



# CITY OF BOISE FIRE STATION 8

CONTRACT DRAWINGS FOR:

## CITY OF BOISE FIRE STATION 8

3575 W Overland Rd  
Boise, ID 83705

PROJECT NO. 15-28  
PLOT DATE: 01.29.16

PROJECT PHASE:  
75% CD's

ARCHITECTURAL  
STRUCTURAL  
ELECTRICAL  
MECHANICAL  
PLUMBING  
ACOUSTICAL



## PROJECT CONTACT INFORMATION:

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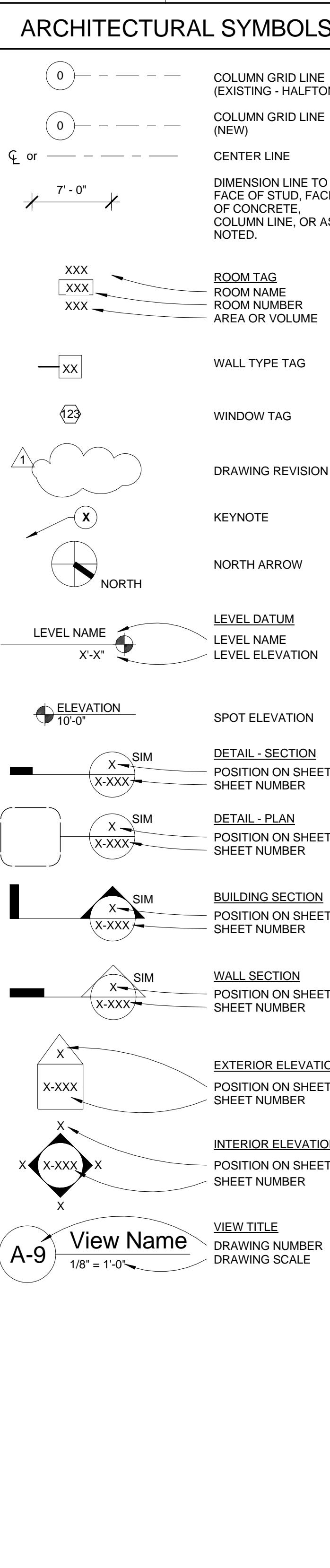
**ELECTRICAL / MECHANICAL**  
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NOT FOR CONSTRUCTION

G000

| ABBREVIATIONS: |                                   |
|----------------|-----------------------------------|
| ABBREVIATION   | DESCRIPTION                       |
| AB             | ANCHOR BOLT                       |
| AFF            | ABOVE FINISH FLOOR                |
| ALUM           | ALUMINUM                          |
| APPROX         | APPROXIMATELY                     |
| BD             | BOND                              |
| BLDG           | BUILDING                          |
| BM             | BEAM                              |
| BOT            | BOTTOM                            |
| BRG            | BEARING                           |
| CJ             | CONCRETE CONSTRUCTION JOINT       |
| CLG            | CLEAR                             |
| CLR            | CONCRETE MASONRY UNIT             |
| COL            | COLUMN                            |
| CONC           | CONCRETE                          |
| CONT           | CONTINUOUS                        |
| CONTR          | CONTRACTOR                        |
| CTR            | CENTER                            |
| DBL            | DOUBLE                            |
| DEMO           | DEMOLITION                        |
| DIA            | DIAMETER                          |
| DIAG           | DIAGONAL                          |
| DIM            | DIMENSION                         |
| DN             | DOWN                              |
| DWG            | DRAWING                           |
| (E)            | EXISTING                          |
| EA             | EACH                              |
| ELEV           | ELEVATION                         |
| EMB            | EMBEDDED                          |
| EQ             | EQUAL                             |
| EXP            | EXPANSION                         |
| (F)            | FUTURE                            |
| FB             | FLAT BAR                          |
| FD             | FLOOR DRAIN                       |
| FEC            | FIRE EXTINGUISHER CABINET         |
| FIN            | FINISH                            |
| FLASH          | FLASHING                          |
| FLR            | FLOOR                             |
| FOB            | FACE OF BRICK                     |
| FOF            | FACE OF FOUNDATION                |
| FOAM           | FACE OF MASONRY                   |
| FOS            | FACE OF STUD                      |
| FT             | FOOT/FEET                         |
| GA             | GAUGE                             |
| GALV           | GALVANIZED                        |
| GI             | GALVANIZED IRON                   |
| GND            | GROUNDED                          |
| GYP            | GYPSUM                            |
| H              | HIGH                              |
| HB             | HOLLOW METAL or HERMAN MILLER     |
| HCR            | HOLLOW CIRCLE                     |
| HP             | HIGH POINT                        |
| HR             | HOUR                              |
| HS             | HIGH STRENGTH                     |
| HT             | HEIGHT                            |
| ID             | INSIDE DIAMETER                   |
| INSUL          | INSULATION                        |
| JT             | JOINT                             |
| LG             | LONG                              |
| LLV            | LONG LEG VERTICAL                 |
| MAX            | MAXIMUM                           |
| MB             | MACHINE BOLT                      |
| MECH           | MECHANICAL                        |
| MET            | METAL                             |
| MFR            | MANUFACTURER                      |
| MN             | MINIMUM                           |
| MO             | MASONRY OPENING                   |
| (NI)           | NEW                               |
| NIC            | NOT IN CONTRACT                   |
| NO             | NUMBER                            |
| NTS            | NOT TO SCALE                      |
| OC             | ON CENTER                         |
| OD             | OUTSIDE DIAMETER                  |
| OH             | OPPOSITE HAND                     |
| OPNG           | OPENING                           |
| OPP            | OPPOSITE                          |
| PL             | PLATE                             |
| PROJ           | PROJECT                           |
| PT             | POINT                             |
| R              | RISER                             |
| RE             | RELOCATED                         |
| RAD            | RADIATOR                          |
| RD             | ROOF DRAIN                        |
| REF            | REFERENCE                         |
| REFIN          | REINFORCEMENT, REINFORCED         |
| REFQ           | REQUIREMENT                       |
| ROD            | ROUGH OPENING                     |
| RWC            | RAIN WATER CONDUCTOR OR DOWNSPOUT |
| SECT           | SECTION                           |
| SIM            | SIMILAR                           |
| SHT            | SHEET                             |
| SPCC           | SPILL CONTAINMENT                 |
| SQ             | SQUARE                            |
| STD            | STANDARD                          |
| STL            | STEEL                             |
| STRU           | STRUCTURAL                        |
| TEL            | TELEPHONE                         |
| TO             | TOP OF                            |
| TOC            | TOP OF CURB                       |
| TOJ            | TOP OF JOIST                      |
| TOS            | TOP OF STEEL                      |
| TOW            | TOP OF WALL                       |
| TYPE           | TYPE                              |
| UNO            | UNLESS NOTED OTHERWISE            |
| VCT            | VINYL COMPOSITION TILE            |
| VERT           | VERTICAL                          |
| W              | WIDE                              |
| WD             | WOOD                              |
| WO             | WIDTH OF OPENING                  |
| WP             | WEATHERPROOF                      |
| WS             | WOOD SCREW                        |
| W/S            | WOOD SURFACE                      |
| WT             | WEIGHT                            |
| WWF            | WELDED WIRE FABRIC                |



**GENERAL PROJECT NOTES:**

A. GENERAL PROJECT NOTES APPLY TO ALL SHEETS & SPECIFICATIONS. CONTRACTOR AND SUB-CONTRACTORS ARE TO REVIEW ALL CONTRACT DOCUMENTS AND COORDINATE THEIR SCOPE OF WORK WITH THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS. INFORMATION COMMON TO SEVERAL DRAWINGS MAY BE NOTED ON ONLY ONE. CONTRACTOR IS RESPONSIBLE FOR ENTIRE SET OF DOCUMENTS.

B. IF INFORMATION ON SEPARATE SHEETS OR DETAILS INDICATE CONFLICTING INFORMATION OR QUESTIONS ABOUT THE SCOPE OF WORK OR DESIGN INTENT, THE CONTRACTOR IS TO NOTIFY THE ARCHITECT IMMEDIATELY BEFORE BIDS ARE FINALIZED TO CLARIFY SCOPE OF WORK. IF THE SCOPE OF WORK REMAINS UNCLEAR THEN THE CONTRACTOR OR SUB-CONTRACTOR IS INSTRUCTED TO PRICE AND PROVIDE THE MOST EXPENSIVE SCOPE OF WORK OPTION IN THEIR BID.

C. WHERE CONFLICTING DIRECTION IS GIVEN WITHIN THE SPECIFICATIONS AND DRAWINGS THE CONTRACTOR IS TO NOTIFY THE ARCHITECT IMMEDIATELY BEFORE BIDS ARE FINALIZED TO CLARIFY SCOPE OF WORK. IF THE SCOPE OF WORK REMAINS UNCLEAR THEN THE CONTRACTOR OR SUB-CONTRACTOR IS INSTRUCTED TO PRICE AND PROVIDED THE MOST EXPENSIVE SCOPE OF WORK OPTION IN THEIR BID.

D. COORDINATE CONSTRUCTION ACTIVITY WITH PROJECT SPECIFICATIONS. ALL SPECIFICATIONS REFERENCED IN DRAWINGS OR NOTES SHALL BE PART THIS PROJECT'S SCOPE OF WORK. MISNUMBERED (OR MISLABELED) SPECIFICATIONS OR REFERENCES ARE ALSO PART OF THIS PROJECT'S SCOPE OF WORK AND SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. THE CONTRACTOR IS RESPONSIBLE TO INCORPORATE ALL SPECIFICATIONS INTO THE PROJECT'S SCOPE OF WORK.

E. ALL BUILDING COMPONENTS ARE TO BE INSTALLED PER THE MANUFACTURER INTENDED USE AND IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFIED ATTACHMENT REQUIREMENTS. CLEARANCES, COURSE ATTACHMENT TECHNIQUES, FASTENING METHODS & APPROVED SUBSTRATES. CONTACT ARCHITECT IMMEDIATELY BEFORE PROCEEDING WITH INSTALLATION OF COMPONENTS THAT DO NOT MEET THE MANUFACTURER'S RECOMMENDATIONS.

F. SCREEN MECHANICAL SYSTEMS FROM TRANSFERRING DUST AND DEBRIS FROM PROJECT AREA TO THE REMAINDER OF THE BUILDING.

G. DO NOT SCALE DRAWINGS. IF SPECIFIC DIMENSIONS ARE NEEDED CONSULT ARCHITECT.

H. FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALED DRAWINGS. WHERE DISCREPANCIES OCCUR, THEY SHALL BE REPORTED TO ARCHITECT FOR RESOLUTION.

I. DETAILED DRAWINGS AND LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.

J. PROVIDE BLOCKING OR ATTACHMENT PLATES OR ANCHORS OR FASTENERS OF ADEQUATE SIZE AND NUMBER TO SECURELY ANCHOR EACH COMPONENT IN PLACE, ACCURATELY LOCATED AND ALIGNED WITH OTHER PORTIONS OF THE WORK. WHERE SIZE AND TYPE OF ATTACHMENTS ARE NOT INDICATED, VERIFY SIZE AND TYPE REQUIRED FOR LOAD CONDITIONS.

K. PROVIDE WALL BACKING FOR ALL WALL MOUNTED BUILDING COMPONENTS, SUCH AS BUT NOT LIMITED TO MILLWORK, BATHROOM ACCESSORIES, HANDRAILS, LADDERS, SHELVING & ELECTRONIC DEVICES. PROVIDE BACKING OF ADEQUATE SIZE AND NUMBER TO SECURELY ANCHOR EACH COMPONENT IN PLACE. WHERE SIZE AND TYPE OF ATTACHMENTS ARE NOT INDICATED, VERIFY SIZE AND TYPE REQUIRED WITH ARCHITECT FOR LOAD CONDITIONS.

L. THE DRAWINGS INDICATE LOCATION, DIMENSIONS, REFERENCE, AND TYPICAL DETAILS OF CONSTRUCTION. THE DRAWINGS DO NOT INDICATE EVERY CONDITION. WORK THAT IS NOT SPECIFICALLY DETAILED SHALL BE OF CONSTRUCTION SIMILAR TO PARTS THAT ARE DETAILED.

M. SUBCONTRACTORS FOR EACH TRADE ARE ADVISED THAT INFORMATION PERTINENT TO THEIR WORK MAY OCCUR IN OTHER PORTIONS OF THE CONTRACT DOCUMENTS. ALL NOTES ARE TO BE REVIEWED AND APPLIED TO RELATED BUILDING DOCUMENTS.

N. WHERE NO MATERIAL NOTES OCCUR, THE GRAPHIC MATERIAL INDICATION SHALL INDICATE MATERIAL TYPES AND ITEMS. SEE SYMBOL AND MATERIALS LIST ON THIS SHEET.

O. ALL NEW CONSTRUCTION TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES.

P. UNLESS OTHERWISE INDICATED ALL DRAWINGS, NOTES WHICH DO NOT READ "N.I.C.", "EXISTING", OR "EXISTING TO REMAIN" OR BY OTHERS SHALL INDICATE NEW WORK WHICH SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED.

Q. THE CONTRACTOR(S) SHALL KEEP ALL AREAS OF CONSTRUCTION CLEAN AND FREE OF DEBRIS. AFTER CONSTRUCTION IS COMPLETE, THE GENERAL CONTRACTOR SHALL PROVIDE FINAL CLEAN UP. REQUIREMENTS STRICTLY. DISPOSE OF MATERIALS LAWFULLY.

R. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS FOR ACCURACY PRIOR TO COMMENCING WITH THE WORK. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

S. FIELD MEASUREMENTS: TAKE FIELD MEASUREMENTS AS REQUIRED TO FIT THE WORK PROPERLY. RECHECK MEASUREMENTS BEFORE INSTALLING EACH PRODUCT. WHERE PORTIONS OF THE WORK ARE INDICATED TO FIT TO OTHER CONSTRUCTION, VERIFY DIMENSIONS OF OTHER CONSTRUCTION BY FIELD MEASUREMENTS BEFORE FABRICATION. COORDINATE FABRICATION SCHEDULE WITH CONSTRUCTION PROGRESS TO AVOID DELAYING THE WORK.

T. THIS PROJECT MAY NOT BE OCCUPIED UNTIL IT RECEIVES A CERTIFICATE OF OCCUPANCY AND FIRE DEPARTMENT APPROVAL FROM GOVERNING JURISDICTION.

U. COORDINATE STRUCTURAL, MECHANICAL, ELECTRICAL, AND FIRE PROTECTION REQUIREMENTS, ROUTING, AND FIELD VERIFICATION.

V. WHERE NEW CONSTRUCTION JOINS WITH EXISTING CONSTRUCTION, ALIGN FINISHED SURFACE OF NEW CONSTRUCTION WITH EXISTING CONSTRUCTION.

W. WHEN REQUIRED PROVIDE COPY OF FIRE-RESISTANCE RATING ASSEMBLIES TO THE STRUCTURAL INSPECTOR FOR VERIFICATION OF TESTING/LISTING COMPLIANCE AND TO INSPECT ASSEMBLY CONSTRUCTION THEREWITH.

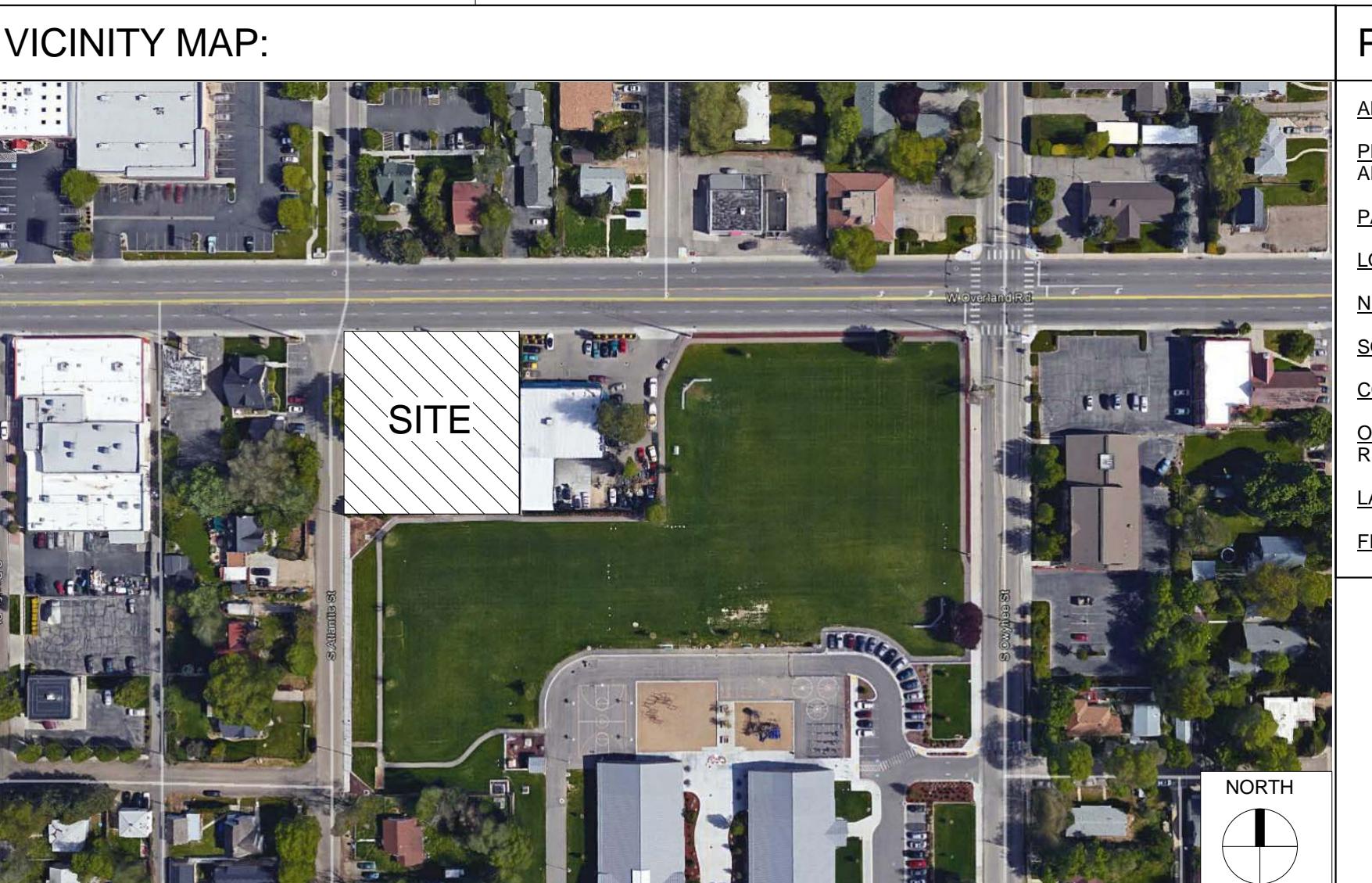
X. ALL CONSTRUCTION ADDENDA, CHANGE ORDERS, OR DESIGN CLARIFICATIONS TO THOSE ITEMS REGULATED BY THE CODES MUST BE SUBMITTED TO THE FIELD INSPECTOR FOR REVIEW AND APPROVAL PRIOR TO COMMENCING WITH ANY OF THE PROPOSED WORK RELATED TO THE PROPOSED FIELD CHANGE.

Y. EXAMINE ROUGHING-IN FOR MECHANICAL AND ELECTRICAL SYSTEMS TO VERIFY ACTUAL LOCATIONS OF CONNECTIONS BEFORE EQUIPMENT AND FIXTURE INSTALLATION. EXAMINE WALLS, FLOORS, AND ROOFS FOR SUITABLE CONDITIONS WHERE PRODUCTS AND SYSTEMS ARE TO BE INSTALLED. VERIFY COMPATIBILITY WITH AND SUITABILITY OF SUBSTRATES, INCLUDING COMPATIBILITY WITH EXISTING FINISHES OR PRIMERS.

AA. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. PROCEEDING WITH THE WORK INDICATES ACCEPTANCE OF SURFACES AND CONDITIONS.

BB. MAKE JOINTS OF UNIFORM WIDTH. WHERE JOINT LOCATIONS IN EXPOSED WORK ARE NOT INDICATED, ARRANGE JOINTS FOR THE BEST VISUAL EFFECT. FIT EXPOSED CONNECTIONS TOGETHER TO FORM HAIRLINE JOINTS.

CC. GRAPHIC PATTERNS OR HATCHES SHOWN IN DRAWINGS REPRESENT CONSTRUCTION MATERIALS AND ARE NOT TO BE USED AS LITERAL CONSTRUCTION GUIDELINES. CONTRACTOR IS TO COORDINATE ALL MATERIAL LAYOUT PRIOR TO CONSTRUCTION AND PROVIDE WORK BASED ON MANUFACTURES RECOMMENDATIONS AND STANDARD CONSTRUCTION TECHNIQUES. IF QUESTIONS ARISE CONTACT ARCHITECT FOR INTERPRETATION PRIOR TO CONSTRUCTION.



**PROJECT INFORMATION**

ADDRESS: 3575 W. OVERLAND RD.  
PROPERTY DESCRIPTION: PAR #0340 OF LOTS 26-32 BLK 03 & LOTS 01-07 & VAC ALLEY STEINS ADD R/S 5532 #0376-S #0337-C  
PARCEL NUMBER: R8123000340  
LOT SIZE: 0.653 ACRES  
NUMBER OF STORIES: 2  
SQUARE FOOTAGE: 11,936 SQ FT  
CONSTRUCTION TYPE: VB  
OCCUPANCY: GROUP B-BUSINESS, A3-ASSEMBLY, S1 & S2-STORAGE, R2-RESIDENTIAL  
LAND USE CODE: C-2D  
FIRE SPRINKLERS: FULL SPRINKLERS



NOT FOR CONSTRUCTION

CONSULTANT:



REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

DRAWN BY: M. Joseph

SHEET NAME:

SHEET NUMBER:

01.29.16

G001





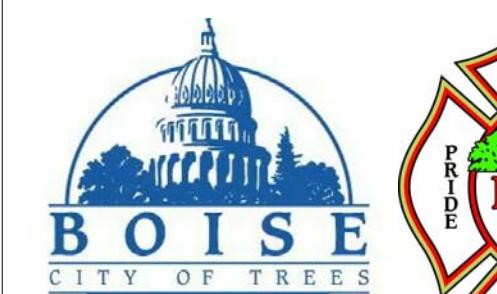


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CONSULTANT:

PROJECT INFORMATION:

**City of Boise Fire Station 8**

3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
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|      |      |             |

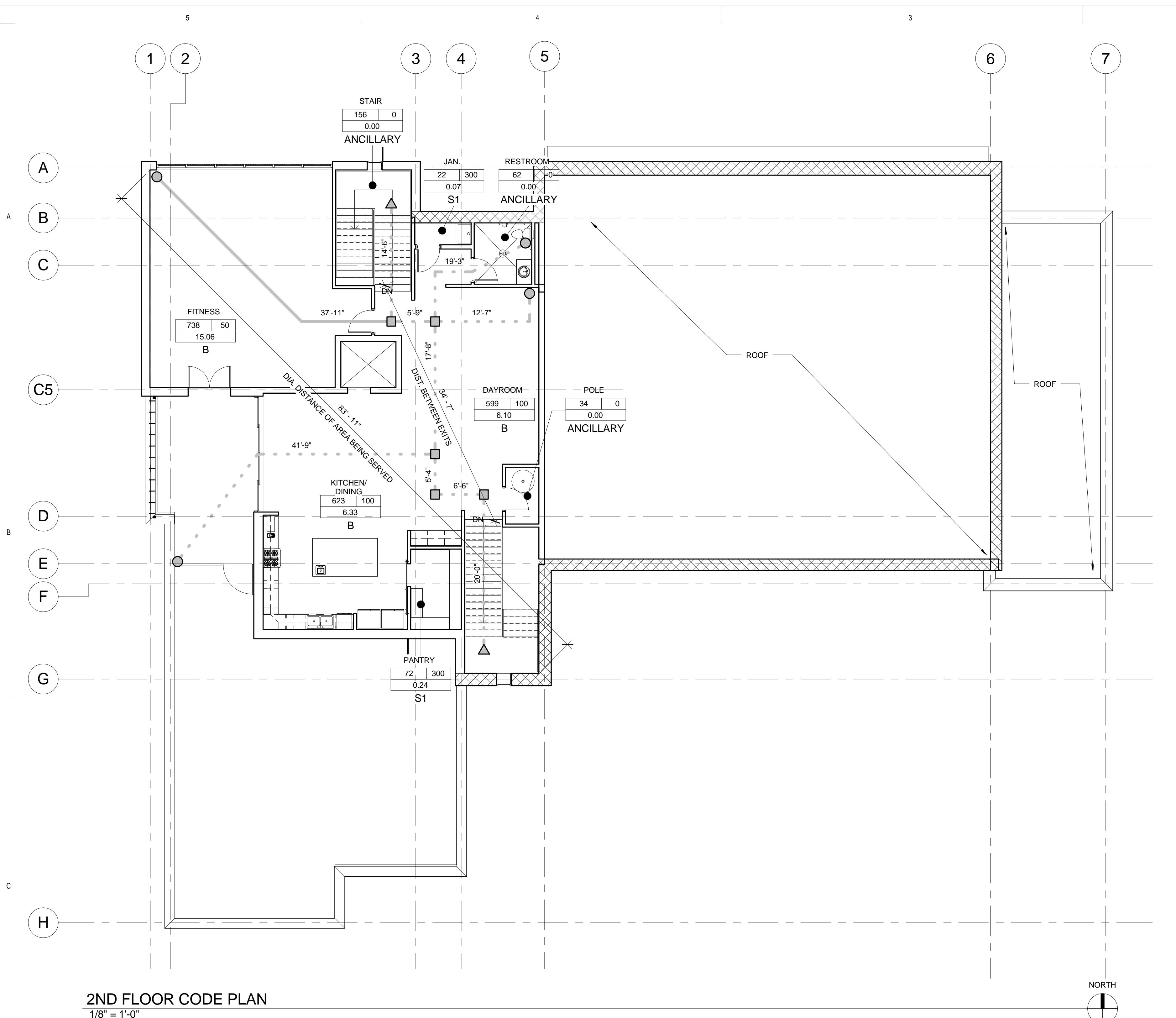
SHEET NAME:

**2ND FLOOR CODE ANALYSIS & LIFE SAFETY PLAN**

SHEET NUMBER:

**G004**

01.29.16

**2ND FLOOR CODE PLAN**

1/8" = 1'-0"

| CODE REVIEW:   |         | GENERAL NOTES CODE PLAN:  |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
|--|---------|---|-----------------------|----------------|-----------------------|----------------|-----------|--|--|--|--|---------|--------|---|----|-------|------|-------|-----------|---|------|-----------------|--------|---|-----|------|--------|-------|----|-----|------|------|-------|----|-----|------|----------|-------|-----------|---|------|-------|--------|-----------|---|------|--|---------|--|--|-------|------------------------------|--|
| ADDRESS:<br>3575 W. OVERLAND RD.<br>BOISE, ID 83705  |         | A. ALL CONSTRUCTION ADDENDA, CHANGE ORDERS, OR DESIGN CLARIFICATIONS MUST BE SUBMITTED TO THE BUILDING DEPARTMENT OFFICE STAFF FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION IN THE FIELD. THE FIELD INSPECTOR WILL NOT APPROVE CHANGES TO THESE APPROVED PLANS AND SPECIFICATIONS.   |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| APPLICABLE CODES:<br>2012 INTERNATIONAL BUILDING CODE<br>2012 INTERNATIONAL RESIDENTIAL CODE (PARTS I - IV AND IX, APPENDIX G)<br>IDAHO STATE PLUMBING CODE<br>2014 NATIONAL ELECTRIC CODE<br>2012 INTERNATIONAL FIRE CODE<br>2012 INTERNATIONAL MECHANICAL CODE<br>2012 INTERNATIONAL FUEL GAS CODE CODE  |         | B. ABBREVIATIONS OR PARTIAL CODE SECTIONS NOTED ON THE PLAN AND PLAN REVIEW LIST ARE INTENDED TO INDICATE THE NATURE OF THE PLAN DEFICIENCY OR GIVE ADDITIONAL INFORMATION. THE FULL TEXT OF THE CODE, AS INDICATED BY THE CODE SECTION REFERENCED, ALWAYS APPLIES.   |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| FIRE SPRINKLER AND FIRE ALARM:<br>FIRE SPRINKLER SYSTEM - YES<br>FIRE ALARM SYSTEM - YES   |         | C. THE ISSUANCE OR GRANTING OF A PERMIT OR APPROVAL OF PLANS, SPECIFICATIONS, COMPUTATIONS, DRAWINGS, ETC., MAY NOT BE CONSIDERED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE IBC OR ANY OTHER RADIANCE OF THIS JURISDICTION. PERMITS PRESUMING TO GIVE AUTHORITY TO VIOLATE OR CANCEL THE PROVISIONS OF THE IBC OR OTHER ORDINANCES OF THIS JURISDICTION SHALL NOT BE VALID.  |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| THE FIRE SPRINKLER SYSTEM IS TO BE IN COMPLIANCE WITH NFPA 13 AND APPROVED BY THE STATE FIRE MARSHAL AND THE LOCAL FIRE DEPARTMENT. NEW WALL LOCATIONS MAY REQUIRE AN ALTERATION TO THE SPRINKLER SYSTEM TO MAINTAIN COMPLIANCE. WORK TO BE PERFORMED BY LICENSED FIRE SPRINKLER CONTRACTOR.   |         | D. APPROVAL AS A RESULT OF AN INSPECTION SHALL NOT BE CONSTRUED TO BE AN APPROVAL OF VIOLATIONS OF THE PROVISIONS OF THE IBC OR OTHER ORDINANCES OF THIS JURISDICTION. INSPECTIONS PREMISING TO GIVE AUTHORITY TO VIOLATE OR CANCEL THE PROVISIONS OF THE IBC OR OTHER ORDINANCES OF THIS JURISDICTION SHALL NOT BE VALID.  |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| FULL SPRINKLERED BUILDING PER SECTION 903.26<br>FIRE ALARM PER SECTION 907   |         | E. THE RELOCATION OF FIRE SPRINKLER HEADS SHALL COMPLY WITH APPROVED FIRE SUPPRESSION SYSTEMS PLAN REVIEW DOCUMENTS.  |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| 503 (TABLE) GENERAL BUILDING HEIGHT AND AREA LIMITATIONS:<br>CONSTRUCTION TYPE: VB<br>GROUP: B - BUSINESS<br>- ALLOWABLE AREA (PER STORY) = 9,000 SF<br>- ALLOWABLE HEIGHT = 2 STORY<br>SECTION 505 - BUILDING AREA MODIFICATIONS:<br>- 506.3 AUTOMATIC SPRINKLER SYSTEM INCREASE 200%.  |         | F. ALTERATIONS OR REPAIRS TO ANY BUILDING OR STRUCTURE SHALL CONFORM WITH THE REQUIREMENTS OF THE PLAN REVIEW COMMENTS. ADDITIONS OR ALTERATIONS SHALL NOT BE MADE TO AN EXISTING STRUCTURE WHICH WILL CAUSE THE EXISTING BUILDING OR STRUCTURE TO BE IN VIOLATION OF ANY PROVISIONS APPLICABLE IN THE IBC.   |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| 1004 OCCUPANT LOAD (SEE SCHEDULE THIS SHEET & G003):<br>- 1ST STORY: 56 OCCUPANTS<br>- 2ND STORY: 28 OCCUPANTS<br>- TOTAL: 84 OCCUPANTS  |         | G. NEW FIRE SPRINKLER SYSTEM OR MODIFIED EXISTING FIRE SPRINKLER SYSTEM ARE TO BE IN COMPLIANCE WITH ADDED VERSIONS OF NFPA 13 AND NFPA 13R. THE SYSTEM SHALL BE APPROVED BY THE STATE FIRE MARSHAL AND LOCAL FIRE DEPARTMENT. WORK ON FIRE SPRINKLER SYSTEMS ARE TO BE CONDUCTED BY A LICENSED FIRE SPRINKLER CONTRACTOR. NEW SYSTEMS AND MODIFICATIONS TO EXISTING SYSTEMS REQUIRE SUBMISSION OF PLANS TO THE STATE FIRE MARSHAL'S OFFICE FOR REVIEW AND ACCEPTANCE PRIOR TO THE INSTALLATION OF ANY SYSTEM COMPONENTS. |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| MEANS OF EGRESS  |         | H. LIFE SAFETY LEGEND   |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| 1101.4.3 COMMON PATH OF EGRESS TRAVEL (SEE PLANS):<br>IN OCCUPANCIES OTHER THAN GROUPS: H-1, H-2, H-3, B, S, F, R-2, R-3 AND I-3, THE COMMON PATH OF EGRESS TRAVEL SHALL NOT EXCEED 75 FEET.<br>- MAXIMUM TRAVEL DISTANCE = 37'-11" (SEE PLANS)  |         |   |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| 1016.2 EXIT ACCESS (SEE PLANS):<br>THE EXIT DOORS SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN 1/3 OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED MEASURED IN A STRAIGHT LINE BETWEEN EXIT DOORS OR EXIT ACCESS DOORWAYS.<br>- EXCEPTION 2: WHERE A BUILDING IS EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM THE EXIT DOOR SHALL NOT BE LESS THAN 1/3 THE DIAGONAL DISTANCE.<br>- DIAGONAL DISTANCE = 83'-11" / 3 = 28'-0" MINIMUM   ACTUAL = 34'-7"   |         | I. BUILDING EXIT & OVERHEAD EXIT SIGNAGE PER JURISDICTION REQUIREMENTS  |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| 1016.2 EXIT ACCESS TRAVEL DISTANCE (SEE PLANS):<br>TYPE B OCCUPANCY WITH FIRE SPRINKLER = 300' PERMITTED FIRST FLOOR TRAVEL DISTANCE (WORST CASE) = 148'-0"<br>SECOND FLOOR TRAVEL DISTANCE (WORST CASE) = 79'-8"  |         | J. FIRE EXTINGUISHER - PROVIDE LARSEN'S MP10 FIRE EXTINGUISHER W/ VERTICAL DUO 2-1/2" SEMI-RECESSED CABINET OR APPROVED EQUAL.  |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| 1015.1.1 EXITS OR EXIT ACCESS DOORWAYS FROM SPACES (SEE PLANS):<br>(2) EXITS SHALL BE PROVIDED IN B OCCUPANCY UNDER 500 OCCUPANTS<br>- (2) REQUIRED - (3) PROVIDED   |         | K. START<br>STOP<br>EXIT ACCESS PATH<br>CONT. OF PATH FROM FLOOR ABOVE OR BELOW<br>DISTANCE<br>END EXIT ACCESS<br>COMMON PATH OF EGRESS TRAVEL<br>FIRE RATED WALL - SEE KEYNOTE 1 THIS SHEET.   |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| 1019.1 (TABLE) CORRIDOR FIRE-RESISTANCE RATING:<br>RATED CORRIDOR REQUIRED IN A, B, E, F, M, S, AND U, ARE NOT REQUIRED TO BE RATED IN BUILDINGS EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM.<br>- RATED CORRIDOR NOT REQUIRED.  |         | L. PLUMBING FIXTURE REQUIREMENTS:<br>SEE "PLUMBING FIXTURE REQUIREMENTS" (THIS SHEET) FOR DETAILED BREAKDOWN OF REQUIRED FIXTURES AND PROVIDED FIXTURES.  |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| 906.1 PORTABLE FIRE EXTINGUISHER(S) (SEE PLANS):<br>PROVIDE FIRE EXTINGUISHER(S) PER IBC REQUIREMENTS, TYPE A-1, MAX SPACING 75 LINEAL FEET (SEE PLANS).   |         | M. PROJECT INFORMATION:   |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| SEE "PLUMBING FIXTURE REQUIREMENTS" (THIS SHEET) FOR DETAILED BREAKDOWN OF REQUIRED FIXTURES AND PROVIDED FIXTURES.  |         |   |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| OCCUPANT LOAD:   |         | N. REVISIONS:   |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| <table border="1"> <thead> <tr> <th>NAME</th> <th>AREA</th> <th>OCCUPANCY TYPE</th> <th>OCCUPANCY LOAD FACTOR</th> <th>OCCUPANCY LOAD</th> </tr> </thead> <tbody> <tr> <td>2ND FLOOR</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>FITNESS</td> <td>738 SF</td> <td>B</td> <td>50</td> <td>15.06</td> </tr> <tr> <td>POLE</td> <td>34 SF</td> <td>ANCILLARY</td> <td>0</td> <td>0.00</td> </tr> <tr> <td>KITCHEN/ DINING</td> <td>623 SF</td> <td>B</td> <td>100</td> <td>6.33</td> </tr> <tr> <td>PANTRY</td> <td>72 SF</td> <td>S1</td> <td>300</td> <td>0.24</td> </tr> <tr> <td>JAN.</td> <td>22 SF</td> <td>S1</td> <td>300</td> <td>0.07</td> </tr> <tr> <td>RESTROOM</td> <td>62 SF</td> <td>ANCILLARY</td> <td>0</td> <td>0.00</td> </tr> <tr> <td>STAIR</td> <td>156 SF</td> <td>ANCILLARY</td> <td>0</td> <td>0.00</td> </tr> <tr> <td></td> <td>2305 SF</td> <td></td> <td></td> <td>27.80</td> </tr> </tbody> </table> |         | NAME  | AREA                  | OCCUPANCY TYPE | OCCUPANCY LOAD FACTOR | OCCUPANCY LOAD | 2ND FLOOR |  |  |  |  | FITNESS | 738 SF | B | 50 | 15.06 | POLE | 34 SF | ANCILLARY | 0 | 0.00 | KITCHEN/ DINING | 623 SF | B | 100 | 6.33 | PANTRY | 72 SF | S1 | 300 | 0.24 | JAN. | 22 SF | S1 | 300 | 0.07 | RESTROOM | 62 SF | ANCILLARY | 0 | 0.00 | STAIR | 156 SF | ANCILLARY | 0 | 0.00 |  | 2305 SF |  |  | 27.80 | O. MARK   DATE   DESCRIPTION |  |
| NAME   | AREA    | OCCUPANCY TYPE  | OCCUPANCY LOAD FACTOR | OCCUPANCY LOAD |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| 2ND FLOOR  |         |   |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| FITNESS  | 738 SF  | B   | 50                    | 15.06          |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| POLE   | 34 SF   | ANCILLARY   | 0                     | 0.00           |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| KITCHEN/ DINING  | 623 SF  | B   | 100                   | 6.33           |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| PANTRY   | 72 SF   | S1  | 300                   | 0.24           |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| JAN.   | 22 SF   | S1  | 300                   | 0.07           |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| RESTROOM   | 62 SF   | ANCILLARY   | 0                     | 0.00           |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| STAIR  | 156 SF  | ANCILLARY   | 0                     | 0.00           |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
|  | 2305 SF |   |                       | 27.80          |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| P. PROJECT PHASE   75% CD's  |         | P. PROJECT PHASE   75% CD's   |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| PROJECT NUMBER   15-28   |         | PROJECT NUMBER   15-28  |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| PROJECT MANAGER   R. TeBeau  |         | PROJECT MANAGER   R. TeBeau   |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| PROJECT ARCHITECT   R. TeBeau  |         | PROJECT ARCHITECT   R. TeBeau   |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| DESIGN   B. Harris / R. TeBeau   |         | DESIGN   B. Harris / R. TeBeau  |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| DRAWN BY   M. Joseph   |         | DRAWN BY   M. Joseph  |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| Q. SHEET NAME:   |         | Q. SHEET NAME:  |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| R. SHEET NUMBER:   |         | R. SHEET NUMBER:  |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| S. 01.29.16  |         | S. 01.29.16   |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| T. 1   |         | T. 1  |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| U. 2   |         | U. 2  |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| V. 3   |         | V. 3  |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| W. 4   |         | W. 4  |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| X. 5   |         | X. 5  |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| Y. 6   |         | Y. 6  |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |
| Z. 7   |         | Z. 7  |                       |                |                       |                |           |  |  |  |  |         |        |   |    |       |      |       |           |   |      |                 |        |   |     |      |        |       |    |     |      |      |       |    |     |      |          |       |           |   |      |       |        |           |   |      |  |         |  |  |       |                              |  |

| NAME            | AREA    | OCCUPANCY TYPE | OCCUPANCY LOAD FACTOR | OCCUPANCY LOAD |
|-----------------|---------|----------------|-----------------------|----------------|
| 2ND FLOOR       |         |                |                       |                |
| FITNESS         | 738 SF  | B              | 50                    | 15.06          |
| POLE            | 34 SF   | ANCILLARY      | 0                     | 0.00           |
| KITCHEN/ DINING | 623 SF  | B              | 100                   | 6.33           |
| PANTRY          | 72 SF   | S1             | 300                   | 0.24           |
| JAN.            | 22 SF   | S1             | 300                   | 0.07           |
| RESTROOM        | 62 SF   | ANCILLARY      | 0                     | 0.00           |
| STAIR           | 156 SF  | ANCILLARY      | 0                     | 0.00           |
|                 | 2305 SF |                |                       | 27.80          |

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ARCHITECT:

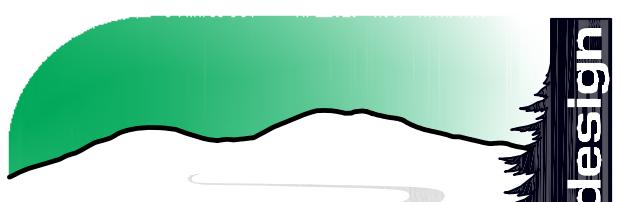
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COLE ARCHITECTS | 802 W. BANNOCK SUIT 208  
Boise, ID 83702 | (208) 345-1800

The logo consists of three large, black, serif capital letters 'T', 'C', and 'A' arranged horizontally. The central letter 'C' is set within a solid red square.

**NOT FOR CONSTRUCTION**

**CONSULTANT:**



- Landscape Architecture
- Erosion & Sediment Control
- Geographic Info Systems
- Graphic Communication
- Water Management
- Irrigation Design
- Land Planning

www.breckonlanddesign.com  
Fax: 208-376-6528  
Phone: **208-376-5153**

181 East 50th Street  
Garden City, Idaho 83714

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# **City of Boise Fire Station 8**

## REVISIONS:

| PROJECT PHASE     | Project Status |
|-------------------|----------------|
| PROJECT NUMBER    | 15045          |
| PROJECT MANAGER   | R. TeBeau      |
| PROJECT ARCHITECT | R. TeBeau      |
| DESIGN            |                |
| DRAWN BY          | BS, LP, TC     |

SHEET NAME:

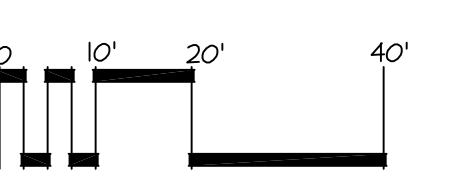
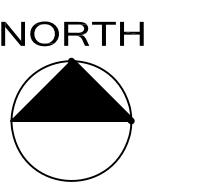
## SITE SURVEY

SHEET NUMBER:

C1.10

# 1 SITE SURVEY

SCALE: 1" = 20'-0"



## TREE PROTECTION NOTES:

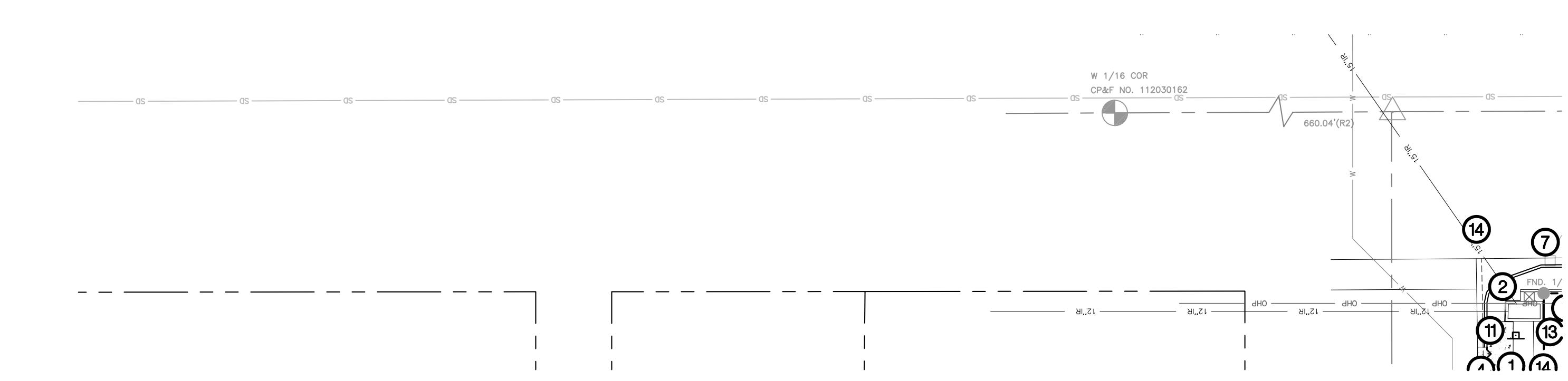
1. PROTECT THE CRITICAL ROOT ZONE (THE AREA DIRECTLY BELOW THE DRIP LINE OF THE TREE) OF THE TREES TO REMAIN ON SITE BY:
  - a. CONSTRUCTING A TEMPORARY CHAIN LINK FENCE AROUND THE CRITICAL ROOT ZONE OF THE TREE TO BE PROTECTED PRIOR TO DEMOLITION, CONSTRUCTION, OR ANY SITE WORK.
  - b. NOT ALLOWING COMPACTION BY EQUIPMENT TRAFFIC DURING CONSTRUCTION OR DURING DEMOLITION.
  - c. NOT ALLOWING CONCRETE TRUCKS TO RINSE WITHIN THE PROTECTION AREA, OR ANYWHERE NEAR EXISTING TREE ROOTS OR IN PLANNED PLANTING BEDS AREAS, WASHOUT AREAS, AND SEDIMENT CONTROL PLAN FOR APPROVED CONCRETE WASHOUT AREAS.
  - d. NOT STOCKPILING MATERIALS, DEBRIS, OR DIRT WITHIN THE TREE PROTECTION AREA.
  - e. WATERING WITHIN THE CRITICAL ROOT ZONE FROM MID-APRIL TO MID-OCTOBER AT THE RATE OF NOT LESS THAN THE EQUIVALENT OF 1-1/2" OF WATER OVER THE ENTIRE AREA PER WEEK.
  - f. NOT MACHINING, EXCAVATING, FILLING, OR OTHERWISE DISTURBING THE SOIL WITHIN THE CRITICAL ROOT ZONE.
2. ADJUST PROPOSED IMPROVEMENT LOCATIONS AS REQUIRED TO AVOID DAMAGING TREE ROOTS.
3. PROTECT THE CROWN AND TRUNK OF TREES TO BE RETAINED BY:
  - a. OPERATING EQUIPMENT IN SUCH A WAY AS TO AVOID CONTACT WITH TREE TRUNK OR BRANCHES.
  - b. HAVING TREES PRUNED BY A LICENSED ARBORIST.
4. ALL TREES DAMAGED OR DESTROYED DURING CONSTRUCTION SHALL BE REPLACED USING THE FOLLOWING CRITERIA:

| EXISTING TREE           | REPLACEMENT                  |
|-------------------------|------------------------------|
| 1" TO 4" CALIPER        | 2X CALIPER OF TREE REMOVED   |
| 6" TO 12" CALIPER       | 1.5X CALIPER OF TREE REMOVED |
| > 12" OR LARGER CALIPER | IX CALIPER OF TREE REMOVED   |

EXAMPLE: IF AN 8" CALIPER TREE IS REMOVED, AN ACCEPTABLE REPLACEMENT WOULD BE (3) 4" CALIPER TREES OR (4) 3" CALIPER TREES.

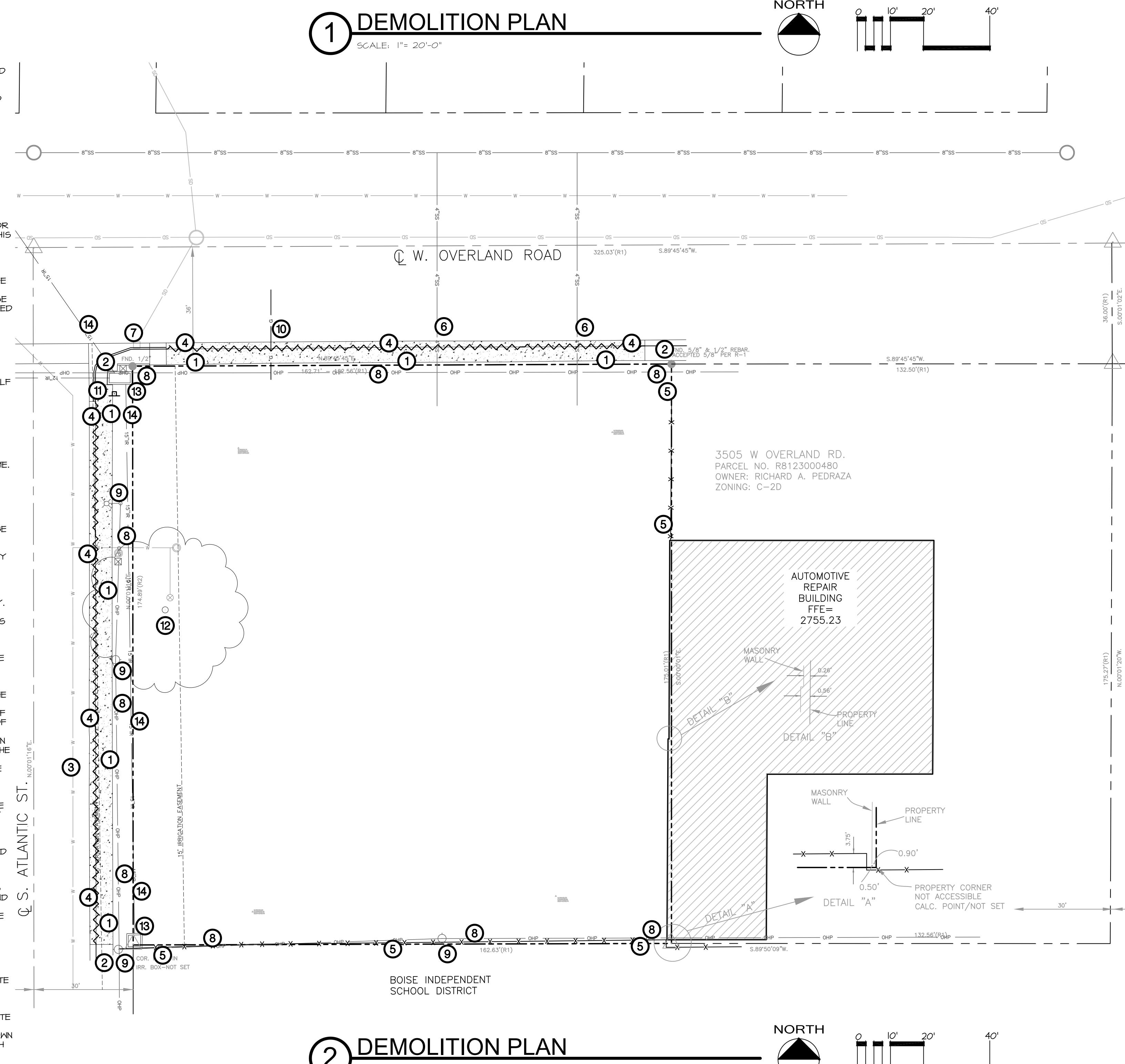
## SUMMARY NOTES

1. LIMITS OF WORK ARE IDENTIFIED ON PLANS.
2. TECHNICAL SPECIFICATIONS ARE AN INTEGRAL PART OF THESE DRAWINGS. UPON SUBMITTAL OF A BID PRICE BY THE CONTRACTOR, IT IS RECOGNIZED THAT THE CONTRACTOR HAS REVIEWED THE TECHNICAL SPECIFICATIONS AND THE CONTRACTOR AGREES TO ABIDE BY THE REQUIREMENTS AND CONDITIONS CONTAINED THEREIN. THIS INCLUDES SPECIFICATIONS FOR THE WORK, INCLUDING DIVISION ONE SECTIONS AND SPECIFICATIONS FOUND ON THE DRAWINGS.
3. THE CONTRACTOR SHALL AT ALL TIMES COORDINATE HIS WORK WITH THAT OF OTHERS ON THE SITE. THE CONTRACTOR SHALL HAVE A RESPONSIBLE PARTY WHO SHALL HAVE THE AUTHORITY TO REPRESENT AND ACT FOR THE CONTRACTOR ON THE JOB SITE DURING ALL WORKING HOURS.
4. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK INDICATED IN THESE PLANS AND SPECIFICATIONS. ANY ITEM INDICATED IN THESE PLANS, BUT NOT ITEMIZED IN THE BID SCHEDULE, WILL BE INCLUDED UNDER A BID SCHEDULE ITEM TO WHICH IT MOST PERTAINS.
5. THE CONTRACTOR SHALL EXAMINE THE SITE, COMPARE IT WITH THE PLANS AND SPECIFICATIONS, CAREFULLY EXAMINE ALL OF THE CONTRACT DOCUMENTS, AND SATISFY HIMSELF AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED BEFORE SIGNING INTO CONTRACT. NO ALLEGANCE SHOULD SUBSEQUENTLY BE MADE ON BEHALF OF THE CONTRACTOR OR ACCOUNT OF AN ERROR ON HIS PART AND/OR HIS NEGLIGENCE AND/OR FAILURE TO ACQUAINT HIMSELF WITH THE CONDITIONS OF THE SITE.
6. THE CONTRACTOR SHALL CONTACT DIALINE 12 HOURS PRIOR TO ANY EXCAVATION. 1-800-342-1585.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING SIDEWALKS OR SIDEWALKS DURING THE CONSTRUCTION OF THIS PROJECT, AND SHALL REPAIR SUCH DAMAGE TO THE SATISFACTION OF THE GOVERNING AGENCY, AT NO EXTRA COST TO THE OWNER.
8. ALL MATERIALS AND FINISHES SHALL BE AS PER DRAWINGS, DETAILS AND SPECIFICATIONS. SOME MATERIALS MAY REQUIRE SEVERAL WEEK ORDER LEAD TIME. CONTRACTOR IS RESPONSIBLE FOR DETERMINING ANY AND ALL ORDERING LEAD TIME. THE CONTRACTOR IS RESPONSIBLE FOR DELIVERING MATERIALS IN A TIMELY MANNER. NO UNAPPROVED SUBSTITUTIONS WILL BE ALLOWED. CONTACT BRECKON LAND DESIGN IMMEDIATELY IF A SPECIFIED MATERIAL IS NOT AVAILABLE.
9. ALL EXISTING CONDITIONS AND STRUCTURES, NOT SPECIFICALLY NOTED FOR REMOVAL, SHALL BE RETAINED AND PROTECTED. EXISTING CONDITIONS AND STRUCTURES THAT ARE DAMAGED DURING THE COURSE OF CONSTRUCTIONS SHALL BE REPAIRED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
10. ALL CONTRACTORS WORKING WITHIN THE PUBLIC RIGHT-OF-WAY ARE REQUIRED TO SECURE A RIGHT-OF-WAY CONSTRUCTION PERMIT, AT LEAST 12 HOURS PRIOR TO ANY CONSTRUCTION.
11. ALL CONSTRUCTION IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE LATEST EDITION OF THE ISPSC AND THE GOVERNING AGENCY'S SPECIFICATIONS. NO EXCEPTIONS TO THESE STANDARDS WILL BE ALLOWED UNLESS SPECIFIED IN THE CONTRACT DOCUMENTS AND JUSTIFIED BY THE GOVERNING AGENCY.
12. THE CONTRACTOR SHALL PERFORM ALL CLEARING AND SITE PREPARATION NECESSARY FOR THE PROPER EXECUTION OF ALL WORK INDICATED ON THESE PLANS AND SPECIFICATIONS.
13. ALL WORK IS TO BE PERFORMED BY LICENSED CONTRACTORS AND EXPERIENCED WORKERS.
14. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS NECESSARY TO COMPLETE THE WORK UNLESS OTHERWISE NOTED.
15. CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES.
16. ALL WORK SHALL CONFORM TO THE GEOTECHNICAL ENGINEERING SPECIFICALLY PREPARED FOR THIS PROJECT. CONTACT THE ARCHITECT TO OBTAIN A COPY OF THE REPORT.
17. BRECKON LAND DESIGN, INC. DOES NOT AND CANNOT GUARANTEE THE ACCURACY OF WORK DONE BY OTHERS AND INCLUDES THIS INFORMATION FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR IS RESPONSIBLE TO CONTACT THE OWNER'S REPRESENTATIVE TO REQUEST CLARIFICATION OF DISCREPANCIES BETWEEN THE INFORMATION SHOWN ON THIS PLAN AND INFORMATION SHOWN ELSEWHERE. IN THE EVENT THE CONTRACTOR PROCEEDS WITH CONSTRUCTION WITHOUT OFFICIAL CLARIFICATION FROM THE OWNER'S REPRESENTATIVE, HE SHALL BE LIABLE FOR THE COST OF CONCRETE WORK AND SHALL REPAIR OR RECONSTRUCT THE FAULTY WORK TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.
18. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING, ERECTING AND MAINTAINING THE REQUIRED MATERIALS, EQUIPMENT AND MANPOWER NECESSARY FOR PUBLIC SAFETY AND TRAFFIC CONTROL WITHIN THE PROJECT LIMITS AND ON THE APPROACHES TO THE PROJECT.
19. THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR SHALL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, AND THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD HARMLESS THE GOVERNING AGENCY, PROPERTY AND ALL THIRD PARTIES, REAL AND ALLEGED, CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
20. IF ANY ARCHAEOLOGICAL, CULTURAL OR HISTORICAL RESOURCES, OR ARTIFACTS OR OTHER FEATURES ARE DISCOVERED DURING THE COURSE OF CONSTRUCTION ANYWHERE ON THE PROJECT SITE, WORK SHALL BE SUSPENDED IN THAT LOCATION UNTIL QUALIFIED PROFESSIONAL ARCHAEOLOGISTS DETERMINE THE SIGNIFICANCE OF THE DISCOVERY. THE OWNER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCOVERY IN CONSULTATION WITH THE ARCHAEOLOGIST AND THE GOVERNING AGENCY. APPROPRIATE MEASURES FOR PRESERVATION SHALL BE ESTABLISHED PRIOR TO THE COMMENCEMENT OF WORK.
21. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ON THESE PLANS ARE APPROXIMATE. REASONABLE EFFORTS HAVE BEEN MADE TO LOCATE AND DELINEATE ALL UNDERGROUND FACILITIES. HOWEVER, BRECKON LAND DESIGN INC. ASSUMES NO LIABILITY FOR THE ACCURACY OR COMPLETENESS OF THE EXISTING UTILITIES SHOWN HERE OR FOR THE EXISTENCE OF OTHER UNDERGROUND UTILITIES OR OBJECTS WHICH MAY BE DISCOVERED BUT ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ANY EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES TO CONCRETE DUE TO FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
22. IN THE EVENT OF A DISCREPANCY, NOTIFY BRECKON LAND DESIGN IMMEDIATELY.



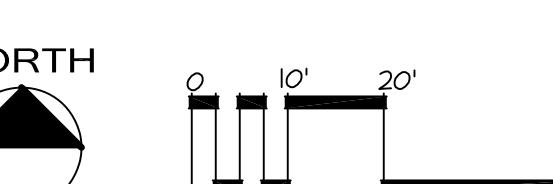
## ① DEMOLITION PLAN

SCALE: 1" = 20'-0"

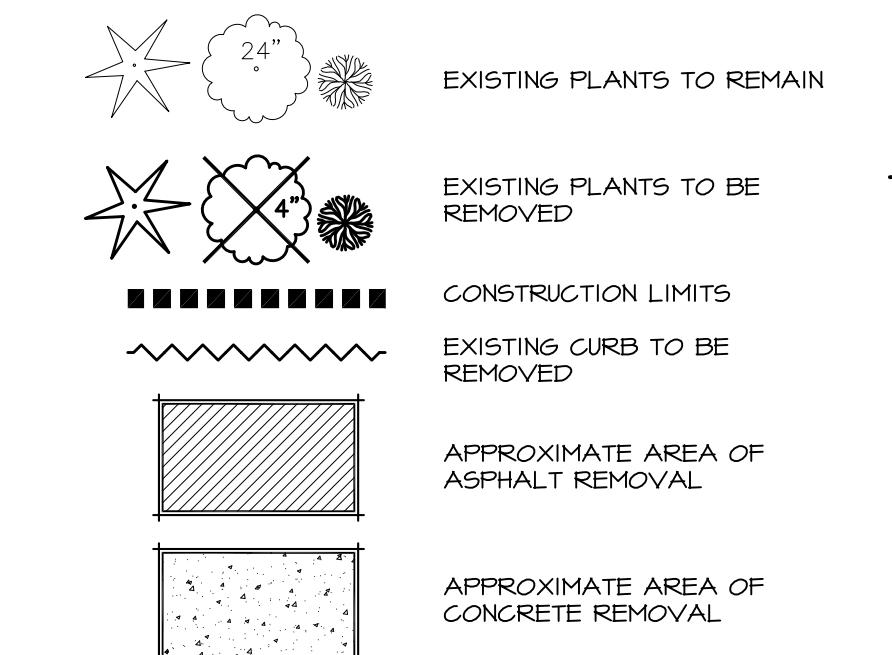


## ② DEMOLITION PLAN

SCALE: 1" = 20'-0"



## DEMOLITION LEGEND



## DEMOLITION NOTES

1. COORDINATE ALL DEMOLITION, GRADING, AND EARTHWORK OPERATIONS WITH MECHANICAL AND ELECTRICAL ENGINEERING SHEETS.
2. CONTRACTOR SHALL REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL REQUIREMENTS.
3. LIMITS OF WORK ARE IDENTIFIED ON PLANS.
4. IN THE EVENT OF A DISCREPANCY, NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY.

## DEMOLITION CALLOUT LEGEND

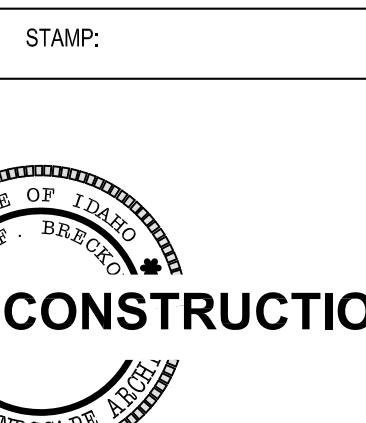
- ① SANCUT AND REMOVE EXISTING CONCRETE FLAT WORK AS INDICATED. COORDINATE WITH LAYOUT PLAN.
- ② SAVE AND PROTECT EXISTING CONCRETE FLAT WORK.
- ③ SANCUT AND REMOVE EXISTING ASPHALT.
- ④ SANCUT AND REMOVE CONCRETE CURB.
- ⑤ SAVE AND PROTECT EXISTING CHAIN LINK FENCE.
- ⑥ SAVE AND PROTECT EXISTING SANITARY SEWER SERVICE.
- ⑦ SAVE AND PROTECT EXISTING STORM DRAIN INLET AND ASSOCIATED PIPING.
- ⑧ SAVE AND PROTECT EXISTING UNDERGROUND AND OVERHEAD POWER LINES.
- ⑨ SAVE AND PROTECT EXISTING POWER POLE, LIGHT POLE AND GUY WIRES.
- ⑩ SAVE AND PROTECT EXISTING GAS LINE.
- ⑪ SAVE AND PROTECT EXISTING SIGN.
- ⑫ SAVE AND PROTECT EXISTING TREE AND TREE ROOTS. ALL EXCAVATION WITHIN THE DRIP LINE SHALL BE HAND DUG. SEE TREE PROTECTION NOTES FOR ADDITIONAL REQUIREMENTS.
- ⑬ SAVE AND PROTECT CONCRETE GRAVITY IRRIGATION BOX.
- ⑭ SAVE AND PROTECT EXISTING 15" IRRIGATION PIPE.

Know where below.  
Call before you dig.  
Call 2 business days  
in advance before  
you dig to have  
excavated for the  
protection of  
underground  
member utilities

COLE ARCHITECTS  
COLE ARCHITECTS | 802 W. BANNOCK SUITE 208  
Boise, ID 83702 | (208) 345-1800

T C A  
architecture • planning

TCA | 811 Roosevelt Way NE  
Seattle, WA 98115 | (208) 522-3820



CONSULTANT:

BRECKON land design  
• Landscape Architecture www.breckonlanddesign.com  
• Erosion & Sediment Control Fax 208-376-5153  
• Geographic Info Systems Phone 208-376-5153  
• Graphic Communication 181 East 50th Street  
• Water Management Garden City, Idaho 83714  
• Irrigation Design  
• Land Planning



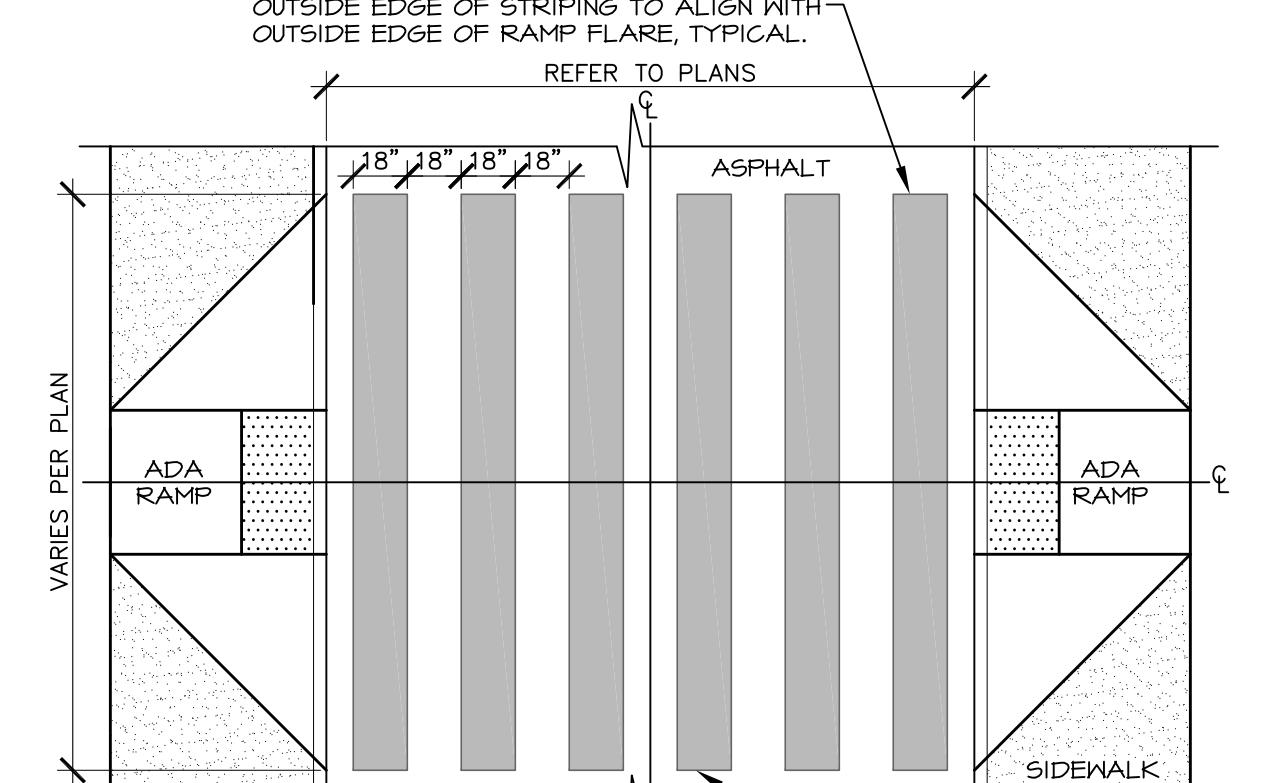
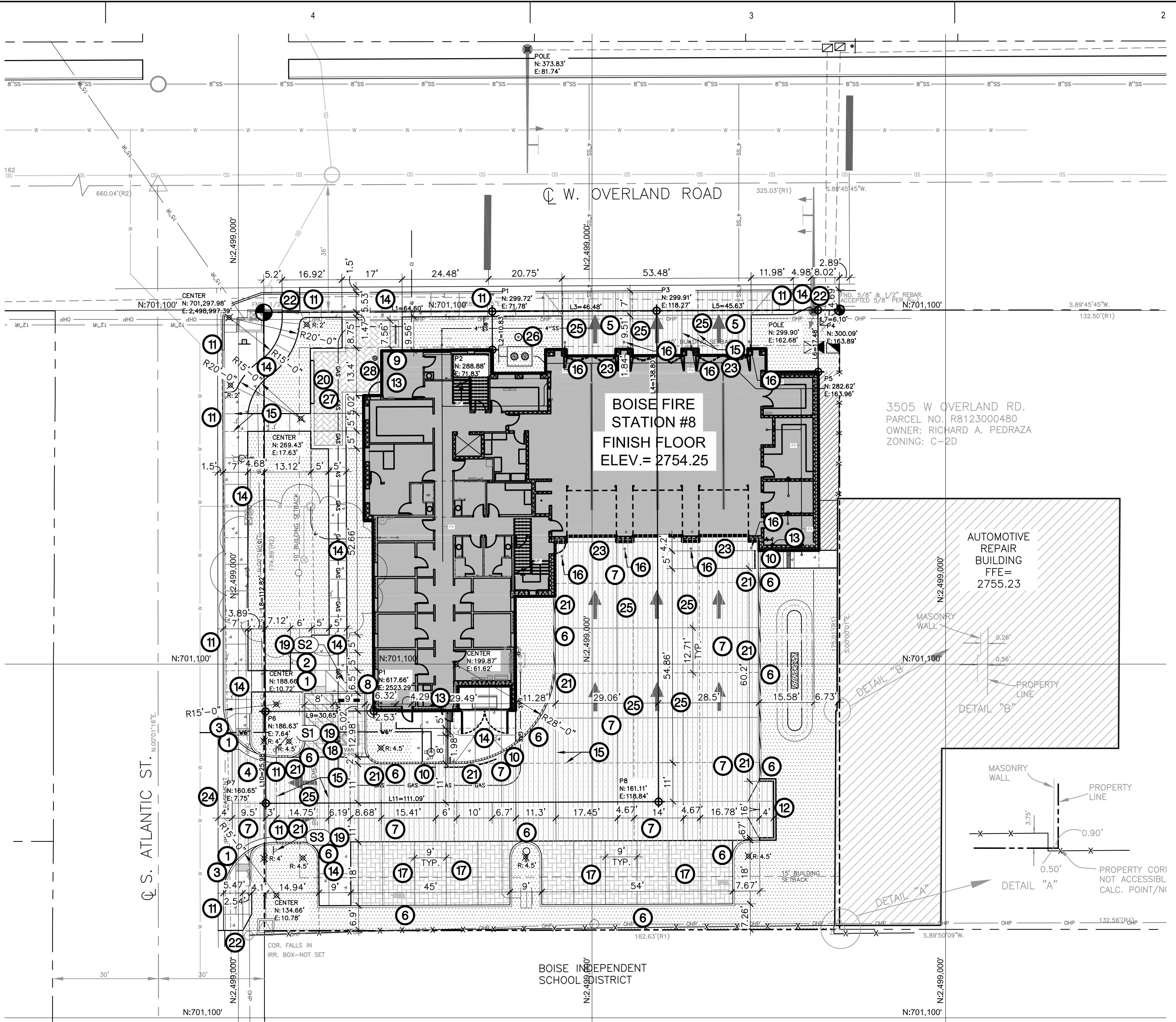
City of Boise Fire Station 8  
3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

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## DEMOLITION PLAN

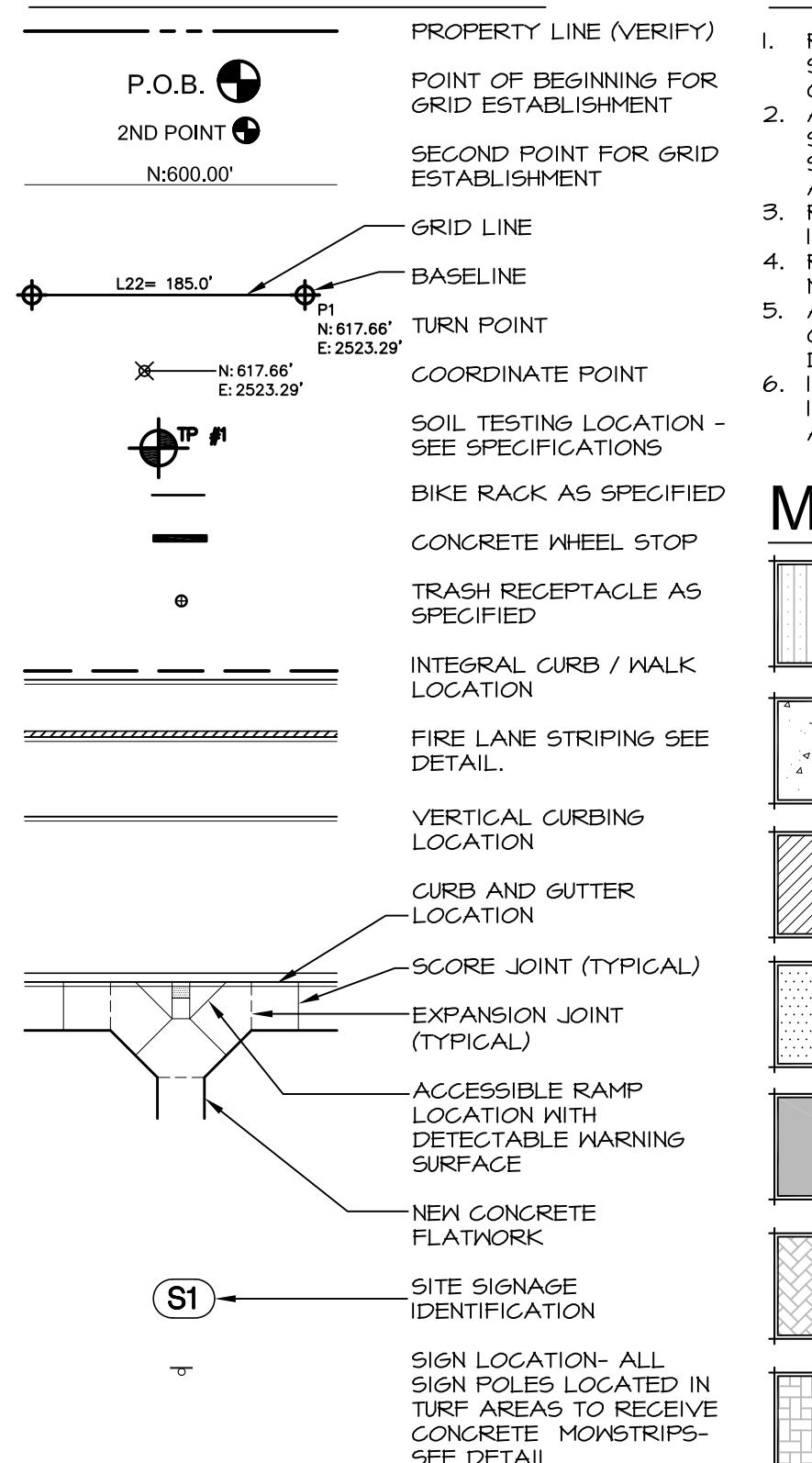
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**1** **CROSSWALK STRIPING**

**Scale: 3/16" = 1'-0"**

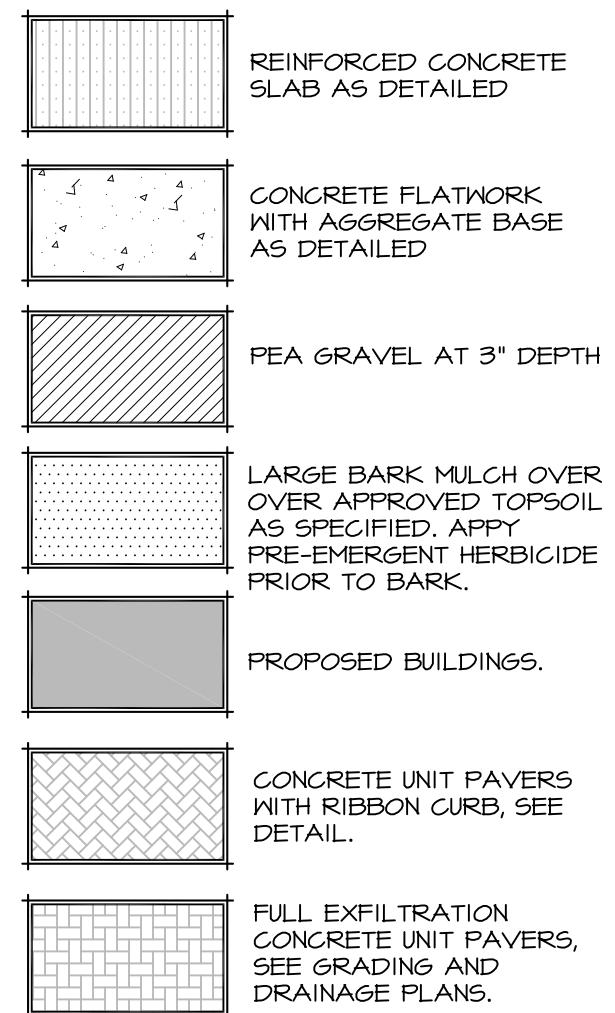
## LAYOUT LEGEND



## MATERIAL NOTES

1. REFER TO DETAIL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.
2. ALL ACCESSIBLE PARKING STALLS AND SIGNS SHALL CONFORM TO ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS FOR ACCESSIBLE PARKING.
3. REFER TO DETAIL DRAWINGS FOR INSTALLATION OF ALL SIGNS.
4. REFER TO PLANTING PLANS FOR 'SOFT' MATERIAL LOCATIONS.
5. ALL SIGNS SHALL BE THE SIZE LISTED. COLORS TO BE DETERMINED UPON SHOP DRAWING SUBMITTAL.
6. IN THE EVENT OF A DISCREPANCY, IMMEDIATELY NOTIFY LANDSCAPE ARCHITECT.

## MATERIAL LEGEND



## PAINTED STRIPING

ALL PAINT TO BE 100% ACRYLIC MARKING PAINT, MEETING FEDERAL SPECIFICATIONS TTP 1452 TYPES 1 AND 2.  
ALL SURFACES SCHEDULED TO RECEIVE PAINT FINISH: REMOVE ALL LOOSE PARTS, SCRAP, DIRT, OR ALKALI POWDER AND OTHER FOREIGN MATERIAL. REMOVE OIL AND GREASE WITH A SOLUTION OF TRI-SODIUM PHOSPHATE, RINSE WELL AND ALLOW TO DRY. REMOVE STAINS CAUSED BY WEATHERING OF CODING METALS WITH A SOLUTION OF SODIUM METASILICATE AFTER THOROUGHLY WETTING WITH WATER. ALLOW TO DRY.

PAINTED STRIPING ON ASPHALT PAVING PARKING STALL STRIPES TO BE 4" NIDE WIDE. OTHER STRIPES NOT OTHERWISE, A. HANDICAP SYMBOL SHALL BE PAINTED STANDARD BLUE. B. "NO PARKING - FIRE ZONE" SHALL BE PAINTED RED.

PAINTED ARROWS, VERIFY EXACT LOCATION ON SITE WITH LANDSCAPE ARCHITECT. SEE DETAIL.

## CALLOUT LEGEND

1. DETECTABLE WARNING, INSTALL PER MANUFACTURER'S RECOMMENDATIONS, SEE DETAIL 1/L1.35.
2. TYPE ONE ADA RAMP SEE DETAIL 2/L1.35.
3. TYPE TWO ADA RAMP SEE DETAIL 3/L1.35.
4. DRIVEWAY APPROACH TYPE ONE, SEE DETAIL 4/L1.35.
5. DRIVEWAY APPROACH TYPE ONE, SEE DETAIL 5/L1.35.
6. 6" CONCRETE VERTICAL CURB, SEE DETAIL 6/L1.36.
7. REINFORCED CONCRETE FLATWORK, SEE DETAIL 9/L1.35.
8. CONCRETE PARKING BUMPER, LOCATE 3'-0" FROM HEAD OF PARKING STALL, SEE DETAIL 5/L1.36.
9. BIKE RACK, SEE DETAIL 1/L1.30.
10. INTEGRAL CURB AND SIDEWALK, SEE DETAIL 4/L1.36.
11. 24" CURB AND GUTTER, SEE DETAIL 3/L1.36.
12. TRASH ENCLOSURE, SEE ARCHITECTURAL PLANS.
13. CONCRETE FLATWORK AT BUILDING, SEE DETAIL 5/L1.35.
14. CONCRETE FLATWORK, SEE DETAIL 6/L1.35 (TYP.)
15. CONCRETE JOINTS, SEE DETAIL 7/L1.35.
16. STEEL BOLLARD LOCATION, SEE DETAIL 7/L1.36.
17. 4" WIDE WHITE PARKING LOT STRIPING, SEE DETAIL 10/L1.36.
18. ACCESSIBLE PARKING STALL LAYOUT, SEE DETAIL 11/L1.36.
19. SIGN POST AND FOOTING, SEE DETAIL 14/L1.36, TYPICAL.
20. CONCRETE SEAT WALL, SEE DETAIL 2/L1.36.
21. FIRE LANE STRIPING, SEE DETAIL 9/L1.36.
22. CONCRETE FLATWORK AT EXISTING CONCRETE, SEE DETAIL 8/L1.35.
23. REINFORCED CONCRETE FLATWORK AT BUILDING, SEE DETAIL 9/L1.35.
24. 4"-0" CONCRETE VALLEY GUTTER, SEE DETAIL 11/L1.35.
25. PAINTED ARROWS, SEE DETAIL 8/L1.36.
26. FLAGPOLE AND FOOTING, SEE DETAIL 13/L1.36.
27. UNIT PAVER WITH CONCRETE ACCENT STRIP, SEE DETAIL 1/L1.36.
28. TRASH RECEPTACLE AS SPECIFIED.

811

Knowledge Below. Call before you dig.  
Call 2 business days in advance before you dig to have underground member utilities located.

COLE ARCHITECTS

COLE ARCHITECTS | 802 W. BANNOCK SUITE 208  
Boise, ID 83702 | (208) 345-1800

TCA

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TCA | 811 Roosevelt Way NE  
Seattle, WA 98115 | (208) 522-3820

STAMP:

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CONSULTANT:

BRECKON land design

Landscape Architecture • Erosion & Sediment Control • Geographic Info Systems • Graphic Communication • Water Management • Irrigation Design • Land Planning

www.breckonlanddesign.com  
Phone: 208-376-5153  
181 East 50th Street  
Garden City, Idaho 83744

PROJECT INFORMATION:



**City of Boise Fire Station 8**

3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
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PROJECT PHASE

Project Status

PROJECT NUMBER 15045

PROJECT MANAGER R. TeBeau

PROJECT ARCHITECT R. TeBeau

DESIGN JB

DRAWN BY BS, LP, TC

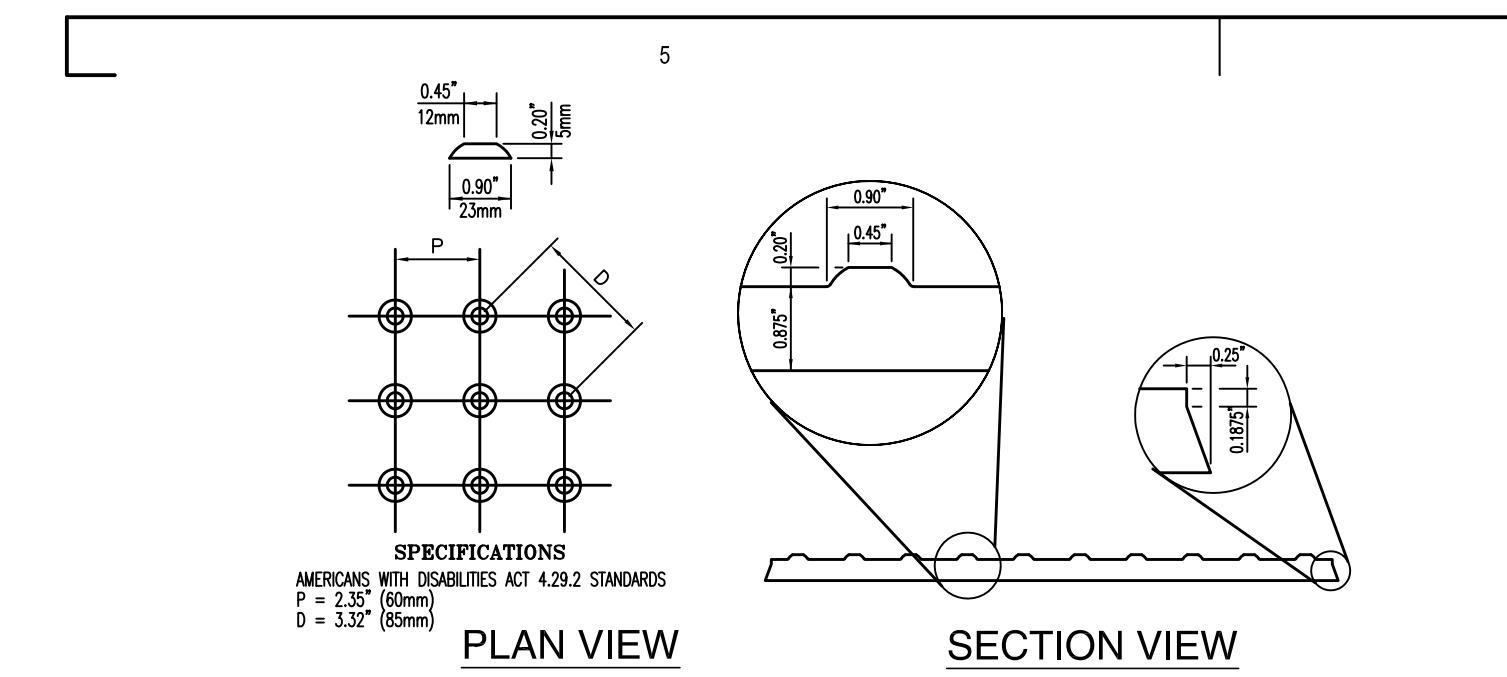
SHEET NAME:

**LAYOUT AND MATERIALS PLAN**

SHEET NUMBER:

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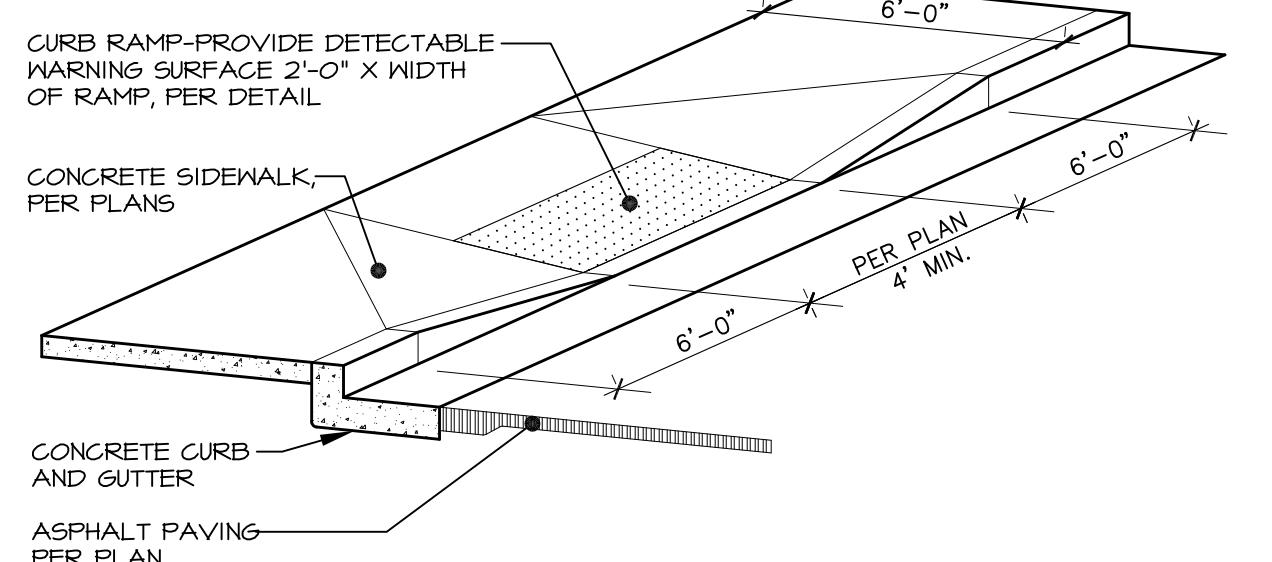
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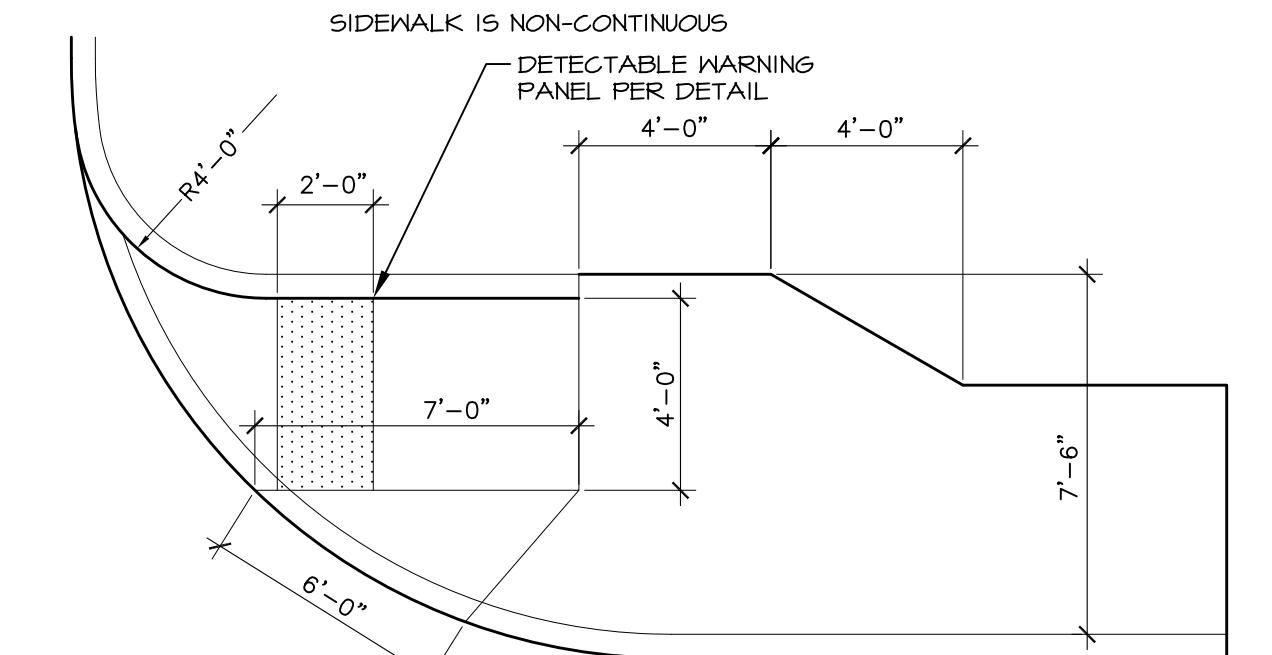
**NOTE:**

1. THICKEN CONCRETE SLAB UNDER TACTILE PANEL.
2. CASTINACT DETECTABLE WARNING PANEL AS MANUFACTURED BY MASCO, OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

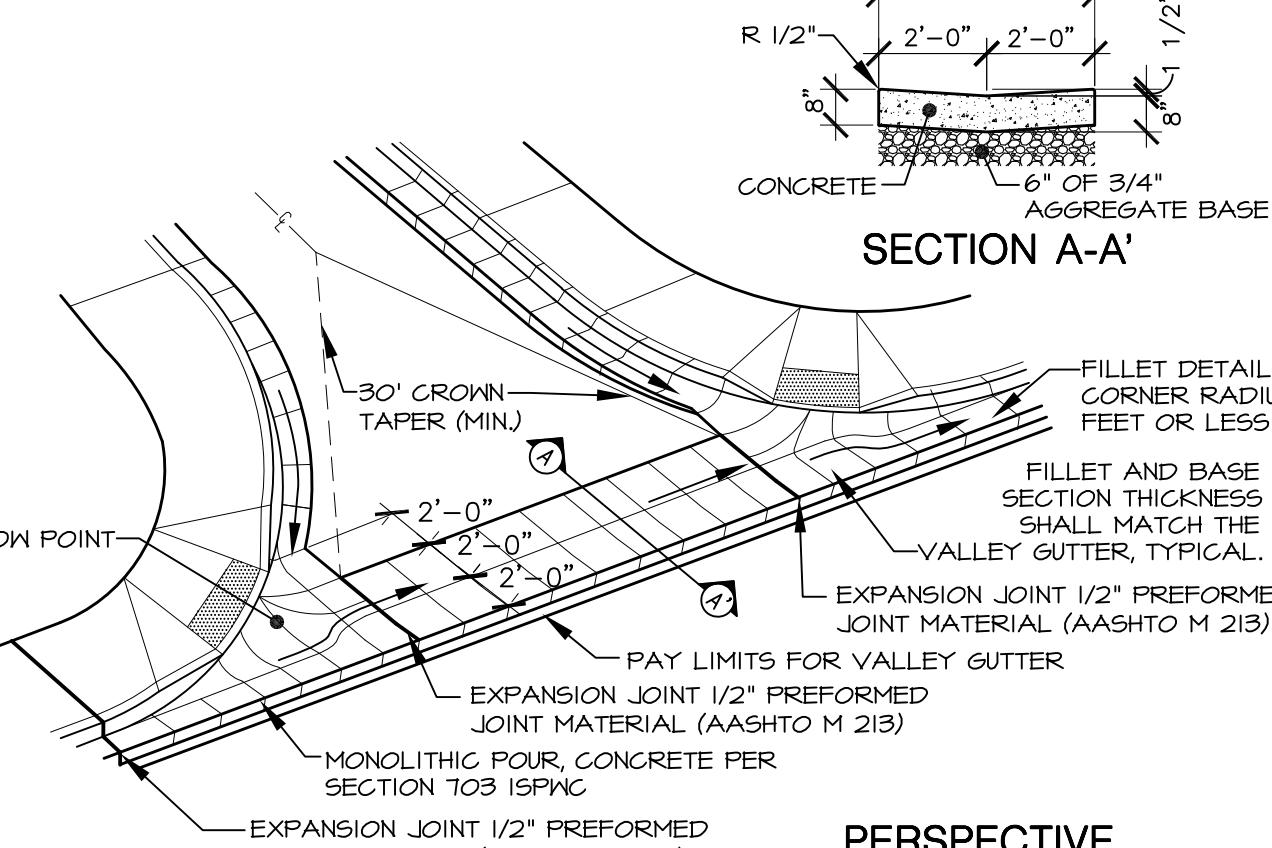
## 1 DETECTABLE WARNING PANEL (TRAFFIC YELLOW)



## 2 ADA RAMP (TYPE ONE)



## 3 ADA RAMP (TYPE TWO)



## 4 DRIVEWAY APPROACH (TYPE ONE)

NOT TO SCALE

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## CITY OF BOISE UTILITY NOTES

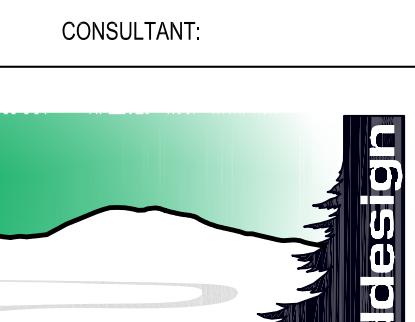
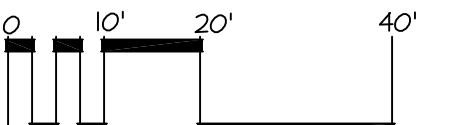
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST SEWER SPECIFICATIONS AND STANDARD DRAWINGS OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPMC), BOISE CITY PUBLIC WORKS DEPARTMENT AND/OR THE ADA COUNTY HIGHWAY DISTRICT (AHD) MODIFICATIONS TO THE ISPMC.
- THE CONTRACTOR SHALL CONSTRUCT THE SANITARY SEWER IN ACCORDANCE WITH THE STAMPED PLANS APPROVED BY THE BOISE CITY PUBLIC WORKS DEPARTMENT. THESE PLANS WILL BE PROVIDED TO THE CONTRACTOR BY THE PROJECT INSPECTOR PRIOR TO CONSTRUCTION. WORK SHALL NOT BE DONE WITHOUT THE CURRENT SET OF APPROVED PLANS.
- THE APPROVAL AND ACCEPTANCE OF ALL SEWER CONSTRUCTION WILL BE BY THE BOISE CITY PUBLIC WORKS DEPARTMENT.
- SEWER INSPECTIONS WILL BE BY THE BOISE CITY PUBLIC WORKS DEPARTMENT AND THEIR DECISIONS SHOULD BE CONSIDERED AS FINAL. THE CONTRACTOR WILL NOTIFY THE CITY PUBLIC WORKS DEPARTMENT 48 HOURS PRIOR TO CONSTRUCTION. BOISE CITY WILL PROVIDE PERIODIC INSPECTIONS FOR AN EIGHT HOUR PERIOD FROM 7:00 AM TO 5:00 PM FOR A FORTY HOUR WEEK. THE CONTRACTOR SHALL REIMBURSE THE CITY AT RATES ESTABLISHED BY THE CITY FOR INSPECTION IN EXCESS OF THE NORMAL WORK WEEK, INCLUDING LEGAL HOLIDAYS. OVERTIME INSPECTION RATES AND A LIST OF LEGAL HOLIDAYS CAN BE OBTAINED FROM THE BOISE CITY PUBLIC WORKS DEPARTMENT.
- SEWER CONSTRUCTION SHALL MEET SPECIFIC DETAILS AND REQUIREMENTS OF THE ISPMC AND STANDARD DRAWINGS OF PUBLIC WORKS CONSTRUCTION:
  - STANDARD MANHOLE - TYPE D DRAWING NO. SD-501.
  - STANDARD SHALLOW MANHOLE, DRAWING NO. SD-505.
  - MANHOLE COVER & FRAME, DRAWING NO. SD-507.
  - MANHOLE COLLAR DETAIL, DRAWING NO. SD-511-A.
  - STANDARD SEWER SERVICE LINE, DRAWING NO. SD-511-A.
- GROUNDWATER LEVELS SHALL BE MAINTAINED BELOW THE BOTTOM OF THE TRENCH DURING THE PIPE LAYING AND PIPE JOINING OPERATIONS. ALL MANHOLES LOCATED WITHIN LIMITS OF SEASONAL GROUNDWATER SHALL HAVE THE EXTERIOR OF ALL CONCRETE SURFACES COATED WITH TWO COATS OF COAL TAR EPOXY.
- THE CONTRACTOR SHALL INSTALL A REMOVABLE PLUG UPSTREAM OF 8SMH BY 8SMH, 8SMH, 8SMH, AND 8SMH. THIS PLUG SHALL REMAIN IN PLACE DURING CONSTRUCTION UNTIL FINAL ACCEPTANCE OF THIS SEWER PROJECT.
- SERVICE LINES SHALL BE MARKED IN ACCORDANCE WITH THE SPECIFICATIONS AND STANDARD DRAWING SD-512. SERVICE LINE MARKERS SHALL REMAIN IN PLACE DURING CONSTRUCTION AND BE MARKED FOR FINAL INSPECTION. ON LOT 19 WHERE ROOF DRAINS ARE UTILIZED, THE CONTRACTOR SHALL COLOR THE ROOF DRAIN MARKERS TO CLEARLY DIFFERENTIATE ROOF DRAIN MARKERS FROM SEWER SERVICE MARKERS.
- THE HORIZONTAL SEPARATION OF THE WATER AND SEWER MAINS SHALL BE A MINIMUM OF TEN (10) FEET. WHERE IT IS NECESSARY FOR SEWER AND WATER TO CROSS EACH OTHER AND THE SEWER LINE IS LESS THAN ONE-HALF (1/2) INCH IN DIAMETER, THE WATER MAIN AND SEWER CROSSING SHALL BE PVC PRESSURE PIPE CONFORMING TO ANSI C-405 OR ASTM D2241. FOR A DISTANCE OF 10' ON BOTH SIDES OF WATER LINE, ONE FULL LENGTH OF BOTH WATER MAIN AND SEWER LINE SHALL BE CENTERED OVER THE CROSSING POINT SO THAT ALL JOINTS WILL BE AS FAR FROM THE CROSSING AS POSSIBLE.
- THE CONTRACTOR SHALL PROVIDE BOISE CITY'S INSPECTOR WITH "CUT SHEET" DRAWINGS PROVIDED FOR CONSTRUCTION OF THE SANITARY SEWER. "CUT SHEETS" SHALL BE PROVIDED TO THE CITY PRIOR TO CONSTRUCTION. ADDITIONALLY, TEMPORARY BENCH MARKS MUST BE PROVIDED TO THE BOISE CITY DEPARTMENT OF PUBLIC WORKS, INSPECTION SECTION, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- PRIOR TO CONSTRUCTION, TEMPORARY BENCH MARKS (TBM'S) SHALL BE SET IN THE FIELD BY A LICENSED SURVEYOR ON SEWER AND SHALL BE SPACED AND PLACED IN A MANNER THAT PROTECTION OF THE BM'S SHALL BE LOCATED WITHIN 100 FEET OF THE TIE-IN TO EXISTING SEWER AND SPACED NO GREATER THAN 500 FEET ALONG THE SEWER ALIGNMENT THEREAFTER. TBM'S SHALL HAVE ELEVATIONS TIED TO THE NAVD 1988 DATUM.
- SEWER PIPE WITH COVER OF GREATER THAN 3 FEET, SHALL BE BELL AND SPIGO, POLYVINYL CHLORIDE (PVC), SDR35, ASTM D-3034 FOR 4-INCH THROUGH 15-INCH AND ASTM F679 FOR 16-INCH THROUGH 27-INCH AS SET FORTH IN THE ISPMC. CONCRETE SEWER PIPE SHALL BE DUCTILE IRON CONFORMING TO ANSI A-21.9 OR ANSI C-151 MINIMUM CLASS 50. A RUBBER RING IS TO BE INSTALLED WHERE THE PIPE IS IN CONTACT WITH THE MANHOLE BASE AND/OR ITS CHANNEL IN ORDER TO ENSURE WATER-TIGHT SEAL.
- THE SEWER CONTRACTOR SHALL SUPPLY ALL LID ASSEMBLIES AND THE REQUIRED NUMBER OF LIDS AND GRATES FOR THE SEWER CONTRACTOR TO CALL FIELD. ENSURE THE ELEVATION OF THE TOP OF THE MANHOLE CONE TO ASSURE THAT RING ELEVATIONS MATCH FINAL STREET GRADES. THE MAXIMUM HEIGHT OF THE GRADE RINGS SHALL BE SUCH THAT THE FINISHED GRADE ELEVATION OF THE MANHOLE FRAME AND COVER SHALL NOT BE MORE THAN TWENTY-ONE (21") INCHES ABOVE THE TOP OF THE MANHOLE CONE.
- THE PAVING CONTRACTOR SHALL SET THE GRADE RINGS AND POUR THE CONCRETE COLLARS PER STANDARD DRAWING NO. SD-509. THE PAVING CONTRACTOR SHALL CONTACT AHD 24 HOURS PRIOR TO POURING CONCRETE COLLARS.
- THE TRENCH BACKFILL ABOVE THE PIPE ZONE WILL BE INSPECTED BY THE AHD OR BY THE DEVELOPER'S ENGINEER IN ACCORDANCE WITH THE TEST EDITION OF THE CONSTRUCTION QUALITY ASSURANCE MANUAL. COMPACTORS THAT ARE USED TO TEST THE BACKFILL ARE TO TEST THE ZONE WITHIN PUBLIC RIGHT-OF-WAY. TESTING SHALL BE CONDUCTED TO MEET ALL AHD REQUIREMENTS AND THE RESULTS SHALL BE SUBMITTED TO BOISE CITY PUBLIC WORKS DEPARTMENT AND AHD PRIOR TO FINAL ACCEPTANCE.
- THE BOISE PUBLIC WORKS DEPARTMENT MAY TEST THE COMPACTION OF THE TRENCH FLOOR. TESTING WILL BE DONE BY AN INDEPENDENT TEST LABORATORY. THE COST OF THE FIRST TEST WILL BE PAID BY THE BOISE PUBLIC WORKS DEPARTMENT. IF THE FIRST TEST FAILS TO MEET REQUIRED COMPACTION, ALL RE-TESTING SHALL BE PAID BY THE SEWER CONTRACTOR. THE CONTRACTOR SHALL CONTACT THE BOISE PUBLIC WORKS DEPARTMENT AND/OR TESTING LABORATORY TO SCHEDULE THE TESTS PRIOR TO ANY PIPE LAYING AND BACKFILL.
- THE CONTRACTOR SHALL LEAVE THE TRENCH OPEN FOR FIELD VERIFICATION FOR THE UPSTREAM END OF ALL SERVICE LINES OPEN FOR FIELD VERIFICATION OF THE INVERT ELEVATION BY THE CITY'S INSPECTOR. THE CONTRACTOR SHALL NOT BACKFILL THE ENDS OF SERVICE LINES UNTIL HE HAS OBTAINED APPROVAL FROM BOISE CITY'S INSPECTOR OR MADE OTHER ARRANGEMENTS FOR THE VERIFICATION OF SERVICE LINE INVERT ELEVATIONS.
- Prior to final acceptance, after all utilities are in and prior to paving, an air test shall be conducted. The contractor shall contact the city of Boise a minimum of 24 hours prior to testing. All manholes shall be tested in accordance with the ISPMC and Boise City's modifications.

## GENERAL NOTES

- TRENCHING SHALL COMPLY WITH DIVISION 300 OF THE ISPMC.
- POLYETHYLENE (PE) PRESSURE PIPE SHALL BE PRESSURE CLASS 200 PSI WITH DRT MEETING ANSI/ASME C401.
- WATER SYSTEM CONSTRUCTION SHALL COMPLY WITH DIVISION 400 OF THE ISPMC.
- SEWER SERVICE PIPE SHALL BE SDR 35 SOLID WALL PVC PIPE MEETING ASTM D3034.
- CONTRACTOR SHALL PROVIDE BRECKON LAND DESIGN WITH THE FOLLOWING SUBMITTALS PRIOR TO CONSTRUCTION:
  - SEWER SERVICE TAP/SADDLE MANUFACTURER
  - SEWER SERVICE PIPE MANUFACTURER
  - SEWER SERVICE PIPE SIGHT PLATE
  - TRENCH PATCH 3/4" CRUSHED AGGREGATE GRADATION
  - VISUAL OR VIDEO INSPECTION REPORTS OF EXISTING SEWER MAIN.
  - COMPACTATION TEST RESULTS FOR ROADWAY PATCH.
- ELEVATIONS SPECIFIED IN POTABLE WATER CROSSING TABLE ARE GUIDANCE FOR THE CONTRACTOR TO MEET SEPARATION DISTANCE REQUIREMENTS. CONTRACTOR CAN SUBMIT A MORE COST-EFFECTIVE MEANS AND METHOD TO BRECKON LAND DESIGN FOR APPROVAL PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL OBTAIN A SEWER TAP PERMIT FROM THE CITY OF BOISE PUBLIC WORKS FOR EACH NEW SEWER SERVICE TAP.
- THRUST BLOCKS SHALL BE CONSTRUCTION TO MEET ISPMC SD-403.

## 1 UTILITIES PLAN

SCALE: 1" = 20'-0"



| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

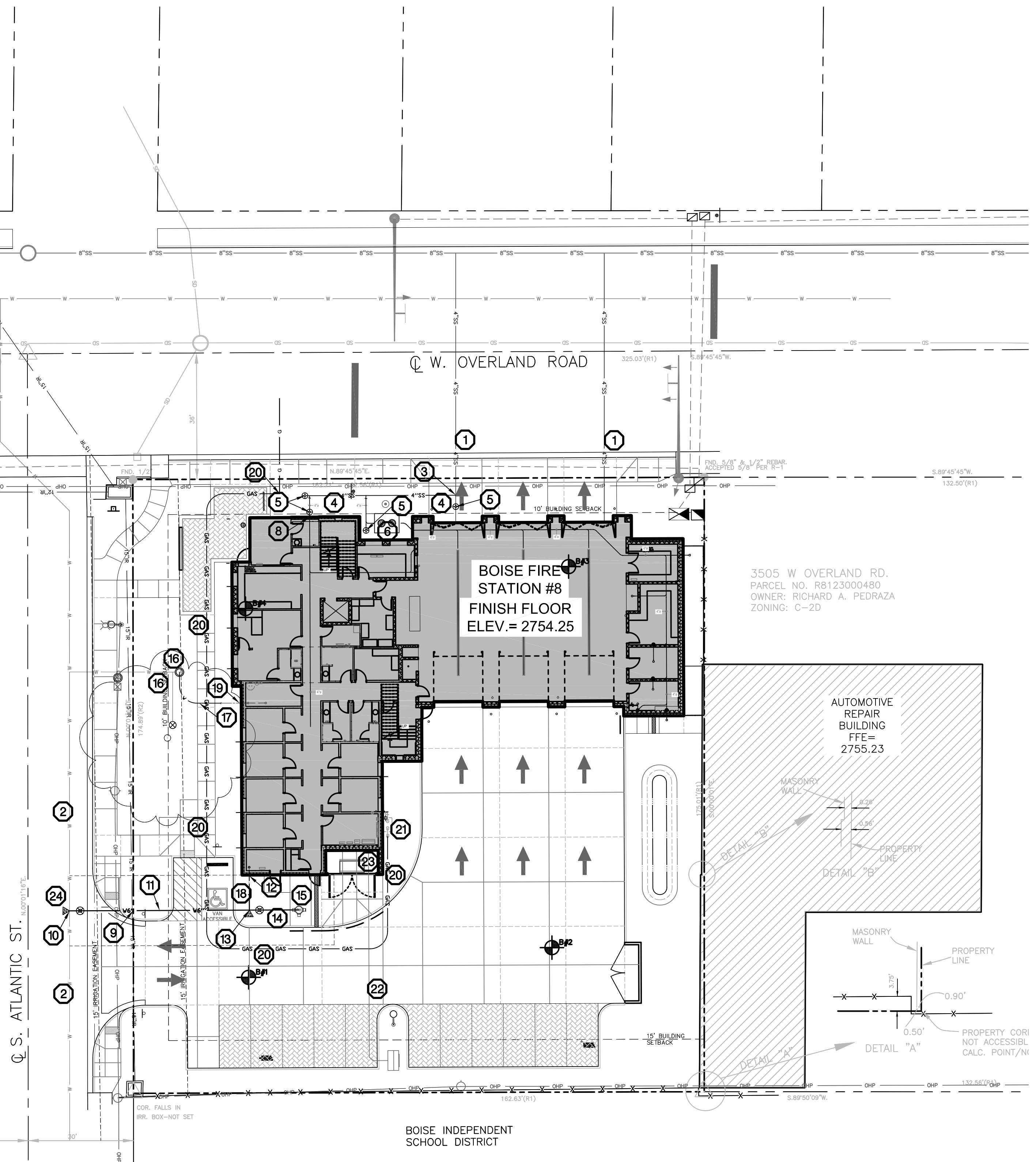
| PROJECT PHASE  | Project Status |
|----------------|----------------|
| PROJECT NUMBER | 15045          |

|                 |           |
|-----------------|-----------|
| PROJECT MANAGER | R. TeBeau |
|-----------------|-----------|

|                   |           |
|-------------------|-----------|
| PROJECT ARCHITECT | R. TeBeau |
|-------------------|-----------|

|        |    |
|--------|----|
| DESIGN | DT |
|--------|----|

|          |            |
|----------|------------|
| DRAWN BY | BS, LP, TC |
|----------|------------|





Know where below.  
Call before you dig.  
Call 811  
in advance before  
you dig to have  
excavators mark  
underground  
member utilities.

**COLE ARCHITECTS**

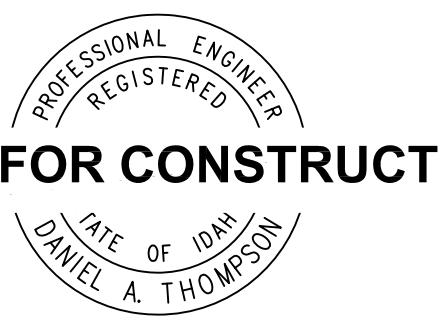
COLE ARCHITECTS | 802 W. BANNOCK SUITE 208  
Boise, ID 83702 | (208) 345-1800



architecture • planning

TCA | 821 Roosevelt Way NE  
Seattle, WA 98115 | (208) 522-3820

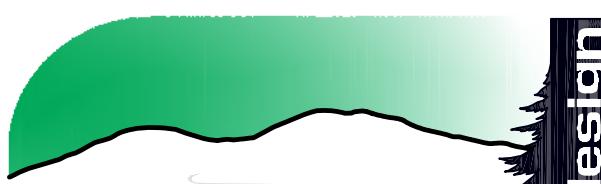
STAMP:



**NOT FOR CONSTRUCTION**

DANIEL A. THOMPSON  
DATE OF 10/10/2016

CONSULTANT:



Landscape Architecture www.breckonlanddesign.com  
• Erosion & Sediment Control Fax 208-376-6528  
• Geographic Info Systems Phone: 208-376-5153  
• Graphic Communication  
• Water Management  
• Irrigation Design  
• Land Planning

PROJECT INFORMATION:



**City of Boise Fire Station 8**  
3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

PROJECT PHASE Project Status

PROJECT NUMBER 15045

PROJECT MANAGER R. TeBeau

PROJECT ARCHITECT R. TeBeau

DESIGN DT

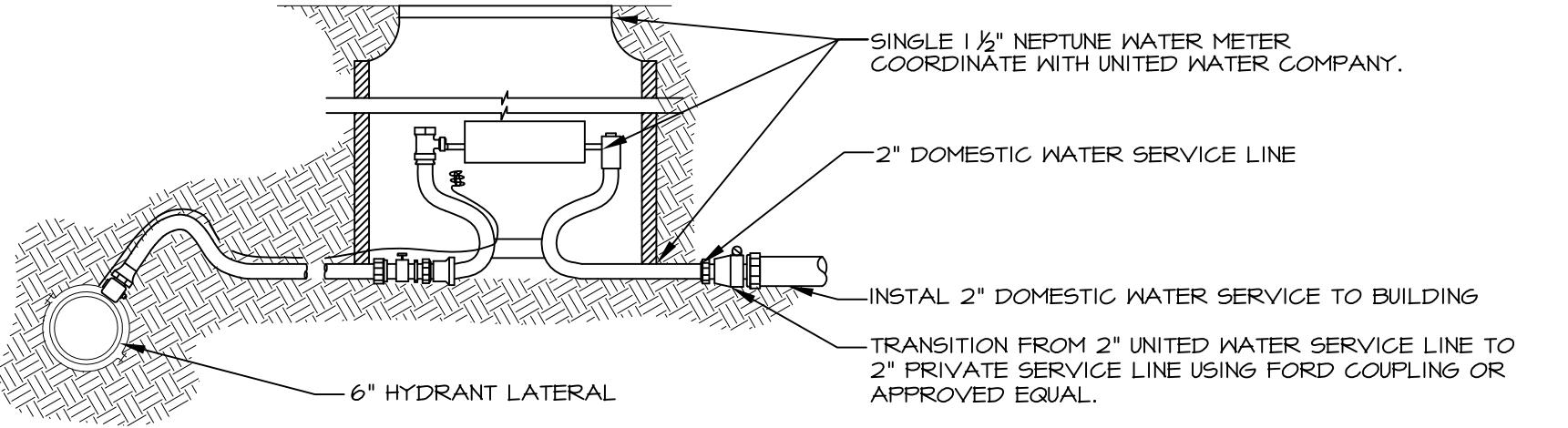
DRAWN BY BS, LP, TC

SHEET NAME:

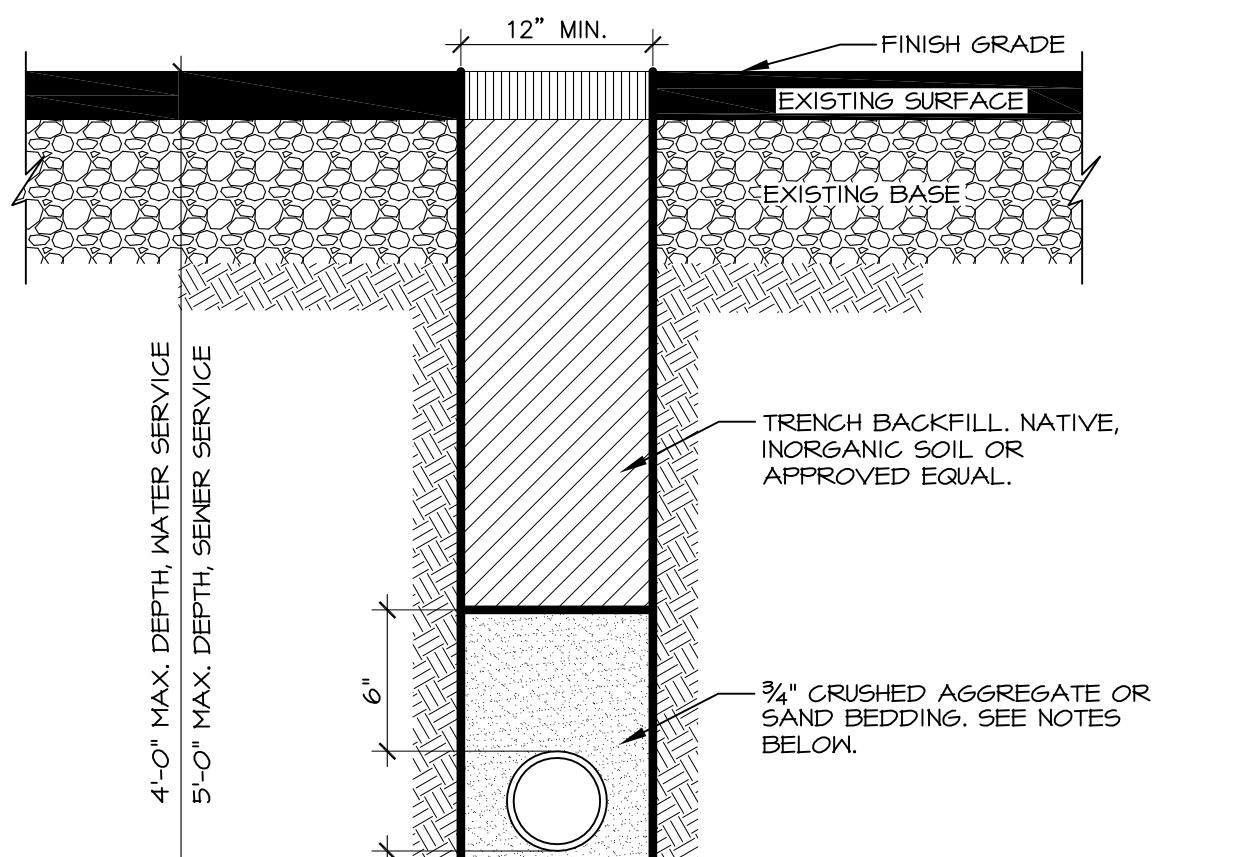
**UTILITIES DETAILS**

**C1.45**

1.29.16



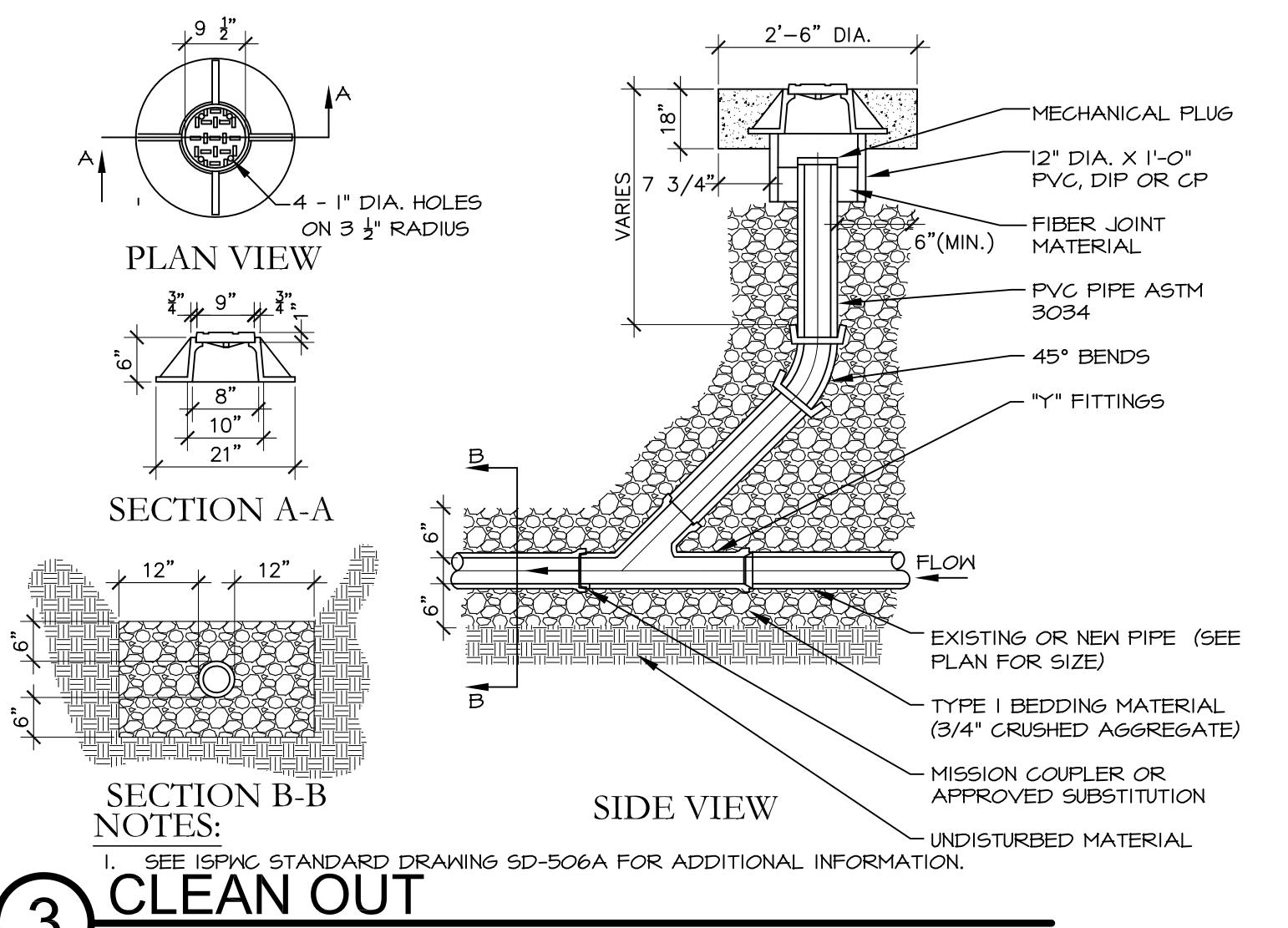
## ① DOMESTIC WATER SERVICE CONNECTION



**NOTES:**

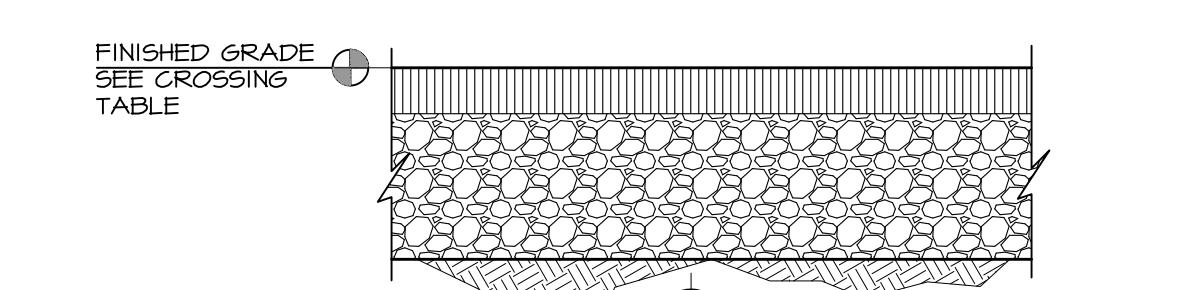
1. BACKFILL SHALL BE COMPAKTED TO A MINIMUM OF 95% OF AASHTO T-99.
2. TRENCH SHALL CONFORM TO O.S.H.A. REQUIREMENTS.
3. FOUNDATION STABILIZATION IS REQUIRED WHERE BOTTOM OF TRENCH IS SOFT OR UNSTABLE.
4. 3/4" CRUSHED AGGREGATE SHALL MEET THE FOLLOWING GRADATION:
  - 4.1. 100% PASSING THE 1" SIEVE SIZE
  - 4.2. 80% - 100% PASSING THE 3/4" SIEVE SIZE
  - 4.3. 20% - 100% PASSING THE 3/8" SIEVE SIZE
  - 4.4. 20% PASSING THE 1/2" SIEVE SIZE
  - 4.5. 0% - 3% PASSING THE NO. 200 SIEVE SIZE
5. SAND BEDDING SHALL HAVE 100% PASSING THE NO. 4 SIEVE SIZE AND LESS THAN 3% PASSING THE NO. 200 SIEVE.

## ② PRIVATE SERVICE LINE TRENCH SECTION



## ③ CLEAN OUT

N.T.S.



## CROSSING TABLE

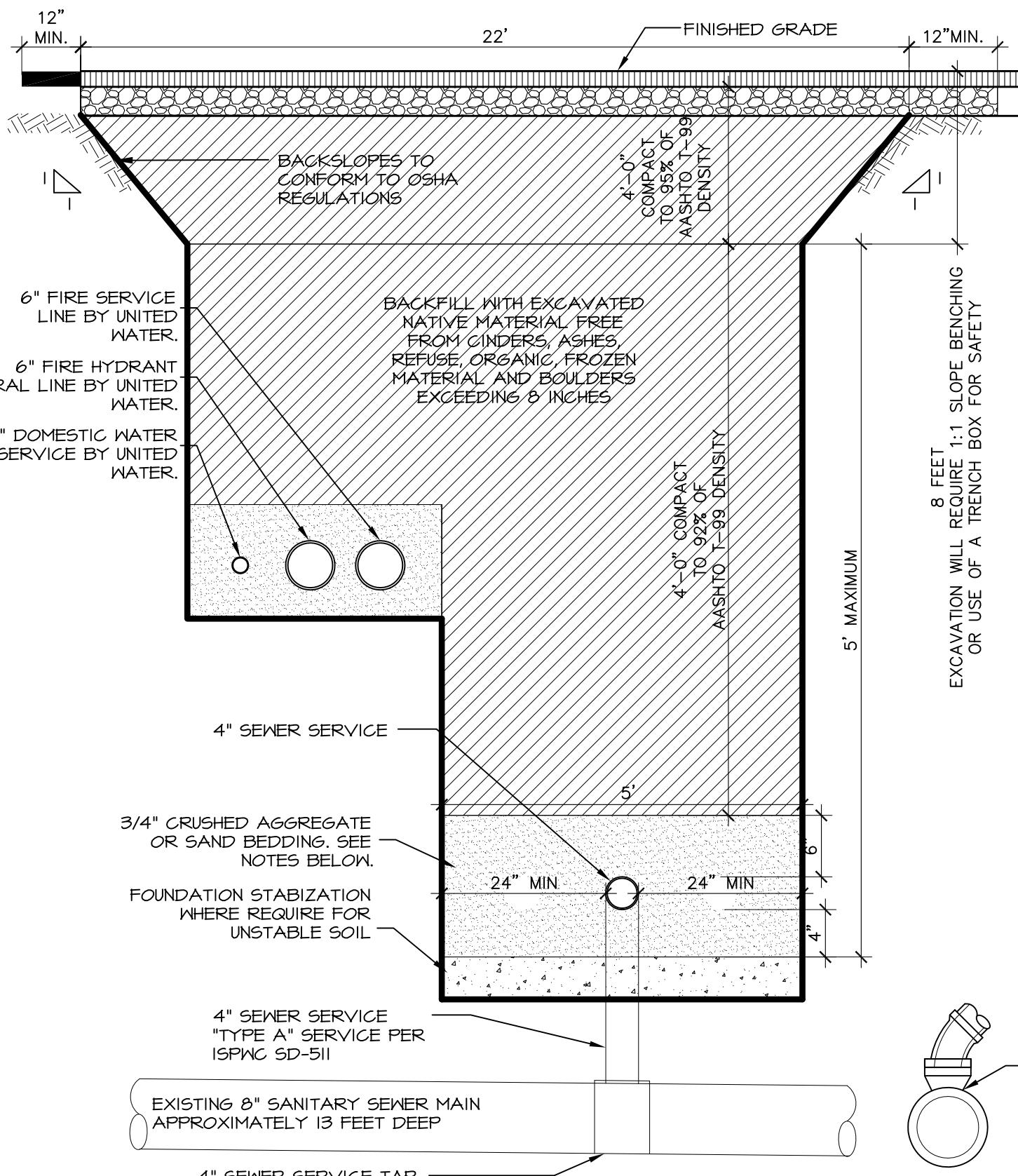
| KEYNOTE NO. | FINISHED GRADE | POTABLE INV. | NON-POT. INV. |
|-------------|----------------|--------------|---------------|
| 13          | 43.85          | 38.85        | 35.53         |
| 14          | 43.81          | 34.31        | 36.01         |
| 15          | 43.50          | 34.00        | 36.50         |

NOTES:

1. IF NON-POTABLE WATER LINE MUST BE INSTALLED WITHIN 18" OF POTABLE WATER LINE, THEN ON FULL UNCUT LENGTH OF NON-POTABLE PIPE MUST BE CENTERED ON THE CROSSING AND THE NON-POTABLE LINE MUST BE SLEEVED WITH A LARGER DIAMETER PIPE FOR 10' BEYOND BOTH SIDES OF THE CROSSING.

## ④ POTABLE LINE SEPARATION

NOT TO SCALE



**NOTES:**

1. TRENCH SHALL CONFORM TO O.S.H.A. REQUIREMENTS.
2. 3/4" CRUSHED AGGREGATE SHALL MEET THE FOLLOWING GRADATION:
  - 2.1. 100% PASSING THE 1" SIEVE SIZE
  - 2.2. 80% - 100% PASSING THE 3/4" SIEVE SIZE
  - 2.3. 20% - 100% PASSING THE 3/8" SIEVE SIZE
  - 2.4. 20% PASSING THE NO. 4 SIEVE SIZE
  - 2.5. 0% - 3% PASSING THE NO. 200 SIEVE SIZE
3. SAND BEDDING SHALL HAVE 100% PASSING THE NO. 4 SIEVE SIZE AND LESS THAN 3% PASSING THE NO. 200 SIEVE.
4. SURFACE RESTORATION SHALL BE TYPE "P" MEETING THE ISPNC DIVISION 300 SECTION 3.8.

## ⑤ PUBLIC TRENCH SECTION

NOT TO SCALE

|               |  |  |
|---------------|--|--|
| SHEET NAME:   |  |  |
| SHEET NUMBER: |  |  |
| C1.45         |  |  |
| 1.29.16       |  |  |

## CONSTRUCTION NOTES

- A. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS AND/OR REQUIREMENTS OF THE CITY PUBLIC WORKS DEPARTMENT, AND/OR THE COUNTY HIGHWAY DISTRICT.
- B. ALL CONTRACTORS WORKING WITHIN THE PROJECT BOUNDARIES ARE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE SAFETY LAWS OF ANY JURISDICTIONAL BODY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BASIC SAFETY DECISIONS AND CONTROL OF TRAFFIC WITHIN AND AROUND THE CONSTRUCTION AREA.
- C. ALL WORK AND MATERIALS SHALL CONFORM TO THE 2010 EDITION OF THE ISPM-C, AND THE APPROPRIATE LOCAL AGENCIES.
- D. THE CONTRACTOR SHALL OBTAIN THE APPROPRIATE PERMITS FROM ALL GOVERNMENT/LOCAL AGENCIES PRIOR TO STARTING CONSTRUCTION.
- E. ALL CONTRACTORS SHALL FOLLOW THE CONTRACTOR'S 2010 EDITION OF THE ISPM-C, AND THE ADA COUNTY HIGHWAY DISTRICT SUPPLEMENTAL SPECIFICATIONS. NO EXCEPTIONS TO SPECIFICATIONS OR THE ISPM-C WILL BE ALLOWED UNLESS SPECIFICALLY AND PREVIOUSLY APPROVED WRITING BY THE ENFORCING AGENCY.
- F. ALL CONTRACTORS WORKING WITHIN THE PUBLIC RIGHT-OF-WAY ARE REQUIRED TO SECURE A RIGHT-OF-WAY CONSTRUCTION PERMIT FROM A.C.H.D. AT LEAST 24 HOURS PRIOR TO ANY CONSTRUCTION.
- G. ANY CHANGE FROM THE PLANS SHALL BE APPROVED BY THE DESIGN PROFESSIONAL.
- H. THE CONTRACTOR SHALL CONTACT DIGLINE 48 HOURS PRIOR TO ANY EXCAVATION. 1-800-342-1585.
- I. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR ANY AND ALL DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- J. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND IMPROVEMENTS. ANY DAMAGE TO EXISTING FACILITIES OR IMPROVEMENTS RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- K. IF THE OWNER/CONTRACTOR ELECTS TO IMPORT FILL MATERIALS, WASTE SOIL SHALL BE HAULED TO AN OFFSITE DISPOSAL SITE FURNISHED BY THE CONTRACTOR.
- L. CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION STAKING, STAKING SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR WITHIN THE STATE OF IDAHO.
- M. CONTRACTOR SHALL PROVIDE SUBMITTALS FOR THE FOLLOWING PRIOR TO CONSTRUCTION.
- A. 6" MINUS UNCRUSHED AGGREGATE BASE COURSE FOR PAVEMENT SECTION.
  - B. 3/4" MINUS CRUSHED AGGREGATE BASE COURSE FOR PAVEMENT SECTION.
  - C. ASPHALT PAVEMENT MIX DESIGN FOR PAVEMENT SECTION.
  - D. CEMENT PAVEMENT MIX DESIGN FOR PAVEMENT SECTION.
  - E. CATCH BASIN INLET DESIGN.
  - F. STORM DRAIN PIPING.
  - G. FILTER FABRIC.
  - H. 2" WASHED DRAIN ROCK AND ASTA C-33 FILTER SAND USED IN SEEPAGE BED.
  - I. SUBGRADE COMPACTION TEST PROCEDURE.
  - J. BASE COMPACTION TEST PROCEDURE.
- N. PROVIDE SUBGRADE AND BASE COURSE COMPACTION TEST RESULTS (DURING CONSTRUCTION) TO BRECKON LAND DESIGN. COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH ASTM D557, 95%.
- O. DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL COORDINATE AND ACCOMMODATE OTHER CONTRACTORS, OPERATIONS OF THE OWNER, AND LOCAL AGENCIES.
- P. ALL MATERIALS FURNISHED ON OR FOR THE PROJECT MUST MEET THE MINIMUM REQUIREMENTS OF THE APPROVING AGENCIES OR AS SET FORTH HEREIN, WHICHEVER IS MORE RESTRICTIVE. CONTRACTORS MUST FURNISH PROOF THAT ALL MATERIALS INSTALLED ON THIS PROJECT MEET THE REQUIREMENTS OF STORM DRAIN NOTE #2 AT THE REQUEST OF THE APPROVING AGENCY AND/OR THE DESIGNER.
- Q. THE CONTRACTOR SHALL DETERMINE THE WORK SUBJECT TO APPROVAL BY ANY POLITICAL SUBDIVISION OR AGENCY MUST BE APPROVED PRIOR TO:
- A. BACKFILLING TRENCHES FOR PIPE;
  - B. PLACING OF AGGREGATE BASE;
  - C. PLACING OF CONCRETE;
  - D. PLACING OF ASPHALT PAVING.
- WORK DONE WITHOUT SUCH APPROVAL DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PERFORMING THE WORK IN AN ACCEPTABLE MANNER.
- R. ONLY PLAN SETS STAMPED "APPROVED FOR CONSTRUCTION" AND SIGNED BY THE CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE SHALL BE USED BY THE PROJECT CONTRACTOR(S). USE OF ANY PLANS ON THE JOB WITHOUT THE "APPROVED FOR CONSTRUCTION" STAMP SHALL BE GROUNDS FOR THE ISSUANCE OF A STOP WORK ORDER.
- S. THE CONTRACTOR SHALL MAINTAIN THE SITE AT ALL TIMES, A COPY OF THE APPROVED CONSTRUCTION PLANS ON WHICH IS RECORDED THE ACTUAL LOCATIONS OF THE PROPOSED IMPROVEMENTS AND ANY OTHER UTILITIES ENCOUNTERED. THE CONTRACTOR SHALL PROVIDE THESE LOCATIONS TO THE DESIGNER FOR USE IN THE PRODUCTION OF RECORD DRAWINGS PRIOR TO FINAL APPROVAL OF THE IMPROVEMENTS.
- T. THE DESIGN PROFESSIONAL SHALL SUBMIT RECORD DRAWINGS TO THE PUBLIC WORKS DEPARTMENT AS PRESCRIBED BEFORE FINAL APPROVAL IS GIVEN TO THE PROJECT.

## TOPSOIL NOTES

1. TOPSOIL REQUIREMENTS: ASTM D 5268, PH RANGE OF 5.5 TO 7, FOUR PERCENT ORGANIC MATERIAL MINIMUM, FREE OF STONES 1/2 INCH OR LARGER IN ANY DIMENSION, AND OTHER EXTRANEous MATERIALS HARMFUL TO PLANT GROWTH.
2. TOPSOIL SOURCE: STRIP EXISTING TOPSOIL FROM ALL AREAS OF THE SITE TO BE DISTURBED. TOPSOIL SHALL BE FERTILE, FRIMBLE, NATURAL LOAM, SURFACE SOIL REASONABLY FREE OF SEDIMENT, CLAY LUMPS, BRUSH, WEEDS AND OTHER LITTER, AND FREE OF ROOTS, STUMPS, ORGANIC MATTER, LARGER THAN ONE INCH IN ANY DIMENSION, AND OTHER EXTRANEous OR TOXIC MATTER HARMFUL TO PLANT GROWTH. TOPSOIL SHALL BE SCREENED TO ACHIEVE THIS REQUIREMENT.
3. REPRESENTATIVE SAMPLES SHALL BE TESTED FOR ACIDITY, FERTILITY AND GENERAL TEXTURE BY A RECOGNIZED COMMERCIAL OR GOVERNMENT AGENCY AND COPIES OF THE TESTING AGENCY'S FINDINGS AND RECOMMENDATIONS SHALL BE FURNISHED TO THE ARCHITECT'S REPRESENTATIVE BY THE CONTRACTOR. ALL TOPSOIL SHALL BE TESTED TO ACHIEVE DESIRED PH AND ORGANIC REQUIREMENTS. RE-TEST TOPSOIL PRIOR TO FINAL COMPLETION TO ENSURE REQUIREMENTS HAVE BEEN MET. NO TOPSOIL SHALL BE PLACED WHILE IN A FROZEN OR MUDDY CONDITION.
4. PLACE TOPSOIL IN AREAS WHERE REQUIRED TO OBTAIN THICKNESS AS SCHEDULED. PLACE TOPSOIL DURING DRY WEATHER. PROVIDE ADDITIONAL IMPORTED TOPSOIL REQUIRED TO BRING SURFACE PROPOSED FINISH GRADE AS DESIRED.
5. COMPACTED TOPSOIL THICKNESS AT THE FOLLOWING AREAS:
- A. LAWN AREAS: 4 INCHES MINIMUM OR AS NECESSARY TO ACHIEVE EVEN GRADES WITHIN SURROUNDING LAWN AREAS.
  - B. PLANTER BEDS: 18 INCHES MINIMUM.
  - C. FINE GRADE TOPSOIL TO SMOOTH, EVEN SURFACE WITH LOOSE, UNIFORMLY SIZED, DUST-FREE, REMOVED ROOTS AND DEPRESSIONS, AS REQUIRED TO MEET FINISH GRADES. HIGH GRADE OF TOPSOIL SHALL BE 2' BELOW FINISH GRADE OF PAVEMENT AREAS FOR SOD AND 1" FOR SEED.
6. TOPSOIL STOCKPILE LOCATIONS TO BE COVERED COORDINATE WITH EROSION AND SEDIMENT CONTROL PLAN.
7. ALL GRAVEL, SUBBASE, AND OTHER IMPORTED FILL MATERIALS OTHER THAN TOPSOIL SHALL ONLY BE STOCKPILED IN PROPOSED PAVEMENT AREAS. NO GRAVEL, ROCK, MATERIALS WHICH BELOCKED OR TEMPORARILY PLACED IN PROPOSED LANDSCAPE AREAS TO PREVENT LANDSCAPE AREAS FROM BEING CONTAMINATED WITH ROCK MATERIALS. CONTRACTOR SHALL SUBMIT A DETAILED STOCKPILE PLAN TO LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO ANY EARTHWORK OPERATIONS.

## GRADING NOTES

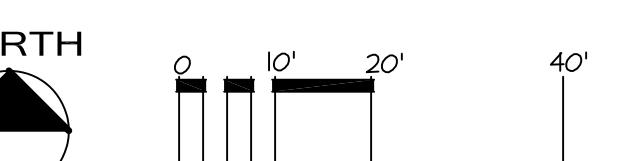
1. BASIS OF BEARING (NAVD 88). THE REFERENCE BENCHMARK FOR THIS SURVEY IS THE CORS NETWORK. POSITIONS WERE COMPUTED USING THE FOLLOWING CORS STATIONS:
- CONFIRMATION OF ON-SITE BENCHMARKS: ANY BENCHMARK OR CONTROL POINT MUST BE CHECKED WITH A SECOND ON-SITE BENCHMARK/CONTROL POINT PRIOR TO USE.
2. BENCHMARK / VERIFY WITH EXISTING CONDITIONS, VERTICAL DATUM.
3. CONTOUR INTERVAL EQUALS ONE FOOT (1'-0").
4. ADD 2100' TO ALL SPOT ELEVATIONS.
5. CONTRACTOR TO VERIFY ALL EXISTING ELEVATIONS NOTED ON THIS PLAN AND NOTIFY THE DESIGN PROFESSIONAL WHEN ELEVATIONS DO NOT MATCH PLANS.
6. ALL DITCHES LOCATED BEHIND STRUCTURES OR UNDER PAVEMENT AREAS, SHALL BE RE-EXCAVATED, BACKFILLED AND COMPACTED WITH APPROVED STRUCTURAL FILL, AS SPECIFIED.
7. COORDINATE ALL EARTHWORK OPERATIONS WITH MECHANICAL, AND ELECTRICAL ENGINEERING SHEETS.
8. GRADE SHOWN IS FINISH GRADE.
9. ALL DRAINS SHOULD BE SMOOTH AND UNIFORM.
10. PROVIDE POSITIVE DRAINAGE TO AWAY FROM BUILDING.
11. PROVIDE POSITIVE DRAINAGE TO DRAINAGE STRUCTURES, CURB CUTS, DRAINAGE SWALES, AND DRAIN INLETS.
12. ALL SLOPES SHALL BE GRADED AS NOTED PER PLAN.
13. ALL SLOPES SHALL BE GRADED TO A MAXIMUM OF 5:1 UNLESS OTHERWISE NOTED.
14. CONTOURS ARE TO CONVEY GENERAL GRADING CONCEPT.
15. ALL CONCRETE SIDEWALKS SHALL HAVE A MINIMUM OF ONE PERCENT (1%) CROSS SLOPE UNLESS OTHERWISE NOTED.
16. THE BOTTOM BASIN LEVEL OF ALL DRAINAGE SWALES SHALL BE FLAT AND SMOOTH UNLESS NOTED OTHERWISE.
17. ALL DRAINS READING APPROVED BY THE DESIGN PROFESSIONAL AND THE APPROVING AGENCIES.
18. CONTRACTOR SHALL REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL REQUIREMENTS.
19. REFER TO SUMMARY PLAN FOR SITE WORK PHASING, ALTERNATES, AND COORDINATION WITH WORK BY OTHERS.
20. IN THE EVENT OF A DISCREPANCY, IMMEDIATELY NOTIFY THE DESIGN PROFESSIONAL.

## STORM DRAIN NOTES

1. PROVIDE METALLIC LINED PLASTIC UNDERGROUND WARNING TAPE AT ALL PIPE LOCATIONS.
2. ALL POTABLE/NON-POTABLE WATER PIPING RELATIONSHIPS MUST COMPLY WITH CITY OF BOISE, ISPM, AND IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIREMENTS. THE HORIZONTAL SEPARATION OF NON-POTABLE SERVICES AND POTABLE WATER LINES, OR OF POTABLE WATER MAINS SHALL BE A MINIMUM OF SIX (6) FEET. WHERE IT IS NECESSARY, FOR A POTABLE WATER MAIN AND NON POTABLE WATER MAIN TO CROSS WITH LESS THAN EIGHTEEN (18) INCHES OF VERTICAL SEPARATION, THE CROSSING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 542.07 OF THE IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 58.01.08) AND SECTION 450.02 OF THE PLASTERMASTER RULES (IDAPA 58.01.16). ALL CROSSINGS MUST BE APPROVED BY A REPRESENTATIVE OF BRECKON LAND DESIGN.
3. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE FACILITIES DURING THE CONSTRUCTION AREA UNTIL THE DRAINAGE IMPROVEMENTS ARE IN PLACE AND FUNCTIONING.
4. ALL DRAINS AND PIPE JOINTS SHALL MEET AASHTO M-244, TYPE 6 PIPE REQUIREMENTS.
5. EXCAVATE SEEPAGE BEDS A MIN. OF 12" INTO FREE DRAINING MATERIAL.
6. DRAIN ROCK SHALL BE 15"-2" CLEAN ANGULAR WASHED DRAIN ROCK.
7. THE SIZE OF THE DRAINAGE AREA SHALL BE ENLARGED IF GROUND WATER IS ENCOUNTERED ABOVE THE BOTTOM OF THE DRAINAGE BED. IF THIS SITUATION OCCURS, CONTACT THE DESIGN PROFESSIONAL IMMEDIATELY FOR NEW SEEPAGE BED SIZING.
8. ALL DRAINAGE FACILITIES MUST BE INSPECTED BY BRECKON LAND DESIGN 24 HOURS NOTICE REQUIRED.
9. ALL DRAINAGE FACILITIES MUST BE INSPECTED BY THE CITY 48 HOURS NOTICE IS REQUIRED, PRIOR TO PLACEMENT OF FILTER FABRIC.
10. PROVIDE POSITIVE DRAINAGE (MINIMUM ONE PERCENT) FROM ALL RAINWATER LEADERS TO DRAINAGE STRUCTURES AND ENSURE EIGHTEEN INCHES (18") OF COVER OVER ALL RAINWATER LEADERS TO ENSURE ADEQUATE DRAINAGE CAPACITY.
11. CONTRACTOR SHALL COORDINATE CONNECTION OF ROOF DRAINS WITH MECHANICAL CONTRACTOR. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION OF ROOF DRAINS. ROOF DRAINS EXTEND FIVE FEET (5'-0") OUTSIDE THE BUILDING. CONNECT CLEANOUT STORM DRAIN AT THIS POINT.
12. LOCATE SUBSURFACE STORM WATER DISPOSAL FACILITIES AT LEAST 25 FEET FROM WATER MAINS. THIS REQUIREMENT DOES NOT APPLY TO CATCH BASINS OR SAND AND GREASE VENTS.
13. SEEPAGE BED MUST BE FIVE FEET (5'-0") BACK FROM PROPERTY LINE AND NO GRADING SHALL BE PERMITTED WITHIN TWO FEET (2'-0") OF THE PROPERTY LINE.
14. ALL DRAINAGE FACILITIES MUST BE INSPECTED BY THE CITY OF BOISE PUBLIC WORKS. 24 HOURS NOTICE REQUIRED. CALL 208-384-3435.

## 1 GRADING AND DRAINAGE PLAN

SCALE: 1" = 20'-0"



## GRADING LEGEND

|             |   |
|-------------|---|
| 1040'       | PROPOSED CONTOUR  |
| 1050'       | EXISTING CONTOUR  |
| X 1050.24   | EXISTING SPOT ELEVATION   |
|             | TOPSOIL STOCK PILE AREA   |
|             | GRADE BREAK   |
| TC 1132.76± | GRADE BREAK LINE  |
| BC 1132.26  | SPOT ELEVATION  |
| 2.55%       | FLOW DIRECTION AND GRADIENT   |
|             | BOTTOM OF SWALE   |
|             | EXTENTS OF SWALE BASIN  |
|             | EXTENTS OF SEEPAGE BED  |
|             | INTEGRAL CURB/WALK LOCATION   |
|             | VERTICAL CURB LOCATION  |
|             | CURB AND GUTTER LOCATION  |
|             | SCORE JOINT (TYPICAL)   |
|             | EXPANSION JOINT (TYPICAL)   |
|             | ACCESSIBLE RAMP LOCATION WITH DETECTABLE WARNING SURFACE  |
|             | NEW CONCRETE FLATWORK   |
|             | CONCRETE VALLEY GUTTER AS DETAILED  |
| B.O.S.      | BOTTOM OF SWALE ELEVATION   |
| TC/LG       | TOP OF CURB/GUTTER  |
| TR/BR       | TOP OF RAMP/BOTTOM OF RAMP  |
| TW/BW       | TOP OF WALL/BOTTOM OF WALL  |
| FFE         | FINISHED FLOOR ELEVATION  |
| RE          | RIM ELEVATION   |
| IE          | INVERT ELEVATION  |
| ME          | MATCH EXISTING ELEVATION  |
| FG          | FINISH GRADE ELEVATION  |
| TA          | TOP OF ASPHALT ELEVATION  |
| TOC         | TOP OF CONCRETE ELEVATION   |
| HP          | HIGH POINT OF FINISH GRADE  |
| LP          | LOW POINT OF FINISH GRADE   |
| TC/BC       | TOP OF CURB/BOTTOM OF CURB  |
| CO          | CLEANOUT LOCATION   |
| RWL         | NEW RAINWATER LEADER  |
| SB          | SPASH BLOCK AS SPECIFIED  |
| DO          | CURB CUT/DRAINAGE OUTLET  |
|             | PIPE OUTFALL AS DETAILED  |
|             | UNDER WALK DRAIN AS DETAILED  |
|             | TRENCH DRAIN, SEE DETAIL.   |
| BM          | BENCHMARK   |
| TP          | APPROXIMATE SOIL TESTING LOCATION (VERIFY EXACT LOCATION) - SEE GEOTECHNICAL ENGINEERING REPORT |

## CALLOUT LEGEND

- PROVIDE SMOOTH TRANSITIONS BETWEEN NEW AND EXISTING GRADES.
- SLOPE ALL SURFACES ADJACENT TO DOORWAYS A MAXIMUM OF 2.0% AND NO LESS THAN 1% FOR A MINIMUM DISTANCE OF 5 FEET FROM BUILDING TO COMPLY WITH ADA REGULATIONS.
- PROVIDE 6" DEEP DITCH TO DIRECT WATER AS SHOWN. ALL STORM WATER SHALL REMAIN ON SITE.
- PERMEABLE PAVERS, SEE DETAIL.
- UNDER WALK DRAIN, SEE DETAIL.
- ADJUST UTILITY RIM ELEVATION AS REQUIRED TO BE FLUSH WITH NEW FINISH GRADE ELEVATIONS.



COLE ARCHITECTS  
COLE ARCHITECTS | 802 W. BANNOCK SUITE 208  
Boise, ID 83702 | (208) 345-1800

T C A  
architecture • planning  
TCA | 811 Roosevelt Way NE  
Seattle, WA 98115 | (208) 522-3820

NOT FOR CONSTRUCTION  
STATE OF IDAHO  
LANDSCAPE ARCHITECTURE  
CONSULTANT:

BRECKON land design  
• Landscape Architecture www.breckonlanddesign.com  
• Erosion & Sediment Control Fax 208-376-6528  
• Geographic Info Systems Phone 208-376-5153  
• Graphic Communication 181 East 50th Street  
• Water Management Garden City, Idaho 83714  
• Irrigation Design  
• Land Planning

PROJECT INFORMATION:  
BOISE CITY OF TREES  
BOISE FIRE DEDICATION  
City of Boise Fire Station 8  
3575 W. Overland Rd. Boise, ID 83705

REVISIONS:  
MARK DATE DESCRIPTION  
PROJECT NUMBER 15045  
PROJECT MANAGER R. TeBeau  
PROJECT ARCHITECT R. TeBeau  
DESIGN JB  
DRAWN BY BS, LP, TC  
SHEET NAME:  
SHEET NUMBER:

## GRADING AND DRAINAGE PLAN

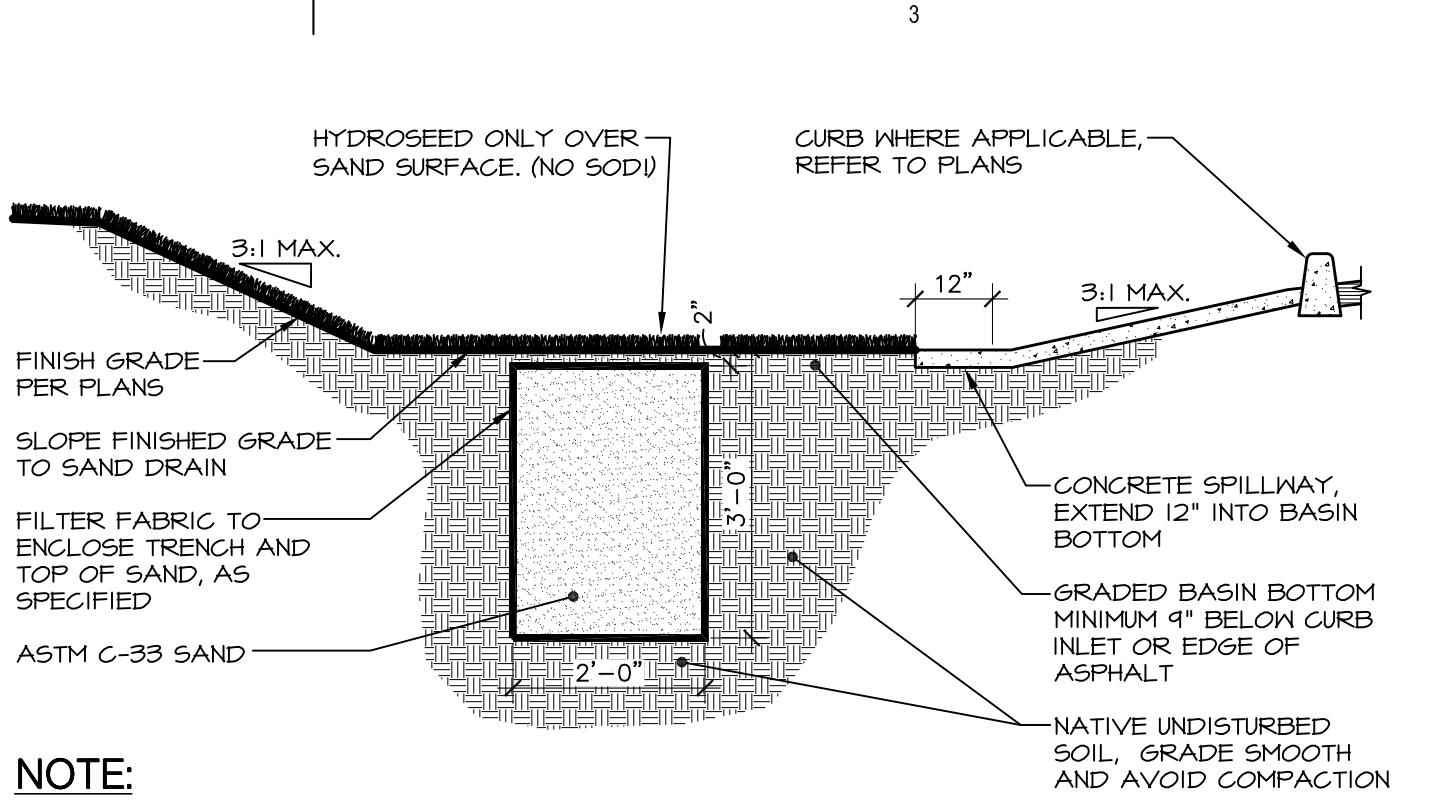
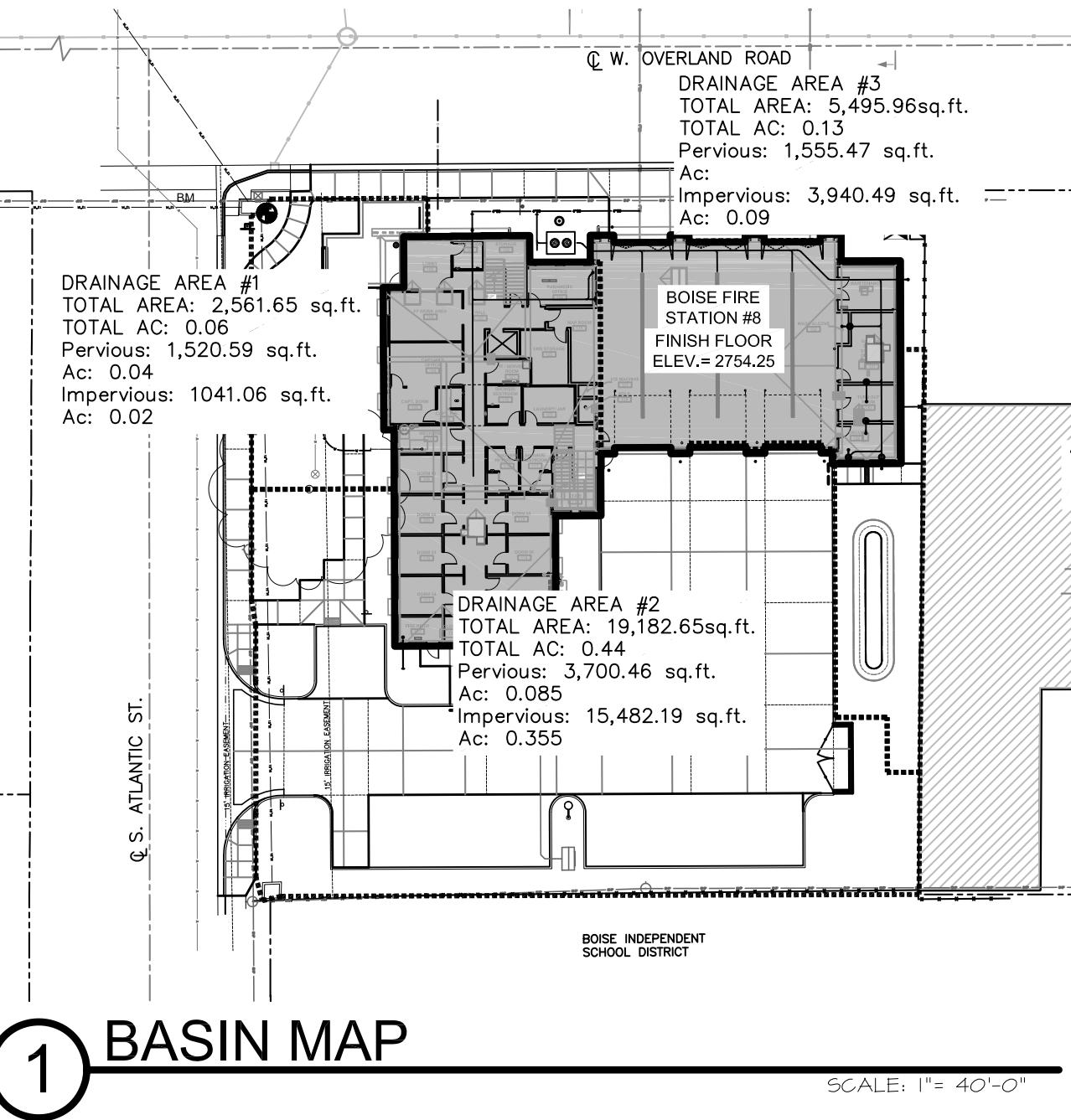
C1.50

## DISCLAIMER:

THESE SITE DISTURBANCE PLANS HAVE BEEN PREPARED FOR THE CONTRACTOR/ OWNER IN FULL COMPLIANCE WITH THE GOVERNING AUTHORITY'S SITE DISTURBANCE ORDINANCE. THE REQUIRED REGULATORY ITEMS HAVE BEEN INCORPORATED INTO THIS PARTICULAR PROJECT IN GOOD FAITH. THE CONTRACTOR/ OWNER SHALL NOT BE HELD RESPONSIBLE FOR INACCURATE BASE INFORMATION PROVIDED BY OTHERS, UNACCEPTABLE CONSTRUCTION METHODS, OR SITE MODIFICATIONS MADE WITHOUT CONSULTING BRECKON LAND DESIGN, INC. ALL LIABILITY WILL BE ASSUMED BY THE OWNER/ CONTRACTOR IF A FINAL INSPECTION OF THE PROJECT HAS NOT BEEN PERFORMED BY BRECKON LAND DESIGN, INC. AND IDENTIFIED DEFICIENCIES CORRECTED BY THE CONTRACTOR/ OWNER.

## CAUTION NOTICE

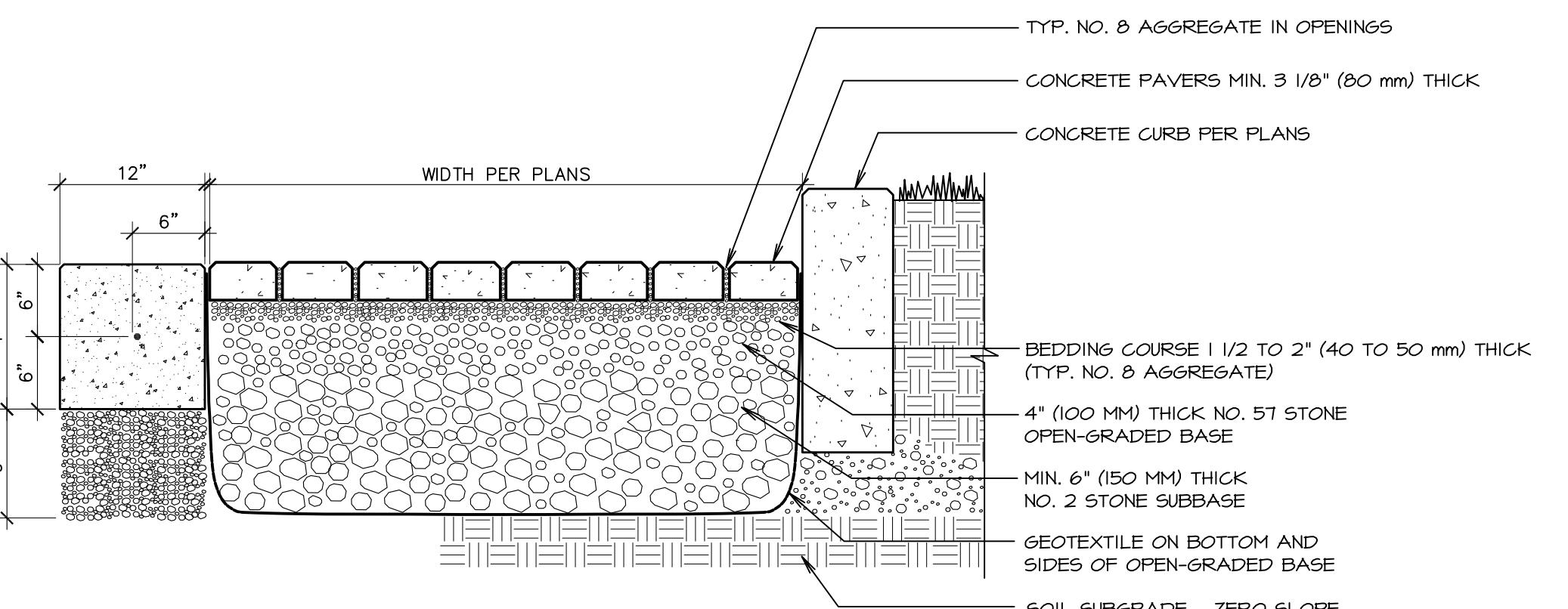
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCATION/ LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO DETERMINE THE EXACT LOCATION OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

**NOTE:**

1. THE USE OF SILTY LOAM OR CLAY IS PROHIBITED FROM USE AS BASIN BOTTOM MATERIAL.
2. DO NOT COMPACT BASIN AREA WITH HEAVY EQUIPMENT. IF COMPACTION OCCURS, RIP TO 12" AND REGRADE, SEE DETAIL.
3. NATIVE UNDISTURBED SOIL IS USED AS A SEDIMENT BASIN. REMOVE SILT, REGRADE TO SPECIFIED TOLERANCES.
4. REFER TO SPECIFICATIONS FOR SWALE PERCOLATION TESTING REQUIREMENTS.
5. CONTRACTOR SHALL EXCAVATE A TEST PIT AT SWALE LOCATION TO CONFIRM THE DEPTH TO FREE DRAINING SOILS AND GROUNDWATER IN THE PRESENCE OF THE LANDSCAPE ARCHITECT.
6. GEOTEXTILE FILTER FABRIC OF PP OR POLYESTER FIBERS OR COMBINATION OF BOTH, WITH FLOW RATE RANGE FROM 10 TO 330 GPM/SQ. FT. WHEN TESTED ACCORDING TO ASTM D4491.

**1 DRAINAGE SWALE**

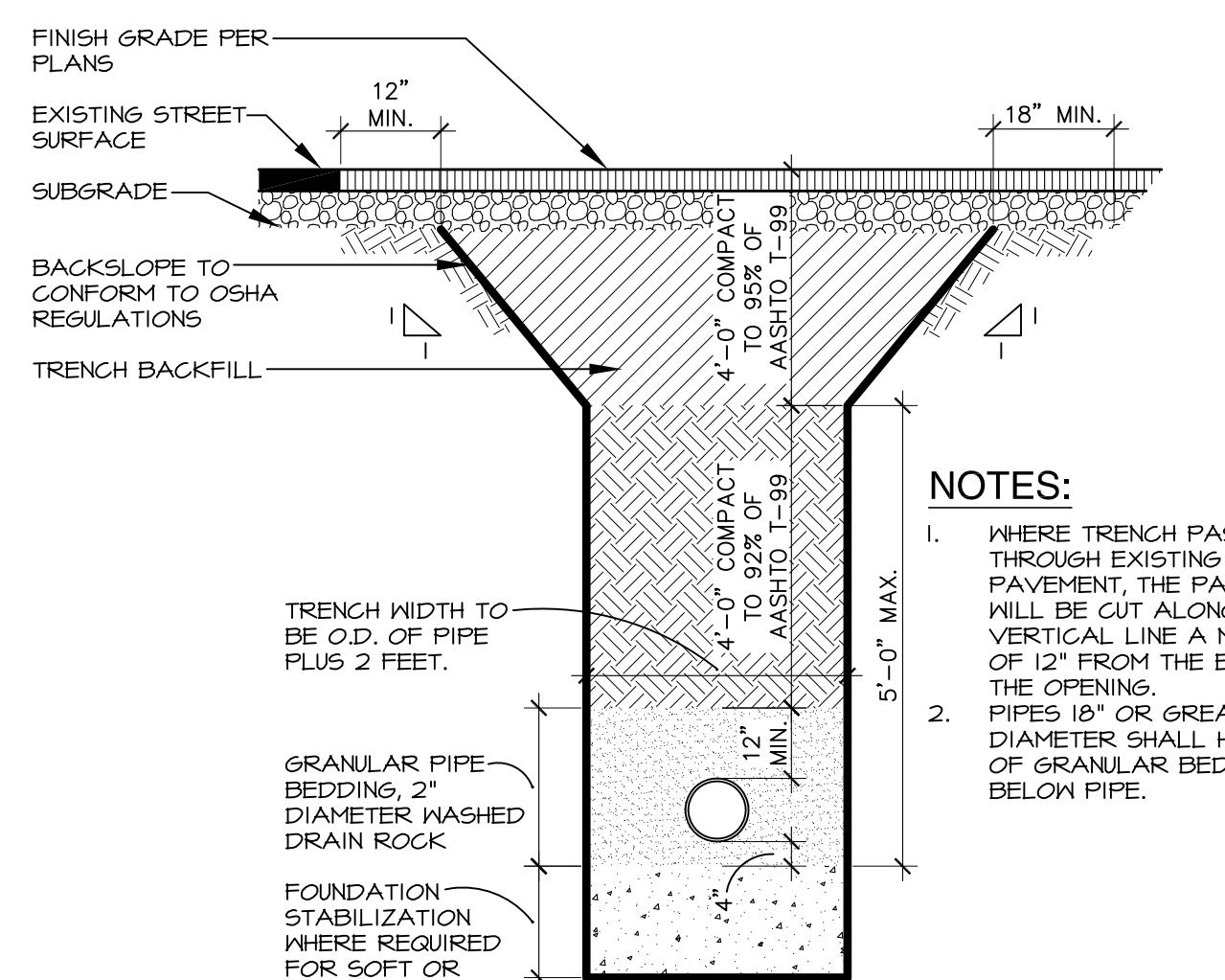
Scale: 1/2" = 1'-0"

**NOTES:**

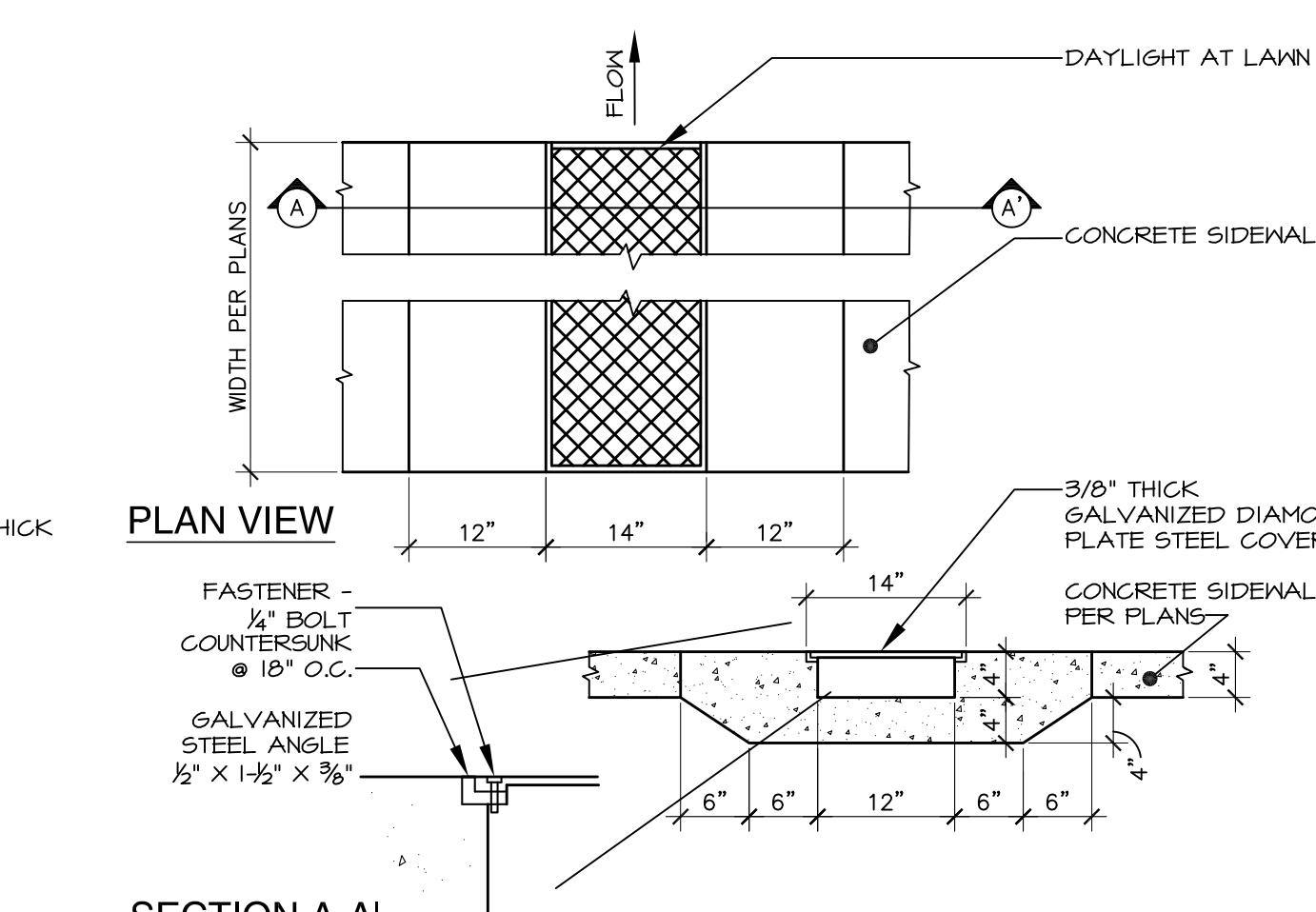
1. 2 3/8" (60 mm) THICK PAVERS MAY BE USED IN PEDESTRIAN APPLICATIONS.
2. NO. 2 STONE SUBBASE THICKNESS VARIES WITH DESIGN. CONSULT ICPI PERMEABLE INTERLOCKING CONCRETE PAVEMENT MANUAL.

**2 PERMEABLE PAVEMENT WITH FULL EXFILTRATION**

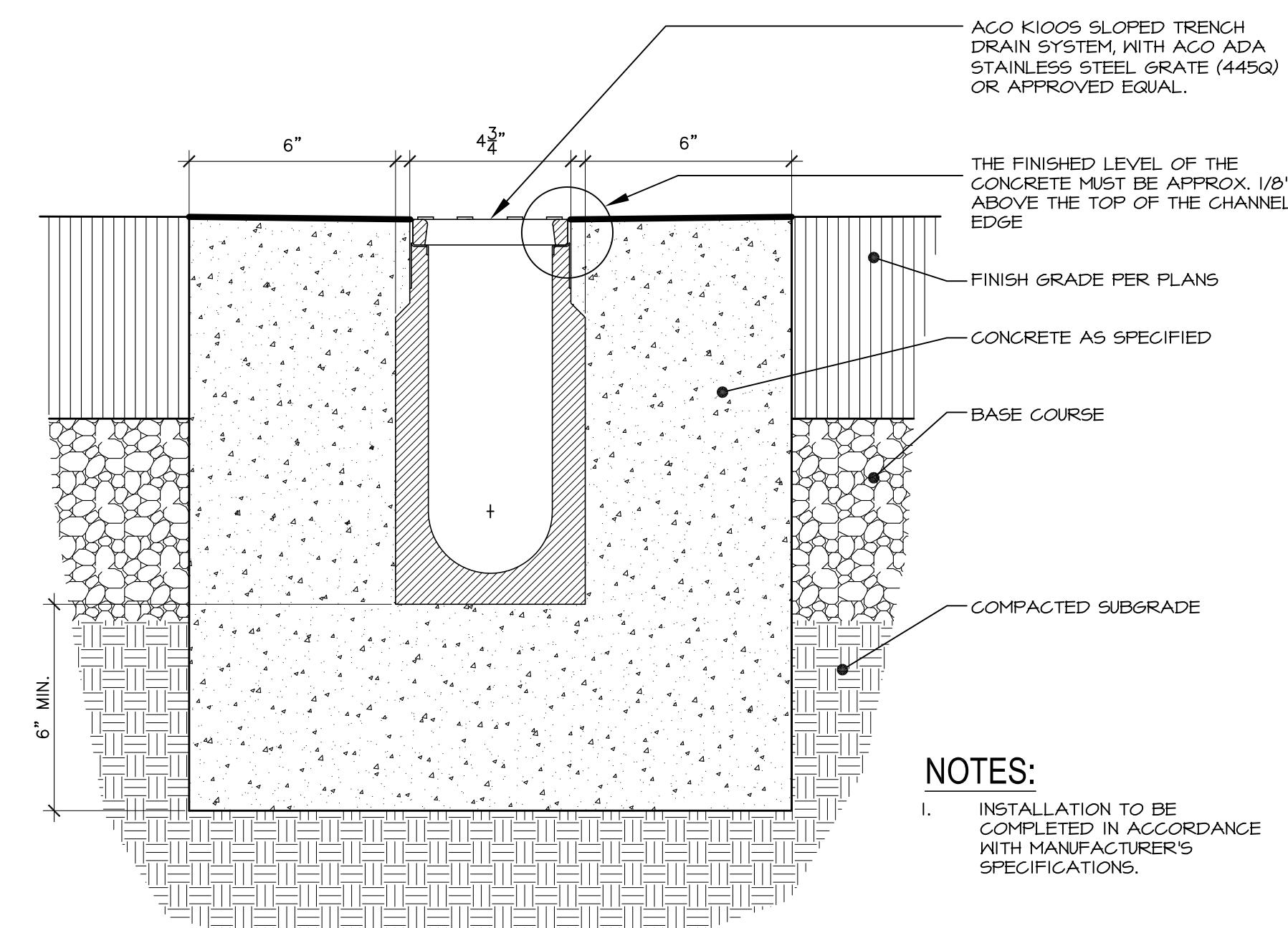
NOT TO SCALE

**3 TRENCH SECTION**

NOT TO SCALE

**SECTION A-A'****4 UNDERWALK DRAIN**

Scale: 3/4" = 1'-0"

**5 TRENCH DRAIN EMBEDMENT**

Scale: 3" = 1'-0"

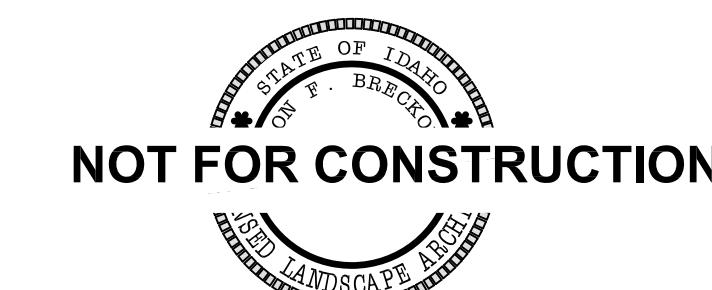
**GRADING AND DRAINAGE DETAILS****C1.55**

**COLE ARCHITECTS**  
COLE ARCHITECTS | 802 W. BANNOCK SUITE 208  
Boise, ID 83702 | (208) 345-1800

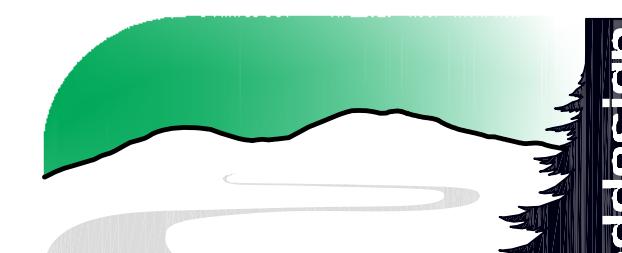


TCA | 811 Roosevelt Way NE  
Seattle, WA 98115 | (208) 522-3820

STAMP:

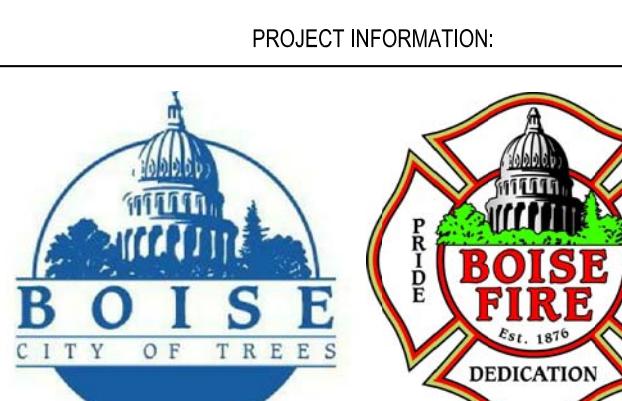


CONSULTANT:



- Landscape Architecture
- Erosion & Sediment Control
- Geographic Info Systems
- Graphic Communication
- Water Management
- Irrigation Design
- Land Planning

www.breckonlanddesign.com  
Phone: 208-376-5153  
181 East 50th Street  
Garden City, Idaho 83714

**City of Boise Fire Station 8**

3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

**PROJECT PHASE****Project Status**

|                   |            |
|-------------------|------------|
| PROJECT NUMBER    | 15045      |
| PROJECT MANAGER   | R. TeBeau  |
| PROJECT ARCHITECT | R. TeBeau  |
| DESIGN            | JB         |
| DRAWN BY          | BS, LP, TC |

SHEET NAME:

SHEET NUMBER:

## DISCLAIMER:

THESE SITE DISTURBANCE PLANS HAVE BEEN PREPARED FOR THE CONTRACTOR/ OWNER IN FULL COMPLIANCE WITH THE GOVERNING AUTHORITY'S SITE DISTURBANCE ORDINANCE. THE REQUIRED REGULATORY ITEMS HAVE BEEN INCORPORATED INTO THIS PARTICULAR PROJECT IN GOOD FAITH. BRECKON LAND DESIGN, INC. CAN NOT BE HELD RESPONSIBLE FOR INACCURATE BASE INFORMATION PROVIDED BY OTHERS, UNACCEPTABLE CONSTRUCTION METHODS, OR SITE MODIFICATIONS MADE WITHOUT CONSULTATION. BRECKON LAND DESIGN, INC. ALL LIABILITY WILL BE ASSUMED BY THE OWNER/CONTRACTOR IF A FINAL INSPECTION OF THE PROJECT HAS NOT BEEN PERFORMED BY BRECKON LAND DESIGN, INC. AND IDENTIFIED DEFICIENCIES CORRECTED BY THE CONTRACTOR/OWNER.

## TURF AREA PREPARATION NOTES:

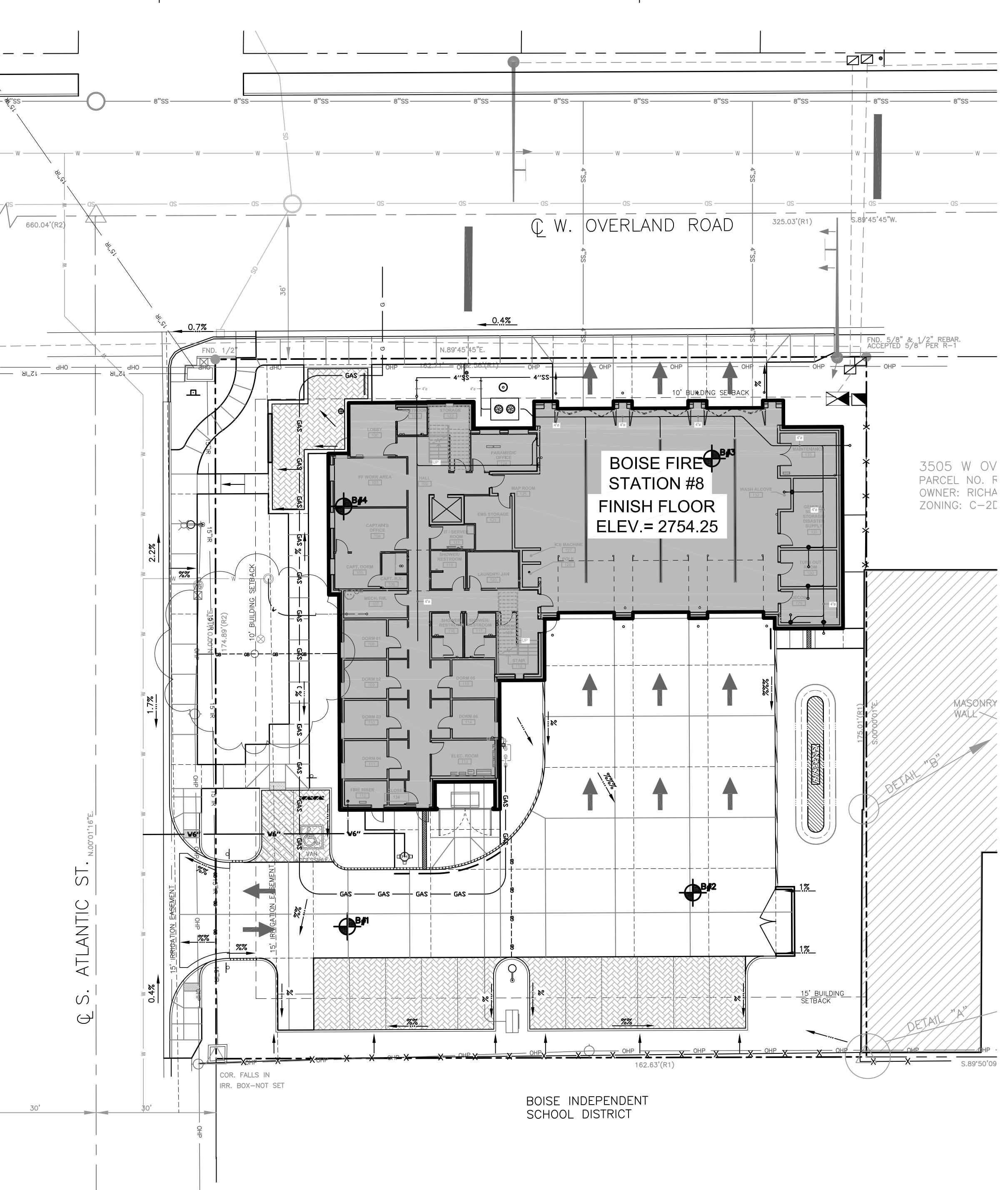
- LIMIT TURF SUBGRADE PREPARATION TO AREAS TO BE PLANTED. NINCH GRADED SUBGRADES. LOOSEN SUBGRADE TO A MINIMUM DEPTH OF 4 INCHES. REMOVE STONES LARGER THAN 1 INCH AND ANY STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEous MATTER AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY.
- SPREAD PLANTING SOIL TO A DEPTH OF 8 INCHES IN TURF AREAS AND 18 INCHES AT SHRUB BED AREAS BUT NOT LESS THAN REQUIRED TO MEET FINISH GRADES AFTER LIGHT ROLLING AND NATURAL SETTLEMENT. DO NOT SPREAD IF PLANTING SOIL OR SUBGRADE IS FROZEN, MUDDY, OR EXCESSIVELY WET.
- SPREAD PLANTING SOIL OVER LOOSEND SUBGRADE.
- REDUCE ELEVATION OF PLANTING SOIL TO ALLOW FOR SOIL THICKNESS OF SOD.
- UNCHANGED SUBGRADES. IF TURF IS TO BE PLANTED IN AREAS UNALTERED OR UNDISTURBED BY EXCAVATING, GRADING, OR SURFACE-SOIL STRIPPING OPERATIONS, PREPARE SURFACE SOIL AS FOLLOWS:
  - REMOVE EXISTING GRASS, VEGETATION, AND TURF. DO NOT MIX INTO SURFACE SOIL.
  - LOOSEN SURFACE SOIL TO A DEPTH OF AT LEAST 6 INCHES. PROVIDE WEED ABATEMENT PROCEDURE. APPLY SOIL AMENDMENTS AND FERTILIZERS ACCORDING TO PLANTING SOIL MIX PROPORTIONS AND MIX THOROUGHLY INTO TOP 2 INCHES OF SOIL. TILL SOIL TO A HOMOGENEOUS MIXTURE OF FINE TEXTURE.
  - APPLY SOIL AMENDMENTS DIRECTLY TO SURFACE SOIL BEFORE LOOSENING.
  - REMOVE STONES LARGER THAN 1 INCH IN ANY DIMENSION AND STICKS, ROOTS, TRASH, AND OTHER EXTRANEous MATTER.
  - LEGALLY DISPOSE OF WASTE MATERIAL, INCLUDING GRASS, VEGETATION, AND TURF, OFF OWNER'S PROPERTY.
- FINISH GRADING. GRADE PLANTING AREAS TO A SMOOTH UNIFORM SURFACE PLANE WITH LOOSE UNIFORMLY FINE TEXTURE. GRADE TO WITHIN PLUS OR MINUS 1/2 INCH OF FINISH ELEVATION. ROLL AND RAKE REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES. LIMIT FINISH GRADING TO AREAS THAT CAN BE PLANTED IN THE IMMEDIATE FUTURE.
- MOISTEN PREPARED AREA BEFORE PLANTING IF SOIL IS DRY. WATER THOROUGHLY AND ALLOW SURFACE TO DRY BEFORE PLANTING. DO NOT CREATE MUDDY SOIL.
- BEFORE PLANTING, OBTAIN LANDSCAPE ARCHITECT'S ACCEPTANCE OF FINISH GRADING; RESTORE PLANTING AREAS IF ERODED OR OTHERWISE DISTURBED BY CONSTRUCTION ACTIVITIES.
- DO NOT PLANT IN AREAS WHERE FLOWING RAIN, WHEN GROUND IS TOO DRY. TEMPERATURE SHALL BE BETWEEN 55 F AND 45 F FOR A 24 HOUR PERIOD. WIND SHALL BE LESS THAN 5 MPH.
- TURF SEED SHALL BE SOWN AT A RATE PER SQ FT SUPPLIER RECOMMENDATIONS.
- SEED SHALL BE HYDROSEEDED OR DRILL SEDED AT THE CONTRACTOR'S OPTION. AREAS WITH A 4:1 OR GREATER SLOPE SHALL BE HYDROSEEDED.

## EROSION AND SEDIMENT CONTROL NOTES

- ALL BMP's SHALL CONFORM TO THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES MANUAL.
- ANY CHANGE FROM THE PLANS SHALL BE APPROVED BY THE DESIGNER AND THE GOVERNING AGENCIES AS APPLICABLE.
- THE CONTRACTOR SHALL CONTACT DIGLINE 48 HOURS PRIOR TO ANY EXCAVATION. 1-800-342-1585.
- THIS DRAWING HAS BEEN PREPARED BASED UPON INFORMATION PROVIDED, IN PART BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, BRECKON LAND DESIGN, INC. CANNOT ASSURE ITS ACCURACY AND THIS IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS DRAWING OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATE INTO IT AS A RESULT. BRECKON LAND DESIGN, INC. ASSUMES NO LIABILITY FOR ANY INFORMATION.
- RESPONSIBLE PERSON(S) SHALL BE RESPONSIBLE TO MAKE FIELD ADJUSTMENTS AS NECESSARY TO ACCOMMODATE CONSTRUCTION ACTIVITIES AND MEET ALL LOCAL STATE AND FEDERAL REQUIREMENTS.
- ALL AGGREGATES USED FOR CONSTRUCTION FROM THE SITE TO PUBLIC, DEVELOPED ROADS SHALL BE STABILIZED AS PER DETAIL.
- ANY SEDIMENT WHICH ENTERS EXISTING DRAINAGE INLETS OR THE DRAINAGE SYSTEM SHALL BE REMOVED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING DRAIN INLETS ADJACENT TO AND DOWN STREAM OF THE SITE AS REQUIRED TO REMOVE SEDIMENTS.
- Maintain optimum soil moisture as necessary to prevent dust erosion. (BMP #1).
- Contractor shall clear or grade areas necessary for construction, flag or otherwise delineate areas not to be disturbed, including vehicles and construction equipment from these areas to preserve natural vegetation. (BMP #4).
- All areas disturbed by construction activities shall be prepared and hydroseeded. A disturbed area shall be where construction activities including trenching, demolition, earthwork, material storage, staging and parking or any other form of excavation, compaction or traffic that results in the removal or displacement of existing groundcover or grade. (BMP#12).
- Hydroseed with a wood cellulose fiber mulch applied at a rate of 200 lbs per acre. Use an organic tackifier at no less than 150 lbs per acre or manufacturer's recommended rate if higher. Application of tackifier shall be heavier at edges, in valleys, and at crests of banks and other areas where seed can be moved by wind or water. Prior to project completion acceptance, all disturbed areas will be inspected for proper turf establishment. (BMP#11).
- Areas to be filled shall be cleared, grubbed to remove trees, vegetation, roots and other objectionable material and stripped of topsoil.
- Top soil shall be stock piled on site coordinate with owner for exact location. No top soil shall be removed from site.
- All storm water will be contained on site.
- Demolition is not expected for this site.
- Contractor shall park in the area designated for workman parking or off site to help prevent dirt and mud tracking.
- Provide waste containers for building materials in waste storage containment area. Dispose at a frequency according to container size.

## PROJECT DESCRIPTION

- PURPOSE  
CONSTRUCT A NEW RESIDENTIAL HOME WITH DRIVEWAY, STAIRCASE, PATIO, AND LANDSCAPE AREAS PER PLANS BY BRECKON LAND DESIGN INC.
- LOCATION  
THE SUBJECT PROPERTY IS LOCATED AT 1833 RIDGECREST DR, BOISE, IDAHO 83707.  
THE LIMITS OF CONSTRUCTION ARE APPROXIMATELY 0.20 ACRES AS SHOWN ON PLAN.  
THE MAJORITY OF ONSITE STORM WATER FROM THE AREA OF IMPACT WILL BE DIRECTED OFF SITE TO THE SUBDIVISION STORM SEWER SYSTEM/TOTAL AREAS. IT WILL BE PRETREATED FOR SEDIMENT THROUGH THE USE OF FIBER ROLLS AND STRAW WATTLES. A SMALLER PORTION OF STORMWATER, THAT WHICH FALLS DIRECTLY ONTO LANDSCAPED AREAS WILL BE ALLOWED TO PERCOLATE DIRECTLY INTO THE GROUND. STORM WATER FROM THE CITY STREETS WILL CONTINUE TO BE DIRECTED TO THE SUBDIVISION STORM DRAINAGE SYSTEM.
- SITE DESCRIPTION AND DRAINAGE  
THE SITE IS CURRENTLY AN UNDEVELOPED LOT AND BARE SLOPES THERE IS NATIVE VEGETATION LOCATED ON THE EAST SLOPE ADJACENT TO THE PROPERTY. THE SITE IS BOUNDED BY EXISTING RESIDENTIAL HOUSING AND EMPTY LOTS ON THE NORTH, EAST, AND WEST. THE SOUTH PROPERTY LINE IS BORDERED BY EXISTING FOOTHILLS VEGETATION.  
1. EXISTING DRAINAGE  
THE EXISTING SITE IS RELATIVELY STEEP WITH SLOPES RANGING FROM 3% TO 35% WITHIN THE DISTURBANCE AREA. FLOWS TEND TO SLOPE TOWARDS THE SOUTHERN PROPERTY LINE. UNDISTURBED AREAS ALONG THE SOUTH BOUNDARY SLOPE AWAY FROM THE PROPERTY IN THAT DIRECTION AT AN AVERAGE OF 10%. STORM WATER RUNOFF GENERALLY STAYS ON SITE AND PERCOLATES DIRECTLY INTO THE GROUND THROUGH PERMEABLE BARE LAND SURFACES, AREAS DIRECTLY ADJACENT TO THE PROPERTY LINE FLOW DIRECTLY INTO THE SUBDIVISIONS STORM SEWER SYSTEM IN THE PUBLIC RIGHT-OF-WAY AND THE NATURALLY VEGETATED AREAS TO THE SOUTH. INLETS ARE LOCATED DIRECTLY OFF SITE ALONG RIDGECREST DR.  
2. DRAINAGE DURING CONSTRUCTION  
THE MAJORITY OF RUNOFF FROM THE PROPOSED CONSTRUCTION AREA WILL BE CONTAINED ON SITE WHILE A LESSER PORTION WILL CONTINUE TO FLOW INTO THE PUBLIC RIGHT OF WAY AND THE NATURAL AREAS AS DESCRIBED ABOVE. FIBER ROLLS AND STRAW WATTLES WILL BE INSTALLED ALONG THE DOWNSTREAM AREAS OF CONSTRUCTION TO HELP PREVENT RUNOFF ONTO ADJACENT PROPERTIES. EXISTING VEGETATION WILL BE PRESERVED TO THE EXTENT PRACTICAL TO HELP PREVENT EROSION.
- POST CONSTRUCTION  
ALL TREATMENT AND RETENTION OF STORM WATER WILL BE RETURNED TO THE EXISTING CONDITIONS WITH THE ADDITIONAL BENEFITS OF STABILIZED SURFACES TO CONTROL THE EROSION AND SEDIMENTATION FROM RUNOFF AS WELL AS VEGETATED FILTRATION THROUGH NEW LANDSCAPE AREAS.
- DISTURBED AREA  
TOTAL DISTURBED AREA WILL BE APPROXIMATELY 0.20 ACRES. TOTAL PROPERTY SIZE IS APPROXIMATELY 0.20 ACRES.



## 1 EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1" = 20'-0"



0' 10' 20' 40'

## GENERAL NOTES

- ALL BMP'S SHALL CONFORM TO THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES MANUAL.
- CONTRACTOR SHALL HAVE PLANS AT WORK SITE STAMPED "APPROVED FOR CONSTRUCTION" BY THE BOISE CITY PUBLIC WORKS DEPARTMENT.
- ANY CHANGE FROM THE PLANS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT AND THE ENGINEER, AS APPROPRIATE.
- CONTRACTOR SHALL CONTACT DIGLINE 48 HOURS PRIOR TO ANY EXCAVATION. 1-800-342-1585.
- ALL CONSTRUCTION IN THE RIGHT-OF-WAY SHALL CONFORM TO THE LATEST EDITION OF THE ISPC AND THE ACDH SUPPLEMENTAL SPECIFICATIONS, AS EDITIONED TO DISTRICT POLICY STANDARDS, AND THE ISPC IS NOT ALLOWED UNLESS SPECIFICALLY AND PREVIOUSLY APPROVED IN WRITING BY THE DISTRICT.
- THIS DRAWING HAS BEEN PREPARED BASED UPON INFORMATION PROVIDED, IN PART BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, BRECKON LAND DESIGN INC. CANNOT ASSURE ITS ACCURACY AND THIS IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS DRAWING OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATE INTO IT AS A RESULT. BRECKON LAND DESIGN, INC. ASSUMES NO LIABILITY FOR ANY INFORMATION.
- THE RESPONSIBLE PERSON (S) SHALL BE RESPONSIBLE TO MAKE FIELD ADJUSTMENTS AS NECESSARY TO ACCOMMODATE CONSTRUCTION ACTIVITIES AND MEET ALL LOCAL STATE AND FEDERAL REQUIREMENTS.

## ESC BMP IMPLEMENTATION

- ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER, SEP, ETC.) CONTRA TO GRAVEL CONSTRUCTION ENHANCED, ETC.) MUST BE IN PLACE FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- SEDIMENT BARRIERS APPROVED FOR USE INCLUDE SEDIMENT FENCE, BERMS CONSTRUCTED OUT OF MULCH, CHIPPING, OR OTHER STABILIZED MATERIAL, STRAW WATTLES, OR OTHER APPROVED MATERIAL.
- SENSITIVE RESOURCES INCLUDING, BUT NOT LIMITED TO, TREES, WETLANDS, AND RIPARIAN PROTECTION AREAS SHALL BE CLEARLY DELINEATED WITH ORANGE CONSTRUCTION FENCING OR CHAIN LINING IN A MANNER THAT IS CLEARLY VISIBLE TO ANYONE IN THE AREA. NO ACTIVITIES ARE PERMITTED ON OR CLOSE TO THE CONSTRUCTION FENCE.
- CONSTRUCTION TRASHES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, STREET SWEEPING AND VACUUMING MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN, FREE OF DUST AND CONSTRUCTION DEBRIS.
- RUN-ON AND RUN-OFF CONTROLS SHALL BE IN PLACE AND FUNCTIONING PRIOR TO BEGINNING SUBSTANTIAL CONSTRUCTION ACTIVITIES. RUN-ON AND RUN-OFF CONTROL MEASURES INCLUDE: SLOPE DRAINS (WITH OUTLET PROTECTION), CHECK DAMS, SURFACE ROUGHENING, AND BANK STABILIZATION.
- IF ANY EVIDENCE OF WEED GERMINATION EXISTS AFTER TWO (2) APPLICATIONS, CONTRACTOR SHALL BE DIRECTED TO PERFORM A THIRD APPLICATION.
- A CERTIFICATE OF PLANTING AND HYDROSEEDING, ALL PLANTING AREAS SHALL BE WEED FREE.

## WEED ABATEMENT NOTES:

- ALL AREAS TO BE PLANTED OR HYDROSEEDED SHALL HAVE NEEDS ABATEMENT OPERATIONS PERFORMED ON THEM PRIOR TO PLANTING OR HYDROSEEDING. CONTRACTOR SHALL SWEEP EXPOSED AREAS WITH ROUND-UP (CONTACT HERBICIDE) OR APPROVED EQUAL.
- DO NOT WATER FOR AT LEAST SEVEN (7) DAYS. REMOVE EXPOSED NEEDS FROM THE SITE.
- CONTRACTOR SHALL OPERATE THE AUTOMATIC IRRIGATION SYSTEM FOR A PERIOD OF 14 DAYS. AT CONCLUSION OF THIS WATERING PERIOD, DISCONTINUE WATERING FOR THREE TO FIVE (3-5) DAYS.
- APPLY SECOND APPLICATION OF ROUND-UP TO ALL EXPOSED NEEDS. APPLY IN STRICT CONFORMANCE WITH MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS. DO NOT WATER FOR AT LEAST SEVEN (7) DAYS.
- IF ANY EVIDENCE OF WEED GERMINATION EXISTS AFTER TWO (2) APPLICATIONS, CONTRACTOR SHALL BE DIRECTED TO PERFORM A THIRD APPLICATION.
- A CERTIFICATE OF PLANTING AND HYDROSEEDING, ALL PLANTING AREAS SHALL BE WEED FREE.

## EROSION AND SEDIMENTATION CONTROL LEGEND

- (IP) CURB INLET PROTECTION. PRIOR TO CONSTRUCTION INSTALL SEDIMENT BARRIER PER STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES. MAINTAIN UNTIL ALL CONSTRUCTION IS COMPLETE. REMOVE SEDIMENT BUILD UP AS NEEDED.
- (SB) IN TURF AREAS PROVIDE FILTER FABRIC FENCE INLET FILTER.
- (FB) IN ASPHALT AREAS PROVIDE DANDY BAG OR DANDY CURB BAG OR APPROVED EQUAL. (800) 541-2284, www.dandyproducts.com
- (CS) STABILIZED ENTRANCE. PRIOR TO CONSTRUCTION INSTALL AND MAINTAIN 50 FEET OF 6" MINUS PITRUN MATERIAL AS STABILIZER PER STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES. MATERIAL SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION UNTIL BASE MATERIAL IS INSTALLED. PROVIDE SWEEPING DAILY OR AS NEEDED TO REMOVE ANY TRACKING OF MUD AND/OR DIRT ONTO EXISTING ASPHALT.
- (FR) FIBER ROLLS OR STRAW WATTLES. INSTALL FIBER ROLLS AS INDICATED PER THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES.
- (CW) CONCRETE WASHOUT LOCATION.
- (H) HAZARD MATERIALS STORAGE AREA WITH SPILL KIT AND WASTE CONTAINER.
- (CP) CONTRACTOR PARKING AREA.
- (SA) STAGING AREA FOR EQUIPMENT AND MATERIAL STORAGE.
- (P) POTENTIAL RECEIVING WATERS POINT OR SITE DISCHARGE POINT.
- (DP) POST SITE ISSUED EROSION CONTROL AND STORM WATER MANAGEMENT SIGN.
- (SP) PROVIDE GRAVEL BAG AT FLOW LINE OF BORROW DITCH AT THIS LOCATION.
- (GP) INCREASED STREET SWEEPING, WASHING & CLEANING MEASURES ALONG ROAD FRONTAGE CONSTRUCTION.
- (SW) PORTABLE RESTROOM LOCATION.
- (CL) CONSTRUCTION LIMITS, EXTENTS OF SITE DISTURBANCE.

## EROSION & SEDIMENTATION CONTROL LEGEND

- PROPOSED LANDSCAPE AND TURF REPAIR AREAS.
- PROPOSED CONCRETE DRIVEWAY, WALKWAY AND PATIO.
- STAGING AREA.
- STABILIZED CONSTRUCTION SEE DETAIL.
- PROPOSED BUILDING.

## CALLOUT LEGEND

- PROPOSED LAWN AND LANDSCAPING FINAL STABILIZATION.
- EXISTING IMPERVIOUS AREAS TO REMAIN.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL STORM WATER INLETS DIRECTLY DOWNSTREAM OF SITE AND INSTALLING INLET PROTECTION AS SPECIFIED.

## CONTACTS

RESPONSIBLE PERSON(S):  
LICENSE NO.:  
EXPIRES:

SIGNATURE: DATE:  
COMPANY: ADDRESS:

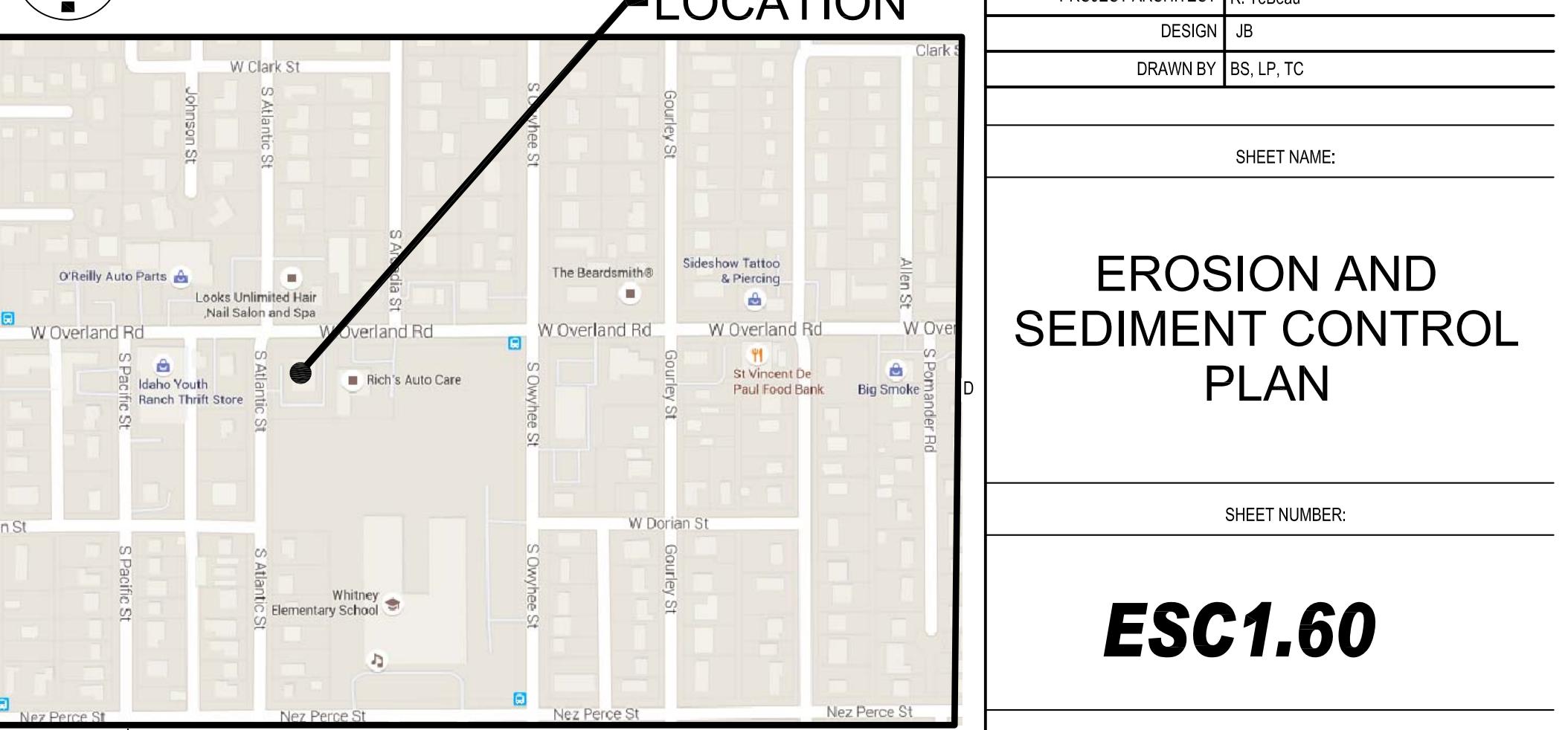
CITY OF BOISE  
LICENSED EROSION AND SEDIMENT CONTROL  
PLAN DESIGNER LICENSE NO: CON05-00354  
JON BRECKON

SIGNATURE: DATE:  
COMPANY: BRECKON LAND DESIGN, INC.  
ADDRESS: 101 EAST 50TH STREET  
GARDEN CITY, IDAHO 83714

REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

| PROJECT PHASE     | Project Status |
|-------------------|----------------|
| PROJECT NUMBER    | 15045          |
| PROJECT MANAGER   | R. TeBeau      |
| PROJECT ARCHITECT | R. TeBeau      |
| DESIGN            | JB             |
| DRAWN BY          | BS, LP, TC     |
| Sheet Name:       |                |



COLE ARCHITECTS

COLE ARCHITECTS | 802 W. BANNOCK SUITE 208  
Boise, ID 83702 | (208) 345-1800

TCA  
architecture • planning

TCA | 811 Roosevelt Way NE  
Seattle, WA 98115 | (208) 522-3820  
STAMP:  
NOT FOR CONSTRUCTION

BRECKON landdesign  
• Landscape Architecture  
• Erosion & Sediment Control  
• Geographic Info Systems  
• Graphic Communication  
• Water Management  
• Irrigation Design  
• Land Planning

PROJECT INFORMATION:  
BOISE CITY OF TREES  
BOISE FIRE DEDICATION  
City of Boise Fire Station 8  
3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
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|      |      |             |

Sheet Name:

ESC1.60

SHEET NUMBER:

1.29.16

EROSION AND SEDIMENT CONTROL PLAN

ESC1.60

5

4

3

2

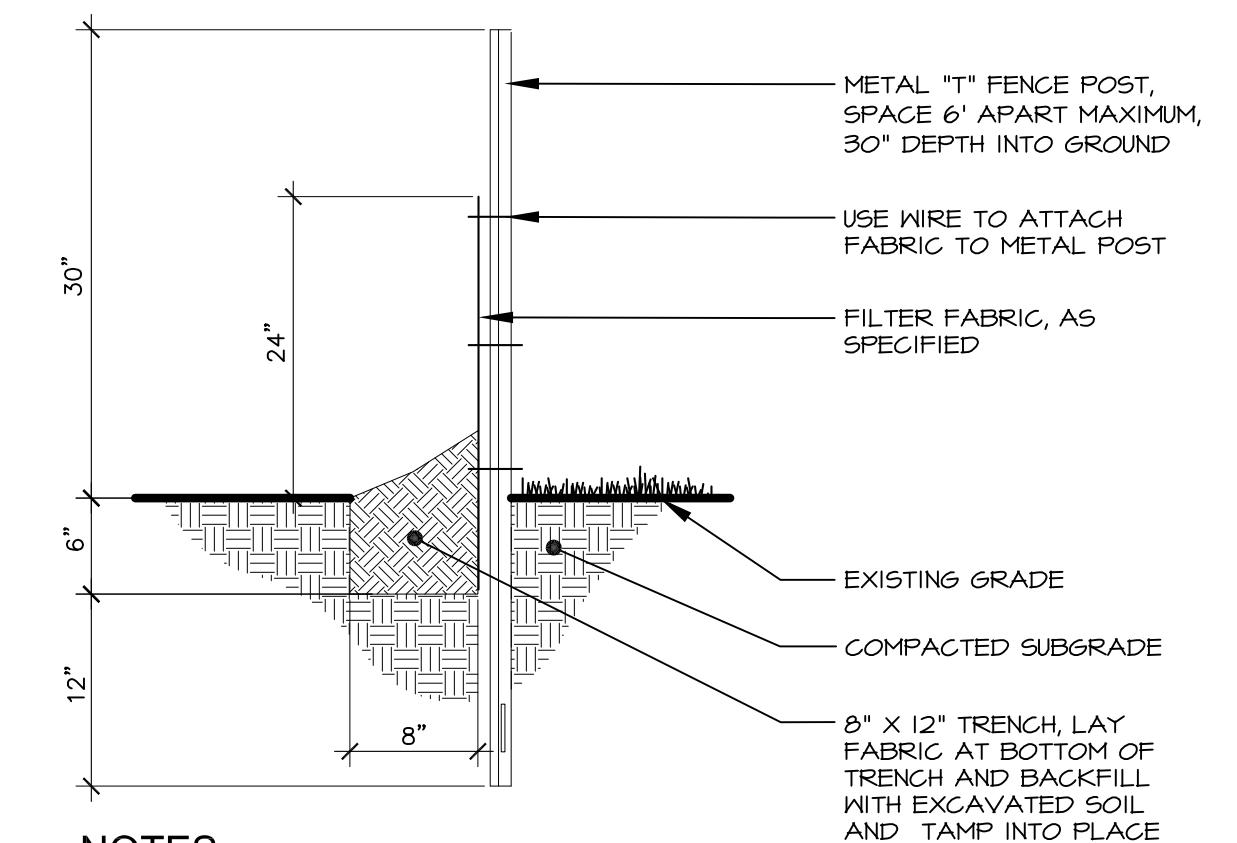
1

A

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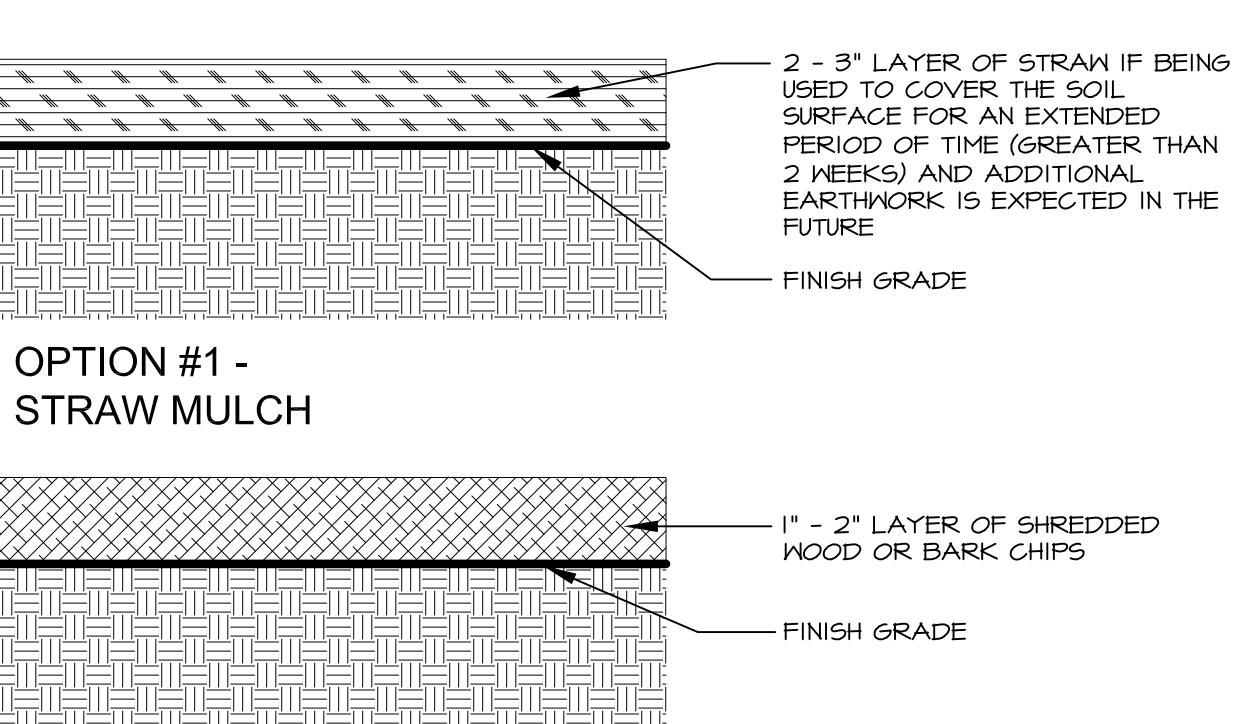


**NOTES:**

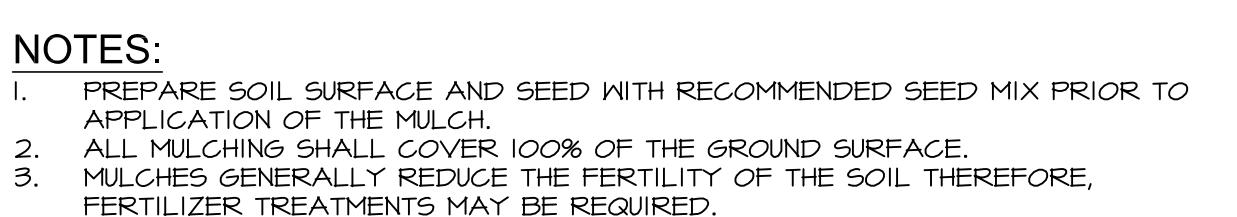
1. INSTALL SILT FENCE AT TOE OF FILL SLOPES AND LOCATION WHERE SEDIMENT MAY MOVE OFF SITE.
2. SILT FENCES SHALL REMAIN IN PLACE UNTIL SLOPES HAVE STABILIZED.
3. SEE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES, BMP #25 FOR ADDITIONAL INFORMATION.

## 1 SILT FENCE

Scale: 1" = 1'-0"

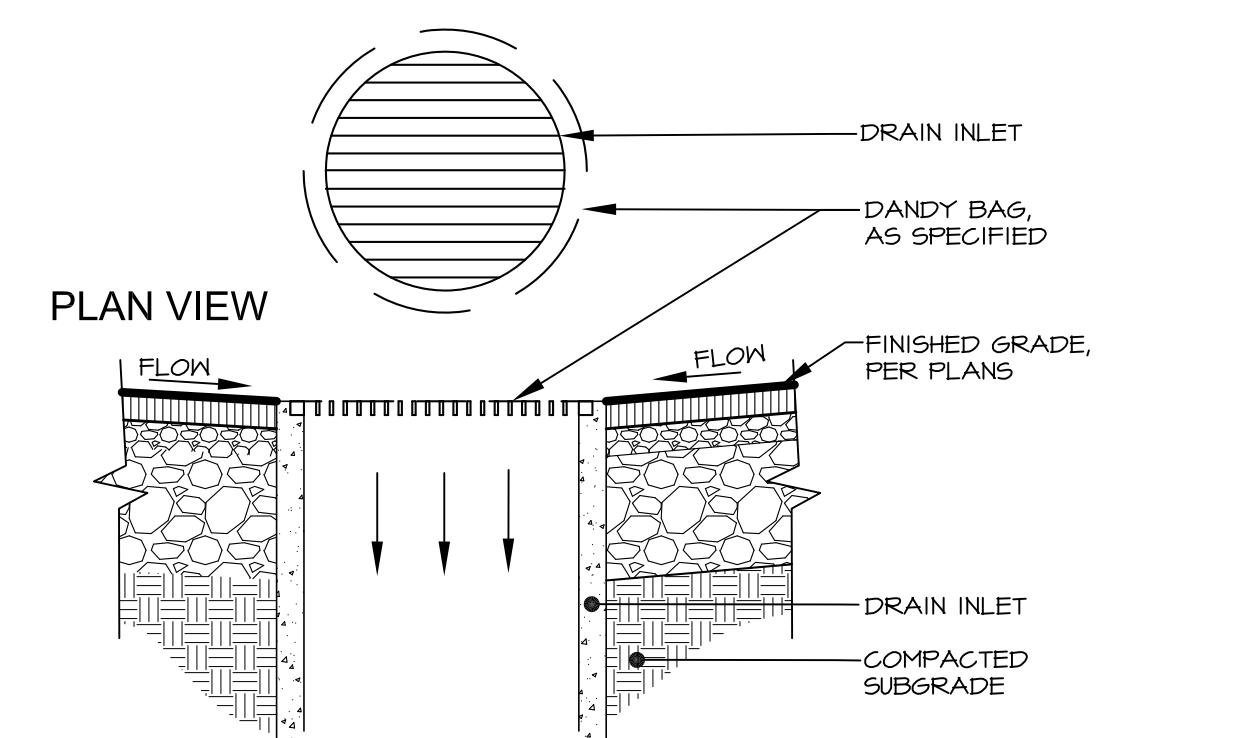


### OPTION #1 - STRAW MULCH

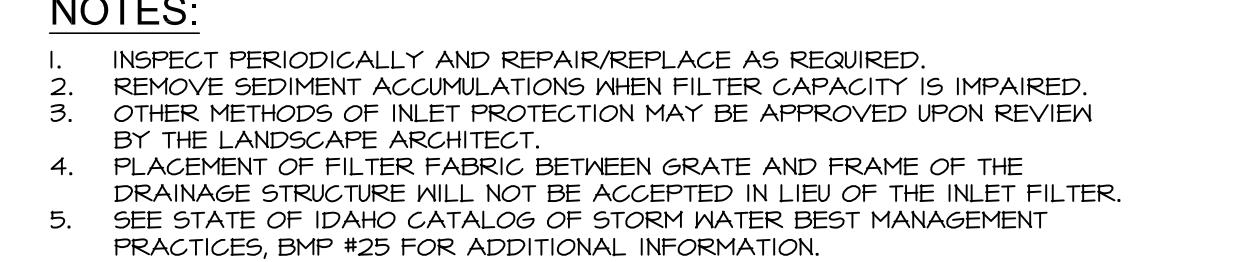


### 2 MULCH

NOT TO SCALE



### SECTION VIEW



**NOTES:**

1. INSPECT PERIODICALLY AND REPAIR/REPLACE AS REQUIRED.
2. REMOVE SEDIMENT ACCUMULATIONS WHEN FILTER CAPACITY IS IMPAIRED.
3. OTHER METHODS OF INLET PROTECTION MAY BE APPROVED UPON REVIEW BY THE LANDSCAPE ARCHITECT.
4. PLACEMENT OF FILTER FABRIC BETWEEN GRATE AND FRAME OF THE DRAINAGE STRUCTURE WILL NOT BE ACCEPTED IN LIEU OF THE INLET FILTER.
5. SEE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES, BMP #25 FOR ADDITIONAL INFORMATION.

## 3 DRAIN INLET FILTER (TYPE 2)

Scale: 3/4" = 1'-0"

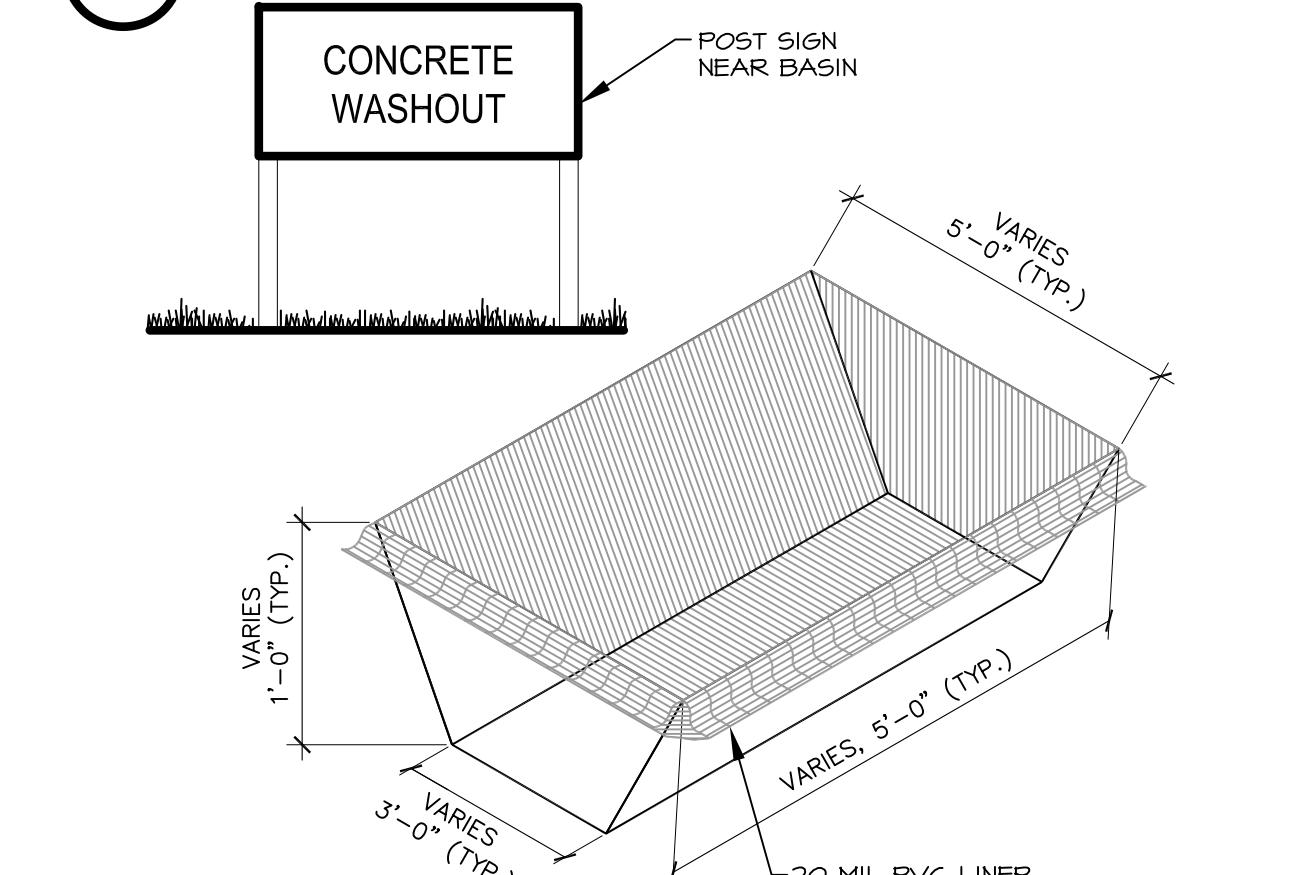
### SECTION VIEW

**NOTES:**

1. INSPECT PERIODICALLY AND REPAIR/REPLACE AS REQUIRED.
2. REMOVE SEDIMENT ACCUMULATIONS WHEN FILTER CAPACITY IS IMPAIRED.
3. OTHER METHODS OF INLET PROTECTION MAY BE APPROVED UPON REVIEW BY THE LANDSCAPE ARCHITECT.
4. PLACEMENT OF FILTER FABRIC BETWEEN GRATE AND FRAME OF THE DRAINAGE STRUCTURE WILL NOT BE ACCEPTED IN LIEU OF THE INLET FILTER.
5. SEE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES, BMP #25 FOR ADDITIONAL INFORMATION.

## 4 DRAIN INLET FILTER (TYPE 1)

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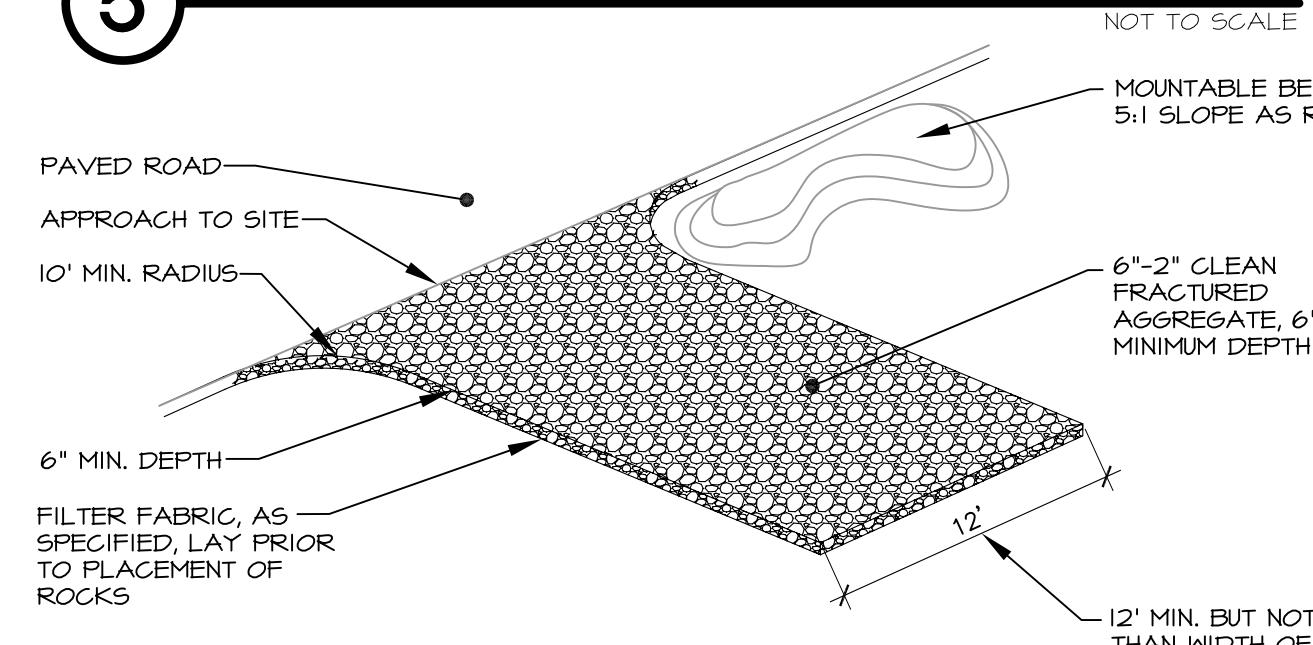


**NOTES:**

1. DIMENSIONS VARY. RESPONSIBLE PERSON SHALL SIZE BASIN APPROPRIATELY.

## 5 CONCRETE WASHOUT AREA

NOT TO SCALE

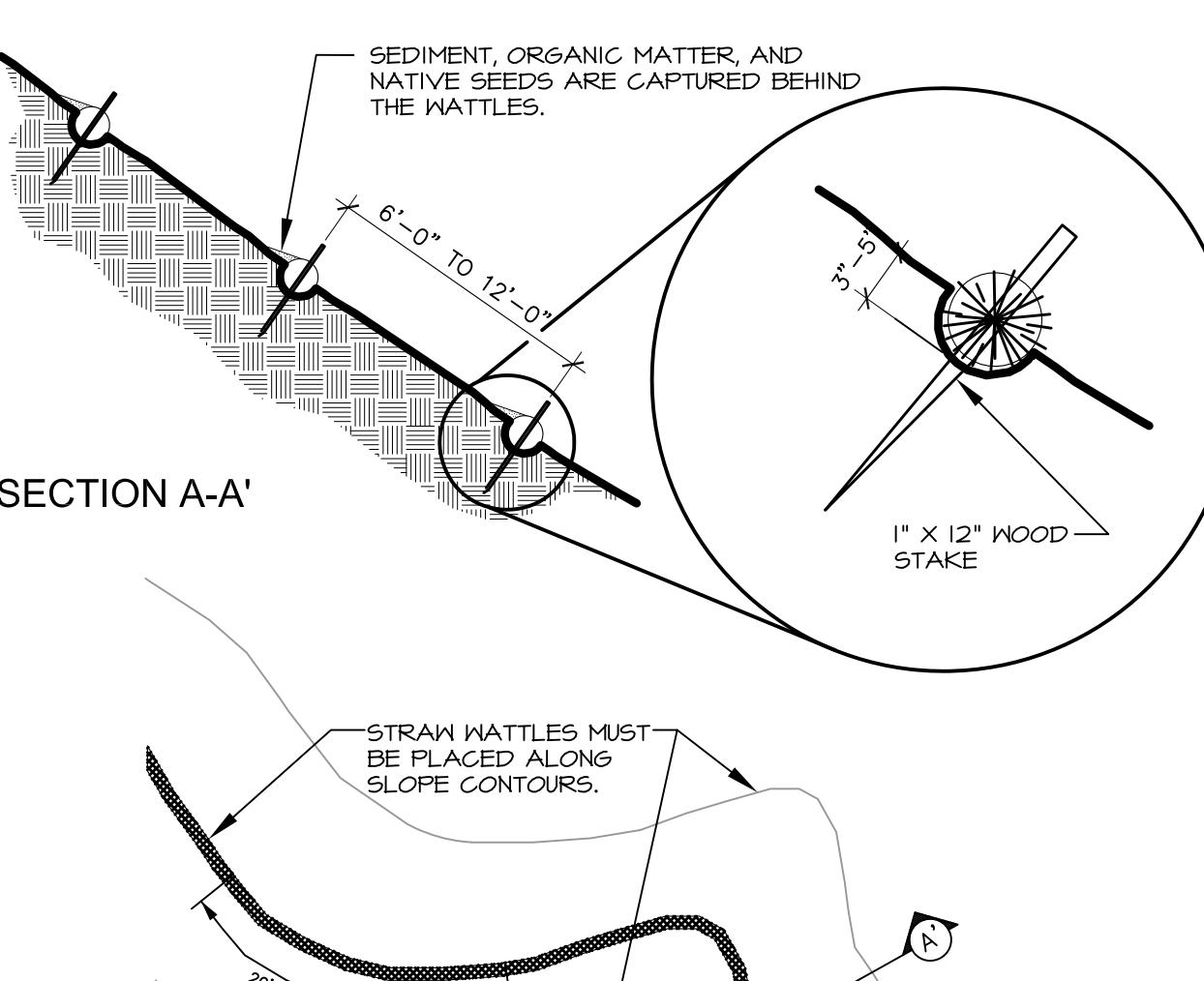


**NOTES:**

1. THE ARMORED APPROACH SHALL BE INSTALLED AT THE COMMENCEMENT OF SITE WORK. IT SHALL REMAIN IN PLACE UNTIL THE APPROACH AND SITE ARE PAVED.
2. MATERIAL USED SHALL CONTAIN NO FINES.
3. THIS DETAIL SHALL BE UTILIZED AT ALL APPROACHES ONTO PUBLIC ROADS.
4. APPROACHES SHALL BE MAINTAINED IN A FASHION WHICH PREVENTS SEDIMENT FROM TRACKING/FLOWING ONTO PUBLIC RIGHT-OF-WAY. ADDITIONAL ROCK SHOULD BE ADDED AS NECESSARY. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY SHALL BE REMOVED IMMEDIATELY.
5. APPROACHES SHALL NOT BE DROPPED TOWARDS CONSTRUCTION ENTRANCES HAVING 5% SLOPES. NO WHEELS SHALL BE PERMITTED.
6. WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE DRAINING INTO AN APPROVED SEDIMENT TRAPPING DEVICE. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL OCCUR AFTER EACH RAIN.

## 6 STABILIZED CONSTRUCTION ENTRY

Scale: 1/8" = 1'-0"

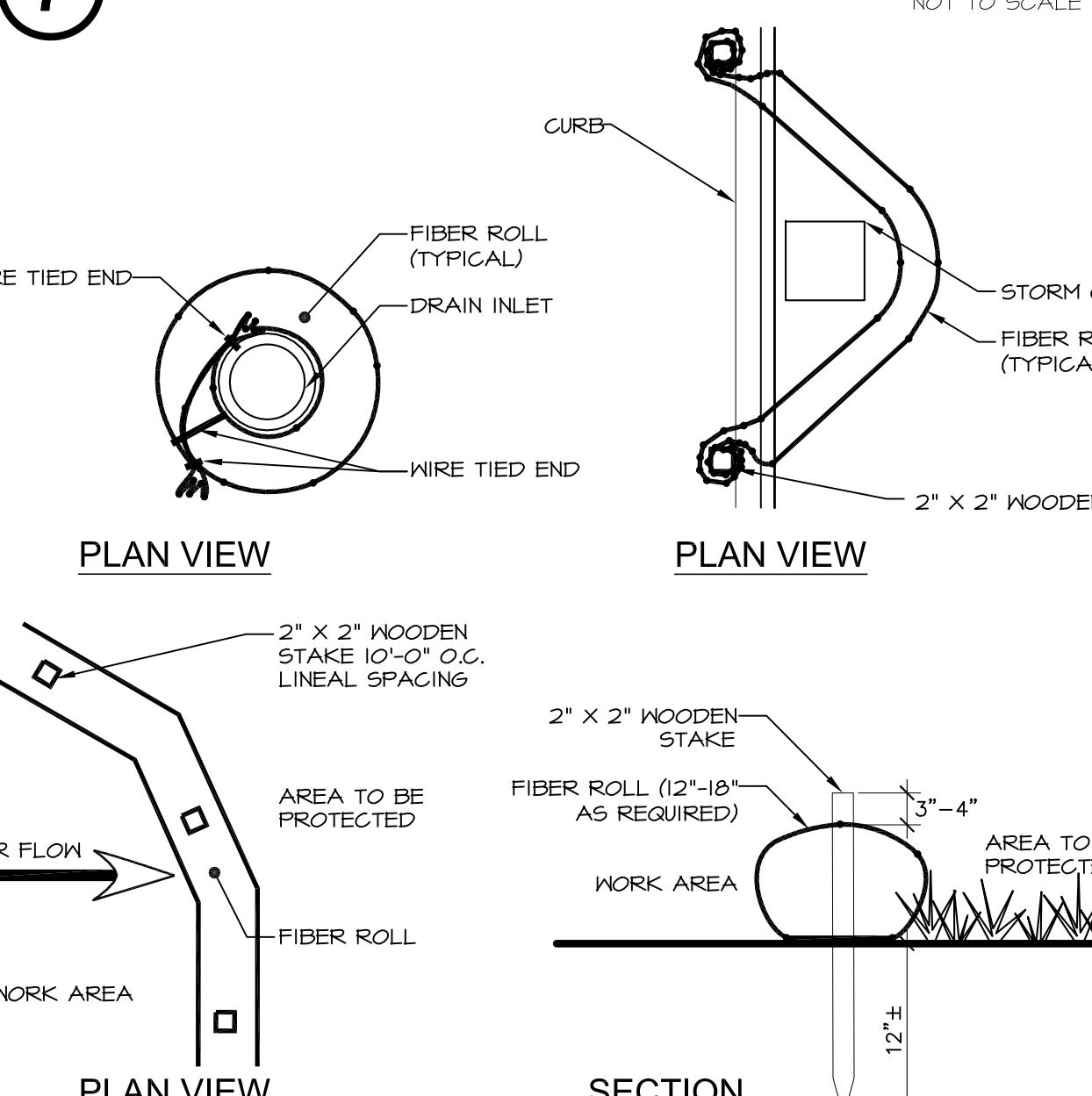


**NOTES:**

1. STRAW WATTERS ARE TUBES MADE FROM STRAW BOUND W/ PLASTIC NETTING. THEY ARE APPROXIMATELY 8' LONG, AND 20'-0" TO 30'-0" LONG.
2. STRAW WATTERS ARE SEDIMENT CARRIERS THAT HELP CONTROL RILL EROSION BY REDUCING SLOPE GRADIENT, INCREASING INFILTRATION RATES AND BY EROSION BY REDUCING A FAVORABLE ENVIRONMENT FOR PLANT ESTABLISHMENT.
3. STRAW WATTER INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE WATTER IN A TRENCH 3'-5" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND WATTER.

## 7 STRAW WATTERS

NOT TO SCALE



**NOTES:**

1. FIBER ROLL TO BE 'FILTREXX' FILTER SOX OR APPROVED EQUAL.
2. FIBER ROLL COMPOST/SOIL/ROCK/SEED FILL TO MEET APPLICATION REQUIREMENTS.
3. FIBER ROLL DEPICTED IS FOR MINIMUM SLOPES. GREATER SLOPES MAY REQUIRE LARGER SOCKS PER LANDSCAPE ARCHITECT.
4. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY LANDSCAPE ARCHITECT.

## 8 FIBER ROLL DETAIL

NOT TO SCALE

### CONTACTS

RESPONSIBLE PERSON(S):  
LICENSE NO.:  
EXPIRES:  
SIGNATURE: DATE:  
COMPANY:  
ADDRESS:  
CITY OF BOISE  
LICENSED EROSION AND SEDIMENT CONTROL  
PLAN DESIGNER LICENSE NO.: CON05-00354  
JON BRECKON  
SIGNATURE: DATE:  
COMPANY: BRECKON LAND DESIGN, INC.  
ADDRESS: 181 EAST 50TH STREET  
GARDEN CITY, IDAHO 83114

## DRYLAND SEEDING REQUIREMENTS

**General Overview:**  
This report outlines recommended revegetation and slope stabilization measures for disturbed cut and fill slopes within the project limits as defined on the accompanying plan which will be seeded with the dryland seed mix and not irrigated. These recommendations are made to prevent short term and long term soil erosion as well as to provide an aesthetic reclamation which will blend with the existing natural surrounding area. The measures include revegetation and hydroseeding procedures following topsoil distribution and fine grading. The area to be revegetated consists of all disturbed areas related to grading for construction and any other areas disturbed in the process of construction. The slopes to be affected vary widely in degree and aspect.

**General Earthwork:**  
All work shall be limited to the area required for construction with minimal, if any, disturbance to the surrounding natural slope or vegetation. All finished grades shall be smooth and rounded to ensure a natural transition between new and existing grades. Refer to grading and drainage plans for additional requirements.

**Site Preparation:**  
Earthwork process should begin with clearing large shrubs from the areas to be disturbed. Woody stems and branches should be chipped on site to improve the amount of organic material in the top soil. Natural topsoil occurs at varying depths on the project site. The topsoil should be excavated and stockpiled at designated storage areas prior to the proposed grading operations.

**Topsoil Distribution:**  
Once the general earthwork is complete and rough grading has been accomplished, the topsoil should be redistributed within the area to minimum depths as specified. Where needed, slopes should be graded witheration to hold topsoil adequately. Topsoil should be spread and lightly compacted utilizing a small cleated tractor moving perpendicular to the contours or another method with equal capability. It is our recommendation that any necessary mechanical means of erosion control be in place prior to beginning site disturbance.

Once topsoil has been distributed and graded, reseeding shall follow immediately. In order to eliminate surface crusting and to facilitate better root penetration, the surface should be scarified prior to seeding.

**Seeding:**  
Apply to the project site by hydroseeding or sodding. The following information provides material and execution for seeding.

**Fertilizer-Fiber Mulch Material:**  
Kiwi Fertilizer from Quattro Environmental, a composted poultry based mulch material free of growth or germination inhibiting ingredients. Apply at the rate of 2000 lbs. per acre.

**Organic Soil Amendment:**  
Kiwi Power from Quattro Environmental (or approved equal) applied at 5 gallons per acre.

**Tackifier:**  
Mulch tackifier soil stabilizer - Ecology controls M-Binder. Tackifier applied at the rate of 80 lbs. per acre. Granite Seed 100 West 100 North P.O. Box 177 Lehi, Utah 84043 1-800-768-4433 (or approved equal)

**Hydroseeding:**  
Mix specified seed and organic soil amendment in water per manufacturer's recommendations. Apply seeded slurry evenly in two intersection directions. Do not hydroseed areas in excess of that which can be mulched on some day. Keep off roads, walks, structures and areas not to be seeded. Clean up these areas. After hydroseed, track in seed with a chain crawler with track marks perpendicular to the slope. After tracked, mulch slope with 2000 lbs. per acre of fertilizer-fiber mulch material and 80 lbs. per acre of tackifier.

**Maintenance:**  
Immediately reseed areas which show bare spots. Minimum acceptable plant coverage is 80 percent after one growing season. Protect seeded areas with wading dimensions during maintenance period. The seed will require approximately ninety (90) days of favorable growing conditions to germinate and become established for successful survival with normal minimal summer precipitation.

**Seeding Time:**  
The optimal seeding time shall be in fall, between mid September and mid October. If seeding is applied too early or too late and proper germination is not realized prior to fall dormancy, then reseeding shall be applied in early spring, as soon as soil is workable (not muddy) between March and mid May. This planting time provides the optimum weather conditions for seed germination and seedling survival rate. Seeding after November 20, 'dormant seeding' insures that the seed does not germinate prior to freezing winter temperatures and seed should be in place for the early spring rains.

**Water:**  
The contractor will provide supplemental water to ensure proper seed germination.

**Fertilization:**  
Fertilization is not recommended for reclamation seeding due to promotion of weed competition. If weeds are apparent, contact landscape architect for weed removal requirements.

**Erosion Control:**  
Under normal circumstances and adherence to the construction practices described in the specifications, the above recommended erosion control measure should provide a stable slope condition. To avoid incidental erosion, it is imperative that the slopes, once prepared, remain undisturbed until seeding germinates and is established.

An 80% vegetation cover is recommended to control erosion. Surface conditions should be monitored daily. If erosion detrimental to the slope is observed or anticipated due to excessive rainfall, remedial measures shall be implemented as required. Refer to the Storm Water Pollution Prevention Plan for additional requirements.

## DISTURBED AREAS

**GENERAL OVERVIEW:**  
THIS REPORT OUTLINES RECOMMENDED REVEGETATION AND SLOPE STABILIZATION MEASURES FOR DISTURBED CUT AND FILL SLOPES WITHIN THE PROJECT LIMITS AS DEFINED ON THE ACCOMPANYING PLAN. THESE RECOMMENDATIONS ARE MADE TO PREVENT SHORT TERM AND LONG TERM SOIL EROSION AS WELL AS TO PROVIDE AN AESTHETIC RECLAMATION WHICH WILL BLEND WITH THE EXISTING NATURAL SURROUNDING AREA. THE AREA TO BE REVEGETATED CONSISTS OF DISTURBED AREAS RELATED TO GRADING FOR THE NEW GARAGE AND LANDSCAPE PLANTINGS AND ANY OTHER AREAS DISTURBED IN THE PROCESS OF CONSTRUCTION. THE SLOPES TO BE AFFECTED ARE DISTURBED AREAS TO BE REMEDIED.

**GENERAL EARTHWORK:**  
ALL WORK SHALL BE LIMITED TO THE AREA REQUIRED FOR CONSTRUCTION WITH MINIMAL, IF ANY, DISTURBANCE TO THE SURROUNDING NATURAL SLOPE OR VEGETATION. ALL FINISHED GRADES SHALL BE SMOOTH AND ROUNDED TO ENSURE A NATURAL TRANSITION BETWEEN NEW AND EXISTING GRADES.

**SITE PREPARATION:**  
EARTHWORK PROCESS SHOULD BEGIN WITH CONSTRUCTION OF THE TEMPORARY ACCESS RAMP FOR ACCESS TO THE OVERLAND BACK YARD. NATURAL TOPSOIL OCCURS AT VARYING DEPTHS ON THE PROJECT SITE. THE TOPSOIL SHOULD BE EXCAVATED AND STOCKPILED AT DESIGNATED STORAGE AREAS PRIOR TO THE PROPOSED LANDSCAPING.

**TOPSOIL DISTRIBUTION:**  
ONCE THE GENERAL HARDSCAPE AREAS ARE COMPLETED AND ROUGH GRADING HAS BEEN ACCOMPLISHED, THE TOPSOIL SHOULD BE REDISTRIBUTED OVER THE AREA TO A MINIMUM DEPTH OF SIX (6) INCHES OR AS ALLOWED BY THE SPECIFICATIONS. TOPSOIL SHOULD BE SPREAD AND LIGHTLY COMPACTED UTILIZING A SMALL CLEATED TRACTOR MOVING PERPENDICULAR TO THE CONTOURS OR ANOTHER METHOD WITH EQUAL CAPABILITY. IT IS OUR RECOMMENDATION THAT ANY NECESSARY MECHANICAL MEANS OF EROSION CONTROL BE IN PLACE PRIOR TO BEGINNING SITE DISTURBANCE. REFER TO THE EROSION AND SEDIMENT CONTROL PLAN FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

ONCE TOPSOIL HAS BEEN DISTRIBUTED AND GRADED, NEW SOIL, LANDSCAPE PLANTING AND MULCH SHALL BE INSTALLED INITIALLY TO REDUCE THE POSSIBLE AMOUNT OF EROSION.

**EROSION CONTROL:**  
UNDER NORMAL CIRCUMSTANCES AND ADHERENCE TO THE CONSTRUCTION PRACTICES DESCRIBED IN THE PLANS, THE ABOVE RECOMMENDED EROSION CONTROL MEASURE SHOULD PROVIDE A STABLE SLOPE CONDITION. TO AVOID INCIDENTAL EROSION, IT IS IMPERATIVE THAT THE SLOPES, ONCE PREPARED, REMAIN UNDISTURBED UNTIL NEW LANDSCAPING (SOIL AND/OR SHRUBS AND MULCH) ARE INSTALLED AND ESTABLISHED.

A 100% EROSION CONTROL COVERAGE IS REQUIRED TO CONTROL EROSION. SURFACE CONDITIONS SHOULD BE

MONITORED DAILY. IF EROSION DETERMINANT TO THE SLOPE IS OBSERVED OR ANTICIPATED DUE TO EXCESSIVE RAINFALL, REMEDIAL MEASURES SHALL BE IMPLEMENTED AS REQUIRED.

811

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Boise, ID 83702 | (208) 345-1800

TCA  
architecture • planning  
TCA | 811 Roosevelt Way NE  
Seattle, WA 98115 | (208) 522-3820

NOT FOR CONSTRUCTION  
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CONSULTANT:  
BRECKON land design

BRECKON land design  
• Landscape Architecture  
• Erosion & Sediment Control  
• Geographic Info Systems  
• Graphic Communication  
• Water Management  
• Irrigation Design  
• Land Planning  
www.breckonlanddesign.com  
Fax: 208-376-6528  
Phone: 208-376-5153  
181 East 50th Street  
Garden City, Idaho 83714

BOISE CITY OF TREES  
BOISE FIRE DEDICATION  
City of Boise Fire Station 8  
3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

MARK DATE DESCRIPTION

PROJECT PHASE Project Status  
PROJECT NUMBER 15045  
PROJECT MANAGER R. TeBeau  
PROJECT ARCHITECT R. TeBeau  
DESIGN JB  
DRAWN BY BS, LP, TC

SHEET NAME:

SHEET NUMBER:

ESC1.65

1.29.16



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YOU DIG TO HAVE  
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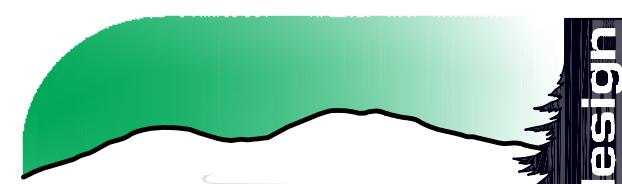
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- Landscape Architecture
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- Land Planning

 www.breckonlanddesign.com  
 Fax: 208-376-6528  
 Phone: 208-376-5153

 181 East 50th Street  
 Garden City, Idaho 83714

PROJECT INFORMATION:



City of Boise Fire Station 8

3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

| PROJECT PHASE     | Project Status |
|-------------------|----------------|
| PROJECT NUMBER    | 15045          |
| PROJECT MANAGER   | R. TeBeau      |
| PROJECT ARCHITECT | R. TeBeau      |
| DESIGN            | JB             |
| DRAWN BY          | BS, LP, TC     |

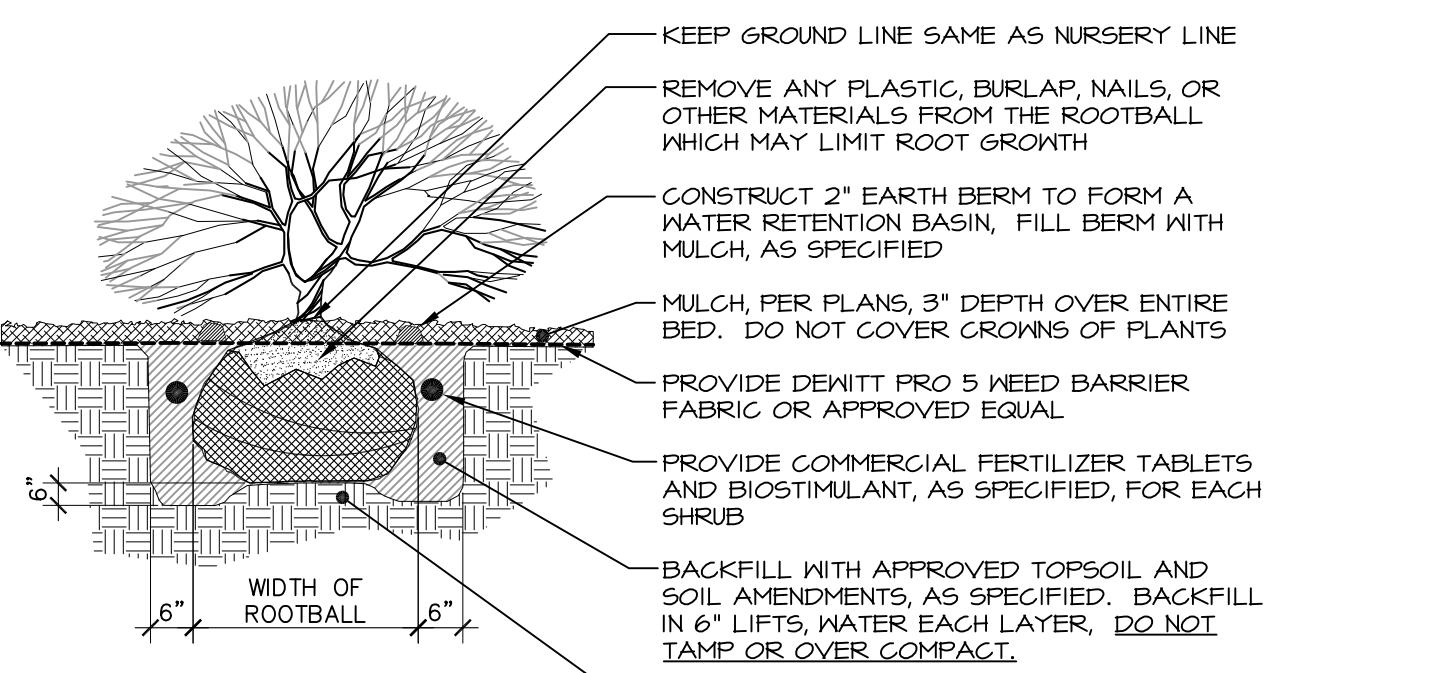
SHEET NAME:

## LANDSCAPE DETAILS

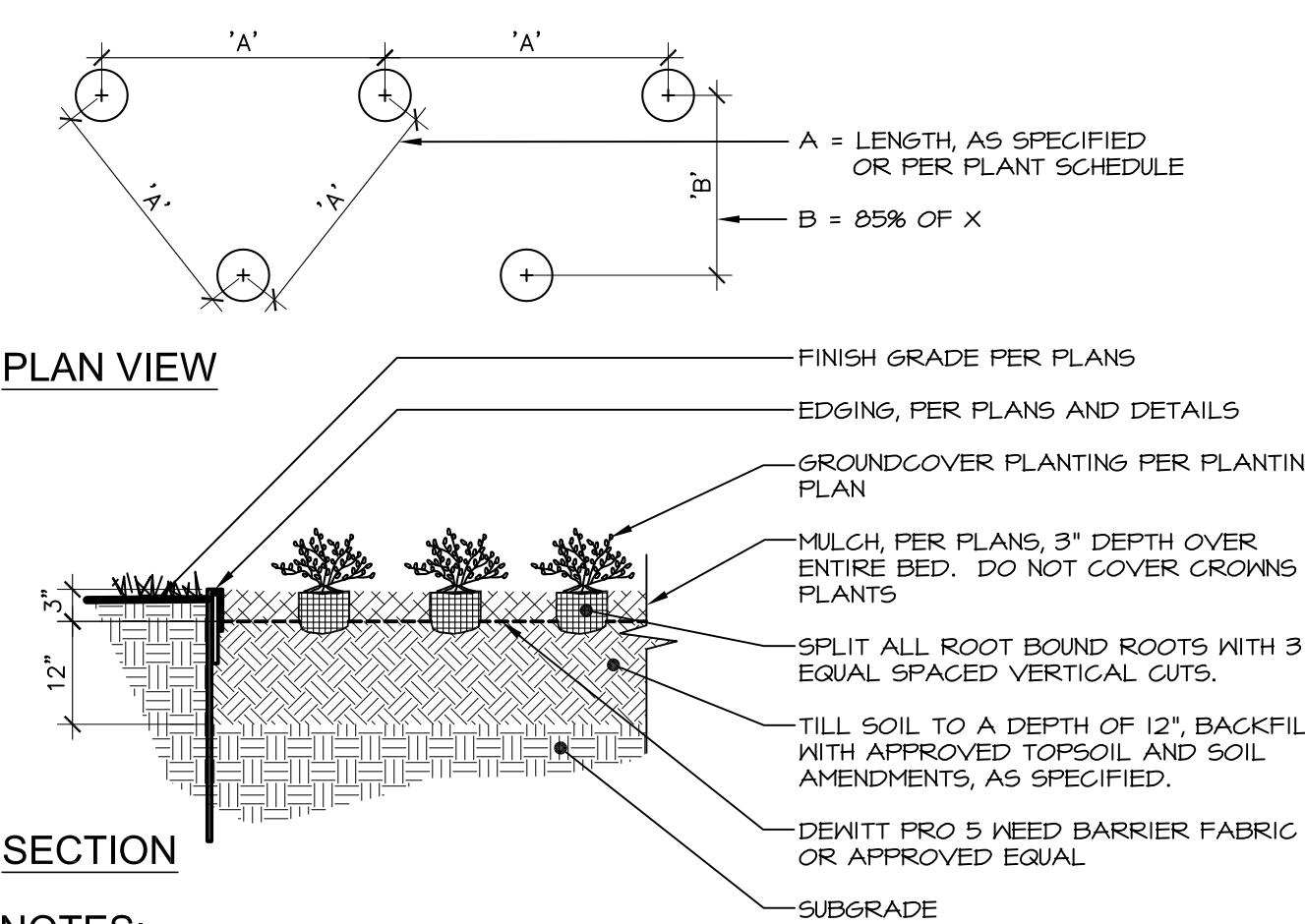
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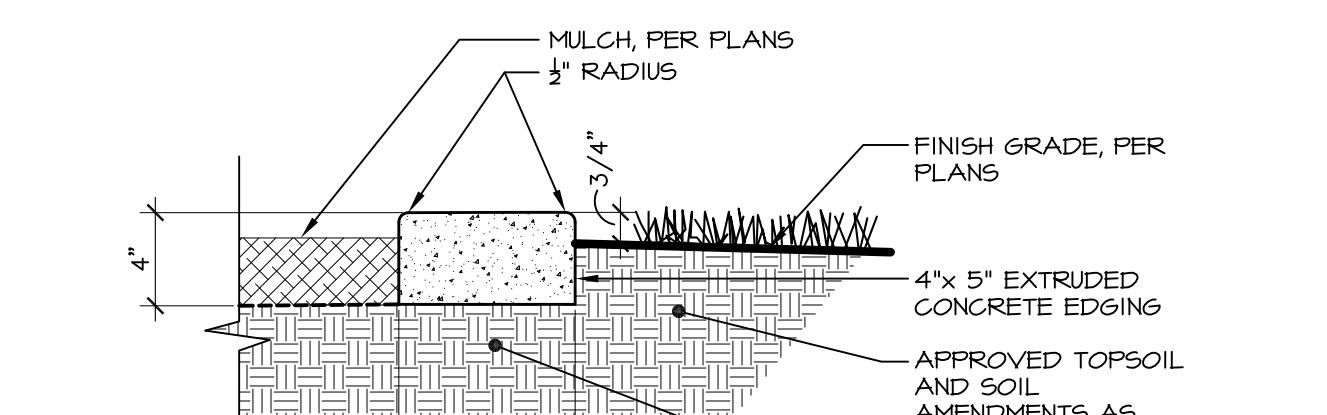
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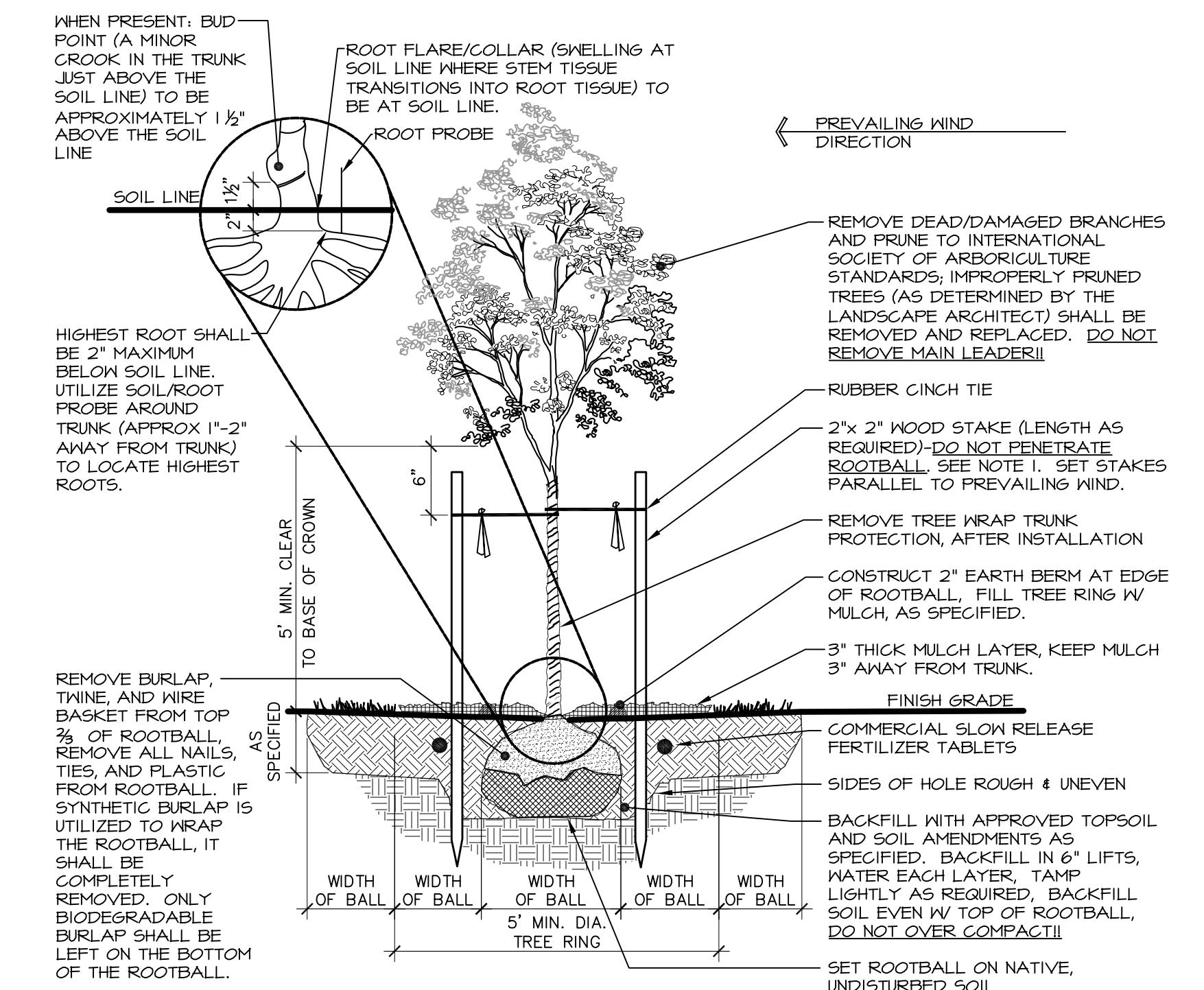
**1 SHRUB PLANTING**  
NOT TO SCALE



**2 PERENNIAL & GROUNDCOVER PLANTING**  
NOT TO SCALE



**3 EXTRUDED CONCRETE EDGING**  
NOT TO SCALE



**4 DECIDUOUS TREE PLANTING**  
NOT TO SCALE

## IRRIGATION NOTES

- SYSTEM DESIGN BASED ON THE ASSUMPTION OF THE AVAILABILITY OF 50 G.P.M. WITH 80 P.S.I. AT THE SOURCE AND 45 P.S.I. AT THE HEADS.
- ALL LATERAL LINES THAT ARE NOT LABELED SHALL BE 3/4" DIAMETER.
- CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO INITIATION OF ANY DEMOLITION OR CONSTRUCTION OPERATIONS. ANY DAMAGE TO EXISTING UTILITIES SHALL BE CONTRACTOR'S RESPONSIBILITY.
- COORDINATE ALL IRRIGATION INSTALLATION OPERATIONS WITH CIVIL, MECHANICAL, AND ELECTRICAL ENGINEERING SHEETS.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF IRRIGATION CONDUIT AND SLEEVES UNDER HARD SURFACES WITH RESPECTIVE CONTRACTORS.
- ALL SLEEVES SHALL BE INSTALLED AS PART OF IRRIGATION CONTRACT. APPROXIMATE LOCATION OF SLEEVES ARE SHOWN ON THE IRRIGATION PLAN. FIELD VERIFY LOCATION. ALL ENDS OF SLEEVES SHALL BE TAPE OR CAPPED AND MARKED WITH A 2" X 4" PAINTED STAKE EXTENDING TO 24" ABOVE GRADE. STAKES SHALL NOT BE REMOVED UNTIL THE IRRIGATION SYSTEM IS COMPLETED. PROVIDE COMPACTED BACKFILL AS REQUIRED ON BACK OF CURB OR EDGE OF PAVEMENT.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND FEES REQUIRED FOR THIS WORK.
- IRRIGATION CONTROLLER(S) ARE TO BE LOCATED AS SHOWN ON THE PLAN. CONTROLLERS SHALL BE WIRED TO POWER SUPPLY BY A LICENSED ELECTRICIAN PER LOCAL CODES. IRRIGATION CONTRACTOR TO PROVIDE ALL REQUIRED CONNECTIONS TO 24 VOLT IRRIGATION CONTROL WIRE INSIDE THE BUILDING THROUGH APPROPRIATE SIZED CONDUIT.
- ALL HEADS ARE TO BE 6" POP-UP IN LAWN AREAS AND 12" POP-UP IN SHRUB AND GROUND COVER AREAS. IRRIGATED AREAS CONTAINING PLANTATION AREAS MAY POTENTIALLY IMPEDE PERFORMANCE OF A 4" POP-UP SPRINKLER. AREAS TO BE REPLACED WITH 12" HIGH POWER SPRINKLERS.
- ALL ELECTRICAL WORK TO MEET OR EXCEED N.E.C., STATE CODES, LOCAL CODES, AND MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ROCK AND DEBRIS BROUGHT TO THE SURFACE AS A RESULT OF TRENCHING OPERATIONS.
- CONTRACTOR SHALL REFER TO SPECIFICATIONS AND DETAIL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- ALL 24 VOLT POWER WIRES SHALL BE #14 AWG COPPER. ALL ABOVE GROUND 120 VOLT AND 24 VOLT WIRE SHALL BE IN PVC COATED CONDUIT. SHREWDOWN SLEEVES SHALL BE USED FOR ALL CONDUIT. ALL COMMON WIRES SHALL BE #12 AWG COPPER. ALL 24 VOLT WIRES SHALL BE TIED TOGETHER AT TEN FOOT (10'-0") INTERVALS.
- INSTALLATION SHALL COMPLY WITH ALL NATIONAL, STATE, AND LOCAL LAWS AND ORDINANCES.
- IRRIGATION CONTRACTOR SHALL PROVIDE A COMPLETE AS-BUILT DRAWING IN PDF FORMAT UPON COMPLETION OF INSTALLATION AND PRIOR TO FINAL PAYMENT.
- THE ENTIRE SYSTEM SHALL BE GUARANTEED TO BE COMPLETE AND PERFECT IN EVERY DETAIL FOR A PERIOD OF TWO YEARS FROM THE DATE OF ITS ACCEPTANCE; REPAIR OR REPLACEMENT OF ANY DEFECTS OCCURRING WITHIN THOSE TWO YEARS SHALL BE THE RESPONSIBILITY OF THE OWNER.
- AS PART OF THIS CONTRACT, PERFORM AT NO EXTRA COST WINTERIZATION AND SPRING START UP OF THE SYSTEM DURING THE GUARANTEE PERIOD (2 YEARS).
- ALL MATERIALS SHALL BE NEW AND WITHOUT FLAWS OR DEFECTS OF THE QUALITY AND PERFORMANCE SPECIFIED, AND SHALL MEET THE REQUIREMENTS OF THIS SYSTEM. USE MATERIALS AS SPECIFIED, NO SUBSTITUTIONS SHALL BE PERMITTED WITHOUT PRIOR WRITTEN PERMISSION OF THE OWNER OR LANDSCAPE ARCHITECT.
- IRRIGATION CONTRACTOR SHALL MAKE NECESSARY MINOR FIELD ADJUSTMENTS TO SPRINKLER NOZZLES, SPRINKLERS, PIPE, AND OTHER IRRIGATION EQUIPMENT ADJUSTMENTS TO FIT THE AS-BUILT SITE. ADJUST HEAD AND PIPE LOCATIONS AS REQUIRED TO AVOID DAMAGING TREE ROOTS. ADJUSTMENTS SHALL ENSURE HEAD TO HEAD COVERAGE AND NOT OVERSPRAY THE BUILDING OR OTHER IMPROVEMENTS.
- IRRIGATION PIPING LAYOUT IS SCHEMATIC, WHERE LINES ARE SHOWN BELOW PAVEMENT ADJACENT TO LANDSCAPE AREAS, THEY SHALL BE LOCATED IN THE LANDSCAPE AREA UNLESS SHOWN WITH A SLEEVE SYMBOL.
- BASE PLAN AND LOCATION OF EXISTING EQUIPMENT ARE SCHEMATIC IN NATURE. FIELD VERIFY ALL BASE AND EXISTING IRRIGATION ELEMENTS AND CONDITIONS PRIOR TO CONSTRUCTION AND PROVIDE NECESSARY ADJUSTMENTS.
- IRRIGATION CONTRACTOR SHALL MAKE NECESSARY FIELD ADJUSTMENTS TO THE MAINLINE TO MATCH THE PUMP PRESSURE SPECIFIED TO ADJUST ZONE OPERATING PRESSURES TO AN AVERAGE OF 40 P.S.I. IN SPRAY ZONES AND 40 P.S.I. IN ROTOR ZONES.
- ALL MAIN LINE FITTINGS SHALL BE HARCO DUCTILE IRON PUSH ON TYPE UNLESS NOTED FOR LATERTAL SERVICE. (ON 3" OR LARGER ONLY).
- IN THE EVENT OF A DISCREPANCY, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT.

## DRIP IRRIGATION NOTES

- ALL PLANTER BEDS SHALL BE IRRIGATED WITH AN INLINE EMMITTER DRIP LINE IRRIGATION SYSTEM. NETAFIM RN' OR APPROVED EQUAL. ALL TREES IN THE NOTED AREA ARE TO BE IRRIGATED AS PER DETAIL. THE CONTRACTOR IS RESPONSIBLE TO INSTALL THE DRIP SYSTEM AS PER MANUFACTURER'S RECOMMENDATIONS AND THE FOLLOWING REQUIREMENTS:
  - AN INLINE EMMITTER DRIP LINE TUBING SHALL BE USED. THE EMMITTER SPACING SHALL BE EIGHTEEN INCHES (18") AND THE EMISSION FLOW IS TO BE 4 G.P.H. LATERSALS SHALL BE SPACED AT EIGHTEEN INCHES (21").
  - A NETAFIM TECHFILTER® WITH A TRIFURCALIN DISC RING SHALL BE INSTALLED ON EACH ZONE. THE FILTER SHALL BE INSTALLED IN CONJUNCTION WITH AN ELECTRIC REMOTE CONTROL VALVE AS SPECIFIED (SIZE AS NOTED ON SCHEDULE). THE FILTER MODEL SHALL BE A 1" 120 MESH DISC FILTER (TF0418-100CRN). SEE DETAIL.
  - ALL ZONES SHALL BE INSTALLED WITH A LINE FLUSHING VALVE. INSTALL WITH COLLAR. SEE DETAIL.
  - ALL ZONES SHALL HAVE AN AIR/VACUUM RELIEF VALVE. SEE DETAIL. THESE SHALL BE INSTALLED AT THE HIGHEST POINTS WITHIN THE ZONES.
  - ALL TUBING SHALL BE STAKED DOWN WITH TL56 SIX INCH (6") SOIL STAPLES TO PREVENT EXPOSURE OF PIPE THROUGH MULCH. SEE DETAIL.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL THE DRIP SYSTEM SO THAT THE OPTIMUM AMOUNT OF WATER IS APPLIED TO ENSURE THE HEALTH OF ALL PLANT MATERIAL. EXTRA EMMITTERS ARE TO BE INSTALLED AT ALL TREES PLANTED WITHIN THE PLANTER BEDS TO ENSURE PROPER WATERING IF NECESSARY.
- THE CONTRACTOR IS RESPONSIBLE TO SCHEDULE A MEETING WITH THE LANDSCAPE ARCHITECT AND THE OWNER'S REPRESENTATIVE BEFORE PROVISIONING WITH ANY IRRIGATION INSTALLATION IN ORDER TO REVIEW WORK TO BE DONE. NO CHANGES IN MATERIAL SPECIFIED OR TO THE DESIGN OF THE SYSTEM SHALL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT.
- ALL 1/2" LATERSAL LINES FROM VALVES TO HEADERS ARE TO BE BURIED AT MINIMUM DEPTH OF TWELVE INCHES (12"). SIZE AS NECESSARY. (SEE PIPE SIZING NOTES ON THIS SHEET).
- After installation of the irrigation system the contractor is responsible to provide the owner with as-built drawings and instructions for maintenance of the drip system.
- Provide drip line to ensure each shrub and tree receives adequate irrigation. bury drip line at 4" min. to hide from view. see sub-grade installation detail.
- POINT SOURCE CONFIGURATION OF DRIP LAYER LAYOUT INSTALLATION TYPES WILL NOT BE ACCEPTED. INSTALL DRIP LINE IN LATERSAL AREA. PER 100 FT. PER TALLER DETAILS. ADJUST DRIP LINE LOCATION TO OBTAIN COMPLETE COVERAGE OF DRIP ZONE AREAS AT SPECIFIED SPACING AS NOTED ABOVE.
- REFER TO NOTES FOR SPECIFICATIONS.

## SYSTEM OPERATIONAL NOTES

### SYSTEM OPERATION:

(based on historical climate)

### CONTROLLER SETUP:

A cycling technique will be used for application of water. Each station run time will be applied with three (3) different start times. Therefore, station run times reflect one third (1/3) the total application. Peak water application will require 5 minutes per night. Set controllers for start time #1 at 7:30p.m., start time #2 at 12:00am, and start time #3 at 5:30am. Extend water window if required to meet peak water requirements.

### INITIAL STATION RUN TIMES:

DRIP ZONES, SHRUBS - 20 MINUTE CYCLES,  
PRO SPRAY ZONES, TURF - 3 MINUTE CYCLES,  
ROTOR SPRAY ZONES, TURF - 15 MINUTE CYCLES.

### SYSTEM BALANCING:

As the system operates, some zones will be wet while others are dry. Adjust only those stations which require additional or less water. For example, if station T51, a 15" turf spray zone is always dry, change the station T51 run time from fifteen (15) minutes to sixteen (16) minutes. Continue making adjustments until the zone moisture content is acceptable. Use nozzle changes or nozzle screw adjustments to adjust wet and dry areas within a zone.

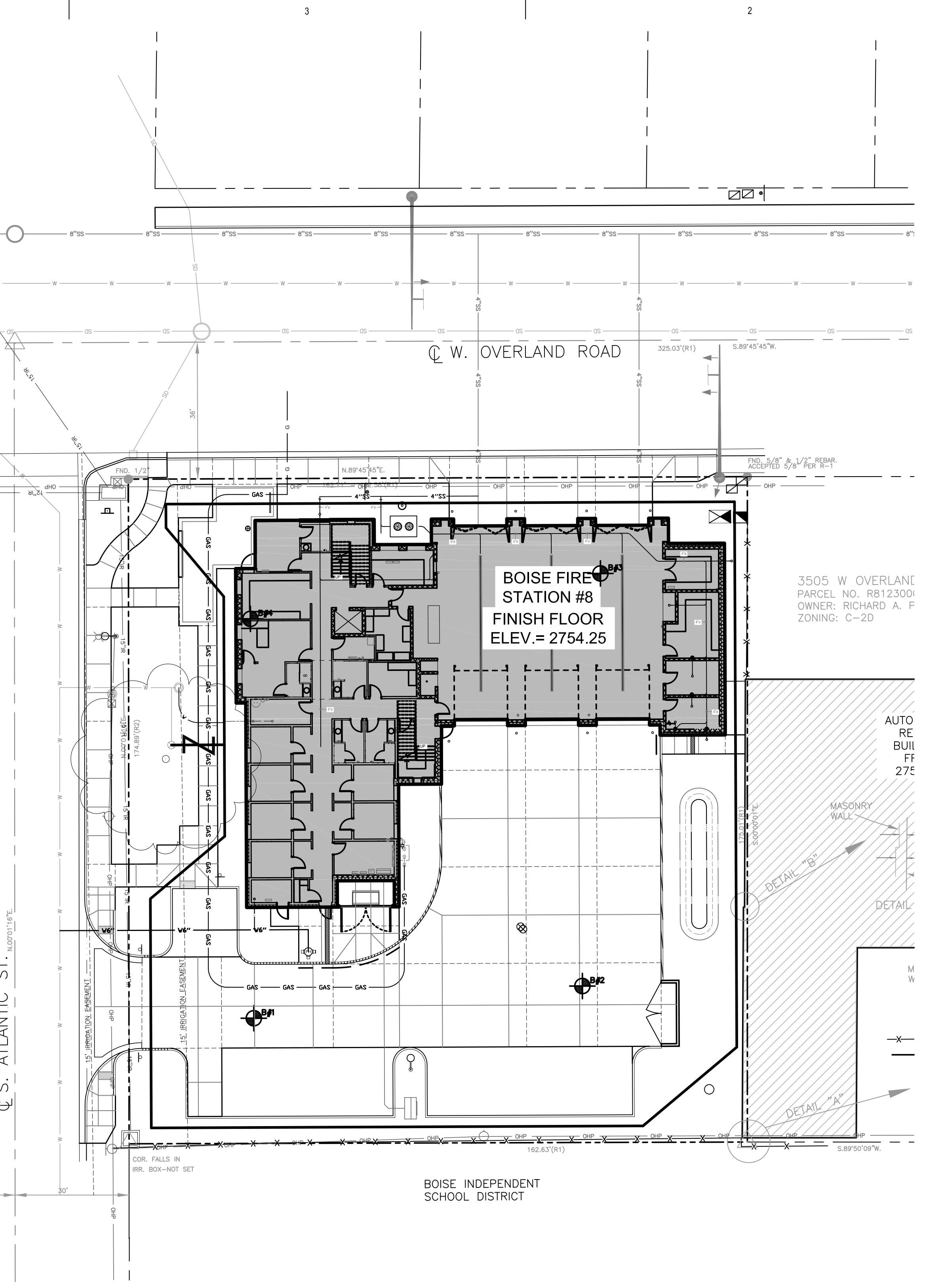
## PRESSURE IRRIGATION SYSTEM

### NON-POTABLE WATER NOTES

- ALL VALVE BOXES, QUICK COUPLER VALVES, SPRINKLER HEAD COVERS, AND AUTOMATIC CONTROL VALVES SHALL BE PURPLE TINTED IDENTIFICATION MATERIAL, MARKED WITH "DO NOT DRINK" WARNING.
- INSTALL FINDER TAPE OVER ALL IRRIGATION MAINS. TAPE SHALL BE 2" WIDE, METALLIC PURPLE IN COLOR, WITH THE WORDS "DANGER - UNSAFE WATER" OR "NON-POTABLE WATER" CLEARLY MARKED ALONG THE LENGTH OF THE TAPE. TAPE SHALL BE PLACED BETWEEN SIX INCHES (6") AND EIGHTEEN INCHES (18") BELOW THE SURFACE, DIRECTLY ABOVE THE TOP OF THE PIPE.
- THE HORIZONTAL SEPARATION OF POTABLE WATER MAINS AND NON-POTABLE WATER MAINS (SANITARY SEWER, STORM DRAIN, AND IRRIGATION) SHALL BE A MINIMUM OF TEN (10') FEET, WHERE IT IS NECESSARY FOR A POTABLE WATER MAIN AND NON-POTABLE WATER MAIN TO CROSS WITH LESS THAN EIGHTEEN (18") INCHES OF VERTICAL SEPARATION, THE CROSSING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 542.07 OF THE IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 58.01.08) AND SECTION 430.02 OF THE WASTEWATER RULES (IDAPA 58.01.16).
- THE HORIZONTAL SEPARATION OF NON-POTABLE SERVICES OR POTABLE WATER SERVICES OR POTABLE WATER MAINS SHALL BE A MINIMUM OF SIX (6) FEET, WHERE IT IS NECESSARY FOR A POTABLE WATER MAIN AND NON-POTABLE WATER MAIN TO CROSS WITH LESS THAN EIGHTEEN (18") INCHES OF VERTICAL SEPARATION, THE CROSSING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 542.07 OF THE IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 58.01.08) AND SECTION 430.02 OF THE WASTEWATER RULES (IDAPA 58.01.16).
- REFER TO CIVIL PLANS FOR ADDITIONAL INFORMATION.

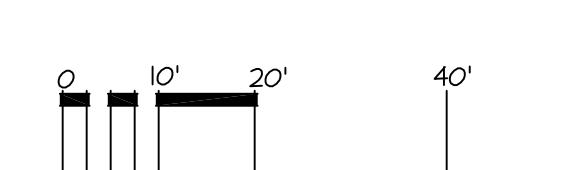
## CAUTION NOTICE

The contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these plans is based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor must call the local utility location center at least 48 hours before any excavation to request exact field locations of the utilities. It shall be the responsibility of the contractor to relocate all existing utilities which conflict with the proposed improvements shown on the plans.



## IRRIGATION PLAN

SCALE: 1" = 20'-0"



## ZONE SCHEDULE

| ZONE # | GPM   | PSI | VALVE SIZE |
|--------|-------|-----|------------|
| D 1    | 17.21 | 30  | 1" 1/2"    |
| D 2    | 15.17 | 30  | 1" 1/2"    |
| D 3    | 14.94 | 30  | 1" HF      |
| D 4    | 9.87  | 30  | 1" HF      |
| D 5    | 8.07  | 30  | 1" HF      |
| D 6    | 11.9  | 30  | 1" LF      |
| D 7    | 5.98  | 30  | 1" HF      |
| D 8    | 8.83  | 30  | 1" HF      |
| D 9    | 1.01  | 30  | 1" HF      |
| D 10   | 1.00  | 30  | 1" HF      |
| D 11   | 10.12 | 30  | 1" HF      |
| D 12   | 11.06 | 30  | 1" 1/2"    |
| D 13   | 10.04 | 30  | 1" HF      |
| D 14   | 13.61 | 30  | 1" 1/2"    |
| D 15   | 13.01 | 30  | 1" 1/2"    |
| D 16   | 4.65  | 30  | 1" HF      |
| D 17   | 9.04  | 30  | 1" HF      |
| D 18   | 15.78 | 30  | 1" 1/2"    |

## IRRIGATION MATERIAL LEGEND

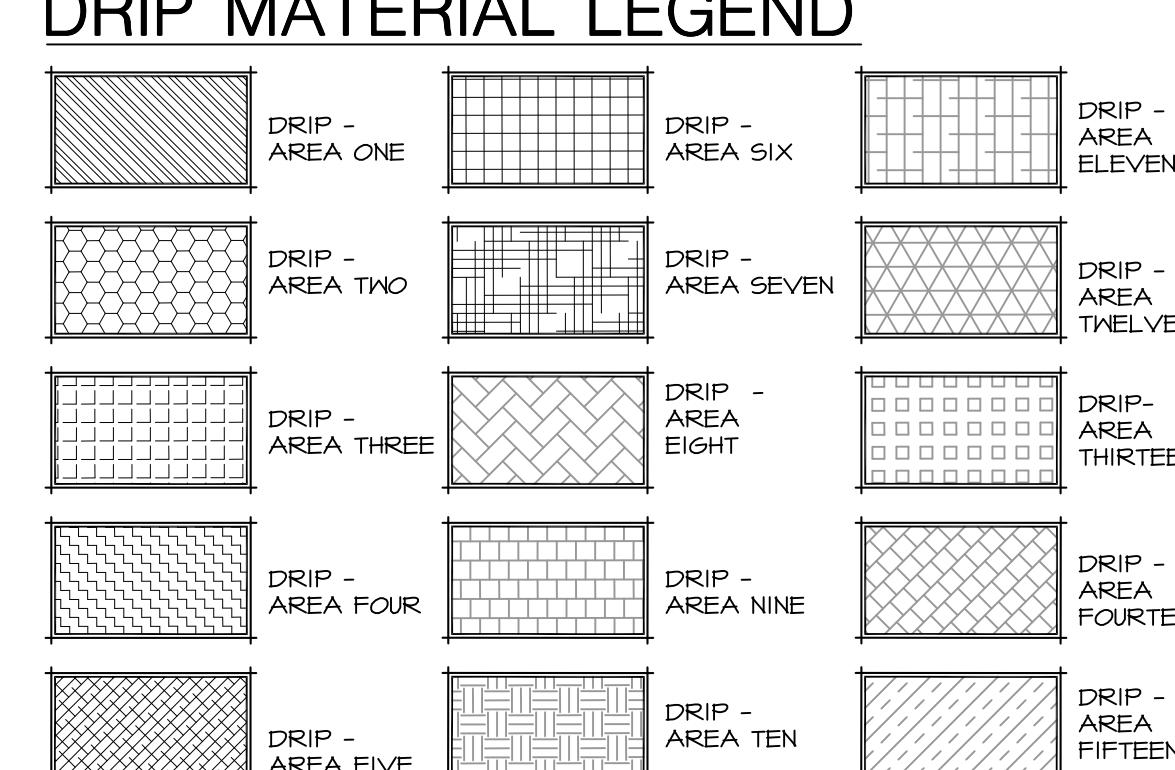
| SYMBOL   | DESCRIPTION   |
|----------|---|
| 05 10 20 | NETAFIM POINT SOURCE SELF PIERCING EMMITTERS WITH CHECK VALVE MODEL NUMBERS SPCV05, SPCV10, AND SPCV20 PER PLANS.   |
| TS3      | NETAFIM LVLCZ-150 AND LVZC500100T5 ELECTRIC REMOTE CONTROL VALVE.   |
| 1/4"     | SCHEDULE 40 SOLVENT WELD PVC LATERAL LINE, SIZE AS INDICATED ON PLANS. PROVIDE ONE (1) KING DRAIN AUTOMATIC DRAIN VALVE AT LOW POINT OF EACH LATERAL ZONE.  |
| 6" SLV   | 1/2" SCHEDULE 40 SOLVENT WELD PVC MAIN LINE. EXISTING 4" SLEEVE TO BE UTILIZED BY LIGHTING AND IRRIGATION. 4X AT EACH LOCATION (USE ADDITIONAL SLEEVE AT MAIN LINE SLEEVE LOCATIONS FOR CONTROL WIRES). |
| 1/2"     | GRAY SCHEDULE 40 PVC FOR ELECTRICAL CONTROL WIRES, SIZE AS INDICATED ON PLANS. COORDINATE WITH ELECTRICAL.  |
| ⊕        | WILKINS GATE VALVE OR APPROVED EQUAL, SIZE TO MATCH MAIN LINE, SEE DETAIL.  |
| ⊗        | NETAFIM HYDROMETER / MASTER VALVE MODEL # LHM15GO053-MEL-NO   |
| ⊖        | 1" HUNTER HG-5LRG QUICK COUPLING VALVE W/ HK-55 KEY, AND HOSE SWIVEL, SEE DETAIL.   |
| ◇        | NIBCO MANUAL DRAIN VALVE SIZE TO MATCH MAINLINE, SEE DETAIL.  |
| ●        | CRISPIN AIR RELEASE VALVE AS SPECIFIED, SEE DETAIL.   |
| Z        | REDUCED PRESSURE BACK FLOW PREVENTOR, SIZE TO MATCH MAINLINE, SEE DETAIL.   |
| ■        | NETAFIM NLC-100 SITE CONTROLLER WITH PEDESTAL ENCLOSURE, MODEL #NLCSP-025-C12-N-NO-Y, SEE DETAIL.   |
| ℳ        | NETAFIM WEATHER STATION AND RECEIVER, MODEL #'S NLS700KX AND NLC700RX, INSTALL PER MANUFACTURER'S RECOMMENDATIONS.  |

## CALLOUT LEGEND

- CONNECT NEW 1 1/2" MAINLINE TO 1" METER STUB PROVIDED BY OTHERS IN THIS APPROXIMATE LOCATION. (FIELD VERIFY)
- 2" WIRE SLEEVE, ROUTE TO CONTROLLER LOCATION PER LOCAL CODES AS REQUIRED.
- PEDESTAL MOUNT IRRIGATION CONTROLLER IN THIS APPROXIMATE LOCATION AS REQUIRED. CONNECT 120 VOLT AS REQUIRED. ALL ABOVE GROUND WIRES SHALL BE LOCATED IN APPROPRIATE SIZED CONDUIT (2" MINIMUM). IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH CERTIFIED ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL CONNECTIONS. IRRIGATION CONTRACTOR SHALL ENSURE ALL CONTROLLER OPTIONS AND ZONES ARE FULLY OPERATIONAL AFTER TRENCHING HAS FINISHED. CONTROLLER LOCATION TO BE OWNER APPROVED.
- EXTEND EXTRA WIRES TO THIS POINT, COIL APPROXIMATELY 24" LENGTH OF EXTRA WIRES IN SEPARATE VALVE BOX AT THIS LOCATION.
- INSTALL 'NETAFIM' PRESSURE INDICATOR STAKE AT END OF DRIPZONE LINE TO ENSURE PROPER FUNCTIONALITY.
- CAP MAINLINE IN THIS APPROXIMATE AREA, ENSURE A WATER TIGHT FITTING.
- CONNECT CONTROLLER POWER TO EXISTING JUNCTION BOX PROVIDED BY IDAHO POWER IN THIS APPROXIMATE LOCATION. COORDINATE AS REQUIRED. ROUTE POWER LINE ALONG BACK OF SIDEWALK.
- ROUTE POLYETHYLENE LATERAL LINE ALONG BACK OF SIDEWALK AS SHOWN PER PLANS, PROVIDE SCHEDULE 40 SLEEVING AT DRIVEWAY LOCATIONS AS SHOWN.
- CONNECT ALL POINT SOURCE EMMITTERS IN THIS AREA TO DRIP ZONE D18. REFER TO LANDSCAPE PLANS FOR SHRUB LOCATIONS.

INSTALL DRIP ZONE ON SLOPE AS SHOWN. START AT TOP OF BANK. REFER TO GRADING PLANS FOR ADDITIONAL INFORMATION.

## DRIP MATERIAL LEGEND



**811.**  
Know Where Below. Call Before You Dig.

**COLE ARCHITECTS**  
COLE ARCHITECTS | 208 W. BANNOCK SUITE 208  
Boise, ID 83702 | (208) 345-1800

**TCA**  
architecture • planning  
TCA | 811 Roosevelt Way NE  
Seattle, WA 98115 | (208) 522-3820

**NOT FOR CONSTRUCTION**  
CONSULTANT:  
BRECKON land design  
• Landscape Architecture  
• Erosion & Sediment Control  
• Geographic Info Systems  
• Graphic Communication  
• Water Management  
• Irrigation Design  
• Land Planning  
www.breckonlanddesign.com  
Fax: 208-376-6528  
Phone: 208-376-5153  
181 East 50th Street  
Garden City, Idaho 83714

**PROJECT INFORMATION:**

**BOISE CITY OF TREES**  
BOISE FIRE  
FEB. 1919  
DEDICATION

**City of Boise Fire Station 8**  
3575 W. Overland Rd. Boise, ID 83705

**REVISIONS:**

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

**PROJECT PHASE** Project Status

**PROJECT NUMBER** 15045

**PROJECT MANAGER** R. TeBeau

**PROJECT ARCHITECT** R. TeBeau

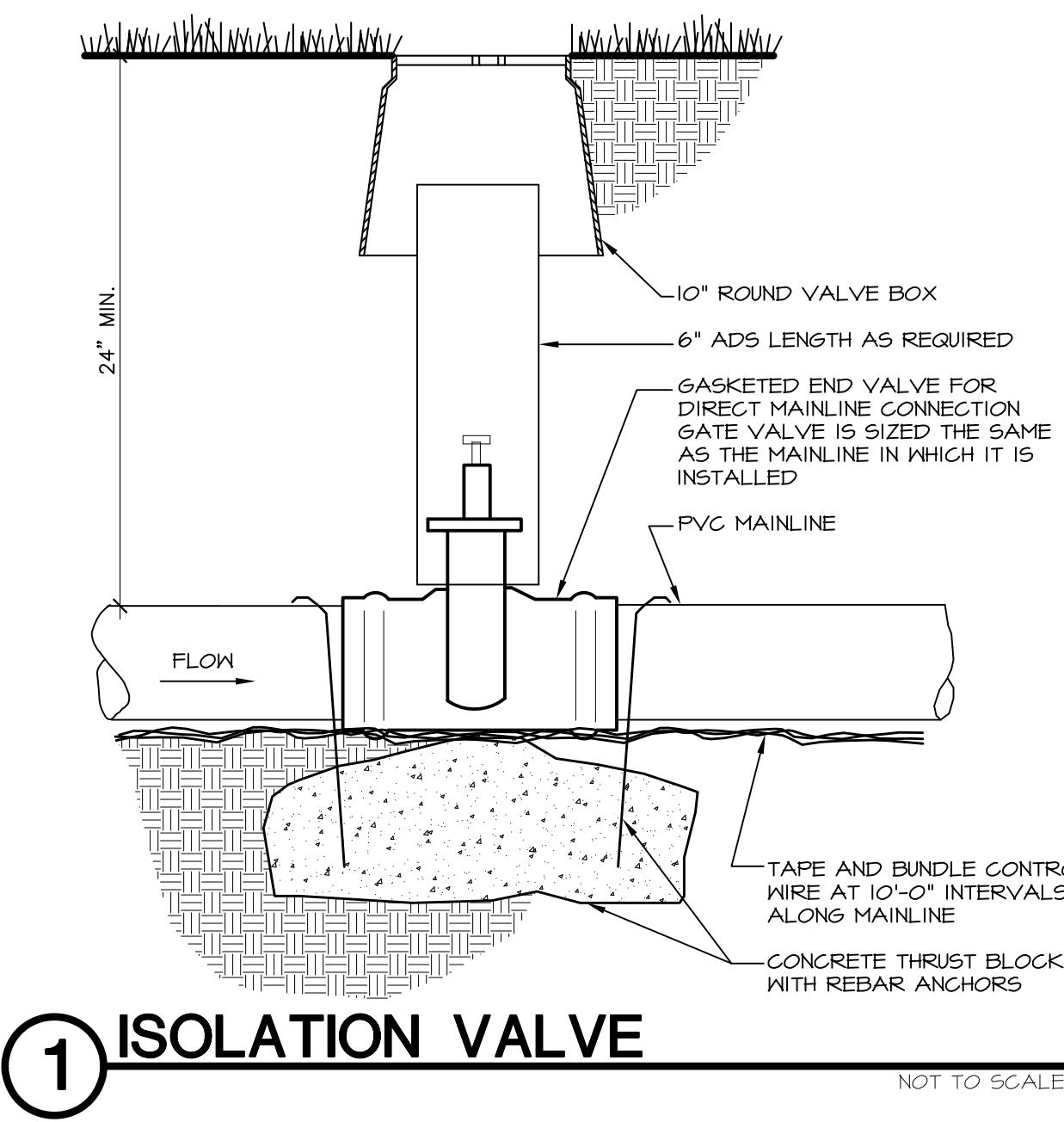
**DESIGN** JB

**DRAWN BY** BS, LP, TC

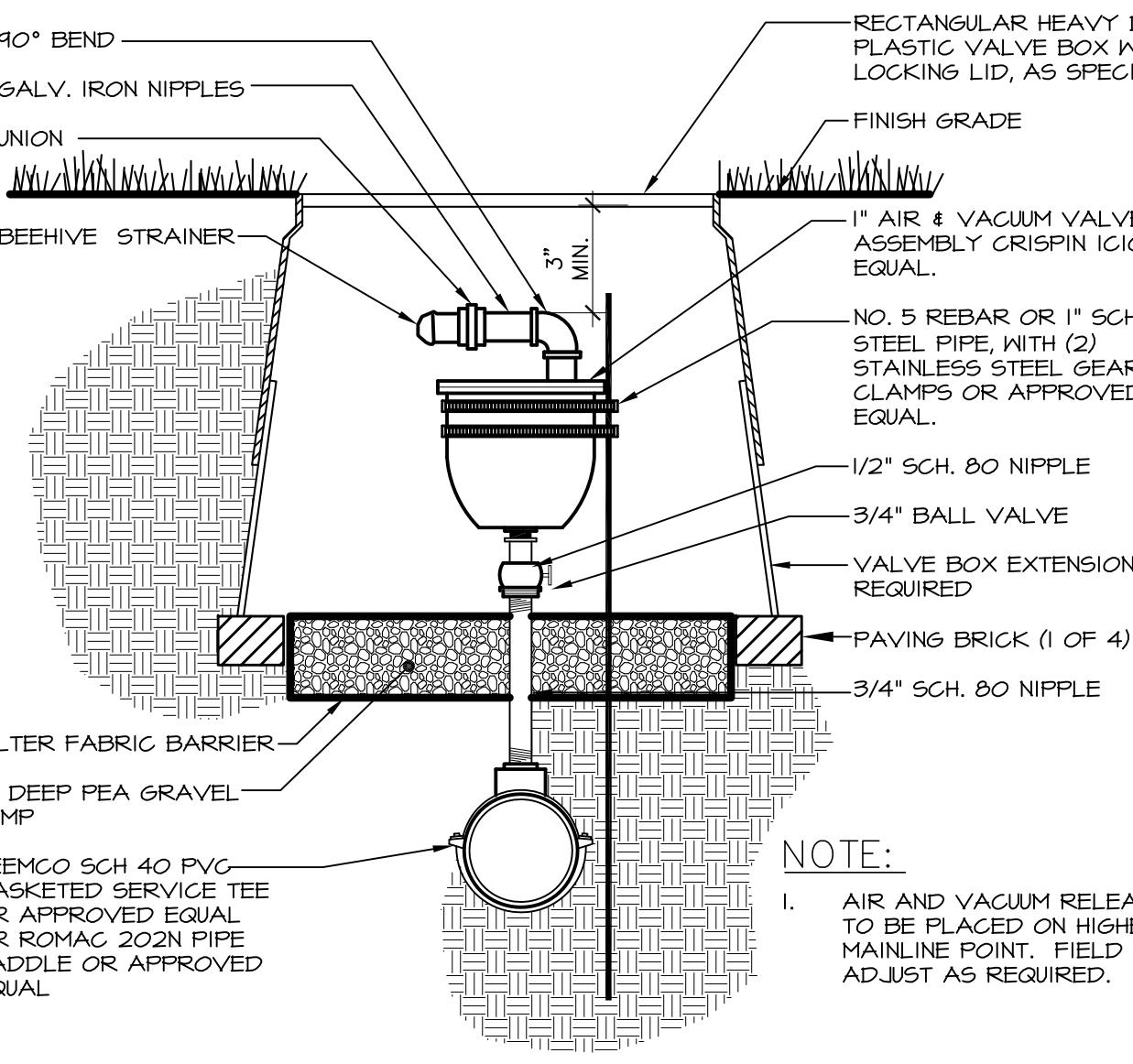
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**SHEET NUMBER:**

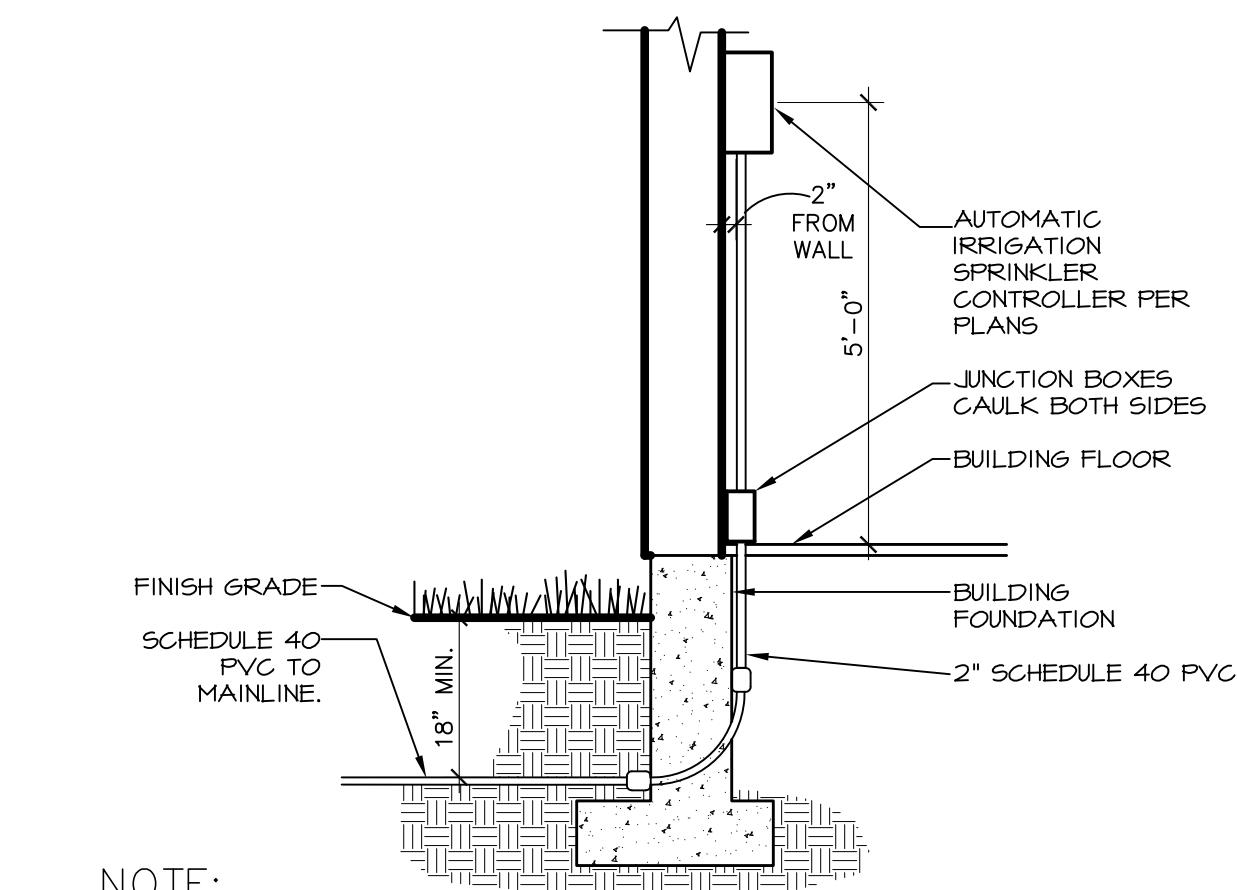
**L1.80**



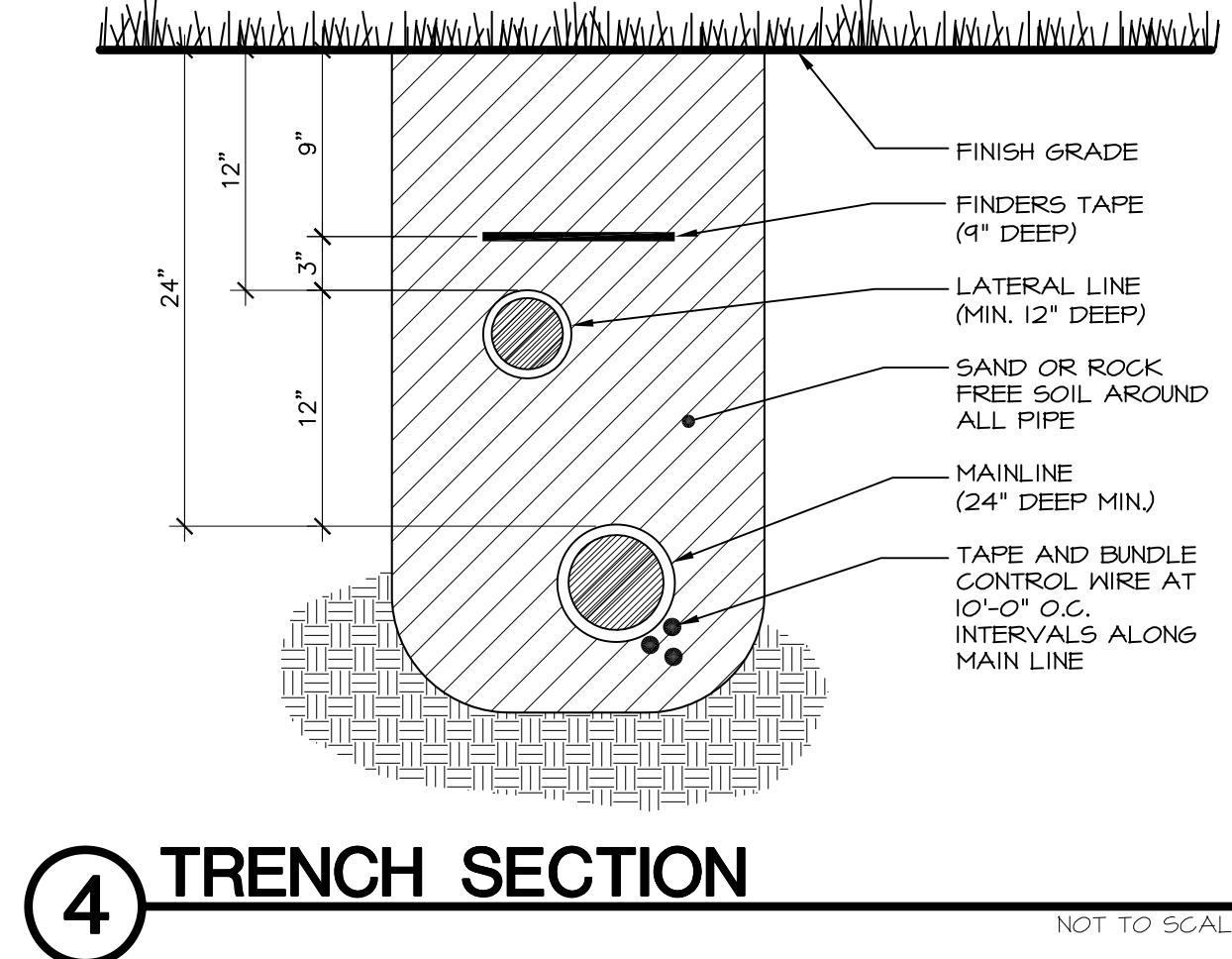
### 1 ISOLATION VALVE



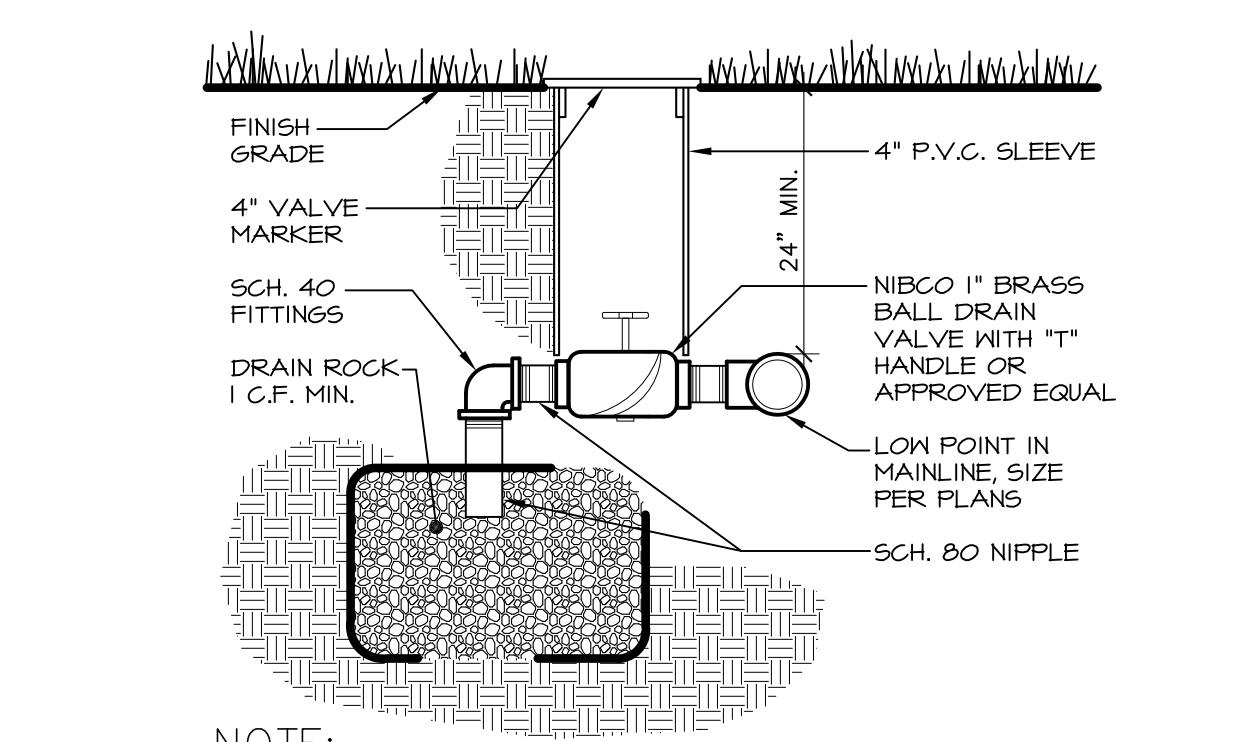
### 2 AIR RELIEF VALVE



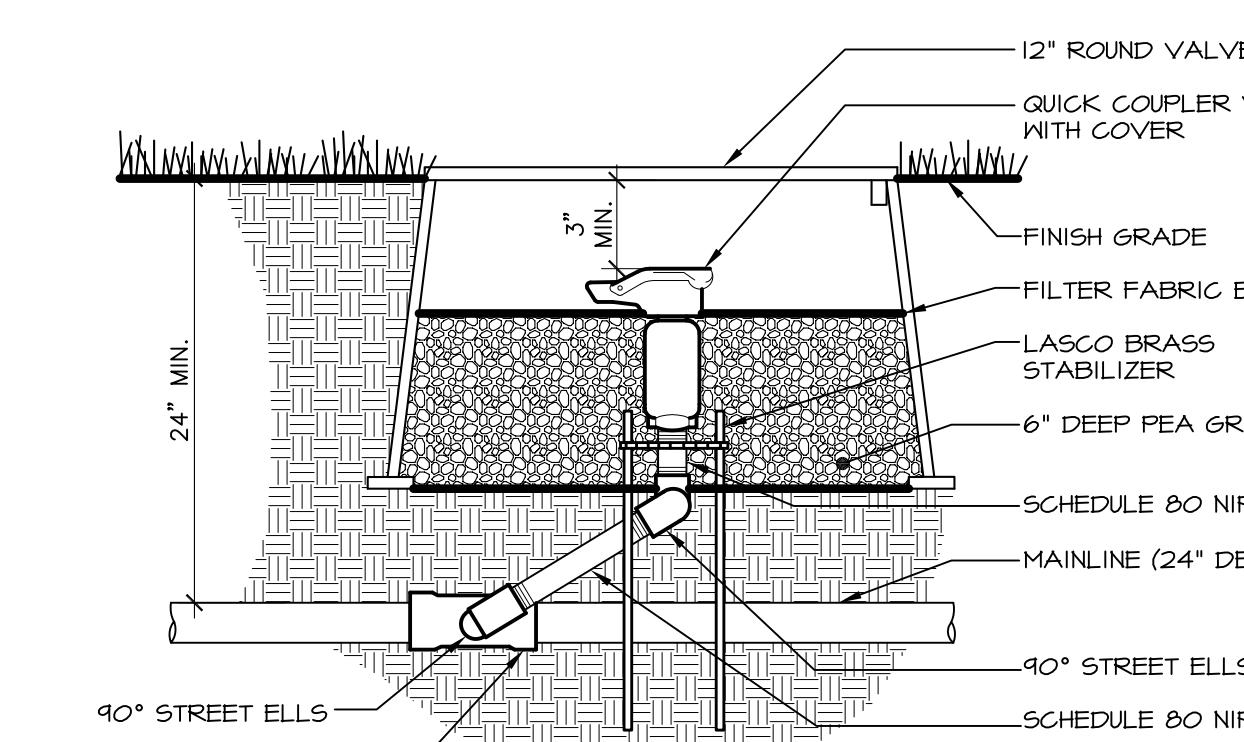
### 3 AUTOMATIC IRRIGATION CONTROLLER



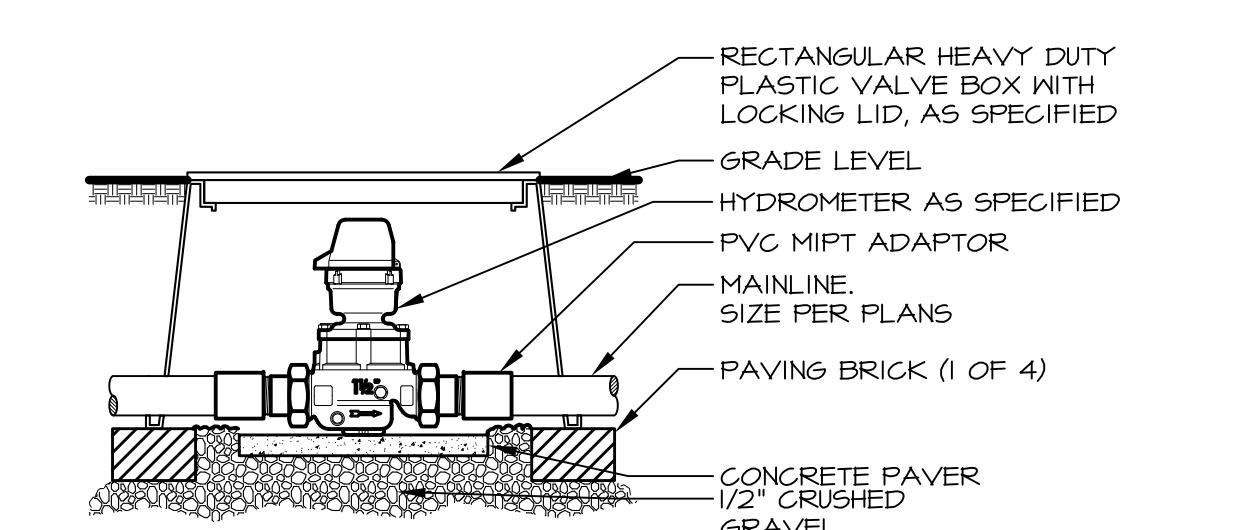
### 4 TRENCH SECTION



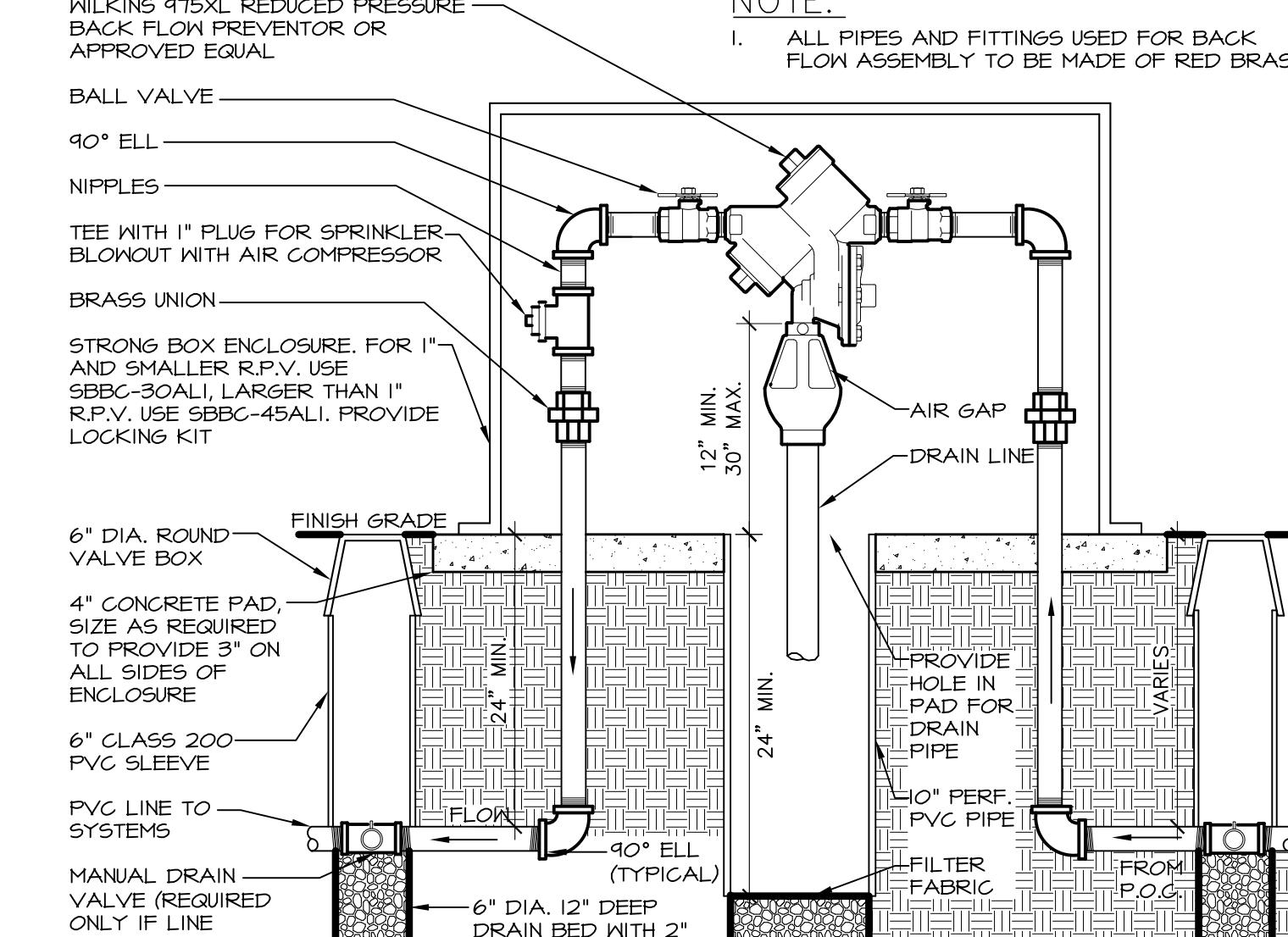
### 5 MANUAL DRAIN VALVE



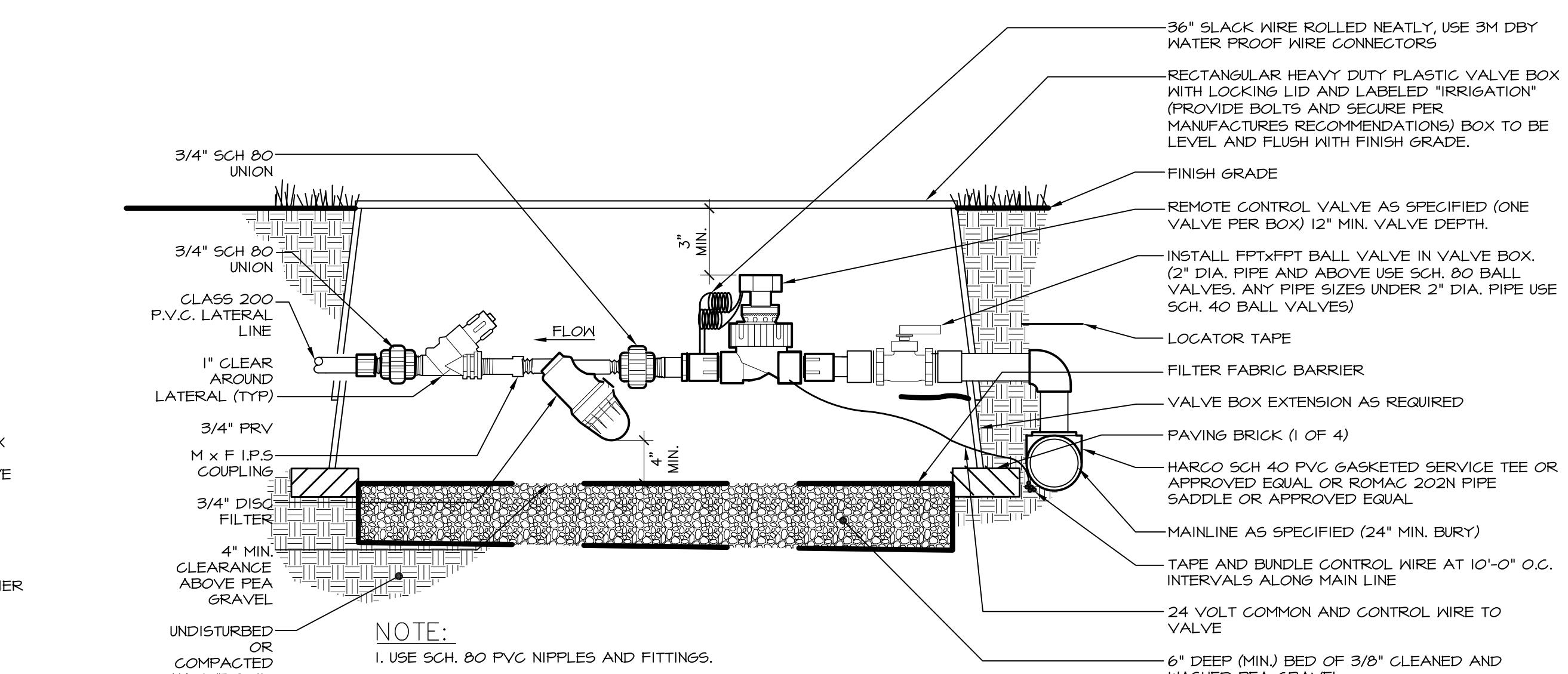
### 6 QUICK COUPLER VALVE



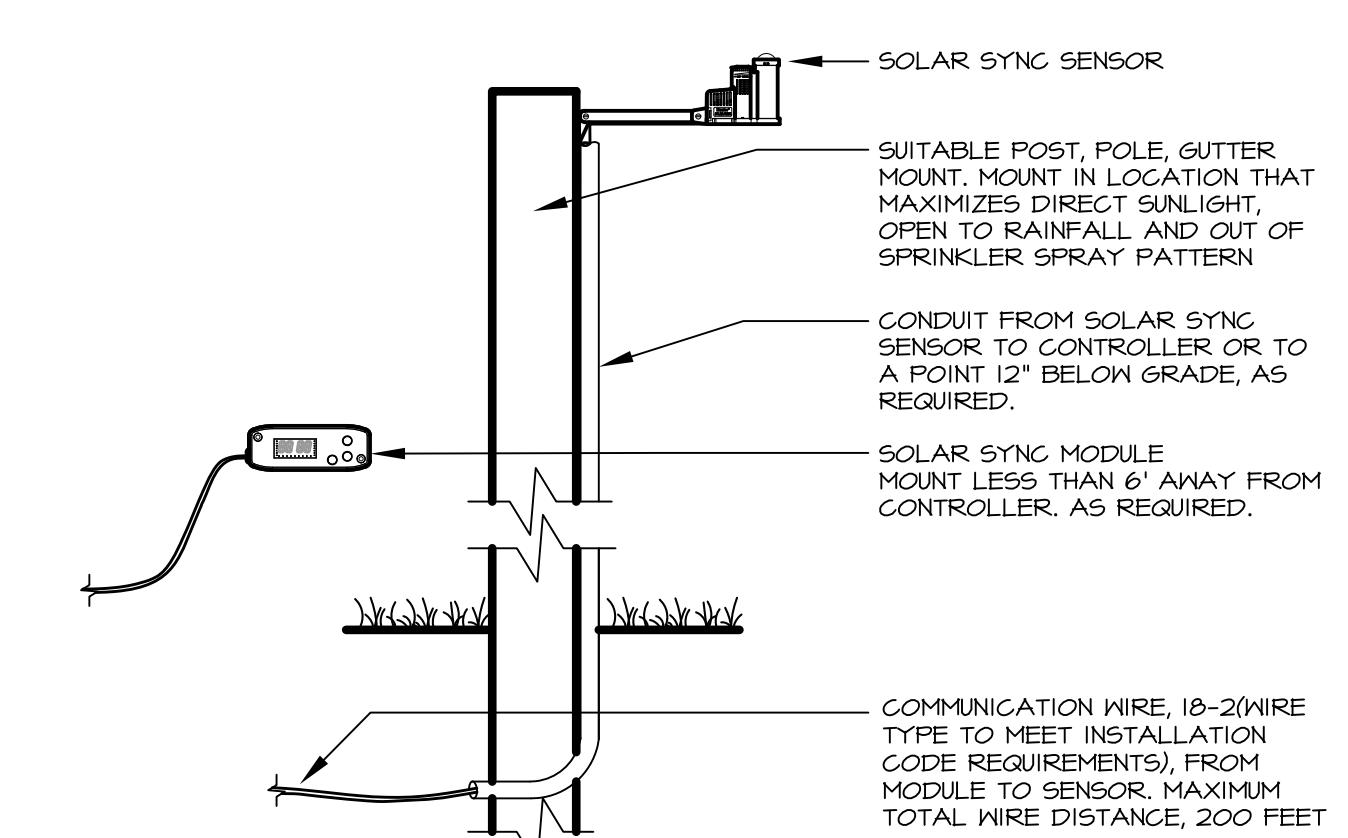
### 7 MASTER VALVE



### 3 REDUCED PRESSURE BACK FLOW PREVENTER



### 9 REMOTE CONTROL VALVE WITH 3/4" FILTER



### 6 SOLAR SYNC INSTALLATION

**811**  
Know where below.  
Call before you dig  
Call 2 business days  
in advance before  
you dig to have  
excavate for the  
location of  
underground  
member utilities

**COLE ARCHITECTS**  
COLE ARCHITECTS | 802 W. BANNOCK SUITE 208  
Boise, ID 83702 | (208) 345-1800

**TCA**  
architecture • planning

TCA | 811 Roosevelt Way NE  
Seattle, WA 98115 | (208) 522-3820

STAMP:

NOT FOR CONSTRUCTION  
STATE OF IDAHO  
LANDSCAPE ARCHITECTURE

CONSULTANT:

**BRECKON** land design  
• Landscape Architecture www.breckonlanddesign.com  
• Erosion & Sediment Control Fax: 208-376-6528  
• Geographic Info Systems Phone: 208-376-5153  
• Graphic Communication 181 East 50th Street  
• Water Management Garden City, Idaho 83714  
• Irrigation Design  
• Land Planning



**BOISE FIRE**  
EST. 1878  
DEDICATION

**City of Boise Fire Station 8**  
3575 W. Overland Rd. Boise, ID 83705

PROJECT INFORMATION:

REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|------|------|-------------|

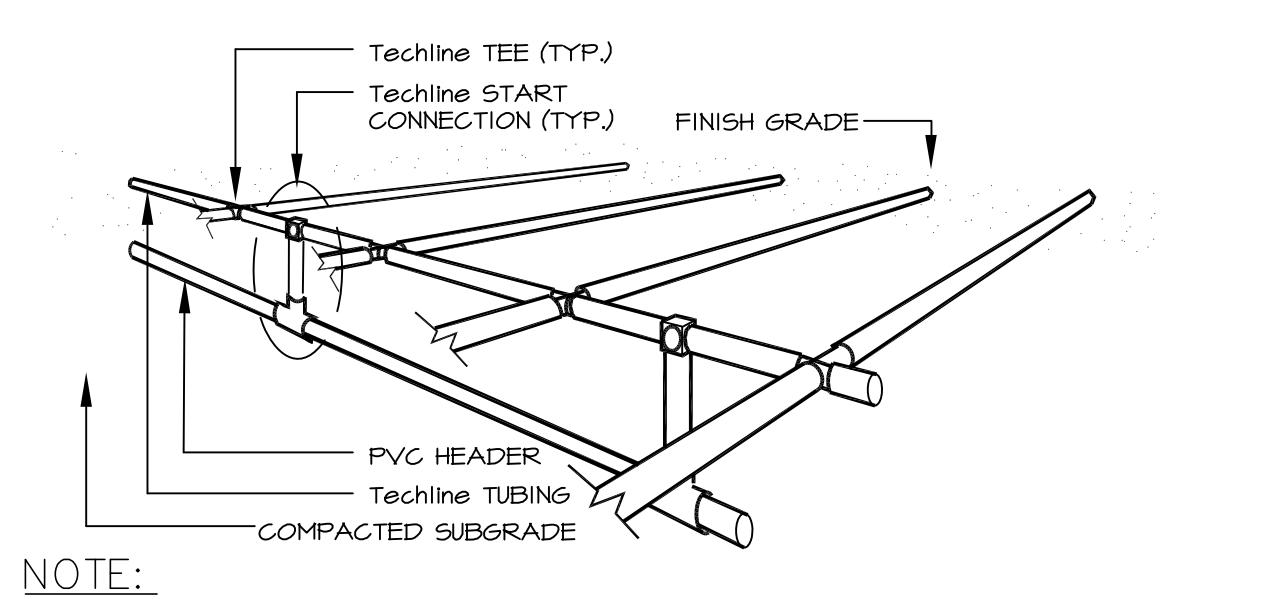
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|-------------------|----------------|
| PROJECT NUMBER    | 15045          |
| PROJECT MANAGER   | R. TeBeau      |
| PROJECT ARCHITECT | R. TeBeau      |
| DESIGN            | JB             |
| DRAWN BY          | BS, LP, TC     |

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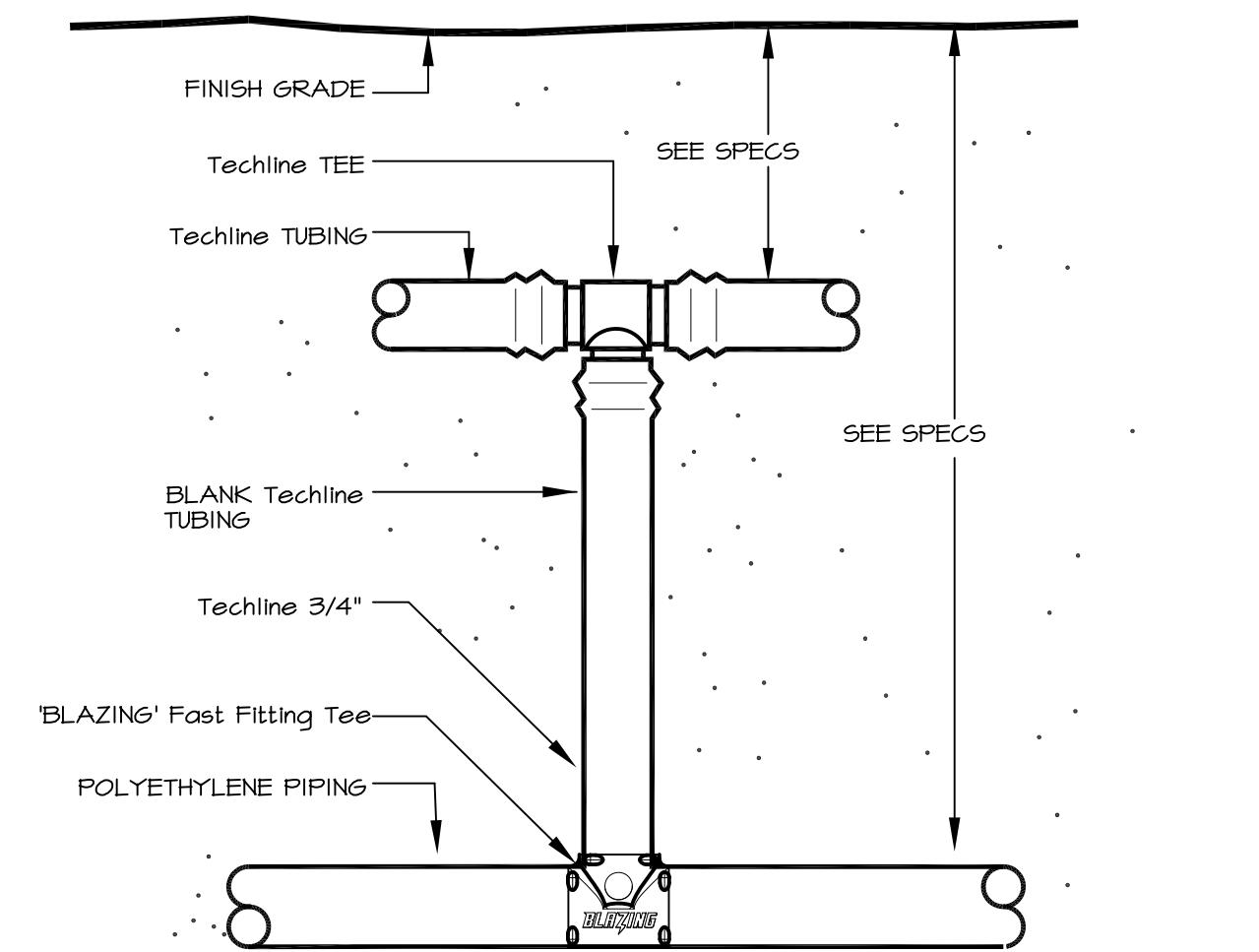
**IRRIGATION DETAILS**

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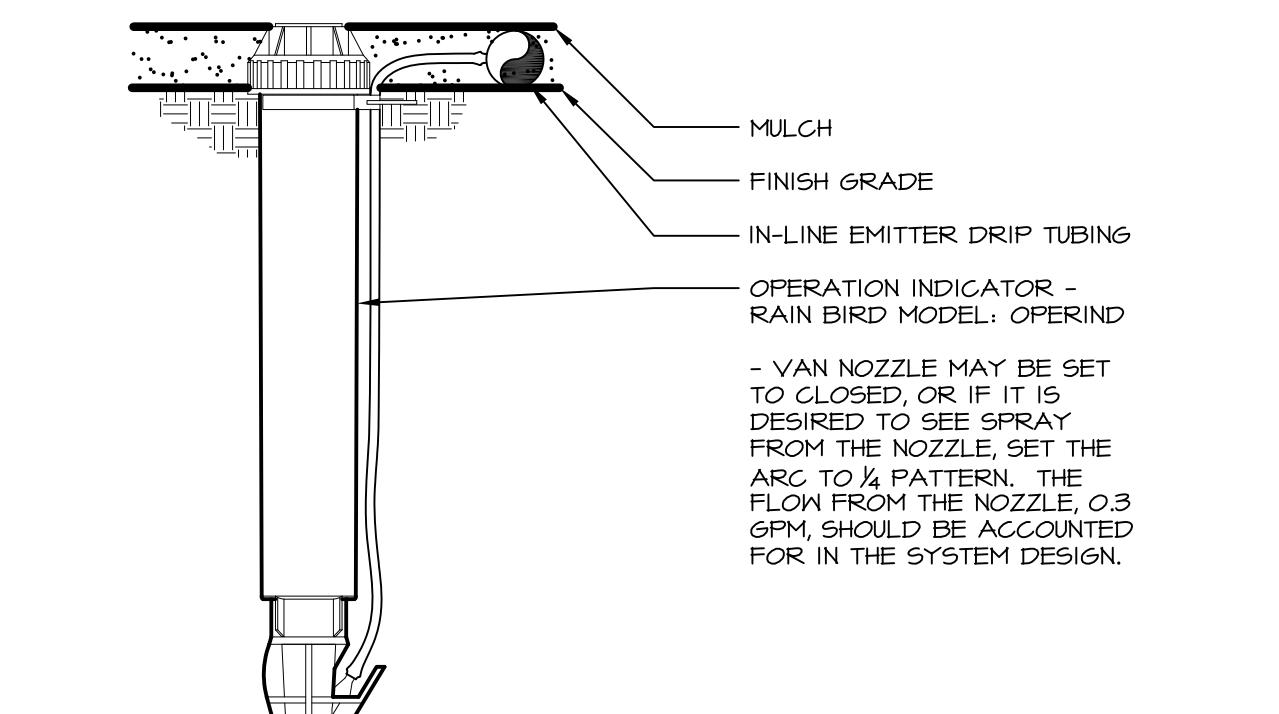
**L1.85**



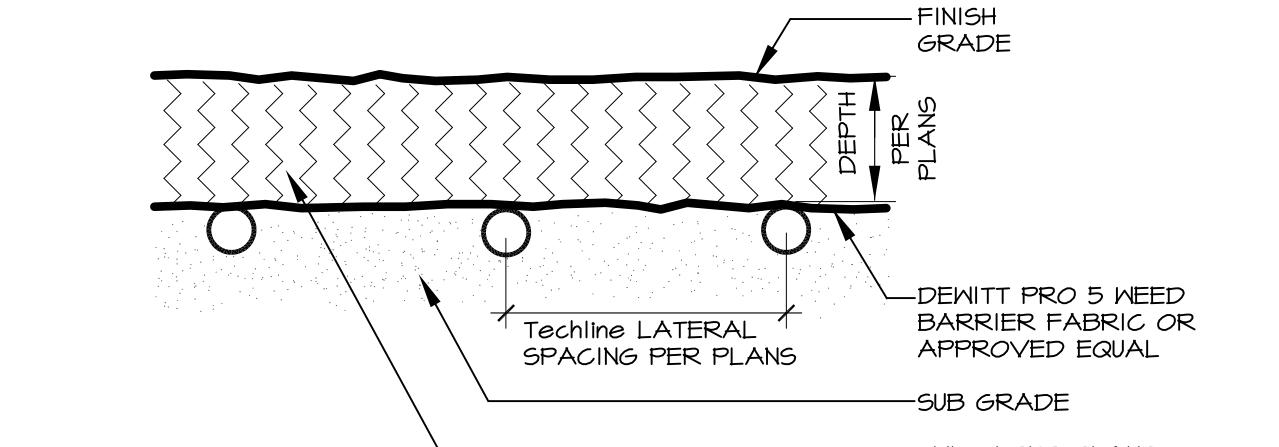
### 1 TECHLINE SUB-HEADER INSTALLATION



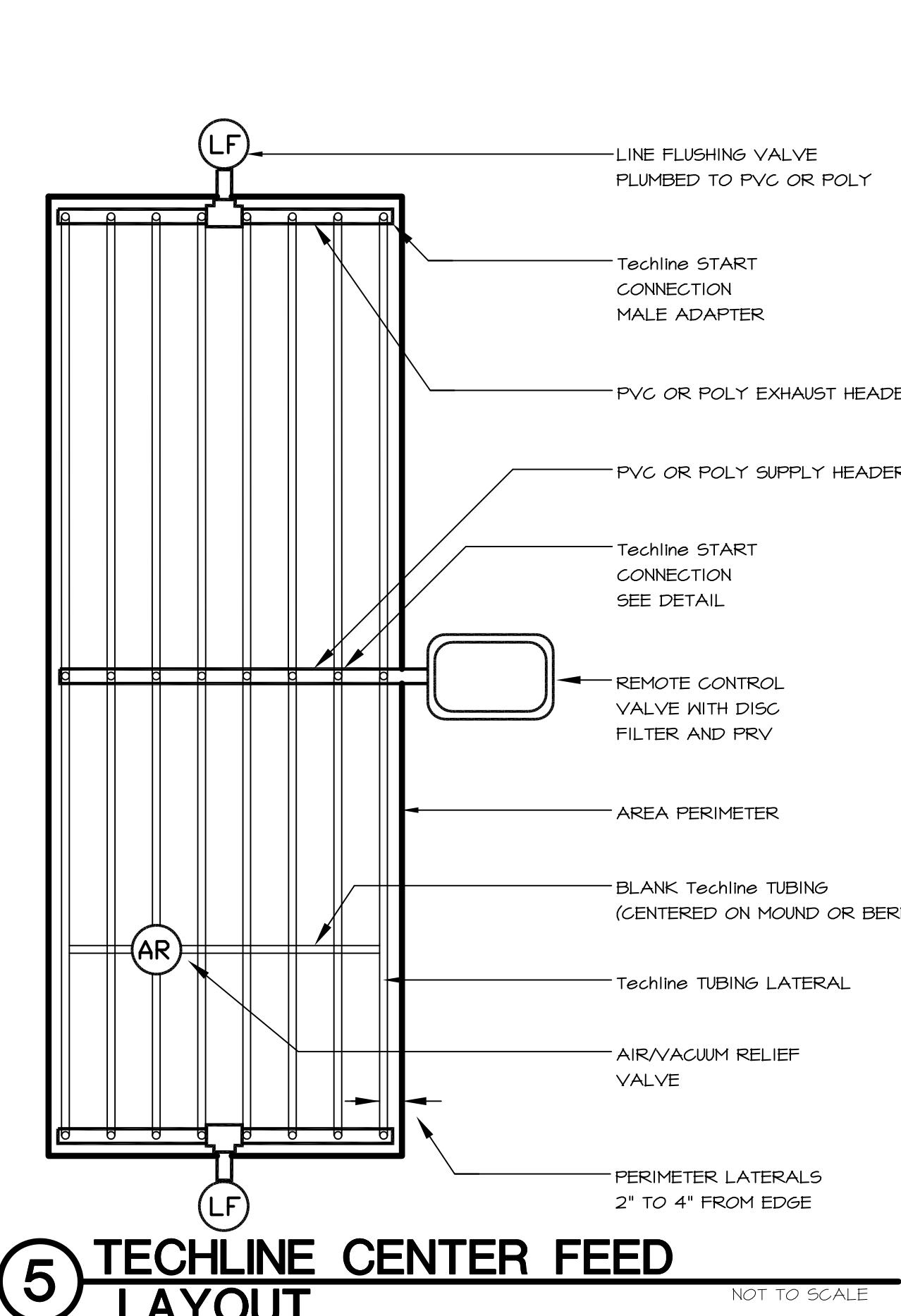
### 2 TECHLINE START CONNECTION (Lateral Line to Tee)



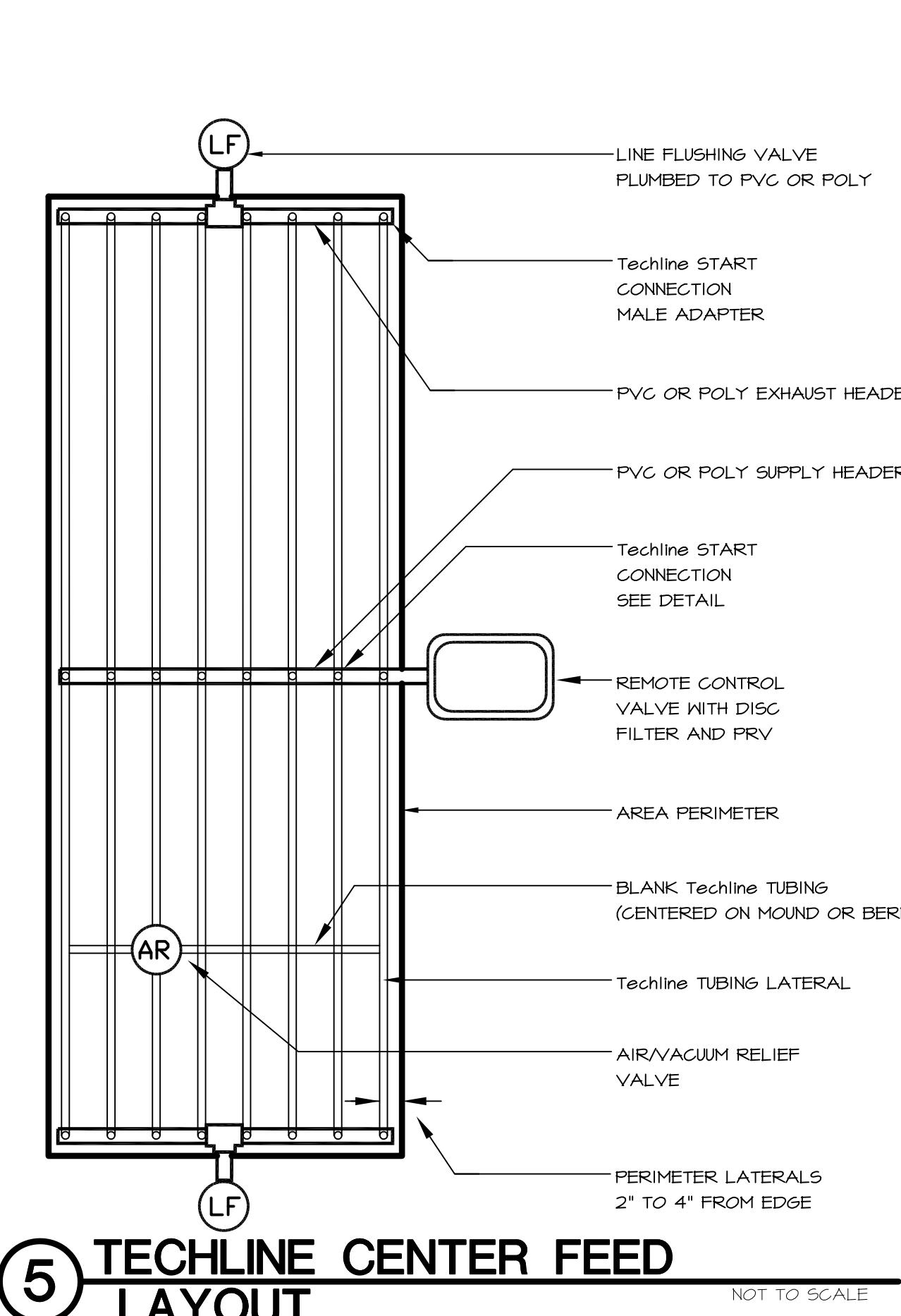
### 3 OPERATION INDICATOR



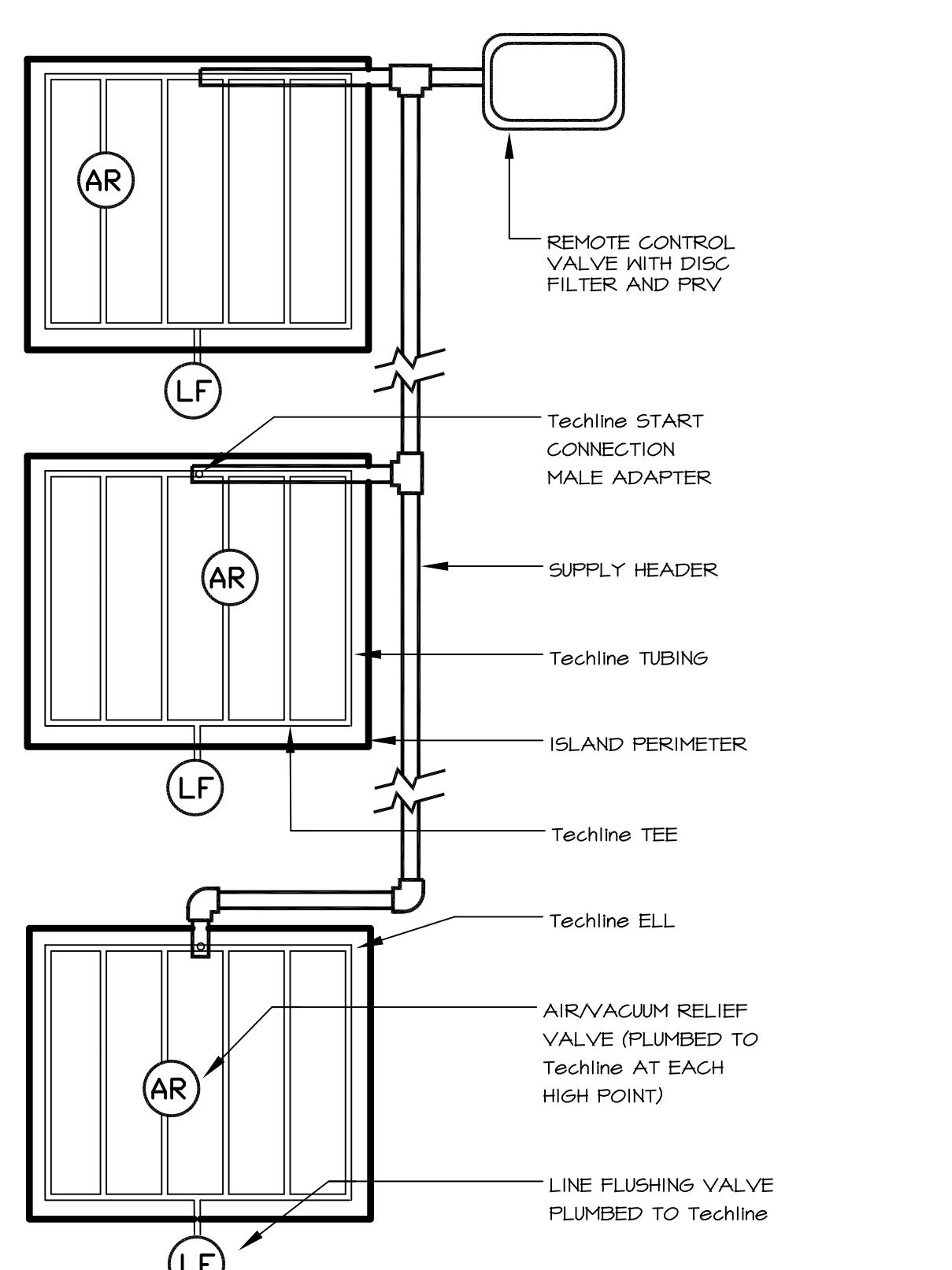
### 4 TECHLINE SUBGRADE INSTALLATION



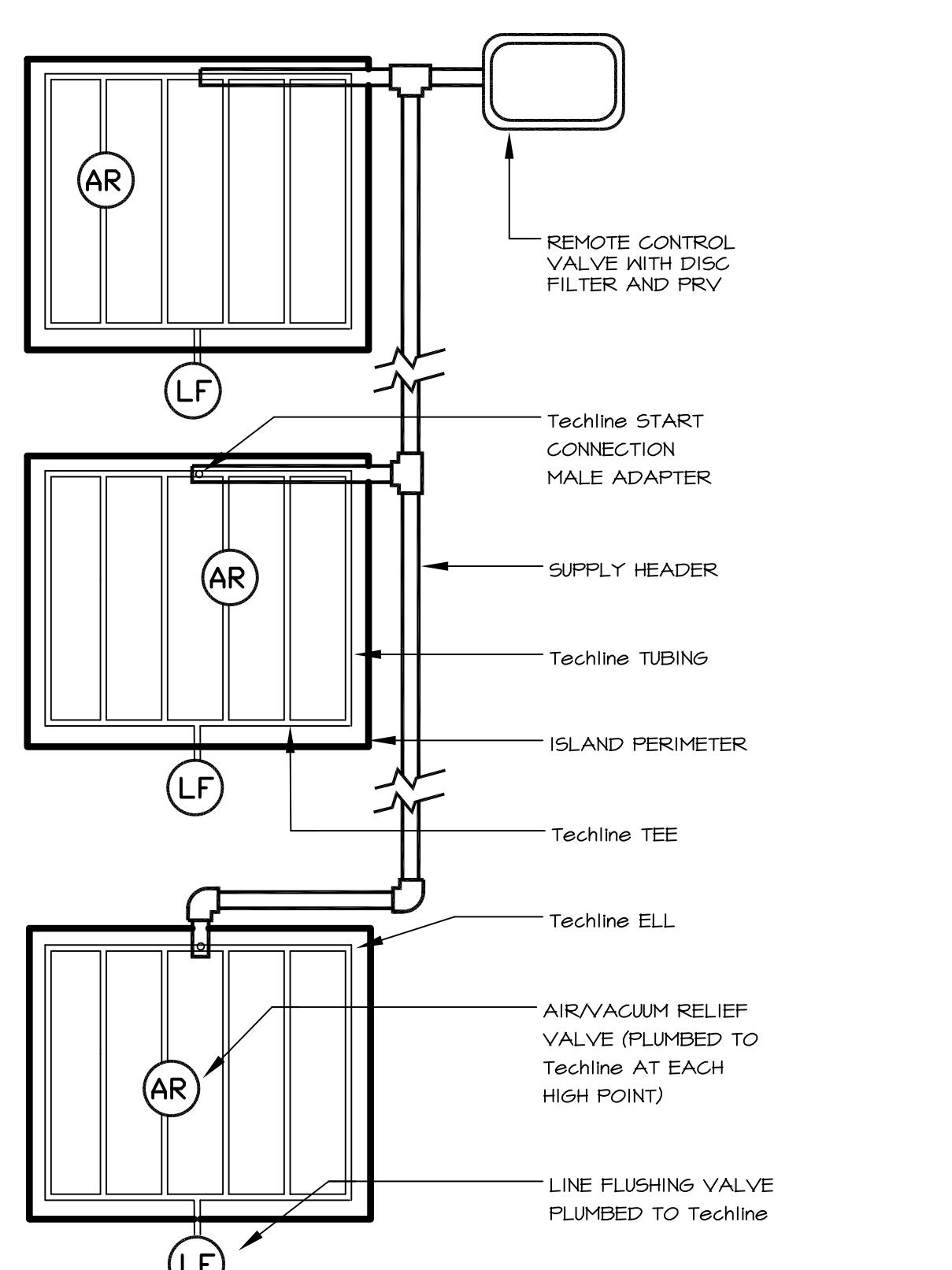
### 5 TECHLINE CENTER FEED LAYOUT



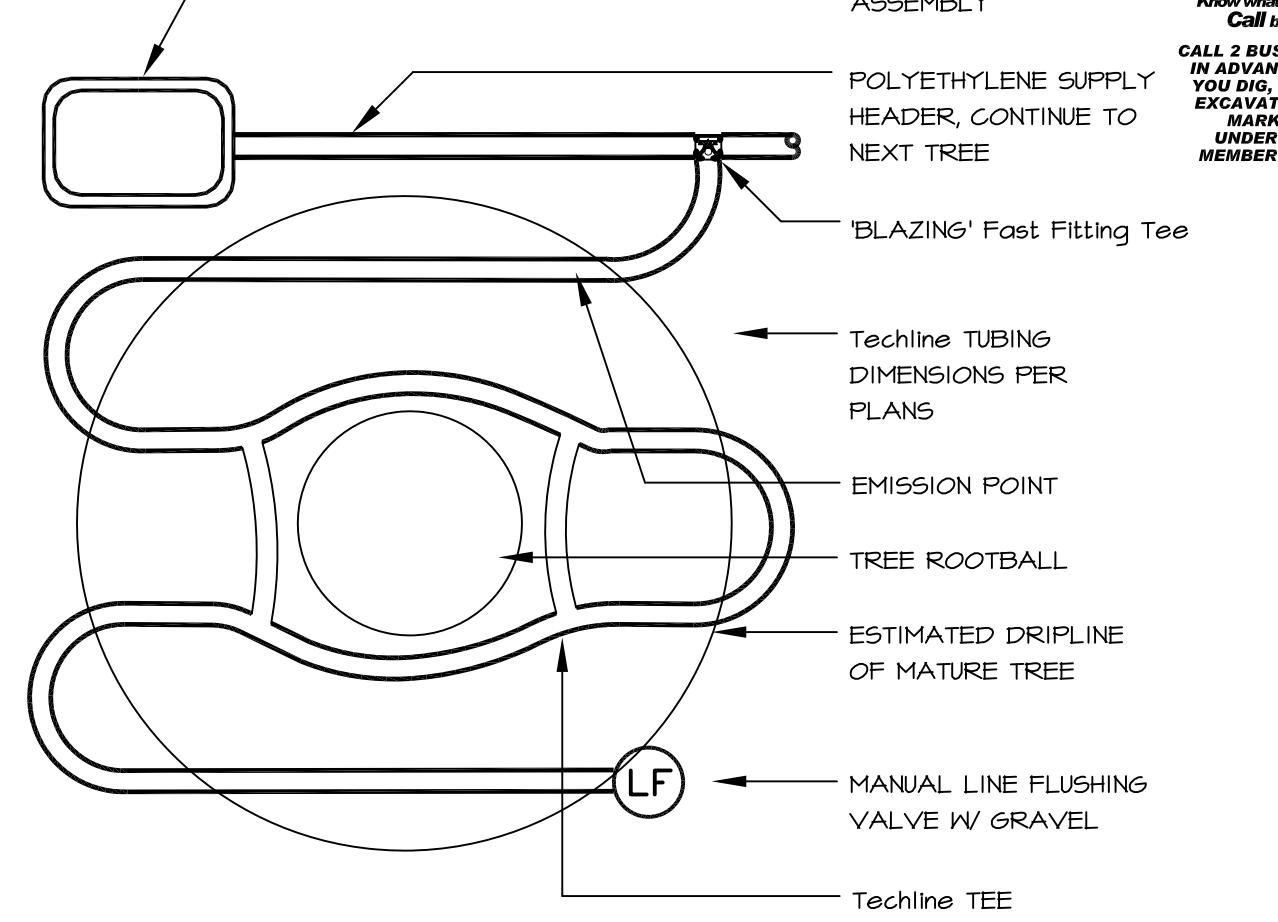
### 6 TECHLINE END FEED LAYOUT



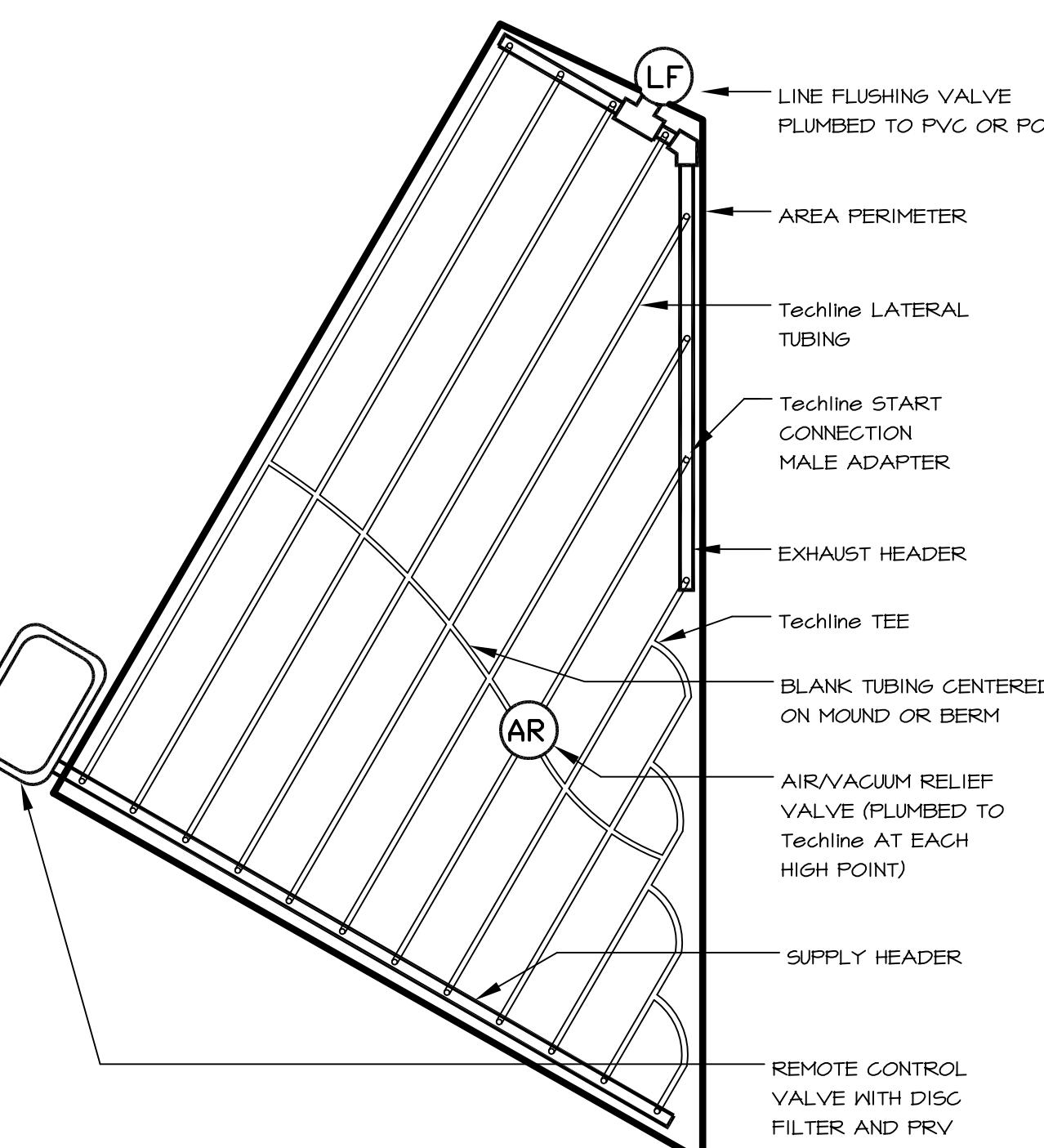
### 7 TECHLINE ISLAND LAYOUT



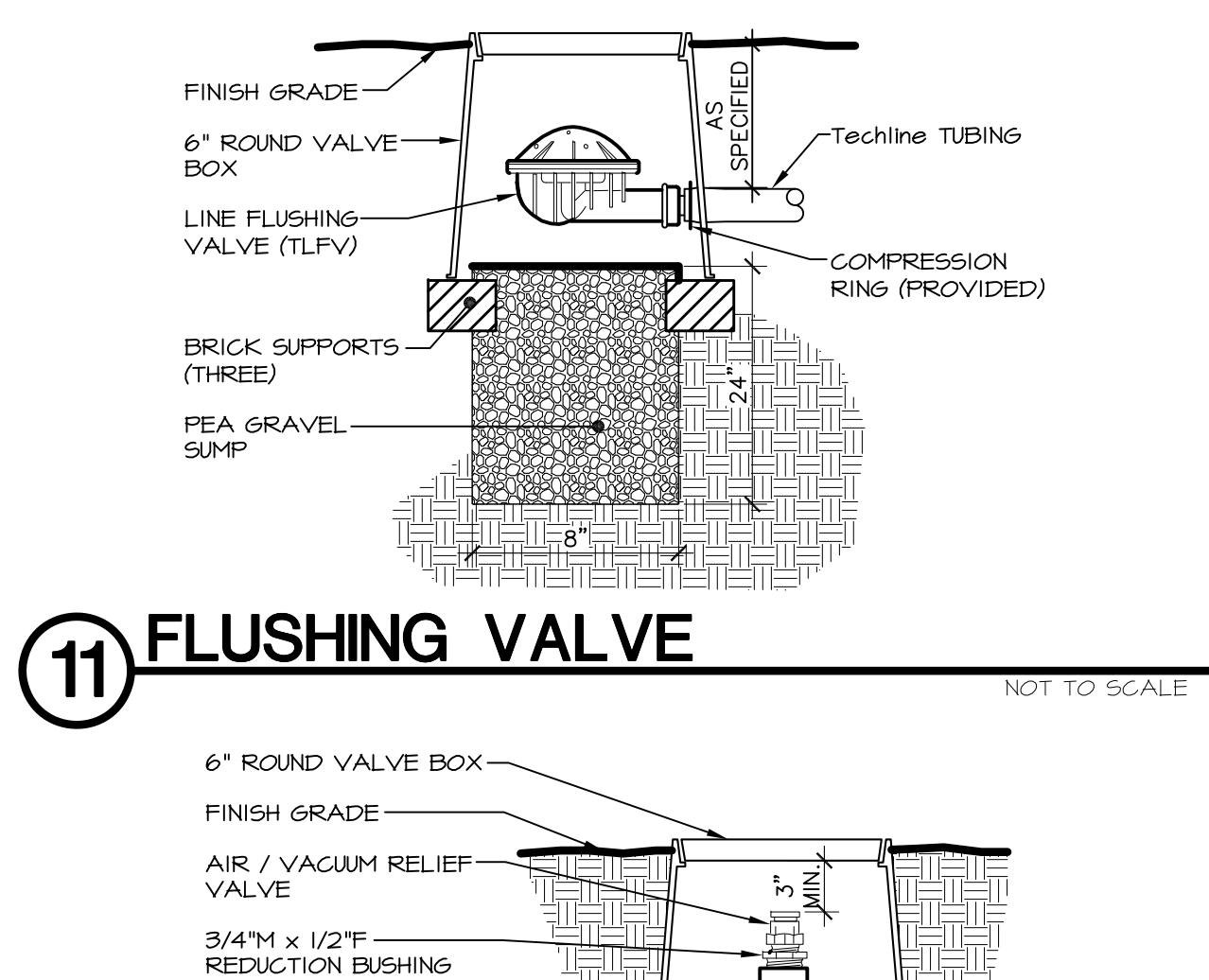
### 8 TECHLINE CURVED AREA LAYOUT



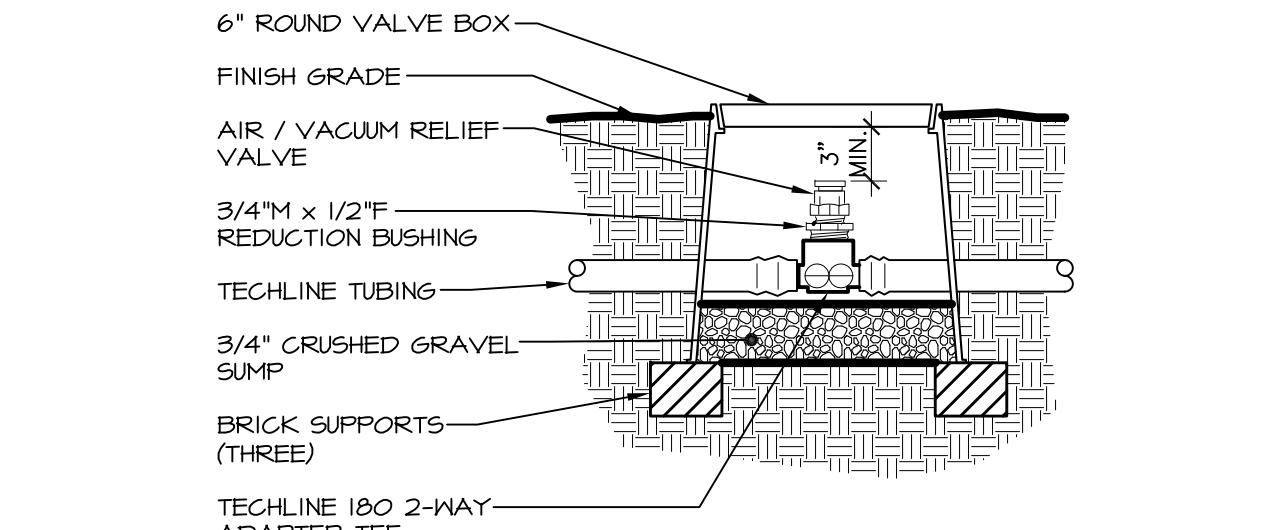
### 9 TECHLINE TUBING & ASSESORY FOR TREE PLANTING



### 10 TECHLINE TRIANGULAR LAYOUT



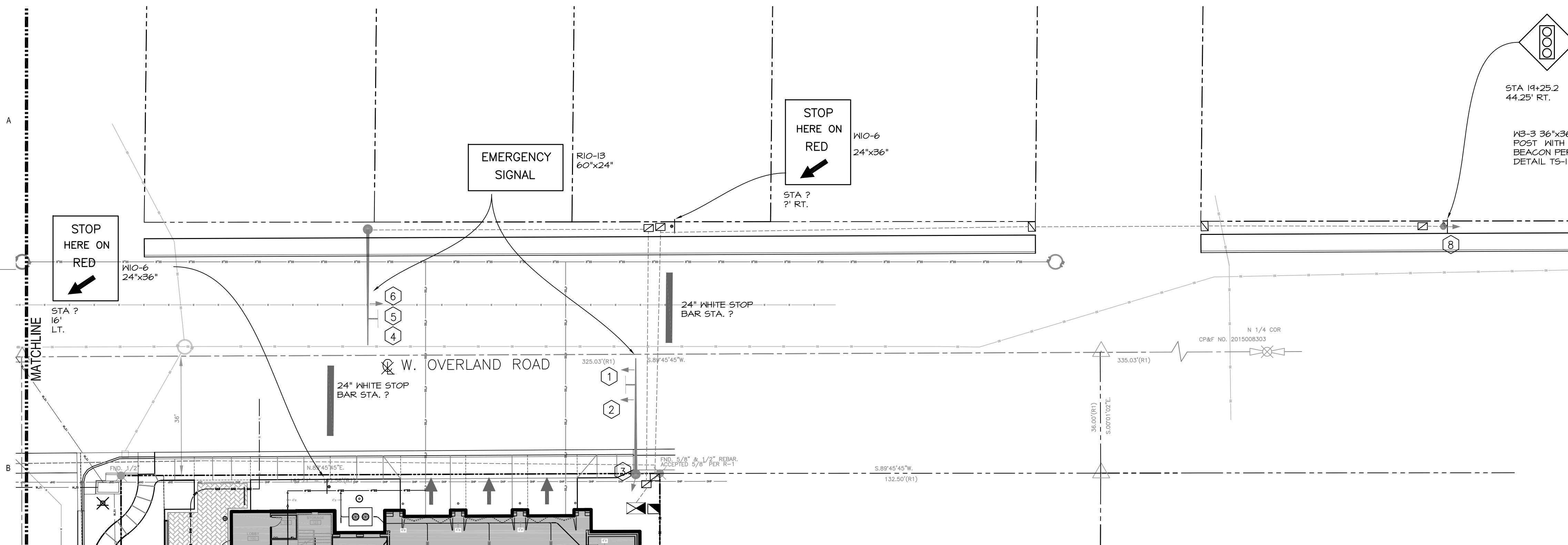
### 11 FLUSHING VALVE



### 12 AIR / VACUUM RELIEF VALVE

| <b>811</b><br>Know Where Below, Call Before Digging<br><small>Call 2 business days in advance before you dig. Digging without first calling can result in fines and penalties. Excavate for the safety of underground member utilities.</small>  | ARCHITECT: _____ |               |                |                |       |                 |           |                   |           |        |    |          |            |
|--|------------------|---------------|----------------|----------------|-------|-----------------|-----------|-------------------|-----------|--------|----|----------|------------|
| <b>COLE ARCHITECTS</b><br>COLE ARCHITECTS   802 W. BANNOCK SUITE 208<br>Boise, ID 83702   (208) 345-1800   |                  |               |                |                |       |                 |           |                   |           |        |    |          |            |
| <b>T C A</b><br><small>architecture • planning</small><br>TCA   811 Roosevelt Way NE<br>Seattle, WA 98115   (208) 522-3820<br><small>STAMP:</small><br><b>NOT FOR CONSTRUCTION</b>   |                  |               |                |                |       |                 |           |                   |           |        |    |          |            |
| <small>CONSULTANT:</small><br><b>BRECKON</b> land design<br><ul style="list-style-type: none"> <li>Landscape Architecture</li> <li>Erosion &amp; Sediment Control</li> <li>Geographic Info Systems</li> <li>Graphic Communication</li> <li>Water Management</li> <li>Irrigation Design</li> <li>Land Planning</li> </ul> <a href="http://www.breckonlanddesign.com">www.breckonlanddesign.com</a><br>Fax: 208-376-6528<br>Phone: <b>208-376-5153</b><br>181 East 50th Street<br>Garden City, Idaho 83714 |                  |               |                |                |       |                 |           |                   |           |        |    |          |            |
| <small>PROJECT INFORMATION:</small><br><b>BOISE CITY OF TREES</b><br><b>BOISE FIRE</b><br><small>EST. 1876 DEDICATION</small><br><b>City of Boise Fire Station 8</b><br>3575 W. Overland Rd. Boise, ID 83705   |                  |               |                |                |       |                 |           |                   |           |        |    |          |            |
| <small>REVISIONS:</small><br><table border="1"> <thead> <tr> <th>MARK</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>  |                  | MARK          | DATE           | DESCRIPTION    |       |                 |           |                   |           |        |    |          |            |
| MARK   | DATE             | DESCRIPTION   |                |                |       |                 |           |                   |           |        |    |          |            |
|  |                  |               |                |                |       |                 |           |                   |           |        |    |          |            |
| <small>Project Status</small><br><table border="1"> <thead> <tr> <th>Project Phase</th> <th>Project Status</th> </tr> </thead> <tbody> <tr> <td>PROJECT NUMBER</td> <td>15045</td> </tr> <tr> <td>PROJECT MANAGER</td> <td>R. TeBeau</td> </tr> <tr> <td>PROJECT ARCHITECT</td> <td>R. TeBeau</td> </tr> <tr> <td>DESIGN</td> <td>JB</td> </tr> <tr> <td>DRAWN BY</td> <td>BS, LP, TC</td> </tr> </tbody> </table>   |                  | Project Phase | Project Status | PROJECT NUMBER | 15045 | PROJECT MANAGER | R. TeBeau | PROJECT ARCHITECT | R. TeBeau | DESIGN | JB | DRAWN BY | BS, LP, TC |
| Project Phase  | Project Status   |               |                |                |       |                 |           |                   |           |        |    |          |            |
| PROJECT NUMBER   | 15045            |               |                |                |       |                 |           |                   |           |        |    |          |            |
| PROJECT MANAGER  | R. TeBeau        |               |                |                |       |                 |           |                   |           |        |    |          |            |
| PROJECT ARCHITECT  | R. TeBeau        |               |                |                |       |                 |           |                   |           |        |    |          |            |
| DESIGN   | JB               |               |                |                |       |                 |           |                   |           |        |    |          |            |
| DRAWN BY   | BS, LP, TC       |               |                |                |       |                 |           |                   |           |        |    |          |            |
| <small>SHEET NAME:</small><br><b>IRRIGATION DETAILS</b>  |                  |               |                |                |       |                 |           |                   |           |        |    |          |            |
| <small>SHEET NUMBER:</small><br><b>L1.86</b>   |                  |               |                |                |       |                 |           |                   |           |        |    |          |            |

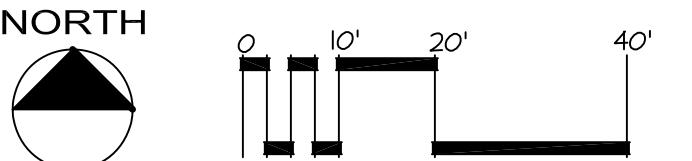




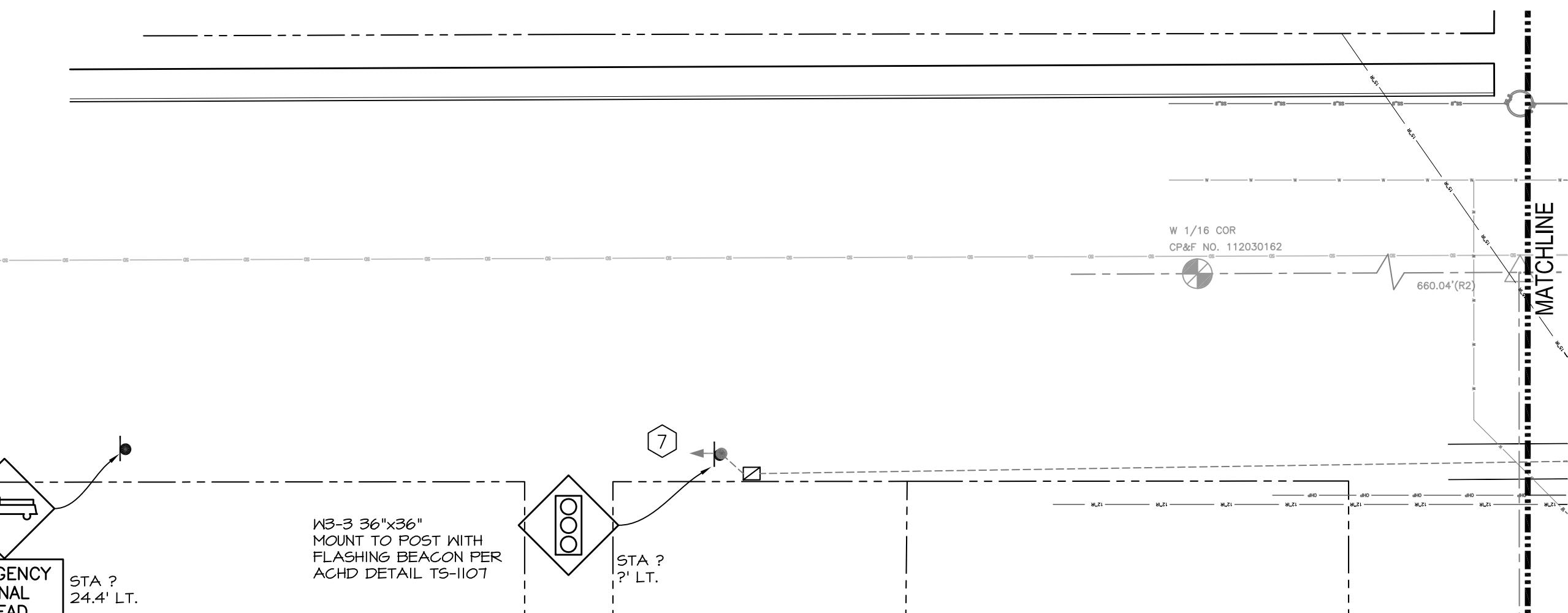
## ROADWAY SIGNING AND STRIPING PLAN

SCALE: 1" = 20'-0"

NORTH



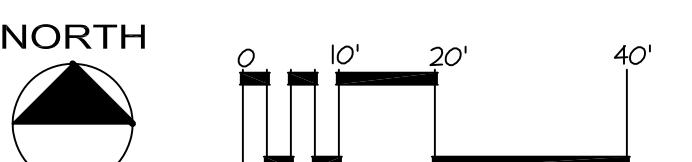
Matchline



## ROADWAY SIGNING AND STRIPING PLAN

SCALE: 1" = 20'-0"

NORTH



## LEGEND

- PULL BOX (TYPE S40/ADA)
- PULL BOX (TYPE S45/ADA)
- (51) PULL BOX (TYPE S51)
- SIGNAL POLE AND MAST ARM
- SIGNAL NUMBER
- LUMINAIRE
- SIGNAL HEAD
- EMERGENCY PRE-EMPTION DETECTOR
- MAST ARM MOUNTED SIGN
- SERVICE PEDESTAL
- CONDUIT RUN
- △ CONDUIT NUMBER

## ROADWAY NOTES

- ALL CONSTRUCTION SHALL CONFORM TO CURRENT EDITION OF THE I.S.P.W.C. AND THE A.C.H.D. SUPPLEMENTAL SPECIFICATIONS. NO EXCEPTIONS TO DISTRICT POLICY, STANDARDS, AND THE I.S.P.W.C. WILL BE ALLOWED UNLESS SPECIFICALLY AND PROPERLY APPROVED IN WRITING BY THE ADA COUNTY HIGHWAY DISTRICT.
- INSPECTION DISTRICT
- ALL TOPS OF VALVE BOXES AND SEWER MANHOLES SHALL BE SET FLUSH WITH THE SLOPE OF THE FINISHED STREET GRADES.
- ANY STORM DRAWDRAFF APPURTENANCES SHALL BE EXPECTED AND PROVIDED BY THE ADA COUNTY HIGHWAY DISTRICT.
- ALL WATER VALVES BLOW-OFFS AND MANHOLES SHALL BE PLACED SO AS NOT TO CONFLICT WITH ANY CONCRETE CURB AND GUTTER, VALLEY GUTTER, AND SIDEWALK IMPROVEMENTS.
- IF ANY UTILITY OR IRRIGATION FACILITY INTERFERES WITH REQUIRED STREET IMPROVEMENTS, ALL SUCH UTILITIES OR IRRIGATION FACILITIES SHALL BE RELOCATED AS TO NOT INTERFERE WITH REQUIRED STREET IMPROVEMENTS AT THE OWNER'S EXPENSE.
- INSTALL TRUNCATED DOMES FOR ALL PEDESTRIAN RAMPS PER A.C.H.D. SUPPLEMENTAL STANDARD DRAWING SD-T12. DOMES SHALL BE CAST INTO CONCRETE, STAMPED CONCRETE AND ADHESIVE MATS WILL NOT BE ALLOWED. DOMES SHALL BE PAINTED TRAFFIC YELLOW IN ACCORDANCE WITH THE STANDARD DRAWING.
- THE CONTRACTOR SHALL REMOVE ALL OBSTRUCTIONS, BOTH ABOVE GROUND AND UNDERGROUND, AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE FACILITIES WITHIN THE CONSTRUCTION SITE UNTIL THE DRAINAGE IMPROVEMENTS ARE IN PLACE AND FUNCTIONING.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ANY CURRENTLY APPLICABLE SAFETY LAW OF ANY JURISDICTIONAL BODY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRICADES, SAFETY DEVICES AND CONTROL OF TRAFFIC WITHIN AND AROUND THE CONSTRUCTION AREA.
- ALL CONSTRUCTION ACTIVITIES SHALL BE HELD A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE START OF WORK. ALL CONTRACTORS, SUBCONTRACTORS AND/OR UTILITY CONTRACTORS SHALL BE PRESENT.
- ALL MATERIALS FURNISHED ON OR FOR THE PROJECT MUST MEET THE MINIMUM REQUIREMENTS OF THE APPROVING AGENCIES, OR AS SET FORTH HEREIN, WHICH EVER IS MORE RESTRICTIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS INSTALLED ON THIS PROJECT MEET THIS REQUIREMENT AT THE REQUEST OF THE AGENCY OR THE ENGINEER.
- THE CONTRACTOR MUST OBTAIN A RIGHT-OF-WAY PERMIT AT LEAST FIVE (5) DAYS PRIOR TO THE START OF CONSTRUCTION.
- SEE CONTRACT DOCUMENTS FOR LIMITATIONS AND RESTRICTIONS ON CONSTRUCTION STAKING PROVIDED BY OWNER.

## PAVEMENT REPAIR

ACTUAL FIELD CONDITIONS DURING TRENCHING MAY REQUIRE ADDITIONAL PAVEMENT REPAIR BEYOND THE LIMITS SHOWN ON THE PLANS. THE FOLLOWING CONDITIONS ARE LISTED IN SECTION 600B.12.1 OF ACHD POLICY MANUAL:

- ALL ASPHALT MATCH LINES FOR PAVEMENT REPAIR SHALL BE PARALLEL TO THE CENTERLINE OF THE STREET AND INCLUDE ANY AREA DAMAGED BY EQUIPMENT DURING TRENCHING OPERATIONS.
- IF THE CUMULATIVE DAMAGED PAVEMENT AREA EXCEEDS 50% OF THE TOTAL ROAD WIDTH, THE CONTRACTOR SHALL REPLACE THE ENTIRE ROADWAY SURFACE.
- CONTRACTOR SHALL REPLACE THE PAVEMENT SURFACE TO ENSURE MATCH LINE DOES NOT FALL WITHIN THE WHEEL PATH OF A LANE. MATCH LINE SHALL ONLY FALL IN THE CENTER OR EDGE OF A TRAVEL LANE.
- FLATBED TRUCKS OF IMPORTED MATERIAL MAY BE REQUIRED IF THE NATIVE FRESH MATERIAL IS DEEMED UNSUITABLE BY ACHD INSPECTOR, DOES NOT MEET COMPACTION STANDARDS, OR TIME IS A CRITICAL FACTOR.
- ANY EXCEPTIONS TO THESE RULES SHALL BE PRE-APPROVED IN WRITING BY DISTRICT STAFF BEFORE CONSTRUCTION BEGINS

## ROADWAY SIGNING AND STRIPING PLAN

TS1.11

SHEET NUMBER:

1.29.16

## REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

## PROJECT PHASE Project Status

|                   |            |
|-------------------|------------|
| PROJECT NUMBER    | 15045      |
| PROJECT MANAGER   | R. TeBeau  |
| PROJECT ARCHITECT | R. TeBeau  |
| DESIGN            | DT         |
| DRAWN BY          | BS, LP, TC |

SHEET NAME:

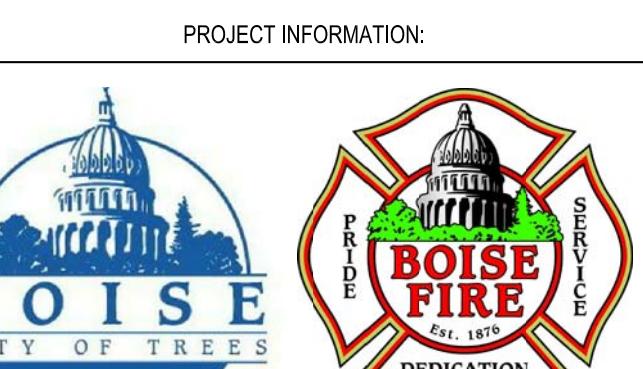
SHEET NUMBER:

1.29.16

**TCA**  
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TCA | 821 Roosevelt Way NE  
Seattle, WA 98115 | (206) 522-3820  
STAMP:

**NOT FOR CONSTRUCTION**  
PROFESSIONAL ENGINEER  
REGISTERED  
DANIEL A. THOMPSON  
DATE OF 10/04/2015

**BRECKON**  
land design  
Landscape Architecture www.breckonlanddesign.com  
• Erosion & Sediment Control Fax 208-376-6528  
• Geographic Info Systems Phone: 208-376-5153  
• Graphic Communication  
• Water Management  
• Irrigation Design  
• Land Planning  
181 East 50th Street  
Garden City, Idaho 83744



**City of Boise Fire Station 8**  
3575 W. Overland Rd. Boise, ID 83705

## REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

## Project Status

|                   |            |
|-------------------|------------|
| PROJECT NUMBER    | 15045      |
| PROJECT MANAGER   | R. TeBeau  |
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| DESIGN            | DT         |
| DRAWN BY          | BS, LP, TC |

SHEET NAME:

SHEET NUMBER:

1.29.16

Know where below.  
Call before you dig.  
Call business days  
in advance before  
you dig. It's free.  
Excavate for the  
right direction  
underground  
member utilities.

**COLE ARCHITECTS**  
COLE ARCHITECTS | 802 W. BANNOCK SUITE 208  
Boise, ID 83702 | (208) 345-1800

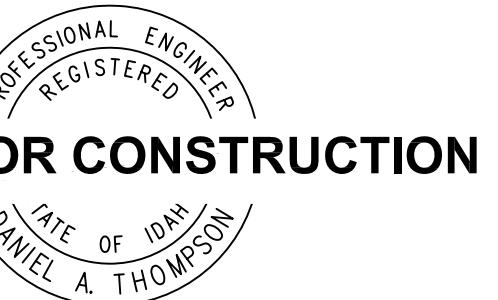


A

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Seattle, WA 98115 | (208) 522-3820

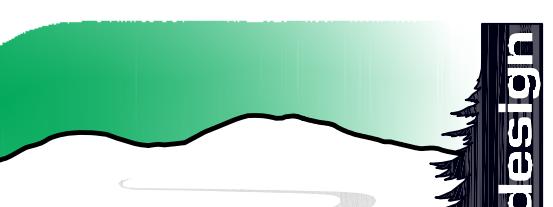
STAMP:



**NOT FOR CONSTRUCTION**

DANIEL A. THOMPSON  
DATE OF 10/04/2015

CONSULTANT:



BRECKON land design  
• Landscape Architecture www.breckonlanddesign.com  
• Erosion & Sediment Control Fax 208-376-6528  
• Geographic Info Systems Phone: 208-376-5153  
• Graphic Communication 181 East 50th Street  
• Water Management Garden City, Idaho 83714  
• Irrigation Design  
• Land Planning

PROJECT INFORMATION:



**City of Boise Fire Station 8**  
3575 W. Overland Rd. Boise, ID 83705

C REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

| PROJECT PHASE     | Project Status |
|-------------------|----------------|
| PROJECT NUMBER    | 15045          |
| PROJECT MANAGER   | R. TeBeau      |
| PROJECT ARCHITECT | R. TeBeau      |
| DESIGN            | DT             |
| DRAWN BY          | BS, LP, TC     |

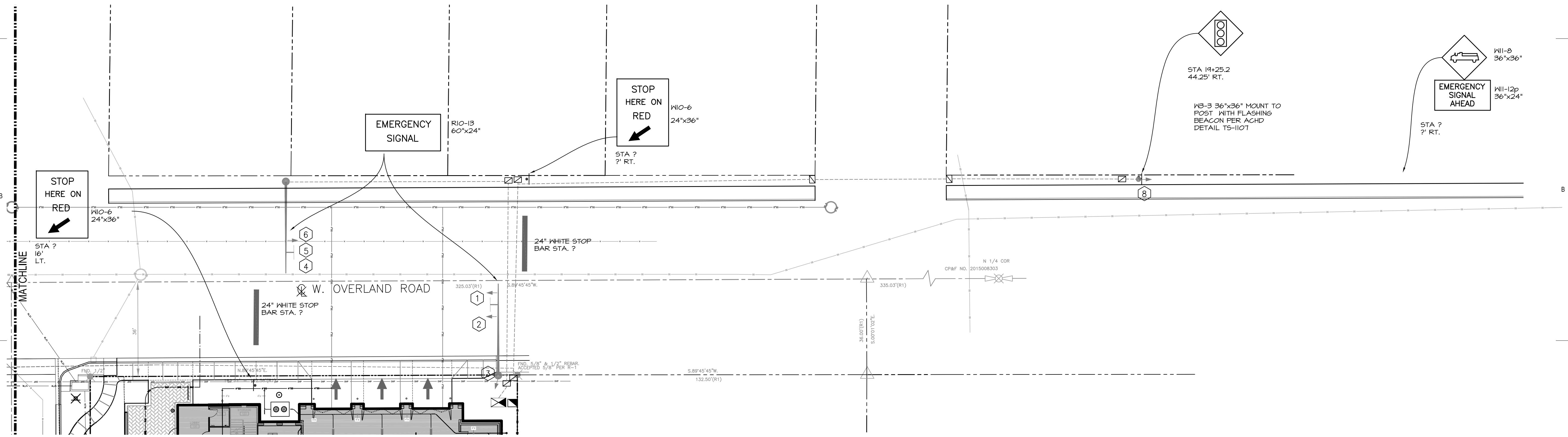
SHEET NAME:

**CONSTRUCTION TRAFFIC CONTROL PLAN**

D SHEET NUMBER:

**TS1.12**

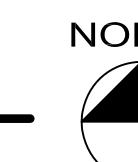
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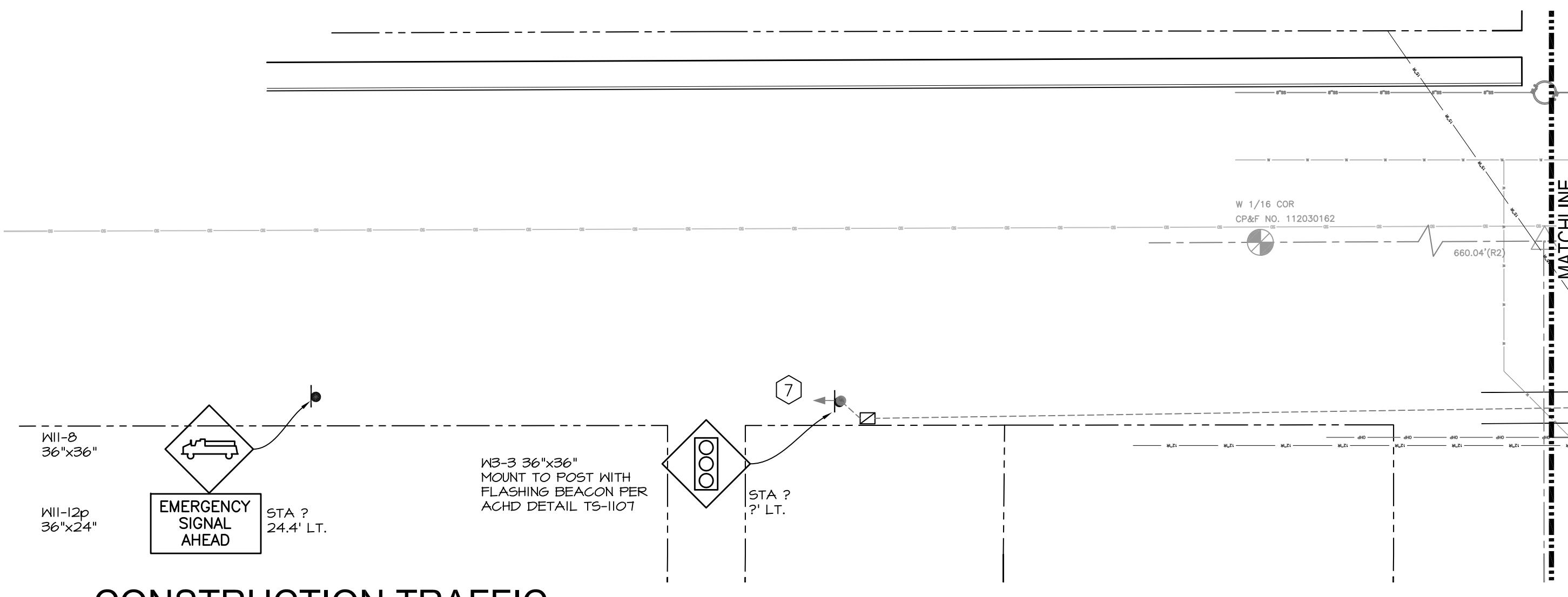
### CONSTRUCTION TRAFFIC CONTROL PLAN

1

SCALE: 1" = 20'-0"



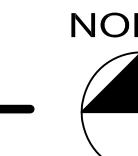
NORTH  
0' 10' 20' 40'



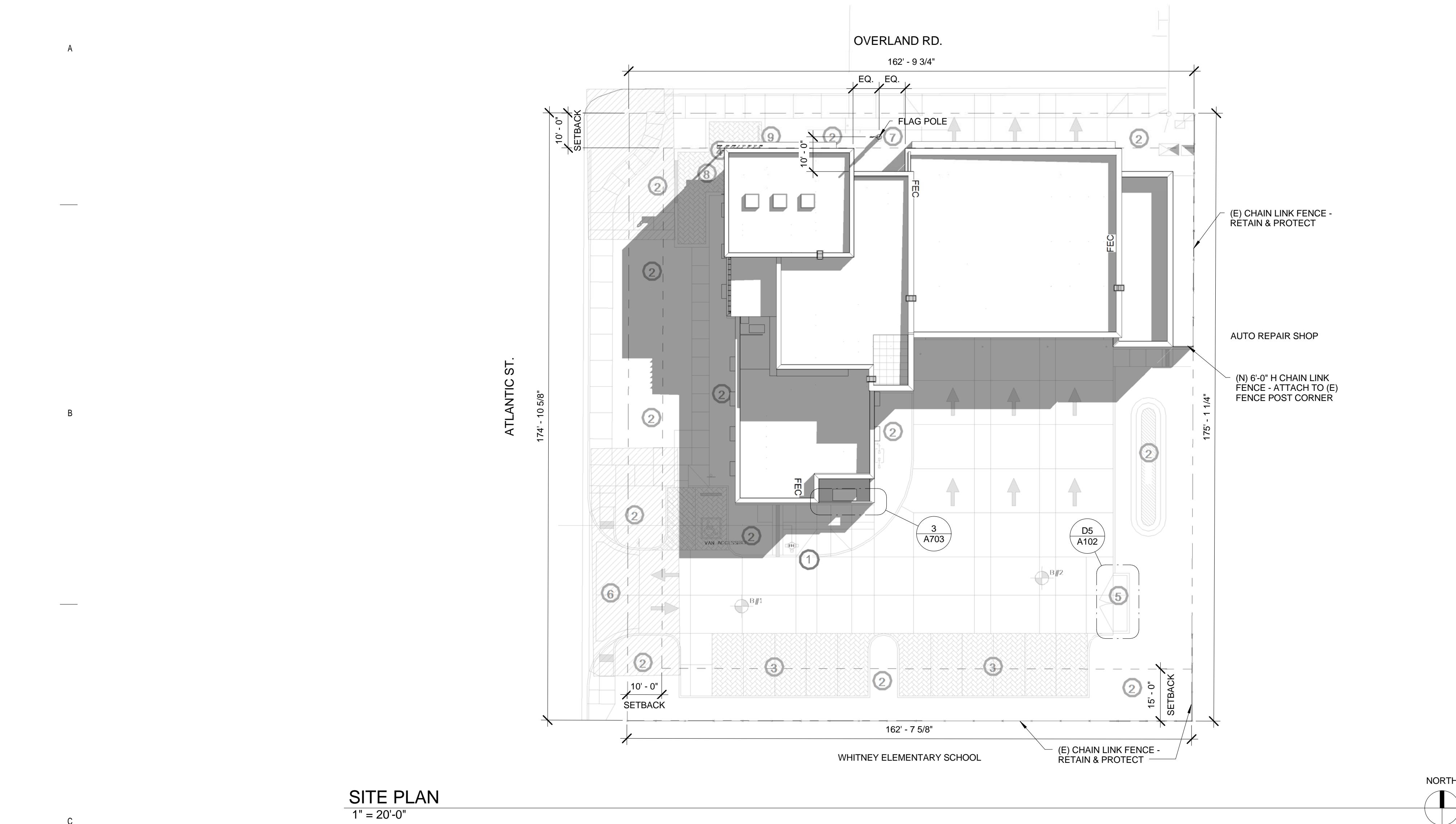
### CONSTRUCTION TRAFFIC CONTROL PLAN

2

SCALE: 1" = 20'-0"



NORTH  
0' 10' 20' 40'

**GENERAL NOTES SITE PLAN:**

- A. BEFORE PROCEEDING TO LAY OUT THE WORK, VERIFY LAYOUT INFORMATION SHOWN ON DRAWINGS, IN RELATION TO THE PROPERTY SURVEY AND EXISTING BENCHMARKS. IF DISCREPANCIES ARE DISCOVERED, NOTIFY ARCHITECT PROMPTLY.
- B. ENGAGE A LAND SURVEYOR OR PROFESSIONAL ENGINEER TO LAY OUT THE WORK USING ACCEPTED SURVEYING PRACTICES.
- C. ESTABLISH BENCHMARKS AND CONTROL POINTS TO SET LINES AND LEVELS AT EACH STORY OF CONSTRUCTION AND ELSEWHERE AS NEEDED TO LOCATE EACH ELEMENT OF PROJECT.
- D. ESTABLISH LIMITS ON USE OF PROJECT SITE. IF STAGING AREA IS NOT DESIGNATED ON PLANS, THEN COORDINATE LOCATION WITH OWNER.
- E. ESTABLISH DIMENSIONS WITHIN TOLERANCES INDICATED. DO NOT SCALE DRAWINGS TO OBTAIN REQUIRED DIMENSIONS.
- F. INFORM SUBCONTRACTORS OF LINES AND LEVELS TO WHICH THEY MUST COMPLY.
- G. CHECK THE LOCATION, LEVEL AND PLUMB, OF EVERY MAJOR ELEMENT AS THE WORK PROGRESSES.
- H. LOCATE AND LAY OUT CONTROL LINES AND LEVELS FOR STRUCTURES, BUILDING FOUNDATIONS, COLUMN GRIDS, AND FLOOR LEVELS, INCLUDING THOSE REQUIRED FOR MECHANICAL AND ELECTRICAL WORK. TRANSFER SURVEY MARKINGS AND ELEVATIONS FOR USE WITH CONTROL LINES AND LEVELS. LEVEL FOUNDATIONS AND PIERS FROM TWO OR MORE LOCATIONS.

**KEY NOTES: #**

1. FIRE HYDRANT - RE: CIVIL SHEETS
2. PLANTER - RE: CIVIL SHEETS
3. PARKING STALLS - RE: CIVIL SHEETS
4. PUBLIC PLAZA - RE: CIVIL SHEETS
5. DUMPSTER ENCLOSURE - RE: SITE DETAILS
6. VAN ACCESSORIES - RE: CIVIL SHEETS
7. FLAGPOLE - RE: CIVIL SHEETS
8. SEATWALL - RE: CIVIL SHEETS
9. BICYCLE RACK - RE: CIVIL SHEETS

**NOT FOR CONSTRUCTION**

CONSULTANT:

PROJECT INFORMATION:

**City of Boise Fire Station 8**

3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

PROJECT PHASE 75% CD's

PROJECT NUMBER 15-28  
 PROJECT MANAGER R. TeBeau  
 PROJECT ARCHITECT R. TeBeau  
 DESIGN B. Harris/ R. TeBeau  
 DRAWN BY Author

SHEET NAME:

**SITE PLAN**

SHEET NUMBER:

**A101**

COLE ARCHITECTS

COLE ARCHITECTS | 802 W. BANNOCK SUITE 208

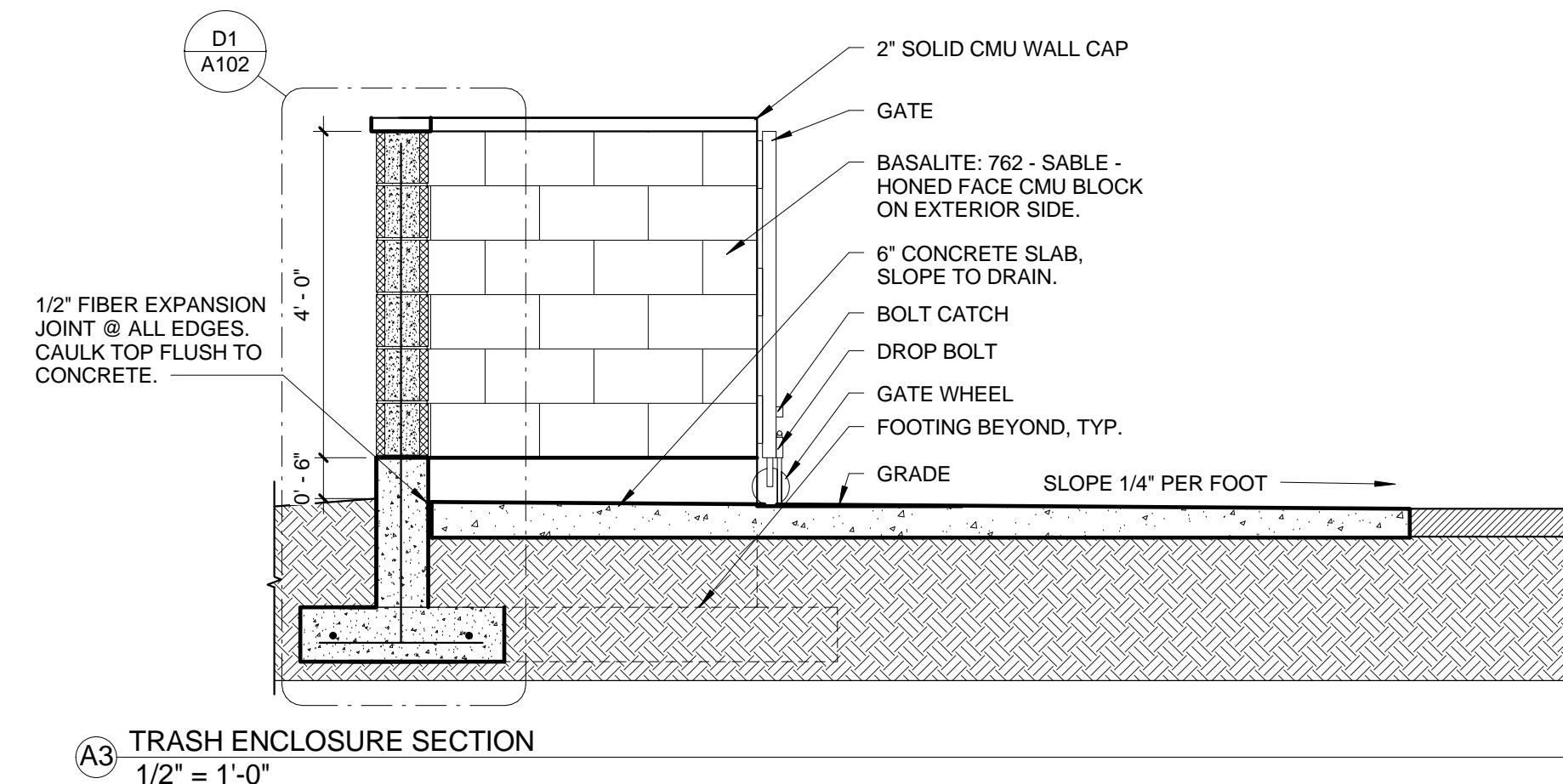
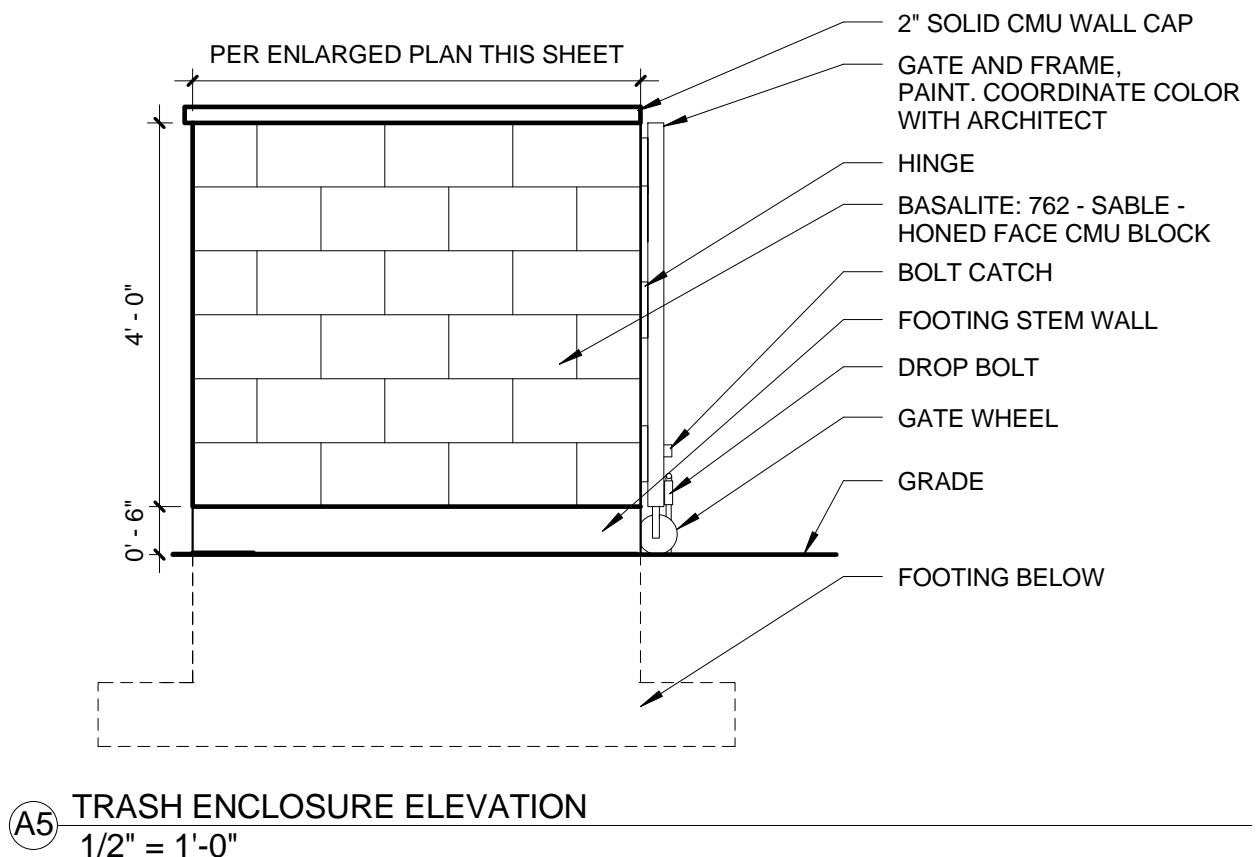
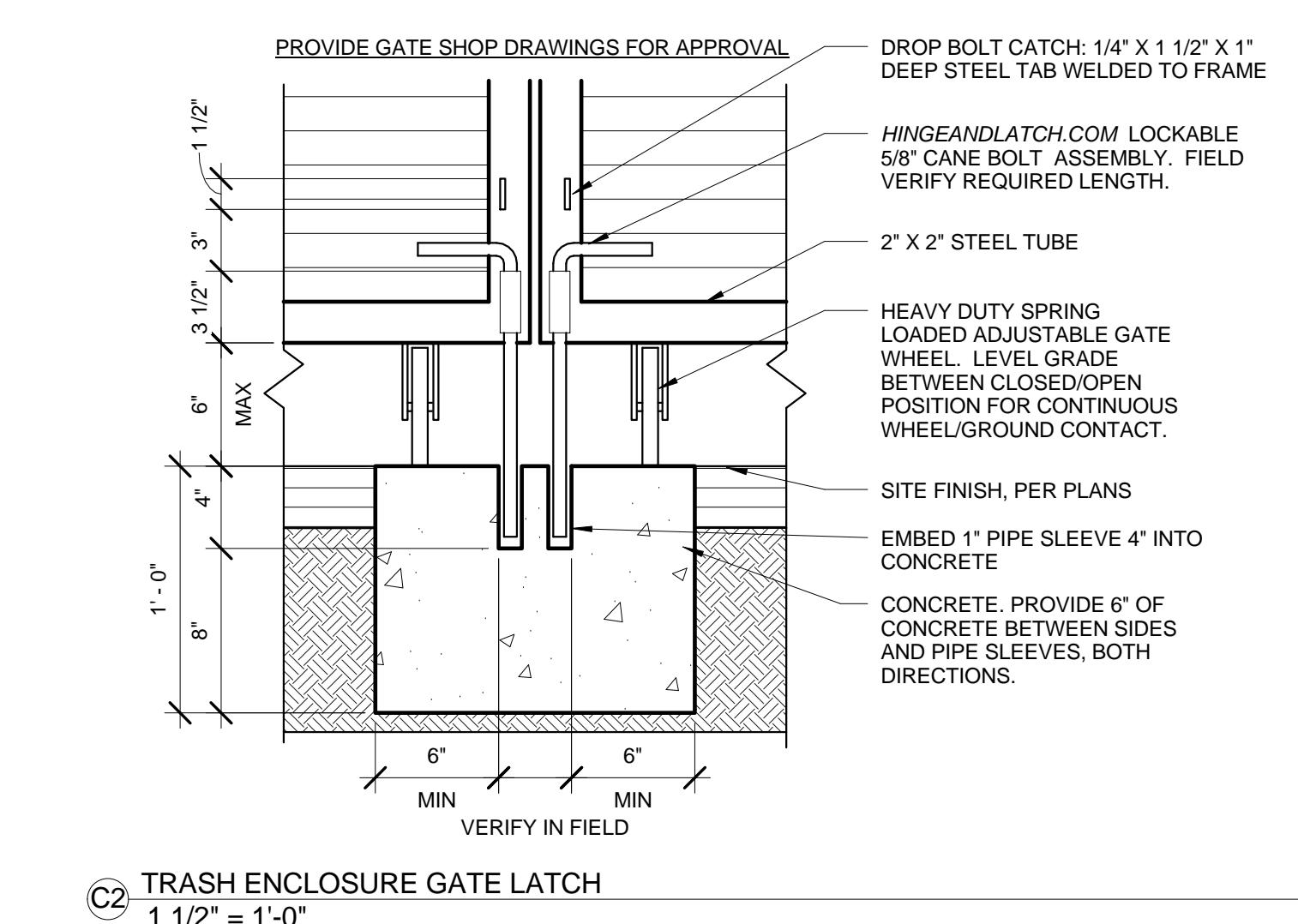
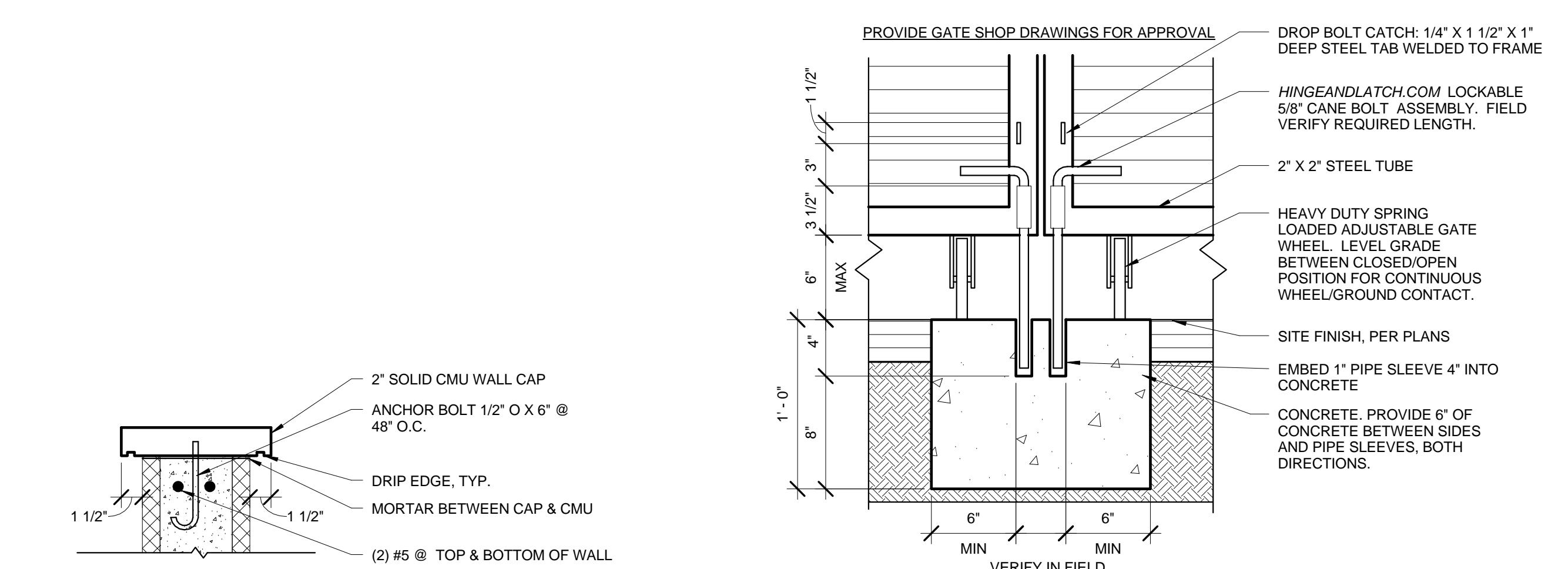
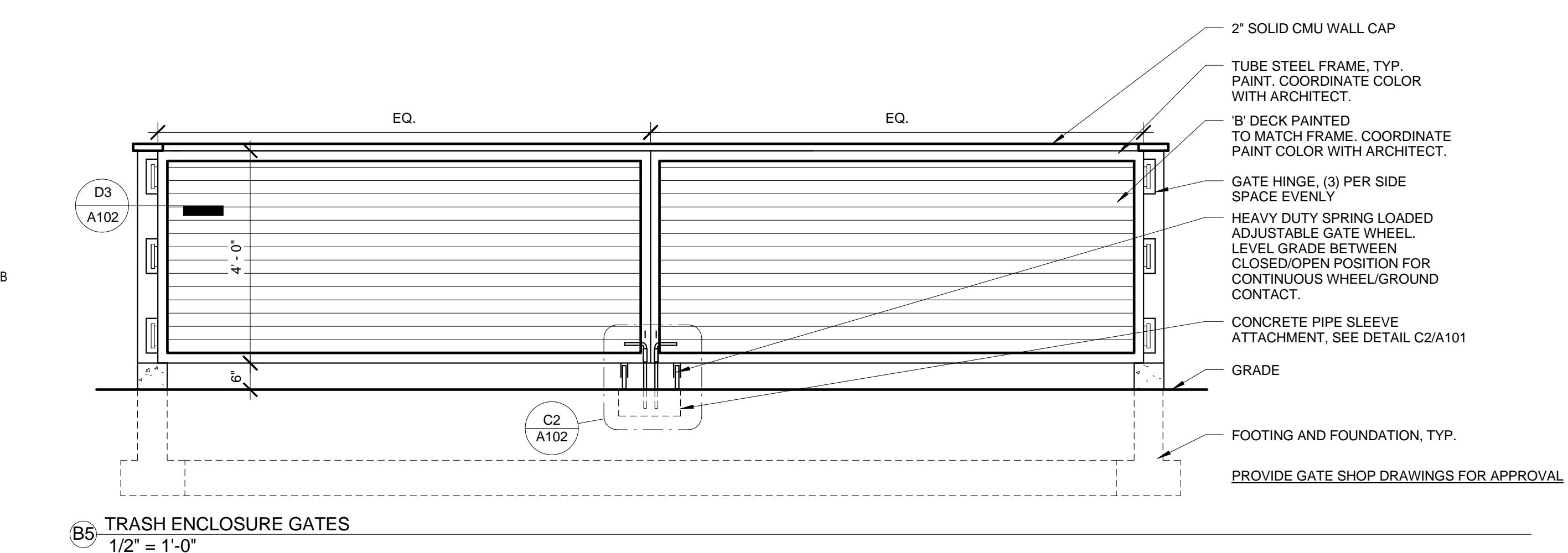
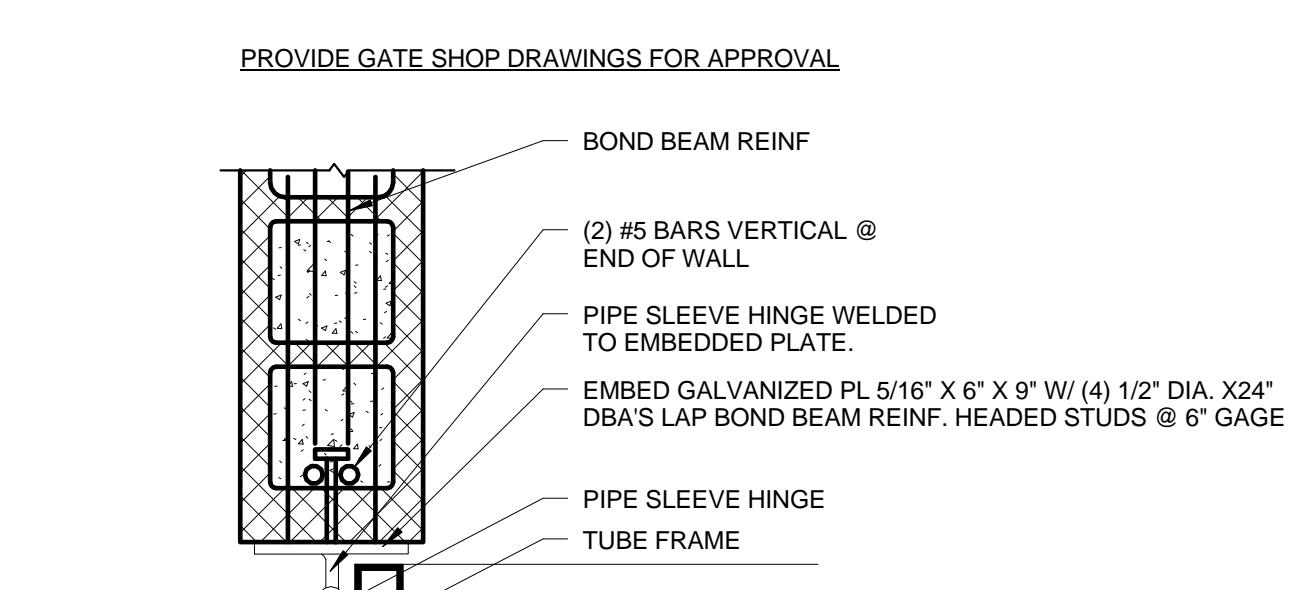
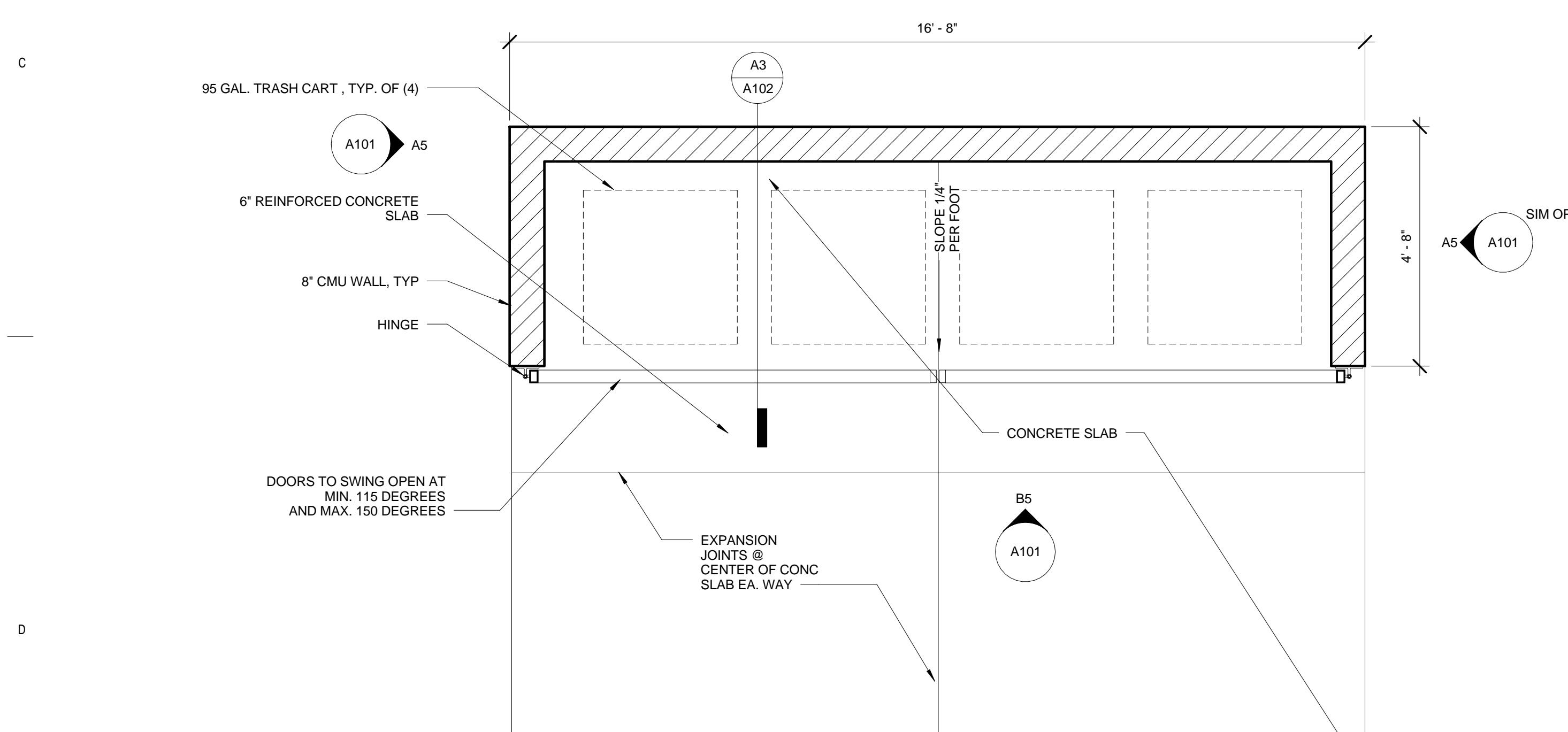
Boise, ID 83702 | (208) 345-1800



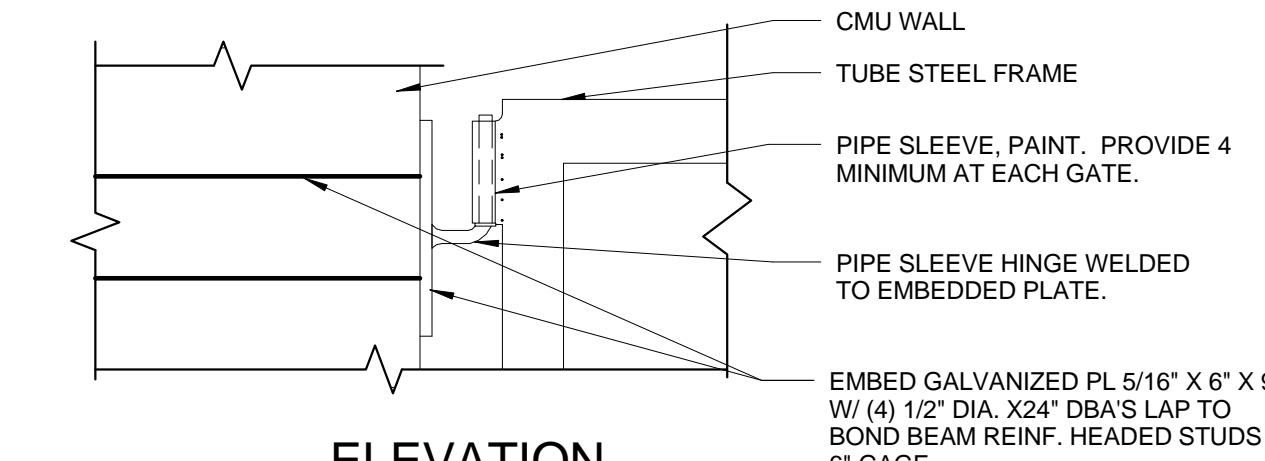
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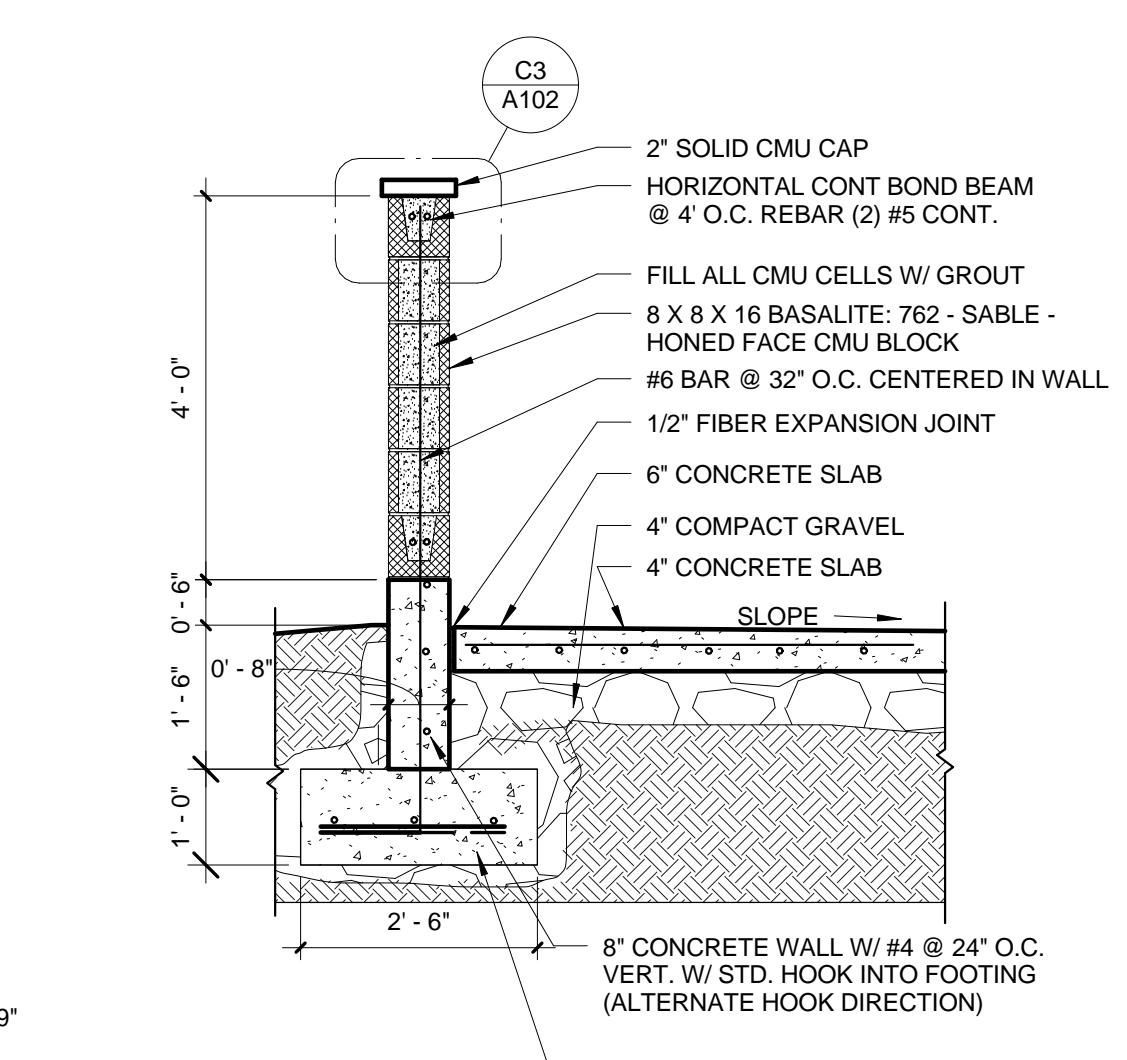
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A3 TRASH ENCLOSURE SECTION  
1/2" = 1'-0"C3 TRASH ENCLOSURE CAP DETAIL  
1 1/2" = 1'-0"

## PLAN

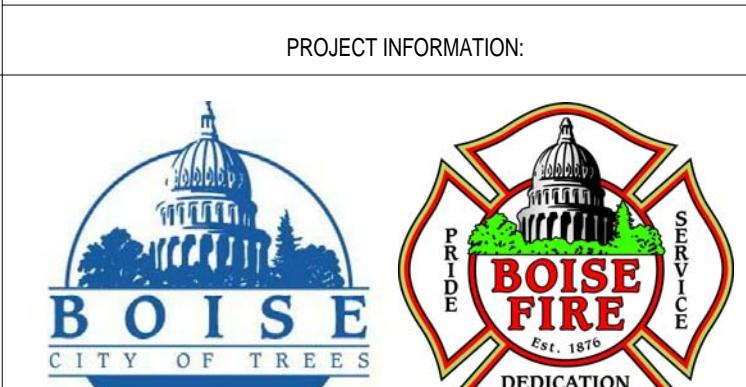


## ELEVATION

D1 TRASH ENCLOSURE WALL DETAIL  
1/2" = 1'-0"

NOT FOR CONSTRUCTION

CONSULTANT:

City of Boise Fire Station 8  
3575 W. Overland Rd. Boise, ID 83705

PROJECT INFORMATION:

REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

PROJECT PHASE 75% CD's

PROJECT NUMBER

15-28

PROJECT MANAGER

R. TeBeau

PROJECT ARCHITECT

R. TeBeau

DESIGN

B. Harris / R. TeBeau

DRAWN BY

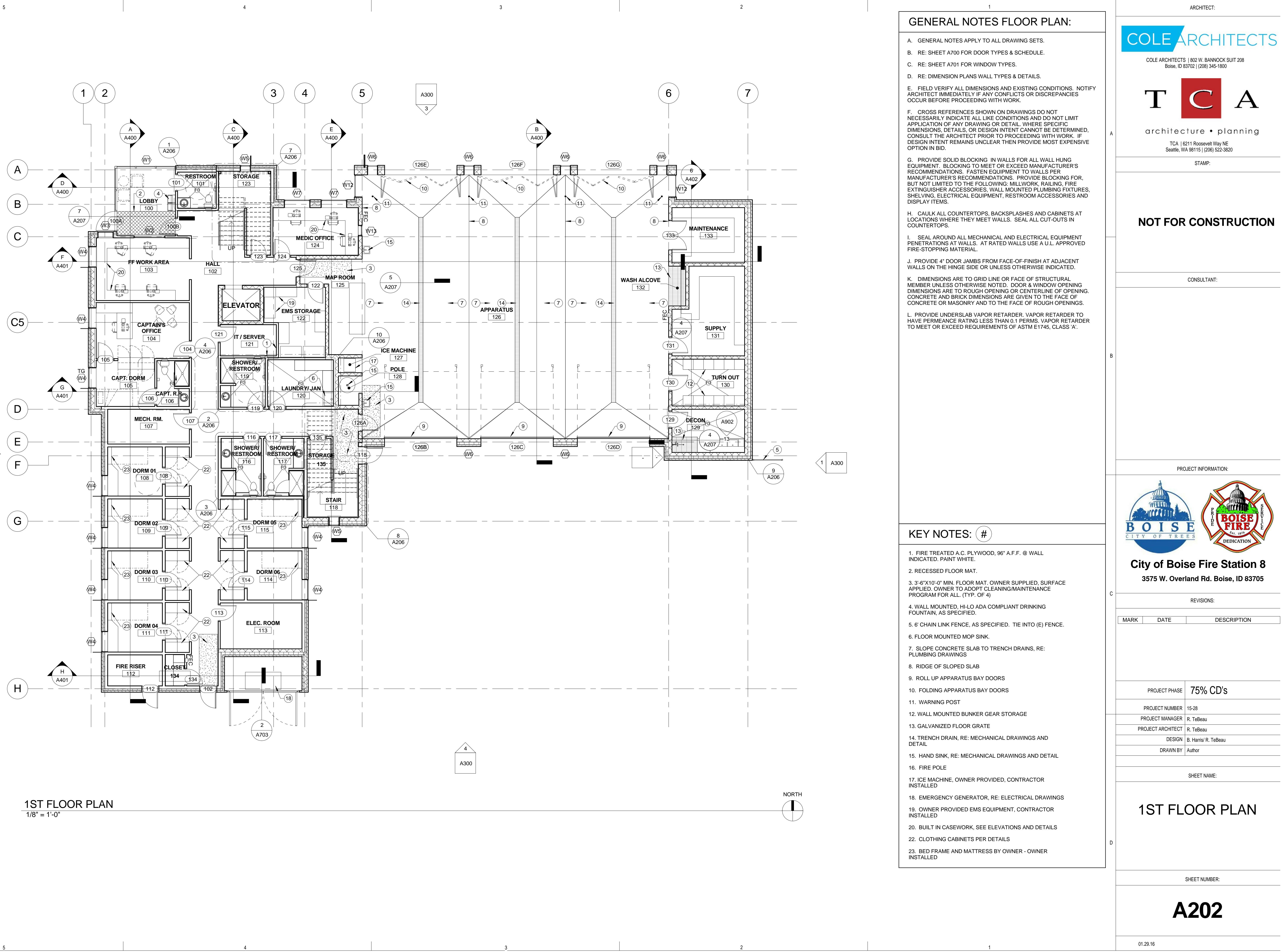
Author

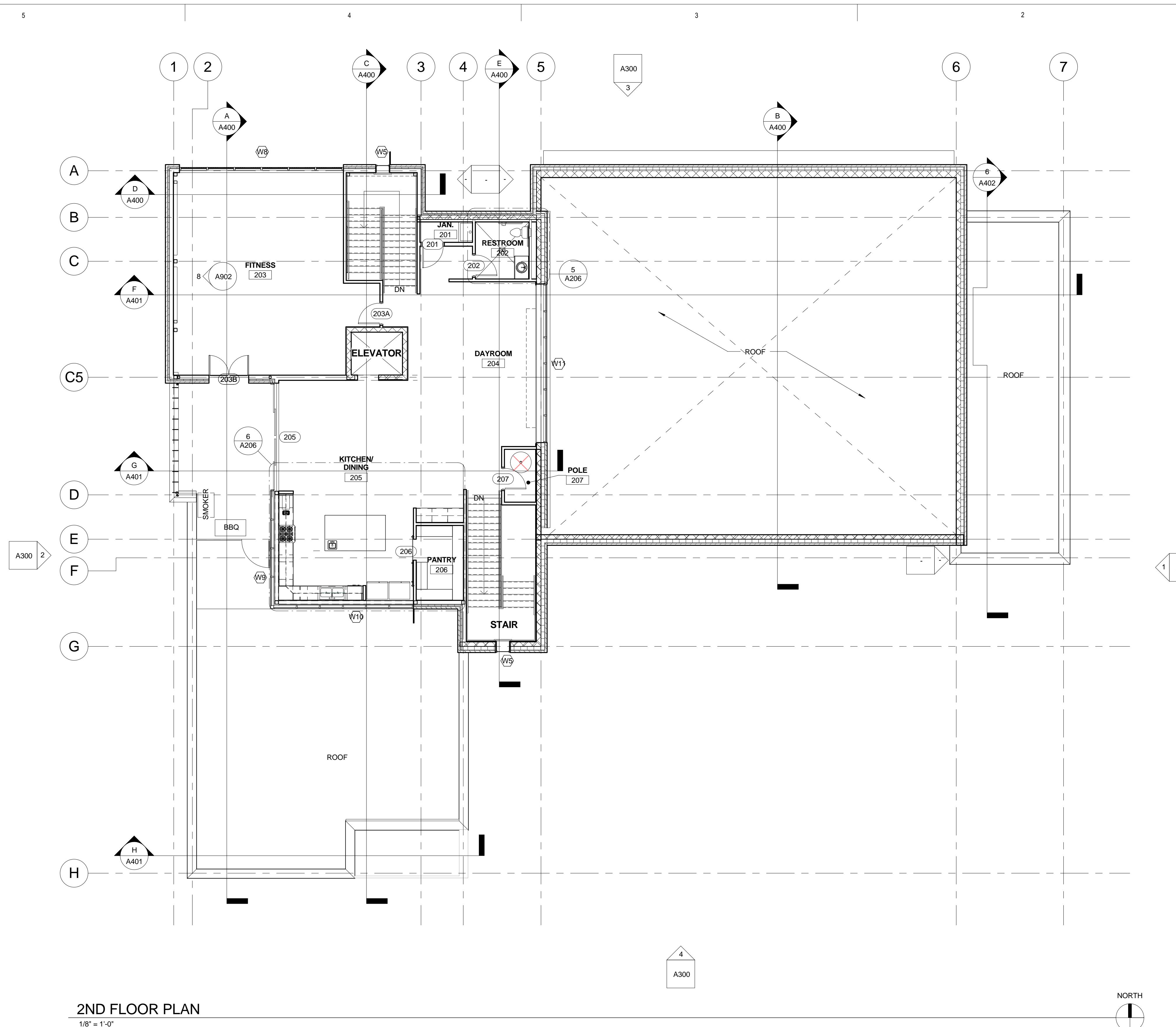
SHEET NAME:

SITE PLAN DETAILS

SHEET NUMBER:

A102





| GENERAL NOTES FLOOR PLAN: |  |
|---------------------------|--|
| A.                        | GENERAL NOTES APPLY TO ALL DRAWING SETS.   |
| B.                        | RE: SHEET A700 FOR DOOR TYPES & SCHEDULE.  |
| C.                        | RE: SHEET A701 FOR WINDOW TYPES.   |
| D.                        | RE: DIMENSION PLANS WALL TYPES & DETAILS.  |
| E.                        | FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY IF ANY CONFLICTS OR DISCREPANCIES OCCUR BEFORE PROCEEDING WITH WORK.   |
| F.                        | CROSS REFERENCES SHOWN ON DRAWINGS DO NOT NECESSARILY STATE ALL LIKE CONDITIONS AND DO NOT LIMIT APPLICATION OF ANY REQUIREMENT THAT IS NOT SPECIFIC TO THE DRAWING. IF A DIMENSION IS NOT SHOWN, THE DIMENSION, DETAILS, OR DESIGN INTENT CANNOT BE DETERMINED. CONSULT THE ARCHITECT PRIOR TO PROCEEDING WITH WORK. IF DESIGN INTENT REMAINS UNCLEAR THEN PROVIDE MOST EXPENSIVE OPTION IN BID.                |
| G.                        | PROVIDE SOLID BLOCKING IN WALLS FOR ALL WALL HUNG EQUIPMENT. BLOCKING MUST MEET OR EXCEED THE MANUFACTURER'S RECOMMENDATIONS LISTED IN THE EQUIPMENT WALLS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE BLOCKING FOR, BUT NOT LIMITED TO THE FOLLOWING: MILLWORK, RAILING, FIRE EXTINGUISHER ACCESSORIES, WALL MOUNTED PLUMBING FIXTURES, SHELVING, ELECTRICAL EQUIPMENT, RESTROOM ACCESSORIES AND DISPLAY ITEMS. |
| H.                        | CAULK ALL COUNTERTOPS, BACKSPASHES AND CABINETS AT LOCATIONS WHERE THEY MEET WALLS. SEAL ALL CUT-OUTS IN COUNTERTOPS.  |
| I.                        | SEAL AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT PENETRATIONS AT WALLS. AT RATED WALLS USE A U.L. APPROVED FIRE-STOPPING MATERIAL.  |
| J.                        | PROVIDE 4" DOOR JAMBS FROM FACE-OF-FINISH AT ADJACENT WALLS ON THE HINGE SIDE OR UNLESS OTHERWISE INDICATED.   |
| K.                        | DIMENSIONS ARE TO GRID LINE OR FACE OF STRUCTURAL MEMBER UNLESS OTHERWISE NOTED. DOOR & WINDOW OPENING DIMENSIONS ARE TO ROUGH OPENING OR CENTERLINE OF OPENING. CONCRETE AND BRICK DIMENSIONS ARE GIVEN TO THE FACE OF CONCRETE OR MASONRY AND TO THE FACE OF ROUGH OPENINGS.   |
| L.                        | PROVIDE UNDERSLAB VAPOR RETARDER. VAPOR RETARDER TO HAVE PERMEANCE RATING LESS THAN 0.1 PERMS. VAPOR RETARDER TO MEET OR EXCEED REQUIREMENTS OF ASTM E1745, CLASS 'A'.   |

#### KEY NOTES: #

1. XXX



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CONSULTANT:

PROJECT INFORMATION:



**City of Boise Fire Station 8**  
3575 W. Overland Rd. Boise, ID 83705

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PROJECT PHASE **75% CD's**

PROJECT NUMBER **15-28**

PROJECT MANAGER **R. TeBeau**

PROJECT ARCHITECT **R. TeBeau**

DESIGN **B. Harris/R. TeBeau**

DRAWN BY **Author**

SHEET NAME:

**2ND FLOOR PLAN**

**A203**

01.29.16

COLE ARCHITECTS

COLE ARCHITECTS | 802 W. BANNOCK SUITE 208  
Boise, ID 83702 | (208) 345-1800TCA  
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CONSULTANT:

PROJECT INFORMATION:

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3575 W. Overland Rd. Boise, ID 83705

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PROJECT PHASE 75% CD's

PROJECT NUMBER 15-28

PROJECT MANAGER R. TeBeau

PROJECT ARCHITECT R. TeBeau

DESIGN B. Harris / R. TeBeau

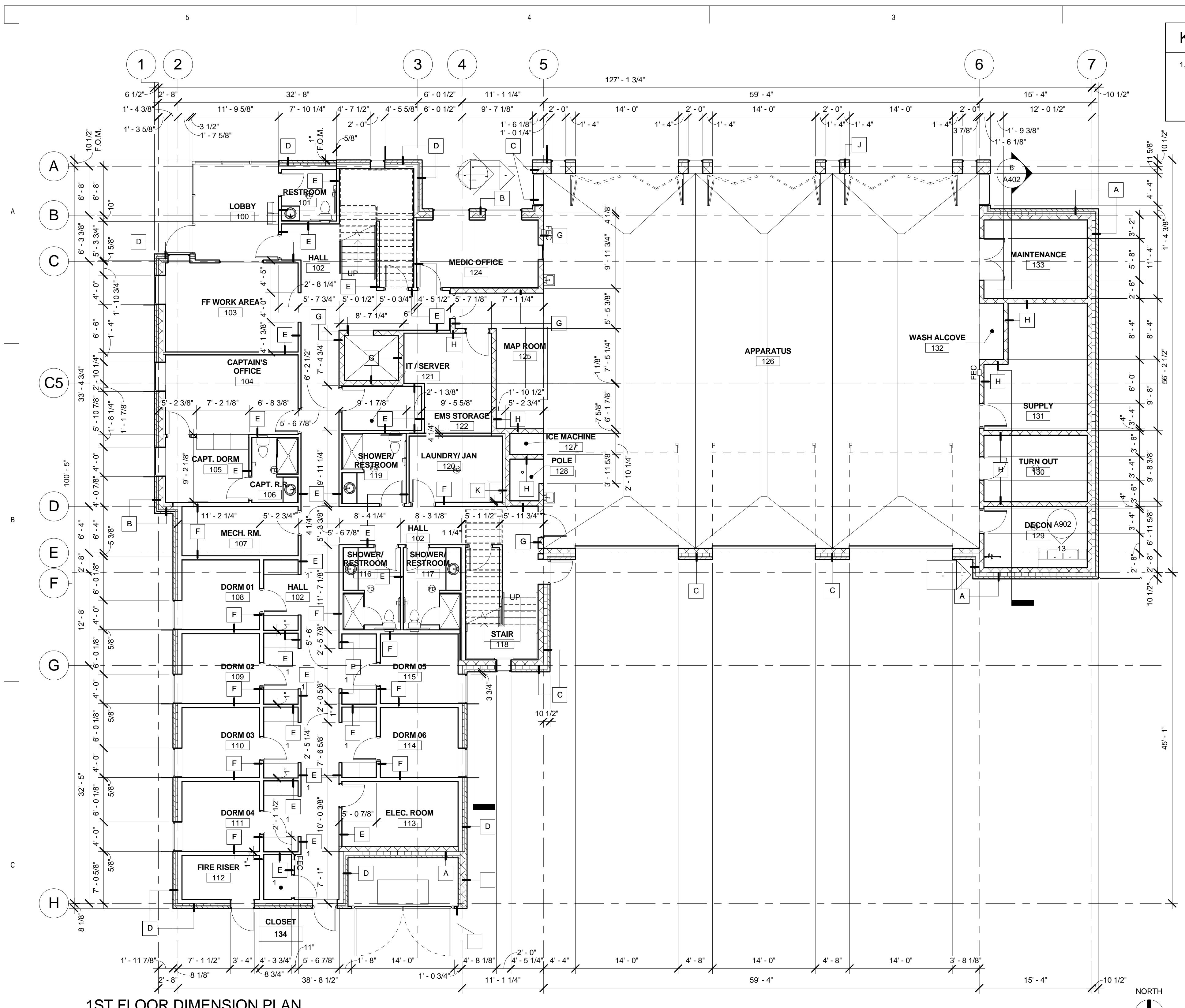
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SHEET NAME:

1ST FLOOR  
DIMENSION PLAN

SHEET NUMBER:

A204



1ST FLOOR DIMENSION PLAN

1/8" = 1'-0"

## KEY NOTES: #

## GENERAL NOTES DIMENSION PLAN:

A. DIMENSIONS ARE TO GRID LINE OR FACE OF STRUCTURAL MEMBER UNLESS OTHERWISE NOTED. DOOR & WINDOW OPENING DIMENSIONS ARE TO ROUGH OPENING OR CENTERLINE OF OPENING. CONCRETE AND BRICK DIMENSIONS ARE GIVEN TO THE FACE OF CONCRETE OR MASONRY AND TO THE FACE OF ROUGH OPENINGS.

B. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS (IF APPLICABLE). CREATE DIMENSION TEMPLATE BEFORE BEGINNING CONSTRUCTION. NOTIFY ARCHITECT IMMEDIATELY IF ANY CONFLICTS OR DISCREPANCIES WITHIN DRAWINGS OCCUR BEFORE PROCEEDING WITH WORK.

C. LAYOUT & INDICATE ALL WALLS ON FLOOR PRIOR TO WALL CONSTRUCTION. IF LAYOUT DIFFERS FROM FLOOR PLAN NOTIFY ARCHITECT IMMEDIATELY FOR DIRECTION.

D. PROVIDE 4" DOOR JAMBS AT ADJACENT WALLS ON THE DOOR'S HINGE SIDE OR UNLESS OTHERWISE INDICATED.

E. REFERENCE STRUCTURAL DRAWINGS FOR ADDITIONAL WALL REQUIREMENTS.



5

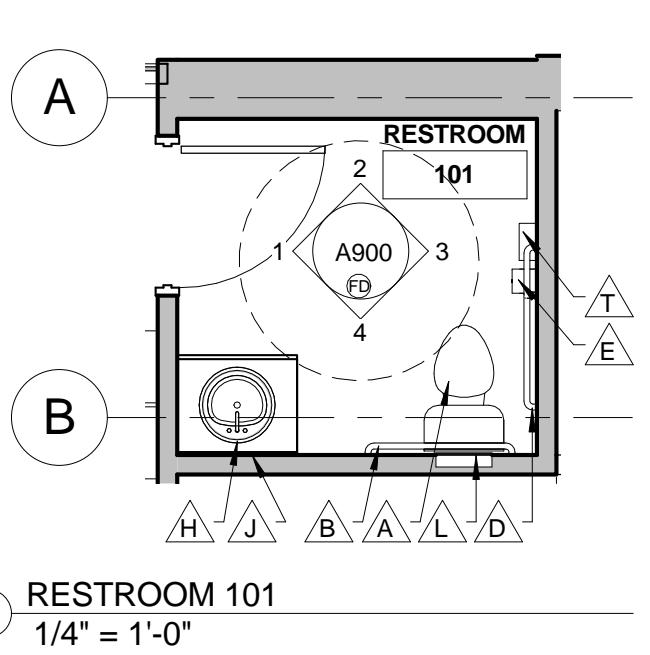
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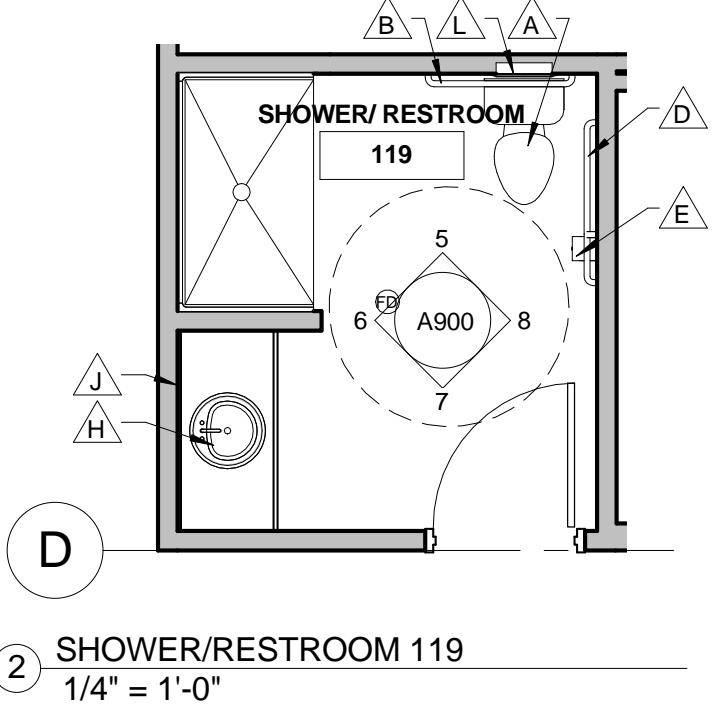
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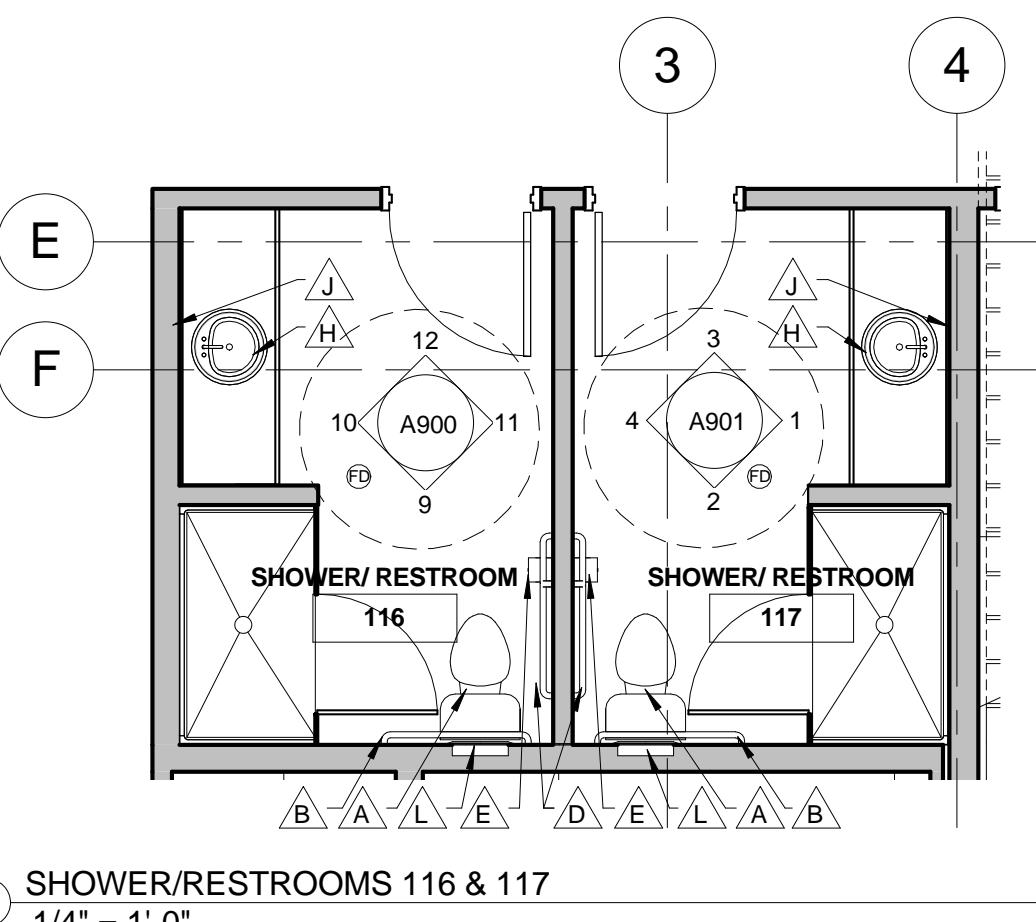
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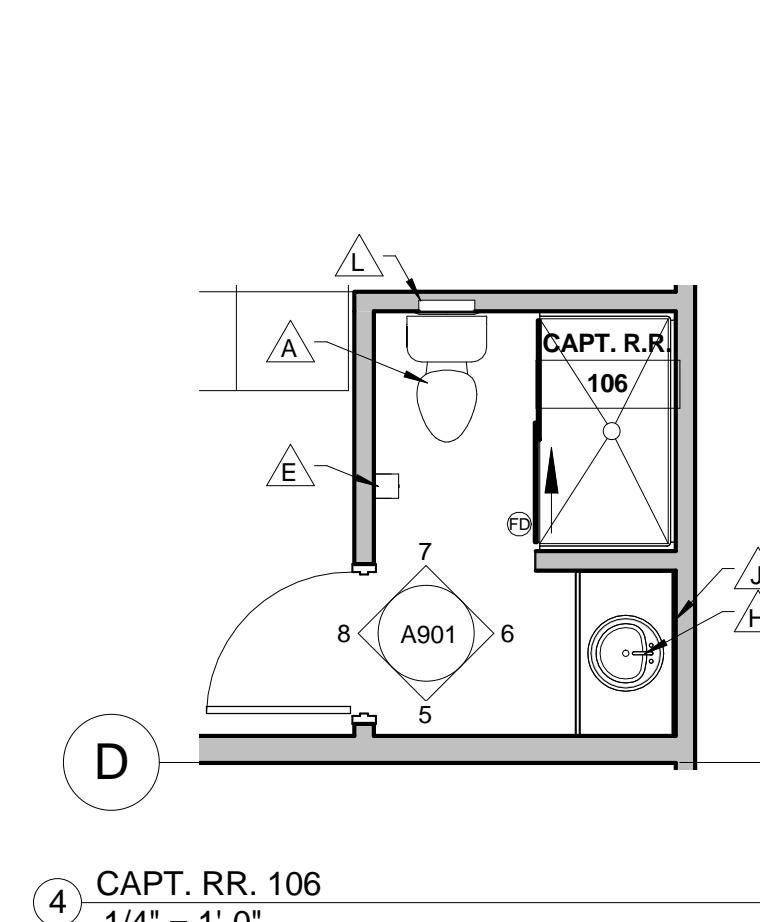
① RESTROOM 101  
1/4" = 1'-0"



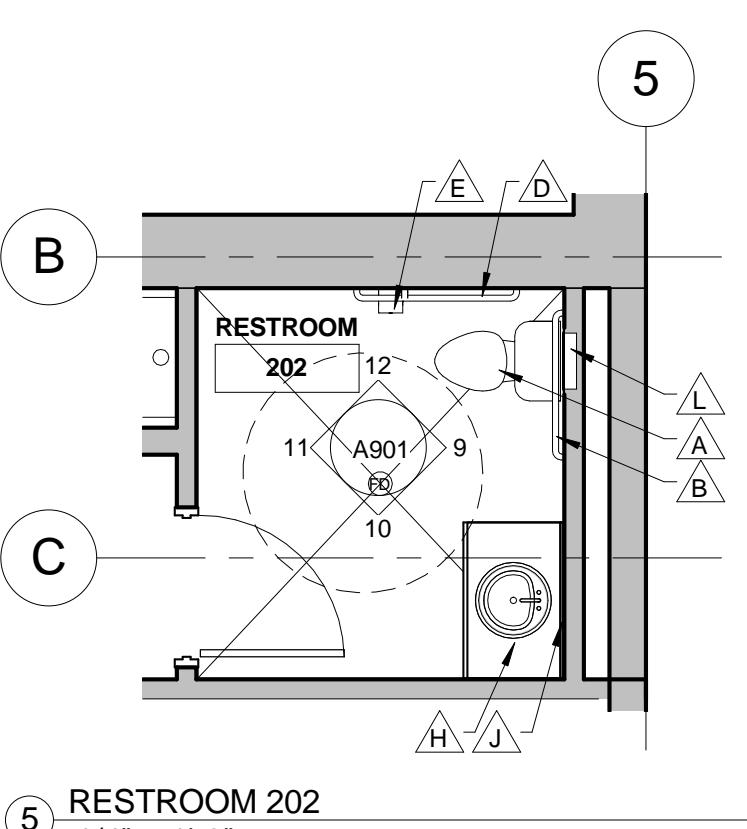
② SHOWER/RESTROOM 119  
1/4" = 1'-0"



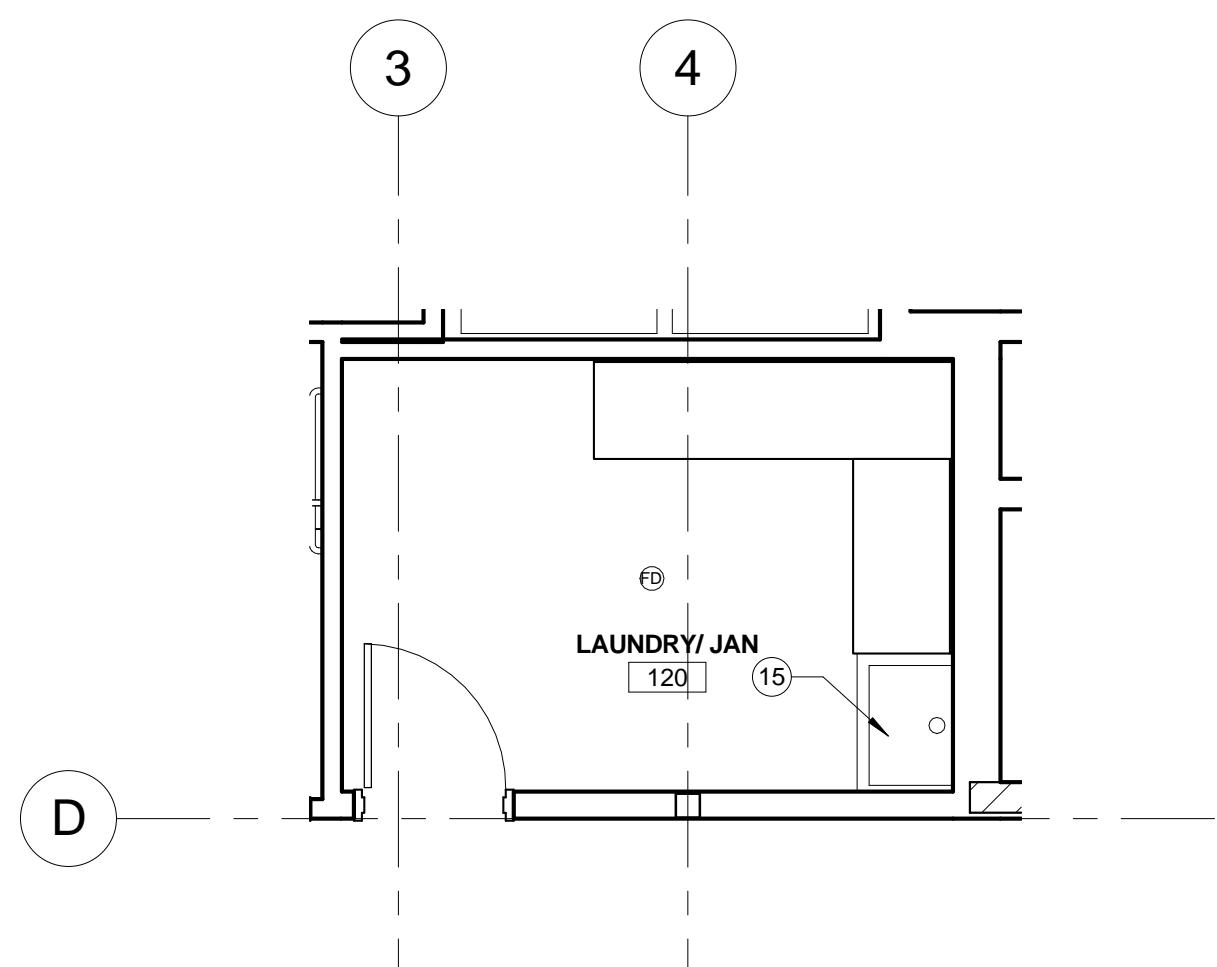
③ SHOWER/RESTROOMS 116 & 117  
1/4" = 1'-0"



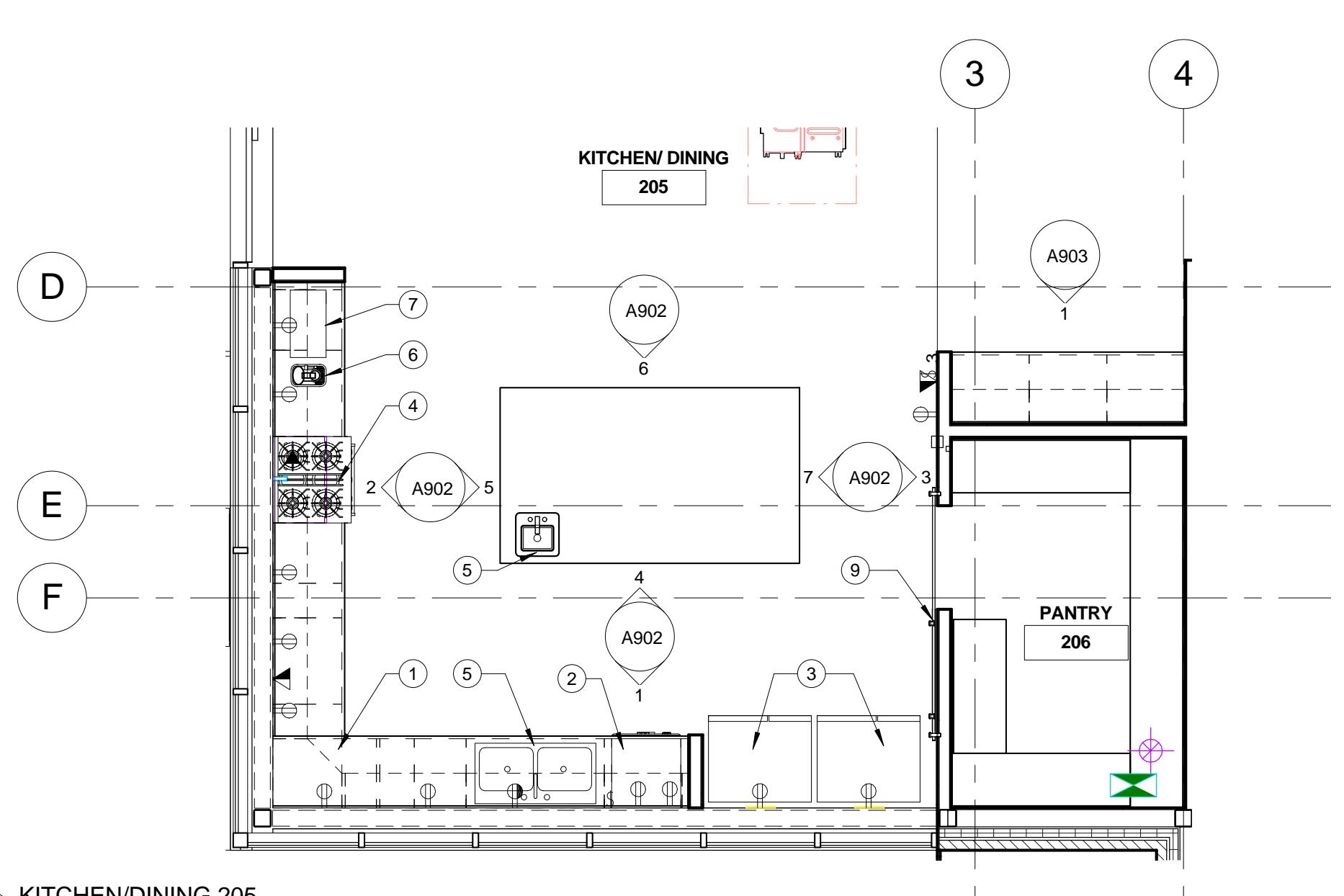
④ CAPT. RR. 106  
1/4" = 1'-0"



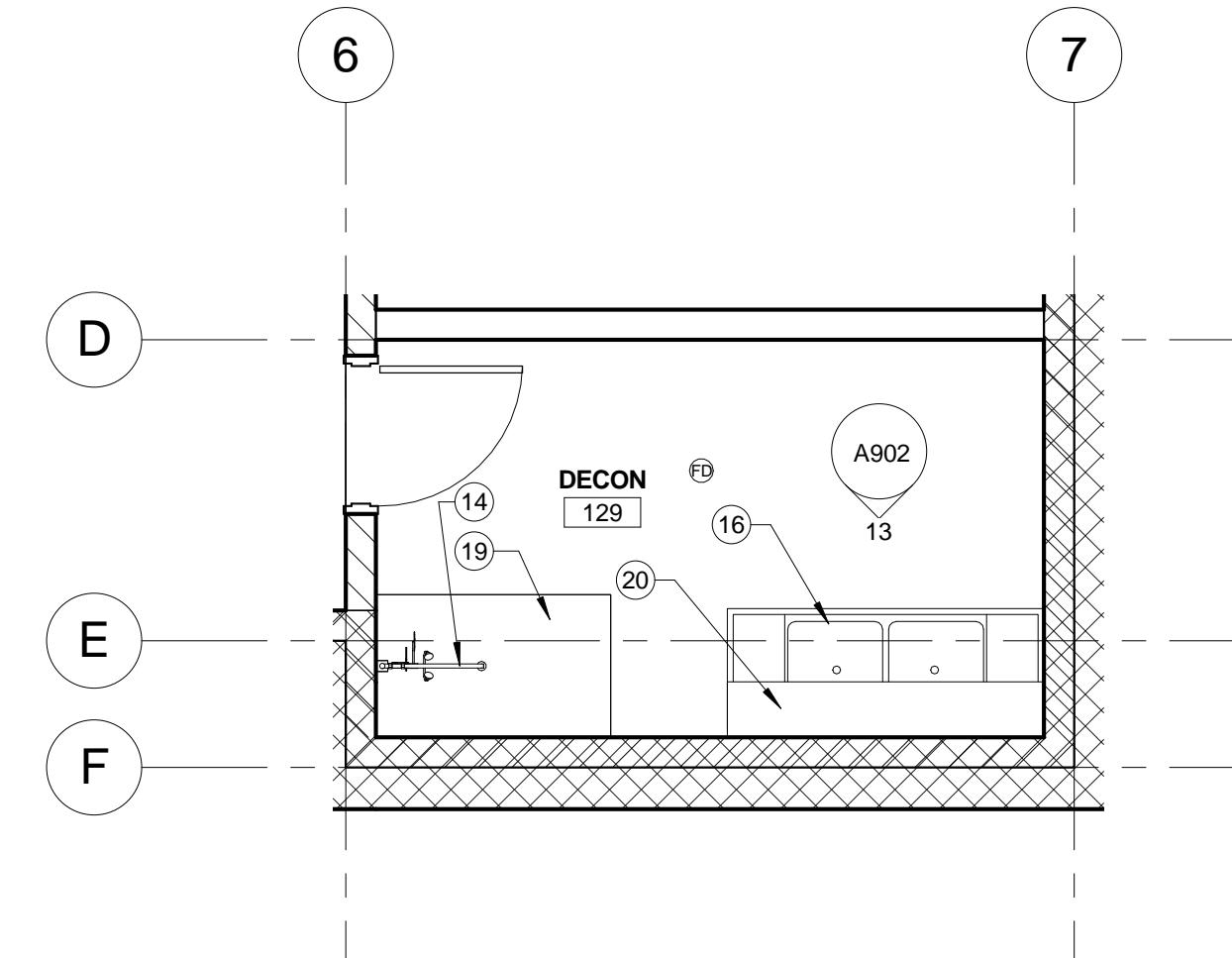
⑤ RESTROOM 202  
1/4" = 1'-0"



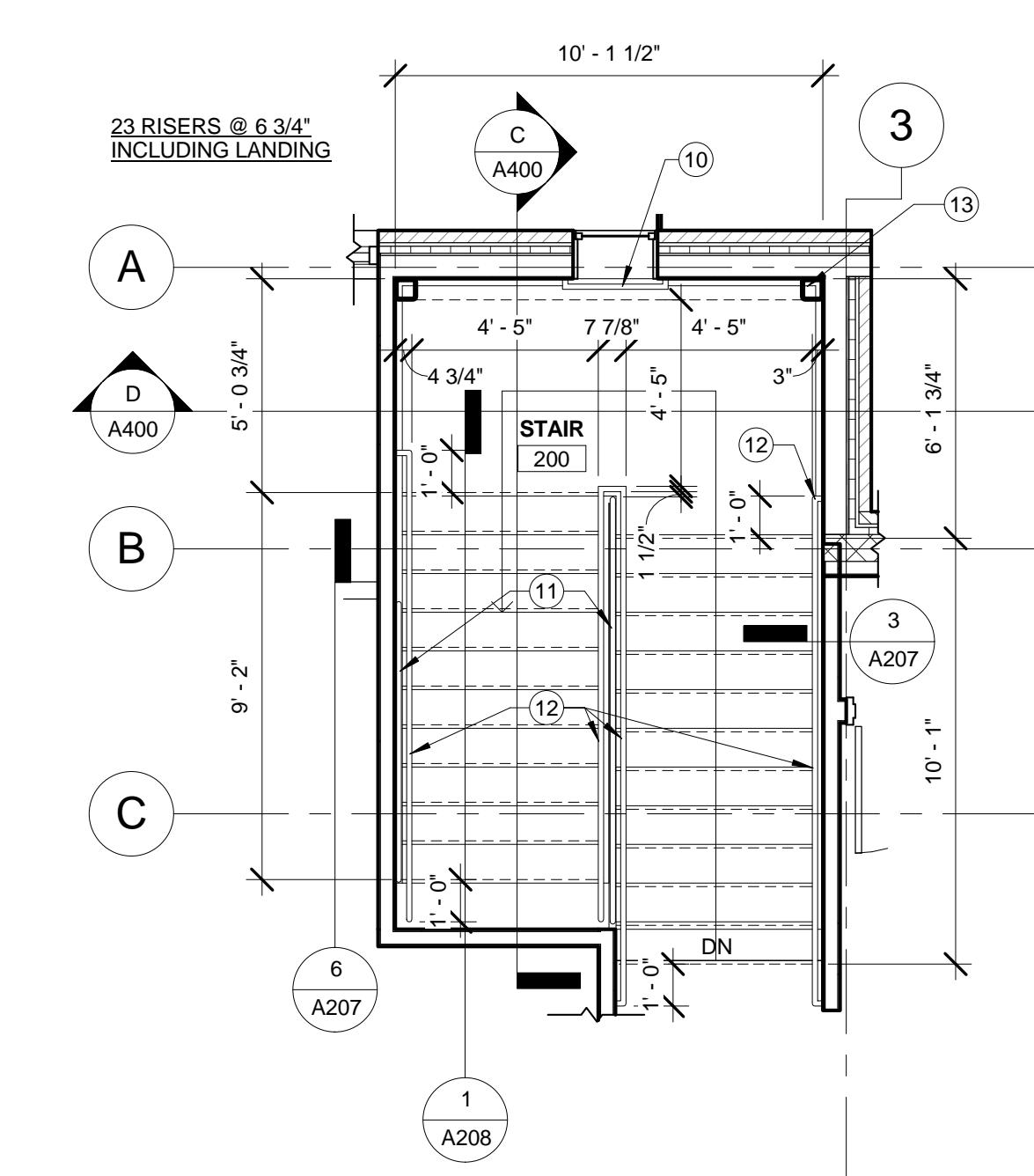
⑩ LAUNDRY/JANITOR 120 FLOOR PLAN  
1/4" = 1'-0"



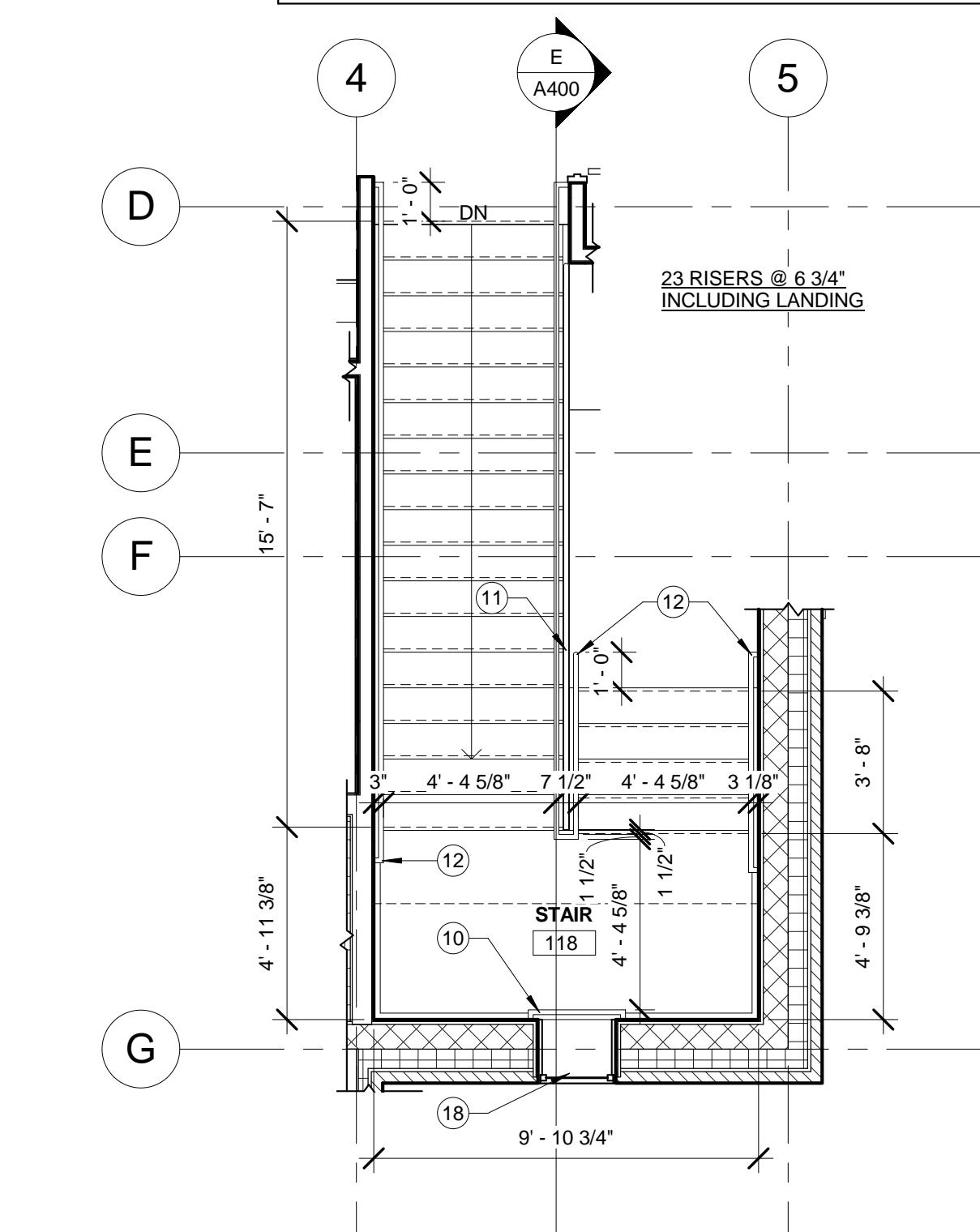
⑥ KITCHEN/DINING 205  
1/4" = 1'-0"



⑨ DECON 129 FLOOR PLAN  
1/4" = 1'-0"



⑦ NORTH STAIR - ENLARGED PLAN  
1/4" = 1'-0"



⑧ SOUTH STAIR - ENLARGED PLAN  
1/4" = 1'-0"

## GENERAL NOTES ENLARGED PLANS:

A. REFERENCE SHEET A900 FOR PLUMBING FIXTURE MOUNTING HEIGHTS.

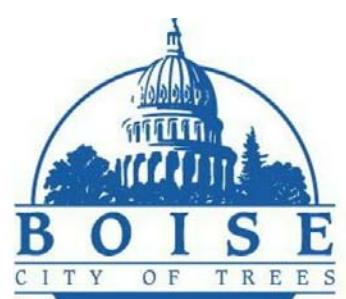
## KEY NOTES: #

1. 36" LAZY SUSAN CORNER CABINET.
2. DISHWASHER.
3. 36" SIDE BY SIDE S.S. REFRIGERATOR.
4. 36" FREESTANDING GAS STOVE/RANGE.
5. STAINLESS STEEL COUNTERTOP W/ INTEGRAL SINK.
6. COFFEE MAKER, BY OWNER.
7. COUNTERTOP MICROWAVE, BY OWNER.
8. EXHAUST HOOD, AS SPECIFIED. MOUNT BASE @ 54" A.F.F.
9. BARN DOOR W/ HANGING RAIL HARDWARE, SEE DOOR SCHEDULE.
10. 42" HIGH WALL MOUNTED GUARD RAIL.
11. 42" HIGH GUARD RAIL.
12. 36" HIGH HANDRAIL.
13. STRUCTURAL BRACED FRAME, RE: STRUCTURAL DWG'S.
14. EMERGENCY SHOWER/EYE WASH STATION.
15. FLOOR MOUNT MOP SINK.
16. 2 BASIN SINK INTEGRAL UNIT.
17. METAL GRATE.
18. WINDOW, PER PLAN.
19. FLOOR GRATE.
20. 14" DP. S.S. WALL MOUNTED SHELF w/ S.S. BRACKETS

NOT FOR CONSTRUCTION

CONSULTANT:

PROJECT INFORMATION:



**City of Boise Fire Station 8**  
3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
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|      |      |             |

PROJECT PHASE 75% CD's

PROJECT NUMBER 15-28

PROJECT MANAGER R. TeBeau

PROJECT ARCHITECT R. TeBeau

DESIGN B. Harris / R. TeBeau

DRAWN BY M. Joseph

SHEET NAME:

ENLARGED PLANS

SHEET NUMBER:

**A206**



**City of Boise Fire Station 8**  
3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

PROJECT PHASE 75% CD's

PROJECT NUMBER 15-28

PROJECT MANAGER R. TeBeau

PROJECT ARCHITECT R. TeBeau

DESIGN B. Harris / R. TeBeau

DRAWN BY M. Joseph

SHEET NAME:

ENLARGED PLANS

SHEET NUMBER:

**A206**



**City of Boise Fire Station 8**  
3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

PROJECT PHASE 75% CD's

PROJECT NUMBER 15-28

PROJECT MANAGER R. TeBeau

PROJECT ARCHITECT R. TeBeau

DESIGN B. Harris / R. TeBeau

DRAWN BY M. Joseph

SHEET NAME:

ENLARGED PLANS

SHEET NUMBER:

**A206**



**City of Boise Fire Station 8**  
3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

PROJECT PHASE 75% CD's

PROJECT NUMBER 15-28

PROJECT MANAGER R. TeBeau

PROJECT ARCHITECT R. TeBeau

DESIGN B. Harris / R. TeBeau

DRAWN BY M. Joseph

SHEET NAME:

ENLARGED PLANS

SHEET NUMBER:

**A206**



**COLE ARCHITECTS**

COLE ARCHITECTS | 802 W. BANNOCK SUIT 208  
Boise, ID 83702 | (208) 345-1800



A  
architecture • planning  
TCA | 8211 Roosevelt Way NE  
Seattle, WA 98115 | (206) 522-3520

STAMP:

**NOT FOR CONSTRUCTION**

CONSULTANT:

PROJECT INFORMATION:



**City of Boise Fire Station 8**  
3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

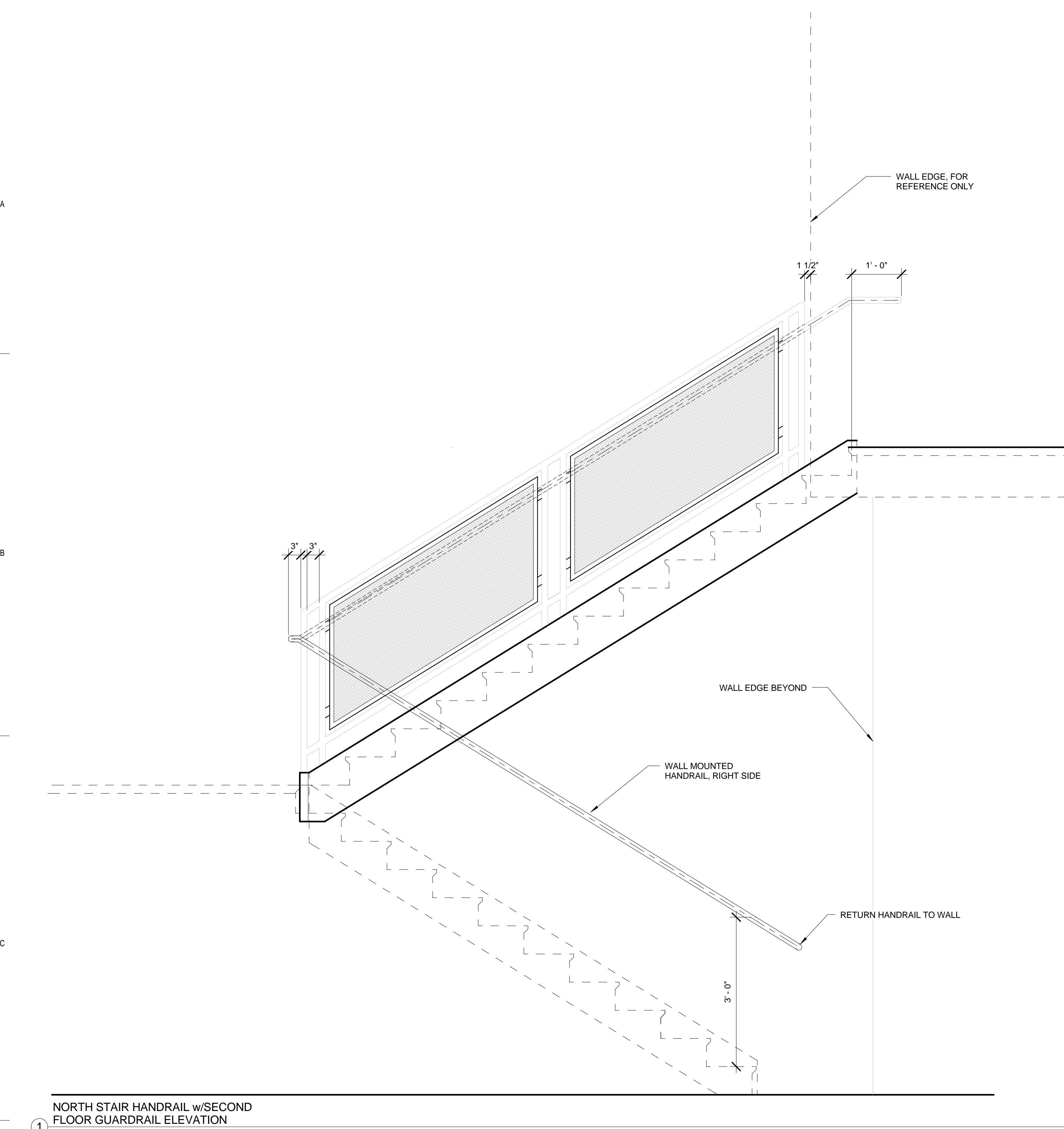
| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

|                   |                      |
|-------------------|----------------------|
| PROJECT PHASE     | 75% CD's             |
| PROJECT NUMBER    | 15-28                |
| PROJECT MANAGER   | R. TeBeau            |
| PROJECT ARCHITECT | R. TeBeau            |
| DESIGN            | B. Harris/ R. TeBeau |
| DRAWN BY          | Author               |
| SHEET NAME:       |                      |

## DETAILS

|               |  |
|---------------|--|
| D             |  |
| SHEET NUMBER: |  |

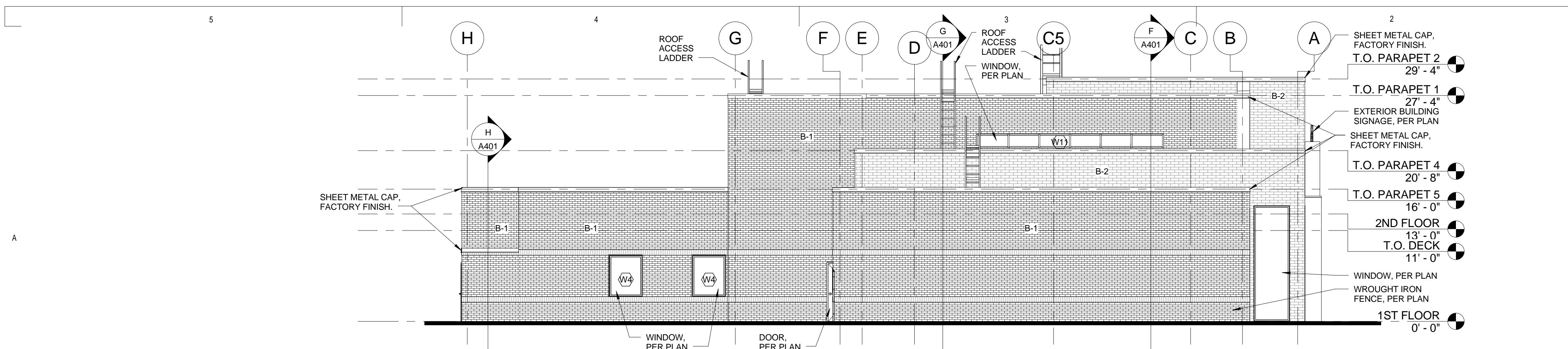
**A208**





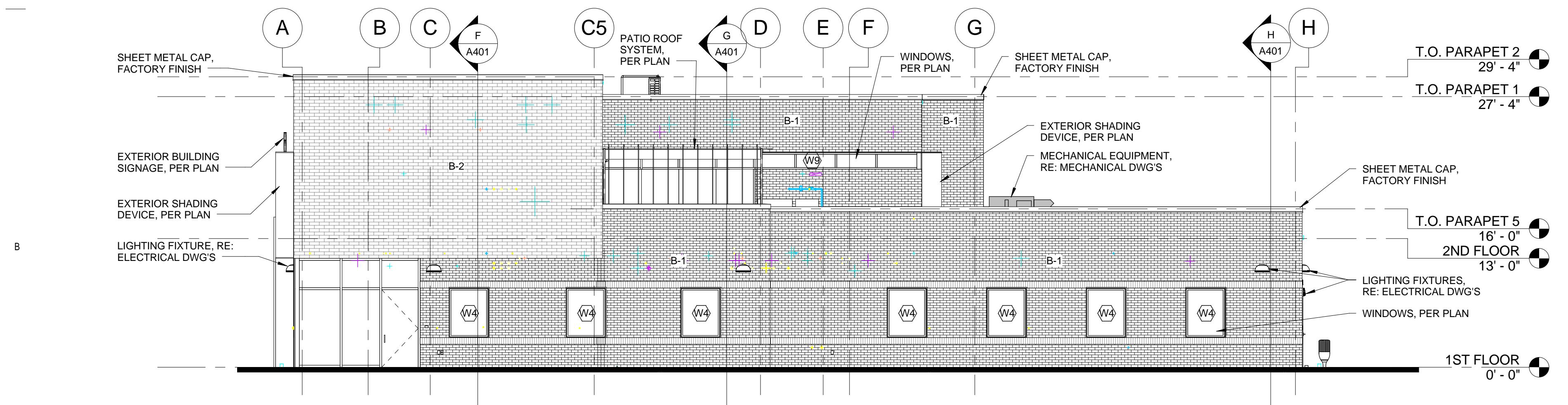
## GENERAL NOTES EXT. ELEVATIONS:

- A. GENERAL NOTES APPLY TO ALL DRAWING SETS.
- B. RE: SHEET A700 FOR DOOR TYPES & SCHEDULE.
- C. RE: SHEET A701 FOR WINDOW TYPES.
- D. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY IF ANY CONFLICTS OR DISCREPANCIES OCCUR BEFORE PROCEEDING WITH WORK.
- E. CROSS REFERENCES SHOWN ON DRAWINGS DO NOT NECESSARILY INDICATE ALL LIKE CONDITIONS AND DO NOT LIMIT APPLICATION OF ANY DRAWING OR DETAIL. WHERE SPECIFIC DIMENSIONS, DETAILS, OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ARCHITECT PRIOR TO PROCEEDING WITH WORK. IF DESIGN INTENT REMAINS UNCLEAR THEN PROVIDE MOST EXPENSIVE OPTION IN BID.
- F. DIMENSIONS ARE TO GRID LINE OR FACE OF STRUCTURAL MEMBER UNLESS OTHERWISE NOTED. DOOR & WINDOW OPENING DIMENSIONS ARE TO ROUGH OPENING OR CENTERLINE OF OPENING. CONCRETE AND BRICK DIMENSIONS ARE GIVEN TO THE FACE OF CONCRETE OR MASONRY AND TO THE FACE OF ROUGH OPENINGS.



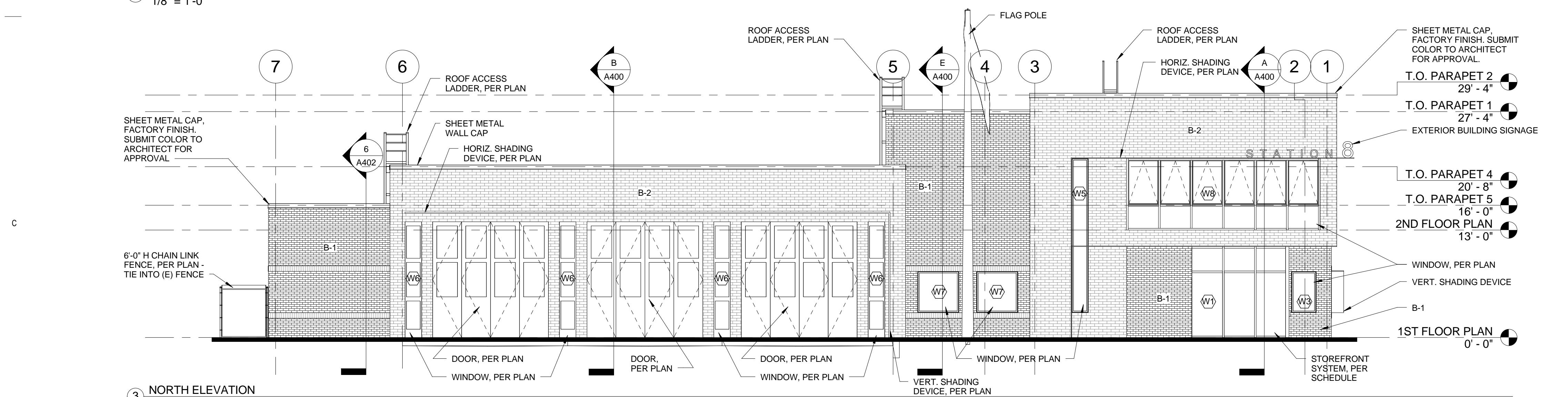
① EAST ELEVATION

1/8" = 1'-0"



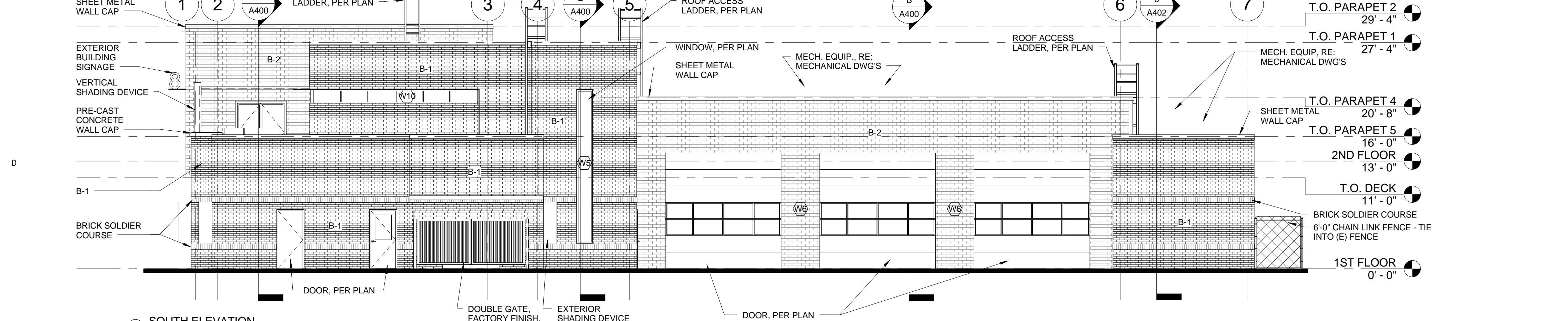
② WEST ELEVATION

1/8" = 1'-0"



③ NORTH ELEVATION

1/8" = 1'-0"



④ SOUTH ELEVATION

1/8" = 1'-0"

## NOT FOR CONSTRUCTION

CONSULTANT:

B

PROJECT INFORMATION:



City of Boise Fire Station 8

3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

PROJECT PHASE 75% CD's

|                   |                       |
|-------------------|-----------------------|
| PROJECT NUMBER    | 15-28                 |
| PROJECT MANAGER   | R. TeBeau             |
| PROJECT ARCHITECT | R. TeBeau             |
| DESIGN            | B. Harris / R. TeBeau |
| DRAWN BY          | Author                |

SHEET NAME:

## EXTERIOR ELEVATIONS

D

SHEET NUMBER:

A300

01.29.16

1

1

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## NOT FOR CONSTRUCTION

CONSULTANT:

PROJECT INFORMATION:



**City of Boise Fire Station 8**  
3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|------|------|-------------|

PROJECT PHASE:

75% CD's

PROJECT NUMBER:

15-28

PROJECT MANAGER:

R. TeBeau

PROJECT ARCHITECT:

R. TeBeau

DESIGN:

B. Harris / R. TeBeau

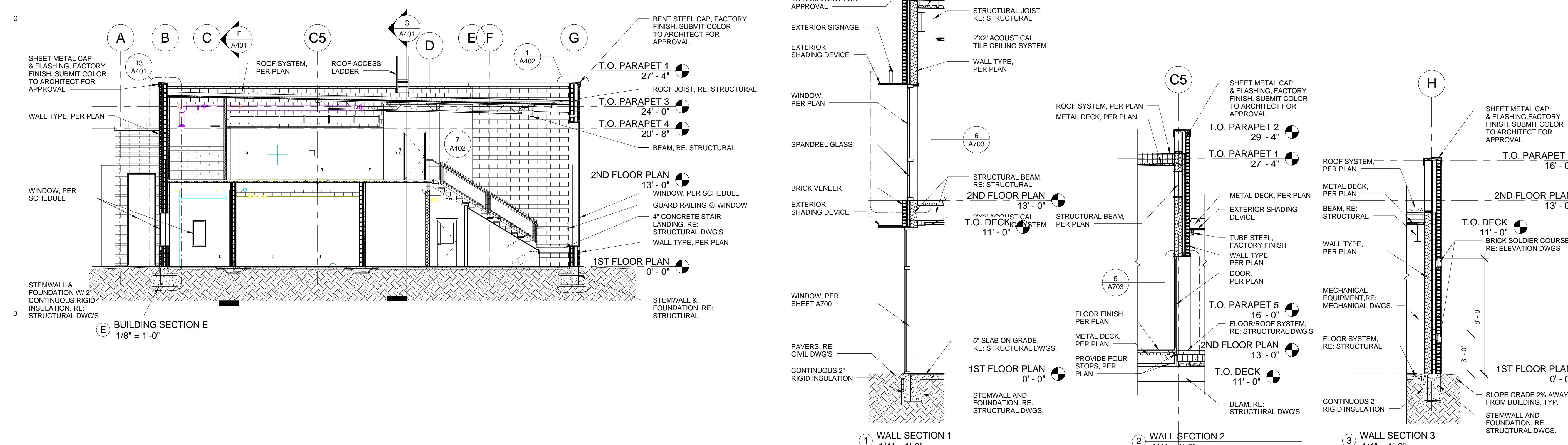
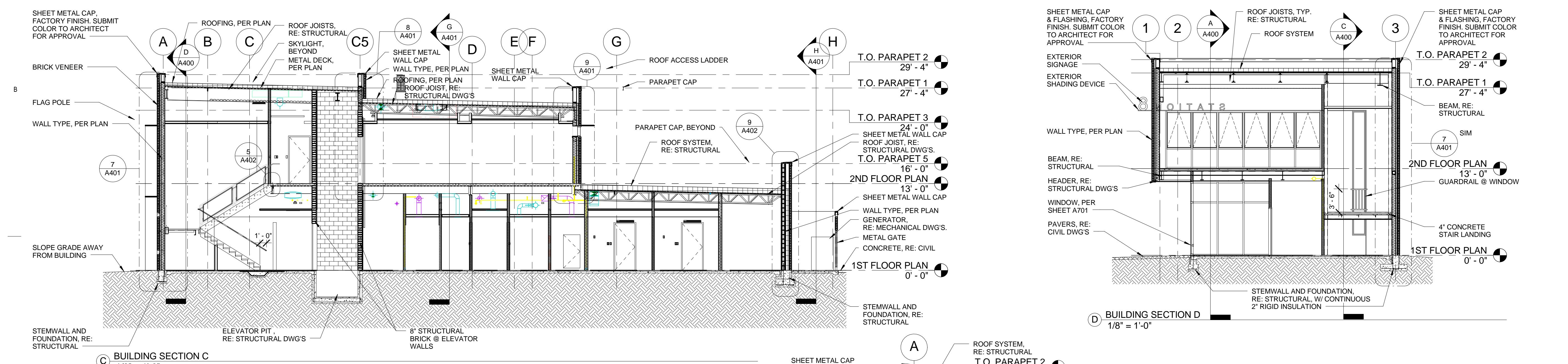
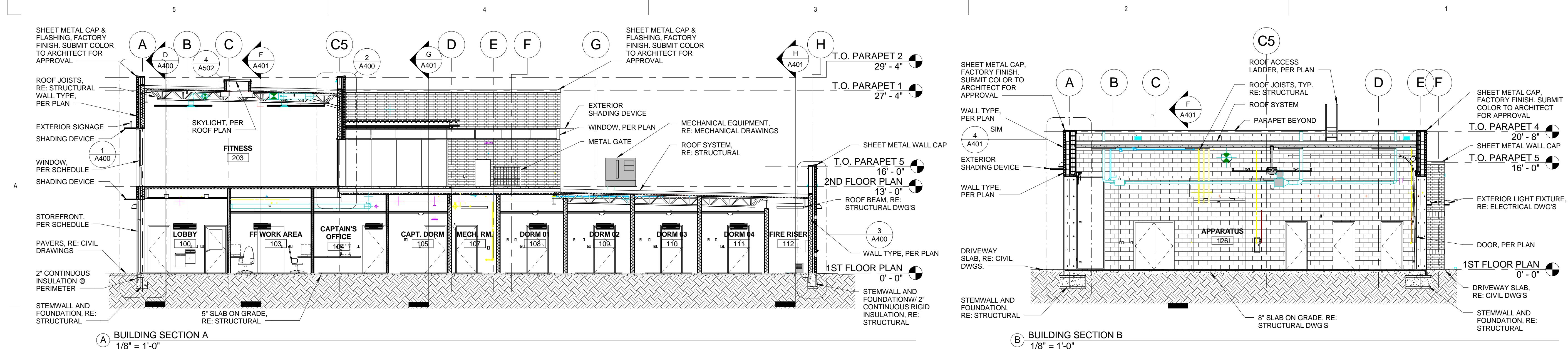
DRAWN BY:

R. TeBeau

SHEET NAME:

## BUILDING &amp; WALL SECTIONS

SHEET NUMBER:

**A400**

NOT FOR CONSTRUCTION

CONSULTANT:

PROJECT INFORMATION:



## City of Boise Fire Station 8

3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
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PROJECT PHASE: 75% CD's

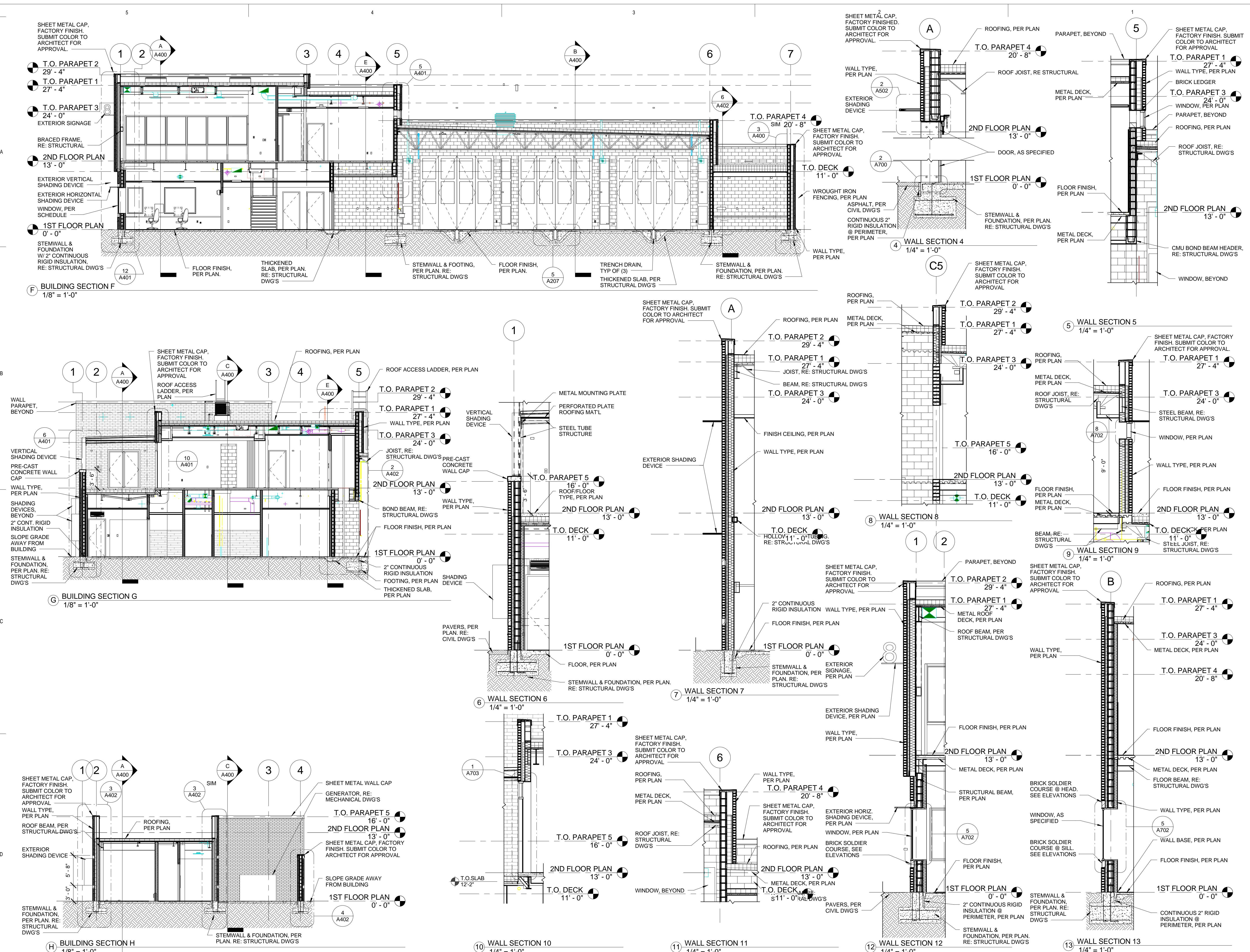
|                   |                       |
|-------------------|-----------------------|
| PROJECT NUMBER    | 15-28                 |
| PROJECT MANAGER   | R. TeBeau             |
| PROJECT ARCHITECT | R. TeBeau             |
| DESIGN            | B. Harris / R. TeBeau |
| DRAWN BY          | Author                |

SHEET NAME:

## BUILDING &amp; WALL SECTIONS

A401

01.29.16





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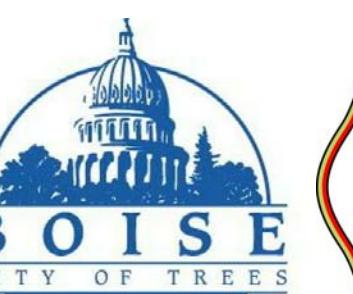
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Seattle, WA 98115 | (206) 522-3520

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## NOT FOR CONSTRUCTION

CONSULTANT:

PROJECT INFORMATION:

City of Boise Fire Station 8  
3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

PROJECT PHASE:

75% CD's

PROJECT NUMBER:

15-28

PROJECT MANAGER:

R. TeBeau

PROJECT ARCHITECT:

R. TeBeau

DESIGN:

B. Harris/R. TeBeau

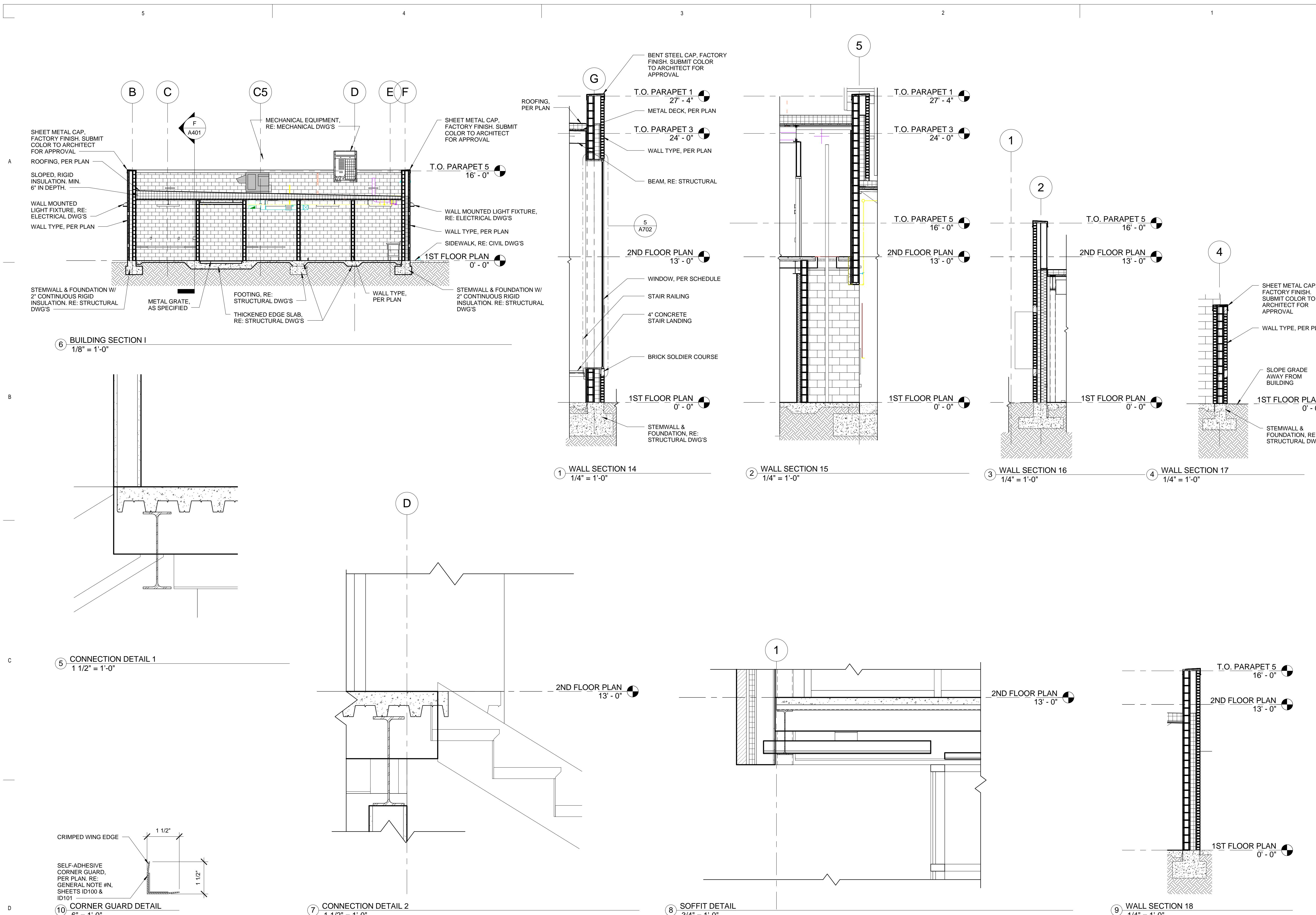
DRAWN BY:

Author

SHEET NAME:

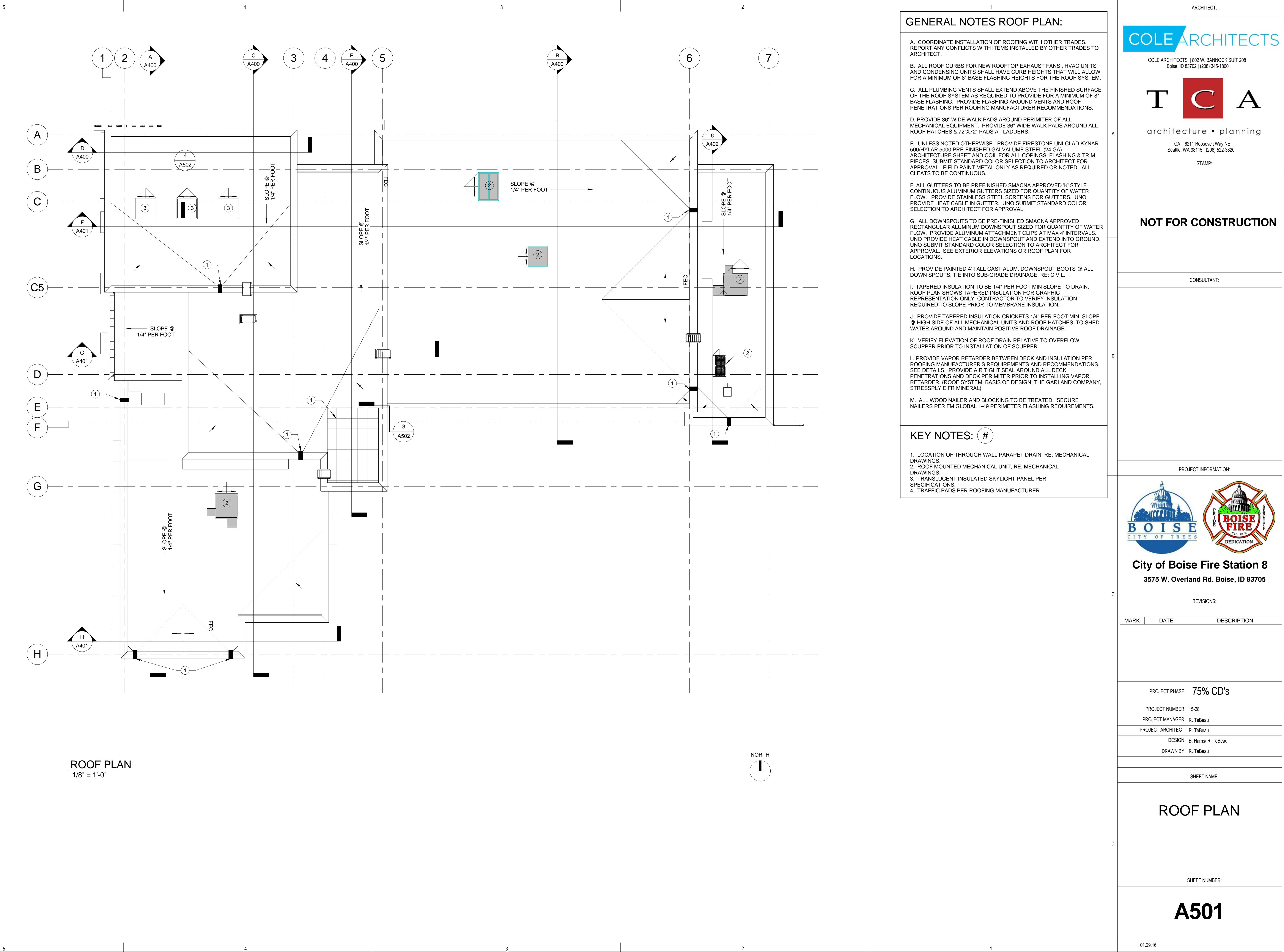
SHEET NUMBER:

A402



## WALL SECTIONS &amp; DETAILS

SHEET NUMBER:







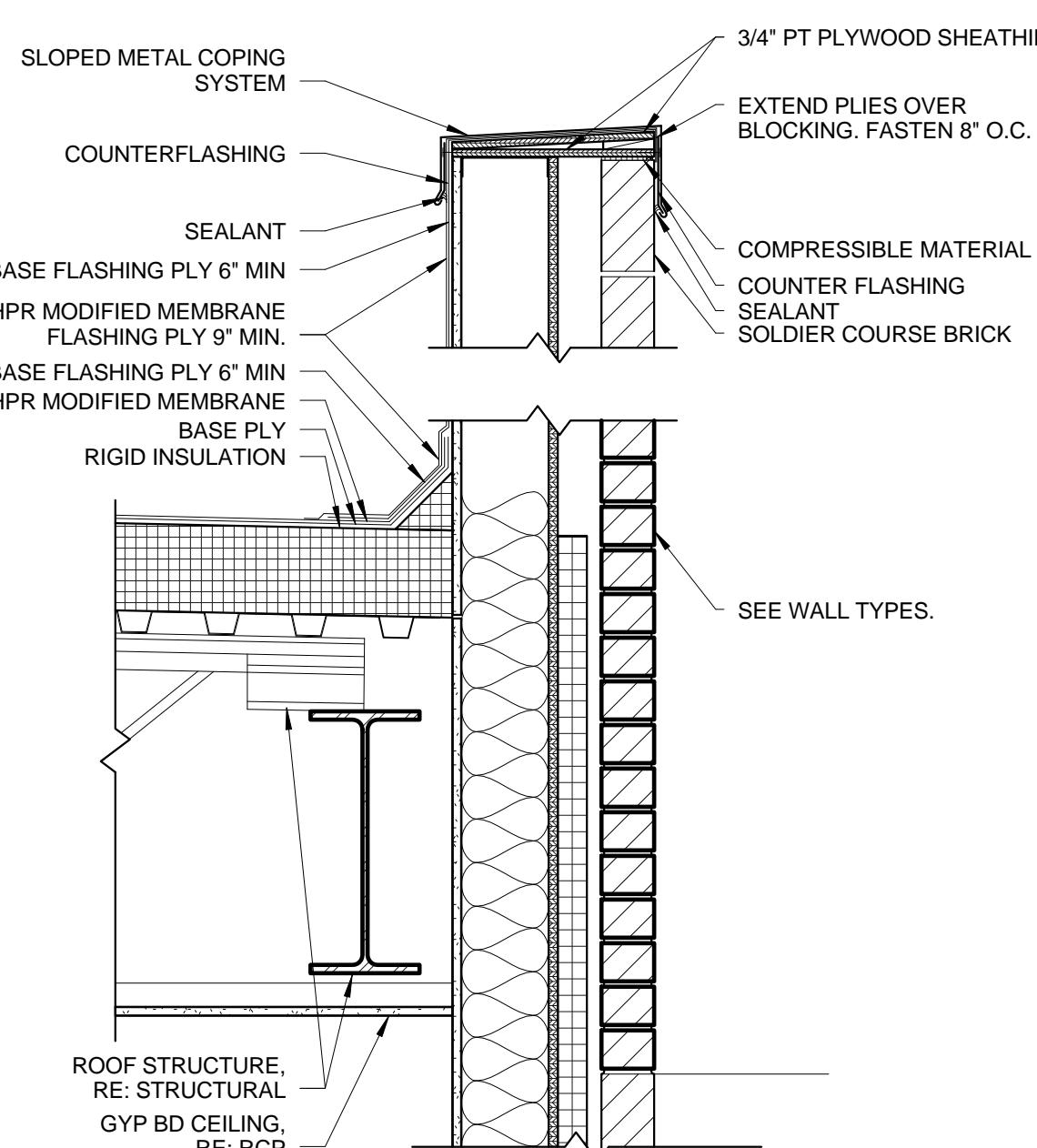
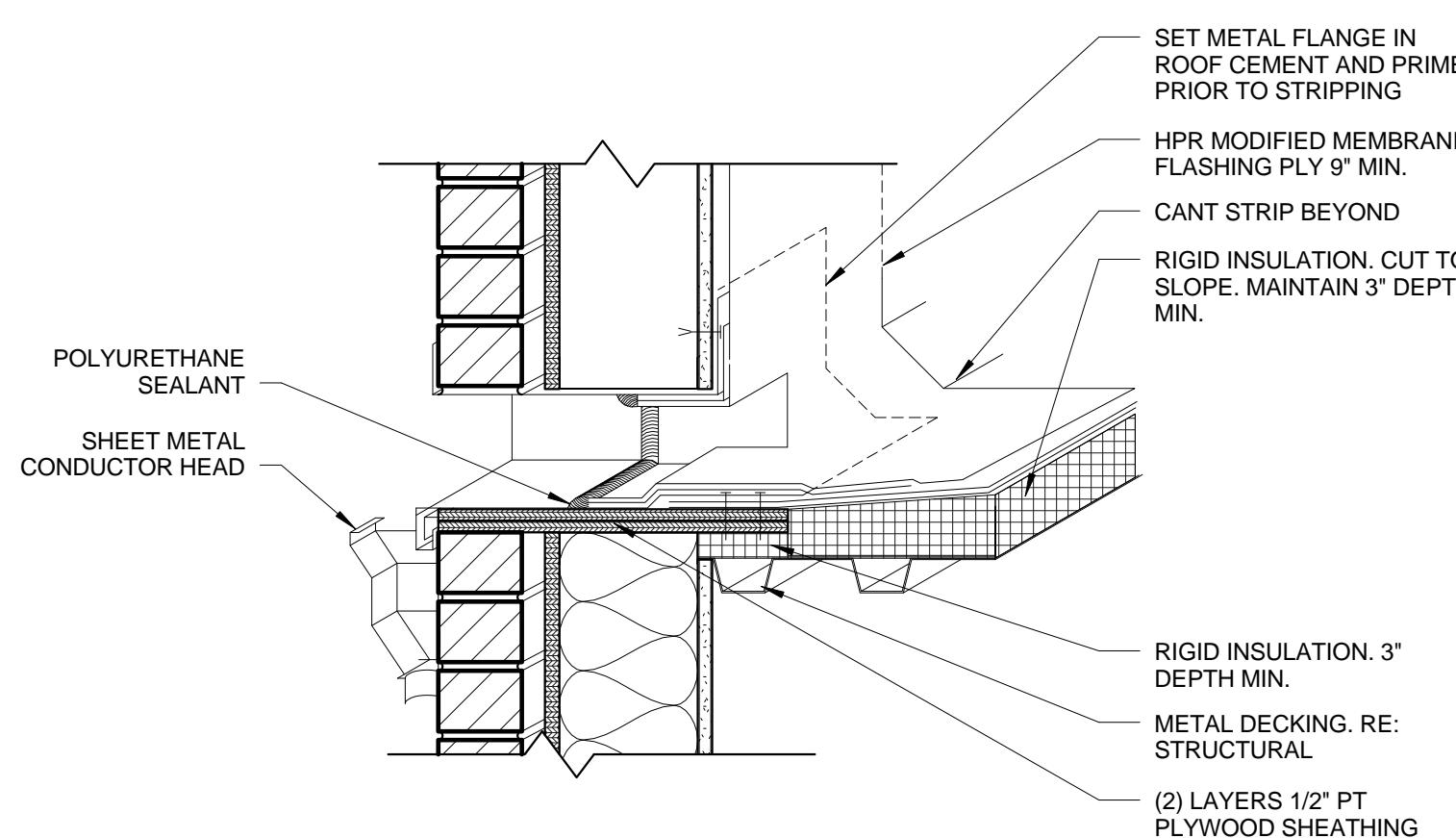
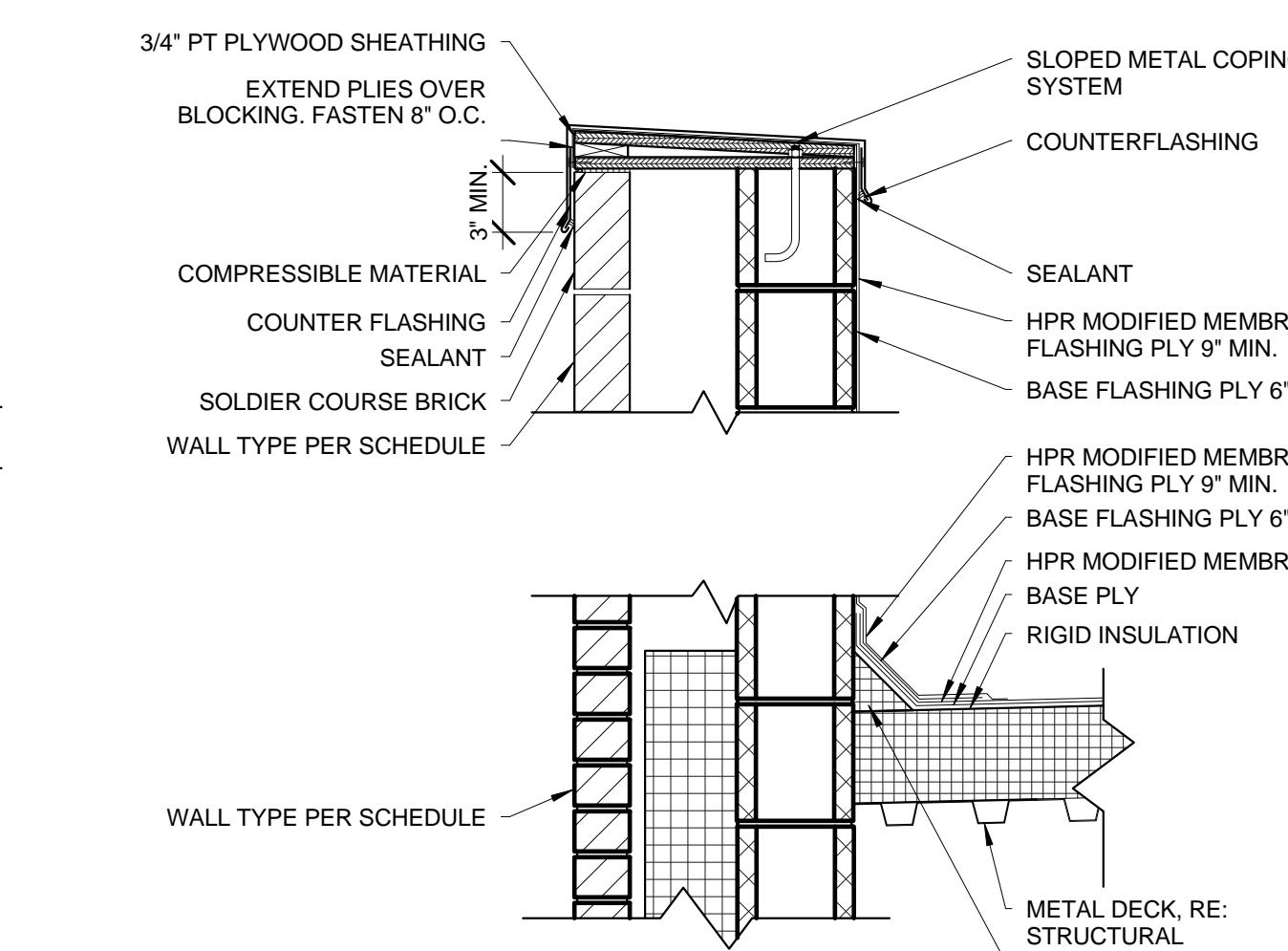
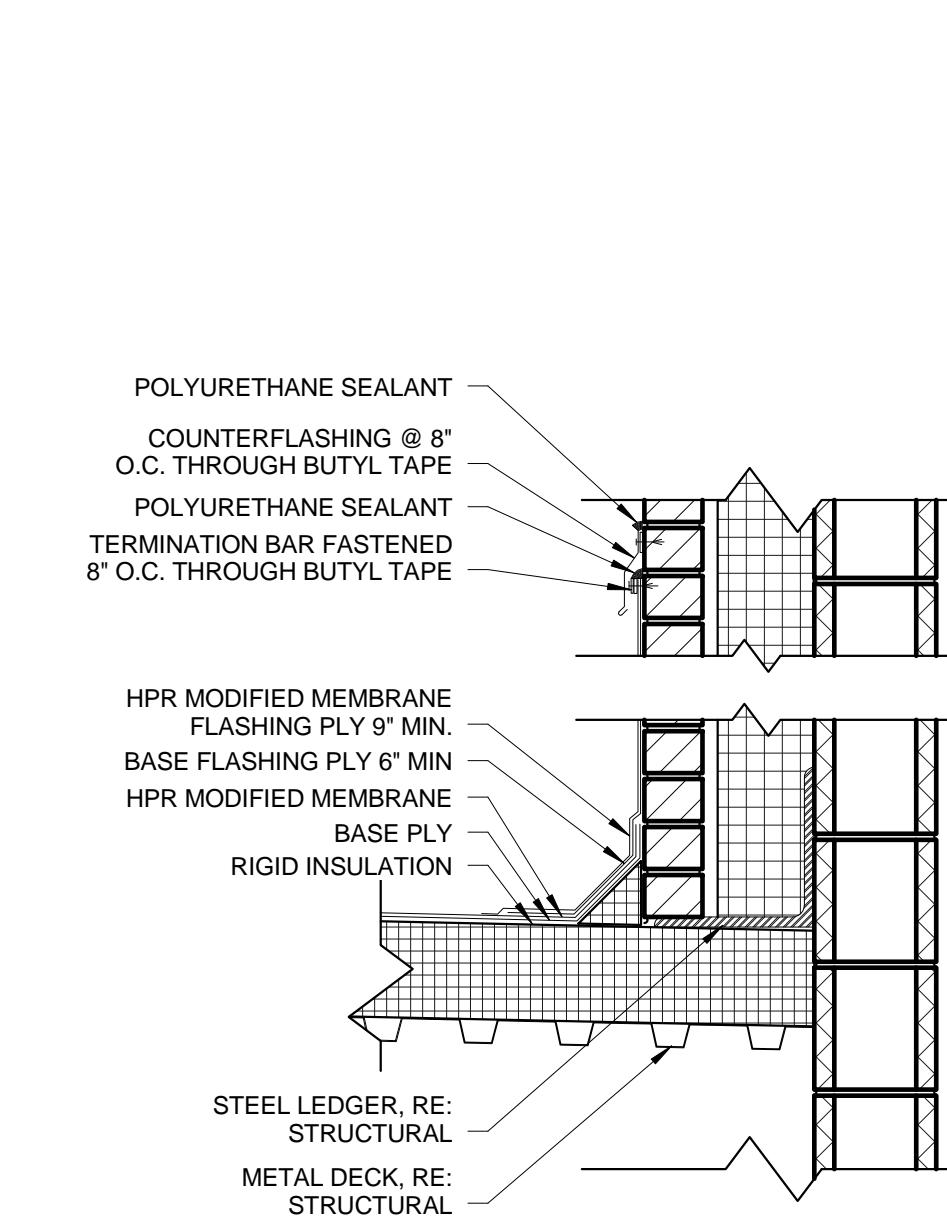
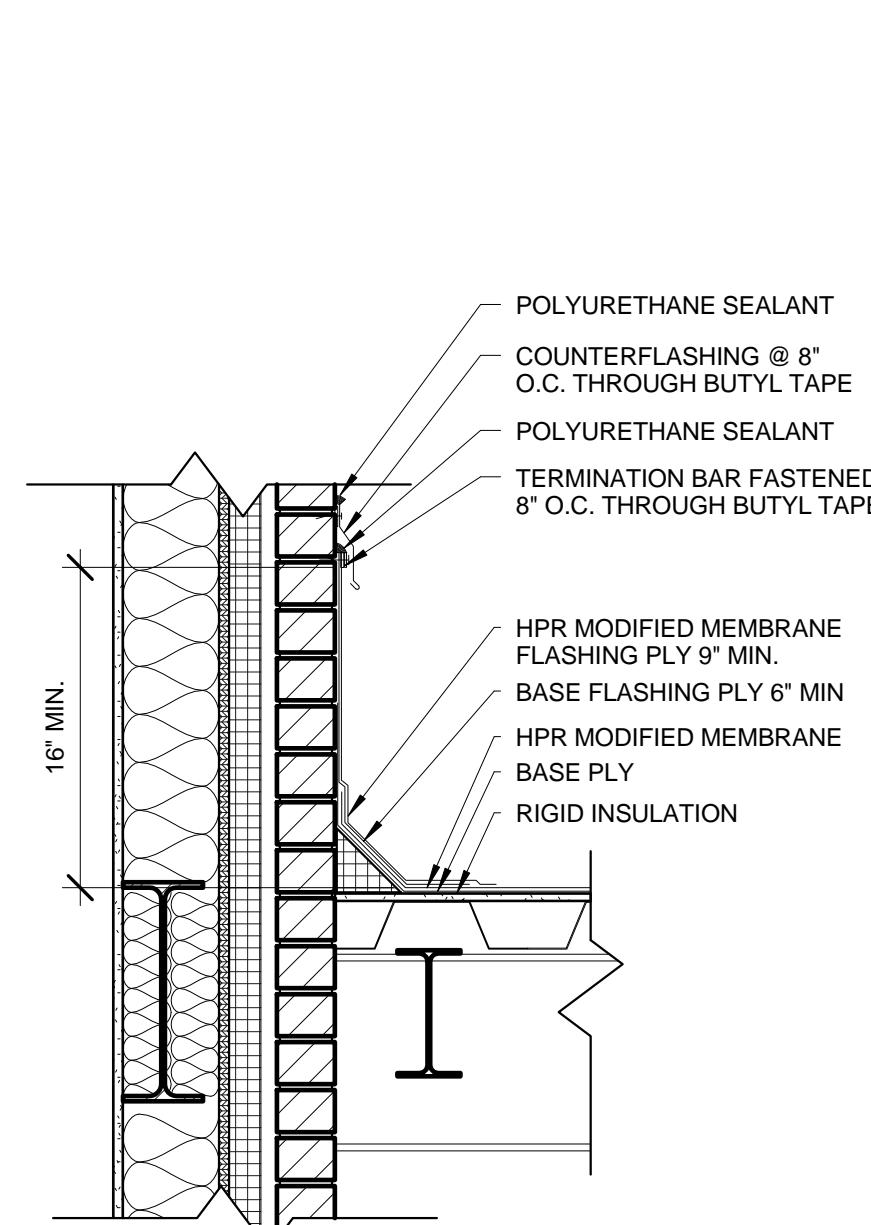
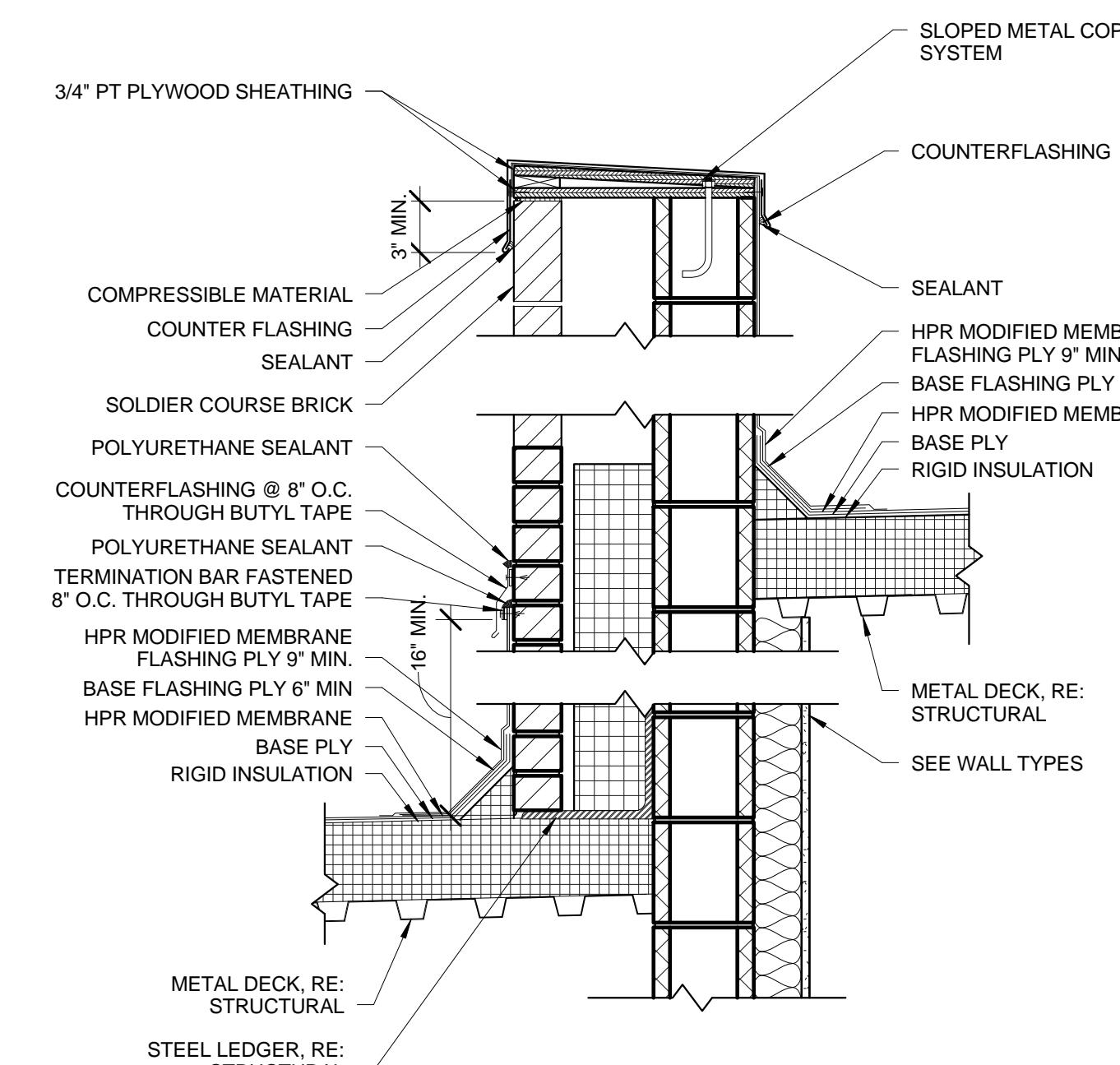
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Seattle, WA 98115 | (206) 522-3820

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**NOT FOR CONSTRUCTION**

CONSULTANT:

**City of Boise Fire Station 8**

3575 W. Overland Rd. Boise, ID 83705

**PROJECT INFORMATION:**

|                   |                      |             |
|-------------------|----------------------|-------------|
| MARK              | DATE                 | DESCRIPTION |
|                   |                      |             |
|                   |                      |             |
|                   |                      |             |
|                   |                      |             |
| PROJECT PHASE     | 75% CD's             |             |
| PROJECT NUMBER    | 15-28                |             |
| PROJECT MANAGER   | R. TeBeau            |             |
| PROJECT ARCHITECT | R. TeBeau            |             |
| DESIGN            | B. Harris/ R. TeBeau |             |
| DRAWN BY          | Author               |             |
| SHEET NAME:       |                      |             |

**ROOF DETAILS**

|      |          |
|------|----------|
| A503 | 01.29.16 |
|      |          |



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Seattle, WA 98115 | (206) 522-3820

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## NOT FOR CONSTRUCTION

CONSULTANT:

PROJECT INFORMATION:



## City of Boise Fire Station 8

3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

PROJECT PHASE: 75% CD's

PROJECT NUMBER: 15-28

PROJECT MANAGER: R. TeBeau

PROJECT ARCHITECT: R. TeBeau

DESIGN: B. Harris/ R. TeBeau

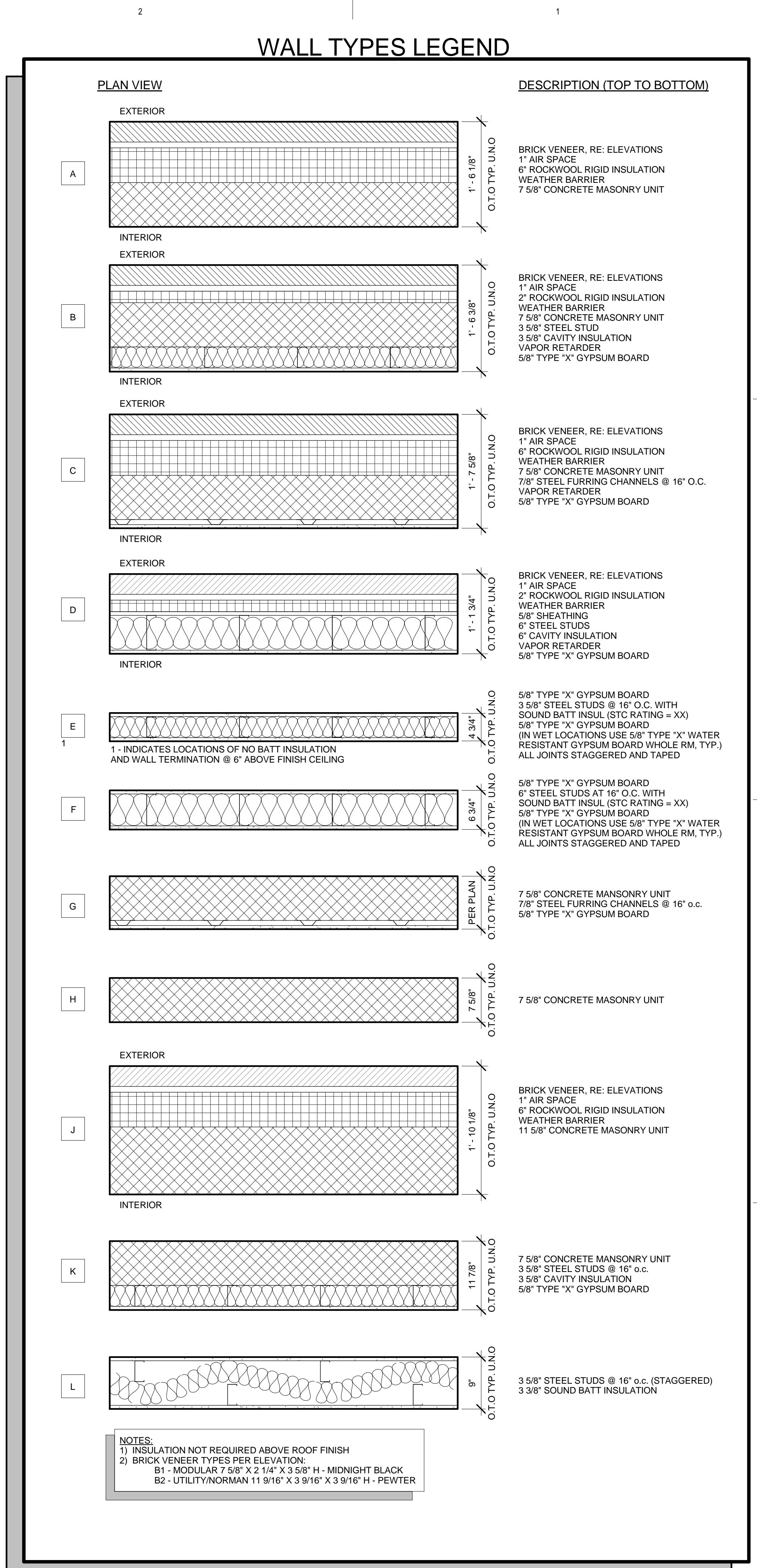
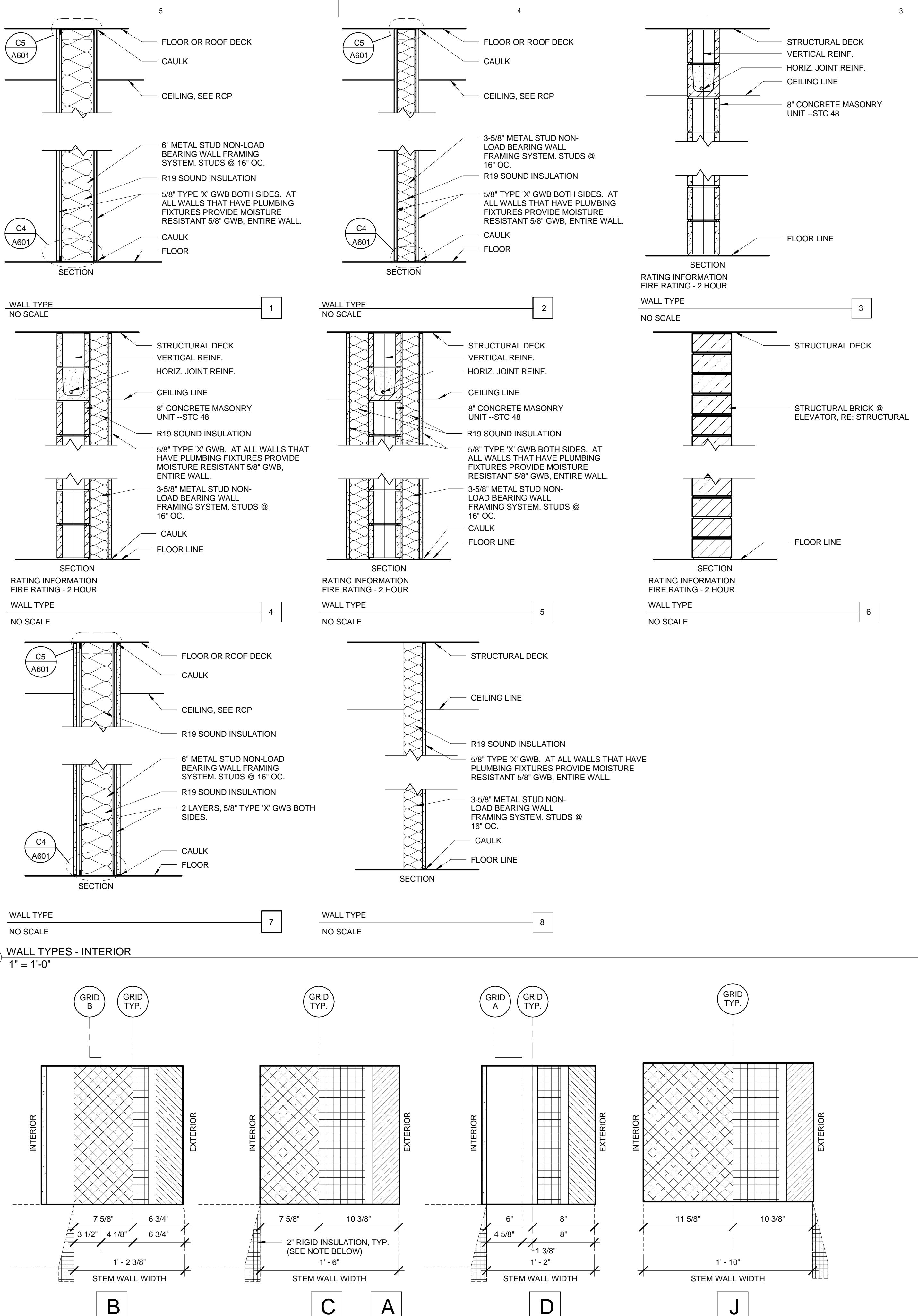
DRAWN BY: Author

SHEET NAME:

## WALL TYPES &amp; DETAILS

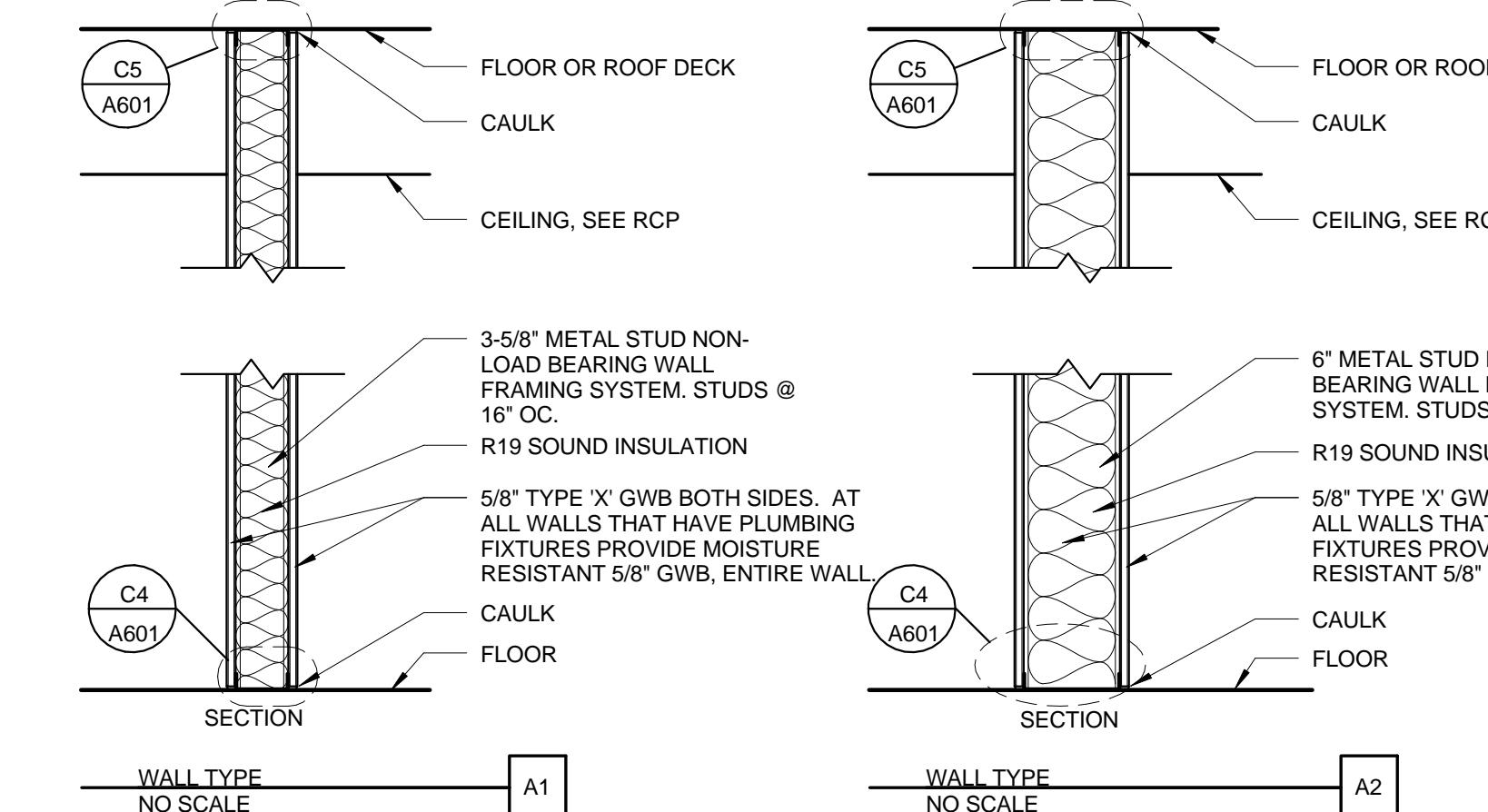
SHEET NUMBER:

A600

NOTE: 2" RIGID INSULATION IS SHOWN AS GRAPHIC REPRESENTATION  
FOR LOCATION ONLY, & DOES NOT REPRESENT ACTUAL SIZE.

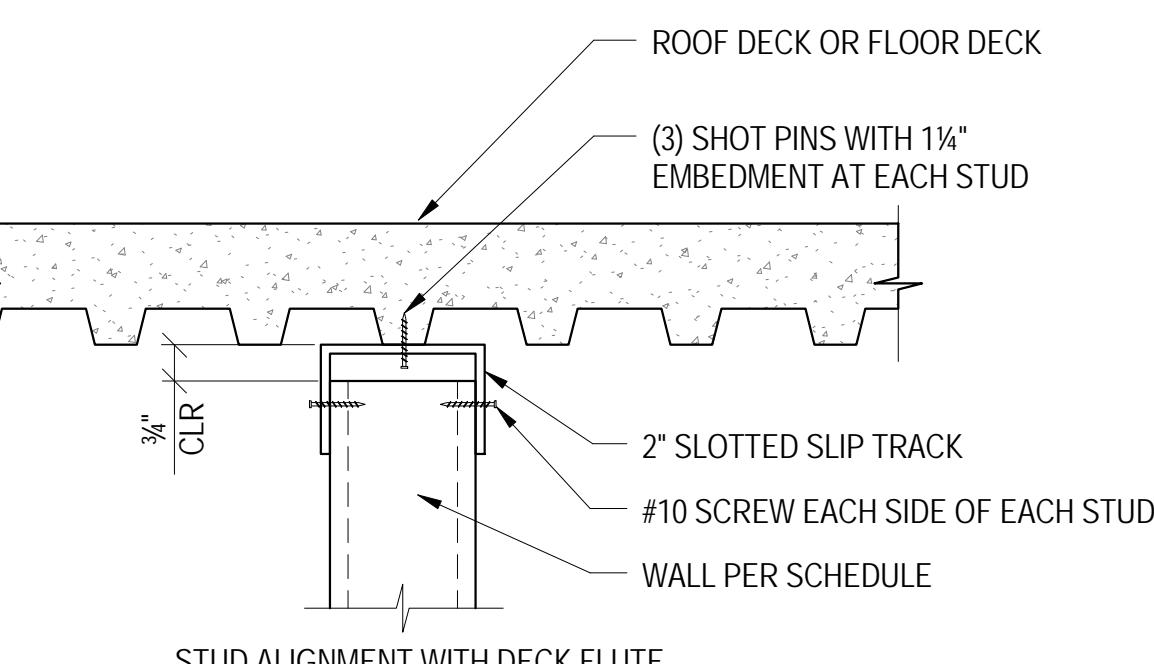
FOUNDATION &amp; INSULATION LOCATION

1 1/2" = 1'-0"



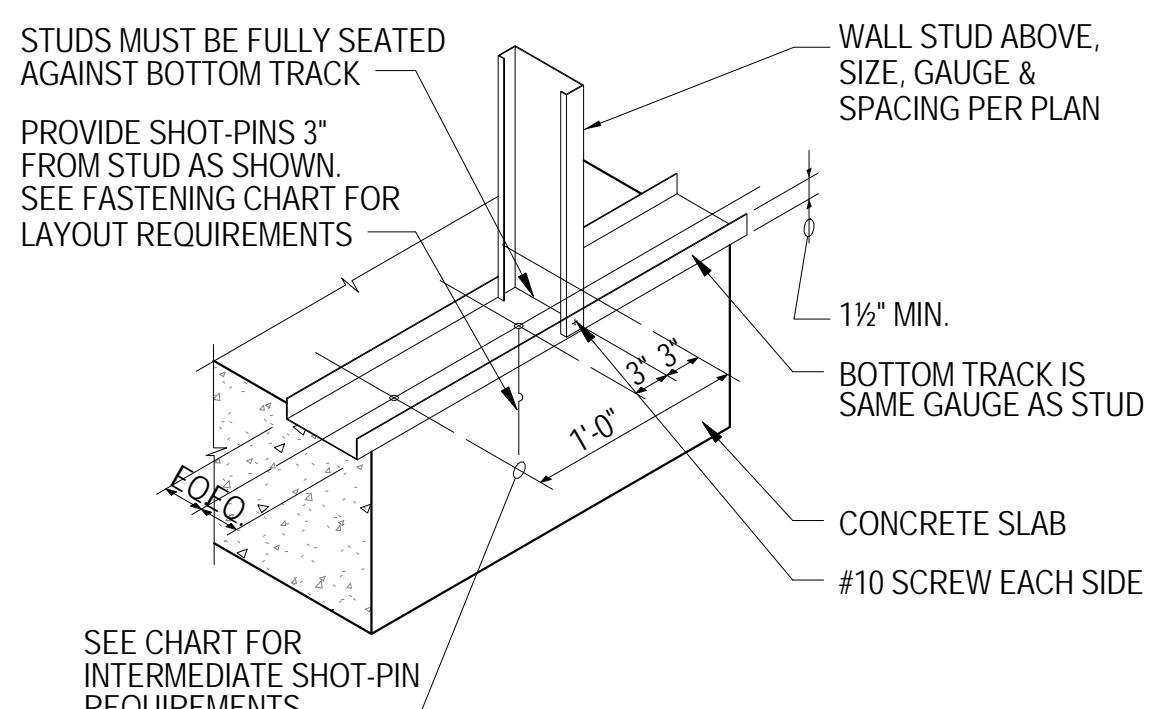
(A) WALL TYPES - METAL STUD

1" = 1'-0"



| FASTENING CHART        |   |
|------------------------|---|
| WALL CONDITION         | FASTENING REQUIREMENT   |
| FULL HEIGHT STUD WALLS | (1) SHOT-PIN @ 24" O.C., PROVIDE (1) SHOT-PIN WITHIN 9" OF WALL END OR JAMB |

NOTES:  
1. All "shot-pins" shall be low velocity type fasteners as manufactured by Hilti corporation. Attach light-gage material to concrete with Hilti X-U 27 P8-S15 (ERS-2269)



WALL TYPES - METAL STUD - SLIP TRACK CONNECTION

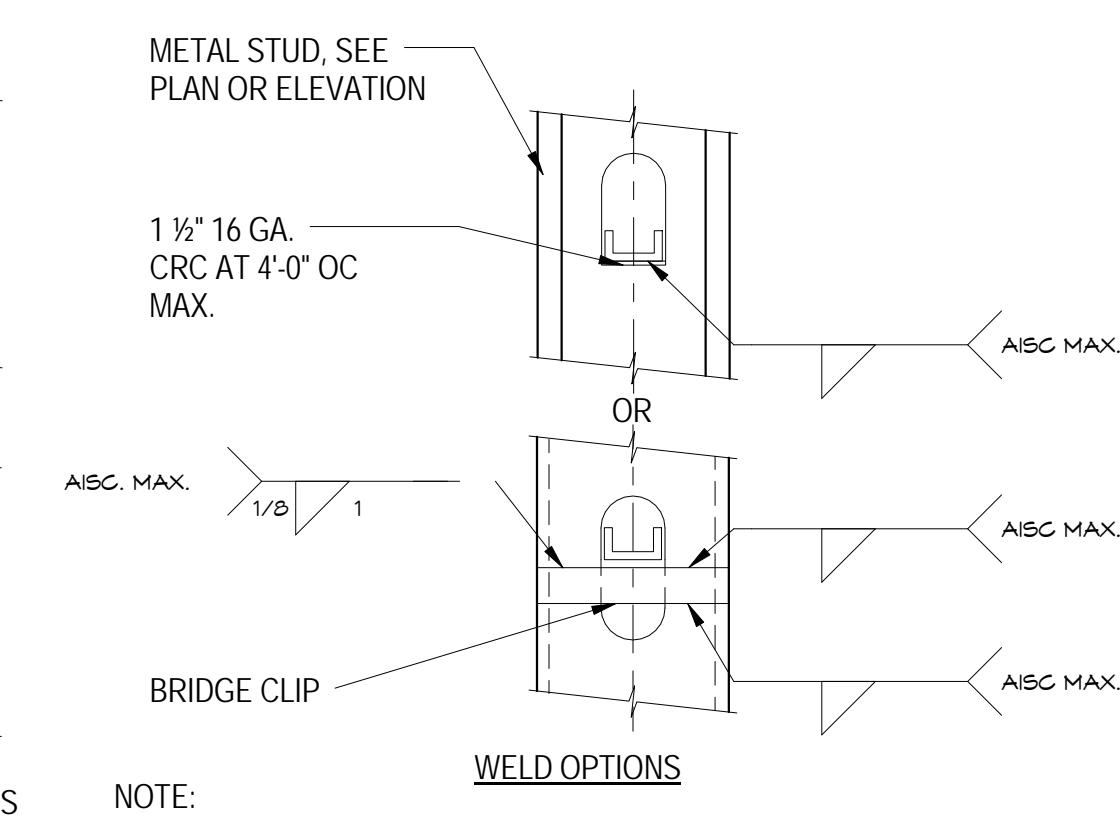
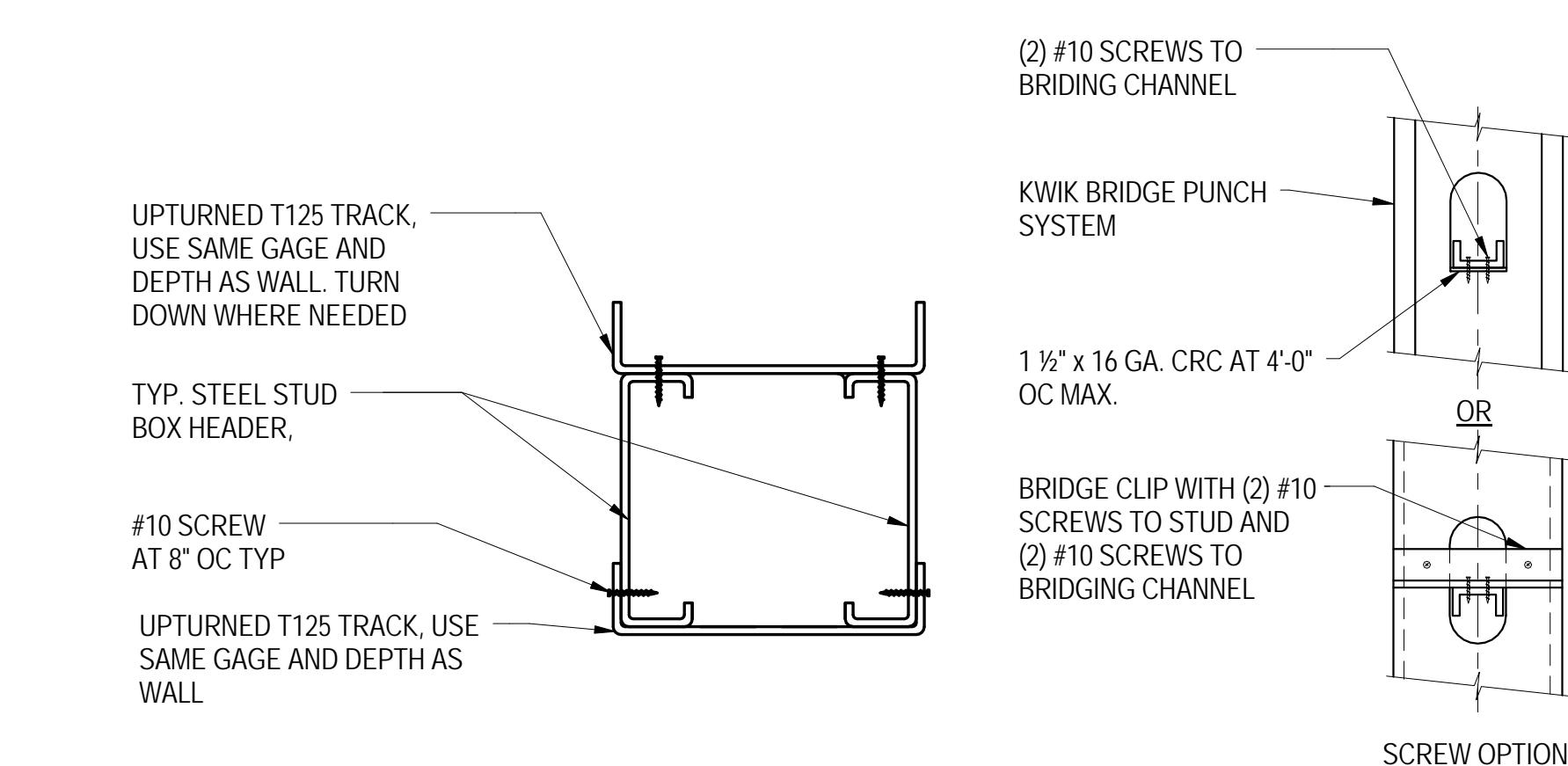
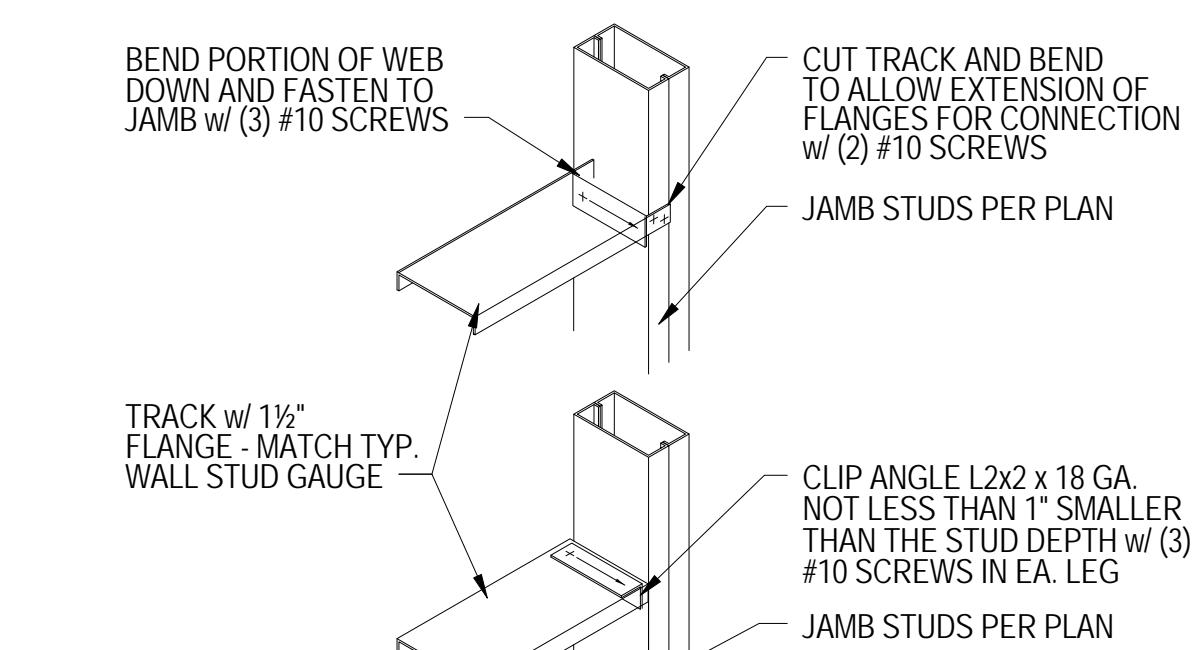
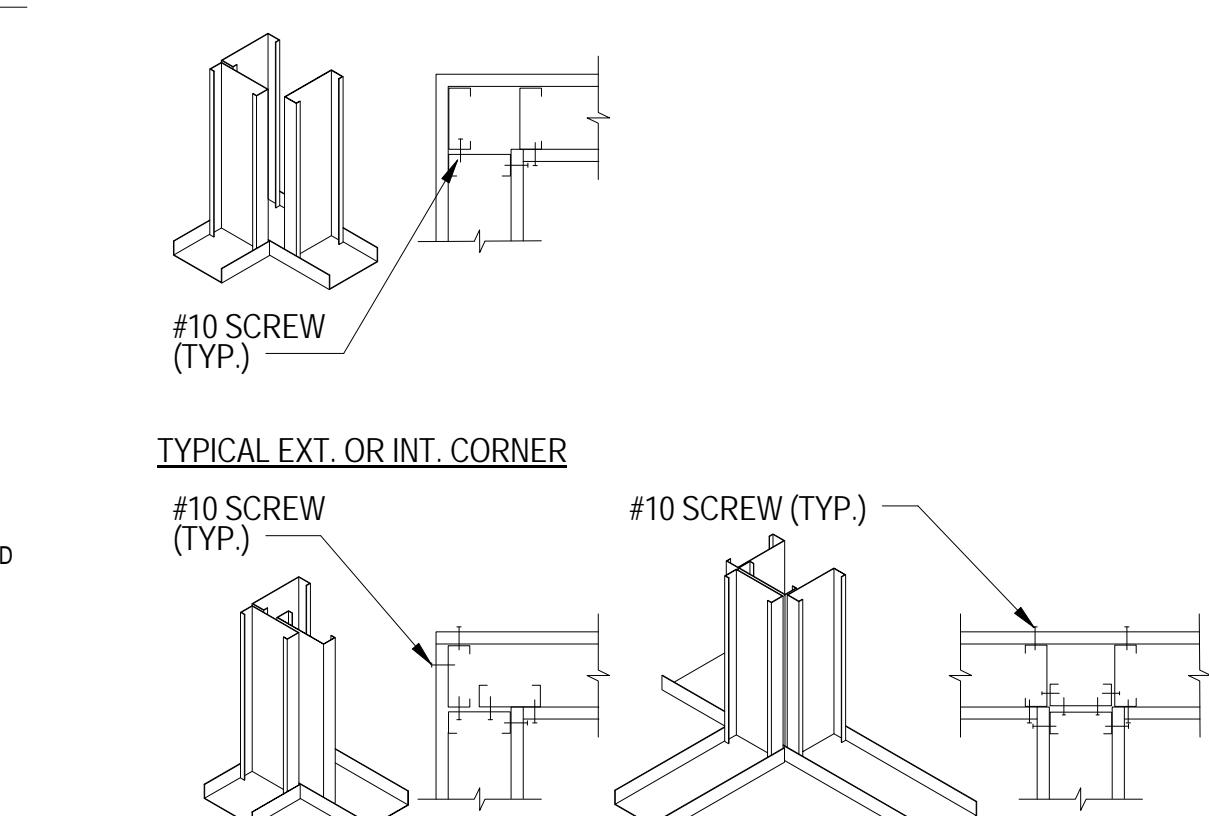
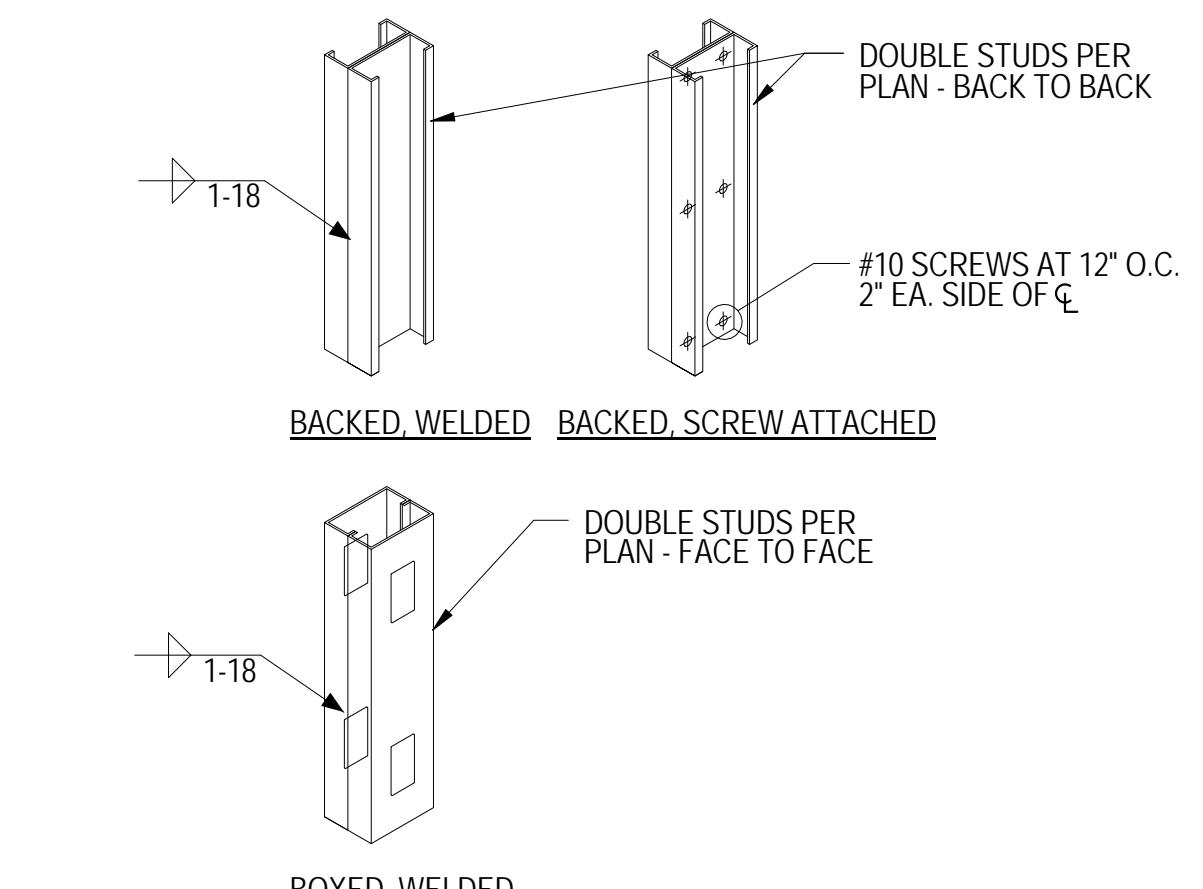
3/4" = 1'-0"

WALL TYPES - METAL STUD - TYP. BOT. TRACK ANCHORAGE TO CONC SLAB-ON GRADE OR ELEVATED DECK

3/4" = 1'-0"

| DEPTH OF TRACK OR STUDS | STUD SCREWS TO JAMB               | TRACK SCREWS TO JAMB              |
|-------------------------|-----------------------------------|-----------------------------------|
| 12 INCHES               | 2-ROWS OF 4 EACH SIDE<br>16-TOTAL | 1-ROW OF 4 TOP AND BOTTOM 8-TOTAL |
| 10 INCHES               | 2-ROWS OF 3 EACH SIDE<br>12-TOTAL | 1-ROW OF 4 TOP AND BOTTOM 8-TOTAL |
| 8 INCHES                | 2-ROWS OF 3 EACH SIDE<br>12-TOTAL | 1-ROW OF 3 TOP AND BOTTOM 6-TOTAL |
| 6 INCHES                | 2-ROWS OF 3 EACH SIDE<br>12-TOTAL | 1-ROW OF 3 TOP AND BOTTOM 6-TOTAL |
| 4 INCHES                | 2-ROWS OF 2 EACH SIDE<br>8-TOTAL  | 1-ROW OF 3 TOP AND BOTTOM 6-TOTAL |

NOTE:  
1. All connections are to be made with #10 screws.



## GENERAL NOTES WALL TYPES:

- A. REFERENCE WALL TYPES FROM FLOOR OR DIMENSION PLANS.
- B. CONSTRUCT WALLS PER TYPICAL DETAILS THIS SHEET.
  - 1. STEEL STUD CONNECTION SCHEDULE.
  - 2. JAMB AT VERTICAL OPENINGS.
  - 3. WALL INTERSECTIONS.
  - 4. SILICATE FRAMED OPENINGS.
  - 5. BOX HEADER.
  - 6. COLD ROLLED CHANNEL BRIDGING.



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CONSULTANT: \_\_\_\_\_



REVISIONS:  
MARK DATE DESCRIPTION

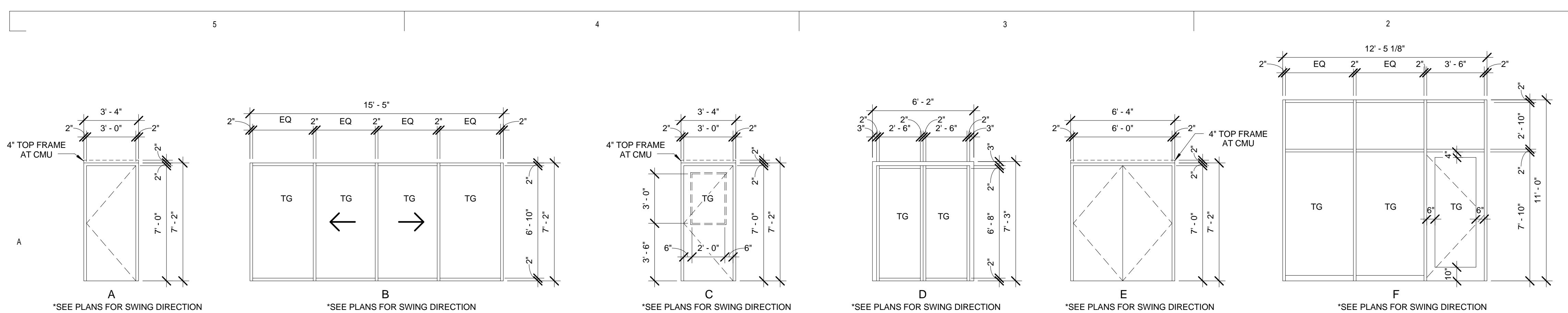
PROJECT PHASE 75% CD's  
PROJECT NUMBER 15-28  
PROJECT MANAGER R. TeBeau  
PROJECT ARCHITECT R. TeBeau  
DESIGN B. Harris / R. TeBeau  
DRAWN BY Author  
SHEET NAME: \_\_\_\_\_

METAL STUD WALL TYPES

SHEET NUMBER: \_\_\_\_\_

A601

01.29.16



## **GENERAL NOTES DOOR SCHEDULE:**

A. REFER TO SHEET ID100 FOR FINISH ABBREVIATIONS.

| <u>DOOR SCHEDULE ABBREVIATIONS:</u> |                         |
|-------------------------------------|-------------------------|
| ALSF                                | ALUMINUM STORE FRONT    |
| ALUM                                | ALUMINUM                |
| CLR                                 | CLEAR ANODIZED ALUMINUM |
| EXT                                 | EXTERIOR                |
| FF                                  | FACTORY FINISH          |
| GL                                  | GLASS                   |
| HM                                  | HOLLOW METAL            |
| INS                                 | INSULATED               |
| LAM                                 | LAMINATE                |
| MTL                                 | METAL                   |
| PT                                  | PAINT                   |
| TG                                  | TEMPERED GLASS          |
| WD                                  | WOOD                    |

\* SEE SPECIFICATIONS FOR DOOR HARWARE SCHEDULE



**NOT FOR CONSTRUCTION**

CONSULTANT:

The image contains two logos. On the left is the logo for the City of Boise, featuring a blue silhouette of the Idaho State Capitol building with the words "O I S E" stacked below it, with "CITY OF TREES" written underneath. On the right is the logo for the Boise Fire Department, which includes a stylized red fireman's shield containing the capitol building, the words "BOISE FIRE" in large red letters, "EST. 1876" at the bottom, and the words "PRIDE" on the left and "SERVICE" on the right.

City of Boise Fire Station 8

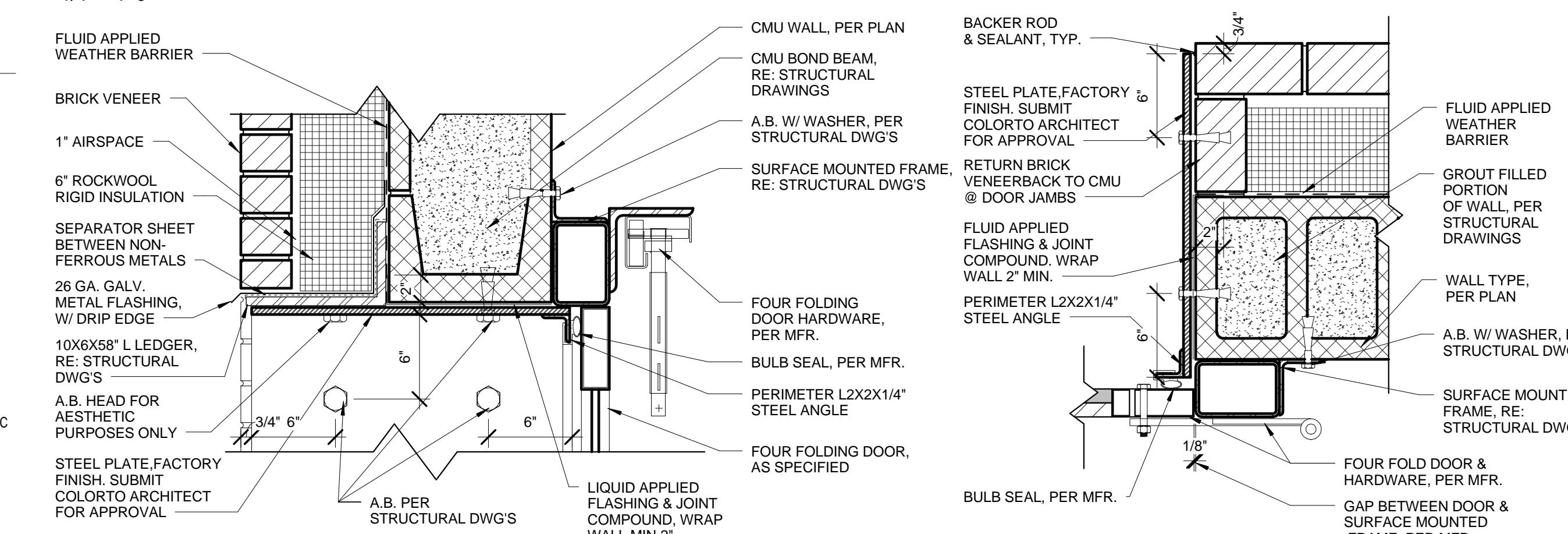
#### **REVISIONS:**

|  | DATE | DESCRIPTION |
|--|------|-------------|
|--|------|-------------|

| DOOR AND FRAME SCHEDULE |                  |          |              |          |             |      |      |         |         |              |      |         |       |            |         |  |
|-------------------------|------------------|----------|--------------|----------|-------------|------|------|---------|---------|--------------|------|---------|-------|------------|---------|--|
| IDENTIFICATION          |                  |          | DOOR         |          |             |      |      |         |         | FRAME        |      |         | HW    |            | REMARKS |  |
| ROOM NO.                | ROOM NAME        | DOOR NO. | W            | H        | T           | TYPE | MATL | FINISH  | GLAZING | FRAME DETAIL |      |         | GROUP | ELECTRICAL |         |  |
|                         |                  |          |              |          |             |      |      |         |         | TYPE         | MTL  | FINISH  |       |            |         |  |
| 100                     | LOBBY            | 100A     | 3' - 8 3/16" | 7' - 10" | 0' - 1 3/4" | F    | ALSF | CLR ANO | TG      |              | ALSF | CLR ANO |       |            |         |  |
| 100                     | LOBBY            | 100B     | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | C    | WD   | VEEN-1  | TG      |              | HM   | PT-1    |       |            |         |  |
| 101                     | RESTROOM         | 101      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | WD   | VEEN-1  | -       |              | HM   | PT-1    |       |            |         |  |
| 102                     | HALL             | 102      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | C    | MTL  | PT-2    | TG      |              | HM   | PT-2    |       |            | INS     |  |
| 104                     | CAPTAIN'S OFFICE | 104      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | WD   | VEEN-1  | -       |              | HM   | PT-1    |       |            |         |  |
| 105                     | CAPT. DORM       | 105      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | WD   | VEEN-1  | -       |              | HM   | PT-1    |       |            |         |  |
| 105                     | CAPT. DORM       | 106      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | WD   | VEEN-1  | -       |              | HM   | PT-1    |       |            |         |  |
| 107                     | MECH. RM.        | 107      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | WD   | VEEN-1  | -       |              | HM   | PT-1    |       |            |         |  |
| 108                     | DORM 01          | 108      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | WD   | VEEN-1  | -       |              | HM   | PT-1    |       |            |         |  |
| 109                     | DORM 02          | 109      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | WD   | VEEN-1  | -       |              | HM   | PT-1    |       |            |         |  |
| 110                     | DORM 03          | 110      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | WD   | VEEN-1  | -       |              | HM   | PT-1    |       |            |         |  |
| 111                     | DORM 04          | 111      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | WD   | VEEN-1  | -       |              | HM   | PT-1    |       |            |         |  |
| 112                     | FIRE RISER       | 112      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | MTL  | PT-2    | -       |              | HM   | PT-2    |       |            |         |  |
| 113                     | ELEC. ROOM       | 113      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | WD   | VEEN-1  | -       |              | HM   | PT-1    |       |            |         |  |
| 114                     | DORM 06          | 114      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | WD   | VEEN-1  | -       |              | HM   | PT-1    |       |            |         |  |
| 115                     | DORM 05          | 115      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | WD   | VEEN-1  | -       |              | HM   | PT-1    |       |            |         |  |
| 116                     | SHOWER/ RESTROOM | 116      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | WD   | VEEN-1  | -       |              | HM   | PT-1    |       |            |         |  |
| 117                     | SHOWER/ RESTROOM | 117      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | WD   | VEEN-1  | -       |              | HM   | PT-1    |       |            |         |  |
| 102                     | HALL             | 118      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | C    | MTL  | PT-2    | TG      |              | HM   | PT-2    |       |            | INS     |  |
| 119                     | SHOWER/ RESTROOM | 119      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | WD   | VEEN-1  | -       |              | HM   | PT-1    |       |            |         |  |
| 120                     | LAUNDRY/ JAN     | 120      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | WD   | VEEN-1  | -       |              | HM   | PT-1    |       |            |         |  |
| 121                     | IT / SERVER      | 121      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | WD   | VEEN-1  | -       |              | HM   | PT-1    |       |            |         |  |
| 122                     | EMS STORAGE      | 122      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | WD   | VEEN-1  | -       |              | HM   | PT-1    |       |            |         |  |
| 123                     | STORAGE          | 123      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | WD   | VEEN-1  | -       |              | HM   | PT-1    |       |            |         |  |
| 124                     | MEDIC OFFICE     | 124      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | WD   | VEEN-1  | -       |              | HM   | PT-1    |       |            |         |  |
| 125                     | MAP ROOM         | 125      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | C    | MTL  | PT-2    | TG      |              | HM   | PT-2    |       |            | INS     |  |
| 126                     | APPARATUS        | 126A     | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | C    | MTL  | PT-2    | TG      |              | HM   | PT-2    |       |            | INS     |  |
| 126                     | APPARATUS        | 126B     | 14' - 0"     | 14' - 0" | 0' - 2"     | G    |      |         | TG      |              |      |         |       |            |         |  |
| 126                     | APPARATUS        | 126C     | 14' - 0"     | 14' - 0" | 0' - 2"     | G    |      |         | TG      |              |      |         |       |            |         |  |
| 126                     | APPARATUS        | 126D     | 14' - 0"     | 14' - 0" | 0' - 2"     | G    |      |         | TG      |              |      |         |       |            |         |  |
| 126                     | APPARATUS        | 126E     | 14' - 0"     | 14' - 0" |             | H    |      |         | TG      |              |      |         |       |            |         |  |
| 126                     | APPARATUS        | 126F     | 14' - 0"     | 14' - 0" |             | H    |      |         | TG      |              |      |         |       |            |         |  |
| 126                     | APPARATUS        | 126G     | 14' - 0"     | 14' - 0" |             | H    |      |         | TG      |              |      |         |       |            |         |  |
| 116                     | SHOWER/ RESTROOM | 127      | 2' - 6"      | 5' - 0"  | 0' - 1"     | 55   |      |         |         |              |      |         |       |            |         |  |
| 117                     | SHOWER/ RESTROOM | 128      | 2' - 6"      | 5' - 0"  | 0' - 1"     | 55   |      |         |         |              |      |         |       |            |         |  |
| 129                     | DECON            | 129      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | MTL  | PT-2    | -       |              | HM   | PT-2    |       |            |         |  |
| 130                     | TURN OUT         | 130      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | MTL  | PT-2    | -       |              | HM   | PT-2    |       |            |         |  |
| 131                     | SUPPLY           | 131      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | MTL  | PT-2    | -       |              | HM   | PT-2    |       |            |         |  |
| 133                     | MAINTENANCE      | 133      | 5' - 8"      | 7' - 0"  | 0' - 1 3/4" | E    | MTL  | PT-2    |         |              | HM   | PT-2    |       |            |         |  |
| 134                     | CLOSET           | 134      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | WD   | VEEN-1  | -       |              | HM   | PT-1    |       |            |         |  |
| 135                     | STORAGE          | 135      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | WD   | VEEN-1  | -       |              | HM   | PT-1    |       |            |         |  |
| 201                     | JAN.             | 201      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | WD   | VEEN-1  | -       |              | HM   | PT-1    |       |            |         |  |
| 202                     | RESTROOM         | 202      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | WD   | VEEN-1  | -       |              | HM   | PT-1    |       |            |         |  |
| 203                     | FITNESS          | 203A     | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | A    | WD   | VEEN-1  | -       |              | HM   | PT-1    |       |            |         |  |
| 203                     | FITNESS          | 203B     | 5' - 8"      | 7' - 0"  | 0' - 1 3/4" | D    | MTL  | PT-2    | TG      |              | HM   | PT-1    |       |            |         |  |
| 205                     | KITCHEN/ DINING  | 205      | 15' - 1"     | 7' - 0"  |             | B    | ALSF | CLR ANO | TG      |              | ALSF | CLR ANO |       |            |         |  |
| 206                     | PANTRY           | 206      | 3' - 0"      | 7' - 0"  | 0' - 1 3/4" | I    | WD   | VEEN-1  | -       |              | HM   | PT-1    |       |            |         |  |

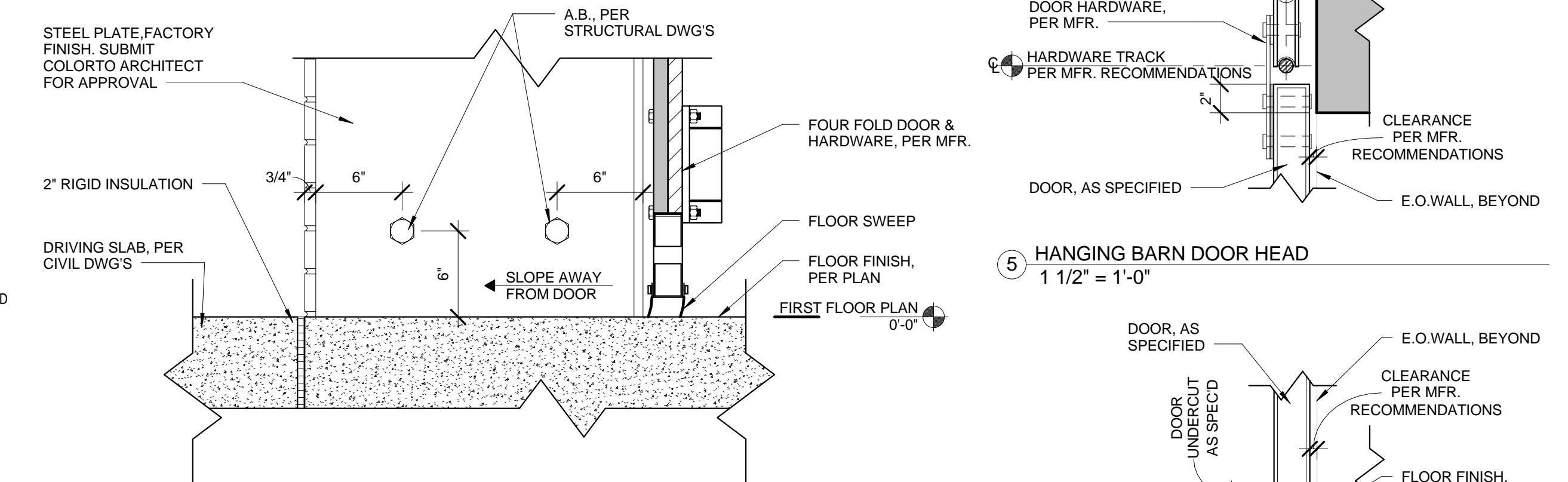
## DOOR ELEVATIONS

**1/4" = 1'-0"**



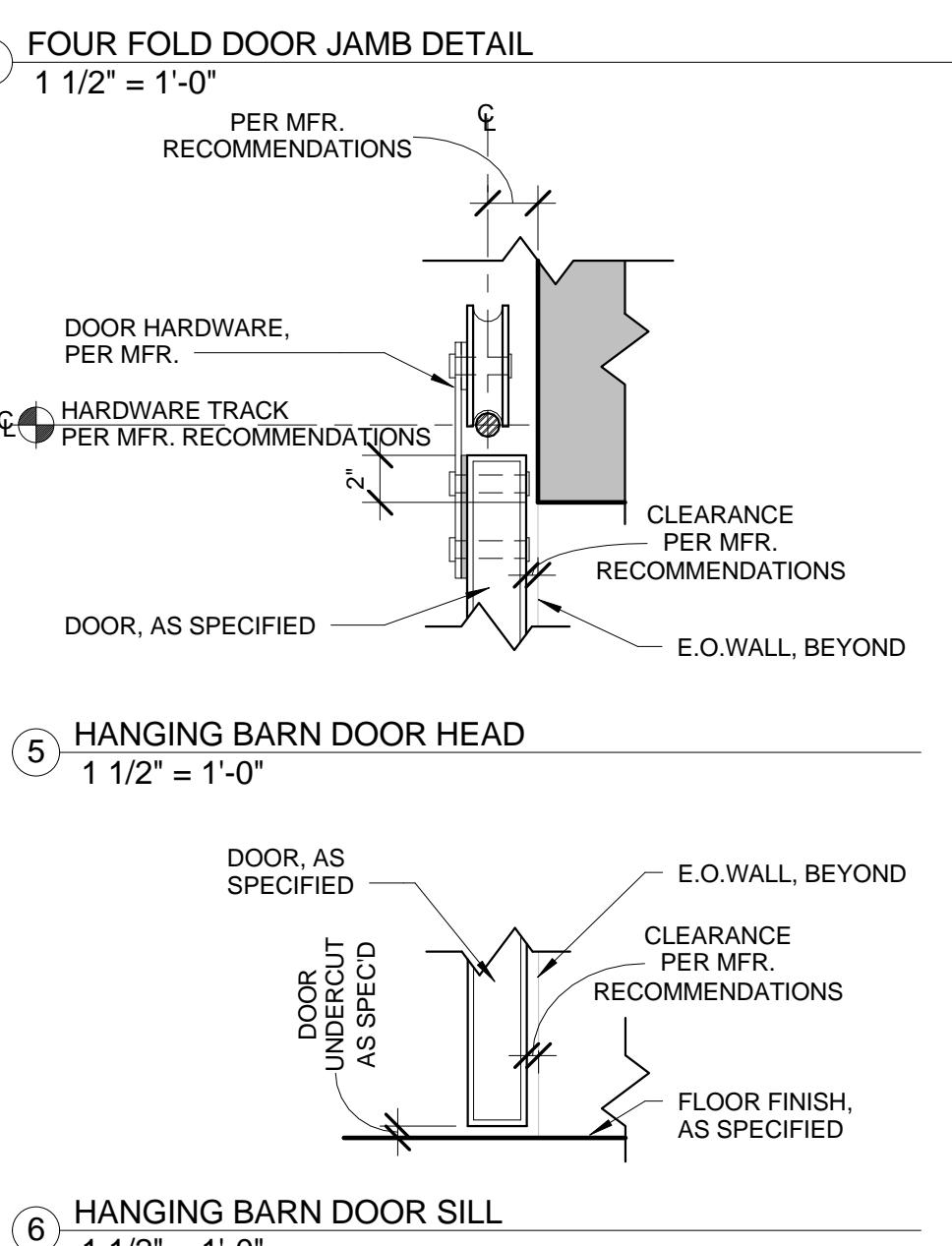
### **3 FOUR FOLD DOOR HEAD DETAIL**

3 1 1/2" = 1



**2 FOUR FOLD DOOR SILL DETAIL**

11



**6 HANGING BARN DOOR SILL**

1 1/2" = 1'-0"

**6**  $1 \frac{1}{2}'' = 1'-0''$

|                   |                      |
|-------------------|----------------------|
| PROJECT PHASE     | 75% CD's             |
| PROJECT NUMBER    | 15-28                |
| PROJECT MANAGER   | R. TeBeau            |
| PROJECT ARCHITECT | R. TeBeau            |
| DESIGN            | B. Harris/ R. TeBeau |
| DRAWN BY          | Author               |

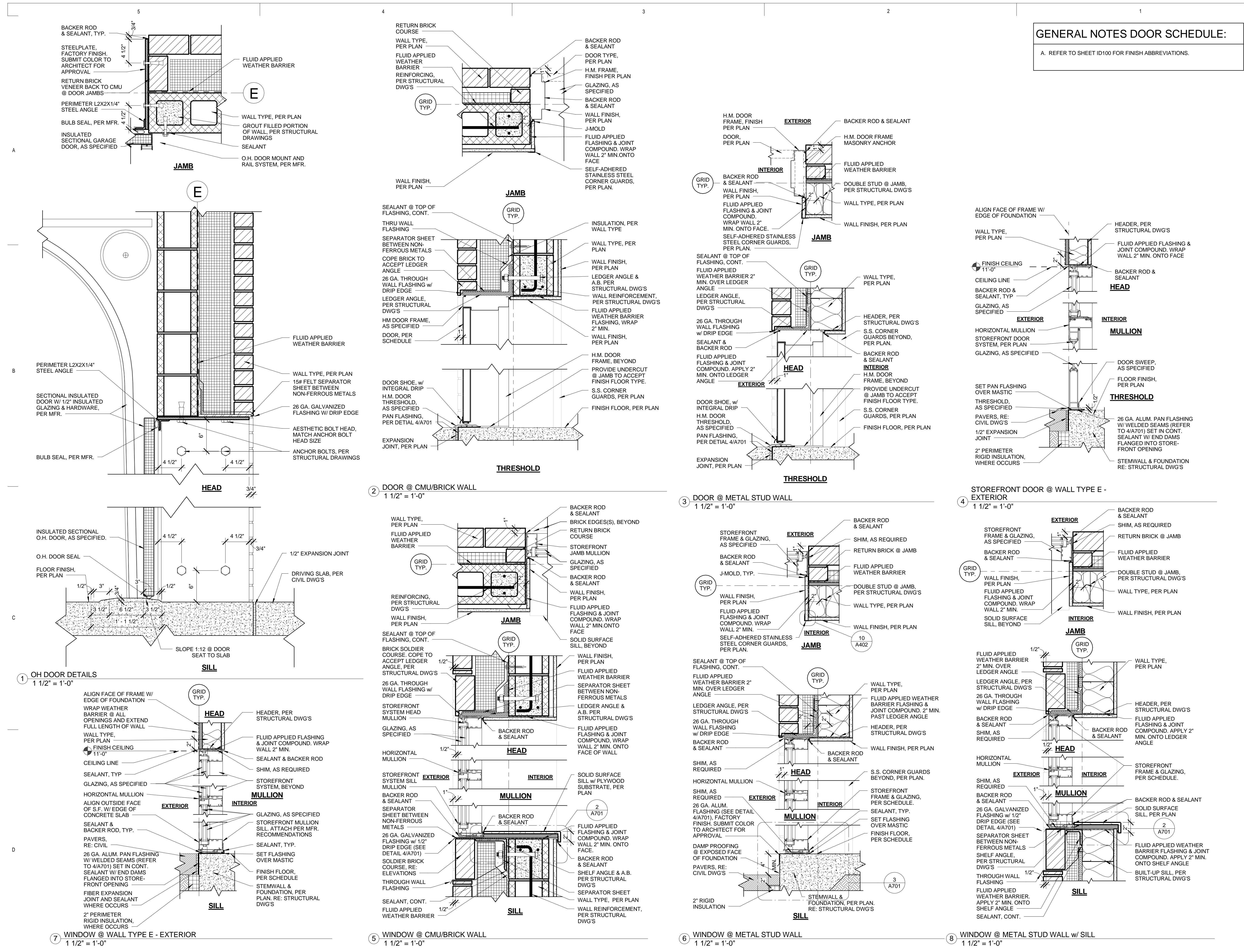
CHEET NAME

# DOOR SCHEDULE, TYPES & DETAILS

CHEET NUMBER:

AZOO





## NOT FOR CONSTRUCTION

CONSULTANT:

PROJECT INFORMATION:



## City of Boise Fire Station 8

3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

PROJECT PHASE 75% CD's

PROJECT NUMBER 15-28

PROJECT MANAGER R. TeBeau

PROJECT ARCHITECT R. TeBeau

DESIGN B. Harris, R. TeBeau

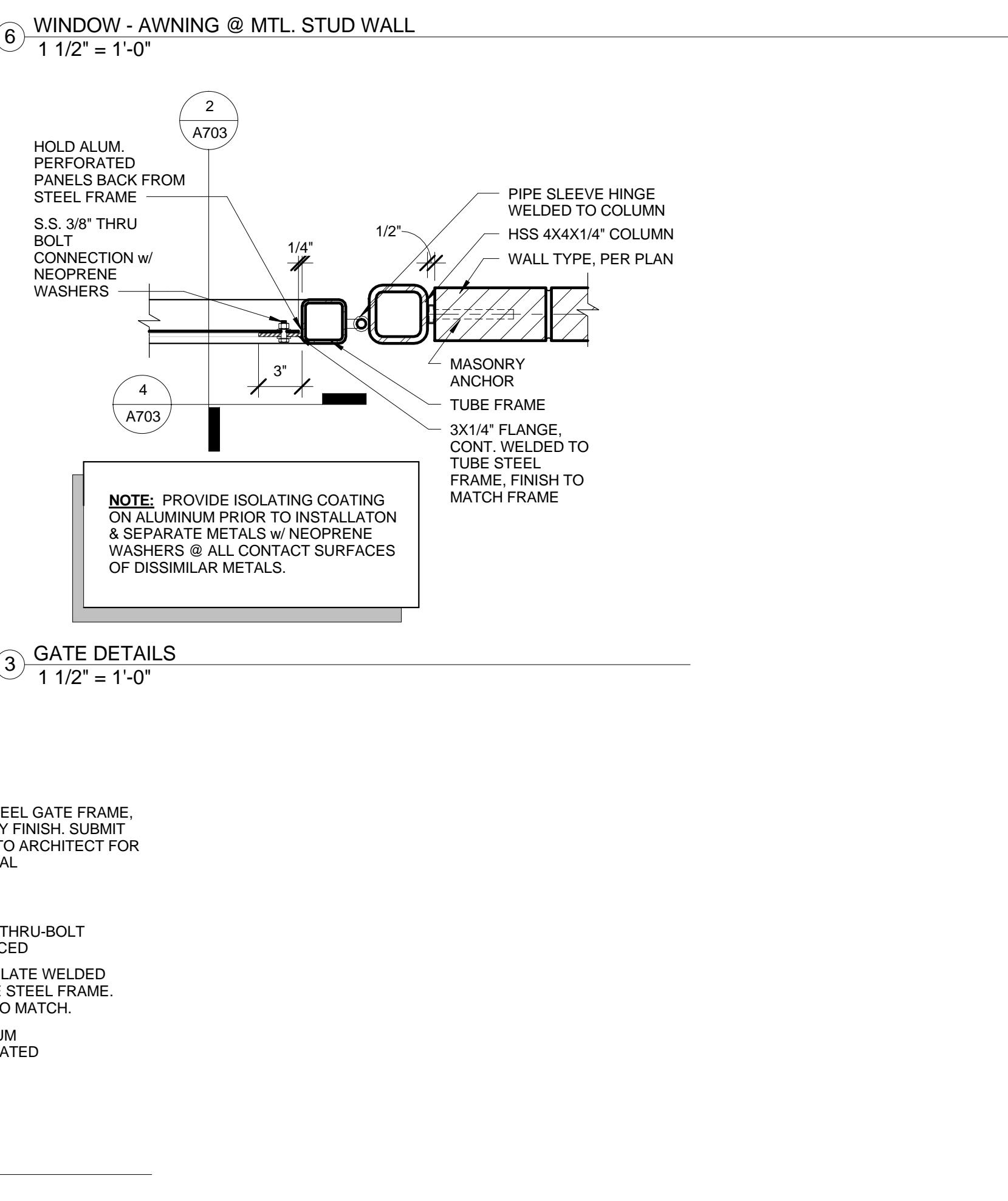
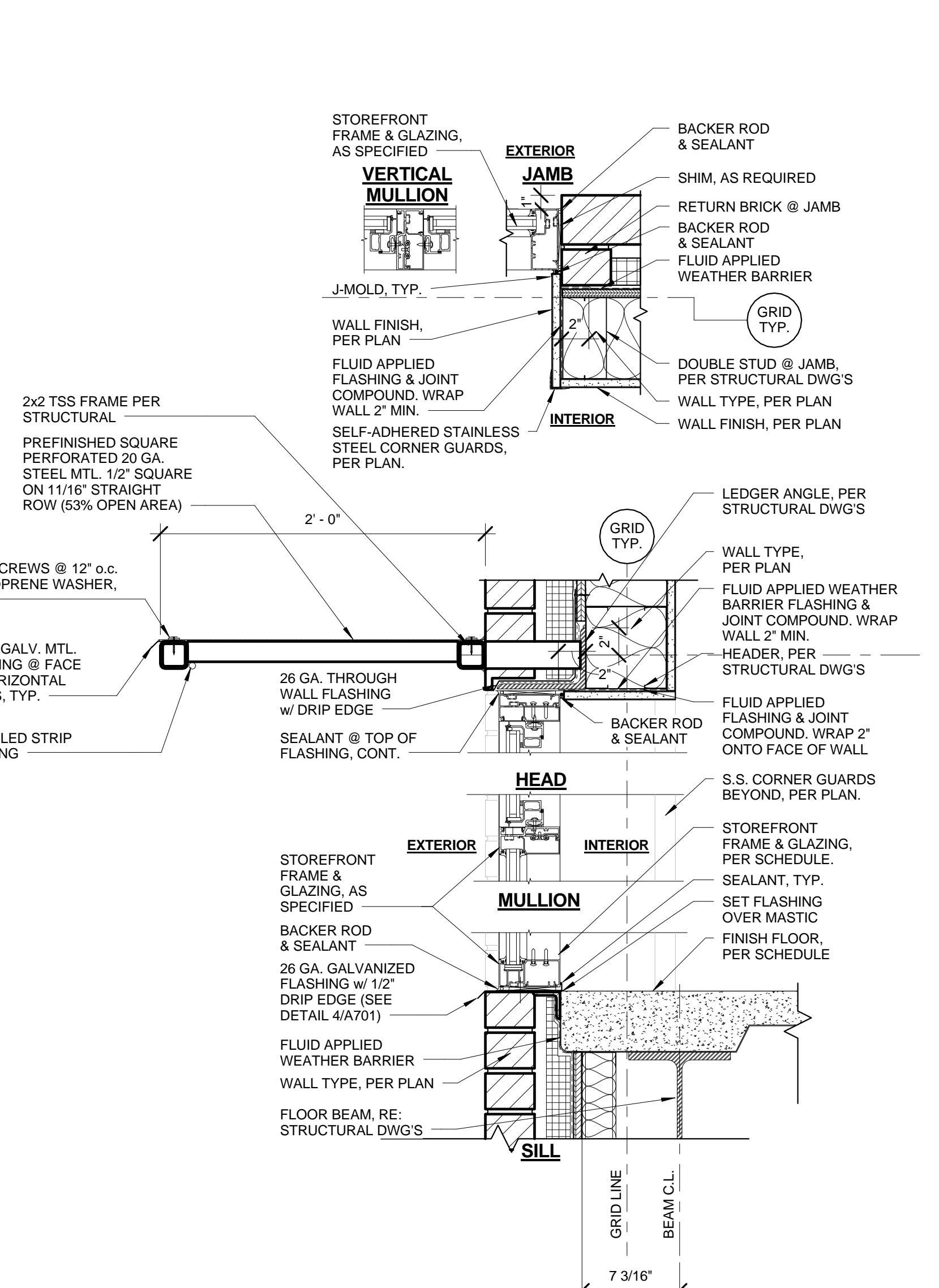
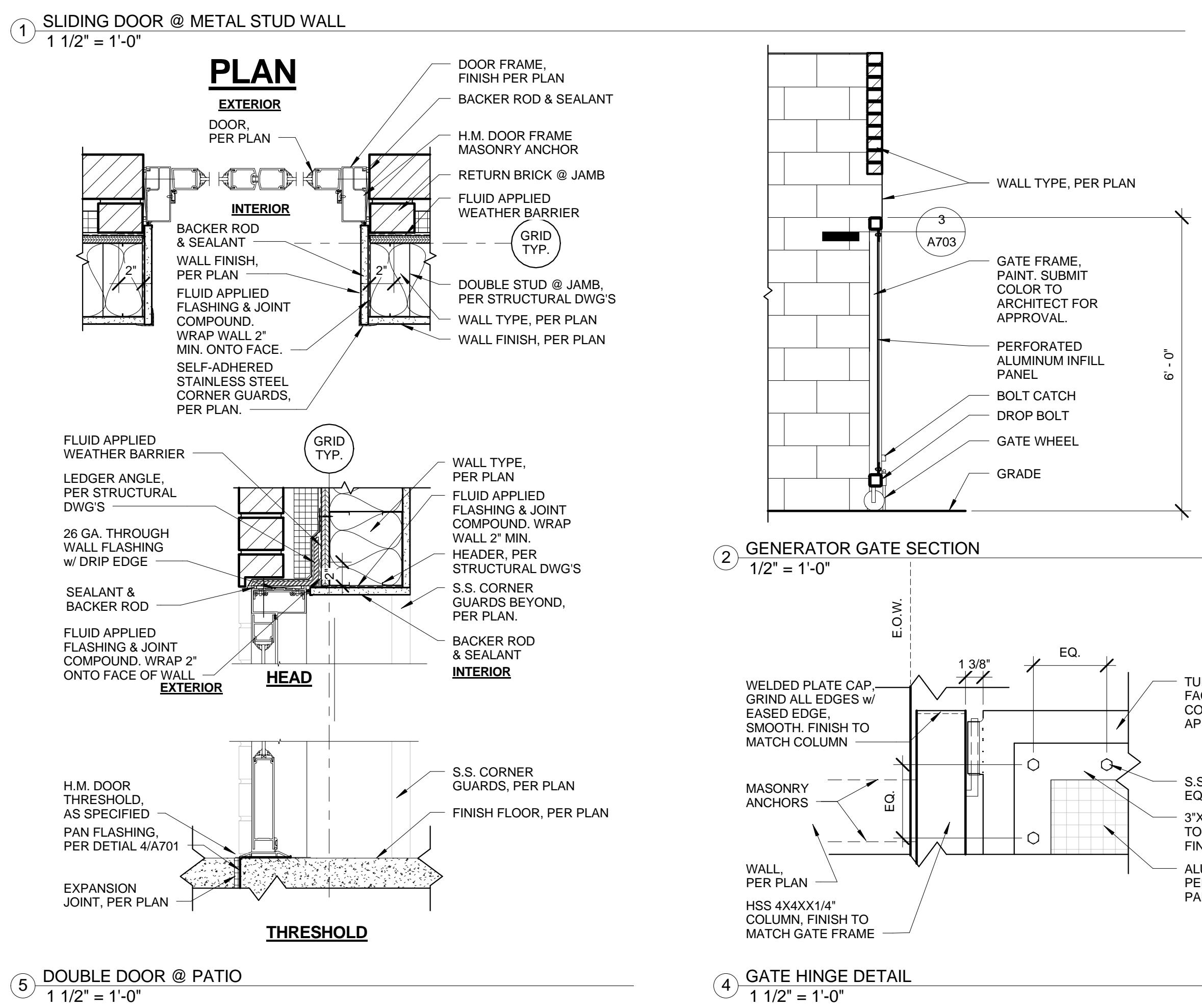
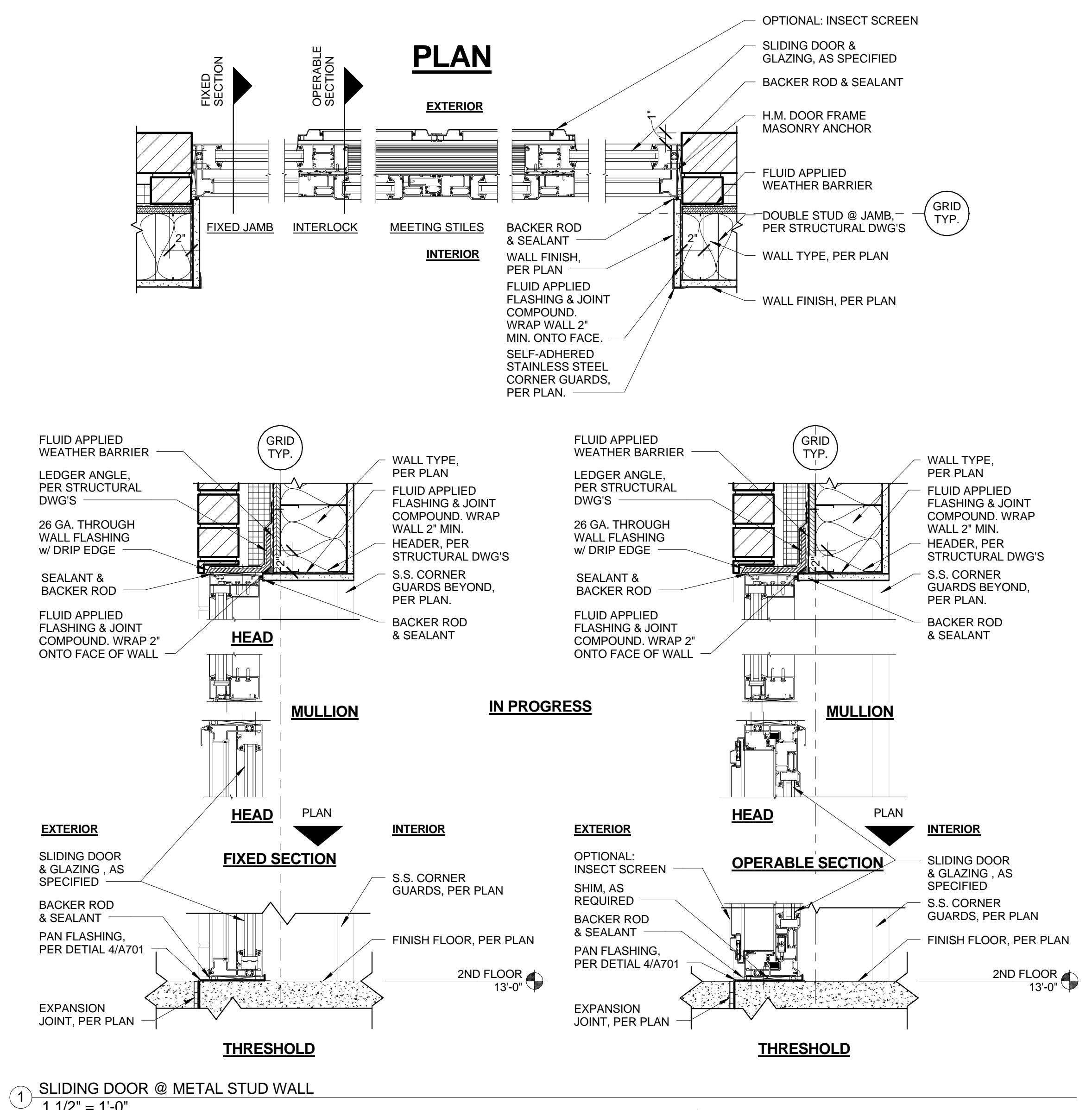
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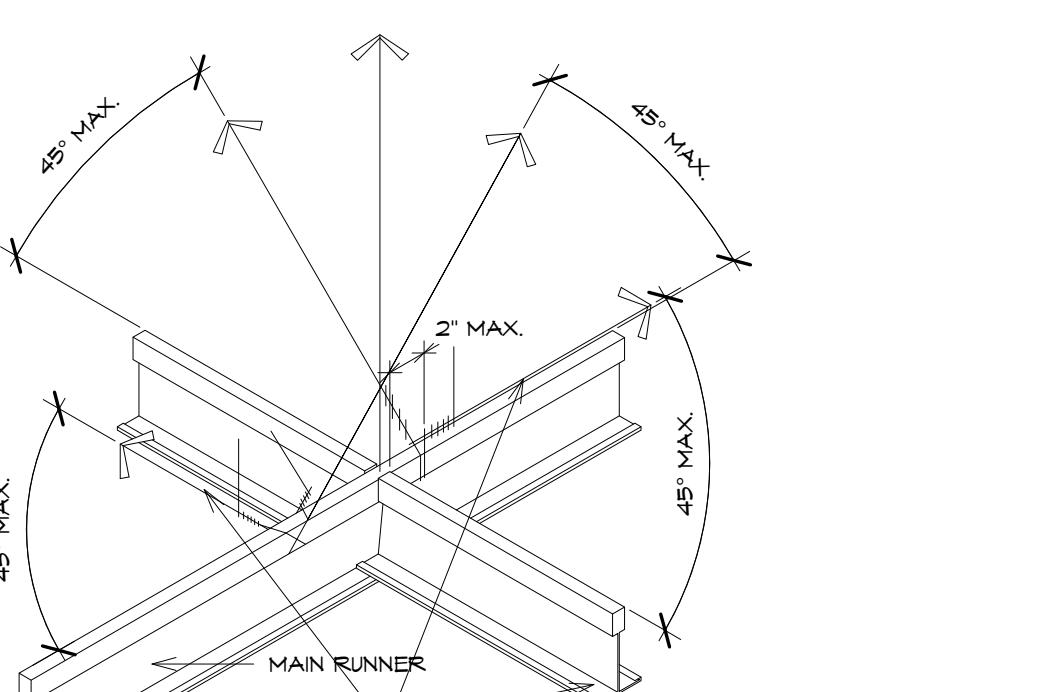
SHEET NAME:

## DOOR &amp; WINDOW DETAILS

A703

01.29.16





**Suspended Ceiling Seismic Provisions from CISCA O-2 for Design Class C**

- Each individual fixture and attachments with a combined weight of 56 lbs. or less shall have two No. 12 gauge wire hangers attached at diagonal corners of the fixture. These wires must be slack. Any fixtures and attachments with a combined weight greater than 56 lbs. must be independently supported from the structure.
- The main runner/cross runner intersections and all grid splices must have an average ultimate test strength of 80 lbs. or more in both tension and compression. The tensile test must allow for a 5° offset of the connection in any direction.
- The main runner/cross runner system, including grid, panels or tile, light fixtures, and air terminals must be 2.5 psf or less. All other services must be supported independently from the ceiling system. For ceilings that have an average weight greater than 2.5 psf, the ceiling may be installed as specified in CISCA Zone 3-4 provisions, taking into account the design lateral force factor appropriate for Zone 2. Other deviations or variations must be substantiated by verifiable engineering data.
- All perimeter closure angles or channels must provide a support ledge of approximately 7/8 in. or greater. A terminal end of a grid member (or tile) must rest on the ledger or molding with at least 3/8 in. clearance from an edge or wall.
- For perimeter closure angles, provide a support ledge of less than noted above, the terminal ends of each cross runner or main runner shall be independently supported within 8 in. from each wall or ceiling discontinuity. This support may be a No. 12 gauge hanger wire or other support that prevents the grid from falling. This wire does not need to be vertical but should not have a slope greater than 1 in 6 out-of-plumb. A 3/8 in. grid end clearance from a wall should be maintained.
- All ceiling penetrations (columns, sprinklers, etc.) and independently supported fixtures or services are to be considered as perimeter closures that also must allow the noted clearances by using suitable escutcheons or closure details.
- At wall closure ledges, the cross runner and main runner ends shall be prevented from spreading apart from each other. Permanent attachments (i.e. pop rivets) for grid alignment purposes shall not be permitted.

**GENERAL NOTE:**  
ALL SUSPENDED CEILINGS  
TO ALSO BE INSTALLED PER  
MANUFACTURER'S  
RECOMMENDATIONS, IBC 2006,  
AND ASTM C 635 AND ASTM C 636.

D5 SUSPENDED CEILING  
3" = 1'-0"

## GENERAL NOTES REFLECTED CEILING:

- A. SUBCONTRACTORS FOR EACH TRADE ARE ADVISED THAT INFORMATION PERTINENT TO THEIR WORK MAY OCCUR IN OTHER PORTIONS OF THE CONTRACT DOCUMENTS. ALL NOTES ARE TO BE REVIEWED AND APPLIED TO RELATED BUILDING DOCUMENTS.
- B. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY IF ANY CONFLICTS OR DISCREPANCIES OCCUR BEFORE AND/OR DURING CONSTRUCTION.
- C. CROSS REFERENCES SHOWN ON DRAWINGS DO NOT NECESSARILY INDICATE ALL LIKE CONDITIONS AND DO NOT LIMIT APPLICATION OF ANY DRAWING OR DETAIL WHERE SPECIFIC DIMENSIONS, DETAILS, OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
- D. REVIEW SPECIFICATIONS FOR INSTRUCTIONS NOT SHOWN ON DRAWINGS. INFORMATION COMMON TO SEVERAL DRAWINGS MAY BE NOTED ONLY ON ONE. CONTRACTOR IS RESPONSIBLE FOR ENTIRE SET OF DOCUMENTS.
- E. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL ITEMS NOT SHOWN TO BE PROVIDED IN THE CEILING PLANE AND IN THE SCOPE OF WORK. COORDINATE WITH DRAWINGS AND SPECIFICATIONS FOR PHYSICAL SIZE OF ALL CEILING GRILLS, DIFFUSERS, FIXTURES, LIGHTS AND ALL RELATED ITEMS.
- F. DIMENSIONS ARE TO STRUCTURAL GRIDLINE OR FACE OF STUD UNLESS NOTED OTHERWISE.
- G. CENTER ALL CEILING GRID, LIGHT FIXTURES AND SPRINKLER HEADS IN THEIR RESPECTIVE CEILING PANEL. IF NOT DIMENSIONED LOCATE EVENLY AND CENTER IN SPACES. IF UNCLEAR, CONSULT ARCHITECT FOR LOCATION.
- H. INSTALL ALL SUSPENSION SYSTEMS FOR ACOUSTICAL PANEL CEILINGS PER THE SPECIFICATION AND C.I.S.C.A. "RECOMMENDATIONS FOR DIRECT-HUNG SEISMIC DESIGN CATEGORY C. REFER TO IBC SECTION 803.9.1.1. SUSPENDED ACOUSTICAL CEILINGS. COMPLY WITH ASTM C 635 AND C 136.
- I. INSTALL ALL SUSPENSION SYSTEMS FOR GYPSUM BOARD CEILINGS PER THE SPECIFICATIONS AND ASTM C 754.
- J. Q. REFER TO ELECTRICAL DRAWINGS FOR QUANTITY AND TYPE OF LIGHTS, SPEAKERS, DETECTORS, POWER OUTLETS, ETC. SCRIBE CEILING MATERIALS CAREFULLY. WHERE NO DEVICES ARE SHOWN ON PLANS, FIELD VERIFY LOCATION & QUANTITY OF DEVICES IN EXISTING CEILING. THESE DEVICES WILL BE RELOCATED TO THE NEW CEILING.
- K. COORDINATE ALL ACCESS PANEL LOCATIONS WITH STRUCTURAL FRAMING AND SUSPENDED CEILING SYSTEMS TO ACCOMMODATE SIZES INDICATED.
- L. ALL GYPSUM BOARD CEILINGS TO BE TEXTURED AND PAINTED UNLESS NOTED OTHERWISE.
- M. ALL EXPOSED STRUCTURE IN OCCUPIED SPACES TO BE PAINTED.
- N. PROVIDE GYPSUM WALL BOARD AND METAL STUD BULKHEADS WHERE CEILINGS OF DIFFERENT HEIGHTS ABUT. DO NOT BUILD BULKHEADS OF ACOUSTICAL CEILING MATERIALS UNLESS SPECIFICALLY DETAILED.
- O. REFER TO MECHANICAL DRAWINGS FOR QUANTITY AND TYPE OF DIFFUSERS, RETURN AIR GRILLES, AND EXHAUST GRILLES. SCRIBE CEILING MATERIALS CAREFULLY FOR A TIGHT FIT.

## RCP SYMBOL LEGEND

|  |  |
|--|--|
|  | 2x4 "SECOND LOOK" ACOUSTICAL TILE CEILING & GRID |
|  | GYPSUM CEILING - TEXTURED & PAINTED              |
|  | 1" ACOUSTIC PANEL or SHEATHING                   |
|  | LIGHT FIXTURE 2X4, RE: ELECTRICAL DRAWINGS       |
|  | LIGHT FIXTURE 2 X 2, RE: ELECTRICAL DRAWINGS     |
|  | RECESSED LIGHT, RE: ELECTRICAL DRAWINGS          |
|  | SMOKE DETECTOR, RE: ELECTRICAL DRAWINGS          |
|  | SPEAKER, RE: ELECTRICAL DRAWINGS                 |
|  | EXIT LIGHT, RE: ELECTRICAL DRAWINGS              |
|  | HVAC DIFFUSER, RE: MECHANICAL DRAWINGS           |
|  | AC RETURN, RE: MECHANICAL DRAWINGS               |

| KEY NOTES # |
|-------------|
| 1. XXX      |



**City of Boise Fire Station 8**  
3575 W. Overland Rd. Boise, ID 83705

C REVISIONS:

MARK DATE DESCRIPTION

PROJECT PHASE 75% CD's

PROJECT NUMBER 15-28

PROJECT MANAGER R. TeBeau

PROJECT ARCHITECT R. TeBeau

DESIGN B. Harris / R. TeBeau

DRAWN BY Author

SHEET NAME:

**1ST FLOOR  
REFLECTED CEILING  
PLAN**

D SHEET NUMBER:

**A800**

01.29.16

ARCHITECT:

**COLE ARCHITECTS**  
COLE ARCHITECTS | 802 W. BANNOCK SUITE 208  
Boise, ID 83702 | (208) 345-1800

**T C A**  
architecture • planning

TCA | 821 Roosevelt Way NE  
Seattle, WA 98115 | (206) 522-3820

STAMP:

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CONSULTANT:



C

REVISIONS:

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DRAWN BY Author

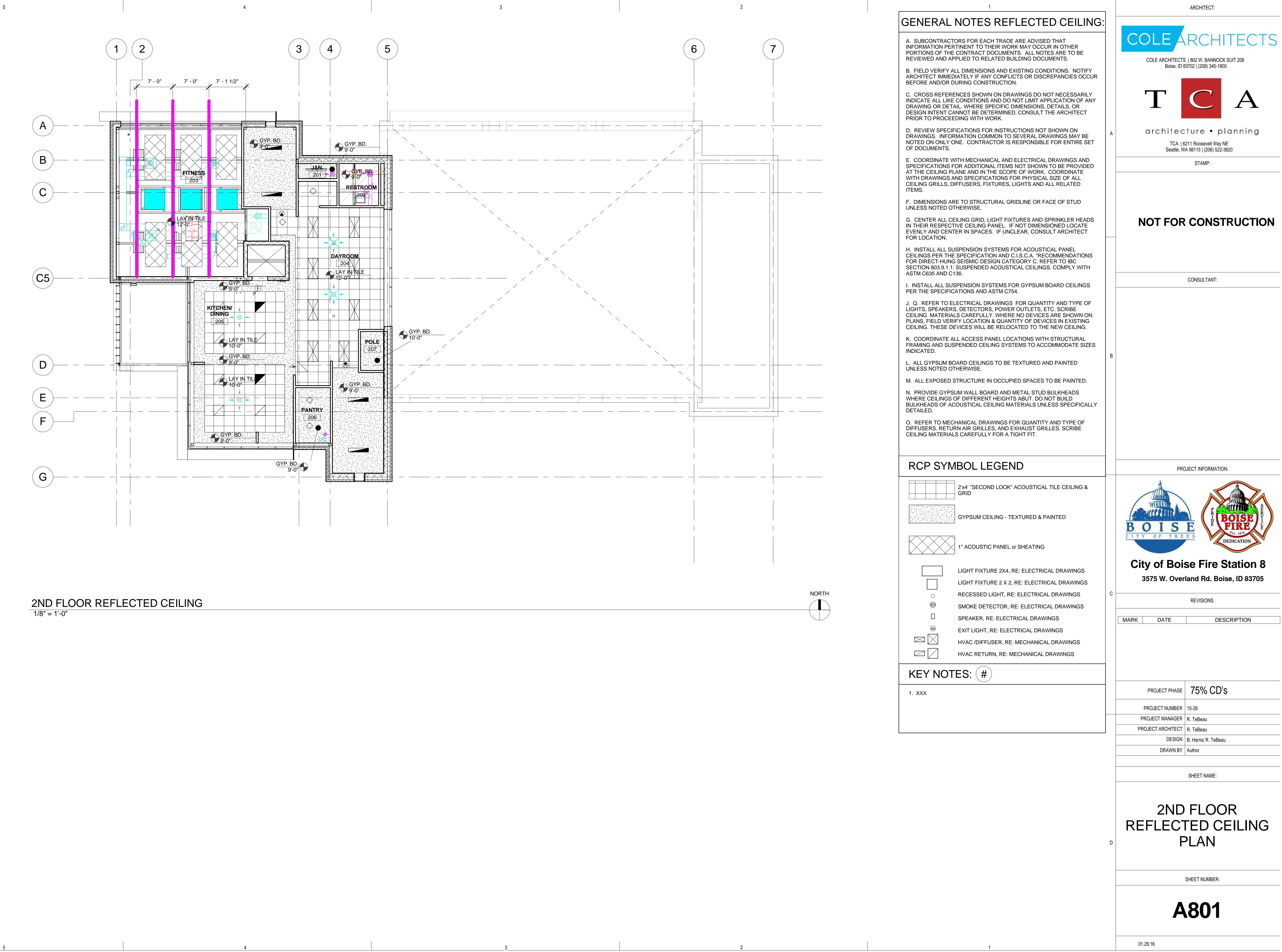
SHEET NAME:

**1ST FLOOR  
REFLECTED CEILING  
PLAN**

D SHEET NUMBER:

**A800**

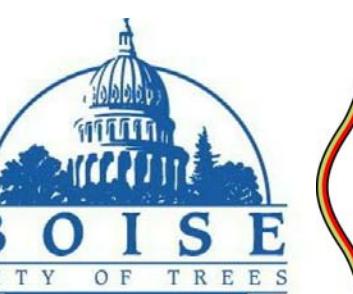
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PROJECT PHASE: 75% CD's

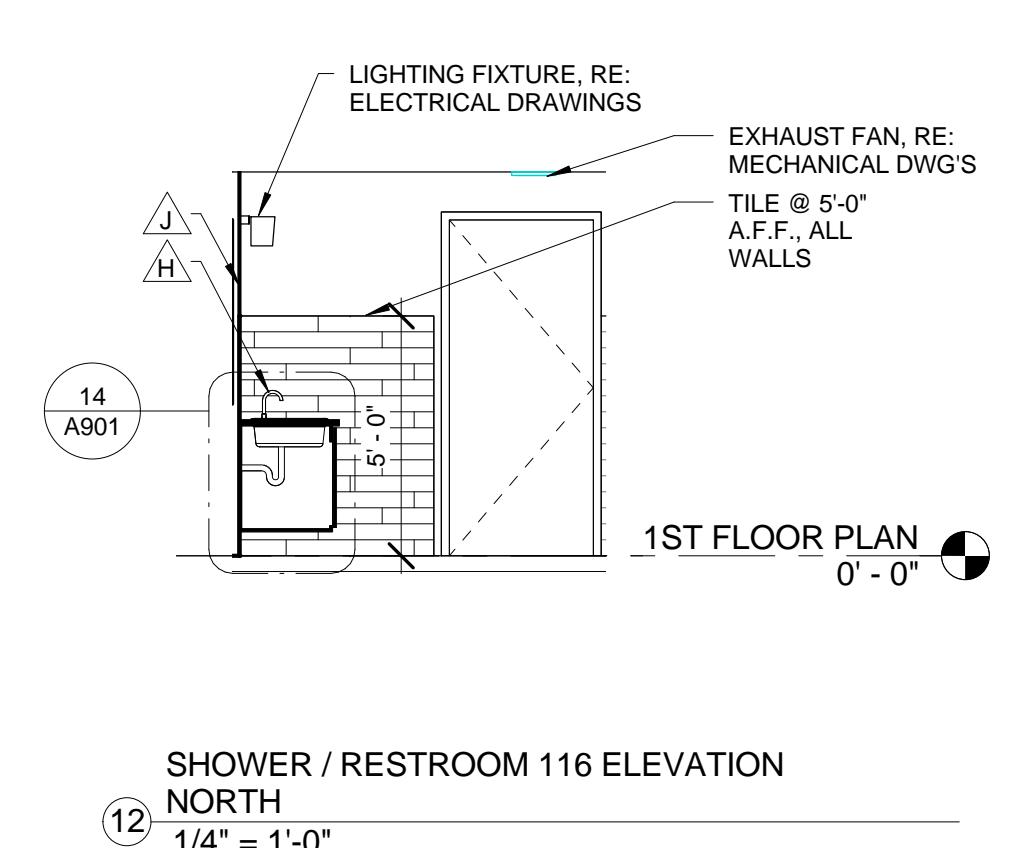
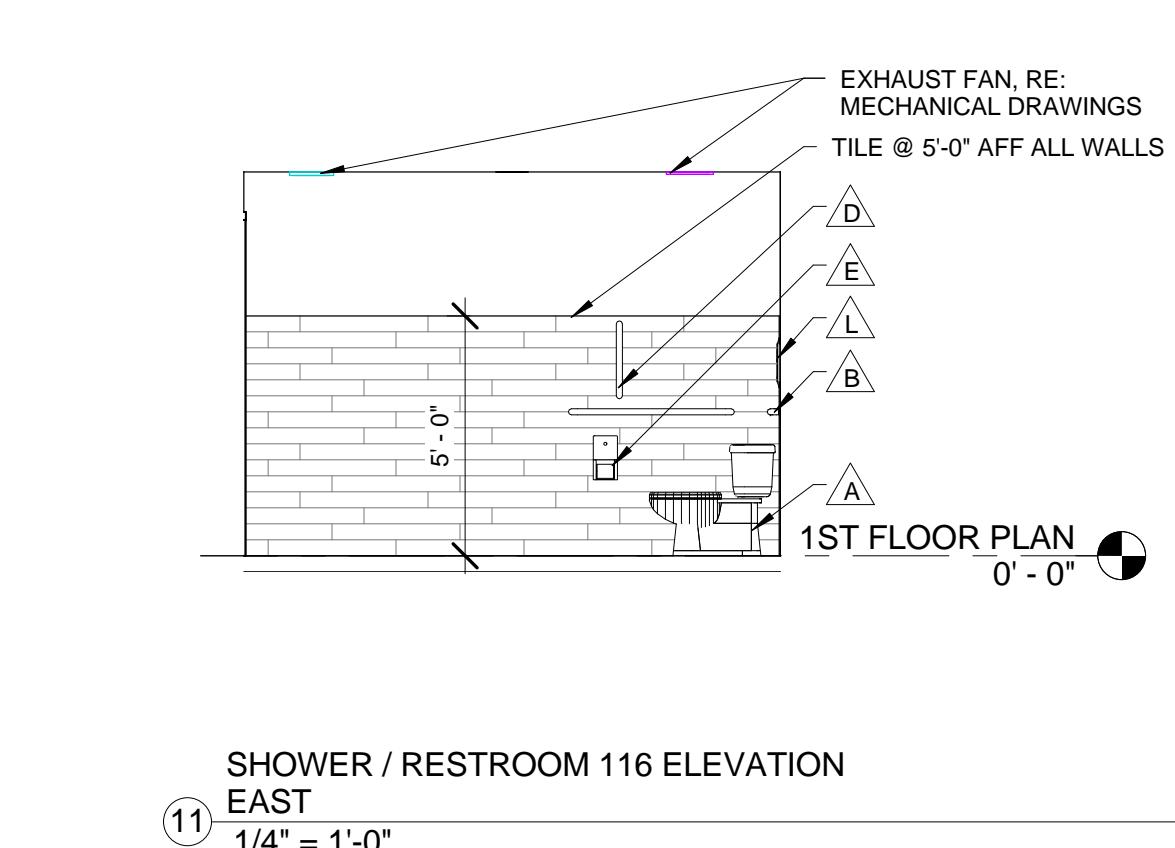
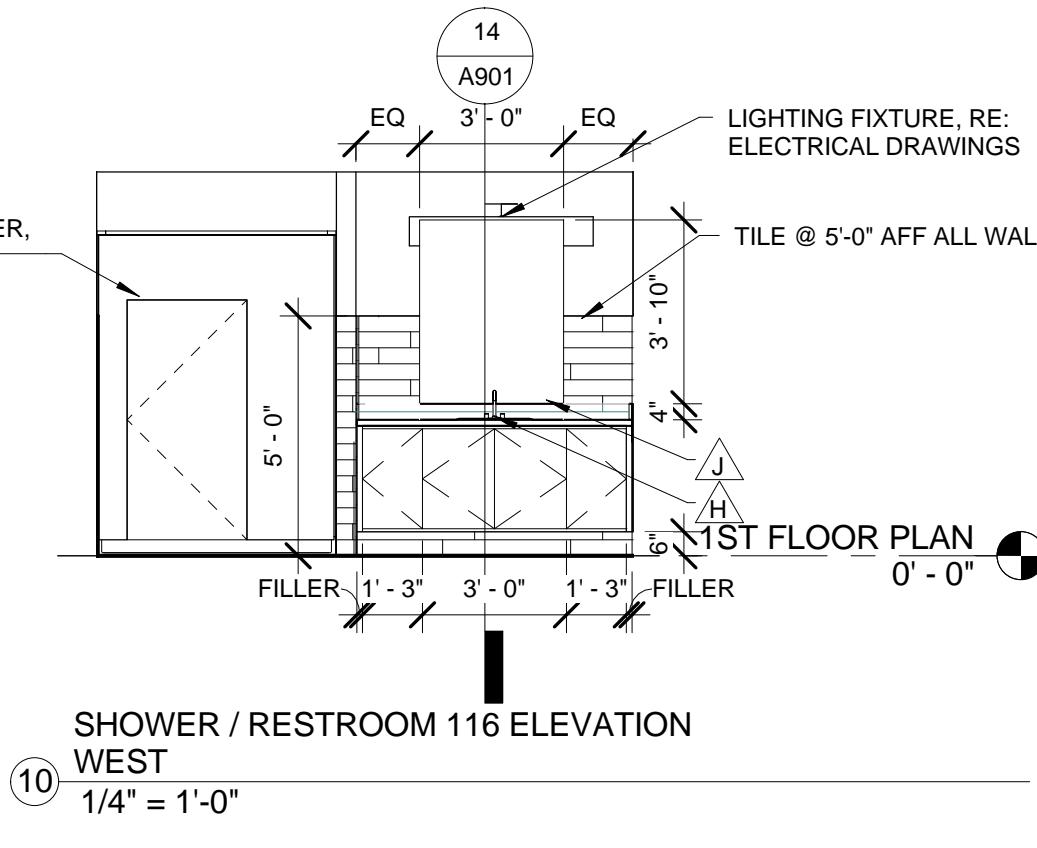
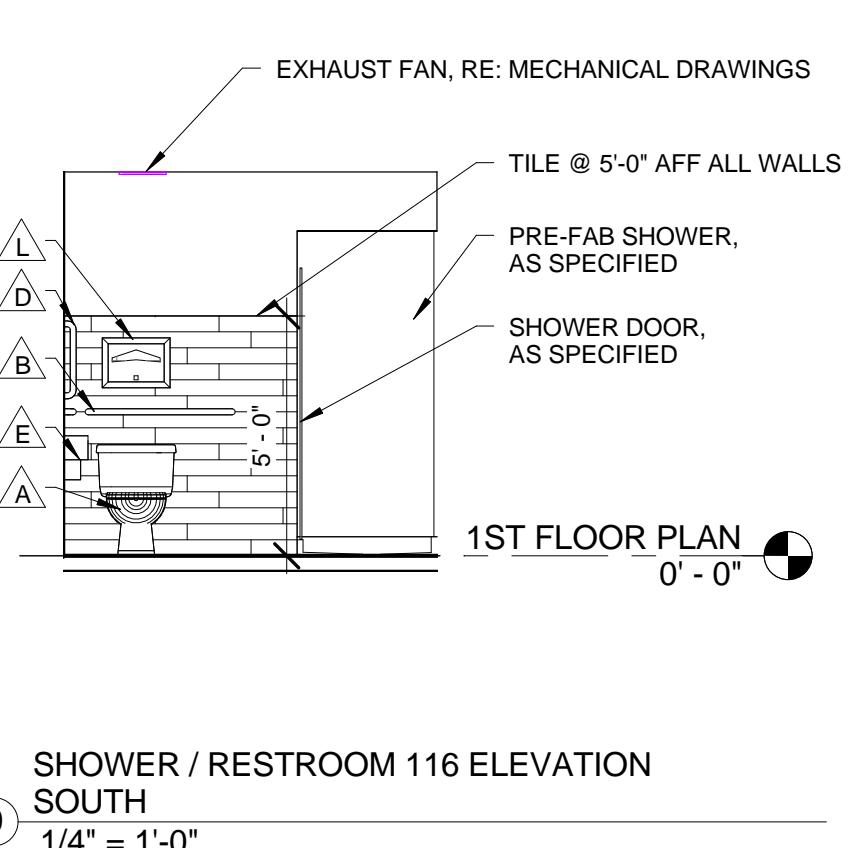
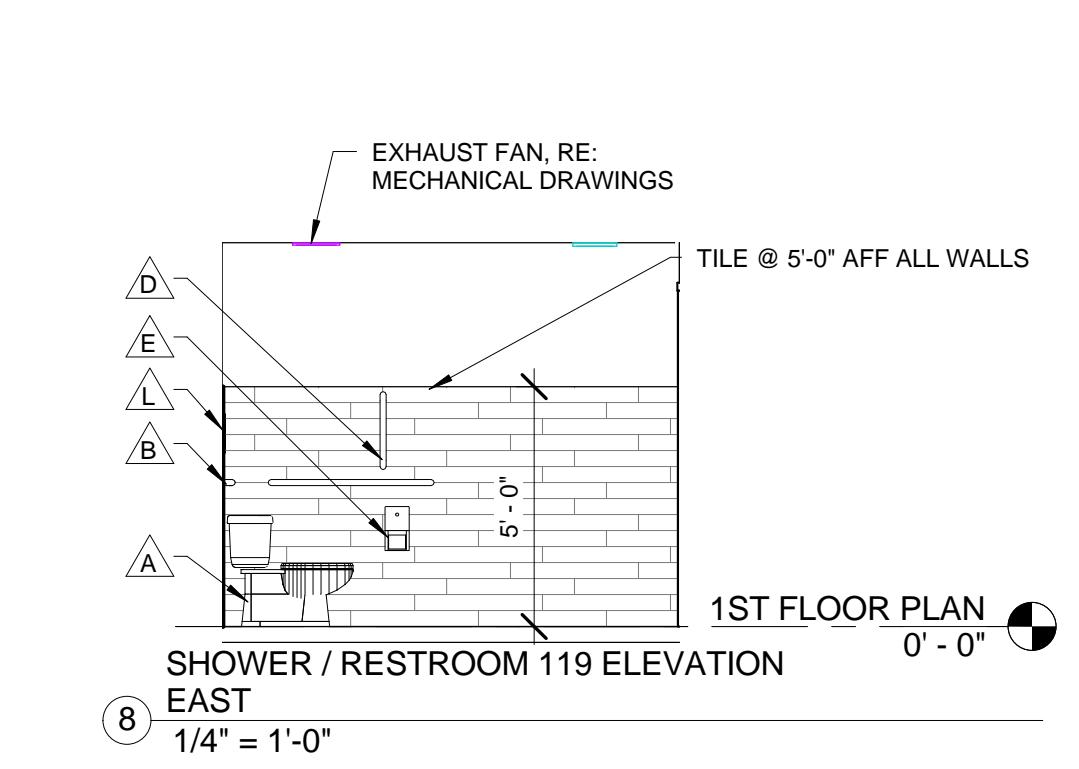
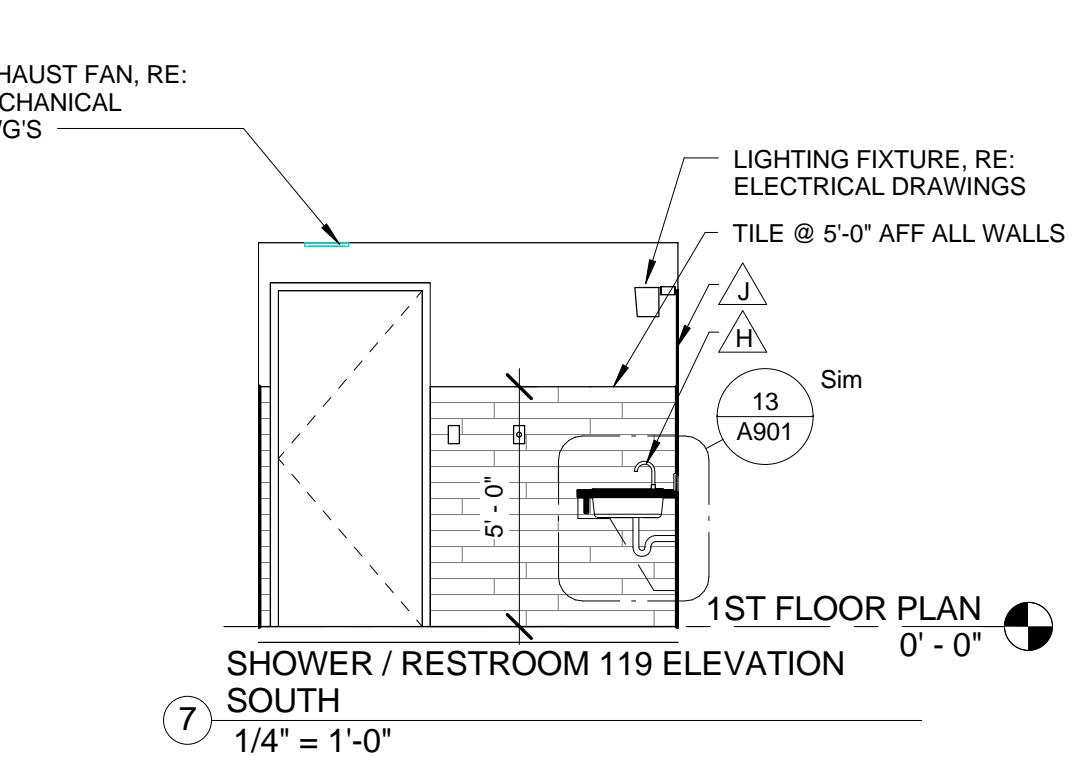
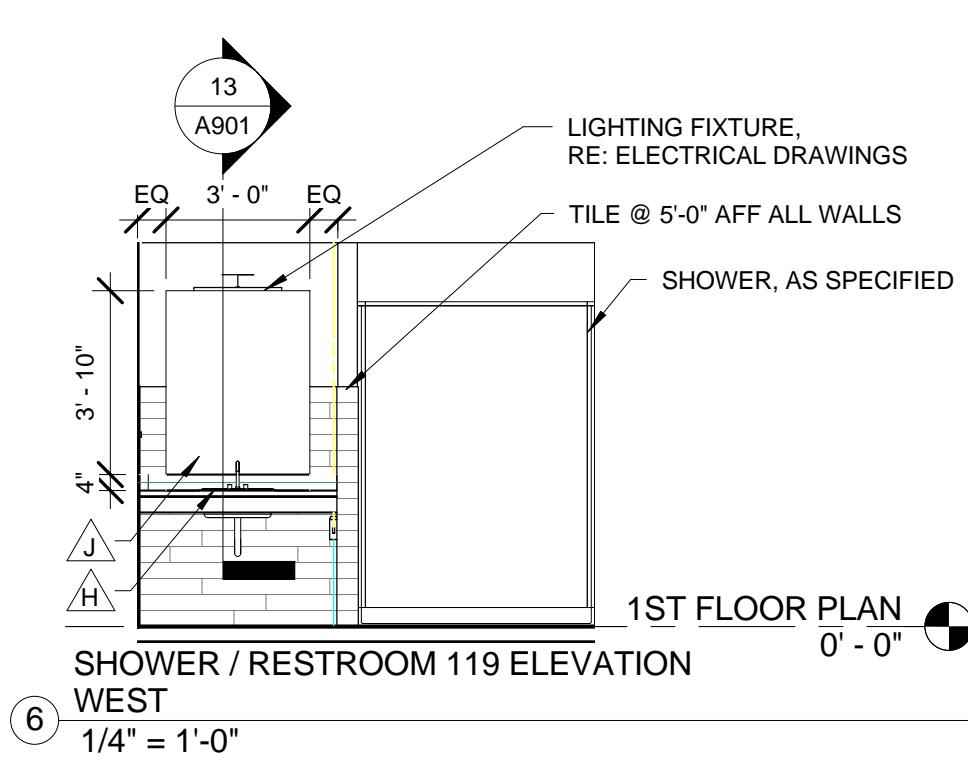
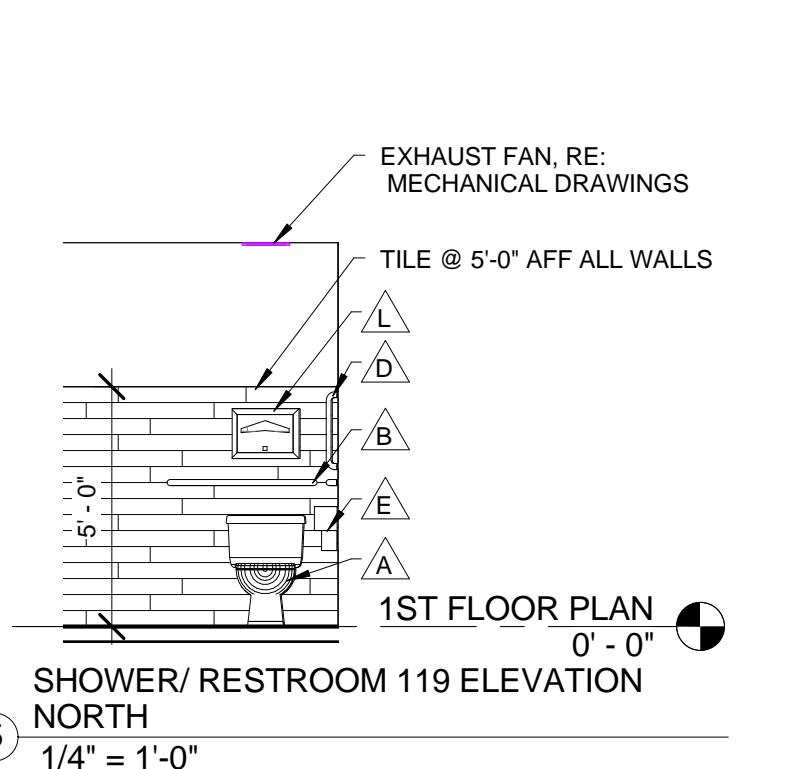
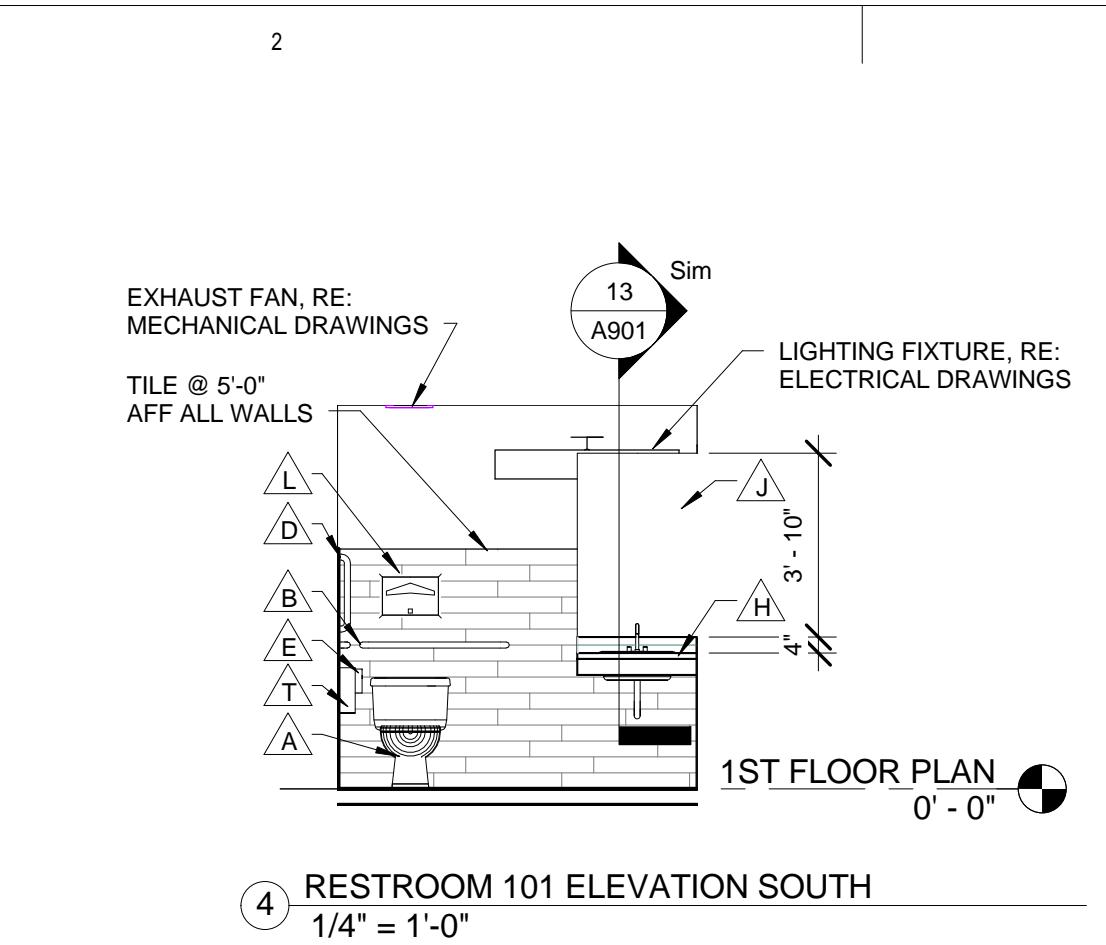
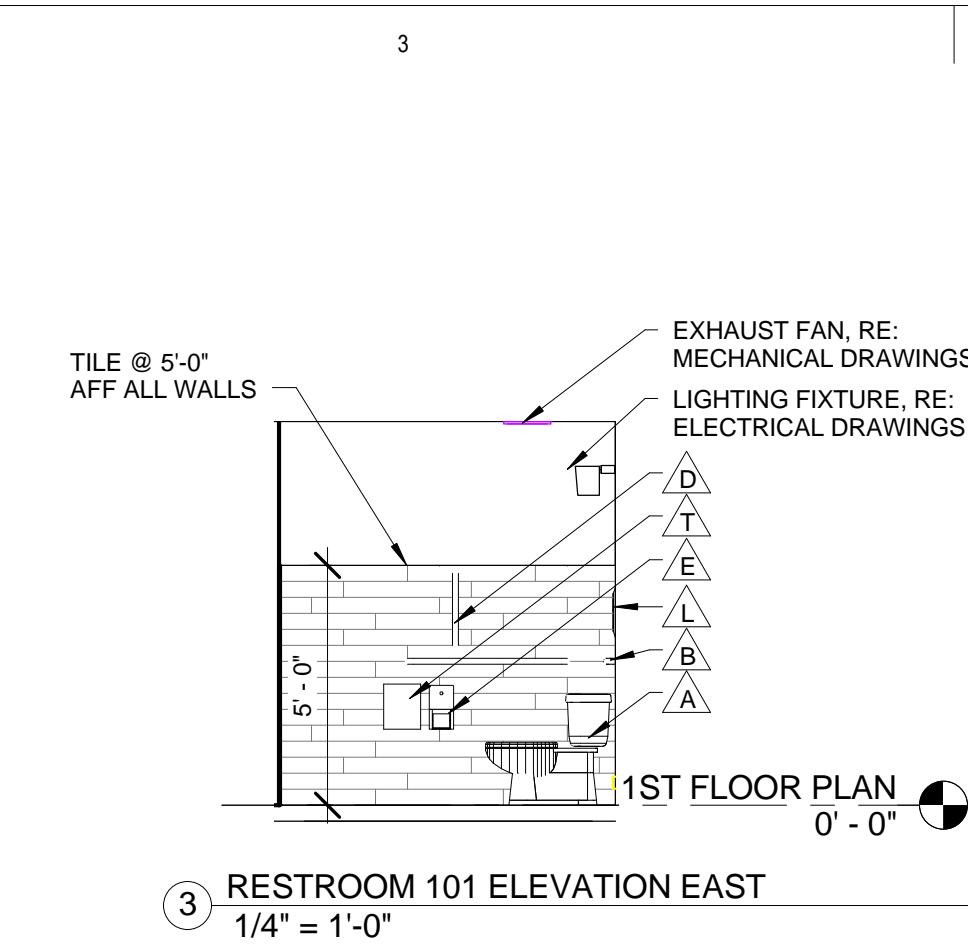
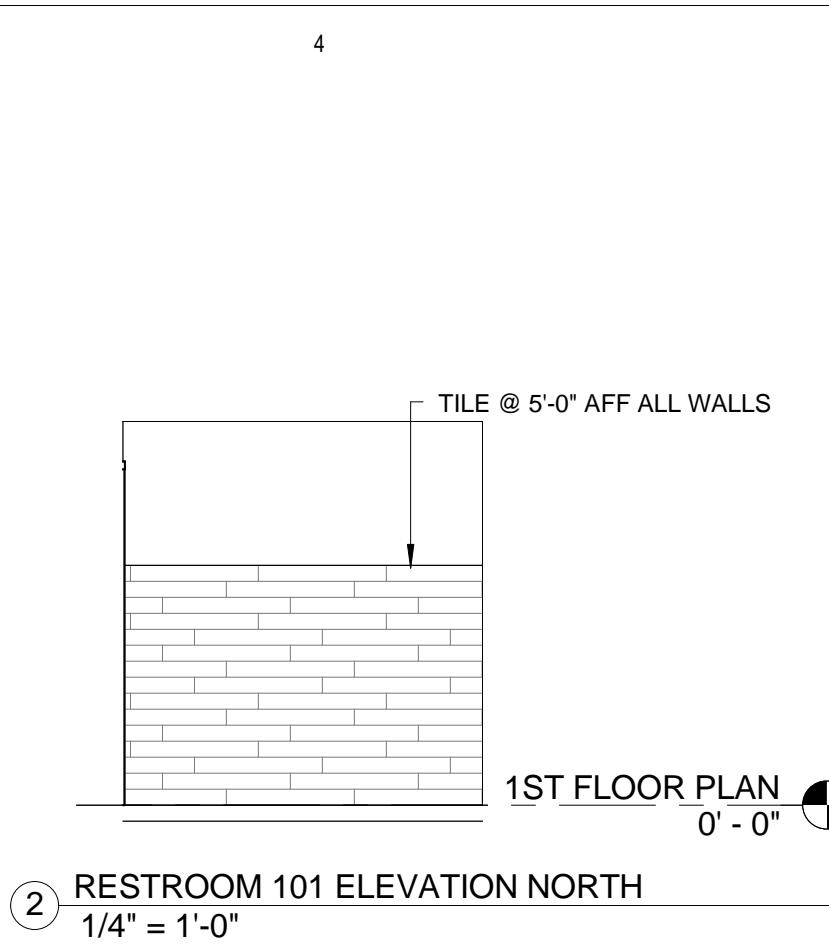
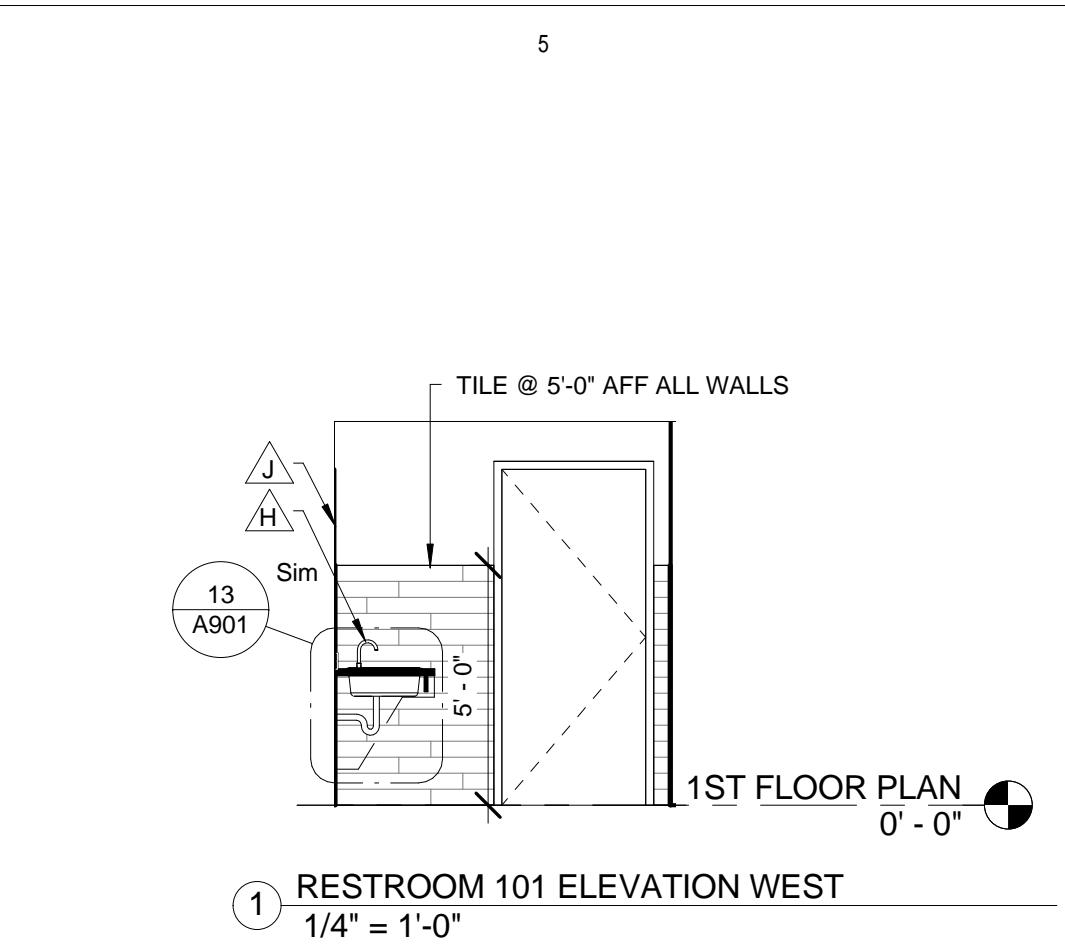
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|-------------------|----------------------|
| PROJECT PHASE     | 75% CD's             |
| PROJECT NUMBER    | 15-28                |
| PROJECT MANAGER   | R. TeBeau            |
| PROJECT ARCHITECT | R. TeBeau            |
| DESIGN            | B. Harris, R. TeBeau |
| DRAWN BY          | Author               |

SHEET NAME:

## INTERIOR ELEVATIONS AND DETAILS

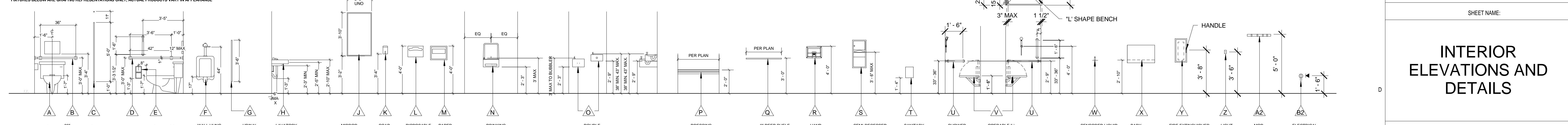
A900

01.29.16



PROVIDE SOLID BLOCKING OR OTHER SUITABLE BACKING AT LOCATIONS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: EDGES INVOLVING SHEET ROCK, TILES, GLASS, METAL, PLASTIC, SHEET METAL, HANDRAILS, WALL MOUNTED EQUIPMENT, INCLUDING EQUIPMENT FURNISHED BY OWNER. PROVIDE STEEL BACKING FOR GRAB BARS ATTACHED TO PARTITIONS. EXTEND BACKING 6" BEYOND OUTLINE OF EQUIPMENT.

\* FIXTURES BELOW ARE GRAPHIC REPRESENTATIONS ONLY, ACTUAL PRODUCTS VARY IN APPEARANCE



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3  
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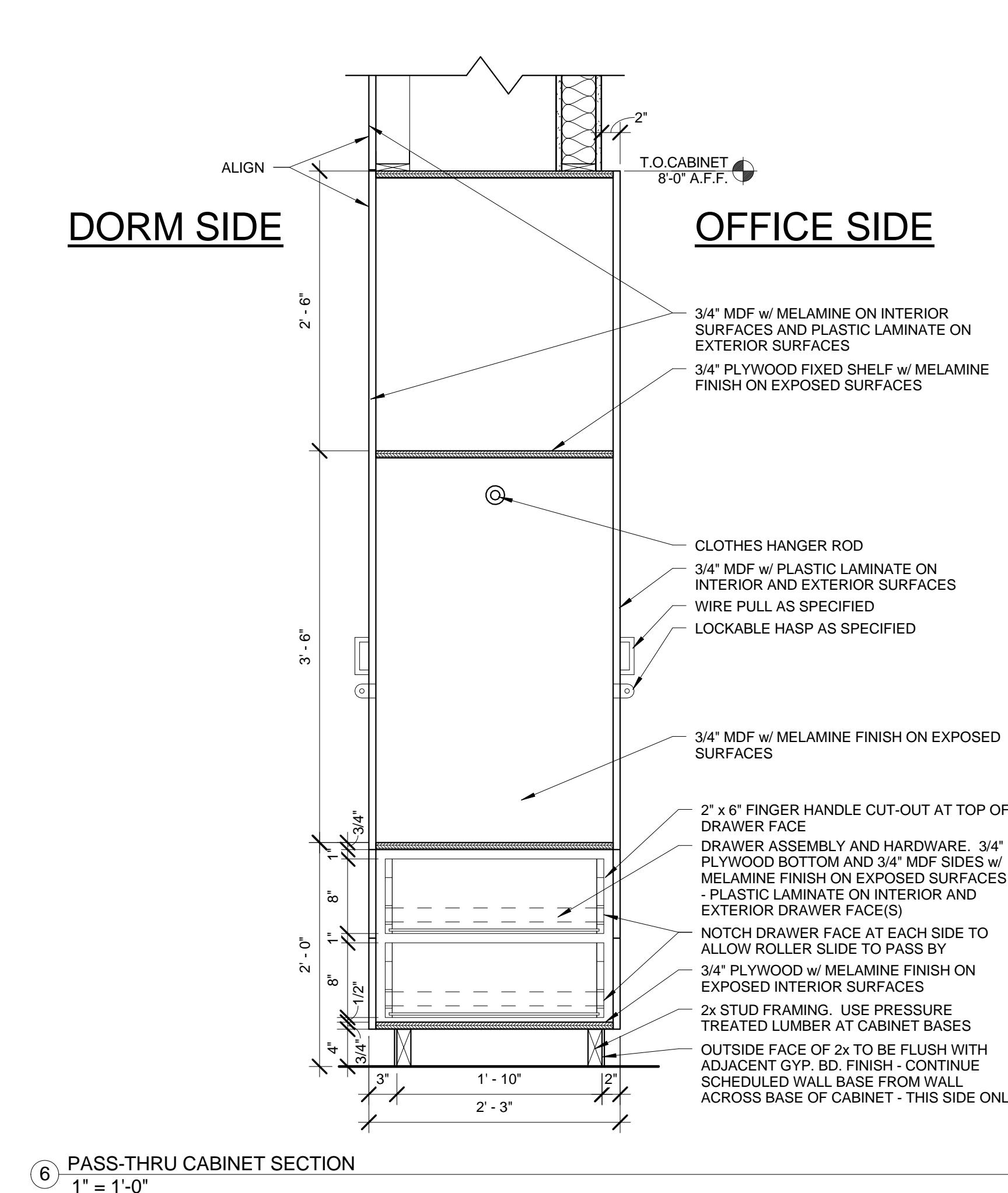
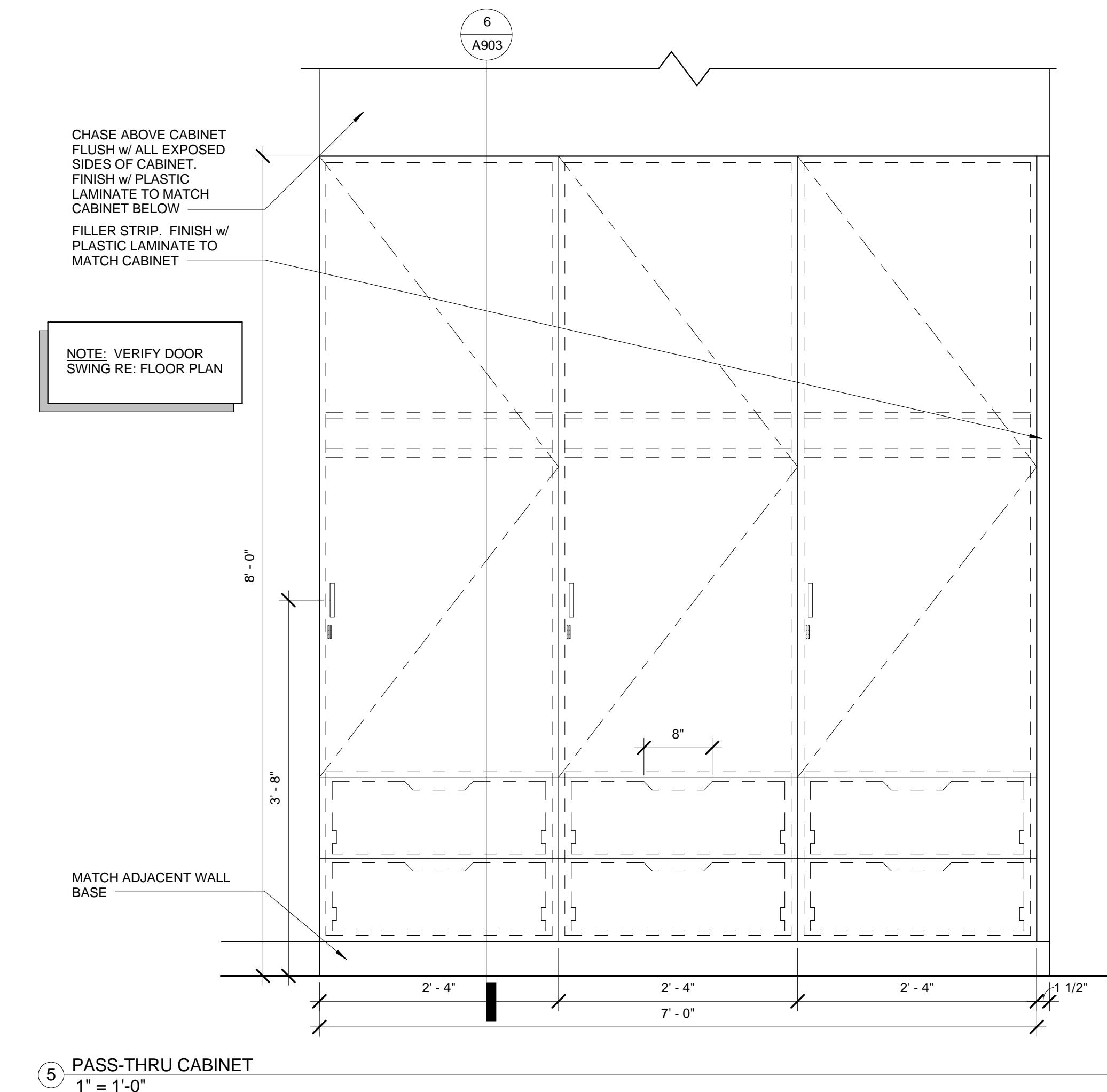
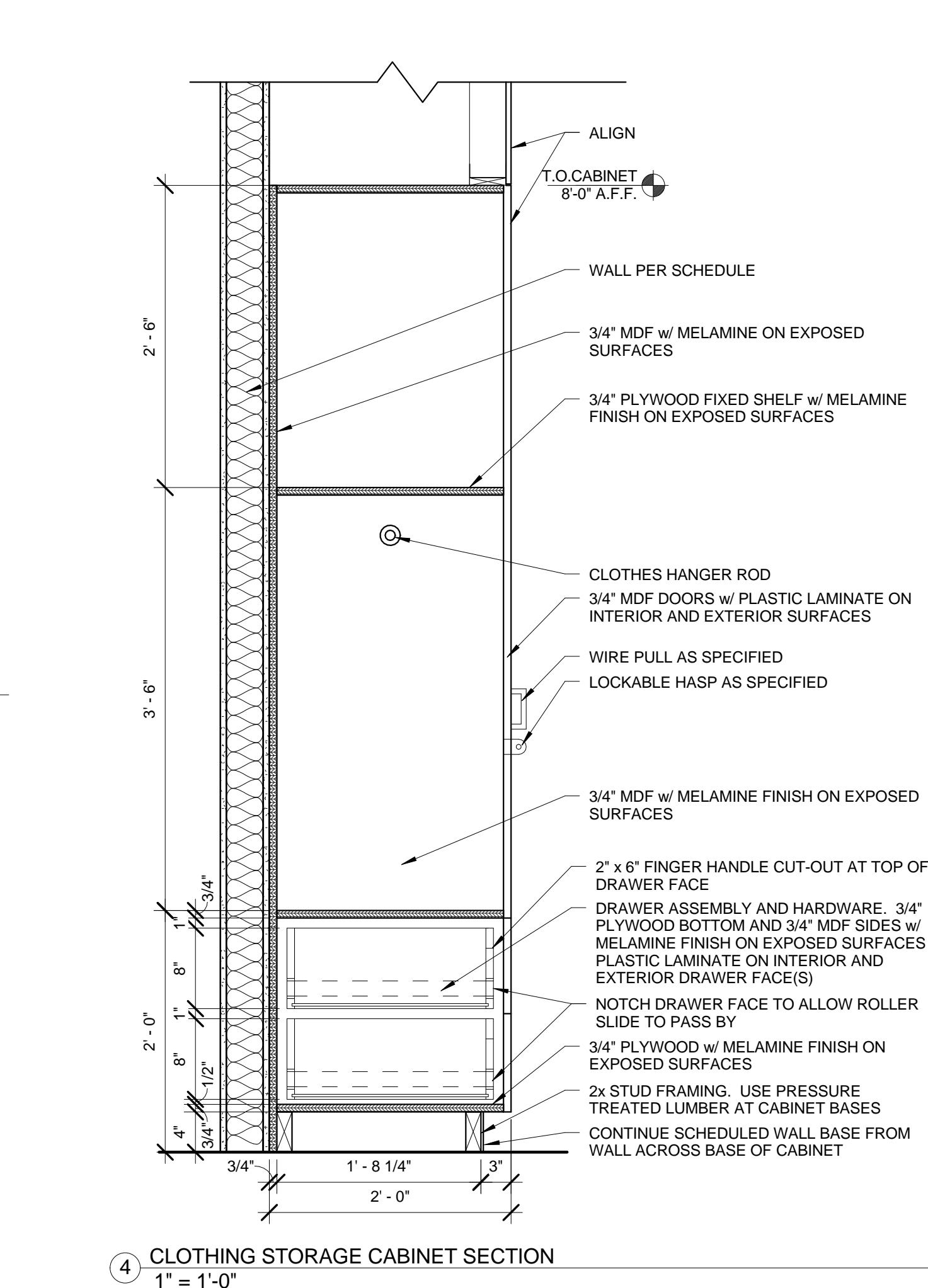
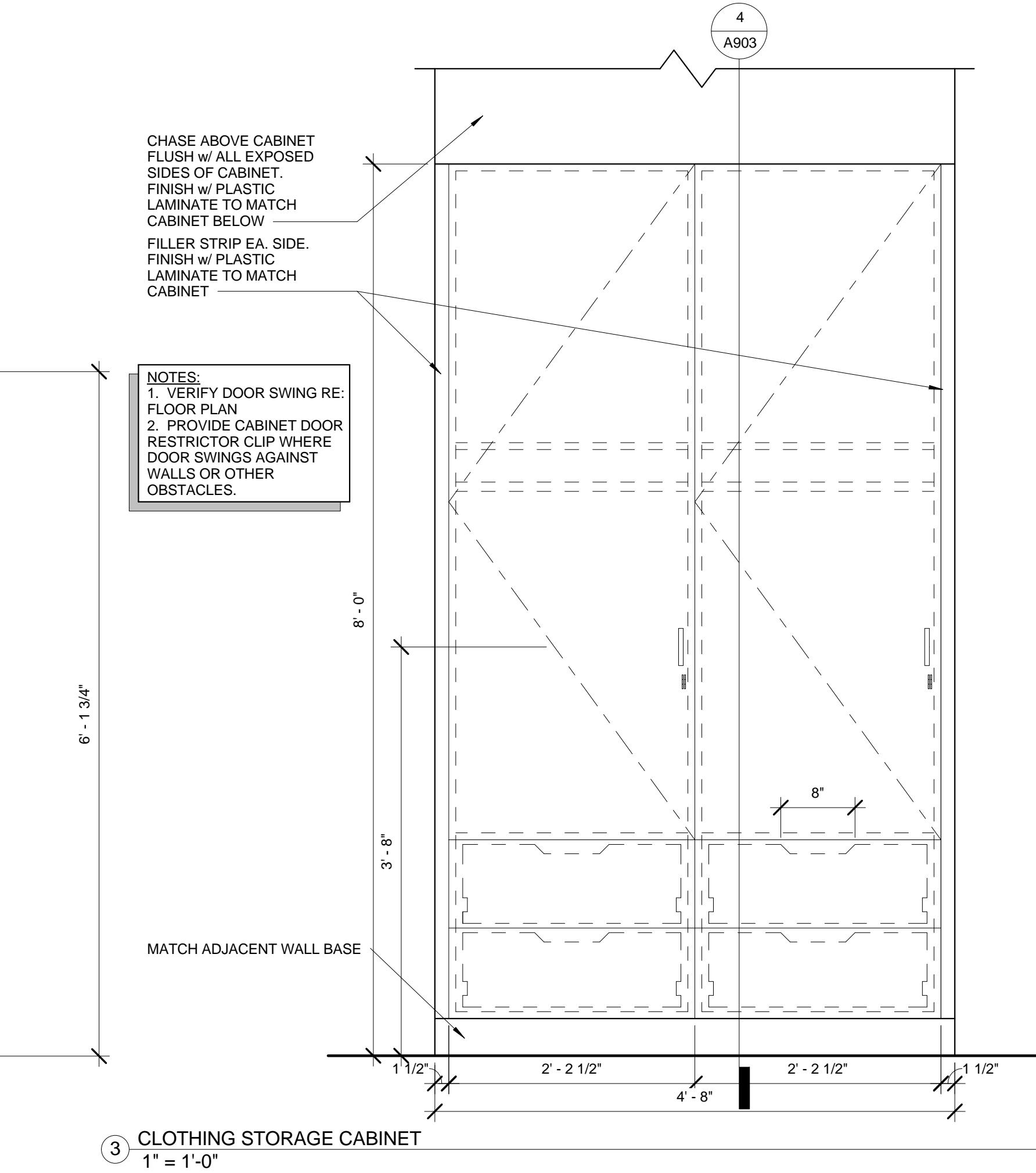
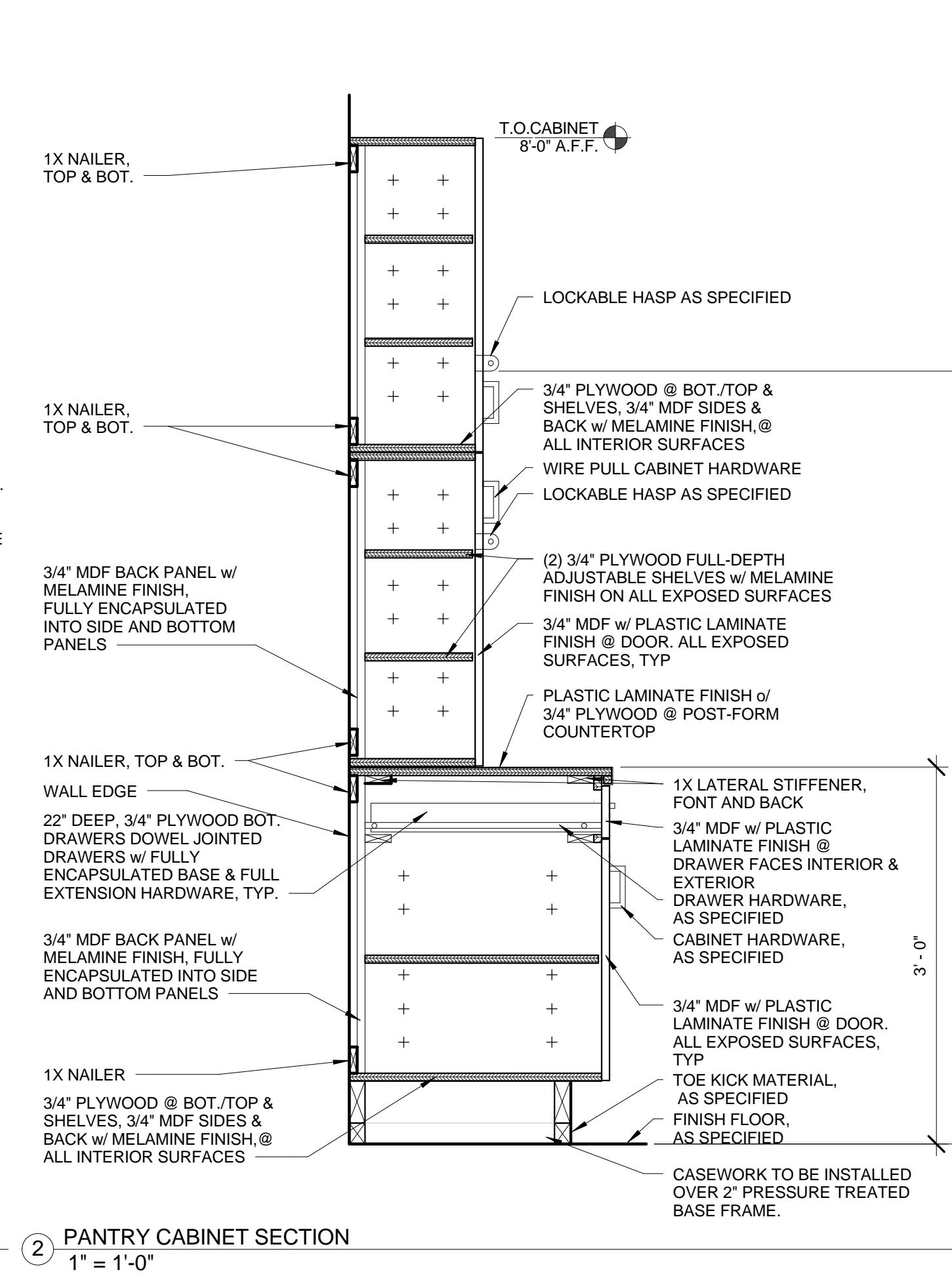
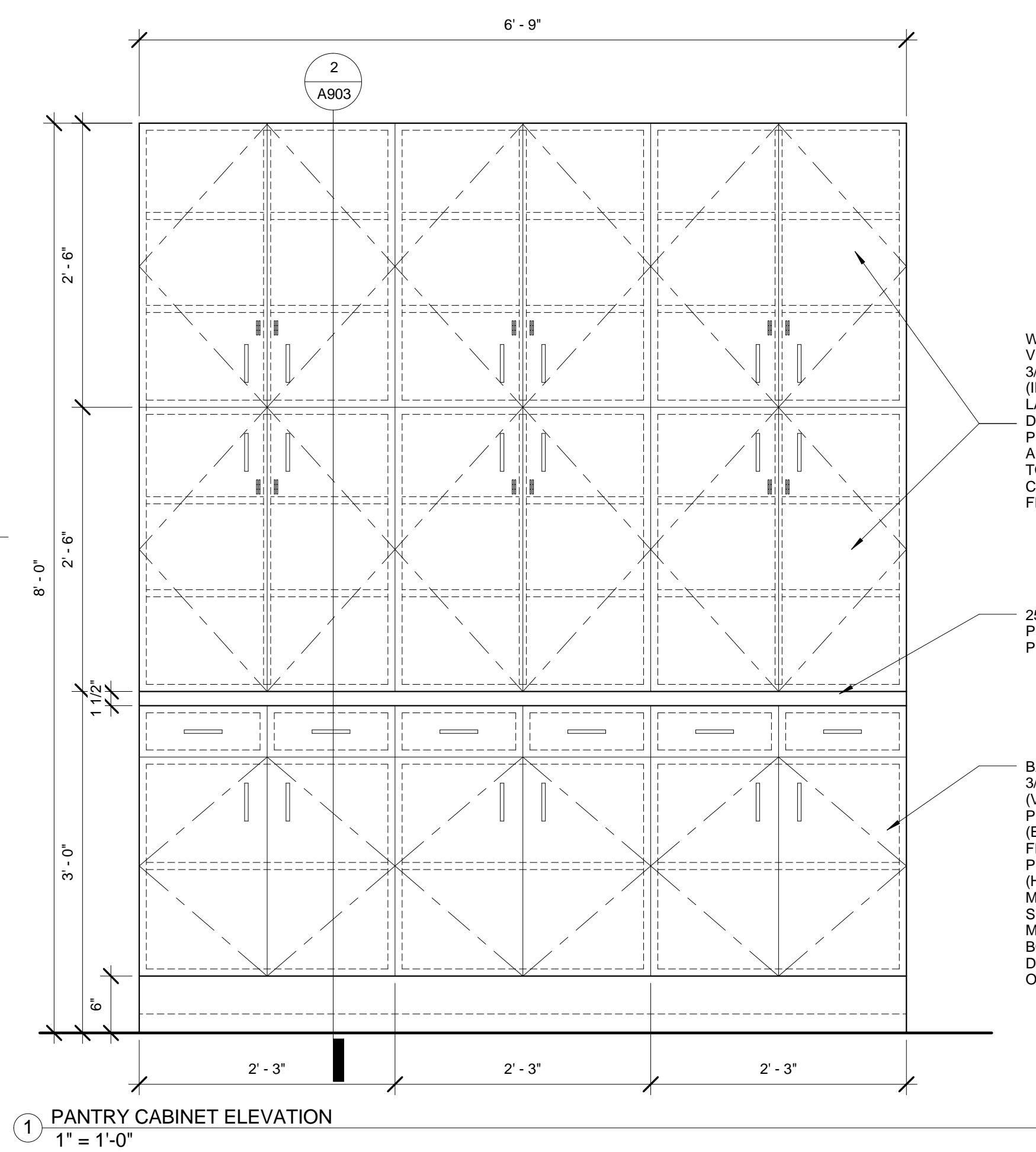




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CONSULTANT:



**City of Boise Fire Station 8**  
3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

PROJECT PHASE: 75% CD's

PROJECT NUMBER: 15-28

PROJECT MANAGER: R. TeBeau

PROJECT ARCHITECT: R. TeBeau

DESIGN: B. Harris/R. TeBeau

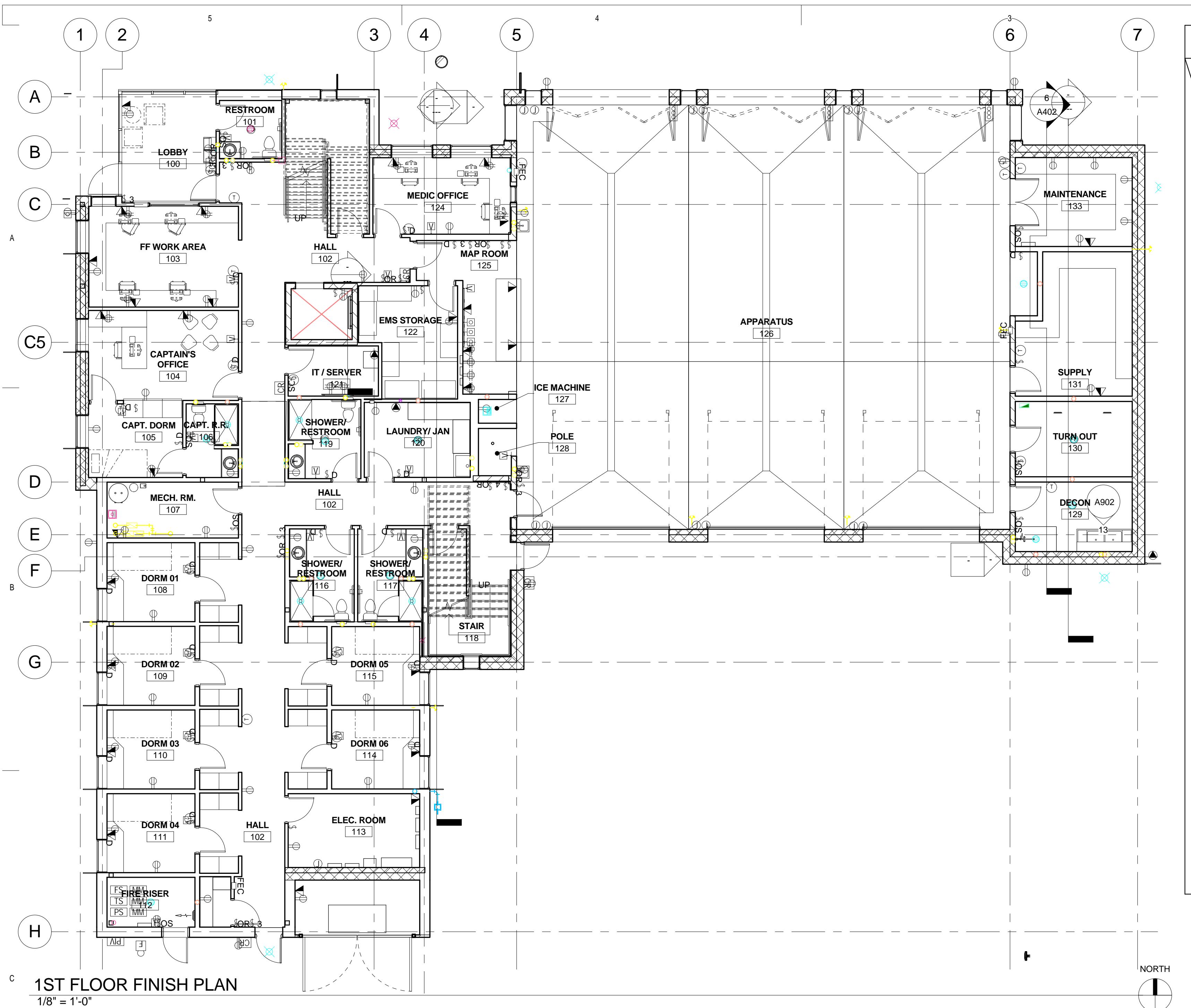
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SHEET NAME:

**CABINET DETAILS**

SHEET NUMBER:

**A903**



1ST FLOOR FINISH PLAN

1/8" = 1'-0"

ROOM FINISH SCHEDULE - 1st floor

| LEVEL     | NO. | NAME             | FLOOR    |      | WALLS    |                         |               |                         | CEILING       |                         |          | NOTES |
|-----------|-----|------------------|----------|------|----------|-------------------------|---------------|-------------------------|---------------|-------------------------|----------|-------|
|           |     |                  | FINISH   | BASE | MATERIAL | NORTH FINISH            | EAST MATERIAL | SOUTH FINISH            | WEST MATERIAL | FINISH                  | MATERIAL |       |
| 1ST FLOOR | 100 | LOBBY            | P CONC-1 | T-1  | GYPBD    | PT-1                    | GYPBD         | PT-1                    | GYPBD         | PT-1                    | ACT-1    | -     |
| 1ST FLOOR | 101 | RESTROOM         | P CONC-1 | T-2  | GYPBD    | EPOXY                   | GYPBD         | T-2 @ 5'-0" EPOXY ABOVE | GYPBD         | T-2 @ 5'-0" EPOXY ABOVE | GYPBD    | PT-1  |
| 1ST FLOOR | 102 | HALL             | P CONC-1 | T-1  | GYPBD    | PT-1                    | GYPBD         | PT-1                    | GYPBD         | PT-1                    | ACT-1    | -     |
| 1ST FLOOR | 103 | FF WORK AREA     | P CONC-1 | T-1  | GYPBD    | PT-1                    | GYPBD         | PT-1                    | GYPBD         | PT-1                    | ACT-1    | -     |
| 1ST FLOOR | 104 | CAPTAIN'S OFFICE | P CONC-1 | T-1  | GYPBD    | PT-1                    | GYPBD         | PT-1                    | GYPBD         | PT-1                    | ACT-1    | -     |
| 1ST FLOOR | 105 | CAPT. DORM       | P CONC-1 | T-1  | GYPBD    | PT-1                    | GYPBD         | PT-1                    | GYPBD         | PT-1                    | ACT-1    | -     |
| 1ST FLOOR | 106 | CAPT. R.R.       | P CONC-1 | T-2  | GYPBD    | EPOXY                   | GYPBD         | T-2 @ 5'-0" EPOXY ABOVE | GYPBD         | T-2 @ 5'-0" EPOXY ABOVE | GYPBD    | PT-1  |
| 1ST FLOOR | 107 | MECH. RM.        | P CONC-1 | T-1  | GYPBD    | PT-1                    | GYPBD         | PT-1                    | GYPBD         | PT-1                    | ACT-1    | -     |
| 1ST FLOOR | 108 | DORM 01          | P CONC-1 | T-1  | GYPBD    | PT-1                    | GYPBD         | PT-1                    | GYPBD         | PT-1                    | ACT-1    | -     |
| 1ST FLOOR | 109 | DORM 02          | P CONC-1 | T-1  | GYPBD    | PT-1                    | GYPBD         | PT-1                    | GYPBD         | PT-1                    | ACT-1    | -     |
| 1ST FLOOR | 110 | DORM 03          | P CONC-1 | T-1  | GYPBD    | PT-1                    | GYPBD         | PT-1                    | GYPBD         | PT-1                    | ACT-1    | -     |
| 1ST FLOOR | 111 | DORM 04          | P CONC-1 | T-1  | GYPBD    | PT-1                    | GYPBD         | PT-1                    | GYPBD         | PT-1                    | ACT-1    | -     |
| 1ST FLOOR | 112 | FIRE RISER       | P CONC-1 | T-1  | GYPBD    | PT-1                    | GYPBD         | PT-1                    | GYPBD         | PT-1                    | -        | -     |
| 1ST FLOOR | 113 | ELEC. ROOM       | P CONC-1 | T-1  | GYPBD    | PT-1                    | GYPBD         | PT-1                    | GYPBD         | PT-1                    | ACT-1    | -     |
| 1ST FLOOR | 114 | DORM 06          | P CONC-1 | T-1  | GYPBD    | PT-1                    | GYPBD         | PT-1                    | GYPBD         | PT-1                    | ACT-1    | -     |
| 1ST FLOOR | 115 | DORM 05          | P CONC-1 | T-1  | GYPBD    | PT-1                    | GYPBD         | PT-1                    | GYPBD         | PT-1                    | ACT-1    | -     |
| 1ST FLOOR | 116 | SHOWER/ RESTROOM | P CONC-1 | T-2  | GYPBD    | EPOXY                   | GYPBD         | T-2 @ 5'-0" EPOXY ABOVE | GYPBD         | EPOXY                   | GYPBD    | PT-1  |
| 1ST FLOOR | 117 | SHOWER/ RESTROOM | P CONC-1 | T-2  | GYPBD    | EPOXY                   | GYPBD         | T-2 @ 5'-0" EPOXY ABOVE | GYPBD         | T-2 @ 5'-0" EPOXY ABOVE | GYPBD    | PT-1  |
| 1ST FLOOR | 118 | STAIR            |          | T-1  |          |                         |               |                         |               |                         |          |       |
| 1ST FLOOR | 119 | SHOWER/ RESTROOM | P CONC-1 | T-2  | GYPBD    | T-2 @ 5'-0" EPOXY ABOVE | GYPBD         | T-2 @ 5'-0" EPOXY ABOVE | GYPBD         | EPOXY                   | GYPBD    | PT-1  |
| 1ST FLOOR | 120 | LAUNDRY/JAN      | P CONC-1 | T-1  | GYPBD    | PT-1                    | GYPBD         | PT-1                    | GYPBD         | PT-1                    | ACT-1    | -     |
| 1ST FLOOR | 121 | IT / SERVER      | P CONC-1 | T-1  | GYPBD    | PT-1                    | GYPBD         | PT-1                    | GYPBD         | PT-1                    | ACT-1    | -     |
| 1ST FLOOR | 122 | EMS STORAGE      | P CONC-1 | T-1  | GYPBD    | EPOXY                   | GYPBD         | EPOXY                   | GYPBD         | EPOXY                   | GYPBD    | PT-1  |
| 1ST FLOOR | 123 | STORAGE          | P CONC-1 | T-1  | GYPBD    | PT-1                    | GYPBD         | PT-1                    | GYPBD         | PT-1                    | -        | PT-1  |
| 1ST FLOOR | 124 | MEDIC OFFICE     | P CONC-1 | T-1  | GYPBD    | PT-1                    | GYPBD         | PT-1                    | GYPBD         | PT-1                    | ACT-1    | -     |
| 1ST FLOOR | 125 | MAP ROOM         | P CONC-1 | -    | CMU      | EPOXY                   | -             | -                       | CMU           | EPOXY                   | CMU      | EPOXY |
| 1ST FLOOR | 126 | APPARATUS        | P CONC-2 | -    | CMU      | EPOXY                   | CMU           | EPOXY                   | CMU           | EPOXY                   | CMU      | EPOXY |
| 1ST FLOOR | 127 | ICE MACHINE      | P CONC-1 | -    | CMU      | EPOXY                   | -             | -                       | CMU           | EPOXY                   | CMU      | EPOXY |
| 1ST FLOOR | 128 | POLE             | P CONC-1 | -    | CMU      | EPOXY                   | -             | -                       | CMU           | EPOXY                   | CMU      | EPOXY |
| 1ST FLOOR | 129 | DECON            | P CONC-1 | -    | CMU      | EPOXY                   | CMU           | EPOXY                   | CMU           | EPOXY                   | CMU      | EPOXY |
| 1ST FLOOR | 130 | TURN OUT         | P CONC-1 | -    | CMU      | EPOXY                   | CMU           | EPOXY                   | CMU           | EPOXY                   | CMU      | EPOXY |
| 1ST FLOOR | 131 | SUPPLY           | P CONC-1 | -    | CMU      | EPOXY                   | CMU           | EPOXY                   | CMU           | EPOXY                   | CMU      | EPOXY |
| 1ST FLOOR | 132 | WASH ALCOVE      | P CONC-1 | -    | CMU      | EPOXY                   | CMU           | EPOXY                   | CMU           | EPOXY                   | CMU      | EPOXY |
| 1ST FLOOR | 133 | MAINTENANCE      | P CONC-1 | -    | CMU      | EPOXY                   | CMU           | EPOXY                   | CMU           | EPOXY                   | CMU      | EPOXY |
| 1ST FLOOR | 134 | CLOSET           | P CONC-1 | T-1  | GYPBD    | PT-1                    | GYPBD         | PT-1                    | GYPBD         | PT-1                    | ACT-1    | -     |
| 1ST FLOOR | 135 | STORAGE          | P CONC-1 | T-1  | GYPBD    | PT-1                    | GYPBD         | PT-1                    | GYPBD         | PT-1                    | ACT-1    | -     |

### FINISH SPECIFICATIONS:

STAIR NOSING  
PRECAST CONCRETE  
PT-1 (PAINT)  
MANUFACTURER: BENJAMIN MOORE  
COLOR: OC-131, WHITE DOWN  
FINISH: SATIN  
PT-2 (PAINT)  
MANUFACTURER: BENJAMIN MOORE  
COLOR: 2063-30 BLUEBERRY  
FINISH: SATIN  
PT-3 (PAINT)  
MANUFACTURER: BENJAMIN MOORE  
COLOR: 2112-10 MINK  
FINISH: SEMIGLOSS  
LAM-1 (LAMINATE)  
MANUFACTURER: WILSONART  
COLOR: MONTANA WALNUT, #7110K-78  
LAM-2 (LAMINATE)  
PROVIDE STANDARD WHITE LAMINATE. SUBMIT TO ARCHITECT FOR APPROVAL.  
LAM-3 (LAMINATE)  
MANUFACTURER: WILSONART  
COLOR: PERPENDUR, #D227-60  
TRIM: E.B. BRADLY CO. MOD #: FUTM-91BA & FUTM-81BA (SUPPLY AT ALL WALL MOUNTED AREAS)  
SS-1 (SOLID SURFACE)  
MANUFACTURER: CAMBRIA  
COLOR: SNOWDON WHITE  
BS-1 (BACKSPASH)  
MANUFACTURER: CROSSVILLE  
STYLE: EBB & FLOW STICKS AND STONES - LINEAR MIXED MOSAICS  
COLOR: 1MIXMOS  
GROUT: TEC, POWER GROUT, COLOR #994, DARK WALNUT.  
VEEN-1 (VENEER)  
MANUFACTURER: MARSHFIELD  
SPECIES: WALNUT  
VENEER CUT: PLAIN SLICED  
FINISH: CLEAR  
CONC-1  
POLISHED CONCRETE (LIGHT SAND & PENETRATING SEALER)  
CONC-2  
SEALED CONCRETE  
CONC-3  
SMOOTH SLAB ON GRADE.  
P CONC-1  
POLISHED CONCRETE  
T-1 (TILE)  
MANUFACTURER: CROSSVILLE  
NAME: MARBLE PORCELAIN STONE  
COLOR NAME: AV233, CAMEL UPS  
SIZE: 6" X 16"  
INSTALLATION: BRICK PATTERN  
GROUT: 1/8" JOINT; TEC, POWER GROUT, COLOR # 915 LIGHT SMOKE  
T-2 (TILE)  
MANUFACTURER:  
NAME:  
COLOR NAME:  
SIZE:  
INSTALLATION:  
GROUT:  
NOTE:  
ALL FINISH MANUFACTURERS SPECIFIED ARE "BASIS OF DESIGN." PRIOR TO BIDDING, SUBMIT "FOR EQUAL" PRODUCTS TO ARCHITECT FOR REVIEW/APPROVAL.

### GENERAL NOTES FINISH PLAN:

- A. REFER TO ARCHITECTURAL FLOOR, ELEVATION AND FINISH PLANS.
- B. ALL TILE TO BE INSTALLED PER RECOMMENDATIONS ESTABLISHED BY THE TILE COUNCIL OF NORTH AMERICA.
- C. UNLESS NOTED OTHERWISE, CASEWORK TO BE CONSTRUCTED AS FOLLOWS: VERTICAL ELEMENTS TO BE 3/4" MDF w/ MELAMINE FINISH (INTERIOR) & PLASTIC LAMINATE FINISH (EXTERIOR). DOORS/DRAWERS (ALL SURFACES) TO BE 3/4" MDF w/ PLASTIC LAMINATE FINISH. HORIZONTAL ELEMENTS TO BE 3/4" PLYWOOD CONSTRUCTION w/ MELAMINE FINISH (INTERIOR). LAM-1 AT COUNTERTOPS, INCLUDING BACKSPLASHES, J.N.O. PROVIDE MIN. 3MM EDGE BANDING. REFER TO ELEVATIONS FOR MILLWORK FINISH LOCATIONS.
- D. PROVIDE CONTROL JOINTS AT TRANSITION BETWEEN WALL AND GYP BOARD SOFFIT.
- E. PROVIDE FULL MANUFACTURER'S STANDARD COLOR SAMPLES TO ARCHITECT FOR APPROVAL FOR THE FOLLOWING ITEMS: MISCELLANEOUS METALS, FIRE EXTINGUISHER CABINETS, CABINET UNIT HEATERS, ELECTRICAL PANELS, ACCESS PANELS LOCATED IN GYP BOARD CEILINGS.
- F. PROVIDE A THIN, CLEAR, SILICONE BEAD (1/8") AT PERIMETER OF ALL DOOR FRAMES AND BROWSED GLASS LITES AFTER INSTALLATION OF SCHEDULED WALL COVERINGS. DOOR FRAMES ON PAINTED WALLS SHOULD RECEIVE THIN, PAINTABLE SILICONE BEAD (1/8") AT PERIMETER PRIOR TO PAINTING, ONLY WHERE THE FRAME DOES NOT MEET THE WALL.
- G. PROVIDE OWNER'S STOCK IN THE FLOWING QUANTITIES:  
"CERAMIC TILE/PORCELAIN TILE" 1/2 CARTON OF EACH TYPE AND COLOR OF TILE SPECIFIED  
"ACOUSTICAL CEILING TILE" 100 SQUARE FEET OF EACH TYPE OF ACOUSTICAL UNIT SPECIFIED, PLUS 20 LINEAL FEET OF EXPOSED SUSPENSION SYSTEM COMPONENTS.  
PAINT: 1 GALLON OF EACH COLOR.
- H. PROVIDE SHOWER CURTAIN AT ADA SHOWER. PROVIDE DOOR AT ALL OTHER SHOWERS.
- I. WINDOW SILLS TO RECEIVE SOLID SURFACING WHITE LAMINATE UNLESS OTHERWISE NOTED. ALL SOLID SURFACE EDGES TO HAVE AN EASED EDGE.
- J. AT ROOMS WITH EXPOSED CEILING, PAINT WALLS TO UNDERSIDE OF STRUCTURE ABOVE. PAINT EXPOSED STRUCTURAL MEMBERS.
- K. AT GYPSUM BOARD CEILINGS, PROVIDE FACTORY FINISH STANDARD CHROME SEMI-RECESSED SPRINKLER HEAD COVERS TO MATCH COLOR OF ADJACENT CEILING FINISH, AS SCHEDULED.
- L. ALL INTERIOR FINISHES MUST BE INSTALLED BY A CERTIFIED INSTALLER/SUBCONTRACTOR PER MANUFACTURER'S INSTRUCTIONS. USE MANUFACTURER'S APPROVED ADHESIVES AND SEALERS.
- M. ALL FLOORING TRANSITIONS OCCUR UNDER THE CENTER OF THE DOOR UNLESS OTHERWISE NOTED.
- N. PROVIDE 7'-0" TALL 18 GA., TYPE 304 - SATIN FINISH, STAINLESS STEEL CORNER GUARDS AT ALL EXPOSED INTERIOR WALL CORNERS. CORNER GUARDS TO BE 1-1/2" WIDE AND SELF ADHERED.

### KEY NOTES: #

1. XXX

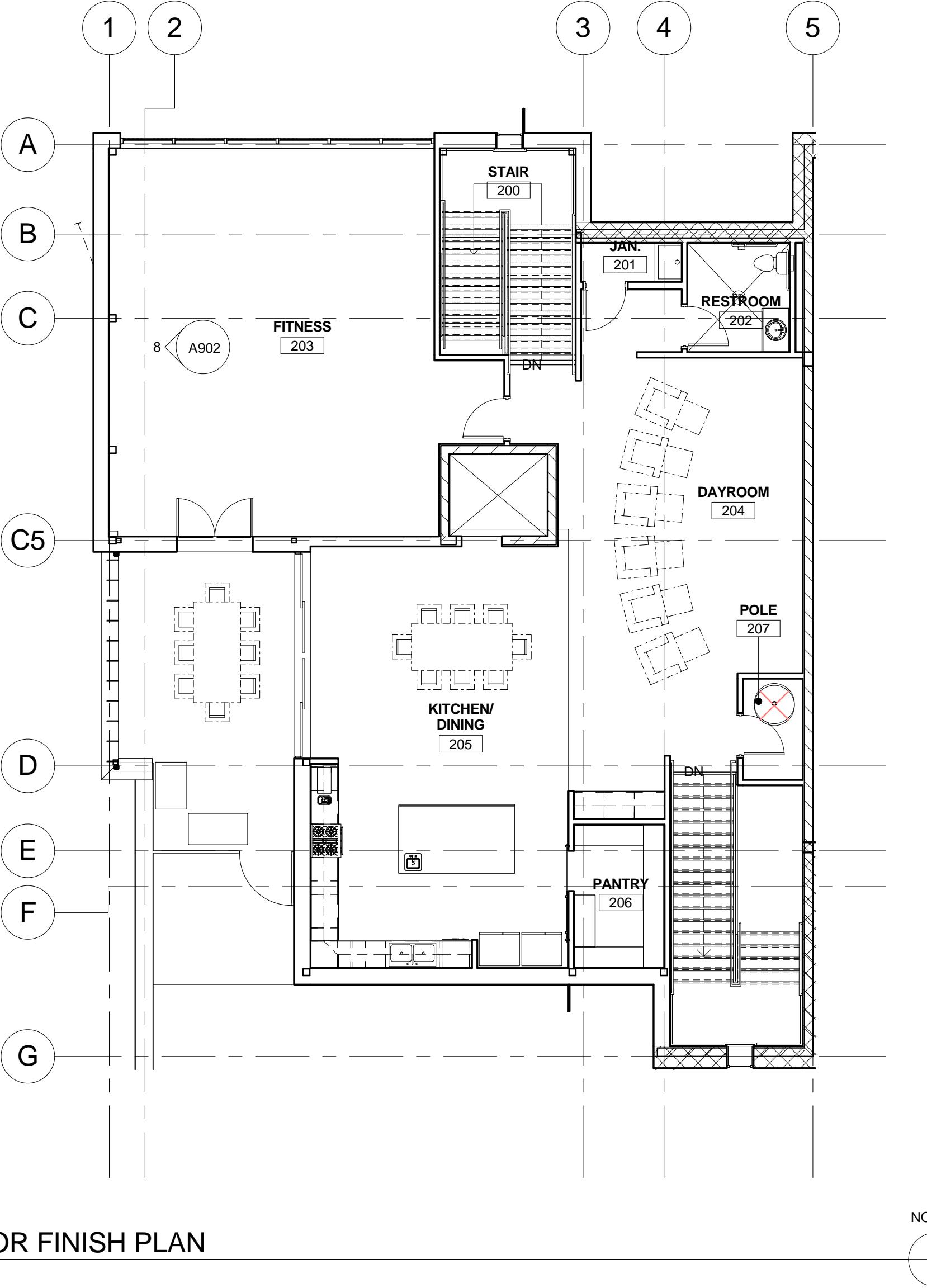


NOT FOR CONSTRUCTION  
CONSULTANT:  
PROJECT INFORMATION:

REVISIONS:  
MARK DATE DESCRIPTION

1ST FLOOR FINISH PLAN  
PLAN NUMBER: ID100

ROOM FINISH NOTES:  
1. BATHROOM BACKSPASH - TILE  
2. CAULKED CMU BASE AT EPOXY PAINT  
3. METAL GRATING  
4. KITCHEN BACKSPASH - SS  
SHEET NUMBER:  
01.29.16

| 5   | 4   | 3               | 2       | 1    |  |                         |          |                         |          |                            |       |          |        |  |  |  |       |     |      |  |  |       |  |  |  |         |  |       |        |      |                |             |          |        |          |        |          |        |           |     |       |         |     |      |      |      |      |      |      |      |   |           |     |     |         |     |      |                         |      |                         |      |       |      |      |           |     |          |         |     |      |      |      |      |      |      |      |   |           |     |         |        |     |      |      |      |      |      |      |      |   |           |     |         |         |     |      |      |      |      |      |      |      |   |           |     |                 |         |     |      |      |      |      |      |      |      |   |           |     |        |         |     |      |      |      |      |      |      |      |   |           |     |      |         |     |      |      |     |      |      |      |      |   |
|---|-----|-----------------|---------|------|--|-------------------------|----------|-------------------------|----------|----------------------------|-------|----------|--------|--|--|--|-------|-----|------|--|--|-------|--|--|--|---------|--|-------|--------|------|----------------|-------------|----------|--------|----------|--------|----------|--------|-----------|-----|-------|---------|-----|------|------|------|------|------|------|------|---|-----------|-----|-----|---------|-----|------|-------------------------|------|-------------------------|------|-------|------|------|-----------|-----|----------|---------|-----|------|------|------|------|------|------|------|---|-----------|-----|---------|--------|-----|------|------|------|------|------|------|------|---|-----------|-----|---------|---------|-----|------|------|------|------|------|------|------|---|-----------|-----|-----------------|---------|-----|------|------|------|------|------|------|------|---|-----------|-----|--------|---------|-----|------|------|------|------|------|------|------|---|-----------|-----|------|---------|-----|------|------|-----|------|------|------|------|---|
|  <p><b>2ND FLOOR FINISH PLAN</b><br/>1/8" = 1'-0"</p>   |     |                 |         |      |  |                         |          |                         |          |                            |       |          |        |  |  |  |       |     |      |  |  |       |  |  |  |         |  |       |        |      |                |             |          |        |          |        |          |        |           |     |       |         |     |      |      |      |      |      |      |      |   |           |     |     |         |     |      |                         |      |                         |      |       |      |      |           |     |          |         |     |      |      |      |      |      |      |      |   |           |     |         |        |     |      |      |      |      |      |      |      |   |           |     |         |         |     |      |      |      |      |      |      |      |   |           |     |                 |         |     |      |      |      |      |      |      |      |   |           |     |        |         |     |      |      |      |      |      |      |      |   |           |     |      |         |     |      |      |     |      |      |      |      |   |
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MOD #: FUTM-91BA &amp; FUTM-81BA (SUPPLY AT ALL WALL MOUNTED AREAS)</p> <p>SS-1 (SOLID SURFACE)<br/>MANUFACTURER: CAMBRIA<br/>COLOR: SNOWDON WHITE</p> <p>BS-1 (BACKSPLASH)<br/>MANUFACTURER: CROSSVILLE<br/>STYLE: EBB &amp; FLOW STICKS AND STONES - LINEAR MIXED MOSAICS<br/>COLOR: EF07 / 1MIXMOS<br/>GROUT: TEC, POWER GROUT, COLOR #994, DARK WALNUT.</p> <p>VEEN-1 (VENEER)<br/>MANUFACTURER: MARSHFIELD<br/>SPECIES: WALNUT<br/>VENeer CUT: PLAIN SLICED<br/>FINISH: CLEAR</p> <p>CONC-1<br/>POLISHED CONCRETE (LIGHT SAND &amp; PENETRATING SEALER)</p> <p>CONC-2<br/>SEALED CONCRETE</p> <p>CONC-3<br/>SMOOTH SLAB ON GRADE.</p> <p>PCONC-1<br/>POLISHED CONCRETE</p> <p>T-1 (TILE)<br/>MANUFACTURER: CROSSVILLE<br/>ITEM: MARBLE/MONOLITHIC PORCELAIN STONE<br/>COLOR NAME: AV233, CAMEL UPS<br/>SIZE: 6" X 16"<br/>INSTALLATION: BRICK PATTERN<br/>GROUT: 1/8" JOINT: TEC, POWER GROUT, COLOR # 915 LIGHT SMOKE</p> <p>T-2 (TILE)<br/>MANUFACTURER:<br/>COLOR NAME:<br/>SIZE:<br/>INSTALLATION:<br/>GROUT:</p> <p><b>NOTE:</b><br/>ALL FINISH MANUFACTURERS SPECIFIED ARE "BASIS OF DESIGN." 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|   |     |                 | FINISH  | BASE | NORTH MATERIAL   | EAST FINISH             | MATERIAL | FINISH                  | MATERIAL | FINISH                     |       | MATERIAL | FINISH |  |  |  |       |     |      |  |  |       |  |  |  |         |  |       |        |      |                |             |          |        |          |        |          |        |           |     |       |         |     |      |      |      |      |      |      |      |   |           |     |     |         |     |      |                         |      |                         |      |       |      |      |           |     |          |         |     |      |      |      |      |      |      |      |   |           |     |         |        |     |      |      |      |      |      |      |      |   |           |     |         |         |     |      |      |      |      |      |      |      |   |           |     |                 |         |     |      |      |      |      |      |      |      |   |           |     |        |         |     |      |      |      |      |      |      |      |   |           |     |      |         |     |      |      |     |      |      |      |      |   |
| 2ND FLOOR   | 200 | STAIR           | PCONC-1 | T-1  | GYPB   | PT-1                    | GYPB     | PT-1                    | GYPB     | PT-1                       | GYPB  | -        |        |  |  |  |       |     |      |  |  |       |  |  |  |         |  |       |        |      |                |             |          |        |          |        |          |        |           |     |       |         |     |      |      |      |      |      |      |      |   |           |     |     |         |     |      |                         |      |                         |      |       |      |      |           |     |          |         |     |      |      |      |      |      |      |      |   |           |     |         |        |     |      |      |      |      |      |      |      |   |           |     |         |         |     |      |      |      |      |      |      |      |   |           |     |                 |         |     |      |      |      |      |      |      |      |   |           |     |        |         |     |      |      |      |      |      |      |      |   |           |     |      |         |     |      |      |     |      |      |      |      |   |
| 2ND FLOOR   | 201 | JAN             | PCONC-1 | T-2  | GYPB   | T-2 @ 5'-0" EPOXY ABOVE | GYPB     | T-2 @ 5'-0" EPOXY ABOVE | GYPB     | EPOXY                      | GYPB  | PT-1     |        |  |  |  |       |     |      |  |  |       |  |  |  |         |  |       |        |      |                |             |          |        |          |        |          |        |           |     |       |         |     |      |      |      |      |      |      |      |   |           |     |     |         |     |      |                         |      |                         |      |       |      |      |           |     |          |         |     |      |      |      |      |      |      |      |   |           |     |         |        |     |      |      |      |      |      |      |      |   |           |     |         |         |     |      |      |      |      |      |      |      |   |           |     |                 |         |     |      |      |      |      |      |      |      |   |           |     |        |         |     |      |      |      |      |      |      |      |   |           |     |      |         |     |      |      |     |      |      |      |      |   |
| 2ND FLOOR   | 202 | RESTROOM        | PCONC-1 | T-1  | GYPB   | PT-1                    | GYPB     | PT-1                    | GYPB     | PT-1                       | GYPB  | 1        |        |  |  |  |       |     |      |  |  |       |  |  |  |         |  |       |        |      |                |             |          |        |          |        |          |        |           |     |       |         |     |      |      |      |      |      |      |      |   |           |     |     |         |     |      |                         |      |                         |      |       |      |      |           |     |          |         |     |      |      |      |      |      |      |      |   |           |     |         |        |     |      |      |      |      |      |      |      |   |           |     |         |         |     |      |      |      |      |      |      |      |   |           |     |                 |         |     |      |      |      |      |      |      |      |   |           |     |        |         |     |      |      |      |      |      |      |      |   |           |     |      |         |     |      |      |     |      |      |      |      |   |
| 2ND FLOOR   | 203 | FITNESS         | RUBBER  | T-1  | GYPB   | PT-1                    | GYPB     | PT-1                    | GYPB     | PT-1                       | GYPB  | -        |        |  |  |  |       |     |      |  |  |       |  |  |  |         |  |       |        |      |                |             |          |        |          |        |          |        |           |     |       |         |     |      |      |      |      |      |      |      |   |           |     |     |         |     |      |                         |      |                         |      |       |      |      |           |     |          |         |     |      |      |      |      |      |      |      |   |           |     |         |        |     |      |      |      |      |      |      |      |   |           |     |         |         |     |      |      |      |      |      |      |      |   |           |     |                 |         |     |      |      |      |      |      |      |      |   |           |     |        |         |     |      |      |      |      |      |      |      |   |           |     |      |         |     |      |      |     |      |      |      |      |   |
| 2ND FLOOR   | 204 | DAYROOM         | PCONC-1 | T-1  | GYPB   | PT-1                    | GYPB     | PT-1                    | GYPB     | PT-1                       | GYPB  | -        |        |  |  |  |       |     |      |  |  |       |  |  |  |         |  |       |        |      |                |             |          |        |          |        |          |        |           |     |       |         |     |      |      |      |      |      |      |      |   |           |     |     |         |     |      |                         |      |                         |      |       |      |      |           |     |          |         |     |      |      |      |      |      |      |      |   |           |     |         |        |     |      |      |      |      |      |      |      |   |           |     |         |         |     |      |      |      |      |      |      |      |   |           |     |                 |         |     |      |      |      |      |      |      |      |   |           |     |        |         |     |      |      |      |      |      |      |      |   |           |     |      |         |     |      |      |     |      |      |      |      |   |
| 2ND FLOOR   | 205 | KITCHEN/ DINING | PCONC-1 | T-1  | GYPB   | PT-1                    | GYPB     | PT-1                    | GYPB     | PT-1                       | GYPB  | 4        |        |  |  |  |       |     |      |  |  |       |  |  |  |         |  |       |        |      |                |             |          |        |          |        |          |        |           |     |       |         |     |      |      |      |      |      |      |      |   |           |     |     |         |     |      |                         |      |                         |      |       |      |      |           |     |          |         |     |      |      |      |      |      |      |      |   |           |     |         |        |     |      |      |      |      |      |      |      |   |           |     |         |         |     |      |      |      |      |      |      |      |   |           |     |                 |         |     |      |      |      |      |      |      |      |   |           |     |        |         |     |      |      |      |      |      |      |      |   |           |     |      |         |     |      |      |     |      |      |      |      |   |
| 2ND FLOOR   | 206 | PANTRY          | PCONC-1 | T-1  | GYPB   | PT-1                    | GYPB     | PT-1                    | GYPB     | PT-1                       | GYPB  | -        |        |  |  |  |       |     |      |  |  |       |  |  |  |         |  |       |        |      |                |             |          |        |          |        |          |        |           |     |       |         |     |      |      |      |      |      |      |      |   |           |     |     |         |     |      |                         |      |                         |      |       |      |      |           |     |          |         |     |      |      |      |      |      |      |      |   |           |     |         |        |     |      |      |      |      |      |      |      |   |           |     |         |         |     |      |      |      |      |      |      |      |   |           |     |                 |         |     |      |      |      |      |      |      |      |   |           |     |        |         |     |      |      |      |      |      |      |      |   |           |     |      |         |     |      |      |     |      |      |      |      |   |
| 2ND FLOOR   | 207 | POLE            | PCONC-1 | T-1  | GYPB   | PT-1                    | CMU      | PT-1                    | GYPB     | PT-1                       | GYPB  | -        |        |  |  |  |       |     |      |  |  |       |  |  |  |         |  |       |        |      |                |             |          |        |          |        |          |        |           |     |       |         |     |      |      |      |      |      |      |      |   |           |     |     |         |     |      |                         |      |                         |      |       |      |      |           |     |          |         |     |      |      |      |      |      |      |      |   |           |     |         |        |     |      |      |      |      |      |      |      |   |           |     |         |         |     |      |      |      |      |      |      |      |   |           |     |                 |         |     |      |      |      |      |      |      |      |   |           |     |        |         |     |      |      |      |      |      |      |      |   |           |     |      |         |     |      |      |     |      |      |      |      |   |
| <p style="text-align: center;">ROOM FINISH NOTES</p> <ol style="list-style-type: none"> <li>1. BATHROOM BACKSPLASH - TILE</li> <li>2. CALKED CMU BASE AT EPOXY PAINT</li> <li>3. METAL GRATING</li> <li>4. KITCHEN BACKSPLASH - SS</li> </ol>   |     |                 |         |      |  |                         |          |                         |          |                            |       |          |        |  |  |  |       |     |      |  |  |       |  |  |  |         |  |       |        |      |                |             |          |        |          |        |          |        |           |     |       |         |     |      |      |      |      |      |      |      |   |           |     |     |         |     |      |                         |      |                         |      |       |      |      |           |     |          |         |     |      |      |      |      |      |      |      |   |           |     |         |        |     |      |      |      |      |      |      |      |   |           |     |         |         |     |      |      |      |      |      |      |      |   |           |     |                 |         |     |      |      |      |      |      |      |      |   |           |     |        |         |     |      |      |      |      |      |      |      |   |           |     |      |         |     |      |      |     |      |      |      |      |   |
| KEY NOTES: #  |     |                 |         |      |  |                         |          |                         |          |                            |       |          |        |  |  |  |       |     |      |  |  |       |  |  |  |         |  |       |        |      |                |             |          |        |          |        |          |        |           |     |       |         |     |      |      |      |      |      |      |      |   |           |     |     |         |     |      |                         |      |                         |      |       |      |      |           |     |          |         |     |      |      |      |      |      |      |      |   |           |     |         |        |     |      |      |      |      |      |      |      |   |           |     |         |         |     |      |      |      |      |      |      |      |   |           |     |                 |         |     |      |      |      |      |      |      |      |   |           |     |        |         |     |      |      |      |      |      |      |      |   |           |     |      |         |     |      |      |     |      |      |      |      |   |
| 1. XXX  |     |                 |         |      |  |                         |          |                         |          |                            |       |          |        |  |  |  |       |     |      |  |  |       |  |  |  |         |  |       |        |      |                |             |          |        |          |        |          |        |           |     |       |         |     |      |      |      |      |      |      |      |   |           |     |     |         |     |      |                         |      |                         |      |       |      |      |           |     |          |         |     |      |      |      |      |      |      |      |   |           |     |         |        |     |      |      |      |      |      |      |      |   |           |     |         |         |     |      |      |      |      |      |      |      |   |           |     |                 |         |     |      |      |      |      |      |      |      |   |           |     |        |         |     |      |      |      |      |      |      |      |   |           |     |      |         |     |      |      |     |      |      |      |      |   |
| 2. 2ND FLOOR FINISH PLAN  |     |                 |         |      |  |                         |          |                         |          |                            |       |          |        |  |  |  |       |     |      |  |  |       |  |  |  |         |  |       |        |      |                |             |          |        |          |        |          |        |           |     |       |         |     |      |      |      |      |      |      |      |   |           |     |     |         |     |      |                         |      |                         |      |       |      |      |           |     |          |         |     |      |      |      |      |      |      |      |   |           |     |         |        |     |      |      |      |      |      |      |      |   |           |     |         |         |     |      |      |      |      |      |      |      |   |           |     |                 |         |     |      |      |      |      |      |      |      |   |           |     |        |         |     |      |      |      |      |      |      |      |   |           |     |      |         |     |      |      |     |      |      |      |      |   |
| 3. ID101  |     |                 |         |      |  |                         |          |                         |          |                            |       |          |        |  |  |  |       |     |      |  |  |       |  |  |  |         |  |       |        |      |                |             |          |        |          |        |          |        |           |     |       |         |     |      |      |      |      |      |      |      |   |           |     |     |         |     |      |                         |      |                         |      |       |      |      |           |     |          |         |     |      |      |      |      |      |      |      |   |           |     |         |        |     |      |      |      |      |      |      |      |   |           |     |         |         |     |      |      |      |      |      |      |      |   |           |     |                 |         |     |      |      |      |      |      |      |      |   |           |     |        |         |     |      |      |      |      |      |      |      |   |           |     |      |         |     |      |      |     |      |      |      |      |   |
| 4. 01.29.16   |     |                 |         |      |  |                         |          |                         |          |                            |       |          |        |  |  |  |       |     |      |  |  |       |  |  |  |         |  |       |        |      |                |             |          |        |          |        |          |        |           |     |       |         |     |      |      |      |      |      |      |      |   |           |     |     |         |     |      |                         |      |                         |      |       |      |      |           |     |          |         |     |      |      |      |      |      |      |      |   |           |     |         |        |     |      |      |      |      |      |      |      |   |           |     |         |         |     |      |      |      |      |      |      |      |   |           |     |                 |         |     |      |      |      |      |      |      |      |   |           |     |        |         |     |      |      |      |      |      |      |      |   |           |     |      |         |     |      |      |     |      |      |      |      |   |



**NOT FOR CONSTRUCTION**

CONSULTANT:



REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

PROJECT PHASE: **75% CD's**

|                   |                       |
|-------------------|-----------------------|
| PROJECT NUMBER    | 15-28                 |
| PROJECT MANAGER   | R. TeBeau             |
| PROJECT ARCHITECT | R. TeBeau             |
| DESIGN            | B. Harris / R. TeBeau |

DRAWN BY: Author

SHEET NAME:

**2ND FLOOR FINISH PLAN**

SHEET NUMBER:

**ID101**

01.29.16



**FOUNDATION**

1. GEOTECHNICAL INFORMATION AND FOUNDATION DESIGN IS BASED ON THE FOLLOWING GEOTECHNICAL REPORTS AND SUPPLEMENTS/ADDENDUMS. COPIES OF THE REPORTS AND SUPPLEMENTAL LETTERS SHALL BE AVAILABLE AT THE JOBSITE AT ALL TIMES.

| REPORT/ADDENDUM TITLE               | PREPARED BY | DATE    |
|-------------------------------------|-------------|---------|
| GEOTECHNICAL ENGINEERING EVALUATION | STRATA      | 7/27/15 |

## 2. SPREAD OR CONTINUOUS FOOTINGS:

| ANTICIPATED BEARING MATERIAL  | ALLOWABLE BEARING CAPACITY |
|---|----------------------------|
| PROOF-ROLLED SANDY SILT, CLAYEY SAND, OR GRANULAR SOIL IMPROVEMENTS AS PRESENTED IN GEOTEC REPORT | 2,000 PSF                  |

3. PROVIDE DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER AND/OR SEEPAGE AS NECESSARY.
4. EXCAVATION FOR FOOTINGS SHALL BE APPROVED BY THE INSPECTOR OR GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE AND REINFORCING.
5. DO NOT BACKFILL BEHIND FREE STANDING RETAINING WALLS UNTIL CONCRETE WALL HAS ATTAINED FULL DESIGN STRENGTH.
6. DO NOT BACKFILL BEHIND BASEMENT WALLS UNTIL THE SUPPORTING FLOOR SLAB HAS ATTAINED FULL DESIGN STRENGTH.
7. REMOVE ABANDONED FOOTINGS, UTILITIES, ETC. NEW FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR COMPAKTED BACKFILL.

**OPEN WEB STEEL JOISTS:**

1. DESIGN, DETAILING, FABRICATION, AND ERECTION OF OPEN-WEB STEEL JOISTS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. DESIGN SHALL COMPLY WITH THE CURRENT BUILDING CODE AND WITH LOADS SHOWN ON THE GENERAL NOTES AND ON SHEET S1.02 & S1.03.
2. SHOP DRAWINGS (STAMPED AND SIGNED BY A LICENSED STRUCTURAL OR CIVIL ENGINEER IN THE STATE OF IDAHO) AND CALCULATIONS FOR OPEN-WEB STEEL JOISTS SHALL BE SUBMITTED FOR APPROVAL TO THE ARCHITECT OR STRUCTURAL ENGINEER PRIOR TO FABRICATION.
3. NON-COMPOSITE LONGSPAN STEEL JOISTS, NOTED AS TYPE "LH", SHALL COMPLY WITH SJI-LHDUL-2010 STANDARD SPECIFICATION FOR LONGSPAN STEEL JOISTS, 2010. DO NOT CAMBER NON-COMPOSITE STEEL JOISTS.
4. MAXIMUM BEARING SEAT DEPTH FOR ALL OPEN WEB STEEL JOISTS IS 5".

**DESIGN INFORMATION:**

## 1. FLOOR LIVE LOADS:

|                           |                         |
|---------------------------|-------------------------|
| FITNESS ROOM              | 100 PSF (NOT REDUCIBLE) |
| KITCHEN AND DAY ROOM AREA | 50 PSF (REDUCIBLE)      |

## 2. ROOF LIVE LOADS:

|      |                    |
|------|--------------------|
| ROOF | 20 PSF (REDUCIBLE) |
|------|--------------------|

## 3. ROOF SNOW LOAD DATA:

|  |
|--|
| GROUND SNOW LOAD, $P_g = 20 \text{ PSF}$     |
| FLAT ROOF SNOW LOAD, $P_f = 14 \text{ PSF}$  |
| MINIMUM SNOW LOAD, $P_{g1} = 25 \text{ PSF}$ |
| SNOW LOAD EXPOSURE FACTOR, $C_e = 0.9$       |
| THERMAL FACTOR, $C_t = 1.0$                  |
| SNOW LOAD IMPORTANCE FACTOR, $I_s = 1.10$    |

## 4. WIND DESIGN DATA (2012 IBC SECTION 1603.1.4):

WIND LOADS ARE IN ACCORDANCE WITH SECTION 1609 OF THE CODE.

WIND SPEED,  $V_{ULT} = 120 \text{ MPH}$  (3-SECOND GUST)

EXPOSURE C

RISK CATEGORY IV

| COMPONENTS & CLADDING WIND PRESSURES (PSF) |                                  |     |     |
|--|----------------------------------|-----|-----|
| LOCATION                                   | COMPONENT TRIBUTARY AREA (SQ FT) |     |     |
|  | 10                               | 100 | 500 |
| ROOF                                       | ZONE 1                           |     |     |
|  | ZONE 2                           |     |     |
|  | ZONE 3                           |     |     |
| WALLS                                      | ZONE 4                           |     |     |
|  | ZONE 5                           |     |     |
| PARAPETS                                   | ZONE 4                           |     |     |
|  | ZONE 5                           |     |     |

## 5. EARTHQUAKE DESIGN DATA (2012 IBC SECTION 1603.1.5):

| SITE AND OCCUPANCY PARAMETERS           |                  |
|---|------------------|
| SEISMIC IMPORTANCE FACTOR               | $I = 1.5$        |
| RISK CATEGORY                           | IV               |
| MAPPED SPECTRAL RESPONSE ACCELERATIONS: | $S_{S1} = 0.304$ |
|   | $S_{D1} = 0.105$ |
| SITE CLASS                              | D                |
| SPECTRAL RESPONSE COEFFICIENTS:         | $S_{DS} = 0.316$ |
|   | $S_{DD} = 0.166$ |
| SEISMIC DESIGN CATEGORY                 | D                |

| BUILDING PARAMETERS                  |  |
|--------------------------------------|--|
| BASIC SEISMIC FORCE RESISTING SYSTEM | ORDINARY CONCENTRICALLY BRACE FRAME/SPECIAL REINFORCED MASONRY SHEARWALL |
| DESIGN BASE SHEAR                    |  |
| SEISMIC RESPONSE COEFFICIENTS        | $C_S = 0.15$   |
| RESPONSE MODIFICATION FACTOR         | $R = 3.25$   |
| SYSTEM OVERSTRENGTH FACTOR           | $\Omega_0 = 2.5$   |
| DEFLECTION AMPLIFICATION FACTOR      | $C_d = 3.25$   |
| ANALYSIS PROCEDURE USED              | EQUIVALENT LATERAL FORCE PROCEDURE (ASCE 7-10 SECTION 12.8)              |
| BASE ELEVATION                       |  |

**GENERAL**

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.

2. ALL DRAWINGS AND SPECIFICATIONS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION SO THAT CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.

3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRIORITY OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.

4. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES:

2012 INTERNATIONAL BUILDING CODE, PART 2, VOLUME 2 OF 2, AND LATEST REVISIONS REFERRED TO HERE AS "THE CODE", AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE CITY OF MERIDIAN DEPARTMENT OF BUILDING SERVICES, THE STATE OF IDAHO DIVISION OF BUILDING SAFETY, AND THOSE CODES & STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.

5. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:

A. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED

B. SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS UNLESS NOTED AND/OR DETAILED ON THE STRUCTURAL DRAWINGS

C. SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, PITS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGE IN LEVEL, CHAMfers, GROOVES, INSERTS, ETC

D. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS EXCEPT AS SHOWN

E. FLOOR AND ROOF FINISHES

F. MISCELLANEOUS DRAINAGE AND WATERPROOFING

G. ALL FIREPROOFING REQUIREMENTS INCLUDING FIREPROOFING OF STRUCTURAL STEEL

H. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS

6. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:

A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED.

B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.

C. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.

D. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS.

7. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT ETC. THE CONTRACTOR IS RESPONSIBLE FOR PROVISION OF TEMPORARY SHORING AND OTHER CONSTRUCTION AIDS, INCLUDING ALL ENGINEERING OF SUCH SYSTEMS, FOR TEMPORARY SUPPORT OF NEW AND/OR EXISTING STRUCTURAL ELEMENTS AS REQUIRED FOR ERECTION AND OTHER CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION (UNO). OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

8. THE CONTRACT STRUCTURAL DRAWINGS SHOW THE BUILDING IN ITS FINAL INTENDED POSITION. CONTRACTOR SHALL MAKE PROVISIONS IN THE CONSTRUCTION SEQUENCING OF THE BUILDING TO TAKE INTO ACCOUNTS SHRINKAGE, CREEP, SHORTENING, ETC.

9. FOR PIPES AND CONDUITS PENETRATING THROUGH OR EMBEDDED IN CONCRETE/CMU OR SLEEVED THROUGH CONCRETE/CMU, REFER TO THE CONCRETE/CMU GENERAL NOTES.

10. ASTM SPECIFICATIONS ON THE DRAWINGS SHALL BE THE VERSION REFERENCED IN CHAPTER 35 OF THE CODE OR AS REFERENCED IN THE APPLICABLE DESIGN STANDARD.

11. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS cesspools, cisterns, foundations, etc. IF ANY SUCH STRUCTURES ARE FOUND, THE STRUCTURAL ENGINEER AND GEOTECHNICAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY.

12. CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF OR FLOOR. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. THE CONTRACTOR TO DESIGN AND PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.

13. FOR PROJECTS REQUIRING SHORING FOR SOIL EXCAVATION:

a. THE CONTRACTOR SHALL VERIFY THE EXTENT AND LOCATIONS OF SITE UTILITIES PRIOR TO EXCAVATION OR SHORING. SINCE THE SURVEY WAS BASED PRIMARILY ON PUBLIC RECORDS, THERE MAY BE DISCREPANCIES BETWEEN THE LOCATION INDICATED ON THE SITE SURVEY AND ACTUAL VERIFIED LOCATIONS. IF THE ACTUAL FIELD VERIFIED LOCATION OF UTILITIES COULD RESULT IN A CONFLICT WITH THE SHORING, THE EOR FOR SHORING SHALL BE NOTIFIED IMMEDIATELY.

b. HEAVY EQUIPMENT, CRANES AND MATERIAL STOCKPILES SHALL NOT BE LOCATED ON OR ADJACENT TO SHORING UNLESS REVIEWED BY THE EOR FOR SHORING, AND APPROVED BY OSHPD.

c. CONTRACTOR SHALL COORDINATE SHORING WITH DRAWINGS OF RECORD TO INSURE PROVISIONS FOR POCKETS, BLOCKOUTS, OFFSETS, STEPPED FOOTINGS AND ANY OTHER ITEMS AFFECTED BY THE SHORING

d. STOCK PILING OR STORAGE OF MATERIAL ON OR NEAR SHORING BULKHEAD IS NOT PERMITTED.

14. WHERE NOT SHOWN ON THE DRAWINGS, CONTRACTOR TO PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED AND SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES. BRACED SHORING DESIGN EMPLOYING TIE-BACK ANCHORS, WHEN USED, SHALL BE SUBMITTED TO SEOR FOR REVIEW AND APPROVAL.

15. SLABS ON GRADE SHOWN ON THESE DRAWINGS ARE NOT DESIGNED AS STRUCTURAL DIAPHRAGMS.

16. EDGE OF SLAB DIMENSIONS TO BE COORDINATED AND VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO FABRICATION.

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PROJECT INFORMATION:  
CITY OF BOISE  
BOISE CITY OF TREES  
BOISE FIRE DEDICATION  
City of Boise Fire Station #8  
3575 W. Overland Rd. Boise, ID 83705

REVISIONS:  
MARK DATE DESCRIPTION  
PROJECT PHASE 75% CD  
PROJECT NUMBER 114747.2  
PROJECT MANAGER R. TeBeau  
PROJECT ARCHITECT R. TeBeau  
DESIGN B. Harris/R. TeBeau  
DRAWN BY Author  
SHEET NAME:

GERNAL STRUCTURAL NOTES  
D  
SHEET NUMBER:  
S001  
11.09.15

**MASONRY**

1. MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF "SPECIFICATION FOR MASONRY STRUCTURES" (ACI 530.1-11) PUBLISHED BY THE MASONRY SOCIETY, AMERICAN CONCRETE INSTITUTE, AND THE AMERICAN SOCIETY OF CIVIL ENGINEERS, AND WITH CHAPTER 21 OF THE CODE. CONCRETE BLOCKS SHALL BE HOLLOW LOAD-BEARING CONCRETE MASONRY UNITS CONFORMING TO ASTM C90, GRADE N. MEDIUM WEIGHT UNITS.

2. CONCRETE MASONRY UNITS SHALL MEET THE FOLLOWING REQUIREMENTS:

| WALL DESIGN STRENGTH | NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS |
|----------------------|---|
| f'm = 1,500 PSI      | 1,900 PSI MIN   |

- A  
3. TYPICAL PORTLAND CEMENT SHALL CONFORM TO ASTM C150. CEMENT SHALL BE AS SPECIFIED FOR CONCRETE.  
4. REINFORCING BARS - SEE NOTES UNDER "REINFORCING STEEL" FOR REQUIREMENTS.  
5. MORTAR SHALL CONFORM TO ASTM C270 AND SECTION 2103A.9 OF THE CODE AND HAVE THE FOLLOWING PROPERTIES AND STRENGTHS:

| WALL DESIGN STRENGTH | MORTAR TYPE | MORTAR 28 DAY COMPRESSIVE STRENGTH |
|----------------------|-------------|------------------------------------|
| f'm = 1,500 PSI      | S           | 1,800 PSI MIN                      |

SEE NOTES UNDER "TEST AND INSPECTION REQUIREMENTS" FOR TESTING REQUIREMENTS.

6. GROUT SHALL COMPLY WITH SECTION 2103.13 OF THE CODE AND ASTM C476. GROUT SHALL MEET THE FOLLOWING REQUIREMENTS:

| WALL DESIGN STRENGTH | COMPRESSIVE STRENGTH |
|----------------------|----------------------|
| f'm = 1,500 PSI      | 2,000 PSI MIN        |

SEE NOTES UNDER "TEST AND INSPECTION REQUIREMENTS" FOR TESTING REQUIREMENTS.

7. MORTAR AND GROUT COMPONENTS SHALL CONFORM WITH THE FOLLOWING:

|                 |   |
|-----------------|---|
| SAND            | ASTM C144   |
| LIME            | ASTM C207   |
| PORTLAND CEMENT | ASTM C150, TYPE I OR II, LOW ALKALI, < 6 MONTHS OLD |
| PEA GRAVEL      | ASTM C30  |

8. ADMIXTURES SHALL NOT BE USED IN GROUT EXCEPT BY SPECIFIC CONSENT OF SEOR. SEE NOTES UNDER "TEST AND INSPECTION REQUIREMENTS" FOR TESTING REQUIREMENTS.

9. PROVIDE A MINIMUM OF 1/2" CLEAR BETWEEN MAIN REINFORCING AND MASONRY UNITS.

10. DESIGN f'm = 1500 PSI FOR CMU CONSTRUCTION. TYPICAL PRISM TESTING SHALL BE PERFORMED AS PER THE REQUIREMENTS OF PROJECT SPECIFICATIONS AND THE CODE, SECTION 2105.2.2.2. SEE ALSO NOTES UNDER "TEST AND INSPECTION REQUIREMENTS" FOR REQUIREMENTS.

11. USE RUNNING BOND PATTERN UNO BY ARCHITECT. USE OPEN ENDED UNITS FOR STACKED BOND PATTERN.

12. USE OF HIGH-LIFT GROUT CONSTRUCTION IS SUBJECT TO APPROVAL BY SEOR. HIGH-LIFT GROUTING SHALL CONFORM TO SECTION 2104.5.1.2.1.2 OF THE CODE. CONTRACTOR SHALL SUBMIT A HIGH LIFT GROUTING PROCEDURE DEMONSTRATING CONFORMANCE TO THE ABOVE MENTIONED CODE SECTION FOR REVIEW BY SEOR.

13. PIPES EMBEDDED IN CMU:

- A. CMU: PIPES SHALL NOT BE EMBEDDED IN CMU EXCEPT WHERE SPECIFICALLY DETAILED. CONDUITS MAY BE EMBEDDED WHERE THE FOLLOWING IS TRUE:  
 a. CONDUITS ARE < 3/4" IN DIAMETER.  
 b. CONDUITS ARE NOT PLACED IN A CELL WITH REINFORCEMENT.  
 c. CONDUITS ARE A MINIMUM OF 24" FROM JAMB/END REINFORCEMENT.  
 d. CELLS WITH CONDUITS ARE SPACED 32" OC MIN.  
 e. (2) MAX PER UNREINFORCED CELL, 3 DIAMETERS (MIN) O.C.  
 f. CONDUITS ARE VERTICAL.

**STEEL DECK**

1. ROOF AND FLOOR DECK SHALL BE AS NOTED ON THE DRAWINGS.

2. DECK SHOP DRAWINGS, INCLUDING HEADED STUD LAYOUT, SHALL BE SUBMITTED TO THE SEOR FOR APPROVAL PRIOR TO FABRICATION.

3. DESIGN OF ALL STEEL DECK AND COMPOSITE SLABS ON STEEL DECK SHALL BE IN ACCORDANCE WITH SECTION 2210 OF THE CODE.

4. THE AMERICAN IRON AND STEEL INSTITUTE "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" SHALL GOVERN THE DESIGN OF ALL DECK UNITS. ALL STEEL DECK, CLOSURES AND FLASHINGS SHALL CONFORM TO ASTM A653 SS OR ASTM A1063 SS.

5. STEEL DECK MANUFACTURER SHALL BE VERO MANUFACTURING, INC. ALLOWABLE LOADS FOR DECK PRODUCTS ARE DETERMINED FROM THE VERO DECK CATALOG, IAPMO ES 0217. ALTERNATIVE EQUAL DECK PRODUCTS MAY BE CONSIDERED BUT ARE SUBJECT TO REVIEW AND APPROVAL BY SEOR.

6. UNITS SHALL BE CONTINUOUS OVER THREE OR MORE SPANS, EXCEPT WHERE THE FRAMING DOES NOT PERMIT. SHORING MAY BE REQUIRED AT NON-CONTINUOUS SPANS. DECK SHOP DRAWINGS SHALL INDICATE WHERE SHORING WILL BE REQUIRED. DECK SHALL BEAR 2" MINIMUM AT ALL SUPPORTS.

7. ALL WELDING OF STEEL DECK SHALL BE DONE BY CERTIFIED LIGHT GAGE WELDERS IN ACCORDANCE WITH "SPECIFICATIONS FOR WELDING SHEET STEEL IN STRUCTURES", AWS D1.3-08.

8. UNITS SHALL BE FASTENED TO THE STEEL SUPPORTS AT THE ENDS OF UNITS, AT INTERMEDIATE SUPPORTS AND TO STEEL SUPPORTS AT SIDE BOUNDARIES, WHERE NOT SPECIFICALLY NOTED IN DRAWINGS. FASTEN DECK USING 3/4" DIAMETER PUNCHED WELDS AT 1'-0" O.C. MAX. SHEAR STUDS WELDED THROUGH DECK MAY BE USED IN PLACE OF 3/4" DIAMETER PUNCHED WELDS.

9. FOR COMPOSITE SLABS CONSISTING OF CONCRETE FILL OVER STEEL DECK, THE SIDE LAPS OF ADJACENT UNITS SHALL BE FASTENED BETWEEN SUPPORTS BY BUTTON PUNCHING AT 36" O.C. MAX, OR PER SPACING INDICATED IN DECK SCHEDULE, WHICHEVER IS LESS. CONTRACTOR MAY DECREASE SPACING OF SIDE LAP ATTACHMENTS TO ACCOMMODATE CONSTRUCTION LOADING AS REQUIRED.

10. FOR BARE STEEL DECK, SIDE LAP CONNECTIONS FOR ADJACENT UNITS SHALL BE AS INDICATED IN DECK SCHEDULE, WHERE NOT SPECIFICALLY NOTED IN DRAWINGS. FASTEN BARE STEEL DECK USING TOP-SEAM WELDS AT 24" O.C. MAX.

11. PROVIDE FLASHING AND CLOSURE PLATES AT ENDS OF ALL UNITS, AROUND COLUMNS, AND AT ALL PERIMETER LOCATIONS REQUIRING CONCRETE.

12. ALL DECKS USED FOR COMPOSITE SLABS CONSISTING OF CONCRETE FILL OVER STEEL DECK SHALL HAVE VENT TABS FOR CONCRETE VENTILATION, UNO. ALL BARE STEEL DECKS SHALL BE A NON-VENTED TYPE, UNO.

13. ALL STEEL DECK SHALL BE GALVANIZED.

14. ALL SHORING OF STEEL DECK SHALL BE PER MANUFACTURER'S RECOMMENDATIONS, UNO.

**REINFORCING STEEL (CONT.)**

## 12. CONCRETE PROTECTION FOR REINFORCEMENT

THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT IN CAST-IN-PLACE CONCRETE (NON-PRESTRESSED):

| CONDITION OF CONCRETE   | BAR SIZE        | MINIMUM CLEAR COVER |
|---|-----------------|---------------------|
| CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH                        | ALL             | 3"                  |
| CONCRETE EXPOSED TO EARTH OR WEATHER  | #6 & LARGER     | 2"                  |
|   | #5 & SMALLER    | 1 1/2"              |
| SLABS, WALLS, & JOISTS NOT EXPOSED TO WEATHER OR IN CONTACT WITH SOIL         | #14 & LARGER    | 1 1/2"              |
|   | #11 AND SMALLER | 3/4"                |
| BEAMS & COLUMN TIES & STIRRUPS NOT EXPOSED TO WEATHER OR IN CONTACT WITH SOIL | ALL             | 1 1/2"              |

13. MECHANICAL BAR SPLICE CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ACI 318-11 SECTION 12.14.3. USE OF MECHANICAL CONNECTIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. SPLICES MUST BE TESTED AS INDICATED IN THE CONCRETE REINFORCEMENT SPECIFICATION.

**STRUCTURAL STEEL**

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED BY AN APPROVED AND LICENSED FABRICATOR IN ACCORDANCE WITH AISC 360-10 AND CHAPTER 22 OF THE CODE.

2. ALL STRUCTURAL STEEL SHALL CONFORM TO THE ASTM DESIGNATION AS INDICATED BELOW (UNO):

|   |                                 |
|---|---------------------------------|
| W SHAPES, WT SHAPES                                       | A992                            |
| ANGLES, CHANNELS  | A36                             |
| PLATES (AS NOTED ON DRAWINGS)                             | A36                             |
| SIMPLE SHEAR TAB CONNECTION PLATES (AS NOTED ON DRAWINGS) | A36                             |
| PIPE COLUMNS  | A53, GR B                       |
| HSS SECTIONS  | A500, GR B                      |
| HIGH STRENGTH BOLTS (AS NOTED ON DRAWINGS)                | A325/F1852, A490/F2280          |
| ANCHOR RODS (AS NOTED ON DRAWINGS)                        | F1554 GR36/55/105<br>A354 GR BD |
| COMMON/MACHINE BOLTS                                      | A307 GR A                       |

3. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STEEL FOR REVIEW AND APPROVAL BY THE AOR AND SEOR PRIOR TO FABRICATION.

4. BOLT HOLES USED IN STEEL SHALL BE 1/16" LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLT USED, EXCEPT AS NOTED.

5. ALL STRUCTURAL STEEL SURFACES THAT ARE ENCASED IN CONCRETE, MASONRY, SPRAY ON FIREPROOFING, OR ARE ENCASED BY BUILDING FINISH, SHALL BE LEFT UNPAINTED EXCEPT AS REQUIRED FOR DESIGNATION OF PROTECTED ZONES.

6. PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED TO REINFORCED CONCRETE/MASONRY USING POST-INSTALLED ANCHORS, CONTRACTOR SHALL LOCATE ALL REINFORCEMENT AND CONFIRM CONSTRUCTABILITY OF ANCHOR LOCATIONS. SHOULD CONFLICTS WITH REINFORCEMENT OCCUR, CONTRACTOR SHALL COORDINATE AND SUBMIT ALTERNATE ANCHOR LOCATIONS AND REVISED STEEL FABRICATIONS TO SEOR FOR REVIEW AND APPROVAL. DO NOT CUT OR DAMAGE EXISTING REINFORCEMENT.

7. ALL STRUCTURAL STEEL AND MISCELLANEOUS METAL EXPOSED TO THE WEATHER SHALL BE HOT DIP GALVANIZED AFTER FABRICATION, UNLESS CALLED OUT TO BE PAINTED ON THE CONSTRUCTION DOCUMENTS. PROTECT FIELD WELDS EXPOSED TO THE WEATHER VIA PRIME AND PAINT OR BRUSH / COLD GALVANIZING. REFER TO ARCH DRAWINGS FOR STEEL FINISH.

8. ALL WELDING IS TO BE DONE BY CERTIFIED WELDERS USING E70XX ELECTRODES (UNO). ALL WELDS SHALL BE IN CONFORMANCE WITH THE PROJECT SPECIFICATIONS AND THE CODE FOR WELDING IN BUILDING CONSTRUCTION AWS D1.1-10 OF THE AMERICAN WELDING SOCIETY. SEE SPECIAL INSPECTION SECTION FOR WELDING INSPECTION REQUIREMENTS. ALL WELDING FOR ELEMENTS OF THE LATERAL FORCE RESISTING SYSTEM SHALL BE PER AWS D1.8-09.

9. THE CONTRACTOR SHALL SUBMIT ALL WELDING PROCEDURE SPECIFICATIONS (WPS) FOR REVIEW BY SEOR. THE SUBMITTED WELDING PROCEDURES SHALL INCLUDE ONLY THOSE PROCEDURES RELEVANT TO THIS PROJECT. ALL WELDING PROCEDURES SPECIFIED INTENDED FOR USE AT DEMAND CRITICAL WELDS OF DESIGNATED LATERAL FORCE-RESISTING SYSTEMS SHALL BE IDENTIFIED ON THE WPS. ALL WELDED JOINTS SHALL BE PREQUALIFIED PER AWS OR BE QUALIFIED BY TEST PER AWS. A PROCEDURE QUALIFICATION RECORD (PQR) SHALL BE INCLUDED WITH THE WPS IF THE WELDING PROCEDURE OR JOINT IS QUALIFIED BY TESTING. THE ELECTRODE MANUFACTURER AND PRODUCT/TRADE NAME SHALL BE IDENTIFIED IN THE WPS IN ADDITION TO THE AWS ELECTRODE CLASSIFICATION NAME. A COPY OF THE ELECTRODE MANUFACTURER'S TECHNICAL DATA SHEETS WITH THE RECOMMENDED WELDING PARAMETERS SHALL BE SUBMITTED WITH THE WPS.

10. ALL WELDING OF DESIGNATED LATERAL FORCE RESISTING SYSTEM MEMBERS (INCLUDING DRAG AND CHORD BEAMS) IS TO BE PERFORMED AND INSPECTED IN ACCORDANCE WITH AISC 341-10 AND AWS D1.8-09, IN ADDITION TO ALL OTHER REQUIREMENTS NOTED IN THIS SECTION.

11. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM SIZE WELDS AS SPECIFIED IN AISC 360-10 SECTION J2.2b.

| CHARPY V NOTCH (CVN) REQUIREMENTS |                                 |                  |                         |
|-----------------------------------|---------------------------------|------------------|-------------------------|
| WELD TYPE                         | MINIMUM ABSORBED ENERGY (FT-LB) | TEMPERATURE (°F) | REFERENCE               |
| ALL WELDS                         | 20                              | 0°               | AWS 01.8-09 SECTION 6.3 |
| DEMAND CRITICAL WELDS             | 40                              | 70°              | AISC 341-10 SECTION 4b  |

13. 100 PERCENT ULTRASONIC TESTING IS REQUIRED FOR ALL COMPLETE JOINT PENETRATION GROOVE WELDS.

14. IF INTERMINGLING OF WELD FILLER MATERIAL IS REQUIRED AT SPECIFIC WELDED JOINTS, AND IF ONE OF THE FILLER METALS IS FC4W-S, SUBMIT A WELDING PROCEDURE SPECIFICATION (WPS) AND QUALIFY BY TESTING.

15. BACKUP BARS FOR STRUCTURAL MEMBERS NOT DESIGNATED AS PART OF THE SEISMIC LATERAL FORCE-RESISTING SYSTEM MAY REMAIN IN PLACE UNLESS NOTED IN DRAWINGS, OR WHEN ULTRASONIC TESTING INDICATES A POSSIBLE WELD DEFECT. IF DEFECTS ARE INDICATED BACKUP BARS ARE TO BE REMOVED AND THE ROOT INSPECTED. IF IMPERFECTIONS ARE FOUND, THEY ARE TO BE REMOVED AND REPAVED PER AWS STANDARDS.

16. DISCONTINUITIES IN WELDS CREATED BY ERRORS OR BY FABRICATION OR ERECTION OPERATIONS, SUCH AS TACK WELDS, ERECTION AIDS, AIR ARC GOUGING AND FLAME CUTTING SHALL BE REPAVED AS DETAILED BY THE SEOR.

**CONCRETE**

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19 OF THE CODE AND WITH THE PROVISIONS OF ACI 318-11.

2. CONCRETE MIXES SHALL BE DESIGNED BY A LICENSED CIVIL ENGINEER, VALIDATED BY AN APPROVED TESTING LABORATORY AND REVIEW BY SEOR. THE INTENDED USE AND/OR LOCATION(S) IN STRUCTURE OR SITE SHALL BE NOTED ON ALL MIX DESIGNS. THE COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE PROPORTIONED BASED ON CHAPTER 5 OF ACI 318-11. SCHEDULE OF STRUCTURAL CONCRETE STRENGTHS AND LOCATIONS (UNO):

| LOCATION IN STRUCTURE OR SITE | MINIMUM STRENGTH (PSI) | MAX DRY DENSITY (PCF) | SLUMP (IN±1) | MAX WATER/CEMENT R |
|-------------------------------|------------------------|-----------------------|--------------|--------------------|
|-------------------------------|------------------------|-----------------------|--------------|--------------------|

**SPECIAL INSPECTIONS**

| SPECIAL INSPECTION SCHEDULE 1,2,3<br>ESTABLISHED PER 2009 IBC SECTION 110 & CHAPTER 17   |                          |                        |   |
|--|--------------------------|------------------------|---|
| ITEM   | CONTINUOUS<br>INSPECTION | PERIODIC<br>INSPECTION | COMMENTS  |
| Soils  |                          |                        | Per IBC 1705.6  |
| Adequate materials to achieve design bearing capacity  |                          | X                      | By Geotechnical engineer  |
| Excavation extend to proper depth and material   |                          | X                      | By Geotechnical engineer  |
| Classification and Testing of Compacted Fill   |                          | X                      | By Geotechnical engineer  |
| Subgrade and site preparation prior to placement of fill   |                          | X                      | By Geotechnical engineer  |
| Use of proper materials, densities, and lift thicknesses during placement and compaction of fills.   | X                        |                        | By Geotechnical engineer  |
| Concrete   |                          |                        | Per IBC 1705.3  |
| Reinforcing placement  |                          | X                      |   |
| Reinforcing welding  | X                        |                        |   |
| Use of Approved Mix Design   |                          | X                      |   |
| Anchor bolts & inserts   |                          | X                      |   |
| Preparation of test specimens  | X                        |                        |   |
| Concrete placement   | X                        |                        |   |
| Adhesive anchor placement  | X                        |                        | Ref. note 5   |
| Mechanical anchor placement  | X                        |                        | Ref. note 5   |
| Embedded steel items   |                          | X                      |   |
| Curing   |                          | X                      |   |
| Slab on grade  |                          | X                      | Ref. note 13  |
| Structural steel   |                          |                        | Ref. note 4   |
| Material verification  |                          | X                      | Ref. note 6   |
| Fabrication & erection   |                          | X                      | Ref. note 7   |
| High strength bolting  | X                        | X                      | Ref. note 8   |
| Single pass fillet welds ≤5/16"  |                          | X                      | Ref. note 9   |
| All other fillet welds   | X                        |                        | Ref. note 9   |
| Partial/complete penetration weld  | X                        |                        | Ref. note 10  |
| Plug & slot welds  | X                        |                        | Ref. note 9   |
| Other welding  |                          |                        |   |
| Welding of anchors and studs   |                          | X                      |   |
| Welding-stairs/railing systems   |                          | X                      |   |
| Metal deck welding   |                          | X                      |   |
| Structural masonry   |                          |                        | Ref. note 11  |
| Verify compliance with the approved submittals   |                          | X                      | TMS 602/ACI 530.1/ASCE 6 Art. 1.5   |
| As masonry construction begins, verify that the following are in compliance:   |                          |                        |   |
| a. Proportions of site-prepared mortar   | X                        |                        | TMS 602/ACI 530.1/ASCE 6 Art. 2.1, 2.6A   |
| b. Construction of mortar joints   | X                        |                        | TMS 602/ACI 530.1/ASCE 6 Art. 3.3B  |
| c. Location of reinforcement and connectors  | X                        |                        | TMS 602/ACI 530.1/ASCE 6 Art. 3.4, 3.6A   |
| Prior to grouting, verify that the following are in compliance:  |                          |                        |   |
| a. Grout space   | X                        |                        | TMS 602/ACI 530.1/ASCE 6 Art. 3.2D, 3.2F  |
| b. Grade, type, and size of reinforcement and anchor bolts   | X                        |                        | TMS 602/ACI 530.1/ASCE 6 Art. 2.4, 3.4<br>TMS 402/ACI 530/ASCE 5 Sec. 1.16          |
| c. Placement of reinforcement and connectors   | X                        |                        | TMS 602/ACI 530.1/ASCE 6 Art. 3.2E, 3.4, 3.6A<br>TMS 402/ACI 530/ASCE 5 Sec. 1.16   |
| d. Proportions of site-prepared grout  | X                        |                        | TMS 602/ACI 530.1/ASCE 6 Art. 2.6B, 2.4G, 1.b                                       |
| e. Construction of mortar joints   | X                        |                        | TMS 602/ACI 530.1/ASCE 6 Art. 3.3B  |
| Verify during construction:  |                          |                        |   |
| a. Size and location of structural elements  | X                        |                        | TMS 602/ACI 530.1/ASCE 6 Art. 3.3F  |
| b. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction | X                        |                        | TMS 402/ACI 530/ASCE 5 Sec. 1.16.4.3, 1.17.1  |
| c. Welding of reinforcement  | X                        |                        | TMS 402/ACI 530/ASCE 5 Sec. 2.1.7.7.2, 3.3.3.4<br>(c), 8.3.3.4 (b)                  |
| d. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F) | X                        |                        | TMS 602/ACI 530.1/ASCE 6 Art. 1.8C, 1.8D  |
| Observe preparation of grout specimens, mortar specimens, and/or prisms  | X                        |                        | TMS 602/ACI 530.1/ASCE 6 Art. 1.4B.2.a.3,<br>1.4B.2.b.3, 1.4B.2.c.3, 1.4B.3, 1.4B.4 |
| Non-Load Bearing Cold Formed Steel   |                          |                        |   |
| Exterior wall framing  | X                        |                        | Ref. note 12  |
| Welding  | X                        |                        | Ref. note 9   |

**INSPECTION SCHEDULE NOTES**

- THE ITEMS CHECKED WITH AN "X" SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO PROJECT SPECIFICATIONS, THE STRUCTURAL NOTES AND THE NOTES BELOW. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ARCHITECT, ENGINEER, CONTRACTOR AND BUILDING OFFICIAL. ANY MATERIALS WHICH FAIL TO MEET THE PROJECT SPECIFICATIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS. INSPECTION AND TESTING REQUIREMENTS FOR SYSTEMS DESIGNED BY OTHERS SHALL BE DEFINED BY THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR THEIR DESIGN, EXCEPT THAT THE INSPECTION REQUIREMENTS SHALL NOT BE LESS THAN SPECIFIED IN THIS SCHEDULE.
- SPECIAL INSPECTION IS NOT REQUIRED FOR WORK PERFORMED BY AN APPROVED FABRICATOR PER IBC SECTION 1704.2.5.2.
- CONTINUOUS SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON THE SITE AT ALL TIMES OBSERVING THE WORK REQUIRING SPECIAL INSPECTION (IBC 1702). PERIODIC SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON SITE AT TIME INTERVALS NECESSARY TO CONFIRM THAT ALL WORK REQUIRING SPECIAL INSPECTION IS IN COMPLIANCE.
- SPECIAL INSPECTION FOR STRUCTURAL STEEL SHALL BE PER IBC 1705.2.1 AND AISC 360-10 CHAPTER N UNLESS NOTED OTHERWISE.
- INSPECTION OF POST-INSTALLED ANCHORS SHALL CONFORM TO THE REQUIREMENTS OF THE APPLICABLE ICC-ES REPORT.
- STRUCTURAL STEEL IDENTIFICATION MARKINGS SHALL CONFORM TO AISC 360, STEEL DECK IDENTIFICATION MARKINGS SHALL CONFORM TO AISC STANDARDS SPECIFIED AND THE MANUFACTURER'S CERTIFIED TEST REPORTS SHALL BE REVIEWED. WELD FILLER MATERIALS SHALL HAVE IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION AND THE MANUFACTURER'S CERTIFICATE OF COMPLIANCE IS REQUIRED.
- INSPECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH IBC SECTION 1705.2. THE STEEL FRAME SHALL BE INSPECTED FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS INCLUDING BRACING, STIFFENING, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.
- INSPECTION OF BOLT INSTALLATION FOR PRETENSIONING IS PERMITTED TO BE PERFORMED ON A PERIODIC BASIS WHEN USING THE TURN-OFF-NUT METHOD WITH MATCHMARKING TECHNIQUES, THE DIRECT TENSION INDICATOR METHOD, OR THE ALTERNATE DESIGN FASTENER (TWIST-OFF BOLT) METHOD. JOINTS DESIGNATED AS SNUG TIGHT NEED ONLY PERIODIC INSPECTION. JOINTS DESIGNATED AS SLIP-CRITICAL SHALL HAVE CONTINUOUS INSPECTION OF THE BOLTING AND FAYING SURFACE.
- ALL WELDS SHALL BE VISUALLY INSPECTED.
- ALL COMPLETE PENETRATION WELDS SHALL BE TESTED ULTRASONICALLY OR BY USING ANOTHER APPROVED METHOD.
- SPECIAL INSPECTION FOR REINFORCED MASONRY SHALL BE PER THE LEVEL B SPECIAL INSPECTION REQUIREMENTS IN SECTION 1.19 OF TMS 402-11/ACI 530-11/ASCE 5-11.
- SPECIAL INSPECTION IS REQUIRED FOR ALL COLD-FORMED STEEL FRAMING THAT EITHER SUPPORTS VENEER WEIGHING MORE THAN 5 PSF, OR THAT EXTENDS MORE THAN 30 FEET ABOVE GRADE. INSPECTION SHALL VERIFY THE FASTENING OF THE SYSTEM.
- PERFORM THE FOLLOWING INSPECTIONS ON THE SLABS-ON-GRADE:
  - PERFORM MICROWAVE TEST (ASHTO T-318, WATER CONTENT OF FRESHLY MIXED CONCRETE USING MICROWAVE OVEN) ON SITE TO VERIFY WATER/CEMENT RATIO OF FIRST LOAD OF CONCRETE, FOR EACH CONCRETE PLACEMENT. ADDITIONAL TESTS TO BE PERFORMED EVERY 25 CUBIC YARDS.
  - MOISTURE CONTENT TESTING (PER ASTM D2974) TO BE PERFORMED ON GRANULAR MATERIAL OVERLYING VAPOR RETARDER (TWO MINIMUM). TEST SHALL BE PERFORMED WITHIN 24 HOURS PRIOR TO CONCRETE PLACEMENT.
  - PERFORM AIR, SLUMP, AND TEMPERATURE TESTS OF FRESH CONCRETE;
  - VERIFICATION OF PLACEMENT OF VAPOR RETARDER AND TRIMABLE, COMPACTABLE GRANULAR COARSE; VAPOR RETARDER INSTALLATION MUST BE PERFORMED IN ACCORDANCE WITH INDUSTRY STANDARDS;
  - REVIEW BATCH TICKETS TO DETERMINE AMOUNT OF WATER IN EACH LOAD OF CONCRETE;
  - VERIFY TYPE AND QUANTITY OF PLASTICIZER;

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PROJECT INFORMATION:

**City of Boise Fire Station #8**

3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

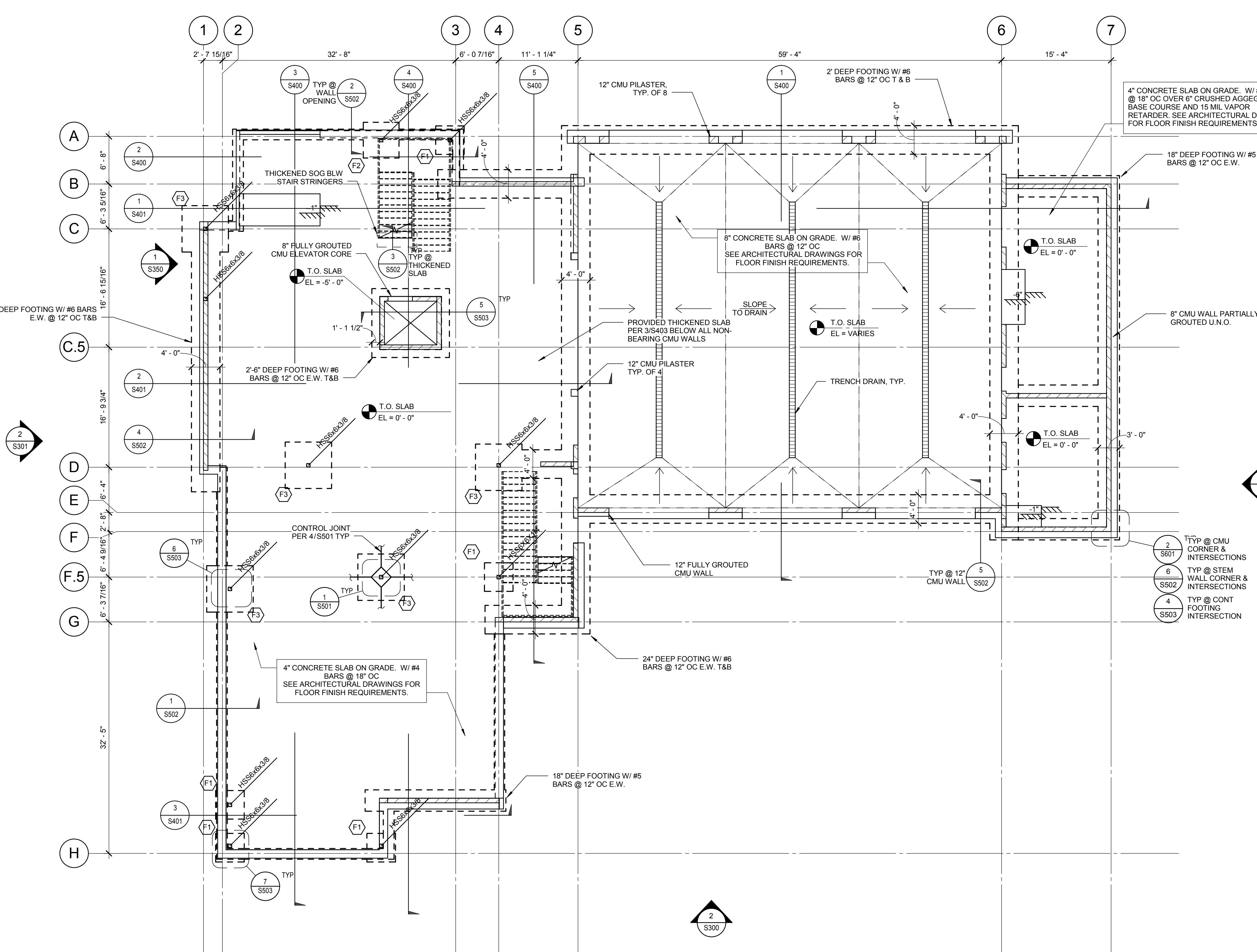
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|                   |                     |
|-------------------|---------------------|
| PROJECT PHASE     | 75% CD              |
| PROJECT NUMBER    | 114747.2            |
| PROJECT MANAGER   | R. TeBeau           |
| PROJECT ARCHITECT | R. TeBeau           |
| DESIGN            | B. Harris/R. TeBeau |
| DRAWN BY          | NLP                 |

SHEET NAME:

|               |
|---------------|
| SHEET NUMBER: |
| SHEET NUMBER: |

**S003**



**1 FOUNDATION PLAN**

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

**FOUNDATION NOTES:**

1. SEE ARCH FOR GRID DIMENSIONS & HORIZONTAL CONTROL.
2. SEE SHEET S001 AND S002 FOR GENERAL NOTES.
3. SEE S401 SERIES SHEETS FOR TYPICAL CONCRETE DETAILS.
4. T.O.F. EL=X'-XX" INDICATES TOP OF FOOTINGS ELEVATION. FOOTINGS SHALL BE 1"-0" BELOW TOP OF CONCRETE SLAB ELEVATION U.N.O.
5. F# INDICATES FOOTING TYPE PER DETAIL 1/S501.
6. EL=X'-XX" INDICATES TOP OF STRUCTURAL CONCRETE ELEVATION.
7. XX" INDICATES STEP IN SLAB, SEE 3/S503.
8. XX" INDICATES NEW CMU BEARING WALL PER 1B/S601.
9. SEE M.E.P. DRAWINGS FOR LOCATION OF TRENCHES, FLOOR SINKS, AND UNDERGROUND UTILITIES.
10. GEOTECHNICAL ENGINEER SHALL OBSERVE THE FOUNDATION EXCAVATIONS PRIOR TO THE PLACEMENT OF REINFORCING STEEL.
11. SEE M.E.P. DRAWINGS FOR LOCATION OF TRENCHES, FLOOR SINKS, AND UNDERGROUND UTILITIES.
12. 00 INDICATES STEPPED FOOTING, SEE 2/S503.
13. COORDINATE WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ALL UNDER-SLAB UTILITY LOCATIONS. WHERE UTILITES CROSS FOUNDATIONS SEE 8/S501.
14. CONTRACTOR TO VERIFY THAT BOTTOM OF NEW FOOTINGS ALIGN WITH OR IS ABOVE THE BOTTOM OF ALL ADJACENT FOOTINGS.
15. WHERE OPENINGS ARE REQUIRED IN SLAB-ON-GRADE SEE 7/S501.
16. FOR TYPICAL SLAB-ON-GRADE CONTROL JOINT AND COLUMN ISOLATION JOISTS SEE 4/S501 AND 3/S501.
17. FOR COLUMN BASE PLATE INFO SEE 2/S701.
18. FOR TYPICAL VAPOR BARRIER & BASE PREPARATION AT SLAB-ON-GRADE SEE 1/S503.
19. SEE FOUNDATION SECTION OF GENERAL NOTES FOR SUBGRADE PREPARATION BELOW SLAB-ON-GRADE AND FOUNDATIONS.

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PROJECT PHASE 75% CD

PROJECT NUMBER 114747.2

PROJECT MANAGER R. TeBeau

PROJECT ARCHITECT R. TeBeau

DESIGN B. Harris/R. TeBeau

DRAWN BY Author

SHEET NAME:

**FOUNDATION PLAN**

SHEET NUMBER:

**S201**

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|------|------|-------------|
|      |      |             |

PROJECT PHASE: 75% CD

|                   |                     |
|-------------------|---------------------|
| PROJECT PHASE     | 75% CD              |
| PROJECT NUMBER    | 114747.2            |
| PROJECT MANAGER   | R. TeBeau           |
| PROJECT ARCHITECT | R. TeBeau           |
| DESIGN            | B. Harris/R. TeBeau |
| DRAWN BY          | NLP                 |

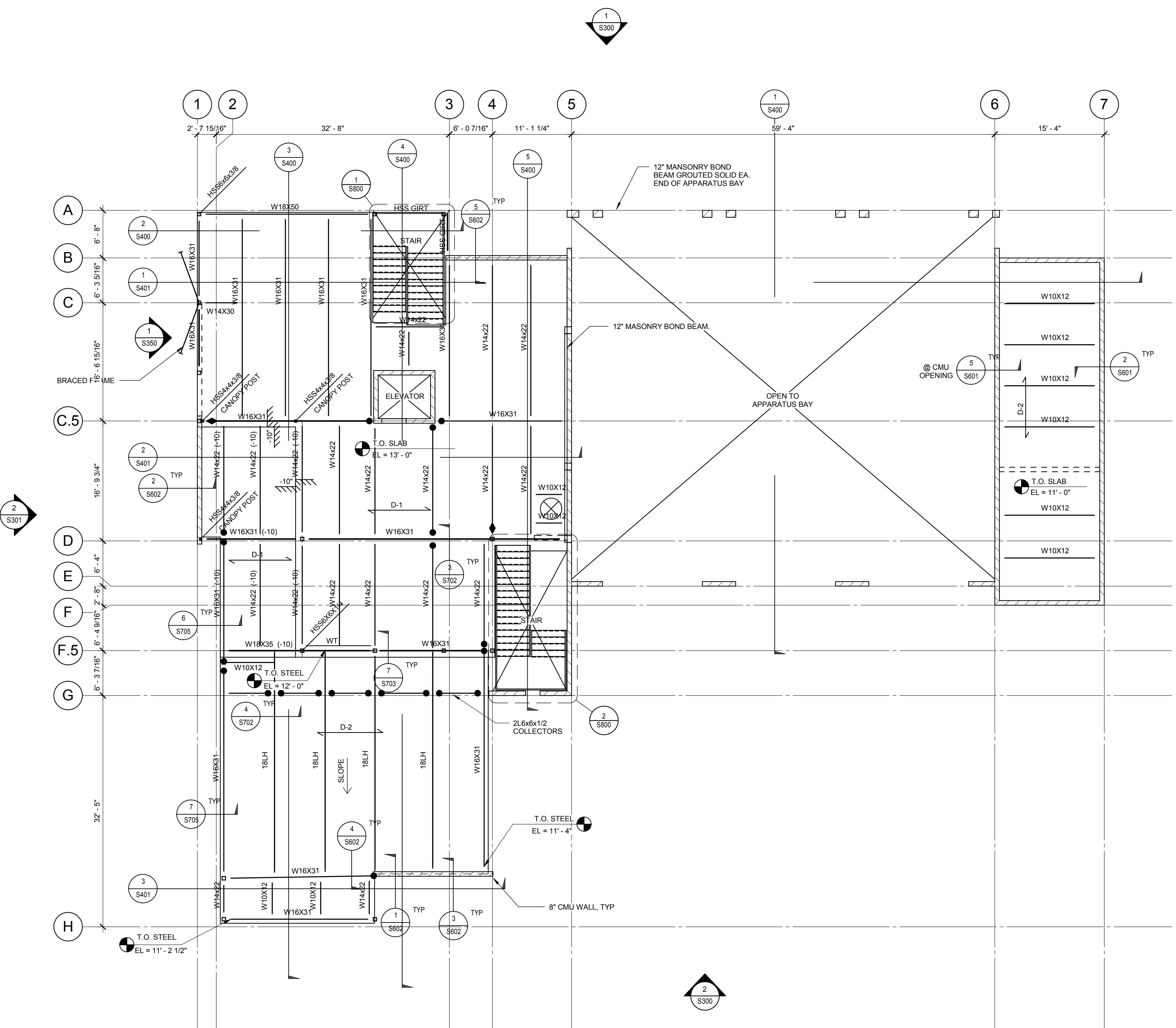
SHEET NAME:

## LEVEL 2 FRAMING PLAN

SHEET NUMBER:

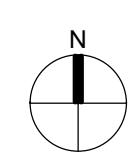
S202

11.09.15



## LEVEL 2 FRAMING PLAN

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



## TYPICAL STEEL FRAMING NOTES:

1. SEE ARCH SHEETS FOR GRID DIMENSIONS & HORIZONTAL CONTROL.
2. SEE S000 SHEET SERIES FOR GENERAL NOTES.  
SEE S501 SHEET SERIES FOR TYPICAL CMU DETAILS.  
SEE S601 SHEET SERIES FOR TYPICAL STEEL DETAILS.
3. ALL BEAMS SHALL BE EQUALLY SPACED BETWEEN COLUMNS UNLESS NOTED OTHERWISE.
4. BEAMS AROUND OPENING ARE 1'-0" FROM EDGE OF OPENING, UNO. BEAMS AT EDGE OF SLAB ARE LOCATED AT 1'-0" FROM EDGE OF SLAB UNO.
5. T.O. SLAB EL = <X-X> INDICATES TOP OF SLAB OR DECK ELEVATION
6. (-/+X') INDICATES TOP OF STEEL BEAM RELATIVE THE REFERENCED T.O. STEEL ELEVATION.
7. INDICATES FLOOR ELEVATION CHANGE.
8. D-1 INDICATES DECK TYPE, SEE DETAIL 1/S705.
9. [XX] INDICATES NUMBER OF REQUIRED HEADED STUDS PER 5/S704.
10. <X-Y> INDICATES UPWARD BEAM CAMBER AT MIDSPAN.
11. ● INDICATES DRAG CONNECTION SEE SCHEDULE ON DETAIL 1/S702. FOR OWSJ SEE 5/S703.
12. ◆ INDICATES FULL HEIGHT STIFFENER PER DETAIL B ON 1/S701.
13. ▶ INDICATES MOMENT CONNECTION SEE DETAILS 2/S702.
14. ←→ INDICATES BEAM LATERAL BRACE PER DETAIL 1/S704.
15. LFRS INDICATES LATERAL FORCE RESISTING SYSTEM MEMBERS.
16. FOR TYPICAL REINFORCING AT STRUCTURAL CMU WALLS SEE 1/S601.
17. ##LH INDICATES OPEN WEB STEEL JOIST BY CONTRACTOR. SEE GENERAL NOTES FOR LOAD CRITERIA AND DESIGN REQUIREMENTS.

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|-------------------|---------------------|
| PROJECT PHASE     | 75% CD              |
| PROJECT NUMBER    | 114747.2            |
| PROJECT MANAGER   | R. TeBeau           |
| PROJECT ARCHITECT | R. TeBeau           |
| DESIGN            | B. Harris/R. TeBeau |
| DRAWN BY          | NLP                 |

SHEET NAME:

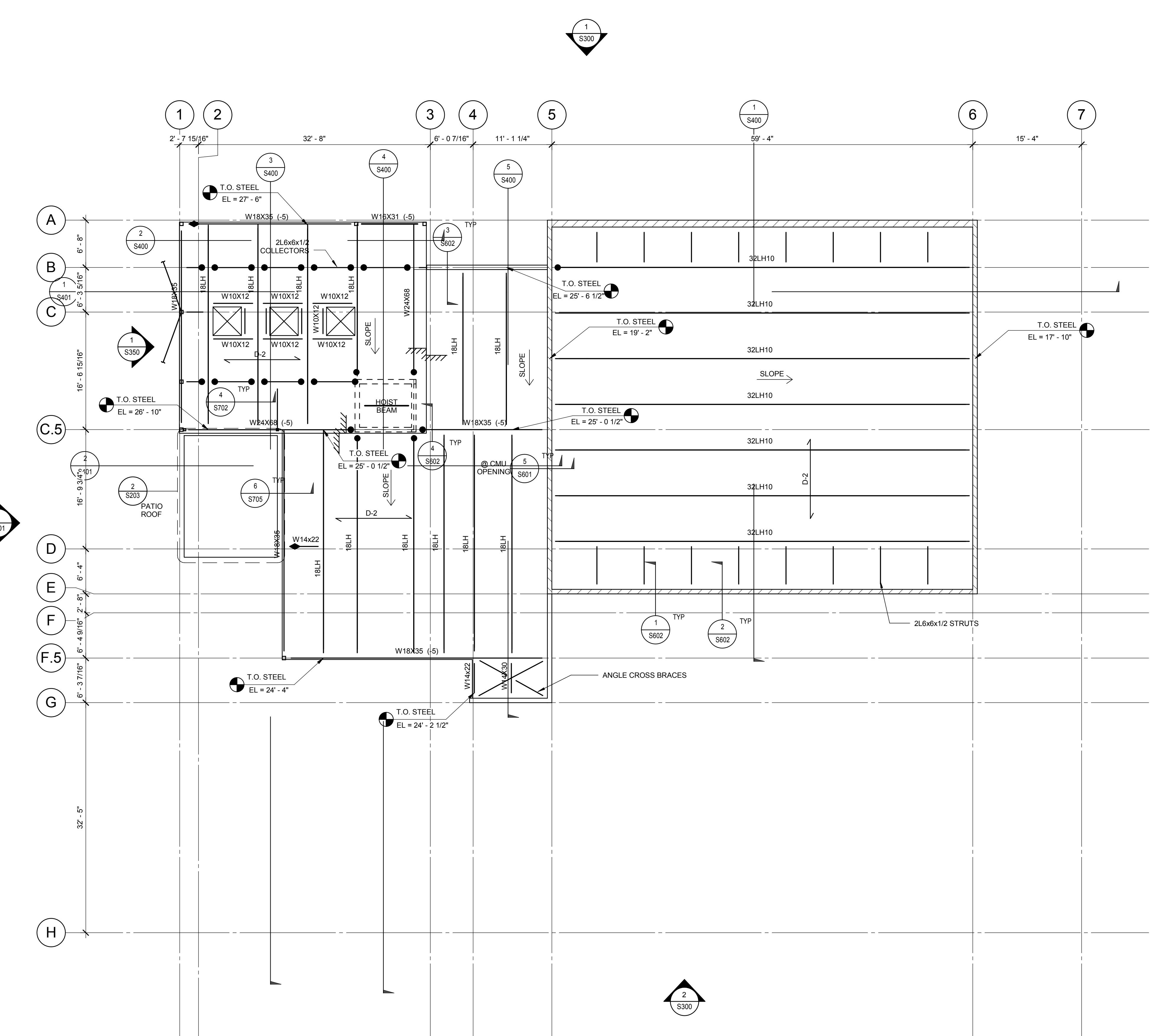
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| SHEET NUMBER: |      |
|               | S203 |

11.09.15

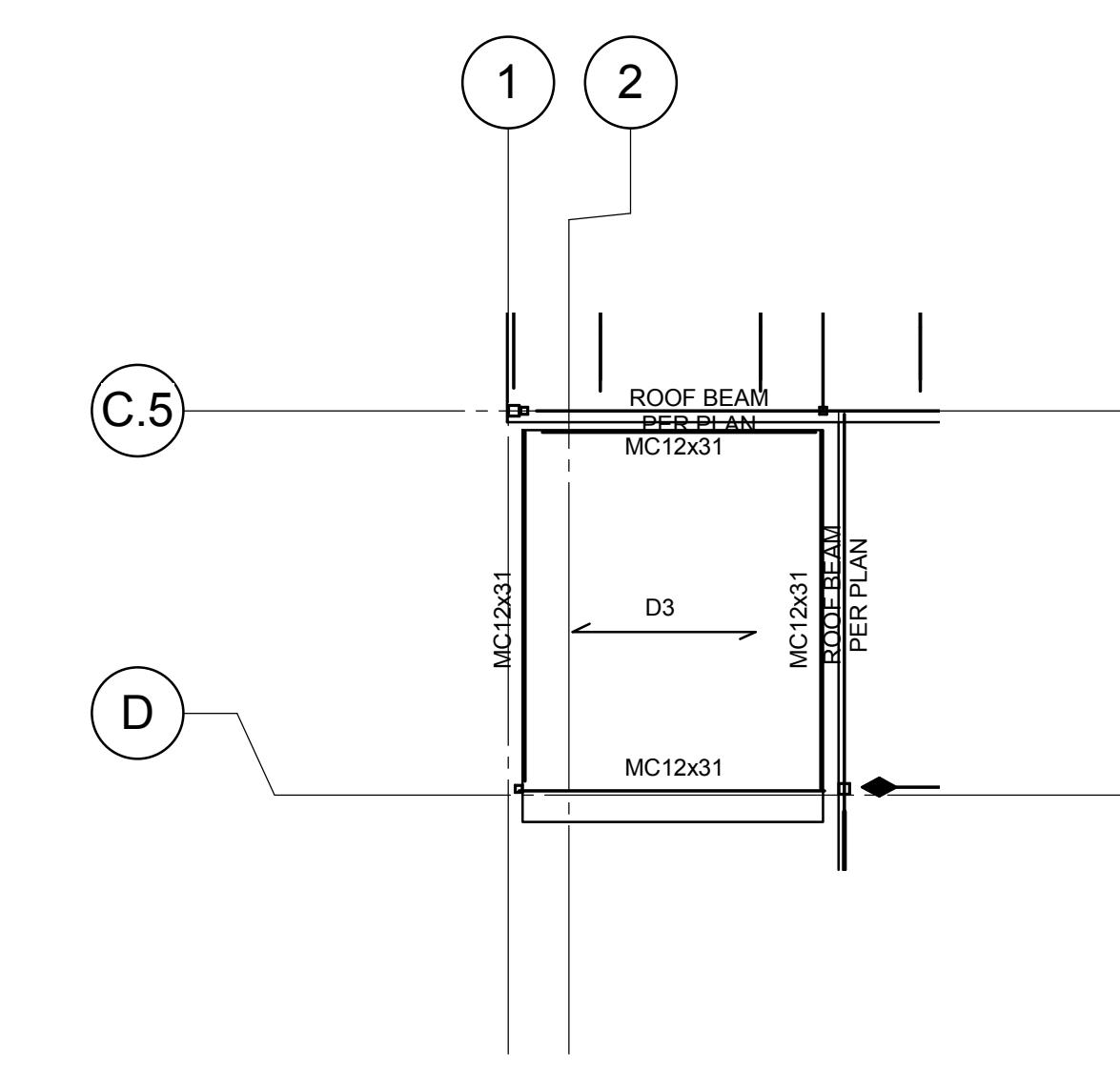
**TYPICAL STEEL FRAMING NOTES:**

1. SEE ARCH SHEETS FOR GRID DIMENSIONS & HORIZONTAL CONTROL.
2. SEE S000 SHEET SERIES FOR GENERAL NOTES.
3. SEE S601 SHEET SERIES FOR TYPICAL CMU DETAILS.
4. SEE S601 SHEET SERIES FOR TYPICAL STEEL DETAILS.
5. ALL BEAMS SHALL BE EQUALLY SPACED BETWEEN COLUMNS UNLESS NOTED OTHERWISE.
6. BEAMS AROUND OPENING ARE 1'-0" FROM EDGE OF OPENING, UNO.
7. BEAMS AT EDGE OF SLAB ARE LOCATED AT 1'-0" FROM EDGE OF SLAB UNO.
8. T.O.SLAB EL = X-X' INDICATES TOP OF SLAB OR DECK ELEVATION
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10. INDICATES FLOOR ELEVATION CHANGE.
11. INDICATES DECK TYPE. SEE DETAIL 1/S705.
12. INDICATES NUMBER OF REQUIRED HEADED STUDS PER 5/S704.
13. INDICATES UPWARD BEAM CAMBER AT MIDSPAN.
14. INDICATES DRAG CONNECTION SEE SCHEDULE ON DETAIL 1/S702. FOR OWSJ SEE 5/S703.
15. INDICATES FULL HEIGHT STIFFENER PER DETAIL B ON 1/S701.
16. INDICATES MOMENT CONNECTION SEE DETAILS 2/S702.
17. INDICATES BEAM LATERAL BRACE PER DETAIL 1/S704.
18. LFRS INDICATES LATERAL FORCE RESISTING SYSTEM MEMBERS.
19. FOR TYPICAL REINFORCING AT STRUCTURAL CMU WALLS SEE 1/S601.
20. #LH INDICATES OPEN WEB STEEL JOIST BY CONTRACTOR. SEE GENERAL NOTES FOR LOAD CRITERIA AND DESIGN REQUIREMENTS.

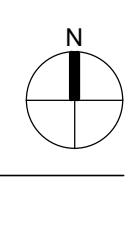
S203



**1 ROOF FRAMING PLAN**  
SCALE: 1/8" = 1'-0"



**2 PATIO ROOF FRAMING**  
SCALE: 1/8" = 1'-0"



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PROJECT PHASE **75% CD**

|                   |                     |
|-------------------|---------------------|
| PROJECT PHASE     | <b>75% CD</b>       |
| PROJECT NUMBER    | 114747.2            |
| PROJECT MANAGER   | R. TeBeau           |
| PROJECT ARCHITECT | R. TeBeau           |
| DESIGN            | B. Harris/R. TeBeau |
| DRAWN BY          | Author              |

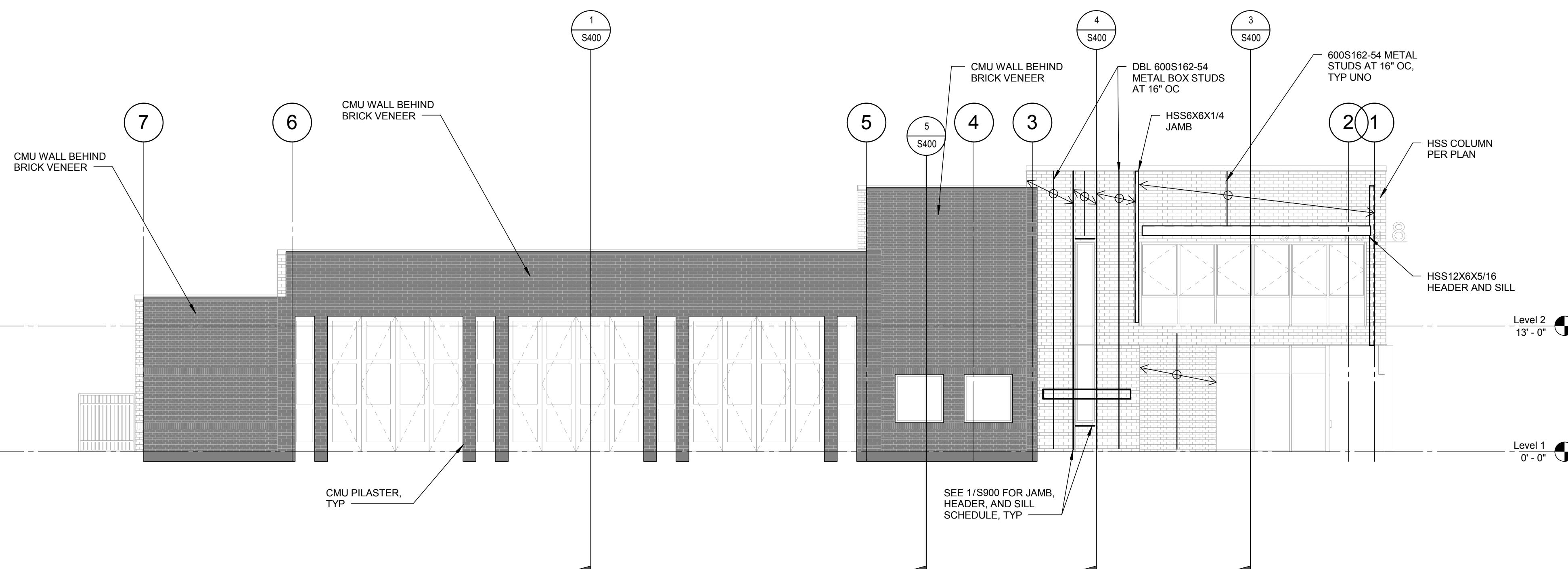
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**EXTERIOR ELEVATIONS**

SHEET NUMBER:

**S300**

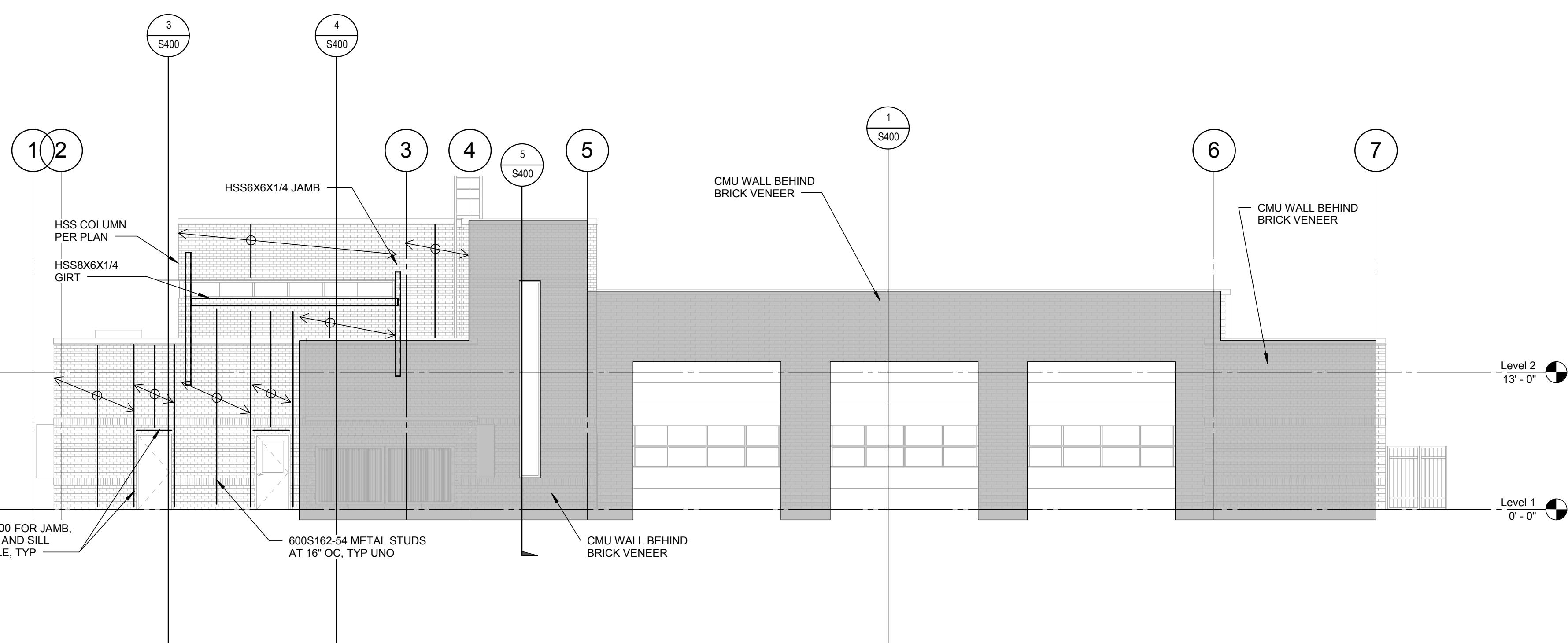
A



**1 NORTH ELEVATION**

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

B



**2 SOUTH ELEVATION**

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

C

D

3

2

1

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PROJECT PHASE **75% CD**

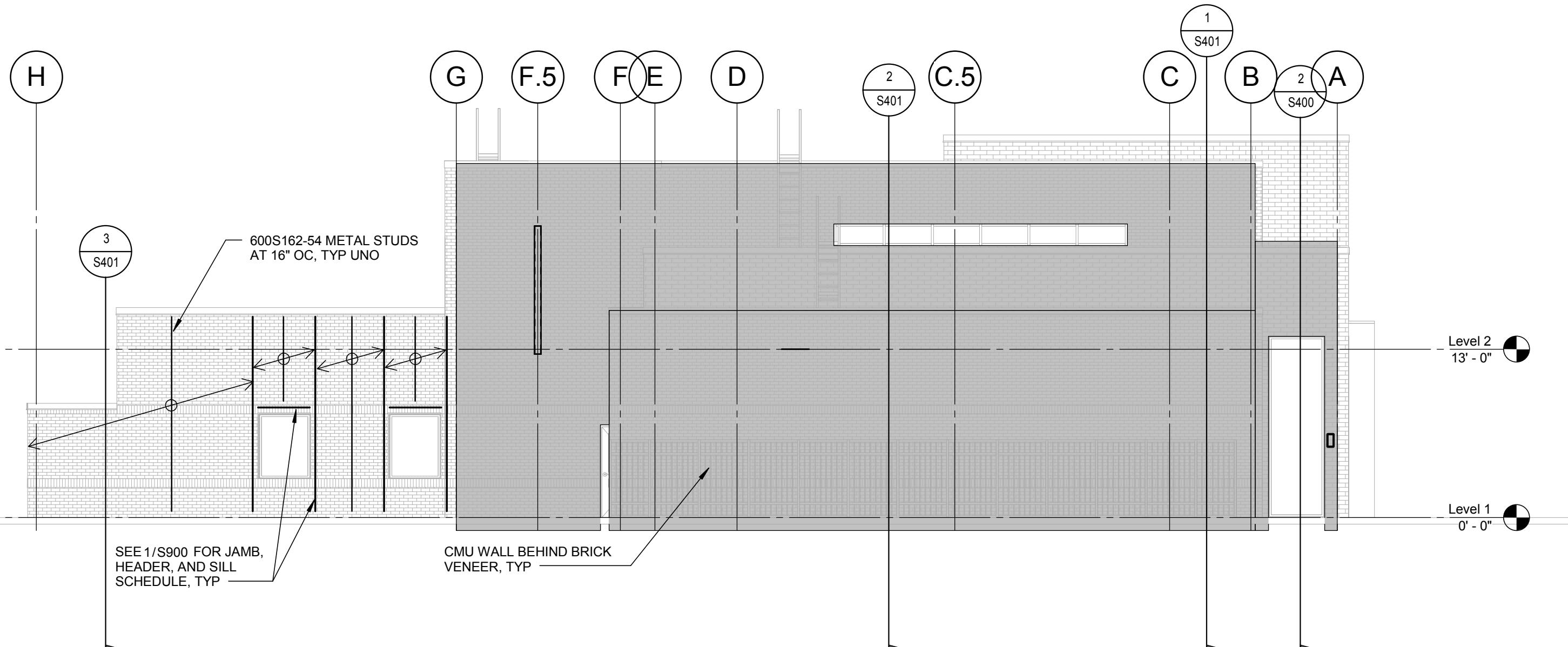
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| PROJECT NUMBER    | 114747.2            |
| PROJECT MANAGER   | R. TeBeau           |
| PROJECT ARCHITECT | R. TeBeau           |
| DESIGN            | B. Harris/R. TeBeau |
| DRAWN BY          | Author              |

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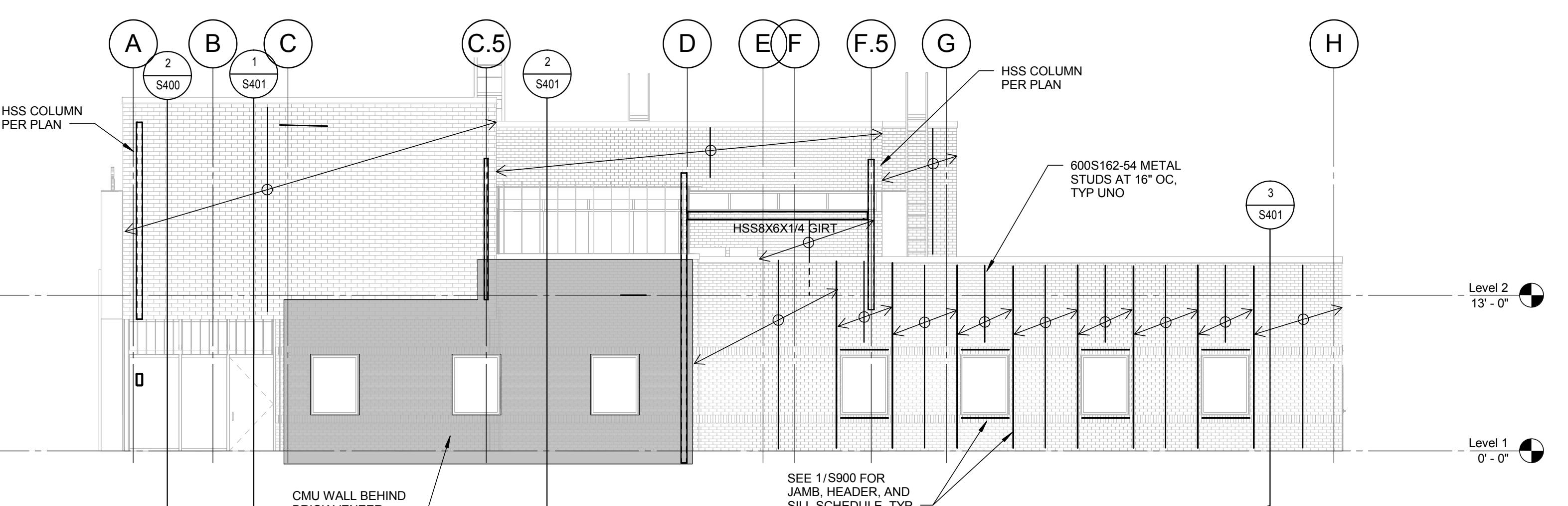
**EXTERIOR ELEVATIONS**

SHEET NUMBER:

**S301**



**1 EAST ELEVATION**



**2 WEST ELEVATION**

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PROJECT PHASE **75% CD**

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| PROJECT NUMBER    | 114747.2            |
| PROJECT MANAGER   | R. TeBeau           |
| PROJECT ARCHITECT | R. TeBeau           |
| DESIGN            | B. Harris/R. TeBeau |
| DRAWN BY          | Author              |

SHEET NAME:

**WALL/FRAME ELEVATIONS**

SHEET NUMBER:

**S350**

NOTE:  
A INDICATES CONNECTION TYPE PER 1/S702.

**WALL/FRAME ELEVATION**

1

SCALE: 3/8" = 1'-0"

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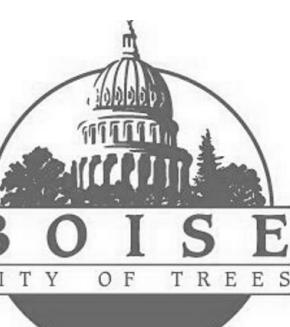
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REVISIONS:

| MARK | DATE | DESCRIPTION |
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PROJECT PHASE: 75% CD

PROJECT NUMBER: 114747.2

PROJECT MANAGER: R. TeBeau

PROJECT ARCHITECT: R. TeBeau

DESIGN: B. Harris/R. TeBeau

DRAWN BY: Author

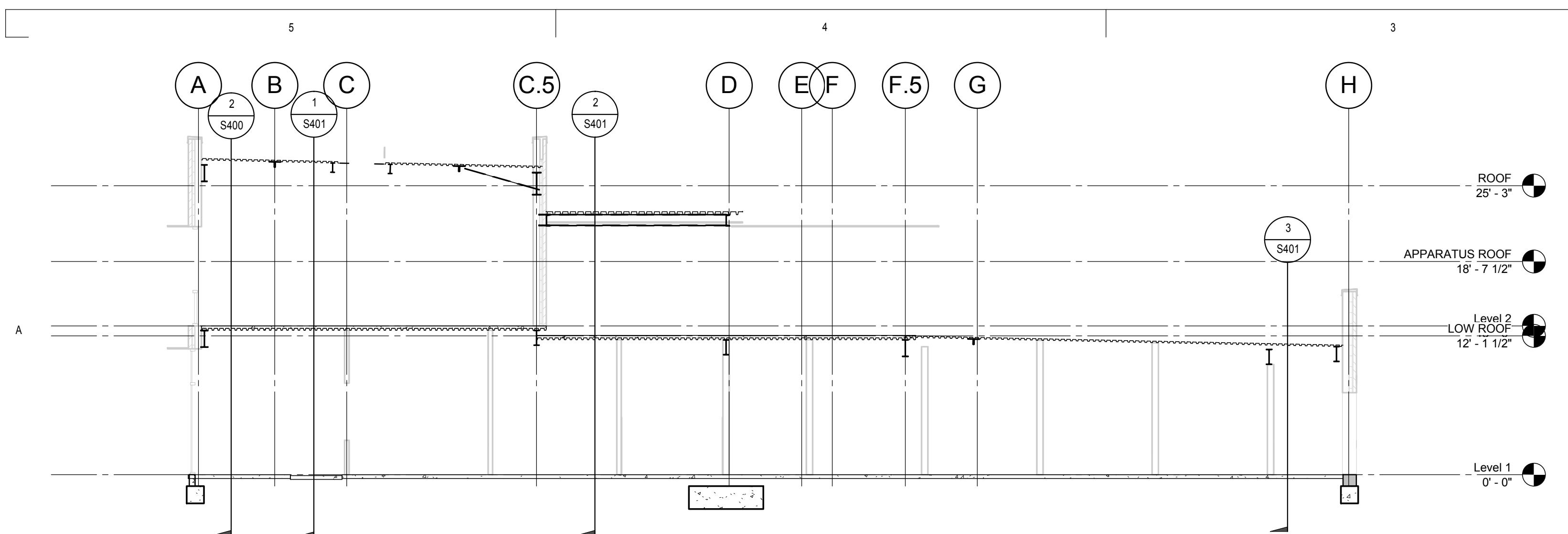
SHEET NAME:

BUILDING SECTIONS

SHEET NUMBER:

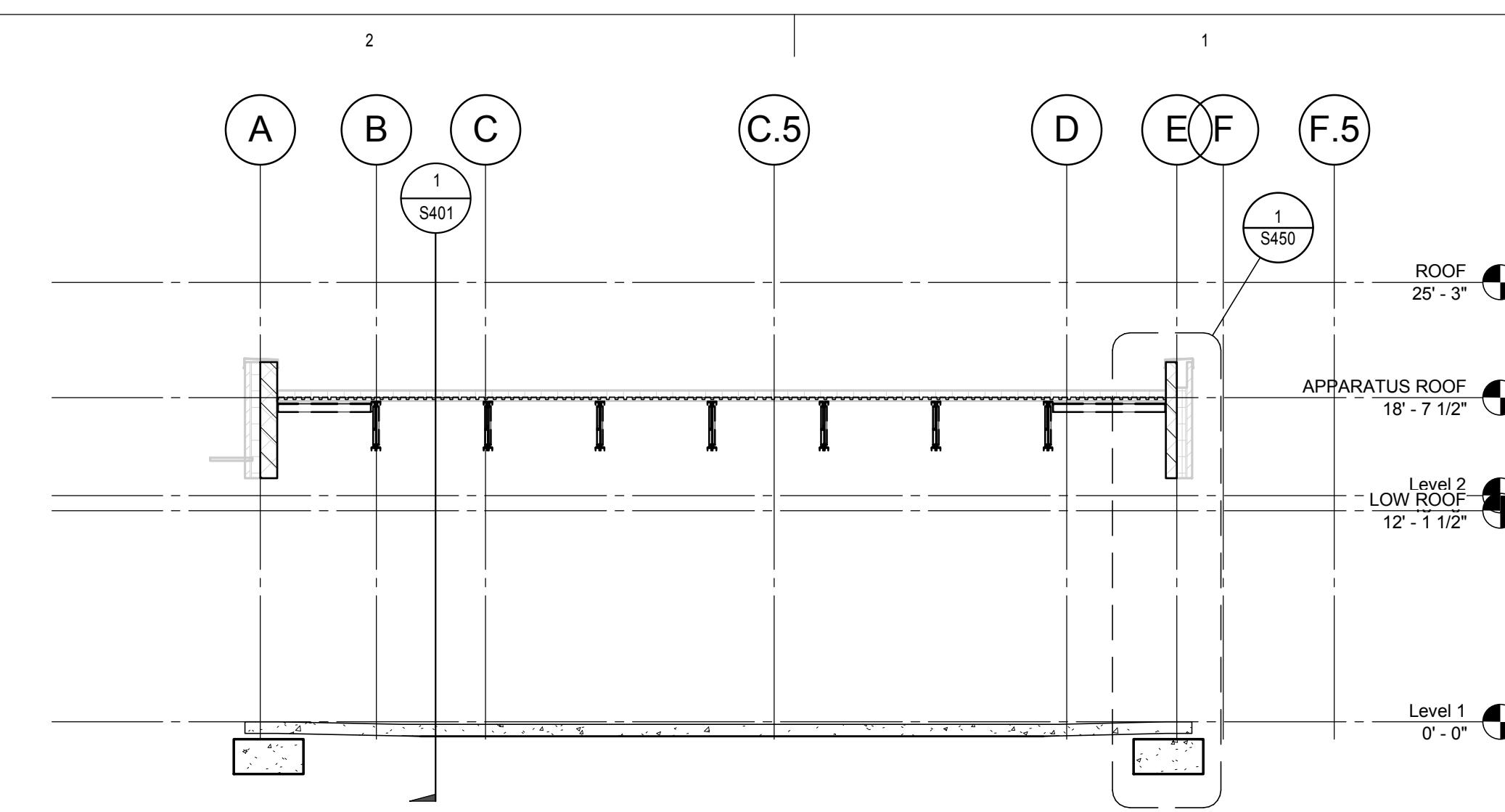
**S400**

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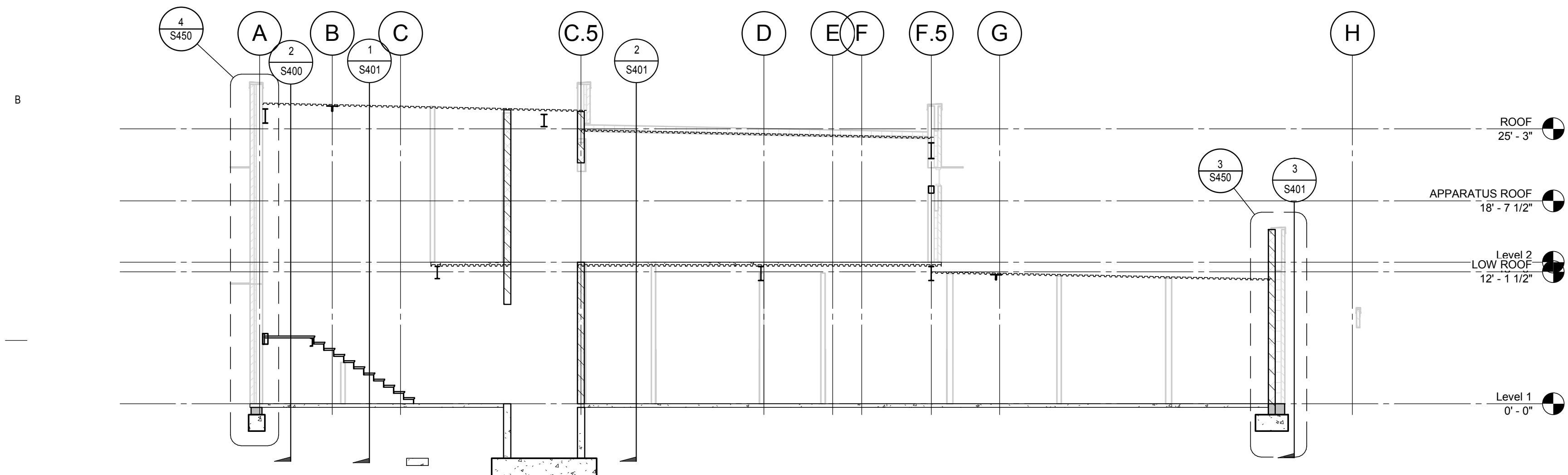
3 BUILDING SECTION

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



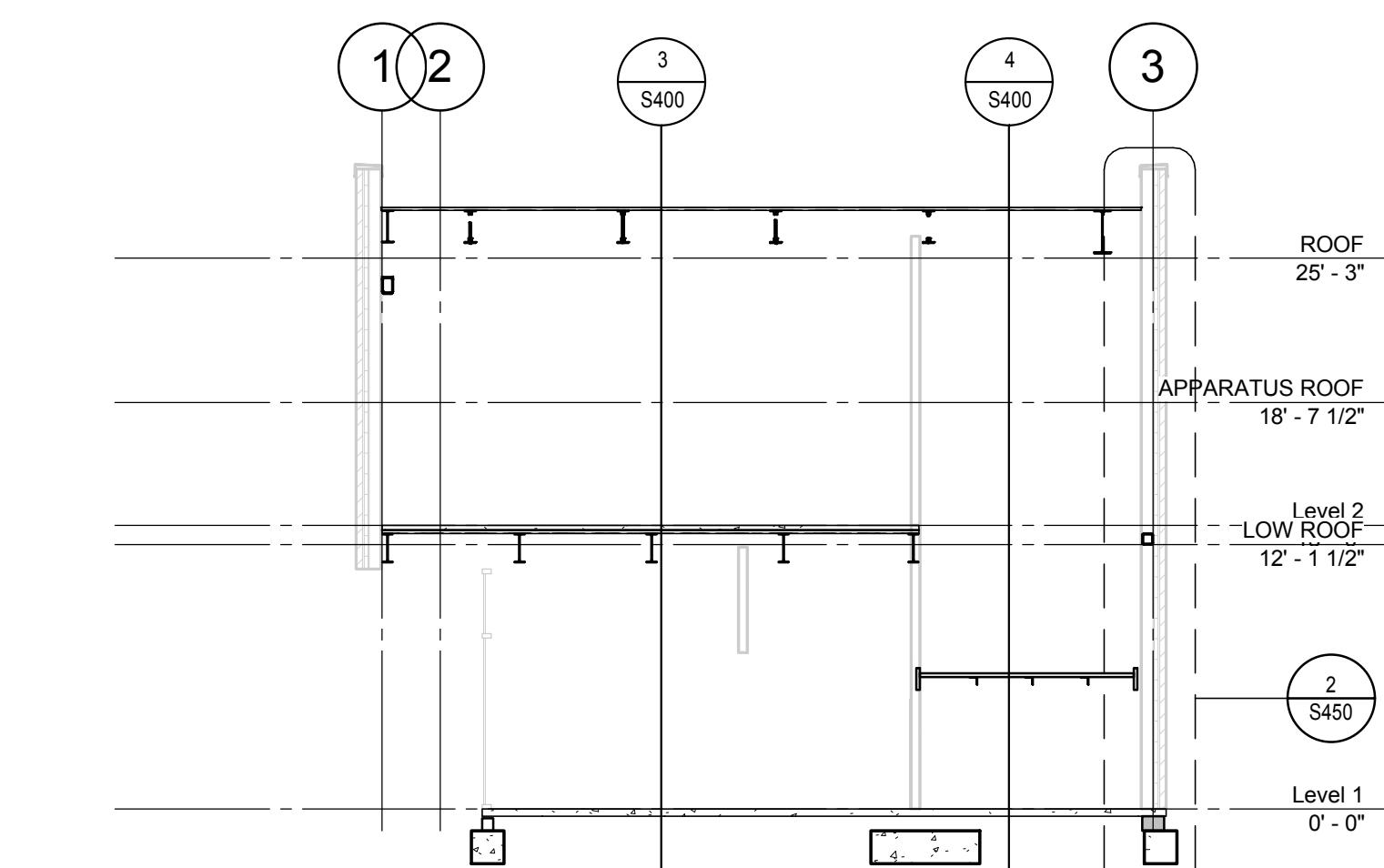
1 BUILDING SECTION

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



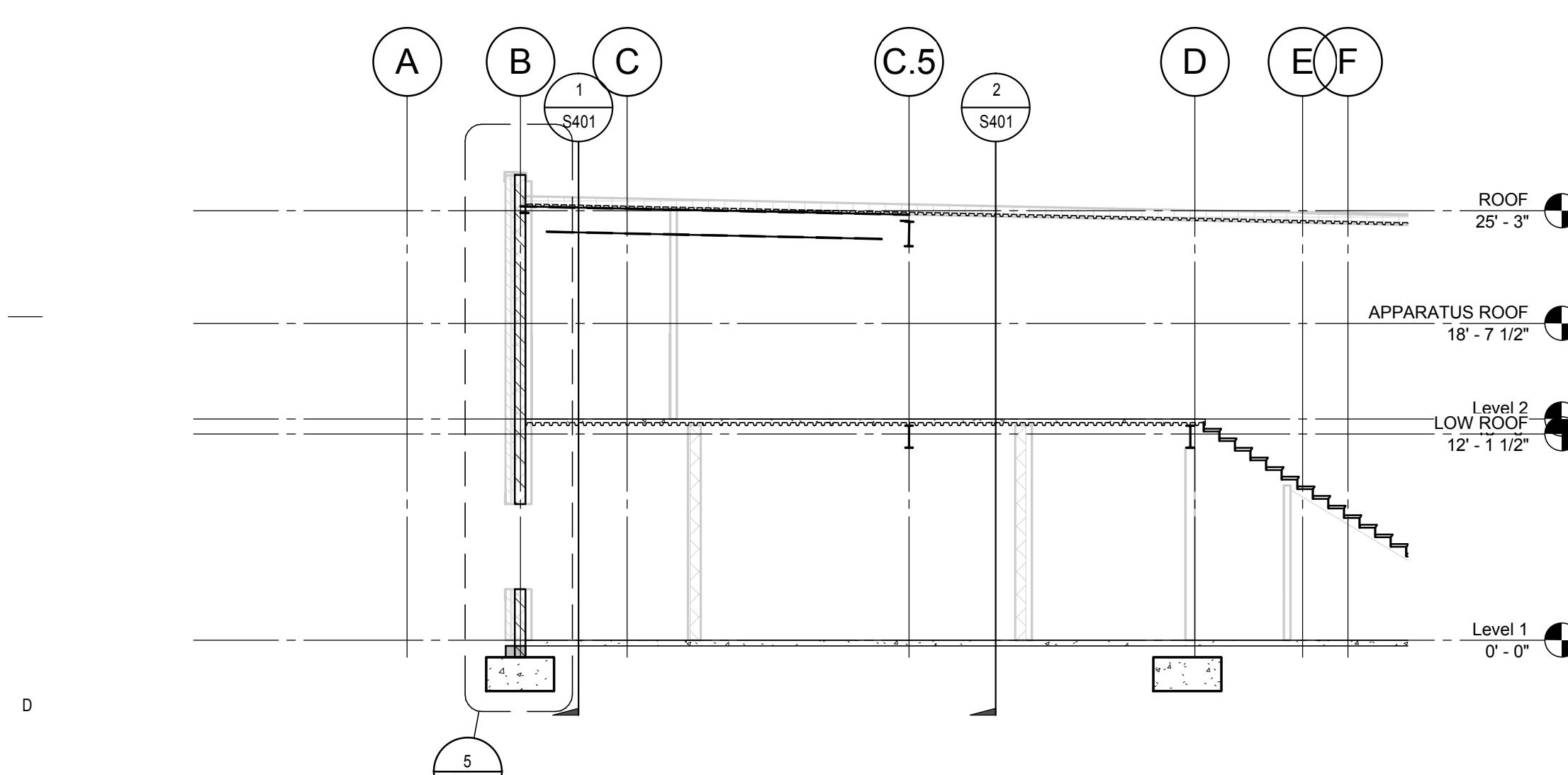
4 BUILDING SECTION

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



2 BUILDING SECTION

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



5 BUILDING SECTION

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

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REVISIONS:

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PROJECT PHASE: **75% CD**

PROJECT NUMBER: 114747.2

PROJECT MANAGER: R. TeBeau

PROJECT ARCHITECT: R. TeBeau

DESIGN: B. Harris/R. TeBeau

DRAWN BY: Author

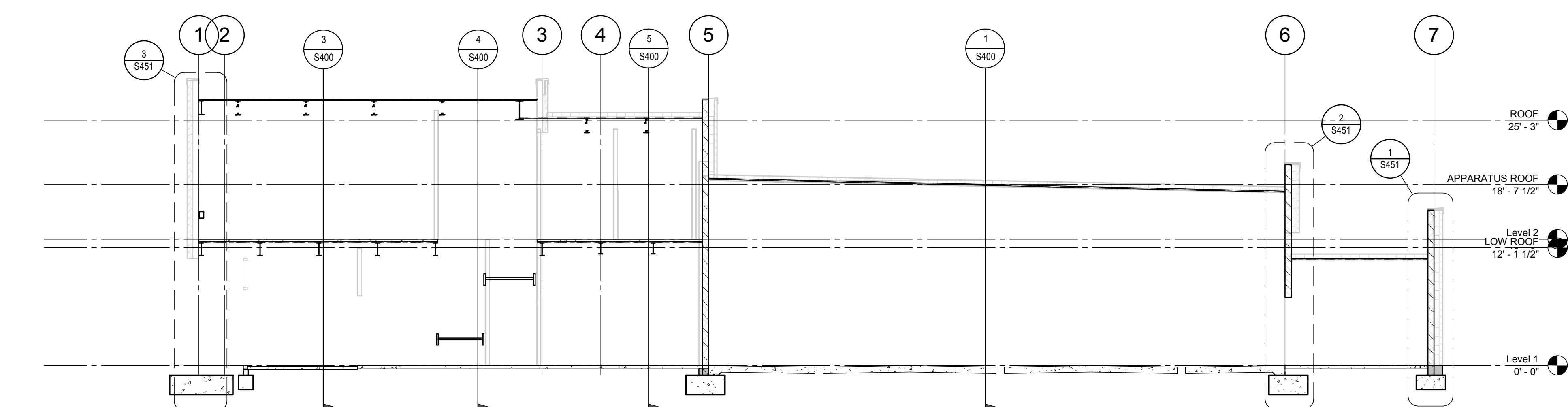
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**BUILDING SECTIONS**

SHEET NUMBER:

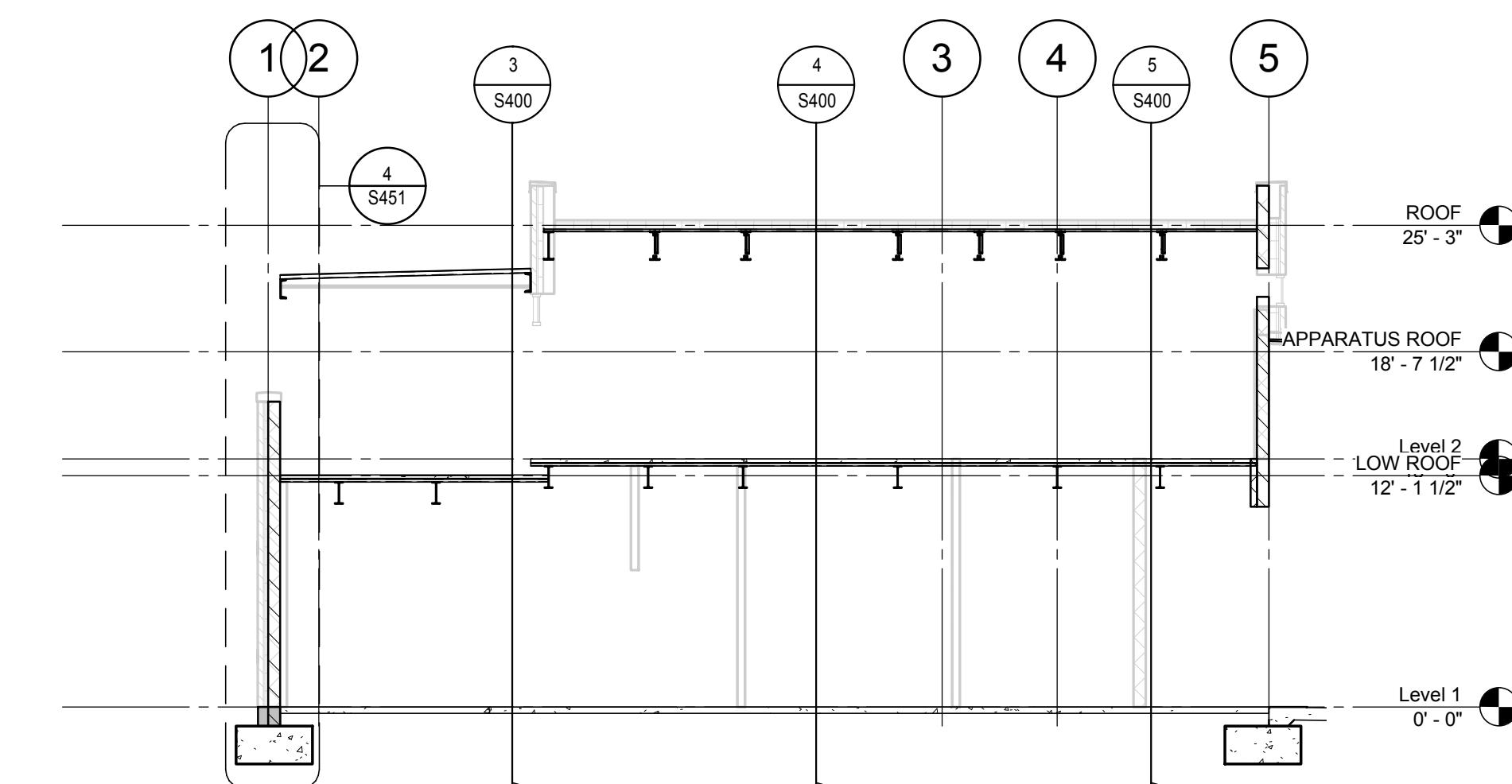
**S401**

11.09.15



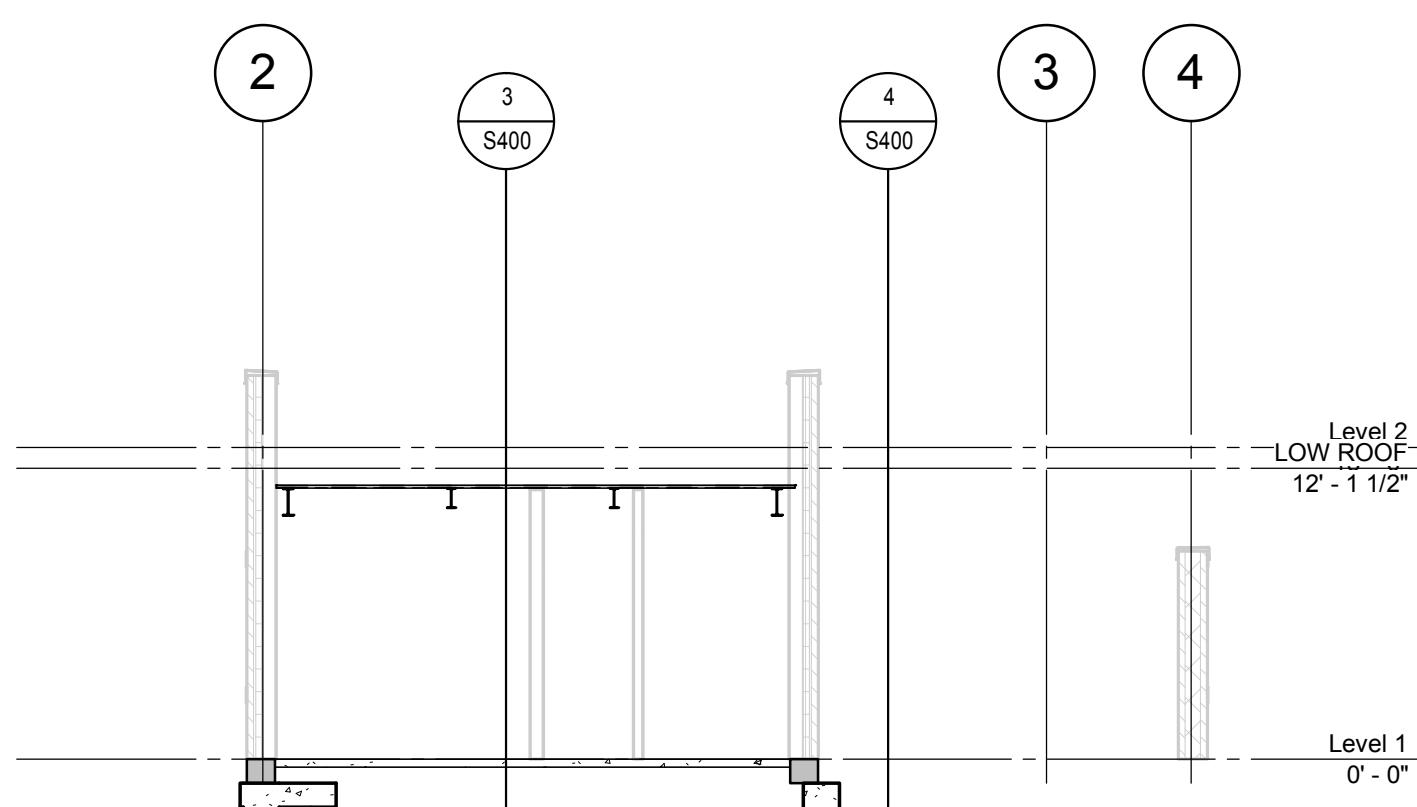
**1 BUILDING SECTION**

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



**2 BUILDING SECTION**

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



**3 BUILDING SECTION**

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

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PROJECT PHASE: 75% CD

PROJECT NUMBER: 114747.2

PROJECT MANAGER: R. TeBeau

PROJECT ARCHITECT: R. TeBeau

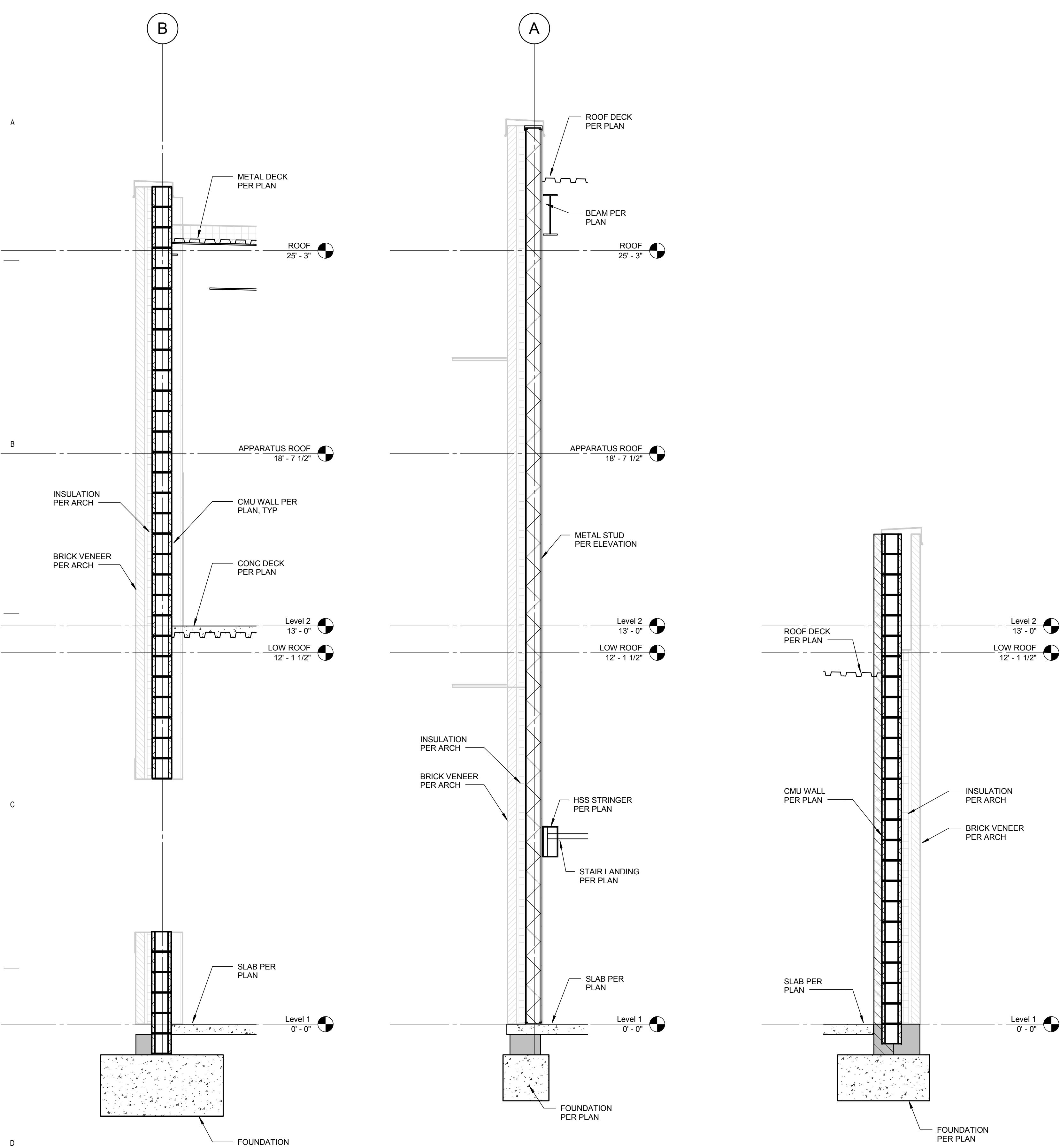
DESIGN: B. Harris/R. TeBeau

DRAWN BY: Author

SHEET NAME:

**WALL SECTIONS**

SHEET NUMBER:

**S450**

**5 WALL SECTION**  
SCALE: 1/2" = 1'-0"

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

**3 WALL SECTION**  
SCALE: 1/2" = 1'-0"

**2 WALL SECTION**  
SCALE: 1/2" = 1'-0"

**1 WALL SECTION**  
SCALE: 1/2" = 1'-0"

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Boise, ID 83702 | (208) 345-1800

**T C A**

architecture • planning  
TCA | 621 Roosevelt Way NE  
Seattle, WA 98115 | (206) 522-3620

STAMP:

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CONSULTANT:

**kpf**  
412 E. Parkcenter Blvd, Suite 204  
Boise, ID 83706  
O: 208.336.6985  
[www.kpff.com](http://www.kpff.com)

PROJECT INFORMATION:



**City of Boise Fire Station #8**  
3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

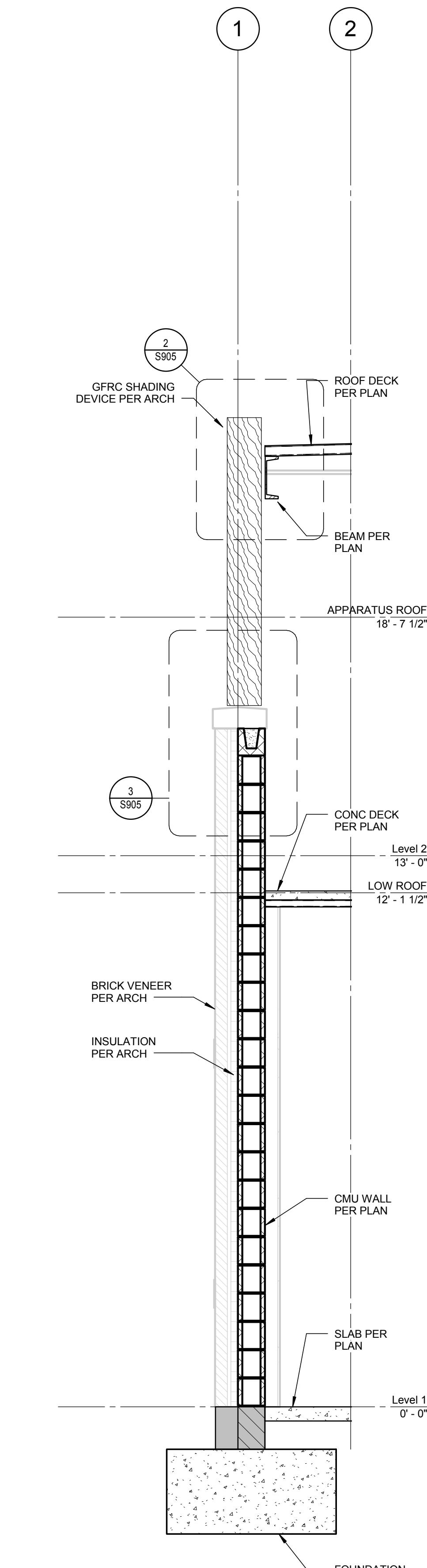
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|------|------|-------------|
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|                   |                     |
|-------------------|---------------------|
| PROJECT PHASE     | 75% CD              |
| PROJECT NUMBER    | 114747.2            |
| PROJECT MANAGER   | R. TeBeau           |
| PROJECT ARCHITECT | R. TeBeau           |
| DESIGN            | B. Harris/R. TeBeau |
| DRAWN BY          | Author              |

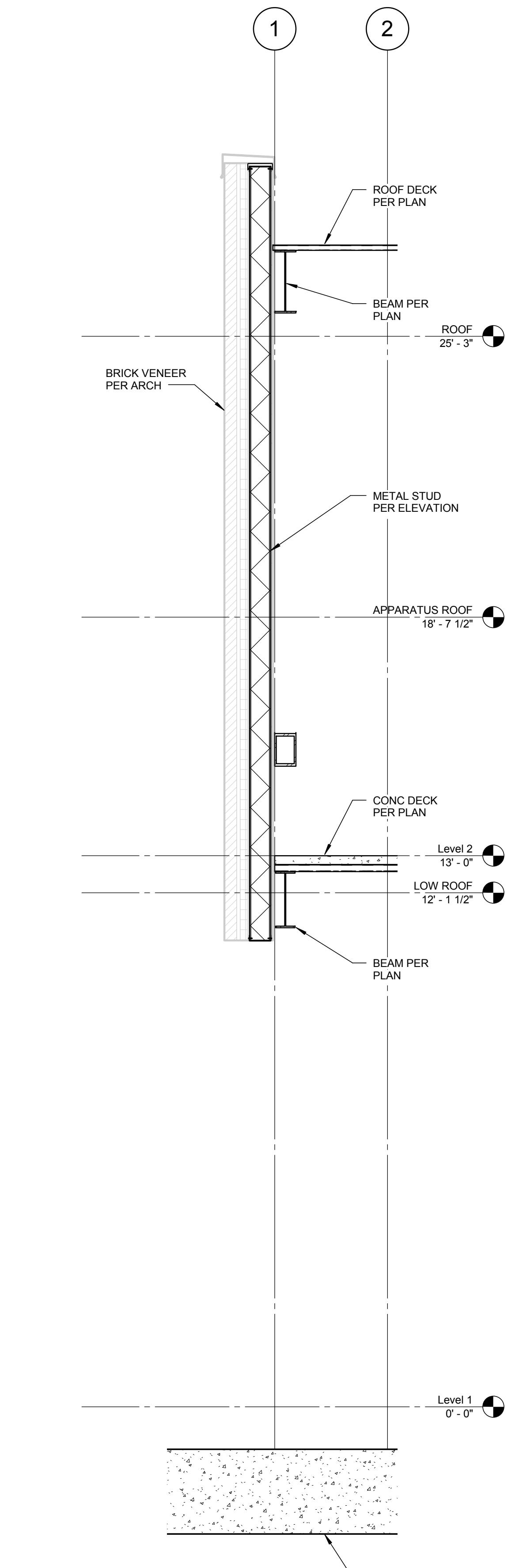
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| SHEET NUMBER: |  |
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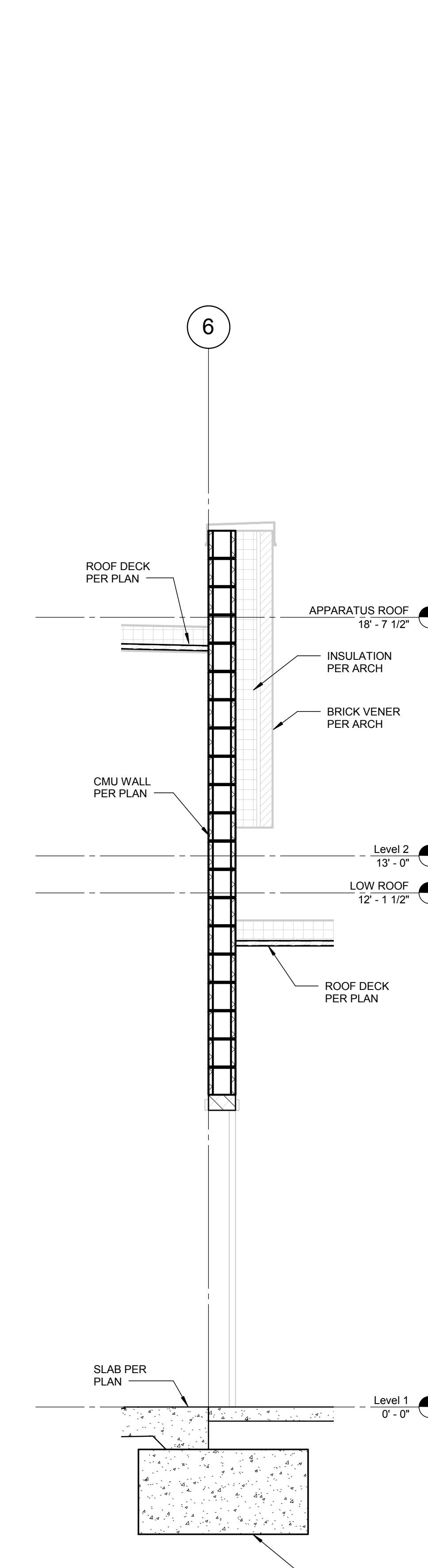
**S451**



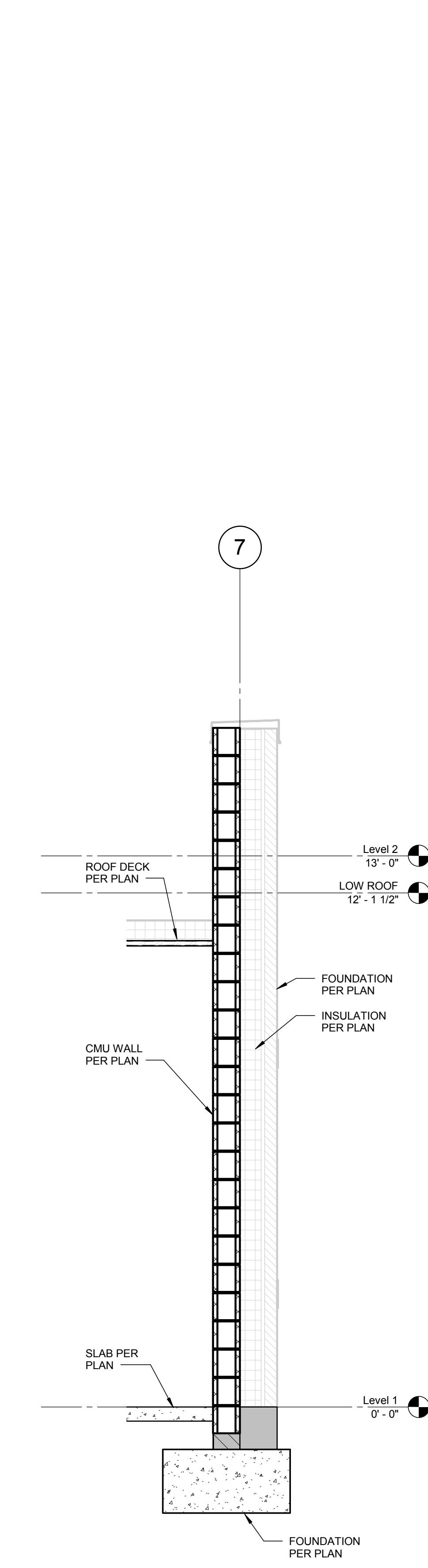
**4 WALL SECTION**  
SCALE : 1/2" = 1'-0"



**3 WALL SECTION**  
SCALE : 1/2" = 1'-0"



**2 WALL SECTION**  
SCALE : 1/2" = 1'-0"



**1 WALL SECTION**  
SCALE : 1/2" = 1'-0"

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PROJECT INFORMATION:



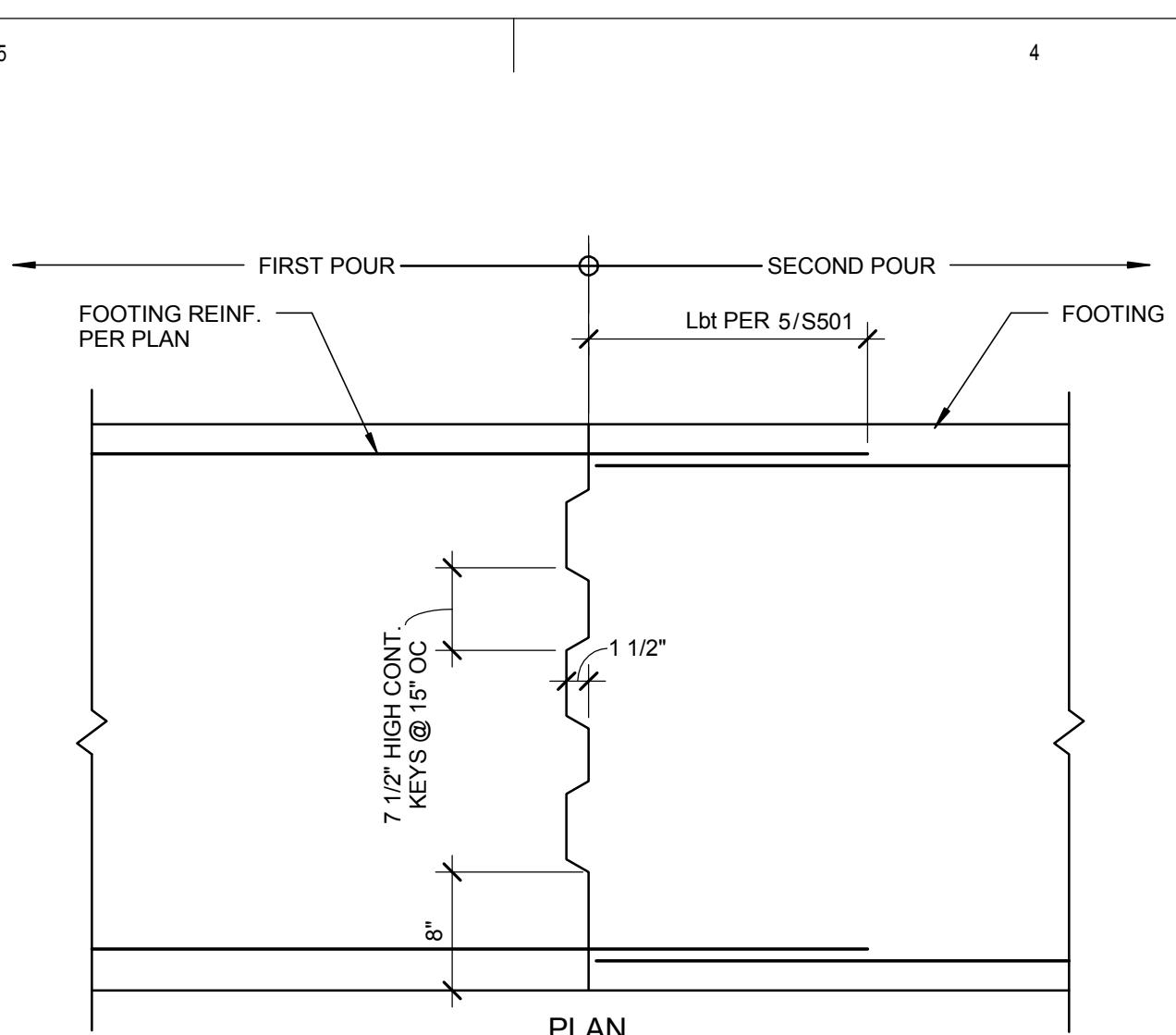
**City of Boise Fire Station #8**  
3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

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| SHEET NAME:       |                     |

**TYPICAL CONCRETE DETAILS**

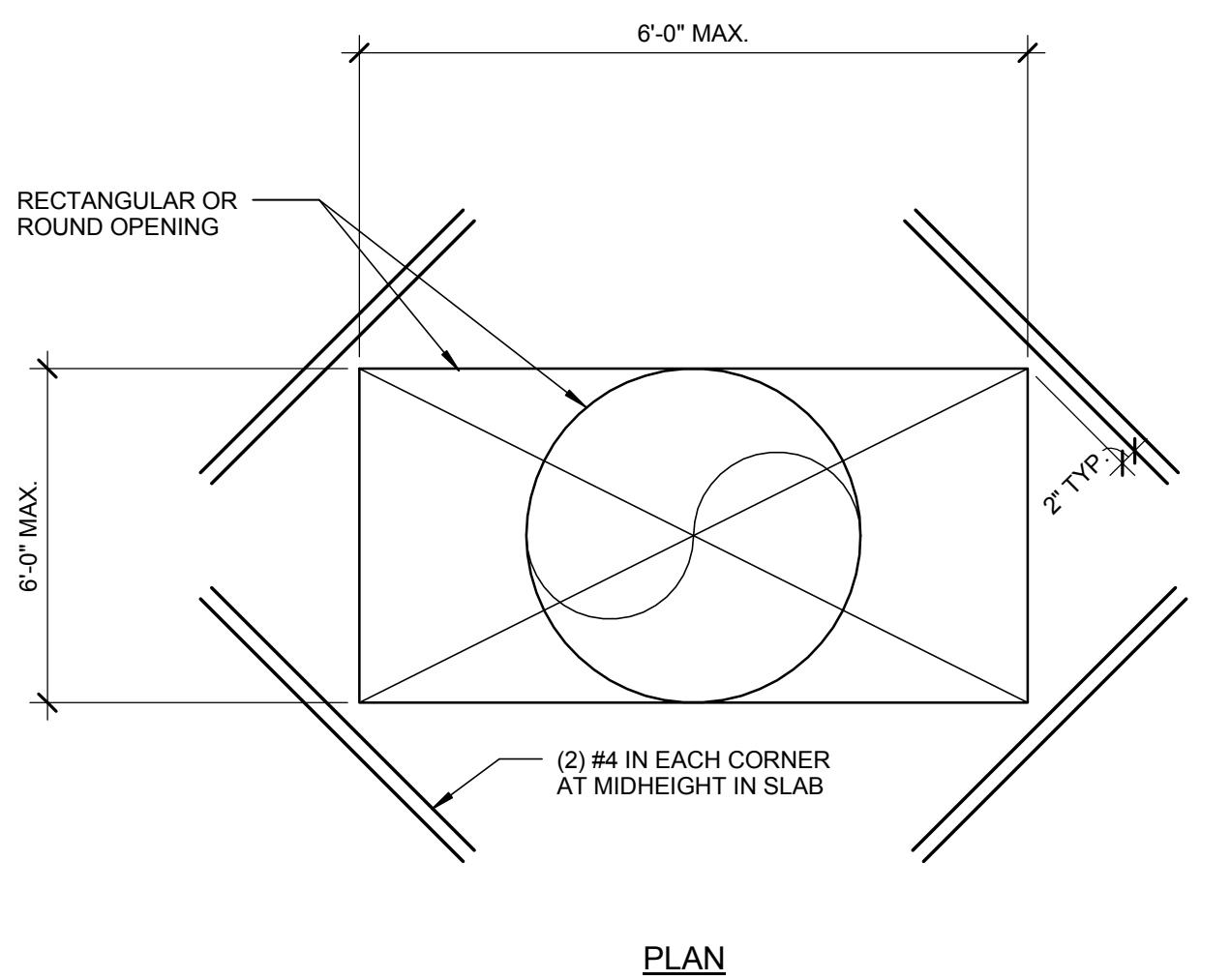
**S501**

NOTE:

WHERE CONTINUOUS FOOTING IS UNDER A WALL, LOCATE CONSTRUCTION JOINT AT 1/4 OF THE CLEAR OPENING WIDTH ABOVE FROM FACE OF OPENING, OR IN MIDDLE 1/3 OF THE DISTANCE BETWEEN COLUMNS.

## 6 CONT FOOTING CONSTRUCTION JOINT

SCALE : 1" = 1'-0"

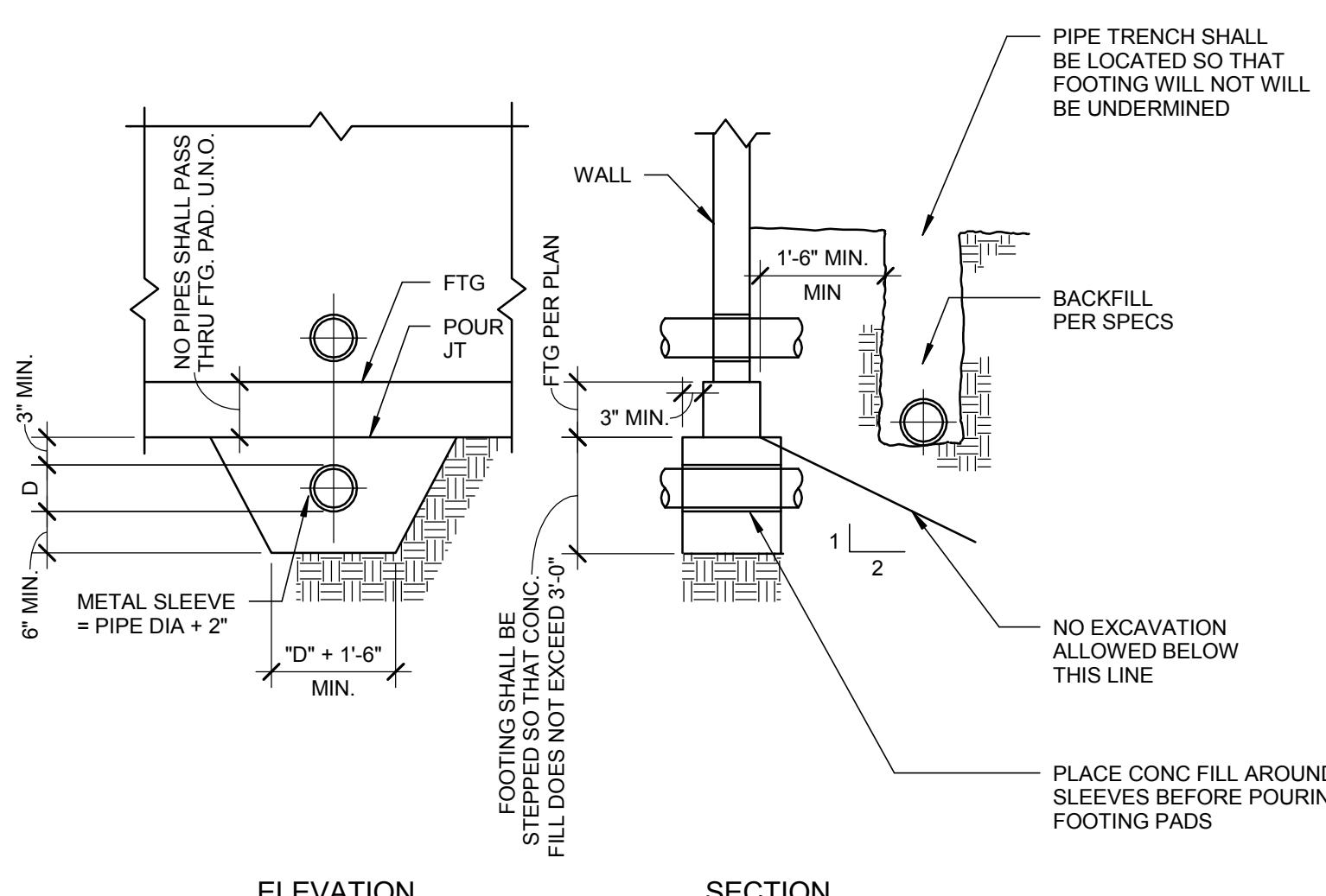


NOTE:

ELIMINATE BARS AND KEYED JOINT IF OPENING IS LESS THAN 2'-0".

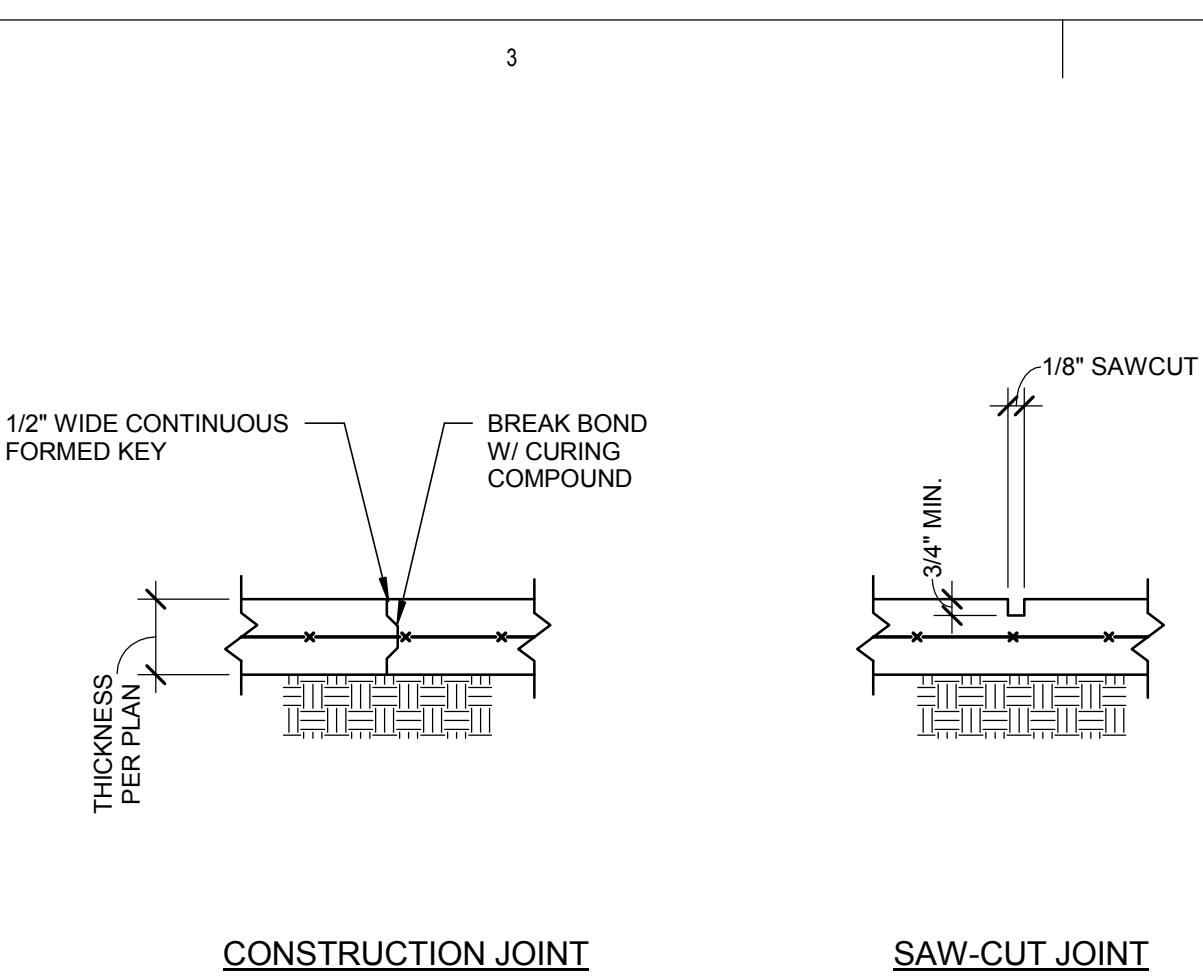
## 7 OPENING IN SLAB-ON-GRADE

SCALE : 1" = 1'-0"



## 8 PIPE RENCH/FOOTING DETAIL

SCALE : 1" = 1'-0"



NOTES:

1. CONTROL JOINTS TO BE LOCATED AT COLUMN CENTER LINES AND AT 10'-0" MAX AND EVERY 400 SQUARE FEET.
2. IF SAW-CUT CONTROL JOINT TO BE USED, SAW-CUT WITHIN 24 HOURS OF POUR.
3. CONSTRUCTION JOINT TO BE LOCATED AS PER NOTE #1 UNLESS SPECIFICALLY INDICATED ON PLANS.

## 4 SLAB-ON-GRADE JOINTS

SCALE : 1" = 1'-0"

fc= 3,000 psi

| Size | Ld | Ldt | Lb  | Lbt | Ldh |
|------|----|-----|-----|-----|-----|
| #4   | 22 | 28  | 28  | 37  | 11  |
| #5   | 27 | 36  | 36  | 46  | 14  |
| #6   | 33 | 43  | 43  | 56  | 16  |
| #7   | 48 | 62  | 62  | 81  | 19  |
| #8   | 55 | 71  | 71  | 93  | 22  |
| #9   | 62 | 80  | 80  | 104 | 25  |
| #10  | 70 | 90  | 90  | 118 | 28  |
| #11  | 77 | 100 | 100 | 131 | 31  |

fc= 4,000 psi

fy = 60,000 psi

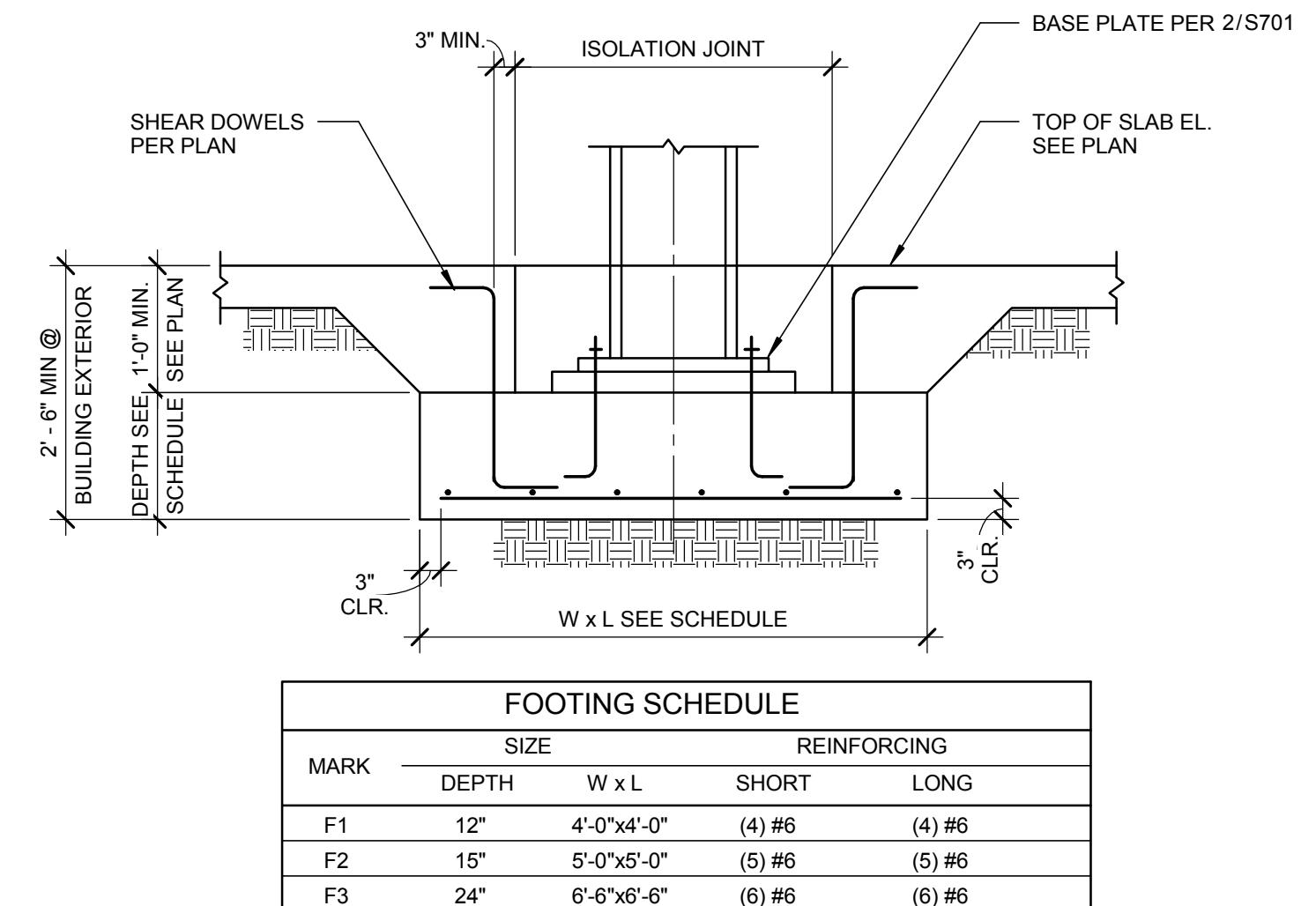
| Size | Ld | Ldt | Lb | Lbt | Ldh |
|------|----|-----|----|-----|-----|
| #4   | 19 | 25  | 25 | 32  | 9   |
| #5   | 24 | 31  | 31 | 40  | 12  |
| #6   | 28 | 37  | 37 | 48  | 14  |
| #7   | 42 | 54  | 54 | 70  | 17  |
| #8   | 47 | 62  | 62 | 80  | 19  |
| #9   | 54 | 70  | 70 | 90  | 21  |
| #10  | 60 | 78  | 78 | 102 | 24  |
| #11  | 67 | 87  | 87 | 113 | 27  |

## ABBREVIATIONS

- db = BAR DIAMETER
- Ld = TENSION DEVELOPMENT LENGTH
- Ldt = TENSION DEVELOPMENT LENGTH FOR A TOP BAR
- Lb = CLASS B LAP SPLICE LENGTH, 1.3 Ld
- Lbt = CLASS B LAP SPLICE LENGTH FOR A TOP BAR, 1.3 Ldt
- Ldh = TENSION DEVELOPMENT LENGTH FOR A STANDARD HOOK
- SEE DETAIL 2/S501 FOR STANDARD HOOK DETAIL REQUIREMENTS

## 5 DEVELOPMENT AND SPLICE LENGTH SCHEDULE

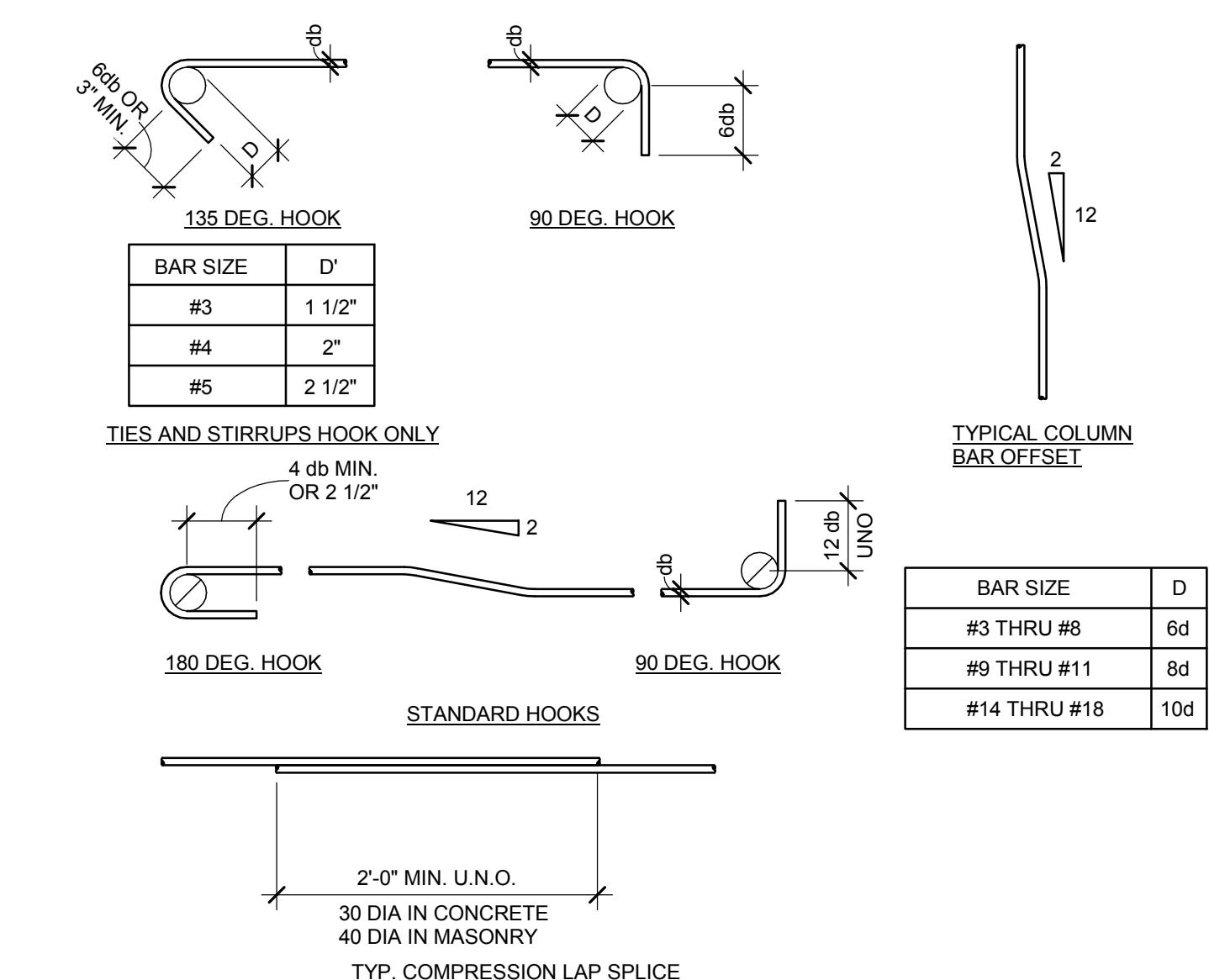
SCALE : 1" = 1'-0"



| FOOTING SCHEDULE |       |             |               |
|------------------|-------|-------------|---------------|
| MARK             | DEPTH | SIZE        | REINFORCING   |
|                  |       | W x L       | SHORT LONG    |
| F1               | 12"   | 4'-0"x4'-0" | (4) #6 (4) #6 |
| F2               | 15"   | 5'-0"x5'-0" | (5) #6 (5) #6 |
| F3               | 24"   | 6'-6"x6'-6" | (6) #6 (6) #6 |

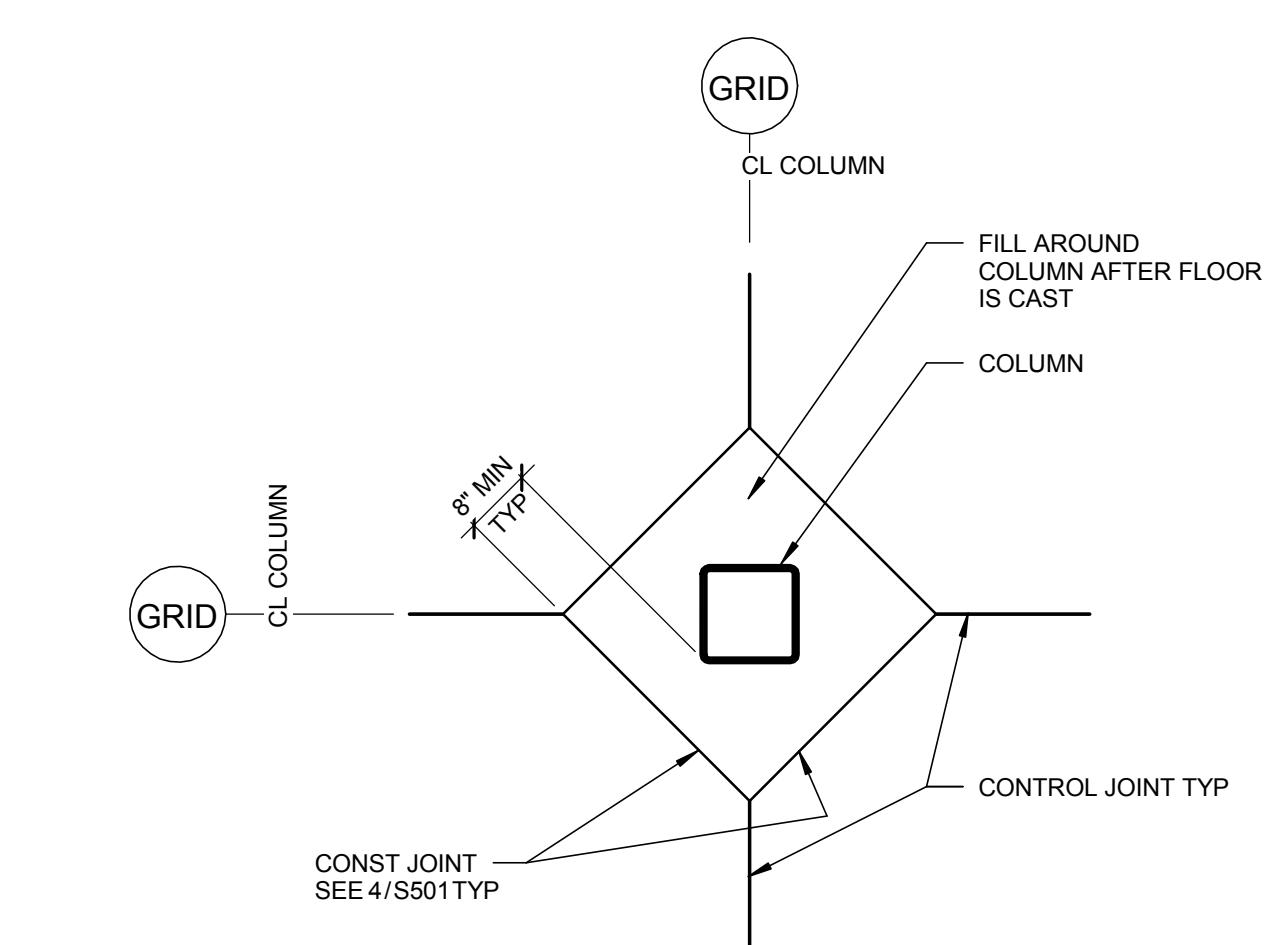
## 1 TYPICAL PAD FOOTING DETAIL

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



## 2 REINFORCING BAR BENDING DETAIL

SCALE : 1" = 1'-0"



## 3 ISOLATION AT COLUMN AND SLAB-ON-GRADE

SCALE : 1" = 1'-0"

11.09.15

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CONSULTANT:

**kpf**  
412 E. Parkcenter Blvd, Suite 204  
Boise, ID 83706  
O: 208.336.6985  
[www.kpff.com](http://www.kpff.com)

PROJECT INFORMATION:



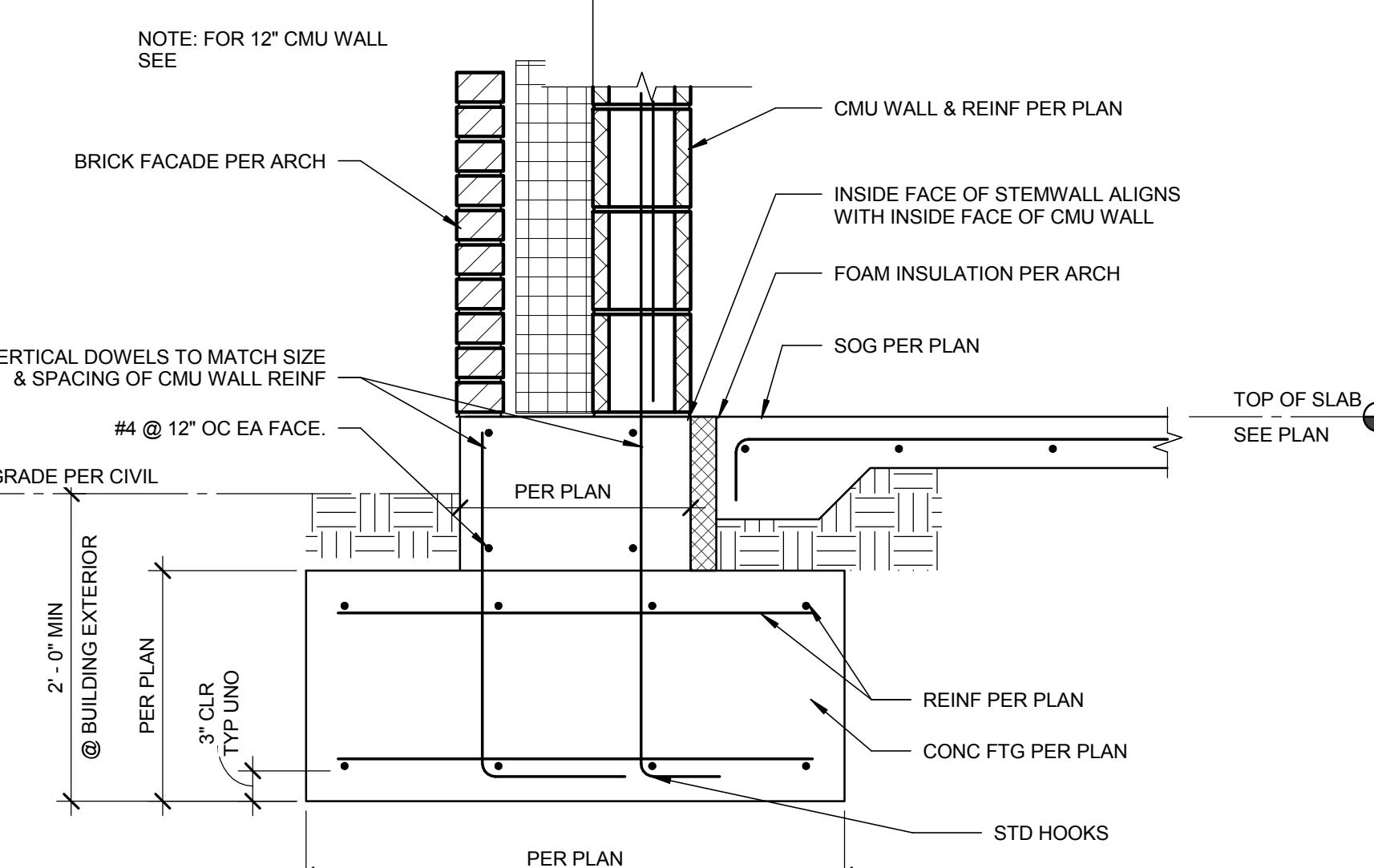
**City of Boise Fire Station #8**  
3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

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|      |      |             |

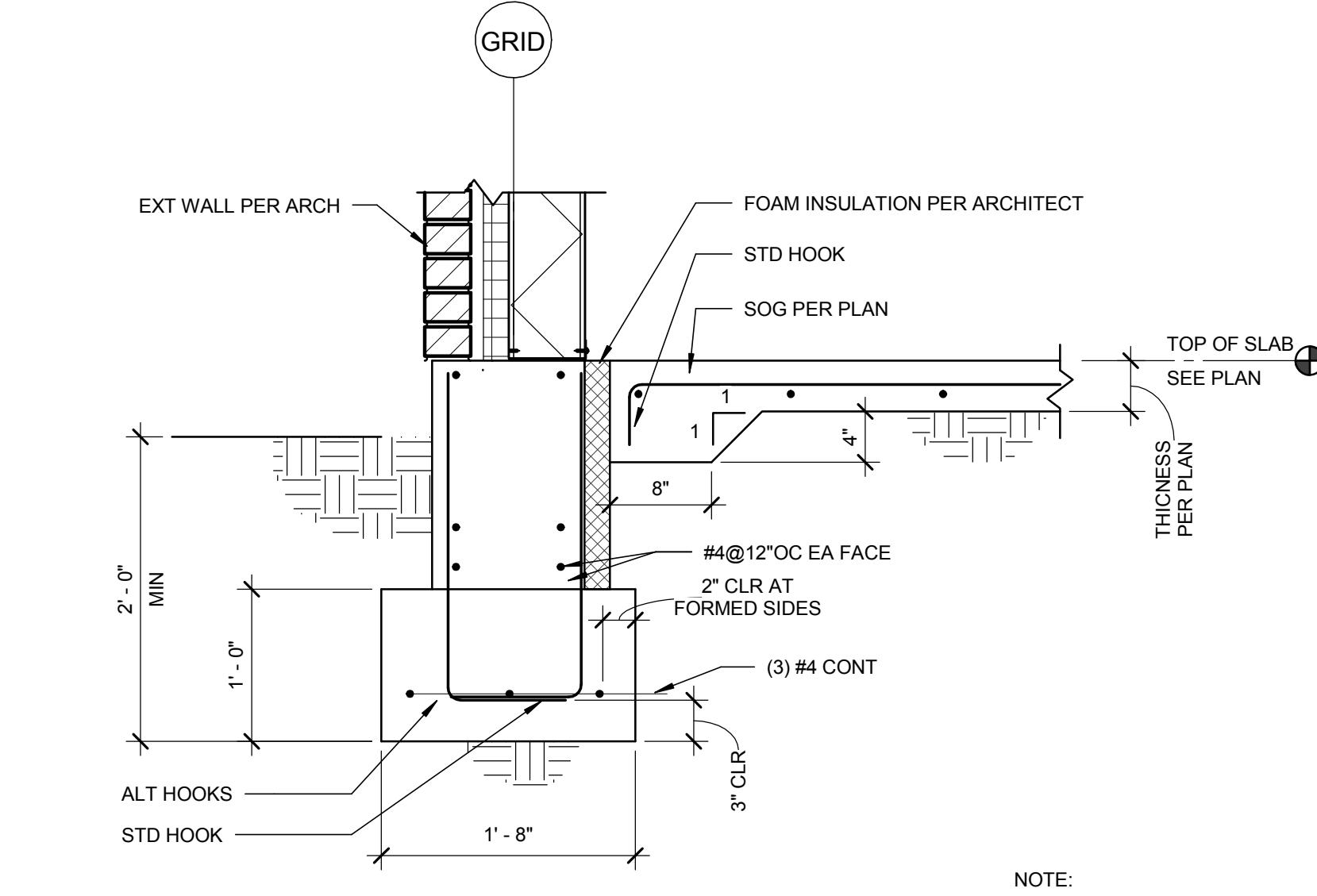
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|-------------------|---------------------|
| PROJECT PHASE     | 75% CD              |
| PROJECT NUMBER    | 114747.2            |
| PROJECT MANAGER   | R. TeBeau           |
| PROJECT ARCHITECT | R. TeBeau           |
| DESIGN            | B. Harris/R. TeBeau |
| DRAWN BY          | NLP                 |
| SHEET NAME:       |                     |

**TYPICAL CONCRETE DETAILS**

**S502**

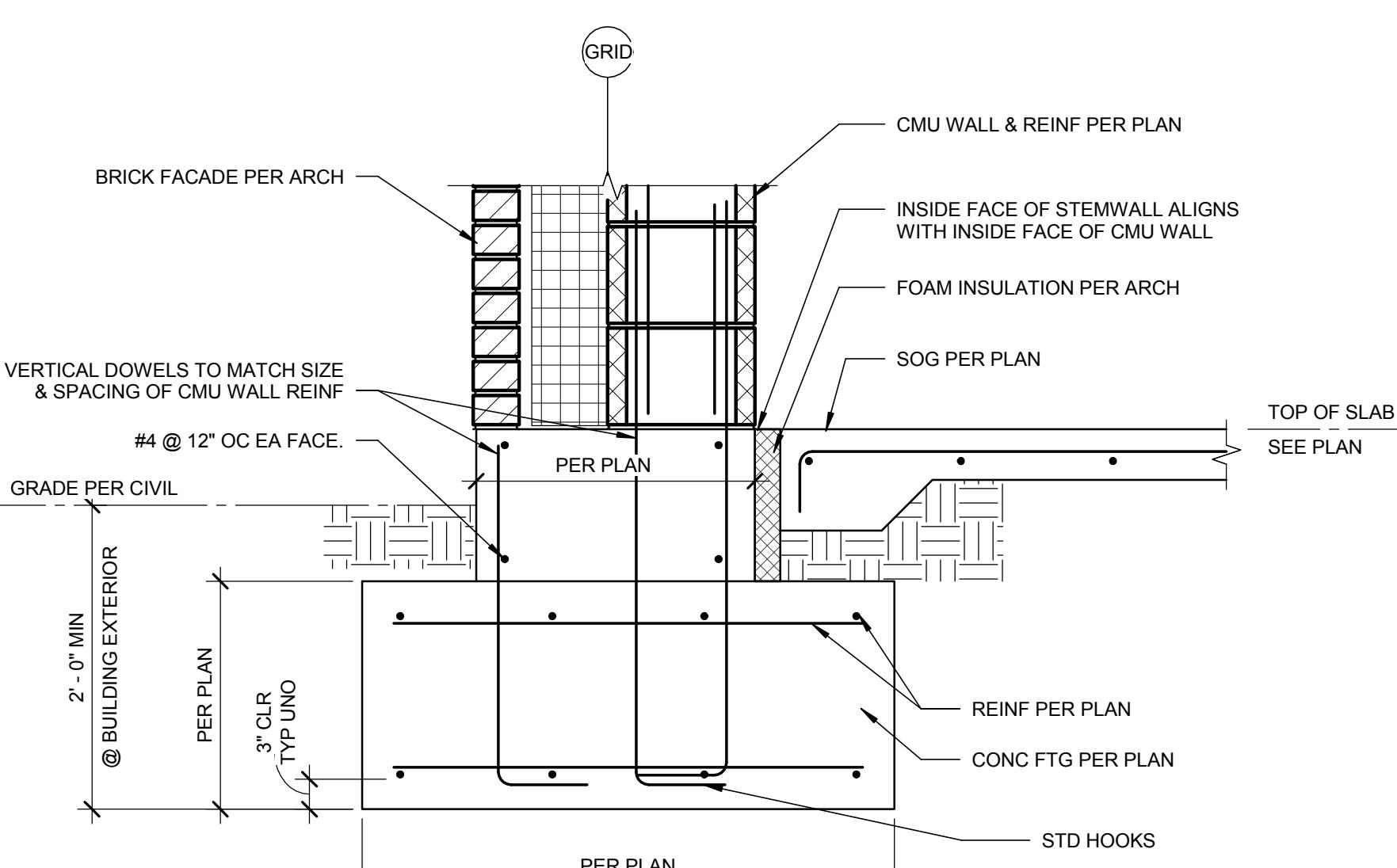
**4 FOOTING AT 8" CMU WALL**

SCALE : 1" = 1'-0"



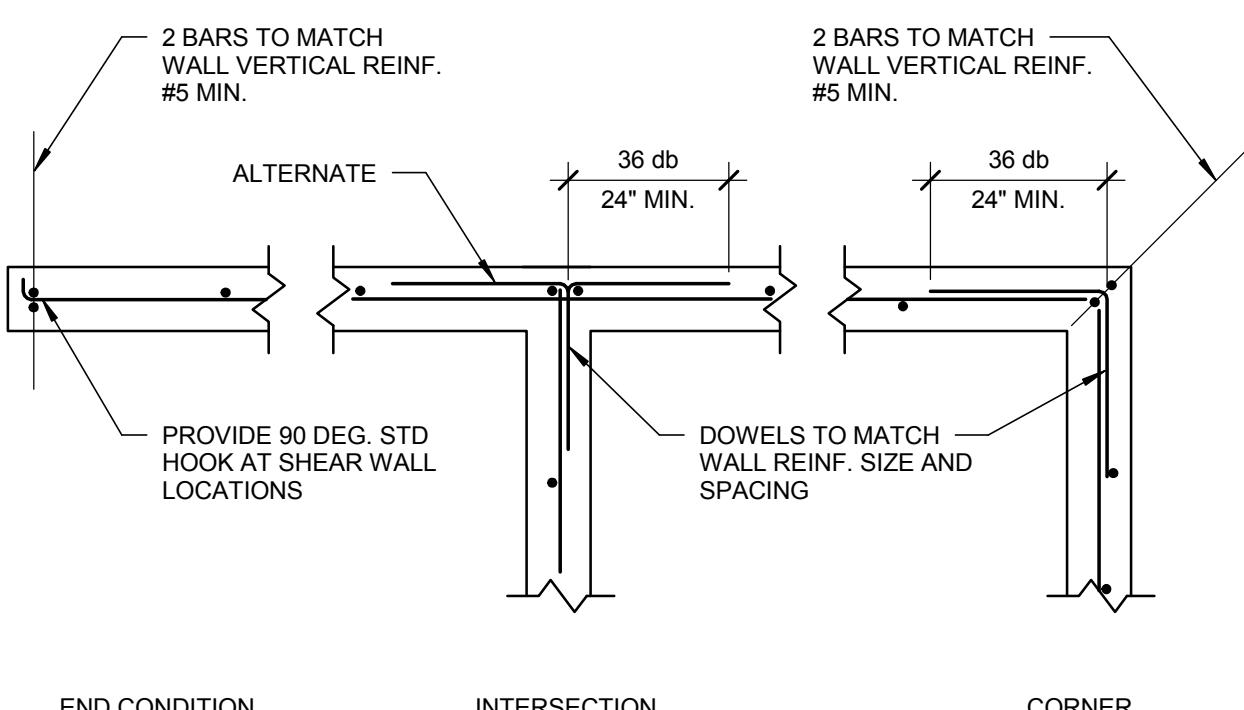
**1 TYPICAL EDGE-OF-SLAB**

SCALE : 1" = 1'-0"



**5 FOOTING AT 12" CMU WALL**

SCALE : 1" = 1'-0"



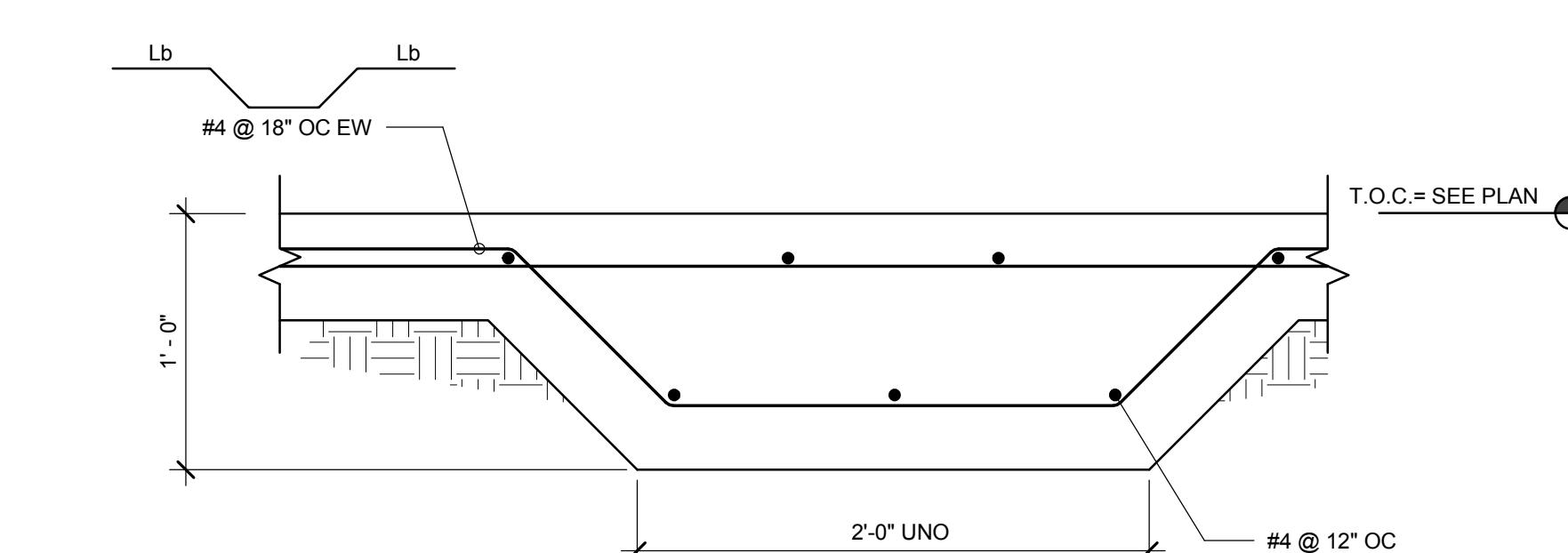
**6 WALL DETAILS/SINGL LAYER REINFORCING**

SCALE : 1" = 1'-0"

3

**2 EDGE OF SLAB-ON-GRADE AT WALL OPENINGS**

SCALE : 1" = 1'-0"



**3 THICKENED SLAB-ON-GRADE**

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

3

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PROJECT INFORMATION:


**City of Boise Fire Station #8**  
 3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

PROJECT PHASE: 75% CD

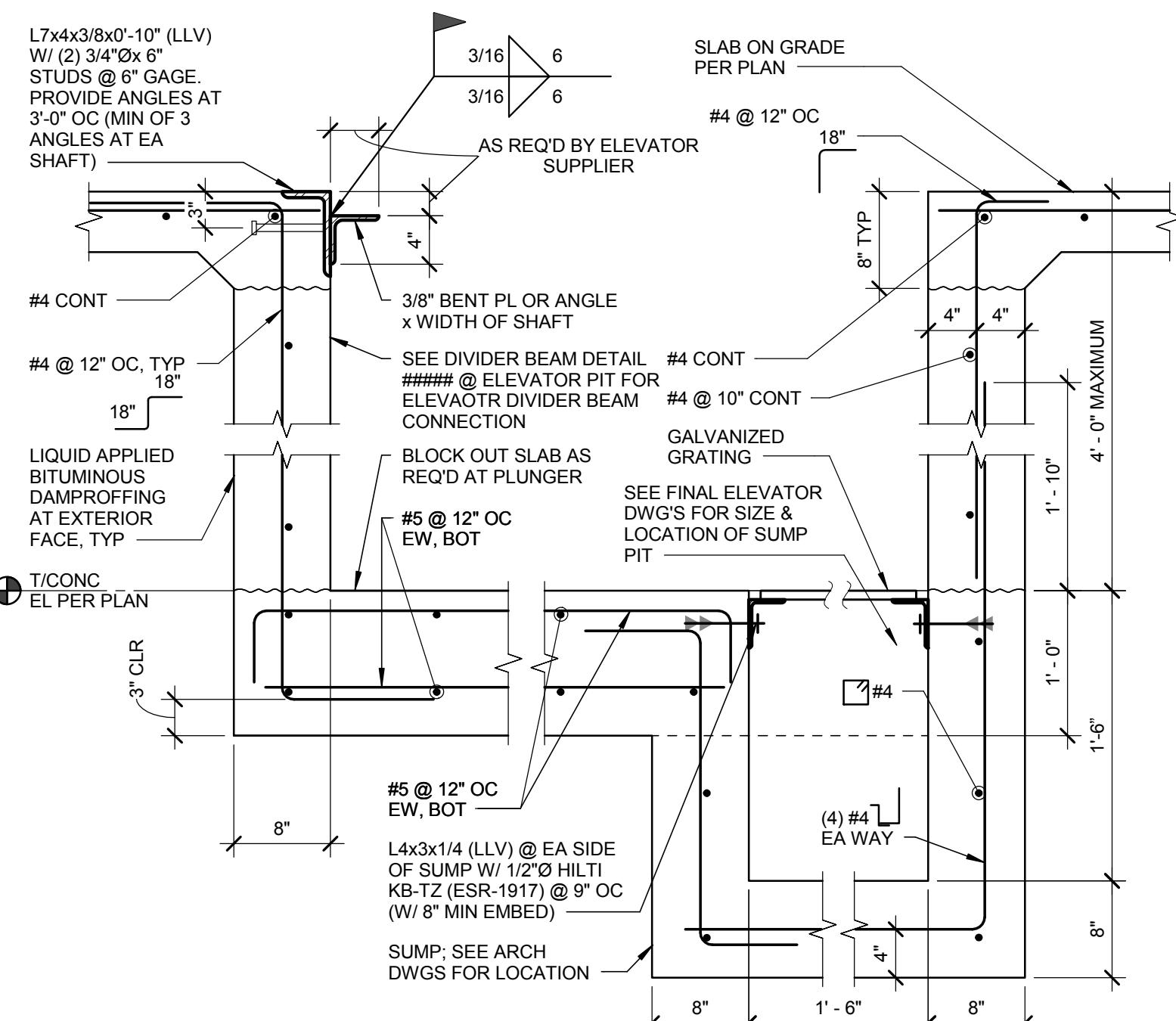
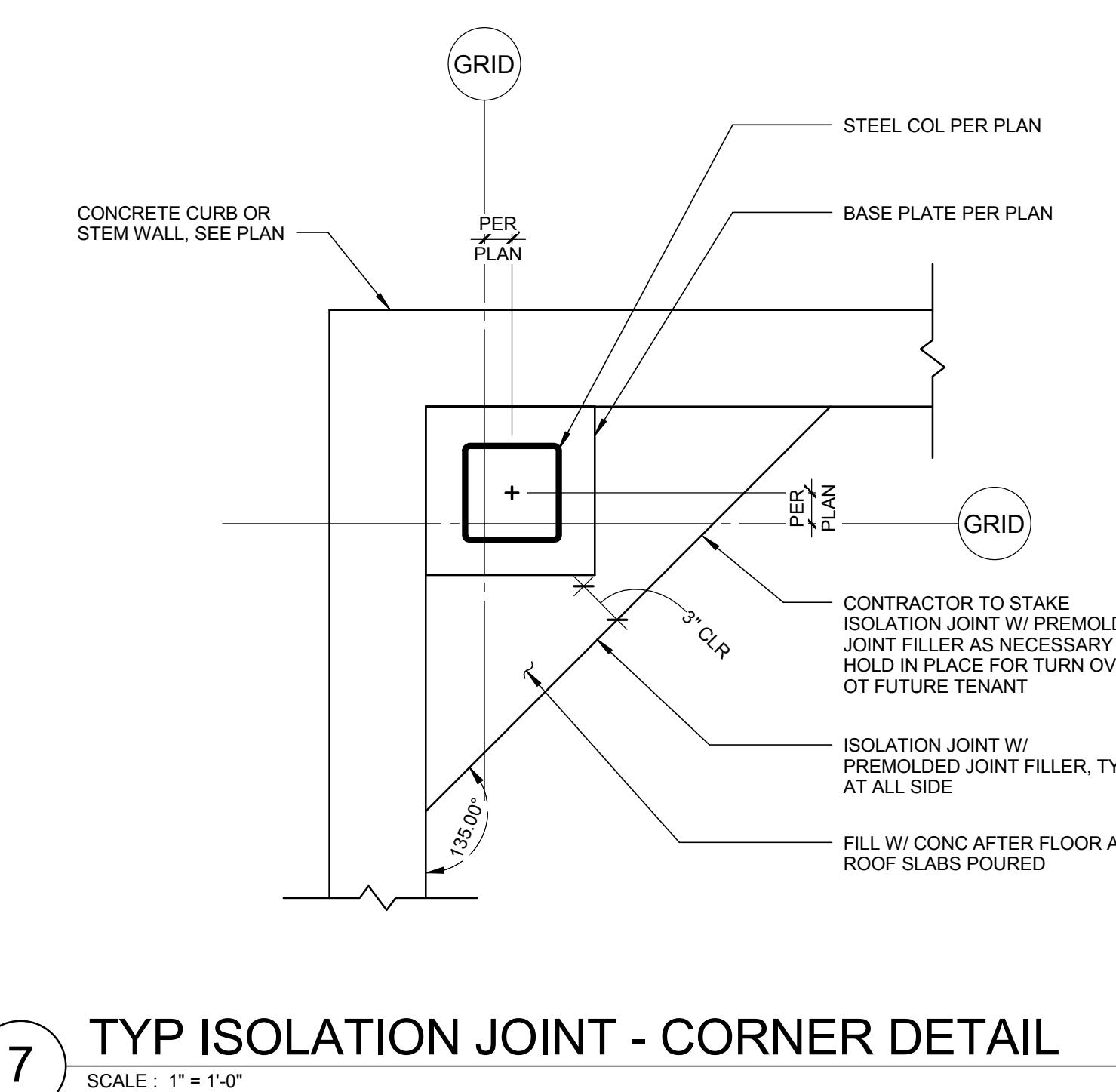
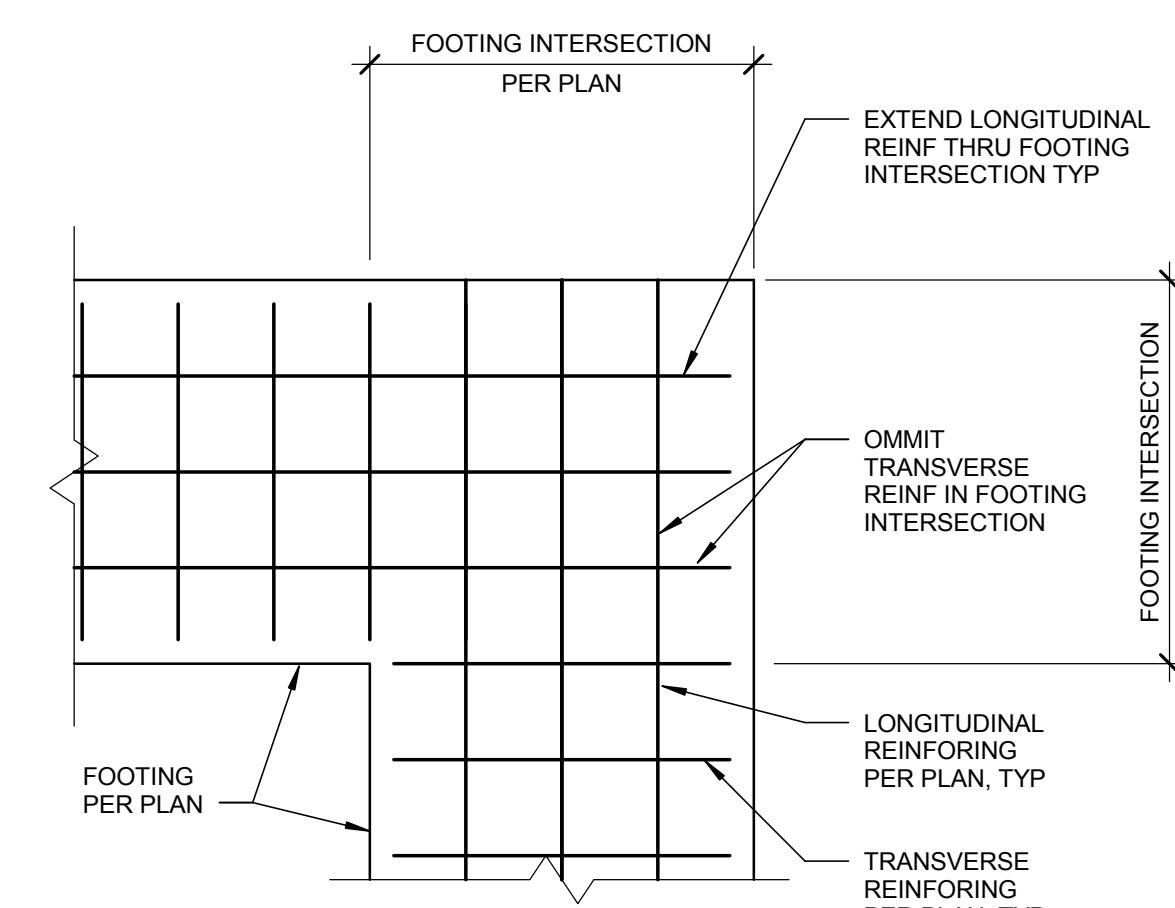
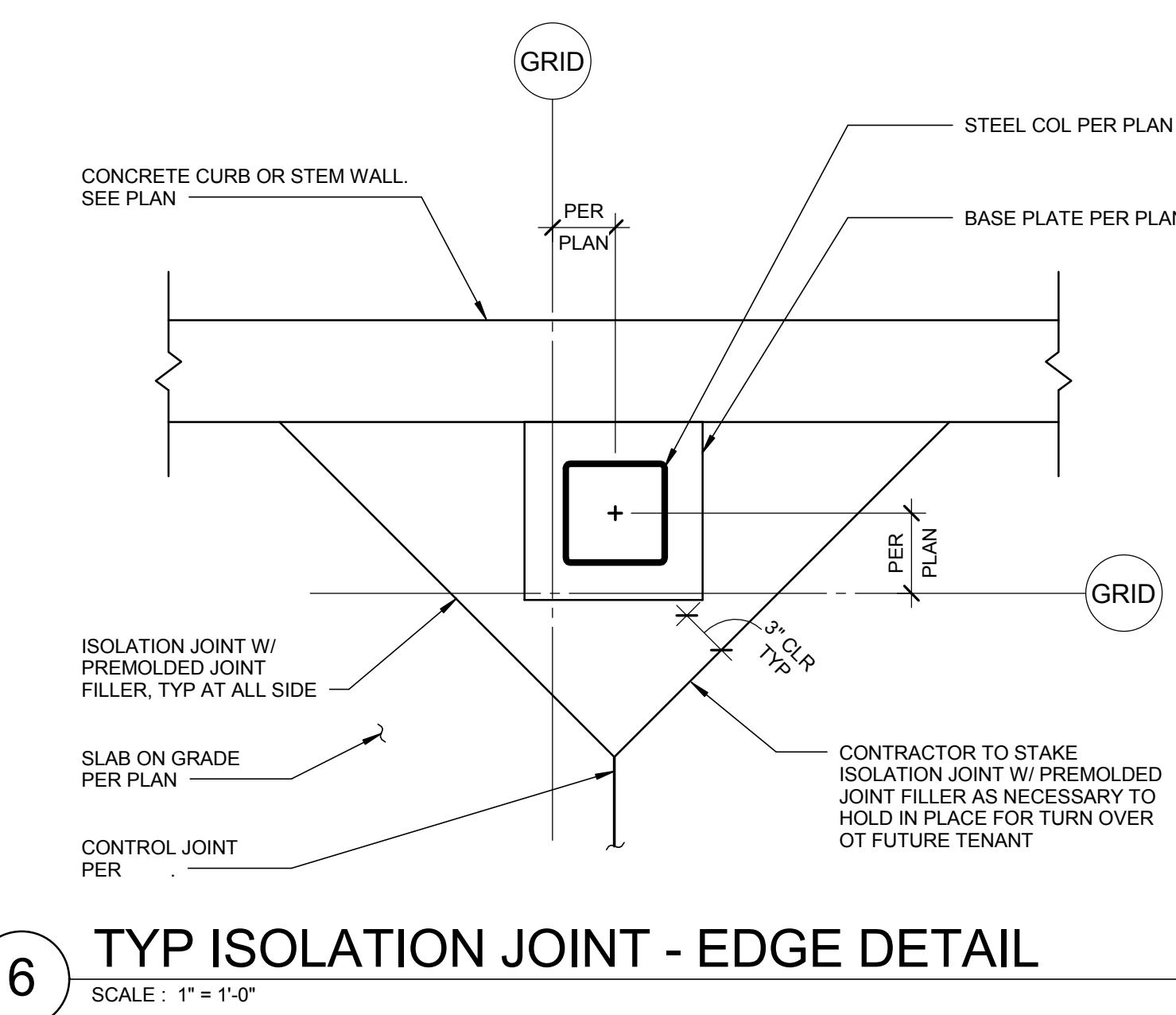
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|-------------------|---------------------|
| PROJECT NUMBER    | 114747.2            |
| PROJECT MANAGER   | R. TeBeau           |
| PROJECT ARCHITECT | R. TeBeau           |
| DESIGN            | B. Harris/R. TeBeau |

DRAWN BY: Author

SHEET NAME:

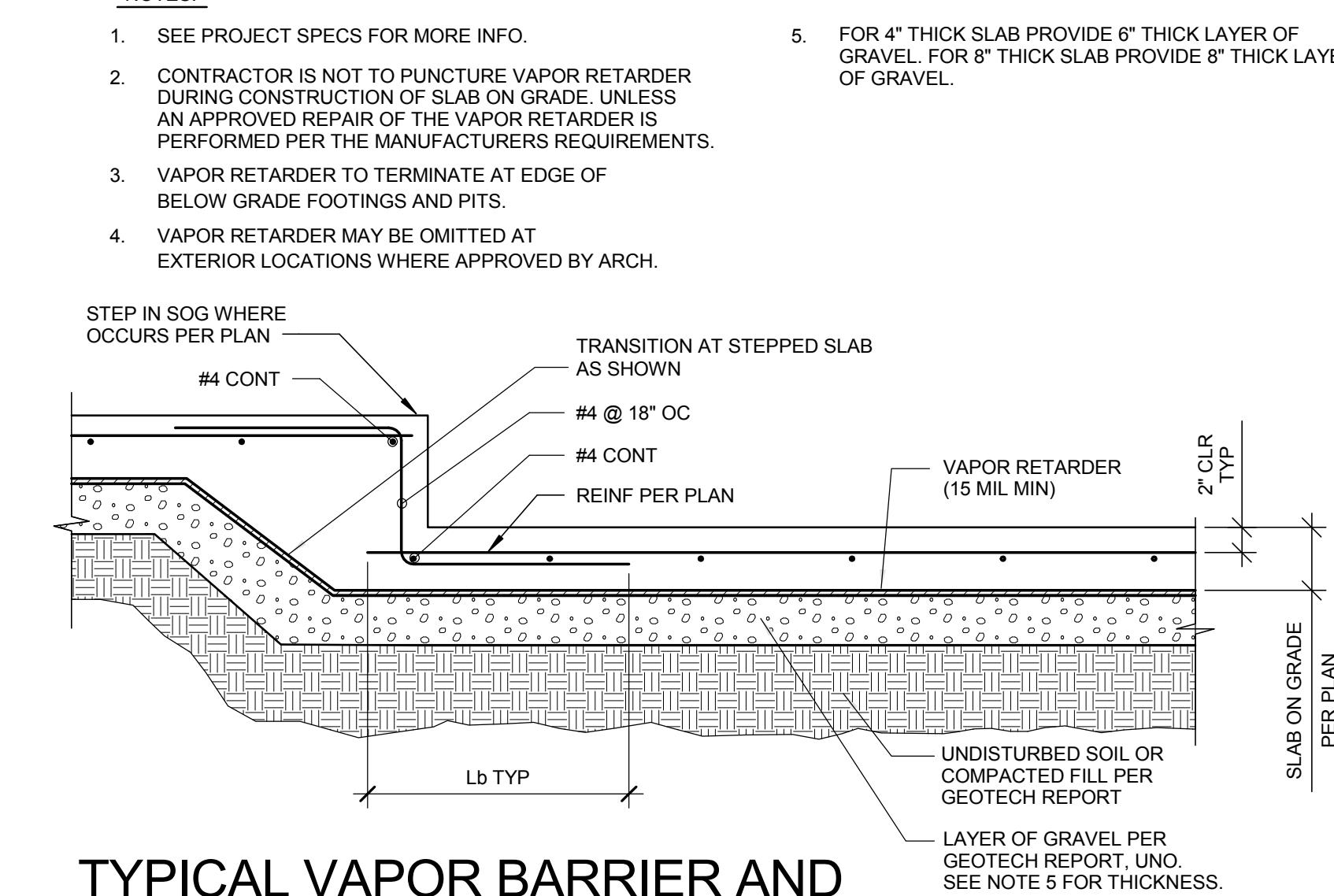
**TYPICAL CONCRETE DETAILS**

SHEET NUMBER:

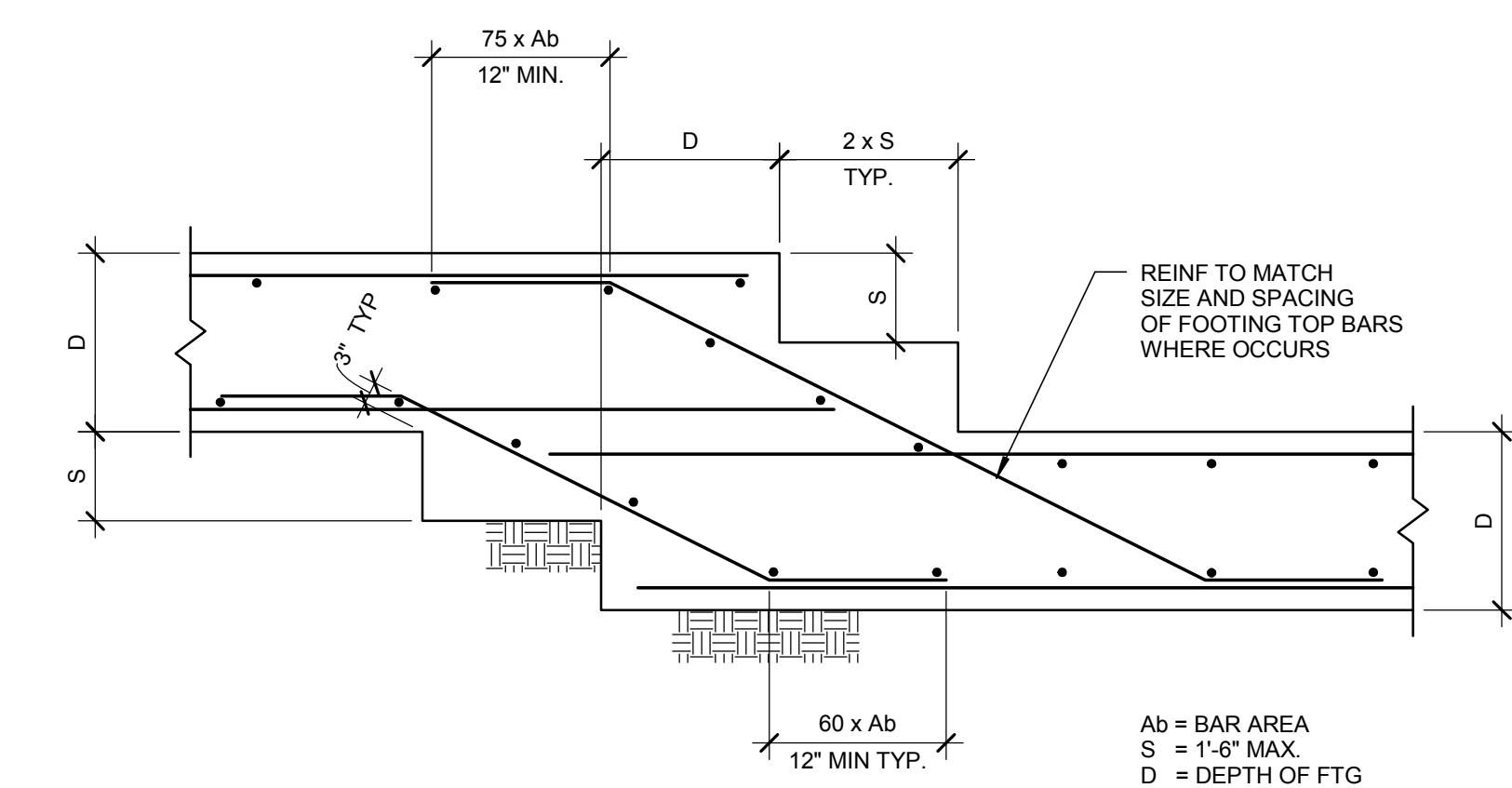
**S503**

**5 ELEVATOR PIT DETAIL**

SCALE: 1" = 1'-0"

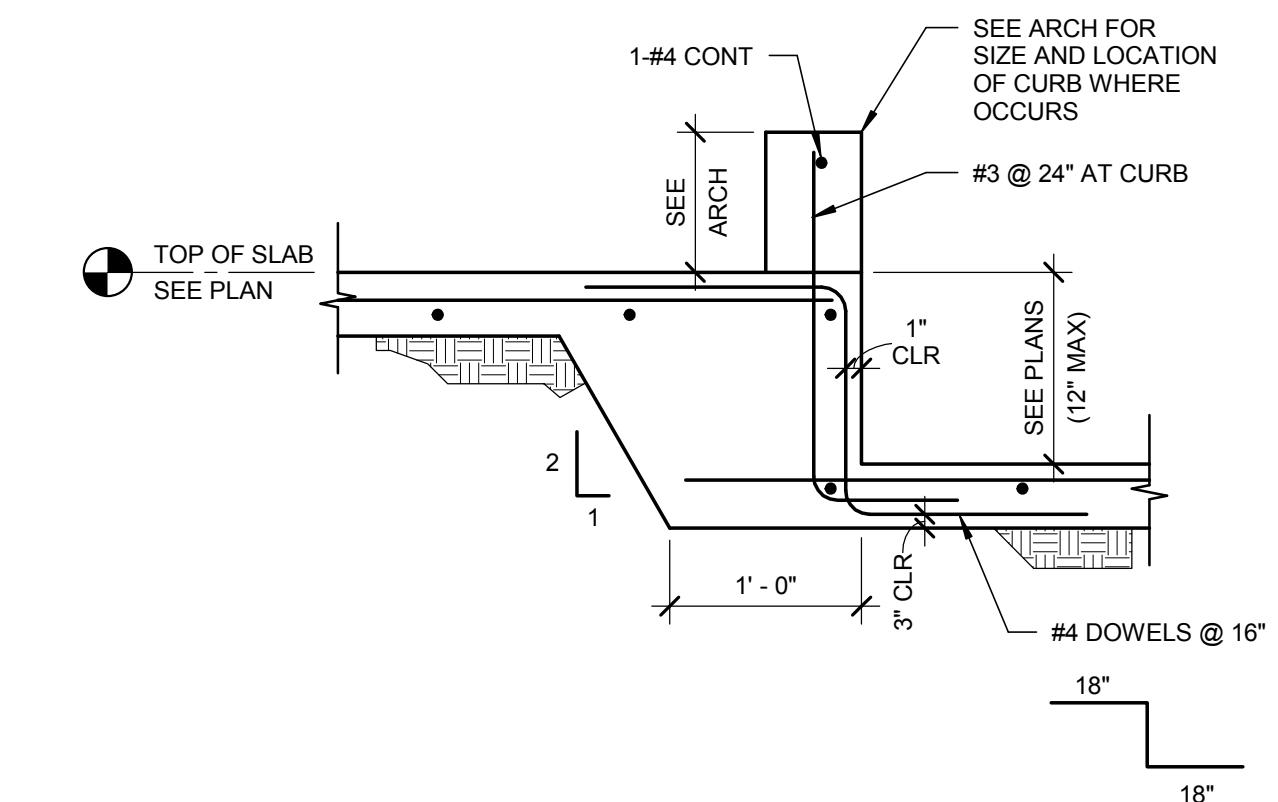


**1 TYPICAL VAPOR BARRIER AND STEP AT SOG DETAIL**



**2 STEPPED FOOTING DETAIL**

SCALE: 1" = 1'-0"



**3 STEP IN SLAB ON GRADE**

SCALE: 1" = 1'-0"

ARCHITECT: \_\_\_\_\_

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CONSULTANT: \_\_\_\_\_

kpff  
412 E. Parkcenter Blvd., Suite 204  
Boise, ID 83706  
O: 208.336.6985  
[www.kpff.com](http://www.kpff.com)

PROJECT INFORMATION:  
  
  
BOISE CITY OF TREES  
CITY OF TREES  
BOISE FIRE  
FIRE DEPARTMENT  
DEDICATION  
City of Boise Fire Station #8  
3575 W. Overland Rd. Boise, ID 83705

REVISIONS:  
MARK DATE DESCRIPTION

|                         |                     |
|-------------------------|---------------------|
| PROJECT PHASE           | 75% CD              |
| PROJECT NUMBER          | 114747.2            |
| PROJECT MANAGER         | R. TeBeau           |
| PROJECT ARCHITECT       | R. TeBeau           |
| DESIGN                  | B. Harris/R. TeBeau |
| DRAWN BY                | Author              |
| SHEET NAME:             |                     |
| TYPICAL MASONRY DETAILS |                     |
| SHEET NUMBER:           |                     |
| <b>S601</b>             |                     |

**5 CMU DEEP BEAM**  
SCALE: 1" = 1'-0"

**6 CMU KNOCKOUT PANEL**  
SCALE: 1" = 1'-0"

**3 PILASTER DETAIL**  
SCALE: 1" = 1'-0"

**4 TYPICAL CMU CONTROL JOINTS**  
SCALE: 1" = 1'-0"

**1 TYPICAL REINFORCING AT PARTIALLY GROUTED CMU WALLS**  
SCALE: 1" = 1'-0"

**2 CMU WALL INTERSECTION AND CORNER DETAIL**  
SCALE: 1" = 1'-0"

**3 PILASTER DETAIL**  
SCALE: 1" = 1'-0"

**4 TYPICAL REINFORCING AT PARTIALLY GROUTED CMU WALLS**  
SCALE: 1" = 1'-0"

**5 CMU DEEP BEAM**  
SCALE: 1" = 1'-0"

**6 CMU KNOCKOUT PANEL**  
SCALE: 1" = 1'-0"

**7 TYPICAL REINFORCING AT PARTIALLY GROUTED CMU WALLS**  
SCALE: 1" = 1'-0"

**8 CMU DEEP BEAM**  
SCALE: 1" = 1'-0"

**9 CMU KNOCKOUT PANEL**  
SCALE: 1" = 1'-0"

**10 TYPICAL REINFORCING AT PARTIALLY GROUTED CMU WALLS**  
SCALE: 1" = 1'-0"

**11 CMU DEEP BEAM**  
SCALE: 1" = 1'-0"

**12 CMU KNOCKOUT PANEL**  
SCALE: 1" = 1'-0"

**13 TYPICAL REINFORCING AT PARTIALLY GROUTED CMU WALLS**  
SCALE: 1" = 1'-0"

**14 CMU DEEP BEAM**  
SCALE: 1" = 1'-0"

**15 CMU KNOCKOUT PANEL**  
SCALE: 1" = 1'-0"

**16 TYPICAL REINFORCING AT PARTIALLY GROUTED CMU WALLS**  
SCALE: 1" = 1'-0"

**17 CMU DEEP BEAM**  
SCALE: 1" = 1'-0"

**18 CMU KNOCKOUT PANEL**  
SCALE: 1" = 1'-0"

**19 TYPICAL REINFORCING AT PARTIALLY GROUTED CMU WALLS**  
SCALE: 1" = 1'-0"

**20 CMU DEEP BEAM**  
SCALE: 1" = 1'-0"

**21 CMU KNOCKOUT PANEL**  
SCALE: 1" = 1'-0"

**22 TYPICAL REINFORCING AT PARTIALLY GROUTED CMU WALLS**  
SCALE: 1" = 1'-0"

**23 CMU DEEP BEAM**  
SCALE: 1" = 1'-0"

**24 CMU KNOCKOUT PANEL**  
SCALE: 1" = 1'-0"

**25 TYPICAL REINFORCING AT PARTIALLY GROUTED CMU WALLS**  
SCALE: 1" = 1'-0"

**26 CMU DEEP BEAM**  
SCALE: 1" = 1'-0"

**27 CMU KNOCKOUT PANEL**  
SCALE: 1" = 1'-0"

**28 TYPICAL REINFORCING AT PARTIALLY GROUTED CMU WALLS**  
SCALE: 1" = 1'-0"

**29 CMU DEEP BEAM**  
SCALE: 1" = 1'-0"

**30 CMU KNOCKOUT PANEL**  
SCALE: 1" = 1'-0"

**31 TYPICAL REINFORCING AT PARTIALLY GROUTED CMU WALLS**  
SCALE: 1" = 1'-0"

**32 CMU DEEP BEAM**  
SCALE: 1" = 1'-0"

**33 CMU KNOCKOUT PANEL**  
SCALE: 1" = 1'-0"

**34 TYPICAL REINFORCING AT PARTIALLY GROUTED CMU WALLS**  
SCALE: 1" = 1'-0"

**35 CMU DEEP BEAM**  
SCALE: 1" = 1'-0"

<img alt="Diagram showing a cross-section of a CMU deep

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CONSULTANT:

PROJECT INFORMATION:



**City of Boise Fire Station #8**  
3575 W. Overland Rd. Boise, ID 83705

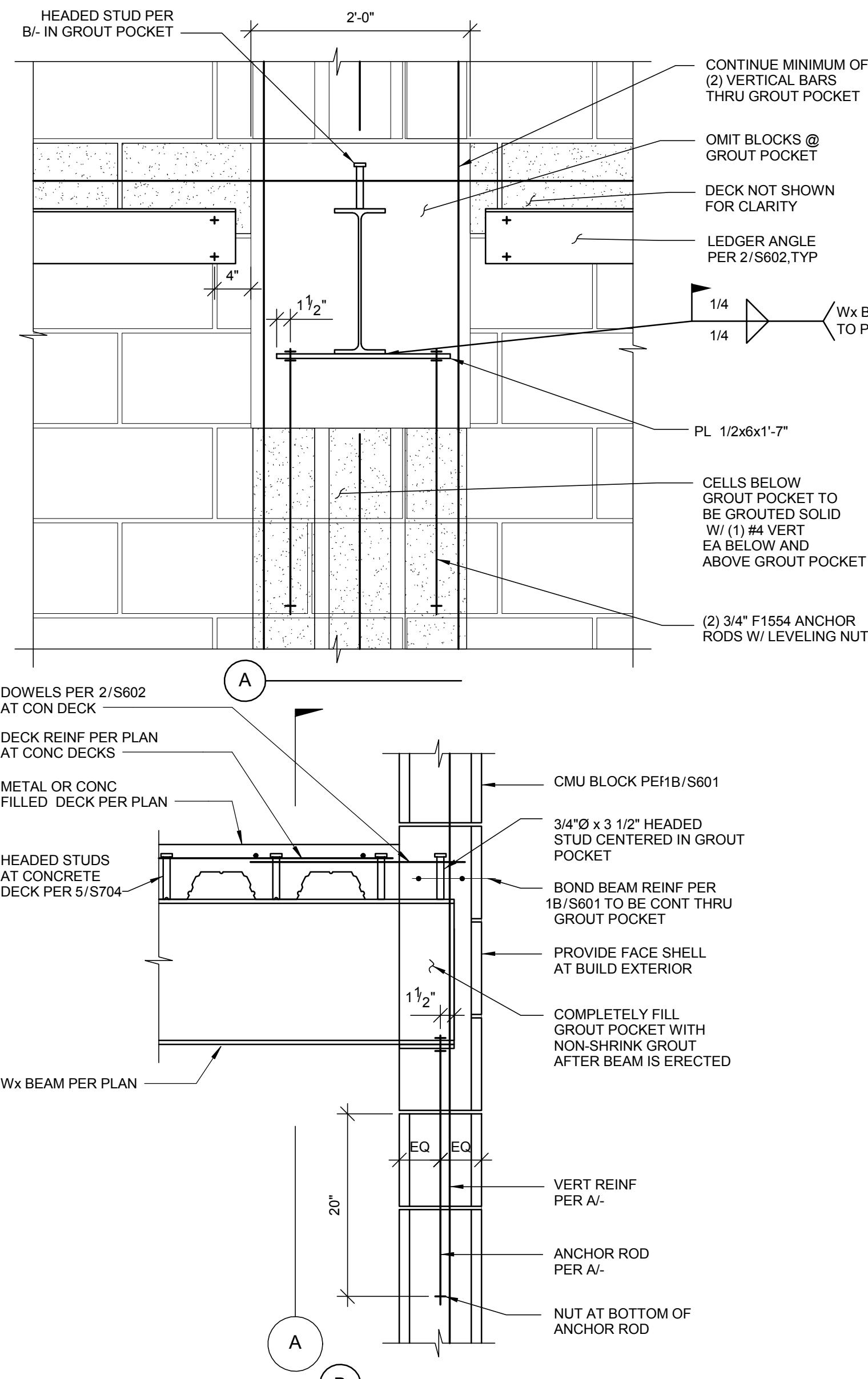
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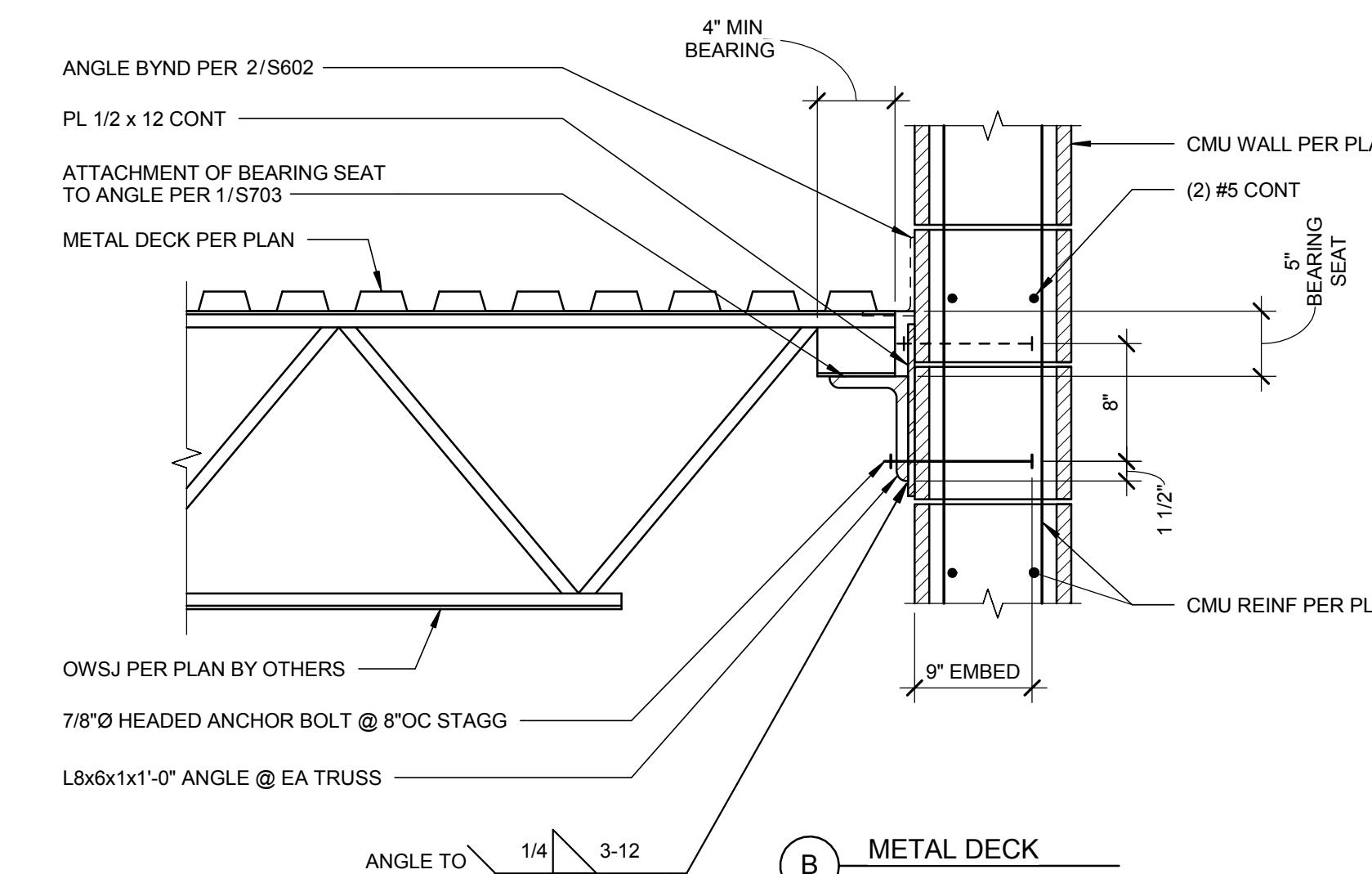
SHEET NAME:

**TYPICAL MASONRY DETAILS**

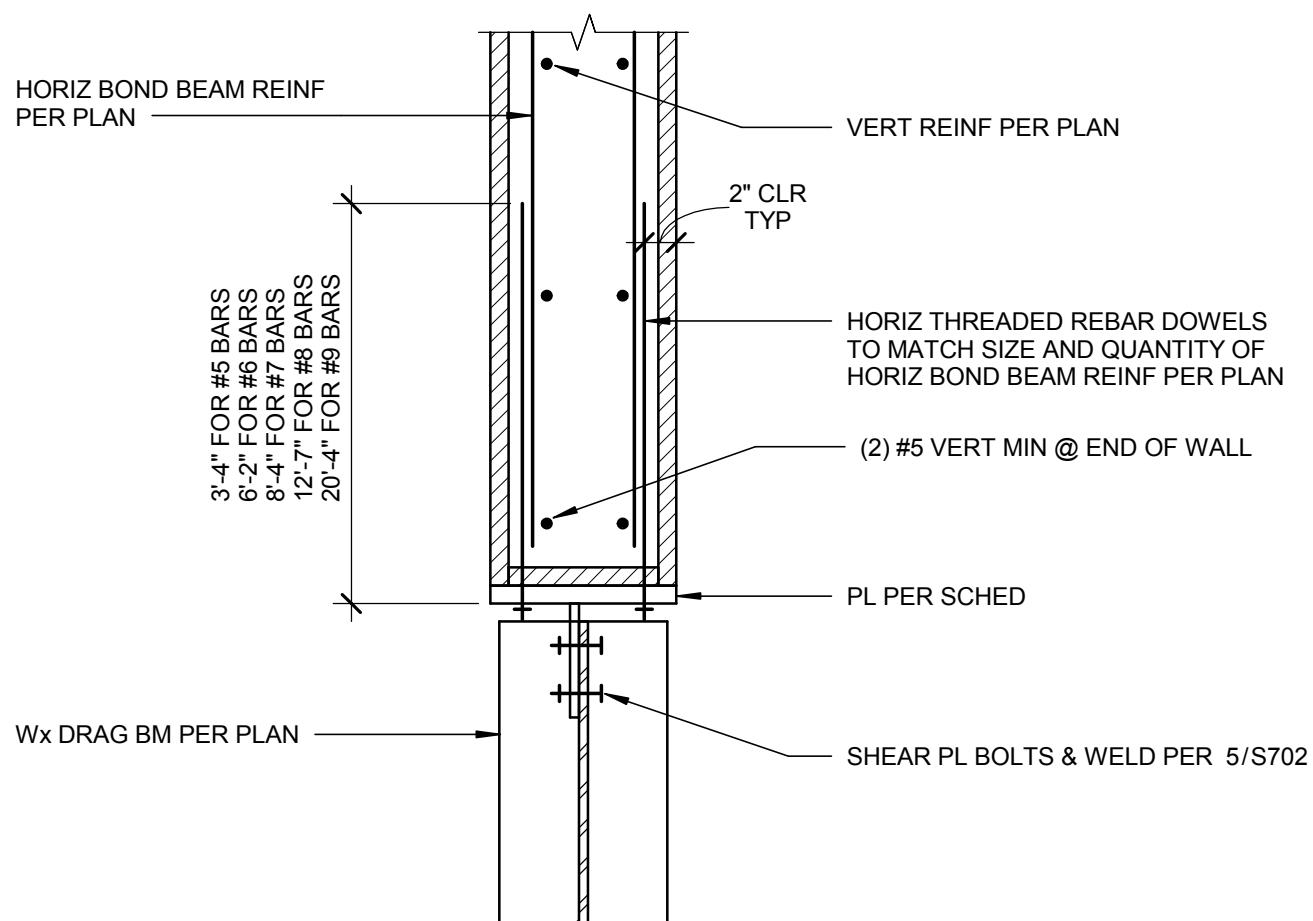
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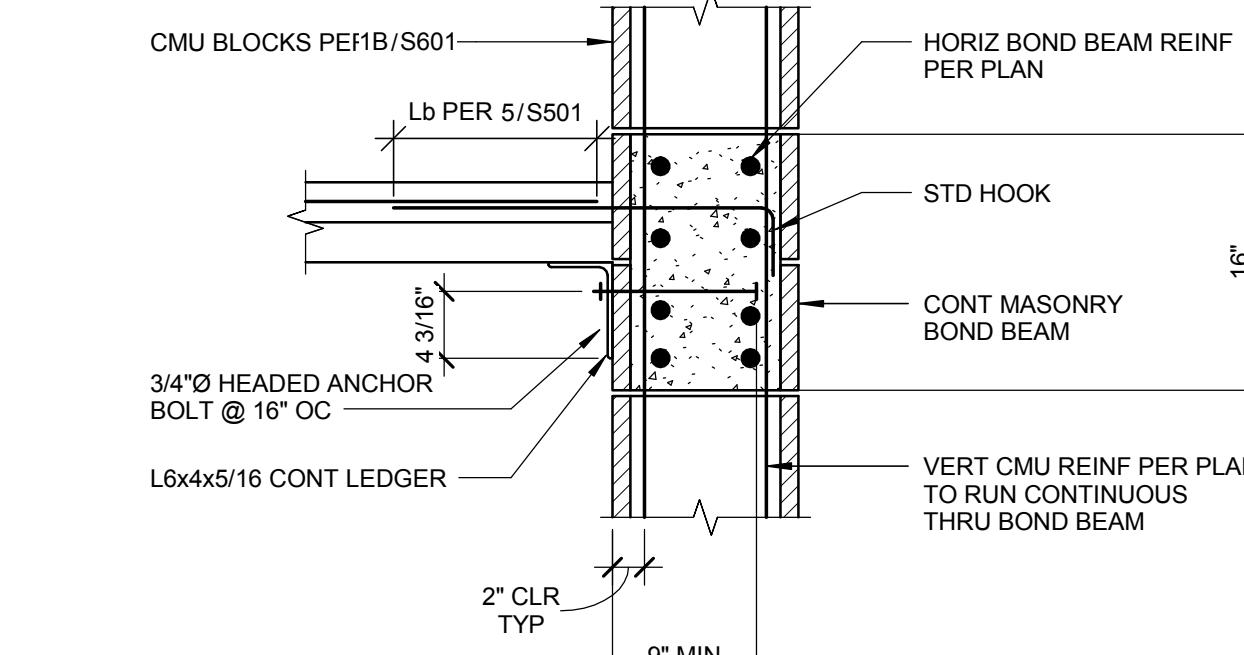
**5 Wx BM TO CMU WALL GROUT POCKET DETAIL**  
SCALE : 1" = 1'-0"



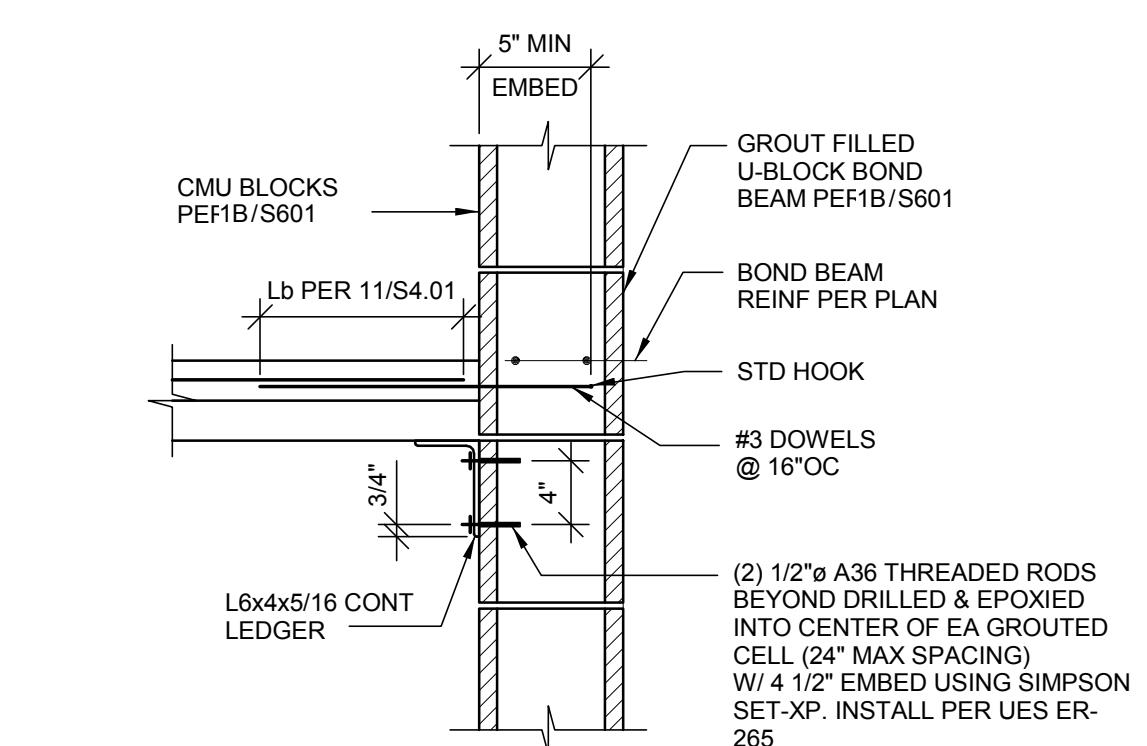
**3 OWSJ TO CMU WALL CONNECTION**  
SCALE : 1" = 1'-0"



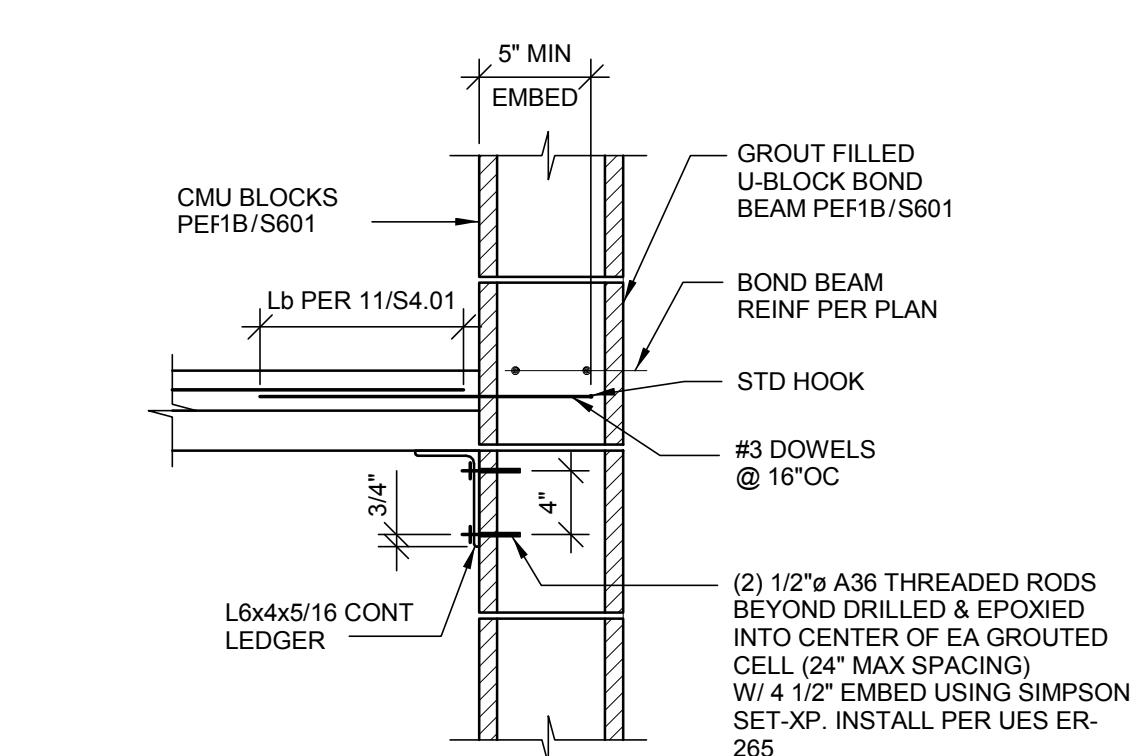
**4 DRAG CONNECTION TO CMU WALL**  
SCALE : 1" = 1'-0"



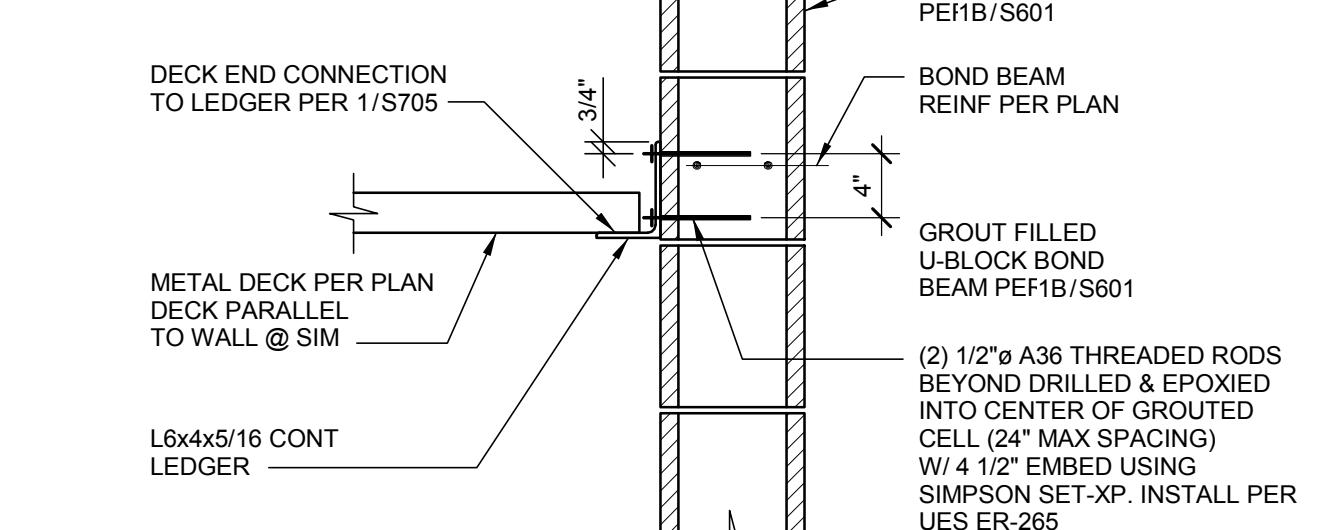
**1 CONCRETE BOND BEAM**  
SCALE : 1" = 1'-0"



**2 DECK TO CMU WALL**  
SCALE : 1" = 1'-0"



**A CONCRETE DECK**



**D**  
SHEET NUMBER:  
**S602**



COLE ARCHITECTS

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PROJECT INFORMATION:

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3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
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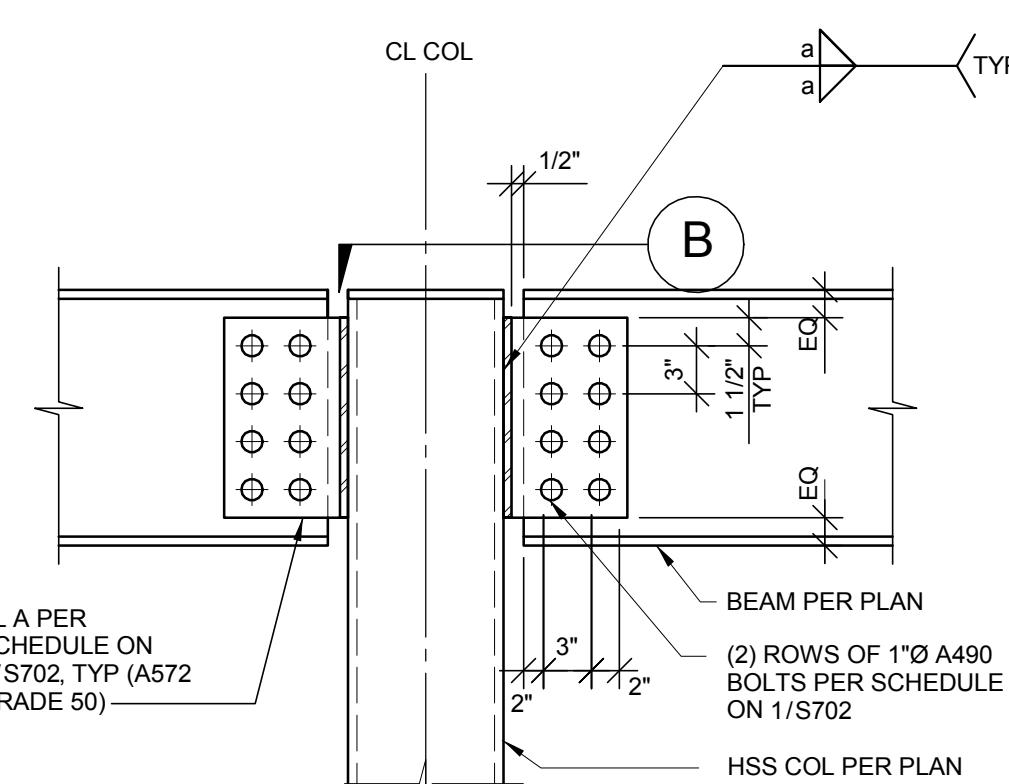
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|-------------------|---------------------|
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| PROJECT ARCHITECT | R. TeBeau           |
| DESIGN            | B. Harris/R. TeBeau |
| DRAWN BY          | Author              |
| SHEET NAME:       |                     |

TYPICAL STEEL DETAILS

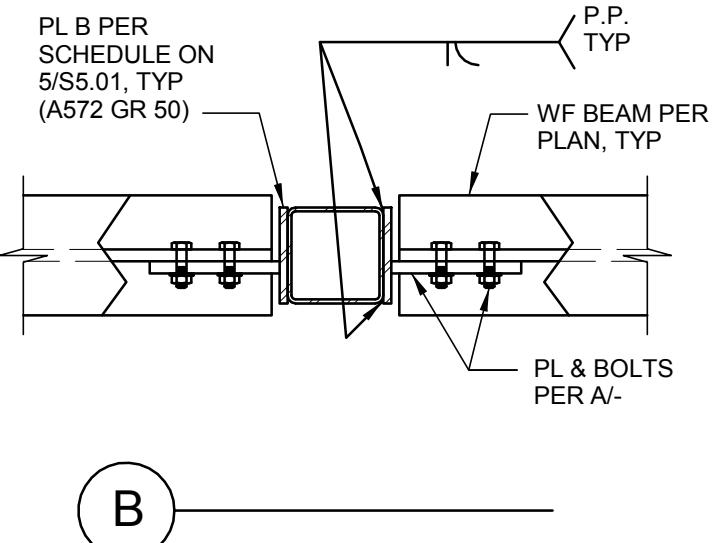
SHEET NUMBER:

S702

A



B



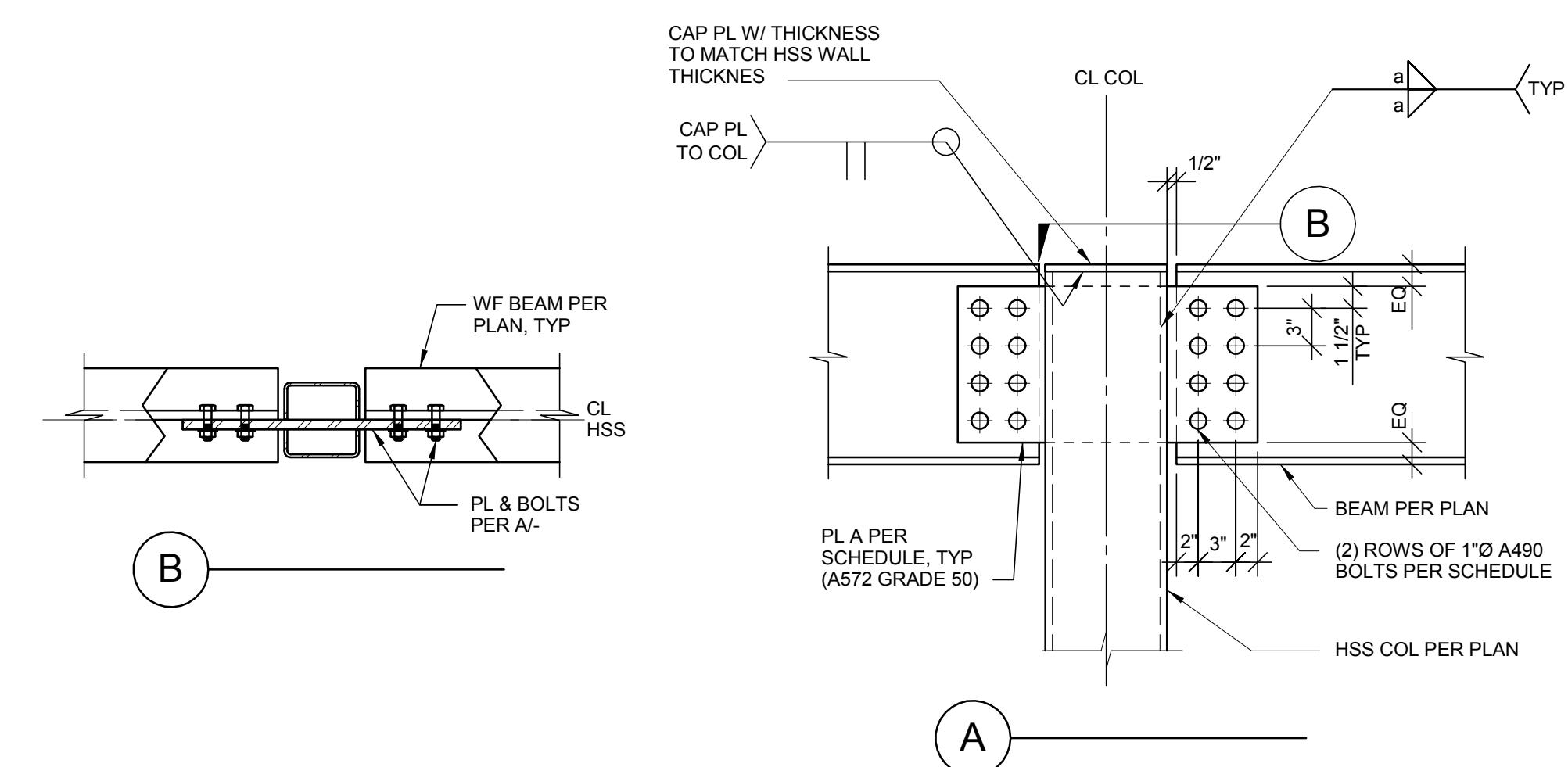
C

## 5 ALTERNATE DRAG CONNECTION DETAIL

SCALE: 1" = 1'-0"

D

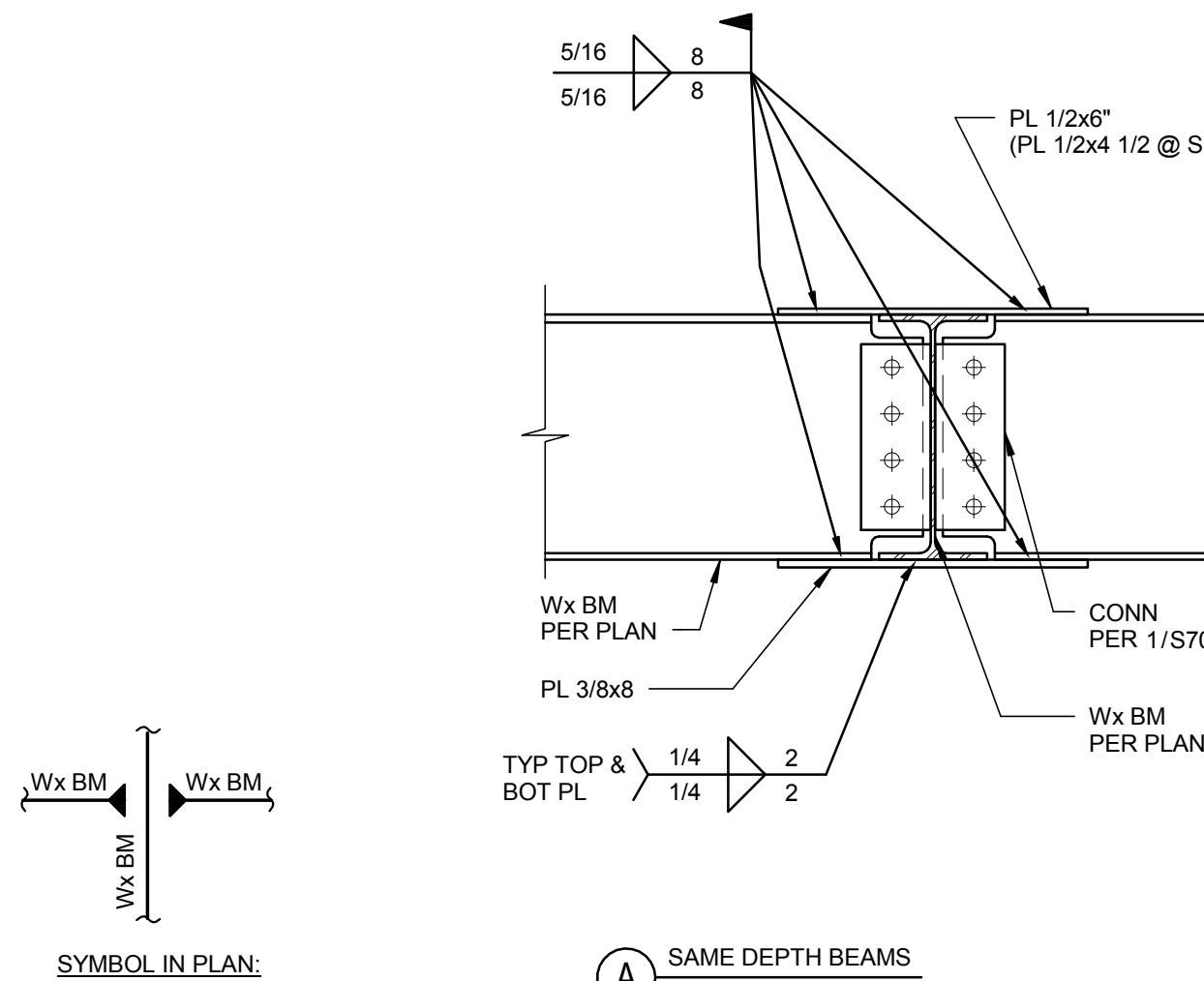
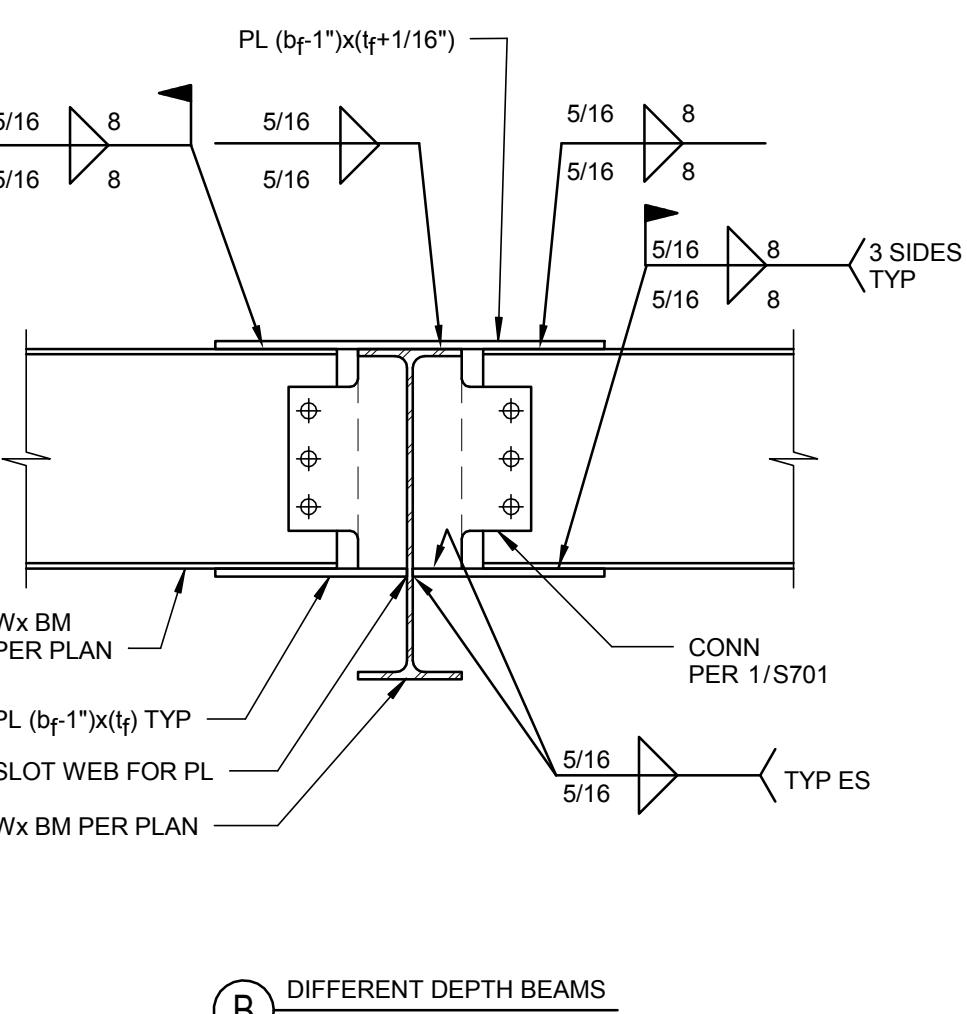
| BOLTED DRAG CONNECTION SCHEDULE |                    |                     |                     |               |
|---------------------------------|--------------------|---------------------|---------------------|---------------|
| BEAM SIZE                       | TOTAL NO. OF BOLTS | PLATE "A" THICKNESS | PLATE "B" THICKNESS | WELD "a" SIZE |
| W8                              | (4)                | 1/2"                | 3/4"                | 5/16"         |
| W12                             | (6)                | 1/2"                | 3/4"                | 5/16"         |
| W14                             | (6)                | 1/2"                | 3/4"                | 5/16"         |
| W16                             | (8)                | 1/2"                | 1"                  | 5/16"         |
| W18                             | (8)                | 1/2"                | 1"                  | 5/16"         |
| W21                             | (10)               | 5/8"                | 1"                  | 1/2"          |
| W24                             | (12)               | 5/8"                | 1"                  | 1/2"          |
| W27                             | (14)               | 5/8"                | 1"                  | 1/2"          |
| W30                             | (16)               | 3/4"                | 1"                  | 1/2"          |
| W33                             | (18)               | 3/4"                | 1"                  | 1/2"          |



- NOTES:
1. USE WHERE INDICATED BY ON PLAN.
  2. SEE DETAIL 5/S702 FOR ALTERNATE DRAG CONN DETAIL.
  3. PLATE "B" IS SHOWN IN DETAIL 5/S702.
  4. SEE 3/S702 FOR DRAG CONNECTIONS THROUGH GIRDERS.
  5. SEE 4/S702 FOR DRAG CONNECTIONS THROUGH OWSJ.

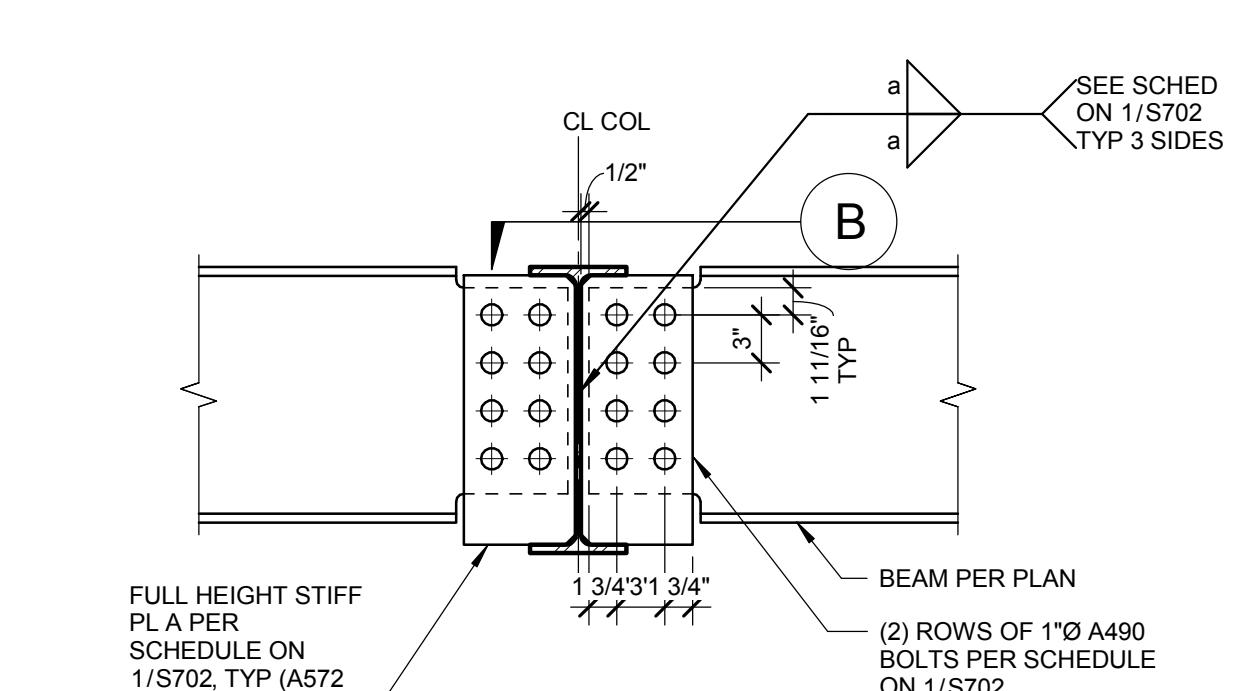
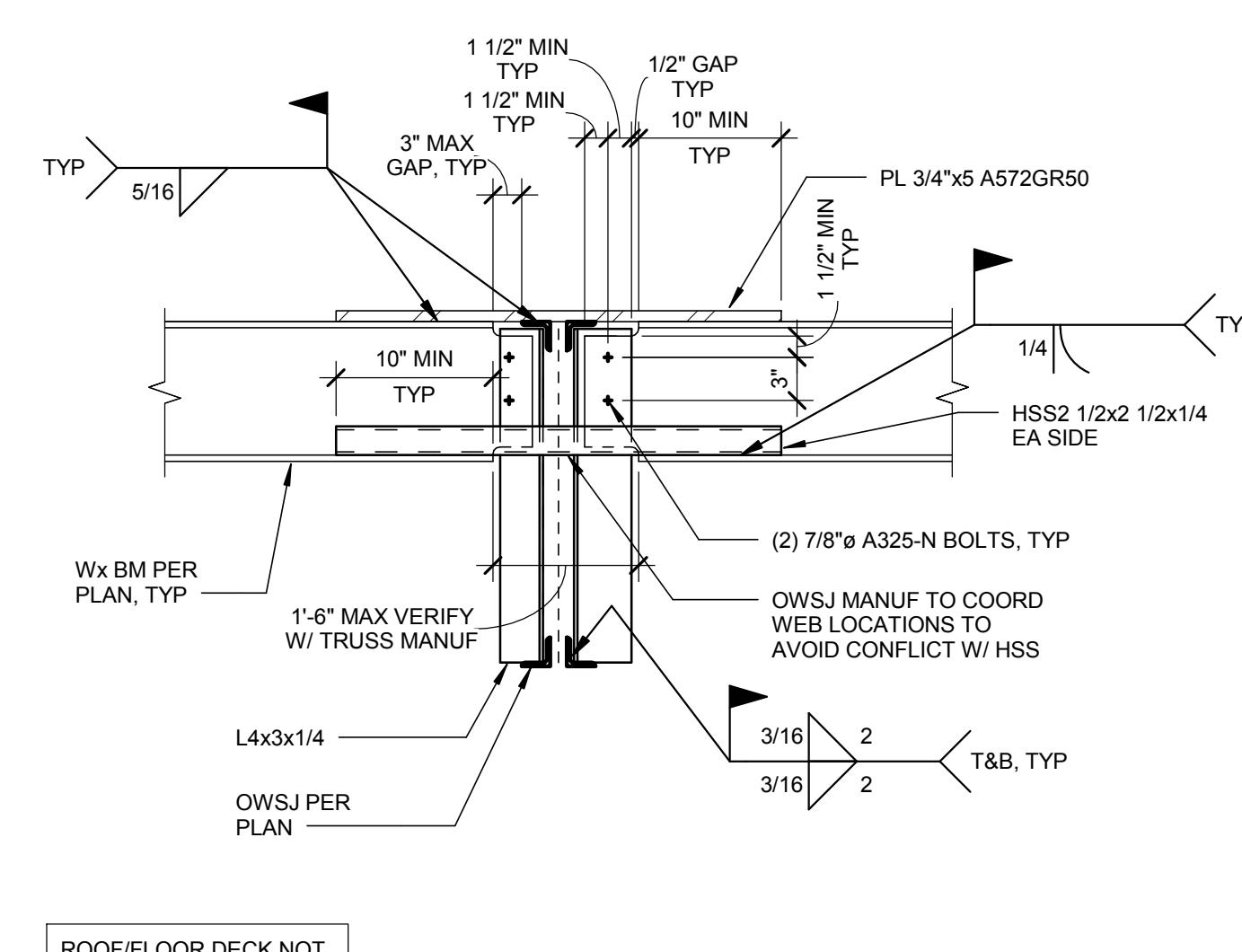
## 1 TYPICAL DRAG CONNECTION

SCALE: 1" = 1'-0"



## 2 BEAM TO BEAM MOMENT CONNECTION

SCALE: 1" = 1'-0"



## 4 WF DRAG CONN THRU OWSJ

SCALE: 1" = 1'-0"

## 3 DRAG CONN THRU GIRDER

SCALE: 1" = 1'-0"

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CONSULTANT:

**kpf**  
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Boise, ID 83706  
O: 208.336.6985  
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PROJECT INFORMATION:



**City of Boise Fire Station #8**  
3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

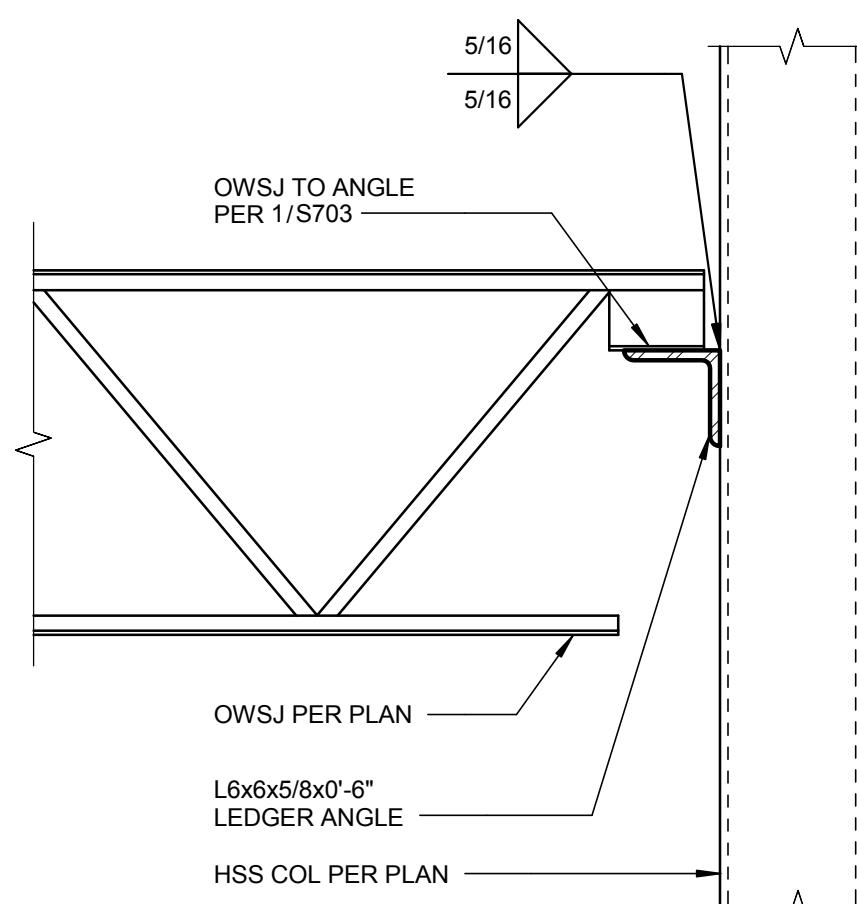
| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

|                   |                     |
|-------------------|---------------------|
| PROJECT PHASE     | 75% CD              |
| PROJECT NUMBER    | 114747.2            |
| PROJECT MANAGER   | R. TeBeau           |
| PROJECT ARCHITECT | R. TeBeau           |
| DESIGN            | B. Harris/R. TeBeau |
| DRAWN BY          | Author              |
| SHEET NAME:       |                     |

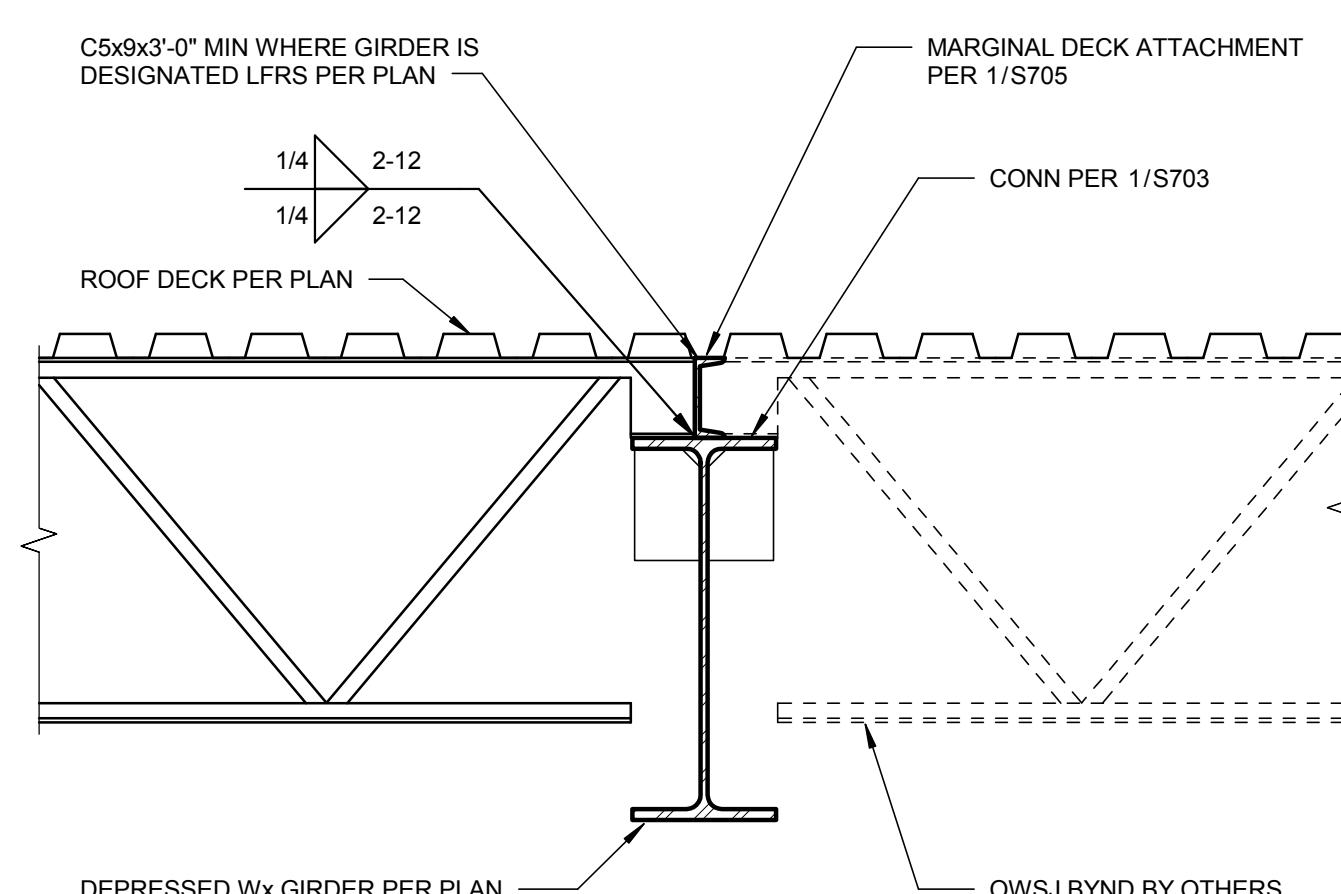
**TYPICAL STEEL DETAILS**

**S703**

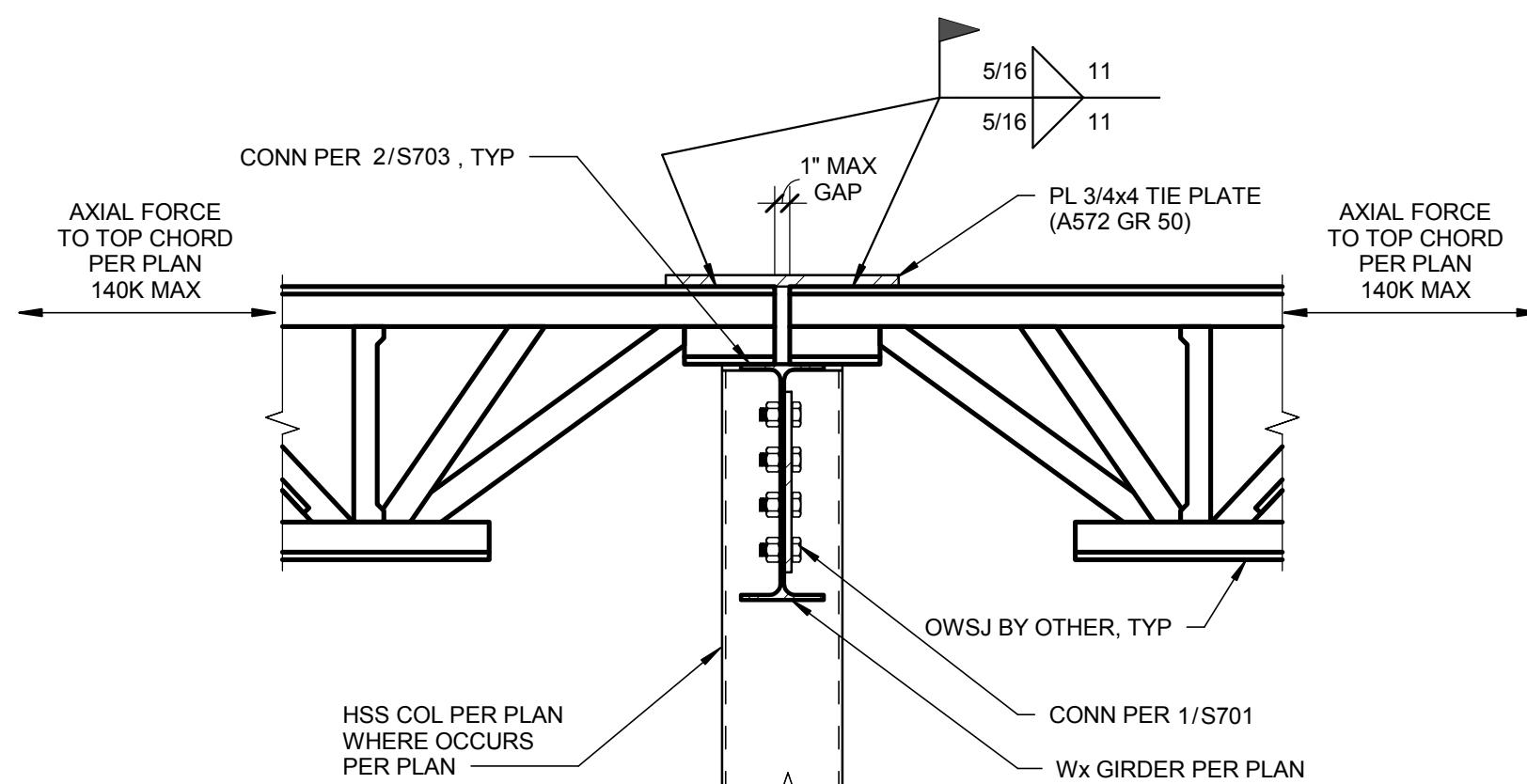
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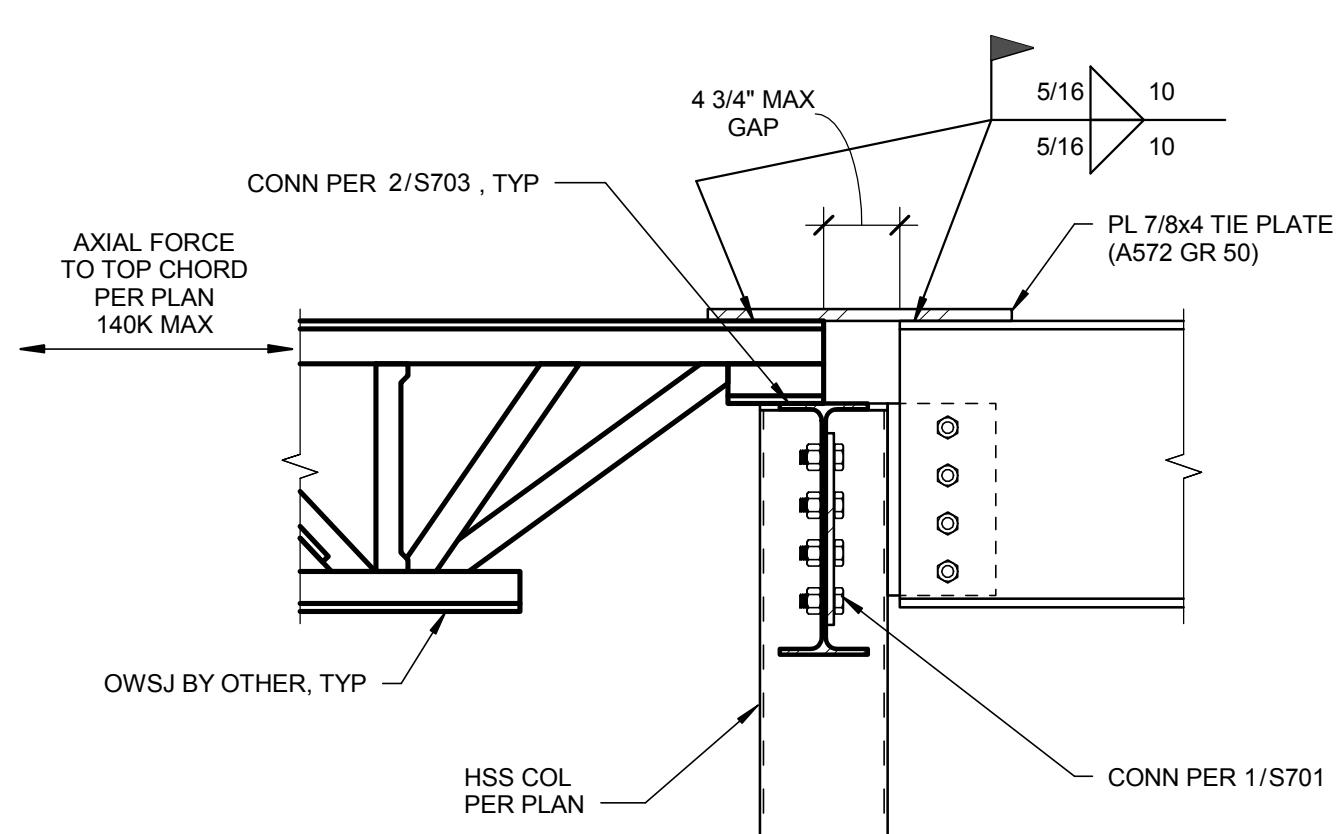
**7 OWSJ TO CONT COL CONN**  
SCALE : 1" = 1'-0"



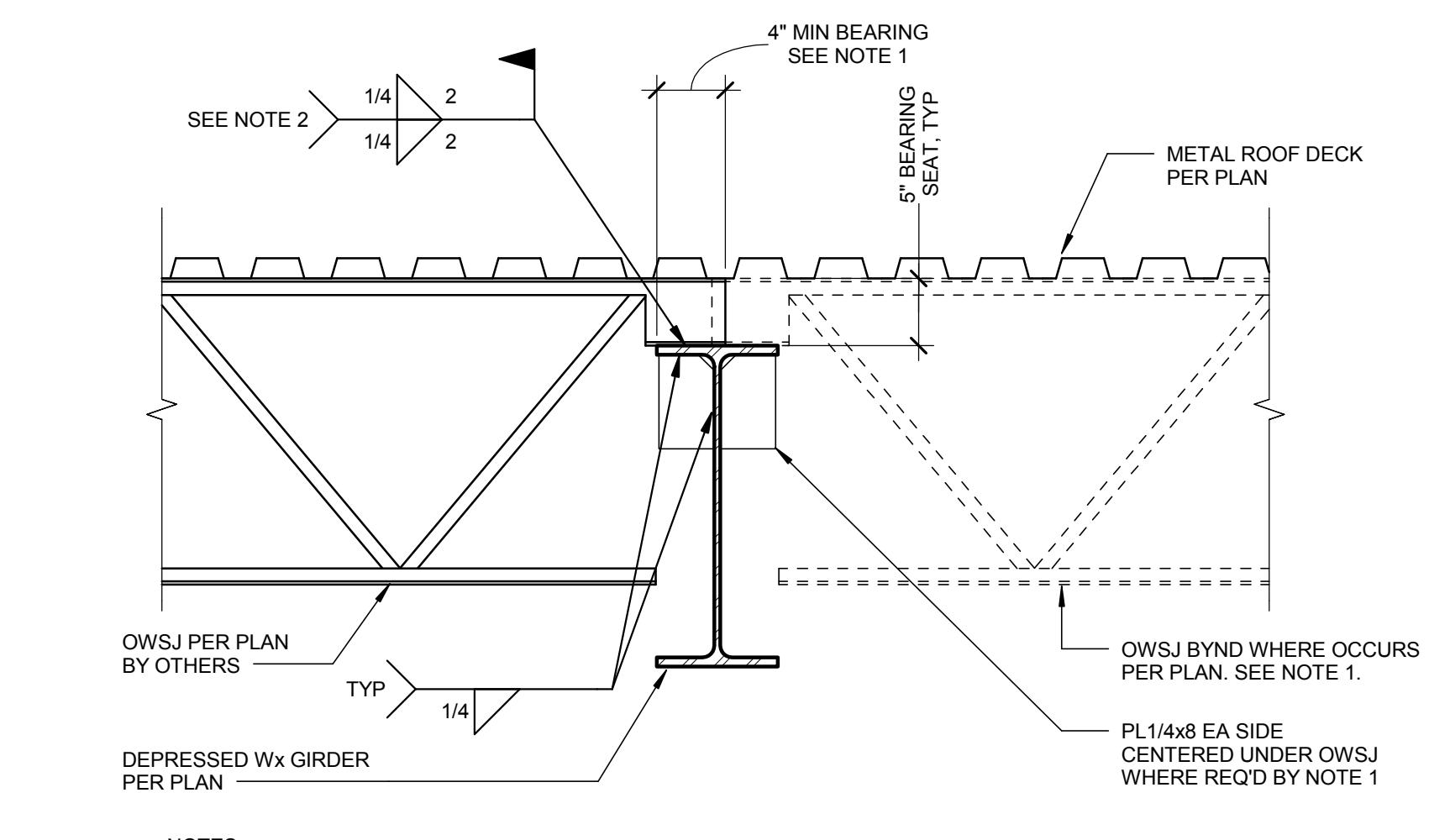
**4 CHANNEL AT DEPRESSED LFRS GIRDERS**  
SCALE : 1" = 1'-0"



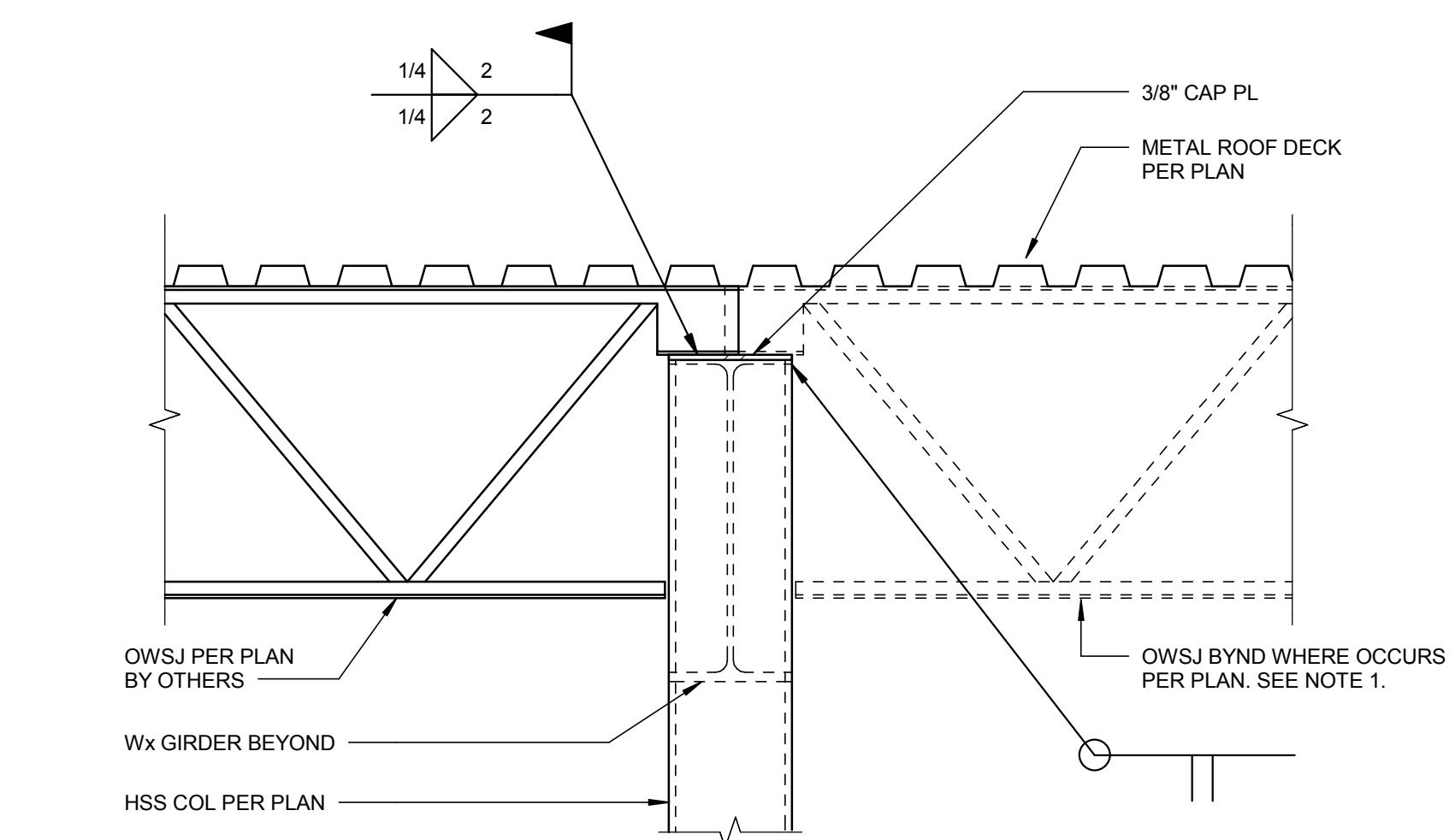
**5 CONN BTWN OWSJ COLLECTORS**  
SCALE : 1" = 1'-0"



**6 CONN BTWN OWSJ & Wx COLLECTOR**  
SCALE : 1" = 1'-0"



**1 TYPICAL JOIST TO GIRDER**  
SCALE : 1" = 1'-0"



**2 TYPICAL JOIST TO COLUMN**  
SCALE : 1" = 1'-0"

SHEET NUMBER:

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CONSULTANT:

kpff

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Boise, ID 83706  
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PROJECT INFORMATION:



**City of Boise Fire Station #8**  
3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
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|                   |                     |
|-------------------|---------------------|
| PROJECT PHASE     | 75% CD              |
| PROJECT NUMBER    | 114747.2            |
| PROJECT MANAGER   | R. TeBeau           |
| PROJECT ARCHITECT | R. TeBeau           |
| DESIGN            | B. Harris/R. TeBeau |
| DRAWN BY          | NLP                 |

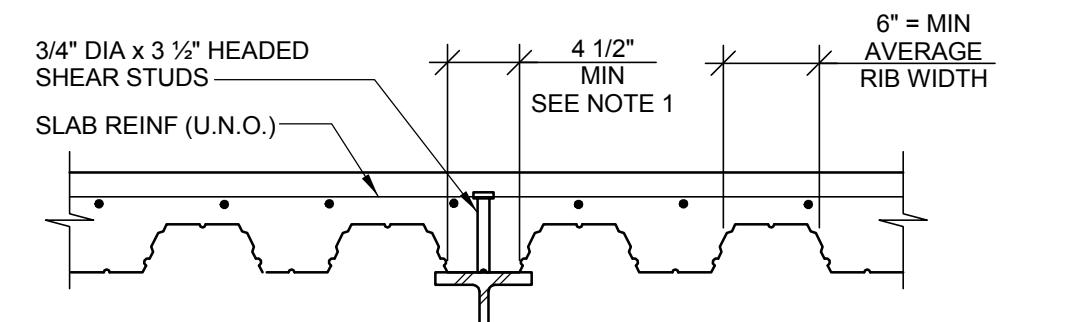
SHEET NAME:

**TYPICAL STEEL DETAILS**

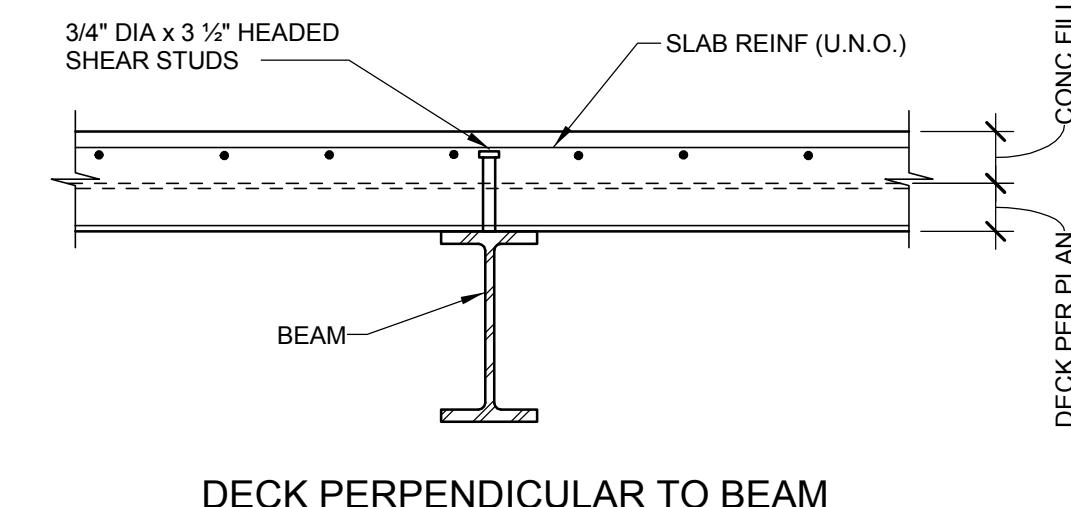
SHEET NUMBER:

**S704**

A



- NOTES:
1. DECK RIB VALLEY TO BE CENTERED OVER BEAM WHERE POSSIBLE OR DECK MUST BE SPLIT FULL LENGTH OF BEAM TO PROVIDE CONCRETE HAUNCH WITH MIN. WIDTH OF 4 1/2"
  2. AT DEPRESSIONS THAT OCCUR ALONG BEAM SPAN, SEE DETAIL 3/S701.
  3. STUD SPACING PER 4/S704.



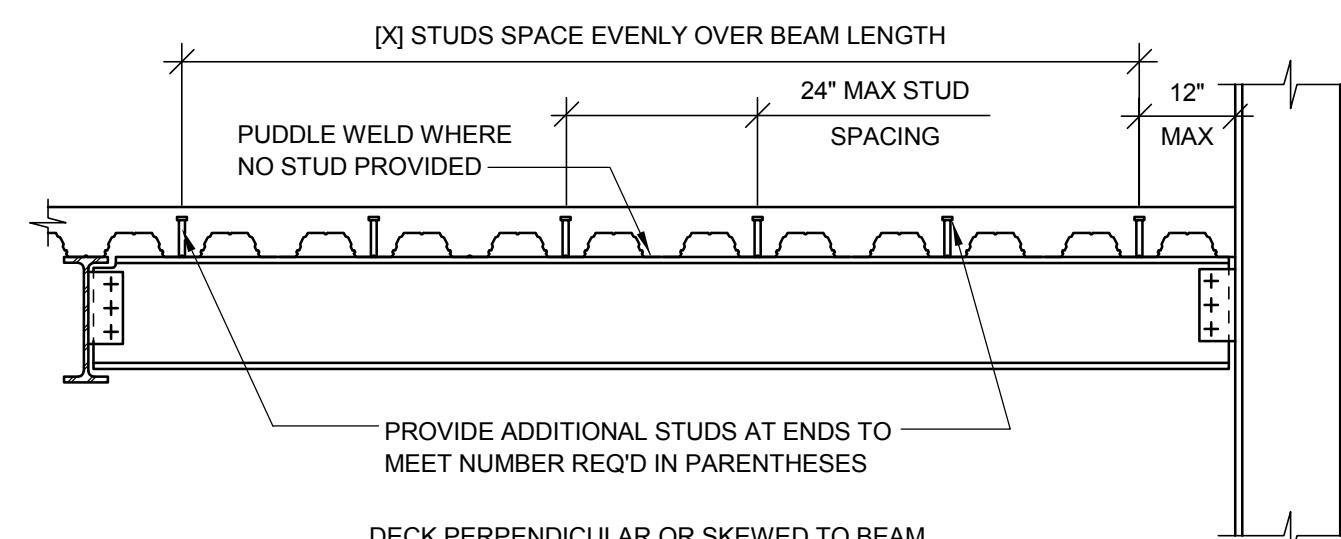
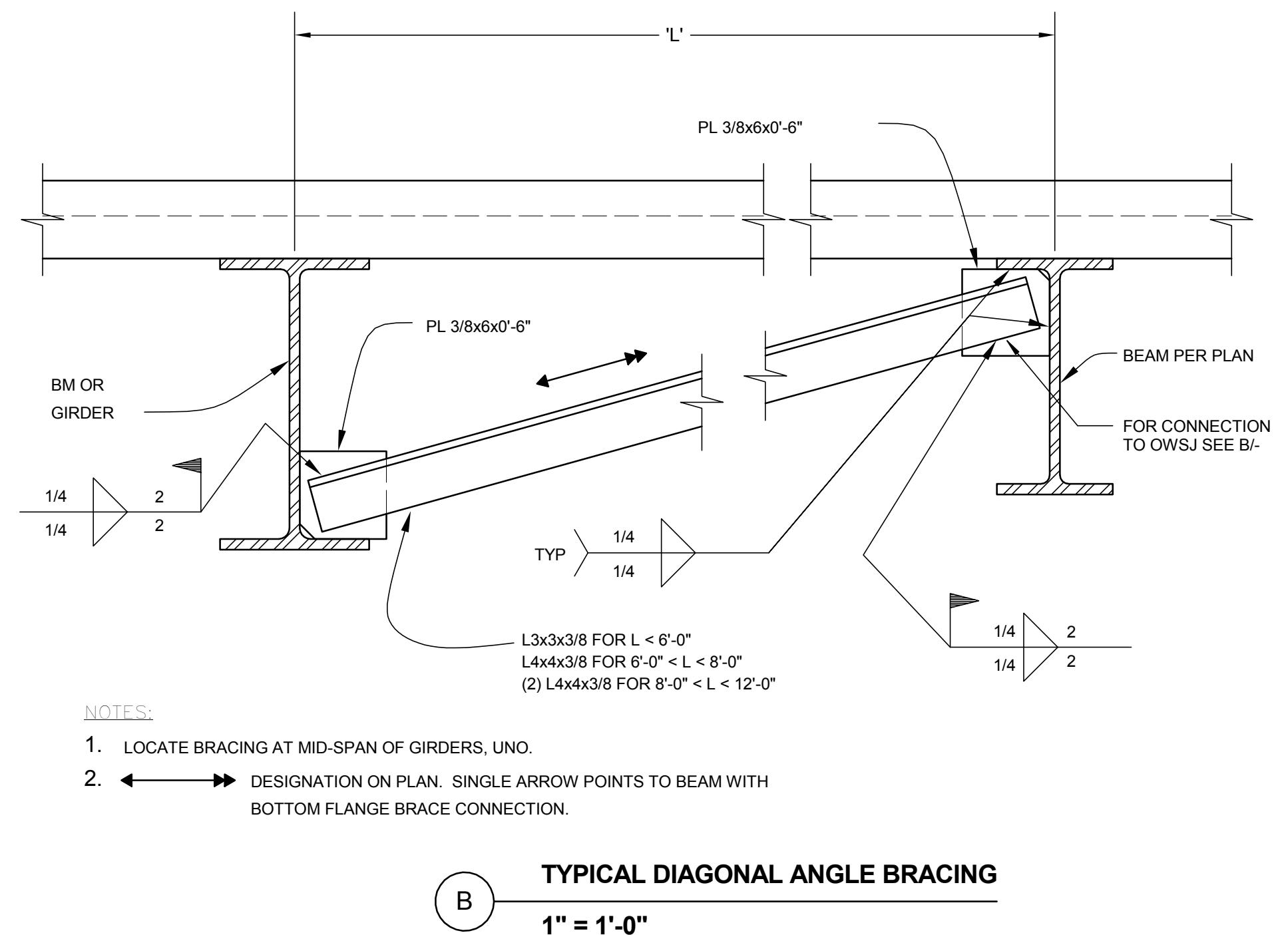
B

## 5 COMPOSITE BEAM TO COMPOSITE SLAB

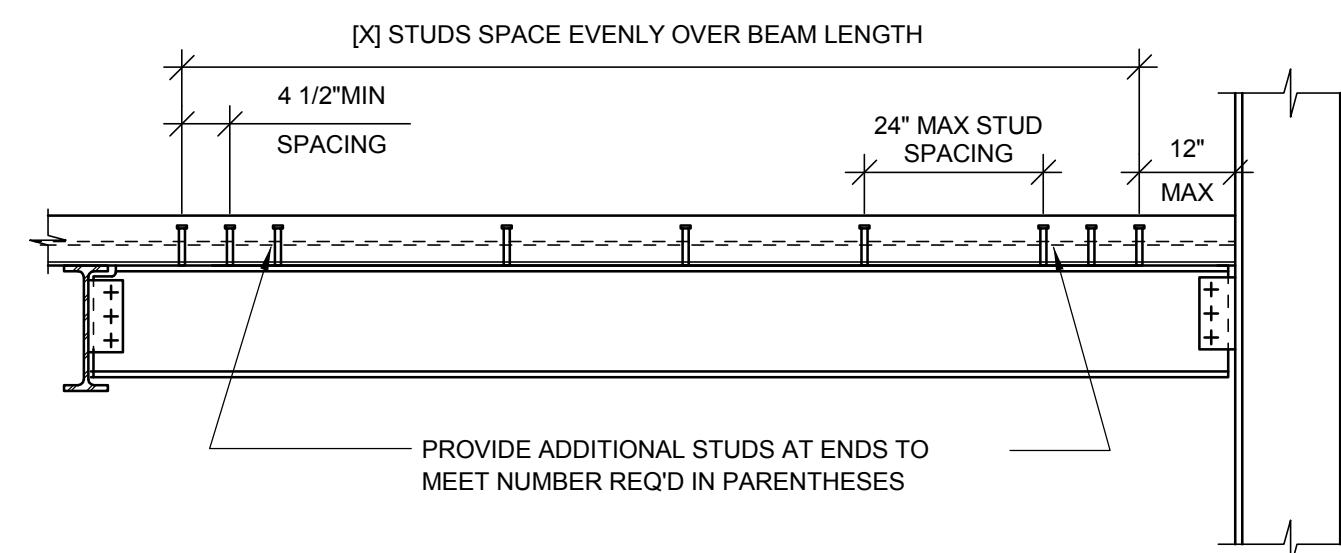
SCALE : 1" = 1'-0"

## 1 TYP DIAGONAL ANGLE BRACING

SCALE : 1" = 1'-0"



C



D

NOTES:

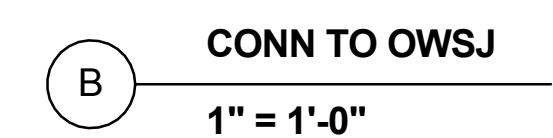
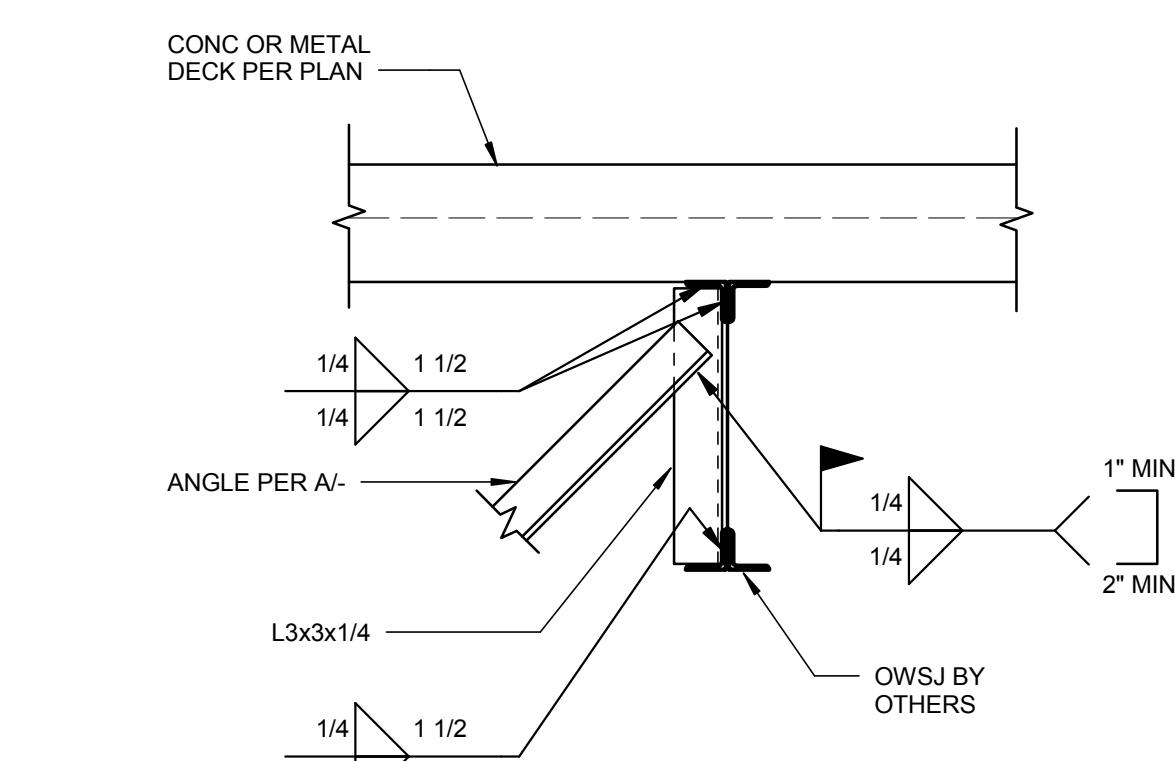
1. THE MINIMUM NUMBER OF STUDS REQUIRED IS SHOWN AS X ON FRAMING PLANS OR 24" O.C. WHERE STUDS ARE REQUIRED, ADDITIONAL STUDS MAY BE REQUIRED TO MEET THE ABOVE MAXIMUM SPACING REQUIREMENTS.
2. IF TWO STUDS ARE REQUIRED IN ONE FLUTE THE TRANSVERSE SPACING SHALL BE 3" MINIMUM.

## 4 COMPOSITE BEAM STUD SPACING

SCALE : 1" = 1'-0"

E

3

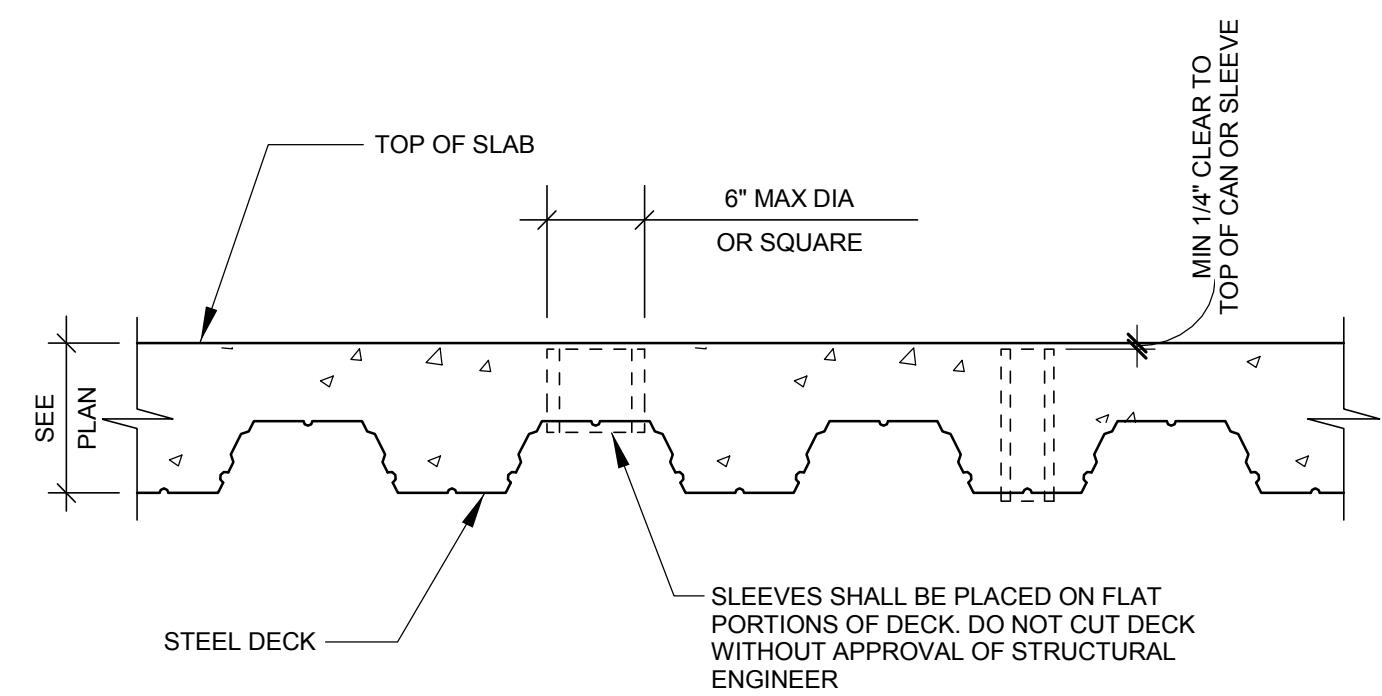


2

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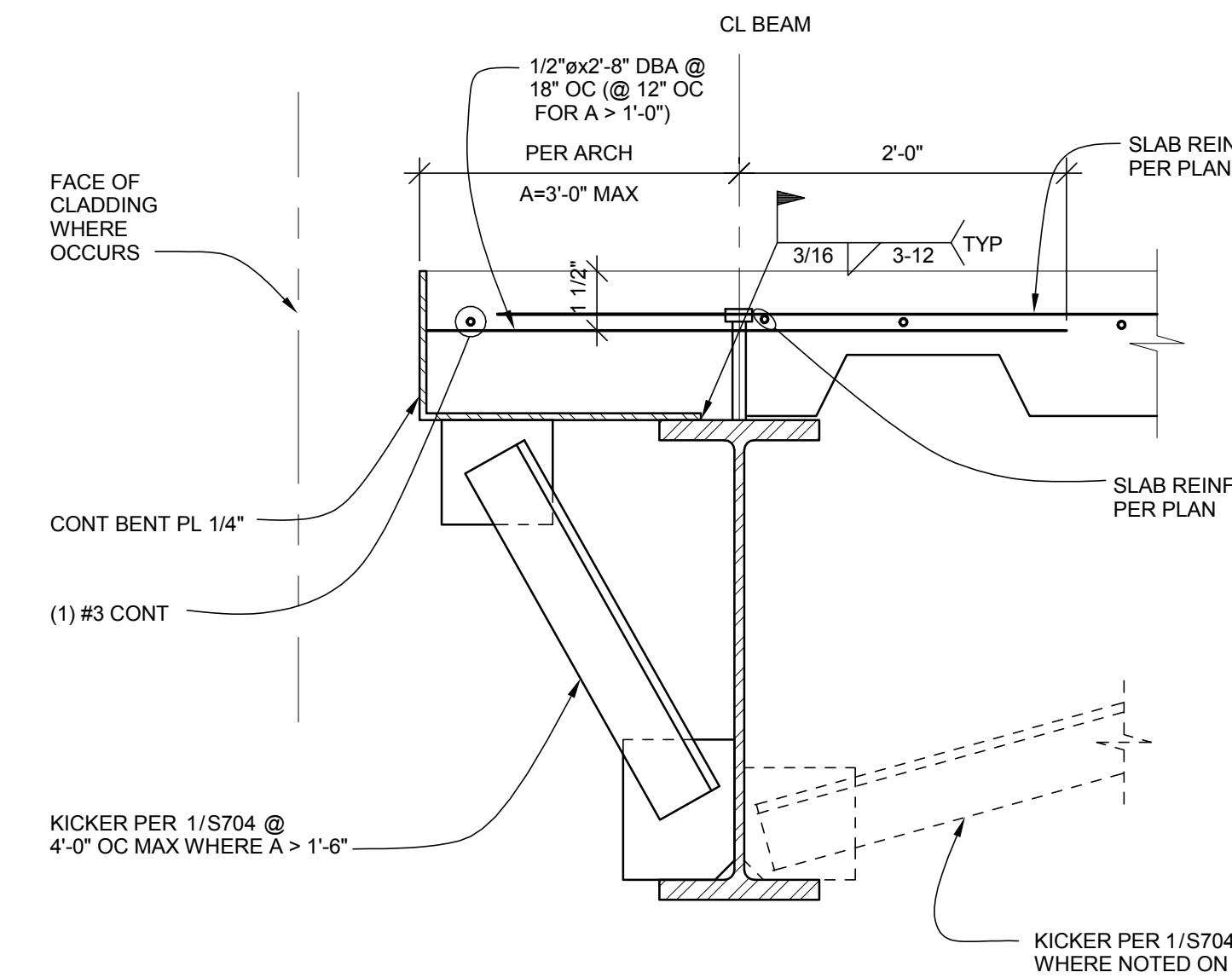
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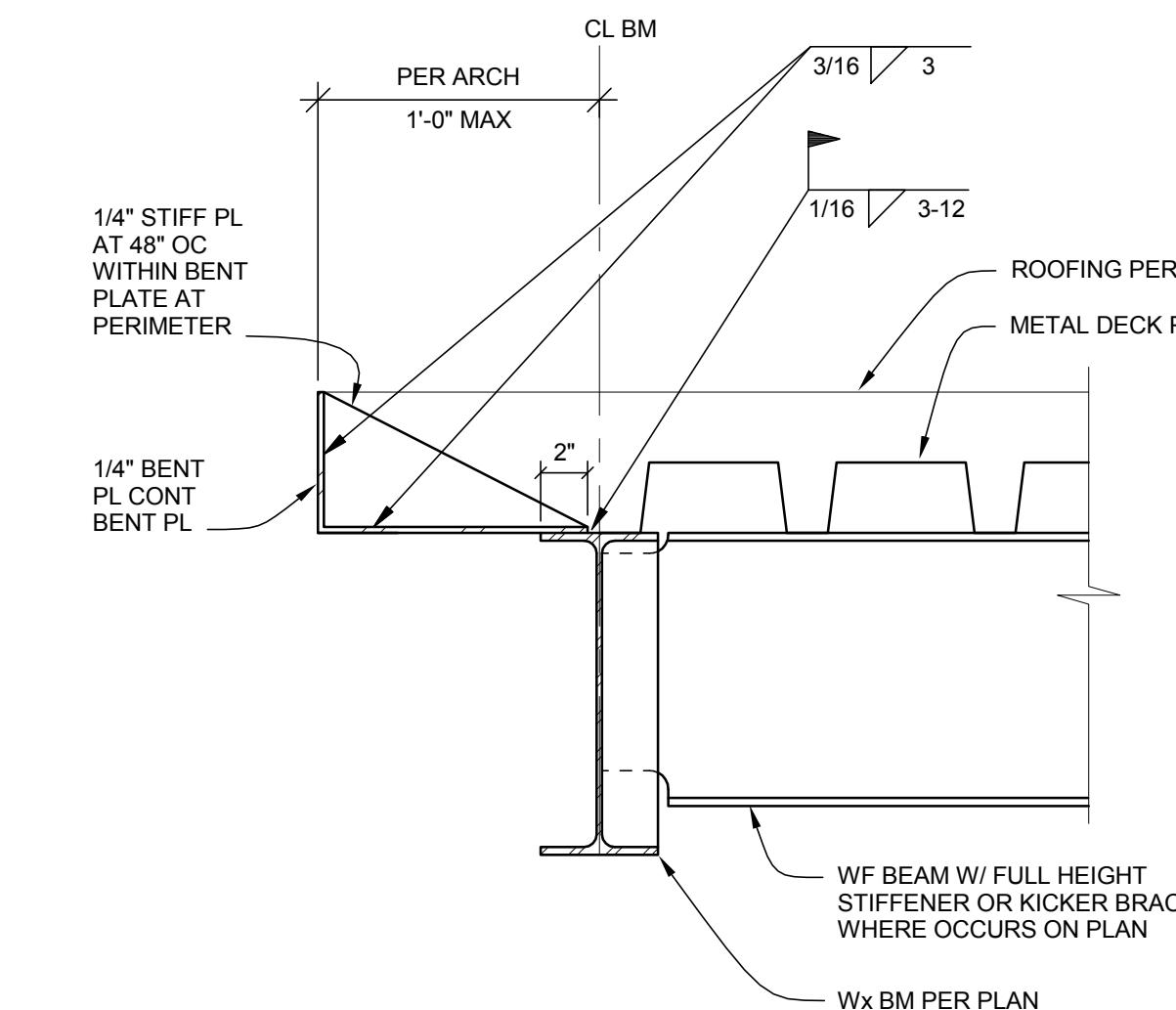
**5 TYPICAL UNSTIFFENED DECK SLEEVE DETAIL**

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



**6 TYP EXTERIOR EDGE OF CONCRETE DECK**

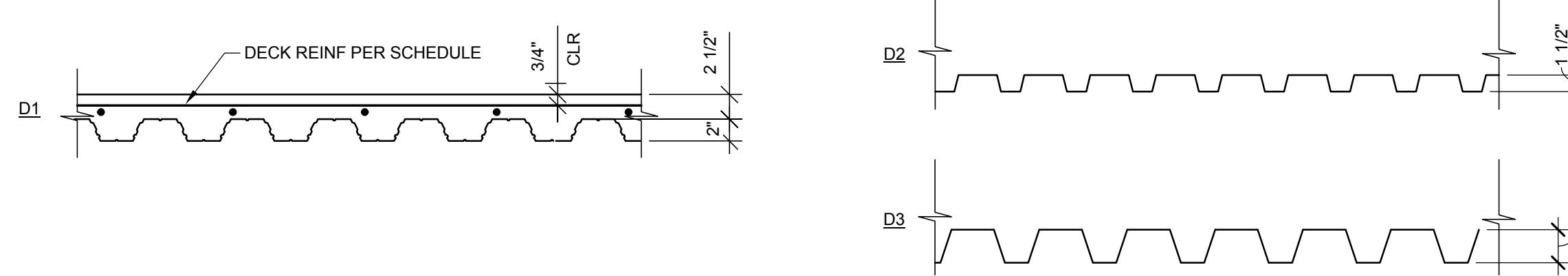
SCALE : 1" = 1'-0"



**7 EDGE OF BARE METAL DECK**

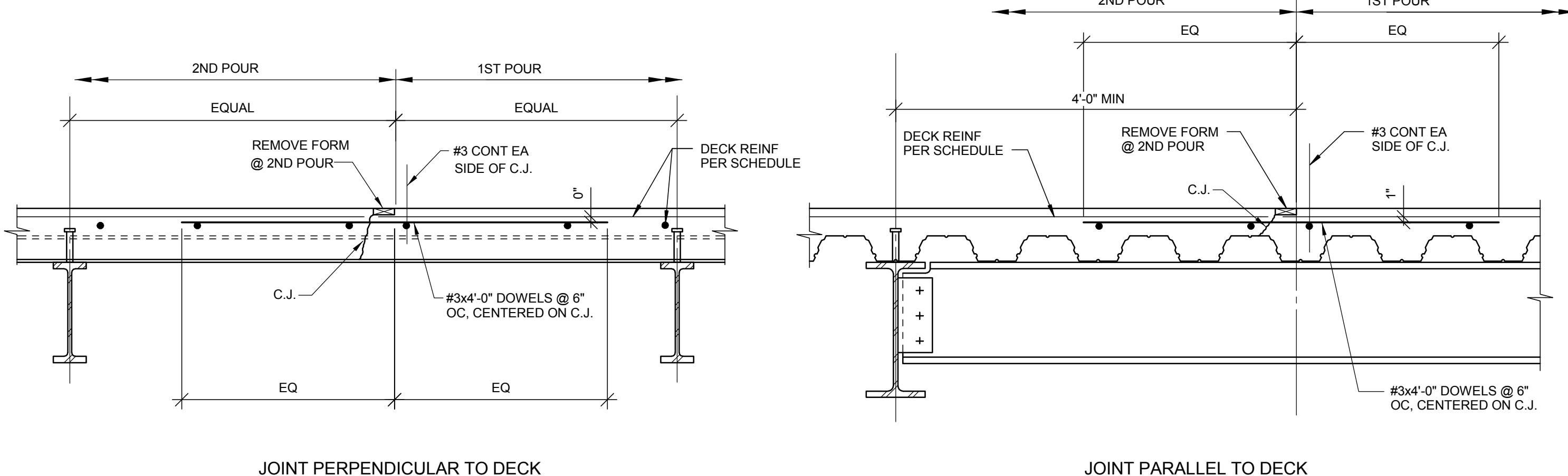
SCALE : 1" = 1'-0"

| MARK | STEEL DECK TYPE. | GAGE | TOTAL THICKNESS (t) | CONC. TYPE                | REINFORCING      | STEEL DECK ATTACHMENT PATTERN     |                               |                            |                                   | MAX. UNSHORED SPAN |             |             |
|------|------------------|------|---------------------|---------------------------|------------------|-----------------------------------|-------------------------------|----------------------------|-----------------------------------|--------------------|-------------|-------------|
|      |                  |      |                     |                           |                  | END                               | INT.                          | SEAM                       | MARGINAL                          | SINGLE SPAN        | DOUBLE SPAN | TRIPLE SPAN |
| D1   | VERCO W2 FORLOK  | 20   | 4 1/2"              | f'c=4000 psi<br>NORMAL WT | #3 @ 16" O.C. EW | 3/4" PUDDLE<br>WELD@ 36/4 PATTERN | 3/4" PUDDLE<br>WELD@ 12" O.C. | BUTTON PUNCH<br>@ 36" O.C. | 3/4" PUDDLE<br>WELD@ 36/4 PATTERN | 7'-6"              | 8'-6"       | 9'-6"       |
| D2   | PLB-36           | 18   | 1 1/2"              | N/A                       | N/A              | 3/4" PUDDLE<br>WELD@ 36/5 PATTERN | 3/4" PUDDLE<br>WELD@ 12" O.C. | VERCO SIDE CAP<br>@ 12" OC | 3/4" PUDDLE<br>WELD@ 36/5 PATTERN | N/A                | N/A         | N/A         |
| D3   | PLN-24           | 16   | 3"                  | N/A                       | N/A              | 3/4" PUDDLE<br>WELD@ 24/4 PATTERN | 3/4" PUDDLE<br>WELD@ 12" O.C. | VERCO SIDE CAP<br>@ 12" OC | 3/4" PUDDLE<br>WELD@ 24/4 PATTERN | N/A                | N/A         | N/A         |



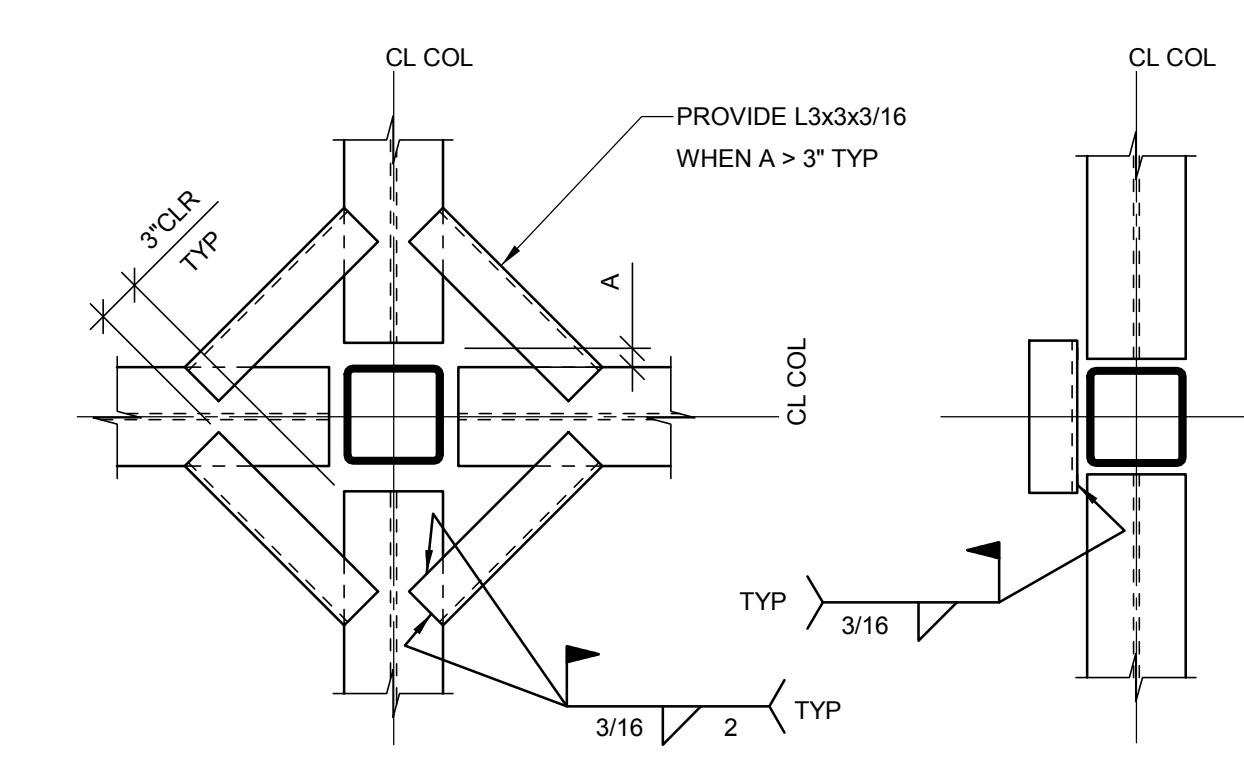
**1 STEEL DECK SCHEDULE**

SCALE : 1" = 1'-0"



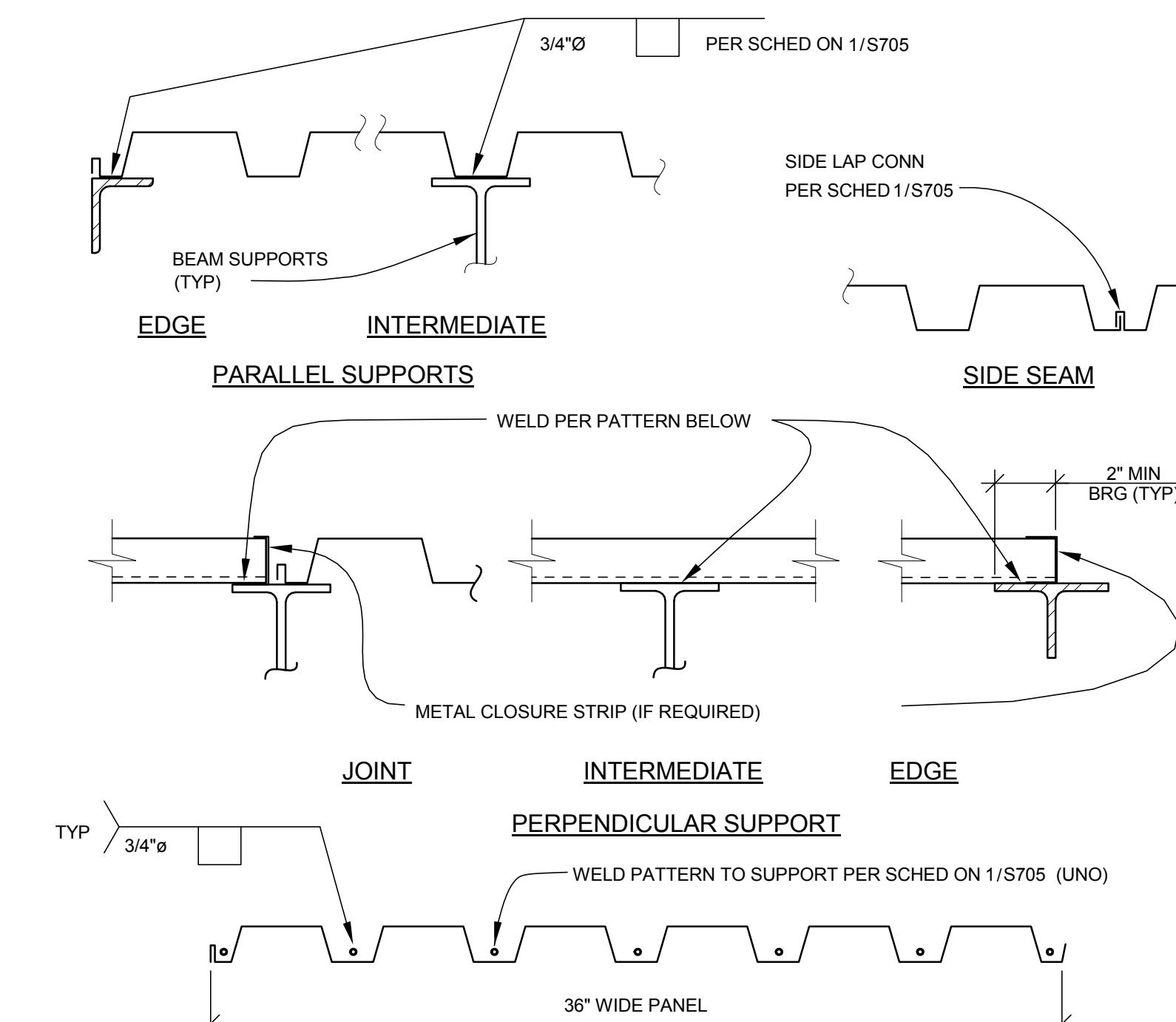
**2 CONSTRUCTION JOINT FOR SLAB**

SCALE : 1" = 1'-0"



**4 METAL DECK SUPPORT AT COLUMN**

SCALE : 1" = 1'-0"



**3 TYP ROOF DECK WELDING**

SCALE : 1" = 1'-0"

ARCHITECT:

COLE ARCHITECTS

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PROJECT INFORMATION:



**City of Boise Fire Station #8**

3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

PROJECT PHASE 75% CD

PROJECT NUMBER 114747.2

PROJECT MANAGER R. TeBeau

PROJECT ARCHITECT R. TeBeau

DESIGN B. Harris/R. TeBeau

DRAWN BY NLP

SHEET NAME:

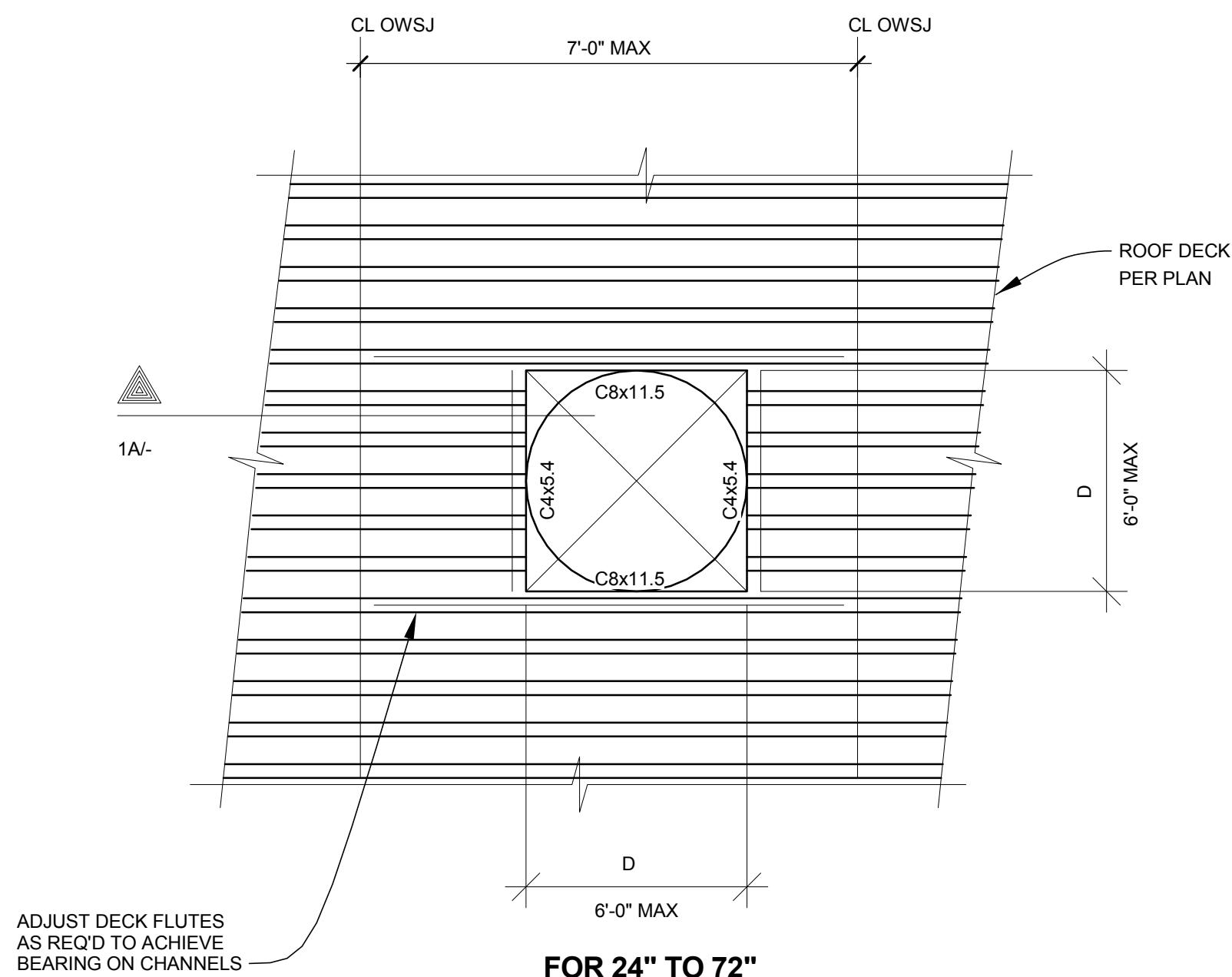
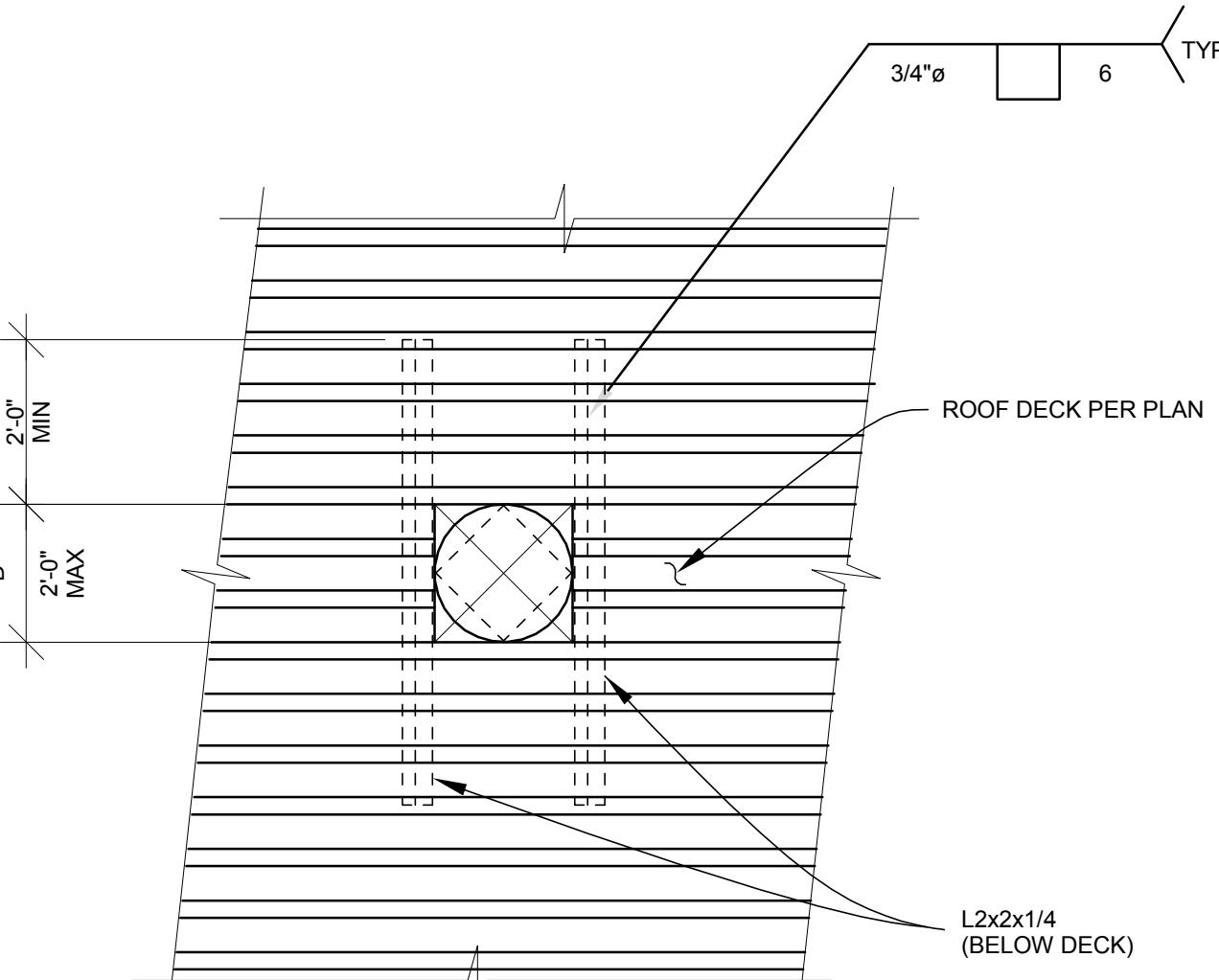
**TYPICAL STEEL DECK DETAILS**

SHEET NUMBER:

**S705**

11.09.15

A

**FOR D=6" TO 24"****FOR 24" TO 72"****NOTES:**

1. HOLES LESS THAN 6"Ø AND CUTTING NO MORE THAN 1 WEB REQUIRE NO REINFORCEMENT.
2. ALL METAL DECK OPENINGS SHOWN ABOVE APPLY ONLY TO DUCTWORK, PIPING, ROOF HATCHES AND SMALL AIR SHAFTS.
3. THESE REINFORCED OPENINGS ARE NOT INTENDED TO SUPPORT MECHANICAL EQUIPMENT.

**1 TYPICAL OPENING DETAILS FOR METAL DECKS**

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

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O: 208.336.6985  
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| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

PROJECT PHASE **75% CD**PROJECT NUMBER **114747.2**PROJECT MANAGER **R. TeBeau**PROJECT ARCHITECT **R. TeBeau**DESIGN **B. Harris/R. TeBeau**DRAWN BY **Author****TYPICAL STEEL DECK DETAILS****S706**

B

C

D

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**kpf**

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PROJECT INFORMATION:



**City of Boise Fire Station #8**  
3575 W. Overland Rd. Boise, ID 83705

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| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

|                   |                     |
|-------------------|---------------------|
| PROJECT PHASE     | 75% CD              |
| PROJECT NUMBER    | 114747.2            |
| PROJECT MANAGER   | R. TeBeau           |
| PROJECT ARCHITECT | R. TeBeau           |
| DESIGN            | B. Harris/R. TeBeau |
| DRAWN BY          | Author              |

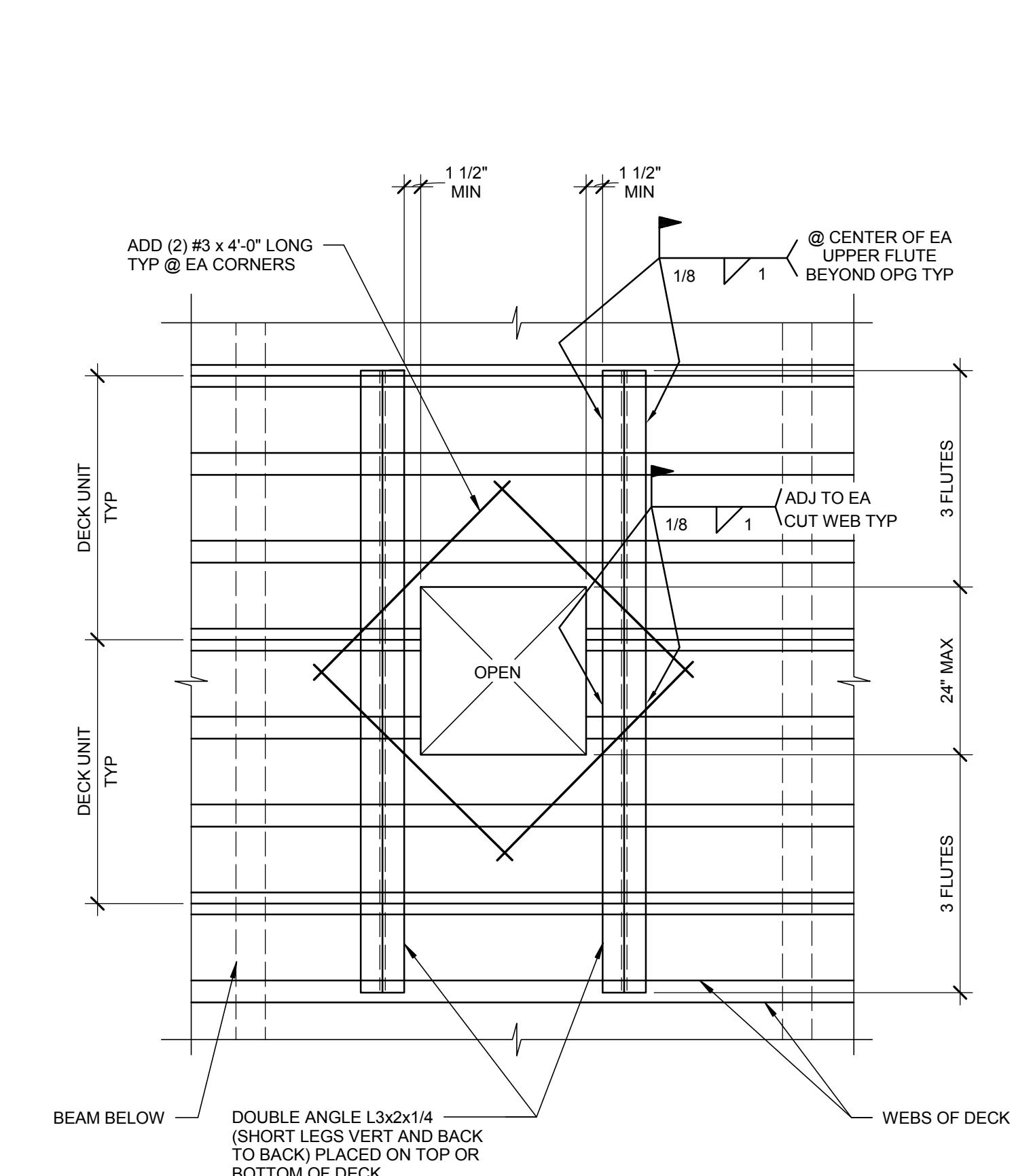
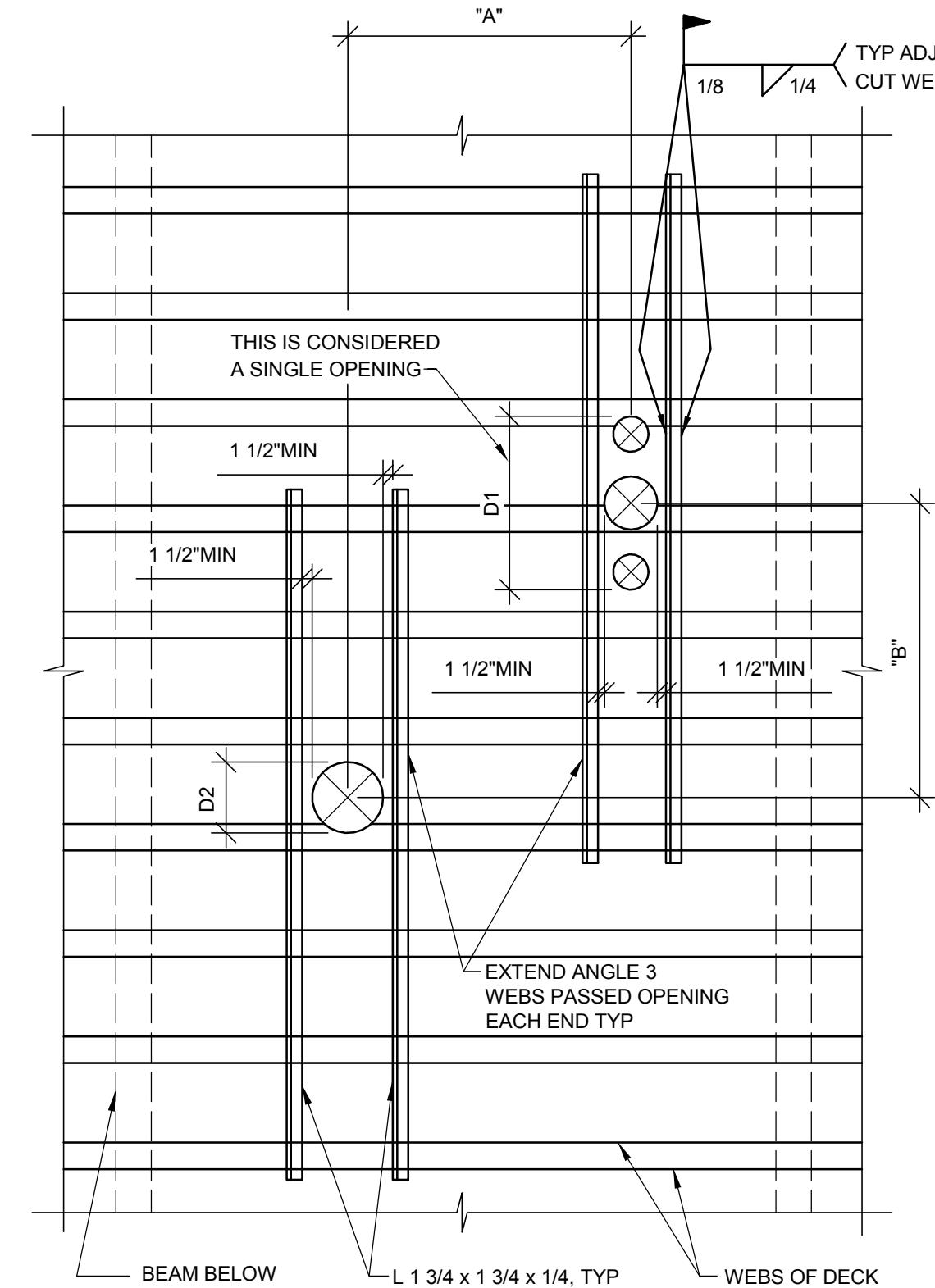
SHEET NAME:

**TYPICAL STEEL DECK DETAILS**

D SHEET NUMBER:

**S707**

11.09.15



**2 DECK SLEEVE DETAIL**

SCALE : 1" = 1'-0"

**1 DECK BLOCK OUT DETAIL**

SCALE : 1" = 1'-0"

A

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3575 W. Overland Rd. Boise, ID 83705

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|      |      |             |

| PROJECT PHASE     |                     |  |  |  |  |  |  |  |  | 75% CD |
|-------------------|---------------------|--|--|--|--|--|--|--|--|--------|
| PROJECT NUMBER    | 114747.2            |  |  |  |  |  |  |  |  |        |
| PROJECT MANAGER   | R. TeBeau           |  |  |  |  |  |  |  |  |        |
| PROJECT ARCHITECT | R. TeBeau           |  |  |  |  |  |  |  |  |        |
| DESIGN            | B. Harris/R. TeBeau |  |  |  |  |  |  |  |  |        |
| DRAWN BY          | Author              |  |  |  |  |  |  |  |  |        |
| SHEET NAME:       |                     |  |  |  |  |  |  |  |  |        |

**BRACE FRAME DETAIL**

SHEET NUMBER:

**S710**

11.09.15

**1 BRACED FRAME CONNECTION SCHEDULE & DETAILS**

SCALE : 1" = 1'-0"

| BRACED FRAME CONNECTION SCHEDULE |                 |          |        |      |      |      |        |      |      |        |
|----------------------------------|-----------------|----------|--------|------|------|------|--------|------|------|--------|
| CONNECTION TYPE                  | PLATE THICKNESS | MIN WELD |        |      |      |      |        |      |      |        |
|                                  |                 | SIZE     | LENGTH | SIZE | SIZE | SIZE | LENGTH | SIZE | SIZE | LENGTH |
| A                                | 1/4             | 1/4      | 6      | 1/4  | 12   | 1/4  | 12     | 3/8  | 1/4  | 24     |
| B                                | 3/8             | 1/4      | 9      | 1/4  | 16   | 1/4  | 16     | 3/8  | 1/4  | 36     |
| C                                | 1/2             | 1/4      | 12     | 1/4  | 18   | 1/4  | 18     | 1/2  | 1/4  | 42     |
| D                                | 5/8             | 1/4      | 12     | 1/4  | 18   | 1/4  | 18     | 1/2  | 1/4  | 48     |

NOTES:  
1. SEE BRACED FRAME ELEVATIONS FOR MEMBER SIZES.  
2. SEE SCHEDULE FOR WELD AND PLATE SIZES.  
3. ALL PLATES ARE A572 GR50.

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PROJECT INFORMATION:



**City of Boise Fire Station #8**  
3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

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|------|------|-------------|
|      |      |             |

PROJECT PHASE: 75% CD

PROJECT NUMBER: 114747.2

PROJECT MANAGER: R. TeBeau

PROJECT ARCHITECT: R. TeBeau

DESIGN: B. Harris/R. TeBeau

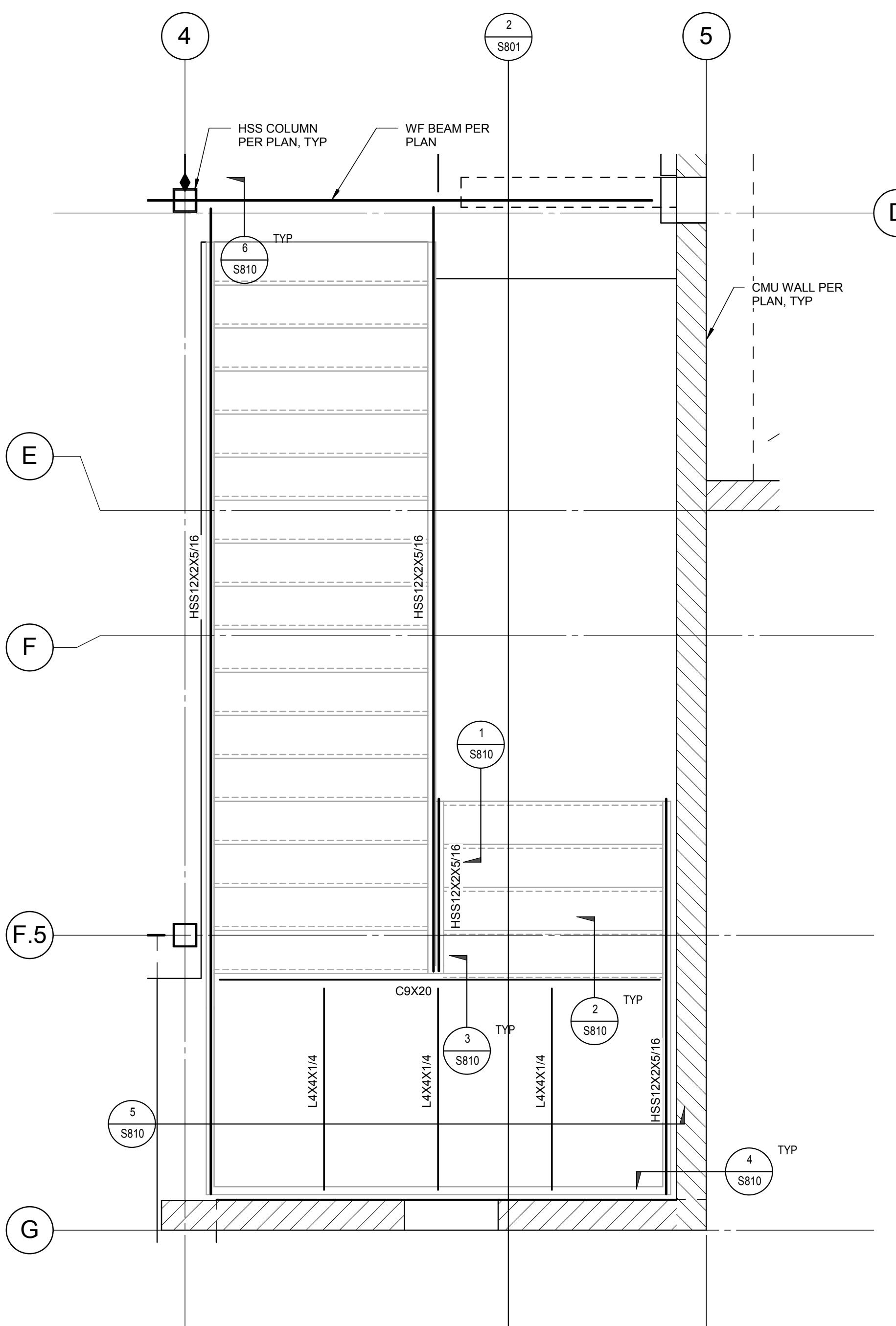
DRAWN BY: Author

SHEET NAME:

**STAIR PLANS AND SECTIONS**  
D

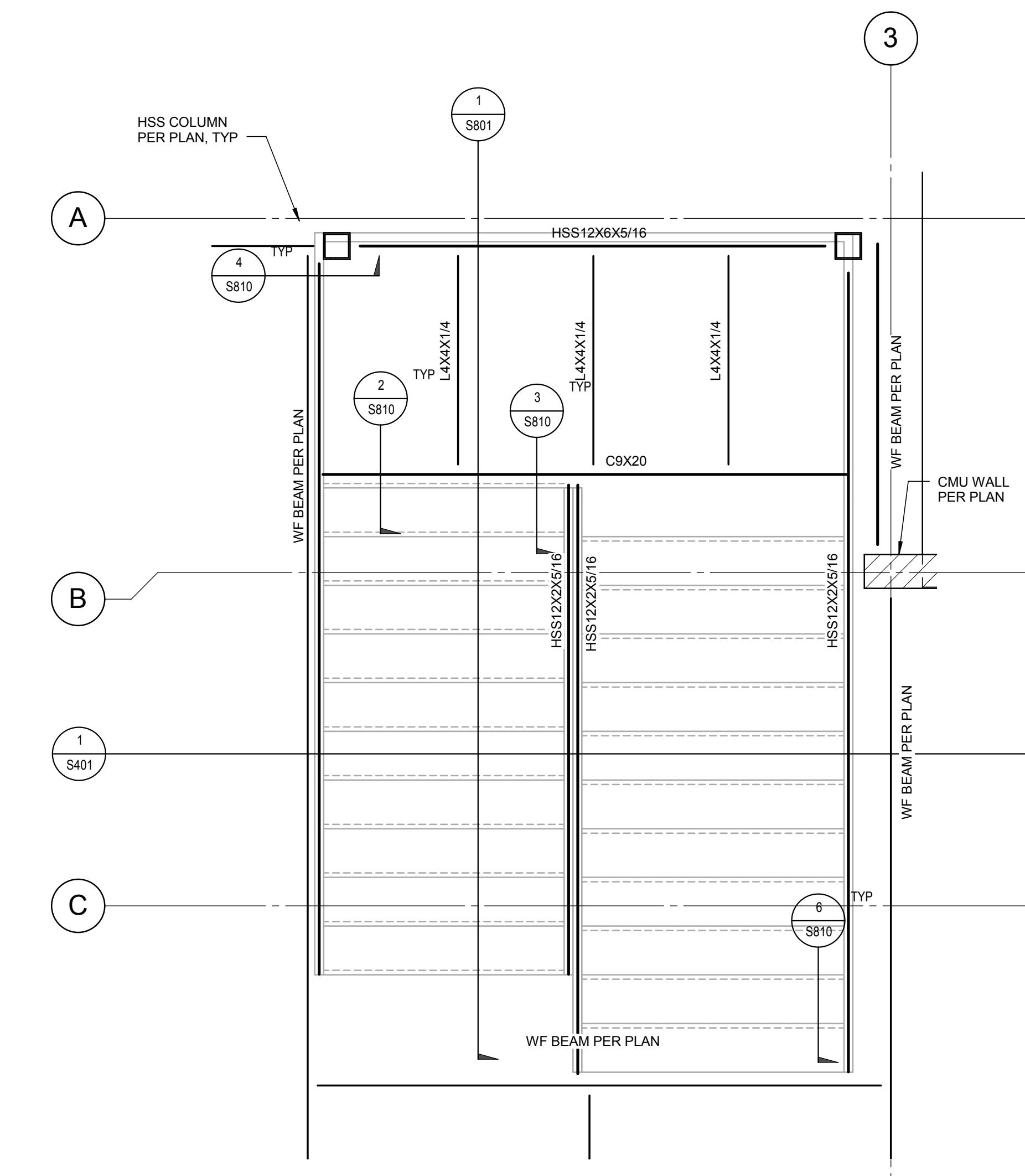
SHEET NUMBER:

**S800**  
11.09.15



**2 STAIR 02 PARTIAL PLAN**

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



**1 STAIR 01 PARTIAL PLAN**

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

A

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PROJECT PHASE **75% CD**

|                   |                     |
|-------------------|---------------------|
| PROJECT NUMBER    | 114747.2            |
| PROJECT MANAGER   | R. TeBeau           |
| PROJECT ARCHITECT | R. TeBeau           |
| DESIGN            | B. Harris/R. TeBeau |
| DRAWN BY          | Author              |

SHEET NAME:

**STAIR PLANS AND  
SECTIONS**

SHEET NUMBER:

**S801**

A

A

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5

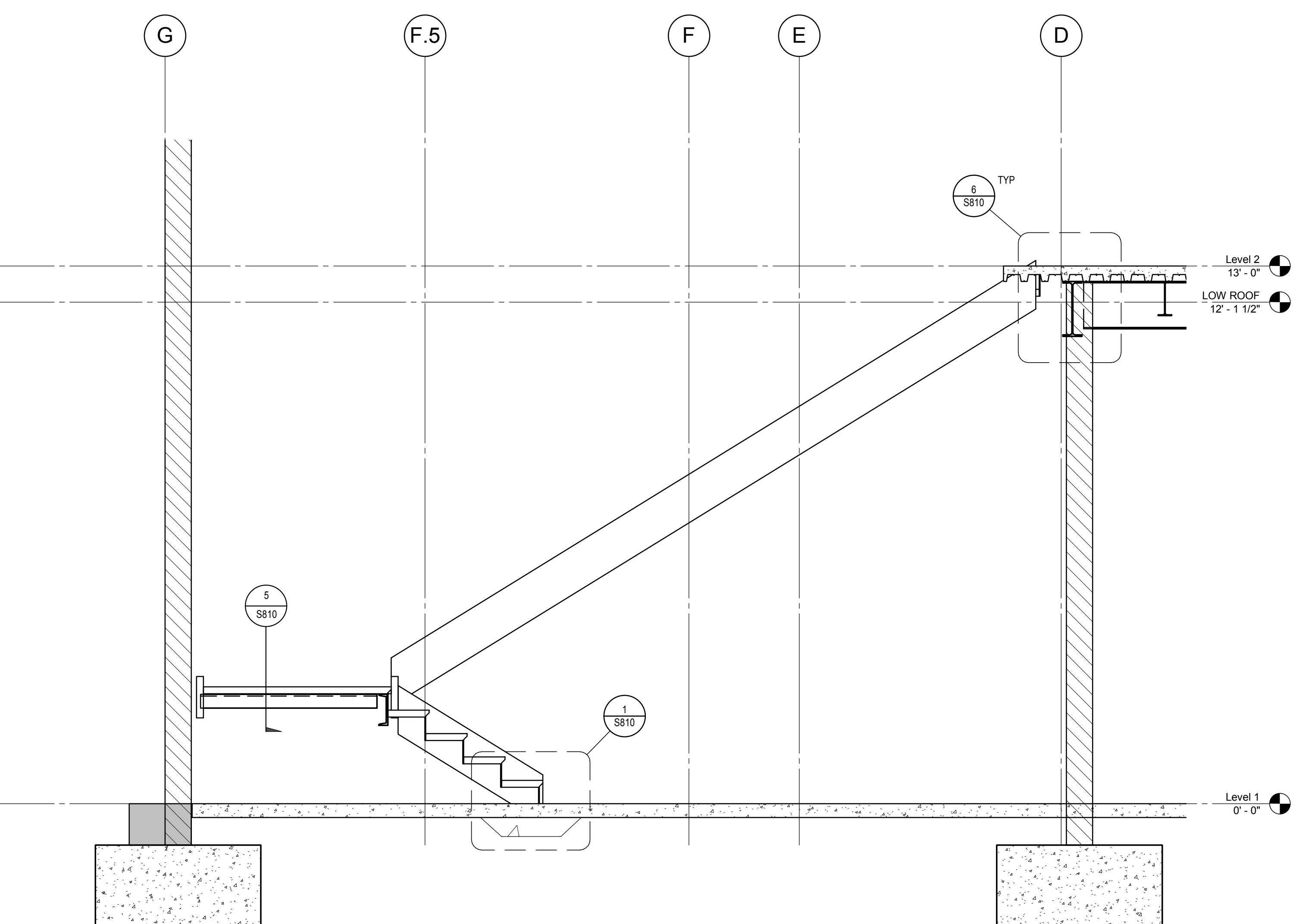
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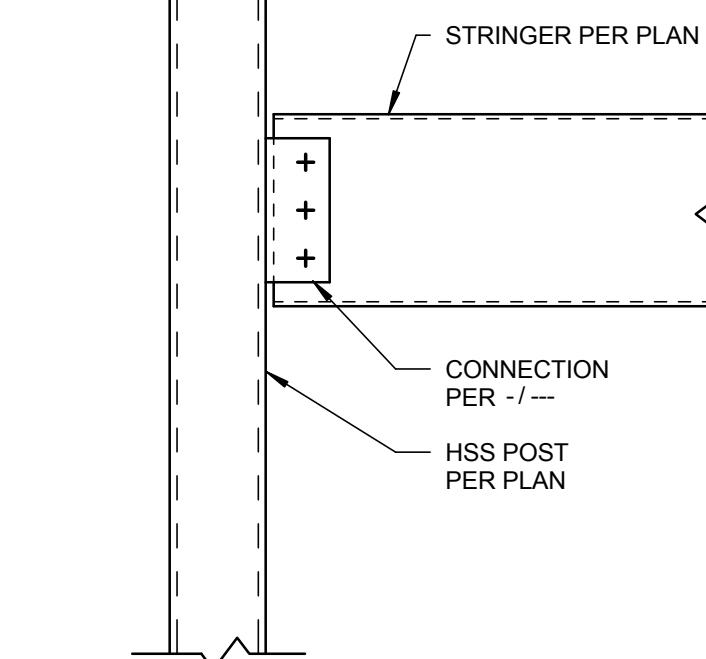
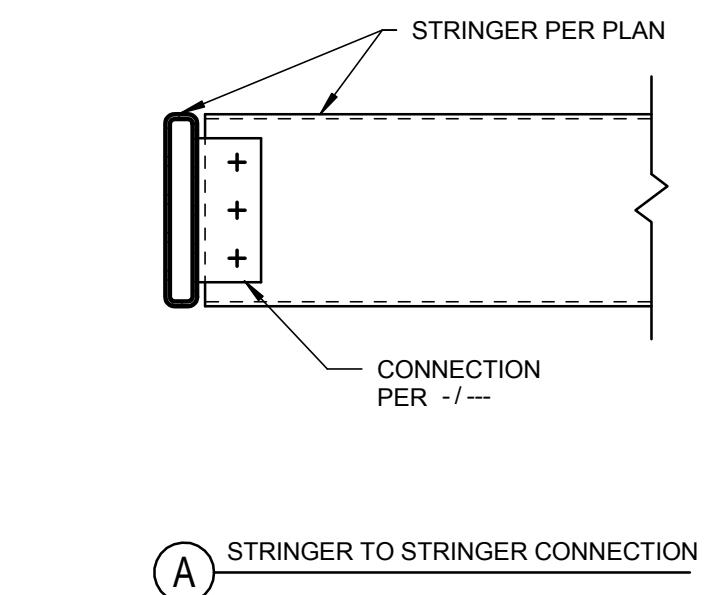
**2 STAIR 02 SECTION**

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

**1 STAIR 01 SECTION**

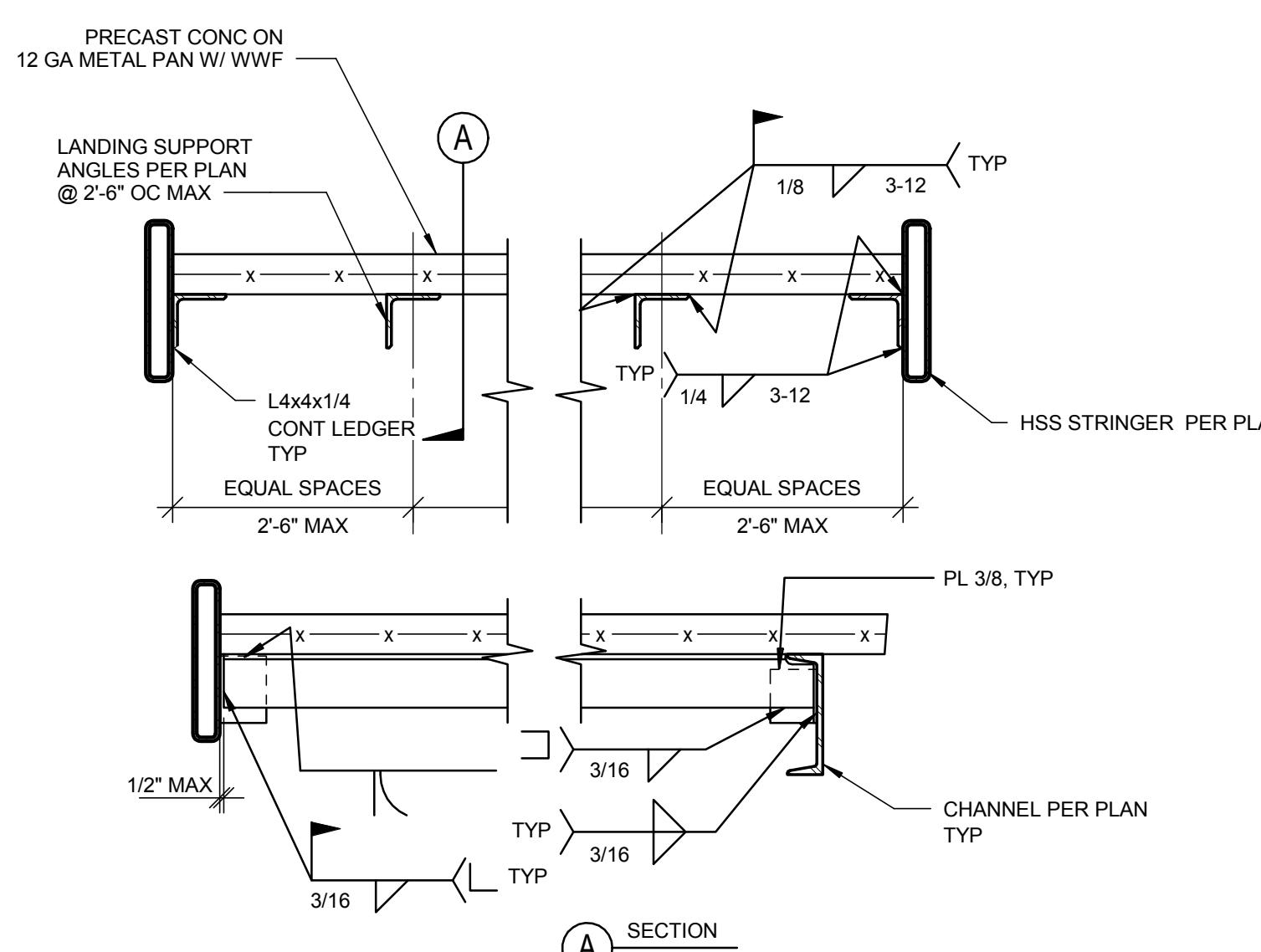
SCALE : 1/2" = 1'-0"

11.09.15



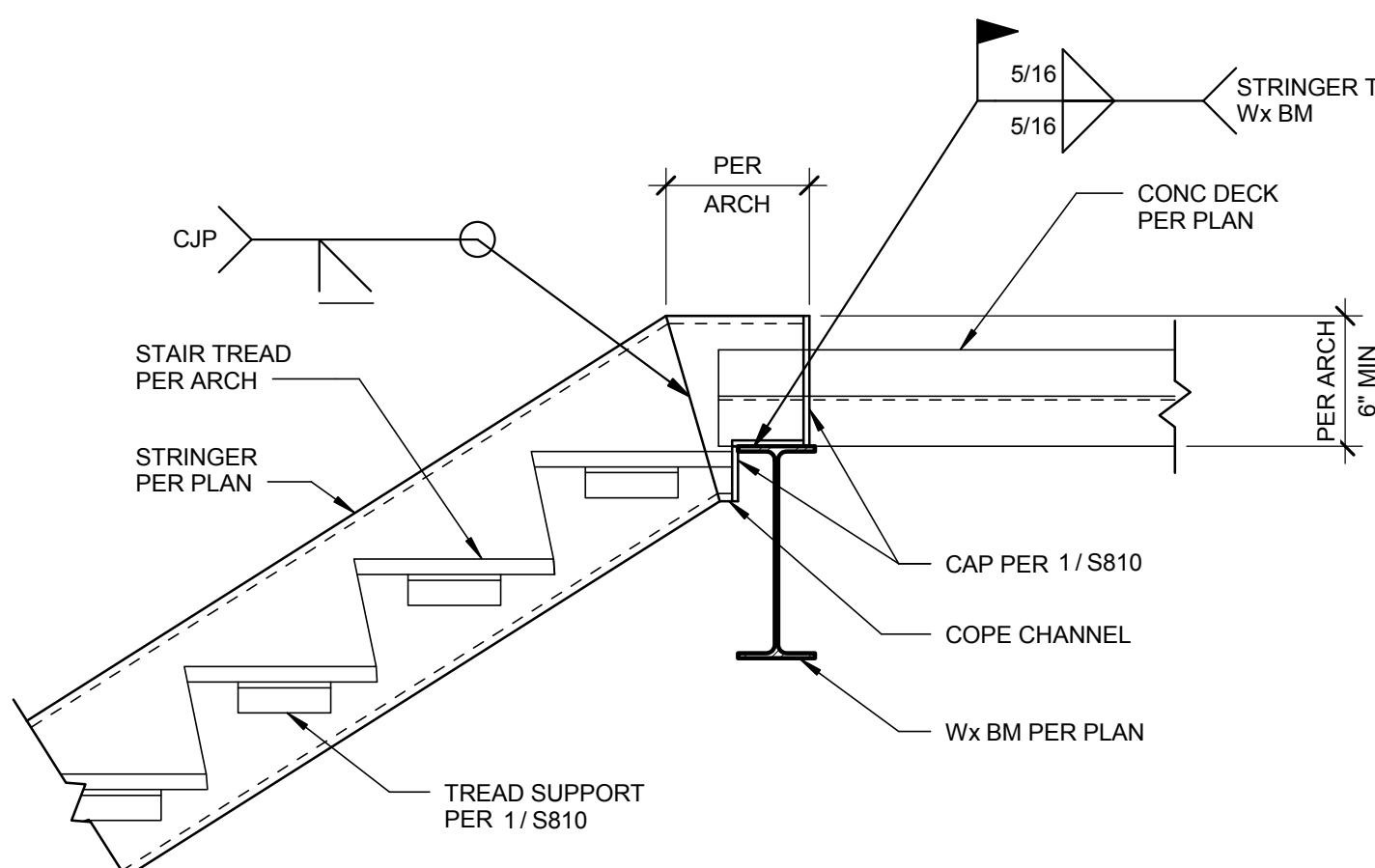
#### 4 STRINGER CONNECTION DETAIL

SCALE : 1" = 1'-0"



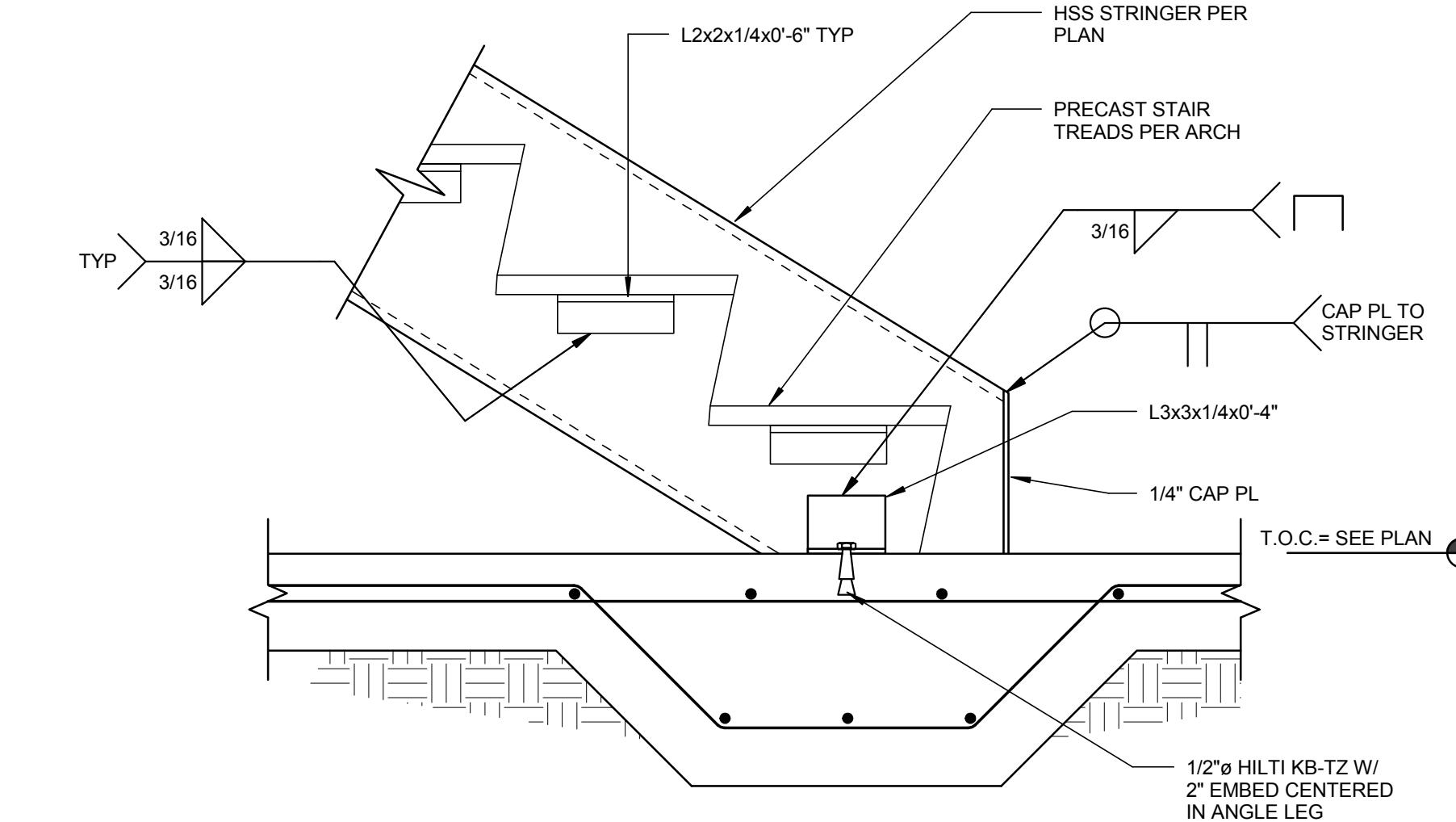
#### 5 LANDING SECTION

SCALE : 1" = 1'-0"



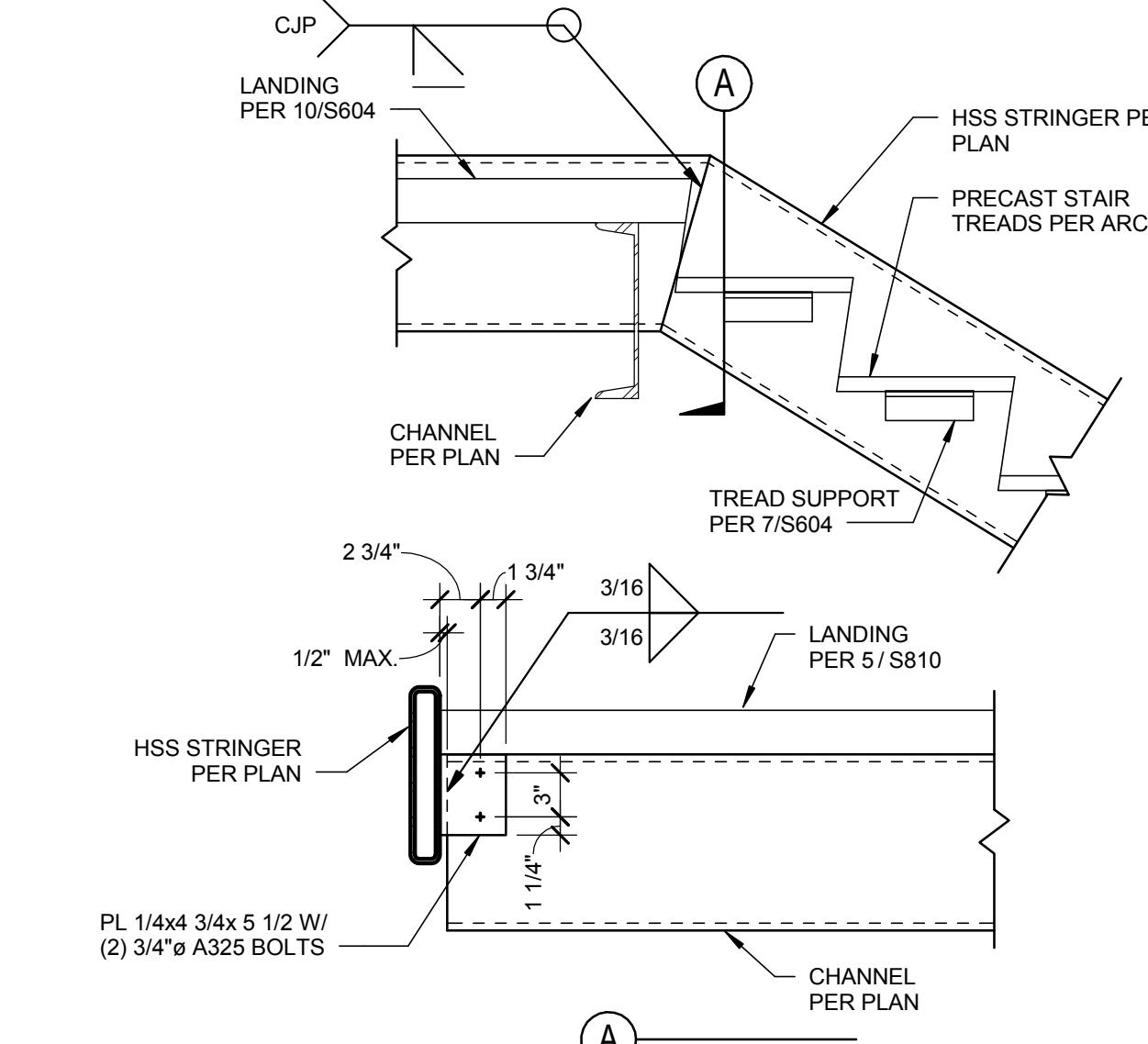
#### 6 STRINGER TO Wx BEAM

SCALE : 1" = 1'-0"



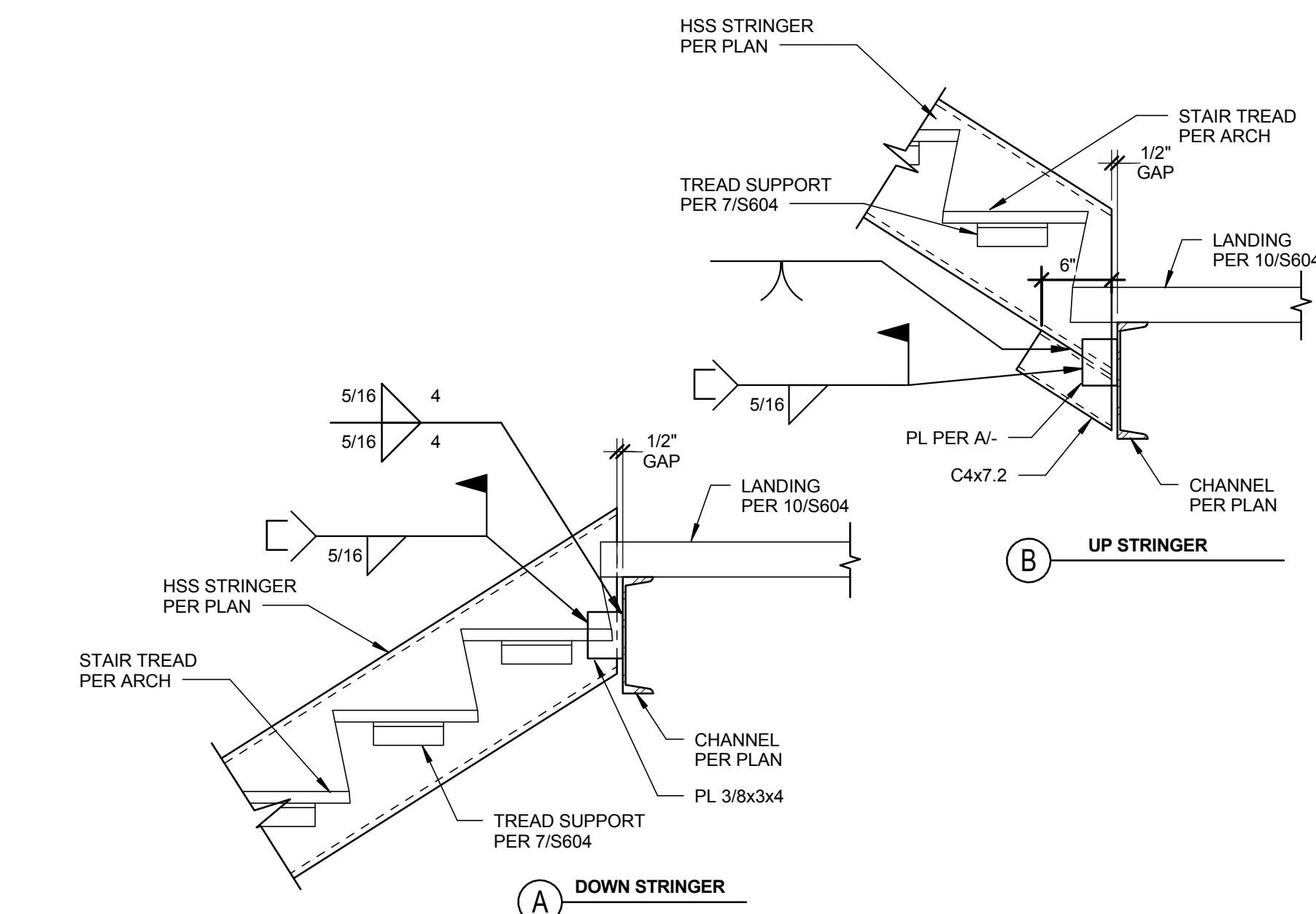
#### 1 STAIR BASE DETAIL

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



#### 2 STRINGER DETAIL

SCALE : 1" = 1'-0"



#### 3 STRINGER CONNECTION DETAIL

SCALE : 1" = 1'-0"

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**City of Boise Fire Station #8**  
3575 W. Overland Rd. Boise, ID 83705

| MARK | DATE | DESCRIPTION |
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|      |      |             |

|               |        |
|---------------|--------|
| PROJECT PHASE | 75% CD |
|---------------|--------|

|                   |              |
|-------------------|--------------|
| PROJECT NUMBER    | 114747.2     |
| PROJECT MANAGER   | J. Chaffield |
| PROJECT ARCHITECT | J. Chaffield |
| DESIGN            | J. Chaffield |
| DRAWN BY          | Author       |

SHEET NAME:

STAIR DETAILS

SHEET NUMBER:

**S810**



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**1 TYPICAL HEADER/SILL TO JAMB CONNECTION**

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

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3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

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|------|------|-------------|
|------|------|-------------|

PROJECT PHASE **75% CD**

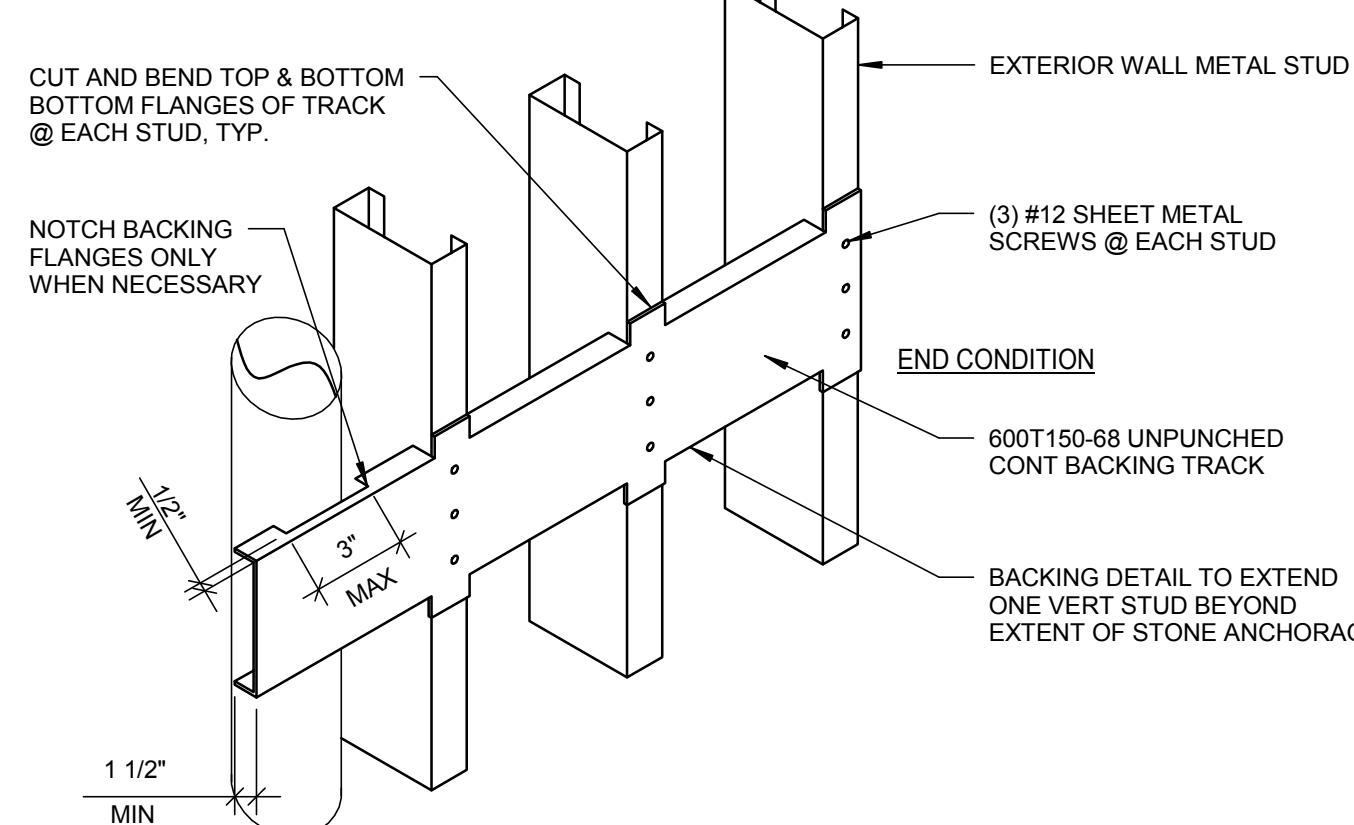
|                   |              |
|-------------------|--------------|
| PROJECT NUMBER    | 114747.2     |
| PROJECT MANAGER   | J. Chatfield |
| PROJECT ARCHITECT | J. Chatfield |
| DESIGN            | J. Chatfield |
| DRAWN BY          | Author       |

SHEET NAME:

**EXTERIOR WALL TYPICAL DETAILS**

SHEET NUMBER:

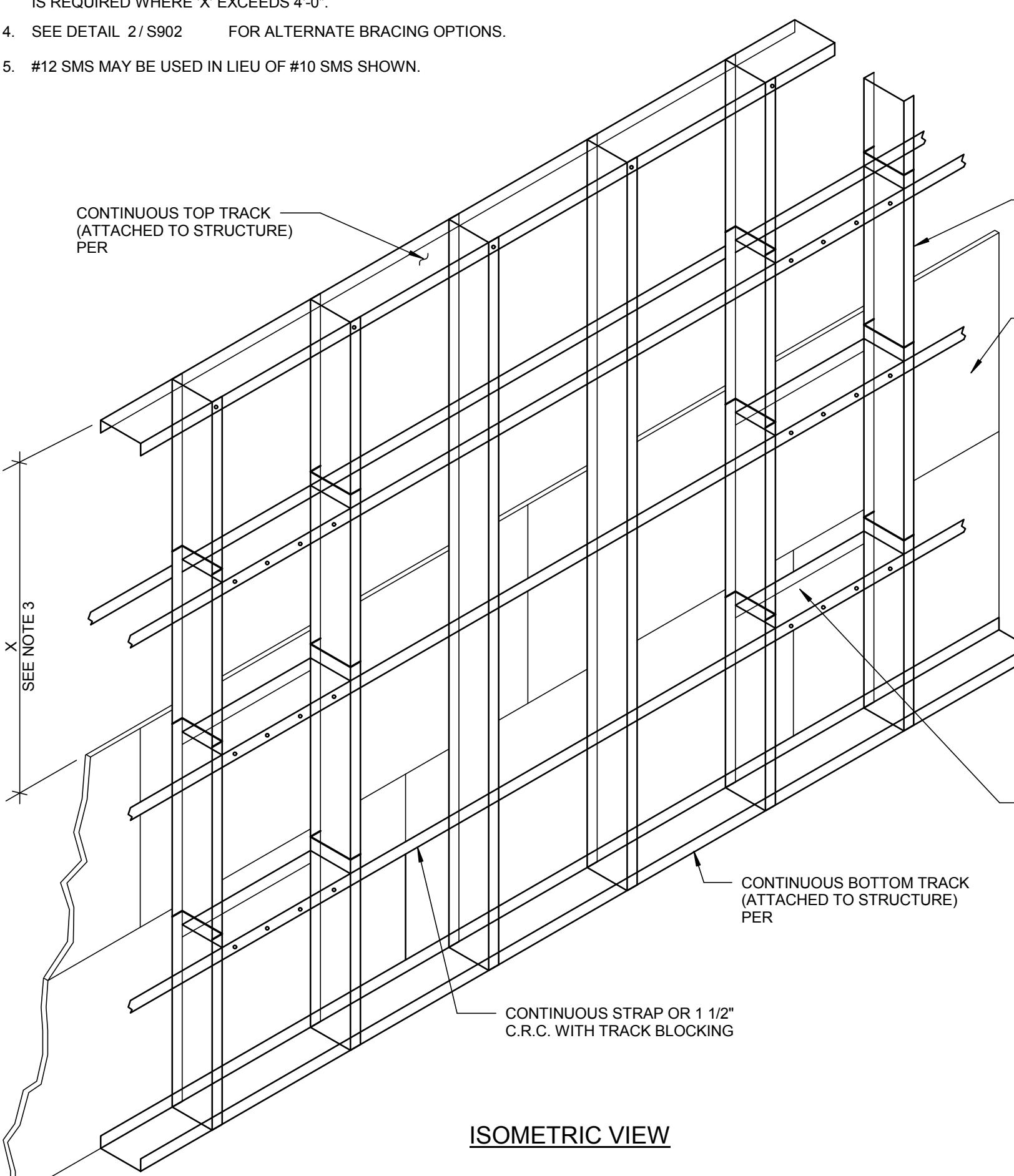
**S902**



- NOTES:**
1. LATERAL BRACING OF METAL STUDS REQUIRED WHEN GYP BOARD IS NOT PROVIDED ON BOTH SIDES OF METAL STUD.
  2. BRIDGING/BRACING TO BE SPACED AT 4'-0" OC MAX VERTICALLY.
  3. WHERE ARCHITECTURAL DRAWINGS DO NOT REQUIRE GYP BOARD TO EXTEND THE FULL WALL HEIGHT, LATERAL BRACING IS REQUIRED WHERE 'X' EXCEEDS 4'-0".
  4. SEE DETAIL 2/S902 FOR ALTERNATE BRACING OPTIONS.
  5. #12 SMS MAY BE USED IN LIEU OF #10 SMS SHOWN.

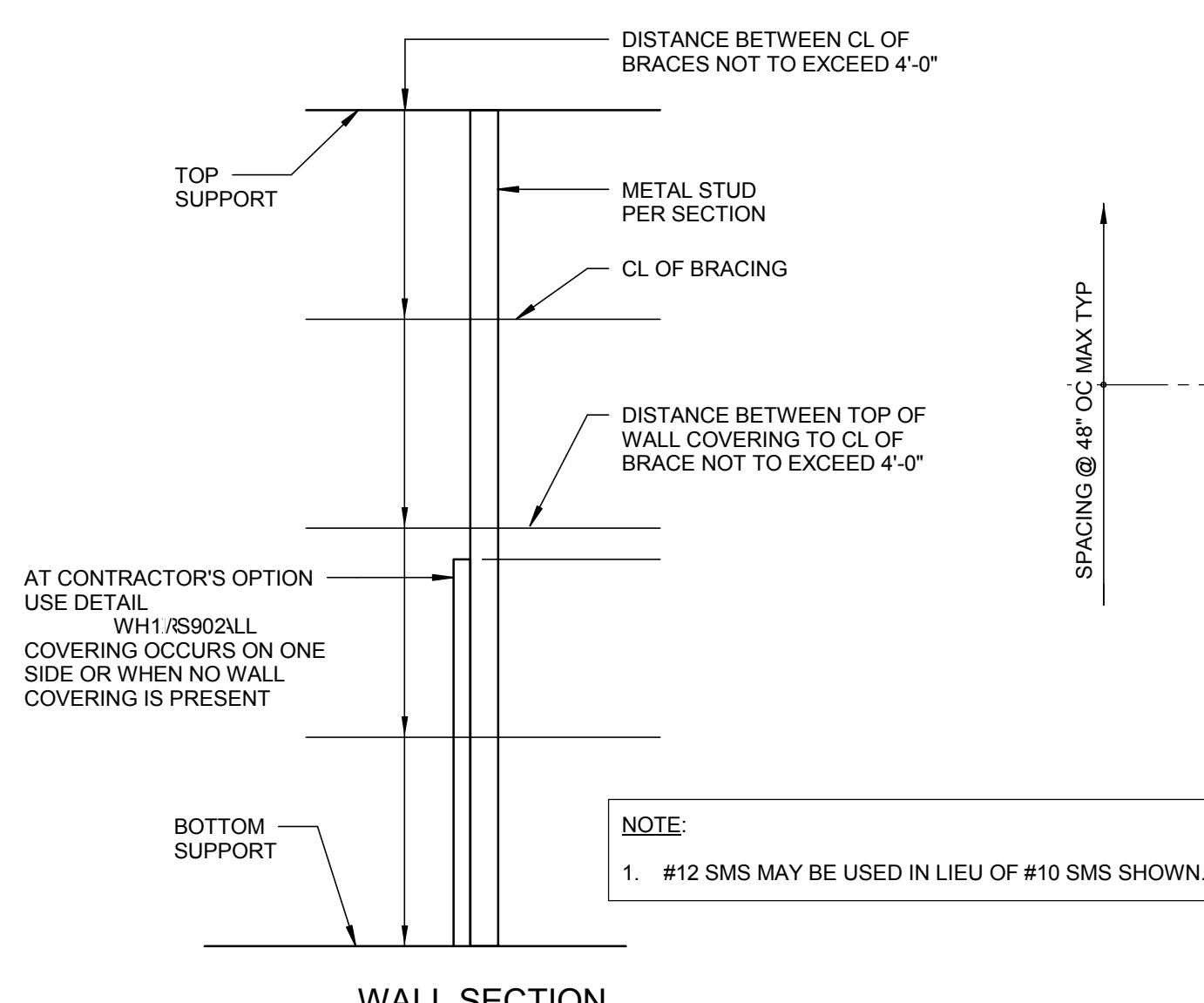
**3 STEEL STUD BACKING DETAIL**

SCALE: 1" = 1'-0"



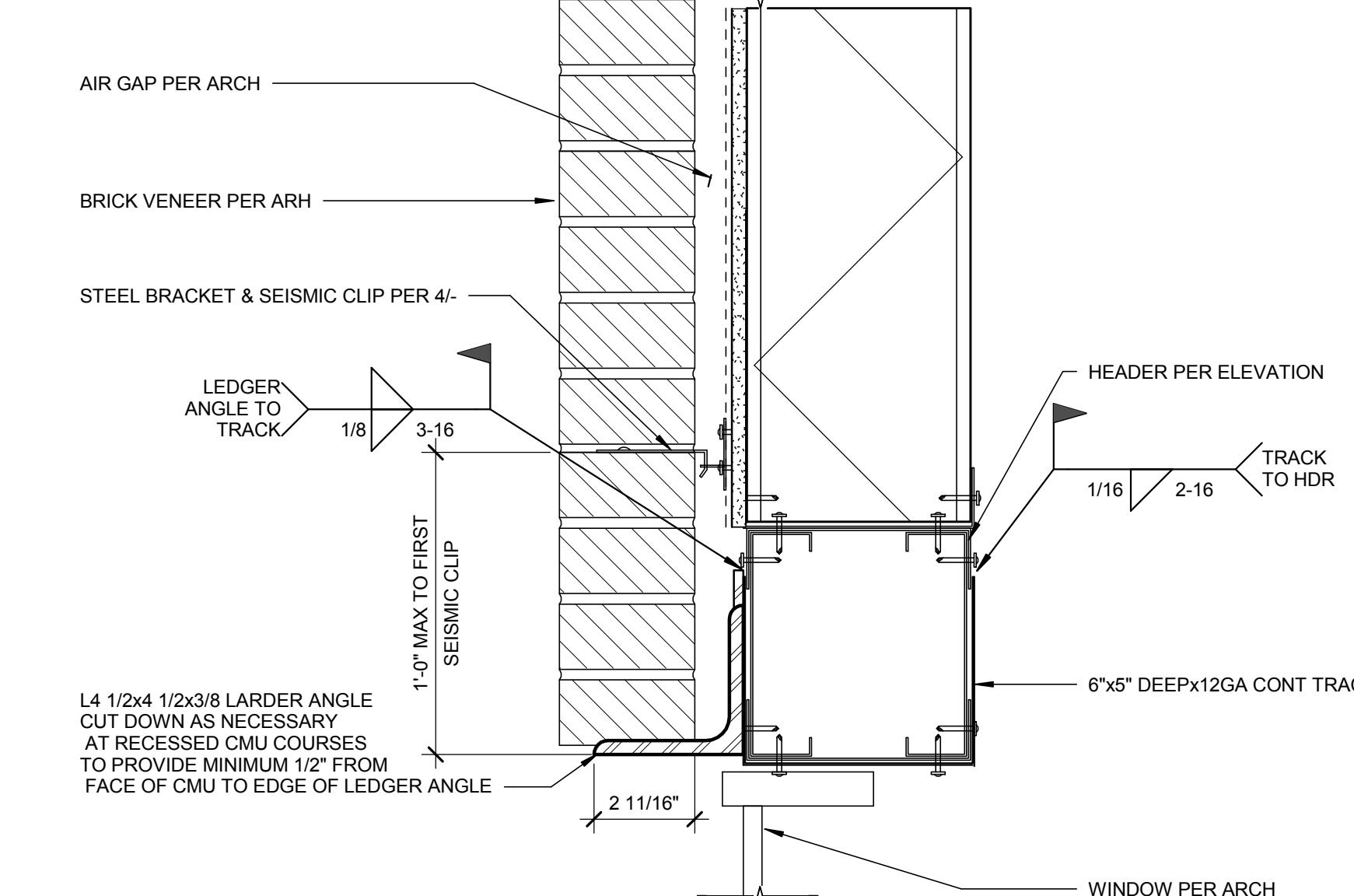
**1 METAL STUD BRACING DETAIL**

SCALE: 1" = 1'-0"



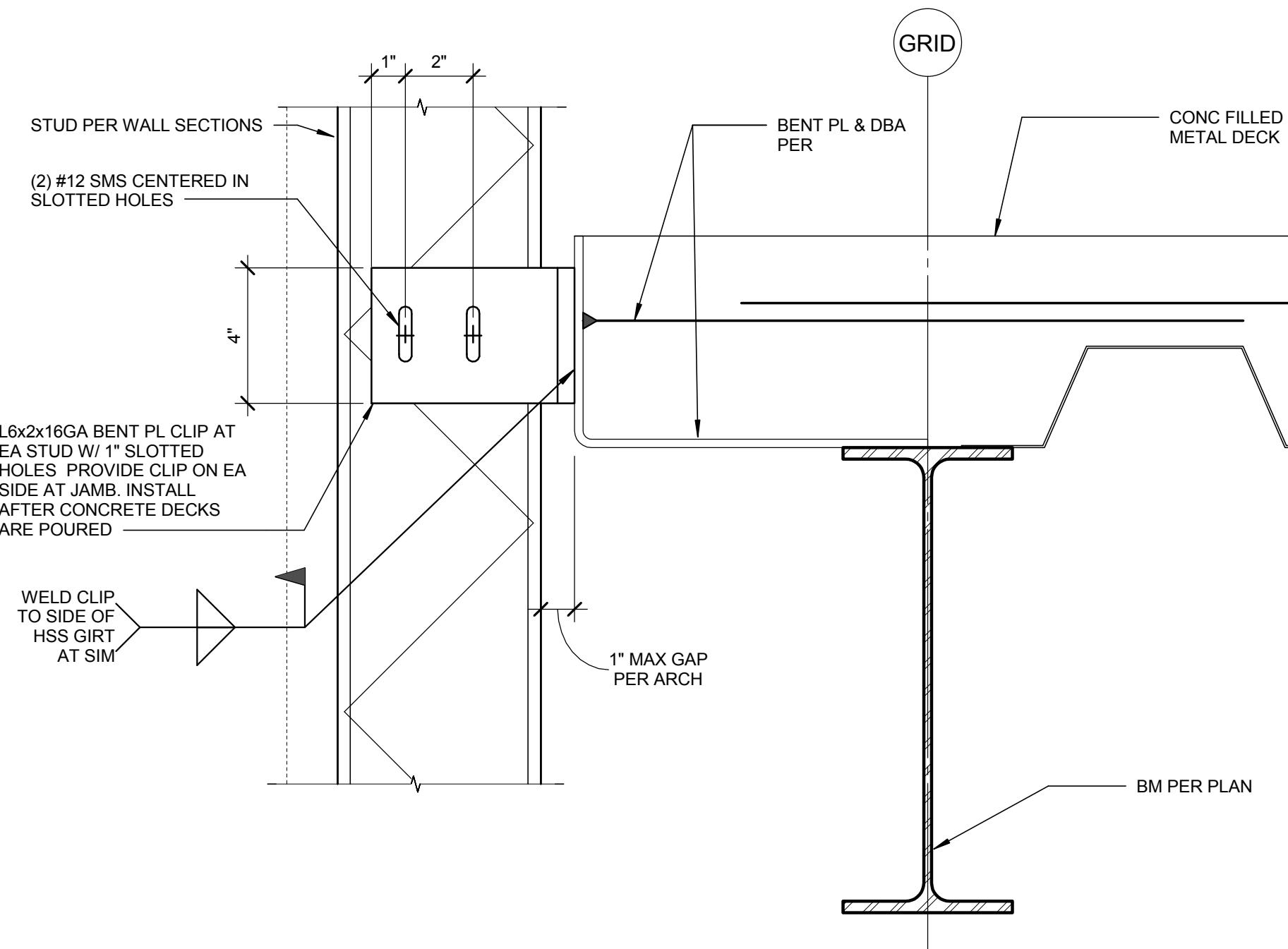
**2 ALTERNATE WALL BRACING DETAIL**

SCALE: NTS



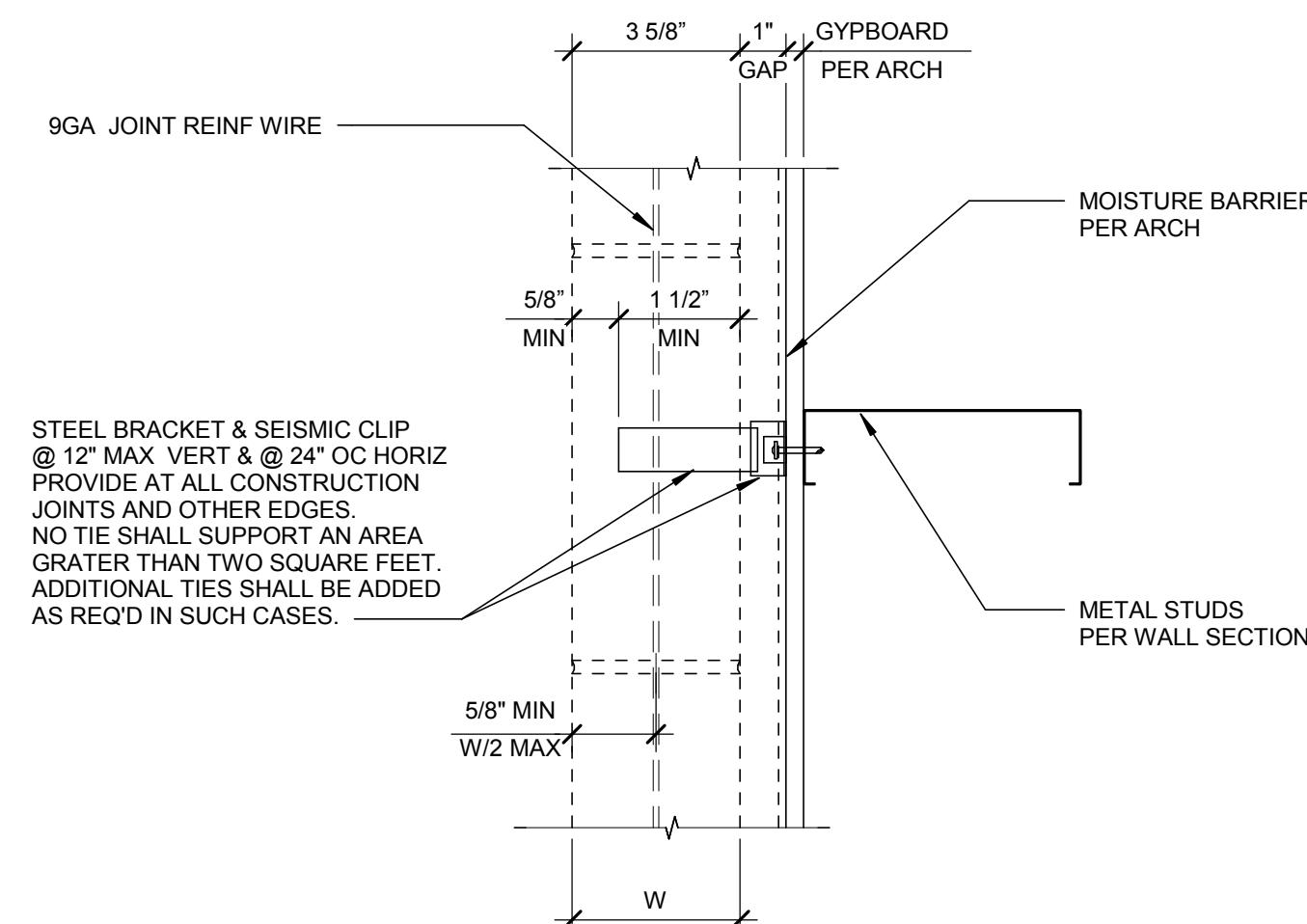
**3 BRICK LEDGER ANGLE**

SCALE : 3" = 1'-0"



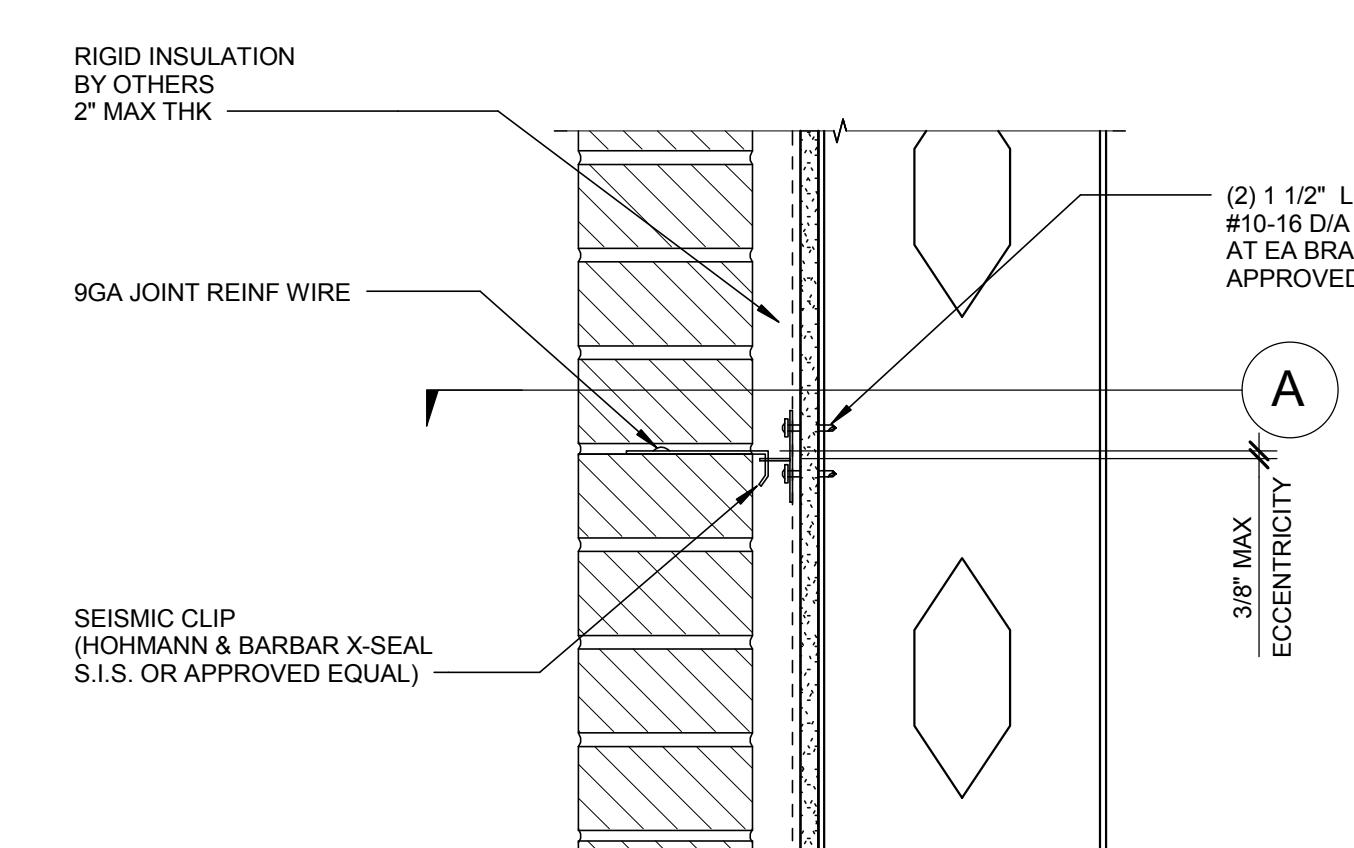
**1 TYPICAL METAL STUD CONN TO CONC DECK**

SCALE : 3" = 1'-0"



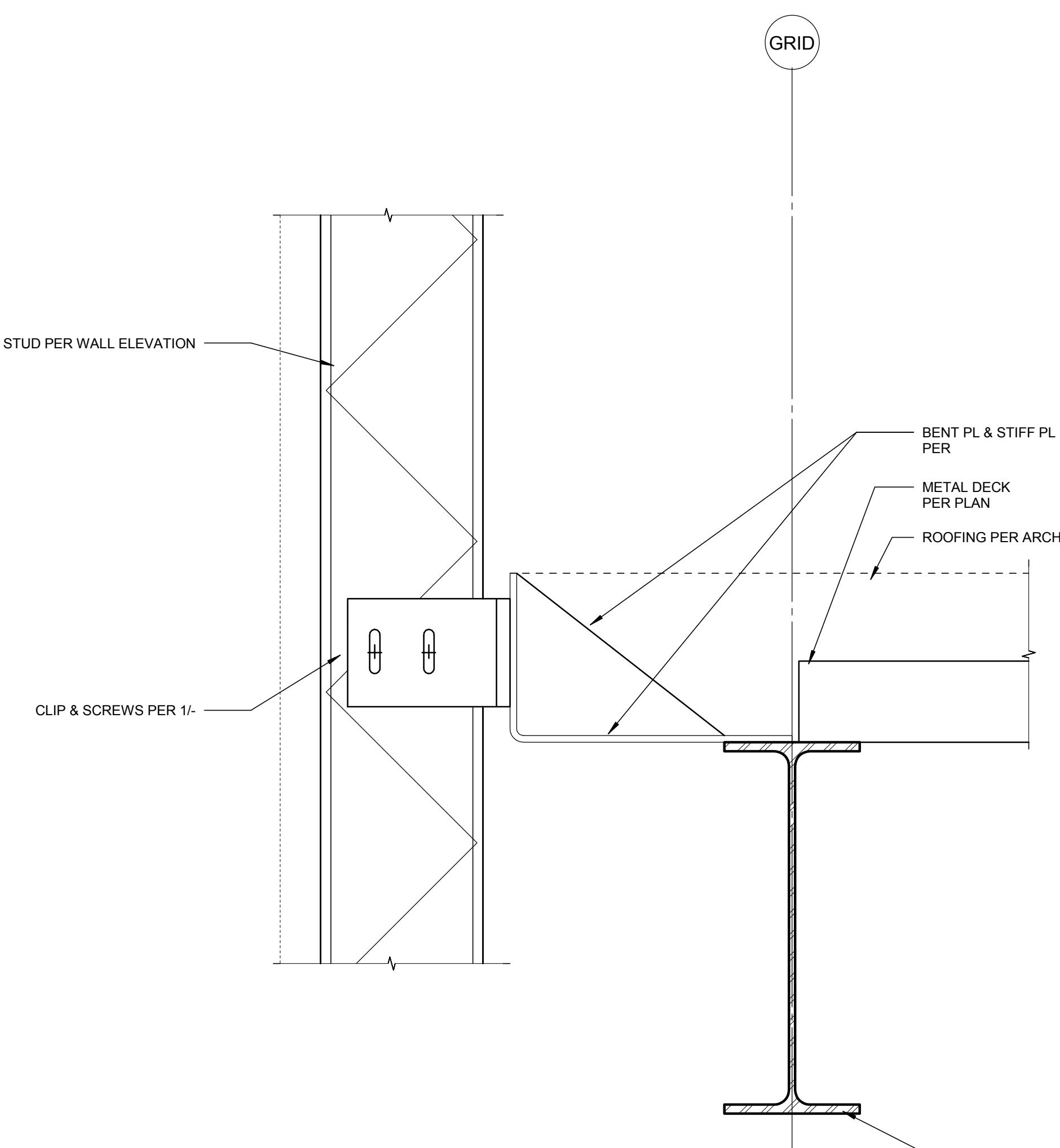
**4A SECTION**

SCALE : 3" = 1'-0"



**4 TYPICAL BRICK METAL STUD CONN**

SCALE : 3" = 1'-0"



**2 TYPICAL METAL STUD CONN TO METAL DECK**

SCALE : 3" = 1'-0"

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**kpf**

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PROJECT PHASE **75% CD**

PROJECT NUMBER 114747.2  
PROJECT MANAGER J. Chaffield  
PROJECT ARCHITECT J. Chaffield  
DESIGN J. Chaffield  
DRAWN BY Author

SHEET NAME:

**EXTERIOR WALL TYPICAL DETAILS**

SHEET NUMBER:

**S903**

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REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

|                   |              |
|-------------------|--------------|
| PROJECT PHASE     | 75% CD       |
| PROJECT NUMBER    | 114747.2     |
| PROJECT MANAGER   | J. Chaffield |
| PROJECT ARCHITECT | J. Chaffield |
| DESIGN            | J. Chaffield |
| DRAWN BY          | Author       |

SHEET NAME:

**EXTERIOR WALL  
TYPICAL DETAILS**

SHEET NUMBER:

**S904**

11.09.15



1

**TYPICAL ROOF LEVEL SPANDREL FRAMING**

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

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D

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| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

PROJECT PHASE **75% CD**

|                   |               |
|-------------------|---------------|
| PROJECT PHASE     | <b>75% CD</b> |
| PROJECT NUMBER    | 114747.2      |
| PROJECT MANAGER   | J. Chaffield  |
| PROJECT ARCHITECT | J. Chaffield  |
| DESIGN            | J. Chaffield  |
| DRAWN BY          | Author        |

SHEET NAME:

**TYPICAL EXTERIOR  
WALL DETAILS**

D SHEET NUMBER:

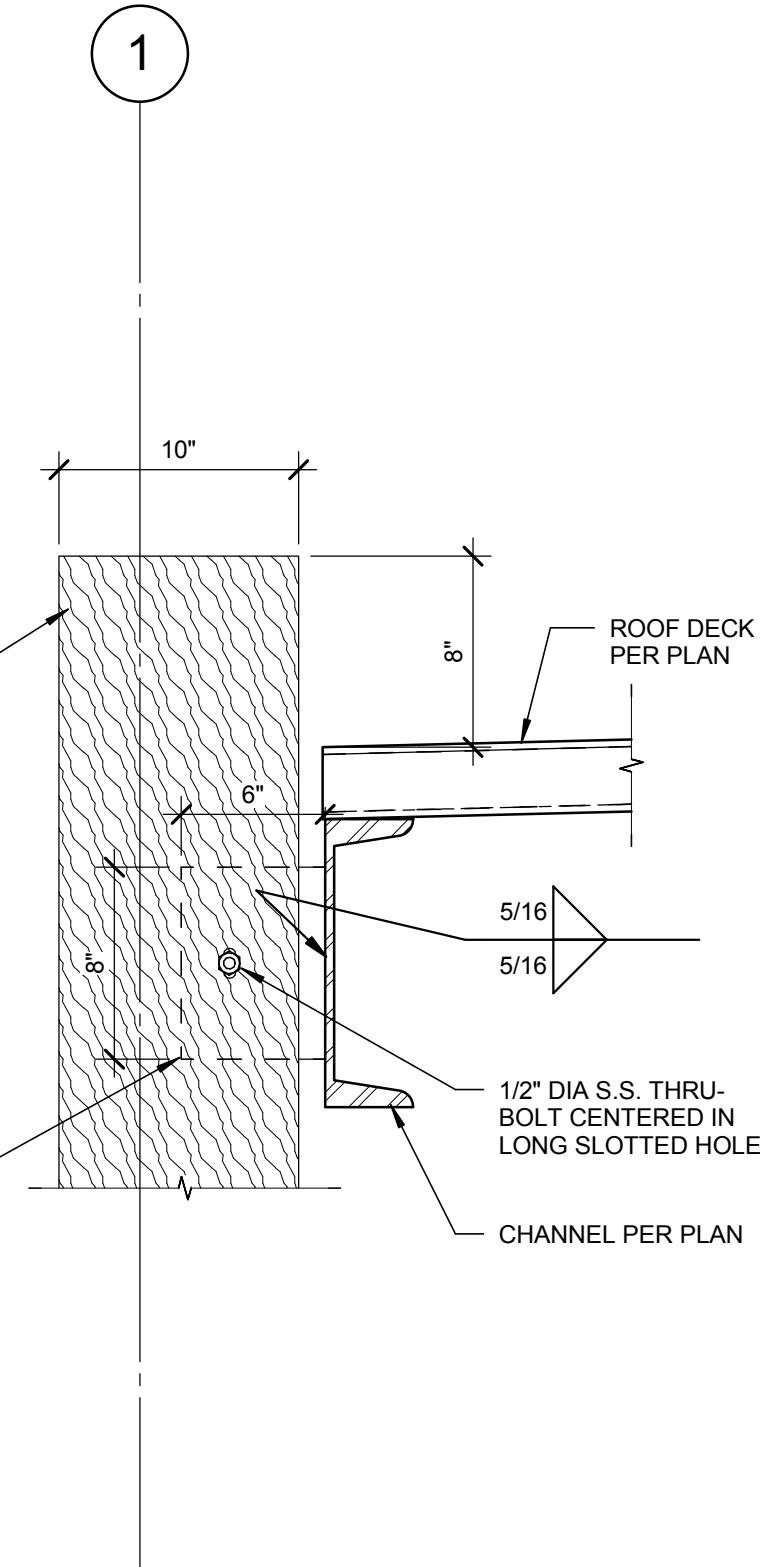
**S905**

A

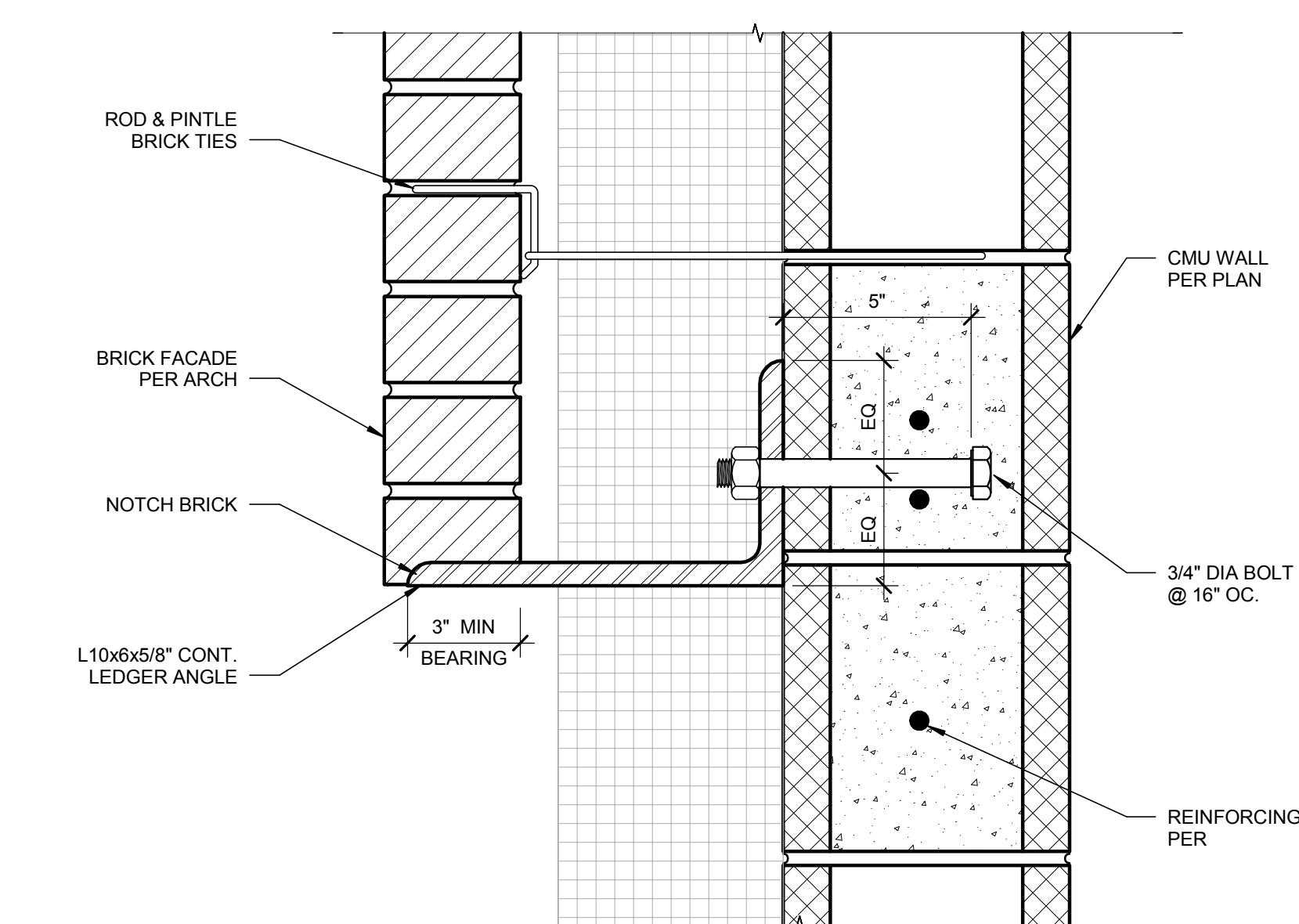
B

C

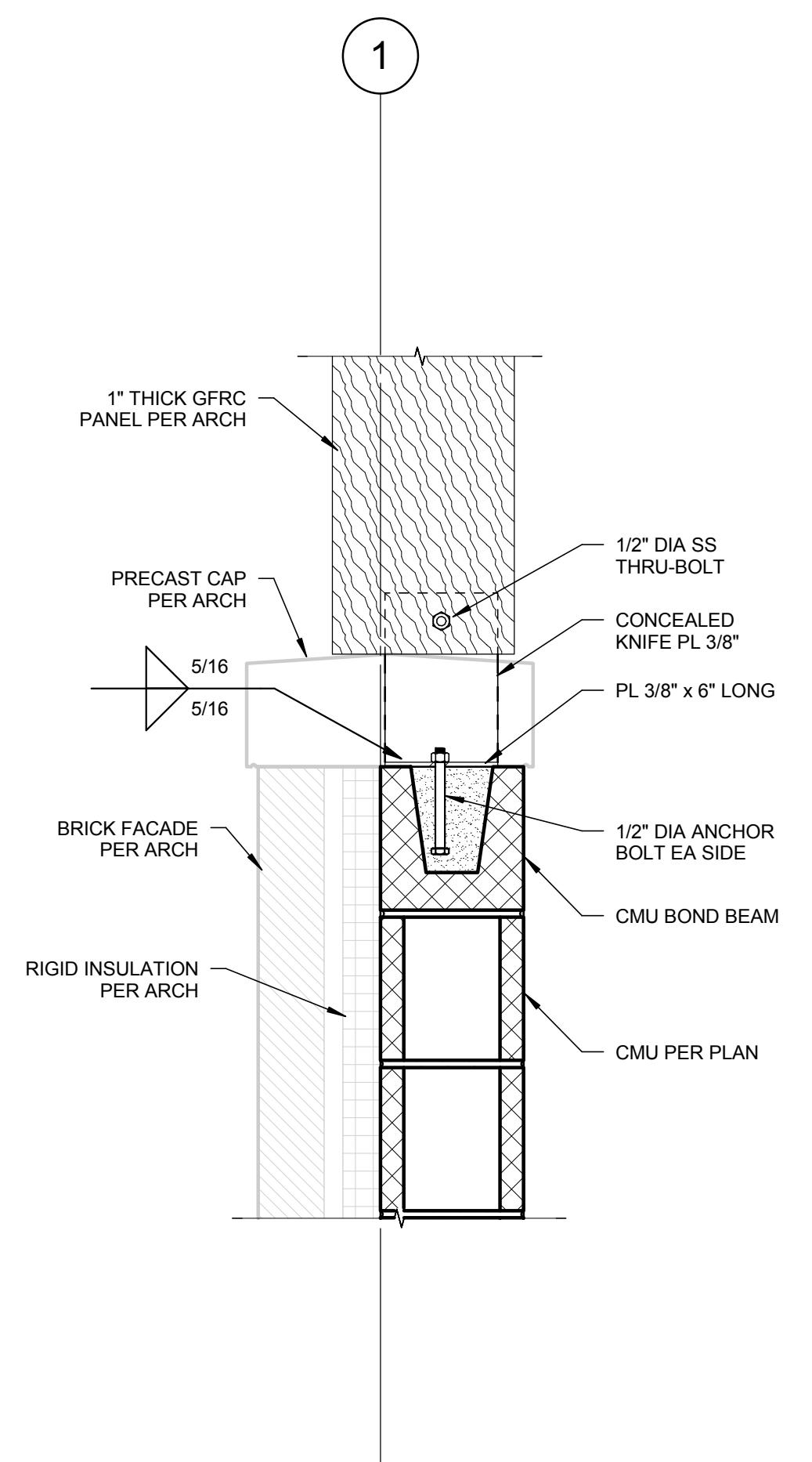
D



**2 SHADING DEVICE CONNECTION**  
SCALE : 1 1/2" = 1'-0"



**1 RELIEF ANGLE AT CMU WALL**  
SCALE : 3" = 1'-0"



**3 SHADING DEVICE CONNECTION**  
SCALE : 1 1/2" = 1'-0"

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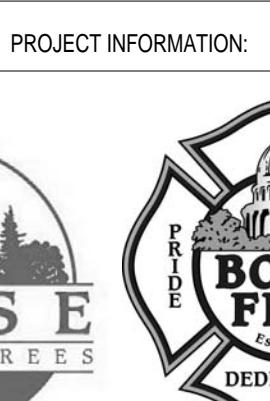
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project number: 15-125City of Boise Fire Station 8  
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PROJECT PHASE 75% CD

PROJECT NUMBER 15-28

PROJECT MANAGER J. Chatfield

PROJECT ARCHITECT J. Chatfield

DESIGN J. Chatfield

DRAWN BY LR

SHEET NAME:

MECHANICAL COVER  
SHEET

SHEET NUMBER:

MOOO

01.04.16

## MECHANICAL ABBREVIATIONS

|           |  |
|-----------|--|
| A/C or AC | AIR CONDITIONING   |
| AFF       | ABOVE FINISHED FLOOR   |
| AHU       | AIR HANDLING UNIT  |
| ASHRAE    | AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS |
| AV        | ACID VENT LINE   |
| AW        | ACID WASTE LINE  |
| BTU       | BRITISH THERMAL UNITS  |
| BTUh      | BTUS PER HOUR  |
| CA        | COMBUSTION AIR   |
| CD        | CONDENSATE DRAIN LINE  |
| CDR       | CONDENSER WATER RETURN   |
| CDS       | CONDENSER WATER SUPPLY   |
| CFM       | AIR FLOW RATE (CUBIC FEET PER MINUTE)                                      |
| CH        | COLD   |
| CW        | DOMESTIC COLD WATER  |
| CWR       | CHILLED WATER RETURN   |
| CWS       | CHILLED WATER SUPPLY   |
| DEG or °  | DEGREE   |
| DIA or "  | DIAMETER   |
| DB        | DRY BULB   |
| DHW       | DOMESTIC HOT WATER RETURN  |
| EA        | EXHAUST AIR  |
| EAT       | ENTERING AIR TEMPERATURE   |
| EER       | ENERGY EFFICIENCY RATIO  |
| ESP       | EXTERNAL STATIC PRESSURE   |
| EWT       | EXTENDED WATER TEMPERATURE   |
| F         | FIRE SPRINKLER LINE  |
| FCO       | FLOOR CLEANOUT   |
| FD        | FIRE DAMPER  |
| FL        | FLOOR  |
| FPM       | FEET PER MINUTE  |
| FS        | FLOW SWITCH  |
| FT        | FEET   |
| G         | LOW PRESSURE NATURAL GAS   |
| GA        | GAUGE  |
| GCO       | GRADE CLEANOUT   |
| GPM       | WATER FLOW RATE (GALLONS PER MINUTE)                                       |
| GHR       | DOMESTIC HOT WATER   |
| GWS       | GEOTHERMAL WATER SUPPLY  |
| HC        | HEATING COOLING  |
| HP        | HORSEPOWER   |
| HVAC      | HEATING, VENTILATING, AIR CONDITIONING                                     |
| HWT       | DOMESTIC HOT WATER   |
| HWR       | HEATING WATER RETURN   |
| HWS       | HEATING WATER SUPPLY   |
| IBC       | INTERNATIONAL BUILDING CODE  |
| IECC      | INTERNATIONAL ENERGY CONSERVATION CODE                                     |
| IFC       | INTERNATIONAL FIRE CODE  |
| IFGC      | INTERNATIONAL FUEL GAS CODE  |
| IMC       | INTERNATIONAL MECHANICAL CODE  |
| IPC       | INTERNATIONAL PLUMBING CODE  |
| KW        | KILOWATT   |
| KWH       | KILOWATT HOUR  |
| L         | LIQUID REFRIGERANT LINE  |
| LAT       | LEAVING AIR TEMPERATURE  |
| LAV       | LAVATORY   |
| LEED      | LEADERSHIP IN ENERGY & ENVIRONMENTAL DESIGN                                |
| LWT       | LEAVING WATER TEMPERATURE  |
| M         | MOTORIZED DAMPER   |
| MAX       | MAXIMUM  |
| MCA       | MINIMUM CIRCUIT AMPS   |
| MIN       | MINIMUM  |
| MOCP      | MAXIMUM OVERCURRENT PROTECTION   |
| MPG       | MEDIUM PRESSURE NATURAL GAS  |
| NC        | NOISE CRITERIA   |
| NFPA      | NATIONAL FIRE PROTECTION ASSOCIATION                                       |
| NTS       | NOT TO SCALE   |
| OD        | OVERFLOW DRAIN LINE  |
| OSA       | OUTSIDE AIR  |
| PD        | PRESSURE DROP  |
| PH        | PHASE  |
| PRV       | PRESSURE REDUCING VALVE  |
| PA        | RETURN AIR   |
| RD        | ROOF DRAIN LINE  |
| RPM       | REVOLUTIONS PER MINUTE   |
| RTU       | ROOFTOP UNIT   |
| S         | SUCTION REFRIGERANT LINE   |
| SA        | SUPPLY AIR   |
| SD        | STORM DRAIN LINE   |
| SEER      | SEASONAL ENERGY EFFICIENCY RATIO   |
| SFD       | SEASONAL SMOKING/FIRE DAMPER   |
| SIP       | SUPER INSULATION PRESSURE  |
| SYM       | SYMBOL   |
| T & P     | TEMPERATURE AND PRESSURE   |
| TEMP      | TEMPERATURE  |
| TESP      | TEMPERATURE SENSOR (DUCT OR PIPING)  |
| TYP       | TYPICAL  |
| UPC       | UNIFORM PLUMBING CODE  |
| U         | URINAL   |
| WB        | WET-BULB   |
| WC        | WATER CLOSET   |
| WCO       | WALL CLEANOUT  |
| WH        | WATER HEATER   |

NOTE: THIS IS A STANDARD LIST OF COMMONLY USED MECHANICAL ABBREVIATIONS. SOME OF THE ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED IN THIS DRAWING PACKAGE.

## MECHANICAL GENERAL NOTES

- ALL MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE (IMC) LATEST EDITION, AND ALL LOCAL & STATE CODES.
- ALL PLUMBING EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE IDAHO STATE PLUMBING CODE LATEST EDITION, AND ALL LOCAL & STATE CODES.
- ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
- MECHANICAL CONTRACTORS SHALL RECEIVE PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER BEFORE MAKING CUTS THROUGH ANY STRUCTURAL MEMBER.
- MECHANICAL CONTRACTORS SHALL COORDINATE INSTALLATION WITH CONSTRUCTION SUPERVISOR AND WITH ALL OTHER TRADES TO AVOID CONFLICTS.
- THE MECHANICAL CONTRACTORS SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWINGS BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS.
- SEE SHEET M401 FOR SCHEDULED CAPACITIES OF ALL MECHANICAL EQUIPMENT AND MATERIALS SPECIFIED.
- DOMESTIC WATER SERVICE IS PROVIDED WITH A DOUBLE CHECK BACKFLOW PREVENTER.
- ALL MECHANICAL EQUIPMENT TO BE PROPOSED MUST BE ON THE APPROVED LIST PRIOR TO SUBMITTALS. ALL APPROVED MANUFACTURERS MUST BE CAPABLE OF MEETING THE REQUIREMENTS OF THE SPECIFIED EQUIPMENT.
- RUNOUT AND HOOKUP SIZES TO INDIVIDUAL PLUMBING FIXTURE CAN BE FOUND ON THE PLUMBING FIXTURE SCHEDULES, SHEET P401.
- PROVIDE REMOTE CEILING ACCESS BALANCE DAMPERS WITH CONCEALED CHROME PLATE COVERS FOR BALANCE DAMPERS LOCATED ABOVE HARD CEILINGS.
- PAINT ALL VTRS, FLUES, EXHAUST CAPS, AND OTHER MECHANICAL ITEMS ON THE ROOF TO MATCH THE ROOF COLOR.
- INSULATED FLEXIBLE DUCTWORK MAY BE USED FOR RUNOUTS TO GRILLES AND DIFFUSERS, IN LENGTHS OF 6'-0" OR LESS.
- MAINTAIN MINIMUM OF 10'-0" DISTANCE BETWEEN ALL FRESH AIR INTAKES AND EXHAUST OR GAS FLUE DISCHARGES.
- THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL BACKFLOW DEVICES TO BE INSPECTED BY A CERTIFIED BACKFLOW TECHNICIAN BEFORE THE USE OF THE BUILDING POTABLE WATER SYSTEM.
- LOCATE ACCESS HATCHES SO AS TO PROVIDE OPTIMUM SERVICEABILITY TO EQUIPMENT AND/OR VALVING. SEE ARCHITECTURAL SPECIFICATION FOR TYPE AND COLOR. COORDINATE LOCATION WITH STRUCTURAL & LIGHTING.
- WHENEVER THERE IS A DISCREPANCY BETWEEN THE RUNOUT DUCT SIZE SHOWN ON THE PLANS AND THAT SHOWN IN THE SCHEDULE, ALWAYS USE THE LARGER OF THE TWO DUCT SIZES.

## MECHANICAL AND PLUMBING DRAWINGS LEGEND

|  |  |  |                                    |
|--|--|--|------------------------------------|
|  | FLEXIBLE DUCTWORK  |  | THREE WAY CONTROL VALVE            |
|  | DUCTWORK   |  | TWO WAY CONTROL VALVE              |
|  | DUCTWORK BREAK   |  | PRESSURE REDUCING VALVE            |
|  | DUCTWORK OR PIPING RISE  |  | GATE VALVE                         |
|  | CONCENTRIC SQUARE TO ROUND TRANSITION                          |  | REDUCER                            |
|  | MOTORIZED DAMPER   |  | GLOBE VALVE                        |
|  | MANUAL VOLUME DAMPER   |  | BALL VALVE                         |
|  | SPIN-FIT FITTING W/ AIR EXTRACTOR AND HAND DAMPER              |  | BUTTERFLY VALVE                    |
|  | HIGH EFFICIENCY FITTING W/ HAND DAMPER                         |  | BALANCE VALVE                      |
|  | SWITCH   |  | CHECK VALVE                        |
|  | THERMOSTAT   |  | FLOOR CLEANOUT                     |
|  | HUMIDISTAT   |  | WALL CLEANOUT                      |
|  | TEMPERATURE SENSOR   |  | GRADE CLEANOUT                     |
|  | CARBON DIOXIDE SENSOR  |  | WATER HAMMER ARRESTOR              |
|  | CARBON MONOXIDE SENSOR   |  | FLOOR DRAIN                        |
|  | NITROUS OXIDE SENSOR   |  | FLOOR SINK                         |
|  | DUCT SMOKE DETECTOR  |  | GAS PRESSURE REGULATOR W/ GAS COCK |
|  | COMBINATION SMOKE/FIRE DAMPER                                  |  | PRESSURE RELIEF VALVE              |
|  | FIRE DAMPER  |  | VENT-THROUGH-ROOF                  |
|  | SMOKE DAMPER   |  | VENT                               |
|  | EQUIPMENT CALLOUT  |  | SOIL, WASTE, OR SANITARY SEWER     |
|  | TURNING VANES  |  | ACID WASTE LINE                    |
|  | INTAKE OR EXHAUST  |  | ACID VENT LINE                     |
|  | DIRECTION OF AIRFLOW   |  | STORM DRAIN                        |
|  | SUPPLY DIFFUSER  |  | ROOF DRAIN LINE                    |
|  | RETURN GRILLE  |  | OVERFLOW DRAIN LINE                |
|  | EXHAUST GRILLE   |  | CONDENSATE DRAIN LINE              |
|  | FLOOR GRILLE   |  | DOMESTIC COLD WATER (CW)           |
|  | CEILING EXHAUST FAN  |  | DOMESTIC HOT WATER (HW)            |
|  | TEMPERATURE GAUGE  |  | DOMESTIC HOT WATER RETURN (HWR)    |
|  | PRESSURE GAUGE (LIQUID FILLED W/ ISOLATION VALVE)              |  | TEMPERED WATER (TW)                |
|  | TEMPERATURE SENSOR (DUCT OR PIPING)                            |  | MEDIUM PRESSURE NATURAL GAS        |
|  | FLOW SWITCH  |  | LOW PRESSURE NATURAL GAS           |
|  | STAINLESS STEEL BRAIDED FLEX CONNECTION                        |  | FIRE SPRINKLER LINE                |
|  | ELASTOMETRIC FLEX CONNECTOR                                    |  | GEOTHERMAL WATER SUPPLY            |
|  | SUCTION DIFFUSER   |  | GEOTHERMAL WATER RETURN            |
|  | Y TYPE STRAINER (1 1/2" OR LARGER PROVIDED W/ BLOW DOWN VALVE) |  | CHILLED WATER SUPPLY               |
|  | FLOW DIRECTION   |  | CHILLED WATER RETURN               |
|  | DEMOLITION / EQUIPMENT TO BE REMOVED                           |  | CONDENSER WATER SUPPLY             |
|  | NEW TO EXISTING CONNECTION POINT                               |  | CONDENSER WATER RETURN             |
|  | EXISTING   |  | HEATING WATER SUPPLY               |
|  | FUTURE   |  | HEATING WATER RETURN               |
|  | NEW  |  | LIQUID REFRIGERANT LINE            |
|  | REDUCED PRESSURE BACKFLOW PREVENTER                            |  | SUCTION REFRIGERANT LINE           |
|  | DOUBLE CHECK BACKFLOW PREVENTER                                |  | SLOPE PIPE IN DIRECTION OF ARROW   |
|  | UNION  |  | PIPE ANCHOR                        |
|  | AIR VENT   |  | PIPE GUIDE                         |
|  | TRIPLE DUTY VALVE  |  | CAP                                |

NOTE: THIS IS A LIST OF COMMONLY USED MECHANICAL AND PLUMBING SYMBOLS. SOME OF THE SYMBOLS SHOWN ABOVE MAY NOT BE USED IN THIS DRAWING PACKAGE.

## ENERGY CODE COMPLIANCE

- A. COMPLIANCE WITH THE LATEST ADOPTED EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE IS REQUIRED FOR THIS PROJECT. THESE NOTES COVER MANDATORY REQUIREMENTS OF THE CODE. ADDITIONAL REQUIREMENTS ARE NOTED ON THE DRAWINGS AND IN THE SPECIFICATIONS.
- B. MINIMUM REQUIREMENTS FOR SUPPLY AND RETURN DUCTWORK INSULATION:
- R-5: DUCTS LOCATED IN UNCONDITIONED SPACES (SPACE NEITHER HEATED NOR COOLED SUCH AS ABOVE CEILING SPACES, WALL SPACES, DUCT CHASES, SOFFITS, ATTICS, CRAWL SPACES, UNHEATED BASEMENTS, AND UNHEATED GARAGES).
  - R-8: DUCTS LOCATED OUTSIDE OF THE BUILDING'S INSULATION ENVELOPE (SUCH AS ABOVE THE ATTIC INSULATION).
- TYPICAL INSULATION THICKNESS REQUIRED TO MEET THESE REQUIREMENTS:
1. FIBERGLASS DUCT WRAP: R-5 (2"), R-8 (3").
  2. FIBERGLASS DUCT LINER: R-5 (1 1/2"), R-8 (2").
- C. CONTRACTOR SHALL VERIFY WITH THE MANUFACTURER, THE R-VALUES OF THE ACTUAL INSULATION USED. R-VALUES SHALL BE INSTALLED VALUES.
- D. WHERE DUCTS USED FOR COOLING ARE EXTERNALLY INSULATED, THE INSULATION SHALL BE COVERED WITH A VAPOR RETARDER HAVING A MAXIMUM PERMEANCE OF 0.05 PERM OR ALUMINUM FOIL HAVING A MINIMUM THICKNESS OF 2 MILS. INSULATION HAVING A PERMEANCE OF 0.05 PERMS OR LESS SHALL NOT BE REQUIRED TO BE

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project number: 15-125

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**City of Boise Fire Station 8**  
3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

|                   |              |
|-------------------|--------------|
| PROJECT PHASE     | 75% CD       |
| PROJECT NUMBER    | 15-28        |
| PROJECT MANAGER   | J. Chatfield |
| PROJECT ARCHITECT | J. Chatfield |
| DESIGN            | J. Chatfield |
| DRAWN BY          | LR           |

SHEET NAME:

**MECHANICAL  
COMCHECK**

|               |
|---------------|
| SHEET NUMBER: |
| M001          |

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REVISIONS:

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| DESIGN            | J. Chatfield |
| DRAWN BY          | LR           |

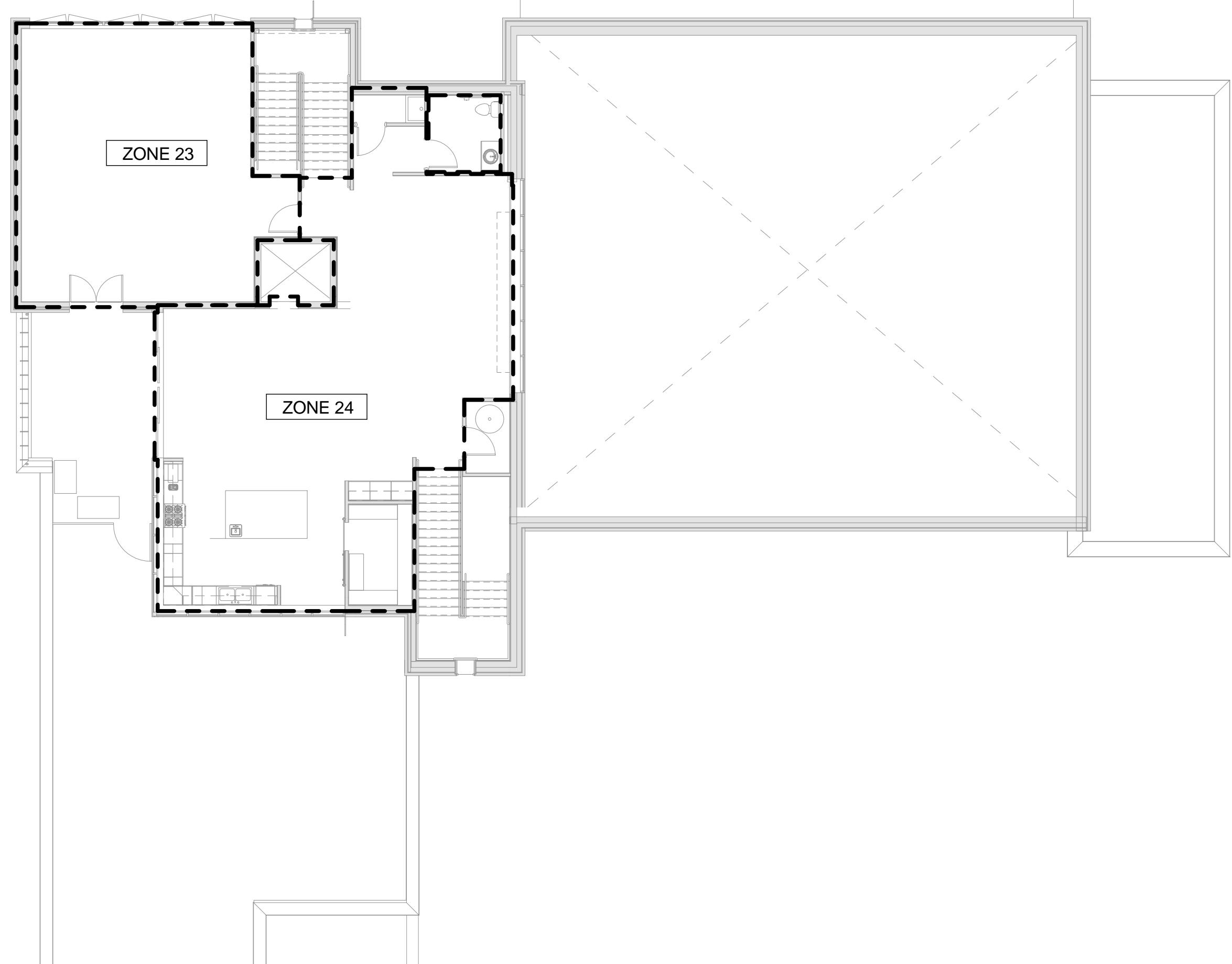
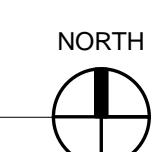
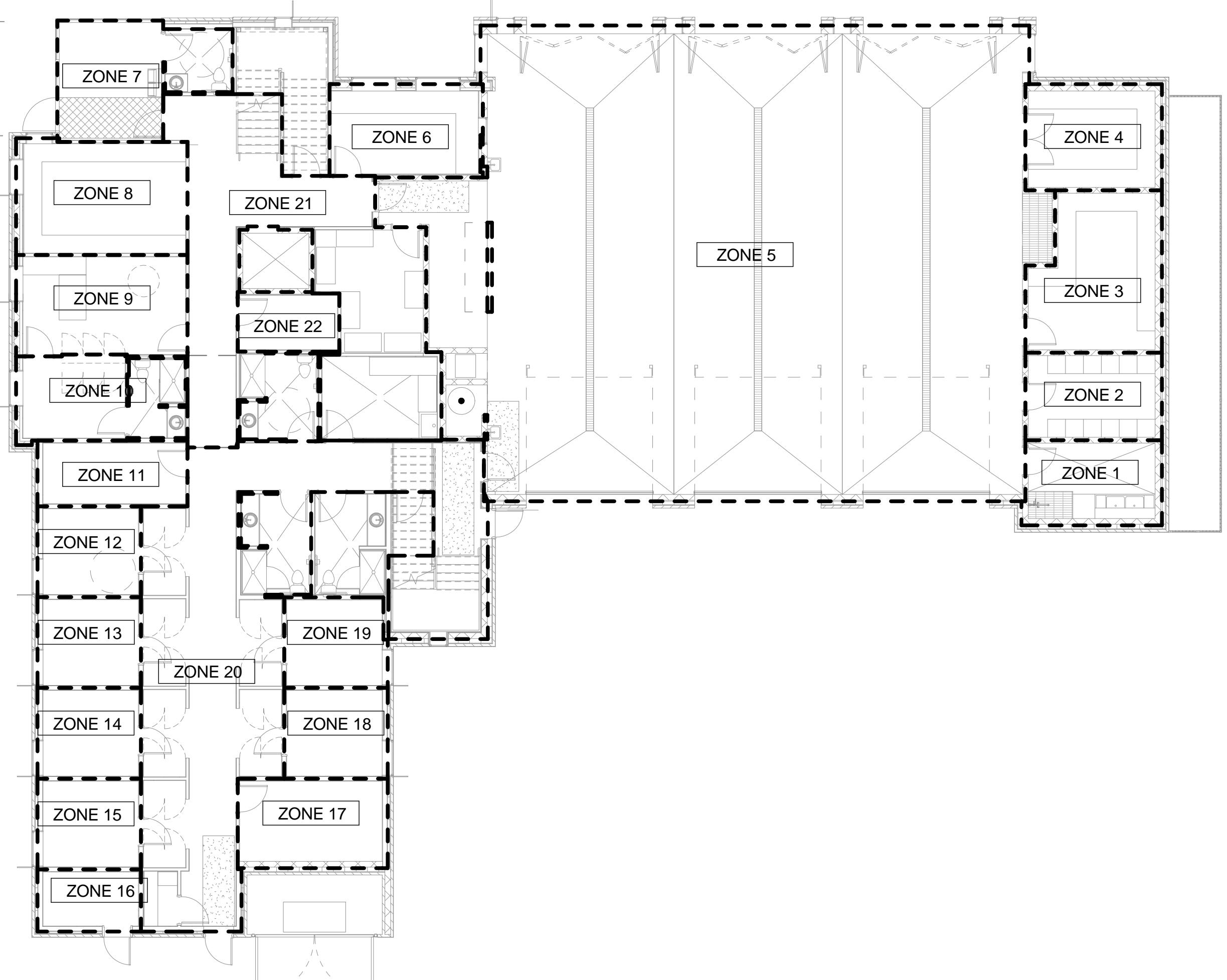
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**MECHANICAL ZONING  
PLANS**

|               |  |
|---------------|--|
| SHEET NUMBER: |  |
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**M002**

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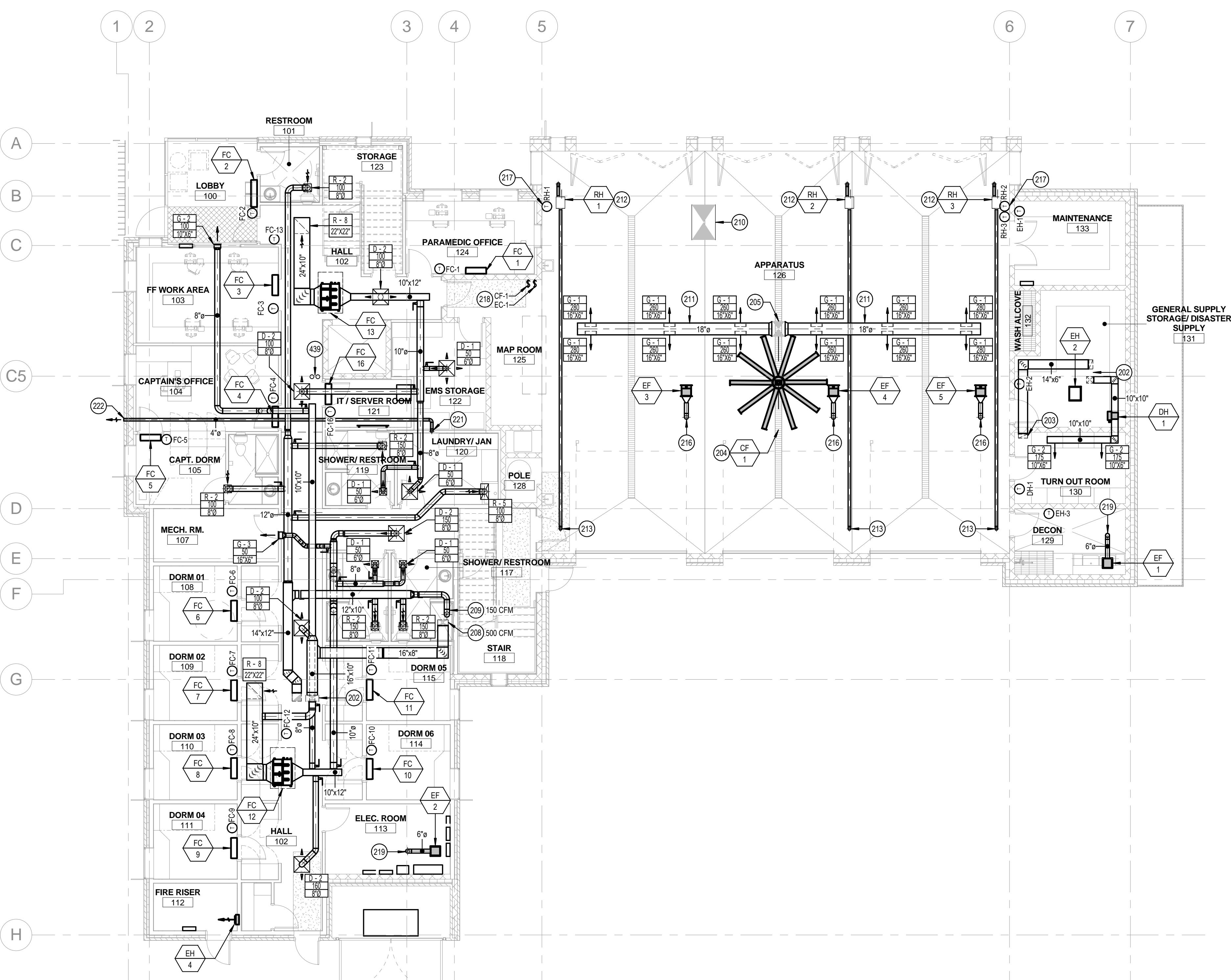


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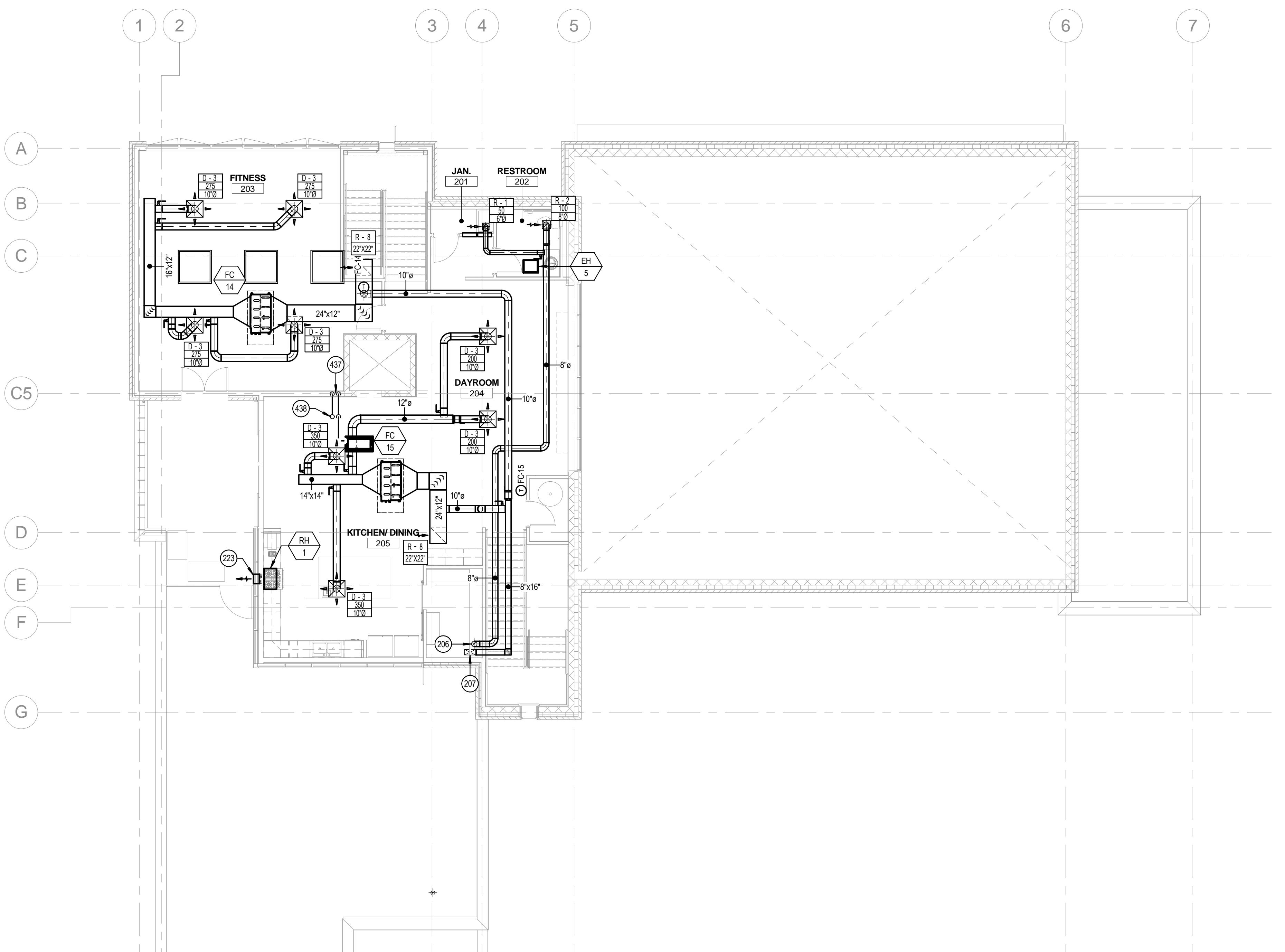
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## KEYED NOTES

- 206 EXHAUST DUCT DOWN IN CHASE TO FIRST FLOOR CEILING SPACE. REFER TO 1ST FLOOR HVAC PLAN FOR CONTINUATION.  
 207 OUTSIDE AIR SUPPLY DUCT UP FROM BELOW. REFER TO 1ST FLOOR HVAC PLAN FOR CONTINUATION.  
 223 ROUTE 3-1/4"X14" EXHAUST DUCT THROUGH EXTERIOR WALL AND TERMINATE WITH WALL CAP.  
 437 REFRIGERANT PIPING UP FROM BELOW.  
 438 ROUTE REFRIGERANT UP THROUGH ROOF TO ROOF MOUNTED CONDENSING UNIT. REFER TO HVAC ROOF PLAN.



2ND FLOOR HVAC PLAN  
1/8" = 1'-0"



## 2ND FLOOR HVAC PLAN

M102

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project number: 15-125City of Boise Fire Station 8  
3575 W. Overland Rd. Boise, ID 83705

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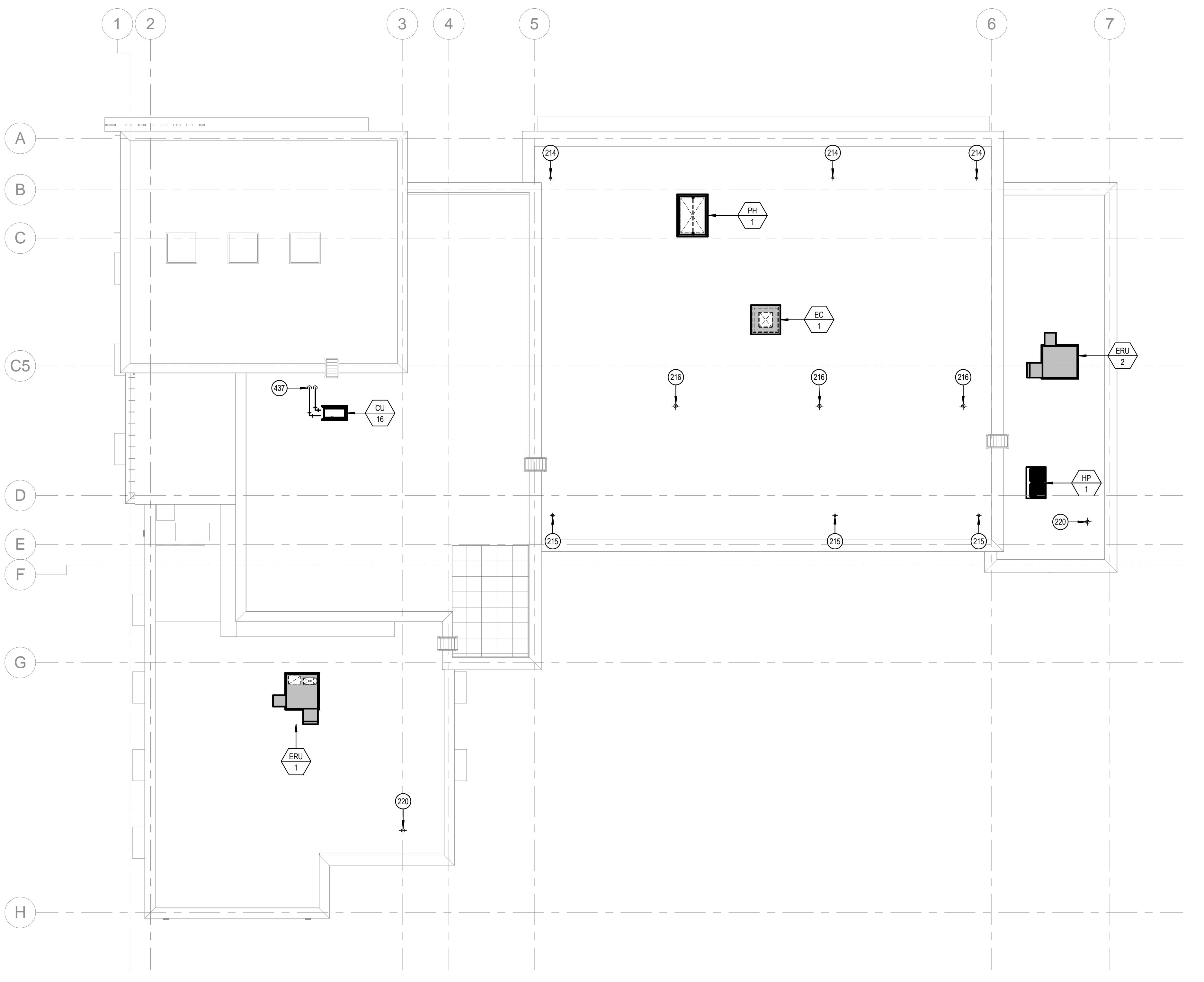
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| PROJECT MANAGER   | J. Chatfield |
| PROJECT ARCHITECT | J. Chatfield |
| DESIGN            | J. Chatfield |
| DRAWN BY          | LR           |

SHEET NAME:

|   |               |
|---|---------------|
| D | SHEET NUMBER: |
|   |               |

M102



## KEYED NOTES

- 214 COMBUSTION AIR INTAKE TO GAS-FIRED RADIANT TUBE HEATER BELOW.
- 215 TYPE 'B' DOUBLE WALL VENT UP FROM BELOW. TERMINATE WITH APPROVED VENT CAP.
- 216 MOUNT EXHAUST FAN ON UNISTRUT PER ARCHITECTURAL PLANS. ROUTE 6'6" TYPE 'B' DOUBLE WALL VENT FROM FAN OUTLET LOCATION UP THROUGH ROOF FOR EXHAUSTING OF VEHICLE EXHAUST SYSTEM. TERMINATE WITH ROOF CURB AND CAP. VEHICLE EXHAUST SYSTEM UPSTREAM OF EXHAUST FAN BY CITY OF BOISE. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND FOR FURTHER REQUIREMENTS.
- 220 EXHAUST DUCT UP FROM BELOW. TERMINATE WITH ROOF CURB AND CAP.
- 437 REFRIGERANT PIPING UP FROM BELOW.

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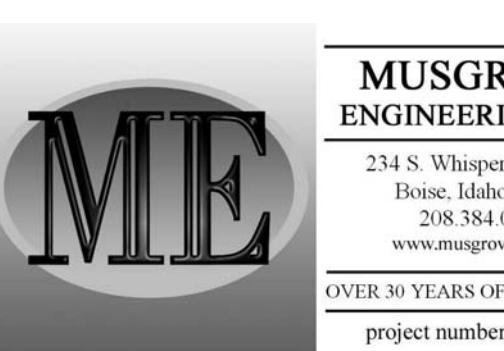
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|-------------------|--------------|
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| PROJECT NUMBER    | 15-28        |
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| PROJECT ARCHITECT | J. Chatfield |
| DESIGN            | J. Chatfield |
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SHEET NAME:

HVAC ROOF PLAN

SHEET NUMBER:

**M103**

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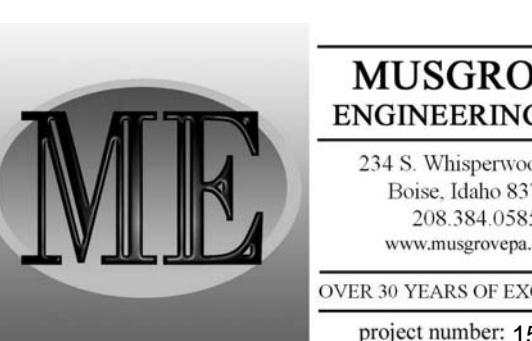
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PROJECT PHASE:

75% CD

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| PROJECT ARCHITECT | J. Chatfield |
| DESIGN            | J. Chatfield |
| DRAWN BY          | LR           |

SHEET NAME:

HVAC DETAILS

SHEET NUMBER:

M301

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- NOTES:
- FOR TAKE-OFFS LARGER THAN 12" DIAMETER, USE A FACTORY MANUFACTURED DAMPER LOUVERS & DAMPERS, INC. MODEL CD-600 WITH A LOCKING HAND QUADRANT OR EQUAL.
  - ROD CONTINUOUS ON 2" W.G. CLASS AND ON ALL DAMPERS OVER 12" DIAMETER.
  - BLADE 22 GAGE (MIN.), BUT NOT LESS THAN TWO GAGES MORE THAN THE DUCT GAGE.
  - PROVIDE REMOTE CEILING OPERATOR WHERE DAMPER IS INACCESSIBLE.
  - FOR DUCTS OVER 12" HIGH USE MULTIPLE BLADE DAMPERS (SEE FIG. C).
  - ALTERNATE MANUFACTURERS: AMERICAN WARMING, SAFE-AIR/DOWCO, J & J LOUVERS & DAMPERS, RUSKIN, NAILOR, ARROW UNITED, POTTORFF & CESCO.

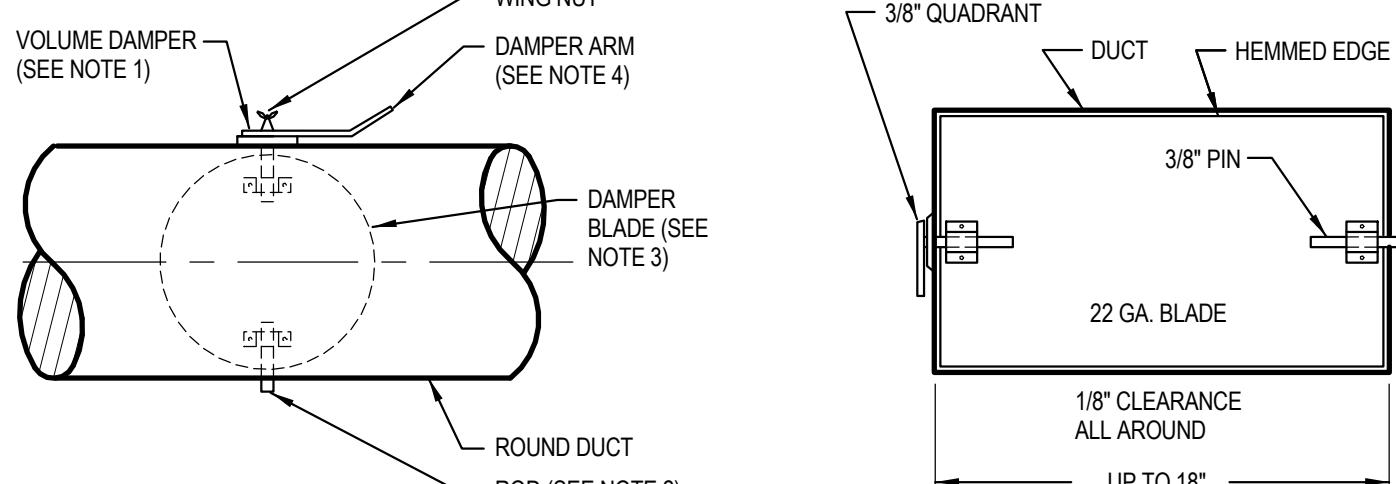


FIG. A

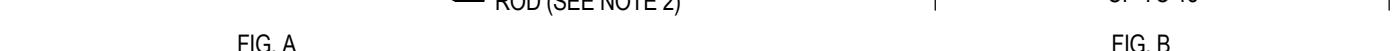


FIG. B

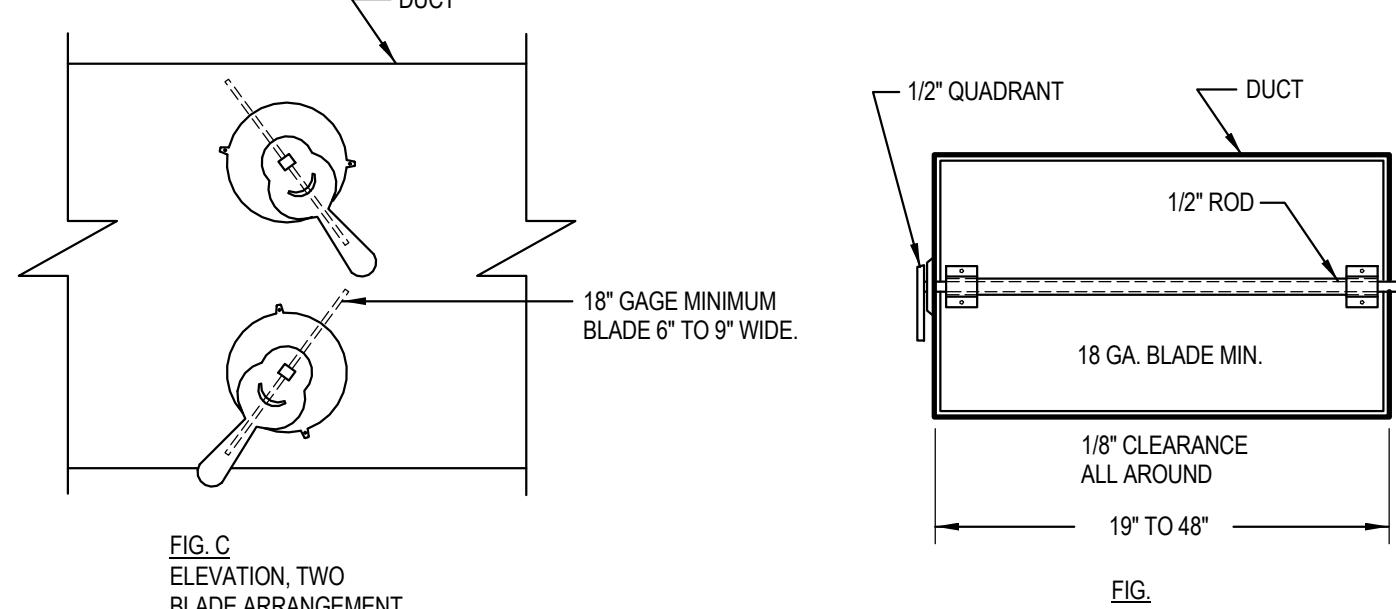
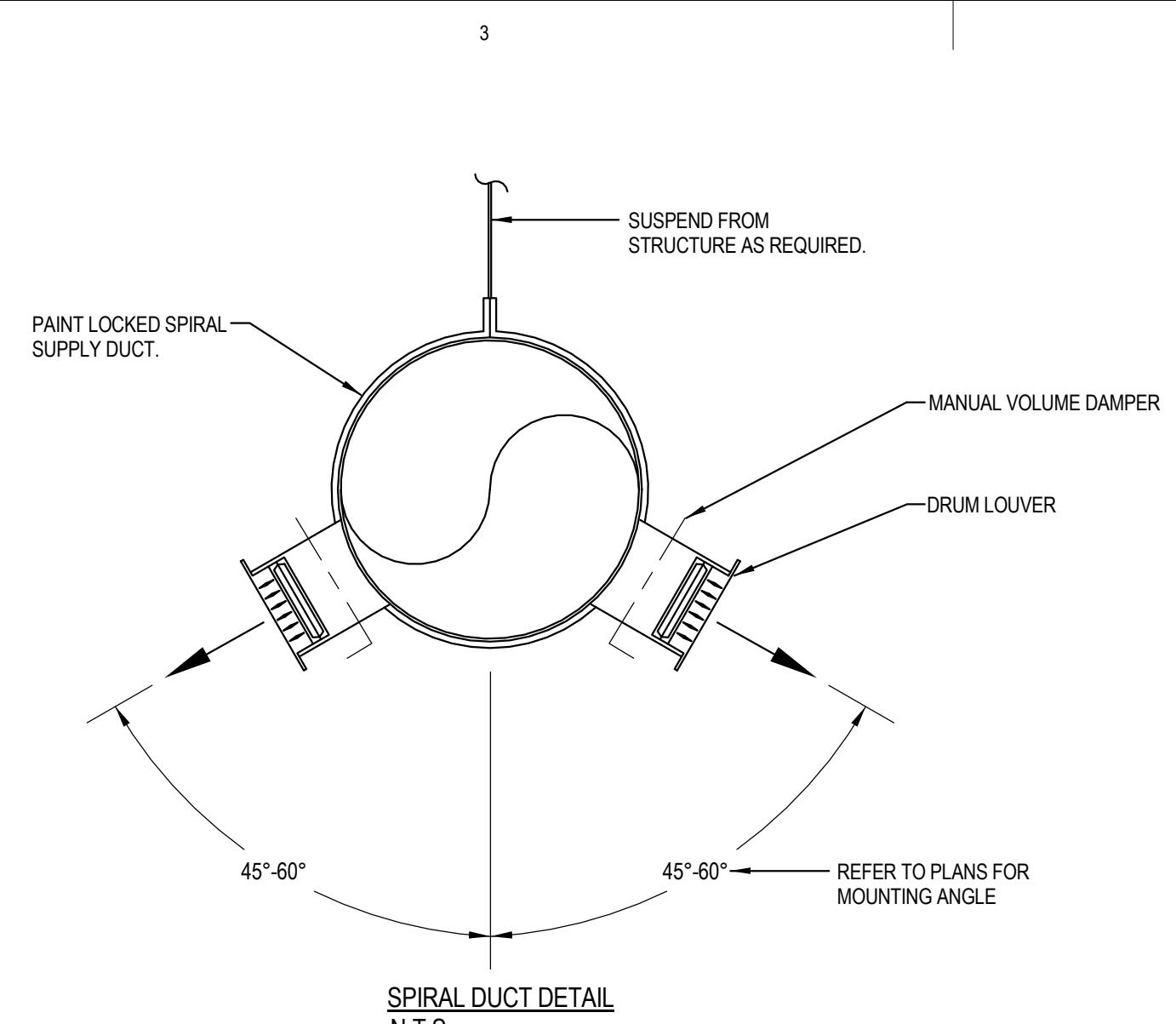
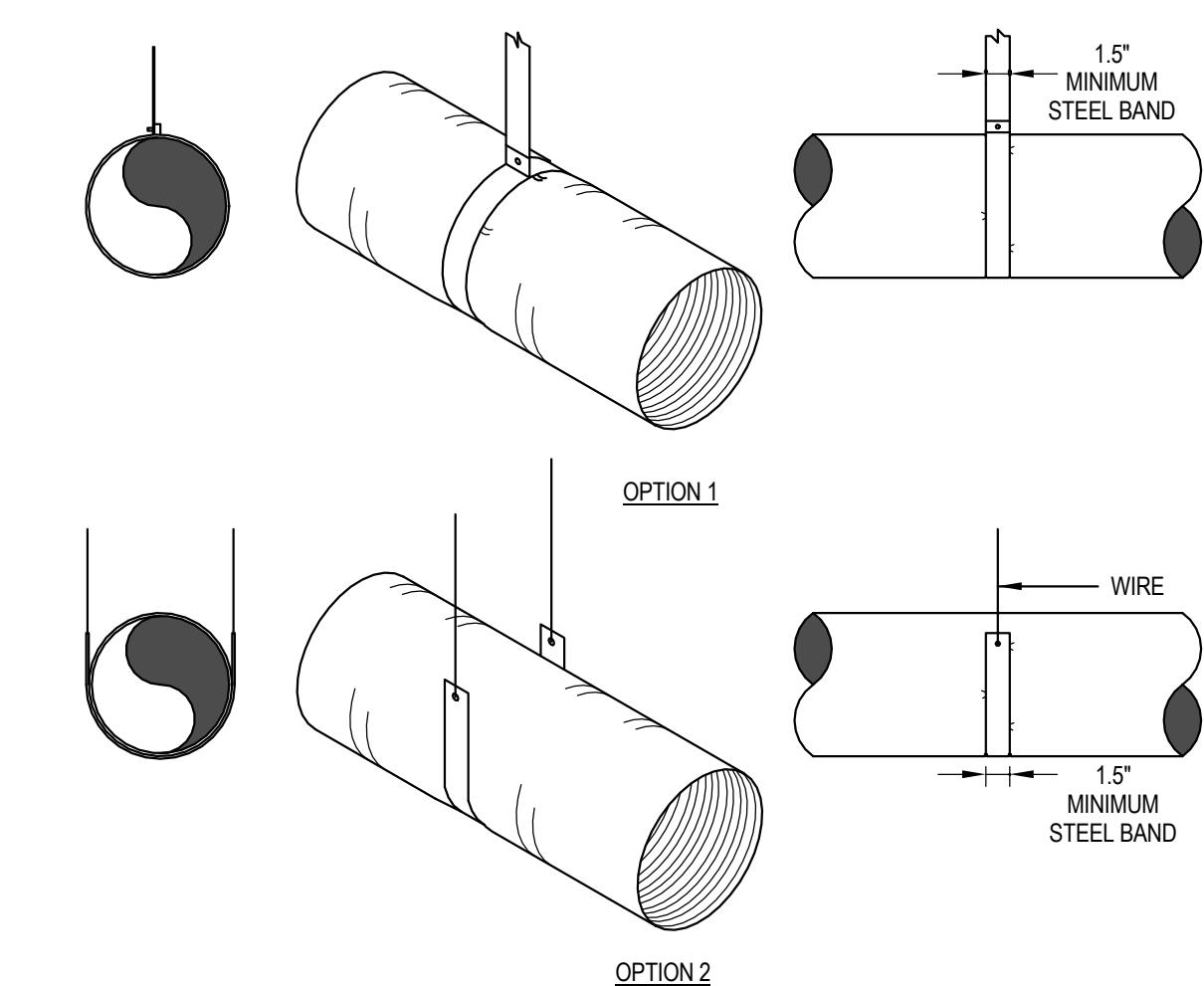


FIG. C

ELEVATION, TWO  
BLADE ARRANGEMENT

FIG. D

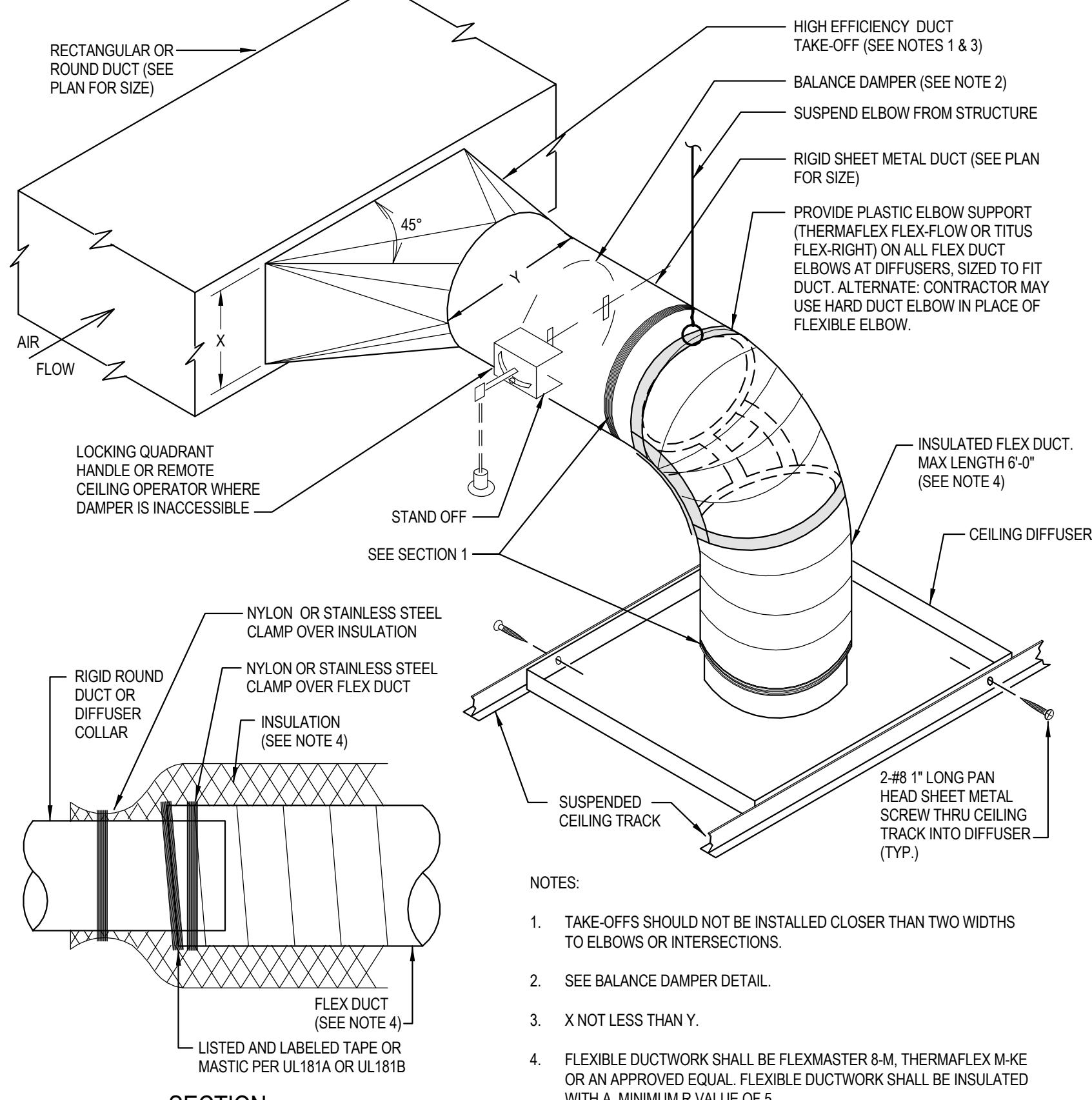
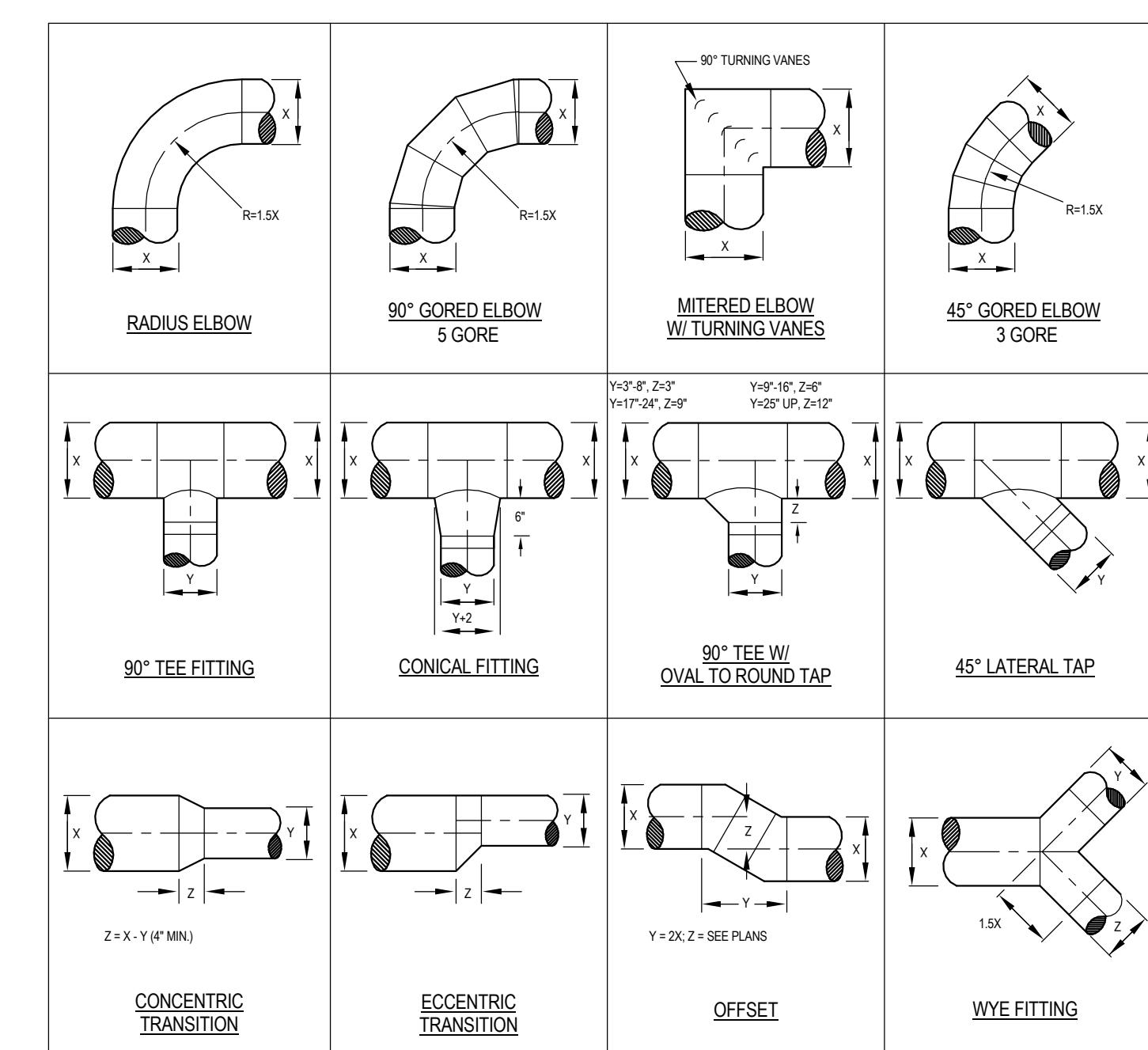
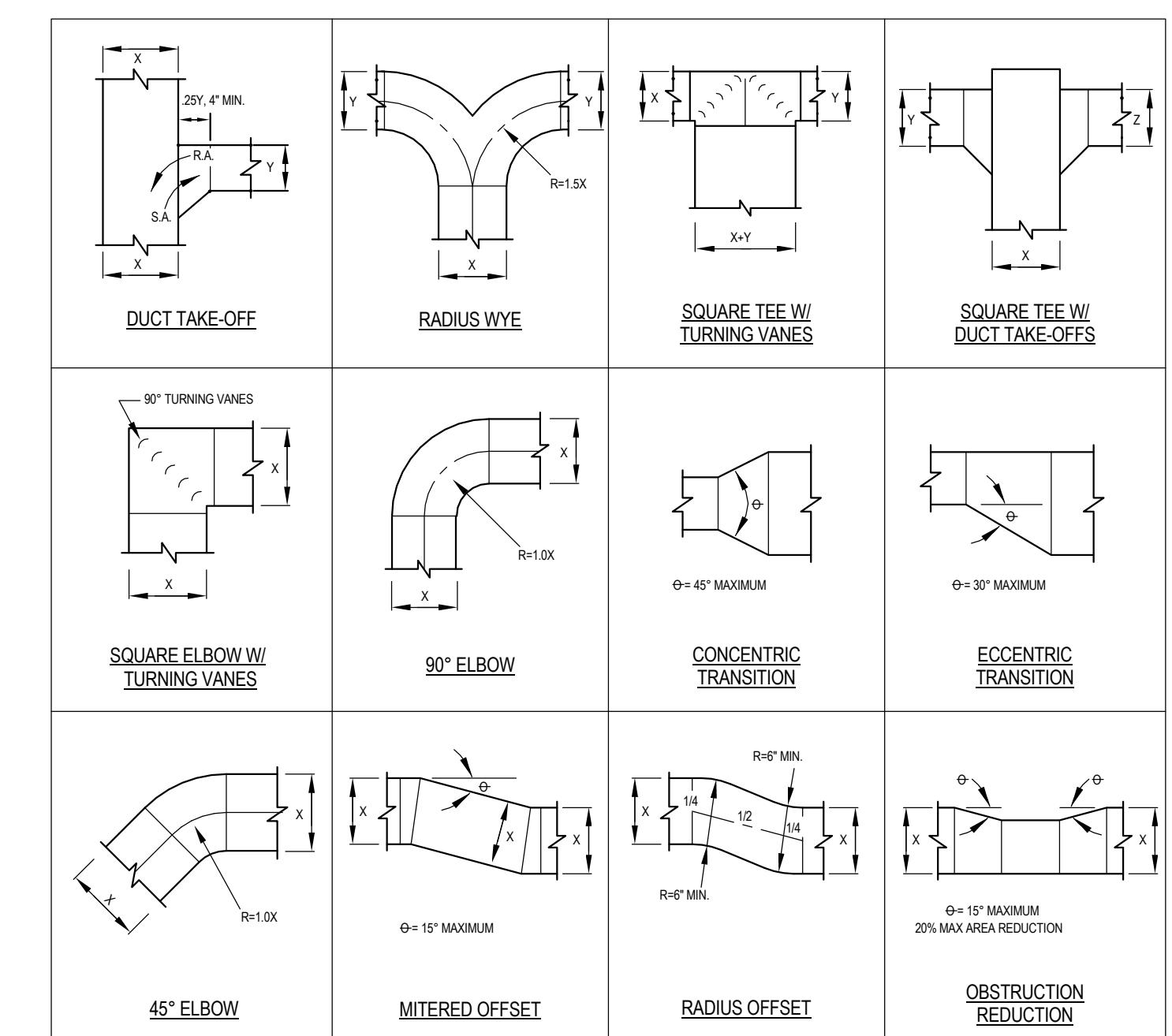
SPIRAL DUCT DETAIL  
N.T.S.

- NOTES:
- SUPPORT SYSTEM SHALL NOT DAMAGE, CRIMP, OR INHIBIT DUCT FREE AREA IN ANY WAY.
  - FLEX DUCT MUST NOT EXCEED 6'-0" FROM CONNECTION TO TERMINATION.
  - MAXIMUM LENGTH BETWEEN SUPPORTS MUST NOT EXCEED 3'-0" O.C.
  - ATTACH BANDS OR WIRES TO SUPPORT STRUCTURE ABOVE.
  - FLEXIBLE DUCTWORK SHALL BE FLEXMASTER 8-M, THERMAFLEX MK-E OR AN APPROVED EQUAL.
  - FLEXIBLE DUCTWORK SHALL BE INSULATED WITH A MINIMUM R-VALUE OF 5.
  - FLEXIBLE DUCT IS FOR INDOOR USE ONLY; DO NOT INSTALL OR STORE PRODUCT WHERE EXPOSURE TO DIRECT SUNLIGHT CAN OCCUR. PROLONGED EXPOSURE TO SUNLIGHT MAY CAUSE DEGRADATION OF VAPOR BARRIER.
  - TERMINAL DEVICES SHALL BE SUPPORTED INDEPENDENTLY OF THE FLEXIBLE DUCT.
  - REPAIR TORN OR DAMAGED VAPOR BARRIER/JACKET WITH DUCT TAPE LISTED AND LABELED TO UL 181B; IF INTERNAL CORE IS PENETRATED, REPLACE FLEXIBLE DUCT.
  - AVOID BENDING DUCT ACROSS SHARP CORNERS OR INCIDENTAL CONTACT WITH METAL FIXTURES, PIPES OR CONDUITS.
  - SHALL NOT BE INSTALLED WITHIN 4 INCHES OF HOT EQUIPMENT (FURNACES, BOILERS, STEAM PIPES, ETC.) THAT IS ABOVE 250° F.
  - SHALL NOT BE INSTALLED IN CONCRETE, BURIED BELOW GRADE OR IN CONTACT WITH THE GROUND.

① BALANCE DAMPER DETAIL  
NTS② EXPOSED SPIRAL DUCT SUPPORT DETAIL  
NTS③ FLEXIBLE DUCTWORK SUPPORT DETAIL  
NTS

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D

④ HIGH EFFICIENCY TAKE-OFF DETAIL  
12" = 1'-0"⑤ ROUND DUCT FITTING DETAIL  
NTS⑥ RECTANGULAR DUCT FITTING DETAIL  
NTS

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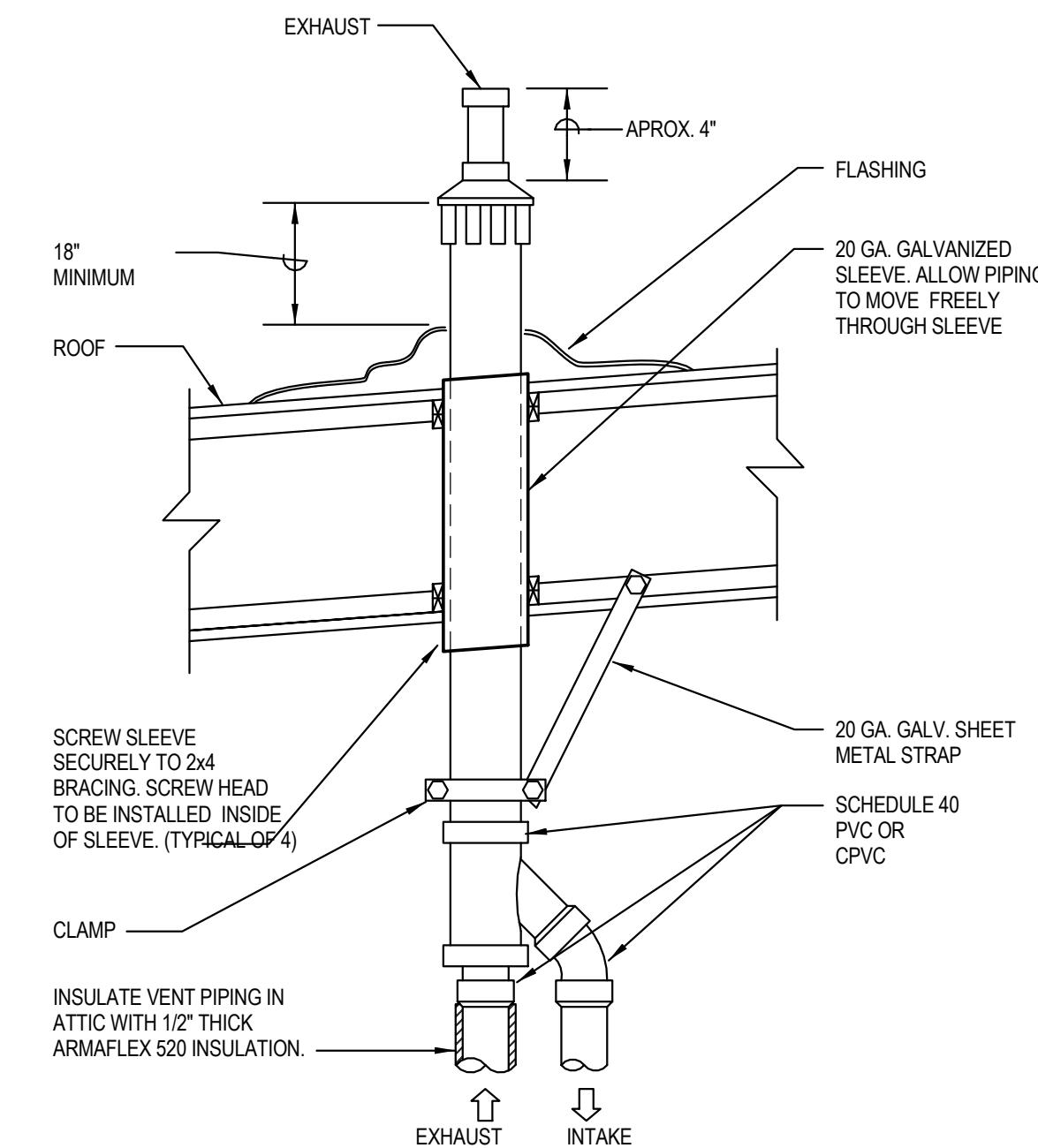
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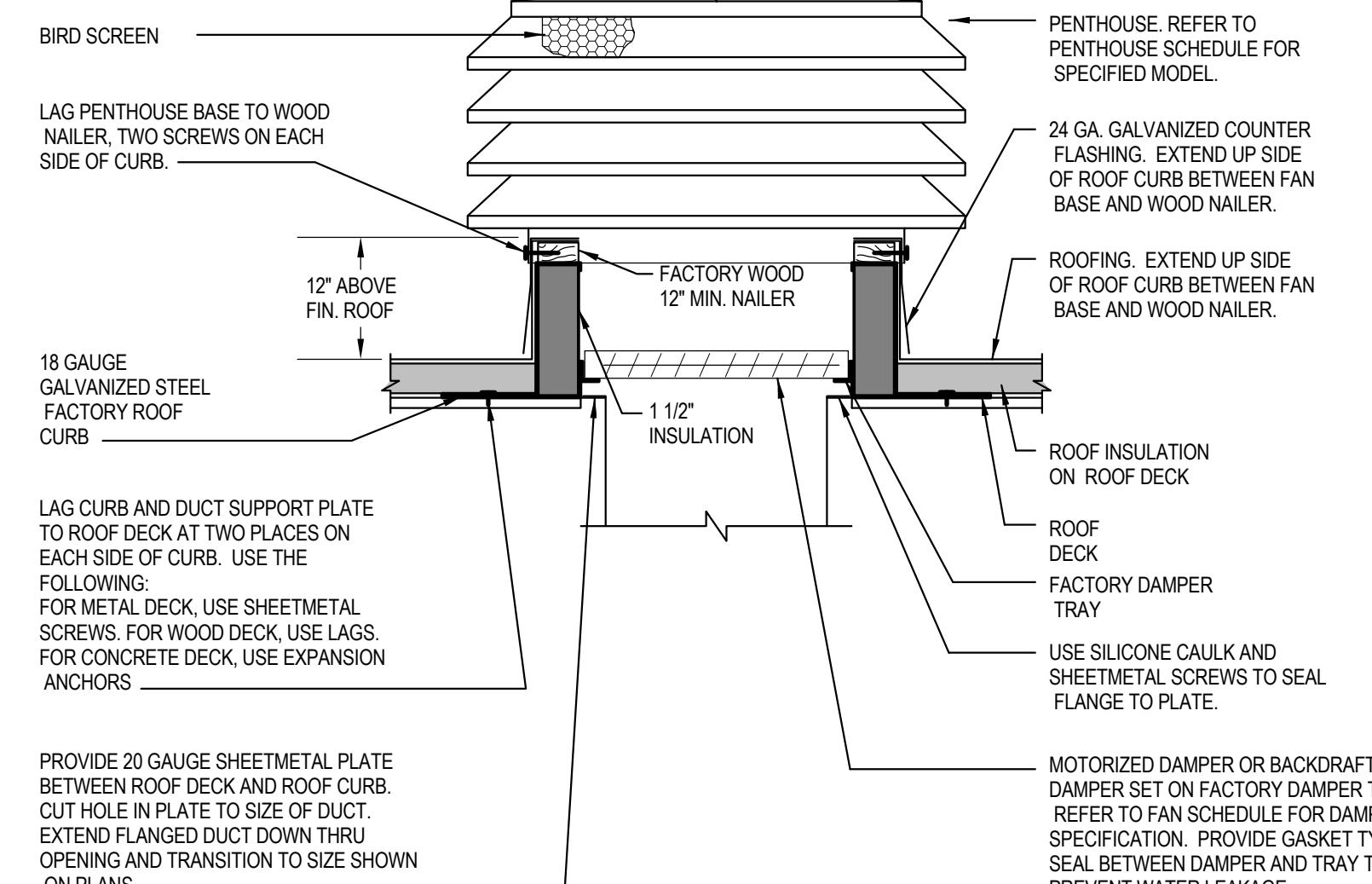
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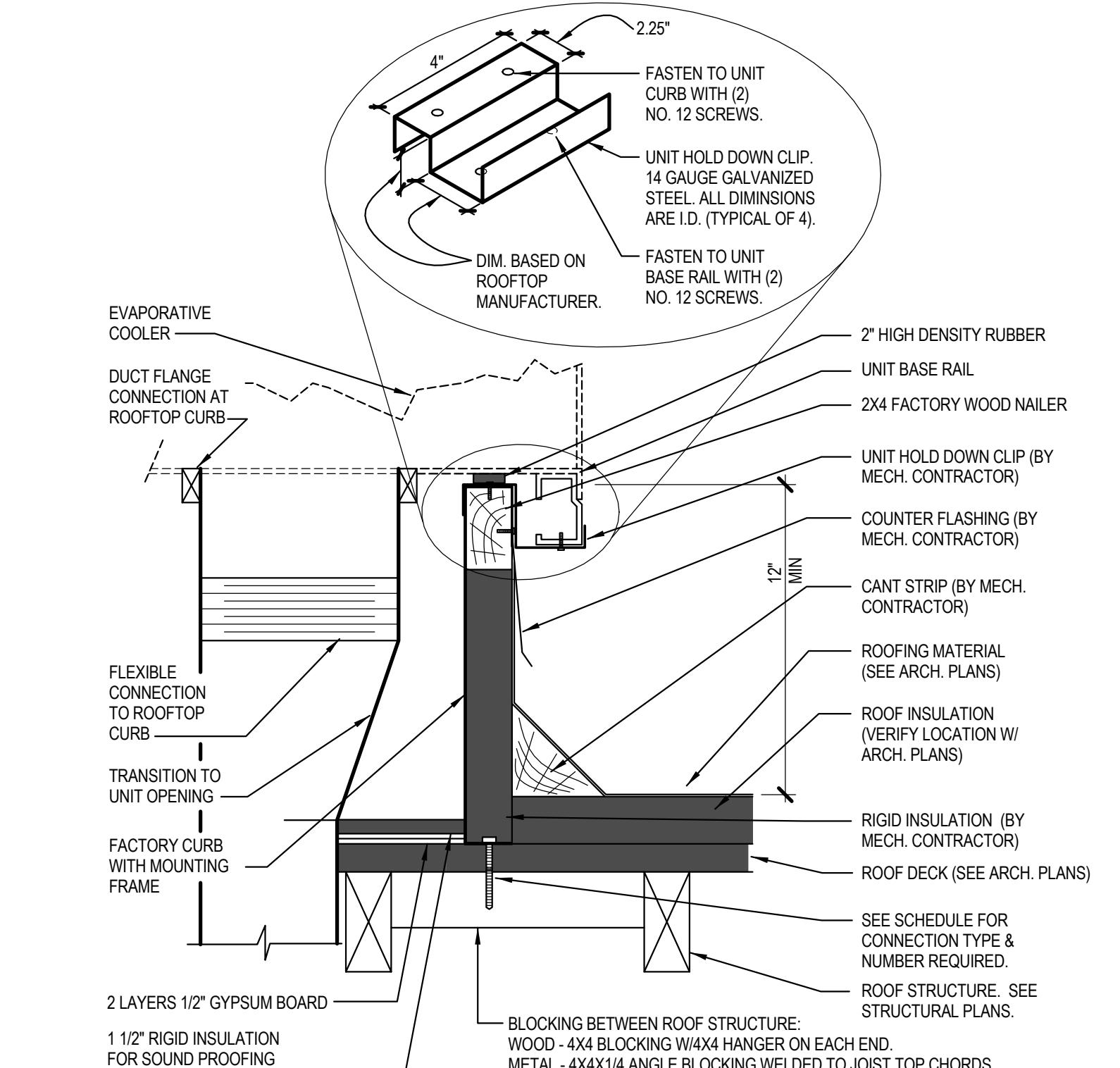
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① CONCENTRIC GAS VENT DETAIL (90%)  
NTS



② PENTHOUSE MOUNTING DETAIL  
NTS

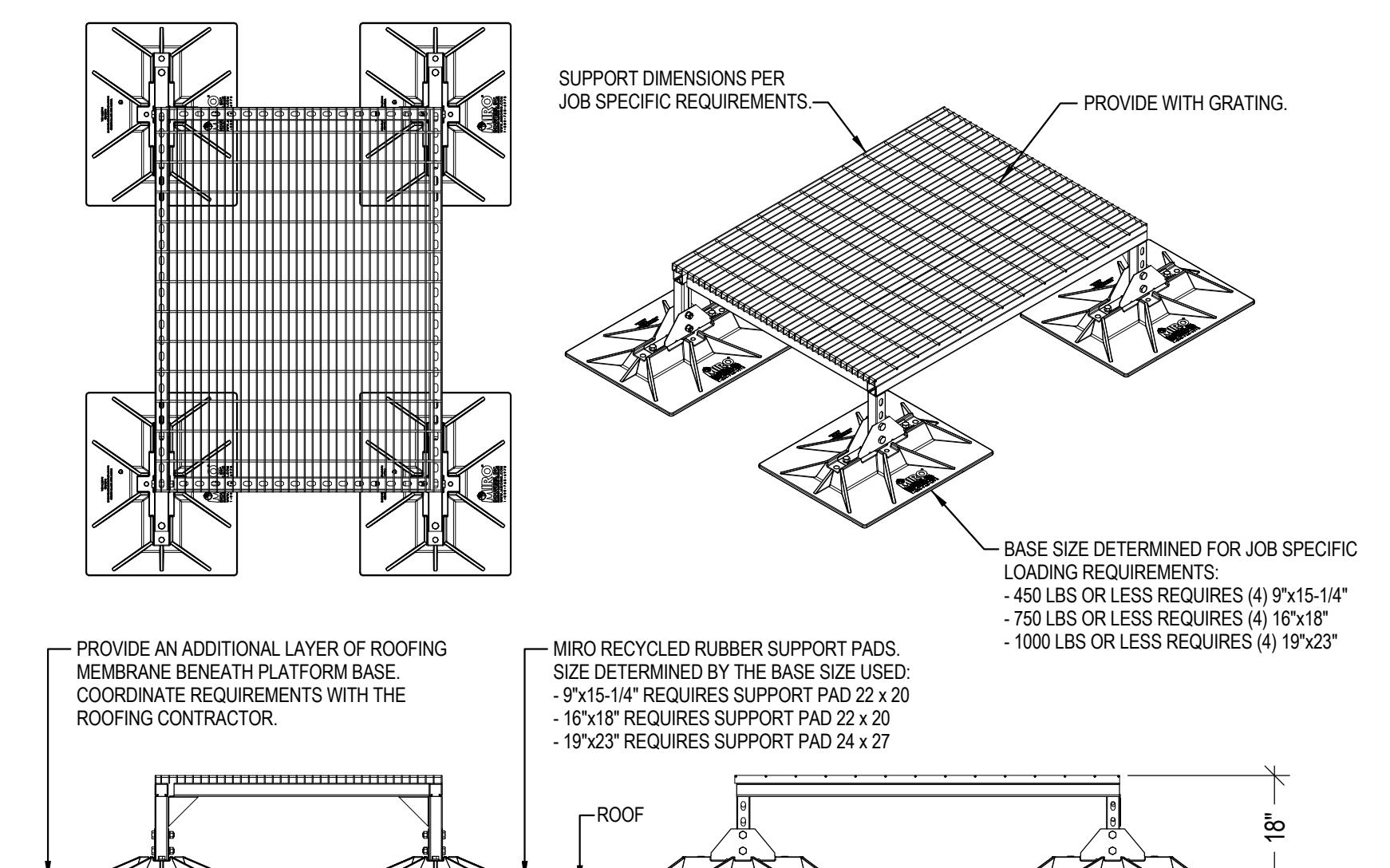


CURB TO ROOF CONNECTION SCHEDULE

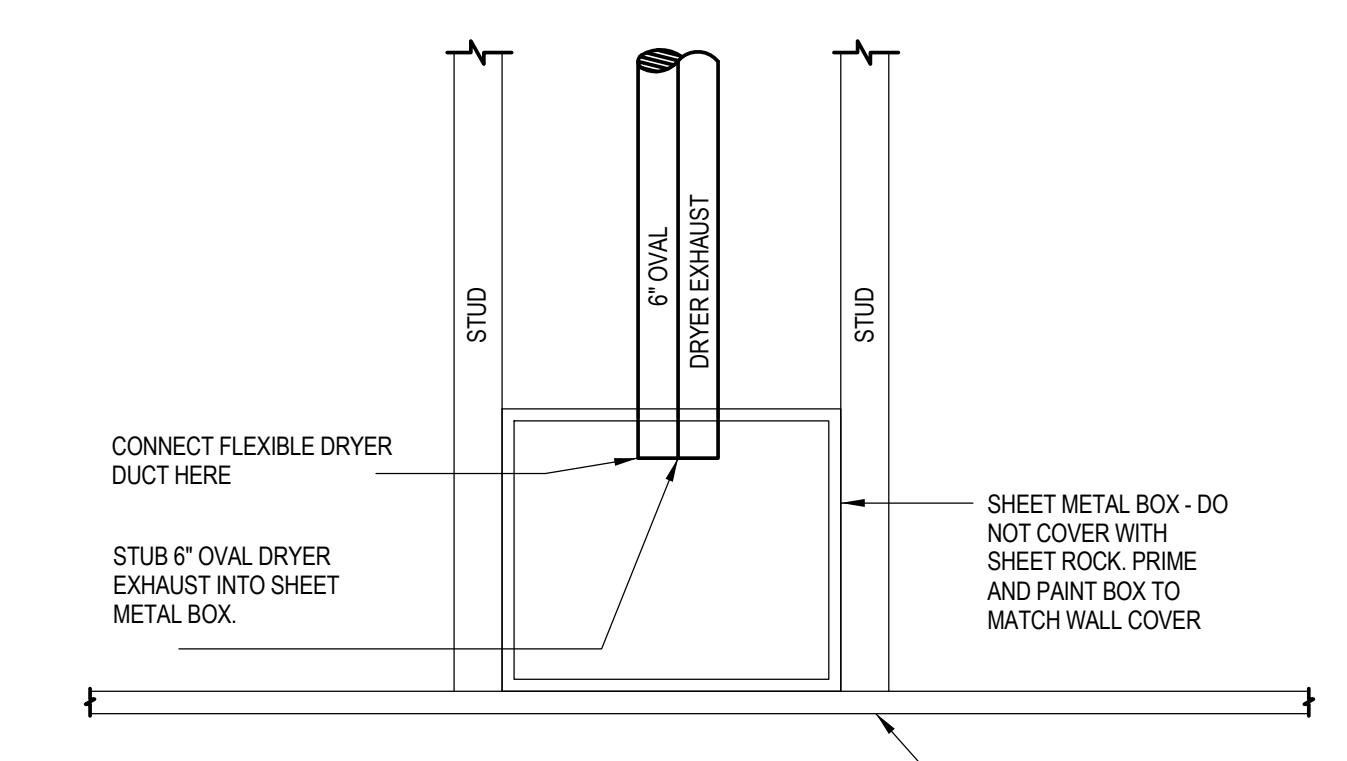
| NOMINAL SIZE | MAX. WEIGHTS | TOTAL LATERAL FORCE (Fp) | NO. & TYPE OF CONNECTION (EQUALLY SPACED) |                   |                         |
|--------------|--------------|--------------------------|---|-------------------|-------------------------|
|              |              |                          | ROOF STRUCTURE TYPE                       | METAL             | WOOD                    |
| ≥ 6000 CFM   | 1800 LBS     | 810 LBS                  | (4) 1/2" LAG BOLT                         | (4) 1/2" LAG BOLT | (4) 3/8" EXPANSION BOLT |

COMPLIES WITH THE INTERNATIONAL BUILDING CODE

③ EVAPORATIVE COOLER CURB MOUNTED DETAIL  
NTS



④ ROOFTOP CONDENSING UNIT PLATFORM DETAIL  
NTS



⑤ DRYER EXHAUST DETAIL  
NTS



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3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

PROJECT PHASE

75% CD

PROJECT NUMBER

15-28

PROJECT MANAGER

J. Chatfield

PROJECT ARCHITECT

J. Chatfield

DESIGN

J. Chatfield

DRAWN BY

LR

SHEET NAME:

**HVAC DETAILS**

SHEET NUMBER:

**M302**

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| PROJECT ARCHITECT | J. Chatfield |
| DESIGN            | J. Chatfield |
| DRAWN BY          | LR           |
| SHEET NAME:       |              |

HVAC SCHEDULES

SHEET NUMBER:

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| DIFFUSER SCHEDULE   |              |                    |           |               |
|---------------------|--------------|--------------------|-----------|---------------|
| SYMBOL              | NOMINAL SIZE | NECK / RUNOUT SIZE | CFM RANGE | REMARKS       |
| D-1<br>COM<br>6"Ø   | 6X6          | 6"Ø                | 0-90      | 1,2,3,4,5,6,7 |
| D-2<br>COM<br>8"Ø   | 9X9          | 8"Ø                | 90-200    | 1,2,3,4,5,6,7 |
| D-3<br>COM<br>10"Ø  | 12X12        | 10"Ø               | 200-350   | 1,2,3,4,5,6,7 |
| D-4<br>COM<br>12"Ø  | 15X15        | 12"Ø               | 300-500   | 1,2,3,4,5,6,7 |
| D-5<br>COM<br>14"Ø  | 15X15        | 14"Ø               | 400-650   | 1,2,3,4,5,6,7 |
| D-6<br>COM<br>16"Ø  | 18X18        | 16"Ø               | 600-900   | 1,2,3,4,5,6,7 |
| D-7<br>COM<br>21X21 | 21X21        | 21X21              | 900-1400  | 1,2,3,4,5,6,7 |

## REMARKS:

1. SIZES BASED ON TITUS MODEL TDC SERIES. APPROVED ALTERNATE MANUFACTURERS INCLUDE ANEMOSTAT, J&J REGISTER, NAILOR, METAL-AIRE, TUTTLE & BAILEY, KRUEGER, PRICE, AND UNITED ENERTECH.
2. SIZES BASED ON A MAXIMUM NC LEVEL OF 25.
3. ALL DIFFUSERS LOCATED IN LAY-IN CEILING AREAS SHALL BE BORDER TYPE 3 AND BE MOUNTED IN MANUFACTURER PROVIDED 24"X24" PANELS. ALL DIFFUSERS LOCATED IN HARD CEILING AREAS SHALL BE BORDER TYPE 6 (BEVELED) SURFACE MOUNTED. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF VARIOUS CEILING TYPES.
4. SEE HVAC FLOOR PLANS FOR DIRECTIONAL THROW REQUIREMENTS FOR EACH DIFFUSER.
5. ALL OF THE DIFFUSERS SHOWN IN THIS SCHEDULE MAY NOT BE USED. REFERENCE THE HVAC PLAN FOR DIFFUSER CALL-OUTS AND THE QUANTITY OF EACH SIZE REQUIRED.
6. WHENEVER THERE IS A DISCREPANCY BETWEEN THE RUNOUT DUCT SIZE SHOWN ON THE PLANS AND THAT SHOWN IN THE SCHEDULE, ALWAYS USE THE LARGER OF THE TWO DUCT SIZES.
7. WHITE FINISH.

| RETURN & EXHAUST GRILLE SCHEDULE |              |                    |           |             |
|----------------------------------|--------------|--------------------|-----------|-------------|
| SYMBOL                           | NOMINAL SIZE | NECK / RUNOUT SIZE | CFM RANGE | REMARKS     |
| R-1<br>6"Ø                       | 8X8          | 6"Ø                | 0-80      | 1,2,3,4,5,6 |
| R-2<br>8"Ø                       | 10X10        | 8"Ø                | 80-180    | 1,2,3,4,5,6 |
| R-3<br>10"Ø                      | 12X12        | 10"Ø               | 180-300   | 1,2,3,4,5,6 |
| R-4<br>6"Ø                       | 22X10        | 6"Ø                | 0-80      | 1,2,3,4,5,6 |
| R-5<br>8"Ø                       | 22X10        | 8"Ø                | 80-180    | 1,2,3,4,5,6 |
| R-6<br>10"Ø                      | 22X10        | 10"Ø               | 180-300   | 1,2,3,4,5,6 |
| R-7<br>12"Ø                      | 22X22        | 12"Ø               | 300-500   | 1,2,3,4,5,6 |
| R-8<br>14"Ø                      | 22X22        | 14"Ø               | 500-750   | 1,2,3,4,5,6 |
| R-9<br>22X10                     | 22X10        | 22X10              | 500-1100  | 1,2,3,4,5,6 |
| R-10<br>22X22                    | 22X22        | 22X22              | 1100-2000 | 1,2,3,4,5,6 |
| R-11<br>10X6                     | 10X6         | 10X6               | 0-180     | 2,7,8       |
| R-12<br>14X6                     | 14X6         | 14X6               | 180-250   | 2,7,8       |

## REMARKS:

1. SIZES BASED ON TITUS MODEL 50F, ALUMINUM EGGCRATE RETURN GRILLE, 1/2" X 1/2" X 1" SPACING (SINGLE CORE). PROVIDE SQUARE TO ROUND TRANSITION (WHERE ROUND RUN-OUT INDICATED). APPROVED ALTERNATE MANUFACTURERS INCLUDE ANEMOSTAT, CARNES, PRICE, NAILOR, METAL-AIRE, TUTTLE & BAILEY, KRUEGER, J&J REGISTER, AND UNITED ENERTECH.
2. SIZES BASED ON A MAXIMUM NC LEVEL OF 25.
3. ALL GRILLES LOCATED IN LAY-IN CEILING AREAS SHALL HAVE BORDER #3, UNLESS OTHERWISE INDICATED. ALL GRILLES LOCATED IN HARD CEILING AREAS SHALL HAVE BORDER #1, UNLESS OTHERWISE INDICATED. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF VARIOUS CEILING TYPES. SHEET METAL DUCTWORK VISIBLE BEHIND GRILLE SHALL BE PAINTED FLAT BLACK.
4. ALL OF THE GRILLES SHOWN IN THIS SCHEDULE MAY NOT BE USED. REFERENCE THE HVAC PLAN FOR GRILLE CALL-OUTS AND THE QUANTITY OF EACH SIZE REQUIRED.
5. WHENEVER THERE IS A DISCREPANCY BETWEEN THE RUNOUT DUCT SIZE SHOWN ON THE PLANS AND THAT SHOWN IN THE SCHEDULE, ALWAYS USE THE LARGER OF THE TWO DUCT SIZES.
6. WHITE FINISH.
7. SOFFIT GRILLE SIZES BASED ON TITUS MODEL 355FL, ALUMINUM CONSTRUCTION, 35° DEFLECTION, 1/2" SPACING, WITH ALUMINUM MESH INSECT SCREEN. APPROVED ALTERNATE MANUFACTURERS INCLUDE ANEMOSTAT, CARNES, PRICE, NAILOR, TUTTLE & BAILEY, KRUEGER, J&J REGISTER, AND UNITED ENERTECH.
8. PAINT GRILLE TO MATCH COLOR OF SOFFIT.
9. LOW WALL GRILLE SIZES BASED ON TITUS MODEL 33R, HEAVY DUTY STEEL, 14 GAUGE BLADES, 1/2" SPACING, 38° DEFLECTION, ALL-WELDED CONSTRUCTION. APPROVED ALTERNATE MANUFACTURERS INCLUDE ANEMOSTAT, CARNES, J&J REGISTER, NAILOR, TUTTLE & BAILEY, KRUEGER, PRICE, AND UNITED ENERTECH.
10. HIGH WALL GRILLE SIZES BASED ON TITUS MODEL 355RL, STEEL BAR GRILLE, FIXED BLADES, 1/2" SPACING, 35° DEFLECTION, ADJUSTABLE OPPOSED BLADE DAMPER. APPROVED ALTERNATE MANUFACTURERS INCLUDE ANEMOSTAT, CARNES, J&J REGISTER, NAILOR, TUTTLE & BAILEY, KRUEGER, PRICE, AND UNITED ENERTECH.

| VRF HVAC SYSTEM SCHEDULE |               |              |               |  |              |                              |      |            |       |      |             |                          |                        |         |
|--------------------------|---------------|--------------|---------------|--|--------------|------------------------------|------|------------|-------|------|-------------|--------------------------|------------------------|---------|
| OUTDOOR UNITS            |               |              |               |  |              |                              |      |            |       |      |             |                          |                        |         |
| SYMBOL                   | AREA SERVED   | NOMINAL TONS | UNIT TYPE     | COOLING REQUIRED AT 80°F EDB, 67°F EBW |              | HEATING REQUIRED AT 70°F EAT |      | ELECTRICAL |       |      | MINIMUM EER | OPERATING WEIGHT (LBS)   | MANUFACTURER AND MODEL | REMARKS |
|                          |               |              |               | TOTAL MBH                              | SENSIBLE MBH | TOTAL MBH                    | MCA  | MOCP       | V/I   |      |             |                          |                        |         |
| HP-1                     | BUILDING CORE | 14           | HEAT RECOVERY | 139.9                                  | N/A          | 135.1                        | 61.9 | 70         | 208/3 | 11.3 | 780         | DAIKIN MODEL REYQ168TTJU | 1,2,4,6                |         |

| INDOOR FAN COIL UNITS |                       |                 |             |              |           |            |         |         |            |     |     |     |                         |                        |                        |         |
|-----------------------|-----------------------|-----------------|-------------|--------------|-----------|------------|---------|---------|------------|-----|-----|-----|-------------------------|------------------------|------------------------|---------|
| HEAT PUMP SYMBOL      | BRANCH SELECT. SYMBOL | FAN COIL SYMBOL | AREA SERVED | NOMINAL TONS | UNIT TYPE | SUPPLY FAN | COOLING | HEATING | ELECTRICAL |     |     | OSA | SOUND (dBA)             | OPERATING WEIGHT (LBS) | MANUFACTURER AND MODEL | REMARKS |
|                       |                       |                 |             |              |           |            |         |         | CFM        | MBH | MBH | MCA | MOCP                    | V/I                    |                        |         |
| FC-1                  | PARAMEDIC OFFICE 124  | 0.6             | HIGH WALL   | 260          | 6.3       | 8.7        | 0.3     | 15.0    | 208/1      | 50  | 35  | 26  | DAIKIN MODEL FXAQ07PVJU | 1,3,5,6                |                        |         |
| FC-2                  | LOBBY 100             | 1.5             | HIGH WALL   | 500          | 15.2      | 21.0       | 0.4     | 15.0    | 208/1      | 50  | 43  | 31  | DAIKIN MODEL FXAQ18PVJU | 1,3,5,6                |                        |         |
| FC-3                  | FF WORK AREA 103      | 0.6             | HIGH WALL   | 260          | 6.3       | 8.7        | 0.3     | 15.0    | 208/1      | 50  | 35  | 26  | DAIKIN MODEL FXAQ07PVJU | 1,3,5,6                |                        |         |
| FC-4                  | CAPTAIN'S OFFICE 104  | 0.6             | HIGH WALL   | 260          | 6.3       | 8.7        | 0.3     | 15.0    | 208/1      | 50  | 35  | 26  | DAIKIN MODEL FXAQ07PVJU | 1,3,5,6                |                        |         |
| FC-5                  | CAPT. DORM 105        | 0.6             | HIGH WALL   | 260          | 6.3</td   |            |         |         |            |     |     |     |                         |                        |                        |         |

| SUPPLY GRILLE SCHEDULE |              |                    |           |            |
|------------------------|--------------|--------------------|-----------|------------|
| SYMBOL                 | NOMINAL SIZE | NECK / RUNOUT SIZE | CFM RANGE | REMARKS    |
| G1<br>CUT SIZE         | 16X6         | 16X6               | 200 - 350 | 1, 2, 3, 4 |
| G2<br>CUT SIZE         | 10X6         | 10X6               | 0 - 250   | 2, 3, 4, 5 |
| G3<br>CUT SIZE         | 16X6         | 16X6               | 200 - 400 | 2, 3, 4, 5 |

## REMARKS:

- CURVE SPIRAL DUCT MOUNTED GRILLE, SIZES BASED ON TITUS MODEL S300FL. DOUBLE DEFLECTION, 3/4" BLADE SPACING, INDIVIDUALLY ADJUSTABLE BLADES, AIR EXTRACTOR, WHITE FINISH AND GRILLE SHALL MATCH CURVE OF DUCTWORK. APPROVED ALTERNATE MANUFACTURERS INCLUDE ANEMOSTAT, CARNES, J&J REGISTER, TUTTLE & BAILEY, NAILOR, METAL-AIRE, KRUEGER, PRICE, AND UNITED ENERTECH.
- SIZES BASED ON A MAXIMUM NC LEVEL OF 25.
- ALL OF THE GRILLES SHOWN IN THIS SCHEDULE MAY NOT BE USED. REFERENCE THE HVAC PLAN FOR GRILLE CALL-OUTS AND THE QUANTITY OF EACH SIZE REQUIRED.
- WHENEVER THERE IS A DISCREPANCY BETWEEN THE RUNOUT DUCT SIZE SHOWN ON THE PLANS AND THAT SHOWN IN THE SCHEDULE, ALWAYS USE THE LARGER OF THE TWO DUCT SIZES.
- WALL GRILLE SIZES BASED ON TITUS MODEL 272F. DOUBLE DEFLECTION ADJUSTABLE BLADES, 3/4" SPACING, WHITE FINISH. APPROVED ALTERNATE MANUFACTURERS INCLUDE ANEMOSTAT, CARNES, J&J REGISTER, TUTTLE & BAILEY, NAILOR, METAL-AIRE, KRUEGER, PRICE, AND UNITED ENERTECH.

| EVAPORATIVE COOLER SCHEDULE |               |          |                                 |            |     |       |           |                           |                |                 |                 |                |               |    |                        |                        |                        |            |
|-----------------------------|---------------|----------|---------------------------------|------------|-----|-------|-----------|---------------------------|----------------|-----------------|-----------------|----------------|---------------|----|------------------------|------------------------|------------------------|------------|
| SYMBOL                      | AREA SERVED   | TYPE     | SENSIBLE COOLING CAPACITY (MBH) | SUPPLY FAN |     |       |           | OPERATING CONDITIONS (°F) |                |                 |                 | PUMP           |               |    | OPERATING WEIGHT (LBS) | MANUFACTURER AND MODEL | REMARKS                |            |
|                             |               |          |                                 | CFM        | ESP | HP/W  | RPM (MAX) | V/I                       | INDOOR DB (°F) | OUTDOOR DB (°F) | OUTDOOR WB (°F) | SUPPLY DB (°F) | GPM @ 3.9' HD | W  | V/I                    |                        |                        |            |
| EC-1                        | APPARATUS BAY | DOWNFLOW | 40.7                            | 3200       | 30" | 550 W | 1510      | 120/1                     | 80             | 95              | 62              | 66.3           | 4.6           | 30 | 120/1                  | 175                    | BREEZAIR MODEL EXV 155 | 1, 2, 3, 4 |

## REMARKS:

- APPROVED ALTERNATE MANUFACTURERS: APPROVED EQUALS MUST RECEIVE PRIOR APPROVAL.
- PROVIDE WITH FACTORY INSTALLED MOTOR AND PUMP, CORROSION-PROOF CABINET, AUTOMATIC DRAIN SYSTEM, BREEZAIR THERMOSTATIC WALL CONTROLLER, WITH SINGLE POINT POWER CONNECTION.
- PROVIDE WITH HARMONY KIT - WIRED WALL CONTROLLER, 65' LOW VOLTAGE WIRING LOOM, AUTO DRAIN AND PLUMBING FITTINGS.
- PROVIDE WITH INDUSTRIAL WALL CONTROLLER IWC10 FOR EXTERNAL EVAPORATIVE AIR CONTROL.

| ELECTRIC HEATER SCHEDULE |                            |                          |     |     |     |            |       |       |      |                        |  |  |  |         |
|--------------------------|----------------------------|--------------------------|-----|-----|-----|------------|-------|-------|------|------------------------|--|--|--|---------|
| SYMBOL                   | AREA SERVED                | UNIT TYPE                | FAN |     |     | ELECTRICAL |       |       |      | MANUFACTURER AND MODEL |  |  |  | REMARKS |
|                          |                            |                          | CFM | RPM | HP  | KW         | STEPS | V/I   | AMPS |                        |  |  |  |         |
| EH-1                     | MAINTENANCE 133            | SURFACE CEILING MOUNTED  | 300 | N/A | 1/8 | 2.0        | 1     | 208/1 | 9.6  | QMARK CDF              |  |  |  | 1, 4    |
| EH-2                     | GENERAL SUPPLY STORAGE 131 | SURFACE CEILING MOUNTED  | 300 | N/A | 1/8 | 2.0        | 1     | 208/1 | 9.6  | QMARK CDF              |  |  |  | 1, 4    |
| EH-3                     | DECON 129                  | SURFACE CEILING MOUNTED  | 300 | N/A | 1/8 | 2.0        | 1     | 208/1 | 9.6  | QMARK CDF              |  |  |  | 1, 4    |
| EH-4                     | FIRE RISER 112             | RECESSED WALL MOUNTED    | 100 | N/A | N/A | 1.5        | 1     | 208/1 | 7.2  | QMARK AWH              |  |  |  | 1, 2, 3 |
| EH-5                     | RESTROOM 202               | RECESSED CEILING MOUNTED | 300 | N/A | 1/8 | 2.0        | 1     | 208/1 | 9.6  | QMARK CDF              |  |  |  | 1, 4    |

## REMARKS:

- APPROVED ALTERNATE MANUFACTURERS: BRASCH, QMARK, INDECO, AND CHROMALOX.
- MOUNT BOTTOM OF HEATER 12" ABOVE FINISH FLOOR.
- PROVIDE UNIT WITH AN INTEGRAL THERMOSTAT. THERMOSTAT SHALL BE COVERED WITH A TAMPER-PROOF ACCESS COVER.
- PROVIDE UNIT WITH A REMOTE WALL MOUNTED LINE-VOLTAGE THERMOSTAT.

| GAS-FIRED RADIANT TUBE HEATER SCHEDULE |               |      |                  |                      |                           |            |           |            |       |                       |                        |                        |         |
|--|---------------|------|------------------|----------------------|---------------------------|------------|-----------|------------|-------|-----------------------|------------------------|------------------------|---------|
| SYMBOL                                 | AREA SERVED   | TYPE | TUBE LENGTH (FT) | MOUNTING HEIGHT (FT) | CLEARANCE TO COMBUSTIBLES |            |           | ELECTRICAL |       | NATURAL GAS INPUT MBH | OPERATING WEIGHT (LBS) | MANUFACTURER AND MODEL | REMARKS |
|  |               |      |                  |                      | TOP (in)                  | BELOW (in) | SIDE (in) | AMPS       | V/I   |                       |                        |                        |         |
| RH-1                                   | APPARATUS BAY | TUBE | 40               | --                   | 9                         | 54         | 20        | 5.5        | 120/1 | 50.0                  | 112                    | MODINE TLP50H34        | 1, 2, 3 |
| RH-2                                   | APPARATUS BAY | TUBE | 40               | --                   | 9                         | 54         | 20        | 5.5        | 120/1 | 50.0                  | 112                    | MODINE TLP50H34        | 1, 2, 3 |
| RH-3                                   | APPARATUS BAY | TUBE | 40               | --                   | 9                         | 54         | 20        | 5.5        | 120/1 | 50.0                  | 112                    | MODINE TLP50H34        | 1, 2, 3 |

## REMARKS:

- APPROVED ALTERNATE MANUFACTURERS: CO-RAY-VAC, SPACE-RAY, CALCANA, RE-VERBER-RAY, AND MODINE.
- PROVIDE WALL MOUNTED HEATING THERMOSTAT.
- PROVIDE OPTIONAL ELECTRONIC CONTROL PANEL.

| PENTHOUSE SCHEDULE |               |                           |                 |             |                         |        |                        |  |  |         |
|--------------------|---------------|---------------------------|-----------------|-------------|-------------------------|--------|------------------------|--|--|---------|
| SYMBOL             | AREA SERVED   | TYPE                      | NUMBER OF TIERS | THROAT SIZE | MINIMUM FREE AREA (ft²) | FINISH | MANUFACTURER AND MODEL |  |  | REMARKS |
| PH-1               | APPARATUS 126 | GRAVITY RELIEF VENTILATOR | 5               | 36X54       | 13.5                    | MILL   | COOK MODEL TRE         |  |  | 1, 2, 3 |

## REMARKS:

- APPROVED ALTERNATE MANUFACTURERS: GREENHECK, CARNES, AIROLITE, LOUVERS & DAMPERS, AIR-RITE MANUFACTURING, RUSKIN, NCA, AND CESCO.
- COLOR TO BE SELECTED BY ARCHITECT.
- PROVIDE WITH BIRD SCREEN, BACKDRAFT DAMPER, 120V// LOW LEAKAGE MOTORIZED DAMPER, AND ROOF CURB.

| KITCHEN EXHAUST HOOD SCHEDULE |                      |                        |                 |         |             |                 |               |             |                 |                           |                        |         |
|-------------------------------|----------------------|------------------------|-----------------|---------|-------------|-----------------|---------------|-------------|-----------------|---------------------------|------------------------|---------|
| SYMBOL                        | AREA SERVED          | UNIT TYPE              | HOOD DIMENSIONS |         | EXHAUST AIR |                 |               | MAKE-UP AIR |                 | HOOD HANGING WEIGHT (LBS) | MANUFACTURER AND MODEL | REMARKS |
|                               |                      |                        | LENGTH          | WIDTH   | AIRFLOW CFM | DUCT CONNECTION | MAX S.P. LOSS | AIRFLOW CFM | DUCT CONNECTION |                           |                        |         |
| RH-1                          | KITCHEN / DINING 205 | RESIDENTIAL RANGE HOOD | 2' - 6"         | 20'-18" | 150 / 630   | 3-1/4" X 14"    | -0.10"        | N/A         | N/A             | N/A                       | BROAN MODEL QP430SS    | 1, 2, 3 |

- APPROVED ALTERNATE MANUFACTURERS: GE, JENNAR, AND KENMORE.
- ELECTRICAL SPECIFICATIONS - 120V// PHASE, 3.5 AMPS. PROVIDE WITH DISHWASHER-SAFE ALUMINUM FILTERS, (4) 50W, HALOGEN FLOOD LIGHTS, 3-1/4" X 14" HORIZONTAL DISCHARGE EXHAUST VENTING OPTION, AND DAMPER. UNIT SHALL BE BRUSHED STAINLESS STEEL.
- PROVIDED BY OTHERS, INSTALLED BY CONTRACTOR.

**COLE ARCHITECTS**

COLE ARCHITECTS | 802 W. BANNOCK SUIT 208  
Boise, ID 83702 | (208) 345-1800

**TCA**

architecture • planning</p

COLE ARCHITECTS

COLE ARCHITECTS | 802 W. BANNOCK SUITE 208  
Boise, ID 83702 | (208) 345-1800T C A  
architecture • planningTCA | 821 Roosevelt Way NE  
Seattle, WA 98115 | (206) 522-3820

STAMP:

PRELIMINARY

NOT FOR  
CONSTRUCTION  
01-28-16

CONSULTANT:

MUSGROVE  
ENGINEERING, P.A.234 S. Whisepwood Way  
Boise, Idaho 83709  
208 334 0585  
www.musgrovepa.comOVER 30 YEARS OF EXCELLENCE  
project number: 15-125

PROJECT INFORMATION:



City of Boise Fire Station 8

3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|------|------|-------------|

PROJECT PHASE | 75% CD

PROJECT NUMBER | 15-28

PROJECT MANAGER | J. Chatfield

PROJECT ARCHITECT | J. Chatfield

DESIGN | J. Chatfield

DRAWN BY | LR

SHEET NAME:

HVAC SCHEDULES

D

M403

01.04.16

| SYMBOL | AREA SERVED     | UNIT TYPE         | DUCT SIZE |        | CFM RANGE |                 |       | MINIMUM AIRFLOW (CFM) | MAXIMUM AIRFLOW (CFM) | MANUFACTURER AND MODEL | REMARKS |
|--------|-----------------|-------------------|-----------|--------|-----------|-----------------|-------|-----------------------|-----------------------|------------------------|---------|
|        |                 |                   | WIDTH     | HEIGHT | KW        | V $\varnothing$ | STEPS |                       |                       |                        |         |
| DH-1   | TURN OUT RM 130 | FLANGED OPEN COIL | 10"       | 10"    | 8.0       | 208/3           | SCR   | 350                   | 350                   | QMARK MODEL FC SERIES  | 1,2,3   |

REMARKS:

- APPROVED ALTERNATE MANUFACTURERS: MARKEL, REDDI, VALLEY INDUSTRIES, INDECO, AND BRASCH.
- PROVIDE WITH MAGNETIC DE-ENERGIZING CONTACTORS, AUTOMATIC LIMIT THERMOSTAT, CIRCUIT FUSING (IF ABOVE 40 AMPS), FUSED DISCONNECT, AIR PRESSURE SENSOR SWITCH, CONTROL TRANSFORMER, AND INSULATED CONTROL BOX.
- CONTROL WITH WALL-MOUNTED THERMOSTAT.

| SYMBOL | AREA SERVED     | UNIT TYPE                   | BLOWER |      |             | ELECTRICAL |      | MAXIMUM SONES | OPERATING WEIGHT (LBS) | MANUFACTURER AND MODEL | REMARKS                             |
|--------|-----------------|-----------------------------|--------|------|-------------|------------|------|---------------|------------------------|------------------------|-------------------------------------|
|        |                 |                             | CFM    | ESP  | MAXIMUM RPM | DRIVE      | HP/W |               |                        |                        |                                     |
| EF-1   | DECON 129       | CEILING CABINET             | 100    | .25" | 1075        | DIRECT     | 33W  | 120/1         | 2.5                    | 15                     | COOK MODEL GC-148                   |
| EF-2   | ELEC RM 113     | CEILING CABINET             | 100    | .25" | 1075        | DIRECT     | 33W  | 120/1         | 2.5                    | 15                     | COOK MODEL GC-148                   |
| EF-3   | VEHICLE EXHAUST | RADIAL BLADE, HIGH PRESSURE | 560    | 4.0" | 3450        | DIRECT     | 1HP  | 120/1         | --                     | 50                     | GRAINGER PACKAGE NO. 7C447 (DAYTON) |
| EF-4   | VEHICLE EXHAUST | RADIAL BLADE, HIGH PRESSURE | 560    | 4.0" | 3450        | DIRECT     | 1HP  | 120/1         | --                     | 50                     | GRAINGER PACKAGE NO. 7C447 (DAYTON) |
| EF-5   | VEHICLE EXHAUST | RADIAL BLADE, HIGH PRESSURE | 560    | 4.0" | 3450        | DIRECT     | 1HP  | 120/1         | --                     | 50                     | GRAINGER PACKAGE NO. 7C447 (DAYTON) |

REMARKS:

- APPROVED ALTERNATE MANUFACTURERS: GREENHECK, TWIN CITY FAN COMPANY, AND SOLER & PALAU.
- PROVIDE UNIT WITH MANUFACTURER'S ALUMINUM ROOF CAP (FLAT ROOF) EQUAL TO COOK MODEL PR (W/ INTEGRAL BIRD SCREEN AND ROOF CURB), BACKDRAFT DAMPER, OUTLET FLEX DUCT CONNECTION, STANDARD PLUG DISCONNECT, PRE-WIRED FAN SPEED CONTROLLER, THERMAL OVERLOAD PROTECTION, HANGING VIBRATION ISOLATORS, AND WHITE ALUMINUM GRILLE.
- CONTROL FAN WITH SEPARATE WALL SWITCH.
- CONTROL FAN WITH HEAT RISE THERMOSTAT.
- CONTROL FAN WITH VEHICLE EXHAUST CONTROL PANEL.

| SYMBOL | AREA SERVED   | BLOWER       |     |         | ELECTRICAL |                 | OPERATING WEIGHT (LBS) | MANUFACTURER AND MODEL                | REMARKS |
|--------|---------------|--------------|-----|---------|------------|-----------------|------------------------|---------------------------------------|---------|
|        |               | FAN DIAMETER | CFM | MAX RPM | HP/W       | V $\varnothing$ |                        |                                       |         |
| CF-1   | APPARATUS 135 | 12'          | N/A | 111     | 1HP        | 208/3           | 150                    | BIG ASS FAN COMPANY MODEL POWERFOIL 8 | 1,2     |

REMARKS:

- APPROVED ALTERNATE MANUFACTURERS: MACRAIR.
- PROVIDE WITH ELECTRONIC WALL CONTROLLER, SAFETY CABLE, AND EXTENSION TUBE (AS REQUIRED TO MOUNT FAN 6' BELOW CEILING). MOUNT CONTROLLER 60" AFF. MECHANICAL TO PROVIDE AND INSTALL ALL LOW VOLTAGE WIRING BETWEEN FAN AND CONTROLLER.

| SYMBOL | SUPPLY FAN |      |     | EXHAUST FAN |      |     | WINTER DESIGN |     |         | SUMMER DESIGN |        |     | ELECTRICAL |     |     | MIN. EFF. WEIGHT (LBS) | MANUFACTURER AND MODEL | REMARKS |    |       |    |     |                     |         |
|--------|------------|------|-----|-------------|------|-----|---------------|-----|---------|---------------|--------|-----|------------|-----|-----|------------------------|------------------------|---------|----|-------|----|-----|---------------------|---------|
|        | CFM        | ESP  | HP  | CFM         | ESP  | HP  | SUPPLY        |     | EXHAUST |               | SUPPLY |     | EXHAUST    |     | MCA | MOCP                   | V $\varnothing$        |         |    |       |    |     |                     |         |
|        |            |      |     |             |      |     | EDB           | EWB | LDB     | EDB           | EWB    | LDB | EDB        | EWB | LDB |                        |                        |         |    |       |    |     |                     |         |
| ERU-1  | 1075       | 1.0" | .5  | 900         | 1.0" | .75 | 9             | 6   | --      | 68            | --     | --  | 94         | 63  | --  | 80                     | --                     | 9.7     | 15 | 208/3 | -- | 800 | COOK MODEL ERV 1500 | 1,2,3,4 |
| ERU-2  | 350        | 1.0" | .25 | 350         | 1.0" | .25 | 9             | 6   | --      | 68            | --     | --  | 94         | 63  | --  | 80                     | --                     | 4.7     | 15 | 208/3 | -- | 800 | COOK MODEL ERV 1500 | 1,2,3,4 |

REMARKS:

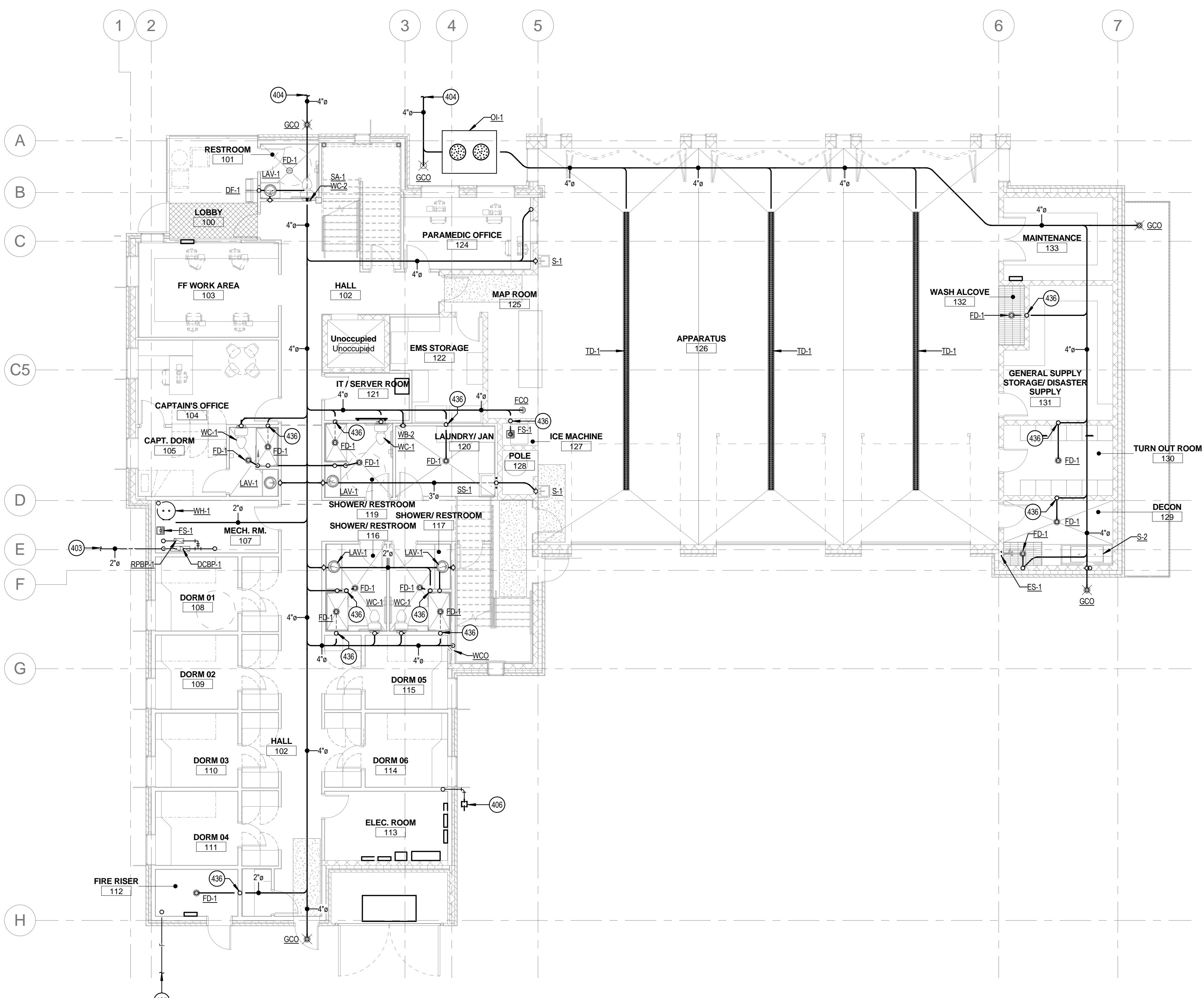
- APPROVED ALTERNATE MANUFACTURERS: AAON, GREENHECK (MODEL ERV), XETEX, PENNBARRY, CARNES, AND NUTECH LIFE BREATH.
- PROVIDE WITH EXHAUST ONLY FROST PREVENTION CONTROLS, SINGLE POINT POWER CONNECTION, NEMA 3R DISCONNECT SWITCH, MOTOR STARTERS, 2"-30% FILTERS IN EACH AIR STREAM, 7 YEAR WARRANTY ON HEAT EXCHANGER, VIBRATION ISOLATORS ON EACH FAN, INTAKE AND EXHAUST WEATHER HOODS, MANUFACTURER'S ROOF CURB, HINGED ACCESS PANELS, AND ECONOMIZER CYCLE. PROVIDE UNIT WITH UL APPROVAL LISTING.
- PROVIDE AND INSTALL 7-DAY PROGRAMMABLE TIMER SWITCH.
- CONNECT UNIT TO DDC CONTROL SYSTEM AND SEQUENCE AS OUTLINED ON CONTROL DRAWINGS.

D

D

SHEET NUMBER:

01.04.16



## KEYED NOTES

- 403 2" CW SERVICE TO BUILDING WITH NEW 1-1/2" WATER METER. REFER TO CIVIL PLANS FOR CONTINUATION.  
 404 4" SANITARY SEWER. INVERT ELEVATION AT XX" BELOW FINISHED FLOOR @ 1/4" SLOPE. REFER TO CIVIL PLANS FOR CONTINUATION.  
 405 FIRE SERVICE TO BUILDING. REFER TO CIVIL PLANS FOR CONTINUATION.  
 406 GAS METER WITH 1", 2 PSI GAS LINE SERVING BUILDING. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH INTERMOUNTAIN GAS COMPANY. TOTAL GAS LOAD = 465.1 MBH @ 2 PSI. REFER TO GAS SIZING CHART ON SHEET P401 FOR BREAKDOWN OF EQUIPMENT.  
 436 VENT UP. REFER TO 1ST FLOOR PLUMBING PLAN FOR CONTINUATION.

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CONSULTANT:

**MUSGROVE ENGINEERING, P.A.**  
234 N. Whisepwood Way  
Boise, Idaho 83709  
208 334 0585  
www.musgrovepa.com  
OVER 30 YEARS OF EXCELLENCE  
project number: 15-125

PROJECT INFORMATION:



**City of Boise Fire Station 8**  
3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

|                   |              |
|-------------------|--------------|
| PROJECT PHASE     | 75% CD       |
| PROJECT NUMBER    | 15-28        |
| PROJECT MANAGER   | J. Chatfield |
| PROJECT ARCHITECT | J. Chatfield |
| DESIGN            | J. Chatfield |
| DRAWN BY          | LR           |

SHEET NAME:

NORTH



**FOUNDATION PLUMBING PLAN**

SHEET NUMBER:

**P101**

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208 334 0585  
[www.musgrovepa.com](http://www.musgrovepa.com)

OVER 30 YEARS OF EXCELLENCE  
project number: 15-125

PROJECT INFORMATION:



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3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

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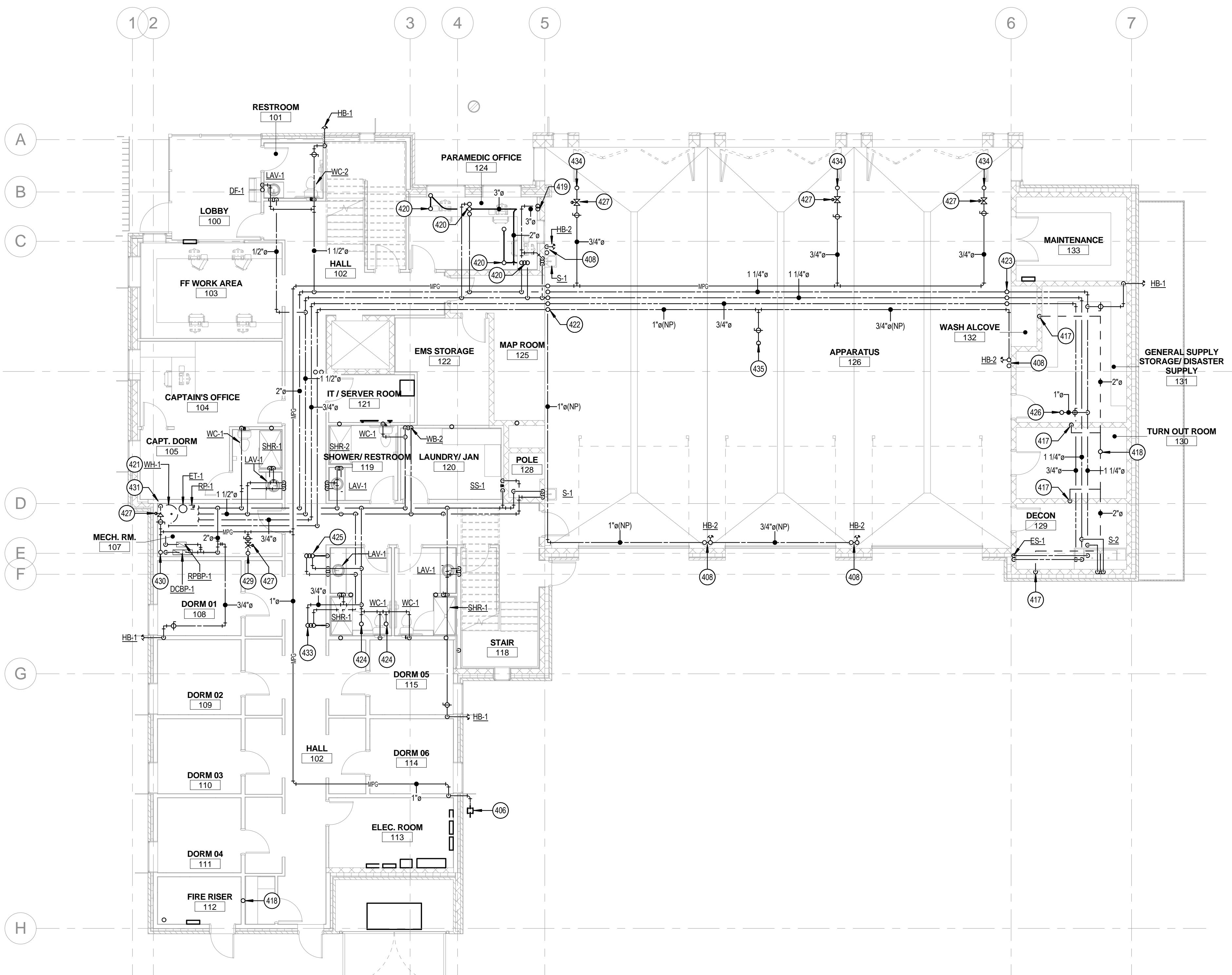
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|-------------------|--------------|
| PROJECT PHASE     | 75% CD       |
| PROJECT NUMBER    | 15-28        |
| PROJECT MANAGER   | J. Chatfield |
| PROJECT ARCHITECT | J. Chatfield |
| DESIGN            | J. Chatfield |
| DRAWN BY          | LR           |

SHEET NAME:

**1ST FLOOR  
PLUMBING PLAN**

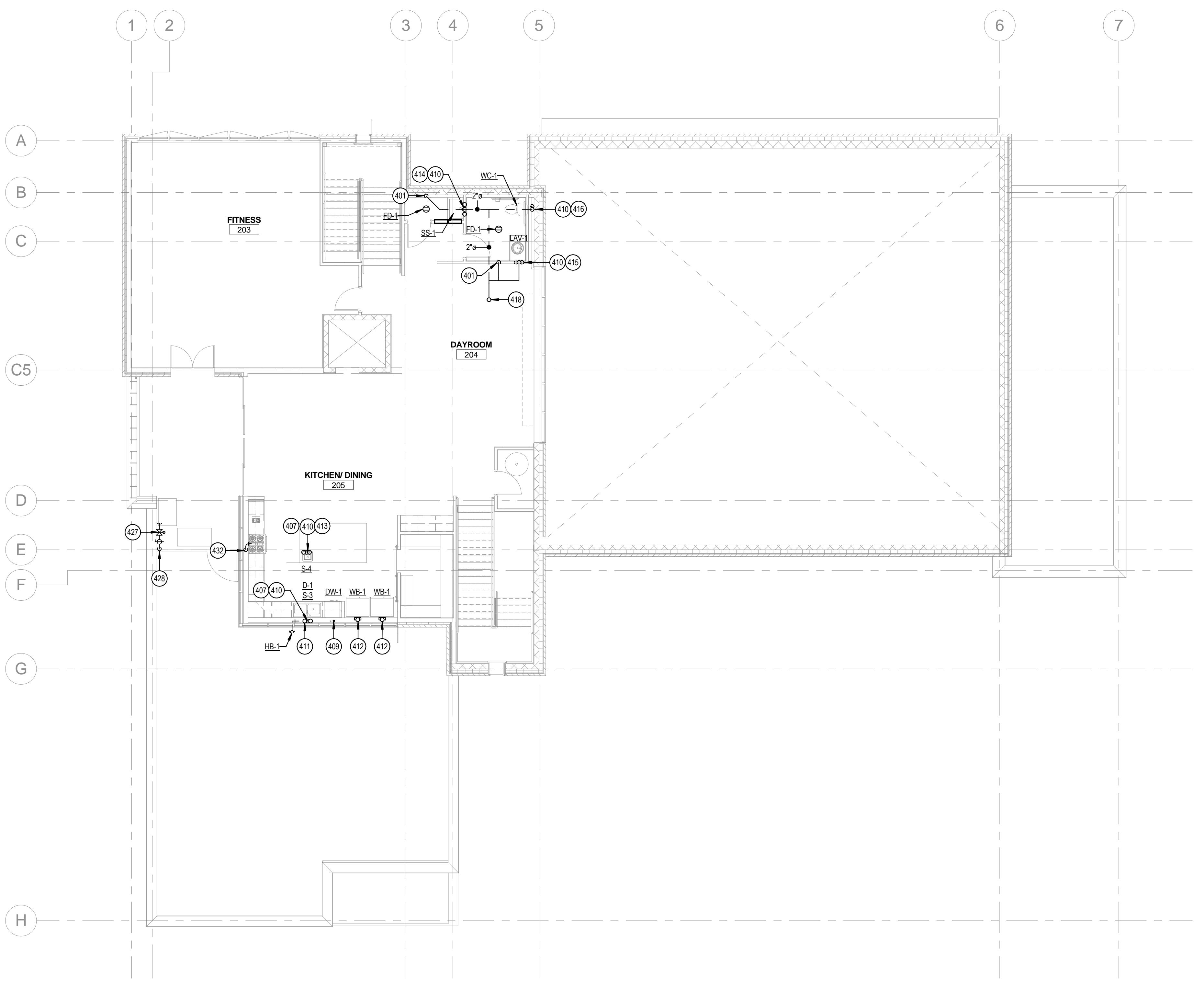
SHEET NUMBER:

**P201**



**1ST FLOOR PLUMBING PLAN**  
1/8" = 1'-0"





## KEYED NOTES

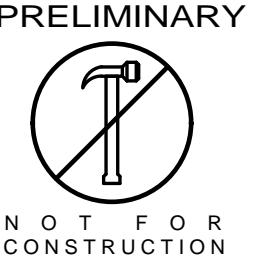
- 401 VENT FROM BELOW. REFER TO 1ST FLOOR PLUMBING PLAN FOR CONTINUATION.  
 407 REFER TO ISLAND SINK FOOT VENT DETAIL ON SHEET P302.  
 409 REFER TO DISHWASHER CONNECTION DETAIL ON SHEET P302.  
 410 ROUTE WASTE PIPING DOWN THROUGH FLOOR TO FIRST FLOOR CEILING SPACE. REFER TO 1ST FLOOR PLUMBING PLAN FOR CONTINUATION.  
 411 3/4" CW AND 1/2" HW UP FROM BELOW TO SERVE KITCHEN SINK S-3. PROVIDE 1/2" TEE OFF HW LINE TO SERVE DISHWASHER DW-1. PROVIDE 3/4" TEE WITH SHUT-OFF VALVE OFF CW LINE TO SERVE HOSE BBB-HB-1.  
 412 1/2" CW UP FROM BELOW TO SERVE WALL BOX WB-1.  
 413 1/2" CW AND 1/2" HW UP FROM BELOW TO SERVE PREP SINK S-4.  
 414 1/2" CW AND 1/2" HW UP FROM BELOW TO SERVE SERVICE SINK SS-1.  
 415 1/2" CW AND 1/2" HW UP FROM BELOW TO SERVE WATER CLOSET WC-1.  
 416 1/2" CW UP FROM BELOW TO SERVE WATER CLOSET WC-1.  
 418 2" VENT UP THROUGH ROOF. REFER TO PLUMBING ROOF PLAN FOR CONTINUATION.  
 427 GAS PRESSURE REGULATOR. SEE GAS SIZING CHART ON SHEET P401 FOR ADDITIONAL INFORMATION. REFER TO DETAIL ON SHEET P302.  
 428 3/4" CW GAS LINE UP FROM BELOW. ROUTE PIPING AS REQUIRED TO SERVE BOTH GAS BARBECUE AND GAS SMOKER.  
 432 3/4" LOW PRESSURE GAS LINE FROM BELOW.

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project number: 15-125
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|                   |              |
|-------------------|--------------|
| PROJECT PHASE     | 75% CD       |
| PROJECT NUMBER    | 15-28        |
| PROJECT MANAGER   | J. Chatfield |
| PROJECT ARCHITECT | J. Chatfield |
| DESIGN            | J. Chatfield |
| DRAWN BY          | LR           |

SHEET NAME:

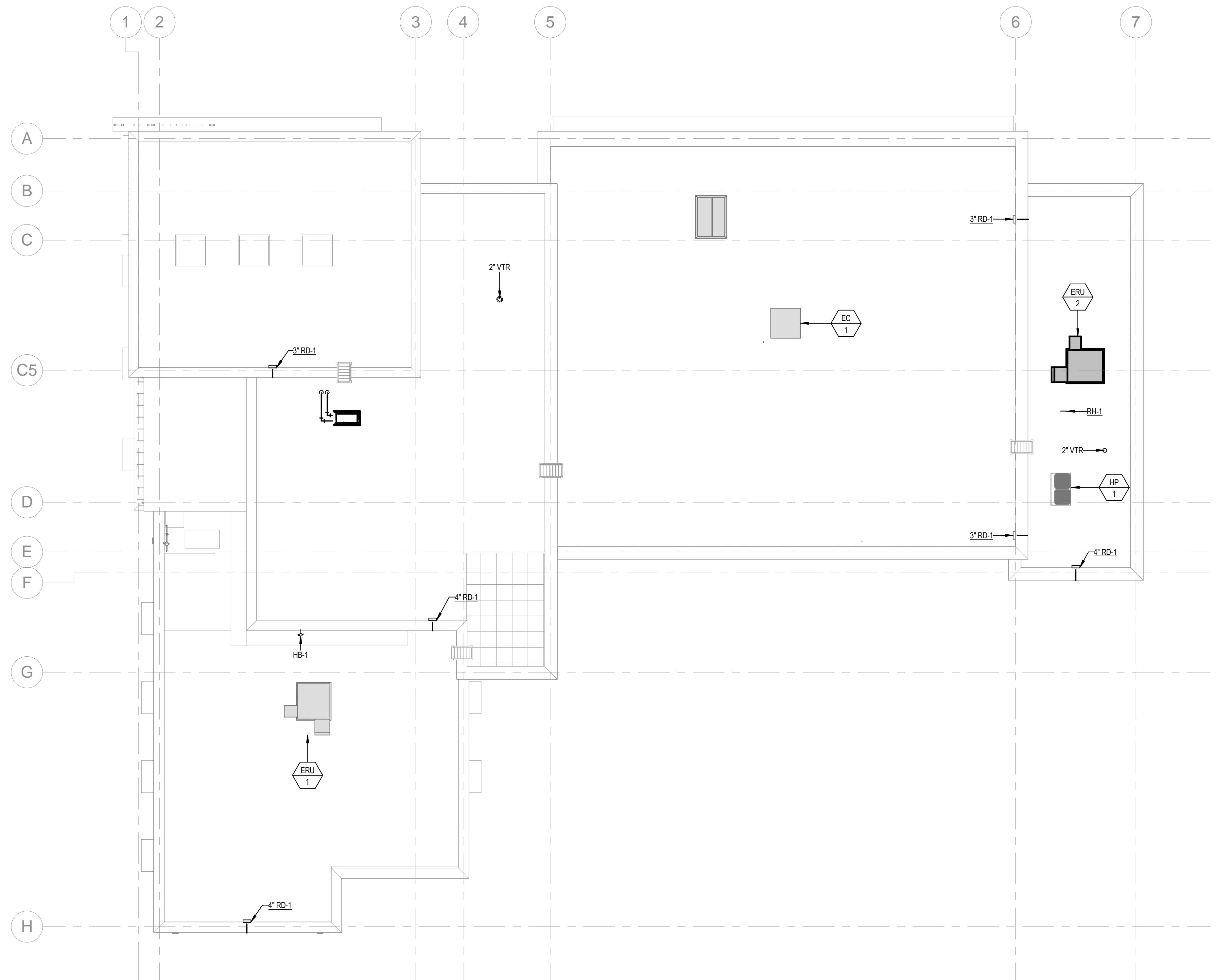
**2ND FLOOR PLUMBING PLAN**  
 D

SHEET NUMBER:

**P202**

01.04.16

## KEYED NOTES

PLUMBING ROOF PLAN  
1/8" = 1'-0"

NORTH

PLUMBING ROOF  
PLAN

P203

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|                   |              |
|-------------------|--------------|
| PROJECT PHASE     | 75% CD       |
| PROJECT NUMBER    | 15-28        |
| PROJECT MANAGER   | J. Chatfield |
| PROJECT ARCHITECT | J. Chatfield |
| DESIGN            | J. Chatfield |
| DRAWN BY          | LR           |

SHEET NAME:

SHEET NUMBER:

P203

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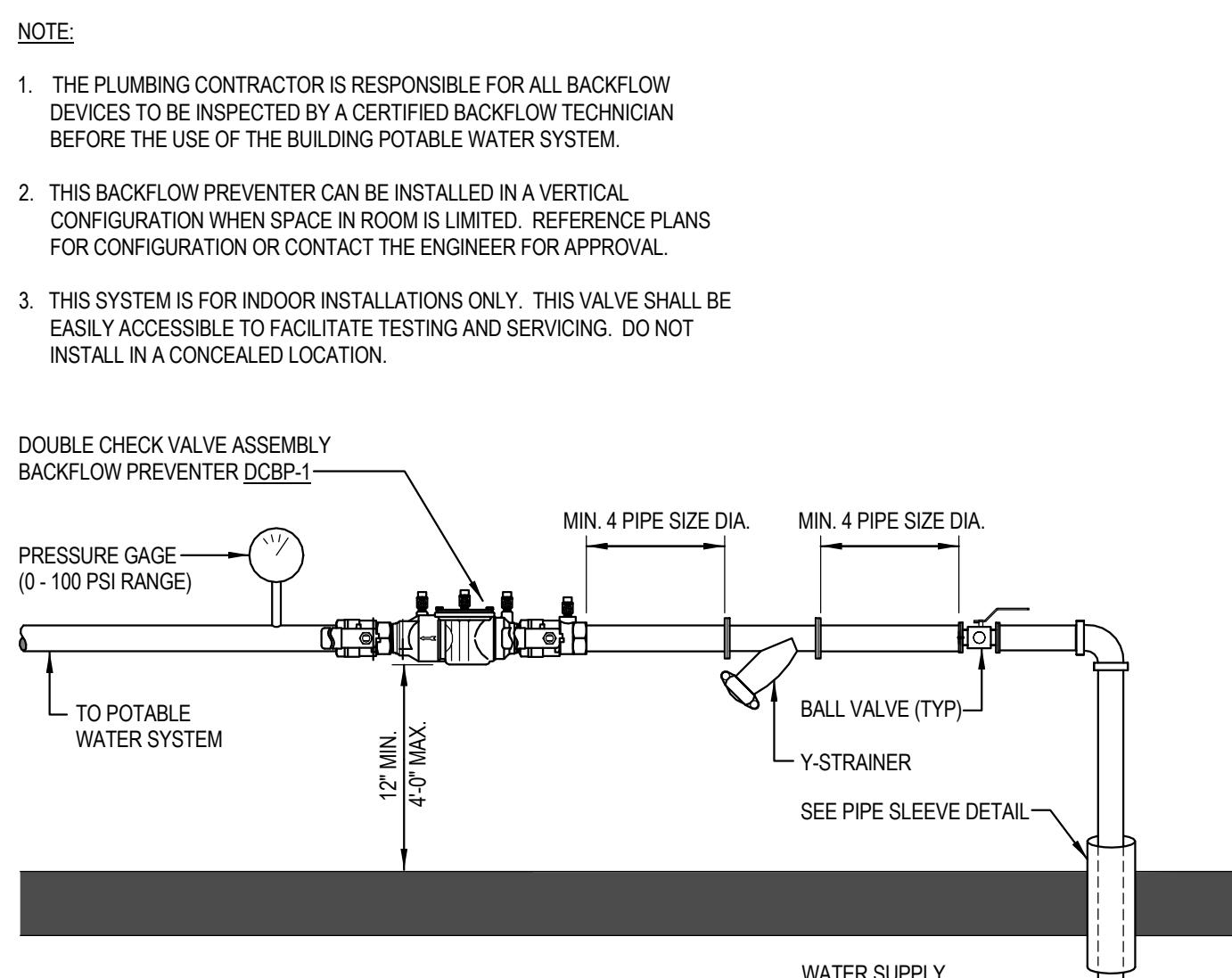
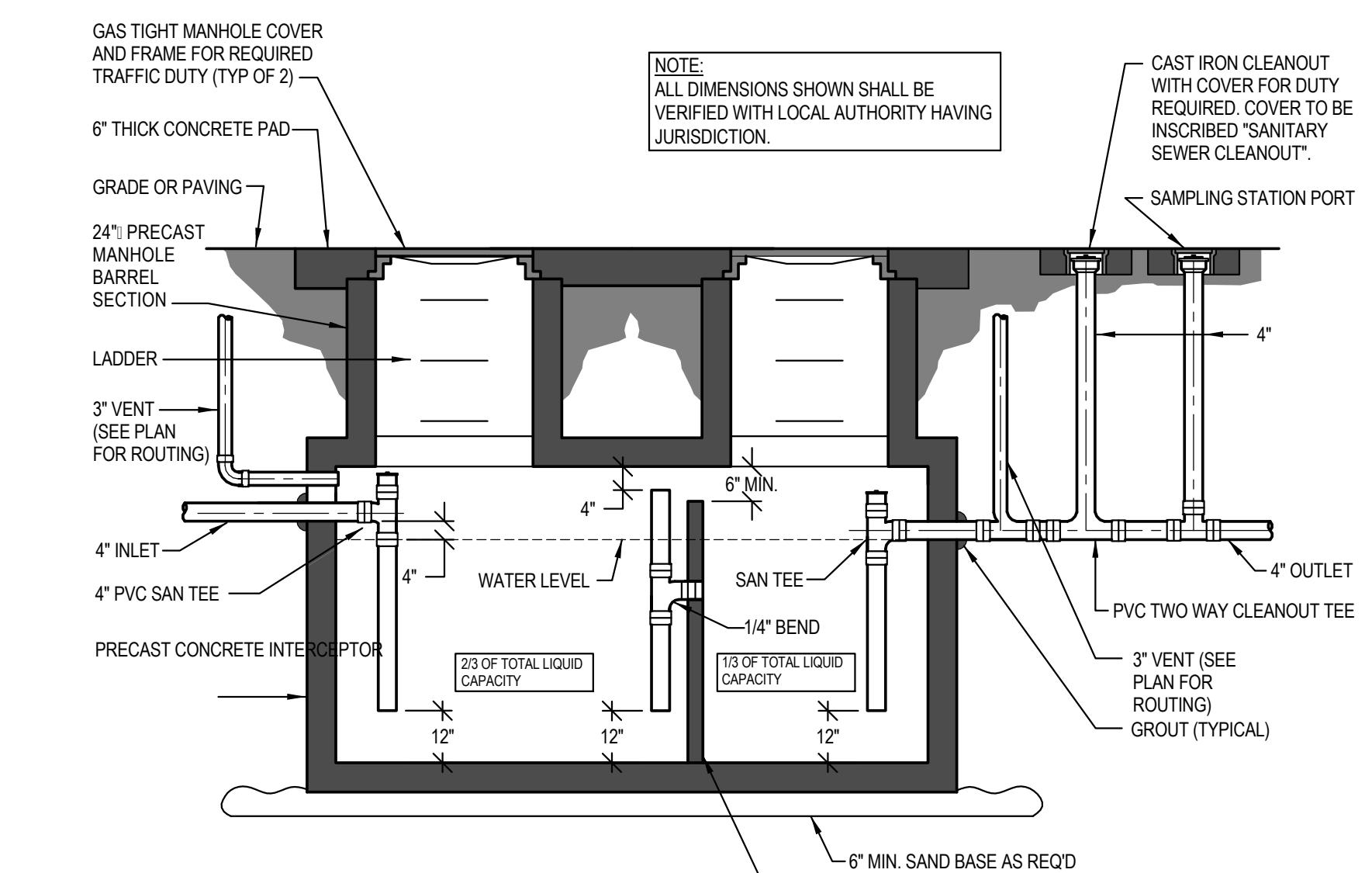
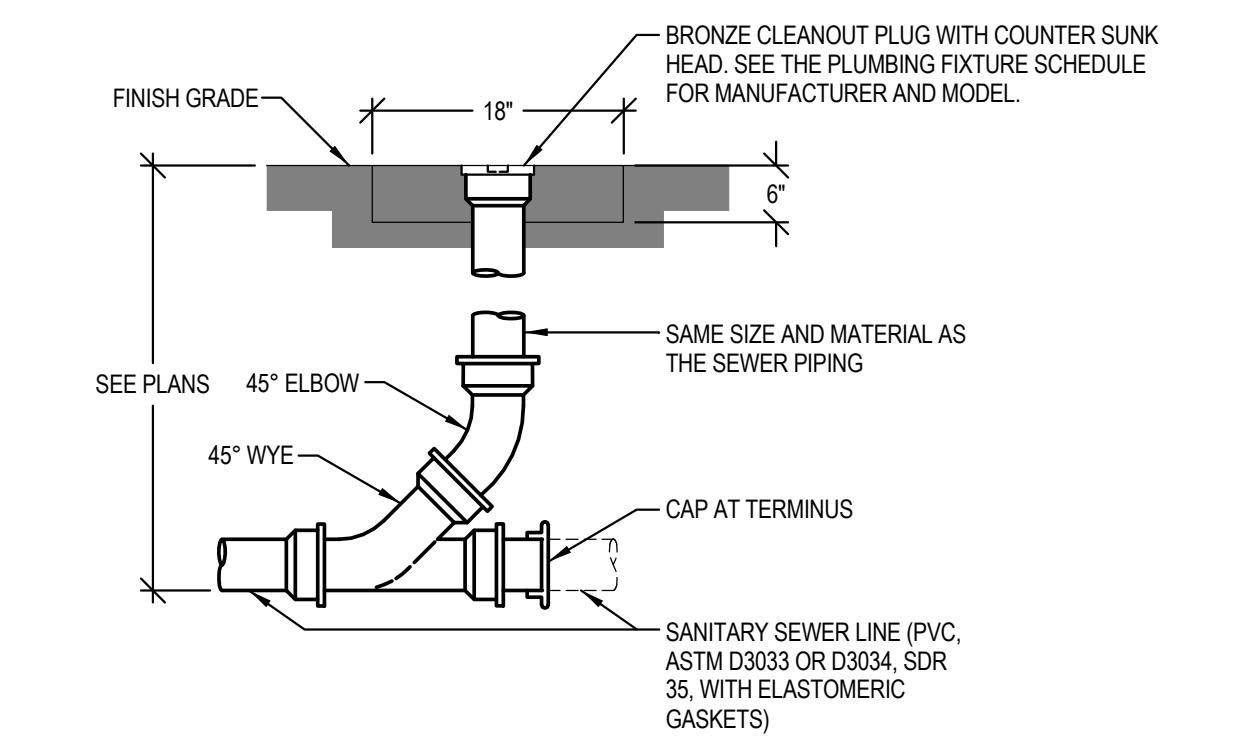
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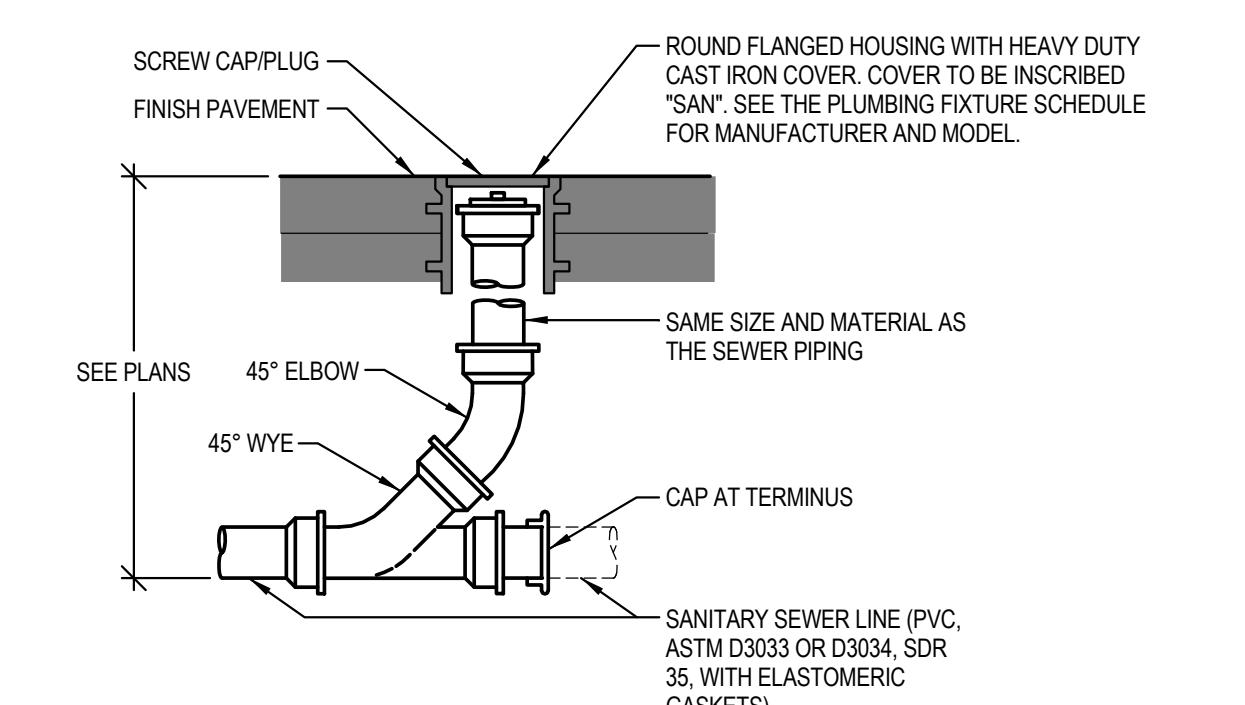
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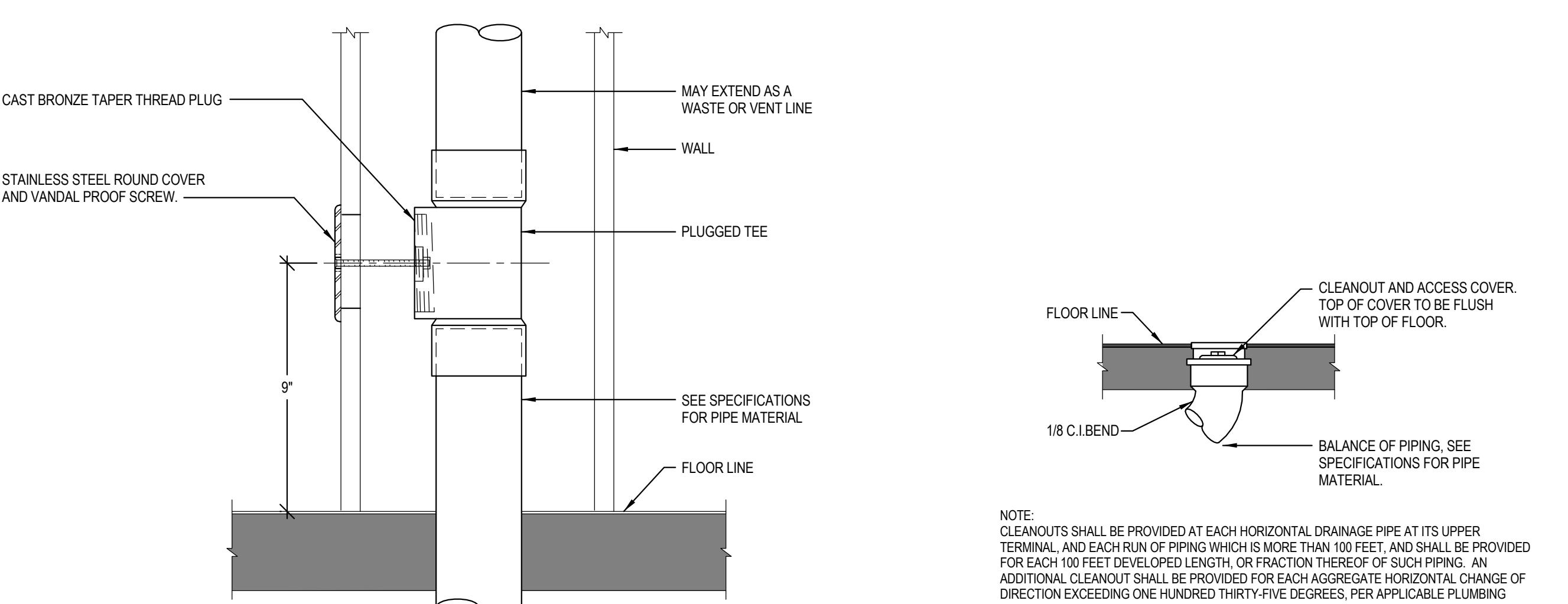
A

(1) DCBP WATER SERVICE DETAIL  
NTS(2) OIL AND SAND INTERCEPTOR DETAIL  
NTS

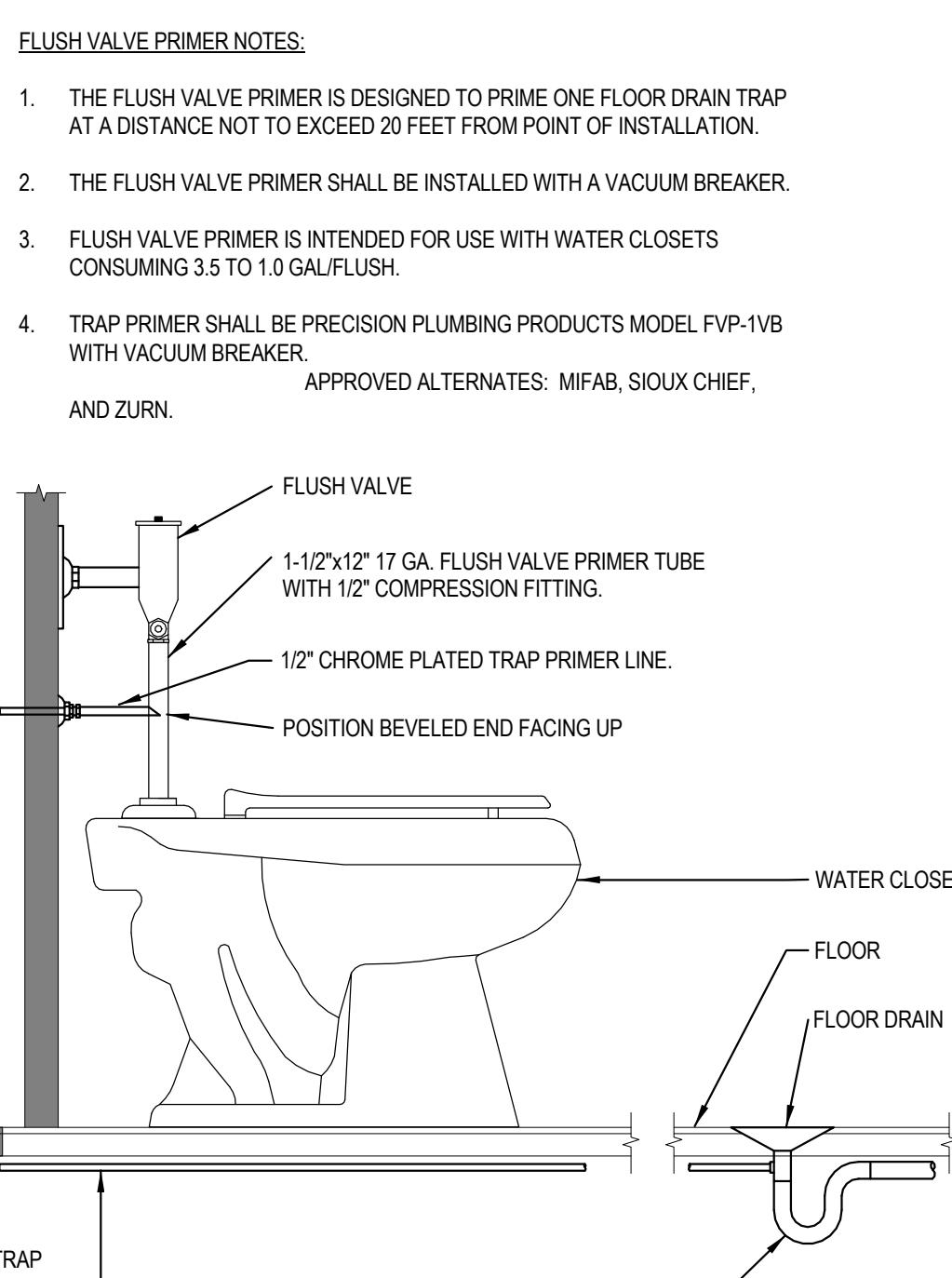
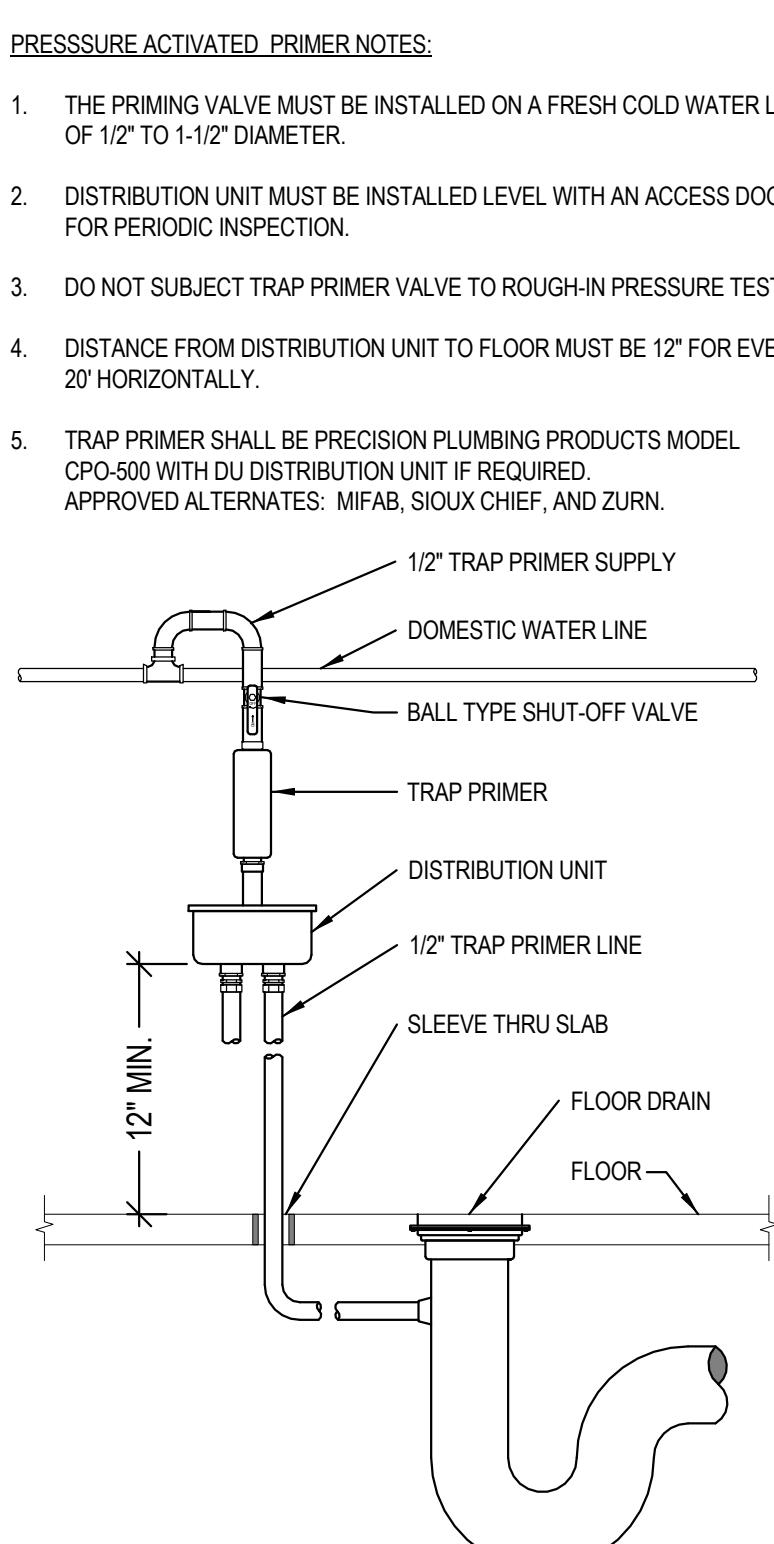
## PEDESTRIAN TRAFFIC AREAS / NON-PAVED AREAS



## VEHICULAR TRAFFIC AREAS / PAVED AREAS

(3) GRADE CLEANOUT (GCO) DETAIL  
NTS(5) WALL CLEANOUT (WCO) DETAIL  
NTS

C

(4) TRAP PRIMER CONNECTION DETAIL  
NTS(5) WALL CLEANOUT (WCO) DETAIL  
NTS

D

(6) FLOOR CLEANOUT (FCO) DETAIL  
NTS

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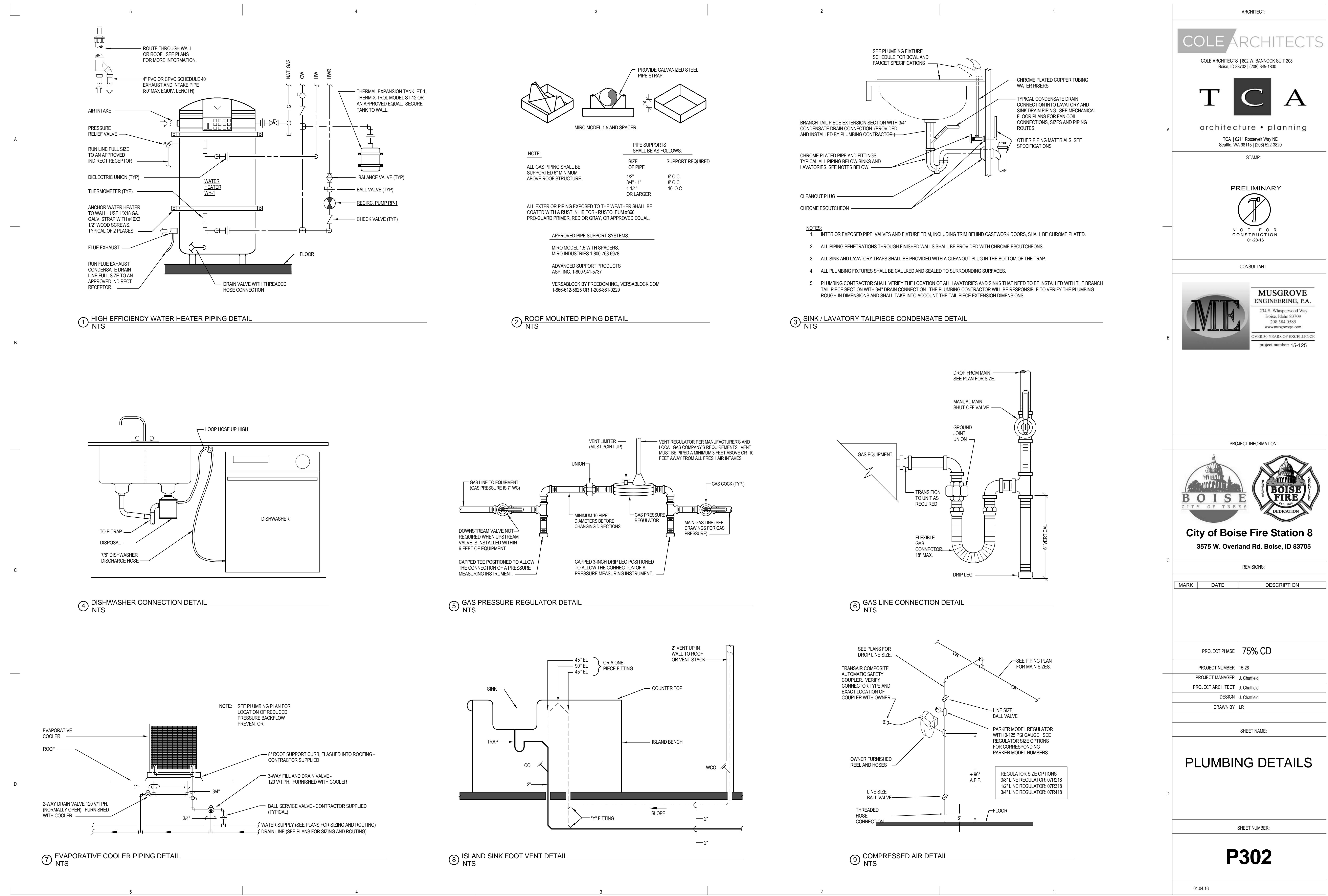
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project number: 15-125

PROJECT INFORMATION:

BOISE  
CITY OF TREES

EST. 1864

DEDICATION

City of Boise Fire Station 8

3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

PROJECT PHASE

75% CD

PROJECT NUMBER 15-28

PROJECT MANAGER J. Chatfield

PROJECT ARCHITECT J. Chatfield

DESIGN J. Chatfield

DRAWN BY LR

SHEET NAME:

PLUMBING  
SCHEMES

P401

01.04.16

| PLUMBING FIXTURE SCHEDULE |   |                 |       |       |           |   |   |
|---------------------------|---|-----------------|-------|-------|-----------|---|---|
| SYMBOL                    | FIXTURE DESCRIPTION   | CONNECTION SIZE |       |       |           | MANUFACTURER / MODEL NUMBER / DESCRIPTION / ADDITIONAL COMMENTS |   |
|                           |   | WASTE           | VENT  | TRAP  | CW        |   |   |
| D-1                       | DISPOSER  | 2               | 1 1/2 | 1 1/2 | -         | -   | PROVIDED BY OTHERS, INSTALLED BY CONTRACTOR.  |
| DCBP-1                    | DOUBLE CHECK BACKFLOW PREVENTER   | --              | --    | --    | SEE PLANS | --  | WATTS SERIES LF 007 DOUBLE CHECK VALVE ASSEMBLY WITH REPLACEABLE SEATS AND SEAT DISCS, CAST BRONZE BODY CONSTRUCTION - 1/2" THRU 2", 2 1/2" THRU 10" 757 SERIES. PROVIDE WITH STRAINER, LEAD FREE.  |
| DF-1                      | DRINKING FOUNTAIN WITH BOTTLE FILLING STATION (INTERIOR DUAL BUBBLERS) (ELECTRIC WATER COOLER) (ADA COMPLIANT) (HIGHFLOW) | 1 1/2           | 1 1/2 | 1 1/2 | 1/2       | --  | ELKAY MODEL LZSLT8WSLK HIGH/LOW COOLER WITH BOTTLE FILLING STATION WITH FLEXI-GUARD STREAMSAVER BUBLER, OPERATED BY FRONT OR SIDE PUSH BARS AND BOTTLE FILLING STATION OPERATED BY SENSOR ACTIVATION WITH AUTOMATIC 30-SECOND SHUT-OFF TIMER, 115 VOLTS, 4.5 AMP, 60 HERTZ, AND FILTER. PROVIDE WITH JAY R. SMITH 0834 FLOOR MOUNTED SUPPORT CARRIER.   |
| DW-1                      | DISHWASHER  | --              | --    | --    | --        | 1/2   | PROVIDED BY OTHERS, CONNECT WASTE TO DISPOSAL. SEE DETAIL SHEET P302.   |
| ET-1                      | EXPANSION TANK  | --              | --    | --    | 3/4       | --  | AMTROL THERM-X-TROL ST-12, OR APPROVED EQUAL, NON ASME SERIES THERMAL EXPANSION ABSORBER, ANTIMICROBIAL LINER, AND 5 YEAR WARRANTY.   |
| ES-1                      | EMERGENCY EYE WASH/ SHOWER COMBINATION (FLOOR MOUNTED) (ADA COMPLIANT)  | --              | --    | --    | 1         | 1   | ACORN MODEL S2310 BARRIER FREE COMBINATION SHOWER AND EYE WASH, WITH PULL ROPE AND PUSH FLAG, ABS SHOWERHEAD AND EYE/FACE WASH. PROVIDE WITH DUST COVER AND UNIVERSAL SIGN. PROVIDE WITH FD-1 AND MIXING VALVE TMV-33, 1 1/4" T.W.  |
| FCO                       | FLOOR CLEANOUT  | SEE PLANS       | --    | --    | --        | --  | JAY R. SMITH 4020 SERIES WITH ADJUSTABLE TOP AND ABS PLUG. PROVIDE WITH FIGURE NUMBER 9912 FOR HEIGHT ADJUSTMENT AFTER CONCRETE POUR.   |
| FD-1                      | FLOOR DRAIN (CONCRETE FLOOR)  | 2               | 2     | 2     | --        | --  | JAY R. SMITH FIGURE NUMBER 2005Y-A05NB: NO-HUB OUTLET, 5" ROUND, NICKEL BRONZE FINISH, WITH ADJUSTABLE STRAINER AND TRAP PRIMER. INSTALL TOP OF DRAIN 1/8" BELOW FINISH FLOOR AND CAULK EDGE.   |
| FS-1                      | FLOOR SINK (HALF GRATE) (6" DEEP) (FOOT TRAFFIC RATED)  | 2               | 2     | 2     | --        | --  | JAY R. SMITH FIGURE NUMBER 3100Y-12: CAST IRON RECEPTOR, ALUMINUM DOME STRAINER, NICKEL BRONZE GRATE, AND TRAP PRIMER. INSTALL TOP OF SINK 1/8" BELOW FINISH FLOOR AND CAULK EDGE.  |
| GCO                       | GRADE CLEANOUT (NON-PAVED AREAS)  | SEE PLANS       | --    | --    | --        | --  | JAY R. SMITH 4220 SERIES WITH ABS PLUG.   |
| GCO                       | GRADE CLEANOUT (PAVED AREAS) (VEHICULAR TRAFFIC)  | SEE PLANS       | --    | --    | --        | --  | JAY R. SMITH 4250 SERIES, ROUND FLANGED HOUSING WITH HEAVY DUTY CAST IRON COVER. FURNISH WITH ABS PLUG. COVER TO BE INSCRIBED "SAN".  |
| HB-1                      | HOSE BIBB (EXTERIOR) (NON-FREEZE)   | --              | --    | --    | 3/4       | --  | WOODFORD MODEL 67 - EXPOSED STYLE WITH MODEL 60HA BACKFLOW PREVENTER, 3/4" INLET, AND CHROME PLATED. PROVIDE WITH TEE KEY AND INSTALL AT 18" ABOVE GRADE.   |
| HB-2                      | HOSE BIBB (INTERIOR)  | --              | --    | --    | 3/4       | --  | WOODFORD MODEL 26 - EXPOSED STYLE WITH 3/4" INLET, AND CHROME PLATED. PROVIDE WITH METAL WHEEL HANDLE AND WOODFORD MODEL 50HF BACKFLOW PREVENTER.   |
| IM-1                      | ICE MACHINE   | INDIRECT        |       |       | 1/2       | --  | PROVIDED BY OTHERS, INSTALLED BY CONTRACTOR. PROVIDE WITH REDUCED PRESSURE BACKFLOW PREVENTER.  |
| LAV-1                     | LAVATORY (COUNTERTOP / CABINET MOUNTED) (ADA COMPLIANT)   | 1 1/2           | 1 1/2 | 1 1/4 | 1/2       | 1/2   | KOHLER PENNINGTON MODEL K-2196-4: VITREOUS CHINA, COUNTERTOP MOUNTED, HOLES ON 4" CENTERS, AND GRID STRAINER. KOHLER CORALIS MODEL K-1519B: 4 1/2" LONG, SINGLE LEVER FAUCET WITH 5 GPM AERATOR. PROVIDE WITH WATTS SERIES USC-B THERMOSTATIC MIXING VALVE, ASSE STANDARD 1070 LISTED, BRONZE BODY, INTEGRAL CHECK VALVES, AND SELECTABLE TEMPERATURE RANGE FROM 80°F TO 110°F. PROVIDE WITH PIPING INSULATION, TRUEBRO LAV GUARD, PLUMBEREX HAND-SHIELD, OR EQUAL. |
| OI-1                      | OIL AND SAND INTERCEPTOR (1500 GALLONS)   | 4               | 3     | --    | --        | --  | PRE-CAST CONCRETE, 1500 GALLON CAPACITY, OIL AND SAND INTERCEPTOR. SEE DRAWING FOR DETAILS. NO SPLIT DESIGN VAULTS WITH GASKETS BELOW FLUID LEVEL ALLOWED.  |
| RD-1                      | ROOF DRAIN (SCUPPER W/ ANGLE METAL GRATE)   | --              | --    | --    | --        | --  | JAY R. SMITH FIGURE NUMBER 1510T, 90° THREADED SIDE OUTLET DRAIN WITH ANGLED GRATE, CAST IRON BODY. PROVIDE WITH DOWNSPOUT ADAPTOR FIGURE NUMBER 1550.  |
| RH-1                      | ROOF HYDRANT (NON FREEZE)   | --              | --    | --    | 1         | --  | WOODFORD MODEL RHY2-MS: NON-FREEZE STYLE WITH 3/4" HOSE CONNECTION AND INTEGRAL DOUBLE CHECK BACKFLOW PREVENTER. REQUIRES 1/8" DRAIN HOLE TO BE PIPED TO A DRAIN LOCATION.  |
| RP-1                      | RECIRCULATION PUMP (HOT WATER RETURN SYSTEM)  | --              | --    | --    | 3/4       | --  | BELL AND GOSSETT BRONZE MODEL NFB-10SLW, 115 VOLT, 46 AMPS, 55 WATTS, AND SHALL PROVIDE 4 GPM AT 7 FEET HEAD. INCLUDE 7-DAY PROGRAMMABLE ELECTRONIC TIME CLOCK WITH BATTERY BACKUP, INTERMATIC MODEL GM40AVE. APPROVED ALTERNATE: ARMSTRONG, TACO, GRUNDFOS   |
| RPBP-1                    | REDUCED PRESSURE BACKFLOW PREVENTER   | INDIRECT        |       |       | --        | --  | WATTS SERIES LP009 REDUCED PRESSURE ZONE ASSEMBLY WITH QUARTER TURN BALL VALVES, BRONZE STRAINER, AND AIR GAP. BRONZE BODY CONSTRUCTION - 1/2" THRU 2", PROVIDE WITH STRAINER, LEAD FREE: 2 1/2" THRU 10" 957 SERIES. SEE NOTE 6.   |
| S-1                       | APPARATUS SINK SINGLE COMPARTMENT (14" X 10" X 5") (WALL MOUNTED)   | 2               | 1 1/2 | 1 1/2 | 1/2       | 1/2   | ADVANCED TABCO MODEL 7-PS-71, 5" DEEP, WALL-MOUNTED, STAINLESS STEEL SINK. PROVIDE WITH CHICAGO FAUCET MODEL 629-ABC/P REMOTE RIGID/SWING GOOSENECK SPOUT. PROVIDE CHICAGO FAUCET MODEL 625-SLOABRC/HOT AND COLD WATER PEDAL BOX WITH SHORT PEDALS FOR OPERATION.   |
| S-2                       | DECON SINK - DOUBLE COMPARTMENT, TWO DRAINBOARDS (FLOOR MOUNTED)  | 2               | 1 1/2 | 1 1/2 | 1/2       | 1/2   | ADVANCED TABCO MODEL 94-22-40-18RL: TWO COMPARTMENT, TWO DRAINBOARDS, FLOOR MOUNTED STAINLESS STEEL SINK WITH 14" WATER LEVEL, AND ADJUSTABLE BULLET FEET. PROVIDE WITH CHICAGO FAUCET MODEL DJ18/KABC/P, 18" DOUBLE-JOINT SWING SPOUT AND CHICAGO FAUCET MODEL 629-LESAB SINGLE INLET REMOTE FITTING FOR WALL MOUNTED APPLICATION. PROVIDE CHICAGO FAUCET MODEL 625-SLOABRC/HOT AND COLD WATER PEDAL BOX WITH SHORT PEDALS FOR OPERATION.                          |
| S-3                       | KITCHEN SINK - DOUBLE COMPARTMENT (13" X 16" X 6" EACH) (ADA COMPLIANT)   | 2               | 1 1/2 | 1 1/2 | 1/2       | 1/2   | ELKAY LUSTERTONE MODEL LRAD-3322: 6 1/2" DEEP STAINLESS STEEL SINK. PROVIDE KOHLER K-647-V SINGLE LEVER PULL-DOWN, STAINLESS STEEL SWING SPOUT FAUCET. PROVIDE WITH ELKAY MODEL LK-35 CHROME PLATED TAIPiece AND STAINLESS STEEL BASKET.  |
| S-4                       | PREP SINK - SINGLE COMPARTMENT (15" X 15" X 7")   | 2               | 1 1/2 | 1 1/2 | 1/2       | 1/2   | ELKAY LUSTERTONE MODEL BLR150C: 7" DEEP STAINLESS STEEL SINK. PROVIDE WITH ELKAY MODEL LK0222S, DUAL HANDLE MIXING FAUCET WITH HIGH GOOSENECK SPOUT AND ELKAY MODEL LK-35 CHROME PLATED TAIPiece AND STAINLESS STEEL BASKET.  |
| SA-1                      | SHOCK ABSORBER (WATER HAMMER ARRESTOR)  | --              | --    | --    | --        | --  | JAY R. SMITH FIGURE NUMBER 5005 TO 5050, OR APPROVED EQUAL, SIZED PER FIXTURES SERVED. PROVIDE AN ACCESS PANEL AND A BALL TYPE SHUT-OFF VALVE UPSTREAM OF SHOCK ABSORBER.   |
| SHR-1                     | SHOWER TRIM (PUBLIC STANDARD)   | 2               | 1 1/2 | 2     | 1/2       | 1/2   | MOEN MODEL R375EP15 SINGLE-HANDLE PRESSURE BALANCING SHOWER ONLY (1.5 GPM), POSI-TEMP, 4 PORT CYCLING VALVE WITHOUT VOLUME CONTROL, ADJUSTABLE TEMPERATURE LIMIT STOP, 1/4" TURN STOPS, POLISHED CHROME FINISH, AND VANDAL RESISTANT HEAD, ARM, AND FLANGE.   |
| SHR-2                     | SHOWER TRIM (ADA COMPLIANT)   | 2               | 1 1/2 | 2     | 1/2       | 1/2   | ACORN MODEL 638-ADA BARRIER FREE SHOWER. INCLUDES 54FT-TROL PRESSURE BALANCING MIXING VALVE WITH HIGH LIMIT TEMP. SET TO 107°F. LOW FLOW SHOWER HEAD (1.4 GPM), DIVERTER VALVE, HAND HELD SHOWER SPRAY, FLOW CONTROL, L-SHAPED GRAB BAR, BARRIER FREE ADA COMPLIANT SEAT, SHOWER CURTAIN, INDIVIDUAL STOPS, AND RECESSED SOAP DISH.   |
| SS-1                      | SERVICE SINK (36" X 24" X 10") (FLOOR MOUNTED)  | 3               | 2     | 3     | 1/2       | 1/2   | ACORN TERRAZZO-WARE MODEL TSH-3624: PROVIDE AND INSTALL WITH STAINLESS STEEL BUMPER GUARD, DRAIN GASKET, CHROME FAUCET, 36" HOSE AND WALL HANGER, MOP HANGER, AND 3 SIDE STAINLESS STEEL WALL GUARD.  |

| PLUMBING FIXTURE SCHEDULE |  |                 |       |      |           |   |
|---------------------------|--|-----------------|-------|------|-----------|---|
| SYMBOL                    | FIXTURE DESCRIPTION  | CONNECTION SIZE |       |      |           | MANUFACTURER / MODEL NUMBER / DESCRIPTION / ADDITIONAL COMMENTS   |
|                           |  | WASTE           | VENT  | TRAP | CW        |   |
| ID-1                      | TRENCH DRAIN (10" WIDE) (HEAVY TRAFFIC RATED)                                    | 4               | 2     | 2    | --        | JAY R. SMITH FIGURE NUMBER 9812 10" WIDE TRENCH DRAIN SYSTEM. SLOPE DRAIN SYSTEM WITH INTEGRAL METAL RAIL, PROVIDED WITH END CAPS, OUTLETS, CATCH BASIN (9812G-880-CB24-BP), AND HEAVY DUTY (CLASS C) GALVANIZED STEEL BAR GRATE (MODEL 9812-G). REFER TO ARCHITECTURAL PLAN FOR EXACT LENGTH REQUIREMENTS. |
| TP-1                      | TRAP PRIMER (PRESSURE ACTIVATED) (1 TO 4 TRAPS)                                  | --              | --    | --   | 1/2"      | --  |
| TP-2                      | TRAP PRIMER (FLUSH VALVE PRIMER) (1 TRAP)  | --              | --    | --   | 1/2"      | --  |
| WB-1                      | WALL BOX (WATER SUPPLY TO ICE MAKER)   | --              | --    | --   | 1/2       | --  |
| WB-2                      | WALL BOX (SUPPLY TO AND DRAIN FROM WASHING MACHINE)                              | 2               | 1 1/2 | 2    | 1/2       | 1/2   |
| WC-1                      | WATER CLOSET (DUAL FLUSH TANK) (FLOOR MOUNTED) (COMFORT HEIGHT / ADA)            | 4               | 2     | INT. | 1/2       | --  |
| WC-2                      | WATER CLOSET (DUAL FLUSH VALVE) (FLOOR MOUNTED) (COMFORT HEIGHT / ADA COMPLIANT) | 4               | 2     | INT. | 1         | --  |
| WC-3                      | WATER CLOSET (FLOOR MOUNTED) (COMFORT HEIGHT / ADA)                              | SEE PLANS       | --    | --   | --        | JAY R. SMITH M472T SERIES WITH CAST BRONZE TAPER THREAD PLUG, STAINLESS STEEL ROUND COVER, AND A STAINLESS STEEL VANDAL PROOF SCREW.  |
| WC-4                      | WATER HEATER (NOMINAL 100 GALLON) (NATURAL GAS - HIGH EFFICIENCY)                | --              | --    | --   | SEE PLANS | BRADFORD WHITE MODEL EF-100T-150E-3NA: 150 MBH INPUT, 110V/10, 28" DIAMETER, 78" TALL WITH SIDE CONNECTIONS. PROVIDE WITH PVC CONCENTRIC INTAKE/VENT KIT AND SEISMIC STRAP.   |

| GAS SIZING CHART | | | |
| --- | --- | --- | --- |
| SYMBOL | INPUT (MBH) | RUNOUT SIZE (PSI) (INCHES) | EQUIPMENT CONNECTION SIZES (7" WC) (INCHES) |

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## ELECTRICAL LEGEND - LIGHTING

- REFERENCE FIXTURE SCHEDULE FOR MOUNTING TYPE, MOUNTING HEIGHT, AND FIXTURE TYPE.
- DOUBLE FACE EXIT SIGN, CEILING MOUNTED, PROVIDE UNSWITCHED CONDUCTOR.
  - WALL MOUNTED DOUBLE FACE EXIT SIGN PROVIDE UNSWITCHED CONDUCTOR. MOUNT AT +8'-0" UNO.
  - SINGLE FACE EXIT SIGN, CEILING MOUNTED PROVIDE UNSWITCHED CONDUCTOR.
  - WALL MOUNTED SINGLE FACE EXIT SIGN PROVIDE UNSWITCHED CONDUCTOR. MOUNT AT +8'-0" UNO.
  - ← ARROW INDICATES DIRECTION TO BE SHOWN ON SIGN.
  - 1X4' LIGHT FIXTURE.
  - 1X4' LIGHT FIXTURE, PROVIDE EMERGENCY BALLAST CONNECTED TO AN UNSWITCHED CONDUCTOR.
  - 2X4' LIGHT FIXTURE.
  - 2X4' LIGHT FIXTURE, PROVIDE EMERGENCY BALLAST CONNECTED TO AN UNSWITCHED CONDUCTOR.
  - 2X2' LIGHT FIXTURE.
  - 2X2' LIGHT FIXTURE, PROVIDE EMERGENCY BALLAST CONNECTED TO AN UNSWITCHED CONDUCTOR.
  - STRIP FLUORESCENT LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH.
  - STRIP FLUORESCENT LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH. PROVIDE EMERGENCY BALLAST CONNECTED TO AN UNSWITCHED CONDUCTOR.
  - WALL MOUNTED LIGHT FIXTURE.
  - WALL MOUNTED LIGHT FIXTURE, PROVIDE EMERGENCY BALLAST CONNECTED TO AN UNSWITCHED CONDUCTOR.
  - RECESSED LIGHT FIXTURE.
  - RECESSED LIGHT FIXTURE, PROVIDE EMERGENCY BALLAST CONNECTED TO AN UNSWITCHED CONDUCTOR.
  - ROUND LIGHT FIXTURE.
  - ROUND EMERGENCY LIGHT FIXTURE.
  - WALL MOUNTED LIGHT FIXTURE.
  - WALL MOUNTED EMERGENCY LIGHT FIXTURE.
  - POLE LIGHT HEAD WITH POLE.
  - TIME CLOCK.
  - PHOTO CONTROL CELL LOCATED 12" ABOVE ROOF FACING NORTH.
  - OCCUPANCY SENSOR. PROVIDE RELAYS AND POWER PACKS AS REQUIRED.
  - LED DRIVER.
  - EMERGENCY EGRESS LIGHTING WITH OUT FIXTURE HEADS. CONNECT TO AN UNSWITCHED CONDUCTOR.
  - EMERGENCY EGRESS LIGHTING. CONNECT TO AN UNSWITCHED CONDUCTOR.
  - XXX INDICATES FIXTURE TYPE. REFER TO FIXTURE SCHEDULE.
  - EXTERIOR WALL PACK.
  - EMERGENCY EXTERIOR WALL PACK. PROVIDE EMERGENCY BALLAST CONNECTED TO AN UNSWITCHED CONDUCTOR.

## SECURITY

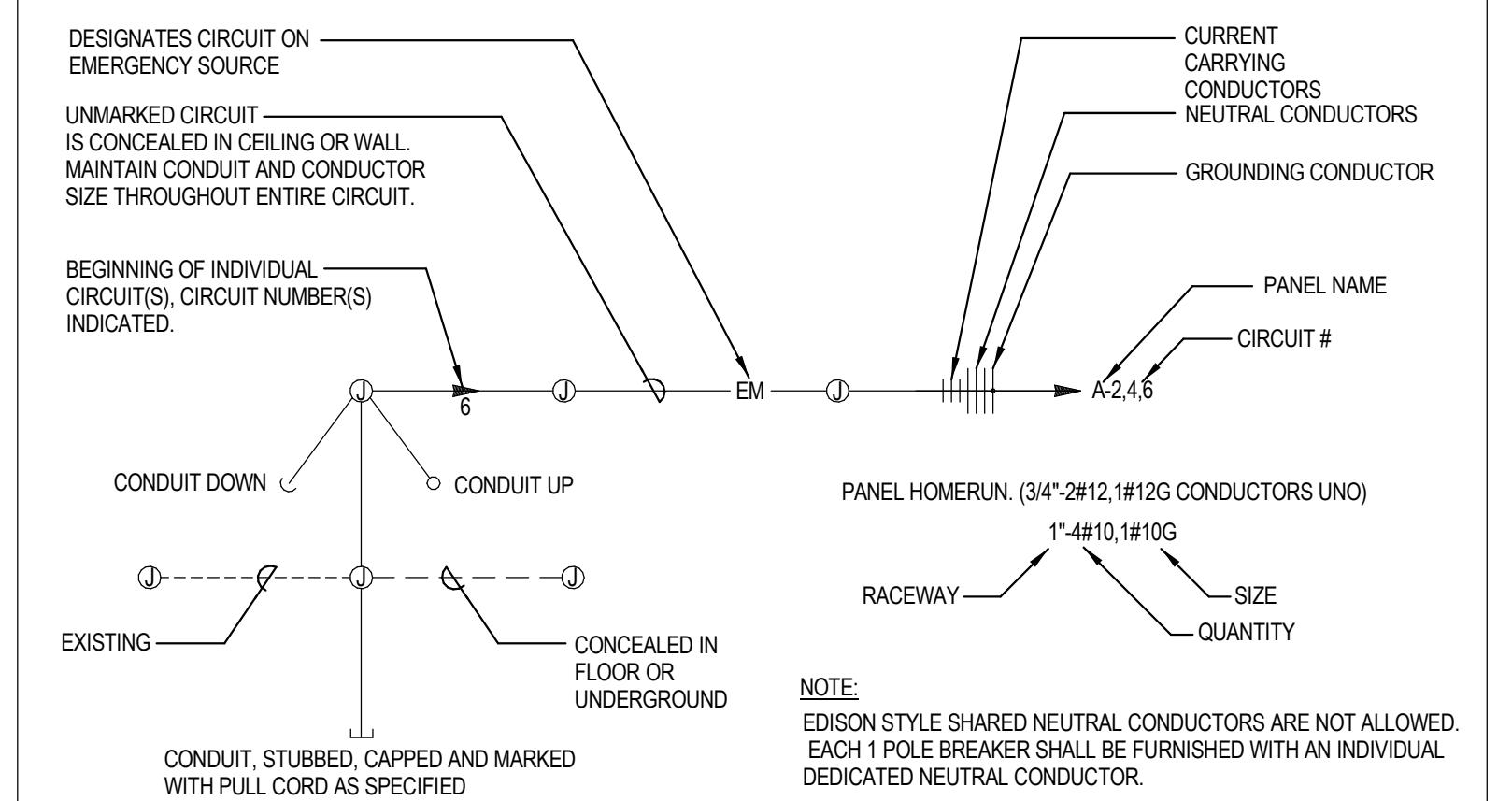
- ADJUSTABLE CAMERA (PAN/TILT/ZOOM).
- FIXED CAMERA.
- CAMERA IN OUTDOOR HOUSING.
- ADJUSTABLE CAMERA (PAN/TILT/ZOOM) IN OUTDOOR HOUSING.
- CCTV OUTLET, +18" UNO.
- CEILING MOUNTED CCTV OUTLET.
- SECURITY SYSTEM KEYPAD CONTROLLER COORDINATE BOX SIZE AND MUDRING WITH VENDOR.
- CARD READER.
- CEILING MOUNTED MOTION SENSOR.
- WALL MOUNTED MOTION SENSOR, MOUNTING HEIGHT INDICATED.
- PANIC BUTTON - MOUNTED UNDER COUNTER.

NOTE: THIS IS A STANDARD LIST OF COMMONLY USED ELECTRICAL SYMBOLS. SOME OF THE SYMBOLS SHOWN MAY NOT HAVE BEEN USED IN THIS DRAWING PACKAGE.

## DEVICES

- S1 SWITCH, TYPE AS INDICATED. +46" AFF.
- 2 DOUBLE POLE
- 3 3-WAY
- 4 4-WAY
- K KEYED
- P PILOT LIGHT
- D DIMMER
- HP HORSEPOWER RATED
- TO THERMAL OVERLOAD
- LV LOW VOLTAGE
- OS OCCUPANCY SENSOR
- OR LOW VOLTAGE, MOMENTARY OVERRIDE
- VS VACANCY SENSOR
- a SUPERSCRIPT INDICATES LIGHTS TO BE SWITCHED TOGETHER
- S\$ DUAL LEVEL SWITCHING, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.
- S\$S DUAL LEVEL SWITCHING WITH OCCUPANCY SENSOR, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.
- \$S SINGLE CONVENIENCE OUTLET, +18" AFF UNO.
- \$D DUPLEX CONVENIENCE OUTLET, +18" AFF UNO.
- FLOOR MOUNT DUPLEX CONVENIENCE OUTLET.
- EMERGENCY DUPLEX CONVENIENCE OUTLET, +18" AFF UNO.
- SWITCHED DUPLEX CONVENIENCE OUTLET, +18" AFF UNO.
- FOURPLEX CONVENIENCE OUTLET, +18" AFF UNO.
- FLOOR MOUNT FOURPLEX CONVENIENCE OUTLET.
- C CONNECTION POINT TO EQUIPMENT SPECIFIED. ELECTRICAL CONTRACTOR TO SUPPLY RACEWAY AND CONDUCTORS AND MAKE FINAL CONNECTION TO EQUIPMENT UNDER THIS SECTION. UNO.
- J JUNCTION BOX.
- W WALL MOUNTED PUSH BUTTON, MOUNT AT SWITCH HEIGHT UNO.
- W WALL MOUNTED PUSH BUTTON, MOUNT AT SWITCH HEIGHT UNO.
- M MOTOR STARTER/CONTACTOR, SIZE/POLES NEMA 1 UNO AS INDICATED.
- C COMBINATION STARTER AND DISCONNECT, SIZE/POLES, STARTER SIZE AS INDICATED. NEMA 1 UNO.
- F FUSED DISCONNECT SWITCH, SIZE/POLES, FUSE SIZES AS INDICATED, NEMA 1 UNO.
- F NON-FUSED DISCONNECT SIZE/ POLES AS INDICATED, NEMA 1 UNO.
- T THERMOSTAT, +46" AFF PROVIDE CONDUIT, J-BOX, CONDUCTORS AS REQUIRED TO CONTROL ASSOCIATED UNITS. UNO COORDINATE WITH DIVISION 15.
- T TRANSFORMER.
- P PANELBOARD. SEE SCHEDULE FOR TYPE.
- E EQUIPMENT CABINET, SURFACE MOUNTED.
- E EQUIPMENT CABINET FLUSH MOUNTED.
- S SURFACE MULTI-OUTLET RACEWAY.
- MECHANICAL EQUIPMENT CALL OUT.

## CIRCUITING SYMBOLS



## ONE LINE

- DELTA WYE TRANSFORMER UNO.
- # PANEL NAME VOLTAGE PHASE PANEL BOARD, SEE SCHEDULE FOR TYPE AND SIZE.
- # P CIRCUIT BREAKER, SIZE AND POLES INDICATED.
- 25A 3P INDIVIDUAL BREAKER WITH SHUNT TRIP, SIZE AND POLES INDICATED. NEMA 1 UNO.
- 25A 3P INDIVIDUAL BREAKER, SIZE AND POLES INDICATED. NEMA 1 UNO.
- GFP GROUND FAULT PROTECTION.
- TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION.
- LSIGR ADJUSTABLE BREAKER SETTINGS (PER SPECIFICATIONS):  
L=LONG TIME  
S=SHORT TIME  
I=INSTANTANEOUS  
G=GROUND FAULT  
R=ENERGY REDUCING MAINTENANCE SWITCH  
W=STATUS INDICATOR
- GND GROUND.
- ST SHUNT TRIP COIL.
- M MOTOR.
- OVERHEAD SERVICE DROP.
- XXXAXP GENERATOR SET, MAIN BREAKER SIZE INDICATED.
- ATS AUTOMATIC TRANSFER SWITCH (ATS).
- METER AND BASE.
- NEUTRAL.
- T TRANSFORMER.
- PAD MOUNT TRANSFORMER.

## FIRE ALARM

- F PULL STATION, +44" AFF WITH PRE-ALARM COVER.
- FKH FIRE ALARM HORN, +84" AFF UNO.
- F15 FIRE ALARM STROBE, +84" AFF UNO, STROBE INTENSITY INDICATED. 'C' INDICATES CEILING MOUNTED.
- F15 FIRE ALARM HORN/STROBE, +84" AFF UNO, STROBE INTENSITY INDICATED. 'C' INDICATES CEILING MOUNTED.
- FJB FIRE ALARM BELL, +84" AFF UNO. 'C' INDICATES CEILING MOUNTED.
- FJH FIRE ALARM CHIME, +84" AFF UNO. 'C' INDICATES CEILING MOUNTED.
- F15 FIRE ALARM CHIME/STROBE, +84" AFF UNO, STROBE INTENSITY INDICATED. 'C' INDICATES CEILING MOUNTED.
- EOL END OF LINE RESISTOR.
- FS FLOW SWITCH, PROVIDE MONITOR MODULE AS REQUIRED.
- TS TAMPER SWITCH, PROVIDE MONITOR MODULE AS REQUIRED.
- PS PRESSURE SWITCH, PROVIDE MONITOR MODULE AS REQUIRED.
- FSA FIRE SYSTEM ANNUNCIATOR, FLUSH MOUNTED +54" UNO.
- PIV POST INDICATOR VALVE, PROVIDE MONITOR MODULE AS REQUIRED.
- DHD ELECTROMAGNETIC DOOR HOLDER.
- R RELAY.
- CM CONTROL MODULE.
- MM MONITOR MODULE.
- FBK FIRE ALARM KNOX BOX.
- FACP FIRE ALARM CONTROL PANEL.
- GFCI GROUND FAULT CIRCUIT INTERRUPTER.
- GFI GROUND FAULT INTERRUPTER.
- HH HAND-HOLE AUTO.
- HVAC HEATING, VENTILATION, & AIR CONDITIONING.
- IG ISOLATED GROUND.
- PJP POWER COMPANY JUNCTION BOX.
- KA KILOAMP.
- KWH KILOWATT HOUR.
- LCP LIGHTING CONTROL PANEL.
- MB MAIN BREAKER.
- MCBC MAIN CIRCUIT BREAKER.
- MDC MAIN DISTRIBUTION CENTER.
- MLO MAIN LUGS ONLY.
- MH METAL HALIDE.
- MSB MAIN SWITCH BOARD.
- MTG MEETING POINT.
- N NEUTRAL.
- NEW.
- NC NORMALLY CLOSED.
- NEC NATIONAL ELECTRICAL CODE.
- NIC NOT IN CONTRACT.
- NL NIGHT LIGHT.
- NO NORMALLY OPEN.
- NTS NOT TO SCALE.
- OH ON HOLD.
- OS OCCUPANCY SENSOR.
- P POLES.
- PC PHOTO-CONTROL.
- PVC POLYVINYL CHLORIDE.
- PWR POWER.
- RE REFERENCE.
- REC RECEPTACLE.
- R RELOCATED.
- SF SQUARE FEET.
- TBD TO BE DETERMINED.
- TDR TIME DELAY RELAY.
- TK TOE KICK.
- TSP TWISTED SHIELDED PAIR.
- TRT TRIPLE TUBE.
- TTB TELEPHONE TERMINAL BOARD.
- TYP TYPICAL.
- UC UNDERCABINET.
- UG UNDERGROUND.
- V VOL.
- VA VOL-AMPERE.
- W WATT.
- WG WIRE GUARD.
- WP WEATHER PROOF/NEMA 3R.

## ELECTRICAL ABBREVIATIONS

- | Sheet Number | Sheet Name                            |
|--------------|---------------------------------------|
| E000         | ELECTRICAL COVER SHEET                |
| E001         | LIGHTING COMPLIANCE REPORT            |
| E101         | ELECTRICAL SITE PLAN                  |
| E201         | 1ST FLOOR FIRE ALARM PLAN             |
| E202         | 2ND FLOOR FIRE ALARM PLAN             |
| E203         | 1ST FLOOR LIGHTING PLAN               |
| E204         | 2ND FLOOR LIGHTING PLAN               |
| E205         | 1ST FLOOR MECHANICAL POWER PLAN       |
| E206         | 2ND FLOOR MECHANICAL POWER PLAN       |
| E207         | 1ST FLOOR POWER PLAN                  |
| E208         | 2ND FLOOR POWER PLAN                  |
| E209         | 1ST FLOOR SPECIAL SYSTEMS PLAN        |
| E210         | 2ND FLOOR SPECIAL SYSTEMS PLAN        |
| E300         | ELECTRICAL ROOF PLAN                  |
| E400         | ONE-LINE DIAGRAM/ELECTRICAL SCHEDULES |
| E401         | ELECTRICAL SCHEDULES                  |
| E402         | ELECTRICAL SCHEDULES                  |
| E500         | ELECTRICAL DETAILS                    |
| E501         | ELECTRICAL DETAILS                    |
| E502         | ELECTRICAL DETAILS                    |

## COMMUNICATIONS

- #D,#T TELEPHONE/DATA OUTLET, +18" AFF UNO. FOUR-SQUARE DEEP TYPE BOX WITH SINGLE GANG MUDRING, WITH QUANTITY OF DATA (#D) AND TELEPHONE (#T) CABLES INDICATED.
- FLOOR MOUNTED TELEPHONE/DATA OUTLET.
- I INTERCOM.
- C CEILING MOUNTED SPEAKER WITH BACKBOX.
- W WALL MOUNTED SPEAKER, WITH BACKBOX, +80" UNO.
- HVOLUME CONTROL, MOUNT AT SWITCH HEIGHT UNO. FOUR-SQUARE DEEP TYPE BOX WITH SINGLE GANG MUDRING.
- HTV TELEVISION OUTLET, +18" AFF UNO. FOUR-SQUARE TYPE BOX WITH SINGLE GANG MUDRING.
- TV CEILING MOUNTED TELEVISION OUTLET.
- TTB TELEPHONE TERMINAL BOARD.

NOTE: PROVIDED/ PROVIDED AND INSTALLED/ PROVIDED AND INSTALLED

THIS IS A STANDARD LIST OF COMMONLY USED ELECTRICAL ABBREVIATIONS. SOME OF THE ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED IN THIS DRAWING PACKAGE.

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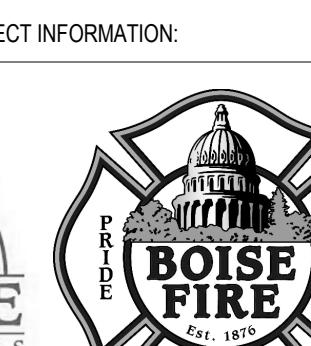
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City of Boise Fire Station 8

3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

MARK DATE DESCRIPTION

PROJECT PHASE 75% CD

PROJECT NUMBER 15-28

PROJECT MANAGER J. Chatfield

PROJECT ARCHITECT J. Chatfield

DESIGN J. Chatfield

DRAWN BY RM/MTM

SHEET NAME:

E000

01.04.16

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REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

PROJECT PHASE: 75% CD

PROJECT NUMBER: 15-28

PROJECT MANAGER: J. Chatfield

PROJECT ARCHITECT: J. Chatfield

DESIGN: J. Chatfield

DRAWN BY: RM/TM

SHEET NAME:

**LIGHTING  
COMPLIANCE  
REPORT**

E001

01.04.16

## ENERGY CODE COMMISSIONING COMPLIANCE NOTES

### SECTION 408 SYSTEM COMMISSIONING

IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL BELOW NOTED DOCUMENTS WITHIN 90 DAYS OF CERTIFICATE OF OCCUPANCY:

A. AS-BUILT DRAWINGS - DRAWINGS SHALL INCLUDE THE LOCATION AND PERFORMANCE DATA OF ALL PIECES OF MECHANICAL EQUIPMENT.

B. OPERATING AND MAINTENANCE MANUALS - MANUALS SHALL INCLUDE THE FOLLOWING:

1. SUBMITTAL DATA ON ALL PIECES OF EQUIPMENT REQUIRING MAINTENANCE.
2. MANUFACTURER'S OPERATIONS AND MAINTENANCE DATA ON ALL PIECES OF EQUIPMENT. ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
3. NAME AND ADDRESS AND PHONE NUMBER OF AT LEAST ONE (1) SERVICE PROVIDED.
4. LIGHTING CONTROL SYSTEMS MAINTENANCE AND CALIBRATION INFORMATION INCLUDING WIRING DIAGRAMS, EQUIPMENT AND SYSTEM SCHEMATICS, AND CONTROL SEQUENCES OF OPERATIONS. DESIRED OR FIELD DETERMINED SETPOINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT ALL CONTROL DEVICES, OR FOR DIGITAL CONTROL SYSTEMS, IN THE SYSTEM PROGRAMMING INSTRUCTIONS.
5. A NARRATIVE ON HOW EACH LIGHTING SYSTEM IS INTENDED TO OPERATE, INCLUDING RECOMMENDED SETPOINTS.

C. LIGHTING SYSTEM FUNCTIONAL TESTING REQUIREMENTS

FUNCTIONAL TESTING - ALL AUTOMATIC LIGHTING CONTROL SYSTEM SHALL BE FULLY TESTED TO ENSURE THE CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PIROGRAMMED, AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.

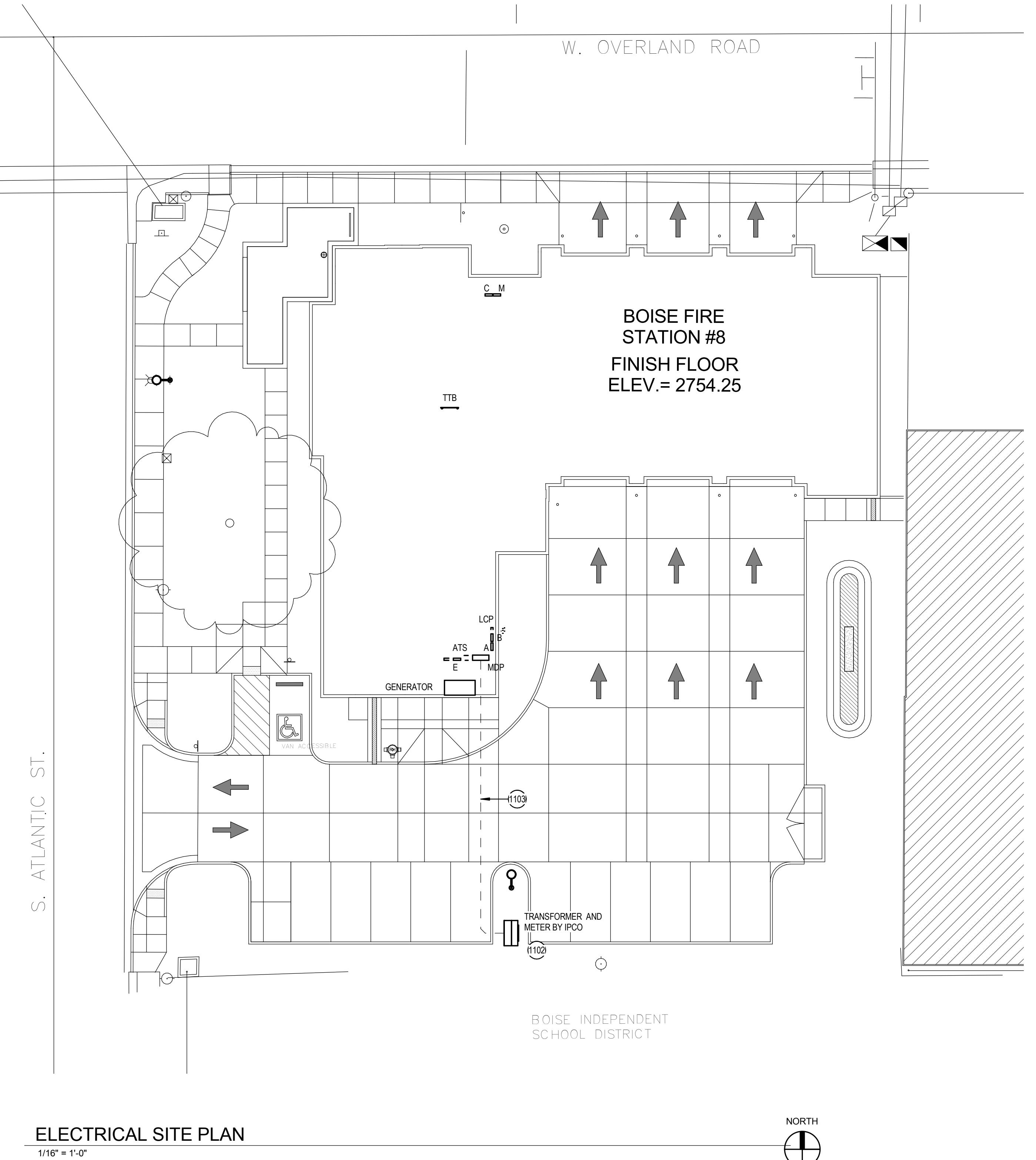
THE APPROVED PARTY THAT WILL CONDUCT THE FUNCTIONAL TESTING ON THE AUTOMATIC LIGHTING CONTROL SYSTEM SHALL BE

WHERE OCCUPANT SENSORS, TIME SWITCHES, PROGRAMMABLE CONTROLS, PHOTORESISTORS OR DAYLIGHTING CONTROLS ARE INSTALLED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:

1. CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME-OUT ADJUSTMENTS FOR OCCUPANT SENSORS YIELD ACCEPTABLE PERFORMANCE.
2. CONFIRM THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.
3. CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTORESISTOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON THE AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS SPECIFIED.

D. FINAL LIGHTING SYSTEM FUNCTIONAL REPORT - A REPORT OF TEST PROCEDURES AND RESULTS IDENTIFIED AS THE "FINAL LIGHTING CONTROL REPORT" SHALL BE DELIVERED TO THE BUILDING OWNER. THE REPORT SHALL INCLUDE THE FOLLOWING:

1. LIST OF FUNCTIONAL TESTS USED DURING THE COMMISSIONING PROCESS ON EACH PIECE OF EQUIPMENT.
2. RESULTS OF ALL FUNCTIONAL TESTS ON ALL PIECES OF EQUIPMENT.
3. LIST OF DEFICIENCIES FOUND AND CORRESPONDING CORRECTIVE MEASURES EITHER IMPLEMENTED OR PROPOSED ON EACH PIECE OF EQUIPMENT.
4. LIST OF EQUIPMENT NOT ABLE TO BE FUNCTIONALLY TESTED DUE TO CURRENT CLIMATE CONDITIONS. THESE PIECES OF EQUIPMENT WILL FUNCTIONALLY TESTED ONCE CLIMATE CHANGES ALLOW.



## GENERAL NOTES

- A. CONTRACTOR SHALL COORDINATE WITH AN UNDERGROUND LOCATING SERVICE PRIOR TO COMMENCING WORK. COORDINATE WITH OTHER SITE DISCIPLINES.
- B. ROUTE CONDUITS IN COMMON TRENCH WHERE POSSIBLE. RE-TRENCHING DETAIL.
- C. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
- D. SITE LIGHTING AND UTILITY EQUIPMENT SHOWN IN APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS, PROPERTY LINES, AND UTILITY COMPANIES PRIOR TO ROUGH-IN.
- E. PROVIDE PULL-LINE IN ALL EMPTY CONDUITS.

## KEYED NOTES

- SYMBOL USED FOR NOTE CALLOUT.  
 1102 PAD MOUNTED TRANSFORMER, PAD, AND METER BY IDAHO POWER COMPANY.  
 1103 UNDERGROUND SECONDARY, RE: ONE-LINE

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City of Boise Fire Station 8  
3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

PROJECT PHASE 75% CD

|                   |              |
|-------------------|--------------|
| PROJECT PHASE     | 75% CD       |
| PROJECT NUMBER    | 15-28        |
| PROJECT MANAGER   | J. Chatfield |
| PROJECT ARCHITECT | J. Chatfield |
| DESIGN            | J. Chatfield |
| DRAWN BY          | RM/TM        |

SHEET NAME:

ELECTRICAL SITE PLAN

SHEET NUMBER:

E101

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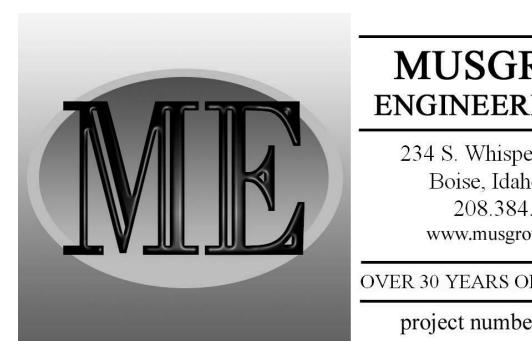
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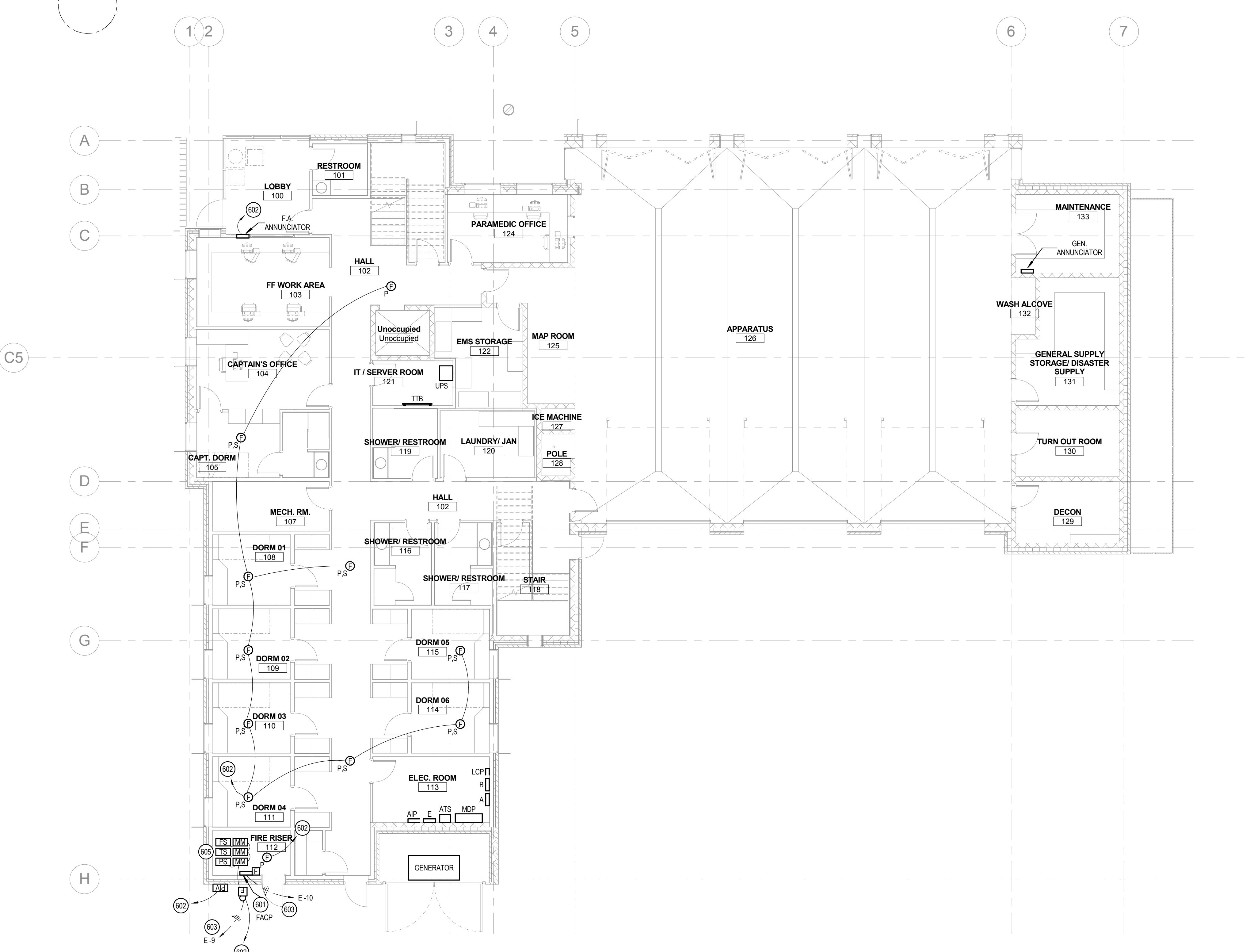
## GENERAL NOTES

- A. INSTALL PLENUM RATED FIRE ALARM CONDUCTORS FROM DEVICES INDICATED TO FIRE ALARM CONTROL PANEL OR NAC EXTENDER PANEL(S) AS REQUIRED. STUB 3/4" CONDUIT FROM DEVICE TO VOID ABOVE CEILING. PROVIDE NAC EXTENDER PANELS (QUANTITY AS REQUIRED) IN LOCATIONS INDICATED AND CIRCUITING AS REQUIRED FOR A COMPLETE INSTALLATION. CIRCUIT THE FIRE ALARM NOTIFICATION AND INITIATION DEVICES PER THE ELECTRICAL SPECIFICATIONS. FURNISH AND INSTALL ALL APPURTENANCES AND PROGRAMMING REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO ELECTRICAL FIRE ALARM SPECIFICATIONS FOR SYSTEM REQUIREMENTS AND SUBMITTAL PROCEDURES.
- B. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS. EXISTING FURRED OUT WALLS AND EXISTING ACCESSIBLE CEILINGS. USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED, UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.

## KEYED NOTES

○ SYMBOL USED FOR NOTE CALLOUT.

- 601 FIRE ALARM CONTROL PANEL.  
602 TO FIRE ALARM CONTROL PANEL.  
603 PROVIDE RED HANDLE, LOCKOUT TYPE CIRCUIT BREAKER IN PANEL AT POSITION INDICATED.  
605 COORDINATE QUANTITY OF TAMPER SWITCHES, FLOW SWITCHES, AND PRESSURE SWITCHES WITH FIRE SPRINKLER CONTRACTOR. PROVIDE ALL REQUIRED MONITOR MODULES.

1ST FLOOR FIRE ALARM PLAN  
1/8" = 1'-0"

NORTH

1ST FLOOR FIRE  
ALARM PLAN

SHEET NUMBER:

E201

01.04.16

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## GENERAL NOTES

- A. INSTALL PLENUM RATED FIRE ALARM CONDUCTORS FROM DEVICES INDICATED TO FIRE ALARM CONTROL PANEL OR NAC EXTENDER PANEL(S) AS REQUIRED. STUB 3/4" CONDUIT FROM DEVICE TO VOID ABOVE CEILING. PROVIDE NAC EXTENDER PANELS (QUANTITY AS REQUIRED) IN LOCATIONS INDICATED AND CIRCUITING AS REQUIRED FOR A COMPLETE INSTALLATION. CIRCUIT THE FIRE ALARM NOTIFICATION AND INITIATION DEVICES PER THE ELECTRICAL SPECIFICATIONS. FURNISH AND INSTALL ALL APPURTENANCES AND PROGRAMMING REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO ELECTRICAL FIRE ALARM SPECIFICATIONS FOR SYSTEM REQUIREMENTS AND SUBMITTAL PROCEDURES.
- B. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS, EXISTING FURRED OUT WALLS AND EXISTING ACCESSIBLE CEILINGS. USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED, UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.

## KEYED NOTES

SYMBOL USED FOR NOTE CALLOUT.

602 TO FIRE ALARM CONTROL PANEL.

609 MOUNT HEAT DETECTOR WITHIN 18" OF SPRINKLER HEAD AT THE TOP OF THE SHAFT.

610 SMOKE DETECTOR MOUNTED AT THE TOP OF THE SHAFT.

614 PROVIDE AND INSTALL MONITOR MODULE FOR SHUNT TRIP VOLTAGE, CONTROL MODULES FOR ACTIVATION OF ELEVATOR SHUNT TRIP, FIRE HAT, PRIMARY RECALL, SECONDARY RECALL AND ALL OTHER RELAYS AND HARDWARE REQUIRED.

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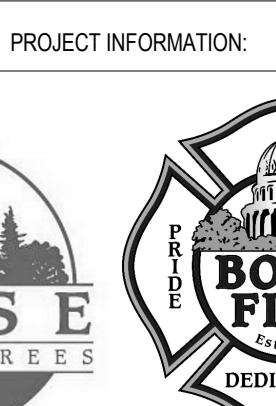
CONSULTANT:



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City of Boise Fire Station 8  
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REVISIONS:

| MARK | DATE | DESCRIPTION |
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|      |      |             |

PROJECT PHASE | 75% CD

PROJECT NUMBER | 15-28

PROJECT MANAGER | J. Chatfield

PROJECT ARCHITECT | J. Chatfield

DESIGN | J. Chatfield

DRAWN BY | RM/TM

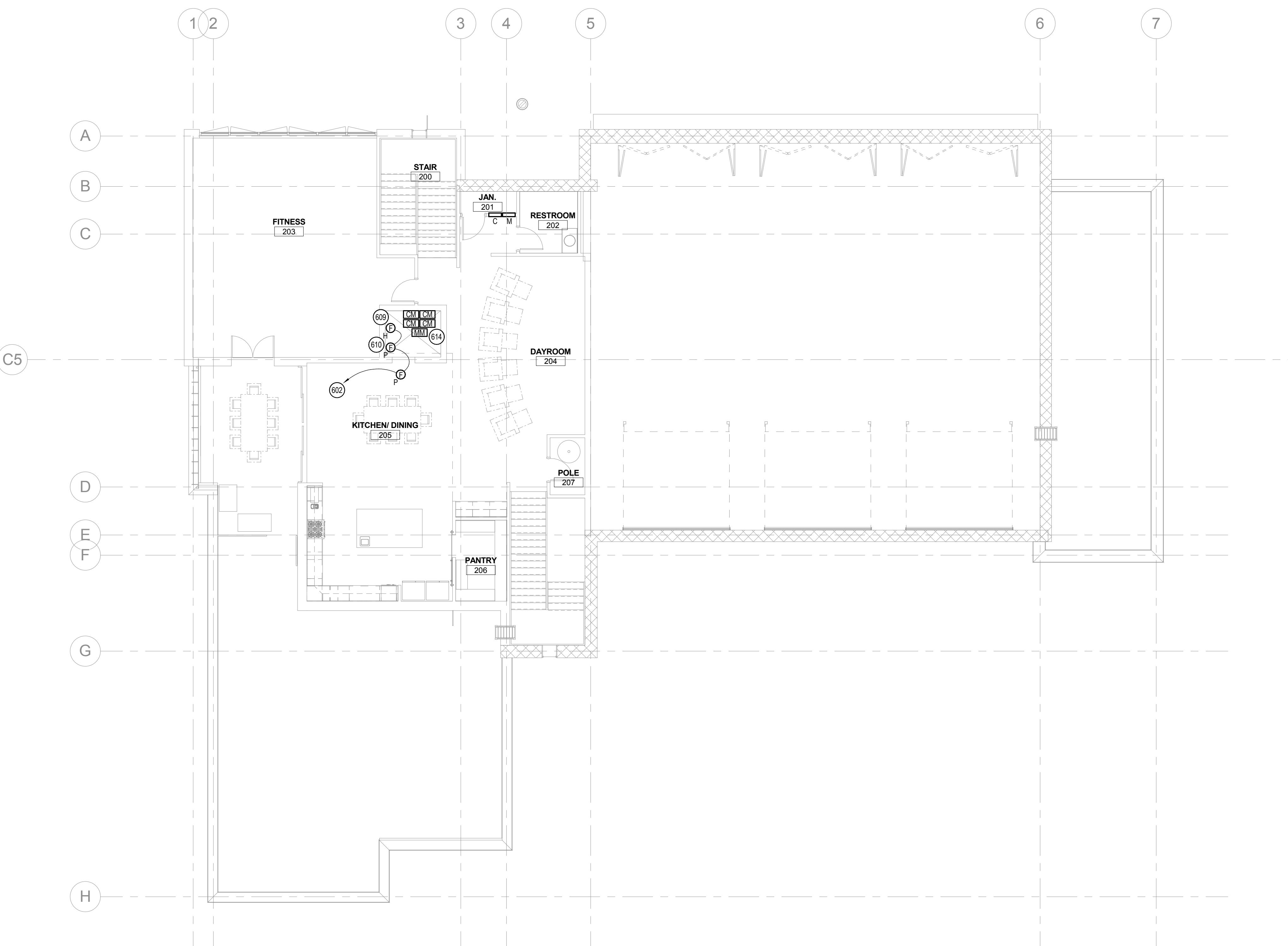
SHEET NAME:

2ND FLOOR FIRE  
ALARM PLAN

SHEET NUMBER:

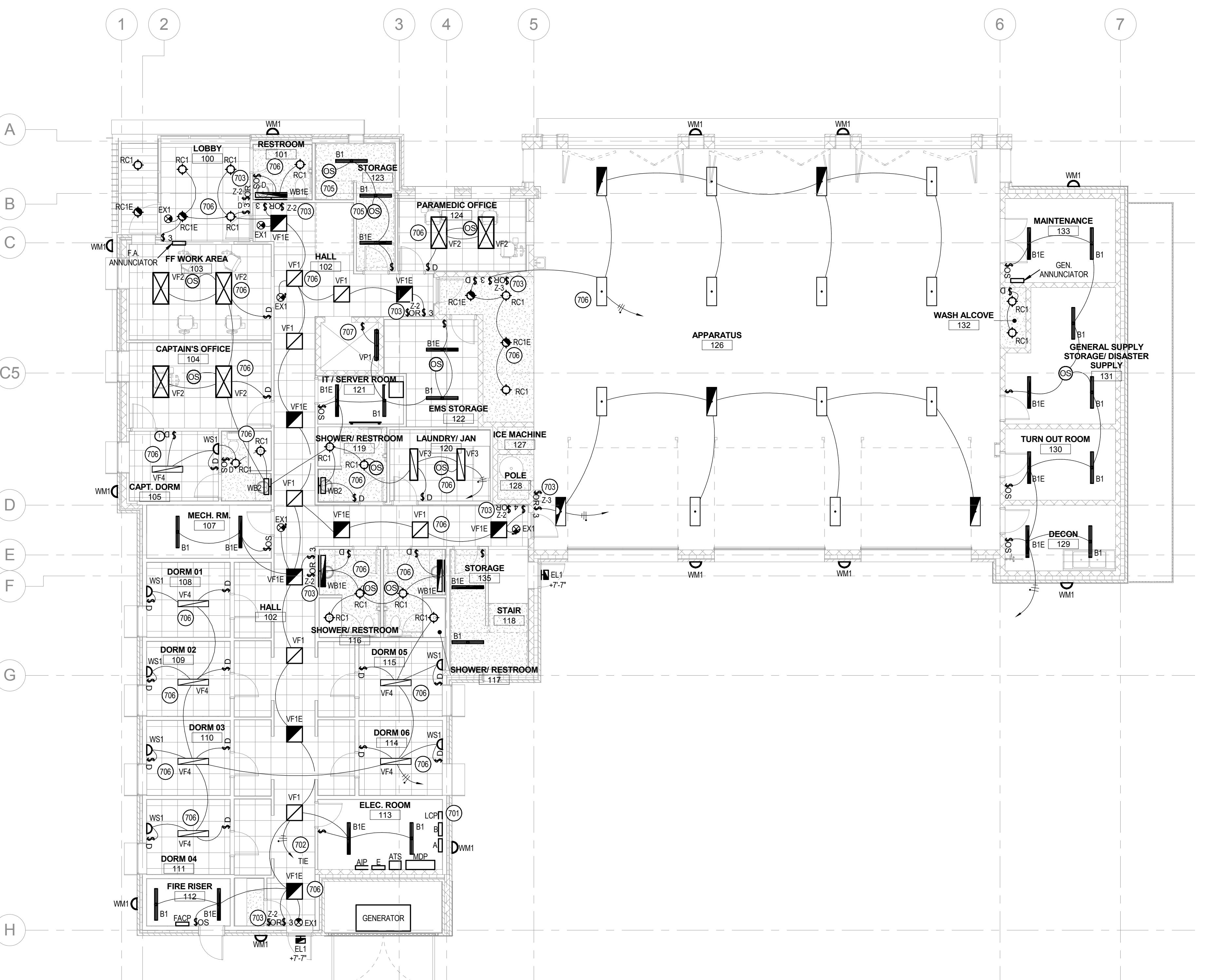
E202

01.04.16



2ND FLOOR FIRE ALARM PLAN  
1/8" = 1'-0"

NORTH



1ST FLOOR LIGHTING PLAN  
1/8" = 1'-0"



## GENERAL NOTES

- A. THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE: THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING CONTRACTORS PRIOR TO ROUGH-IN. REFER TO ADN COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE CONTRACTOR.
- B. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS. EXISTING FURRED OUT WALLS AND EXISTING ACCESSIBLE CEILINGS. USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED, UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.

## KEYED NOTES

SYMBOL USED FOR NOTE CALLOUT.

- 701 LIGHTING CONTROL PANEL, RE-LIGHTING CONTROL PANEL DETAIL
- 702 ROUTE CIRCUIT THROUGH LIGHTING CONTROL PANEL, RE-LIGHTING CONTROL PANEL DETAIL
- 703 PROVIDE MOMENTARY LOW-VOLTAGE OVERRIDE SWITCH WITH CABLING BACK TO LIGHTING CONTROL PANEL AS REQUIRED. SWITCH SHALL BE LABELED "OVERRIDE" AND PROVIDE 2 HOURS OF OPERATION FOR THE LIGHTING DURING NON-BUSINESS HOURS.
- 705 CONNECT SUCH THAT EITHER OCCUPANCY SENSOR WILL CONTROL THE LIGHTING IN THIS ROOM. 1/2" CONDUIT WITH 2#12 TO ALARM INTERFACE PANEL. ACTIVATION OF ALARM SHALL ILLUMINATE ALL LIGHTS ON SELECTED CIRCUITS IRRESPECTIVE OF WHICH POSITION THE OCCUPANCY SENSOR IS CONNECTED TO ONE SWITCHED LEG FOR THE LEVEL FIXTURES. FIRE ALARM INTERFACE PANEL DETAIL. PROVIDE MACHINE PRINTED CLEAR TAPE LABEL AT BALLAST STATING FIXTURE PARALLEL, FEED THROUGH SWITCH AND ALARM INTERFACE PANEL. TURN OFF AT BREAKER FOR MAINTENANCE, FEED FROM ###F WHERE ##F REPRESENTS THE PANEL AND CIRCUIT FEEDING THE FIXTURE.
- 707 ALL CONDUIT, JUNCTION BOXES, AND DEVICES TO BE MOUNTED >60" ABOVE PIT FLOOR. ANY CONDUIT, JUNCTION BOXES, AND DEVICES MOUNTED BELOW >48" SHALL BE NEMA 4 RATED.

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01-28-16

CONSULTANT:

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234 S. Whisewood Way  
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208 354 0585  
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OVER 30 YEARS OF EXCELLENCE  
project number: 15-125

PROJECT INFORMATION:



City of Boise Fire Station 8  
3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
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PROJECT PHASE 75% CD

PROJECT NUMBER 15-28

PROJECT MANAGER J. Chatfield

PROJECT ARCHITECT J. Chatfield

DESIGN J. Chatfield

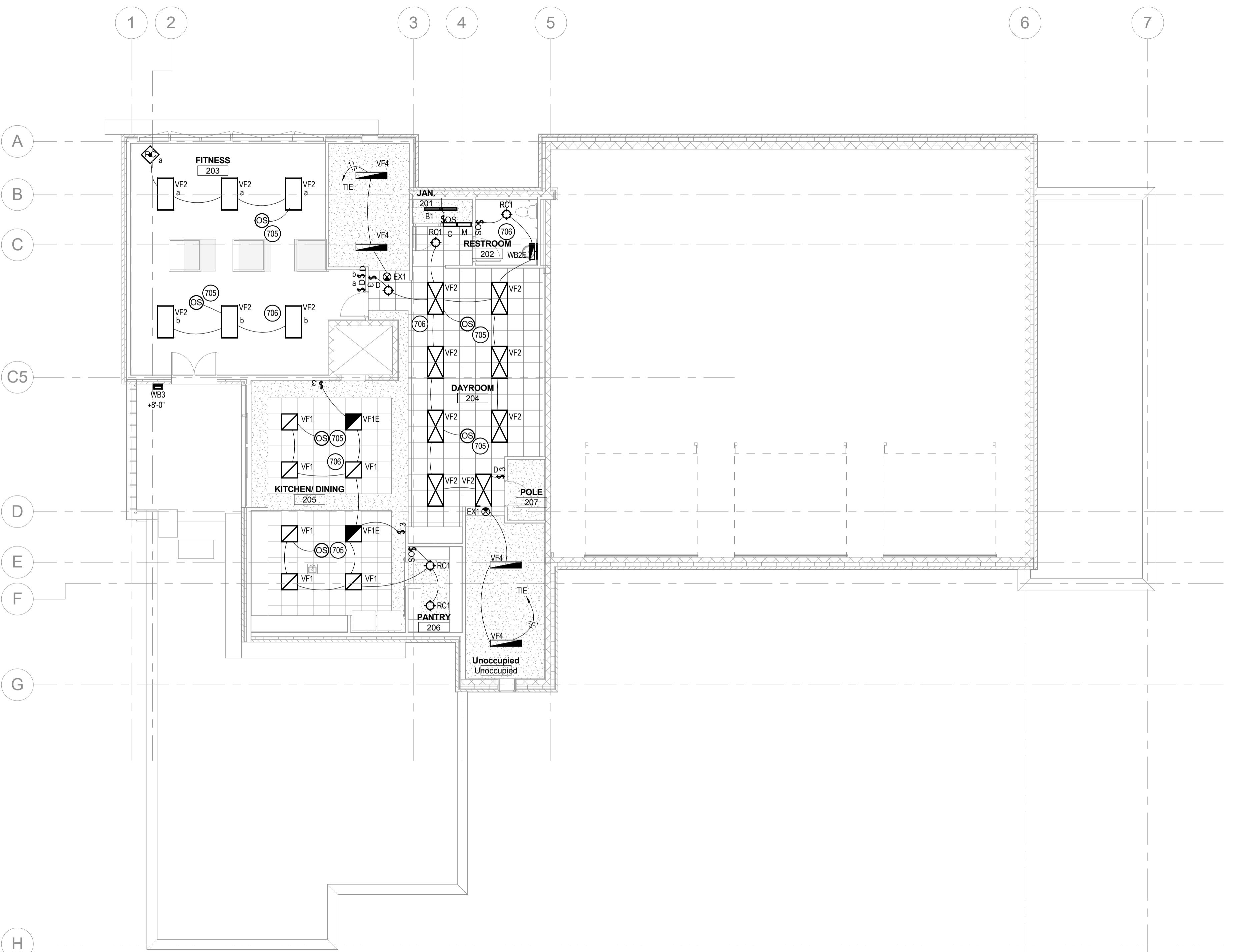
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SHEET NAME:

1ST FLOOR LIGHTING PLAN

E203

01.04.16



2ND FLOOR LIGHTING PLAN  
1/8" = 1'-0"

NORTH

## GENERAL NOTES

A. THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE: THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING CONTRACTORS PRIOR TO ROUGH-IN. REFER TO ADN COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE CONTRACTOR.

B. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS. EXISTING FURRED OUT WALLS AND EXISTING ACCESSIBLE CEILINGS. USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED, UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.

## KEYED NOTES

(○) SYMBOL USED FOR NOTE CALLOUT.

705 CONNECT SUCH THAT EITHER OCCUPANCY SENSOR WILL CONTROL THE LIGHTING IN THIS ROOM.  
706 1/2" CONDUIT WITH #4# TO ALARM INTERFACE PANEL. ACTIVATION OF ALARM SHALL ILLUMINATE ALL LIGHTS ON ASSOCIATED CIRCUIT REGARDLESS OF SWITCH POSITION OR OCCUPANCY SENSOR. CONNECT TO ONE SWITCHED LEG FOR DUAL LEVEL FIXTURES. RE-FIRE ALARM INTERFACE PANEL DETAIL. PROVIDE MACHINE PRINTED CLEAR TAPE LABEL AT BALLAST STATING FIXTURE PARALLEL FED THROUGH SWITCH AND ALARM INTERFACE PANEL. TURN OFF AT BREAKER FOR MAINTENANCE, FED FROM ###. WHERE ### REPRESENTS THE PANEL AND CIRCUIT FEEDING THE FIXTURE.

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CONSULTANT:



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208.354.0585  
[www.musgrovepa.com](http://www.musgrovepa.com)

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project number: 15-125

PROJECT INFORMATION:



City of Boise Fire Station 8  
3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

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PROJECT PHASE 75% CD

PROJECT NUMBER 15-28

PROJECT MANAGER J. Chatfield

PROJECT ARCHITECT J. Chatfield

DESIGN J. Chatfield

DRAWN BY RM/TM

SHEET NAME:

2ND FLOOR LIGHTING  
PLAN

E204

## GENERAL NOTES

- A. THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE: THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING CONTRACTORS PRIOR TO ROUGH-IN. REFER TO ADN COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE CONTRACTOR.
- B. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS. EXISTING PURED OUT WALLS AND EXISTING ACCESSORIES, IF ANY, USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED, UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.
- C. MECHANICAL EQUIPMENT SHOWN IN APPROXIMATE LOCATION. COORDINATE WITH MECHANICAL CONTRACTOR.

## KEYED NOTES

○ SYMBOL USED FOR NOTE CALLOUT.

- 1001 12" CONDUIT TO CORRESPONDING MECHANICAL UNIT. BOX, CONDUIT, AND CONDUCTORS TO BE PROVIDED BY ELECTRICAL CONTRACTOR. LEAVE 12" SLACK AT BOX AND MECHANICAL UNIT. MECHANICAL CONTRACTOR TO MAKE FINAL CONNECTIONS. COORDINATE BOX SIZE AND QUANTITY OF CONDUCTOR(S) WITH MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.

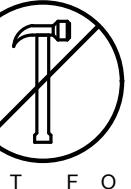
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PROJECT PHASE 75% CD

PROJECT NUMBER 15-28

PROJECT MANAGER J. Chatfield

PROJECT ARCHITECT J. Chatfield

DESIGN J. Chatfield

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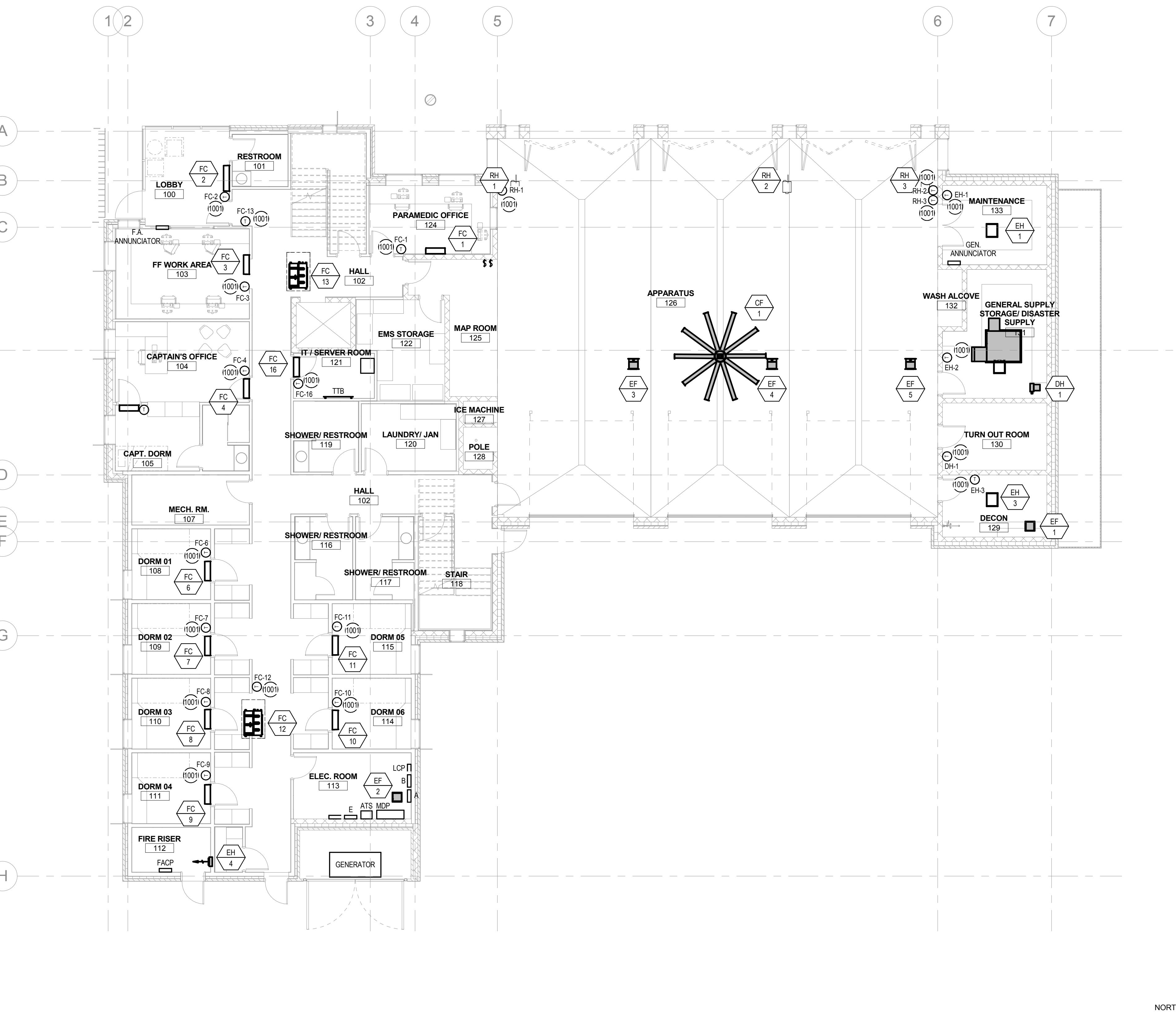
SHEET NAME:

1ST FLOOR  
MECHANICAL POWER  
PLAN

SHEET NUMBER:

E205

01.04.16



1ST FLOOR MECHANICAL POWER PLAN  
1/8" = 1'-0"



## GENERAL NOTES

- A. THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE: THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING CONTRACTORS PRIOR TO ROUGH-IN. REFER TO ADN COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE CONTRACTOR.
- B. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS. EXISTING PURRED OUT WALLS AND EXISTING ACCESSORIES/LEDGES. USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED, UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.
- C. MECHANICAL EQUIPMENT SHOWN IN APPROXIMATE LOCATION. COORDINATE WITH MECHANICAL CONTRACTOR.

## KEYED NOTES

(○) SYMBOL USED FOR NOTE CALLOUT.

- 1001 12" CONDUIT TO CORRESPONDING MECHANICAL UNIT. BOX, CONDUIT, AND CONDUCTORS TO BE PROVIDED BY ELECTRICAL CONTRACTOR. LEAVE 12" SLACK AT BOX AND MECHANICAL UNIT. MECHANICAL CONTRACTOR TO MAKE FINAL CONNECTIONS. COORDINATE BOX SIZE AND QUANTITY OF CONDUCTOR(S) WITH MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.

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OVER 30 YEARS OF EXCELLENCE  
project number: 15-125

PROJECT INFORMATION:



**City of Boise Fire Station 8**  
3575 W. Overland Rd. Boise, ID 83705

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| MARK | DATE | DESCRIPTION |
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|-------------------|--------------|
| PROJECT PHASE     | 75% CD       |
| PROJECT NUMBER    | 15-28        |
| PROJECT MANAGER   | J. Chatfield |
| PROJECT ARCHITECT | J. Chatfield |
| DESIGN            | J. Chatfield |
| DRAWN BY          | RM/TM        |

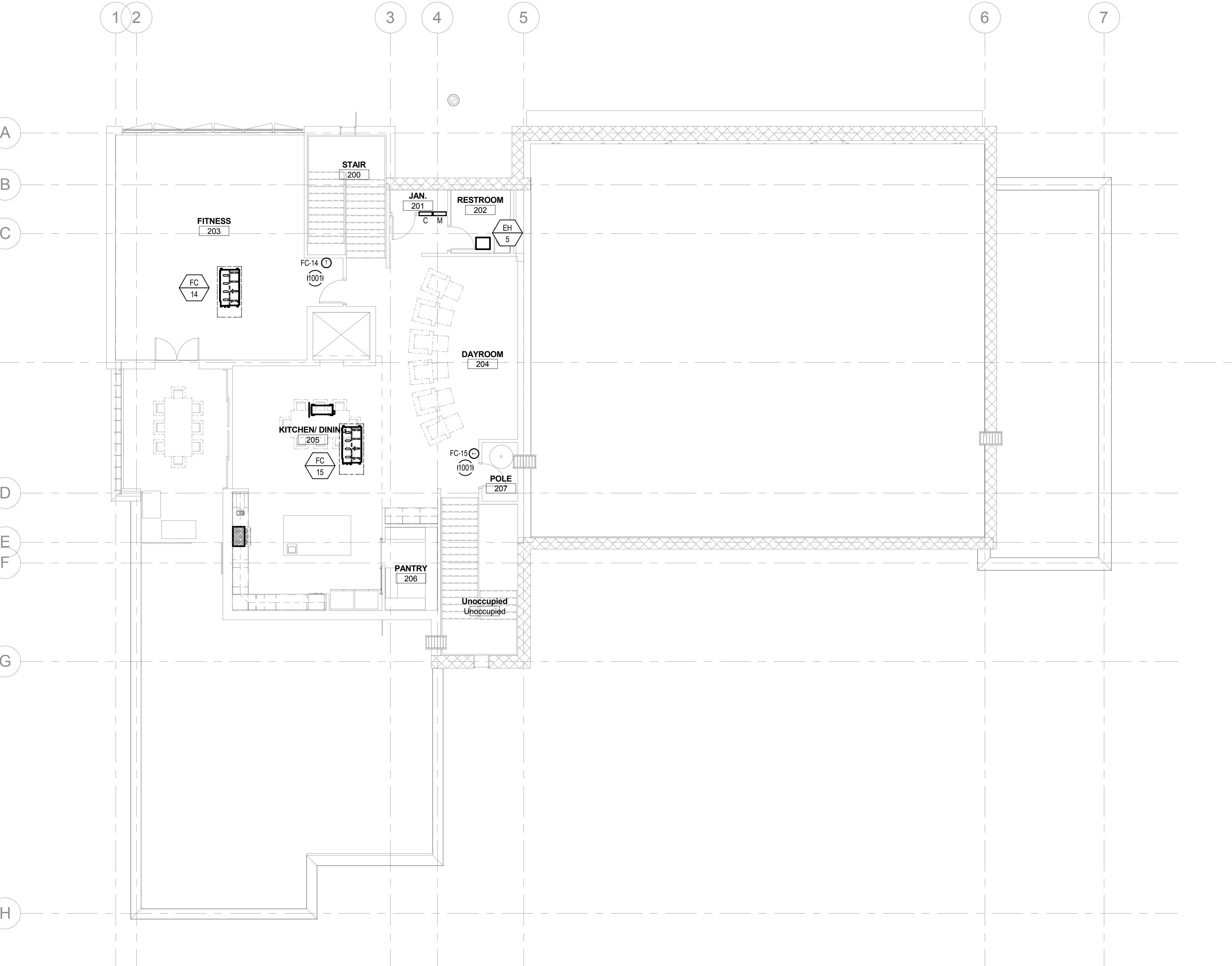
SHEET NAME:

**2ND FLOOR  
MECHANICAL POWER  
PLAN**

SHEET NUMBER:

**E206**

01.04.16



2ND FLOOR MECHANICAL POWER PLAN  
1/8" = 1'-0"

NORTH



## GENERAL NOTES

- A. THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE: THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING CONTRACTORS PRIOR TO ROUGH-IN. REFER TO ADN COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE CONTRACTOR.
- B. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS. EXISTING FURRED OUT WALLS AND EXISTING ACCESSIBLE CEILINGS. USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED, UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.
- C. REFER TO ARCHITECTURAL ELEVATIONS FOR OUTLET HEIGHTS WHERE THE SPECIFIC OUTLET HEIGHT IS NOT INDICATED ON THIS SHEET. REFER TO THE ELECTRICAL LEGEND FOR THE DEFAULT OUTLET HEIGHT WHEN NOT INDICATED ON ELEVATIONS OR ON THIS SHEET.

## KEYED NOTES

(○) SYMBOL USED FOR NOTE CALLOUT.

- 807 CEILING MOUNTED RECEPTACLE FOR OWNER PROVIDED TRUCK POWER CONNECTION.  
 808 RECEPTACLE FOR CEILING MOUNTED PROJECTOR.  
 809 CONNECTION FOR MOTORIZED SCREEN. COORDINATE CONTROL AND CONNECTION REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.  
 818 OWNER PROVIDED JUNCTION BOX FOR CONTROLS INTERFACE OF THE EXHAUST SYSTEM TO BE INSTALLED BY THE CONTRACTOR ON THE UNI-STRUT FRAME. REFER TO ARCHITECT'S PLANS FOR LOCATION AND ADDITIONAL INFORMATION. CONTRACTOR SHALL PROVIDE A JUNCTION BOX AT THE CEILING TO ROUTE ALL CIRCUITS THROUGH. ONE CIRCUIT TO BE LEFT IN THE CEILING JUNCTION BOX AND TWO CIRCUITS TO BE EXTENDED TO THE OWNER PROVIDED JUNCTION BOX. PROVIDE A 36" SERVICE LOOP IN THE CORRESPONDING JUNCTION BOX. COORDINATE WITH THE ARCHITECTURAL PLANS AND THE OWNER.  
 820 JUNCTION BOX AT SWITCH HEIGHT FOR MOTORIZED SCREEN CONTROL. COORDINATE WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.  
 821 CONDUIT AS INDICATED BETWEEN CONTROL JUNCTION BOXES FOR CONTROLS AND FUTURE USE.

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project number: 15-125

PROJECT INFORMATION:



City of Boise Fire Station 8  
3575 W. Overland Rd. Boise, ID 83705

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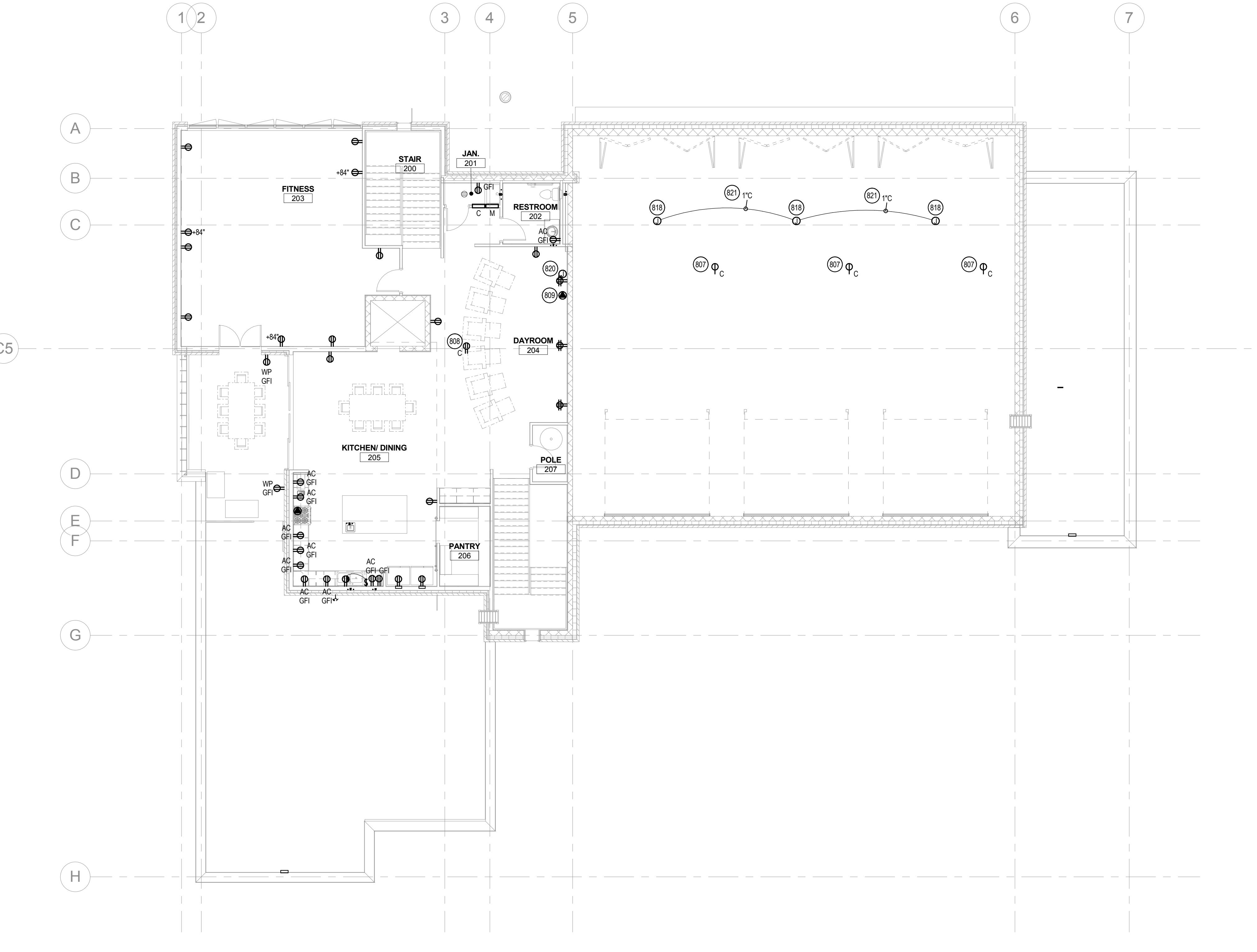
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|-------------------|--------------|
| PROJECT PHASE     | 75% CD       |
| PROJECT NUMBER    | 15-28        |
| PROJECT MANAGER   | J. Chatfield |
| PROJECT ARCHITECT | J. Chatfield |
| DESIGN            | J. Chatfield |
| DRAWN BY          | RM/TM        |

SHEET NAME:

2ND FLOOR POWER PLAN

E208



NORTH

2ND FLOOR POWER PLAN  
1/8" = 1'-0"

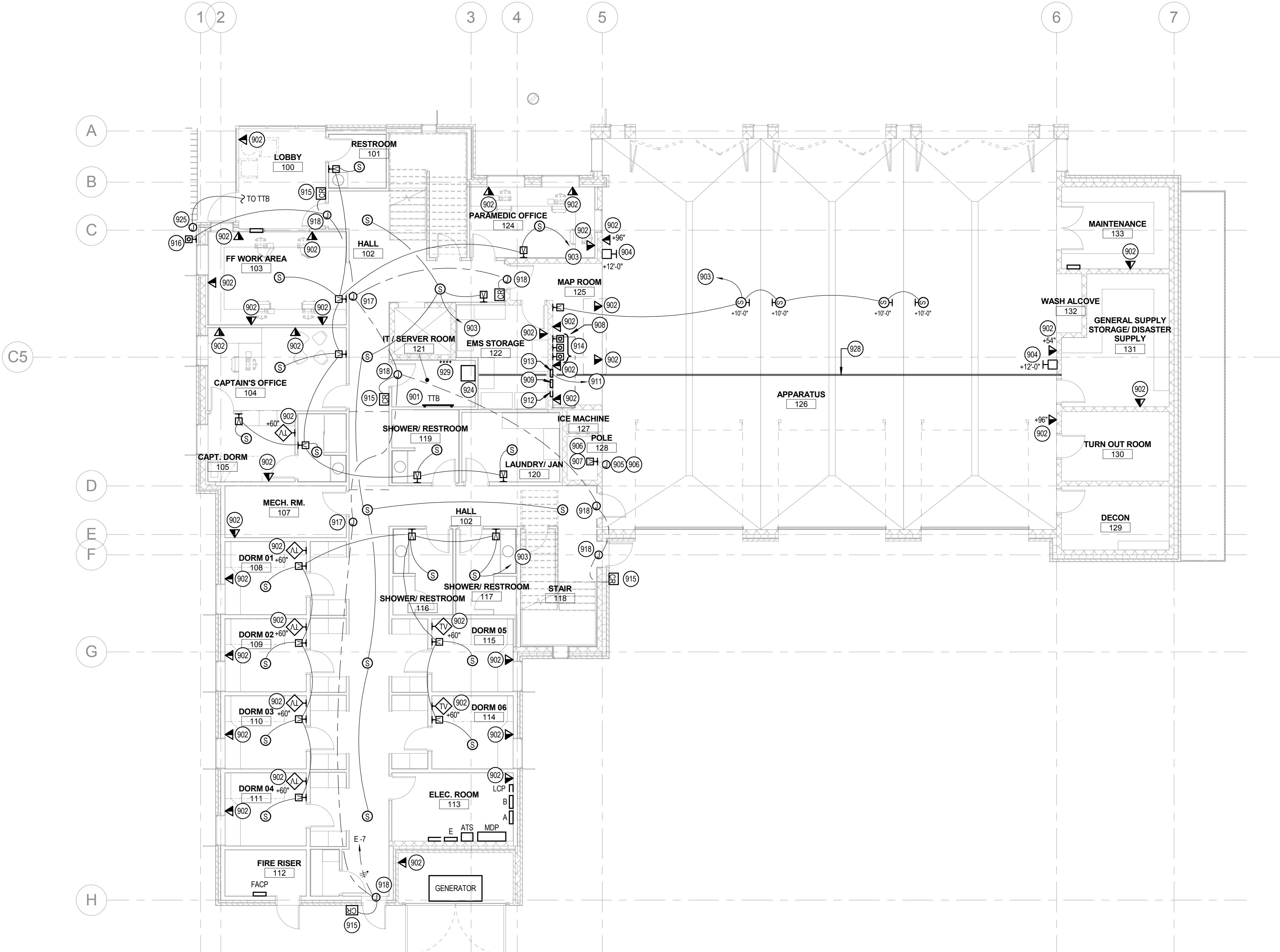
## GENERAL NOTES

- A. INSTALL PULL-LINE IN ALL EMPTY CONDUITS FOR FUTURE CABLE PULL.
- B. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS. EXISTING FURRED OUT WALLS AND EXISTING ACCESSIBLE CEILINGS. USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED, UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.
- C. REFER TO ARCHITECTURAL ELEVATIONS FOR OUTLET HEIGHTS WHERE THE SPECIFIC OUTLET HEIGHT IS NOT INDICATED ON THIS SHEET. REFER TO THE ELECTRICAL LEGEND FOR THE DEFAULT OUTLET HEIGHT WHEN NOT INDICATED ON ELEVATIONS OR ON THIS SHEET.
- D. TERMINATE ALL CONDUITS WITH INSULATED THROAT BUSHING.

## KEYED NOTES

SYMBOL USED FOR NOTE CALLOUT.

- 901 TELEPHONE TERMINAL BOARD, RE:XXX: PROVIDE 2 DEDICATED PHONE LINES TO FACP.
- 902 STUB 3/4" CONDUIT ABOVE ACCESSIBLE CEILING. TERMINATE WITH INSULATED THROAT BUSHING.
- 903 3/4" CONDUIT AND BOX AS REQUIRED TO PUBLIC ADDRESS SYSTEM INTERFACE JUNCTION BOX. RE:RADIO CABINET DETAIL.
- 904 OWNER FURNISHED. CONTRACTOR INSTALLED 120V CHIME. PROVIDE JUNCTION BOX MOUNTED 18" BELOW CEILING LINE WITH 1/2" CONDUIT AND CONDUCTORS AS REQUIRED TO ALARM INTERFACE PANEL. RE:ALARM INTERFACE PANEL DETAIL. CONTRACTOR TO MAKE ALL CONNECTIONS. COORDINATE INSTALLATION WITH THE OWNER.
- 905 JUNCTION BOX FOR TRAFFIC SIGNAL CONTROL. RE:ELECTRICAL SITE PLAN FOR JUNCTION BOX REQUIREMENTS AND ALARM INTERFACE PANEL DETAIL. FOR WIRING DIAGRAM.
- 906 3/4" CONDUIT TO RADIO CABINET FOR CONNECTION OF TRAFFIC SIGNAL CONTROL. COORDINATE WITH TRAFFIC SIGNAL CONTRACTOR. RE:RADIO CABINET DETAIL.
- 907 PROVIDE RED, 22MM, MOMENTARY PUSH BUTTON AND A GREEN, 16MM, MOMENTARY PUSH BUTTON IN A SINGLE GANG PLATE MOUNTED AT SWITCH HEIGHT. THE RED BUTTON SHALL BE LABELED AS "TRAFFIC SIGNAL" AND THE GREEN BUTTON SHALL BE LABELED AS "TRAFFIC SIGNAL RESET". LOCATE THE GREEN BUTTON ON TOP. PROVIDE CABLING AS REQUIRED TO CONNECT EACH PUSH BUTTON TO THE TRAFFIC SIGNAL CONTROL BOX LOCATED IN THE SITE. COORDINATE WITH CIVIL/SIGNAL PLANS FOR LOCATION OF TRAFFIC SIGNAL CONTROL AND CONNECTION REQUIREMENTS.
- 908 12"X12"X4" DEEP FLUSH MOUNTED JUNCTION BOX. RE:RADIO CABINET DETAIL.
- 909 2" CONDUIT STUBBED 12' AFF T/TB. RE:TELEPHONE TERMINAL BOARD DETAIL, GROUNDING BAR DETAIL. RE:RADIO CABINET DETAIL & ALARM INTERFACE PANEL.
- 910 10"X10"X4" DEEP FLUSH MOUNTED JUNCTION BOX FOR PUBLIC ADDRESS SYSTEM INTERFACE. RE:RADIO CABINET DETAIL.
- 911 12"X12"X4" DEEP ALARM INTERFACE JUNCTION BOX FOR ALARM SYSTEM INTERFACE. RE:RADIO CABINET DETAIL.
- 912 MOMENTARY PUSH BUTTONS MOUNTED ON WALL AT SWITCH HEIGHT. RE:RADIO CABINET DETAIL.
- 913 JUNCTION BOX AND 1/2" CONDUIT(S) FOR OWNER PROVIDED CARD READER. PROVIDE AND INSTALL 1/2" CONDUIT(S) FROM DOOR MULLION TO THE JUNCTION BOX(S) AS SHOWN ON PLAN FOR OWNER PROVIDED SECURITY SYSTEM. RE:SINGLE DOOR CARD ACCESS DETAIL.
- 914 FLUSH MOUNTED JUNCTION BOX WITH 1/2" CONDUIT AND 2414 TO RADIO CABINET FOR DOOR BELL CONNECTION. CONTRACTOR TO PROVIDE RECESSED, LOW PROFILE, MOMENTARY PUSH BUTTON AND CONNECT TO THE PA SYSTEM. UTILIZE LAMB INDUSTRIES PV3 SERIES OR EQUAL PUSH BUTTON.
- 915 PROVIDE JUNCTION BOX LOCATED ABOVE ACCESSIBLE CEILING FOR OWNER PROVIDED SECURITY SYSTEM.
- 916 JUNCTION BOX LOCATED ABOVE ACCESSIBLE CEILING OR FLUSH MOUNTED 24" ABOVE TOP OF DOOR WITH 1/2" CONDUIT TO DOOR MULLION AND 1/2" CONDUIT TO CARD READER JUNCTION BOX FOR OWNER PROVIDED SECURITY SYSTEM. RE:SINGLE DOOR CARD ACCESS DETAIL.
- 917 APPROXIMATE LOCATION OF OWNER PROVIDED AND INSTALLED DATA RACK. FIELD VERIFY LOCATION.
- 918 FLUSH MOUNTED EMERGENCY PHONE. PROVIDE 3/4" CONDUIT WITH (1)CAT5E CABLE TO TTB.
- 919 2" CONDUIT AT BOTTOM OF STRUCTURE FROM TELE/SERVER TO OTHER SIDE OF APPARATUS.
- 920 (4)2" CONDUIT CHASES FROM 1ST FLOOR CEILING TO 2ND FLOOR CEILING SPACE.



1ST FLOOR SPECIAL SYSTEMS PLAN  
1/8" = 1'-0"



## 1ST FLOOR SPECIAL SYSTEMS PLAN

E209

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project number: 15-125City of Boise Fire Station 8  
3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

PROJECT PHASE 75% CD

PROJECT NUMBER 15-28

PROJECT MANAGER J. Chatfield

PROJECT ARCHITECT J. Chatfield

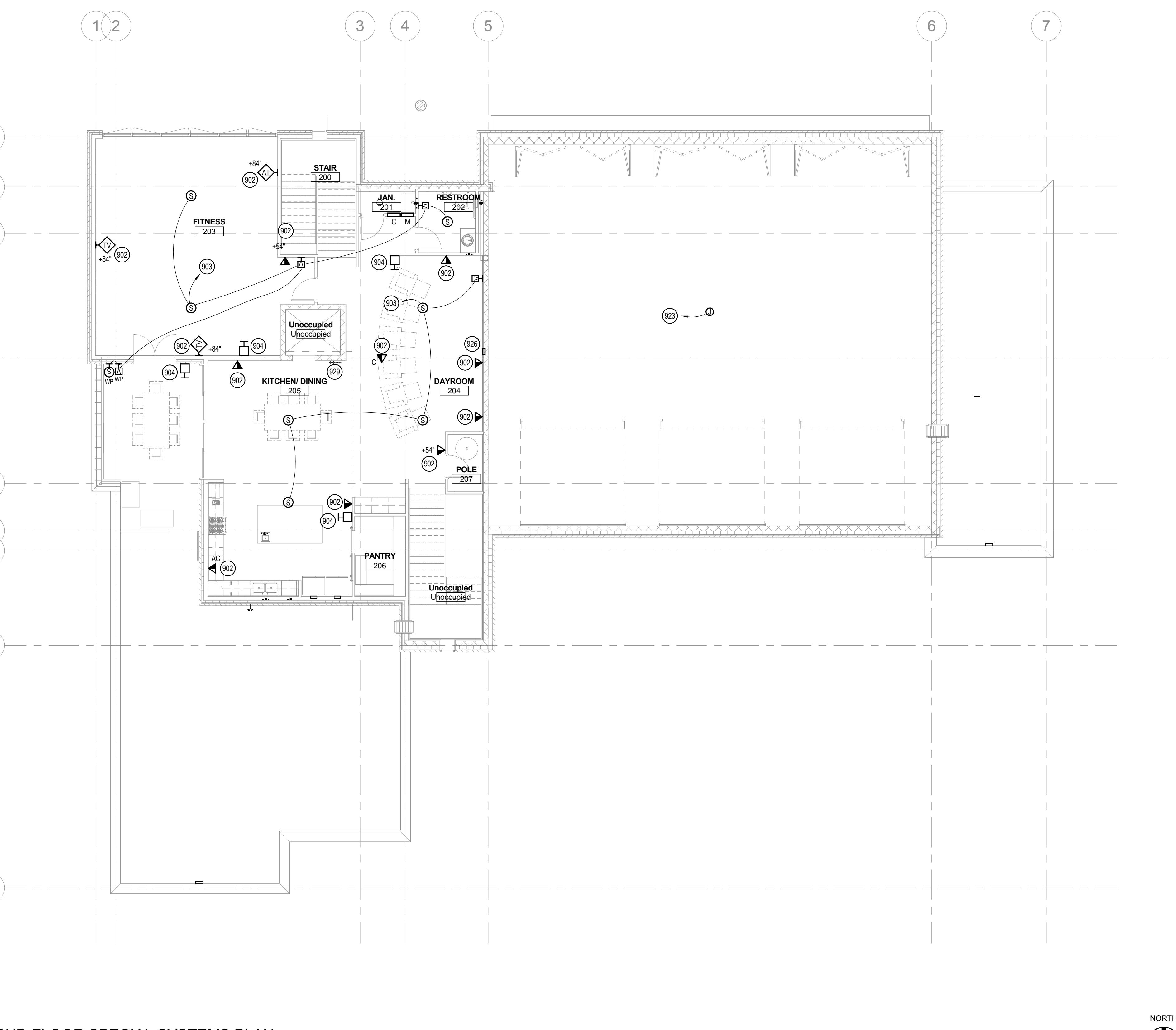
DESIGN J. Chatfield

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SHEET NAME:

SHEET NUMBER:

01.04.16



2ND FLOOR SPECIAL SYSTEMS PLAN  
1/8" = 1'-0"

## GENERAL NOTES

- A. INSTALL PULL-LINE IN ALL EMPTY CONDUITS FOR FUTURE CABLE PULL.
- B. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS. EXISTING FURRED OUT WALLS AND EXISTING ACCESSIBLE CEILINGS. USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED, UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.
- C. REFER TO ARCHITECTURAL ELEVATIONS FOR OUTLET HEIGHTS WHERE THE SPECIFIC OUTLET HEIGHT IS NOT INDICATED ON THIS SHEET. REFER TO THE ELECTRICAL LEGEND FOR THE DEFAULT OUTLET HEIGHT WHEN NOT INDICATED ON ELEVATIONS OR ON THIS SHEET.
- D. TERMINATE ALL CONDUITS WITH INSULATED THROAT BUSHING.

## KEYED NOTES

(○) SYMBOL USED FOR NOTE CALLOUT.

- 902 STUB 3/4" CONDUIT ABOVE ACCESSIBLE CEILING. TERMINATE WITH INSULATED THROAT BUSHING. 3/4" CONDUIT AND CABLING AS REQUIRED TO PUBLIC ADDRESS SYSTEM INTERFACE JUNCTION BOX. RE-RADIO CABINET DETAIL.
- 903 OWNER FURNISHED. CONTRACTOR INSTALLED 120V CHIME. PROVIDE JUNCTION BOX MOUNTED 18" BELOW CEILING LIO WITH 1/2" CONDUIT AND CONDUCTORS AS REQUIRED TO ALARM INTERFACE PANEL. RE-ALARM INTERFACE PANEL DETAIL. CONTRACTOR TO MAKE ALL CONNECTIONS. COORDINATE INSTALLATION WITH THE OWNER.
- 923 (2) 2" RIGID CONDUITS WITH WEATHER HEADS FOR ANTENNA ARRAY STRUCTURE. RE-ARCHITECT PLANS FOR MOUNTING REQUIREMENTS. ROUTE THE CONDUIT FROM THE ANTENNA ARRAY STRUCTURE TO THE RADIO CABINET JUNCTION BOX. RE-RADIO CABINET DETAIL. ROUTE CONDUIT VIA THE ATTIC SPACE DOWN THE 2ND FLOOR WALL ADJACENT TO THE AIR COMPRESSOR. TRANSITION TO THE CEILING SPACE ABOVE THE MAPPING AREA THEN DOWN THE FURRED WALL. PROVIDE ACCESSIBLE PULL-BOXES AS REQUIRED. CONTRACTOR SHALL INSTALL OWNER PROVIDED COAX. COORDINATE WITH OWNER PRIOR TO ROUGH-IN.
- 926 FLUSH MOUNTED 10"X10"X4" DEEP AV JUNCTION BOX WITH COVER LOCATED IN MILLWORK. PROVIDE (2) 2" CONDUITS TO ACCESSIBLE CEILING. TERMINATE WITH INSULATED THROAT BUSHINGS. COORDINATE THE INSTALLATION WITH THE MILLWORK.
- 929 (4) 2" CONDUIT CHASES FROM 1ST FLOOR CEILING TO 2ND FLOOR CEILING SPACE.

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| MARK | DATE | DESCRIPTION |
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PROJECT PHASE 75% CD

PROJECT NUMBER 15-28

PROJECT MANAGER J. Chatfield

PROJECT ARCHITECT J. Chatfield

DESIGN J. Chatfield

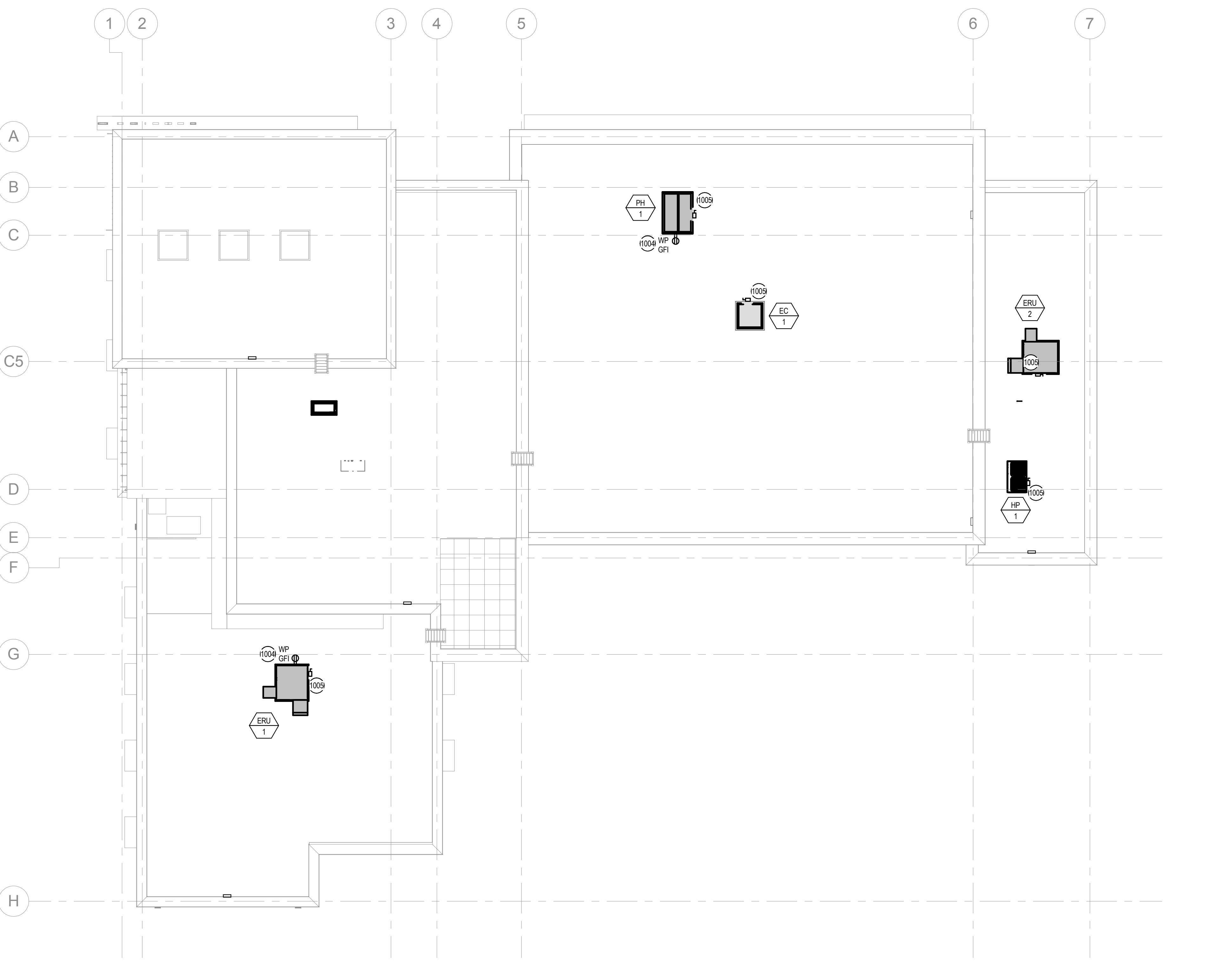
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SHEET NAME:

**2ND FLOOR SPECIAL SYSTEMS PLAN**

D SHEET NUMBER:

**E210**

**GENERAL NOTES**

- A. THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE: THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING CONTRACTORS PRIOR TO ROUGH-IN. REFER TO ADN COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE CONTRACTOR.
- B. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS. EXISTING PURRED OUT WALLS AND EXISTING ACCESSIBLE CLELINGS. USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED, UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.
- C. MECHANICAL EQUIPMENT SHOWN IN APPROXIMATE LOCATION. COORDINATE WITH MECHANICAL CONTRACTOR.

**KEYED NOTES**

- (○) SYMBOL USED FOR NOTE CALLOUT.
- 1004 MOUNT RECEPTACLE ON RIGID CONDUIT 12" ABOVE ROOF DECK OR ON MECHANICAL UNIT WHERE APPLICABLE.
- 1005 FIELD COORDINATE DISCONNECT AND CONDENSER LOCATION WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES.

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project number: 15-125

PROJECT INFORMATION:


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C REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

|                   |              |
|-------------------|--------------|
| PROJECT PHASE     | 75% CD       |
| PROJECT NUMBER    | 15-28        |
| PROJECT MANAGER   | J. Chatfield |
| PROJECT ARCHITECT | J. Chatfield |
| DESIGN            | J. Chatfield |
| DRAWN BY          | RM/TM        |

SHEET NAME:

**ELECTRICAL ROOF  
PLAN**

SHEET NUMBER:

**E300**

01.04.16

3



2

1

5

4

3

2

1

0



COLE ARCHITECTS

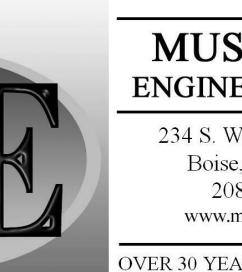
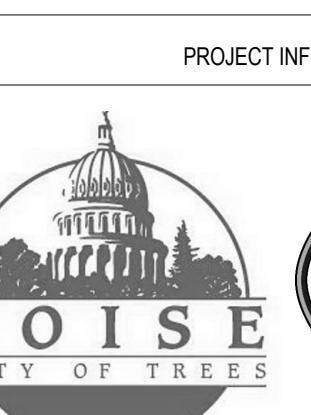
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PROJECT PHASE 75% CD

PROJECT NUMBER 15-28

PROJECT MANAGER J. Chatfield

PROJECT ARCHITECT J. Chatfield

DESIGN J. Chatfield

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SHEET NAME:

ELECTRICAL  
SCHEDULES

D

SHEET NUMBER:

E401

## Branch Panel: A

Location: Space 21  
Supply From:  
Mounting: Surface  
Enclosure: Type 1Volts: 120/208 Wye  
Phases: 3  
Wires: 4A.I.C. Rating:  
Mains Type:  
Mains Rating: 225 A  
MCB Rating:

Notes:

| CKT | Circuit Description | Trip | Poles | A | B | C | Poles | Trip | Circuit Description | CKT |
|-----|---------------------|------|-------|---|---|---|-------|------|---------------------|-----|
| 1   |                     |      |       |   |   |   |       |      |                     | 2   |
| 3   |                     |      |       |   |   |   |       |      |                     | 4   |
| 5   |                     |      |       |   |   |   |       |      |                     | 6   |
| 7   |                     |      |       |   |   |   |       |      |                     | 8   |
| 9   |                     |      |       |   |   |   |       |      |                     | 10  |
| 11  |                     |      |       |   |   |   |       |      |                     | 12  |
| 13  |                     |      |       |   |   |   |       |      |                     | 14  |
| 15  |                     |      |       |   |   |   |       |      |                     | 16  |
| 17  |                     |      |       |   |   |   |       |      |                     | 18  |
| 19  |                     |      |       |   |   |   |       |      |                     | 20  |
| 21  |                     |      |       |   |   |   |       |      |                     | 22  |
| 23  |                     |      |       |   |   |   |       |      |                     | 24  |
| 25  |                     |      |       |   |   |   |       |      |                     | 26  |
| 27  |                     |      |       |   |   |   |       |      |                     | 28  |
| 29  |                     |      |       |   |   |   |       |      |                     | 30  |
| 31  |                     |      |       |   |   |   |       |      |                     | 32  |
| 33  |                     |      |       |   |   |   |       |      |                     | 34  |
| 35  |                     |      |       |   |   |   |       |      |                     | 36  |
| 37  |                     |      |       |   |   |   |       |      |                     | 38  |
| 39  |                     |      |       |   |   |   |       |      |                     | 40  |
| 41  |                     |      |       |   |   |   |       |      |                     | 42  |

Total Load: 0 VA 0 VA 0 VA

Total Amps: 0 A 0 A 0 A

Legend:

## Branch Panel: B

Location: Space 21  
Supply From:  
Mounting: Surface  
Enclosure: Type 1Volts: 120/208 Wye  
Phases: 3  
Wires: 4A.I.C. Rating:  
Mains Type:  
Mains Rating: 225 A  
MCB Rating:

Notes:

| CKT | Circuit Description | Trip | Poles | A | B | C | Poles | Trip | Circuit Description | CKT |
|-----|---------------------|------|-------|---|---|---|-------|------|---------------------|-----|
| 1   |                     |      |       |   |   |   |       |      |                     | 2   |
| 3   |                     |      |       |   |   |   |       |      |                     | 4   |
| 5   |                     |      |       |   |   |   |       |      |                     | 6   |
| 7   |                     |      |       |   |   |   |       |      |                     | 8   |
| 9   |                     |      |       |   |   |   |       |      |                     | 10  |
| 11  |                     |      |       |   |   |   |       |      |                     | 12  |
| 13  |                     |      |       |   |   |   |       |      |                     | 14  |
| 15  |                     |      |       |   |   |   |       |      |                     | 16  |
| 17  |                     |      |       |   |   |   |       |      |                     | 18  |
| 19  |                     |      |       |   |   |   |       |      |                     | 20  |
| 21  |                     |      |       |   |   |   |       |      |                     | 22  |
| 23  |                     |      |       |   |   |   |       |      |                     | 24  |
| 25  |                     |      |       |   |   |   |       |      |                     | 26  |
| 27  |                     |      |       |   |   |   |       |      |                     | 28  |
| 29  |                     |      |       |   |   |   |       |      |                     | 30  |
| 31  |                     |      |       |   |   |   |       |      |                     | 32  |
| 33  |                     |      |       |   |   |   |       |      |                     | 34  |
| 35  |                     |      |       |   |   |   |       |      |                     | 36  |
| 37  |                     |      |       |   |   |   |       |      |                     | 38  |
| 39  |                     |      |       |   |   |   |       |      |                     | 40  |
| 41  |                     |      |       |   |   |   |       |      |                     | 42  |

Total Load: 0 VA 0 VA 0 VA

Total Amps: 0 A 0 A 0 A

Legend:

## Branch Panel: E

Location: Space 21  
Supply From:  
Mounting: Surface  
Enclosure: Type 1Volts: 120/208 Wye  
Phases: 3  
Wires: 4A.I.C. Rating:  
Mains Type:  
Mains Rating: 125 A  
MCB Rating:

Notes:

| CKT | Circuit Description | Trip | Poles | A      | B      | C      | Poles | Trip | Circuit Description | CKT |
|-----|---------------------|------|-------|--------|--------|--------|-------|------|---------------------|-----|
| 1   | OVERHEAD DOORS      | 20 A | 1     | 696 VA | 696 VA |        | 1     | 20 A | OVERHEAD DOORS      | 2   |
| 3   | OVERHEAD DOORS      | 20 A | 1     | 696 VA | 696 VA |        | 1     | 20 A | OVERHEAD DOORS      | 4   |
| 5   | OVERHEAD DOORS      | 20 A | 1     |        | 696 VA | 696 VA | 1     | 20 A | OVERHEAD DOORS      | 6   |
| 7   | DOOR ACCESS CONTROL | 20 A | 1     | 480 VA |        |        | 1     | 20 A | OVERHEAD DOORS      | 8   |
| 9   | FIRE ALARM BELL     | 20 A | 1     |        | 180 VA | 0 VA   | 1     | 20 A | FACP                | 10  |
| 11  |                     |      |       |        |        |        |       |      |                     | 12  |
| 13  |                     |      |       |        |        |        |       |      |                     | 14  |
| 15  |                     |      |       |        |        |        |       |      |                     | 16  |
| 17  |                     |      |       |        |        |        |       |      |                     | 18  |
| 19  |                     |      |       |        |        |        |       |      |                     | 20  |
| 21  |                     |      |       |        |        |        |       |      |                     | 22  |
| 23  |                     |      |       |        |        |        |       |      |                     | 24  |
| 25  |                     |      |       |        |        |        |       |      |                     | 26  |
| 27  |                     |      |       |        |        |        |       |      |                     | 28  |
| 29  |                     |      |       |        |        |        |       |      |                     | 30  |
| 31  |                     |      |       |        |        |        |       |      |                     | 32  |
| 33  |                     |      |       |        |        |        |       |      |                     | 34  |
| 35  |                     |      |       |        |        |        |       |      |                     | 36  |
| 37  |                     |      |       |        |        |        |       |      |                     | 38  |
| 39  |                     |      |       |        |        |        |       |      |                     | 40  |
| 41  |                     |      |       |        |        |        |       |      |                     | 42  |

Total Load: 1872 VA 1572 VA 1392 VA

Total Amps: 16 A 13 A 12 A

Legend:

## Switchboard: MDP

Location: Space 21  
Supply From:  
Mounting:  
Enclosure:Volts: 120/208 Wye  
Phases: 3  
Wires: 4A.I.C. Rating:  
Mains Type: BREAKER  
Mains Rating:  
MCB Rating: 800 A

Notes:

| CKT | Circuit Description | # of |
|-----|---------------------|------|
|-----|---------------------|------|

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project number: 15-125

City of Boise Fire Station 8

3575 W. Overland Rd. Boise, ID 83705

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MARK DATE DESCRIPTION

PROJECT PHASE 75% CD

PROJECT NUMBER 15-28

PROJECT MANAGER J. Chatfield

PROJECT ARCHITECT J. Chatfield

DESIGN J. Chatfield

DRAWN BY RM/TM

SHEET NAME:

ELECTRICAL  
SCHEDULES

D SHEET NUMBER:

E402

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project number: 15-125

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REVISIONS:

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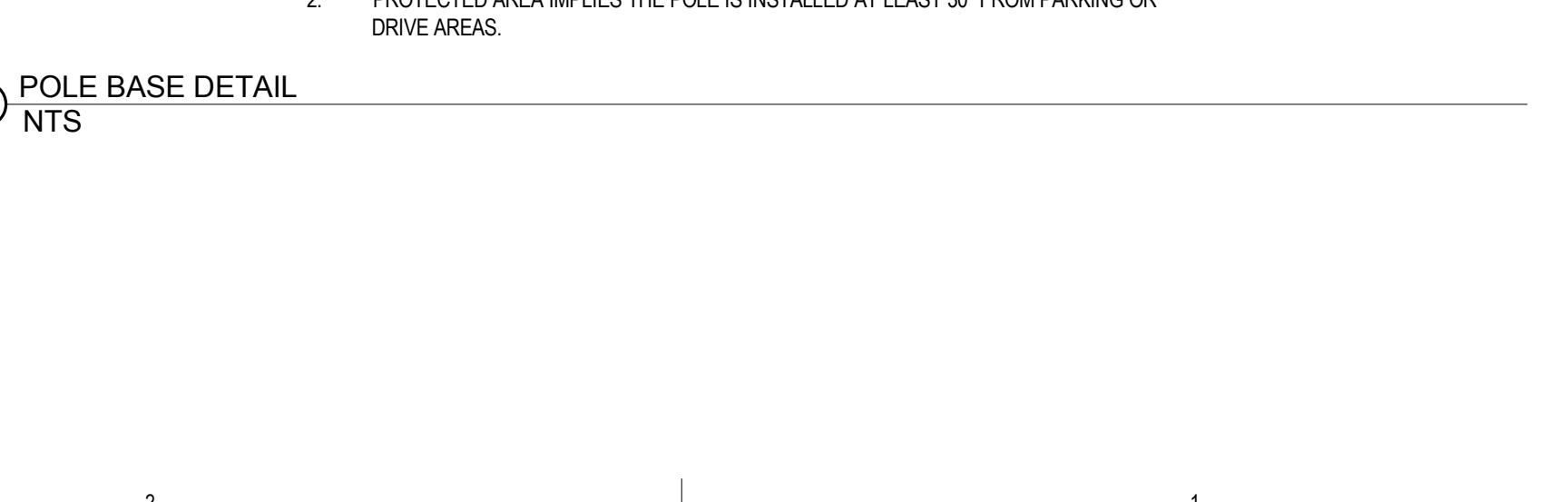
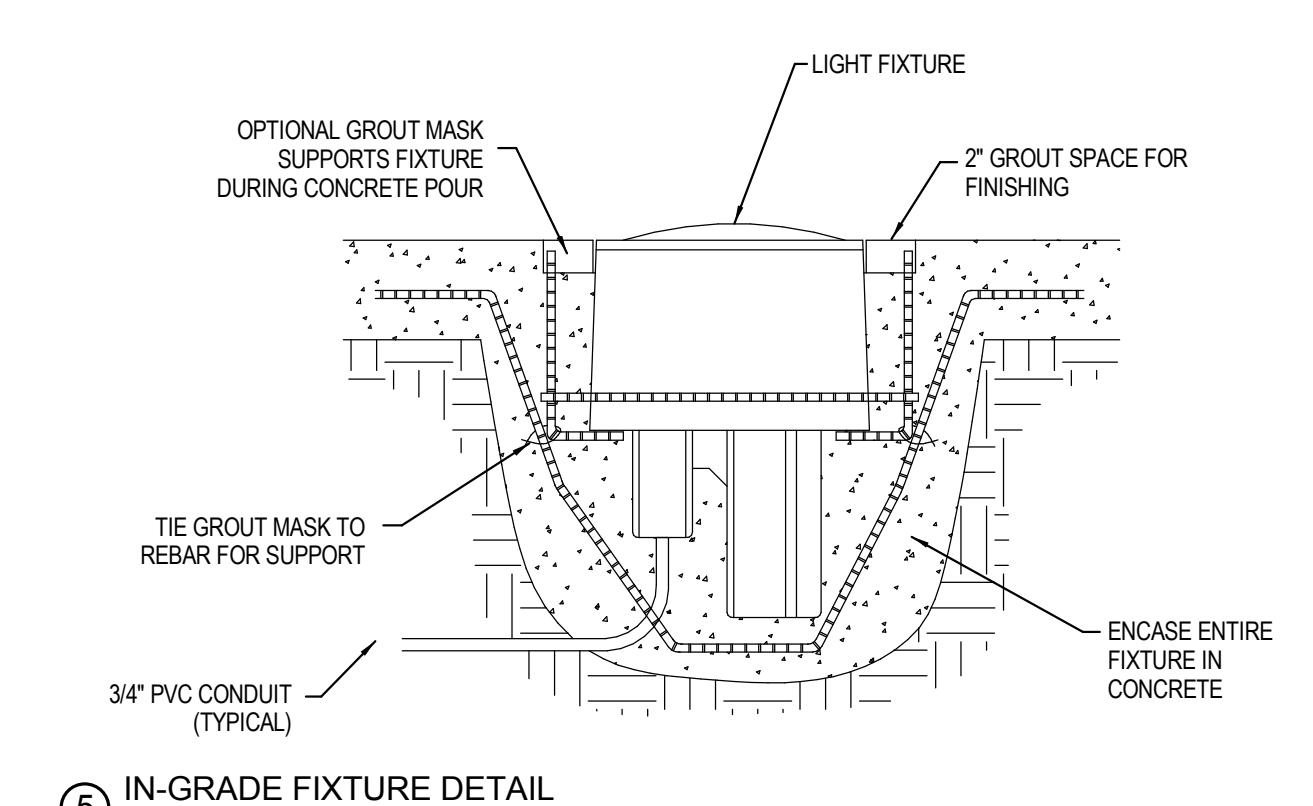
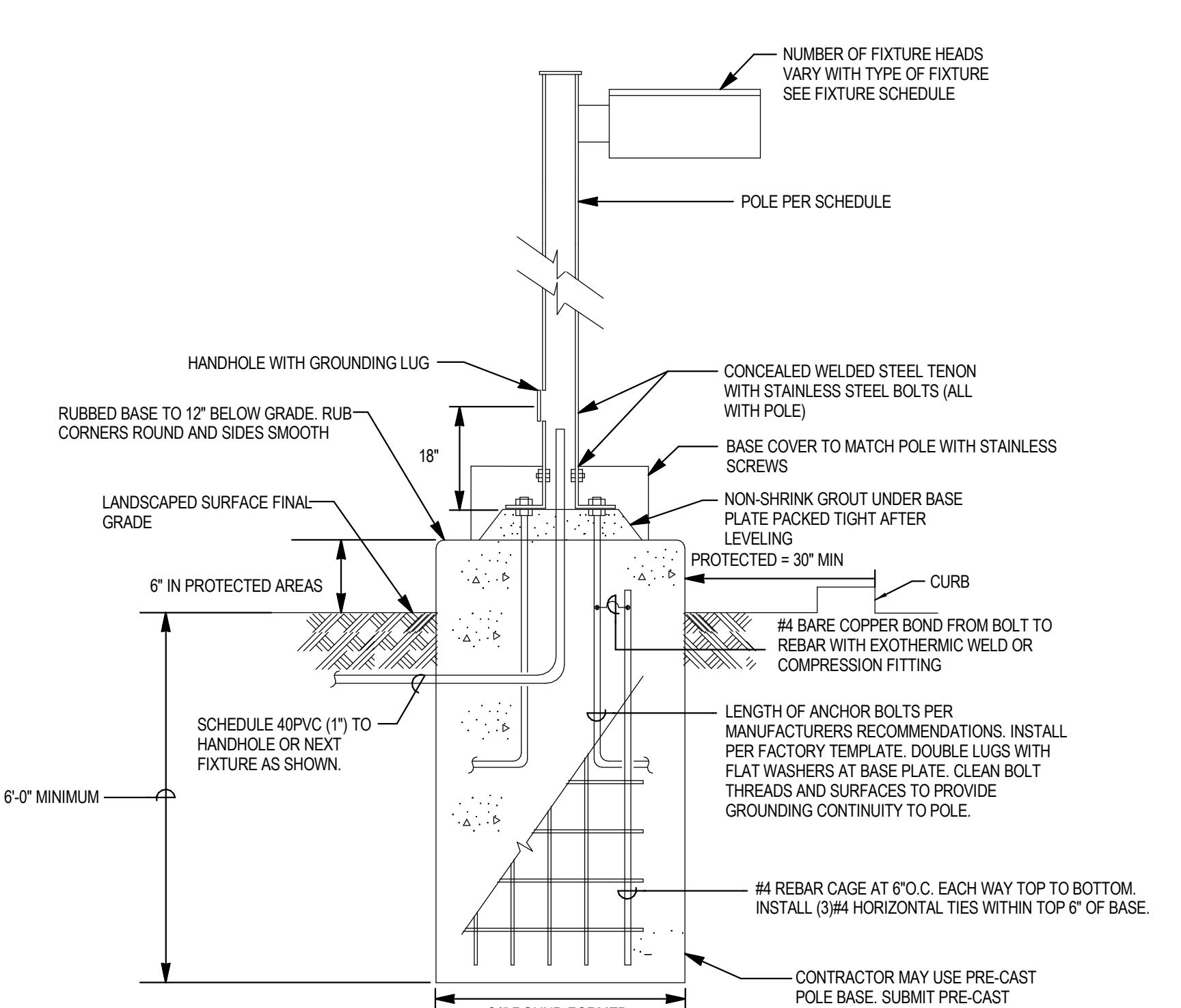
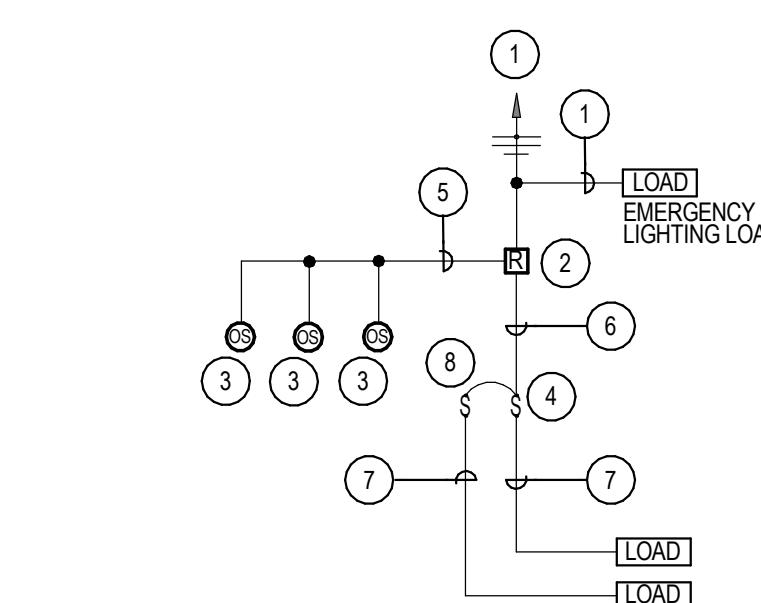
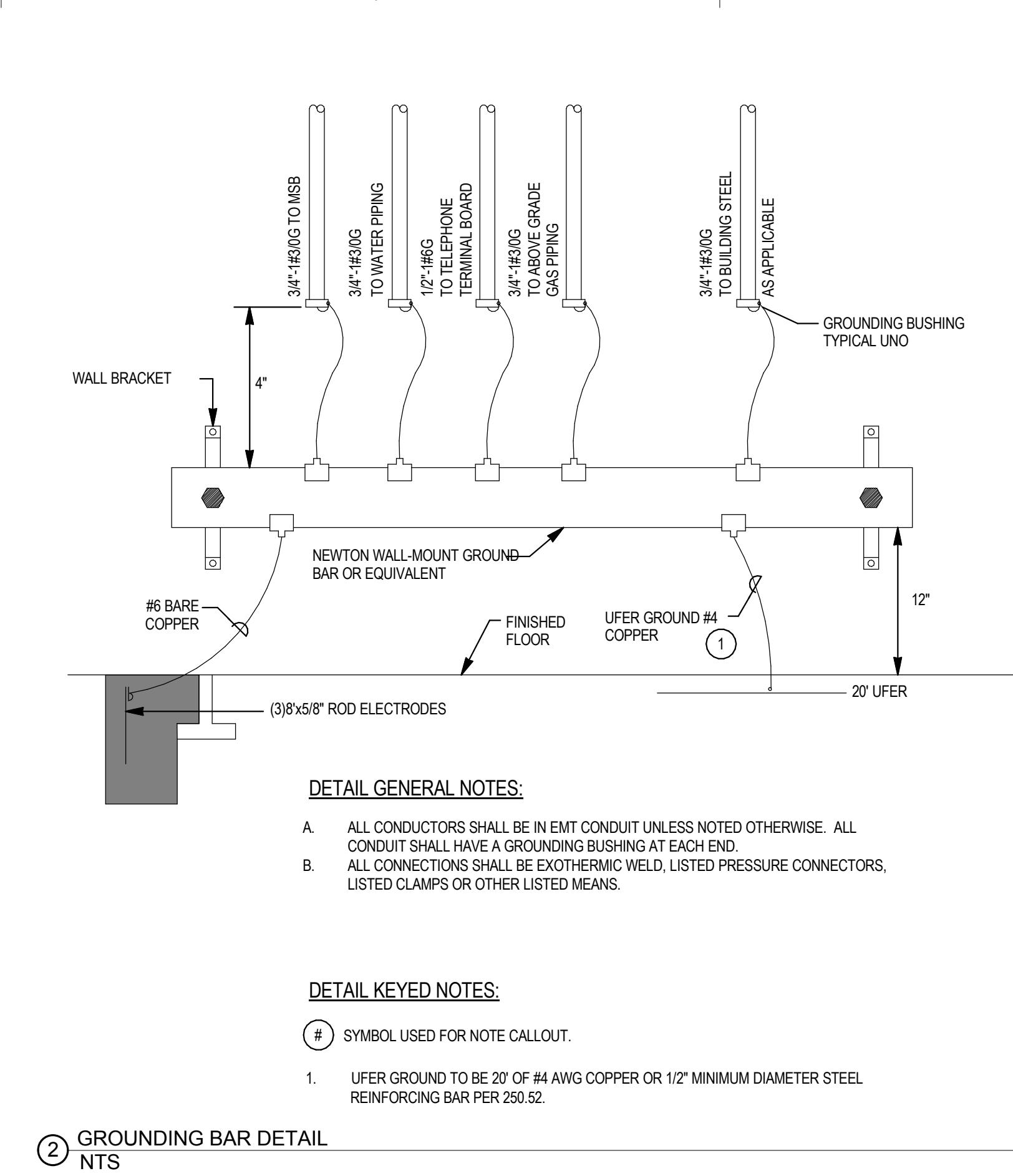
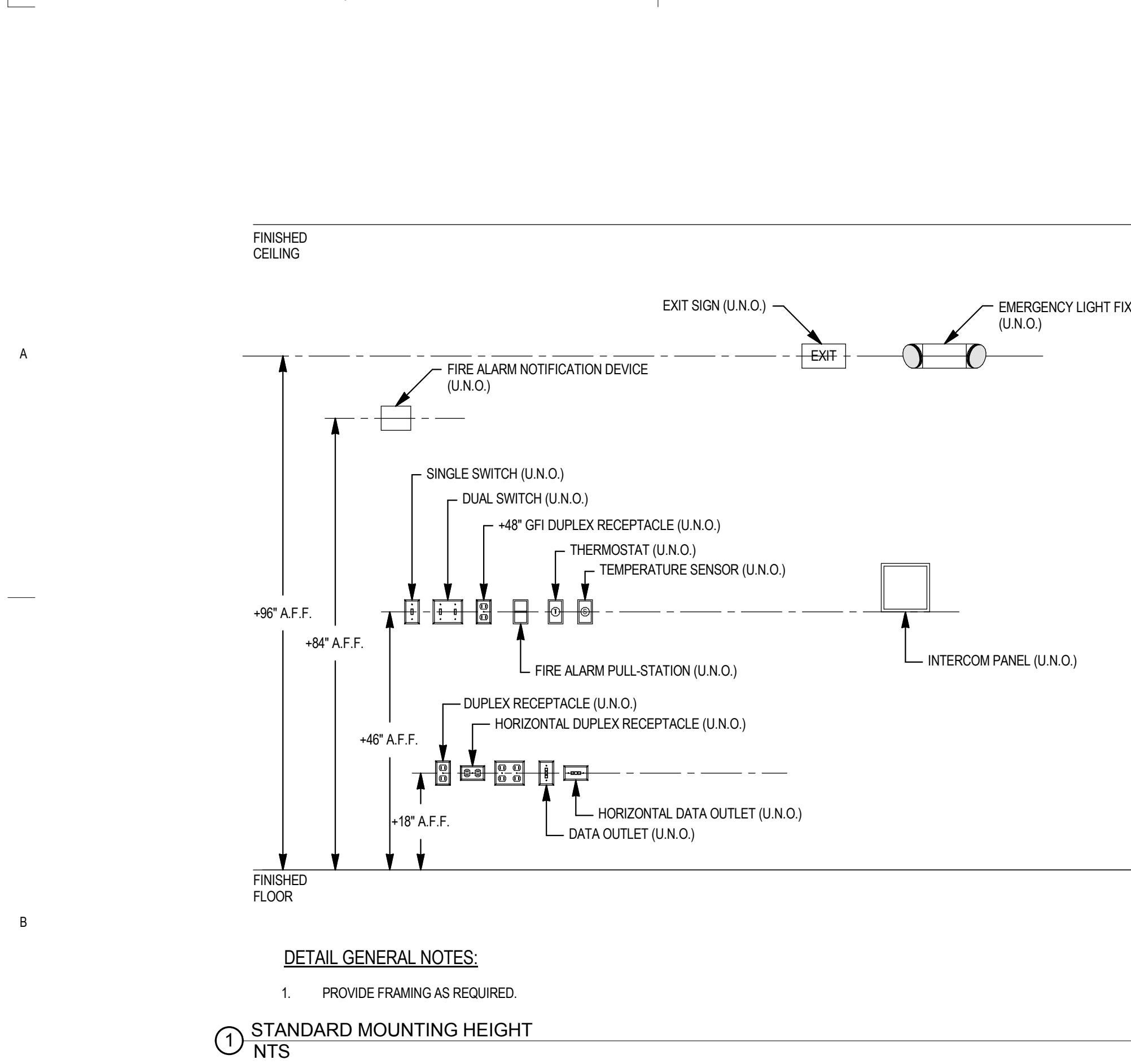
PROJECT PHASE 75% CD

|                   |              |
|-------------------|--------------|
| PROJECT PHASE     | 75% CD       |
| PROJECT NUMBER    | 15-28        |
| PROJECT MANAGER   | J. Chatfield |
| PROJECT ARCHITECT | J. Chatfield |
| DESIGN            | J. Chatfield |
| DRAWN BY          | RM/TM        |

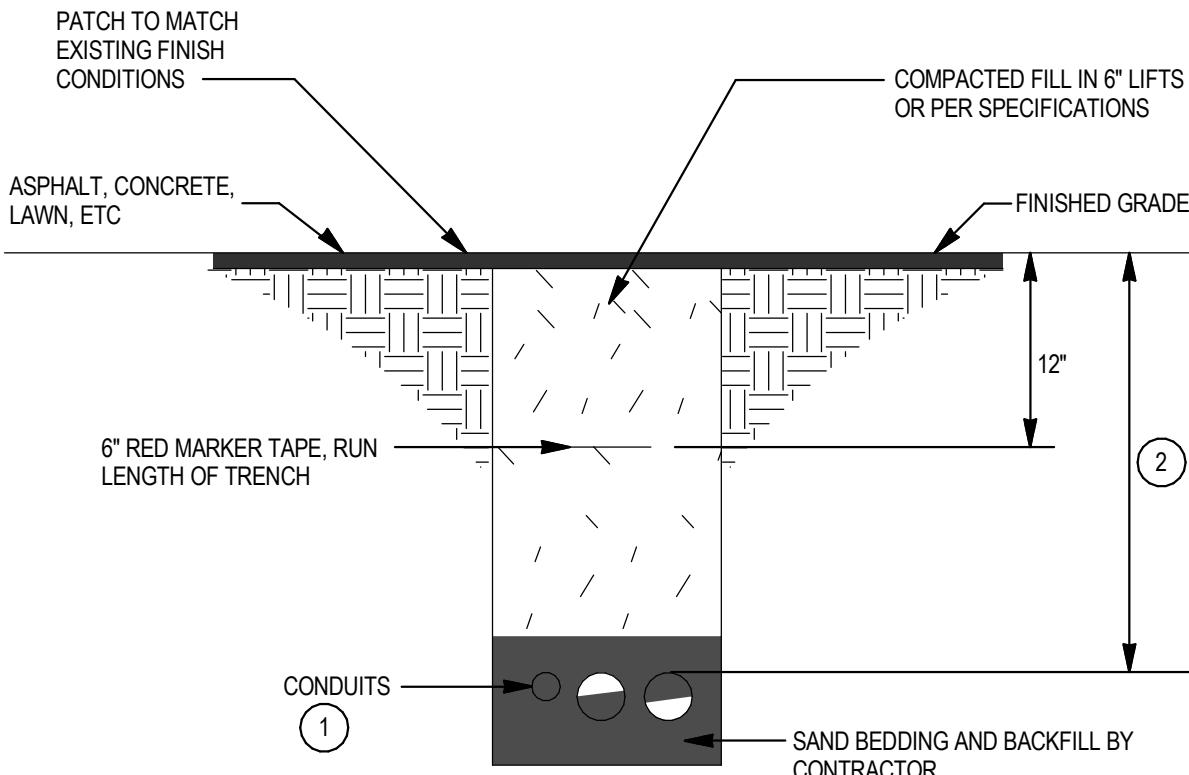
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## ELECTRICAL DETAILS

E500



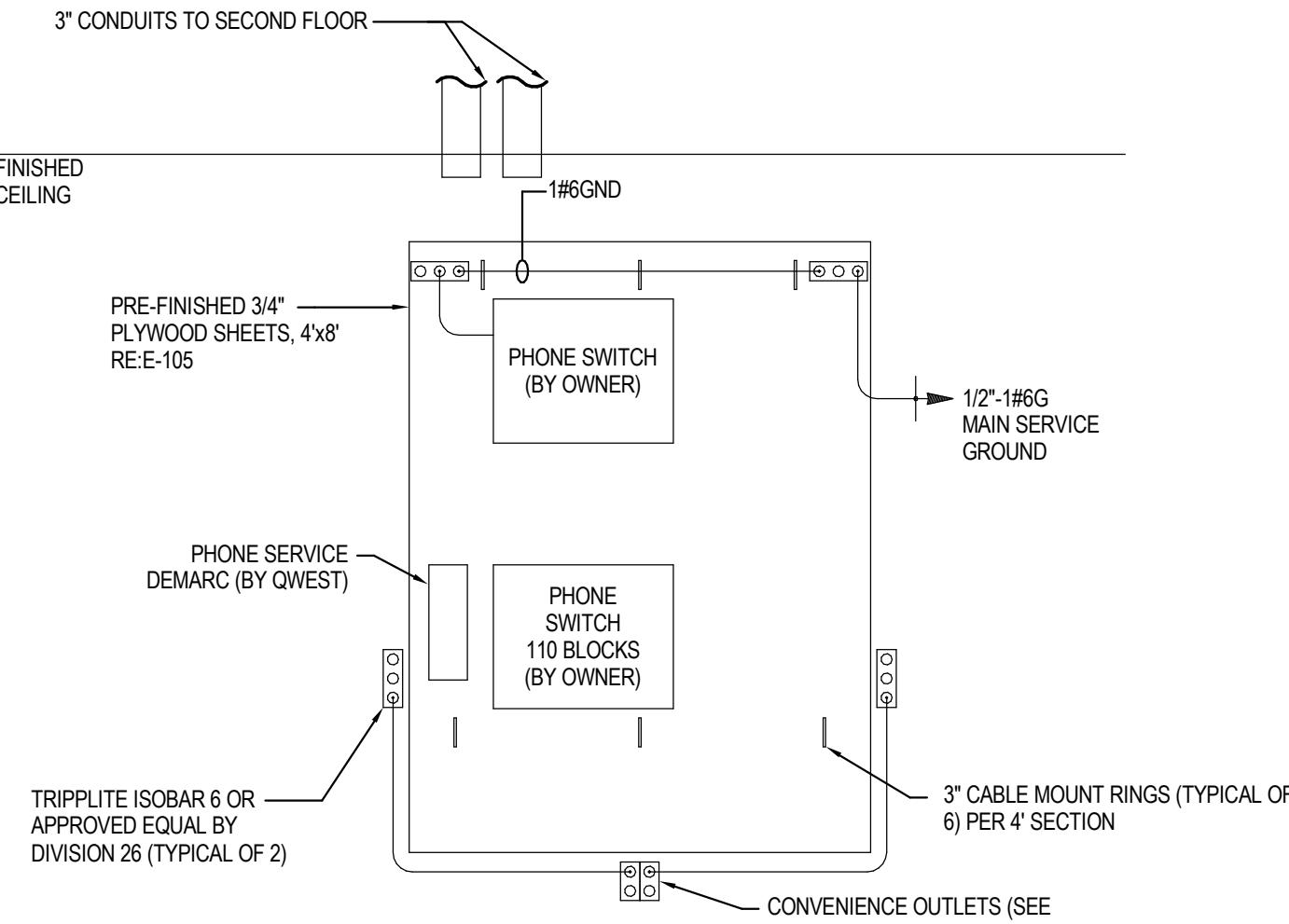
01.04.16



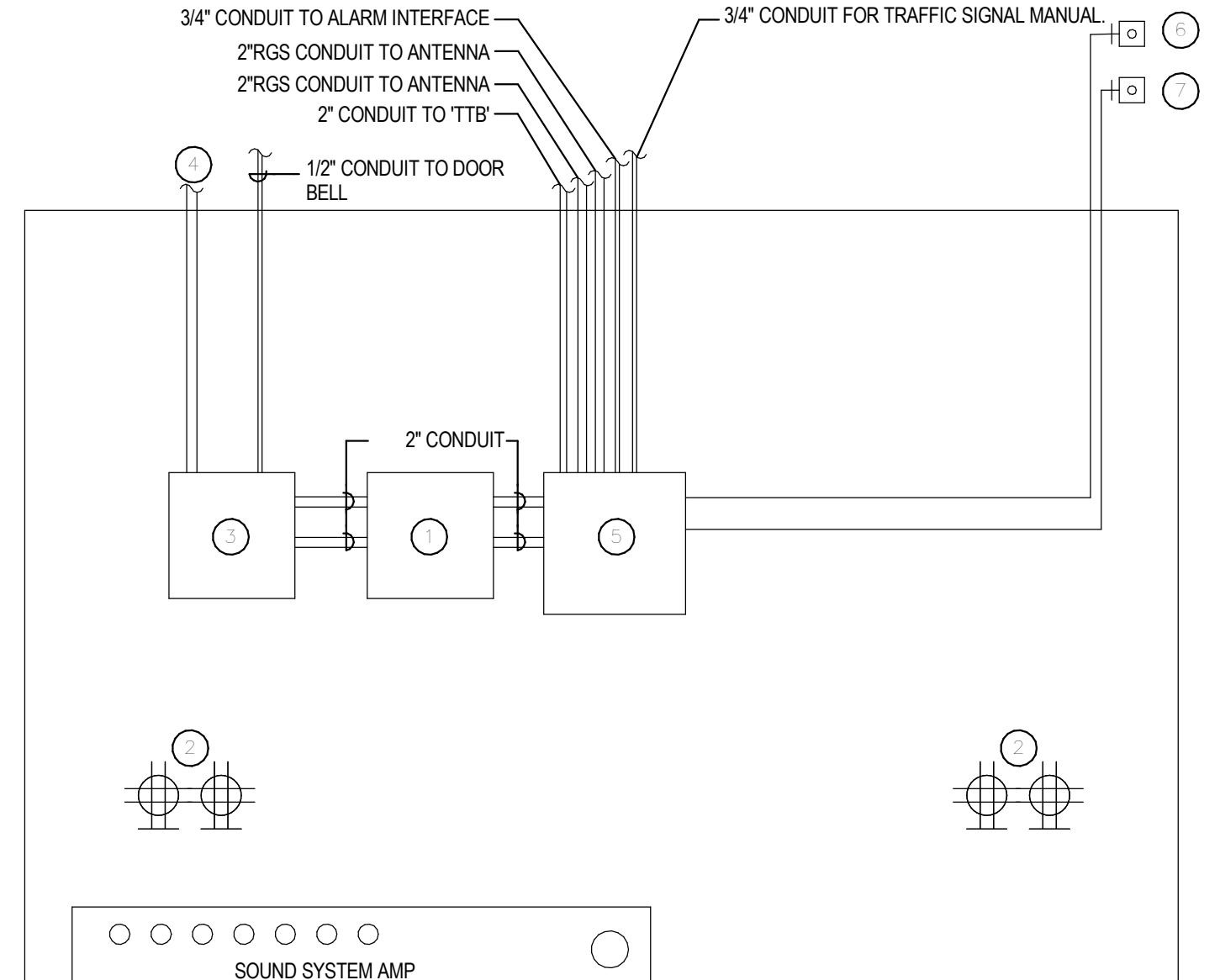
#### DETAIL KEYED NOTES:

- (1) SYMBOL USED FOR NOTE CALLOUT.  
 1. IF MULTIPLE CONDUITS SHARE TRENCH, PROVIDE SPACING BETWEEN CONDUITS.  
 PROVIDE ZIP TIES, AND TIE ALL CONDUITS TOGETHER TO ENSURE STABILITY.  
 2. BURIAL DEPTH TO BE VERIFIED WITH UTILITIES AND AUTHORITY HAVING  
 JURISDICTION: ELECTRICAL FEEDERS: COMMUNICATIONS: 24'' MINIMUM  
 UNDERGROUND SECONDARY: 30'' MINIMUM  
 UNDERGROUND PRIMARY: 42'' MINIMUM

① TRENCHING DETAIL  
NTS



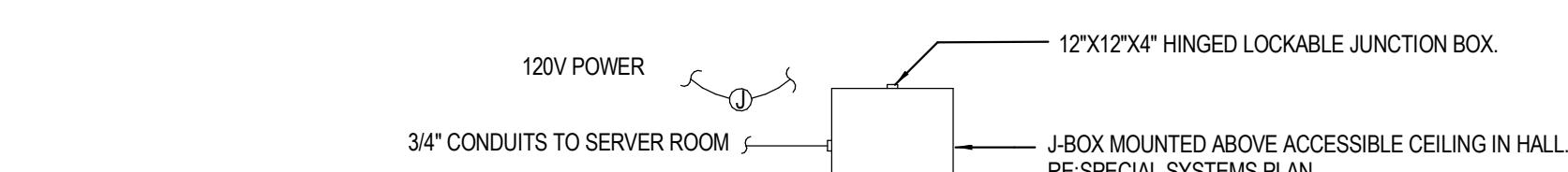
② TELEPHONE TERMINAL BOARD DETAIL  
NTS



#### RADIO CABINET DETAIL KEYED NOTES:

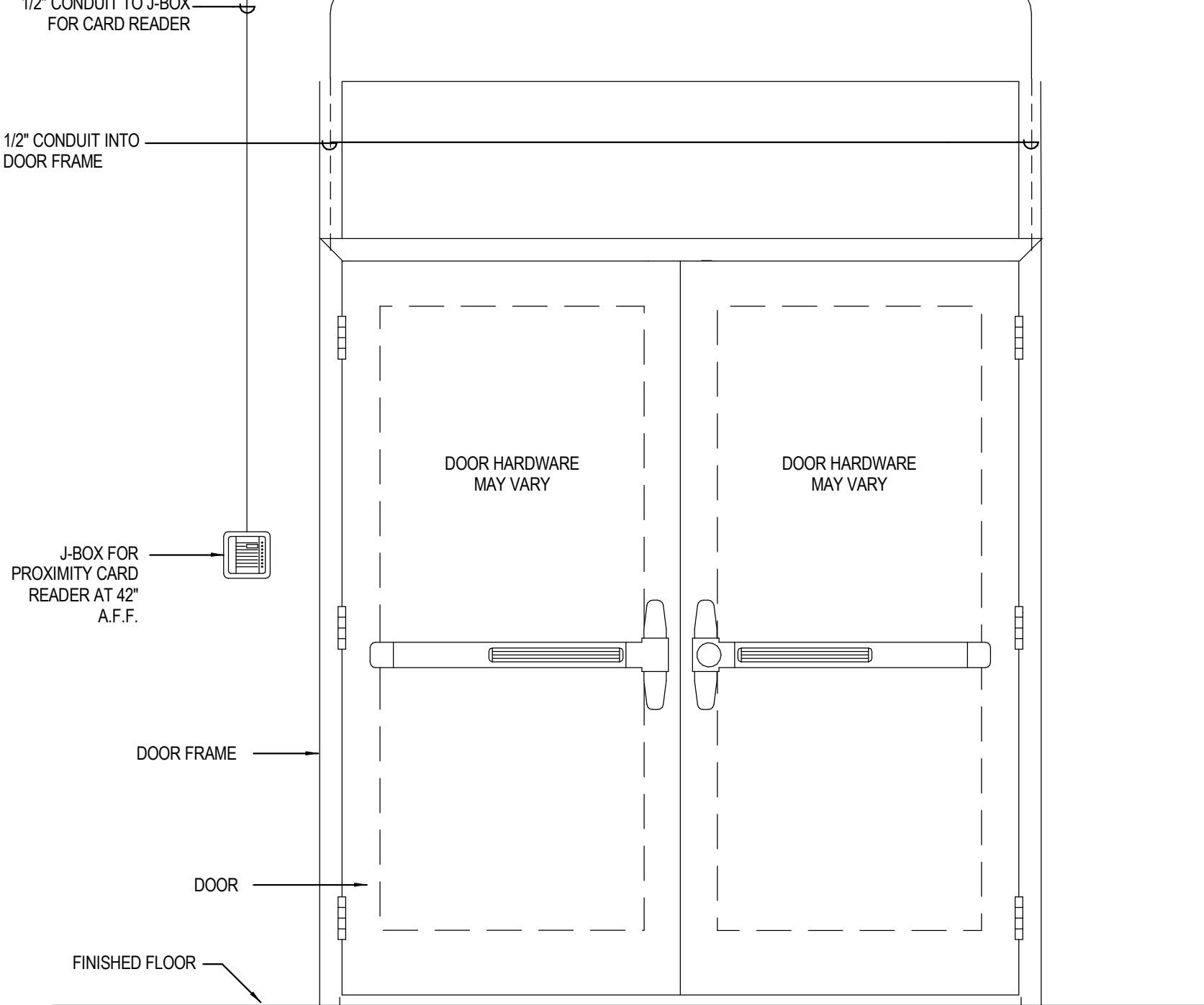
1. RECESSED JUNCTION BOX WITH COVER. RE:E-105.
2. DUPLEX RECEPTACLES MOUNTED INSIDE CABINET. RE:E-103.
3. RECESSED JUNCTION BOX FOR PUBLIC ADDRESS INTERFACE. RE:E-105.
4. 3/4" CONDUITS TO SPEAKERS/VOLUME CONTROLS AS REQUIRED. RE:E-105.
5. RECESSED JUNCTION BOX FOR ALARM INTERFACE. RE:E-105.
6. PROVIDE BLACK SQUARE D # 9001KR1RH13 MOMENTARY PUSH BUTTON WITH (1)N.O. AND (1)N.C. CONTACTS FOR ALARM RESET WITH 1/2" CONDUIT AND 2#14 TO ALARM INTERFACE JUNCTION BOX. LABEL AS "ALARM RESET".
7. PROVIDE RED SQUARE D # 9001KR1RH13 MOMENTARY PUSH BUTTON WITH (1)N.O. AND (1)N.C. CONTACTS FOR ALARM TEST WITH 1/2" CONDUIT AND 2#14 TO ALARM INTERFACE JUNCTION BOX. LABEL AS "ALARM TEST".

③ RADIO CABINET DETAIL  
NTS

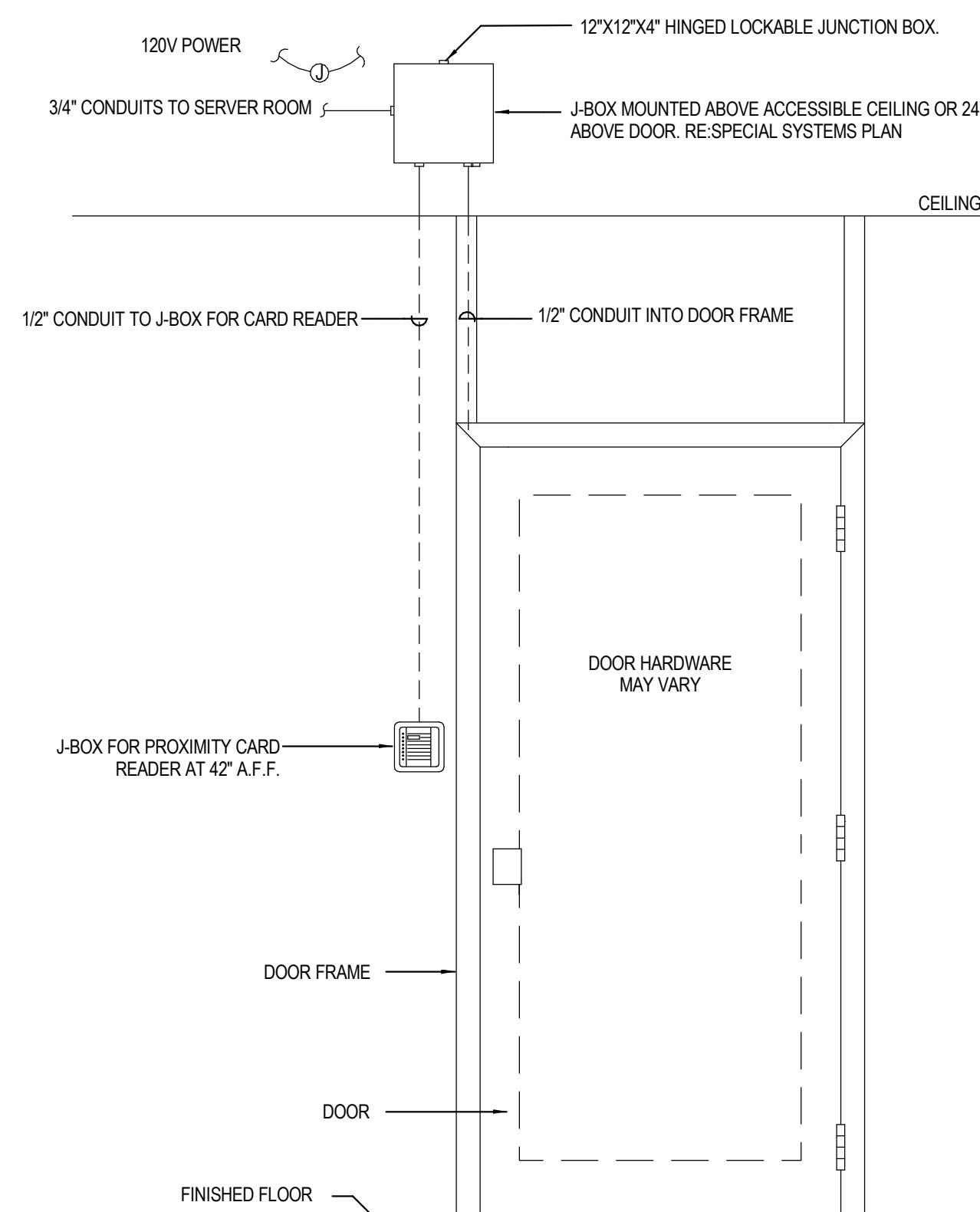


#### GENERAL NOTES:

- A. ALL SECURITY CABLING SHALL BE ROUTED IN RACEWAYS.



④ MAIN ENTRANCE CARD ACCESS  
NTS



⑤ SINGLE DOOR ENTRANCE CARD ACCESS  
NTS

ARCHITECT:

**COLE ARCHITECTS**

COLE ARCHITECTS | 802 W. BANNOCK SUITE 208  
Boise, ID 83702 | (208) 345-1800

**TCA**

architecture • planning

TCA | 8211 Roosevelt Way NE  
Seattle, WA 98115 | (206) 522-3520

STAMP:

PRELIMINARY



CONSULTANT:



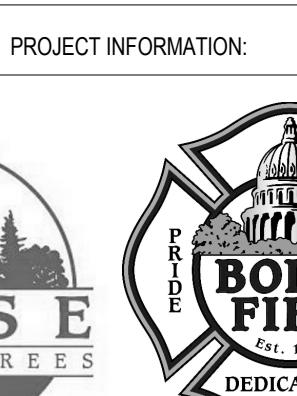
**MUSGROVE**

ENGINEERING, P.A.

234 S. Whisewood Way  
Boise, Idaho 83709  
208 354 0585  
www.musgrovepa.com

OVER 30 YEARS OF EXCELLENCE

project number: 15-125



**City of Boise Fire Station 8**  
3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

MARK

DATE

DESCRIPTION

PROJECT PHASE 75% CD

PROJECT NUMBER 15-28

PROJECT MANAGER J. Chatfield

PROJECT ARCHITECT J. Chatfield

DESIGN J. Chatfield

DRAWN BY RM/TM

SHEET NAME:

**ELECTRICAL DETAILS**

SHEET NUMBER:

**E501**

01.04.16

COLE ARCHITECTS

COLE ARCHITECTS | 802 W. BANNOCK SUITE 208

Boise, ID 83702 | (208) 345-1800



architecture • planning

TCA | 8211 Roosevelt Way NE  
Seattle, WA 98115 | (206) 522-3520

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NOT FOR CONSTRUCTION

01-28-16

CONSULTANT:

MUSGROVE  
ENGINEERING, P.A.234 S. Whisewood Way  
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PROJECT INFORMATION:



City of Boise Fire Station 8

3575 W. Overland Rd. Boise, ID 83705

REVISIONS:

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |

|                   |              |
|-------------------|--------------|
| PROJECT PHASE     | 75% CD       |
| PROJECT NUMBER    | 15-28        |
| PROJECT MANAGER   | J. Chatfield |
| PROJECT ARCHITECT | J. Chatfield |
| DESIGN            | J. Chatfield |
| DRAWN BY          | RM/TM        |

SHEET NAME:

|                    |
|--------------------|
| ELECTRICAL DETAILS |
| 0                  |
| SHEET NUMBER:      |
| E502               |
| 01.04.16           |

