PAIRS IVES 3PB1 630
SILENCERS: BUILDING STANDARD
DOOR STOP: ROCKWOOD DOME STOP
- CONFERENCE ROOM:**
CONCEALED CLOSER: DORMA RT588 X SINGLE ACTING X INTEGRAL STOP EN
PULLS: ELMES G561-01-001 (5'-0") 55
DOOR STOP: ROCKWOOD 441 625
PATCH FITTINGS: DORMA UNIVERSAL X TOP AND BOTTOM - OFFSET PIVOT 701
- GLASS DOORS:**
CONCEALED CLOSER: DORMA RT588 X SINGLE ACTING X INTEGRAL STOP EN
PULLS: ELMES G561-01-001 (5'-0") 55
FLOOR STOP: ROCKWOOD 441 625
PATCH FITTINGS: DORMA UNIVERSAL X TOP AND BOTTOM - OFFSET PIVOT 701
- HR OFFICE DOOR:**
LOCKSET: SCHLAGE ND50PD ATH 626
HINGES: 2 PAIRS IVES 3PB1 630
SILENCERS: BUILDING STANDARD
DOOR STOP: ROCKWOOD DOME STOP
- WAITING ROOM DOORS:**
CONCEALED CLOSER: DORMA RT588 X SINGLE ACTING X INTEGRAL STOP EN
PROVIDE SINGLE POINT 90 DEG.
PULLS: 2 PAIRS ELMES G561-01-001 (5'-0") 55
MAGLOCK: SECURITRON M32BD SERIES (BOND SENSOR & POSITION SWITCH) 629
FLOOR STOP: ROCKWOOD 441 625
CARD READER: COORDINATE WITH SECURITY VENDOR
PATCH FITTINGS: DORMA UNIVERSAL X TOP AND BOTTOM - OFFSET PIVOT 701

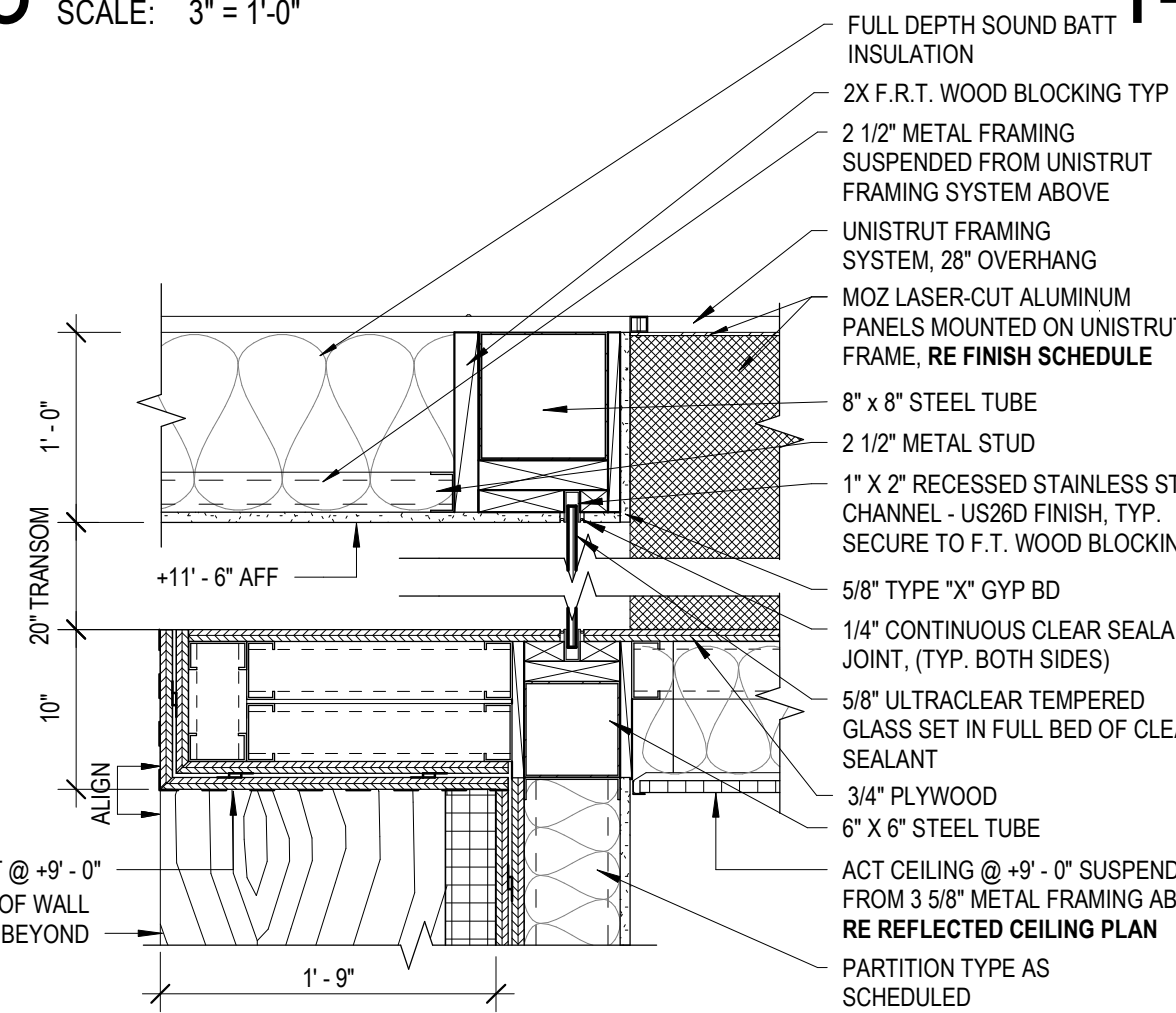


3 DOOR DETAIL
SCALE: 3" = 1'-0"

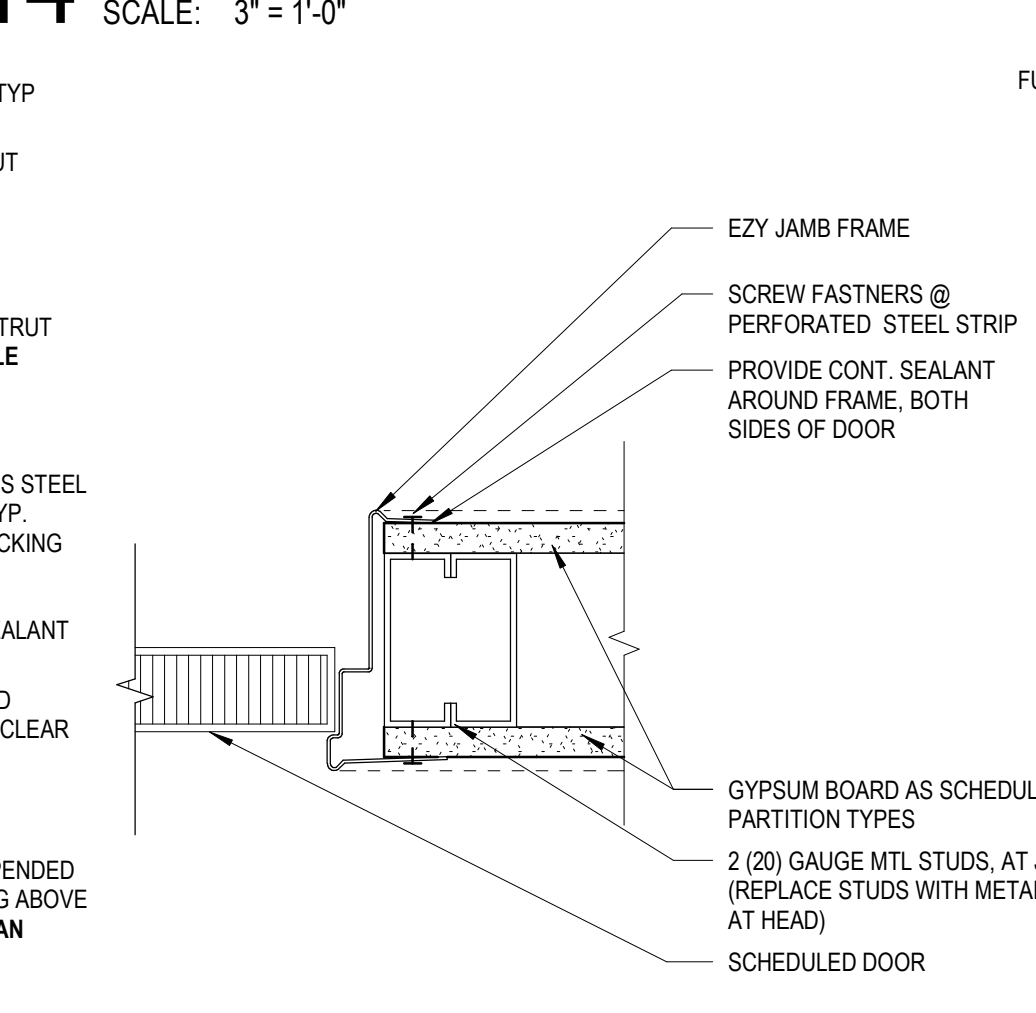
19 DOOR HARDWARE NOTES



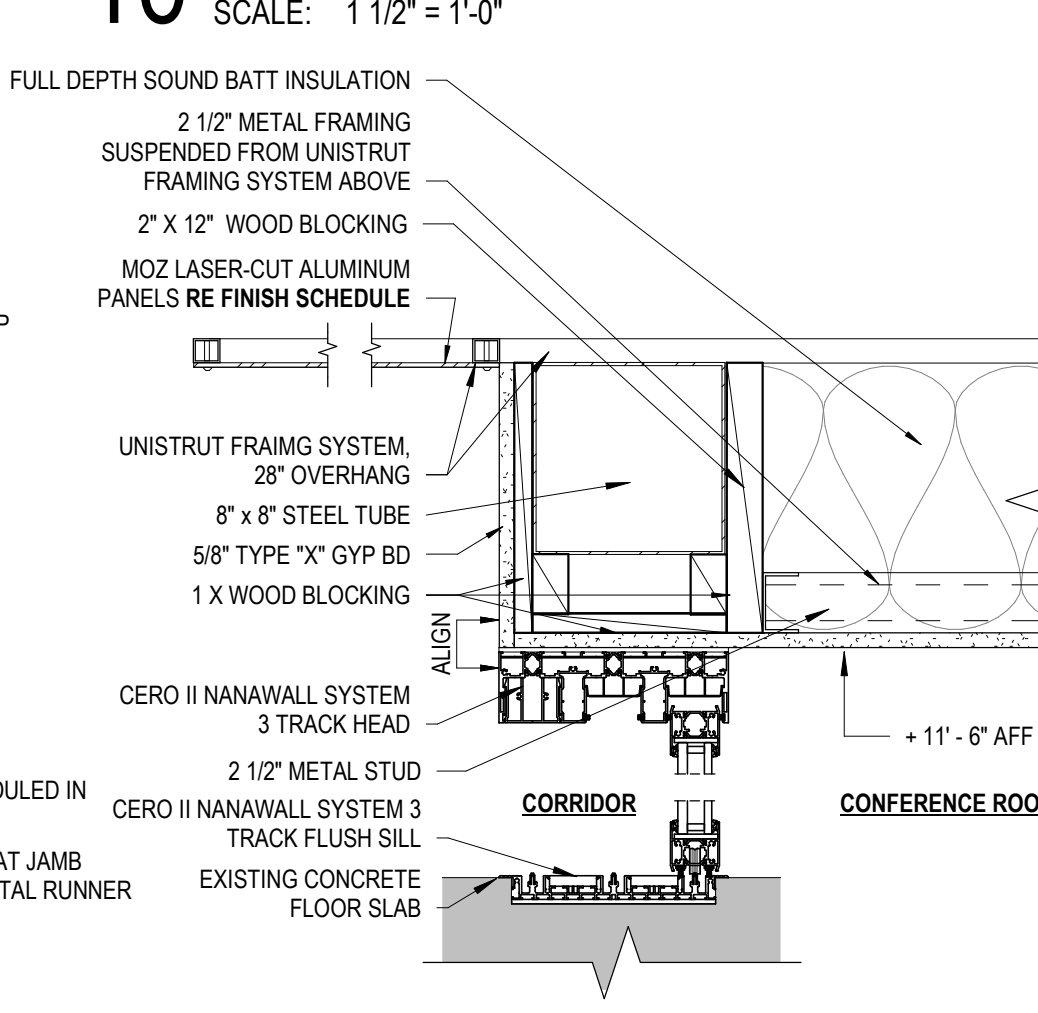
18 GLASS WALL HEAD & SILL DETAIL
SCALE: 3" = 1'-0"



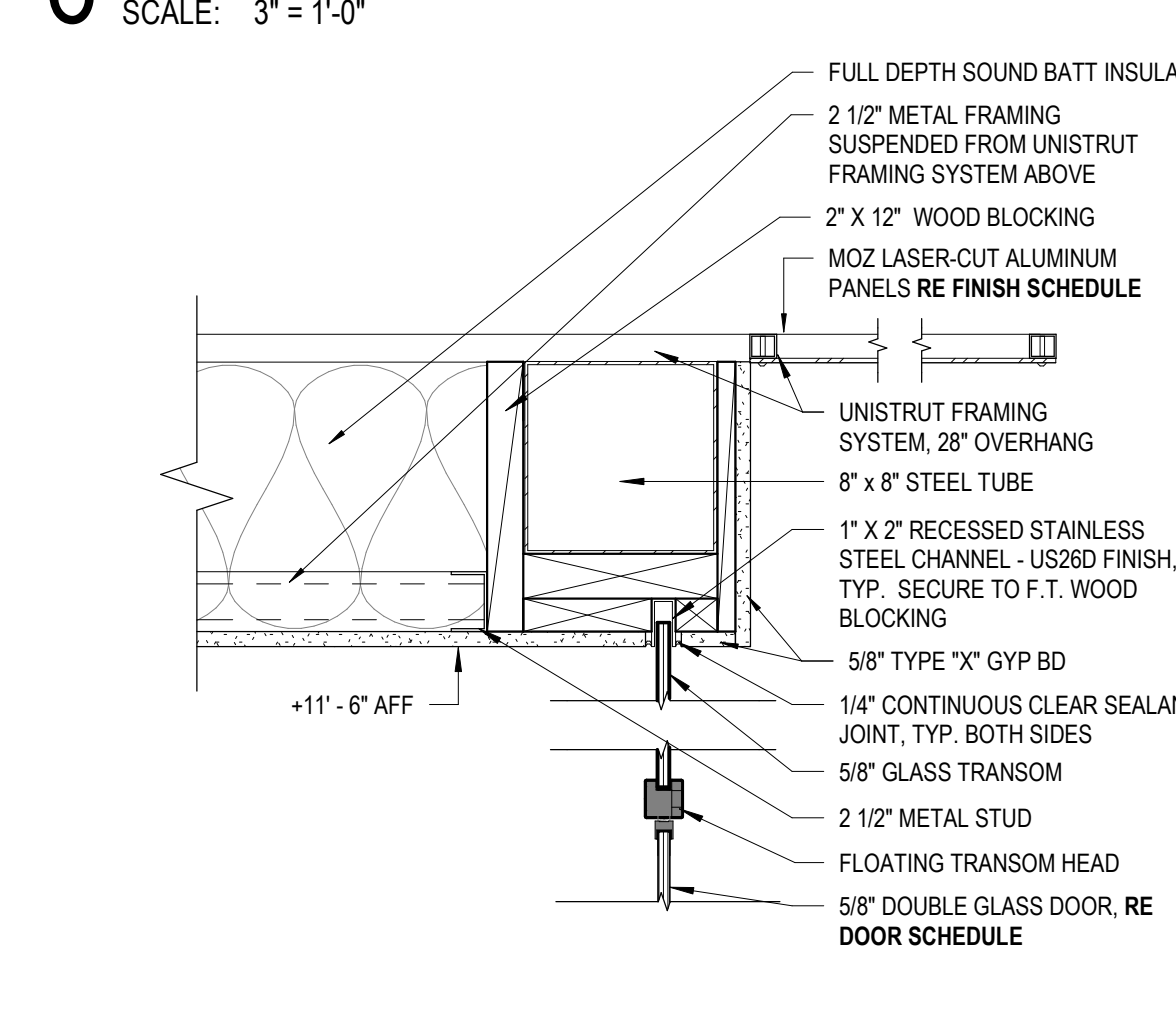
14 GLASS JAMB DETAIL
SCALE: 3" = 1'-0"



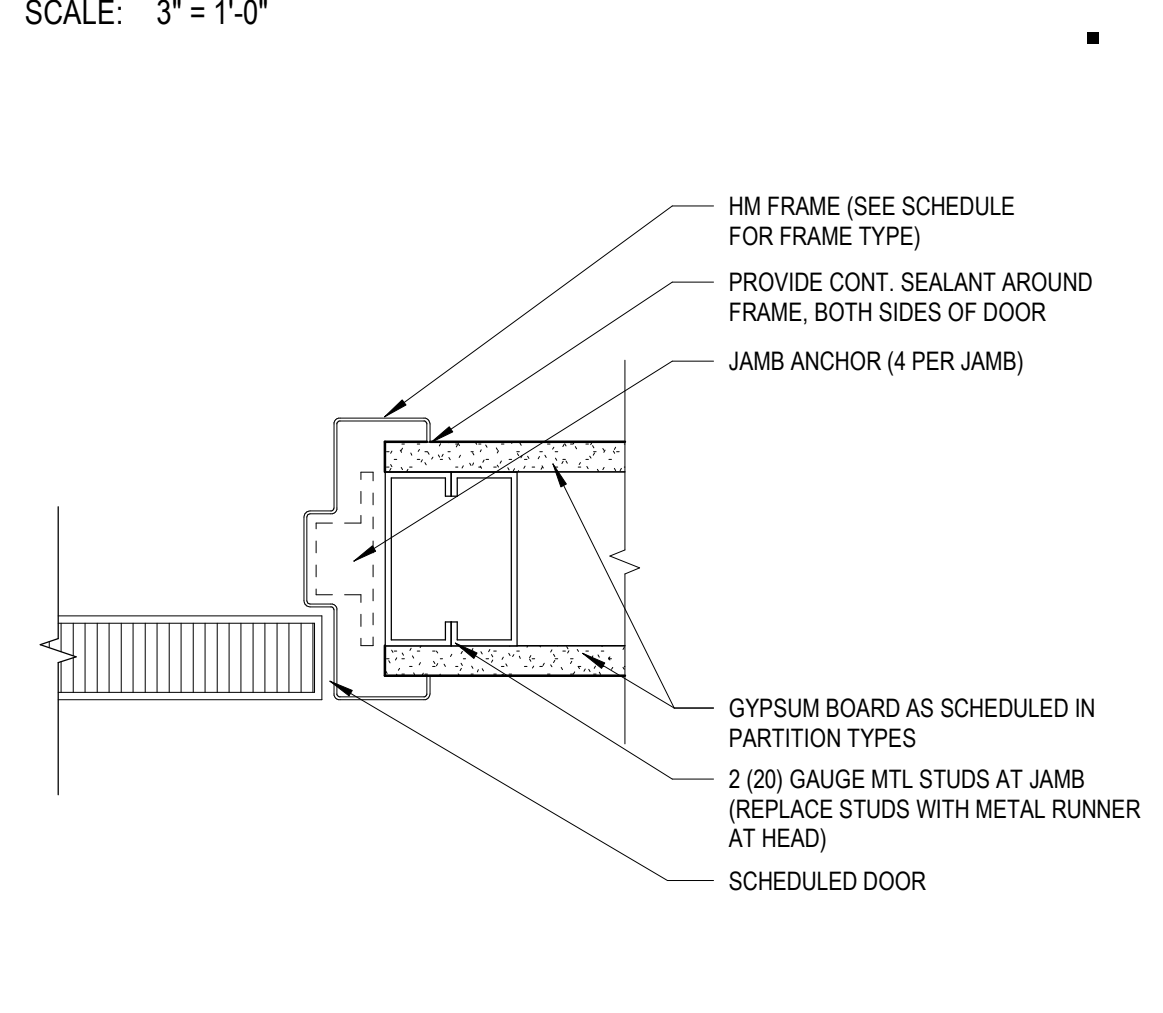
10 NANAWALL JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



6 GWB OPN'G @ GLASS DOORS (HEAD SIM.)
SCALE: 3" = 1'-0"



2 GLASS DOOR HEAD DETAIL
SCALE: 3" = 1'-0"



17 GLASS HEAD DETAIL @ TRANSOM
SCALE: 1" = 1'-0"



13 JAMB @ TYP OFFICE DOOR (HEAD SIM.)
SCALE: 3" = 1'-0"



9 NANAWALL HEAD AND SILL DETAIL
SCALE: 1 1/2" = 1'-0"



5 GLASS HEAD @ CONFERENCE ROOM DOOR
SCALE: 1 1/2" = 1'-0"



1 HM JAMB DETAIL (HEAD SIM.)
SCALE: 3" = 1'-0"

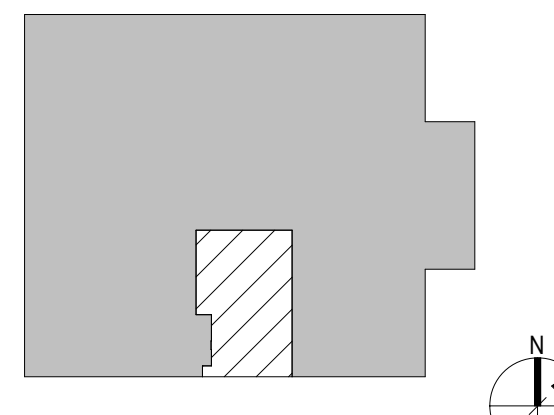


CT INNOVATIONS

CT INNOVATIONS - THE DISTRICT
470 James St,
Unit 8, New Haven, CT 06513

CONSULTANTS

KEY PLAN



PROJECT DATA

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|-------------------------|---|
| PROJECT NUMBER | 19039 |
| CURRENT SUBMISSION DATE | 08.29.2019 |
| DRAWN | NMM |
| CHECKED | DLS |
| SCALE | As indicated |
| FILE REFERENCE | C:\Users\kej\Documents\19039_CT INNOVATIONS - THE DISTRICT_CENTRAL_2019_KEJ.rvt |

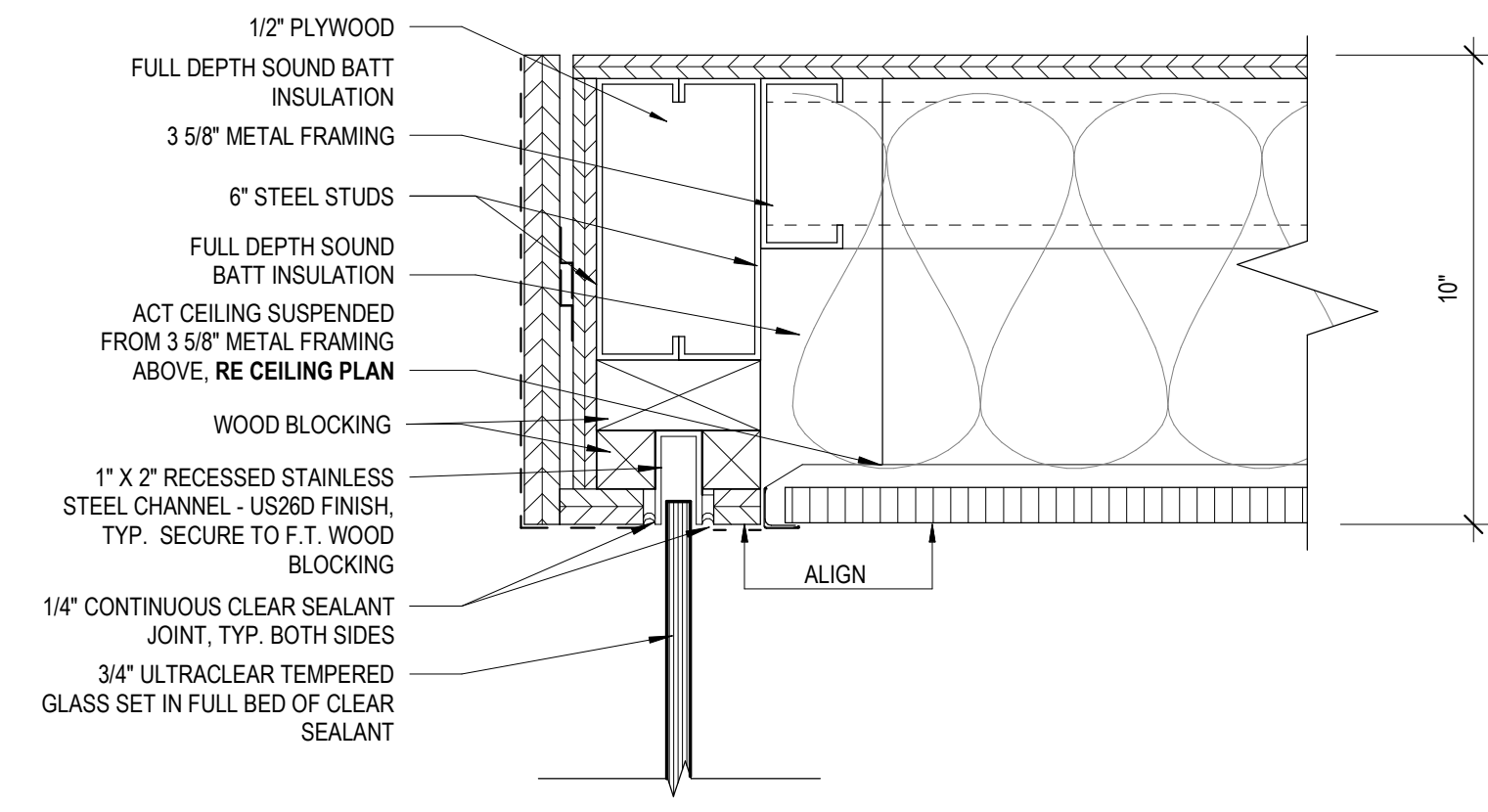
HISTORY OF SUBMISSIONS

| No. | Date | Description |
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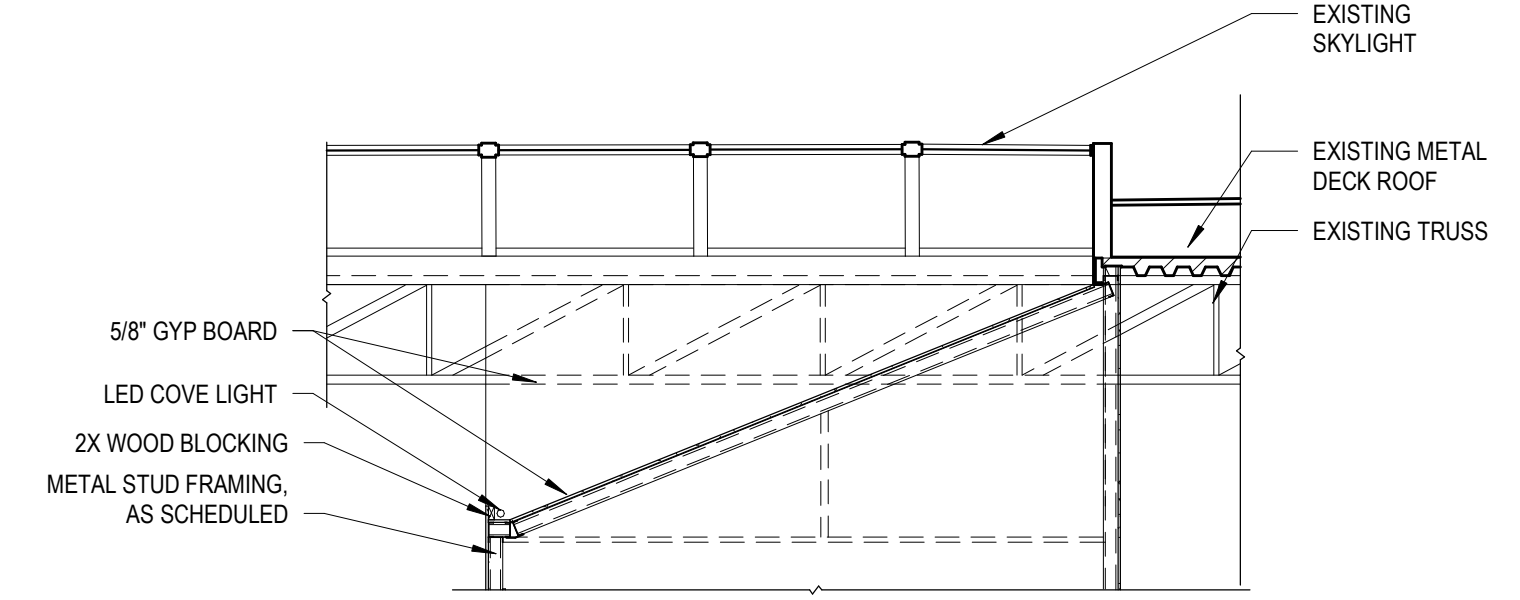
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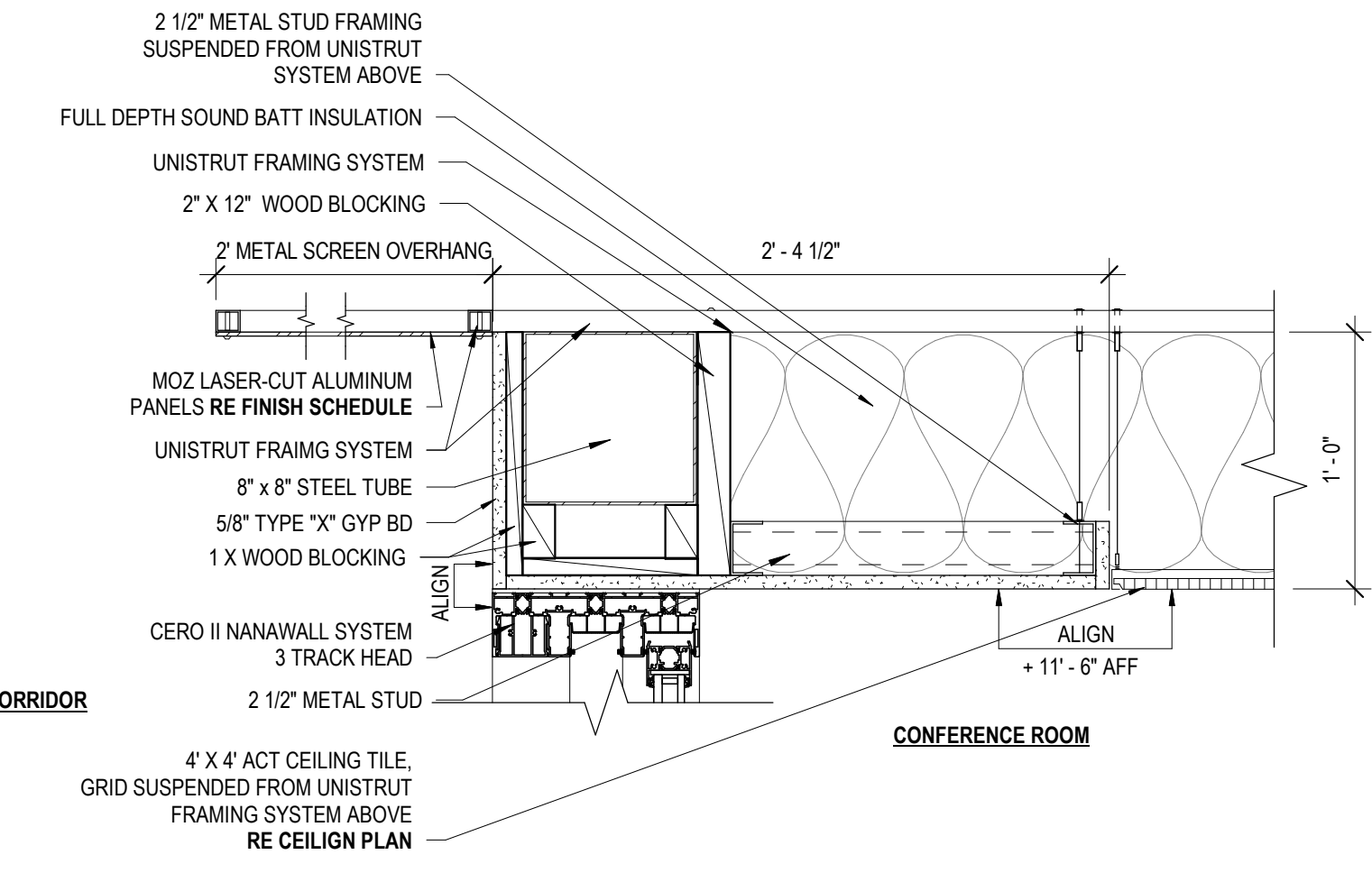
DOOR AND WINDOW SCHEDULES, DOOR DETAILS



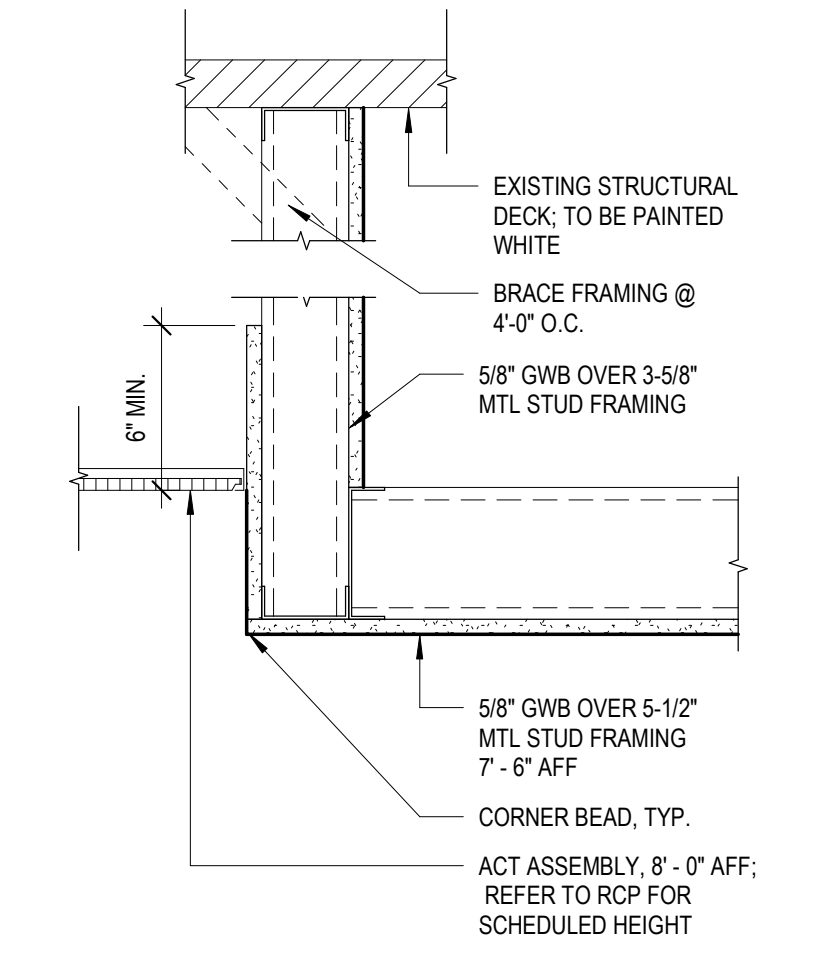
12 SECTION AT BOX CEILING
SCALE: 3\"/>



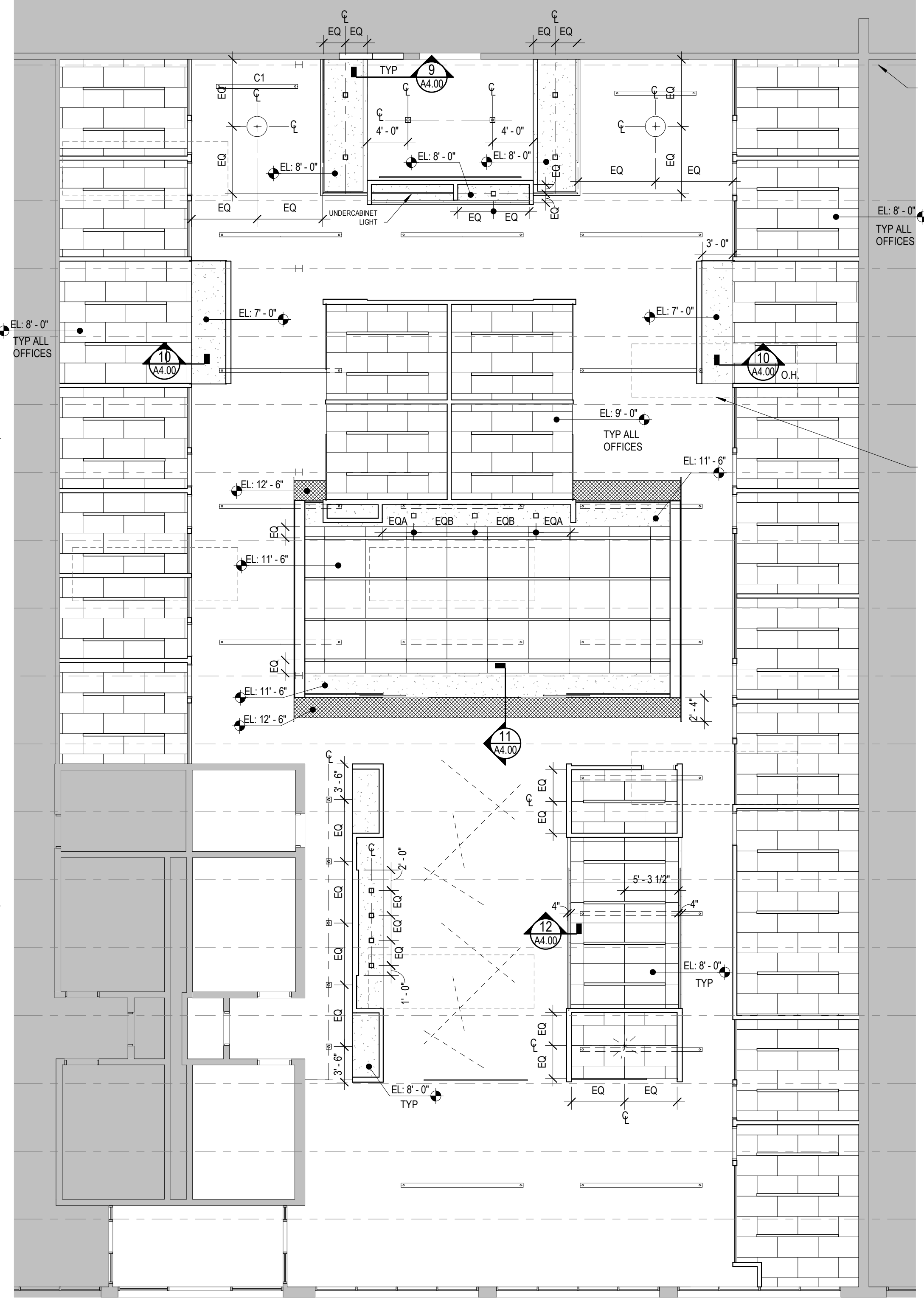
4 SKYLIGHT COVE DETAIL
SCALE: 1/4\"/>



11 GWB CEILING TO ACT CEILING
SCALE: 1 1/2\"/>



10 GWB HEADER DETAIL
SCALE: 1 1/2\"/>





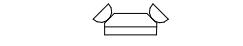




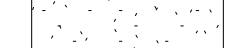



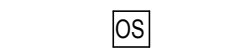
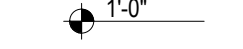
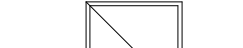
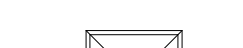




5 1ST FLOOR REFLECTED CEILING PLAN
SCALE: 1/8\"/>

| GENERAL REFLECTED CEILING PLAN NOTES | |
|--------------------------------------|---|
| 1 | SCHEDULED CEILING HEIGHT SHALL BE MAINTAINED. EXISTING HVAC AND PLUMBING SYSTEMS SHALL BE MODIFIED AS REQUIRED TO MEET CEILING HEIGHTS. |
| 2 | ALL NEW OR RELOCATED SPRINKLER HEADS, RECESSED CAN LIGHT FIXTURES, ETC. SHOWN TO BE RELOCATED WITHIN CENTER OF 2X2 OR 2X4 CEILING TILE UNLESS OTHERWISE NOTED. |
| 3 | ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL WIRING ABOVE THE CEILING WHICH IS ABANDONED AS PART OF THIS OR PAST WORK. |
| 4 | ALL CABLES MUST BE SUSPENDED OFF THE LAY-IN CEILING. |
| 5 | CONTRACTOR TO NOTIFY ARCHITECT IF ANY DISCREPANCIES EXIST BETWEEN ARCHITECTURAL RCP AND ELECTRICAL WIRING PLAN. |
| 6 | WHERE NEW OR EXISTING CEILING TILES HAVE A TEGULAR EDGE, KERF ALL CUT CEILING TILES OR TILES THAT PASS OVER PARTITIONS TO MATCH EXISTING EDGE DESIGN. |
| 7 | DESIGN SUSPENDED CEILING FRAMING SYSTEMS TO RESIST A LATERAL 1/4 OF THE WEIGHT OF THE CEILING ASSEMBLY AND ANY FORCE OF 20 LOADS TRIBUTARY TO THE SYSTEM. USE A MINIMUM CEILING WEIGHT OF 5 POUNDS PER SQUARE FOOT TO DETERMINE THE LATERAL FORCE. |
| 8 | WHERE CEILING LOADS DO NOT EXCEED 5 POUNDS PER SQUARE FOOT AND WHERE PARTITIONS ARE NOT CONNECTED TO THE CEILING SYSTEM, THE FOLLOWING BRACING METHODS MAY BE EMPLOYED: A. PROVIDE LATERAL SUPPORT BY FOUR WIRES OF MINIMUM NO. 12 GAUGE SPAYED IN FOUR DIRECTIONS 90 DEGREES APART, AND CONNECTED TO THE MAIN RUNNER WITHIN 2\"/> |
| 9 | CONTRACTOR TO RELAMP ALL EXISTING LIGHTS, WHETHER TO REMAIN OR FOR RELOCATION. |
| 10 | CONTRACTOR TO ESTIMATE AN ALLOWANCE OF 10% OF ALL EXISTING LIGHT FIXTURES WILL REQUIRE BALLAST REPLACEMENT, WHETHER TO REMAIN OR FOR RELOCATION. |
| 11 | RESET ALL EXISTING FIXTURES TO REMAIN WITHIN CEILING SYSTEMS SO THAT THEY ARE LEVEL, IF APPLICABLE. |
| 12 | CEILING HEIGHT SHALL BE 8'-5\"/> |
| 13 | ALL CEILINGS SHALL BE CENTERED ON ROOMS, U.O.N. |
| 14 | ALL ACOUSTICAL CEILINGS SHALL BE TYPE ACT-1, PER THE FINISH SCHEDULE. |
| 15 | EXISTING CEILING STRUCTURE SCHEDULED TO BE EXPOSED SHALL BE PAINTED WHITE THROUGHOUT. |
| 16 | A SHOP DRAWING SHALL BE PROVIDED FOR THE LIGHTING FIXTURE LAYOUTS. DIMENSIONS PROVIDED ON THE PLANS REPRESENT THE DESIGN INTENT AND WILL BE REVIEWED AFTER THE CONTRACTOR HAS VERIFIED THE FIELD CONDITIONS. |
| 17 | EXISTING BRICK WALLS SCHEDULED TO BE EXPOSED SHALL BE COATED WITH A WHITEWASH. ARCHITECT TO APPROVE LEVEL OF WHITEWASH INTENSITY. |

13 GENERAL REFLECTED CEILING PLAN NOTES
SCALE: 1/4\"/>

9 GWB HEADER DETAIL
SCALE: 3\"/>

-  INDIRECT PENDANT MOUNTED LED FIXTURE
-  RECESSED LED DOWNLIGHT
-  PENDANT MOUNTED FIXTURES, REFER TO LIGHTING FIXTURE SCHEDULE FOR TYPE
-  UNDER CABINET LED LIGHT FIXTURE
-  EMERGENCY LIGHT FIXTURE (BATTERY BACKUP CONCEALED IN WALL)
-  LIGHT SWITCH - CEILING MOUNTED OCCUPANCY SENSOR, SEE ELECTRICAL DWGS
-  LIGHT SWITCH - THREE WAY - CEILING MOUNTED OCCUPANCY SENSOR, SEE ELECTRICAL DWGS
-  LED EXIT SIGN, CEILING MOUNTED
-  LED EXIT SIGN, WALL MOUNTED
-  FINISHED GWB CEILING
-  4' X 4' ACOUSTICAL CEILING SYSTEM
-  2X4 ACOUSTICAL CEILING SYSTEM
-  CEILING MOUNTED PROJECTOR
-  OCCUPANCY SENSOR
-  CEILING HEIGHT TAG
-  HVAC RETURN
-  HVAC SUPPLY
-  HORN / STROBE TIED TO BUILDING FIRE ALARM
-  STROBE TIED TO BUILDING FIRE ALARM

REFLECTED CEILING PLAN LEGEND
SCALE: 1/4\"/>

CT INNOVATIONS

CT INNOVATIONS - THE DISTRICT
470 James St,
Unit 8, New Haven, CT 06513

CONSULTANTS

KEY PLAN

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HISTORY OF SUBMISSIONS

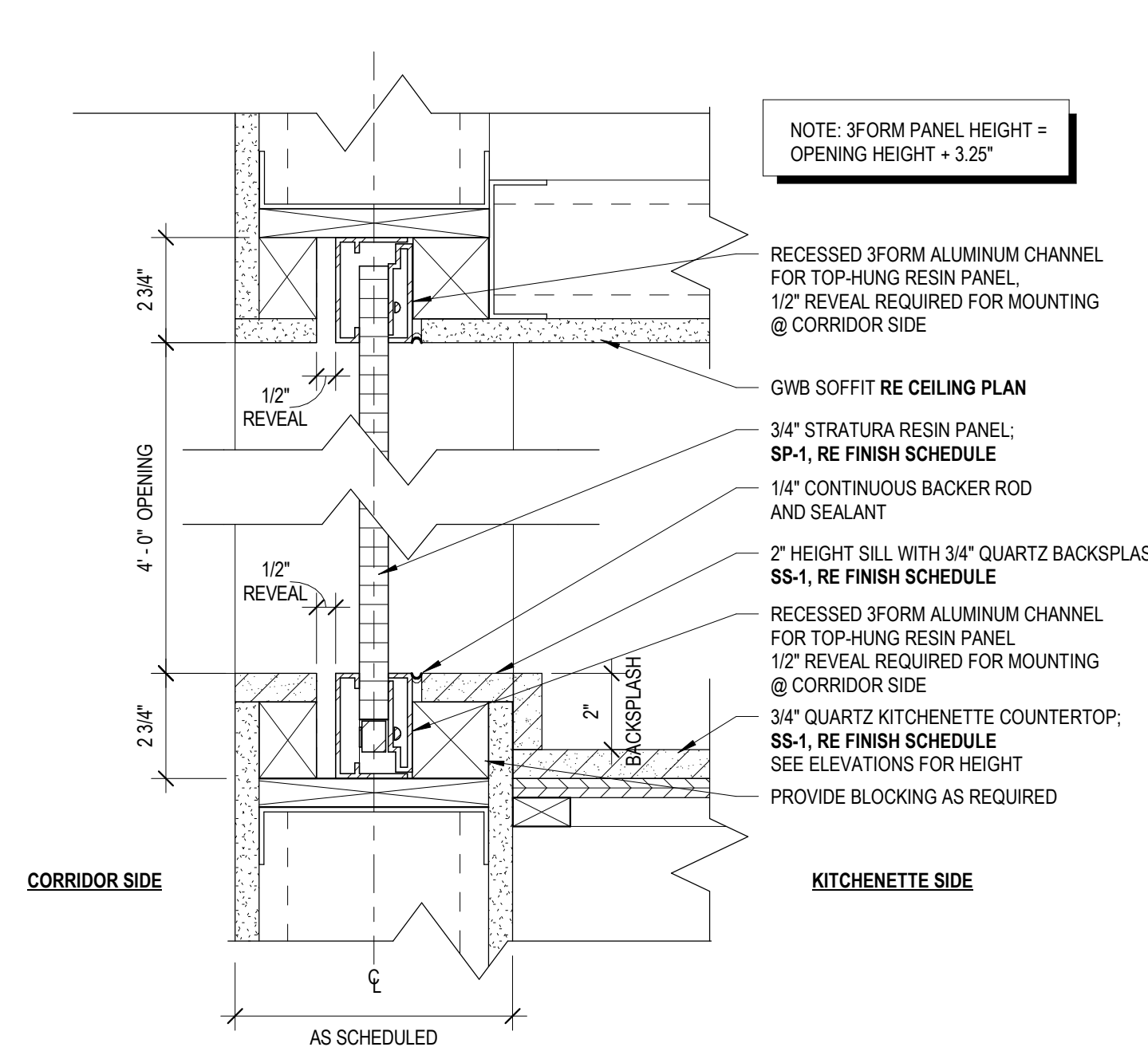
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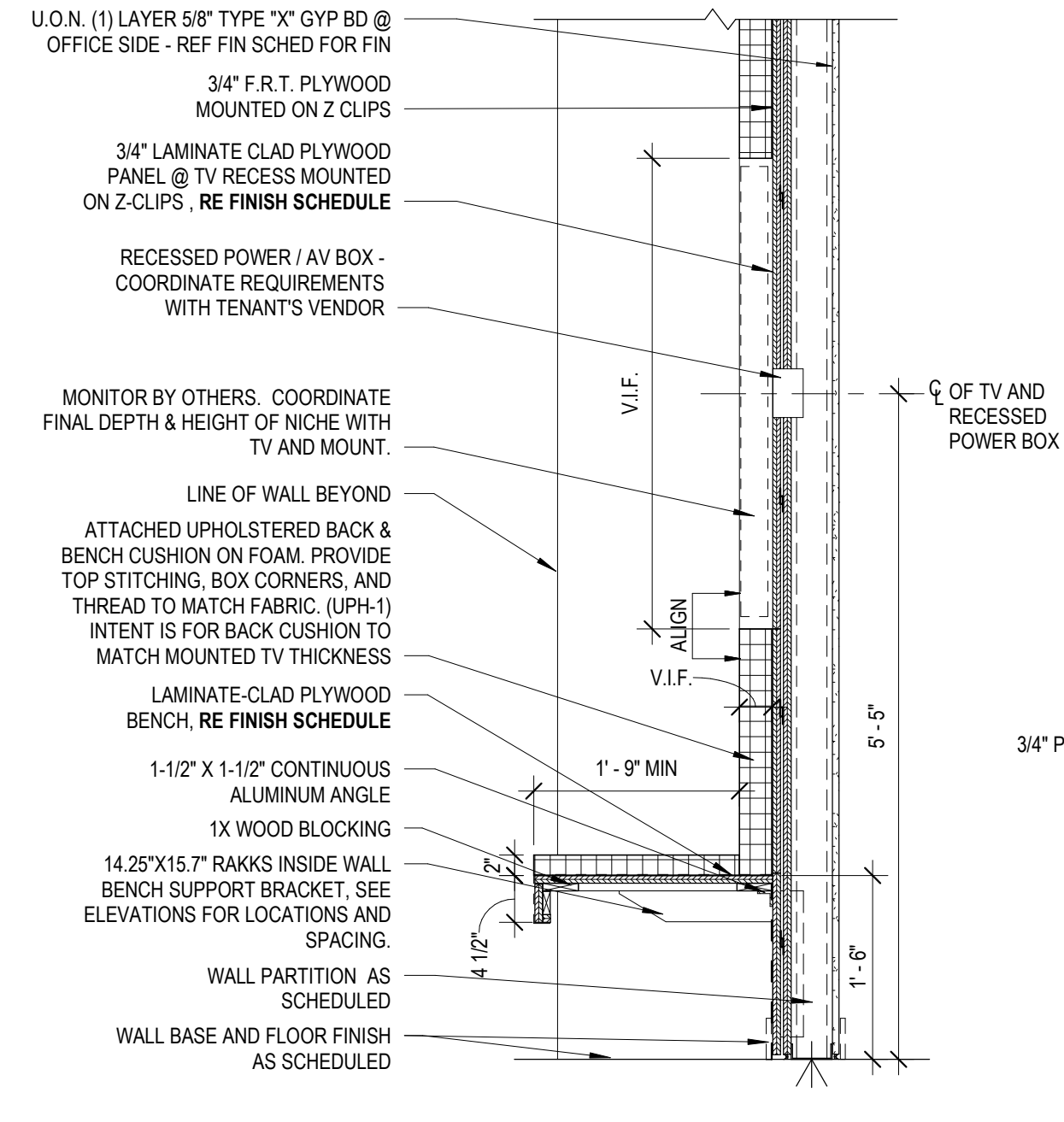
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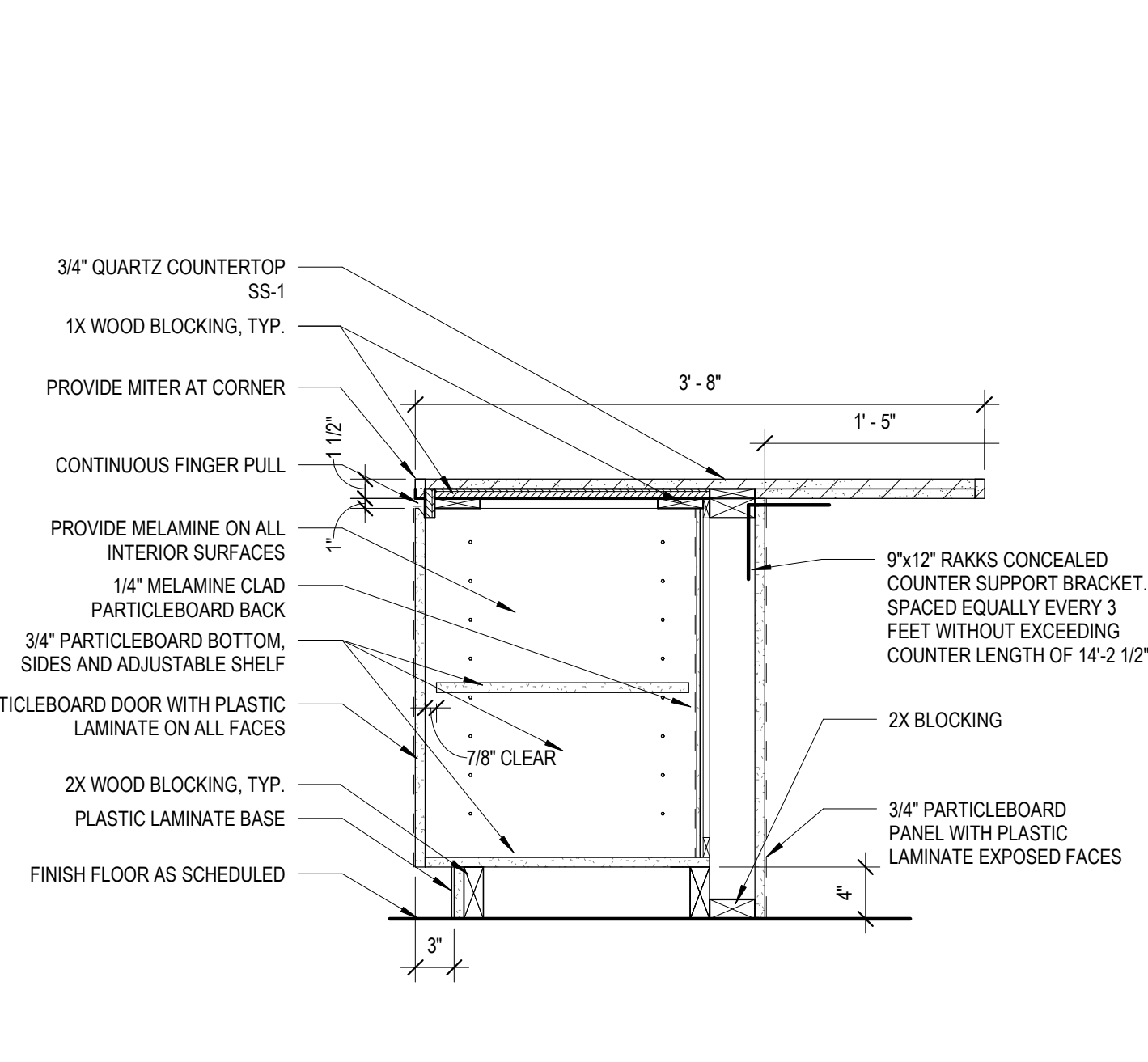
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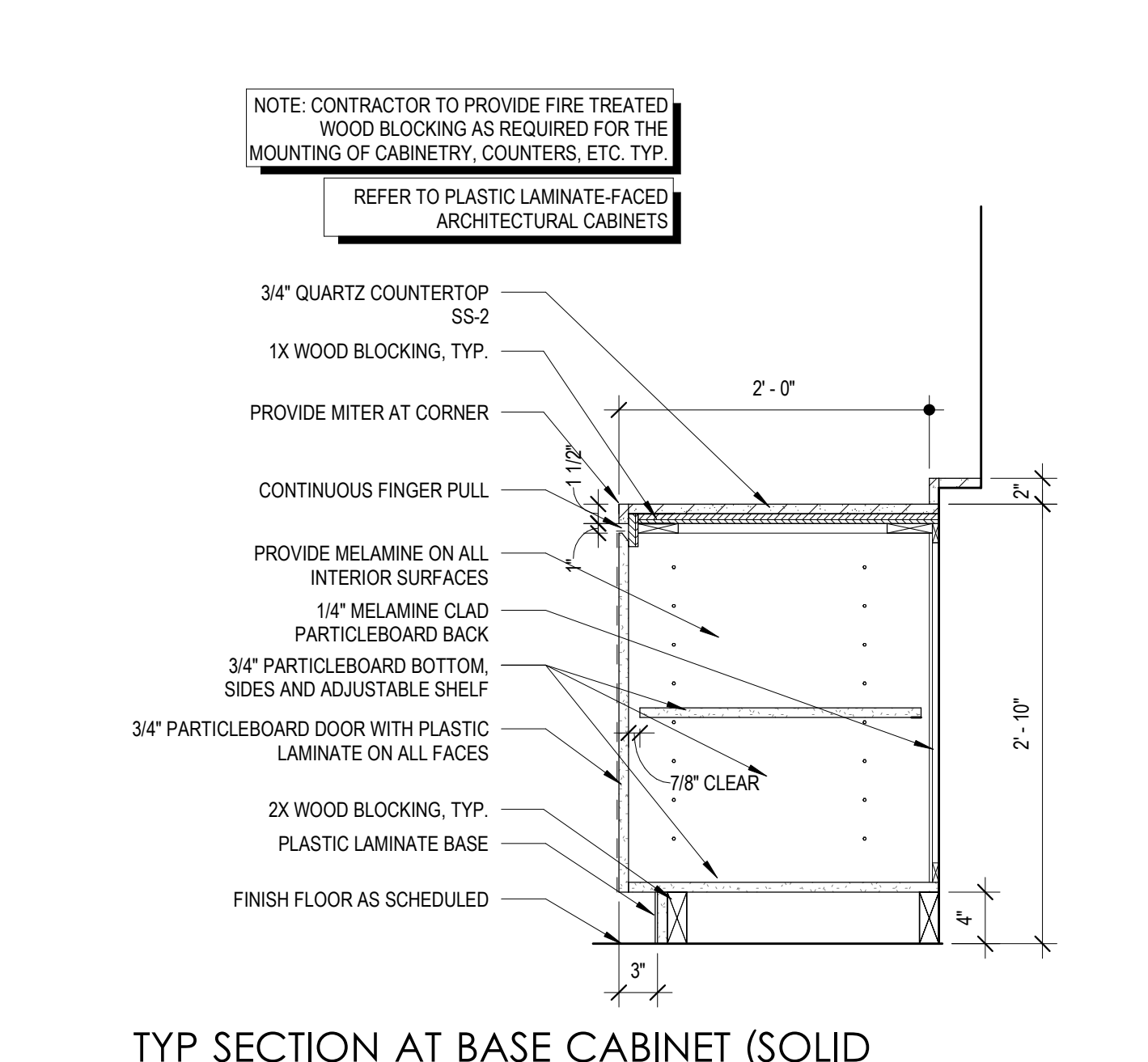
12 3 FORM BACKSPLASH
SCALE: 3/4" = 1'-0"



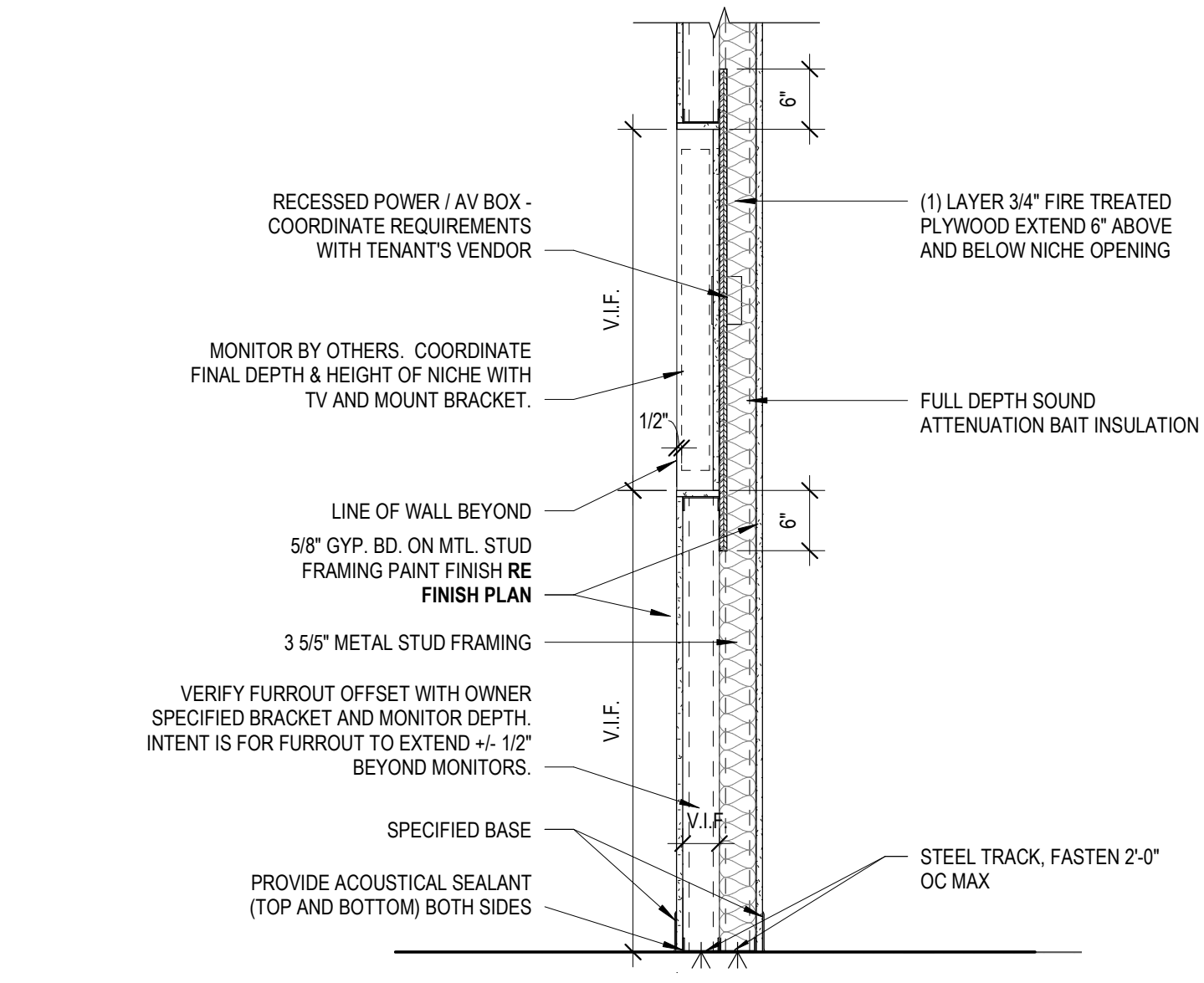
9 SECTION @ BENCH WALL
SCALE: 3/4" = 1'-0"



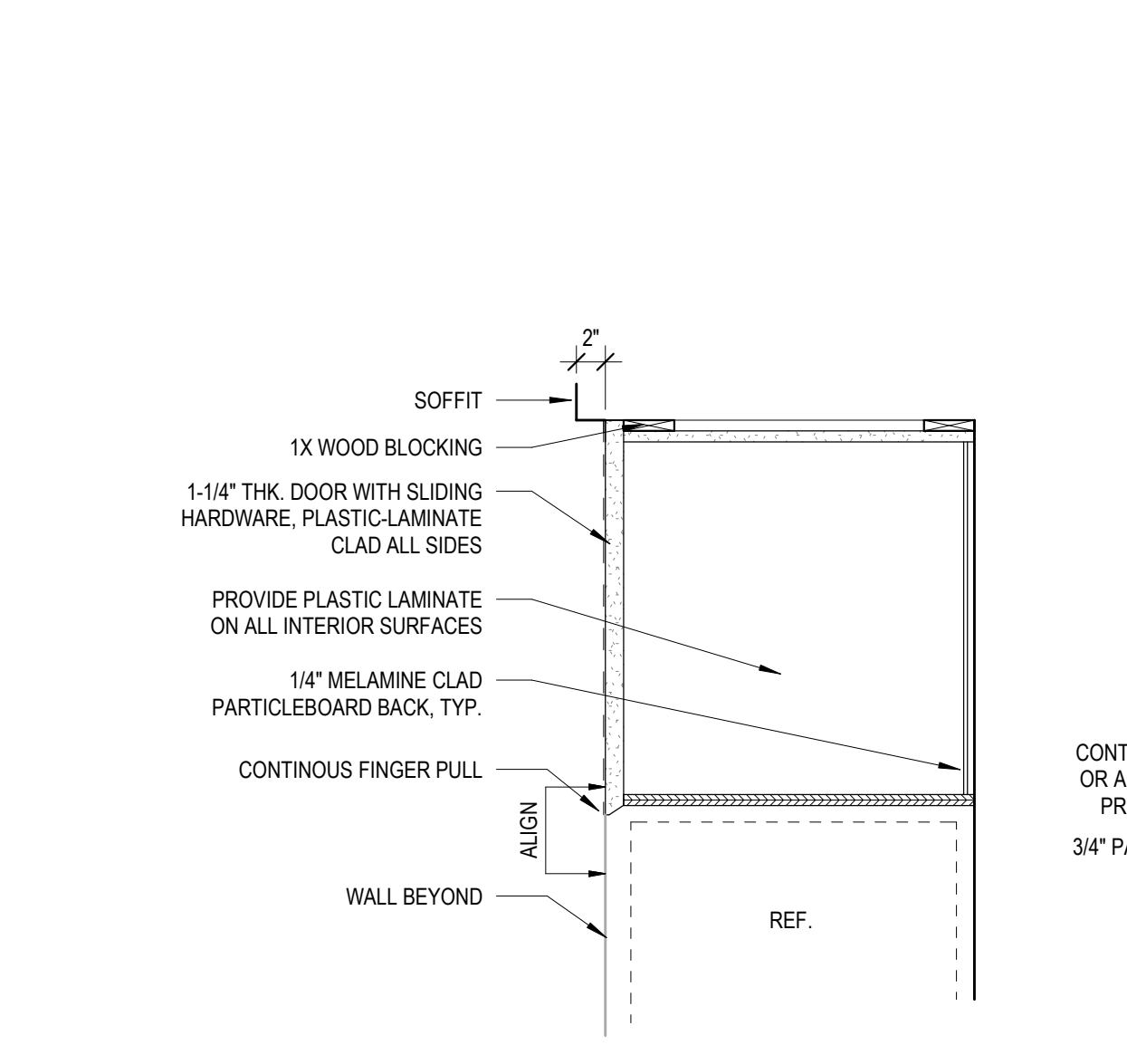
6 KITCHEN ISLAND - UNDERCABINET
SCALE: 1" = 1'-0"



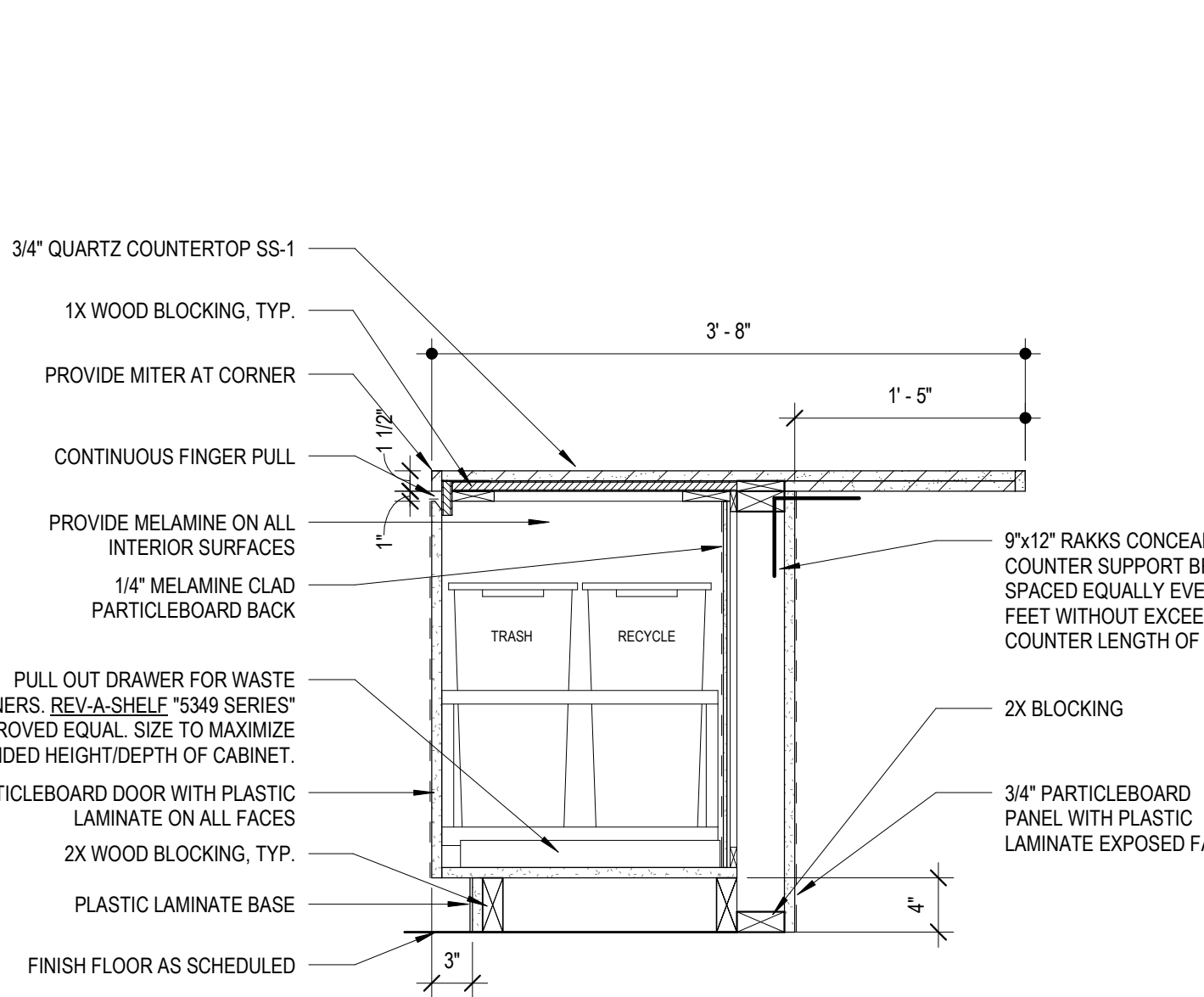
3 TYP SECTION AT BASE CABINET (SOLID SURFACE)
SCALE: 1" = 1'-0"



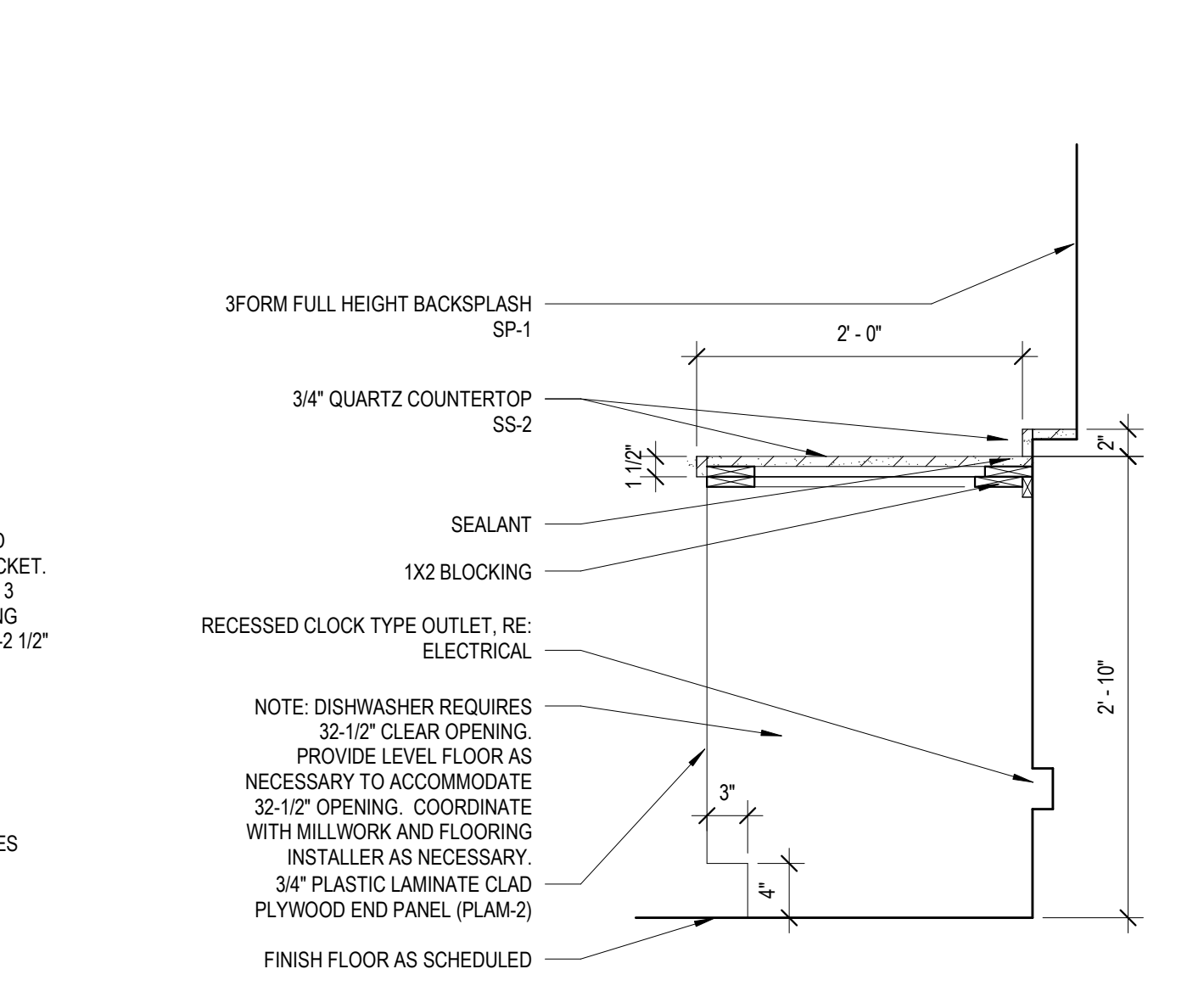
11 RECESSED MONITOR WALL
SCALE: 3/4" = 1'-0"



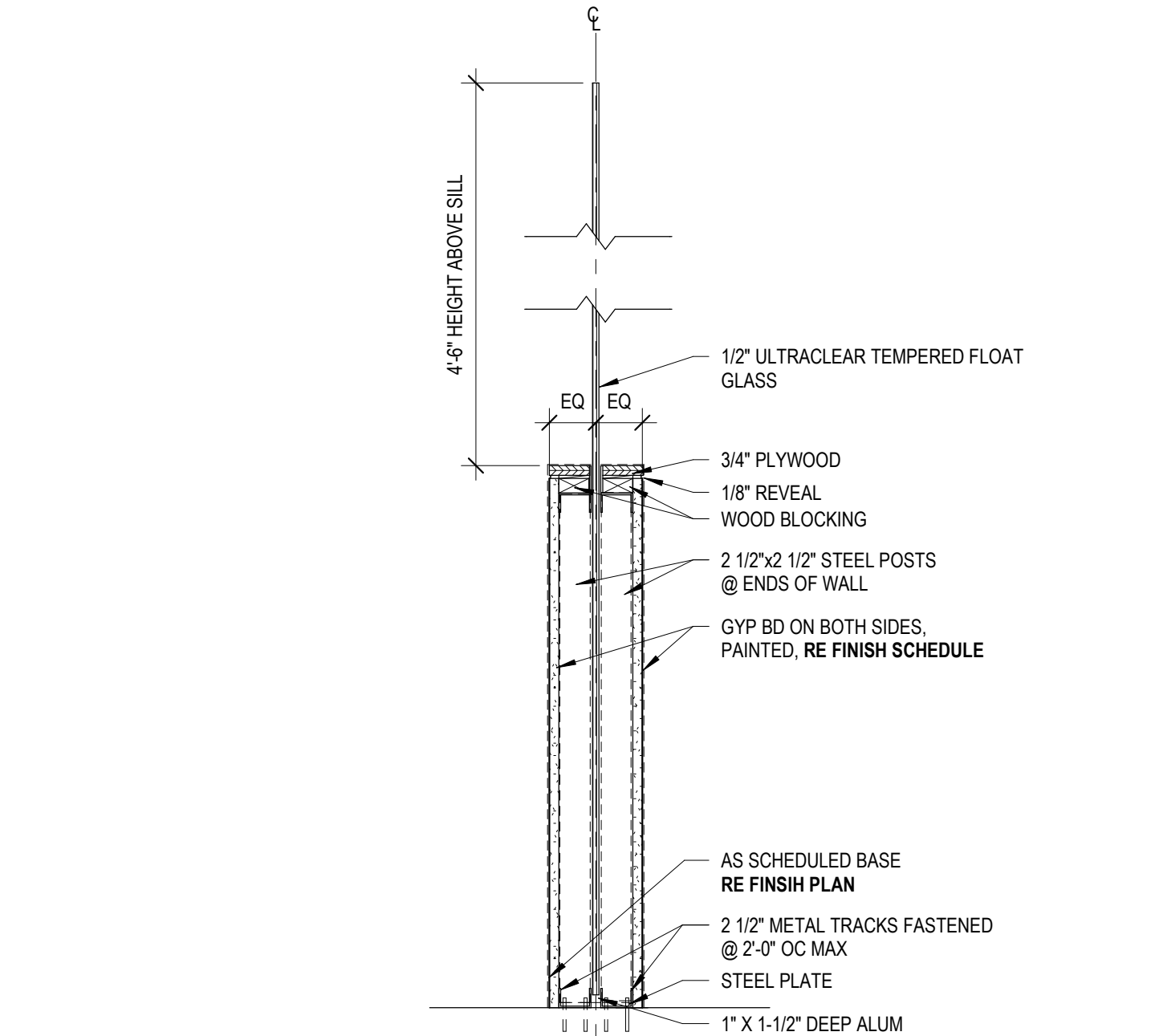
8 TYPICAL SECTION ABOVE REFRIGERATOR
SCALE: 1" = 1'-0"



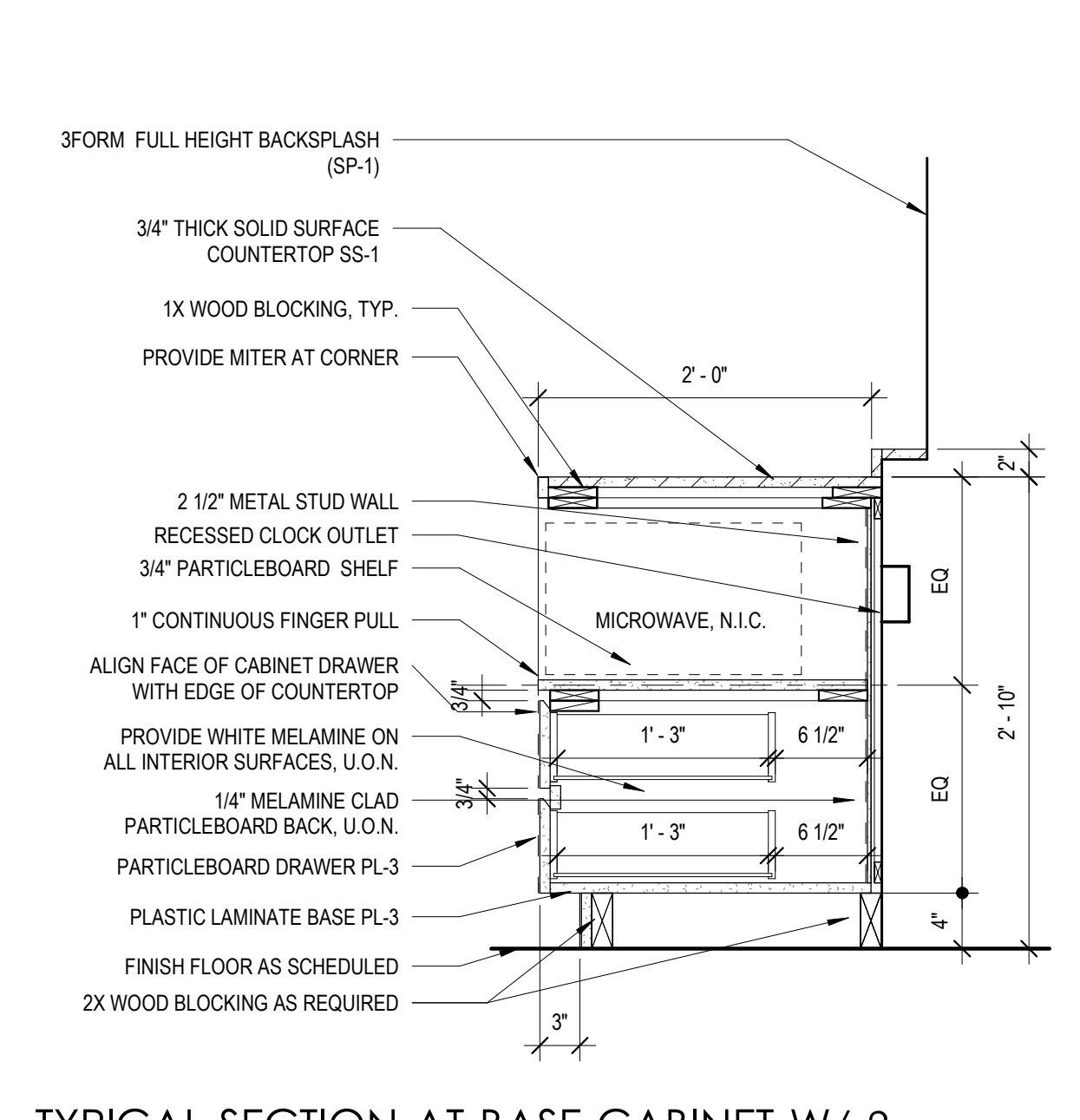
5 KITCHEN ISLAND - PULL-OUT TRASH
SCALE: 1" = 1'-0"



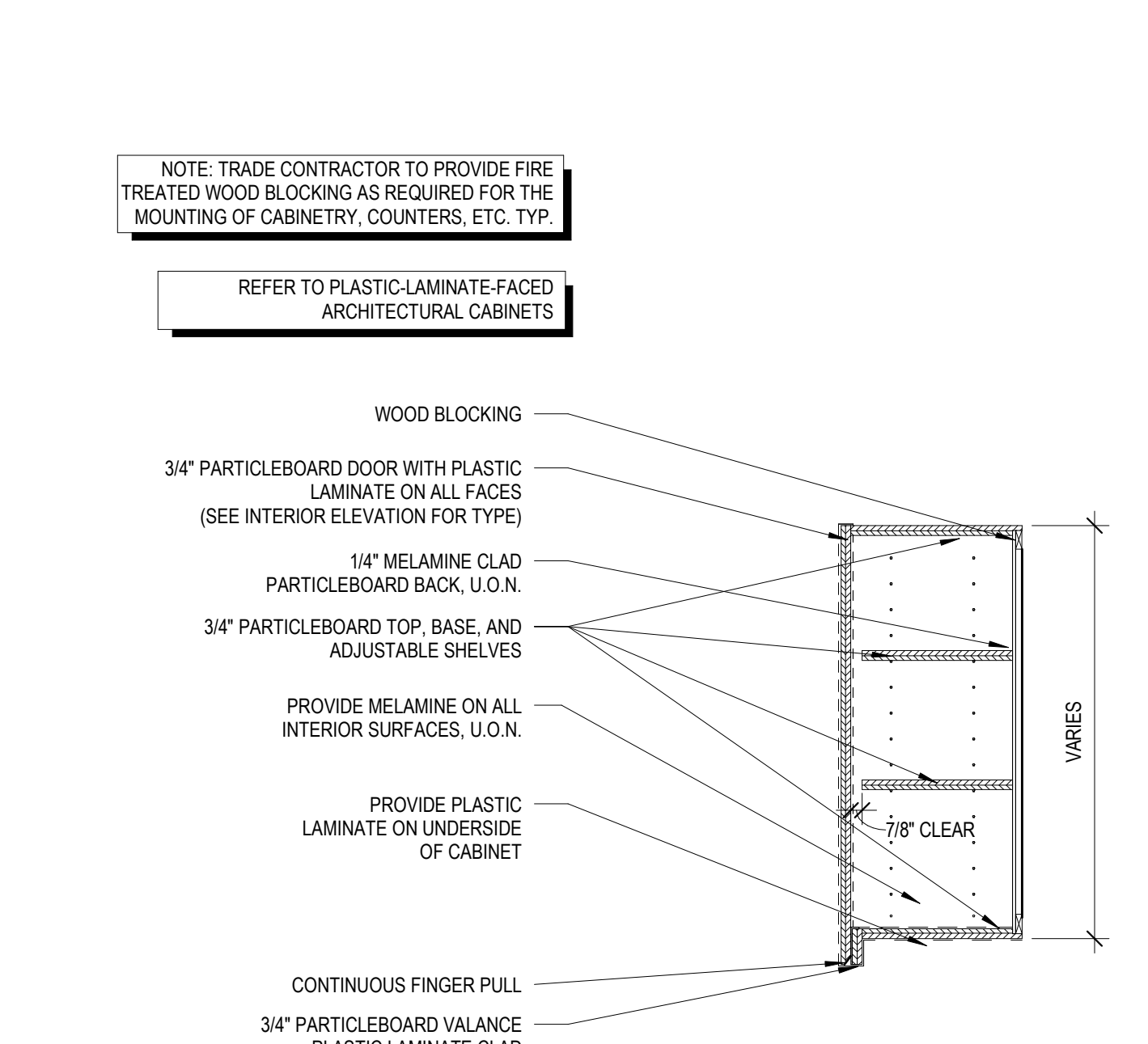
2 TYPICAL SECTION AT DISHWASHER
SCALE: 1" = 1'-0"



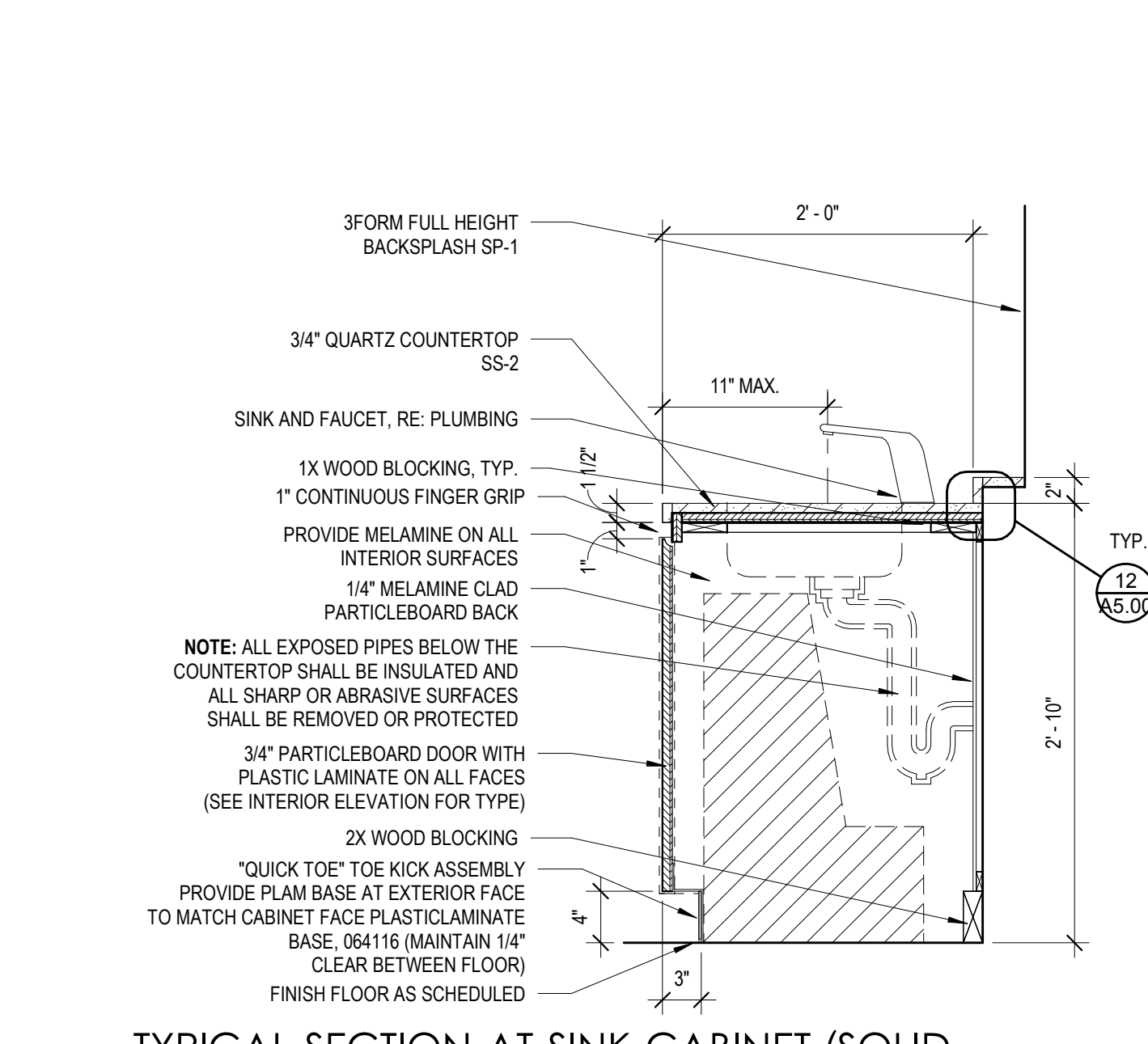
10 DETAIL @ GLASS WALL
SCALE: 1" = 1'-0"



7 TYPICAL SECTION AT BASE CABINET W/ 2 DRAWERS AND MICROWAVE
SCALE: 1" = 1'-0"



4 TYPICAL UPPER CABINET SECTION
SCALE: 1" = 1'-0"



1 TYPICAL SECTION AT SINK CABINET (SOLID SURFACE)
SCALE: 1" = 1'-0"

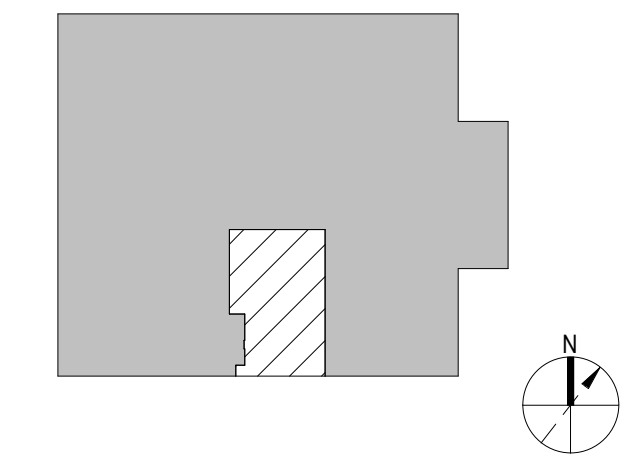
CT INNOVATIONS

CT INNOVATIONS - THE DISTRICT

470 James St,
Unit 8, New
Haven, CT
06513

CONSULTANTS

KEY PLAN



PROJECT DATA

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| CURRENT SUBMISSION DATE | 08.29.2019 |
| DRAWN | NNM |
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REVISIONS

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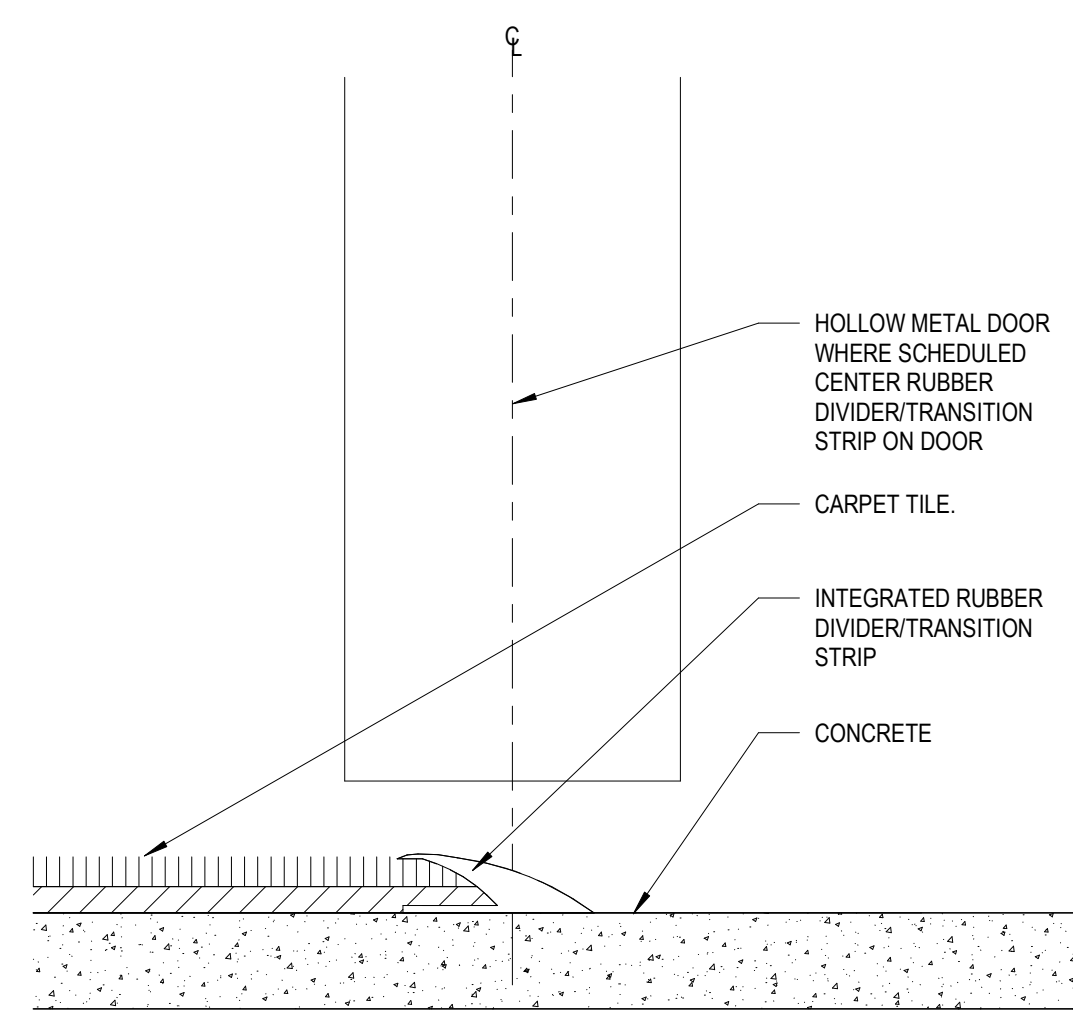
MILLWORK DETAILS

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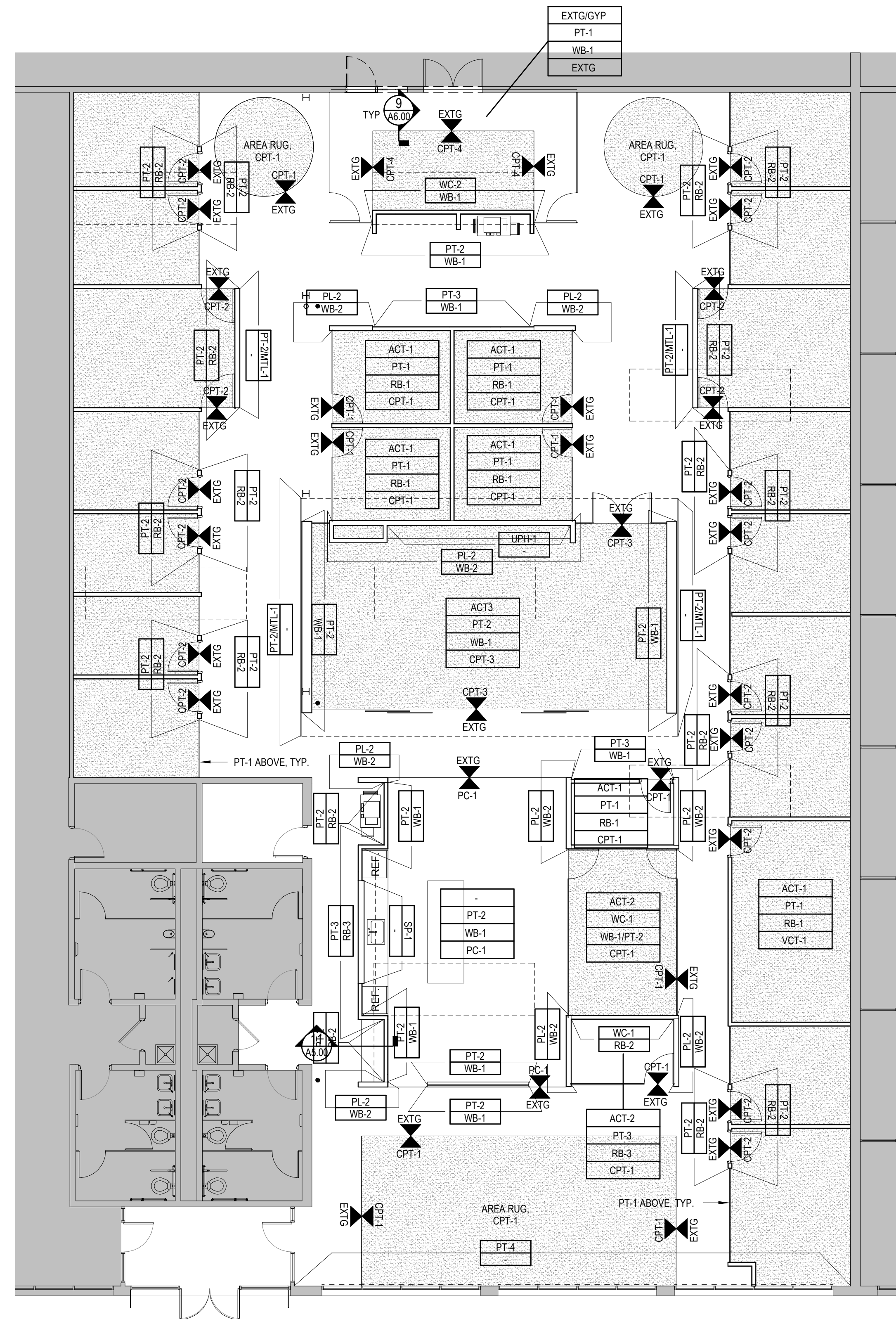
| PAINT | | BASE | | LAMINATE | | CARPET | |
|-------|--|--------------------------------|--|---------------------|--|-----------------------------|---|
| PT-1 | GENERAL WALL PAINT SHERWIN WILLIAMS COLOR: HIGH REFLECTIVE WHITE SW 7757 FINISH: MATTE | PROVIDE STRAIGHT BASE @ CARPET | | PL-1 | MANUFACTURER: ABET LAMINATI COLOR: POLARIS- 2902 BK | CPT-1 | MANUFACTURER: TANDUS CENTIVA STYLE: GEOKNIT 10887 COLOR: OCEAN ISLE 42718 INSTALLATION: TILE |
| PT-1A | SEMI GLOSS FOR DOOR FRAMES SHERWIN WILLIAMS COLOR: HIGH REFLECTIVE WHITE SW 7757 FINISH: SEMI GLOSS | RB-1 | MANUFACTURER: JOHNSONITE STYLE: 4" RUBBER BASE, 120' CONTINUOUS ROLL COLOR: TO MATCH PT-1 | PL-2 | MANUFACTURER: TREEFROG COLOR: TEAK GROOVE 60816 | CPT-2 | MANUFACTURER: TANDUS CENTIVA STYLE: GEOKNIT 10887 COLOR: SATURATED GREY 42703 INSTALLATION: TILE |
| PT-2 | ACCENT WALL PAINT SHERWIN WILLIAMS COLOR: IRON ORE SW 7069 FINISH: MATTE | RB-2 | MANUFACTURER: JOHNSONITE STYLE: 4" RUBBER BASE, 120' CONTINUOUS ROLL COLOR: TO MATCH PT-2 | WALLCOVERING | | CPT-3 | MANUFACTURER: BENTLEY MILLS STYLE: OUTLIER 80U23 COLOR: PERIMETER 801681 INSTALLATION: TILE |
| PT-2A | SEMI GLOSS FOR DOOR FRAMES SHERWIN WILLIAMS COLOR: IRON ORE SW 7069 FINISH: SEMI GLOSS | RB-3 | MANUFACTURER: JOHNSONITE STYLE: 4" RUBBER BASE, 120' CONTINUOUS ROLL COLOR: TO MATCH PT-3 | WC-1 | MANUFACTURER: D.L. COUCH STYLE: KEYSTONE MAG1089 COLOR: MIDNIGHT | CPT-4 | MANUFACTURER: BENTLEY MILLS STYLE: OUTLIER 80U23 COLOR: BORDERLAND 801682 INSTALLATION: AREA RUG SIZE: TBD |
| PT-3 | ACCENT WALL PAINT SHERWIN WILLIAMS COLOR: GREAT FALLS SW 6495 FINISH: MATTE | WB-1 | 4" WOOD BASE PAINTED TO MATCH WALL | WINDOW TREATMENTS | | ACOUSTICAL CEILING ASSEMBLY | |
| PT-3A | SEMI GLOSS FOR DOOR FRAMES SHERWIN WILLIAMS COLOR: GREAT FALLS SW 6495 FINISH: SEMI GLOSS | WB-2 | 4" WOOD BASE TO MATCH LAMINATE PANEL | WT-1 | MANUFACTURER: MECHOSHADE STYLE: TBD COORD. W/ OWNER | ACT-1 | MANUFACTURER: ARMSTRONG TILE: ULTIMA TEGULAR GRID: SUPRAFINE 9/16" EXPOSED TEE SIZE: 2'X4' COLOR: WHITE INSTALLATION PATTERN: ASHLAR |
| PT-4 | WHITE WASH PAINT FOR BRICK SHERWIN WILLIAMS COLOR: TBD FINISH: TBD | SOLID SURFACE | | METAL | | ACT-2 | MANUFACTURER: ARMSTRONG TILE: CALLA TEGULAR GRID: SUPRAFINE 9/16" EXPOSED TEE, BLACK SIZE: 2'X4' COLOR: BLACK |
| FL-1 | MANUFACTURER: 3M STYLE: SH2FGPX-1201 PATTERN: PUKELA COLOR: WHITE | SS-1 | MANUFACTURER: CORIAN STYLE: QUARTZ COLOR: BIANCO PUR | SPECIALTY MATERIALS | | ACT-3 | MANUFACTURER: ARMSTRONG TILE: CALLA TEGULAR GRID: SUPRAFINE 9/16" EXPOSED TEE, BLACK SIZE: 4'X4' COLOR: BLACK |
| VCT-1 | MANUFACTURER: TBD STYLE: TBD PATTERN: TBD COLOR: TBD | SS-2 | MANUFACTURER: ZODIAQ STYLE: QUARTZ COLOR: PORTORO | SP-1 | MANUFACTURER: 3FORM STYLE: STRUTTURA 5/8" PATTERN: FLOAT LARGE COLOR: TBD FINISH: PATENT F03 | | |
| UPH-1 | MANUFACTURER: TBD STYLE: TBD PATTERN: TBD ALLOWANCE: \$75 PER YARD | UPHOLSTERY | | | | | |
| PC-1 | EXISTING CONCRETE TO GET DARKER STAIN COLOR: TBD | POLISHED CONCRETE | | | | | |

FINISH SCHEDULE

| GENERAL FINISH NOTES | |
|----------------------|---|
| 1 | FLOOR MUST BE CLEAR OF ALL DUST AND DEBRIS PRIOR TO FLOORING INSTALLATION TO INSURE PROPER ADHESION TO SLAB. |
| 2 | FLOORING SUBCONTRACTOR SHALL PATCH/REPAIR ANY CRACKS, DEVIATIONS, AND ROUGH SURFACES ON ENTIRE CONCRETE SLAB, PRIOR TO INSTALLATION OF FLOORING MATERIALS. |
| 3 | WHERE FLOOR FINISHES CHANGE AT A DOOR, THE LINE OF TRANSITION SHALL BE AT THE CENTERLINE OF THE DOOR. |
| 4 | FLOORING SUBCONTRACTOR TO PROPERLY FLASH PATCH FLOOR SLAB PRIOR TO INSTALLATION OF FLOORING MATERIALS. |
| 5 | CONTRACTOR SHALL INSTALL BASE ON ALL PARTITIONS, COLUMNS, CABINET BASES. COLOR AS SPECIFIED IN LEGEND, U.O.N. |
| 6 | ALL SEAMS & TOP COATED SEALERS MUST BE PROVIDED BY MANUFACTURER FOR DURABILITY. |
| 7 | ALL FINISHES SHALL BE APPLIED/INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS OR INSTRUCTIONS. |
| 8 | ALL WALLS TO RECEIVE PAINT PT-1, U.O.N. |
| 9 | ALL FLOORS TO RECEIVE CARPET, CPT-2, U.O.N. |
| 10 | ALL BASE TO BE WB-1, U.O.N. |
| 11 | ALL H.M. DOORS AND FRAMES SHALL BE PAINTED WITH PT-2A (SEMI-GLOSS), U.O.N. |
| 12 | ALL SUBCONTRACTORS SHALL REVIEW THE EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES OR CONFLICTIONS TO THE ARCHITECT PRIOR TO INSTALLATION. |
| 15 | CONCRETE AND PATCHING AND FLASH PATCHING MATERIALS SHALL BE APPROPRIATE AND COMPATIBLE WITH INSTALLATION REQUIREMENTS OF DECORATIVE FLOOR FINISHES AND EXISTING CONCRETE SLAB. |
| 16 | PATCH CONCRETE FLOOR SURFACES TO ENSURE MAXIMUM VARIATION OF 1/8" IN 10'-0" FOR FLOORS TO BE COVERED WITH FLOORING MATERIAL. CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 302 AND ACI 304. |
| 17 | CONTRACTOR TO CARRY ALLOWANCE OF \$10,000 FOR FLOOR LEVELING. (PROJECT ARCHITECT TO REVIEW IF REQUIRED FOR PROJECT) |
| 18 | ALKALINITY AND ADHESION TESTING: PERFORM TESTS RECOMMENDED BY MANUFACTURER. PROCEED WITH INSTALLATION ONLY AFTER SUBSTRATES PASS TESTING. |
| 19 | ALL OFFICES TO RECEIVE ACT-1, PT-1, RB-1, CPT-2, U.O.N. |
| 20 | PAINT PATCHES OF EXPOSED BRICK WALL TO MATCH EXISTING WHITE WASHED BRICK WALL |
| 21 | AT ALL WALLS TO RECEIVE WALL COVERING FINISH (PER SCHEDULE) PROVIDE LEVEL 5 WALL FINISH. |



9 SILL DETAIL @ CONCRETE TO CARPET
SCALE: 12" = 1'-0"



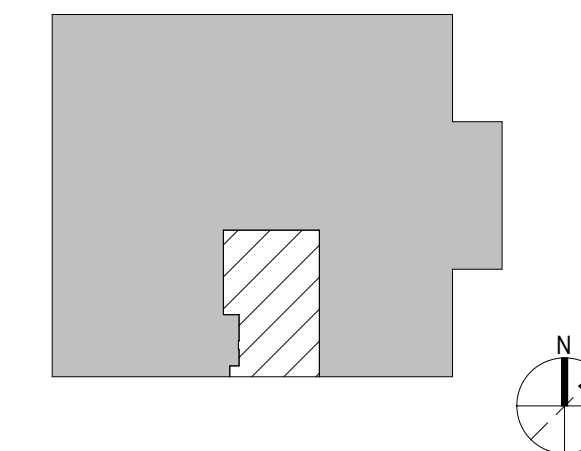
5 1ST FLOOR PLAN - FINISH PLAN
SCALE: 1/8" = 1'-0"

CT INNOVATIONS

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06513

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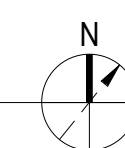
HISTORY OF SUBMISSIONS

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FINISH PLAN AND SCHEDULE, FLOORING DETAILS

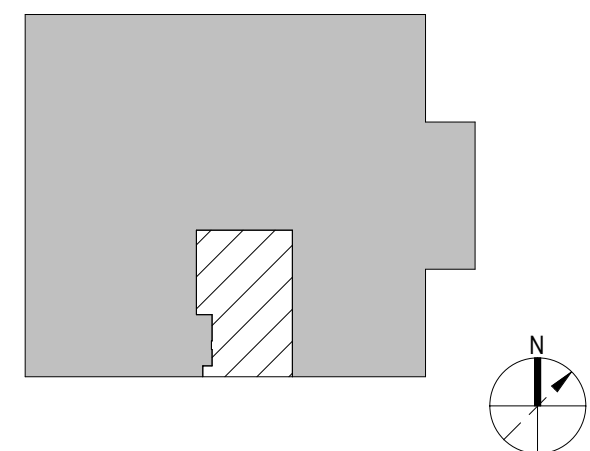


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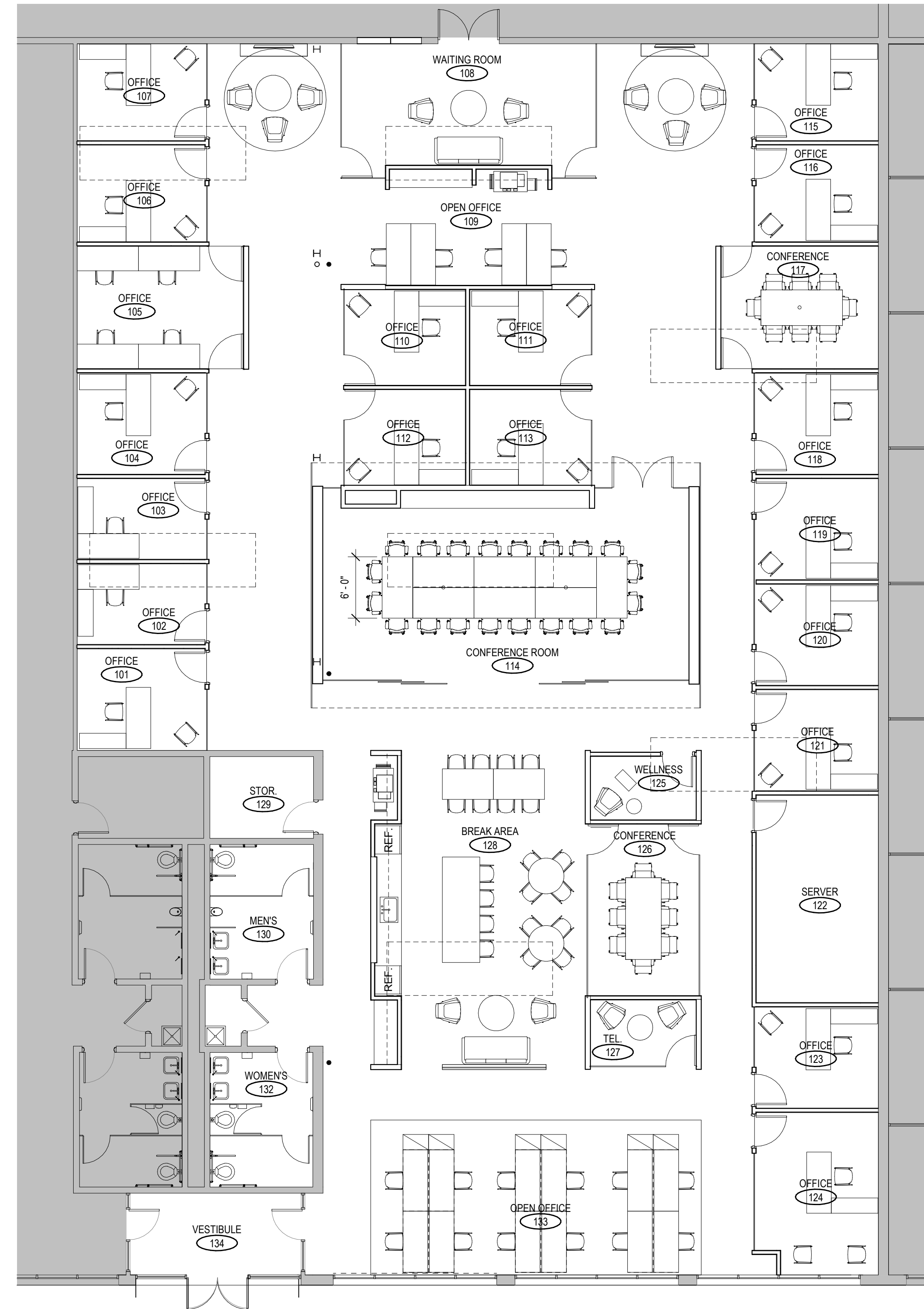
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FURNITURE AND FLOOR CORE PLANS



1ST FLOOR PLAN – FURNITURE AND FLOOR

5 CORE PLAN
 SCALE: 1/8" = 1'-0"

| GENERAL POWER PLAN NOTES | |
|--------------------------|---|
| 1 | PRIOR TO CORING OR TRENCHING SLAB, REVIEW LOCATIONS WITH ARCHITECT AND COORDINATE LOCATIONS WITH OWNER. REVIEW ACCEPTABLE TIMES OF DAY TO EXECUTE THE WORK WITH THE OWNER, REGULAR TIME OR OVERTIME; INCLUDE IN THE BASE BID. |
| 2 | COORDINATE INSTALLATION OF TELECOMMUNICATIONS, DATA AND SECURITY SYSTEMS WITH VENDORS. |
| 3 | FURNITURE SHOWN FOR DESIGN INTENT ONLY. COORDINATE WITH FURNITURE VENDOR ON FINAL FURNITURE LAYOUT AND ALL REQUIREMENTS PRIOR TO CONSTRUCTION. FURNITURE VENDOR SHALL BE RESPONSIBLE TO FURNISH AND HALL INSTALLED ALL FURNITURE, MOVABLE PARTITIONS & WORK STATIONS, FILE CABINETS, ETC. IT SHALL BE THE RESPONSIBILITY OF THE VENDOR TO CHECK AND VERIFY ALL MEASUREMENTS AND CONDITIONS IN THE FIELD PRIOR TO FINALIZING THE FURNITURE LAYOUT. |
| 4 | VERIFY EQUIPMENT SPECIFICATIONS, POWER AND INSTALLATION REQUIREMENTS WITH MANUFACTURER TO ENSURE PROPER FIT AND FUNCTION. |
| 5 | VERIFY MOUNTING REQUIREMENTS OF ELECTRICAL, TELEPHONE AND OTHER EQUIPMENT. |
| 6 | GANG ADJACENT LIGHT SWITCHES AND COVER WITH A SINGLE PLATE. |
| 7 | MOUNT STANDARD WALL OUTLETS, SWITCHES AND THERMOSTATS AT HEIGHTS REQUIRED BY ANSI GUIDELINES, UNLESS OTHERWISE NOTED. WHEN THERMOSTATS AND LIGHT SWITCH OCCUR TOGETHER, INSTALL BOTH ALIGNED HORIZONTALLY WITH CENTER LINE AT +3'-2" ABOVE FINISHED FLOOR. SEE MOUNTING HEIGHTS INFORMATION. |
| 8 | INDICATED DIMENSIONS ARE TO THE CENTER LINE OF OUTLET OR SWITCH, CLUSTER OF OUTLETS OR SWITCHES, UNLESS OTHERWISE NOTED. |
| 9 | INSTALL OUTLETS ON OPPOSITE SIDES OF PARTITIONS IN SEPARATE STUD CAVITIES. DO NOT INSTALL BACK-TO-BACK. |
| 10 | PROVIDE MATCHING COVER PLATES, RECEPTACLES AND RELATED ITEMS. REPLACE EXISTING NON-MATCHING AS REQUIRED. PROVIDE ONE-PIECE TYPE GANG COVER PLATES, UNLESS OTHERWISE NOTED. |
| 11 | ALL LIGHT SWITCHES SHALL BE LEVITON 5601-W DECORA AC QUIET ROCKER SWITCHES COLOR WHITE UNLESS OTHERWISE NOTED. ALL EXISTING SWITCHES SHALL BE RETROFITTED TO MATCH NEW SPECIFICATION. |
| 12 | ALL RECEPTACLES SHALL BE LEVITON 5325-W DECORA AC RECEPTACLES COLOR WHITE UNLESS OTHERWISE NOTED. ALL EXISTING RECEPTACLES SHALL BE RETROFITTED TO MATCH NEW SPECIFICATION. |
| 13 | IDENTIFY DEDICATED OR ISOLATED GROUND ELECTRICAL OUTLETS WITH A RED DOT. |
| 14 | COORDINATE WITH CABLE VENDOR TO LOCATE CABLE TRAYS ABOVE CEILING AS REQUIRED. |
| 15 | COORDINATE ELECTRICAL REQUIREMENTS FOR ALL DOORS REQUIRING CARD READER ACCESS, OR THAT HAVE OTHER ELECTRICAL HARDWARE REQUIREMENTS. COORDINATE WITH SECURITY VENDOR AND WITH THE DOOR HARDWARE SCHEDULE. |

9 GENERAL POWER PLAN NOTES

FIRE PROTECTION LEGEND

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| | FIRE PROTECTION PIPING (PROPOSED) |
| | OS&Y GATE VALVE W/ TAMPER SWITCH |
| | DOUBLE CHECK VALVE BACKFLOW PREVENTER |
| | ALARM CHECK VALVE |
| | DRY PIPE VALVE |
| | 5" STORZ TYPE FIRE DEPARTMENT CONNECTION |
| | WATER MOTOR GONG |
| | BACKFLOW PREVENTER TEST HEADER |
| | CHECK VALVE |
| | BUTTERFLY VALVE W/ TAMPER SWITCH |
| | CONCEALED PENDENT SPRINKLER HEAD |
| | UPRIGHT SPRINKLER HEAD |
| | PENDENT SPRINKLER HEAD W/ DEEP ESCUTCHEON |
| | HORIZONTAL SIDEWALL SPRINKLER HEAD |

CT INNOVATIONS - THE DISTRICT

470 James Street
New Haven, CT, 06513

CONSULTANTS



KEY PLAN

PROJECT DATA

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| PROJECT NUMBER | 18-000 |
| CURRENT SUBMISSION DATE | 08/29/19 |
| DRAWN | DMR |
| CHECKED | GFL |
| SCALE | As indicated |

HISTORY OF SUBMISSIONS

| No. | Date | Description |
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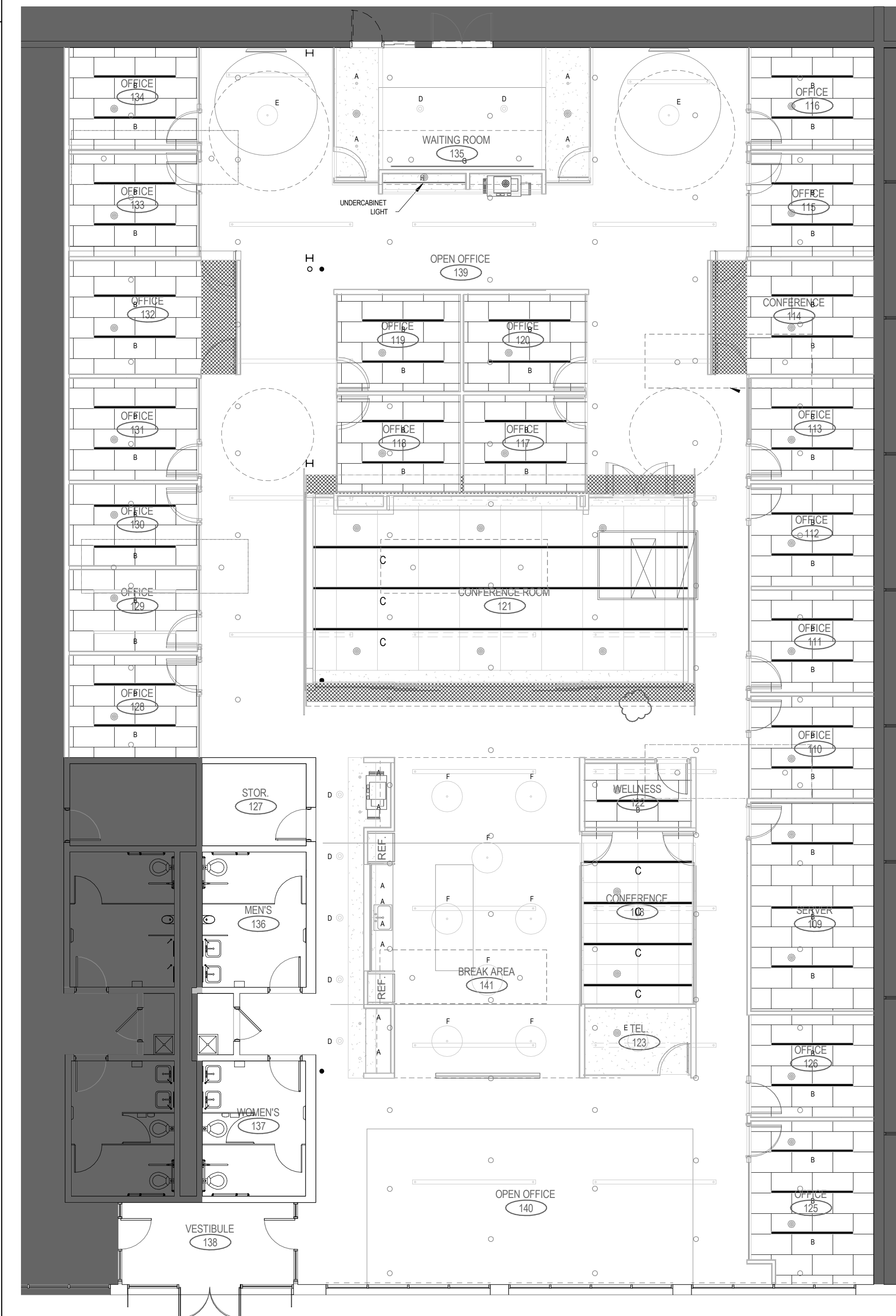
SHEET TITLE

FIRST FLOOR FIRE PROTECTION PLAN

FP1.01.

FIRE PROTECTION GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH CURRENT APPLICABLE CODES, ORDINANCES, THE REGULATORY AGENCIES HAVING JURISDICTION AND THE SPECIFICATIONS. THE SPECIFICATIONS MAY EXCEED THE REQUIREMENTS OF THE CODE, IN WHICH CASE, THE SPECIFICATION MUST BE FOLLOWED.
- THE INTENT OF THESE DOCUMENTS IS FOR THE MEP TRADES TO FURNISH AND INSTALL COMPLETE MECHANICAL AND ELECTRICAL SYSTEMS. THE SPECIFIED FIRE PROTECTION SYSTEM SHALL BE COMPLETE IN ALL RESPECTS; OPERATIONAL, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER.
- THE TRADES SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS BEFORE SUBMITTING A BID. INFORMATION IS PROVIDED ON THE VARIOUS DRAWINGS, SCHEDULES, SPECIFICATIONS AND ALL OF THE VARIOUS DOCUMENTS IN THE BIDDING PACKAGE. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND FORM A TOTAL PROJECT DESIGN AND INFORMATION SOURCE FOR CONSTRUCTION PURPOSES.
- THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. COORDINATE LOCATIONS OF EQUIPMENT WITH OTHER TRADES BEFORE AND DURING CONSTRUCTION. ANY MODIFICATION TO THE EQUIPMENT LAYOUT, REQUIRED FOR INSTALLATION, IS TO BE PERFORMED UNDER THE CONTRACT AGREEMENT, AT NO ADDITIONAL COST. REFER TO DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT AND PIPING. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EQUIPMENT AND PIPING INSTALLATION WITH ALL THE TRADES BEFORE COMMENCING WORK.
- EQUIPMENT SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS, WHEN EQUIPMENT MUST BE LOCATED ABOVE AN INACCESSIBLE CEILING (GYP BOARD OR EQUIVALENT), OR BEHIND A WALL, AN APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. ACCESS DOORS FOR FIRE RATED WALLS AND CEILINGS SHALL BE FURNISHED WITH A MINIMUM 1-1/2 HOUR LABEL "B" UL LISTED RATING OR GREATER AS REQUIRE BY THE ASSEMBLY RATING. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF ACCESS PANELS FOR ALL VALVES AND DEVICES, REQUIRING ACCESS, WITH THE ARCHITECT, PRIOR TO INSTALLATION OF SUCH DEVICES OR OTHER APPURTENANCES.
- WHERE A CONFLICT OCCURS BETWEEN THE DOCUMENTS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. CARRY AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEM(S).
- THIS CONTRACT SHALL INCLUDE ALL THE NECESSARY PIPING, FITTINGS, TRANSITIONS ETC. AS REQUIRED TO INSTALL PIPING AND EQUIPMENT, AND TO AVOID ANY CONFLICTS WITH OTHER TRADES AND THE BUILDING STRUCTURE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS HE MAKES AS A RESULT OF HIS FAILURE TO COORDINATE WITH OTHER TRADES OR BECOME FULLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES.
- DO NOT INSTALL ANY PIPING OVER ELECTRICAL PANELS, TRANSFORMERS, SPECIAL EQUIPMENT, OR THROUGH ELECTRICAL ROOMS, DATA ROOMS, ELEVATOR MACHINE ROOM, STAIRWELL OR STAIRWELL WALLS THAT ARE NOT ASSOCIATED WITH OR SERVE THE RESPECTIVE ROOMS. COORDINATE THE LOCATION OF ELECTRICAL EQUIPMENT IN THE FIELD AND ADJUST AS NECESSARY.
- IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW INDIVIDUAL BRANCH PIPING TO EACH AND EVERY SPRINKLER HEAD. ONLY THE SPRINKLER OR STANDPIPE MAIN ROUTING IS INDICATED TO AIDE IN COORDINATION WITH ALL TRADES. THE ENTIRE FIRE SUPPRESSION SYSTEM SHALL BE FULLY OPERATIONAL AND READY FOR BENEFICIAL USE BEFORE THE JOB IS CONSIDERED COMPLETE.
- REFER TO THE LATEST ARCHITECTURAL PLANS FOR CEILING CONSTRUCTION, ELEVATIONS, SECTIONS, DETAILS, LOCATIONS OF SOFFITS, CEILING POCKETS, STEPPED CEILING, SKYLIGHT, ETC. PROVIDE ADDITIONAL PIPING AND SPRINKLER HEADS AS THE CONDITIONS WARRANT.
- WHERE SPRINKLER HEADS ARE SHOWN ON CONTRACT DOCUMENTS, THEY ARE INDICATED FOR GENERAL COORDINATION PURPOSES ONLY AND DO NOT RELIEVE THE CONTRACTOR FROM FULL COMPLIANCE WITH APPLICABLE CODES AND GOOD INSTALLATION PRACTICE. THE CONTRACTOR SHALL FURNISH AND INSTALL ADDITIONAL SPRINKLERS AS NECESSARY DUE TO OBSTRUCTION FOR A COMPLETE SPRINKLER SYSTEM PER NFPA #13.
- SPRINKLER HEAD LOCATIONS SHALL BE COORDINATED WITH THE LATEST ARCHITECTURAL REFLECTED CEILING PLANS, LIGHT FIXTURES, DIFFUSERS, SPEAKERS, SMOKE DETECTORS, MECHANICAL AND ELECTRICAL EQUIPMENT. INSTALL SPRINKLER HEADS BENEATH DUCTS AND CEILING MOUNTED EQUIPMENT MORE THAN 4 FEET WIDE. FULL SPRINKLER COVERAGE TO ACCOUNT FOR OBSTRUCTIONS IS THE RESPONSIBILITY OF THE INSTALLING PROFESSIONAL.
- SPRINKLER HEADS SHALL NOT BE INSTALLED DIRECTLY FROM THE BOTTOM OF HORIZONTAL SPRINKLER MAINS OR BRANCH LINES. ALL CONNECTIONS TO SPRINKLER HEADS SHALL BE MADE FROM THE TOP OR SIDES OF THE MAIN OR BRANCH LINES.
- BRANCH PIPING TO SPRINKLER HEADS SHALL BE A MINIMUM OF 1" DIA. WITH FULL SIZE REDUCING TEE OR LARGER. INSTALLATION OF REDUCING TEES LESS THAN 1" DIA. WILL NOT BE ALLOWED. INSTALLATION OF NIPPLES LESS THEN 1" DIA. WILL NOT BE PERMITTED.
- PROVIDE LISTED GUARDS WHERE SPRINKLER HEADS ARE SUBJECT TO DAMAGE OR INJURY. (GYMNASIUM, STAGE, MECHANICAL ROOMS, STORAGE ROOMS, UTILITY ROOMS, ETC.) OR ARE LOCATED BELOW 7'-6" ABOVE FINISHED FLOOR.
- INSTALL ALL PIPING WITH PROVISION FOR COMPLETE DRAINAGE. WET-PIPE SPRINKLER SYSTEM MAY BE INSTALLED LEVEL AND WITHOUT SLOPE.
- COORDINATE LOCATIONS OF FIRE DEPARTMENT CONNECTIONS AND FIRE PROTECTION SERVICE CONTROL VALVES, INSPECTOR TEST DRAINS VALVES WITH THE AUTHORITY HAVING JURISDICTION (FIRE MARSHAL) PRIOR TO INSTALLATION. INSTALL INSPECTOR TEST VALVES AT MAXIMUM 7'-0" ABOVE FINISHED FLOOR OR AS DIRECTED BY THE AHJ.
- ALL EQUIPMENT MAIN DRAINS AND INSPECTOR TEST DRAINS SHALL BE PIPED TO THE EXTERIOR OF THE BUILDING. PROVIDE CONCRETE SPLASH BLOCKS AT EACH DRAIN LOCATION TO AVOID SOIL EROSION OR OTHER DAMAGE.
- COORDINATE ALL FIRE PROTECTION EQUIPMENT REQUIRING POWER AND/OR CONNECTION TO THE FIRE ALARM SYSTEM WITH THE ELECTRICAL CONTRACTOR.
- FLOOR MOUNTED FIRE PROTECTION EQUIPMENT SHALL BE INSTALLED ON A 6" CONCRETE HOUSE-KEEPING PAD. COORDINATE SIZE AND FINAL LOCATION OF ALL CONCRETE PADS WITH THE STRUCTURAL ENGINEER. PADS SHALL BE MINIMUM 6" LARGER THAN THE EQUIPMENT IN BOTH HORIZONTAL DIRECTIONS.
- COORDINATE EXACT LOCATION OF FIRE PROTECTION SERVICE ENTERING THE BUILDING WITH THE SITE CONTRACTOR AND UTILITY DRAWINGS PRIOR TO INSTALLATION. COORDINATE ALL FOUNDATION WALL PENETRATIONS AND INVERT ELEVATIONS WITH THE GENERAL CONTRACTOR AND/OR CONSTRUCTION MANAGER BEFORE COMMENCING WORK.
- ALL FIRE PROTECTION PIPING SHALL HAVE SEISMIC BRACING IN ACCORDANCE WITH THE STATE BUILDING CODE, NFPA 13 AND THE AUTHORITY HAVING JURISDICTION, AND/OR AS SPECIFIED. SUBMIT ENGINEERED INSTALLATION DETAILS AND CALCULATIONS PER THE SPECIFICATIONS. THE CONTRACTOR'S SEISMIC ENGINEER SHALL REVIEW THE INSTALLATION AND PROVIDE A DETAILED REPORT FOR THE RECORD.



SPRINKLER SYSTEM SPECIFICATIONS:

1. DESCRIPTION:

- A. INSTALL NEW SPRINKLER SYSTEM WITH DROPS TO NEW GRID CEILING.
- B. WORK INCLUDES: INSTALL NEW PENDENT SPRINKLER HEADS IN GRID CEILINGS.
- C. FURNISH ALL NECESSARY LABOR, MATERIAL, TOOLS, EQUIPMENT, APPURTENANCES, INSTRUMENTS, ETC., NECESSARY TO FULLY COMPLETE THE FIRE PROTECTION SYSTEM IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND BOTH LOCAL AND STATE FIRE CODES AND N.F.P.A. #13.

2. CONTRACTOR'S RESPONSIBILITIES:

- A. ALL PERMITS AND FEES.
- B. HOISTING, RIGGING, TRANSPORTATION COSTS AND INSTALLATION OF NECESSARY APPURTENANCES.
- C. THE CONTRACTOR SHALL VISIT THE PREMISES AND NOTE ALL PERTINENT FACTS AND DETAILS INCLUDING CONDITIONS UNDER WHICH THE WORK MUST BE CARRIED OUT. NO ALLOWANCE WILL BE MADE FOR FAILURE TO HAVE DONE SO.
- D. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE NOTIFICATION OF OUTAGE AND IMPAIRMENT TO THE EXISTING FIRE PROTECTION SYSTEMS TO GENERAL CONTRACTOR, BUILDING OWNER AND LOCAL AUTHORITIES. LEAVE SPRINKLER SYSTEM OPERATIONAL DURING CONSTRUCTION TO GREATEST EXTENT POSSIBLE.
- E. HOLES, CUTTINGS AND PATCHING: CUTTING WILL BE BY CORE BORING, PATCHING WILL REQUIRE BOTH WATERPROOFING AND FIREPROOFING.
- F. DRAWINGS ARE DIAGRAMMATIC, DO NOT SCALE DRAWINGS. MAKE SUCH DEVIATIONS AND OFFSETS AS NECESSARY TO MEET SPACE REQUIREMENTS.
- G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATER DAMAGE TO THE PROPERTY OF THE OWNER, THE WORK OF OTHER TRADES, AND TO EXISTING BUILDING SYSTEMS DURING ALL PHASES OF THE WORK.

3. COORDINATION DRAWINGS:

- A. DEVELOP AND SUBMIT COORDINATION DRAWINGS AS OUTLINED.
- B. SHEET METAL, PLUMBING AND FIRE PROTECTION SHOP DRAWINGS THAT HAVE BEEN COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. DRAWINGS MUST BE RETURNED FROM ENGINEER EITHER "NO EXCEPTIONS TAKEN" OR "MAKE CORRECTIONS NOTED" PRIOR TO BEING USED AS A BASIS FOR COORDINATION DRAWINGS.
- C. AFTER SHEET METAL AND PIPING DRAWINGS HAVE BEEN REVISED PER ENGINEERS COMMENTS, REPRODUCIBLE COPIES SHALL BE SENT TO THE OTHER TRADES IN THE FOLLOWING SEQUENCE FOR THE INCLUSION OF THEIR WORK:
 - MECHANICAL SHEET METAL
 - PLUMBING CONTRACTOR
 - ELECTRICAL WORK
 - MECHANICAL PIPING
- D. AFTER ALL TRADES HAVE INCLUDED THEIR WORK ON THE COORDINATION DRAWING AND NOTED CONFLICTS, ALL TRADES SHALL MEET TO RESOLVE CONFLICTS AND AGREE TO ACCEPTABLE SOLUTIONS. EACH TRADE SHALL SIGN COORDINATION DRAWINGS. ITEMS NOT SHOWN ON COORDINATION DRAWING ARE RESPONSIBILITY OF OMITTING CONTRACTOR AND CONTRACTOR IS SUBJECT TO ADDITIONAL COST INCURRED BY OTHER TRADES.
- E. THE ARCHITECT AND ENGINEER ARE NOT PART OF THE COORDINATION DRAWING PROCESS. THE ENGINEER WILL PROVIDE ASSISTANCE FOR NOTED CONFLICTS ONLY. COORDINATION DRAWINGS ARE NOT TO BE CONSIDERED PIPING OR DUCT SHOP DRAWINGS. THE CONTRACTOR IS REQUIRED TO SUBMIT INDIVIDUAL PIPING AND DUCTWORK SHOP DRAWINGS FOR REVIEW BY THE ENGINEER. PIPING AND DUCTWORK SHOP DRAWINGS SHALL FOLLOW THE DESIGN INTENT OF THE CONTRACT DOCUMENTS.
- F. SUBMIT FINAL SIGNED COORDINATION DRAWING TO THE ENGINEER FOR REVIEW. ENGINEER WILL REVIEW COORDINATION DRAWINGS FOR GENERAL ARRANGEMENT AND FOR NOTED CONFLICTS ONLY. SPECIFIC INSTALLATION REQUIREMENTS WILL BE REVIEWED ONLY IN INDIVIDUAL TRADE SHOP DRAWINGS.
- G. ANY WORK FABRICATED OR INSTALLED PRIOR TO SIGN OFF BY ALL TRADES WHICH IS DEEMED TO BE IN CONFLICT WITH COORDINATION DRAWINGS SHALL BE REMOVED AND REINSTALLED IN CONFORMANCE WITH COORDINATION DRAWINGS.
- H. EACH CONTRACTOR (MENTIONED ABOVE) IS RESPONSIBLE FOR THE COORDINATION OF HIS SUBCONTRACTORS.

- 1. THE OVERALL COORDINATION OF THE COORDINATION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER IS NOT RESPONSIBLE FOR THE COORDINATION PROCESS. THE ENGINEER WILL RESPOND TO QUESTIONS THAT ARISE FROM THE COORDINATION PROCESS. DRAWINGS SUBMITTED WILL BE REVIEWED FOR CLEARLY IDENTIFIED CONFLICTS ONLY. SOLUTIONS TO THE CONFLICTS WILL NOT BEAR ADDITIONAL COST.

4. INTERIOR PIPING:

- A. STANDARD WEIGHT SCHEDULE 40 BLACK STEEL PIPE, ASTM A-795 OR A-53, WITH:
 - 1. VICTAULIC STYLE 005 COUPLINGS AND FULL FLOW FITTINGS, ASTM A-47 AND A-536, IN SIZES 2" AND SMALLER. STANDARD SQUARE CUT GROOVES TO COUPLING MANUFACTURER'S SPECIFICATIONS.
 - 2. MALLEABLE IRON THREADED FITTINGS 150 LB. ANSI B16.3, OR CAST IRON THREADED FITTINGS 250 LB. ANSI B16.4, IN ALL SIZES.
- B. LIGHT WALL PIPE SCHEDULE 10, ASTM A-135, VICTAULIC STYLE 005 COUPLINGS AND FULL FLOW FITTINGS, ASTM A-47 AND A-536, IN SIZES 2-1/2" AND LARGER, WITH ROLLED GROOVES. NO CUT GROOVES OR THREADING WILL BE ALLOWED ON SCHEDULE 10.

5. SPRINKLER DROPS:

- FLEXHEAD COMMERCIAL CEILING SPRINKLER CONNECTIONS ALL 304 STAINLESS STEEL BRAIDED HOSE ASSEMBLY, HD-60 GALVANIZED SHEET METAL BRACKET SYSTEM COMPATIBLE WITH LIGHT, MEDIUM AND HEAVY LOAD CEILING GRID SYSTEM PER ASTM C635 AND C636; FACTORY ASSEMBLED AND TESTED. FM APPROVED.

6. SPRINKLER HEADS:

- SPRINKLER HEADS SHALL BE VIKING, RELIABLE, VICTAULIC OR TYCO. EQUAL TO THE FOLLOWING MODEL NUMBER(S) AND TYPE(S):
 - A. TYCO MODEL TY3231 RECESSED PENDENT SPRINKLER, 1/2" ORRIFICE, 155°F, CHROME PLATED FINISH WITH STYLE 10 CHROME PLATED ESCUTCHEON.

7. VALVES:

- VALVES SHALL BE MILLWAUKEE, KENNEDY, NIBCO OR HAMMOND. EQUAL TO THE FOLLOWING MODEL NUMBER(S) AND TYPE(S):
 - A. GLOBE VALVES: HAMMOND FIG. IB-413-T. UNION BONNET, TEFLON DISC, BRONZE GLOBE VALVE.
 - B. BALL VALVES: HAMMOND FIG. 8501, BRONZE TWO PIECE BODY, BRASS STEM, CHROME PLATED BRASS BALL, TEFLOM SEATS AND STUFFING BOX RING, LEVEL HANDLE, THREADED END.

8. EXECUTION:

- A. THE COMPLETE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH RULES AND REGULATIONS PERTAINING TO ORDINARY HAZARD (NOT TO EXCEED 130 SQ.FT. PER HEAD - SYSTEM TO BE HYDRAULICALLY CALCULATED, NOT SIZED AS PER PIPE SIZING SCHEDULE) OCCUPANCY AND COMPLY WITH FULL REQUIREMENTS OF THE REGULATORY AGENCIES.
- B. THE FIRE PROTECTION CONTRACTOR SHALL HAVE PREPARED BY A NICET LEVEL IV CERTIFIED SPRINKLER TECHNICIAN OR UNDER A P.E. WORK INSTALLATION DRAWINGS (SHOP DRAWINGS) AND SHALL SUBMIT THEM TO THE ENGINEER AND RATING BUREAU FOR APPROVAL.
- C. SHOP DRAWING SHALL INCLUDE ALL HYDRAULIC CALCULATIONS PREPARED ON FORMS SIMILAR TO THOSE IN NFPA #13, APPENDIX A.
- D. BUILDING DESIGN CRITERIA: ORDINARY HAZARD GROUP II - 0.20 GPM/SF DENSITY OVER THE MOST REMOTE 1500 SQ.FT. PROTECTION AREA LIMITATION 130 SQ.FT.
- E. BEFORE COMMENCING WORK, THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE WITH OTHER TRADES, SO THAT NO POSSIBLE INTERFERENCE WILL OCCUR. IF DUE TO INADEQUATE COORDINATION, EXTRA WORK IS ENTAILED, THE FIRE PROTECTION CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE.

9. PIPING SYSTEMS:

- A. SPECIAL CARE MUST BE TAKEN TO INSURE THAT PIPING ABOVE HUNG CEILINGS IS RUN TO MAINTAIN MAXIMUM HEADROOM AND CLEARANCE FOR ACCESS TO THE EQUIPMENT AND TO AVOID CONFLICT WITH THE ELECTRICAL CONDUITS, LIGHTING FIXTURES, OTHER PIPING, DUCTWORK AND EQUIPMENT OF OTHER TRADES.
- B. THE PIPING SHALL BE SO ARRANGED THAT THE ENTIRE SYSTEM CAN BE FLUSHED AND DRAINED THROUGH ACCESSIBLE LOW POINTS. PROVIDE AUXILIARY DRAINS FOR WATER TRAPPED SECTIONS OF PIPE. DRAIN PIPE SHALL BE GALVANIZED.
- C. RUN PIPING CONCEALED THROUGHOUT FINISHED SPACES, EITHER IN FURRED SPACES, SHAFTS, OR ABOVE FALSE CEILINGS. PIPE SIZE FOR DROPS TO SPRINKLER HEADS LOCATED BELOW SUSPENDED CEILINGS SHALL BE 1" MINIMUM. PIPING SHALL BE SUPPORTED PER REQUIREMENTS OF NFPA #13.
- D. CHROME-PLATED ESCUTCHEONS SHALL BE USED ON ALL EXPOSED PIPING WHICH PENETRATES EITHER WALLS OR CEILINGS. ALL WALL PENETRATIONS SHALL BE SLEEVED AND CAULKED AND RATED SEPARATIONS FIRESTOPPED.
- E. VICTAULIC FITTINGS AND COUPLINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- F. THE ENDS OF PIPES SHALL BE REAMED FREE FROM BURRS AND KEPT FREE OF SCALE, DIRT AND OIL.
- G. THREADED JOINTS SHALL BE MADE WITH TEFLON LIQUID JOINT COMPOUND APPLIED TO MALE THREADS ONLY.

10. INSTALLATION:

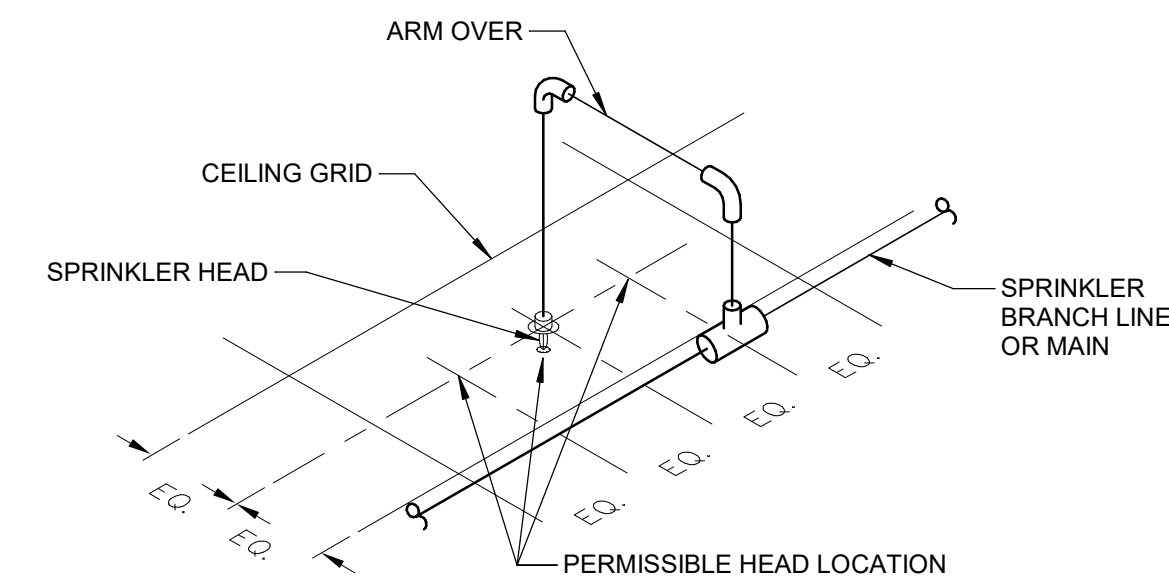
- A. SPRINKLER HEADS OF THE PROPER CONFIGURATION AND NUMBERS ARE TO BE INSTALLED AS REQUIRED IN ACCORDANCE WITH REGULATIONS PERTAINING TO ORDINARY HAZARD OCCUPANCIES WITH SPECIAL ATTENTION TO THE RULES ON OBSTRUCTIONS. COMPLY WITH THE FULL REQUIREMENTS OF THE NFPA, LOCAL FIRE DEPARTMENT, STATE FIRE MARSHAL, FIRE INSURANCE COMPANY, RATING BUREAU AND OTHER AGENCIES HAVING JURISDICTION.
- B. WHERE FLEXIBLE SPRINKLER DROPS ARE USED THE MINIMUM BEND RADIUS SHALL BE 7 INCHES. THE CEILING SUPPORT BRACKETS SHALL BE ATTACHED TO THE MAIN TEE BAR RUNNER IN THE GRID, NOT THE CROSS SUPPORT RAILS, FOLLOW ALL MANUFACTURER'S INSTRUCTIONS.
- C. SPRINKLERS WHICH ARE SO LOCATED AS TO BE SUBJECT TO MECHANICAL INJURY (IN EITHER UPRIGHT OR THE PENDANT POSITION) SHALL BE PROTECTED WITH APPROVED GUARDS.
- D. INSTALL HEADS WITH TEFLON LIQUID JOINT COMPOUND APPLIED TO MALE THREADS ONLY.
- E. SPRINKLER HEADS SHALL BE LOCATED IN CENTER OF CEILING TILES EXCEPT WHERE INDICATED OTHERWISE.

11. TESTING:

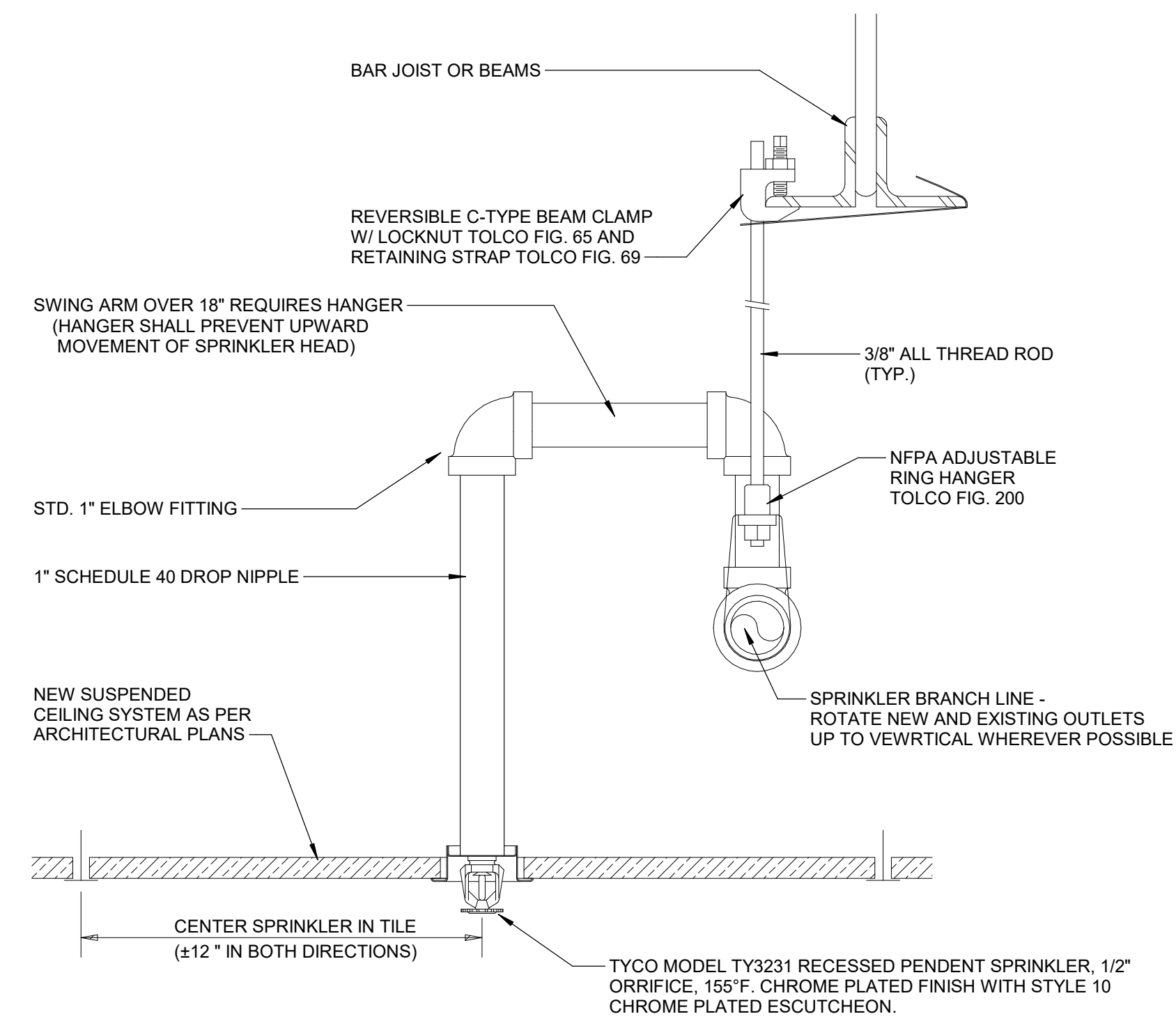
- A. TEST ENTIRE SYSTEM AT 200 PSI FOR TWO (2) HOURS AFTER COMPLETION, IN ACCORDANCE WITH NFPA #13.
- B. FURNISH TO THE RATING BUREAU, THE CERTIFICATE COVERING MATERIALS AND TESTS AS OUTLINED IN NFPA #13.
- C. DURING AND AFTER COMPLETION, THE ENTIRE INSTALLATION SHALL BE SUBJECT TO INSPECTION AND TEST BY THE RATING BUREAU.

12. AS-BUILT DRAWINGS:

- A. PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS REFLECTING AS INSTALLED CONDITIONS OF SYSTEMS WITHIN THIS DISCIPLINE.
- B. DRAWING SHALL BE OF SIMILAR SCALE AS THE CONSTRUCTION DOCUMENTS AND INCLUDE DETAILS AS NECESSARY TO CLEARLY INDICATE THE INSTALLED CONDITION. DRAWINGS SHALL BE BOUND IN A COMPLETE AND CONSECUTIVE SET.
- C. SUPPLEMENTAL SKETCHES AND LOOSE PAPERWORK WILL NOT BE ACCEPTABLE AND WILL BE RETURNED FOR REVISION. THE CONTRACTOR SHALL COMPLY WITH THE ENGINEERS COMMENTS TO PRODUCE A CLEAR AND CONCISE SET OF DRAWINGS.
- D. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC (AUTO-CAD VERSION AS REQUIRED BY THE OWNER) VERSION. NUMBER OF COPIES OF EACH AS REQUESTED BY THE OWNER.
- E. PROVIDE A COMPLETE RECORD OF ALL REVISIONS OF THE ORIGINAL DESIGN WORK, INCLUDE ALL CHANGES FOR AN ACCURATE RECORD, ON REPRODUCTIONS OF THE CONTRACT DRAWINGS OR APPROPRIATE SHOP DRAWINGS. DOCUMENT ALL DEVIATIONS, BETWEEN THE WORK SHOWN AND WORK INSTALLED IN A NEAT AND ACCURATE MANNER. INDICATE THE FOLLOWING INSTALLED CONDITIONS:
 - MAINS AND BRANCHES OF PIPING SYSTEMS, WITH VALVES AND SIGNALING DEVICES LOCATED AND NUMBERED, ITEMS REQUIRED FOR MAINTENANCE LOCATED (I.E. LOW PT. DRAINS, UNIONS, FLOW AND PRESSURE SWITCHES, ETC.). VALVE LOCATION DIAGRAMS, COMPLETE WITH VALVES TAG CHART.
 - DOCUMENT ALL PIPING SIZES AND ELEVATIONS. INCLUDE PIPE LENGTHS AND/OR DIMENSION NOTING POSITION OF ALL SPRINKLER HEADS.
 - EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES.
 - APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS AND ACTUAL EQUIPMENT AND MATERIALS INSTALLED.
- F. ALSO SUBMIT A COMPLETE MAINTENANCE MANUAL OF ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT. INCLUDE MANUFACTURER'S MANUALS AND OPERATING INSTRUCTIONS.



3 SPRINKLER CENTERING DETAIL



2 PENDANT SPRINKLER DETAIL

1/8" = 1'-0"

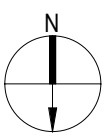
CT INNOVATIONS - THE DISTRICT

470 James Street
New Haven, CT, 06513

CONSULTANTS



KEY PLAN



PROJECT DATA

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| PROJECT NUMBER | 18-000 |
| CURRENT SUBMISSION DATE | 08/29/19 |
| DRAWN | DMR |
| CHECKED | GFL |
| SCALE | As indicated |

HISTORY OF SUBMISSIONS

| No. | Date | Description |
|-----|------|-------------|
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DD SET

SHEET TITLE

FIRE PROTECTION DETAILS AND SPECIFICATIONS

FP2.01.

ABBREVIATIONS

Table of abbreviations for mechanical and plumbing systems, including terms like AVAMP, AC, ACU, AD, etc.

ABBREVIATIONS

Table of abbreviations for electrical and heating systems, including terms like HWRP, HWS, HX, ID, etc.

PLUMBING SYMBOLS

Table of plumbing symbols and their corresponding descriptions, such as W for water service, L for length, and M for water meter assembly.

FITTINGS AND VALVES

Table of fittings and valves symbols, including ball valve, gate valve, butterfly valve, check valve, and various pipe fittings.

PLUMBING GENERAL NOTES

- 26 numbered notes providing detailed instructions and requirements for plumbing installation, including compliance with codes, coordination with other trades, and safety considerations.

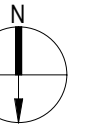
CT INNOVATIONS - THE DISTRICT

470 James Street
New Haven, CT, 06513

CONSULTANTS



KEY PLAN



PROJECT DATA

Table with project metadata including Project Number (18-000), Current Submission Date (08/29/19), and Scale (As indicated).

HISTORY OF SUBMISSIONS

Table with columns for No., Date, and Description, used to track the project's submission history.

DD SET

SHEET TITLE

PLUMBING
ABBREVIATIONS, GENERAL
NOTES AND SYMBOL LIST

P0.01

PLUMBING SPECIFICATIONS

GENERAL CONDITIONS OF THE CONTRACT

IT IS THE INTENT OF THE SPECIFICATIONS AND DRAWINGS TO PROVIDE FOR FINISHED WORK, TESTED AND READY FOR OPERATION.

WORK OF THIS SECTION SHALL BE GOVERNED BY THE CONTRACT DOCUMENTS. PROVIDE MATERIALS, LABOR, EQUIPMENT AND SERVICES NECESSARY TO FURNISH, DELIVER AND INSTALL ALL WORK AS SPECIFIED AND AS REQUIRED BY JOB CONDITIONS. WHERE A CONFLICT EXISTS BETWEEN THESE NOTES, THE DRAWINGS AND THE FOLLOWING SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

ITEMS AND SERVICES NOT SHOWN ON THE DRAWINGS OR STATED IN THE SPECIFICATIONS, BUT REQUIRED TO RENDER THE WORK COMPLETE AND READY FOR OPERATION, SHALL BE PROVIDED WITHOUT ADDITIONAL COST.

DRAWINGS ARE DIAGRAMMATIC AND ARE NOT TO BE SCALED. DRAWINGS INDICATE A GENERAL ARRANGEMENT OF WORK AND ARE NOT TO BE CONSIDERED SUB-CONTRACTOR DOCUMENTS. IT IS THE INTENT OF THESE DOCUMENTS TO INCLUDE THE PROVISION AND INSTALLATION OF ALL NECESSARY WORK AND MATERIALS FOR COMPLETE, OPERATIONAL AND CODE COMPLIANT SYSTEMS BY THE CONTRACTOR.

GENERAL DESIGN CONCEPTS INDICATED MUST BE FOLLOWED OR BETTERED.

THE BID SHALL INCLUDE OFFSETS, ADDITIONAL PIPING, VALVES, EQUIPMENT AND

COMPONENTS AS REQUIRED TO MEET CONSTRUCTION CONDITIONS FOR PROPER OPERATION.

THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED AND PAY ALL APPLICABLE FEES. INCLUDED SHALL BE ANY UTILITY COST ASSOCIATED WITH ANY NEW OR MODIFIED SERVICES.

CONSULT ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SPACE CONDITIONS AND ADDITIONAL REQUIREMENTS.

PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT'S GENERAL CONDITIONS AND IN COORDINATION WITH ALL OTHER TRADES. ALL WORK SHALL BE DONE IN CONFORMANCE AND PROVISIONS OF ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES AND LAWS AS REFERENCED OR STATED, CONNECTICUT CODES AND STANDARDS: 2015 INTERNATIONAL BUILDING CODE 2015 INTERNATIONAL ENERGY CONSERVATION CODE WITH AMENDMENTS 2015 INTERNATIONAL EXISTING BUILDING CODE 2015 INTERNATIONAL MECHANICAL CODE 2015 INTERNATIONAL PLUMBING CODE 2017 NATIONAL ELECTRICAL CODE (NFPA 70) 1CC/ANSI A117.1-2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

WORK SHALL INCLUDE ALL INCIDENTALS, LABOR, MATERIAL, EQUIPMENT, APPLIANCES, SERVICES, HOISTING, SCAFFOLDING, SUPPORTS, TOOLS, CONSUMABLE ITEMS AND ADMINISTRATIVE TASKS/DUTIES REQUIRED TO COMPLETE AND MAKE OPERABLE WORK SHOWN ON THE DRAWINGS OR SPECIFIED HEREIN.

STORE MATERIALS INSIDE AND PROTECTED FROM DEBRIS, WEATHER AND MOISTURE.

SEISMIC RESTRAINTS

THE PROJECT IS IN A SEISMIC ZONE AND ALL WORK SHALL BE INSTALLED, SUPPORTED, AND SEISMICALLY RESTRAINED IN ACCORDANCE WITH CURRENT SEISMIC REQUIREMENTS.

COORDINATION CONTRACTOR IS REQUIRED TO OBTAIN COMPLETE SETS OF THE CONTRACT DOCUMENTS FOR COORDINATION WITH ALL OTHER TRADES.

SHOP DRAWINGS

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER INITIAL REVIEW AND APPROVAL, REVISED IF REQUIRED AND RESUBMITTED AS PER ENGINEER'S COMMENTS PRIOR TO CONSTRUCTION.

ACCEPTANCE OF DEVIATIONS OR SUBSTITUTIONS FROM BASE SPECIFIED ITEMS OR EQUIPMENT SHALL BE AT THE ENGINEERS DISCRETION. ANY CHANGES REQUIRED FOR ACCOMMODATION SHALL BE AT NO ADDITIONAL COST.

OWNER'S MANUAL AND AS BUILT DRAWINGS

UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE AN OWNER'S MANUAL WITH AS-BUILT DRAWINGS REFLECTING INSTALLED CONDITIONS.

THE OWNER'S MANUAL SHALL CONSIST OF ALL DOCUMENTATION PROVIDED AS SHOP DRAWINGS, MANUALS PACKED WITH EQUIPMENT AND COMPLETE PARTS BREAKDOWN WITH PART NUMBERS AND DIAGRAMS. THE OWNER'S MANUALS SHALL BE IN A THREE RING BINDER. PROVIDE NAMES AND PHONE NUMBERS OF SUPPLY HOUSES WHERE PARTS MAY BE PURCHASED.

AS-BUILT DRAWINGS SHALL CONSIST OF FIELD MARK-UPS TO THE CONSTRUCTION DRAWINGS AND INCLUDE ANY ADDITIONAL DETAILS TO CLEARLY REFLECT INSTALLED CONDITIONS. ANY ISSUED OR SUPPLEMENTAL SKETCHES OR DIRECTIVES SHALL BE INCORPORATED INTO THE FINAL CONSTRUCTION MARK-UPS.

CONTRACTOR SHALL MAINTAIN, ON-SITE, A FIELD MARK-UP SET OF DOCUMENTS WHICH SHALL BE KEPT CURRENT WITH ANY CHANGES FROM THE ORIGINAL CONTRACT DOCUMENTS. THESE MARK-UPS ARE TO BE PROVIDED AS AS-BUILT DRAWINGS FOR COMPARISONS.

BASES, HANGERS AND SUPPORTS

THE CONTRACTOR SHALL PROVIDE, OR CAUSE TO BE PROVIDED BY ANOTHER CONTRACTOR, ALL REQUIRED BASES AND SUPPORTS FOR PIPING AND EQUIPMENT PROVIDED UNDER THESE SPECIFICATIONS.

PROVIDE ADJUSTABLE CLEVIS HANGERS FOR ALL SINGLE RUN PIPING. WHERE REQUIRED, OVERSIZE TO ACCOMMODATE INSULATION TO PASS THROUGH. PROVIDE INSULATION SHIELDS, WHERE POSSIBLE, GROUP PIPING TO ALLOW TRAPEZE HANGERS TO BE USED.

PROVIDE ALL ANCHORS, INSERTS AND BEAM CLAMPS REQUIRED FOR HANGERS AND SUPPORTS. IF ADDITIONAL STRUCTURAL MEMBERS OR SUPPORTS ARE REQUIRED, THE CONTRACTOR IS TO COORDINATE WITH THE STRUCTURAL CONTRACTOR FOR PROVISION OF THESE MEMBERS. ALL PIPING AND EQUIPMENT IS TO BE SECURELY FASTENED TO THE BUILDING STRUCTURE IN AN ACCEPTABLE MANNER.

ALL PIPING PASSING THROUGH WALLS AND FLOORS SHALL BE SLEEVED. THE SLEEVES SHALL HAVE AN INSIDE DIAMETER 1" LARGER THAN THE PIPE AND INSULATION, IF INSULATED. INSULATION SHALL PASS CONTINUOUS THROUGH THE SLEEVE.

PIPE SEALS AND FIRE-STOPS

SEAL ALL PIPING PASSING THROUGH FIRE AND/OR SMOKE RATED PARTITIONS, WALLS AND FLOORS WITH A UL LISTED, APPROVED AND TESTED FIRE AND/OR SMOKE SEALING MATERIAL EQUIVALENT TO THE RATING OF THE WALL, PARTITION OR FLOOR. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR COMPATIBILITY WITH WALL AND FLOOR CONSTRUCTION.

FOR INTERIOR PARTITIONS, WALLS AND FLOORS, SLEEVES SIZED TO ALLOW INSULATION TO PASS THROUGH CONTINUOUS WITH A MAXIMUM 1" ANNULAR SPACE BETWEEN THE INSULATION AND SLEEVE. SLEEVES TO BE CUT SMOOTH AND INSTALLED FLUSH WITH FINISHED WALLS AND 2" ABOVE FINISHED FLOORS. FILL THE ANNULAR SPACE WITH UL SEALING MATERIAL.

EQUIPMENT ACCESSIBILITY

LOCATE ALL EQUIPMENT WHICH MUST BE SERVICED, OPERATED OR MAINTAINED IN FULLY ACCESSIBLE POSITION WITH ADEQUATE CLEARANCES TO PROVIDE SERVICE OR REPAIR.

ACCESS DOORS OR PANELS IN WALLS, CEILINGS OR FLOORS SHALL BE FIELD COORDINATED AND INSTALLED FOR ACCESS TO CONCEALED VALVES, EQUIPMENT OR DEVICES.

CLEANING AND PROTECTION AGAINST FOREIGN MATTER

THE JOBSITE SHALL BE KEPT CLEAN AT ALL TIMES. CAP EXPOSED PIPING AND COVER FLOOR DRAINS TO INSURE ADEQUATE PROTECTION AGAINST THE ENTRANCE OF FOREIGN MATTER.

AT COMPLETION OF THE PROJECT, ALL EQUIPMENT, FIXTURES, ETC. SHALL BE CLEANED.

OPERATING INSTRUCTIONS

UPON THE COMPLETION OF ALL WORK, TESTING AND ADJUSTING THE CONTRACTOR SHALL FURNISH PERSONNEL TO INSTRUCT THE OWNER'S REPRESENTATIVES IN THE OPERATION, ADJUSTMENT AND MAINTENANCE OF THE EQUIPMENT AND SYSTEMS FURNISHED.

GUARANTEES

IN ADDITION TO THE CONTRACTOR'S GUARANTEE, PROVIDE ALL APPLICABLE EXTENDED GUARANTEES FOR EQUIPMENT.

PLUMBING PIPING INSULATION

PROVIDE 1" GLASS FIBER INSULATION FOR ALL NEW COPPER PIPING (HOT AND COLD WATER), INCLUDES INSULATION FOR FITTINGS AND VALVES. INSULATION TO BE AS MANUFACTURED BY KNAUF, MANVILLE, OWENS-CORNING OR CERTAIN-TEED.

INSULATION TO HAVE A "K" VALUE OF 0.24 AT 75°F, FLAME SPREAD/SMOKE OF 5/50, MAX. 850°F RATING, VAPOR BARRIER WHITE KRAFT PAPER WITH GLASS FIBER YARN BONDED TO ALUMINIZED FILM.

AT ALL FITTINGS AND VALVES PROVIDE PRE-MOLDED PVC JACKET BY ZESTON.

BEFORE INSTALLING INSULATION, ALL REQUIRED PIPING IS TO BE TESTED AND APPROVED.

INSULATION IS TO PASS CONTINUOUSLY THROUGH HANGERS, WALLS, SLEEVES AND OTHER PIPE PENETRATIONS.

PLUMBING PIPING

PIPING MATERIAL SHALL BE AS FOLLOWS:

SANITARY/WASTE PIPING ABOVE AND BELOW FLOOR SLAB - CAST IRON, HUBLESS, NEOPRENE GASKET, STAINLESS STEEL HEAVY DUTY CLAMP AND SHIELD COUPLING, CISPI 301.

VENT PIPING ABOVE AND BELOW FLOOR SLAB - CAST IRON, HUBLESS, NEOPRENE GASKET, STAINLESS STEEL HEAVY DUTY CLAMP AND SHIELD COUPLING, CISPI 301.

WATER PIPING - COPPER, TYPE L, ASTM B88, SOLDER OR PRESS CONNECTIONS.

BALL VALVES SHALL BE BRONZE, TWO PIECE, FULL PORT, EXTENDED LEVER, HANDLE FOR INSULATION, CLASS 150-400 PSI WOG, AS MANUFACTURED BY MILWAUKEE, NIBCO OR APOLLO.

NO PIPING SHALL BE COVERED UNTIL TESTED AND APPROVED BY THE AUTHORITIES HAVING JURISDICTION.

INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS OR CONNECTED EQUIPMENT.

CONCEALED PIPING AND ACCESSORIES SHALL BE ARRANGED TO USE THE MINIMUM AMOUNT OF ACCESS DOORS AND PANELS.

PIPING SHALL BE RUN CONCEALED IN FURRED SPACES, CHASES, WALLS, ETC. CONTRACTOR SHALL OBTAIN PERMISSION TO RUN EXPOSED PIPING.

PROVIDE ISOLATION AND SHUT-OFF VALVES AT ALL BRANCH LINES AND EQUIPMENT.

PROVIDE LISTED AND APPROVED DIELECTRIC FITTINGS WHEN JOINING DISSIMILAR METALS.

RUN ALL SANITARY AND WASTE PIPING AT A MINIMUM OF 1/8" PER FOOT FOR PIPING. SLOPE VENT PIPING TO DRAIN.

PIPE HANGERS SHALL BE PLACED ADJACENT TO MOTOR DRIVEN EQUIPMENT. HANGERS AND SUPPORTS SHALL BE AS FOLLOWS:

COPPER PIPING

1/2" TO 1-1/4" AT MAXIMUM 6'-0" SPACING 1-1/2" TO 3" AT MAXIMUM 10'-0" SPACING

CAST IRON PIPING

1-1/2" TO 2" AT MAXIMUM 10'-0" SPACING 2-1/2" AND ABOVE AT MAXIMUM 5'-0" SPACING

WATER PIPING IS TO BE FLUSHED AND DISINFECTED IN ACCORDANCE WITH LOCAL AND STATE HEALTH REGULATIONS. AFTER FLUSHING AND DISINFECTING, THE WATER IS TO BE TESTED BY THE CONTRACTOR THROUGH AN INDEPENDENT LAB WITH A WRITTEN REPORT.

ALL NEW WATER, SANITARY, WASTE, AND VENT PIPING SHALL BE PRESSURE TESTED AS FOLLOWS:

SANITARY, WASTE, AND VENT PIPING - HYDROSTATIC TEST AT 10 FT HEAD FOR A MINIMUM 4 HOURS. SUBMIT WRITTEN/SIGNED TEST RESULTS.

WATER PIPING - HYDROSTATIC TEST AT 125 PSI OR 1-1/2 TIMES OPERATING PRESSURE (WHICHEVER IS GREATER) FOR A MINIMUM 4 HOURS WITH MAXIMUM LOSS OF 2 PSI. SUBMIT WRITTEN/SIGNED TEST RESULTS. AIR TESTING WILL NOT BE ACCEPTABLE.

PLUMBING PIPING SPECIALTIES

CLEANOUTS IN INTERIOR FINISHED FLOORS SHALL HAVE A CAST IRON BODY WITH ANCHOR FLANGE, THREADED TOP ASSEMBLY AND ROUND GASKETED SCORED COVER. FOR FINISHED FLOORS PROVIDE DEPRESSED COVER TO ACCEPT FLOOR FINISH.

WATER HAMMER ARRESTORS SHALL BE STAINLESS STEEL CONSTRUCTION, BELLOW TYPE, PRECHARGED. AIR CHAMBERS ARE NOT ACCEPTABLE. INSTALL WATER HAMMER ARRESTORS AT ALL QUICK CLOSING VALVES, ON HOT AND/OR COLD WATER SUPPLIES TO NEW INDIVIDUAL FIXTURES OR IN BANKS OF FIXTURES.

PLUMBING EQUIPMENT AND FIXTURES

ALL PLUMBING EQUIPMENT AND FIXTURES SHALL BE NEW, COMPLETE WITH ALL TRIM AS SPECIFIED. APPROVAL CERTIFICATION BY MASSACHUSETTS IS REQUIRED.

FOR ALL EQUIPMENT AND FIXTURES, INSTALL AS PER MANUFACTURER'S INSTRUCTIONS. AS REQUIRED BY CODE, AND IN COMPLIANCE WITH CONDITIONS FOR CERTIFICATION (IF ANY), RETAIN ALL INFORMATION, MANUALS AND PARTS DIAGRAMS PACKAGED WITH THE UNITS.

COORDINATE ALL RELATED ELECTRICAL WORK AND REQUIRED CONNECTIONS TO ACHIEVE AN OPERATIONAL SYSTEM. VERIFY THAT ELECTRICAL POWER HAS PROPER CHARACTERISTICS.

ALL EQUIPMENT SHALL BE UL TESTED AND APPROVED AND IF APPLICABLE SHALL HAVE NSF CERTIFICATION.

PLUMBING FIXTURES SHALL BE INSTALLED WITH TRIM, INCLUDING BUT NOT LIMITED TO, FAUCETS, CARRIERS, WATER SUPPLIES, SUPPLY STOPS, TRAPS, TAILPIECES, HARDWARE, HANGERS/SUPPORTS, AND FASTENING DEVICES.

PLUMBING FIXTURES AND TRIM SHALL BE OF THE MANUFACTURER LISTED ON THE DRAWINGS OR AN APPROVED EQUAL MEETING THE OPERATIONAL CHARACTERISTICS, FUNCTION, SIMILAR APPEARANCE AND QUALITY OF THE SPECIFIED ITEMS.

FOR ALL EXPOSED PIPING TO FIXTURES, PROVIDE CHROME PLATED PIPES, ESCUTCHEONS AT WALLS, SUPPLY TUBES AND SUPPLY STOPS. DRAIN PIPING SHALL BE MINIMUM 17 GA, CHROME PLATED CAST BRASS, P-TRAPS SHALL HAVE CLEANOUT PLUGS.

SEAL FIXTURES TO WALLS AND FLOOR WITH APPROVED SILICONE SEALANT, COLOR TO MATCH FIXTURE COLOR OR CLEAR.

UPON COMPLETION OF INSTALLATION OF PLUMBING EQUIPMENT AND FIXTURES, TEST TO DEMONSTRATE CAPABILITY AND COMPLIANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND CODES. FOR ALL EQUIPMENT, REPAIR OR REPLACE ANY MALFUNCTIONING EQUIPMENT OR FIXTURES AND RETEST.

ADJUST WATER PRESSURES THROUGH VALVES OR STOPS TO OBTAIN PROPER FLOW RATES AND PRESSURES REQUIRED.

UPON COMPLETION OF INSTALLATION OF EQUIPMENT OR FIXTURES, THOROUGHLY CLEAN ALL EXPOSED SURFACES, TRIM AND PIPING, FLUSH STRAINERS AND VERIFY FINAL OPERATION.

PROVIDE ALL WARRANTIES AND GUARANTEES TO THE OWNER WITH ALL NAMES, ESTABLISHED DATES, AND ANY ADDITIONAL INFORMATION REQUIRED FOR ENFORCEMENT.

NATURAL GAS PIPING SYSTEM

UNLESS OTHERWISE NOTED ON THE PLANS, GAS PIPING SHALL BE AS FOLLOWS:

GAS PIPING TO BE SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON FITTINGS, ASTM A53.

PIPE THREADS TO BE TAPERED AND PIPING SHALL SLOPE TOWARDS EQUIPMENT WITH DRIPS AT LOW POINTS AND EQUIPMENT. ASME B1.20.1

ALL PIPING SHALL BE TESTED IN COMPLIANCE WITH THE NEW YORK STATE GAS CODE AND NFPA 54 WITH ALL DOCUMENTATION OF TESTS SIGNED BY CONTRACTOR. TEST WITH COMPRESSED AIR OR OTHER INERT GAS.

SLOPE PIPING UPWARDS AT A MINIMUM OF 1/4" IN 15'-0" HORIZONTAL PIPE RUN.

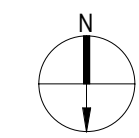
HANGERS AND SUPPORT SPACING SHALL BE AS FOLLOWS: ALL PIPE SIZES AT MAXIMUM 6'-0" SPACING

GAS CONNECTORS TO EQUIPMENT SHALL BE MADE WITH CCST OR OTHER CSA CERTIFIED/UL LISTED FLEXIBLE CONNECTORS.

ALL PIPING UP TO 2" SHALL BE THREADED, 2-1/2" AND LARGER SHALL BE WELDED.

VALVING SHALL BE BALL VALVES (BRONZE BODY, BRASS STEM PTFE SEAT) FOR PIPING UP TO 2" AND IRON BODY GAS COCKS (BRASS PLUG AND WASHER) FOR PIPING 2-1/2" AND LARGER. CSA CERTIFIED/UL LISTED.

ALL NEW GAS PIPING SHALL BE PAINTED WITH PRIMER AND TWO COATS YELLOW ENAMEL WITH PIPE LABELS SPACED AT MAXIMUM 6'-0" INTERVALS. LABELS TO INDICATE NATURAL GAS AND GAS PRESSURE.



PROJECT DATA

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| PROJECT NUMBER | 18-000 |
| CURRENT SUBMISSION DATE | 08/29/19 |
| DRAWN | FSM |
| CHECKED | RHR |
| SCALE | 1/8" = 1'-0" |

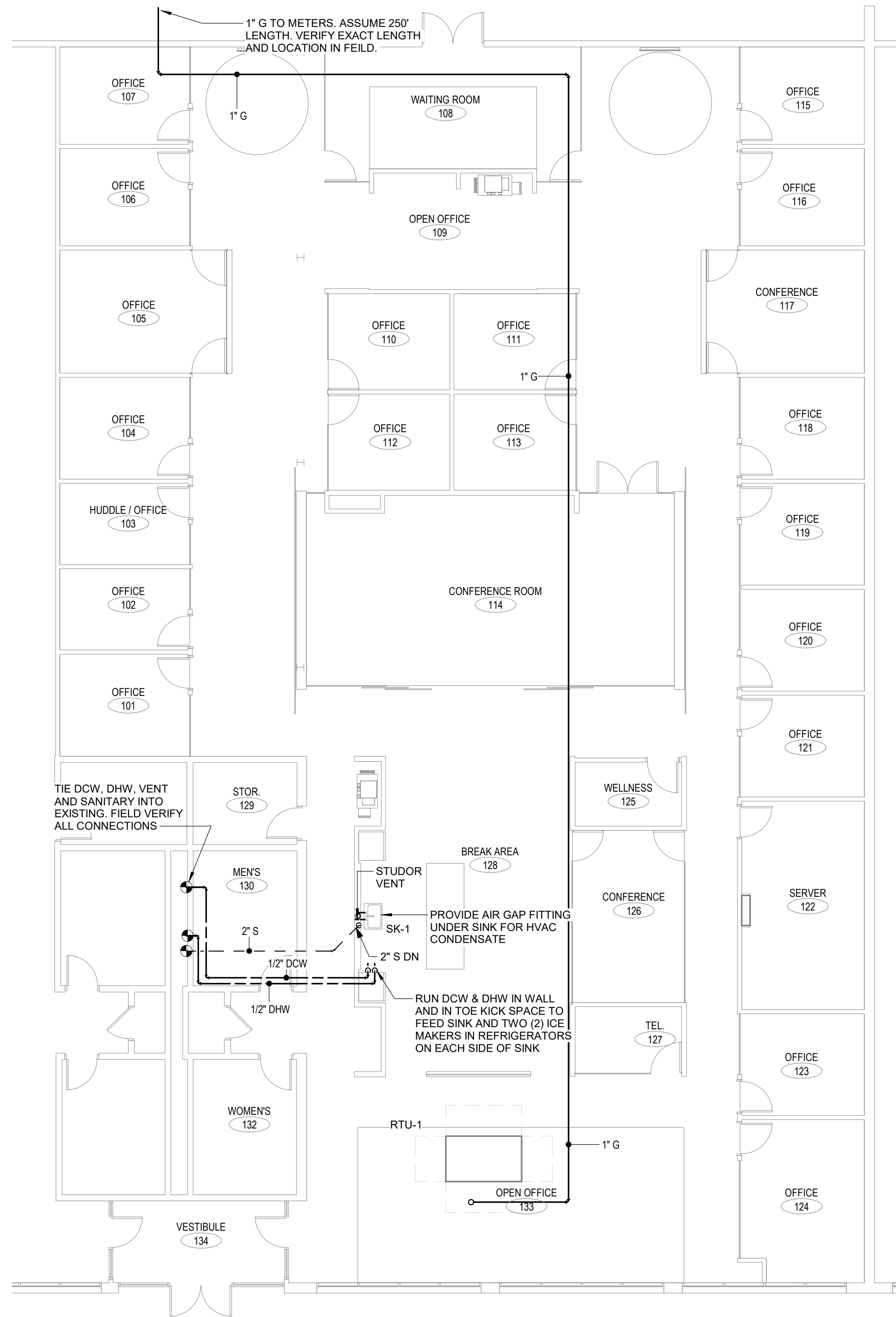
HISTORY OF SUBMISSIONS

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SHEET TITLE

PLUMBING SPECIFICATION



1 PLUMBING FIRST FLOOR PLAN
1/8" = 1'-0"

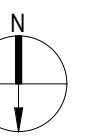
| PLUMBING FIXTURE SCHEDULE | | | | | | | | | |
|--|---------|---------------|--------------|------------------|------|------|-----|--------|---|
| GENERAL NOTES: | | | | | | | | | |
| PIPE SIZES SHOWN ARE FOR SUPPLY AND DRAINAGE ONLY. PROVIDE SUPPLIES WITH SCREWDRIVER STOPS, WALL ESCUTCHEON, 17-GAUGE SEMI-CAST "P" TRAPS WITH CLEANOUT PLUG, PLUMBING FIXTURE SUPPORTS AND NECESSARY FITTINGS TO MAKE FINAL CONNECTION. REFER TO SPECIFICATION FOR EQUIVALENTS. NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS OF PLUMBING FIXTURES. CLEARANCE BELOW SINKS AND LAVATORIES AND OFFSET DRAIN LOCATIONS. OFFSET DRAINS SHALL BE OFFSET LEFT REAR OR OFFSET RIGHT REAR. | | | | | | | | | |
| TYPE | FIXTURE | ACCESSIBILITY | MANUFACTURER | MODEL | COLD | HOT | SAN | VENT | REMARKS |
| SK-1 | SINK | | KOHLER | VAULT 25"X22"X6" | 1/2" | 1/2" | 2" | 1 1/2" | PROVIDE KOHLER FAUCET MODEL K-596 POLISHED CHROME. COORDINATE MOUNTING WITH ARCHITECT |

CT INNOVATIONS - THE DISTRICT
470 James Street
New Haven, CT, 06513

CONSULTANTS



KEY PLAN



PROJECT DATA

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SHEET TITLE

FIRST FLOOR PLUMBING PLAN

ABBREVIATIONS

| | |
|----------|---|
| AC | AIR COMPRESSOR |
| AD | ACCESS DOOR |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| AHU | AIR HANDLING UNIT |
| AMB | AMBIENT |
| APPROX | APPROXIMATE |
| AS | AIR SEPERATOR |
| ATC | AUTOMATIC TEMPERATURE CONTROL |
| AVG | AVERAGE |
| AWT | AVERAGE WATER TEMPERATURE |
| BAS | BUILDING AUTOMATION SYSTEM |
| BDD | BACK DRAFT DAMPER |
| BFW | BOILER FEED WATER |
| BHP | BRAKE HORSEPOWER |
| BMS | BULIDING MANAGEMENT SYSTEM |
| BTUH | BRITISH THERMAL UNITS PER HOUR |
| CC | COOLING COIL |
| CD | CONDENSATE DRAIN |
| CDR | CONDENSER WATER RETURN |
| CDS | CONDENSER WATER SUPPLY |
| CFM | CUBIC FEET PER MINUTE |
| CFP | CHEMICAL FEED PUMPS |
| CHWR | CHILLED WATER RETURN |
| CHWS | CHILLED WATER SUPPLY |
| CLG | CEILING |
| CLNOUT | CLEANOUT |
| CO2 | CARBON DIOXIDE |
| COMP | COMPRESSOR |
| COND | CONDENSER |
| CONV | CONVECTOR |
| CP | CONDENSATE PUMP |
| CPU | CENTRAL PROCESSING UNIT |
| CT | COOLING TOWER |
| CU | CONDENSING UNIT |
| CU FT | CUBIC FEET |
| CUH | CABINET UNIT HEATER |
| CV | COEFFICIENT, VALVE FLOW |
| CV | CONSTANT VOLUME |
| D | DEPTH |
| DB | DRY BULB TEMPERATURE |
| dB | DECIBEL |
| DEG or ° | DEGREE |
| DIA or Ø | DIAMETER |
| DN | DOWN |
| DP | DIFFERENTIAL PRESSURE |
| DWG | DRAWING |
| DX | DIRECT EXPANSION |
| EA | EXHAUST AIR |
| EAT | ENTERING AIR TEMPERATURE |
| EBB | ELECTRIC BASEBOARD RADIATION |
| EDR | EQUIVALENT DIRECT RADIATION |
| EF | EXHAUST FAN |
| EFF | EFFICIENCY |
| ELEC | ELECTRICAL |
| ESP | EXTERNAL STATIC PRESSURE |
| ET | EXPANSION TANK |
| EUH | ELECTRIC UNIT HEATER |
| EVAP | EVAPORATOR |
| EWB | ENTERING WET BULB TEMPERATURE |
| EWT | ENTERING WATER TEMPERATURE |
| F | FAHRENHEIT |
| FCU | FAN COIL UNIT |
| FD | FIRE DAMPER |
| FD/SD | FIRE DAMPER WITH INTEGRAL SECURITY BARS |
| FM | FLOW METER |
| FOB | FLAT ON BOTTOM |
| FOF | FUEL OIL FILL |
| FOR | FUEL OIL RETURN |
| FOS | FUEL OIL SUPPLY |
| FOT | FLAT ON TOP |
| FOV | FUEL OIL VENT |
| FPM | FEET PER MINUTE |
| FPS | FEET PER SECOND |
| FS | FLOOR SINK |
| FSD | FIRE/SMOKE DAMPER |
| FT | FOOT OR FEET |
| G | GAS |
| GA | GAUGE |
| GAL | GALLONS |
| GND | GROUND |
| GPH | GALLONS PER HOUR |
| GPM | GALLONS PER MINUTE |
| GR | GRAINS |
| H | HEIGHT |
| H/C | HEATING/COOLING |
| HC | HEATING COIL |
| HD | HEAD |
| HP | HORSEPOWER |
| HPC | HIGH PRESSURE CONDENSATE |
| HPG | HIGH PRESSURE GAS |
| HPS | HIGH PRESSURE STEAM |
| HR | HOUR(S) |
| HT | HEAT |
| HTHW | HIGH TEMPERATURE HOT WATER |

ABBREVIATIONS

| | |
|----------|-----------------------------------|
| HTHW | HIGH TEMPERATURE HOT WATER RETURN |
| HTHWS | HIGH TEMPERATURE HOT WATER SUPPLY |
| HTR | HEATER |
| HUM | HUMIDIFIER |
| HV | HEATING/VENTILATION UNIT |
| HW | HOT WATER |
| HWR | HOT WATER RETURN |
| HWRP | HOT WATER RETURN PUMP |
| HWRR | HOT WATER REVERSE RETURN |
| HWS | HOT WATER SUPPLY |
| HX | HEAT EXCHANGER |
| HZ | FREQUENCY (CYC. PER SEC.) |
| ID | INSIDE DIAMETER |
| IN | INCHES |
| IN WG | INCHES OF WATER, GAUGE (PRESS.) |
| IW | INDIRECT WASTE |
| KEF | KITCHEN EXHAUST FAN |
| KW | KILOWATT |
| L | LENGTH |
| LA | LABORATORY COMPRESSED AIR |
| LAV | LEAVING AIR TEMPERATURE |
| LAVATORY | LAVATORY |
| LBS/HR | POUNDS PER HOUR |
| LF | LINEAR FEET |
| LPC | LOW PRESSURE CONDENSATE |
| LPS | LOW PRESSURE STEAM |
| LV | LABORATORY VACUUM |
| LWT | LEAVING WATER TEMPERATURE |
| MA | MIXED AIR |
| MAU | MAKE-UP AIR UNIT |
| MAX | MAXIMUM |
| MBH | BTU PER HOUR (THOUSAND) |
| MD | MOTORIZED DAMPER |
| MECH | MECHANICAL |
| MFR | MANUFACTURER |
| MH | METAL HALIDE |
| MIN | MINIMUM |
| MPC | MEDIUM PRESSURE CONDENSATE |
| MPS | MEDIUM PRESSURE STEAM |
| NZ | NITROGEN |
| NZO | NITROUS OXIDE |
| N.C. | NORMALLY CLOSED |
| N.O. | NORMALLY OPEN |
| N.T.S. | NOT TO SCALE |
| N/A | NOT APPLICABLE |
| NEC | NATIONAL ELECTRICAL CODE |
| NIC | NOT IN CONTRACT |
| OA | OUTSIDE AIR |
| PCD | PUMPED CONDENSATE DRAIN (COOLING) |
| PCR | PUMPED CONDENSATE RETURN (STEAM) |
| PD | PRESSURE DROP |
| PH or Ø | PHASE |
| PRV | PRESSURE REDUCING VALVE |
| PSI | POUNDS PER SQUARE INCH |
| PT | POTENTIAL TRANSFORMER |
| PVC | POLYVINYL CHLORIDE |
| RA | RETURN AIR |
| RG | REFRIGERANT GAS |
| RH | RELATIVE HUMIDITY |
| RHC | REHEAT COIL |
| RHG | REFRIGERANT HOT GAS |
| RL | REFRIGERANT LIQUID |
| RM | ROOM |
| RPD | REDUCED PRESSURE DEVICE |
| RPM | REVOLUTIONS PER MINUTE |
| RTU | ROOFTOP UNIT |
| S&R | SUPPLY AND RETURN |
| SA | SUPPLY AIR |
| SCP | STEAM CONDENSATE PUMP |
| SD | SMOKE DAMPER |
| SP | STATIC PRESSURE |
| SPEC | SPECIFICATION |
| SQ | SQUARE |
| SS | STAINLESS STEEL |
| STD | STANDARD |
| TSTAT | THERMOSTAT |
| TD | TEMPERATURE DIFFERENCE |
| TEMP | TEMPERATURE |
| TSP | TOTAL STATIC PRESSURE |
| TYP | TYPICAL |
| UH | UNIT HEATER |
| V | VOLTAGE |
| VAC | VACUUM |
| VAV | VARIABLE AIR VOLUME |
| VD | VOLUME DAMPER |
| VEL | VELOCITY |
| VFD | VARIABLE FREQUENCY DRIVE |
| VIF | VERIFY IN FIELD |
| VOL | VOLUME |
| W | WATT |
| W | WIDTH |
| WB | WET BULB TEMPERATURE |
| WP | WEATHERPROOF |
| WPD | WATER PRESSURE DROP |
| WWM | WELDED WIRE MESH |

HVAC SYMBOLS

| | |
|--|---|
| | RECTANGULAR, FLAT OVAL OR ROUND AIR DUCT |
| | AIR DUCT WITH ACOUSTICAL LINING |
| | SUPPLY AIR DUCT UP |
| | SUPPLY AIR DUCT DOWN |
| | RETURN AIR DUCT UP |
| | RETURN AIR DUCT DOWN |
| | EXHAUST AIR DUCT UP |
| | EXHAUST AIR DUCT DOWN |
| | TURNING VANES |
| | ACCESS DOOR |
| | FLEXIBLE DUCT CONNECTION |
| | CEILING SUPPLY DIFFUSERS |
| | CEILING RETURN / EXHAUST GRILLE |
| | HARD DUCTED DIFFUSER OR GRILLE WITH FULL SIZE BOTTOM TAKE-OFF |
| | DIRECTION OF SUPPLY OR OUTDOOR AIRFLOW |
| | DIRECTION OF RETURN OR EXHAUST AIRFLOW |
| | DOOR UNDERCUT |
| | BACK DRAFT DAMPER |
| | VOLUME DAMPER |
| | FIRE DAMPER |
| | FIRE DAMPER WITH INTEGRAL SECURITY BARS |
| | FIRE/SMOKE DAMPER |
| | SMOKE DAMPER SYSTEM AND ASSOCIATED DEVICES PER SPECIFICATIONS AND MEP DETAILS |
| | MOTORIZED DAMPER |
| | HUMIDIFIER TUBE/PANEL |
| | SUPPLY PIPING, REFER TO ABBREVIATION LIST FOR DESIGNATION (XXX) |
| | RETURN PIPING, REFER TO ABBREVIATION LIST FOR DESIGNATION (XXX) |
| | DUCT SMOKE DETECTOR WITH REMOTE INDICATING LIGHT AND TEST SWITCH |
| | DUCT STATIC PRESSURE SENSOR |
| | DIFFERENTIAL PRESSURE SENSOR |
| | VARIABLE FREQUENCY DRIVE |
| | AIR FLOW STATION |
| | DUCT SOUND ATTENUATOR |
| | ROOM THERMOSTAT |
| | ROOM TEMPERATURE SENSOR |
| | CARBON MONOXIDE SENSOR |
| | CARBON DIOXIDE SENSOR |
| | HUMIDISTAT |
| | FINNED TUBE RADIATION |
| | FLOW METER |
| | VRF REMOTE CONTROL |

FITTINGS AND VALVES

| | |
|-------------|--|
| | BACKFLOW PREVENTOR |
| | STRAINER OR STRAINER WITH BLOW-DOWN VALVE HOSE END, CAP AND CHAIN |
| | PIPE ELBOW UP OR PIPE TEE UP |
| | PIPE ELBOW DOWN |
| | PIPE TEE DOWN |
| | TAKEOFF FROM BOTTOM OF MAIN PIPE |
| | TAKEOFF FROM TOP OF MAIN PIPE |
| | IN-LINE EXPANSION COMPENSATOR |
| | PIPE ANCHOR |
| | COMPANION FLANGE |
| | PIPE CAP OR CAPPED END OF PIPE |
| | UNION |
| | PIPE GUIDES |
| | PUMP |
| | DIRECTION OF FLUID FLOW |
| | VALVE ON RISER |
| | VALVE ON DROP |
| | AIR VENT |
| | FLOW SENSOR |
| | 2-WAY CONTROL VALVE |
| | 3-WAY CONTROL VALVE |
| | BALL VALVE |
| | CALIBRATED BALANCING VALVE |
| | SHUT-OFF VALVE (SEE SPECIFICATIONS FOR APPLICATION TYPE) |
| | BUTTERFLY VALVE |
| | CHECK VALVE |
| | GLOBE VALVE |
| | GATE VALVE |
| | PRESSURE REDUCING VALVE |
| | TRIPLE DUTY VALVE |
| | OS&Y VALVE |
| | DRAIN VALVE WITH HOSE END, CAP & CHAIN OR WALL HYDRANT / HOSE BIBB |
| | MOTORIZED BUTTERFLY VALVE |
| | PRESSURE RELIEF SAFETY VALVE |
| | AQUASTAT |
| | TEMPERATURE SENSOR WITH SEPARABLE SOCKET IN IMMERSIBLE WELL |
| | TEMPERATURE GAUGE WITH SEPARABLE SOCKET IN IMMERSIBLE WELL |
| | THERMOMETER WITH SEPARABLE SOCKET IN IMMERSIBLE WELL |
| | PRESSURE GAUGE |
| | PRESSURE SENSOR WITH SYPHON (STEAM) |
| | FLEXIBLE CONNECTOR |
| DUCT SIZING | |
| 20x12 | RECTANGULAR DUCT |
| 20/12 | FLAT OVAL DUCT |
| 20"Ø | ROUND DUCT |

HVAC GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH CURRENT APPLICABLE CODES, ORDINANCES, THE REGULATORY AGENCIES HAVING JURISDICTION AND THE SPECIFICATIONS. THE SPECIFICATIONS MAY EXCEED THE REQUIREMENTS OF THE CODE, IN WHICH CASE, THE SPECIFICATION MUST BE FOLLOWED.
- THE INTENT OF THESE DOCUMENTS IS FOR THE MEP TRADES TO FURNISH AND INSTALL COMPLETE MECHANICAL AND ELECTRICAL SYSTEMS. THE SPECIFIED HVAC SYSTEM SHALL BE COMPLETE IN ALL RESPECTS: OPERATIONAL, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER.
- THE TRADES SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS BEFORE SUBMITTING A BID. INFORMATION IS PROVIDED ON THE VARIOUS DRAWINGS, SCHEDULES, SPECIFICATIONS AND ALL OF THE VARIOUS DOCUMENTS IN THE BIDDING PACKAGE. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND FORM A TOTAL PROJECT DESIGN AND INFORMATION SOURCE FOR CONSTRUCTION PURPOSES.
- THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. COORDINATE LOCATIONS OF EQUIPMENT WITH OTHER TRADES BEFORE AND DURING CONSTRUCTION. ANY MODIFICATION TO THE EQUIPMENT LAYOUT, REQUIRED FOR INSTALLATION, IS TO BE PERFORMED UNDER THE CONTRACT AGREEMENT, AT NO ADDITIONAL COST. REFER TOP DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT AND PIPING. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EQUIPMENT AND PIPING INSTALLATION WITH ALL THE TRADES BEFORE COMMENCING WORK.
- EQUIPMENT SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS. WHEN EQUIPMENT MUST BE LOCATED ABOVE AN INACCESSIBLE CEILING (GYP BOARD OR EQUIVALENT), OR BEHIND A WALL, AN APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. IF AN ACCESS DOOR IS REQUIRED, IT SHALL BE OF A RATING APPROPRIATE FOR THE WALL/CEILING IN WHICH IT IS TO BE INSTALLED. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF ACCESS PANELS FOR ALL VALVES AND DEVICES, REQUIRING ACCESS, WITH THE ARCHITECT, PRIOR TO INSTALLATION OF SUCH DEVICES OR OTHER APPURTENANCES.
- WHERE A CONFLICT OCCURS BETWEEN THE DOCUMENTS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. CARRY AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEM(S).
- THIS CONTRACT SHALL INCLUDE ALL THE NECESSARY PIPING, FITTINGS, TRANSITIONS ETC. AS REQUIRED TO INSTALL PIPING AND EQUIPMENT, AND TO AVOID ANY CONFLICTS WITH OTHER TRADES AND THE BUILDING STRUCTURE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS HE MAKES AS A RESULT OF HIS FAILURE TO COORDINATE WITH OTHER TRADES OR BECOME FULLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES.
- DO NOT INSTALL ANY PIPING OVER ELECTRICAL PANELS, TRANSFORMERS, SPECIAL EQUIPMENT, OR THROUGH ELECTRICAL ROOMS, DATA ROOMS, ELEVATOR MACHINE ROOM, STAIRWELL OR STAIRWELL WALLS THAT ARE NOT ASSOCIATED WITH OR SERVE THE RESPECTIVE ROOMS. COORDINATE THE LOCATION OF ELECTRICAL EQUIPMENT IN THE FIELD AND ADJUST AS NECESSARY.
- INSTALL SMOKE DETECTORS IN BOTH SUPPLY & RETURN AIR DUCTS FOR AIR HANDLING EQUIPMENT 2,000 CFM AND GREATER.
- PROVIDE SMOKE DAMPERS IN BOTH SUPPLY & RETURN AIR DUCTS FOR AIR HANDLING EQUIPMENT 15,000 CFM AND GREATER.
- INSTALL SMOKE DAMPERS AND SMOKE DETECTORS AT DUCT PENETRATIONS OF SMOKE-BARRIERS, AND AT ELEVATOR SHAFT VENTS PER CODE REQUIREMENTS.
- PROVIDE FIRE DAMPERS AT DUCT PENETRATIONS OF FIRE-RATED CONSTRUCTION, INCLUDING WALLS, SHAFTS AND FLOOR PENETRATIONS. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- PROVIDE AN AUTOMATIC TEMPERATURE CONTROL SYSTEM COMPLETE IN ALL REGARDS. ALL ZONES, VAV'S AND SYSTEM SHALL BE THERMOSTATICALLY CONTROLLED. REVIEW THE PLANS AND SPECIFICATIONS OF ALL MEP TRADES FOR A COMPLETE SCOPE OF THE WORK.
- PIPING SHALL BE SUPPORTED FROM STRUCTURE ABOVE. TO MAXIMIZE HEAD ROOM, INSTALL PIPING TIGHT TO BOTTOM OF BEAMS WHEN RUNNING PERPENDICULAR TO BEAM; INSTALL PIPING TIGHT TO FLOOR SLAB WHEN RUNNING PARALLEL TO BEAM; PROVIDE ALL NECESSARY FITTINGS AND TRANSITIONS.
- PROVIDE THROTTLING VALVES AND SHUT-OFF VALVES AS INDICATED IN SPECIFICATIONS IN ADDITION TO THOSE INDICATED ON THE DOCUMENTS.
- INSTALL ALL EQUIPMENT VALVES AS REQUIRED BY MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS AND AS DETAILED.
- PROVIDE AIR VENTS AT ALL HIGH POINTS AND DRAINS AT ALL LOW POINTS.
- PROVIDE PRESSURE RELIEF DOORS FOR AIR SYSTEMS, PER THE SPECIFICATIONS.
- PROVIDE MOTORIZED DAMPERS AT ALL PERMANENT OPENINGS (EXHAUST, SUPPLY, RELIEF, O.A. INTAKES, MAKE-UP AIR, SMOKE VENTS, ETC.) EXCEPT DRYER, KITCHEN, AND FUME EXHAUST AND PROVIDE A MEANS TO CONTROL THE DAMPER OPERATION.
- ALL SUPPLY RECTANGULAR 90° ELBOWS SHALL HAVE TURNING VANES.
- PROVIDE DUCT TAKE-OFF TYPES AND VOLUME DAMPERS PER THE SPECIFICATIONS AND DUCT TAKE-OFF DETAILS ON DRAWINGS. TAKE-OFFS SHOWN ON FLOOR PLANS DO NOT REPRESENT THE SPECIFIC TYPE OF TAKE-OFF REQUIRED; CONSULT THE DETAILS AND SPECIFICATIONS.
- PROVIDE VOLUME DAMPERS ON ALL SUPPLY, EXHAUST, AND RETURN BRANCH DUCTS.
- COORDINATE AND VERIFY LOCATIONS OF ALL ITEMS REQUIRING ACCESS WITH ARCHITECT IN FIELD, INCLUDING VALVES, VOLUME DAMPERS, FIRE DAMPERS, ETC.
- ALL EQUIPMENT LOCATED ON THE ROOF THAT REQUIRES SERVICING SHALL BE LOCATED A MINIMUM 10'-0" FROM EDGE OF THE ROOF.
- ALL EXPOSED DUCTWORK SHALL BE FLAT, OVAL, OR ROUND. COORDINATE WITH ARCHITECT'S CEILING PLANS AND IDENTIFY ON DUCTWORK SHOP DRAWINGS.
- ALL DUCTWORK AND PIPING CROSSING SEISMIC JOINTS SHALL ACCOMMODATE DIFFERENTIAL MOTION. REFER TO DETAILS AND SPECIFICATIONS FOR MORE INFORMATION. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR LOCATIONS.
- ALL THERMOSTATS LOCATED ON OUTSIDE WALL SHALL HAVE INSULATED PAD BEHIND.
- ALL MOTORIZED DAMPERS SHALL BE WIRED BY ATC CONTRACTOR, COORDINATE VOLTAGE REQUIREMENTS WITH EQUIPMENT.
- ALL TOILETS & BATHROOMS SHALL HAVE 3/4" UNDERCUT DOORS.
- ALL LOUVERS ARE SELECTED AND SCHEDULED BY ARCHITECT. LOUVER TAGS ARE SHOWN FOR COORDINATION ONLY.
- SEISMICALLY SUPPORT THE EQUIPMENT AS REQUIRED BY CODE, THE AUTHORITY HAVING JURISDICTION, AND/OR AS SPECIFIED. SUBMIT ENGINEERED INSTALLATION DETAILS PER THE SPECIFICATIONS. THE CONTRACTOR'S SEISMIC ENGINEER SHALL REVIEW THE INSTALLATION AND PROVIDE A DETAILED REPORT FOR THE RECORD.
- PROVIDE PIPE EXPANSION COMPENSATION FOR THE VARIOUS PIPING SYSTEMS. SUBMIT ENGINEERED DETAILS FOR APPROVAL AND VERIFY INSTALLATION IS IN ACCORDANCE WITH THE CODE. THE CONTRACTOR'S CONSULTING ENGINEER SHALL REVIEW THE INSTALLATION AND PROVIDE A REPORT OF THE FINDINGS.

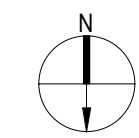
CT INNOVATIONS - THE DISTRICT

470 James Street
New Haven, CT,
06513

CONSULTANTS



KEY PLAN



PROJECT DATA

| | |
|-------------------------|-------------|
| PROJECT NUMBER | 18-000 |
| CURRENT SUBMISSION DATE | 08/29/19 |
| DRAWN | FSM |
| CHECKED | RHR |
| SCALE | 12" = 1'-0" |

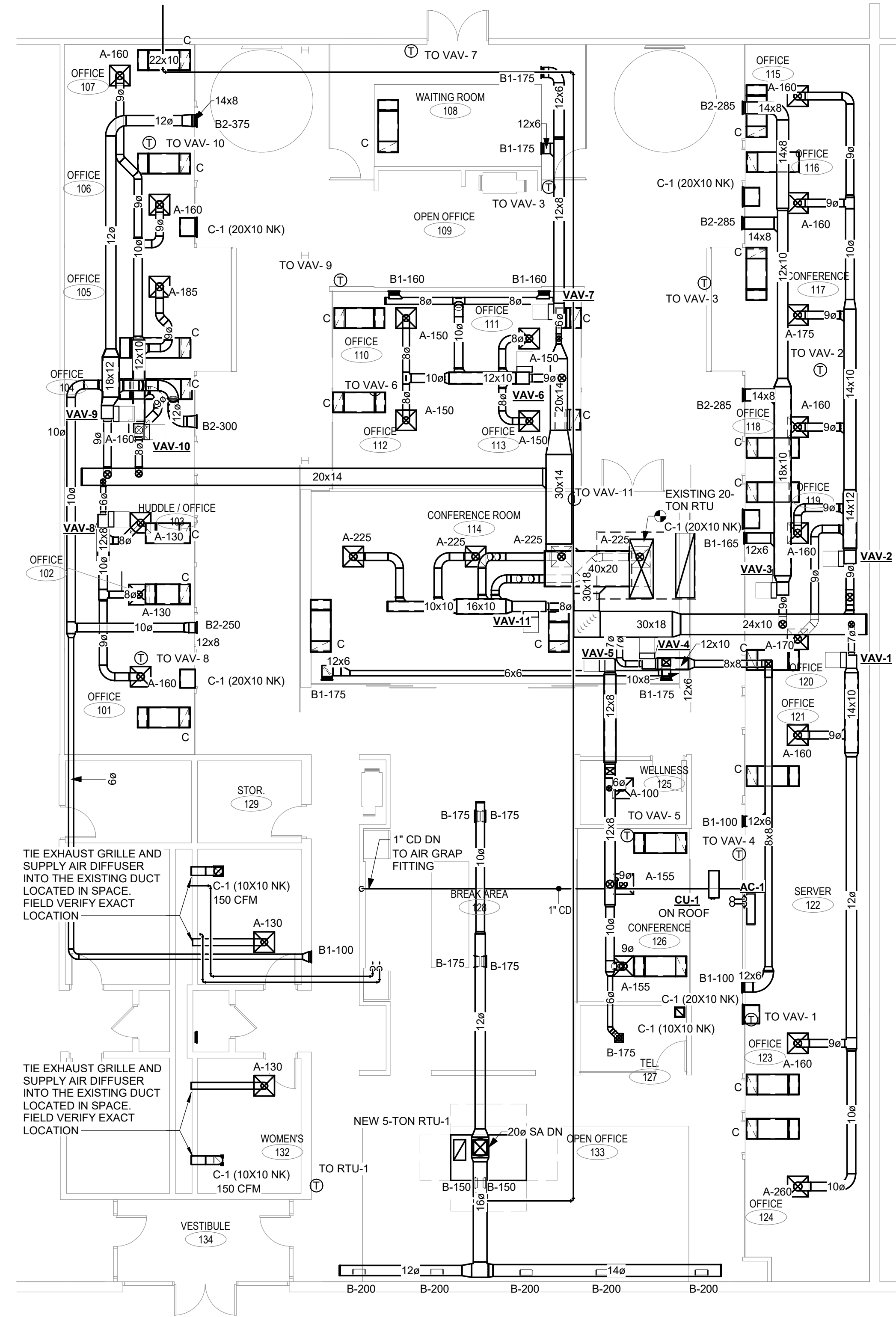
HISTORY OF SUBMISSIONS

| No. | Date | Description |
|-----|------|-------------|
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DD SET

SHEET TITLE

MECHANICAL ABBREVIATIONS, GENERAL NOTES AND SYMBOL LIST



1 MECHANICAL DUCT FIRST FLOOR PLAN
1/8" = 1'-0"

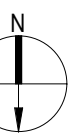
CT INNOVATIONS - THE DISTRICT

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New Haven, CT, 06513

CONSULTANTS



KEY PLAN



PROJECT DATA

| | |
|-------------------------|--------------|
| PROJECT NUMBER | 18-000 |
| CURRENT SUBMISSION DATE | 08/29/19 |
| DRAWN | FSM |
| CHECKED | RHR |
| SCALE | 1/8" = 1'-0" |

HISTORY OF SUBMISSIONS

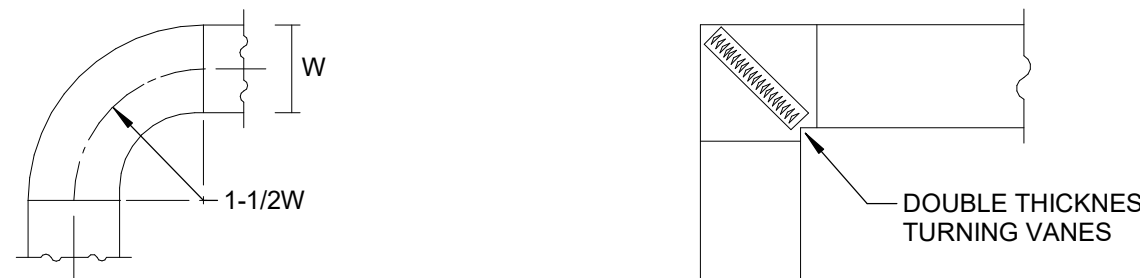
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DD SET

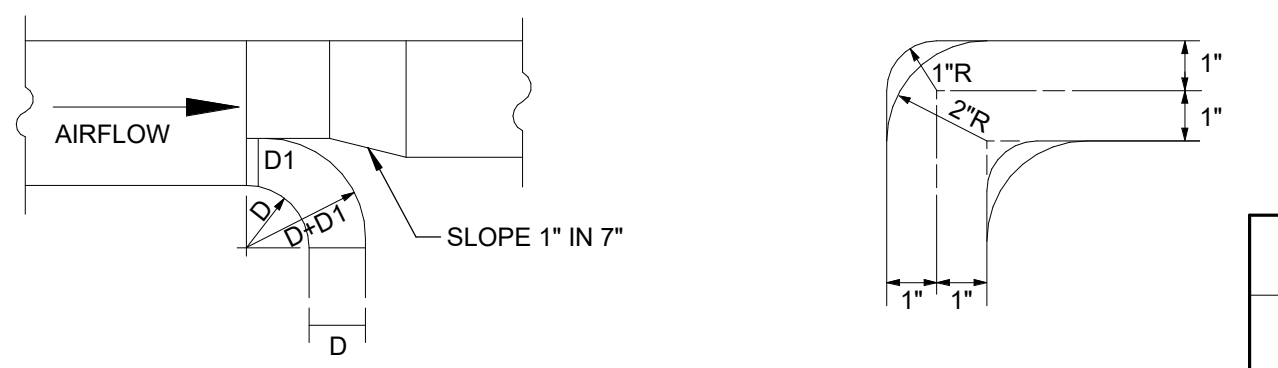
SHEET TITLE

FIRST FLOOR MECHANICAL DUCT PLAN

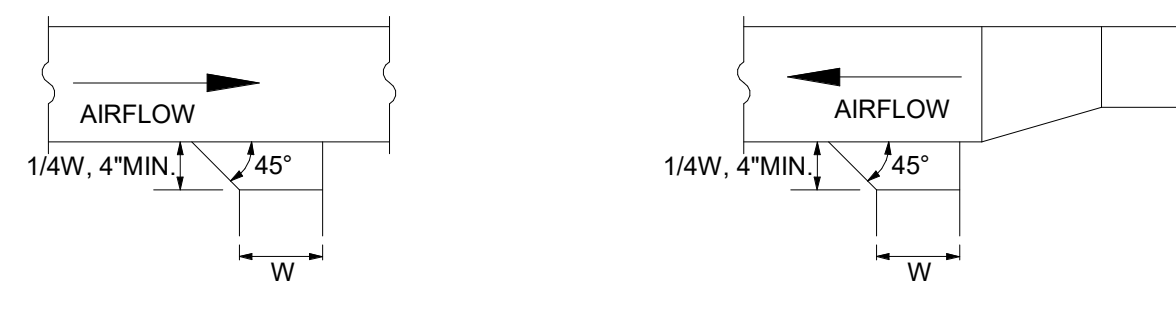
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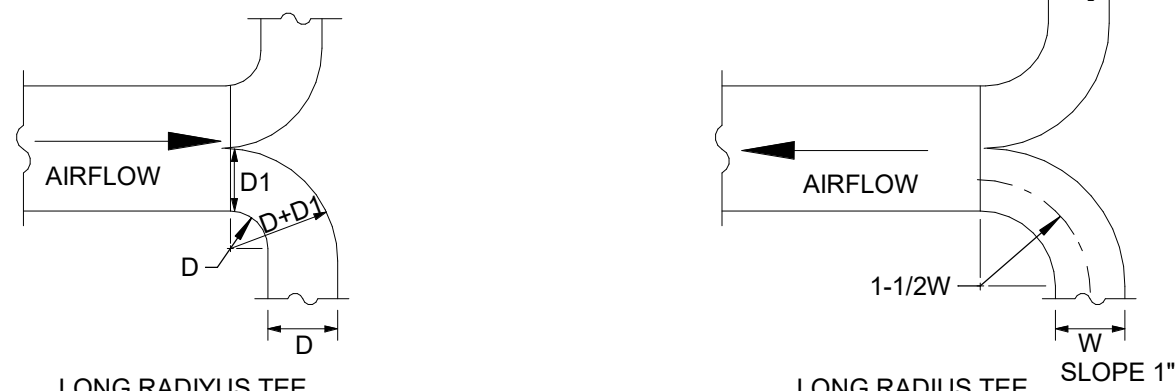
FULL RADIUS ELBOW SUPPLY AND RETURN DUCTS
 SQUARE ELBOW SUPPLY AND RETURN DUCTS



TAKEOFF SUPPLY DUCTS ONLY
 TAKEOFF SUPPLY AND RETURN DUCTS
 TYPICAL TURNING SUPPLY AND RETURN DUCTS

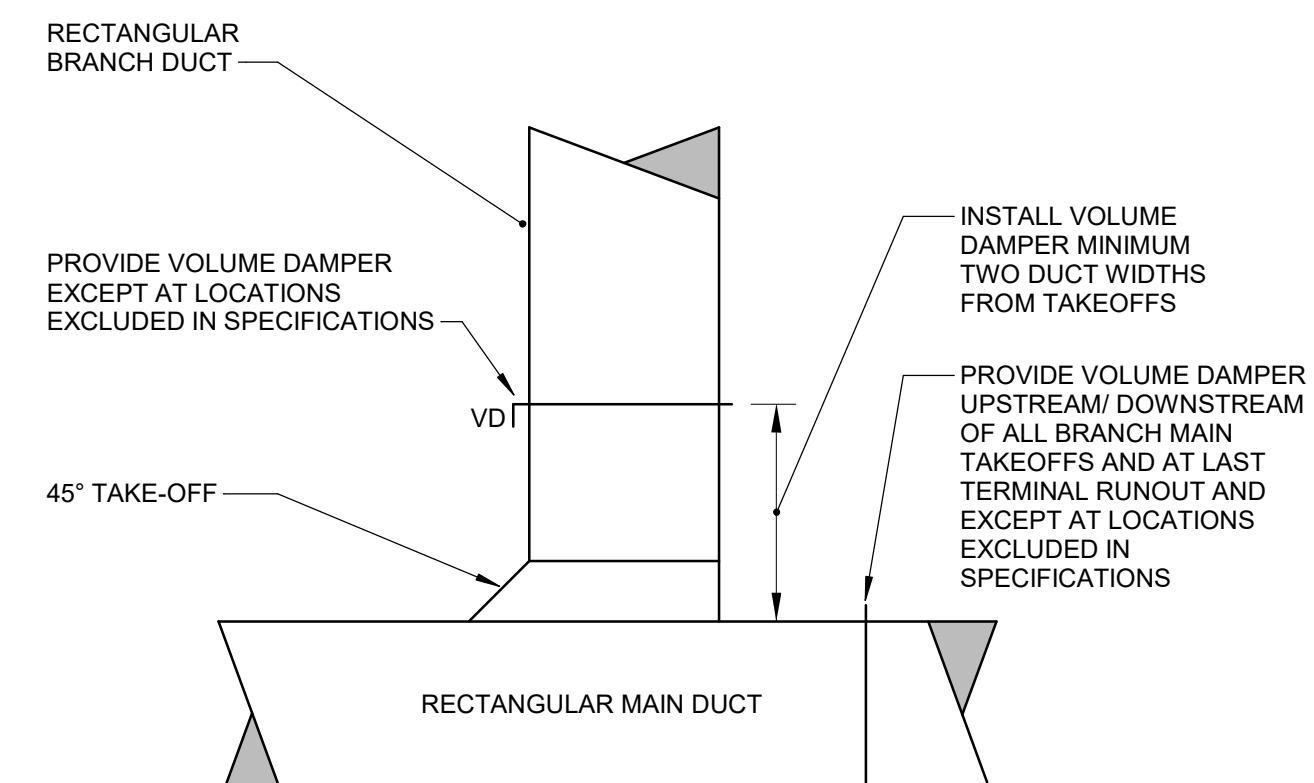


TAKEOFF SUPPLY DUCTS ONLY
 TAKEOFF RETURN DUCTS ONLY

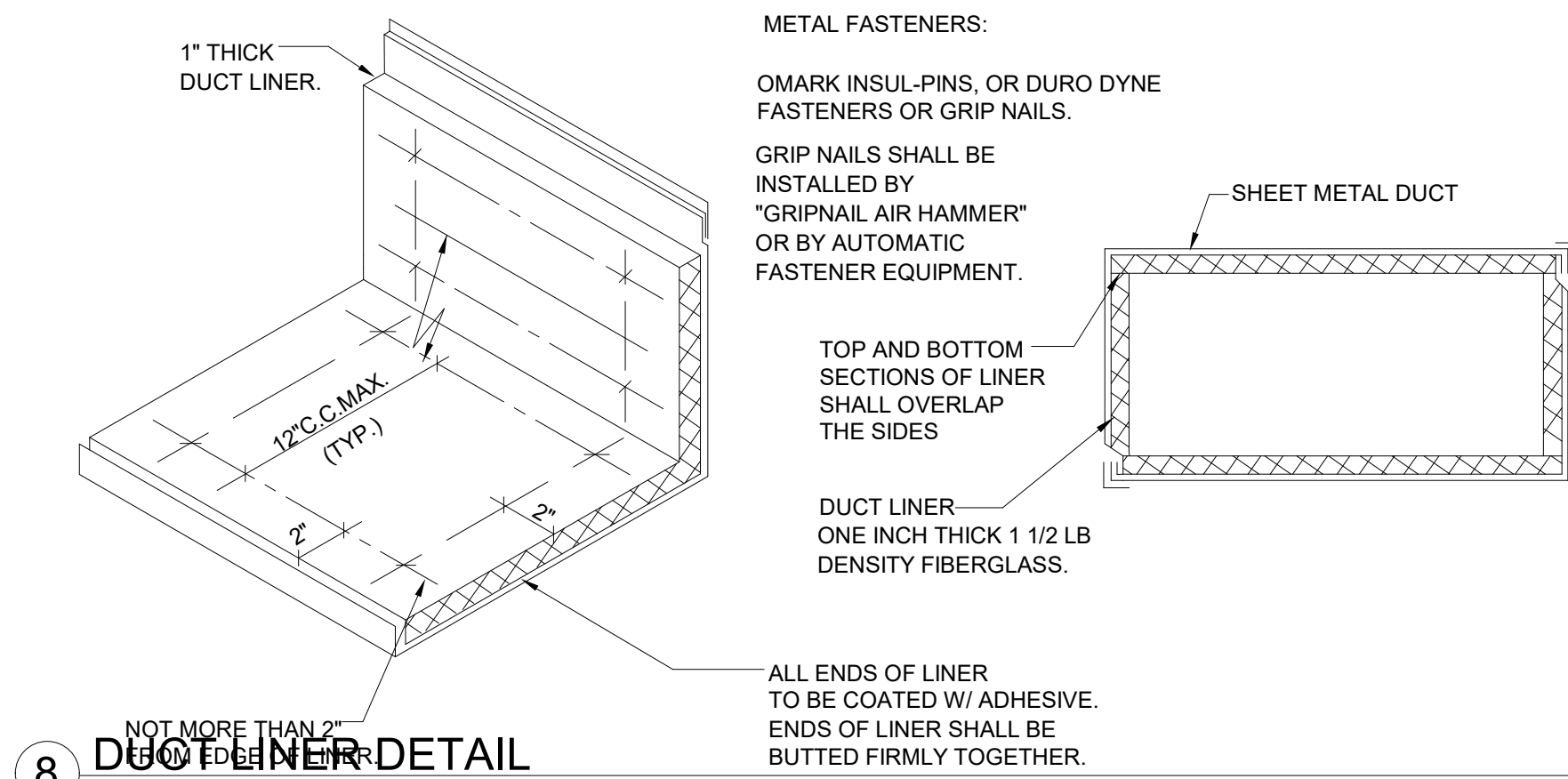


LONG RADIUS TEE SUPPLY DUCTS ONLY
 LONG RADIUS TEE RETURN DUCTS ONLY

7 TYPICAL DUCT DETAILS



2 RECTANGULAR BRANCH TAKEOFF DETAIL



8 DUCT LINER DETAIL

| ROOFTOP UNIT SCHEDULE | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--------------|-------------|---------|-----------------|-----------|------------|-------------|------------|----------------------|---------------------------------|------------|---------|---------------|-------------|------|-----|-----------------|------|-------|---------|--------------------------------------|
| TAG | MANUFACTURER | MODEL NO. | TYPE | OUTSIDE AIRFLOW | FANS | | | | SECONDARY FLOW (CFM) | COILS (REFER TO COIL SCHEDULES) | GAS BURNER | | EFFICIENCY | | | | ELECTRICAL DATA | | | REMARKS | |
| | | | | | MIN (CFM) | FLOW (CFM) | ESP (in-wg) | POWER (hp) | | | RPM | COOLING | INPUT (Btu/h) | OUTPUT (48) | SEER | EER | IEER | COP | MCA | | MOCP |
| RTU-1 | Trane | YHC067E3RHA | ROOFTOP | 140 | 2000 | 1.00 | 0.0 | 1023 | 0 | Yes | 60 | 48 | 0 | 0 | 0 | 0 | 33 A | 45 A | 208 V | 3 | PROVIDE WITH 14" CURB AND ECONOMIZER |

| FAN COIL UNIT SCHEDULE | | | | | | | | | | | | |
|------------------------|---------------------|------------|-----------|----------------------|-----------------|-----------------|-------|-----------------|------|-------|----|---------|
| TAG | MANUFACTURER | MODEL NO. | TYPE | AIRFLOW SUPPLY (CFM) | COIL CAPACITY | | | ELECTRICAL DATA | | | | REMARKS |
| | | | | | COOLING (Btu/h) | HEATING (Btu/h) | FLA | MCA | MOCP | VOLT | PH | |
| AC-1 | Mitsubishi Electric | PKA-A12HA7 | WALL HUNG | 425 | 12000.0 | 18000.0 | 0.3 A | 1 A | 15 A | 208 V | 1 | |

| CONDENSING UNIT SCHEDULE | | | | | | | | | | | | |
|--------------------------|---------------------|------------|------------------|-----------------|-----------------|------------|-------|------|------|---------|------|------|
| TAG | MANUFACTURER | MODEL NO. | NOMINAL CAPACITY | COIL CAPACITY | | EFFICIENCY | | | | REMARKS | | |
| | | | | COOLING (Btu/h) | HEATING (Btu/h) | EER | COP | FLA | MCA | | MOCP | VOLT |
| CU-1 | Mitsubishi Electric | PKA-A12HA7 | 12000 | 18000.0 | 12 | 4.31 | 7.5 A | 11 A | 28 A | 208 V | 1 | |

| VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE | | | | | | |
|--|--------------|-----------|-----------------------|-----------------|-----------|-------------------------------|
| TAG | MANUFACTURER | MODEL NO. | INLET DUCT SIZE (IN") | PRIMARY AIRFLOW | | REMARKS |
| | | | | MAX (CFM) | MIN (CFM) | |
| VAV-1 | TITUS | DESV | 7 | 590 | 180 | PROVIDE WITH SOUND ATTENUATOR |
| VAV-2 | TITUS | DESV | 9 | 975 | 295 | |
| VAV-3 | TITUS | DESV | 9 | 1020 | 310 | |
| VAV-4 | TITUS | DESV | 7 | 550 | 165 | |
| VAV-5 | TITUS | DESV | 7 | 510 | 155 | |
| VAV-6 | TITUS | DESV | 9 | 920 | 280 | |
| VAV-7 | TITUS | DESV | 6 | 350 | 105 | |
| VAV-8 | TITUS | DESV | 6 | 420 | 130 | |
| VAV-9 | TITUS | DESV | 9 | 1025 | 310 | |
| VAV-10 | TITUS | DESV | 8 | 665 | 200 | |
| VAV-11 | TITUS | DESV | 8 | 900 | 270 | |

GRILLES, DIFFUSERS AND REGISTERS SCHEDULE

(BASED ON KRUEGER)

SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND CONSTRUCTION. SIZE AND CFM INDICATED ON MECHANICAL DRAWINGS

A - MODEL SHPCR, 4-WAY THROW (UNLESS SHOWN OTHERWISE), 24X24 MODULE SIZE, LAY-IN BORDER, STEEL CONSTRUCTION, WHITE FINISH.

B - MODEL 5DMGDU (14X8) SPIRAL DUCT GRILLE, DOUBLE DEFLECTION CORE, 3/4" BLADE SPACING PARALLEL TO LONG DIMENSION, STEEL CONSTRUCTION, OPPOSED BLADE DAMPER, WHITE FINISH.

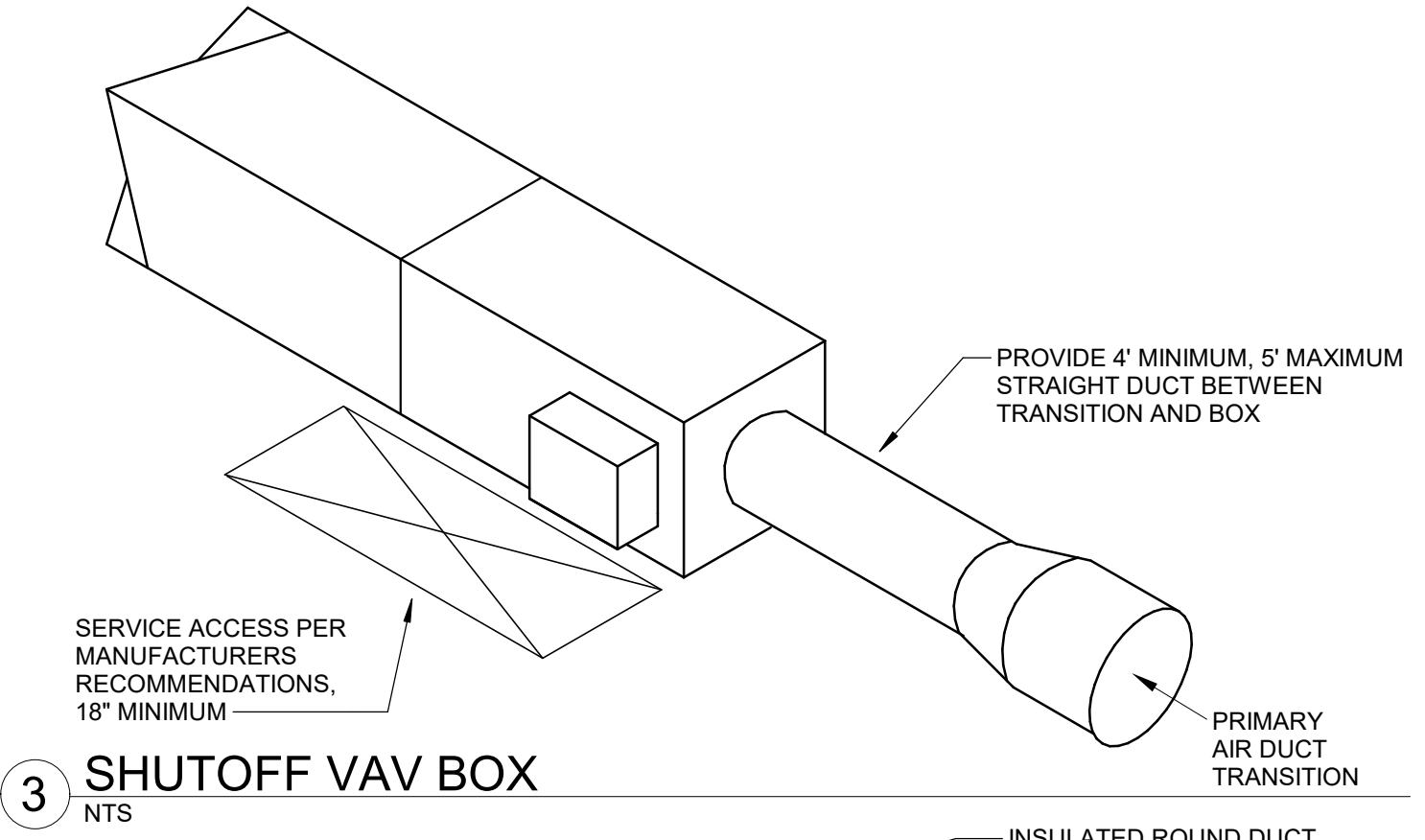
B 1 - MODEL 880(12X6) SUPPLY GRILLE, DOUBLE DEFLECTION CORE, 3/4" BLADE SPACING PARALLEL TO LONG DIMENSION, STEEL CONSTRUCTION, OPPOSED BLADE DAMPER, WHITE FINISH.

B 2 - MODEL 880(14X8) SUPPLY GRILLE, DOUBLE DEFLECTION CORE, 3/4" BLADE SPACING PARALLEL TO LONG DIMENSION, STEEL CONSTRUCTION, OPPOSED BLADE DAMPER, WHITE FINISH.

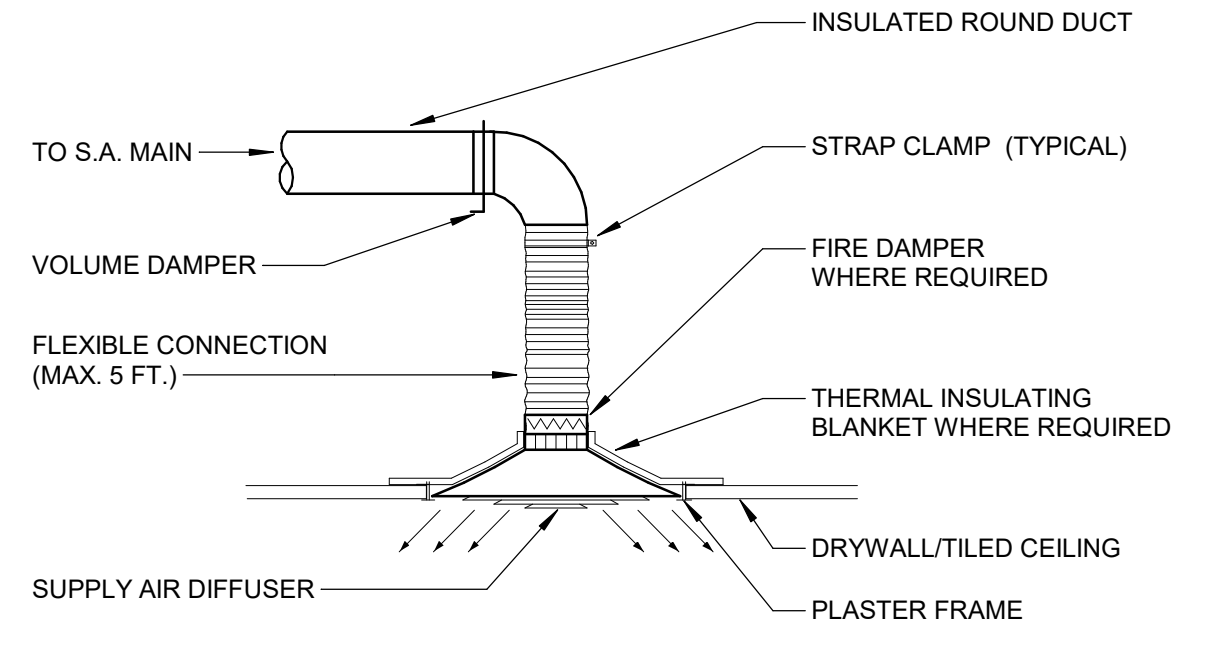
C - MODEL S80 RETURN GRILLE, 45° FIXED LOUVERS, 3/4" BLADE SPACING, 24X12 MODULE SIZE (20X10 NECK), LAY-IN BORDER, STEEL CONSTRUCTION, WHITE FINISH.

C 1 - MODEL S80 RETURN GRILLE, 45° FIXED LOUVERS, 3/4" BLADE SPACING PARALLEL TO LONG DIMENSION, SURFACE MOUNT BORDER, STEEL CONSTRUCTION, WHITE FINISH.

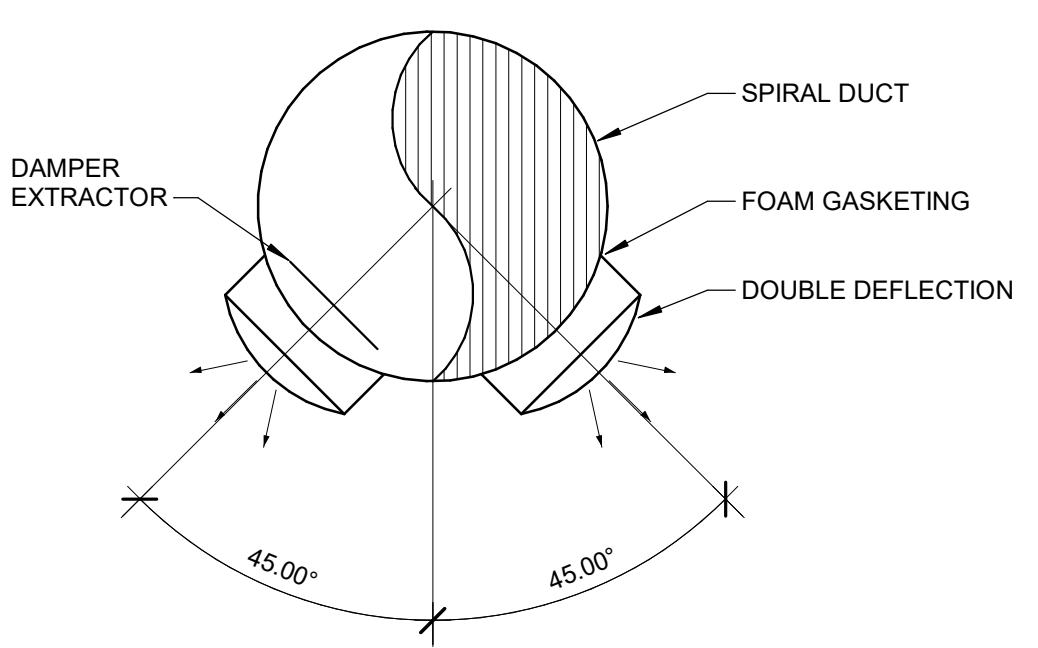
| CEILING SUPPLY DIFFUSER TYPE A | | | | FLEXIBLE DUCT SIZE | | | |
|--------------------------------|-----------|-----------|-----------|--------------------|-----------|------------|-----------|
| CFM | NECK SIZE | CFM | NECK SIZE | CFM | NECK SIZE | CFM | NECK SIZE |
| 0 - 100 | 6 X 6 | 0 - 45 | 4"Ø | 276 - 400 | 12"Ø | 901 - 1100 | 20"Ø |
| 101 - 225 | 9 X 9 | 50 - 70 | 5"Ø | 401 - 500 | 14"Ø | | |
| 226 - 400 | 12 X 12 | 71 - 100 | 6"Ø | 501 - 700 | 16"Ø | | |
| 401 - 625 | 15 X 15 | 101 - 150 | 8"Ø | 701 - 900 | 18"Ø | | |
| 626 - 900 | 18 X 18 | 151 - 225 | 9"Ø | | | | |



3 SHUTOFF VAV BOX



DIFFUSER MOUNTING DETAIL (DROP CEILING)



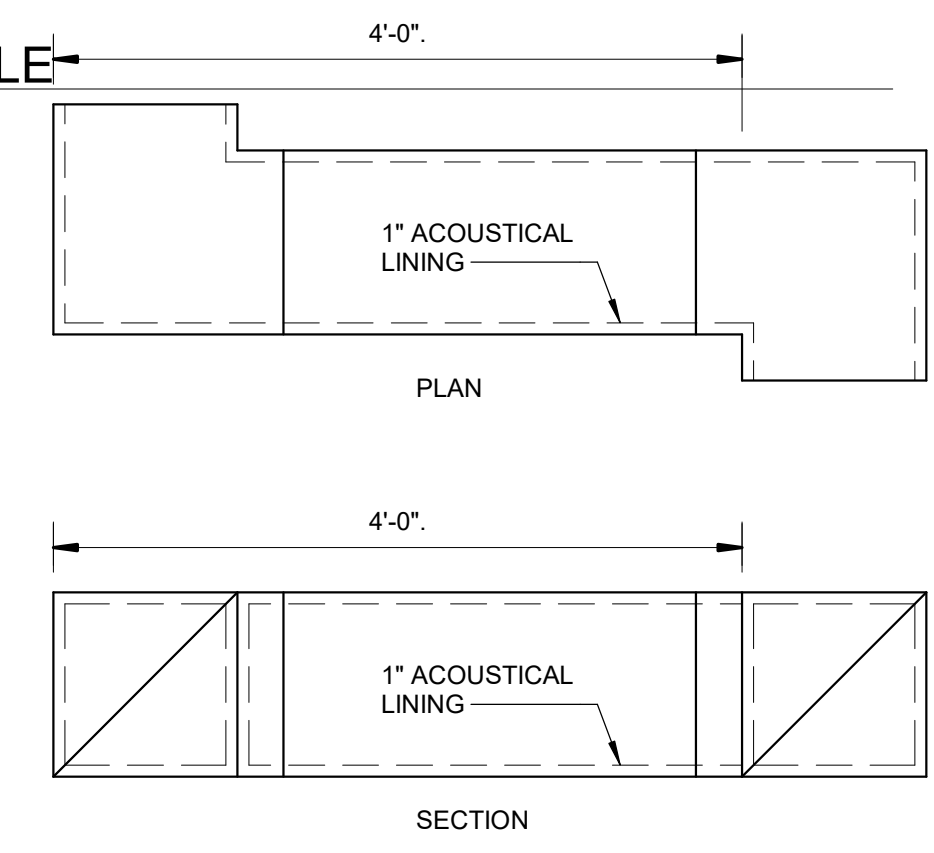
4 SPIRAL DUCT SECTION

GRILLES, DIFFUSERS AND REGISTERS SCHEDULE



6 TYPICAL ROUND DUCT HANGER DETAIL

| MINIMUM HANGER SIZES FOR ROUND DUCT | | | |
|-------------------------------------|-----------------|-------------------------|-----------------|
| DIA. | MAXIMUM SPACING | WIRE DIA. | STRAP |
| 10" dn | 12' | One 12 ga. | 1" x 22 ga. |
| 11-18" | 12' | Two 12 ga. or One 8 ga. | 1" x 22 ga. |
| 19-24" | 12' | Two 10 ga. | 1" x 22 ga. |
| 25-36" | 12' | Two 8 ga. | 1" x 20 ga. |
| 37-50" | 12' | Two 1" x 20 ga. | Two 1" x 20 ga. |
| 51-60" | 12' | Two 1" x 18 ga. | Two 1" x 18 ga. |
| 61-84" | 12' | Two 1" x 16 ga. | Two 1" x 16 ga. |



5 TRANSFER AIR DUCT

NOTE: TRANSFER AIR DUCT OPENING SHALL BE EQUAL TO 1 SQ. FT. PER 500 CFM OF SYSTEM AIR. DUCT TO BE A MINIMUM OF 4'-0" LONG, WITH 1" OF 1" ACoustical LINING PER MINIMUM OPENING 1 SQ. FT.

CT INNOVATIONS - THE DISTRICT
 470 James Street
 New Haven, CT, 06513

CONSULTANTS

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 www.rzdesignassociates.com

KEY PLAN

PROJECT DATA

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| PROJECT NUMBER | 18-000 |
| CURRENT SUBMISSION DATE | 08/29/19 |
| DRAWN | FSM |
| CHECKED | RHR |
| SCALE | 12" = 1'-0" |

HISTORY OF SUBMISSIONS

| No. | Date | Description |
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DD SET

SHEET TITLE

SCHEDULES AND DETAILS

8/29/2019 9:52:29 AM Amenta | Emma Architects, P.C. All rights reserved. Copying, reproduction or distribution prohibited without express written permission. © Copyright

ELECTRICAL SYMBOL LIST

NOTE: ALL MOUNTING HEIGHTS GIVEN ARE TO CENTERLINE OF DEVICE UNLESS NOTED OTHERWISE.

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|-----------------|--|--|---|
| | PENDANT MOUNTED LIGHT FIXTURE | | EMERGENCY SWITCH - MOUNT AT 48" A.F.F. - M=MASTER - S=SLAVE |
| | PENDANT MOUNTED LIGHT FIXTURE | | JUNCTION BOX |
| | CEILING MOUNTED LIGHT FIXTURE | | JUNCTION BOX WITH 120V POWER FOR TEMPERATURE CONTROLS |
| | WALL MOUNTED LIGHT FIXTURE | | JUNCTION BOX FOR CATV OUTLET WITH 1 1/4" CONDUIT TO CEILING |
| | SURFACE MOUNTED LIGHT FIXTURE | | MOTOR |
| | RECESSED DOWN LIGHT FIXTURE | | NON-FUSED DISCONNECT SWITCH |
| | RECESSED 2'X4' LIGHT FIXTURE | | FUSED DISCONNECT SWITCH |
| | RECESSED 2'X2' LIGHT FIXTURE | | MAGNETIC MOTOR STARTER |
| | WALL MOUNTED LIGHT FIXTURE | | COMBINATION DISCONNECT SWITCH/MAGNETIC MOTOR STARTER |
| | LINEAR FIXTURE | | |
| | SINGLE FACE EXIT SIGN WITH BATTERY AND DIRECTIONAL ARROWS UNIVERSAL MOUNT | | BRANCH CIRCUIT WIRING |
| | DOUBLE FACE EXIT SIGN WITH BATTERY AND DIRECTIONAL ARROWS UNIVERSAL MOUNT | | BRANCH CIRCUIT FEEDER |
| | EMERGENCY BATTERY UNIT WITH TWO DIRECTIONAL HEADS | | ELECTRICAL GROUND |
| | EMERGENCY REMOTE, WEATHERPROOF, WITH DOUBLE DIRECTIONAL HEADS | | FLEXIBLE EQUIPMENT CONNECTION |
| | | | FIXED/HARD - WIRED EQUIPMENT CONNECTION |
| S | SINGLE POLE TOGGLE SWITCH | | |
| S ₃ | THREE WAY TOGGLE SWITCH | | |
| S ₄ | FOUR WAY TOGGLE SWITCH | | |
| S _K | SINGLE POLE KEYED TOGGLE SWITCH | | TIMECLOCK |
| S _{3K} | THREE WAY KEYED TOGGLE SWITCH MOUNT | | CONTACTOR |
| S _{4K} | FOUR WAY KEYED TOGGLE SWITCH MOUNT | | SECURITY SYSTEM CAMERA |
| S _T | THERMAL OVERLOAD SWITCH - MOUNT AT FRACTIONAL HP MOTORS | | SECURITY SYSTEM DOOR LOCK |
| S _D | DIMMER SWITCH | | SECURITY SYSTEM MOTION SENSOR |
| S _{PS} | PROJECTION SCREEN SWITCH | | SECURITY SYSTEM CARD READER |
| S _{OC} | WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH | | SECURITY SYSTEM DOOR CONTACT |
| | DOORBELL BUZZER/CHIME - MOUNT 7'-0" A.F.F. | | SECURITY SYSTEM KEY PAD |
| | CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR | | FLOW SWITCH |
| | PHOTOCELL | | TAMPER SWITCH |
| | | | PRESSURE SWITCH |
| | | | WALL MOUNTED SPEAKER |
| | EMERGENCY ELECTRIC/GAS SHUTOFF PUSHBUTTON OPERATOR | | CEILING MOUNTED SPEAKER |
| | GROUNDING DUPLEX RECEPTACLE | | INTERCOM STATION |
| | GROUNDING DUPLEX RECEPTACLE - MOUNT ABOVE COUNTER OR BACKSPLASH 42" A.F.F. | | COMBINATION SPEAKER/CLOCK |
| | GROUNDING DUPLEX RECEPTACLE - MOUNT AT CEILING | | CLOCK |
| | GROUNDING DUPLEX GFI RECEPTACLE | | |
| | GROUNDING DUPLEX GFI RECEPTACLE "WEATHERPROOF WHILE IN-USE" COVER | | |
| | GROUNDING DUPLEX RECEPTACLE - STUB UP TO 24" A.F.F. ON 1" (MIN) RGS CONDUIT | | |
| | VERTICAL PLUGMOLD WITH OUTLETS AT 12" O.C. - 5' LONG | | |
| | GROUNDING GFI DUPLEX RECEPTACLE DEDICATED FOR MICROWAVE OVEN - VERIFY EXAC MOUNTING LOCATION | | |
| | GROUNDING DOUBLE DUPLEX RECEPTACLE | | |
| | GROUNDING 240V RECEPTACLE | | |
| | GROUNDING GFI DUPLEX RECEPTACLE WITH INTERGRAL USB CHARGING PORT | | |
| | GROUNDING SIMPLEX RECEPTACLE | | |
| | SPECIAL PURPOSE RECEPTACLE - MATCH NEMA CONFIGURATION OF EQUIPMENT SERVED | | |
| | FLOOR MOUNTED DEVICES AS LISTED ABOVE | | |
| | RECESSED MOUNTED PANELBOARD | | |
| | SURFACE MOUNTED PANELBOARD | | |
| | COMBINATION POWER/TEL/DATA POLE | | |
| | TELEPHONE/DATA OUTLETS | | |
| | WIRELESS ACCESS POINT (WAP - WIRELESS ACCESS POINT) INCLUDE CAT 5e CABLE | | |
| | | ELECTRICAL LEGEND NOTES: 1. ALL SYMBOLS MAY NOT BE USED. | |
| | MANUAL FIRE ALARM PULL STATION - MOUNT AT 48" A.F.F. | | |
| | HEAT DETECTOR | | |
| | HEAT DETECTOR 200" | | |
| | AREA SMOKE DETECTOR | | |
| | DUCT SMOKE DETECTOR | | |
| | AREA COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR | | |
| | ELEVATOR RETURN SMOKE DETECTOR | | |
| | FIRE ALARM CARBON MONOXIDE DETECTOR | | |
| | FIRE ALARM REMOTE TEST SWITCH | | |
| | MAGNETIC DOOR HOLDER | | |
| | FIRE ALARM VISUAL ONLY INDICATING UNIT - MOUNT AT 6'-6" A.F.F. | | |
| | FIRE ALARM SPEAKER/VISUAL INDICATING UNIT - MOUNT AT 6'-6" A.F.F. | | |
| | LIGHTING CONTROL RELAY | | |
| | FIRE ALARM ADDRESSABLE OUTPUT MODULE | | |
| | FIRE ALARM ADDRESSABLE INPUT MODULE | | |
| | SPEAKER VOLUME CONTROL | | |
| | FIRE ALARM CONTROL PANEL | | |
| | FIRE ALARM REMOTE ANNUNCIATOR PANEL | | |
| | HAZARDOUS GAS MONITOR PANEL FURNISHED BY DIV. 25, WIRED BY DIV. 26 | | |
| | EMERGENCY "CALL-FOR-AID" BUZZER/LIGHT - MOUNT AT 7'-6" A.F.F. | | |
| | EMERGENCY "CALL-FOR-AID" SWITCH - MOUNT 48" A.F.F. WITH PULL CORD TO 6" A.F.F. | | |

ABBREVIATIONS

| | A | AMPERE | KW | KILOWATT |
|--|------|-------------------------------|---------|---------------------------------|
| | AFF | ABOVE FINISHED FLOOR | MAU | MAKE-UP AIR UNIT |
| | AFG | ABOVE FINISHED GRADE | NL | NIGHT LIGHT |
| | AFI | ARC FAULT CIRCUIT INTERRUPTER | NLE | NEW LOCATION OF EXISTING |
| | AHU | AIR HANDLING UNIT | OHD | OVERHEAD DOOR ELECTRIC OPERATOR |
| | C | CONDUIT | P | POLE |
| | CB | CIRCUIT BREAKER | PE | PRIMARY ELECTRIC SERVICE |
| | CKT | CIRCUIT | PH or Ø | PHASE |
| | CUH | CABINET UNIT HEATER | PNL | PANEL |
| | DAC | DOOR ACCESS CONTROLLER | PVC | POLYVINYL CHLORIDE CONDUIT |
| | EBB | ELECTRIC BASEBOARD | RAP | REMOTE ANNUNCIATOR PANEL |
| | EBU | EMERGENCY BATTERY UNIT | RGS | RIGID GALVANIZED STEEL CONDUIT |
| | EF | EXHAUST FAN | RLE | RELOCATE EXISTING |
| | EM | EMERGENCY POWERED | RTU | ROOFTOP UNIT |
| | EMT | ELECTRICAL METALLIC TUBING | SE | SECONDARY ELECTRIC SERVICE |
| | ETR | EXISTING TO REMAIN | T | TELEPHONE SERVICE |
| | EWC | ELECTRIC WATER COOLER | TV | TELEVISION |
| | EWH | ELECTRIC WATER HEATER | TX | TRANSFORMER |
| | FA | FIRE ALARM | UNO | UNLESS NOTED OTHERWISE |
| | FACP | FIRE ALARM CONTROL PANEL | W | WIRE |
| | FMC | FLEXIBLE METALLIC TUBING | WAP | WIRELESS ACCESS POINT |
| | GFI | GROUND FAULT INTERRUPTER | WP | WEATHER PROOF |
| | IG | ISOLATED GROUND | | |
| | JB | JUNCTION BOX | | |
| | KVA | KILOVOLT-AMP | | |

ELECTRICAL GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH CURRENT APPLICABLE CODES, ORDINANCES, THE REGULATORY AGENCIES HAVING JURISDICTION AND THE SPECIFICATIONS. THE SPECIFICATIONS MAY EXCEED THE REQUIREMENTS OF THE CODE, IN WHICH CASE, THE SPECIFICATION MUST BE FOLLOWED.
- THE INTENT OF THESE DOCUMENTS IS FOR THE MEP TRADES TO FURNISH AND INSTALL COMPLETE MECHANICAL AND ELECTRICAL SYSTEMS. THE SPECIFIED ELECTRICAL SYSTEM SHALL BE COMPLETE IN ALL RESPECTS, OPERATIONAL, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER.
- THE TRADES SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS BEFORE SUBMITTING A BID. INFORMATION IS PROVIDED ON THE VARIOUS DRAWINGS, SCHEDULES, SPECIFICATIONS AND ALL OF THE VARIOUS DOCUMENTS IN THE BIDDING PACKAGE. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND FORM A TOTAL PROJECT DESIGN AND INFORMATION SOURCE FOR CONSTRUCTION PURPOSES.
- THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. COORDINATE LOCATIONS OF EQUIPMENT WITH OTHER TRADES BEFORE AND DURING CONSTRUCTION. ANY MODIFICATION TO THE EQUIPMENT LAYOUT, REQUIRED FOR INSTALLATION, IS TO BE PERFORMED UNDER THE CONTRACT AGREEMENT, AT NO ADDITIONAL COST. REFER TO DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT AND CONDUITS. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EQUIPMENT AND CONDUITS INSTALLATION WITH ALL THE TRADES BEFORE COMMENCING WORK.
- EQUIPMENT SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS, WHEN EQUIPMENT MUST BE LOCATED ABOVE AN INACCESSIBLE CEILING (GYP BOARD OR EQUIVALENT), OR BEHIND A WALL, AN APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. IF AN ACCESS DOOR IS REQUIRED, IT SHALL BE OF A RATING APPROPRIATE FOR THE WALL/CEILING IN WHICH IT IS TO BE INSTALLED. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF ACCESS PANELS FOR ALL DEVICES REQUIRING ACCESS, WITH THE ARCHITECT, PRIOR TO INSTALLATION OF SUCH DEVICES OR OTHER APPURTENANCES.
- WHERE A CONFLICT OCCURS BETWEEN THE DOCUMENTS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. CARRY AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEM(S).
- THIS CONTRACT SHALL INCLUDE ALL THE NECESSARY CONDUITS, FITTINGS, TRANSITIONS ETC. AS REQUIRED TO INSTALL CONDUITS AND EQUIPMENT, AND TO AVOID ANY CONFLICTS WITH OTHER TRADES AND THE BUILDING STRUCTURE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS HE MAKES AS A RESULT OF HIS FAILURE TO COORDINATE WITH OTHER TRADES OR BECOME FULLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES.
- DO NOT INSTALL ANY ELECTRICAL PANELS, TRANSFORMERS, SPECIAL EQUIPMENT, BELOW PIPING OR THROUGH MECHANICAL ROOMS, THAT ARE NOT ASSOCIATED WITH OR SERVE THE RESPECTIVE ROOMS. COORDINATE THE LOCATION OF MECHANICAL EQUIPMENT IN THE FIELD AND ADJUST AS NECESSARY.
- ALL HOMERUNS SHALL BE 2#12, 1#12G, 3/4" TO 20A-1P CIRCUIT BREAKER IN PANEL DESIGNATED UNLESS OTHERWISE NOTED.
- ALL 120 VAC (277 VAC) CIRCUITS EXCEEDING 150' IN LENGTH SHALL BE INCREASED TO 2#10, 1#10G, 3/4" CONDUIT UNLESS OTHERWISE NOTED.
- ALL BRANCH CIRCUITS SHALL BE PROVIDED WITH SEPARATE NEUTRALS. USE OF COMMON NEUTRALS WILL NOT BE ALLOWED.
- FIELD VERIFY WITH MANUFACTURER'S PROVIDED EXACT ELECTRICAL CHARACTERISTICS AND CONNECTION REQUIREMENTS OF ALL OPERATIONAL EQUIPMENT PRIOR TO MAKING ELECTRICAL POWER CONNECTION. FURNISH AND INSTALL SAFETY DISCONNECT AS REQUIRED BY NEC.
- RECEPTACLES LOCATED WITHIN 6' OF A WATER SOURCE, OR OUTSIDE, AND WHERE REQUIRED BY CODE SHALL BE PROVIDED WITH GFCI PROTECTION, WHETHER INDICATED OR NOT.
- EXTERIOR RECEPTACLES SHALL BE PROVIDED WITH "CAST ALUMINUM" LOCKABLE COVERS RATED "WEATHER-PROOF WHILE IN USE". LOCKS SHALL BE KEYPED ALIKE.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED SLEEVES AND FIRE STOP FOR CONDUITS AND CABLES PENETRATING FIRE RATED WALLS AND FLOORS.
- ELECTRICAL CONTRACTOR SHALL SEAL ALL CONDUITS PENETRATING EXTERIOR WALLS.
- ALL WIRING SHALL BE IN CONDUIT, UNLESS OTHERWISE INDICATED. CONDUITS SHALL BE RUN CONCEALED IN NEW AND ABOVE CEILINGS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE ALL LOCATIONS OF EQUIPMENT WITH DIV. 21, 22 AND 23 PRIOR TO ROUGHING OR INSTALLING OUTLETS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER, ALL LOCATIONS OF EQUIPMENT BEING FURNISHED BY THE OWNER PRIOR TO ROUGHING OR INSTALLING OUTLETS.
- REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND EXACT LOCATION OF DEVICES PRIOR TO ROUGHING OR INSTALLATION OF OUTLETS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE THE LOCATION OF DUCT SMOKE DETECTORS WITH DIV. 23. DUCT SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR, INSTALLED BY DIV. 23.
- ALL FIRE ALARM DEVICES LOCATED ON BUILDING EXTERIOR SHALL BE WEATHERPROOF RATED.
- CONDUITS AND/OR WIRING SHALL NOT PENETRATE STAIR ENCLOSURES UNLESS SPECIFICALLY SERVING EQUIPMENT OR DEVICES LOCATED WITHIN STAIR ENCLOSURE.
- WHERE INDICATED, PROVIDE FIXTURES WITH EMERGENCY BATTERY TO OPERATE LAMPS FOR 1 1/2 HOURS UPON LOSS OF NORMAL POWER. WIRE EMERGENCY BATTERY AND EXIT LIGHTS TO LINE SIDE OF AREA LIGHTING CIRCUIT.
- DIRECTIONAL CHEVRONS SHALL CONFORM TO NFPA 5-10.4.1.2 AND SHALL BE IDENTIFIABLE AS A DIRECTIONAL INDICATOR AT A MINIMUM OF 40 FT. UNDER ALL SPACE CONDITIONS. PROVIDE DIRECTIONAL CHEVRONS AS INDICATED ON PLAN.
- BRANCH CIRCUIT WIRING IS SHOWN ON THE FLOOR PLANS. NUMERALS ADJACENT TO THE HOMERUN SYMBOLS FOR LIGHTING, RECEPTACLES, MOTORS, APPLIANCES, ETC. INDICATE THE CIRCUIT NUMBER TO WHICH THE ITEMS ARE TO BE CONNECTED. PROVIDE BRANCH CIRCUIT WIRING FOR ALL ITEMS SHOWN IN ACCORDANCE WITH THESE GENERAL NOTES AND THE ELECTRICAL SPECIFICATIONS.
- ALL 1 POLE, 15 AND 20 AMPERE BRANCH CIRCUITS SERVING RECEPTACLE OR LIGHTING SHALL BE 2 WIRE CIRCUITS PROVIDING AN INDIVIDUAL NEUTRAL CONDUCTOR FOR EACH UNGROUNDED (HOT) CIRCUIT CONDUCTOR. DO NOT SHARE NEUTRAL CONDUCTORS.
- REFER TO ARCHITECTS REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF CEILING MOUNTED DEVICES.
- ALL EXPOSED CABLES OF ANY TYPE IN PLENUM CEILING SPACE SHALL BE PLENUM RATED.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY MISCELLANEOUS STEEL FOR THE SUPPORT OF ALL EQUIPMENT, PIPING, CONDUIT AND DUCTWORK, SUSPENDED FROM SLAB, STEEL, WALL OR TRUSSWORK.
- ALL PENETRATIONS OF FLOORS AND WALLS (WHETHER OR NOT FIRE RESISTANCE RATED) SHALL BE PROVIDED WITH A THROUGH PENETRATION PROTECTION SYSTEM (FIRESTOPPING). EACH THROUGH - PENETRATION PROTECTION SYSTEM SHALL BE TESTED IN ACCORDANCE WITH ASTM E814 AND BE LISTED FOR THE TYPE OF FLOOR OR WALL ASSEMBLY PENETRATED AND THE TYPE OF PROTECTION SYSTEM.
- IT IS NOT THE INTENTION TO SHOW EVERY FITTING, HANGER, WIRE OR DEVICE, ALL SUCH ITEMS SHALL BE FURNISHED AND INSTALLED AS NECESSARY FOR A COMPLETE SYSTEM.
- SEE SPECIFICATION SECTION "ELECTRICAL IDENTIFICATION" FOR PROPERLY LABELING EQUIPMENT WIRING, BOXES, ETC.
- CONTRACTOR SHALL DETERMINE THE QUANTITY OF CONDUCTORS REQUIRED FOR PROPER OPERATION OF ALL SWITCHING SCHEMES.
- PROVIDE ALL BONDING AND GROUNDING REQUIRED BY THE NATIONAL ELECTRIC CODE, NFPA 70 AND AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.
- ALL REQUIRED BONDING CONDUCTORS SHALL BE MINIMUM #8 SOLID INSULATED COPPER, PROVIDE ALL NECESSARY FITTINGS, JUNCTION BOXES, END FITTINGS, ETC., FOR A COMPLETE, CONTINUOUS INSTALLATION.
- ALL BONDING/GROUNDING CONNECTIONS SHALL BE MADE BY LISTED CLAMP OR CONNECTORS AS REQUIRED BY ARTICLE 250 OF NFPA 70, THE NATIONAL ELECTRIC CODE (CURRENT ADOPTED EDITION).
- SEISMICALLY SUPPORT THE EQUIPMENT AS REQUIRED BY CODE, THE AUTHORITY HAVING JURISDICTION, AND/OR AS SPECIFIED. SUBMIT ENGINEERED INSTALLATION DETAILS PER THE SPECIFICATIONS. THE CONTRACTOR'S SEISMIC ENGINEER SHALL REVIEW THE INSTALLATION AND PROVIDE A DETAILED REPORT FOR THE RECORD.

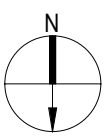
CT INNOVATIONS - THE DISTRICT

470 James Street
New Haven, CT, 06513

CONSULTANTS



KEY PLAN



PROJECT DATA

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| PROJECT NUMBER | 18-000 |
| CURRENT SUBMISSION DATE | 08/29/19 |
| DRAWN | JJZ |
| CHECKED | BJZ |
| SCALE | NTS |

HISTORY OF SUBMISSIONS

| No. | Date | Description |
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DD SET

SHEET TITLE

ELECTRICAL ABBREVIATIONS, GENERAL NOTES AND SYMBOL LIST

GENERAL PROVISIONS A. GENERAL

1. REQUIREMENTS SPECIFIED ON COVER SHEET, ALONG WITH ELECTRICAL SPECIFICATIONS AND ALL ITS SECTIONS, COMPRISE THE CONTRACT DOCUMENTS FOR THE ELECTRICAL CONTRACT. DRAWINGS AND ALL THEIR REVISIONS UP TO THE BID SUBMITTAL DATE BECOME A BINDING PART OF THE CONTRACT. ALONG WITH THESE SPECIFICATIONS AS THOUGH THEY WERE ONE, AND ANYTHING IMPLIED BY THE SPECIFICATIONS SHALL BE INTERPRETED AS ALSO IMPLIED BY THE DRAWINGS AND VICE VERSA. PROVIDE NECESSARY ITEMS FOR A COMPLETE INSTALLATION OF ALL ELECTRICALLY OPERATED EQUIPMENT LISTED IN THE SPECIFICATIONS OR SHOWN ON THE CONTRACT DRAWINGS.

2. THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND EQUIPMENT DRAWINGS AND SPECIFICATIONS ARE INCORPORATED INTO, AND BECOME A PART OF THIS DIVISION. THE CONTRACTOR SHALL EXAMINE ALL SUCH DRAWINGS AND SPECIFICATIONS AND BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS CONTAINED THEREIN. THE SUBMISSION OF HIS BID SHALL INDICATE SUCH KNOWLEDGE.

3. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. THEY ARE INTENDED TO SHOW THE APPROXIMATE LOCATIONS OF EQUIPMENT AND CONDUIT. DIMENSIONS GIVEN ON THE PLANS, IN FIGURES, SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS AND SHALL BE VERIFIED IN THE FIELD. THE ELECTRICAL CONTRACTOR SHALL LAYOUT ALL EQUIPMENT ROOMS TO MAKE SURE THE EQUIPMENT, AS PURCHASED, FITS IN THE ROOM OR SPACE SHOWN. EXACT LOCATION OF ALL EQUIPMENT SHALL BE VERIFIED IN THE FIELD AND ROUTING OF CONDUITS SHALL SUIT FIELD CONDITIONS.

4. UNTIL THE TIME OF INSTALLATION, THE ARCHITECT RESERVES THE RIGHT TO MAKE MINOR CHANGES IN THE LOCATION OF CONDUIT AND EQUIPMENT WITHOUT ADDITIONAL COST TO THE CONTRACT.

5. THE ELECTRICAL DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER. MATERIAL AND LABOR NECESSARY TO THE PROJECT SHALL BE FURNISHED AND INSTALLED EVEN THOUGH NOT SPECIFICALLY MENTIONED IN BOTH. LABOR AND/OR MATERIALS NEITHER SHOWN NOR SPECIFIED, BUT OBVIOUSLY NECESSARY FOR THE COMPLETE AND PROPER FUNCTIONING OF THE SYSTEM, SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AT NO ADDITIONAL COST.

6. ARRANGE ALL EQUIPMENT SUBSTANTIALLY AS SHOWN ON THE DRAWINGS. MAKE DEVIATIONS ONLY WHERE NECESSARY TO AVOID INTERFERENCE. CHECK ALL EQUIPMENT SIZES AGAINST AVAILABLE SPACE PRIOR TO SHIPMENT TO AVOID INTERFERENCE.

7. EXAMINE THE WORK OF OTHER TRADES INsofar AS THEIR WORK COMES IN CONTACT WITH OR IS COVERED BY THIS WORK. IN NO CASE ATTACH TO, OR FINISH AGAINST ANY DEFECTIVE WORK OR INSTALL WORK IN A MANNER WHICH WILL PREVENT PROPER INSTALLATION OF THE WORK OF OTHER TRADES.

8. ELECTRICAL CONTRACTOR SHALL VERIFY WITH OTHER TRADES ALL ELECTRICAL CHARACTERISTICS OF EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. CONTRACTOR SHALL VERIFY VOLTAGE, PHASE AND HORSEPOWER AND SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO START OF WORK. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION FOR ALL EQUIPMENT, UNLESS FURNISHED INTEGRAL WITH EQUIPMENT PACKAGE.

9. IT IS THE INTENT OF THESE DRAWINGS THAT THIS BE A COMPLETE ELECTRICAL JOB. ANY ERRORS OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BIDDING THE JOB.

B. VISIT TO THE SITE

1. THE CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING HIS WORK. THE SUBMISSION OF HIS PROPOSAL SHALL INDICATE SUCH KNOWLEDGE. NO ADDITIONAL PAYMENT SHALL BE MADE ON CLAIMS THAT ARISE FROM A LACK OF KNOWLEDGE OF THE EXISTING CONDITIONS.

C. CODE AND PERMITS

1. INSTALLATION SHALL BE IN FULL ACCORDANCE WITH ALL CODES, RULES AND REGULATIONS OF MUNICIPAL, CITY, COUNTY, STATE AND PUBLIC UTILITIES AND ALL OTHER AUTHORITIES HAVING JURISDICTION OVER THE PREMISES.

2. COMPLY WITH ANY SPECIFICATION REQUIREMENTS THAT ARE IN EXCESS BUT NOT IN CONFLICT WITH CODE REQUIREMENTS.

3. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, PLAN REVIEWS AND CERTIFICATES OF INSPECTION IN CONNECTION WITH HIS WORK, REQUIRED BY THE FOREGOING AUTHORITIES, BEFORE FINAL PAYMENT OF THE CONTRACT IS ALLOWED. ALL CERTIFICATES SHALL BE DELIVERED TO THE ARCHITECT IN DUPLICATE.

4. ELECTRICAL MATERIAL AND EQUIPMENT SHALL BEAR THE UL LABEL EXCEPT WHERE UL DOES NOT LABEL SUCH TYPES OF MATERIAL AND EQUIPMENT.

D. SHOP DRAWINGS SUBMITTALS

1. THE ELECTRICAL CONTRACTOR SHALL SUBMIT FIVE (5) SETS OF SHOP DRAWINGS. THE SHOP DRAWINGS OF THE FOLLOWING EQUIPMENT USING THE INDICATED NUMBERING SYSTEM AND TITLES, SHALL BE SUBMITTED THROUGH THE ARCHITECT TO THE ENGINEER AND THEN RESUBMITTED FOR FINAL APPROVAL, IF NECESSARY. SHOP DRAWINGS SHALL BE SUBMITTED BUT NOT LIMITED FOR THE FOLLOWING ITEMS:

- WIRING DEVICES.
- PANEL BOARDS AND SAFETY SWITCHES INCLUDING FAULT CURRENT STUDY BASED ON EQUIPMENT BEING SUPPLIED.
- CONTRACTORS' TIME SWITCHES AND PHOTOCCELL.
- LIGHTING FIXTURES.
- SUPERVISORY ALARM SYSTEM.

2. ALL SUBMITTED SHOP DRAWINGS (MANUFACTURERS' EQUIPMENT DESCRIPTIVE SHEETS OR VENDORS' PREPARED DRAWINGS) SHALL HAVE THE GENERAL CONTRACTOR'S OR SUBCONTRACTOR'S "STAMP OF APPROVAL" INDICATING THAT THE ITEM SUBMITTED IS AS CALLED FOR ON THE PLANS AND SPECIFICATIONS, IS APPROVED BY THE GENERAL CONTRACTOR OR SUBCONTRACTOR, THE DATE OF APPROVAL AND INITIALED BY THE PERSON APPROVING THE SUBMITTAL AND THE NAME OF THE COMPANY SUBMITTING SAID EQUIPMENT FOR APPROVAL.

3. SUBMIT BOUND BROCHURES COMPLETE WITH A TABLE OF CONTENTS. LOOSE OR STAPLED TOGETHER SHEETS ARE NOT ACCEPTABLE. ANY SUBMITTALS NOT IN BROCHURE FORM OR NOT AS SPECIFIED SHALL BE RETURNED AT THE CONTRACTOR'S EXPENSE FOR RESUBMITTAL.

4. ALL DESCRIPTIVE LITERATURE SHALL BE SUBMITTED IN A THREE (3) HOLE BROCHURE WITH A COVER IDENTIFYING THE FOLLOWING:

- NAME OF THE JOB.
- LOCATION OF THE JOB, ADDRESS, CITY AND STATE.
- NAME AND ADDRESS OF THE COMPANY SUBMITTING THE BROCHURES.
- DATE OF THE SUBMITTAL.

5. EVERY EFFORT SHALL BE MADE, IN CHECKING THE SHOP DRAWINGS, TO DETECT AND CORRECT ALL ERRORS, OMISSIONS AND INACCURACIES. FAILURE TO DO THIS WILL NOT RELIEVE THE ELECTRICAL CONTRACTOR OF THE RESPONSIBILITY FOR THE PROPER AND COMPLETE INSTALLATION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

E. AS-BUILT DRAWINGS

1. SUBMIT TO THE ARCHITECT ONE SET HARD COPY AND AUTOCAD (.dwg) FILES OF THE ELECTRICAL DRAWINGS SHOWING THE AS-BUILT CONDITION.

F. STANDARDS AND SUBSTITUTIONS

1. WHEREVER THE WORDS "APPROVED BY," "APPROVED EQUAL," "AS DIRECTED" OR SIMILAR PHRASES ARE USED IN THE FOLLOWING SPECIFICATIONS, THEY SHALL BE UNDERSTOOD TO REFER TO THE OWNER AS THE APPROVING AGENCY. THE NAME OR MAKE OF ANY EQUIPMENT OR MATERIALS NAMED IN THIS SPECIFICATION (WHETHER OR NOT THE WORDS "OR APPROVED EQUAL" ARE USED) SHALL BE KNOWN AS THE "STANDARD".

2. THESE SPECIFICATIONS ESTABLISH QUALITY STANDARD OF MATERIALS AND EQUIPMENT TO BE PROVIDED. SPECIFIC ITEMS ARE IDENTIFIED BY MANUFACTURER, TRADE NAME OR CATALOG DESIGNATION. THIS CONTRACTOR SHALL SUBMIT HIS BASE BID PRICE BASED UPON STANDARD SPECIFIED EQUIPMENT DESCRIBED HEREIN AND AS DETAILED ON DRAWINGS AND ASSOCIATED CONTRACT DOCUMENTS. THESE SPECIFICATIONS ARE NOT TO BE CONSIDERED PROPRIETARY THE CONTRACTOR MAY SUBMIT INFORMATION ON MATERIALS AND MANUFACTURERS (OTHER THAN THOSE LISTED) FOR REVIEW BY THE ARCHITECT AND ENGINEER NO LATER THAN TEN (10) DAYS BEFORE BIDS ARE SUBMITTED. ADDITIONAL SAMPLES OF PROPOSED EQUIPMENT MAY BE REQUIRED TO BE SUBMITTED TO THE ENGINEER FOR REVIEW NO LATER THAN TEN (10) DAYS BEFORE BIDS ARE SUBMITTED. MANUFACTURERS OF PRODUCTS ACCEPTED BY THE ARCHITECT AND ENGINEER WILL BE LISTED IN AN ADDENDUM TO THE SPECIFICATIONS AS AN ACCEPTABLE SUBSTITUTION EQUIPMENT ACCEPTED AS DETAILED BELOW AND SHALL BE SHOWN AS A SEPARATE ADD OR DEDUCT PRICE TO BE FACTORED INTO THE BASE BID PRICE BY THE ARCHITECT AND OWNER IF ACCEPTED.

3. SHOULD THE CONTRACTOR PROPOSE TO FURNISH MATERIALS AND EQUIPMENT OTHER THAN THOSE SPECIFIED OR APPROVED BY ADDENDUM, SUBMIT A WRITTEN REQUEST FOR SUBSTITUTIONS TO THE ARCHITECT AT THE BID OPENING. THE REQUEST SHALL BE AN ALTERNATE TO THE ORIGINAL BID; BE ACCOMPANIED WITH COMPLETE DESCRIPTIVE (MANUFACTURER, BRAND NAME, CATALOG NUMBER, ETC.) AND TECHNICAL DATA FOR ALL ITEMS, FAILURE BY THIS CONTRACTOR TO SUBMIT THE REQUISITE DOCUMENTATION DETAILED ABOVE SHALL BE UNDERSTOOD BY THE ARCHITECT AND ENGINEER TO INDICATE THAT SUBSTITUTE EQUIPMENT WILL NOT BE PRESENTED BY THE CONTRACTOR FOR CONSIDERATION. SUCH SUBSTITUTIONS WILL NOT BE CONSIDERED AFTER THE BID OPENING DATE AND DELAY OF PROJECT WILL NOT BE PERMITTED FOR FURTHER INSPECTION AND EVALUATION AFTER THIS DATE.

4. WHERE SUCH SUBSTITUTIONS ALTER THE DESIGN OR SPACE REQUIREMENTS INDICATED ON THE DRAWINGS, INCLUDE ALL ITEMS OF COST FOR THE REVISED DESIGN AND CONSTRUCTION INCLUDING COST OF ALL ALLIED TRADES INVOLVED.

5. ACCEPTANCE OR REJECTION OF THE PROPOSED SUBSTITUTIONS SHALL BE SUBJECT TO APPROVAL OF THE ARCHITECT BY AN ENGINEER. IF REQUESTED, THE CONTRACTOR SHALL SUBMIT (AT HIS COST) INSPECTION SAMPLES OF BOTH THE SPECIFIED AND PROPOSED SUBSTITUTE ITEMS.

6. IN ALL CASES WHERE SUBSTITUTIONS ARE PERMITTED, THE CONTRACTOR SHALL BEAR ANY EXTRA COST OF EVALUATING THE QUALITY OF THE MATERIAL AND EQUIPMENT TO BE PROVIDED, INCLUDING ALL ARCHENGINEER FEES ASSOCIATED WITH CHANGE.

G. TESTING AND PLACING IN SERVICE

1. ANY MATERIAL OR EQUIPMENT FAILING A TEST SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

2. TESTS SHALL INCLUDE THE FOLLOWING:

- MEASURE THE LOAD ON EACH PHASE OF THE MAIN SERVICE AND EACH PHASE OF EVERY FEEDER UNDER FULL LOAD CONDITIONS.
- MEASURE THE NO-LOAD AND FULL LOAD VOLTAGES (PHASE TO PHASE, PHASE TO NEUTRAL AND PHASE TO GROUND FOR EACH PHASE OF EACH SERVICE, OF EACH SEPARATELY DERIVED SYSTEM, AND AT EACH PANEL BOARD OR TRANSFORMER).
- MEASURE THE GROUND RESISTANCE OF THE MAIN SERVICE GROUNDING ELECTRODE AND THE GROUND RESISTANCE OF EACH SEPARATELY DERIVED SYSTEM'S GROUNDING ELECTRODE.
- MAKE INSULATION RESISTANCE TESTS ON ALL DRY TYPE TRANSFORMERS AND MOTORS.

H. INTERFERENCES

1. BEFORE THE INSTALLATION OF ANY ITEM BEGINS, THE ELECTRICAL CONTRACTOR SHALL CAREFULLY ASCERTAIN THAT IT DOES NOT INTERFERE WITH CLEARANCES FOR THE ERECTION OF FINISH BEAMS, COLUMNS, PILASTERS, WALLS OR OTHER STRUCTURAL OR ARCHITECTURAL MEMBERS AS SHOWN ON THE ARCHITECTURAL DRAWINGS. IF ANY WORK IS INSTALLED AND THE ARCHITECTURAL DESIGN CANNOT BE FOLLOWED, THIS CONTRACTOR SHALL, AT HIS OWN EXPENSE, MAKE CHANGES IN HIS WORK AS DIRECTED BY THE ARCHITECT TO PERMIT THE COMPLETION OF THE ARCHITECTURAL WORK IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.

2. IT SHALL BE THE DUTY OF THIS CONTRACTOR TO REPORT ANY INTERFERENCES BETWEEN HIS WORK AND THAT OF ANY OF THE OTHER CONTRACTORS AS SOON AS THEY ARE DISCOVERED. THE ARCHITECT SHALL DETERMINE WHICH EQUIPMENT WILL BE RELOCATED, REGARDLESS OF WHICH WAS INSTALLED FIRST. HIS DECISION WILL BE FINAL.

I. QUALITY ASSURANCE

1. ALL PRODUCTS SHALL BE NEW AND OF THE TYPE AND QUALITY SPECIFIED. WHERE MATERIALS, EQUIPMENT, APPARATUS OR OTHER PRODUCTS ARE SPECIFIED BY MANUFACTURE, BRAND NAME, TYPE OF CATALOG NUMBER, SUCH DESIGNATION SHALL ESTABLISH THE STANDARDS OF THE DESIRED QUALITY AND STYLE. IT IS THE INTENT OF THESE SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY OF MATERIALS AND EQUIPMENT INSTALLED.

BASIC ELECTRICAL MATERIALS AND METHODS

A. NAMEPLATES

1. GENERAL: FURNISH AND MOUNT ON EACH PANEL BOARD, SWITCHBOARD (INCLUDING BRANCH SWITCHES), LARGE JUNCTION BOX, SAFETY SWITCH, STARTER, REMOTE CONTROL, PUSH BUTTON STATION, AND ALL SIMILAR CONTROLS, A NAMEPLATE DESCRIPTIVE OF THE EQUIPMENT OR EQUIPMENT CONTROLLED.

2. PROVIDE BLACK AND WHITE NAMEPLATES CONSTRUCTED FROM LAMINATED PHENOLIC WITH A WHITE CENTER CORE. LETTERS SHALL BE ENGRAVED IN THE PHENOLIC TO FORM WHITE LETTERS 3/8" HIGH. FASTEN THE NAMEPLATES WITH SCREWS AND AN ADHESIVE TYPE FASTENER.

B. MOUNTING ACCESSORIES

1. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL ANGLE IRON, CHANNEL IRON, RODS, SUPPORTS, HANGERS, CONCRETE OR PLYWOOD REQUIRED TO INSTALL, MOUNT AND SUPPORT ANY ELECTRICAL EQUIPMENT OR DEVICE CALLED FOR ON THE PLANS.

2. SUPPORTING MATERIAL SHALL BE COMPLETE WITH HANGERS, CONNECTORS, BOLTS, CLAMPS AND NECESSARY ACCESSORIES TO MAKE A COMPLETE INSTALLATION. SUPPORTING MATERIAL SHALL BE GALVANIZED, PAINTED OR OTHERWISE SUITABLY FINISHED. PRODUCTS BY BRINKLEY, STEEL CITY OR RACO WILL BE ACCEPTABLE.

3. ALL SURFACE-MOUNTED EQUIPMENT ON BLOCK WALLS SHALL BE MOUNTED ON 3/4" PLYWOOD BACKBOARD. ALL FLOOR-MOUNTED EQUIPMENT SHALL BE INSTALLED ON A 4" HIGH CONCRETE HOUSEKEEPING PAD.

C. EXECUTION

1. THE ELECTRICAL WORK FOR CONSTRUCTION PROPOSED SHALL CONFORM TO ALL FEDERAL (OSHA) STATE, ALL SPECIFIC SAFETY REQUIREMENTS AND THE REQUIREMENTS OF THE CURRENT EDITION OF THE NEC.

2. CHECK THE HVAC AND PLUMBING SPECIFICATIONS FOR ELECTRICAL REQUIREMENTS AND INCLUDE THE SAME IN THE CONTRACT COST.

3. EQUIPMENT CONNECTIONS, STARTERS, DISCONNECT SWITCHES, CONTROL TRANSFORMERS AND PUSHBUTTON STATIONS FOR THE EQUIPMENT FURNISHED BY THE OWNER OR UNDER A SEPARATE CONTRACT SHALL BE INSTALLED AND CONNECTED UNDER THIS DIVISION, AS INDICATED ON THE CONTRACT DRAWINGS.

4. ALL CUTTING, PATCHING, EXCAVATING, BACKFILLING AND CONCRETE WORK RELATED TO THIS CONTRACT WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. THIS CONTRACTOR SHALL ASSUME THE RESPONSIBILITY OF PROVIDING THE SLEEVES, CHASES AND OPENINGS NECESSARY FOR THE ELECTRICAL INSTALLATION AND FOR THEIR REPAIR IN AN ACCEPTABLE MANNER, AS DETERMINED BY THE ARCHITECT. ALL HOLES SHALL BE CORE-DRILLED. PROVIDE FIRE STOP IN ALL OPENINGS CREATED THROUGH FIRE-RATED WALLS, FLOORS OR CEILINGS.

5. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED ACCESS PANELS NECESSARY FOR HIS WORK, COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION.

H. MATERIALS AND WORKMANSHIP

1. ALL WORK SHALL BE INSTALLED IN A PRACTICAL AND WORKMANLIKE MANNER, BY MECHANICS SKILLED IN THE SEVERAL TRADES NECESSARY.

2. ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS AND SHALL BE THE BEST OF THEIR SEVERAL KINDS UNLESS SPECIFIED OR INDICATED ON THE DRAWINGS TO THE CONTRARY.

3. DURING EACH PHASE AND AT THE COMPLETION OF THE CONSTRUCTION, THIS CONTRACTOR SHALL REMOVE ALL DEBRIS AND EXCESS MATERIALS CAUSED BY HIS WORK. HE SHALL LEAVE THE AREA OF OPERATION BROOM CLEAN.

4. ALL ELECTRICAL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OR ETL LABEL.

5. THIS CONTRACTOR SHALL GUARANTEE HIS WORKMANSHIP AND MATERIAL (LAMPS EXCEPTED) FOR A PERIOD OF ONE YEAR FROM THE DATE OF BUILDING OPENING AND LEAVE HIS WORK IN PERFECT ORDER AT THE COMPLETION. SHOULD DEFECTS DEVELOP WITHIN THE GUARANTEE PERIOD, THE CONTRACTOR SHALL, UPON NOTICE OF THE SAME, REMEDY THE DEFECTS AND HAVE ALL DAMAGES TO OTHER WORK OR FURNISHINGS CAUSED BY THE REPAIRS CORRECTED AT HIS EXPENSE TO THE CONDITION BEFORE SUCH DAMAGE.

I. SCOPE OF WORK

1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, STORAGE, UNPACKING AND PLACEMENT, TO INCLUDE BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS:

- COMPLETE POWER AND LIGHTING DISTRIBUTION SYSTEM INCLUDING ALL PANELS AND FEEDERS.
- COMPLETE BRANCH CIRCUIT WIRING SYSTEM.
- COMPLETE POWER WIRING FOR ALL AIR CONDITIONING EQUIPMENT, PLUMBING SYSTEM, HEATING EQUIPMENT, VENTILATING AND EXHAUST EQUIPMENT.
- LIGHTING FIXTURE INSTALLATION, INCLUDING ALL FLUORESCENT LAMPS.
- COMPLETE TELEPHONE AND COMMUNICATION CONDUIT SYSTEM INCLUDING BOXES, PLATES, JACKS, ETC., AS SPECIFIED, SHOWN ON THE DRAWINGS AND REQUIRED BY THE LOCAL TELEPHONE COMPANY AND/OR OWNER.
- TEMPORARY ELECTRICAL POWER AND LIGHTING AS REQUIRED FOR CONSTRUCTION.
- TESTING OF ALL CABLES AND CIRCUIT WIRING AFTER INSTALLATION.
- EXIT LIGHT SYSTEM.
- WIRING DEVICES.
- LIGHTING CONTROLS.
- GROUNDING OF THE ELECTRICAL SYSTEM.
- COMPLETE FIRE ALARM SYSTEM INCLUDING CABLES, CONDUITS, BOXES ANY ACCESSORIES AS REQUIRED BY THE OWNER.
- IDENTIFY RACEWAYS AND CABLES WITH COLOR BANDING AS FOLLOWS:

2. COLORS:

- FIRE ALARM SYSTEM: RED
- TELECOMMUNICATION SYSTEM: BLUE AND GRAY.
- SECURITY SYSTEM: YELLOW.
- GROUND SYSTEM: GREEN.

GROUNDING AND BONDING:

A. GROUND ALL EQUIPMENT PER N.E.C.

B. ALL CONDUITS SHALL CONTAIN A CODE-SIZED GROUND WIRE SIZED PER N.E.C. IN ADDITION TO THE CONDUCTORS SHOWN ON THE PLANS. WHERE CIRCUIT CONDUCTORS ARE INCREASED IN SIZE FOR VOLTAGE DROP, THE GROUND WIRE SIZE SHALL BE INCREASED PROPORTIONATELY.

C. AFTER INSTALLING GROUNDING SYSTEM BUT BEFORE PERMANENT ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, TEST FOR COMPLIANCE WITH REQUIREMENTS.

WIRE AND CABLE:

A. COLOR CODE CONDUCTORS (EXCEPT CONTROL AND INSTRUMENTATION CONDUCTORS) AS FOLLOWS:

| | |
|------------------|------------------|
| 208/120V SYSTEM: | 480/277V SYSTEM: |
| PHASE A: BLACK; | PHASE A: BROWN; |
| PHASE B: RED; | PHASE B: ORANGE; |
| PHASE C: BLUE; | PHASE C: YELLOW; |
| NEUTRAL: WHITE; | NEUTRAL: GRAY; |
| GROUND: GREEN. | GROUND: GREEN. |

1. #12AWG AND #10AWG CONDUCTORS SHALL HAVE CONTINUOUS INSULATION COLOR, AS LISTED ABOVE.

2. COLOR CODE CONDUCTORS LARGER THAN ABOVE, WHICH DO NOT HAVE CONTINUOUS INSULATION COLOR BY APPLICATION, OF AT LEAST TWO LAPS OF COLORED TAPE ON EACH CONDUCTOR AT ALL POINTS OF ACCESS INCLUDING JUNCTION BOXES. COLOR TAPE SHALL BE THE EQUAL OF 3M PRODUCTS SCOTCH #35.

3. CONDUCTORS SHALL BE SOFT ANNEALED COPPER INSULATED FOR 600 VOLTS UNLESS SPECIFICALLY INDICATED OTHERWISE. ALUMINUM CONDUCTORS ARE NOT ALLOWED ON THIS PROJECT.

4. ALL CONDUCTORS SHALL BE OTHER CODED THROUGHOUT AND NUMBERED AND TAGGED AT EACH JUNCTION BOX, PANEL BOARD AND DEVICES WITH SUITABLE FIREPROOF TAGS OR ADHESIVE IDENTIFICATION BANDS.

B. INSULATION TYPE SHALL BE TYPE THWN FOR WIRE SIZES #8AWG AND LARGER AND THHN OR THWN FOR #10AWG AND SMALLER. THHN SHALL NOT BE USED IN WET OR DAMP LOCATIONS. ALL WIRES AND CABLES SHALL BE COPPER AND RATED FOR 600 VOLTS.

C. FLEXIBLE CORD SHALL BE HEAVY DUTY TYPE SO WITH AN EQUIPMENT GROUND CONDUCTOR IN ADDITION TO THE CURRENT CARRYING CONDUCTORS.

D. MINIMUM SIZE:

1. LIGHTING AND POWER #12AWG CONDUCTORS FOR 120VOLT, 20AMP CIRCUIT AND 227VOLT, 20AMP CIRCUIT, UNLESS OTHERWISE INDICATED.

2. CONTROL CONDUCTORS SHALL BE #14AWG FOR NEC CLASS I AND #16AWG FOR NEC CLASS II.

3. 120VOLT, 20AMP CIRCUITS OVER 65 FEET IN LENGTH AND 277VOLT, 20AMP CIRCUIT OVER 130 FEET IN LENGTH FROM THE POINT OF SUPPLY TO THE FIRST OUTLET SHALL BE #10AWG.

4. 120VOLT, 20AMP CIRCUITS OVER 120 FEET IN LENGTH AND 277VOLT, 20AMP CIRCUIT OVER 240 FEET IN LENGTH FROM THE POINT OF SUPPLY TO THE FIRST OUTLET SHALL BE #8AWG.

5. 120VOLT, 20AMP CIRCUITS OVER 180 FEET IN LENGTH AND 277VOLT, 20AMP CIRCUIT OVER 360 FEET IN LENGTH FROM THE POINT OF SUPPLY TO THE FIRST OUTLET SHALL BE #6AWG.

E. CONDUCTORS #8AWG AND LARGER SHALL BE STRANDED.

F. CONDUCTORS #10AWG AND SMALLER SHALL BE SOLID.

G. INSTALL WIRING IN CONDUIT. CONCEALED WIRING IN WALLS OR ABOVE CEILINGS, OR EXPOSED IN UNFINISHED AREAS (WHERE NOT SUBJECT TO PHYSICAL DAMAGE) MAY BE RUN IN MC OR AC CABLE.

H. CONNECT #10AWFG AND SMALLER WIRES WITH CONSTANT PRESSURE EXPANDABLE SPRING TYPE CONNECTORS, "SCOTCHLOK" BY 3M OR B-CAP BY BUCHANAN.

I. CONNECT #8AWG AND LARGER WIRES WITH COMPRESSION CONNECTORS OR SPLICES AS MANUFACTURED BY BURNDY OR T&B.

J. INSULATE SPLICING CONNECTORS TO AT LEAST 200% OF THE WIRE INSULATION. USE PRE-STRETCHED TUBING CONNECTOR INSULATORS, 3M PST FOR #2 AND LARGER CONDUCTORS.

K. PULL CONDUCTORS USING RECOGNIZED METHODS AND EQUIPMENT LEAVING AT LEAST 6" WIRE AT ALL JUNCTION BOXES FOR CONNECTIONS. CLEANUP EACH CONDUIT SYSTEM BEFORE PULLING WIRE.

L. FORM AND TIE ALL WIRING IN PANEL BOARDS.

M. THERE SHALL BE NO WIRE NUT JOINTS OR SPLICES MADE INSIDE SWITCHBOARDS/PANELBOARDS.

N. BRANCH CIRCUIT WIRE SIZES (AND CONDUITS) SHALL BE INCREASED FROM THOSE INDICATED ON THE PLANS TO PREVENT EXCESSIVE VOLTAGE DROP. BRANCH CIRCUITS SHALL BE INSTALLED WITH WIRES OF SUFFICIENT SIZE SO THAT VOLTAGE DROP BETWEEN THE PANEL AND THE LOADS DOES NOT EXCEED LIMIT OF 3%.

O. WIRE SIZES SHALL BE BASED ON THE 60 DEGREES C. AMPACITIES FOR WIRE SIZES #14-1AWG, AND 75 DEGREES C. AMPACITIES FOR WIRE SIZES #10AWG AND LARGER.

P. CIRCUITS MAY BE MULTI-PLEXED IN CONDUIT PROVIDED WIRE IS PROPERLY DERATED AND CONDUIT SIZED PER CODE. UNDER NO CIRCUMSTANCE SHALL MORE THAN (8) CURRENT CARRYING CONDUCTORS BE RUN IN A SINGLE CONDUIT.

RACEWAYS AND BOXES

A. RACEWAYS

1. ALL WIRE SHALL BE RUN IN ACCORDANCE WITH CODE IN CORROSION RESISTANT, RIGID, THREADED, METAL CONDUIT OR ELECTRICAL METALLIC TUBING (E.M.T.) UNLESS OTHERWISE SPECIFICALLY STATED HEREIN:

- CONDUIT IN EXTERIOR WALLS, BELOW FLOOR SLAB, OR UNDERGROUND SHALL BE RIGID, THREADED, GALVANIZED, HEAVY WALL TYPE. UNDERGROUND RIGID CONDUIT SHALL BE PVC COATED OR TAPED WITH AT LEAST TWO LAPS OF ANTI-CORROSION TAPE "SCOTCHCRAP #50" - 3M PRODUCT.
- CARLON PVC TYPE 40 HEAVY WALL CONDUIT WITH GROUND WIRE MAY BE USED BELOW FLOOR SLAB OR UNDERGROUND IN LIEU OF RIGID, THREADED, GALVANIZED CONDUIT. PVC 40 CONDUIT SHALL NOT BE RUN IN OR ABOVE FLOOR SLAB. PVC CONDUIT SHALL TERMINATE BELOW FLOOR SLAB WITH RIGID, THREADED METAL CONDUIT ADAPTER. CONDUIT ABOVE SLAB SHALL BE METAL.
- CONDUIT RUN EXPOSED TO THE WEATHER SHALL BE HEAVY WALL, METAL THREADED TYPE.
- PROVIDE BRANCH CIRCUIT CONDUCTORS THAT ARE TYPE THHN OR THWN AS REQUIRED. MC CABLE CAN BE USED FOR LIGHT FIXTURE TO LIGHT FIXTURE.
- LIQUID TIGHT FLEXIBLE, GALVANIZED STEEL CONDUITS WITH CONTINUOUS COPPER BONDING CONDUCTOR SHALL BE USED FOR CONNECTION TO MOTORS AND AT OTHER LOCATION WHERE VIBRATION MOVEMENT IN ENCOUNTERED.

2. ANY CONDUITS PASSING THROUGH EXPANSION JOINT SHALL BE PROVIDED WITH EXPANSION/DEFLECTION FITTING.

3. CONDUIT SIZE SHALL BE 3/4" MINIMUM.

4. NO MORE THAN FOUR (4) 90 DEGREE BENDS IN THE SINGLE RUN.

5. CONDUIT SHALL BE SECURELY FASTENED IN PLACE.

6. ALL CONDUITS AND ITS FITTINGS SHALL CONFIRM TO ITS APPLICABLE UL STANDARD.

7. BUSHINGS LARGER THAN 1" SHALL BE GROUNDING TYPE.

8. ALL CONDUIT SHALL BE CONCEALED IN WALLS, FLOOR AND CEILINGS WHEREVER POSSIBLE. EXPOSED CONDUIT IN FINISHED AREAS WILL NOT BE PERMITTED. EXPOSED CONDUIT WILL BE PERMITTED IN UNFINISHED AREAS WITH THE SPECIFIC APPROVAL OF THE ARCHITECT.

9. USE FLEXIBLE CONDUIT FOR THE CONNECTION TO RECESSED OR SEMI-RECESSED LIGHTING FIXTURES (6" LENGTH MAXIMUM). USE LIQUID TIGHT METAL CONDUIT FOR ALL CONNECTIONS TO MOTORS AND OTHER EQUIPMENT SUBJECT TO VIBRATION AND IN AREAS SUBJECT TO MOISTURE.

10. USE WATERTIGHT JOINTS WITH BURIED AND CONCRETE ENCASED CONDUIT. ALL BURIED CONDUITS OUTSIDE OF BUILDINGS SHALL HAVE A MINIMUM OF 24" OF COVER. METAL CONDUITS BURIED IN EARTH SHALL BE PAINTED (TWO COATS) WITH HEAVY ASPHALTUM PAINT.

11. SUPPORT RUNS OF CONDUIT AS DETAILED IN THE APPROPRIATE TABLE OF THE NATIONAL ELECTRICAL CODE (NEC).

12. INSTALL EXPOSED RUNS OF CONDUIT AND CONDUIT ABOVE LAY-IN CEILINGS PARALLEL OR PERPENDICULAR TO THE WALLS, STRUCTURAL MEMBERS OF INTERSECTIONS OF VERTICAL PLANES AND CEILINGS. PROVIDE RIGHT ANGLE TURNS USING FITTINGS OR SYMMETRICAL BENDS. SUPPORT CONDUITS WITHIN 1" OF ALL CHANGES IN DIRECTION.

13. IF A CONDUIT IS SUSPENDED, IT SHALL BE SUPPORTED ON TRAPEZE HANGERS WHICH USE "ALL-THROW" RODS FROM THE STRUCTURAL STEEL. THE USE OF CEILING SUPPORT WIRE OR SIMILAR MATERIAL WILL NOT BE ACCEPTED.

14. INSTALL EMPTY CONDUIT FOR FUTURE USE AS INDICATED ON THE DRAWINGS. CONDUIT SHALL BE COMPLETE WITH JETLINE OR PULL ROPE, JUNCTION/OUTLET BOXES, TILE RINGS AND APPROPRIATE COVER PLATES.

15. PROVIDE PITCH POCKETS WHERE CONDUITS PENETRATE THE ROOF.

16. THREAD LUBRICATION/SEALANT IS REQUIRED ON OUTDOOR AND UNDERGROUND THREADED METAL JOINTS.

17. INSTALL FIRE SEAL FITTINGS WHERE CONDUITS PENETRATE CONCRETE FLOOR SLABS OR MASONRY WALLS REQUIRED TO BE FIRE RATED.

18. HORIZONTAL PORTION OF CONDUIT EXPOSED ON THE ROOF AND FEEDING EQUIPMENT SHALL NOT BE MORE THAN 5'-0" UNLESS THE WRITTEN APPROVAL FROM ARCHITECT OR ENGINEER IS OBTAINED.

B. PULL AND JUNCTION BOXES

1. INSTALL PULL AND JUNCTION BOXES WHERE SHOWN ON THE DRAWINGS, AND WHERE REQUIRED FOR CHANGES IN DIRECTION, AT JUNCTION POINTS, AND TO FACILITATE WIRE PULLING. FURNISH BOX SIZES IN ACCORDANCE WITH NEC UNLESS LARGER BOXES ARE INDICATED.

2. PROVIDE STEEL BOXES AND REMOVABLE COVERS OF CODE GAGE, HOT ROLLED SHEET STEEL, HOT DIPPED GALVANIZED INSIDE AND OUTSIDE. FOR ABOVE GROUND WORK. FURNISH WEATHERPROOF BOXES WHEN INSTALLED ABOVE GROUND OUTSIDE.

3. PROVIDE CAST IRON BOXES, HOT DIPPED GALVANIZED INSIDE AND OUTSIDE WHERE SHOWN ON THE DRAWINGS. FURNISH REMOVABLE COVERS WITH GASKETS AND STAINLESS STEEL, BRASS OR BRONZE SCREWS.

4. PROVIDE CONCRETE BOXES FOR UNDERGROUND WORK UNLESS OTHERWISE INDICATED ON THE DRAWINGS. FURNISH STEEL FRAMES AND COVERS WITH THE COVER ATTACHED TO THE FRAME WITH HEXAGON HEAD, BRASS OR BRONZE CAP SCREWS, 3/8" DIAMETER. PROVIDE A RUBBER GASKET FOR SEALING BETWEEN THE COVER AND THE FRAME. PAINT THE COVER WITH TWO COATS OF HEAVY ASPHALTUM.

C. OUTLET BOXES

1. USE SHEET STEEL BOXES, ZINC COATED OR CADMIUM PLATED, FOR CONCEALED INTERIOR WORK.

2. USE CAST BOXES, ZINC-CADMIUM FINISH MALLEABLE IRON, FOR EXPOSED INTERIOR WORK, AND FOR EXPOSED OR CONCEALED WORK IN WET, DAMP OR EXTERIOR LOCATIONS. CAST BOXES SHALL BE SERIES FD BY CROUSE HINDS OR APPLETON.

3. WALL BOX SIZES (MINIMUM) SHALL BE 4" SQUARE x 2-1/2" DEEP WHERE WALL CONSTRUCTION PERMITS. WHERE WALL CONSTRUCTION DICTATES, THE WIDTH MAY BE REDUCED TO 2-1/8" OR 1-1/2" UNDER SPECIAL CONDITIONS.

4. FIXTURE OUTLETS IN CEILINGS (MINIMUM) SHALL BE 4" OCTAGONAL x 1-1/2" DEEP (4-11/16" OCTAGONAL x 2-1/2" DEEP WHERE REQUIRED TO ACCOMMODATE LARGER CONDUIT OR LARGER CODE OF WIRES).

5. GANG BOXES SHALL BE ONE PIECE (MINIMUM), 2-1/8" DEEP.

6. PROVIDE CAST IRON, CONCRETE-TIGHT FLOOR BOXES WITH ADJUSTABLE COVERS SET FLUSH AND LEVEL WITH THE FINISHED FLOOR, WITH OUTLETS AS INDICATED ON THE DRAWINGS. PROVIDE HUBBELL #B-2420, OR #2000 SERIES BOXES WITH LEVELING SCREWS. FLUSH TYPE COVERS AND OPENINGS TO SERVE OUTLETS USED. FURNISH FLUSH CAPS FOR CLOSING OFF BOX WHEN NOT IN USE.

7. FLUSH MOUNT BOXES IN ALL FINISHED WALLS. INSTALL THE PLASTER RINGS IN DRYWALLED PLASTERED WALLS AND RAISED COVERS AS REQUIRED IN WALLS WITH OTHER FINISHES SO THAT THE COVER PLATES FIT TIGHTLY AGAINST BOXES OR RINGS, 3/16" MAXIMUM GAPS ARE ALLOWED FOR NONCOMBUSTIBLE WALLS.

8. ADJUST LOCATION OF OUTLETS IN MASONRY OR TILE CONSTRUCTION TO OCCUR IN THE NEAREST JOINT TO THE HEIGHT SPECIFIED. HEIGHTS SHALL MEET A.D.A. REQUIREMENTS.

9. SUPPORT ALL BOXES TO MAINTAIN PROPER ALIGNMENT AND RIGIDITY.

10. CLEAN BOXES OF ALL FOREIGN MATTER PRIOR TO THE INSTALLATION OR WIRING OF DEVICES.

11. MOUNTING HEIGHTS ON THE DRAWINGS ARE TO THE CENTERLINE OF THE BOX UNLESS OTHERWISE NOTED.

WIRING DEVICES

A. WIRING DEVICE COLOR SHALL BE WHITE, UNLESS OTHERWISE INDICATED.

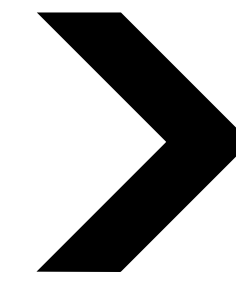
B. PROVIDE TOTALLY ENCLOSED, 20 AMPERE, 120/277 VOLT, QUIET A/C GENERAL USE SNAP SWITCHES.

C. SWITCHES SHALL BE SPECIFICATION GRADE AS MANUFACTURED BY LEVITON.

LIGHTING FIXTURE NOTES

1. TYPE 'EM' EMERGENCY FIXTURES AND TYPE 'X' EXIT SIGNS SHALL BE WIRED TO LINE SIDE OF AREA LIGHTING CIRCUIT TO SENSE LOSS OF NORMAL POWER AND PROVIDE CONTINUOUS TRICKLE CHARGE, AND SHALL OPERATE AT A MINIMUM OF 1 1/2 HOURS UPON LOSS OF NORMAL POWER. SEE SCHEDULE.

2. DIRECTIONAL CHEVRONS SHALL CONFORM TO NFPA 5-10.4.1.2 AND SHALL BE IDENTIFIABLE AS A DIRECTIONAL INDICATOR AT A MINIMUM OF 40 FT. UNDER ALL SPACE CONDITIONS. SEE DETAIL BELOW.

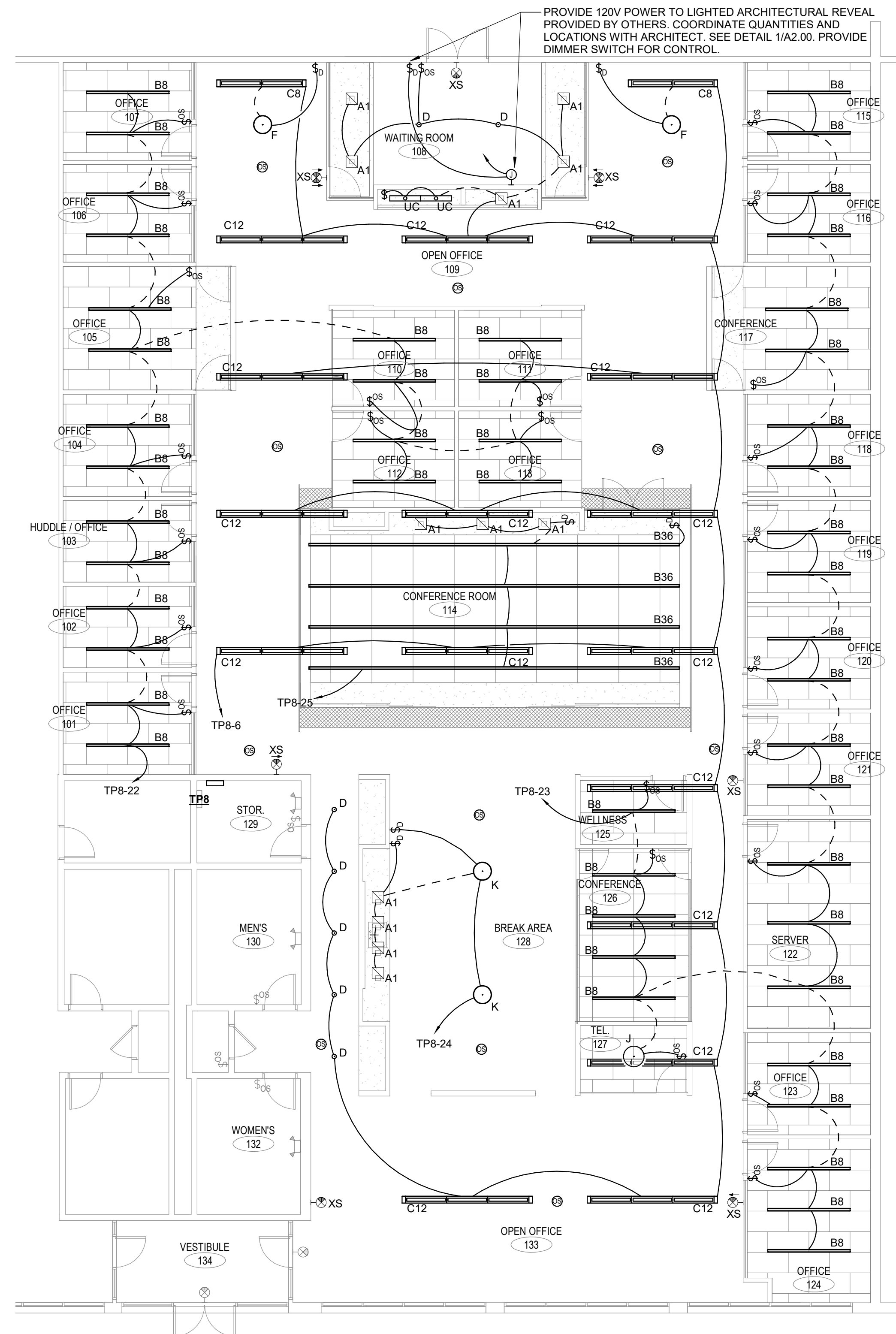


EXIT SIGN DIRECTIONAL INDICATOR

3. ALL FIXTURES TO BE LED WITH 0-10V DRIVERS STANDARD. ALL FIXTURES TO BE COLOR TEMPERATURE 3500°K.
4. PROVIDE ERICO FASTENING PRODUCTS (CADDY) CAT. No. 515 OR 515A LIGHT FIXTURE SUPPORT CLIPS ON ALL RECESSED LIGHT FIXTURES. PROVIDE MINIMUM FOUR (4) PER FIXTURE.
5. IN ADDITION TO THE REQUIREMENTS OF THE IBC AND THE NEC, ALL RECESSED LIGHT FIXTURES SHALL BE PROVIDED WITH SUPPORT WIRES AT A MINIMUM OF FOUR (4) PER FIXTURE AND LOCATED NOT MORE THAN SIX (6") INCHES FROM EACH CORNER, EXTENDED AND ATTACHED TO THE BUILDING STRUCTURE. HANGER WIRES SHALL BE GALVANIZED CARBON STEEL, ASTM A641, SOFT TEMPER, PRE-STRETCHED WITH A YIELD STRESS LOAD OF AT LEAST THREE (3) TIMES DESIGN LOAD BUT NOT LESS THAN 12 GAUGE (0.106"). FOR ROUND FIXTURES OR FIXTURES SMALLER THAN THE CEILING GRID, PROVIDE A MINIMUM OF FOUR (4) WIRES PER FIXTURE AND LOCATE AT EACH CORNER OF THE CEILING GRID IN WHICH THE FIXTURE IS TO BE LOCATED. ADDITIONALLY, WHERE FIXTURES OF SIZES LESS THAN THE CEILING GRID ARE INDICATED TO BE CENTERED IN THE ACOUSTICAL PANEL, SUCH FIXTURES SHALL BE SUPPORTED WITH A MINIMUM OF TWO (2) 3/4" METAL CHANNELS SPANNING AND SECURED TO THE CEILING TEES.
6. VERIFY ALL LIGHT FIXTURE FINISHES WITH ARCHITECT PRIOR TO PURCHASE.
7. VERIFY ALL LIGHT FIXTURE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.

LIGHTING FIXTURE SCHEDULE

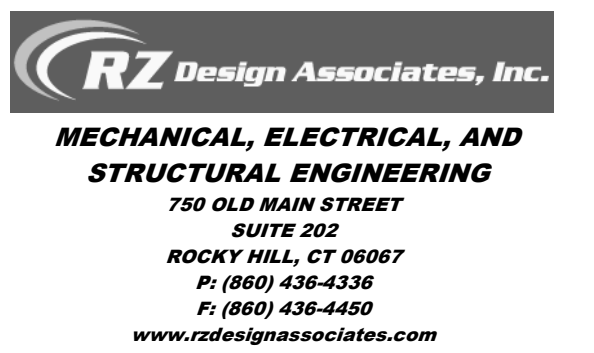
| TYPE | MANUFACTURER | MODEL | LAMPS | | | VOLTAGE | REMARKS |
|------|-----------------|--|----------|---------|-------------|---------|--|
| | | | LUMENS | WATTAGE | LUMENS/WATT | | |
| A1 | USAI | Z3SDL C 14M2 35KS 40 S WH NC1 UNV D6F | 950 lm | 14 W | 68 lm/W | 120 V | |
| B8 | LUX ILLUMINAIRE | EOS2.0-R-G9-500-8-35K-8-1-UNV-S1-W | 4000 lm | 38 W | 105 lm/W | 120 V | |
| B36 | LUX ILLUMINAIRE | EOS2.0-R-G9-500-36-35K-8-1-UNV-S1-W | 18000 lm | 171 W | 105 lm/W | 120 V | |
| C8 | PEERLESS | EGRM1L LLP 8FT MSL4 80CRI 35K I1000LMF MIN1 ZT 120 SCT NS SNS F2/72A C041 SLP | 7880 lm | 56 W | 141 lm/W | 120 V | COORDINATE MOUNTING HEIGHT WITH ARCHITECT |
| C12 | PEERLESS | EGRM1L LLP 12FT MSL4 80CRI 35K I1000LMF MIN1 ZT 120 SCT NS SNS F2/72A C041 SLP | 11820 lm | 84 W | 141 lm/W | 120 V | COORDINATE MOUNTING HEIGHT WITH ARCHITECT |
| D | USAI | BLSD5 16C3 35KS 50 S WH PJ2 UNV D6F PMB P2 36 WH | 1475 lm | 16 W | 92 lm/W | 120 V | COORDINATE STEM LENGTH WITH ARCHITECT |
| EM | LITHONIA | ELM2L | 440 lm | 5 W | 88 lm/W | 120 V | |
| F | BUZZSHADE | Pendant LED Globe Medium | 1500 lm | 19 W | 79 lm/W | 120 V | COORDINATE ALL FINISHES AND MOUNTING HEIGHT WITH ARCHITECT |
| J | SONNEMAN | 2763 16 STIX 3-ARM PENDANT | 4300 lm | 42 W | 102 lm/W | 120 V | COORDINATE MOUNTING HEIGHT WITH ARCHITECT |
| K | SONNEMAN | SUSPENDERS 10-BAR FREE FORM ZIG ZAG MONLINE CRYSTAL CYLINDER PENDANTS SLS1150 | 4000 lm | 75 W | 53 lm/W | 120 V | COORDINATE ALL FINISHES AND MOUNTING HEIGHT WITH ARCHITECT |
| UC | LITHONIA | UCEL 36IN 30K 90CRI WH | 1162 lm | 15 W | 79 lm/W | 120 V | |
| XS | LITHONIA | EDG 1 R EL | | 5 W | | 120 V | |



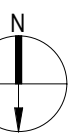
CT INNOVATIONS - THE DISTRICT

470 James Street
New Haven, CT, 06513

CONSULTANTS



KEY PLAN



PROJECT DATA

| | |
|-------------------------|--------------|
| PROJECT NUMBER | 18-000 |
| CURRENT SUBMISSION DATE | 08/29/19 |
| DRAWN | JJZ |
| CHECKED | BJZ |
| SCALE | As indicated |

HISTORY OF SUBMISSIONS

| No. | Date | Description |
|-----|------|-------------|
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DD SET

SHEET TITLE

FIRST FLOOR LIGHTING PLAN

E1.01.

Branch Panel: TP8

Location: STOR. 129
Supply From: SURFACE
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000 AMPS SYMMETRICAL
Mains Type: MLO
Mains Rating: 225 A
MCB Rating: 225 A

Notes:

| CKT | Circuit Description | Type | Trip | Poles | A | B | C | Poles | Trip | Type | Circuit Description | CKT | |
|--------------------|--------------------------|-------|------|-------|----------|----------|----------|-------|------|------|--------------------------|-----------------------------|----|
| 1 | Existing Bathroom Recept | 20 A | 1 | 0.4 | 0.2 | | | | 1 | 20 A | Existing RTU Recept | 2 | |
| 3 | Existing Lights | 20 A | 1 | | | 0.0 | 0.2 | | 1 | 20 A | Existing Bathroom Lights | 4 | |
| 5 | Existing Exhaust Fan | 20 A | 2 | | | | | 0.3 | 1.7 | 1 | 20 A | General Lighting | 6 |
| 7 | Existing Exhaust Fan | 20 A | 2 | 0.3 | 1.1 | | | | | 1 | 20 A | Office 107 & 106 RCPTS | 8 |
| 9 | Office 105 RCPTS | 20 A | 1 | | | | | 0.7 | 0.9 | 1 | 20 A | Office 105 RCPT | 10 |
| 11 | Office 104 & 103 RCPTS | 20 A | 1 | | | | | 1.1 | 1.1 | 1 | 20 A | Office 102 & 101 RCPTS | 12 |
| 13 | Conference Room RCPTS | 20 A | 1 | 0.9 | 3.5 | | | | | 1 | 20 A | | 14 |
| 15 | Office 123 & 124 RCPTS | 20 A | 1 | | | 1.3 | 3.5 | | | 3 | 45 A | RTU-1 | 16 |
| 17 | Open Office 133 RCPT | 20 A | 1 | | | | | 0.2 | 3.5 | 1 | 20 A | | 18 |
| 19 | Open Office 133 RCPT | 20 A | 1 | 0.2 | 0.2 | | | | | 1 | 20 A | Open Office 133 RCPT | 20 |
| 21 | Open Office RCPTS | 20 A | 1 | | | 0.7 | 0.8 | | | 1 | 20 A | Office Lighting | 22 |
| 23 | Office Lighting | 20 A | 1 | | | | | 1.1 | 0.2 | 1 | 20 A | Break Area Lighting | 24 |
| 25 | Conference Room Lighting | 20 A | 1 | 0.7 | 0.0 | | | | | 1 | 20 A | Lighted Reveal Waiting Room | 26 |
| 27 | Server 122 RCPT | 20 A | 1 | | | 0.4 | 0.7 | | | 1 | 20 A | Tel 127 RCPTS | 28 |
| 29 | | | | | | | | | | 2 | 20 A | Server RCPT | 30 |
| 31 | Existing Water Heater | 30 A | 2 | 1.8 | 1.3 | | | | | 1 | 20 A | Server RCPT | 32 |
| 33 | | | | | | 1.8 | 1.5 | | | 1 | 20 A | Server RCPT | 34 |
| 35 | Existing Panel Recept | 20 A | 1 | | | 0.2 | 2.3 | | | 1 | 30 A | Server RCPT | 36 |
| 37 | | | | | | 9.3 | 11.2 | | | | | | 38 |
| 39 | TP8A | 100 A | 3 | | | 8.2 | 11.2 | | | 3 | 125 A | Existing RTU | 40 |
| 41 | | | | | | | | | | | | | 42 |
| Total Load: | | | | | 31.1 kVA | 31.9 kVA | 31.0 kVA | | | | | | |
| Total Amps: | | | | | 258.8 A | 266 A | 258.7 A | | | | | | |

Legend:
Blank = Standard, AFI = Arc Fault Circuit Interrupter, GFI = Ground Fault Circuit Interrupter, EPD = Equipment Protection Device, ST = Shunt Trip Circuit Breaker, HACR = Heating, Air Conditioning, Refrigeration Circuit Breaker

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals |
|---------------------|----------------|---------------|------------------|-----------------------------|
| HVAC | 11095 VA | 100.00% | 11095 VA | Total Conn. Load: 94023 VA |
| MTR | 1622 VA | 124.04% | 2012 VA | Total Est. Demand: 80916 VA |
| RCPT | 39369 VA | 62.70% | 24684 VA | Total Conn.: 261 A |
| LITES | 4751 VA | 125.00% | 5939 VA | Total Est. Demand: 224.6 A |
| HEAT | 3500 VA | 100.00% | 3500 VA | |
| AC | 33685 VA | 100.00% | 33685 VA | |

Notes:

Branch Panel: TP8A

Location: STOR. 129
Supply From: TP8
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000 AMPS SYMMETRICAL
Mains Type: MLO
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

| CKT | Circuit Description | Type | Trip | Poles | A | B | C | Poles | Trip | Type | Circuit Description | CKT | |
|--------------------|---------------------------|------|------|-------|---------|---------|---------|-------|------|------|---------------------|---------------------------|----|
| 1 | Server RCPT | 30 A | 1 | 2.3 | 1.3 | | | | 2 | 20 A | Server RCPT | 2 | |
| 3 | Wellness 125 RCPTS | 20 A | 1 | | | 0.7 | 1.3 | | | 1 | 20 A | Fridge RCPT | 4 |
| 5 | Break Area RCPTS | 20 A | 1 | 0.4 | 1.2 | | | 0.9 | 1.2 | 1 | 20 A | Fridge RCPT | 6 |
| 7 | Break Area RCPTS | 20 A | 1 | | | | | | | 1 | 20 A | Fridge RCPT | 8 |
| 9 | Copier RCPT | 20 A | 1 | | | 1.5 | 0.8 | | | 2 | 30 A | AC-1/CU-1 | 10 |
| 11 | Conference Room RCPTS | 20 A | 1 | | | | | 0.9 | 0.8 | 2 | 30 A | | 12 |
| 13 | Office 112 & 110 RCPTS | 20 A | 1 | 1.3 | 1.3 | | | | | 1 | 20 A | Office 111 & 113 RCPTS | 14 |
| 15 | Open Office 109 RCPTS | 20 A | 1 | | | 0.7 | 1.5 | | | 1 | 20 A | Copier Open Office RCPT | 16 |
| 17 | Television RCPTS | 20 A | 1 | | | | | 0.4 | 1.1 | 1 | 20 A | Office 120 & 121 RCPTS | 18 |
| 19 | Office 118 & 119 RCPTS | 20 A | 1 | 1.1 | 0.5 | | | | | 1 | 20 A | Conference Room 117 RCPTS | 20 |
| 21 | Conference Room 117 RCPTS | 20 A | 1 | | | 0.5 | 1.1 | | | 1 | 20 A | Office 115 & 116 RCPTS | 22 |
| 23 | Television RCPTS | 20 A | 1 | | | | | 0.4 | 1.3 | 1 | 20 A | Conference Room 126 RCPTS | 24 |
| 25 | | | | | | | | | | | | | 26 |
| 27 | | | | | | | | | | | | | 28 |
| 29 | | | | | | | | | | | | | 30 |
| 31 | | | | | | | | | | | | | 32 |
| 33 | | | | | | | | | | | | | 34 |
| 35 | | | | | | | | | | | | | 36 |
| 37 | | | | | | | | | | | | | 38 |
| 39 | | | | | | | | | | | | | 40 |
| 41 | | | | | | | | | | | | | 42 |
| Total Load: | | | | | 9.3 kVA | 8.2 kVA | 6.9 kVA | | | | | | |
| Total Amps: | | | | | 79.5 A | 70.1 A | 57.3 A | | | | | | |

Legend:
Blank = Standard, AFI = Arc Fault Circuit Interrupter, GFI = Ground Fault Circuit Interrupter, EPD = Equipment Protection Device, ST = Shunt Trip Circuit Breaker, HACR = Heating, Air Conditioning, Refrigeration Circuit Breaker

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals |
|---------------------|----------------|---------------|------------------|-----------------------------|
| MTR | 1622 VA | 124.04% | 2012 VA | Total Conn. Load: 24409 VA |
| RCPT | 22786 VA | 71.94% | 16393 VA | Total Est. Demand: 18406 VA |
| | | | | Total Conn.: 67.8 A |
| | | | | Total Est. Demand: 51.1 A |

Notes:

STARTER TYPES

| TYPE | DESCRIPTION |
|------|----------------------------|
| SPP | MANUF - SINGLE POINT POWER |

DISCONNECT TYPES

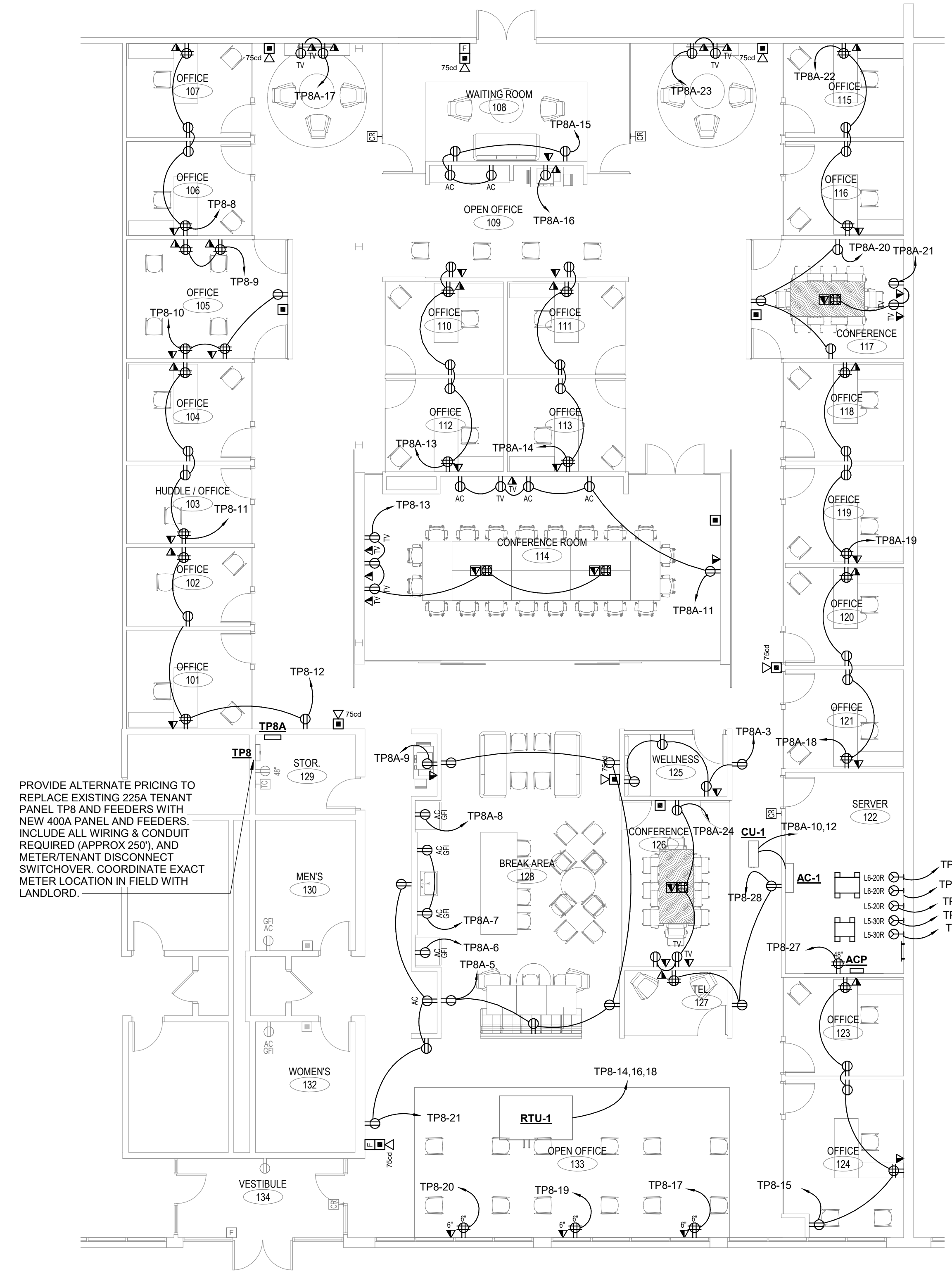
| TYPE | DESCRIPTION |
|------|-----------------------------------|
| FS | MANUF - FUSED SWITCH |
| NFS | MANUF - NON-FUSED SWITCH |
| T | DIV. 26 - THERMAL OVERLOAD SWITCH |

CONTROL TYPES

| TYPE | DESCRIPTION |
|------|----------------------|
| T | DIV. 23 - THERMOSTAT |

MECHANICAL EQUIPMENT COORDINATION SCHEDULE

| TAG | EQUIPMENT INFORMATION | | | | | CIRCUIT INFORMATION | | LOAD | | CONTROL | | STARTER | | DISCONNECT | | REMARKS | | | |
|-------|-----------------------|------|------|-------|----|---------------------|----------|---------------|----------------|---------|---------|---------|------|------------|---------|---------|---------|---------|--|
| | FLA | MCA | MOCF | VOLT | PH | PANEL | NO. | APPARENT LOAD | CLASSIFICATION | TYPE | FURNISH | INSTALL | TYPE | FURNISH | INSTALL | | | | |
| AC-1 | 0.3 A | 1 A | 15 A | 208 V | 1 | TP8A | 10,12 | 62 VA | MTR | T | DIV. 23 | DIV. 23 | SPP | MANUF. | MANUF. | T | DIV. 26 | DIV. 26 | |
| CU-1 | 7.5 A | 11 A | 28 A | 208 V | 1 | TP8A | 10,12 | 1560 VA | MTR | T | DIV. 23 | DIV. 23 | SPP | MANUF. | MANUF. | FS | MANUF. | MANUF. | |
| RTU-1 | 29 A | 33 A | 45 A | 208 V | 3 | TP8 | 14,16,18 | 10430 VA | HVAC | T | DIV. 23 | DIV. 23 | SPP | MANUF. | MANUF. | NFS | MANUF. | MANUF. | |



CT INNOVATIONS - THE DISTRICT
470 James Street
New Haven, CT, 06513

CONSULTANTS

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KEY PLAN

PROJECT DATA

| | |
|-------------------------|--------------|
| PROJECT NUMBER | 18-000 |
| CURRENT SUBMISSION DATE | 08/29/19 |
| DRAWN | JJZ |
| CHECKED | BJZ |
| SCALE | 1/8" = 1'-0" |

HISTORY OF SUBMISSIONS

| No. | Date | Description |
|-----|------|-------------|
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DD SET

SHEET TITLE

FIRST FLOOR POWER PLAN

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