

INTERIOR UPFIT USPS SPOUT SPRINGS, NC CAX

H M CAGLE DRIVE
SPOUT SPRINGS, NC

MAY 17, 2018

100% CONSTRUCTION SET

USPS PROJECT NUMBER: C97932

ARCHITECT
WALKER GROUP
ARCHITECTURE, INC.

409 BROAD STREET
NEW BERN, NC 28560
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PLUMBING/MECHANICAL/ELECTRICAL
ENGINEERING

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WARD GRIFFIN

4223 SOUTH BOULEVARD
CHARLOTTE, NC 28209
(704) 527-2112



| ABBREVIATIONS | GENERAL NOTES | SYMBOLS | VICINITY MAP (N.T.S.) | INDEX OF DRAWINGS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <table border="0"> <tr> <td>APC</td><td>ACOUSTICAL PANEL CEILING</td> <td>EXT</td><td>EXTERIOR</td> <td>OC</td><td>ON CENTER</td> </tr> <tr> <td>ADJ</td><td>ADJACENT</td> <td>F.O.</td><td>FLOOR OPENING</td> <td>OH</td><td>OVERHEAD</td> </tr> <tr> <td>AF</td><td>ABOVE FINISHED FLOOR</td> <td>FDL</td><td>FLOOR FINISH</td> <td>DND</td><td>DO NOT DISTURB</td> </tr> <tr> <td>AL</td><td>ALUMINUM</td> <td>F.E.</td><td>FIRE EXTINGUISHER</td> <td>OP</td><td>OPENING</td> </tr> <tr> <td>ALT</td><td>ALTERNATE</td> <td>FTE</td><td>FINISHED FLOOR ELEVATION</td> <td>PART</td><td>PARTITION</td> </tr> <tr> <td>ATTN</td><td>ATTENTION</td> <td>FL</td><td>FLOOR FINISH</td> <td>P.E.M.B.</td><td>PRE-ENGINEERED METAL BLDG.</td> </tr> <tr> <td>BD</td><td>BOARD</td> <td>FT</td><td>FIRE RETARDANT TREATED FLOORING</td> <td>PC</td><td>PLUMBING CONTRACTOR</td> </tr> <tr> <td>BLK.</td><td>BLOCKING</td> <td>FTC</td><td>FLOOR FINISH TYPICAL</td> <td>P-</td><td>PAINTED</td> </tr> <tr> <td>BLKT</td><td>BLOCKING TYPICAL</td> <td>GA</td><td>GALVANIZED</td> <td>REF</td><td>REFRIGERATOR</td> </tr> <tr> <td>BM</td><td>BEAM</td> <td>SA</td><td>SHALLOW</td> <td>REQD</td><td>REQUIRED</td> </tr> <tr> <td>BOP</td><td>BOTTOM OF PLATE</td> <td>SB</td><td>SHALLOW BENCH</td> <td>RM</td><td>ROOM</td> </tr> <tr> <td>CAB</td><td>CABINET</td> <td>GC</td><td>GENERAL CONTRACTOR</td> <td>RO</td><td>ROUGH OPENING</td> </tr> <tr> <td>CAB</td><td>CABINET</td> <td>GL</td><td>Gypsum BOARD</td> <td>SF</td><td>SQUARE FEET</td> </tr> <tr> <td>CAN</td><td>CANISTER</td> <td>Q</td><td>QUANTITY</td> <td>SM</td><td>SIMILAR</td> </tr> <tr> <td>CL</td><td>CENTERLINE</td> <td>HW</td><td>HANDRAIL</td> <td>S.S.</td><td>STAINLESS STEEL</td> </tr> <tr> <td>CL-HT</td><td>CLEAR HEIGHT</td> <td>HM</td><td>HOLLOW METAL</td> <td>STD.</td><td>STANDARD</td> </tr> <tr> <td>CL-CL</td><td>CLEARANCE</td> <td>HP</td><td>HIGH POINT</td> <td>STL</td><td>STEEL</td> </tr> <tr> <td>CLC</td><td>CLEARANCE</td> <td>HT</td><td>HEIGHT</td> <td>STR.</td><td>STRUCTURE/STRUCTURAL</td> </tr> <tr> <td>CLM</td><td>CONCRETE MASONRY UNIT</td> <td>HVAC</td><td>HEATING, VENTILATION, AIR CONDITIONING</td> <td>SUSP.</td><td>SUSPENDED</td> </tr> <tr> <td>COL</td><td>COLUMN</td> <td>INT</td><td>INTERIOR</td> <td>TC</td><td>TOP CORNER</td> </tr> <tr> <td>CONC</td><td>CONCRETE</td> <td>INS</td><td>INSULATION</td> <td>TO</td><td>TOP GRADE</td> </tr> <tr> <td>CONSTR</td><td>CONSTRUCTION</td> <td>INV</td><td>INVERT</td> <td>TEMP</td><td>TEMPERED</td> </tr> <tr> <td>CONT</td><td>CONTINUOUS</td> <td>JT</td><td>JOINT</td> <td>TH</td><td>THICK</td> </tr> <tr> <td>CONTR</td><td>CONTRACTOR</td> <td>LAV</td><td>LAVATORY</td> <td>TI</td><td>TOP OF JOIST</td> </tr> <tr> <td>DWG</td><td>DRAWING</td> <td>LP</td><td>LOW POINT</td> <td>TM</td><td>TOP OF MASONRY</td> </tr> <tr> <td>EA</td><td>EACH</td> <td>MANUF</td><td>MANUFACTURER</td> <td>TOP</td><td>TOP OF PLATE</td> </tr> <tr> <td>EF</td><td>ELECTRICAL CONTRACTOR</td> <td>MC</td><td>MECHANICAL CONTRACTOR</td> <td>TOP</td><td>TOP OF SLAB</td> </tr> <tr> <td>ELEC</td><td>ELECTRICAL</td> <td>MH</td><td>MANHOLE</td> <td>TOP</td><td>TOP OF WALL</td> </tr> <tr> <td>ENCL</td><td>ENCLOSURE</td> <td>MECH</td><td>MECHANICAL</td> <td>TOP</td><td>TOP OF STEEL</td> </tr> <tr> <td>EQ</td><td>EQUIPMENT</td> <td>MN</td><td>MANNING</td> <td>TS</td><td>TUBE STEEL</td> </tr> <tr> <td>EQC</td><td>EQUIPMENT CONTRACTOR</td> <td>MO</td><td>MOUNTED</td> <td>VS</td><td>VERIFY IN FIELD</td> </tr> <tr> <td>ENC</td><td>ELECTRIC WATER COOLER</td> <td>MTA</td><td>MOUNTED TO ANCHOR</td> <td>VERT</td><td>VERTICAL</td> </tr> <tr> <td>EXIST</td><td>EXISTING</td> <td>MTL</td><td>METAL</td> <td>W</td><td>WOOD</td> </tr> <tr> <td>EXP</td><td>EXPANDED</td> <td>NC</td><td>NOT IN CONTRACT</td> <td>W/W</td><td>WELDED WIRE FABRIC</td> </tr> <tr> <td>EXP-JT</td><td>EXPANSION JOINT</td> <td>N.T.S.</td><td>NOT TO SCALE</td> <td>W/W</td><td>WELDED WIRE FABRIC WITH</td> </tr> </table> | APC | ACOUSTICAL PANEL CEILING | EXT | EXTERIOR | OC | ON CENTER | ADJ | ADJACENT | F.O. | FLOOR OPENING | OH | OVERHEAD | AF | ABOVE FINISHED FLOOR | FDL | FLOOR FINISH | DND | DO NOT DISTURB | AL | ALUMINUM | F.E. | FIRE EXTINGUISHER | OP | OPENING | ALT | ALTERNATE | FTE | FINISHED FLOOR ELEVATION | PART | PARTITION | ATTN | ATTENTION | FL | FLOOR FINISH | P.E.M.B. | PRE-ENGINEERED METAL BLDG. | BD | BOARD | FT | FIRE RETARDANT TREATED FLOORING | PC | PLUMBING CONTRACTOR | BLK. | BLOCKING | FTC | FLOOR FINISH TYPICAL | P- | PAINTED | BLKT | BLOCKING TYPICAL | GA | GALVANIZED | REF | REFRIGERATOR | BM | BEAM | SA | SHALLOW | REQD | REQUIRED | BOP | BOTTOM OF PLATE | SB | SHALLOW BENCH | RM | ROOM | CAB | CABINET | GC | GENERAL CONTRACTOR | RO | ROUGH OPENING | CAB | CABINET | GL | Gypsum BOARD | SF | SQUARE FEET | CAN | CANISTER | Q | QUANTITY | SM | SIMILAR | CL | CENTERLINE | HW | HANDRAIL | S.S. | STAINLESS STEEL | CL-HT | CLEAR HEIGHT | HM | HOLLOW METAL | STD. | STANDARD | CL-CL | CLEARANCE | HP | HIGH POINT | STL | STEEL | CLC | CLEARANCE | HT | HEIGHT | STR. | STRUCTURE/STRUCTURAL | CLM | CONCRETE MASONRY UNIT | HVAC | HEATING, VENTILATION, AIR CONDITIONING | SUSP. | SUSPENDED | COL | COLUMN | INT | INTERIOR | TC | TOP CORNER | CONC | CONCRETE | INS | INSULATION | TO | TOP GRADE | CONSTR | CONSTRUCTION | INV | INVERT | TEMP | TEMPERED | CONT | CONTINUOUS | JT | JOINT | TH | THICK | CONTR | CONTRACTOR | LAV | LAVATORY | TI | TOP OF JOIST | DWG | DRAWING | LP | LOW POINT | TM | TOP OF MASONRY | EA | EACH | MANUF | MANUFACTURER | TOP | TOP OF PLATE | EF | ELECTRICAL CONTRACTOR | MC | MECHANICAL CONTRACTOR | TOP | TOP OF SLAB | ELEC | ELECTRICAL | MH | MANHOLE | TOP | TOP OF WALL | ENCL | ENCLOSURE | MECH | MECHANICAL | TOP | TOP OF STEEL | EQ | EQUIPMENT | MN | MANNING | TS | TUBE STEEL | EQC | EQUIPMENT CONTRACTOR | MO | MOUNTED | VS | VERIFY IN FIELD | ENC | ELECTRIC WATER COOLER | MTA | MOUNTED TO ANCHOR | VERT | VERTICAL | EXIST | EXISTING | MTL | METAL | W | WOOD | EXP | EXPANDED | NC | NOT IN CONTRACT | W/W | WELDED WIRE FABRIC | EXP-JT | EXPANSION JOINT | N.T.S. | NOT TO SCALE | W/W | WELDED WIRE FABRIC WITH | <ol style="list-style-type: none"> PERFORM WORK IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL GOVERNING ORDINANCES, CODES, AND REGULATIONS. ALL MATERIALS SHALL COMPLY WITH APPLICABLE CODES, ORDINANCES, AND REGULATIONS. COORDINATION: THE PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK AND COORDINATE ALL THE DRAWINGS BEFORE FABRICATION AND/OR INSTALLATION OF ANY WORK. CONTRACTOR SHALL IMMEDIATELY NOTIFY CONTRACTING OFFICER OF ANY DISCREPANCIES OR ERRORS. PRIOR TO BID, CONTRACTOR SHALL VISIT AND BECOME FAMILIAR WITH THE SITE AND EXISTING BUILDING. INCLUDE THE COST OF ALL WORK DESCRIBED IN THE CONTRACT DOCUMENTS AND THAT IS REQUIRED OR REASONABLY IMPLIED TO ACHIEVE THE DESIGN INTENT OF THE CONTRACT DOCUMENTS. LEGEND: ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS ANY QUESTIONS REGARDING THE SAME OR THEIR EXACT MEANING, CONTRACTING OFFICER SHALL BE NOTIFIED FOR CLARIFICATION. PRECEDENCE: DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALE. LARGER SCALE DRAWINGS HAVE PRECEDENCE OVER SMALLER SCALE DRAWINGS. SPECIFICATIONS AND GENERAL NOTES TAKE PRECEDENCE OVER DRAWINGS. FRAMING: CONTRACTOR SHALL PROVIDE ALL REQUIRED BLOCKING, BACKING, FRAMING, HANGERS, OR OTHER SUPPORT AS NECESSARY FOR ALL FIXTURES, EQUIPMENTS, CABINETS, FURNISHINGS, AND ALL OTHER ITEMS REQUIRING THE SAME. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH FURNITURE MFR. AND INSTALLER AND REVIEW SHOP DRAWINGS FOR BACKING, UTILITIES CONNECTION, ETC. ACCESS PANELS: ALL EQUIPMENT SWITCHES, AND VALVES THAT ARE CONCEALED MUST BE PROVIDED WITH ACCESS PANELS. NOTIFY THE ARCHITECT OF ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND THE NEW WORK, OF ANY OMISSIONS OR CONFLICTS IN THE DRAWINGS AND ANY RESTRICTIONS RELATED TO THE EXECUTION OF THE WORK INCLUDING THE COORDINATION WITH OTHER TRADES. ALL WOOD BLOCKING SHALL BE FIRE RETARDANT TREATED. FIELD VERIFICATION: PRIOR TO SCHEDULING AND COMMENCING OF WORK, CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN. VERIFY ALL DIMENSION AND CONDITIONS SHOWN, AND NOTIFY THE ARCHITECT OF ANY VARIATION PRIOR TO THE PURCHASING OF MATERIALS, FABRICATION OR CONSTRUCTION OF ANY ITEM. CONTRACTOR SHALL NOTIFY CONTRACTING OFFICER OF ANY OMISSIONS OF EQUIPMENT OR MATERIALS ON DRAWINGS. | <p>LARGE SCALE PLAN OR DETAIL REFERENCE: INDICATES AREA DETAILED OR ENLARGED LETTER INDICATES DETAIL SHEET WHERE DETAIL IS DRAWN</p> <p>BUILDING SECTION OR SECTIONAL DETAIL REFERENCE: ARROW INDICATES DIRECTION OF VIEW LETTER INDICATES SECTION SHEET WHERE SECTION IS DRAWN FLAG INDICATES DIRECTION OF VIEW</p> <p>CEILING HEIGHT AT DESIGNATED LOCATION</p> <p>COLUMN REFERENCE GRID</p> <p>MATERIALS</p> <table border="0"> <tr> <td></td><td>CONCRETE</td> <td></td><td>BRICK</td> </tr> <tr> <td></td><td>EARTH</td> <td></td><td>FINISHED WOOD</td> </tr> <tr> <td></td><td>GYPSUM BOARD/PLASTER</td> <td></td><td>ROUGH WOOD, CONTINUOUS</td> </tr> <tr> <td></td><td>GRAVEL</td> <td></td><td>RIGID INSULATION</td> </tr> <tr> <td></td><td>BATT INSULATION</td> <td></td><td>FIRE RATED WALL</td> </tr> <tr> <td></td><td>STEEL</td> <td></td><td>MATCH LINE</td> </tr> </table> | | CONCRETE | | BRICK | | EARTH | | FINISHED WOOD | | GYPSUM BOARD/PLASTER | | ROUGH WOOD, CONTINUOUS | | GRAVEL | | RIGID INSULATION | | BATT INSULATION | | FIRE RATED WALL | | STEEL | | MATCH LINE | <p>VICINITY MAP (N.T.S.)</p> <p>LOCALITY MAP (N.T.S.)</p> | <table border="0"> <tr> <td>ARCHITECTURAL</td> <td>MECHANICAL</td> <td>PLUMBING</td> <td>ELECTRICAL</td> </tr> <tr> <td>A0.0 COVER SHEET</td> <td>M1.1 SCHEDULES</td> <td>P1.0 PLAN & SCHEMATICS - WATER</td> <td>E0.1 SYMBOLS AND ABBREVIATIONS</td> </tr> <tr> <td>C1.1 ARCHITECTURAL SITE PLAN</td> <td>M2.1 SCHEDULES - WASTE</td> <td>P1.1 PLAN & SCHEMATICS - WASTE</td> <td>E1.1 LIGHTING PLAN</td> </tr> <tr> <td>A1.0 CONTROL JOINT PLAN</td> <td>M3.1 SCHEDULES & DETAILS</td> <td>P3.1 SCHEDULES & DETAILS</td> <td>E2.1 POWER PLAN</td> </tr> <tr> <td>A1.1 FLOOR PLAN</td> <td>M4.1 SCHEDULES & DETAILS</td> <td>P4.1 SCHEDULES & DETAILS</td> <td>E3.1 SITE PLAN</td> </tr> <tr> <td>A1.2 REFLECTED CEILING PLAN</td> <td></td> <td></td> <td>E4.1 DETAILS</td> </tr> <tr> <td>A1.3 ENLARGED FLOOR PLANS</td> <td></td> <td></td> <td>E4.2 DETAILS</td> </tr> <tr> <td>A2.1 SCHEDULES AND DETAILS</td> <td></td> <td></td> <td>E5.1 SPECIFICATIONS</td> </tr> <tr> <td>A3.1 BUILDING SECTIONS</td> <td></td> <td></td> <td>E5.2 SPECIFICATIONS</td> </tr> <tr> <td>A4.1 NOT USED</td> <td></td> <td></td> <td></td> </tr> <tr> <td>A5.1 INTERIOR ELEVATIONS AND DETAILS</td> <td></td> <td></td> <td></td> </tr> <tr> <td>A6.1 NOT USED</td> <td></td> <td></td> <td></td> </tr> <tr> <td>A6.2 NOT USED</td> <td></td> <td></td> <td></td> </tr> <tr> <td>A6.3 DOOR DETAILS</td> <td></td> <td></td> <td></td> </tr> <tr> <td>A6.4 INTERIOR WALL TYPES AND DETAILS</td> <td></td> <td></td> <td></td> </tr> <tr> <td>A7.1 NOT USED</td> <td></td> <td></td> <td></td> </tr> <tr> <td>A7.2 NOT USED</td> <td></td> <td></td> <td></td> </tr> <tr> <td>A7.3 MISCELLANEOUS DETAILS</td> <td></td> <td></td> <td></td> </tr> </table> | ARCHITECTURAL | MECHANICAL | PLUMBING | ELECTRICAL | A0.0 COVER SHEET | M1.1 SCHEDULES | P1.0 PLAN & SCHEMATICS - WATER | E0.1 SYMBOLS AND ABBREVIATIONS | C1.1 ARCHITECTURAL SITE PLAN | M2.1 SCHEDULES - WASTE | P1.1 PLAN & SCHEMATICS - WASTE | E1.1 LIGHTING PLAN | A1.0 CONTROL JOINT PLAN | M3.1 SCHEDULES & DETAILS | P3.1 SCHEDULES & DETAILS | E2.1 POWER PLAN | A1.1 FLOOR PLAN | M4.1 SCHEDULES & DETAILS | P4.1 SCHEDULES & DETAILS | E3.1 SITE PLAN | A1.2 REFLECTED CEILING PLAN | | | E4.1 DETAILS | A1.3 ENLARGED FLOOR PLANS | | | E4.2 DETAILS | A2.1 SCHEDULES AND DETAILS | | | E5.1 SPECIFICATIONS | A3.1 BUILDING SECTIONS | | | E5.2 SPECIFICATIONS | A4.1 NOT USED | | | | A5.1 INTERIOR ELEVATIONS AND DETAILS | | | | A6.1 NOT USED | | | | A6.2 NOT USED | | | | A6.3 DOOR DETAILS | | | | A6.4 INTERIOR WALL TYPES AND DETAILS | | | | A7.1 NOT USED | | | | A7.2 NOT USED | | | | A7.3 MISCELLANEOUS DETAILS | | | |
| APC | ACOUSTICAL PANEL CEILING | EXT | EXTERIOR | OC | ON CENTER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ADJ | ADJACENT | F.O. | FLOOR OPENING | OH | OVERHEAD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AF | ABOVE FINISHED FLOOR | FDL | FLOOR FINISH | DND | DO NOT DISTURB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AL | ALUMINUM | F.E. | FIRE EXTINGUISHER | OP | OPENING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| EF | ELECTRICAL CONTRACTOR | MC | MECHANICAL CONTRACTOR | TOP | TOP OF SLAB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | CONCRETE | | BRICK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | EARTH | | FINISHED WOOD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | GYPSUM BOARD/PLASTER | | ROUGH WOOD, CONTINUOUS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | BATT INSULATION | | FIRE RATED WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| A0.0 COVER SHEET | M1.1 SCHEDULES | P1.0 PLAN & SCHEMATICS - WATER | E0.1 SYMBOLS AND ABBREVIATIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C1.1 ARCHITECTURAL SITE PLAN | M2.1 SCHEDULES - WASTE | P1.1 PLAN & SCHEMATICS - WASTE | E1.1 LIGHTING PLAN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1.0 CONTROL JOINT PLAN | M3.1 SCHEDULES & DETAILS | P3.1 SCHEDULES & DETAILS | E2.1 POWER PLAN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1.1 FLOOR PLAN | M4.1 SCHEDULES & DETAILS | P4.1 SCHEDULES & DETAILS | E3.1 SITE PLAN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1.2 REFLECTED CEILING PLAN | | | E4.1 DETAILS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1.3 ENLARGED FLOOR PLANS | | | E4.2 DETAILS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2.1 SCHEDULES AND DETAILS | | | E5.1 SPECIFICATIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3.1 BUILDING SECTIONS | | | E5.2 SPECIFICATIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A4.1 NOT USED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A5.1 INTERIOR ELEVATIONS AND DETAILS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A6.1 NOT USED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A6.2 NOT USED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A6.3 DOOR DETAILS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A6.4 INTERIOR WALL TYPES AND DETAILS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A7.1 NOT USED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A7.2 NOT USED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A7.3 MISCELLANEOUS DETAILS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

HM'S KIDS, INC
 PIN# 9585-62-8794.000
 MAP # 2-202
 ZONING: COMM

H. M. CAGLE DRIVE
 R/W VARIES

NEW MONUMENT SIGN:
 VERIFY LOCATION WITH
 USPS

35' STREET YARD

PROPOSED
 6,000 SQFT
 POSTAL FACILITY
 FFE-368.33'

10 SPACES

11 SPACES

9 SPACES

10 SPACES

S59°25'15"E
 456.23'

10' PARKING SETBACK

S59°25'15"E
 382.43'

N20°34'45"E
 281.00'

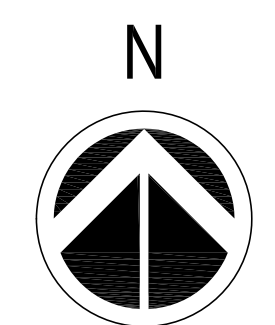
EXISTING
 CAGLE
 FURNITURE CO

SITE PLAN NOTES

1. SHADED AREA TO RECEIVE 3" ASPHALT TOP COAT BY OWNERS SUBCONTRACTOR. CONTRACTOR TO INCLUDE MANAGEMENT FEE TO OVERSEE SUBCONTRACTORS WORK.
2. CONTRACTOR TO PROTECT EXISTING ASPHALT BASE AND EXISTING LANDSCAPING DURING CONSTRUCTION. CONTRACTOR WILL REPLACE ANY DAMAGED ASPHALT BASE AND LANDSCAPING AT HIS EXPENSE.

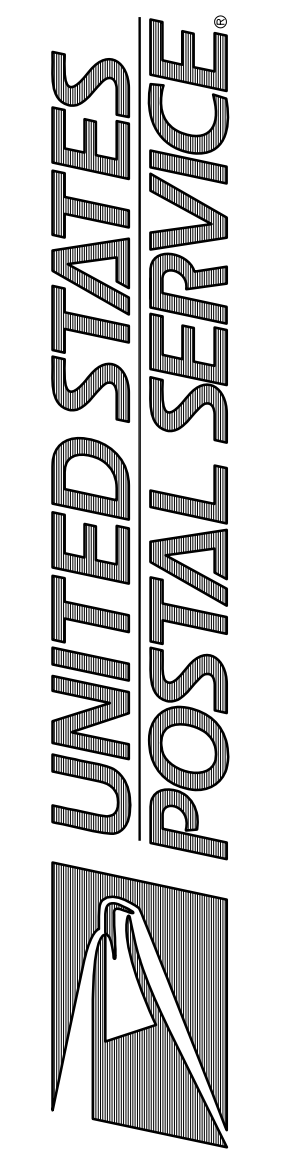
GRAPHIC SCALE

1/16" = 1'-0" 0 8' 16' 32'



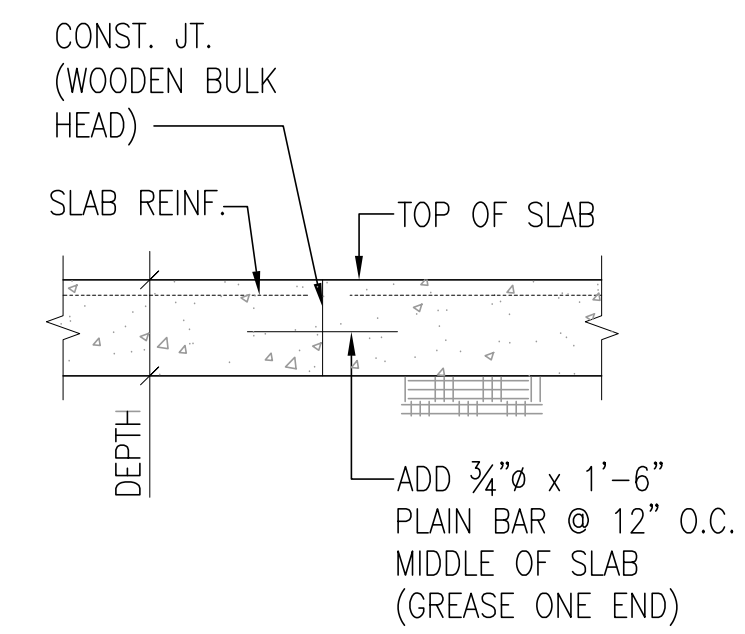
The Walker Group Architecture, Inc
 WALKER
 ARCHITECTURE
 P.O. Box 541, New Bern, NC 28563
 252.636.8778 (PHONE)
 252.636.8892 (FAX)

INTERIOR UPFIT
 USPS SPOUT SPRINGS NC CAX
 XXXXXXXXXX
 XXXXXXXXXX

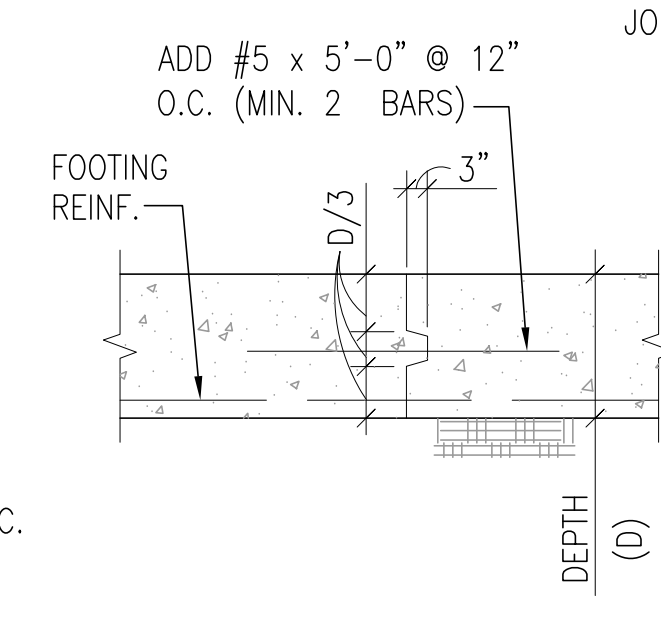


Revisions:

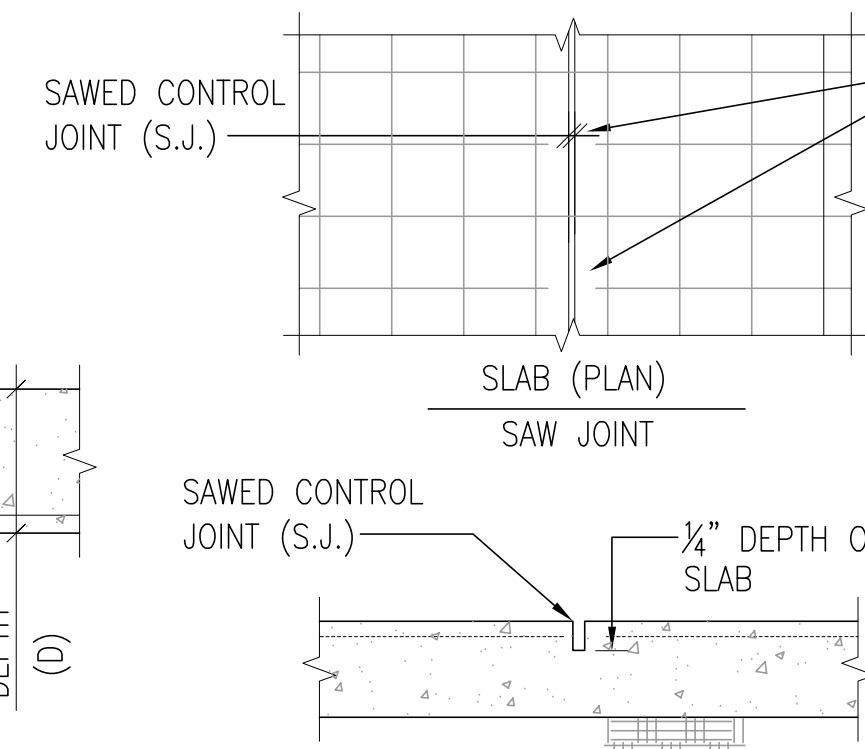
C1.1 Architectural
 Site Plan
 Scale: As Indicated Date: 5/17/2018
 Project: SPOUT SPRINGS INTERIOR UPFIT
 USPS File Number: XXXXXX
 USPS Project Number: 097932



SLAB (ELEVATION)
CONSTRUCTION JOINT



TURN DOWN SLAB FOOTING
(ELEV.) CONSTRUCTION JOINT



SLAB (ELEVATION)
SAW JOINT

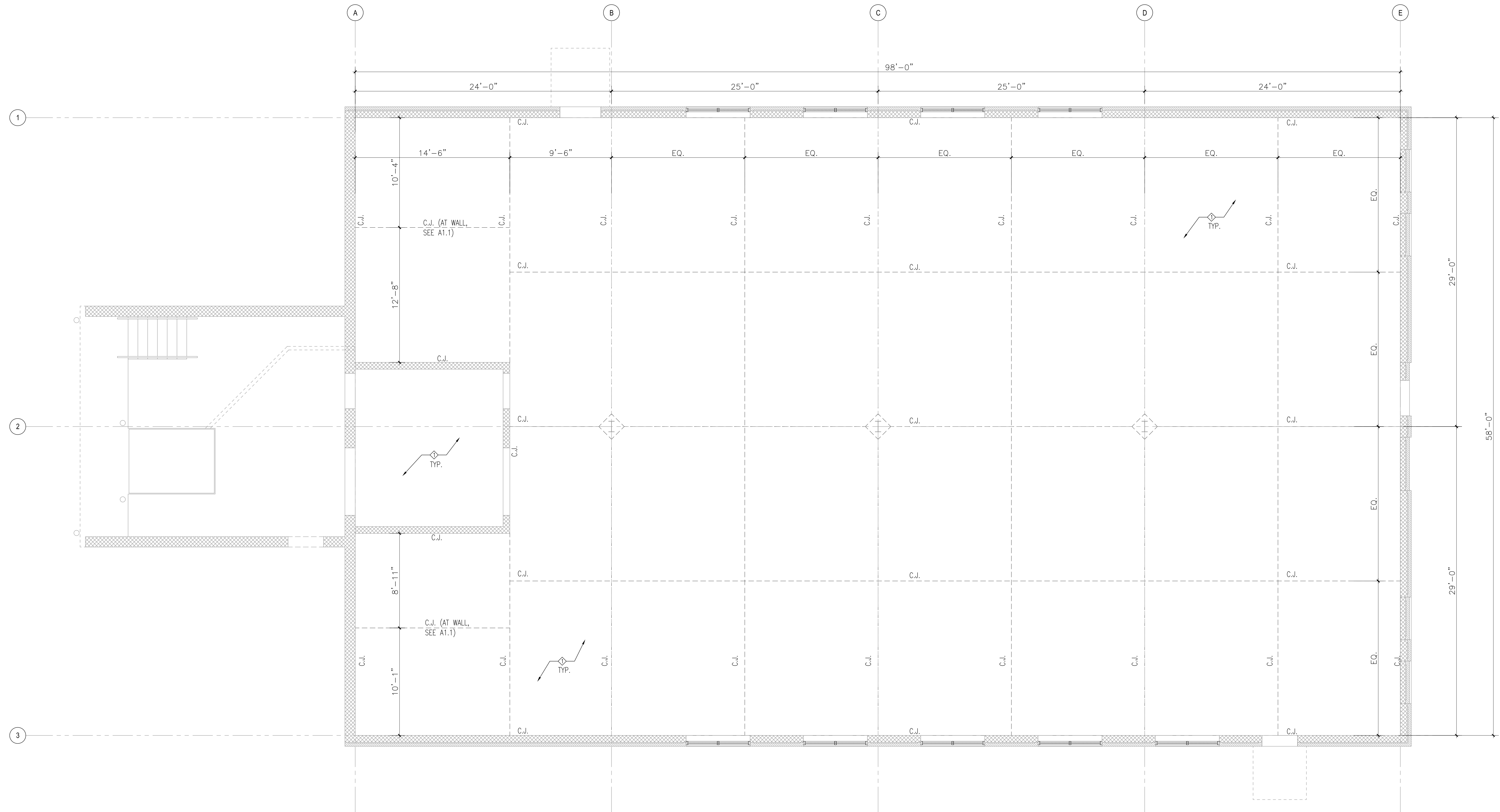
1 TYPICAL CONTROL JOINT DETAILS
SCALE: N.T.S.

GENERAL NOTES

1. CONTRACTOR TO VERIFY ALL EXISTING DIMENSIONS BEFORE COMMENCING WORK.
2. CONTRACTOR TO PROTECT EXISTING BUILDING SHELL ITEMS INCLUDING WALLS, COLUMNS, STAIRS, FRAMING, AND ROOF. TYPICAL.
3. ALL NEW CONSTRUCTION SHALL BE PER USPS STANDARDS.

KEYED NOTES

- 1 PROVIDE 4" REINFORCED CONCRETE SLAB ON GRADE, ON 15 MIL VAPOR BARRIER OVER EXISTING FILL MATERIAL. REINFORCE SLAB WITH 6X6-W2.9XW2.9 WELDED WIRE FABRIC PLACED 1" FROM TOP OF SLAB. PROVIDE CONTROL JOINTS BETWEEN SLAB AND EXISTING CMU WALLS. SEE DETAILS 1/A1.0.



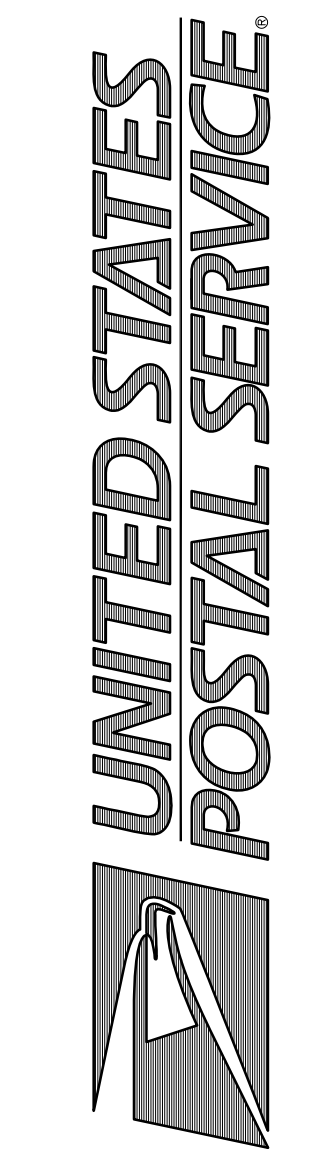
THE SYMBOL C.J. INDICATES SLAB CONTROL JOINT LOCATIONS. FOR CONTROL JOINT DETAILS, SEE 1/A1.0. OFFSET CONTROL JOINTS MINIMUM 8" AROUND EACH STRUCTURAL COLUMN.

2 CONTROL JOINT PLAN
SCALE: 1/4" = 1'-0"



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252.636.8892 (FAX)

INTERIOR UPFIT
USPS SPOUT SPRINGS NC CAX
XXXXXXXXXX
XXXXXXXXXX



A1.0 Architectural Control Joint Plan
Scale: As Indicated Date: 5/17/2018
Project: SPOUT SPRINGS INTERIOR UPFIT
USPS File Number: XXXXXX
USPS Project Number: 02932

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Columbia, MD 21045-0701

FIXTURE PLAN LEGEND

- CASEWORK TYPE:
REFER TO SPECIFICATION SECTION 123504 FOR ADDITIONAL INFORMATION
- ITEM NUMBER:
THIS IS A PLAN REFERENCE NUMBER UTILIZED IN LOCATING A SPECIFIC FIXTURE NIC = NOT IN CONTRACT, USPS FURNISHED AND INSTALLED.
- EQUIPMENT TYPE:
REFER TO SPECIFICATION SECTION 011000 FOR ADDITIONAL INFORMATION
- ITEM NUMBER:
THIS IS A PLAN REFERENCE NUMBER UTILIZED IN LOCATING A SPECIFIC FIXTURE NIC = NOT IN CONTRACT, USPS FURNISHED AND INSTALLED.



FLOOR PLAN LEGEND

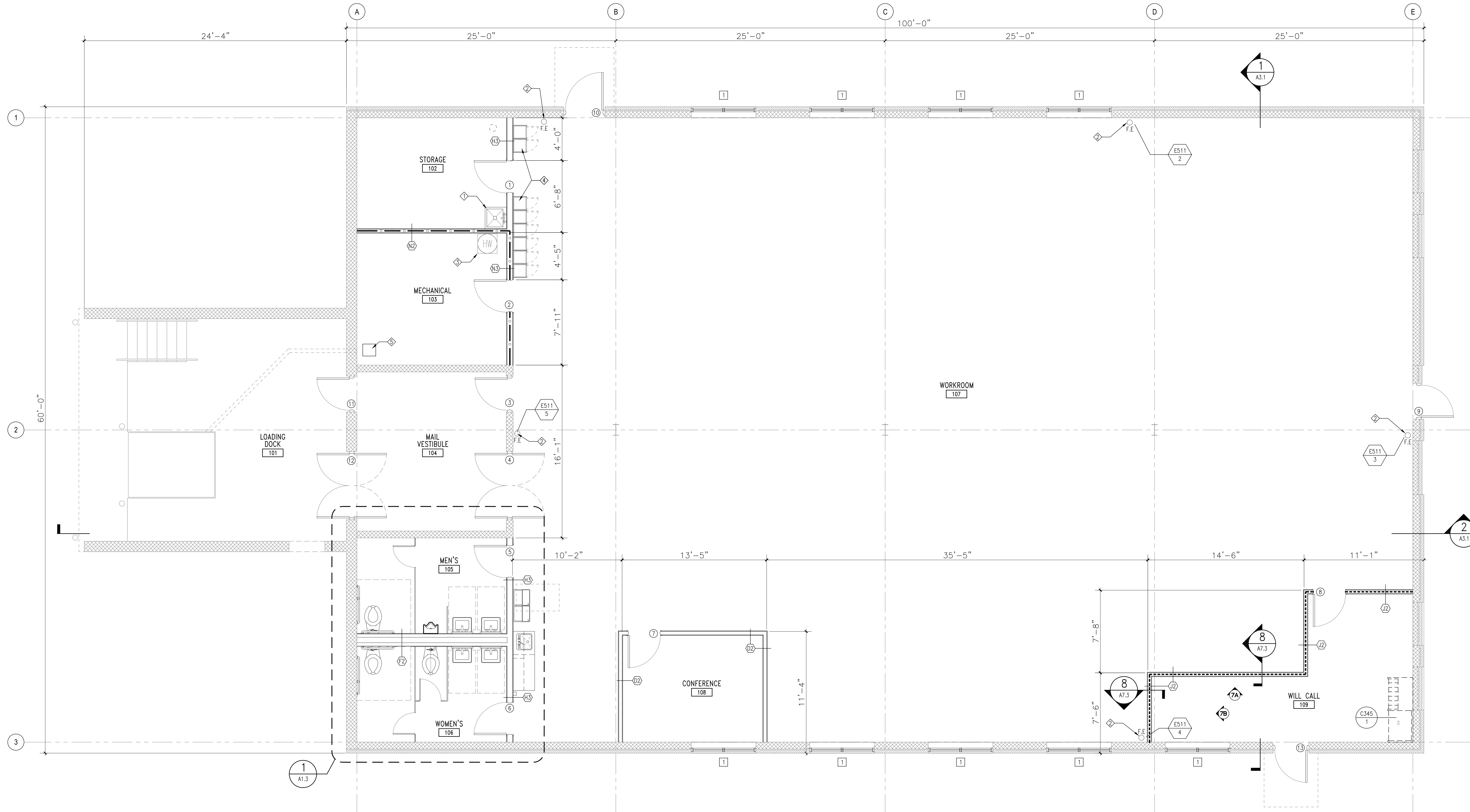
- 4" PARTITION - SEE SHEET A6.4 FOR WALL TYPES
- 4" RATED PARTITION - SEE SHEET A6.4 FOR WALL TYPES
- 6" PARTITION - SEE SHEET A6.4 FOR WALL TYPES
- 6" RATED PARTITION - SEE SHEET A6.4 FOR WALL TYPES
- CHASE WALL - SEE SHEET A6.4 FOR WALL TYPES
- SECURITY PARTITION - SEE SHEET A6.4 FOR WALL TYPES
- INTERIOR ELEVATION - SEE SHEET 7.3
- DOOR NUMBER - SEE SHEET A2.1 FOR DOOR SCHEDULE
- WINDOW TYPE - SEE SHEET A2.1 FOR WINDOW TYPES
- ROOM NAME & NUMBER - SEE SHEET A2.1 FOR FINISH SCHEDULE

GENERAL NOTES

1. SEE PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES.
2. UNLESS OTHERWISE NOTED, INTERIOR DOOR ROUGH OPENING SHALL BE 4" FROM ADJOINING WALL PARTITION.
3. CONTRACTOR TO VERIFY ALL EXISTING DIMENSIONS BEFORE COMMENCING WORK.
4. CONTRACTOR TO PROTECT EXISTING BUILDING SHELL ITEMS INCLUDING WALLS, COLUMNS, STAIRS, FRAMING, AND ROOF, TYPICAL.
5. SEE SCHEDULES SHEET A2.1 FOR FLOOR AND WALL FINISHES, DOORS, AND WINDOWS.
6. ALL NEW CONSTRUCTION SHALL BE PER USPS STANDARDS.

KEYED NOTES

- 1 PROVIDE NEW MOP BASIN AND 8"x4"x4" FRP WANSKOT ON BOTH ADJACENT WALLS. SEE DETAIL 15/A5.1.
- 2 PROVIDE NEW FIRE EXTINGUISHER PER USPS STANDARDS. INSTALL PER NFPA 72. SEE DETAIL 5/A7.3.
- 3 PROVIDE NEW TANK WATER HEATER. CONTRACTOR TO PROVIDE 4" CONCRETE PAD ON TOP OF SLAB FOR WATER HEATER. SEE PLUMBING.
- 4 PROVIDE 8 NEW DOUBLE LOCKERS, SEE DETAIL 11/A6.4.
- 5 HYDRAULIC LIFT PUMP LOCATION, SEE MECHANICAL.

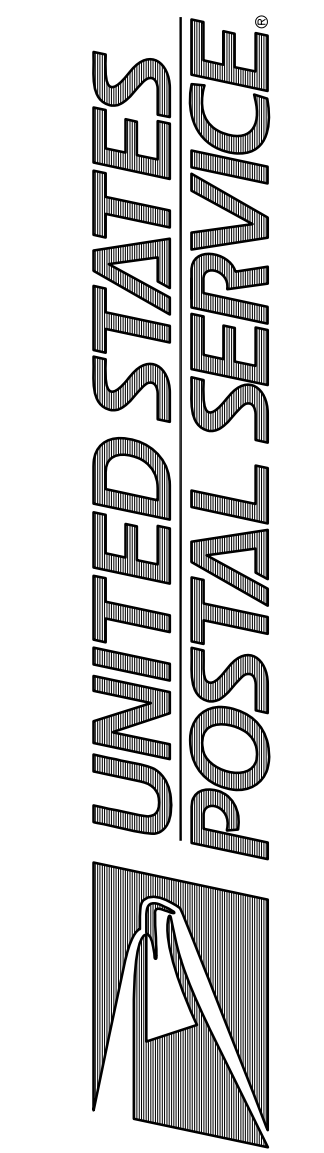


1 FLOOR PLAN
SCALE: 1/4" = 1'-0"



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252.636.8992 (FAX)

INTERIOR UFFIT
USPS SPOUT SPRINGS NC CAX
XXXXXXXXXX
XXXXXXXXXX



Columbia FS010500 Little Patuxent Parkway, Second Floor, Columbia, MD 21045-0701

Revisions:
Date: 5/17/2018
Project: SPOUT SPRINGS INTERIOR UFFIT
USPS File Number: XXXXXX
USPS Project Number: 097932

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REFLECTED CEILING PLAN LEGEND

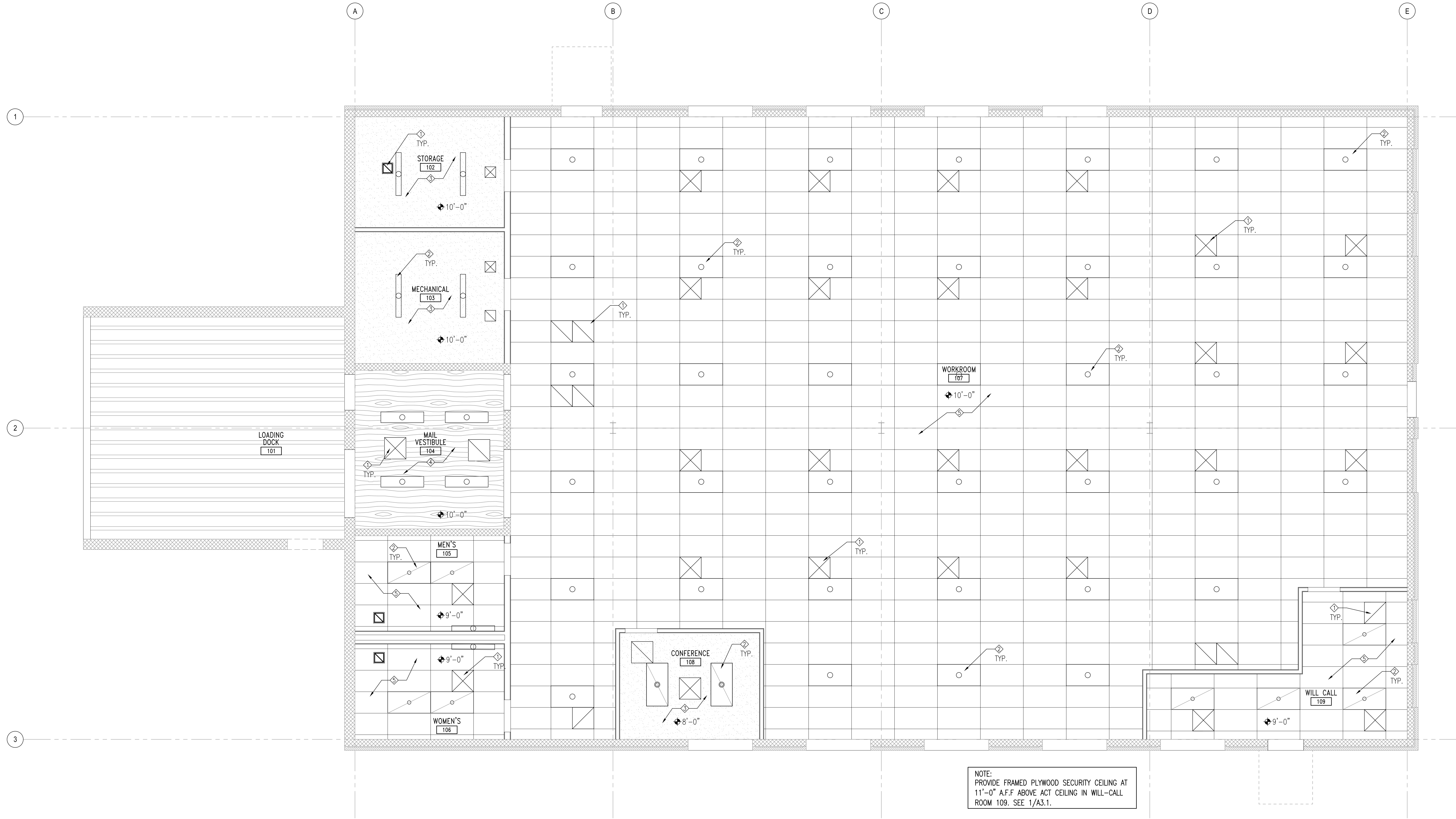
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GENERAL NOTES

1. SEE PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES.
2. CONTRACTOR TO VERIFY ALL EXISTING DIMENSIONS BEFORE COMMENCING WORK.
3. CONTRACTOR TO PROTECT EXISTING BUILDING SHELL ITEMS INCLUDING WALLS, COLUMNS, STAIRS, FRAMING, AND ROOF, TYPICAL.
4. SEE SCHEDULES SHEET A2.1 CEILING FINISHES.
5. ALL NEW CONSTRUCTION SHALL BE PER USPS STANDARDS.

KEYED NOTES

- 1 PROVIDE NEW HVAC DIFFUSERS, SEE MECHANICAL.
- 2 PROVIDE NEW LIGHTING, SEE ELECTRICAL.
- 3 PROVIDE NEW SUSPENDED GYPSUM BOARD CEILING. PAINT. SEE DETAILS/A7.3.
- 4 PROVIDE NEW SUSPENDED PLYWOOD CEILING. PAINT. SEE DETAIL 9/A7.3.
- 5 PROVIDE NEW 2'x4\"/>



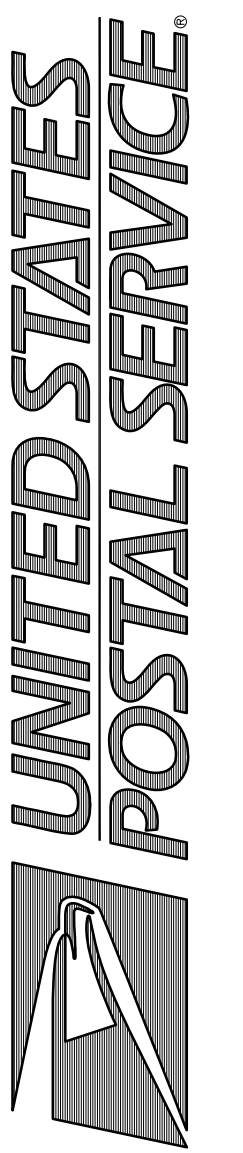
NOTE:
PROVIDE FRAMED PLYWOOD SECURITY CEILING AT
11'-0" A.F.F ABOVE ACT CEILING IN WILL-CALL
ROOM 109. SEE 1/A3.1.

1 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



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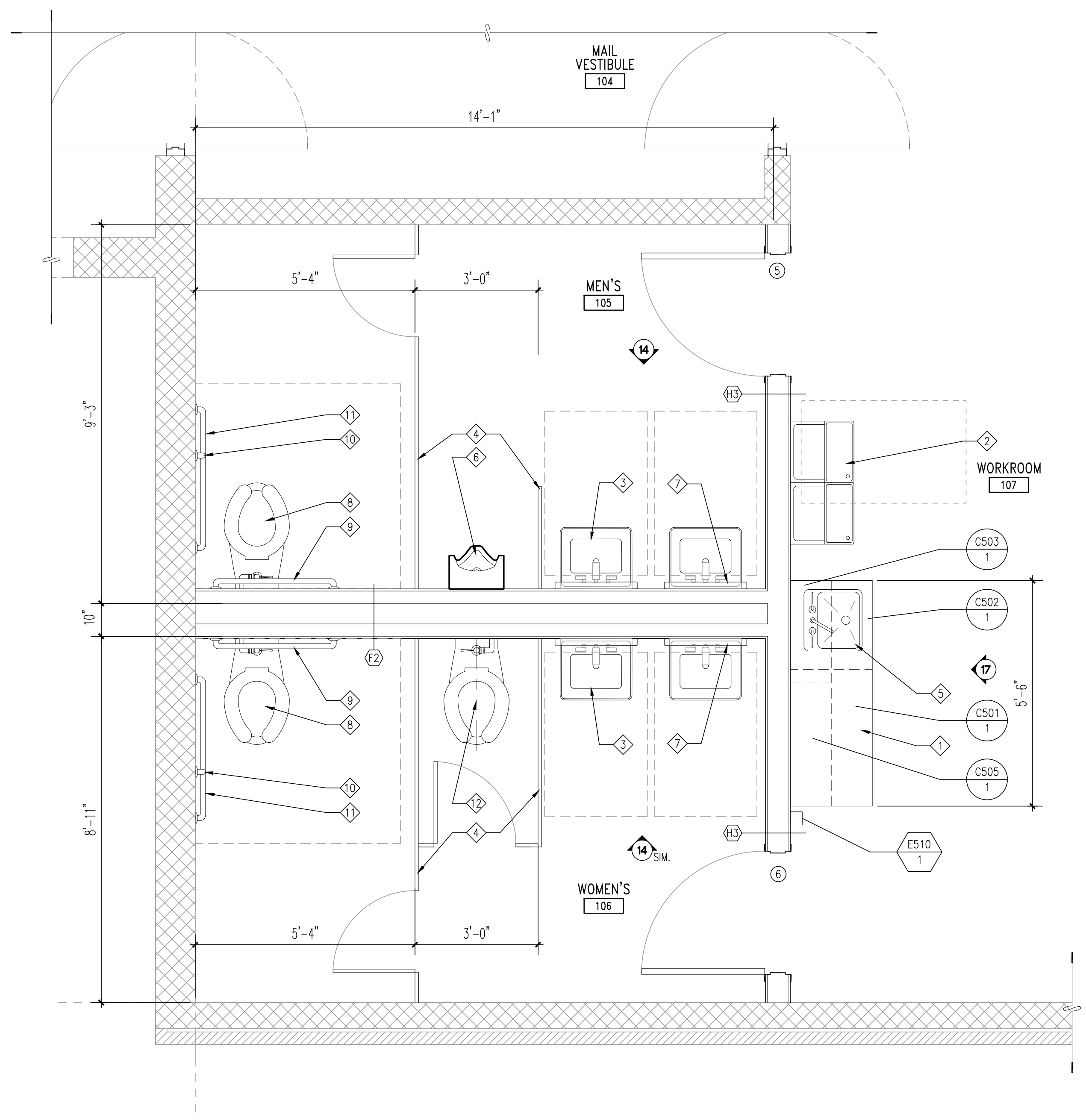
INTERIOR UPFIT
USPS SPOUT SPRINGS NC CAX
XXXXXXXXXX
XXXXXXXXXX



Columbia, MD 21045-0701
Columbia, F50,10500 Little Patuxent Parkway, Second Floor, Columbia, MD 21045-0701

A1.2 Architectural Reflected Ceiling Plan
Scale: As Indicated Date: 5/17/2018
Project: SPOUT SPRINGS INTERIOR UPFIT
USPS File Number: XXXXXX
USPS Project Number: 097932

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NOTE:
USPS SHALL PROVIDE AND INSTALL PAPER TOWEL DISPENSERS, WASTE RECEPTACLES, SOAP DISPENSERS, AND TOILET TISSUE DISPENSERS.

1 ENLARGED BATHROOM PLAN
SCALE: 1/2" = 1'-0"

GENERAL NOTES

1. SEE PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES.
2. UNLESS OTHERWISE NOTED, INTERIOR DOOR ROUGH OPENING SHALL BE 4" FROM ADJOINING WALL PARTITION.
3. CONTRACTOR TO VERIFY ALL EXISTING DIMENSIONS BEFORE COMMENCING WORK.
4. CONTRACTOR TO PROTECT EXISTING BUILDING SHELL ITEMS INCLUDING WALLS, COLUMNS, STAIRS, FRAMING, AND ROOF, TYPICAL.
5. SEE SCHEDULES SHEET A2.1 FOR FLOOR AND WALL FINISHES, DOORS, AND WINDOWS.
6. ALL NEW CONSTRUCTION SHALL BE PER USPS STANDARDS.

KEYED NOTES

1. PROVIDE PLASTIC LAMINATE CLAD CABINETS PER USPS STANDARDS. SEE SHEET A6.4.
2. HI-LOW ADA ACCESSIBLE WATER FOUNTAIN, SEE DETAIL 16/A5.1.
3. WALL MOUNTED SINK. SEE DETAIL 11/A5.1.
4. PROVIDE 1" THICK WATER/GRAFFITI RESISTANT, NON-ABSORBENT PLASTIC FACED TOILET/URINAL PARTITIONS PER USPS STANDARDS. CLEAR WIDTH AS SHOWN.
5. PROVIDE NEW RIM MOUNTED SINK. SEE DETAIL 11/A5.1.
6. WALL MOUNTED URINAL. CENTERLINE OF URINAL SHALL BE MIN. SEE DETAIL 11/A5.1.
7. 24" X 36" ADA TILT MIRROR W/ STAINLESS STEEL FRAME. SEE DETAIL 11/A5.1.
8. FLOOR MOUNTED FLUSH VALVE ADA TOILET. SEE DETAIL 11/A5.1.
9. 36" GRAB BAR. SEE DETAIL 11/A5.1.
10. 18" GRAB BAR. SEE DETAIL 11/A5.1.
11. 42" GRAB BAR. SEE DETAIL 11/A5.1.
12. FLOOR MOUNTED FLUSH VALVE TOILET. SEE PLUMBING. SEE DETAIL 11/A5.1.

FIXTURE PLAN LEGEND

- CASEWORK TYPE:**
REFER TO SPECIFICATION SECTION 123504 FOR ADDITIONAL INFORMATION
- ITEM NUMBER:**
THIS IS A PLAN REFERENCE NUMBER UTILIZED IN LOCATING A SPECIFIC FIXTURE
NIC = NOT IN CONTRACT, USPS FURNISHED AND INSTALLED.
- EQUIPMENT TYPE:**
REFER TO SPECIFICATION SECTION 011000 FOR ADDITIONAL INFORMATION
- ITEM NUMBER:**
THIS IS A PLAN REFERENCE NUMBER UTILIZED IN LOCATING A SPECIFIC FIXTURE
NIC = NOT IN CONTRACT, USPS FURNISHED AND INSTALLED.

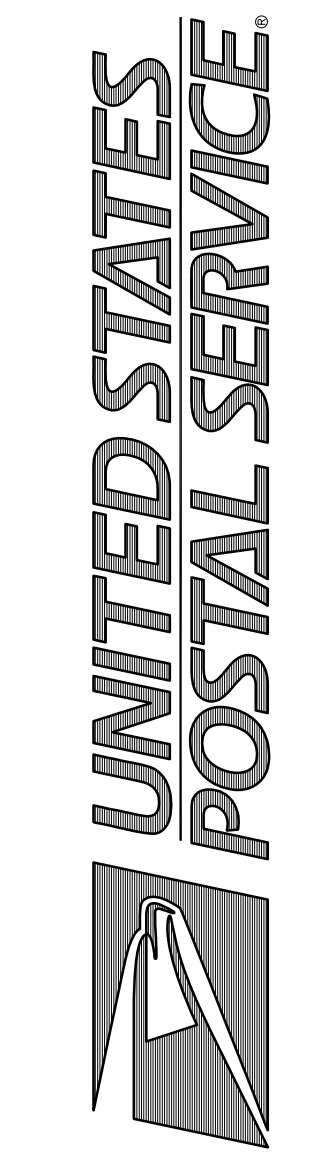
FLOOR PLAN LEGEND

- 6" PARTITION - SEE SHEET A6.4 FOR WALL TYPES
- CHASE WALL - SEE SHEET A6.4 FOR WALL TYPES
- INTERIOR ELEVATION - SEE SHEET A5.1
- DOOR NUMBER - SEE SHEET A2.1 FOR DOOR SCHEDULE
- OFFICE**
 ROOM NAME & NUMBER - SEE SHEET A2.1 FOR FINISH SCHEDULE



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Columbia, MD 21045-0701

A2.1 Architectural Schedules and Details
Scale: As Indicated Date: 5/17/2018
Project: SPOUT SPRINGS INTERIOR UPTF
USPS File Number: XXXXXX
USPS Project Number: 097932

| DOOR SCHEDULE | | | | | | | | | | | | | | |
|---------------|-----------|--------|--------|------|----------|--------|-------|----------|--------|---------|--------|---------|---------|---|
| NO. | SIZE | | | DOOR | | | FRAME | | | SIGNAGE | | | REMARKS | |
| | WIDTH | HEIGHT | THICK. | TYPE | MATERIAL | FINISH | TYPE | MATERIAL | FINISH | HEAD | JAMB | THRESH. | | |
| 1 | 3'-0" | 7'-0" | 1 3/4" | A | SCW | PAINT | A | HM | PAINT | 6/A6.3 | 6/A6.3 | -- | X | STORAGE |
| 2 | 3'-0" | 7'-0" | 1 3/4" | A | SCW | PAINT | A | HM | PAINT | 6/A6.3 | 6/A6.3 | -- | X | MECHANICAL, 60 MINUTE FIRE RATED |
| 3 | 3'-0" | 7'-0" | 1 3/4" | A | HM | PAINT | B | HM | PAINT | 7/A6.3 | 7/A6.3 | 1/A6.3 | X | MAIL VESTIBULE |
| 4 | (2) 3'-0" | 7'-0" | 1 3/4" | E | HM | PAINT | D | HM | PAINT | 8/A6.3 | 8/A6.3 | 1/A6.3 | X | MAIL VESTIBULE, SEE NOTE F |
| 5 | 3'-0" | 7'-0" | 1 3/4" | A | SCW | PAINT | A | HM | PAINT | 6/A6.3 | 6/A6.3 | -- | X | MEN'S |
| 6 | 3'-0" | 7'-0" | 1 3/4" | A | SCW | PAINT | A | HM | PAINT | 6/A6.3 | 6/A6.3 | -- | X | WOMEN'S |
| 7 | 3'-0" | 7'-0" | 1 3/4" | A | SCW | PAINT | A | HM | PAINT | 6/A6.3 | 6/A6.3 | -- | X | CONFERENCE |
| 8 | 3'-0" | 7'-0" | 1 3/4" | F | SCW | PAINT | A | HM | PAINT | 6/A6.3 | 6/A6.3 | -- | X | WILL CALL, SEE NOTES E AND G |
| 9 | 3'-0" | 7'-0" | 1 3/4" | A | HM | PAINT | B | HM | PAINT | 7/A6.3 | 7/A6.3 | 1/A6.3 | X | EXTERIOR TO WORKROOM, SEE NOTE D |
| 10 | 3'-6" | 7'-0" | 1 3/4" | A | HM | PAINT | C | HM | PAINT | 7/A6.3 | 7/A6.3 | 1/A6.3 | X | EXTERIOR TO WORKROOM, SEE NOTE D |
| 11 | 3'-0" | 7'-0" | 1 3/4" | A | HM | PAINT | B | HM | PAINT | 7/A6.3 | 7/A6.3 | 1/A6.3 | X | LOADING DOCK TO MAIL VESTIBULE, SEE NOTE D |
| 12 | (2) 3'-0" | 7'-0" | 1 3/4" | E | HM | PAINT | D | HM | PAINT | 8/A6.3 | 8/A6.3 | 1/A6.3 | X | LOADING DOCK TO MAIL VESTIBULE, SEE NOTES D AND F |
| 13 | 3'-0" | 7'-0" | 1 3/4" | A | HM | PAINT | B | HM | PAINT | 7/A6.3 | 7/A6.3 | 1/A6.3 | X | EXTERIOR TO WILL CALL, SEE NOTE D |

NOTE:
A. SEE SPECS. FOR DOOR AND FRAME PAINT FINISH.
B. DOORS AND FRAMES ARE TO BE PAINTED TO MATCH THEIR ADJACENT WALLS UNLESS NOTED OTHERWISE.
C. ROOM OR EXIT DOOR SIGNAGE REQUIRED. SEE DETAILS 9/A7.3, 11/A7.3 AND 12/A7.3.
D. EXTERIOR DOORS, FRAMES, AND HARDWARE SHALL BE CONTRACTOR PURCHASED AND INSTALLED BY OWNER. VERIFY OPENING SIZE PRIOR TO ORDERING.
E. PROVIDE DOOR BELL, SEE ELECTRICAL.
F. IMPACT BUMPERS ON TRAFFIC SIDE OF DOOR ONLY. PROVIDE 3/4" KICKPLATE ON BACK SIDE OF DOOR, TYP. IMPACT DOORS ARE 180 DEGREE SWING. PROVIDE OVERHEAD DOOR STOPS, SEE DETAIL 11/A2.1.
G. FOR THE USPS WICKET DOOR, SEE DETAIL 8/A2.1.
H. FOR HM FRAMES, SEE DETAIL 2/A6.3 FOR ADDITIONAL USPS SPECIFIC INFORMATION.
I. CONTRACTOR TO REFER TO CFS HARDWARE GUIDE FOR HARDWARE REQUIREMENTS OF EACH DOOR PRIOR TO ORDERING DOORS AND HARDWARE. COORDINATE WITH USPS SPECIFICATIONS.

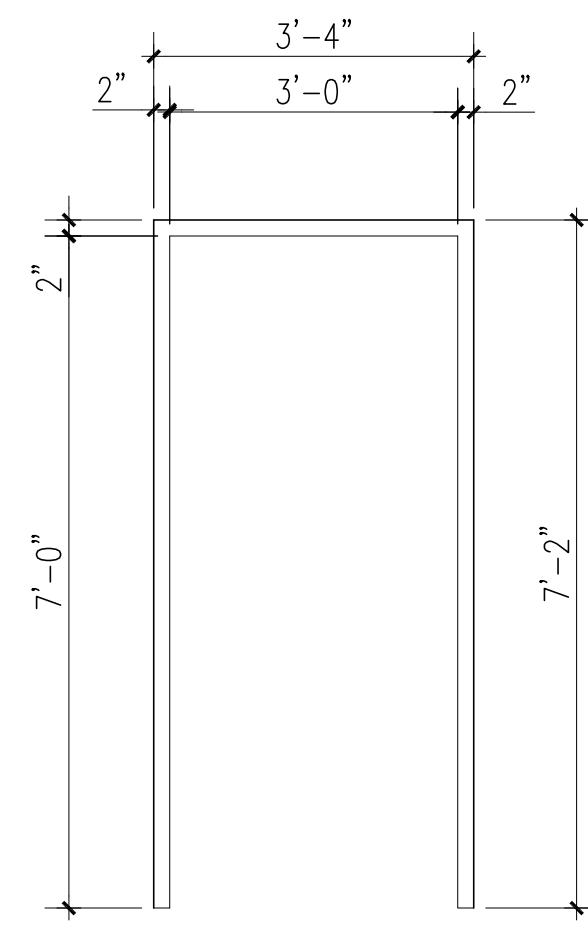
GENERAL ACCESSIBILITY REQUIREMENTS:
A. DOORS SHALL PROVIDE A MINIMUM CLEAR OPENING OF 32" WIDE BY 6'-8" HIGH WHEN AT A 90 DEGREE ANGLE TO THE CLOSED POSITION.
B. THE BOTTOM 10" OF THE DOORS ARE TO HAVE A SMOOTH UNINTERRUPTED SURFACE TO ACCOMMODATE OPENING BY WHEEL CHAIR FOOT REST.
C. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 8.5 POUNDS FOR EXTERIOR DOORS, AND 5 POUNDS FOR INTERIOR DOORS. SUCH PULL OR PUSH EFFORTS ARE TO BE APPLIED AT RIGHT ANGLES TO HINGED DOORS. WHEN FIRE DOORS ARE REQUIRED, COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE REQUIREMENTS.

| WINDOW SCHEDULE | | | | | | | | | |
|-----------------|-------|--------|--------|-----------|---------------|-------|----------|--------|---------|
| NO. | SIZE | | | GLAZING | | FRAME | | | REMARKS |
| | WIDTH | HEIGHT | THICK. | INSULATED | SECURITY FILM | TYPE | MATERIAL | FINISH | |
| 1 | 6'-0" | 1'-8" | 1" | YES | YES | A | ALUM | FF | |

NOTE:
A. WINDOW SHALL BE CONTRACTOR PURCHASED AND INSTALLED BY OWNER. VERIFY ALL WINDOW ROUGH OPENING DIMENSIONS IN FIELD PRIOR TO ORDERING UNITS.
B. GLASS: ALL GLASS TO CONFORM TO CONSUMER SAFETY COMMISSION, PRODUCT SAFETY ACT 16 CFR 1201.
C. FRAME/JAMB: SEE DETAIL 3/A6.3.

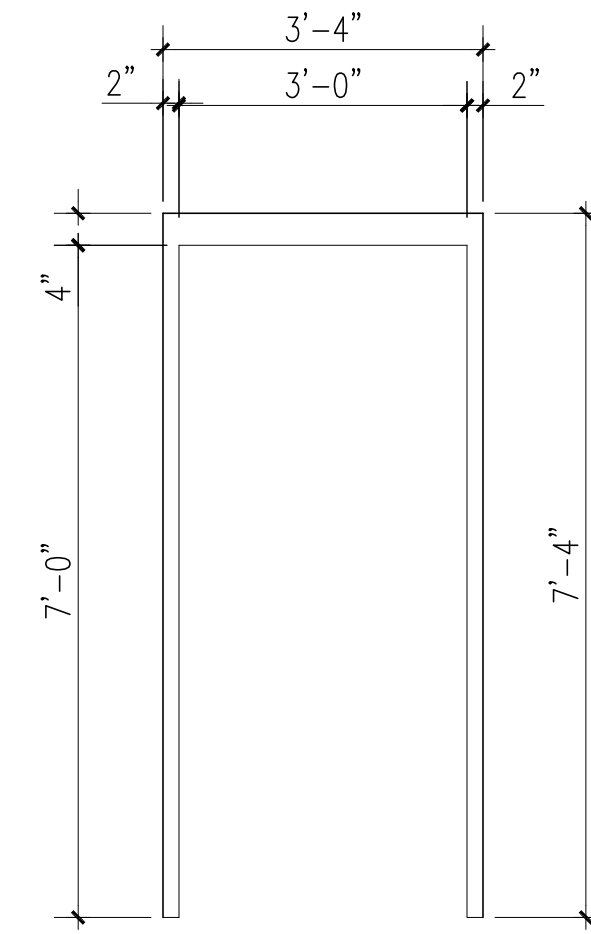
| ROOM FINISH SCHEDULE | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-------------|---------------|------------------|-------|-------|------|-----|-----|------------|-----|-----------|-------|-----|------|-------|----------------|---------------|-------|-------|--------|-------------------|--|--------|
| QUANTITY | ROOM NUMBER | FLOOR / BASE | | WALLS | | | | | CLQ. MATL. | | CLQ. HGT. | NOTES | | | | | | | | | | | |
| | | SEAL/CONCRETE | EPoxy/LIGHT GRAY | RFT-1 | RFT-2 | WB-1 | P-1 | P-2 | P-3 | P-4 | | | P-5 | RL-2 | ACT-1 | GYP. BD. (P-1) | PLYWOOD (P-1) | 8'-0" | 9'-0" | 10'-0" | UNDESIDE OF TRUSS | | |
| NOT USED | | | | | | | | | | | | | | | | | | | | | | | |
| LOADING DOCK | 101 | | | | | | | | | | | | | | | | | | | | | | |
| STORAGE | 102 | | | | | | | | | | | | | | | | | | | | | | |
| MECHANICAL | 103 | | | | | | | | | | | | | | | | | | | | | | |
| MAIL VESTIBULE | 104 | | | | | | | | | | | | | | | | | | | | | | |
| MEN'S | 105 | | | | | | | | | | | | | | | | | | | | | | |
| WOMEN'S | 106 | | | | | | | | | | | | | | | | | | | | | | |
| WORKROOM | 107 | | | | | | | | | | | | | | | | | | | | | | |
| CONFERENCE | 108 | | | | | | | | | | | | | | | | | | | | | | |
| WILL CALL | 109 | | | | | | | | | | | | | | | | | | | | | | NOTE B |

NOTE:
A. SEE DOOR SCHEDULE FOR ADDITIONAL FINISH INFORMATION.
B. PLYWOOD SECURITY CEILING @ 2'-0" ABOVE ACOUSTICAL CEILING TILE IN WILL CALL, SEE 11/A3.1.
C. EPOXY BASED PAINTS FOR ALL PAINTED WALLS.
D. ALL GYPSUM BOARD WALLS IN WORKROOM 107 SHALL HAVE 4'-0" HIGH FIBERGLASS REINFORCED PLASTIC WAINSCOT, SEE DETAIL 15/A3.1.
E. GYPSUM BOARD: ALL GYP. BD. TO BE 5/8" TYPE "X" UNLESS NOTED OTHERWISE. INSTALL MOISTURE RESISTANT GYP. BD. BEHIND SINKS, IN TOILET, JANITOR, MECHANICAL ROOMS, AND OTHER POTENTIALLY DAMP LOCATIONS.
F. SEE SHEET A7.3 FOR DOOR AND WALL PICTOGRAPH DETAILS. CONTRACTOR TO COORDINATE LOCATION OF ALL PICTOGRAPHS WITH USPS PRIOR TO CONSTRUCTION.



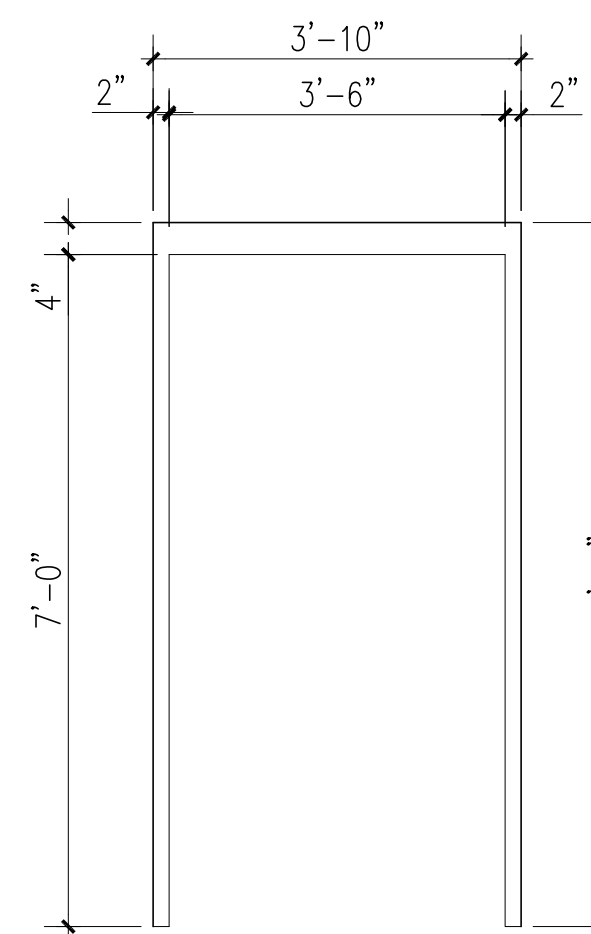
1 FRAME TYPE A

SCALE: 1/2" = 1'-0"



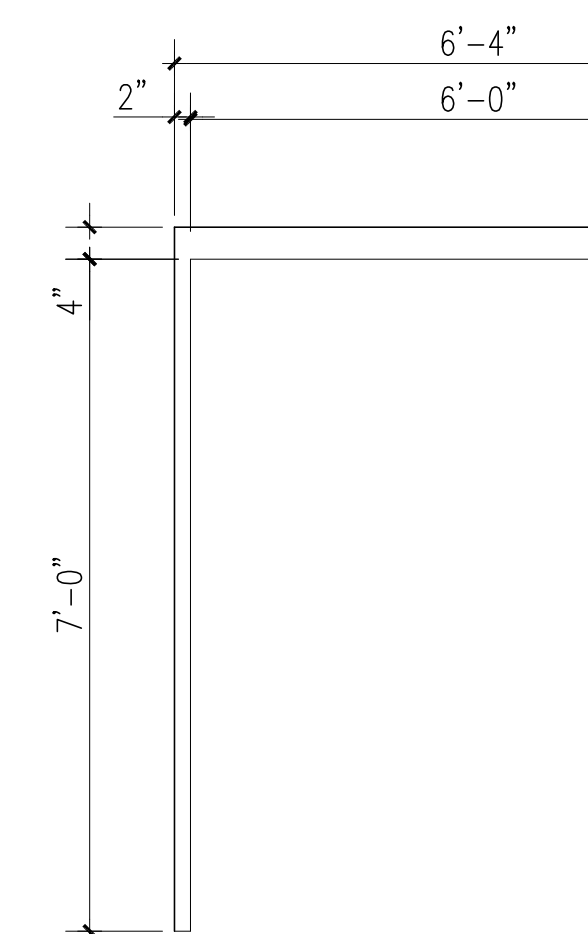
2 FRAME TYPE B

SCALE: 1/2" = 1'-0"



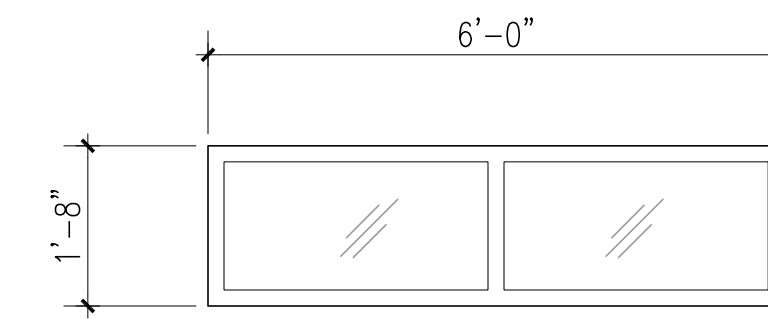
3 FRAME TYPE C

SCALE: 1/2" = 1'-0"



4 FRAME TYPE D

SCALE: 1/2" = 1'-0"



5 WINDOW FRAME TYPE A

SCALE: 1/2" = 1'-0"

6 COMPACT BUILDING - ELEVATIONS OF TYPICAL DOOR TYPES G2-7-2 a

GENERAL NOTES:
A. DOOR MATERIAL, SIZES, FRAMES AND HARDWARE, AS SCHEDULED.
B. SEE SPECIFICATIONS FOR MORE INFORMATION.
NOTES:
1. ALUMINUM STOREFRONT OR HOLLOW METAL GLAZED DOOR WITH FRAME, AS SCHEDULED BOTTOM RAIL TO MEET RE-4 ROOTS, TYP.
2. 5" WIDE x 5'-9" HIGH LIGHT PLACED @ 10" AFF. AND 5" FROM STRIKE JAMB OR CENTER ON DOOR. GLASS TYPE 4.
3. VISION PANEL TO BE 4" WIDE x 30" HIGH CENTERED ON DOOR. GLASS TYPE 4.
4. IMPACT BUMPERS ON TRAFFIC SIDE OF DOOR ONLY. PROVIDE 3/4" KICKPLATE ON BACK SIDE OF DOOR, TYP.
5. SEE DETAIL G2-7-2b FOR MORE INFORMATION.
6. 180° PEERHOLE VIEWER, 5'-0" AFF. TYP.
7. VISION PANEL TO BE 10"x10", ONE-WAY GLASS, MOUNTED AT 5'-0" AFF TO CENTER. GLASS TO BE 1/4" TO 3/8" LIGHT TRANSMISSION SHEET GLASS. PROVIDE 1/4"x1/4" BLACK-OUT CURTAIN, SEE SPEC. SECTION 12200L.
8. SPACE IS REQUIRED BEHIND DOOR TO ACCOMMODATE MOTORIZED EQUIPMENT, TYP.
9. VISION PANEL TO BE 22" X 6", GLASS MOUNTED AT 5'-0" AFF TO CENTER AND CENTERED LEFT TO RIGHT ON DOOR. REFER TO SPECS.

8 DOORS AND HARDWARE - ELEVATIONS AND DETAILS • WICKET DOOR G2-7-2 b

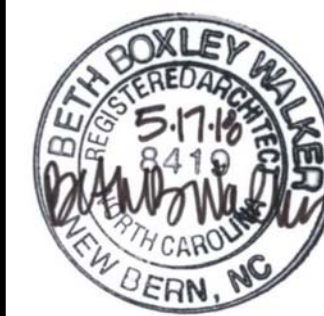
NOTES:
1. PROVIDE HARDWOOD SHELF AND BRACKETS. FINISH SHELF AND EDGES SAME AS DOOR, TYP.
2. PROVIDE DEADBOLT LOCK, WHICH MEETS ANSI A 156.5 GRADE 1. THE 1" THROW DEADBOLT IS OPERATED BY A THUMBTURN ON THE WORKROOM SIDE. ANSI 50151 FUNCTION (WITH NO DISPOSED FROM ON LOBBY SIDE). INSTALL METAL RECEIVER IN DOOR STILE.
3. PROVIDE CONTINUOUS PIANO HINGE AT WICKET DOOR PANEL.
4. WICKET DOOR PANEL IS THE SAME CONSTRUCTION, THICKNESS, AND FINISH AS DOOR. HINGE OF DOOR AND WICKET PANEL TO BE ON SAME SIDE. VERIFY "HAND" OF DOOR FROM ACTUAL PLAN LAYOUT.
5. 180° PEERHOLE VIEWER, 5'-0" AFF. TYP.
6. PROVIDE 1/8" x 2" CONTINUOUS ALUM. PLATE SECURED TO LOCK SIDE OF WICKET PANEL HEAD AND STRIKE SIDE JAMB, TYP.
7. ADJUST DOOR SHOE TO LIMIT GAP UNDER DOOR SHOE TO 1/8" MAX.

10 USPS STANDARD COLOR AND MATERIAL LIST G2-5-1 a

BASE
WB-1 STANDARD 4" WALL BASE, BLACK
EPOXY FLOOR AND WALL COATING
LIGHT GRAY
PAINT
P-1 (WHITE) GLIDDEN (ICI) #50YY 83/057
P-2 (LIGHT GRAY) GLIDDEN (ICI): #50BG 62/007
P-3 NOT USED
P-4 (RED) PMS 485 "POSTAL RED"
P-5 (BLUE) PMS 294 "POSTAL BLUE"
P-6 (MD. GRAY) SHERWIN WILLIAMS, #5W1232, "DUBLIN GRAY"
P-7 (BLACK) ECKSTEIN, SEMI-GLOSS BLACK
ACOUSTICAL CEILING TILE & GRID
ACT-1 ARMSTRONG, Fine Fissured #1729, White, 2'x4'x5/8" LAY-IN
CG-1 ARMSTRONG, PRELUDE 15/16" WHITE, EXPOSED TEE SYSTEM CEILING GRID
PLASTIC LAMINATE
PL-1 NEVAMAR, #5-7-271, TEXTURED FINISH, "SMOKEY WHITE"
PL-2 FORMICA #6902-58 "GREENADONE"
PL-3 FORMICA, #914-58 "MARINE BLUE"
PL-4 WILSONART, #4142-60, "GREY GLACE"
PL-5 FORBIO, WALTON, UNI #186, "LEAD"
SOLID SURFACING
FRP STRUCTOGLAS FRP 1207 GRAY OR EQUAL
FIBERGLASS REINFORCED PLASTIC PANELS
FRP STRUCTOGLAS FRP 1207 GRAY OR EQUAL
NOTE:
1. FINISHES LISTED ARE THE PREFERRED OPTION. ACCEPTABLE ALTERNATES ARE LISTED IN THE APPROPRIATE SPECIFICATION SECTIONS.

11 PROTECTIVE BARRIERS - DETAILS • OVERHEAD DOOR STOPS G2-7-4 d

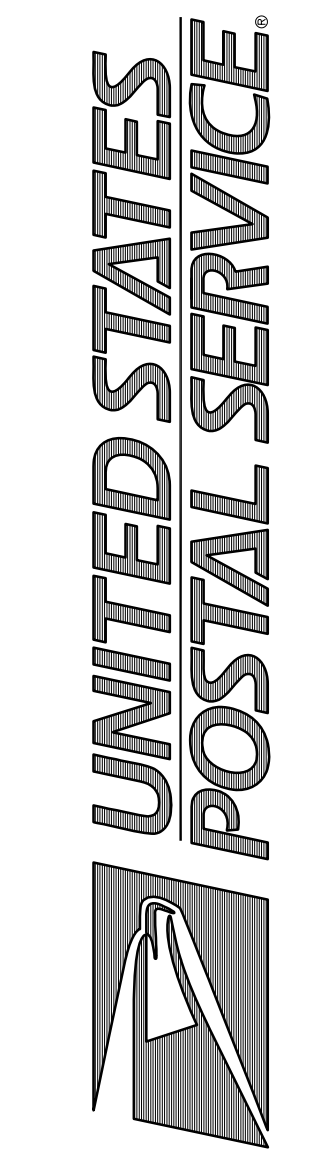
DOUBLE ACTION TRAFFIC DOORS
3/8" THK. x 2" WIDE STL. PLATE BRACKET-WELDED TO EACH SIDE OF STEEL DOOR FRAME
ALTERNATE POSITION
1/4" THK. x 3" x 6" STL. PLATE WELDED TO STL. PLATE BRACKET.
3/4" THK. RUBBER BUMPER RECESSED HEAD THRU-BOLTED TO STL. PLATE.
ACCEPTABLE ALTERNATE CONDITION



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Columbia, MD 21045-0701
Columbia, MD 21050 Little Patuxent Parkway, Second Floor, Columbia, MD 21045-0701

A3.1 Architectural Building Sections
Scale: As Indicated Date: 5/17/2018
Project: SPOUT SPRINGS INTERIOR UPFIT
USPS File Number: XXXXXX
USPS Project Number: 097932

GENERAL NOTES

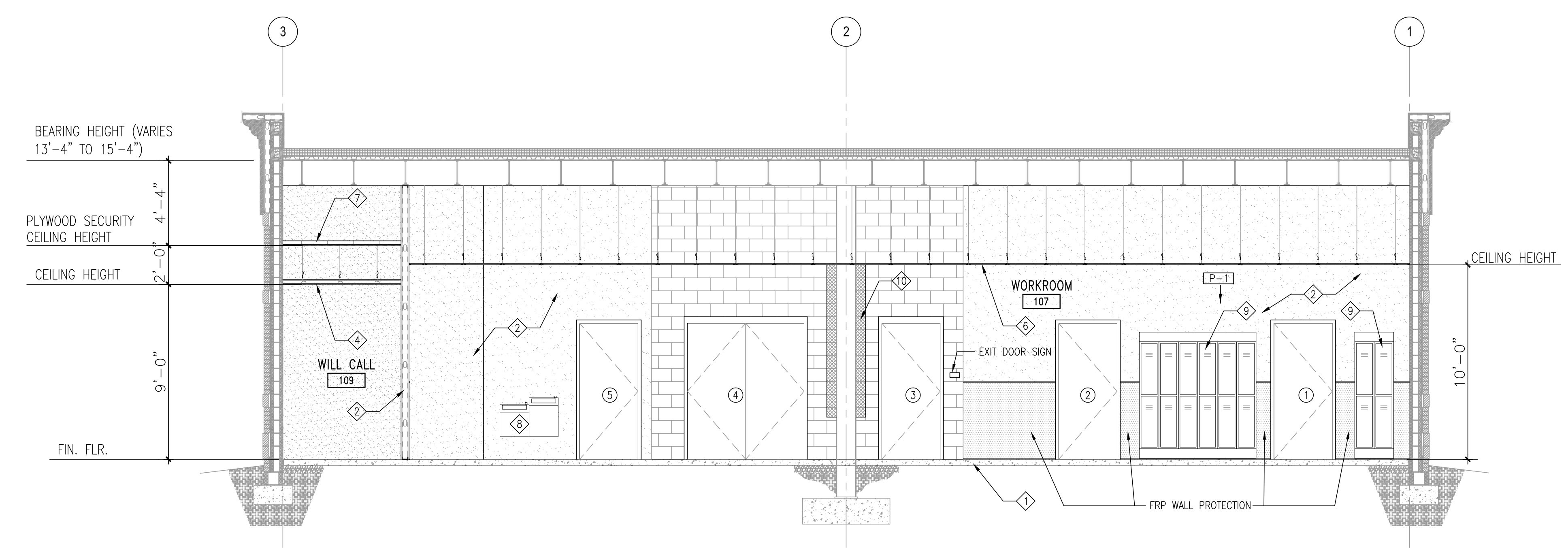
1. SEE PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES.
2. UNLESS OTHERWISE NOTED, INTERIOR DOOR ROUGH OPENING SHALL BE 4" FROM ADJOINING WALL PARTITION.
3. CONTRACTOR TO VERIFY ALL EXISTING DIMENSIONS BEFORE COMMENCING WORK.
4. CONTRACTOR TO PROTECT EXISTING BUILDING SHELL ITEMS INCLUDING WALLS, COLUMNS, STAIRS, FRAMING, AND ROOF, TYPICAL.
5. SEE SCHEDULES SHEET A2.1 FOR FLOOR AND WALL FINISHES, DOORS, AND WINDOWS.
6. ALL NEW CONSTRUCTION SHALL BE PER USPS STANDARDS.

KEYED NOTES

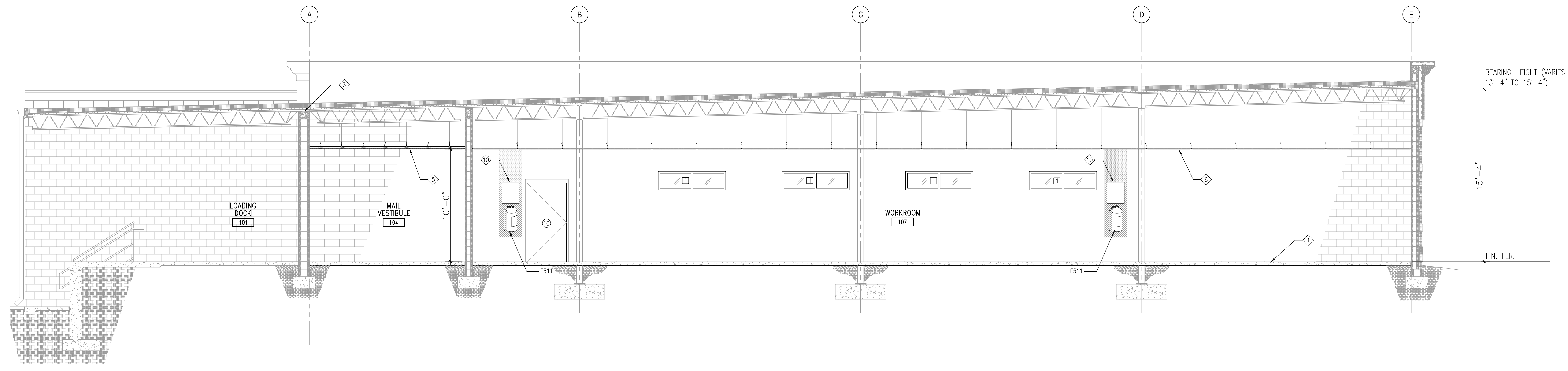
1. PROVIDE NEW 4" REINFORCED CONCRETE SLAB ON 15 MIL VAPOR BARRIER OVER EXISTING GRAVEL BED. SEE CONTROL JOINT PLAN SHEET A1.0.
2. PROVIDE NEW 20GA 3-5/8" METAL STUD WALLS WITH FINISHES. SEE A6.4 FOR WALL TYPES.
3. PROVIDE MINERAL WOOL PACKED BETWEEN FLUTES OF METAL DECK AND TOP OF PARTITION. SEE DETAIL 1/A6.4.
4. PROVIDE NEW SUSPENDED GYPSUM BOARD CEILING. PAINT. SEE DETAIL 6/A7.3.
5. PROVIDE NEW SUSPENDED PLYWOOD CEILING. PAINT. SEE DETAIL 9/A7.3.
6. PROVIDE NEW 2'X4' ACOUSTICAL CEILING TILE, GRID, AND HANGARS.
7. PROVIDE NEW 3-5/8" 20GA METAL STUD FRAMING @ 16" O.C. AND PLYWOOD SECURITY CEILING @ 11'-0" A.F.F. IN WILL-CALL ROOM 109.
8. PROVIDE NEW HI-LOW ADA ACCESSIBLE WATER FOUNTAIN, SEE DETAIL 16/A5.1.
9. PROVIDE 8 NEW DOUBLE LOCKERS, SEE DETAIL 11/A6.4.
10. PROVIDE NEW FIRE EXTINGUISHER PER USPS STANDARDS. INSTALL PER NFPA 72. PAINT AREA RED AS SHOWN TO MATCH DETAILS. SEE DETAIL 5/A7.3.

BUILDING SECTION LEGEND

- ① DOOR NUMBER - SEE SHEET A2.1 FOR DOOR SCHEDULE
- WINDOW TYPE - SEE SHEET A2.1 FOR WINDOW TYPES
- OFFICE ROOM NAME & NUMBER - SEE SHEET A2.1 FOR FINISH SCHEDULE
- 101



1 BUILDING SECTION
SCALE: 1/4" = 1'-0"



2 BUILDING SECTION
SCALE: 1/4" = 1'-0"



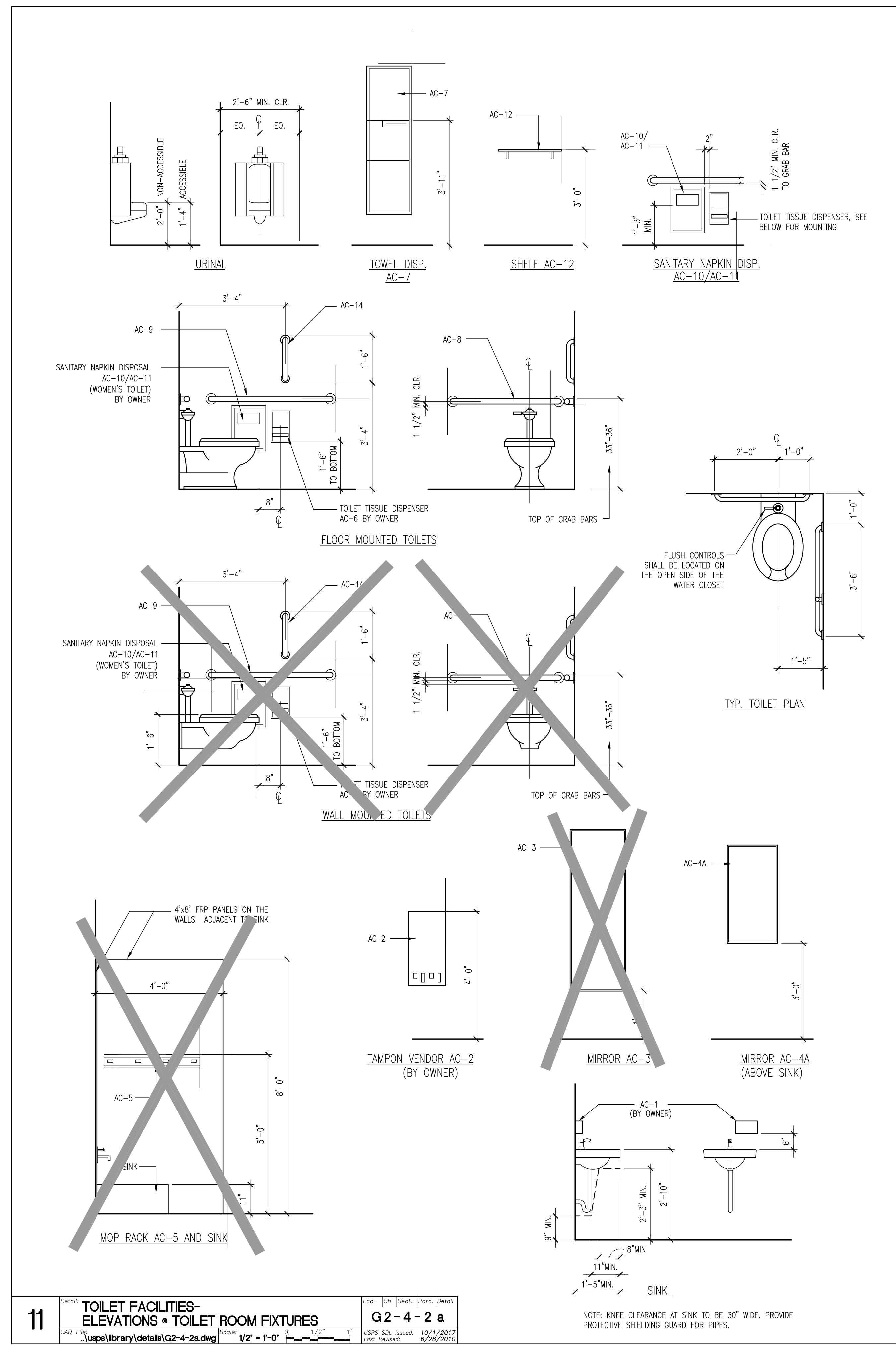
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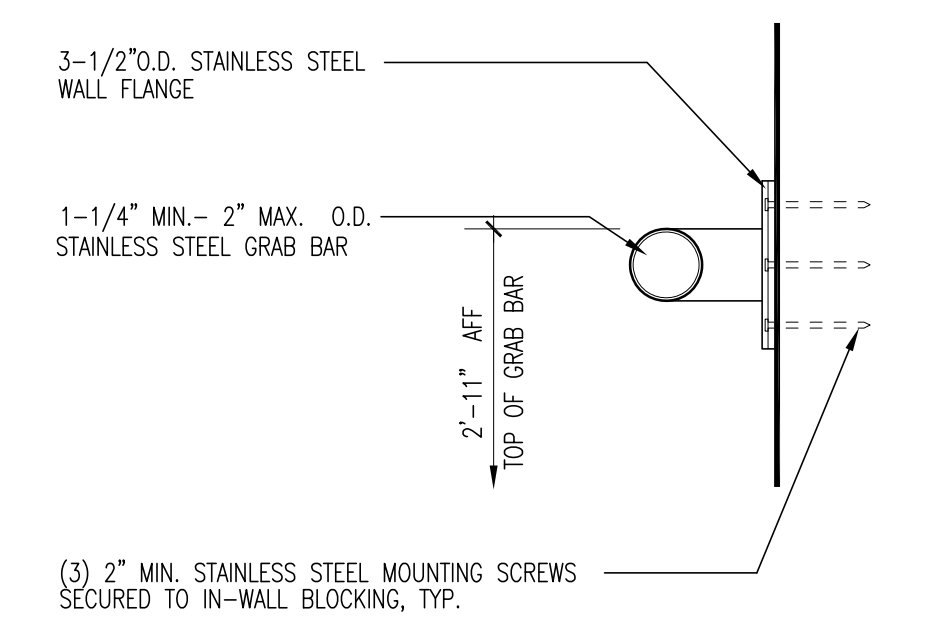
A5.1 Architectural Interior Elevations and Details
 Scale: As Indicated Date: 5/17/2018
 Project: SPOUT SPRINGS INTERIOR UPFIT
 USPS File Number: XXXXXX
 USPS Project Number: 097932

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3 TOILET FACILITIES - SECTION - GRAB BAR
 Detail: [Ch] [Sect] [Para] [Detail]
 G2-4-2 b
 CAD: [Library] [Detail] [G2-4-2b.dwg] Scale: 3" = 1'-0" Date: 10/12/2017
 User: [Name] Last Revised: 8/17/2018

NOTE:
 1. INSTALLATION MUST WITHSTAND 250 LB. FORCE IN ANY DIRECTION.



ELEVATION LEGEND

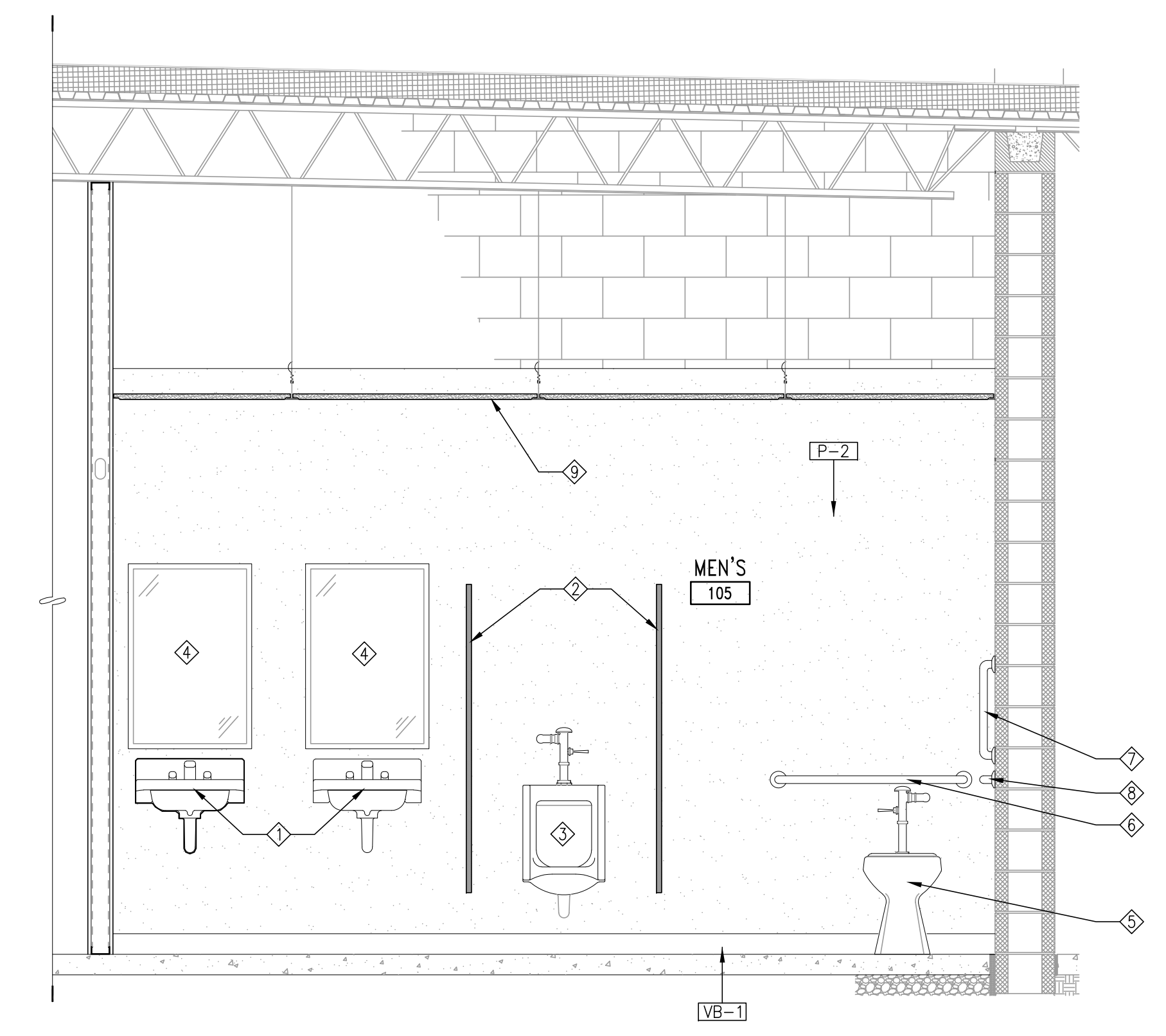
- ① DOOR NUMBER - SEE SHEET A2.1 FOR DOOR SCHEDULE
- OFFICE ROOM NAME & NUMBER - SEE SHEET A2.1 FOR FINISH SCHEDULE
- 101

GENERAL NOTES

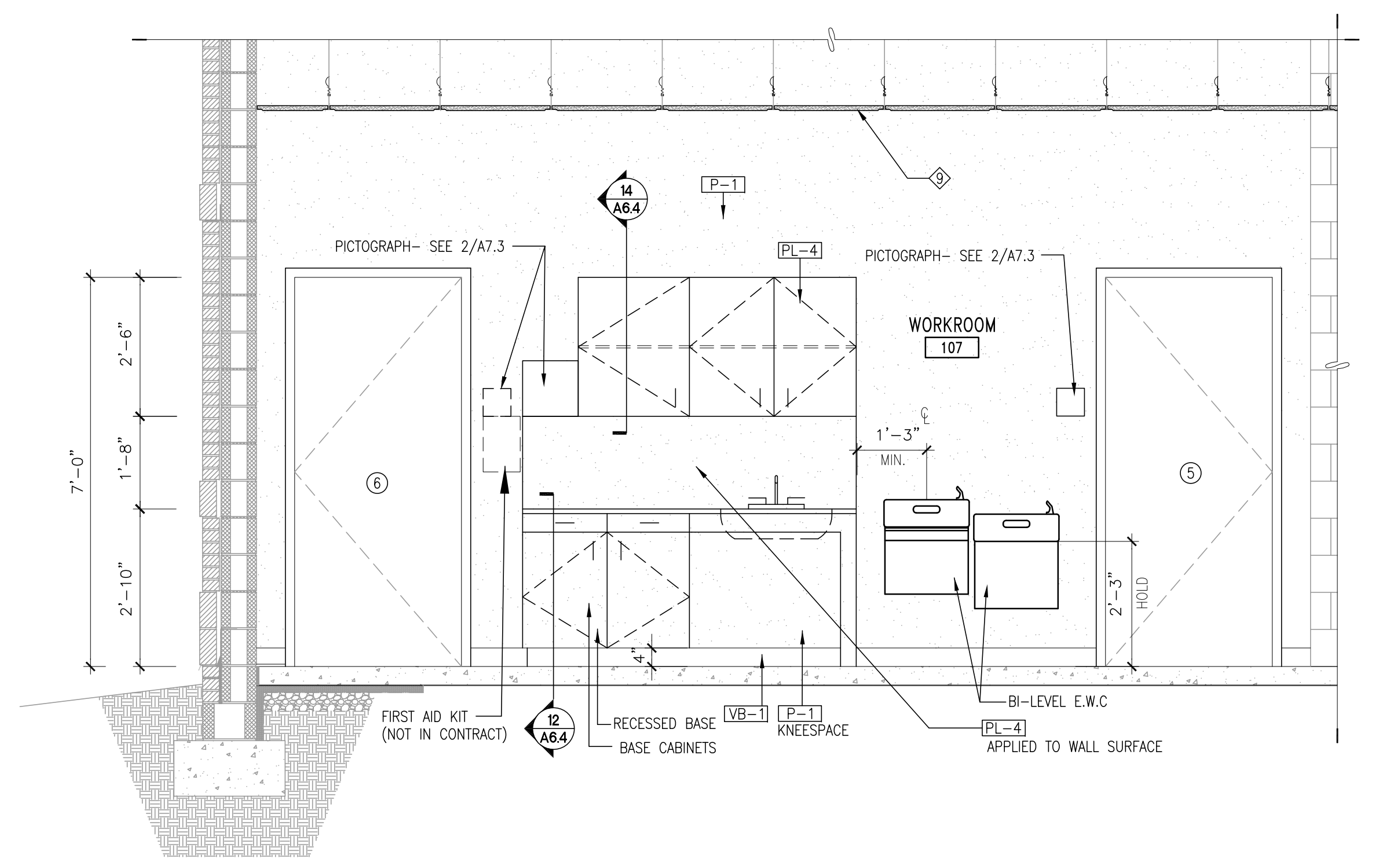
1. SEE PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES.
2. UNLESS OTHERWISE NOTED, INTERIOR DOOR ROUGH OPENING SHALL BE 4" FROM ADJOINING WALL PARTITION.
3. CONTRACTOR TO VERIFY ALL EXISTING DIMENSIONS BEFORE COMMENCING WORK.
4. CONTRACTOR TO PROTECT EXISTING BUILDING SHELL ITEMS INCLUDING WALLS, COLUMNS, STAIRS, FRAMING, AND ROOF. TYPICAL.
5. SEE SCHEDULES SHEET A2.1 FOR FLOOR AND WALL FINISHES, DOORS, AND WINDOWS.
6. ALL NEW CONSTRUCTION SHALL BE PER USPS STANDARDS.

KEYED NOTES

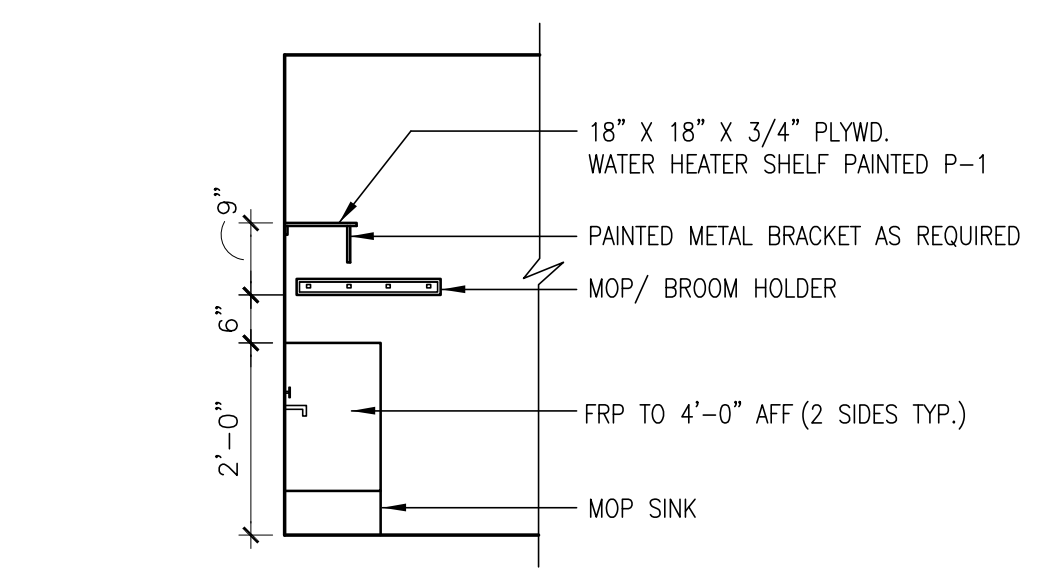
- 1 WALL MOUNTED SINK. SEE DETAIL 11/A5.1.
- 2 PROVIDE 1" THICK WATER/GRAFFITI RESISTANT, NON-ABSORBENT PLASTIC FACED TOILET/URINAL PARTITIONS PER USPS STANDARDS. CLEAR WIDTH AS SHOWN.
- 3 WALL MOUNTED URINAL. CENTERLINE OF URINAL SHALL BE MIN. SEE DETAIL 11/A5.1.
- 4 24" X 36" ADA TILT MIRROR W/ STAINLESS STEEL FRAME. SEE DETAIL 11/A5.1.
- 5 FLOOR MOUNTED FLUSH VALVE ADA TOILET. SEE DETAIL 11/A5.1.
- 6 36" GRAB BAR. SEE DETAIL 11/A5.1.
- 7 18" GRAB BAR. SEE DETAIL 11/A5.1.
- 8 42" GRAB BAR. SEE DETAIL 11/A5.1.
- 9 PROVIDE NEW 2'X4' ACOUSTICAL CEILING TILE, GRID, AND HANGARS. SEE SHEET A2.1.



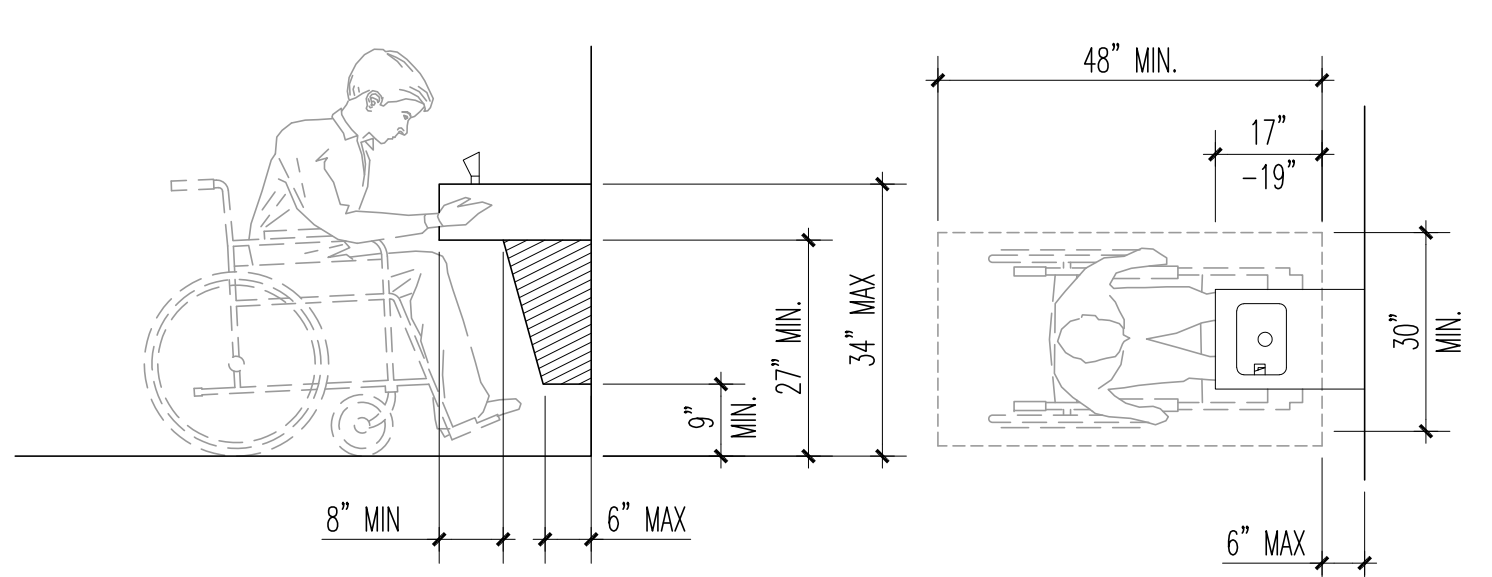
14 INTERIOR ELEVATION
 SCALE: 1/2" = 1'-0" 0 1' 2' 4'



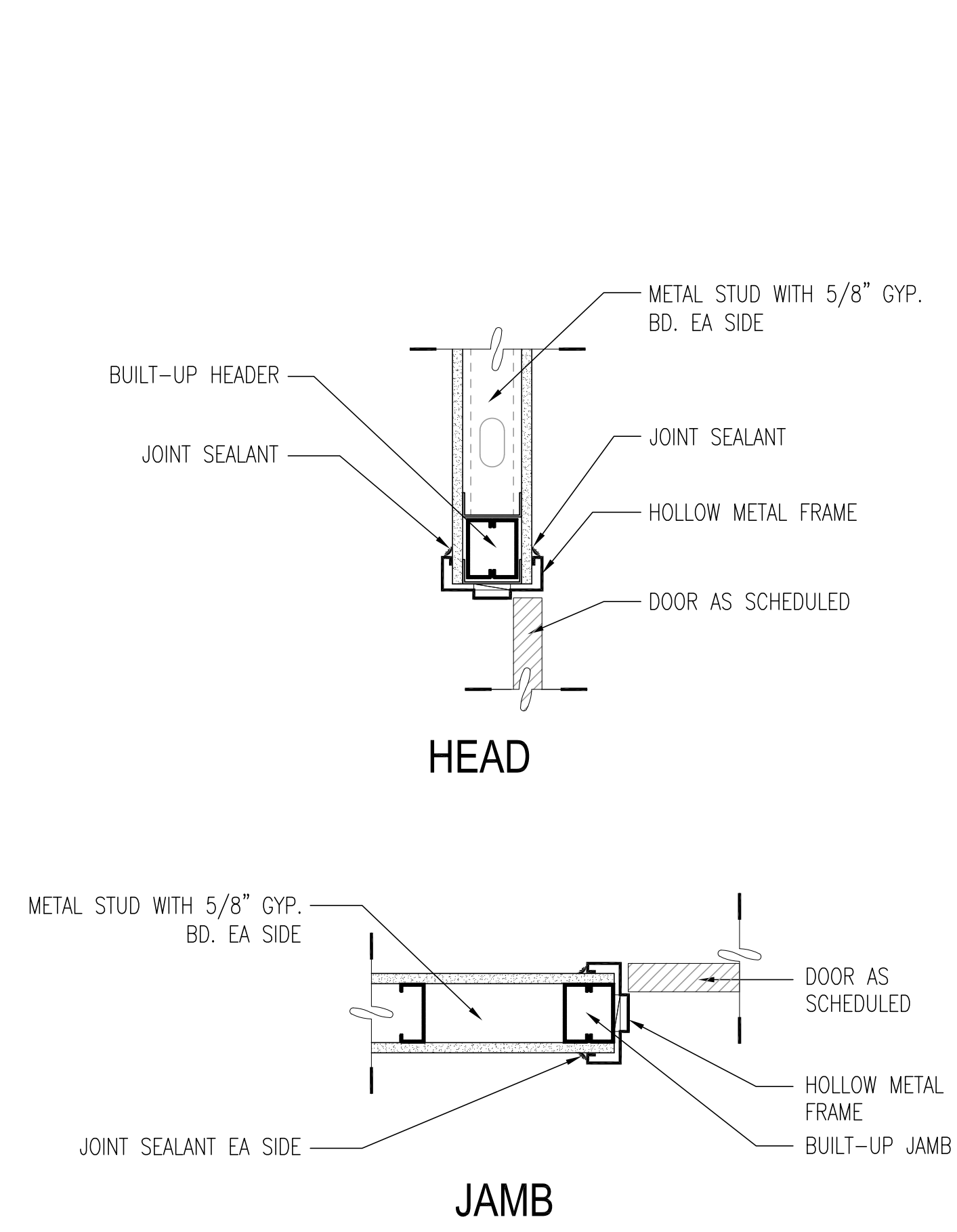
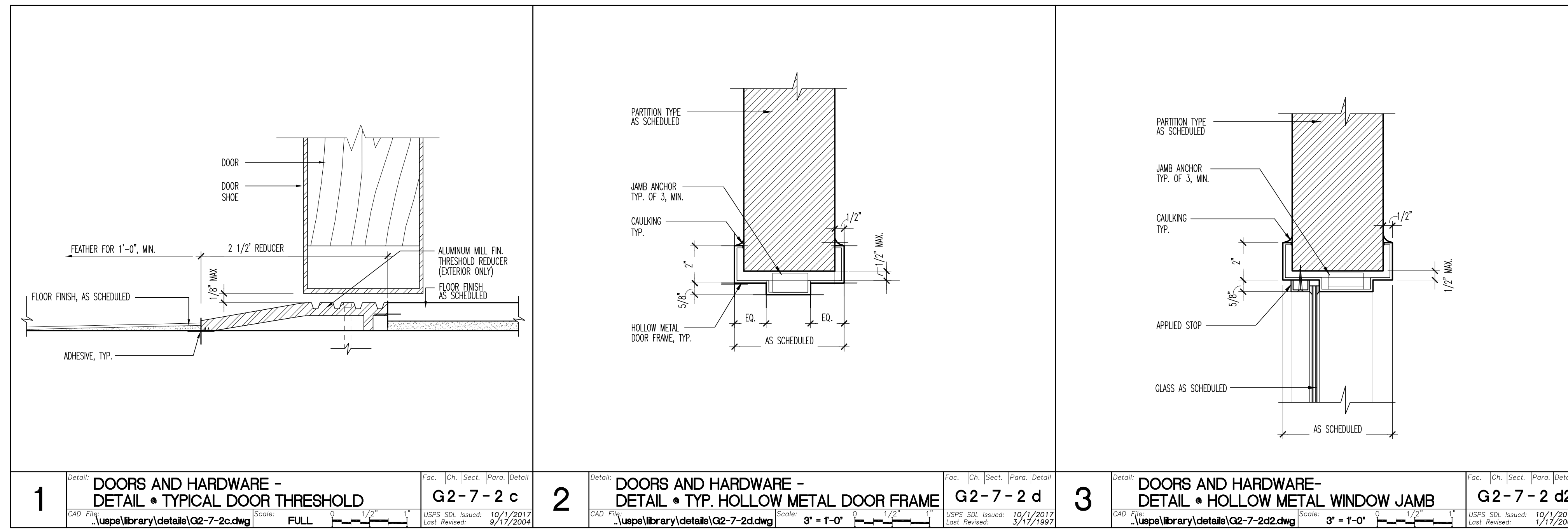
17 INTERIOR ELEVATION
 SCALE: 1/2" = 1'-0" 0 1' 2' 4'



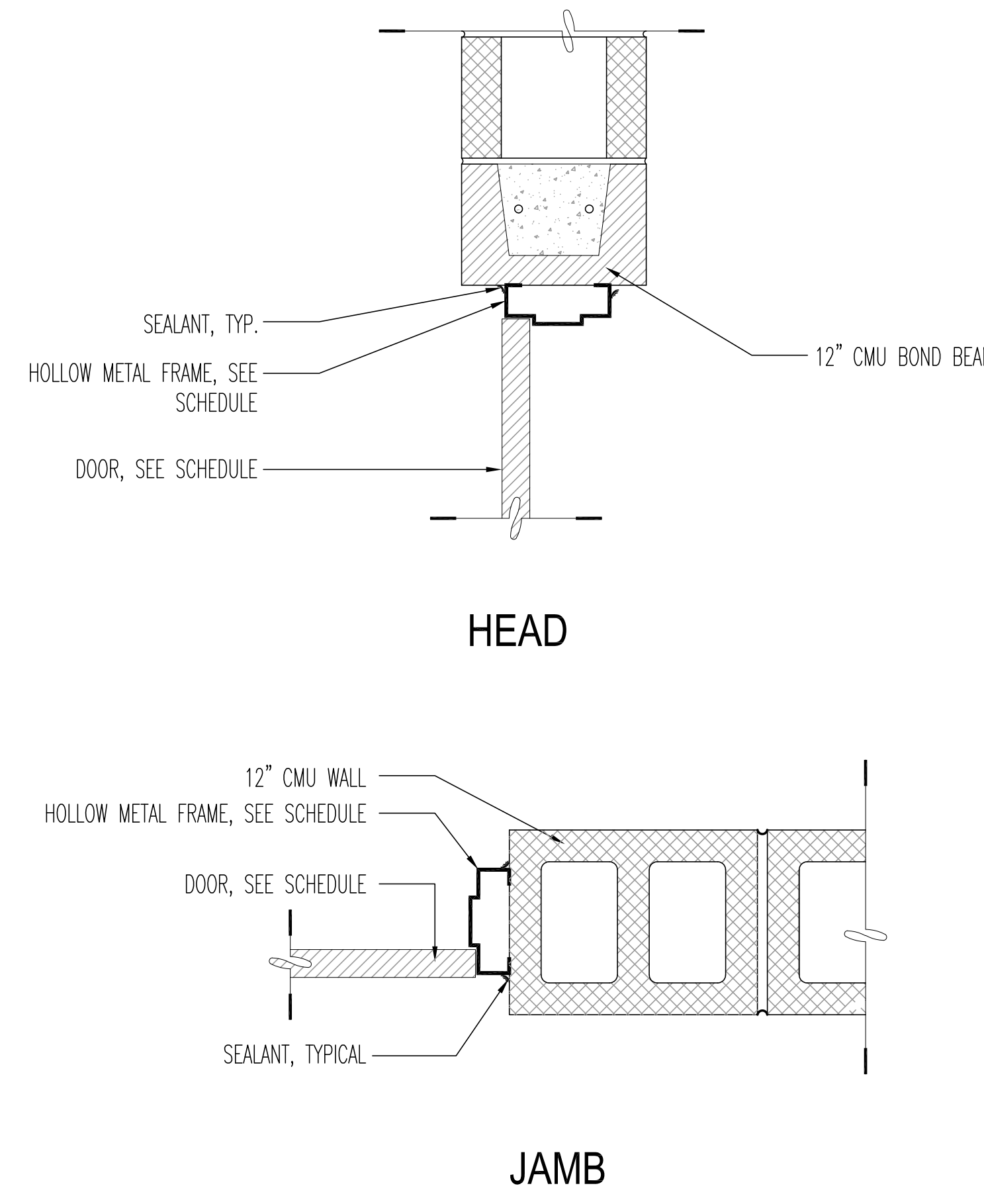
15 MOP RACK AND SINK DETAIL
 SCALE: 1/2" = 1'-0" 0 1' 2' 4'



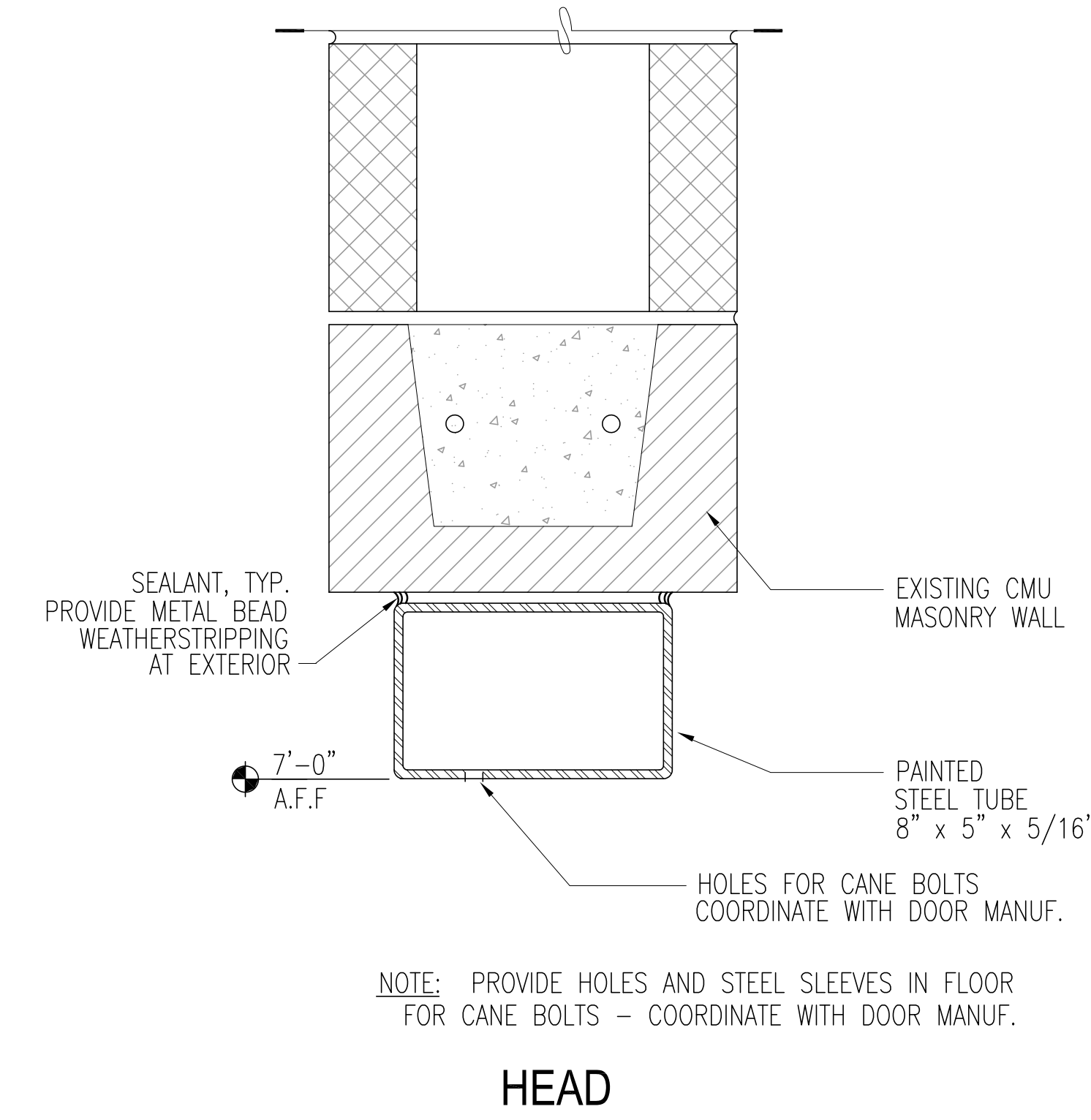
16 ADA DRINKING FOUNTAIN DETAIL
 SCALE: N.T.S.



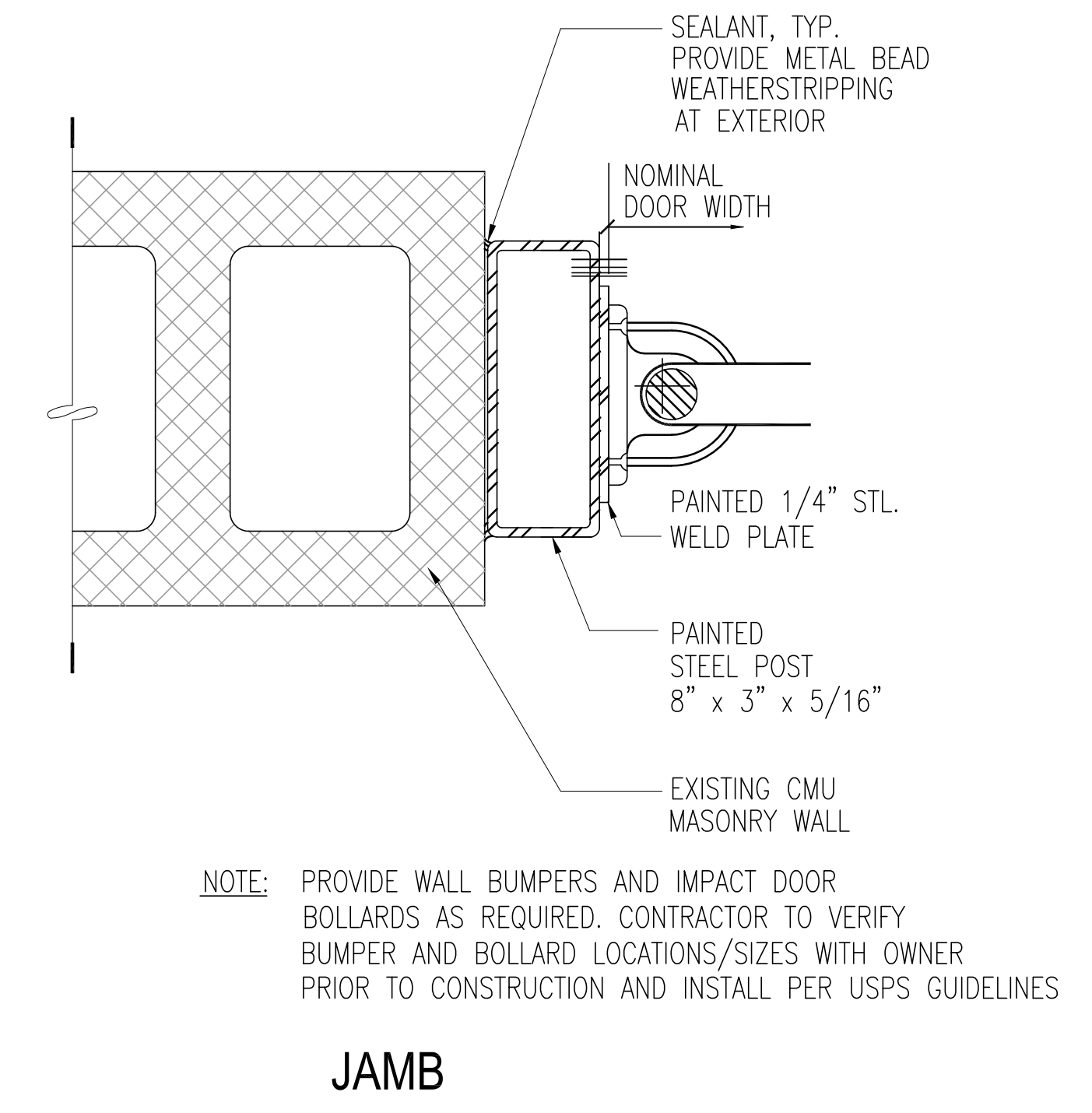
6 DOOR DETAIL AT METAL STUD WALL
 SCALE: 1 1/2" = 1'-0" 0 4" 8" 1'-4"



7 DOOR DETAIL AT CMU WALL
 SCALE: 1 1/2" = 1'-0" 0 4" 8" 1'-4"



8 USPS IMPACT DOOR DETAIL
 SCALE: 3" = 1'-0" 0 3" 6" 9"



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INTERIOR UPTIT
 USPS SPOUT SPRINGS NC CAX
 XXXXXXXXX
 XXXXXXXXX



A6.3 Architectural Door Details
 Scale: As Indicated Date: 5/17/2018
 Project: SPOUT SPRINGS INTERIOR UPTIT
 USPS File Number: XXXXXX
 USPS Project Number: 097932

Columbia, MD 21045-0701
 Columbia, MD 21050 Little Patuxent Parkway, Second Floor, Columbia, MD 21045-0701

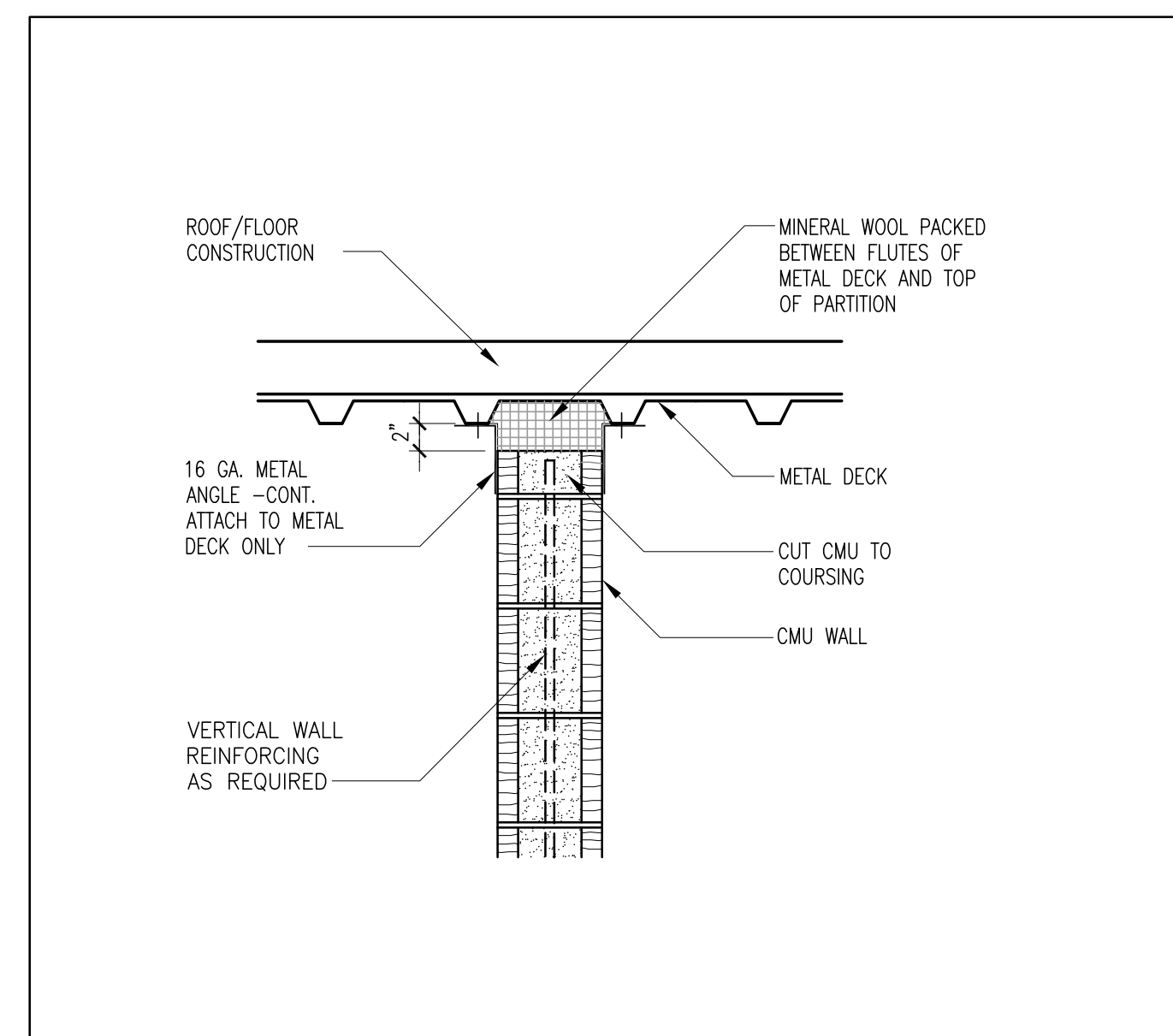


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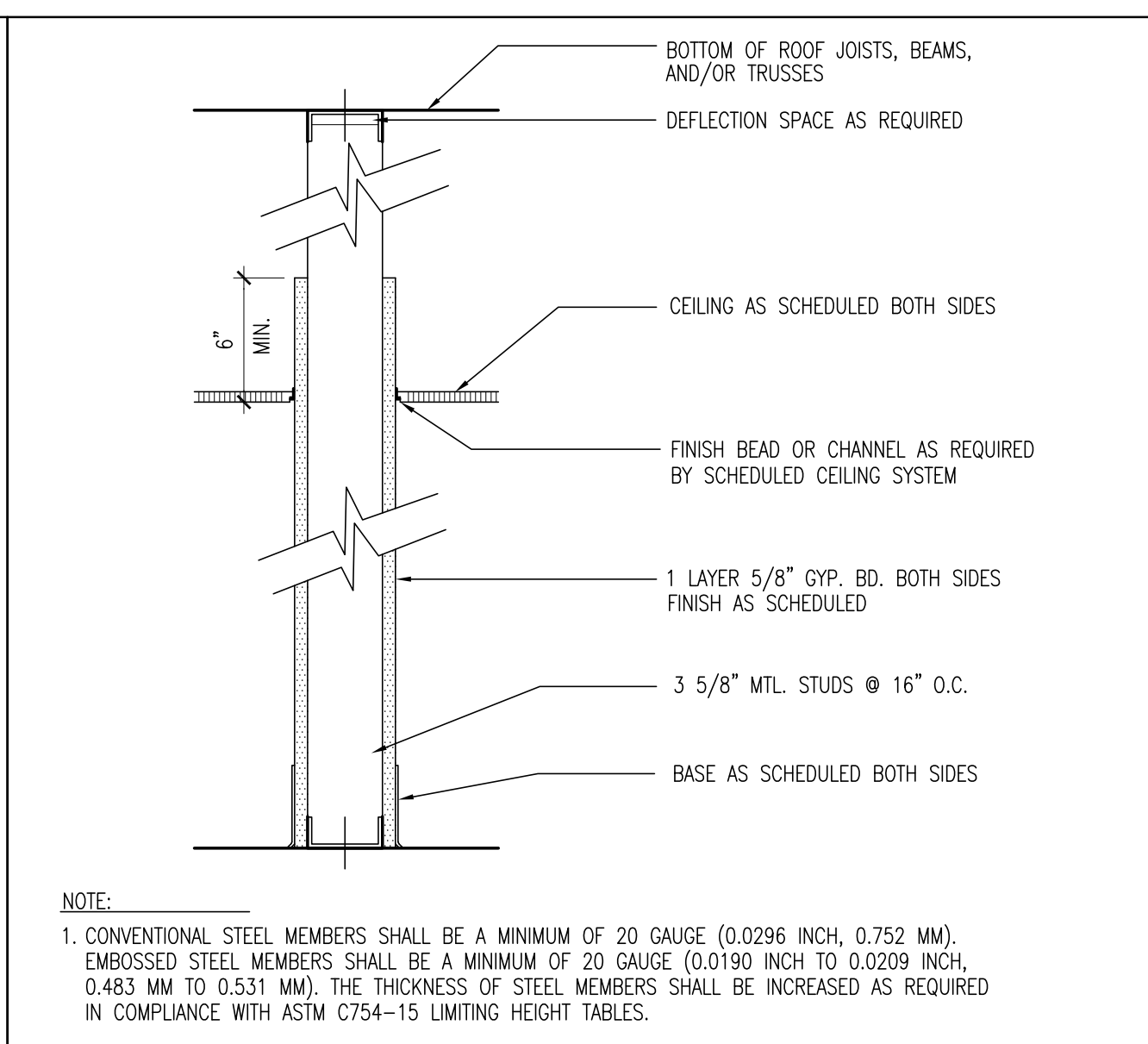
INTERIOR UPTIT
 USPS SPOUT SPRINGS NC CAX
 XXXXXXXXXX
 XXXXXXXXXX

UNITED STATES
 POSTAL SERVICE

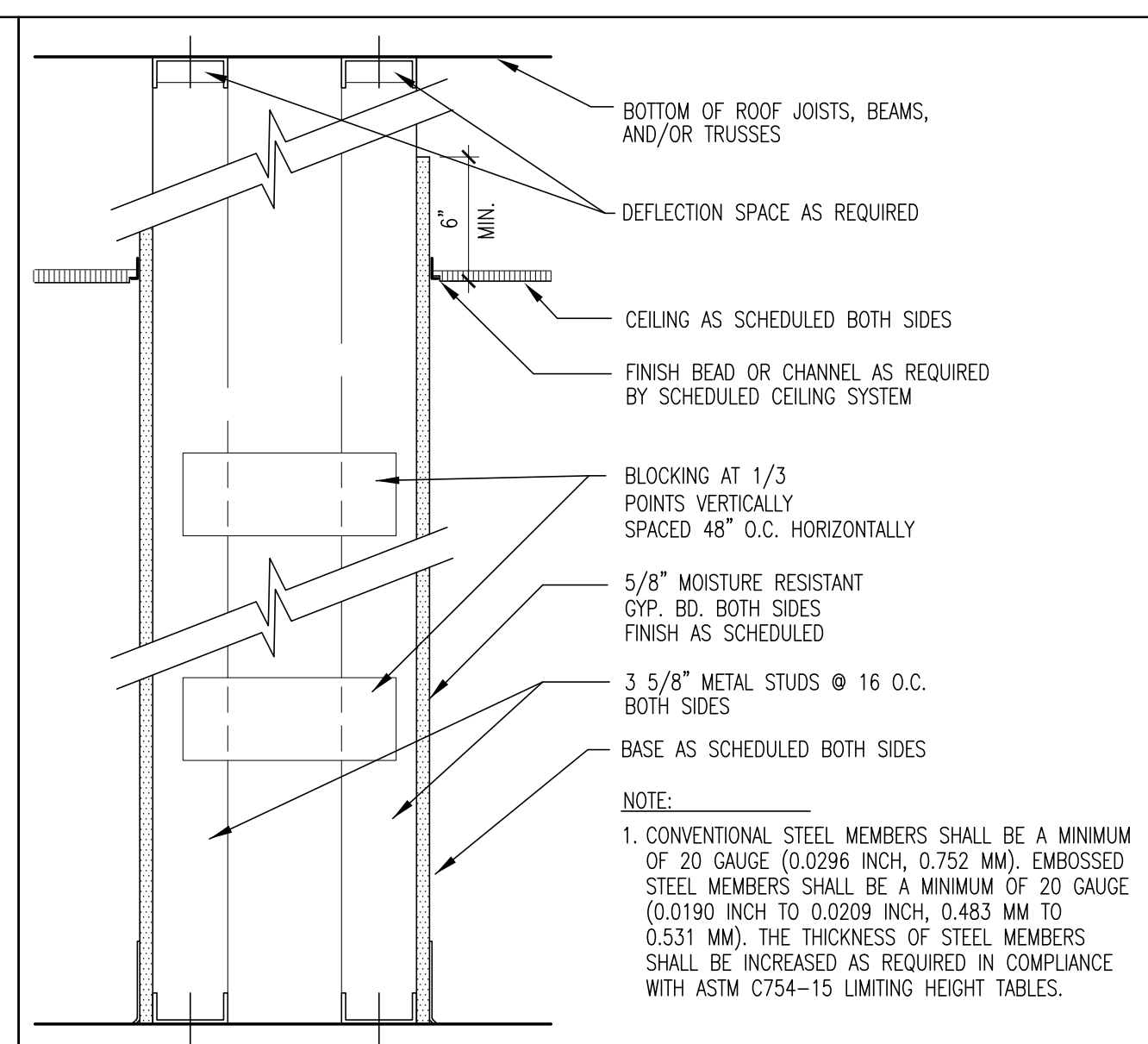
Columbia, MD 21045-0701
 A6.4 Architectural Interior Wall Types and Details
 Scale: As Indicated Date: 5/17/2018
 Project: SPOUT SPRINGS INTERIOR UPTIT
 USPS File Number: XXXXXXX
 USPS Project Number: 097932



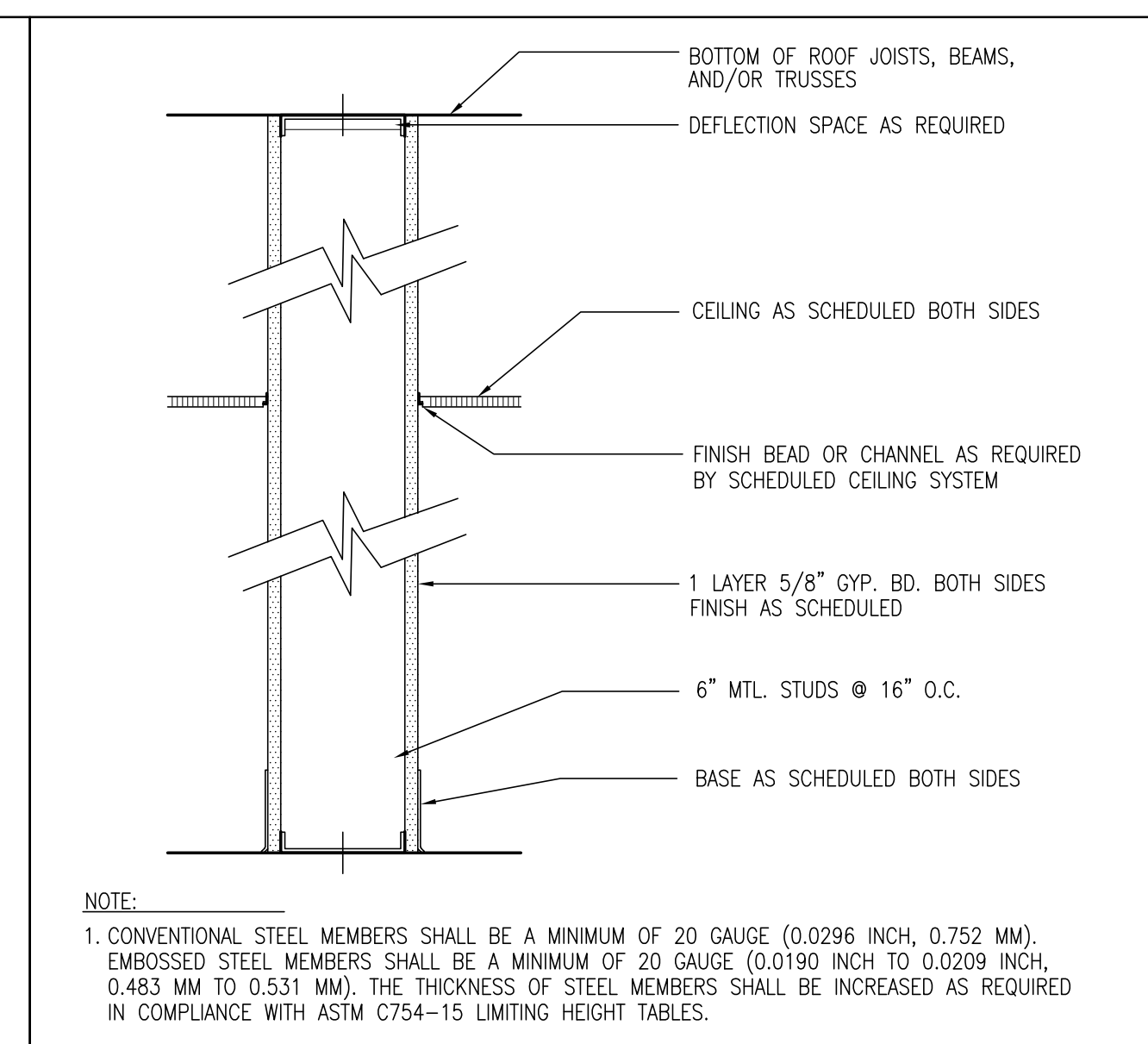
1 Interior Partitions - Detail of Top of CMU Partition
 G2-7-0 d
 Scale: 1/2" = 1'-0"
 Date: 10/12/2017
 Last Revised: 3/12/2018



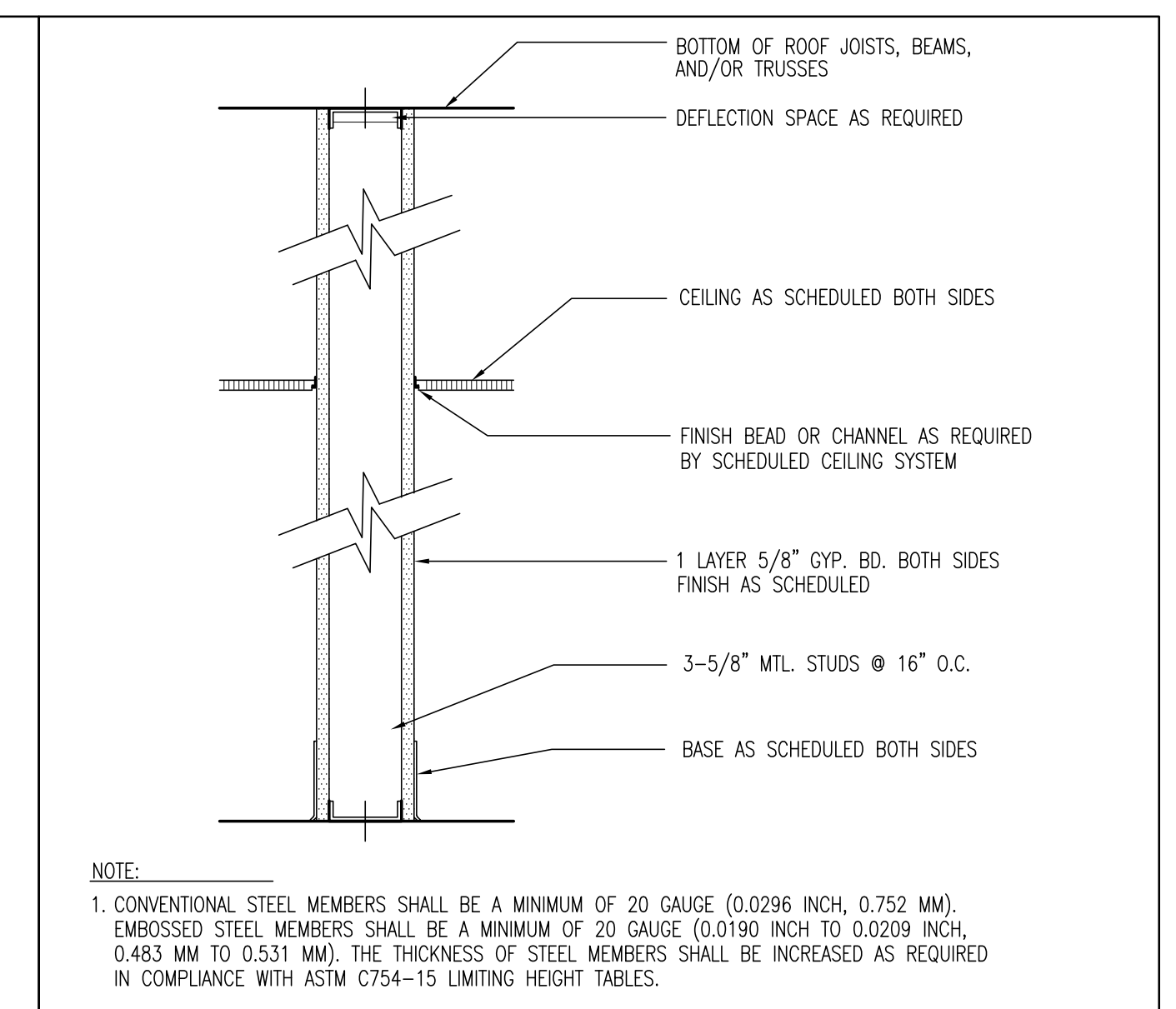
2 Interior Partitions - Type D2 (Full Ht. Stud) - 3 5/8" Metal Stud
 G2-7-1 d2
 Scale: 1/2" = 1'-0"
 Date: 10/12/2017
 Last Revised: 7/16/2016



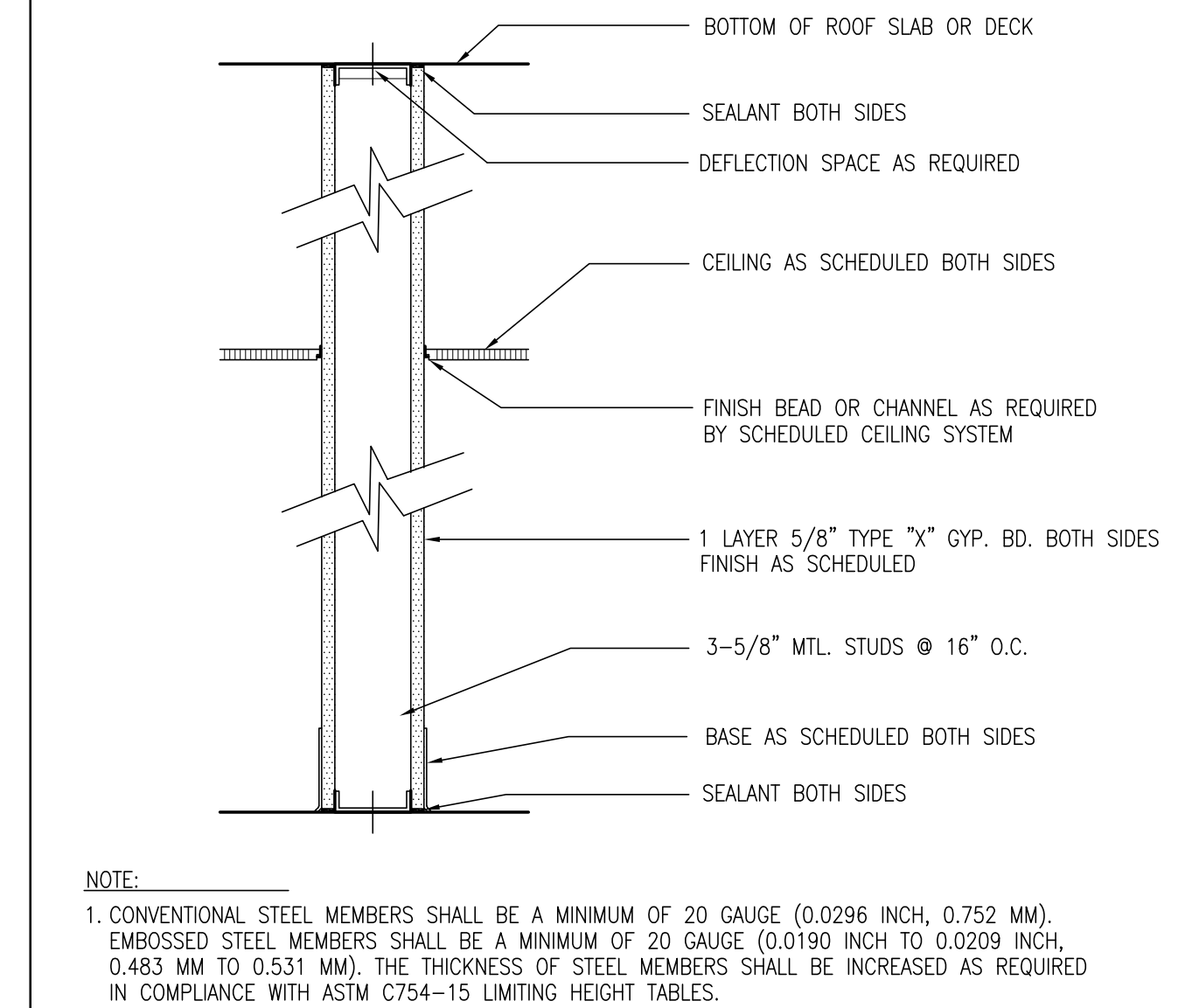
3 Interior Partitions - Type F2 (Chase Wall) - 3 5/8" Metal Studs
 G2-7-1 f2
 Scale: 1/2" = 1'-0"
 Date: 10/12/2017
 Last Revised: 7/16/2016



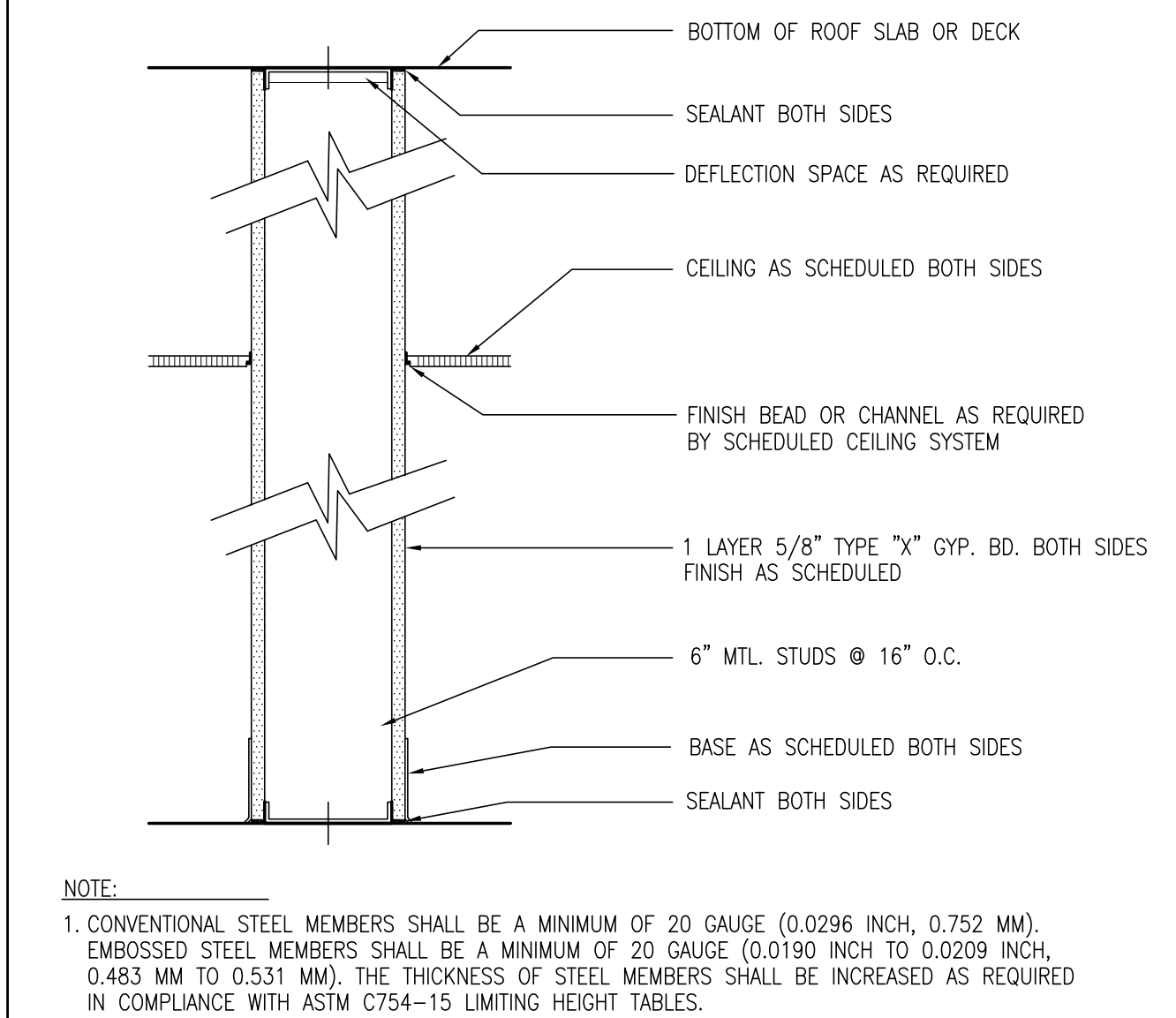
4 Interior Partitions - Type H3 (Full Height) - 6" Metal Studs
 G2-7-1 h3
 Scale: 1/2" = 1'-0"
 Date: 10/12/2017
 Last Revised: 7/16/2016



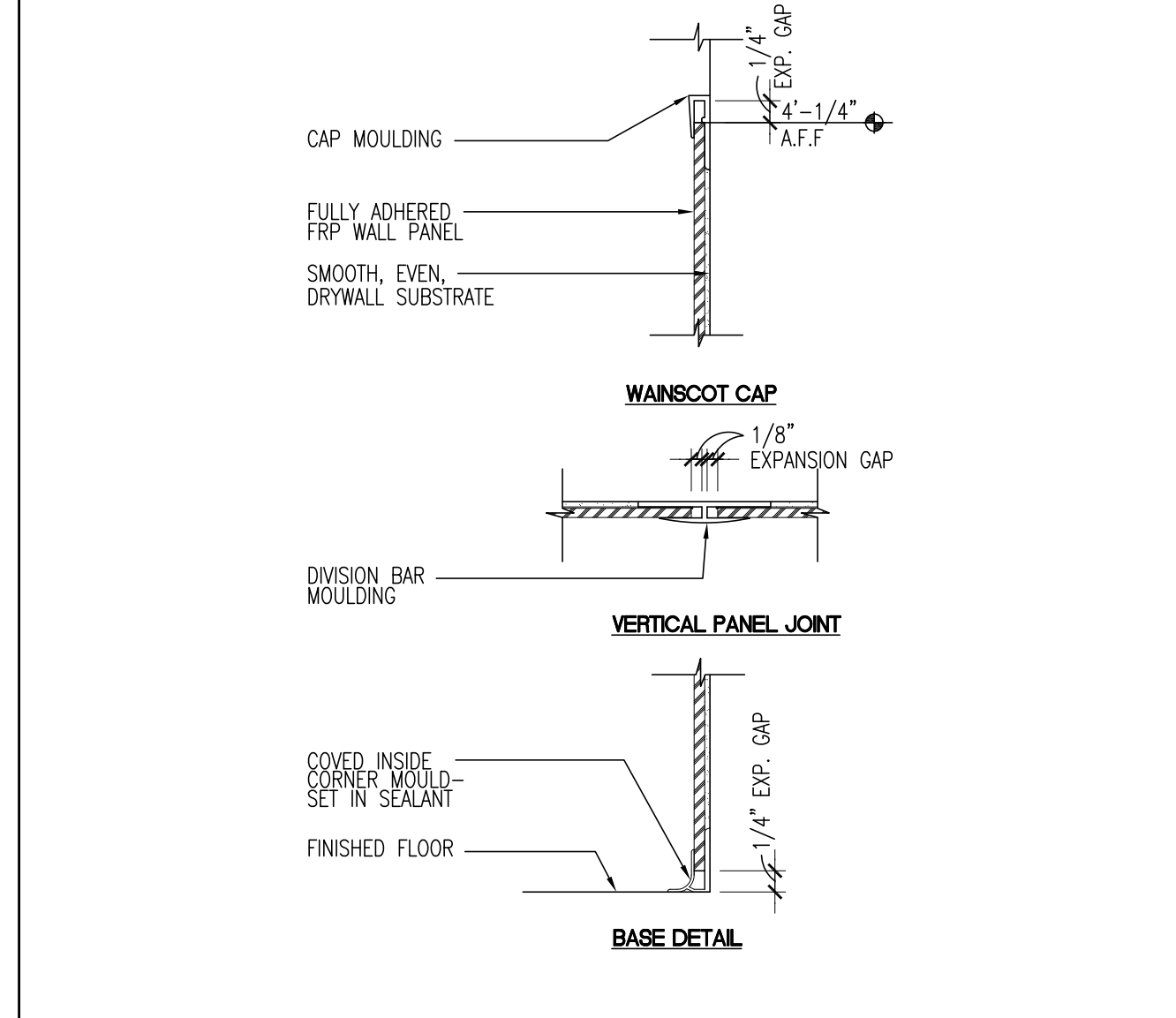
5 Interior Partitions - Type J2 (Security) - 3 5/8" Metal Studs
 G2-7-1 j2
 Scale: 1/2" = 1'-0"
 Date: 10/12/2017
 Last Revised: 7/16/2016



6 Interior Partitions - Type N2 (1 Hour UL #465) - 3 5/8" Metal Studs
 G2-7-1 n2
 Scale: 1/2" = 1'-0"
 Date: 10/12/2017
 Last Revised: 7/16/2016



7 Interior Partitions - Type N3 (1 Hour UL #465) - 6" Metal Studs
 G2-7-1 n3
 Scale: 1/2" = 1'-0"
 Date: 10/12/2017
 Last Revised: 7/16/2016



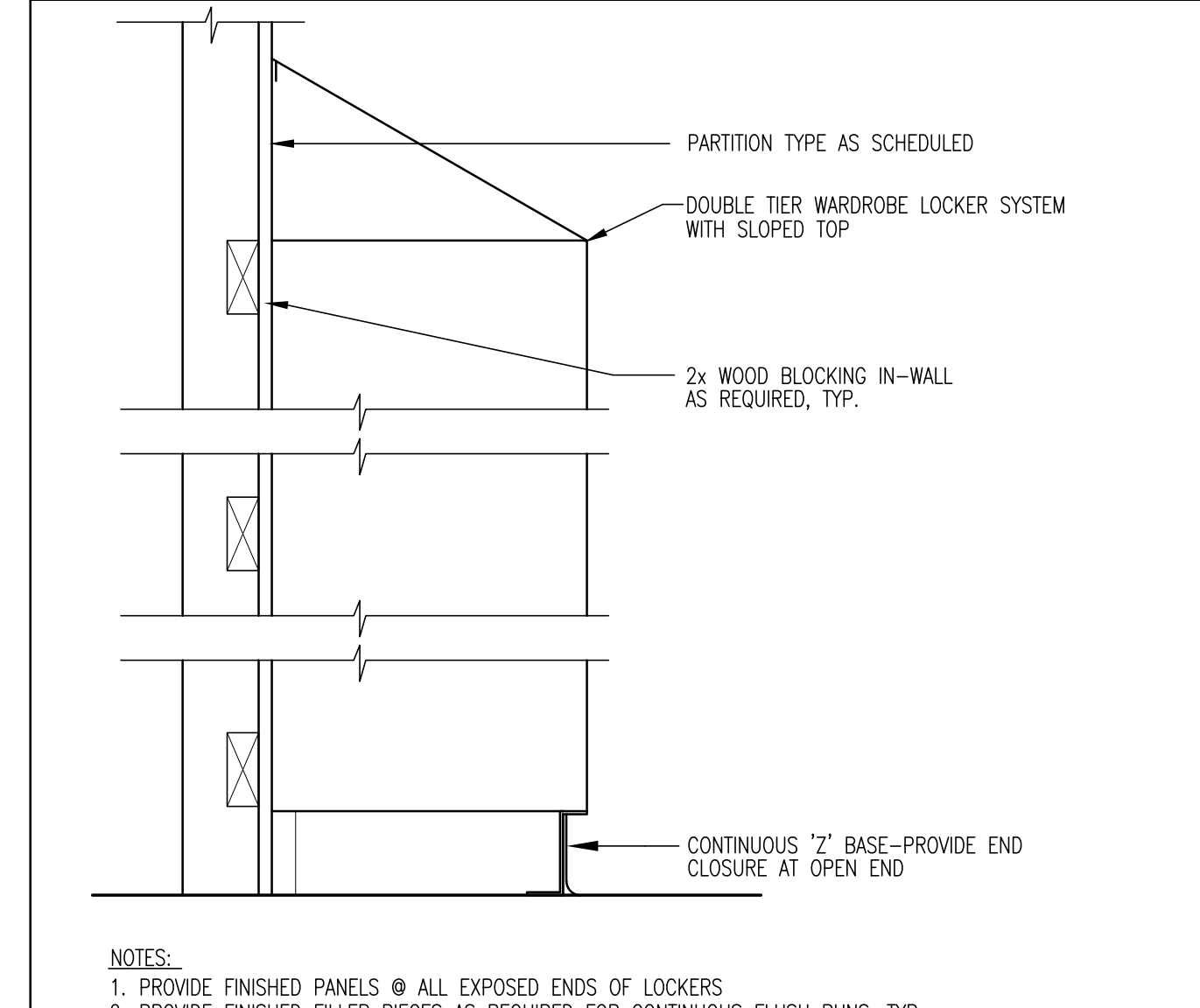
8 Protective Barriers - Fiberglass Reinforced Plastic (FRP) Panel Detail
 G2-7-4 e3
 Scale: 6" = 1'-0"
 Date: 10/12/2017
 Last Revised: 7/16/2016



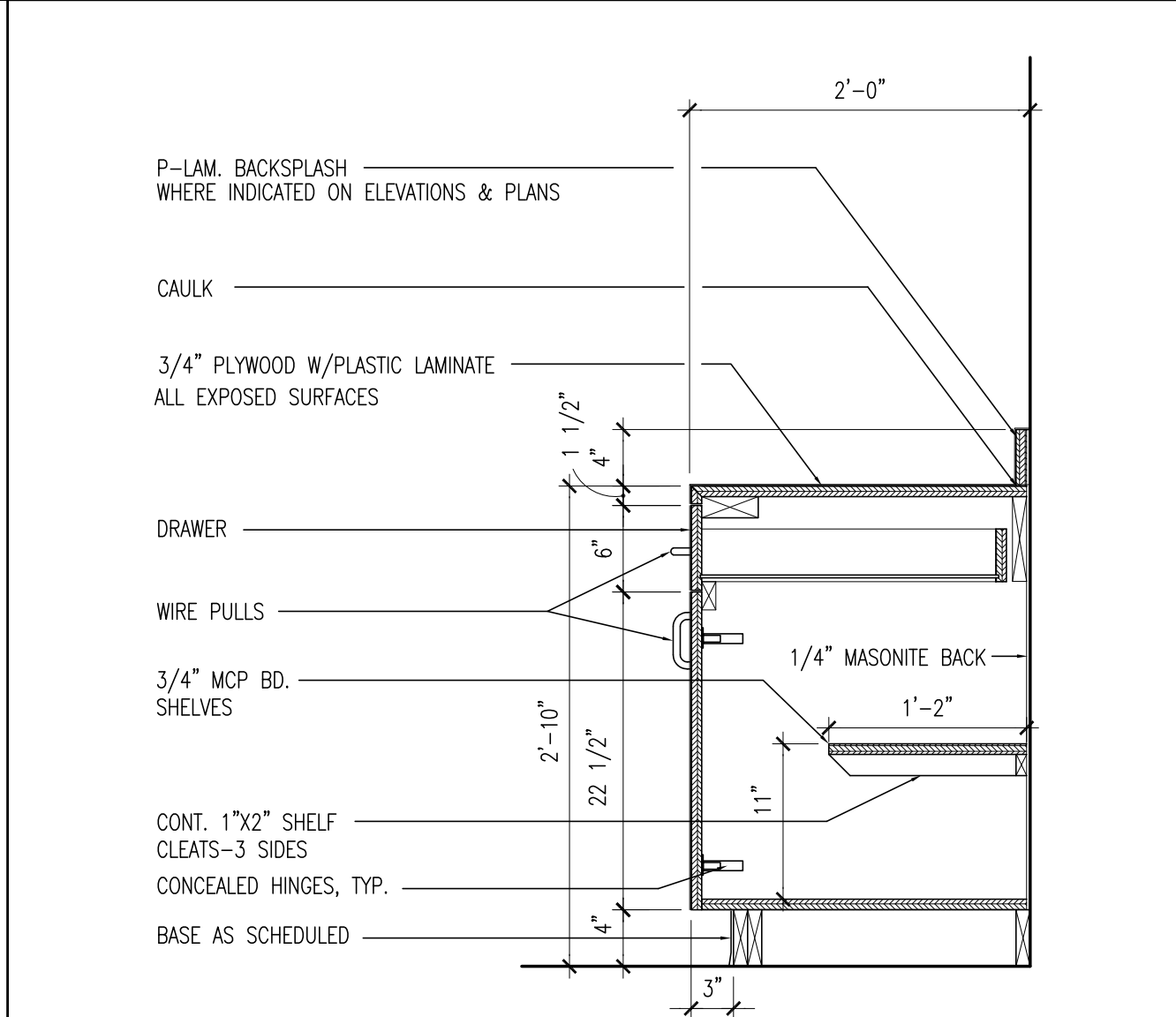
9 NOT USED



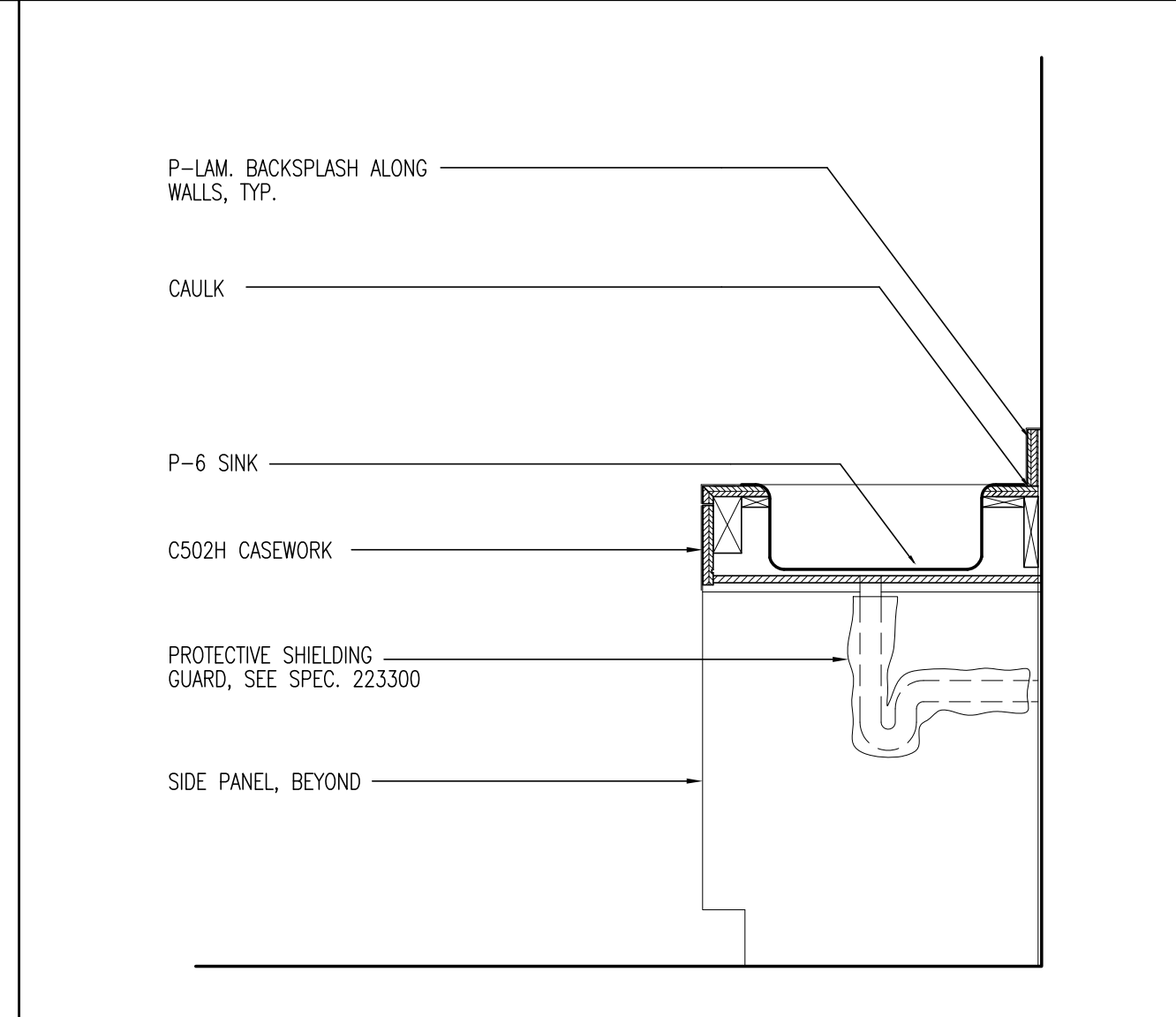
10 NOT USED



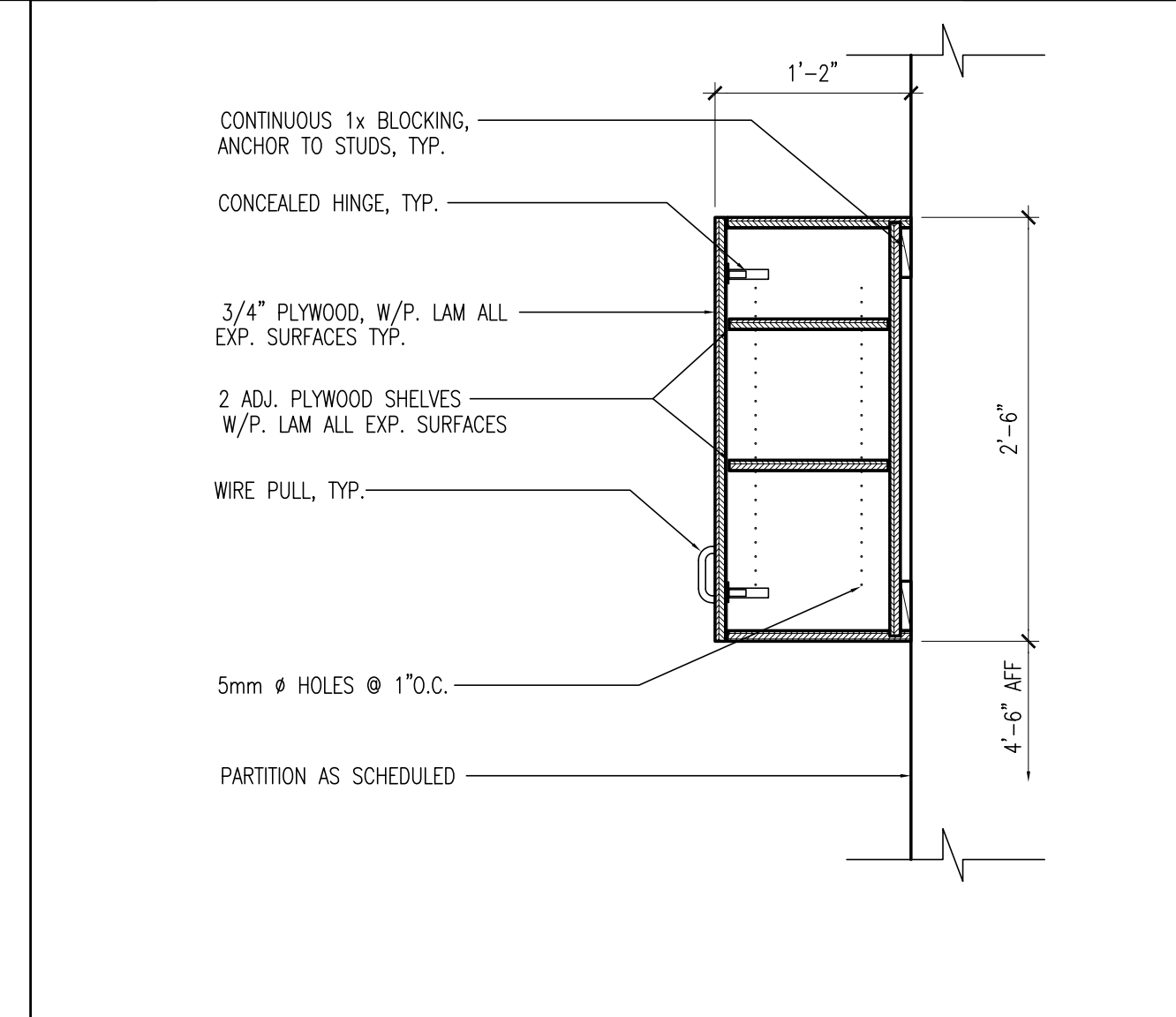
11 Support Areas - Section of Wardrobe Lockers
 G2-4-3 a
 Scale: 1/2" = 1'-0"
 Date: 10/12/2017
 Last Revised: 3/12/1992



12 Lunchroom/Break Area - Section Through Typ. Base Cabinet
 G2-4-4 a
 Scale: 1" = 1'-0"
 Date: 10/12/2017
 Last Revised: 3/12/1992



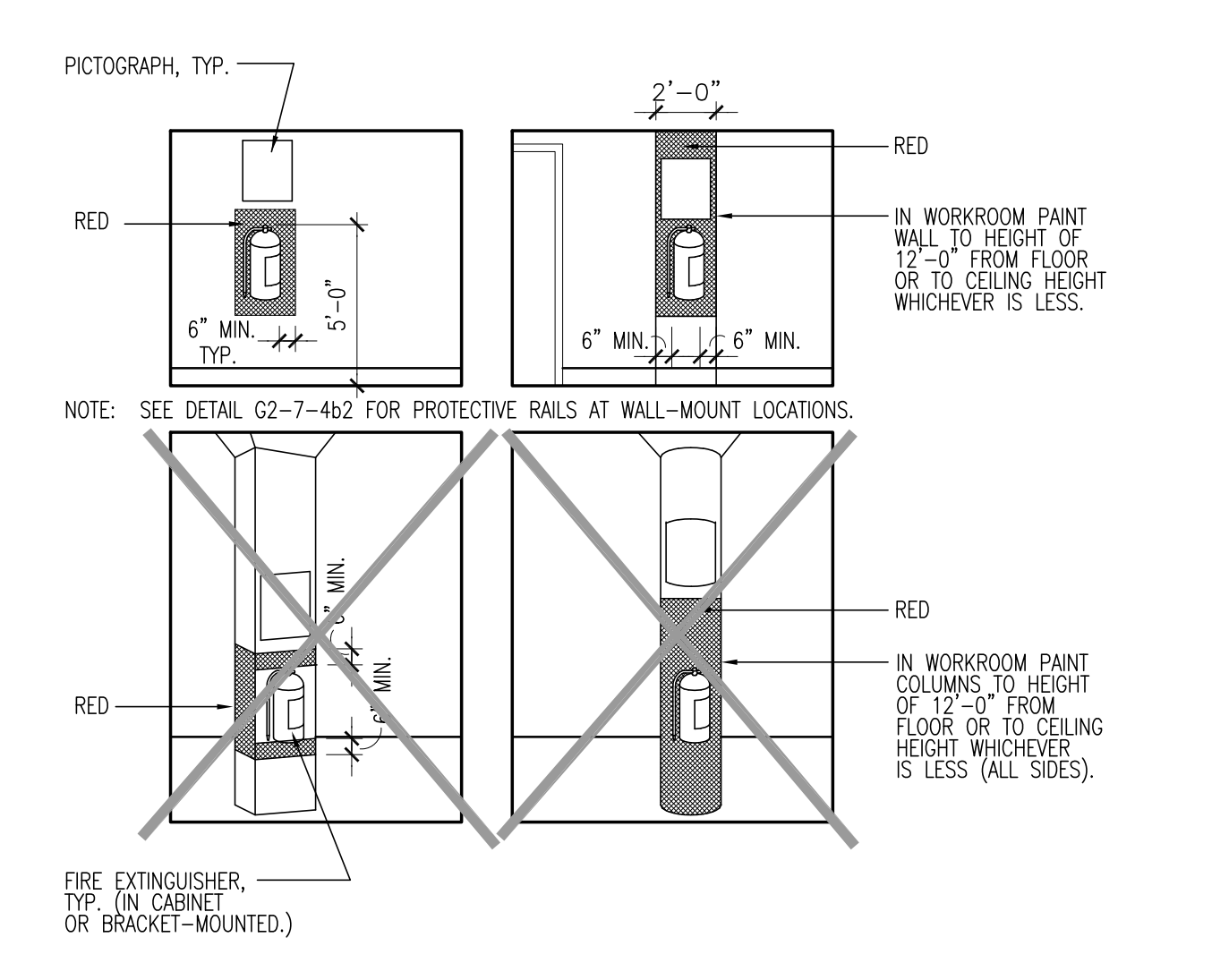
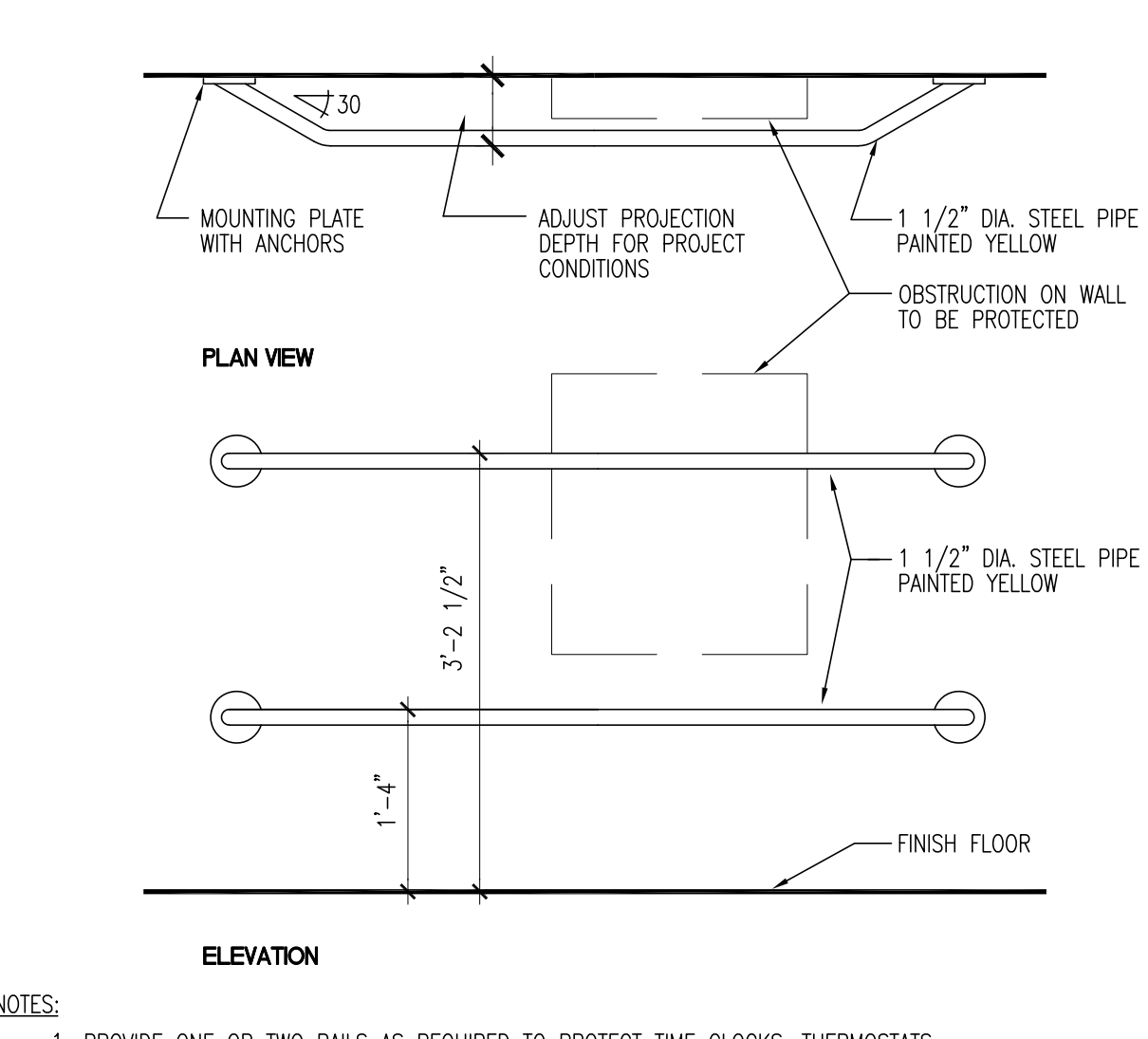
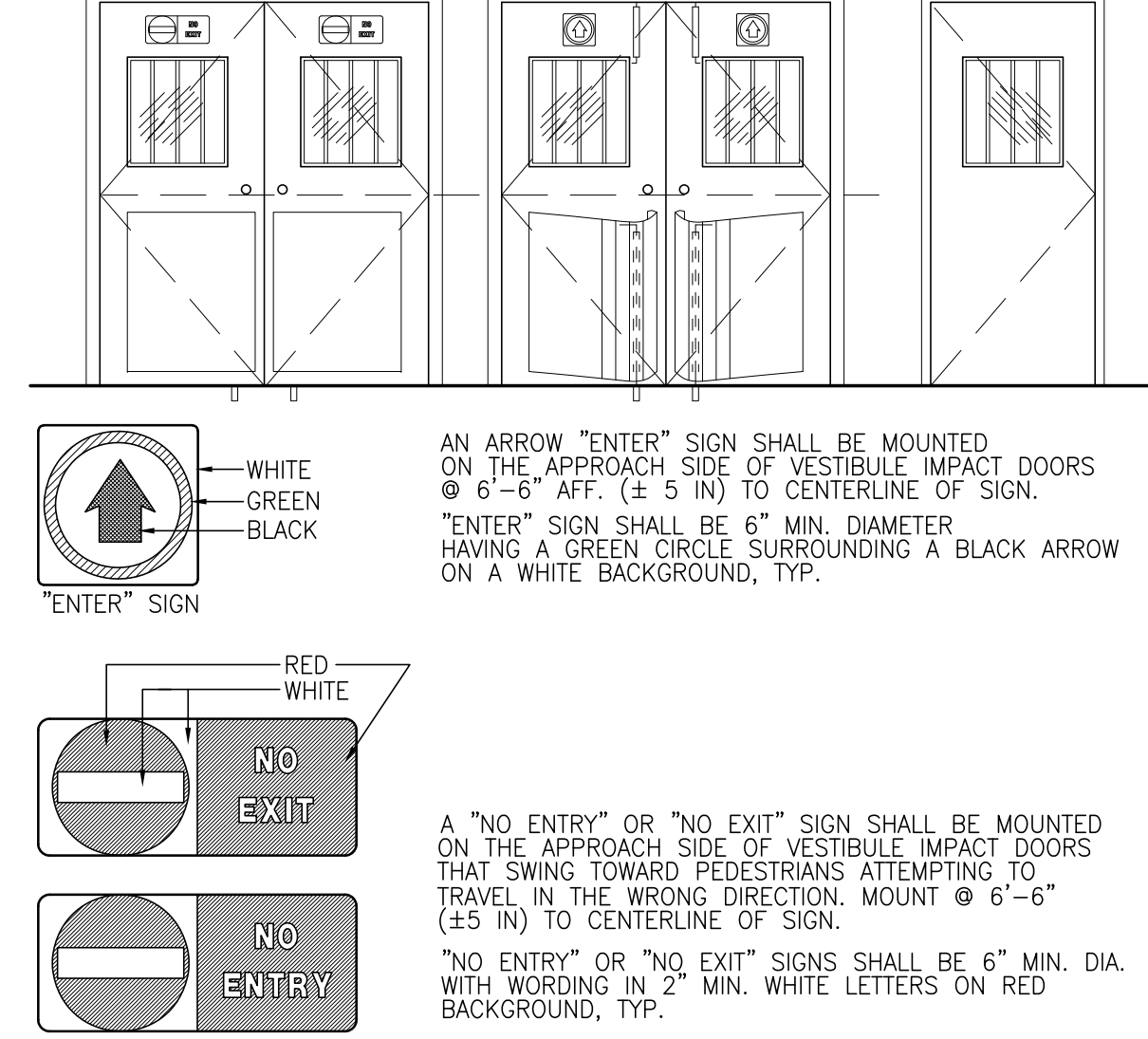
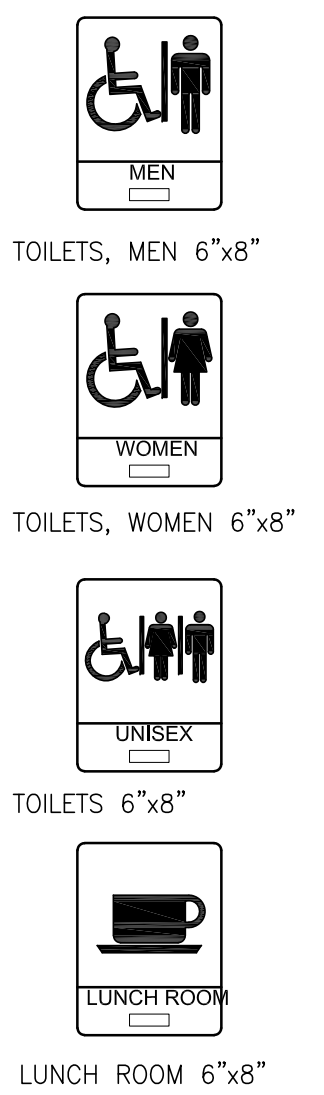
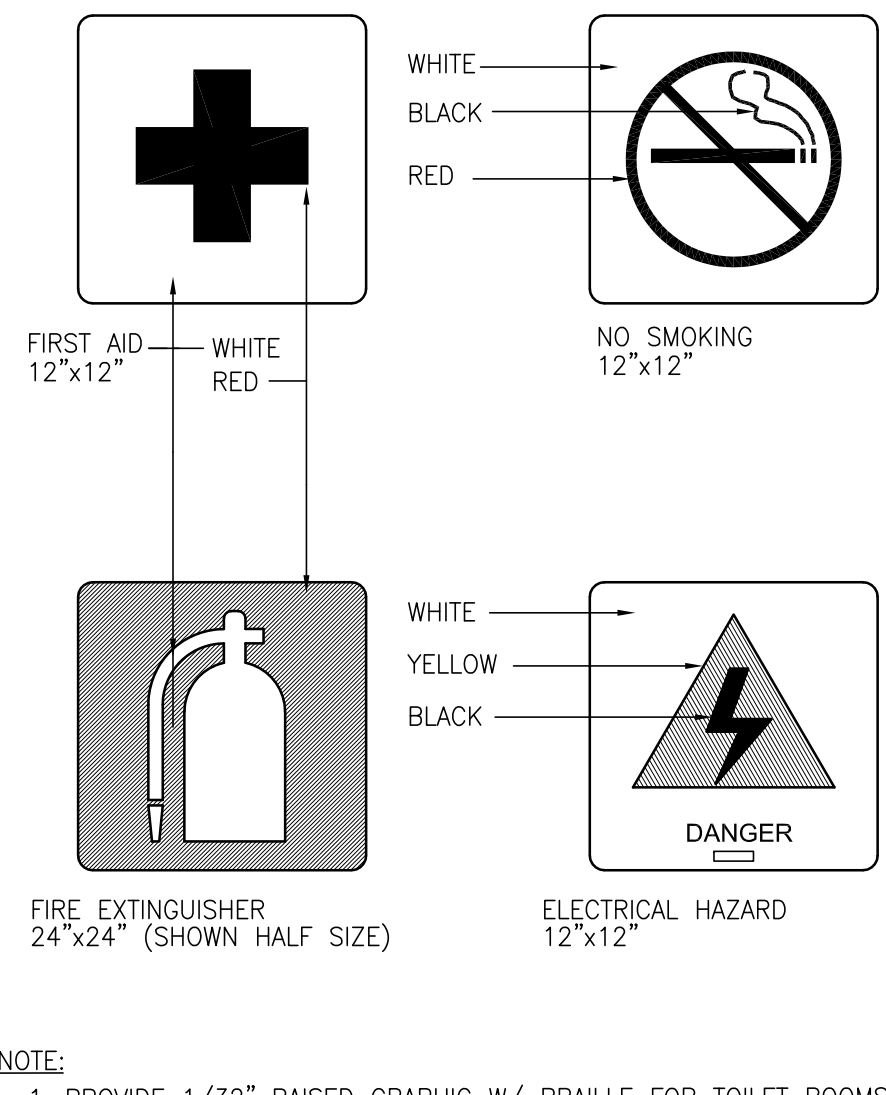
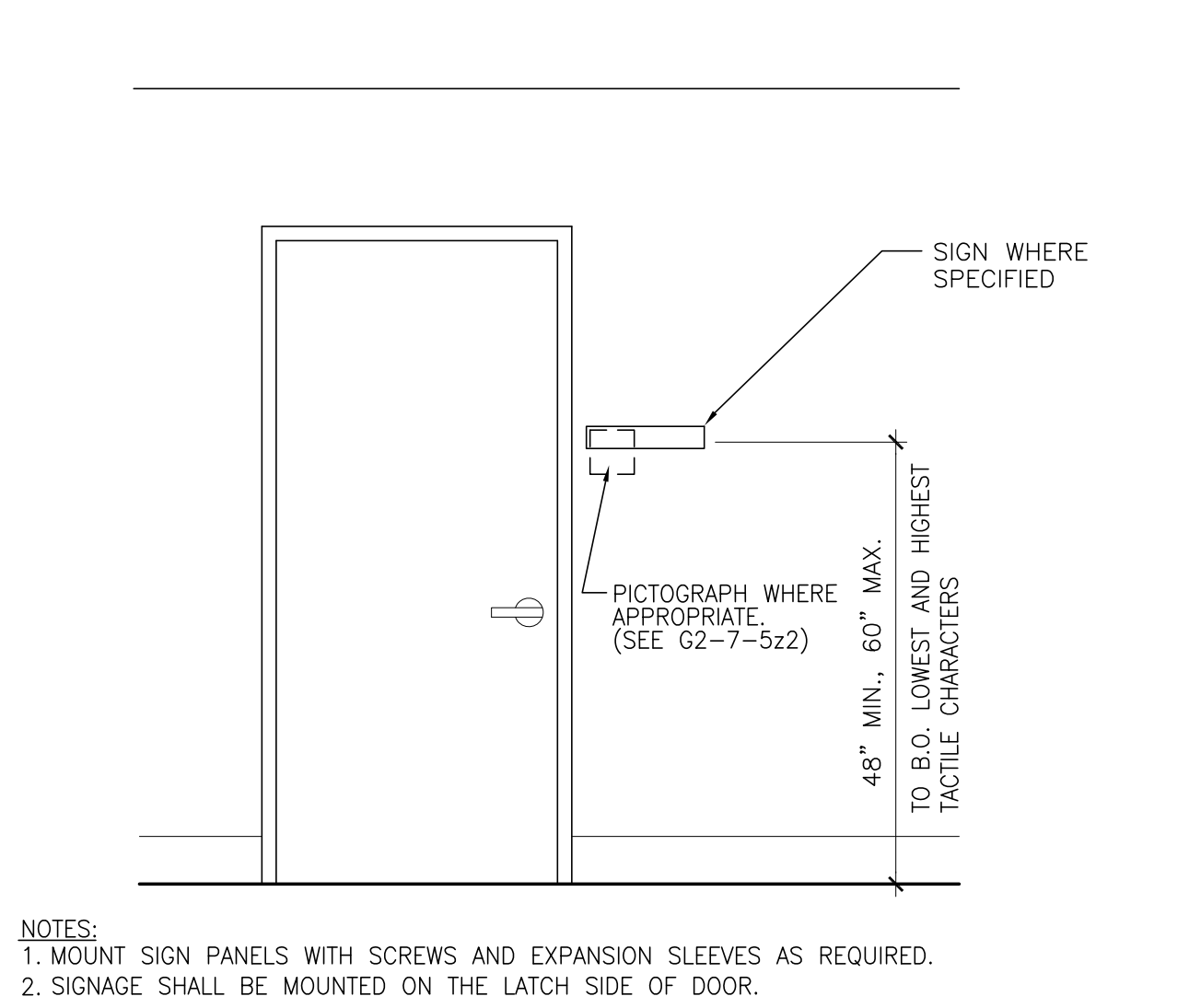
13 Lunchroom/Break Area - Section Through Typ. Sink Base
 G2-4-4 a1
 Scale: 1/2" = 1'-0"
 Date: 10/12/2017
 Last Revised: 6/26/2010



14 Lunchroom/Break Area - Section of Typical Wall Cabinet
 G2-4-4 b
 Scale: 1/2" = 1'-0"
 Date: 10/12/2017
 Last Revised: 3/12/1992



15 NOT USED



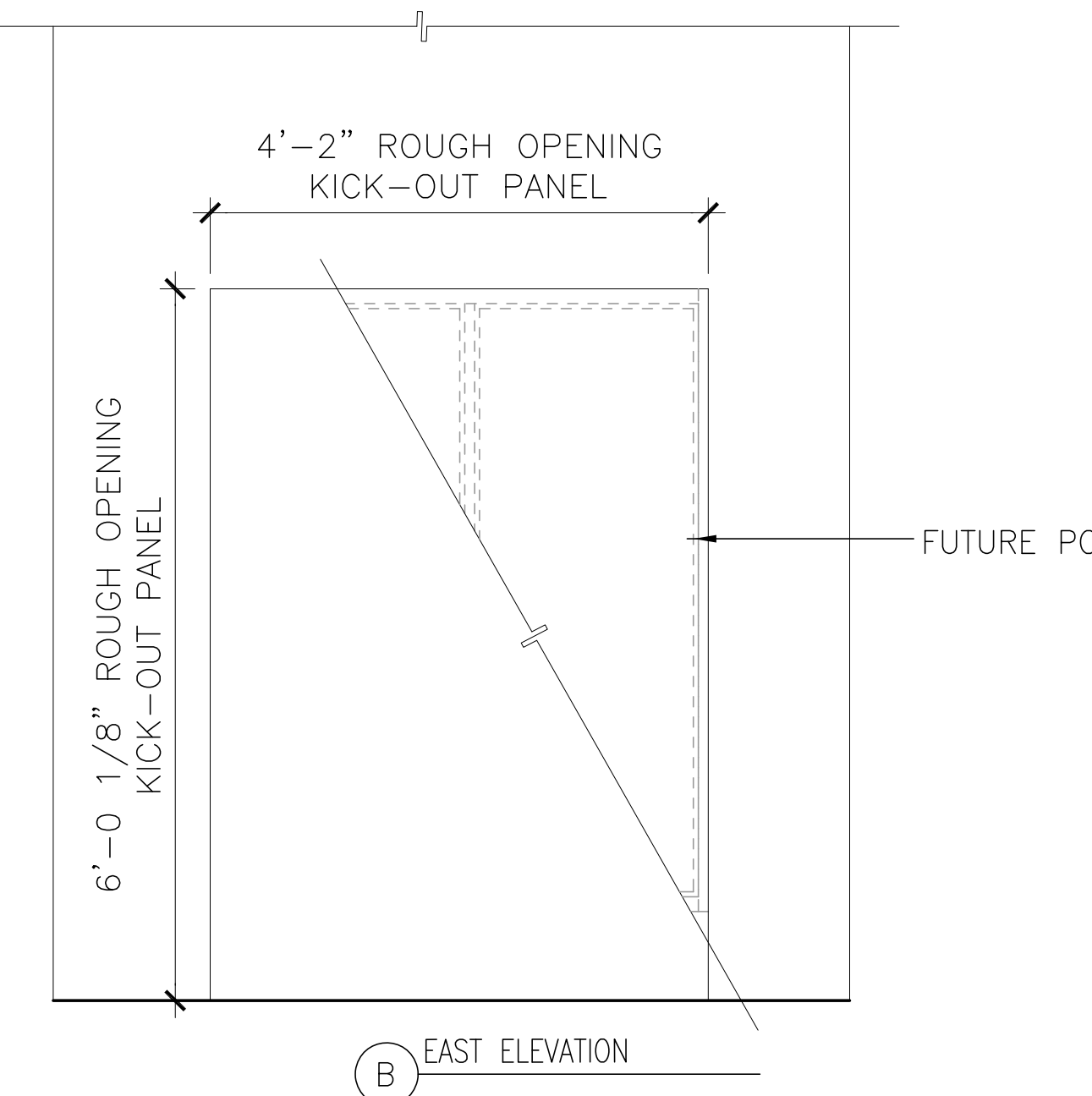
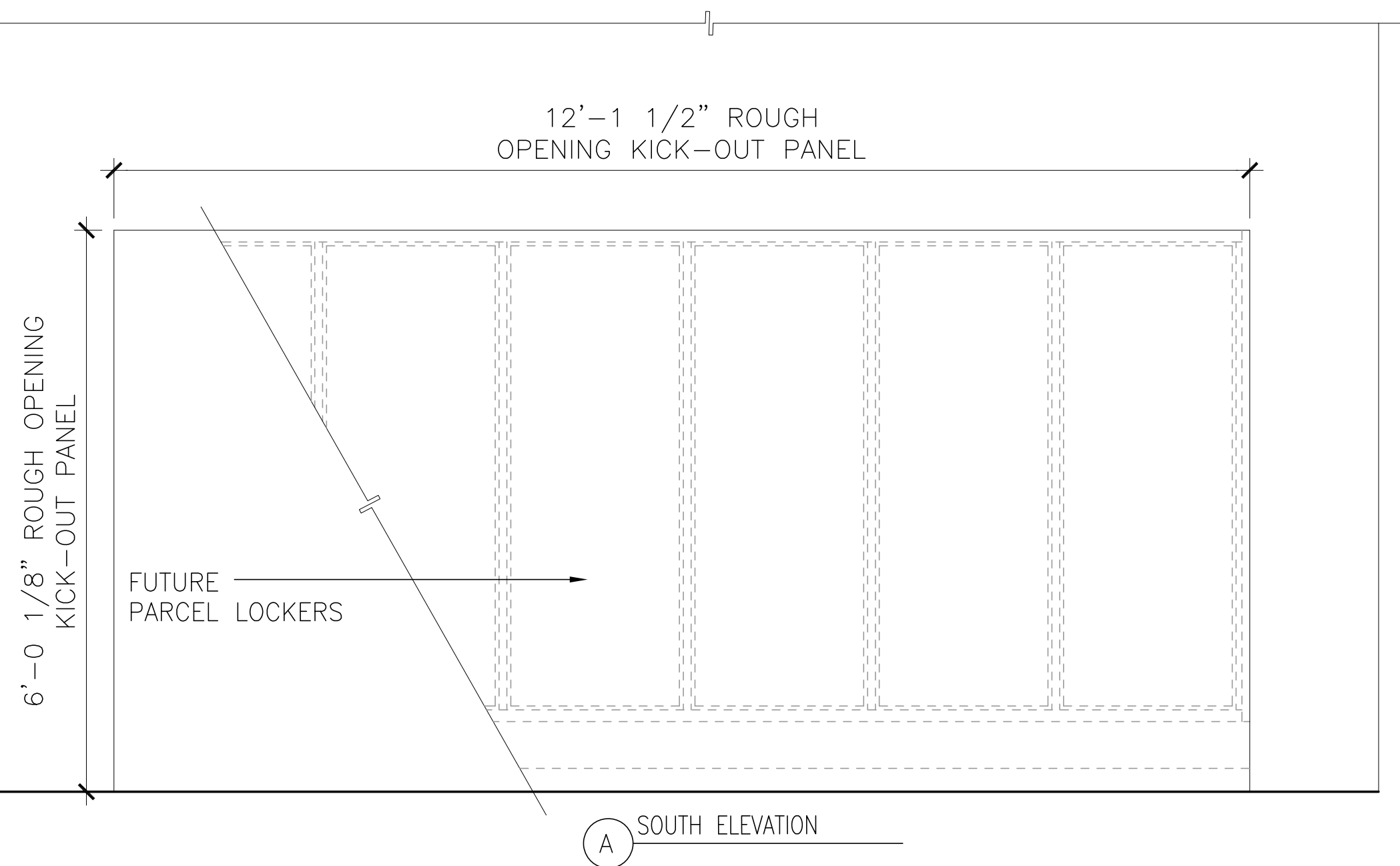
1 BUILDING IDENTIFICATION - ROOM SIGNAGE
Scale: 1/2" = 1'-0"
USPS SOL Issues: 10/11/2017
Last Revised: 3/11/2005

2 BUILDING IDENTIFICATION - ROOM SIGNAGE PICTOGRAPHS
Scale: 1/2" = 1'-0"
USPS SOL Issues: 10/11/2017
Last Revised: 3/11/2005

3 BUILDING IDENTIFICATION - IMPACT DOOR PICTOGRAPHS
Scale: 1/2" = 1'-0"
USPS SOL Issues: 10/11/2017
Last Revised: 3/11/2005

4 PROTECTIVE BARRIERS - DETAIL • PROTECTIVE RAILS
Scale: 3/4" = 1'-0"
USPS SOL Issues: 10/11/2017
Last Revised: 3/11/1997

5 FIRE EXTINGUISHERS - IDENTIFICATION
Scale: 3/16" = 1'-0"
USPS SOL Issues: 10/11/2017
Last Revised: 3/11/2000



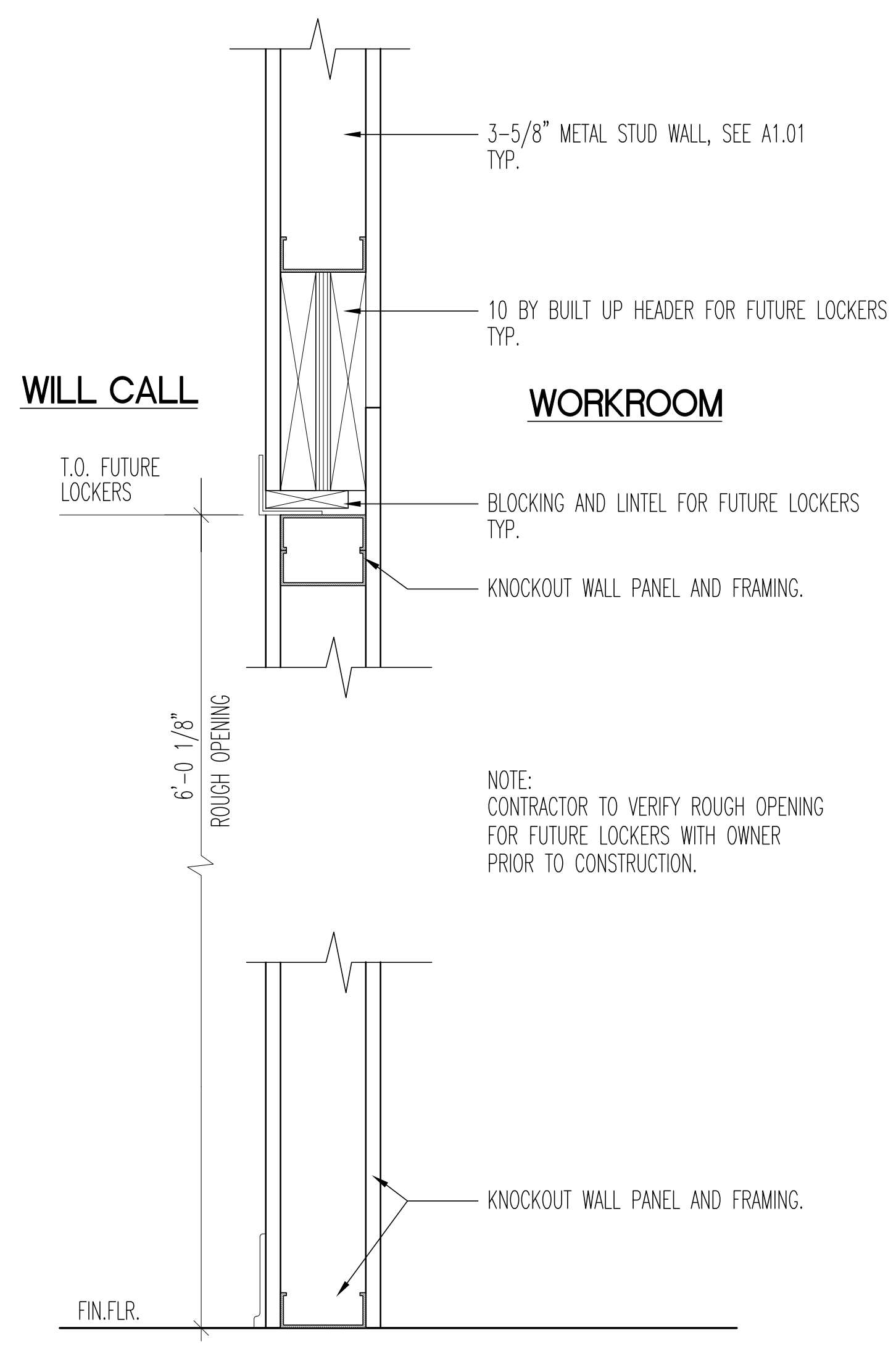
CUT-OUT OPENINGS

SCHEDULE OF CUT-OUT ROUGH OPG.

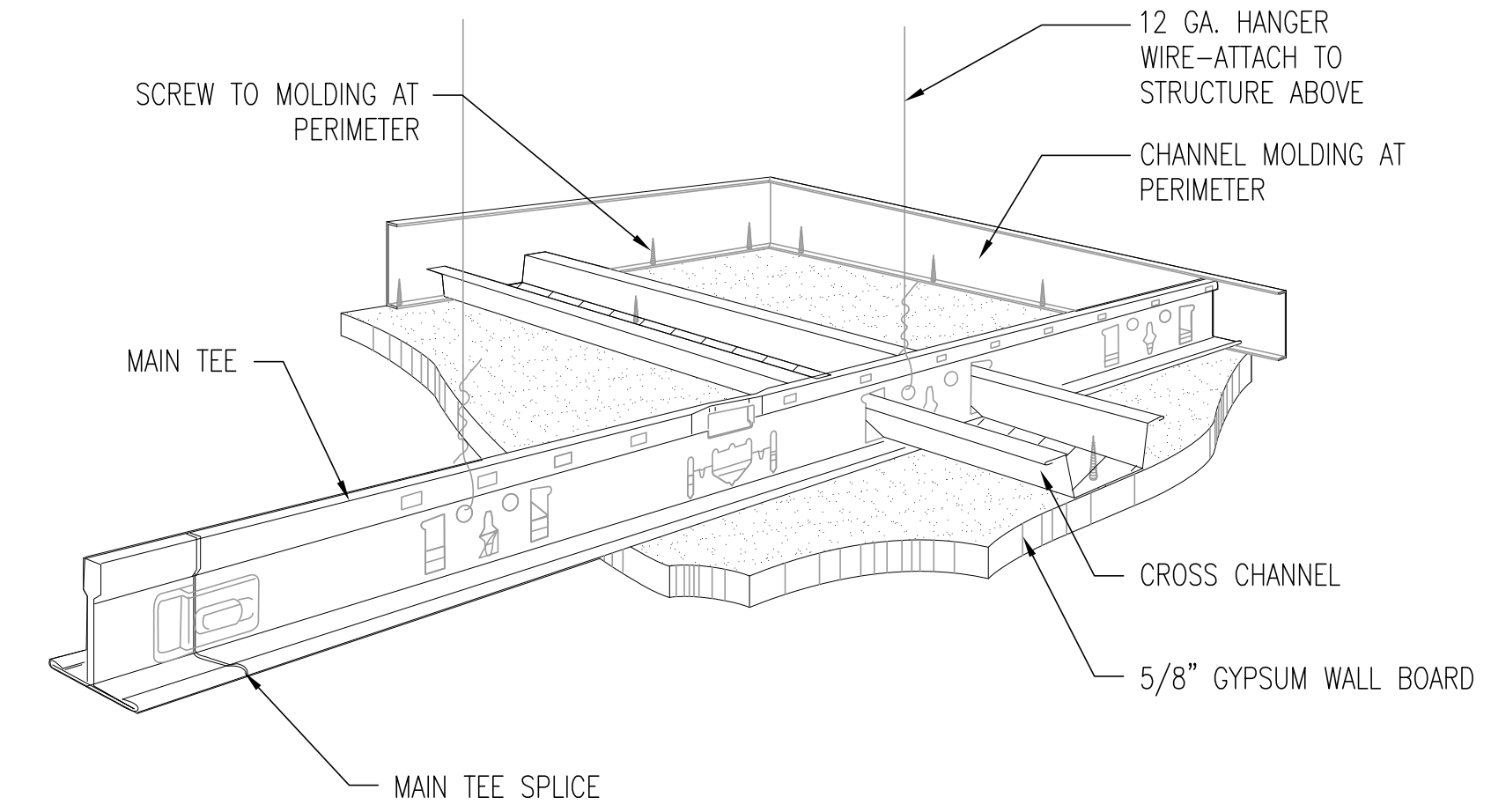
| NO. OF PANELS | WALL LOCATION | ROUGH OPENING SIZE |
|---------------|---------------|--------------------|
| 2 | EAST | 4'-2" |
| 6 | SOUTH | 12'-1 1/2" |

NOTE:
CONTRACTOR TO VERIFY REQUIRED ROUGH OPENING SIZES IN THE FIELD WITH OWNER BEFORE CONSTRUCTION.

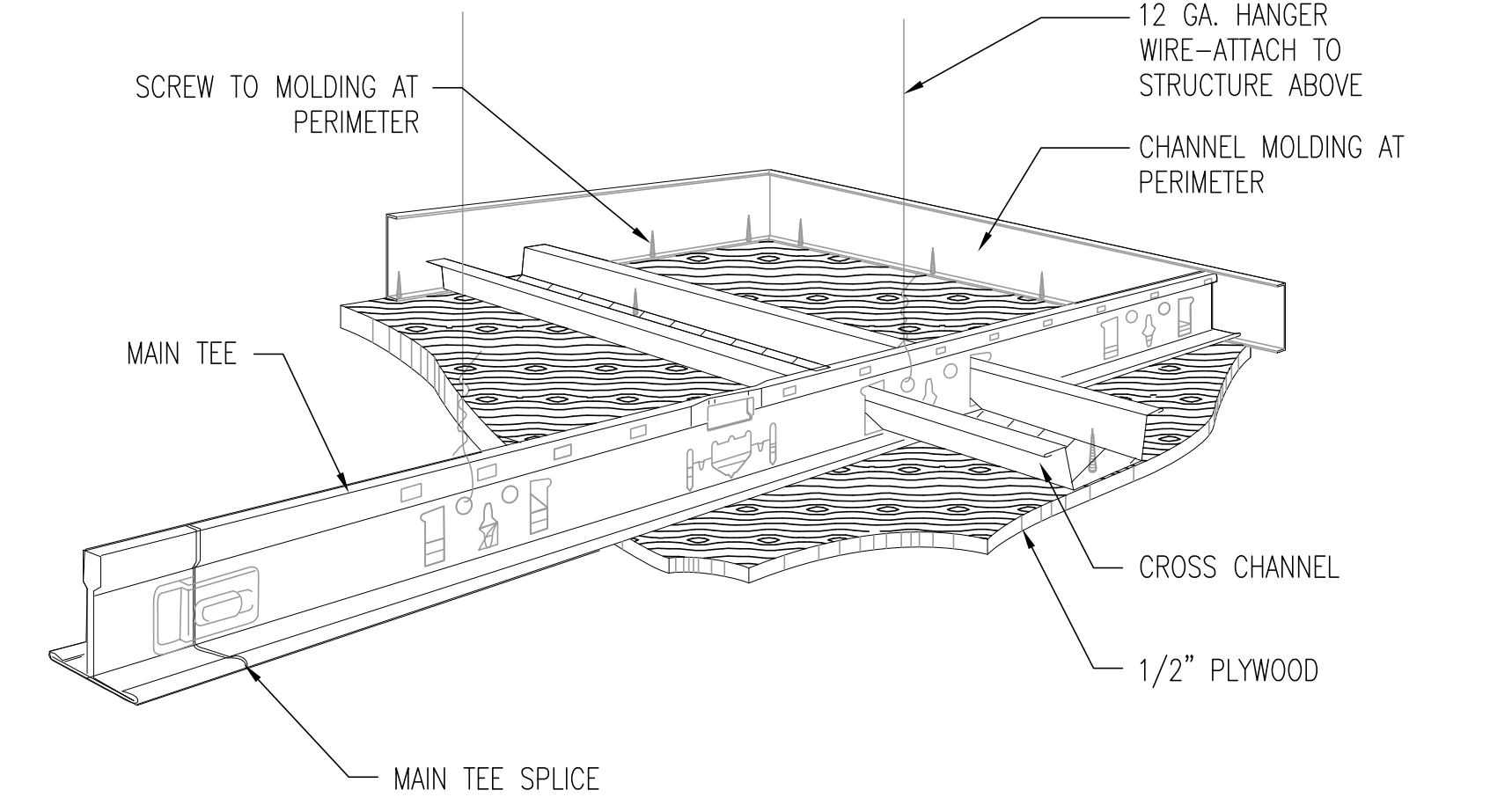
7 PARCEL LOCKER KNOCK-OUT ELEVATIONS
SCALE: N.T.S.



8 PARCEL LOCKER KNOCK-OUT WALL
SCALE: N.T.S.



6 SUSPENDED GYPSUM BOARD DETAIL
SCALE: N.T.S.

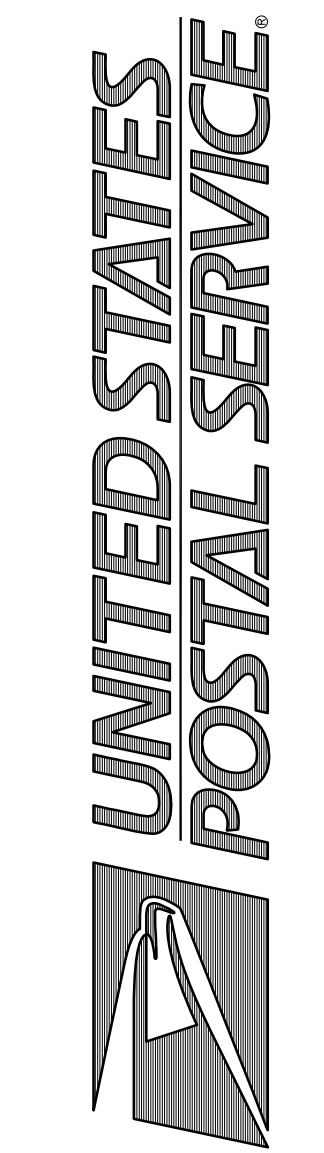


9 SUSPENDED PLYWOOD CEILING DETAIL
SCALE: N.T.S.



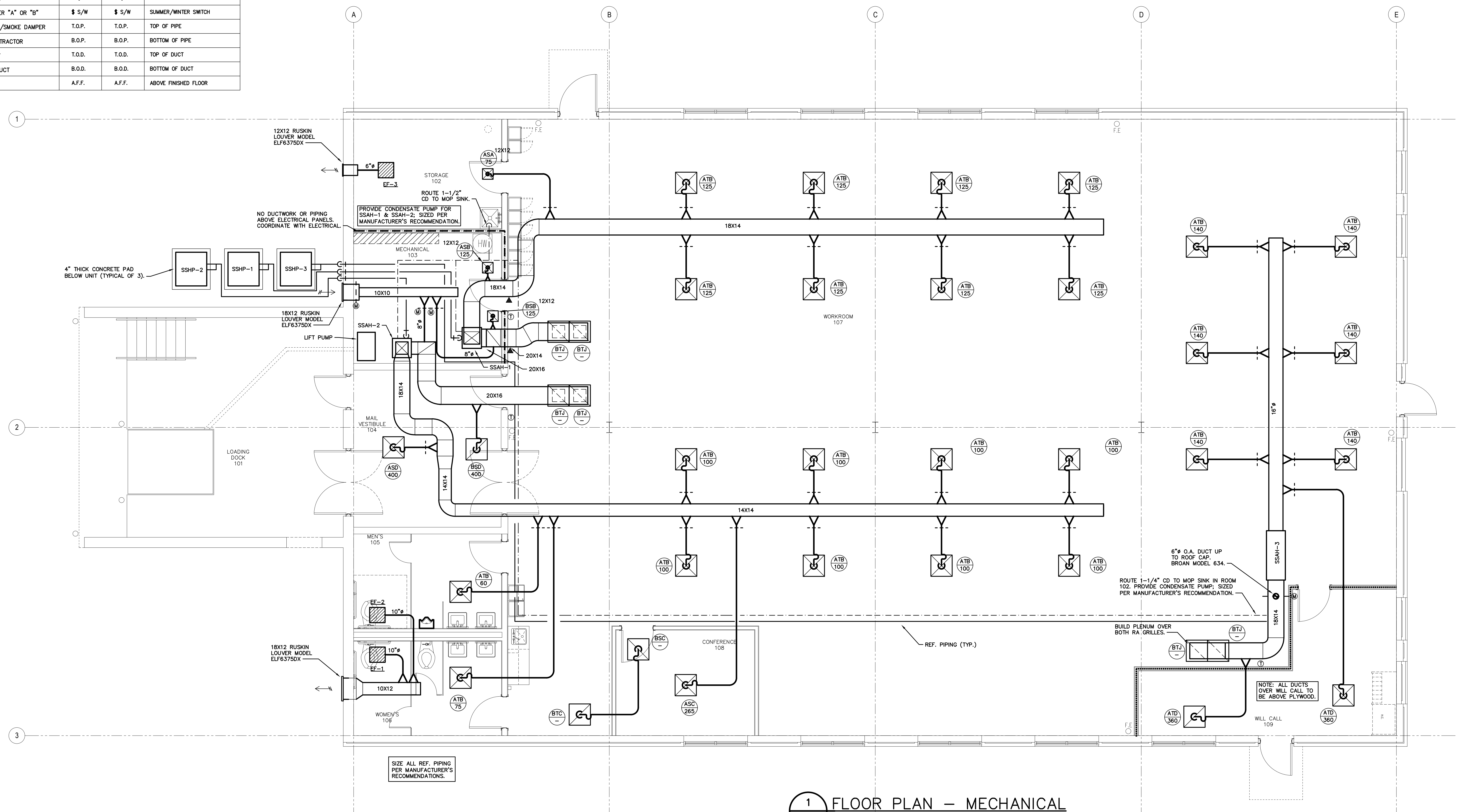
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INTERIOR UPFIT
USPS SPOUT SPRINGS NC CAX
XXXXXXXXXX
XXXXXXXXXX

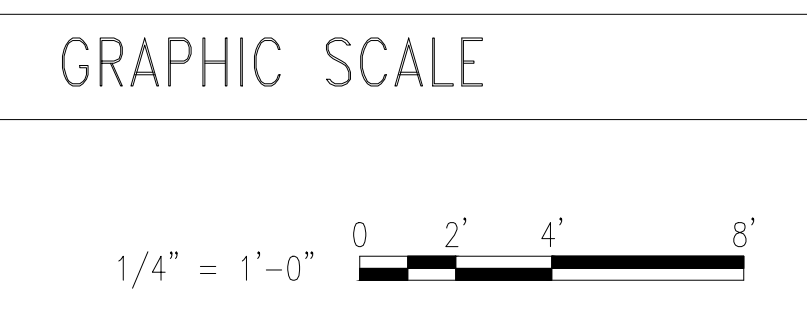


A7.3 Architectural Miscellaneous Details
Scale: As Indicated Date: 5/17/2018
Project: SPOUT SPRINGS INTERIOR UPFIT
USPS File Number: XXXXXX
USPS Project Number: 097932

| MECHANICAL EQUIPMENT LEGEND | | | |
|--|-----------------------------------|----------------------|-------------------------------|
| SYMBOL | | SYMBOL | |
| SINGLE LINE | DOUBLE LINE | SINGLE LINE | DOUBLE LINE |
| LOW OR MEDIUM PRESSURE DUCTWORK | | | |
| | 10 X 12 | | DUCT TAKE-OFF: CONICAL |
| | SQUARE TO ROUND TRANS. | | DUCT TAKE-OFF: RECTANGULAR |
| | FLEX DUCTWORK | | TEE: LONG RADIUS |
| | ELBOW W/TURNING VANES | | TEE: W/TURNING VANES |
| | LONG RADIUS ELBOW | MISCELLANEOUS | |
| | EXHAUST DUCT SECTION | | THERMOSTAT |
| | SUPPLY DUCT SECTION | | HUMIDISTAT |
| | OUTSIDE AIR DUCT SECTION | | TEMPERATURE SENSOR |
| | RETURN/RELIEF AIR DUCT SECTION | | CARBON DIOXIDE SENSOR |
| | TRANSFER AIR DUCT SECTION | | COMBINATION FIRE/SMOKE DAMPER |
| | SHORT RADIUS VANED ELBOW | | FIRE DAMPER |
| LOW PRESSURE DUCTWORK | | | |
| | DUCT TAKE-OFF: CONICAL | | SMOKE DAMPER |
| | DUCT TAKE-OFF: RECTANGULAR | | SMOKE DETECTOR |
| | TEE: LONG RADIUS | | CONDENSATE DRAIN |
| | TEE: W/TURNING VANES | | BACKDRAFT DAMPER |
| | **Y TAKE-OFF WITH SPLITTER DAMPER | | MOTOR OPERATED DAMPER |
| | 2-SIDED DUCT | | DAMPER |
| | FIRE DAMPER "A" OR "B" | | MANUAL SWITCH |
| | \$\$\$ S/W | | SUMMER/WINTER SWITCH |
| | T.O.P. | | TOP OF PIPE |
| | B.O.P. | | BOTTOM OF PIPE |
| | T.O.D. | | TOP OF DUCT |
| | B.O.D. | | BOTTOM OF DUCT |
| | A.F.F. | | ABOVE FINISHED FLOOR |



1 FLOOR PLAN - MECHANICAL
M1.1 SCALE: 1/4" = 1'-0"



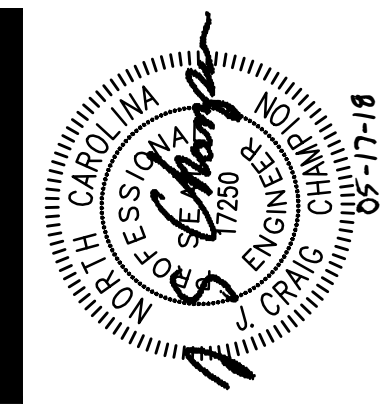
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 INTERIOR UPFIT
 USPS SPOUT SPRINGS NC-CAX
 XXXXXXXXX
 XXXXXXXXX
 XXXXXXXXX

M1.1 Mechanical Plan
 Scale: As Indicated Date: 5/17/2018
 Project: SPOUT SPRINGS INTERIOR UPFIT
 TSSS File Number: XXXXXX
 USPS Project Number: 037932

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INTERIOR UFFIT
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XXXXXXXXXX
XXXXXXXXXX

UNITED STATES
POSTAL SERVICE
Columbia, MD 21045-0701
Columbia, MD 21045-0701
Little Patuxent Parkway, Second Floor, Columbia, MD 21045-0701

M2.1 Mechanical Schedules
Scale: As Indicated Date: 5/17/2018
Project: SPOUT SPRINGS INTERIOR UFFIT
USPS File Number: XXXXX
USPS Project Number: 027932

SPLIT SYSTEM COOLING UNIT SCHEDULE-R410a (W ELECTRIC HEATER)

| Unit Tag SSAH-XX/SSAC-XX (INDOOR/OUTDOOR) | Area Served | Nom. Tons | SEER (EER) | CFM | O.A. | ESP | Electric Heating Coil | | | | | Air Handling Unit | | | | DX Coil Performance | | Electrical Data (Outdoor Unit) | | | | | | Remarks | | | | | | | | | |
|---|-------------|--------------|---------------|------|------|-----|-----------------------|------|-----------------|-----|-----|-------------------|-------|-----|------|--------------------------|-------|--------------------------------|--------------|--------------|------|-----|------------|---------|-------|-------|-----|------|--------------------------|-------|-----|------------|----------|
| | | | | | | | MBH Max | kW | Volts/ Phase | EAT | LAT | Fan Motor | | MCA | MOCP | Approx. Weight (lbs.) | Model | EAT | MBH Total | MBH Sens. | Fan | | Compressor | | Volts | Phase | MCA | MOCP | Approx. Weight (lbs.) | Model | | | |
| | | | | | | | | | | | | HP | Phase | | | | | | | | No. | FLA | No. | | | | | | | | RLA | RLA | |
| SSAH-1/SSHP-1 | SEE PLANS | 3 | 15 | 1200 | 170 | 0.8 | 32.6 | 7.2 | 208/3 | 55 | 95 | 1/2 | 208 | 1 | 30 | 30 | 150 | TEM6A0C36H31 | 80/67 | 35.2 | 25.9 | 1 | 0.8 | 1 | 70 | 9.9 | 208 | 3 | 13.0 | 20 | 250 | 4TWA4036A3 | 1-5, 7-9 |
| SSAH-2/SSHP-2 | SEE PLANS | 4 | 15 | 1600 | 175 | 0.8 | 42.5 | 10.8 | 208/3 | 55 | 95 | 3/4 | 208 | 1 | 45 | 45 | 200 | TEM6A0C48H41 | 80/67 | 48.3 | 33.7 | 1 | 1.1 | 1 | 82.1 | 13.7 | 208 | 3 | 18.0 | 30 | 315 | 4TWA4048A3 | 1-5, 7-9 |
| SSAH-3/SSHP-3 | SEE PLANS | 3 | 15 | 1200 | 115 | 0.8 | 32.6 | 7.2 | 208/3 | 55 | 95 | 1/2 | 208 | 1 | 30 | 30 | 150 | TEM6A0C36H31 | 80/67 | 35.2 | 25.9 | 1 | 0.8 | 1 | 70 | 9.0 | 208 | 3 | 13.0 | 20 | 250 | 4TWA4036A3 | 1-6, 9 |

- MODEL NUMBERS BASED ON TRANE. EQUALS BY CARRIER AND YORK.
- CONTRACTOR SHALL VERIFY SERVICE CLEARANCES FOR ALL SUBSTITUTIONS.
- REFRIGERANT LINES AND ACCESSORIES PER UNIT MFG. RECOMMENDATIONS.
- PROVIDE OVERFLOW DRAIN PAN BELOW UNIT WITH MICROSWITCH TO SHUT OFF UNIT PRIOR TO PAN OVERFLOW.
- MFG. SUPPLIED WALL MOUNTED T-STAT.
- AIR HANDLER HAS HORIZONTAL CONFIGURATION.
- AIR HANDLER HAS VERTICAL CONFIGURATION.
- UNIT ON ANGLE IRON STAND.
- PROVIDE CONDENSATE PUMP PER MFG. RECOMMENDATIONS.

FAN SCHEDULE

| Unit Tag | Area Served | CFM | ESP (IN.) | Fan RPM | Sones | Drive | Amps | Volts | Phase | Type | Model | Detail | Remarks |
|----------|-------------|-----|-----------|---------|-------|--------|------|-------|-------|---------|------------|--------|---------|
| EF-1 | SEE PLANS | 150 | 0.3 | 890 | 2.8 | DIRECT | 3.4 | 115 | 1 | CEILING | SP-A510-VG | 6/M-1 | 1,2,4 |
| EF-2 | SEE PLANS | 150 | 0.3 | 890 | 2.8 | DIRECT | 3.4 | 115 | 1 | CEILING | SP-A510-VG | 6/M-1 | 1,2,4 |
| EF-3 | SEE PLANS | 100 | 0.3 | 940 | 0.5 | DIRECT | 0.2 | 115 | 1 | CEILING | SP-110-VG | 6/M-1 | 1,2,3 |

- MODEL NUMBERS BASED ON GREENHECK. EQUALS BY CARNES, COOK.
- DISCONNECT BY MFG.
- FAN CONTROLLED BY WALL SWITCH. CONNECTION BY E.C. SWITCH BY M.C.
- FAN CONTROLLED BY LIGHT SWITCH. CONNECTION AND SWITCH BY E.C.

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT METHOD OF COMPLIANCE

Prescriptive Energy Cost Budget

Thermal Zone: 4A

Exterior Design Conditions
 Winter Dry Bulb: 22
 Summer Dry Bulb: 94

Interior Design Conditions
 Winter Dry Bulb: 65
 Summer Dry Bulb: 78
 Relative Humidity: 55%

Building Heating Load: 60.8 MBH
 Building Cooling Load: 8.2 Tons

Mechanical Space Conditioning System

Unitary:
 Description of Unit: Split System Heat Pumps
 Heating Efficiency: Refer to HVAC Equipment Schedules
 Cooling Efficiency: Refer to HVAC Equipment Schedules
 Heat Output of Unit: Refer to HVAC Equipment Schedules
 Cooling Output of Unit: Refer to HVAC Equipment Schedules

List Equipment Efficiencies: Refer to HVAC Equipment Schedules

Equipment Schedules with Motors (Mechanical Systems)
 Motor Horsepower: Comply w/ 2012 NCECC
 Number of Phases: Comply w/ 2012 NCECC
 Minimum Efficiency: Comply w/ 2012 NCECC
 Motor Type: Comply w/ 2012 NCECC
 Number of Poles: Comply w/ 2012 NCECC

Designer Statement:
 To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipment requirements of the 2012 NC Energy Conservation Code. Section 506 is met by subsection 506.2.2: Reduced Lighting Power Density.

GRILLE & DIFFUSER SCHEDULE

| SYM | TYPE | USE | CFM RANGE | NECK SIZE | OVER-ALL SIZE | FINISH | FRAME | PRICE MODEL NO | REMARKS |
|-----|-------------|-----------------|-------------------|-----------|---------------|-----------|-----------|----------------|----------------|
| A-- | LOUVER FACE | SUPPLY 4-WAY | SEE PLANS & RMK 5 | RMK 5 | RMK 4 | OFF WHITE | RMK 3 | SMDA | 1-6 |
| B-- | PERF. | RETURN/ EXHAUST | SEE PLANS & RMK 7 | RMK 7 | RMK 4 | OFF WHITE | RMK 3 | PDDR | 1-4, 7-10 |
| C- | SIDEWALL | SUPPLY | SEE PLANS | RMK 4 | RMK 12 | SEE PLANS | SEE PLANS | 520D | 1-4, 9, 11-13 |
| D- | SIDEWALL | RETURN/ EXHAUST | SEE PLANS | SEE PLANS | RMK 4 | SEE PLANS | SEE PLANS | 530 | 1-4, 9, 12, 13 |

REMARKS

- EQUALS: METALARE, TITUS, KRUEGER, TUTTLE & BAILEY, NAIL-OR, CARNES. SCHEDULE IS GENERAL, SOME MAY NOT BE USED. PAINT ALL INSIDE VISIBLE SURFACES FLAT BLACK.
- SYMBOL EXPLANATION:
 XXXCFM = SYMBOL, FRAME (RMK 3), NECK (RMK 5,7) CFM
 T = T-BAR
 S = FLUSH SURF. MITD. E = DUCT MOUNTED; V-BEVELED PLASTER FRAME FOR DROP SURF. (TYPE "A" DIFFUSER)
 CEILING MOUNTING. D = DROPPED FRAME
 NOTE: VERIFY FRAME/CEILING COMPATIBILITY.
- OVERALL SIZE: LAY-IN = 2'x2', OTHER GRILLES = NECK + 2" +/-.
- LOUVER FACE SUPPLY NECK SIZES

| NO. | ROUND NK SIZE | CFM | NO. | SQUARE NK SIZE | CFM |
|-----|---------------|-----|-----|----------------|------|
| A | 6" | 100 | H | 6x6 | 125 |
| B | 8" | 175 | I | 9x9 | 280 |
| C | 10" | 275 | J | 12x12 | 500 |
| D | 12" | 400 | K | 15x15 | 780 |
| E | 14" | 535 | L | 18x18 | 1125 |
| F | 16" | 700 | M | 21x21 | 1530 |
| G | 18" | 885 | N | 24x24 | 2000 |

NOTE: VERIFY CFM / NECK SIZE.

- ADJUSTABLE: HORIZONTAL/VERTICAL - "PIANO HINGE" DEVICE.
- "H" & "E" EXH/RETURN NECK SIZES ("E" = SQ. NK. ONLY)

| NO. | ROUND NK SIZE | CFM | NO. | SQUARE NK SIZE | CFM |
|-----|---------------|-----|-----|----------------|------|
| A | 6" | 100 | G | 8x8 | 220 |
| B | 8" | 175 | H | 10x10 | 345 |
| C | 10" | 275 | I | 12x12 | 500 |
| D | 12" | 400 | J | 14x14 | 680 |
| E | 14" | 535 | K | 16x16 | 885 |
| F | 16" | 700 | L | 18x18 | 1125 |

NOTE: VERIFY CFM / NECK SIZE.

| NO. | ROUND NK SIZE | CFM | NO. | SQUARE NK SIZE | CFM |
|-----|---------------|-----|-----|----------------|------|
| M | 16" | 700 | M | 22x22 | 1680 |
| N | 18" | 885 | N | 22x46 | 2600 |

NOTE: VERIFY CFM / NECK SIZE.



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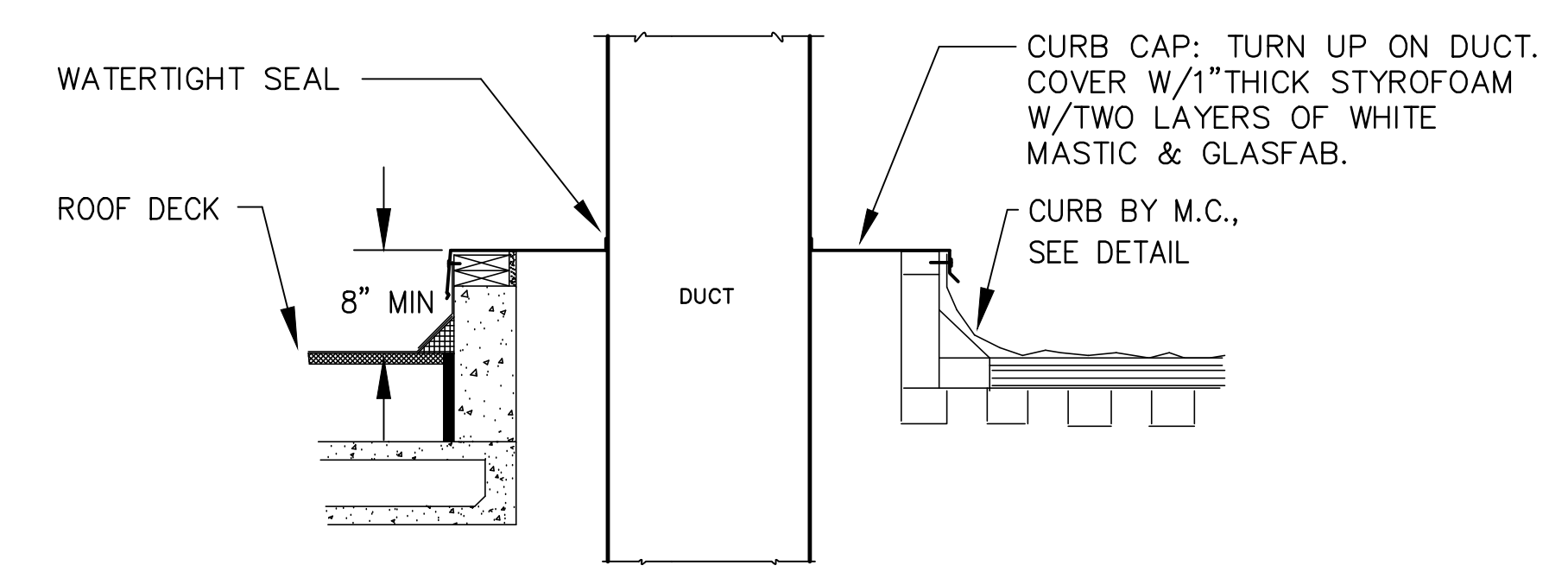
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PO Box 541, New Bern, NC 28563
252.636.8778 (PHONE)
252.636.8992 (FAX)
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INTERIOR UPFIT
USPS SPOUT SPRINGS NC CAX
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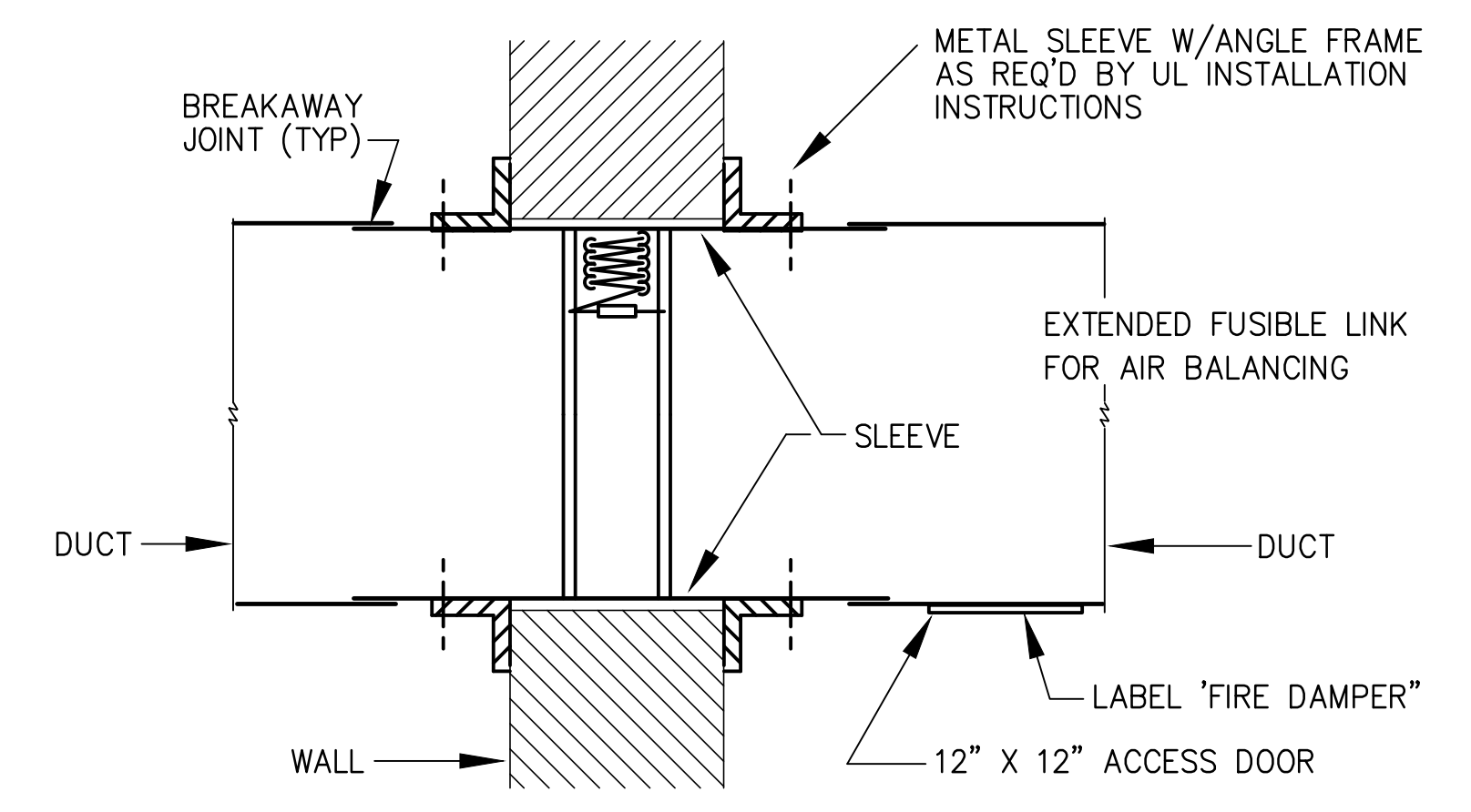
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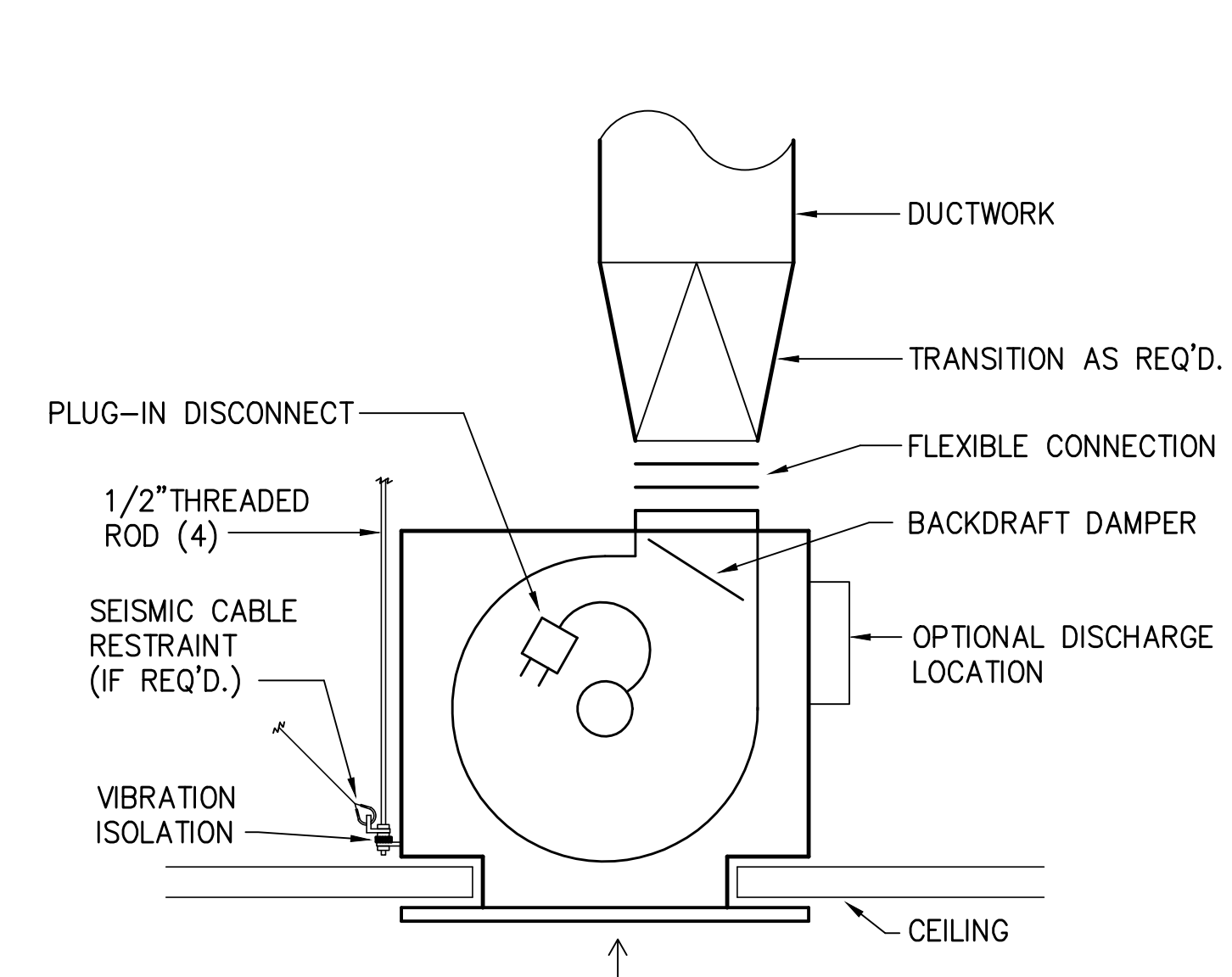
M3.1 Mechanical Details
Scale: As Indicated Date: 5/17/2018
Project: SPOUT SPRINGS INTERIOR UPFIT
USPS File Number: XXXXXX
USPS Project Number: 037932



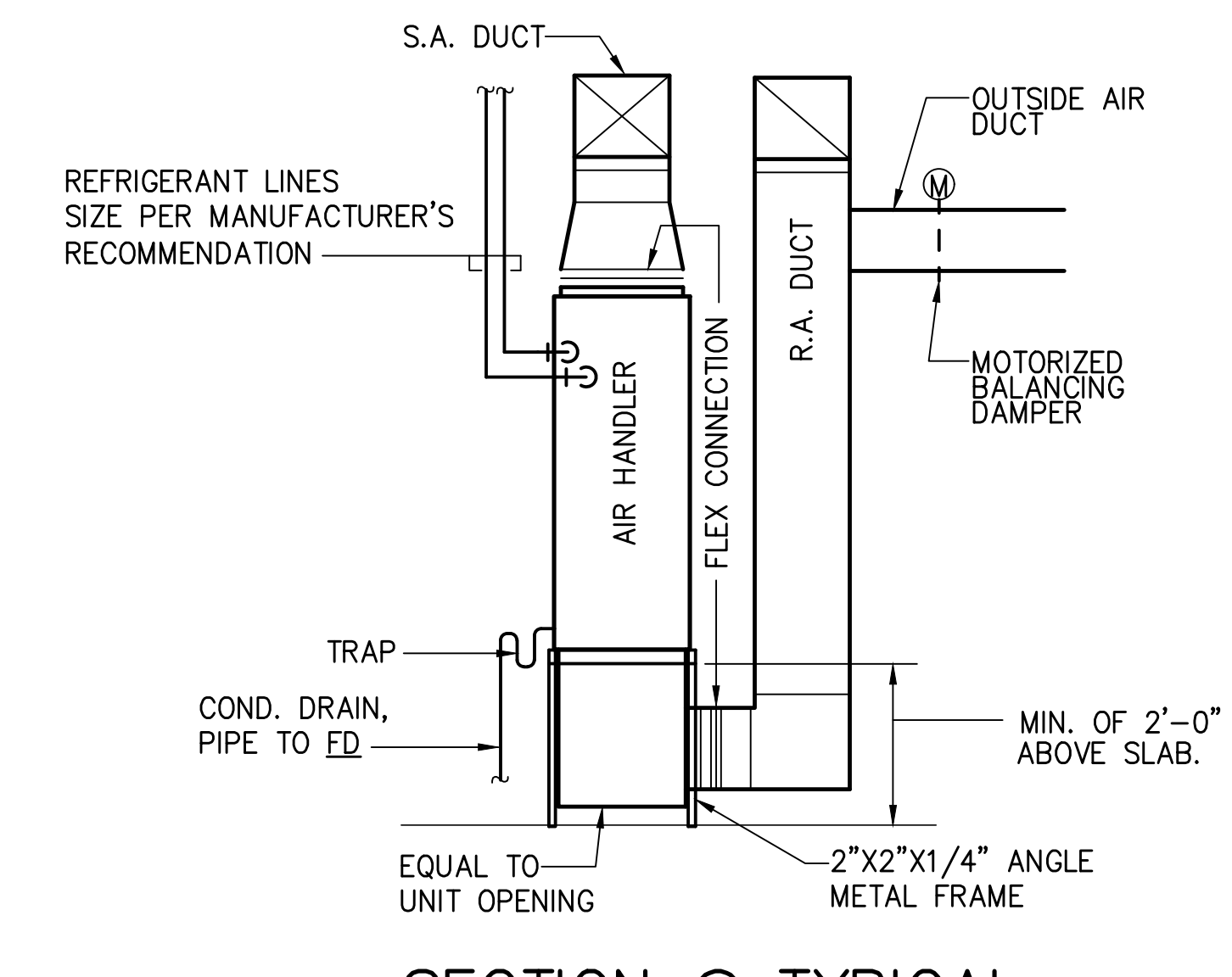
11 DUCT THROUGH ROOF DETAIL
M3.1 NTS
NOTE: M.C. & G.C. TO COORDINATE SIZE & LOCATION OF ROOF OPENING.



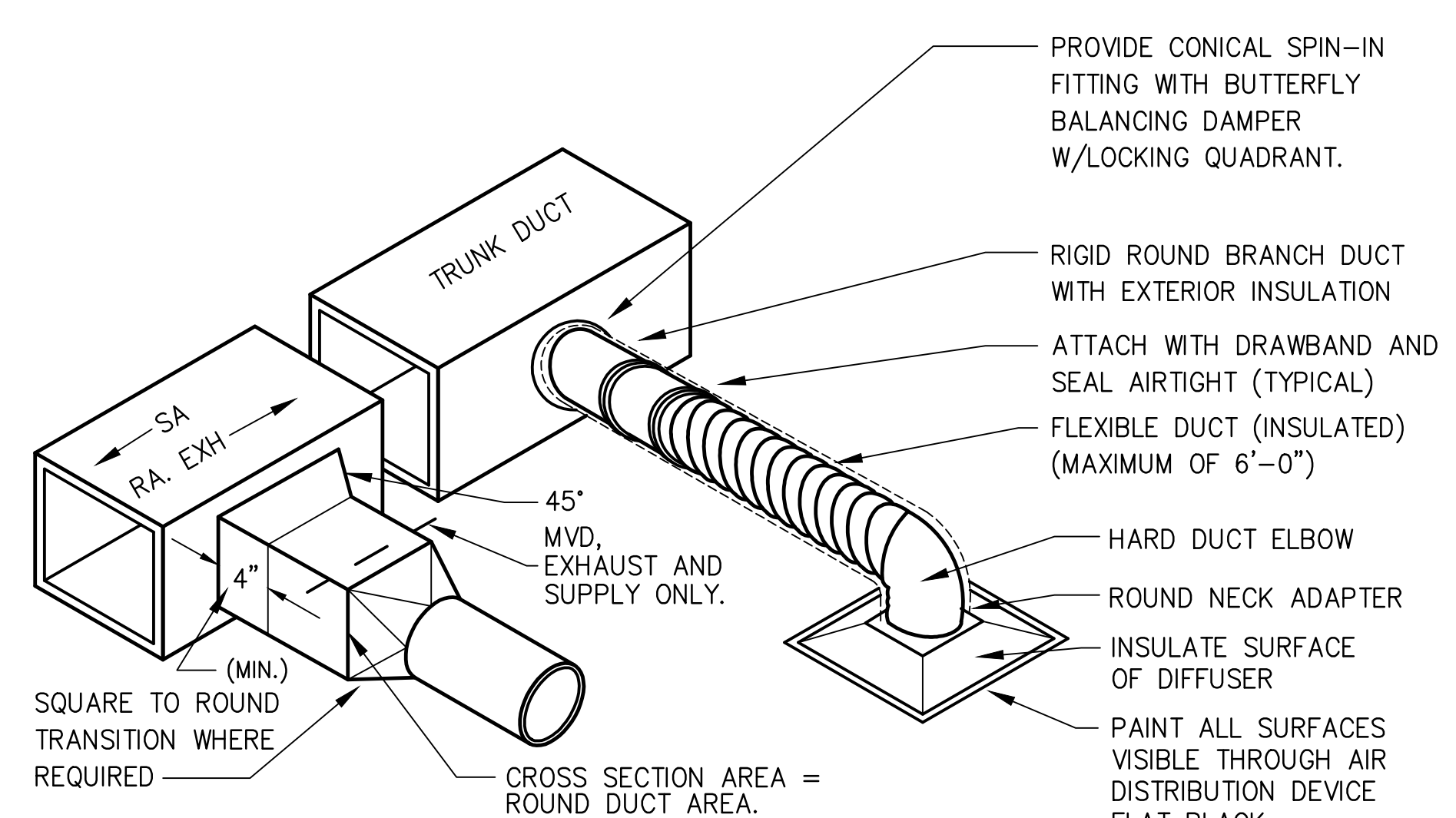
10 FIRE DAMPER DETAIL (IN AIR STREAM) TYPE "A"
M3.1 NTS
NOTES: 1. FD"A" IS USED FOR LOW PRESSURE DUCT PENETRATIONS THRU FIRE-RATED WALLS (SEE SPECS FOR "LOW PRESSURE DUCT" DEFINITION). 2. FIRE-RATED WALLS ARE SHOWN ON PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE NUMBER AND SIZE OF ALL DUCT PENETRATIONS THRU FIRE-RATED WALLS. 3. PLAN SYMBOL = . 4. THIS TYPICAL FIRE DAMPER DETAIL IS GENERIC GUIDANCE ONLY. INSTALL FIRE DAMPER IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION DETAILS. DO NOT VARY FROM THOSE INSTRUCTIONS IN ANY WAY. DO NOT FIRE STOP THE GAP BETWEEN THE FIRE DAMPER SLEEVE AND THE PENETRATION UNLESS SPECIFICALLY REQUIRED BY THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.



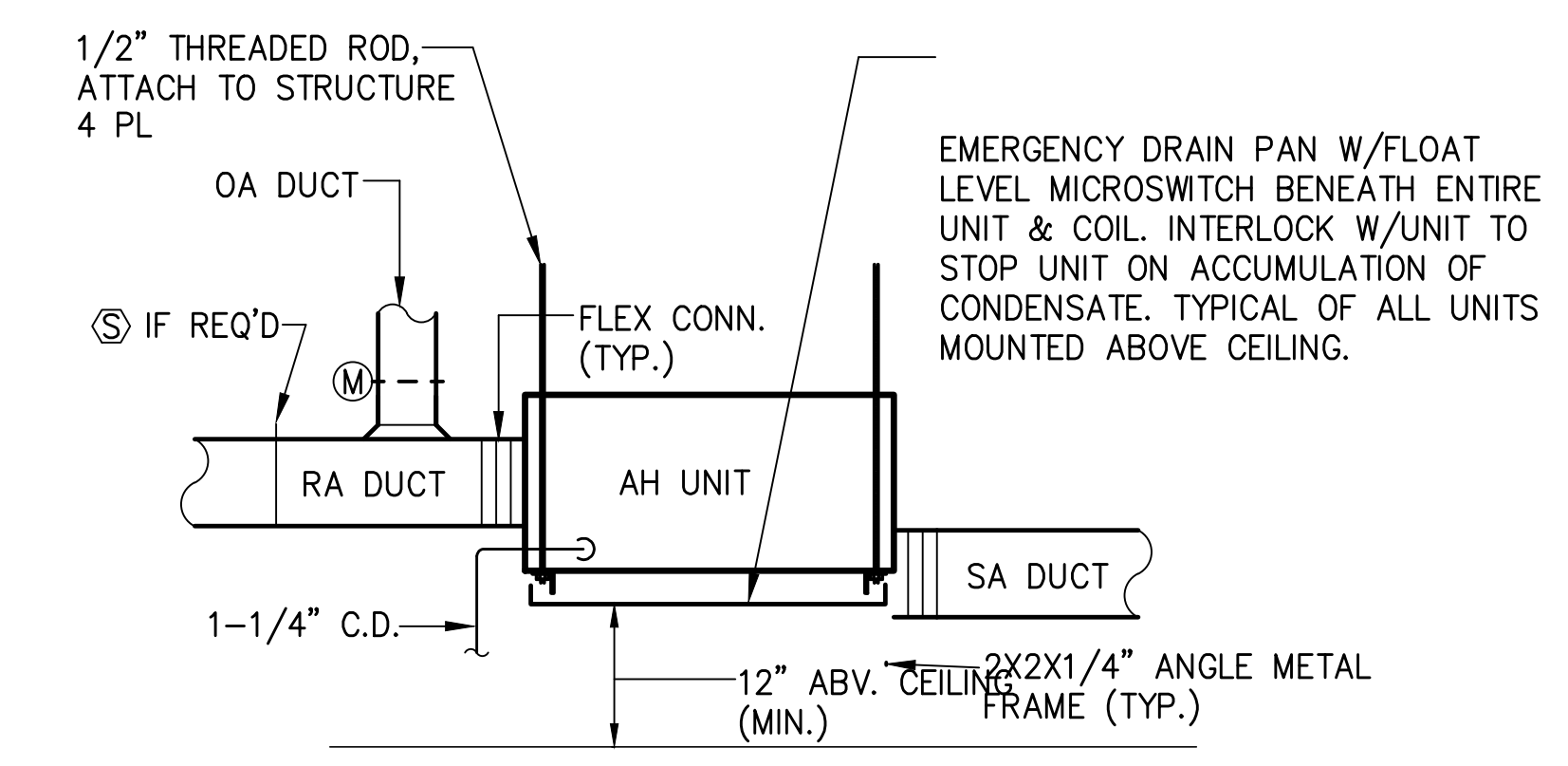
9 CEILING EXHAUST FAN DETAIL
M3.1 NTS



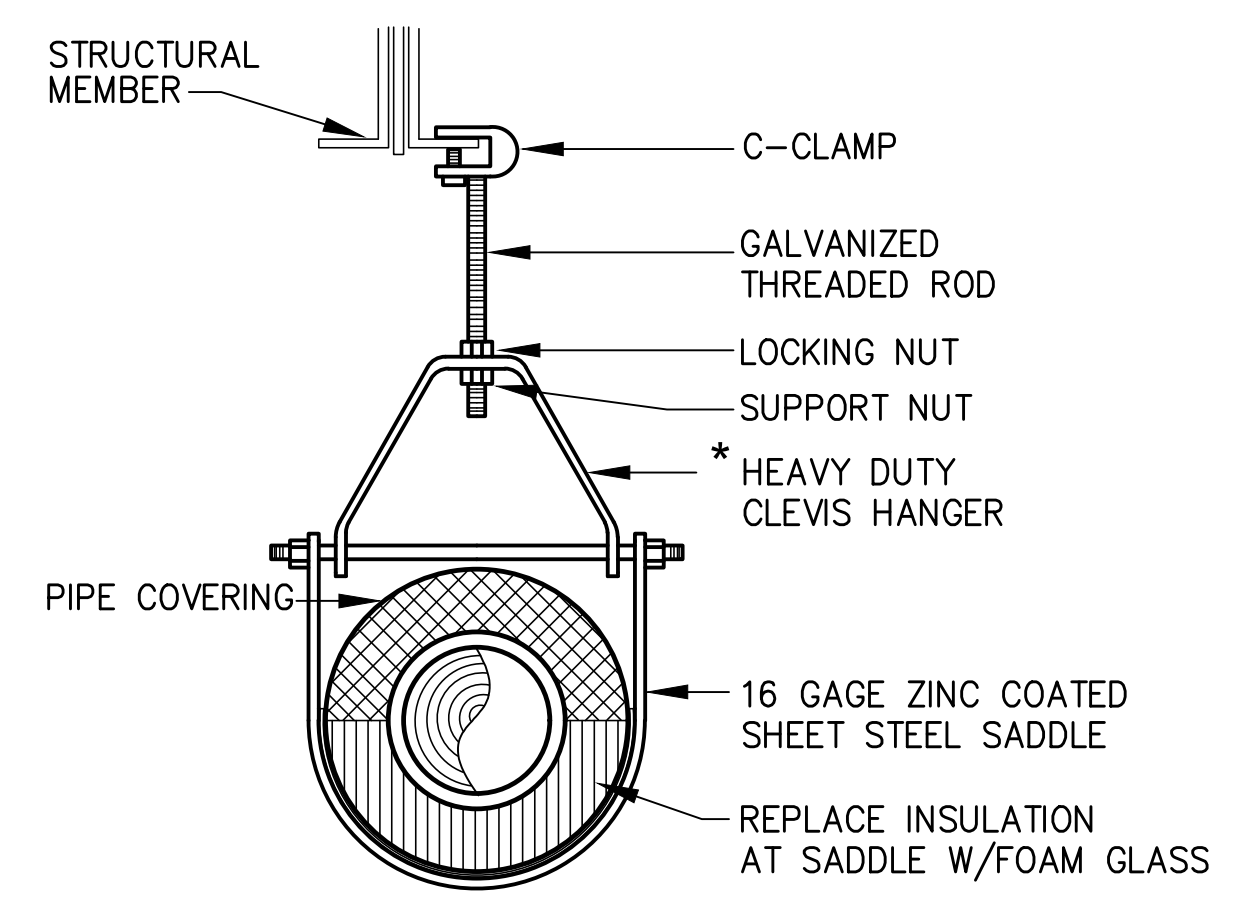
8 SECTION @ TYPICAL AIR HANDLING UNIT
M3.1 NTS



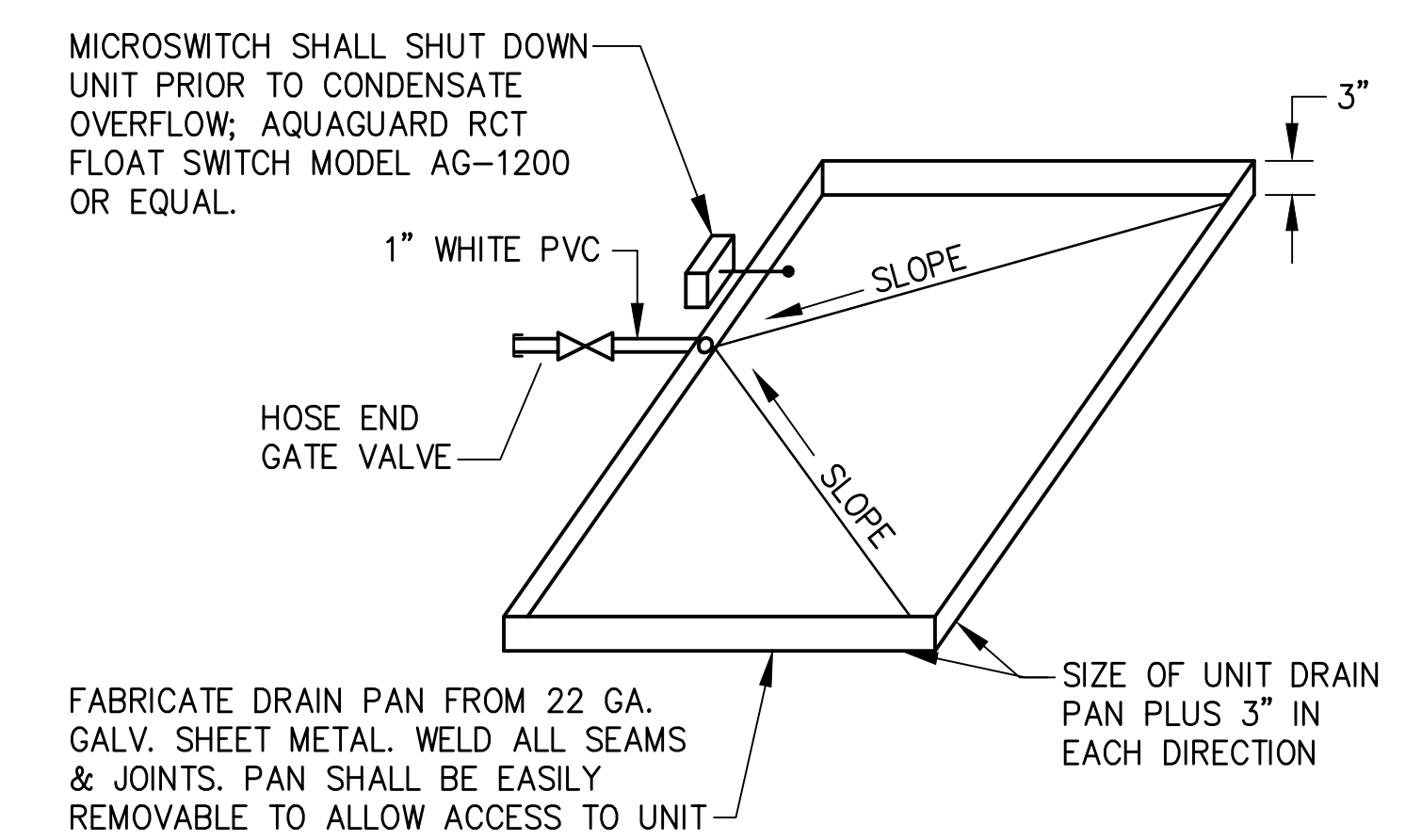
7 DUCT TAKE-OFF DETAIL
M3.1 NTS



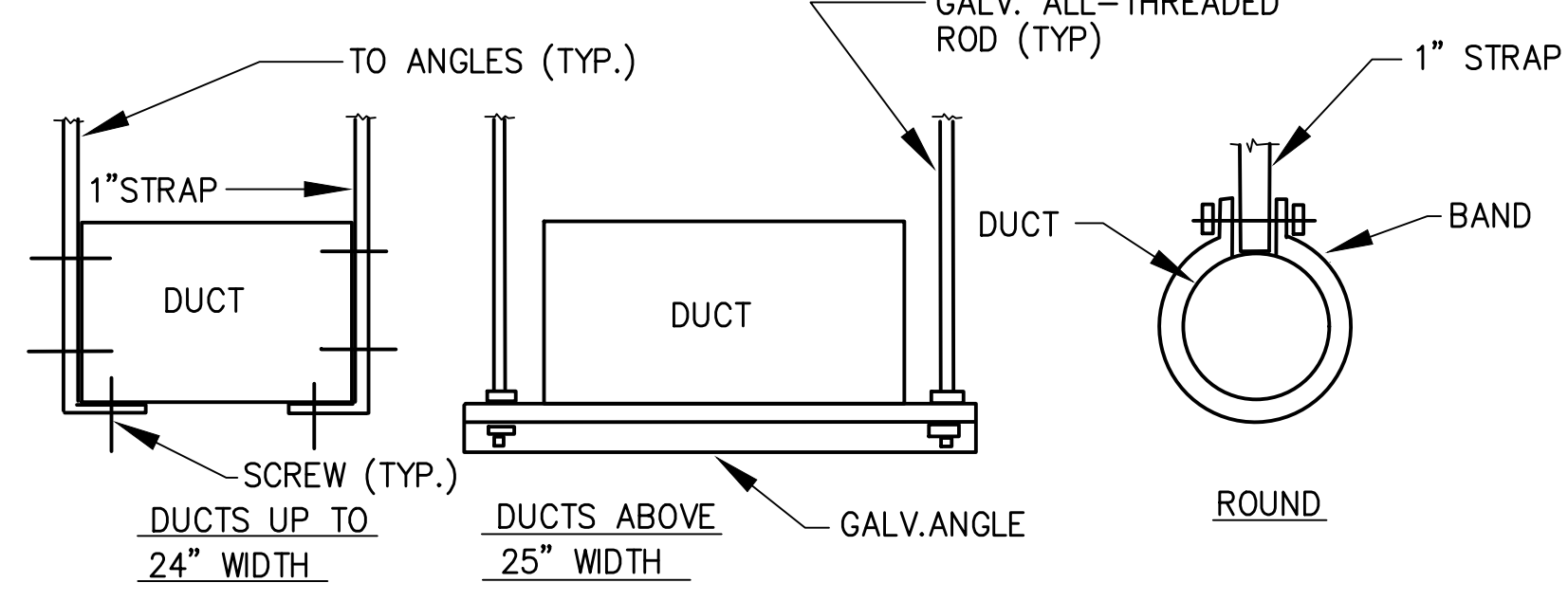
6 SECTION AT AHU
M3.1 NTS



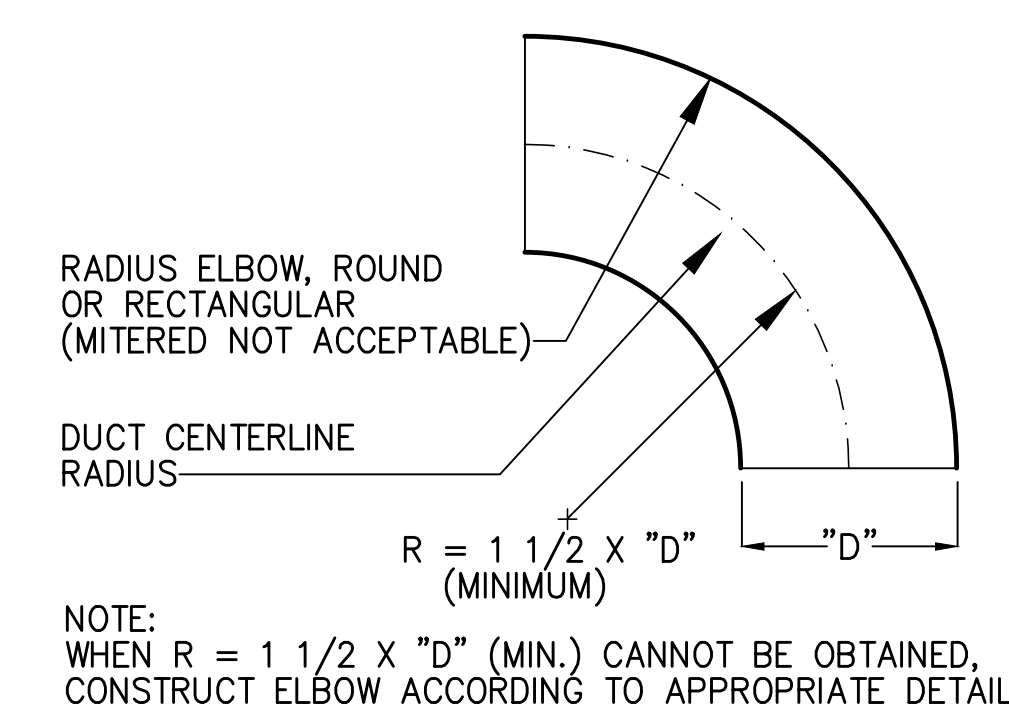
5 PIPE HANGER DETAIL
M3.1 NTS
CONTRACTOR OPTION: MICHIGAN HANGER #403



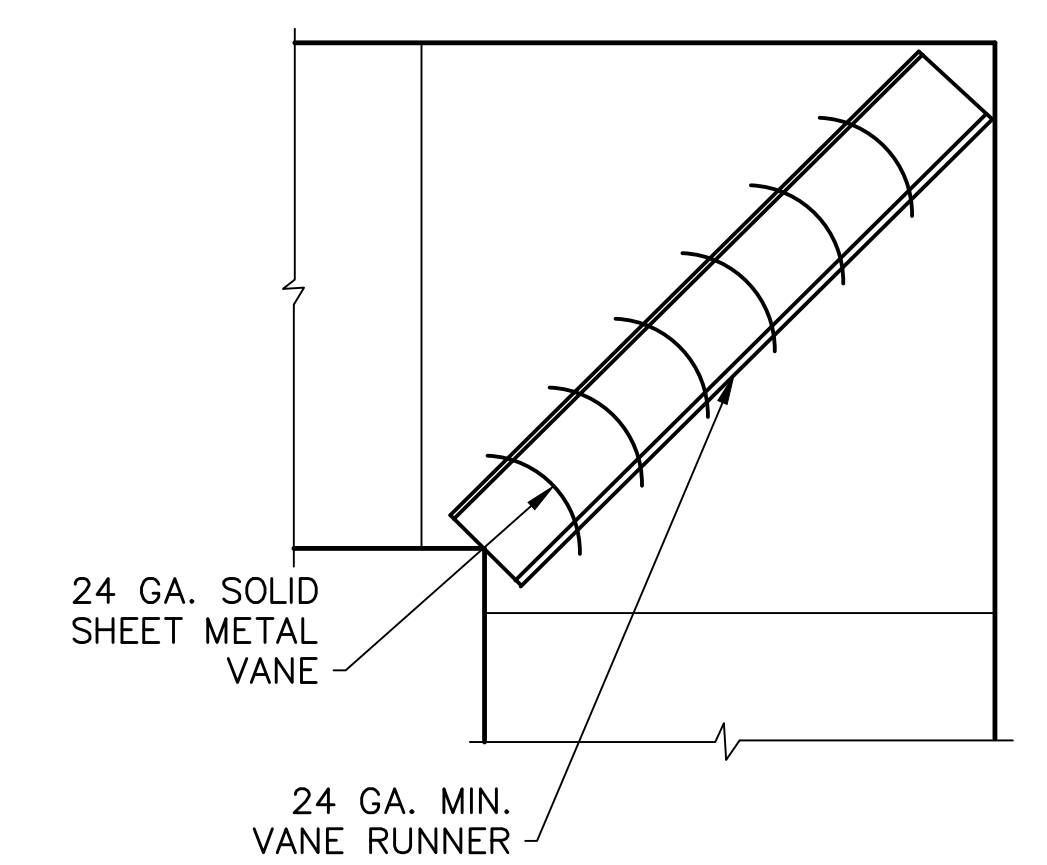
4 AUXILIARY DRAIN PAN DETAIL
M3.1 NTS



3 DUCTWORK HANGER DETAILS
M3.1 NTS



2 RADIUS ELBOW DETAIL
M3.1 NTS
NOTE: WHEN R = 1 1/2 X "D" (MIN.) CANNOT BE OBTAINED, CONSTRUCT ELBOW ACCORDING TO APPROPRIATE DETAIL.



1 TURNING VANE DETAIL
M3.1 NTS
PERMITTED ONLY WHERE RADIUS ELL WILL NOT FIT.

USPS GENERAL SPECIFICATIONS

(1) Scope

- (a) This specification covers work done by the HVAC Contractor. It is the contractor's responsibility to determine which portion is applicable to his trade.
(b) The Contractor shall coordinate the work and equipment of this Division with the work and equipment specified elsewhere in order to assure a complete and satisfactory installation.
(c) It is the intention of these specifications and drawings to call for finished work, tested and ready for operation.
(d) Minor details not usually shown or specified, but necessary for the proper installation and operation, shall be included in the work, the same as in herein specified or shown.
(e) This Contractor is referred to the General Conditions Of The Contract For Construction.
(f) Some items of equipment are specified in the singular; however, the Contractor shall provide and install the number of items of equipment as indicated on the drawings, and as required for complete systems.

(2) Contractor's Qualifications

- (a) It is assumed that the Contractor has had sufficient general knowledge and experience to anticipate the needs of a construction of this nature.
(b) Contractor is responsible for familiarizing himself with the details of the construction of the building.
(c) The Contractor shall follow drawings in laying out work, check drawings of other trades to verify spaces in which work will be installed and maintain maximum headroom and space conditions at all points.

(3) Duties of Contractor

- (a) Contractor shall furnish and install all materials called for in these specifications and accompanying drawings, and must furnish the apparatus complete in every respect.
(b) Contractor is responsible for familiarizing himself with the details of the construction of the building.
(c) The Contractor shall follow drawings in laying out work, check drawings of other trades to verify spaces in which work will be installed and maintain maximum headroom and space conditions at all points.
(d) The plans are diagrammatic and are not intended to show each and every fitting or a complete detail of all the work to be done; but are for the purpose of illustrating the type of system, showing duct sizes, etc., and special conditions considered necessary for the experienced mechanic to take off his materials and lay out his work.
(e) Contractor shall determine the schedule of work as determined by the General Contractor and must schedule his work to maintain the building construction schedule so as not to interfere with or hold up any other Contractors.

(4) Codes, Rules, Permits and Fees

- (a) The Contractor shall give all necessary notices, obtain all permits and pay all sales taxes, fees and other costs, including utility connections or extensions, in connection with his work; file all necessary plans, prepare all documents and obtain all necessary approvals of all authorities having jurisdiction.
(b) The Contractor shall include in his work, without extra cost to the Owner, any labor, materials, service, apparatus, drawings, in order to comply with all applicable laws, ordinances, rules and regulations whether or not shown on drawings and/or specified.
(c) All materials furnished and all work installed shall comply with the National Fire Codes of the National Fire Protection Association, and with the requirements of all governmental departments having jurisdiction.
(d) All work shall be done in accordance with the North Carolina State Building Code, and requirements of governmental agencies having jurisdiction.

(5) Guarantee

- (a) The Contractor shall guarantee the complete mechanical system against defect due to faulty materials, faulty workmanship or failure due to negligence of the Contractor.
(b) Record Drawings
(c) The Contractor shall furnish record drawings indicating any and all changes in locations of ductwork or equipment from that shown on the Contract Drawings.

(6) Record Drawings

- (a) The Contractor shall furnish record drawings indicating any and all changes in locations of ductwork or equipment from that shown on the Contract Drawings.
(b) Safety Requirements
(c) Comply with all O.S.H.A. requirements.

(7) Safety Requirements

- (a) Comply with all O.S.H.A. requirements.

(8) Materials and Workmanship

- (a) All materials and apparatus required for the work, except as specified otherwise, shall be new, of first-class quality, and shall be furnished, delivered, erected, connected and finished in every detail, and shall be so selected and arranged as to fit properly into the building space.
(b) All work must be done by first-class and experienced mechanics properly supervised and it is understood that the Architect has the right to stop any work that is not being properly done and has the right to demand that any workman deemed incompetent by the Architect be removed from the job and a competent workman substituted therefor.

(9) Equipment Deviations

- (a) The Contractor must use the equipment specified in the plans and specifications or equal equipment as supplied by those manufacturers specifically named as equal.
(b) Approval rendered on shop drawings shall not be considered as a guarantee of quantities, measurements, or building conditions.

(10) Shop Drawings

- (a) The Contractor shall submit for approval four (4) sets of detailed shop drawings of all equipment and all material required to complete the project, and no materials or equipment may be delivered to the job site or installed until the Contractor has in his possession the approved shop drawings for the particular material or equipment.
(b) The Contractor shall furnish the number of copies required by the General and Special Conditions of the Contract, but in no case less than six (6) copies.

(11) Observation

- (a) The project will be observed periodically as construction progresses.
(b) The Contractor shall be responsible for the adequate clearance in hung ceilings for the proper installation of his work.

(12) Accessibility

- (a) The Contractor shall be responsible for the adequate clearance in hung ceilings for the proper installation of his work.
(b) The Contractor shall locate all equipment which must be serviced, operated or maintained in fully accessible positions.

(13) Protection

- (a) The Contractor shall protect all work and material from damage, and shall be liable for all damage during construction.

(14) Foundations, Supports, Piers, Attachments.

- (a) All equipment, unless otherwise shown, shall be securely attached to the building structure in an approved manner by this contractor.

HVAC SPECIFICATIONS

Low Pressure Ductwork.

Ductwork shall be constructed of zinc coated sheet steel and shall conform to the 1st edition of SMACNA HVAC duct construction standards—metal and flexible, 1985 as follows:

Rectangular duct: 1" w.g. Pressure class - table 1-4.

Round duct: 2" w.g. Pressure class - table 3-2.

All ductwork must be sealed in accordance with seal class c as defined in SMACNA HVAC duct construction standards—metal and flexible, 1985.

Duct hangers and supports shall conform to those shown in tables 4-1 and 4-2 of SMACNA HVAC ductwork 1985, 1st edition.

Round Ductwork.

Round ductwork shall be prefabricated spiral lock seam conduit with prefabricated fittings as manufactured by united sheet metal co., inc. Or equal. Construction shall be airtight and shall be manufactured from galvanized steel meeting astm a-517-67.

Double Wall Spiral Duct.

Duct shall be prefabricated spiral lock seam conduit with prefabricated fittings as manufactured by United Sheet Metal co., inc. Or equal.

Construction shall be an airtight, outer pressure shell, a 1" insulation layer, and a perforated metal inner liner that completely covers the insulation throughout the system.

Fittings shall be manufactured to published standards for dimensions and construction details. Installation manuals shall be supplied to the contractor to provide detailed instructions on methods and procedures for assembly.

All seams in the pressure shell of all fittings are to be continuously welded. Galvanized areas that have been damaged by welding shall be coated with corrosion resistant aluminum paint.

Inner liners of both duct and fittings are to be adequately supported by metal spacers welded in position to maintain spacing and concentricity.

Provide an inner coupling to align the inner lining to maintain good air flow conditions equivalent to standard round high pressure duct joints.

Openings shall be factory cut and framed for the grille mounting bracket and the framing shall not have excessive welding that will be noticeable beyond the grille frame.

All exposed duct shall be mill phosphatized so as to accept painting by the general contractor.

90 degree elbows shall be 5 piece gored elbows.

All joints shall be sealed using benjamin foster 30-02 sealed between screwed metal seams bonded with fiberglass tape.

Ductwork Installation.

All ductwork shall be provided in a neat workmanlike manner. The ducts shall be properly braced and reinforced. All slip joints shall be made in the direction of flow.

Turning vanes shall be provided at all tees and square elbows. Turning vanes shall be factory fabricated and designed in accordance with the smacna or ashrae guide for formed vanes.

Splitter dampers and volume extractors shall be provided in all low velocity ductwork for proper air distribution.

Handholes of not less than 6" x 6" shall be provided at all points where access is required.

Install access doors at each fire damper and smoke detector. Label all access doors.

All ductwork must be sealed in accordance with seal class c as defined in smacna hvac duct construction standards - metal and flexible, 1995.

Duct Hangers and Supports.

Duct hangers and supports shall conform to those shown in tables 4-1 and 4-2 of smacna hvac ductwork 1985, 1st edition.

Duct Leakage Test.

After installation and prior to insulating, the contractor shall perform in the presence of the engineer a duct leakage test on all rigid medium pressure duct.

The installed medium pressure duct system shall be tested to 3" wg.

The air leakage at the test pressure shall be measured by a calibrated office type flow meter.

If the system is tested in sections, the leakage rates shall be added to give the performance of the whole system.

Leakage concentrated at one point may result in objectionable noise even if the system passes the leakage rate criteria.

The orifice flow measurement device must have individually calibrated against a primary standard, and this calibrated curve permanently attached to the orifice tube assembly.

Duct Insulation.

Insulation shall be Owens-Corning, certain-teed/st. Gobain, manville or approved equivalent. Adhesives shall be as manufactured by 3-m foster or insulation manufacturer.

All vapor barriers and joints shall be sealed to prevent condensation. Clean and dry all ductwork before installing insulation.

All supply duct shall be externally insulated with fiberglass ductwrap insulation, 2" thick, 1.5# density.

Controls: Provide 7 day programmable thermostat for each system. Testing and Balancing: Work shall be performed by technicians competent in the trade of testing and balancing environmental systems.

Controls.

Provide 7 day programmable thermostat for each system.

Testing and Balancing.

Work shall be performed by technicians competent in the trade of testing and balancing environmental systems.

Instruments for use in the test and balancing procedures shall be of first quality and be accurately calibrated at the time of use.

Starting date for mechanical system shall be scheduled well in advance of expected completion date and shall be established a minimum of two weeks prior to acceptance date.

Performance readings shall be taken and recorded on all air distribution devices and the system shall be balanced out prior to acceptance.

All units shall be checked out thoroughly and the information recorded on each machine. Check sheets shall be included in operating and maintenance instructional manual.

All controls shall be calibrated by qualified personnel prior to acceptance date.

All units shall be checked out thoroughly and the information recorded on each machine.

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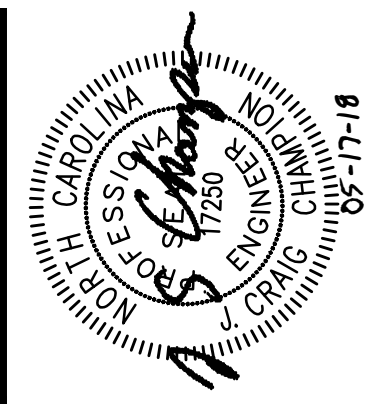
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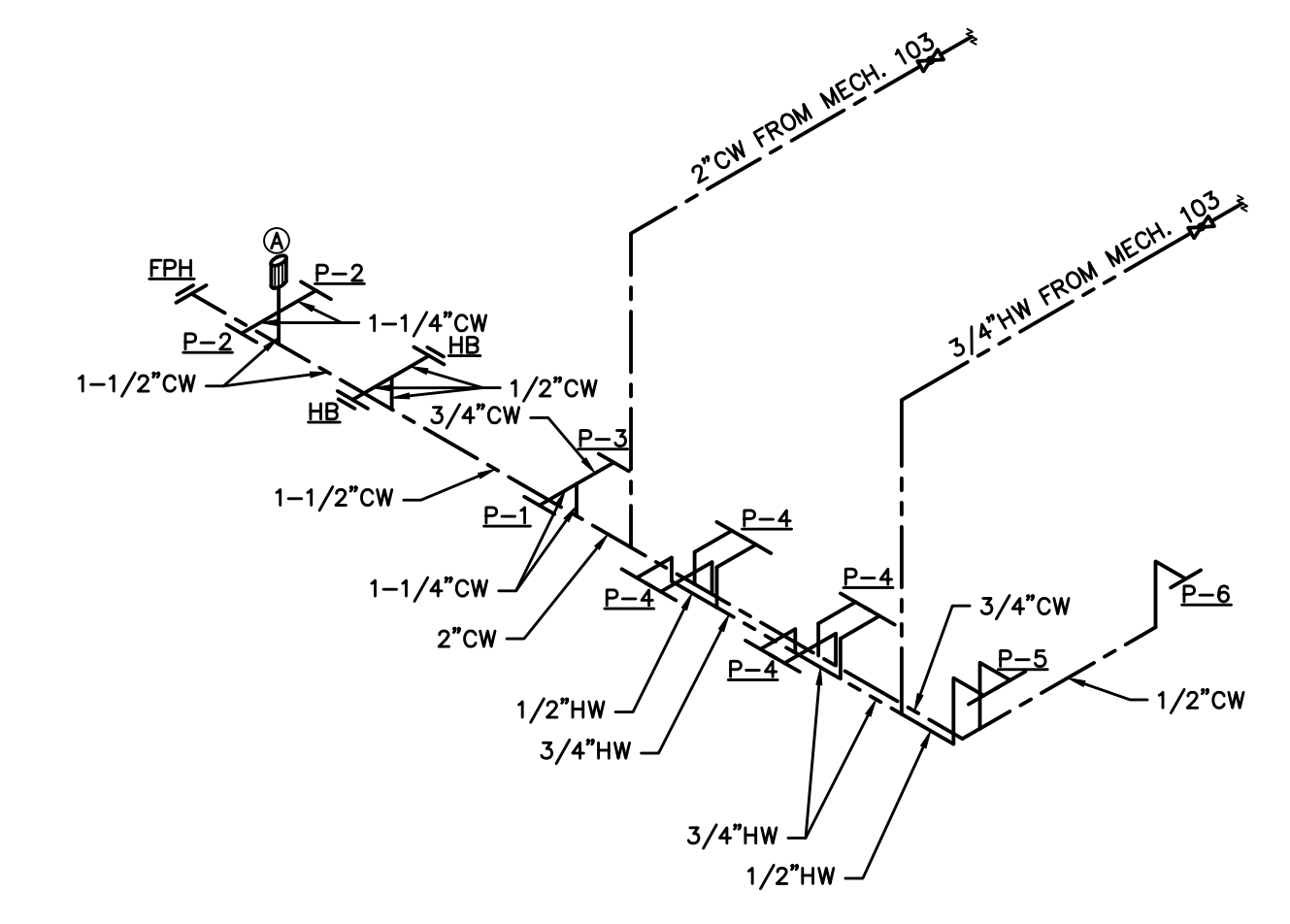
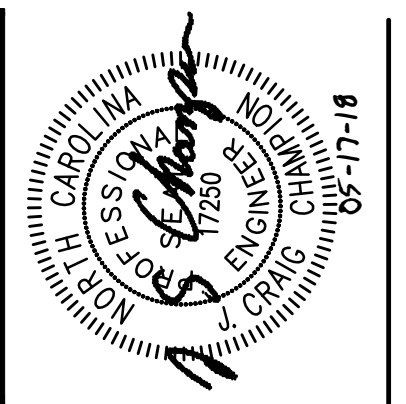


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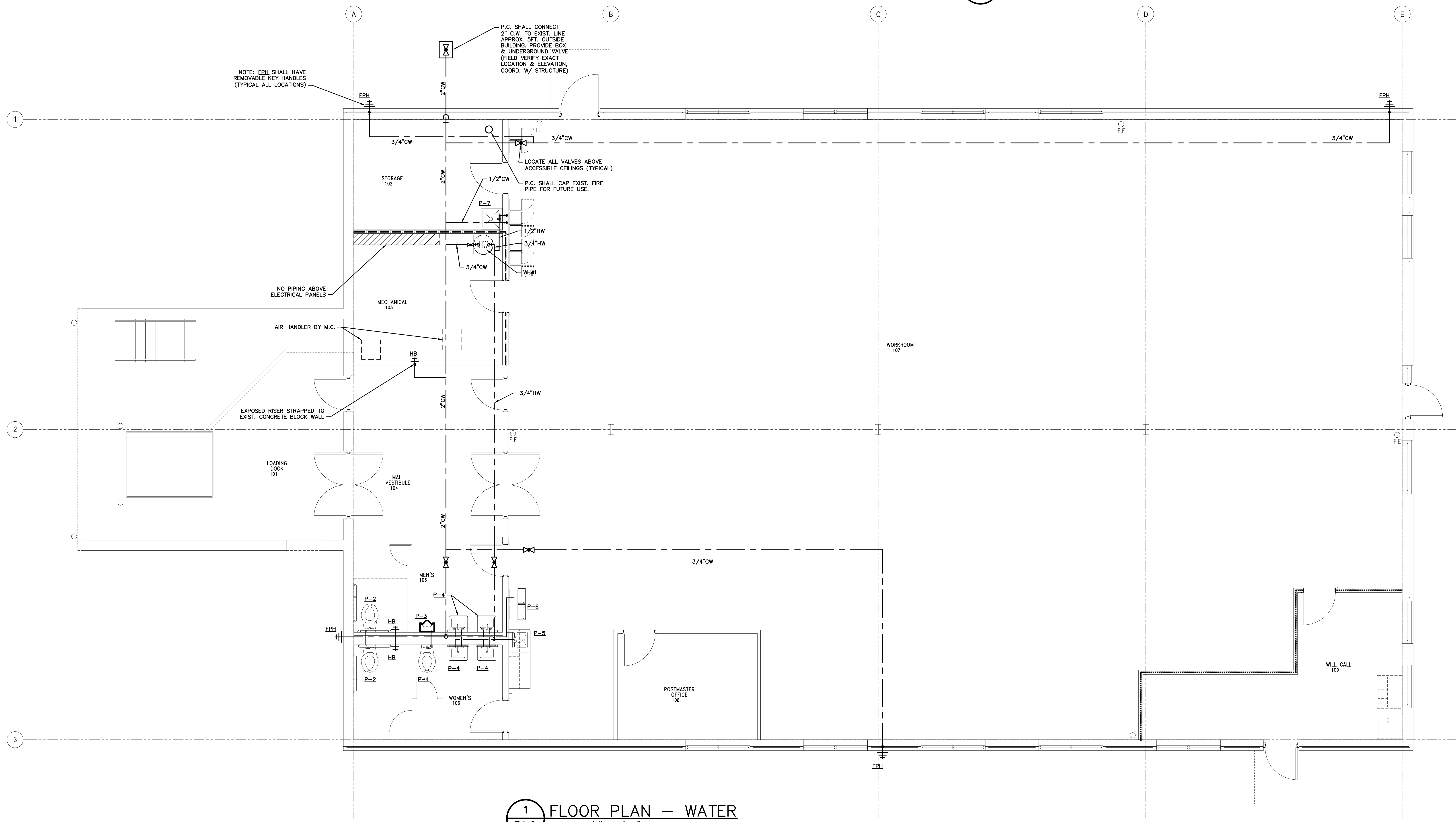
INTERIOR UFFIT USPS SPOUT SPRINGS NC-CAX

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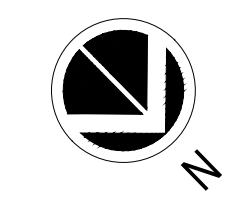
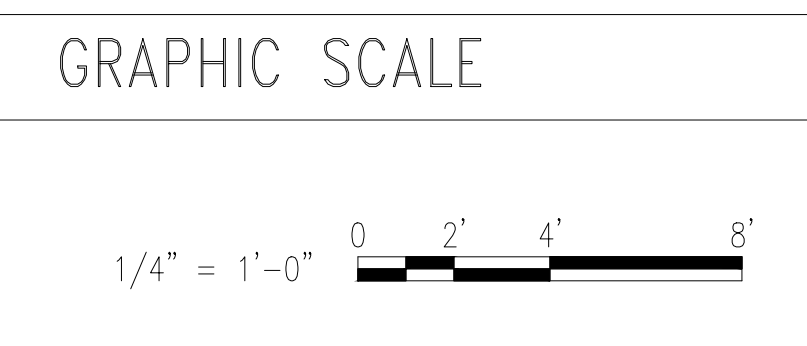
M4.1 Mechanical Specifications Scale: As Indicated Date: 5/17/2018 Project: SPOUT SPRINGS INTERIOR UFFIT

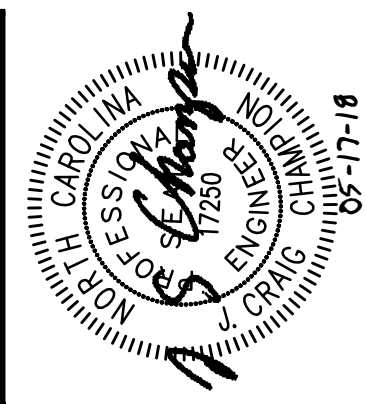


2 WATER PIPING SCHEMATIC
P1.0 NTS



1 FLOOR PLAN - WATER
P1.0 SCALE: 1/4" = 1'-0"





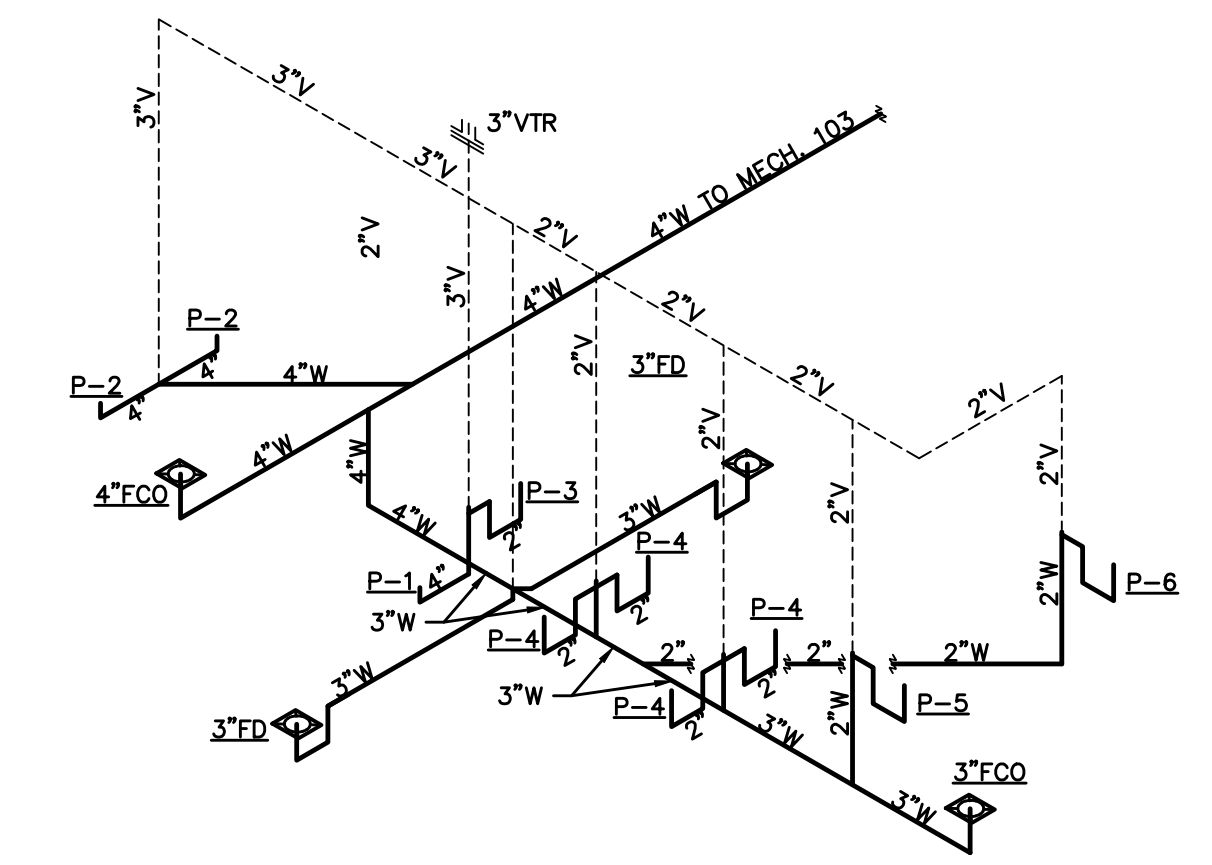
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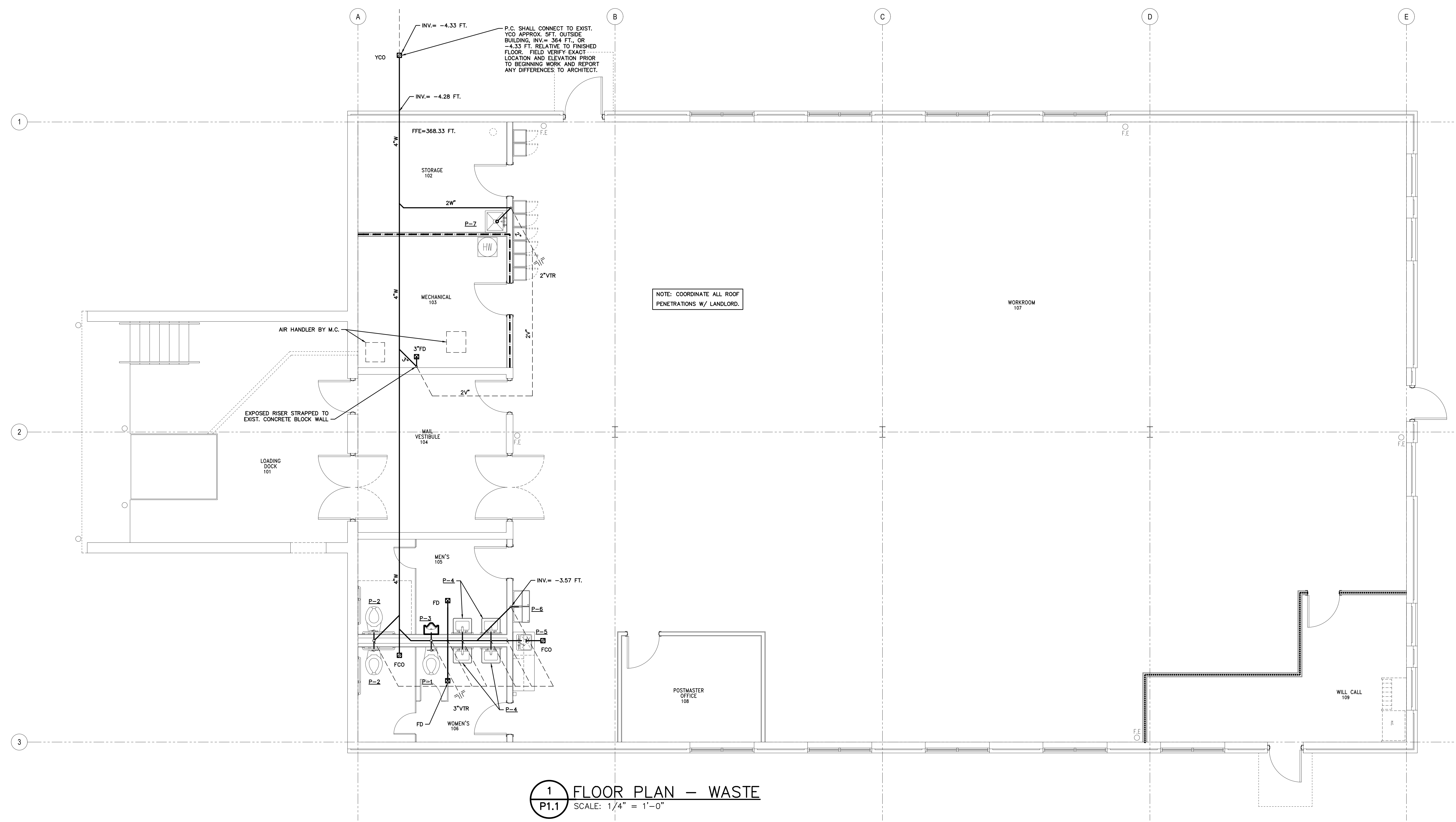
INTERIOR UPFIT
USPS SPOUT SPRINGS NC CAX
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P1.1 Plumbing Plan + Schematics - Waste
Scale: As Indicated Date: 5/17/2018
Project: SPOUT SPRINGS INTERIOR UPFIT
USPS File Number: XXXXXX
USPS Project Number: 037932



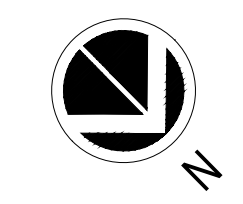
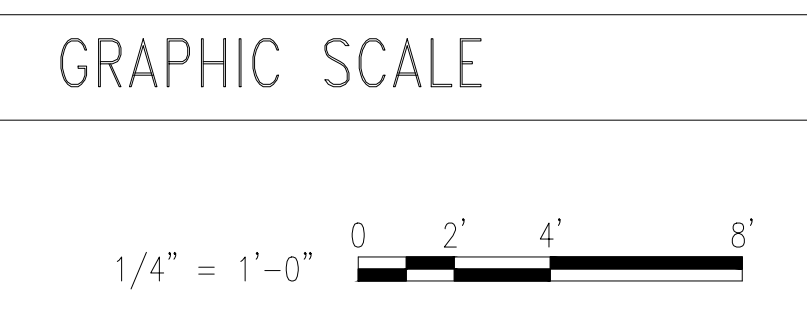
2 WASTE PIPING SCHEMATIC
P1.1 NTS

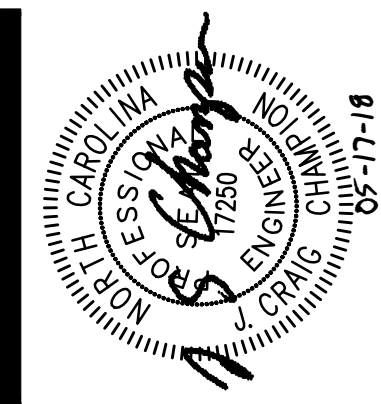


1 FLOOR PLAN - WASTE
P1.1 SCALE: 1/4" = 1'-0"

NOTE: COORDINATE ALL ROOF PENETRATIONS W/ LANDLORD.

P.C. SHALL CONNECT TO EXIST. YCO APPROX. 5FT. OUTSIDE BUILDING. INV. = 36.4 FT. OR -4.33 FT. RELATIVE TO FINISHED FLOOR. FIELD VERIFY EXACT LOCATION AND ELEVATION PRIOR TO BEGINNING WORK AND REPORT ANY DIFFERENCES TO ARCHITECT.





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INTERIOR UPTT
USPS SPOUT SPRINGS NC CAX
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UNITED STATES
POSTAL SERVICE

P3.1 Plumbing Schedules + Details
Scale: As Indicated Date: 5/17/2018
Project: SPOUT SPRINGS INTERIOR UPTT
USPS File Number: XXXXX
USPS Project Number: 037932

| PLUMBING LEGEND | | |
|-----------------|--------------|-------------------------------|
| SYMBOL | ABBREVIATION | DESCRIPTION |
| — | CW | COLD WATER |
| — | HW (110°F) | HOT WATER |
| — | HW (140°F) | HOT WATER |
| — | HWR (110°F) | HOT WATER RETURN |
| — | HWR (140°F) | HOT WATER RETURN |
| — | W | WASTE |
| — | GW | GREASE LADEN WASTE LINE |
| — | V | VENT |
| — | RL | ROOF LEADER |
| — | SD | STORM DRAIN |
| — | G | GAS |
| — | VTR | VENT THRU ROOF |
| — | | GLOBE VALVE |
| — | | BALL VALVE |
| — | | CHECK VALVE |
| — | | UNION |
| — | | PRESSURE REDUCING VALVE |
| — | FPH | FROST PROOF HYDRANT |
| — | HB | HOSE BIBB |
| — | | SHOCK ABSORBER |
| — | RD | ROOF DRAIN |
| — | FCO | FLOOR CLEANOUT |
| — | FCO/YCO | FLOOR OR YARD CLEANOUT |
| — | FS/FD | FLOOR SINK OR SQUARE FL DRAIN |
| — | SFD | SHOWER FLOOR DRAIN |
| — | | VACUUM BREAKER |
| — | | AQUASTAT |
| — | HD | HUB DRAIN |
| — | F | FIRE PROTECTION |
| — | | CONNECT TO EXISTING |

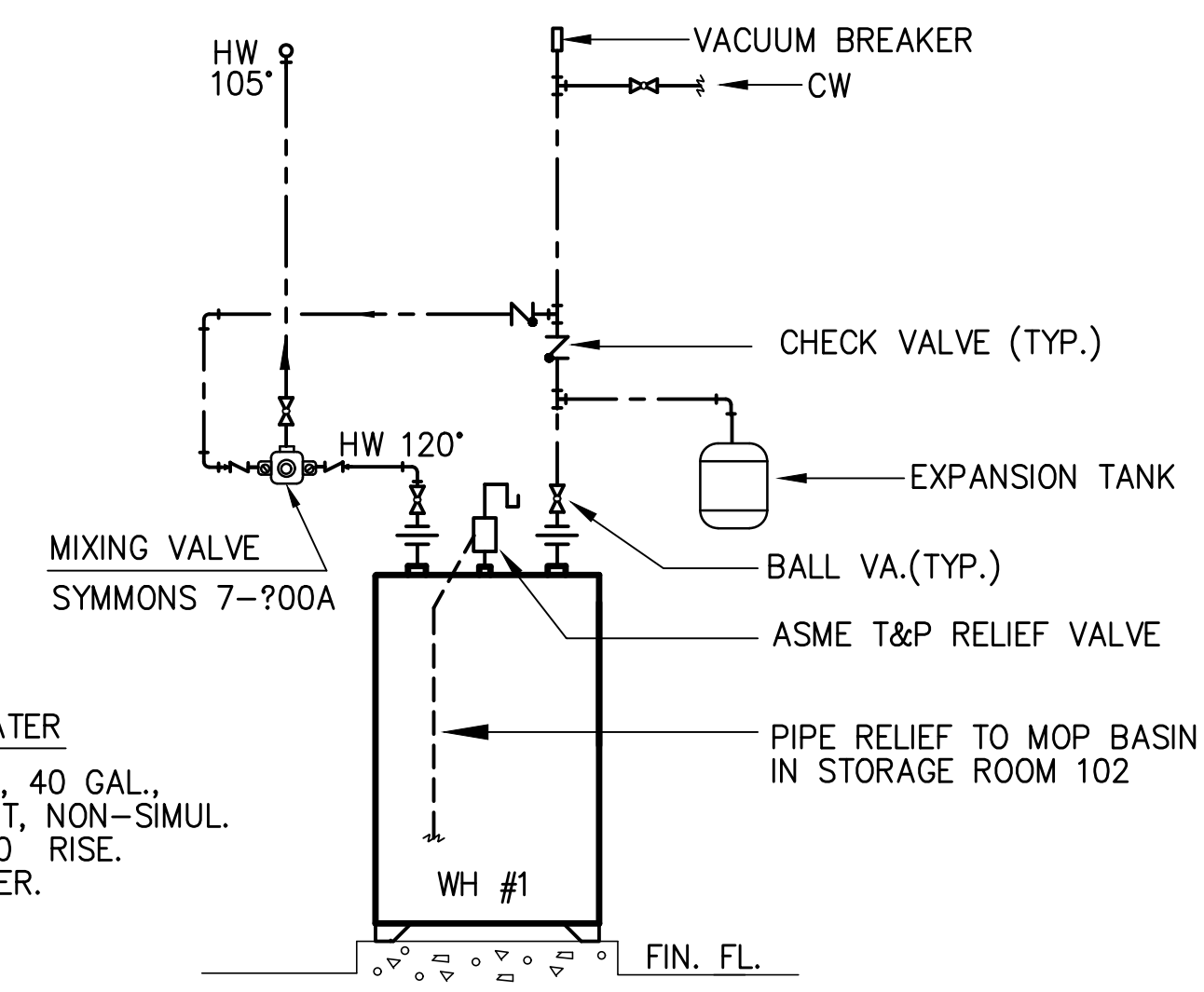
| PLUMBING SPECIALTIES SCHEDULE | | | |
|-------------------------------|----------------|--|---------|
| SYM | DESCRIPTION | MODEL NUMBER | REMARKS |
| FD | FLOOR DRAIN | ZURN ZN-415-S | 1,7 |
| FCO | FLOOR CLEANOUT | ZURN ZN-1400-T WITH NIKALOY TOP, CARPET MARKERS AS REQUIRED, SEE ARCHITECTURAL FINISH SCHEDULE FOR CARPETED AREAS. | 1 |
| YCO | YARD CLEANOUT | ZURN Z-1406-HD WITH CAST IRON TOP ZURN Z-1474-HD WITH CAST IRON TOP (TRAFFIC AREAS) | 1 |
| WCO | WALL CLEANOUT | ZURN Z-1446 W/STAINLESS STEEL COVER | 1, 8 |
| ○ | SHOCK ABSORBER | SIoux CHIEF, A=652-A, B=653-B, C=654-C, D=655-D | 6 |
| TP | TRAP PRIMER | PRECISION PRODUCTS MODEL PR-500 W/SS-X & DU-X. | 1,7 |
| TP | TRAP PRIMER | ZURN Z-1022 @ TRAP TO Z-1023 @ FLOOR DRAIN. | 1,7 |

- EQUALS BY JOSAM, JAY R. SMITH, ZURN, MIFAB, WATTS.
- EQUALS BY JOSAM, JAY R. SMITH.
- PROVIDE INTEGRAL CHECK STOPS AT ALL WALL FAUCETS.
- EQUALS BY OATEY, SIOUX CHIEF.
- PROVIDE WITH NB FRAMING GRATE
- EQUALS BY JOSAM, JAY R. SMITH, WATTS - ASSE 1010 APPROVED.
- PROVIDE AT QUICK-CLOSING FIXTURES PER IPC 604.9.
- AT EACH FLOOR DRAIN & FLOOR SINK, PROVIDE WITH TRAP PRIMER CONNECTION (SUFFIX -P) AND INCLUDE PRIMER OPTION "TP" NOTED ABOVE.
- PROVIDE WCO AT BASE OF EACH WASTE STACK PER IPC 708.3.4.

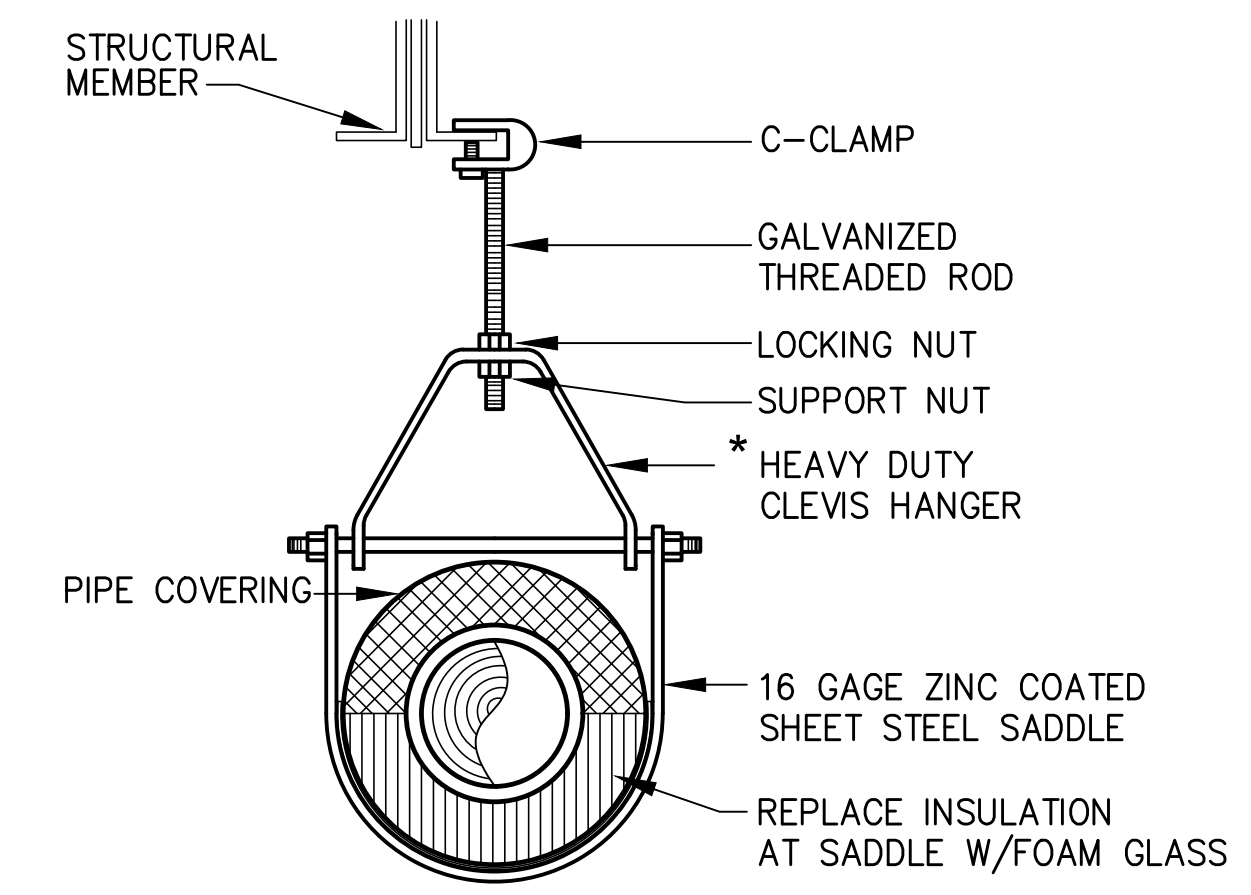
| PLUMBING FIXTURE SCHEDULE | | | | | | | |
|---------------------------|------------------------|--------|------|----|----|---|----------------|
| SYM | DESCRIPTION | CW | HW | W | V | MODEL NUMBER | REMARKS |
| P-1 | WATER CLOSET | 1 1/4" | - | 3" | 2" | KOHLER "WELLCOME" K-4350; BENEKE 527SS SEAT; SLOAN ROYAL 115-1.6-YK FLUSH VALVE | 1,4,5,6 |
| P-2 | WATER CLOSET (HDCP.) | 1 1/4" | - | 3" | 2" | KOHLER "HIGHCLIFF" K-4368; BENEKE 527SS SEAT; SLOAN ROYAL 111 FLUSH VALVE | 1,4,5,6,7, 8 |
| P-3 | URINAL | 3/4" | - | 2" | 2" | KOHLER "DEXTER" K-5016-ET W/SLOAN ROYAL 186-1 FLUSH VALVE | 1,3,4,6 |
| P-4 | LAVATORY (WALL/GRID) | 1/2" | 1/2" | 2" | 2" | KOHLER "HUDSON" K-2861; DELTA 501LF-HGMHDF FAUCET; K-7607 SUPPLY; K-8998 TRAP, K-7129-A DRAIN. | 1,2,3,9, 15,17 |
| P-5 | SINGLE OMP. SINK (ADA) | 1/2" | 1/2" | 2" | 2" | ELKAY LRAD-2219-65 W/LK-335 STRAINER; CHICAGO 201-AGNBAE2805-5-317ABCP FAUCET; KOHLER K-7607 SUPPLY, K-9000 TRAP | 1,2,10,15, 16 |
| P-6 | WATER COOLER (HI/LO) | 1/2" | - | 2" | 2" | OASIS MODEL PBACSL, PROVIDE ACCESSORY APRON ON UPPER UNIT. PROVIDE STOP & TRAP. COLOR SELECTED BY ARCHITECT. | 1,13,18 |
| P-7 | MOP BASIN | 1/2" | 1/2" | 3" | 2" | FIAT MSB-2424 W/ 830-AA FAUCET, 832-AA HOSE BRACKET, 888-CC MOP HANGER & SEALANT AS REQUIRED. INCLUDE SS WALL GUARDS. | 1,14,19 |

- SEE ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL FIXTURES.
- PROVIDE TRUEBRO MODEL 102 INSULATION KIT, PLUMBEREX MODEL PRO-2000 OR MCGUIRE PWV8902 PREWRAPPED CAST P-TRAP ASSEMBLY KIT ON ALL HANDICAP ACCESSIBLE LAVATORIES AND/OR SINKS.
- PROVIDE CARRIERS FOR ALL WALL MOUNTED FIXTURES. FOR LAVATORIES: SINGLE HANGER FOR BLOCK WALLS; FOR GYPBOARD WALL, PROVIDE FLOOR-MOUNT ARM CARRIERS (CONCEALED OR EXPOSED PER MFR'S REQUIREMENTS).
- EQUAL CHINA FIXTURE BY AMERICAN STANDARD, ZURN & SLOAN.
- EQUAL TOILET SEAT BY BEMIS, OLSONITE & BENEKE.
- EQUAL FLUSH VALVES BY ZURN & TOTO.
- TOP OF FLUSH VALVE SHALL BE LOCATED MINIMUM 3" BELOW BOTTOM OF GRAB BAR. P.C. TO CUT OUTLET TUBE AS REQUIRED.
- FLUSH VALVE MECHANISM SHALL BE LOCATED OPPOSITE OF HAND RAIL AS PER ADA REQUIREMENT.
- EQUAL FAUCETS BY SYMMONS, CHICAGO FAUCETS, DELTA, MOEN & AMERICAN STANDARD.
- EQUAL STAINLESS STEEL SINK BY FRANKE & JUST.
- EQUAL SHOWER STALL BY AMERICAN STANDARD, CRANE, AQUATIC, MAAX, AQUA GLASS & AQUARIUS.
- EQUAL SHOWER TRIM BY LEONARD & SPEAKMAN (PROVIDE SHOWER PAN AS REQ'D PER CODE SECTION 417.4 & 417.5; SEE ARCH DWGS/SPECS FOR DETAILS).
- EQUAL WATER COOLER/DRINKING FOUNTAIN BY HALSEY TAYLOR, SUNROC, HAWS & ELKAY.
- EQUAL MOP BASIN BY SWANSTONE, E.L.MUSTEE.
- WHEN ASTERISK "*" PREFIX IS USED, PROVIDE TRAP PRIMER AND PIPE 1/2" LINE BELOW SLAB TO FLOOR DRAIN.
- EQUAL FAUCETS BY CHICAGO FAUCETS, T&S, ELKAY, ZURN & AMERICAN STANDARD.
- SINGLE SINK = RIGID SPOUT; DOUBLE SINK = RESTRICTED SPOUT.
- EQUAL CAST IRON LAVATORIES BY GECO & ZURN.
- ACCESSORY APRON MAY BE OMITTED IF WATER COOLER IS RECESSED.
- PROVIDE INTEGRAL CHECK STOPS AT ALL WALL FAUCETS.
- EQUAL SPECIALTY FIXTURE BY OATEY, SIOUX CHIEF.

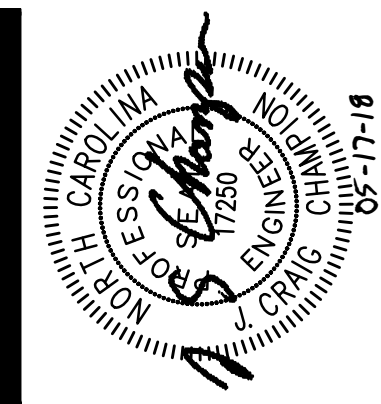
| PLUMBING LOAD SUMMARY | |
|-----------------------|-------|
| WATER FU | 44.75 |
| WATER GPM | 48.0 |
| WASTE FU | 23 |
| HW GPH (110°F) | 45 |



2 WATER HEATER DETAIL
P3.1 NTS NOTE: PIPING ARRANGEMENT SHALL BE PER MFR'S RECOMMENDATIONS



1 PIPE HANGER DETAIL
P3.1 NTS * CONTRACTOR OPTION: MICHIGAN HANGER #403



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The Walker Group Architecture, Inc
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INTERIOR UPTT
USPS SPOUT SPRINGS NC XAX
XXXXXXXXXX
XXXXXXXXXX

UNITED STATES
POSTAL SERVICE

P4.1 Plumbing Specifications
Scale: As Indicated Date: 5/11/2018
Project: SPOUT SPRINGS INTERIOR UPTT
USPS File Number: XXXXX
USPS Project Number: 027932

SPECIFICATIONS

(1) Scope

- (a) This specification covers work done by the Plumbing Contractor. It is the contractor's responsibility to determine which portion is applicable to his trade.
- (b) The Contractor shall coordinate the work and equipment of this Division with the work and equipment specified elsewhere in order to assure a complete and satisfactory installation. Work such as flashing, wiring, etc., which is required by the work of this Section shall be performed in accordance with the requirements of the applicable Section of the specifications.
- (c) It is the intention of these specifications and drawings to call for finished work, tested and ready for operation. Whenever the word "provide" is used, it shall mean "furnish and install complete and ready for use."
- (d) Minor details not usually shown or specified, but necessary for the proper installation and operation, shall be included in the work, the same as if herein specified or shown.
- (e) This Contractor is referred to the General Conditions Of The Contract For Construction. This document shall form a part of this specification and shall be binding on this Contractor by reference.
- (f) Some items of equipment are specified in the singular; however, the Contractor shall provide and install the number of items of equipment as indicated on the drawings, and as required for complete systems.

(2) Contractor's Qualifications

- (a) It is assumed that the Contractor has had sufficient general knowledge and experience to anticipate the needs of a construction of this nature. The Contractor shall furnish all items required to complete the construction in accordance with reasonable interpretation of the intent of the drawings and specifications. Any minor items required by code, law or regulations shall be provided whether or not specified or not specifically shown where it is a part of a major item of equipment, or of the control system specified or shown on the plans.

(3) Duties of Contractor

- (a) Contractor shall furnish and install all materials called for in these specifications and accompanying drawings, and must furnish the apparatus complete in every respect. Anything called for in the specifications and not shown on the drawings or shown on the drawings and not called for in the specifications, must be furnished by the Contractor.
- (b) Contractor is responsible for familiarizing himself with the details of the construction of the building. Work under these specifications installed improperly or which requires changing due to improper readings or interpretation of building plans shall be corrected and changed as directed by the Architect without additional cost to the Owner.
- (c) The Contractor shall follow drawings in laying out work, check drawings of other trades to verify spaces in which work will be installed and maintain maximum headroom and space conditions at all points. Where headroom or space conditions appear inadequate, Architect shall be notified before proceeding with installation.
- (d) The plans are diagrammatic and are not intended to show each and every fitting or a complete detail of all the work to be done, but are for the purpose of illustrating the type of system, showing duct sizes, etc., and special conditions considered necessary for the experienced mechanic to take off his materials and lay out his work. This Contractor shall be responsible for taking such measurements as may be necessary at the job and adapting his work to local conditions.
- (e) Contractor shall determine the schedule of work as determined by the General Contractor and must schedule his work to maintain the building construction schedule so as not to interfere with or hold up any other Contractors.

(4) Codes, Rules, Permits and Fees

- (a) The Contractor shall give all necessary notices, obtain all permits and pay all sales taxes, fees and other costs, including utility connections or extensions, in connection with his work; file all necessary plans, prepare all documents and obtain all necessary approvals of all authorities having jurisdiction, obtain all required certificates of inspection for his work and deliver same to the Architect before request for acceptance and final payment of the work.
- (b) The Contractor shall include in his work, without extra cost to the Owner, any labor, materials, service, apparatus, drawings, in order to comply with all applicable laws, ordinances, rules and regulations whether or not shown on drawings and/or specified.
- (c) All materials furnished and all work installed shall comply with the National Fire Codes of the National Fire Protection Association, and with the requirements of all governmental departments having jurisdiction.
- (d) All work shall be done in accordance with the North Carolina State Building Code, and requirements of governmental agencies having jurisdiction.

(5) Guarantee

- (a) The Contractor shall guarantee the complete mechanical system against defect due to faulty materials, faulty workmanship or failure due to negligence of the Contractor. This guarantee will exclude normal wear and tear, maintenance lubrication, replacement of expendable components, or abuse. The guarantee period shall begin on the date of the final acceptance and shall continue for a period of 12 months during which time the Contractor shall make good such defective workmanship and materials and any damage resulting therefrom, within a reasonable time of notice given by the Owner. Refrigeration compressor shall have a five year warranty.

(6) Record Drawings

- (a) The Contractor shall furnish record drawings indicating any and all changes in locations of ductwork or equipment from that shown on the Contract Drawings. The drawings shall consist of clean, legible prints of the Contract Drawings, available from the Architect on which the Contractor shall mark all notes, dimensions, sizes and information required. The prints shall be kept for this purpose only. Before final inspection the Contractor shall submit the Record Drawings to the Architect.

(7) Safety Requirements

- (a) Comply with all O.S.H.A. requirements.

(8) Materials and Workmanship

- (a) All materials and apparatus required for the work, except as specified otherwise, shall be new, of first-class quality, and shall be furnished, delivered, erected, connected and finished in every detail, and shall be so selected and arranged as to fit properly into the building space. Where no specific kind or quality of material is given, a first-class standard article as approved by the Architect shall be furnished.
- (b) All work must be done by first-class and experienced mechanics properly supervised and it is understood that the Architect has the right to stop any work that is not being properly done and has the right to demand that any workman deemed incompetent by the Architect be removed from the job and a competent workman substituted therefor.

(9) Equipment Deviations

- (a) The Contractor must use the equipment specified in the plans and specifications or equal equipment as supplied by those manufacturers specifically named as equal.

(10) Shop Drawings

- (a) The Contractor shall submit for approval four (4) sets of detailed shop drawings of all equipment and all material required to complete the project, and no materials or equipment may be delivered to the job site or installed until the Contractor has in his possession the approved shop drawings for the particular material or equipment. The shop drawings shall be complete as described herein. The Contractor shall furnish the number of copies required by the General and Special Conditions of the Contract, but in no case less than six (6) copies. Shop drawings shall bear approval of Contractor.

- (b) Approval rendered on shop drawings shall not be considered as a guarantee of quantities, measurements, or building conditions. Where drawings are approved, said approval does not in anyway relieve the Contractor from his responsibilities or necessity of furnishing material or performing work as required by the Contract Drawings and specifications.

(11) Observation

- (a) The project will be observed periodically as construction progresses. The contractor will be responsible for notifying the Architect at least 72 hours in advance when any work to be covered up is ready for inspection. No work will be covered up until after observation has been completed on such items as piping and insulation, etc.

(12) Accessibility

- (a) Contractor shall be responsible for the adequate clearance in hung ceilings for the proper installation of his work. He shall cooperate with the General Contractor and all other Contractors whose work is in the same space, and shall advise the General Contractor of his requirements. Such spaces and clearances shall, however, be kept to the minimum size required.
- (b) The Contractor shall locate all equipment which must be serviced, operated or maintained in fully accessible positions. If required for better accessibility, furnish access doors for this purpose. Minor deviations from drawings may be allowed for better accessibility and any change shall be submitted for approval.

(13) Protection

- (a) The Contractor shall protect all work and material from damage, and shall be liable for all damage during construction.

(14) Concealed Pipe.

- (a) In general, all pipe in finished spaces shall be run concealed in floors, walls, partitions and above ceilings under the insulation unless specifically noted otherwise.

(15) Foundations, Supports, Piers, Attachments.

- (a) All equipment, unless otherwise shown, shall be securely attached to the building structure in an approved manner by this contractor. Attachments shall be of a strong and durable nature and any attachments that are, in the opinion of the architect/engineer not strong enough shall be replaced as directed.

(16) Test.

- (a) All piping shall be tested before covering is applied or work concealed, and all leaks corrected by removal of defective material and/or making up new joints. Equipment shall be protected from test pressure by capping lines or with valves during test. Caulking of piping will not be permitted and where evident of caulking is noted, the joints shall be removed from the piping system regardless of whether or not it is leaking.
- (b) Test on all pipe work shall be subject to observation by the Architect/Engineer. He shall be given 72 hours notice when a section of pipe is to be tested and the test shall not be removed, weather permitting, until permission is given by the architect.
- (c) Test all water piping at 125 psi.
- (d) Test all waste and vent piping with a 10 foot head.

(17) Piping.

- (a) Soil, waste, vent and drain piping shall be cast iron soil pipe. All pipe shall be service weight ASTM A-74-69 bell and spigot, bearing the label of the Cast Iron Soil Pipe Institute and shall be listed by NSF International. The casings shall be gray iron of good quality made by Cupola, Air Furnace, or Electric Furnace process. The resultant pipe shall be compact, close grained metal, soft enough to permit cutting and drilling. Pipe shall have been hydrostatically tested at not less than 50 pounds per square inch gauge. Factory coated by heating to 300°F and dripping in a bath of coal tar pitch and oil.
- (b) Water piping shall be hard drawn copper tubing ASTM B 88 type "L" above grade, type "K" below grade. Fittings for copper tubing shall be ANSI B16.18 or B16.22 solder joint fittings. Ends of pipe shall be reamed, pipe and fittings cleaned. Use only 95-5 (95% tin and 5% antimony) solder with non-corrosive flux on 1-1/4" and smaller and on 1-1/2" and larger use silver solder (minimum 12% silver), with a melting point greater than 1000°F. Submit solder for approval.

(18) Ball Valves..

- Ball valves shall be bronze, two piece construction rated for 125 SWP/400 WOG. Valves shall have conventional port with Teflon seats. Stem shall be silicone bronze. Sizes 1/4" - 2". All ball valves installed in insulated piping shall have extended tee handles.

| MANUFACTURER | THREADED 125# | SOLDER 125# |
|--------------|---------------|-------------|
| NIBCO | T580 | S580 |
| APOLLO | 70-100 | 70-200 |
| STOCKHAM | S214-BR-T-T | S214-BR-T-S |

(19) Hangers.

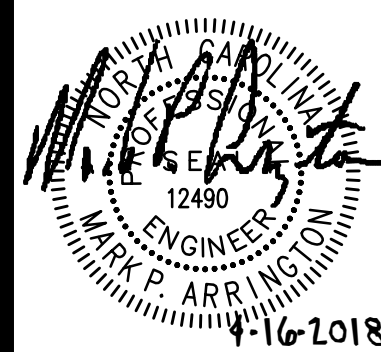
- (a) All piping shall be supported on not less than 10" centers and within 30" of each change of direction except that piping 1 1/4" size and smaller shall be supported on 8" centers.
- (b) Pipe hangers shall be supported by means of iron hanger rods from the building construction or from structural steel members, and in an approved manner. Where required, piping shall be hung from angle iron clips or suitable brackets attached to sides of masonry construction.

(20) Pipe Insulation.

- (a) All water piping shall be insulated with heavy density fiberglass with an all-service jacket composed of an outer layer of vinyl, fiberglass scrim cloth, aluminum foil, and kraft paper, in that order, from outside to inside of pipe covering. Insulation thickness shall be 1" for all piping.

(21) Cleaning.

- (a) Clean and disinfect potable water piping as follows:
 1. Purge all piping before using.
 2. Use purging and disinfecting procedures prescribed by authorities having jurisdiction; if methods are not prescribed, use procedures in either AWWA C651 or AWWA C652 or follow procedures described below:
 - A. Flush with clean, potable water until dirty water does not appear at outlets.
 - B. Fill and isolate system according to either of the following:
 1. Fill system with water / chlorine solution with at least 50 ppm of chlorine. Isolate with valves and allow to stand 24 hours.
 2. Fill system with water / chlorine solution with at least 200 ppm of chlorine. Isolate with valves and allow to stand 3 hours.
 - C. Flush system with clean, potable water until no chlorine is in water coming from system after the standing time.
 - D. Submit water samples in sterile bottles to authorities having jurisdiction. Repeat procedures if biological examination shows contamination.
- (b) Prepare and submit reports of purging and disinfecting activities
- (c) Clean interior of domestic water piping system. Remove dirt and debris as work progresses.



| SYMBOL SCHEDULE | |
|------------------------|--|
| GENERAL SYMBOLS | |
| SYMBOL | DESCRIPTION |
| --- | CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS. |
| ---- | CONDUIT RUN CONCEALED IN OR BELOW FLOORS OR UNDERGROUND. |
| - - - - | CONDUIT RUN EXPOSED. |
| ↗ | CONDUIT TURNING UP |
| ↘ | CONDUIT TURNING DOWN |
| □ | SQUARE ON CONDUIT SYMBOL INDICATES THAT CIRCUIT CONTINUES BUT NOT SWITCHED. |
| → | HOMERUN TO PANEL AND CIRCUIT(S) DESIGNATED. ARROW(S) INDICATE QUANTITY OF CIRCUITS. |
| ⊙ | JUNCTION BOX PER N.E.C. |
| ⊕ | SPECIAL NOTE, NUMERALS IDENTIFY, SEE SCHEDULE. |
| ⊖ | SPECIAL CONNECTION TO A SPECIFIC ITEM OF EQUIPMENT. SEE CONNECTION SCHEDULE. |
| ⊗ | MOTOR CONNECTION. RATING AS NOTED. |
| WIRING DEVICES | |
| SYMBOL | DESCRIPTION |
| ⊕ | DUPLEX RECEPTACLE, 125V, 3-WIRE GROUNDING TYPE. |
| ⊕ EWC | DUPLEX RECEPTACLE, 125V, GROUND FAULT CIRCUIT INTERRUPTING, 3-WIRE GROUNDING TYPE. LOCATE WITHIN OR BEHIND AN ELECTRIC WATER COOLER. COORDINATE WITH PLUMBER FOR EXACT LOCATION. |
| ⊕ GFI | DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTING. |
| ⊕ GFI EWC | DUPLEX GFCI RECEPTACLE. PROVIDE WITH OPERABLE, IN-USE WEATHERPROOF COVER. |
| ⊕ SW | DUPLEX RECEPTACLE, SWITCHED. |
| ⊕ SW EWC | TWO DUPLEX RECEPTACLES, 125V, 3-WIRE GROUNDING TYPE, IN A TWO-GANG BOX WITH TWO-GANG FACEPLATE. |
| ⊕ SP | SPECIAL PURPOSE RECEPTACLE, WITH SPECIAL NEMA CONFIGURATION AS NOTED. |
| ⊕ H | HEAVY-WALL METAL CONDUIT STUB-UP FROM FLOOR, AT HEIGHT INDICATED, WITH CAST FS-TYPE BOX AND WIRING DEVICE AS INDICATED. |
| ⊕ W | WALL OUTLET FOR TELECOMMUNICATIONS. SEE SPECIFICATIONS AND/OR DRAWINGS FOR CONDUIT AND CABLING REQUIREMENTS. |
| ⊕ D | DOT ABOVE OUTLETS INDICATES THAT THE DEVICE IS TO BE INSTALLED ABOVE CASEWORK OR OTHER OBSTACLE. COORDINATE. |
| S | LIGHT SWITCH, SINGLE-POLE. |
| S3 | LIGHT SWITCH, 3-WAY. |
| SWP | LIGHT SWITCH, WEATHERPROOF. |
| SW | PROGRAMMABLE LIGHT SWITCH, WALL MOUNTED. |
| SS | WHERE TWO SWITCHES ARE SHOWN CONTROLLING A SINGLE OR COMMON GROUP OF FLUORESCENT LIGHTING FIXTURES, EACH WITH 3 OR MORE LAMPS, THE SWITCH CLOSEST TO THE DOOR SHALL CONTROL THE INNER LAMP(S) IN EACH FIXTURE, AND THE OTHER SWITCH SHALL CONTROL THE OUTER LAMP(S) IN EACH FIXTURE. WHERE INDICATED, MASTER-SLAVE BALLAST WIRING SHALL BE UTILIZED TO ACHIEVE THIS CONTROL. |
| ⊕ | EQUIPMENT CONTROL STATION. MOUNT 48" ABOVE FINISHED FLOOR. |
| ⊕ | DUAL TECHNOLOGY OCCUPANCY SENSOR, CEILING MOUNTED. PROVIDE WITH 10 FEET WHIP TO ALLOW FIELD ADJUSTMENT OF LOCATION. COORDINATE EXACT LOCATION WITH MANUFACTURER'S RECOMMENDATION. |
| LIGHTING | |
| SYMBOL | DESCRIPTION |
| □ | FLUORESCENT LIGHTING FIXTURE, DRAWN TO SCALE. |
| □ | FLUORESCENT LIGHTING FIXTURE, CONNECTED TO AN EMERGENCY CIRCUIT (SWITCHED) |
| □ | FLUORESCENT LIGHTING FIXTURE, UTILIZED AS A NIGHT-LIGHT. CONNECT TO THE UNSWITCHED LEG OF THE CIRCUIT. |
| □ | FLUORESCENT LIGHTING FIXTURE, CONNECTED TO AN EMERGENCY CIRCUIT, CONNECT TO THE UNSWITCHED LEG OF THE CIRCUIT. |
| □ | BARE FLUORESCENT STRIP FIXTURE. |
| □ | BARE FLUORESCENT STRIP FIXTURE CONNECTED TO AN EMERGENCY CIRCUIT. CONNECT TO THE UNSWITCHED LEG OF THE CIRCUIT. |
| ○ | COMPACT FLUORESCENT LIGHTING FIXTURE, CEILING MOUNTED. |
| ● | COMPACT FLUORESCENT LIGHTING FIXTURE, CONNECTED TO AN EMERGENCY CIRCUIT OR EMERGENCY BALLAST. |
| ⊗ | COMPACT FLUORESCENT LIGHTING FIXTURE. UTILIZED AS A NIGHT-LIGHT. CONNECT TO THE UNSWITCHED LEG OF THE CIRCUIT. |
| ⊗ | COMPACT FLUORESCENT LIGHTING FIXTURE. CONNECTED TO AN EMERGENCY CIRCUIT OR EMERGENCY BALLAST. CONNECT TO THE UNSWITCHED LEG OF THE CIRCUIT. |
| ○ | COMPACT FLUORESCENT LIGHTING FIXTURE, WALL MOUNTED. |
| ● | COMPACT FLUORESCENT CONNECTED TO AN EMERGENCY CIRCUIT OR EMERGENCY BALLAST. |
| ○ | EXIT SIGN, CEILING MOUNTED. SHADING INDICATES FACE ORIENTATION. CONNECT TO THE UNSWITCHED LEG OF THE CIRCUIT. |
| ○ | EXIT SIGN, WALL MOUNTED. SHADING INDICATES FACE ORIENTATION. CONNECT TO THE UNSWITCHED LEG OF THE CIRCUIT. |
| ⊕ | EMERGENCY BATTERY PACK FIXTURE, CEILING MOUNTED. CONNECT TO UNSWITCHED LEG OF THE CIRCUIT. |
| ⊕ | EMERGENCY BATTERY PACK FIXTURE, WALL MOUNTED. CONNECT TO UNSWITCHED LEG OF THE CIRCUIT. |
| ⊕ | PHOTOCELL CONTROL DEVICE. MOUNT ON ROOF FACING NORTH. |
| DISTRIBUTION | |
| SYMBOL | DESCRIPTION |
| ▬ | ELECTRICAL PANELBOARD, FLUSH MOUNTED. |
| ▬ | ELECTRICAL PANELBOARD, SURFACE MOUNTED. |
| ▬ | CONTROL CABINET, FLUSH OR SURFACE MOUNTED. |
| ⊕ | DISCONNECT SWITCH, NON-FUSIBLE. |
| ⊕ | DISCONNECT SWITCH, FUSIBLE. |
| ⊕ | DISCONNECT SWITCH PROVIDED WITH EQUIPMENT. |
| ⊕ | GROUND CONNECTION. |

ABBREVIATIONS

| | | | |
|------|--------------------------------|------|---|
| A | AMPERES | KW | KILOWATTS |
| ACC | ARMORED CLAD CABLE | LPMC | LIQUIDTIGHT FLEXIBLE NON-METALLIC CONDUIT |
| AFF | ABOVE FINISHED FLOOR | LVC | LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT |
| AFG | ABOVE FINISHED GRADE | LVC | LOW VOLTAGE CONTROL CABINET |
| ANN | FIRE ALARM ANNUNCIATOR CABINET | MCC | MAIN CIRCUIT BREAKER |
| C | CONDUIT | MCC | METAL CLAD CABLE |
| CB | CIRCUIT BREAKER | MLO | MAIN LUGS ONLY |
| CKT | CIRCUIT | MTO | MOUNTED |
| CLG | CEILING | NMC | NON-METALLIC CLAD CABLE |
| DN | DOWN | PB | PULLBOX |
| DW | DISHWASHER | PBL | PANELBOARD |
| EC | EMPTY CONDUIT | PRS | PROGRAM RAPID START |
| EMT | ELECTRICAL METALLIC TUBING | PS | PROGRAM START |
| ENT | ELECTRICAL NON-METALLIC TUBING | PWR | POWER |
| EWC | ELECTRIC WATER COOLER | REC | RECEPTACLE |
| FACP | FIRE ALARM CONTROL PANEL | RMC | RIGID METAL CONDUIT |
| FMC | FLEXIBLE METAL CONDUIT | RS | RAPID START |
| G | GROUND | SC | FIRE ALARM PULL STATION |
| GFI | GROUND FAULT INTERRUPTER | SW | SWITCH |
| HOA | HAND OFF AUTOMATIC | SWBD | SWITCHBOARD |
| HP | HORSEPOWER | TTB | TELEPHONE TERMINAL BOARD |
| HPF | HIGH POWER FACTOR | TEL | TELEPHONE |
| HX | HIGH REACTANCE | TV | TELEVISION |
| HD | HAND DRYER | TYP | TYPICAL |
| IS | ISOLATED GROUND | V | VOLTS |
| IMC | INTERMEDIATE METAL CONDUIT | VP | VAPOR PROOF |
| IS | INSTANT START | W | WALL MOUNTED |
| JB | JUNCTION BOX | WG | WIRE GUARD |
| KVA | KILOVOLT-AMPERES | WP | WEATHER PROOF |
| FPN | FUSE PER NAMEPLATE | XFMR | TRANSFORMER |

MOUNTING HEIGHTS

| | |
|---|---|
| (DISTANCE FROM FINISHED FLOOR TO CENTER OF DEVICE UNLESS OTHERWISE NOTED) | |
| RECEPTACLE | |
| GENERAL | 18" AFF. (UNLESS OTHERWISE NOTED) |
| ABOVE COUNTER TOP | 46" AFF. (UNLESS OTHERWISE NOTED) |
| LIGHT SWITCH | |
| GENERAL | 46" AFF. (UNLESS OTHERWISE NOTED) |
| ABOVE COUNTER TOP | 46" AFF. (UNLESS OTHERWISE NOTED) |
| TELECOMMUNICATIONS | |
| GENERAL | 18" AFF. (UNLESS OTHERWISE NOTED) |
| ABOVE COUNTER TOP | 46" AFF. (UNLESS OTHERWISE NOTED) |
| WALL | 46" AFF. (UNLESS OTHERWISE NOTED) |
| TELEVISION | |
| GENERAL | 18" AFF. (UNLESS OTHERWISE NOTED) |
| FIRE ALARM | |
| PULL STATION | 46" AFF. |
| AUDIBLE/STROBE COMBINATION OR STROBE DEVICE ONLY | THE BOTTOM OF THE APPLIANCE SHALL BE: 80" ABOVE THE FINISHED FLOOR. |

ELECTRICAL SYSTEM AND EQUIPMENT (2012 NC ENERGY CODE)

Method of Compliance:
Energy Code: Prescriptive Performance
ASHRAE 90.1: Prescriptive Performance

Lighting schedule
Lamp type required in fixture: REFER TO LIGHTING FIXTURE SCHEDULE
number of lamps in fixture: REFER TO LIGHTING FIXTURE SCHEDULE
ballast type used in the fixture: REFER TO LIGHTING FIXTURE SCHEDULE
number of ballasts in fixture: REFER TO LIGHTING FIXTURE SCHEDULE
total interior wattage per fixture: REFER TO LIGHTING FIXTURE SCHEDULE
total interior wattage specified vs allowed: 3255W SPECIFIED / 4513W ALLOWED
lowest source efficacy for all exterior lamps: 83.9 LUMENS/WATT

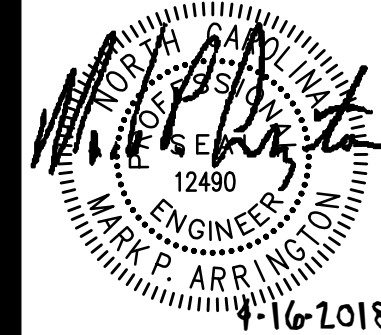
Additional Prescriptive Compliance

506.2.1 More Efficient Mechanical Equipment
 506.2.2 Reduced Lighting Power Density
 506.2.3 Energy Recovery Ventilation Systems
 506.2.4 Higher Efficiency Service Water Heating
 506.2.5 On-Site Supply of Renewable Energy
 506.2.6 Automatic Daylighting Control Systems

DESIGNER STATEMENT:
To the best of my knowledge and belief, the design of this building complies with the electrical system and equipment requirements of the North Carolina State Building Code, NC 2012 Energy Code.

SIGNED: Mark P. Arrington
NAME: MARK P. ARRINGTON
TITLE: ELECTRICAL ENGINEER

| LIGHTING FIXTURE SCHEDULE | | | | | | | | | | | | | | |
|---------------------------|--|-------|-------|------|---------|------|--------|-----------------|-------|----------|-----------------------------|-----|--|---|
| TYPE | DESCRIPTION | VOLT. | LAMPS | | | | | DRIVER/BALLASTS | WATTS | MOUNTING | MANUF. CATALOG NO. | | | |
| | | | QTY | TYPE | BULB | BASE | TEMP | | | | | CRI | LUMENS | |
| A1 | 2'x4' FLUORESCENT TROFFER, GRID TYPE FOR LAY-IN CEILING, 0.125" ACRYLIC PRISMATIC DIFFUSER, FLAT STEEL DOOR FRAME, WHITE FINISH. | 120 | 2 | F32 | T8 | G13 | 3500 K | 75 | 2850 | 1 | ELECTRONIC HPF, IS PARALLEL | 70 | CEILING, RECESSED | LITHONIA #2SP86 H.E. WILLIAMS 50524 SERIES. METALUX 20CB SERIES. |
| A2 | 2'x4' FLUORESCENT TROFFER, FLANGE TYPE FOR GYPSUMBOARD CEILING, 0.125" ACRYLIC PRISMATIC DIFFUSER, FLAT STEEL DOOR FRAME, WHITE FINISH. | 120 | 2 | F32 | T8 | G13 | 3500 K | 75 | 2850 | 1 | ELECTRONIC HPF, IS PARALLEL | 70 | CEILING, RECESSED | LITHONIA #2SP8F H.E. WILLIAMS 50524 SERIES. METALUX 2FCB SERIES. |
| A3 | 2'x4' FLUORESCENT TROFFER, GRID TYPE FOR LAY-IN CEILING, 0.125" ACRYLIC PRISMATIC DIFFUSER, FLAT STEEL DOOR FRAME, WHITE FINISH. TANDEM WIRED FIXTURE. REFER TO MASTER/SATELLITE CONFIGURATION DETAIL. | 120 | 3 | F32 | T8 | G13 | 3500 K | 75 | 2850 | 1 | ELECTRONIC HPF, RS SERIES | 105 | CEILING, RECESSED | LITHONIA #2SP8G H.E. WILLIAMS 50524 SERIES. METALUX 20CB SERIES. |
| B5 | 4' LONG BARE FLUORESCENT STRIP FIXTURE. STEEL HOUSING WITH WHITE ENAMEL FINISH AND ENDPLATES. PROVIDE WITH PROTECTIVE TUBE GUARDS. | 120 | 2 | F32 | T8 | G13 | 3500 K | 75 | 2850 | 1 | ELECTRONIC HPF, IS PARALLEL | 70 | SUSPENDED 10'-0" AFF OR SURFACE MOUNT IF CEILING IS PROVIDED OR UNLESS OTHERWISE NOTED | LITHONIA #C METALUX #55 H. E. WILLIAMS #76 SERIES |
| V1 | 4 FT. LONG ENCLOSED AND GASKETED INDUSTRIAL FLUORESCENT LUMINAIRE. UL LISTED FOR DAMP LOCATION. DEEP HIGH IMPACT ACRYLIC DIFFUSER. | 120 | 2 | F32 | T8 | G13 | 3500 K | 75 | 2850 | 1 | ELECTRONIC HPF, IS PARALLEL | 58 | CEILING, SURFACE | LITHONIA DMS-ARDP KENNALL #ES848/232 SERIES NULITE DM SERIES |
| WLE | DECORATIVE EXTERIOR WALL MOUNTED LED FIXTURE, HALF ROUND SHAPE DIE-CAST ALUMINUM HOUSING, ACRYLIC LENS, TWO LIGHT ENGINES (10 LED'S EACH), ELECTRONIC DRIVERS, WIDE DISTRIBUTION (SR2), UL LISTED FOR WET LOCATION. FINISH AS SELECTED BY ARCHITECT. PROVIDE WITH EMERGENCY BATTERY PACK FOR 90 MINUTE ILLUMINATION. | 120 | - | LED | - | - | 4000 K | 70 | 3944 | - | - | 47 | WALL SURFACE MTC HT AS DIRECTED BY ARCHITECT (MINIMUM 10'-0" (MAXIMUM 16'-0") | LITHONIA #WR LED SERIES OR APPROVED EQUAL |
| E | LED EMERGENCY LIGHTING UNIT, WITH SELF-CONTAINED NI-CAD BATTERY RESERVE, WHITE THERMOPLASTIC HOUSING, FOR WALL OR CEILING MOUNTING. CONNECT FIXTURE AHEAD OF ALL LOCAL AREA SWITCHING. FIXTURE SHALL NOT BE SWITCHED. | 120 | 2 | LED | LED | - | - | - | - | - | - | 3 | CEILING, SURFACE CEILING EXCEPT 8 FT. AFF. MAX. | LITHONIA #ELM2-LED-SD SERIES SEGRELLI #MLPLED-HO SERIES DUAL-LITE #L220 SERIES LIGHTALARMS #LCA-2LEDR SERIES |
| ES | EXIT SIGN, WHITE METAL HOUSING, UNIVERSAL MOUNTING, RED STENCIL FACE, QUANTITY OF FACES INDICATED BY SHADING ON SYMBOL, DIRECTIONAL ARROWS AS INDICATED, WITH SELF-CONTAINED BATTERY RESERVE. CONNECT FIXTURE AHEAD OF ALL LOCAL AREA SWITCHING. FIXTURE SHALL NOT BE SWITCHED. | 120 | - | LED | DIFFUSE | - | - | - | - | - | - | 5 | WALL OR CEILING AS INDICATED BY SYMBOL | LITHONIA #EM-S-W-3R-120/277-ELH-SD SURE-LITES #LPX7 LIGHTALARMS |



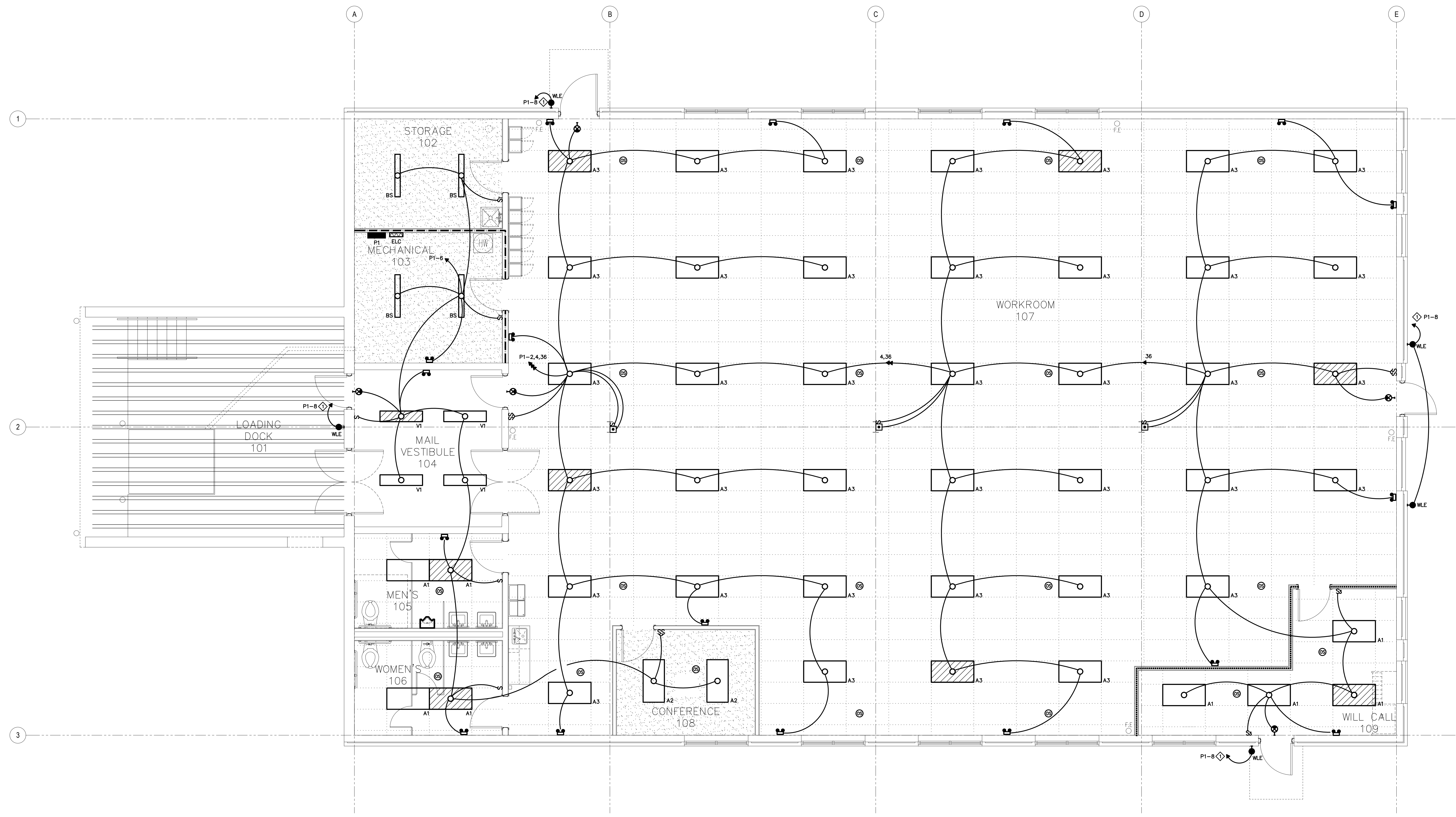
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INTERIOR UPFIT
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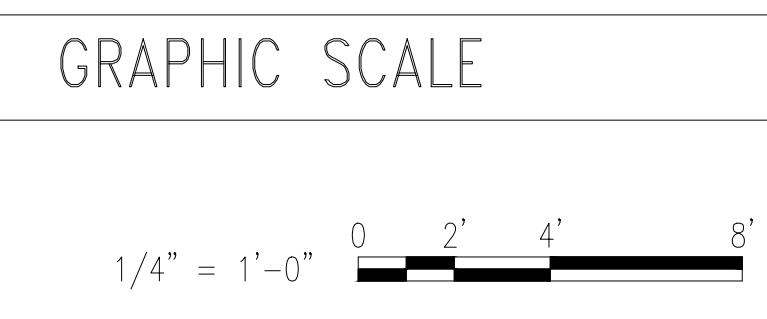
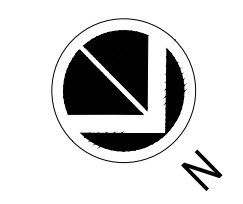


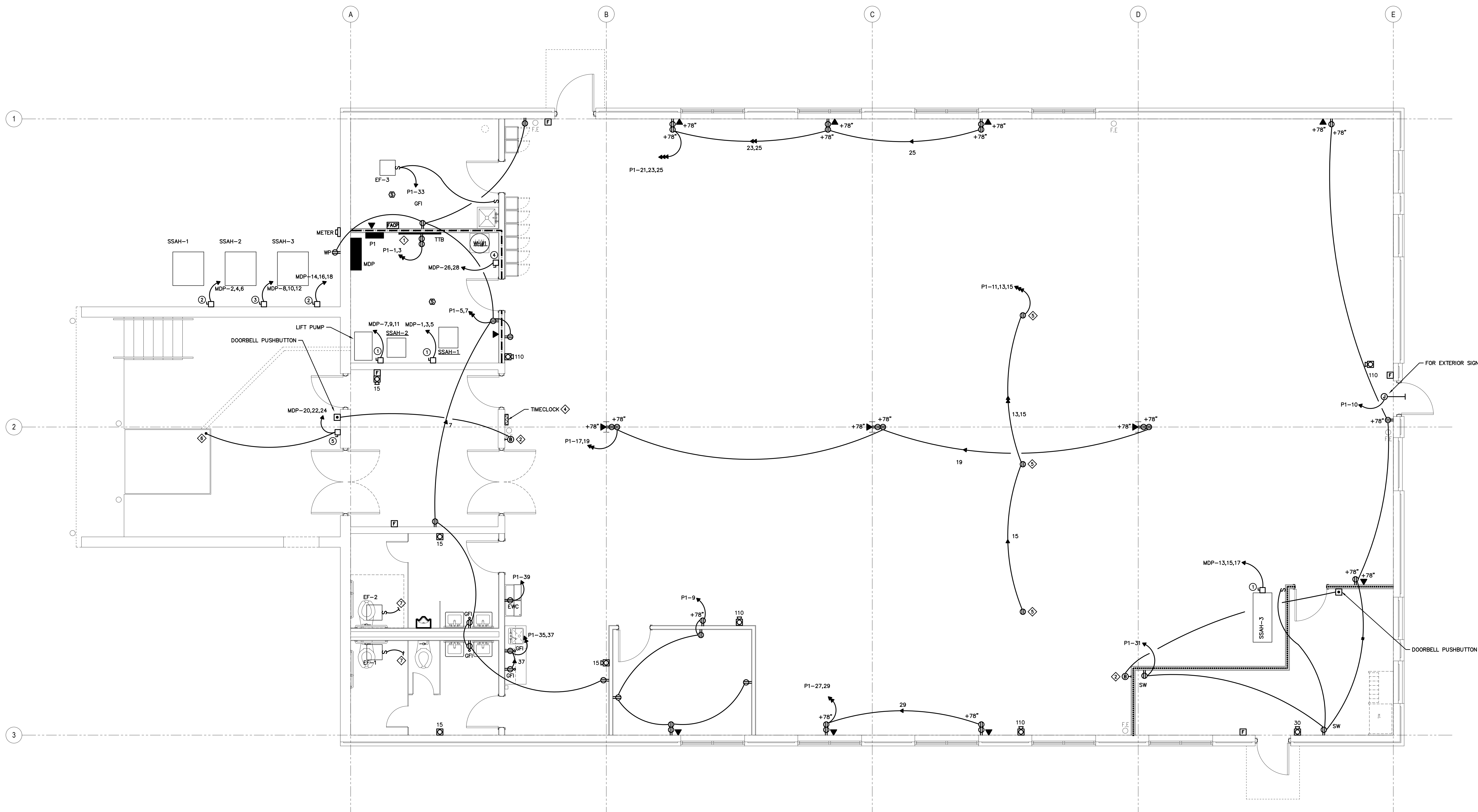
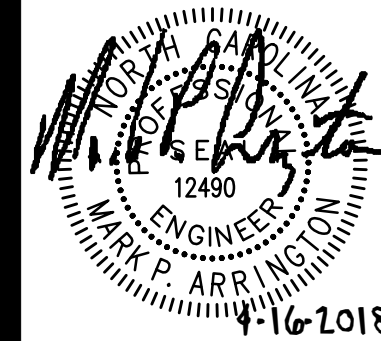
E1.1 Electrical Lighting Plan
Scale: As Indicated Date: 5/17/2018
Project: SPOUT SPRINGS INTERIOR UPFIT
USPS File Number: XXXXXX
USPS Project Number: 037932



1 ELECTRICAL LIGHTING PLAN
E1.1 SCALE: 1/4" = 1'-0"

NOTES:
◇ ROUTE VIA EXTERIOR LIGHTING CONTROL CABINET "ELC". REFER TO DETAIL FOR ADDITIONAL INFORMATION.





EQUIPMENT CONNECTION SCHEDULE

| SYM. | EQUIPMENT | LOAD | VOLT/ PHASE | DISCONNECT | | | | CONDUCTORS | RACEWAY | | NOTES |
|------|------------------------|---------------------|----------------|------------|--------|-------|-----------|------------|-------------|-----------|-------|
| | | | | TYPE | RATING | POLES | TRIP/FUSE | | ENCL. | TYPE | |
| ① | SSAH-1, SSAH-2, SSAH-3 | 10.8KW + 4.2FLA | 208/3 | NFDS | 60 | 3 | --- | 1 | 3#8, 1#10G | FMC 3/4" | |
| ② | SSHP-1, SSHP-3 | 11.6RLA + 74FLA | 208/3 | NFDS | 30 | 3 | --- | 3R | 3#10, 1#10G | LPMC 1/2" | |
| ③ | SSHP-2 | 14RLA + 93FLA | 208/3 | NFDS | 30 | 3 | --- | 3R | 3#10, 1#10G | LPMC 1/2" | |
| ④ | WH#1 | (2)2.5KW (NON. SIM) | 208/1 | NFDS | 30 | 2 | --- | 1 | 2#12, 1#12G | FMC 1/2" | |
| ⑤ | SCISSOR LIFT | ~17A | 208/3 | NFDS | 30 | 3 | --- | 3R | 3#10, 1#10G | LPMC 1/2" | |

| LEGEND | | DISCONNECT ENCLOSURE TYPES | | RACEWAY TYPES | | STARTER TYPES | |
|---|---|----------------------------|------------------------|----------------------------------|--|---|--|
| ETCB = ELECTRONIC-TRIP CIRCUIT BREAKER | FDS = FUSIBLE DISCONNECT SWITCH | 1 = NEMA 1 ENCLOSURE | 3R = NEMA 3R ENCLOSURE | EMT = ELECTRIC METALLIC TUBING | FMC = FLEXIBLE METAL CONDUIT | CFNR = COMBINATION FULL VOLTAGE, NONREVERSING | |
| MCP = MOTOR CIRCUIT PROTECTOR | NFDS = NON-FUSIBLE DISCONNECT SWITCH | 4 = NEMA 4 ENCLOSURE | 4X = NEMA 4X ENCLOSURE | IMC = INTERMEDIATE METAL CONDUIT | LPMC = LIQUID-TIGHT FLEXIBLE METAL CONDUIT | CT50 = 50 VA CONTROL TRANSFORMER | |
| ST/DS = COMBINATION STARTER/DISCONNECT SWITCH | TMCB = THERMAL-MAGNETIC CIRCUIT BREAKER | FPN = FUSE PER NAMEPLATE | | PVC = NON-METALLIC PVC CONDUIT | RMC = RIGID METAL CONDUIT | | |
| TOG = HP RATED TOGGLE SWITCH | | | | | | | |

NOTES
ALL ELECTRICAL CHARACTERISTICS SCHEDULED ABOVE ARE BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. ELECTRICAL CONTRACTOR SHALL VERIFY ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT WITH EQUIPMENT SUPPLIER(S) PRIOR TO ROUGHING, AND SHALL VERIFY EXACT LOCATION AND EXACT TYPE OF CONNECTION. ALL EQUIPMENT SHALL BE PROPERLY AND SECURELY GROUNDED. ANY SIGNIFICANT CHANGES IN LOCATION, ELECTRICAL REQUIREMENTS, OR TYPE OF CONNECTION REQUIRED FOR ANY EQUIPMENT SCHEDULED ABOVE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING PRIOR TO PROCEEDING.
CONDUCTORS AND RACEWAY SPECIFIED IN THE ABOVE SCHEDULE ARE FOR FINAL CONNECTION TO UNIT AND SHALL BE EXTENDED FROM THE DISCONNECT SHOWN ON THE FLOOR PLANS TO THE EQUIPMENT TERMINATION BOX.
CONDUIT AND BOXES REQUIRED FOR EQUIPMENT CONNECTIONS SHALL BE INSTALLED IN SUCH A WAY AS TO NOT COVER UP EQUIPMENT NAMEPLATES, SERVICE AREAS, AIR FLOW AREAS, ETC.

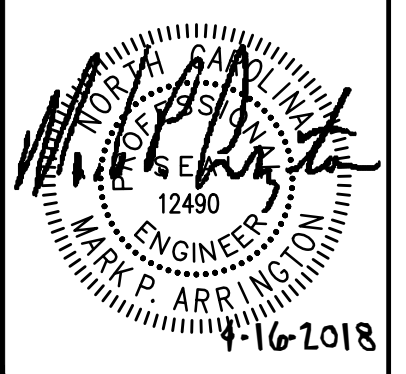
1 FLOOR PLAN - POWER

E2.1 SCALE: 1/8" = 1'-0"

- NOTES:**
- ◇ PROVIDE 3/4" THICK FIRE RATED PLYWOOD BACKBOARD FOR TELECOMMUNICATIONS EQUIPMENT. ALLOW SPACE ON BACKBOARD FOR MAIN CROSS-CONNECT, TELEPHONE COMPANY ELECTRICAL PROTECTION AND DEMARCATION EQUIPMENT AND USPS TELEPHONE EQUIPMENT. USPS TELEPHONE SYSTEM REQUIRES 42"x42" CLEAR SPACE ON BACKBOARD. FOR MAIN CROSS-CONNECT COORDINATE SERVICE ENTRANCE WITH USPS & LOCAL TELEPHONE COMPANY PRIOR TO INSTALLATION. REFER TO MAIN CROSS-CONNECT DETAIL FOR ADDITIONAL INFORMATION. PROVIDE MINIMUM 12" CLEARANCE TO ELECTRICAL POWER DISTRIBUTION COMPONENTS (PANELBOARDS AND SWITCHES). PROVIDE MINIMUM 48" CLEARANCE TO MOTORS.
 - ◇ PROVIDE DOOR BELL SYSTEMS AT WILL CALL & MAIL VESTIBULE. PROVIDE JUNCTION BOX AT EACH AND CONNECT POWER FROM NEAREST RECEPTACLE CIRCUIT. SET BELL AT MAIL VESTIBULE DOOR TO SINGLE-CHIME. SET BELL AT WILL CALL DOOR TO DOUBLE-CHIME.
 - ◇ PROVIDE CIRCUITING FOR EXTERIOR SIGNAGE. PROVIDE JUNCTION BOX TIGHT TO STRUCTURE. PROVIDE (1) 3/4"C TO BUILDING EXTERIOR AND (1) 3/4"C TO PHOTOCELL. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
 - ◇ APPROXIMATE LOCATION FOR TIME CLOCK. CONNECT TO NEAREST RECEPTACLE CIRCUIT. MAKE ALL FINAL CONNECTIONS.
 - ◇ PROVIDE RECEPTACLE FOR TWIST-LOCK DROP CORDS. DROP CORDS HAVE STRAIN RELIEF. CIRCUIT AS SPECIFIED. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
 - ◇ PROVIDE NON-FUSED DISCONNECT SWITCH FOR CONNECTION TO EXTERIOR SCISSOR LIFT. CIRCUIT AS SHOWN. PROVIDE CONNECTION FROM DISCONNECT TO LIFT CONTROLLER IN LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT (LFMC). EC SHALL COORDINATE WITH EQUIPMENT SUPPLIER TO ENSURE PROPER OPERATION AT 208V, 3 PHASE. INFORMATION ONLY: THE LIFT REMOTE CONTROL SWITCH WILL BE KEPT IN VESTIBULE AND WILL BE PLUGGED INTO THE LIFT TO RAISE/LOWER AS REQUIRED AND RETURNED TO VESTIBULE.
 - ◇ CONNECT TO LIGHTING CIRCUIT IN THIS AREA WITH 2#12, 1#12G, 1/2"C. FAN SHALL RUN WHEN LIGHTS ARE ON.

H. M. CAGLE DRIVE

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WARD · GRIFFIN
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17-130



P1-12

INTERNALLY ILLUMINATED MONUMENT SIGN,
COORDINATE EXACT LOCATION WITH USPS
AND SIGN INSTALLER

PROPOSED
6,000 SQFT
POSTAL FACILITY

(2)4" FOR TELECOMMUNICATIONS SERVICE

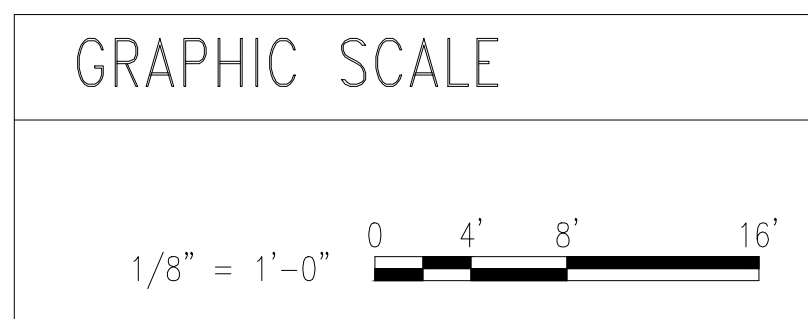
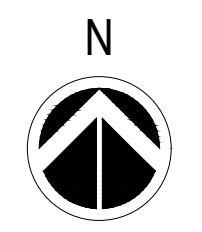
SERVICE PANEL MDP

UNDERGROUND SERVICE LINE

UTILITY PNT

1 ELECTRICAL SITE PLAN
E.3.1 SCALE: 1/8" = 1'-0"

NOTES:
◇ ROUTE VIA EXTERIOR LIGHTING CONTROL CABINET "ELC". REFER TO DETAIL FOR ADDITIONAL INFORMATION.



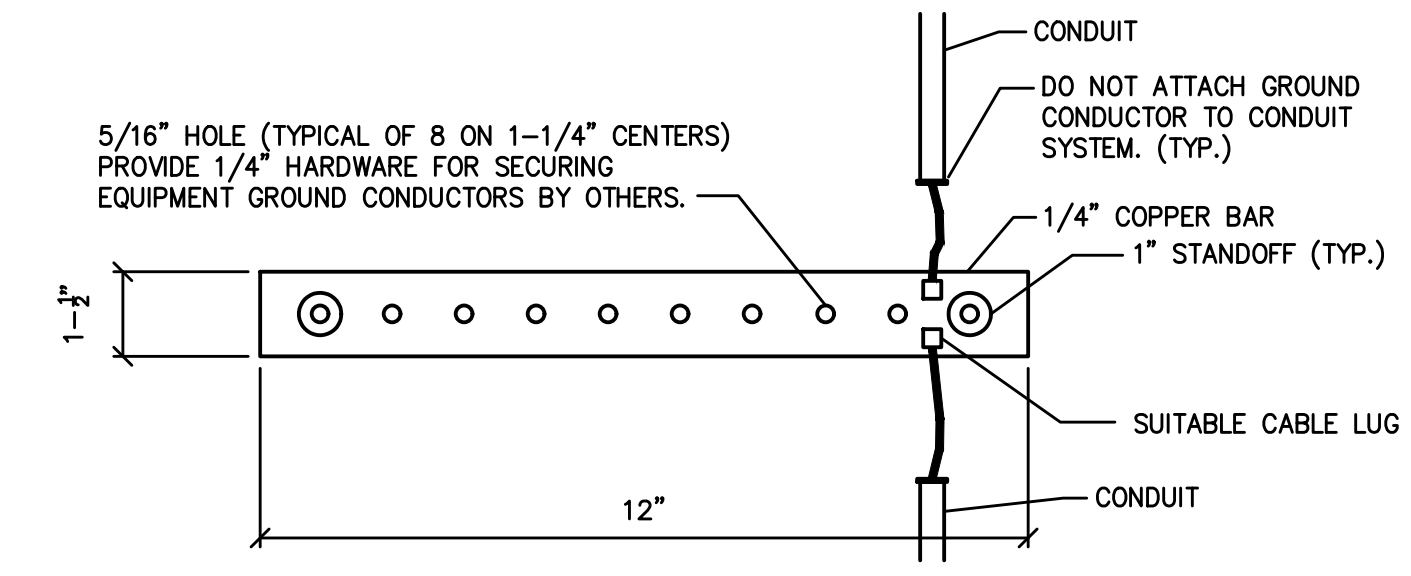
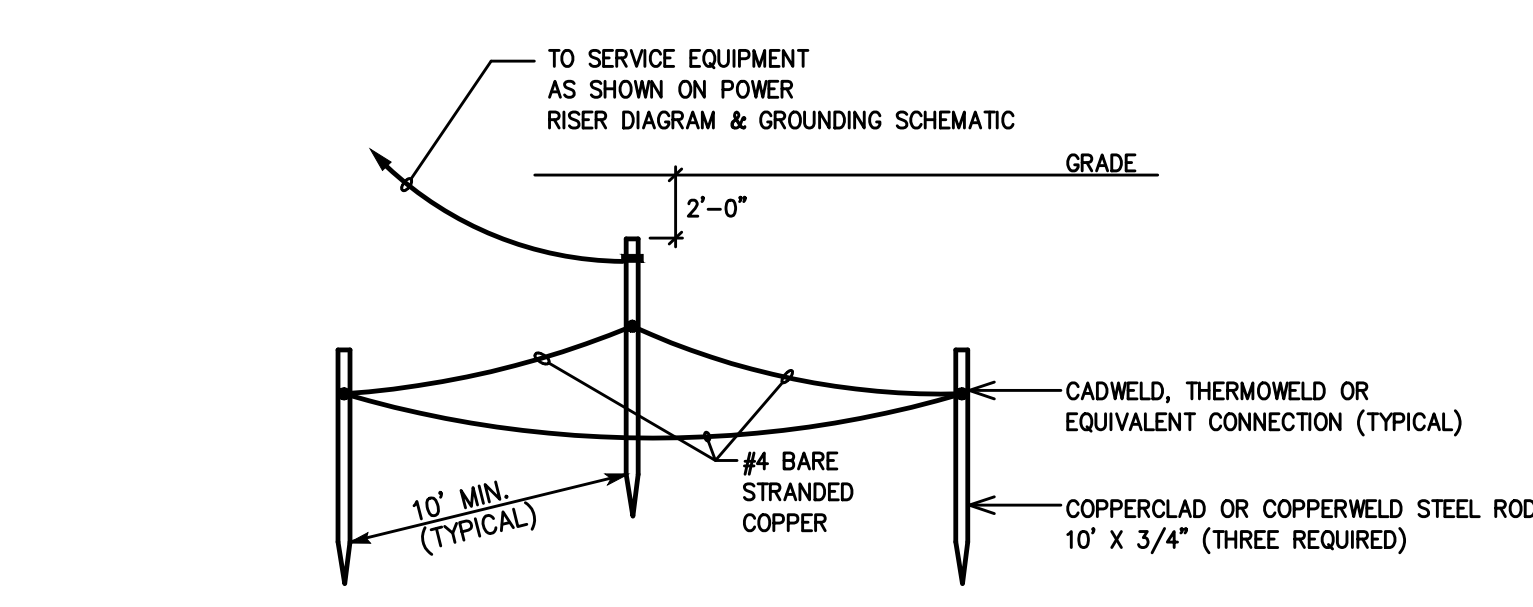
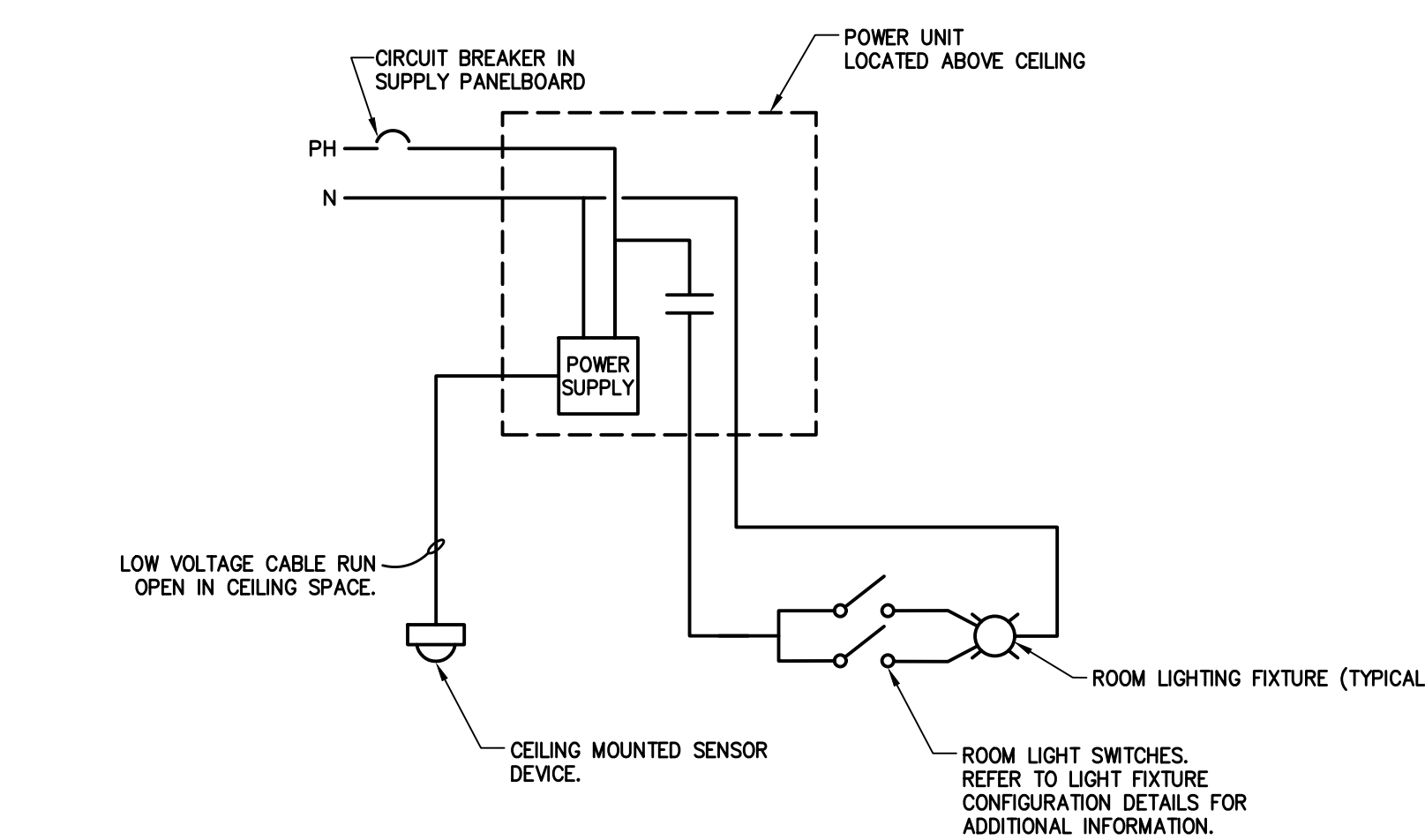
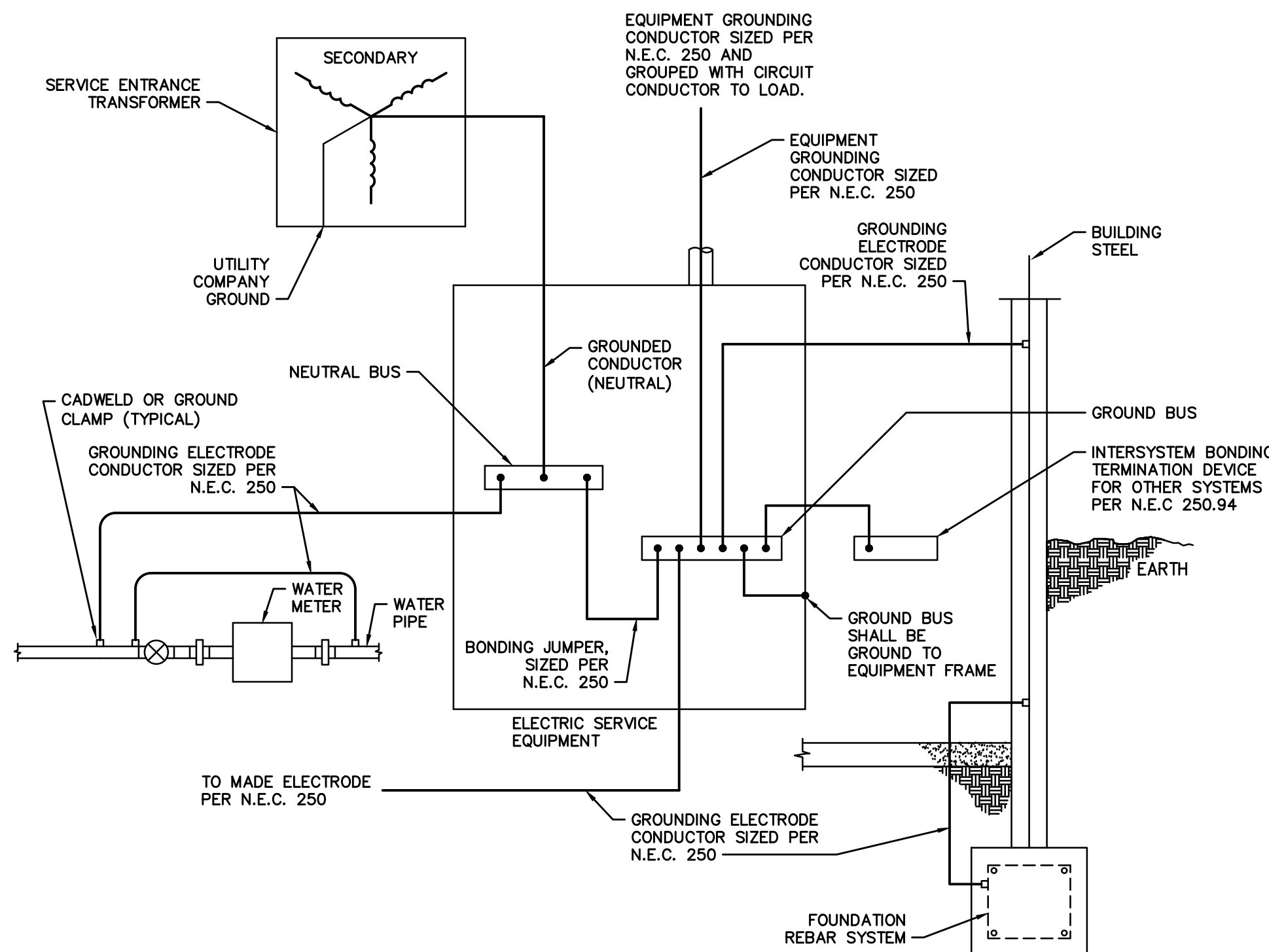
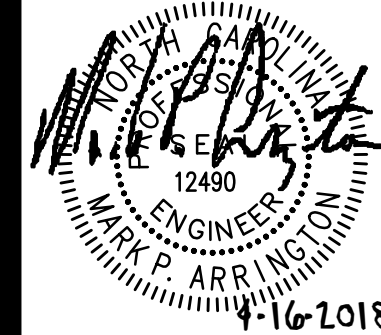
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INTERIOR UPFIT
USPS SPOUT SPRINGS NC CAX
XXXXXXXXXX
XXXXXXXXXX



E3.1 Electrical Site Plan
Scale: As Indicated Date: 5/17/2018
Project: SPOUT SPRINGS INTERIOR UPFIT
USPS File Number: XXXXXX
USPS Project Number: 027932

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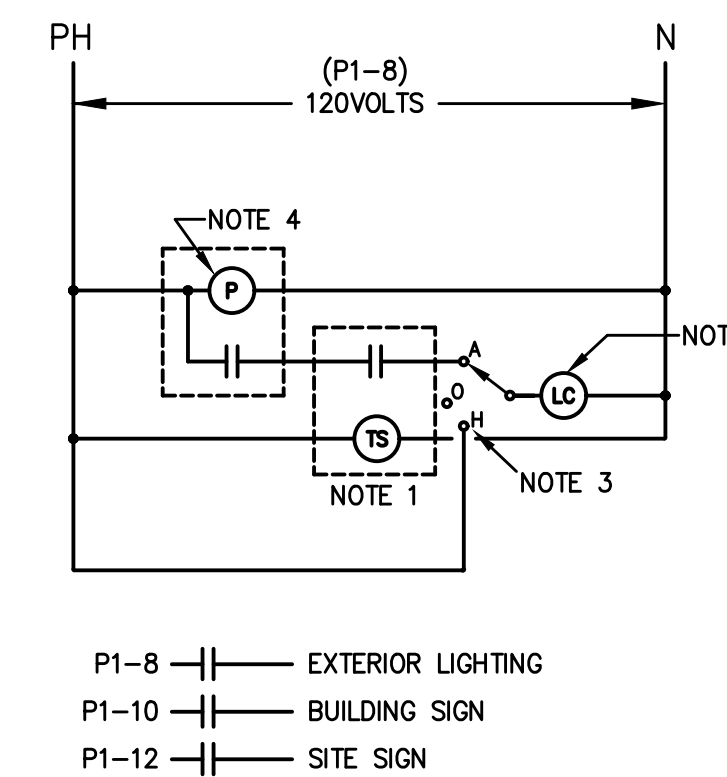


1 GROUNDING CONNECTION DIAGRAM
E4.1 NOT TO SCALE

2 DETAIL - OCCUPANCY SENSOR CONTROL
E4.1 NOT TO SCALE

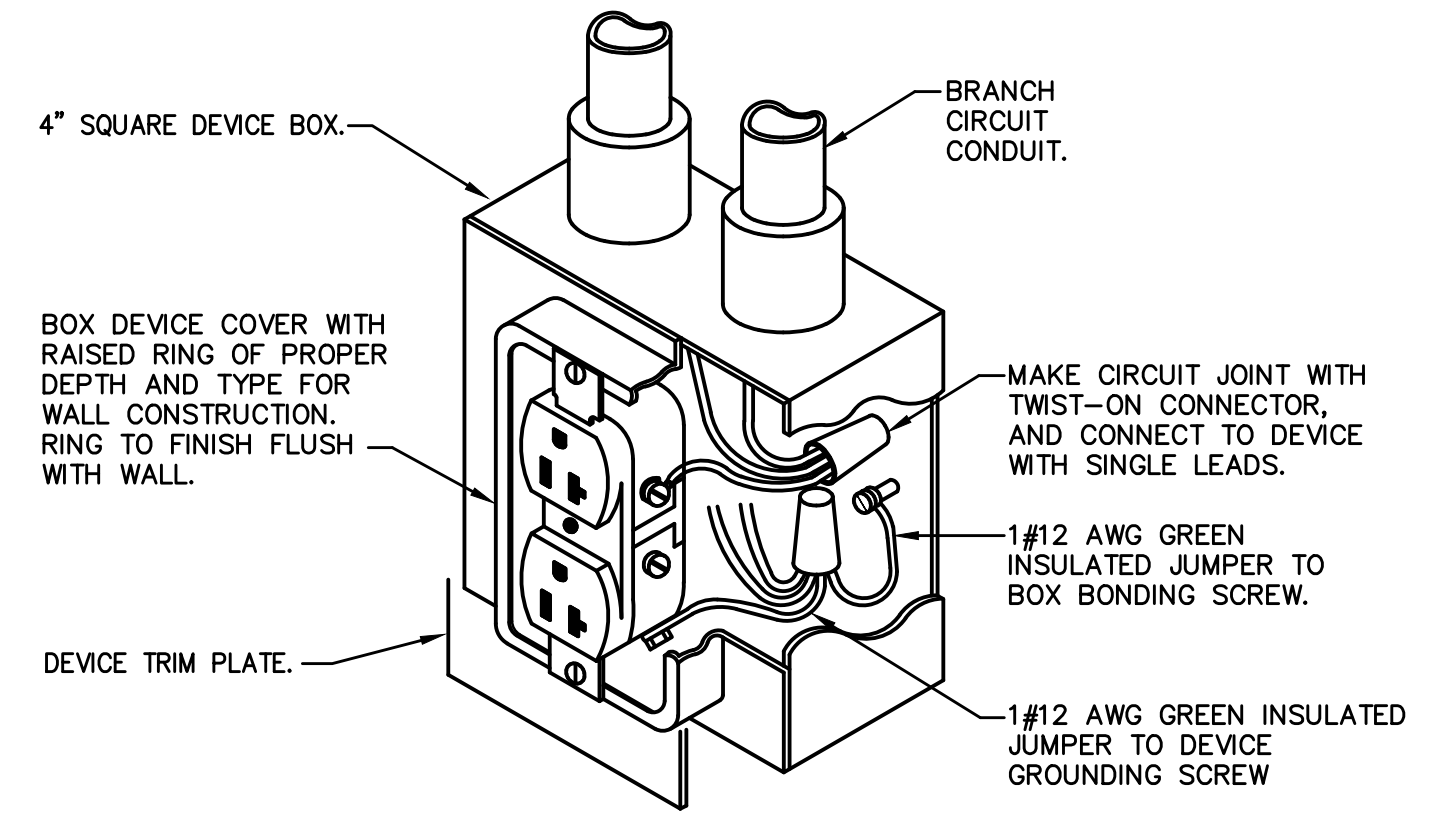
3 DETAIL - TYPICAL MADE GROUNDING ELECTRODE
E4.1 NOT TO SCALE

4 GROUND BAR DETAILS
E4.1 NOT TO SCALE

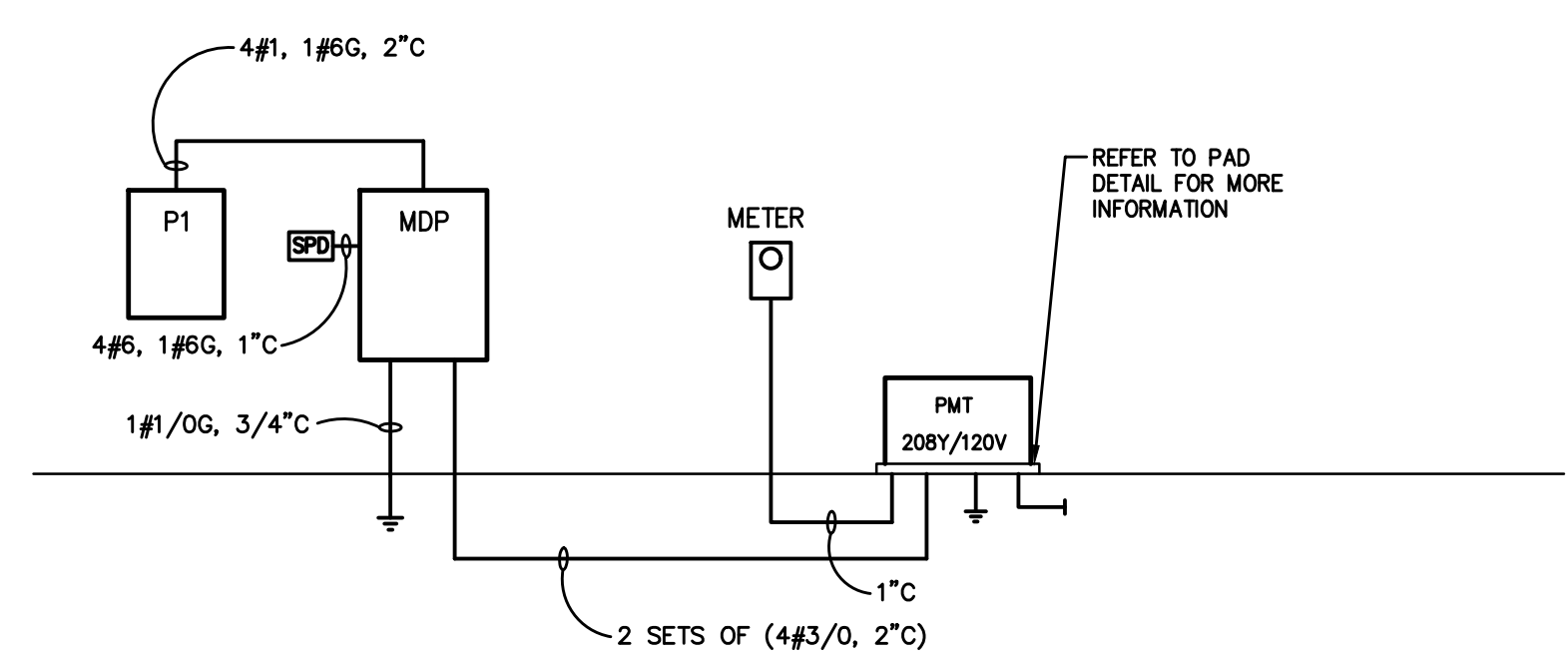


NOTES:
1. DIGITAL TIME SWITCH. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. ELECTRICALLY HELD LIGHTING CONTACTOR WITH 20A BALLAST RATED CONTACTS. CONTACTOR SHALL BE OPEN TYPE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. HAND-OFF-AUTOMATIC SELECTOR SWITCH. SWITCH SHALL BE HEAVY-DUTY, OIL TIGHT, MAINTAINED CONTACT TYPE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. PHOTOCELL CONTROL DEVICE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. MOUNT TIME SWITCH AND CONTACTOR IN 18" x 18" x 6" DEEP NEMA 1 ENCLOSURE WITH HINGED DOOR. MOUNT SELECTOR SWITCH ON DOOR. PROVIDE PERMANENT NAMEPLATE ON DOOR TO READ: "EXTERIOR LIGHTING CONTROL."

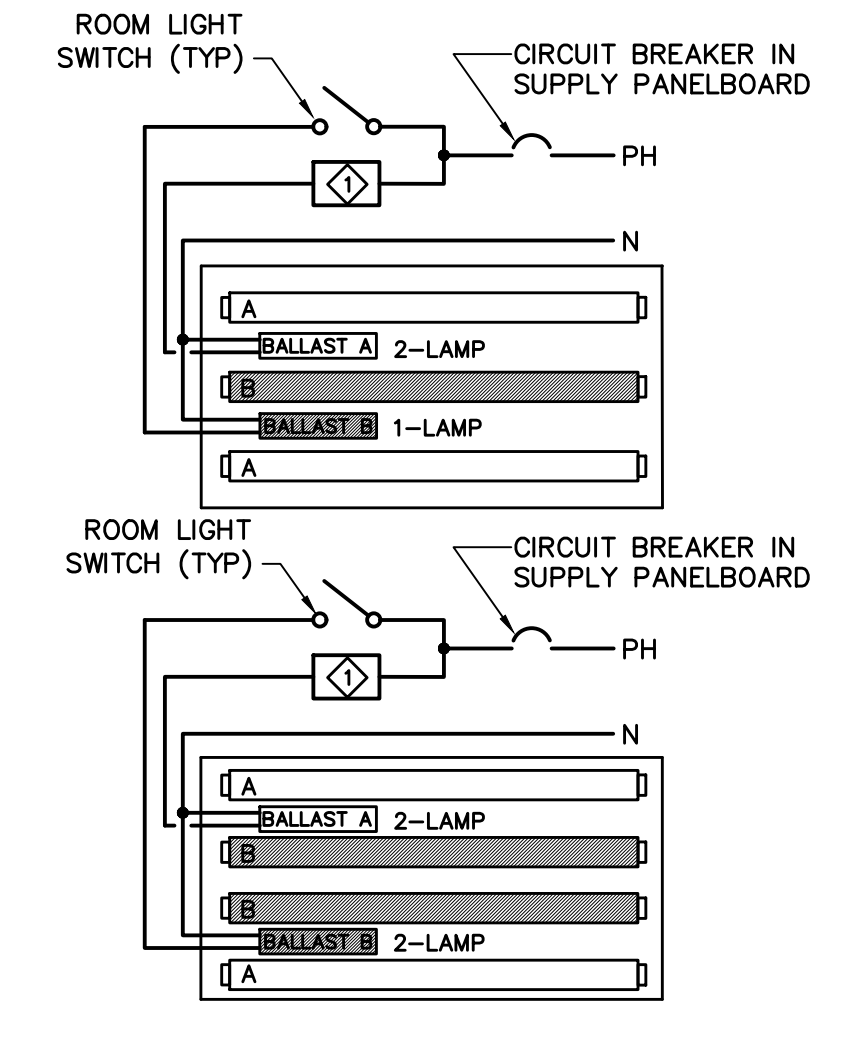
5 EXTERIOR LIGHTING CONTROL DIAGRAM-ELC
E4.1 NO SCALE



6 DETAIL - TYPICAL DUPLEX RECEPTACLE INSTALLATION
E4.1 NOT TO SCALE



7 POWER RISER DIAGRAM
E4.1 SCALE: NOT TO SCALE

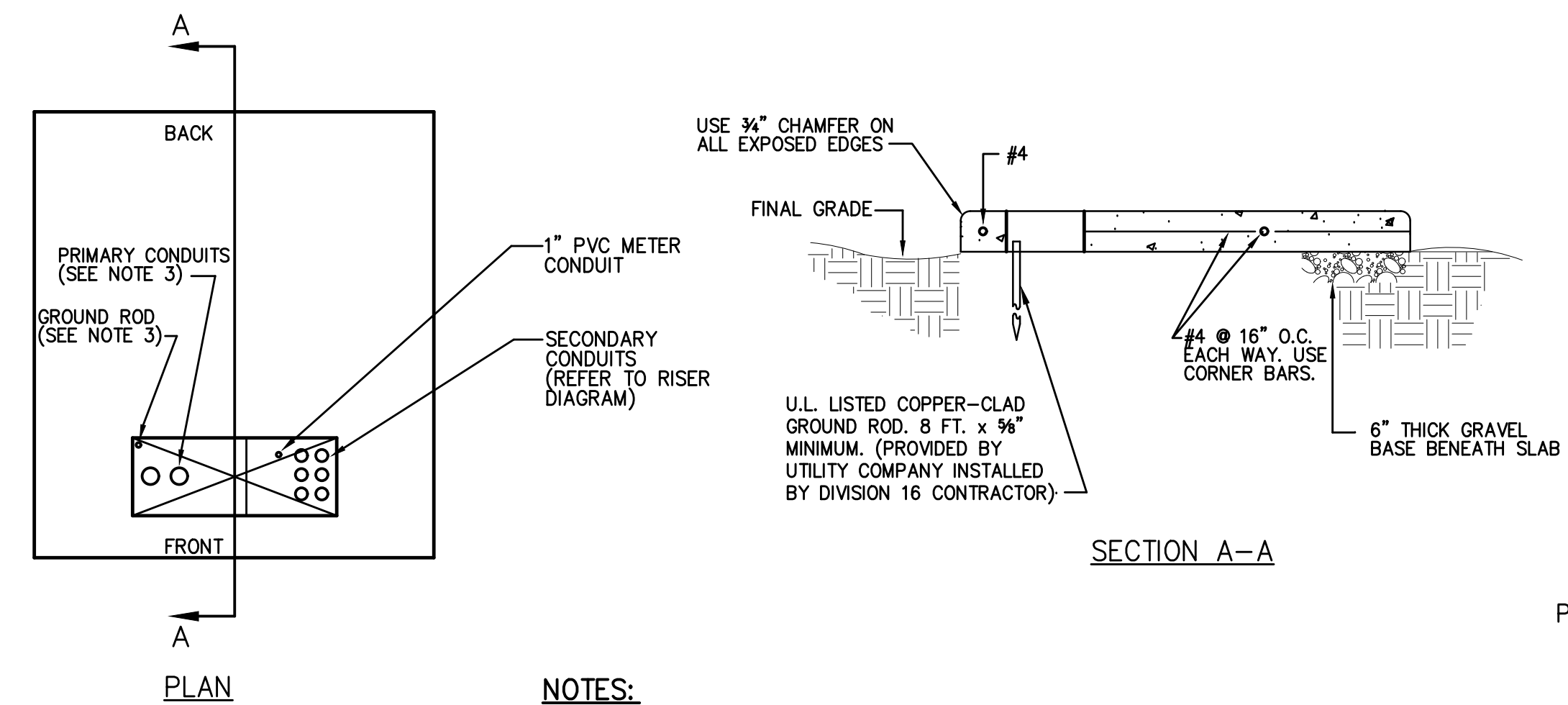


8 DETAIL - MULTI-LEVEL SWITCHING LIGHT FIXTURE CONFIGURATION
E4.1 NOT TO SCALE

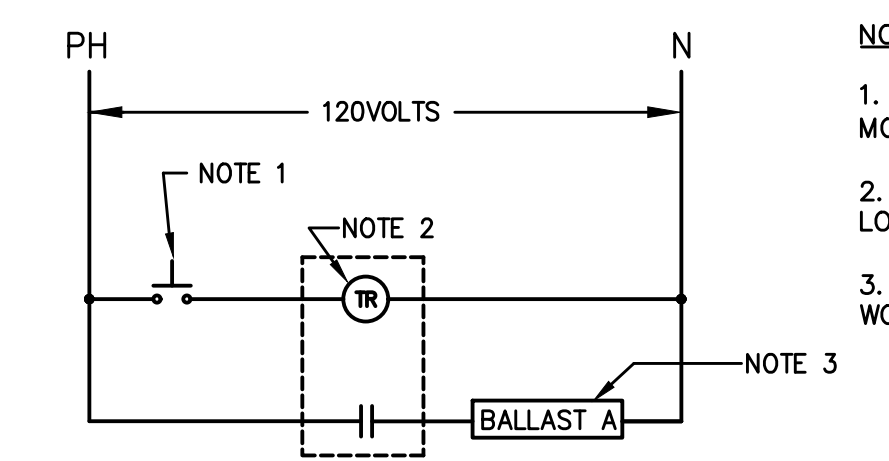
NOTES:
IN CONFERENCE ROOM, BALLAST A WILL BE CONTROLLED BY WALL LIGHT SWITCH. IN WORKROOM BALLAST A WILL BE CONTROLLED BY 3 HOUR TIMER RELAY. REFER TO WORKROOM LIGHTING CONTROL DIAGRAM FOR ADDITIONAL INFORMATION.

| PANELBOARD: MDP | | GROUND BUS | | SC RATING: 22 KAMPS RMS SYMM. | | |
|---------------------------|-----------|--------------------|----------------------|-------------------------------|------|------------------|
| SERVICE: 208Y/120V 3PH 4W | | MOUNTING: SURFACE | | ENCLOSURE: NEMA 1 | | |
| MANS: 400 AMP MCB | | TYPE: DISTRIBUTION | | | | |
| LOAD DESCRIPTION | WIRE | BKR | CONNECTED LOAD (KVA) | BKR | WIRE | LOAD DESCRIPTION |
| SSHP-1 | 8 / 45/3 | 1A | 4.1 | 2A | 25/3 | SSHP-1 |
| | 8 / 3B | | 1.8 | 4B | / | |
| | 8 / 5C | | 4.1 | 6C | / | |
| | 8 / 3A | | 2.2 | 8A | 30/3 | SSHP-2 |
| | 8 / 9B | | 4.1 | 10B | / | |
| | 8 / 11C | | 2.2 | 12C | / | |
| | 8 / 13A | | 4.1 | 14A | 25/3 | SSHP-3 |
| | 8 / 15B | | 1.8 | 16B | / | |
| | 8 / 17C | | 4.1 | 18C | / | |
| PANEL P1 | 1 / 125/3 | 19A | 10.0 | 20A | 30/3 | SCISSOR LIFT |
| | 1 / 21B | | 10.7 | 22B | / | |
| | 1 / 23C | | 8.7 | 24C | / | |
| SPACE ONLY | / 3 | 25A | | 26A | 20/2 | WH#1 |
| | / 27B | | 0.0 | 28B | / | |
| | / 29C | | 1.3 | 30C | / | |
| SPACE ONLY | / 31A | | 0.0 | 32A | /3 | SPACE ONLY |
| | / 33B | | 0.0 | 34B | / | |
| | / 35C | | 0.0 | 36C | / | |
| SPD | 6 / 60/3 | 37A | 0.0 | 38A | /3 | SPACE ONLY |
| | 6 / 39B | | 0.0 | 40B | / | |
| | 6 / 41C | | 0.0 | 42C | / | |
| | | | 29.4 | 31.4 | 32.2 | 29.9 |

| PANELBOARD: P1 | | GROUND BUS | | SC RATING: 22 KAMPS RMS SYMM. | | |
|---------------------------|-----------|-------------------|----------------------|-------------------------------|------|--------------------|
| SERVICE: 208Y/120V 3PH 4W | | MOUNTING: SURFACE | | ENCLOSURE: NEMA 1 | | |
| MANS: 225 AMP MLD | | TYPE: BRANCH | | | | |
| LOAD DESCRIPTION | WIRE | BKR | CONNECTED LOAD (KVA) | BKR | WIRE | LOAD DESCRIPTION |
| TTB | 12 / 20/1 | 1A | 1.5 | 2A | 20/1 | LTG: WORKROOM |
| | 12 / 3B | | 1.5 | 4B | 20/1 | LTG: WORKROOM |
| REC: MECH | 12 / 20/1 | 5C | 0.9 | 6C | 20/1 | LTG: GENERAL |
| REC: GENERAL | 12 / 20/1 | 7A | 0.7 | 8A | 20/1 | LTG: EXTERIOR |
| REC: OFFICE | 12 / 20/1 | 9B | 1.0 | 10B | 20/1 | LTG: SIGN |
| CEILING REC: WORKROOM | 12 / 20/1 | 11C | 0.6 | 12C | 20/1 | FUTURE LIGHTING |
| CEILING REC: WORKROOM | 12 / 20/1 | 13A | 0.6 | 14A | 20/1 | FUTURE RECEPTACLES |
| REC: COLUMNS | 12 / 20/1 | 17C | 0.5 | 18B | 20/1 | FUTURE RECEPTACLES |
| REC: COLUMNS | 12 / 20/1 | 19A | 0.4 | 19C | 20/1 | FUTURE RECEPTACLES |
| REC: WORKROOM | 12 / 20/1 | 21B | 0.6 | 22B | 20/1 | FUTURE RECEPTACLES |
| REC: WORKROOM | 12 / 20/1 | 23C | 0.6 | 24C | 20/1 | FUTURE RECEPTACLES |
| REC: WORKROOM | 12 / 20/1 | 25A | 0.6 | 26A | 20/1 | FUTURE RECEPTACLES |
| REC: WORKROOM | 12 / 20/1 | 27B | 0.6 | 28B | 20/1 | FUTURE RECEPTACLES |
| REC: WORKROOM | 12 / 20/1 | 29C | 0.9 | 30C | 20/1 | FUTURE RECEPTACLES |
| REC: SWITCHED | 12 / 20/1 | 31A | 0.9 | 32A | 20/1 | FUTURE RECEPTACLES |
| EF-1, EF-2, EF-3 | 12 / 20/1 | 33B | 1.0 | 34B | 20/1 | FACP |
| REC: BREAK | 12 / 20/1 | 35C | 0.2 | 36C | 20/1 | SPARE |
| REC: BREAK | 12 / 20/1 | 37A | 0.2 | 38A | 20/1 | SPARE |
| EW | 12 / 20/1 | 39B | 1.2 | 40B | 20/1 | SPARE |
| SPARE | 20/1 | 41C | 0.0 | 42C | 20/1 | SPARE |
| SPARE | 20/1 | 43A | 0.0 | 44A | /3 | SPACE ONLY |
| SPARE | 20/1 | 45B | 0.0 | 46B | / | SPACE ONLY |
| SPARE | 20/1 | 47C | 0.0 | 48C | / | SPACE ONLY |
| SPACE ONLY | / 3 | 49A | 0.0 | 50A | /3 | SPACE ONLY |
| | / 51B | | 0.0 | 52B | / | |
| | / 53C | | 0.0 | 54C | / | |
| | | | 30.1 | 10.1 | 11.6 | 8.4 |

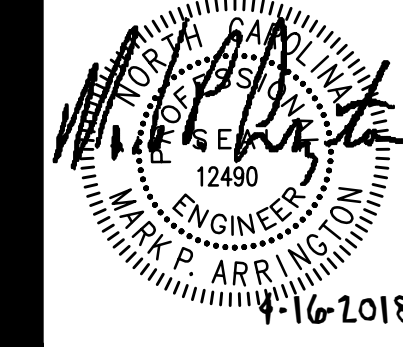


9 DETAIL - TRANSFORMER CONCRETE PAD
E4.1 SCALE: NOT TO SCALE



10 WORKROOM LIGHTING CONTROL DIAGRAM
E4.1 NO SCALE

NOTES:
1. ILLUMINATED RED MUSHROOM MOMENTARY PUSHBUTTON. MOUNT IN 4\"/>

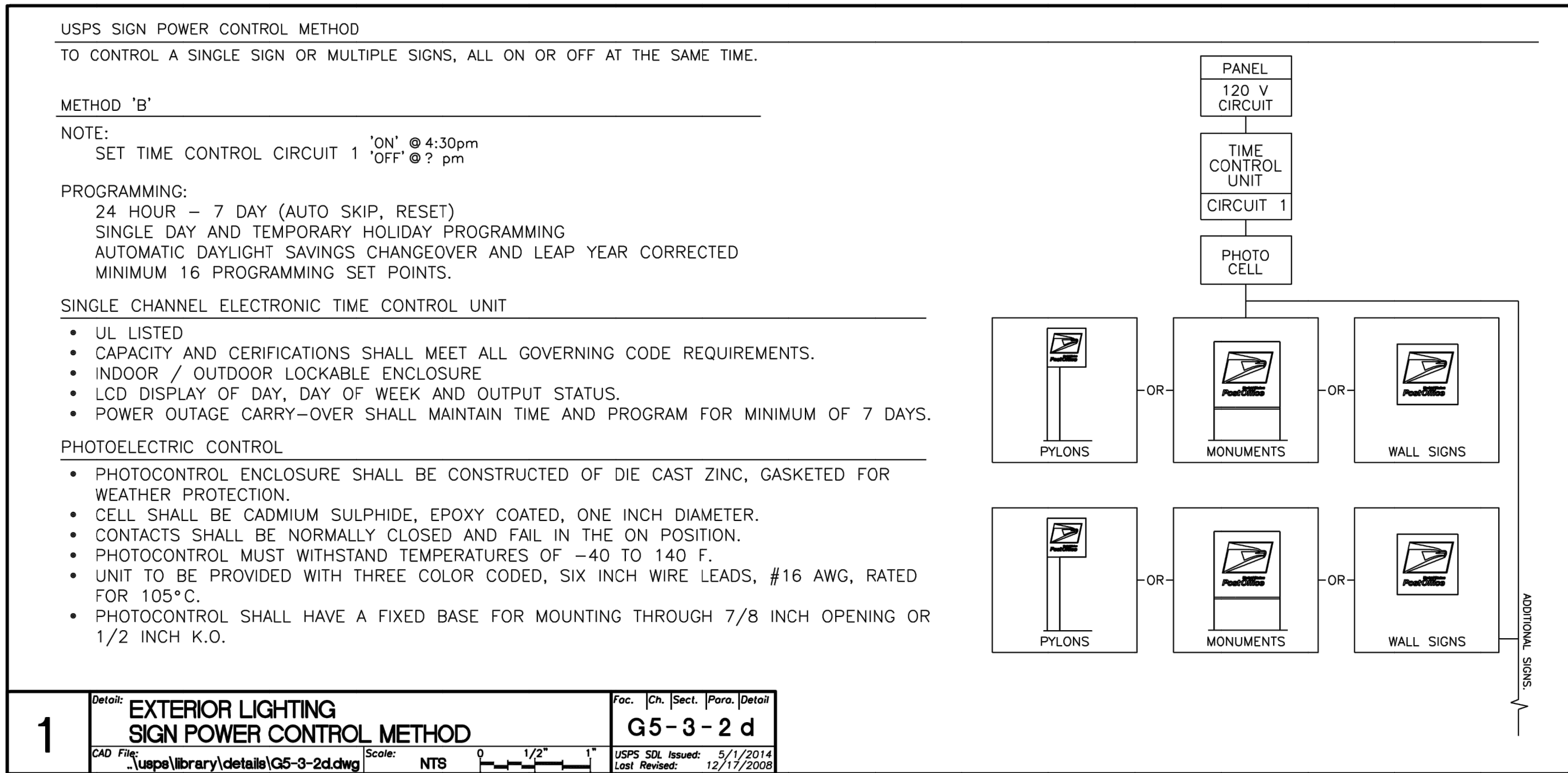


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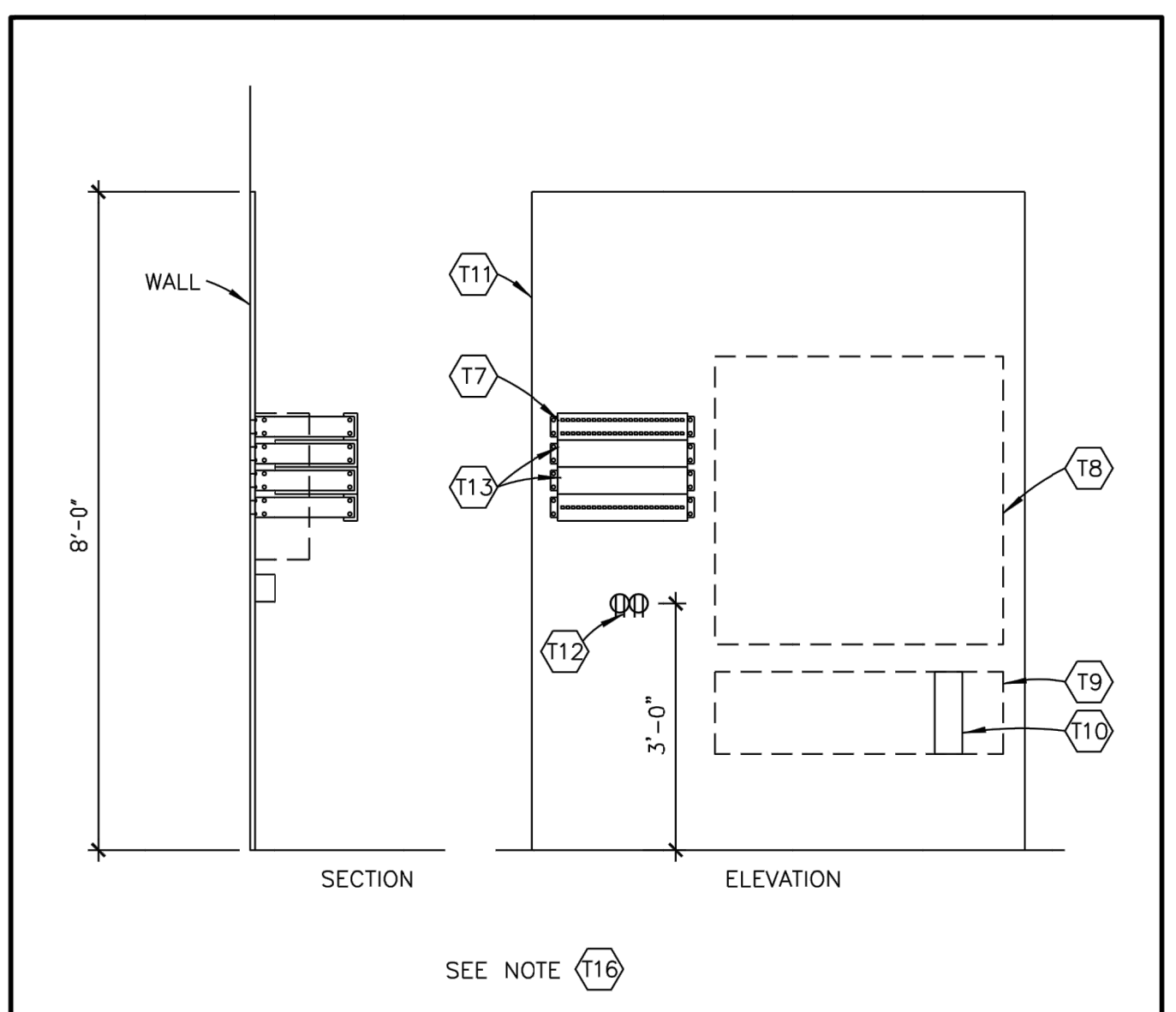
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INTERIOR UPTT
USPS SPOUT SPRINGS NC CAX
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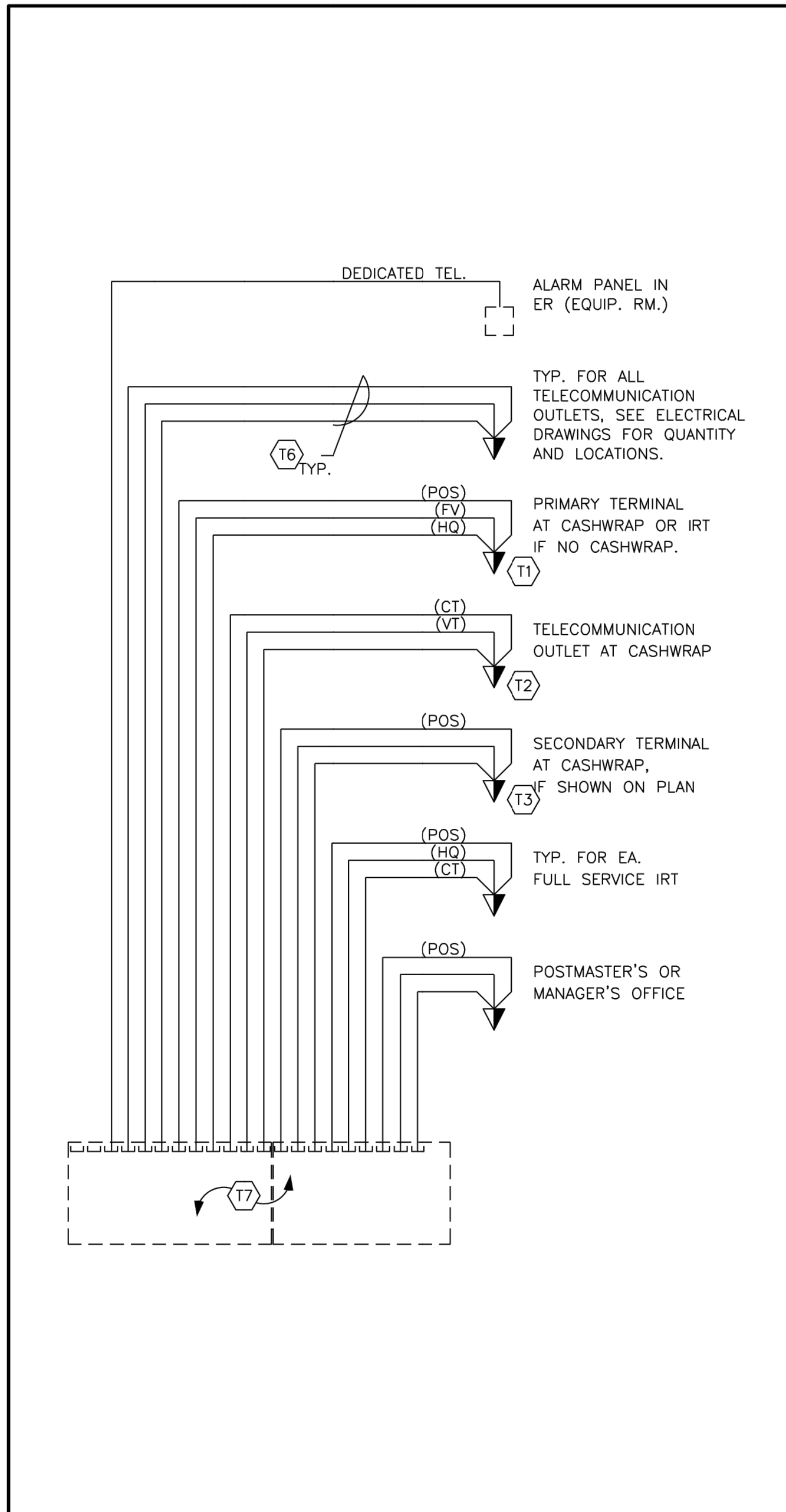
1 EXTERIOR LIGHTING SIGN POWER CONTROL METHOD G5-3-2 d
Scale: NTS 0 1/2" 1"
USPS S&L Issued: 5/1/2014
Last Revised: 12/11/2005



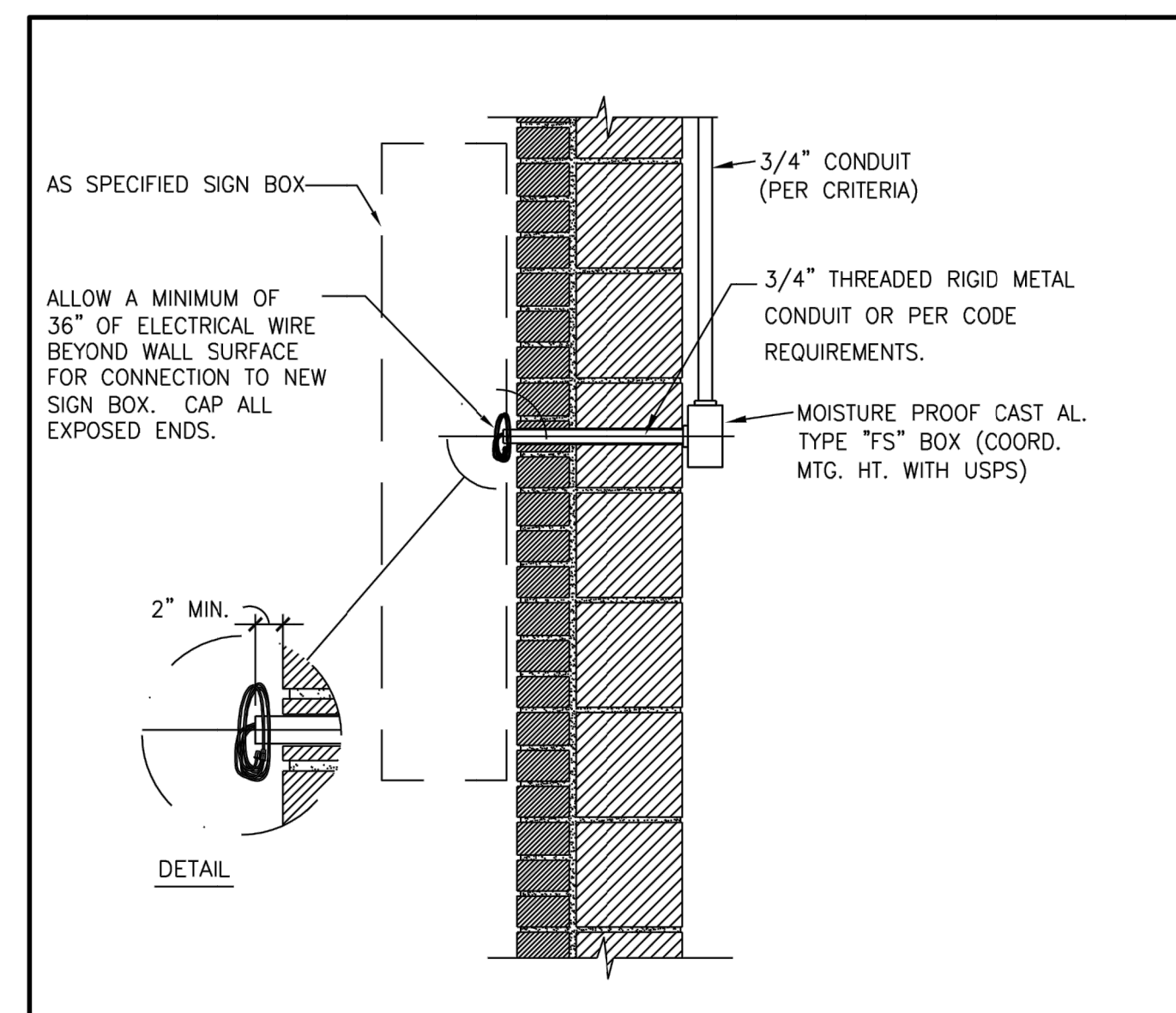
2 COMMUNICATIONS - WALL MOUNTED MC AND TEL EQUIPMENT DETAIL G5-4-0 d
Scale: NTS 0 1/2" 1"
USPS S&L Issued: 5/1/2014
Last Revised: 3/11/2005

- (T1) TELECOMMUNICATION OUTLET (T.O.) FOR POS NETWORK (POS), FUTURE VENDING POLLING (FV), AND DEDICATED HEADQUARTERS TELEPHONE (HD).
- (T2) TELECOMMUNICATION OUTLET (T.O.) FOR CREDIT TELEPHONE (CT) & VOICE TELEPHONE (VT), AND ONE FUTURE.
- (T3) TELECOMMUNICATION OUTLET (T.O.) FOR POS NETWORK (POS), AND TWO FUTURE.
- (T4) NOT USED.
- (T5) NOT USED.
- (T6) ONE FLEXIBLE CONDUIT WITH HOME RUN OF (3) TELECOMMUNICATION WIRES PER TELECOMMUNICATION OUTLET. ROUTE CONDUIT UP THROUGH WALL AND STUB ABOVE CEILING.
- (T7) PATCH PANEL FOR TELECOMMUNICATION TERMINATION, WALL MOUNTED.
- (T8) WALL MOUNTED TELEPHONE EQUIPMENT (PROVIDED BY USPS, REQUIRES 42"x42" CLEAR SPACE).
- (T9) TELEPHONE COMPANY DEMARCATION, WALL MOUNTED.
- (T10) 24 PORT RJ-11 MODULAR 66 BLOCK FOR TELEPHONE COMPANY LINE INTERFACE. INSTALL MODULAR 66 BLOCK ONTO PLYWOOD BACKBOARD.
- (T11) 3/4" FIRE TREATED PLYWOOD ON WALLS INDICATED FROM FLOOR TO 8'-0" AFF FOR MOUNTING OF EQUIPMENT.
- (T12) DUPLEX OUTLETS TO DEDICATED CIRCUITS.
- (T13) COMMUNICATIONS HUB (N.I.C.) AND POS HUB (N.I.C.)

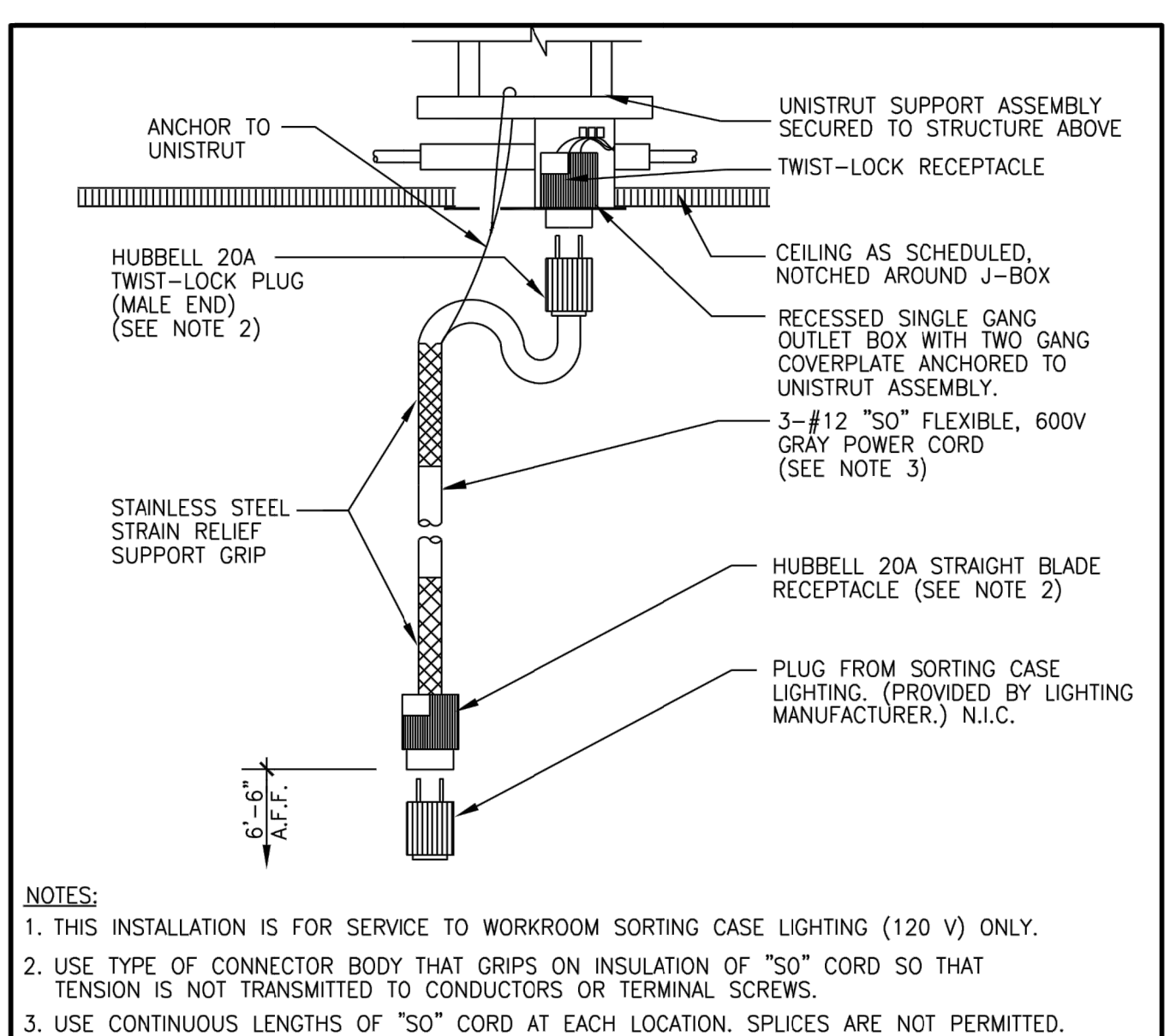
3 COMMUNICATIONS - WALL MOUNTED MC KEYED NOTES G5-4-0 d1
Scale: NTS 0 1/2" 1"
USPS S&L Issued: 5/1/2014
Last Revised: 3/11/2005



4 COMMUNICATIONS STRUCTURED CABLING RISER DIAGRAM G5-4-0 b
Scale: NTS 0 1/2" 1"
USPS S&L Issued: 5/1/2014
Last Revised: 9/11/2005



5 EXTERIOR LIGHTING THROUGH - WALL SIGN CONNECTION G5-3-2 c
Scale: NTS 0 1/2" 1"
USPS S&L Issued: 5/1/2014
Last Revised: 6/11/2005



6 CONVENIENCE OUTLETS - TWIST-LOCK DROP CORD THRU CEILING G5-2-8 b
Scale: NTS 0 1/2" 1"
USPS S&L Issued: 5/1/2014
Last Revised: 4/20/2011

16010 - ELECTRICAL GENERAL REQUIREMENTS

1.1 SCOPE:

- a. Applicable requirements of the General Conditions of the Contract, Amendments, Supplementary General Conditions, and Special Conditions govern work under this Division.
b. Minor details not usually shown or specified, but necessary for the proper installation and operation, shall be included in the work, the same as if herein specified or shown.

1.2 RECORD DRAWINGS:

- a. During construction of this project, the Contractor shall maintain one complete set of electrical contract drawings, on which shall be recorded all significant changes. This set of drawings shall be used for no other purpose. Upon completion of the work, the Contractor shall submit these drawings to the Architect/Engineer for approval and presentation to the Owner.

1.3 REGULATIONS AND COMPLIANCE:

- a. The requirements of the North Carolina State Building Code which includes the National Electrical Code, and of all other State and Local codes, ordinances, regulations and interpretations by authorities having jurisdiction are binding upon this Contractor, and nothing contained in, or inferred by, these specifications or the applicable drawings may be construed as waiving those requirements.

- A. All materials and equipment shall bear the approval label, and shall be listed by the Underwriters' Laboratories, Inc.

2.1 GENERAL:

- a. Except where reuse of existing items are specifically indicated or permitted, all materials and equipment shall be new and shall conform with the standards of the National Electrical Manufacturer's Association and Underwriters' Laboratories, Inc. in every instance where such a standard has been established for the item involved.

- b. It is the intention of these specifications and drawings to call for finished work, tested and ready for operation. Whenever the work "provide" is used, it shall mean "furnish and install complete and ready for use".

3.1 COORDINATION:

- a. This Contractor coordinate the work of all subs and shall furnish any information necessary to permit the work of all trades to be installed satisfactorily and with the least possible interference or delay.

- b. The Contractor shall furnish to other trades, as required, all necessary templates, patterns, setting plans, and shop details for the proper installation of work and for the purpose of coordinating adjacent work.

3.4 PROTECTION AND CLEAN-UP:

- a. Protect all material and work from damage during construction. Equipment installed in the building prior to its being closed in and dried out shall be protected from the elements in the same manner as previously specified for stored materials.

- b. The Contractor shall keep premises free of debris resulting from his work.

3.5 PAINTING AND FINISHING:

- a. Suitable finishes shall be provided on all items of electrical equipment and materials which are exposed. This shall consist of either an acceptable finish as manufactured and supplied to the job or application of suitable finishes after installation.

- b. Where installed in finished areas, exposed equipment and materials shall be supplied with prime coat, and shall be professionally painted or enameled as directed to match or blend with adjacent surfaces.

- c. In unfinished areas such as equipment rooms, exposed equipment shall be furnished with suitable factory applied finishes (e.g. standard gray enamel finish for panelboards, etc.).

16030-EQUIPMENT CONNECTIONS AND COORDINATION

1.1 SCOPE:

- a. The connection of all equipment provided under any Division of these specifications or by the owner requiring electrical connection shall be provided as part of this Division, unless otherwise indicated or specified. Special outlets, where indicated, are considered to be electrical connection to the equipment.

- b. Drawings indicate approximate equipment capacity (including motor horsepower) and approximate location of connection. It is the responsibility of this Contractor to determine the exact characteristics of equipment actually being supplied, and to provide proper branch circuit connections, conductors protection, and grounding.

2.1 GENERAL:

- a. Heating, Ventilating, Air Conditioning, Refrigeration and Plumbing Equipment: Unless otherwise indicated, provide all power wiring, including feeders and branch circuits, to the terminals of the equipment, including mounting of motor starters, feeder and branch circuit over-current protection; disconnecting means within sight of each motor and each starter, whether or not specifically indicated on drawings.

- b. Individually mounted motor starters: Unless otherwise indicated, individually mounted motor starters will be furnished as part of the Division furnishing the driven equipment. Unless otherwise indicated, remote control wiring for Heating, Ventilating, Air Conditioning, and Plumbing equipment will be provided as part of those respective Divisions.

16100-BASIC MATERIALS AND METHODS

1.1 WIRING METHOD:

- a. Unless otherwise indicated or specified, the Wiring Method for this project shall consist of copper conductors with 600 volt insulation installed in metal raceways.

- b. The word "Raceway" and the word "Conduit" (or abbreviation "C") used herein or on the drawings indicate Rigid Metal Conduit, and where permitted, Intermediate Metal Conduit, Electrical Metallic Tubing, Flexible Metal Conduit, or Liquidtight Flexible Metal Conduit.

- c. Reference to "Rigid Conduit" or "RMC" indicates heavy-wall Rigid Metal Conduit only.

- d. Reference to "IMC" indicates Intermediate Metal Conduit.

- e. Reference to "EMT" or "Tubing" indicates Electrical Metallic Tubing.

- f. Reference to "Flex" or "Flexible Conduit" indicates Flexible Metal Conduit, or, where required, Liquidtight Flexible Metal Conduit.

1.2 FASTENINGS METHODS:

- a. Acceptable fastening methods include wood screws and nails on wood construction, toggle bolts on hollow masonry, expansion bolts and lead anchors on brick and concrete, and machine screws on metal surfaces.

- b. Explosive fasteners may be used in steel and concrete in accordance with the manufacturer's recommendations.

- c. Wire, perforated metal strap, and wooden plugs are not acceptable as fastening material.

- d. Materials used shall be good quality, made of zinc or cadmium coated steel or other non-corroding material.

- e. Materials, whether exposed or concealed, shall be firmly and adequately held in place. Fastening and support shall afford safety factor of three or higher, and shall be in full compliance with the seismic protection requirements of the N.C. State Building Code.

- f. Fixtures, raceways, and equipment shall be supported from the structure. Nothing may be supported on suspended ceiling unless definitely noted so on the Drawings or specifically permitted by the Architect/Engineer.

- g. Equipment and raceways attached to outside walls, or interior walls subject to permanent moisture, shall be shimmied out with non-corrodible material so as to provide 1/4" air space between wall and equipment or raceway.

1.3 NAMEPLATES:

- a. Suitable nameplates shall be provided for the identification of electrical equipment.

- b. Nameplates shall be of engraved white core plastic laminate, not less than 1/16" thick. For 120/208 volt systems, nameplates shall have white letters on black backgrounds.

- c. Engraving shall be of professional quality, with block style letters, minimum 1/4" high.

- d. Nameplates shall be attached with sheet metal screws. They shall be sized to allow for installation of screws without obscuring text.

16110-RACEWAYS AND FITTINGS

1.1 MATERIALS AND APPLICATIONS:

- a. Rigid Metal Conduit shall be zinc coated steel or alloy 6063-T42 aluminum with threaded couplings and fittings. Termination at sheet metal enclosures shall consist of double locknuts and insulating bushings. Rigid Steel conduit shall be used for all exposed and concealed work except where other raceways are indicated or permitted. Aluminum conduit complete with aluminum fittings may be used in lieu of steel conduit except in wet locations, underground, or in poured concrete. Steel and aluminum shall not be mixed in the same run of conduit.

- b. Intermediate Metal Conduit (IMC) with threaded couplings and fittings may be used for exposed and concealed work in lieu of rigid metal conduit except underground outside the building foundation, or where supporting lighting fixtures, or in hazardous locations, or where exposed to severe impact or injury. Termination at sheet metal enclosures shall consist of double locknuts and insulating bushings.

- c. Electrical Metallic Tubing (EMT) of 2" maximum size may be used for concealed work in lieu of Rigid Metal Conduit except

- underground or in poured concrete. EMT of 2" maximum size may be used for exposed work in lieu of Rigid Metal Conduit except outdoors, or above a roof, or where supporting lighting fixtures, or where exposed to severe impact or injury, or in hazardous locations, or less than 10 feet above a floor or platform in other than in electrical, mechanical, or communications closets or equipment rooms.

- d. Flexible Metal Conduit shall be of zinc coated steel of minimum length, and shall be used in lieu of Rigid Metal Conduit for connections to moving or vibrating apparatus, recessed lighting fixtures, dry-type transformers, and motors. Flexible Metal Conduit may be used where rigid connectors are impractical due to obstructions or space limitations. Flexible Metal Conduit used in wet, damp, or corrosive location shall be PVC jacketed liquid-tight complete with liquid-tight connectors.

- e. Fittings for steel conduit and tubing shall be of zinc coated steel or malleable iron. Insulating bushings of plastic provided for Rigid and Intermediate Metal Conduits shall be rated for 1500c. Bonding bushings shall be steel or malleable iron with non-removable plastic throats rated 1500c. EMT fittings shall be of the compression type. Set-screw, indenter, pressure cast, and die cast fittings are not acceptable. Connectors for EMT, Flexible Metal Conduit and Liquid-tight Flexible Metal Conduit shall be the insulated throat type. Connectors for Flexible Metal Conduits shall be of the "Tite-Bite" design.

- f. Conduit expansion fittings shall be of zinc coated cast or malleable iron and steel conduit, complete with flexible bonding straps. Expansion fittings shall allow longitudinal conduit movement of 4 inches.

- g. Minimum raceway size shall be 1/2". Other raceway sizes, unless indicated on the drawings, shall be determined by the Contractor in accordance with NEC requirements for type THW insulated conductors, or the actual insulation used if it is thicker than type THW.

2.1 INSTALLATION:

- a. Rigid and Intermediate Metal Conduits shall be made up with full threads, to which a conductive pipe compound (T & B Kopr-Shield or equal) has been applied, and butted in coupling. Terminations at sheet metal enclosures in indoor dry locations shall be made with double locknuts and an insulating bushing. Terminations at sheet metal enclosures in outdoor, damp, and wet locations shall be made with threaded conduit hubs of zinc coated malleable iron.

- b. Conduits shall be rigidly supported not more than 8 feet on center and shall be concealed within walls, ceilings, and floors, except as indicated or specifically approved by the Architect/Engineer, kept at least 6" from flues and steam or hot water pipes, and protected against the entry of dirt, plaster, or trash. Raceways shall be supported independently of suspended ceiling members and suspension wires.

- c. Suspended EMT shall be provided with additional hangers at elbows and bends, and where necessary to avoid strain at couplings and connectors.

- d. Exposed conduits, where permitted, shall be run parallel or perpendicular to walls, structural members and ceilings; with right-angle turns consisting of symmetrical bends or cast metal fittings with threaded hubs. Offsets may be used where necessary provided that they are of minimum length.

- e. Conduits crossing expansion and contraction joints shall cross perpendicular to the joint and shall be provided with expansion fittings. Conduits shall not be embedded in the concrete slabs at the expansion and contraction joints.

16120-CONDUCTORS

1.1 MATERIALS:

- a. Unless otherwise indicated, all wire and cable conductors shall be copper.

- b. Conductors shall be not smaller than #12 AWG except that #10 AWG minimum is required for the entire length of 120 volt branch circuits whose distance to the center of the load exceeds 75 feet. #14 AWG may be used for signal and remote control circuits. #16 AWG may be used for taps to individual recessed lighting fixtures on circuits protected by over-current devices rated at 20 amperes or less and contained within flexible metal conduits that do not exceed 6 feet in length. Other conductors smaller than #14 AWG may be used only where specifically indicated on the drawings or specified herein.

- c. Conductors #10 AWG and smaller shall be solid, dual rated type THWN/THHN.

- d. Conductors #8 AWG and larger shall be stranded, dual rated type THWN/THHN.

- e. Each conductor shall bear easily readable markings along entire length, indicating size and insulation type.

- f. Insulation on conductors #10 AWG and smaller shall be suitable colored in manufacture.

- g. Conductors in any location subject to abnormal temperature shall be furnished with an insulation type suitable for temperature encountered.

- h. Where no indication is made of wire size, the conductor shall be of N.E.C. size to match its overcurrent protective device, but in no case smaller than #12 AWG.

2.1 SPLICES, TAPS, AND CONNECTIONS:

- a. Splices in conductors #10 AWG and smaller shall be made with twist-on spring steel devices UL listed as Pressure Cable Connectors, with integral insulating covers rated 750c. at 600 volts.

- b. Splices in copper conductors #8 AWG and larger shall be made with mechanical devices UL listed as Pressure Cable Connectors and insulated with thermoplastic tape UL listed for use as sole insulation. Tape may be omitted from connectors supplied with security fastened insulating covers which completely enclose the connector and the conductors. Insulating covers shall be rated 750c at 600 volts.

2.2 COLOR CODING:

- a. All wiring shall be color coded.

- b. On 120/208V, 3 phase, 4 wire power systems, conductors shall be color coded Black (Phase A), Red (Phase B), Blue (Phase C), and White (Neutral).

- c. Conductors #8 AWG and larger may be identified with two or more bands of proper color plastic tape applied near each splice and termination. Painting of wire will not be acceptable.

- d. Phase sequence shall be "A", "B" and "C" from left to right, top to bottom or front to back when facing equipment.

2.3 BRANCH CIRCUIT RACEWAY WIRING:

- a. Three-phase circuits shall be limited to one such circuit per raceway. They shall consist of three different phase wires, and a neutral where required.

- b. A neutral shall not serve more than one circuit. The neutral carrying all or any part of the current of any specific load shall be contained in the same raceway or enclosure with the phase wire or wires also carrying that current.

- c. Circuits shall be connected to panels as shown in the panel schedules.

- d. Under the above requirements and with required color coding system no raceway shall contain more than one wire of the same color, except for switch legs and control conductors.

- e. Conductors supplying lighting outlets may be combined in the same raceways with conductors supplying receptacles; but lighting outlets and receptacle outlets shall not be connected to the same circuits unless specifically indicated on the drawings.

2.4 FEEDER CONDUCTORS:

- a. Unless specifically shown otherwise, each set of feeder conductors shall be installed in a separate raceway.

- b. Where paralleling of conductors is shown for feeders, it is absolutely required they be exactly the same length between terminations.

- c. Where feeder conductors are so installed that the conductor markings cannot be read without moving or twisting conductors, they shall be provided with suitable tags indicating the conductor size and insulation.

16122-METAL-CLAD CABLE SYSTEMS

1.1 SCOPE:

- a. Furnish and install a complete system of Metal-Clad Cable for branch circuit, signal, and remote control wiring as specified herein. Comply with Section 16100 BASIC MATERIALS AND METHODS.

- b. Types AC cable is not permitted.

1.2 APPLICATIONS:

- a. Metal-Clad Cables may be used in lieu of wire in metal raceway only for concealed work in dry locations above suspended ceilings and within stud partitions.

- b. Cables may not be run in, or through, concrete or masonry, fire-rated partitions, smoke partitions, or floors.

1.3 SUBMITTALS:

- a. Submit for approval manufacturer's data sheets for metal-clad cable systems.

2.1 MATERIALS:

- a. Metal-Clad Cables shall be UL listed as type MC with copper conductors, THHN insulated; with full size green insulated grounding conductors. Minimum sizes shall be #12 AWG for branch circuits, #14 AWG for signal and remote control. Maximum size shall be #10 AWG.

- b. Cable connectors shall be UL listed for grounding the metal sheath. Connectors shall be of steel or malleable iron with insulated throats.

- c. Cables shall be color-coded in manufacture. Color-code shall comply with Section 16120 CONDUCTORS.

3.1 INSTALLATION:

- a. Cables shall not be run exposed. Conduit skirts may be provided on surface mounted panelboards to conceal cables between panel tops and ceilings.

- b. Except where installed in continuous rows, lighting fixtures shall be individually connected to a concealed outlet box. Cables may not be

- looped from fixture to fixture.

- c. Cables above ceilings shall be supported from overhead structure clear of ductwork, suspended ceilings, and ceiling hanger wires.

16130-GROUNDING AND BONDING

1.1 SCOPE:

- a. The neutral of each separately derived system, and all non-current-carrying metal parts, raceways, and enclosures shall be permanently and effectively grounded.

- b. Grounding and bonding shall be provided in strict accordance with the National Electrical Code, and as specified herein and on the drawings.

- c. The Contractor shall note that required grounding conductors and connectors are not all shown on the drawings. NEC requirements apply.

2.1 MATERIALS AND APPLICATIONS:

- a. Grounding conductors shall be of THWN insulated copper, unless otherwise indicated.

- b. Grounding bus bars in distribution equipment shall be bare copper.

- c. Clamps for attaching conductors to water pipes and ground rods shall be of bronze. Ground rod clamps shall be UL listed for direct burial.

- d. Clamps for attaching conductors to building steel shall be of steel, bronze, or malleable iron.

- e. Threaded hubs for bonding metal raceways to the contained grounding electrode conductors and to the water pipe clamps shall be of bronze or malleable iron. Similar hubs shall be used to bond the same raceways to the conductors and to sheet metal equipment enclosures.

- f. Driven grounding electrodes shall consist of copper clad steel rods. Rods shall be 8 feet long and 5/8" diameter unless otherwise indicated.

- g. Bonding bushings shall be of steel or malleable iron with non-removable plastic throats rated 1500C.

- h. Bonding locknuts and wedges for service conduits shall be of zinc coated steel.

3.1 EQUIPMENT GROUNDING:

- a. All non-current-carrying metal parts, raceways, and enclosures of the electrical system and of equipment supplied through the electrical system shall be permanently and effectively grounded.

- b. Equipment grounding conductors shall be provided for each feeder and for each branch circuit and shall be contained within the same raceways as the feeder and branch circuit conductors. The equipment grounding conductor shall be THWN insulated copper, not smaller than #12 AWG.

- c. Copper bonding strips normally included in small sizes of liquid-tight flexible metal conduit and dependent upon the terminal connectors for bonding continuity will not be accepted in lieu of the equipment grounding conductors specified herein.

- d. Where metal raceways enter sheet metal enclosures through knockouts provide bonding bushings and jumpers to the enclosure under any of the following conditions:

- 1. Branch circuit conduit exceeds 1" in size.

- 2. Feeder conduit regardless of size.

16140-BOXES

1.1 MATERIALS AND APPLICATIONS:

- a. Unless specifically noted or approved otherwise, boxes shall be of zinc coated steel or cast ferrous alloy as manufactured by Steel City, Raco, Crouse-Hinds, Appleton, or approved equal.

- b. Unless otherwise indicated, for exposed work on the interior of the building boxes shall be of cast metal with threaded conduit hubs and gasketed covers; or of zinc coated sheet steel of NEC gauge and size with screw fastened gasketed covers and threaded conduits hubs of zinc coated malleable iron and no knockouts or extraneous openings. Cover screws shall be stainless steel.

- c. For exposed work Equipment Rooms, or, in other dry areas, 8 feet or more above a floor or platform, boxes 5" square and larger shall be NEC gauge and size of zinc coated sheet steel. 4" octagonal, 4" square and 4-11/16" square "knockout" boxes shall be of zinc coated steel, NEC gauge and size. Box extensions are not permitted on exposed "knockout" boxes, and covers shall be of the raised surface type. "Handy" boxes are not permitted.

16150-WIRING DEVICES

1.1 MANUFACTURERS:

- a. Wiring devices and device plates shall be manufactured by General Electric, Hubbell, Bryant, Arrow Hart, Pass and Seymour, Leviton, or Eagle.

1.2 DEVICES AND PLATES - GENERAL:

- a. Unless otherwise indicated or directed, devices shall be gray in color.

- b. Unless otherwise indicated, plates for flush outlets shall be of #302 stainless steel. Those for surface cast boxes shall be of steel, of shape and finish to match the box. Screws shall be steel to match the plate.

- c. Each device (including each switch) shall be equipped with a Hex-Head green grounding screw for grounding the device and plate to the outlet box and to the equipment grounding conductor run with the circuit conductors. "Self-Grounding" type mounting screws will not be accepted as the device grounding method.

1.3 SWITCHES:

- a. Switches used for lighting control shall be rated 20 amps, 120-277 VAC, side wired, Pass and Seymour 521-G series.

- b. Switches used for disconnecting small single-phase motors and appliances shall be rated 20 or 30 amps to match the branch circuit rating and comply with their horsepower ratings, 120-277 VAC, side wired, Pass and Seymour 521-G series and 30 ACI series.

- c. Each device (including each switch) shall be equipped with a Hex-Head green grounding screw for grounding the device and plate to the outlet box and to the equipment grounding conductor run with the circuit conductors. "Self-Grounding" type mounting screws will not be accepted as the device grounding method.

1.4 RECEPTACLES:

- a. Unless otherwise indicated or required, receptacles shall be the duplex type, side and back wired, with nylon face. On circuits supplying two or more such receptacles, they shall be rated 15 amps, 125 volts, NEMA 5-15R. Duplex receptacles on individual circuits shall be rated 20 amps, 125 volts, NEMA 5-20R.

- b. Where no other features are indicated on the drawings provide Hubbell 5262 and 5362 series for 5-15R and 5-20R respectively.

- c. Where indicated on the drawings provide Ground Fault Circuit Interrupter receptacles, Hubbell GF5262 and GF5362 series for 5-15R and 5-20R respectively.

16160-RACEWAY AND OUTLET SYSTEMS

1.1 SCOPE:

- a. Contractor shall furnish and install systems of raceways, outlet boxes, equipment boards, and cabinets, as indicated on the drawings and as herein specified to accommodate the installation by others of wiring and equipment.

2.1 MATERIALS:

- a. Raceways, and boxes, shall be in compliance with the relevant sections of these specifications.

- b. Wall outlets shall consist of standard 4" x 4" x 2-1/2" outlet boxes with single device rings. Trim plates shall be blank trim wiring device trim plates, unless otherwise indicated.

- c. Special outlets including floor outlets shall be as noted on the drawings.

- d. Equipment boards shall be of size noted or shown on the drawings, and shall be constructed of 3/4" plywood, with finish grade on front. Paint board with gray fire-retardant paint.

3.1 COORDINATION:

- a. Contractor shall fully coordinate with the telephone and system installer, and shall install service entrance raceways, backboards, and grounding conductors in accordance with their requirements.

- b. Contractor shall fully coordinate with other installers of wiring and equipment and shall install raceways, outlets, cabinets, and backboards in accordance with their requirements.

3.2 INSTALLATION:

- a. Install pull boxes as necessary to limit runs between pull points to two 90 degree bends (or equivalent) and to 100 feet in length, unless other arrangements are approved by the wiring installers.

- b. Leave all raceways with 100 lb. test nylon pull cord.

- c. Install raceways and boxes in accordance with relevant sections of these specifications.

- d. Unless specifically noted otherwise, provide an individual 1" conduit from each indicated outlet to the nearest cable tray, equipment cable tray, cabinet or terminal board for the system involved.

- e. Provide all conduits not terminating on boxes with plastic bushings.

- f. At the equipment terminal board, terminate all conduits with plastic bushings.

16190-MISCELLANEOUS MATERIALS

2.1 TIME SWITCHES:

- a. Time switches for the control of tungsten-lamps loads, fluorescent lamp loads, resistive heating loads, motors and magnetically operated devices shall consist of a digital programmable timer and switch assembly in a suitable enclosure, as indicated and herein specified.

- b. Timer shall operate from either 120, 208, 240 or 277.

- c. Battery reserve power shall be provided which will automatically operate the timer in case of electric power failure for a period of not less than 30 days.

- d. The switch mechanism shall include a heavy-duty, general purpose, precision snap-action switch. Provision shall be made for manual "OFF" and "ON" operation of the switch.

- e. Time switches shall be manufactured by Tork, Sangamo, General Electric, or approved equal.

2.2 TIME SWITCH AND PHOTOCELL CONTROL DEVICES:

- a. Time Switch/Photo Control: 7 day calendar dial type, with 16 hour reserve power, Tork 7200ZL, mounted in general purpose NEMA Type 1 enclosure.

- b. Photo cell control devices for control of outdoor fixtures and natural daylight utilization

16400-SECONDARY DISTRIBUTION EQUIPMENT

1.1 OVERCURRENT PROTECTION DEVICES:

- a. Unless otherwise indicated, circuit breakers shall be provided as the over-current protection devices for services, separately derived systems, feeders, and branch circuits. Fuses may be used only where indicated on the drawings, or required by the nameplate for equipment connected, or specified herein.
b. Molded-case and insulated-case circuit breakers shall be the static or thermal-magnetic type, quick-make and quick-break for manual and automatic operation. Multi-pole breakers shall be common trip. Circuit breakers shall be bolted in place where possible. Thermal-magnetic breakers shall be calibrated at 400C, or as maximum compensated. Ampere ratings, frame sizes, and short circuit ratings shall be as indicated on the drawings. Series ratings may be applied only where specifically indicated on the drawings. Individual enclosures shall be NEMA 1 indoors, 3R outdoors, unless otherwise indicated. Other circuit breakers shall be suitable for installation in Panelboards as here-in-after specified.
c. Single-pole 15 and 20 amp circuit breakers shall be SWD rated.
d. Fuses shall be the non-renewable, time delay, cartridge type, UL Class RK5 unless otherwise indicated; for installation in Safety Switches.

1.2 SWITCHING EQUIPMENT:

- a. Fusible switches shall be incorporated into Safety Switches, as hereinafter specified. Manual operation shall be quick-make and quick-break. Fuse holders shall be the Class R rejection type unless otherwise indicated.
b. Safety Switches shall be the NEMA heavy duty type, horsepower rated, with interlocked covers, non-fusible except where fused switches are indicated or fuses are required. Switch mechanisms shall be quick-make and quick-break. Enclosures shall be NEMA 1 indoors, NEMA 3R outdoors unless otherwise indicated. Fuse holders, where required, shall be as specified above for fusible switches.
c. Switches for disconnecting small single-phase motors and appliances shall comply with SECTION 16150 WIRING DEVICES.

2.1 INSTALLATION:

- a. Distribution Equipment shall be installed in strict accordance with the manufacturer's instructions for handling, support, connections, assembly, protection, energization, adjustment, and similar procedures.
b. Fastening methods shall comply with SECTION 16100 BASIC MATERIALS AND METHODS.
c. Floor mounted equipment such as Transformers shall be provided with 4" high concrete pads and shall be secured to the concrete pad. Pads shall have a 3/4 inch chamber on each accessible side.
d. Equipment interiors shall be thoroughly cleaned of dust, dirt, trash, and other foreign material prior to energization of the equipment.
e. Upon completion or the project, furnish to the Owner one complete set of replacement fuses, consisting of three fuses of each type and rating used.
f. Directory cards for Panelboards shall be neatly filled-in with a typewriter to indicate the type and location of the load on each circuit or feeder.

16401 - SURGE PROTECTION DEVICE SYSTEM

1.1 SCOPE:

- a. These specifications describe the electrical and mechanical requirements for a high energy Surge Protection Device System (SPD). The specified system shall provide effective high energy surge current diversion, sine wave tracking as required for electrical line noise filtering and be suitable for application in ANS/IEEE C62.41 Category A, B, and C environments, as tested by ANS/IEEE C62.11, C62.45 and MIL STD 220A. The system shall be connected in parallel with the protected system; no series connected elements shall be used which limit load current or kVA capability.
b. SPD designs that limit the 100% rated surge protection shall not be acceptable.

1.2 SYSTEM DESCRIPTION:

- a. Operating Temperature range shall be -40 to +50 C (-40 to +122 F)
b. Operation shall be reliable in an environment with 0% to 95% non-condensing relative humidity.
c. The SPD maximum continuous operating voltage shall be greater than 115% of the nominal system operating voltage to ensure the ability of the system to withstand temporary RMS overvoltage (swell) conditions.
d. Protection Modes
1. All Modes L, N, L, L, L, G, (N, G where applicable)
Note: L = Line, N = Neutral, G = Ground
e. The SPD shall have a minimum UL 1449 3rd Edition Nominal Discharge Current Rating (In) of 10,000 Amperes. When used in conjunction with a UL 96A certified Lightning Protection System the (In) rating shall be 20,000 Amperes.
f. UL 1449 3rd Edition Listed, bearing the official UL 3rd Edition gold hologram label.
g. UL 1283 5th Edition Listed.
h. The Surge Protective Device (SPD) shall be a stand alone configuration. Systems that must be integral to the switchgear will not be considered.
i. All SPD systems shall be permanently connected, parallel designs. Series suppression elements shall not be acceptable.
j. The SPD shall be marked with a Short Circuit Current Rating (SCCR) and shall not be installed at a point on the system where the available fault current is in excess of that rating per the National Electric Code, Article 285, Section 6.
k. SPD designs that limit the 100% rated surge protection shall not be acceptable.

1. Hybrid design utilizing:

- 1. Thermally Protected Metal Oxide Varistors
2. Filter capacitors to suppress EM/RFI electrical noise.

1.3 DOCUMENTATION:

- a. Electrical and mechanical drawings shall be provided by the manufacturer which show unit dimensions, weights, component and connection locations, mounting provisions, connection details and wiring diagram.
b. Documentation of specified system's UL 1449 3rd Edition Listing and voltage protection ratings of all protection modes shall be included as required product data submittal information.
c. The manufacturer shall provide a full five year warranty from date of shipment against any part failure when installed in compliance with manufacturer's written instructions, UL listing requirements, and any applicable national or local electrical codes. Manufacturer shall make available local field engineering service support. Where direct factory employed service engineers are not locally available, travel time from the factory or nearest dispatch center shall be stated.

2.1 NON-MODULAR SURGE PROTECTION FOR DISTRIBUTION, SUB-DISTRIBUTION AND BRANCH CIRCUIT PANELS (LOWER AMPACITY, 15A TO 800A, APPLICATIONS):

- a. The SPD surge current ratings shall be based on the electrical system ampacity listed in the table below.

Table with 4 columns: Ampacity @ SPD Install Point, Surge Protection (kA) Per Mode, and two columns for Pk Phase (150, 300, 100, 200, 50, 100).

- b. The SPD shall be rated for 480/277Vac 3 Phase, 4 Wire + Ground, Wye or 208/120Vac 3 Phase, 4 Wire + Ground, Wye, as required.

- c. All non-modular units shall be factory wired using color coded #10AWG Rope Lay ultra-low resistance wire (with 413 strands/36AWG, seven (7) groups of 59 strands each): two feet (2') for each phase conductor and three feet (3') for Neutral and Ground conductors to be fed by 30 Amp circuit breaker.

- d. Voltage Protection Ratings: The let-through voltage test results used to obtain the UL 1449 3rd Edition Voltage Performance Ratings "VPR" (8kV, 3000 Amperes, 8/20µs waveform) shall not exceed the UL assigned values listed below.

Table with 2 columns: Voltage Protection Ratings (VPR) and Voltage Rating @ 208/120V. Rows include Line to Neutral (700V), Line to Ground (700V), Neutral to Ground (800V), and Line to Line (1000V).

3.1 INSTALLATION:

- a. The installing contractor shall connect the SPD in parallel to the power source, keeping conductors as short and straight as practically possible. The contractor shall twist the SPD input conductors together to reduce input conductor impedance.
b. A modular SPD shall be close nipped to the distribution panel and shall be supplied by a 60 Amp

circuit breaker. (Where possible, a bottom feed modular SPD is preferred, close nipped to top of distribution cabinet.)

- c. A non-modular SPD shall be close nipped to the panelboard and shall be supplied by a 30 Amp circuit breaker.
16420-PANELBOARDS

1.1 SUBMITTALS:

- a. Submit for approval panelboard shop drawings which include as a minimum the following information:

- 1. Cabinet dimensions.
2. Mounting requirements.
3. Bussing arrangement.
4. Circuit breaker arrangement.
5. Accessories.

2.1 BRANCH CIRCUIT PANELBOARDS:

- a. Equipment shall be built to NEMA Standard PB-1, UL Standards UL50 and UL67, and NEC requirements.
b. Panelboard backboxes shall be constructed of galvanized sheet steel and shall be securely fabricated with screws, bolts, rivets, or by welding. Backboxes shall be a minimum 20" wide and 5-3/4" deep, unless noted otherwise, and heights shall not exceed 72" overall. Top or bottom gutter space shall be increased 6" where feeder loops through panel. End plates shall be supplied without knockouts.
c. Covers shall be constructed of high grade flat sheet steel with:
1. Door-in-door construction shall be provided. The inside hinge door shall allow access to device handles only. Door shall close flush with cover and against a full inside trim stop. Hinges shall be inside type. The outer hinged door shall allow access to wiring gutter.
2. A flush latch and tumbler type lock, so panel door may be held closed without being locked. All such locks shall be keyed alike. Furnish to the Owner two keys with each lock, or a total of 10 keys for the project.
3. Four or more cover fasteners of a type which will permit mounting plumb on box. Cover shall also have inside support studs to rest on lower edge of backbox while being fastened. For flush mounted panelboards, cover fastening hardware shall be concealed behind the hinged door.
d. Panelboard phase and neutral bus buswork shall be of copper. A copper ground bus shall be provided in each panel.
e. Minimum short circuit rating of any panelboard assembly shall be 10,000A. Furnish panelboards with higher rating where so noted or where evidently intended by specification of circuit breakers with higher interrupting capacity.
f. Ampacity of mains shall be equal to, or greater than, the ampacity of the feeder unless otherwise indicated.
g. Where drawings schedules indicate spaces for addition of future circuit breakers, furnish all necessary buswork, strap, brackets, hardware, and removable blank covers.
h. Breakers in panelboards shall be physically arranged in locations shown in panel schedules on the drawings where possible. They shall be connected to the phases as shown.
i. Unless otherwise indicated and where available for the panelboard type specified, circuit breakers shall be of the bolt-on type.

2.2 DISTRIBUTION PANELBOARDS

- a. Panelboards required to have two or more subfeed breakers rated 100 amperes or greater shall be Distribution Type.
b. Description: NEMA PB 1, circuit breaker type.
c. Panelboard Bus: Copper. One continuous fully rated bus bar per phase with ratings as indicated. Provide copper ground bus and aluminum neutral in each panelboard equipped with lugs to accommodate all conductors to be connected. Unless otherwise noted, neutral bus shall be sized 100% of phase bus rating and the ground bus shall be sized a minimum of 25% of the phase bus rating. Where more than one ground bar is furnished, each ground bar will be interconnected with a conductor sized not less than the panelboard feeder ground conductor. Ground bar shall be bonded to enclosure.
d. Interior trim shall be dead front construction. Main lugs shall be mounted in the mains compartment.
e. Main circuit breaker and main lug interiors shall be field convertible for top or bottom incoming feed.
f. Enclosure: NEMA PB 1, Type 1 unless otherwise indicated on drawings. In compliance with UL 50.

- 1. Panelboard backbox shall be constructed with pre-punched knockouts.
2. Cabinet front shall be a four piece surface trim for surface mount standard. Where specifically indicated on the drawings, either a single hinged door or door-in-door construction shall be provided. For door-in-door construction, the inner hinged door shall allow access to the device handles only and the outer hinged door shall allow access to wiring gutter.
3. Enclosure and front shall be either galvanized steel or stainless steel and shall be finished in manufacturer's standard gray enamel.
4. The enclosure shall be minimum 26 inches wide.

- g. Minimum fully rated short circuit rating: RMS symmetrical amperage shall be minimum 22,000 amperes unless otherwise indicated on drawings.
h. Molded Case Circuit Breakers: NEMA AB 1, UL 489 listed circuit breakers.

16500-LIGHTING FIXTURES AND ACCESSORIES

PART 1 - GENERAL

1.1 SCOPE:

- a. The Contractor shall furnish and completely install Lighting Fixtures and Accessories as indicated on the drawings and as herein specified.
b. All fixtures shall be equipped with lamps.
c. A lighting fixture shall be provided for each lighting outlet indicated. Outlets lacking fixture designations shall be brought to the attention of the Architect/Engineer before submitting proposal; otherwise units selected by the Architect/Engineer shall be furnished and installed at no additional charge.

1.2 SUBMITTALS:

- a. Submit for approval complete manufacturer's data sheets for all fixtures. Indicate all components, characteristics, and options.
b. Submit for approval manufacturer's data sheets for all lamps to be furnished.
c. Submit for approval Lighting Fixture samples as requested by the Architect/Engineer. Samples shall be equipped with lamps, cords, plugs, and ballasts for 120 volt operation.

PART 2 - PRODUCTS

2.1 LIGHTING FIXTURES:

- a. All fixtures shall be labeled by Underwriters' Laboratories, Inc.
b. Fixture designations on the drawings generally consist of a letter indicating the fixture type. Fixture types are identified in the Lighting Fixture Schedule or Symbol Schedule; however, the Schedule does not necessarily list all accessories and hardware necessary for the complete installation, nor does it detail the construction to be encountered at the fixture locations. It is the Contractor's responsibility to properly determine and provide correct components, accessories, and hardware required for the installation.

- c. Pendant Fixtures shall be equipped with swivel hangers; twin stem for individual fluorescent fixtures and single stem for continuous row fluorescent fixtures, spaced according to the manufacturer's recommendations but not less than one per fixture unit plus one per row.

- d. Recessed fixtures in plaster and gypsum board ceilings shall be equipped with plaster frames. In other ceilings they shall be equipped with plaster frames and/or other devices as approved by the Architect/Engineer, to facilitate removal of fixture and access to the concealed junction box.

- e. Plastic materials indicated to be "acrylic" shall be of 100% virgin methyl methacrylate produced by Rohm and Haas, Dupont, or Cyanamid.
f. Eight-foot chassis with lamps in tandem may be used in lieu of four-foot fluorescent units in continuous rows, except where recessed into ceiling construction which incorporates exposed support members at four-foot intervals.

2.2 LED DRIVES

- a. General.
1. Ten-year operational life while operating at maximum case temperature and 90 percent non-condensing relative humidity.
2. Designed and tested to withstand electrostatic discharges up to 15,000 V without impairment per IEC801-2.
3. Electrolytic capacitors to operate at least 20 degrees C below the capacitor's maximum temperature rating when the driver is under fully-loaded conditions and under maximum case temperature.
4. Maximum inrush current of 2 amperes for 120V and 277V drives.

- 5. Withstand up to a 4,000 volt surge without impairment of performance as defined by ANSI C62.41 Category A.
6. Manufactured in a facility that employs ESD reduction practices in compliance with ANSI/ESD S20.20.
7. Class A Sound Rating - Inaudible in a 27 dBA ambient.
8. No visible change in light output with a variation of plus/minus 10 percent line voltage input.
9. Total Harmonic Distortion less than 20 percent and meet ANSI C82.11 maximum allowable THD requirements.
10. Drives to track evenly across:
(a) Multiple fixtures.
(b) All light levels.
11. Constant current drives must provide models to:
(a) Support from 200mA to 2.1 Amps (in 10mA steps) to ensure a compatible driver exists.
(b) Support LED arrays up to 40W or 50W (70mA to 1.05A in 10mA steps).
12. Constant voltage drives must provide models to:
(a) Support from 10V to 40V (in 0.5V steps) to ensure a compatible driver exists.
(b) Support LED arrays up to 40W.
13. Configuration tool must be available to optimize the following for LED fixtures:
(a) Light level.
(b) Efficacy.
(c) Thermal performance.
14. Driver must be capable of operating from a supply voltage of 120 through 277VAC at 60Hz for digitally addressable and 3-wire models.

b. 3-Wire Control.

- 1. Continuous dimming from 100 percent to 1 percent relative light output.
2. Provide integral fault protection to prevent driver failure in the event of an input mis-wire.

d. Forward Phase Control (Neutral Wire Required).

- 1. Continuous dimming from 100 percent to 1 percent relative light output.

2.3 LED 0-10V DIMMING DRIVERS:

- a. Physical Characteristics.
1. LED Driver shall be installed inside an electrical enclosure.
2. Wiring inside electrical enclosure shall comply with 600V/105°C rating or higher.
b. Performance.
1. LED Driver is certified by UL Class 2 for use in a dry or damp location.
2. Led Driver has Class A sound rating.
3. LED Driver has a minimum operating ambient temperature of 40°C.
4. LED Driver has a life expectancy of 50,000 hours at Tcase of 57°C.
5. LED Driver has a life expectancy of 100,000 hours at Tcase of 52°C.
6. LED Driver has a maximum self rise of 25°C in open air without heat sink.
7. LED Driver maximum allowable case temperature is 75°C - see product label for measurement location.
8. LED Driver reduces output power to LEDs if maximum allowable case temperature is exceeded.
9. LED Driver has a failure rate 5 0.01% per 1,000 hours at Tcases 70°C.
10. LED Driver has a failure rate of 0.01% - 0.02% per 1,000 hours at Tcase of 70°C - 80°C.
11. LED Driver tolerates sustained open circuit and short circuit output conditions without damage.
12. LED Driver complies with FCC rules and regulations, as per Title 47 CFR Part 15 Non-Consumer (Class A).
c. UL Conditions of Acceptability
1. The maximum available output parameters of the driver met the Class 2 Inherently limited parameters.
2. The Driver is suitable for use in "Dry" and "Damp" locations.
3. When the driver is installed in the end-use application, the measured case temperature at the (Tc) location specified on the marking label must not exceed 77.6°C.
4. The driver shall be installed in compliance with the requirements of the end-product standard.
5. The case of the driver must be connected to Earth ground when installed in the end-use application.
2.4 EMERGENCY EXIT LUMINAIRE:
a. It shall be completely self-contained, provided with maintenance-free battery, automatic charger, and other features. Luminaire must be third-party listed as emergency lighting equipment, and meet or exceed the following standards: NEC, N.C. Building Code, Volume X Energy Code, NFPA-101, and NEMA Standards.
b. Battery shall be sealed, maintenance-free type, with minimum of 90 minutes operating endurance. Battery shall have a normal life expectancy of 10 years. Batteries shall be high temperature type with an operating range of 0 degree C to 60 degrees C and contain a re-sealable pressure vent, a sintered + positive terminal and - negative terminal.
c. Charger shall be full automatic solid state type, full wave rectifying, with current limiting. Charger shall restore the battery to its full charge within 24 hours after a discharge of 90 minutes under full rated load. The unit shall be activated with the voltage drops below 80 percent. A low voltage disconnect switch shall be included if LEAD Battery is used, to disconnect the battery from the load and prevent damage from a deep discharge during extended power outage.
d. Pilot light shall indicate the unit is connected to AC power. The battery shall have high rate charge pilot light, unless self-diagnostic type. Tests switch shall simulate the operation of the unit upon loss of A.C. power by energizing the lamps from the battery. This simulation must also exercise the transfer relay.
e. The entire unit shall be warranted for three years. The battery must have an additional two more years' pro-rated warranty. Warranty shall start from the date of project final acceptance. Warranty shall be included in the contract document.
f. The use of LED is required due to their reliable performance, low power consumption, and limited maintenance requirements. Maximum LED failure rate shall be 25% within a seven (7) year period; otherwise, if exceeded, manufacturer shall replace the complete unit at no charge to the owner.
g. Contractor shall perform a test on each unit after it is permanently installed and charged for a minimum of 24 hours. Battery shall be tested for 90 minutes. The battery test shall be done 10 days prior to final inspection. Any unit which fails the test must be repaired or replaced, and tested again. The test shall demonstrate that the batteries conform to the requirements of NEC 700.12 (F).

2.5 EMERGENCY EGRESS LUMINAIRE:

- a. Shall be completely self-contained, provided with maintenance-free 12 volt battery, automatic charger, two lamps, and other features. Luminaire shall be third-party listed as emergency lighting equipment, and meet or exceed the following standards: NEC, N.C. Building Code, Volume X Energy Code, NFPA-101, and NEMA Standards.
b. Pilot light shall indicate the unit is connected to A.C. power. The battery shall have high rate charge pilot light, unless self-diagnostic type. A test switch shall simulate the operation of the unit upon loss of A.C. power by energizing the lamps from the battery. This simulation must also exercise the transfer relay.
c. Battery shall be sealed, maintenance free type, with minimum of 90 minutes operating endurance. Battery shall have a normal life expectancy of 10 years. Batteries shall be a high temperature type with an operating range of 0 degree C to 60 degrees C and contain a re-sealable pressure vent, a sintered + positive terminal and - negative terminal.
d. Charges shall be fully automatic solid state type, full wave rectifying, with current limiting. Charger shall restore the battery to its full charge within 24 hours after a discharge of 90 minutes under full rated load. The unit shall be activated when the voltage drops below 80%. A low voltage disconnect switch shall be included if LEAD battery is used, to disconnect the battery from the load and prevent damage from a deep discharge during extended power outage.
e. The entire unit shall be warranted for three years. The battery must have an additional two more years' pro-rated warranty. Warranty shall start from the date of project final acceptance. Warranty shall be included in the contract document.
f. Contractor shall perform a test on each unit after it is permanently installed and charged for a minimum of 24 hours. Battery shall be tested for 90 minutes. The battery test shall be done 10 days prior to final inspection. Any unit which fails the test must be repaired or replaced, and tested again. The test shall demonstrate that the batteries conform to the requirements of NEC 700.12 (F).

PART 3 - EXECUTION

3.1 COORDINATION:

- a. Contractor shall verify ceiling or wall type in or on which each fixture is to be mounted, and shall furnish unit with appropriate trim type, mounting hardware, and accessories to fit the construction; and feed through junction boxes as required to maintain proper access to system wiring.

3.2 INSTALLATION:

- a. Lighting fixtures shall be installed in accordance with the manufacturer's instructions.
b. Lighting fixtures shall be supported from the building structure using corrosion resistant steel hardware in compliance with Section 26 10 00, Basic Materials and Methods.
c. A minimum of two No. 12 gauge wire supports attached to the structure shall be provided for each lighting fixture unless otherwise indicated or

- approved by the Architect/Engineer. The supports shall be located at diagonal corners of rectangular fixtures and angled away from fixture. A minimum of three full twists shall be made at each end to secure wire.
d. In addition to the supports from the structure, fixtures shall also be secured to suspended ceilings on which they are mounted, or in which they are recessed. Where fixtures are secured to suspended ceilings, the primary supports from the building structure shall be slack.
e. Where installed recessed in grid type ceilings, the fixtures shall be attached to the main runners of the suspended ceiling at all four corners using sheet metal screws.
f. Mount fixtures plumb and square. Keep rows in perfect line.
g. At time of project completion, fixtures and lamps shall be clean and fully operational.

260500 - COMMON WORK RESULTS FOR ELECTRICAL

Part 1 - GENERAL

- 1.01 DESCRIPTION
A. Furnish of all labor, materials and services necessary for complete installation, testing, and adjusting of electrical lighting, power, and signal systems as specified and indicated.
B. Connections and Services: Provide, procure and pay for all permits, licenses, and fees required to complete work. Check and coordinate with the local utility companies. Pay all reimbursements for work performed by local utility companies.

1.02 RELATED DOCUMENTS

- A. Refer to other sections of these specifications for related work, which is not work of this section.
B. Related sections:
1. Section 260503 - Basic Electrical Materials and Methods.
2. Section 265000 - Lighting / Electrical Work.

1.03 CODES

- A. Work herein shall conform to all applicable laws, ordinances, and to regulations of the local utility companies. Work shall be in accordance with the latest applicable requirements of:
1. National Fire Protection Association (Fire Code)
2. National Electrical Code - 2011
3. Underwriter's Laboratories, Inc.

1.04 QUALITY ASSURANCE

- A. Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.
B. Provide only materials that are new, and of the type and quality specified. Where Underwriters' Laboratories, Inc. have established standards for such materials, provide only materials bearing the UL label.

1.05 SUBMITTALS

- A. Submittals shall identify all items and all technical data shall be included. All submittals shall be submitted at one time.
B. Submittals are required for the following:

- 1. Wiring Fixtures, Lamps and Ballasts
2. Lighting Devices
3. Meter Sockets
4. Branch Circuit Panel
5. Safety Switches
6. Smoke Detectors
7. Occupancy Sensors, Time Switch and Photo-Electric Control

1.06 HANDLING OF MATERIALS

- A. Properly handle, house and protect, from damage and the weather, all materials, equipment and apparatus furnished under this section of the specifications.

1.07 EXAMINATION OF SITE

- A. Where exact locations are required for conduit entries, request shop drawings, equipment location drawings, foundation drawings, and any other data required to locate the concealed conduit before the foundation is poured.

1.08 COORDINATION OF THE WORK

- A. Examine architectural drawings for location of suitable openings and chases for the passage of equipment to be installed under this section.

1.09 ELECTRICAL COORDINATION

- A. Coordinate with all other trades to avoid interferences and conditions which will not allow the installation of equipment, piping, fixtures, etc., as indicated.
B. Provide power wiring, conduit and connections to all electrically operated equipment and provide disconnecting equipment, unless specifically indicated otherwise, or furnished as part of factory packaged equipment.
C. Ensure that motors and equipment have proper voltage to operate on this system and that each motor has thermal overload protection, properly sized to nameplate data.
D. Verify exact equipment locations with architectural and mechanical drawings.

1.10 ACCESS TO ELECTRICAL WORK

- A. Provide access panels for concealed junction boxes, ballasts, disconnect switches, or other electrical devices where concealed, or in areas not otherwise accessible.

1.11 SYMBOLS

- A. Symbols for outlets and equipment are scheduled on the plans. Some symbols may not be used, others may not be scheduled.

1.12 ELECTRICAL IDENTIFICATION

- A. Provide typewritten directory in branch circuit panel. Directory shall be in two columns with odd on left and even on right, to match numbers on breakers.

1.13 EXCAVATION

- A. Provide excavation, backfill and compaction in conformance with other divisions of the specification.

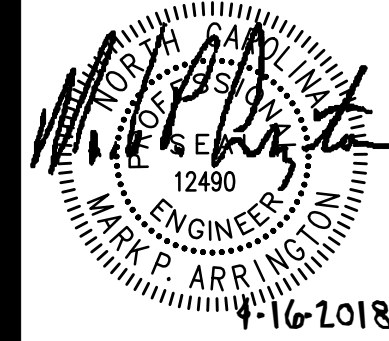
1.14 BASIS FOR WIRING DESIGN

- A. The drawings and specifications describe specific sizes of switches, breakers, fuses, conduits, conductors and other electrical equipment. These sizes are based on specific items of power-consuming equipment, i.e., heaters, lights, motors for fans, compressors, pumps, etc. Whenever power-consuming equipment differs from the drawings and specifications, electrical equipment for such installation shall be changed to proper sizes to match.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

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INTERIOR UPRFT USPS SPOUT SPRINGS NC CAX XXXXXXXX XXXXXXXX



Electrical Specifications Scale: As Indicated Date: 5/17/2018 Project: SPOUT SPRINGS INTERIOR UPRFT USPS File Number: XXXXX USPS Project Number: 039632

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