



CITY OF BOISE FIRE STATION 4

CONTRACT DRAWINGS FOR:

CITY OF BOISE FIRE STATION 4

8485 W Ustick Rd
Boise, ID 83704

PROJECT NO. 15-27
PLOT DATE: 02.02.16



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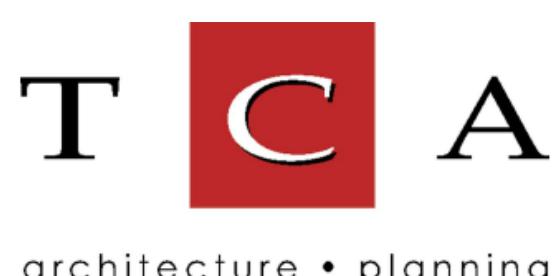
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NOT FOR CONSTRUCTION

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STAMP:

NOT FOR CONSTRUCTION

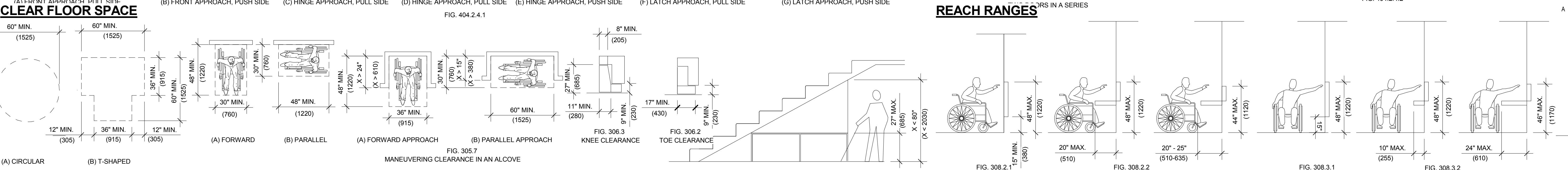
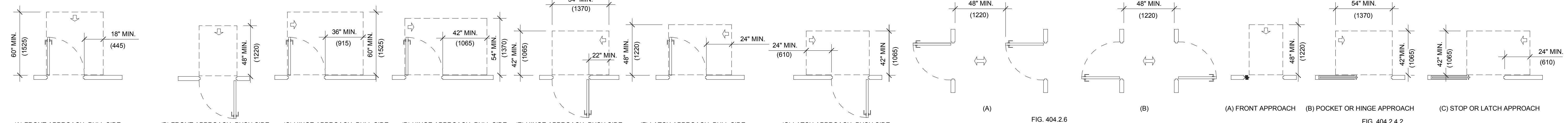
ABBREVIATIONS:	ARCHITECTURAL SYMBOLS	GENERAL PROJECT NOTES:	VICINITY MAP:	PROJECT INFORMATION
<p>ABBREVIATION</p> <p>AB ANCHOR BOLT AFF ABOVE FINISH FLOOR ALUM ALUMINUM APPROX APPROXIMATELY BD BODD BLDG BUILDING BM BEAM BOT BOTTOM BRG BEARING CONT CONNECTION/CONSTRUCTION JOINT CLR CLEAR CMU CONCRETE MASONRY UNIT COL COLUMN CONN CONNECTION 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 DO DOME EXP EXPANSION (F) FUTURE FB FLAT BAR FD FLOOR DRAIN FEFC FIRE EXTINGUISHER CABINET FIN FINISH FLASH FLASHING FLR FLOOR FOB FACE OF BRICK FOF FACE OF FOUNDATION FOS FACE OF STUD FT FOOT/FEET GA GAUGE GALV GALVANIZED GI GROUNDING GYP GYPSUM H HIGH HB HOSE BIB HM HOLLOW METAL OR HERMAN MILLER HOMERIZ HOMERIZED 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 MIN MINIMUM MO MASONRY OPENING NEW NEW NIC NOT IN CONTRACT NO NUMBER NTS NOT TO SCALE OC ON CENTER OD OUTSIDE DIAMETER OH OPPOSITE HAND OPENING OPN OPENING OPS OPPOSITE PL PLATE PROJ PROJECTION PT POINT R RISER REL RELOCATED RAD RADIAL RD ROOF DRAIN REF REFERENCE REINF REINFORCEMENT, REINFORCED REQ REQUIREMENT ROD ROUGH OPENING RWC RAIN WATER CONDUCTOR OR DOWNSPOUT SECT SECTION SIM SIMILAR SHT SHEET SPC SPECIFICATION SQ SQUARE STD STANDARD STL STEEL STRU STRUCTURAL TEL TELEPHONE TO TOP 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 WORK SURFACE WT WEIGHT WWF WELDED WIRE FABRIC</p> <p>View Name A-9 1/8" = 1'-0"</p> <p>GENERAL PROJECT NOTES:</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>E. ALL BUILDING COMPONENTS ARE TO BE INSTALLED PER THE MANUFACTURER INTENDED USE AND WITH APPROPRIATE ATTACHMENT METHODS. THIS INCLUDES, BUT IS NOT LIMITED TO: REQUIRED CLEARANCES, REQUIRED ATTACHMENT TECHNIQUES, FASTENING METHODS & APPROVED SUBSTRATES. CONTACT ARCHITECT IMMEDIATELY BEFORE PROCEEDING WITH INSTALLATION OF COMPONENTS THAT DO NOT MEET THE MANUFACTURER'S RECOMMENDATIONS.</p> <p>F. UNLESS NOTED OTHERWISE CONSTRUCT CASEWORK PER STANDARDS ESTABLISHED BY THE ARCHITECTURAL WOODWORK STANDARDS MOST CURRENT ADDITION. CONSTRUCT PER CUSTOM FINISH DESIGN STANDARDS.</p> <p>G. FIRE SPRINKLER SYSTEM IS TO BE IN COMPLIANCE WITH ADOPTED VERSIONS OF NFPA 13 AND INTERNATIONAL BUILDING CODE, 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.</p> <p>H. SCREEN MECHANICAL SYSTEMS FROM TRANSFERRING DUST AND DEBRIS FROM PROJECT AREA TO THE REMAINDER OF THE BUILDING.</p> <p>I. DO NOT SCALE DRAWINGS. IF SPECIFIC DIMENSIONS ARE NEEDED CONSULT ARCHITECT.</p> <p>J. FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALED DRAWINGS. WHERE DISCREPANCIES OCCUR, THEY SHALL BE REPORTED TO ARCHITECT FOR RESOLUTION.</p> <p>K. DETAILED DRAWINGS AND LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.</p> <p>L. 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.</p> <p>M. PROVIDE WALL BACKING FOR ALL WALL MOUNTED BUILDING COMPONENTS, SUCH AS BUT NOT LIMITED TO MILLWORK, BATHROOM ACCESSORIES, HANDBLARS, 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.</p> <p>N. THE DRAWINGS INDICATE LOCATION, DIMENSIONS, REFERENCE, AND TYPICAL DETAILS OF CONSTRUCTION. THE DRAWINGS DO NOT INDICATE EVERY CONDITION. 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EXAMINATION AND ACCEPTANCE OF CONDITIONS: BEFORE PROCEEDING WITH EACH COMPONENT OF THE WORK, EXAMINE SUBSTRATES, AREAS, AND CONDITIONS WITH INSTALLER OR APPLICATOR PRESENT WHERE INDICATED, FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE. RECORD OBSERVATIONS.</p> <p>CC. 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.</p> <p>DD. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. PROCEEDING WITH THE WORK INDICATES ACCEPTANCE OF SURFACES AND CONDITIONS.</p> <p>EE. MAKE JOINTS OF UNIFORM WIDTH. WHERE JOINT LOCATIONS IN EXPOSED WORK ARE NOT INDICATED, ARRANGE JOINTS FOR THE BEST VISUAL EFFECT. 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IF QUESTIONS ARISE CONTACT ARCHITECT FOR INTERPRETATION PRIOR TO CONSTRUCTION.</p>	<p>VICINITY MAP:</p> <p>The Vicinity Map shows the project site's location at 8485 W Ustick Rd, Boise, ID 83704. The site is a rectangular plot bounded by W Ustick Rd to the north, E Ustick Rd to the south, and W 16th St to the west. To the east is a residential area with houses and streets like 16th St, 17th St, and 18th St. A small church is visible near the intersection of W 16th St and E Ustick Rd. A fire station is located on W 16th St between W Ustick Rd and E Ustick Rd. The site itself is mostly cleared land with some existing trees and shrubs.</p>	<p>PROJECT INFORMATION</p> <p>ADDRESS: 8485 W USTICK RD PROPERTY DESCRIPTION: PAR #3794 OF NLY POR LOT 16 SUBURBAN HOME SUB POR PARCEL A R/S 9355 #3793-S PARCEL NUMBER: R8207003794 LOT SIZE: .453 ACRES NUMBER OF STORIES: 2 SQUARE FOOTAGE: SEE G003 & G004 FOR BUILDING SQUARE FOOTAGE CONSTRUCTION TYPE: VB OCCUPANCY: GROUP B-BUSINESS, A3-ASSEMBLY, S1 & S2-STORAGE, R2-RESIDENTIAL LAND USE CODE: R-1C FIRE SPRINKLERS: FULL SPRINKLERS</p>	

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G002	ACCESSIBLE CLEARANCES AND REQUIREMENTS	S450	WALL SECTIONS	CONCRETE MASONRY UNITS
G003	1ST FLOOR CODE ANALYSIS & LIFE SAFETY PLAN	S451	WALL SECTIONS	BRICK
G004	2ND FLOOR CODE ANALYSIS & LIFE SAFETY PLAN	S452	WALL SECTIONS	RIGID INSULATION (SECTION)
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C1.36	LAYOUT AND MATERIALS DETAILS	S602	TYPICAL MASONRY DETAILS	STEEL (SECTION)
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L1.86	IRRIGATION DETAILS	S810	STAIR DETAILS	
A101	SITE PLAN	S900	EXTERIOR WALL TYPICAL DETAILS	
A102	SITE PLAN DETAILS	S901	EXTERIOR WALL TYPICAL DETAILS	
A200	1ST FLOOR PLAN	S902	EXTERIOR WALL TYPICAL DETAILS	
A201	2ND FLOOR PLAN	S903	EXTERIOR WALL TYPICAL DETAILS	
A202	1ST FLOOR DIMENSION PLAN	S904	EXTERIOR WALL TYPICAL DETAILS	
A203	2ND FLOOR DIMENSION PLAN	S905	TYPICAL EXTERIOR WALL DETAILS	
A204	ENLARGED PLANS	M000	MECHANICAL COVER SHEET	
A205	ENLARGED STAIR PLANS AND DETAILS	M001	MECHANICAL COMCHECK	
A300	EXTERIOR ELEVATIONS	M002	MECHANICAL ZONING PLANS	
A301	EXTERIOR ELEVATIONS	M101	1ST FLOOR HVAC PLAN	

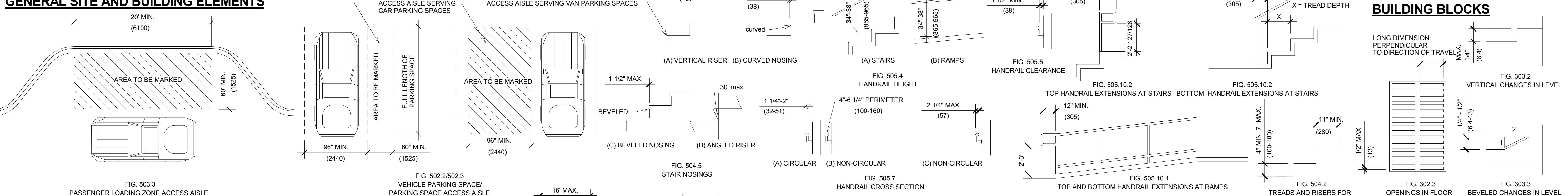
NOT FOR CONSTRUCTION

CONSULTANT:

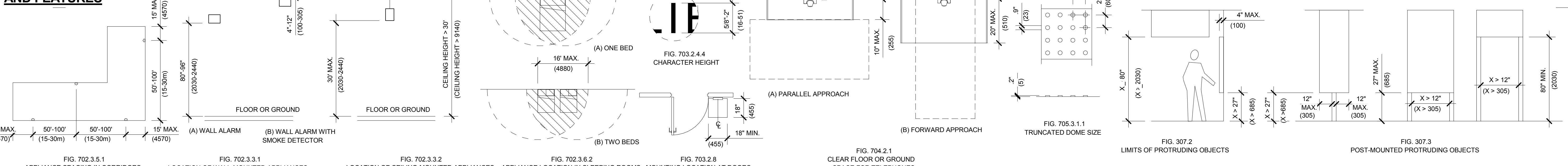
DOORS AND DOORWAYS



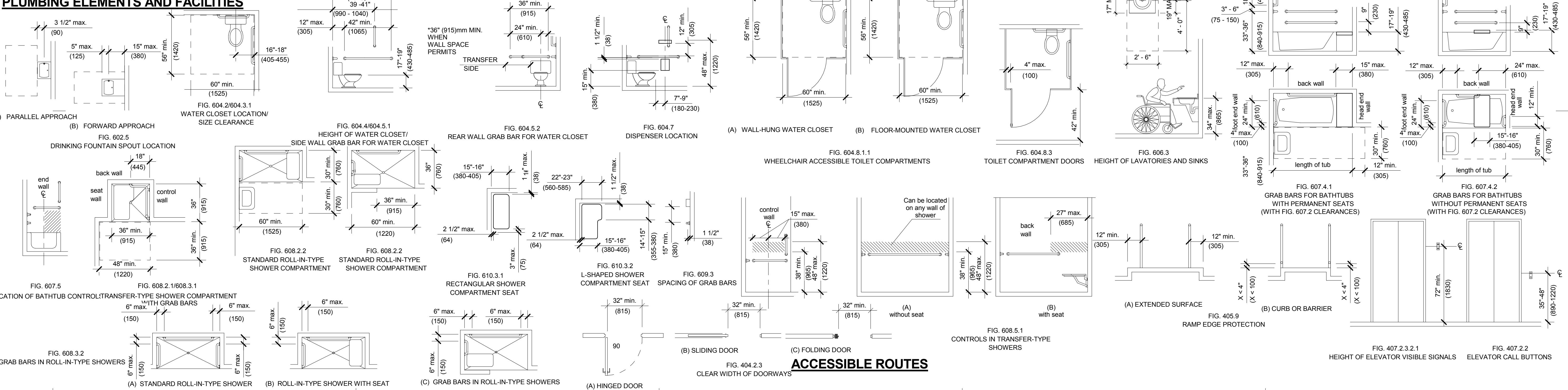
GENERAL SITE AND BUILDING ELEMENTS



COMMUNICATION ELEMENTS AND FEATURES



PLUMBING ELEMENTS AND FACILITIES



REVISIONS:		
MARK	DATE	DESCRIPTION

PROJECT PHASE	75% CD'S
PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	J. Chatfield, C. Clay, R. Stewart

SHEET NAME:

ACCESSIBLE CLEARANCES AND REQUIREMENTS

SHEET NUMBER:

G002

NOT FOR CONSTRUCTION

CONSULTANT:

PROJECT INFORMATION:

City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

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

PROJECT PHASE: 75% CD'S

PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	J. Chatfield, C. Clay, R. Stewart

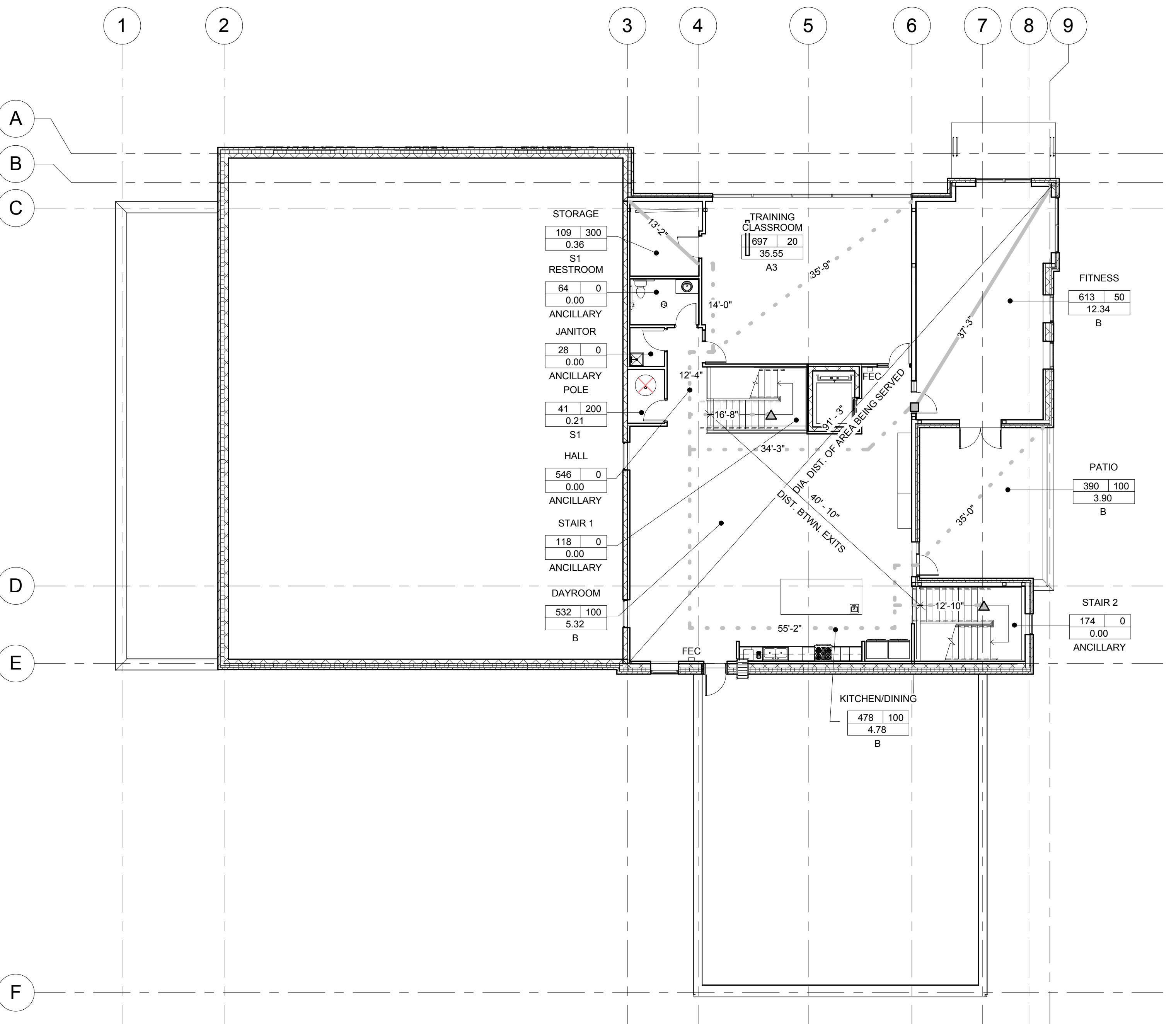
SHEET NAME:

2ND FLOOR CODE ANALYSIS & LIFE SAFETY PLAN

SHEET NUMBER:

G004

02.02.16



2ND FLOOR CODE PLAN

3/32" = 1'-0"

Used Group	Description	Required water closet		Required lavatories		Required bath or shower	Required drinking fountain
		Male:	Female:	Male:	Female:		
A-3	Auditoriums without permanent seating, art galleries, exhibition halls, arcades and gymsnasiums	No. of Occupants	1 per 125	1 per 65	1 per 200	1 per 200	1 per 500
		36	0.14	0.28	0.09	0.09	0.07
B	Building for the transaction of business, professional services, other services and similar uses, except office building, banks, light industrial and similar uses	No. of Occupants	1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50	1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80	1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80	1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80	1 per 150
S-1 & S-2	Structure for storage of goods, warehouses, storehouse and freight depots, low and moderate hazard	No. of Occupants	1 per 100	1 per 100	1 per 100	1 per 100	1 per 1000
		1	0.01	0.01	0.01	0.01	0.036
		Total =	1	1	1	1	1
		PROVIDED =	1	0	1	0	1

USE FLOOR BELOW

MINIMUM NUMBER OF REQUIRED PLUMBING FACILITIES PER T-2902.1

PLUMBING CODE REVIEW
2ND FLOOR

1" = 1'-0"

CODE REVIEW:	GENERAL NOTES CODE PLAN:
ADDRESS: 8485 W USTICK ROAD BOISE, ID 83704	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: 2012 INTERNATIONAL BUILDING CODE 2012 INTERNATIONAL RESIDENTIAL CODE (PARTS I - IV AND IX, APPENDIX G) 2012 INTERNATIONAL ENERGY CONSERVATION CODE IDAHO STATE PLUMBING CODE 2014 NATIONAL ELECTRIC CODE 2012 INTERNATIONAL FIRE CODE 2012 INTERNATIONAL MECHANICAL CODE 2012 INTERNATIONAL FUEL GAS 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: FIRE SPRINKLER SYSTEM: YES FIRE ALARM SYSTEM: YES	C. THE ISSUANCE OR GRANTING OF A PERMIT OR APPROVAL OF PLANS, SPECIFICATIONS, AND COMPUTATIONS SHALL NOT BE CONSTRUED 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 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 PREFORMED 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 OF OTHER ORDINANCES OF THIS JURISDICTION. INSPECTIONS PRESUMING TO GIVE AUTHORITY TO VIOLATE OR CANCEL THE PROVISIONS OF THE IBC OR OF OTHER ORDINANCES OF THIS JURISDICTION SHALL NOT BE VALID.
FULLY SPRINKLED BUILDING PER SECTION 903.2.6 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: CONSTRUCTION TYPE: VB GROUP: B - BUSINESS LOWEST AREA (PER STORY) = 9,000 SF ALLOWABLE HEIGHT = 2 STORY SECTION 506 - BUILDING AREA MODIFICATIONS: 506.3 AUTOMATIC SPRINKLER SYSTEM INCREASE 200%: ALLOWABLE FLOOR AREA = 18,000 SF PER STORY ALLOWABLE HEIGHT = 3 STORIES	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.
- ACTUAL 1ST STORY BUILDING AREA: 10,141 SF - ACTUAL 2ND STORY BUILDING AREA: 3,619 SF - TOTAL BUILDING AREA: 13,760 SF	G. NEW FIRE SPRINKLER SYSTEM OR MODIFIED EXISTING FIRE SPRINKLER SYSTEM ARE TO BE IN COMPLIANCE WITH ADOPTED VERSIONS OF NFPA 13 AND INTERNATIONAL BUILDING CODE. 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.
100 OCCUPANT LOAD (SEE SCHEDULE THIS SHEET & G003): 1ST STORY: 70 OCCUPANTS 2ND STORY: 63 OCCUPANTS TOTAL: 133 OCCUPANTS	KEY NOTES: #
MEANS OF EGRESS 11014.3 COMMON PATH OF EGRESS TRAVEL (SEE PLANS): IN OCCUPANCIES OTHER THAN GROUPS, H-1, H-2, H-3, B, S, F, R-2, R-3, AND L-3, THE COMMON PATH OF EGRESS TRAVEL SHALL NOT EXCEED 75 FEET. - MAXIMUM TRAVEL DISTANCE = 37'-3" (SEE PLANS)	1. XXX
1015.2 EXIT ACCESS (SEE PLANS): THE EXIT DOORS SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN 1/2 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. - 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 = 91'-3" / 3 = 30'-5" MINIMUM ACTUAL = 40'-10"	LIFE SAFETY LEGEND
1016.2 EXIT ACCESS TRAVEL DISTANCE (SEE PLANS): TYPE B OCCUPANCY WITH FIRE SPRINKLER = 300' PERMITTED FIRST FLOOR TRAVEL DISTANCE (WORST CASE) = 94'-9" SECOND FLOOR TRAVEL DISTANCE (WORST CASE) = 158'-0"	NAME ROOM AREA XXX OCCUPANCY LOAD FACTOR XXX OCCUPANCY LOAD XXX OCCUPANCY TYPE XXX
1016.1.1 EXITS OR EXIT ACCESS DOORWAYS FROM SPACES (SEE PLANS): (2) EXITS SHALL BE PROVIDED IN B OCCUPANCY UNDER 500 OCCUPANTS - (2) REQUIRED - (3) PROVIDED	EXIT BUILDING EXIT & OVERHEAD EXIT SIGNAGE PER JURISDICTION REQUIREMENTS
1018.1 (TABLE) CORRIDOR FIRE-RESISTANCE RATING: 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. - RATED CORRIDOR NOT REQUIRED.	FEC FIRE EXTINGUISHER - PROVIDE LARSEN'S MP10 FIRE EXTINGUISHER W/ VERTICAL DUO 2-1/2" SEMI-RECESSED CABINET OR APPROVED EQUAL.
906.1 PORTABLE FIRE EXTINGUISHERS (SEE PLANS): PROVIDE FIRE EXTINGUISHER(S) PER IBC REQUIREMENTS, TYPE A-1, MAX SPACING 75 LINEAL FEET (SEE PLANS).	START STOP EXIT ACCESS PATH CONT. OF PATH FROM FLOOR ABOVE OR BELOW DISTANCE END EXIT ACCESS COMMON PATH OF EGRESS TRAVEL
PLUMBING FIXTURE REQUIREMENTS: SEE "PLUMBING FIXTURE REQUIREMENTS" (THIS SHEET) FOR DETAILED BREAKDOWN OF REQUIRED FIXTURES AND PROVIDED FIXTURES.	-- - FIRE RATED WALL - SEE KEYNOTE 1 THIS SHEET.

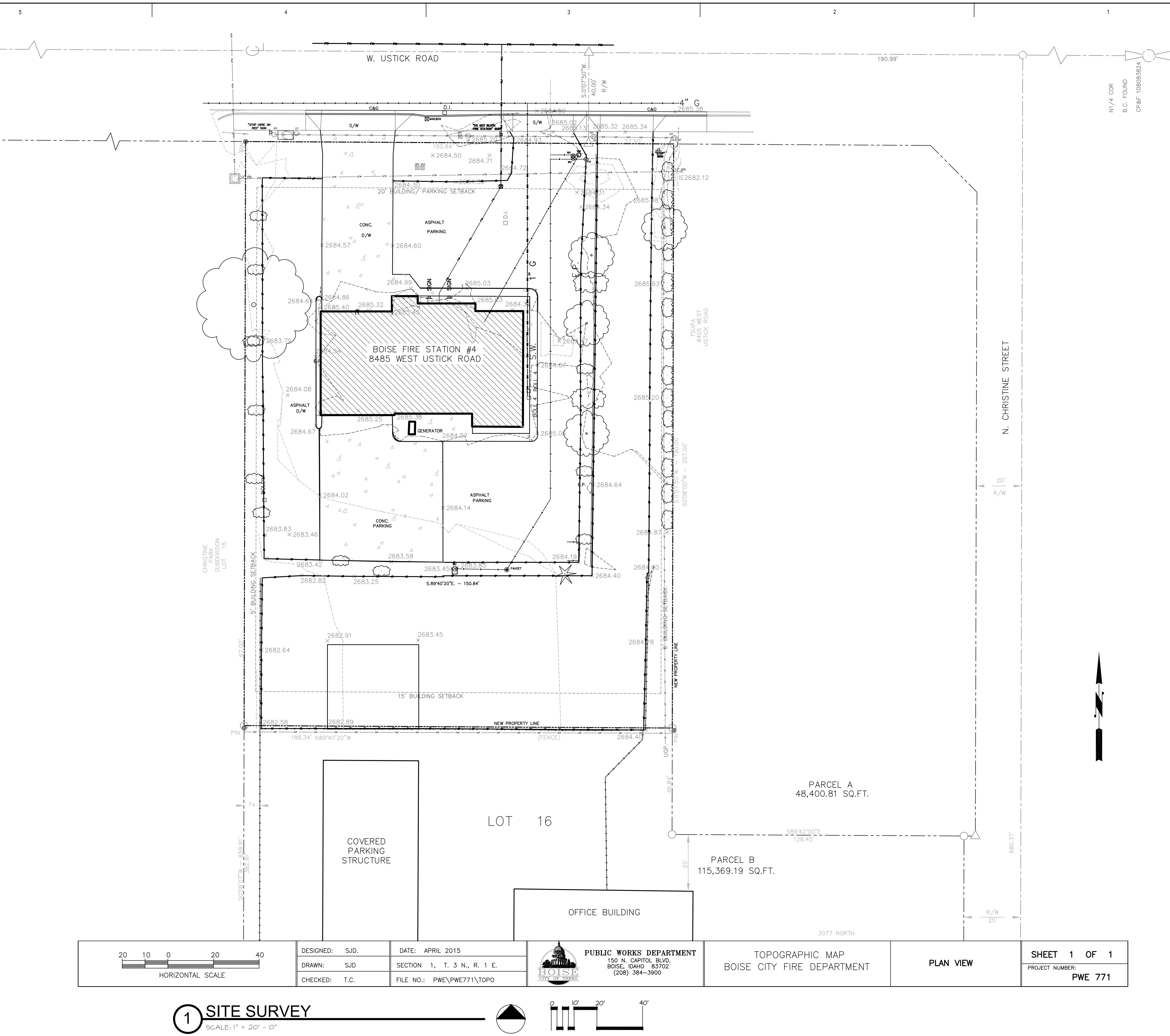
OCCUPANCY LOAD:

ROOM NAME	AREA	OCCUPANCY TYPE	OCCUPANCY LOAD FACTOR	OCCUPANCY LOAD	FLOOR
2ND FLOOR					
TRAINING CLASSROOM	697 SF	A3	20	35.55	2ND
STORAGE	109 SF	S1	300	0.36	2ND
RESTROOM	64 SF	ANCILLARY	0	0.00	2ND
KITCHEN/DINING	478 SF	B	100	4.78	2ND
HALL	546 SF	ANCILLARY	0	0.00	2ND
STAIR 1	118 SF	ANCILLARY	0	0.00	2ND
POLE	41 SF	S1	200	0.21	2ND
JANITOR	28 SF	ANCILLARY	0	0.00	2ND
FITNESS	613 SF	B	50	12.34	2ND
DAYROOM	532 SF	B	100	5.32	2ND
PATIO	390 SF	B	100	3.90	2ND
	3616 SF			62.46	

SHEET NUMBER:

G004

02.02.16



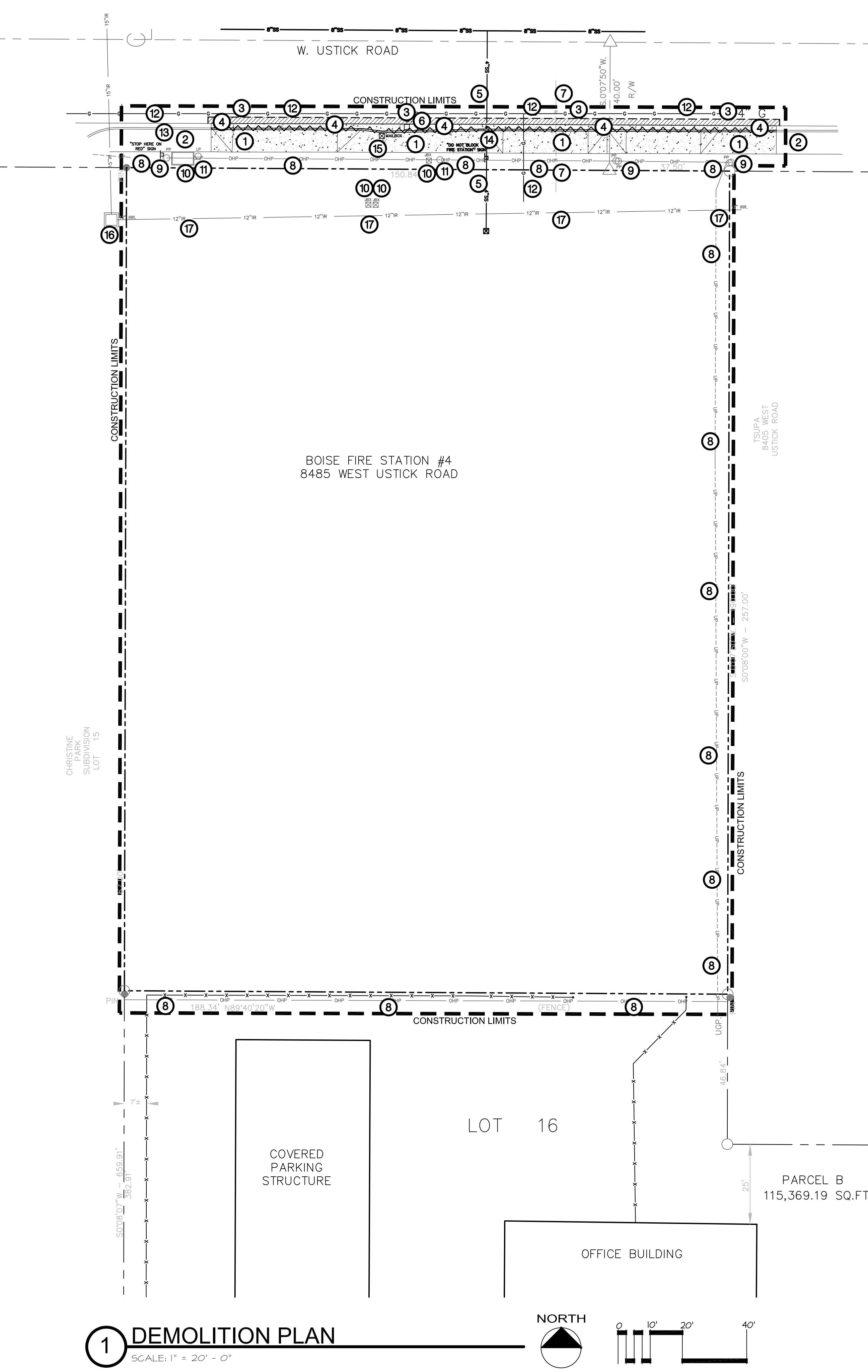
COLE ARCHITECTS		
COLE ARCHITECTS 802 W. BANNOCK SUITE 208 Boise, ID 83702 (208) 345-1800		
T C A architecture • planning <small>TCA 8211 Roosevelt Way NE Seattle, WA 98115 (208) 522-3820</small>		
NOT FOR CONSTRUCTION		
CONSULTANT:		
BRECKON land design <small>Landscape Architecture • Erosion & Sediment Control • Geographic Info Systems • Graphic Communication • Water Management • Irrigation Design • Land Planning</small>		
PROJECT INFORMATION:		
  City of Boise Fire Station 4 8485 W. Ustick Rd. Boise, ID 83704		
REVISIONS:		
MARK	DATE	DESCRIPTION
Project Status		
PROJECT NUMBER	15043	
PROJECT MANAGER	R. TeBeau	
PROJECT ARCHITECT	R. TeBeau	
DESIGN	JB	
DRAWN BY	JB, LP, JR	
SHEET NAME:		
SITE SURVEY		
C1.10		

1 SITE SURVEY

SCALE: 1" = 20' - 0"

SUMMARY NOTES

1. LIMITS OF WORK ARE IDENTIFIED ON PLANS.
2. TECHNICAL SPECIFICATIONS ARE AN INTEGRAL PART OF THESE DRAWINGS. UPON SUBMISSION OF THE CONTRACTOR'S BID, IT IS REQUIRED THAT THE CONTRACTOR HAS REVIEWED THE TECHNICAL SPECIFICATIONS AND THE CONTRACTOR AGREES TO ABIDE BY THE REQUIREMENTS AND CONDITIONS CONTAINED THEREIN. THIS INCLUDES SPECIFICATIONS BOUND SEPARATELY 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 ENTERING INTO CONTRACT. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE ON BEHALF OF THE CONTRACTOR ON 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 72 HOURS PRIOR TO ANY EXCAVATION. 1-800-342-1595.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STREETS 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 MATERIAL AND SERVICES 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 TIMES, AND PROVIDING REQUIRED MATERIALS AT THE PROJECT SITE 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 CONCRETE, METAL, STRUCTURES, ETC., NOT SPECIFICALLY NOTED FOR REMOVAL, SHALL BE RETAIRED AND PROTECTED. EXISTING CONDITIONS AND STRUCTURES THAT ARE DAMAGED DURING THE COURSE OF CONSTRUCTIONS SHALL BE REPLACED BY THE 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 72 HOURS PRIOR TO ANY CONSTRUCTION.
11. ALL CONSTRUCTION IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE LATEST EDITION OF THE ISPMIC AND THE GOVERNING AGENCY'S SUPPLEMENTAL SPECIFICATIONS. NO EXCEPTIONS TO THESE STANDARDS WILL BE ALLOWED UNLESS SPECIFICALLY AND PREVIOUSLY APPROVED IN WRITING 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 PROVIDED 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 ON OUR PLANS AND INFORMATION PROVIDED 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 CORRECTIVE 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. THE PROJECT OWNER IS NOT SAMES OF THE CONTRACTOR'S 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 DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL AND ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
20. IF 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 A QUALIFIED PROFESSIONAL ARCHEOLOGIST ASSESSES THE SIGNIFICANCE OF THE DISCOVERY. THE OWNER SHALL BE NOTIFIED IMMEDIATELY OF ANY FINDS. IN CONSULTATION WITH THE ARCHEOLOGIST 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. A REASONABLE EFFORT HAS 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 FACILITIES SHOWN HERE OR FOR THE EXISTENCE OF OTHER UNDERGROUND UTILITIES OR OBJECTS WHICH MAY NOT BE PERTINENT TO THIS PLAN. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ANY EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE DUE TO CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
22. IN THE EVENT OF A DISCREPANCY, NOTIFY BRECKON LAND DESIGN IMMEDIATELY.



Know where below.
Call before you dig.

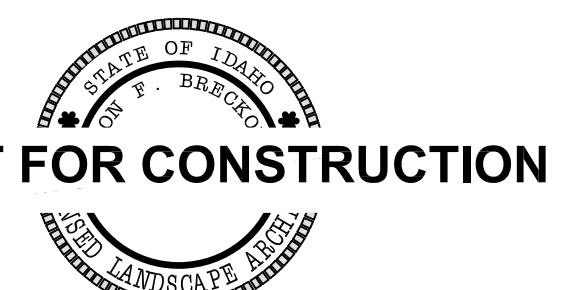
Call 2 business days
in advance before
you plan to dig
to have underground
member utilities

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

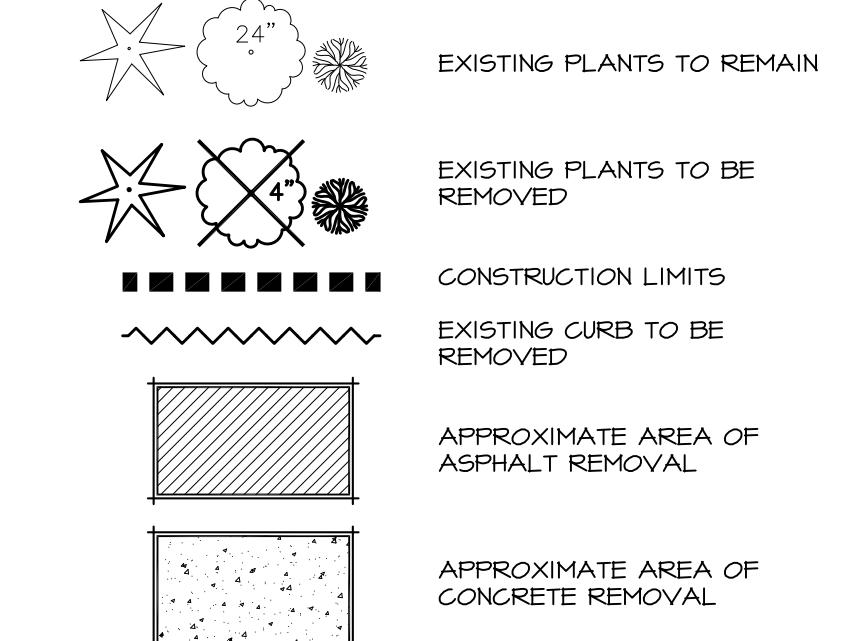
T C A
architecture • planning

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

STAMP:



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 DELINEATED. COORDINATE WITH LAYOUT PLAN.
- ② SAVE AND PROTECT EXISTING CONCRETE FLAT WORK.
- ③ SANCUT AND REMOVE EXISTING ASPHALT.
- ④ REMOVE EXISTING CONCRETE CURB AND GUTTER.
- ⑤ SAVE AND PROTECT EXISTING SANITARY SEWER SERVICE.
- ⑥ SAVE AND PROTECT EXISTING STORM DRAIN INLET AND ASSOCIATED PIPING.
- ⑦ SAVE AND PROTECT EXISTING WATER LINE.
- 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 TRAFFIC SIGNAL BOX AND ASSOCIATED WIRING.
- ⑪ SAVE AND PROTECT EXISTING TRAFFIC SIGNAL POLE AND ASSOCIATED WIRING.
- ⑫ SAVE AND PROTECT EXISTING GAS LINE.
- ⑬ SAVE AND PROTECT EXISTING SIGN.
- ⑭ REMOVE EXISTING SIGN.
- ⑮ REMOVE AND RELOCATE EXISTING MAILBOX, COORDINATE AS REQUIRED.
- ⑯ SAVE AND PROTECT CONCRETE GRAVITY IRRIGATION BOX.
- ⑰ SAVE AND PROTECT EXISTING 12" IRRIGATION PIPE.



City of Boise Fire Station 4
8485 W. Ustick Rd. Boise, ID 83704

PROJECT INFORMATION:

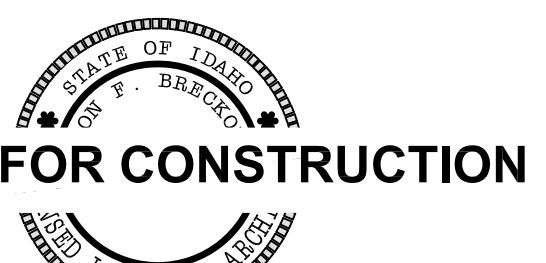
REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE	Project Status
PROJECT NUMBER	15043
PROJECT MANAGER	R. TeBeau
PROJECT ARCHITECT	R. TeBeau
DESIGN	JB
DRAWN BY	JB, LP, JR

SHEET NAME:

DEMOLITION PLAN	SHEET NUMBER:
C1.20	
1.29.16	



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 83744

PROJECT INFORMATION:


City of Boise Fire Station 4
 8485 W. Ustick Rd. Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION
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PROJECT PHASE	Project Status
PROJECT NUMBER	15043
PROJECT MANAGER	R. TeBeau
PROJECT ARCHITECT	R. TeBeau
DESIGN	JB
DRAWN BY	JB, LP, JR
SHEET NAME:	

LAYOUT AND MATERIALS PLAN

C1.30

LAYOUT LEGEND

- PROPERTY LINE (VERTICAL)
- P.O.B. (POINT OF BEGINNING)
- 2ND POINT
- POINT OF BEGINNING FOR GRID ESTABLISHMENT
- SECOND POINT FOR GRID ESTABLISHMENT
- GRID LINE
- BASELINE
- TURN POINT
- CURVE (SEE CURVE TABLE)
- COORDINATE POINT
- SOIL TESTING LOCATION - SEE SPECIFICATIONS
- BIKE RACK AS SPECIFIED
- CONCRETE WHEEL STOP
- TRASH RECEPTACLE AS SPECIFIED
- INTEGRAL CURB / WALK LOCATION
- FIRE LANE STRIPING SEE DETAIL
- VERTICAL CURBING LOCATION
- CURB AND GUTTER LOCATION
- SCORE JOINT (TYPICAL)
- EXPANSION JOINT (TYPICAL)
- ACCESSIBLE RAMP LOCATION WITH DETECTABLE WARNING SURFACE
- NEW CONCRETE FLATWORK
- SITE SIGNAGE IDENTIFICATION
- SIGN LOCATION- ALL SIGN POLES LOCATED IN TURF AREAS TO RECEIVE CONCRETE MONSTRIPS- SEE DETAIL
- LIGHT POLE WITH CONCRETE APRON
- LIGHT POLE WITHOUT CONCRETE APRON
- GEE ELECTRICAL SHEETS AND DIV. 16 SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL LIGHT POLE AND BOLLARD BASES ADJACENT IN LAWNS ARE TO RECEIVE CONCRETE MONSTRIPS- SEE DETAIL

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 SIGN BASE DETAIL FOR INSTALLATION OF ALL SIGNS.
4. REFER TO LANDSCAPE 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

- REINFORCED CONCRETE SLAB AS DETAILED
- CONCRETE FLATWORK WITH AGGREGATE BASE AS DETAILED
- LARGE ROCK MULCH OVER PROVIDED TOPSOIL AND PRE-EMERGENT HERBICIDE APPLICATION AS SPECIFIED.
- PROPOSED BUILDINGS
- PERMEABLE PAVERS AS SPECIFIED AND DETAILED

SIGNAGE LEGEND

- | | | |
|----|--|--|
| S1 | | STOP |
| S2 | | STATE APPROVED DISABLED PARKING SIGN 12' x 18' |
| S3 | | PROVIDE VAN SIGN WHERE APPROPRIATE 12' x 6' |

PAINTED STRIPING

ALL PAINT TO BE 100% ACRYLIC MARKING PAINT, MEETING FEDERAL SPECIFICATIONS TTP 1952 TYPES 1 AND 2.
 ALL SURFACES SCHEDULED TO RECEIVE PAINT FINISH. REMOVE DIRT, LOOSE MORTAR, SCALE, SALT OR ALKALI PONDER AND OTHER FOREIGN MATTER. REMOVE OIL AND GREASE WITH A SOLUTION OF TRI-SODIUM PHOSPHATE; RINSE WELL AND ALLOW TO DRY. REMOVE STAINS CAUSED BY WEATHERING OF CORODING METALS WITH A SOLUTION OF SODIUM METASILICATE AFTER THOROUGHLY WETTING WITH WATER. ALLOW TO DRY.

PAINTED STRIPING ON PAVING PARKING STALL STRIPES TO BE 4" WIDE WHITE, UNLESS NOTED OTHERWISE.

A. HANDICAP SYMBOLS SHALL BE PAINTED STANDARD BLUE.

B. "PARKING - FIRE ZONE" SHALL BE PAINTED RED.

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

CALLOUT LEGEND

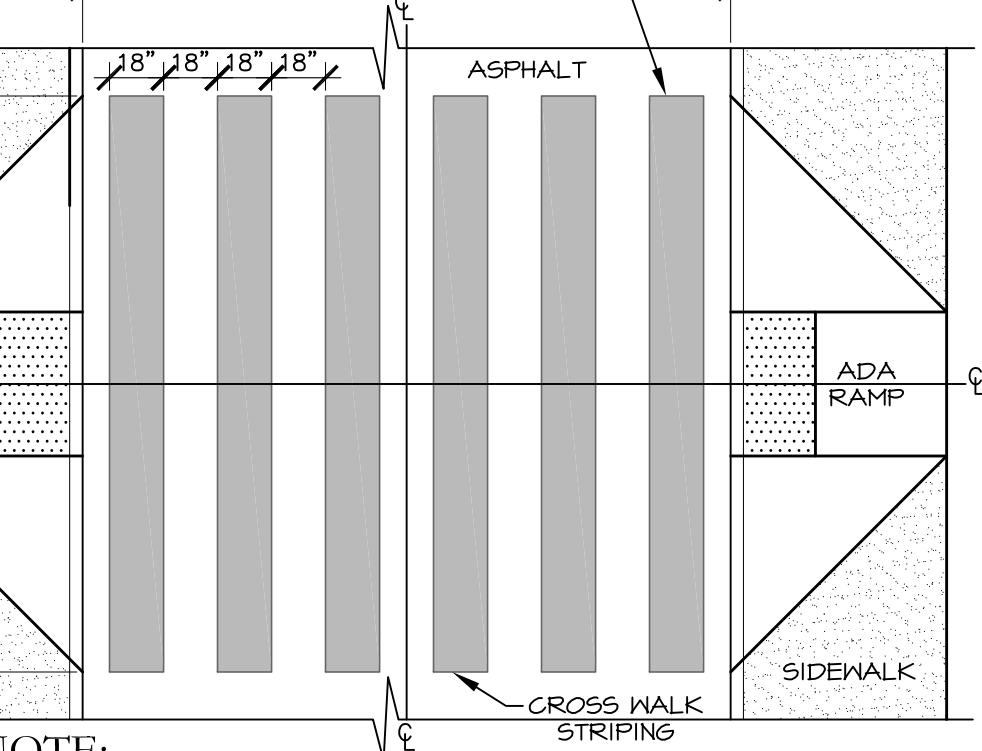
- ① DETECTABLE WARNING, INSTALL PER MANUFACTURER'S RECOMMENDATIONS, SEE DETAIL I/LI.35.
- ② TYPE ONE ADA RAMP SEE DETAIL 2/LI.35.
- ③ TYPE TWO ADA RAMP SEE DETAIL 3/LI.35.
- ④ TYPE THREE ADA RAMP SEE DETAIL 4/LI.35.
- ⑤ 6" CONCRETE VERTICAL CURB, SEE DETAIL 6/LI.36.
- ⑥ REINFORCED CONCRETE FLATWORK, SEE DETAIL 9/LI.35.
- ⑦ THICKENED, SEE DETAIL 11/LI.35.
- ⑧ CONCRETE PARKING BUMPER, LOCATE 3'-0" FROM HEAD OF PARKING STALL, SEE DETAIL 5/LI.36.
- ⑨ BIKE RACK, SEE DETAIL 2/LI.30.
- ⑩ INTEGRAL CURB AND SIDEWALK, SEE DETAIL 4/LI.36.
- ⑪ 24" CURB AND GUTTER, SEE DETAIL 3/LI.36.
- ⑫ TRASH ENCLOSURE, SEE ARCHITECTURAL PLANS.
- ⑬ CONCRETE FLATWORK AT BUILDING, SEE DETAIL 5/LI.35.
- ⑭ CONCRETE FLATWORK, SEE DETAIL 6/LI.35 (TYP).
- ⑮ CONCRETE JOINTS, SEE DETAIL 7/LI.36.
- ⑯ STEEL BOLLARD LOCATION, SEE DETAIL 7/LI.36.
- ⑰ 4" WIDE WHITE PARKING LOT STRIPING, SEE DETAIL 10/LI.36.
- ⑱ ACCESSIBLE PARKING STALL LAYOUT, SEE DETAIL 11/LI.36.
- ⑲ SIGN POST AND FOOTING, SEE DETAIL 9 & 14/LI.36, TYPICAL.

LAYOUT NOTES

1. ESTABLISH SITE LAYOUT GRID FROM POINT OF BEGINNING (P.O.B.) AT THE PK NAIL LOCATED ALONG THE NORTH PROPERTY LINE (SURVEY CONTROL POINT #3) WITH AN ASSUMED COORDINATE OF N:104.262.33' E:251533.03' (VERIFY). ESTABLISH 2ND POINT AT THE MAG NAIL ALONG THE NORTH PROPERTY LINE (SURVEY CONTROL POINT #4) AT 226.53', N 50d 50' E 15d 40' (VERIFY). ESTABLISH 3RD POINT AT THE MAG NAIL ALONG THE NORTH PROPERTY LINE (SURVEY CONTROL POINT #5) WITH AN ASSUMED COORDINATE OF N:104.405.40' E:251524.69' (VERIFY).
2. ADD N:104.000.00', E:251500.00' TO ALL COORDINATE POINTS SHOW IN DRAWING.
3. REFER CLOSELY TO BUILDING LAYOUT DRAWINGS IN RELATION TO SITE LAYOUT ITEMS. CONTRACTOR TO VERIFY LISTED DIMENSIONS PRIOR TO CONSTRUCTION.
4. CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO INITIATION OF ANY DEMOLITION OR CONSTRUCTION OPERATIONS. ANY DAMAGE TO EXISTING UTILITIES ON SITE OR ADJACENT PROPERTY SHALL BE CONTRACTOR'S RESPONSIBILITY.
5. COORDINATE INSTALLATION OF ELECTRICAL AND IRRIGATION CONDUIT AND SLEEVES WITH RESPECTIVE CONTRACTORS.
6. CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION STAKING. STAKING SHALL BE PERFORMED BY REGISTERED LAND SURVEYOR WITHIN THE STATE OF THE PROJECT.
7. ALL ANGLES TO BE TURNED ARE 45D, 90D, OR 135D UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS ARE TO FACE OF CURB, EDGE OF WALK, EDGE OF PAVEMENT, EDGE OF FOUNDATION, EDGE OF WALLS OR CENTER OF POST.
9. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DISTANCES AND GRADIENTS IN THE FIELD AND BRING ANY DISCREPANCIES TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR A DECISION PRIOR TO COMMENCING WITH THE WORK.
10. WHEREVER CONCRETE FLATWORK ABUTS BUILDINGS OR COLUMNS IT SHALL HAVE AN EXPANSION JOINT.
11. PROVIDE JOINTS AS SHOWN ON PLANS. JOINTS ARE AN INTEGRAL PART OF THE DESIGN AND SHALL NOT VARY FROM PATTERNS AND LOCATIONS SHOWN. CONTRACTOR SHALL REMOVE ANY FLATWORK THAT DOES NOT CONFORM TO DESIGN.
12. ALL WALKS AND FLATWORK SHALL BE ESTABLISHED IN THE FIELD FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL LAYOUT THE AREA OR FORM WORK FOR REVIEW BY THE LANDSCAPE ARCHITECT. AFTER REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT, THE CONTRACTOR SHALL PROCEED WITH CONSTRUCTION. IF APPROVAL IS NOT OBTAINED, THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ANY UNAUTHORIZED FIELD ADJUSTMENTS.
13. TRANSITION OF CURVES TO OTHER CURVES AND CURVES TO TANGENTS SHALL BE SMOOTH AND CONTINUOUS.
14. ALL CONCRETE FLATWORK, INCLUDING JOINTS, SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
15. CONTRACTOR SHALL REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL REQUIREMENTS.
16. SEE ELECTRICAL SHEETS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL LIGHT POLE BASES ADJACENT TO SIDEWALKS OR IN LAWNS ARE TO RECEIVE CONCRETE MONSTRIPS AS SPECIFIED.
17. ALL ACCESSIBLE PARKING STALLS AND SIGNS SHALL CONFORM TO ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS FOR ACCESSIBLE PARKING.
18. CONTRACTOR RESPONSIBLE FOR ANY DAMAGE TO NEW OR EXISTING IMPROVEMENTS INCLUDING LANDSCAPE AREAS AS A RESULT OF CONSTRUCTION ACTIVITIES.
19. LAYOUT AS DESIGNED, CONTRACTOR SHALL REMOVE WORK THAT DOES NOT CONFORM TO DRAWINGS AND SPECIFICATIONS.
20. REFER TO MATERIALS AND SIGNAGE PLAN FOR FINISHED SITE MATERIALS, STRIPING, AND SIGNAGE INFORMATION. ALL SIGN POLES LOCATED IN LAWN AREAS ARE TO RECEIVE CONCRETE APRONS.
21. IN THE EVENT OF A DISCREPANCY, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT.

OUTSIDE EDGE OF STRIPING TO ALIGN WITH OUTSIDE EDGE OF RAMP FLARE, TYPICAL.

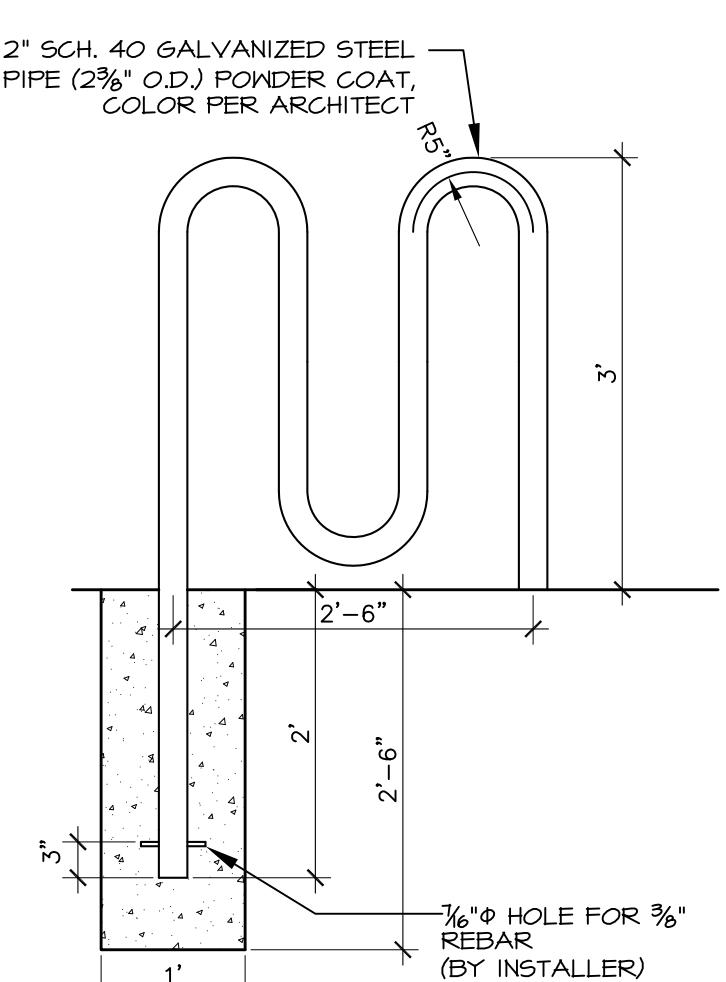
REFER TO PLANS



- NOTE:
 1. REFER TO LAYOUT PLAN FOR EXACT LOCATIONS OF CROSSWALKS.
 2. CROSS WALK STRIPING SHALL BE SOLID WHITE.
 3. PAVEMENT MARKINGS SHALL BE PER I.S.P.W.C. SECTION 1104.

1 CROSSWALK STRIPING

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


2 BIKE RACK

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

1 LAYOUT AND MATERIALS PLAN

SCALE: 1" = 20' - 0"

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NORTH



0' 10' 20' 40'

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0' 10' 20' 40'

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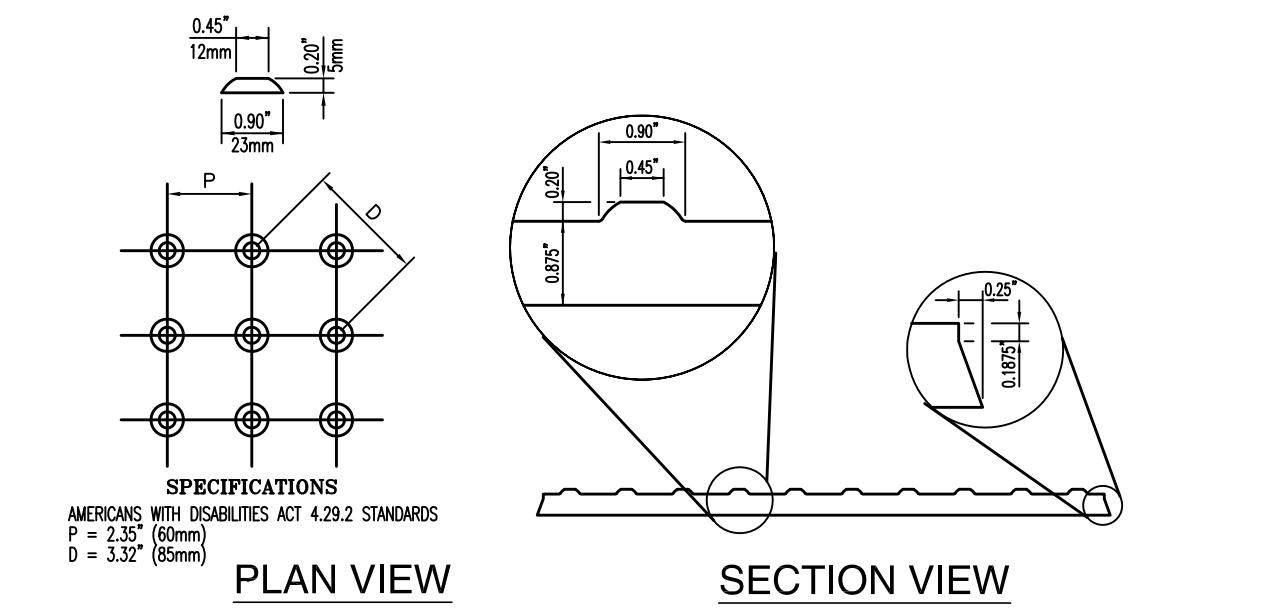
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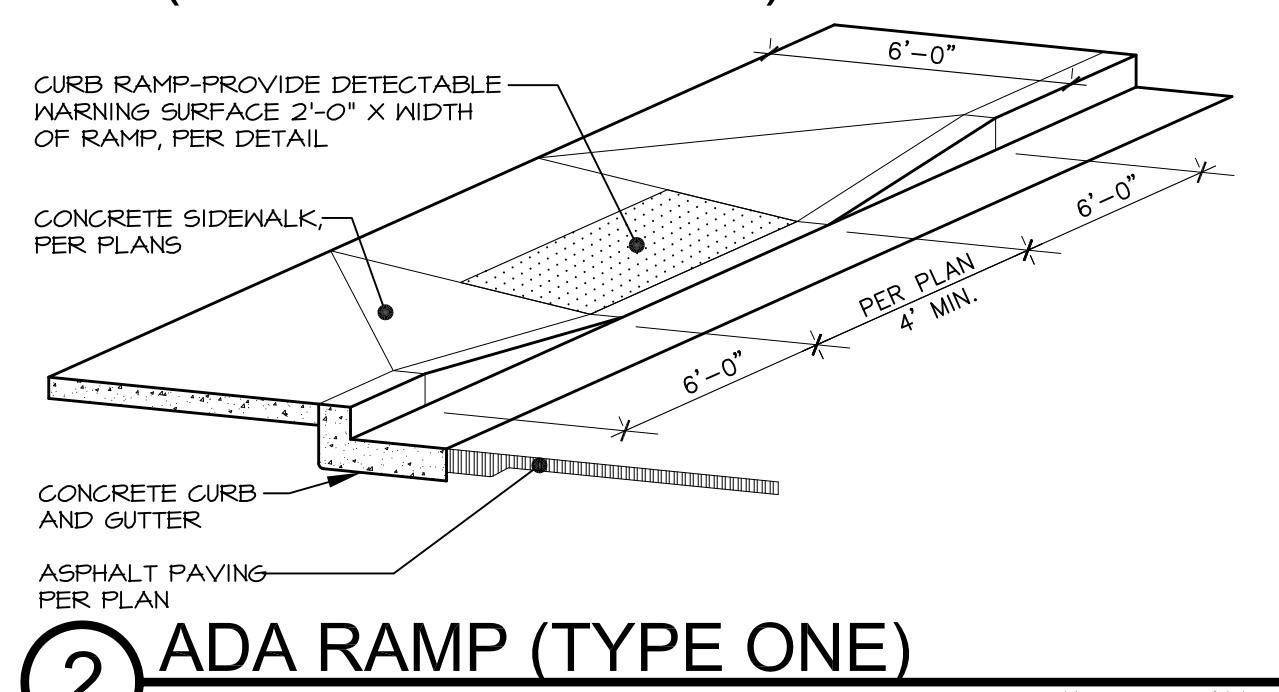
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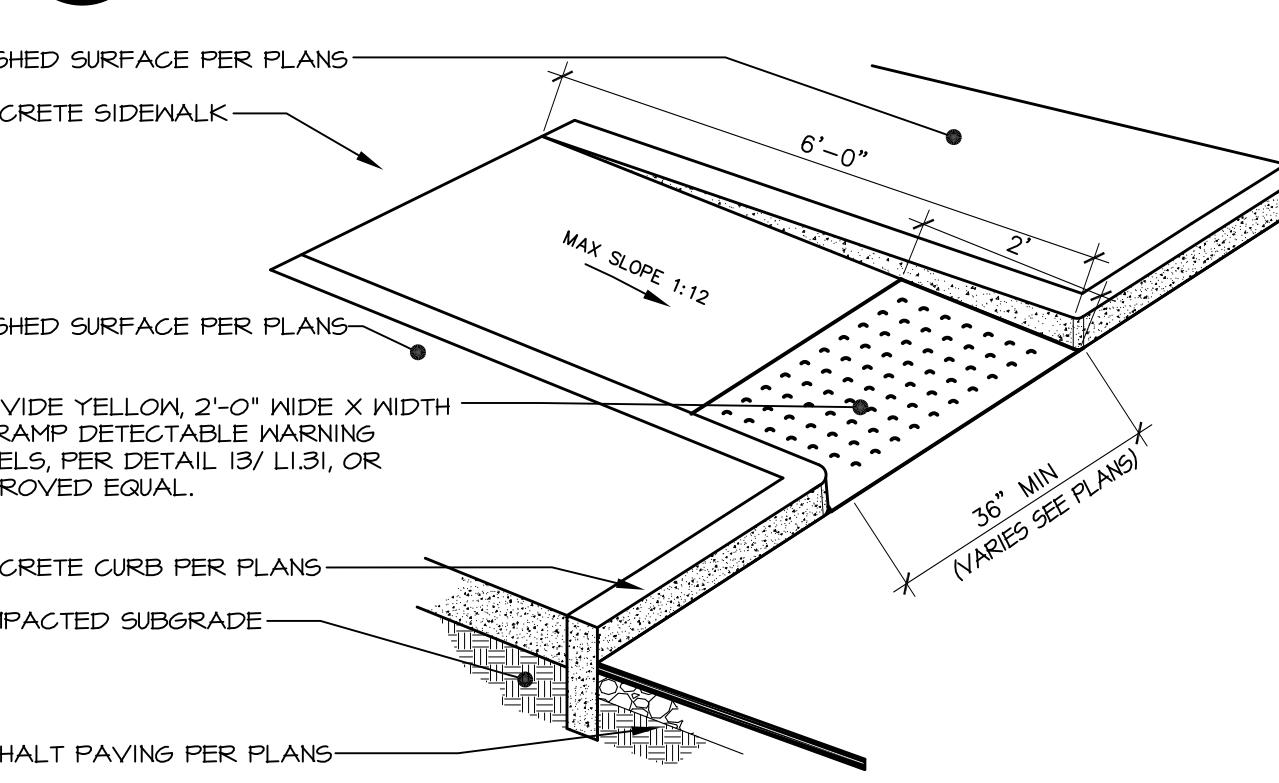


NOTE:
1. THICKEN CONCRETE SLAB UNDER TACTILE PANEL.
2. CAST-IN-PLACE DETECTABLE WARNING PANEL AS MANUFACTURED BY MASCO, OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

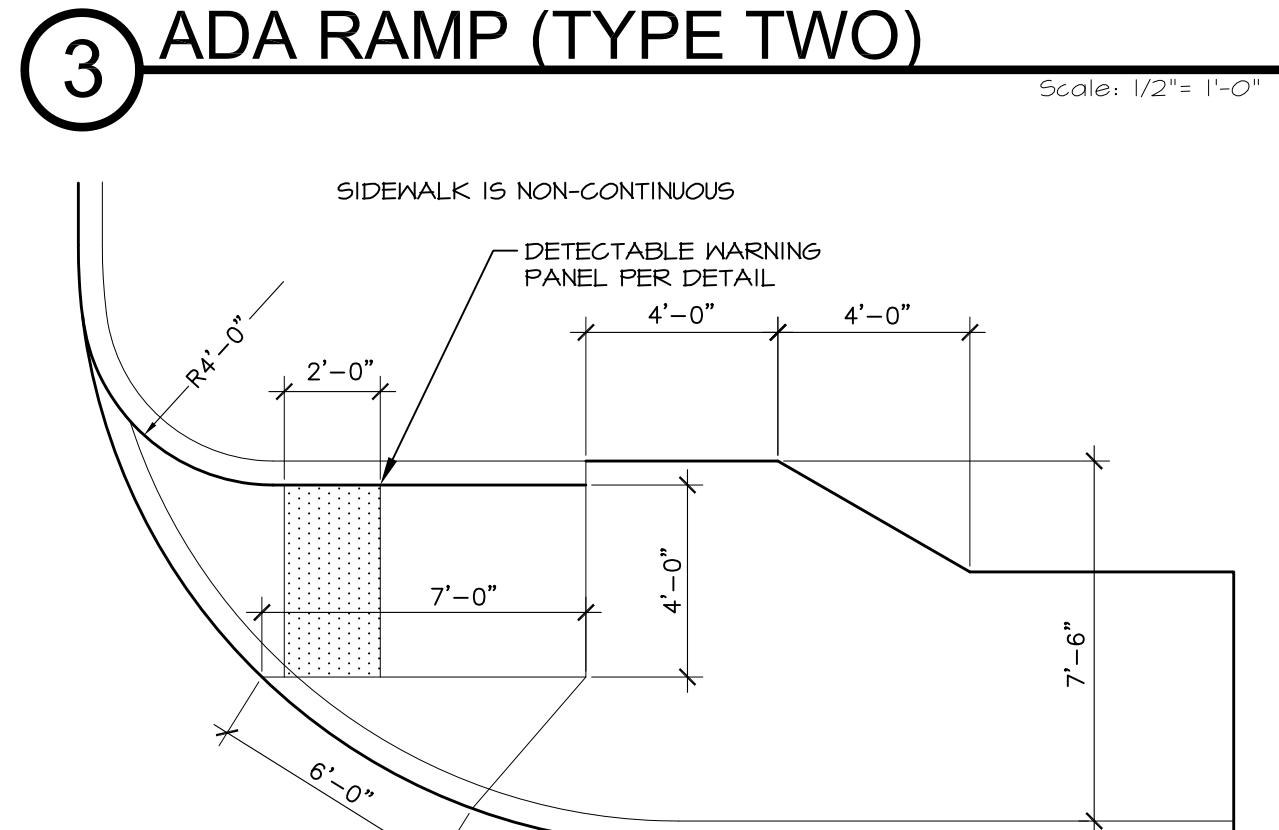
1 DETECTABLE WARNING PANEL (TRAFFIC YELLOW)



2 ADA RAMP (TYPE ONE)



3 ADA RAMP (TYPE TWO)



4 ADA RAMP (TYPE THREE)

NOTES:
1. THIS TYPE OF RAMP MAY BE USED FOR LARGE COMMERCIAL APPROACHES WHERE THE STANDARD CONCRETE APPROACH IS NOT REQUIRED. THESE MAY ALSO BE USED FOR ALLEY AND PRIVATE STREET APPROACHES WHERE:
A. THE SIDEWALK IS NOT REQUIRED TO CONTINUE AROUND THE RADIUS.
B. A SECOND RAMP IS NOT REQUIRED TO MOVE PEDESTRIANS ACROSS THE PRIMARY STREET.
3. Curb on radius must be 6" standard curb for shown dimensions.
4. Ramp throat must be 12 to 1 slope to conform to A.D.A. requirements. (2% MAXIMUM SLOPE)
5. This type of corner must have a single ramp turned parallel to the primary street. Corner radius is 15' as a minimum. The district may require larger radii sizes where larger vehicle turning is expected.
6. The ramp throat width must be 4'-0" measured perpendicular to the 7'-0" throat side. The ramp throat depth must be 7'-0" measured from the face of the curb to the back of the approach. 1'-0" wide of the road, the ramp must be parallel with the approach path. The approach and ramp must be parallel to the curb for example, parallel with the cross walk stripes, the stop bar, or the primary street curb.
7. The ramp wing must be 6'-0" measured at the curb face for 6" standard curb. The wing away from the road is eliminated and replaced with a wing substitute that is 6" high at the face of the standard curb and 6" high at the back of the ramp and poured monolithically with the ramp.
8. All concrete must be a minimum 4'-0" x 4'-0" landing behind them for pedestrians.
9. ALL CONCRETE ADJOINING THE RADIUS WITHIN AND AROUND THE RAMPS SHALL BE 5" THICK WITH 4" OF 3/4" AGGREGATE BASE.
10. SEE I.S.P.W.C. SD-112C TYPE 'C4' FOR ADDITIONAL INFORMATION.

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CITY OF BOISE UTILITY NOTES

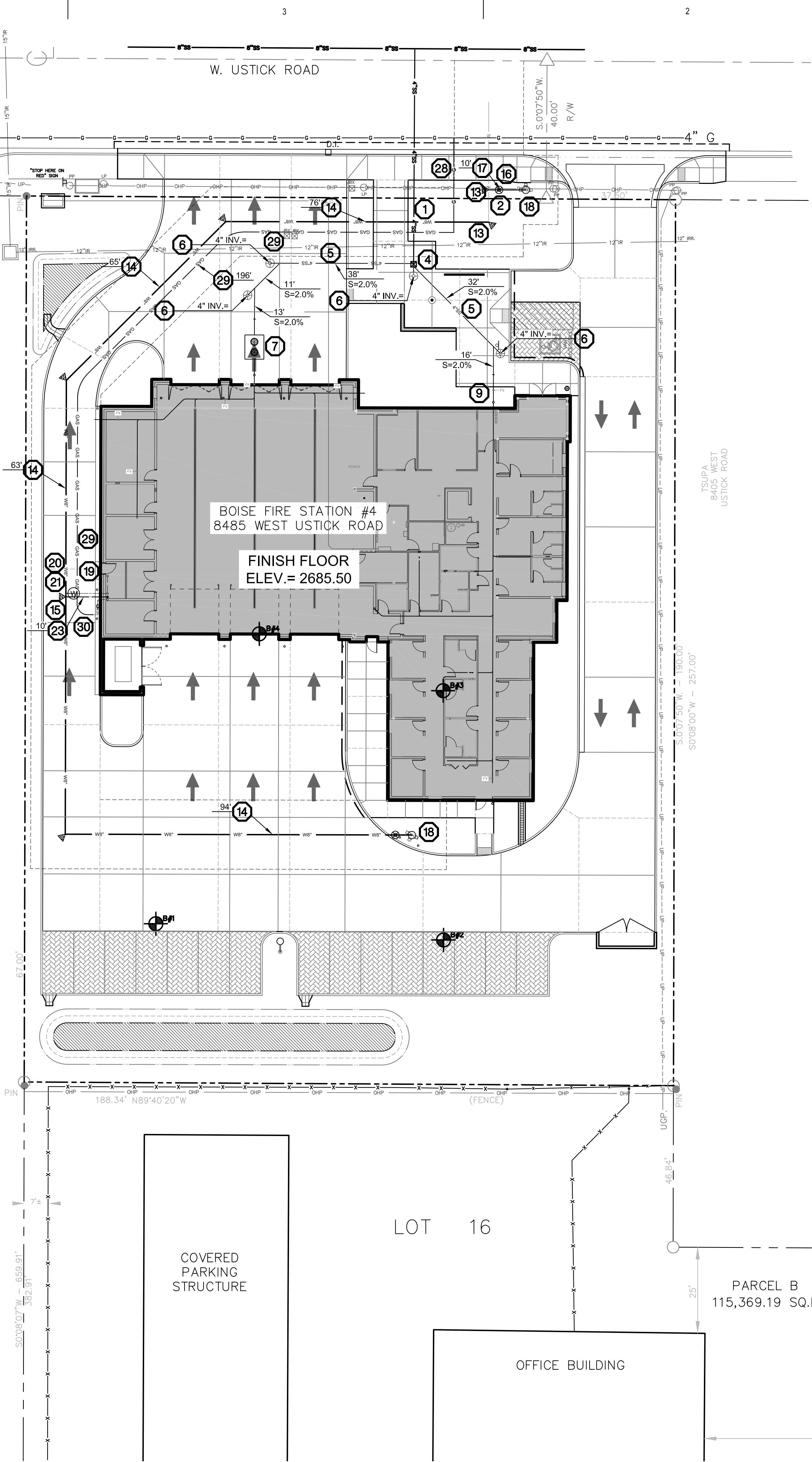
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST SEWER SPECIFICATIONS AND STANDARD DRAWINGS OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPC), BOISE CITY PUBLIC WORKS DEPARTMENT AND/OR THE ADA COUNTY HIGHWAY DISTRICT (AHD) MODIFICATIONS TO THE ISPC.
- THE CONTRACTOR SHALL CONSTRUCT THE 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.
- ALL 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 INSPECTION AN DAILY FROM 8:00 A.M. TO 4:00 P.M. 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 WILL MEET SPECIFIC DETAILS AND REQUIREMENTS OF THE FOLLOWING ISPC DRAWINGS FOR PUBLIC WORKS CONSTRUCTION:
 - A. STANDARD MANHOLE, TYPE A; DRAWING NO. SD-501.
 - B. STANDARD SHALLOW MANHOLE; DRAWING NO. SD-503.
 - C. MANHOLE COVER & FRAME; DRAWING NO. SD-507.
 - D. MANHOLE COLLAR DETAIL; DRAWING NO. SD-501-A.
 - E. STANDARD SEWER SERVICE LINE; DRAWING NO. SD-511-A.
 - F. SEWER SERVICE LINE MARKERS; DRAWING NO. SD-512.
- 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 SSMH ELEV. 85MMH AND SSMH. 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 UNDISTURBED UNTIL INSPECTION. ON 10' X 10' GRID SPACED ARE UNDISTURBED, 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 18 INCHES IN DIAMETER. THE WATER SERVICE LINE CROSSING SHALL BE PVC, PRESSURE PIPE CONFORMING TO ASME C-400 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 PLATES STAKING 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 OR ENGINEER AND SHALL BE FLAGGED AND GUARDED. THE LOCATION OF THE TBM'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 SPIGOT, POLYVINYL CHLORIDE (PVC), SDR35, ASTM D-3034 FOR 4-INCH THROUGH 15-INCH AND ASTM F671 FOR 18-INCH THROUGH 27-INCH AS SET FOR USE IN THE BOISE CITY PUBLIC WORKS DEPARTMENT. SEWER PIPE WITH LESS THAN 3 FEET OF COVER SHALL BE DUCTILE IRON CONFORMING TO ANSI A-21.51 OR ASME 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 A WATER-TIGHT SEAL.
- THE SEWER CONTRACTOR SHALL SUPPLY ALL LID ASSEMBLIES AND THE REQUIRED NUMBER OF RING AND GATE RINGS. THE SEWER CONTRACTOR SHALL FIELD VERIFY THE ELEVATION AND TOP OF THE MANHOLE CONE TO ENSURE 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-508. 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 LATEST EDITION OF THE "CONSTRUCTION QUALITY ASSURANCE MANUAL". CONSTRUCTION TESTS ARE TO BE CONDUCTED IN THE PIPE 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 BACKFILL. IF THE TESTS DO NOT MEET THE REQUIREMENTS, THE CONTRACTOR SHALL PAY THE COST OF THE FIRST TEST. 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. FOR THE PAVING AND BUILDING LINE, THE TESTS SHALL BE CONDUCTED IN THE PIPE 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 CONTRACTOR SHALL LEAVE THE ELEVATION 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, ALL UTILITY ARE IN AND PRIOR TO PAVING, AN AIR TEST SHALL BE CONDUCTED. THE CONTRACTOR SHALL CONTACT THE CITY OF BOISE, MINIMUM OF 24 HOURS PRIOR TO TESTING. ALL MANHOLES SHALL BE TESTED IN ACCORDANCE WITH THE ISPC AND BOISE CITY'S MODIFICATIONS.

GENERAL NOTES:

- TRENCHING SHALL COMPLY WITH DIVISION 300 OF THE ISPC.
- POLYETHYLENE (PE) PRESSURE PIPE SHALL BE PRESSURE CLASS 200 PSI WITH DRT MEETING ANSI/ASME C201.
- WATER SYSTEM CONSTRUCTION SHALL COMPLY WITH DIVISION 400 OF THE ISPC.
- 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:
 1. SEWER SERVICE TAP/SADDLE MANUFACTURER
 2. SEWER SERVICE PIPE MANUFACTURER
 3. TRENCH PATCH MATERIAL
 4. TRENCH PATCH 3/4" CRUSHED AGGREGATE GRADATION
 5. VISUAL OR VIDEO INSPECTION REPORTS OF EXISTING SEWER MAIN.
 6. COMPACTION TEST RESULTS FOR ROADWAY PATCH.
- ELEVATIONS SPECIFIED IN POTABLE WATER CROSSING TABLE ARE GUIDANCE FOR THE CONTRACTOR TO MEET SEPARATION DISTANCE. THE CONTRACTOR CAN SUBMIT A MORE COST-EFFECTIVE MEANS AND METHODS 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 ISPC SD-403.

1 UTILITY PLAN

SCALE: 1" = 20'-0"



LEGEND

—	—	CENTERLINE
—	—	PROPERTY LINE
S—	S—	EXISTING SANITARY SEWER MAIN
W—	W—	EXISTING DOMESTIC WATER MAIN
GAS	GAS	EXISTING GAS LINE
UP	UP	EXISTING UNDERGROUND POWER LINE
4"SS	4"SS	PROPOSED 4" SANITARY SEWER SERVICE LINE
6"SS	6"SS	PROPOSED 6" SANITARY SEWER SERVICE LINE
W12"	W12"	PROPOSED WATER MAIN
WP	WP	PROPOSED FIRE HYDRANT LATERAL
WP	WP	PROPOSED FIRE SERVICE LINE
W2"	W2"	PROPOSED DOMESTIC WATER SERVICE LINE
GAS	GAS	PROPOSED DOMESTIC GAS SERVICE LINE
UP	UP	PROPOSED DOMESTIC POWER SERVICE LINE
(W)	(W)	PROPOSED SANITARY SEWER SERVICE CLEAN OUT
W	W	PROPOSED SANITARY SEWER GREASE INTERCEPTOR, SEE MECHANICAL PLANS
WP	WP	PROPOSED FIRE HYDRANT
WP	WP	PROPOSED THRUST BLOCK
WP	WP	PROPOSED WATER VALVE

KEYNOTES:

- RETAIN AND PROTECT EXISTING 4" SANITARY SEWER SERVICE.
- RETAIN AND PROTECT EXISTING WATER MAIN.
- EXCAVATION LIMITS FOR UTILITIES TRENCH, REPAIR AND REPLACE ALL DISTURBED AREAS TO PRE CONSTRUCTION CONDITIONS.
- CONNECT TO EXISTING 4" SANITARY SEWER SERVICE. COORDINATE CONNECTION WITH BOISE CITY PUBLIC WORKS DEPARTMENT. FIELD VERIFY INVERT PRIOR TO CONSTRUCTION. INSTALL CLEANOUT TO GRADE PER DETAIL 3 ON SHEET CU 145. (1) 45° BEND
- INSTALL 4" SANITARY SEWER SERVICE PER ISPC SD-511 AND BOISE CITY PUBLIC WORKS DEPARTMENT. SEWER SERVICE MUST BE INSTALLED WITH A MINIMUM OF 2% SLOPE. SEE DETAIL 2 ON SHEET CU 145.
- INSTALL CLEANOUT TO GRADE.
- (1) 90° BEND
- INSTALL 1500 GALLON GREASE INTERCEPTOR BY AMCOR OR APPROVED EQUAL. SEE MECHANICAL PLAN FOR DETAILS.
- INSTALL SANITARY SEWER JUNCTION CLEANOUT TO GRADE. SEE DETAIL 8 ON SHEET CU 145.
- INSTALL SANITARY SEWER SERVICE CONNECTION TO BUILDING. COORDINATE WITH PLUMBING CONTRACTOR REGARDING LOCATION AND INVERT PRIOR TO CONSTRUCTION.
- INSTALL SANITARY SEWER JUNCTION AND CLEANOUT TO GRADE (2) 90° BENDS
- INSTALL CLEANOUT TO GRADE
- (1) 45° BEND
- NON POTABLE AND POTABLE LINE CROSSING. SEE DETAIL 4 ON SHEET CU 145.
- WATER MAIN CONNECTION BY CAPITOL WATER. (1) 8" GATE VALVE (MJKM).
- 8" C900 WATER MAIN PIPE BY CAPITOL WATER.
- INSTALL FIRE SERVICE CONNECTION TO BUILDING. COORDINATE WITH FIRE SPRINKLER CONTRACTOR. CONNECTION REQUIRES EXTERIOR WALL MOUNTED POST INDICATOR VALVE. SEE MECHANICAL PLAN DETAILS.
- INSTALL HYDRANT LATERAL CONNECTION.
 - (1) 8"x8"x6" TEE (MJKMFLG)
 - (1) 6" GATE VALVE (FLGXJM)
- INSTALL 6" C900 HYDRANT LATERAL.
- INSTALL FIRE HYDRANT ASSEMBLY PER ISPC SD-404 WITH THRUST BLOCK.
- INSTALL 2" POLYETHYLENE DOMESTIC WATER SERVICE LINE TAP CONNECTION.
- INSTALL 2" POLYETHYLENE DOMESTIC WATER SERVICE LINE.
- 1.5" DOMESTIC WATER METER INSTALLED BY CAPITOL WATER. SEE DETAIL 1 ON SHEET CU 145.
- INSTALL FIRE SERVICE LINE CONNECTION.
 - (1) 8"x8"x6" TEE (MJKMFLG)
- INSTALL 6" C900 FIRE SERVICE LINE PER DETAIL 2 ON SHEET CU 145.
- INSTALL 2" POLYETHYLENE PIPE JUNCTION TEE WITH FORD COUPLING OR APPROVED EQUAL.
- INSTALL 2" DOMESTIC WATER SERVICE CONNECTION TO BUILDING. COORDINATE WITH PLUMBING CONTRACTOR.
- INSTALL 6" FIRE SERVICE JUNCTION.
 - (1) 6" TEE (MJKMFLG)
 - (1) 6" GATE VALVE (FLGXJM)
 - (1) THRUST BLOCK
- 6" FIRE SERVICE BEND
 - (1) 90° BEND
 - (1) THRUST BLOCK
- GAS SERVICE CONNECTION TO MAIN. COORDINATE WITH INTERMOUNTAIN GAS CO.
- GAS SERVICE LINE. COORDINATE WITH INTERMOUNTAIN GAS CO.
- GAS SERVICE CONNECTION TO BUILDING. COORDINATE WITH INTERMOUNTAIN GAS CO. AND MECHANICAL.
- (30) GAS SERVICE CONNECTION TO BUILDING. COORDINATE WITH INTERMOUNTAIN GAS CO. AND MECHANICAL.



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Call 2 business days
in advance before you
excavate for the
location 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 | 8211 Roosevelt Way NE
Seattle, WA 98115 | (208) 522-3820

STAMP:
NOT FOR CONSTRUCTION
DANIEL A. THOMPSON
PROFESSIONAL REGISTERED ENGINEER
DATE OF SIGNATURE



City of Boise Fire Station 4
8485 W. Ustick Rd. Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE	Project Status
PROJECT NUMBER	15043
PROJECT MANAGER	R. TeBeau
PROJECT ARCHITECT	R. TeBeau
DESIGN	DT
DRAWN BY	JB, LP, JR, BS

SHEET NAME:

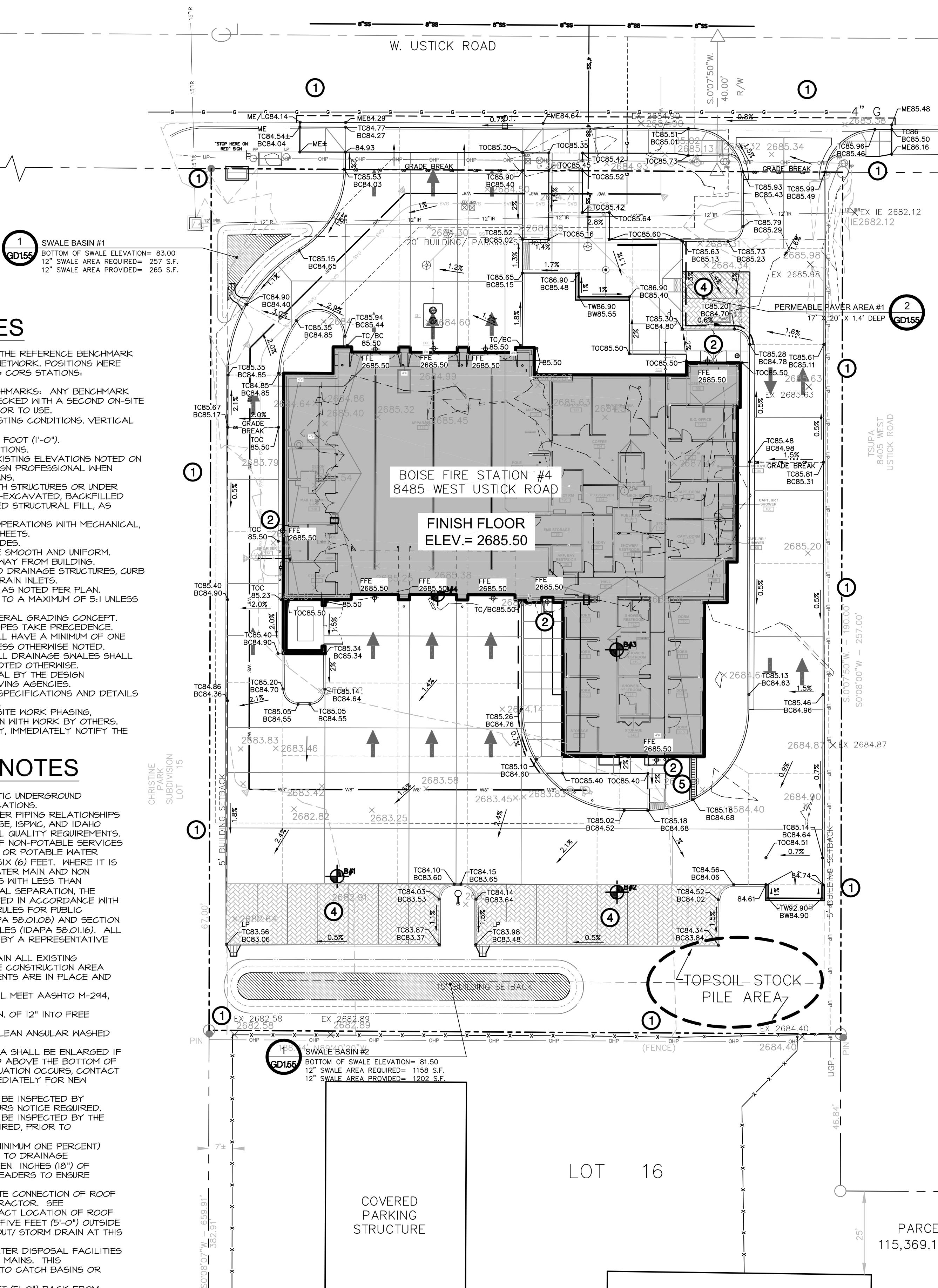
UTILITIES PLAN
C1.40
SHEET NUMBER:
1.29.16

CONSTRUCTION NOTES

- 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.
- ALL CONTRACTORS WORKING WITHIN THE PROJECT BOUNDARIES ARE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE SAFETY LAWS OF ANY JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRICADES, SAFETY DEVICES, AND CONTROL OF TRAFFIC WITHIN AND AROUND THE CONSTRUCTION AREA.
- ALL WORK AND MATERIALS SHALL CONFORM TO THE 2010 EDITION OF THE I.P.W.C., AND THE APPROPRIATE LOCAL AGENCIES.
- THE CONTRACTOR SHALL OBTAIN THE APPROPRIATE PERMITS FROM ALL GOVERNING LOCAL AGENCIES PRIOR TO COMMENCING CONSTRUCTION.
- ALL CONSTRUCTION IN THE RIGHT-OF-WAY SHALL CONFORM TO THE 2010 EDITION OF THE I.P.W.C. AND THE ADA COUNTY HIGHWAY DISTRICT'S SUPPLEMENTAL SPECIFICATIONS, NO EXCEPTION TO SPECIFICATIONS OR THE I.P.W.C. WILL BE ALLOWED UNLESS SPECIFICALLY AND PREVIOUSLY APPROVED IN WRITING BY THE ENFORCING AGENCY.
- ALL CONTRACTORS MOVING EQUIPMENT, FUEL AND LIGHT-OF-WAY ARE REQUIRED TO OBTAIN A RIGHT-OF-WAY CONSTRUCTION PERMIT FROM A.C.H.D. AT LEAST 24 HOURS PRIOR TO ANY CONSTRUCTION.
- ANY CHANGE FROM THE PLANS SHALL BE APPROVED BY THE DESIGN PROFESSIONAL.
- THE CONTRACTOR SHALL CONTACT DIGLINE 48 HOURS PRIOR TO ANY EXCAVATION - 1-800-342-5656.
- 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 AND ALL UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND IMPROVEMENTS, AND DAMAGE TO EXISTING FACILITIES OR IMPROVEMENTS RESULTING FROM THE CONTRACTOR'S OPERATIONS, SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- IF THE OWNER/CONTRACTOR ELECTS TO IMPORT FILL MATERIALS, WASTE SOIL SHALL BE HAULED TO AN OFFSITE DISPOSAL SITE FURNISHED BY THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION STAKING, STAKING SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR WITHIN THE STATE OF IDAHO.
- CONTRACTOR SHALL PROVIDE SUBMITTALS FOR THE FOLLOWING PRIOR TO CONSTRUCTION:
 - 6" MINUS UNCRUSHED AGGREGATE BASE COURSE FOR PAVEMENT SECTION.
 - 3/4" MINUS UNCRUSHED AGGREGATE BASE COURSE FOR PAVEMENT SECTION.
 - ASphalt PAVEMENT MIX DESIGN FOR PAVEMENT SECTION.
 - CONCRETE PAVEMENT MIX DESIGN FOR PAVEMENT SECTION.
 - GATCH BASIN INLETS
 - F. STORM DRAIN PIPING
 - FILTER FABRIC
 - H. 2" WASHED DRN ROCK AND ASTM C-33 FILTER SAND USED IN SEEPAGE BED
- I. SUBGRADE COMPACTION TEST PROCEDURE
- J. BASE COMPACTION TEST PROCEDURE
- PROVIDE SUBGRADE AND BASE COURSE COMPACTION TEST RESULTS (DURING CONSTRUCTION TO BRECKON LAND DESIGN). COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH ASTM D155, 155.
- DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL COORDINATE AND ACCOMMODATE OTHER CONTRACTOR'S OPERATIONS OF THE OWNER, AND LOCAL GOVERNMENT.
- ALL MATERIAL 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.
- 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 PAVERS.
 WORK DONE WITHOUT SUCH APPROVAL DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PERFORMING THE WORK IN AN ACCEPTABLE MANNER.
- ONLY PLANS 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.
- THE CONTRACTOR SHALL KEEP ON 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.
- THE DESIGN PROFESSIONAL SHALL SUBMIT RECORD DRAWINGS TO THE PUBLIC WORKS DEPARTMENT AS PRESCRIBED BEFORE FINAL APPROVAL IS GIVEN TO THE PROJECT.

TOPSOIL NOTES

- TOPSOIL REQUIREMENTS: ASTM D 5200, 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.
- TOPSOIL SOURCE: STRIP EXISTING TOPSOIL FROM ALL AREAS OF THE SITE TO BE DISTURBED. TOPSOIL SHALL BE FERTILE, FRIABLE, NATURAL LOAM, SURFACE SOIL, REASONABLY FREE OF SUBSOIL, CLAY, LUMPS, BRUSH, WEEDS AND OTHER DEBRIS, AND FREE OF ROOTS, STUMPS, ORGANIC MATTER LARGER THAN 2 INCHES IN ANY DIMENSION, AND OTHER EXTRANEous OR TOXIC MATTER HARMFUL TO PLANT GROWTH. TOPSOIL SHALL BE SCREENED TO ACHIEVE THIS REQUIREMENT.
- REPRESENTATIVE SAMPLES SHALL BE TESTED FOR ACIDITY, FERTILITY AND GENERAL TEXTURE BY A RECOGNIZED COMMERCIAL OR GOVERNMENT AGENCY AND COPIES OF THE TESTING AGENCIES FINDINGS AND RECOMMENDATIONS SHALL BE PROVIDED TO THE ARCHITECT FOR REVIEW BY THE CONTRACTOR. ALL TOPSOIL SHALL BE AMENDED TO ACHIEVE SELECTED 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.
- PLACE TOPSOIL IN AREAS WHERE REQUIRED TO OBTAIN THICKNESS AS SCHEDULED. PLACE TOPSOIL DURING DRY WEATHER. PROVIDE ADDITIONAL IMPORTED TOPSOIL REQUIRED TO BRING SURFACE TO PROPOSED FINISH GRADE AS REQUIRED.
- COMPACTED TOPSOIL THICKNESS AT THE FOLLOWING AREAS:
 - A. LAWN AREAS: 9 INCHES MINIMUM OR AS NECESSARY TO ACHIEVE EVEN GRADING WITH SURROUNDING LAWN AREAS.
 - B. PLANTER BEDS: 18 INCHES MINIMUM.
- FINE GROUT SOIL TO BE PLACED IN SURFACE WITH LOOSE UNIFORM FINE TEXTURE. REMOVE RIDGES AND FILL DEPRESSIONS, AS REQUIRED TO MEET FINISH GRADES. FINISH GRADE OF TOPSOIL SHALL BE 2" BELOW FINISH GRADE OF PAVEMENTS AREAS FOR SOIL AND 1" FOR SEED.
- TOPSOIL STOCKPILE LOCATIONS TO BE COVERED COORDINATE WITH EROSION AND SEDIMENT CONTROL PLAN.
- ALL GRAVEL, SUBGRADE AND OTHER IMPORTED FILL MATERIALS OTHER THAN TOPSOIL SHALL ONLY BE STOCKPILED IN PROPOSED IMPERVIOUS AREAS. NO GRAVEL OR ROCK MATERIALS SHALL BE STOCKPILED 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.



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	GRADE BREAK LINE
TC 1132.76±	SPOT ELEVATION
BC 1132.26	FLOW DIRECTION AND GRADIENT
2.55%	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/UP OF 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
O CO	CLEANOUT LOCATION
O RWL	NEW RAinWATER LEADER
□ SB	SPLASH BLOCK AS SPECIFIED
▲ DO	CURB CUT/DRAInAGE OUTLET
■	PIPE OUTFALL AS DETAILED
	UNDER WALK DRAIN AS DETAILED
	TRENCH DRAIN, SEE DETAIL.
	BENCHMARK
	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 1.0% FOR A MINIMUM DISTANCE OF 5 FEET FROM BUILDING TO COMPLY WITH ADA REGULATIONS.
- PROVIDE 6" DEEP PITCH 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.

DISCLAIMER:

THESE SITE DISTURBANCE PLANS HAVE BEEN PREPARED FOR THE CONTRACTOR/OWNER FOR SITE DISTURBANCE ORDERS. THE REQUIRED REGULATORY RULES 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 WITH BRECKON LAND DESIGN, INC. 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.

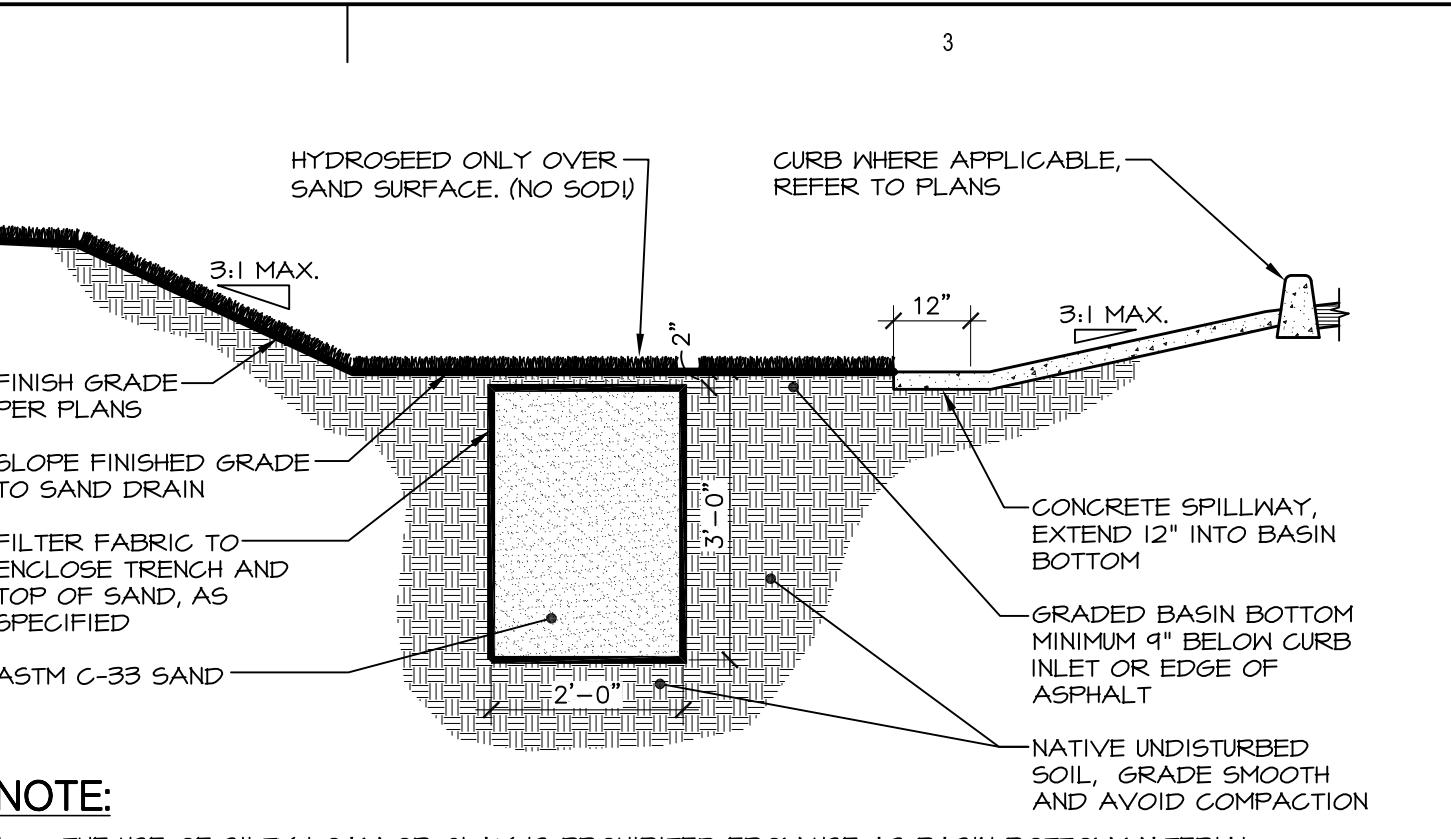
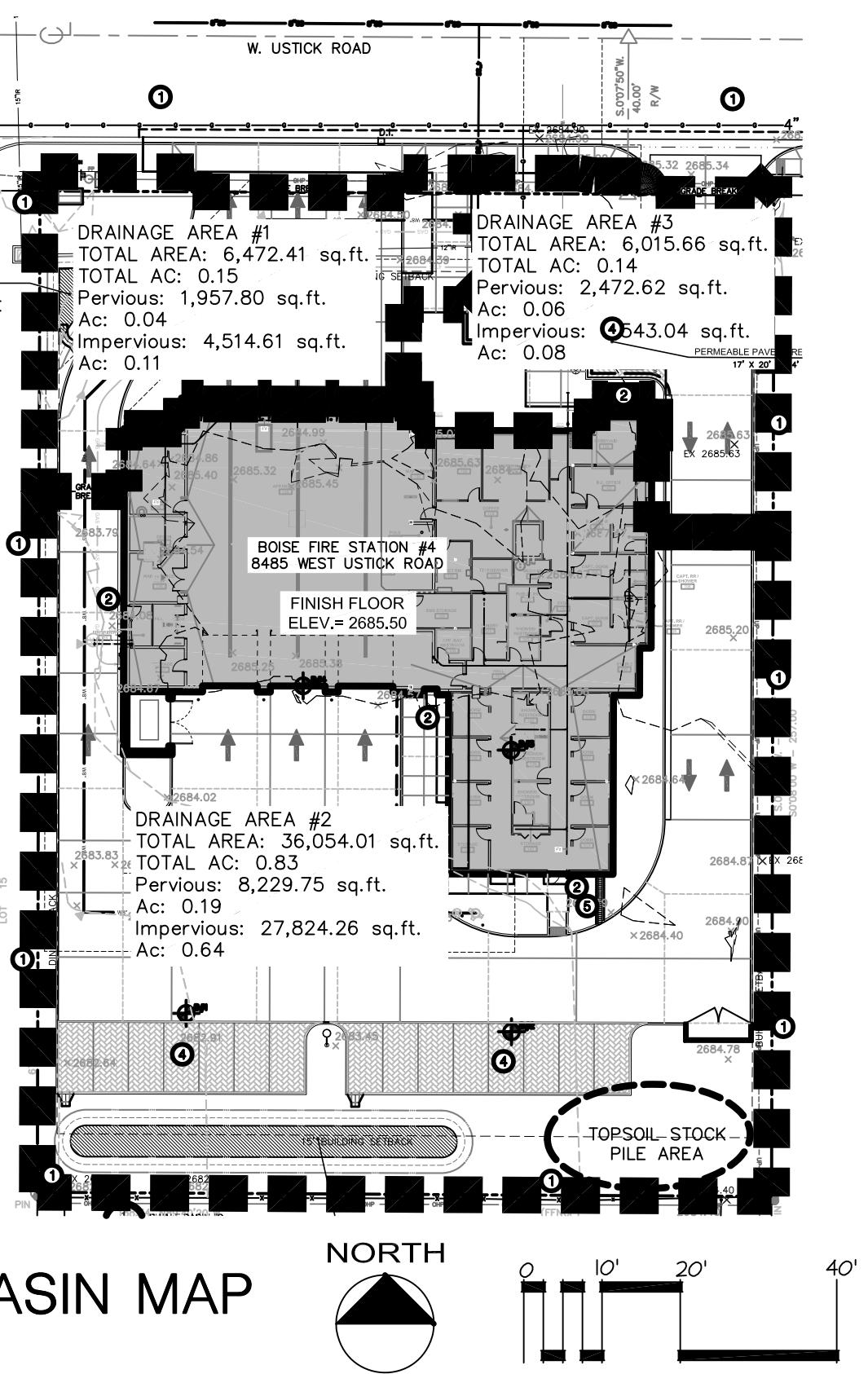
CAUTION NOTICE

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 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.

MARK	DATE	DESCRIPTION

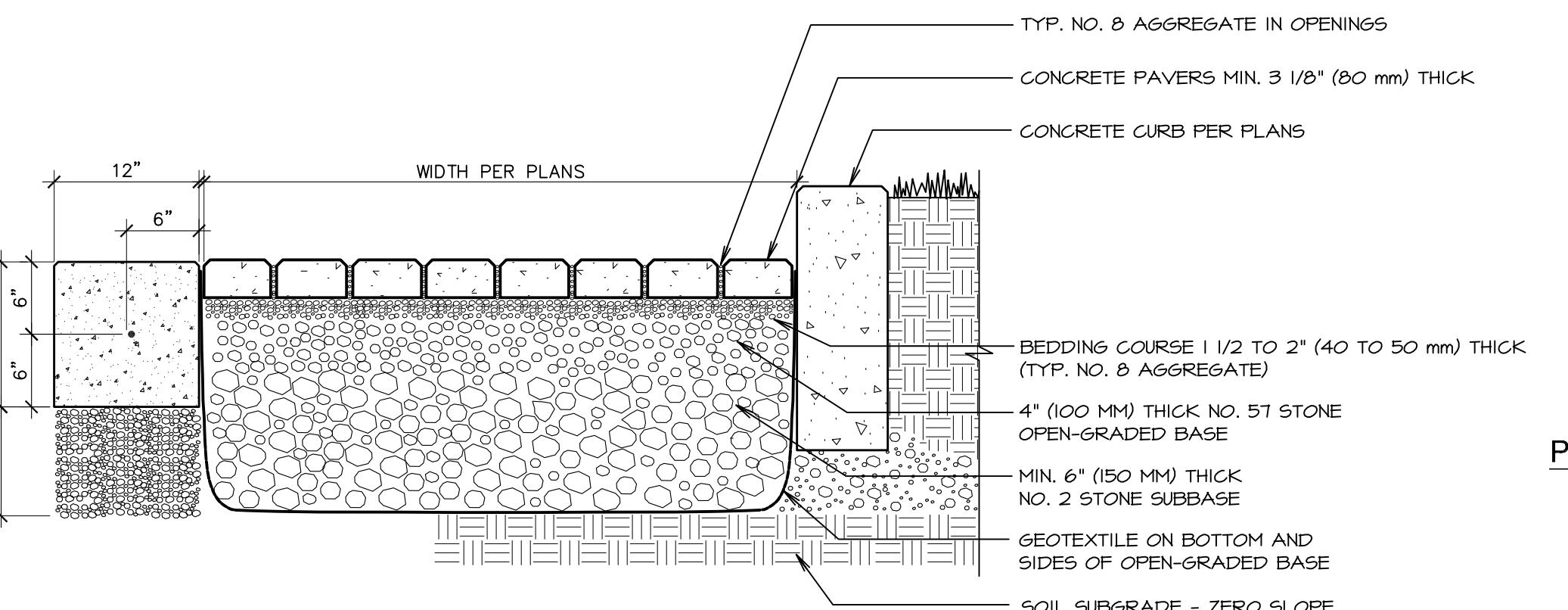
PROJECT PHASE	Project Status
PROJECT NUMBER	15043
PROJECT MANAGER	R. TeBeau
PROJECT ARCHITECT	R. TeBeau
DESIGN	JB
DRAWN BY	JB, LP, JR, BS

GRADING AND DRAINAGE PLAN



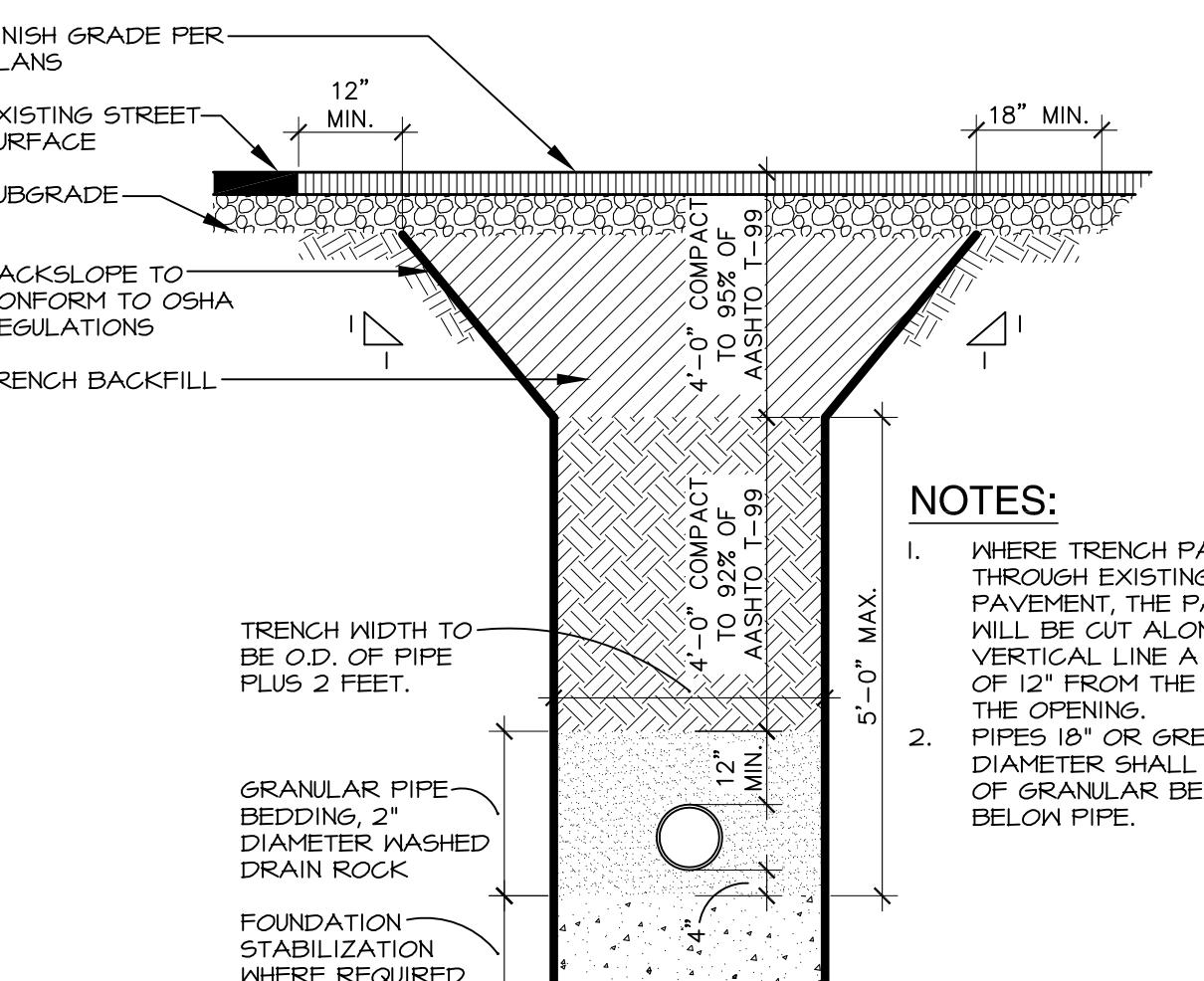
① DRAINAGE SWALE

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



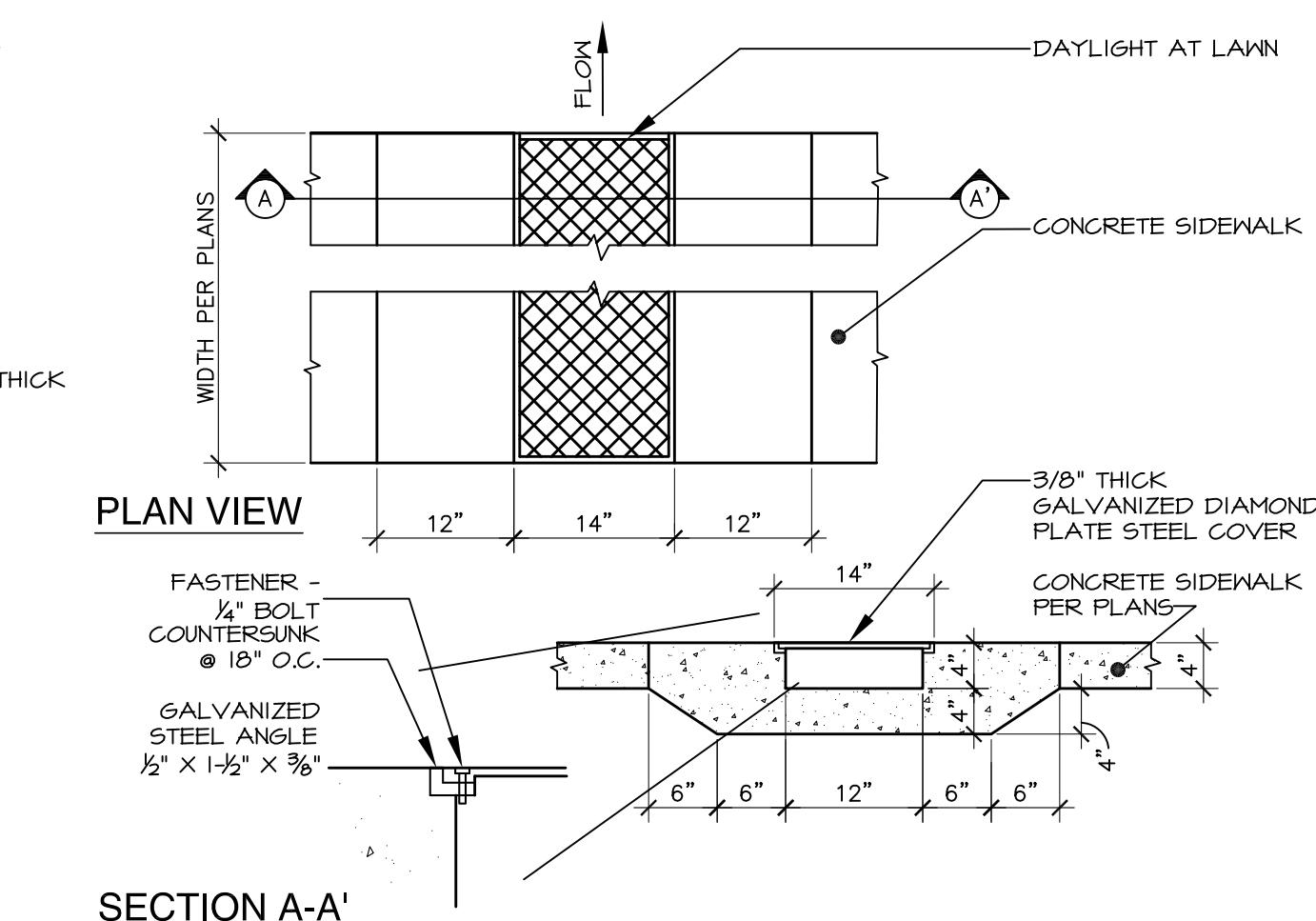
② PERMEABLE PAVEMENT WITH FULL EXFILTRATION

NOT TO SCALE



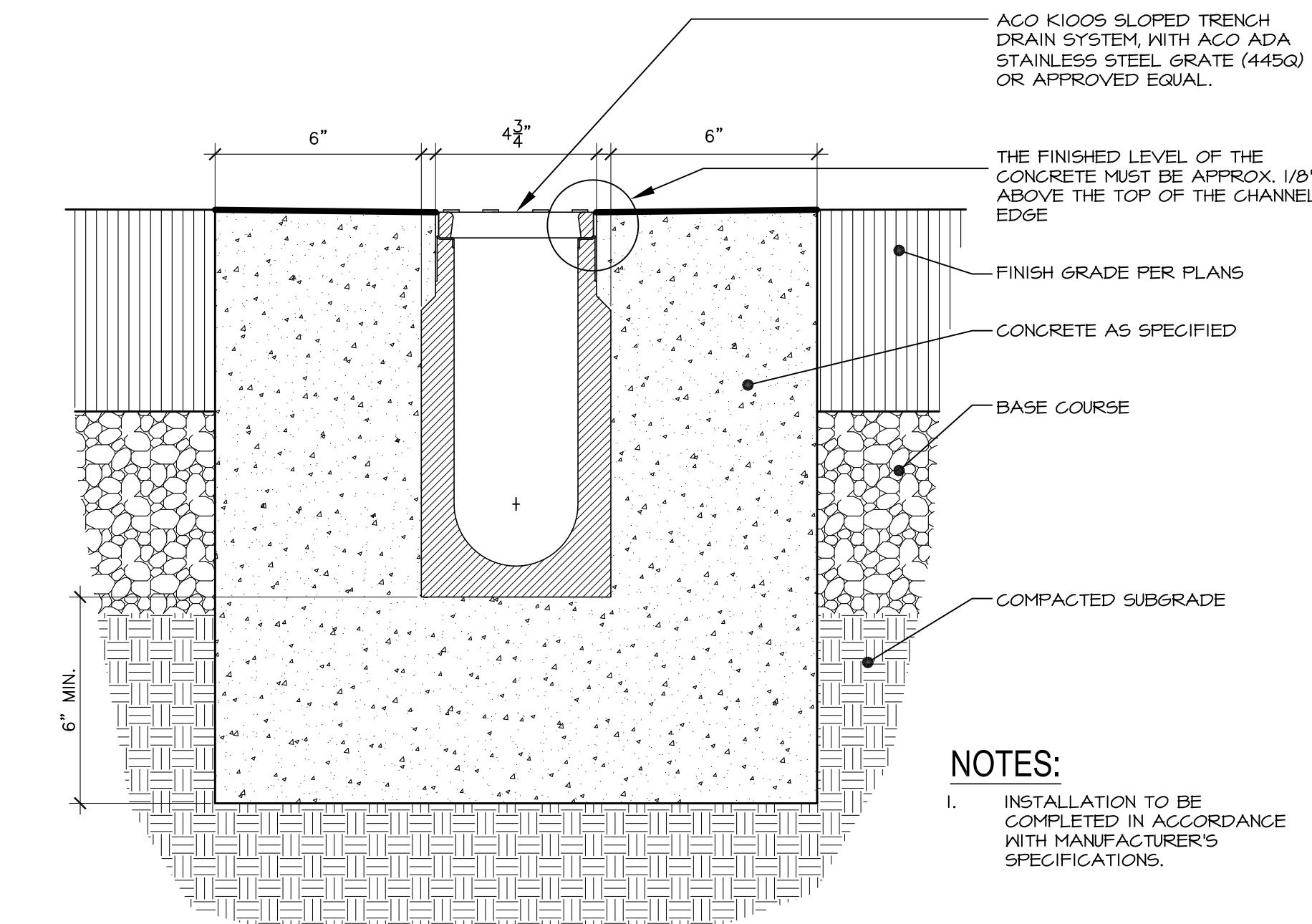
③ TRENCH SECTION

NOT TO SCALE



④ UNDERWALK DRAIN

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



⑤ TRENCH DRAIN EMBEDMENT

Scale: 3" = 1'-0"

5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

1

811
Know where below. Call before digging.
Call 2 business days in advance before you dig. Do not excavate for the first 48 hours.
Excavate for the last 48 hours.
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
STAMP:

NOT FOR CONSTRUCTION
STATE OF IDAHO
LANDSCAPE ARCHITECTURE

CONSULTANT:

BRECKON land design
Landscape Architecture • Erosion & Sediment Control • Geographic Info Systems • Graphic Communication • Water Management • Irrigation Design • Land Planning
www.breckonlanddesign.com
Phone: 208-876-5153
181 East 50th Street
Garden City, Idaho 83744

PROJECT INFORMATION:
BOISE CITY OF TREES
BOISE FIRE DEDICATION
City of Boise Fire Station 4
8485 W. Ustick Rd. Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

Project Status

Project Phase	Project Status
Project Number	15043
Project Manager	R. TeBeau
Project Architect	R. TeBeau
Design	JB
Drawn By	JB, LP, JR, BS

SHEET NAME:

GRADING AND DRAINAGE DETAILS

C1.55

SHEET NUMBER:

1.29.16

ARCHITECT: _____

811.
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member utilities.

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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

PROJECT INFORMATION:
BOISE CITY OF TREES
BOISE FIRE DEDICATION
City of Boise Fire Station 4
8485 W. Ustick Rd. Boise, ID 83704
REVISIONS:
MARK DATE DESCRIPTION

PROJECT PHASE	Project Status
PROJECT NUMBER	15043
PROJECT MANAGER	R. TeBeau
PROJECT ARCHITECT	R. TeBeau
DESIGN	JB
DRAWN BY	JB, LP, JR, BS
SHEET NAME:	EROSION AND SEDIMENT CONTROL DETAILS
SHEET NUMBER:	ESC1.65
1.29.16	

1 SILT FENCE Scale: 1" = 1'-0"

2 MULCH NOT TO SCALE

3 DRAIN INLET FILTER (TYPE 2) Scale: 3/4" = 1'-0"

4 DRAIN INLET FILTER (TYPE 1) Scale: 3/4" = 1'-0"

5 CONCRETE WASHOUT AREA NOT TO SCALE

6 STABILIZED CONSTRUCTION ENTRY Scale: 1/8" = 1'-0"

7 STRAW WATTERS NOT TO SCALE

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 83714

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 hydromulching procedures following topsoil distribution and fine grading. The area to be vegetated 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 with attention to hold topsoil adequately. Topsoil should be spread and lightly compacted utilizing a small cleared 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.

Seeding: 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.

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

Fertilizer-Fiber Mulch Material: Kiwi Fertile Fiber 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.

Hydroseeding: Mix specified seed and organic soil amendment in water per manufacturer's recommendations. Apply seed slurry evenly in two intersection directions. Do not hydroseed areas in excess of that which can be mulched on same 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 fertile-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 wintering down 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 seed germinates and is established.

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 lower 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 earthwork plan. Topsoil should be spread and lightly compacted utilizing a small cleared 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.

Erosion Control: Once topsoil has been distributed and graded, new sod, landscape planting and mulch shall be installed initially to reduce the possible amount of erosion.

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 CONSTRUCTION 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 TO BE REMEDIED. THE EXISTING VEGETATION CONSISTS PRIMARILY OF TREES AND TURF AND LANDSCAPE 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 LOWER 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.

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LANDSCAPE NOTES:

- CONTRACTOR SHALL REPORT TO LANDSCAPE ARCHITECT ALL CONDITIONS WHICH IMPAIR AND/OR PREVENT THE PROPER EXECUTION OF THIS WORK, PRIOR TO BEGINNING WORK.
- NO SUBSTITUTIONS SHALL BE MADE WITHOUT THE LANDSCAPE ARCHITECT'S PRIOR WRITTEN APPROVAL.
- ALTERNATE MATERIALS OF SIMILAR SIZE AND CHARACTER MAY BE CONSIDERED IF SPECIFIED PLANT MATERIALS CAN NOT BE OBTAINED.
- COORDINATE ALL WORK WITH ALL OTHER SITE RELATED DEVELOPMENT DRAWINGS.
- COORDINATE WORK SCHEDULE AND OBSERVATIONS WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION START-UP.
- ALL PLANT MATERIAL SHALL BE INSTALLED AS PER DETAILS.
- ALL PLANT MATERIAL SHALL CONFORM TO THE AMERICAN NURSERYMAN STANDARDS FOR TYPE AND SIZE SHOWN. PLANTS WILL BE REJECTED IF NOT A SOUND AND HEALTHY CONDITION.
- IF THERE IS EVER A PLANT COUNT DISCREPANCY, PLANT SYMBOLS SHALL OVERRIDE SCHEDULE QUANTITIES AND CALL OUT SYMBOL NUMBERS.
- ALL PLANTING BEDS SHALL BE COVERED WITH A MINIMUM OF 3" DEPTH OF CRUSHED SANDSTONE MULCH. APPLY A PRE-EMERGENT HERBICIDE PRIOR TO MULCH APPLICATION. SUBMIT SAMPLE FOR APPROVAL.
- ALL PLANT MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF ONE YEARS BEGINNING AT THE DATE OF ACCEPTANCE BY THE OWNER. REPLACE ALL PLANT MATERIAL FOUND DEAD OR IN A HEALTHY CONDITION IMMEDIATELY WITH THE SAME SIZE AND SPECIES AT NO COST TO THE OWNER.
- AMEND EXISTING APPROVED TOPSOIL AT A RATIO OF THREE CUBIC YARDS OF APPROVED COMPOST PER 1000 SQUARE FEET. ROTOTILL ORGANIC MATTER A MINIMUM OF 6 INCHES INTO TOPSOIL.
- FERTILIZE ALL TREES AND SHRUBS WITH 'AGRFORM' PLANTING TABLETS. QUANTITY PER MANUFACTURER'S RECOMMENDATIONS.
- ALL PLANTING BEDS SHALL HAVE A MINIMUM 18" DEPTH OF TOPSOIL. LAWN AREAS SHALL HAVE A MINIMUM 12" DEPTH OF TOPSOIL. SPECIFY COMPACT, AND FINE GRADE TOPSOIL TO A SMOOTH AND UNIFORM GRADE 3" BELOW ADJACENT SURFACES OF PLANTER BED AREAS, 1-1/2" BELOW ADJACENT SURFACES OF TURF SOD AREAS, AND 1" BELOW ADJACENT SURFACES OF TURF SEED AREAS.
- REUSE EXISTING TOPSOIL STOCKPILED ON THE SITE. SUPPLEMENT WITH IMPORTED TOPSOIL WHEN QUANTITIES ARE INSUFFICIENT. VERIFY SUITABILITY AND CONDITION OF TOPSOIL AS A GROWING MEDIUM. PERFORM SOIL TEST/ ANALYSIS AND PROVIDE ADDITIONAL AMENDMENT AS DETERMINED BY SOIL TESTS. TOPSOIL SHALL BE A LOOSE, FRIABLE, NATURAL LOAM, CLEAN AND FREE OF TOXIC MATERIALS, NOXIOUS WEEDS, SEEDS, ROCKS, GRASS OR OTHER FOREIGN MATERIAL AND HAVE A PH OF 5.5 TO 7.0. IF ON SITE TOPSOIL DOES NOT MEET THESE MINIMUM STANDARDS, CONTRACTOR IS RESPONSIBLE TO EITHER:
 - PROVIDE APPROVED IMPORTED TOPSOIL,
 - IMPROVE ON-SITE TOPSOIL WITH METHODS APPROVED BY THE LANDSCAPE ARCHITECT.
- IF IMPORTED TOPSOIL FROM OFF-SITE SOURCES IS REQUIRED, ENSURE IT IS FERTILE, FRIABLE, NATURAL LOAM, SURFACE SOIL, REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH, NEEDS AND OTHER LITTER, AND FREE OF ROOTS, STUMPS, STONES LARGER THAN 2 INCHES IN ANY DIMENSION, AND OTHER EXTRANEous OR TOXIC MATTER HARMFUL TO PLANT GROWTH.
- OBTAin TOPSOIL FROM LOCAL SOURCES OR FROM AREAS HAVING SIMILAR SOIL CHARACTERISTICS TO THOSE FOUND ON THE PROJECT SITE. OBTAIN TOPSOIL ONLY FROM NATURALLY, WELL-DRAINED SITES WHERE TOPSOIL OCCURS AT A DEPTH OF NOT LESS THAN 4 INCHES.
- REPRESENTATIVE SAMPLES SHALL BE TESTED FOR ACIDITY, FERTILITY, TOXICITY, 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 OWNER'S REPRESENTATIVE BY THE CONTRACTOR. NO TOPSOIL SHALL BE DELIVERED IN A FROZEN OR MUDDY CONDITION. ACIDITY/ALKALINITY RANGE - PH. 5.5 TO 7.6.
- IMMEDIATELY CLEAN UP ANY DEBRIS OR OTHER DEBRIS THAT HAS BEEN CREATED FROM LANDSCAPE OPERATIONS AND DISPOSE OF IT OFF SITE.
- TREES SHALL NOT BE PLANTED WITHIN THE 10'-0" CLEAR ZONE OF ALL A.G.H.D. STORM DRAIN PIPE, STRUCTURES, OR FACILITIES. TREES SHALL NOT BE PLANTED WITHIN 5'-0" OF AN A.G.H.D. SIDEWALK.
- SEEPAGE BEDS AND OTHER STORM DRAINAGE FACILITIES MUST BE PROTECTED FROM ANY AND ALL CONTAMINATION DURING THE CONSTRUCTION AND INSTALLATION OF THE LANDSCAPE IRRIGATION SYSTEM.
- IN THE EVENT OF A DISCREPANCY, NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY.

TOPSOIL NOTES

- TOPSOIL REQUIREMENTS: ASTM D 5269. 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 MATERIAL HARMFUL TO PLANT GROWTH.
- TOPSOIL SOURCE: STRIP EXISTING TOPSOIL FROM ALL AREAS OF THE SITE TO BE DISTURBED. TOPSOIL SHALL BE FERTILE, FRIABLE, NATURAL LOAM, SURFACE SOIL, REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH, NEEDS AND OTHER LITTER, AND FREE OF ROOTS, STUMPS, ORGANIC MATTER LARGER THAN 2 INCHES IN ANY DIMENSION, AND OTHER EXTRANEous OR TOXIC MATTER HARMFUL TO PLANT GROWTH. TOPSOIL SHALL BE SCREED TO ACHIEVE THIS REQUIREMENT.
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- PLACE TOPSOIL IN AREAS WHERE REQUIRED TO OBTAIN THICKNESS AS SCHEDULED. PLACE TOPSOIL DURING DRY WEATHER. PROVIDE ADDITIONAL TOPSOIL REQUIRED TO BRING SURFACE TO PROPOSED FINISH GRADE, AS REQUIRED.
- COMPACT TOPSOIL THICKNESS AT THE FOLLOWING AREAS:
 - LAWN AREAS: 4 INCHES MINIMUM OR AS NECESSARY TO ACHIEVE EVEN GRADES WITH SURROUNDING LAWN AREAS.
 - PLANTER BEDS: 18 INCHES MINIMUM.
- FINE GRADE TOPSOIL TO SMOOTH, EVEN SURFACE WITH LOOSE, UNIFORm FINE TEXTURE. REMOVE RIDGES AND FILL DEPRESSIONS, AS REQUIRED TO MEET FINISH GRADES. FINISH GRADE OF TOPSOIL SHALL BE 2" BELOW FINISH GRADE OF PAVEMENTS FOR SOD AND 1" FOR SEED.
- ALL GRAVEL, SUBBASE, AND OTHER IMPERVIOUS FILL MATERIALS OTHER THAN TOPSOIL SHALL NOT BE STOCKPILED IN PROPOSED IMPERVIOUS AREAS. NO GRAVEL OR ROCK MATERIALS SHALL BE STOCKPILED 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.

LANDSCAPE AREA PREPARATION NOTES:

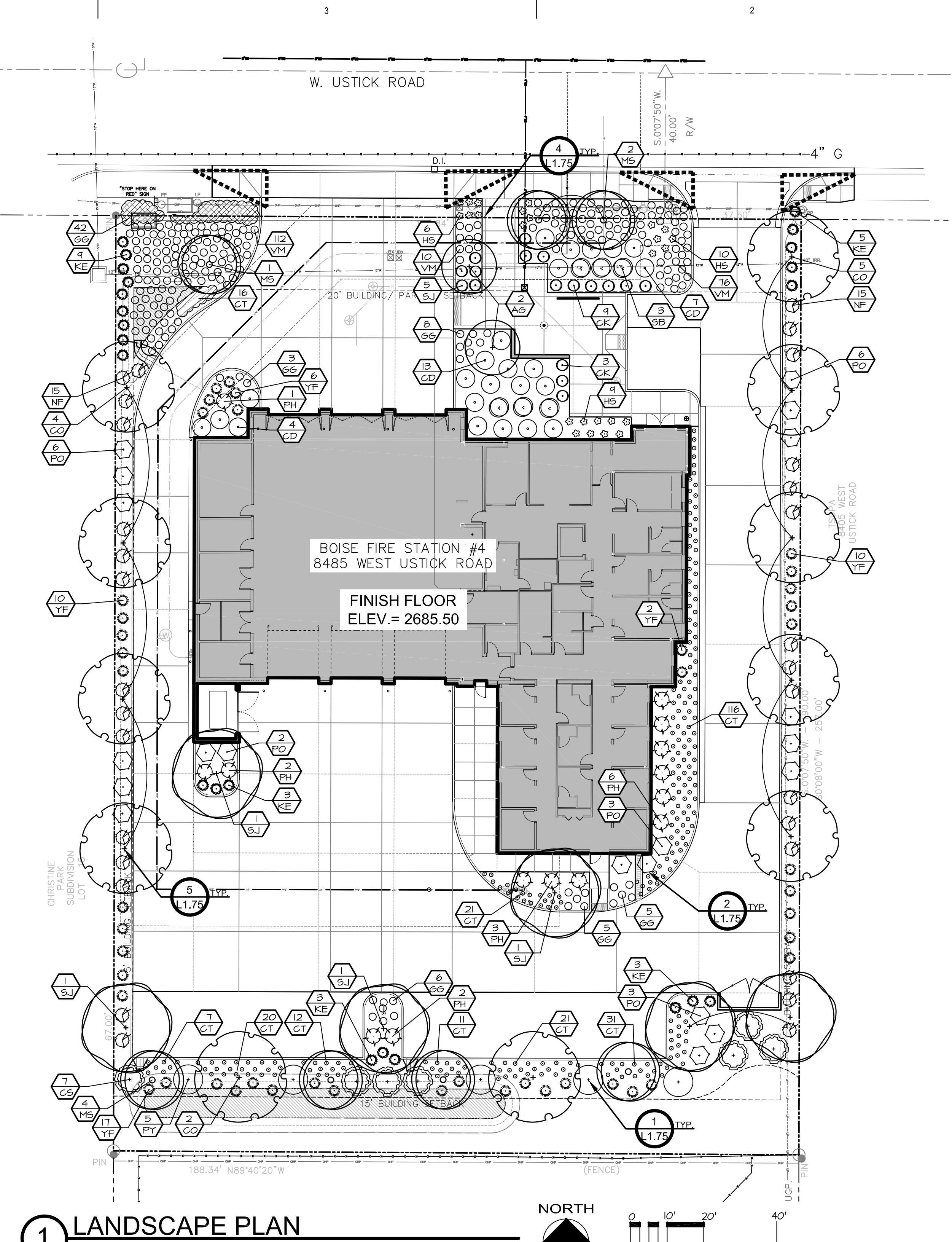
- LIMIT TURF SUBGRADE PREPARATION TO AREAS TO BE PLANTED.
- NEARLY GRADED SUBGRADES, LOOSEN SUBGRADE TO A MINIMUM DEPTH OF 4 INCHES. REMOVE STONES LARGER THAN 1 INCH IN ANY DIMENSION AND STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEous MATTER AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY.
 - SPREAD PLANTING SOIL TO A DEPTH OF 4 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 LOOSENED SUBGRADE.
 - REDUCE ELEVATION OF PLANTING SOIL TO ALLOW FOR SOIL THICKNESS OF SOD OR SEED.
- 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 STICKS. DO NOT MIX INTO SURFACE SOIL.
 - LEVEL SURFACE SOIL TO A DEPTH OF AT LEAST 6 INCHES. PREPARE ABATEMENT PROCEDURE. APPLY SOIL AMENDMENTS AND FERTILIZERS ACCORDING TO PLANTING SOIL MIX PROPORTIONS AND MIX THOROUGHLY INTO TOP 6 INCHES OF SOIL TILL SOIL TO A HOMOGENEOUS MIXTURE OF FINE TEXTURE.
 - APPLY SOIL AMENDMENTS DIRECTLY TO SURFACE SOIL BEFORE LOSING.
 - 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, UNIFORm 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.
- DO NOT PLANT PLANTING AREAS UNTIL LANDSCAPE ARCHITECT'S ACCEPTANCE OF FINISH GRADING; RESTORE PLANTING AREAS IF ERODED OR OTHERWISE DISTURBED AFTER FINISH GRADING.
- DO NOT SOW IMMEDIATELY FOLLOWING RAIN, OR WHEN GROUND IS TOO DRY. TEMPERATURE SHALL BE BETWEEN 55 F AND 95 F FOR A 24 HOUR PERIOD. WIND SHALL BE LESS THAN 5 MPH.

WEED ABATEMENT NOTES:

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

TREE MITIGATION NOTES:

- THE LANDSCAPE ARCHITECT WILL MEET WITH THE CITY ARBORIST TO ESTABLISH MITIGATION REQUIREMENTS FOR REMOVAL OF EXISTING TREES.



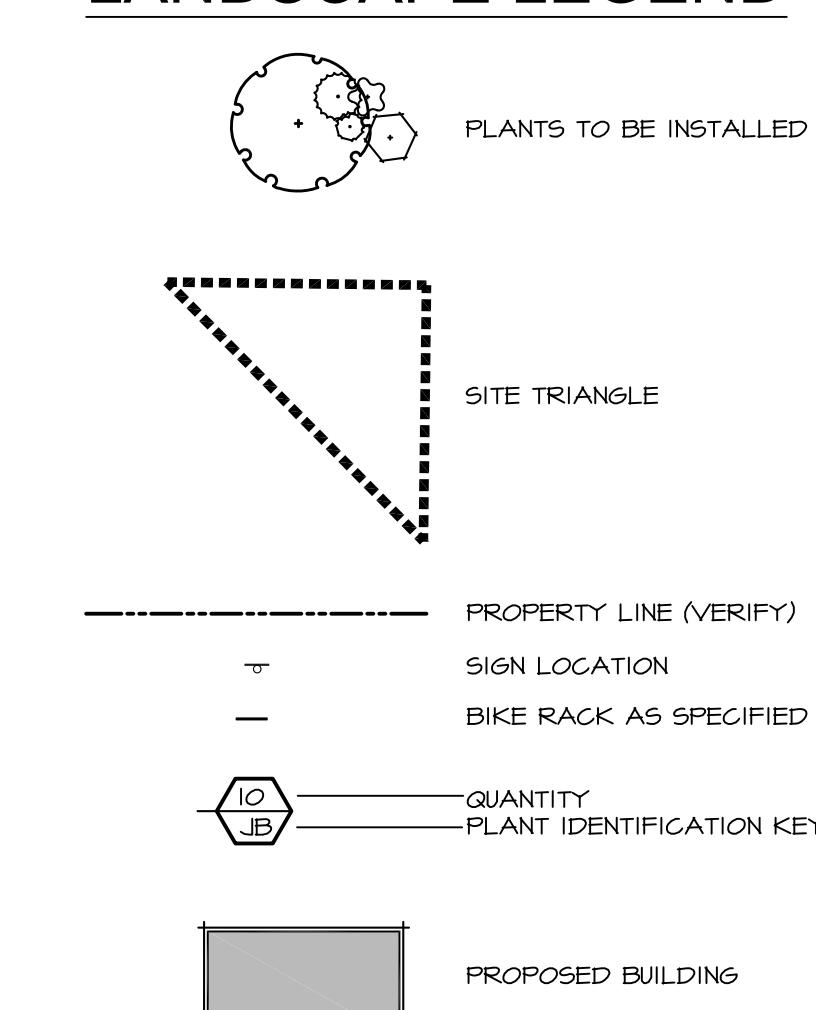
1 LANDSCAPE PLAN

SCALE: 1" = 20' - 0"

PLANT SCHEDULE

QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES	CLASS	MATURE
DECIDUOUS SHADE TREES							
11	CO	Celtis occidentalis	Common Hackberry	2" CAL, B&B	Drought Tolerant	II	40'x40'
6	SJ	Sophora japonica	Japanese Pagoda Tree	2" CAL, B&B	Drought Tolerant		45'x40'
ORNAMENTAL FLOWERING TREES							
1	AG	Acer ginnala 'Flame'	Flame Amur Maple	2" CAL, B&B	Drought Tolerant/Firewise	I	20'x20'
8	MS	Malus x 'Spring Snow'	Spring Snow Crabapple	2" CAL, B&B	Drought Tolerant/Firewise	I	28'x20'
SHRUBS/PERENNIALS/ORNAMENTAL GRASSES/GROUND COVERS							
26	CD	Cotoneaster dammeri 'Strebs Finding'	Strebs Finding Cotoneaster	#1	Firewise		
12	CK	Cornus sericea 'Kelseyi'	Kelsey Dogwood	#2	Firewise		
271	CT	Ceratostoma lomentosum	Summer Snow	4" POTS	Drought Tolerant		
7	CS	Corylus avellana	Red Oak Leaf Willow	#2	Firewise		
66	GS	Gallonia caroliniana 'Goblin'	Goblin Blanket Flower	4" POTS	Drought Tolerant/Firewise		
15	H5	Hemerocallis 'Stella de Oro'	Stella de Oro Daylily	4" POTS	Firewise		
23	KE	Kniphofia 'Echo Rojo'	Echo Rojo Red Hot Poker	4" POTS	Drought Tolerant		
30	NF	Neptunia x faassenii 'Walker's Low'	Walker's Low Catmint	4" POTS	Drought Tolerant		
20	PH	Philadelphus x virginalis 'Snowflake'	Dwarf Snowflake Mock Orange	#2	Drought Tolerant		
7	PO	Physocarpus opulifolius 'Dart's Gold'	Dart's Gold Ninebark	#5	Drought Tolerant		
4	SB	Physocarpus opulifolius 'Diabolo'	Diabolo Ninebark	#5	Drought Tolerant		
148	VM	Spirea x 'Anthony Waterer'	Anthony Waterer Spirea	#2	Firewise		
45	YF	Vinca minor 'Bowles'	Bowles' Common Periwinkle	4" POTS	Firewise		
		Yucca filamentosa 'Color Guard'	Color Guard Adam's Needle	#2	Drought Tolerant		

LANDSCAPE LEGEND



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Seattle, WA 98115 | (208) 522-3820



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• 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

City of Boise Fire Station 4
8485 W. Ustick Rd. Boise, ID 83704

REVISIONS:
MARK DATE DESCRIPTION

PROJECT PHASE Project Status
PROJECT NUMBER 15043
PROJECT MANAGER R. TeBeau
PROJECT ARCHITECT R. TeBeau
DESIGN JB
DRAWN BY JB, LP, JR, BS

SHEET NAME:

SHEET NUMBER:

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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 12" DEPTH OF SCAFFOLDING IN FRONT OF CURB OR EDGE OF PAVEMENT. PROVIDE COMPACTOR BACKFILL AS NECESSARY AT HARD SURFACE LOCATIONS.
- 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 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 LEGS OF TREES POTENTIALLY MAY IMPEDE PERFORMANCE OF A 4" POP-UP SPRINKLER. AREAS TO BE REPLACED WITH 12" HIGH POP-UP 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. ALL 24 VOLT POWER WIRES SHALL BE TAPE WRAPPED BACK TO THE VALVE. ALL COMMON WIRES SHALL BE #12 AWG COPPER. ALL 24 VOLT WIRES SHALL BE TAPE WRAPPED AT 1 FOOT (10'-0") INTERVALS.
- 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 EXCLUSIVE 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 LOCATIONS TO FIT THE AS-BUILT SITE. ADJUST HEAD AND PIPE LOCATIONS AS REQUIRED TO AVOID DAMAGING EXISTING TREE ROOTS. ADJUSTMENTS SHALL ENURE 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 MAINTAIN WATER PRESSURES AT THE SPECIFIED PRESSURES AS 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 LATERAL 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 RM 1/2" 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 SPRINKLER FLOWS ARE TO BE 0.6 GPH. LATERALS SHALL BE SPACED AT EIGHTEEN INCHES (21").
 - A NETAFIM TECH FILTER WITH A TRIFLURYL 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).
 - 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 TLS6 SIX INCH (6") SOIL STAPLES TO PREVENT EXPOSURE OF PIPE THROUGH THE SOIL. 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 INSURE PROPER WATERING IF NECESSARY.
- THE CONTRACTOR IS RESPONSIBLE TO SCHEDULE A MEETING WITH THE LANDSCAPE ARCHITECT AND THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH ANY IRRIGATION INSTALLATION IN ORDER TO REVIEW WORK TO BE DONE. NO CHANGES IN MATERIALS SPECIFIED OR TO THE DESIGN OF THE SYSTEM SHALL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT.
- ALL 1/2" LATERAL 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 OR SNAG LAYOUT INSTALLATION TYPES WILL NOT BE ACCEPTED. INSTALL DRIP LINE IN LATERAL ARRANGEMENT PER INSTALLATION DETAILS. ADJUST DRIP LINE LOCATION TO OBTAIN COMPLETE COVERAGE OF DRIP ZONE. DO NOT USE SPLIT SIZING 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. These 3 station run times reduce one third (1/3) the total application. Peak water application will require irrigation every night. Set controllers for start time #1 at 7:30pm, 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.

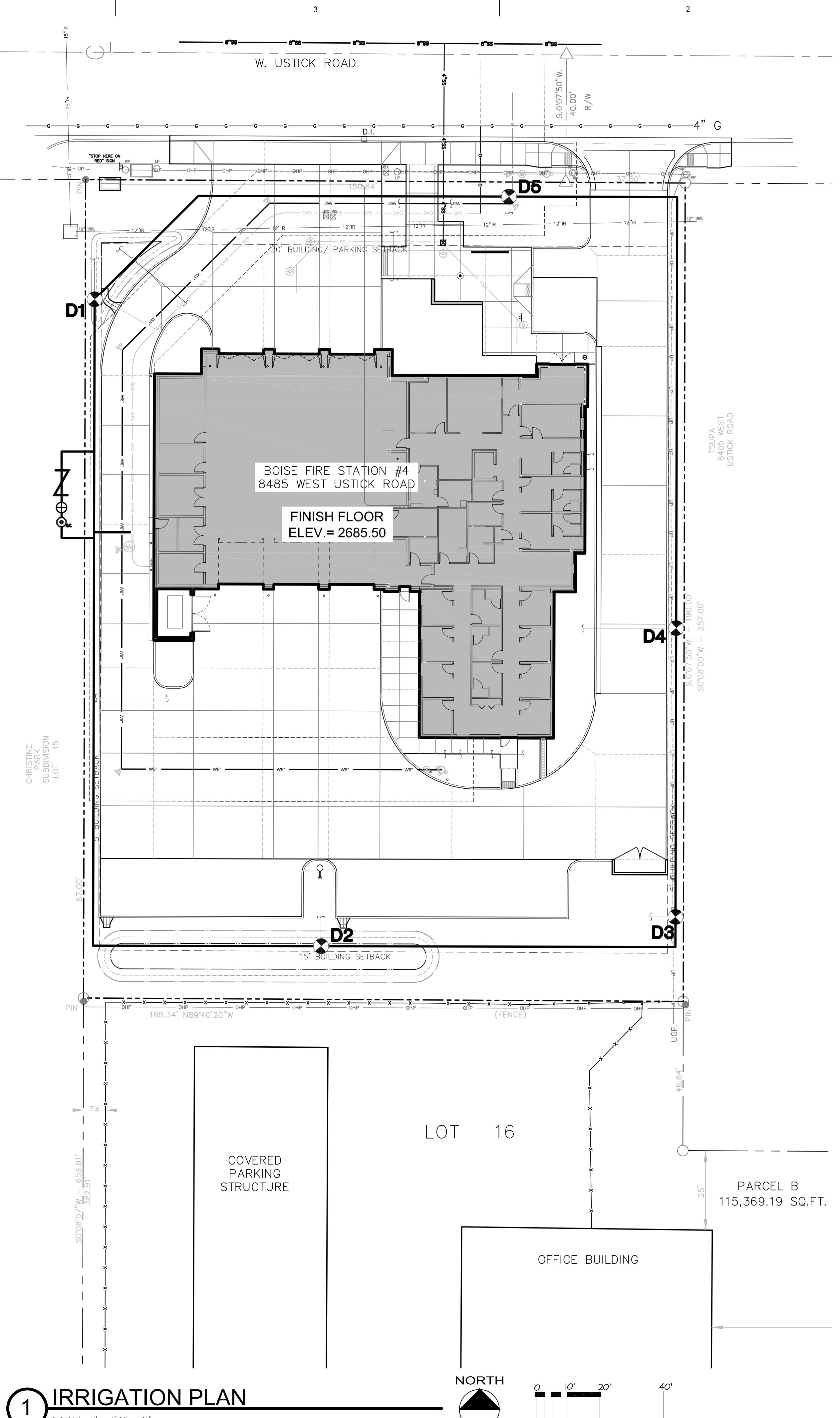
Pressure Irrigation System

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 542.01 OF THE IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 50.01.01) AND SECTION 542.01 OF THE WASTEWATER RULES (IDAPA 58.01.01).
- THE HORIZONTAL SEPARATION OF NON-POTABLE SERVICES AND 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 542.01 OF THE IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 50.01.01) AND SECTION 430.02 OF THE WASTEWATER RULES (IDAPA 58.01.01).
- 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.



1 IRRIGATION PLAN

SCALE: 1" = 20' - 0"

ZONE SCHEDULE

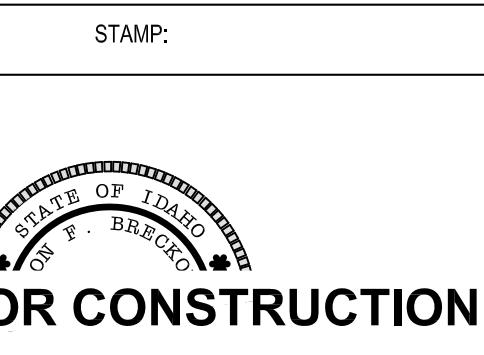
ZONE #	GPM	PSI	VALVE SIZE
D 1	12.32	30	1 1/2"
D 2	20.93	30	1 1/2"
D 3	17.07	30	1 1/2"
D 4	5.64	30	1 1/2"
D 5	8.60	30	1 1/2"



Know Where Below.
Call Before You Dig.
Call 2 business days
in advance before you
dig to have underground
utility lines located.
Excavate for the
utility lines, not
the underground
member utilities.

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Boise, ID 83702 | (208) 345-1800

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



City of Boise Fire Station 4
8485 W. Ustick Rd. Boise, ID 83704

PROJECT INFORMATION:

REVISIONS:

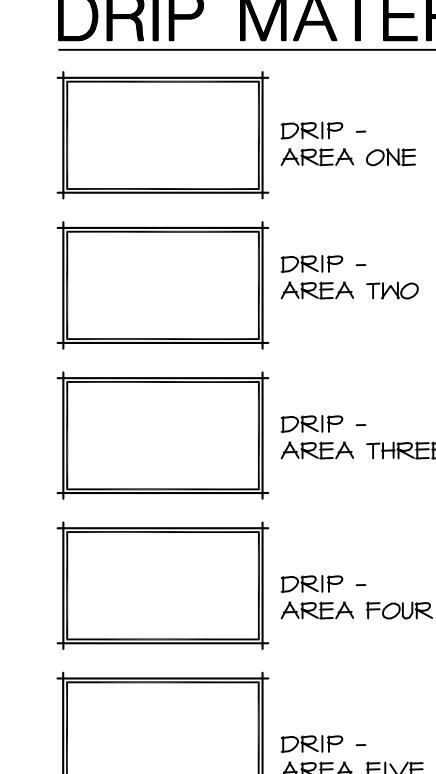
MARK DATE DESCRIPTION

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 GRADE WIRES SHALL BE LOCATED IN APPROPRIATELY 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 EMITTERS IN THIS AREA TO DRIP ZONE D16. 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



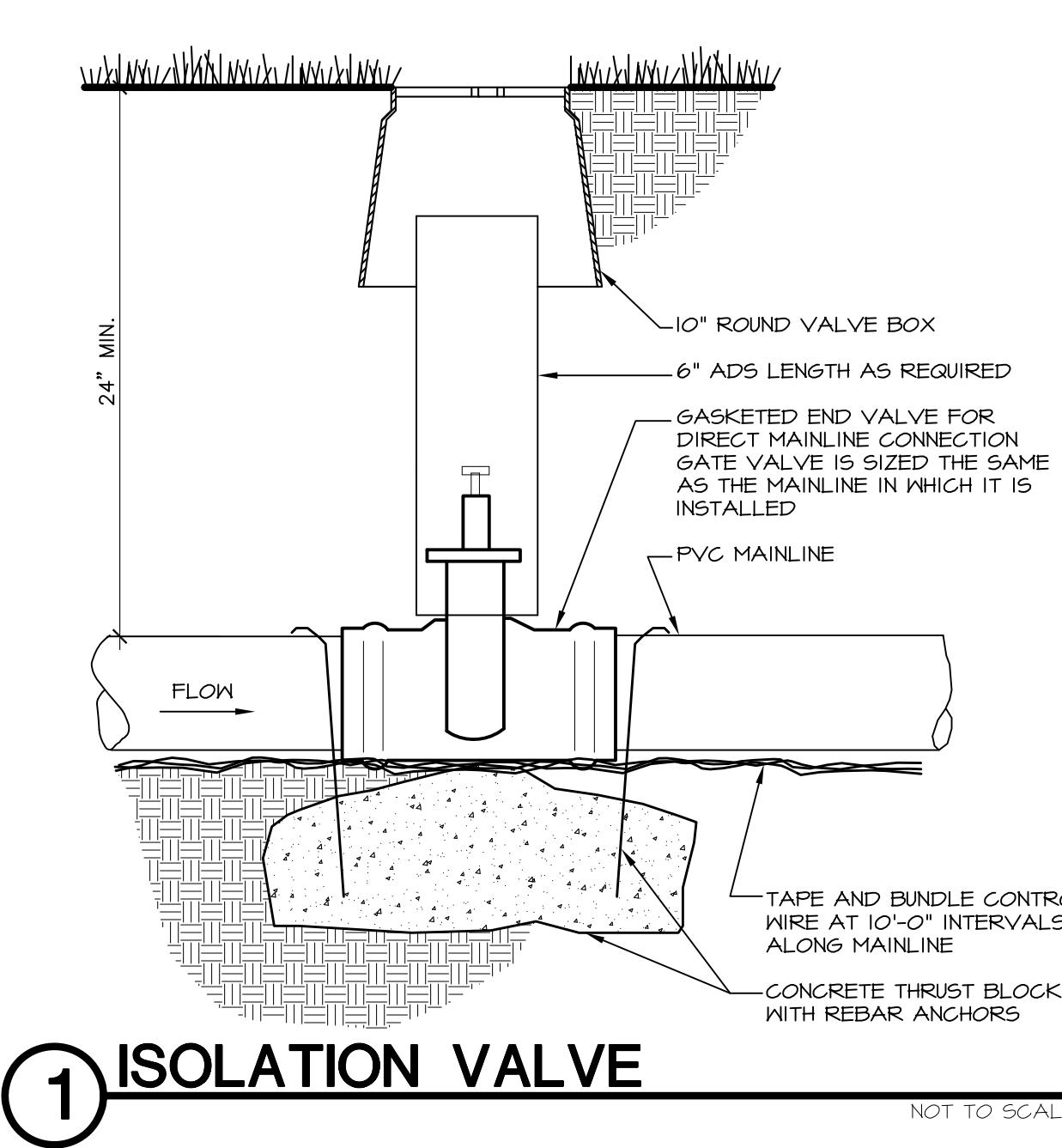
PROJECT PHASE	Project Status
PROJECT NUMBER	15043
PROJECT MANAGER	R. TeBeau
PROJECT ARCHITECT	R. TeBeau
DESIGN	JB
DRAWN BY	JB, LP, JR, BS

SHEET NAME:

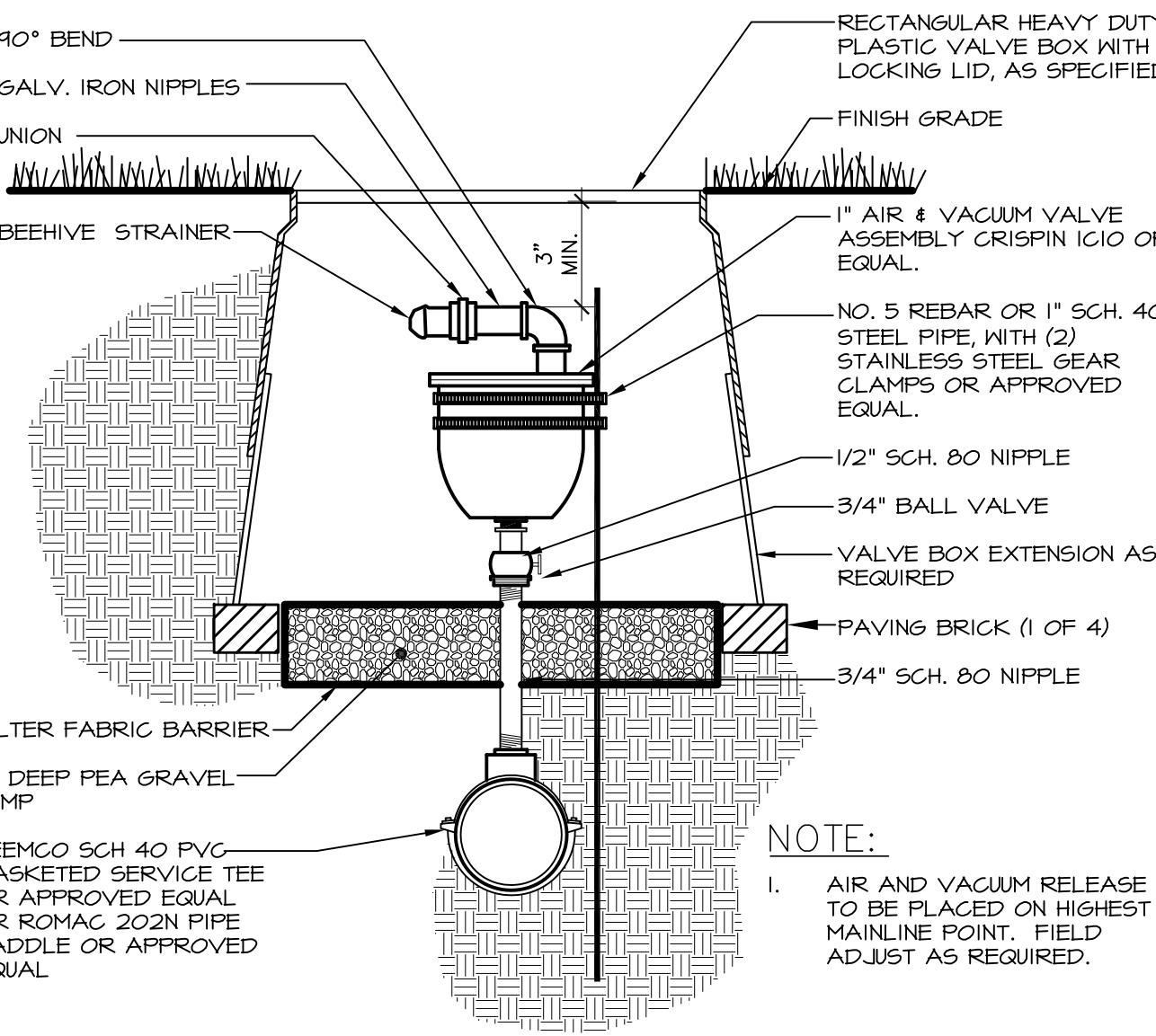
IRRIGATION PLAN

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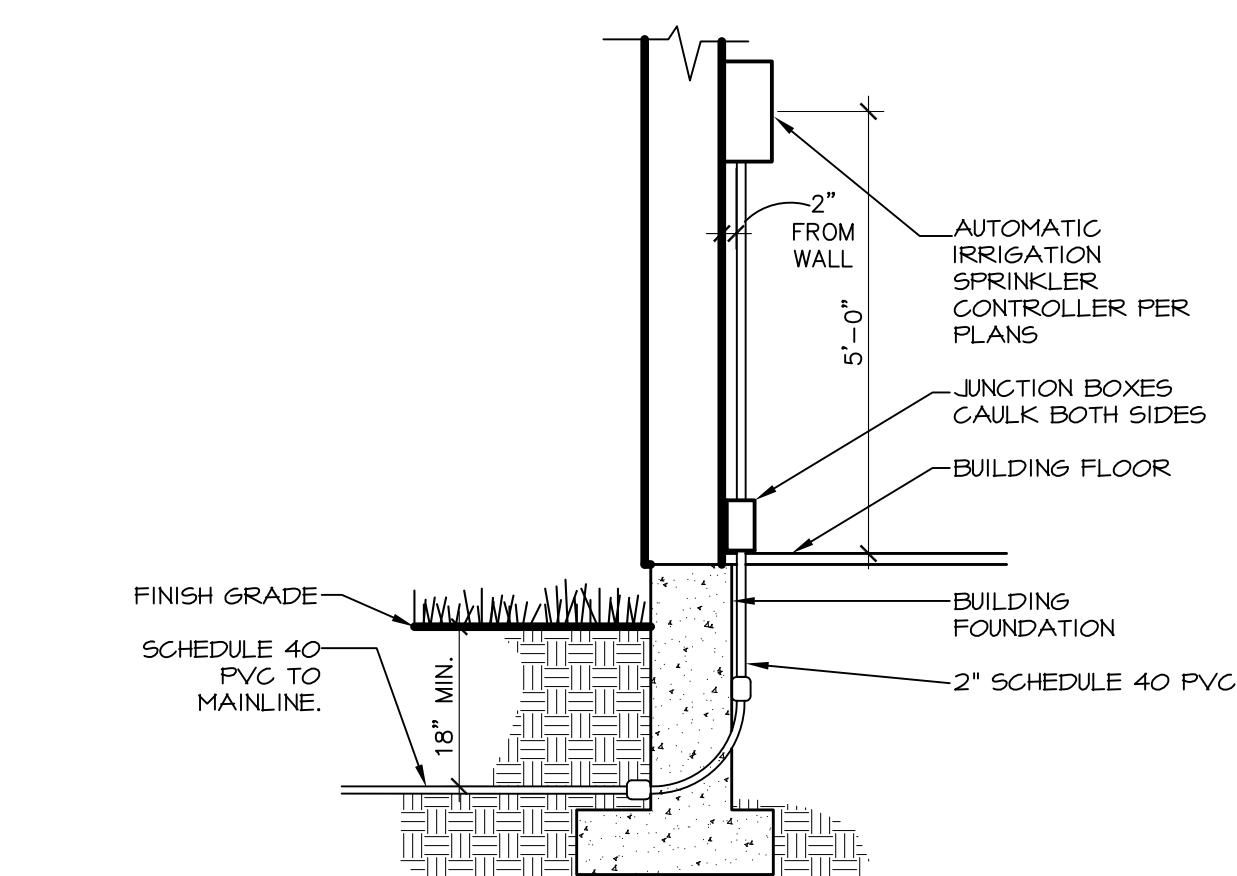
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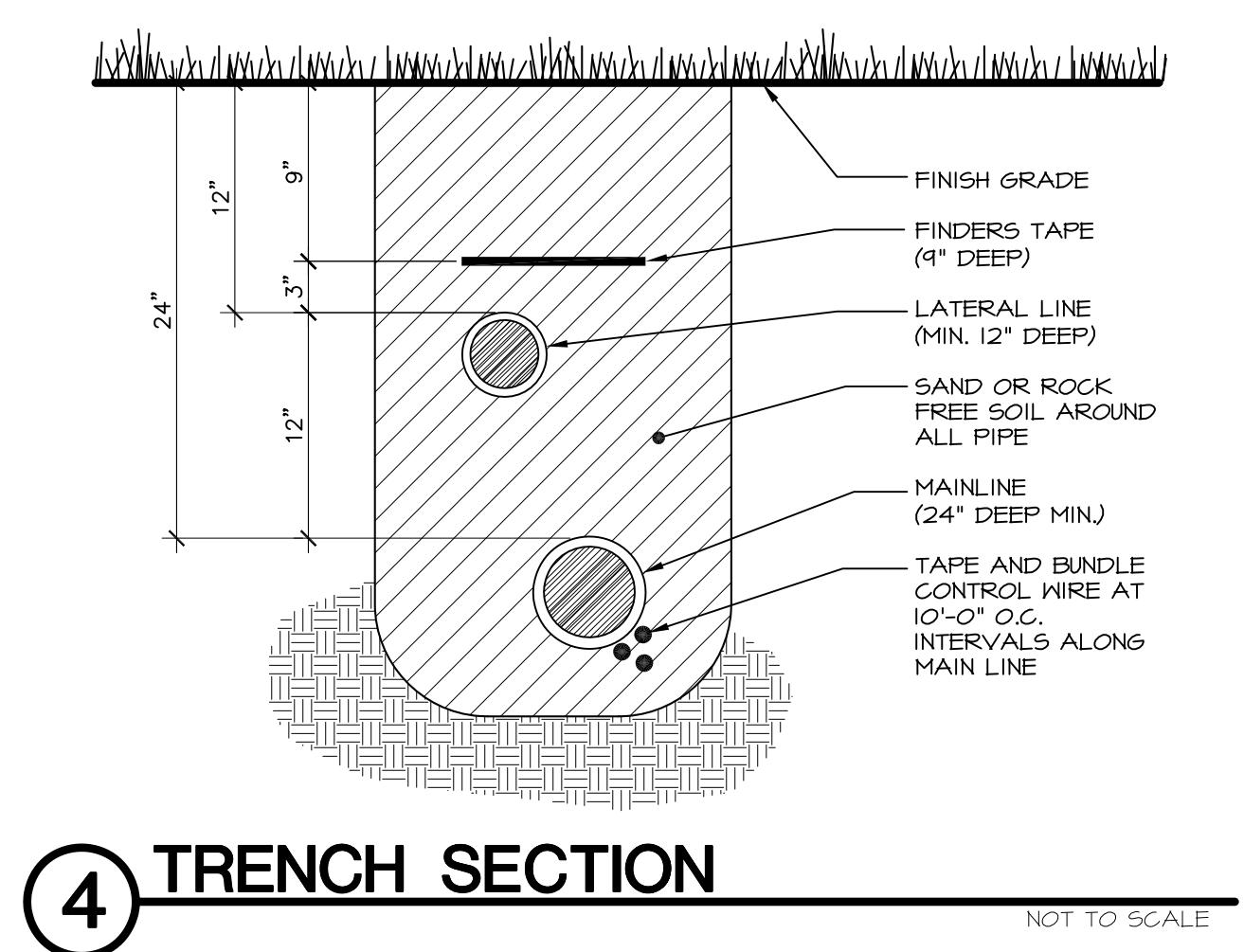
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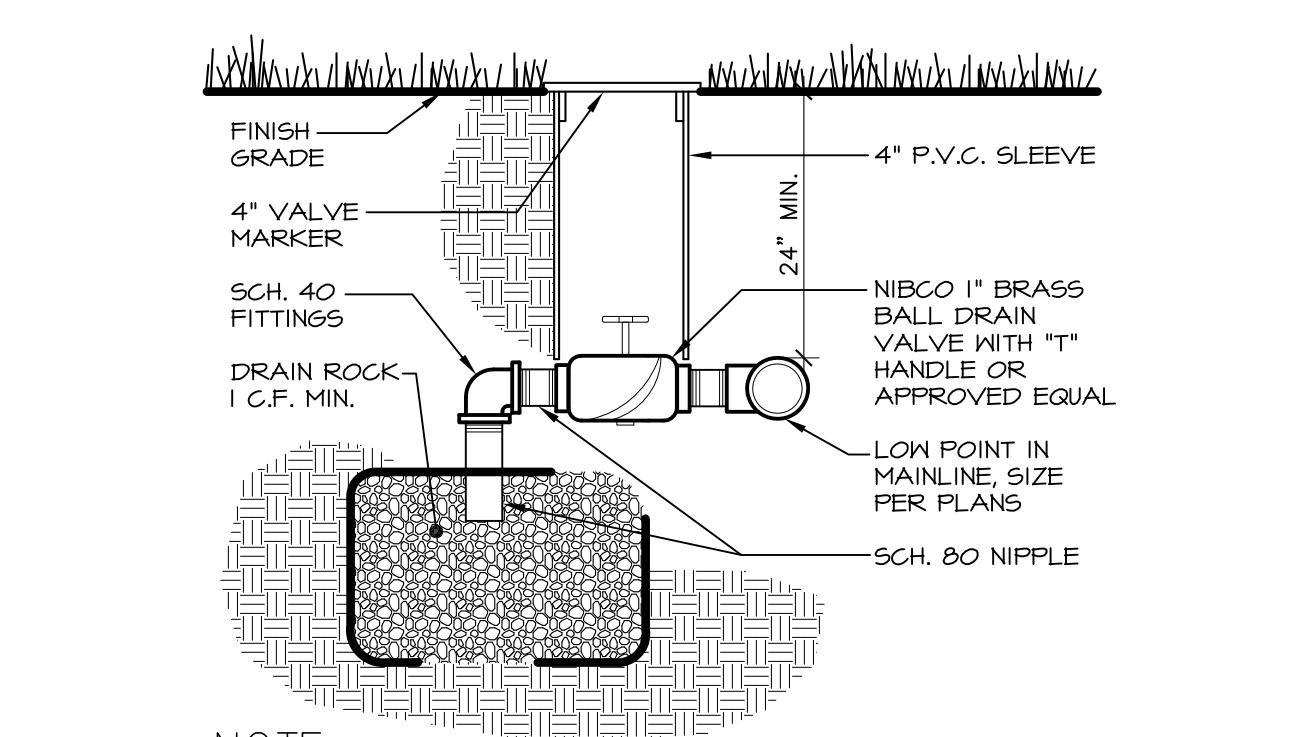
2 AIR RELIEF VALVE



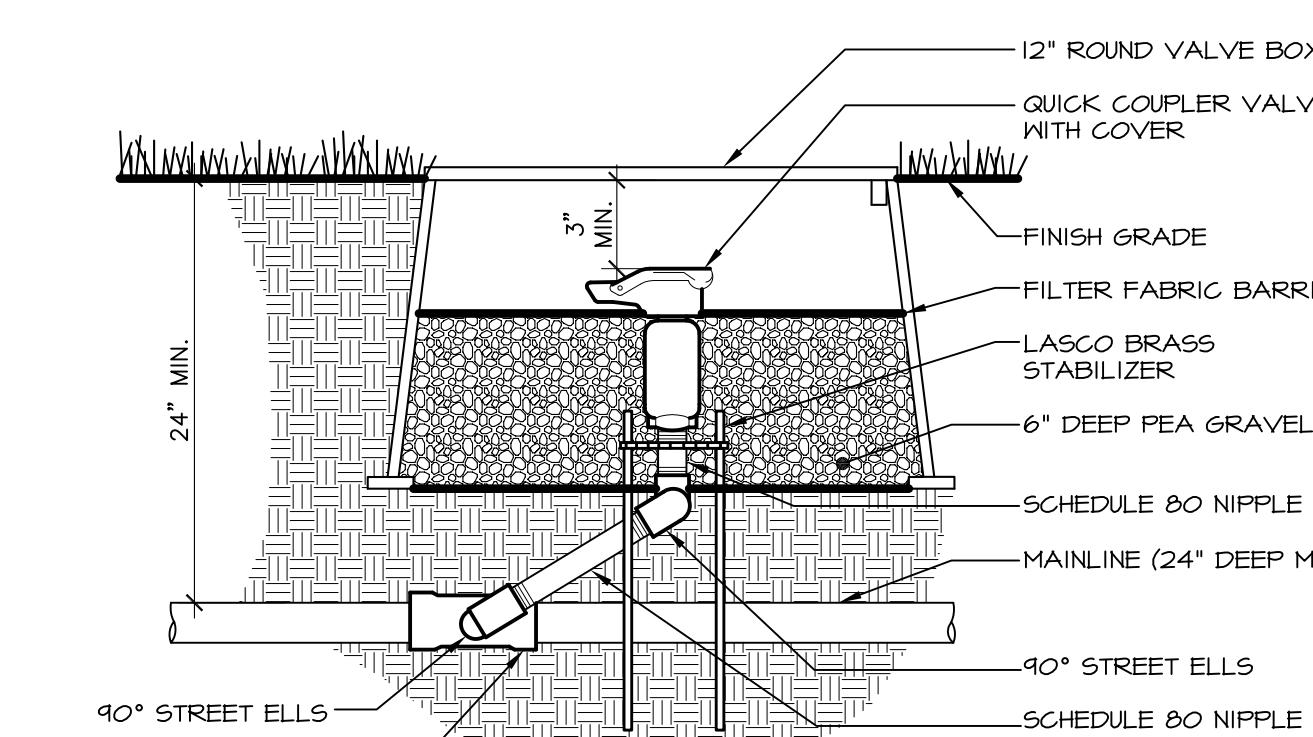
3 AUTOMATIC IRRIGATION CONTROLLER



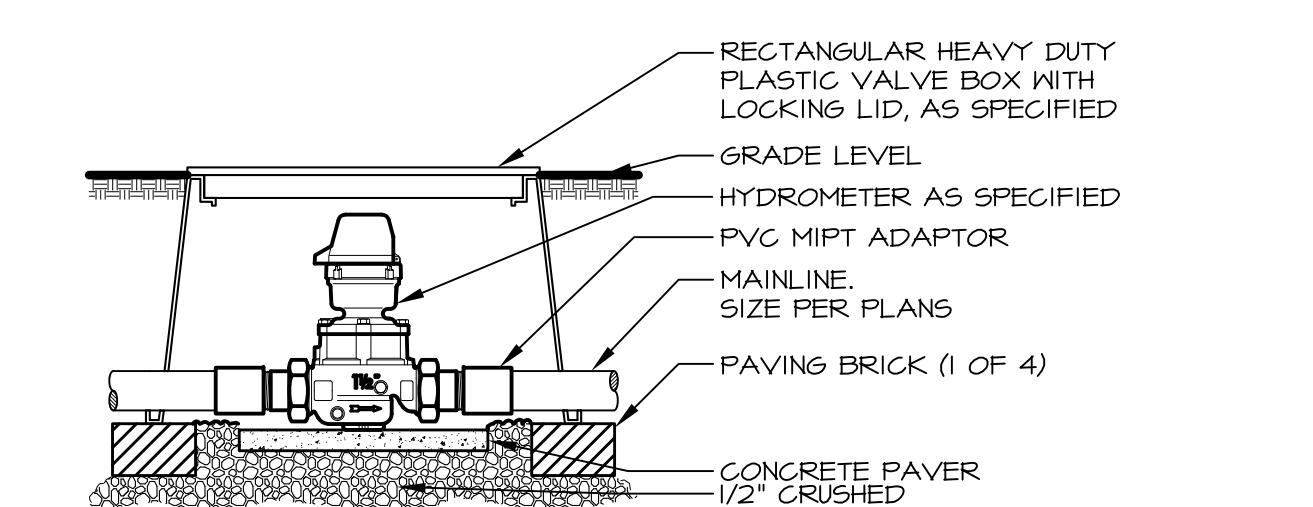
4 TRENCH SECTION



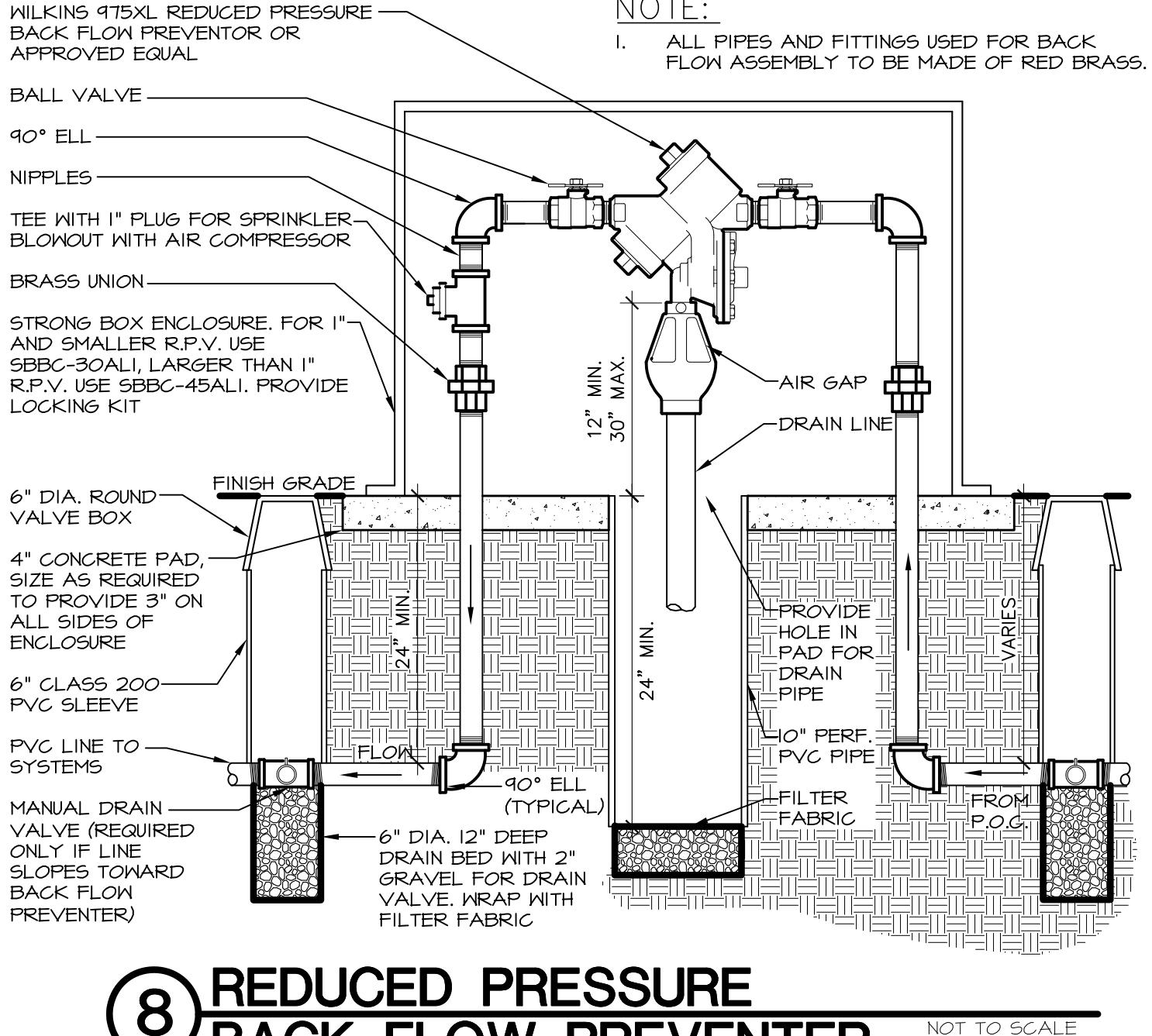
5 MANUAL DRAIN VALVE



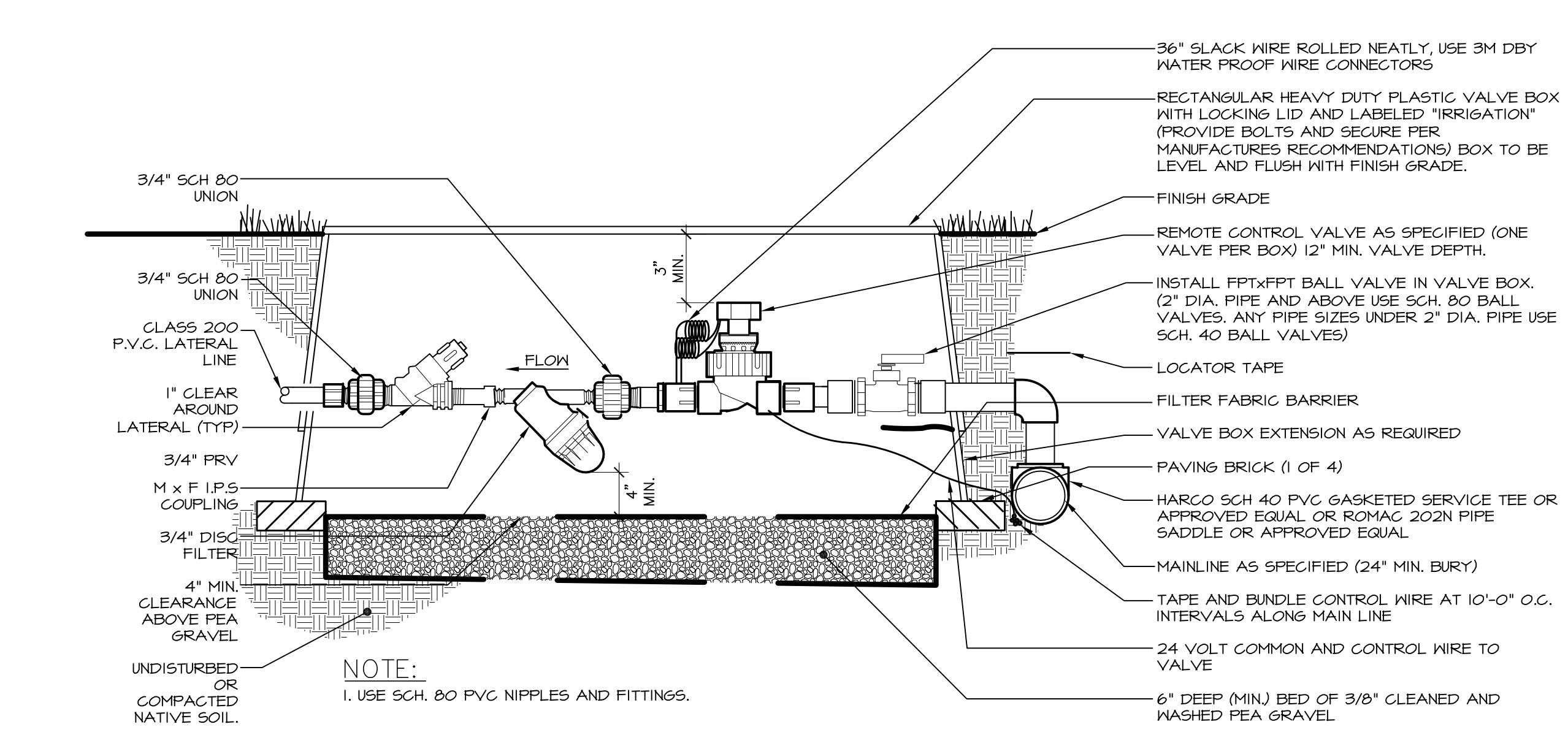
6 QUICK COUPLER VALVE



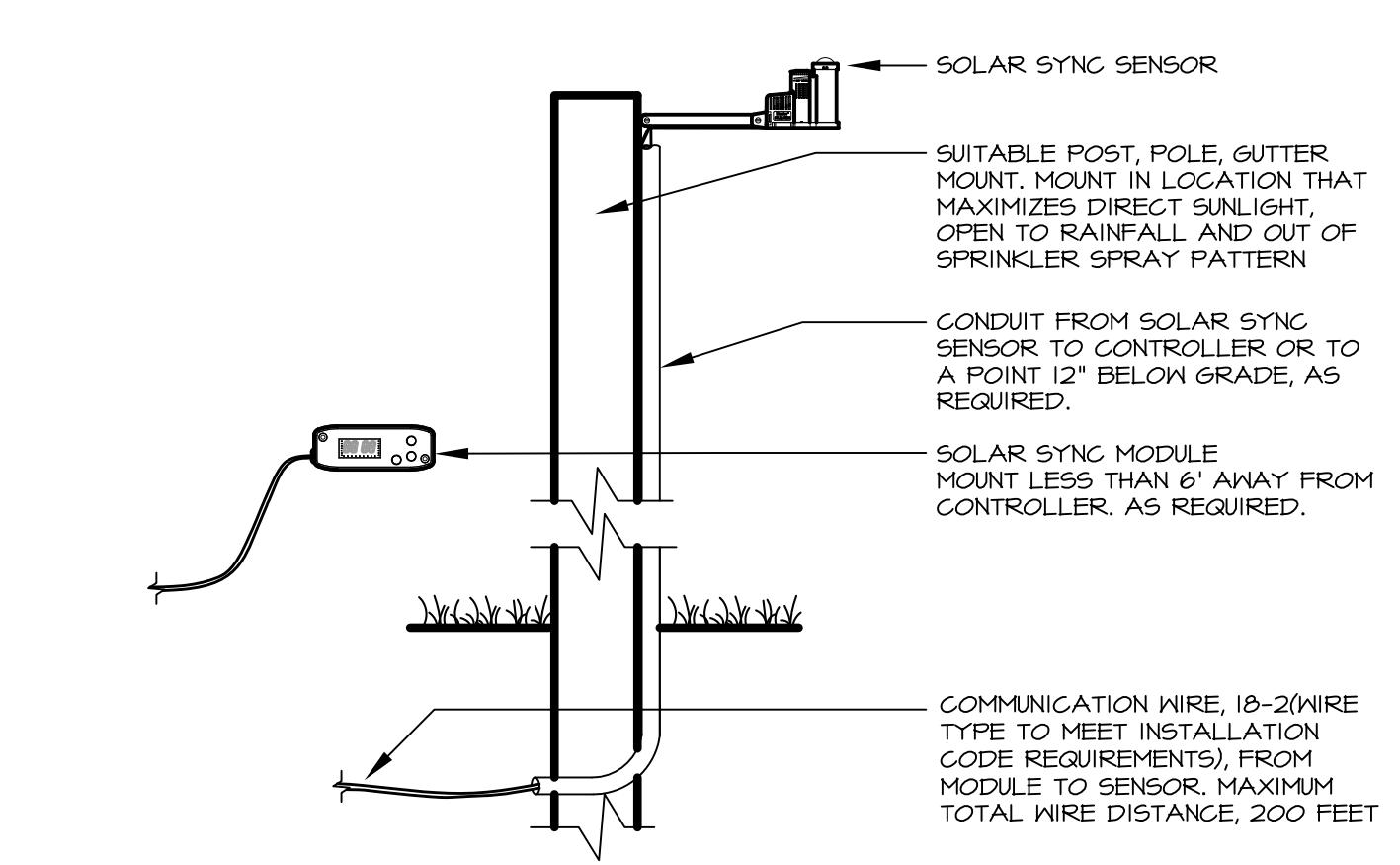
7 MASTER VALVE



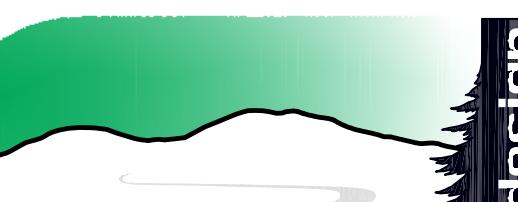
8 REDUCED PRESSURE BACK FLOW PREVENTER



9 REMOTE CONTROL VALVE WITH 3/4" FILTER

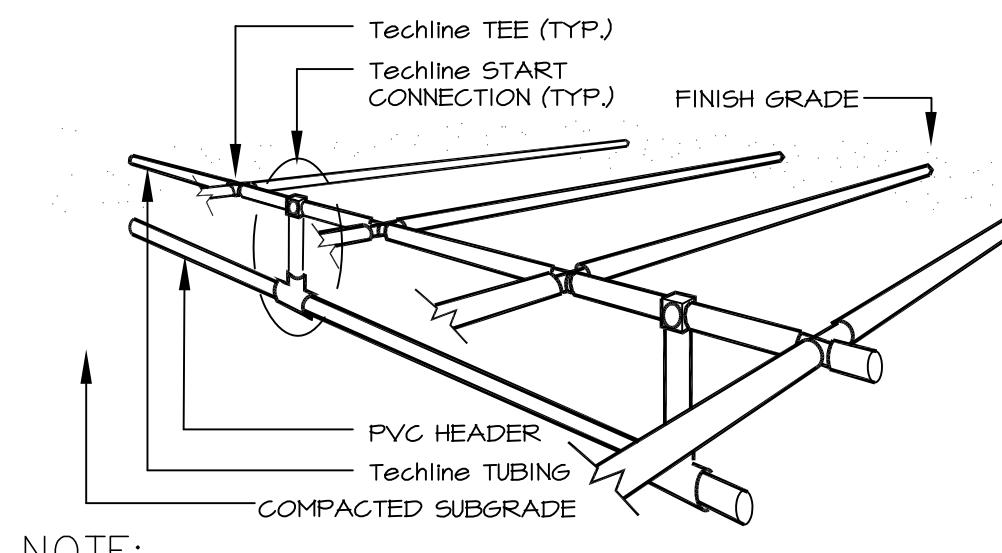


10 SOLAR SYNC INSTALLATION

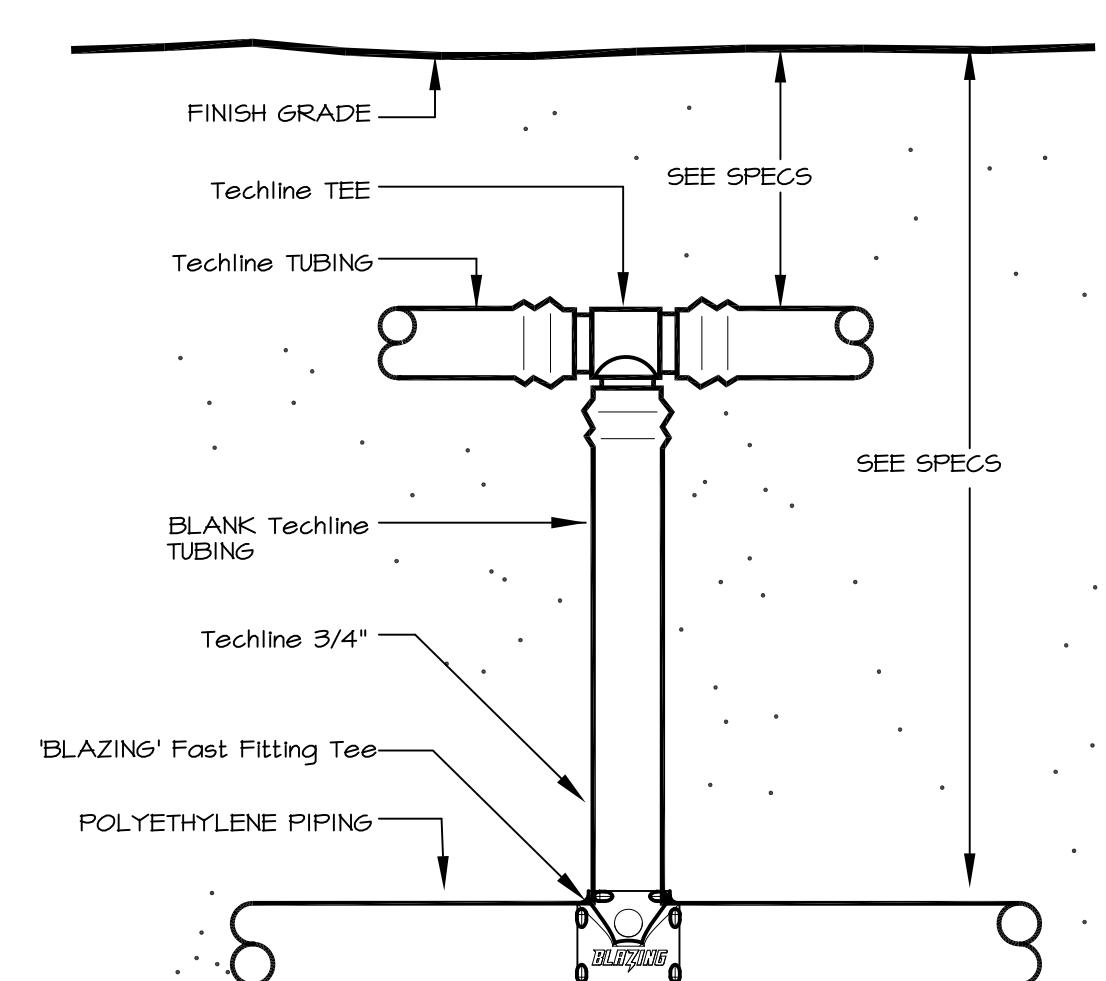


MARK	DATE	DESCRIPTION
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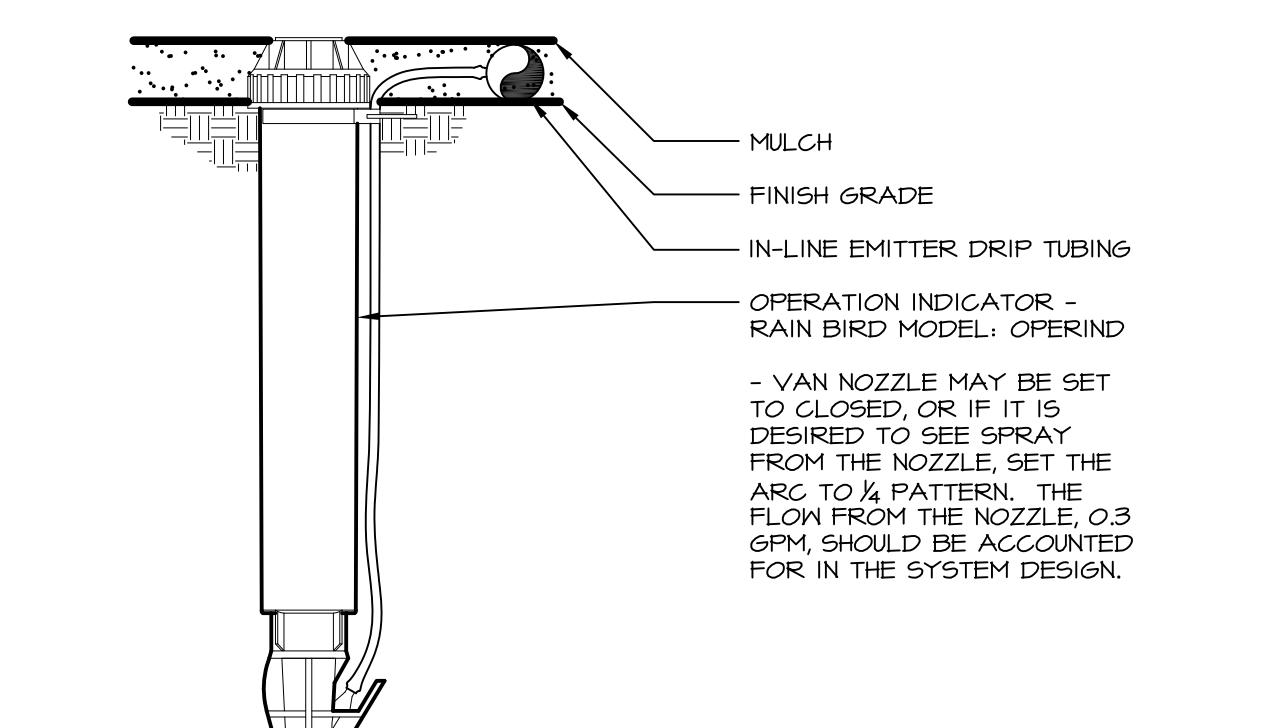
PROJECT PHASE	Project Status
PROJECT NUMBER	15043
PROJECT MANAGER	R. TeBeau
PROJECT ARCHITECT	R. TeBeau
DESIGN	JB
DRAWN BY	JB, LP, JR, BS



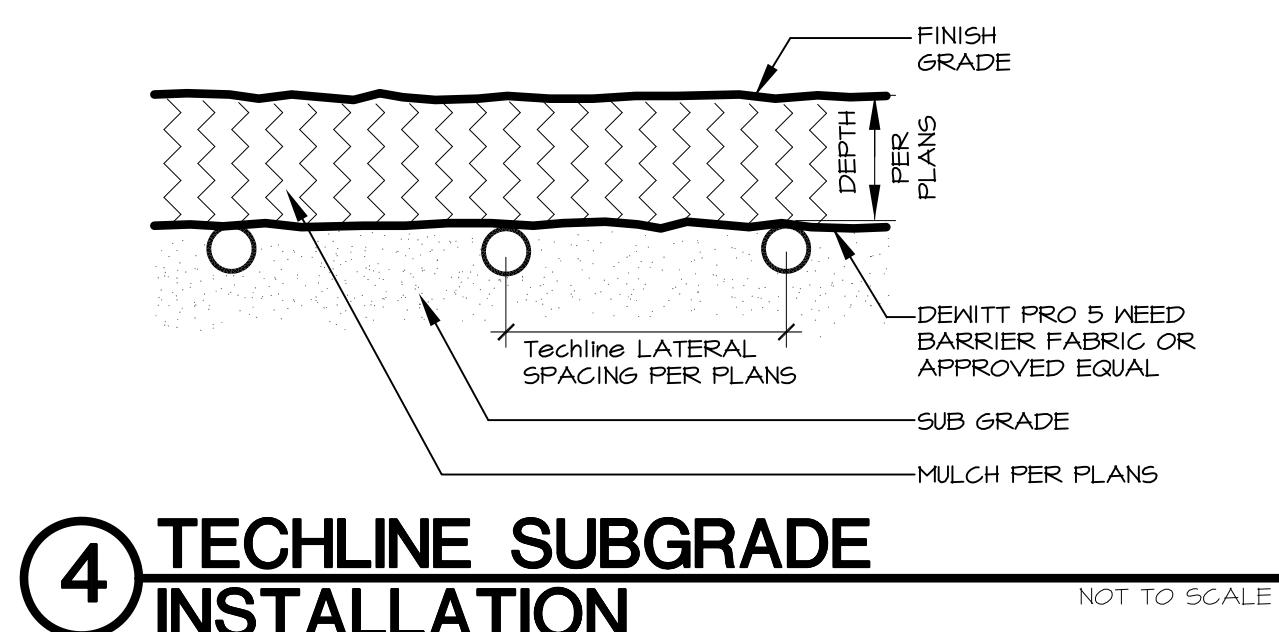
1 TECHLINE SUB-HEADER INSTALLATION



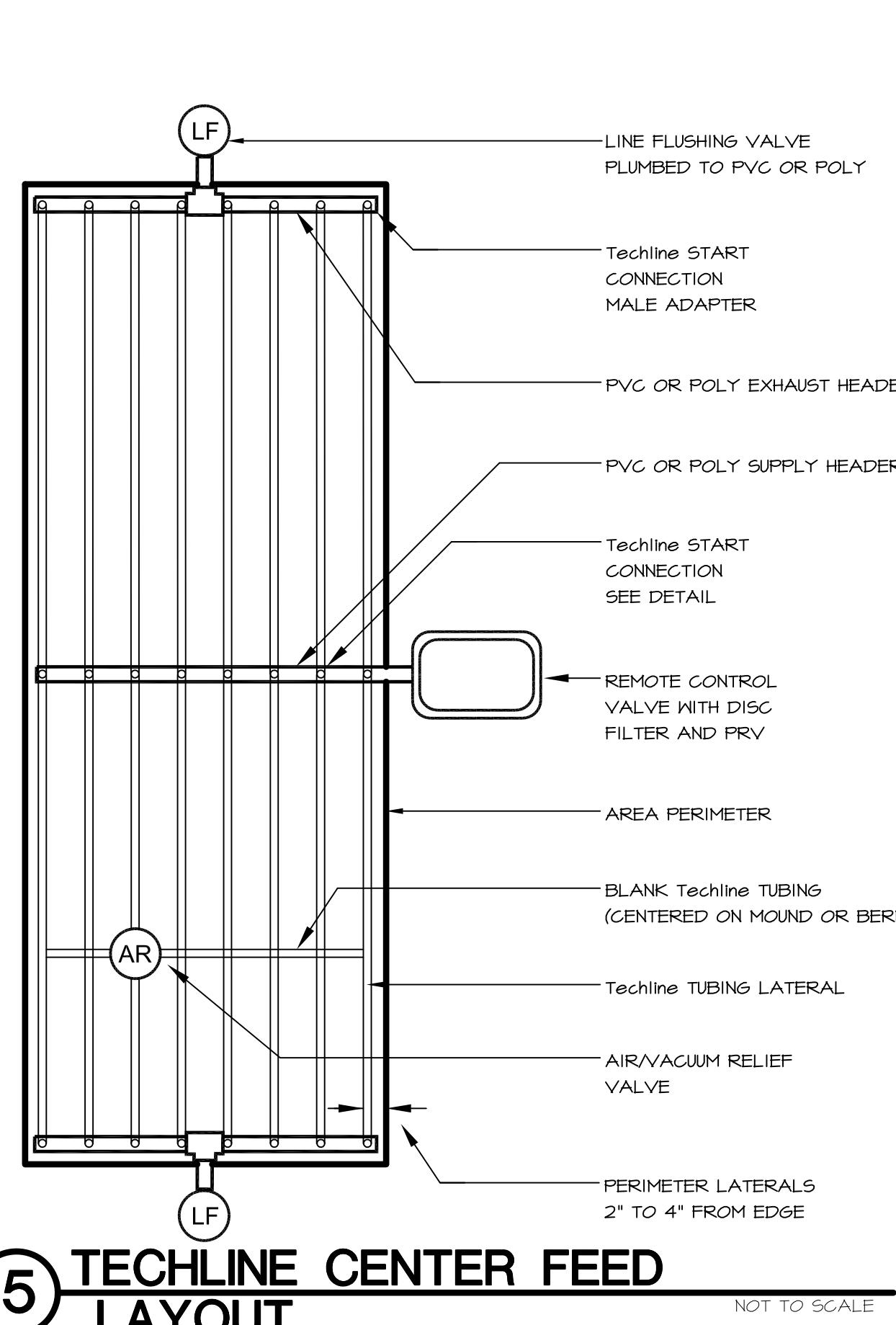
2 TECHLINE START CONNECTION (Lateral Line to Tee)



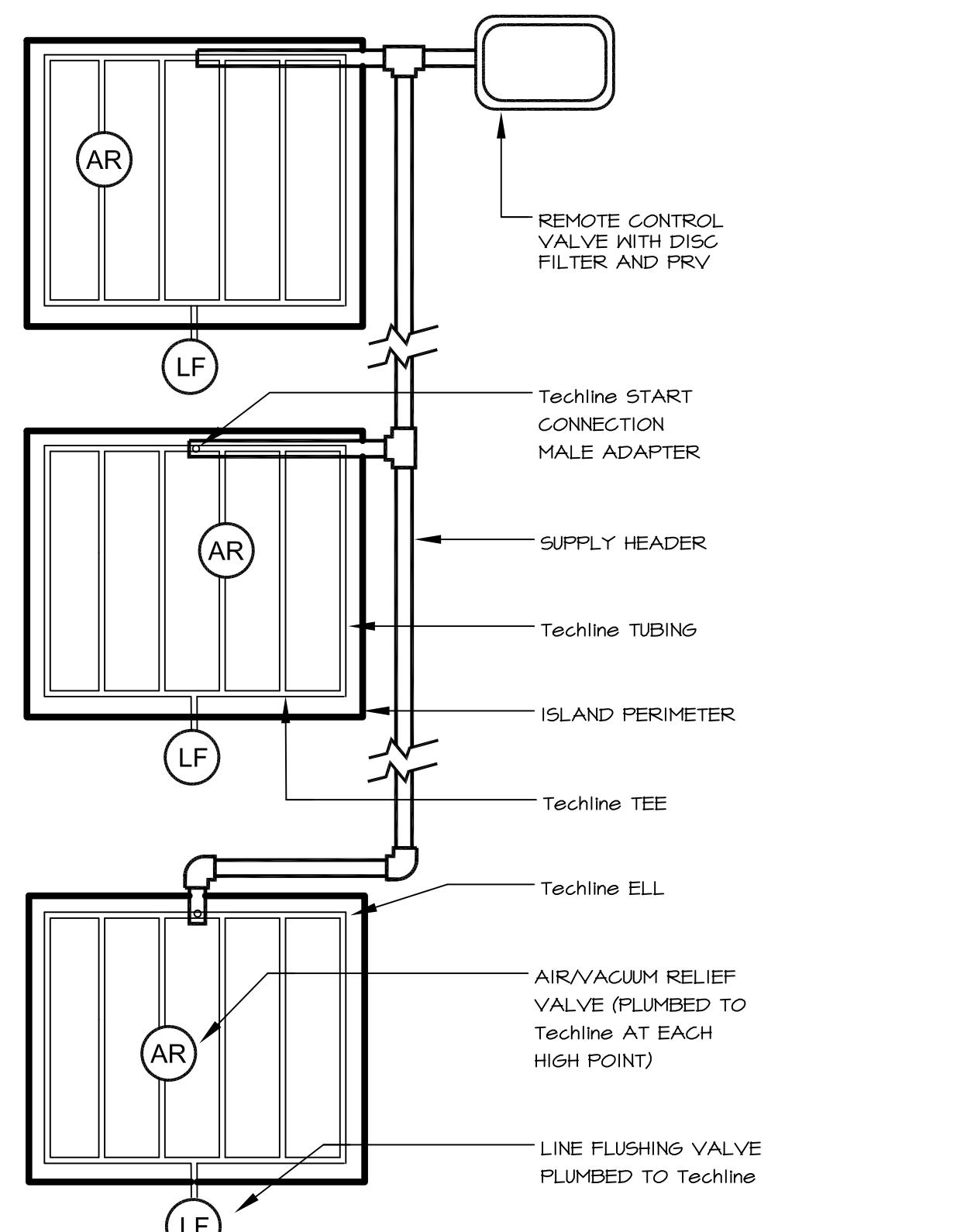
3 OPERATION INDICATOR



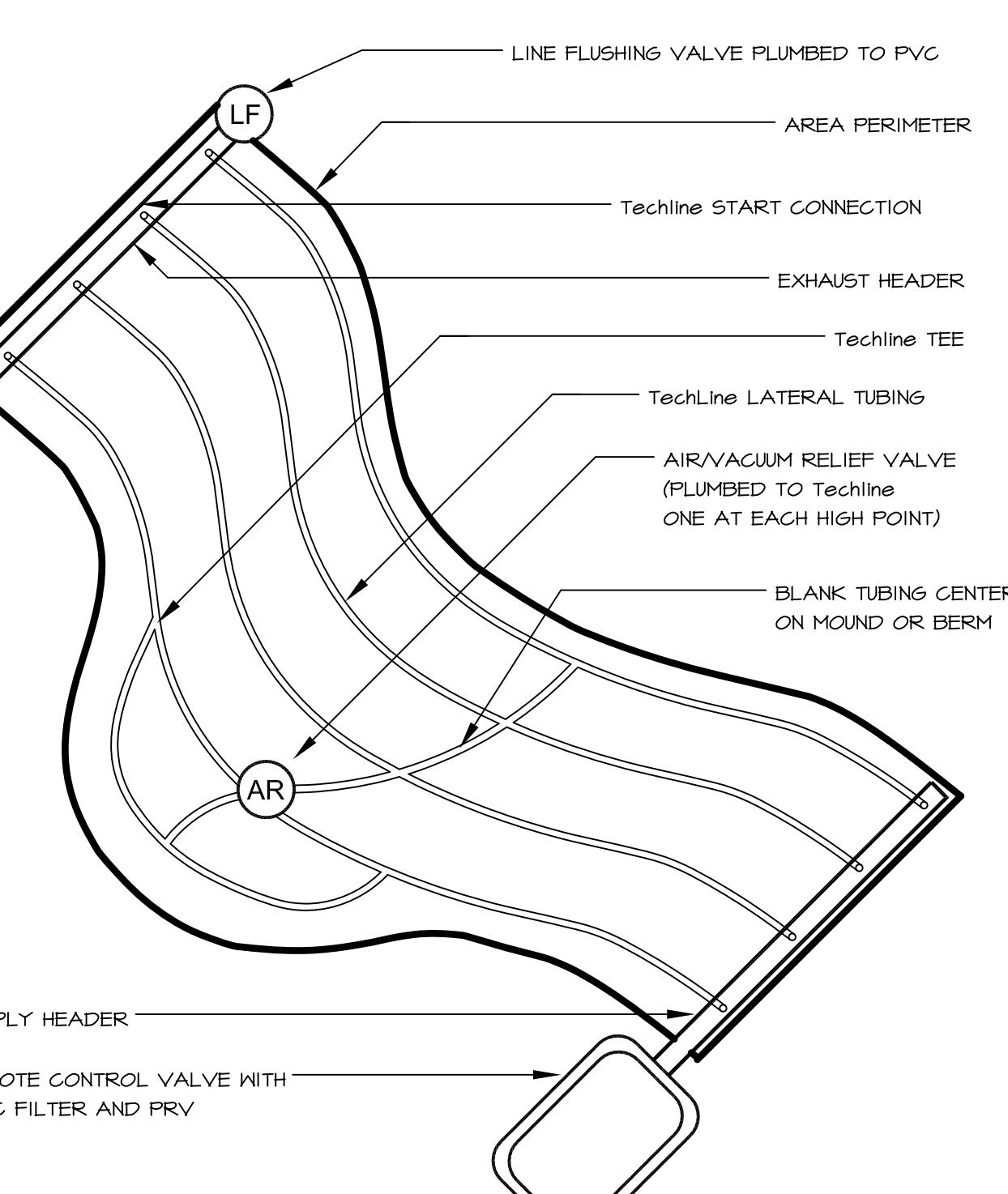
4 TECHLINE SUBGRADE INSTALLATION



5 TECHLINE CENTER FEED LAYOUT

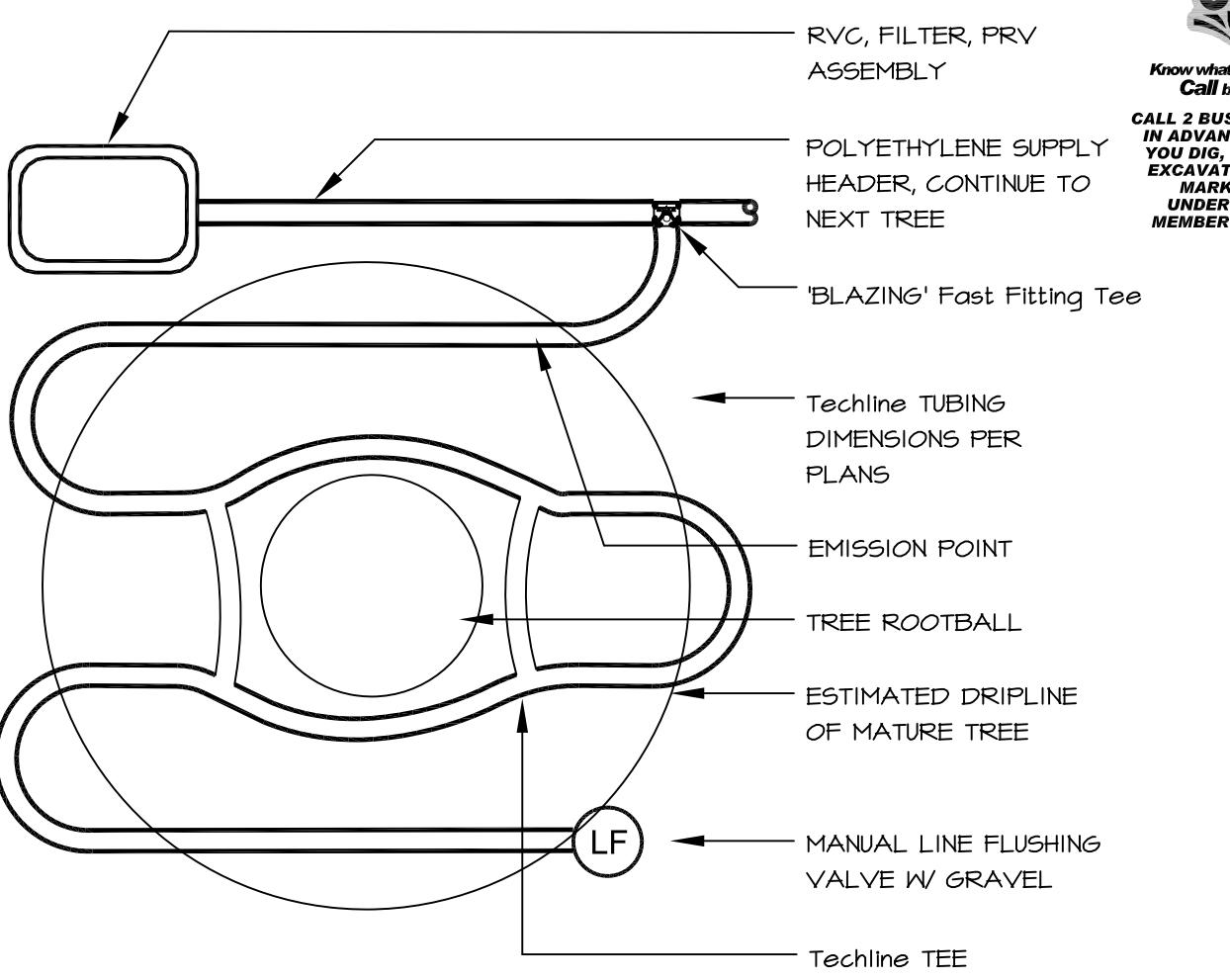


6 TECHLINE END FEED LAYOUT

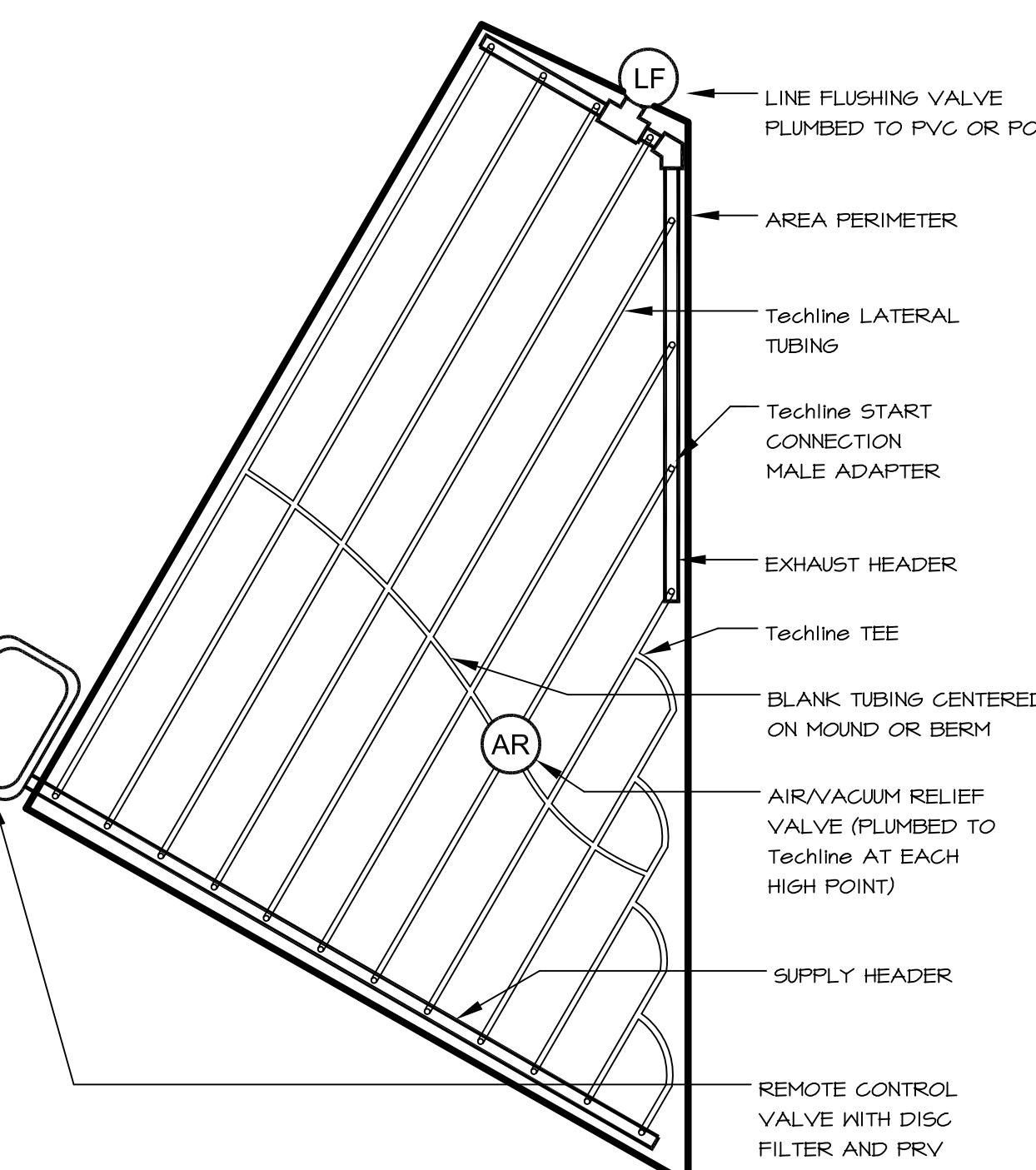


7 TECHLINE ISLAND LAYOUT

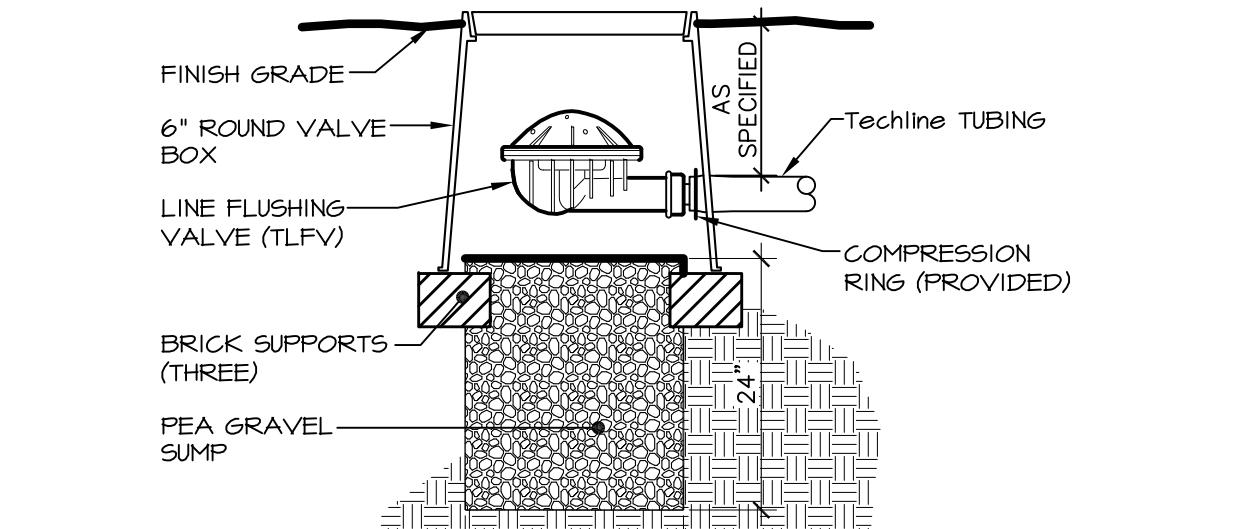
8 TECHLINE CURVED AREA LAYOUT



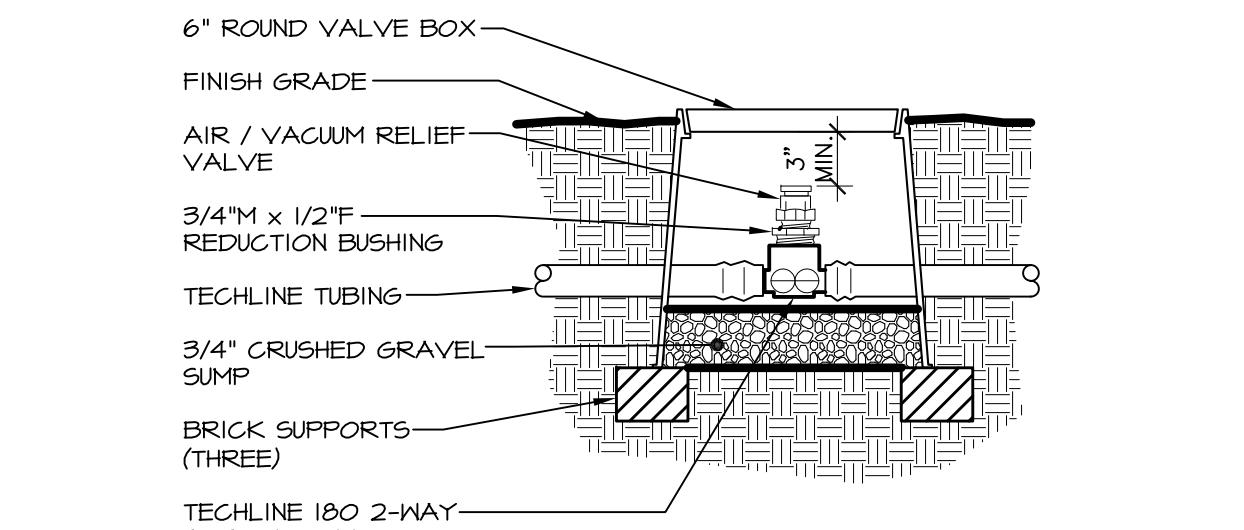
9 TECHLINE TUBING & ASSESORY FOR TREE PLANTING



10 TECHLINE TRIANGULAR LAYOUT



11 FLUSHING VALVE



12 AIR / VACUUM RELIEF VALVE

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Garden City, Idaho 83714

PROJECT INFORMATION:



City of Boise Fire Station 4

8485 W. Ustick Rd. Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION
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PROJECT PHASE Project Status

PROJECT NUMBER	15043
PROJECT MANAGER	R. TeBeau
PROJECT ARCHITECT	R. TeBeau
DESIGN	JB
DRAWN BY	JB, LP, JR, BS

SHEET NAME:

IRRIGATION DETAILS

SHEET NUMBER:

L1.86

1.29.16

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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. XXX

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PROJECT INFORMATION:



City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

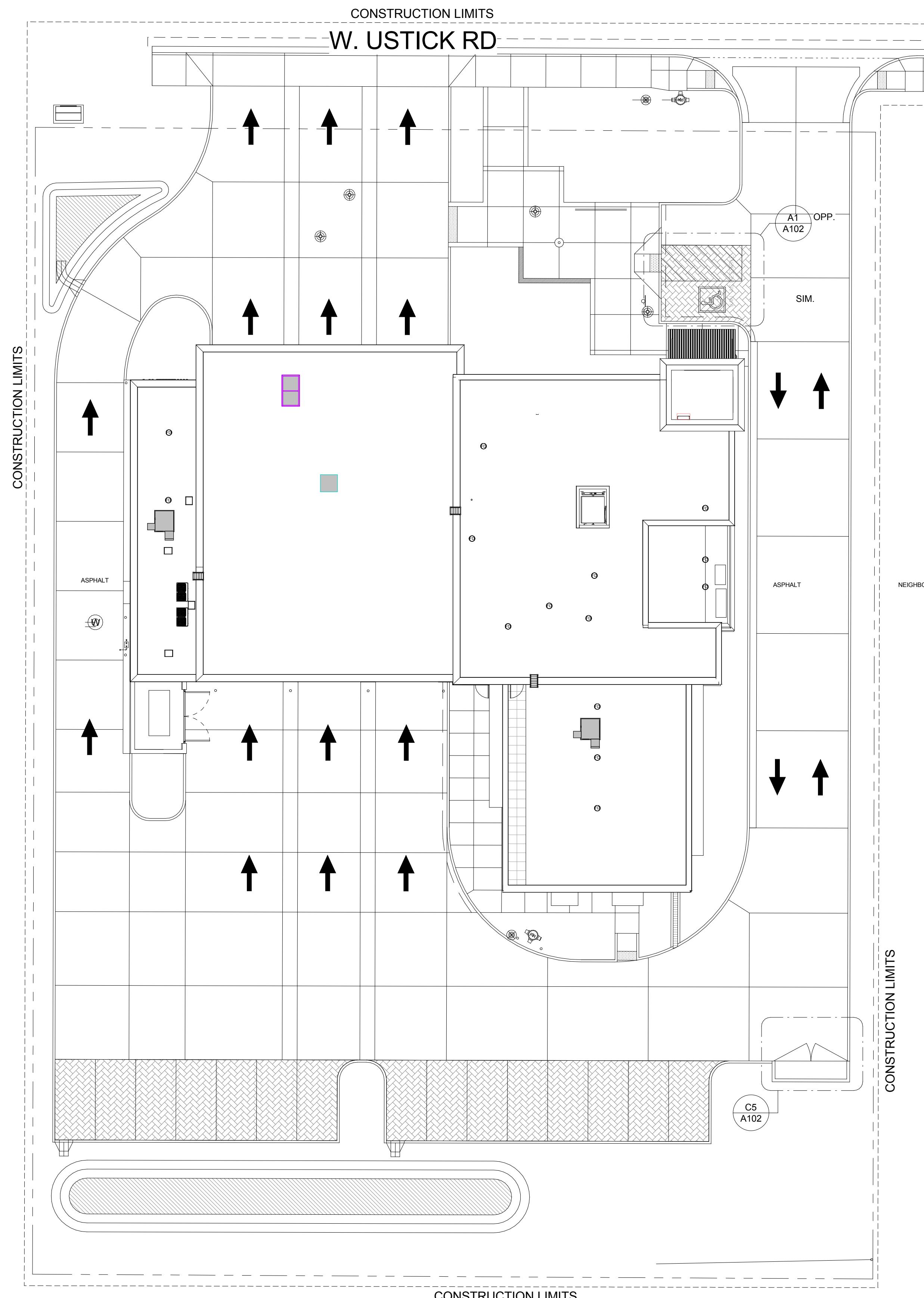
PROJECT PHASE | 75% CD'S

PROJECT PHASE	75% CD'S
PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	J. Chatfield, C. Clay, R. Stewart

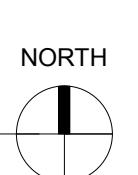
SHEET NAME:

SITE PLAN

SHEET NUMBER:

A101

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



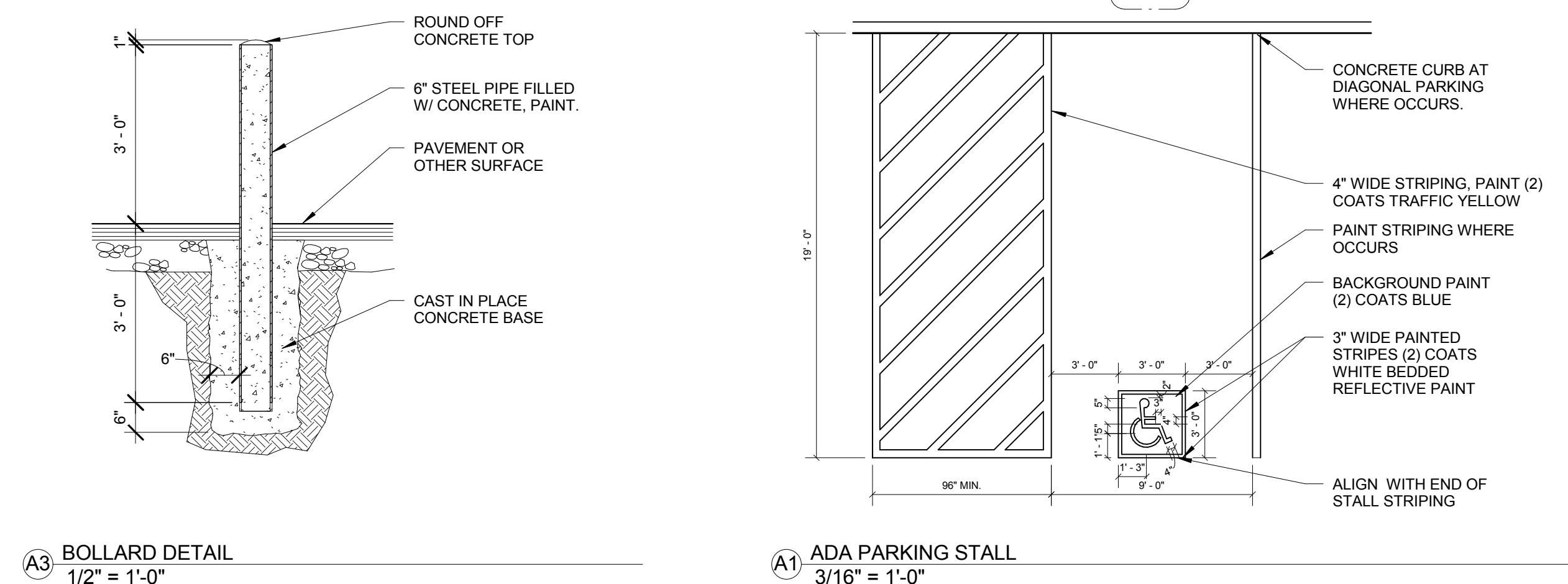
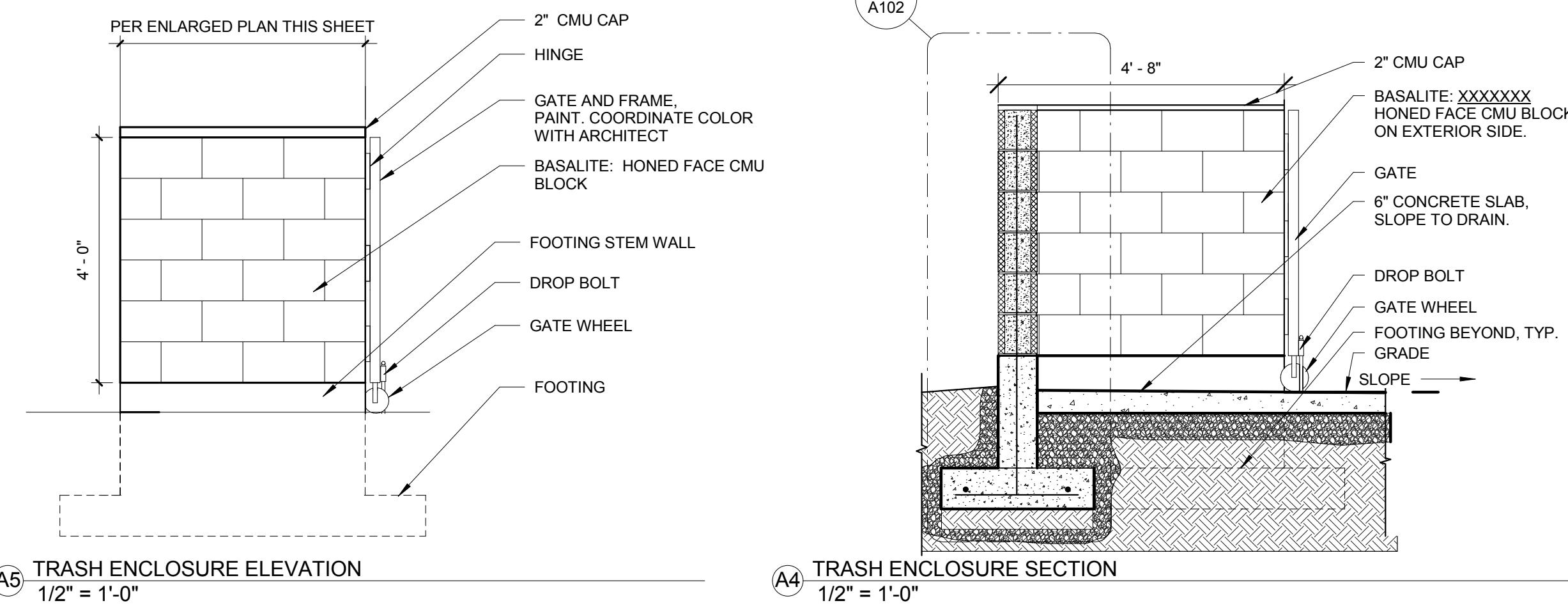
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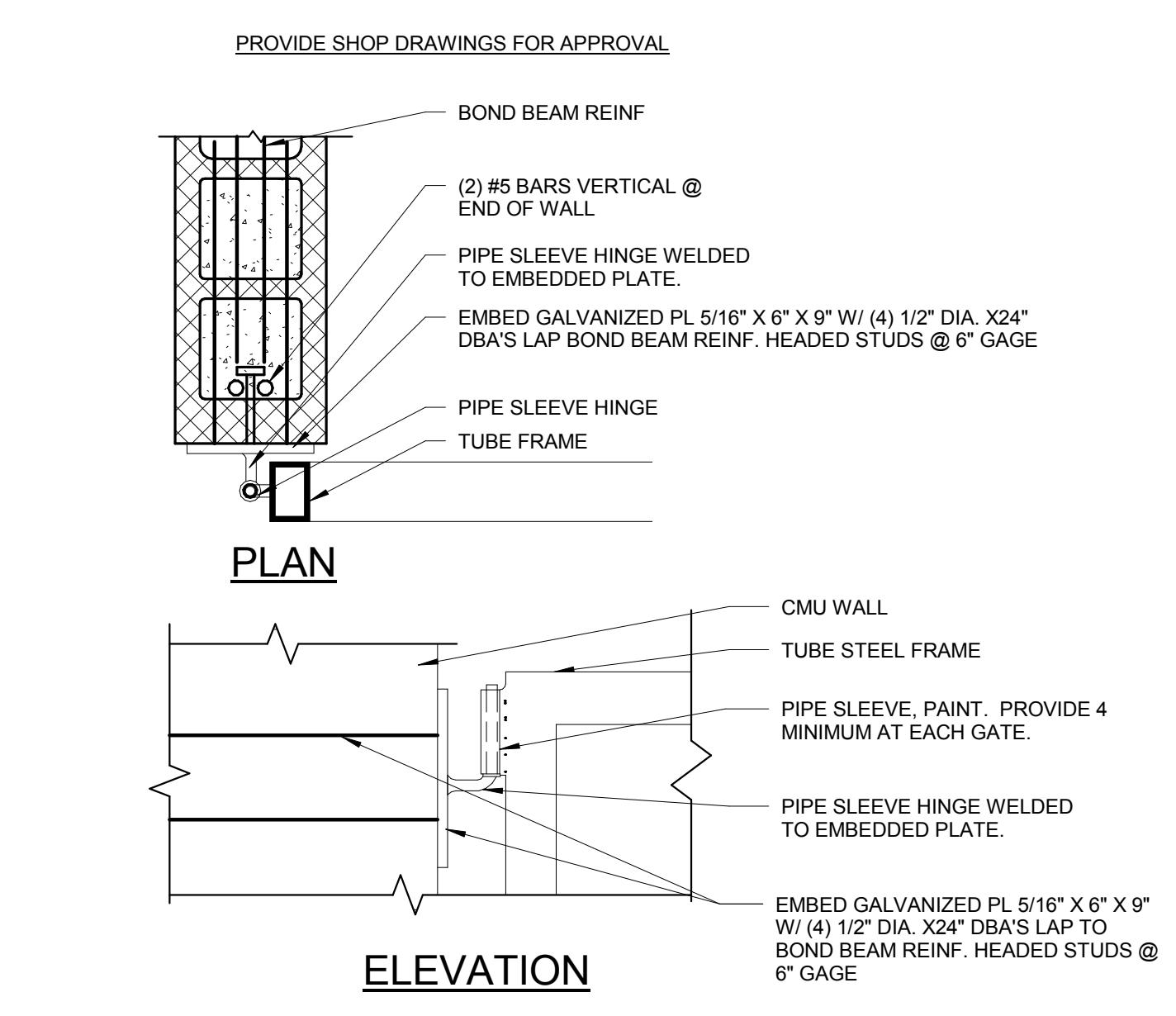
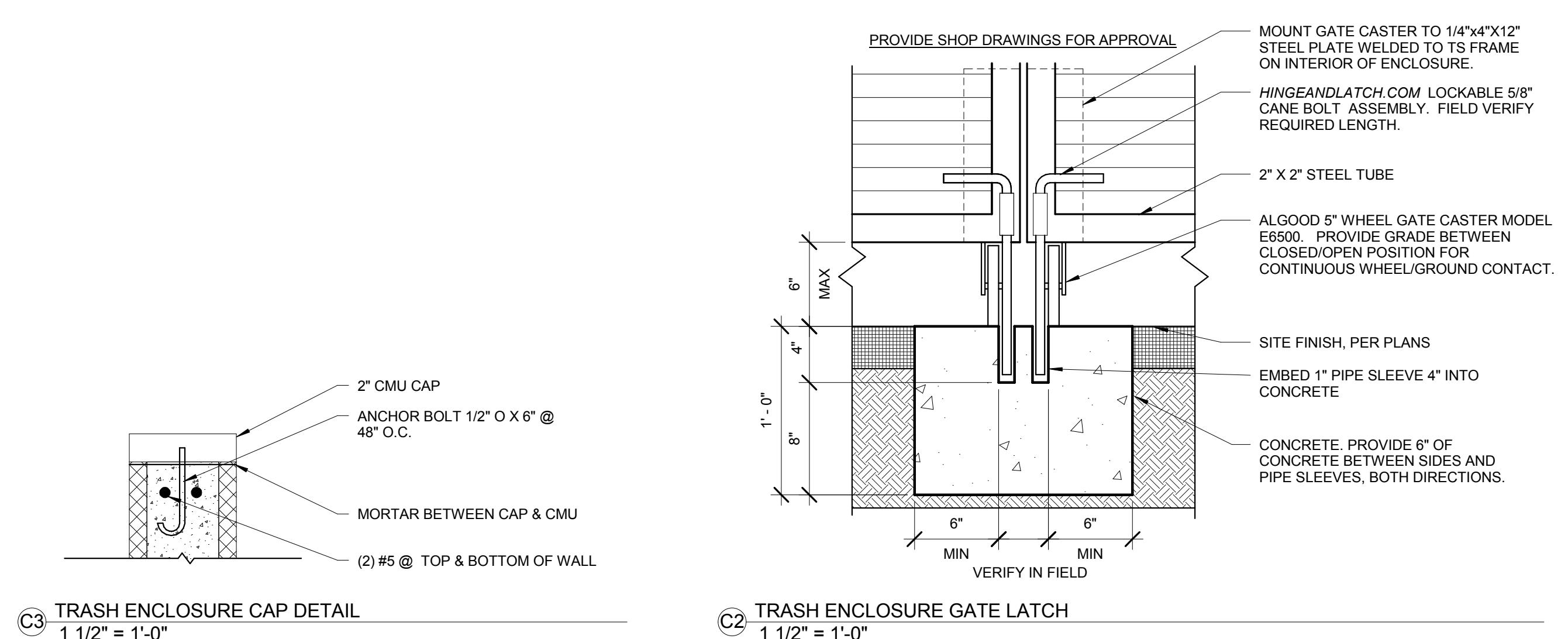
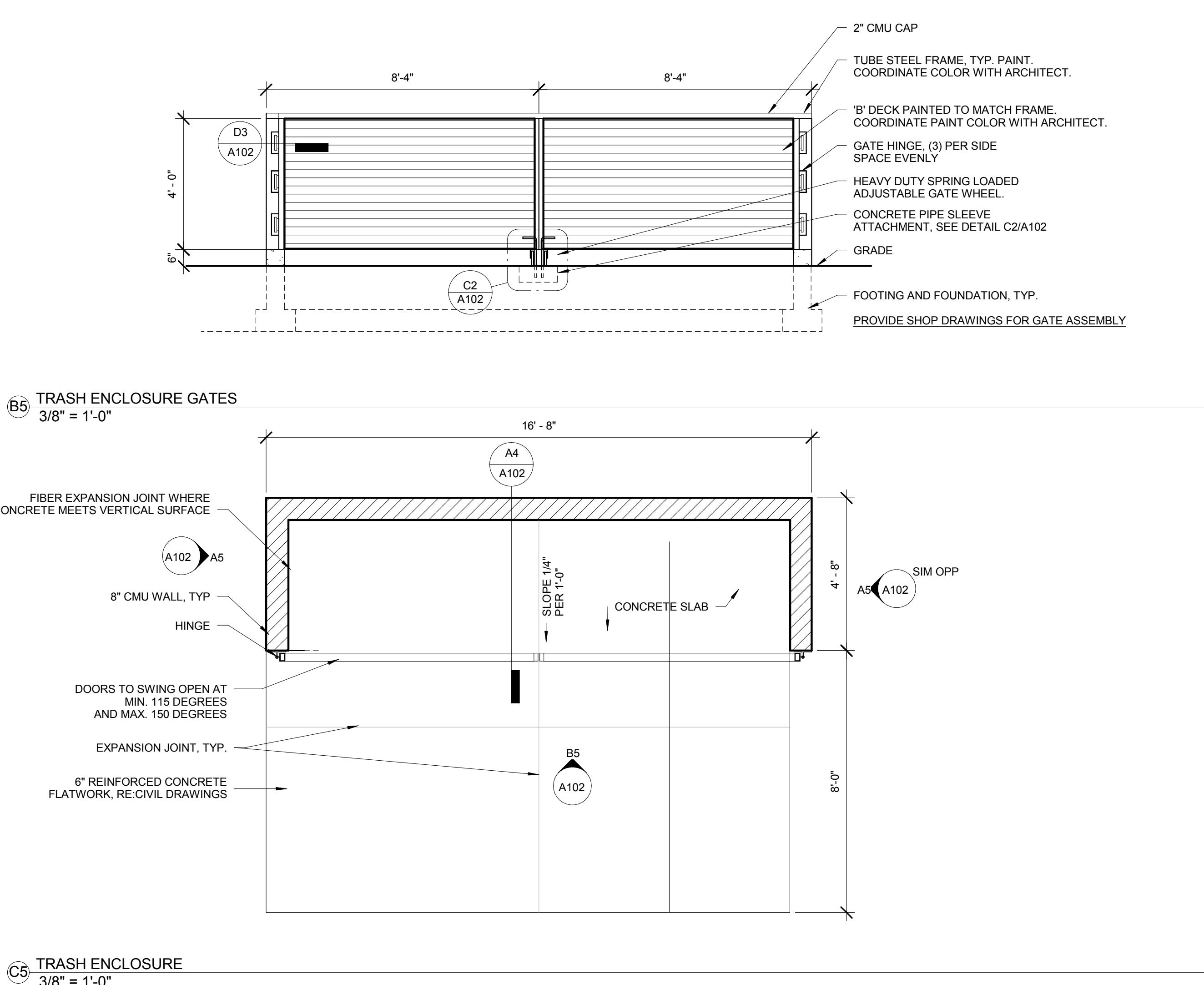
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D3 TRASH ENCLOSURE HINGE DETAIL
1 1/2" = 1'-0"

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

CONSULTANT:

PROJECT INFORMATION:



City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

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

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

PROJECT NUMBER:

15-27

PROJECT MANAGER:

J. Chatfield

PROJECT ARCHITECT:

J. Chatfield

DESIGN:

J. Chatfield

DRAWN BY:

J. Chatfield, C. Clay, R. Stewart

SHEET NAME:

SITE PLAN DETAILS

SHEET NUMBER:

A102

02.02.16

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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. 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. PROVIDE SOLID BLOCKING IN WALLS FOR ALL WALL HUNG EQUIPMENT. BLOCKING TO MEET OR EXCEED MANUFACTURER'S RECOMMENDATIONS. FASTEN EQUIPMENT TO 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.
- G. CAULK ALL COUNTERTOPS, BACKSPLASHES AND CABINETS AT LOCATIONS WHERE THEY MEET WALLS. SEAL ALL CUT-OUTS IN COUNTERTOPS.
- H. MATCH FINISHED WALL THICKNESS WHERE NEW WALLS OCCUR IN LINE WITH EXISTING WALLS.
- I. SEAL AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT PENETRATIONS AT WALLS. AT RATED WALLS USE A U.L. APPROVED FIRESTOPPING 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'.
- M. SLOPE CONCRETE SLAB @ 1/8" PER FOOT TO FLOOR DRAIN. RE: PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. PROVIDE SLOPED FLOORS IN THE FOLLOWING ROOMS: 104, 106, 108, 118, 119, 120, 121, 127, 128, 136 & 137.

KEY NOTES:

1. XXX

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CONSULTANT:

PROJECT INFORMATION:



City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

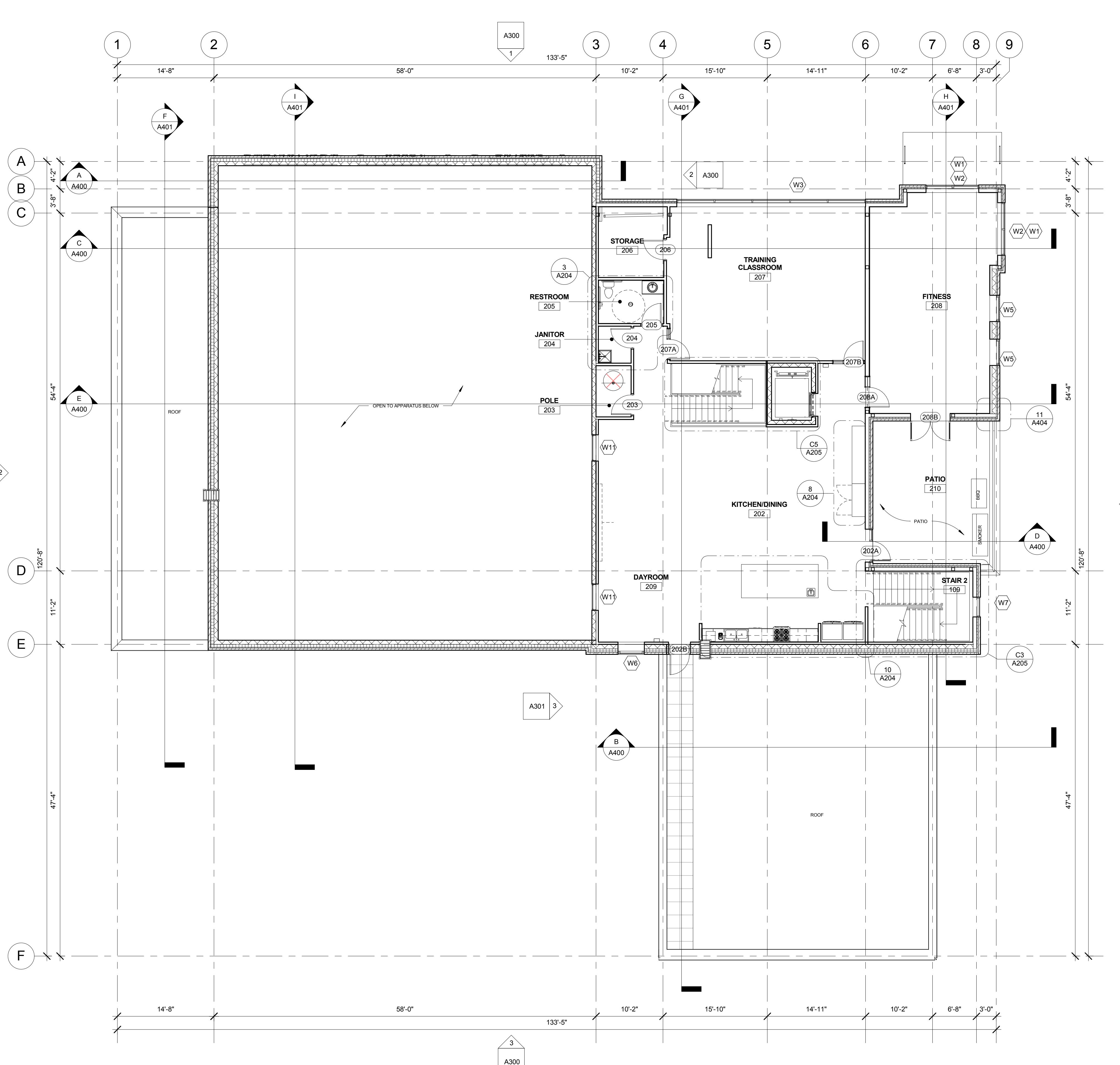
PROJECT PHASE 75% CD'S

PROJECT NUMBER 15-27
PROJECT MANAGER J. Chatfield
PROJECT ARCHITECT J. Chatfield
DESIGN J. Chatfield
DRAWN BY J. Chatfield, C. Clay, R. Stewart

SHEET NAME:

2ND FLOOR PLAN

SHEET NUMBER:

A201

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.
- F. SEE SHEET A600 & A601 FOR INTERIOR AND EXTERIOR WALL TYPES AND DETAILS.

KEY NOTES:

1. ALIGN FINISHED WALL TIGHT TO STRINGER.
2. AT COFFEE BAR FRAME WALLS TO CREATE A NOOK FOR CASEWORK. SEE ELEVATIONS AND DETAILS FOR CASEWORK SIZE.
3. NO METAL STUD WALL OR GYPSUM BOARD FURRING ON WALL TYPE D IN APP. BAY.

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CONSULTANT:

PROJECT INFORMATION:



City of Boise Fire Station 4

8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

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PROJECT PHASE 75% CD'S

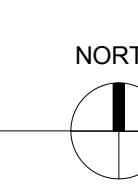
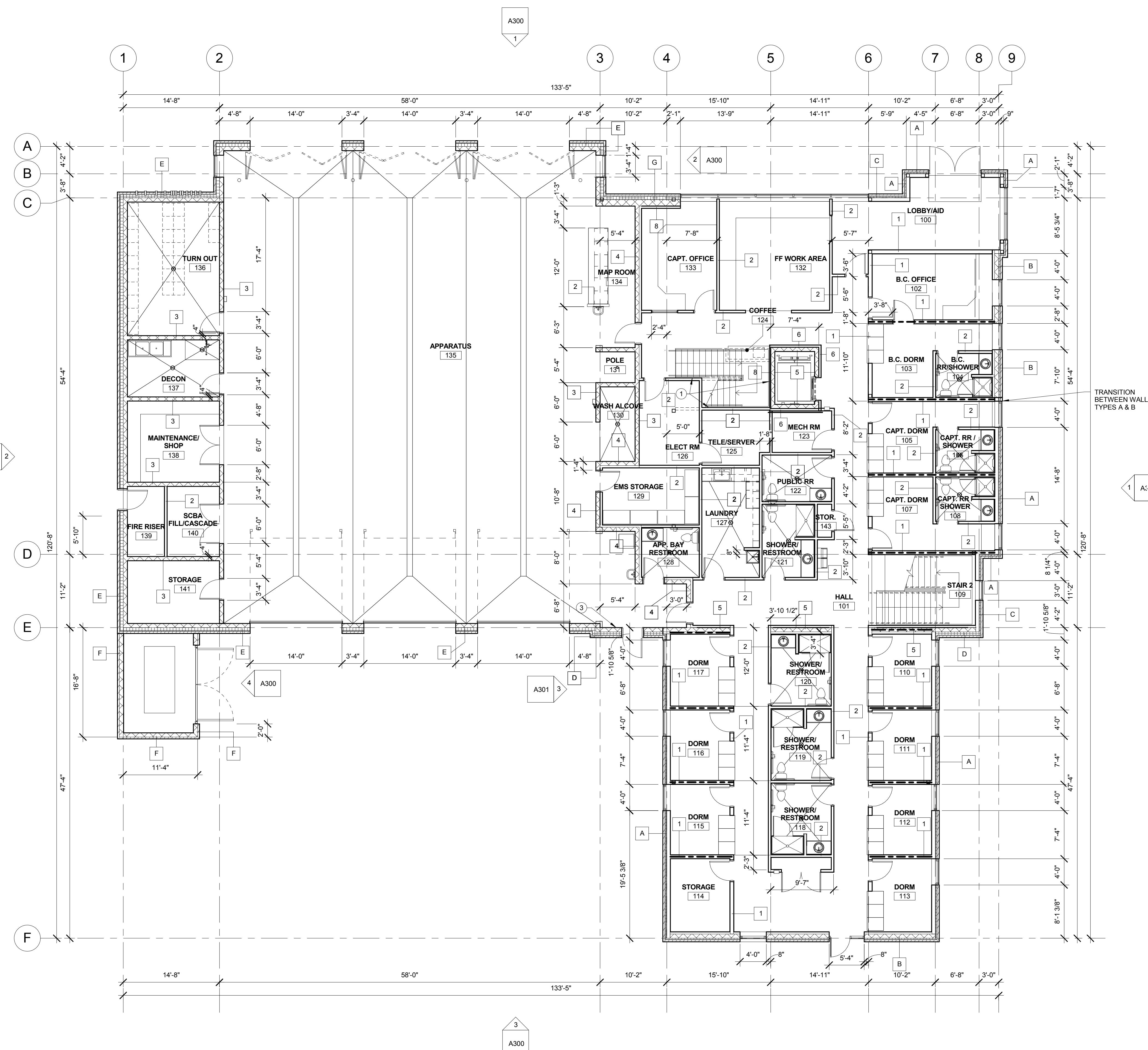
PROJECT NUMBER 15-27
 PROJECT MANAGER J. Chatfield
 PROJECT ARCHITECT J. Chatfield
 DESIGN J. Chatfield
 DRAWN BY J. Chatfield, C. Clay, R. Stewart

SHEET NAME:

1ST FLOOR
DIMENSION PLAN

A202

02.02.16



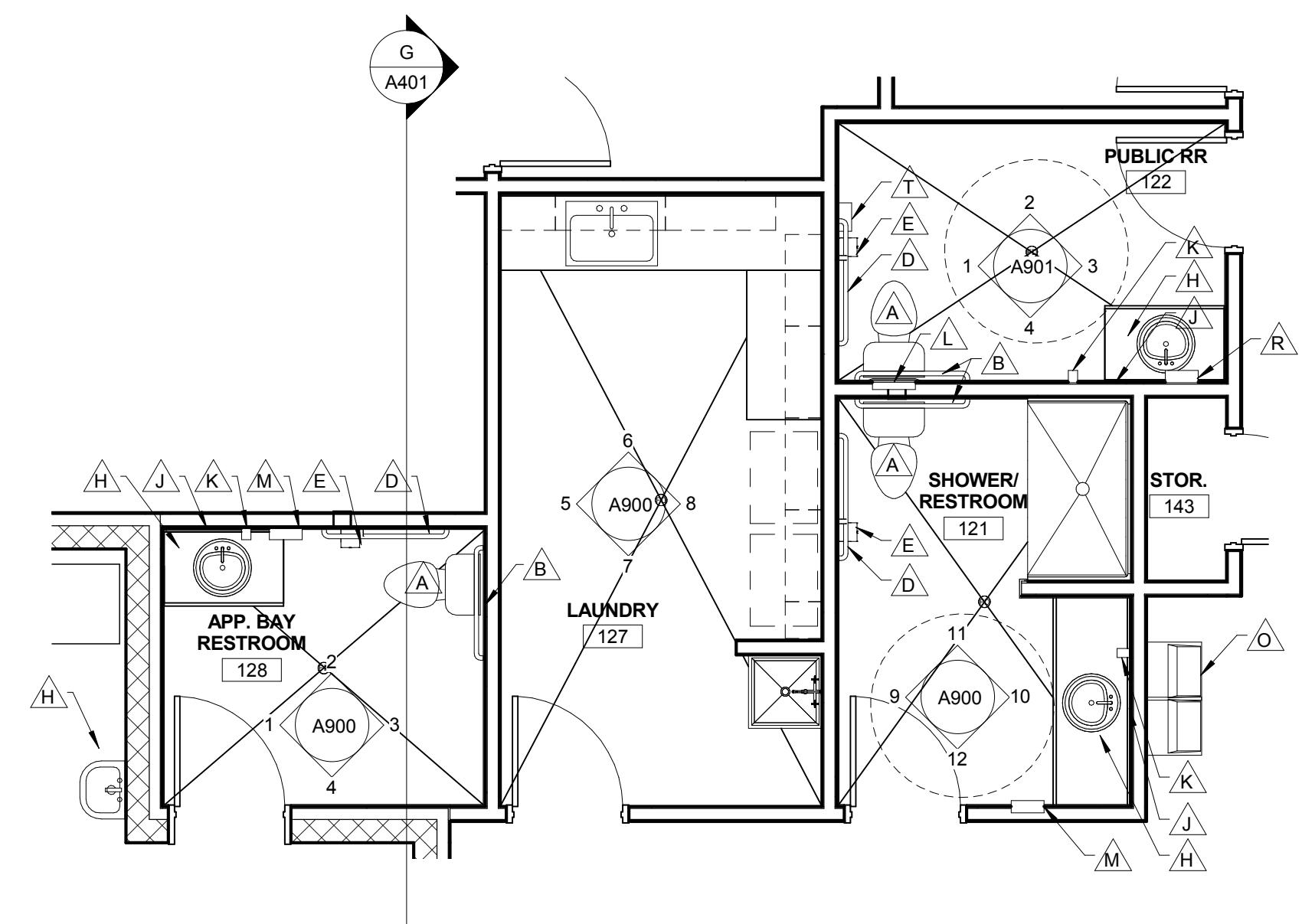
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CONSULTANT:

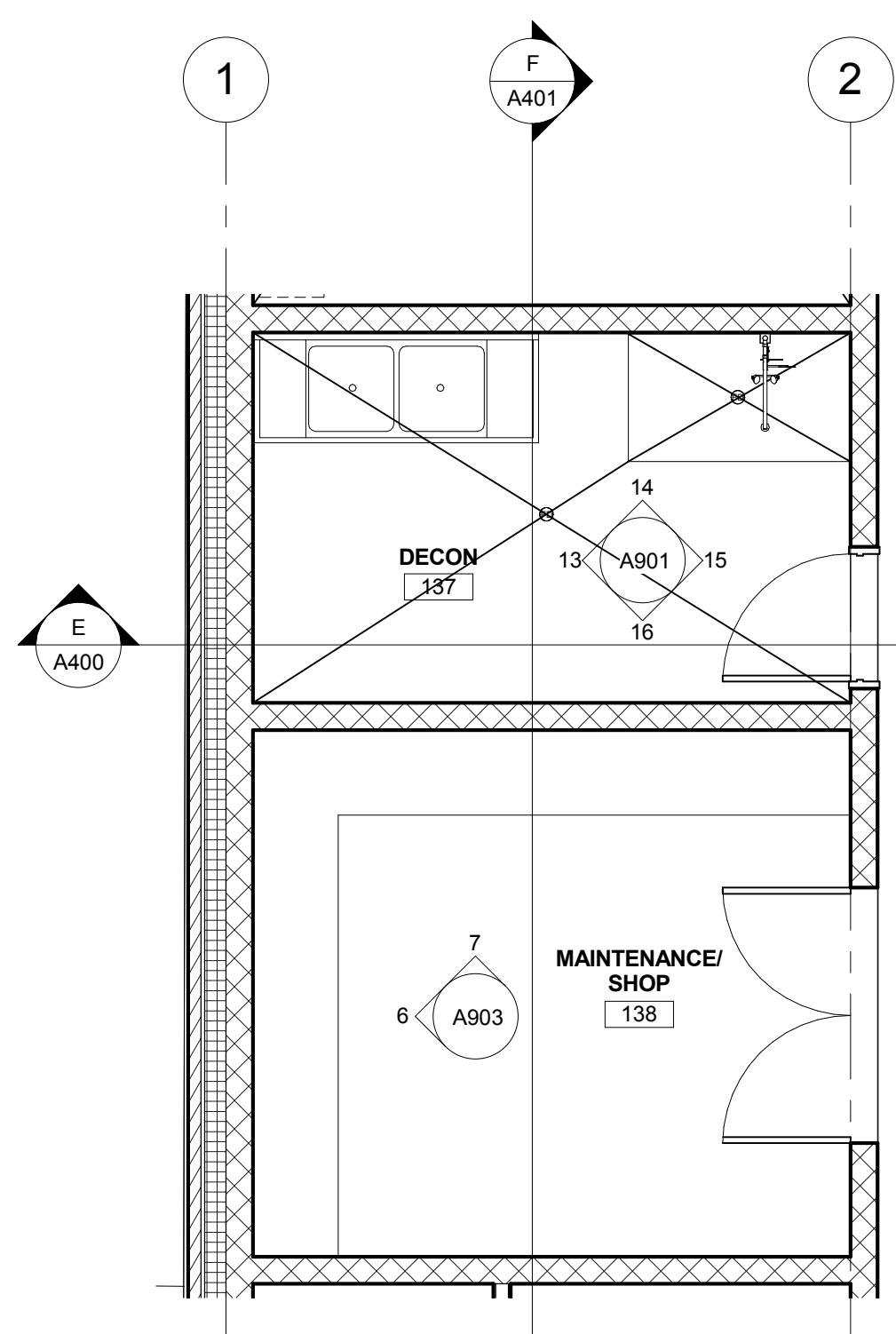
GENERAL NOTES ENLARGED PLANS:

- A. REFERENCE SHEET A900 FOR PLUMBING FIXTURE MOUNTING HEIGHTS.



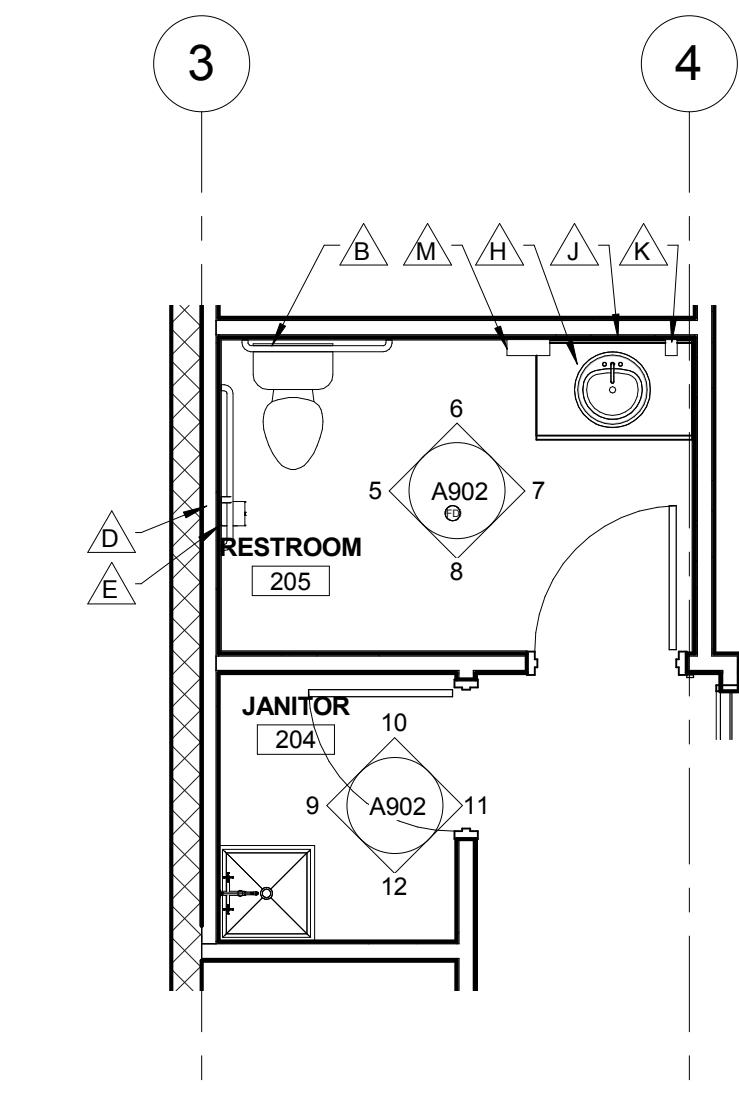
① ENLARGED FLOOR PLAN 1

1/4" = 1'-0"

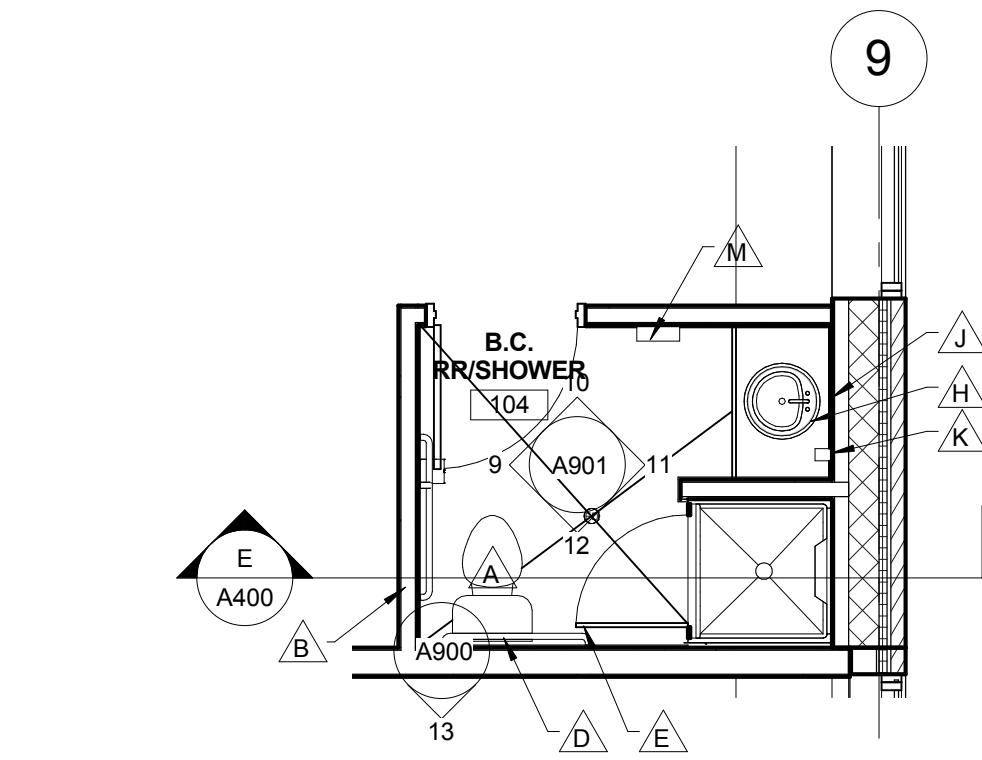


② ENLARGED FLOOR PLAN 2

1/4" = 1'-0"

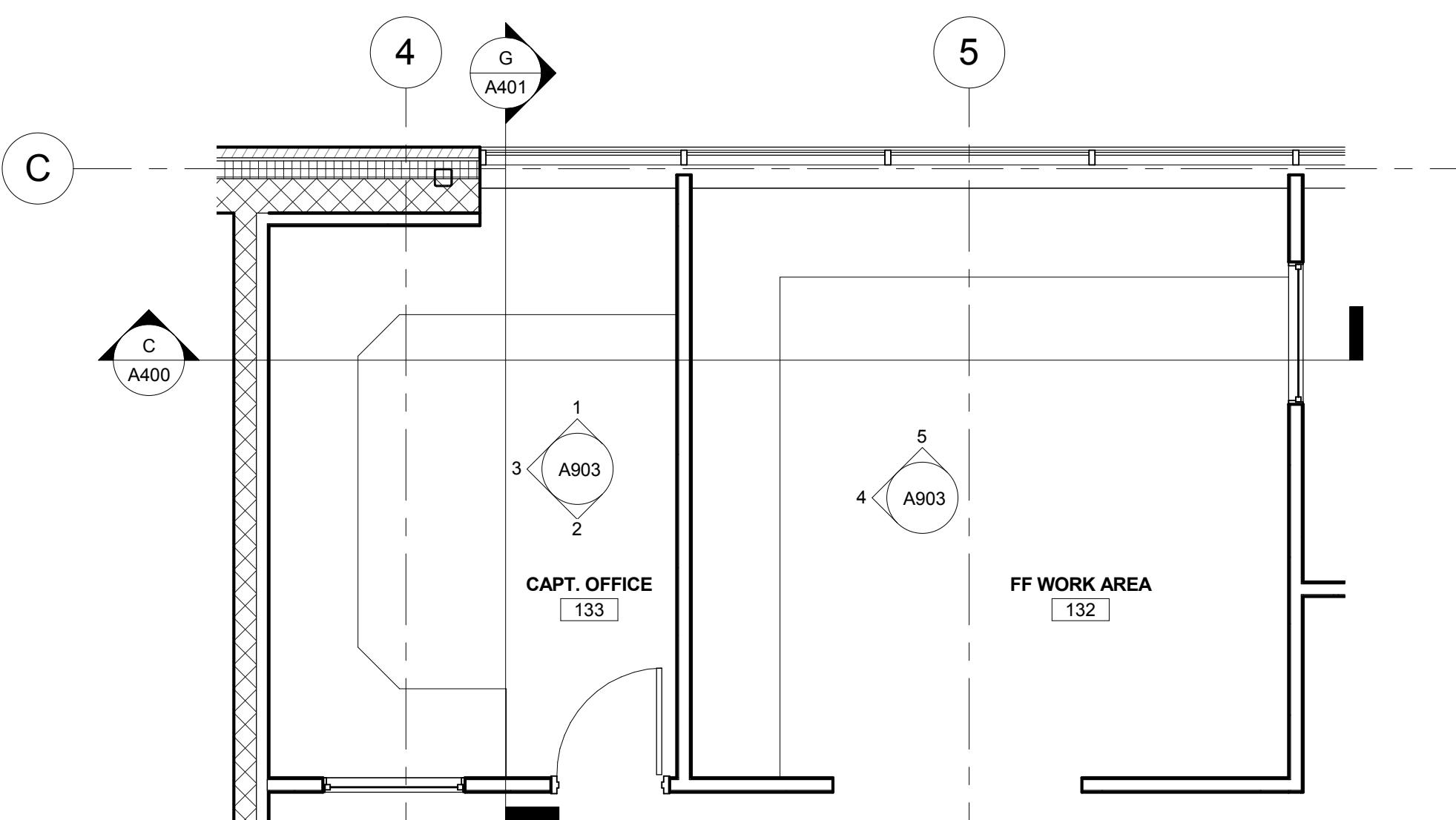


③ ENLARGED FLOOR PLAN 3



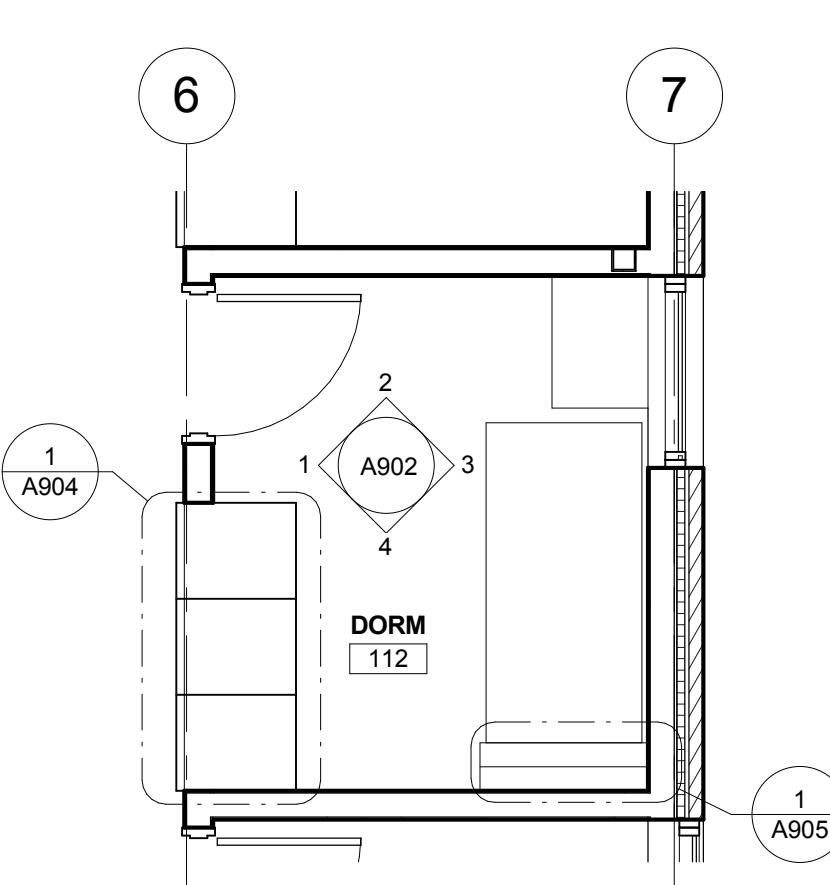
④ ENLARGED FLOOR PLAN 4

1/4" = 1'-0"



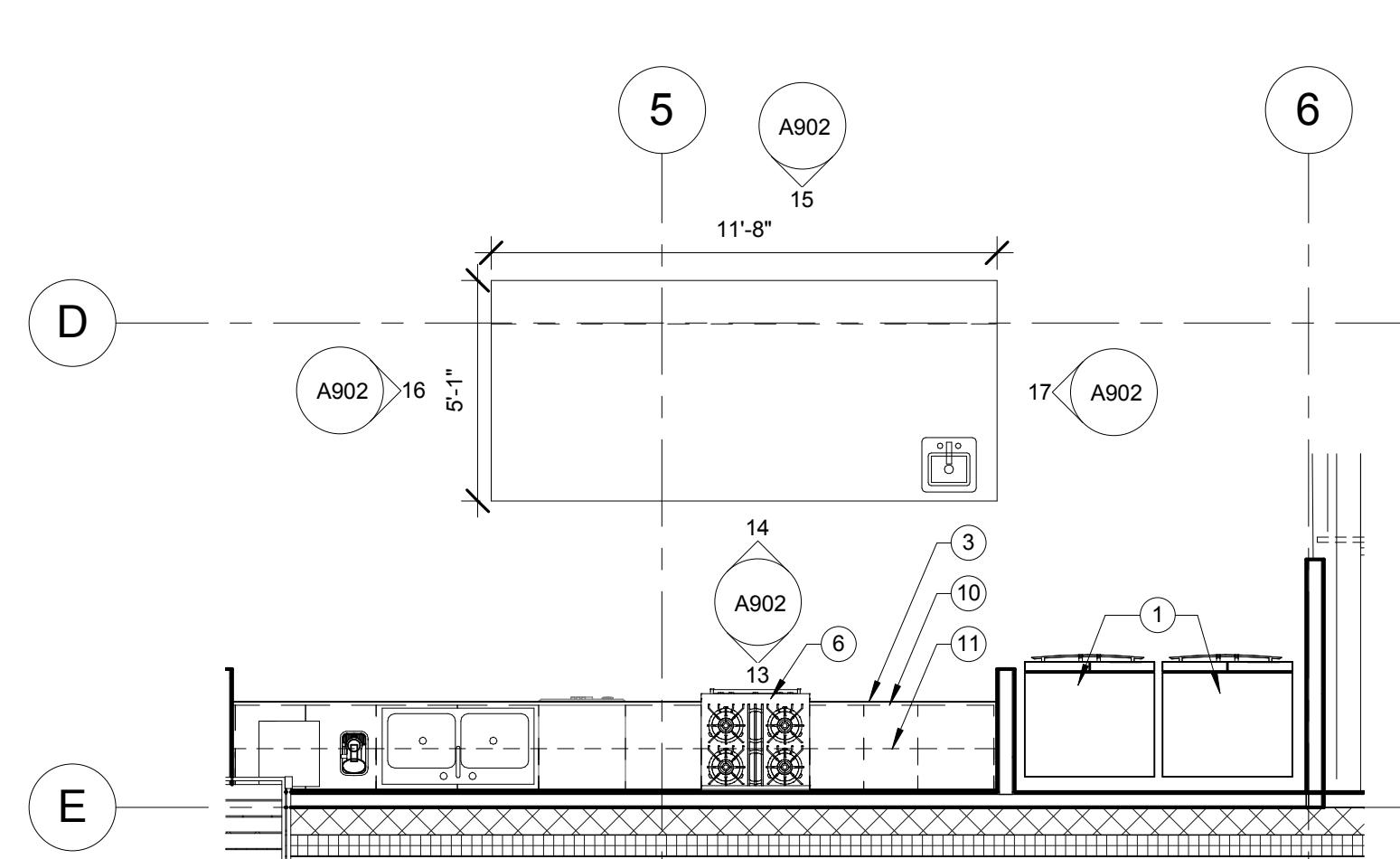
⑤ ENLARGED FLOOR PLAN 5

1/4" = 1'-0"



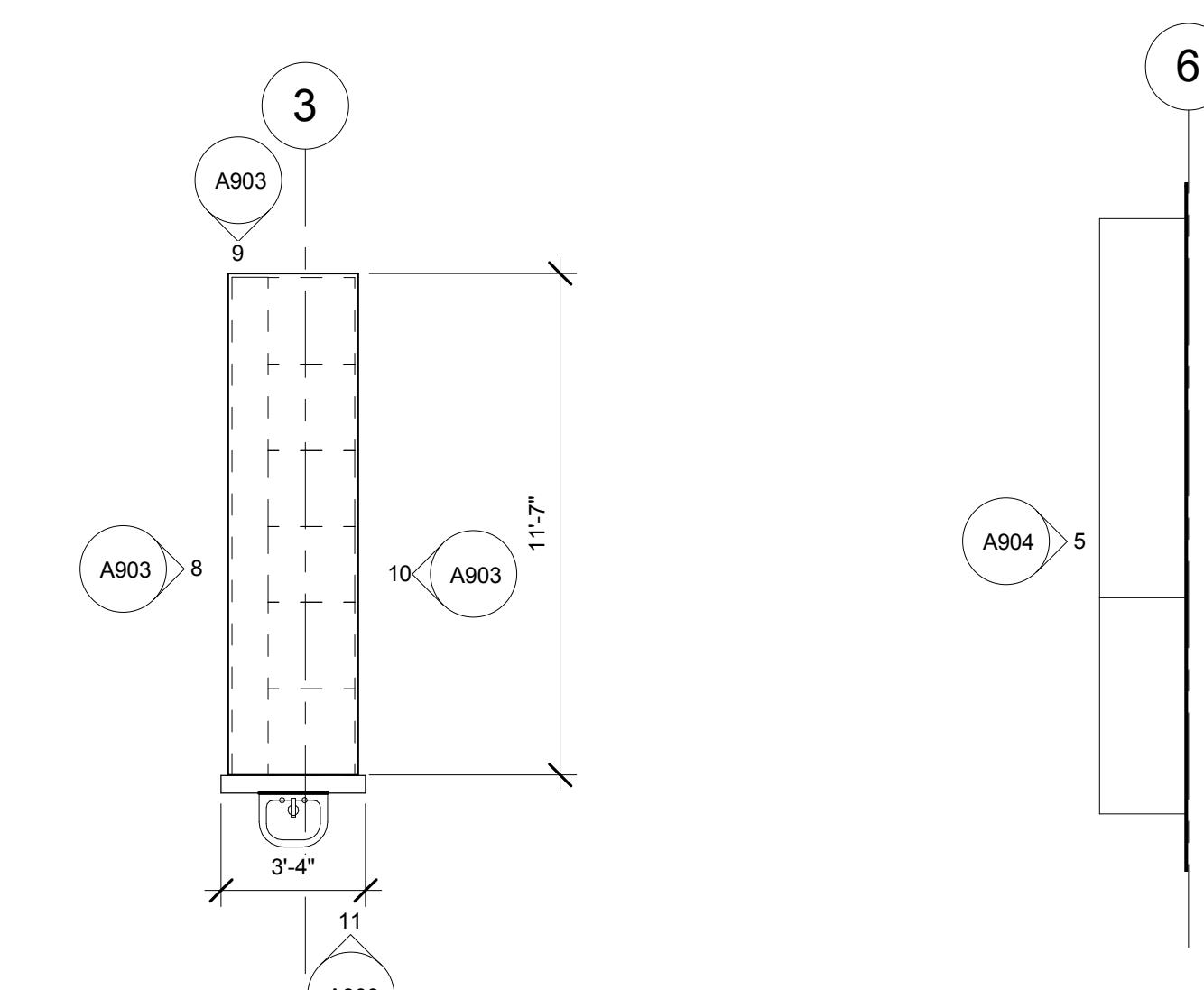
⑥ ENLARGED FLOOR PLAN 6

1/4" = 1'-0"



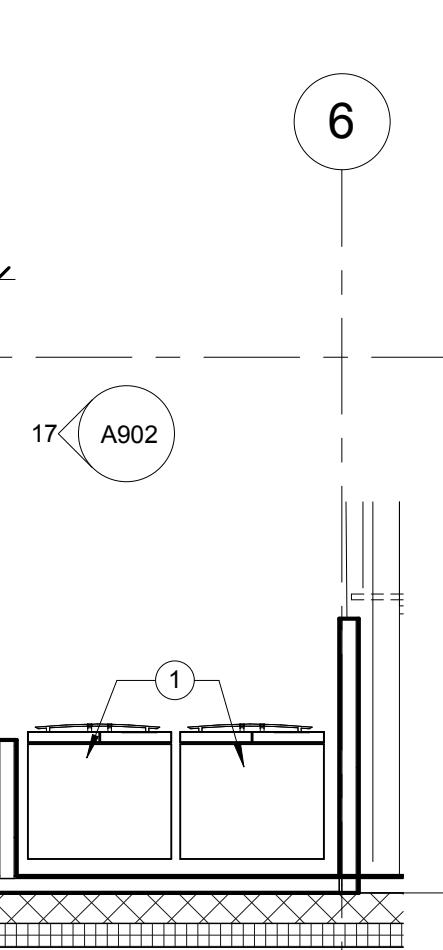
⑦ ENLARGED FLOOR PLAN 7

1/4" = 1'-0"



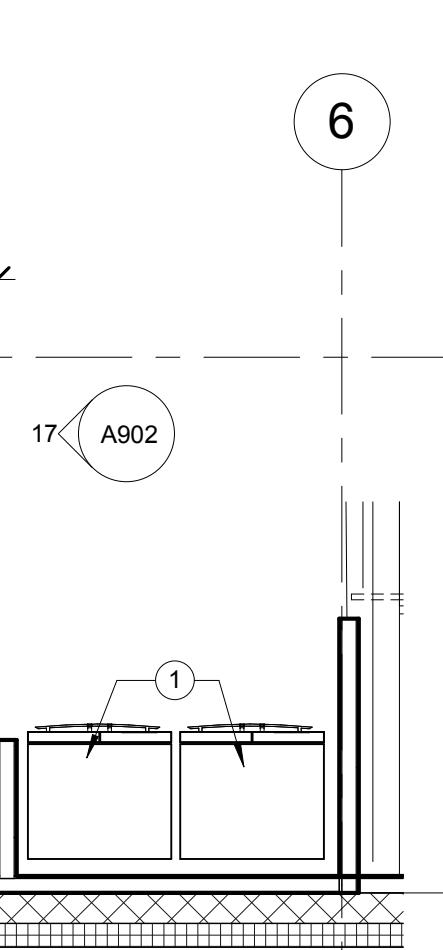
⑧ ENLARGED FLOOR PLAN 8

1/4" = 1'-0"



⑨ ENLARGED FLOOR PLAN 9

1/4" = 1'-0"



⑩ ENLARGED FLOOR PLAN 10

1/4" = 1'-0"

KEY NOTES:

1. REFRIGERATOR, AS SPECIFIED.
2. DISHWASHER, AS SPECIFIED.
3. 25" DP. STAINLESS STEEL CTOP W/ INTEGRAL 42" DOUBLE BOWL SINK.
4. COFFEE MAKER, BY OWNER.
5. COUNTERTOP MICROWAVE, BY OWNER.
6. 30" GAS RANGE/STOVE, AS SPECIFIED.
7. 30" UNDER CAB, VENT HOOD.
8. 15" ICE MAKER, AS SPECIFIED.
9. STAINLESS STEEL CTOP W/ INTEGRAL BAR SINK, AS SPECIFIED.
10. P-LAM BASE CABINETS
11. P-LAM WALL CABINETS
- 12.

ENLARGED PLANS

SHEET NUMBER:

A204

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CONSULTANT:



City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE	75% CD'S
PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	J. Chatfield, C. Clay, R. Stewart

SHEET NAME:

**ENLARGED STAIR
PLANS AND DETAILS**

SHEET NUMBER:

A205



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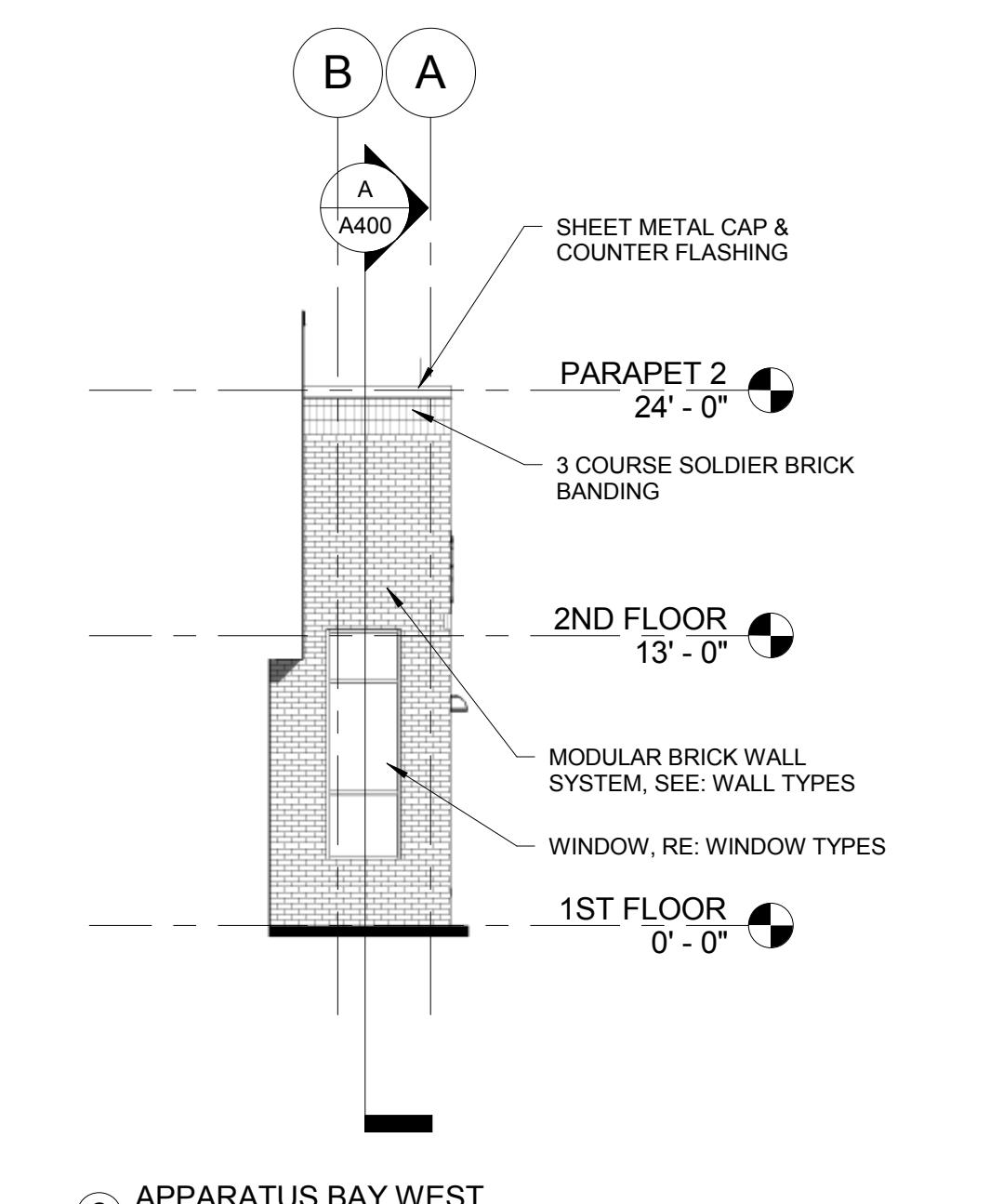
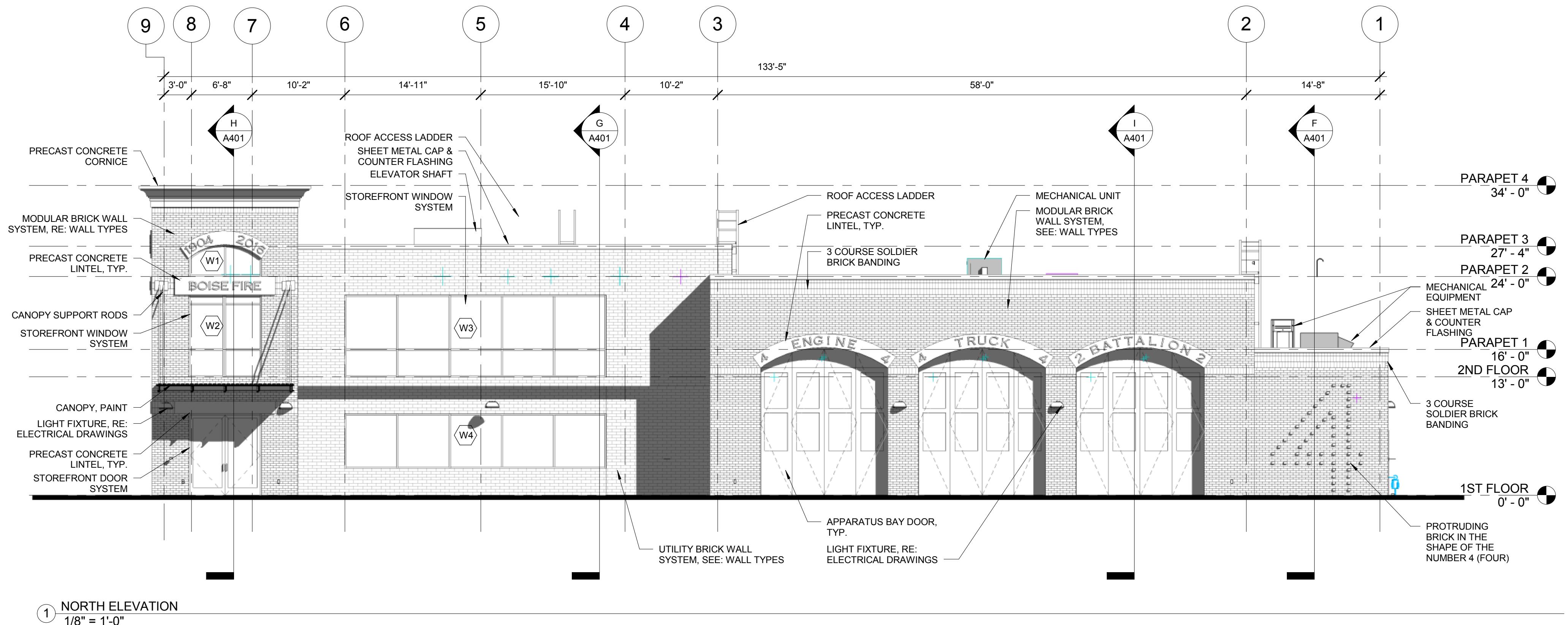
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GENERAL NOTES EXT. ELEVATIONS:

- 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.
- G. UNLESS NOTED OTHERWISE, USE BASF MASTERSEAL NP 150 FOR SEALANT AT ABOVE GRADE EXTERIOR JOINTS. COORDINATE COLOR W/ ARCHITECT. FOR BELOW GRADE APPLICATIONS USE DEEF SWELLSSEAL WA.
- H. INSTALL FENESTRATION PRODUCTS SUCH AS EXTERIOR WINDOWS, DOORS AND SKYLIGHTS, PER GUIDELINES ESTABLISHED IN ASTM E 2112-01. REFERENCE GUIDE FOR INSTALLATION DETAILS AND TECHNIQUES FOR WATER PROOFING AND WEATHER BARRIER INSTALLATION.

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CONSULTANT:



City of Boise Fire Station 4

8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE 75% CD'S

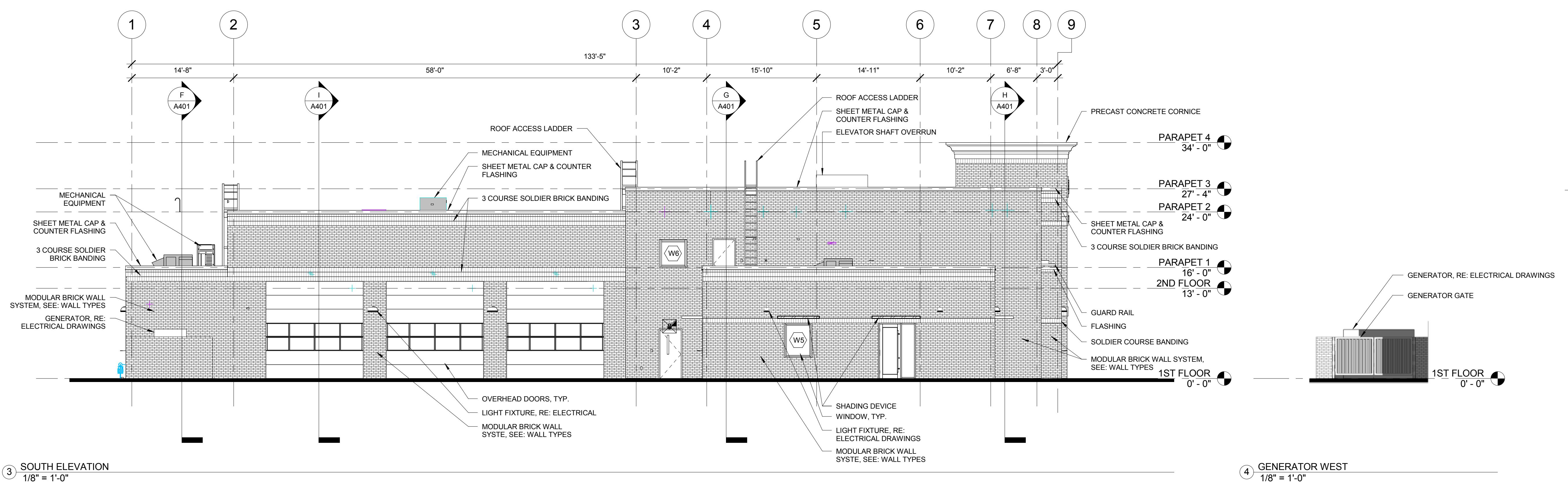
PROJECT PHASE	75% CD'S
PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	J. Chatfield, C. Clay, R. Stewart

SHEET NAME:

EXTERIOR ELEVATIONS

SHEET NUMBER:

A300





architecture • planning

TCA | 811 Roosevelt Way NE
Seattle, WA 98115 | (206) 522-3520

STAMP:

NOT FOR CONSTRUCTION

CONSULTANT:

PROJECT INFORMATION:

City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE: 75% CD'S

PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	J. Chatfield, C. Clay, R. Stewart

SHEET NAME:

EXTERIOR ELEVATIONS

SHEET NUMBER:

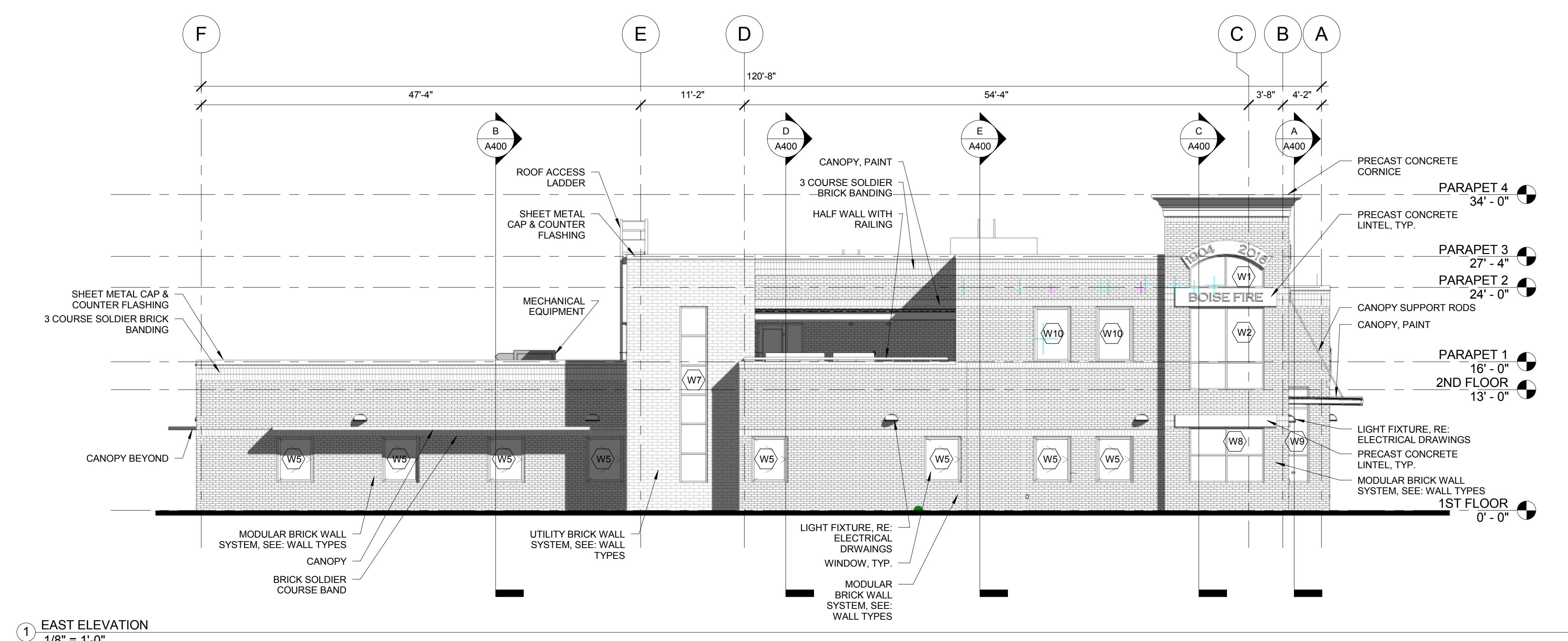
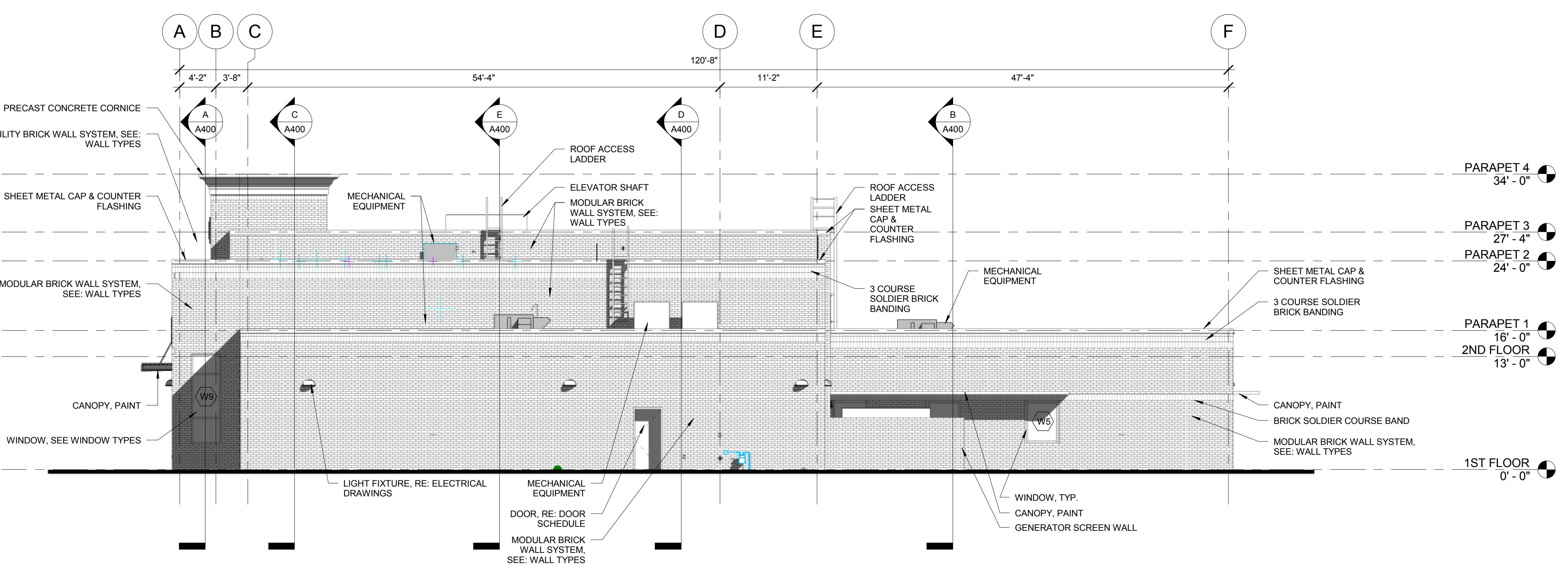
A301

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.G. UNLESS NOTED OTHERWISE, USE BASF MASTERSEAL NP 150
FOR SEALANT AT ABOVE GRADE EXTERIOR JOINTS.
COORDINATE COLOR W/ ARCHITECT. FOR BELOW GRADE
APPLICATIONS USE DE NEER SWELLSSEAL WA.H. INSTALL FENESTRATION PRODUCTS SUCH AS EXTERIOR
WINDOWS, DOORS, AND LIGHTS PER GUIDELINES
ESTABLISHED IN ASTM E 212-01 REFERENCE GUIDE FOR
INSTALLATION DETAIL AND TECHNIQUES FOR WATER
PROOFING AND WEATHER BARRIER INSTALLATION.① EAST ELEVATION
1/8" = 1'-0"② WEST ELEVATION
1/8" = 1'-0"③ SLEEPING WING EAST
1/8" = 1'-0"

NOT FOR CONSTRUCTION

CONSULTANT:

PROJECT INFORMATION:



City of Boise Fire Station 4

8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION
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PROJECT PHASE: 75% CD'S

PROJECT PHASE	75% CD'S
PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	J. Chatfield, C. Clay, R. Stewart

SHEET NAME:

BUILDING SECTIONS

SHEET NUMBER:

A400

NOT FOR CONSTRUCTION

CONSULTANT:



City of Boise Fire Station 4

8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

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PROJECT PHASE 75% CD'S

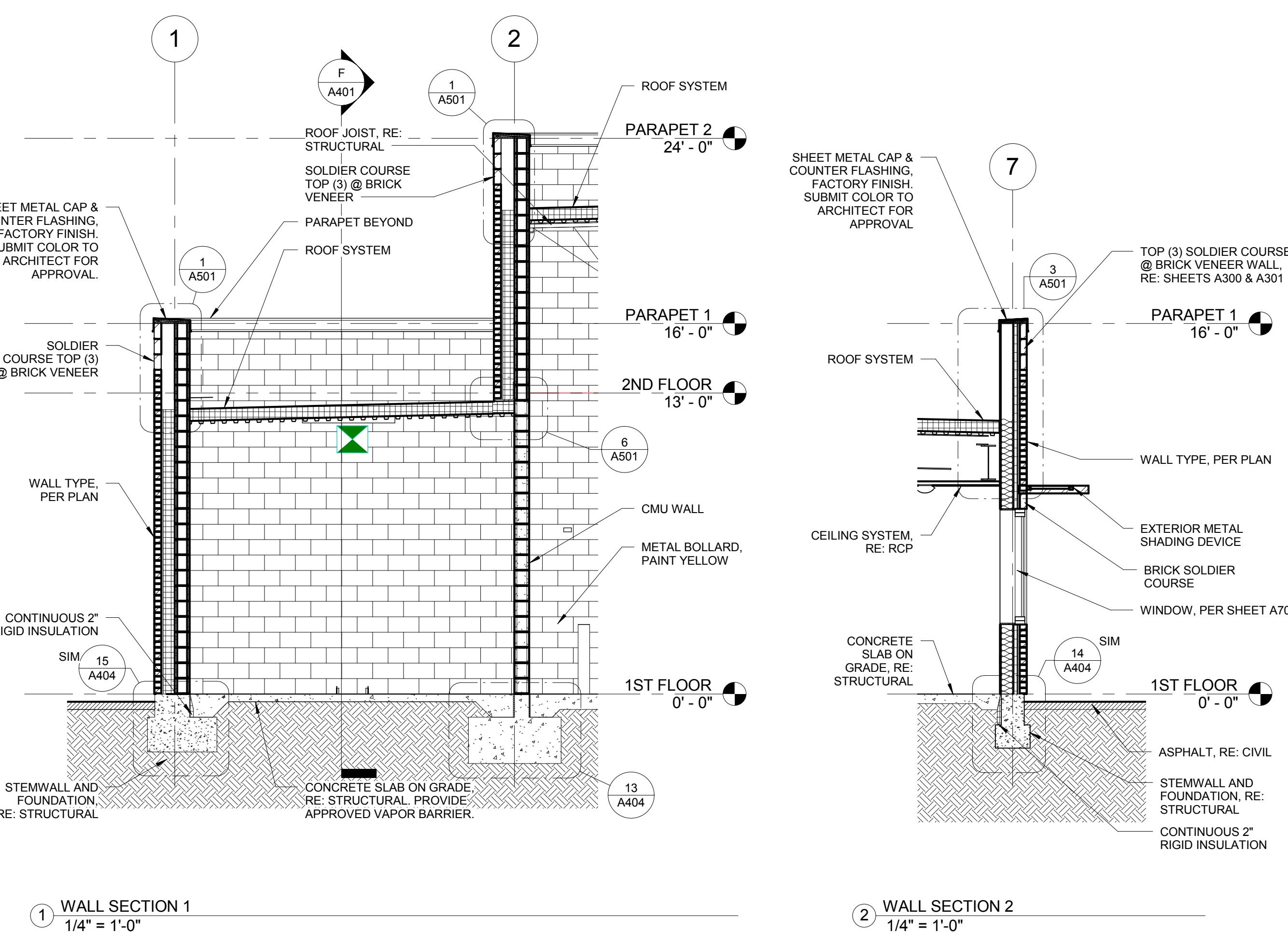
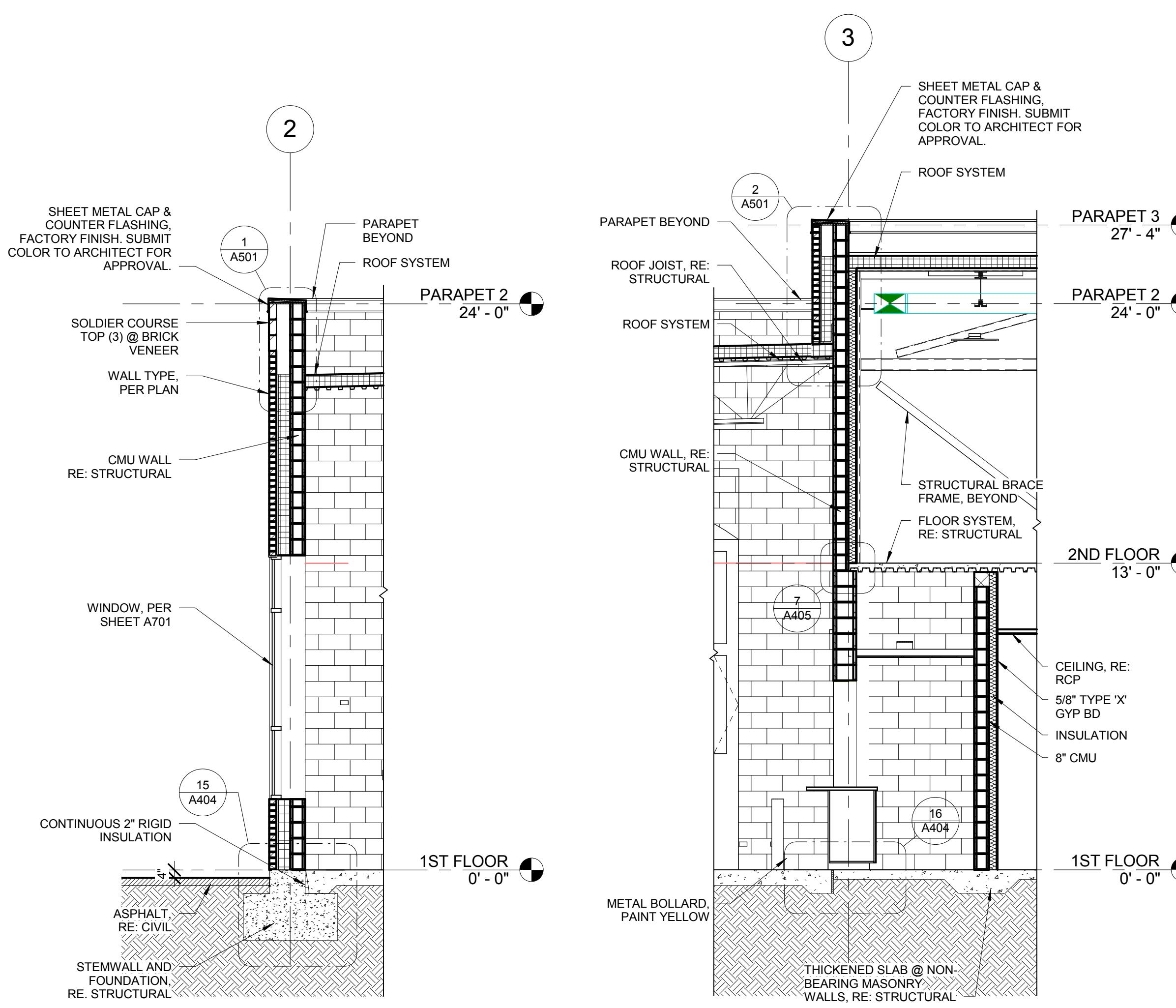
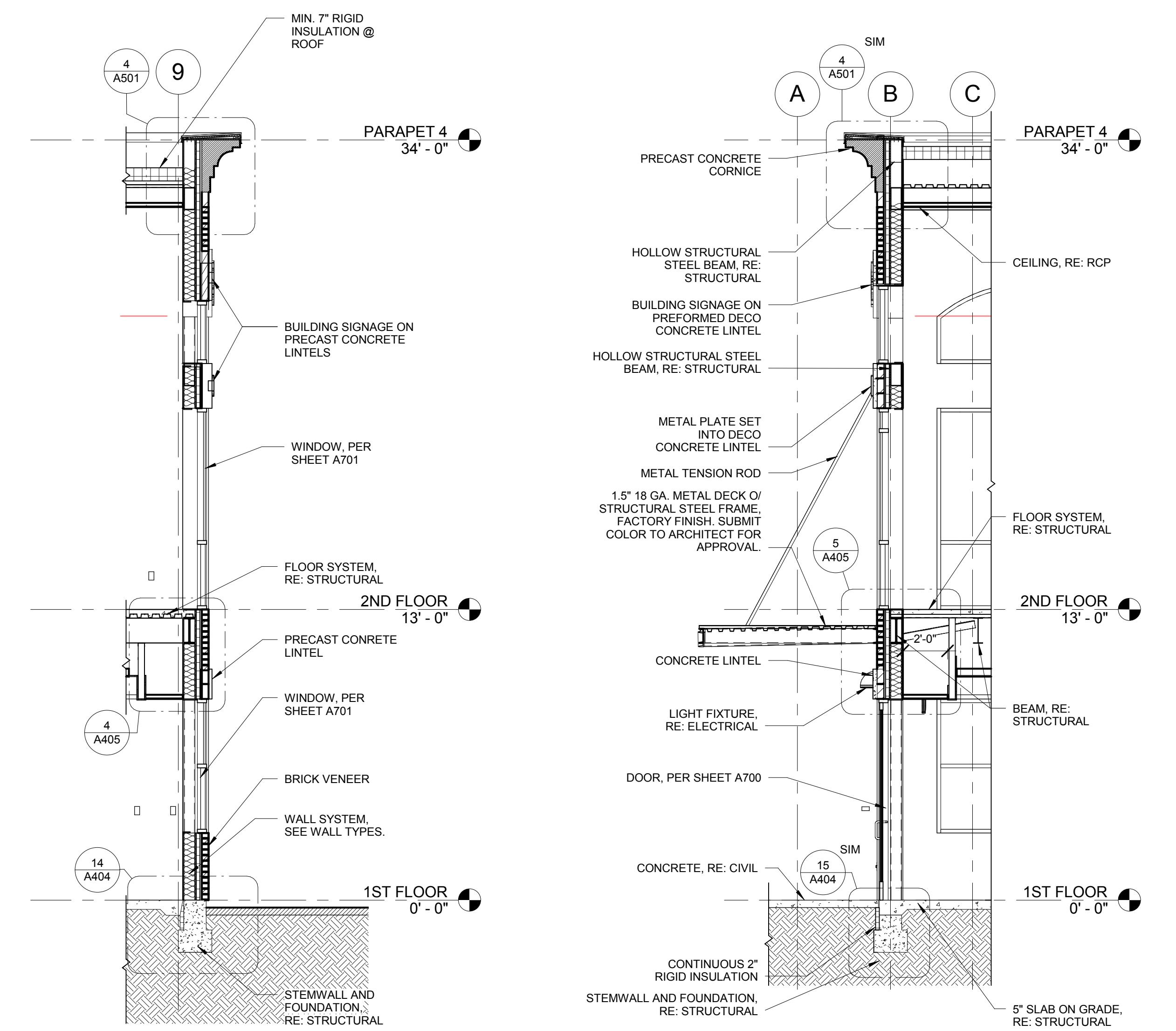
PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	J. Chatfield, C. Clay, R. Stewart

SHEET NAME:

WALL SECTIONS

A402

02.02.16

(1) WALL SECTION 1
1/4" = 1'-0"(2) WALL SECTION 2
1/4" = 1'-0"(3) WALL SECTION 3
1/4" = 1'-0"(4) WALL SECTION 4
1/4" = 1'-0"(5) WALL SECTION 5
1/4" = 1'-0"(6) WALL SECTION 6
1/4" = 1'-0"

NOT FOR CONSTRUCTION

CONSULTANT:

PROJECT INFORMATION:


City of Boise Fire Station 4
 8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

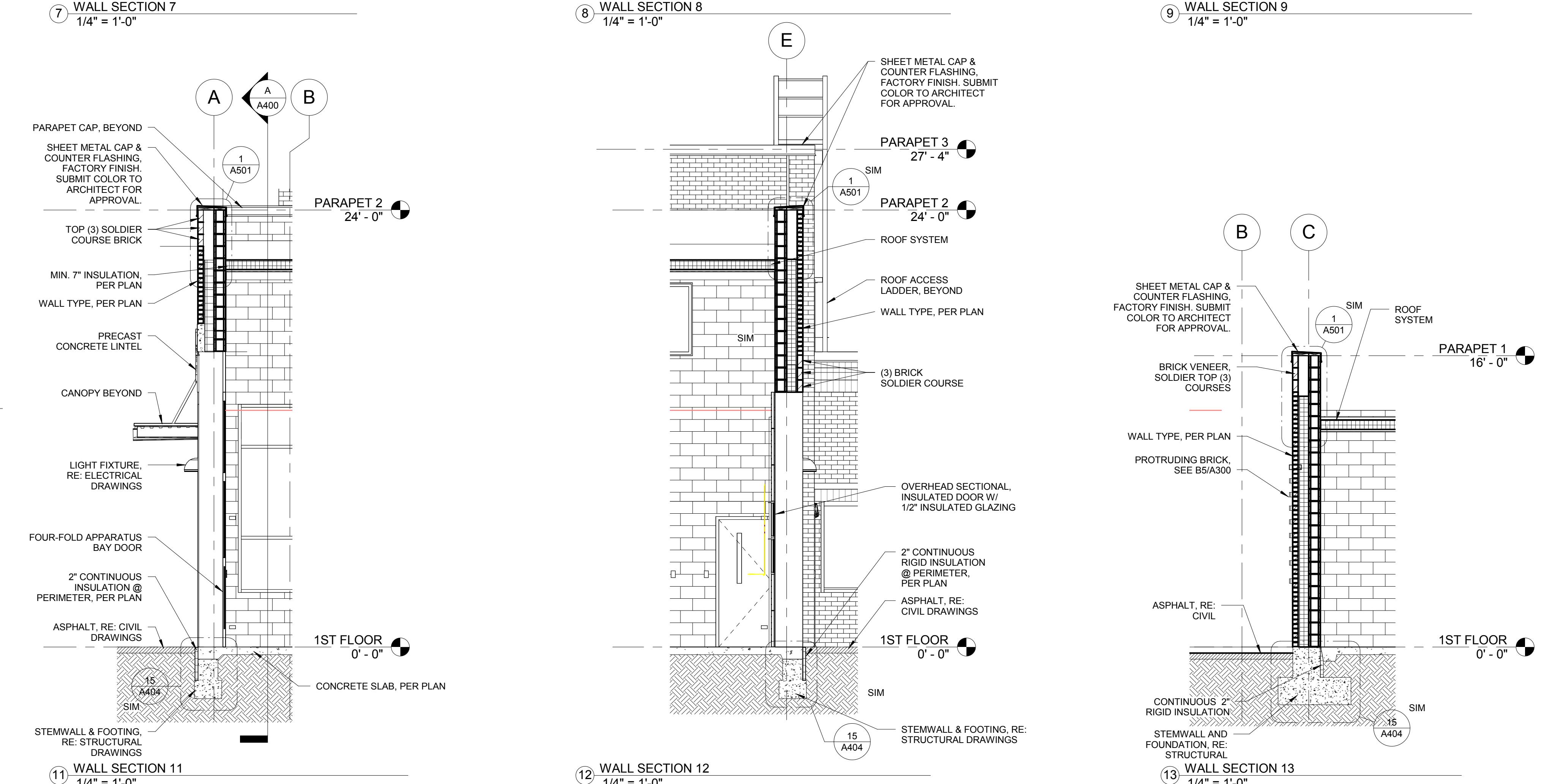
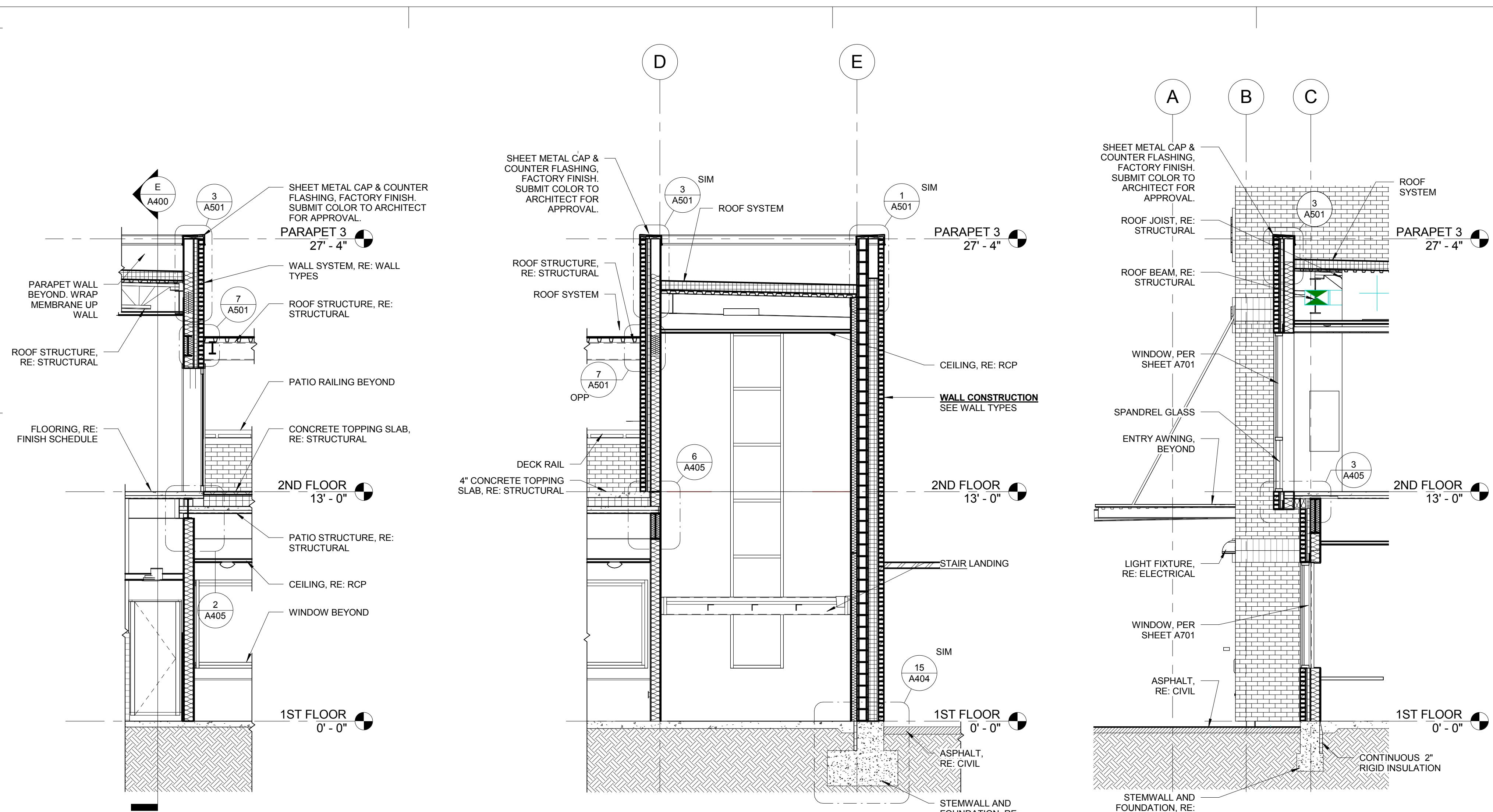
PROJECT PHASE 75% CD'S

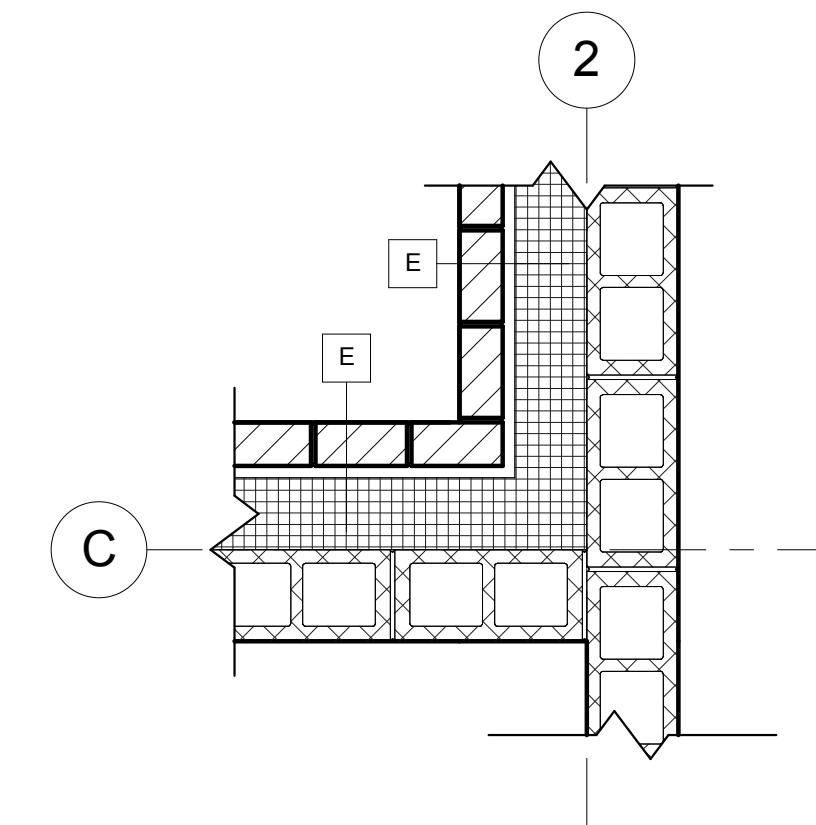
PROJECT NUMBER	15-27
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SHEET NAME:

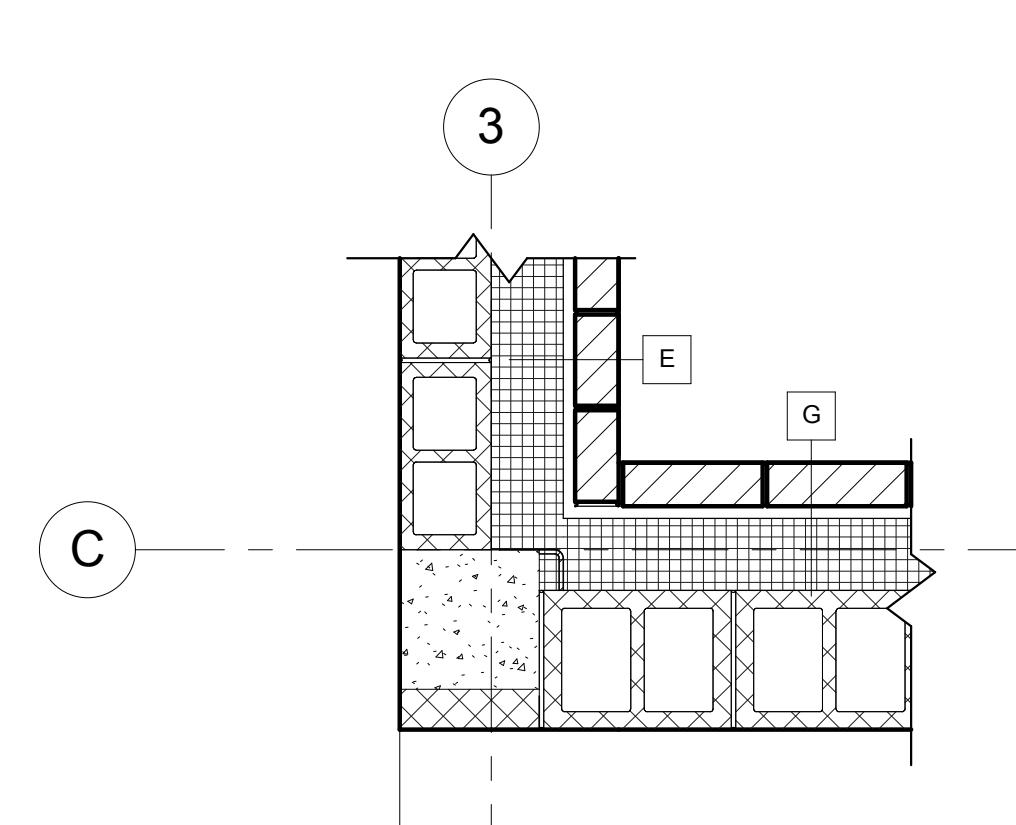
WALL SECTIONS

SHEET NUMBER:

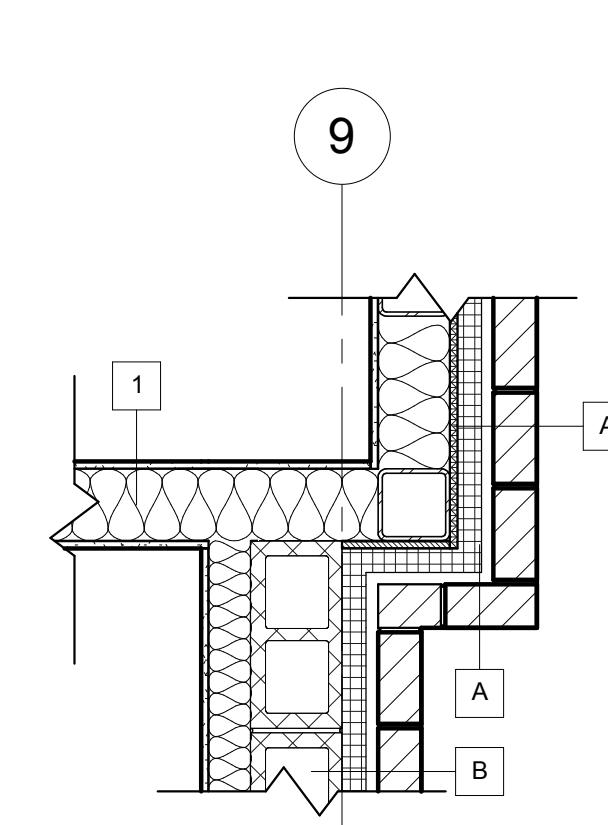
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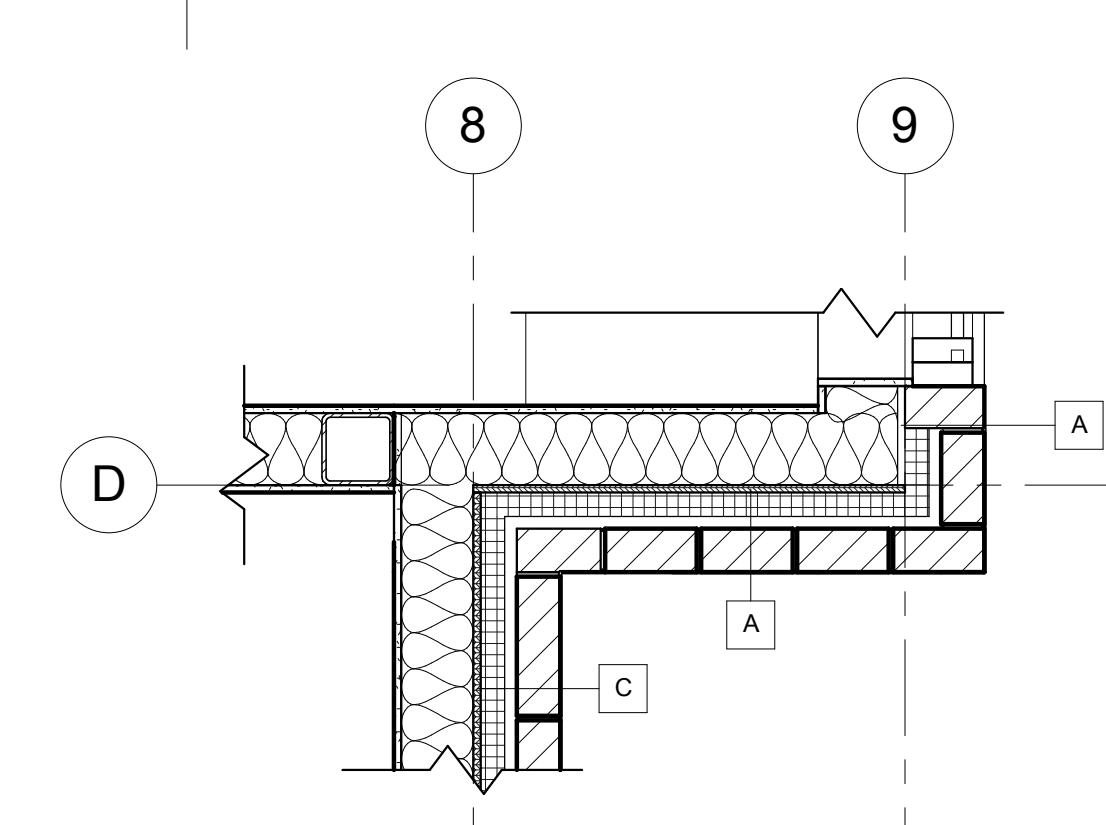
① WALL PLAN 1
3/4" = 1'-0"



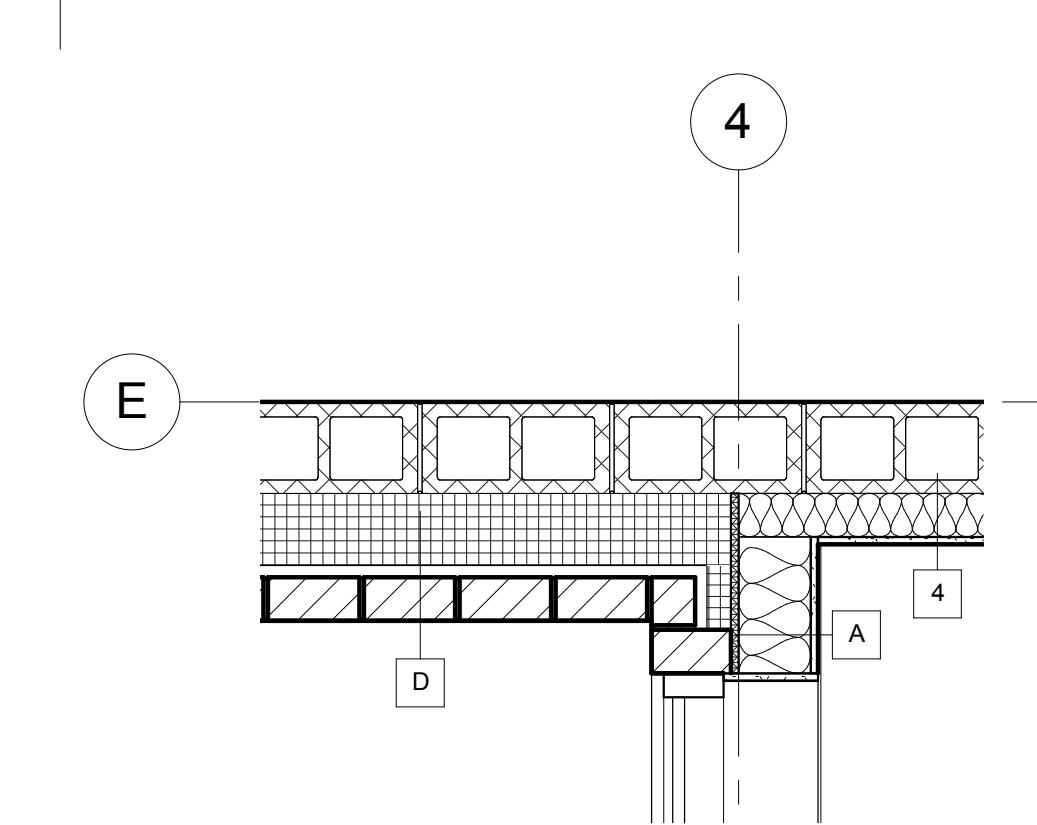
② WALL PLAN 2
3/4" = 1'-0"



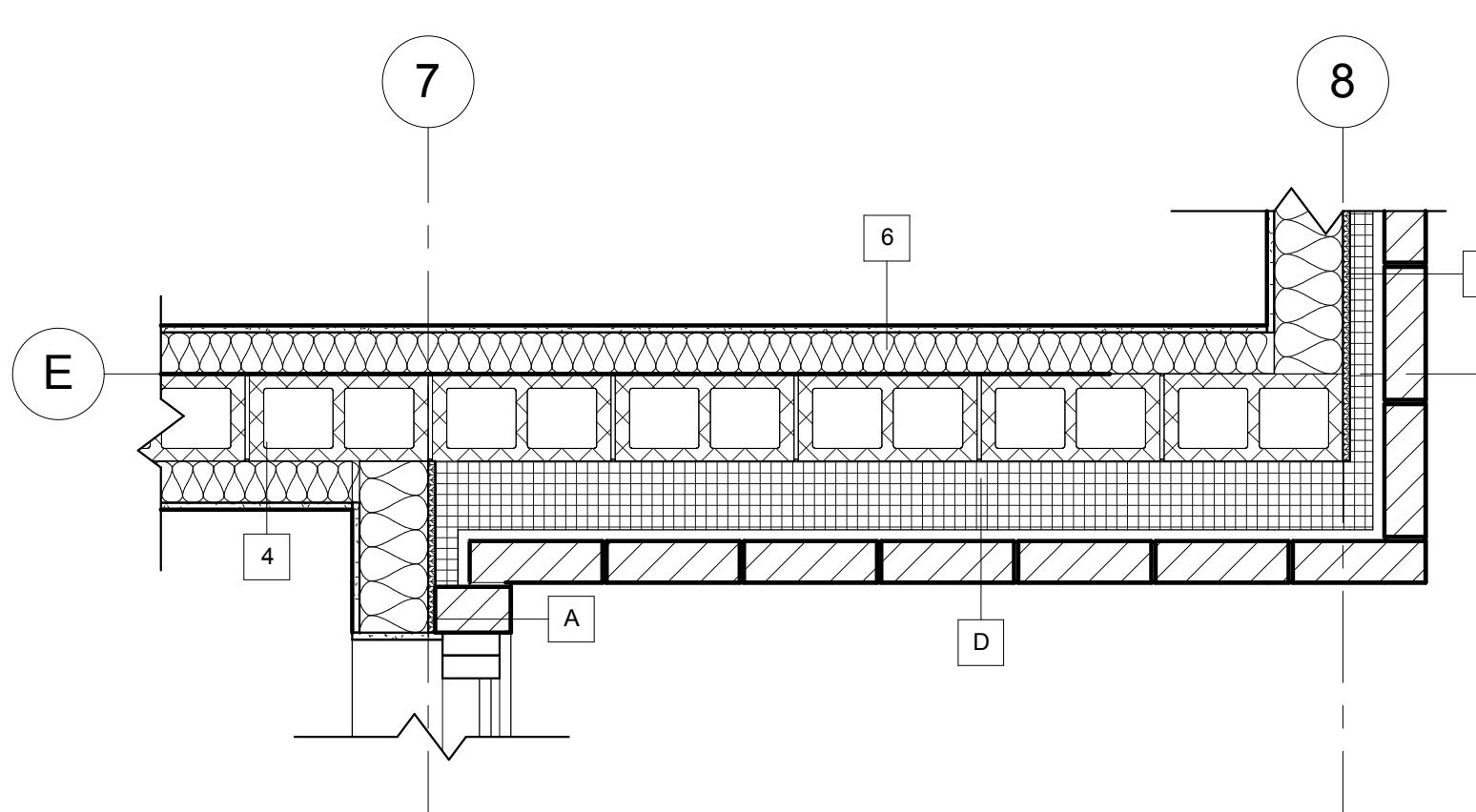
③ WALL PLAN 3
3/4" = 1'-0"



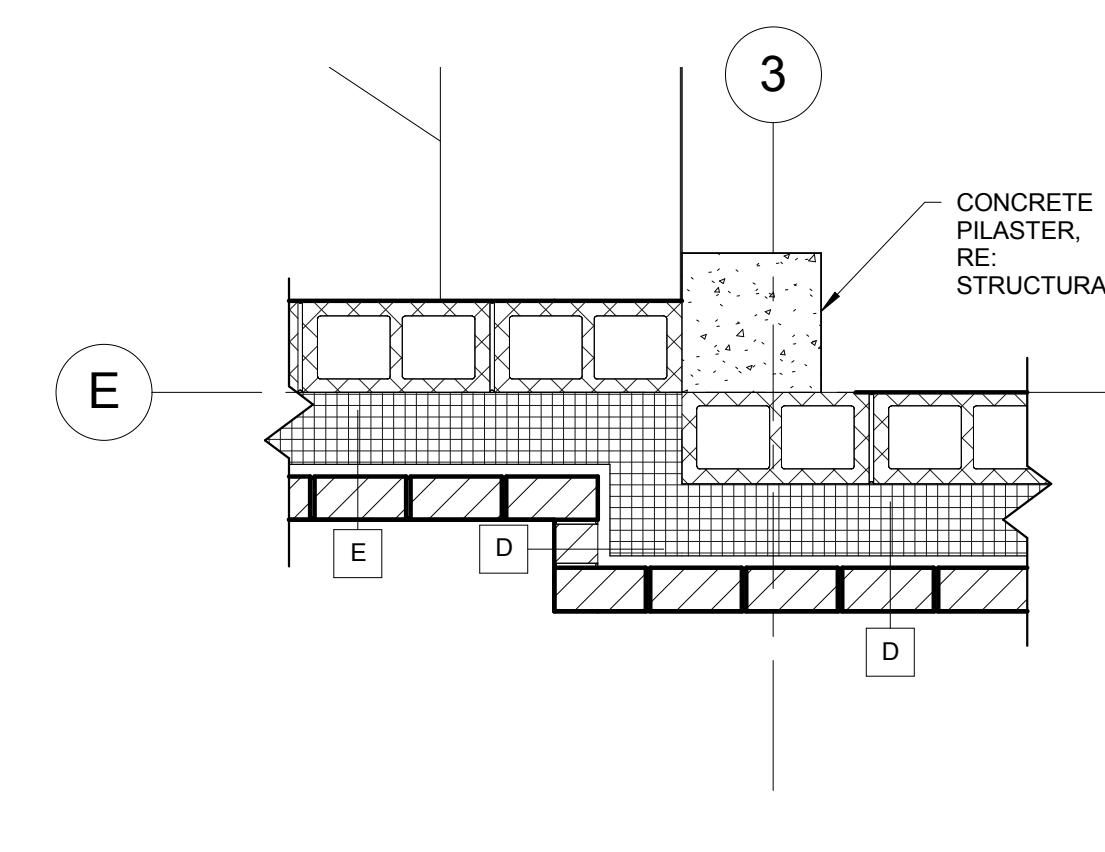
④ WALL PLAN 4
3/4" = 1'-0"



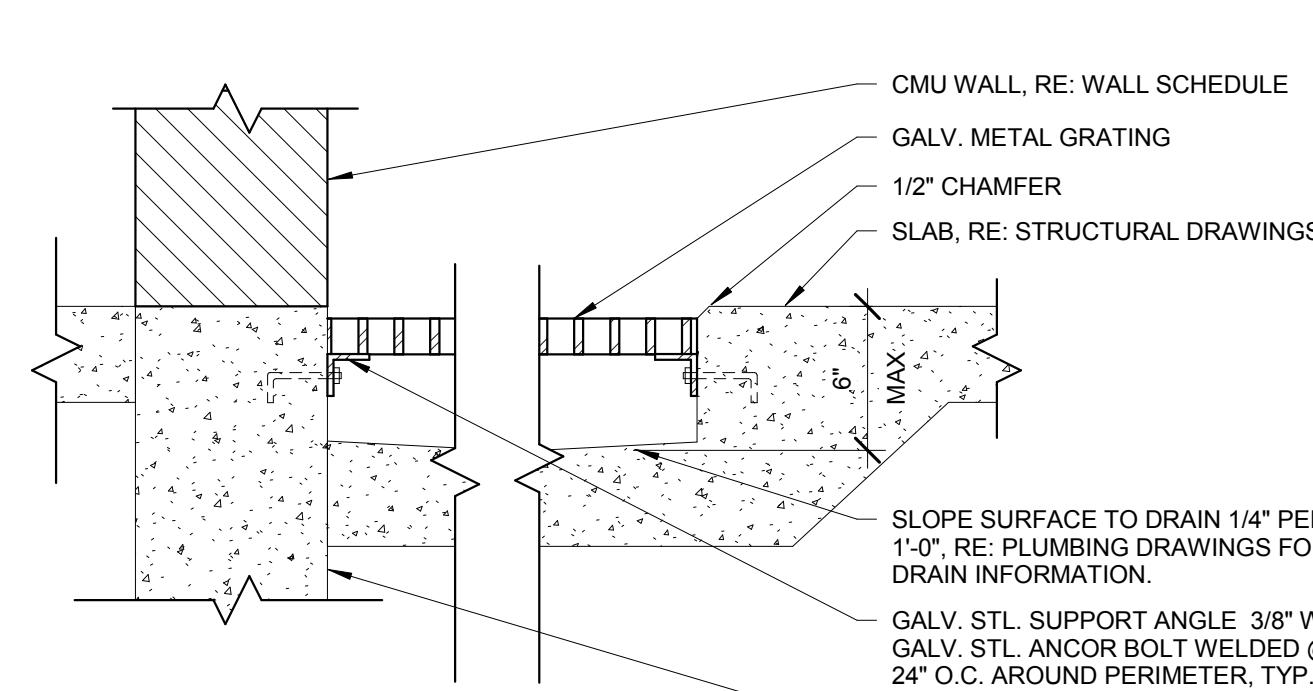
⑤ WALL PLAN 5
3/4" = 1'-0"



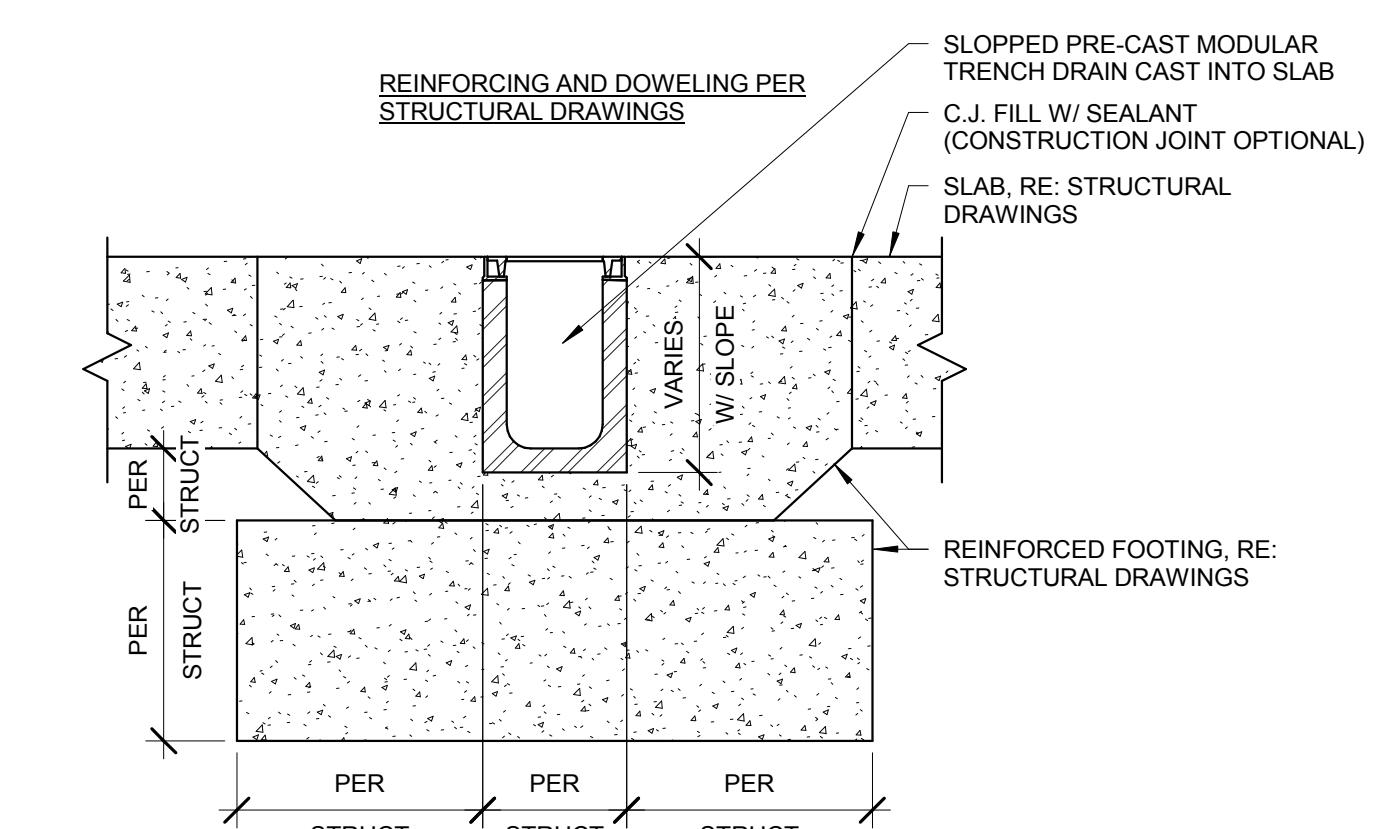
⑥ WALL PLAN 6
3/4" = 1'-0"



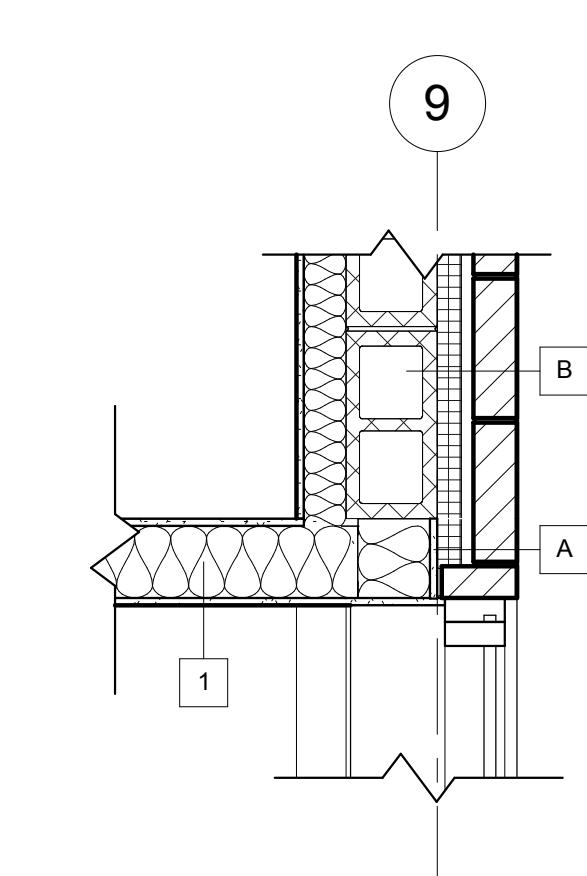
⑦ WALL PLAN 7
3/4" = 1'-0"



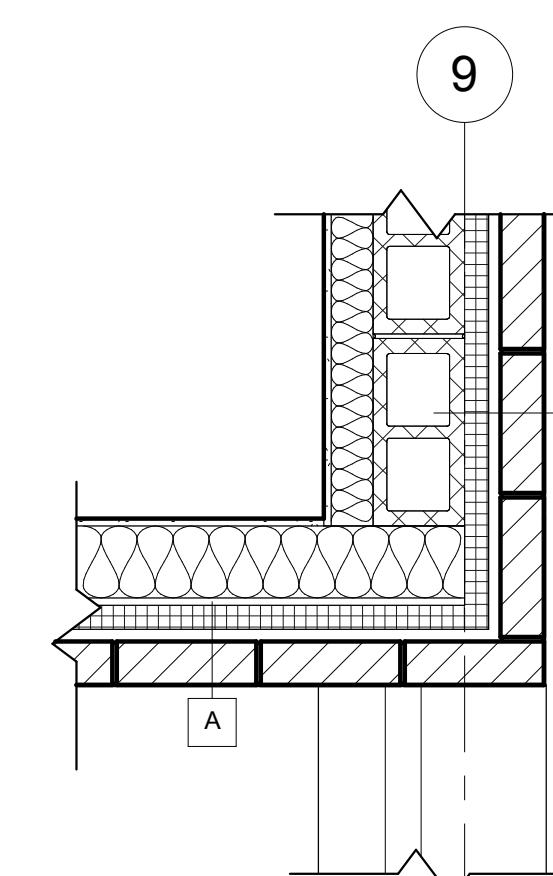
⑧ FLOOR GRATE DETAIL
1 1/2" = 1'-0"



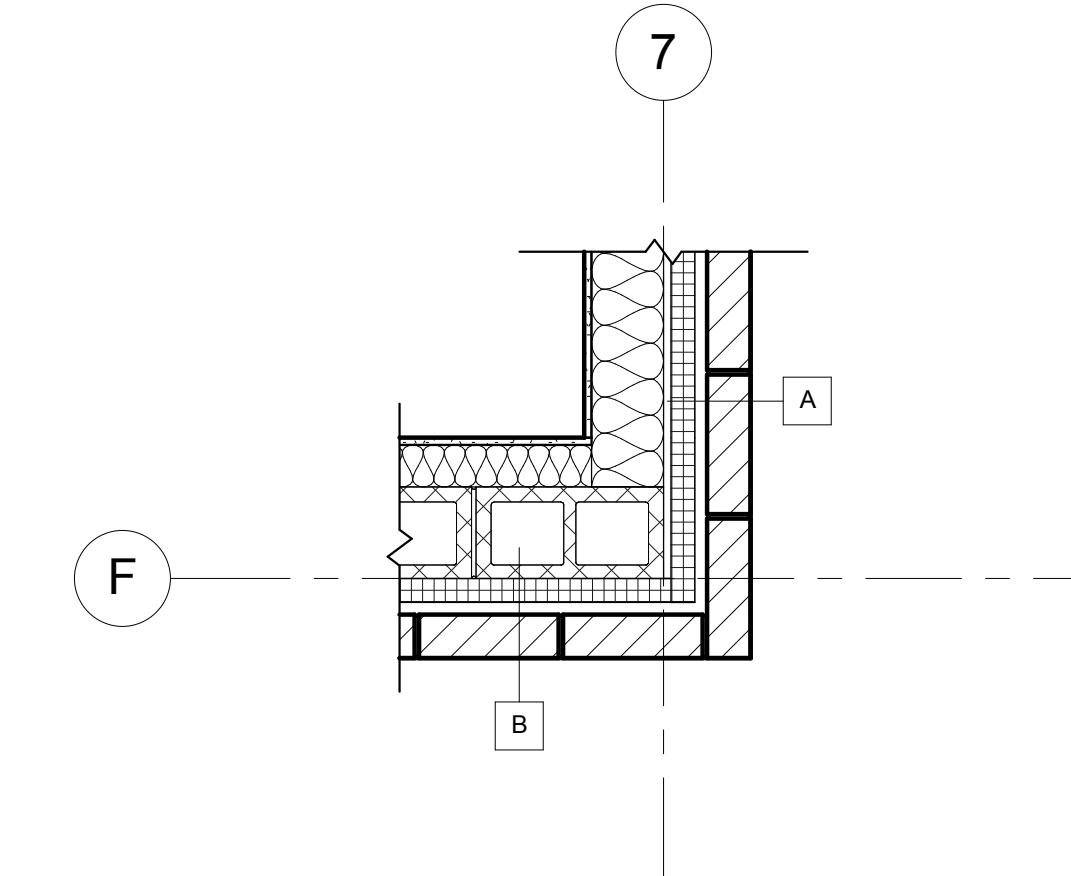
⑨ FLOOR TRENCH DRAIN DETAIL
1 1/2" = 1'-0"



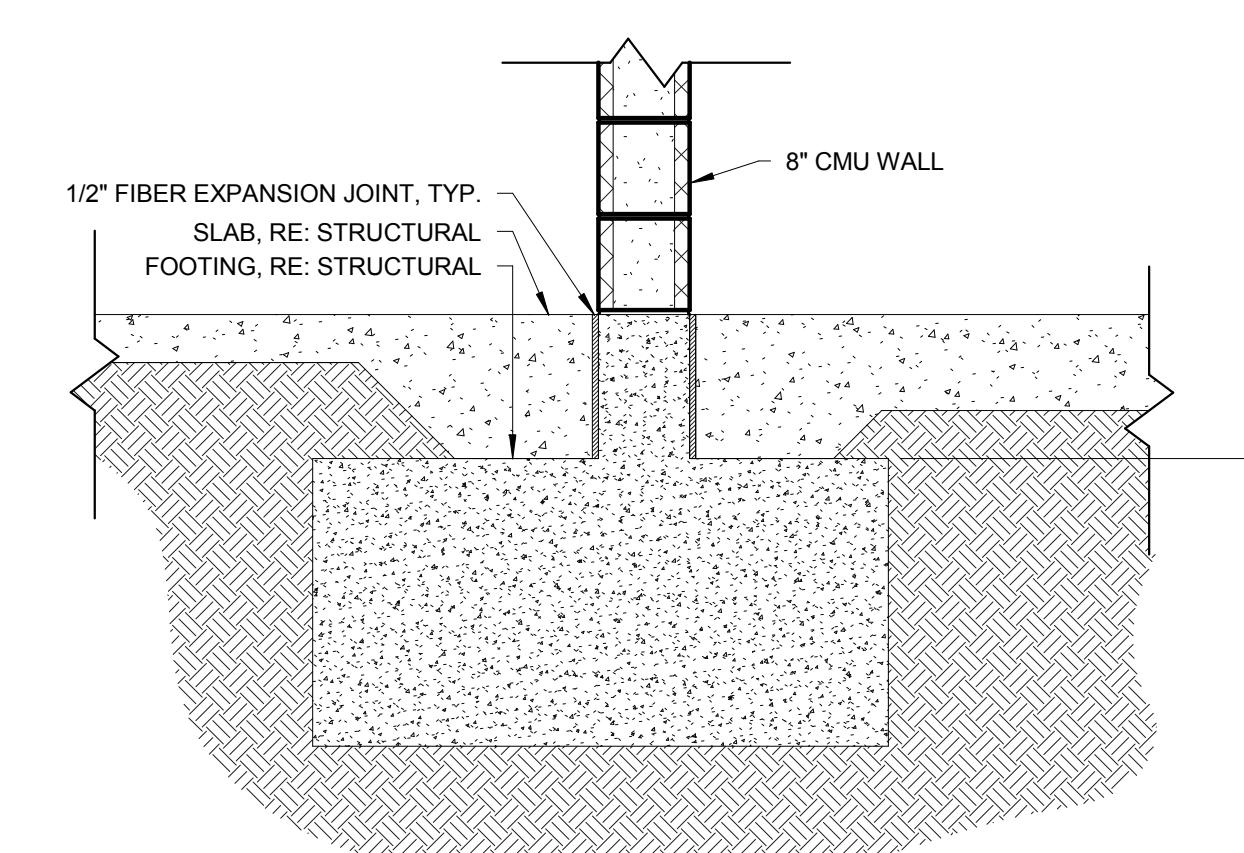
⑩ WALL PLAN 8
3/4" = 1'-0"



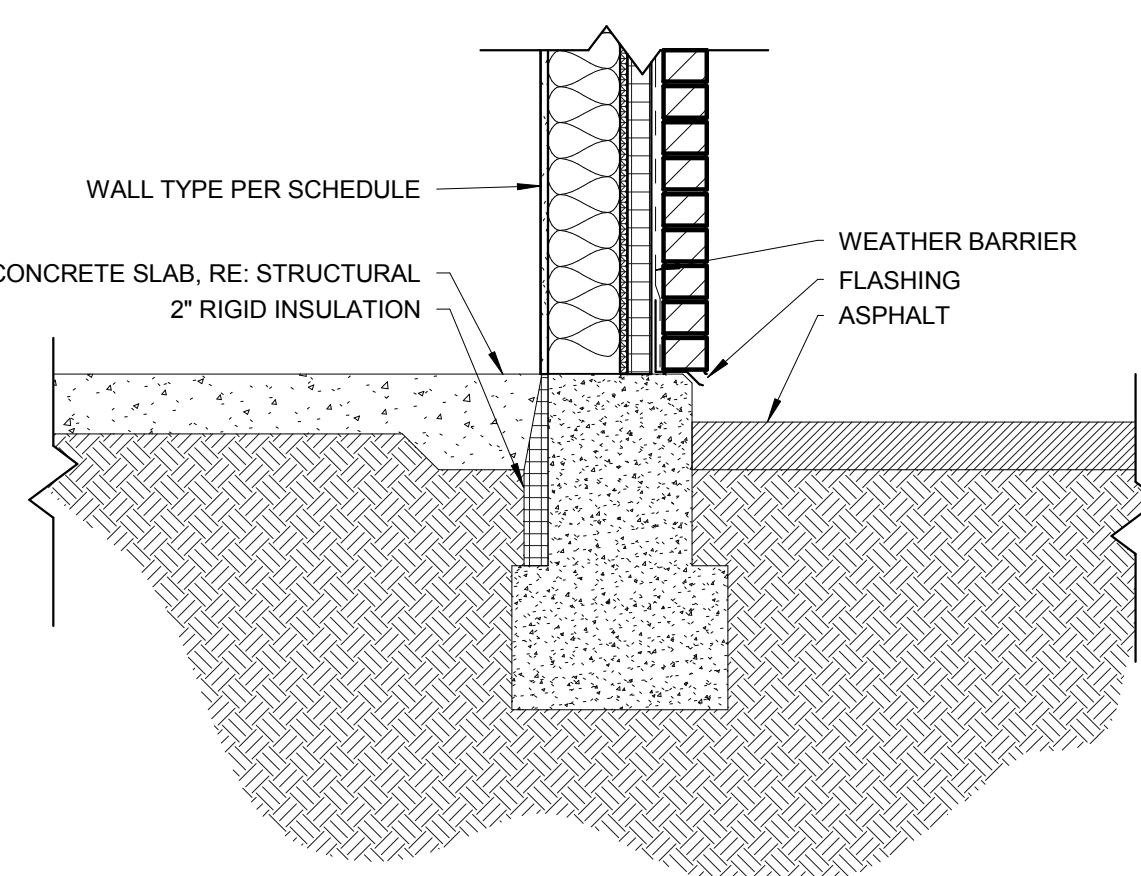
⑪ WALL PLAN 9
3/4" = 1'-0"



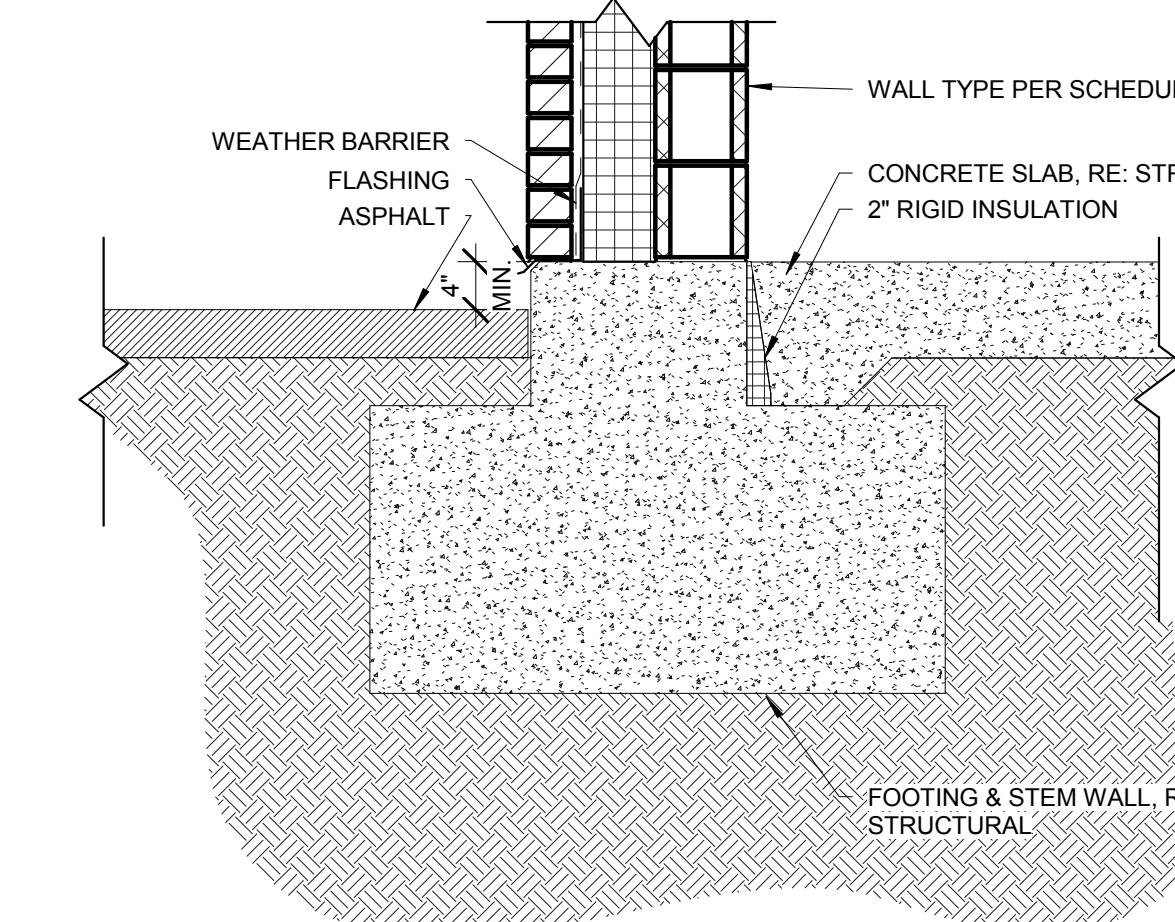
⑫ WALL PLAN 10
3/4" = 1'-0"



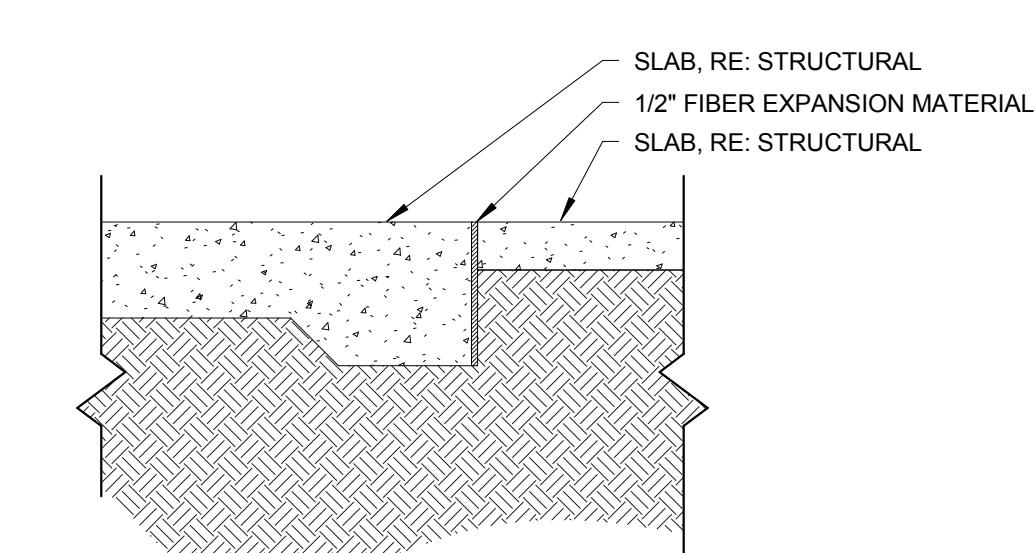
⑬ FOOTING @ FLOOR TRANSITION
3/4" = 1'-0"



⑭ STUD WALL FOOTING DETAIL
3/4" = 1'-0"



⑮ FOOTING DETAIL
3/4" = 1'-0"

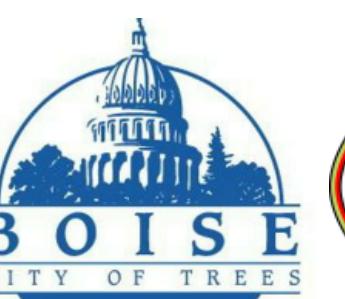


⑯ THICKENED SLAB TRANSITION
3/4" = 1'-0"

NOT FOR CONSTRUCTION

CONSULTANT:

PROJECT INFORMATION:



City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE: 75% CD'S

PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	J. Chatfield, C. Clay, R. Stewart

SHEET NAME:

DETAILS

SHEET NUMBER:

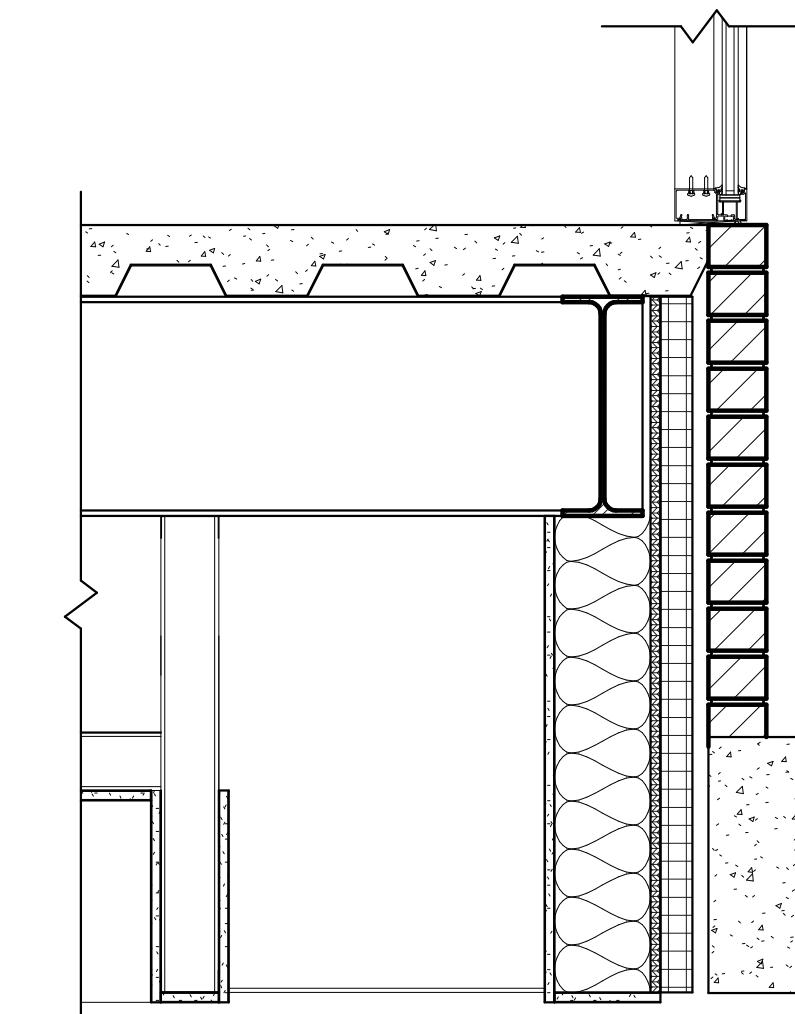
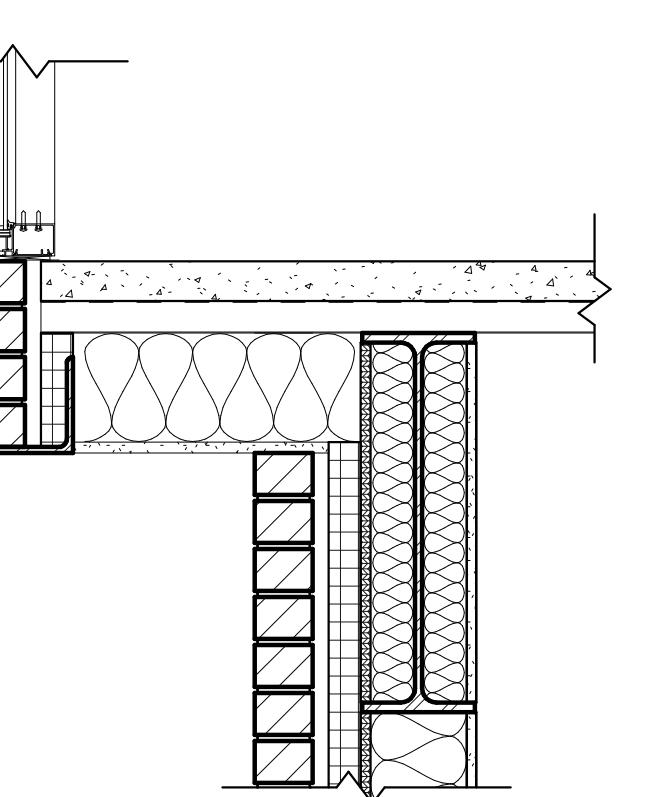
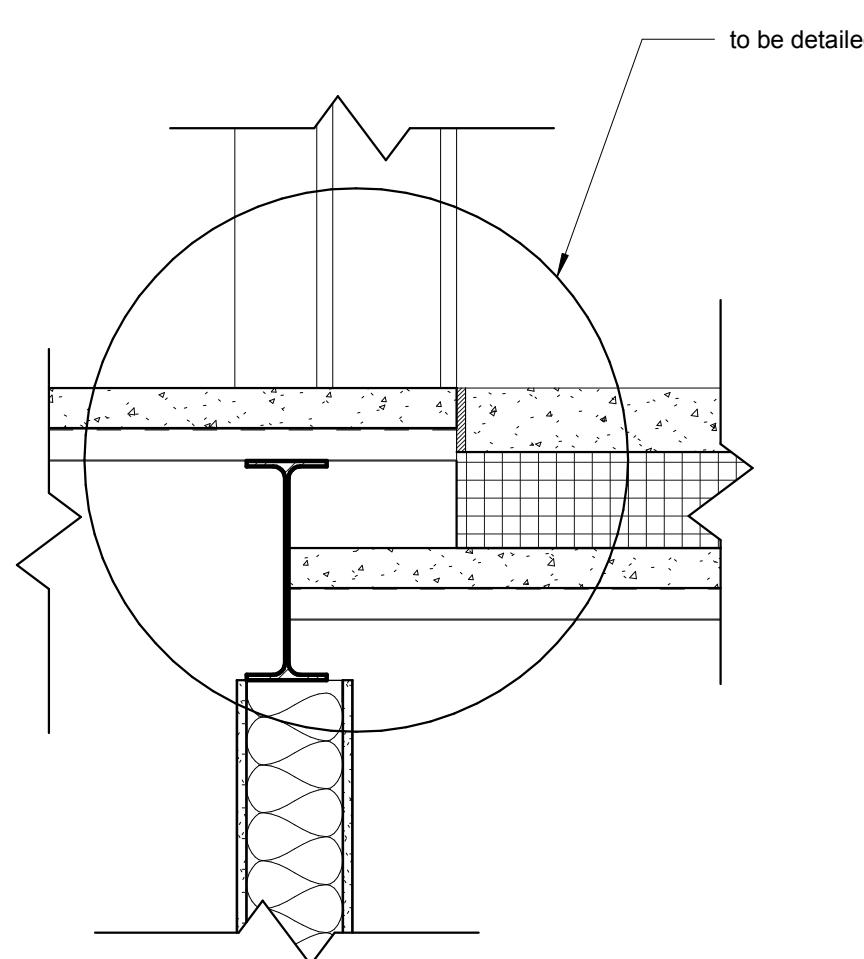
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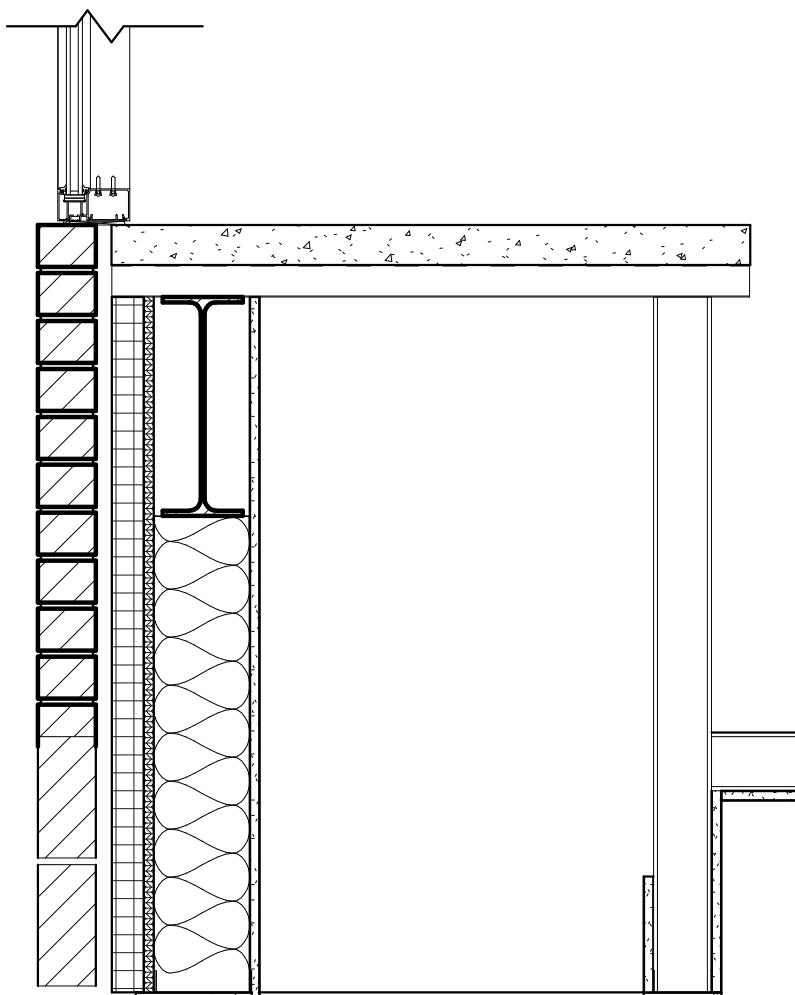
CONSULTANT:

IN PROGRESS

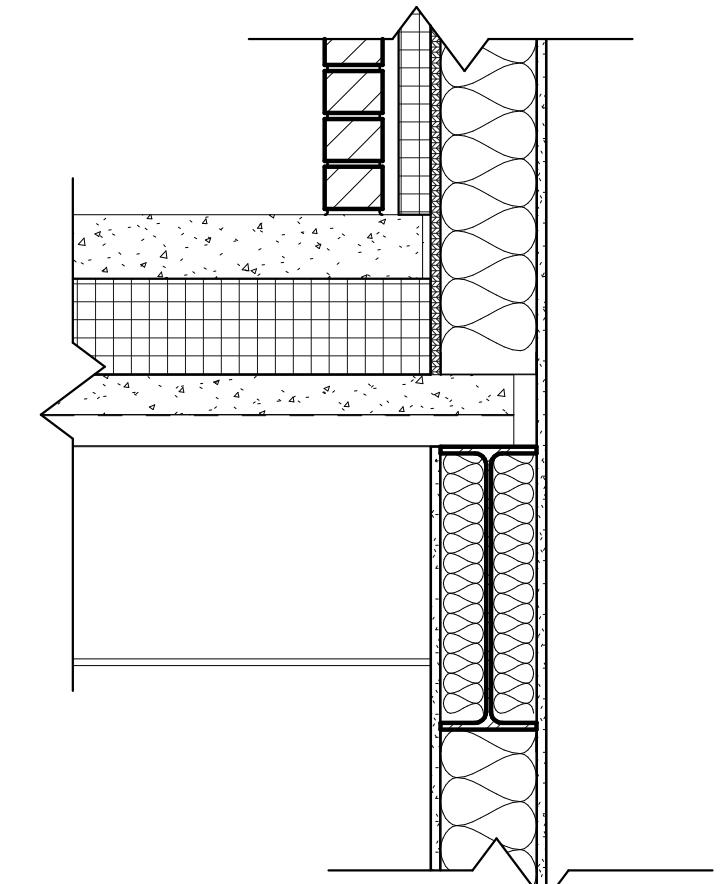
① ROOF PATIO @ KITCHEN
1 1/2" = 1'-0"



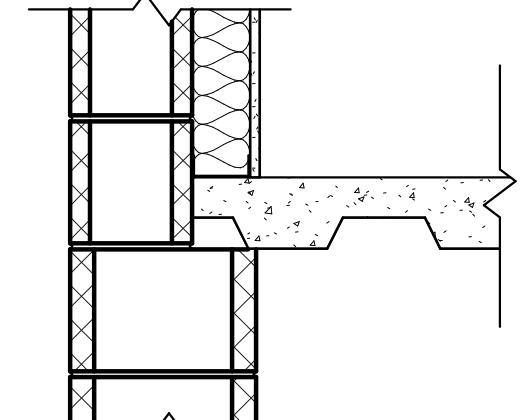
② 2ND FLOOR PATIO @ TRAINING
1" = 1'-0"



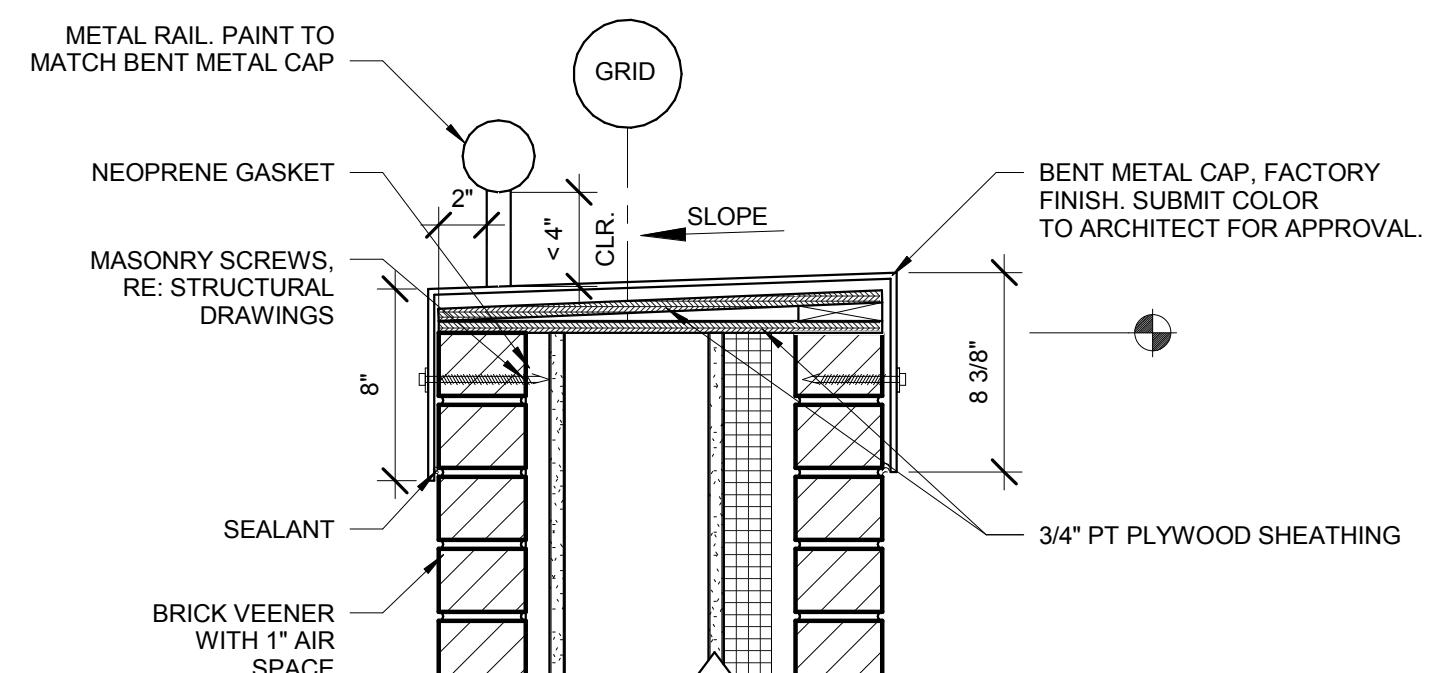
⑤ TOWER CANOPY @ WALL
1" = 1'-0"



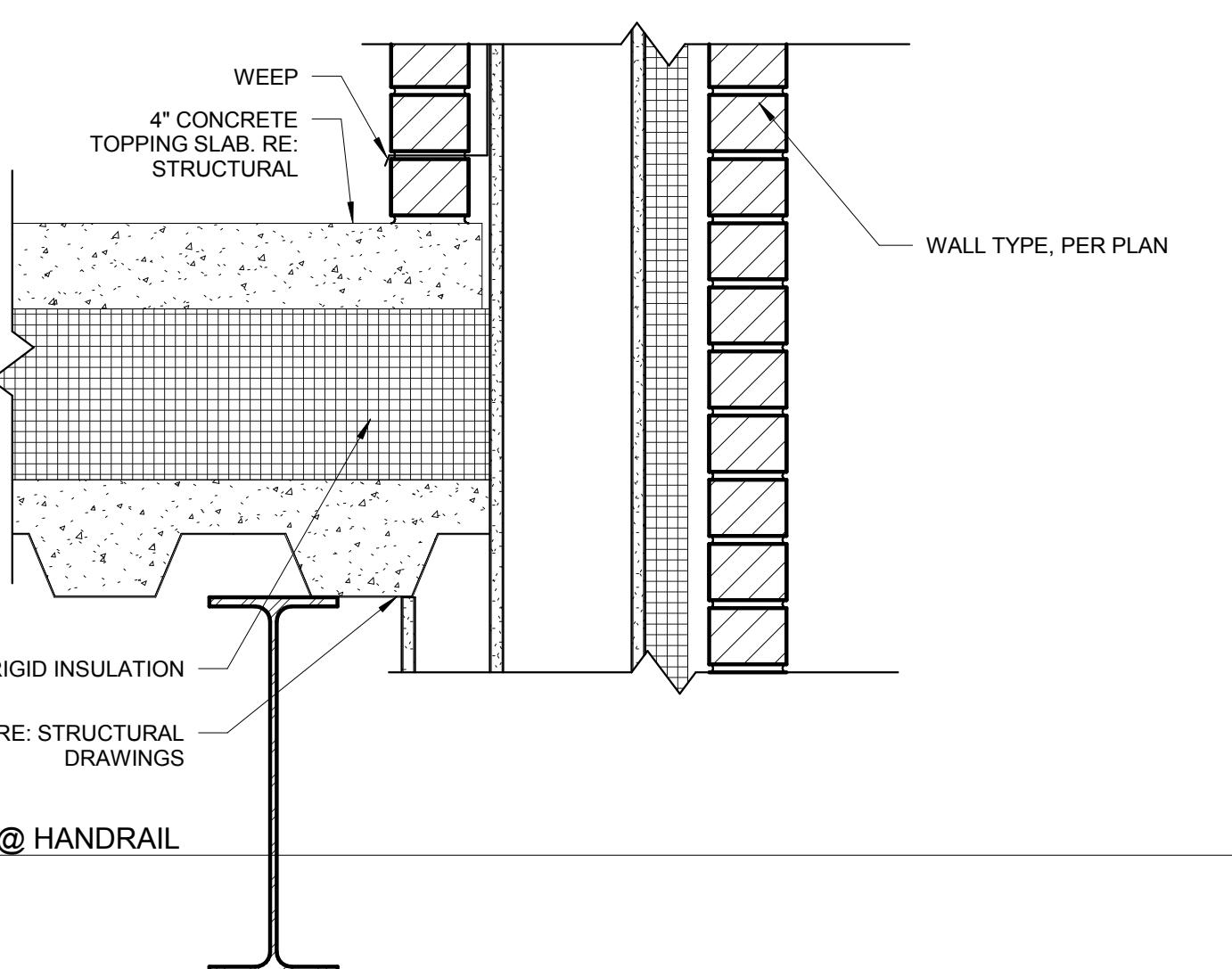
⑥ 2ND FLOOR DECK @ GRID D
1" = 1'-0"



⑦ CONCRETE FLOOR @ CMU WALL
1" = 1'-0"



④ SOFFIT @ STUD WALL DETAIL
1" = 1'-0"



⑧ DECK WALL @ HANDRAIL
1 1/2" = 1'-0"



City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE: 75% CD'S

PROJECT PHASE	75% CD'S
PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	J. Chatfield, C. Clay, R. Stewart

SHEET NAME:

DETAILS

A405

COLE ARCHITECTS

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

architecture • planning

TCA | 8311 Roosevelt Way NE
Seattle, WA 98115 | (206) 522-3520

STAMP:

GENERAL NOTES ROOF PLAN:

A. COORDINATE INSTALLATION OF ROOFING WITH OTHER TRADES.
REPORT ANY CONFLICTS WITH ITEMS INSTALLED BY OTHER TRADES TO ARCHITECT.

B. ALL ROOF CURBS FOR NEW ROOFTOP EXHAUST FANS, HVAC UNITS AND CONDENSATION UNITS SHALL HAVE CURB HEIGHTS THAT WILL ALLOW FOR A MINIMUM OF 8" BASE FLASHING HEIGHTS FOR THE ROOF SYSTEM.

C. ALL PLUMBING VENTS SHALL EXTEND ABOVE THE FINISHED SURFACE OF THE ROOF SYSTEM AS REQUIRED TO PROVIDE FOR A MINIMUM OF 8" BASE FLASHING. PROVIDE FLASHING AROUND VENTS AND ROOF PENETRATIONS PER ROOFING MANUFACTURER RECOMMENDATIONS.

D. PROVIDE 36" WIDE WALK PADS AROUND PERIMETER OF ALL MECHANICAL EQUIPMENT. PROVIDE 36" WIDE WALK PADS AROUND ALL ROOF HATCHES & 72"X72" PADS AT LADDERS.

E. UNLESS NOTED OTHERWISE - PROVIDE FIRESTONE UNI-CLAD KYNAR 500/HYLAR 5000 PRE-FINISHED GALVALUME STEEL (24 GA) ARCHITECTURE SHEET AND COIL FOR ALL COPINGS, FLASHING & TRIM PIECES. SUBMIT STANDARD COLOR SELECTION TO ARCHITECT FOR APPROVAL. FIELD PAINT METAL ONLY AS REQUIRED OR NOTED. ALL CLEATS TO BE CONTINUOUS.

F. ALL GUTTERS TO BE PREFINISHED SMArna APPROVED 'K' STYLE CONTINUOUS ALUMINUM GUTTERS SIZED FOR QUANTITY OF WATER FLOW. PROVIDE STAINLESS STEEL SCREENS FOR GUTTERS. UNO PROVIDE HEAT CABLE IN GUTTER. UNO SUBMIT STANDARD COLOR SELECTION TO ARCHITECT FOR APPROVAL.

G. ALL DOWNSPOUTS TO BE PRE-FINISHED SMArna APPROVED RECTANGULAR ALUMINUM DOWNSPOUTS SIZED FOR QUANTITY OF WATER FLOW. PROVIDE ALUMINUM ATTACHMENT CLIPS AT MAX 4' INTERVALS. UNO PROVIDE HEAT CABLE IN DOWNSPOUT AND EXTEND INTO GROUND. UNO SUBMIT STANDARD COLOR SELECTION TO ARCHITECT FOR APPROVAL. SEE EXTERIOR ELEVATIONS OR ROOF PLAN FOR LOCATIONS.

H. PROVIDE PAINTED 4' TALL CAST ALUM. DOWNSPOUT BOOTS @ ALL DOWNSPOUTS. TIE INTO SUB-GRADE DRAINAGE, RE: CIVIL.

I. TAPERED INSULATION TO BE 1/4" PER FOOT MIN SLOPE TO DRAIN. ROOF PLAN SHOWS TAPERED INSULATION FOR GRAPHIC REPRESENTATION ONLY. CONTRACTOR TO VERIFY INSULATION REQUIRED TO SLOPES PRIOR TO MEMBRANE INSULATION.

J. PROVIDE TAPERED INSULATION CRICKETS 1/4" PER FOOT MIN. SLOPE @ HIGH SIDE OF ALL MECHANICAL UNITS AND ROOF HATCHES, TO SHED WATER AROUND AND MAINTAIN POSITIVE ROOF DRAINAGE.

K. VERIFY ELEVATION OF ROOF DRAIN RELATIVE TO OVERFLOW SCUPPER PRIOR TO INSTALLATION OF SCUPPER.

L. PROVIDE SELF-ADHERING VAPOR RETARDER BETWEEN DECK AND INSULATION. SEE DETAILS. UNO PROVIDE CARLISLE AIR & VAPOR BARRIER TR725. PROVIDE AIR TIGHT SEAL AROUND ALL DECK PENETRATIONS AND DECK PERIMETER PRIOR TO INSTALLING VAPOR RETARDER.

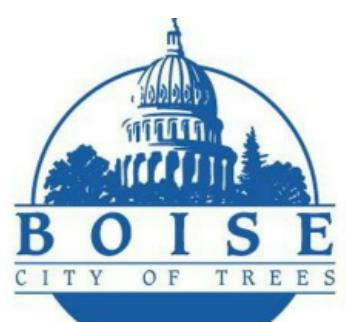
M. ALL WOOD NAILER AND BLOCKING TO BE TREATED. SECURE NAILERS PER FM GLOBAL 1-49 PERIMETER FLASHING REQUIREMENTS.

N. PROVIDE VAPOR RETARDER BETWEEN DECK AND INSULATION PER ROOFING MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS. SEE DETAILS. PROVIDE AIR TIGHT SEAL AROUND ALL DECK PENETRATIONS AND DECK PERIMETER PRIOR TO INSTALLING VAPOR RETARDER. (ROOF SYSTEM BASIS OF DESIGN: THE GARLAND COMPANY, STRESSPLY E FR MINERAL)

NOT FOR CONSTRUCTION

CONSULTANT:

PROJECT INFORMATION:



City of Boise Fire Station 4

8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

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PROJECT PHASE 75% CD'S

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PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	J. Chatfield, C. Clay, R. Stewart

SHEET NAME:

ROOF PLAN

SHEET NUMBER:

A500

GENERAL NOTES ROOF PLAN:

A. COORDINATE INSTALLATION OF ROOFING WITH OTHER TRADES.
REPORT ANY CONFLICTS WITH ITEMS INSTALLED BY OTHER TRADES TO ARCHITECT.

B. ALL ROOF CURBS FOR NEW ROOFTOP EXHAUST FANS, HVAC UNITS AND CONDENSATION UNITS SHALL HAVE CURB HEIGHTS THAT WILL ALLOW FOR A MINIMUM OF 8" BASE FLASHING HEIGHTS FOR THE ROOF SYSTEM.

C. ALL PLUMBING VENTS SHALL EXTEND ABOVE THE FINISHED SURFACE OF THE ROOF SYSTEM AS REQUIRED TO PROVIDE FOR A MINIMUM OF 8" BASE FLASHING. PROVIDE FLASHING AROUND VENTS AND ROOF PENETRATIONS PER ROOFING MANUFACTURER RECOMMENDATIONS.

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F. ALL GUTTERS TO BE PREFINISHED SMArna APPROVED 'K' STYLE CONTINUOUS ALUMINUM GUTTERS SIZED FOR QUANTITY OF WATER FLOW. PROVIDE STAINLESS STEEL SCREENS FOR GUTTERS. UNO PROVIDE HEAT CABLE IN GUTTER. UNO SUBMIT STANDARD COLOR SELECTION TO ARCHITECT FOR APPROVAL.

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KEY NOTES:

- LOCATION OF THROUGH WALL SCUPPER
- ROOF SYSTEM. BASIS OF DESIGN: THE GARLAND COMPANY, STRESSPLY E FR MINERAL.

PROJECT PHASE 75% CD'S

PROJECT NUMBER 15-27

PROJECT MANAGER J. Chatfield

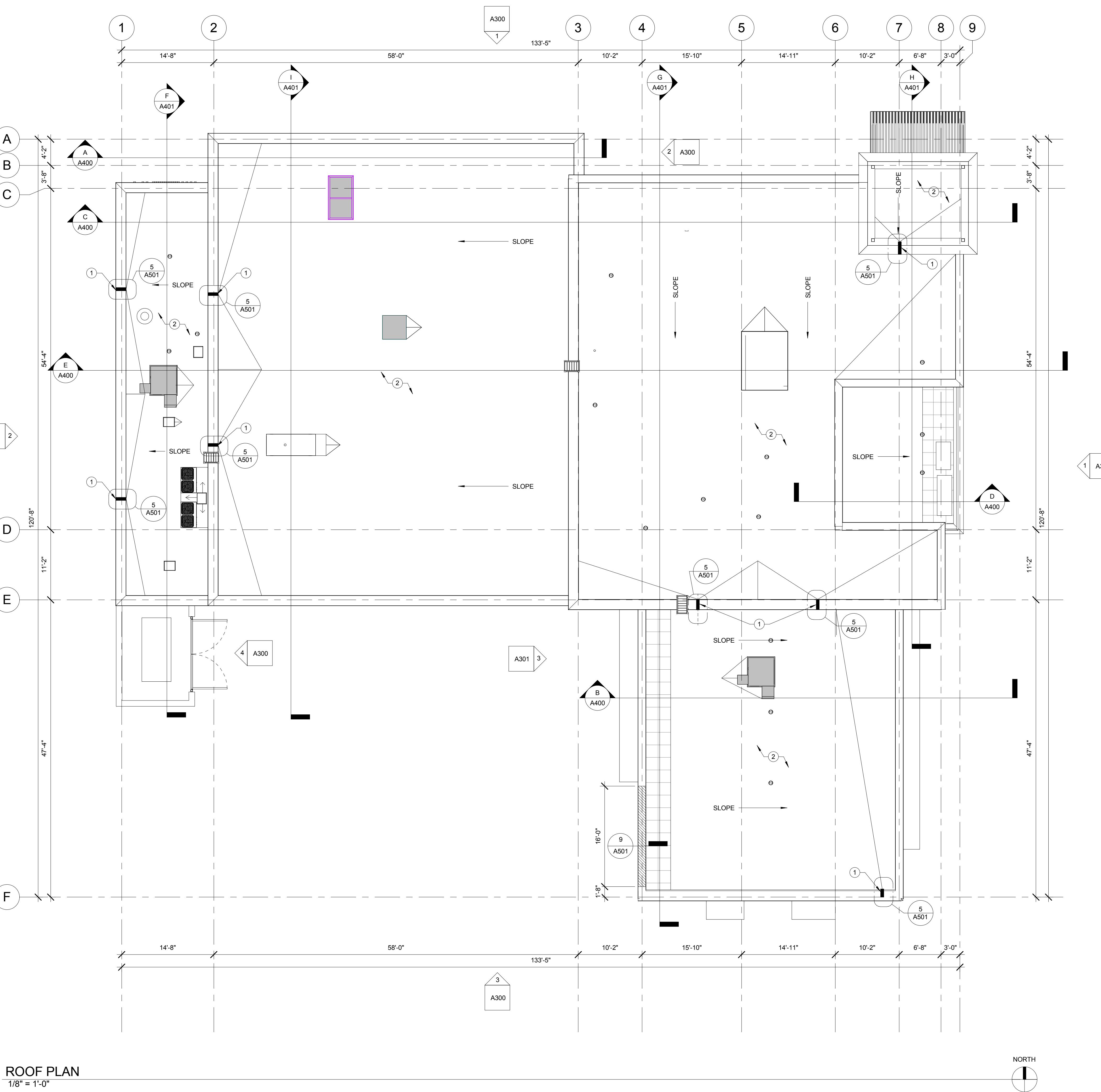
PROJECT ARCHITECT J. Chatfield

DESIGN J. Chatfield

DRAWN BY J. Chatfield, C. Clay, R. Stewart

SHEET NAME:

02.02.16

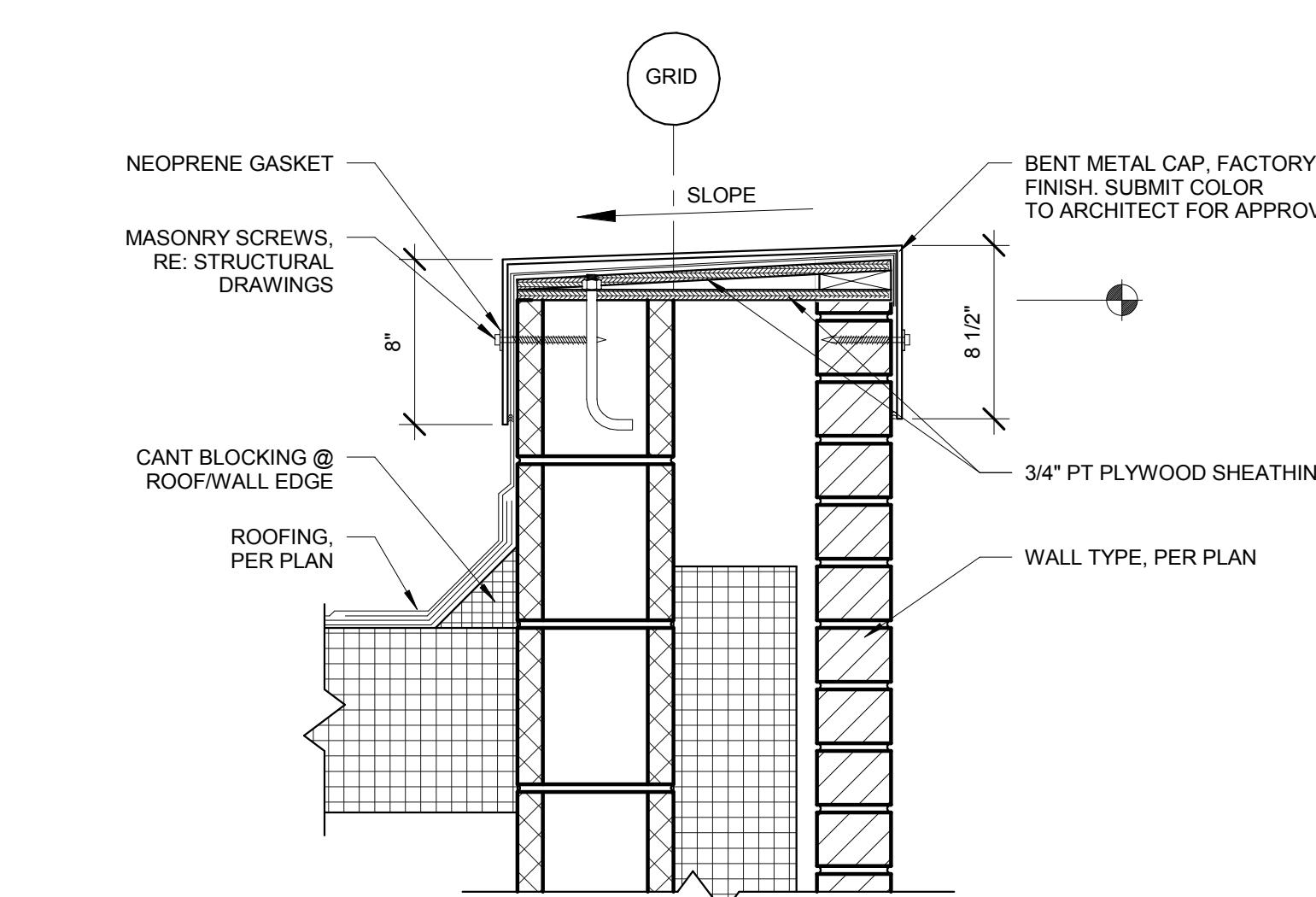
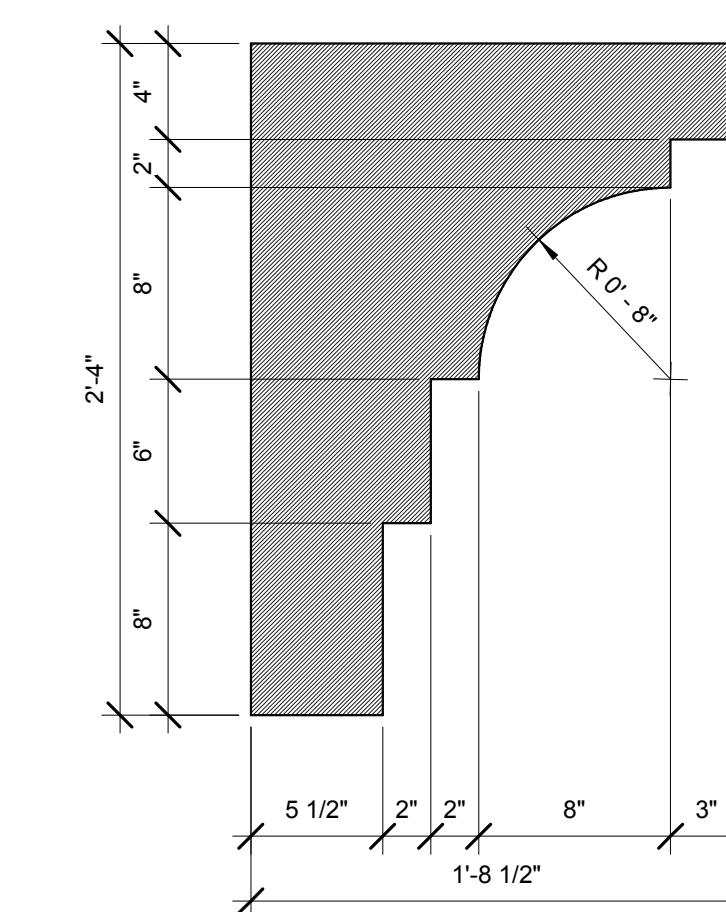
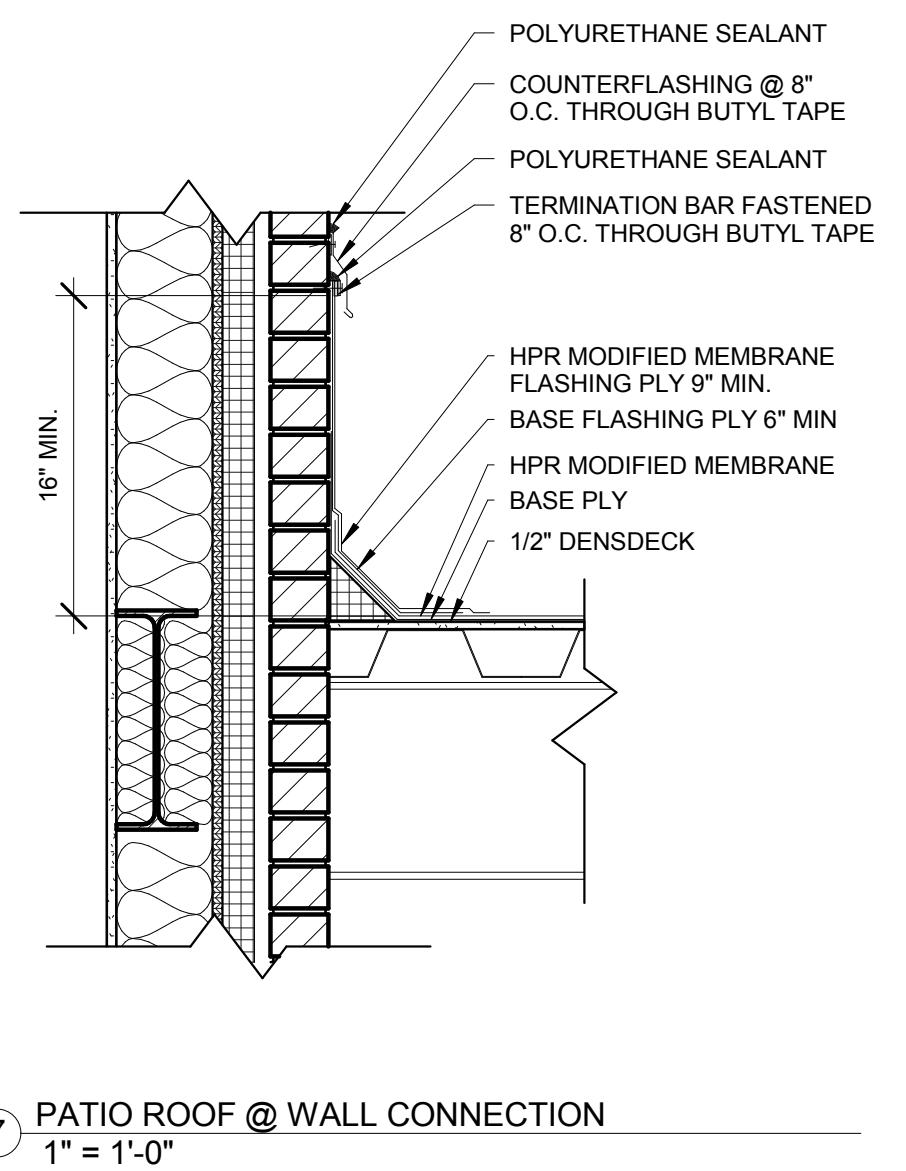
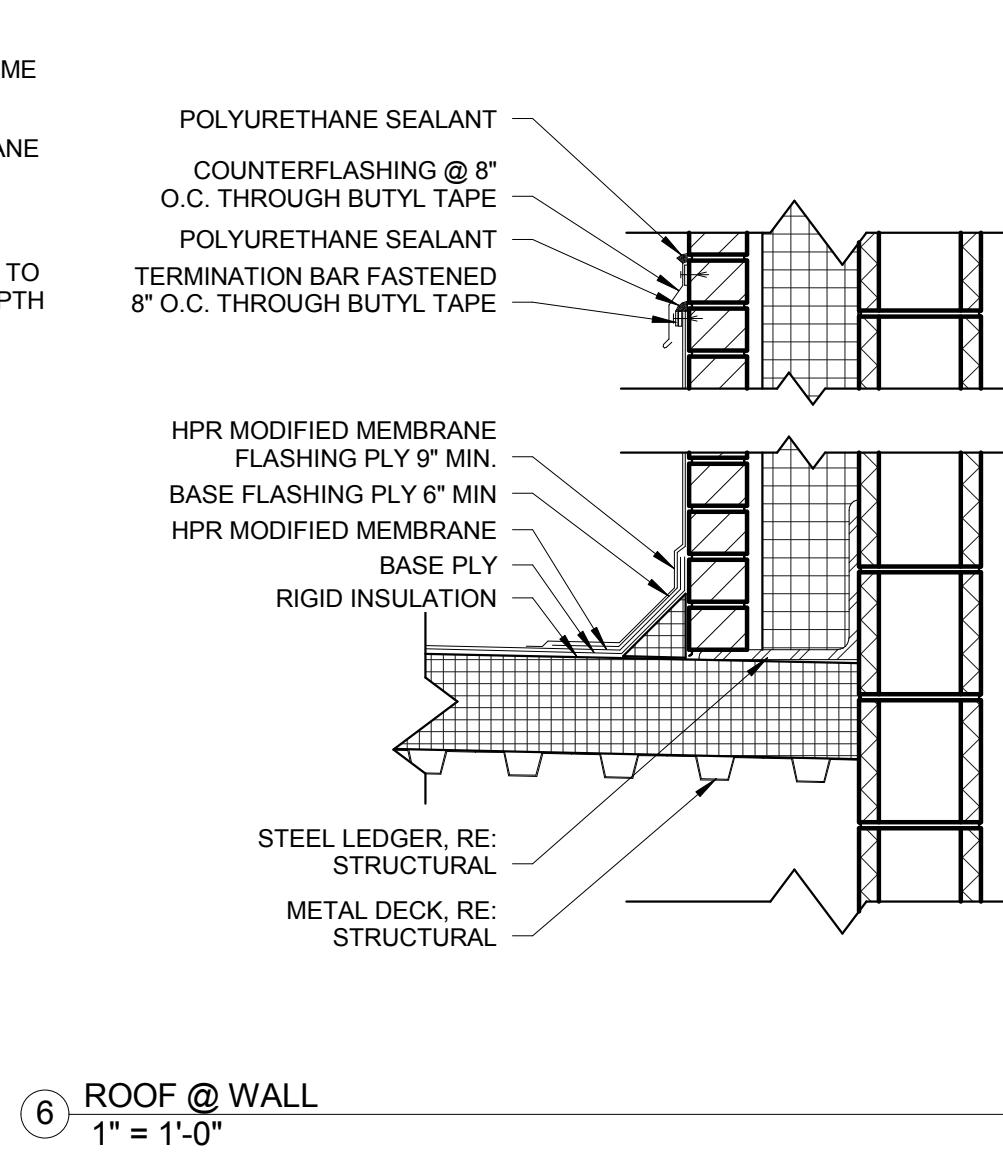
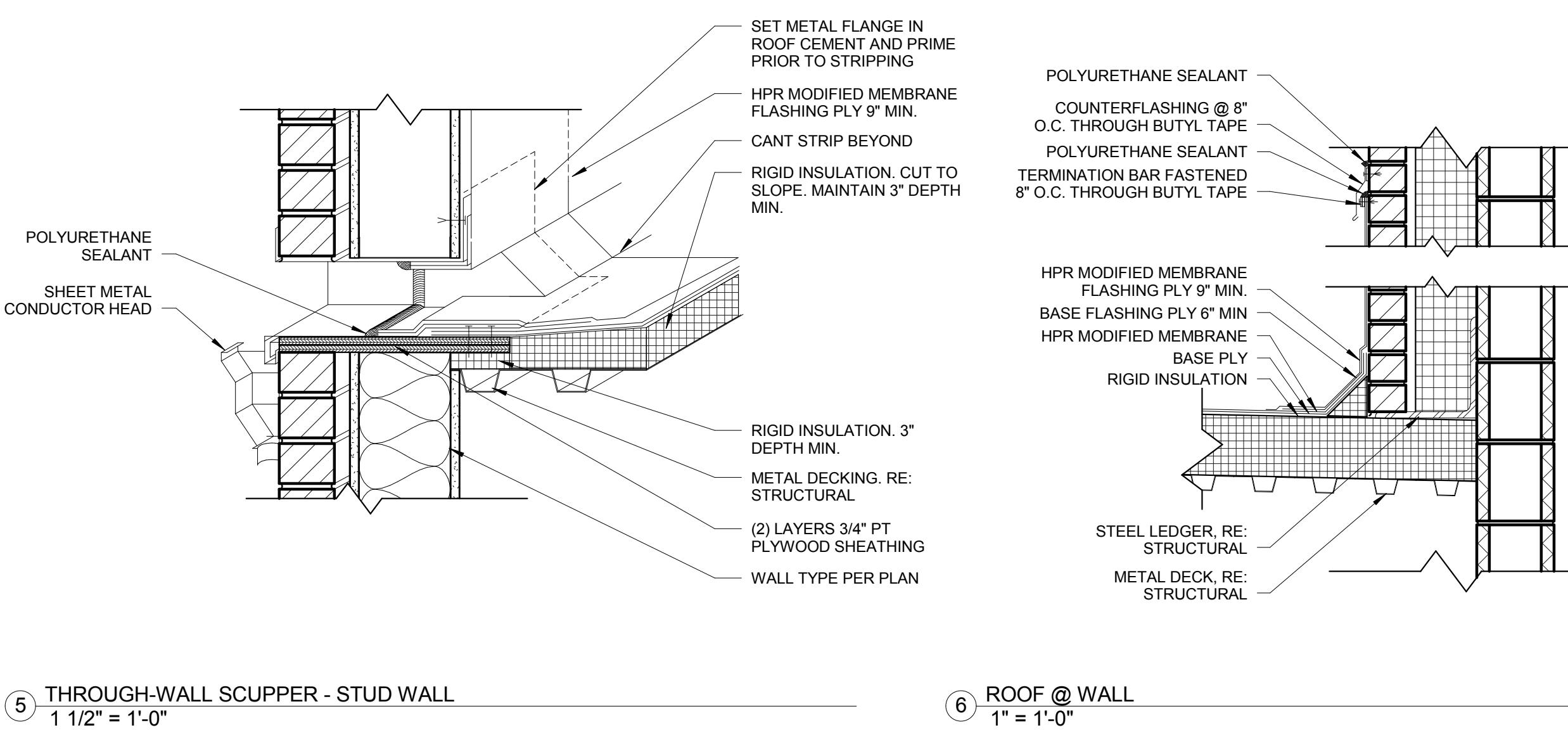
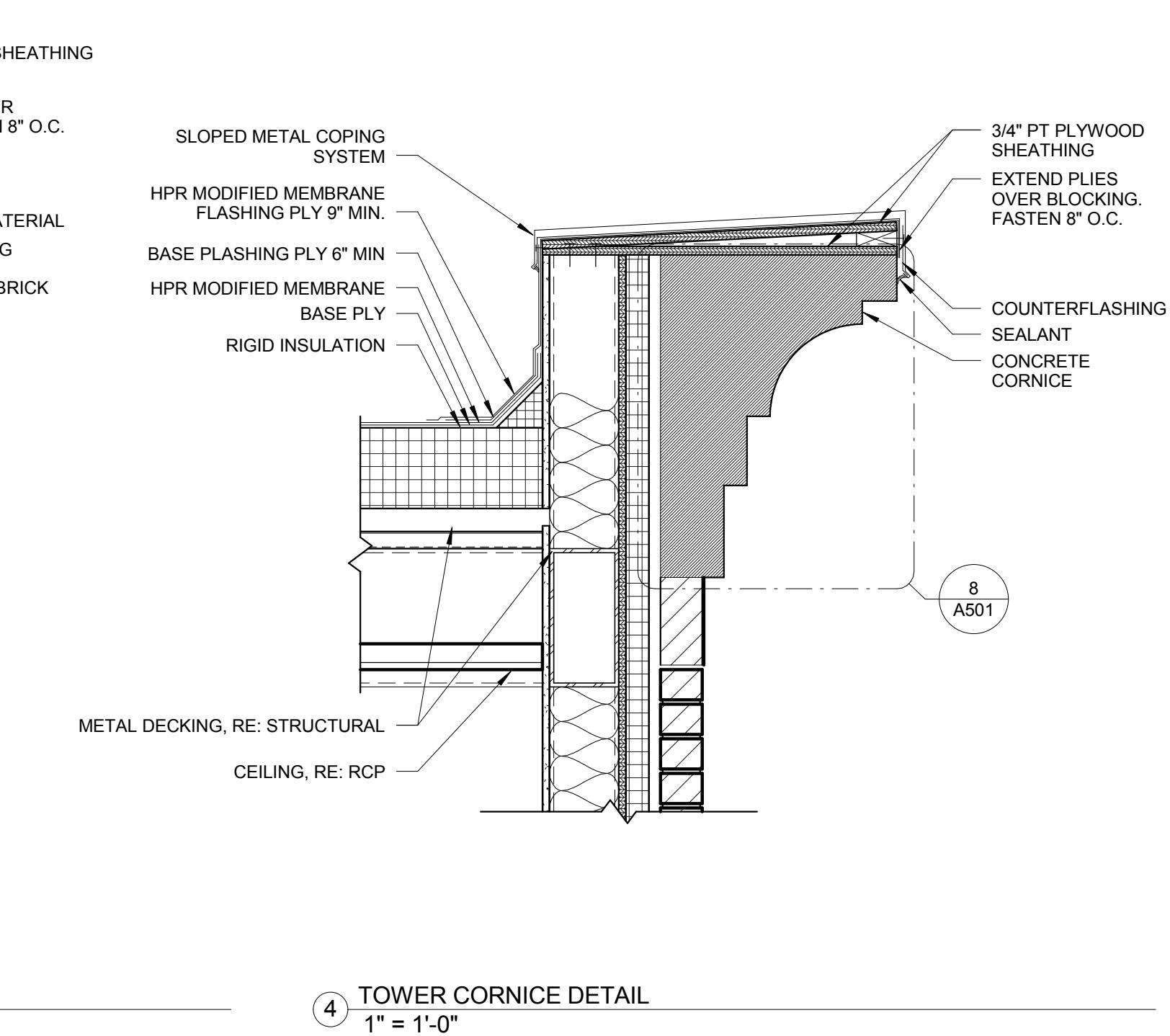
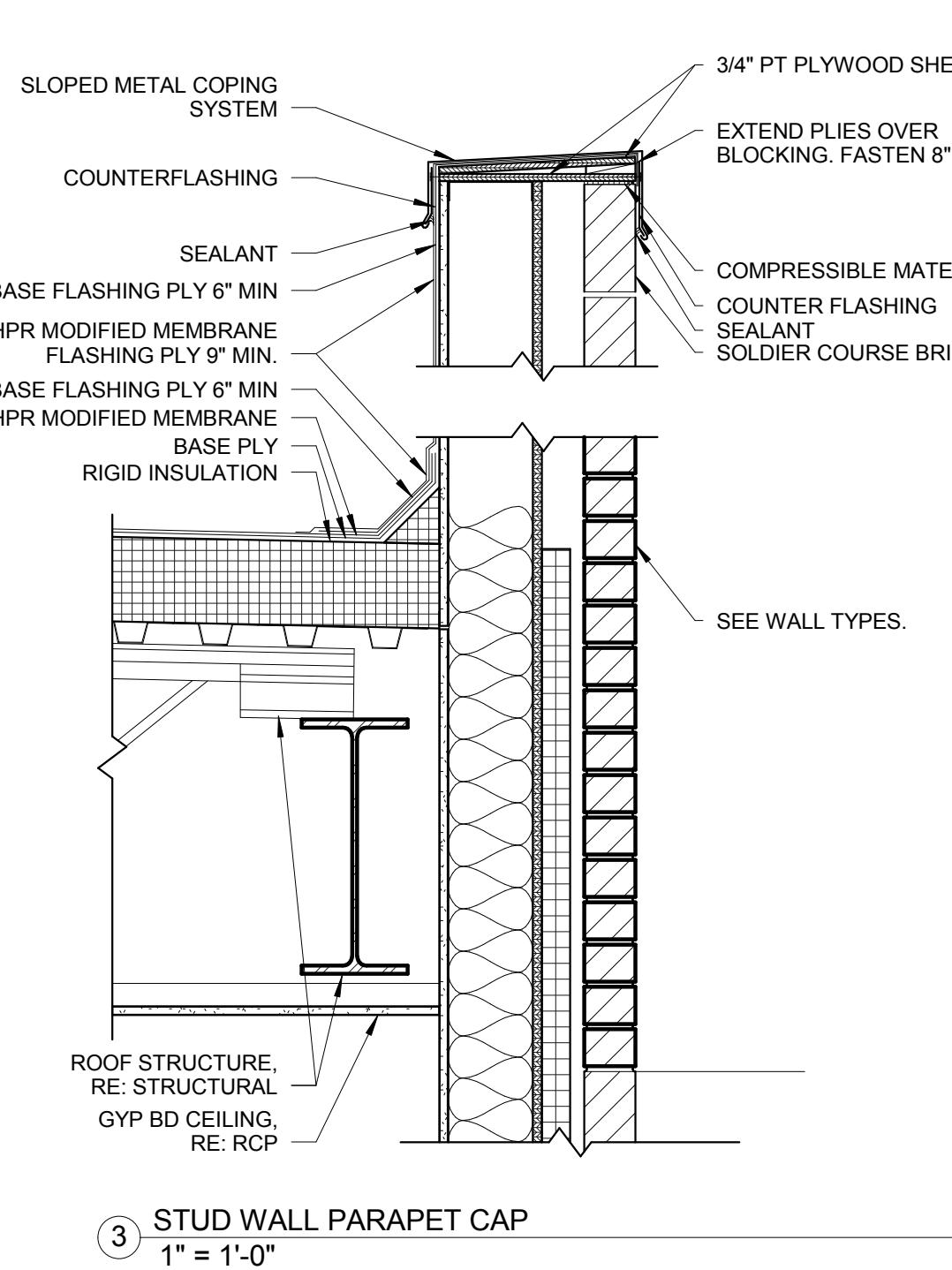
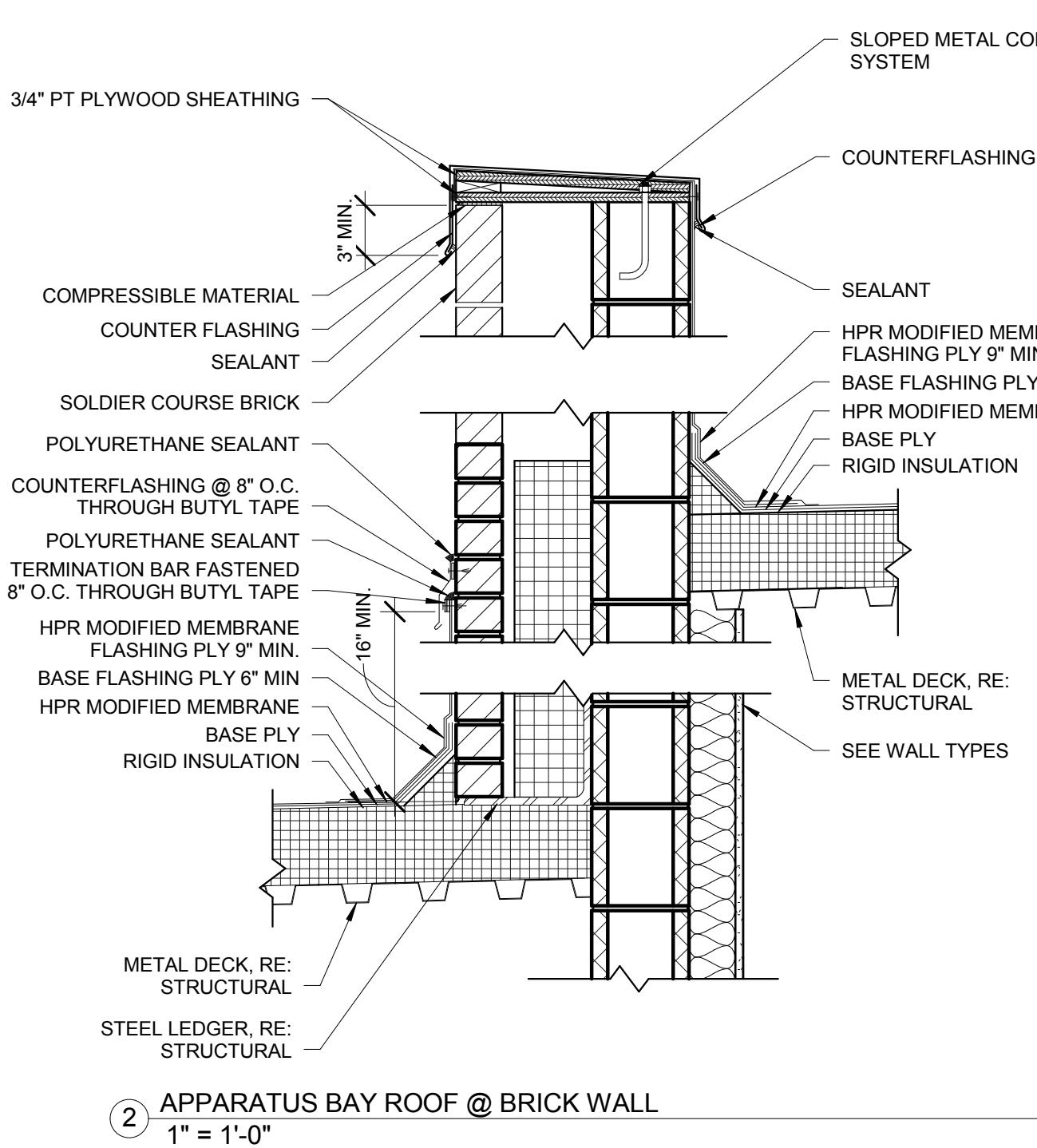
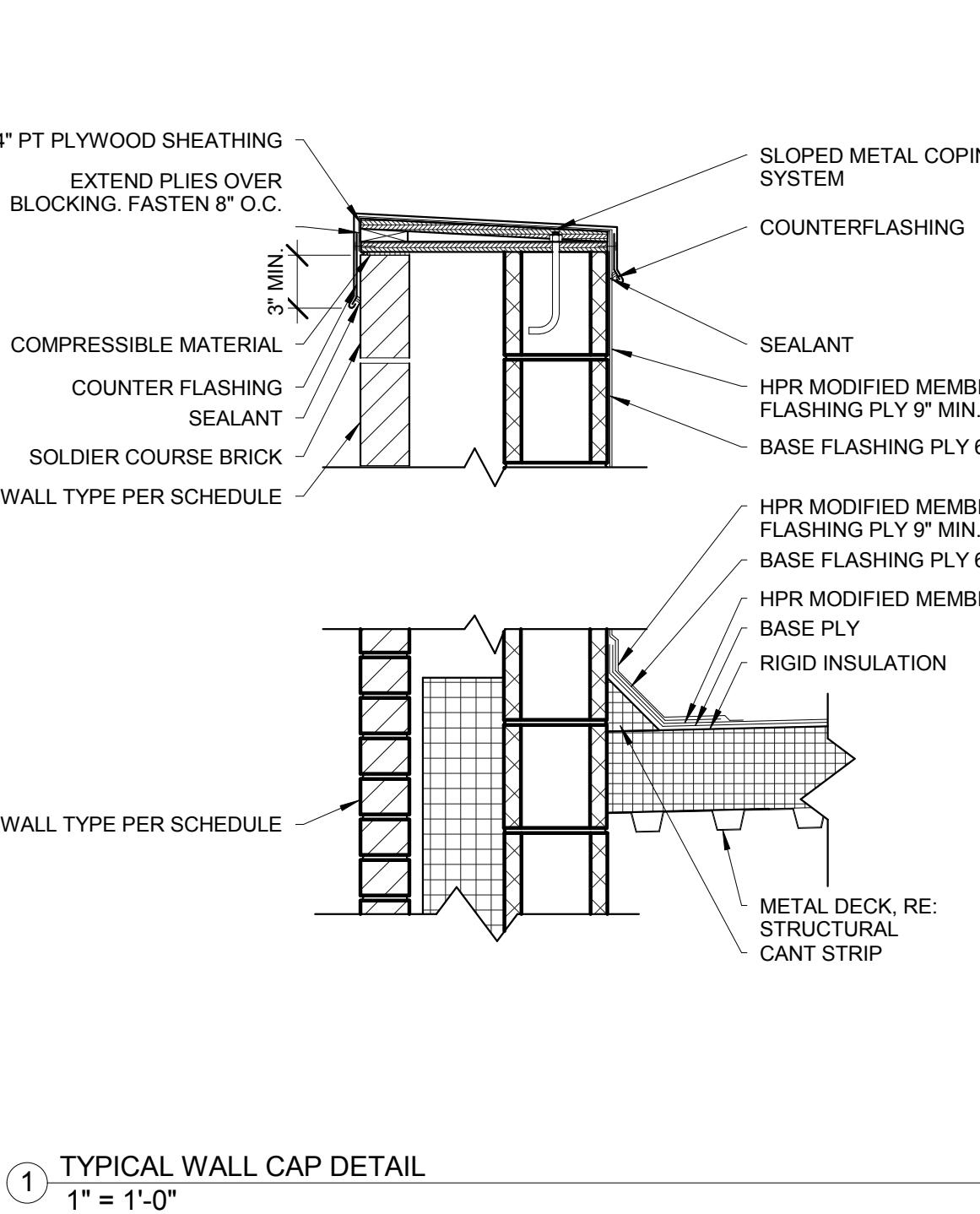
ROOF PLAN
1/8" = 1'-0"

NORTH

02.02.16

NOT FOR CONSTRUCTION

CONSULTANT:



REVIEWS:

MARK	DATE	DESCRIPTION

PROJECT PHASE	75% CD'S
PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	J. Chatfield, C. Clay, R. Stewart
SHEET NAME:	

DETAILS

SHEET NUMBER:

A501

COLE ARCHITECTS

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Seattle, WA 98115 | (206) 522-3520

STAMP:

NOT FOR CONSTRUCTION

CONSULTANT:

PROJECT INFORMATION:



City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE | 75% CD'S

PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield

DRAWN BY: J. Chatfield, C. Clay, R. Stewart

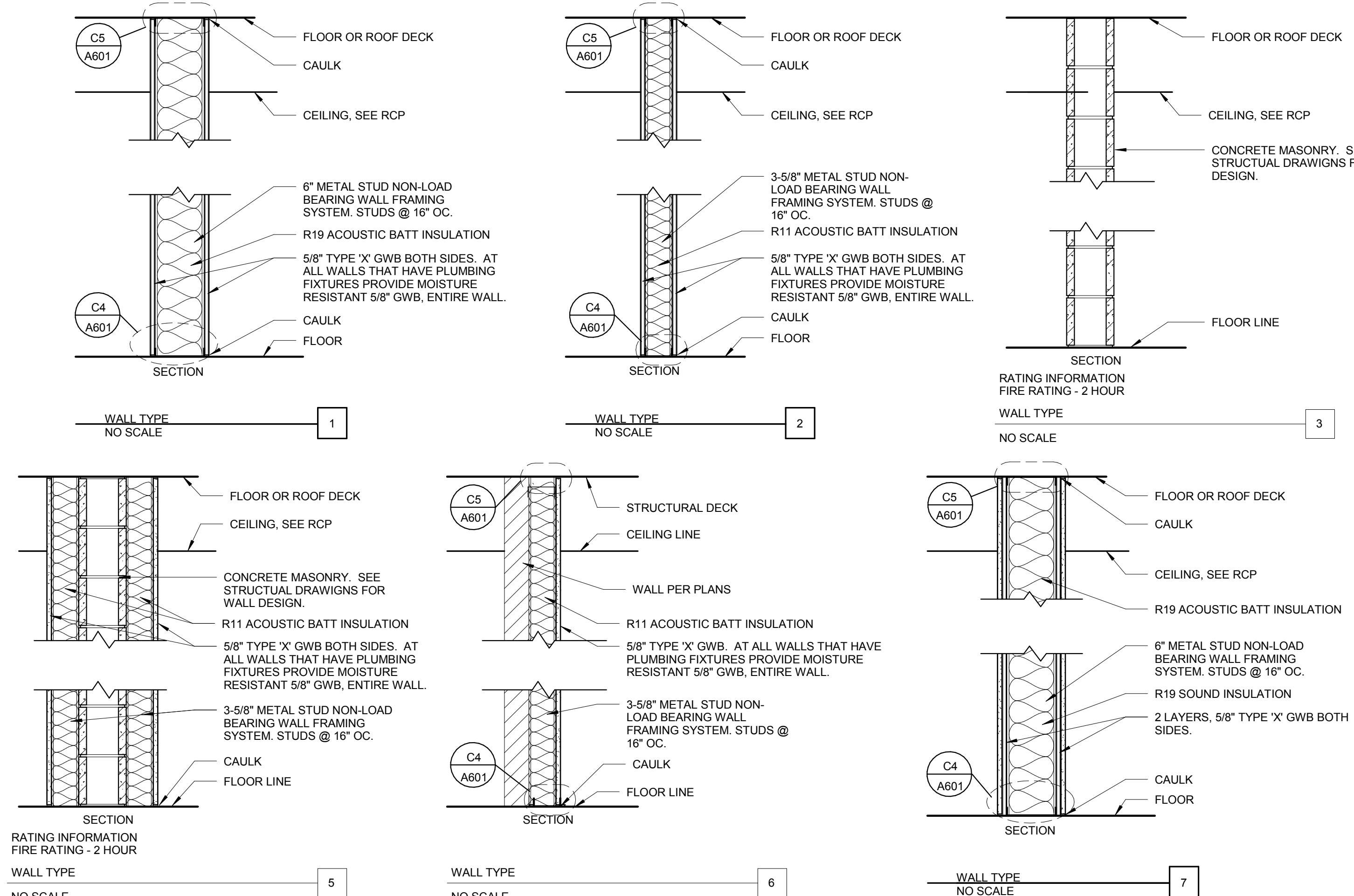
SHEET NAME:

SHEET NUMBER:

A600

INTERIOR WALL TYPES LEGEND

*SEE BUILDING SECTIONS, WALL SECTIONS, DETAILS AND STRUCTURAL DRAWINGS ADDITIONAL DESIGN INFORMATION.



GENERAL NOTES WALL TYPES:

A. REFERENCE WALL TYPES FROM FLOOR OR DIMENSION PLANS.

B. CONSTRUCT WALLS PER TYPICAL DETAILS ON SHEET A601.

1. STEEL STUD CONNECTION SCHEDULE.

2. JAMB AT VERTICAL OPENINGS.

3. WALL SECTION DETAILS.

4. SILL AT FRAMED OPENINGS.

5. BOX HEADER.

6. COLD ROLLED CHANNEL BRIDGING.

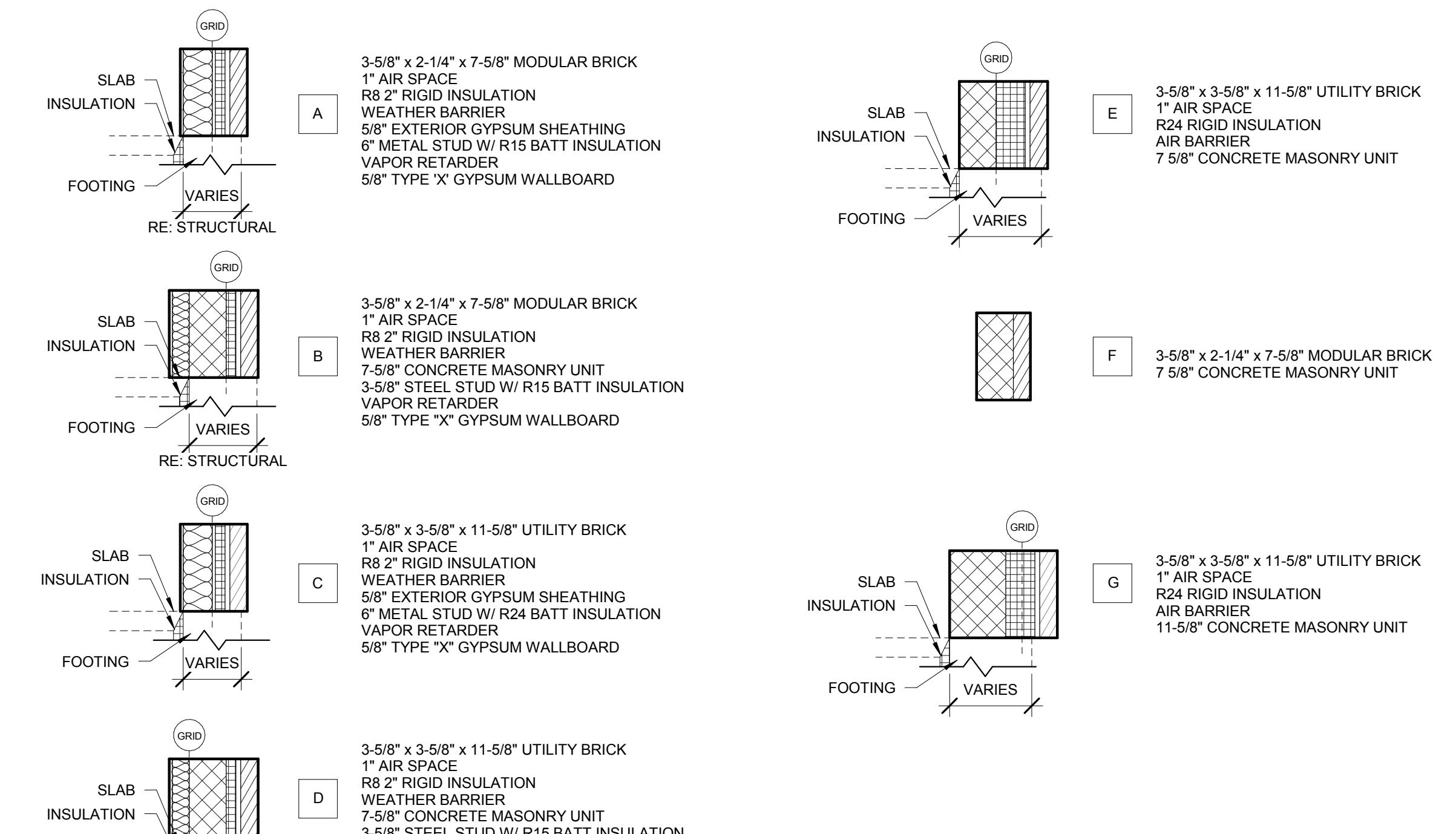
WALL TYPES - INTERIOR

1" = 1'-0"

EXTERIOR WALL TYPES LEGEND

*SEE BUILDING SECTIONS, WALL SECTIONS, DETAILS AND STRUCTURAL DRAWINGS ADDITIONAL DESIGN INFORMATION.

SECTION VIEW (INTERIOR (LEFT) - EXTERIOR (RIGHT))



WALL TYPES - EXTERIOR

1/2" = 1'-0"

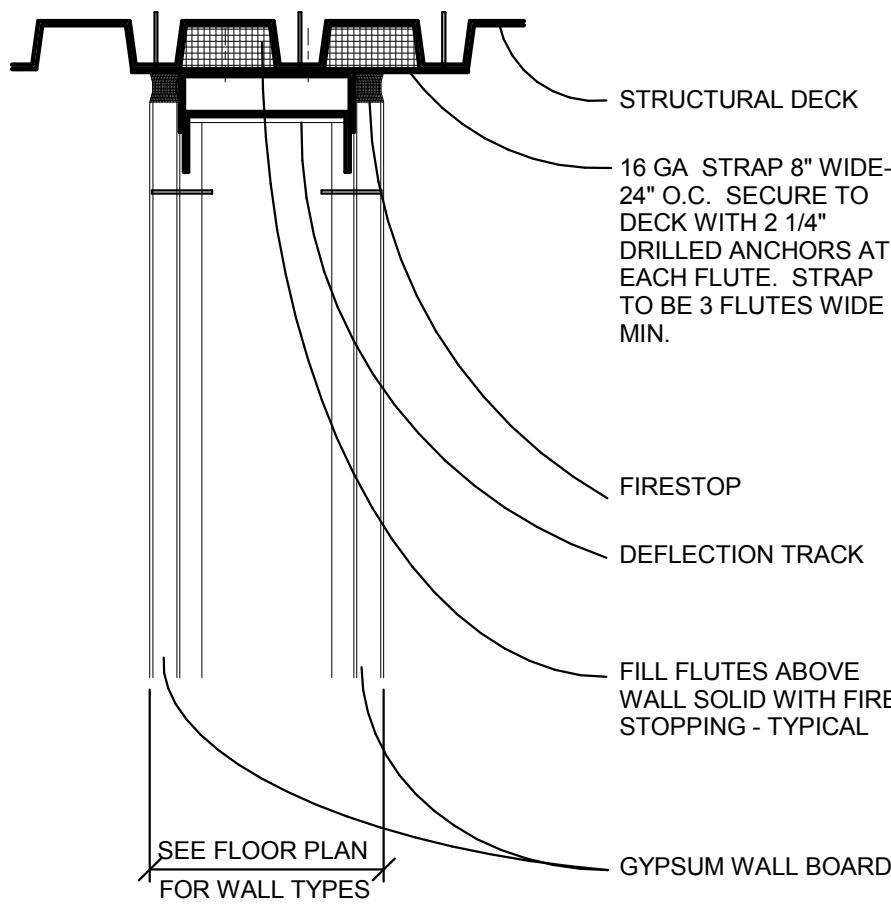


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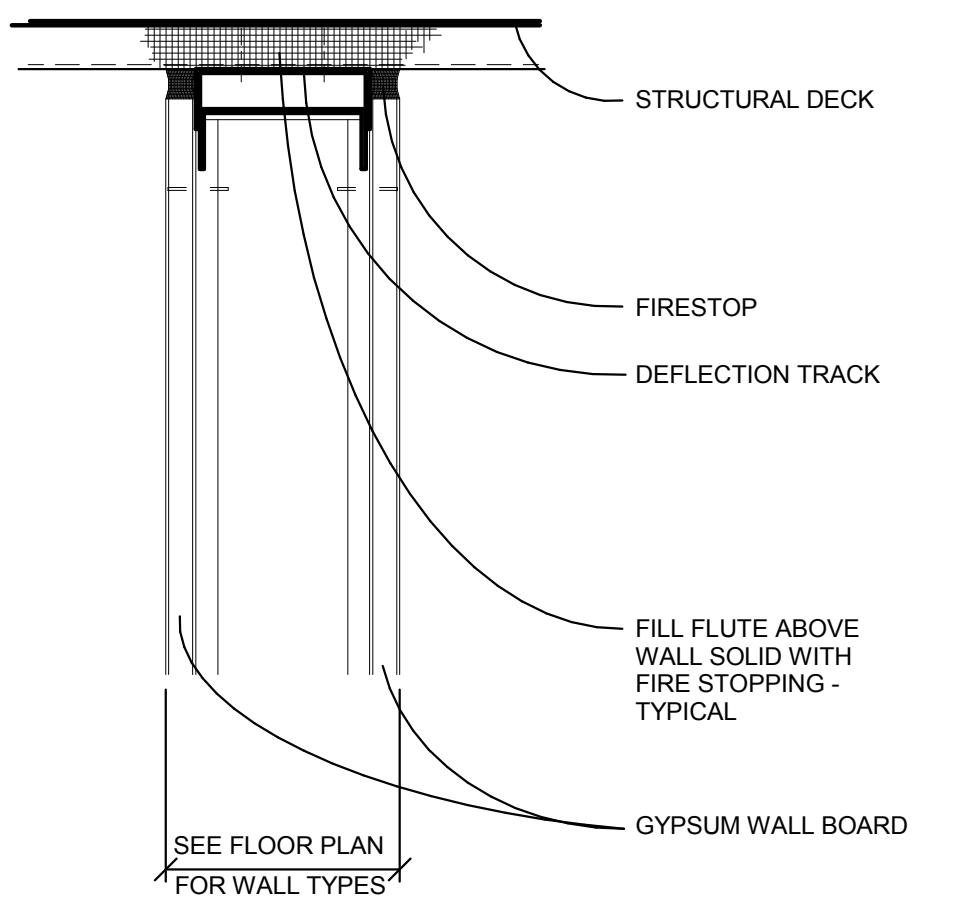
NOT FOR CONSTRUCTION

GENERAL NOTES WALL TYPES:

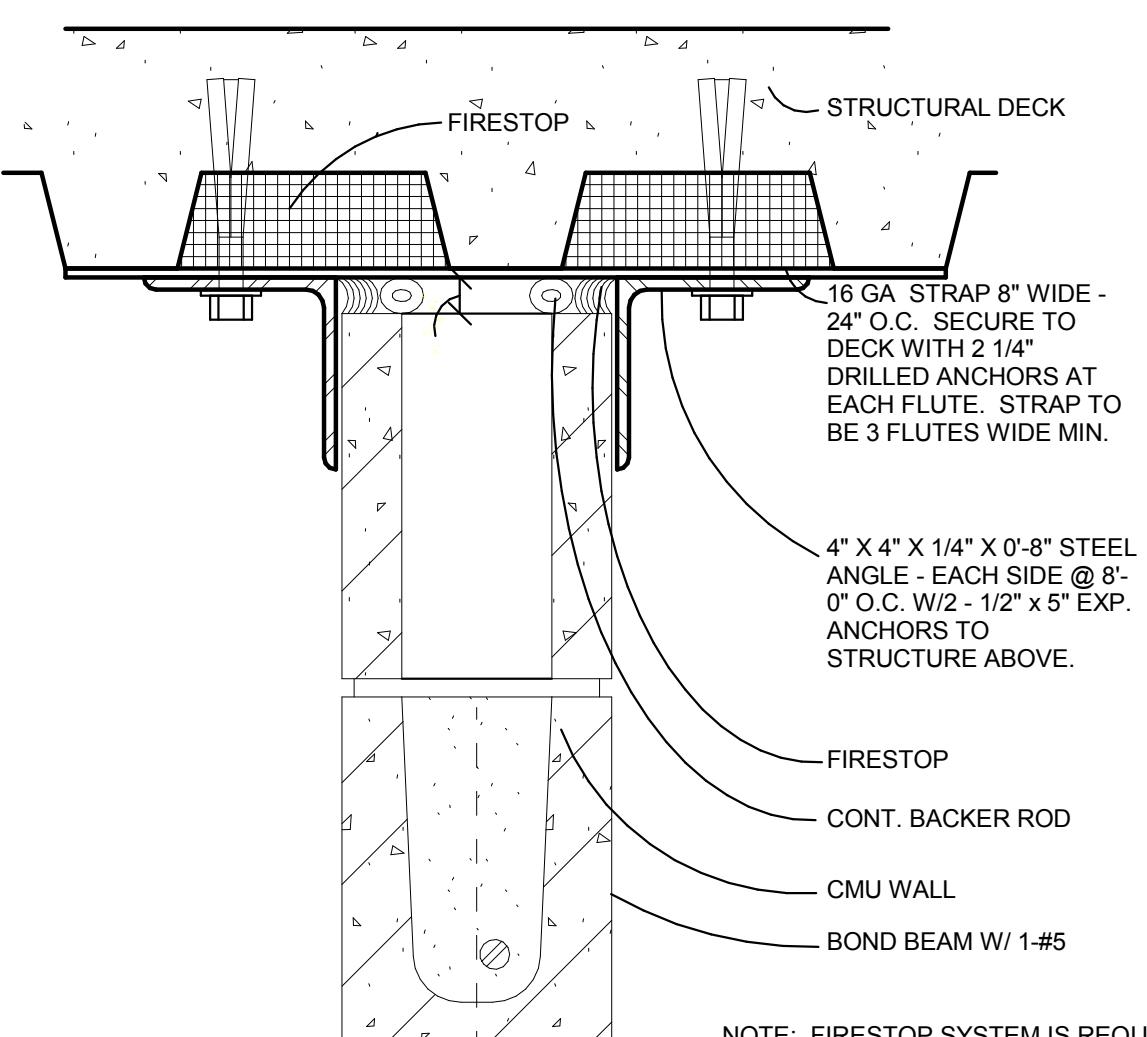
- A. REFERENCE WALL TYPES FROM FLOOR OR DIMENSION PLANS.
 B. CONSTRUCT WALLS PER TYPICAL DETAILS ON SHEET A601.
 1. STEEL STUD CONNECTION SCHEDULE.
 2. JAMB AT VERTICAL OPENINGS.
 3. WALL INTERSECTIONS.
 4. SILICATE FRIED OPENINGS.
 5. BOX HEADER.
 6. COLD ROLLED CHANNEL BRIDGING.



NOTE: FIRESTOP SYSTEM IS REQUIRED ONLY AT RATED WALLS
 REFER TO LIFE SAFETY PLANS FOR LOCATIONS. USE APPROPRIATE
 UL LISTED ASSEMBLY BASED ON WALL AND STRUCTURAL DECK
 CONSTRUCTION.



NOTE: FIRESTOP SYSTEM IS REQUIRED ONLY AT RATED WALLS
 REFER TO LIFE SAFETY PLANS FOR LOCATIONS. USE APPROPRIATE
 UL LISTED ASSEMBLY BASED ON WALL AND STRUCTURAL DECK
 CONSTRUCTION.

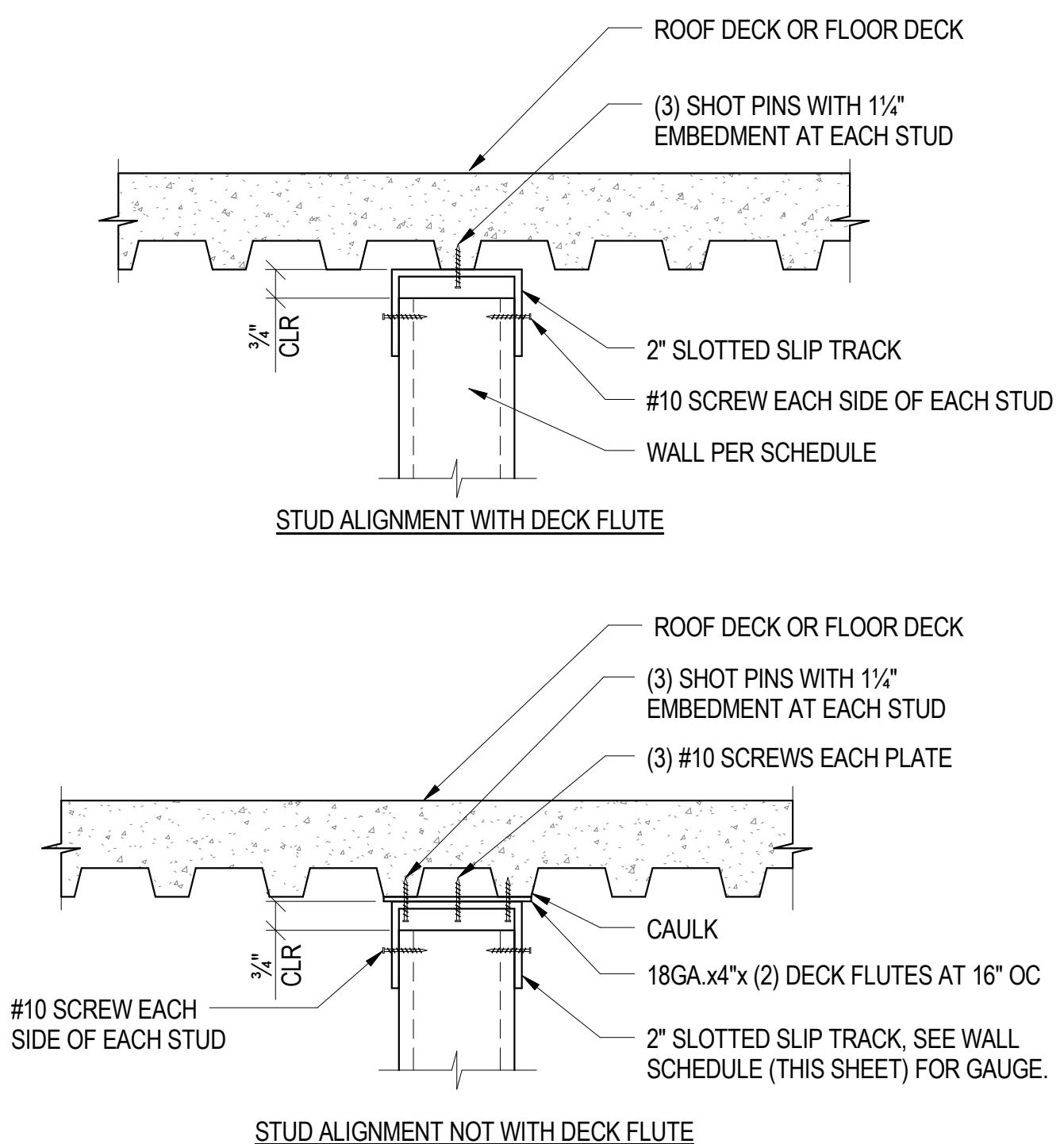


NOTE: FIRESTOP SYSTEM IS REQUIRED ONLY
 AT RATED WALLS. REFER TO LIFE SAFETY
 PLANS FOR LOCATIONS. USE APPROPRIATE UL
 LISTED ASSEMBLY BASED ON WALL AND
 STRUCTURAL DECK CONSTRUCTION.

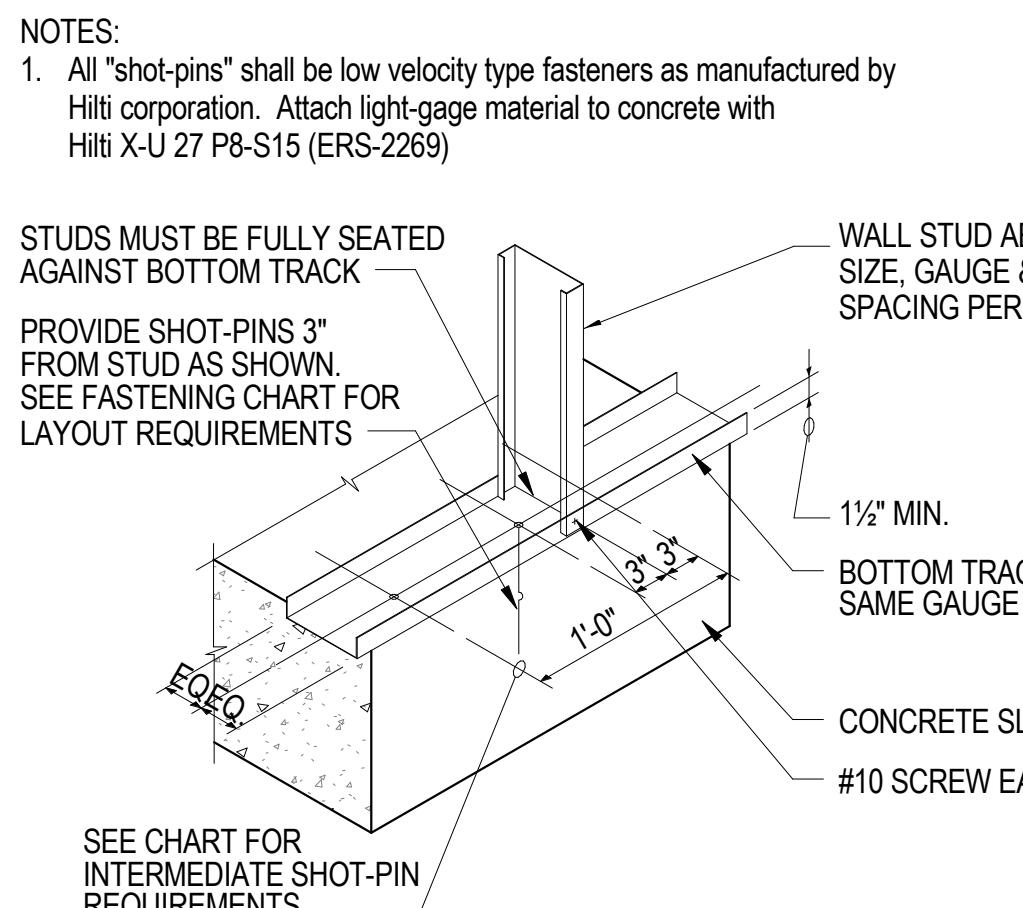
5B FIRESTOPPING WALL PARALLEL TO FLUTES
 NO SCALE

4B FIRESTOPPING WALL PERPENDICULAR TO FLUTES
 NO SCALE

5B FIRESTOPPING MASONRY WALL ATTACHMENT TO METAL DECK
 NO SCALE

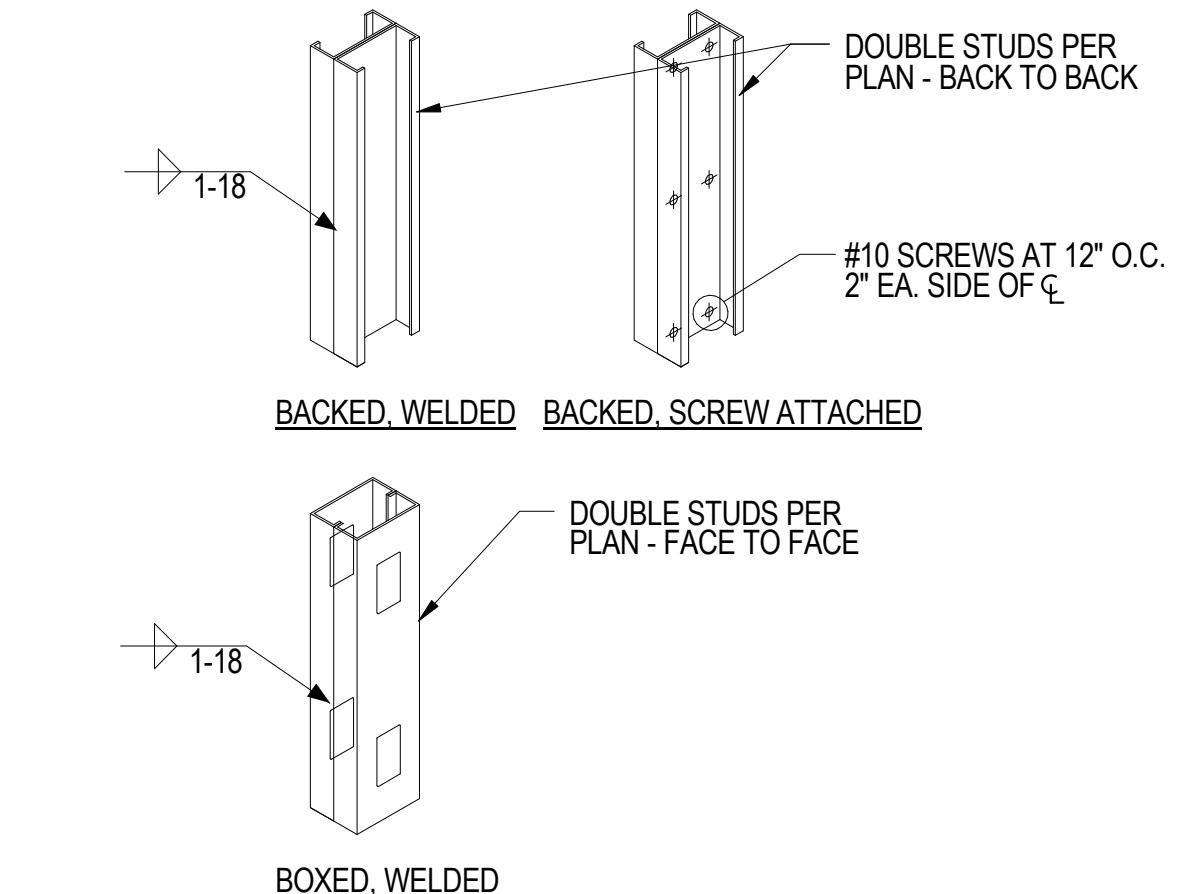


FASTENING CHART	
WALL CONDITION	FASTENING REQUIREMENT
FULL HEIGHT STUD WALLS	(1) SHOT-PIN @ 24" O.C., PROVIDE (1) SHOT-PIN WITHIN 9" OF WALL END OR JAMB

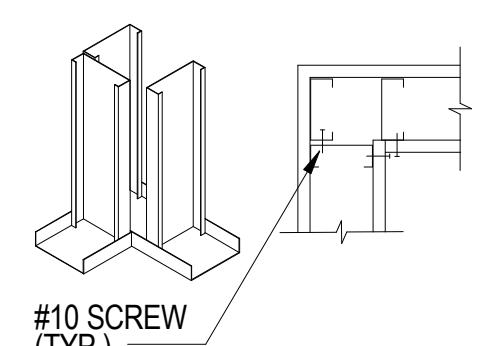


DEPTH OF TRACK OR STUDS	STUD SCREWS TO JAMB	TRACK SCREWS TO JAMB
12 INCHES	2-ROWS OF 4 EACH SIDE 16-TOTAL	1-ROW OF 4 TOP AND BOTTOM 8-TOTAL
10 INCHES	2-ROWS OF 3 EACH SIDE 12-TOTAL	1-ROW OF 4 TOP AND BOTTOM 8-TOTAL
8 INCHES	2-ROWS OF 3 EACH SIDE 12-TOTAL	1-ROW OF 3 TOP AND BOTTOM 6-TOTAL
6 INCHES	2-ROWS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

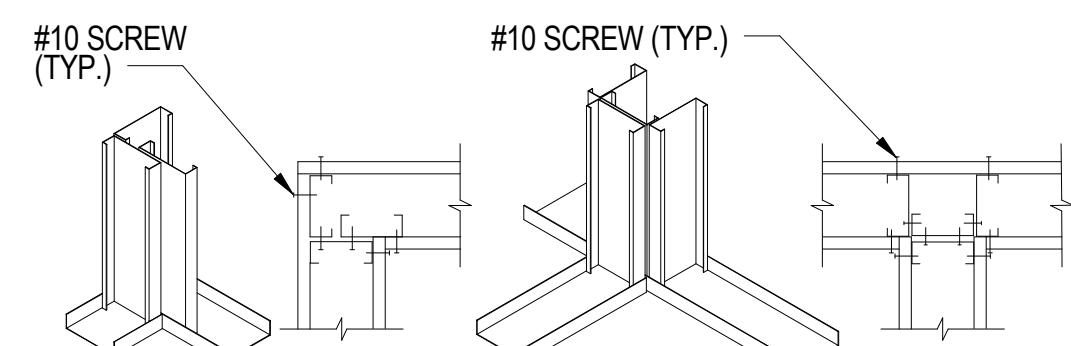
NOTE:
 1. All connections are to be made with #10 screws.



C5 WALL TYPES - METAL STUD - SLIP TRACK CONNECTION
 $3/4" = 1'-0"$

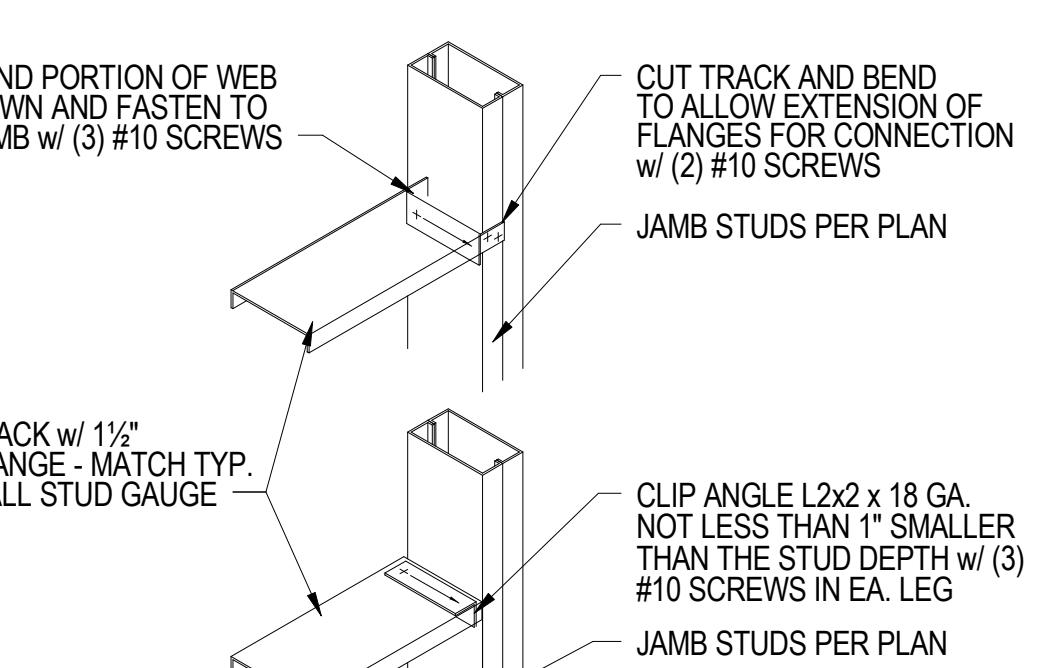


TYPICAL EXT. OR INT. CORNER



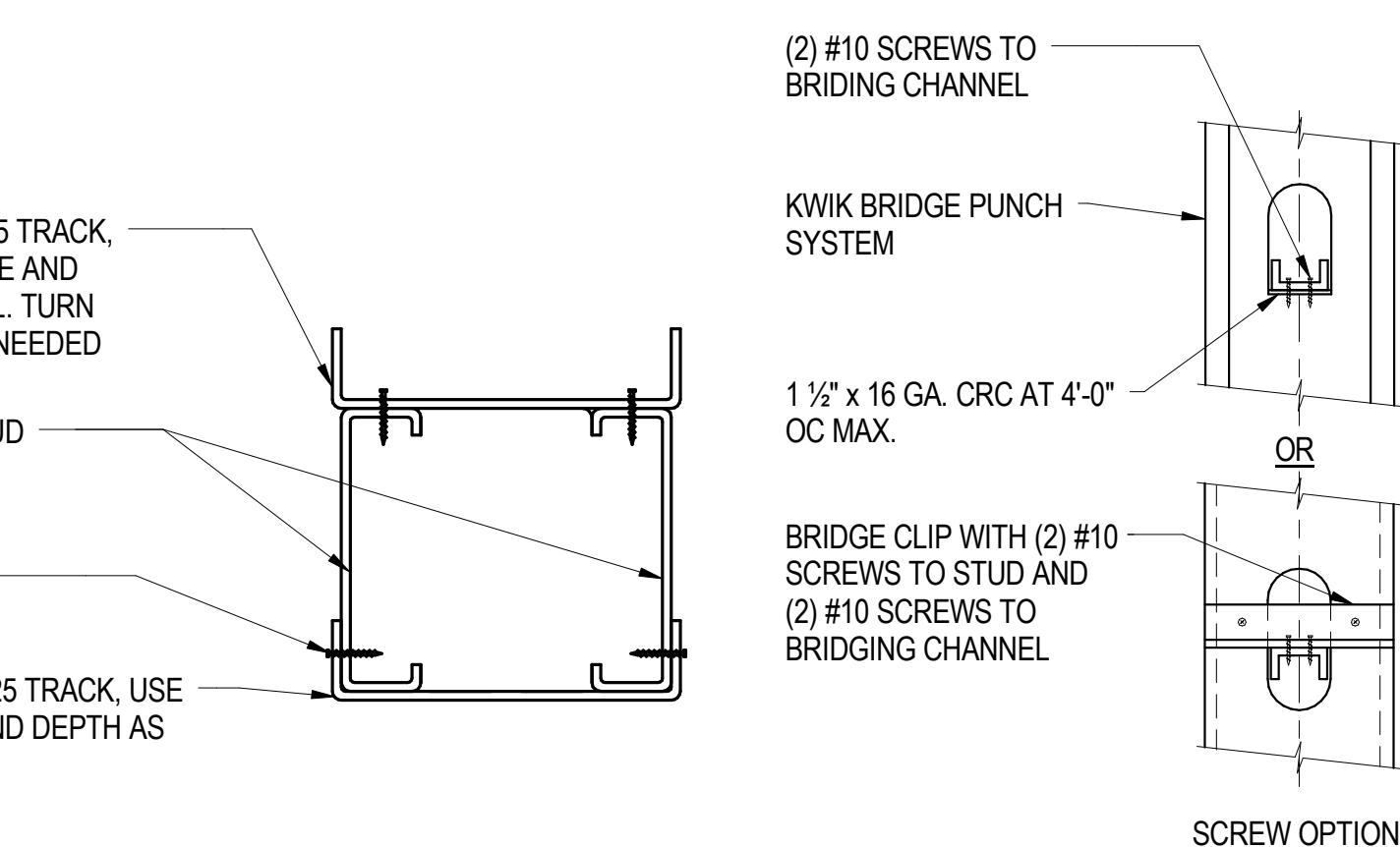
TYPICAL INT. CORNER
 WALL TYPES - METAL STUD - WALL
 INTERSECTIONS
 $3/4" = 1'-0"$

C4 WALL TYPES - METAL STUD - TYP. BOT.
 TRACK ANCHORAGE TO CONC SLAB-ON
 GRADE OR ELEVATED DECK
 $3/4" = 1'-0"$



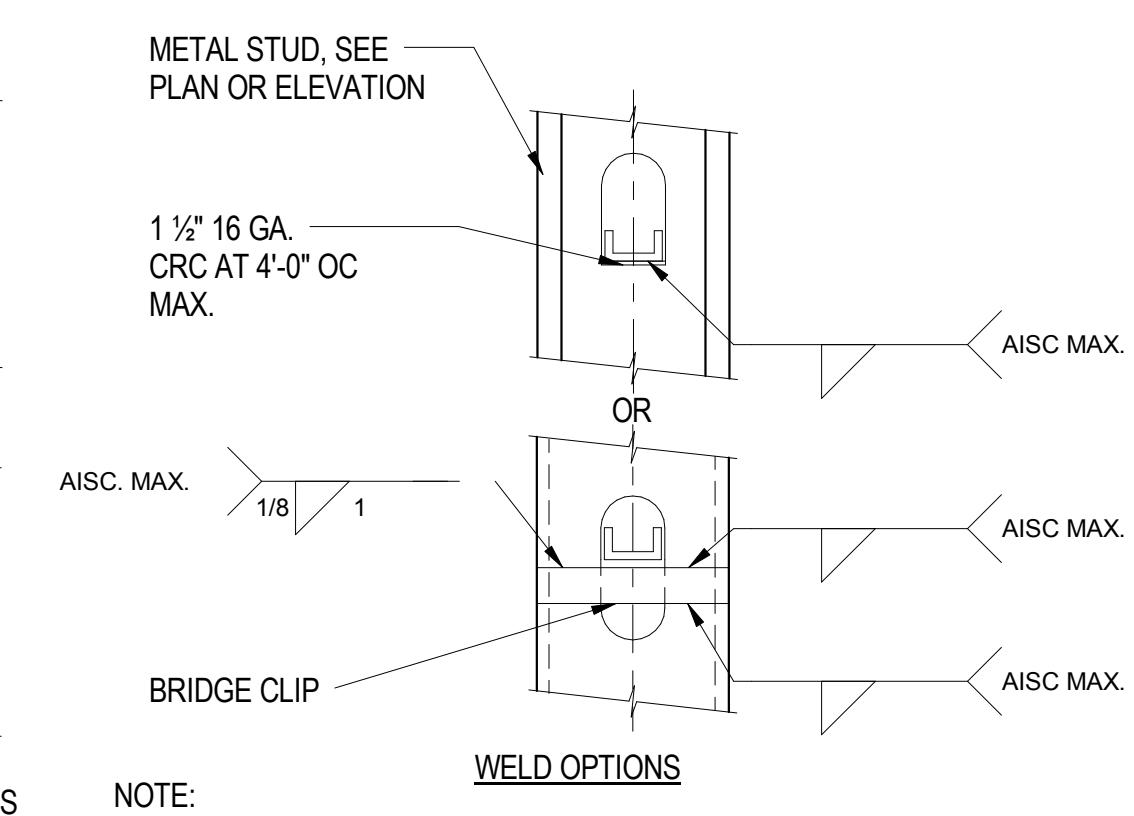
WALL TYPES - METAL STUD - SILL AT
 FRAMED OPENINGS
 $3/4" = 1'-0"$

C2 WALL TYPES - METAL STUD - STEEL
 STUD CONNECTION SCHEDULE
 $3/4" = 1'-0"$



WALL TYPES - METAL STUD -
 BOX HEADER
 $3/4" = 1'-0"$

C1 WALL TYPES - METAL STUD - JAMB AT
 VERTICAL OPENINGS
 $3/4" = 1'-0"$



NOTE:
 1. See steel stud manufacturers association (SSMA) for bridging requirements at interior non-structural walls.

PROJECT PHASE: 75% CD'S

PROJECT NUMBER: 15-27

PROJECT MANAGER: J. Chatfield

PROJECT ARCHITECT: J. Chatfield

DESIGN: J. Chatfield

DRAWN BY: J. Chatfield, C. Clay, R. Stewart

SHEET NAME:

WALL TYPES DETAILS

SHEET NUMBER:

A601

02.02.16

COLE ARCHITECTS

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Seattle, WA 98115 | (206) 522-3520

STAMP:

NOT FOR CONSTRUCTION

CONSULTANT:

PROJECT INFORMATION:

City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE: 75% CD'S

PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	J. Chatfield, C. Clay, R. Stewart

SHEET NAME:

DOOR SCHEDULE,
TYPES & DETAILS

SHEET NUMBER:

A700

DOOR AND FRAME SCHEDULE																		
IDENTIFICATION			DOOR						FRAME						HW			REMARKS
ROOM NO.	ROOM NAME	DOOR NO.	W	H	T	TYPE	MATL	FINISH	GLAZING	TYPE	MATL	FINISH	HEAD	JAMB	SILL	LBL	GROUP	ELECTRIC AL
100	LOBBY/AID	100	7'-8"	8'-10"	0'-1 3/4"	A	ALSF	CLR ANO	TG	1	ALSF	CLR ANO						
103	B.C. DORM	101A	3'-0"	7'-0"	0'-1 3/4"	D	WD	VEEN-1	TG	4	HM	PT-1						
103	B.C. DORM	101B	3'-0"	7'-0"	0'-1 3/4"	D	WD	VEEN-1	TG	5	HM	PT-1						
103	B.C. DORM	101C	3'-0"	7'-10"	0'-1 3/4"	B	ALSF	CLR ANO	TG	2	ALSF	CLR ANO						
102	B.C. OFFICE	102	3'-0"	7'-0"	0'-1 3/4"	D	WD	VEEN-1	TG	4	HM	PT-1						
103	B.C. DORM	103	3'-0"	7'-0"	0'-1 3/4"	C	WD	VEEN-1	-	4	HM	PT-1						
103	B.C. DORM	104	3'-0"	7'-0"	0'-1 3/4"	C	WD	VEEN-1	-	4	HM	PT-1						
103	B.C. DORM	105	3'-0"	7'-0"	0'-1 3/4"	C	WD	VEEN-1	-	4	HM	PT-1						
105	CAPT. DORM	106	3'-0"	7'-0"	0'-1 3/4"	C	WD	VEEN-1	-	4	HM	PT-1						
103	B.C. DORM	107	3'-0"	7'-0"	0'-1 3/4"	C	WD	VEEN-1	-	4	HM	PT-1						
107	CAPT. DORM	108	3'-0"	7'-0"	0'-1 3/4"	C	WD	VEEN-1	-	4	HM	PT-1						
110	DORM	110	3'-0"	7'-0"	0'-1 3/4"	C	WD	VEEN-1	-	4	HM	PT-1						
111	DORM	111	3'-0"	7'-0"	0'-1 3/4"	C	WD	VEEN-1	-	4	HM	PT-1						
112	DORM	112	3'-0"	7'-0"	0'-1 3/4"	C	WD	VEEN-1	-	4	HM	PT-1						
113	DORM	113	3'-0"	7'-0"	0'-1 3/4"	C	WD	VEEN-1	-	4	HM	PT-1						
114	STORAGE	114	3'-0"	7'-0"	0'-1 3/4"	C	WD	VEEN-1	-	4	HM	PT-1						
115	DORM	115	3'-0"	7'-0"	0'-1 3/4"	C	WD	VEEN-1	-	4	HM	PT-1						
116	DORM	116	3'-0"	7'-0"	0'-1 3/4"	C	WD	VEEN-1	-	4	HM	PT-1						
117	DORM	117	3'-0"	7'-0"	0'-1 3/4"	C	WD	VEEN-1	-	4	HM	PT-1						
103	B.C. DORM	118	3'-0"	7'-0"	0'-1 3/4"	C	WD	VEEN-1	-	4	HM	PT-1						
103	B.C. DORM	119	3'-0"	7'-0"	0'-1 3/4"	C	WD	VEEN-1	-	4	HM	PT-1						
120	SHOWER/ RESTROOM	120	3'-0"	7'-0"	0'-1 3/4"	C	WD	VEEN-1	-	4	HM	PT-1						
103	B.C. DORM	121	3'-0"	7'-0"	0'-1 3/4"	C	WD	VEEN-1	-	4	HM	PT-1						
103	B.C. DORM	122	3'-0"	7'-0"	0'-1 3/4"	C	WD	VEEN-1	-	4	HM	PT-1						
126	ELECT RM	125	3'-0"	7'-0"	0'-1 3/4"	C	WD	VEEN-1	-	4	HM	PT-1						
126	ELECT RM	126	3'-0"	7'-0"	0'-1 3/4"	C	WD	VEEN-1	-	4	HM	PT-1						
103	B.C. DORM	127	3'-0"	7'-0"	0'-1 3/4"	C	WD	VEEN-1	-	4	HM	PT-1						
135	APPARATUS	128	3'-0"	7'-0"	0'-1 3/4"	C	WD	VEEN-1	-	5	HM	PT-1						
135	APPARATUS	129	3'-0"	7'-0"	0'-1 3/4"	C	WD	VEEN-1	-	5	HM	PT-1						
133	CAPT. OFFICE	133	3'-0"	7'-0"	0'-1 3/4"	D	WD	VEEN-1	TG	4	HM	PT-1						
135	APPARATUS	135A	14'-0"	14'-0"	0'-1 3/4"	H	MTL	FF	TG	HM	PT-2							
135	APPARATUS	135B	14'-0"	14'-0"	0'-1 3/4"	H	MTL	FF	TG	HM	PT-2							
135	APPARATUS	135C	14'-0"	14'-0"	0'-1 3/4"	H	MTL	FF	TG	HM	PT-2							
135	APPARATUS	135D	14'-0"	14'-0"	0'-2"	I	MTL	FF	TG	HM	PT-2							
135	APPARATUS	135E	14'-0"	14'-0"	0'-2"	I	MTL	FF	TG	HM	PT-2							
135	APPARATUS	135F	14'-0"	14'-0"	0'-2"	I	MTL	FF	TG	HM	PT-2							
135	APPARATUS	135G	3'-0"	7'-0"	0'-1 3/4"	D	MTL	PT-2	TG	5	HM	PT-2						
135	APPARATUS	136	3'-0"	7'-0"	0'-1 3/4"	C	WD	VEEN-1	-	5	HM	PT-1						
135	APPARATUS	137	3'-0"	7'-0"	0'-1 3/4"	C	WD	VEEN-1	-	5	HM	PT-1						
138	MAINTENANCE/ SHOP	138	6'-0"	7'-0"	0'-1 3/4"	E	WD	VEEN-1	-	5	HM	PT-1						
139	FIRE RISER	139	3'-0"	7'-0"	0'-1 3/4"	C	MTL	PT-2	-	5	HM	PT-2						
140	SCBA FILLCASCADE	140	6'-0"	7'-0"	0'-1 3/4"	E	WD	VEEN-1	-	5	HM	PT-1						
135	APPARATUS	141	3'-0"	7'-0"	0'-1 3/4"	C	WD	VEEN-1	-	5	HM	PT-1						
142	STORAGE	142	6'-0"	7'-0"	0'-1 3/4"	E	WD	VEEN-1	-	4	HM	PT-1						
143	STOR.																	



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GENERAL NOTES WINDOWS:

- A. CONTRACTOR TO FIELD MEASURE EACH WINDOW PRIOR TO FABRICATION. NOTIFY ARCHITECT IF MEASUREMENTS DIFFER FROM ARCHITECTURE PLANS.
- B. INSTALL EXTERIOR WINDOWS PER EXTERIOR WEATHER BARRIER WRAP DIAGRAM THIS SHEET.

A

NOT FOR CONSTRUCTION

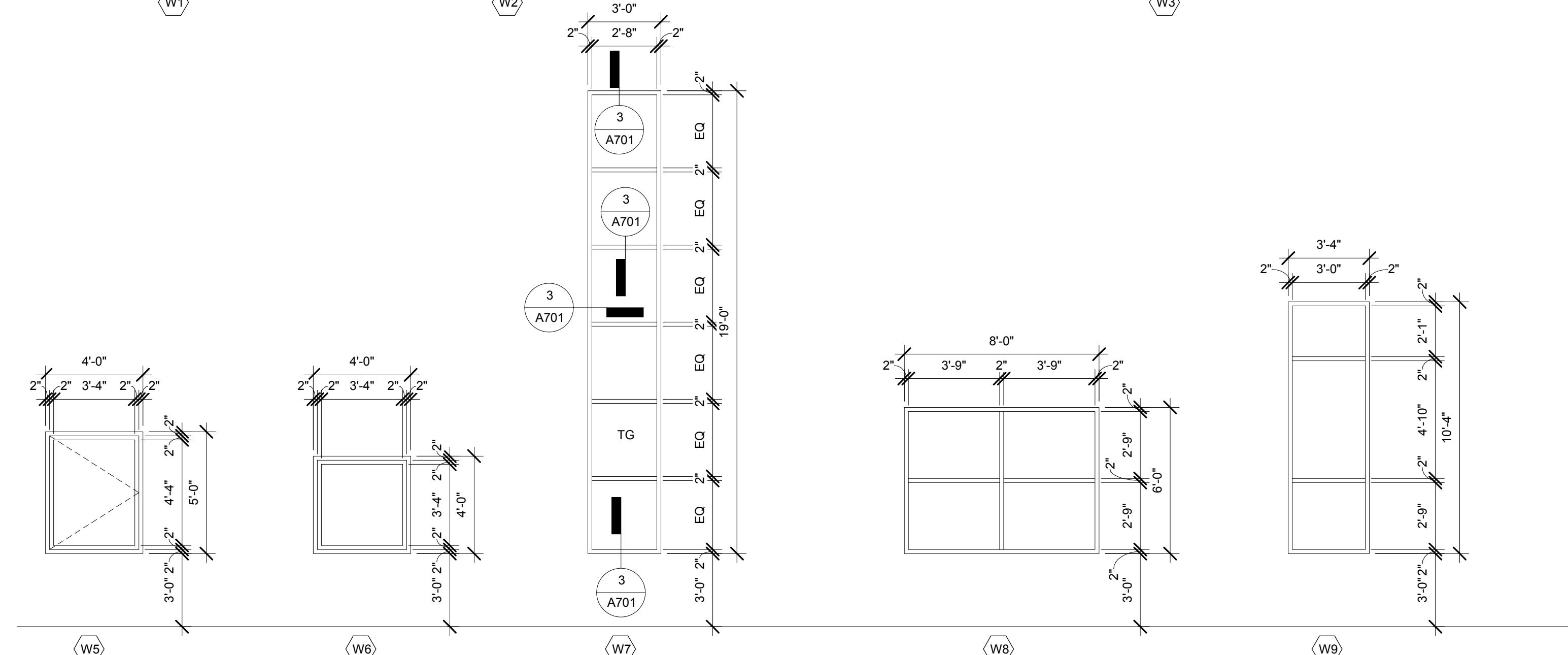
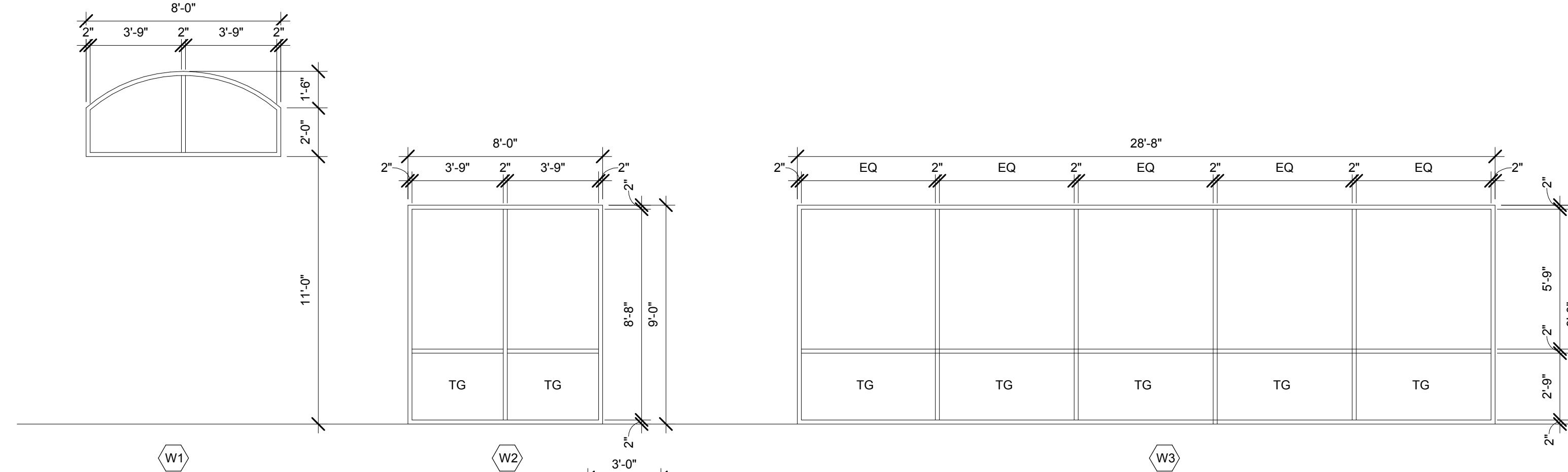
CONSULTANT:

City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704REVISIONS:
MARK DATE DESCRIPTION

PROJECT PHASE	75% CD'S
PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	J. Chatfield, C. Clay, R. Stewart

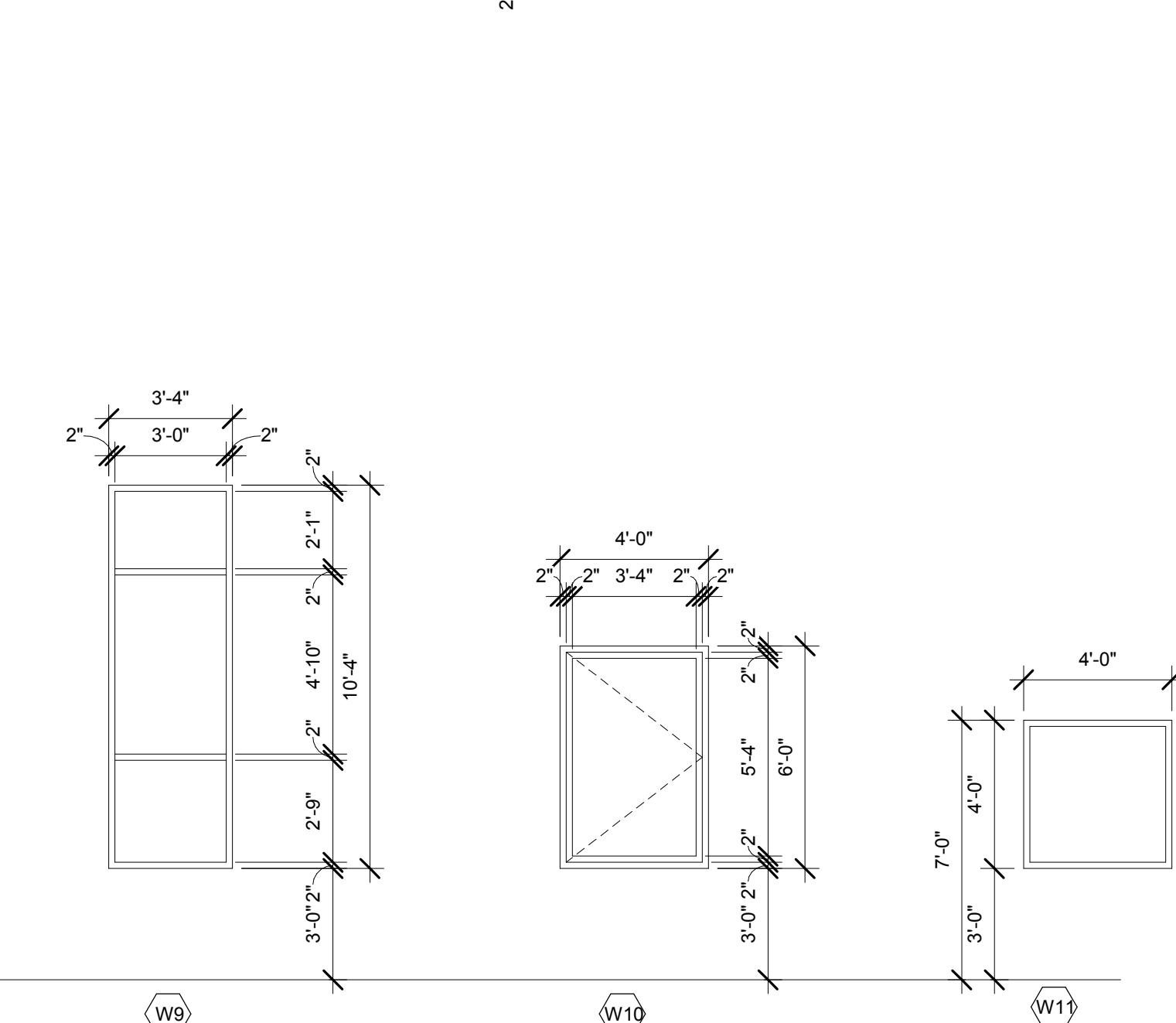
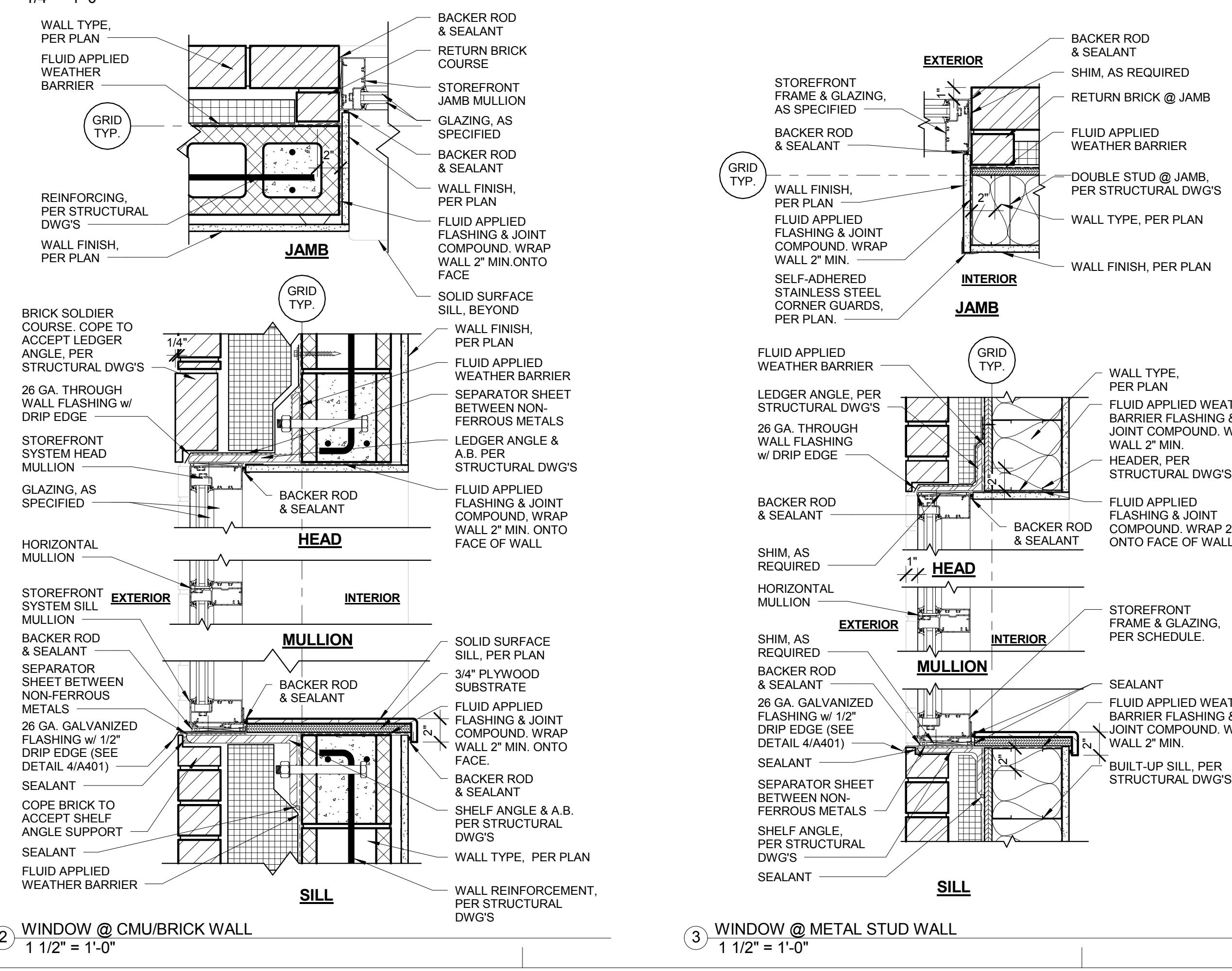
SHEET NAME:

SHEET NUMBER:	A701
02.02.16	



WINDOW TYPES

1/4" = 1'-0"



ABBREVIATIONS:

ABBREVIATION	DESCRIPTION
TG	TEMPERED SAFETY GLAZING
SG	SPECIAL GLAZING

WINDOW TYPES & DETAILS

SHEET NUMBER:

A701

02.02.16



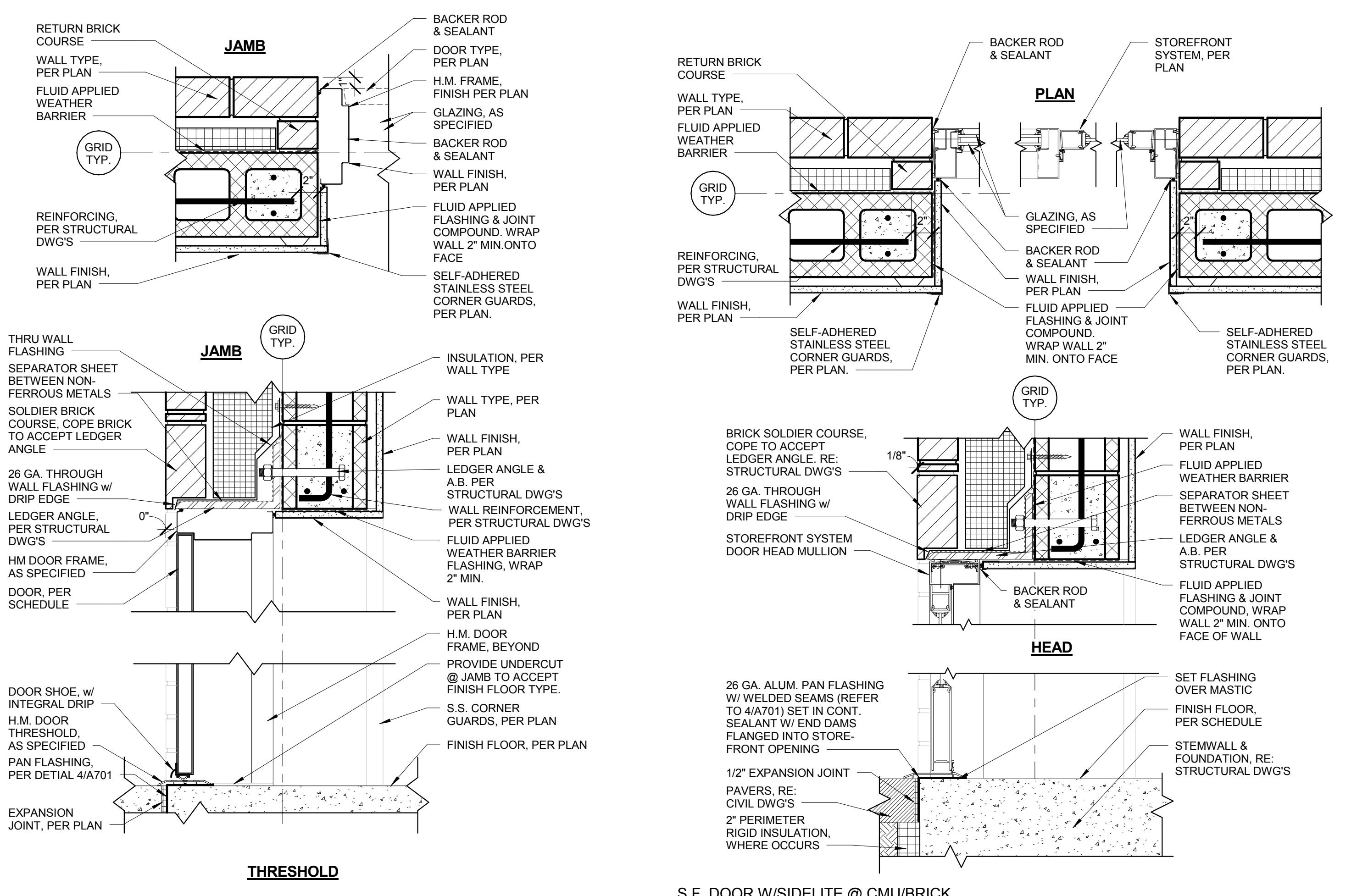
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Seattle, WA 98115 | (206) 522-3520

STAMP:

GENERAL NOTES DOOR SCHEDULE:

A. REFER TO SHEET ID100 FOR ADDITIONAL FINISH ABBREVIATIONS.

(1) DOOR @ CMU/BRICK WALL
1 1/2" = 1'-0"(2) S.F. DOOR W/SIDELITE @ CMU/BRICK WALL
1 1/2" = 1'-0"

City of Boise Fire Station 4

8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE	75% CD'S
PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	J. Chatfield, C. Clay, R. Stewart

SHEET NAME:

DETAILS

A702

COLE ARCHITECTS

COLE ARCHITECTS | 802 W. BANNOCK SUITE 208
Boise, ID 83702 | (208) 345-3200

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TCA | 811 Roosevelt Way NE
Seattle, WA 98115 | (206) 522-3520

STAMP:

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CONSULTANT:

PROJECT INFORMATION:

City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE: 75% CD'S

PROJECT PHASE	75% CD'S
PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	J. Chatfield, C. Clay, R. Stewart

SHEET NAME:

1ST FLOOR
REFLECTED CEILING
PLAN

SHEET NUMBER:

A800

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 ON ONLY 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 AT 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 BC SECTION 603.9.1.1: SUSPENDED ACOUSTICAL CEILINGS. COMPLY WITH ASTM C635 AND C136.

I. INSTALL ALL SUSPENSION SYSTEMS FOR GYPSUM BOARD CEILINGS PER THE SPECIFICATIONS AND ASTM C754.

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 METAL DECK, CONDUIT, DUCTWORK, JOISTS, AND MISCELLANEOUS ITEMS ARE 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.

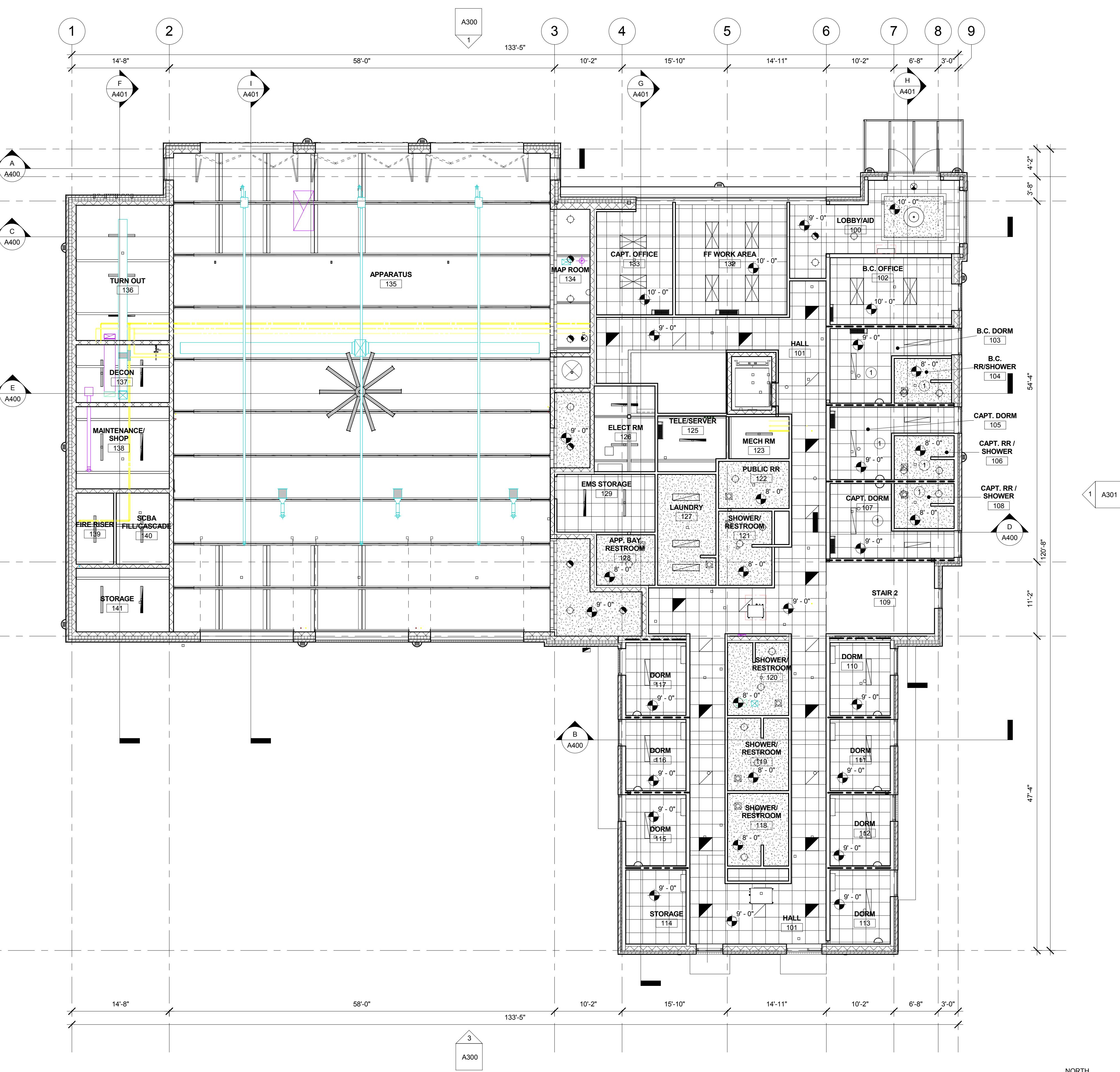
O. REFER TO MECHANICAL DRAWINGS FOR QUANTITY AND TYPE OF DIFFUSERS, RETURN AIR GRILLES, AND EXHAUST GRILLES. SCRIBE CEILING MATERIALS CAREFULLY FOR A TIGHT FIT.

RCP SYMBOL LEGEND

	2X4 ACOUSTICAL TILE CEILING SYSTEM
	GYPSUM CEILING - TEXTURED & PAINTED
	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
	HVAC RETURN, RE: MECHANICAL DRAWINGS

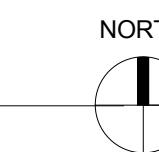
KEY NOTES:

1. 1 HR CEILING, CONSTRUCT PER xxxxxxxxxxxxxxx



1ST FLOOR REFLECTED CEILING

1/8" = 1'-0"



02.02.16



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Seattle, WA 98115 | (206) 522-3520

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CONSULTANT:

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 ON ONLY 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 AT 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 BC SECTION 803.9.1.1. SUSPENDED ACOUSTICAL CEILINGS. COMPLY WITH ASTM C635 AND C136.

I. INSTALL ALL SUSPENSION SYSTEMS FOR GYPSUM BOARD CEILINGS PER THE SPECIFICATIONS AND ASTM C754.

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.

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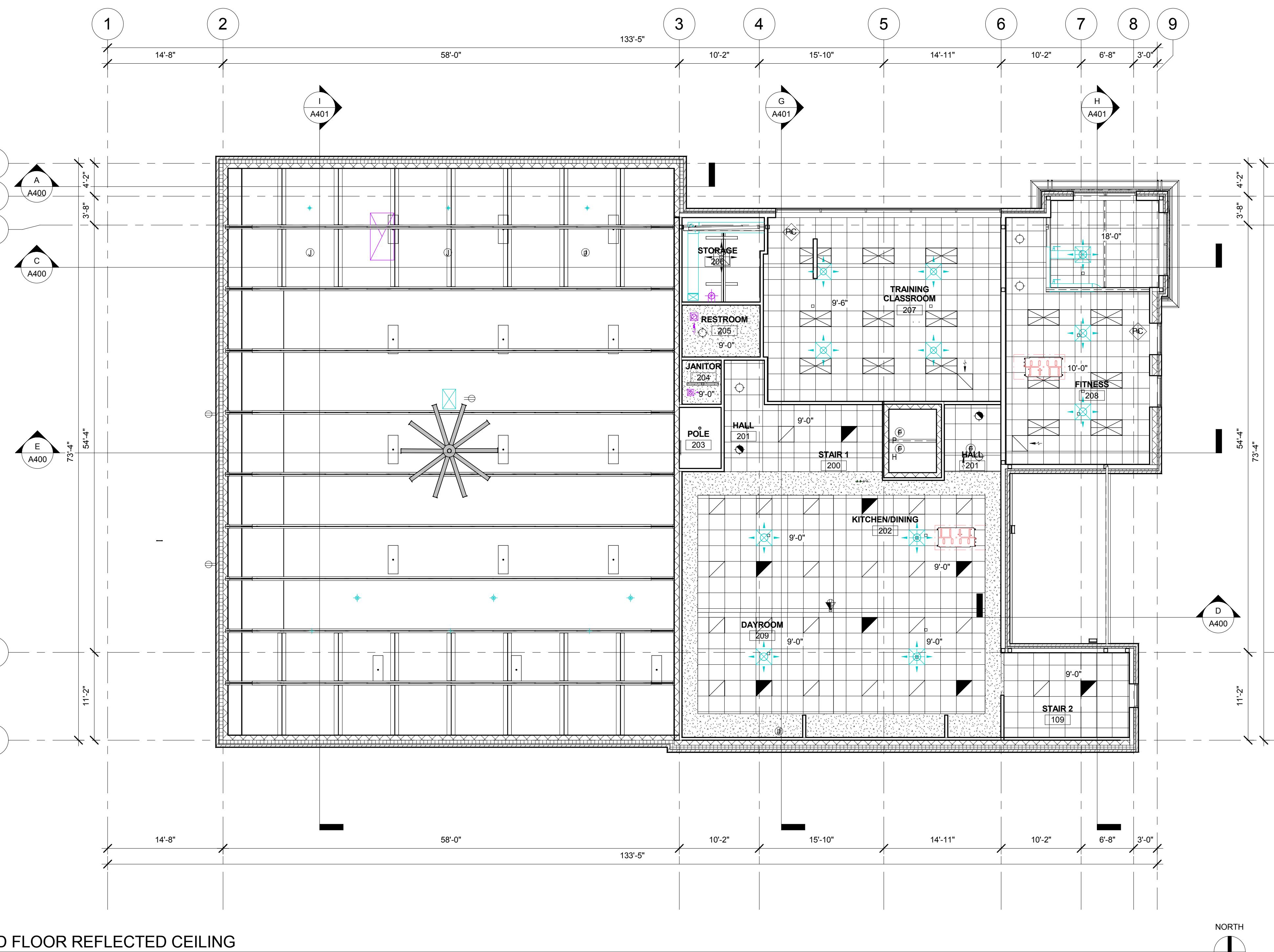
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	HVAC RETURN, RE: MECHANICAL DRAWINGS

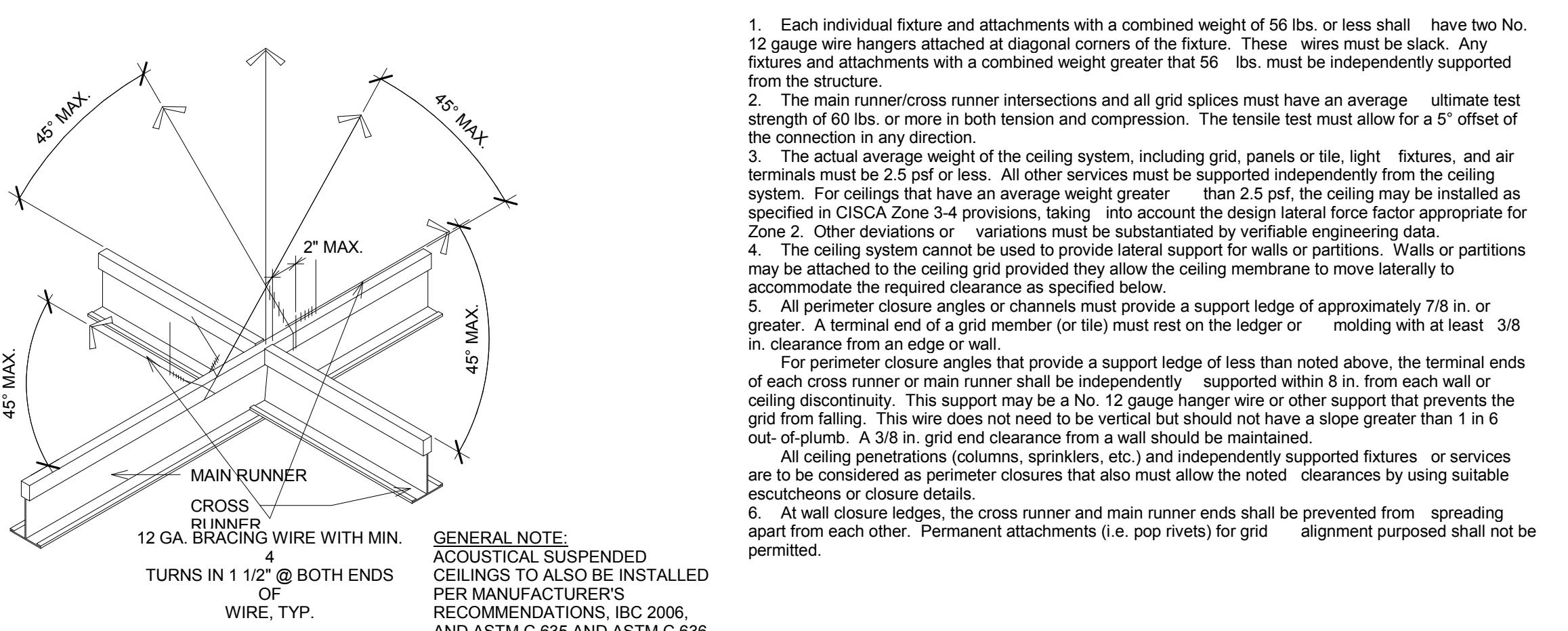
KEY NOTES:

1. XXX



2ND FLOOR REFLECTED CEILING

1/8" = 1'-0"

2ND FLOOR
REFLECTED CEILING
PLAN

A801

02.02.16

City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE: 75% CD'S

PROJECT NUMBER: 15-27

PROJECT MANAGER: J. Chatfield

PROJECT ARCHITECT: J. Chatfield

DESIGN: J. Chatfield

DRAWN BY: J. Chatfield, C. Clay, R. Stewart

SHEET NAME:

SHEET NUMBER:

NOT FOR CONSTRUCTION

CONSULTANT:

PROJECT INFORMATION:


City of Boise Fire Station 4

8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

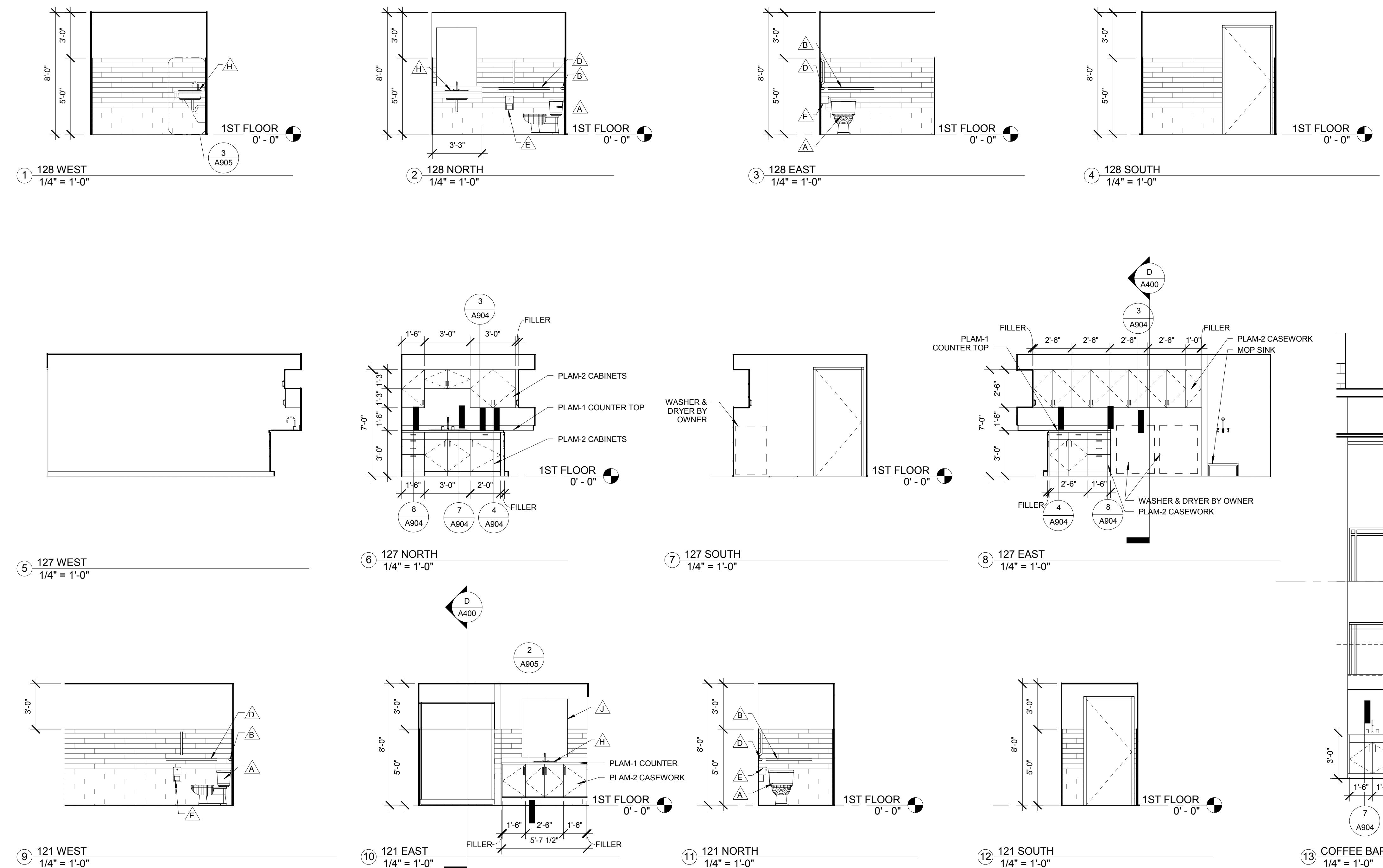
PROJECT PHASE: 75% CD'S

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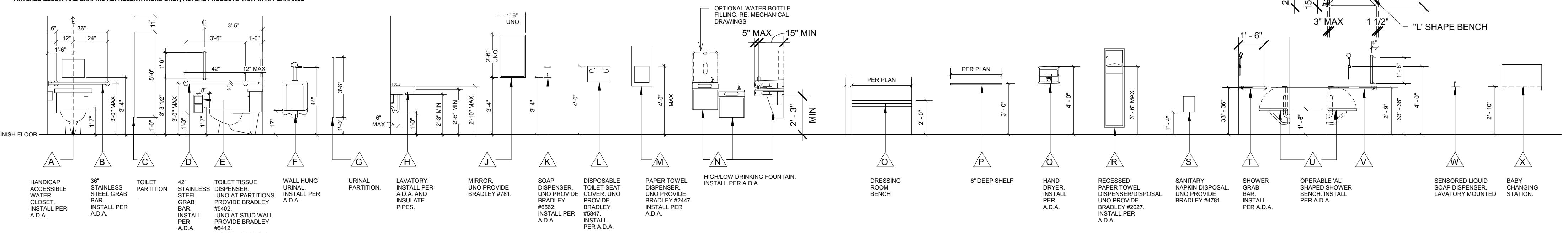
INTERIOR ELEVATIONS AND DETAILS

SHEET NUMBER:

A900

PROVIDE SOLID BLOCKING OR OTHER SUITABLE PACKING AT LOCATIONS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: EDGES WHERE FINISH MATERIALS CHANGE; GRAB BARS, TOILET PARTITIONS, SHELF BRACKETS, HANDRAILS AND ALL MOUNTED EQUIPMENT, INCLUDING PIPES AND OUTLINE OF EQUIPMENT. EXTEND BACKING 6" BEYOND OUTLINE OF EQUIPMENT.

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


PLUMBING FIXTURE MOUNTING HEIGHTS

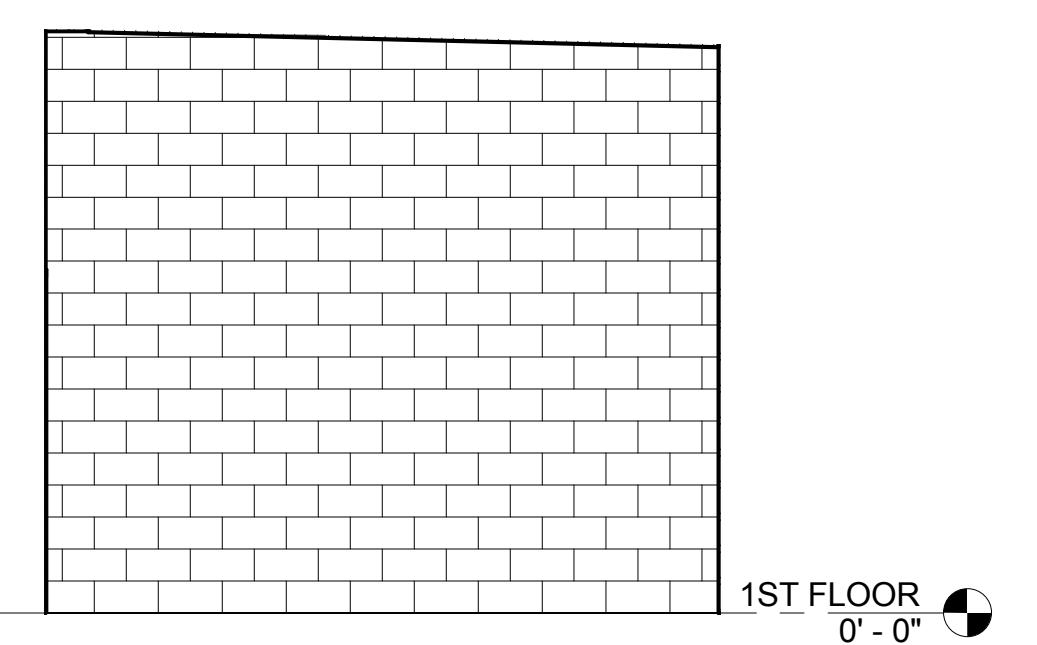
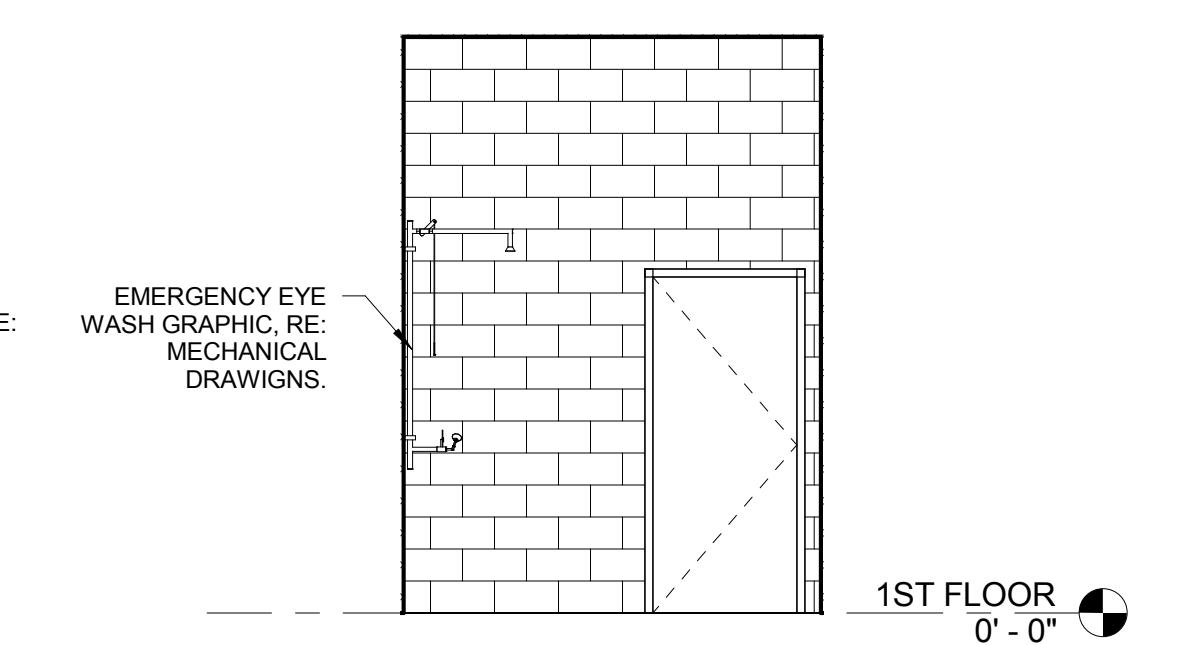
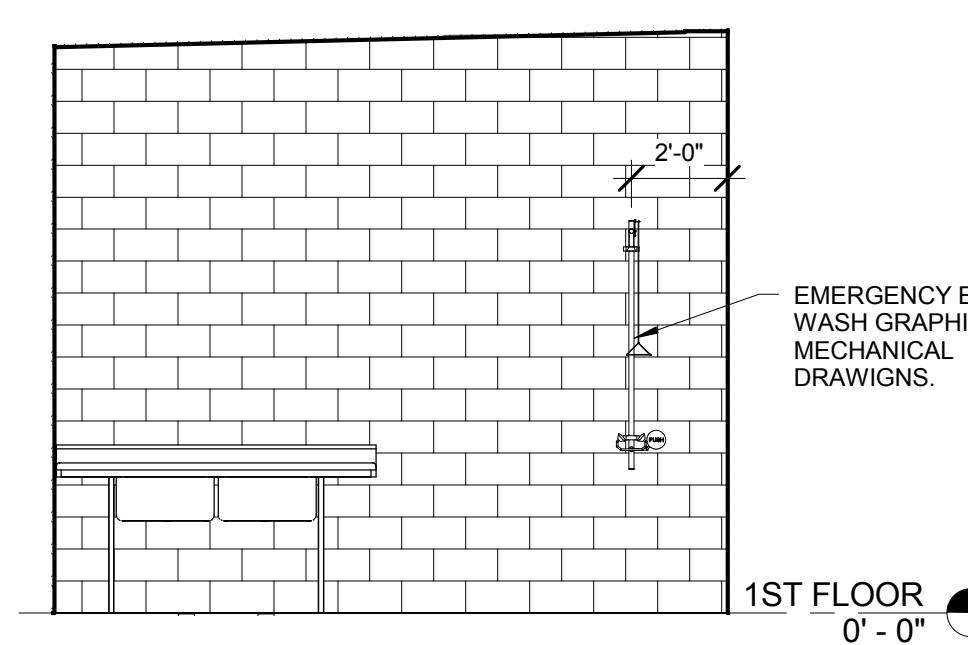
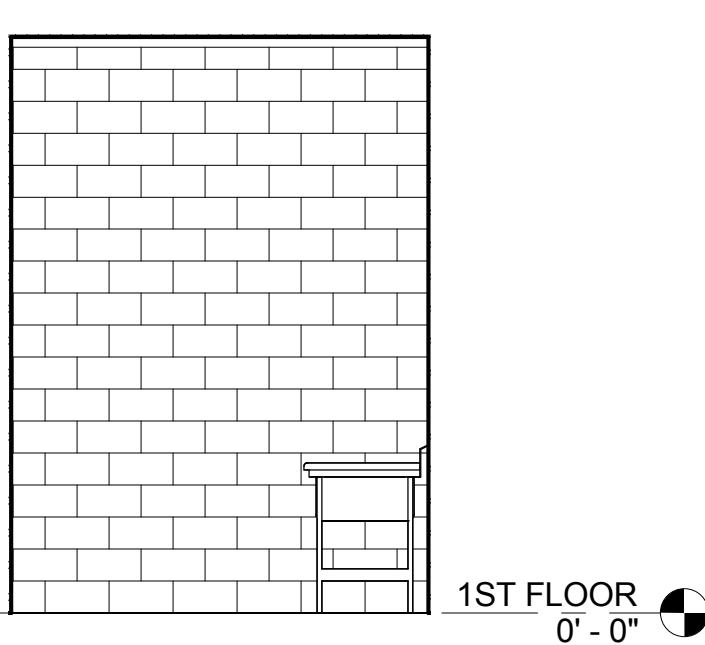
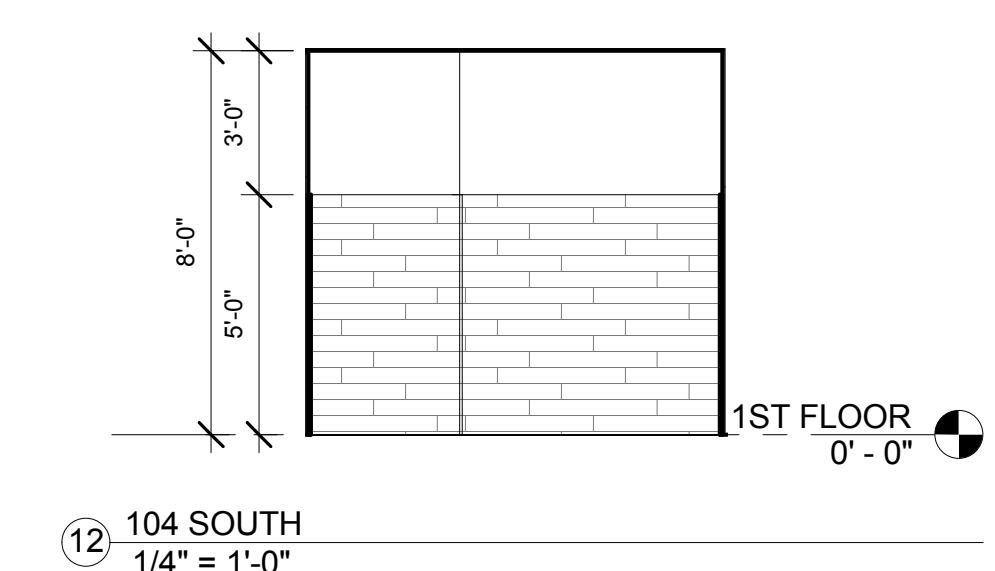
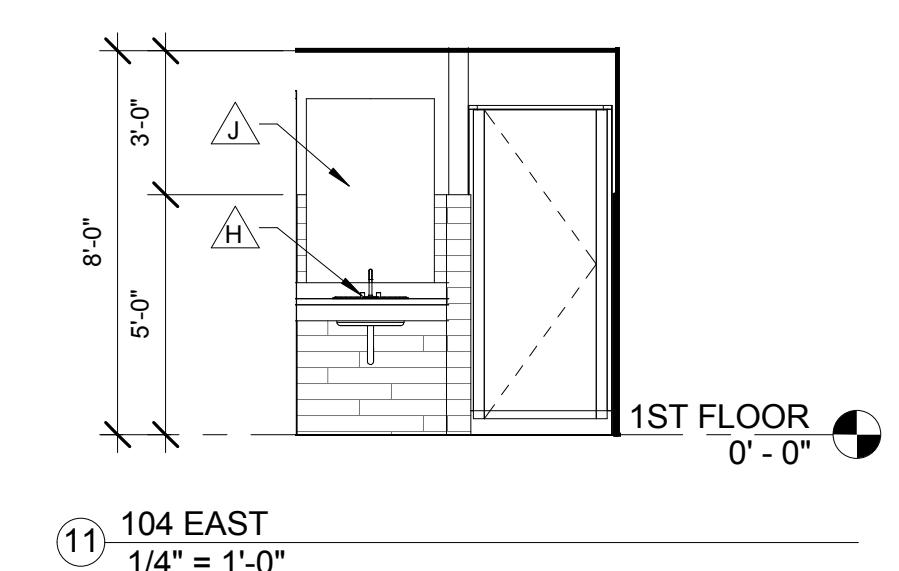
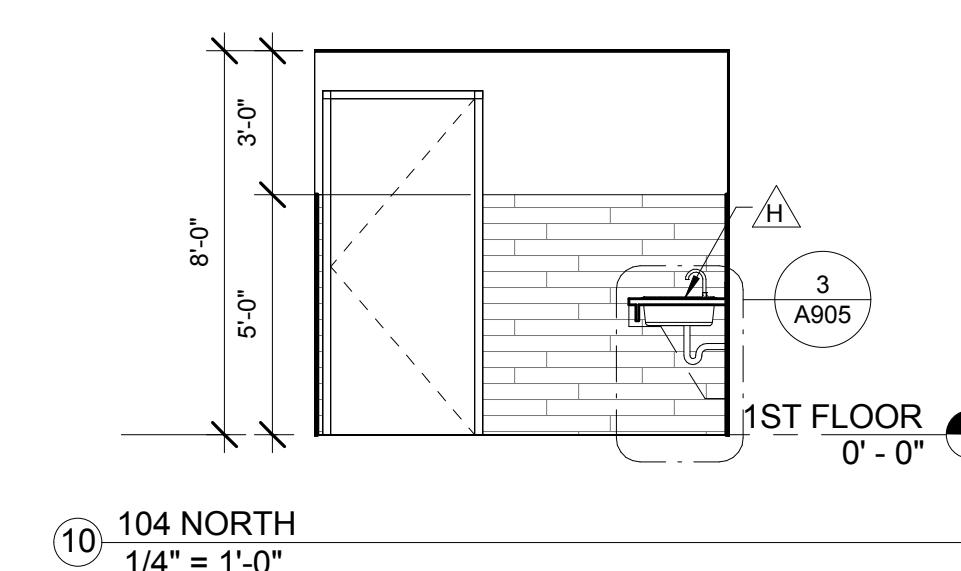
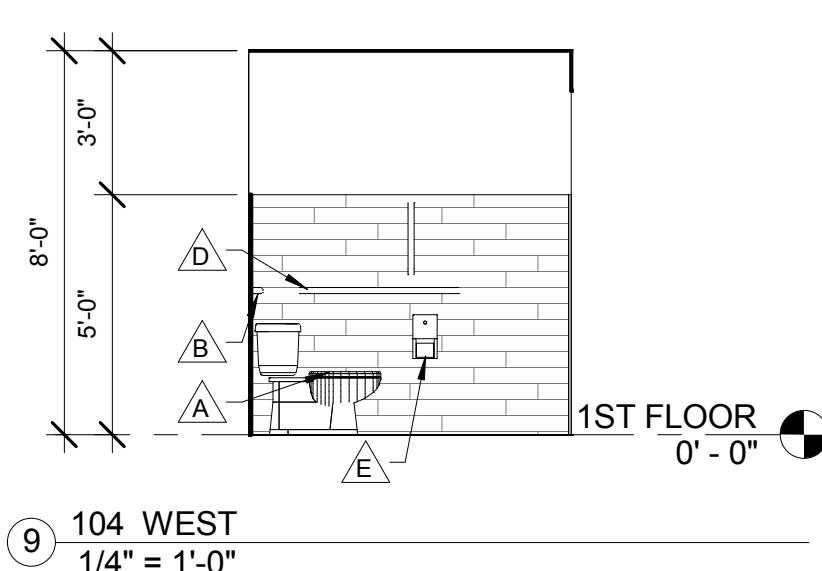
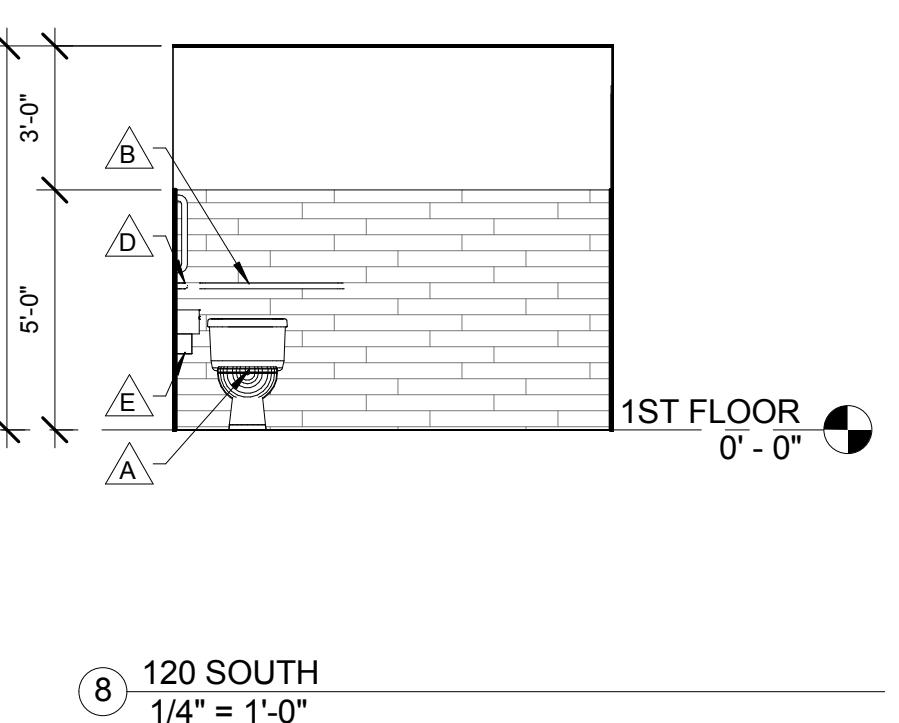
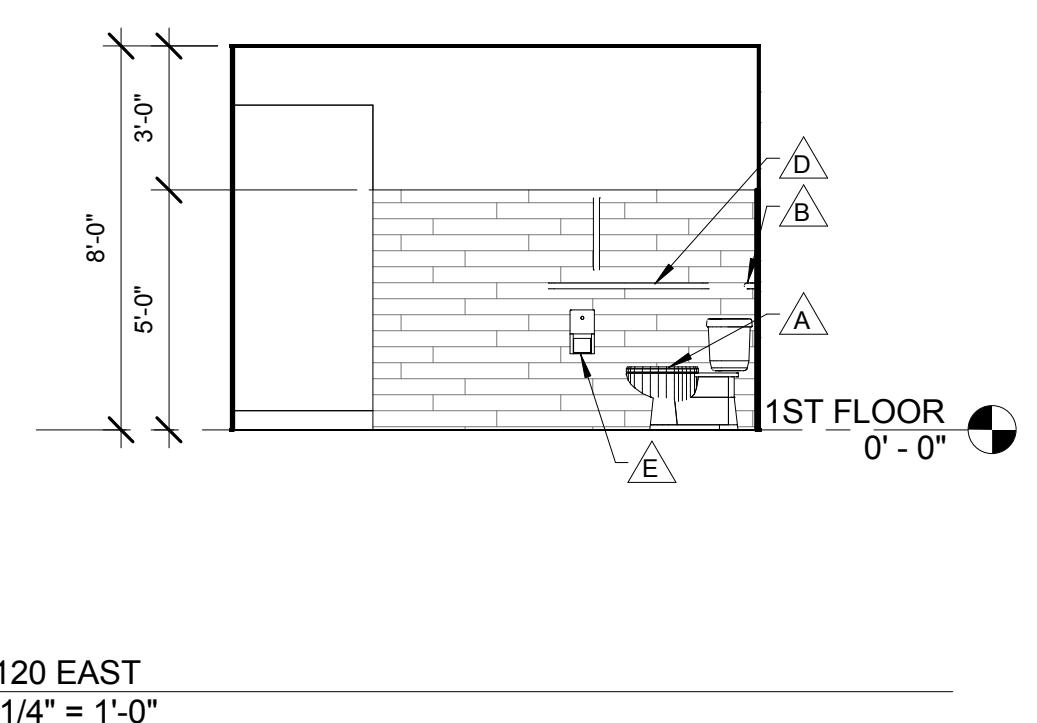
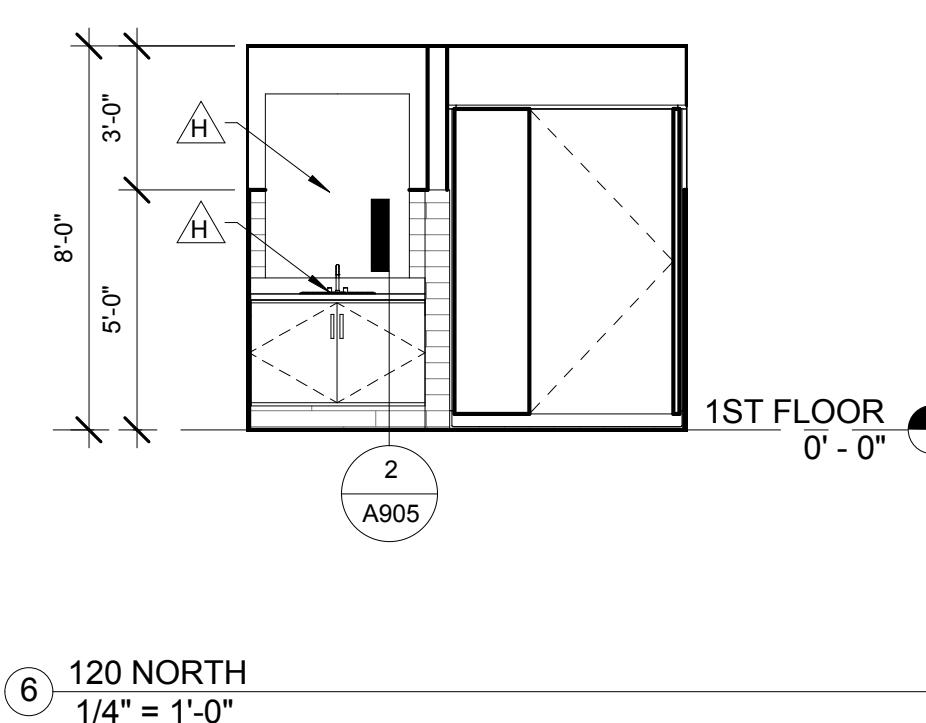
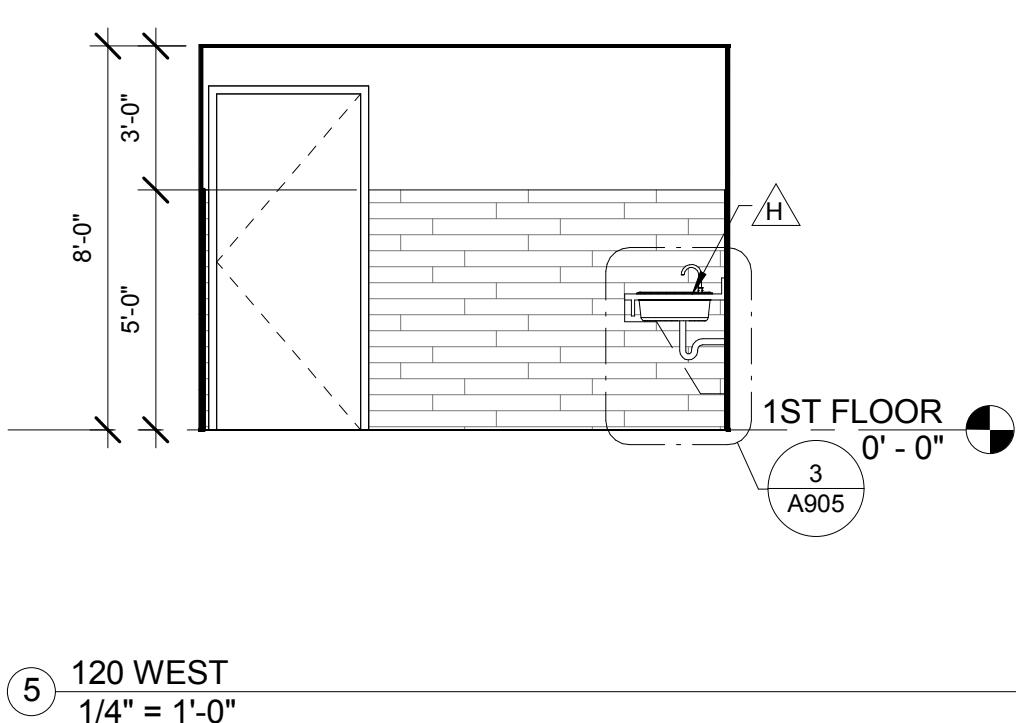
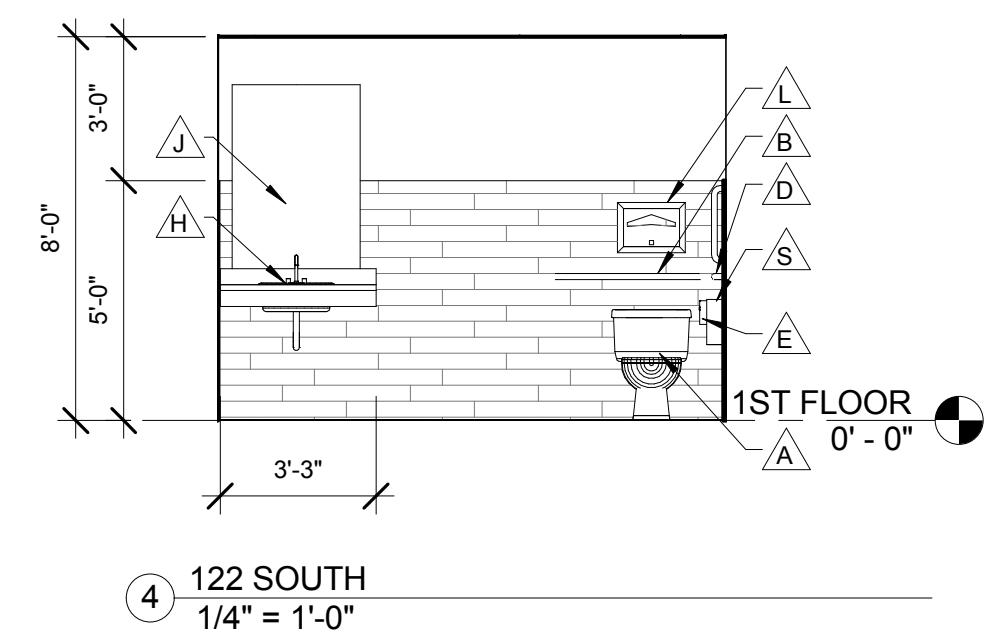
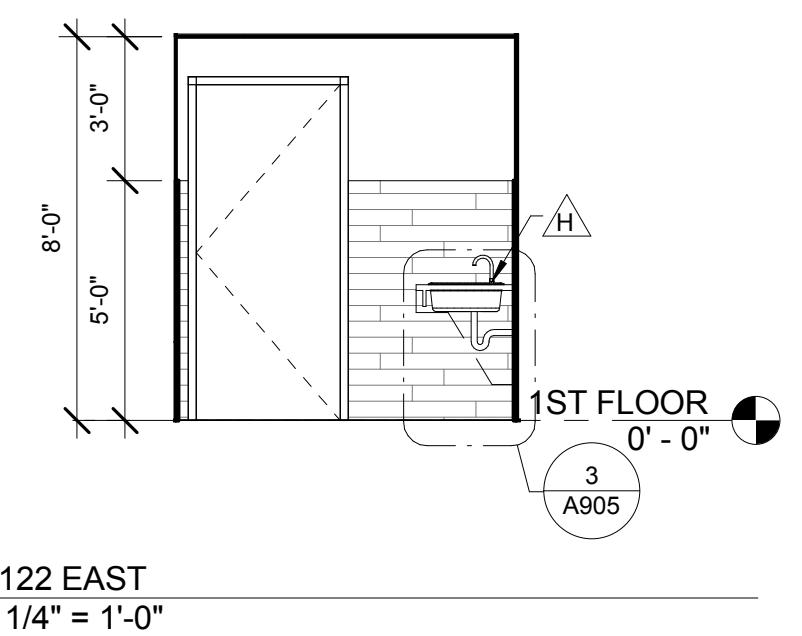
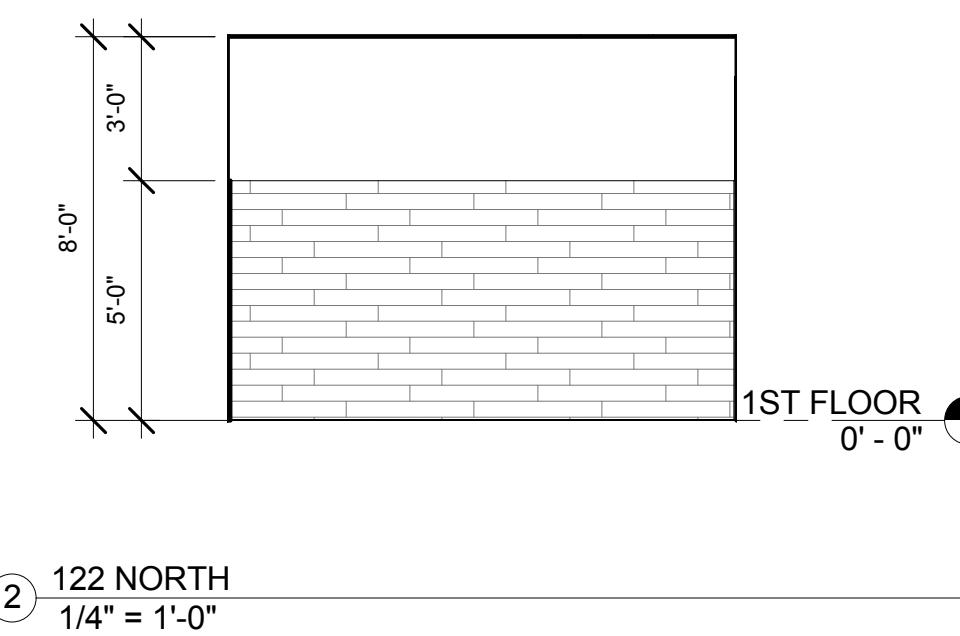
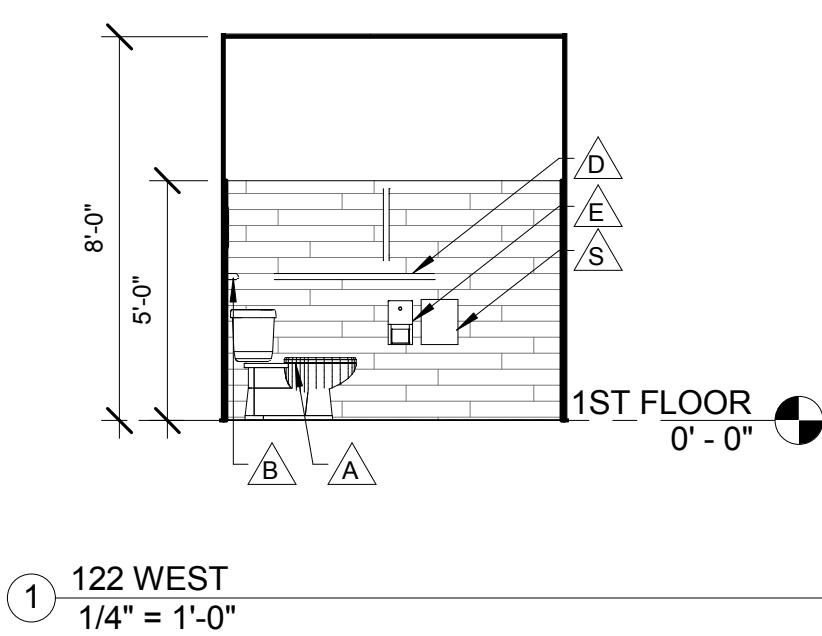
1/4" = 1'-0"



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STAMP:



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CONSULTANT:

City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE	75% CD'S
PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	J. Chatfield, C. Clay, R. Stewart

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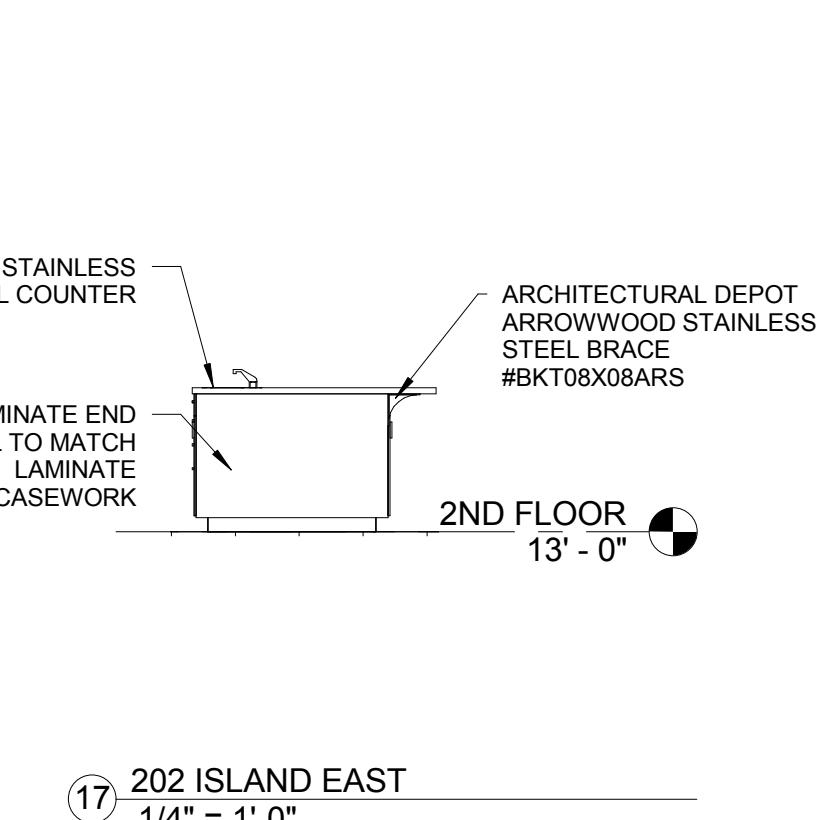
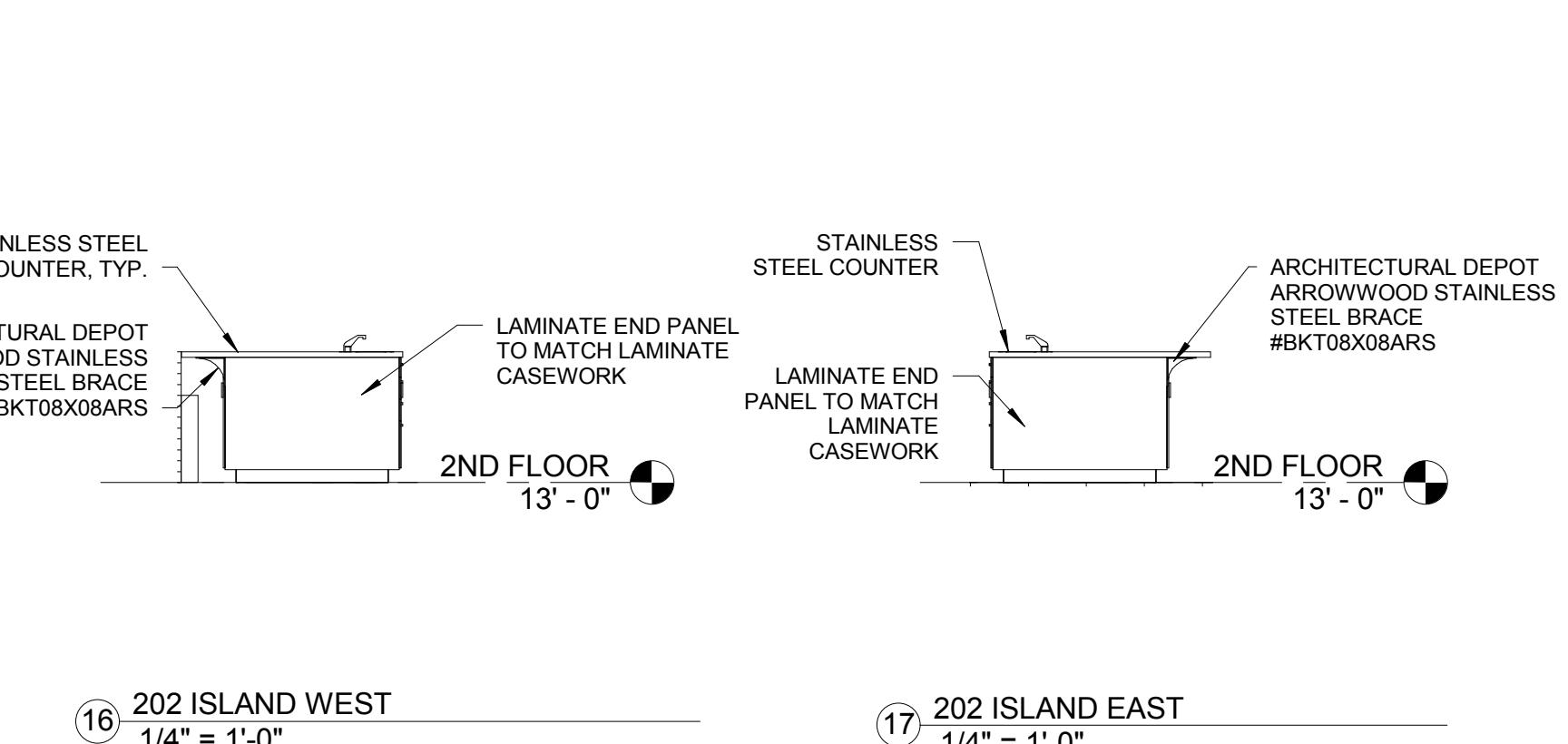
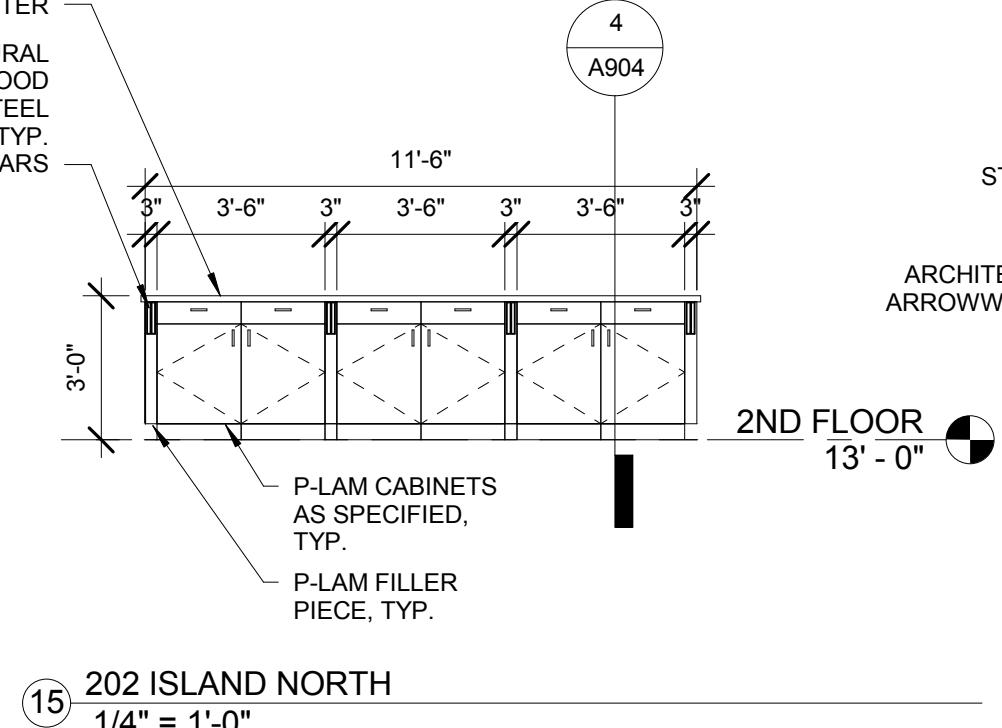
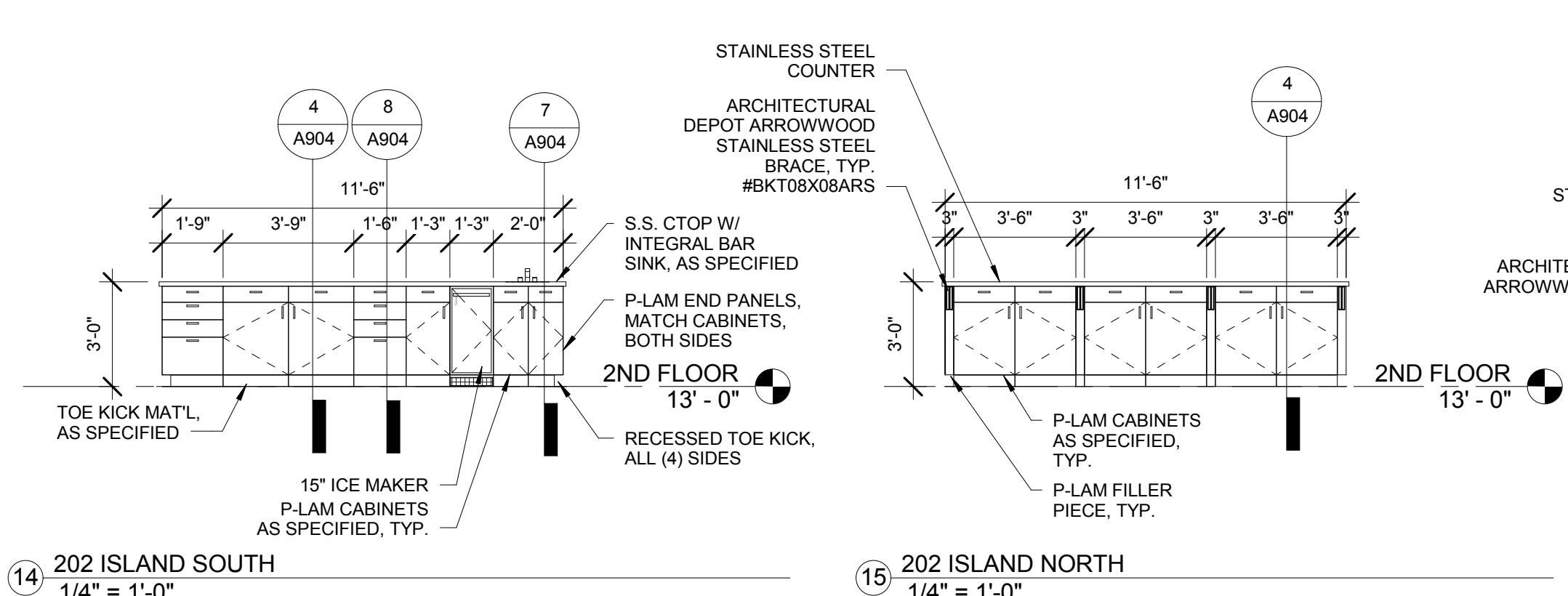
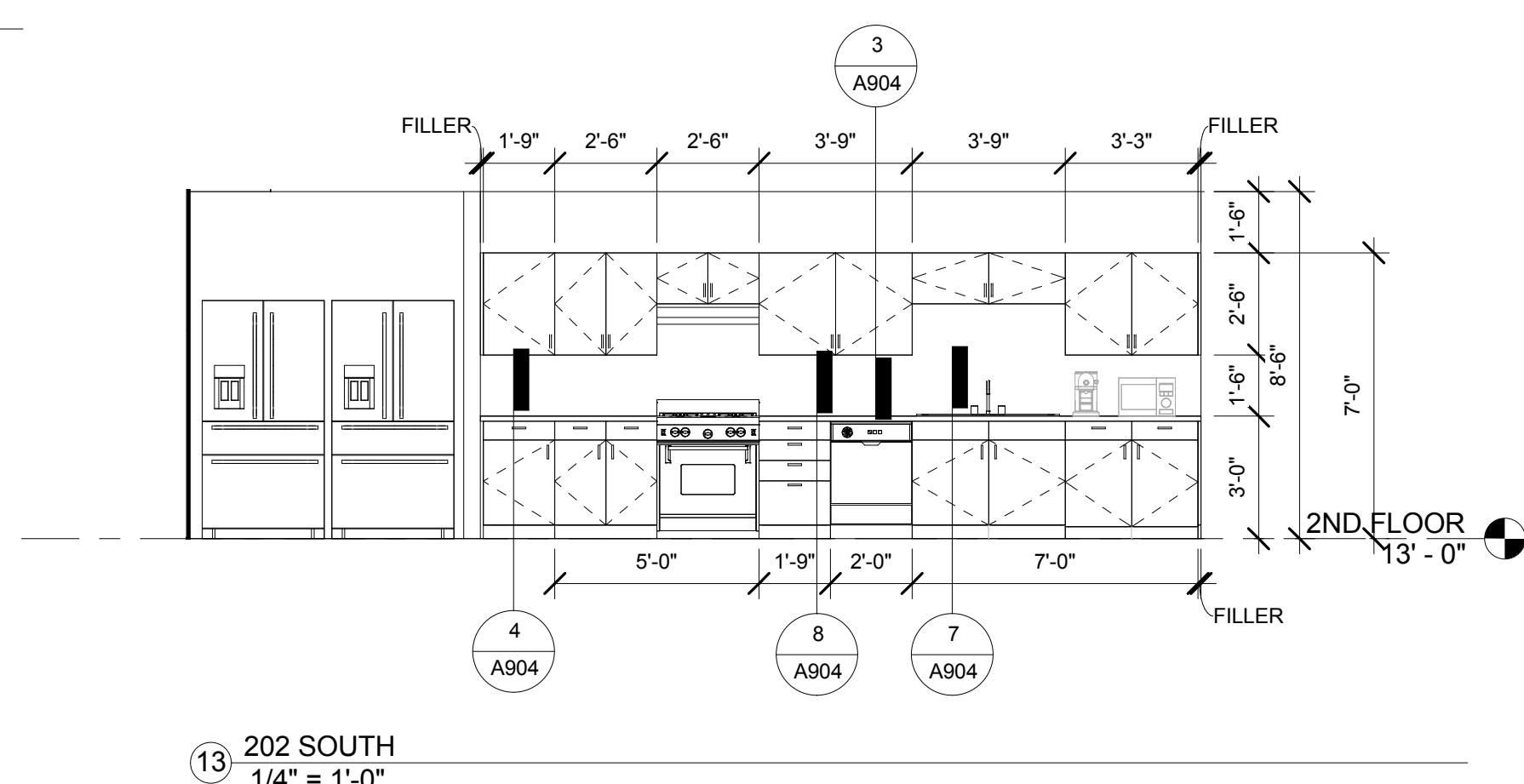
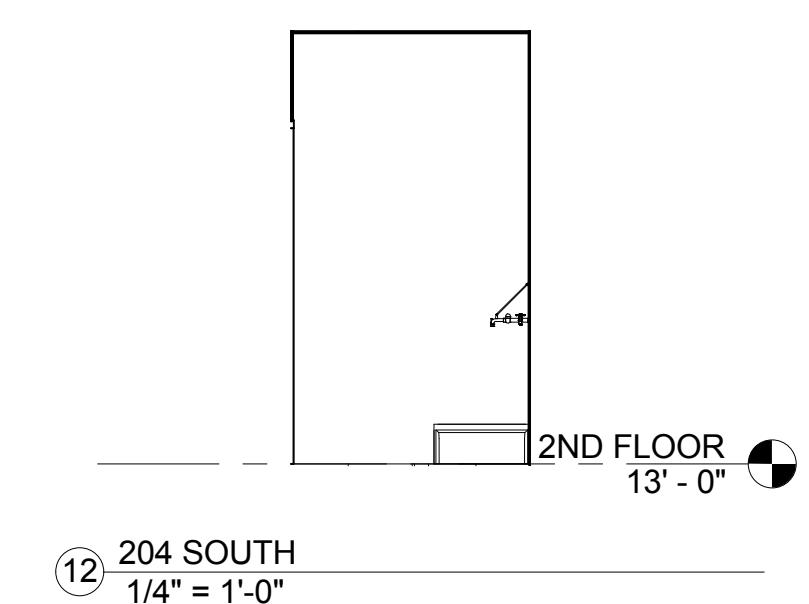
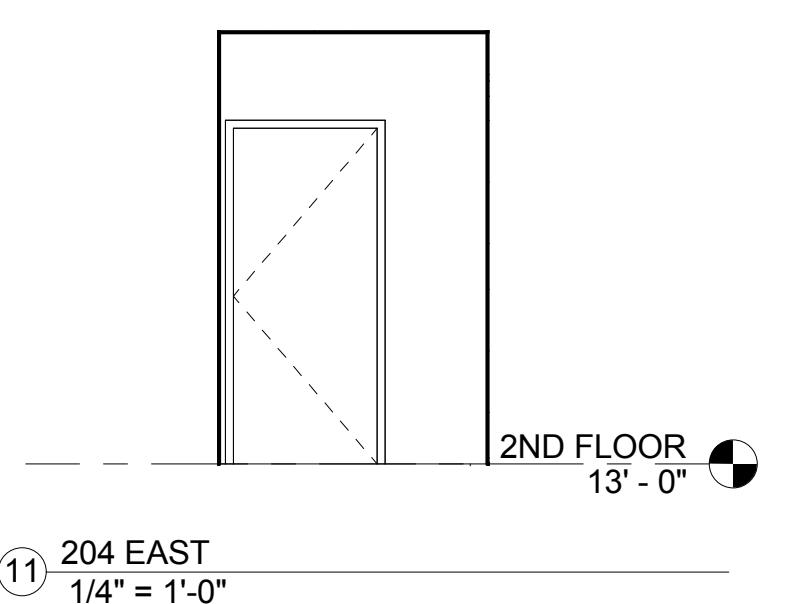
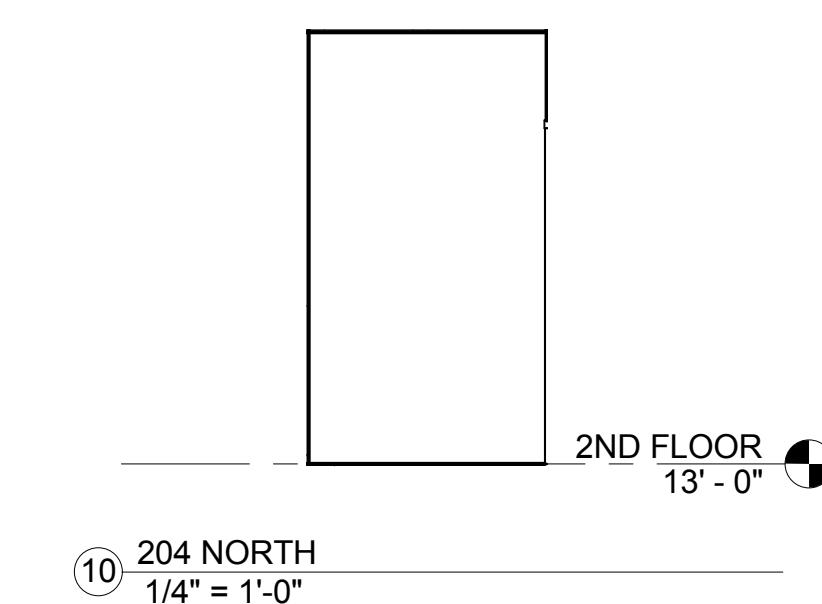
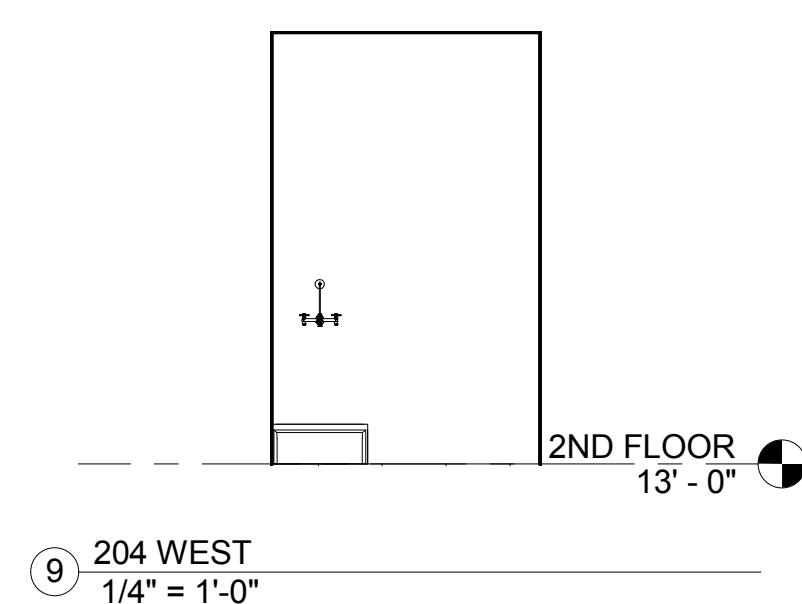
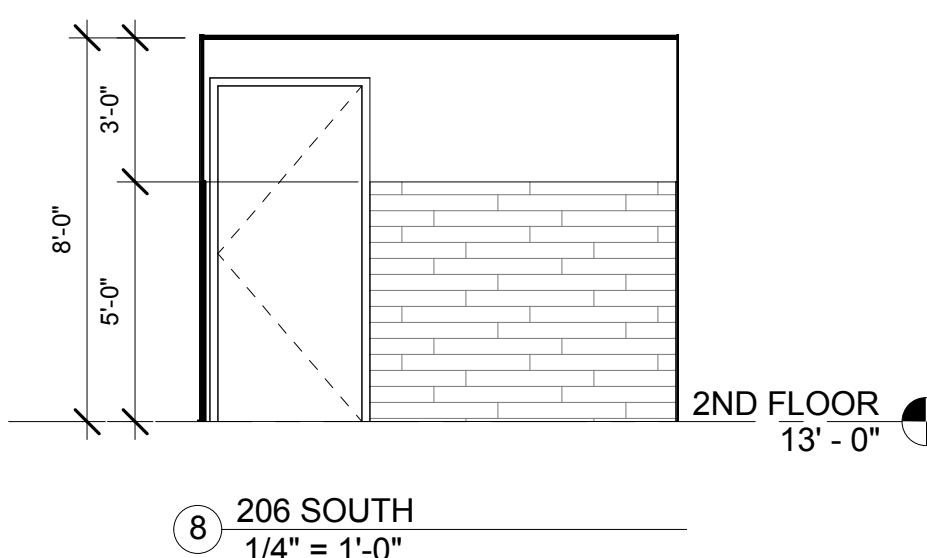
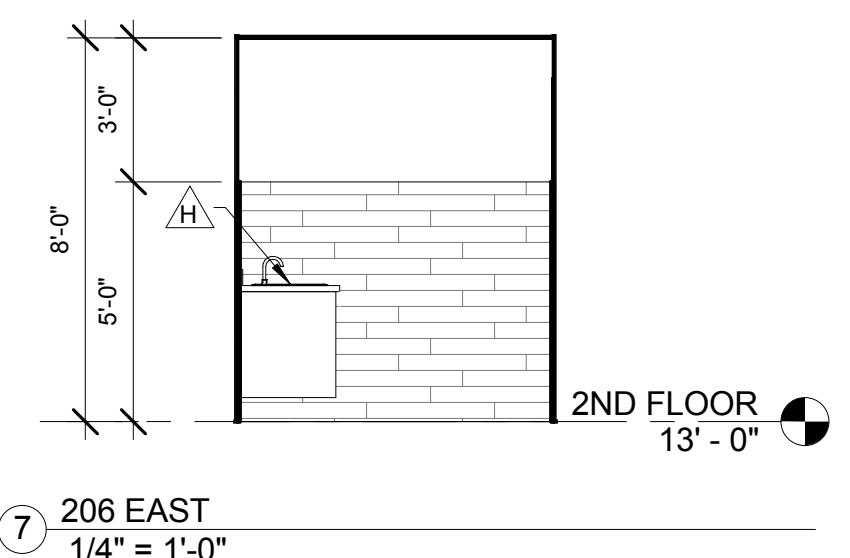
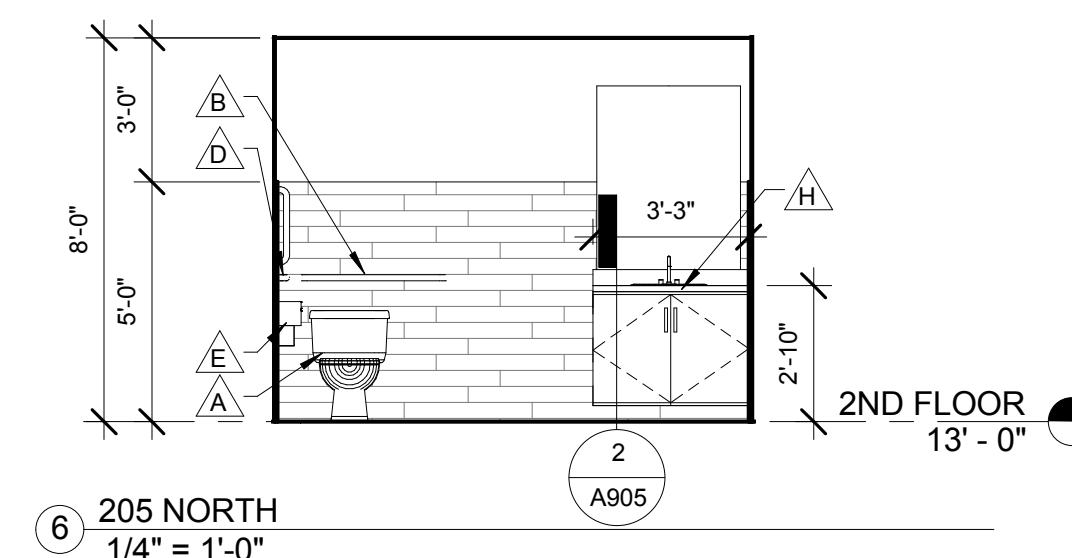
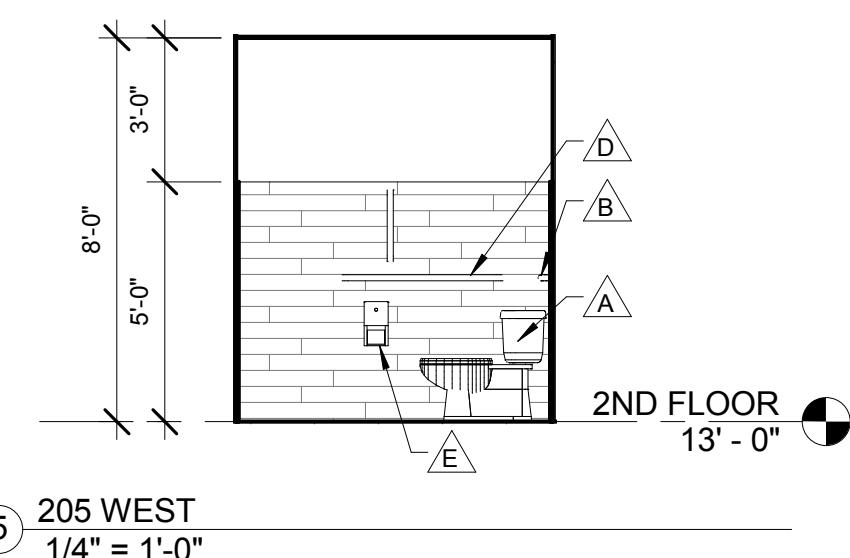
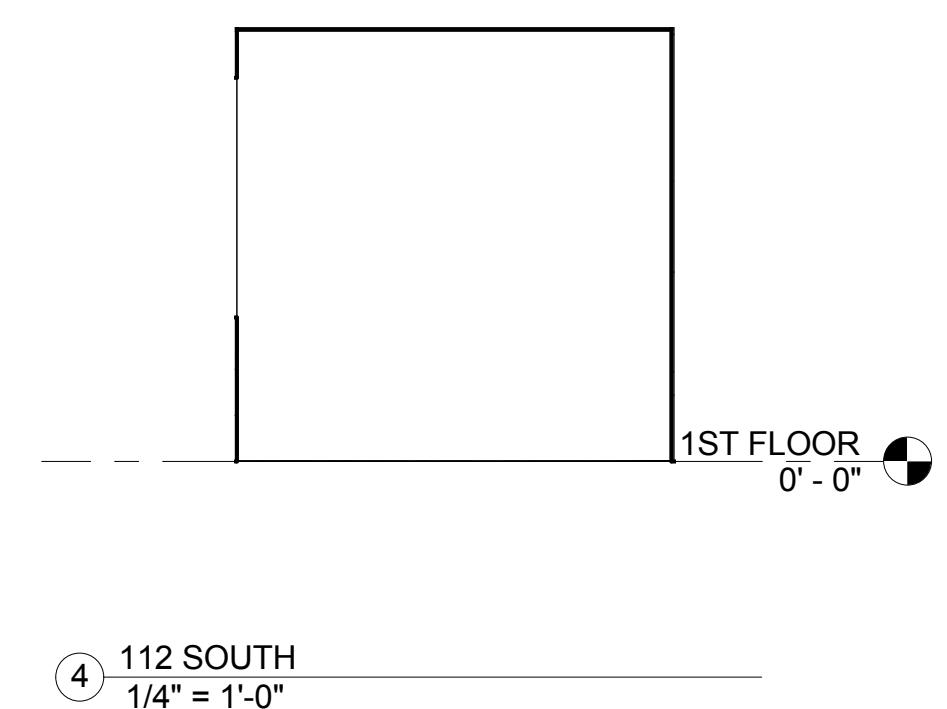
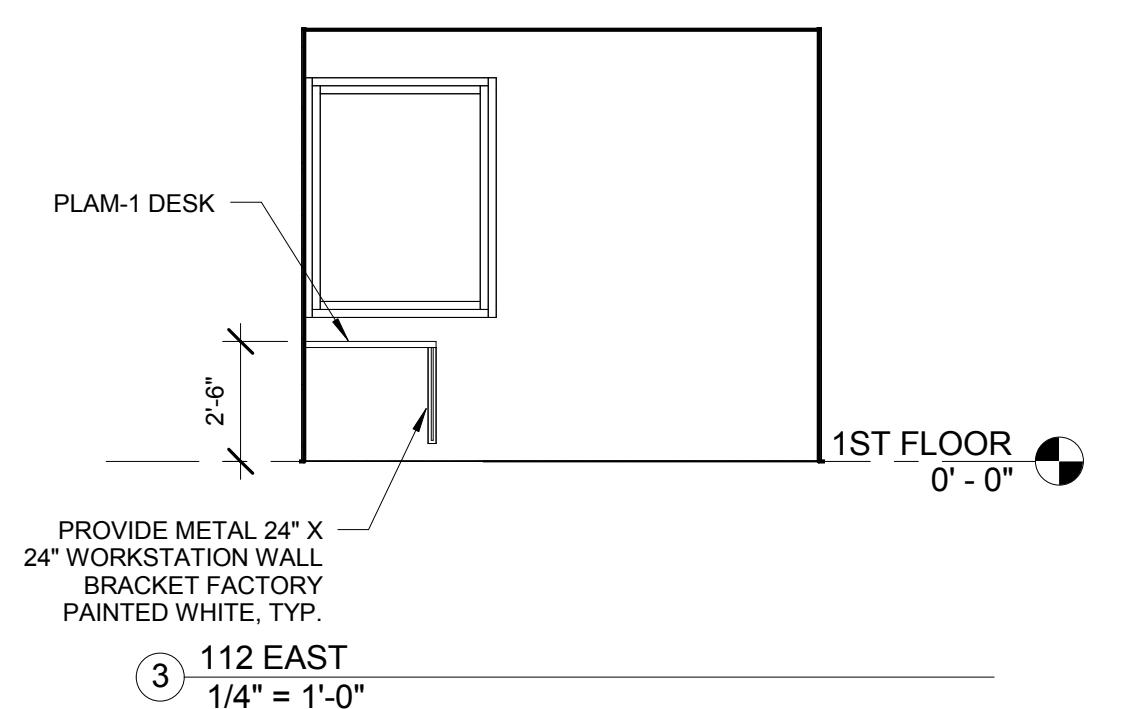
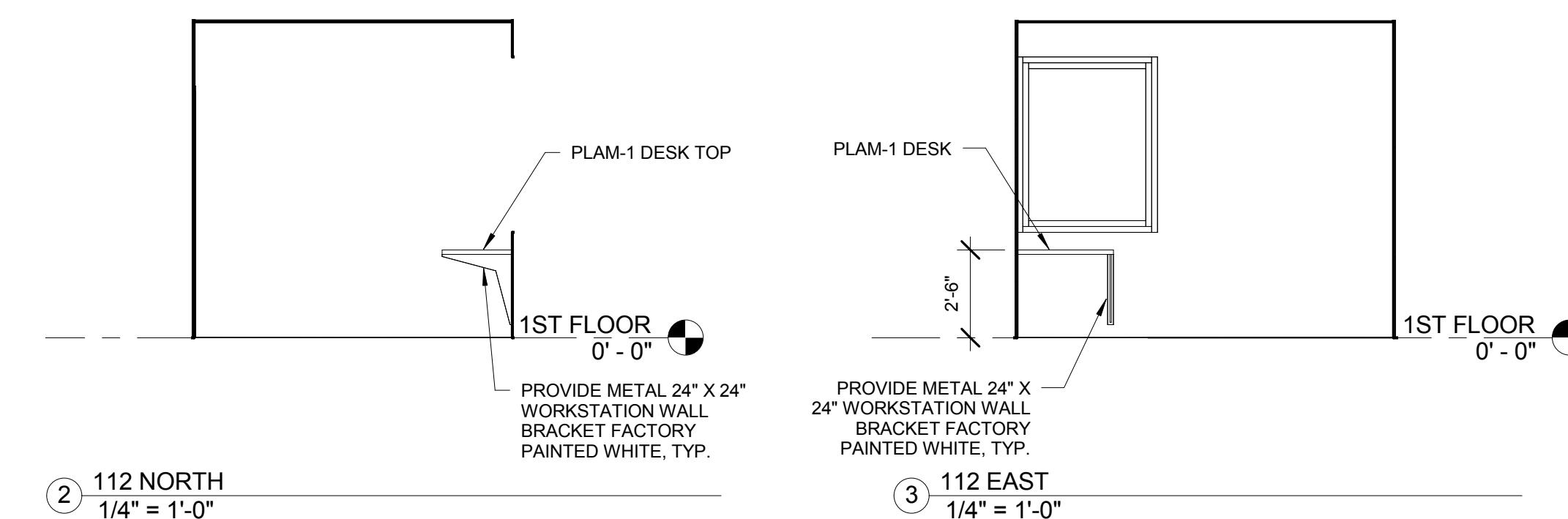
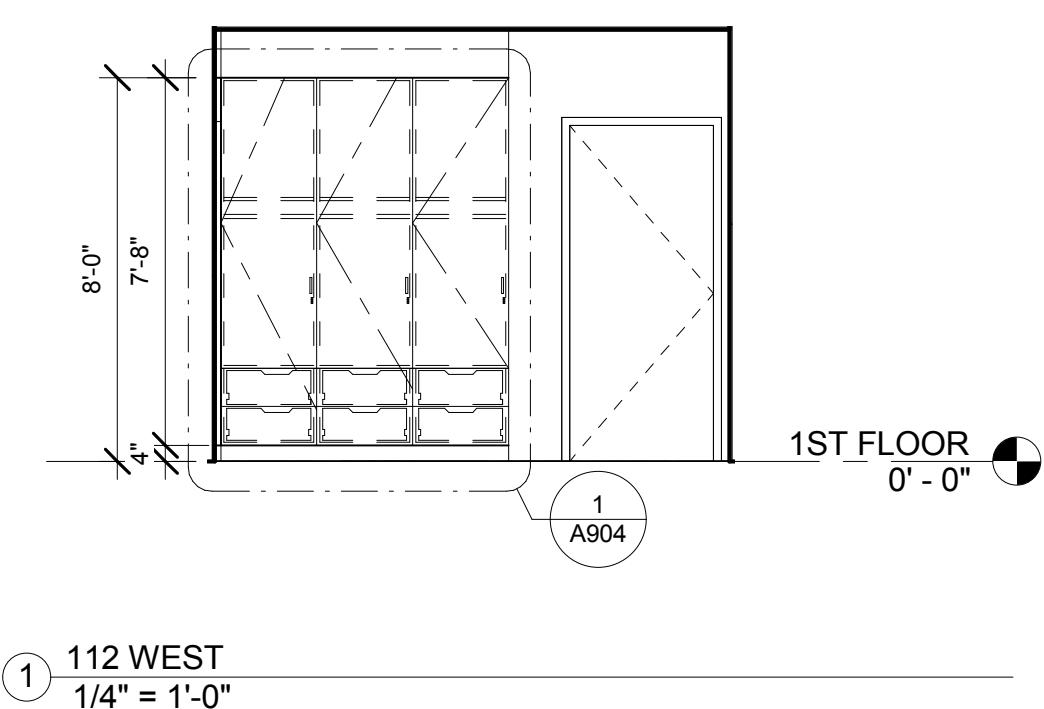
INTERIOR ELEVATIONS AND DETAILS

SHEET NUMBER:

A901

NOT FOR CONSTRUCTION

CONSULTANT:



City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION
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PROJECT PHASE: 75% CD'S

PROJECT PHASE	75% CD'S
PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	J. Chatfield, C. Clay, R. Stewart

SHEET NAME:

INTERIOR ELEVATIONS AND DETAILS

SHEET NUMBER:

A902



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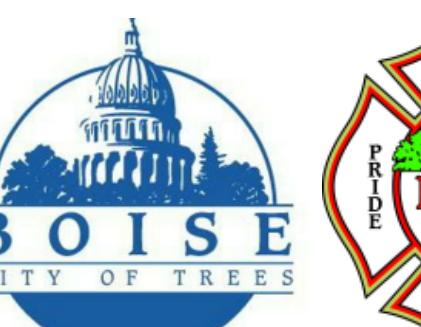
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CONSULTANT:

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SHEET NAME:

INTERIOR
ELEVATIONS AND
DETAILS

SHEET NUMBER:

A903

COLE ARCHITECTS

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

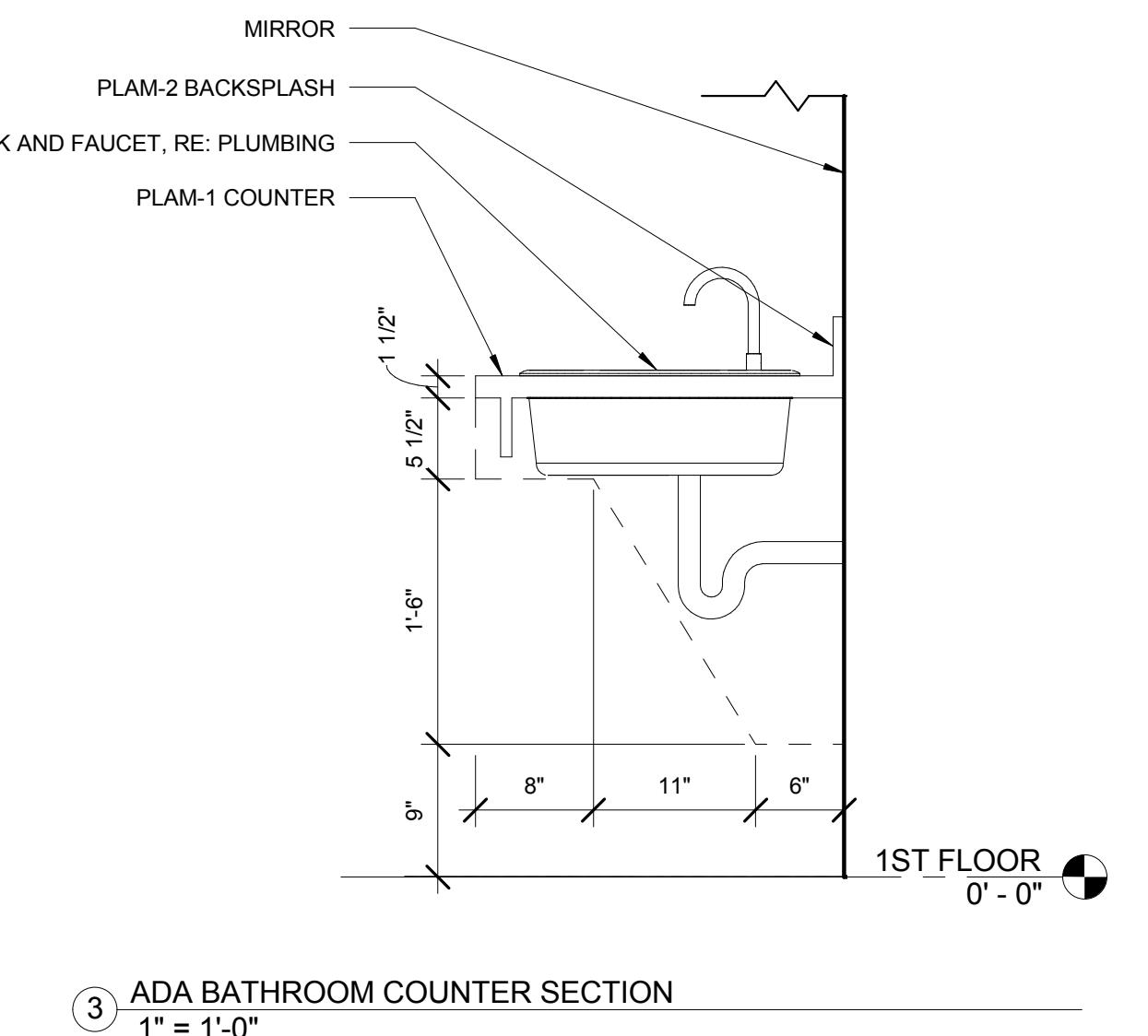
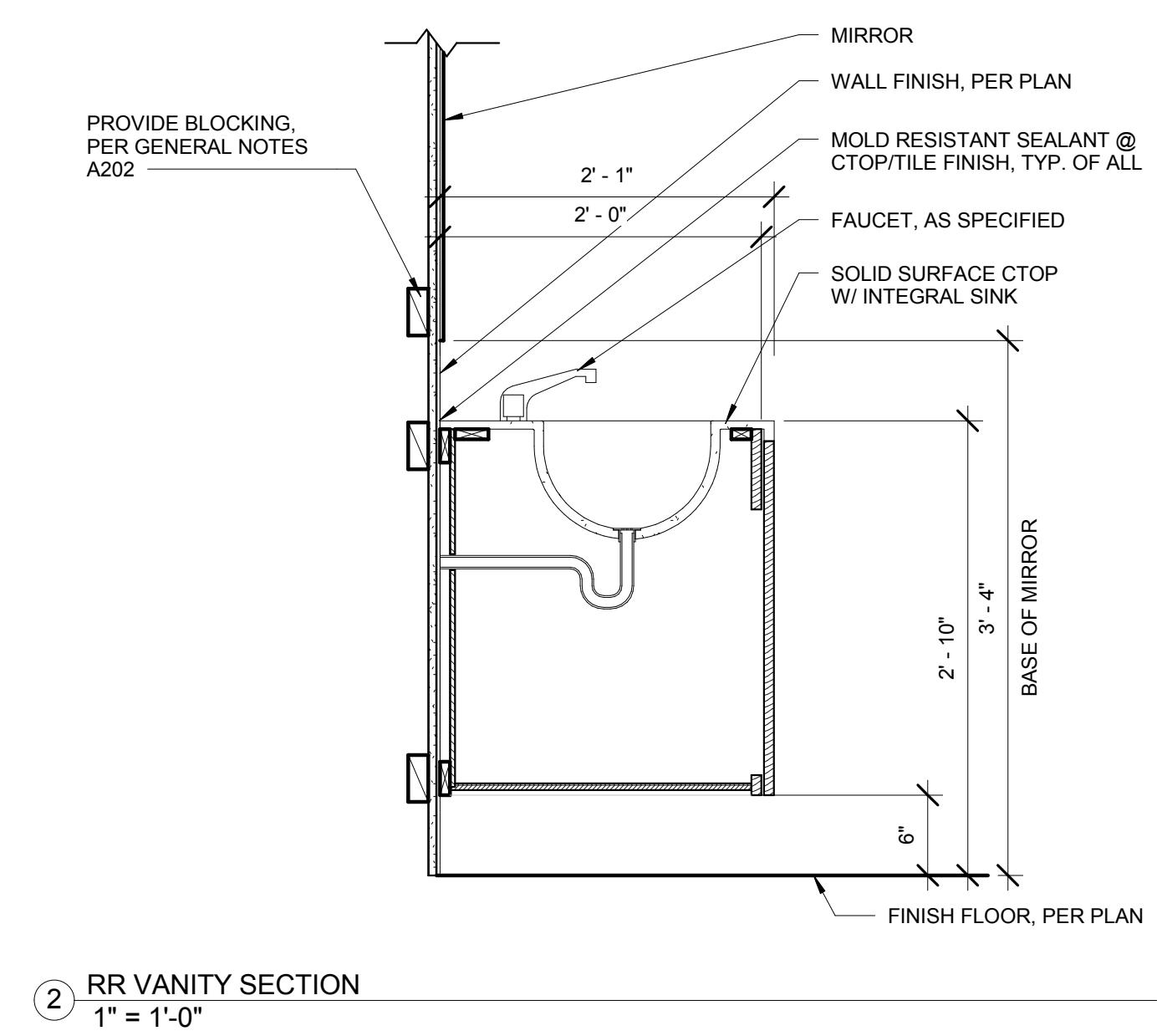
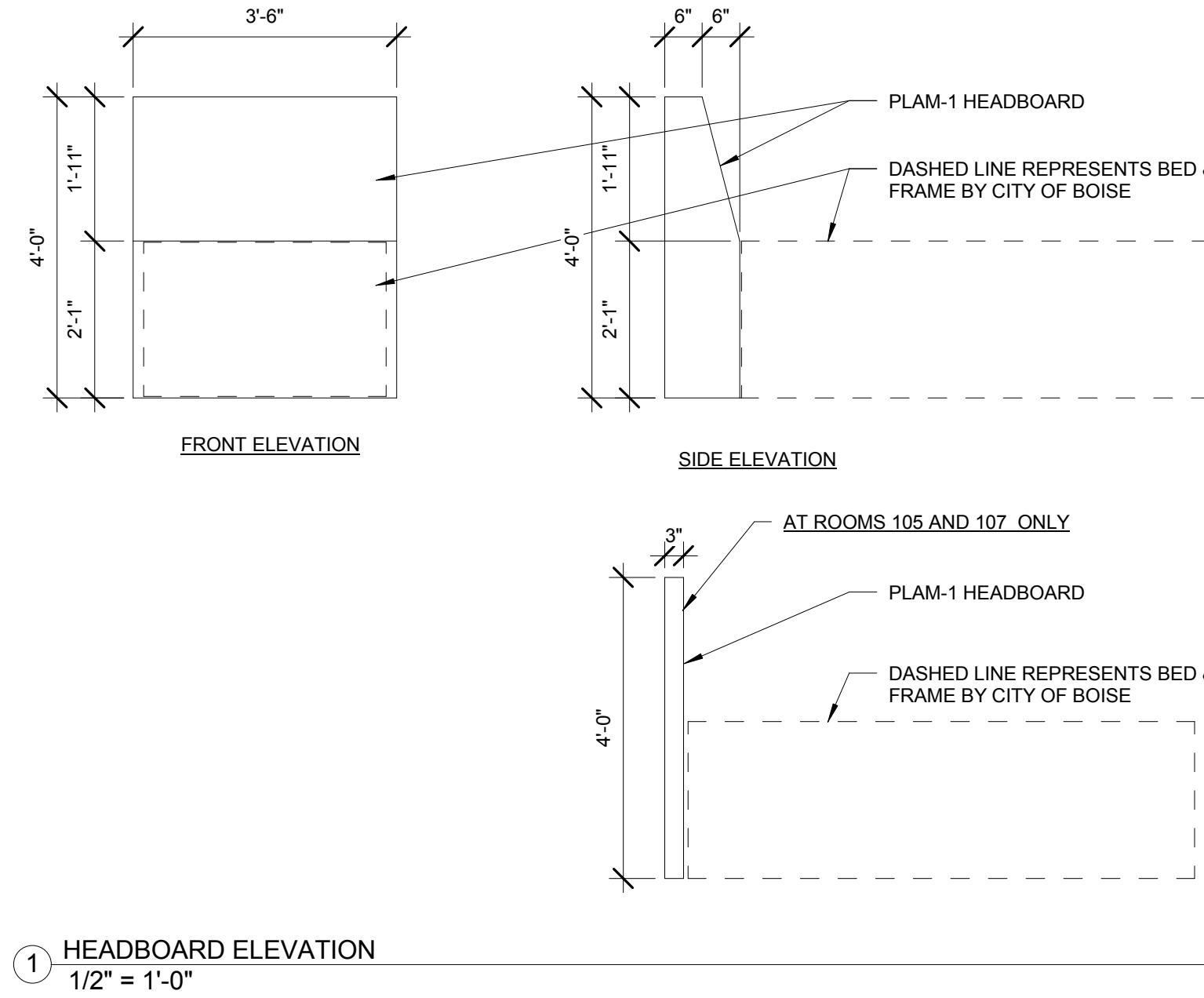
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CONSULTANT:



City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

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DRAWN BY	J. Chatfield, C. Clay, R. Stewart

SHEET NAME:

SHEET NUMBER:	
A905	

02.02.16

A905



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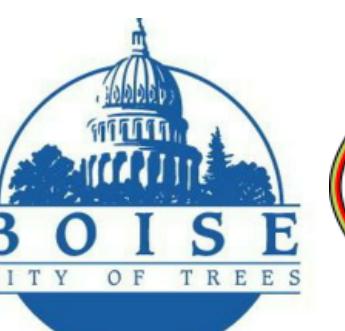
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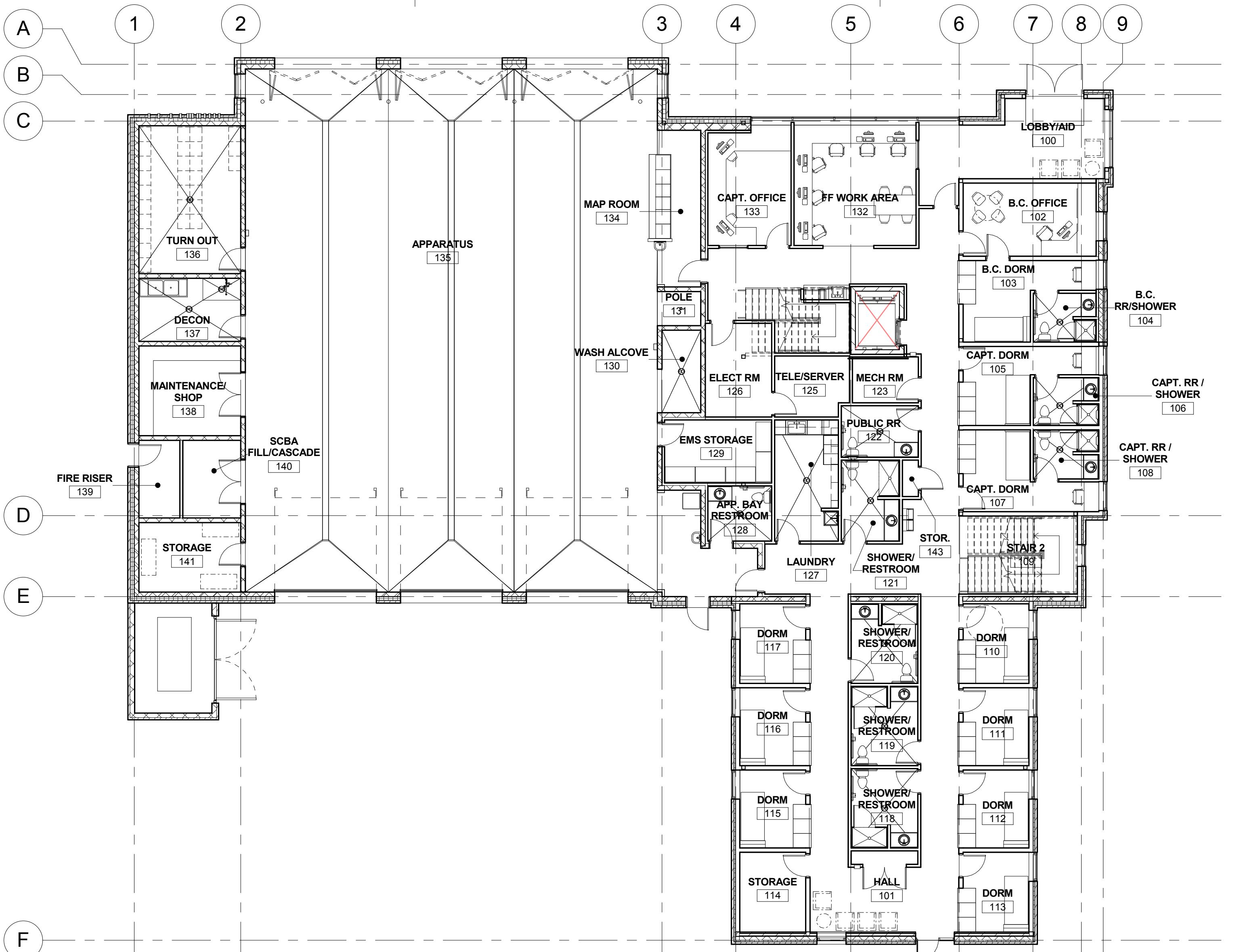
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SHEET NAME:		

1ST FLOOR FINISH PLAN



1ST FLOOR FINISH PLAN

3/32" = 1'-0"

FINISH SPECIFICATIONS:

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 CONSTRUCT CASEWORK PER STANDARDS ESTABLISHED BY THE ARCHITECTURAL WOODWORK STANDARDS MOST CURRENT ADDITION. CONSTRUCT PER CUSTOM FINISH DESIGN STANDARDS.
- D. ALL INTERIOR FINISHES MUST BE INSTALLED BY A CERTIFIED INSTALLER/SUBCONTRACTOR PER MANUFACTURER'S INSTRUCTIONS. USE MANUFACTURER'S APPROVED ADHESIVES AND SEAM SEALERS.
- E. PROVIDE CONTROL JOINTS AT TRANSITION BETWEEN WALL AND GYP BOARD SOFFIT.
- F. PROVIDE STANDARD PAINT COLORS FOR THE FOLLOWING TO MATCH WALL ON WHICH THEY OCCUR: FIRE EXTINGUISHER CABINETS, CABINET UNIT HEATERS, ELECTRICAL PANELS, ACCESS PANELS LOCATED IN GYP BOARD CEILINGS.
- G. PROVIDE A THIN, CLEAR, SILICONE BEAD (1/8") AT PERIMETER OF ALL DOOR FRAMES AND BORROWED 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.
- H. AT GYPSUM BOARD CEILINGS, PROVIDE FACTORY FINISH SEMI-RECESSED SPRINKLER HEAD COVERS TO MATCH COLOR OF ADJACENT CEILING FINISH, AS SCHEDULED.
- I. ALL FLOORING TRANSITIONS OCCUR UNDER THE CENTER OF THE DOOR UNLESS OTHERWISE NOTED.
- J. PROVIDE OWNER'S STOCK IN THE FOLLOWING QUANTITIES:
 *CERAMIC TILE/PORCELAIN TILE: 1 CARTON OF EACH TYPE AND COLOR OF TILE SPECIFIED
 *ACOUSTICAL CEILING TILE: 200 SQUARE FEET OF EACH TYPE OF ACOUSTICAL UNIT SPECIFIED, PLUS 40 LINEAL FEET OF EXPOSED SUSPENSION SYSTEM COMPONENTS.
 *RESILIENT & SHEET VINYL FLOORING: 200 SQUARE FEET OF EACH TYPE AND COLOR
 *CARPET: 100 FEET VINYL, 40 LINEAL FEET OF EACH TYPE AND COLOR OF RESILIENT BASE
 *PAINT: 1 GALLON OF EACH COLOR.
 *WALLCOVERING: 25 LINEAL FEET OF EACH COLOR AND PATTERN OF WALLCOVERING SPECIFIED
- K. PROVIDE SHOWER CURTAIN AT ADA SHOWERS. SHOWER DOORS AT ALL OTHER SHOWERS.
- L. WINDOW SILLS TO RECEIVE SOLID SURFACING WHITE LAMINATE UNLESS OTHERWISE NOTED.

KEY NOTES:

1. XXX

NO.	NAME	FLOOR		WALLS				CEILING				NOTES
		FINISH	BASE	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	
100	LOBBY/AID	CONC-2	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD / ACT-1	PT-1	
101	HALL	CONC-2	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	ACT-1	-	
102	B.C. OFFICE	WTWTWT	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	ACT-1	-	
103	B.C. DORM	CONC-2	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	ACT-1	-	
104	B.C. RR/SHOWER	CONC-2	WB-2	T-1/GYP BD	PT-2	T-1/GYP BD	PT-2	T-1/GYP BD	PT-2	GYP BD	PT-1	1,2
105	CAPT. DORM	CONC-2	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	ACT-1	-	
106	CAPT. RR / SHOWER	CONC-2	WB-2	T-1/GYP BD	PT-2	T-1/GYP BD	PT-2	T-1/GYP BD	PT-2	GYP BD	PT-1	1,2
107	CAPT. DORM	CONC-2	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	ACT-1	-	
108	CAPT. RR / SHOWER	CONC-2	WB-2	T-1/GYP BD	PT-2	T-1/GYP BD	PT-2	T-1/GYP BD	PT-2	GYP BD	PT-1	1,2
109	STAIR 2	CONC-2	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD / ACT-1	PT-1	
110	DORM	CONC-2	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	ACT-1	-	
111	DORM	CONC-2	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	ACT-1	-	
112	DORM	CONC-2	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	ACT-1	-	
113	DORM	CONC-2	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	ACT-1	-	
114	STORAGE	CONC-2	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	ACT-1	-	
115	DORM	CONC-2	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	ACT-1	-	
116	DORM	CONC-2	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	ACT-1	-	
117	DORM	CONC-2	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	ACT-1	-	
118	SHOWER/ RESTROOM	CONC-2	WB-2	T-1/GYP BD	PT-2	T-1/GYP BD	PT-2	T-1/GYP BD	PT-2	GYP BD	PT-1	1,2
119	SHOWER/ RESTROOM	CONC-2	WB-2	T-1/GYP BD	PT-2	T-1/GYP BD	PT-2	T-1/GYP BD	PT-2	GYP BD	PT-1	1,2
120	SHOWER/ RESTROOM	CONC-2	WB-2	T-1/GYP BD	PT-2	T-1/GYP BD	PT-2	T-1/GYP BD	PT-2	GYP BD	PT-1	1,2
121	SHOWER/ RESTROOM	CONC-2	WB-2	T-1/GYP BD	PT-2	T-1/GYP BD	PT-2	T-1/GYP BD	PT-2	GYP BD	PT-1	1,2
122	PUBLIC RR	CONC-2	WB-2	T-1/GYP BD	PT-2	T-1/GYP BD	PT-2	T-1/GYP BD	PT-2	GYP BD	PT-1	1,2
123	MECH RM	CONC-1	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	-	-	
124	COFFEE	CONC-2	WB-1	-	-	GYP BD	PT-1	GYP BD	PT-1	ACT-1	-	3
125	TELE/SERVER	CONC-1	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	-	-	
126	ELECT RM	CONC-1	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	-	-	
127	LAUNDRY	CONC-2	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	-	-	
128	APP. BAY RESTROOM	CONC-1	-	T-1/GYP BD	PT-2	T-1/GYP BD	PT-2	T-1/GYP BD	PT-2	ACT-1	-	1,2,4
129	EMS STORAGE	CONC-1	WB-1	GYP BD	PT-2	GYP BD	PT-2	GYP BD	PT-2	-	-	
130	WASH ALCOVE	CONC-1	-	CMU	PT-2	CMU	PT-2	CMU	PT-2	GYP BD	PT-1	4,5
131	POLE	CONC-1	-	CMU	PT-2	CMU	PT-2	CMU	PT-2	-	-	4
132	FF WORK AREA	CONC-2	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	ACT-1	-	
133	CAPT. OFFICE	CONC-1	-	GYP BD	PT-2	CMU	PT-2	CMU	PT-2	-	-	
134	MAP ROOM	CONC-1	-	GYP BD	PT-2	CMU	PT-2	CMU	PT-2	-	-	
135	APPARATUS	CONC-1	-	CMU	PT-2	CMU	PT-2	CMU	PT-2	-	-	
136	TURN OUT	CONC-1	-	CMU	PT-2	CMU	PT-2	CMU	PT-2	-	-	
137	DECON	CONC-1	-	GYP BD	PT-2	CMU	PT-2	GYP BD	PT-2	CMU	PT-2	4,5,6
138	MAINTENANCE/ SHOP	CONC-1	-	GYP BD	PT-2	CMU	PT-2	GYP BD	PT-2	CMU	PT-2	4
139	FIRE RISER	CONC-1	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	CMU	PT-1	-
140	SCBA FILL/CASCADE	CONC-1	-	GYP BD	PT-2	CMU	PT-2	GYP BD	PT-2	-	-	
141	STORAGE	CONC-2	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	4
142	STORAGE	CONC-2	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	4
143	STOR.	CONC-1	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	-

FINISH SCHEDULE NOTES

- WALL TILE TO 5'-0" ABOVE FF
- BATHROOM BACKSPASH
- KITCHEN BACKSPASH
- CAULKED CMU BASE AT EPOXY PAINT ONLY
- METAL GRATING
- PROVIDE FRP TO 8'-0" BEHIND SINK BACKSPASH AND SHOWER

ID100

02.02.16

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STAMP:

NOT FOR CONSTRUCTION

CONSULTANT:

PROJECT INFORMATION:

City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE	75% CD'S
PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	J. Chatfield, C. Clay, R. Stewart

SHEET NAME:

2ND FLOOR FINISH PLAN

SHEET NUMBER:

ID101

2ND FLOOR FINISH PLAN

3/32" = 1'-0"

NORTH



ROOM FINISH SCHEDULE 2ND FLOOR

NO.	NAME	FLOOR		WALLS				CEILING			NOTES	
		FINISH	BASE	NORTH MATERIAL	NORTH FINISH	EAST MATERIAL	EAST FINISH	SOUTH MATERIAL	SOUTH FINISH	WEST MATERIAL	WEST FINISH	
200	STAIR 1	-	WB-1	GYP BD	PT-1	CMU	PT-1	-	-	GYP BD / ACT-1	PT-1	
201	HALL	CONC-2	WB-1	GYP BD	PT-1	GYP BD	PT-1	-	-	GYP BD	PT-1	
202	KITCHEN/DINING	CONC-2	WB-1	CMU	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD / ACT-1	PT-1	3
203	POLE	CONC-2	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	CMU	PT-1	
204	JANITOR	CONC-2	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	
205	RESTROOM	CONC-2	WB-2	T-1 / GYP BD	PT-2	T-1 / GYP BD	PT-2	T-1 / GYP BD	PT-2	GYP BD	PT-1	2
206	STORAGE	CONC-2	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	-	-	
207	TRAINING CLASSROOM	CONC-2	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD / ACT-1	PT-1	
208	FITNESS	RAF	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD / ACT-1	PT-1	
209	DAYROOM	CONC-2	WB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD / ACT-1	PT-1	
210	PATIO											

FINISH SCHEDULE NOTES

- WALL TILE TO 5'-0" ABOVE FF
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- KITCHEN BACKSPASH
- CAULKED CMU BASE AT EPOXY PAINT ONLY
- METAL GRATING
- PROVIDE FRP TO 8'-0" BEHIND SINK BACKSPASH AND SHOWER

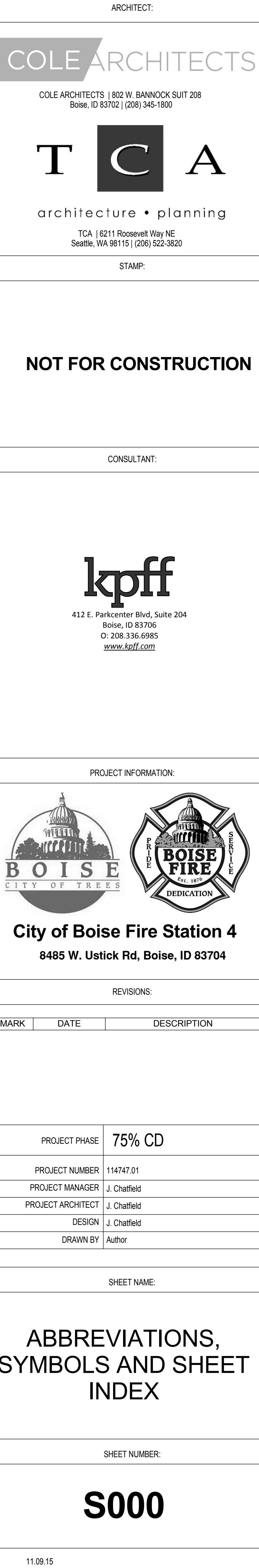
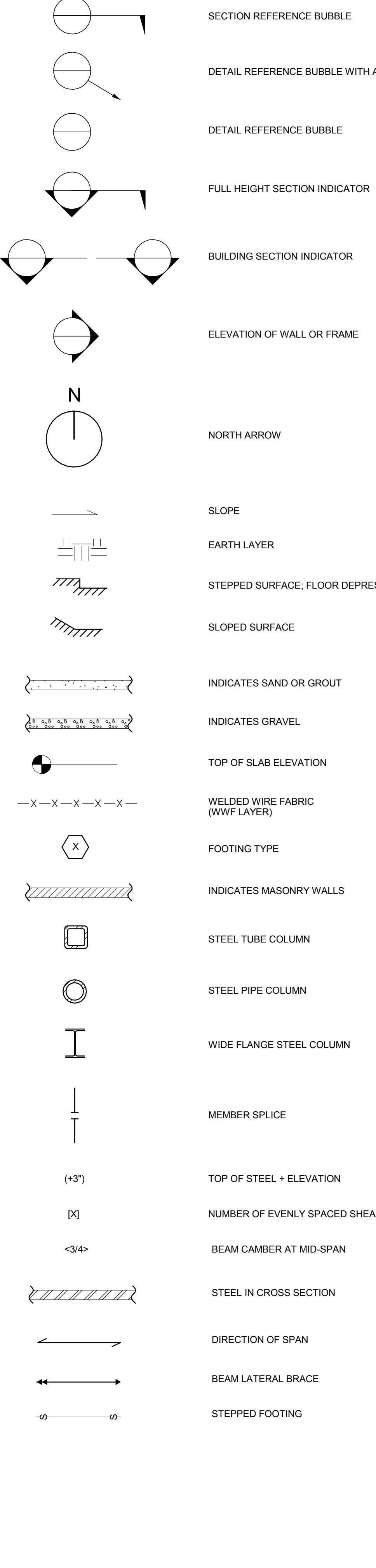
ABBREVIATIONS

SYMBOLS

SHEET INDEX

Sheet Number	Sheet Name
S000	ABBREVIATIONS, SYMBOLS AND SHEET INDEX
S001	GENERAL STRUCTURAL NOTES
S002	GENERAL STRUCTURAL NOTES
S003	GENERAL STRUCTURAL NOTES
S201	FOUNDATION PLAN
S202	LEVEL 2 FRAMING PLAN
S203	ROOF FRAMING PLAN
S300	EXTERIOR ELEVATIONS
S301	EXTERIOR ELEVATIONS
S350	WALL/FRAME ELEVATIONS
S400	BUILDING SECTIONS
S401	BUILDING SECTIONS
S450	WALL SECTIONS
S451	WALL SECTIONS
S452	WALL SECTIONS
S501	TYPICAL CONCRETE DETAILS
S502	TYPICAL CONCRETE DETAILS
S503	TYPICAL CONCRETE DETAILS
S601	TYPICAL MASONRY DETAILS
S602	TYPICAL MASONRY DETAILS
S650	MASONRY DETAILS
S701	TYPICAL STEEL DETAILS
S702	TYPICAL STEEL DETAILS
S703	TYPICAL STEEL DETAILS
S704	TYPICAL STEEL DETAILS
S705	TYPICAL STEEL DECK DETAILS
S706	TYPICAL STEEL DECK DETAILS
S707	TYPICAL STEEL DECK DETAILS
S750	STEEL DETAILS
S800	STAIR PLANS AND SECTIONS
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S900	EXTERIOR WALL TYPICAL DETAILS
S901	EXTERIOR WALL TYPICAL DETAILS
S902	EXTERIOR WALL TYPICAL DETAILS
S903	EXTERIOR WALL TYPICAL DETAILS
S904	EXTERIOR WALL TYPICAL DETAILS
S905	TYPICAL EXTERIOR WALL DETAILS

AB	ANCHOR BOLT	EXIST or (E)	EXISTING	OC	ON CENTER
ACI	AMERICAN CONCRETE INSTITUTE	EXT	EXTERIOR	OD	OUTSIDE DIAMETER
ADDL	ADDITIONAL	FDN	FOUNDATION	OF	OUTSIDE FACE
ADJ	ADJACENT	FF	FAR FACE	OH	OPPOSITE HAND
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL	FF	FINISHED FLOOR	OPNG	OPENING
AGGR	AGGREGATE	FIN	FINISH	OPP	OPPOSITE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	FJ	FLOOR JOIST	ORIG	ORIGINAL
ALT	ALTERNATE	FL	FLOOR LINE	PARA OR //	PARALLEL
ALUM	ALUMINUM	FLG	FLANGE	PERP	PERPENDICULAR
ANCH	ANCHOR	FLR	FLOOR		
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	FOC	FACE OF CONCRETE		
APPVD	APPROVED	FOM	FACE OF MASONRY	PIPE	STANDARD PIPE SHAPE
APPROX	APPROXIMATE	FOS	FACE OF STUD	PIPE-X	EXTRA STRONG PIPE SHAPE
ARCH	ARCHITECTURAL; ARCHITECT	FOW	FACE OF WALL	PIPE-XX	DBL EXTRA STRONG PIPE SHAPE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	FP	FULL PENETRATION; FIRE PROOFING	PL	PLATE
AWPA	AMERICAN WOOD PRESERVERS ASSOCIATION	FRMG	FRAMING		
AWS	AMERICAN WELDING SOCIETY	FS	FULL SIZE; FAR SIDE	PLF	POUNDS PER LINEAL FOOT
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION	FT	FOOT; FEET		
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	FTG	FOOTING		
&	AND	GA	GAUGE		
@	AT	GALV	GALVANIZED	PW	PLATE WASHER
BLDG	BUILDING	GLB	GLUED LAMINATED BEAM	PJP	PARTIAL JOINT PENETRATION WELD
BLK	BLOCK	GR	GRADE	PREFAB	PREFABRICATED
BLKG	BLOCKING	GRND	GROUND	PSF	POUNDS PER SQUARE FOOT
BM	BEAM	H or HORIZ	HORIZONTAL	PSI	POUNDS PER SQUARE INCH
BNDRY	BOUNDARY	HDR	HEADER	PVC	POLYVINYL CHLORIDE
BOT OR B	BOTTOM	HGR	HANGER	PVMT	PAVEMENT
BOD	BOTTOM OF DECK	HGT	HEIGHT	#	POUND; NUMBER
BRC	BRACE			REF	REFERENCE
BRG	BEARING			REINF	REINFORCE; REINFORCING
BT	BENT	HP	HIGH POINT	REQD	REQUIRED
BTWN	BETWEEN	HS	HIGH STRENGTH	RF	ROOF
C	AMERICAN STD CHANNEL SHAPE	HSS	HOLLOW STRUCTURAL STEEL SHAPE	Ø	ROUND; DIAMETER
CANT	CANTILEVER	HT	HEIGHT	SCHED	SCHEDULE
CAM OR C	CAMBER			SECT	SECTION
CC	CENTER TO CENTER	ID	INSIDE DIAMETER		
CG	CENTER OF GRAVITY	IF	INSIDE FACE	SHT	SHEET
CIP	CAST-IN-PLACE			SHTG	SHEATHING
CJ	CONSTRUCTION JOINT; CONTROL JOINT	IN	INCH	SIM	SIMILAR
CL	CENTER LINE	INCL	INCLUDE	SLBB	SHORT LEGS BACK-TO-BACK
CLR	CLEARANCE; CLEAR	INFO	INFORMATION	SOG	SLAB ON GRADE
CMU	CONCRETE MASONRY UNIT	INSP	INSPECTION	SPECS	SPECIFICATIONS
COL	COLUMN	INT	INTERIOR	SQ	SQUARE
COMP	COMPRESSION			ST, MT	STRUCT TEE SHAPE
CONC	CONCRETE	JST	JOIST	STAGG	STAGGER
CONN	CONNECTION; CONNECT	JT	JOINT	STD	STANDARD
CONSTR	CONSTRUCTION			STGR	STAGGER
CONT	CONTINUE; CONTINUOUS	K	KIPS	STIFF	STIFFENERS
C CONTR	CONTRACTOR	KSI	KIPS PER SQUARE INCH	STIRR	STIRRUP
CJP	COMPLETE JOINT PENETRATION WELD	L	ANGLE SHAPE	STL	STEEL
CTR	CENTER	LB(S) OR #	POUND(S)	STRUCT	STRUCTURAL
CTSK	COUNTERSINK; COUNTERSUNK	LF	LINEAL FOOT	SYM	SYMMETRICAL
CU FT	CUBIC FOOT	LIN	LINEAL; LINEAR		
DBL	DOUBLE	LLBB	LONG LEGS BACK-TO-BACK	T & B	TOP AND BOTTOM
DEPT	DEPARTMENT	LLH	LONG LEG HORIZONTAL	T & G	TONGUE & GROOVE
DET	DETAIL	LLV	LONG LEG VERTICAL	TO	TOP OF
DIA OR Ø	DIAMETER	LP	LOW POINT	TOC	TOP OF CURB; TOP OF CONCRETE
DIAG	DIAGONAL			TOF	TOP OF FOOTING
DIAPH	DIAPHRAGM	LT WT	LIGHTWEIGHT	TEMP	TEMPERATURE; TEMPORARY
DIM	DIMENSION	LVL	LEVEL	THRU	THROUGH
DN	DOWN	MAS	MASONRY	THK	THICKNESS/THICK
DO	DITTO (REPEAT)	MATL	MATERIAL	THR	THREADED
DWG	DRAWING	MAX	MAXIMUM	TOS	TOP OF STEEL/TOP OF SLAB
DWL	DOWEL	MB	MACHINE BOLT	TOW	TOP OF WALL
EA	EACH	MC	MISCELLANEOUS CHANNEL SHAPE	TYP	TYPICAL
EF	EACH FACE	MECH	MECHANICAL		
EJ	EXPANSION JOINT	MFR	MANUFACTURER	UNO	UNLESS NOTED OTHERWISE
EL	ELEVATION	MIN	MINIMUM; MINUTE	UT	ULTRA-SONIC TEST
ELEC	ELECTRICAL	MISC	MISCELLANEOUS	VERT	VERTICAL
ELEV	ELEVATOR	(N)	NEW	W	W SHAPE
EMBED	EMBEDMENT	N	NORTH	W/	WITH
ENGR	ENGINEER	NF	NEAR FACE	W/O	WITHOUT
EQ	EQUAL OR EQUIVALENT	NORM	NORMAL	WP	WORK POINT; WATERPROOF
EQUIP	EQUIPMENT	NO or #	NUMBER	WT	WEIGHT; STRUCTURAL TEE SHAPE
ES	EACH SIDE	NS	NEAR SIDE	WWF	WELDED WIRE FABRIC
ETC	ET CETERA	NTS	NOT TO SCALE		
EW	EACH WAY	5			



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PROJECT INFORMATION:

City of Boise Fire Station 4
8485 W. Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE **75% CD**

PROJECT NUMBER 114747.01

PROJECT MANAGER J. Chatfield

PROJECT ARCHITECT J. Chatfield

DESIGN J. Chatfield

DRAWN BY Author

SHEET NAME:

GENERAL
STRUCTURAL NOTES**S001**

SHEET NUMBER:

11.09.15

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

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

OPEN WEB STEEL JOISTS:

- 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.
- 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.
- NON-COMPOSITE LONGSPAN STEEL JOISTS, NOTED AS TYPE "LH", SHALL COMPLY WITH SJI-LHD/LH-2010 STANDARD SPECIFICATION FOR LONGSPAN STEEL JOISTS, 2010. DO NOT CAMBER NON-COMPOSITE STEEL JOISTS.
- MAXIMUM BEARING SEAT DEPTH FOR ALL OPEN WEB STEEL JOISTS IS 5".

DATE ISSUED ADDITION

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, $P_m = 25 \text{ PSF}$ SNOW LOAD EXPOSURE FACTOR, $C_e = 0.9$ THERMAL FACTOR, $C_t = 1.0$ SNOW LOAD IMPORTANCE FACTOR, $I_s = 1.0$

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

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

WIND SPEED, $V_{UL} = 120 \text{ MPH}$ (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:	$S_s = 0.304$
	$S_1 = 0.105$
SITE CLASS	D
	$S_{DS} = 0.316$
SPECTRAL RESPONSE COEFFICIENTS:	$S_{DI} = 0.166$
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	$\Omega_o = 2.5$
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 NOT 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 A 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 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 CESPOOLS, 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 LACING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES. BRAZED SHORING DESIGN EMPLOYING TIE-BACK ANCHORS, WHEN USED, SHALL BE SUBMITTED TO SEOR FOR REVIEW AND APPROVAL.

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

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

SHEET NUMBER:

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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

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	GROUT 28 DAY 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 2104.5.1.2.12 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 IF 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 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 PUDDLE WELDS AT 1"-0" O.C. MAX. SHEAR STUDS WELDED THROUGH DECK MAY BE USED IN PLACE OF 3/4" DIAMETER PUDDLE 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 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 PROCEDURE SPECIFICATIONS 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 FCW-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 BAR IS TO BE REMOVED AND THE ROOT INSPECTED. IF IMPERFECTIONS ARE FOUND, THEY ARE TO BE REMOVED AND REPAIRED 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 REPAIRED 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 RATIO	MAX % FLY ASH ASH BY WT

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COLD-FORMED STEEL (LIGHT GAGE METAL FRAMING)

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1. ALL LIGHT GAGE METAL FRAMING CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION 2211A OF THE CODE AND AISI S100-07 SPECIFICATIONS FOR DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS".

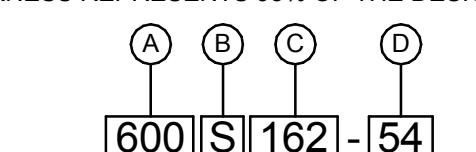
2. MEMBER IDENTIFICATION SHALL BE AS SHOWN:

- (A) MEMBER DEPTH:
(EXAMPLE: 6" = 600/100 INCHES)
ALL MEMBER DEPTHS ARE TAKEN IN 1/100 INCH INCREMENTS. FOR "T" SECTIONS, MEMBER DEPTH IS THE INSIDE TO INSIDE DIMENSION.

- (B) STYLE:
(EXAMPLE: STUD OR JOIST SECTION = "S")
THE FOUR ALPHA CHARACTERS USED TO DESIGNATE THE TYPE OF SECTION ARE:
· S = STUD OR JOIST SECTIONS
· T = TRACK SECTIONS
· U = CHANNEL SECTIONS
· F = FURRING CHANNEL SECTIONS

- (C) FLANGE WIDTH:
(EXAMPLE: 1 5/8" = 162/100 INCHES)
ALL MEMBER FLANGE WIDTH ARE TAKEN IN 1/100 INCH INCREMENTS.

- (D) MATERIAL THICKNESS:
(EXAMPLE: 0.054" = 54 MIL = 54/1,000 INCHES)
MATERIAL THICKNESS IS THE MINIMUM BASE METAL THICKNESS IN MILS. MINIMUM BASE METAL THICKNESS REPRESENTS 95% OF THE DESIGN THICKNESS.



3. ALL CALCULATED MEMBER PROPERTIES PER AISI SPECIFICATIONS ARE BASED ON THE FOLLOWING THICKNESSES:

MINIMUM THICKNESS	REFERENCE GAGE	DESIGN THICKNESS
33 MIL	20 GA - STRUCTURAL	0.0346"
43 MIL	18 GA	0.0451"
54 MIL	16 GA	0.0566"
68 MIL	14 GA	0.0713"
97 MIL	12 GA	0.1017"
118 MIL	10 GA	0.1242"

4. ALL LIGHT GAGE METAL FRAMING SHALL CONFORM WITH THE FOLLOWING:

GALVANIZED STUDS & TRACKS: ASTM A653 SQ, GR 50
12 (97), 14 (68) OR 16 (54) GAGE (MILS) (Fy = 50,000 PSI)

GALVANIZED STUDS & TRACKS: ASTM A653 SQ, GR 33
18 (43), 20 (33) GAGE (MILS) (Fy = 33,000 PSI)

GALVANIZED BACKING PLATES: ASTM A653 SQ, GR 50
(Fy = 50,000 PSI)

GALVANIZED END CLOSURES, BRIDGING AND ACCESSORIES: ASTM A653 SQ, GR 33
(Fy = 33,000 PSI)

5. ALL LIGHT GAGE METAL FRAMING SHALL BE GALVANIZED.

6. DOUBLE VERTICAL STUDS SHALL BE STITCH WELDED TOGETHER ON BOTH FLANGES WITH 1/16" GROOVE WELDS x 1" LONG AT 12" ON CENTER, U.N.O. ON DRAWINGS.

7. TOP AND BOTTOM TRACK GAGE THICKNESS SHALL MATCH THE GAGE THICKNESS OF THE WALL STUDS, U.N.O.

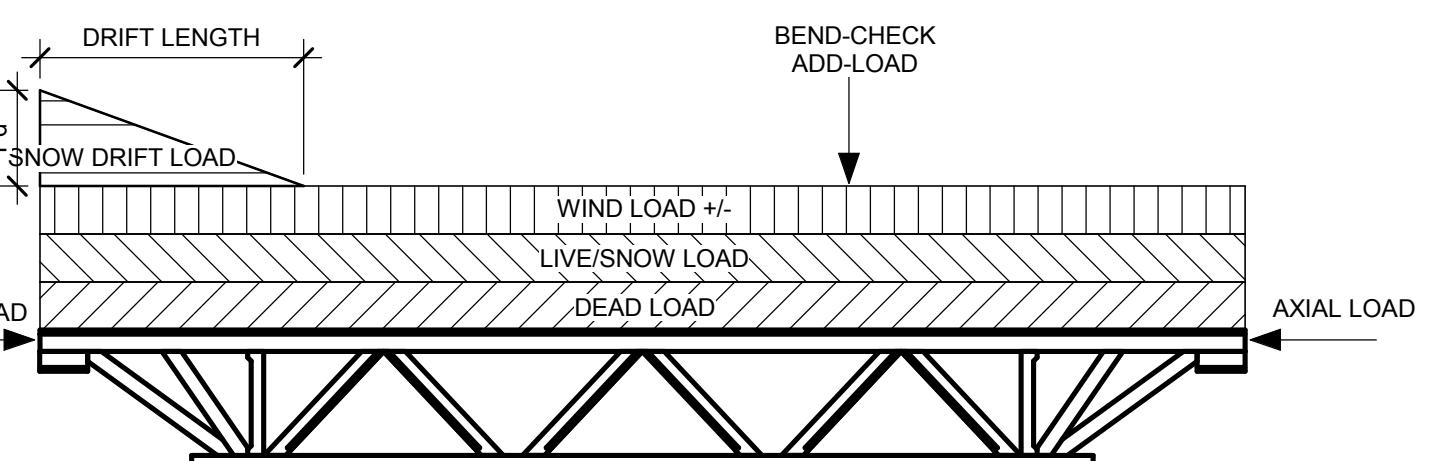
8. ALL SHEET METAL SCREWS SHALL PROTRUDE 1/4" MIN THROUGH METAL FRAMING.

9. THE CONTRACTOR IS PROHIBITED FROM USING TORCHES TO BURN HOLES IN TRACKS OR STUDS.

OPEN WEB STEEL JOISTS:

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- 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.
- 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.
- NON-COMPOSITE LONGSPAN STEEL JOISTS, NOTED AS TYPE "LH", SHALL COMPLY WITH SJ/LH/DLH-2010 STANDARD SPECIFICATION FOR LONGSPAN STEEL JOISTS, 2010. DO NOT CAMEB NON-COMPOSITE STEEL JOISTS.
- MAXIMUM BEARING SEAT DEPTH FOR ALL OPEN WEB STEEL JOISTS IS 5".



JOIST DESIGNATION	JOIST DEPTH	JOIST SCHEDULE						CONCENTRATED DESIGN LOAD, LB	
		DEAD LOAD ¹	LIVE/SNOW LOAD		P _f PLF	P _d PLF	DRIFT LENGTH		
			P _f PLF	P _d PLF					
OWSJ-01	10"	220	175	98	275	9'-6"	197		
OWSJ-01M	10"	220	175	98	275	9'-6"	197	347	
OWSJ-02	18"	220	175	98	167	5'-6"	197	300	
OWSJ-02M	18"	220	175	98	167	5'-6"	197	300	
OWSJ-03	32"	276	175	98	207	7'-0"	275	45,000	
OWSJ-03A	32"	276	175	98	207	7'-0"	275		
OWSJ-03M	32"	276	175	98	207	7'-0"	275	275	
OWSJ-04	18"	220	175	98	212	7'-6"	197		

- DEAD LOADS LISTED ARE SUPERIMPOSED LOADS. SELF-WEIGHT OF JOISTS ARE NOT INCLUDED
- WIND UPLIFT VALUES PROVIDED ARE SERVICE-LEVEL WIND PRESSURES FROM ASCE 7-10, SECTION 30.4. NET UPLIFT SHALL BE DETERMINED USING THE APPROPRIATE LOAD COMBINATIONS OF ASCE 7-10.
- FOR ADD-LOAD, DESIGN JOIST FOR CONCENTRATED LOADS LOCATED AT ANY ONE PANEL POINT ALONG THE JOIST. ADD LOADS SHOULD BE CONSIDERED AS DEAD LOADS.
- FOR BEND-CHECK, DESIGN JOIST TOP CHORD FOR ADDITIONAL BENDING STRESSES RESULTING FROM CONCENTRATED LOADS LOCATED AT ANY LOCATION ALONG CHORD.
- AXIAL LOADS PROVIDED ARE DRAG LOADS USING AMPLIFIED SEISMIC LOAD COMBINATIONS.
- COMBINE FLAT ROOF SNOW LOAD (P_f) AND DRIFT LOAD (P_d). DRIFT LOADS INDICATED SHOULD BE APPLIED TO BOTH ENDS OF JOIST U.N.O.

STRUCTURAL STEEL

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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 (UNLESS OTHERWISE NOTED ON DRAWINGS)	A36
PIPE COLUMNS	A53, GR B
HSS SECTIONS	A500, GR B
HIGH STRENGTH BOLTS (AS NOTED ON DRAWINGS)	A325/F1852, A490SC/F2280SC
ANCHOR RODS (AS NOTED ON DRAWINGS)	A325CF1852SC
	F1554 GR36/55/105
	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 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. ALL ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL CONFORM TO REQUIREMENTS OF AISC 303-10.

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 INSPECTIONS SECTION FOR WELDING INSPECTION REQUIREMENTS. ALL WELDING FOR ELEMENTS OF THE LATERAL FORCE RESISTING SYSTEM SHALL PER AWS D1.8-09.

9. THE CONTRACTOR SHALL SUBMIT ALL WELDING PROCEDURE SPECIFICATIONS FOR REVIEW AND APPROVAL BY SEOR. THE SUBMITTED WELDING PROCEDURES SHALL INCLUDE ONLY THOSE PROCEDURES RELEVANT TO THIS PROJECT. ALL WELDED JOINTS SHALL BE PREQUALIFIED PER AWS OR BE QUALIFIED BY TEST PER AWS. A PROCEDURE QUALIFICATION RECORD (POR) 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 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.

12. THE USE OF E70-T4 WELDING WIRE IS NOT ALLOWED FOR ANY APPLICATION.

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 FCW-S, SUBMIT A WELDING PROCEDURE SPECIFICATION (WPS) AND QUALIFY BY TESTING.

15. BACKUP BARS MAY REMAIN IN PLACE UNLESS NOTED ON PLANS, OR WHEN ULTRASONIC TESTING INDICATES A POSSIBLE WELD DEFECT. IF DEFECTS ARE INDICATED BACKUP BAR IS TO BE REMOVED AND THE ROOT INSPECTED. IF IMPERFECTIONS ARE FOUND, THEY ARE TO BE REMOVED BY BACKGOUGING TO SOUND MATERIAL & CLEANED BY GRINDING IF BACKGOUGED BY AIR ARC METHOD. THE BACKGOUGED AREA OF THE WELD IS TO BE REWELDED.

16. ALL INTERIOR EXPOSED WELDS, WHICH ARE LOCATED WITHIN A HEIGHT OF 6'0" FROM THE INTERIOR FINISH FLOOR ELEVATION, SHALL BE GROUND SMOOTH AND FREE OF BURS AND SURFACE IRRREGULARITIES. SEE SPECIFICATIONS FOR ADDITIONAL PAINTING AND FINISH INFORMATION.

HEADED STUDS

- ALL HEADED STUDS WELDED TO BEAMS OR CONCRETE CONNECTIONS SHALL BE TRU-WELD STUDS PER ICC-ESR 2577, OR NELSON STUDS PER ICC-ESR 2856, OR APPROVED EQUAL.
- ALL HEADED STUDS SHALL BE AUTOMATICALLY END WELDED IN SHOP OR FIELD WITH EQUIPMENT RECOMMENDED BY MANUFACTURER OF STUDS IN SUCH A MANNER AS TO PROVIDE COMPLETE FUSION BETWEEN THE WELDED END OF THE STUD AND THE PLATE. WELDING SHALL BE DONE ONLY BY QUALIFIED WELDERS APPROVED BY AN AWS CERTIFIED WELD INSPECTOR.
- STEEL SHEAR STUD MATERIAL, WELDING AND INSPECTION SHALL BE IN ACCORDANCE WITH "STRUCTURAL WELDING CODE", AWS D1.1-10. ALL STUDS SHALL BE 3/4" DIAMETER X 5" LONG, SPACED AT 12" O.C. MAXIMUM, UNO.

STEEL DECK

1. ROOF AND FLOOR DECK SHALL BE AS NOTED ON THE DRAWINGS. MINIMUM PROPERTIES ARE AS FOLLOWS:

DECK PROFILE AND GAGE	I (IN4)	+S(N3)	-S(N3)	FY (KSI)
3" x 18GA DECK	1.213	0.752	0.768	50
HSB-36 x 18GA DECK	0.304	0.318	0.331	40

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

3. 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.

4. 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.

5. 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.

6. 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.

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

SPECIAL INSPECTIONS

SPECIAL INSPECTION SCHEDULE 1,2,3 ESTABLISHED PER 2009 IBC SECTION 110 & CHAPTER 17			
ITEM	CONTINUOUS INSPECTION	PERIODIC 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 $\leq 5/16"$		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 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 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 (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, 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-OF-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 (AASHTO 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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Boise, ID 83706
O: 208.336.6985
www.kpff.com**City of Boise Fire Station 4**
8485 W. Ustick Rd, Boise, ID 83704

PROJECT INFORMATION:		
C		
REVISIONS:		
MARK	DATE	DESCRIPTION
PROJECT PHASE 75% CD		
PROJECT NUMBER 114747.01		
PROJECT MANAGER J. Chatfield		
PROJECT ARCHITECT J. Chatfield		
DESIGN J. Chatfield		
DRAWN BY NLP		
SHEET NAME:		

GENERAL STRUCTURAL NOTES

D	
0	
SHEET NUMBER:	
S003	
11.09.15	

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PROJECT INFORMATION:

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8485 W. Ustick Rd, Boise, ID 83704

REVISIONS:

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PROJECT PHASE 75% CD

PROJECT NUMBER	114747.01
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	Author

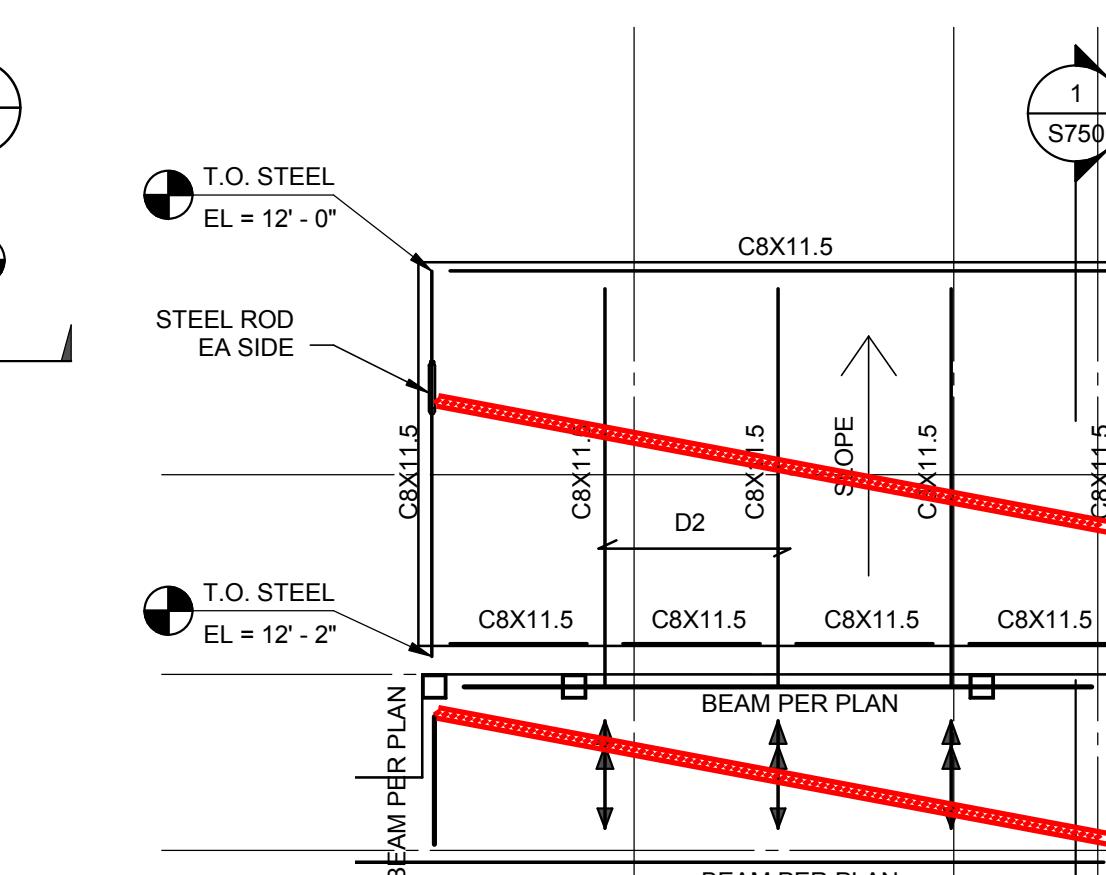
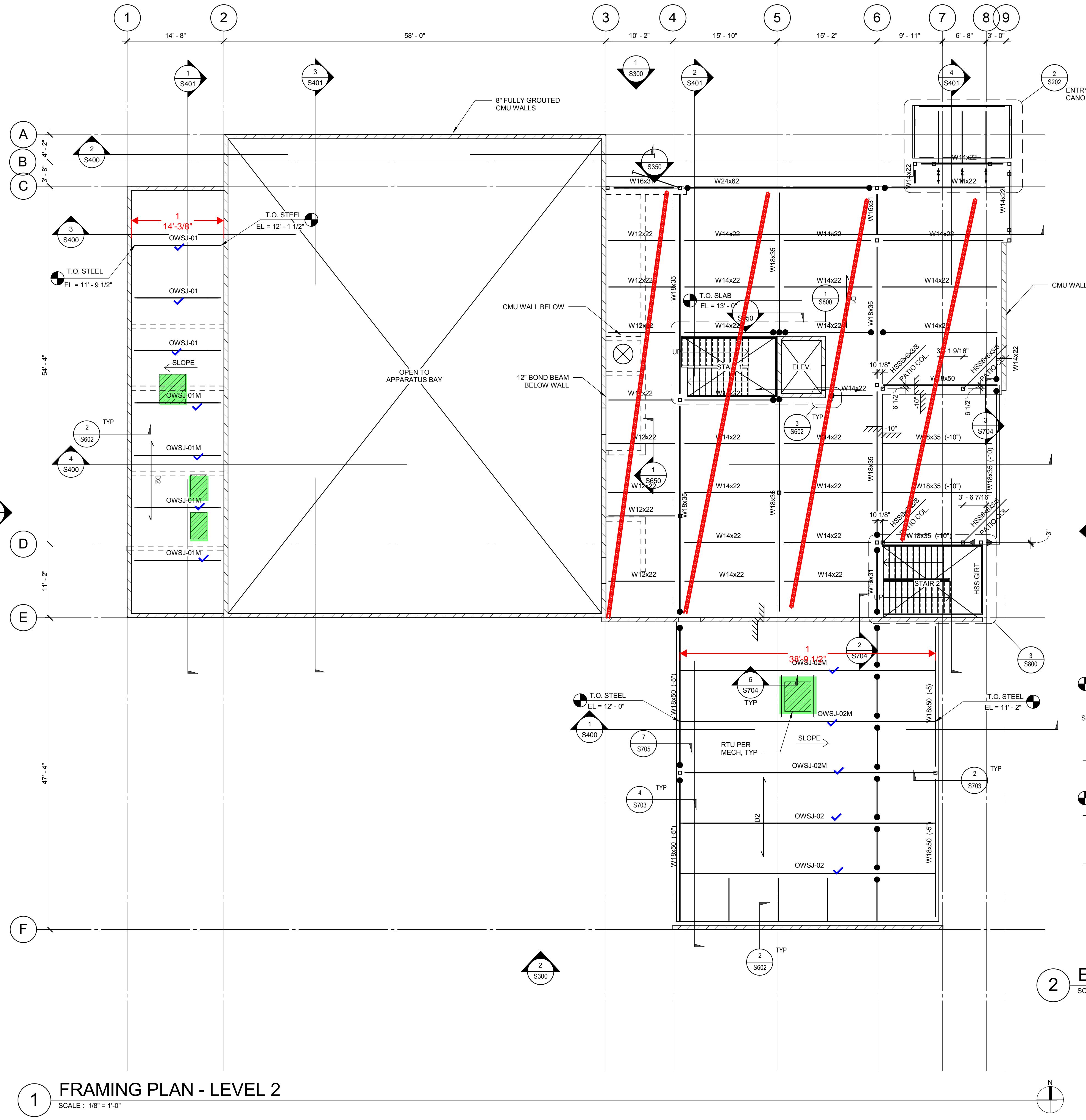
SHEET NAME:

LEVEL 2 FRAMING PLAN

SHEET NUMBER:
S202

TYPICAL STEEL FRAMING NOTES:

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



ENTRY CANOPY

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

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8485 W. Ustick Rd, Boise, ID 83704

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REVISIONS:

MARK	DATE	DESCRIPTION
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PROJECT PHASE: 75% CD

PROJECT NUMBER: 114747.01

PROJECT MANAGER: J. Chaffield

PROJECT ARCHITECT: J. Chaffield

DESIGN: J. Chaffield

DRAWN BY: Author

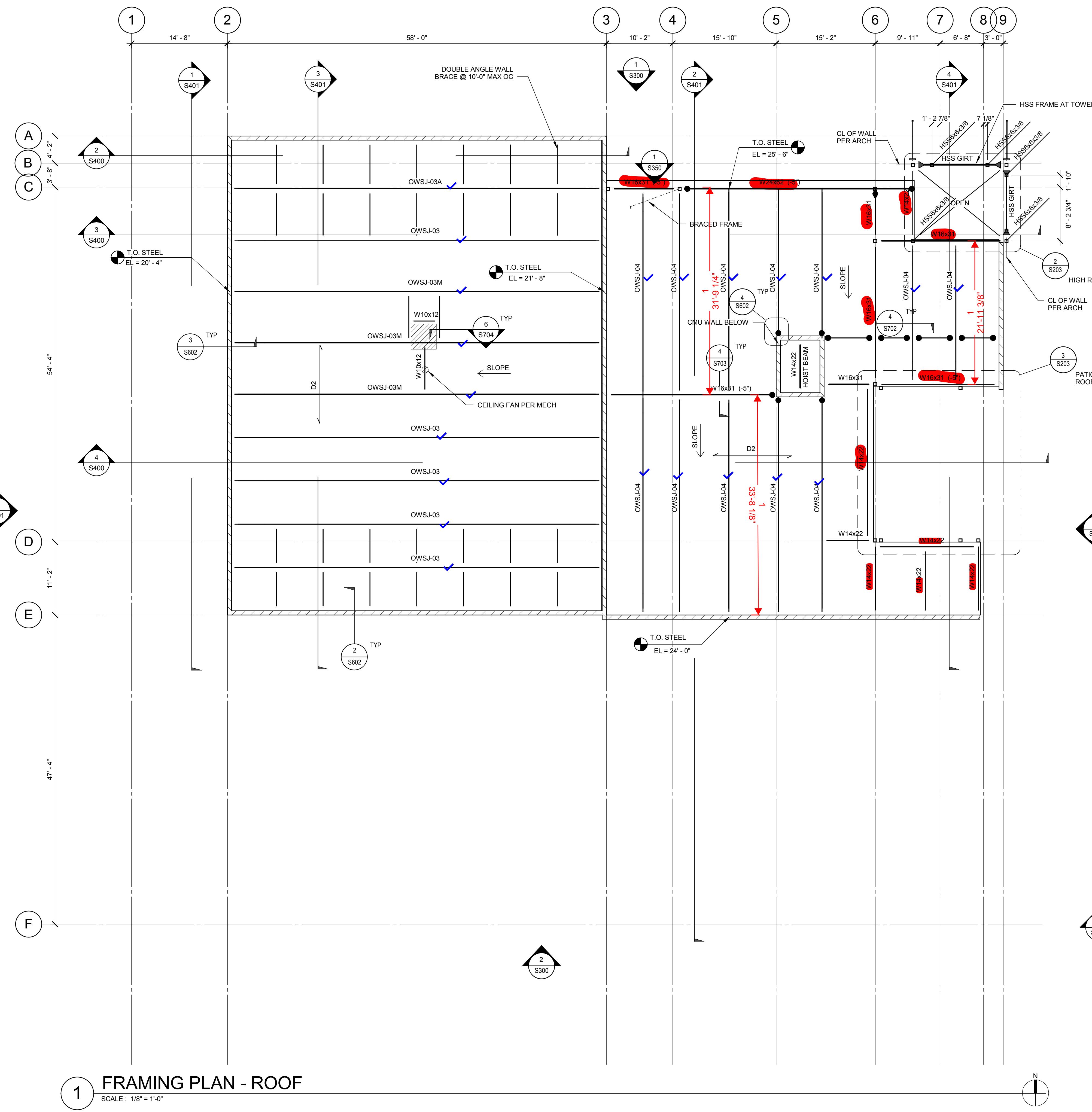
SHEET NAME:

ROOF FRAMING PLAN

SHEET NUMBER:

S203

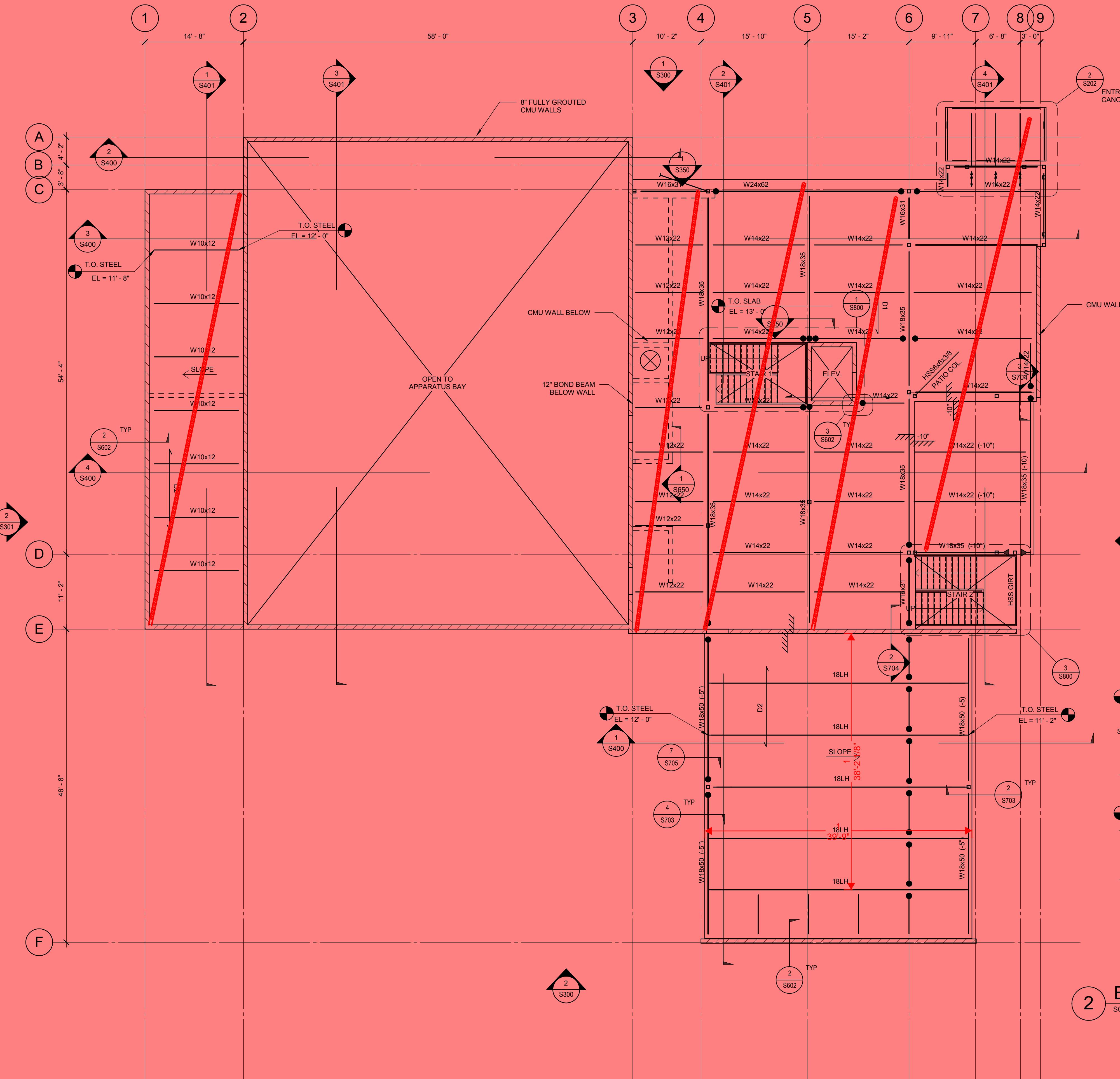
11.09.15



TYPICAL STEEL FRAMING NOTES:

- SEE ARCH SHEETS FOR GRID DIMENSIONS & HORIZONTAL CONTROL.
- SEE S000 SHEET SERIES FOR GENERAL NOTES.
- SEE S601 SHEET SERIES FOR TYPICAL CMU DETAILS.
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- INDICATES DRAG CONNECTION SEE SCHEDULE ON DETAIL 1/S702 FOR OWSJ SEE 5/S703
- ◆ INDICATES FULL HEIGHT STIFFENER PER DETAIL B ON 1/S701
- INDICATES MOMENT CONNECTION SEE DETAILS 2/S702
- ↔ INDICATES BEAM LATERAL BRACE PER DETAIL 1/S704
- LFRS INDICATES LATERAL FORCE RESISTING SYSTEM MEMBERS.
- FOR TYPICAL REINFORCING AT STRUCTURAL CMU WALLS SEE 1/S601
- #HL INDICATES OPEN WEB STEEL JOIST BY CONTRACTOR. SEE GENERAL NOTES FOR LOAD CRITERIA AND DESIGN REQUIREMENTS.

A	CONSULTANT:	
B	PROJECT INFORMATION:	
C	REVISIONS:	
D	MARK DATE DESCRIPTION	
E	PROJECT PHASE: 75% CD	
F	PROJECT NUMBER: 114747.01	
G	PROJECT MANAGER: J. Chaffield	
H	PROJECT ARCHITECT: J. Chaffield	
I	DESIGN: J. Chaffield	
J	DRAWN BY: Author	
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TYPICAL STEEL FRAMING NOTES:

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 - ##LH INDICATES OPEN WEB STEEL JOIST BY CONTRACTOR. SEE GENERAL NOTES FOR LOAD CRITERIA AND DESIGN REQUIREMENTS.

The logo for Cole Architects features the company name in large, bold, black letters at the top. Below it is a dark gray square containing a stylized lowercase 'c'. To the left of the square is a large, bold, black capital letter 'T', and to the right is a large, bold, black capital letter 'A'. At the bottom, the words 'architecture • planning' are written in a smaller, black, sans-serif font.

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City of Boise Fire Station 4

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DESIGN	J. Chatfield

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LEVEL 2 FRAMING PLAN

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S202

1 FRAMING PLAN - LEVEL 2

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

TRY CANOPY

$\therefore 1/4" = 1'-0"$

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PROJECT PHASE 75% CD

PROJECT NUMBER 114747.01

PROJECT MANAGER J. Chatfield

PROJECT ARCHITECT J. Chatfield

DESIGN J. Chatfield

DRAWN BY Author

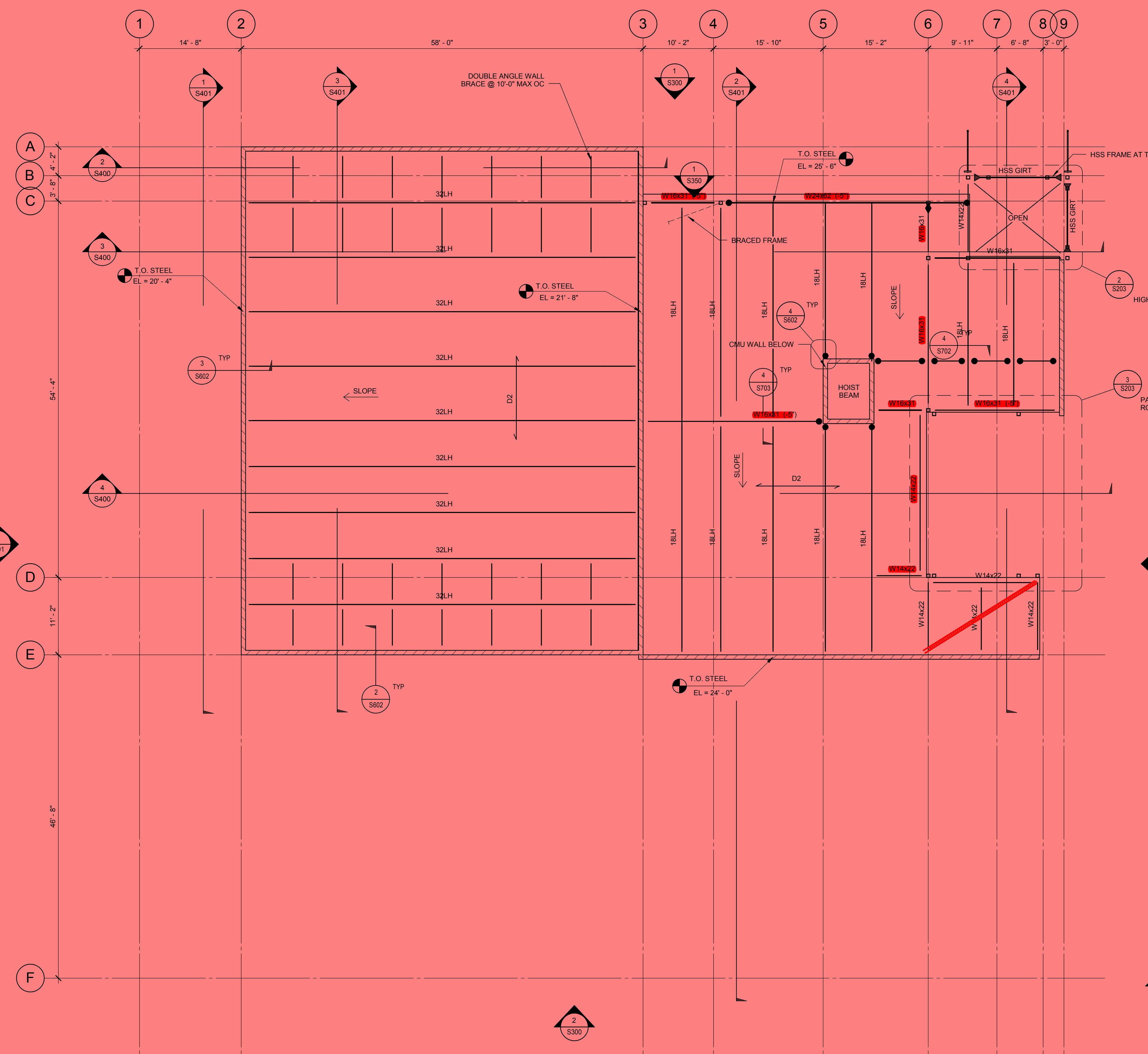
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ROOF FRAMING PLAN

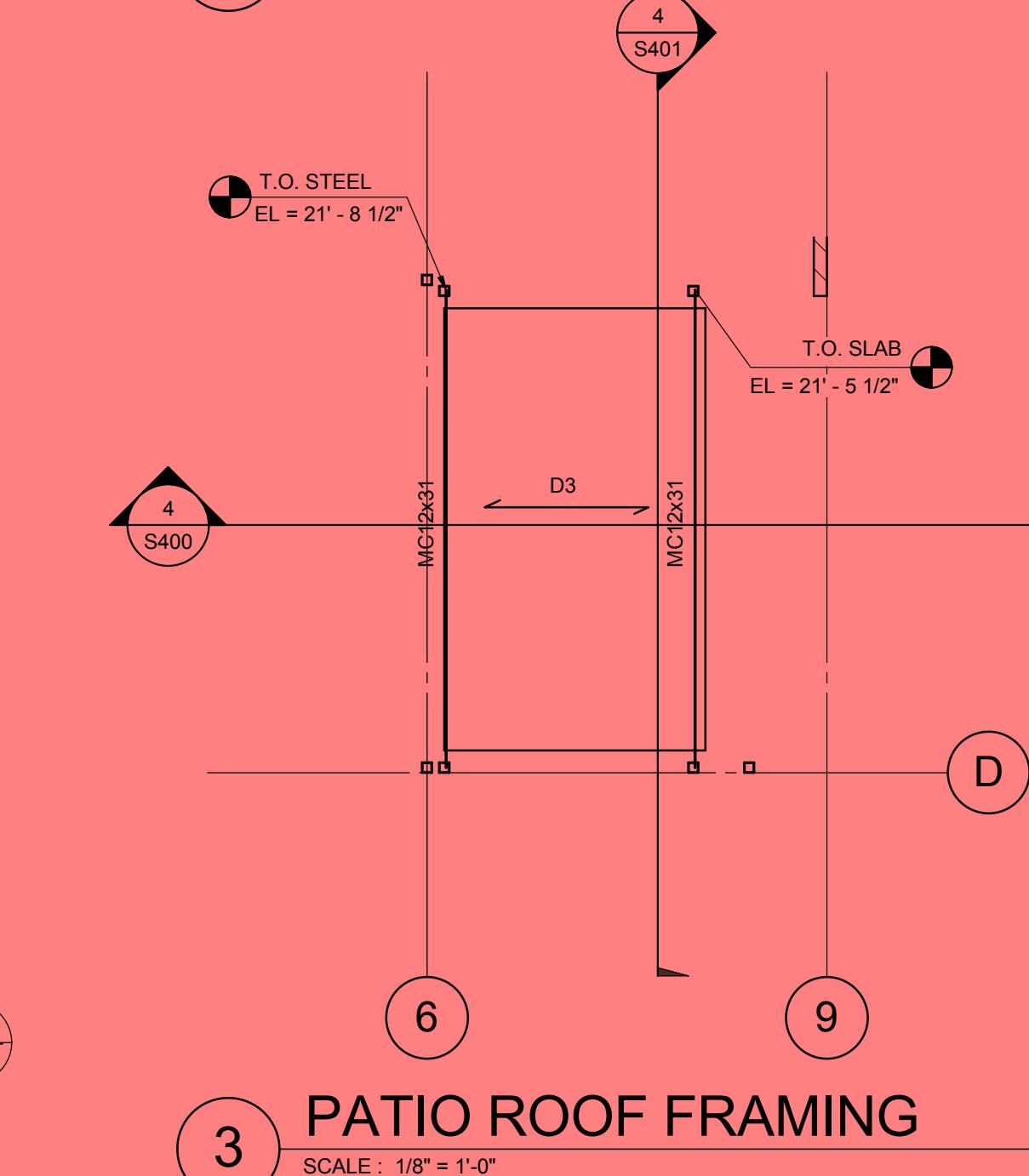
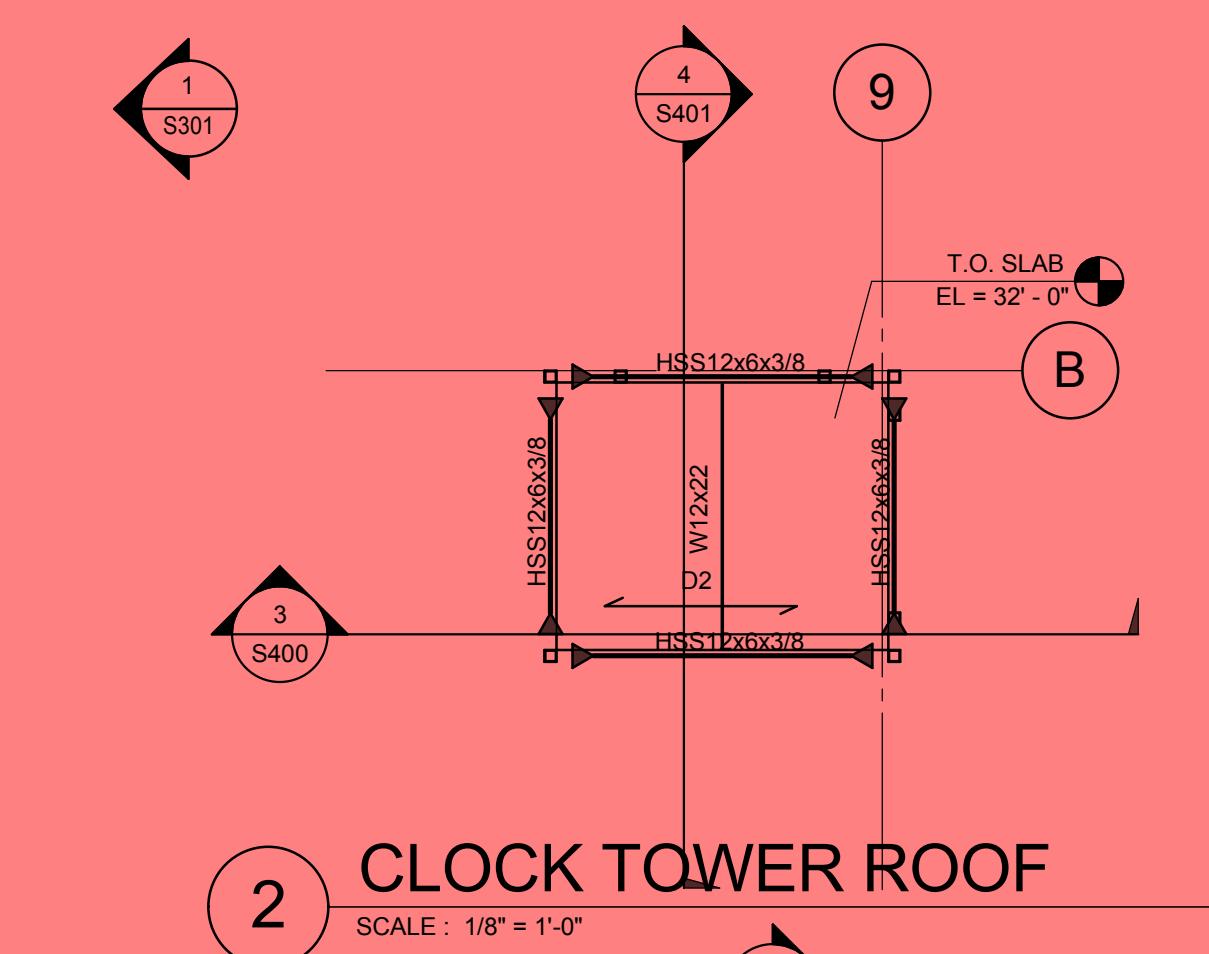
SHEET NUMBER:

S203

11.09.15

**TYPICAL STEEL FRAMING NOTES:**

- SEE ARCH SHEETS FOR GRID DIMENSIONS & HORIZONTAL CONTROL.
- SEE S000 SHEET SERIES FOR GENERAL NOTES.
- SEE S501 SHEET SERIES FOR TYPICAL CMU DETAILS.
- SEE S601 SHEET SERIES FOR TYPICAL STEEL DETAILS.
- ALL BEAMS SHALL BE EQUALLY SPACED BETWEEN COLUMNS UNLESS NOTED OTHERWISE.
- 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.
- T.O.SLAB** INDICATES TOP OF SLAB OR DECK ELEVATION
- (+/-X") INDICATES TOP OF STEEL BEAM RELATIVE THE REFERENCED T.O. STEEL ELEVATION.
- (-/+X") INDICATES FLOOR ELEVATION CHANGE.
- D-1 INDICATES DECK TYPE, SEE DETAIL
- [XX] INDICATES NUMBER OF REQUIRED HEADED STUDS PER
- <X-Y> INDICATES UPWARD BEAM CAMBER AT MIDSPAN.
- INDICATES DRAG CONNECTION SEE SCHEDULE ON DETAIL 1/S702 FOR OWSJ SEE 5/S703
- ◆ INDICATES FULL HEIGHT STIFFENER PER DETAIL B ON 1/S701
- INDICATES MOMENT CONNECTION SEE DETAILS 2/S702
- ↔ INDICATES BEAM LATERAL BRACE PER DETAIL 1/S704
- LFRS INDICATES LATERAL FORCE RESISTING SYSTEM MEMBERS.
- FOR TYPICAL REINFORCING AT STRUCTURAL CMU WALLS SEE 1/S601
- #LH INDICATES OPEN WEB STEEL JOIST BY CONTRACTOR. SEE GENERAL NOTES FOR LOAD CRITERIA AND DESIGN REQUIREMENTS.



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CONSULTANT:



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Boise, ID 83706
O: 208.336.6985
www.kpff.com

PROJECT INFORMATION:



City of Boise Fire Station 4
8485 W. Ustick Rd, Boise, ID 83704

REVISIONS:

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

PROJECT PHASE **75% CD**

PROJECT NUMBER 114747.01

PROJECT MANAGER J. Chatfield

PROJECT ARCHITECT J. Chatfield

DESIGN J. Chatfield

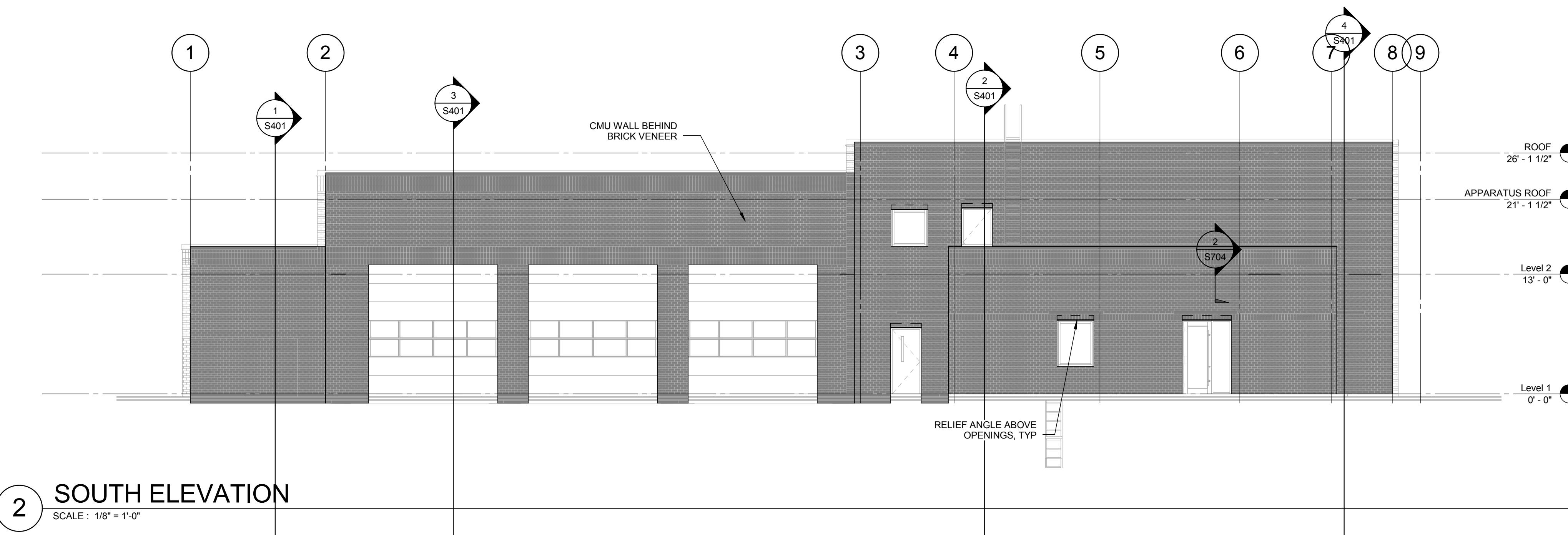
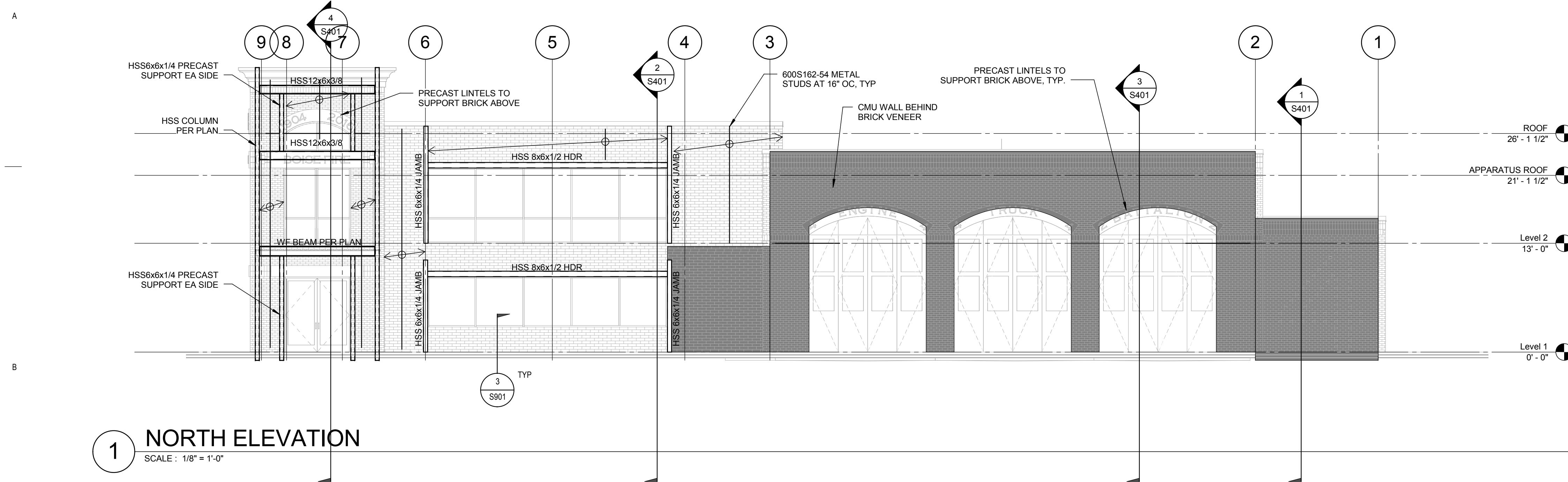
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SHEET NAME:

EXTERIOR ELEVATIONS

SHEET NUMBER:

S300



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PROJECT NUMBER 114747.01
 PROJECT MANAGER J. Chaffield
 PROJECT ARCHITECT J. Chaffield
 DESIGN J. Chaffield
 DRAWN BY Author

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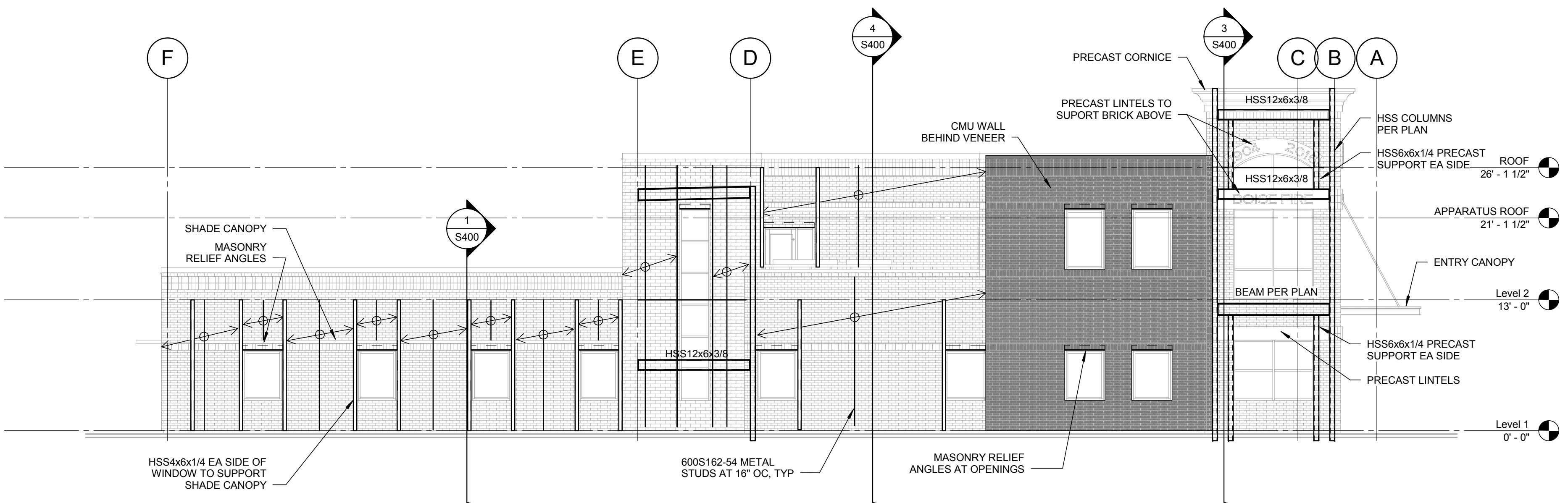
EXTERIOR
ELEVATIONS

SHEET NUMBER:

S301

11.09.15

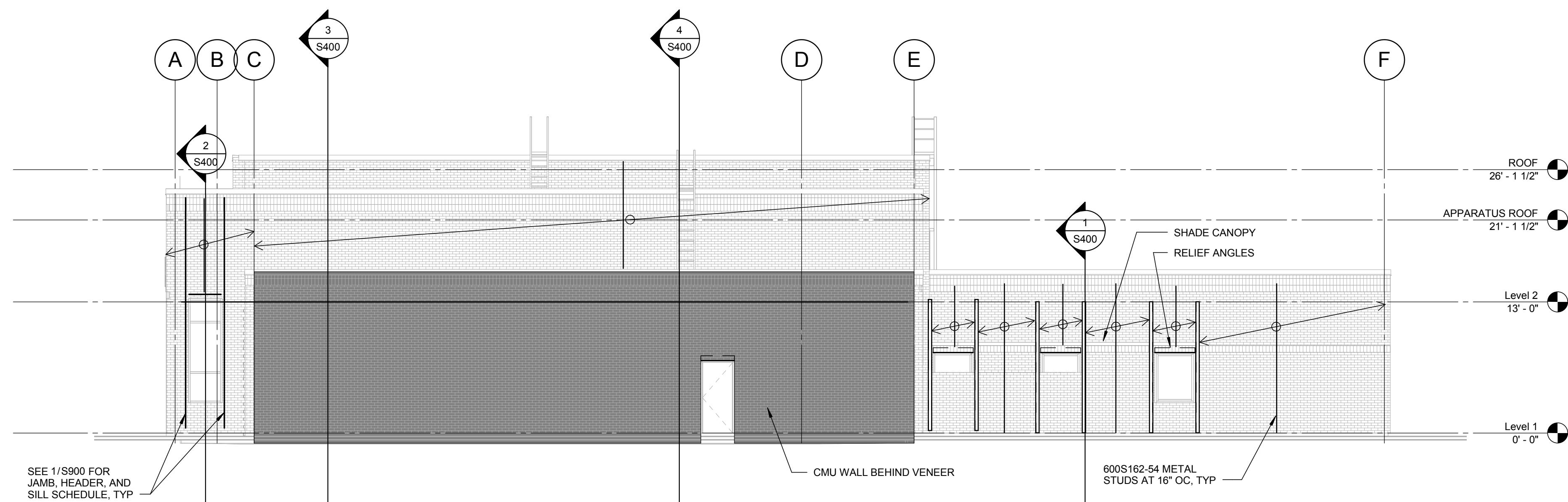
A



1 EAST ELEVATION

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

B



2 WEST ELEVATION

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

D

5

4

3

2

1

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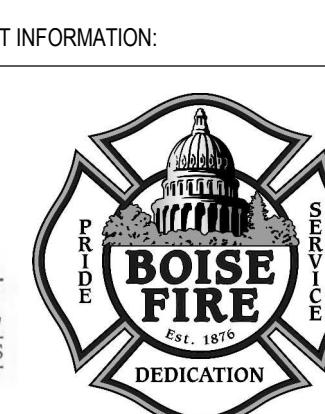
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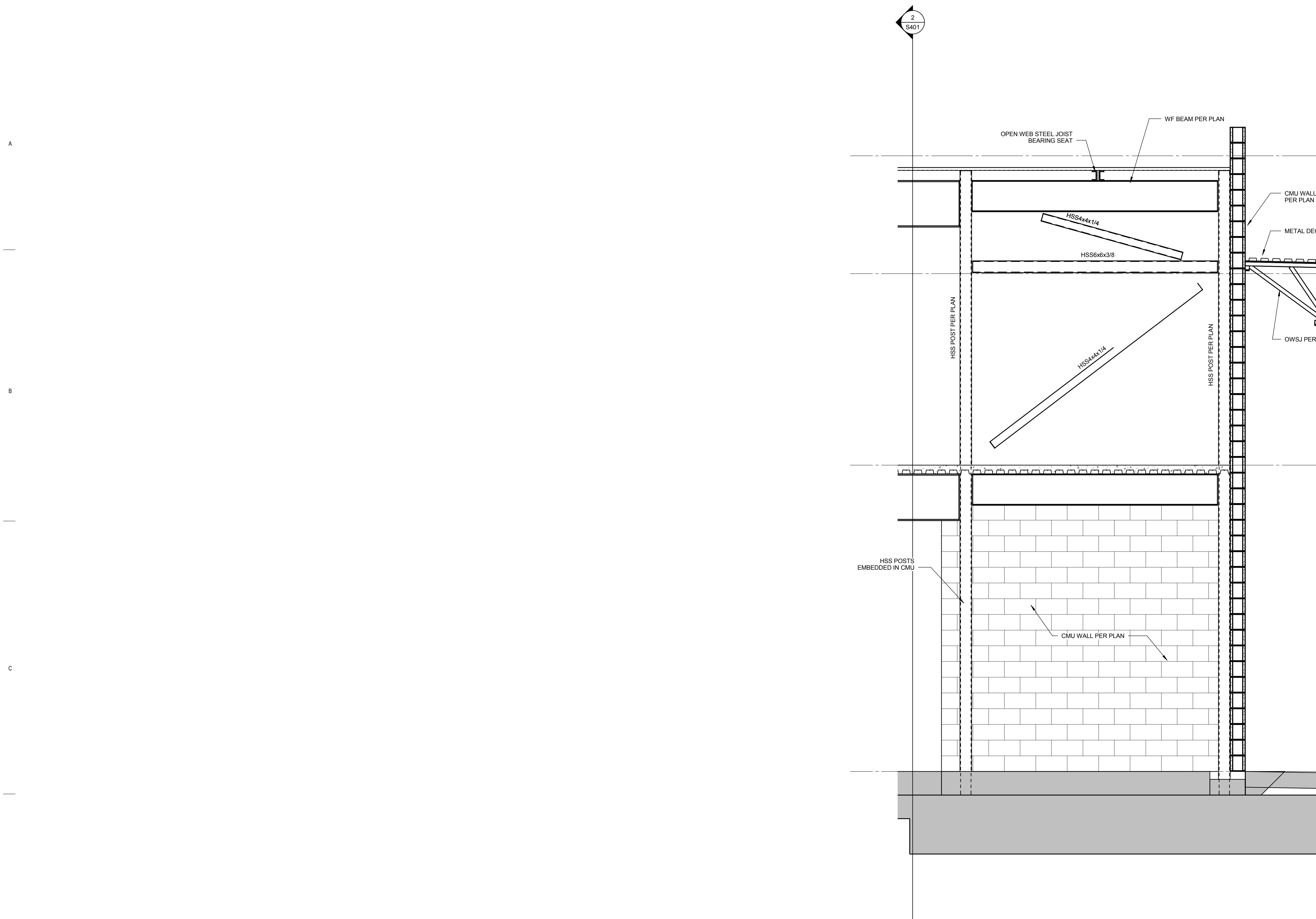
PROJECT PHASE	75% CD
PROJECT NUMBER	114747.01
PROJECT MANAGER	J. Chaffield
PROJECT ARCHITECT	J. Chaffield
DESIGN	J. Chaffield
DRAWN BY	Author
SHEET NAME:	

WALL/FRAME ELEVATIONS

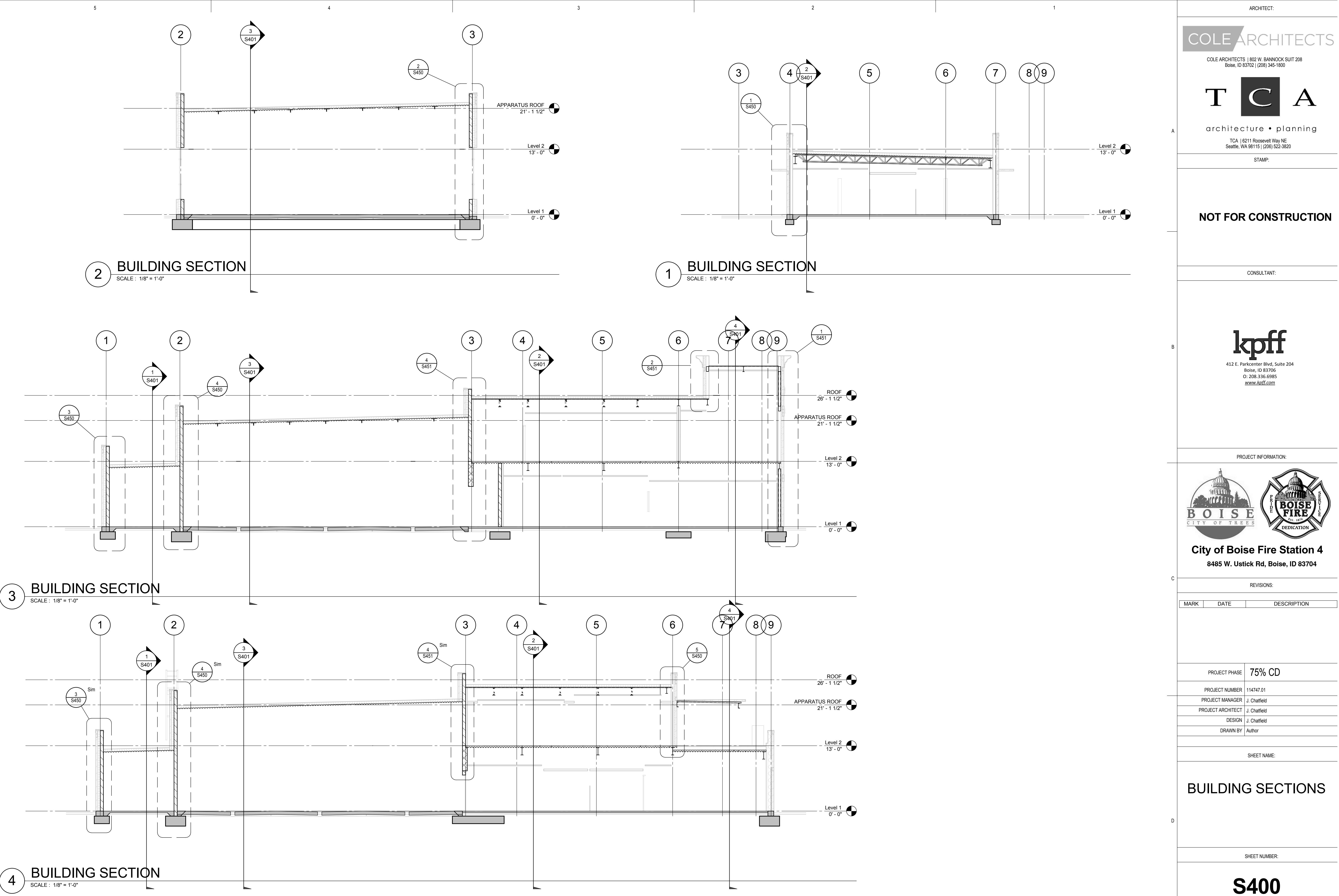
SHEET NUMBER:

S350

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1 WALL/FRAME ELEVATION
SCALE: 1/2" = 1'-0"



ARCHITECT:

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PROJECT INFORMATION:



CITY OF BOISE FIRE STATION 4
8485 W. Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE: 75% CD

PROJECT NUMBER	114747.01
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
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SHEET NAME:

BUILDING SECTIONS

SHEET NUMBER:

S400

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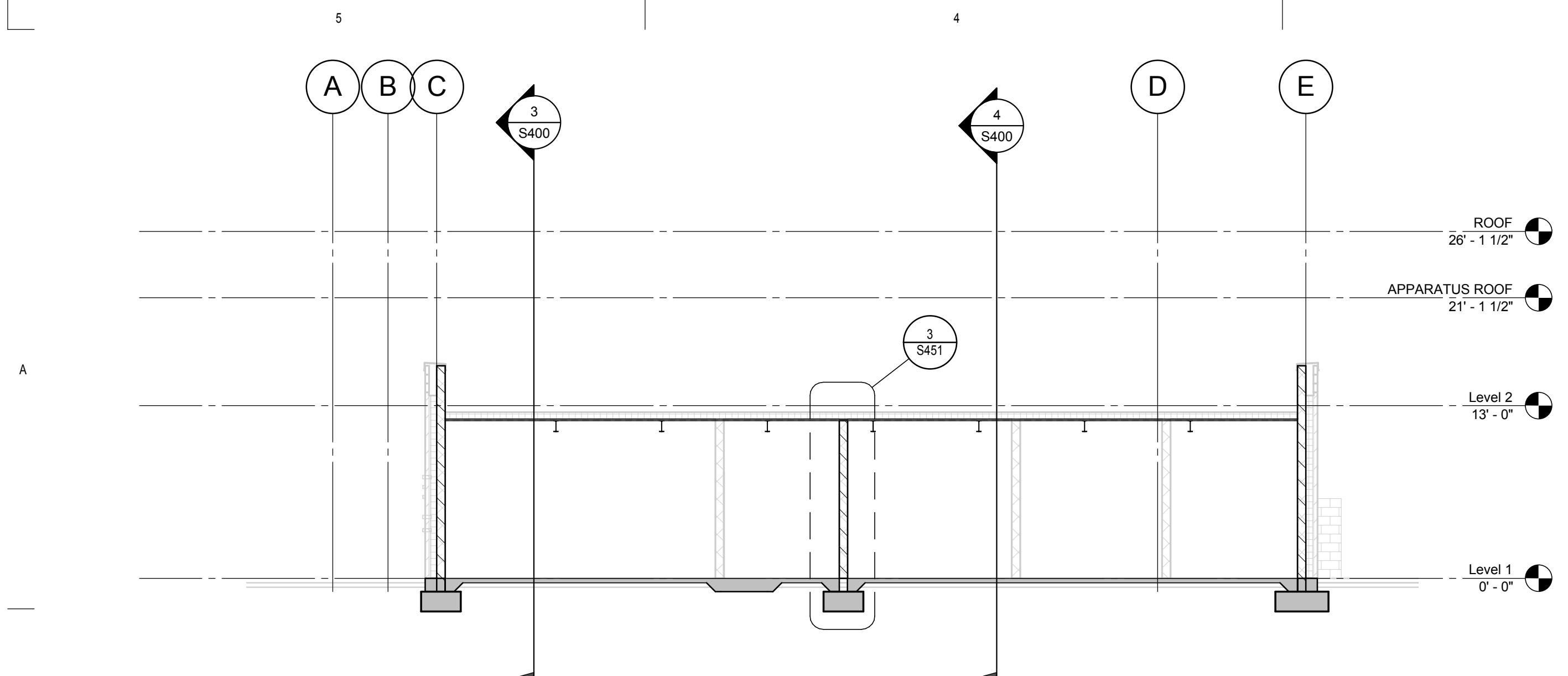
MARK	DATE	DESCRIPTION

PROJECT PHASE	75% CD
PROJECT NUMBER	114747.01
PROJECT MANAGER	J. Chaffield
PROJECT ARCHITECT	J. Chaffield
DESIGN	J. Chaffield
DRAWN BY	Author

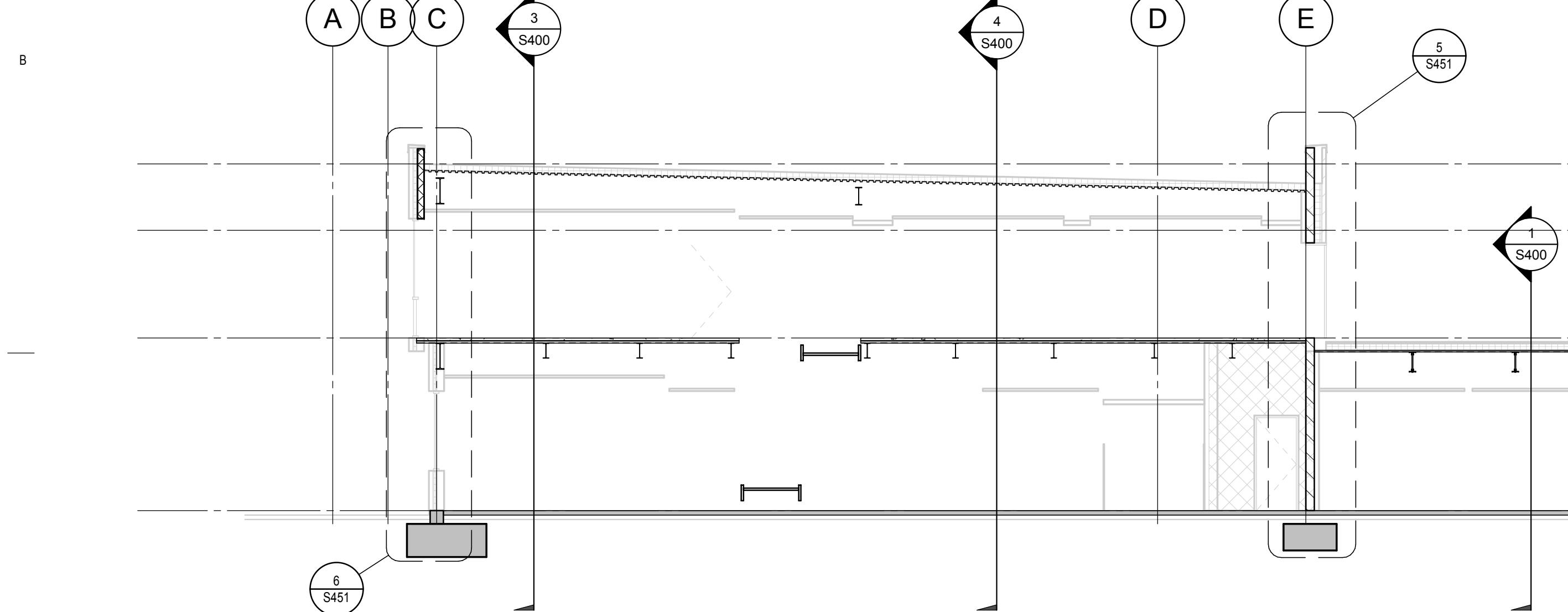
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BUILDING SECTIONS

SHEET NUMBER:
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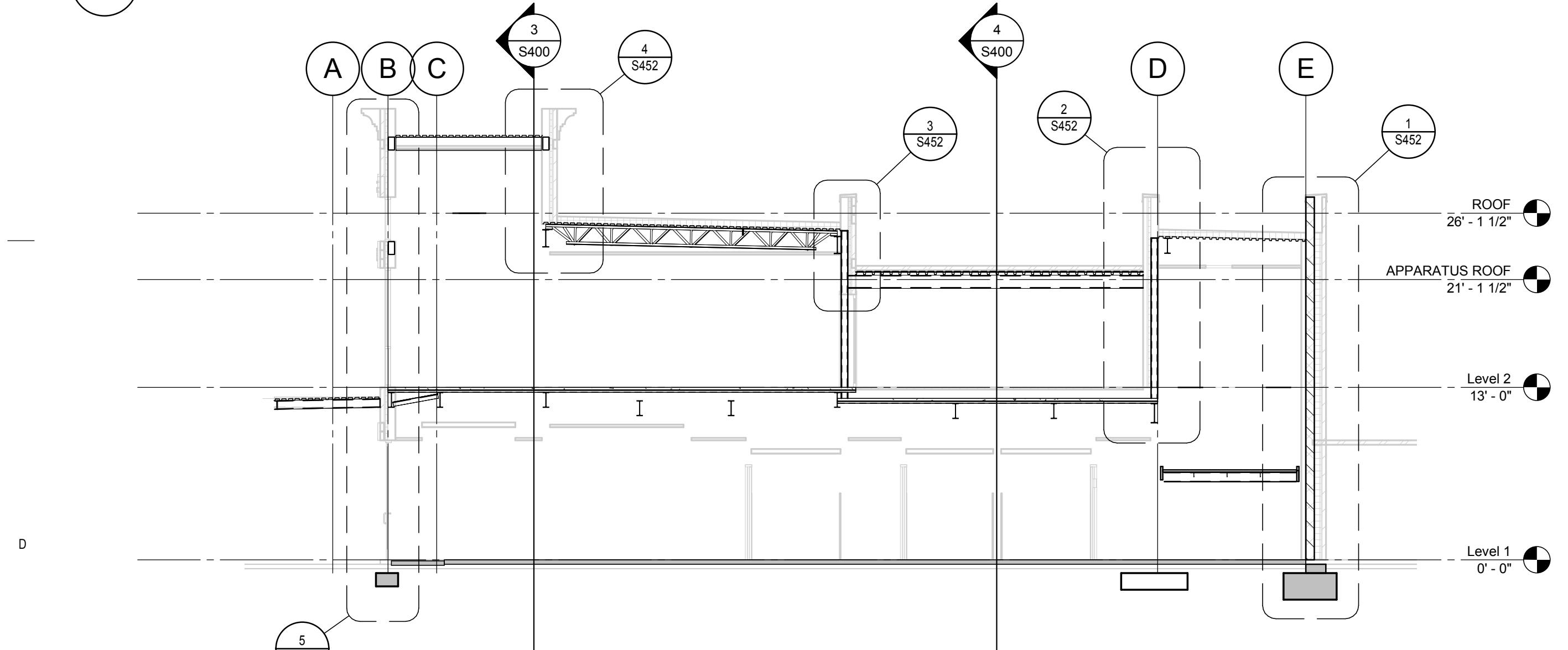
S401

**1 BUILDING SECTION**

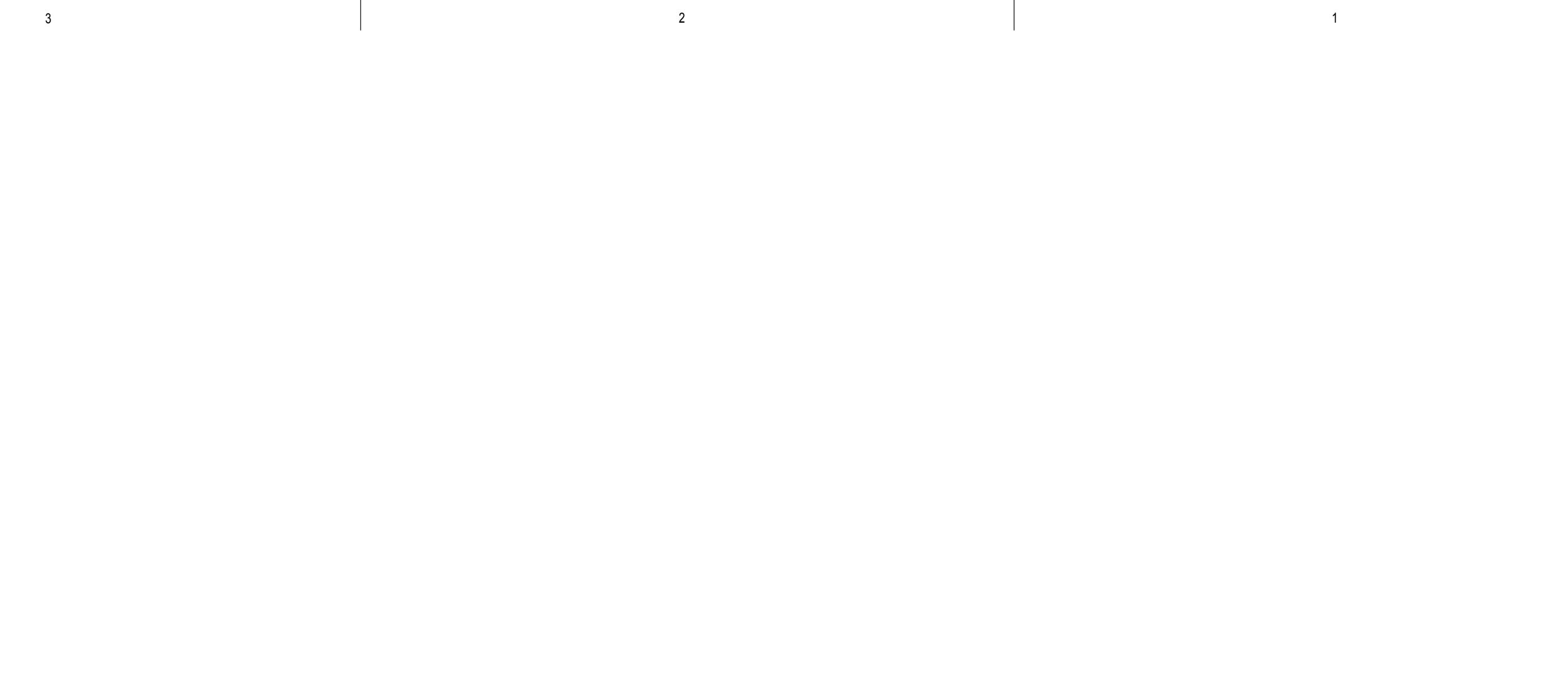
SCALE : 1/8" = 1'-0"

**2 BUILDING SECTION**

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

**4 BUILDING SECTION**

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

**3 BUILDING SECTION**

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

5

4

3

2

1

ARCHITECT:

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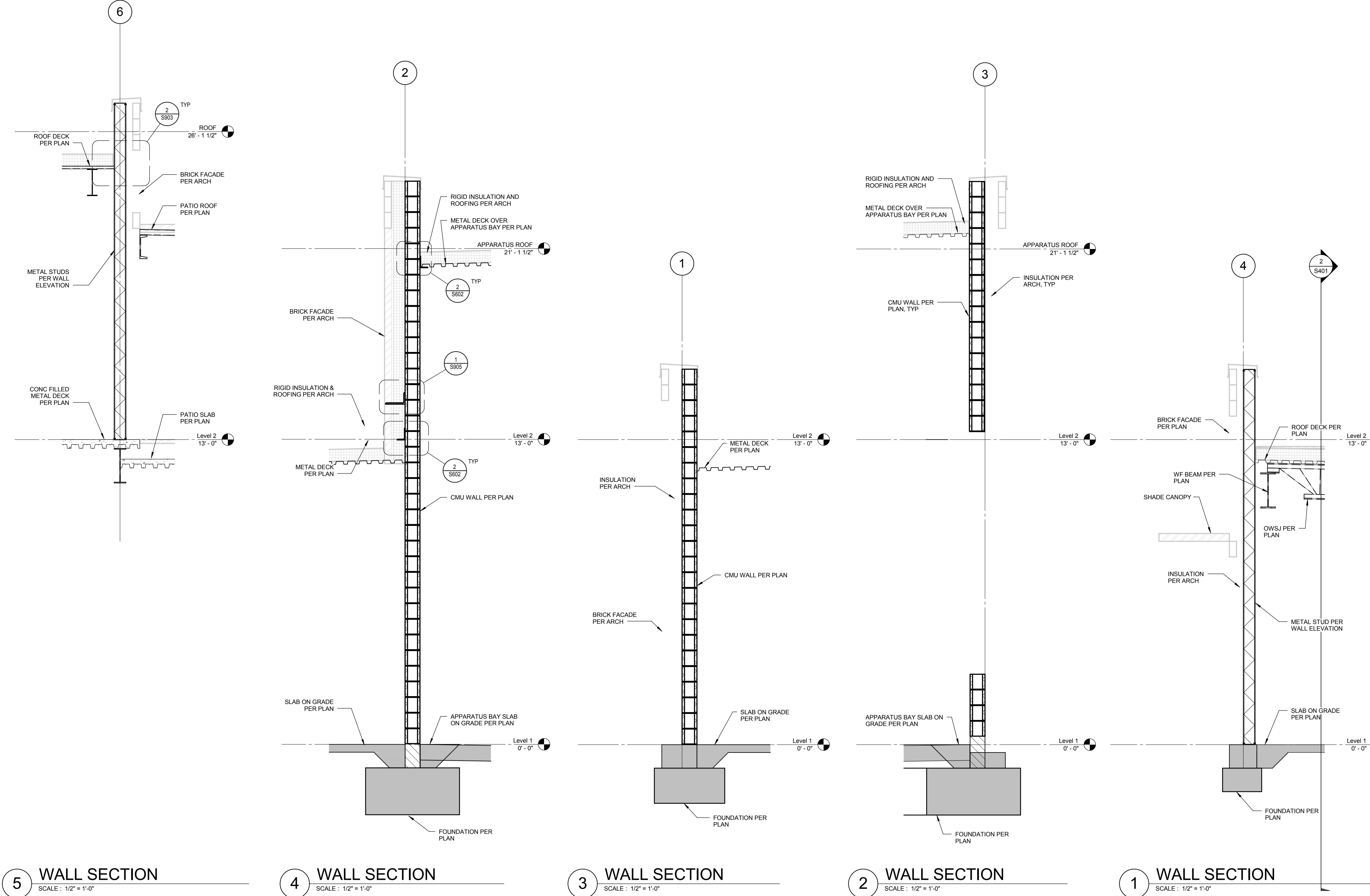
SHEET NAME:

WALL SECTIONS

SHEET NUMBER:

S450

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PROJECT MANAGER J. Chaffield

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DESIGN J. Chaffield

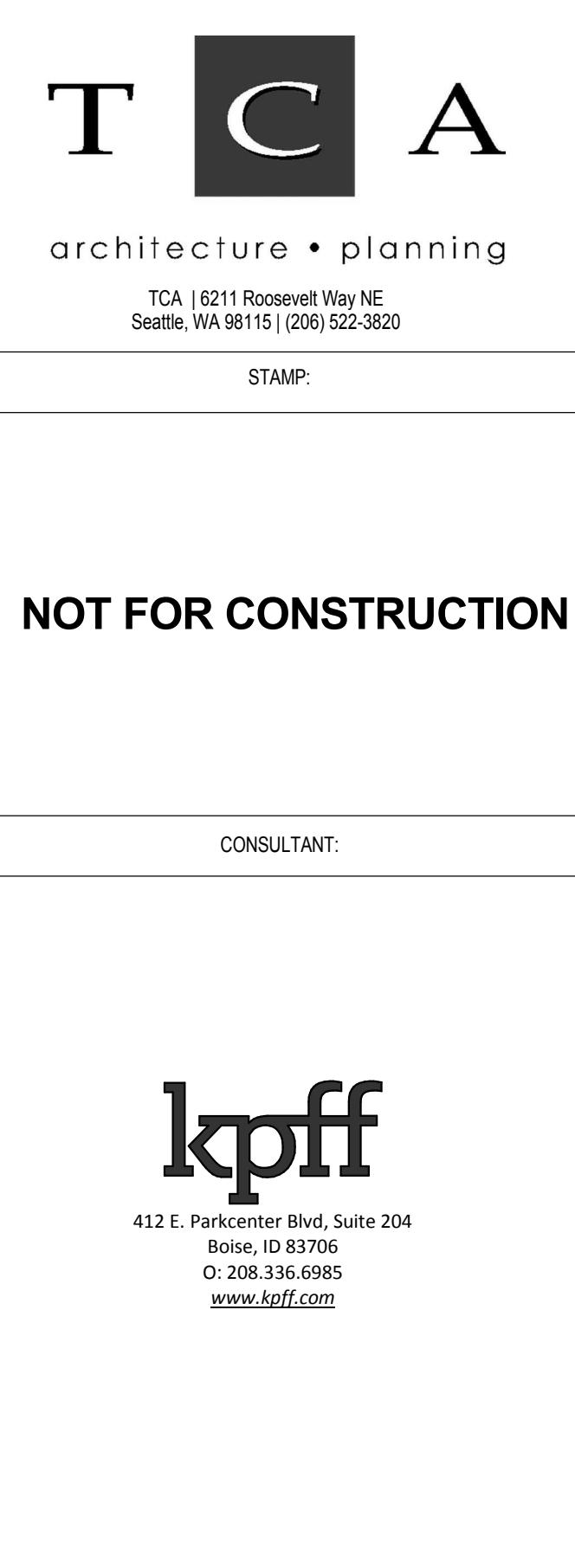
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SHEET NAME:

WALL SECTIONS

S452

11.09.15



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"
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"

4 WALL SECTION

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

5 WALL SECTION

5 WALL SECTION

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

2 WALL SECTION

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

3 WALL SECTION

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

1 WALL SECTION

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

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City of Boise Fire Station 4

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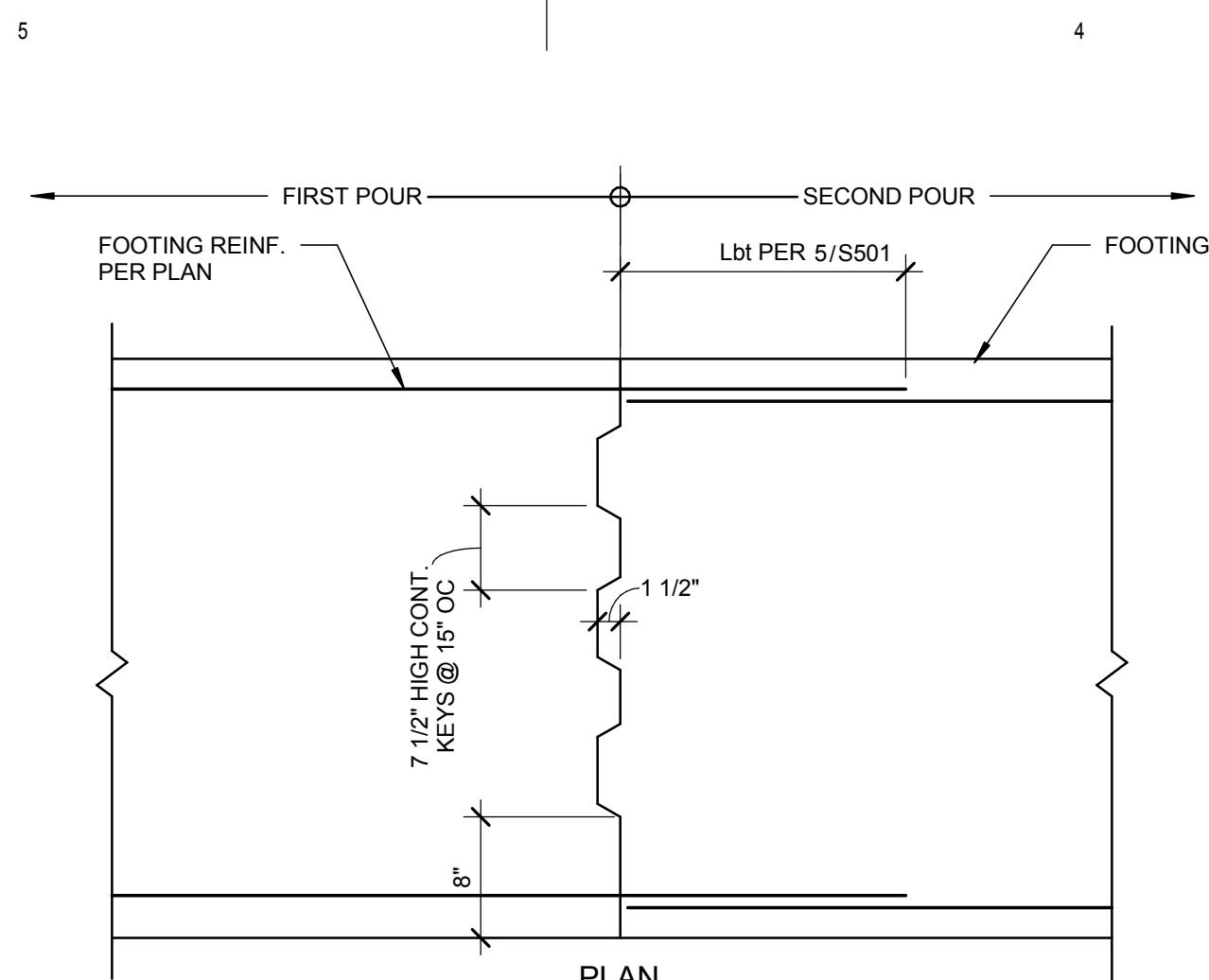
PROJECT NUMBER	114747.01
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	Author

SHEET NAME:

TYPICAL CONCRETE DETAILS

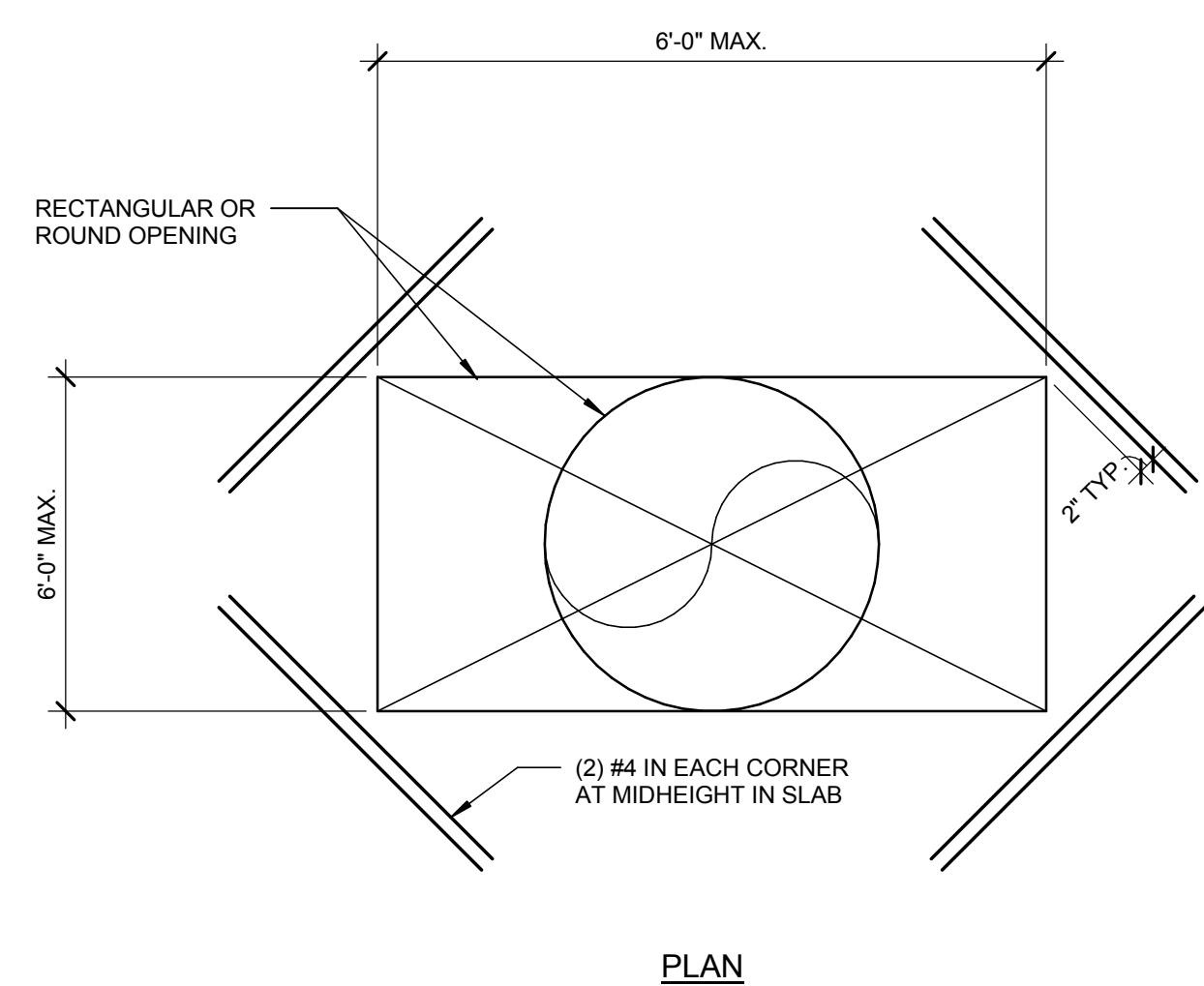
SHEET NUMBER:

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6 CONT FOOTING CONSTRUCTION JOINT

SCALE : 1" = 1'-0"

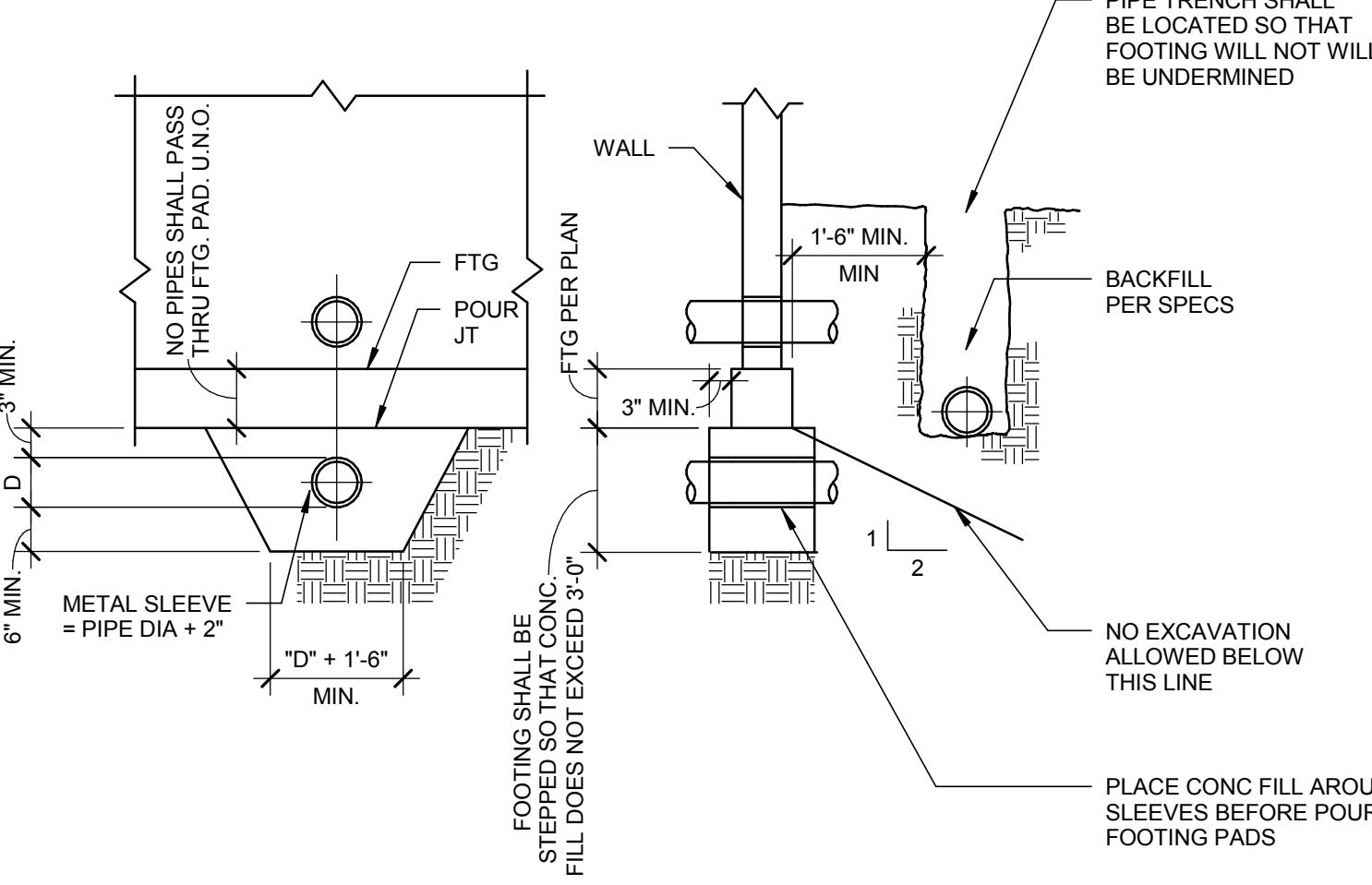


PLAN

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

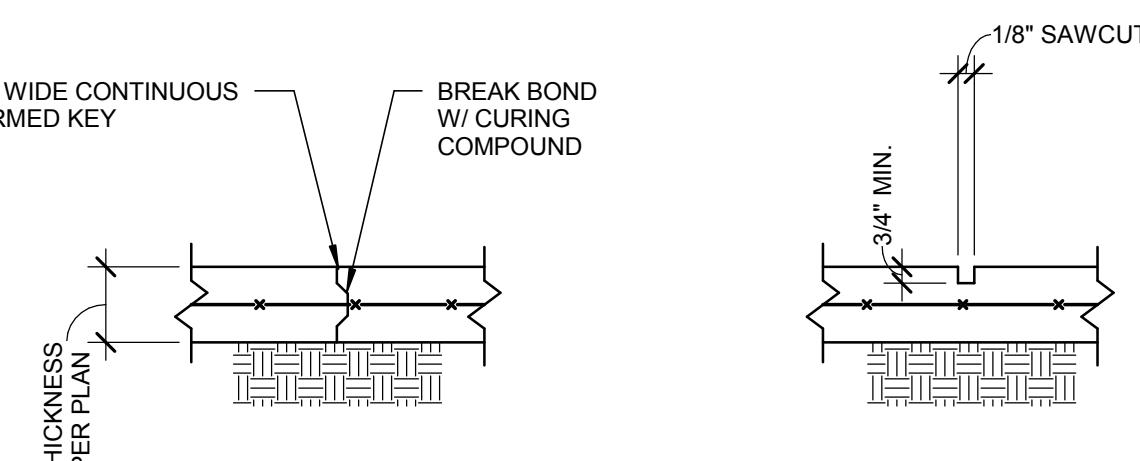
7 OPENING IN SLAB-ON-GRADE

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

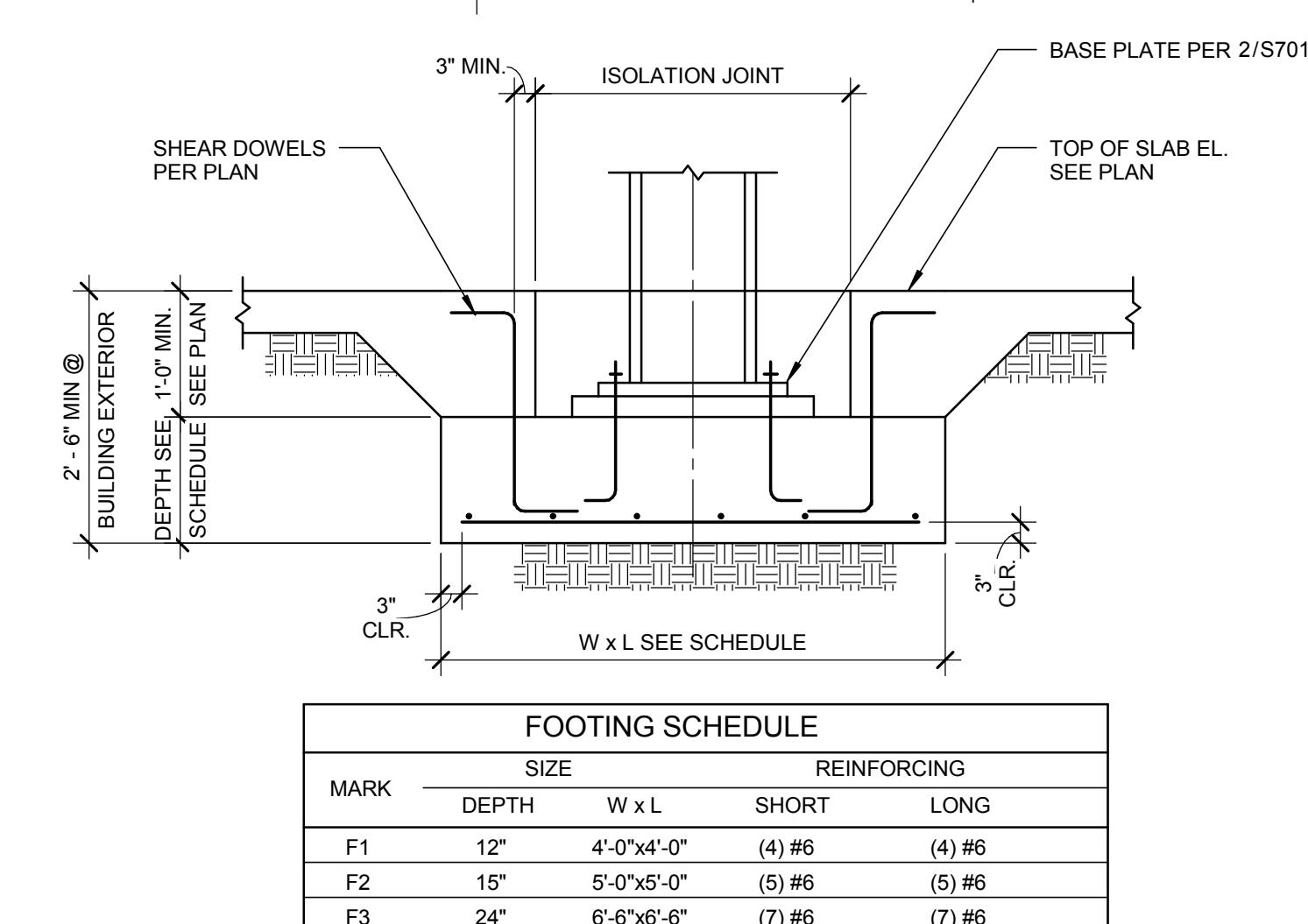
Size	Ld	Ldt	Lb	Lbt	Ldh
#4	19	25	25	32	9
#5	24	31	31	40	12
#6	28	37	37	48	14
#7	42	54	54	70	17
#8	47	62	62	80	19
#9	54	70	70	90	21
#10	60	78	78	102	24
#11	67	87	87	113	27

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

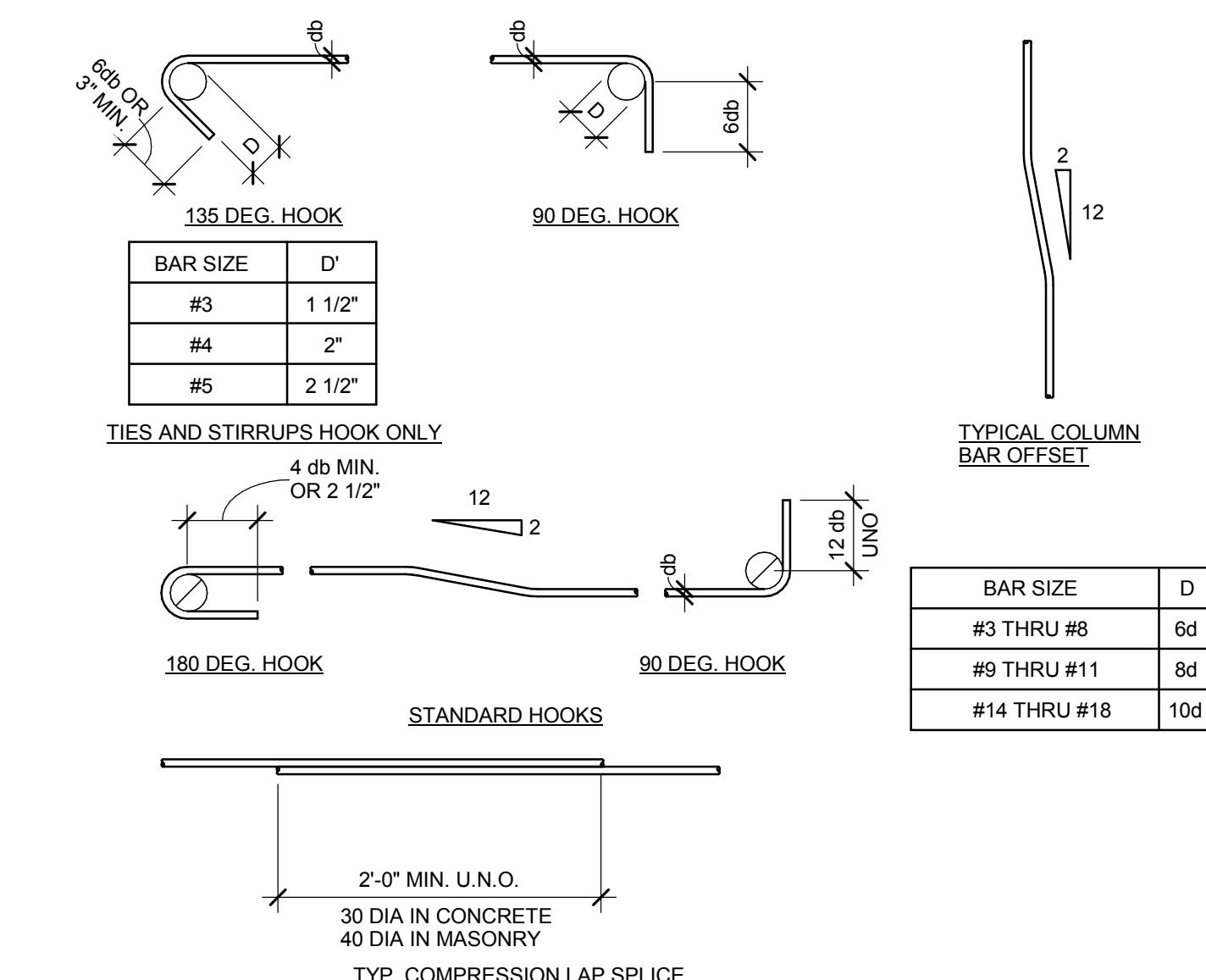
5 DEVELOPEMENT AND SPLICE LENGTH SCHEDULE

SCALE : 1" = 1'-0"



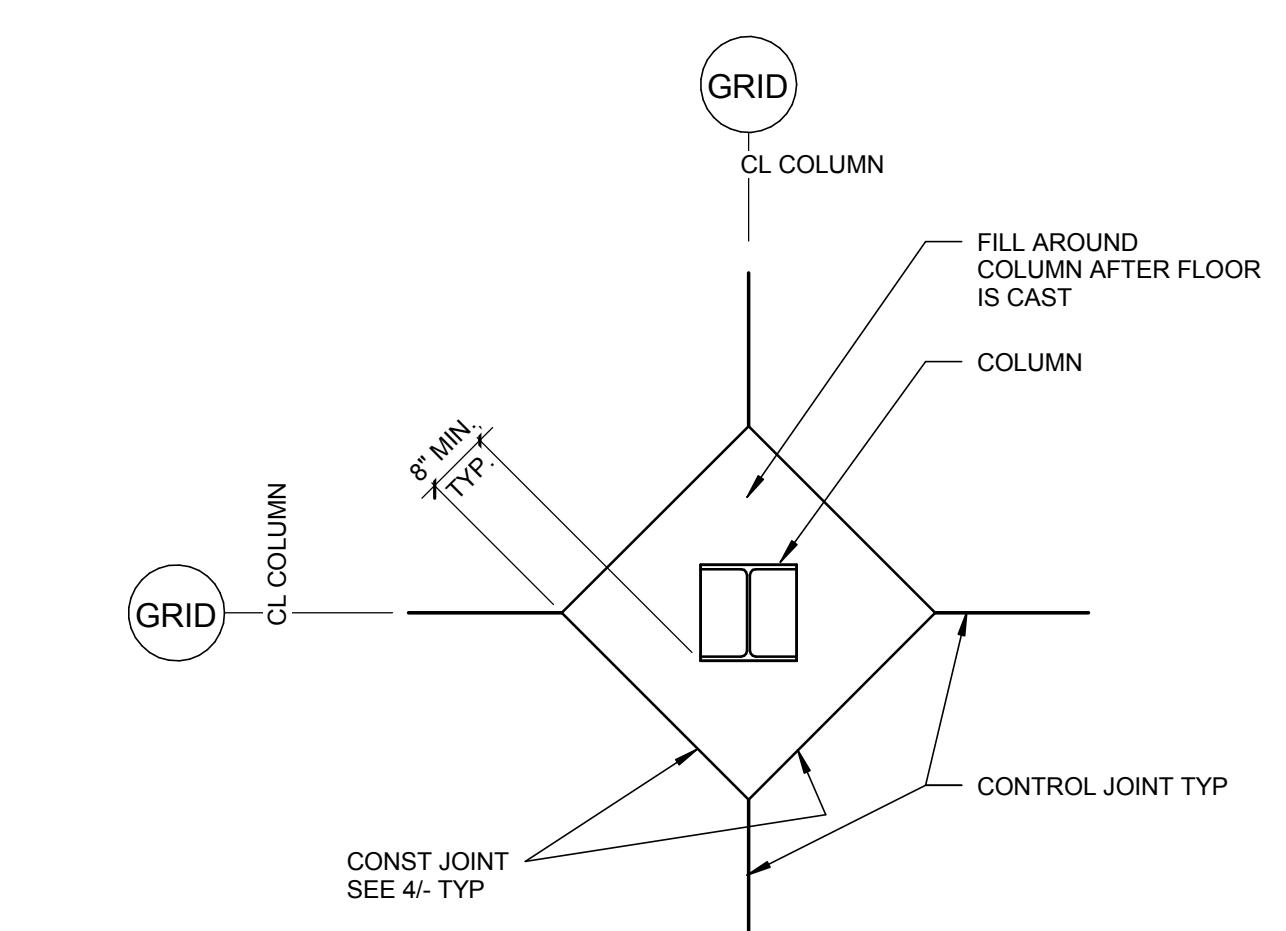
1 TYPICAL PAD FOOTING DETAIL

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



2 REINFORCING BAR BENDING DETAIL

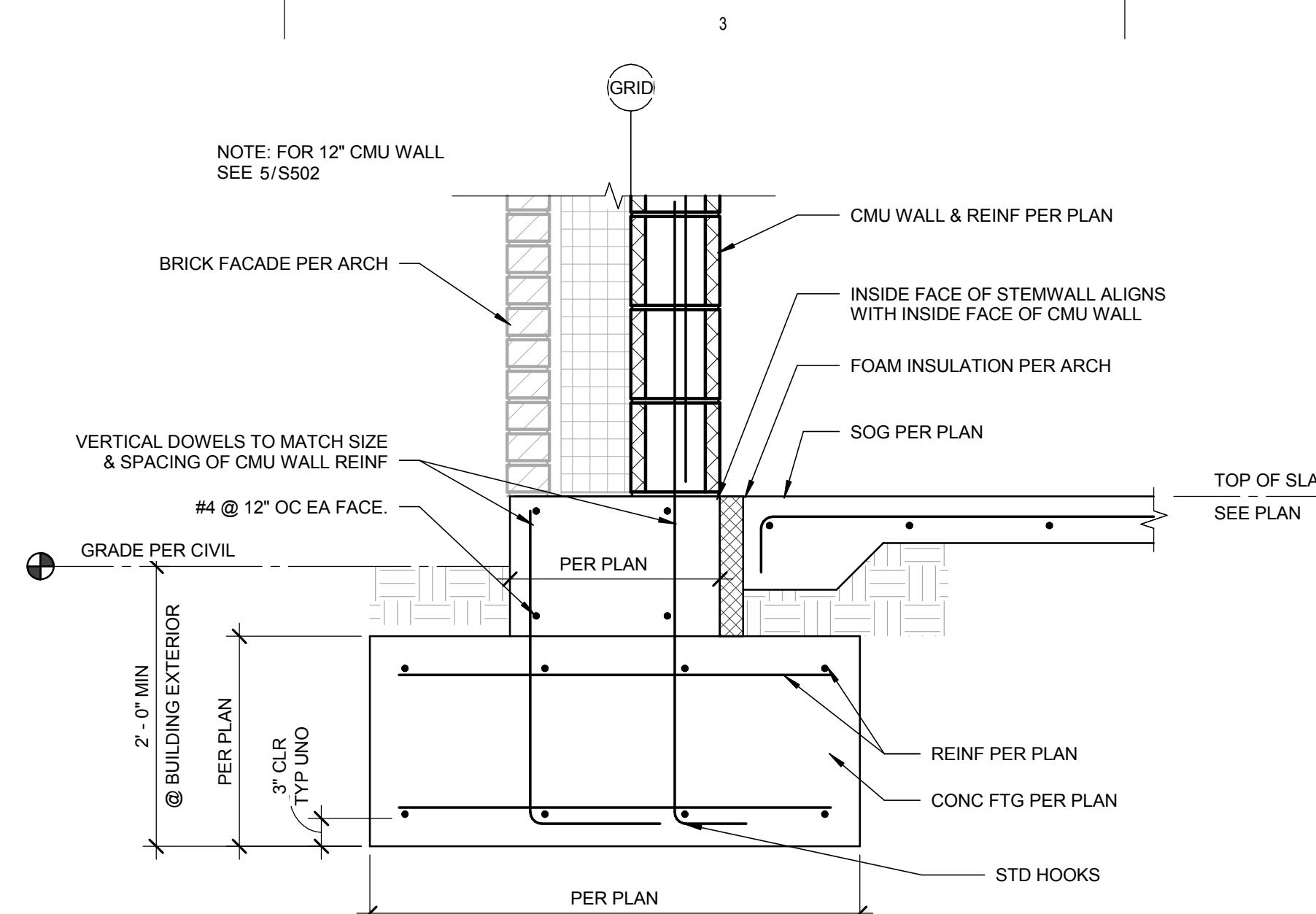
SCALE : 1" = 1'-0"



3 ISOLATION AT COLUMN AND SLAB-ON-GRADE

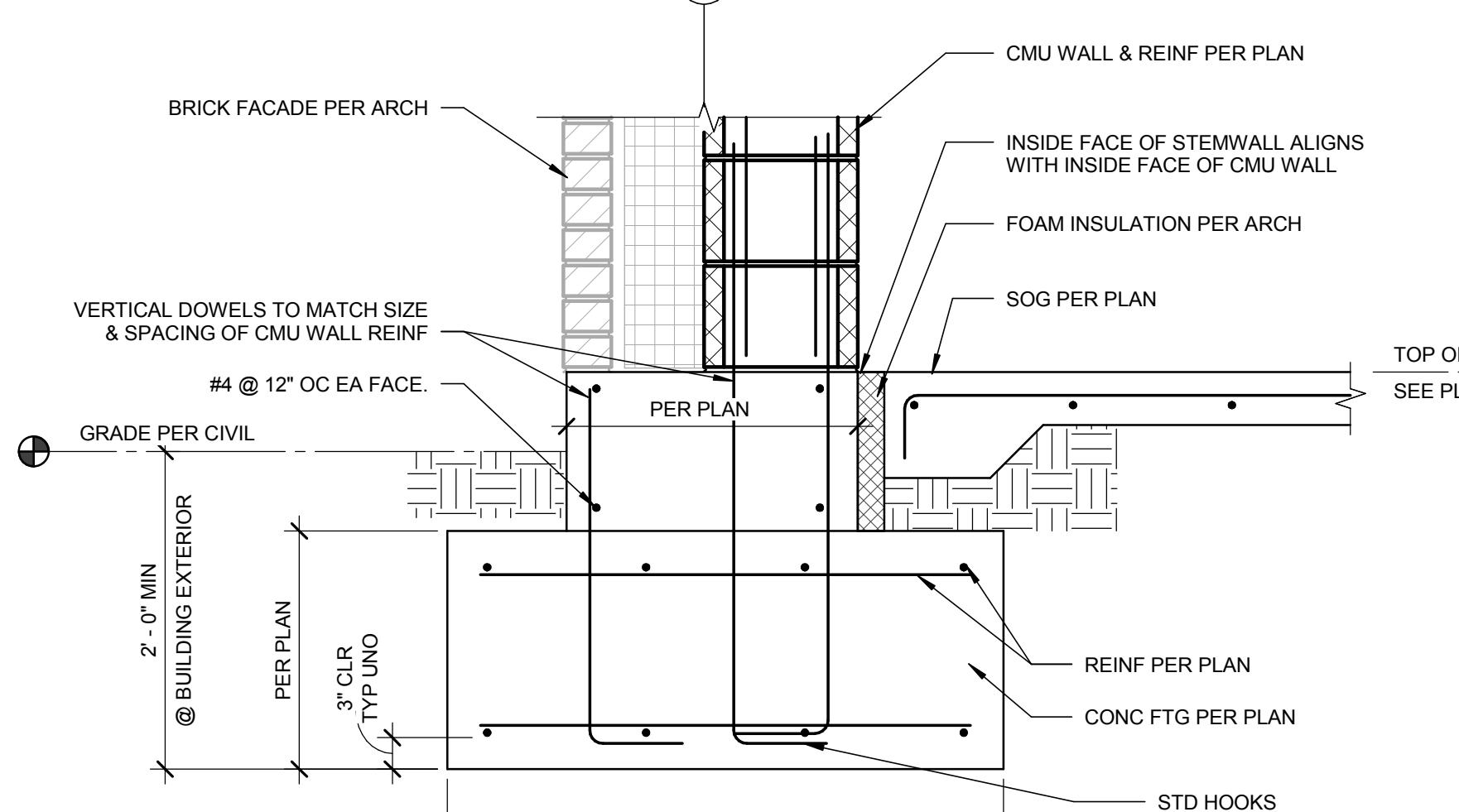
SCALE : 1" = 1'-0"

S501



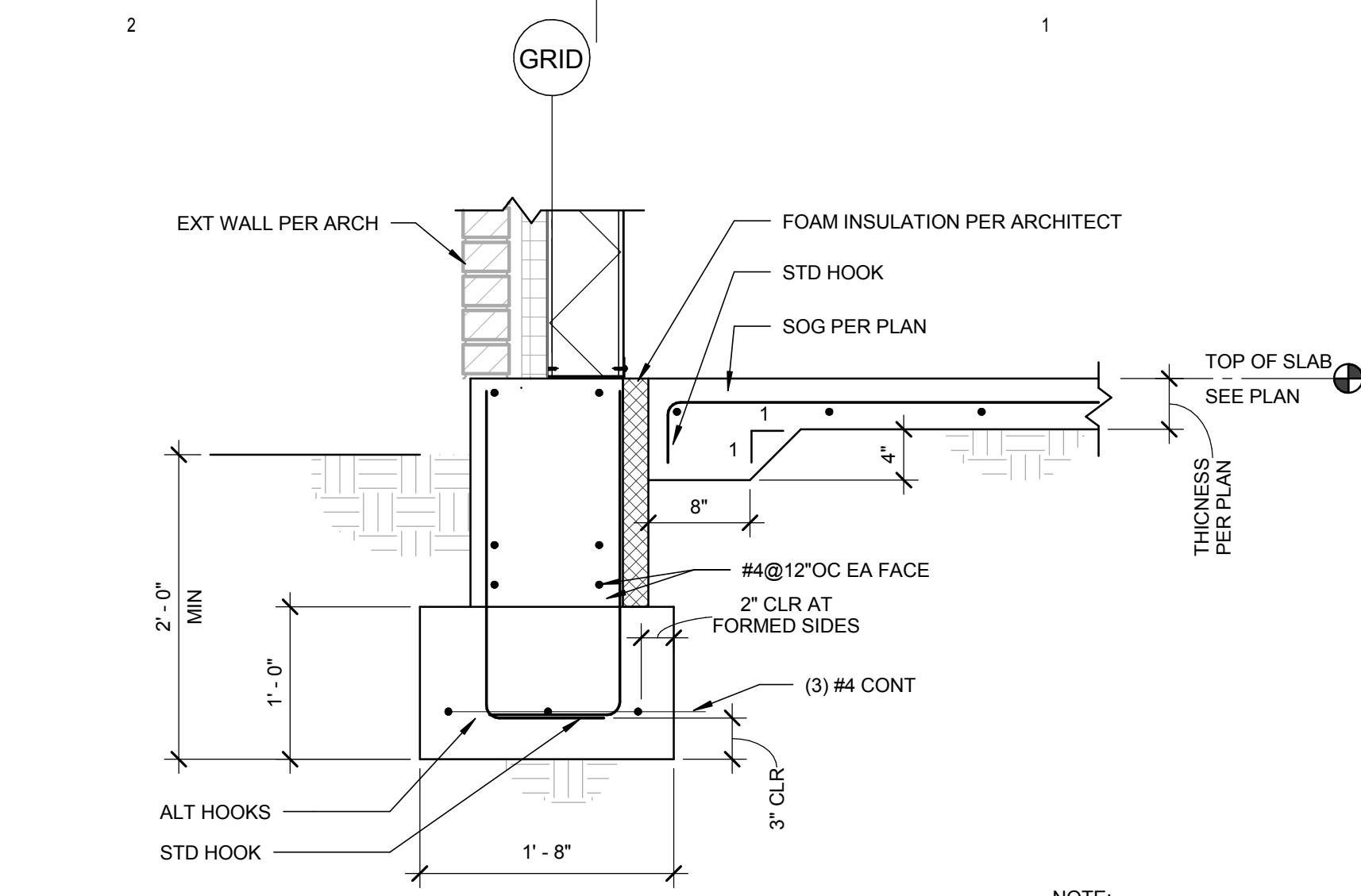
(4) FOOTING AT 8" CMU WALL

SCALE : 1" = 1'-0"



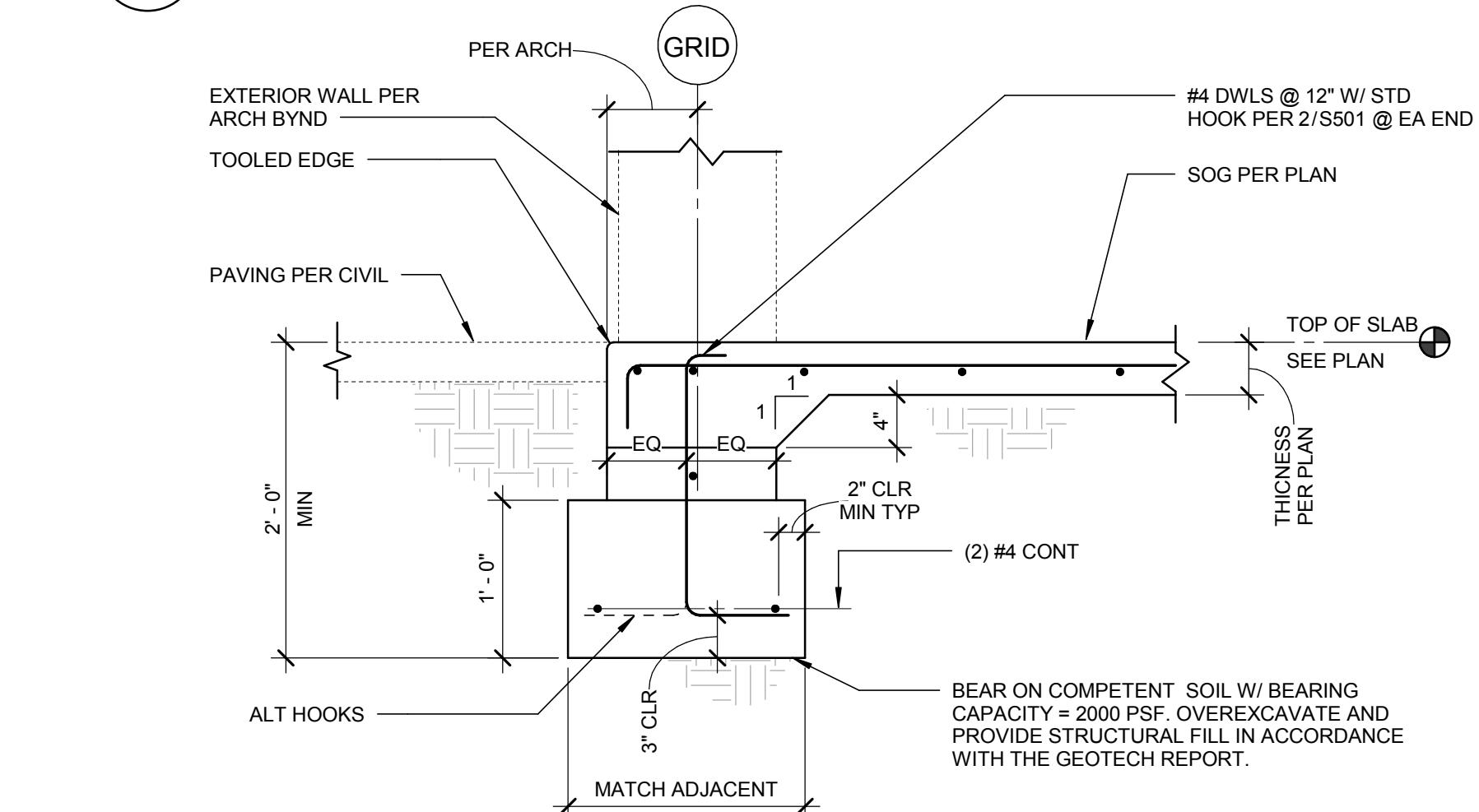
(5) FOOTING AT 12" CMU WALL

SCALE : 1" = 1'-0"



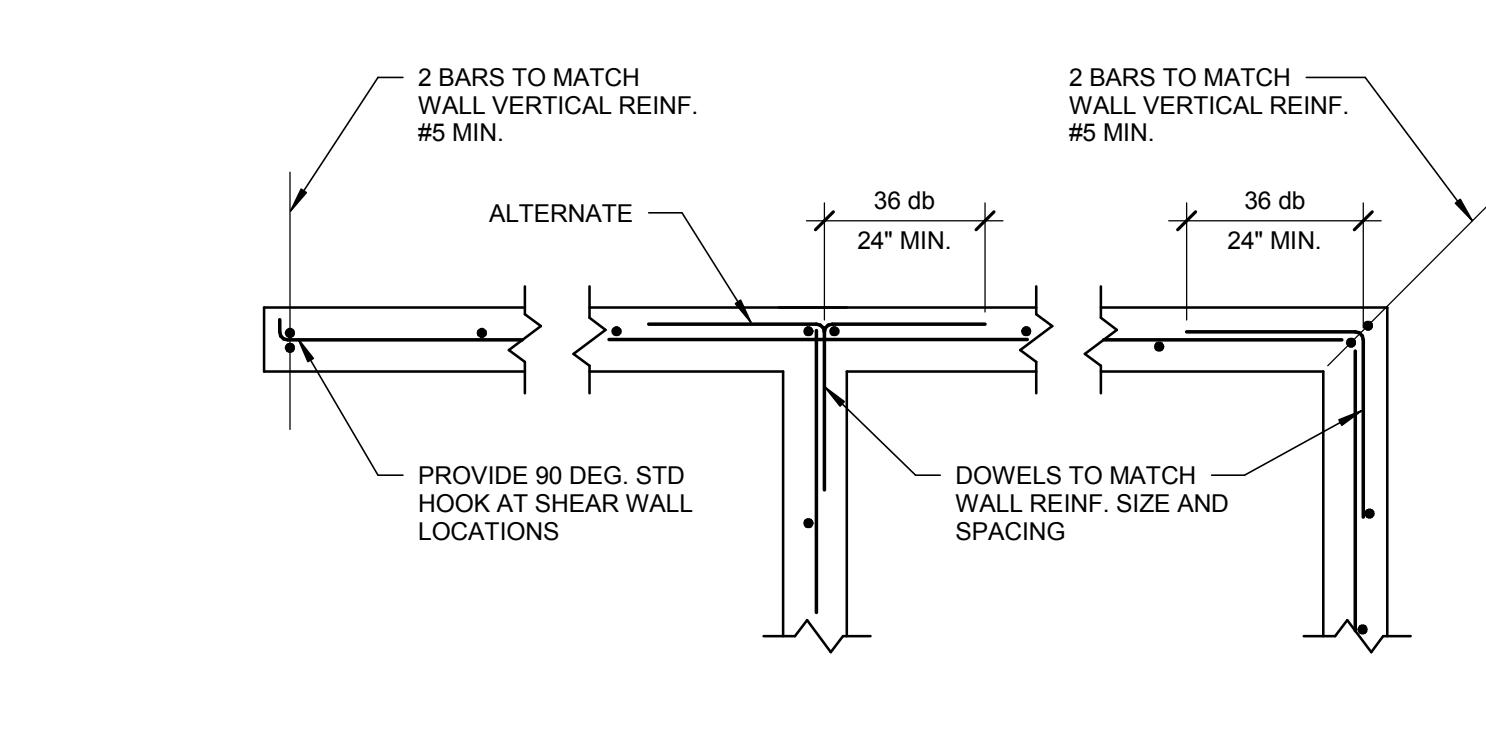
(1) TYPICAL EDGE-OF-SLAB

SCALE : 1" = 1'-0"



(2) EDGE OF SLAB-ON-GRADE AT WALL OPENINGS

SCALE : 1" = 1'-0"



(6) WALL DETAILS/SINGL LAYER REINFORCING

SCALE : 1" = 1'-0"

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REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE: 75% CD

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DESIGN	J. Chaffield
DRAWN BY	Author

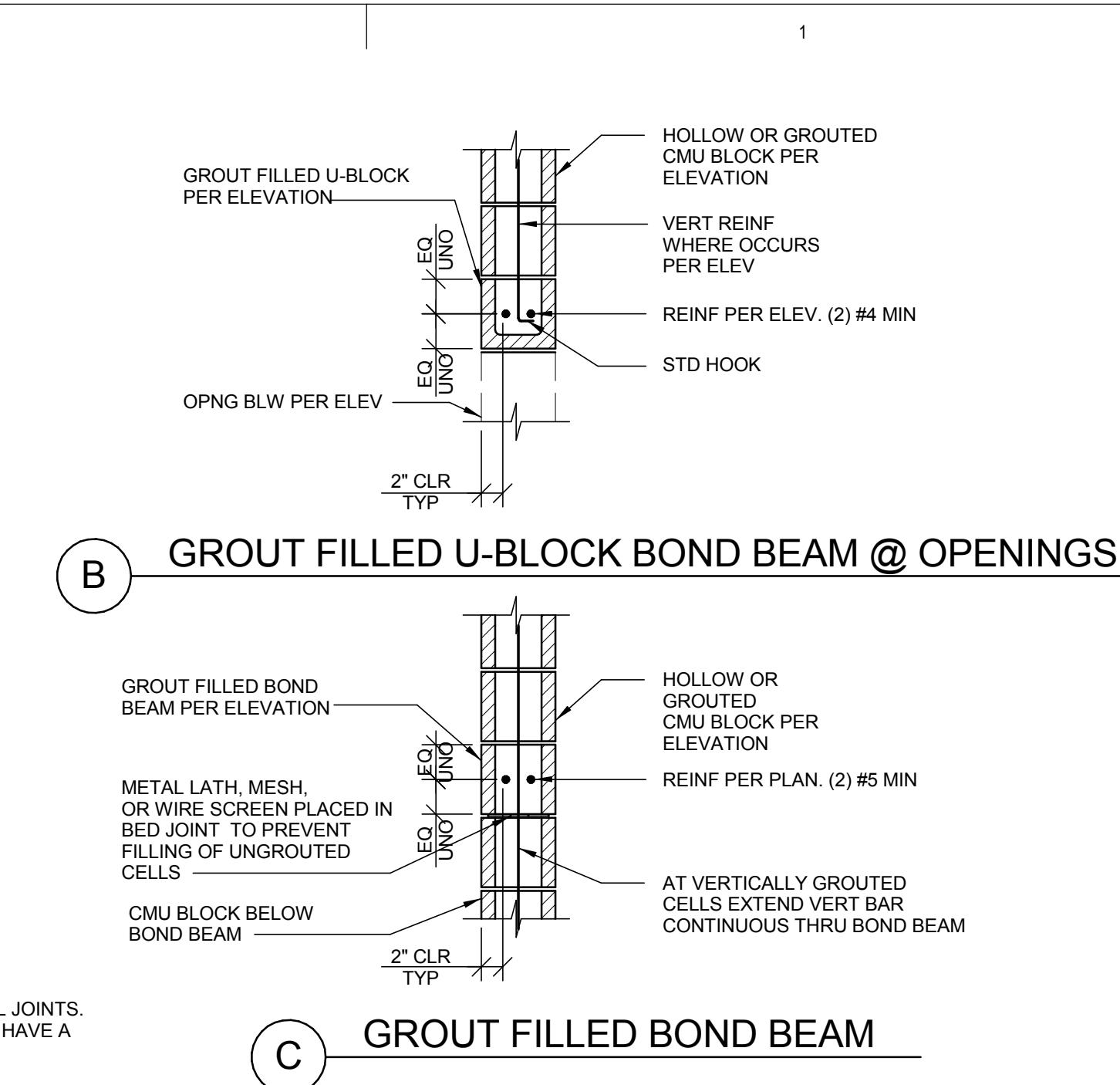
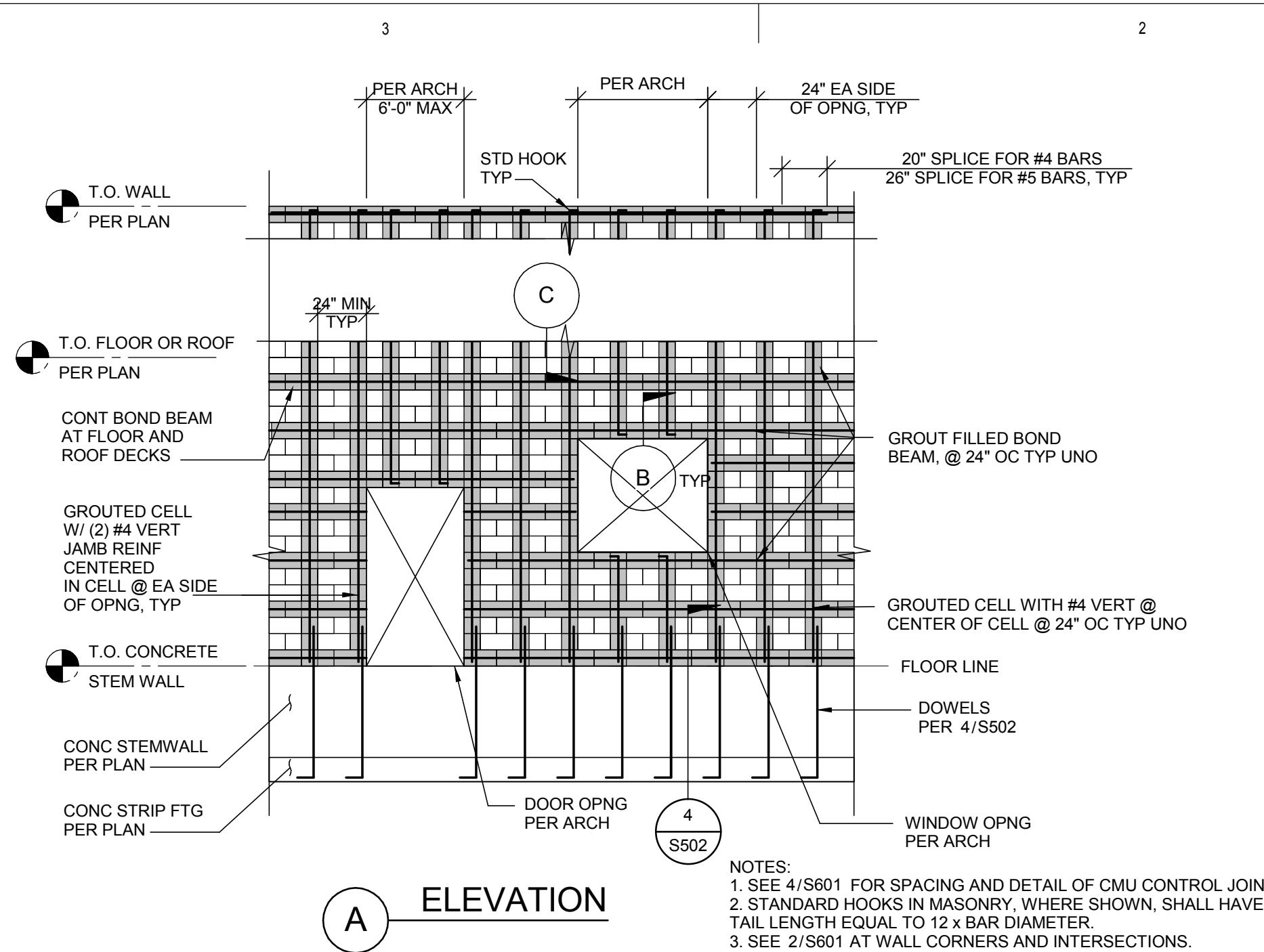
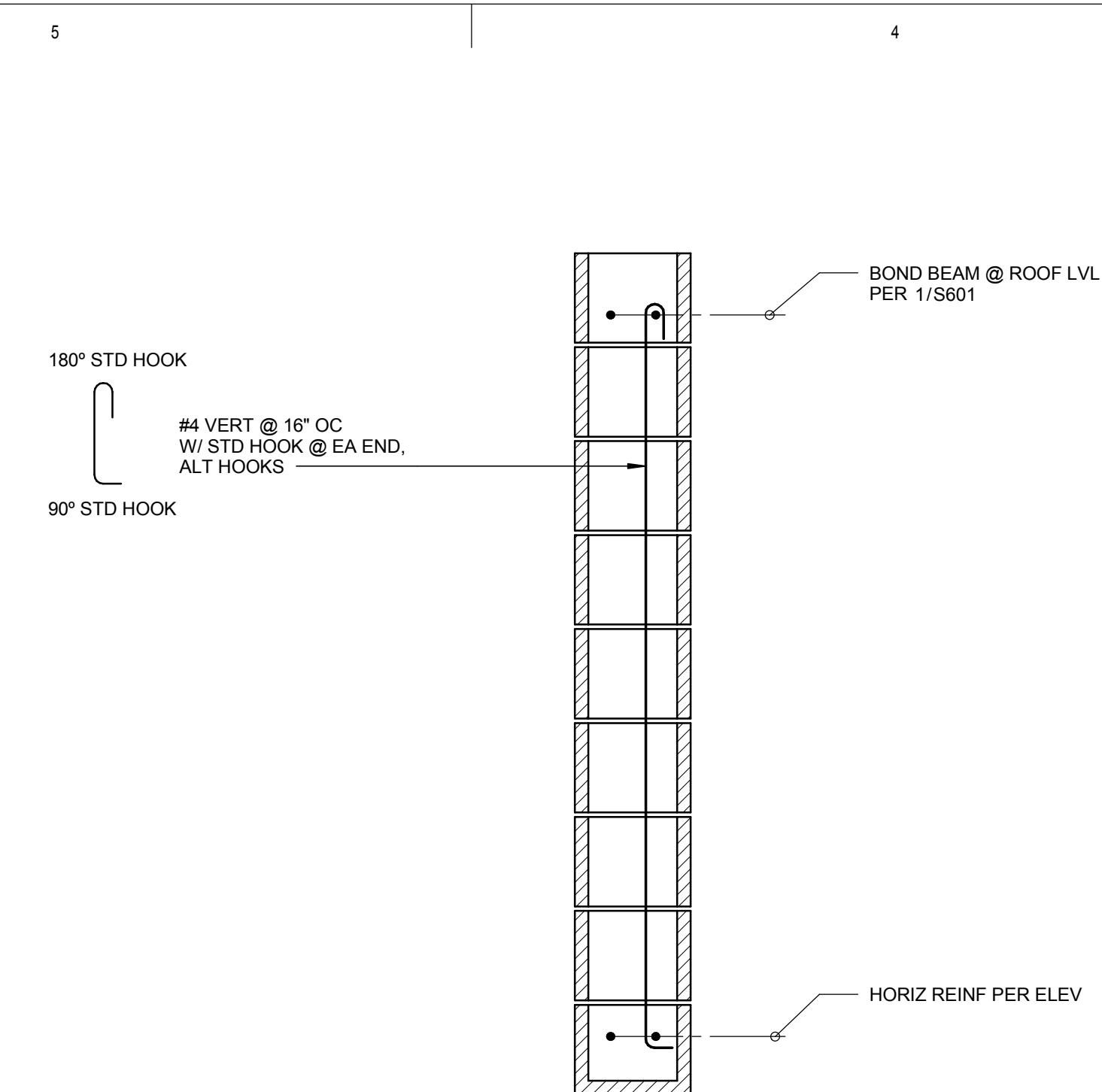
SHEET NAME:

TYPICAL MASONRY DETAILS

SHEET NUMBER:

S601

11.09.15



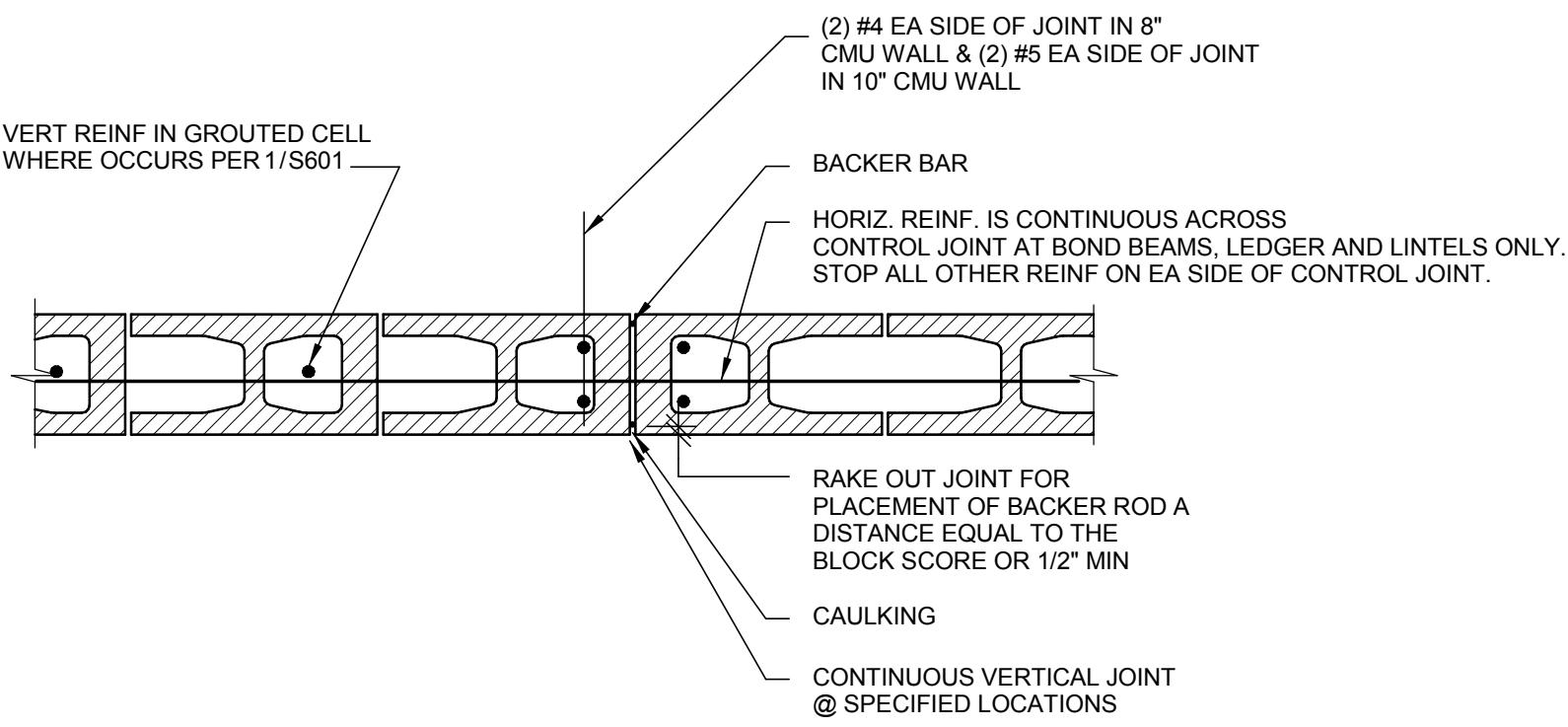
C GROUT FILLED BOND BEAM

5 CMU DEEP BEAM

SCALE: 1" = 1'-0"

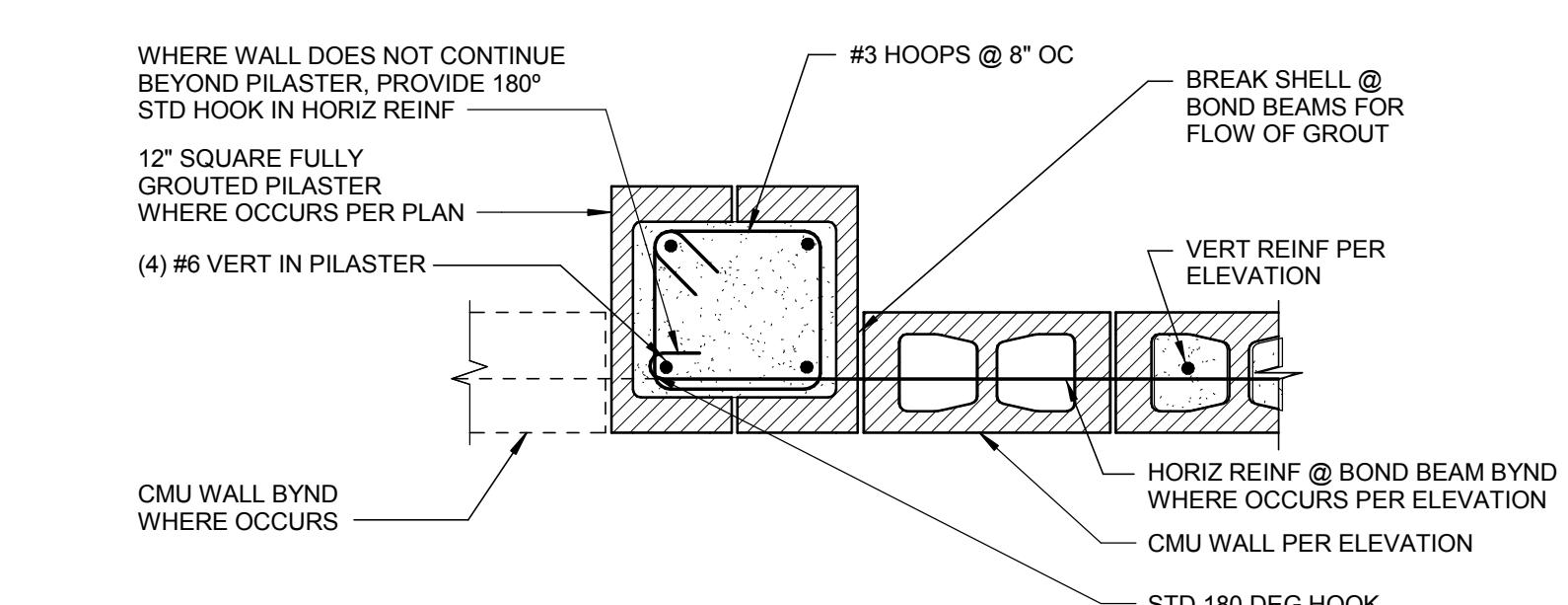
1 ELEVATION

3/16" = 1'-0"



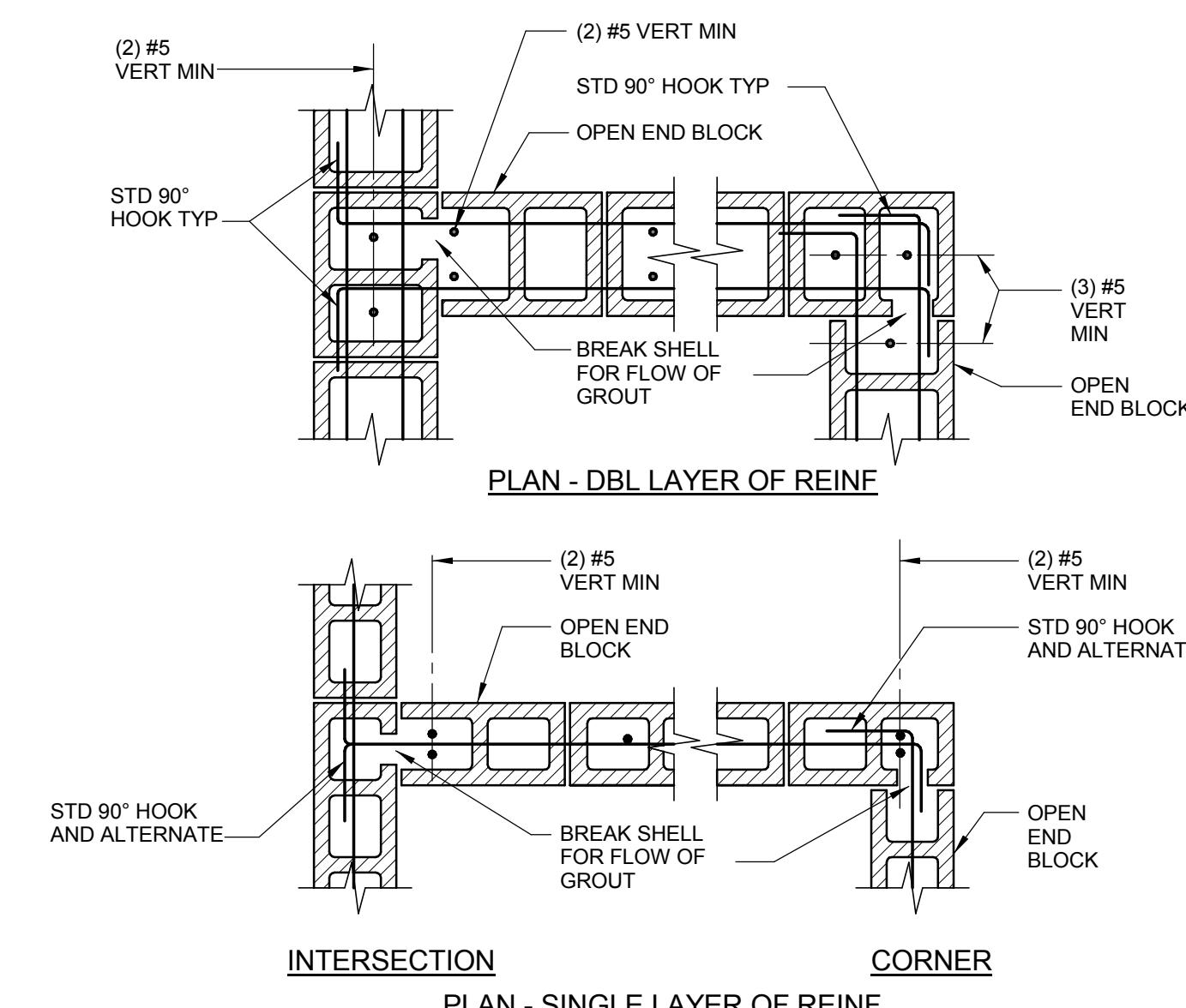
4 TYPICAL CMU CONTROL JOINTS

SCALE: 1" = 1'-0"



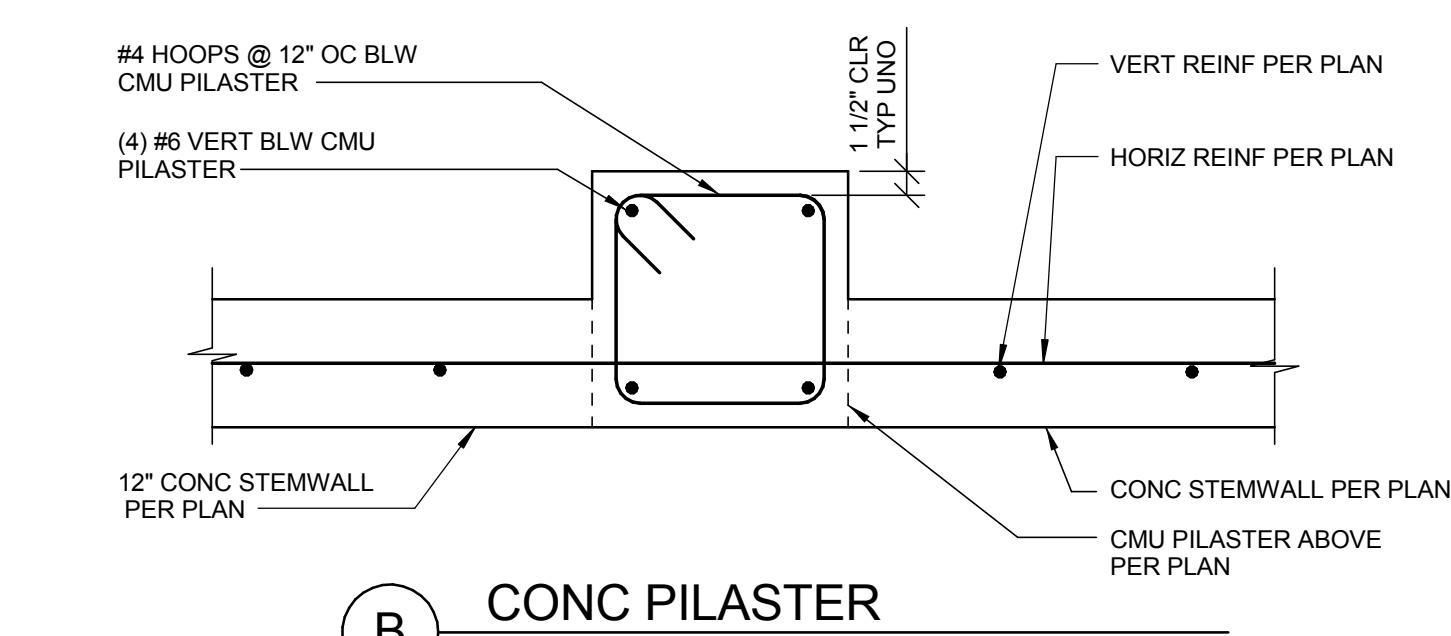
3 PILASTER DETAIL

SCALE: 1" = 1'-0"



2 CMU WALL INTERSECTION AND CORNER DETAIL

SCALE: 1" = 1'-0"



B CONC PILASTER

5

4

3

2

1

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PROJECT PHASE:

75% CD

PROJECT NUMBER:

114747.01

PROJECT MANAGER:

J. Chaffield

PROJECT ARCHITECT:

J. Chaffield

DESIGN:

J. Chaffield

DRAWN BY:

AUTHOR

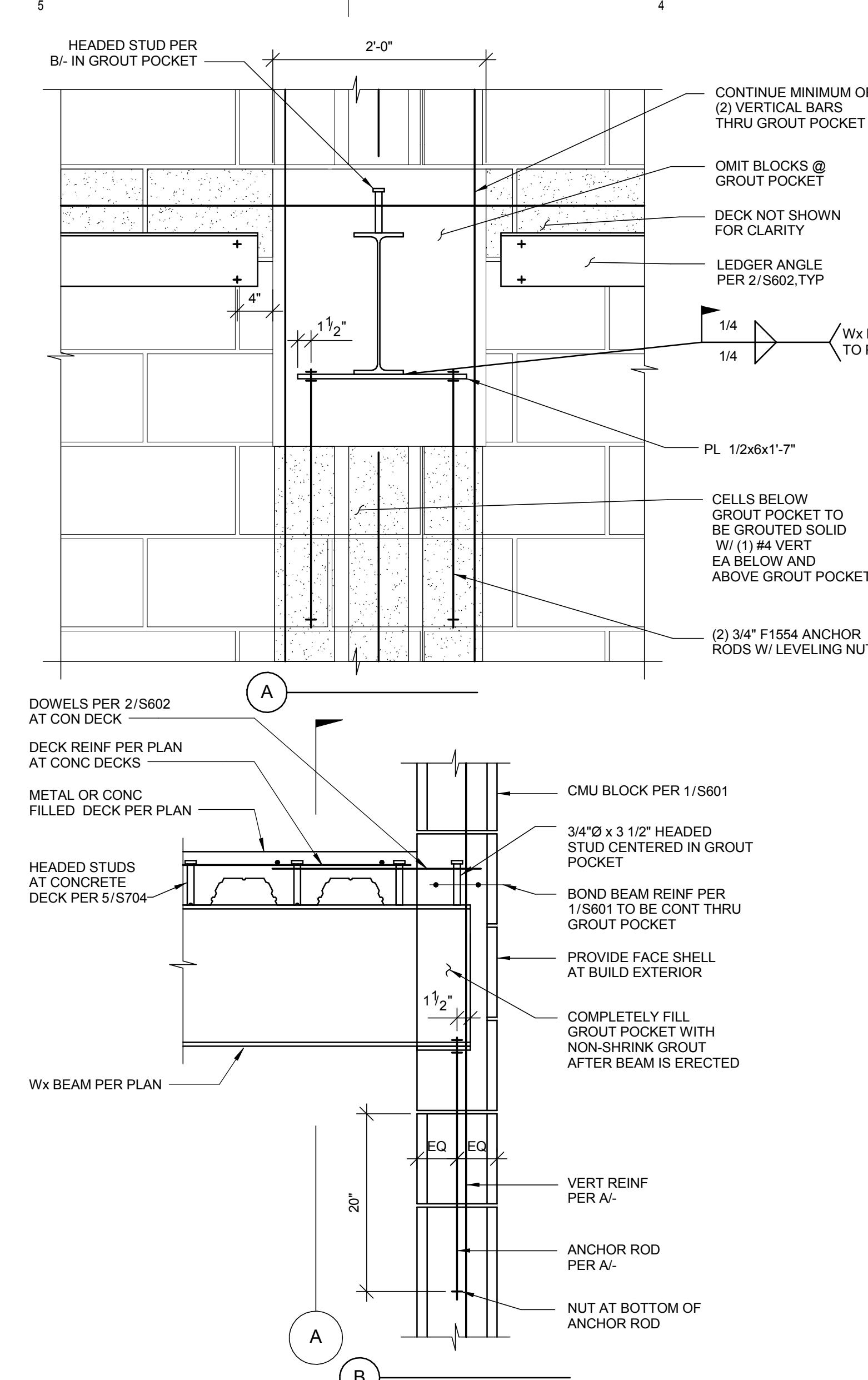
SHEET NAME:

TYPICAL MASONRY DETAILS

SHEET NUMBER:

S602

11.09.15

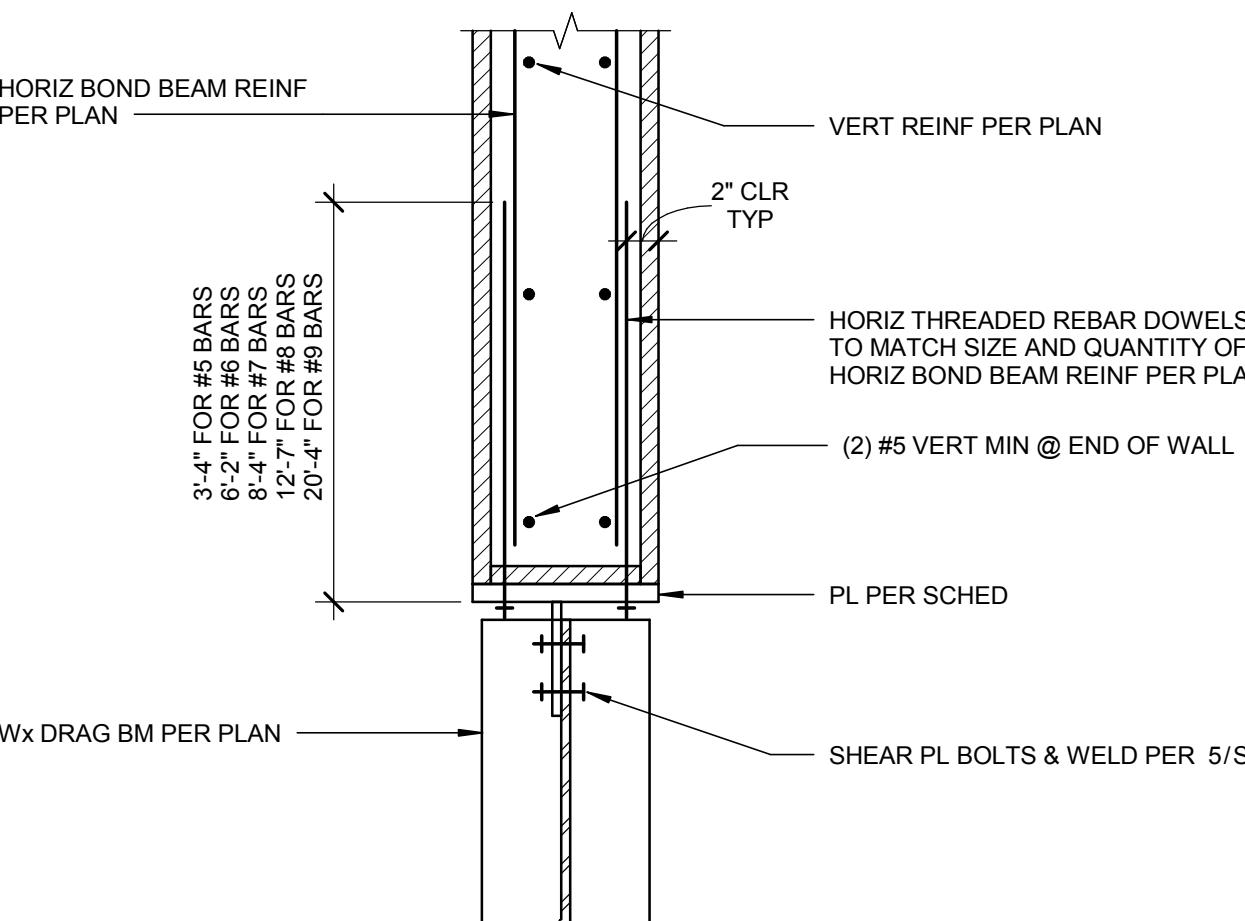


5 Wx BM TO CMU WALL GROUT POCKET DETAIL

SCALE : 1" = 1'-0"

3 OWSJ TO CMU WALL CONNECTION

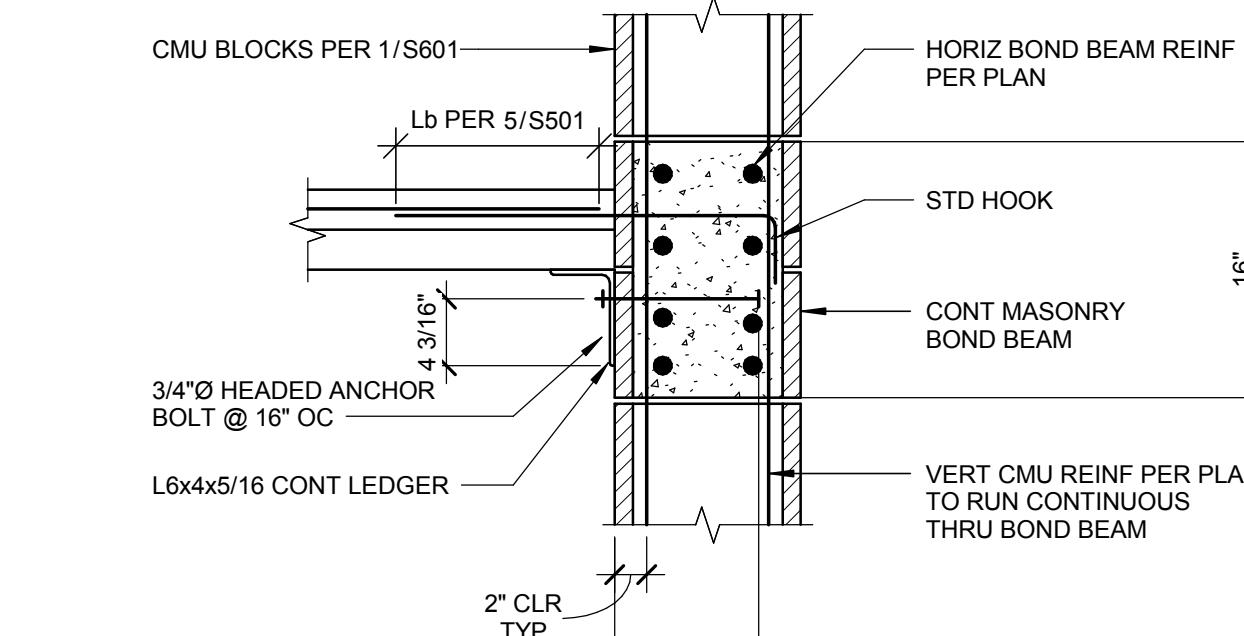
SCALE : 1" = 1'-0"



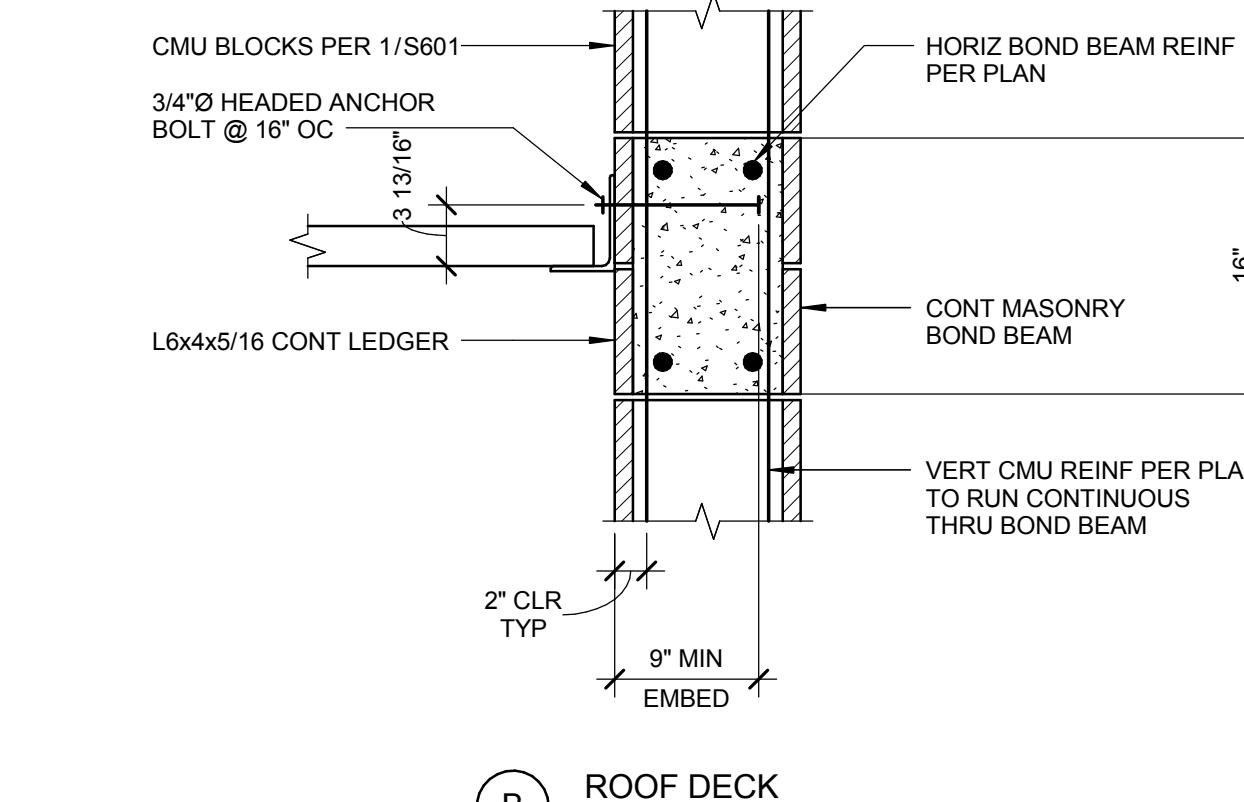
4 DRAG CONNECTION TO CMU WALL

SCALE : 1" = 1'-0"

HORIZ BOND BEAM REINF PER PLAN	PLATE SIZE PER PLAN	PLATE THICKNESS	PLATE DEPTH	PLATE WIDTH
#5	3/4"	8"	MATCH WALL WIDTH	
#7	1 1/2"	16"	MATCH WALL WIDTH	
#8	1 5/8"	16"	MATCH WALL WIDTH	
#9	2"	16"	MATCH WALL WIDTH	



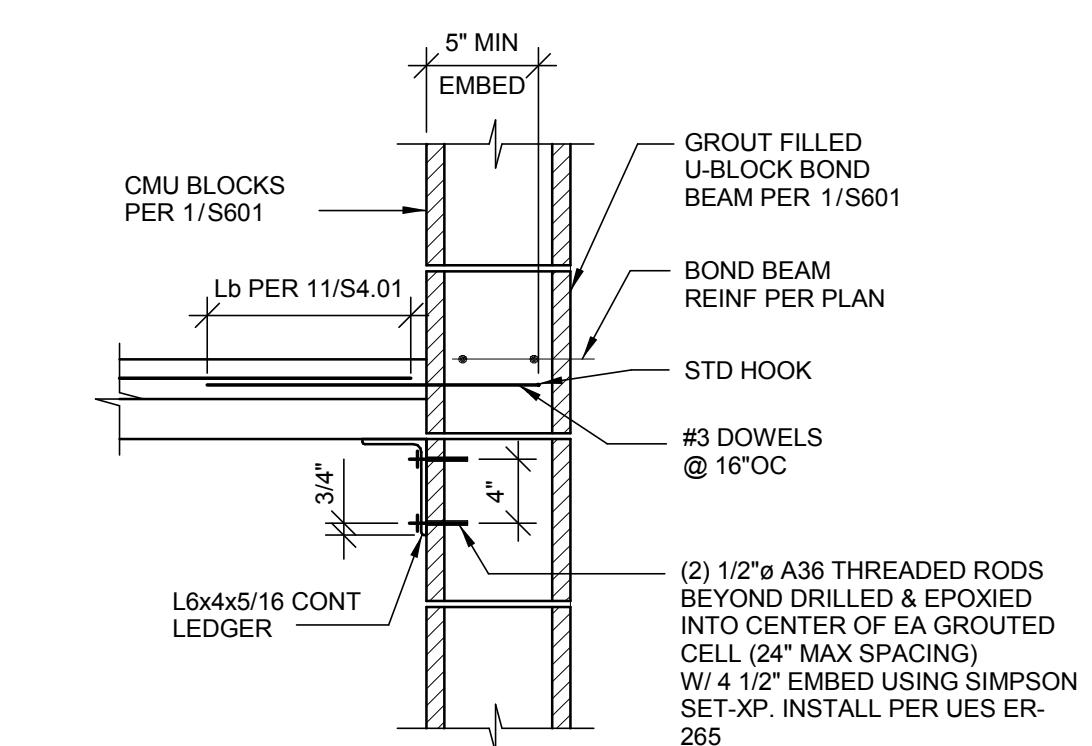
A CONCRETE DECK



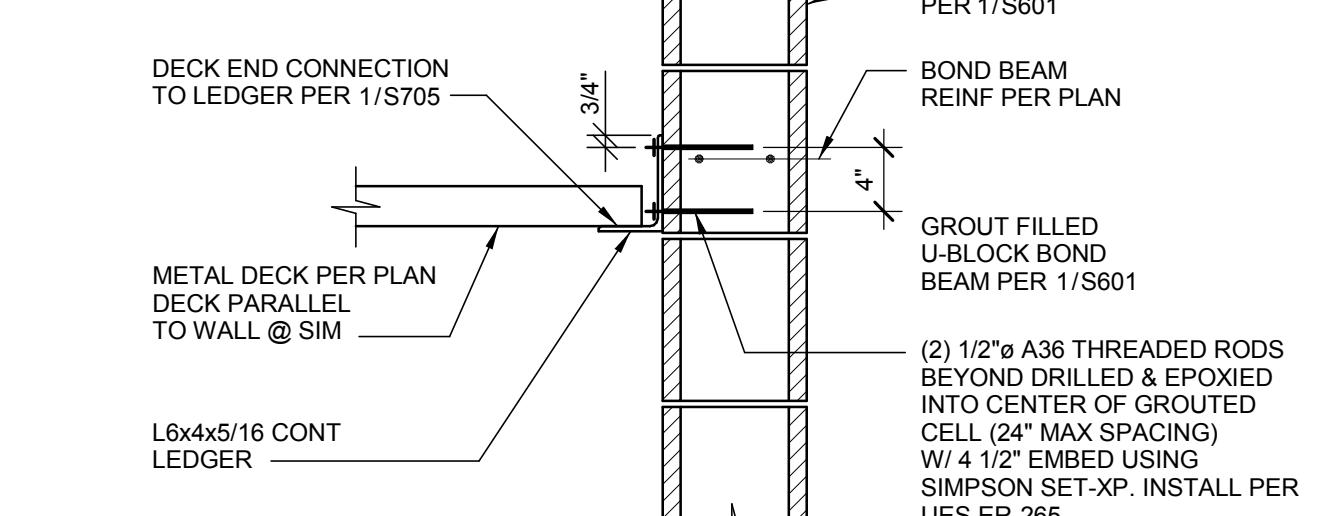
B ROOF DECK

1 CONCRETE BOND BEAM

SCALE : 1" = 1'-0"



A CONCRETE DECK



B ROOF DECK

2 DECK TO CMU WALL

SCALE : 1" = 1'-0"

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O: 208.336.6985
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City of Boise Fire Station 4
8485 W. Ustick Rd, Boise, ID 83704

MARK	DATE	DESCRIPTION

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

PROJECT NUMBER	114747.01
PROJECT MANAGER	J. Chaffield
PROJECT ARCHITECT	J. Chaffield
DESIGN	J. Chaffield
DRAWN BY	Author

SHEET NAME:

MASONRY DETAILS

SHEET NUMBER:

S650

A

B

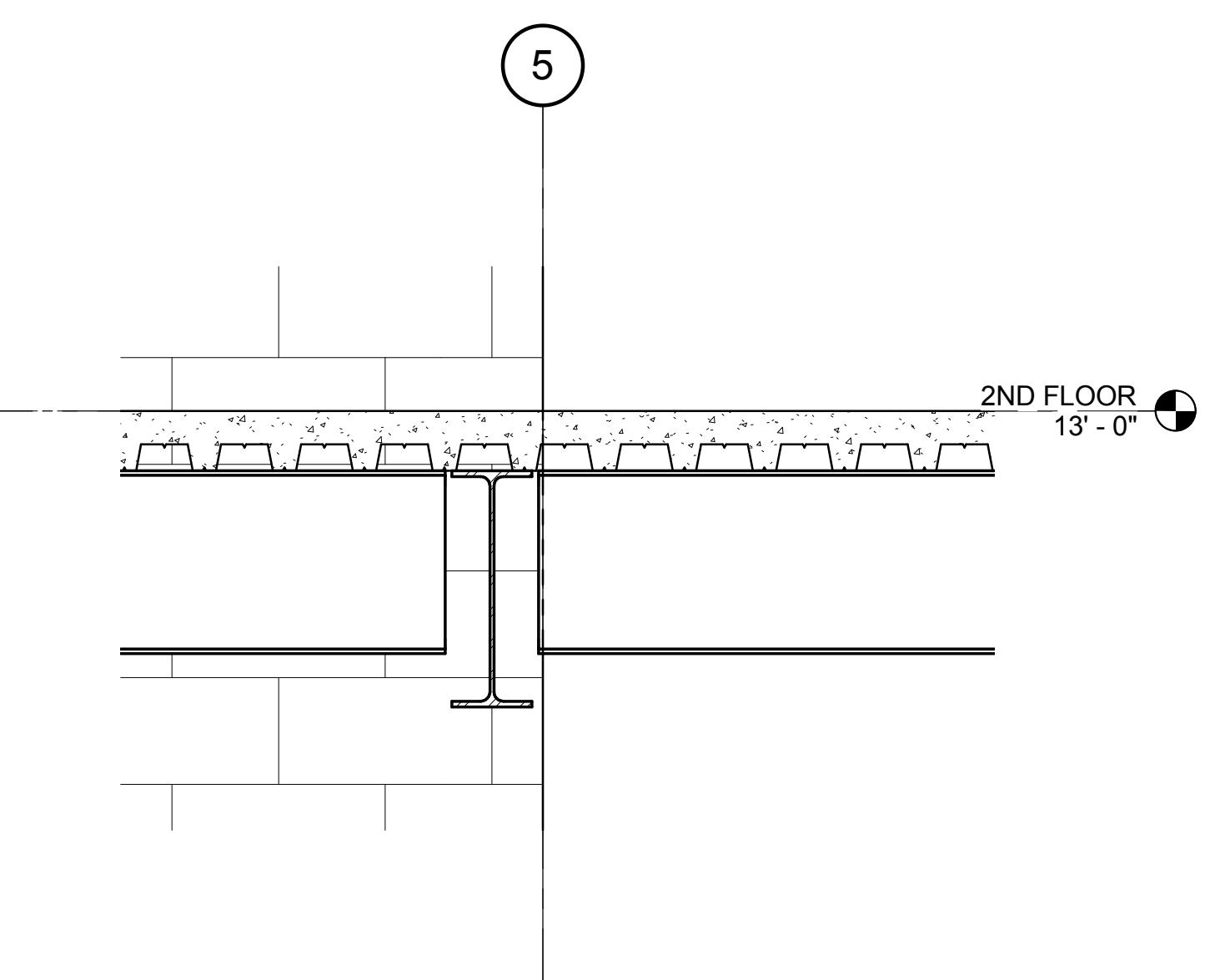
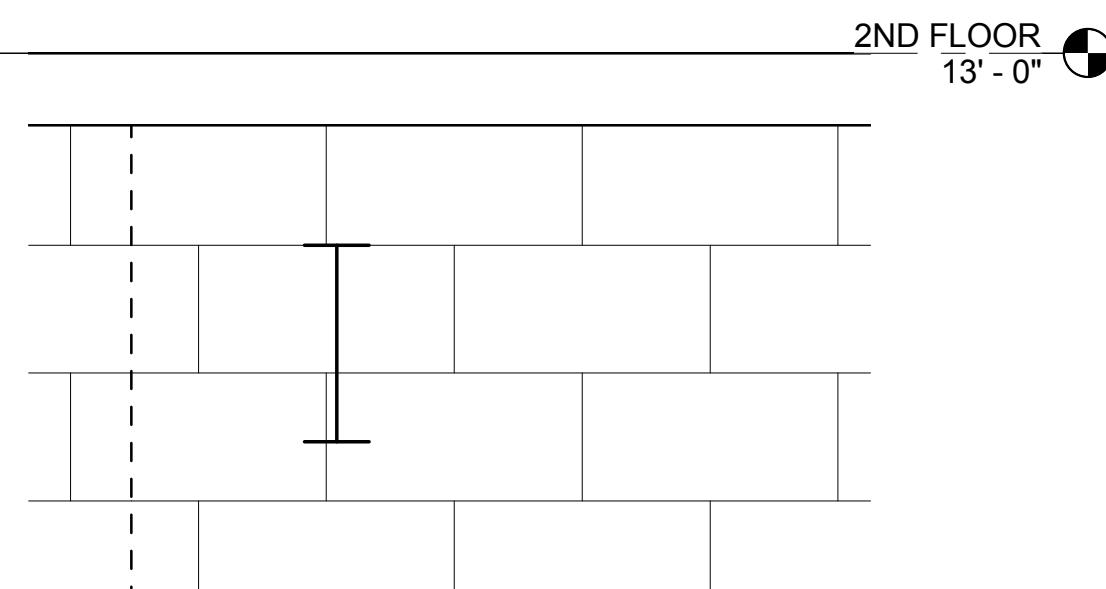
C

D

WF TO CMU - IN PROGRESS 5
IN PROGRESS
3
SCALE : 1" = 1'-0"

IN PROGRESS
1
SCALE : 1" = 1'-0"

IN PROGRESS 2
2
SCALE : 1" = 1'-0"



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CONSULTANT:

PROJECT INFORMATION:



City of Boise Fire Station 4
8485 W. Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

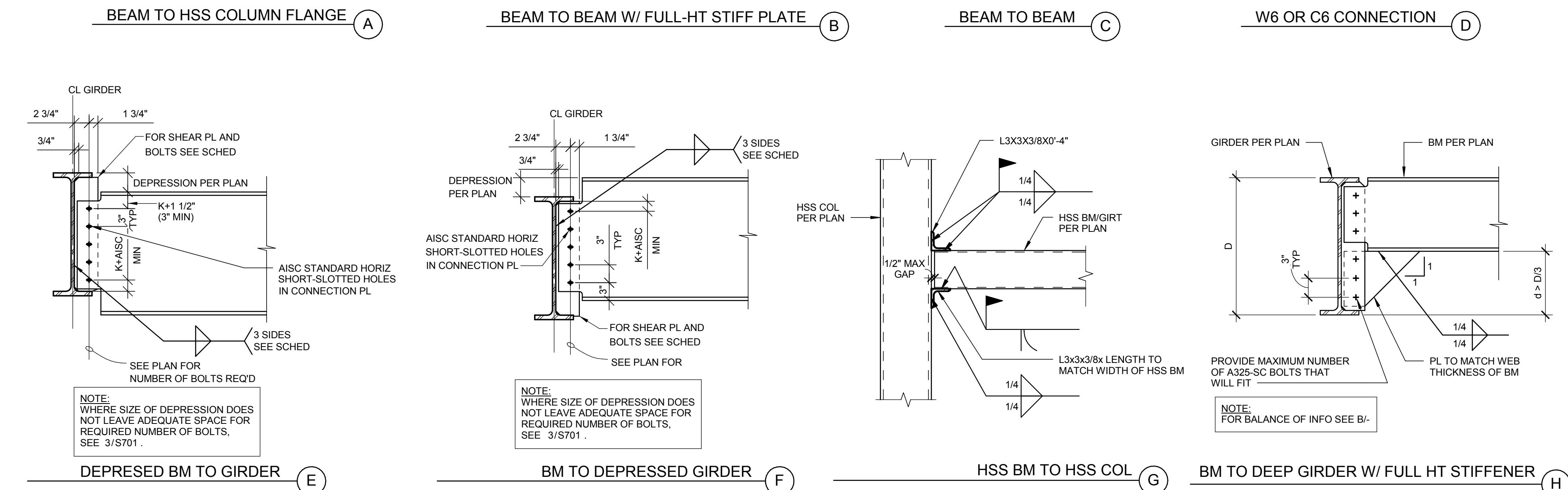
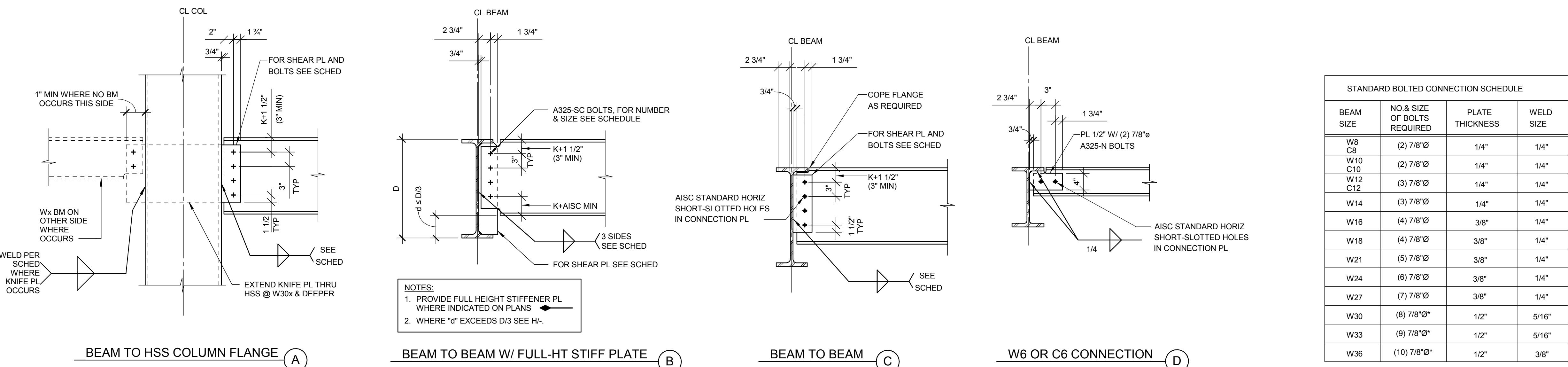
PROJECT PHASE: 75% CD

PROJECT NUMBER	114747.01
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	CCH

SHEET NAME:

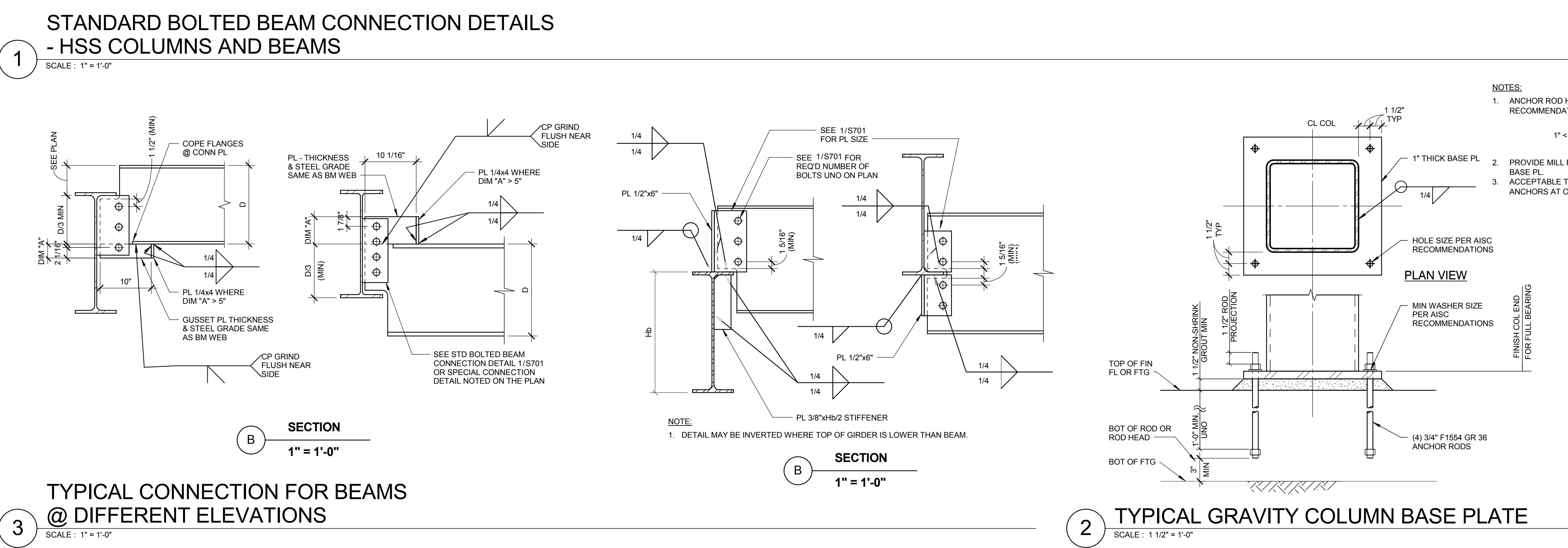
TYPICAL STEEL DETAILS

SHEET NUMBER:



CONNECTION NOTES:

- ALL BOLTS TO BE ASTM A325-N AND FULLY PRETENSIONED PER AISC STANDARDS EXCEPT AS DESCRIBED IN NOTES 2 & 7.
- BOLTS IN BEAM TO BEAM CONNECTIONS SHALL BE TIGHTENED TO AISC "SNUG TIGHT" CONDITION UNLESS NOTED OTHERWISE IN DETAILS.
- CONNECTION PLATES TO HAVE AISC SHORT SLOTTED HOLES UNLESS NOTED OTHERWISE.
- USE A36 STEEL FOR ALL SHEAR TABS IN THIS DETAIL UNO.
- 'K' PER AISC, LARGER OF THE TWO CONNECTING BEAMS.
- BOLTS IN CONNECTIONS OF MEMBERS DESIGNATED AS PART OF THE LATERAL FORCE RESISTING SYSTEM (LFRS) TO BE A325-N SLIP CRITICAL BOLTS WITH CLASS-A FAYING SURFACE UNLESS NOTED OTHERWISE.



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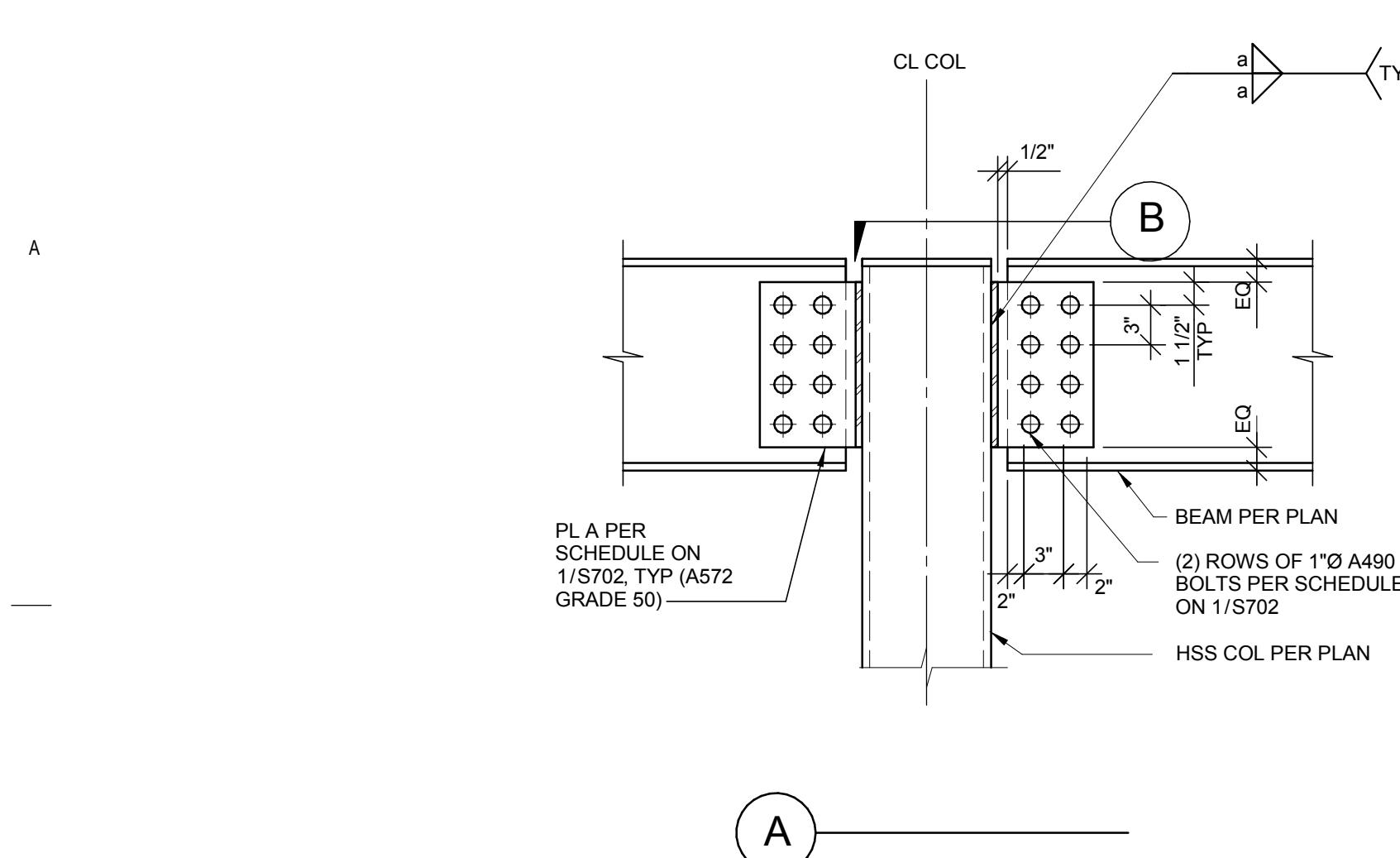
REVISIONS:

MARK	DATE	DESCRIPTION

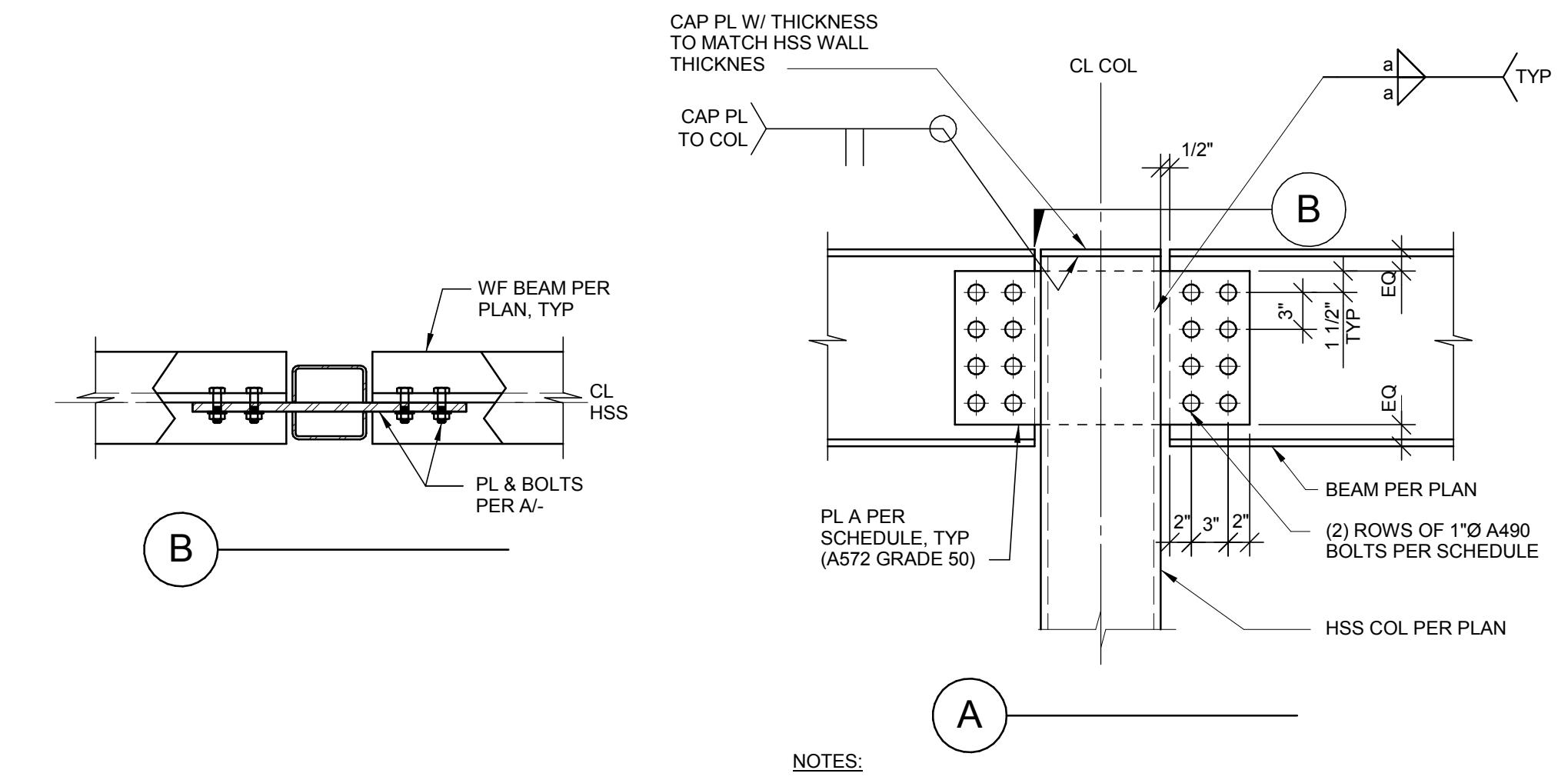
PROJECT PHASE	75% CD
PROJECT NUMBER	114747.01
PROJECT MANAGER	J. Chaffield
PROJECT ARCHITECT	J. Chaffield
DESIGN	J. Chaffield
DRAWN BY	Author
SHEET NAME:	

TYPICAL STEEL DETAILS

S702

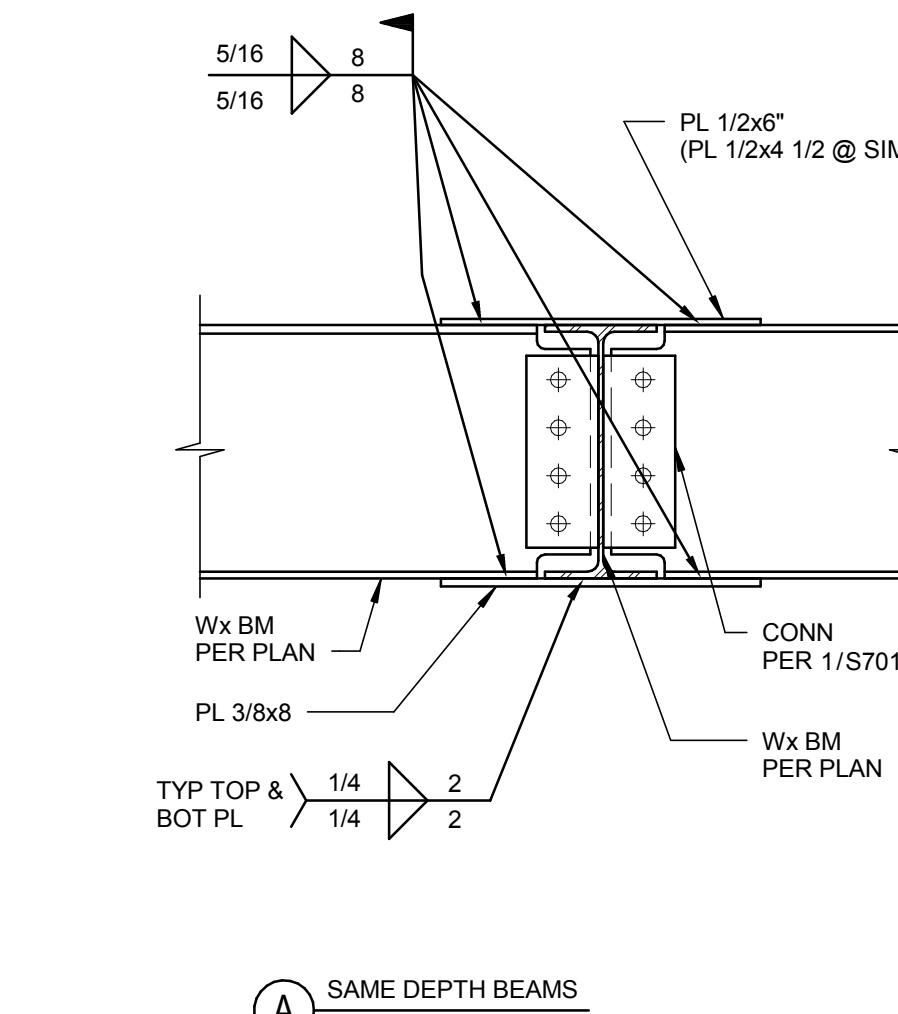
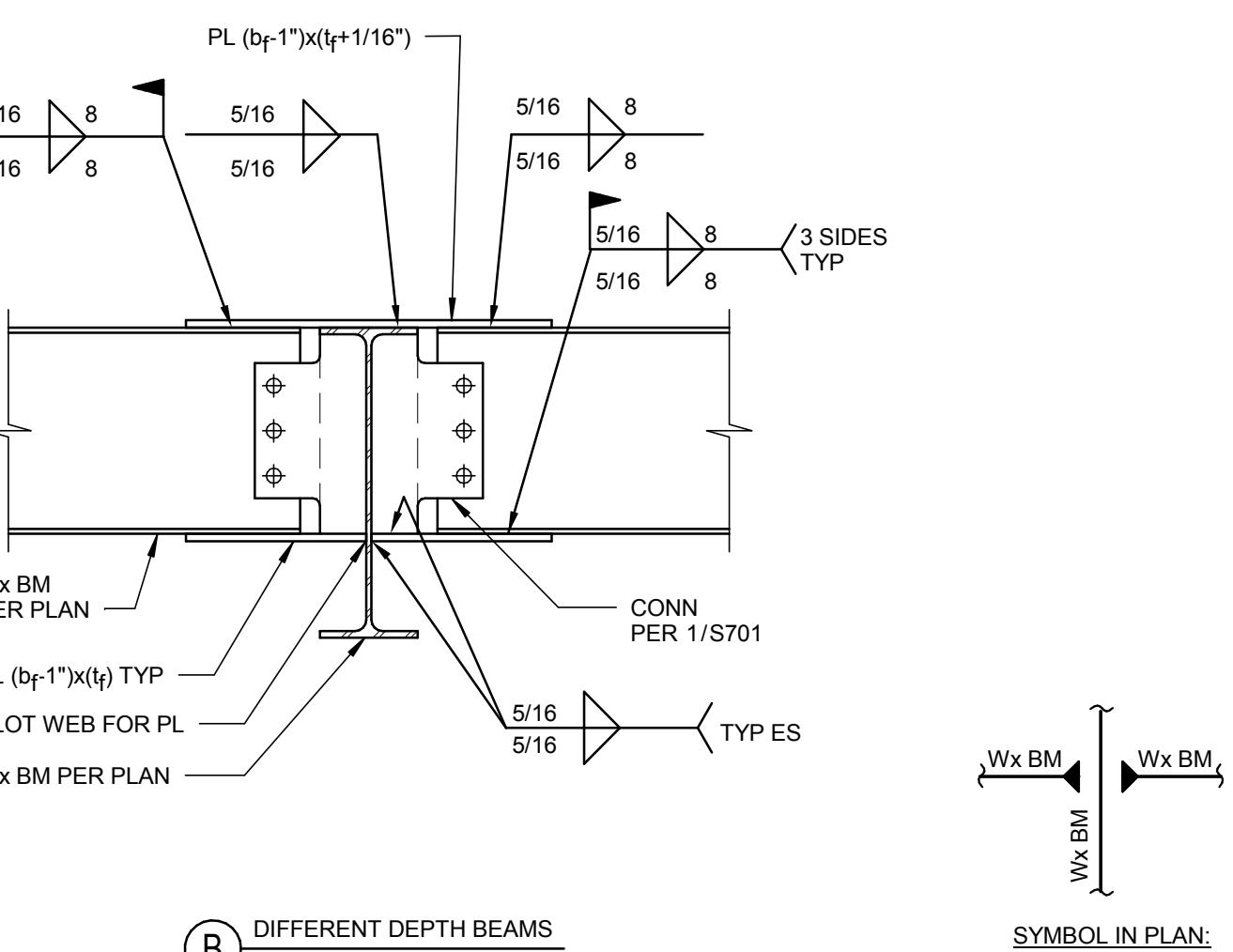
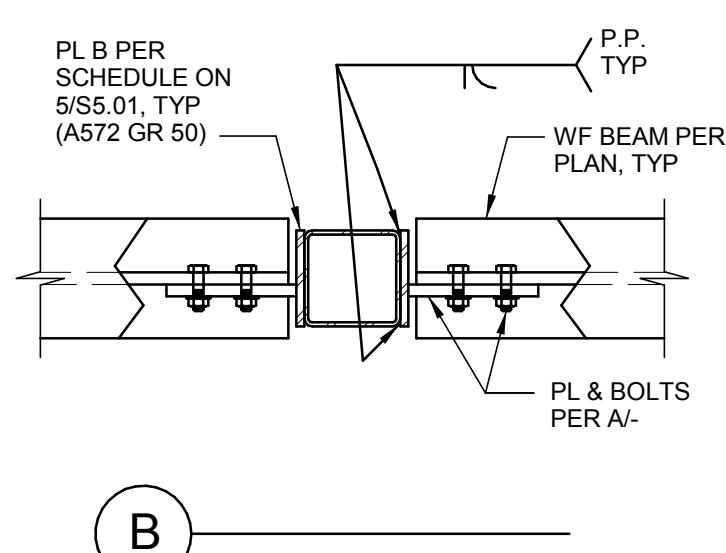


BOLTED DRAG CONNECTION SCHEDULE				
BEAM SIZE	TOTAL NO. OF BOLTS	PLATE "A" THICKNESS	PLATE "B" THICKNESS	WELD "a" SIZE
W8	(4)	1/2"	3/4"	5/16"
W12	(6)	1/2"	3/4"	5/16"
W14	(6)	1/2"	3/4"	5/16"
W16	(8)	1/2"	1"	5/16"
W18	(8)	1/2"	1"	5/16"
W21	(10)	5/8"	1"	1/2"
W24	(12)	5/8"	1"	1/2"
W27	(14)	5/8"	1"	1/2"
W30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



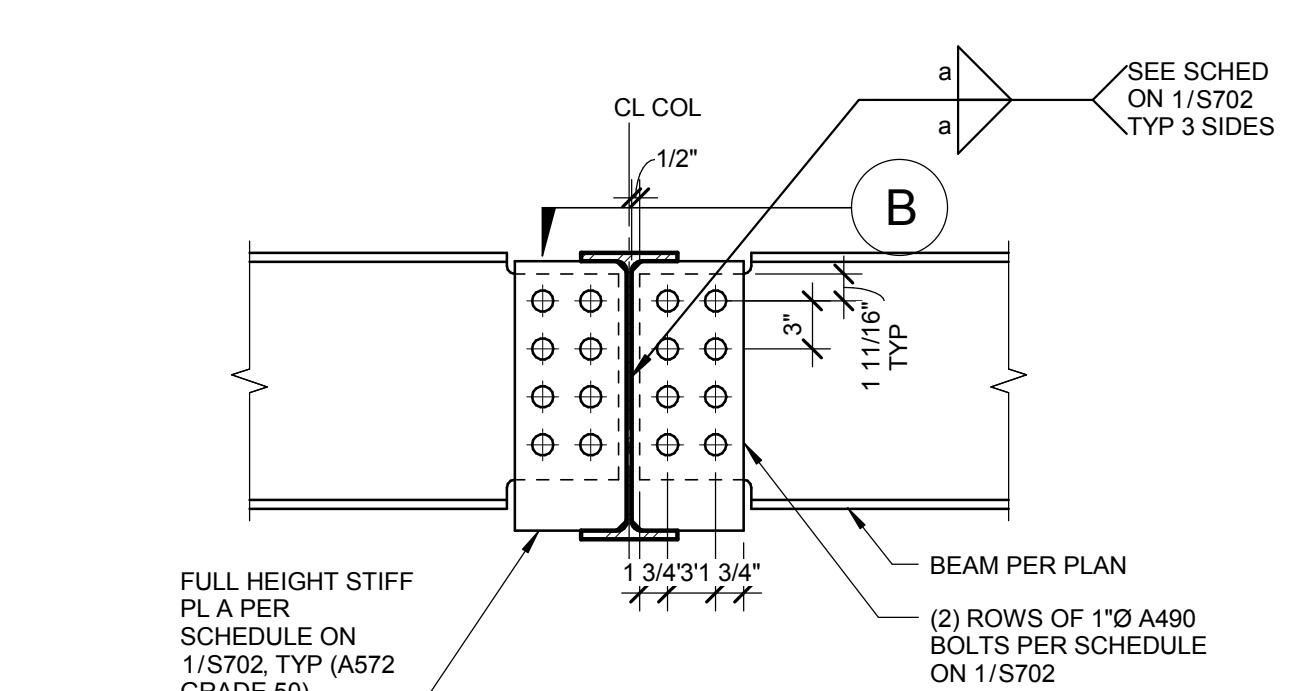
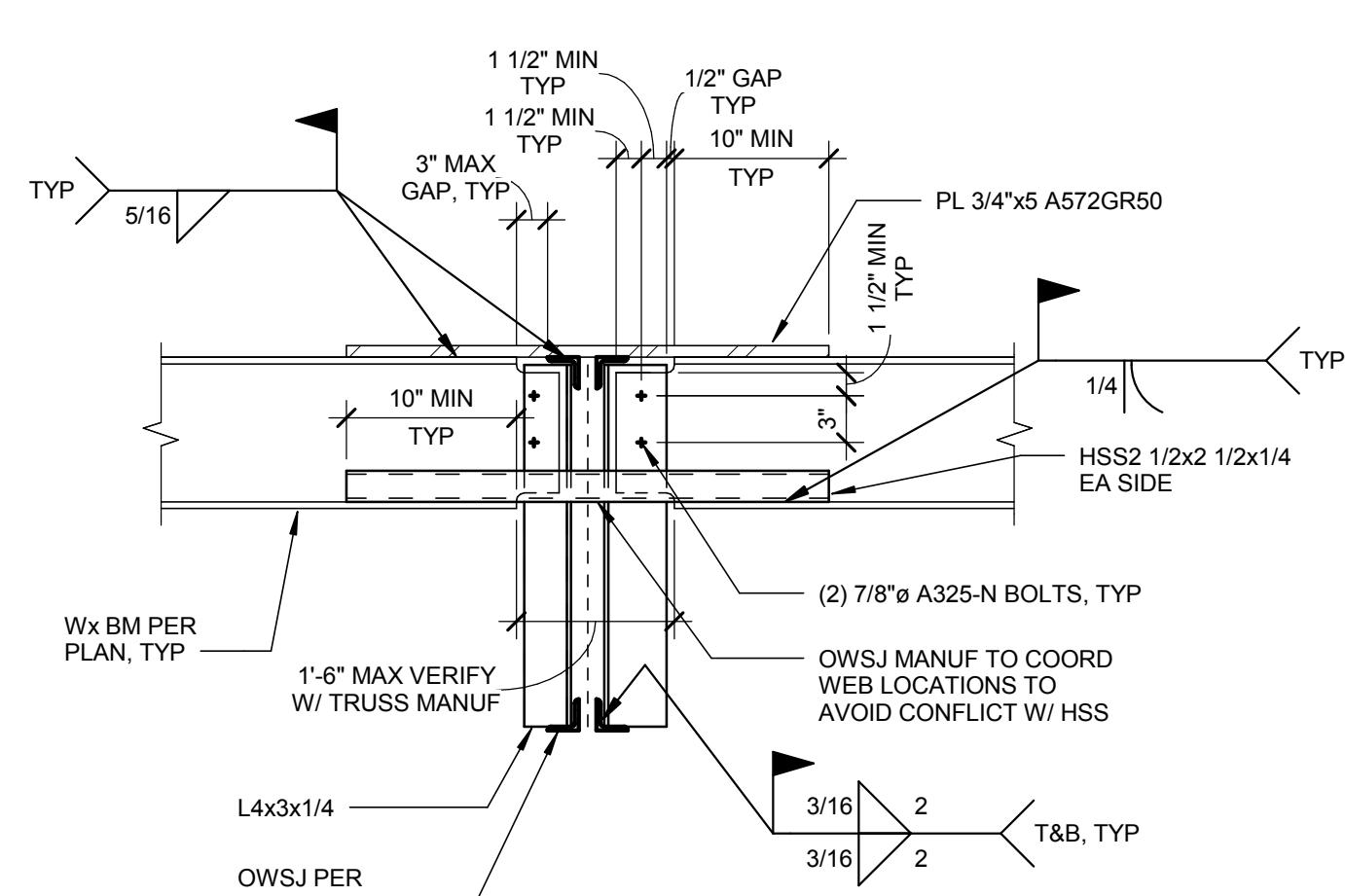
1 TYPICAL DRAG CONNECTION

SCALE : 1" = 1'-0"



2 BEAM TO BEAM MOMENT CONNECTION

SCALE : 1" = 1'-0"

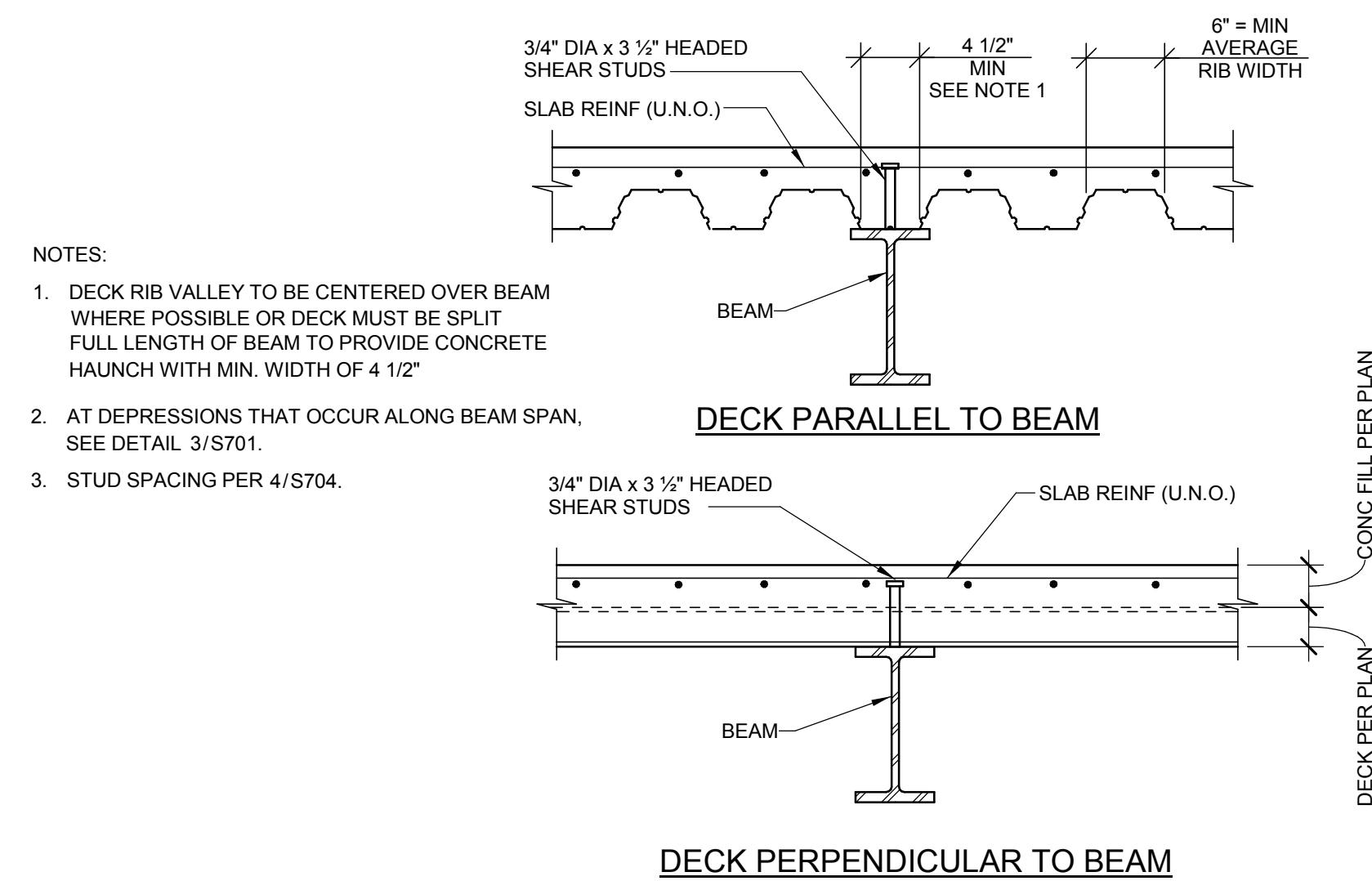


4 WF DRAG CONN THRU OWSJ

SCALE : 1" = 1'-0"

3 DRAG CONN THRU GIRDER

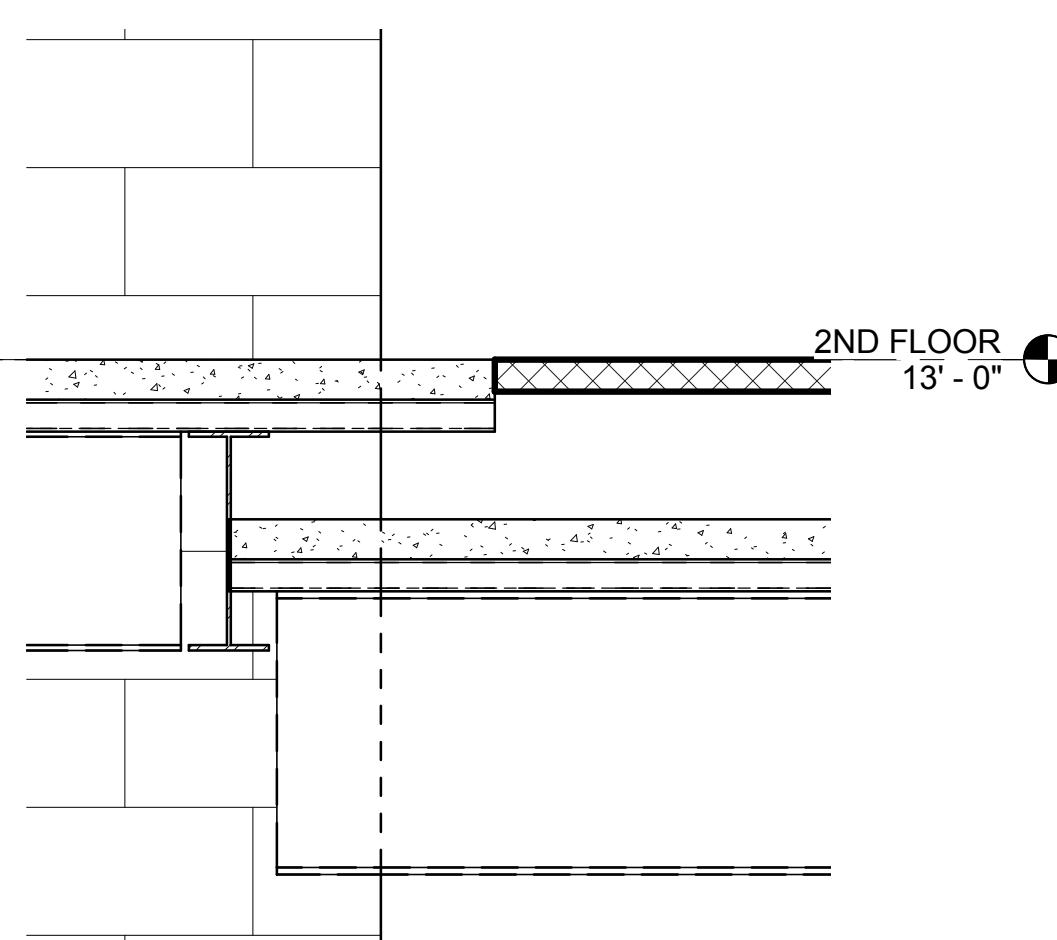
SCALE : 1" = 1'-0"



5 COMPOSITE BEAM TO COMPOSITE SLAB

SCALE : 1" = 1'-0"

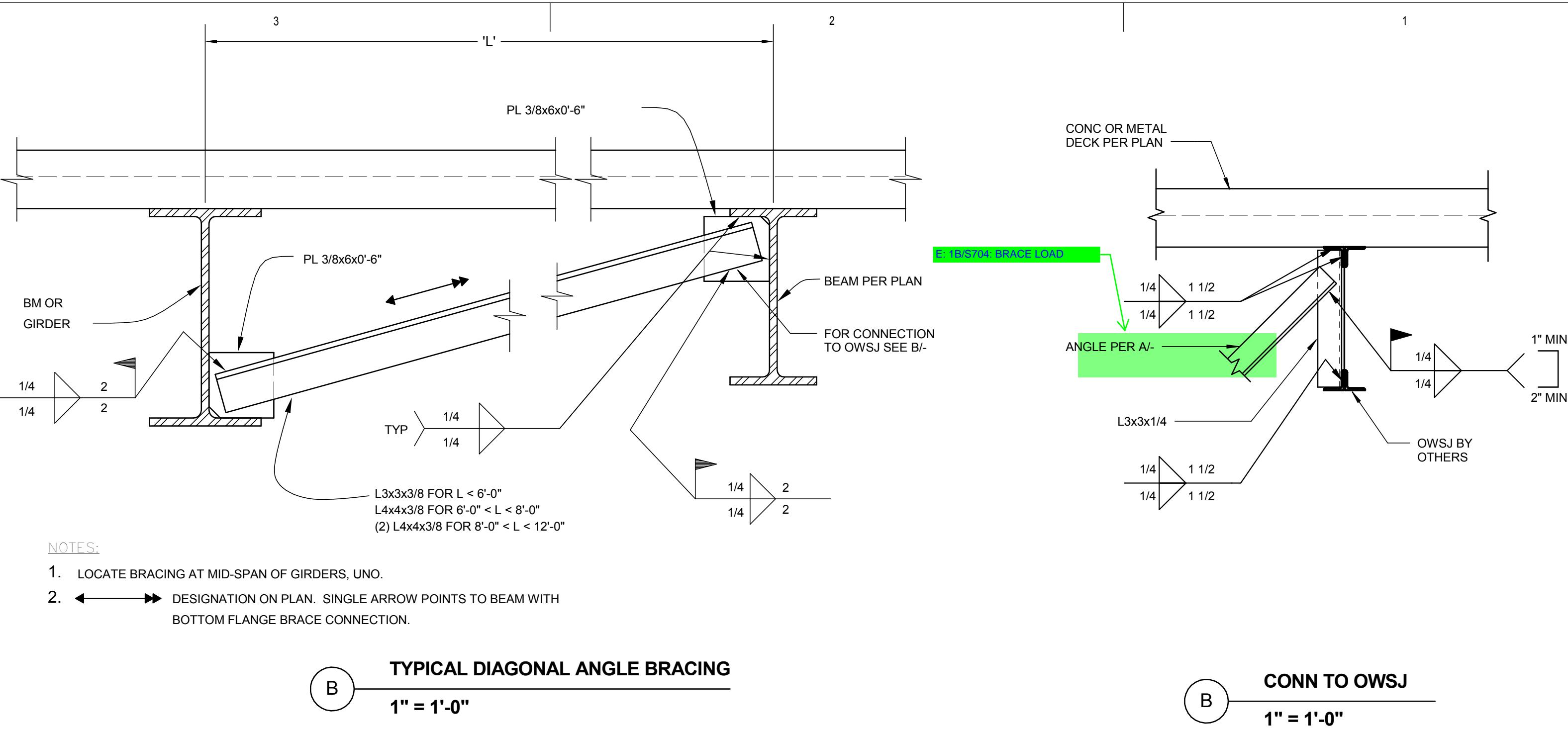
B



3 IN PROGRESS 4

SCALE : 1" = 1'-0"

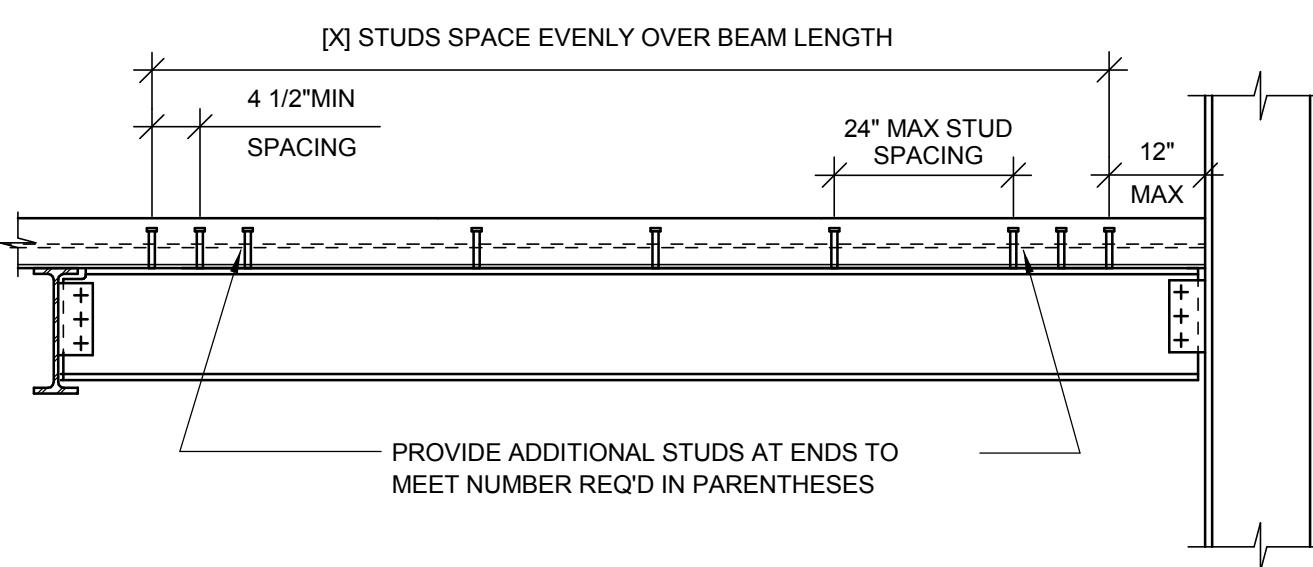
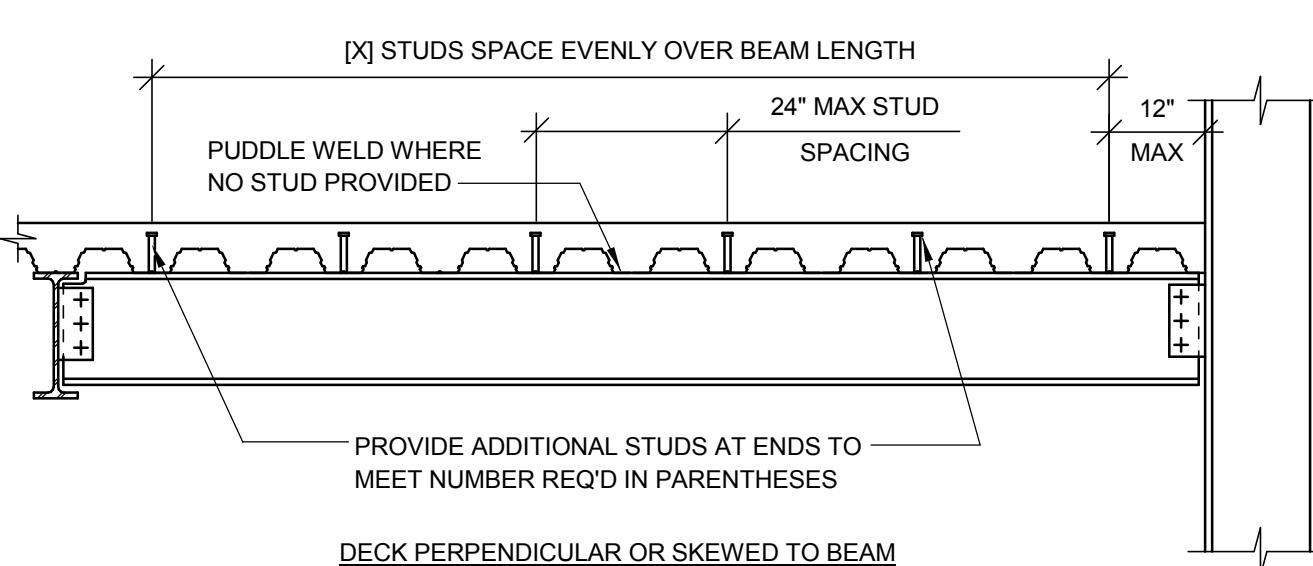
C



1 TYP DIAGONAL ANGLE BRACING

SCALE : 1" = 1'-0"

D



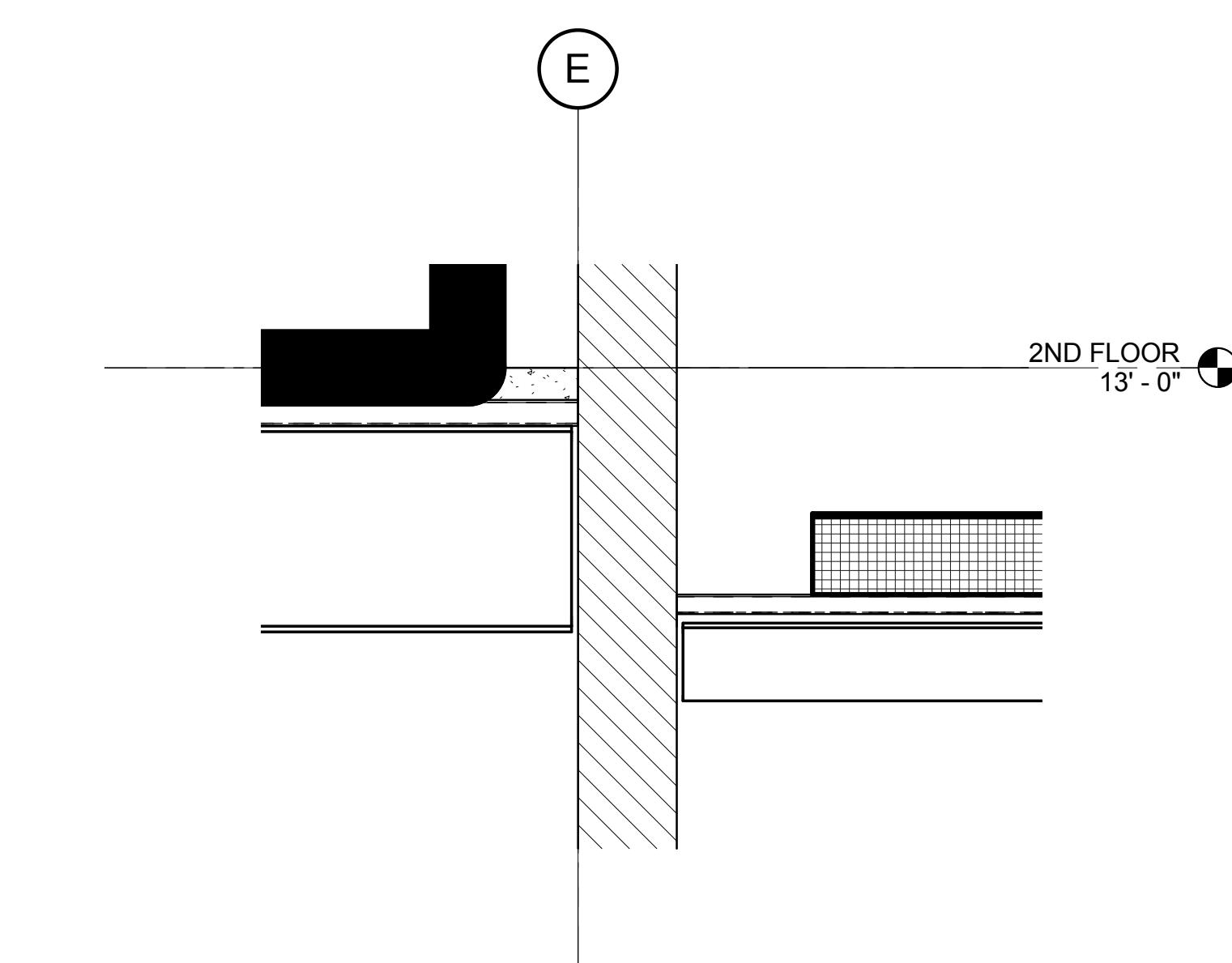
NOTES:

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



2 IN PROGRESS 3

SCALE : 1" = 1'-0"

F



City of Boise Fire Station 4
8485 W. Ustick Rd, Boise, ID 83704

REVISIONS:
MARK DATE DESCRIPTION

PROJECT PHASE 75% CD

PROJECT NUMBER 114747.01
PROJECT MANAGER J. Chaffield
PROJECT ARCHITECT J. Chaffield
DESIGN J. Chaffield
DRAWN BY NLP

SHEET NAME:

TYPICAL STEEL DETAILS

SHEET NUMBER:

S704

11.09.15

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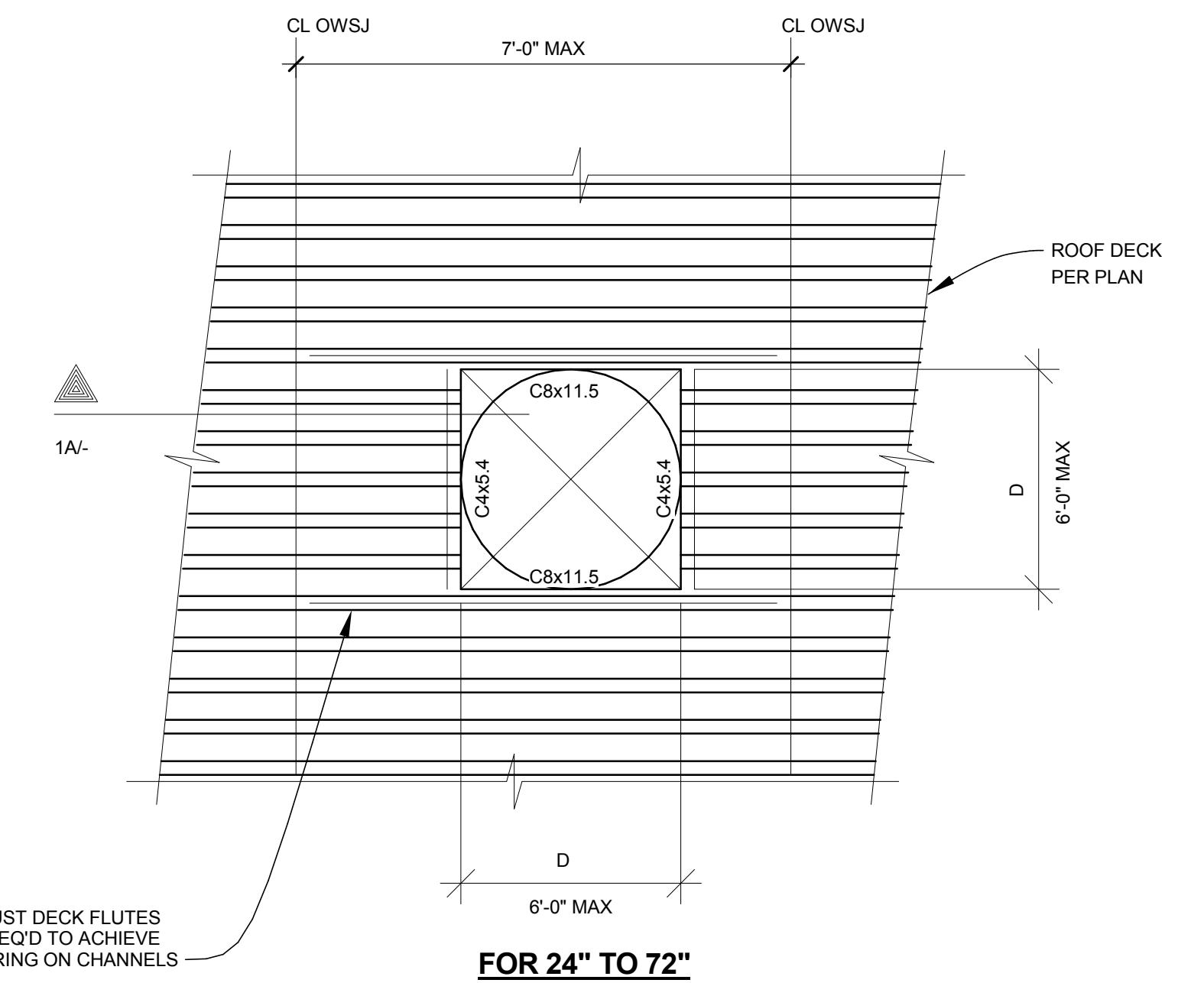
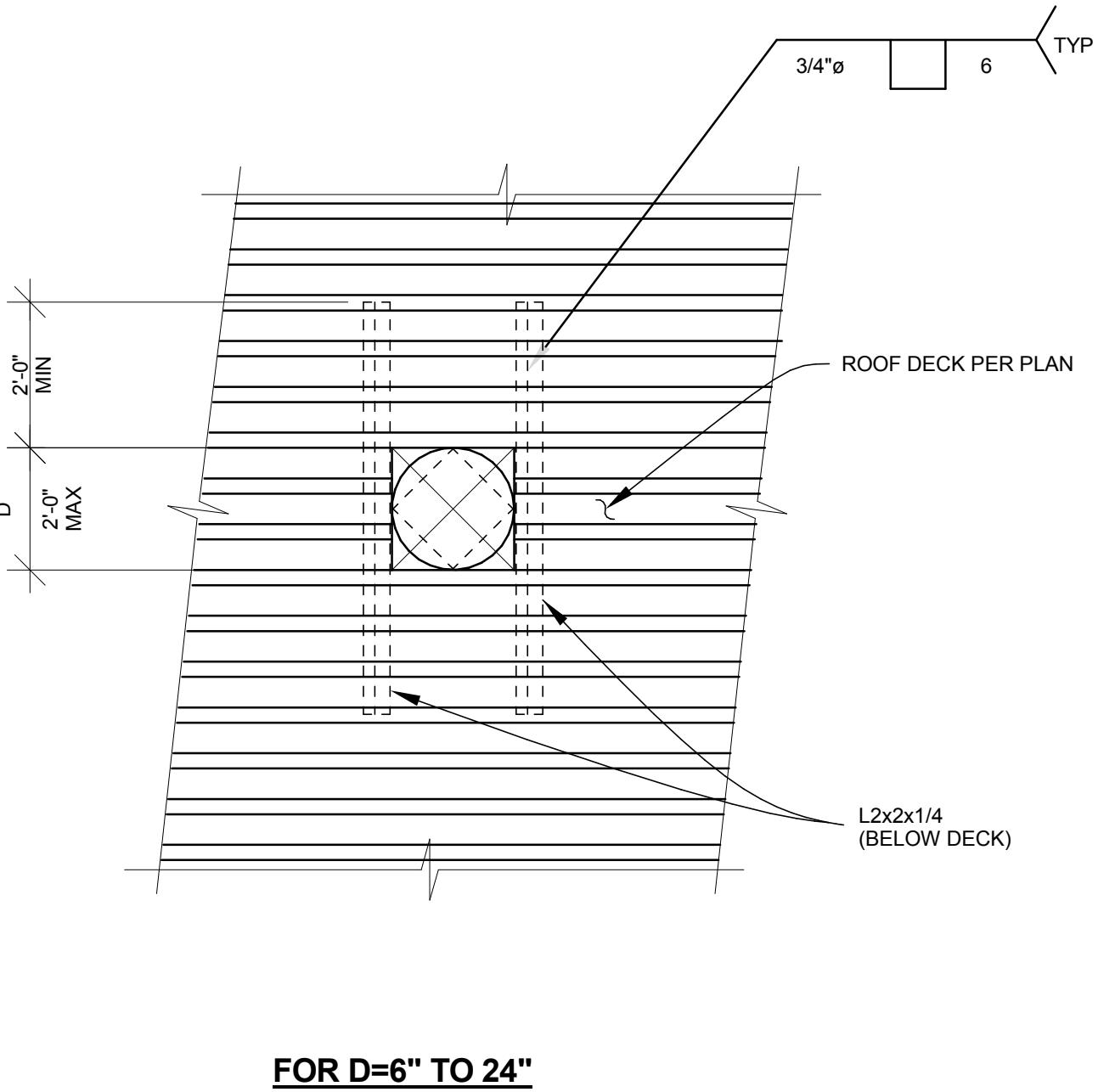
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PROJECT INFORMATION:

City of Boise Fire Station 4
8485 W. Ustick Rd, Boise, ID 83704

A



1

TYPICAL OPENING DETAILS FOR METAL DECKS

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

B

C

D

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE	75% CD
PROJECT NUMBER	114747.01
PROJECT MANAGER	J. Chaffield
PROJECT ARCHITECT	J. Chaffield
DESIGN	J. Chaffield
DRAWN BY	Author

SHEET NAME:

TYPICAL STEEL DECK DETAILS

SHEET NUMBER:
S706

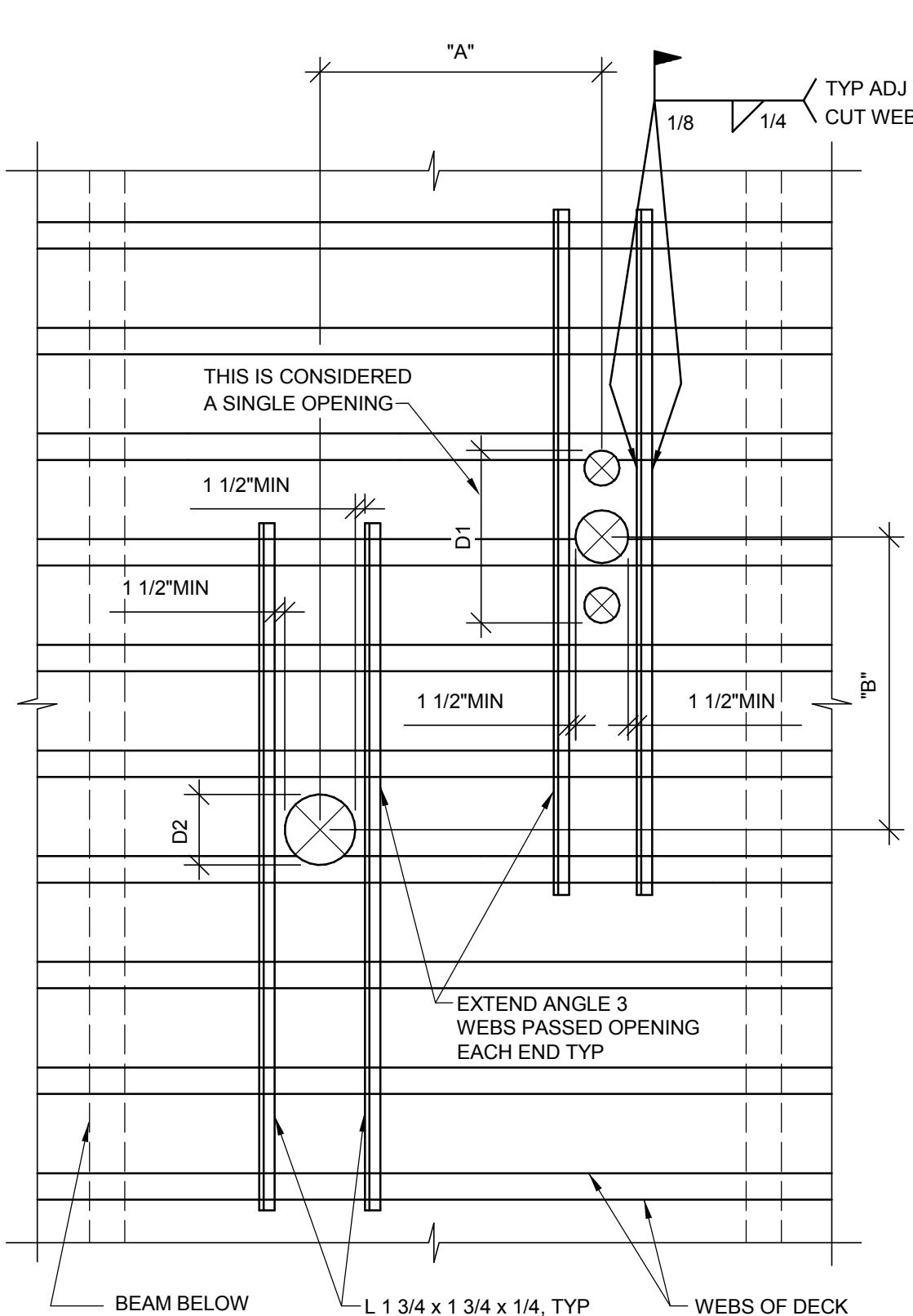
11.09.15

A

B

C

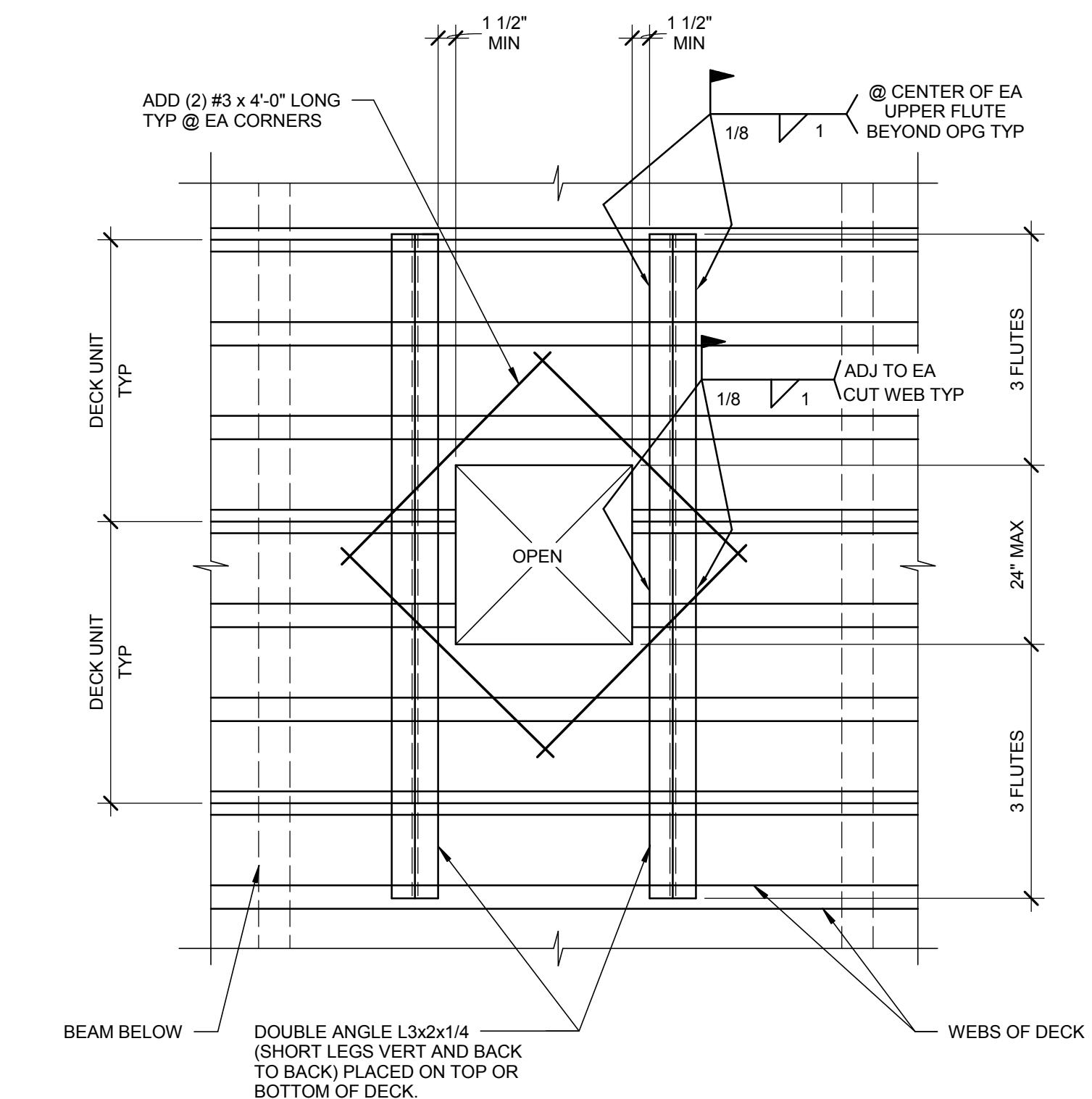
D



- NOTES:**
1. DO NOT CUT MORE THAN 2 ADJACENT WEBS.
 2. HOLES LESS THAN 6" IN DIAMETER AND CUTTING NO MORE THAN 1 WEB NEED NO REINFORCING.
 3. ANGLES SHALL BE PLACED ON TOP OF DECK.
 4. IF DIMENSION "A" IS GREATER THAN 4D1, 4D2, OR 32" WHICHEVER IS LARGER, THEN THERE IS NO RESTRICTION ON DIMENSION "B".
 5. IF DIMENSION "B" IS GREATER THAN 4D1, 4D2, OR 32" WHICHEVER IS LARGER, THEN THERE IS NO RESTRICTION ON DIMENSION "A".
 6. IF DIMENSIONS "A" AND "B" ARE LESS THAN 4D1, 4D2, OR 32" WHICHEVER IS LARGER, THE OPENING GROUP WILL BE CONSIDERED AS A SINGLE HOLE, AND MUST BE REINFORCED AS REQUIRED FOR THE LARGER OPENING.
 7. MAXIMUM DIMENSION FOR D1 AND D2 IS 12". HOLES CAN CUT NO MORE THAN TWO ADJACENT WEBS.
 8. ALL OPENINGS ADJACENT TO BRACED FRAME BEAMS, DRAG BEAMS, AND CHORD BEAMS CAN ONLY BE DONE WITH THE STRUCTURAL ENGINEER'S APPROVAL.
 9. INSTALL ALL CANS OR SLEEVES TO MAINTAIN MIN 1/4" CLEAR BELOW TOP OF CONCRETE.

2 DECK SLEEVE DETAIL

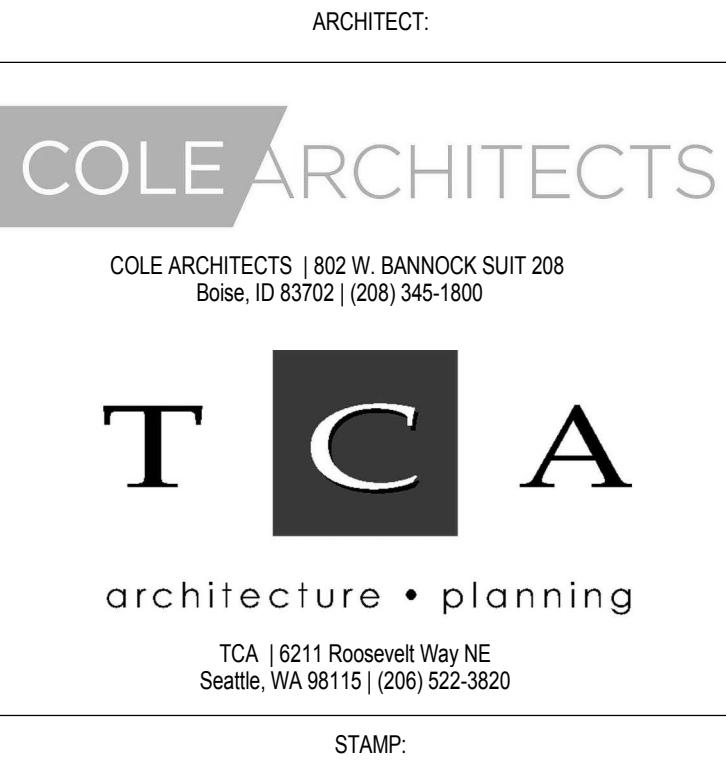
SCALE : 1" = 1'-0"



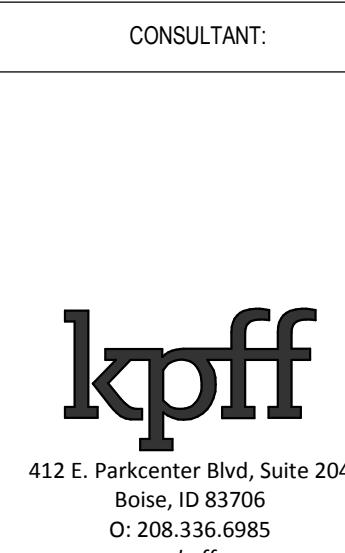
- NOTE:**
1. IF THE OPENING OR GROUP OF OPENINGS OCCUR IN ONE DECKING UNIT, THE OPENING OR OPENING GROUP MAY BE CUT PRIOR TO POURING OF CONCRETE.
 2. IF, AS SHOWN IN THE DETAIL ABOVE, THE OPENING OR OPENING GROUP CUTS THROUGH TWO DECKING UNITS, THE DECKING SHALL NOT BE CUT UNTIL CONCRETE HAS BEEN PLACED AND CURED. AT THE TIME OF POURING, SUITABLE SLEEVES OR BULKHEADS SHALL BE PLACED AROUND THE OPENING.
 3. ADD REBAR AT CORNERS OF OPENING.
 4. WHEN THE MAXIMUM DIMENSION OF AN OPENING OR OPENING GROUP EXCEEDS 24", PLACE HEADER BEAM AROUND OPENING PER PLANS.
 5. ALL OPENINGS ADJACENT TO BRACED FRAME BEAMS, DRAG BEAMS, AND CHORD BEAMS CAN ONLY BE DONE WITH THE STRUCTURAL ENGINEER'S.

1 DECK BLOCK OUT DETAIL

SCALE : 1" = 1'-0"



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City of Boise Fire Station 4
8485 W. Ustick Rd, Boise, ID 83704

MARK	DATE	DESCRIPTION

PROJECT PHASE	75% CD
PROJECT NUMBER	114747.01
PROJECT MANAGER	J. Chaffield
PROJECT ARCHITECT	J. Chaffield
DESIGN	J. Chaffield
DRAWN BY	Author

SHEET NAME:

TYPICAL STEEL DECK DETAILS

SHEET NUMBER:	S707
11.09.15	

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CONSULTANT:

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PROJECT INFORMATION:



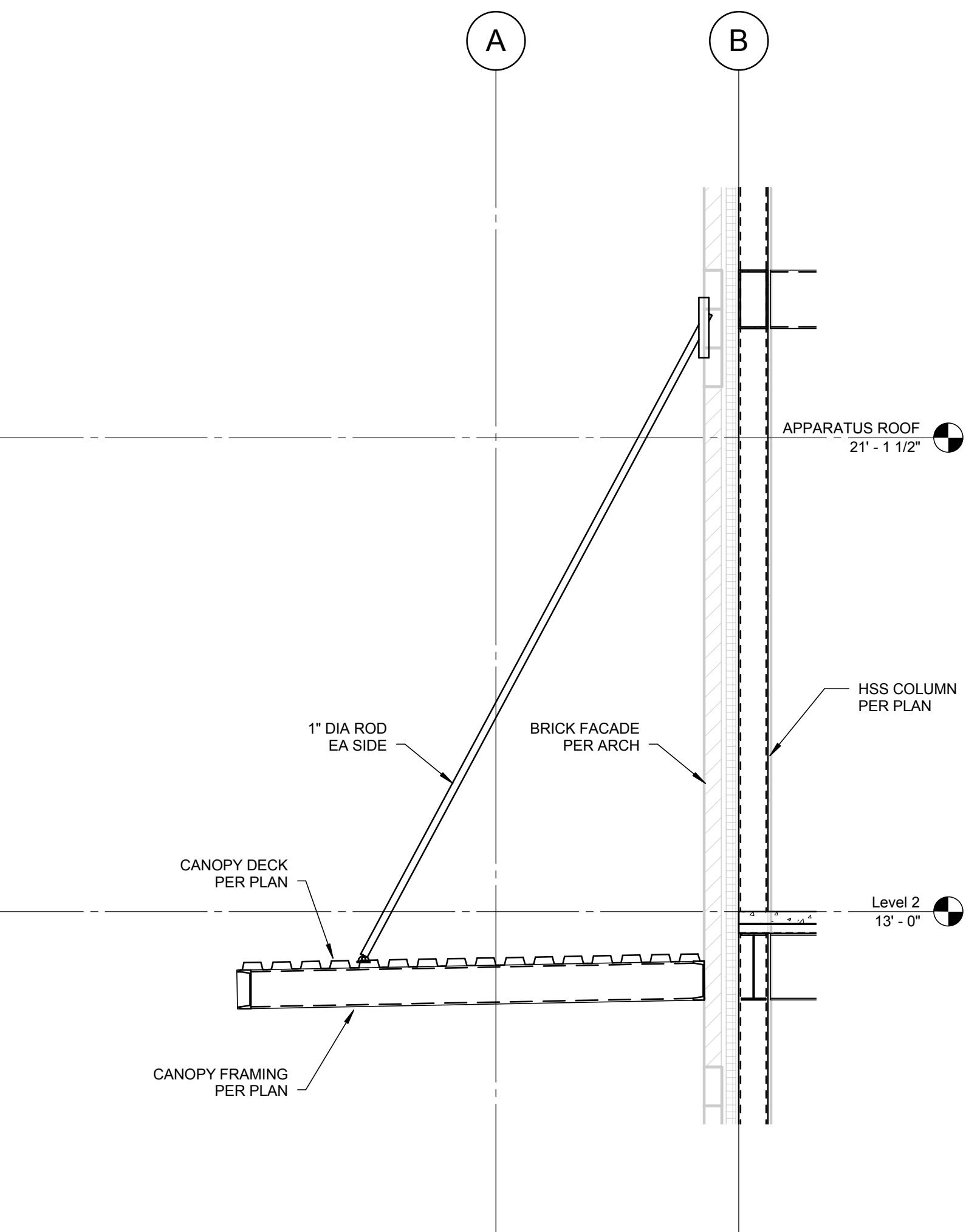
City of Boise Fire Station 4
8485 W. Ustick Rd, Boise, ID 83704

A

B

C

D



1

CANOPY SECTION

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

PROJECT PHASE **75% CD**

PROJECT NUMBER 114747.01
PROJECT MANAGER J. Chaffield
PROJECT ARCHITECT J. Chaffield
DESIGN J. Chaffield
DRAWN BY Author

SHEET NAME:

STEEL DETAILS

SHEET NUMBER:

S750

11.09.15

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CONSULTANT:

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PROJECT INFORMATION:

City of Boise Fire Station 4
8485 W. Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE: 75% CD

PROJECT PHASE	75% CD
PROJECT NUMBER	114747.01
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	Author

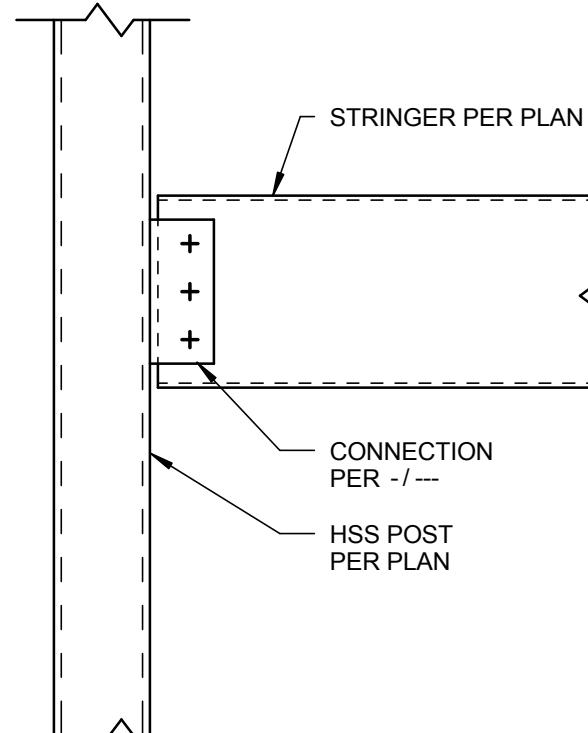
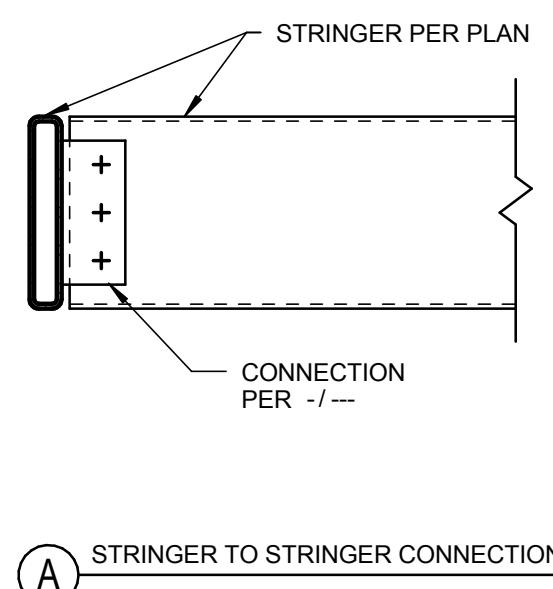
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STAIR DETAILS

SHEET NUMBER:

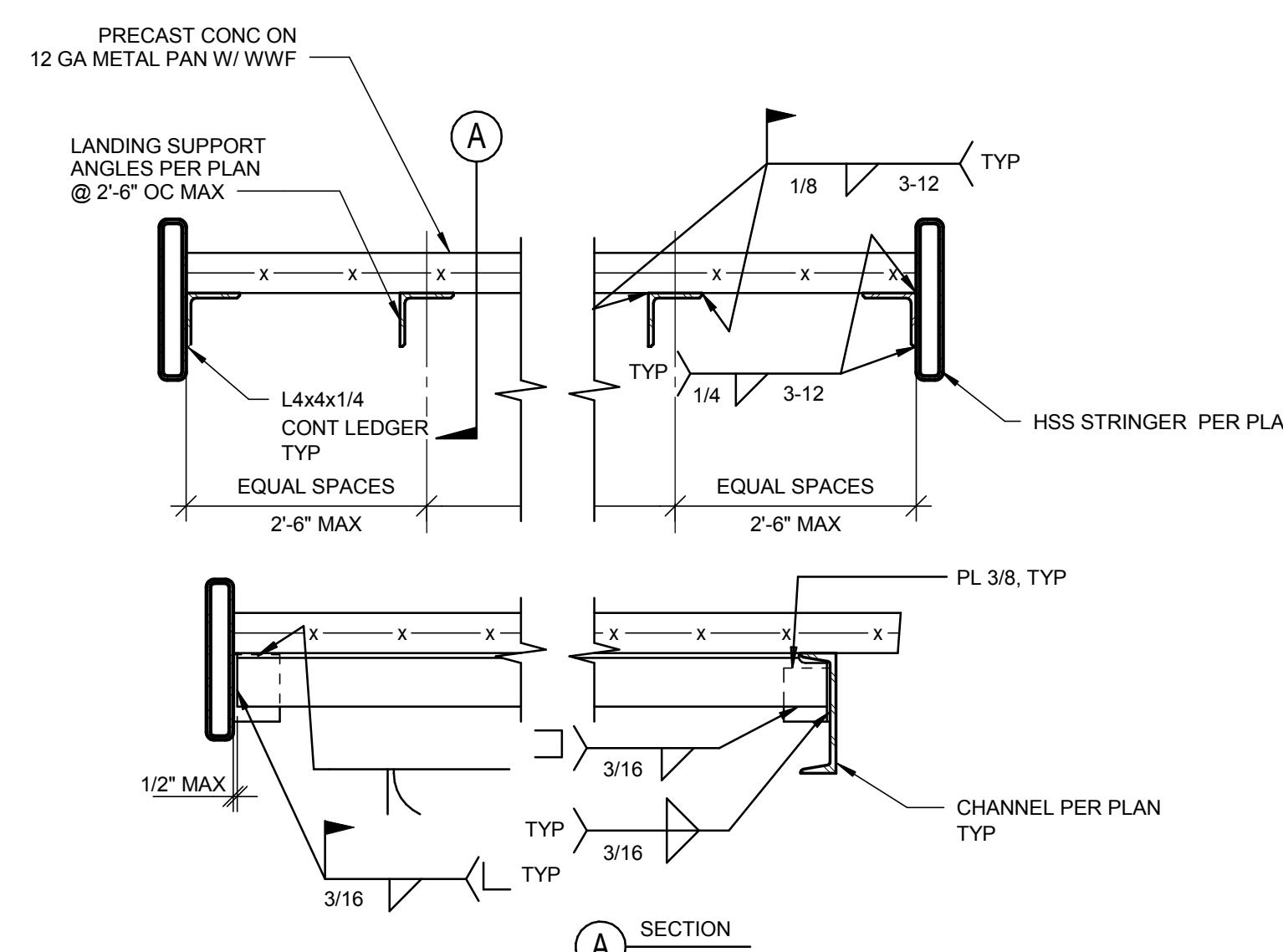
S810

A



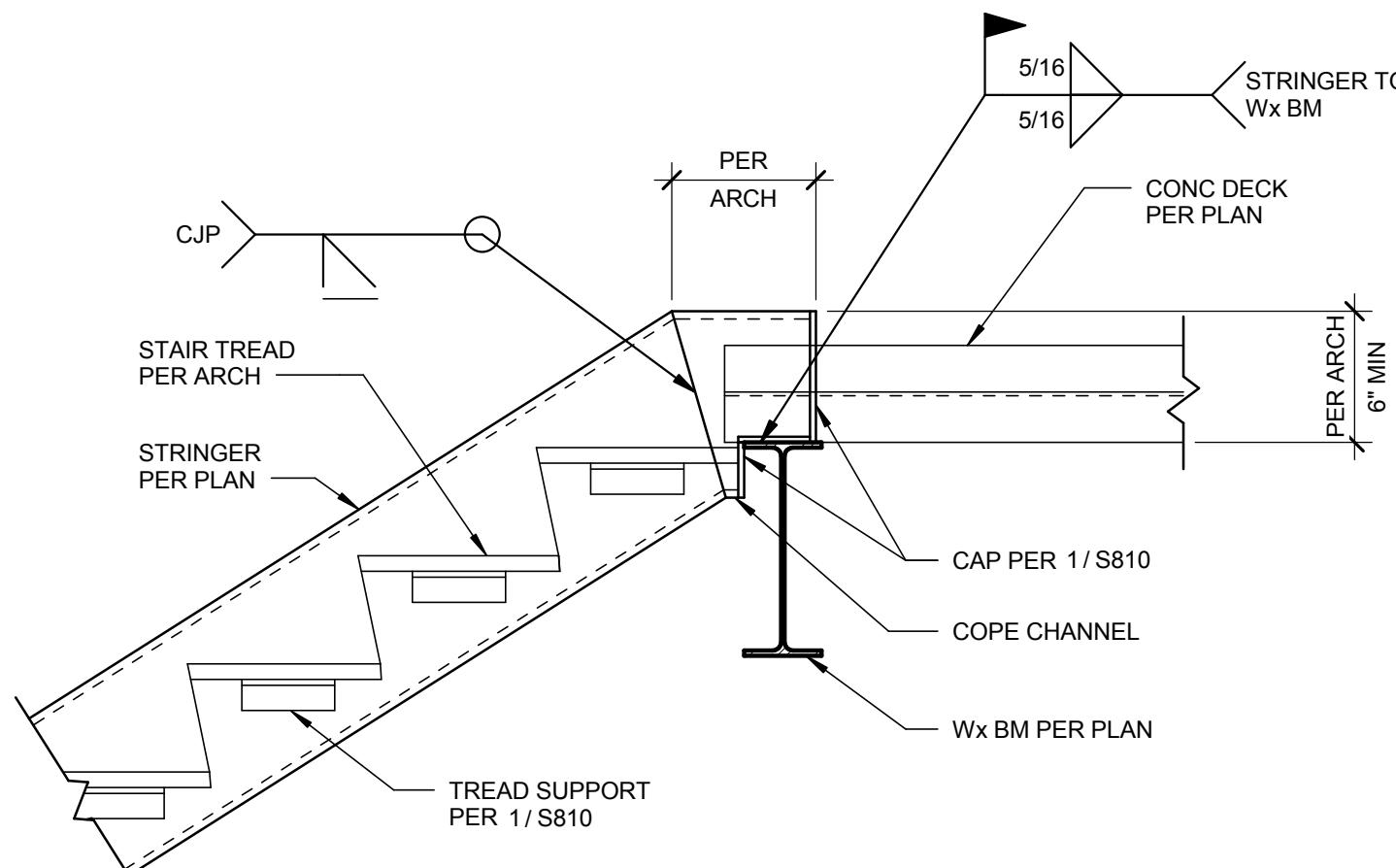
4 STRINGER CONNECTION DETAIL

SCALE: 1" = 1'-0"



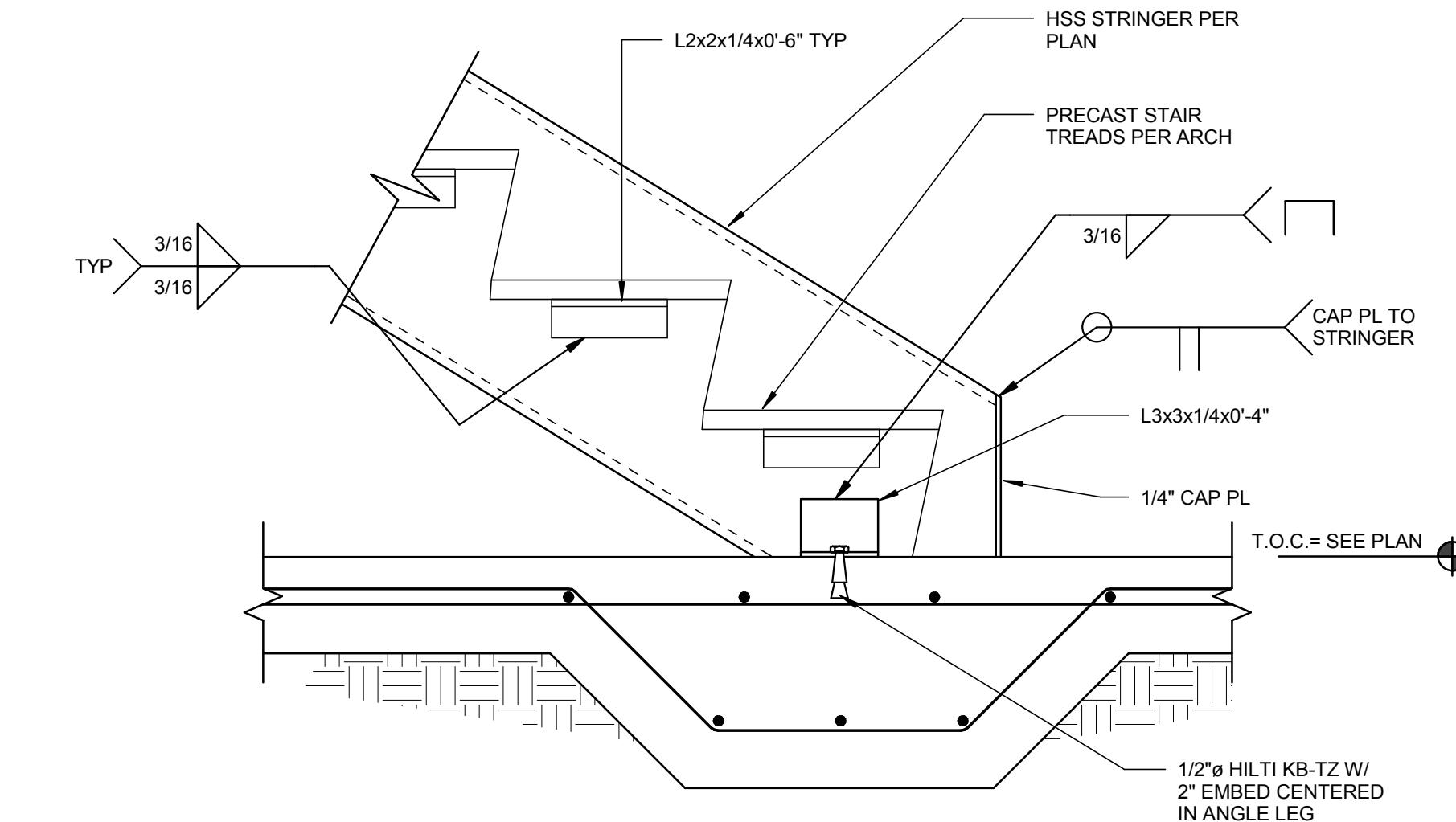
5 LANDING SECTION

SCALE: 1" = 1'-0"



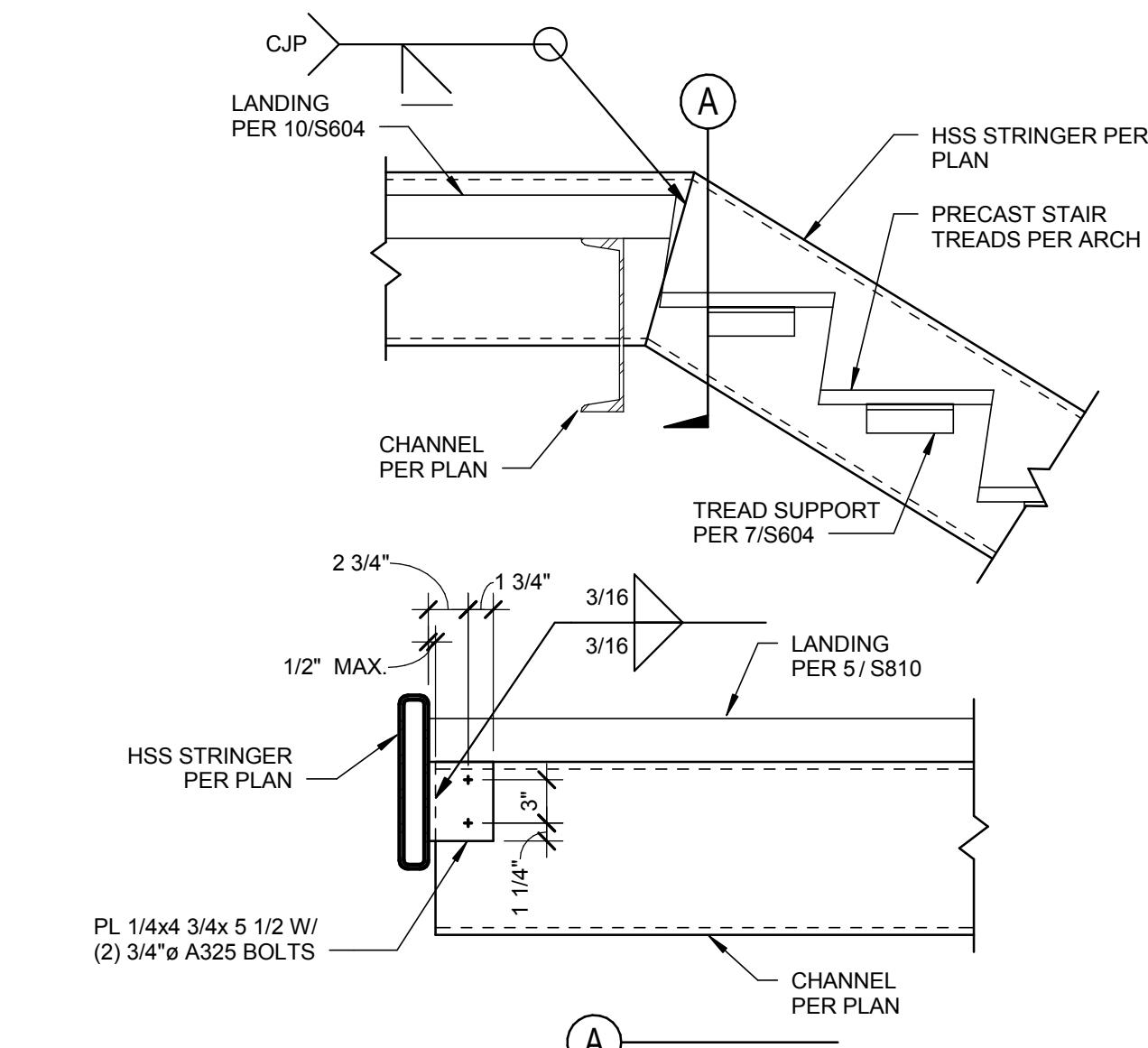
6 STRINGER TO Wx BEAM

SCALE: 1" = 1'-0"



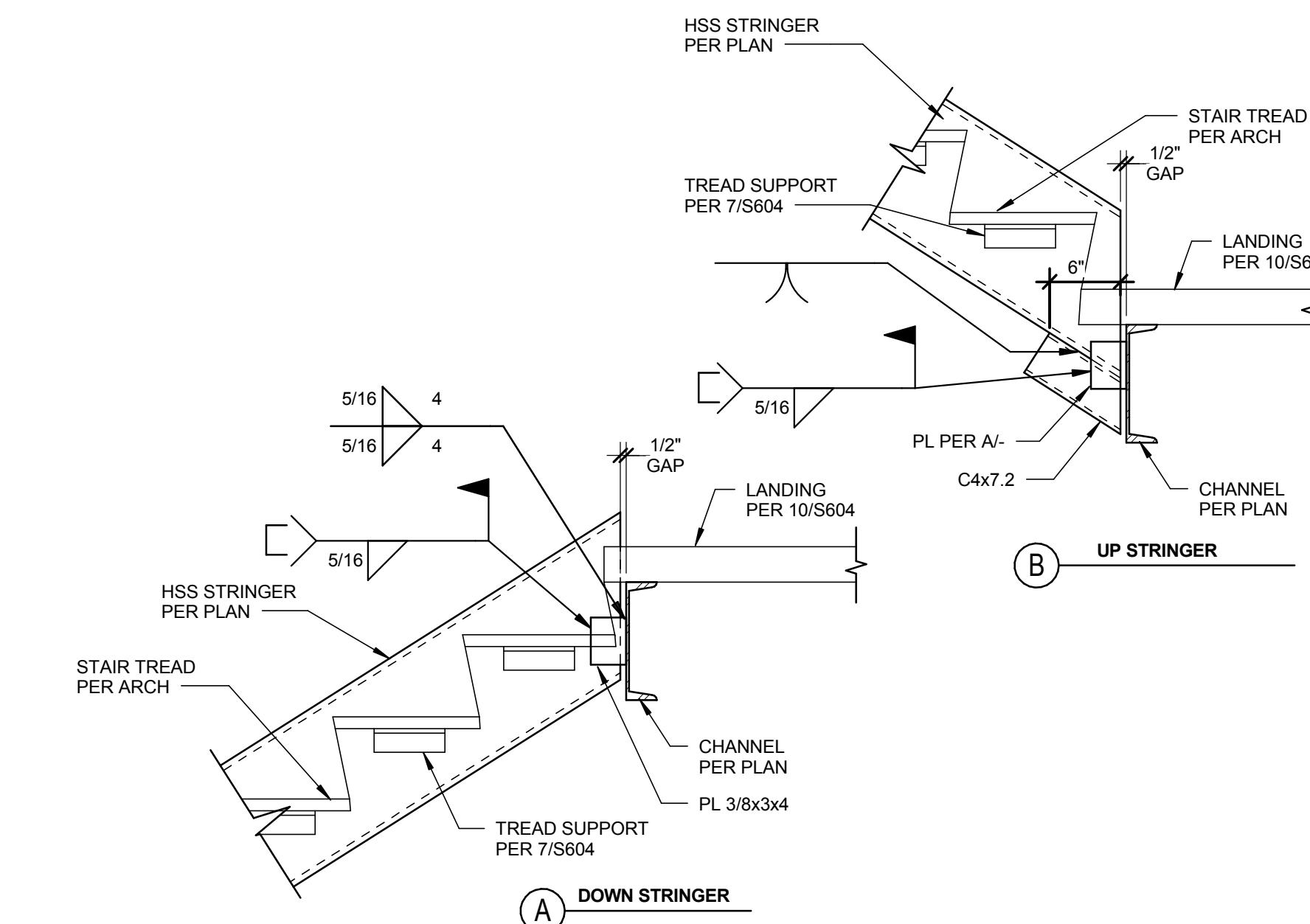
1 STAIR BASE DETAIL

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



2 STRINGER DETAIL

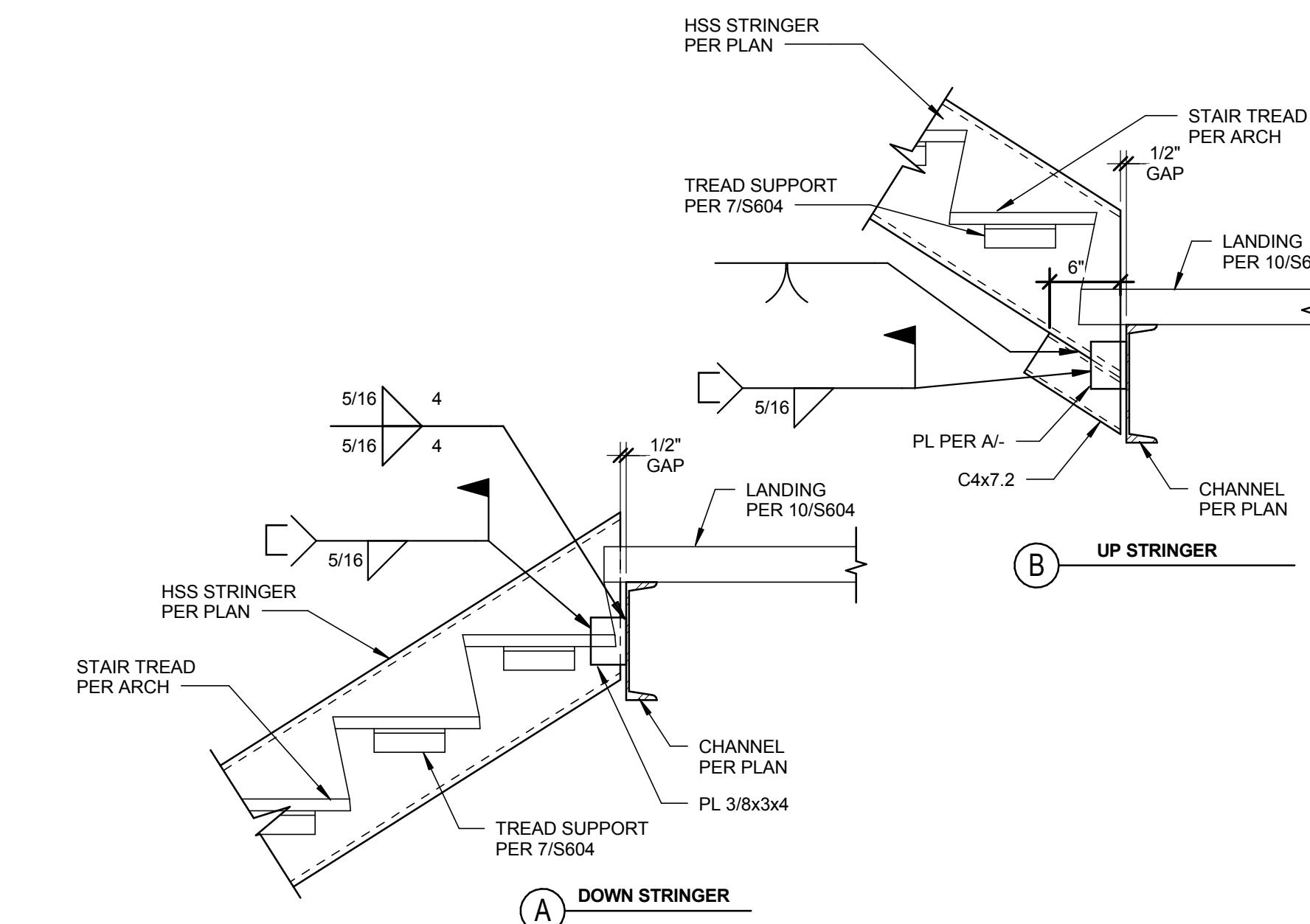
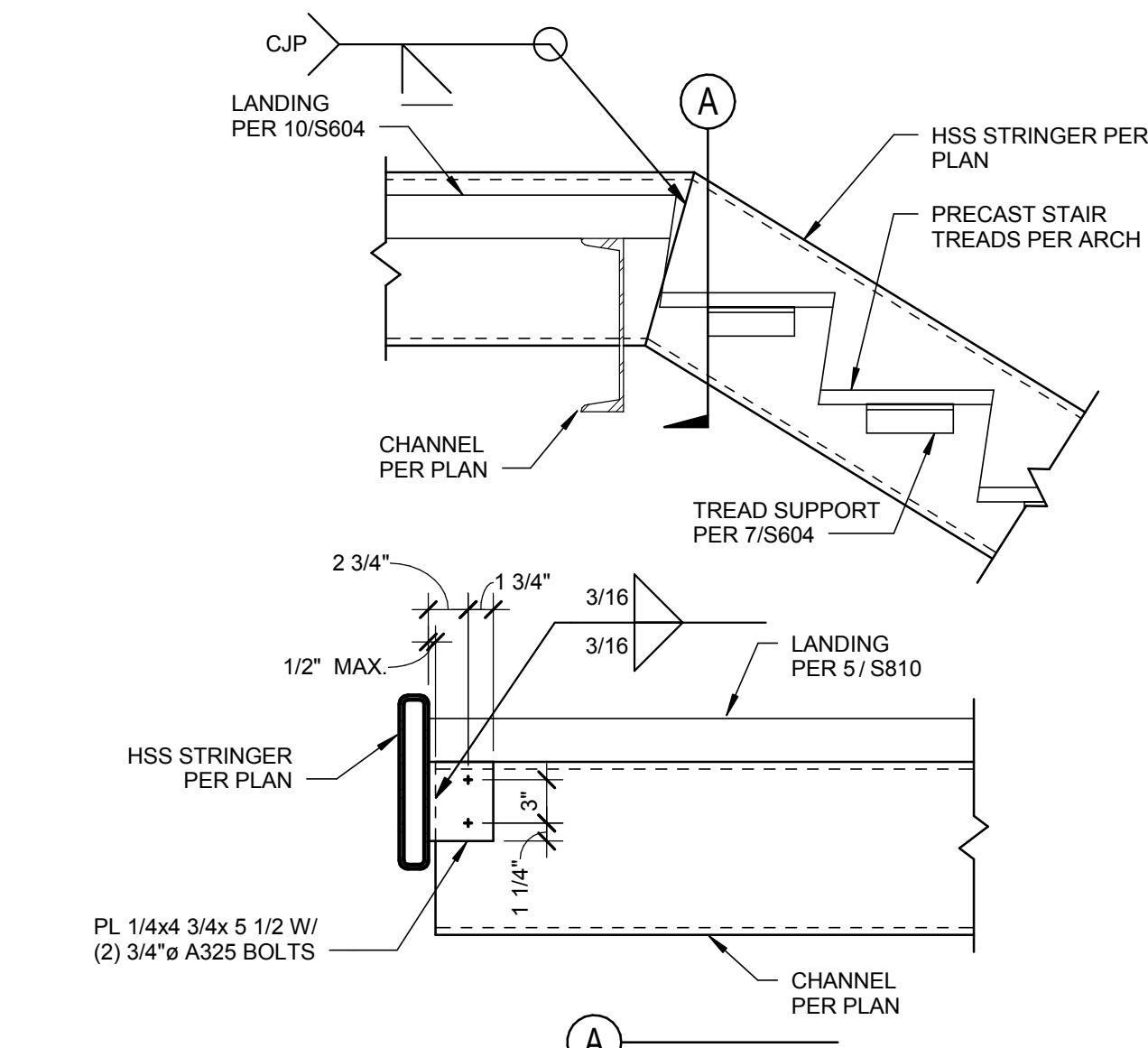
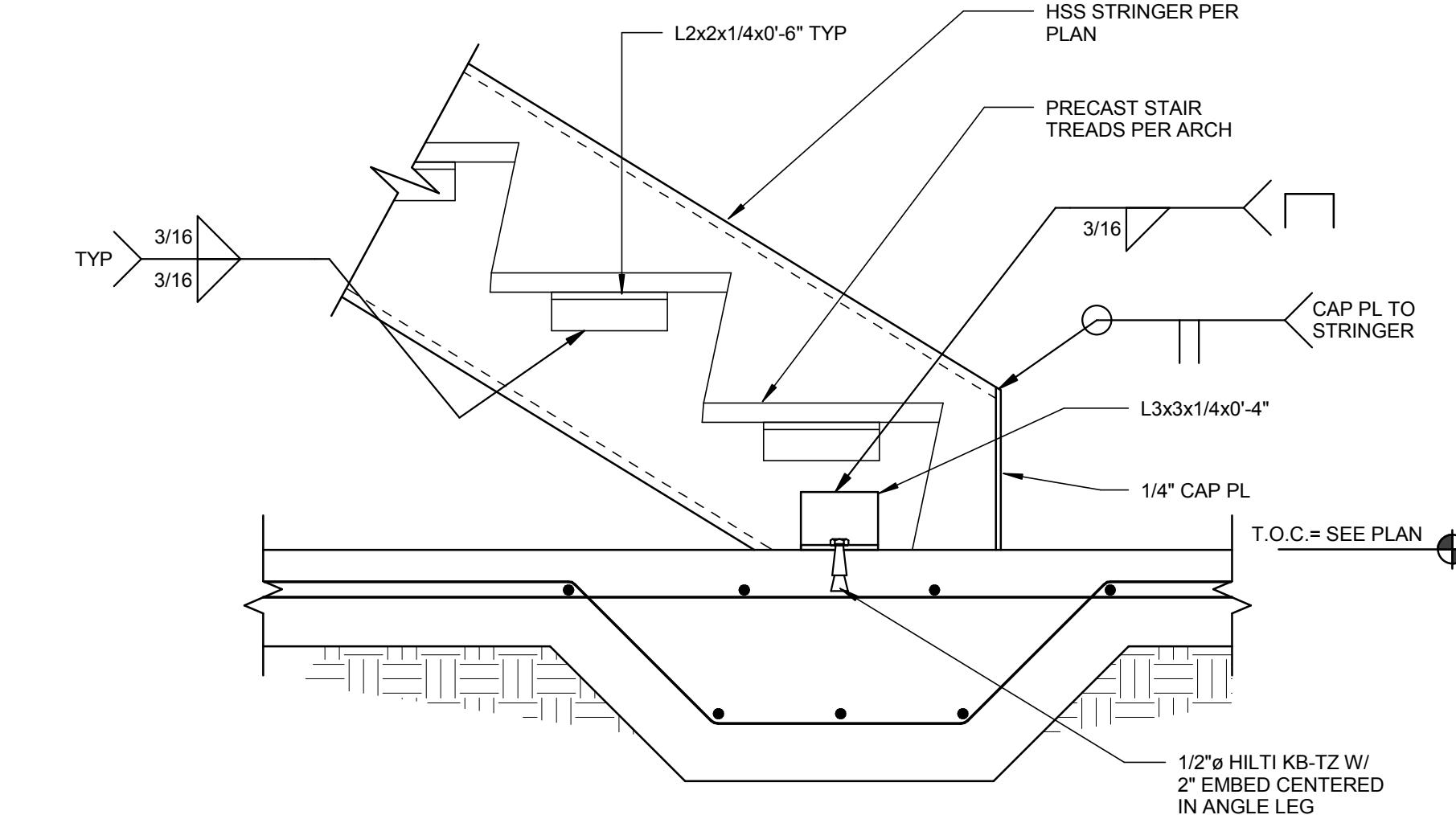
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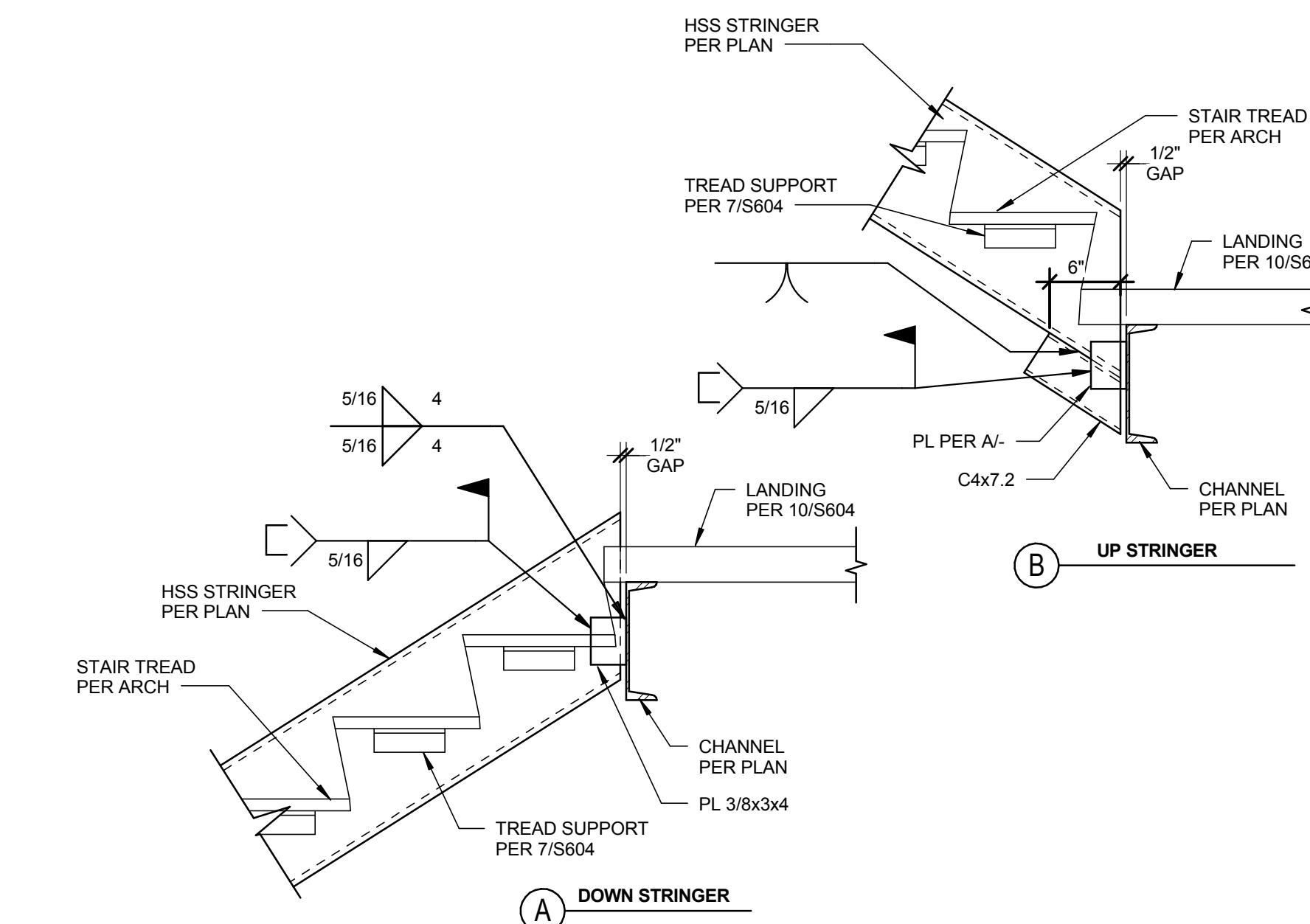
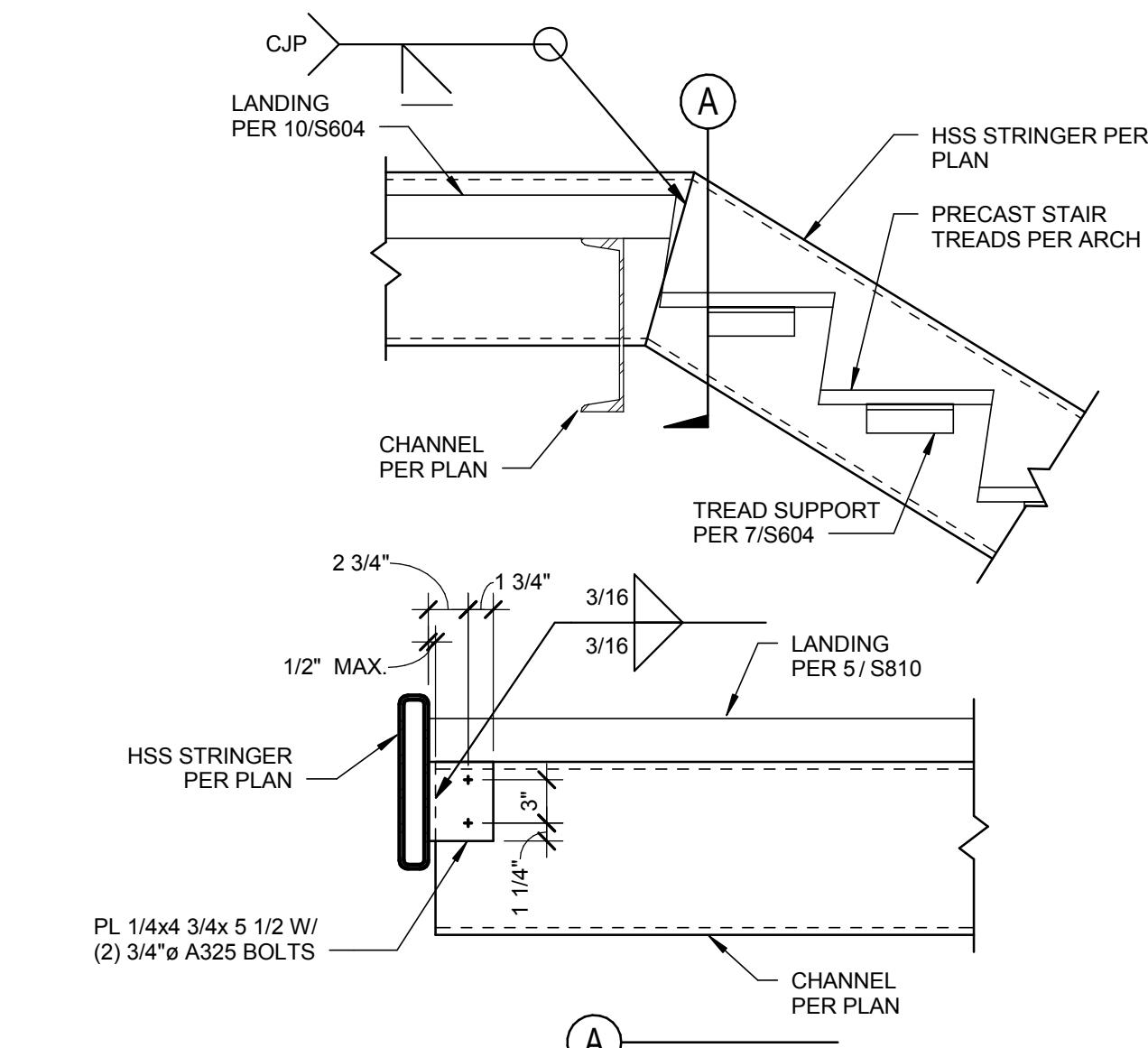
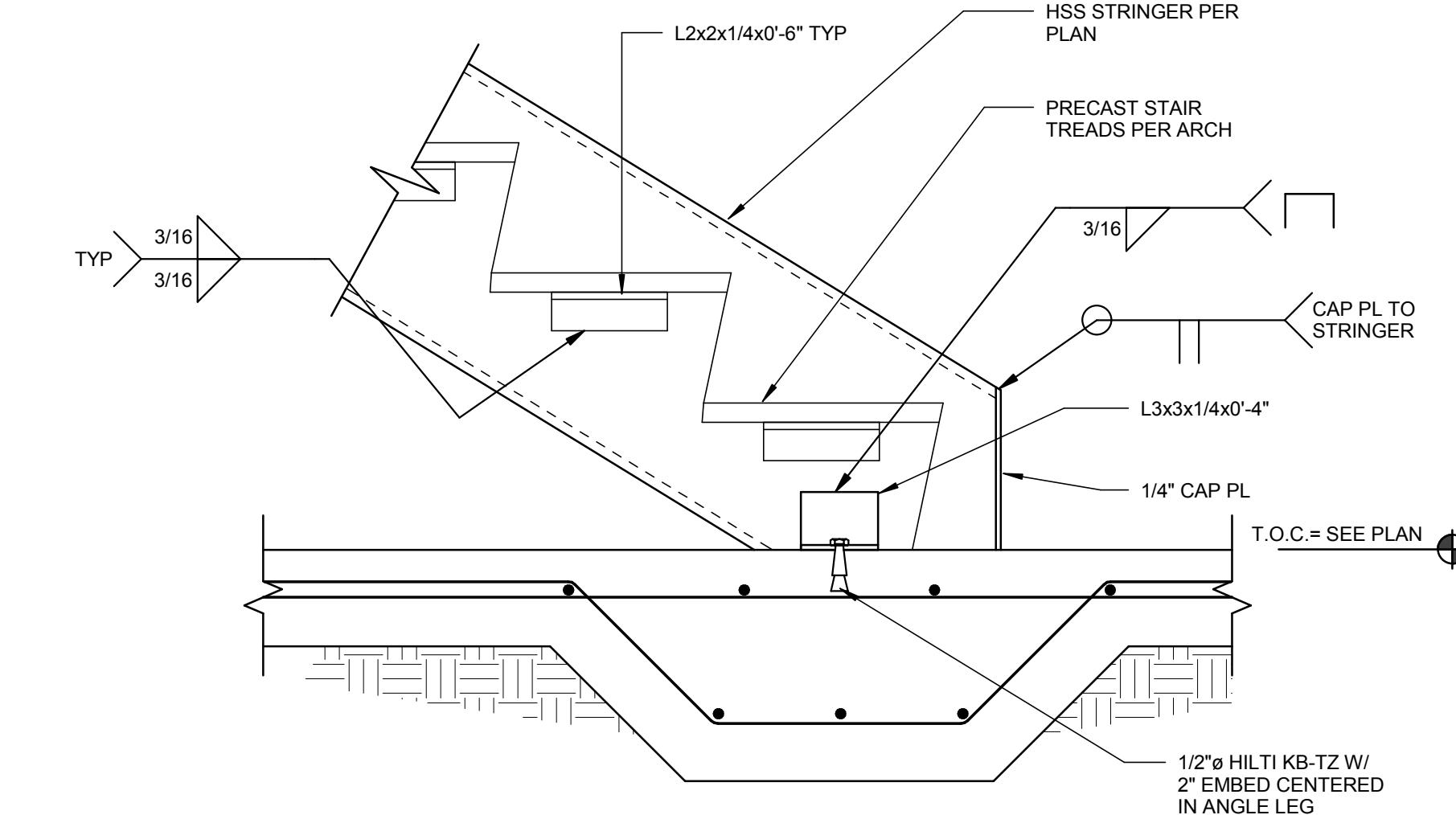
3 STRINGER CONNECTION DETAIL

SCALE: 1" = 1'-0"

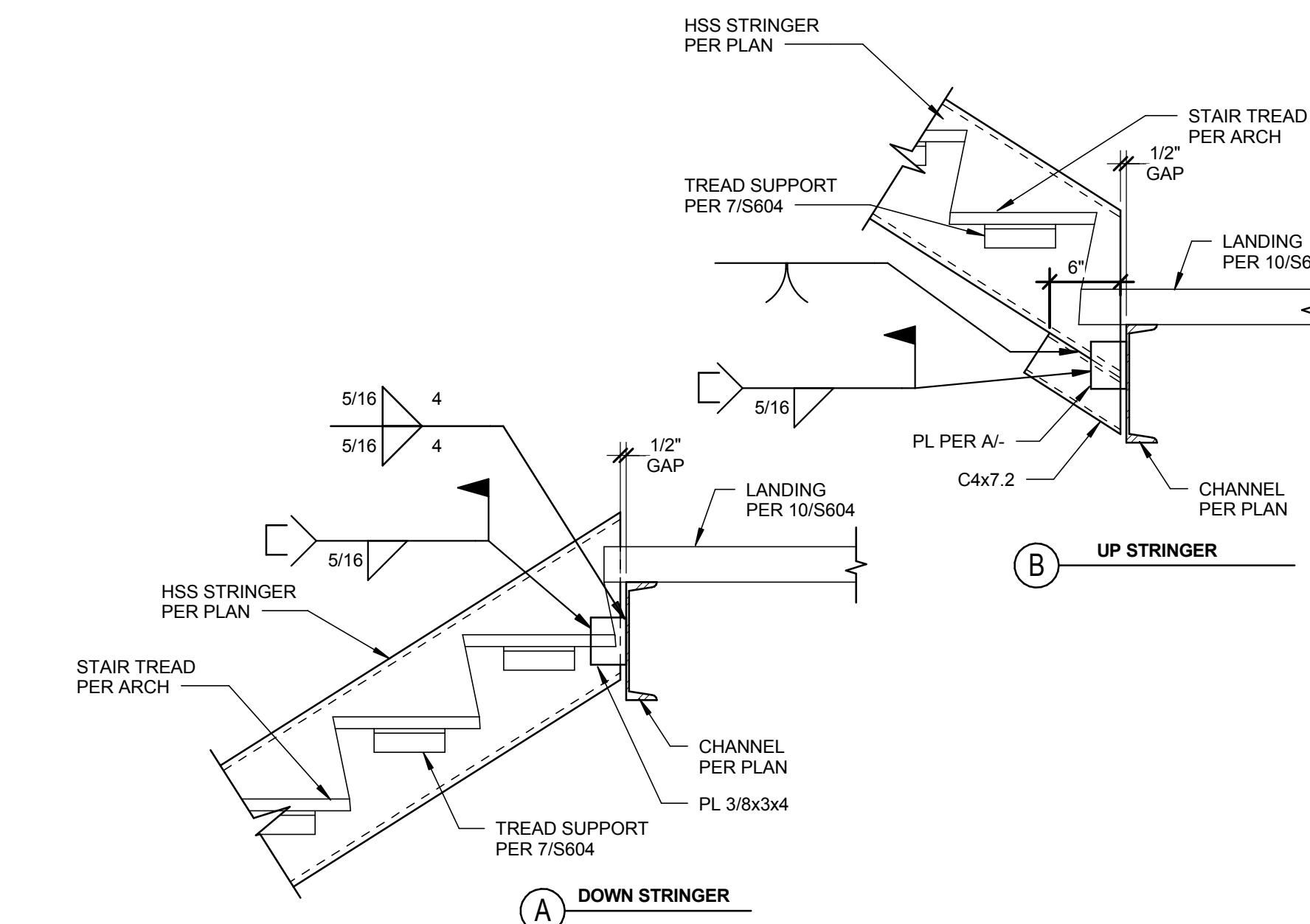
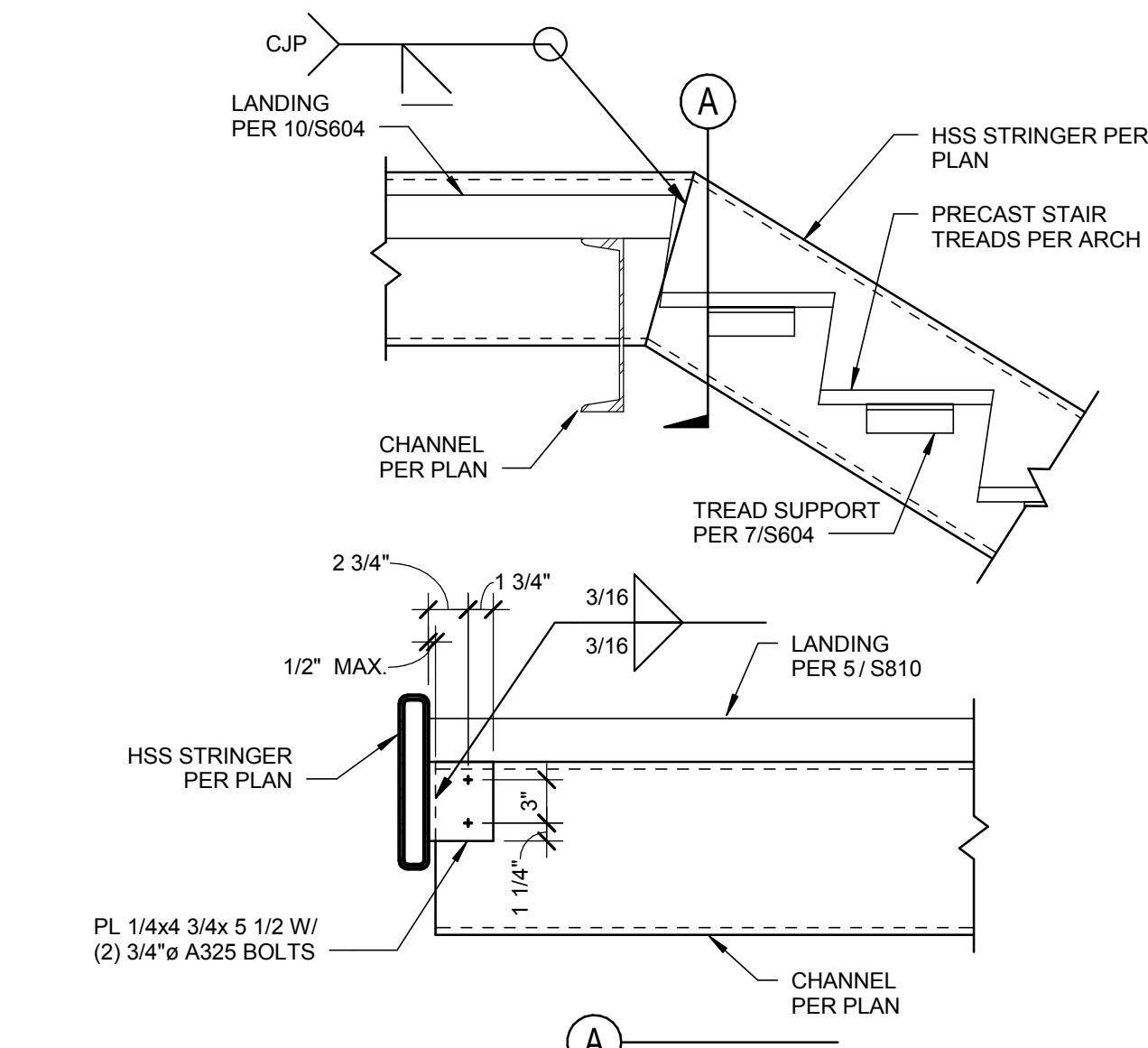
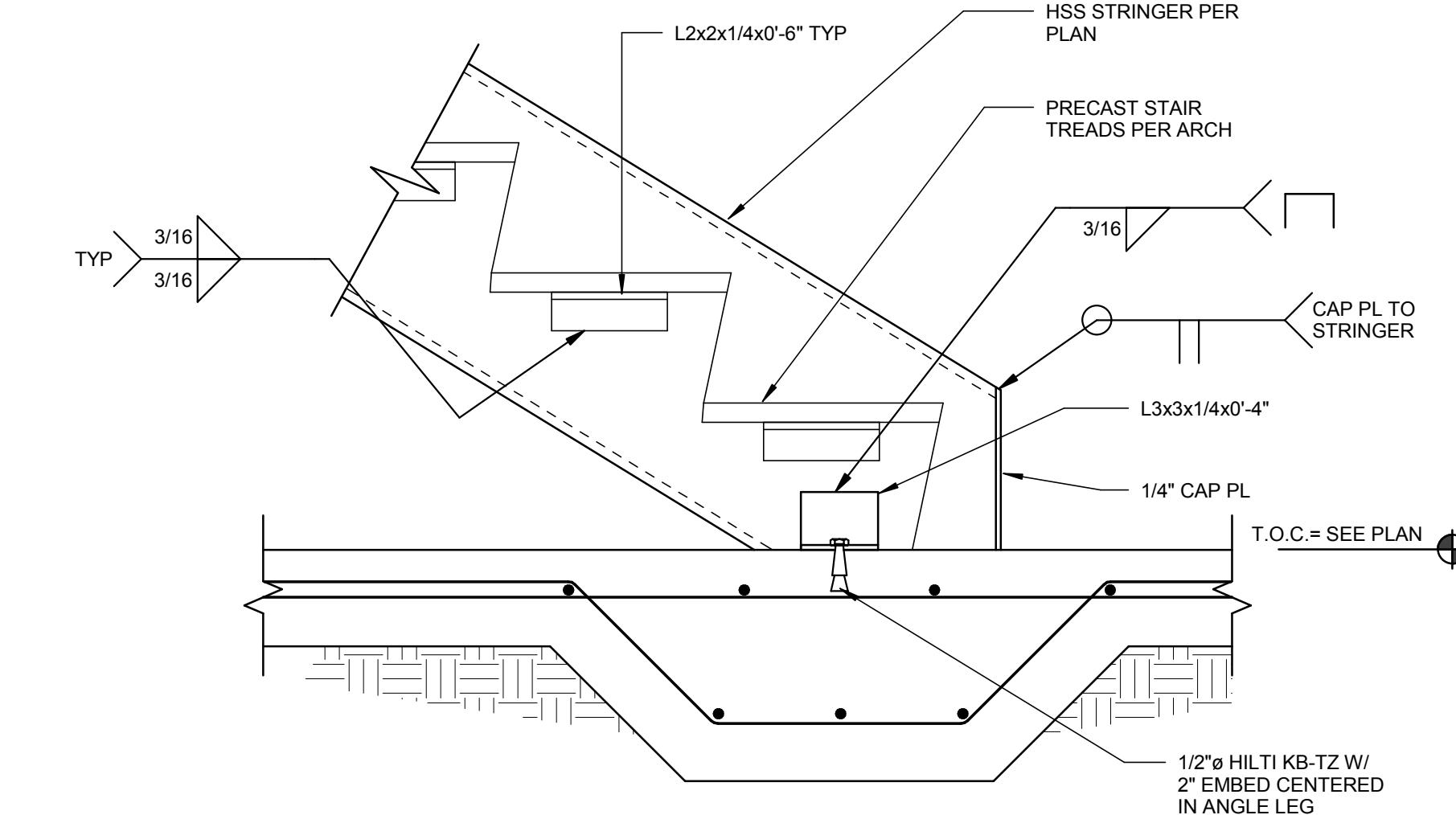
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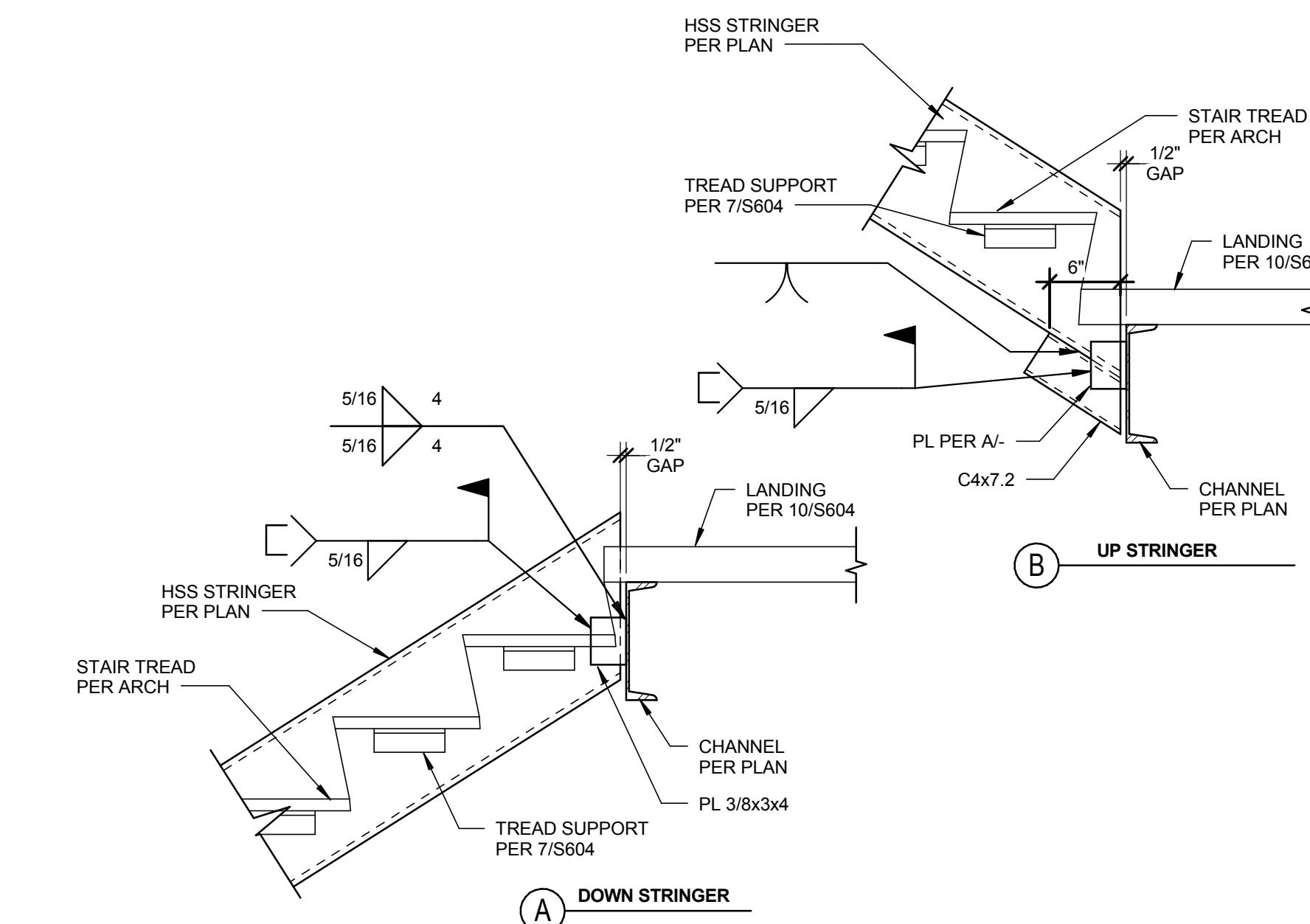
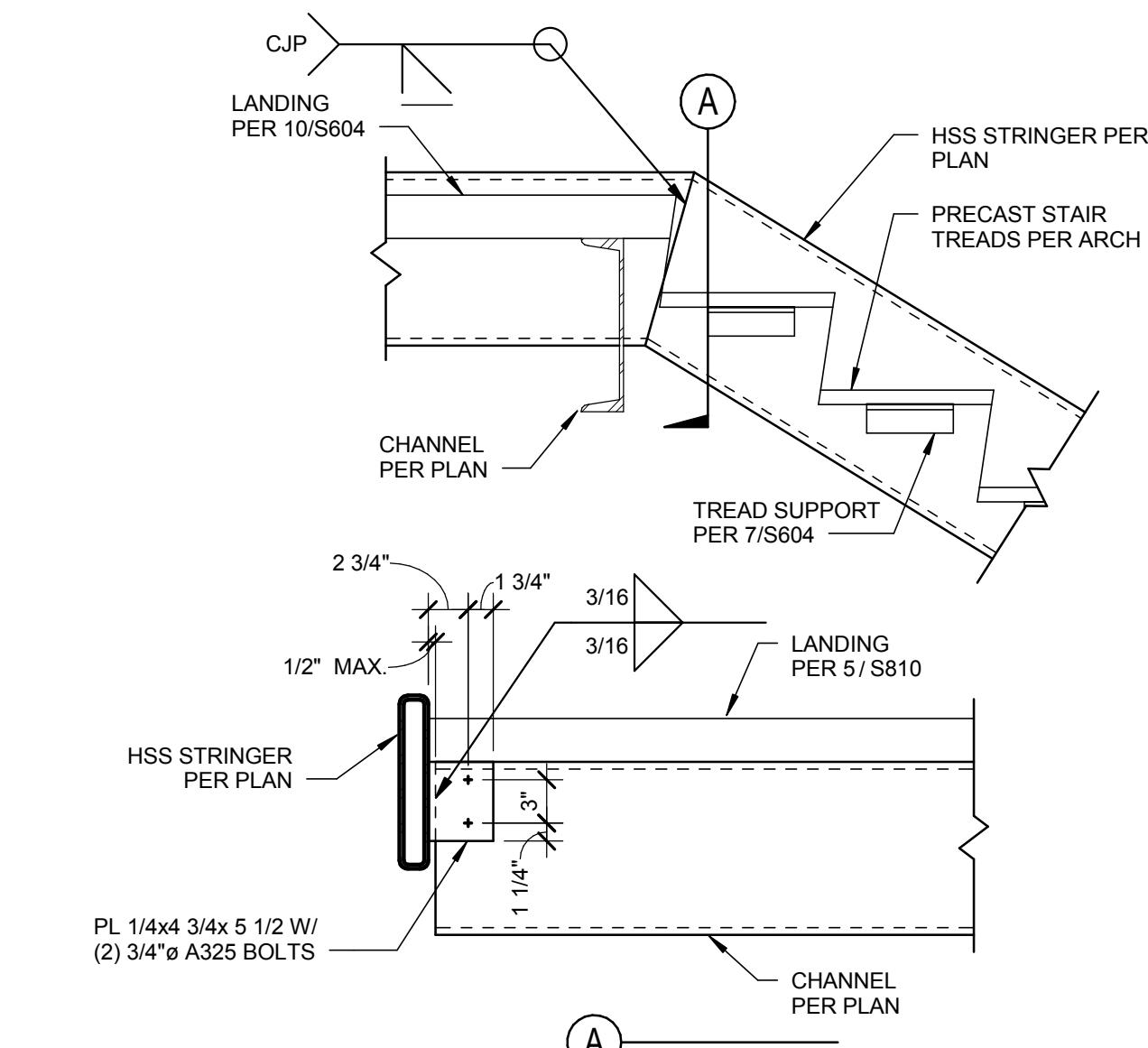
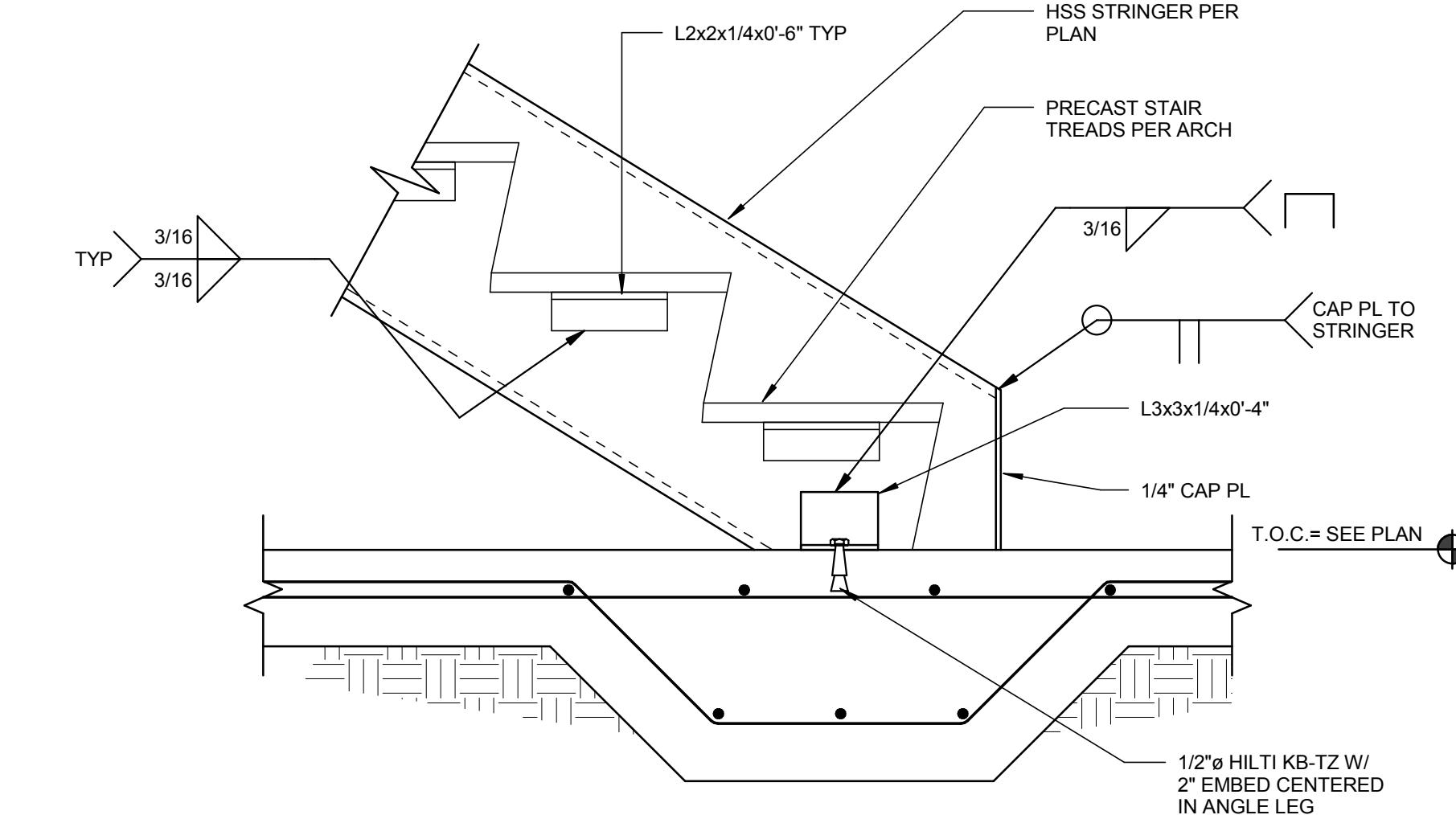
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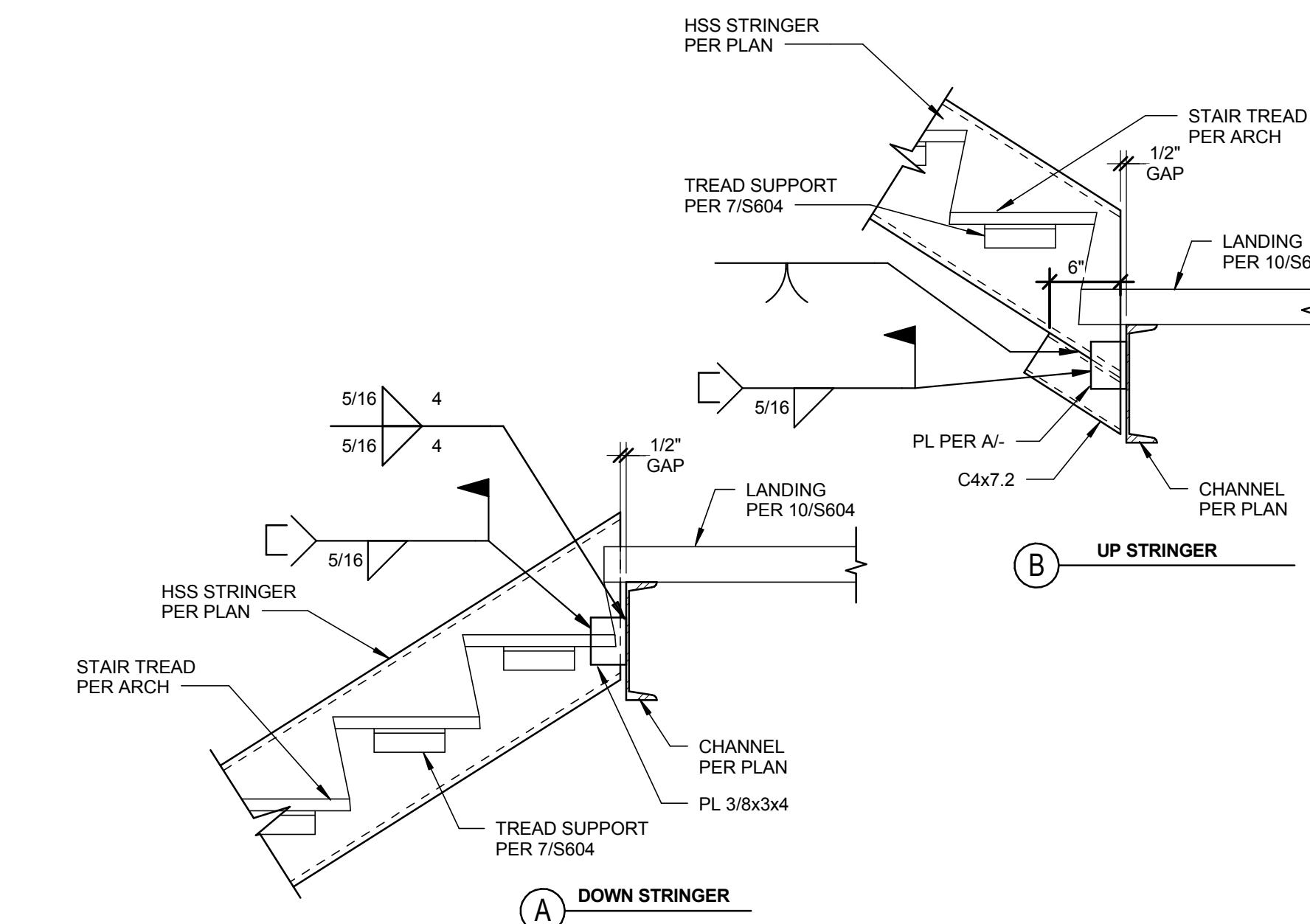
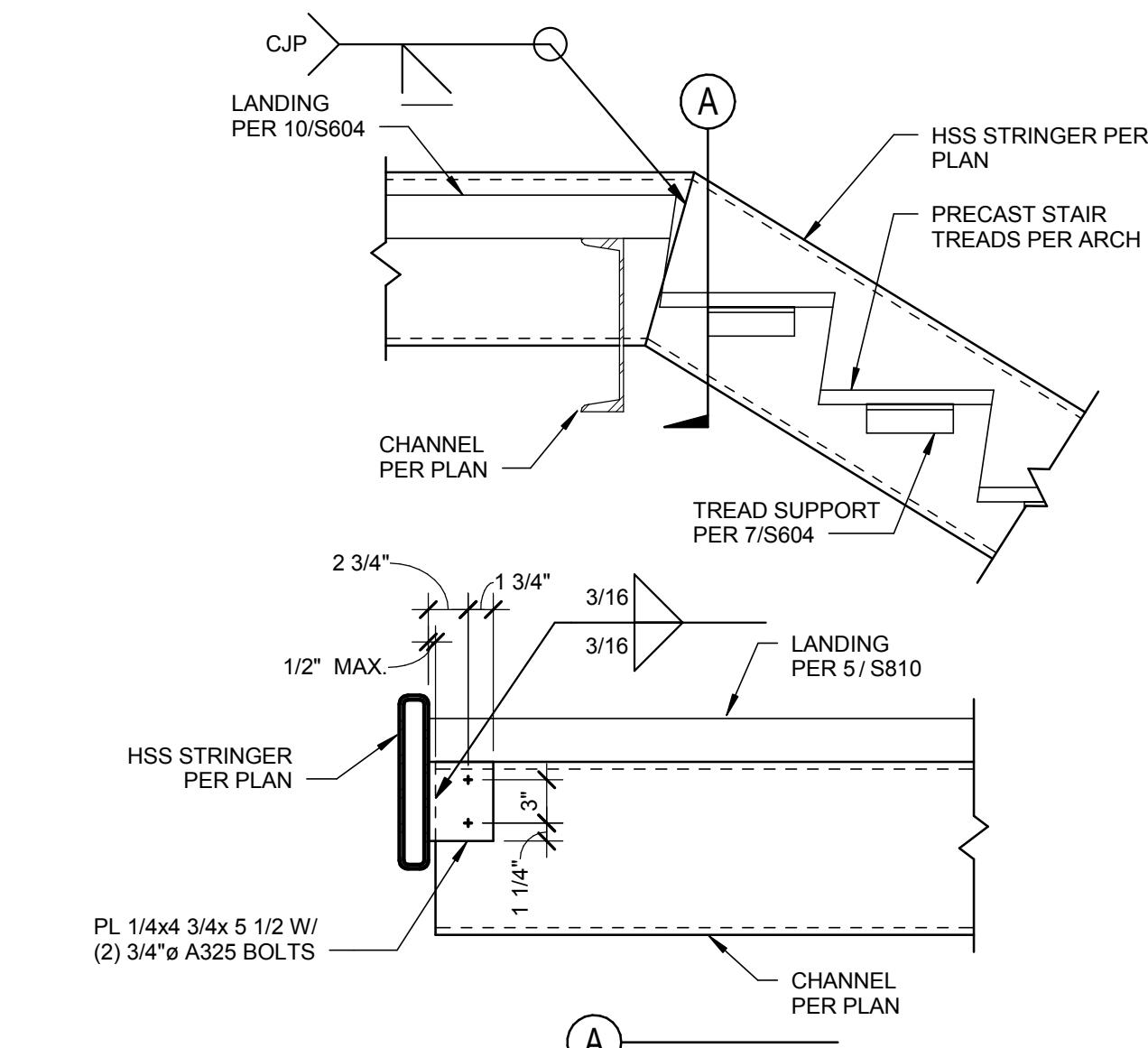
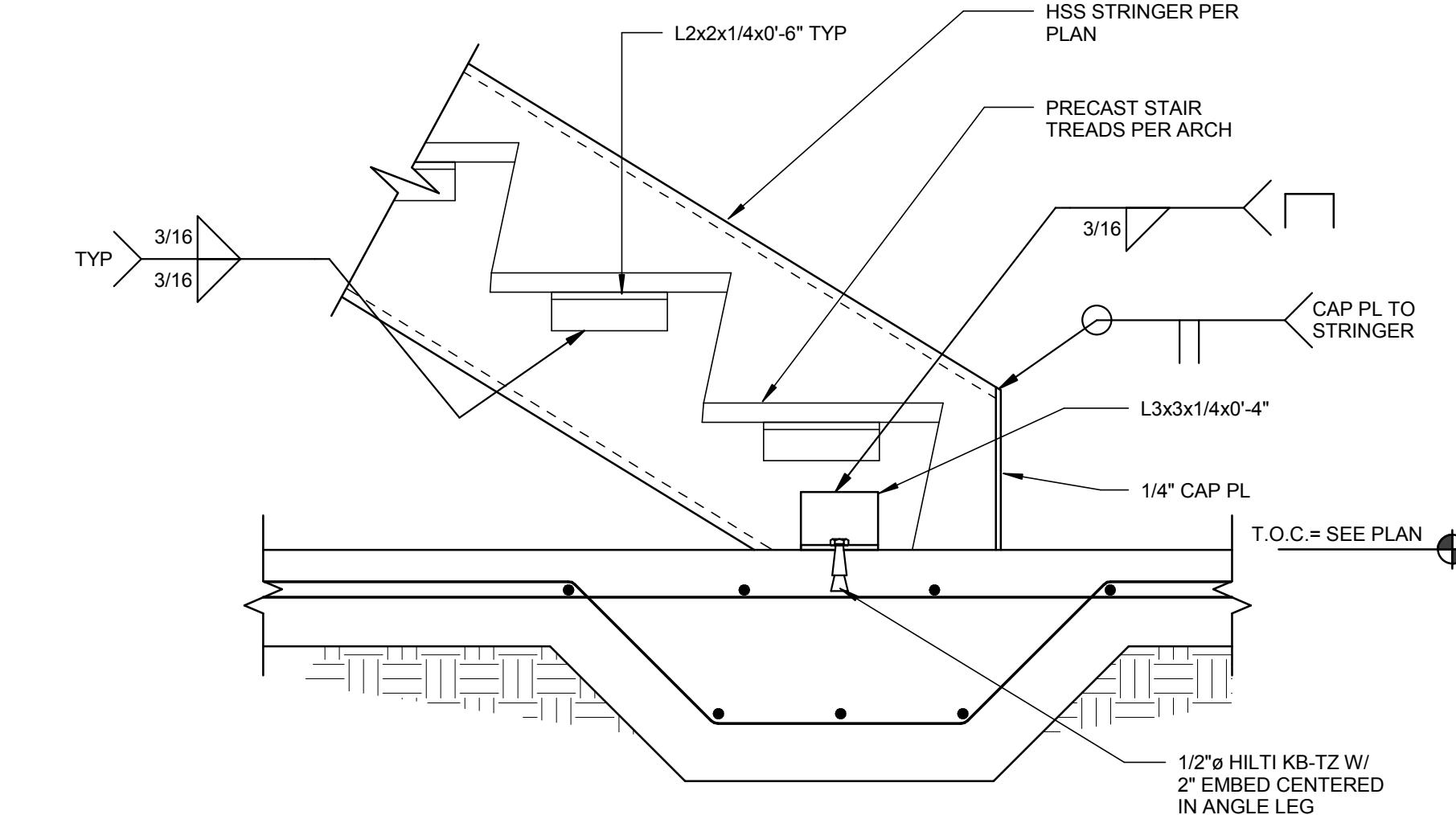
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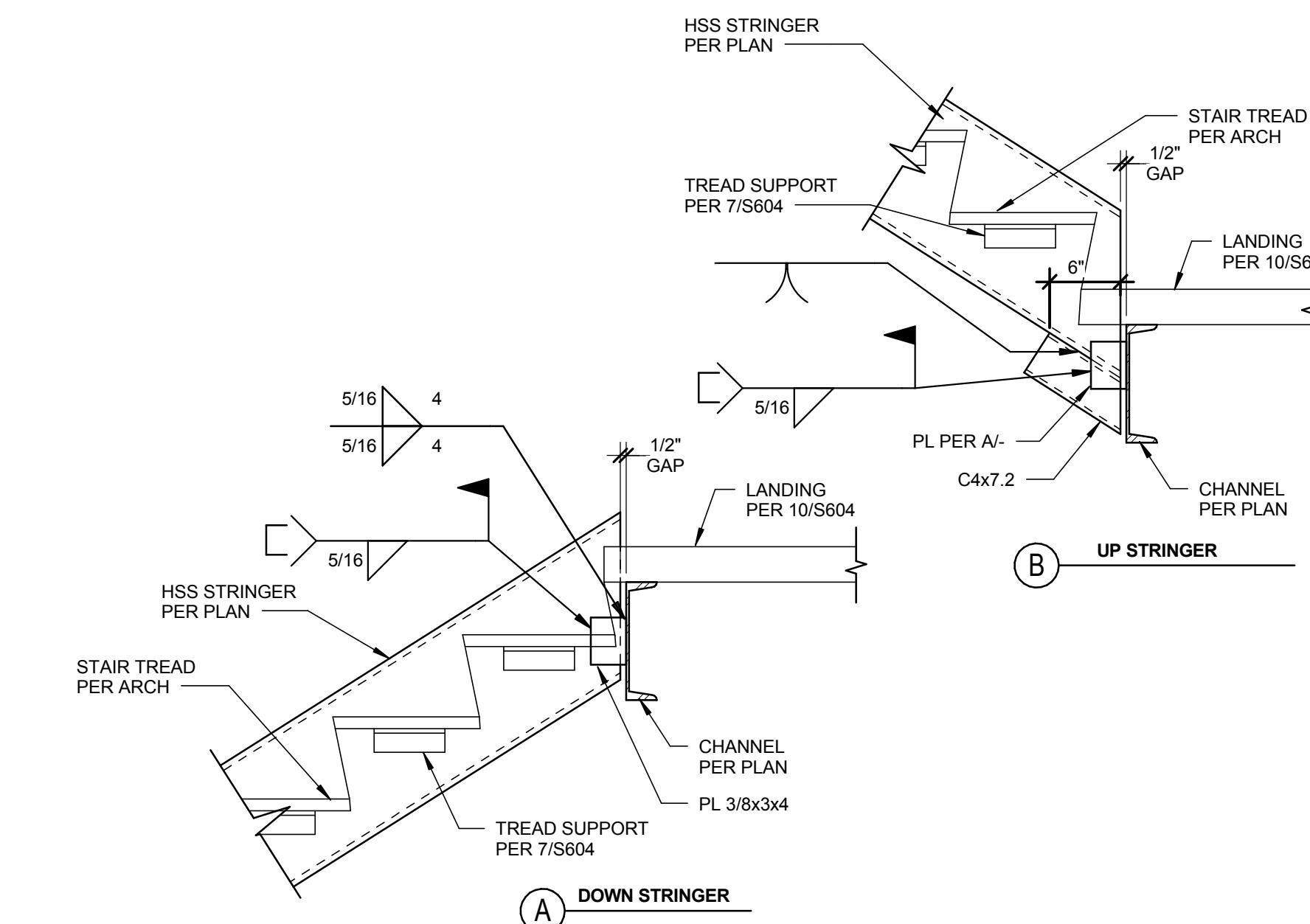
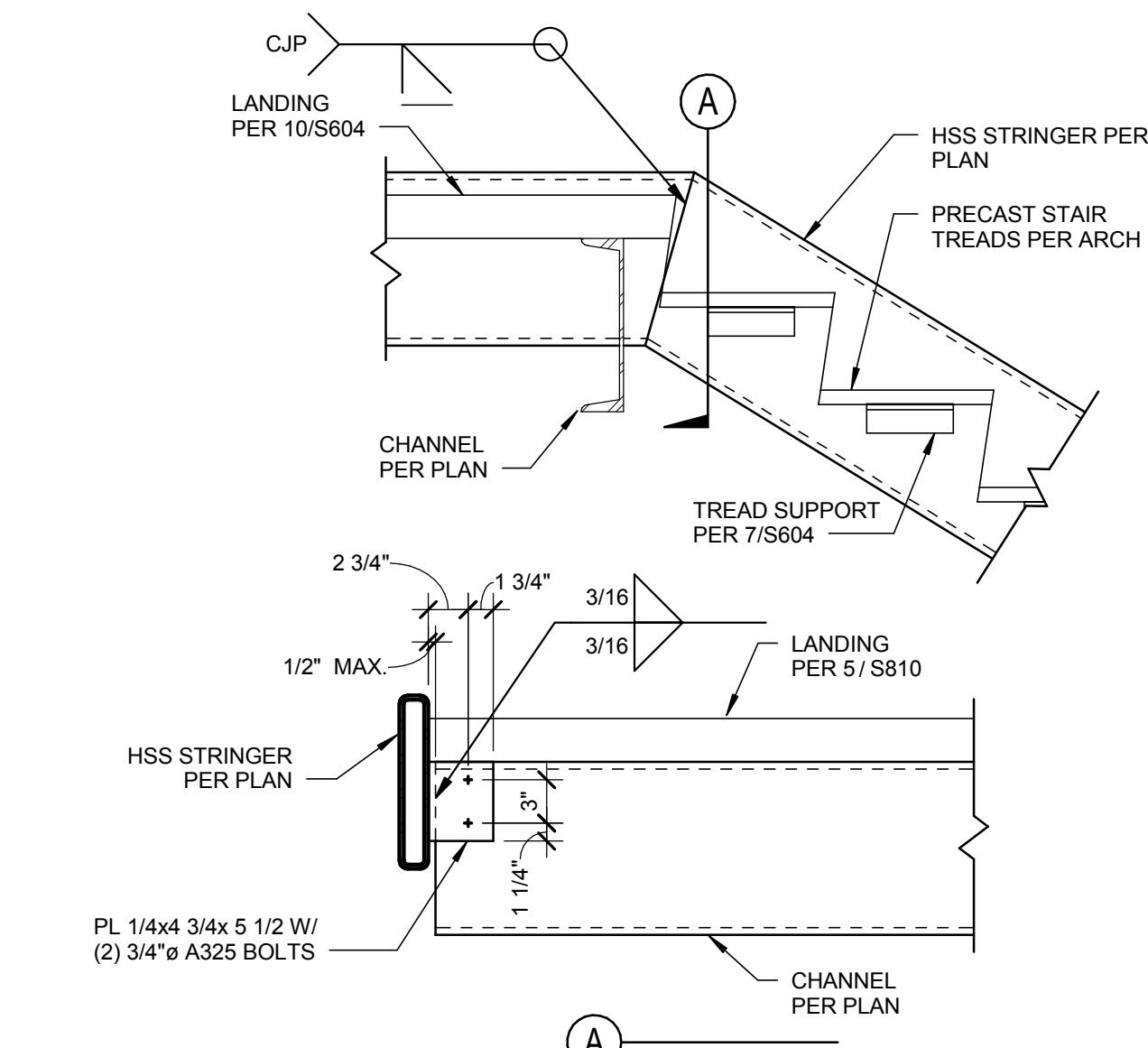
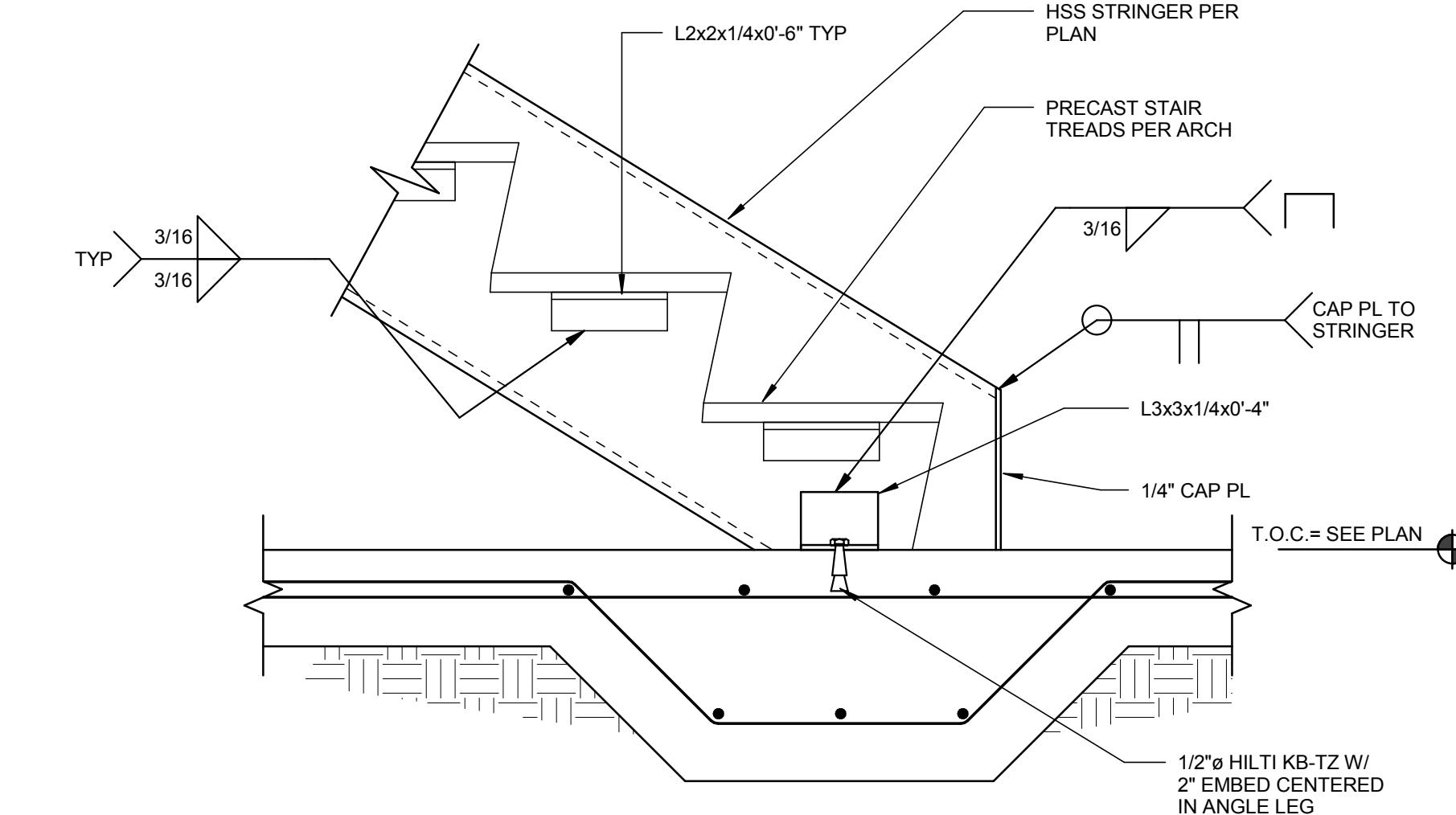
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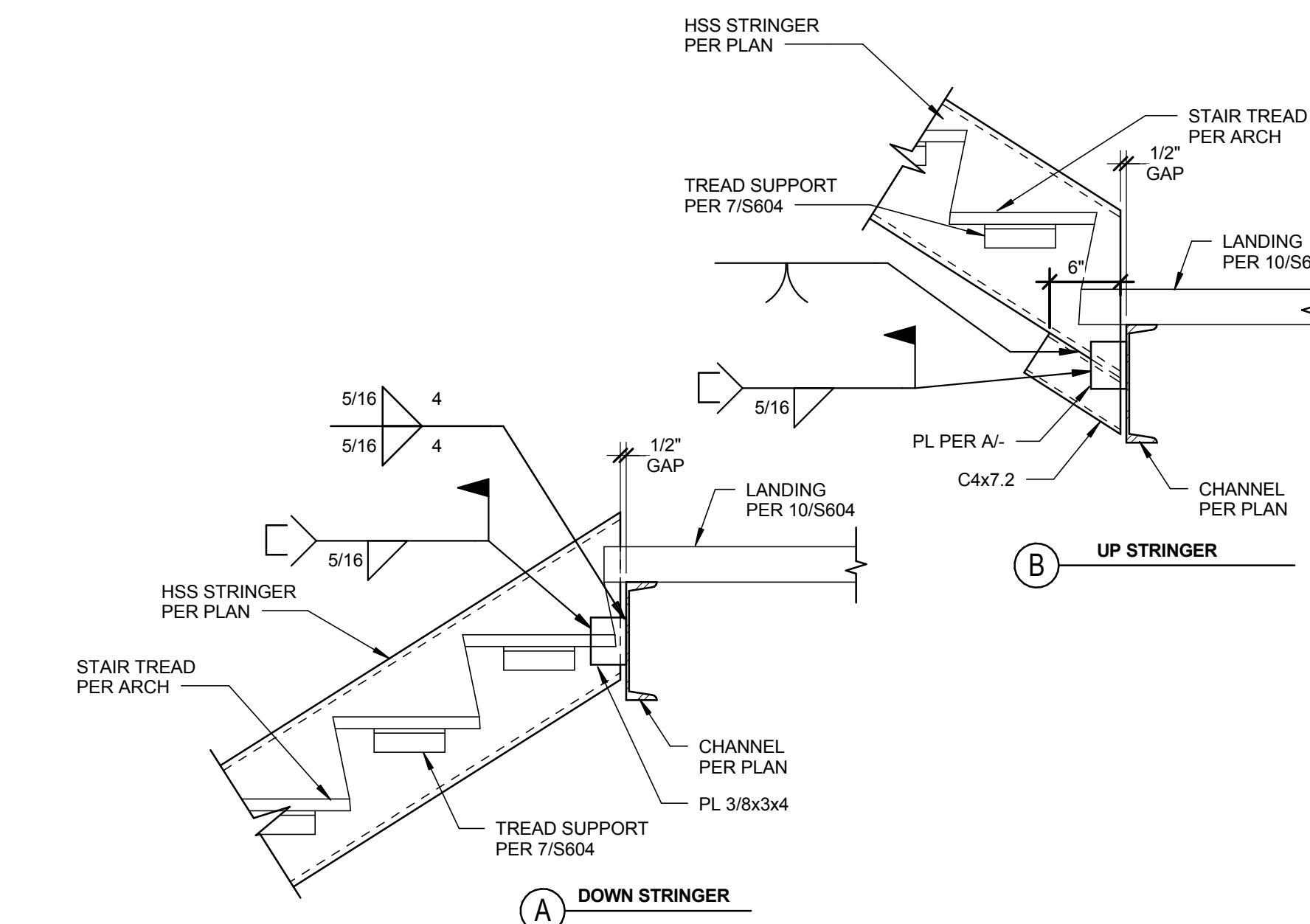
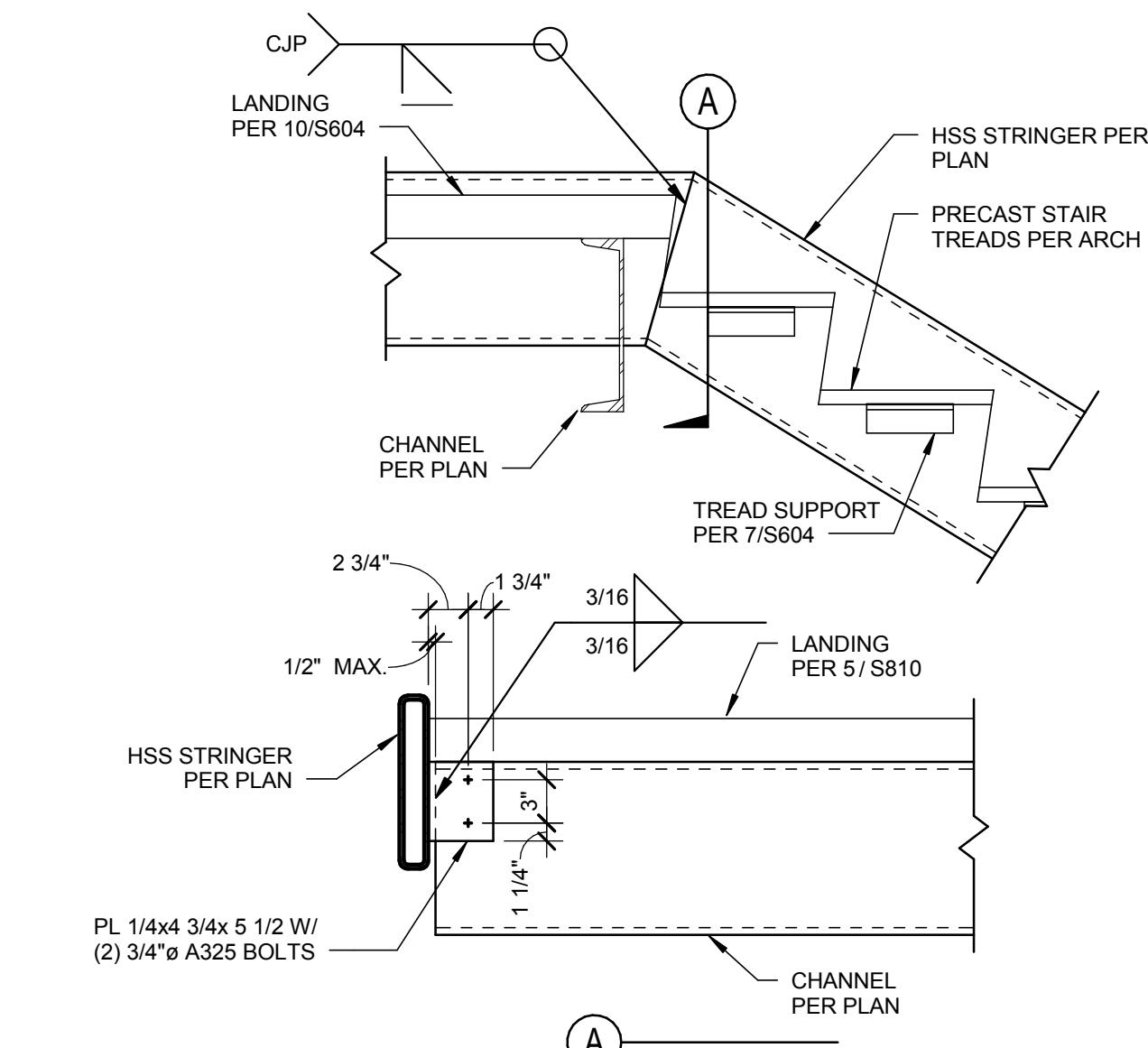
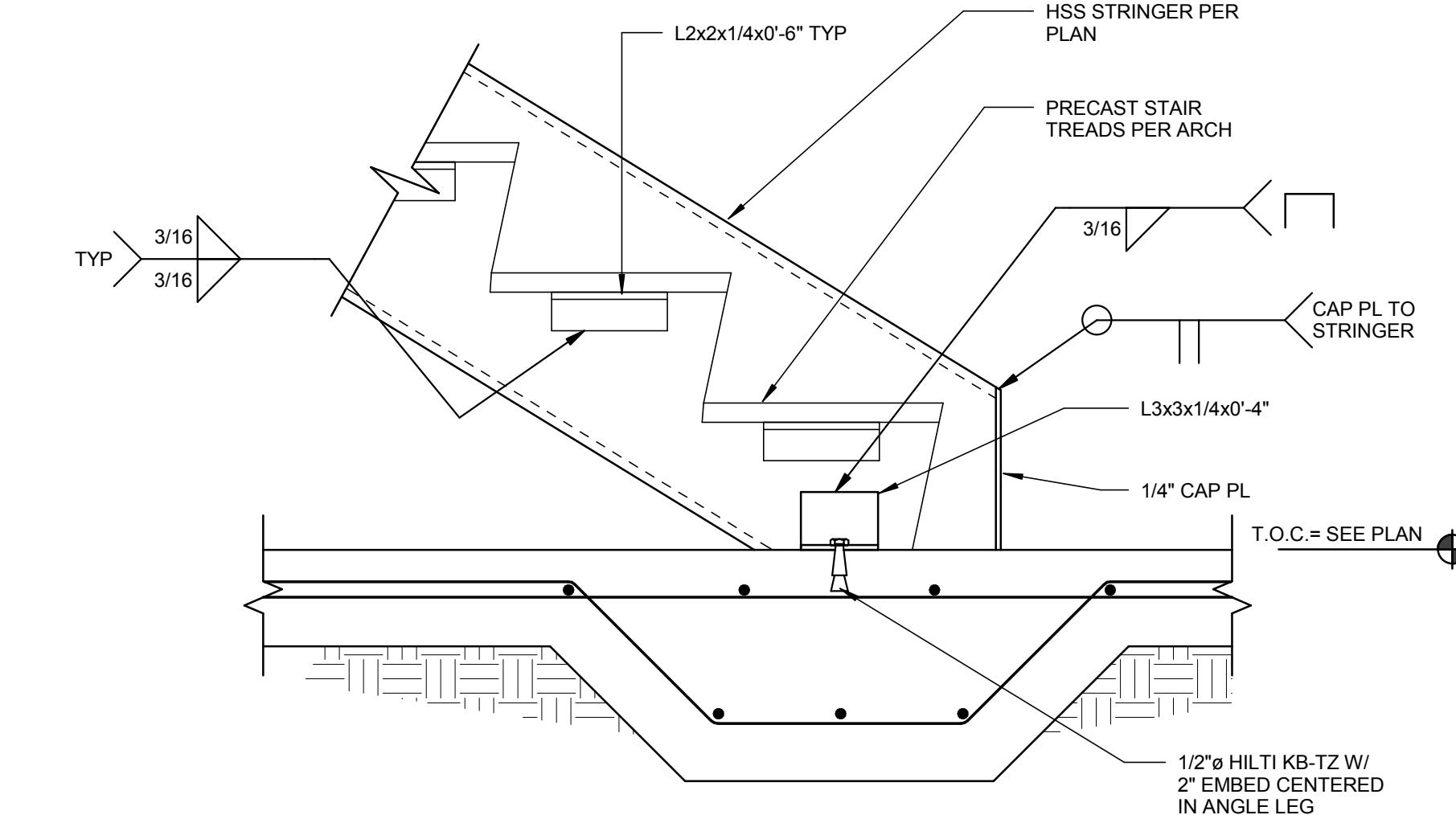
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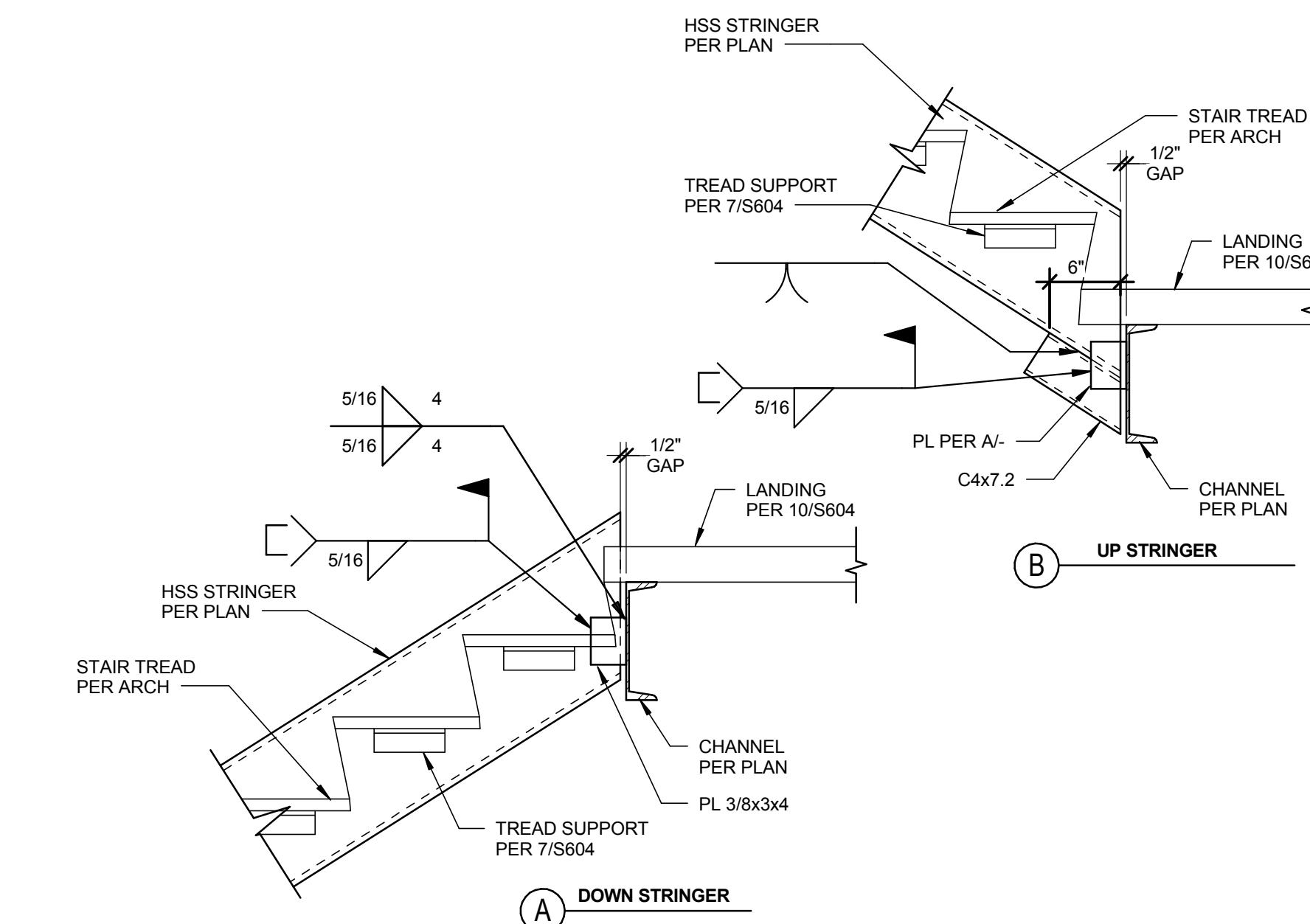
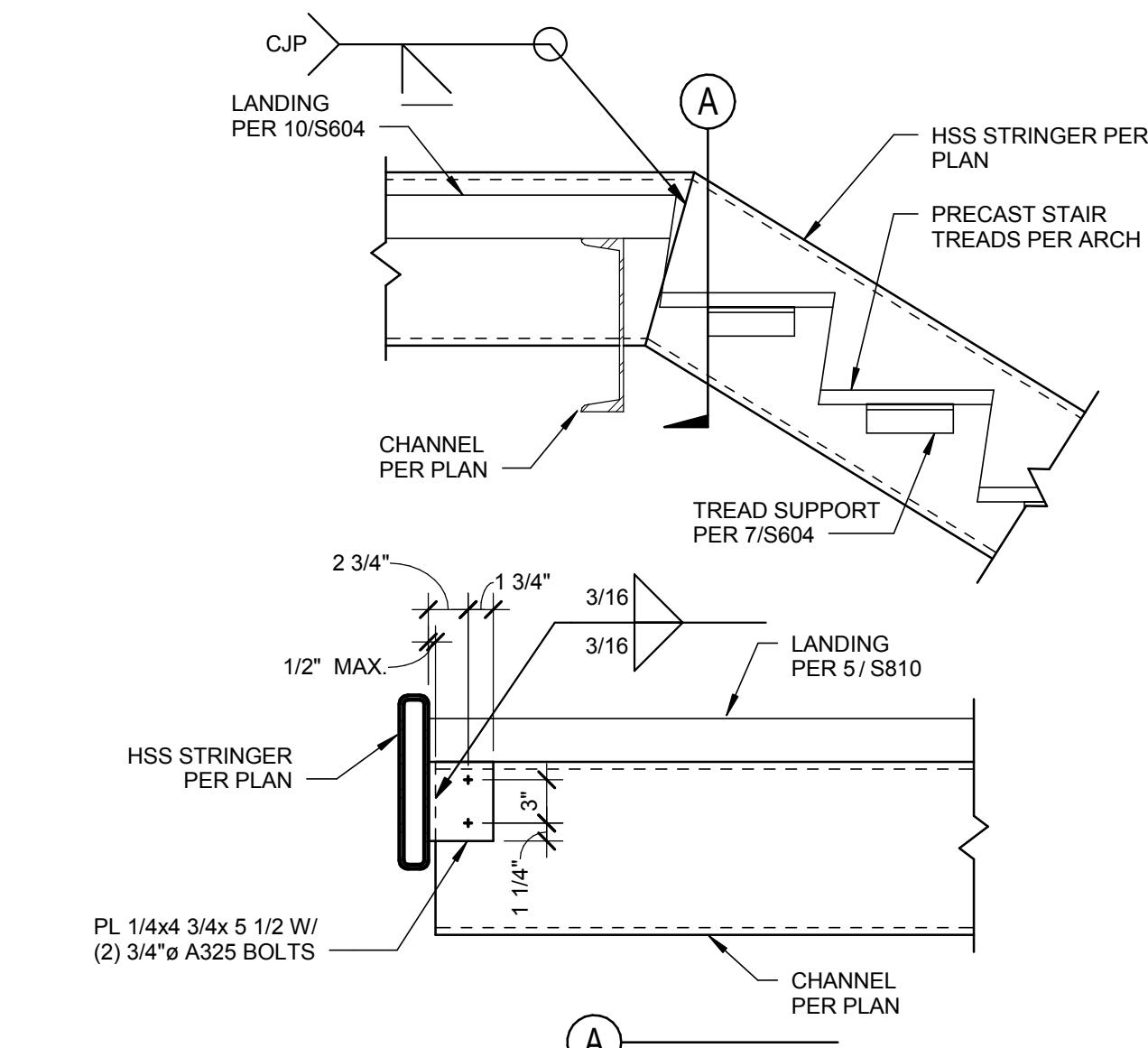
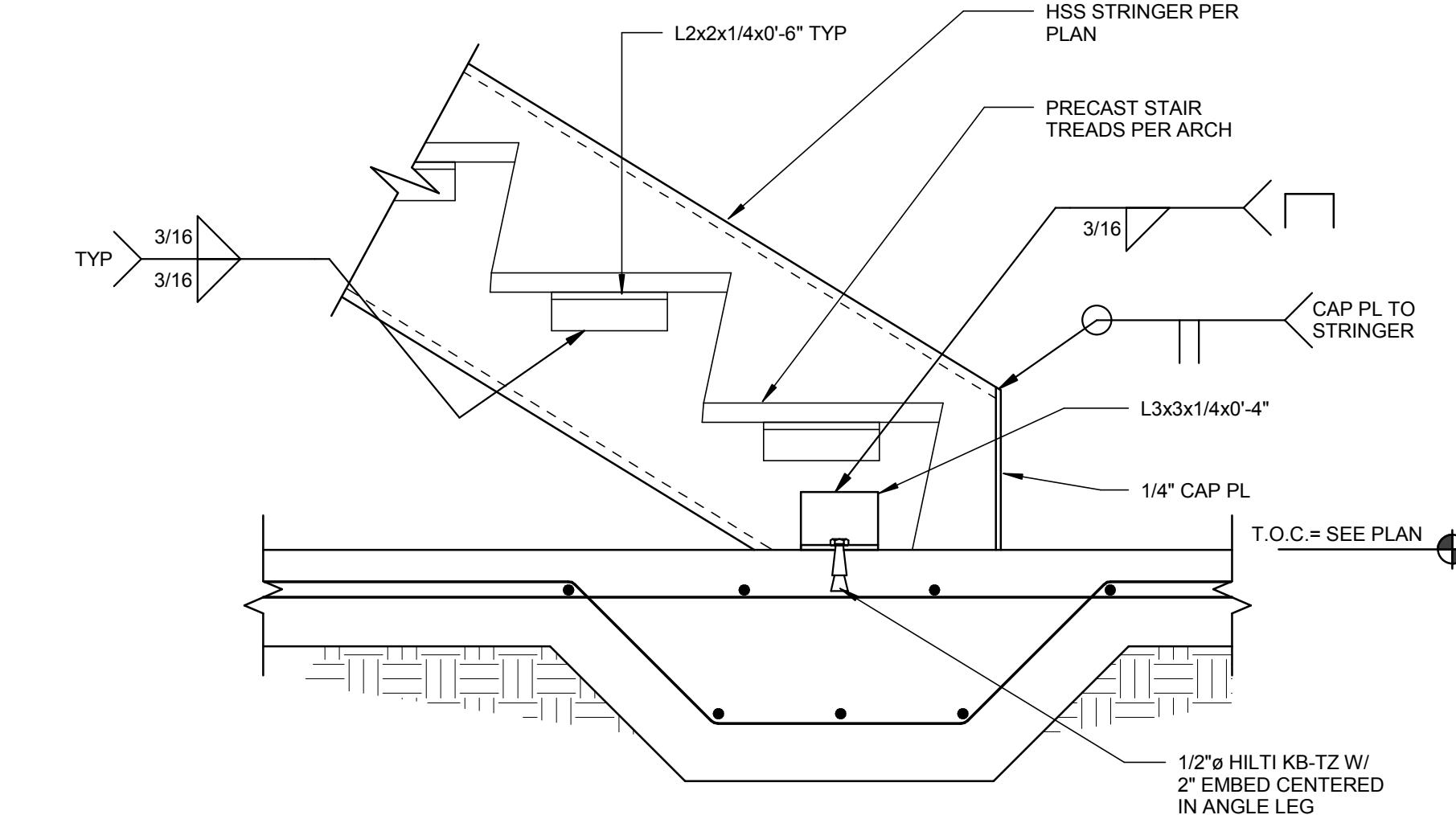
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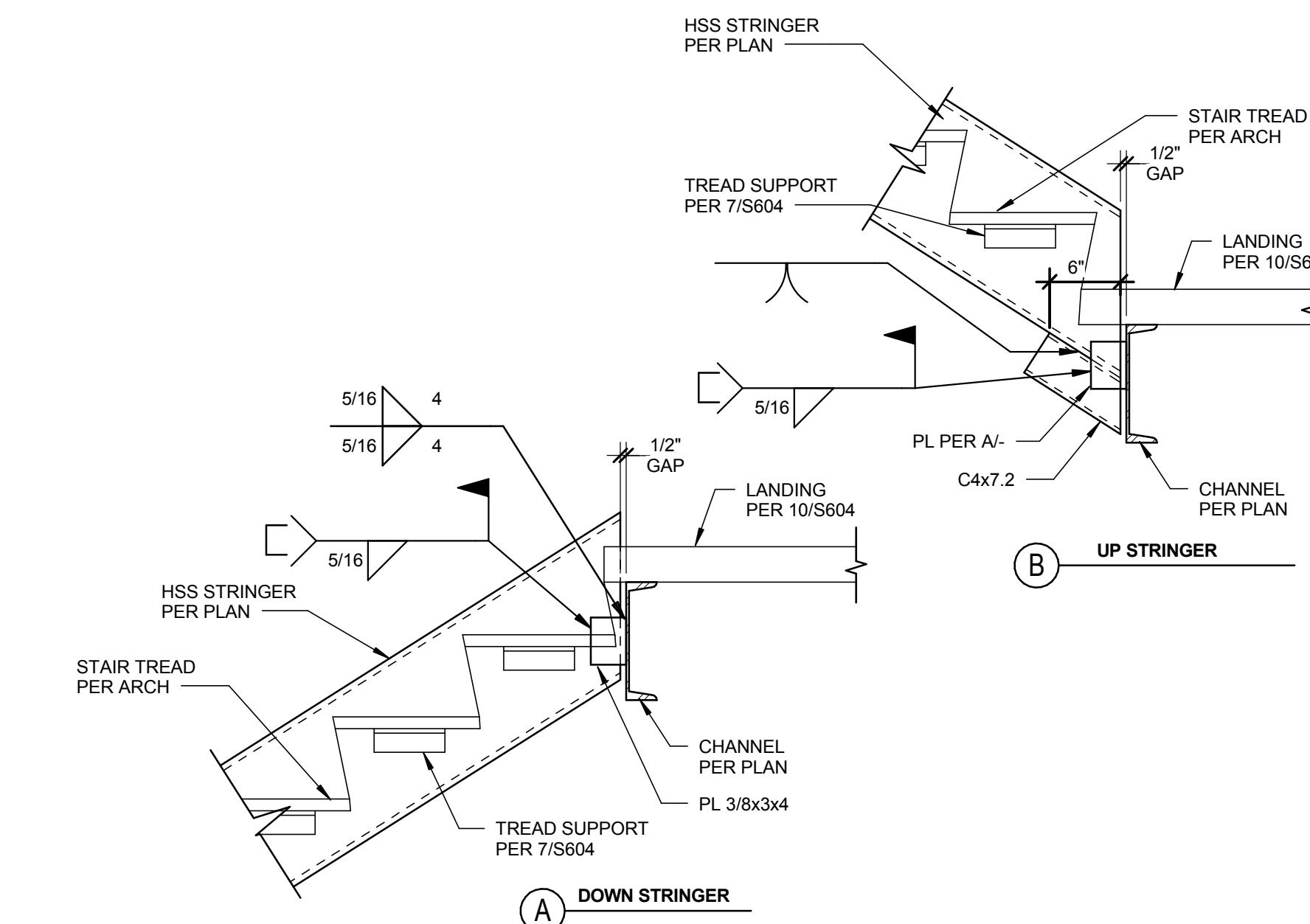
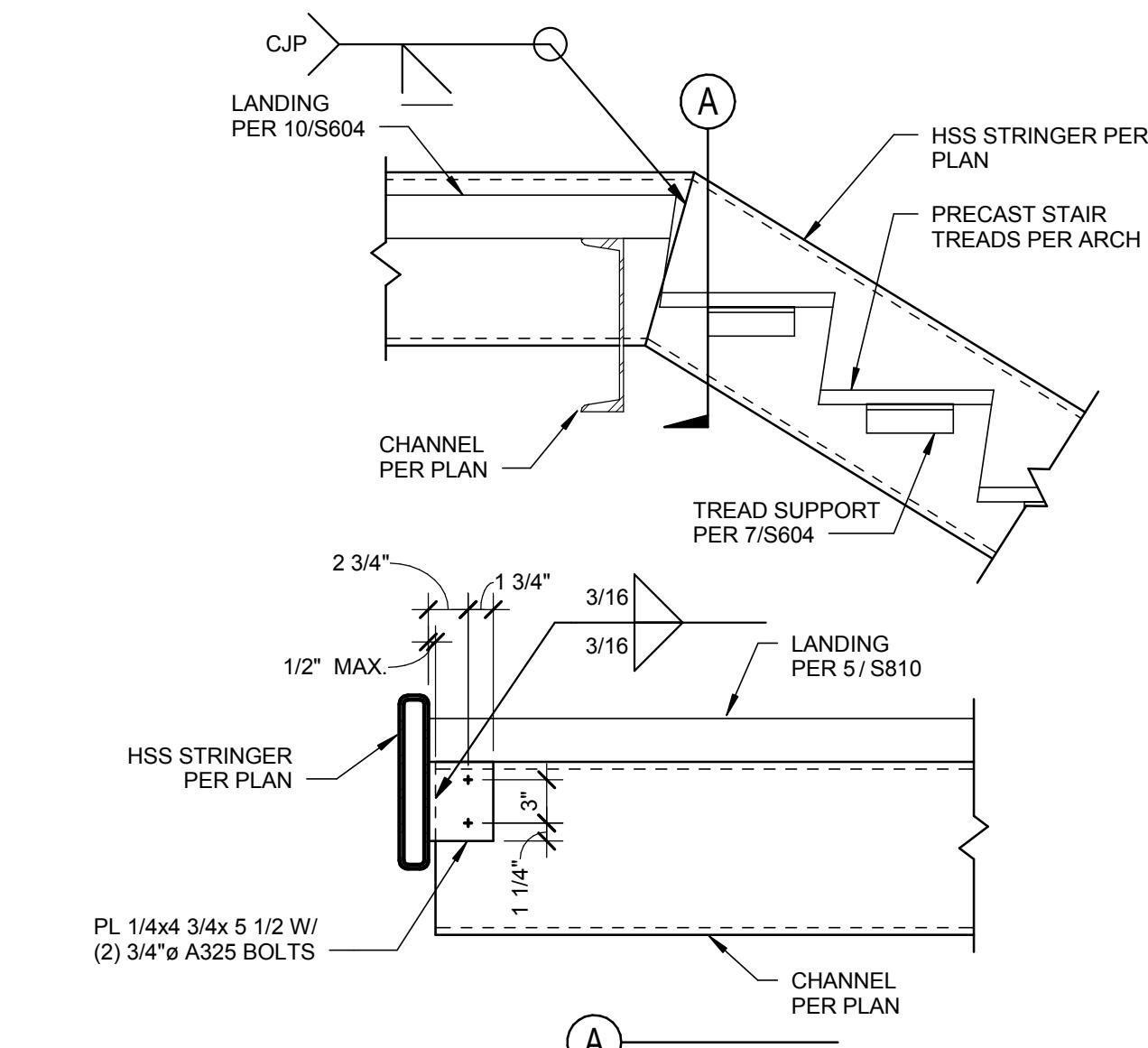
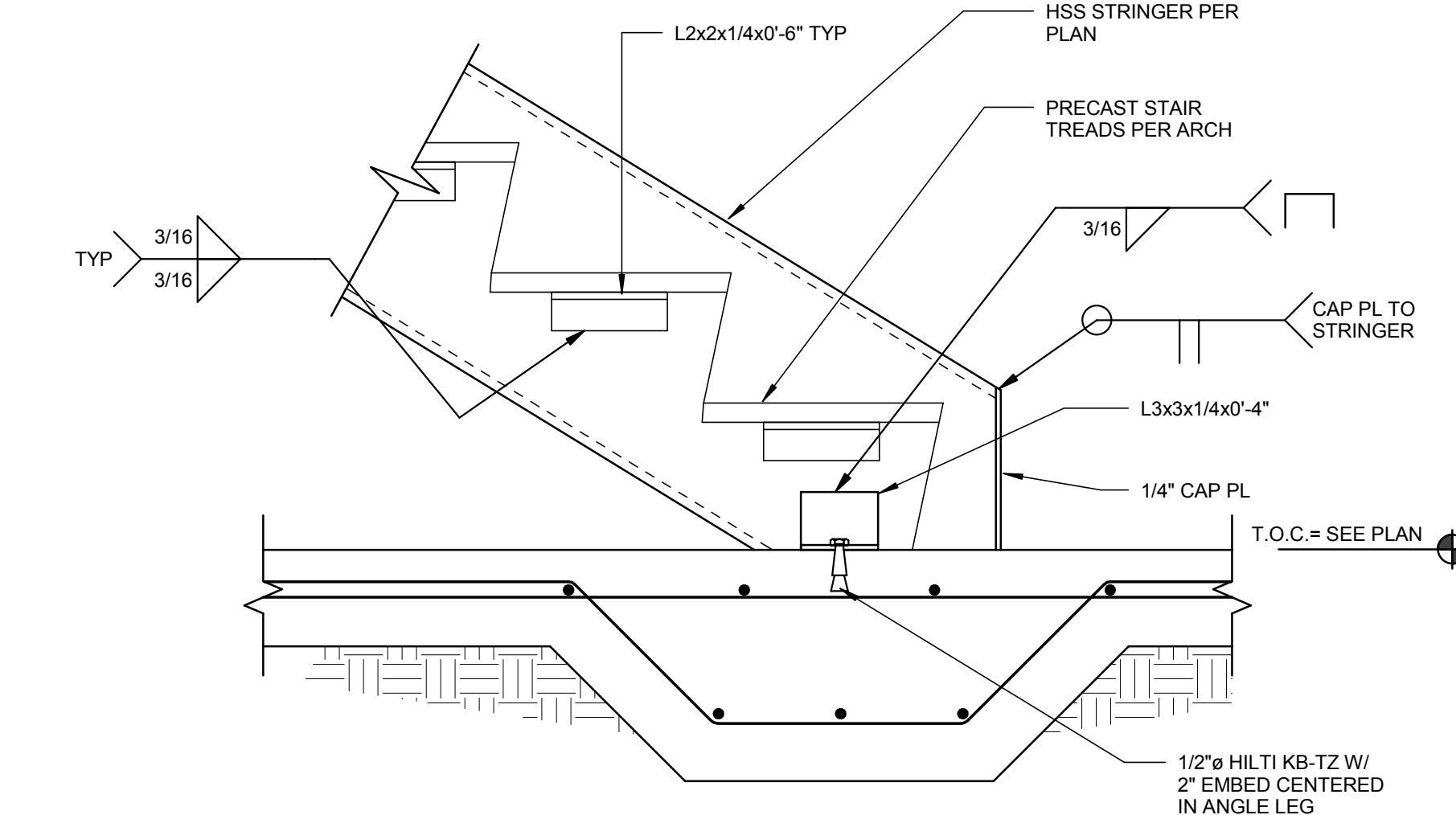
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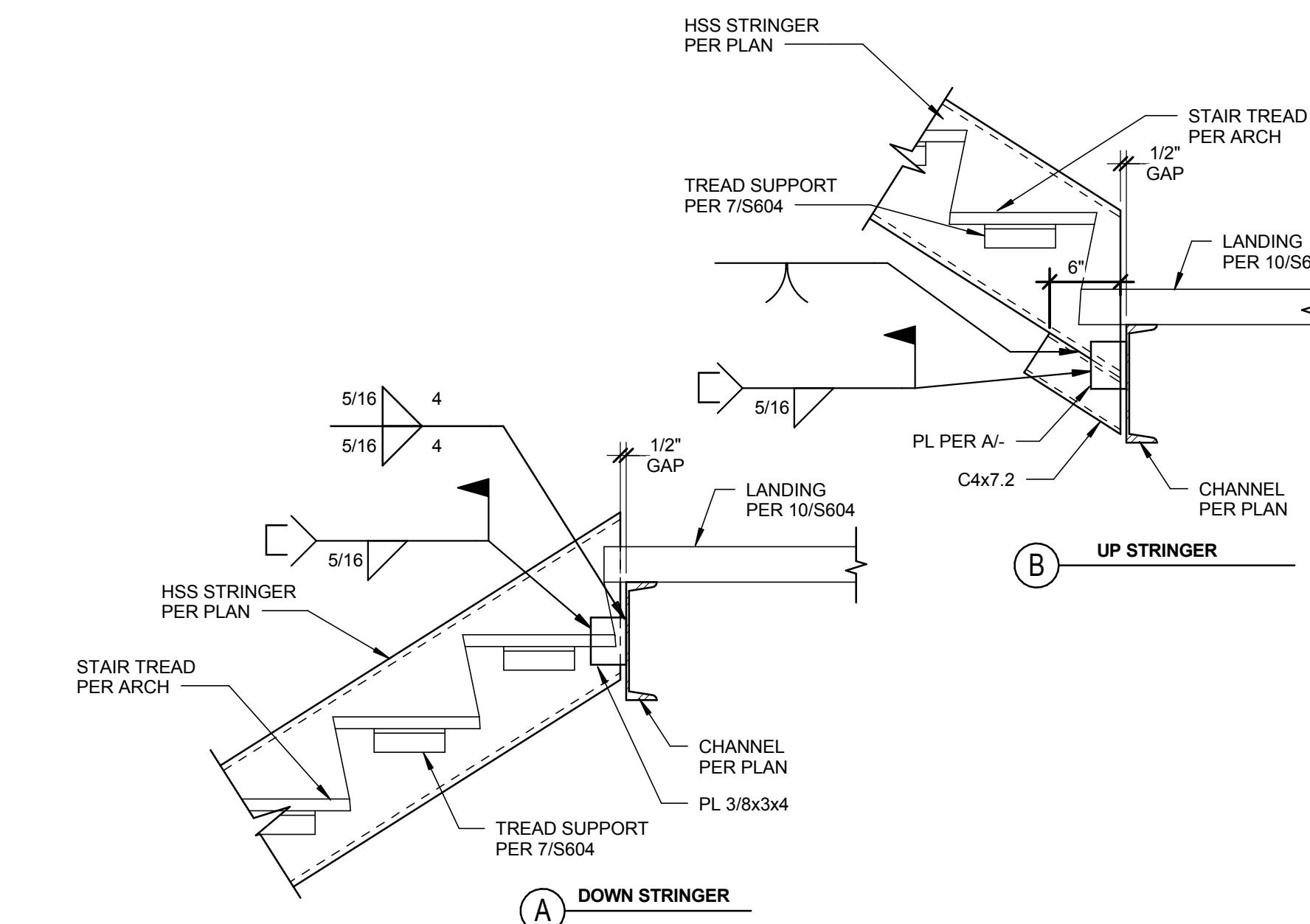
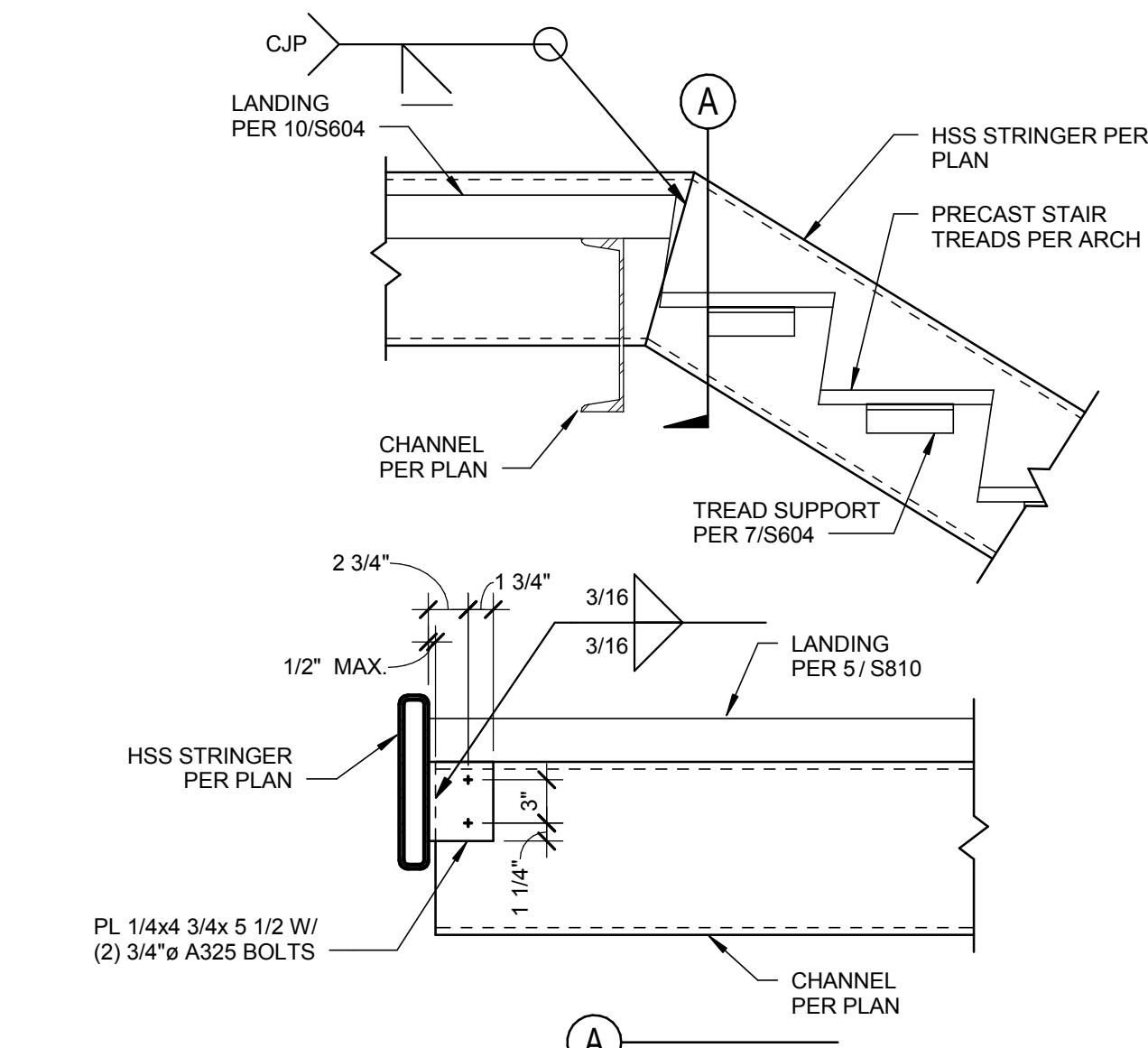
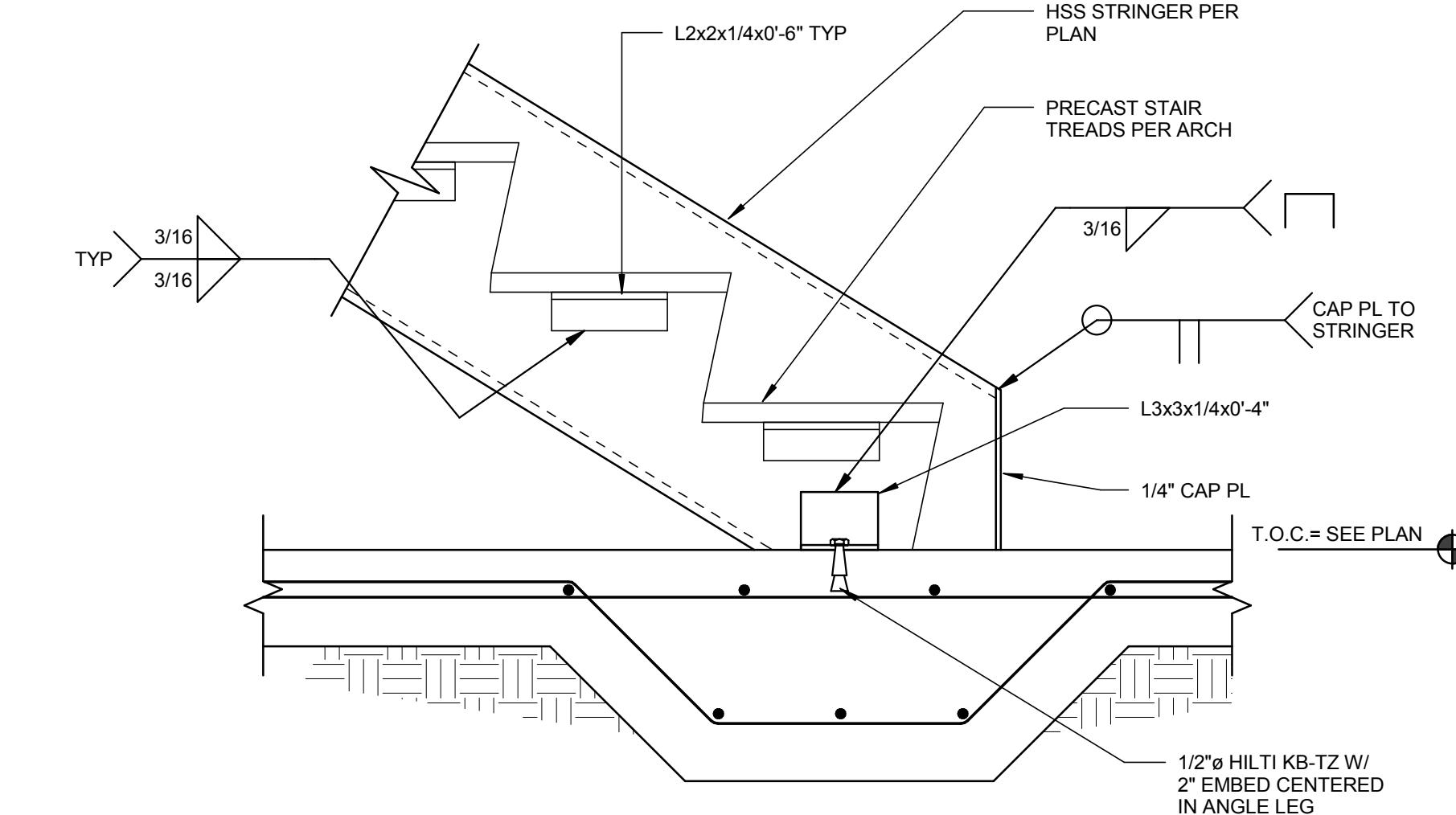
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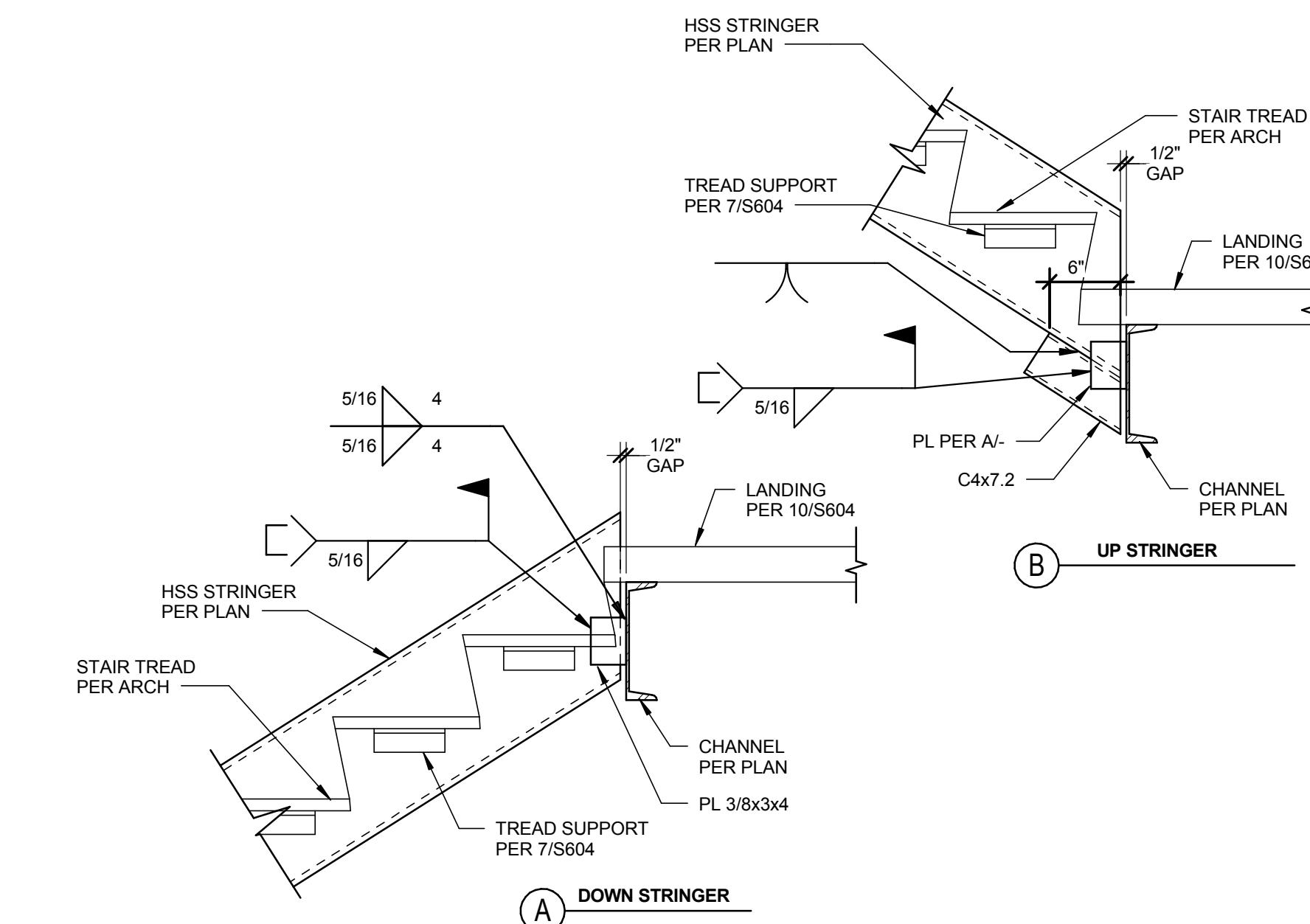
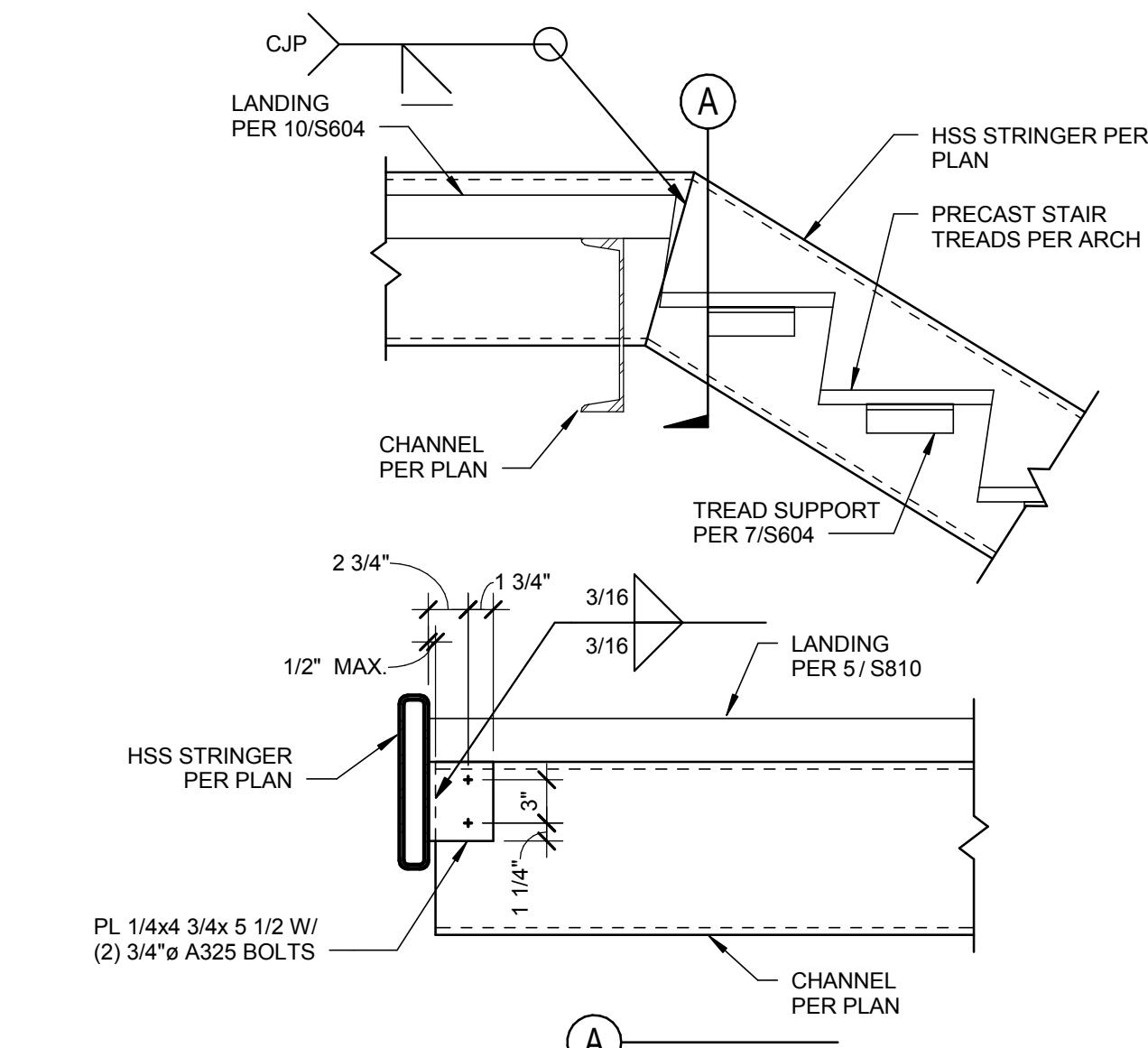
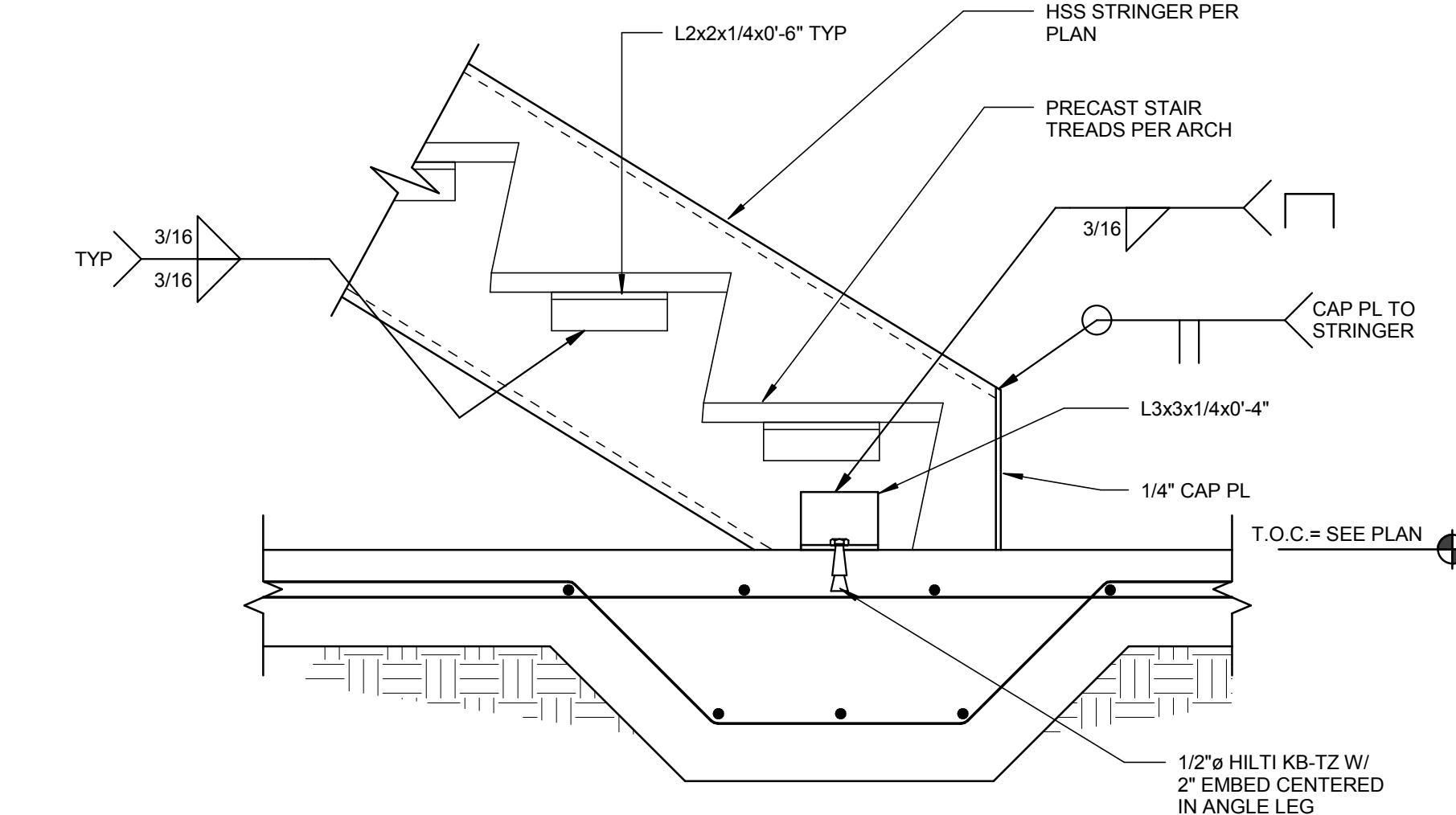
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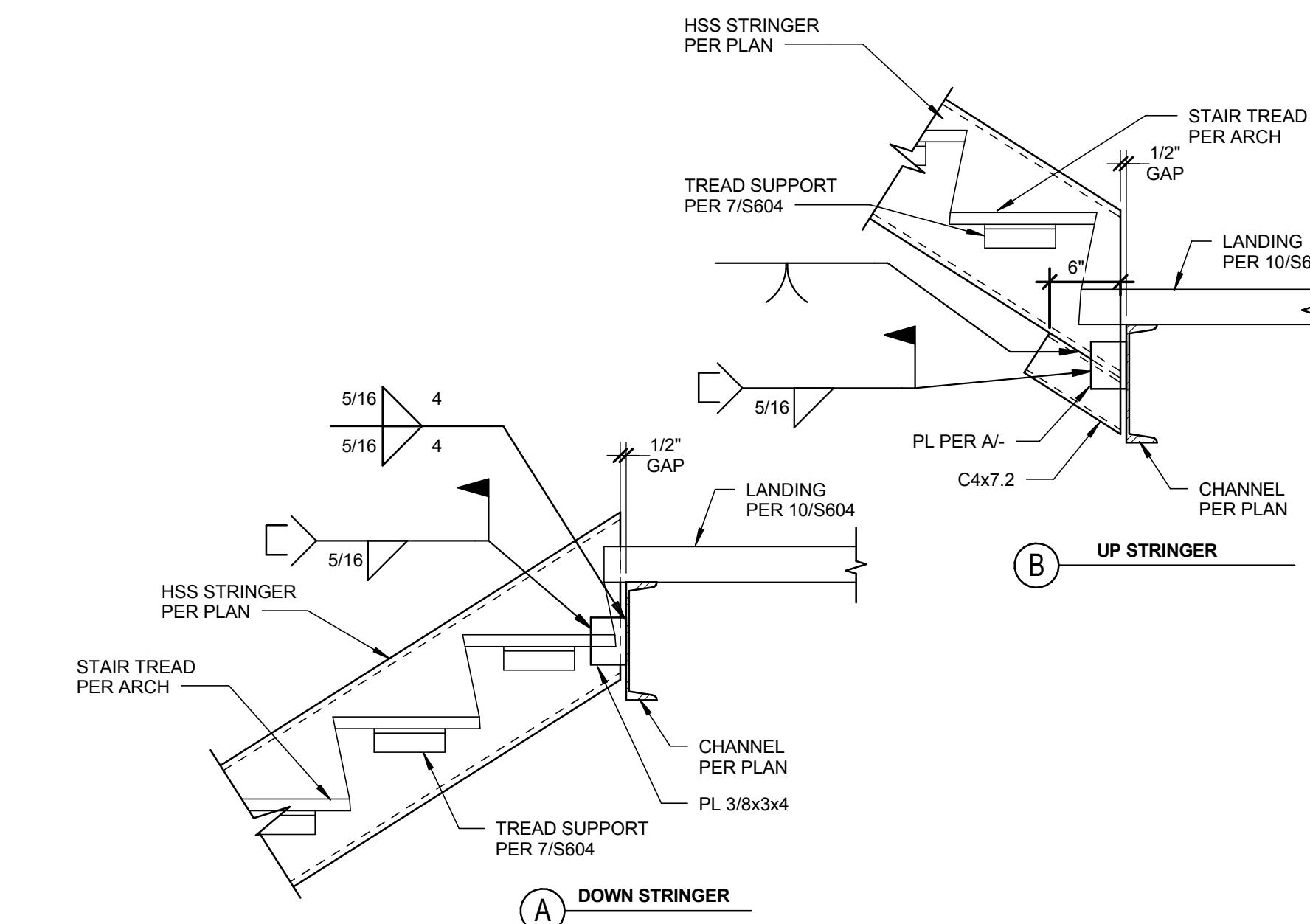
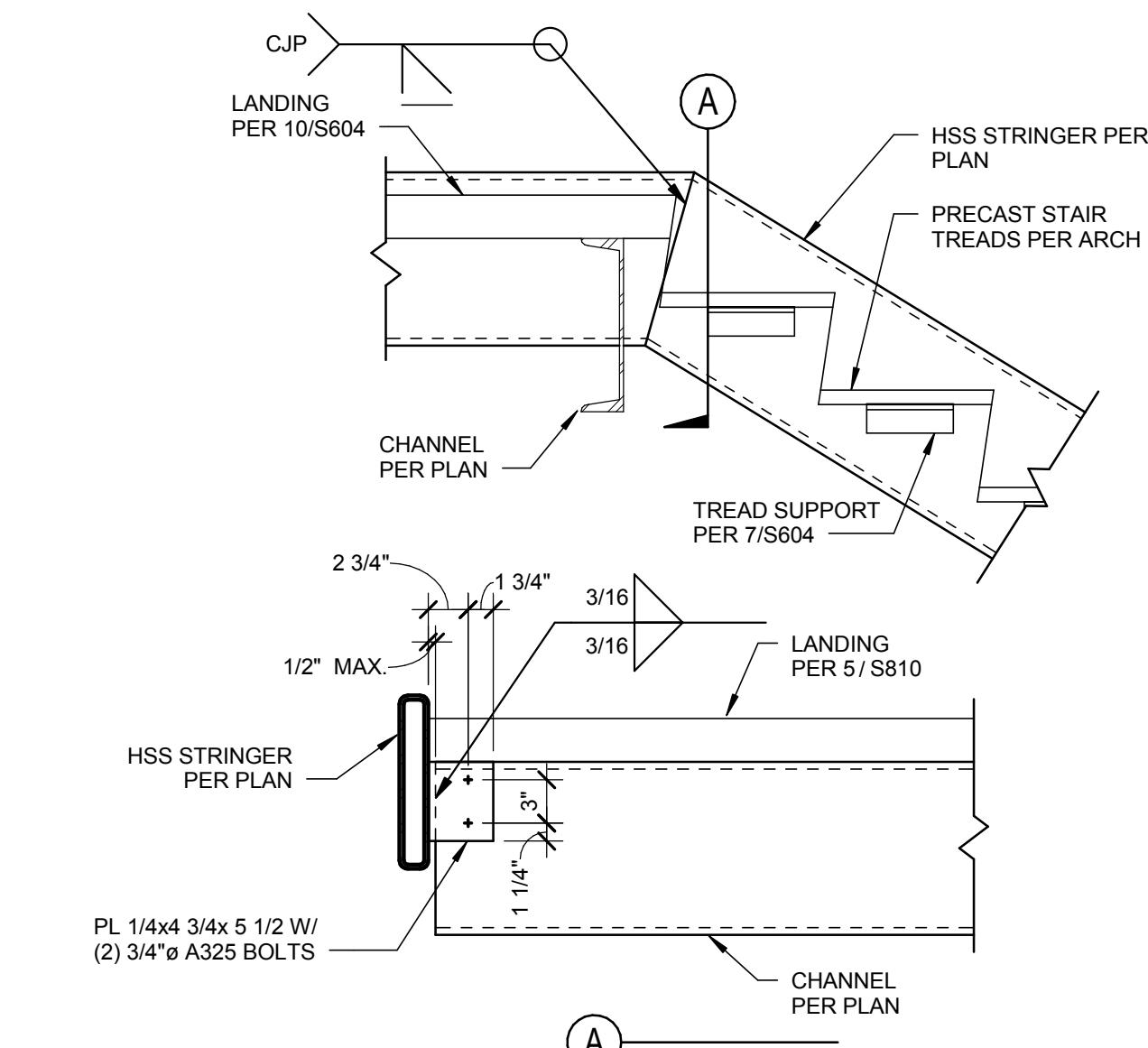
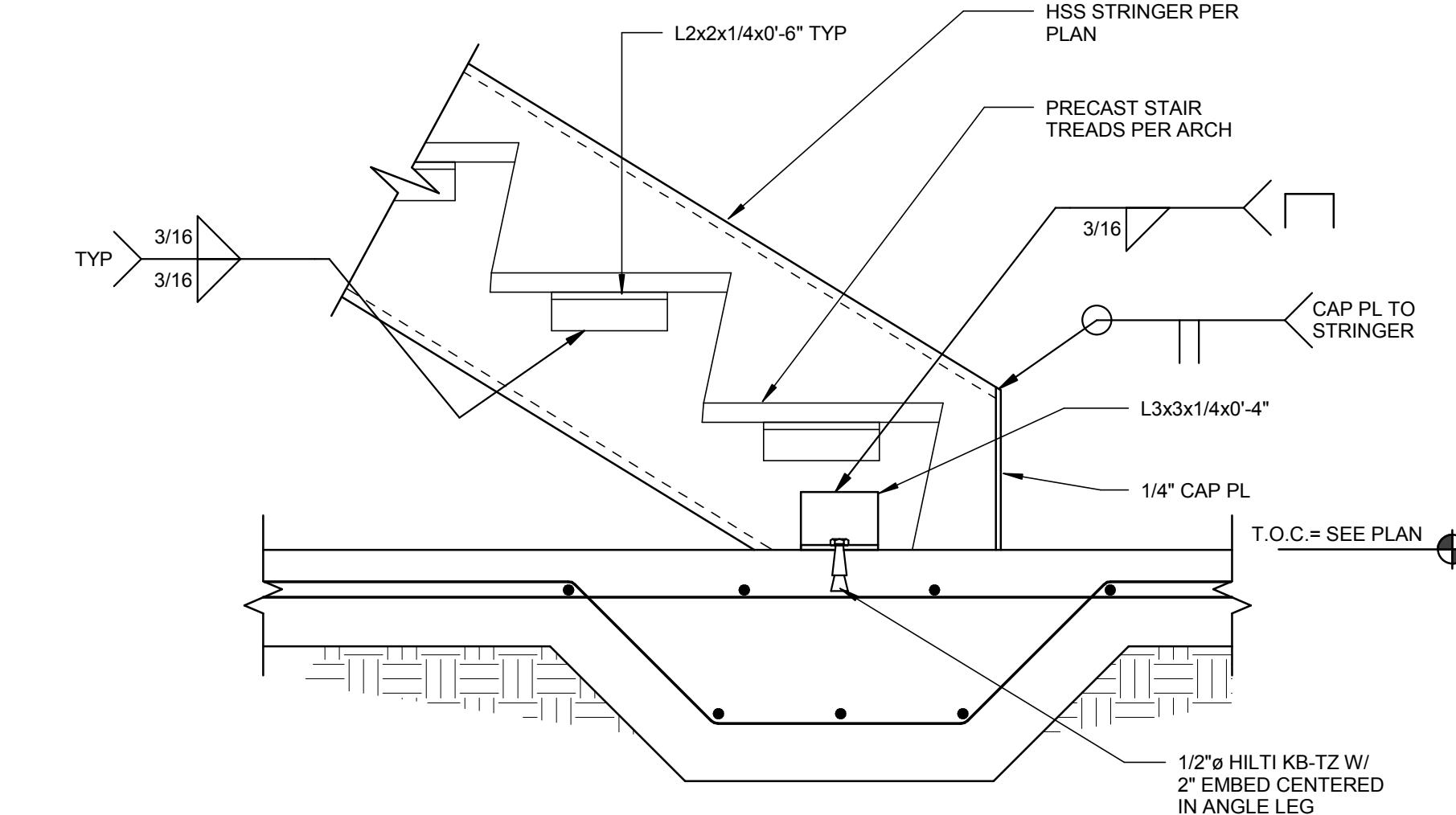
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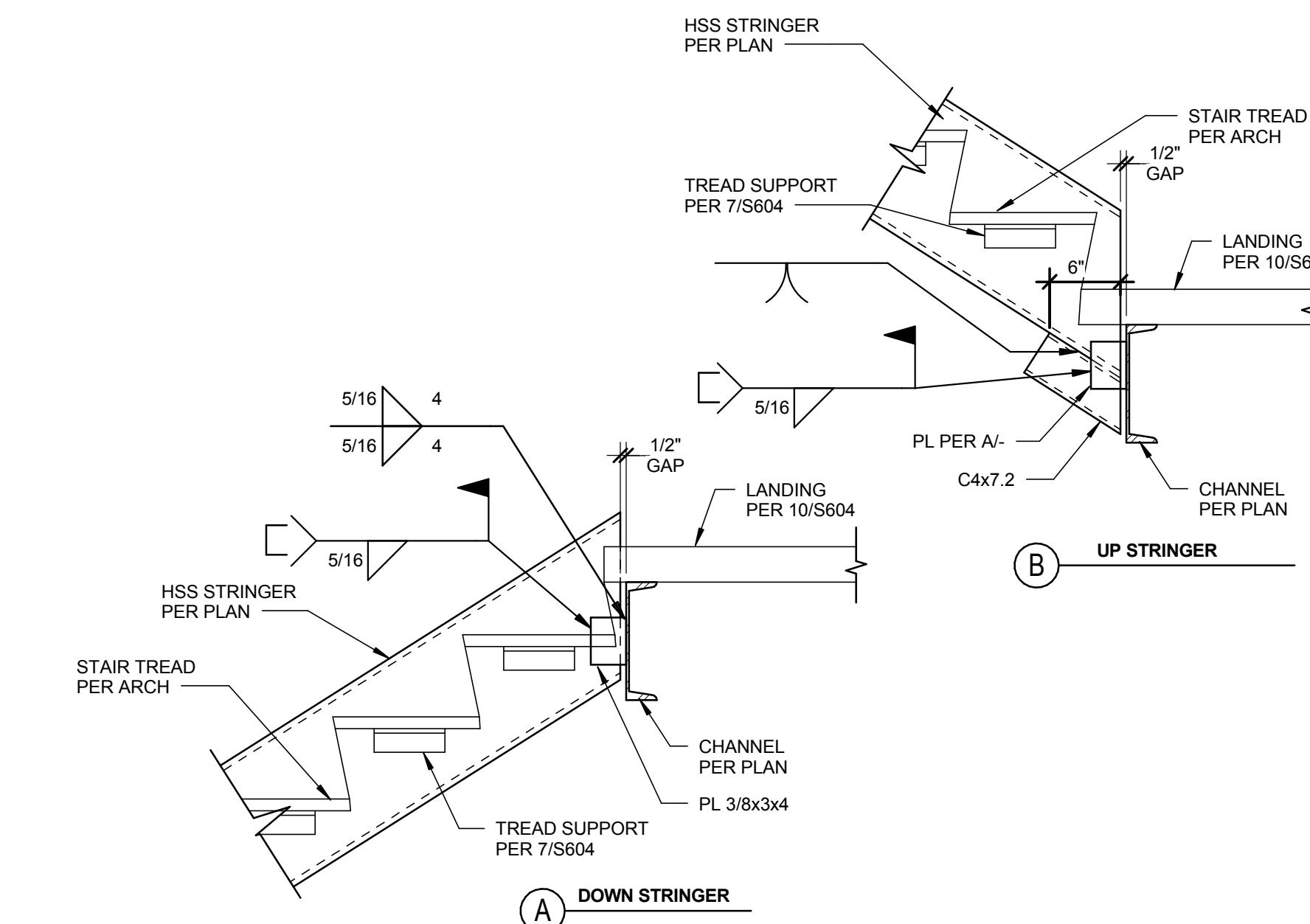
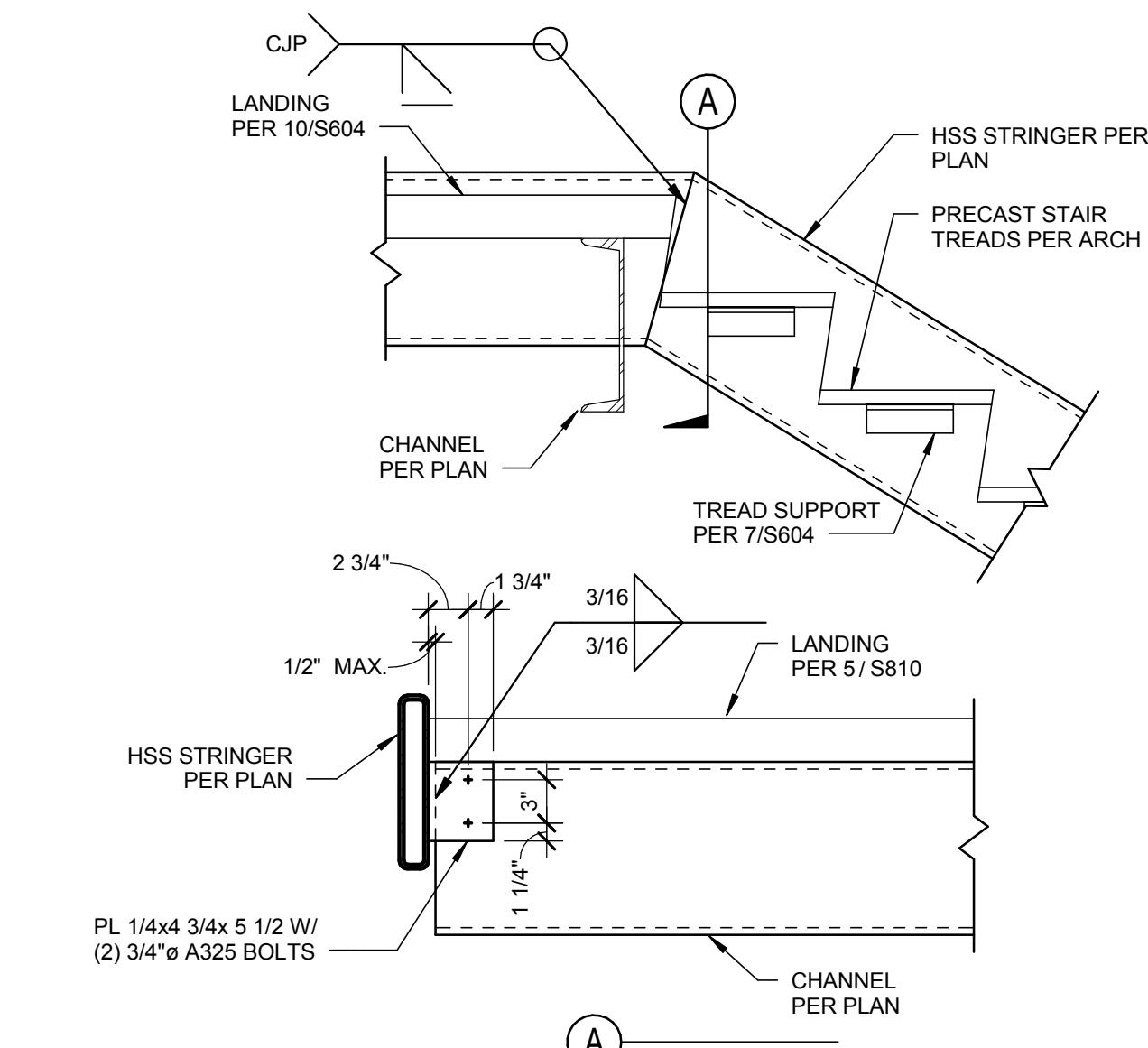
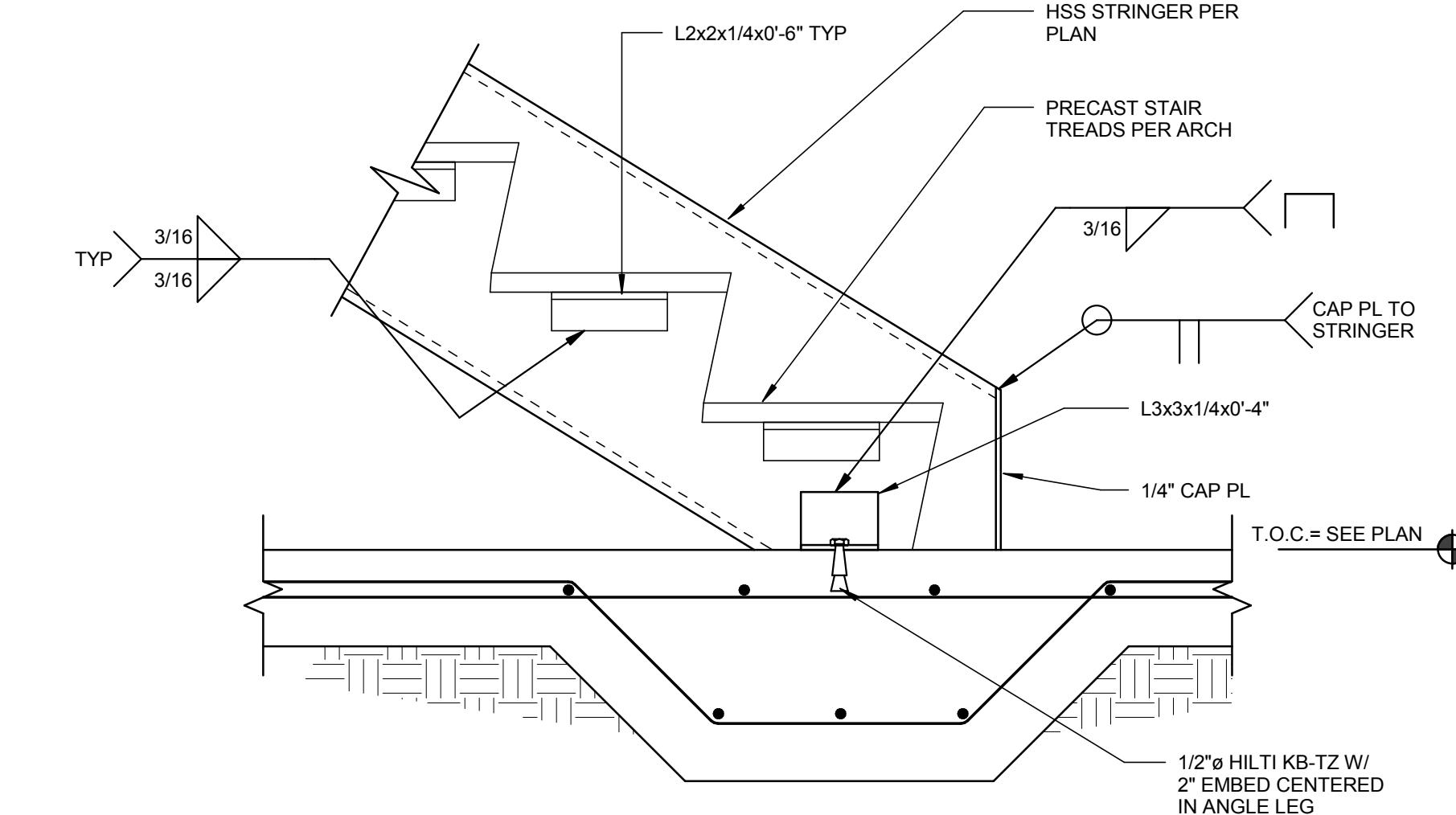
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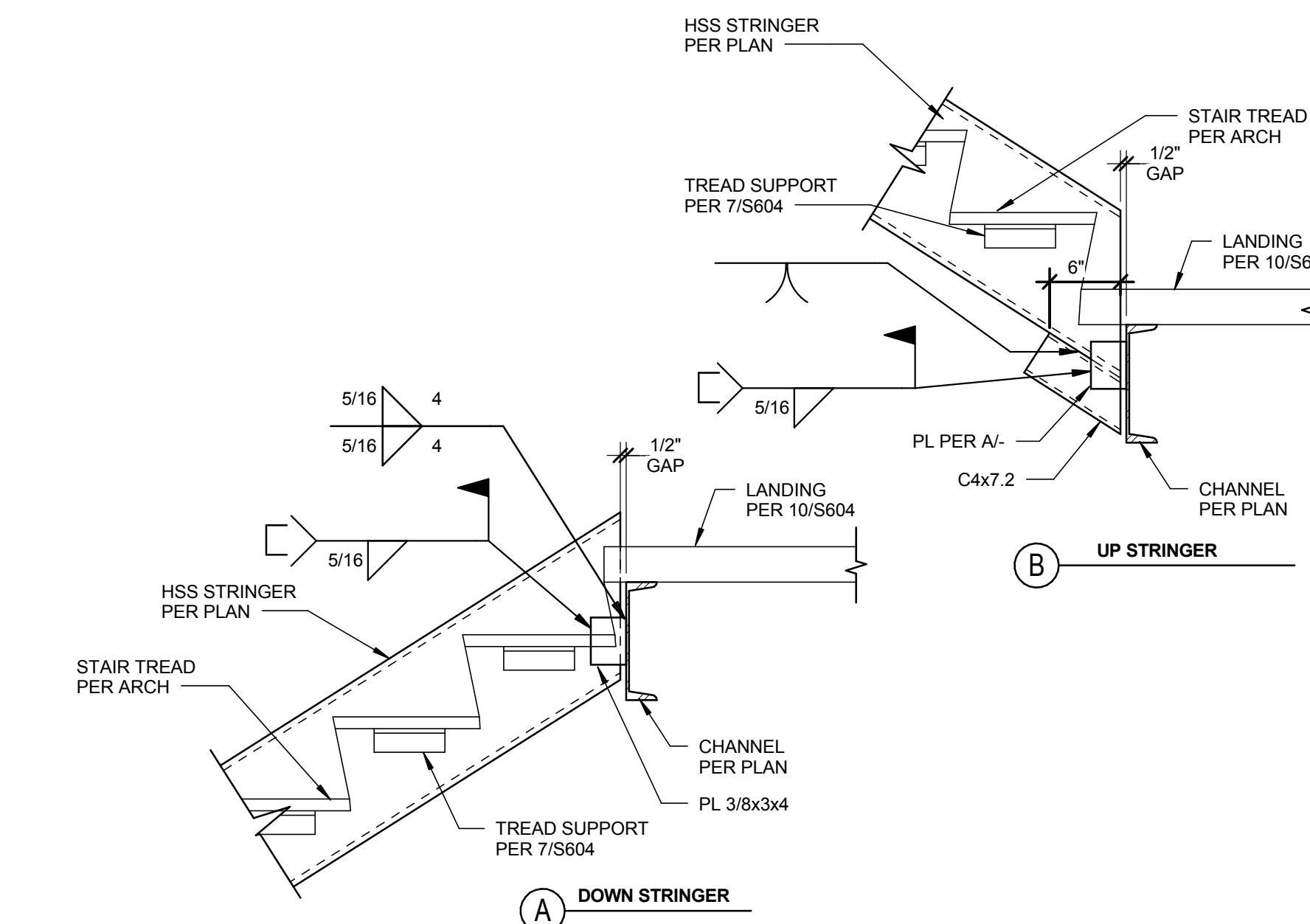
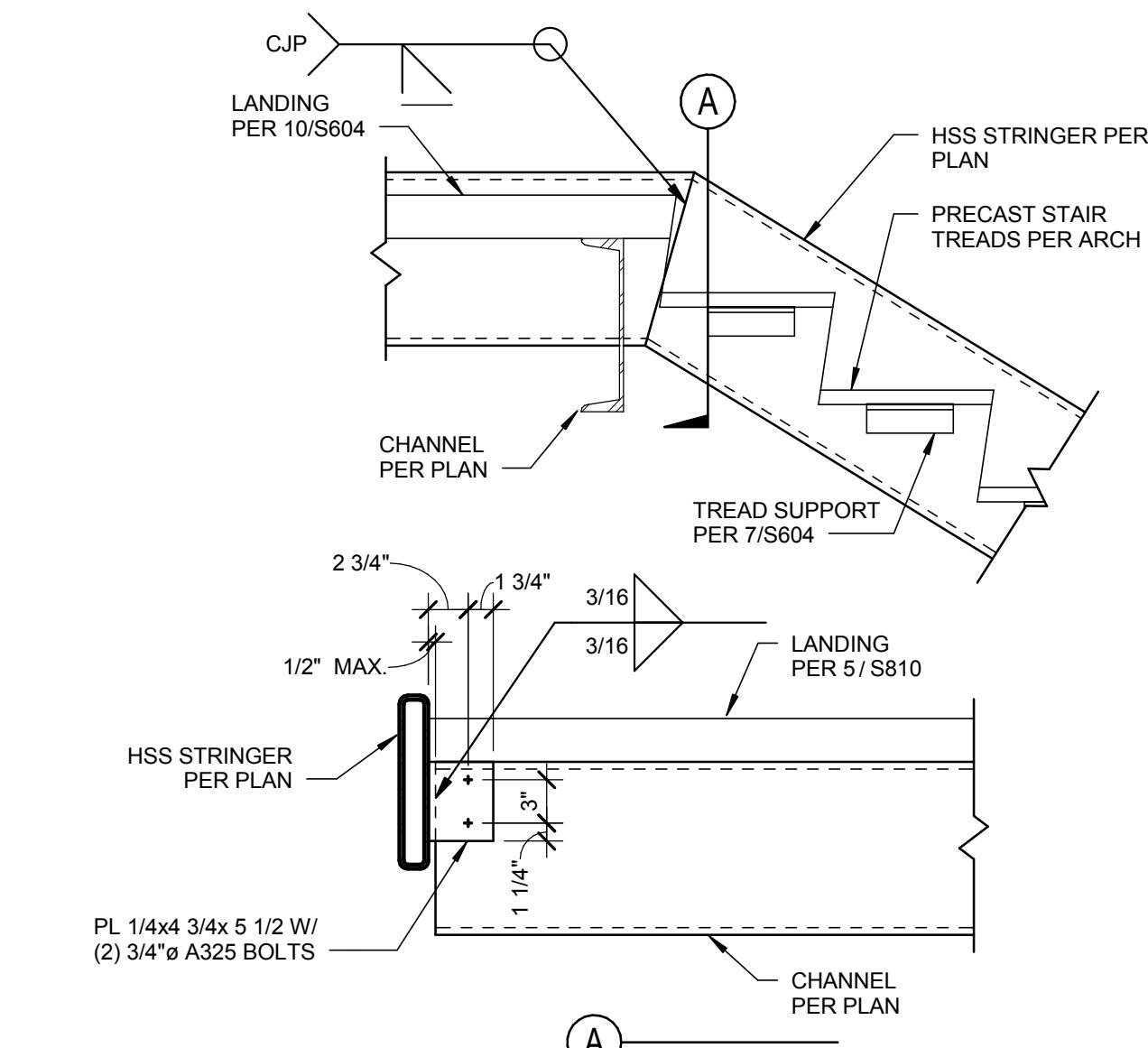
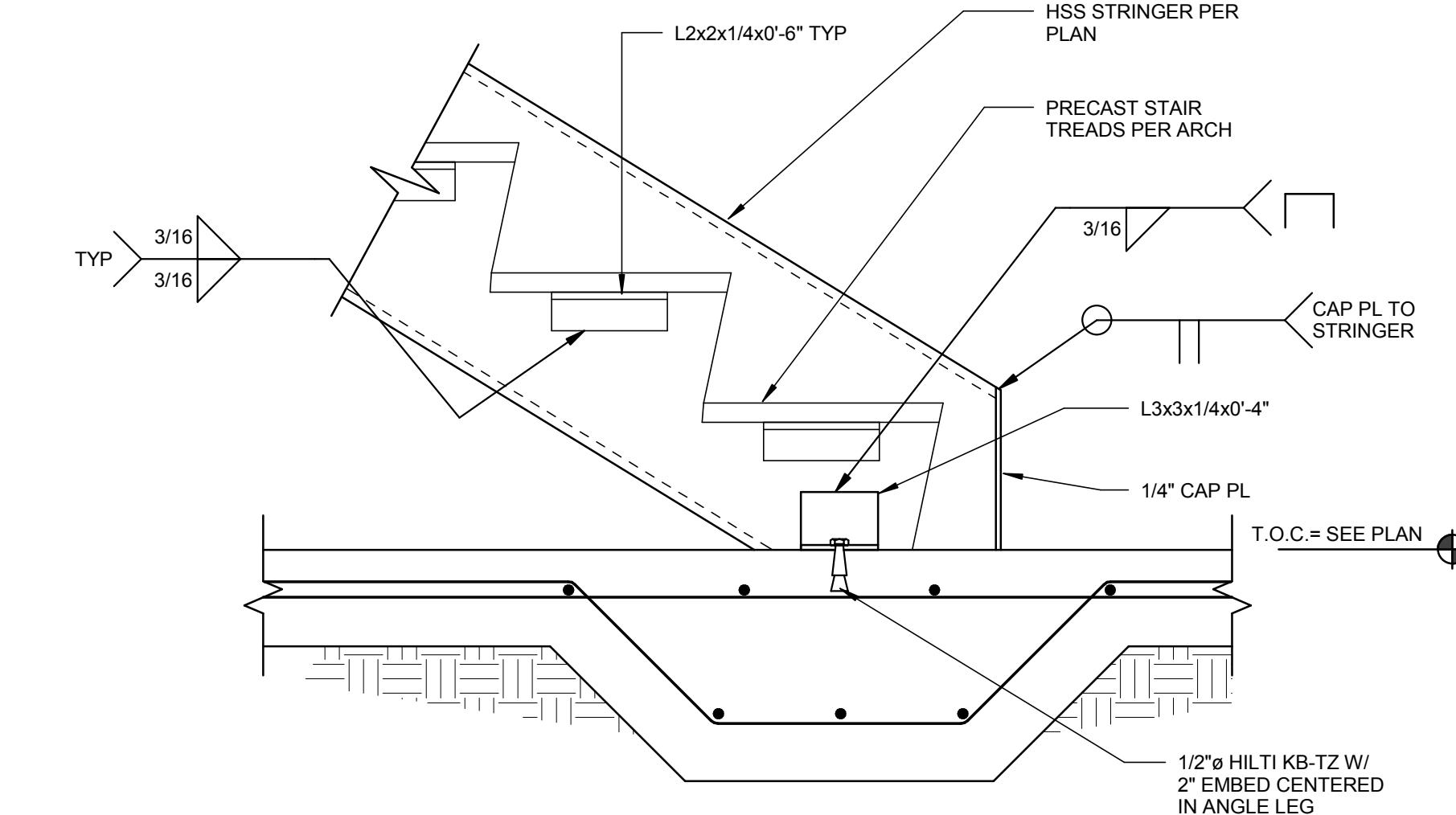
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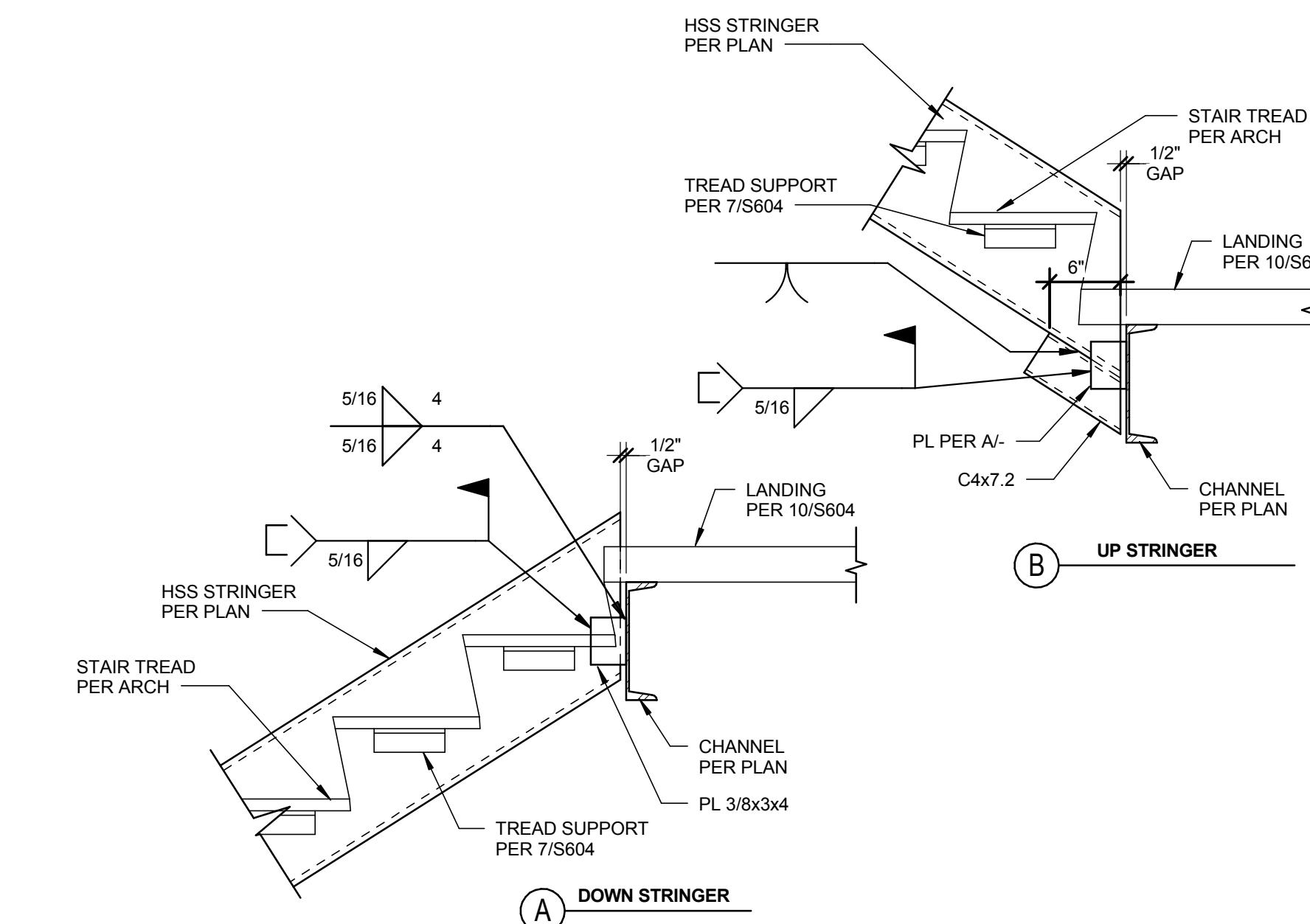
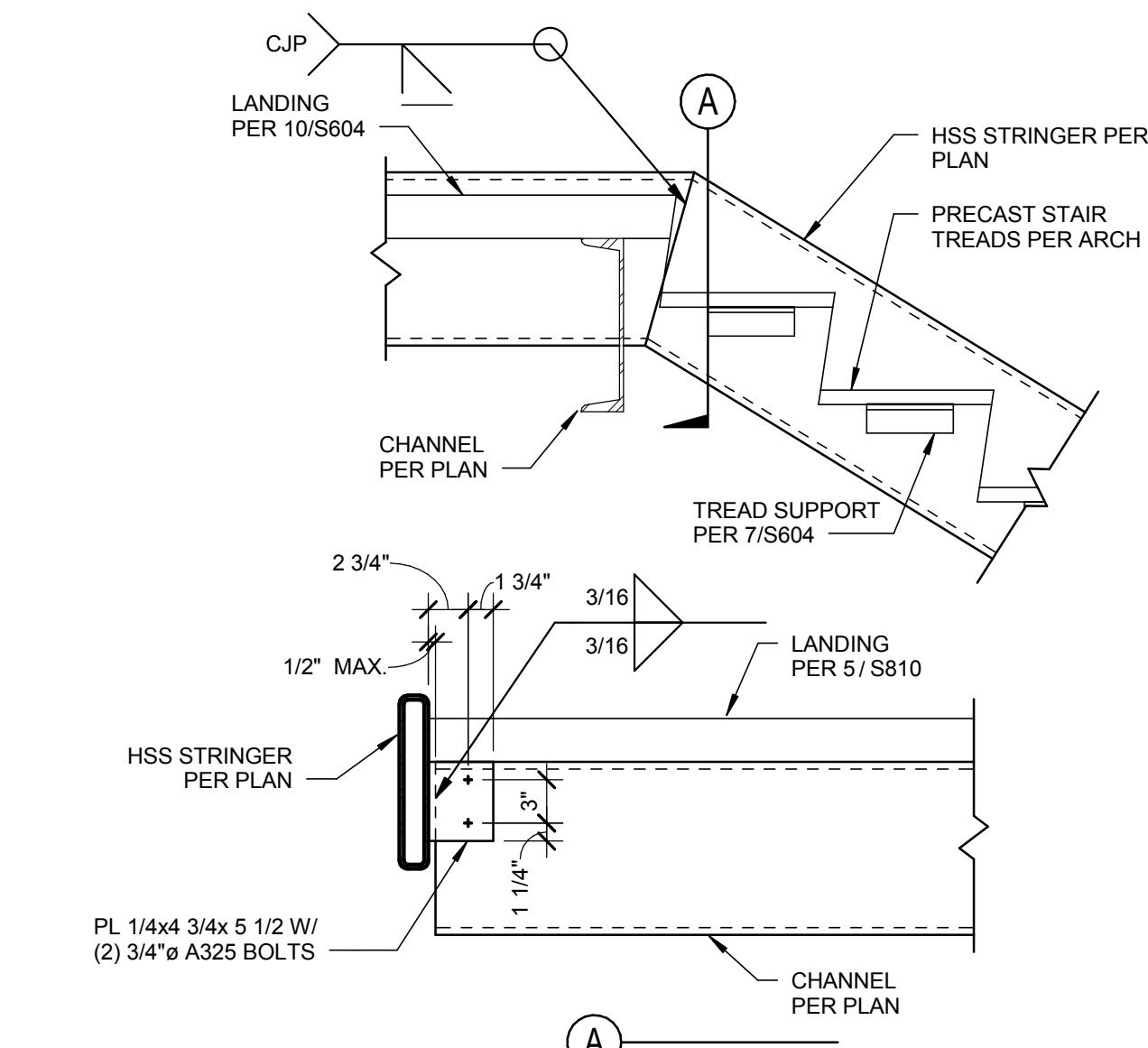
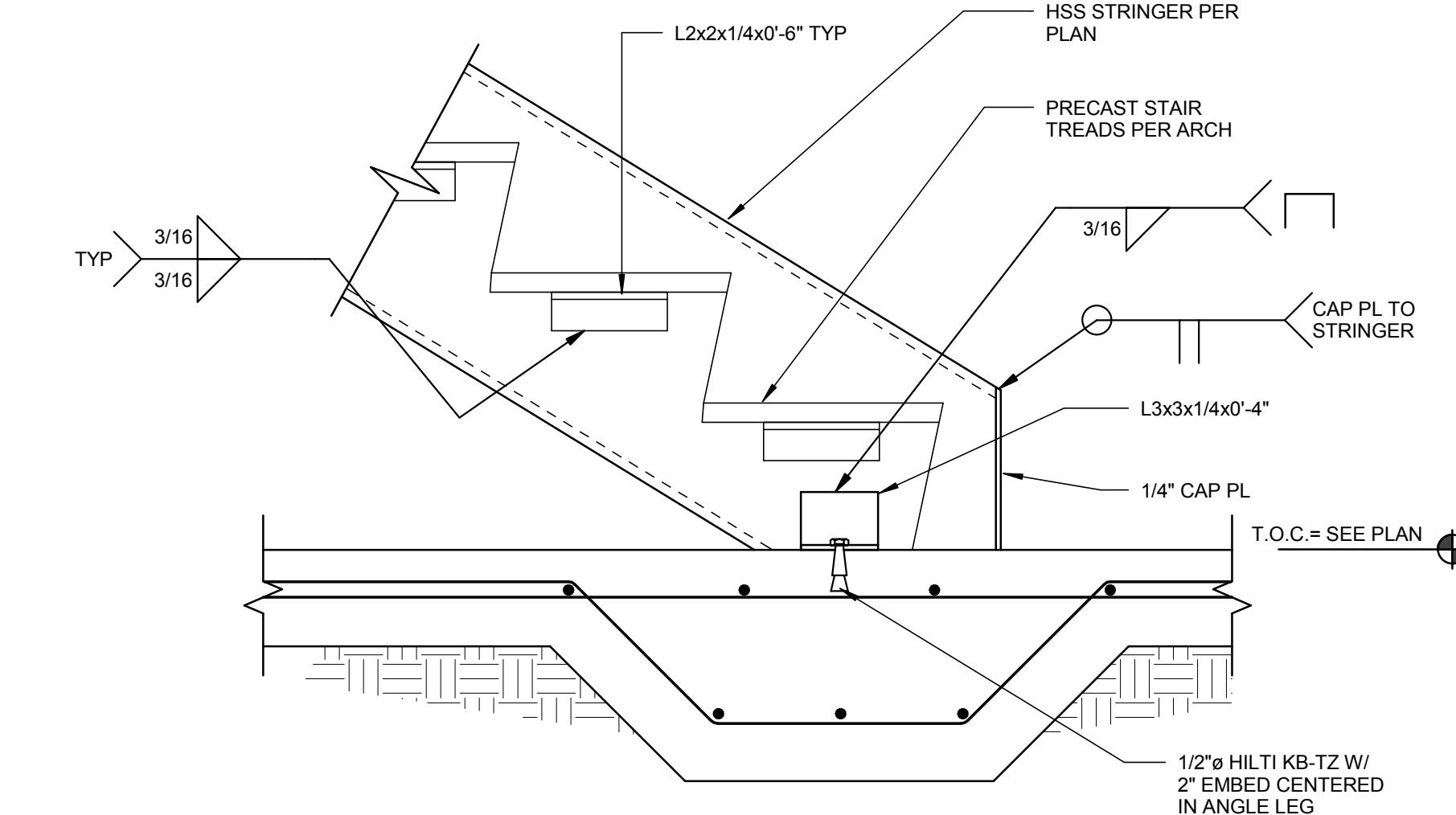
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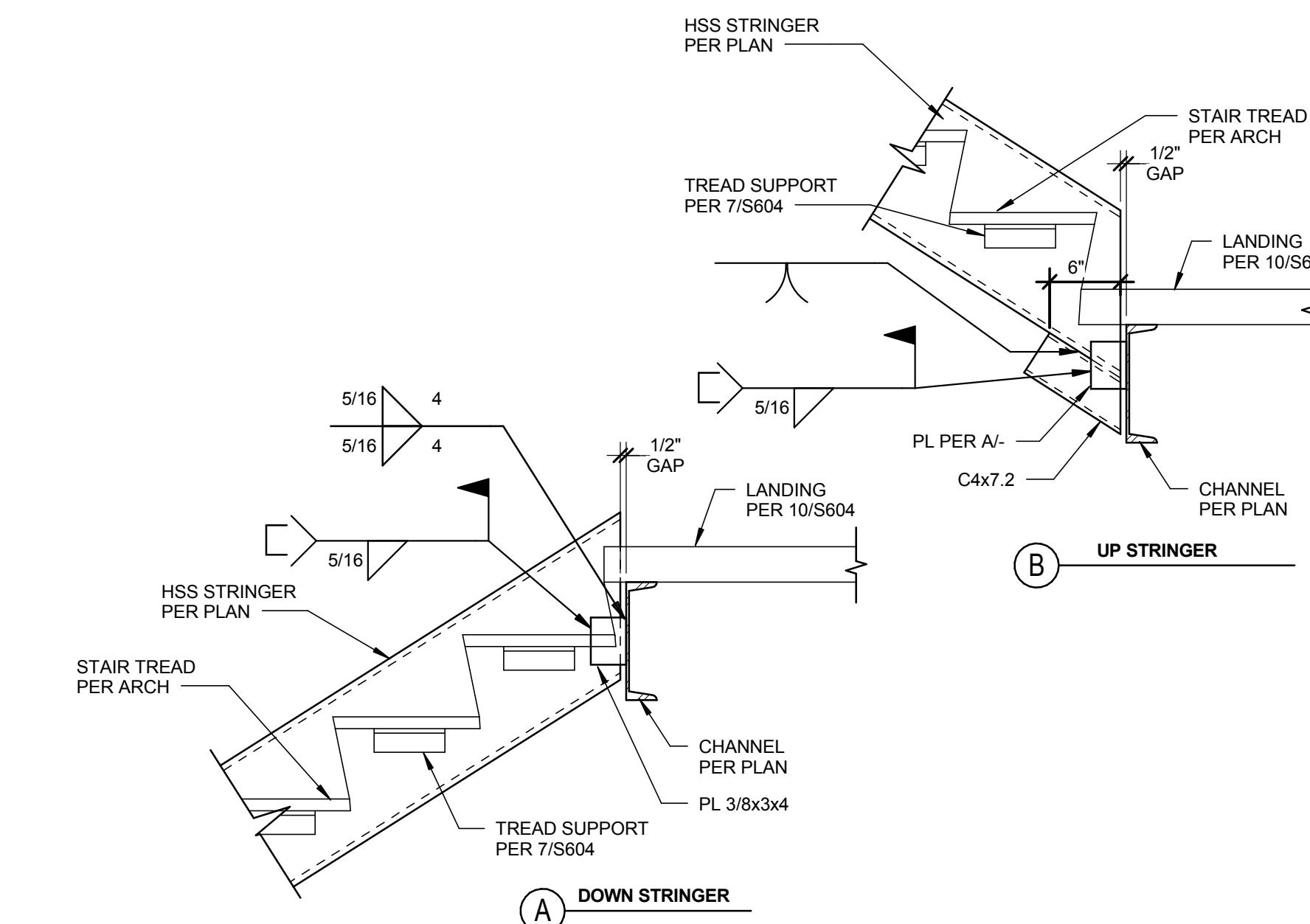
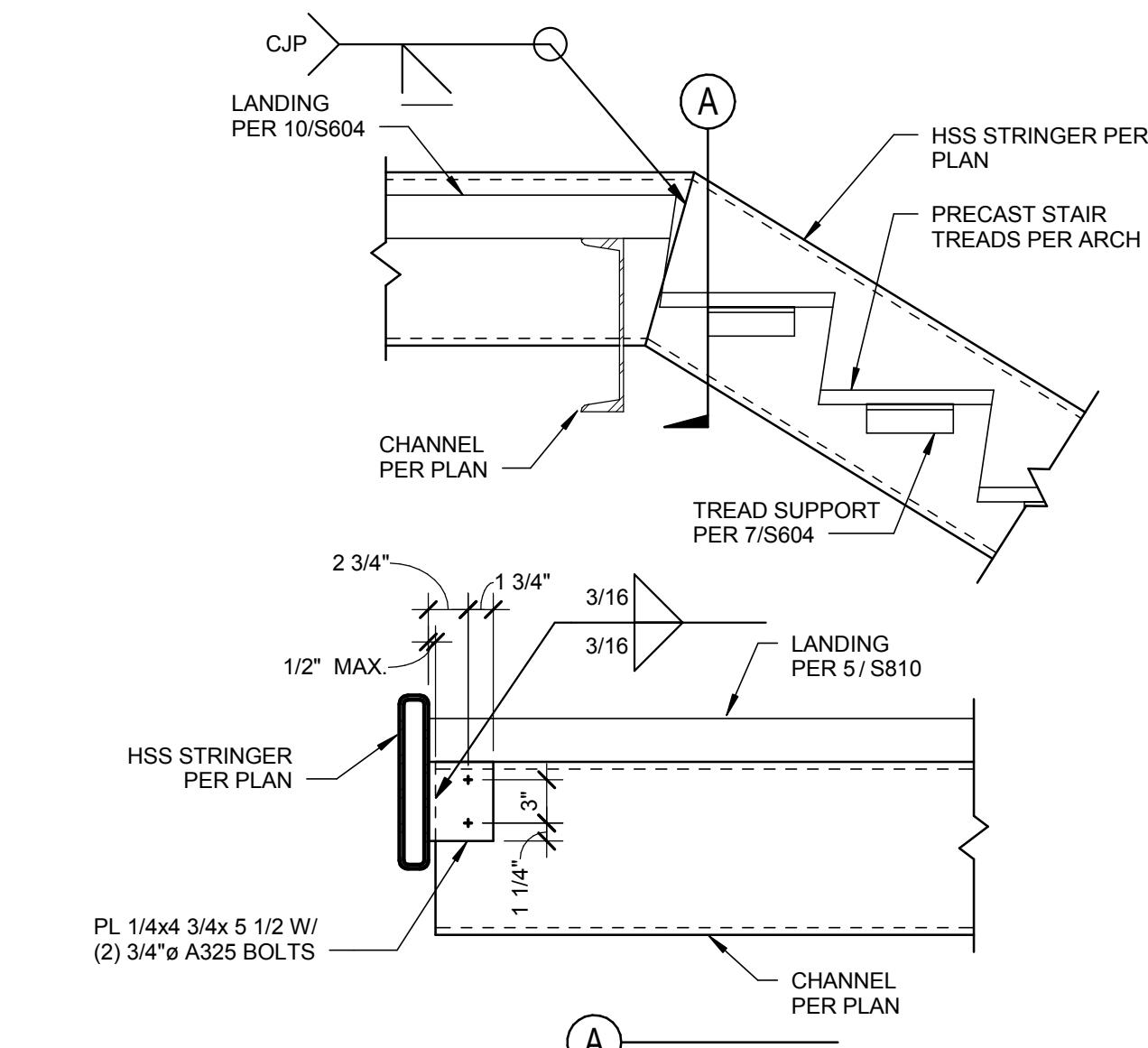
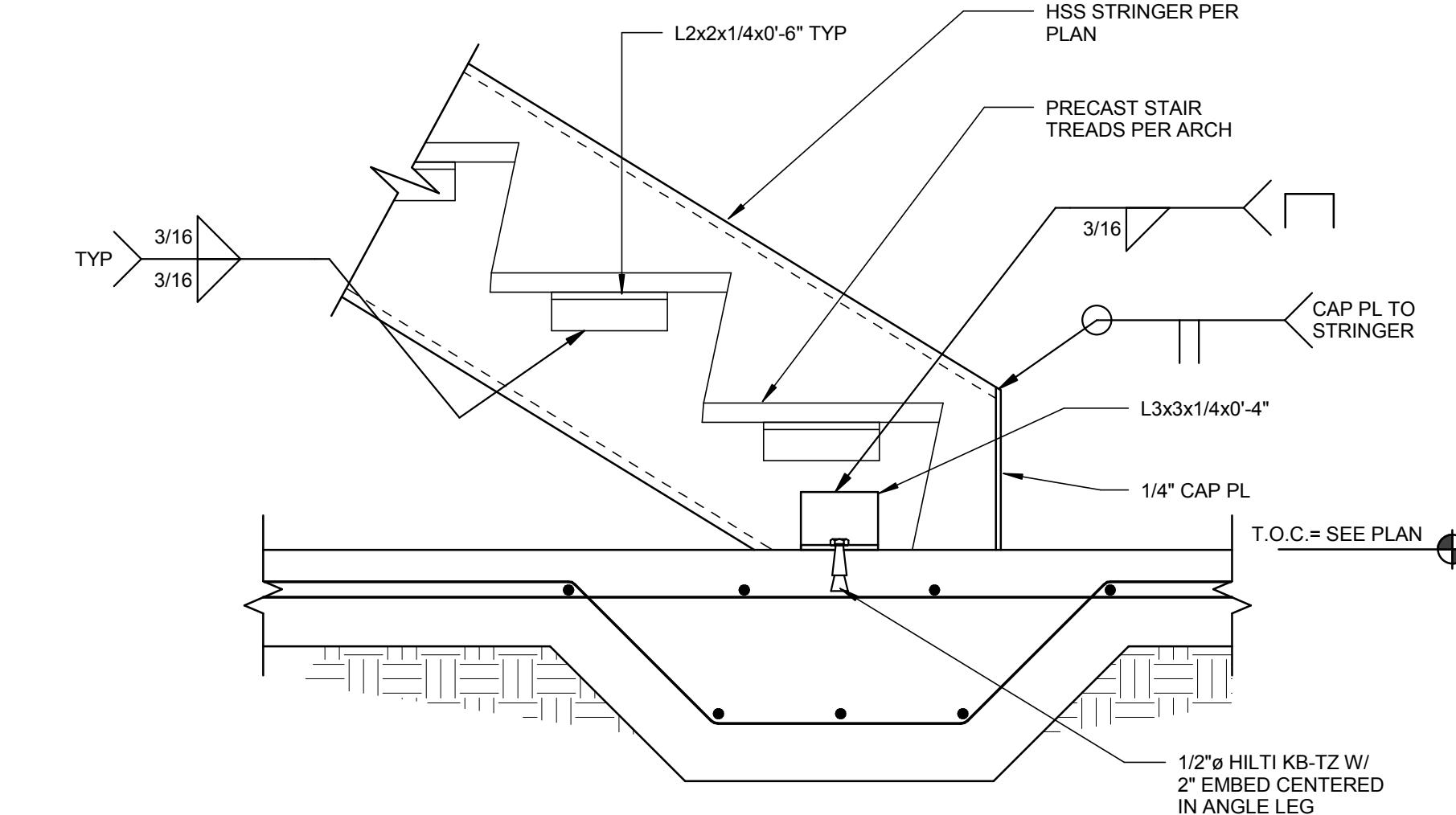
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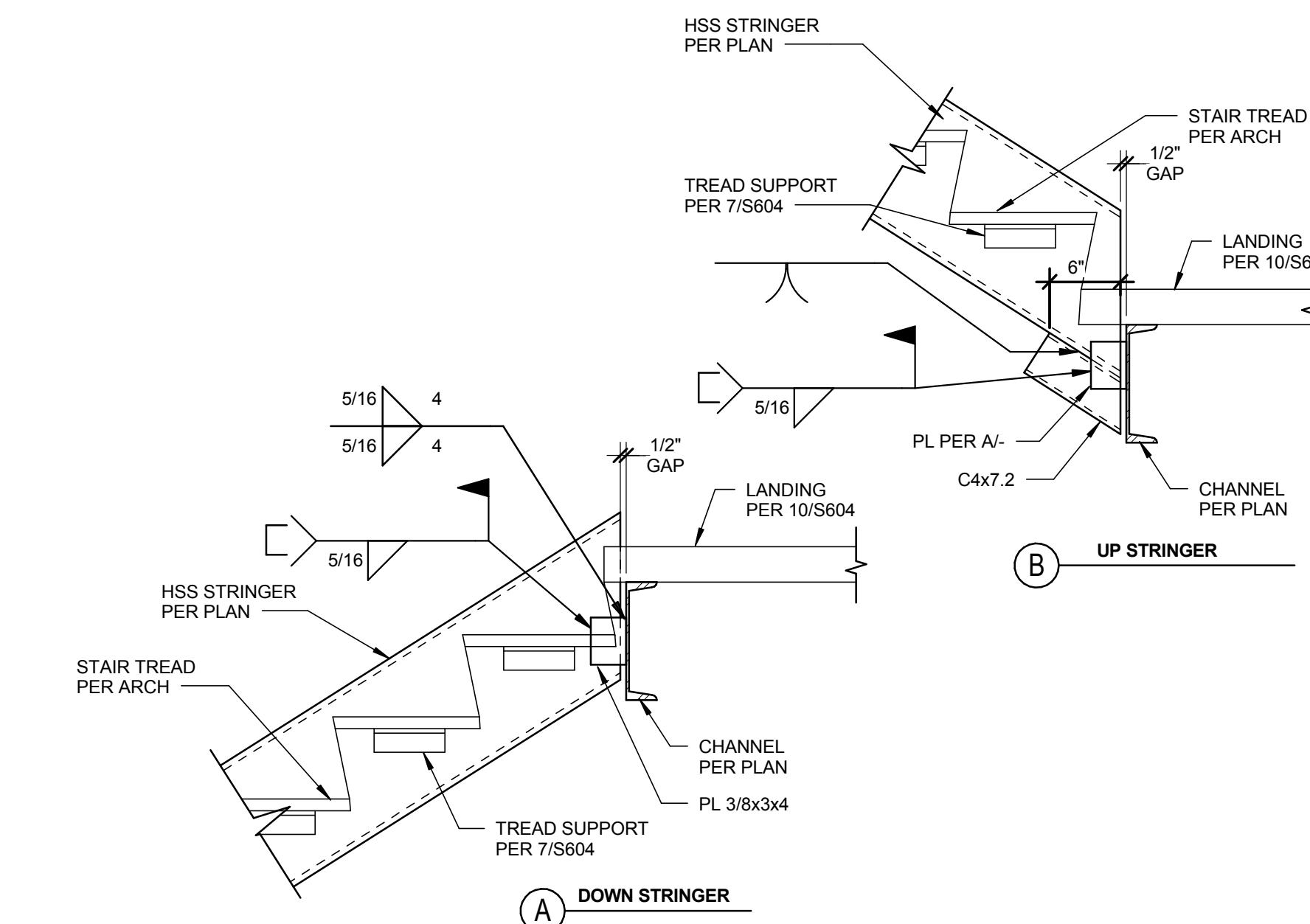
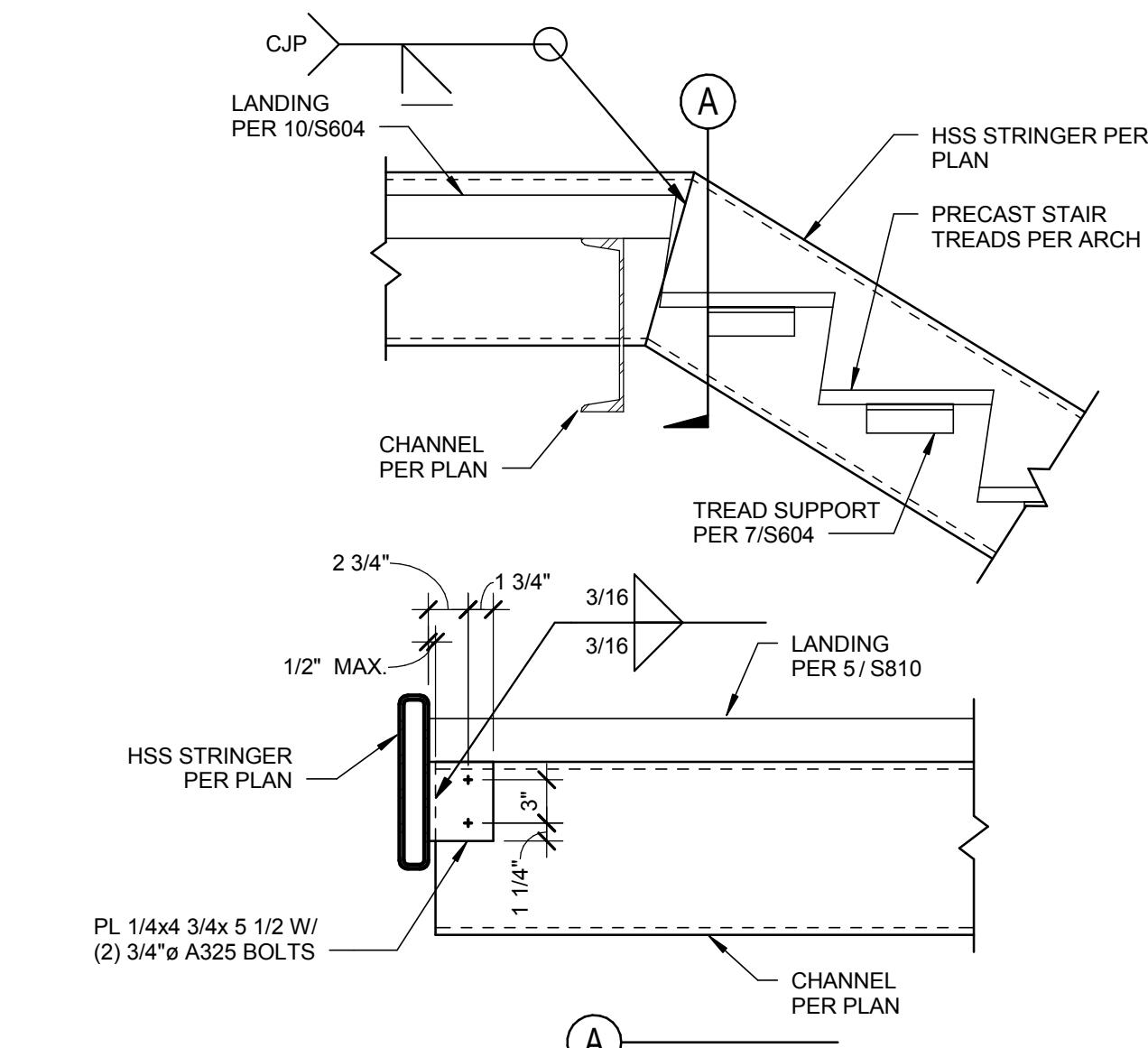
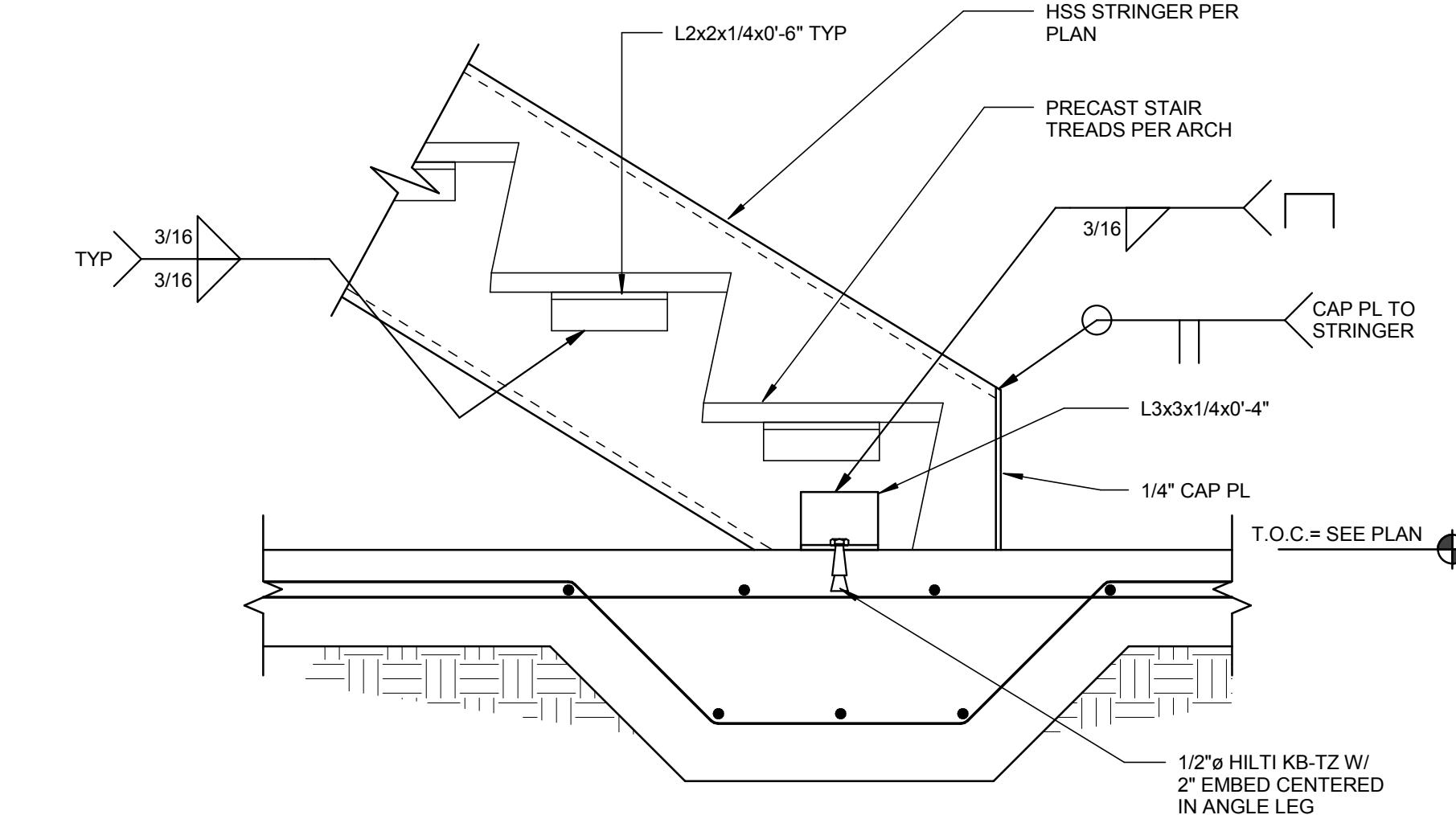
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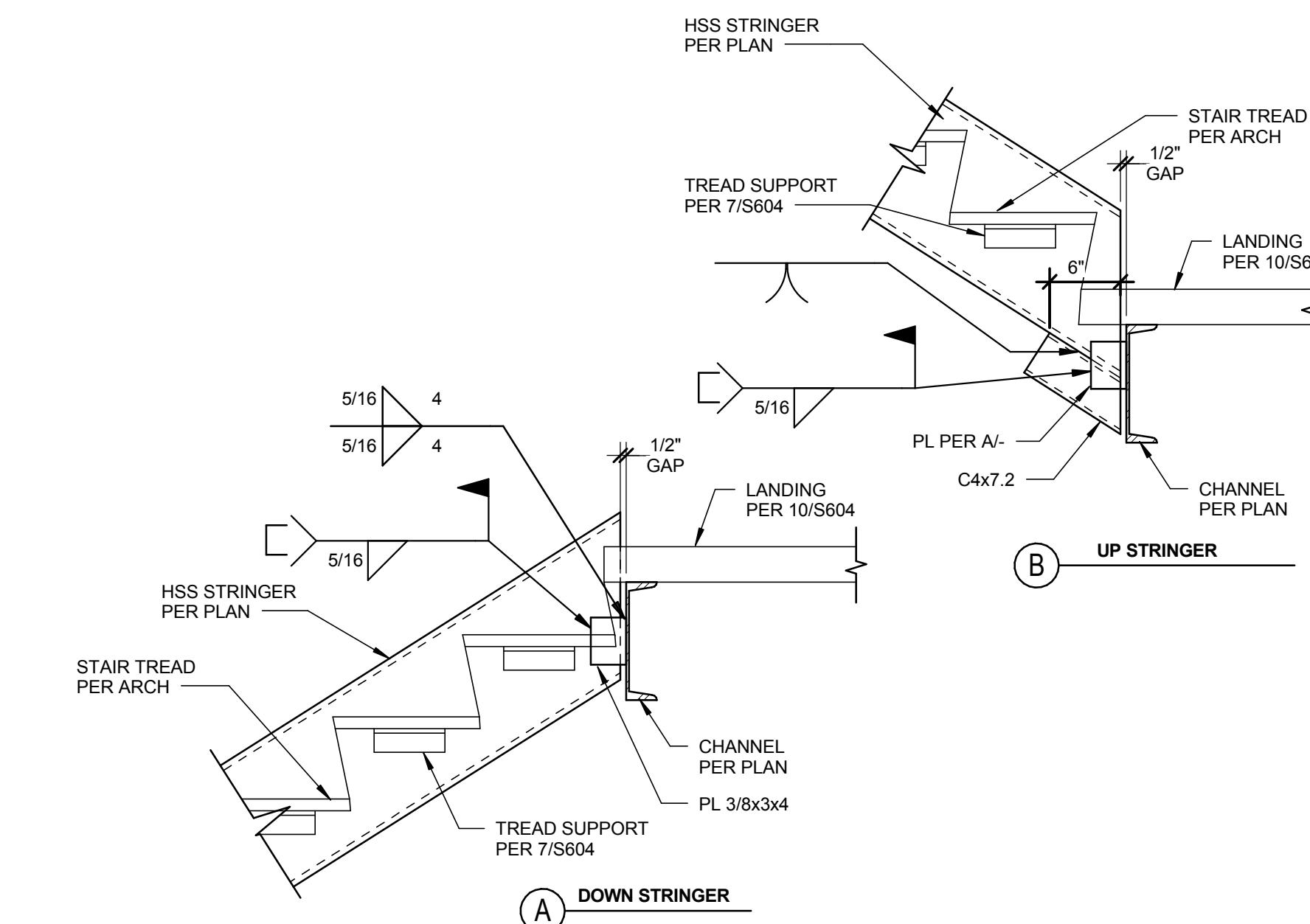
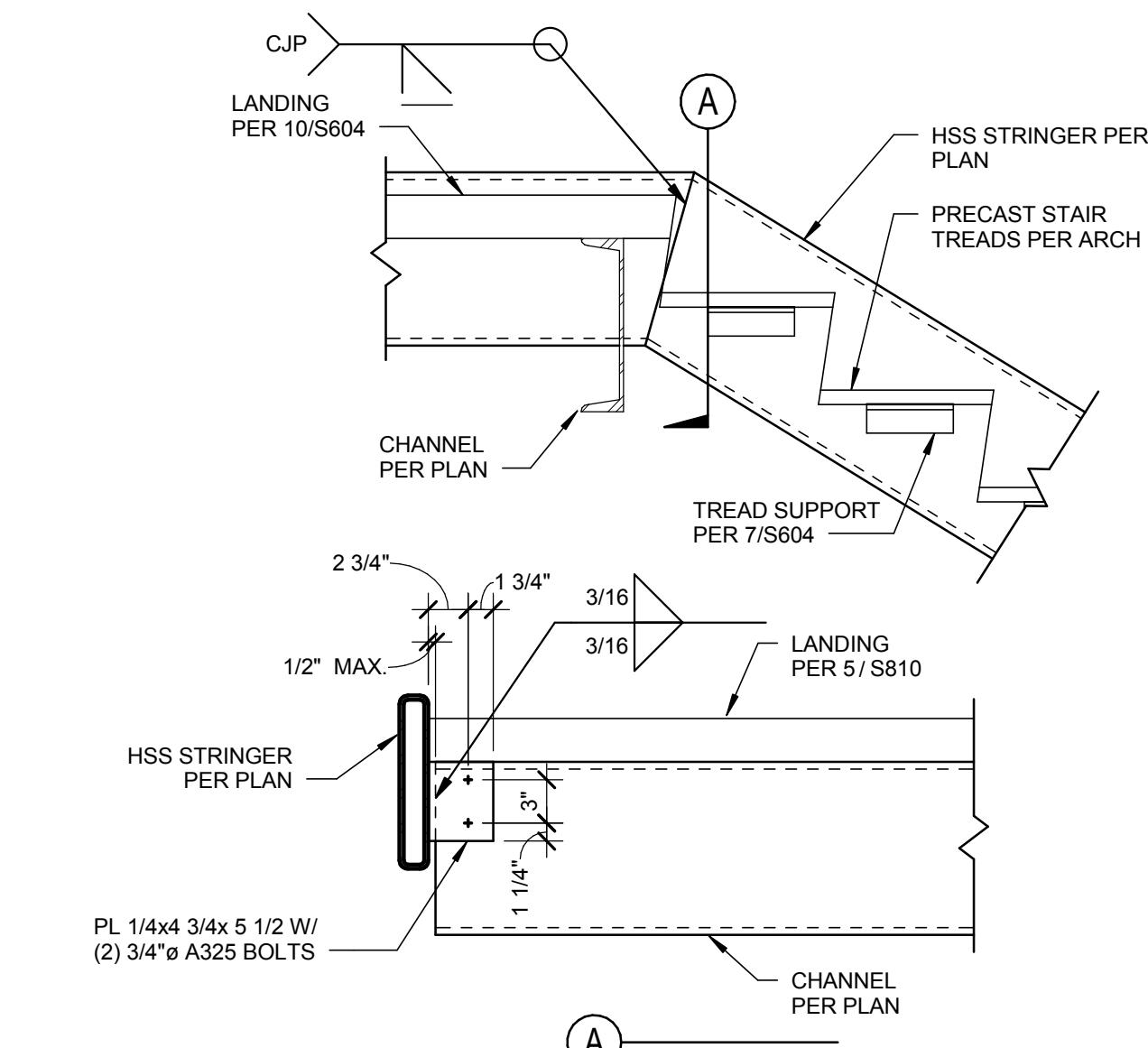
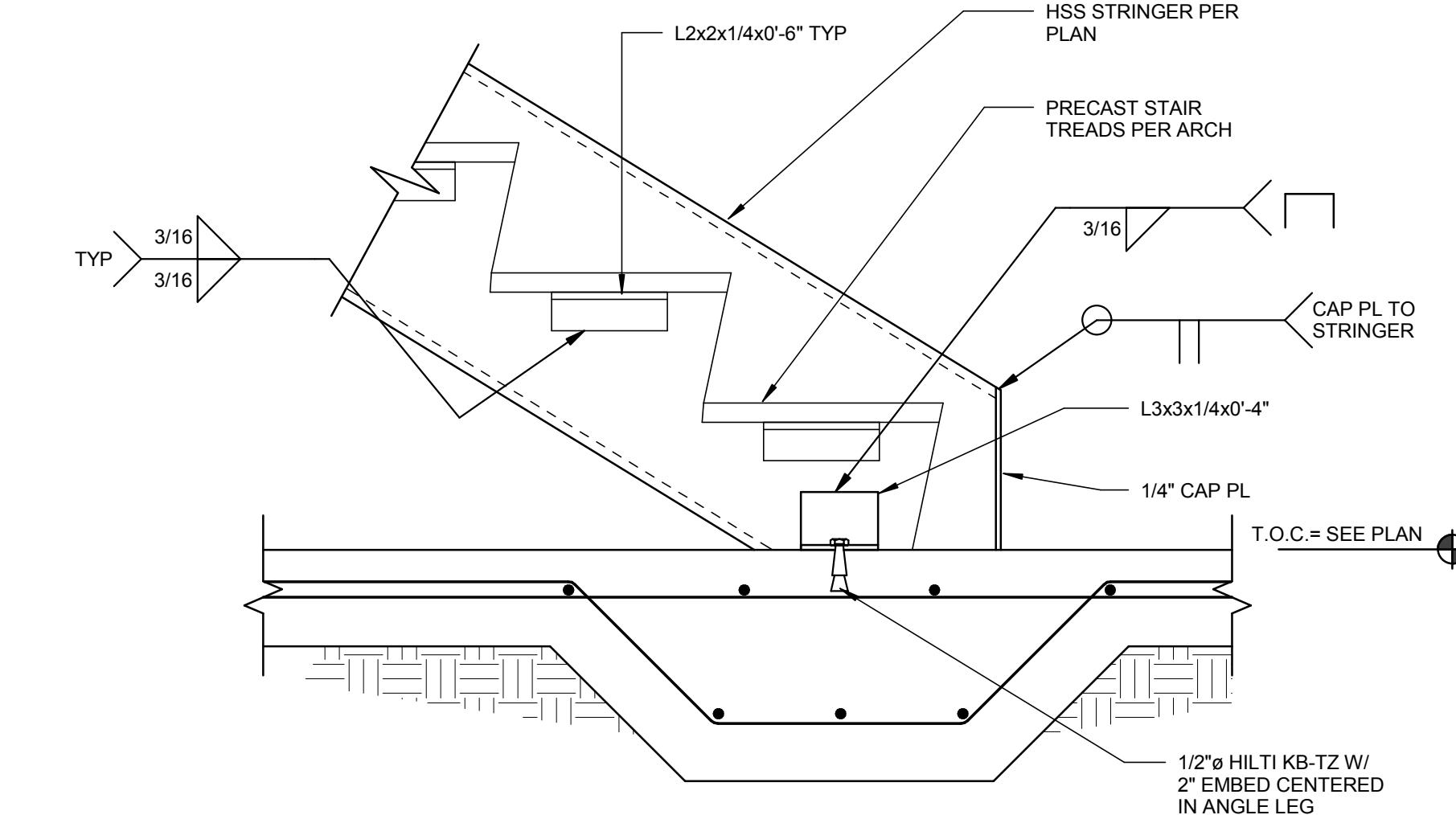
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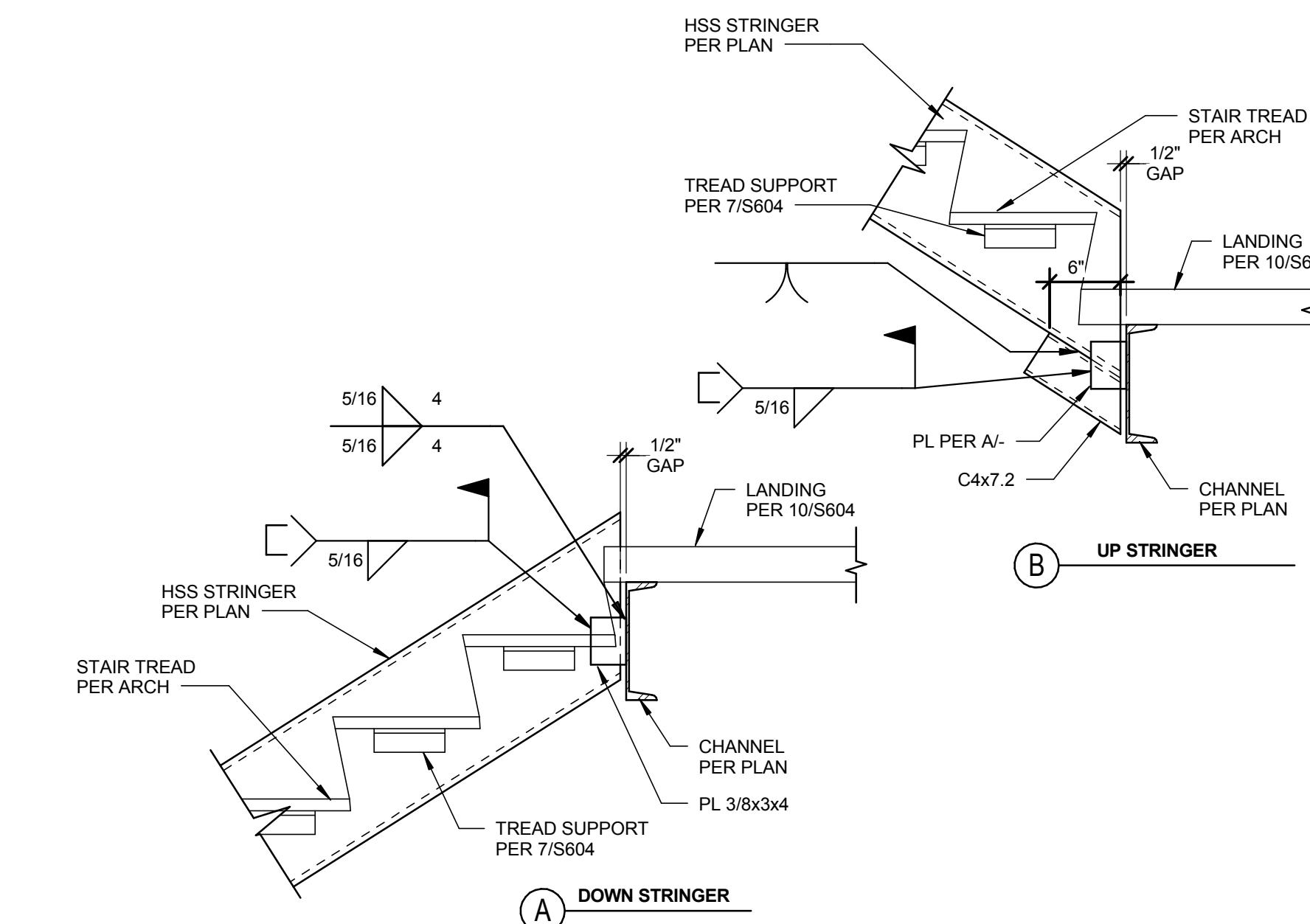
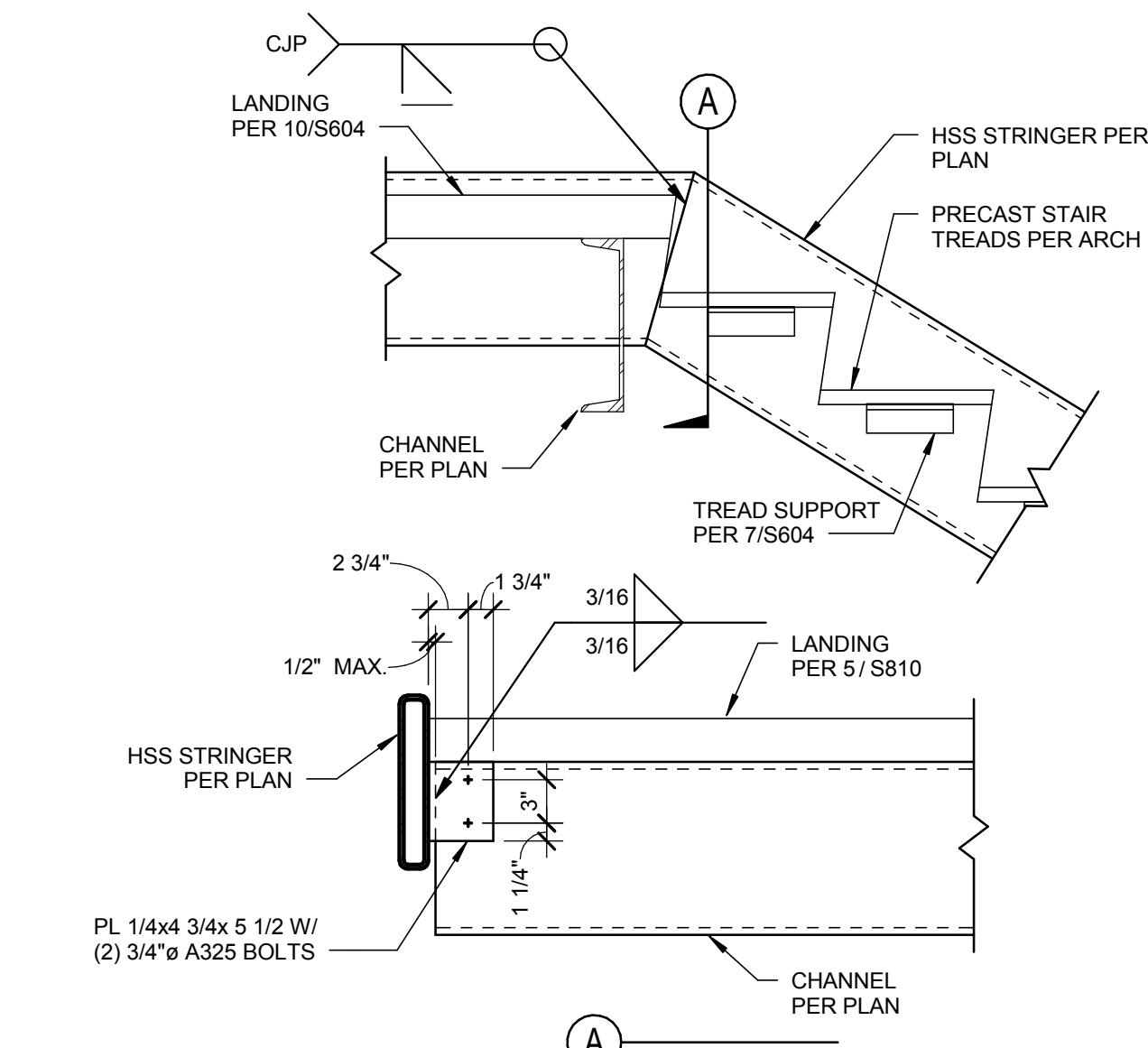
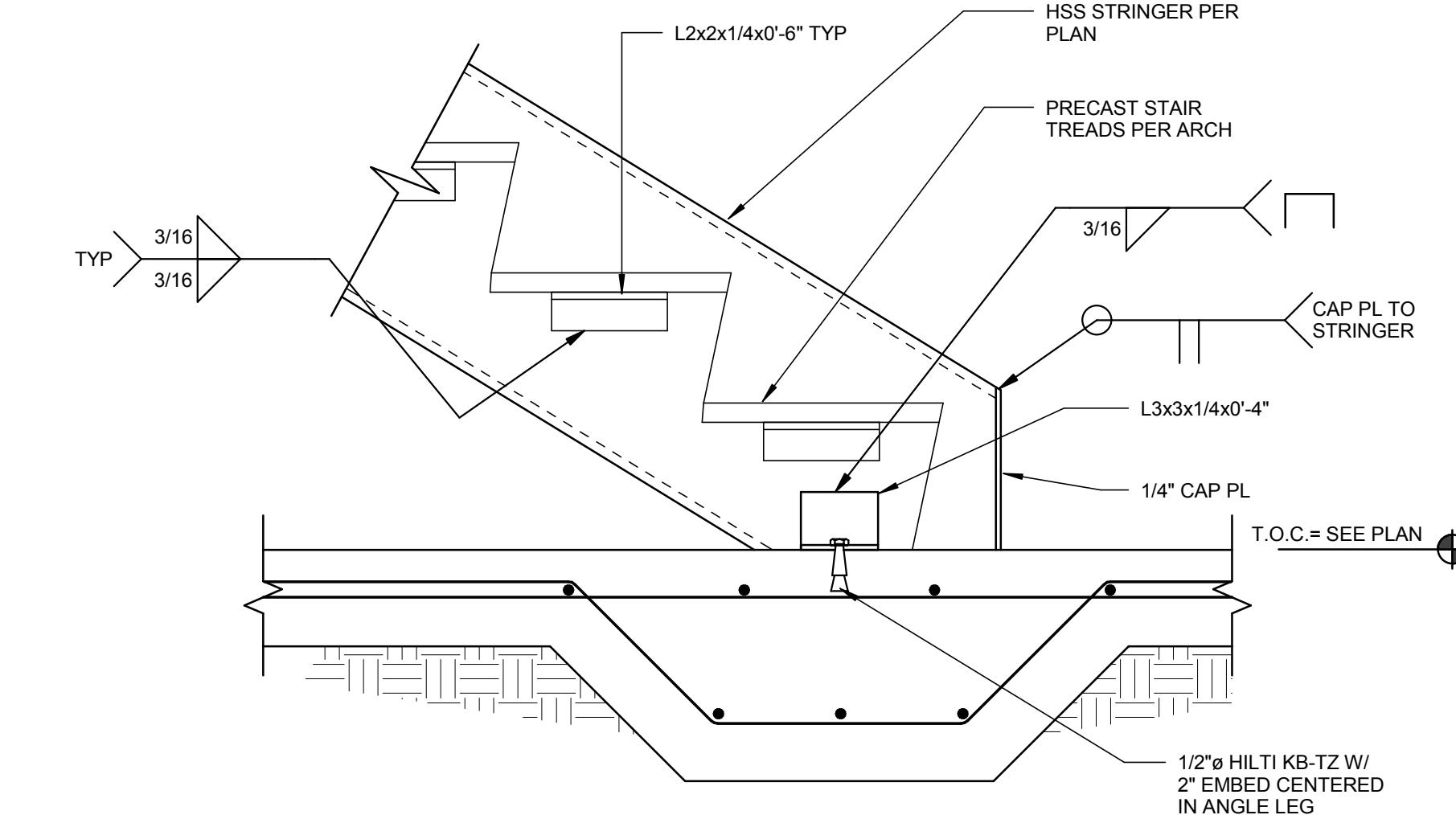
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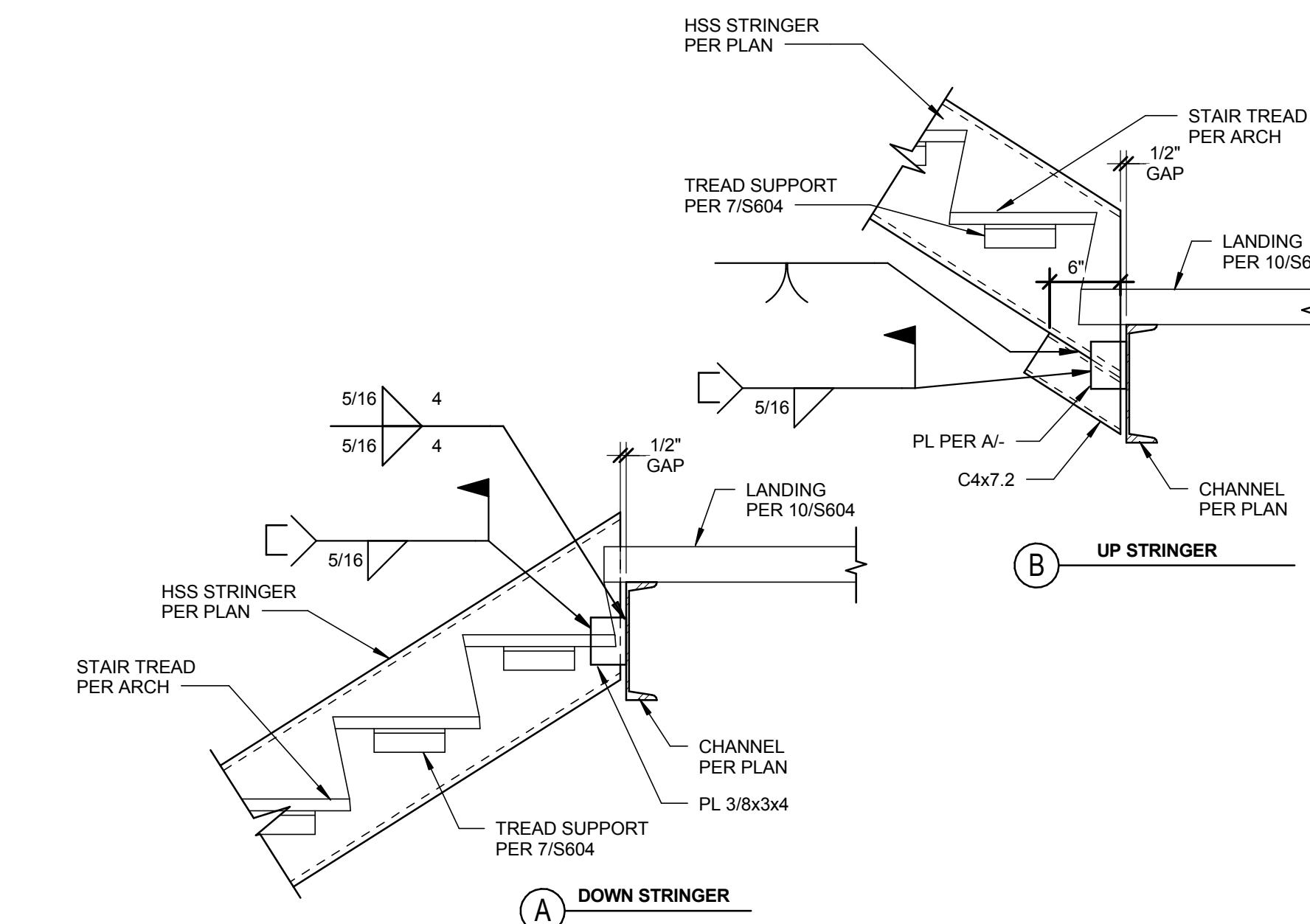
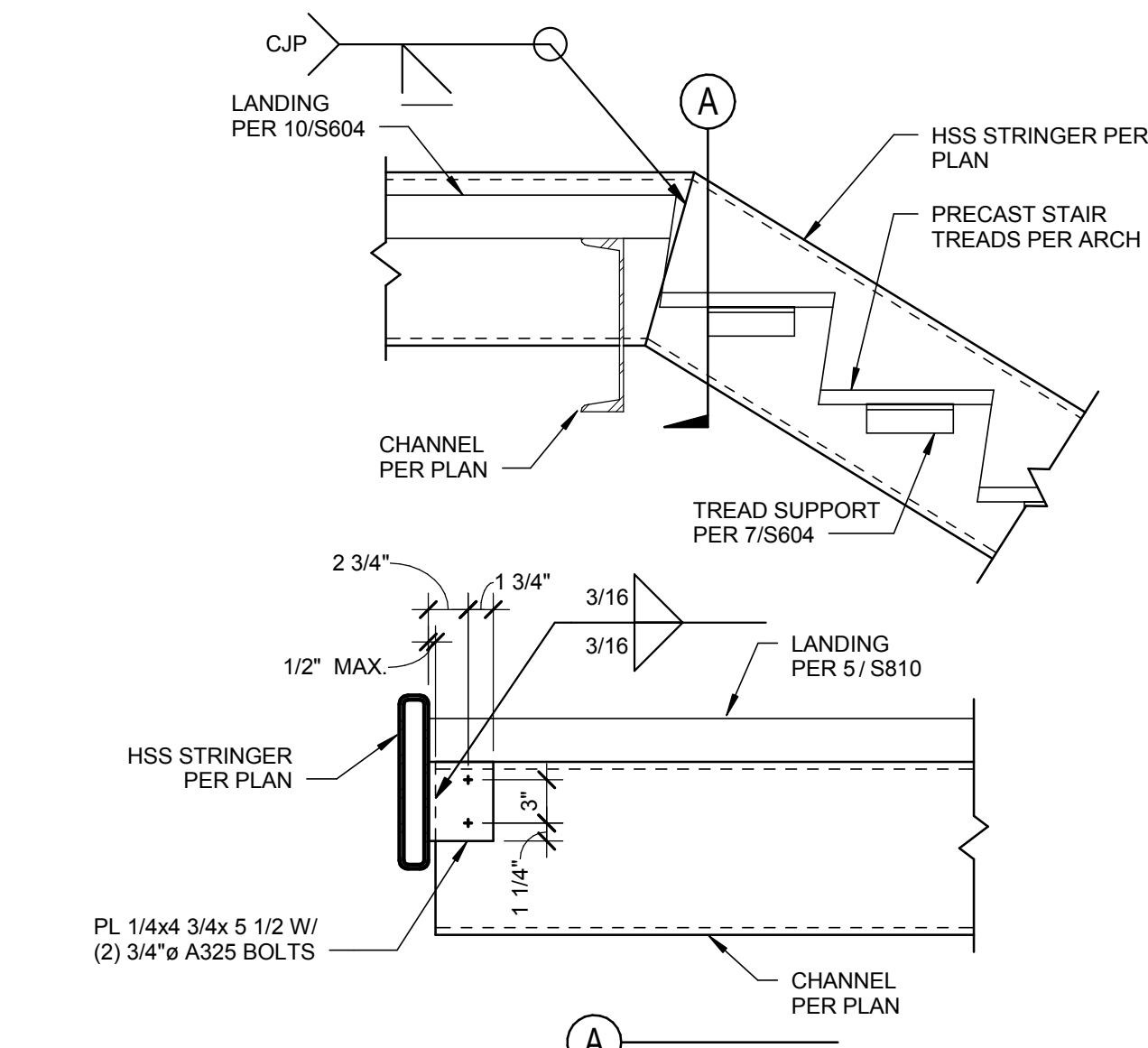
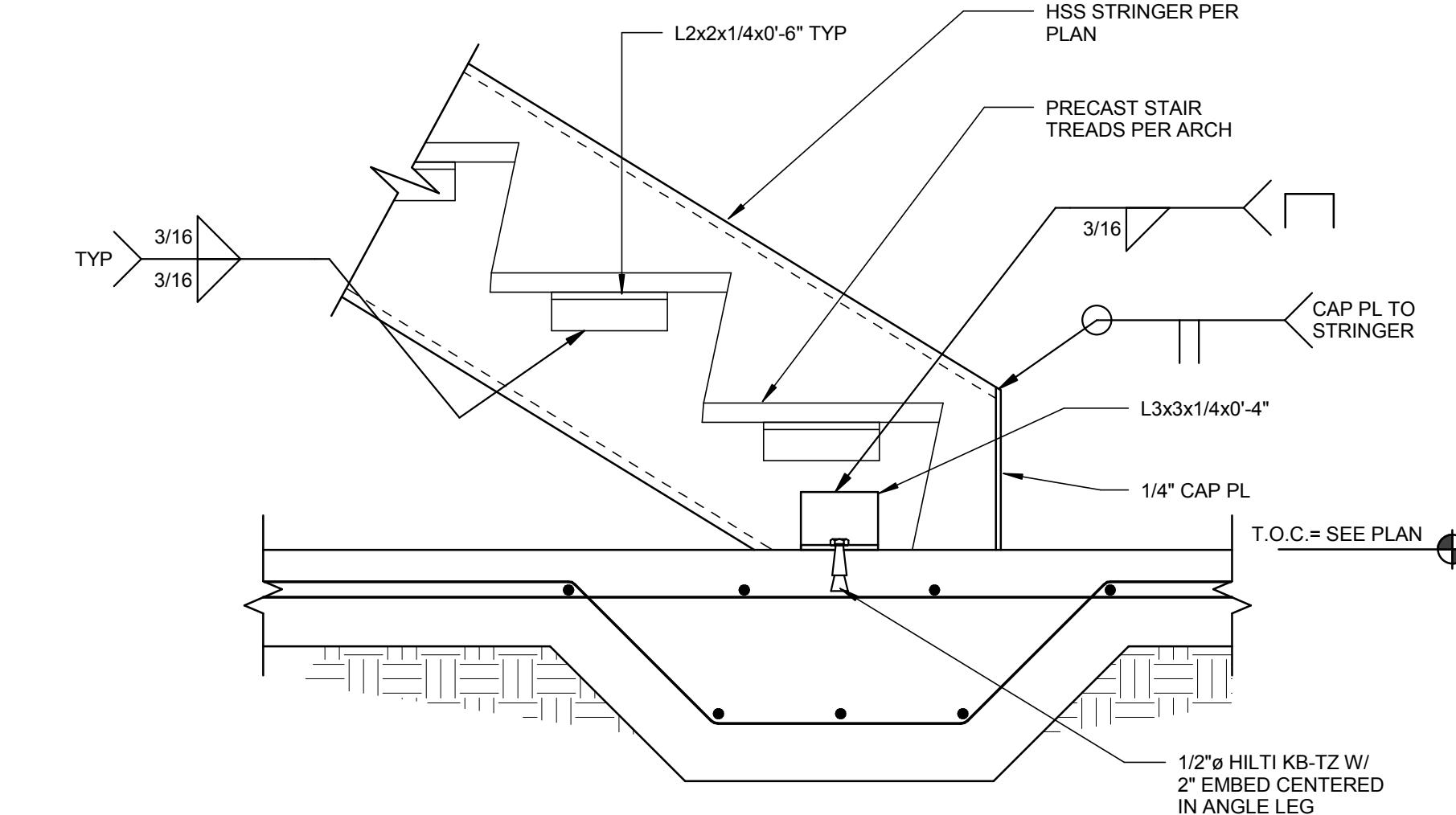
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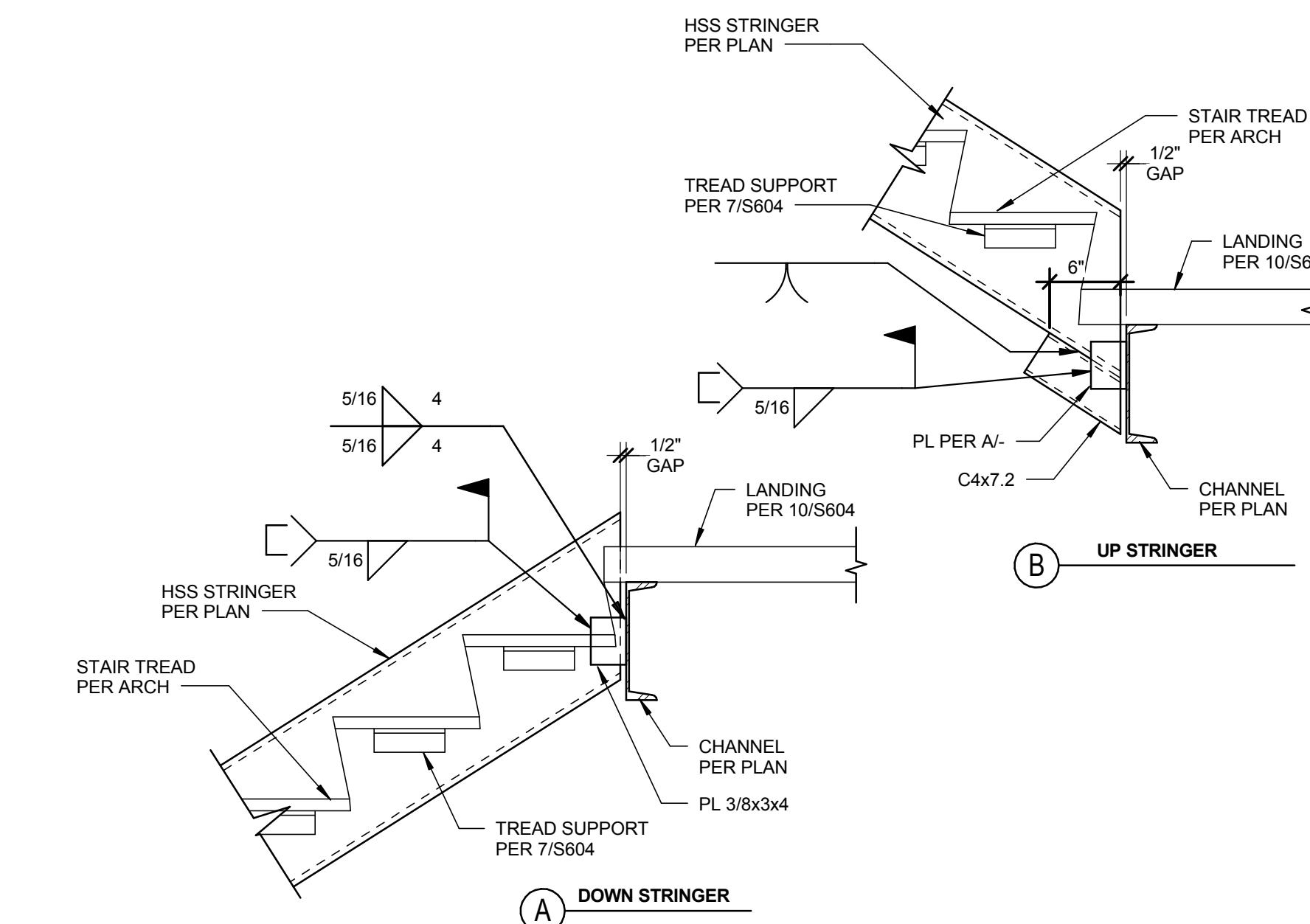
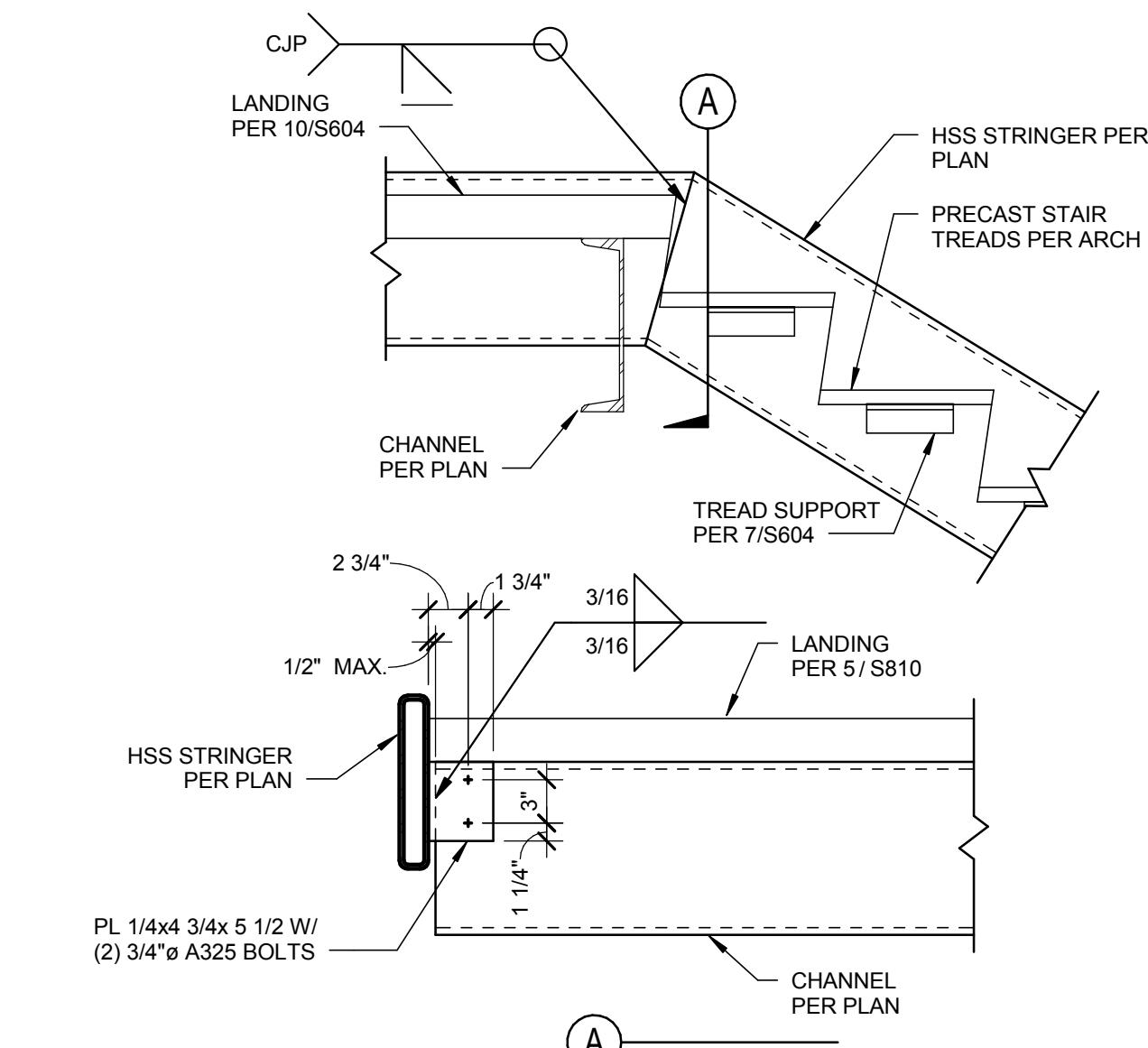
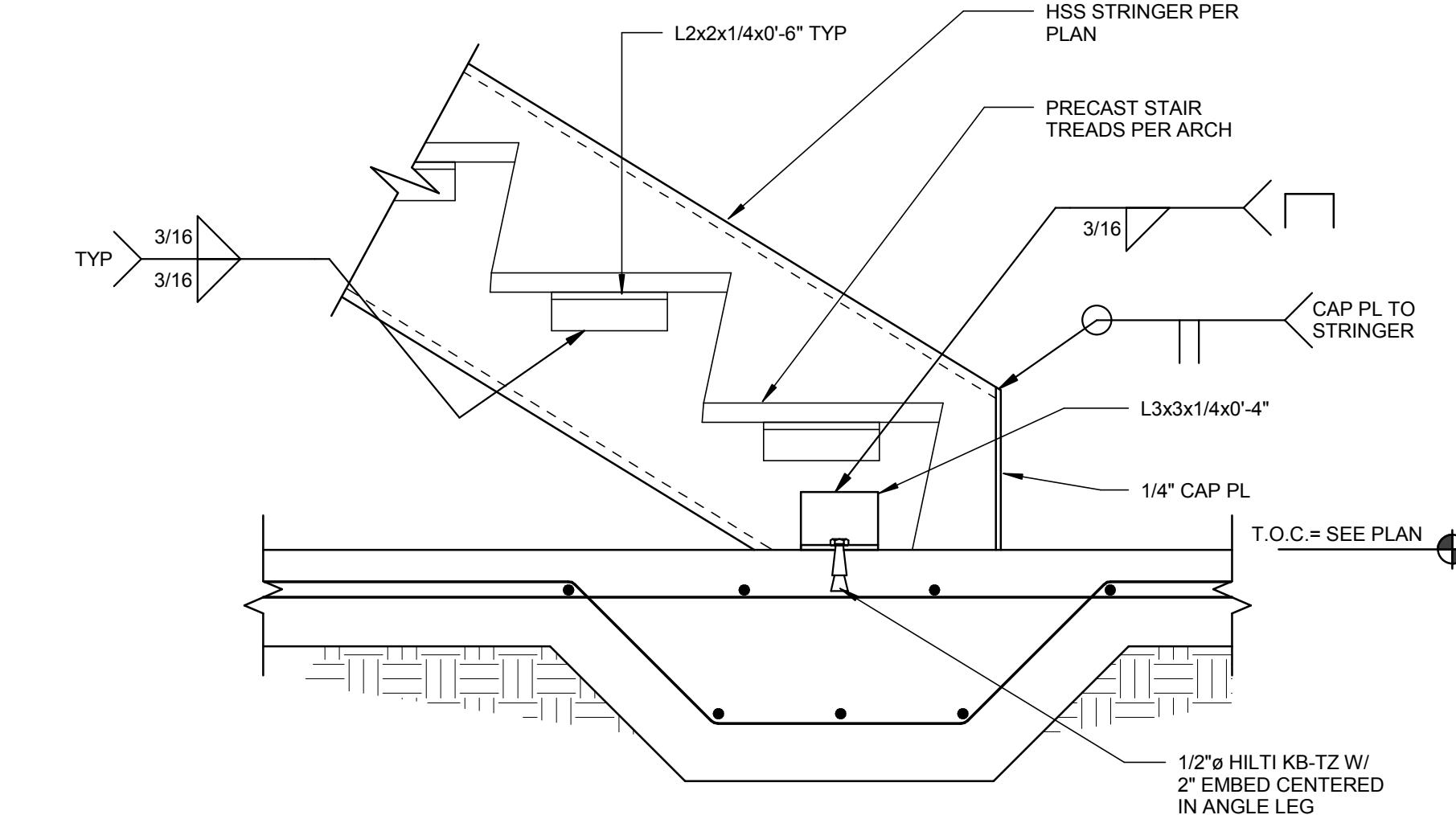
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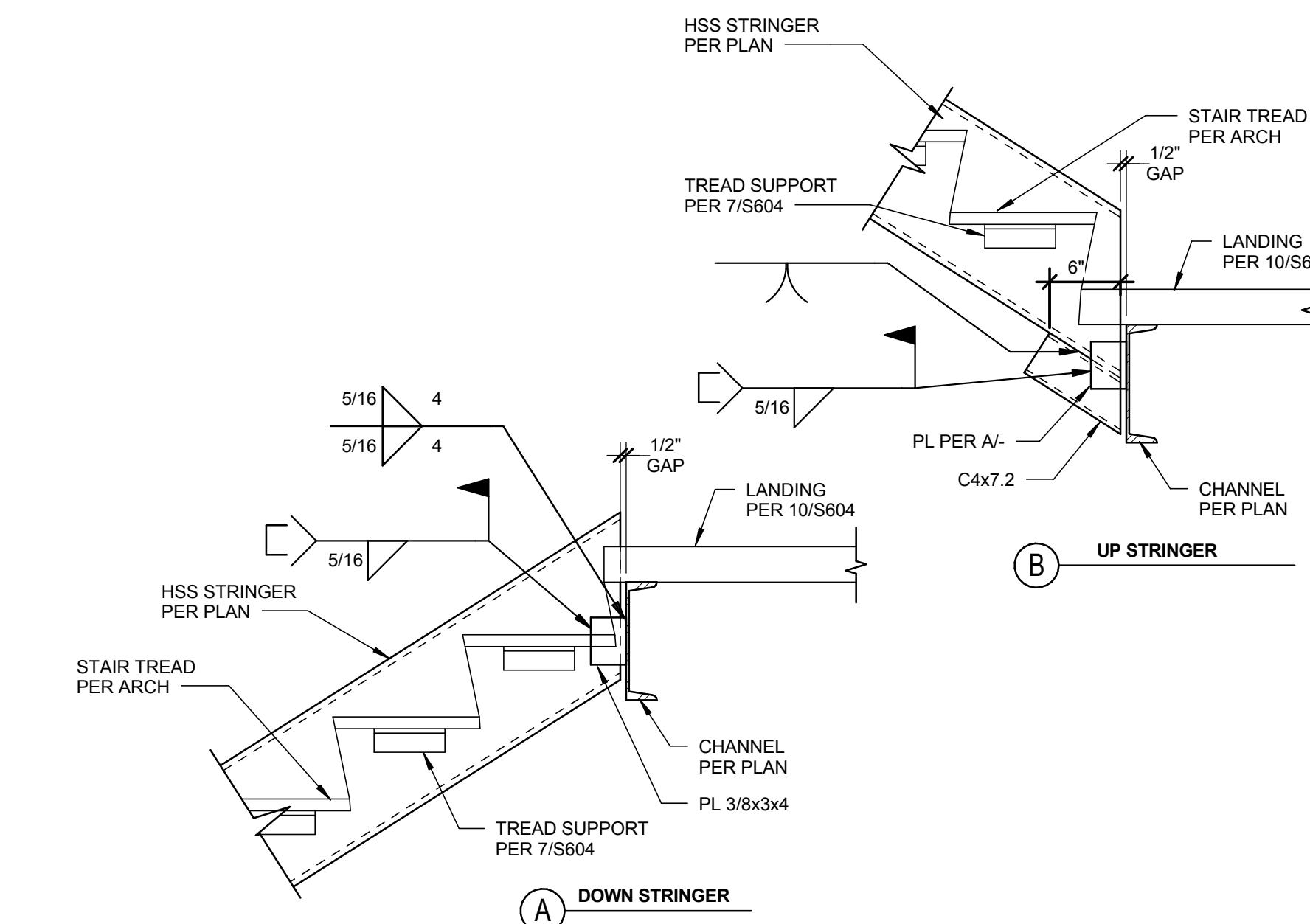
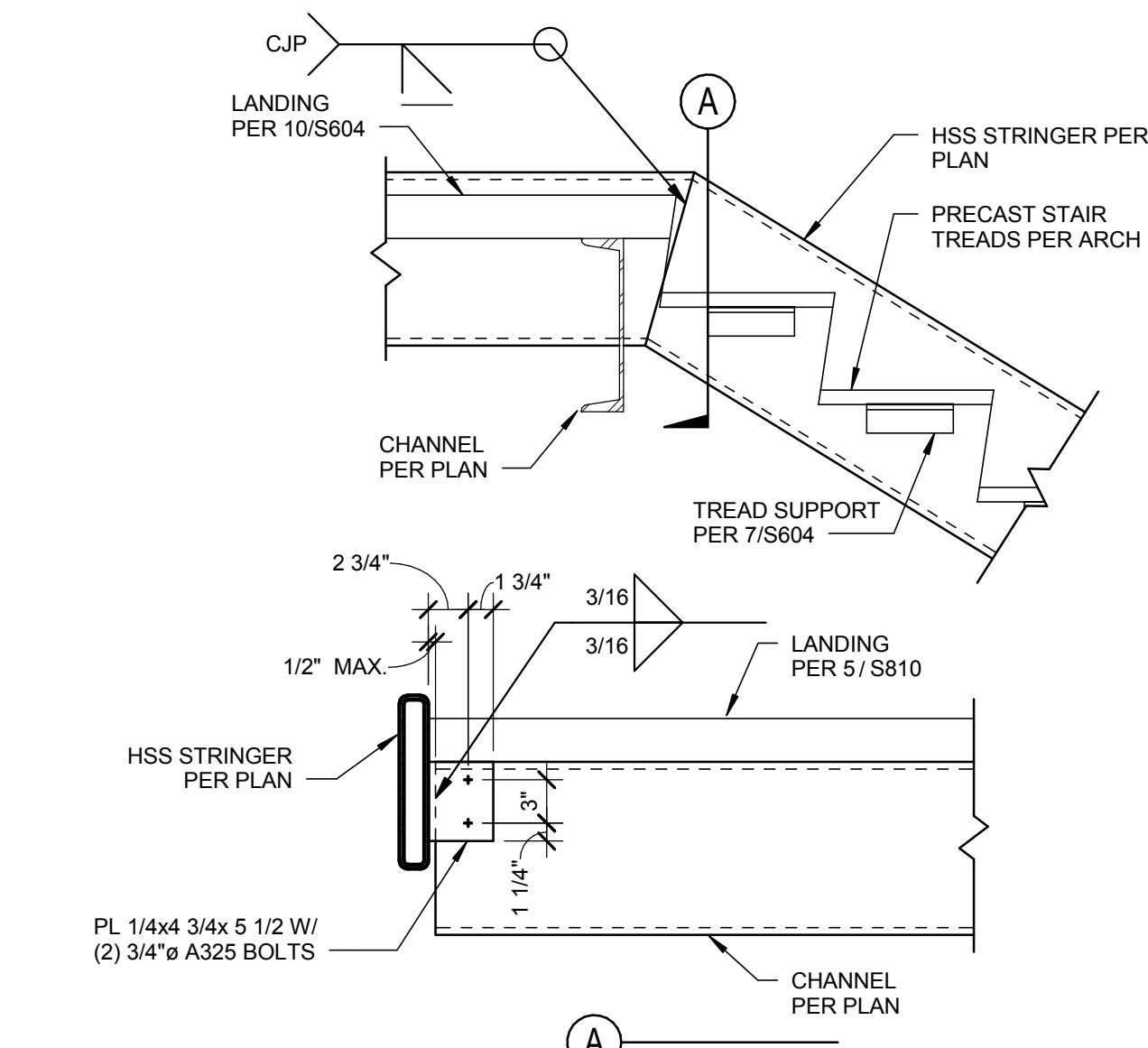
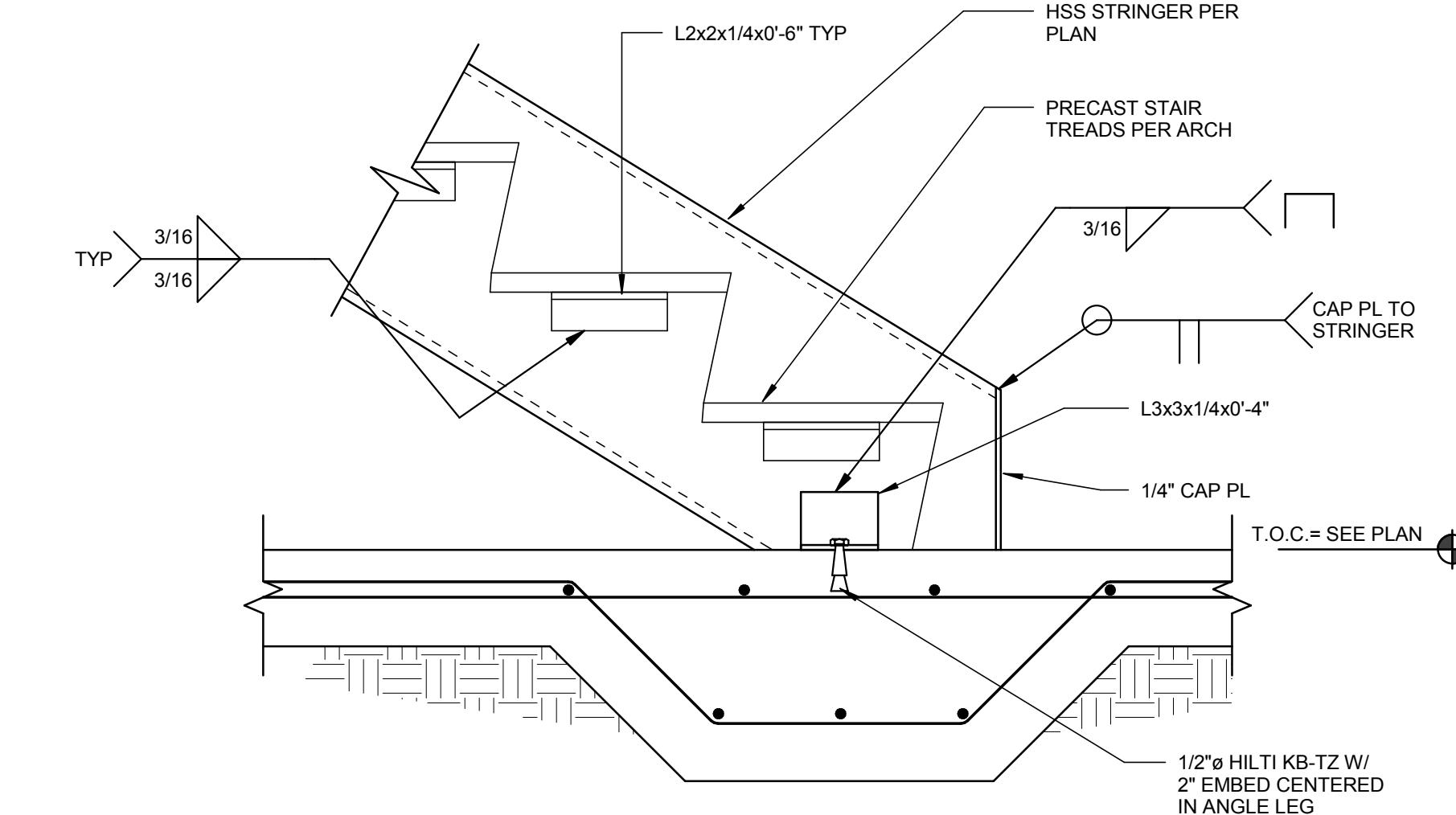
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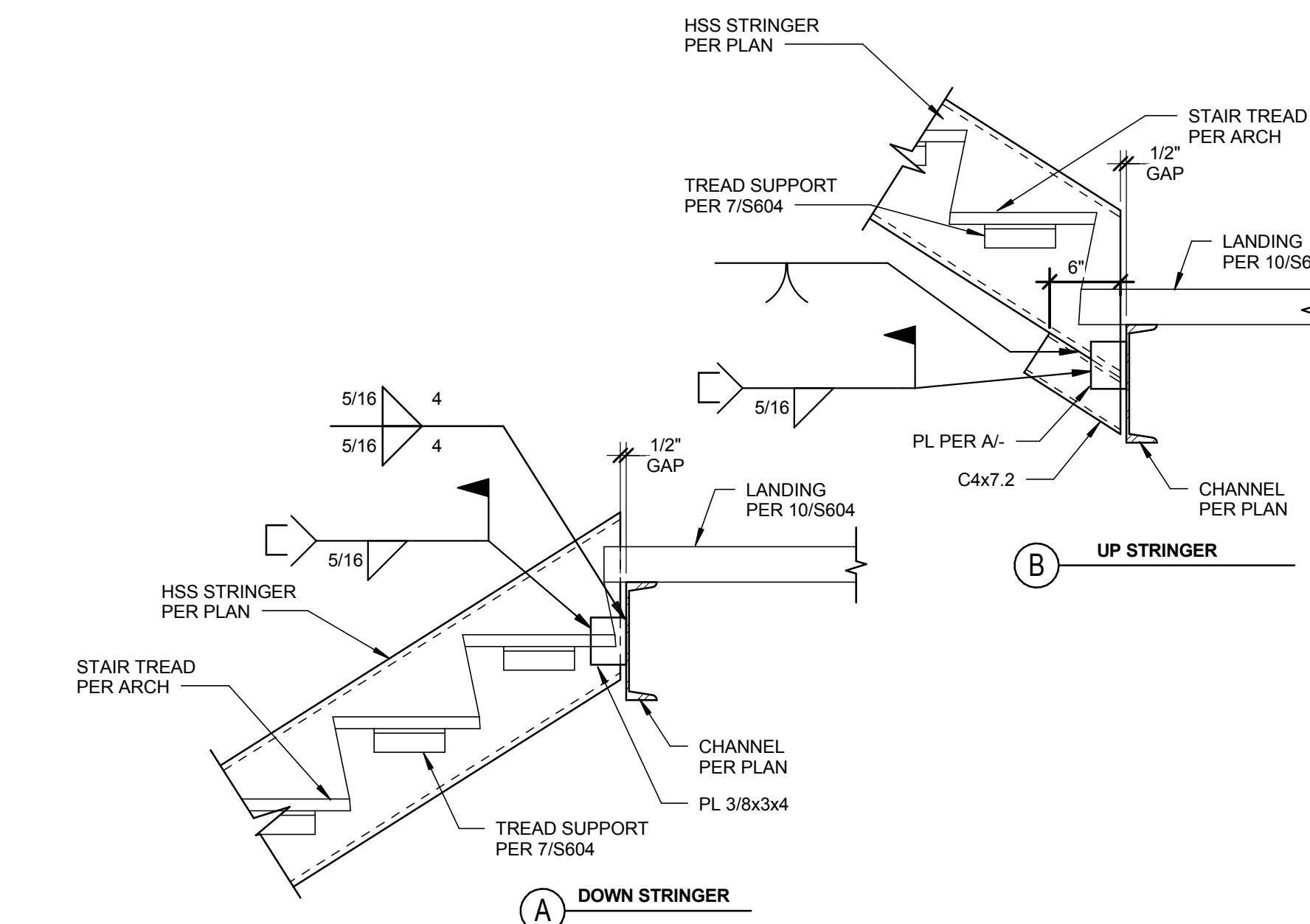
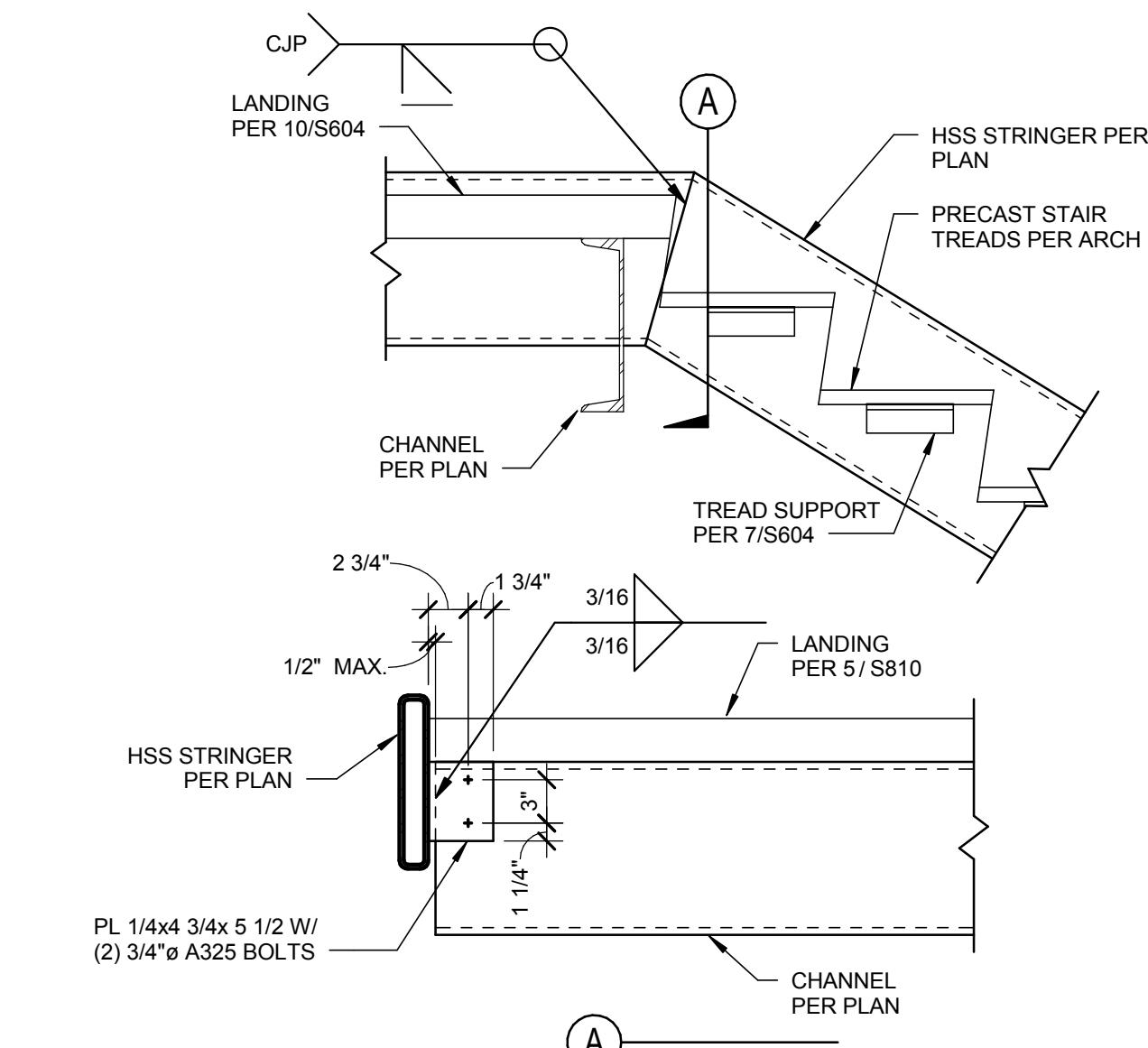
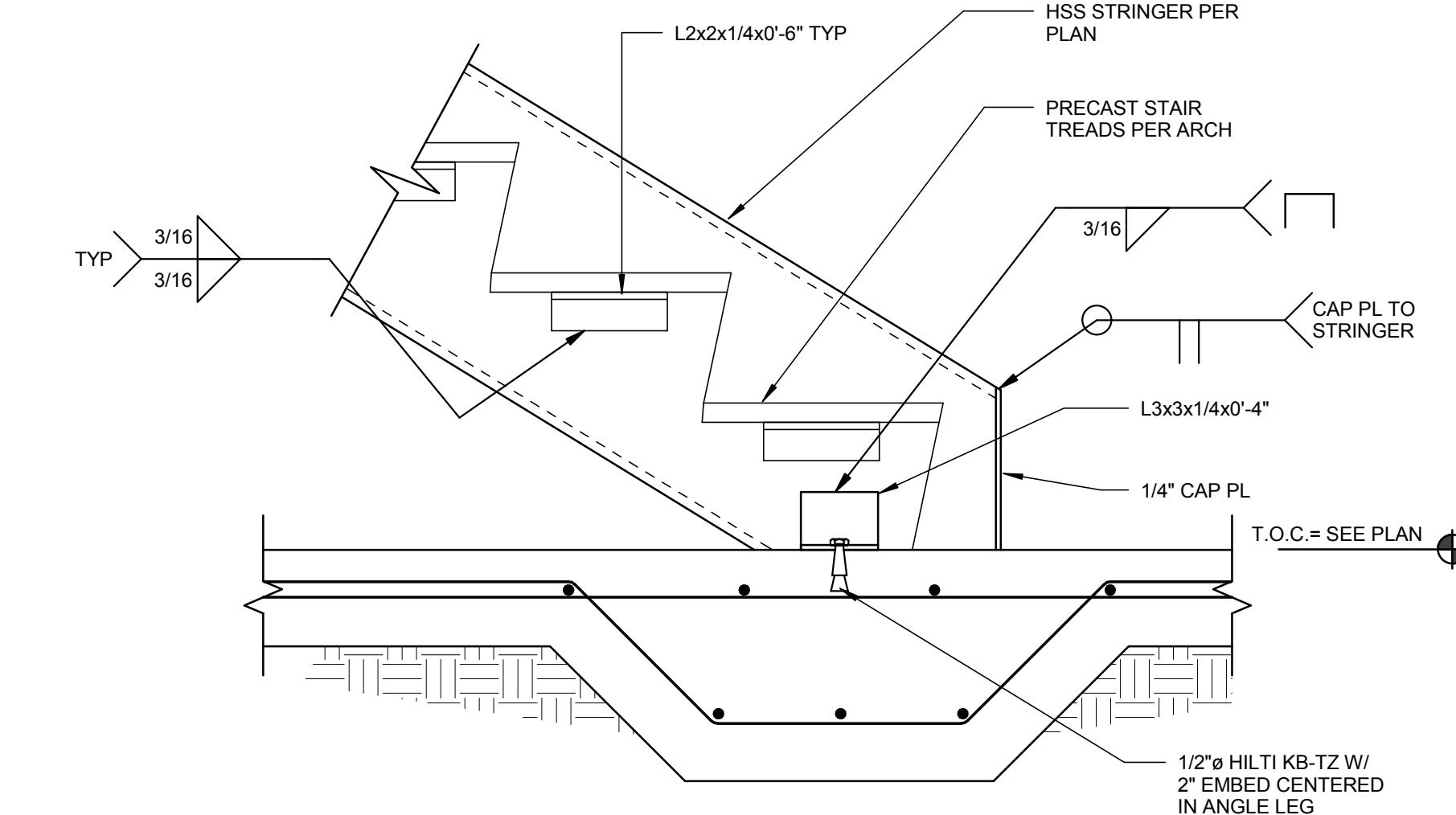
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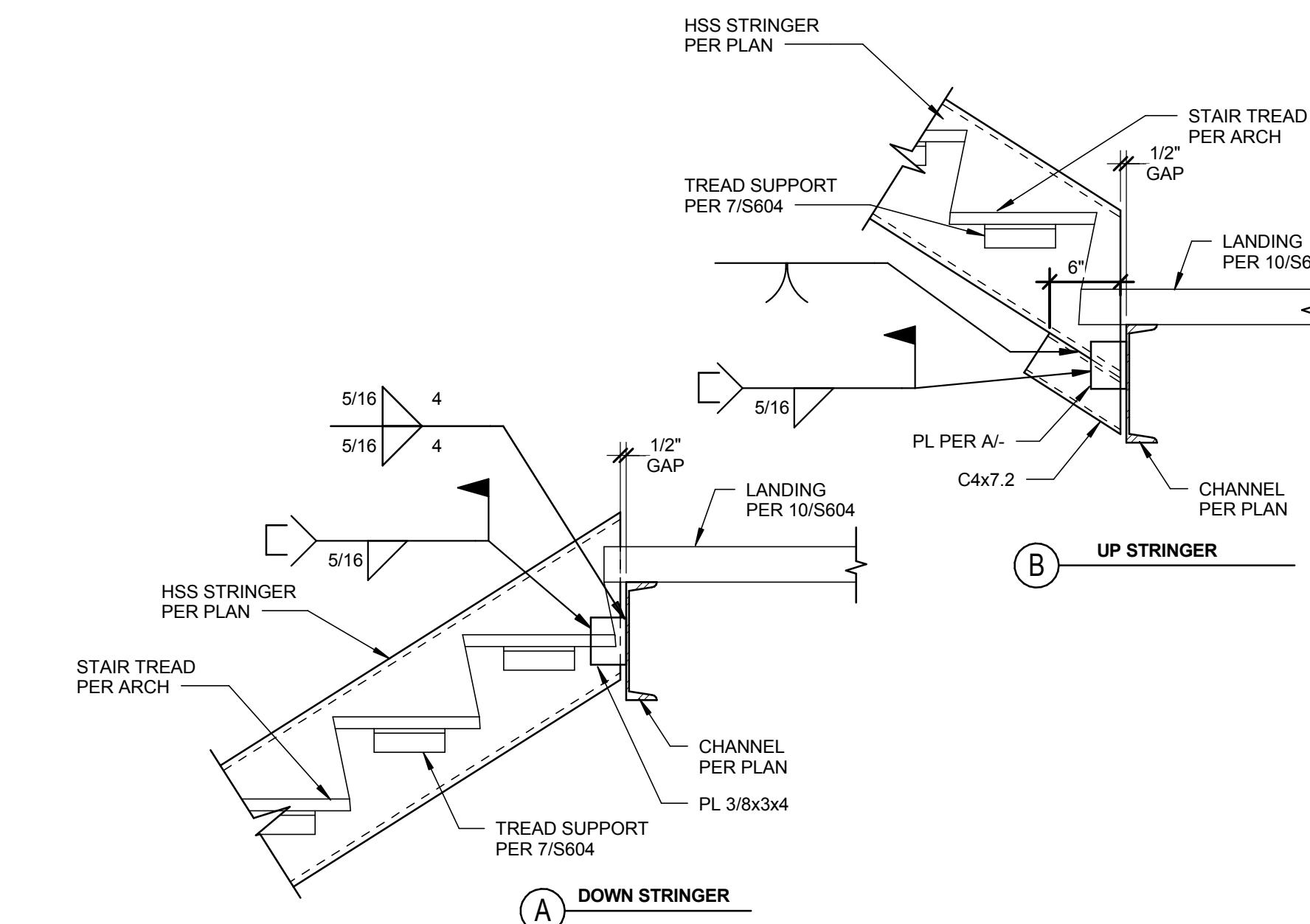
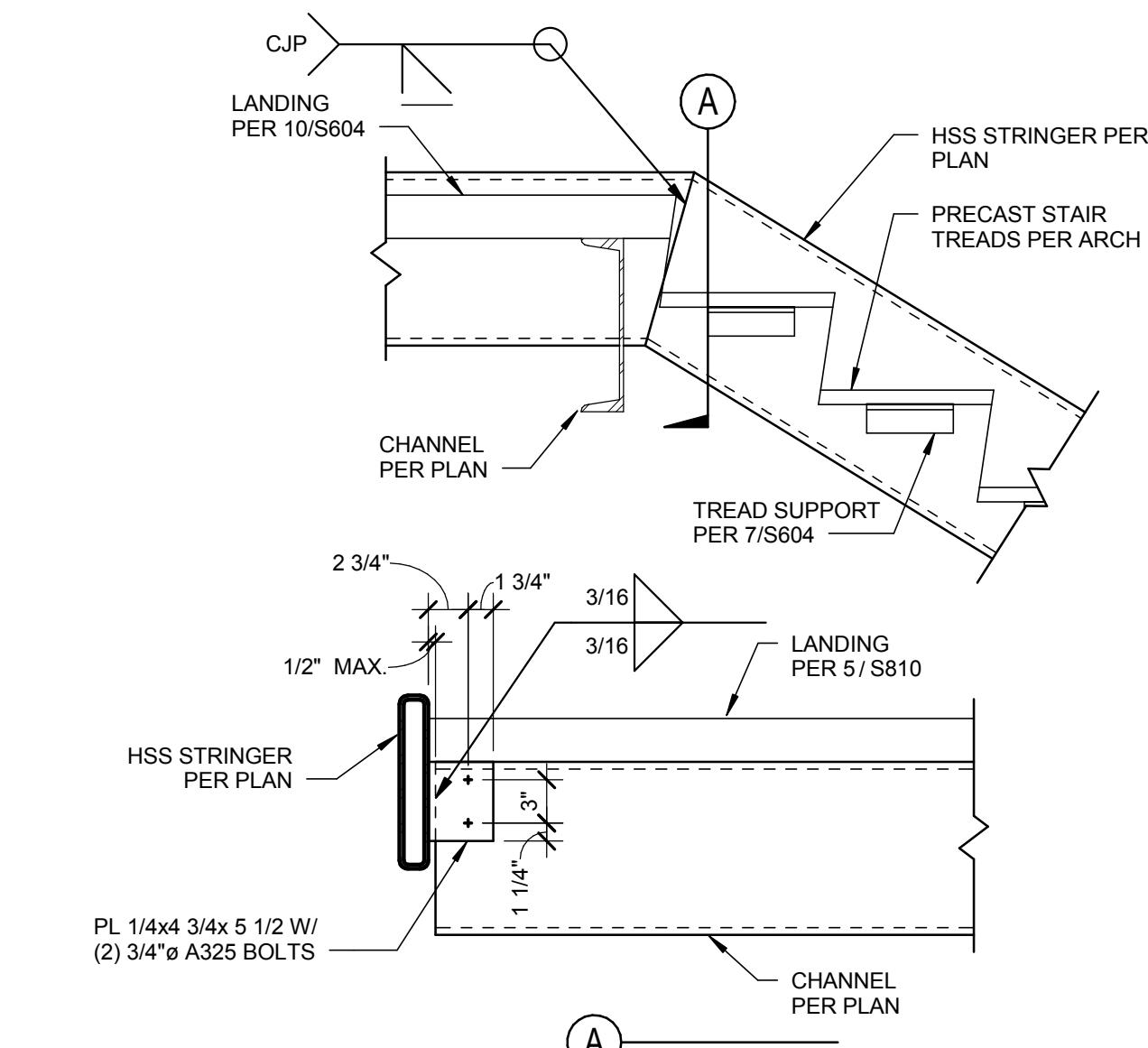
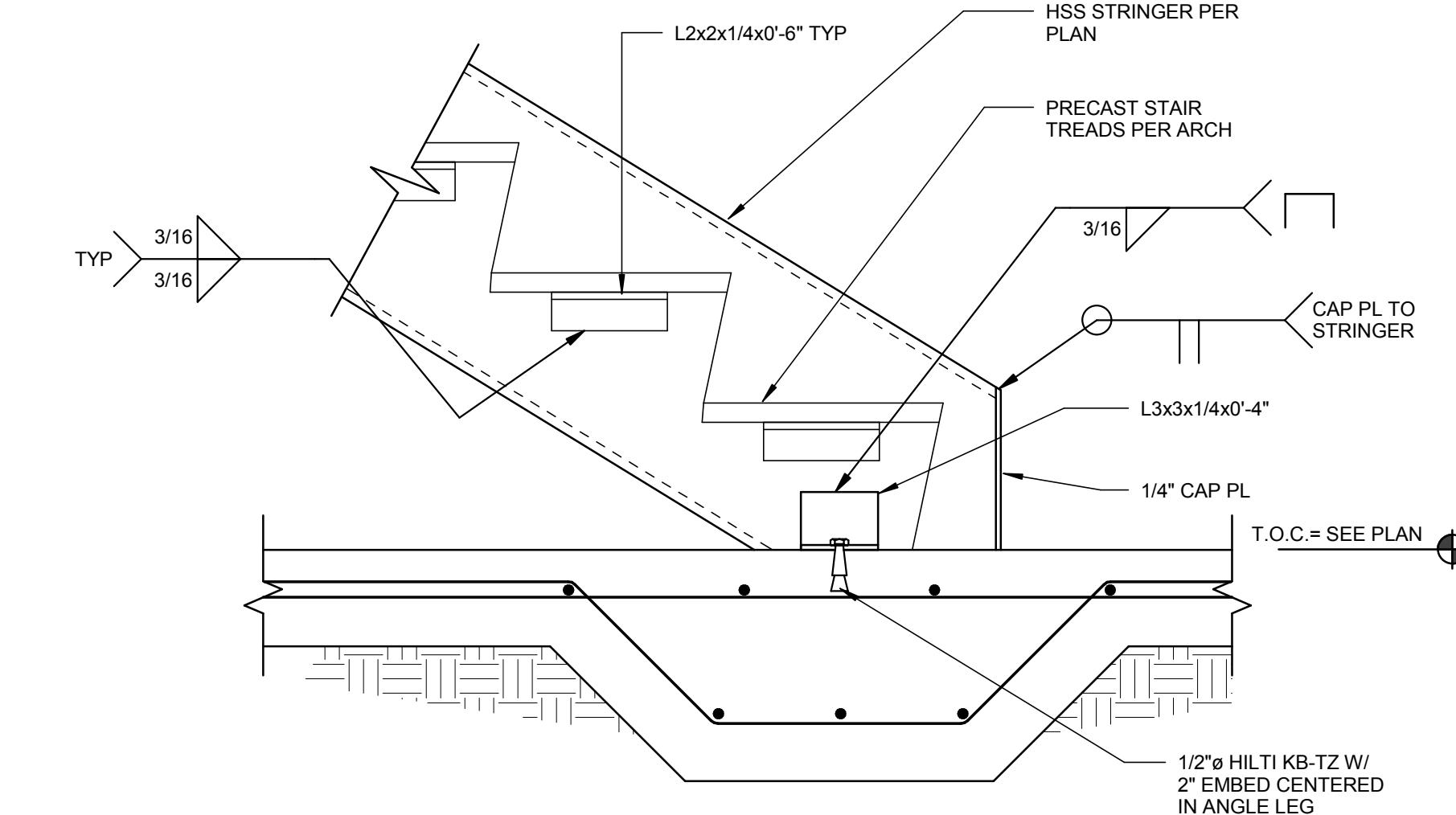
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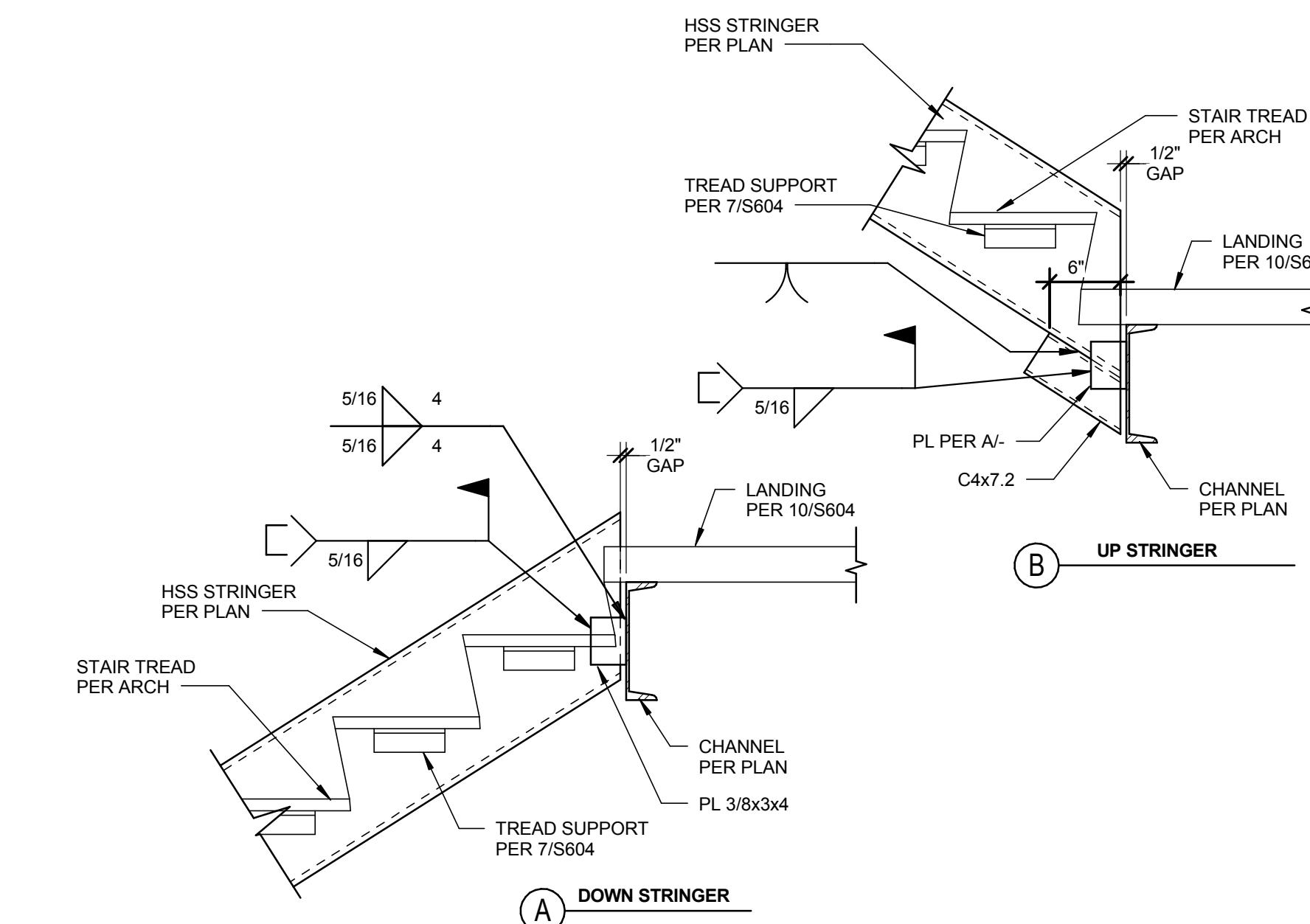
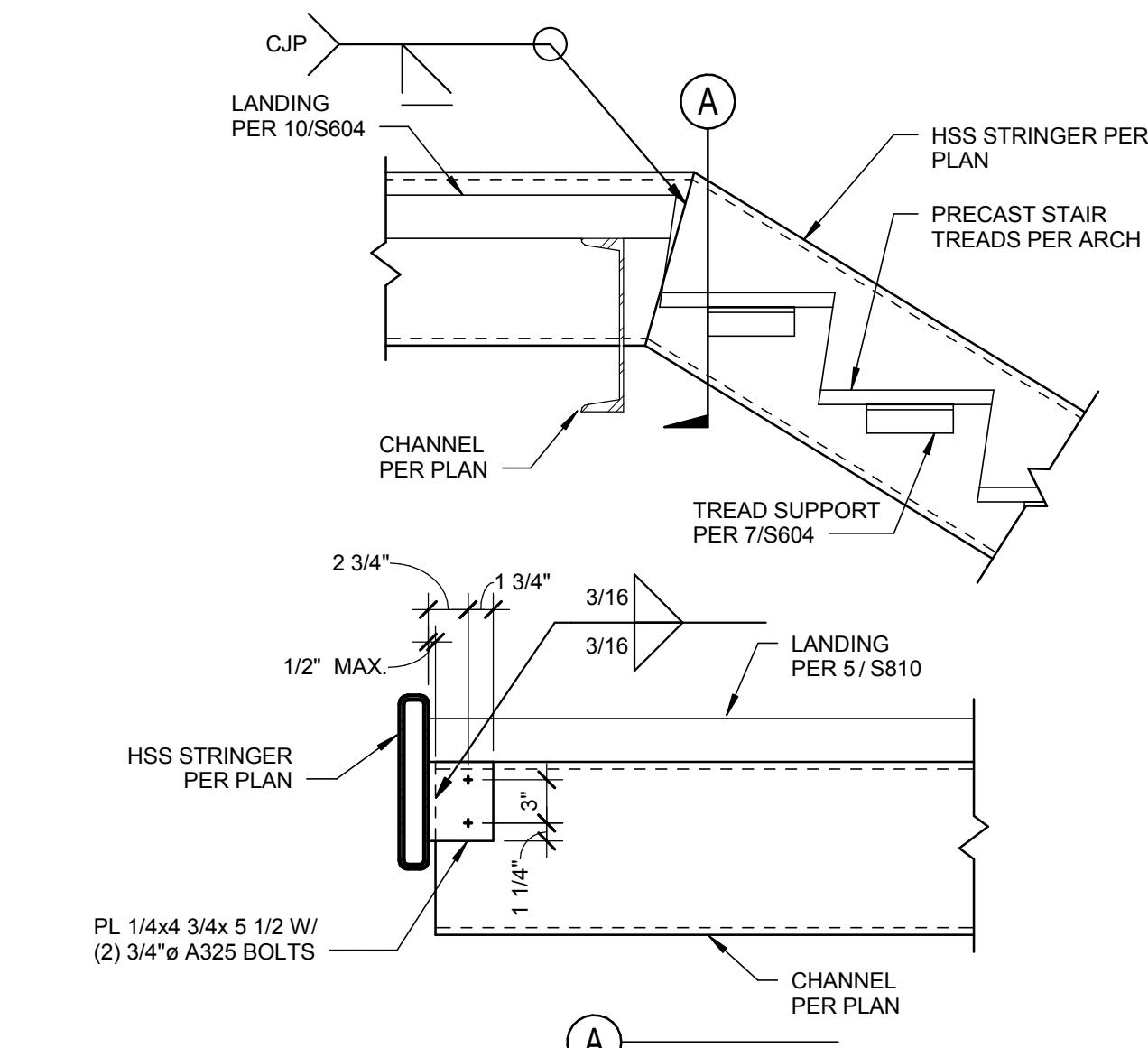
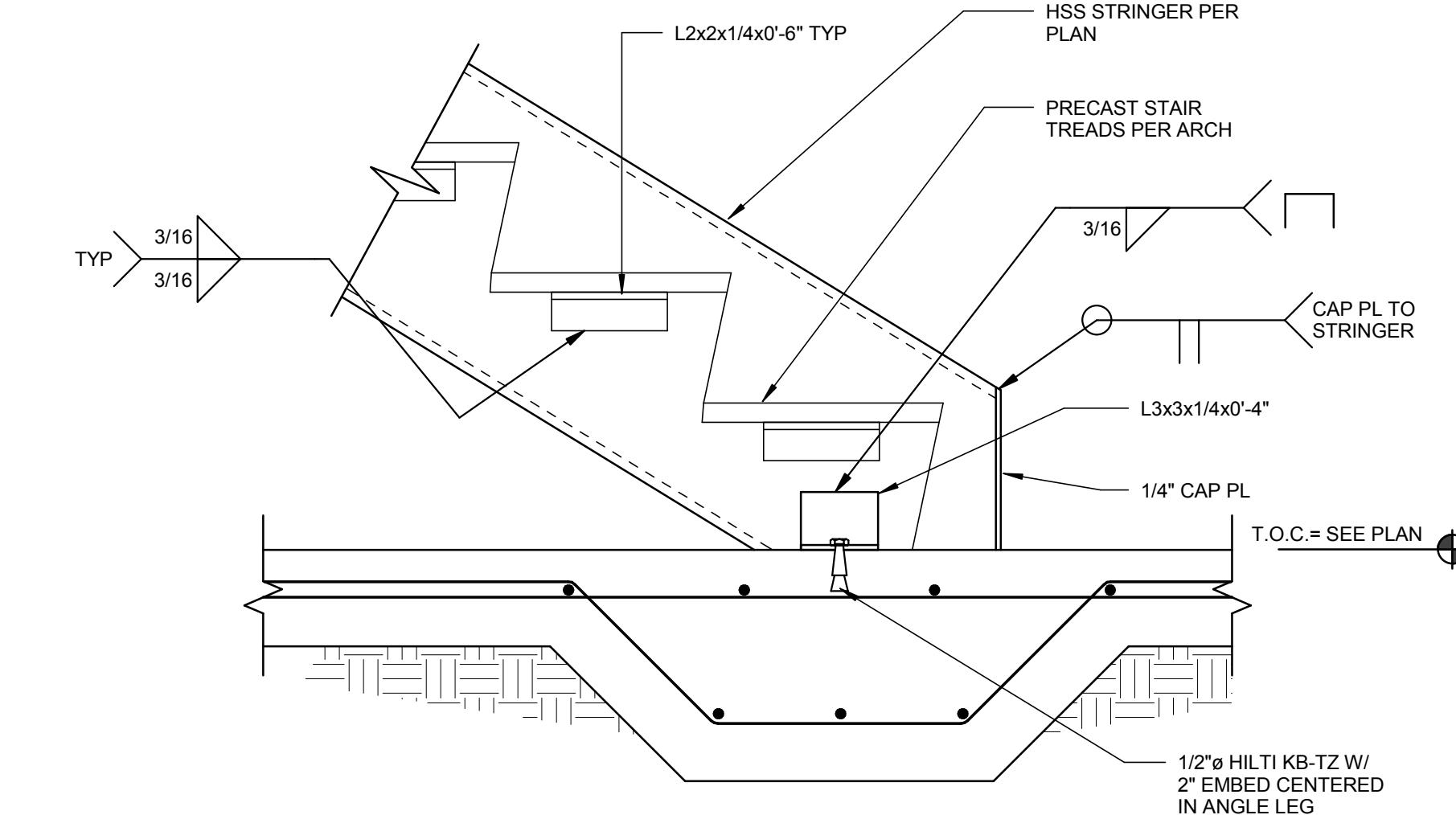
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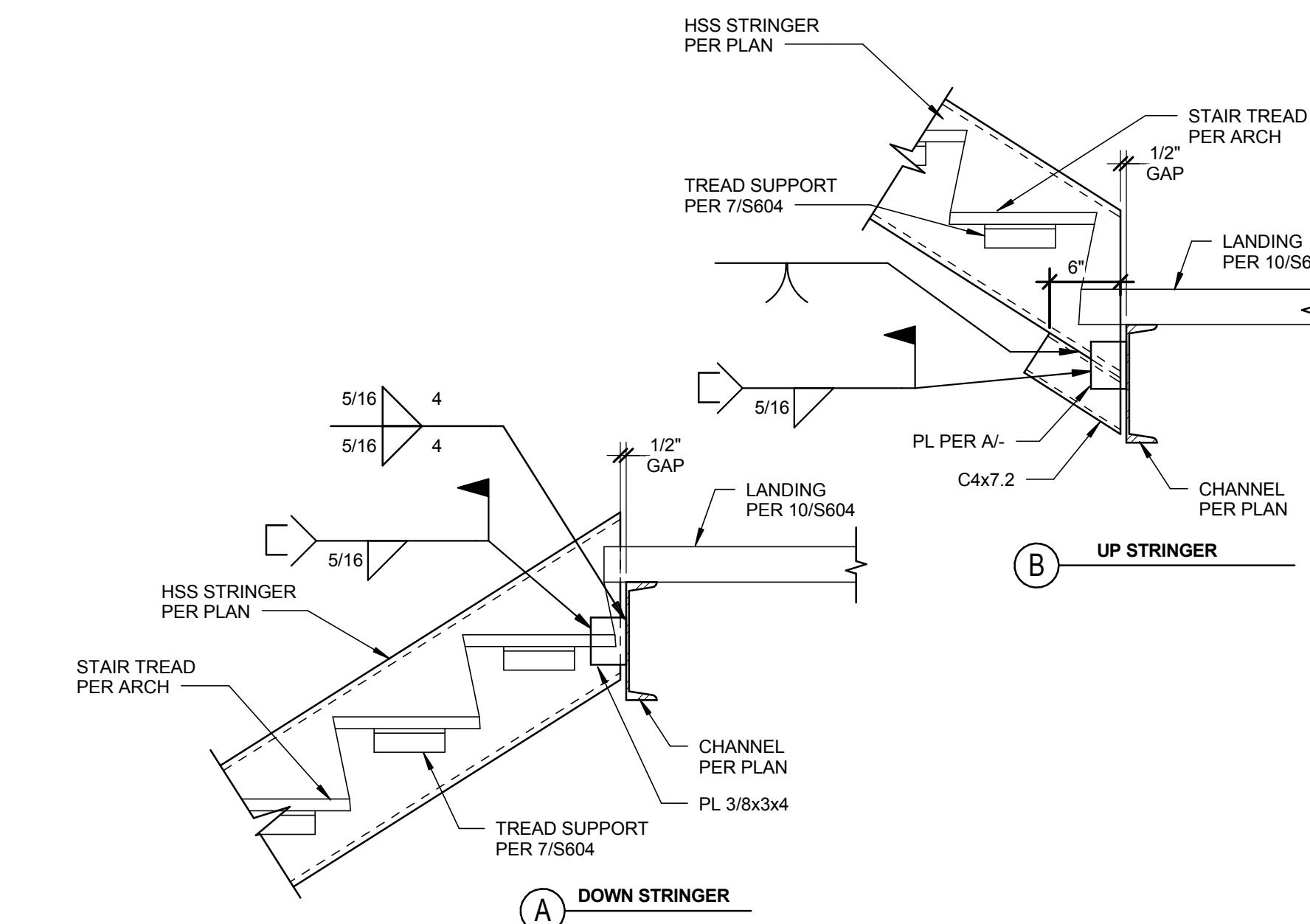
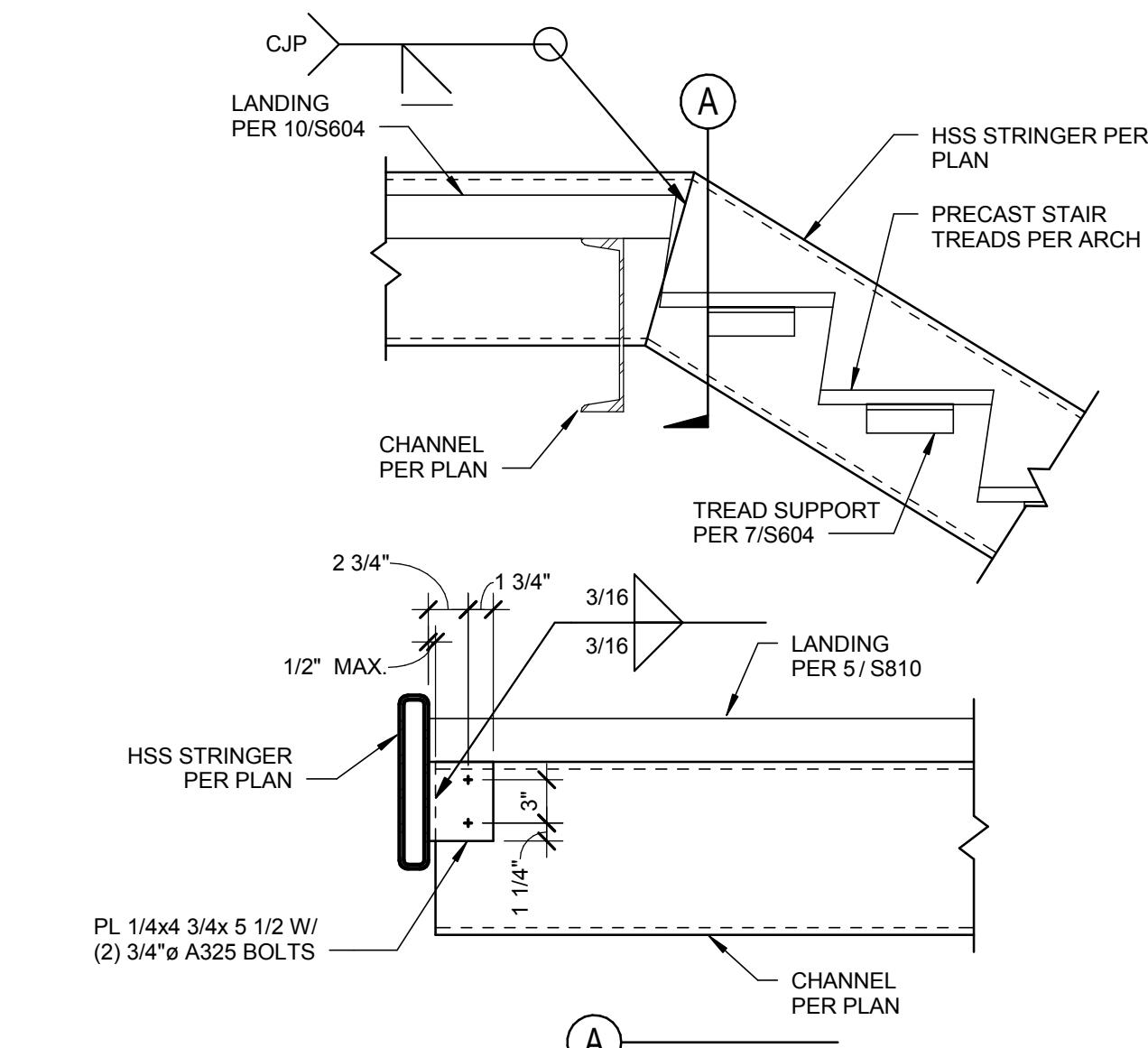
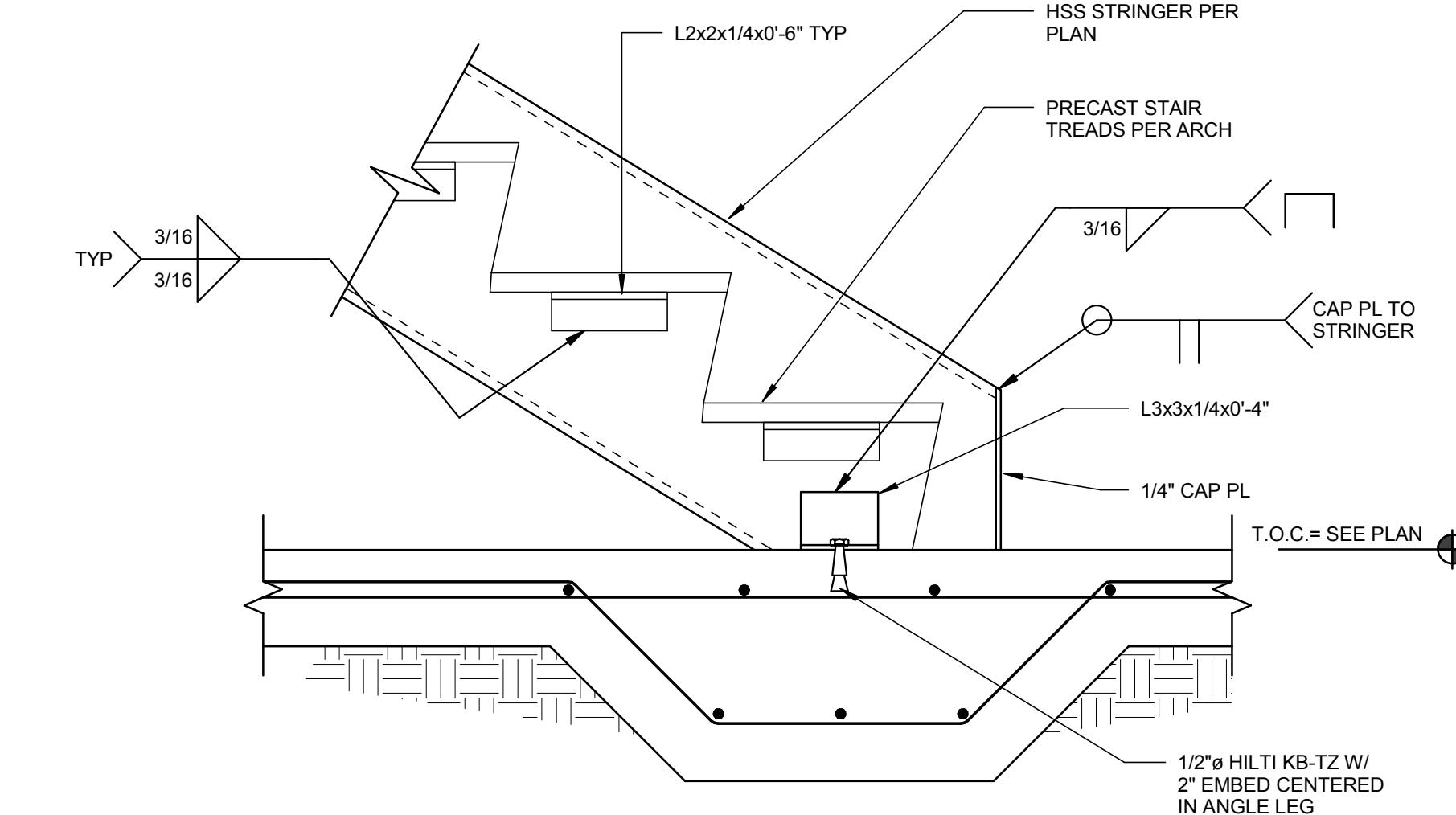
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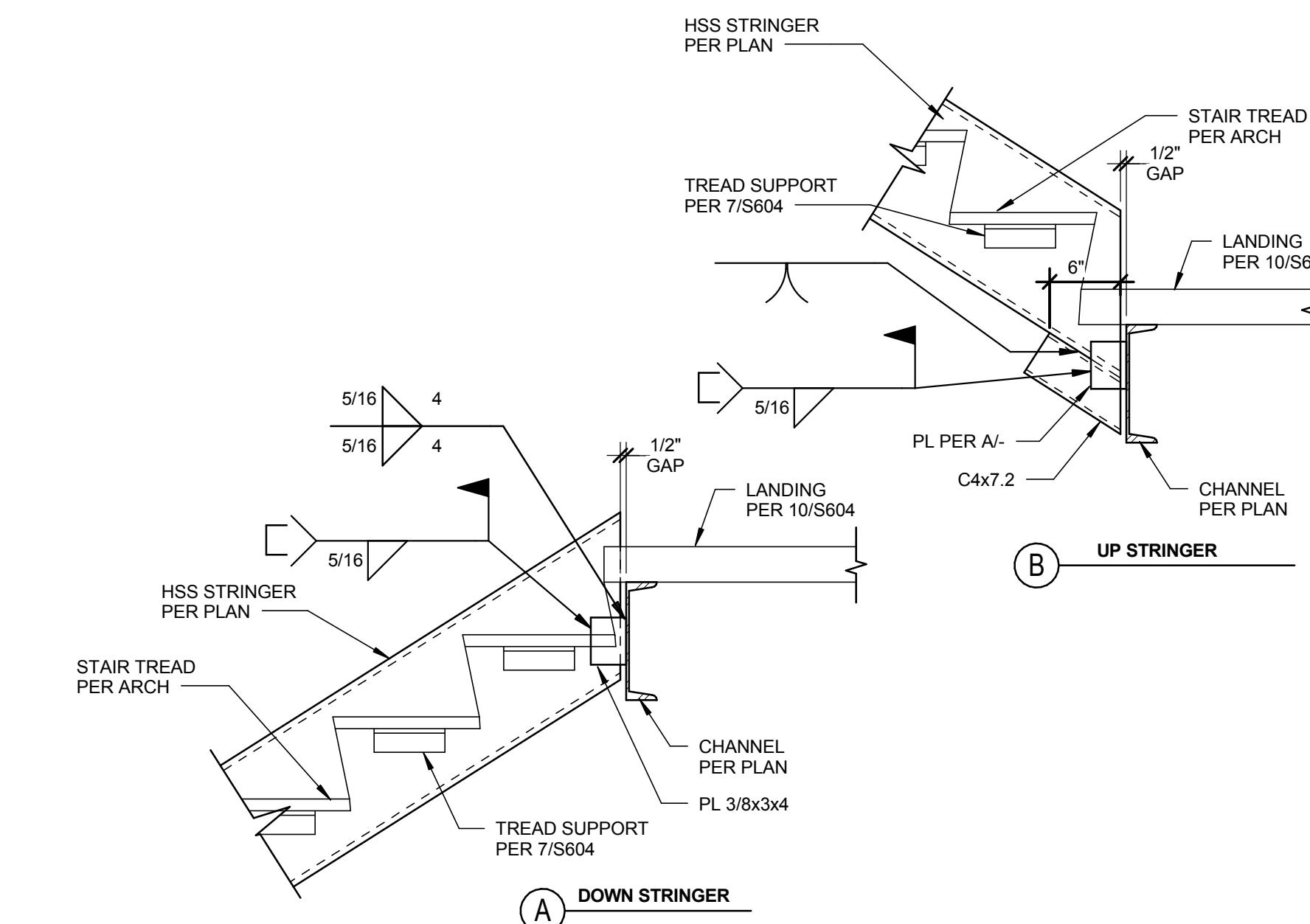
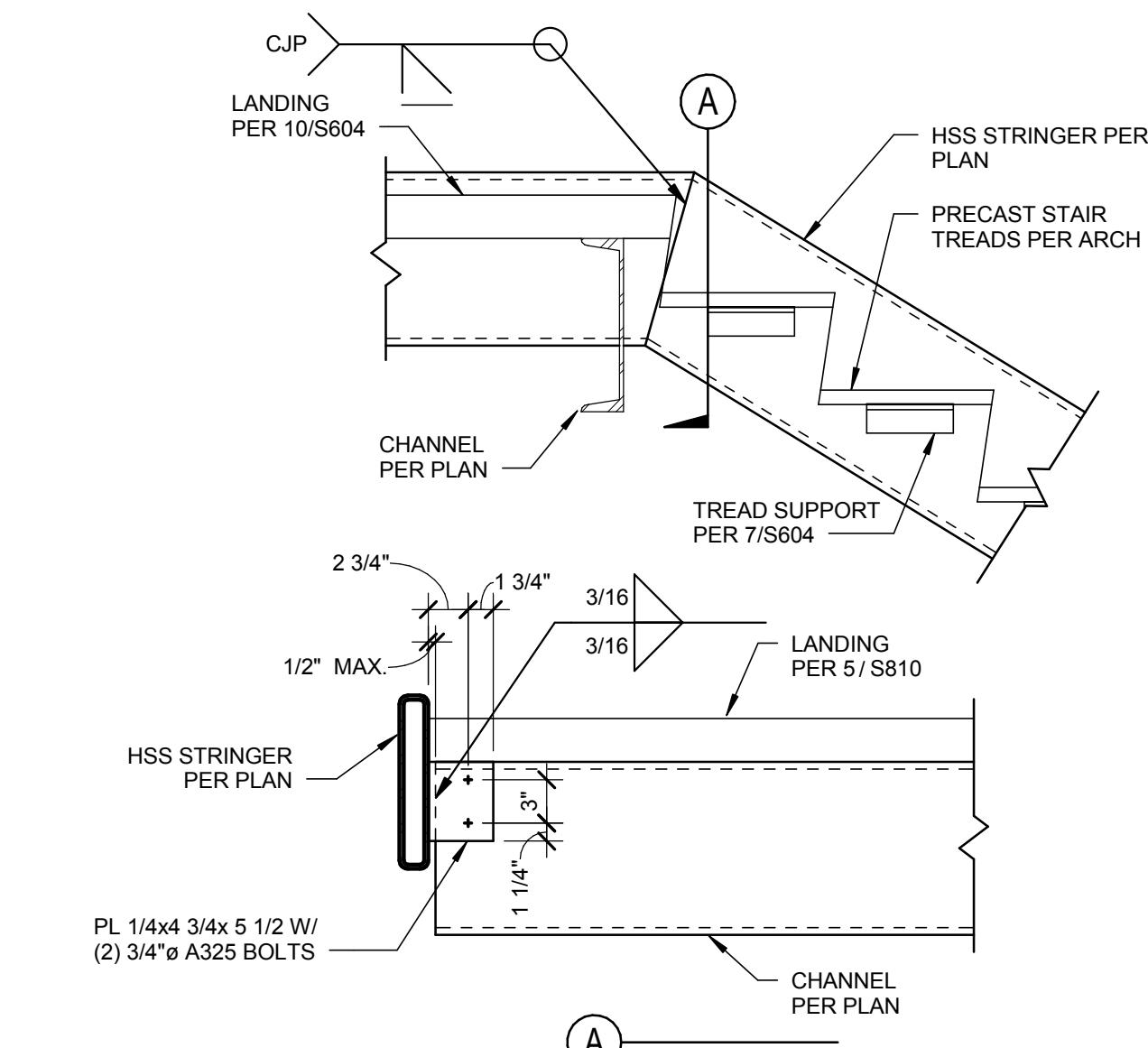
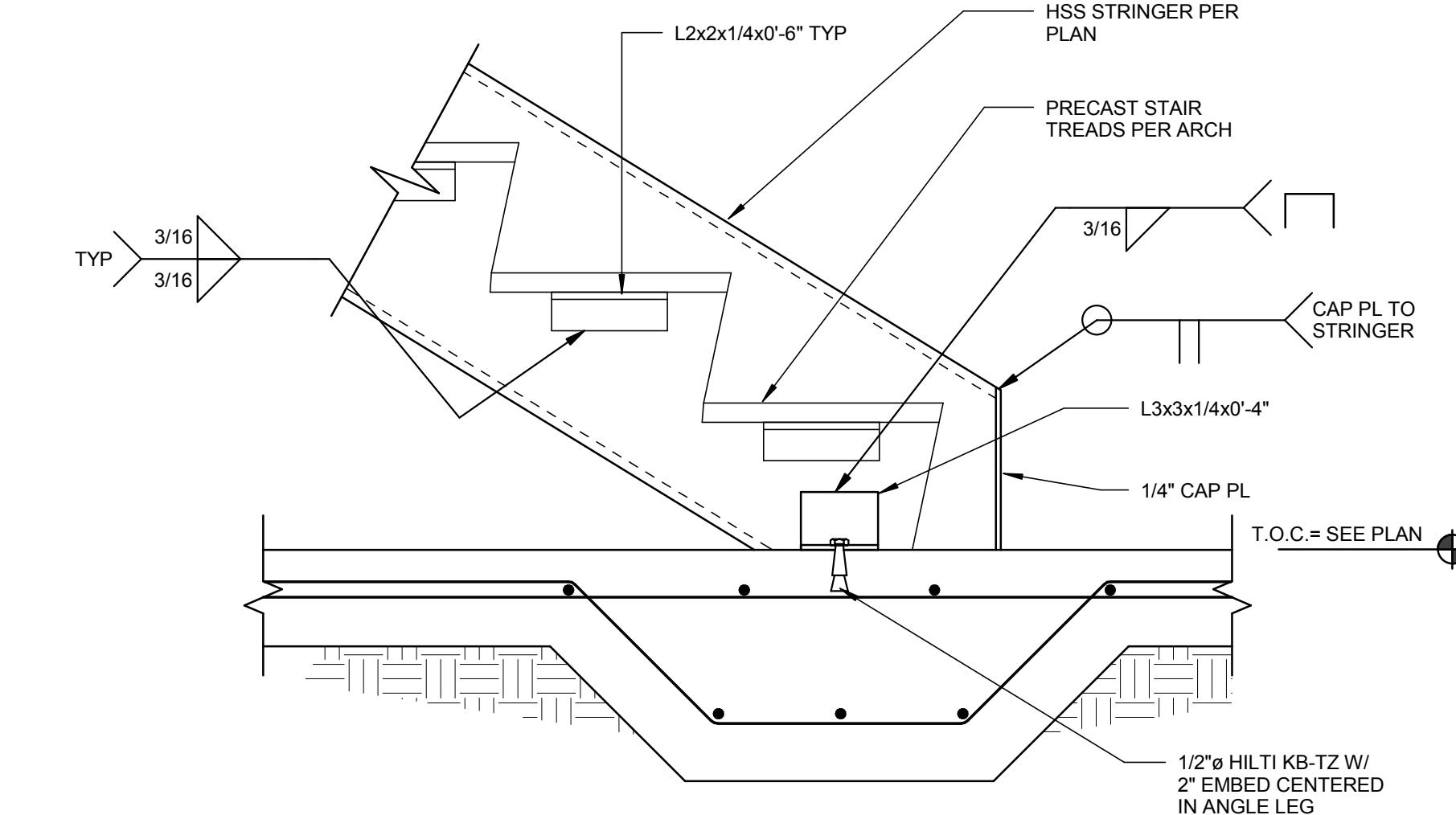
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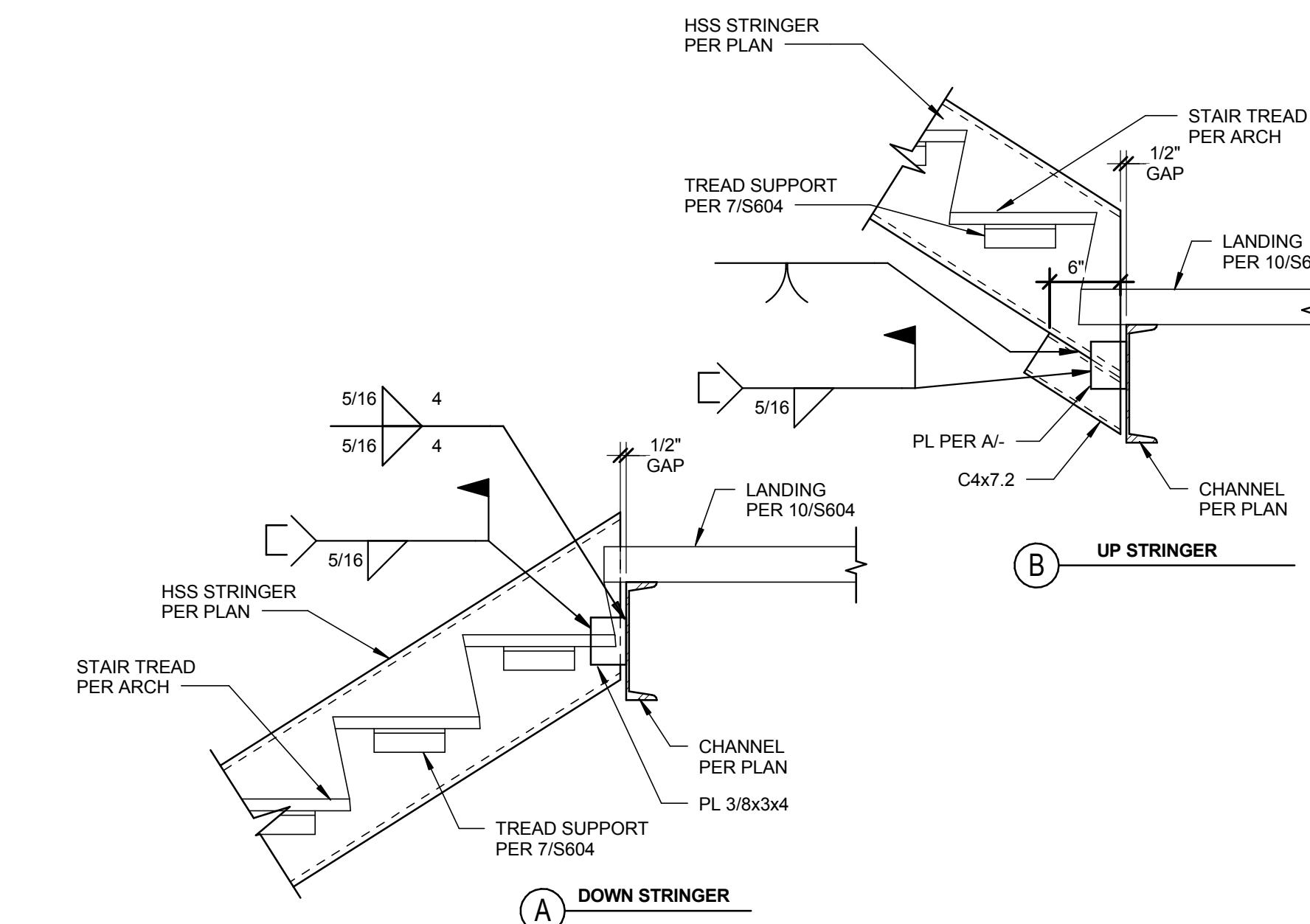
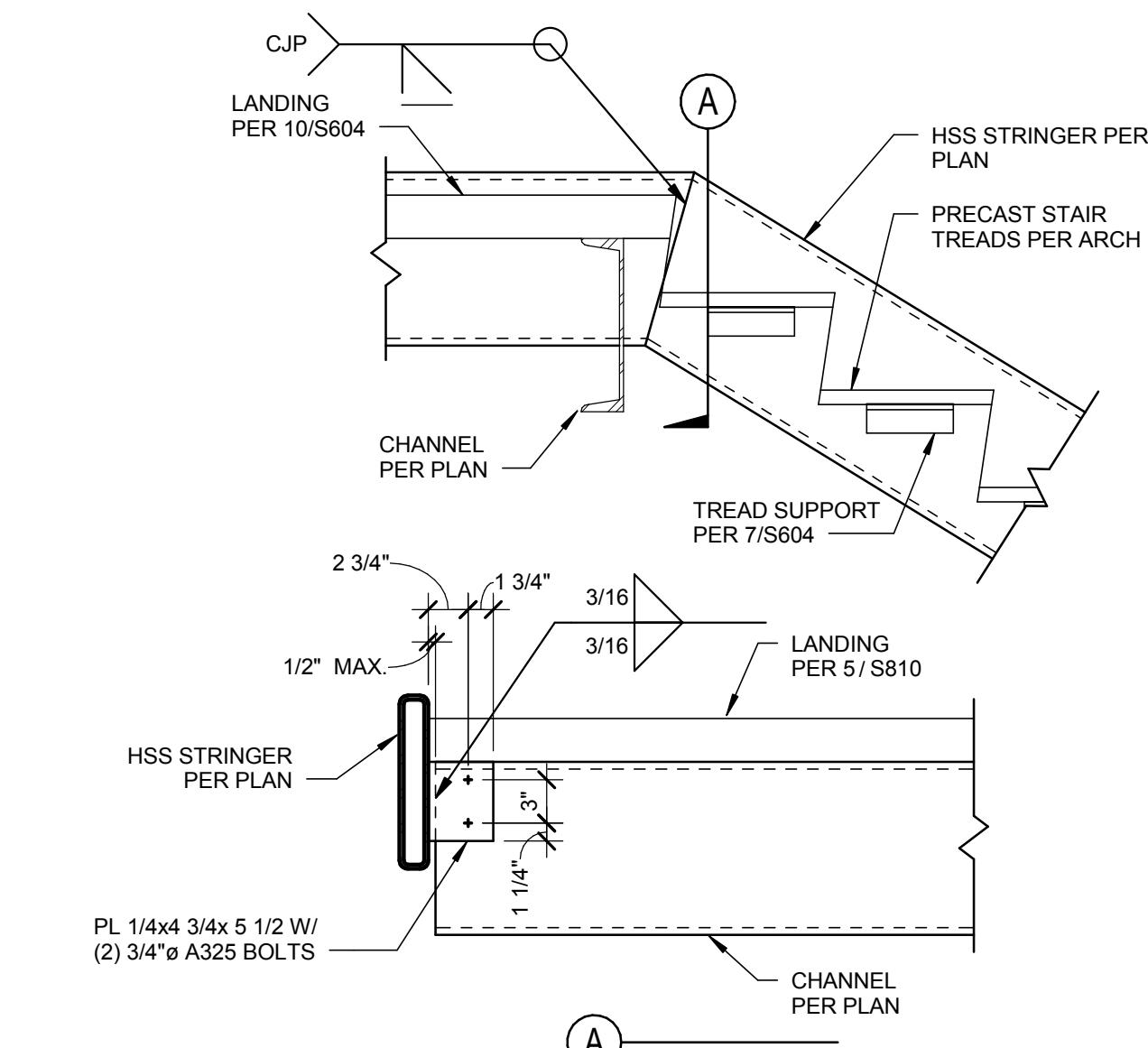
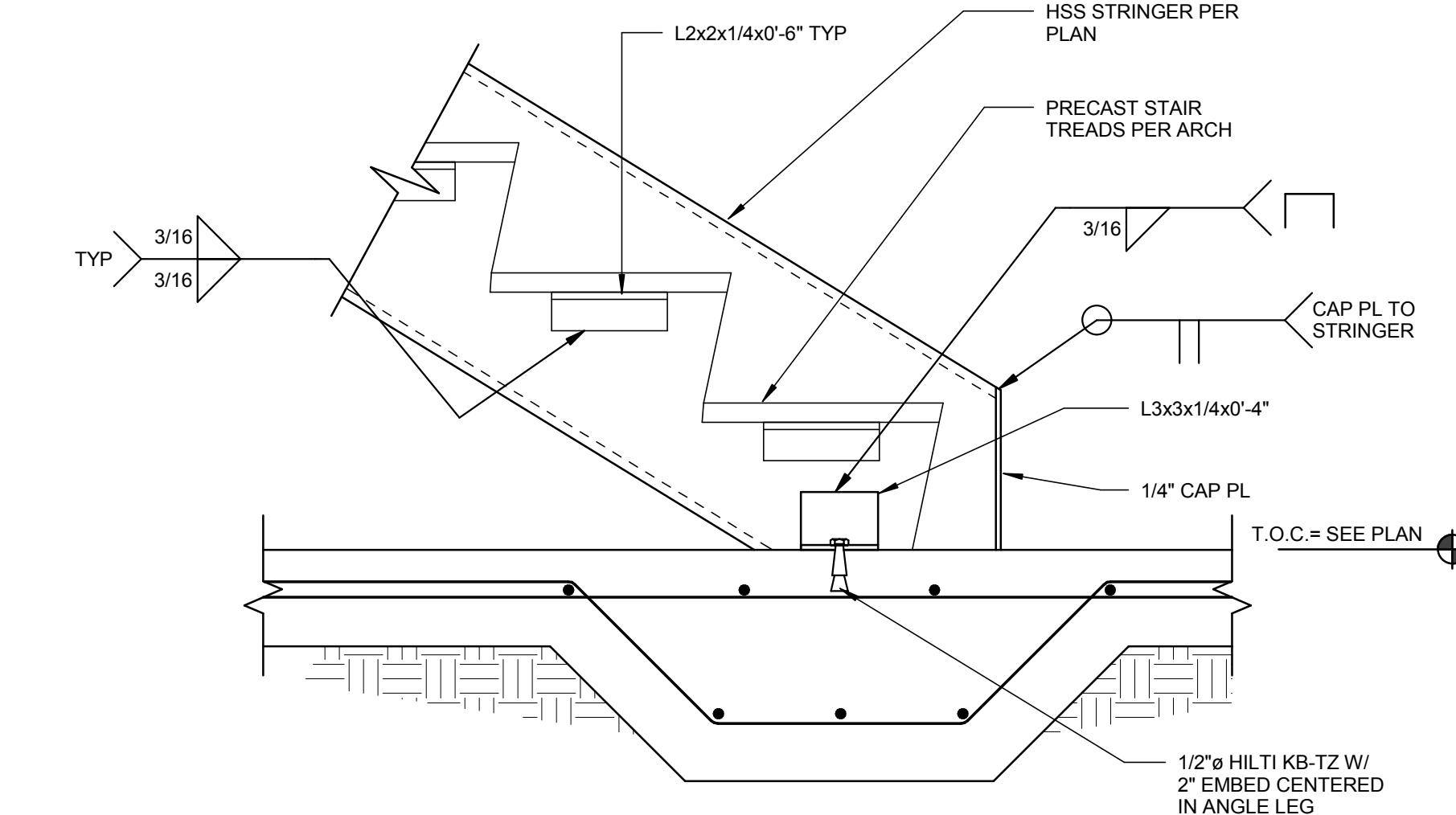
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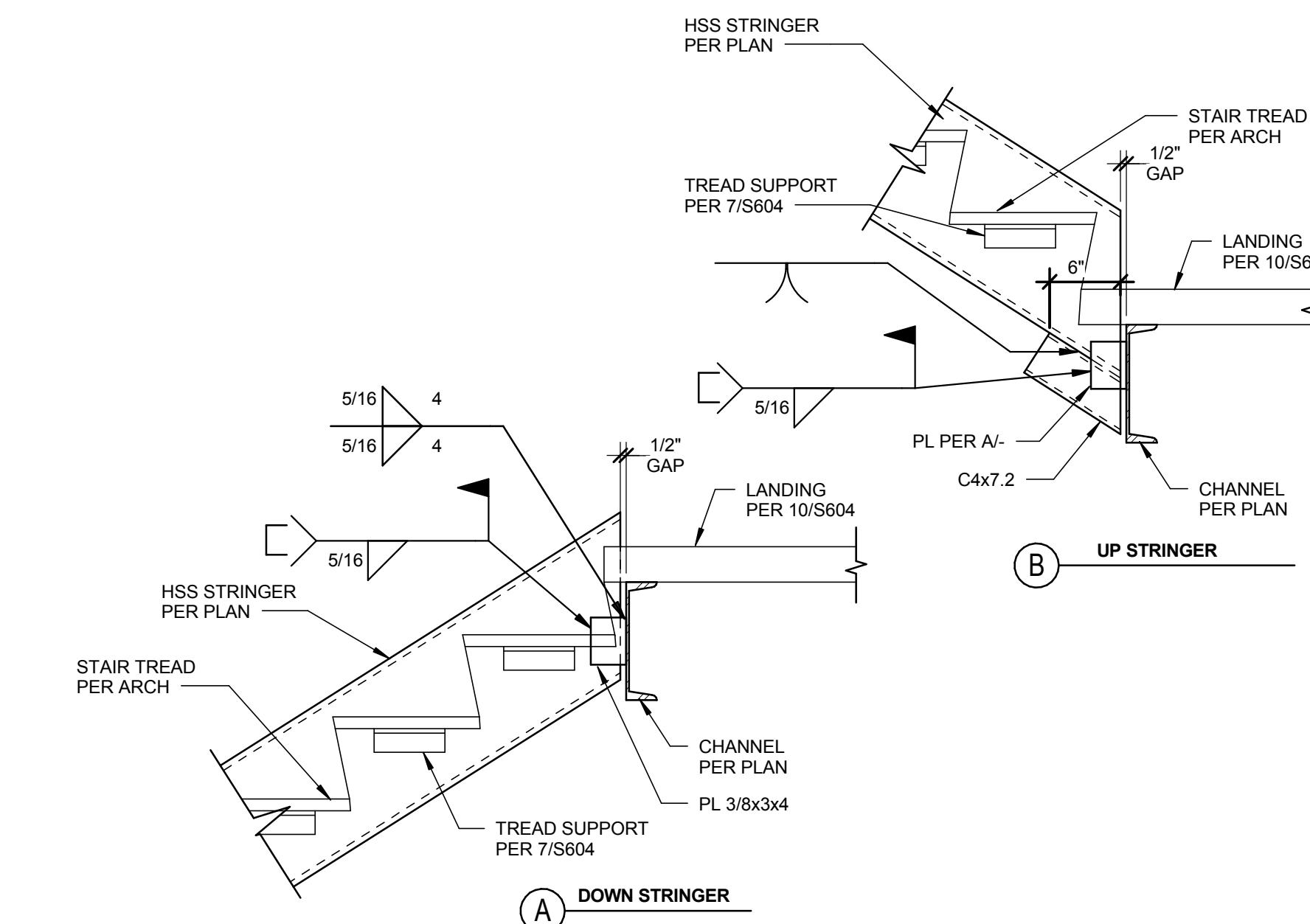
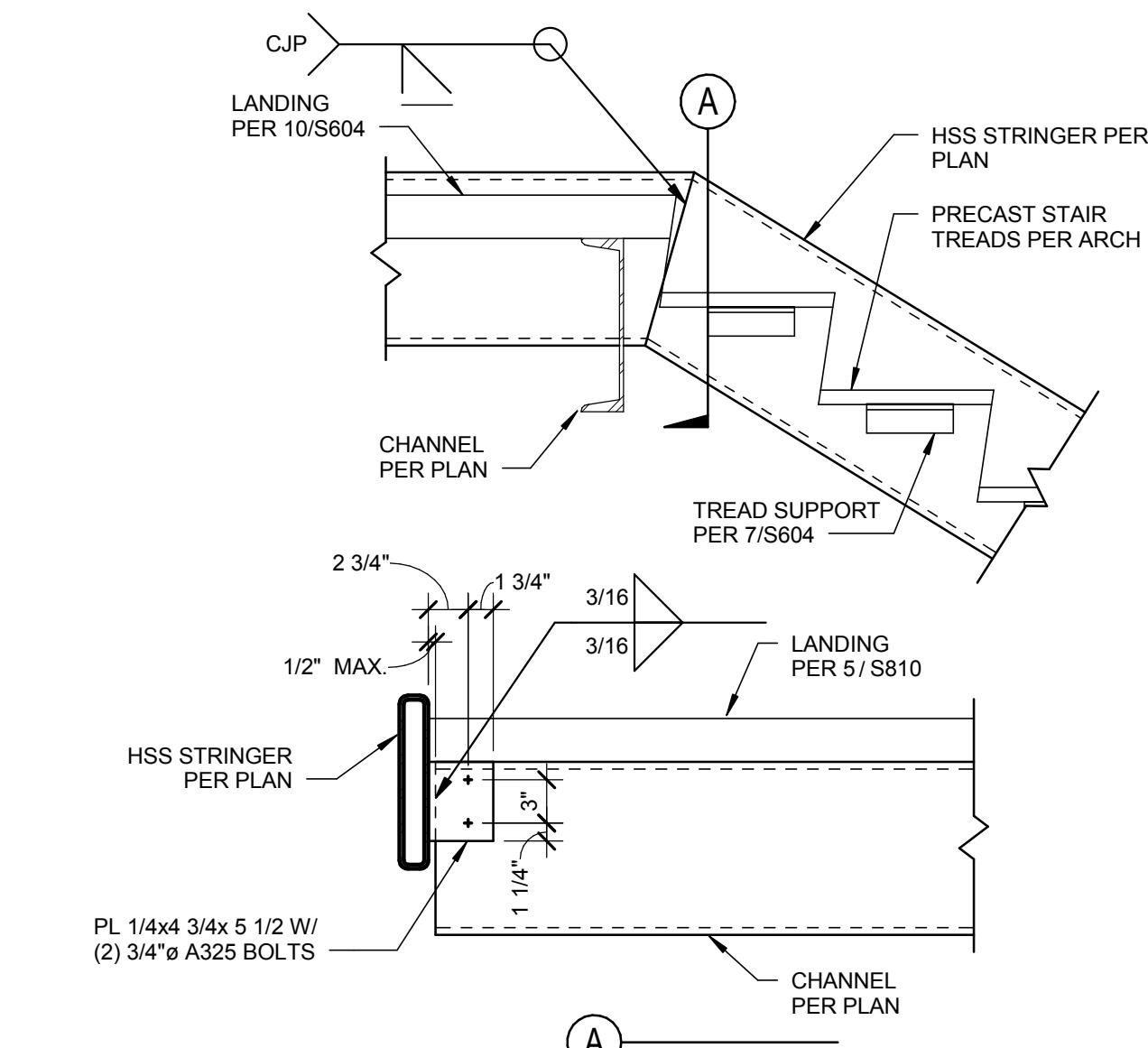
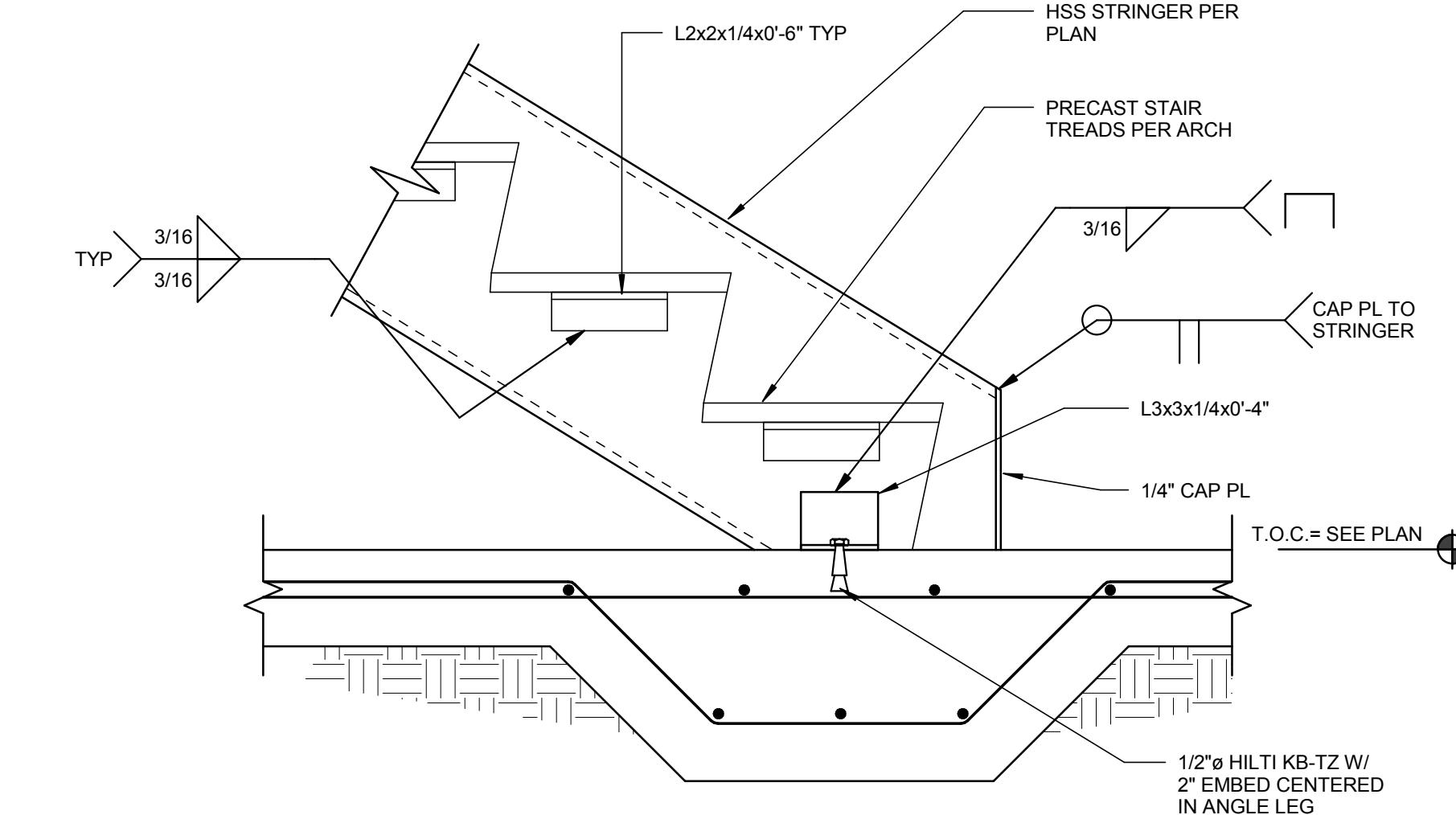
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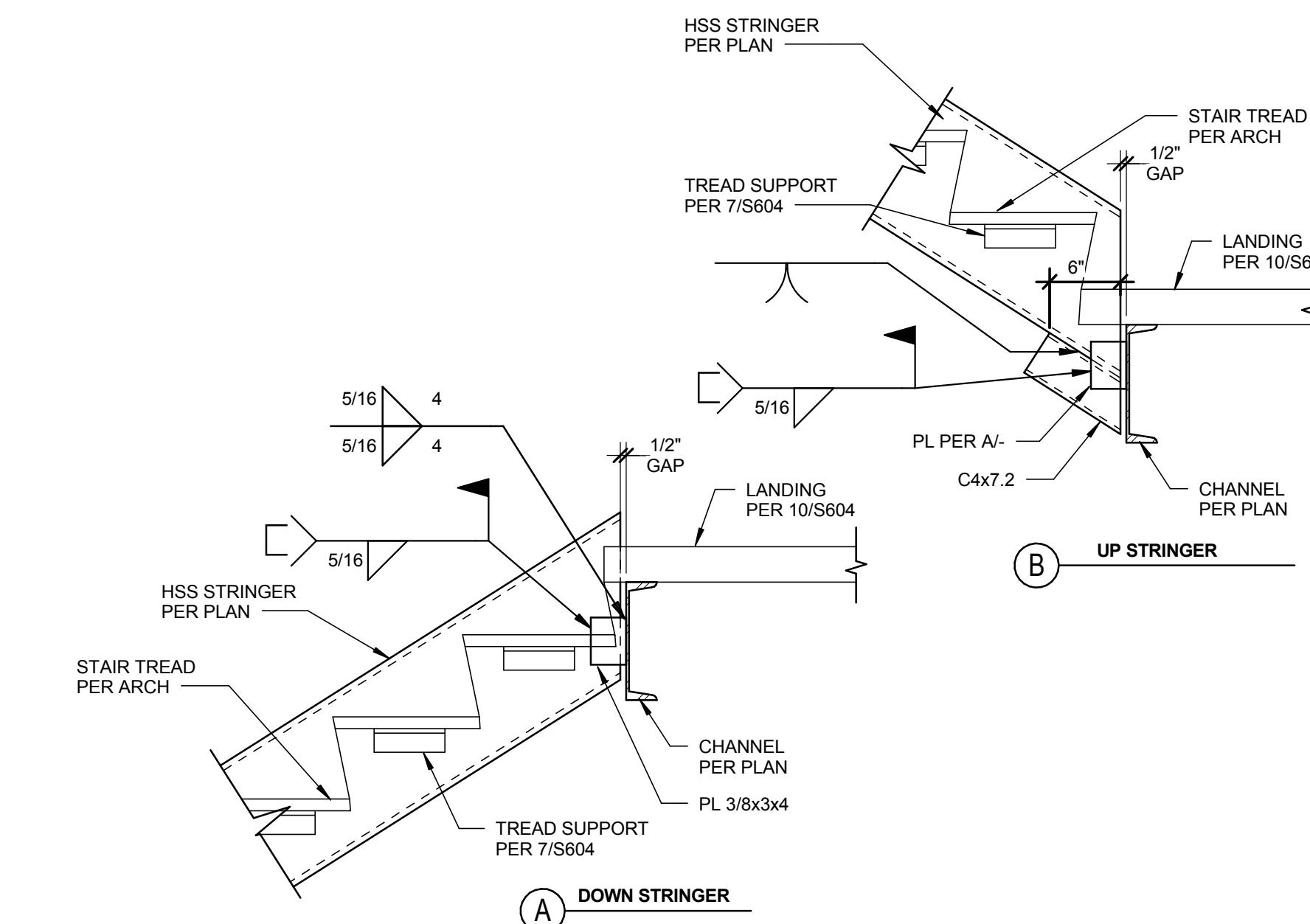
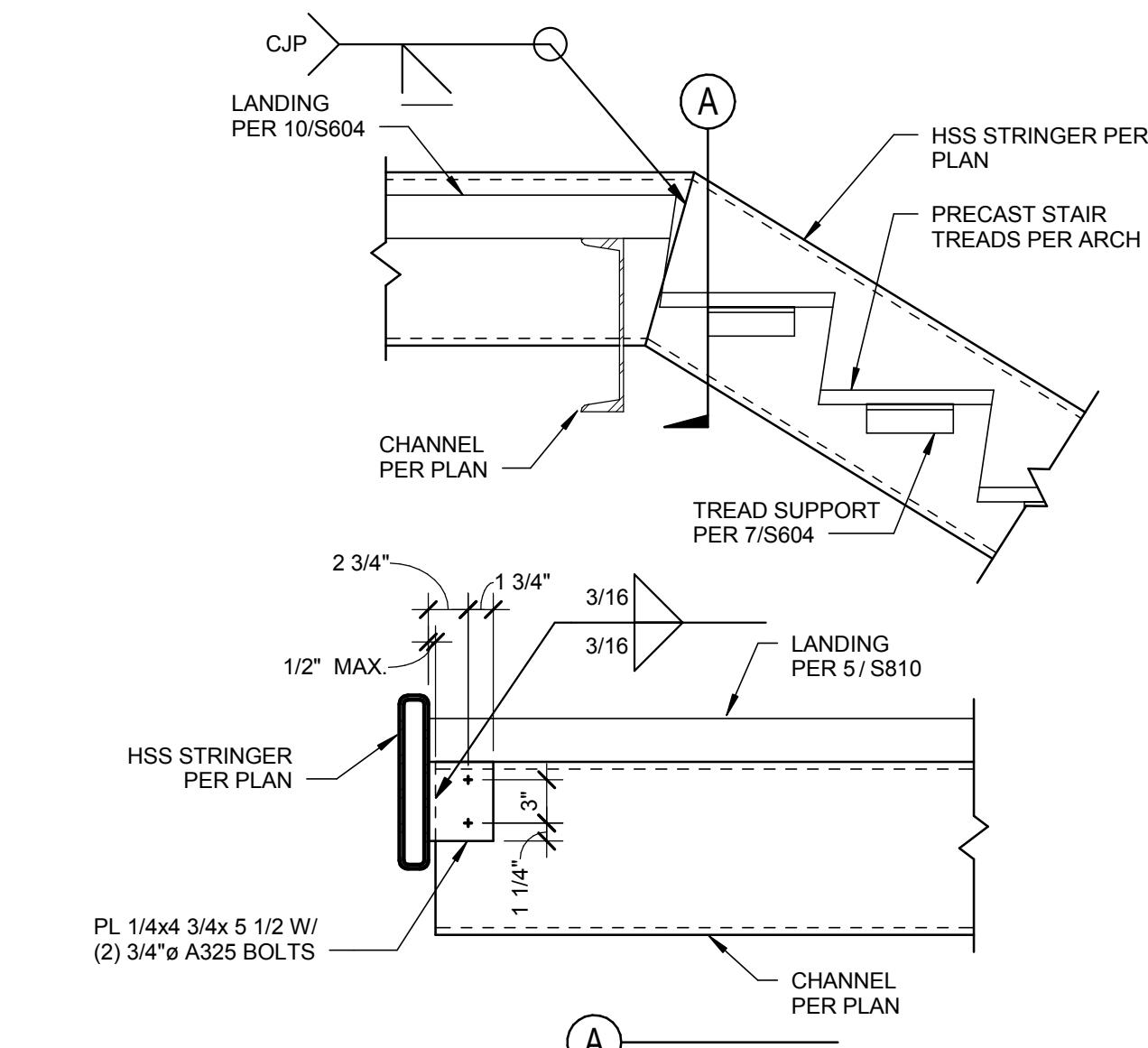
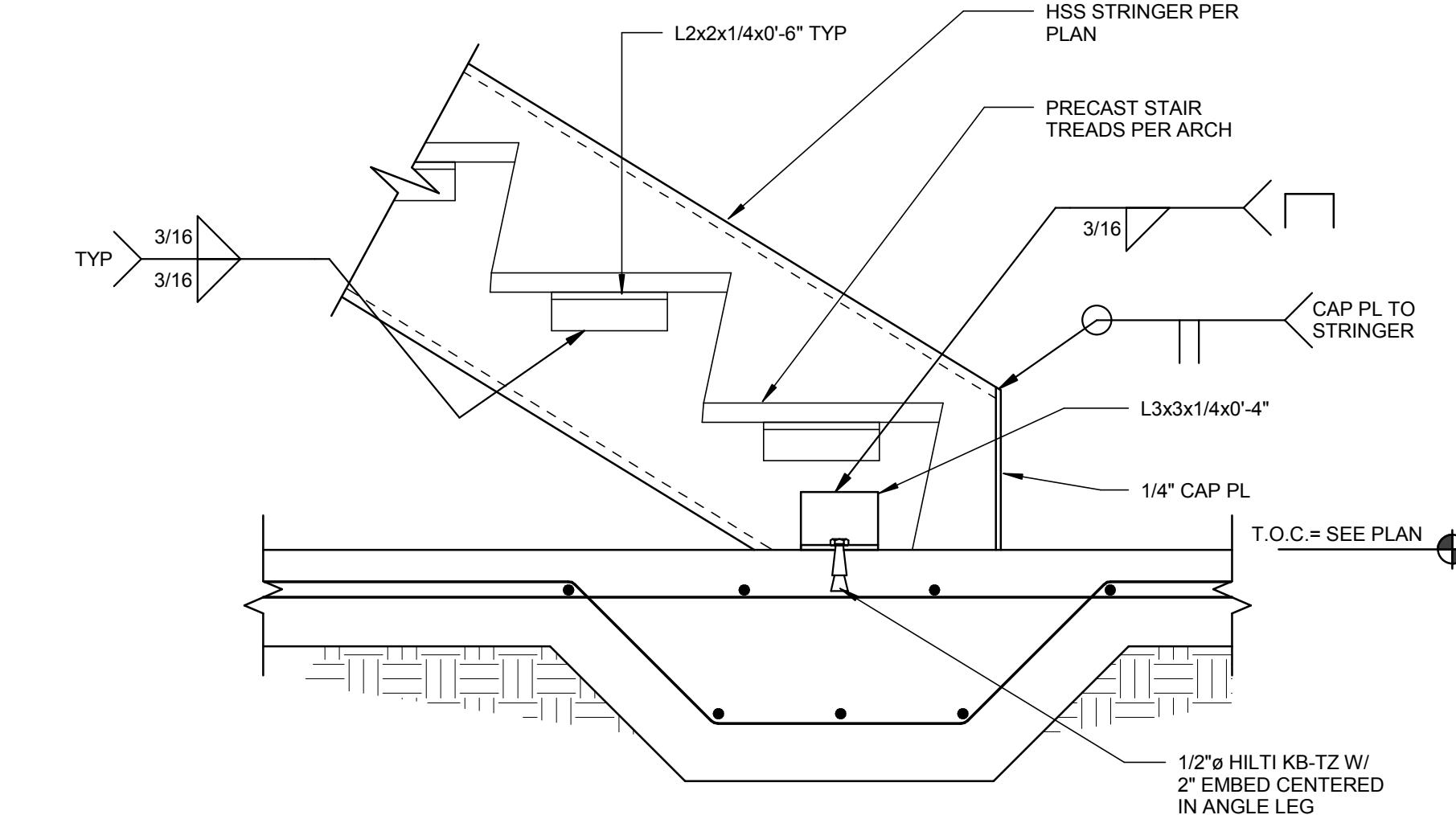
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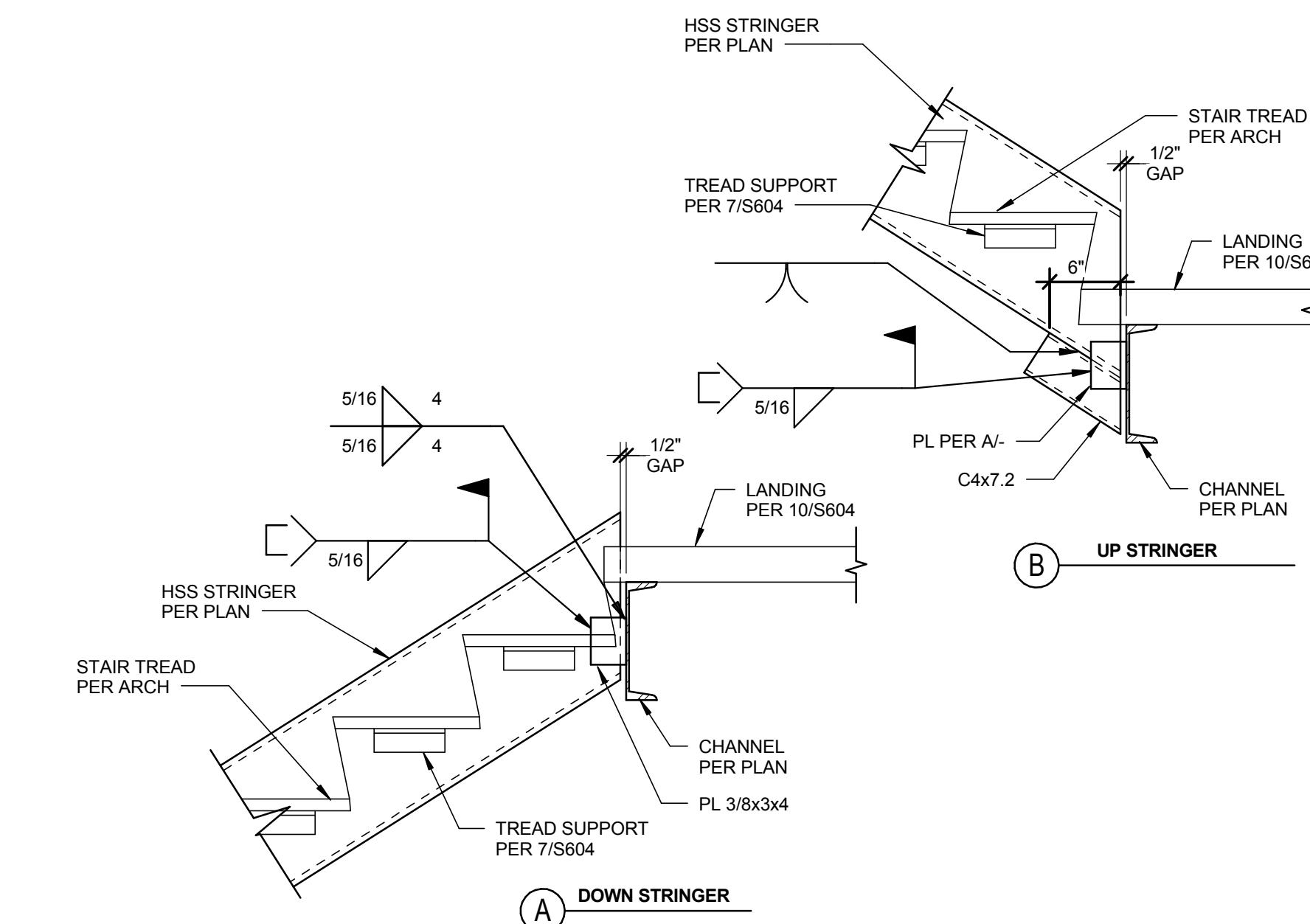
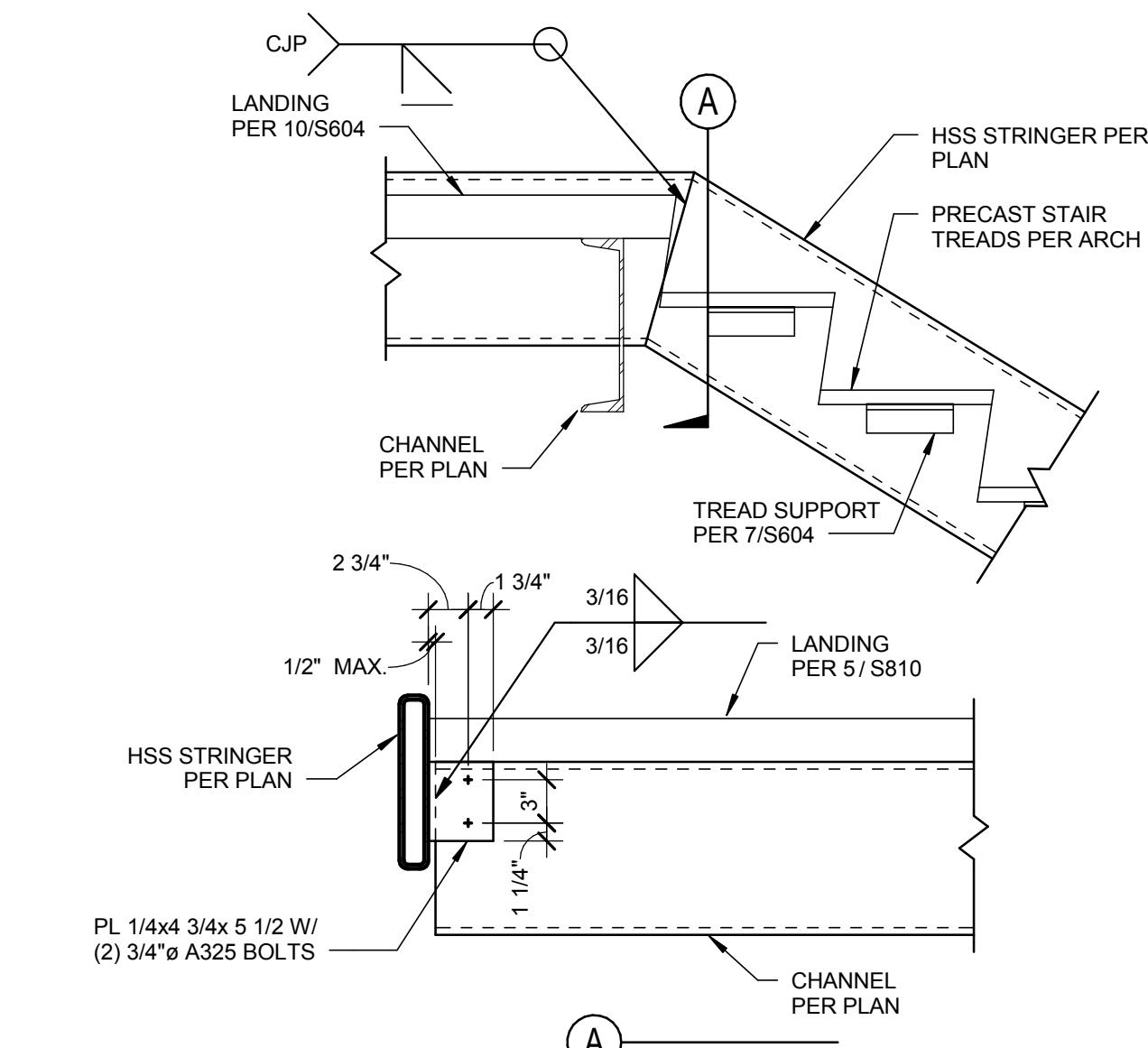
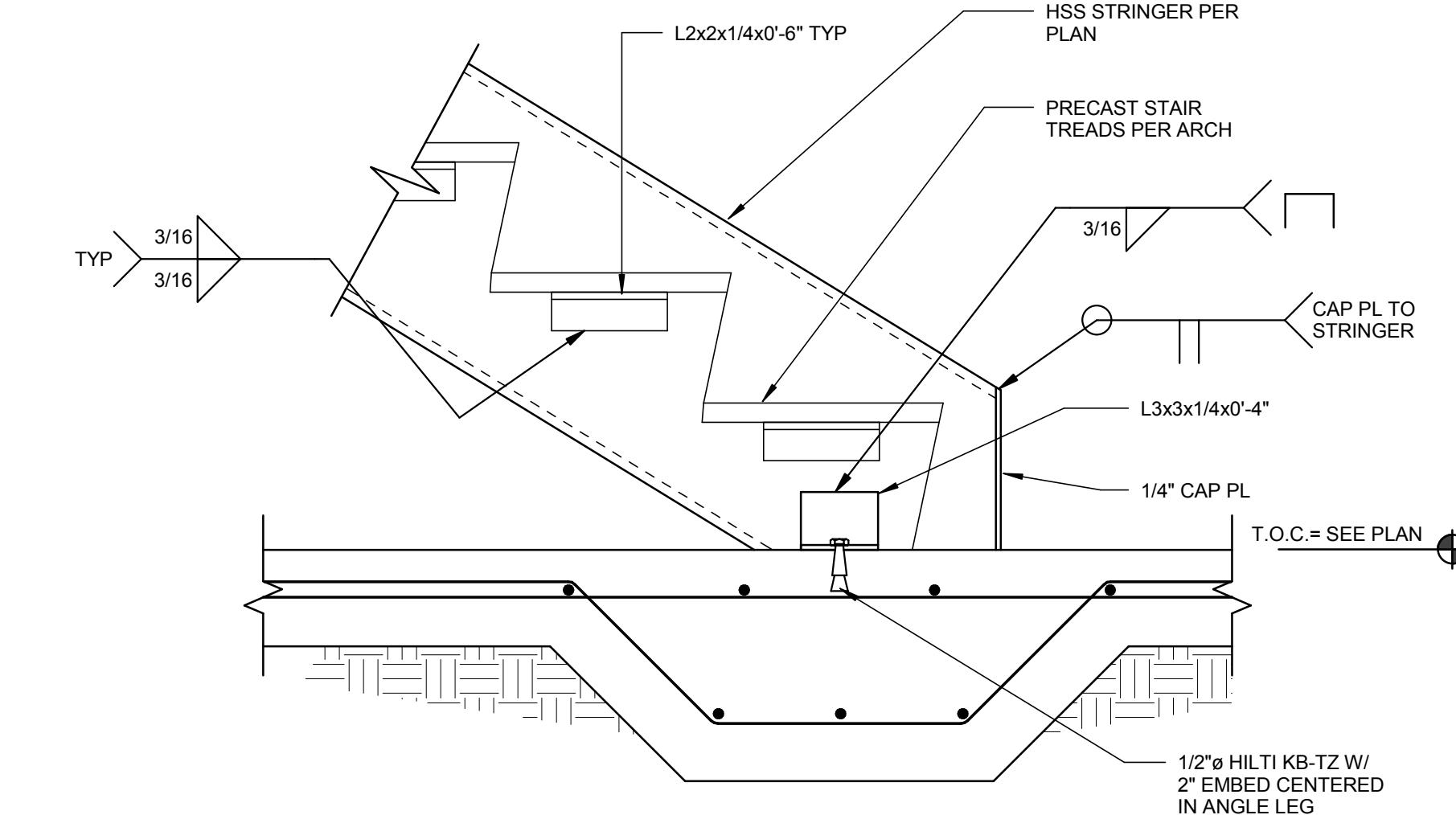
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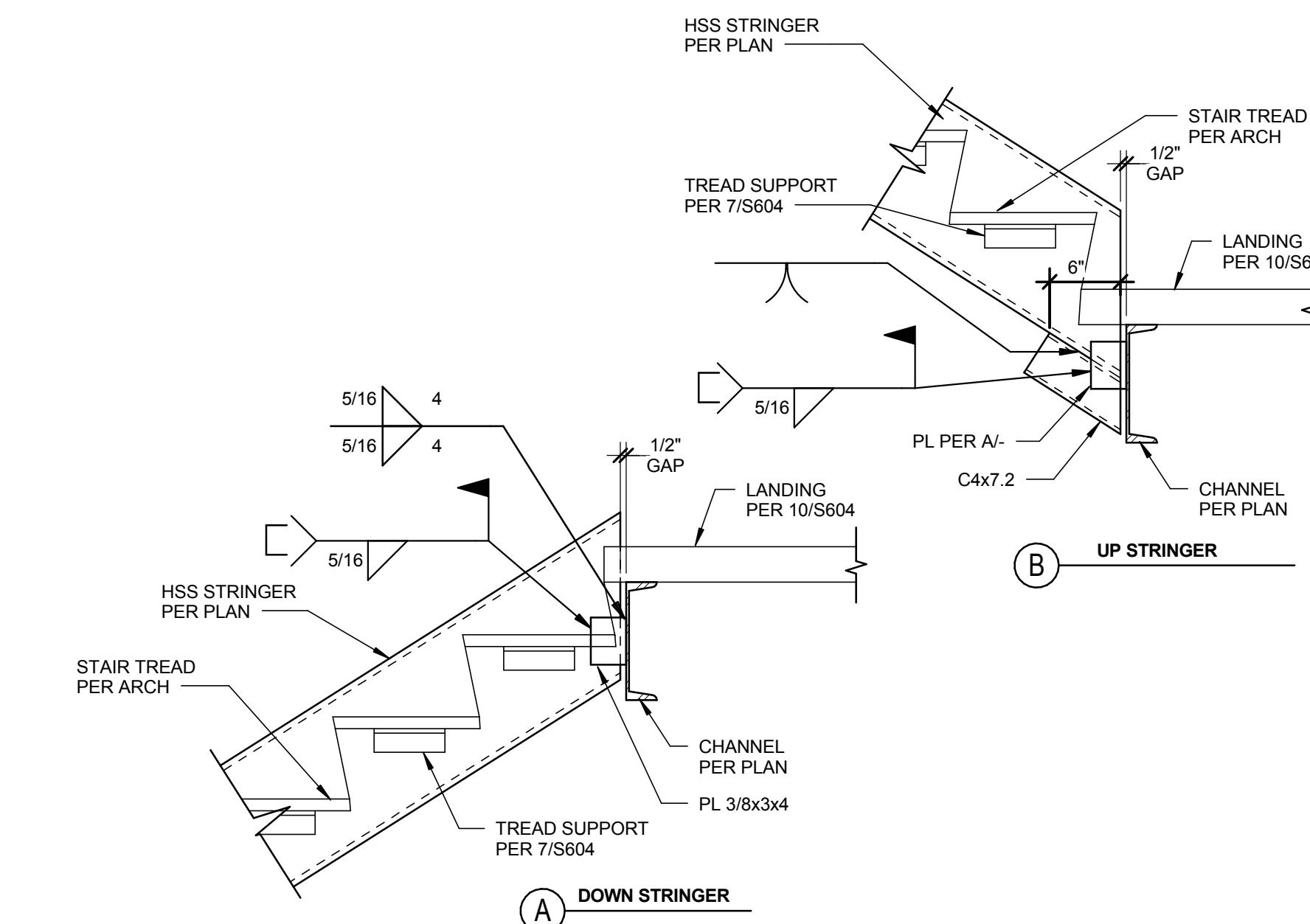
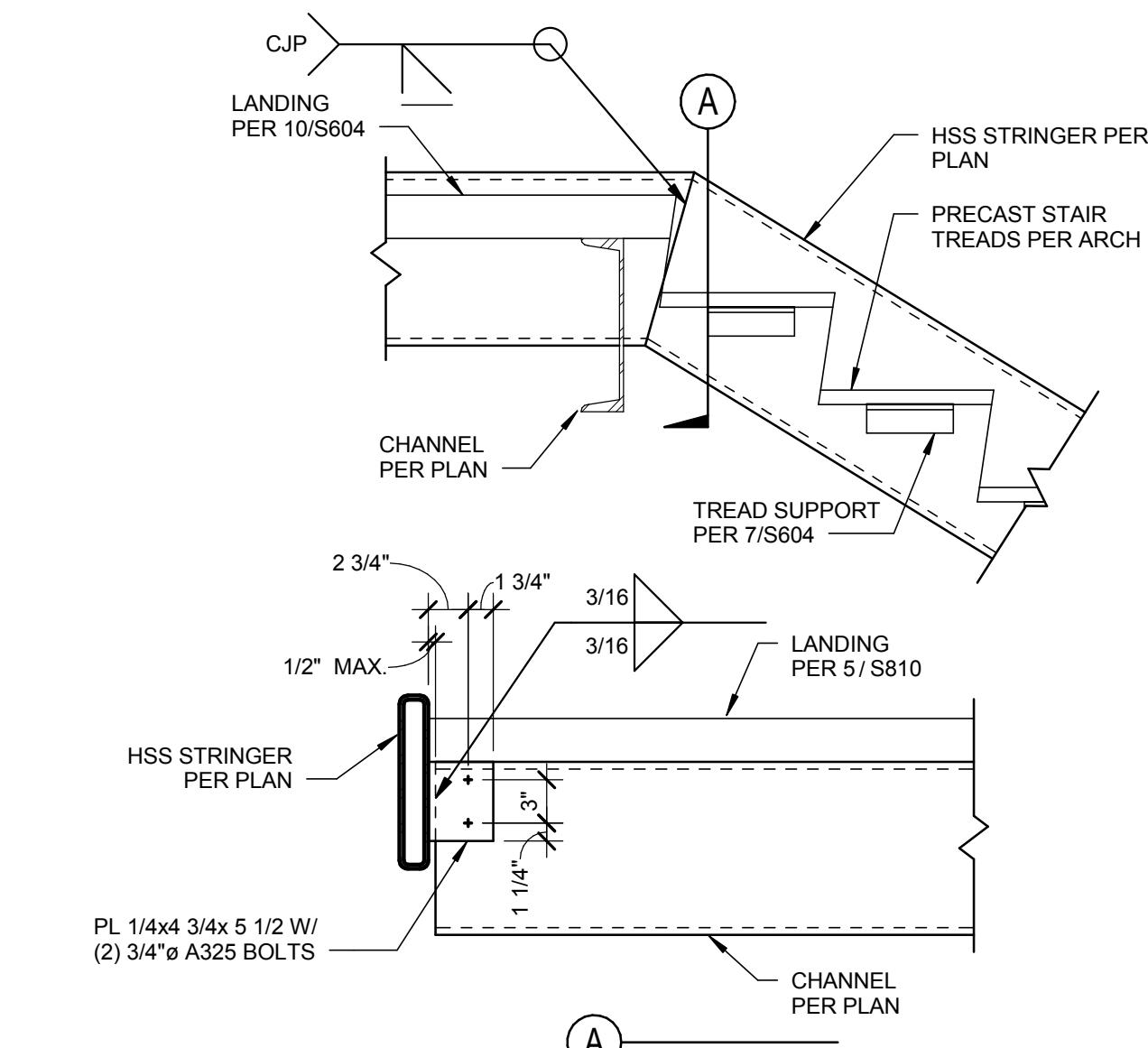
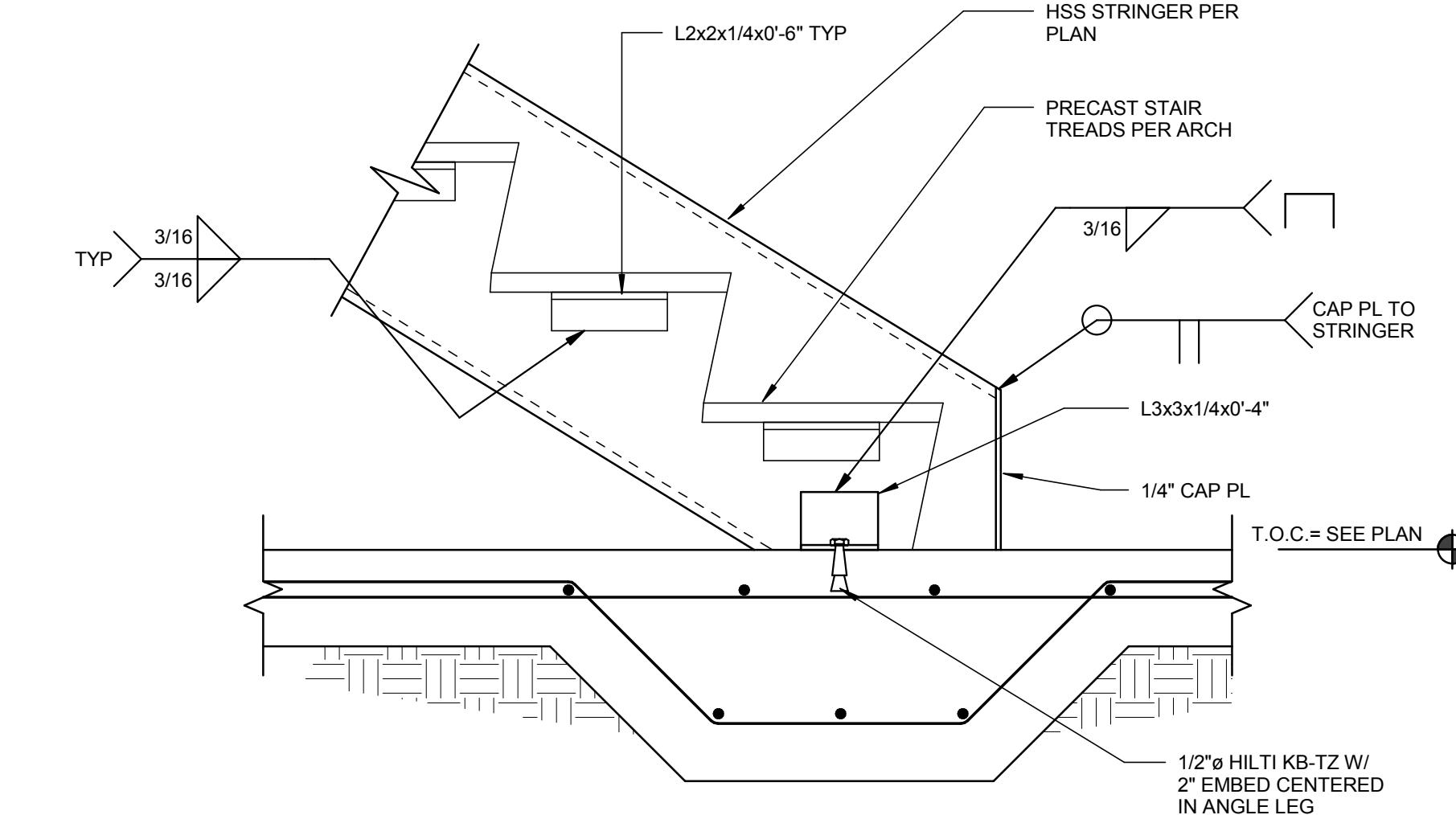
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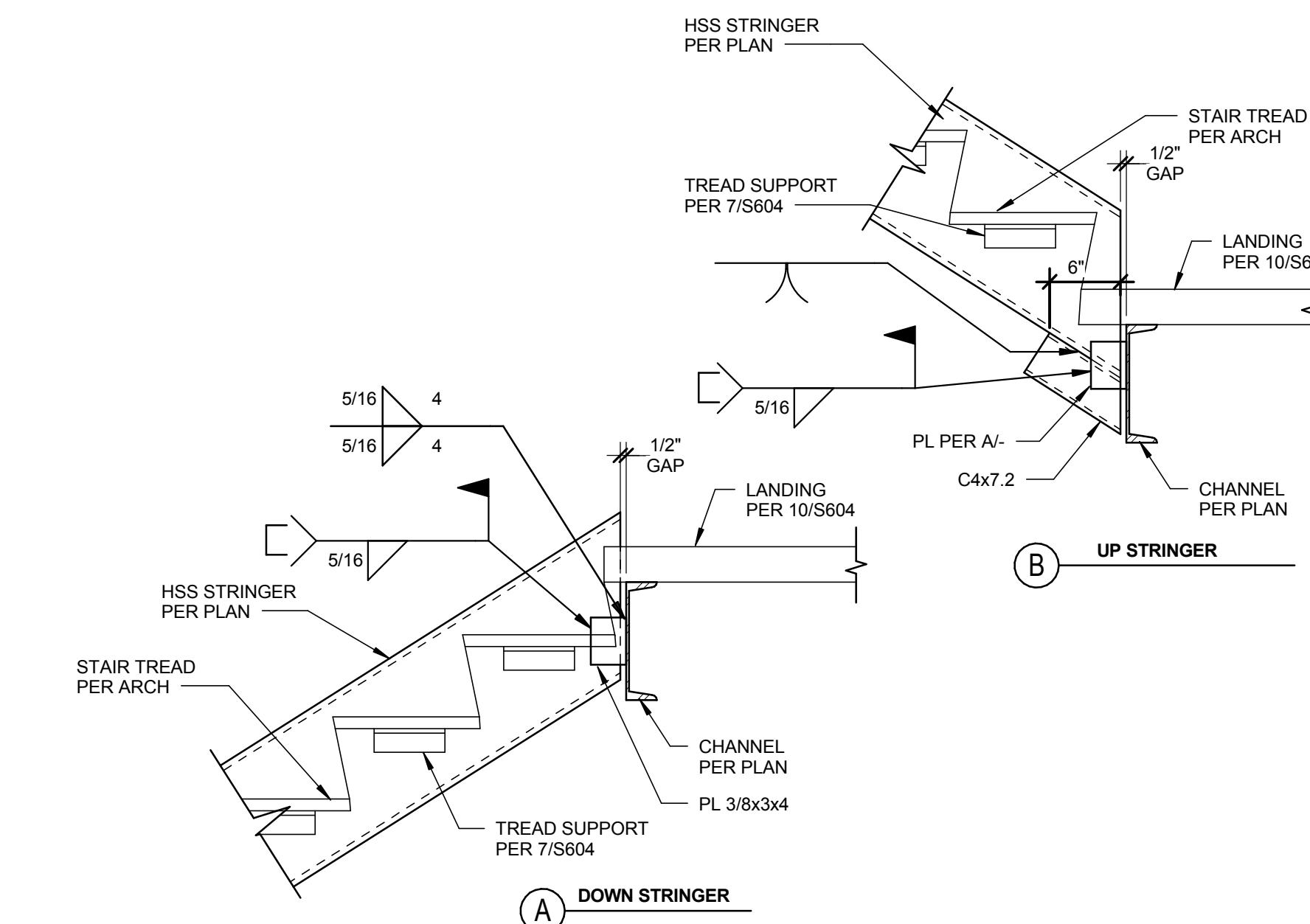
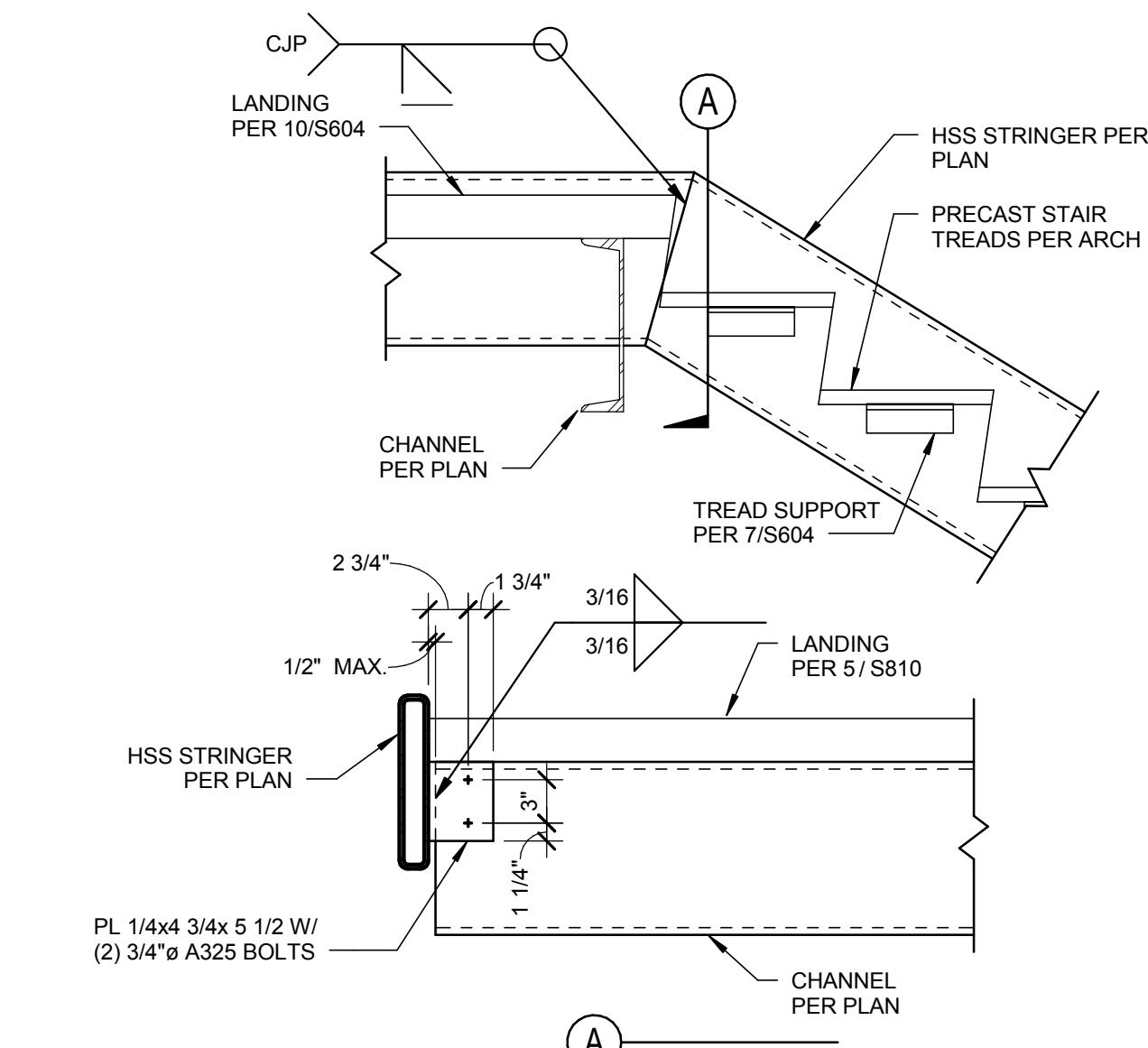
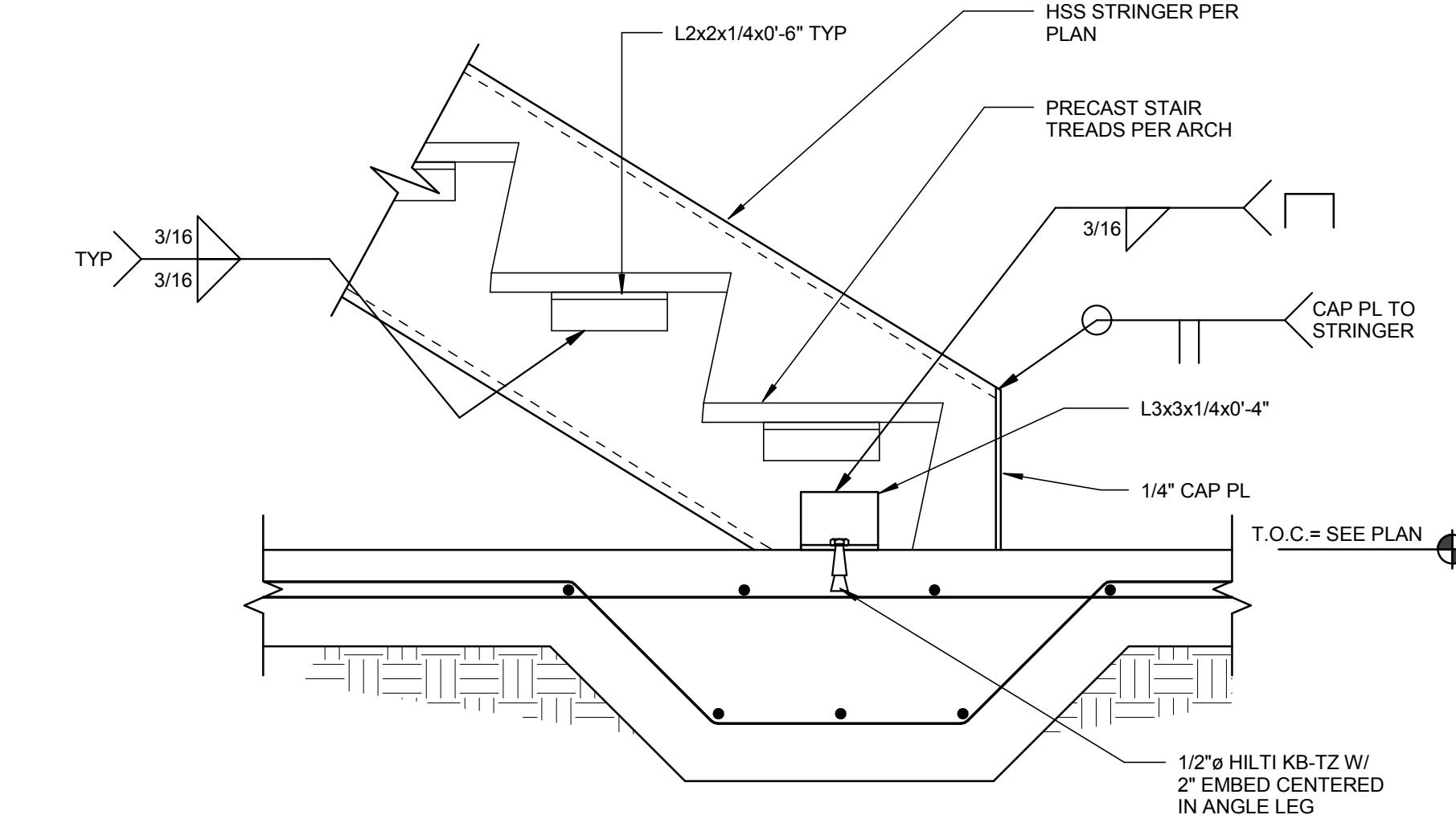
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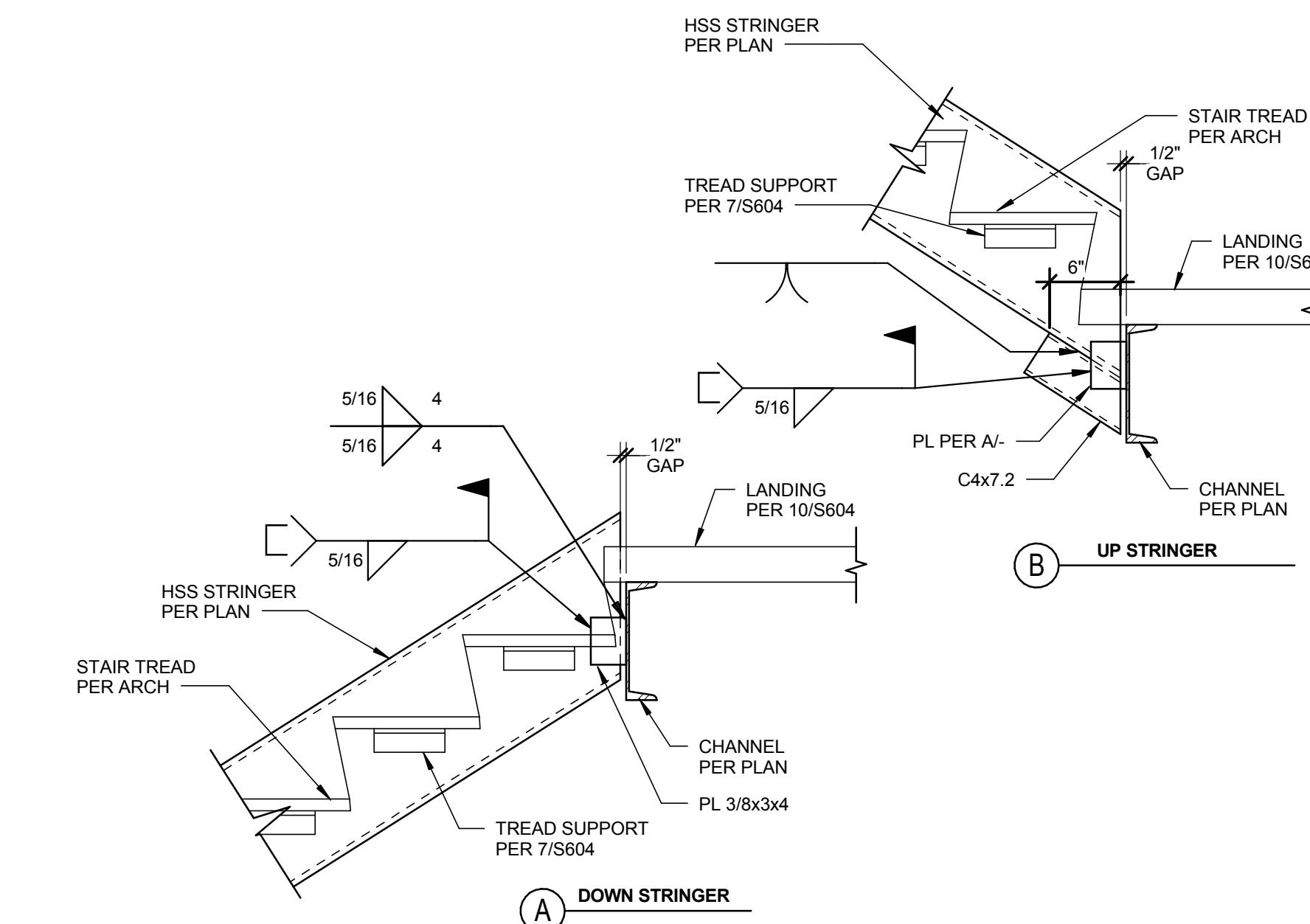
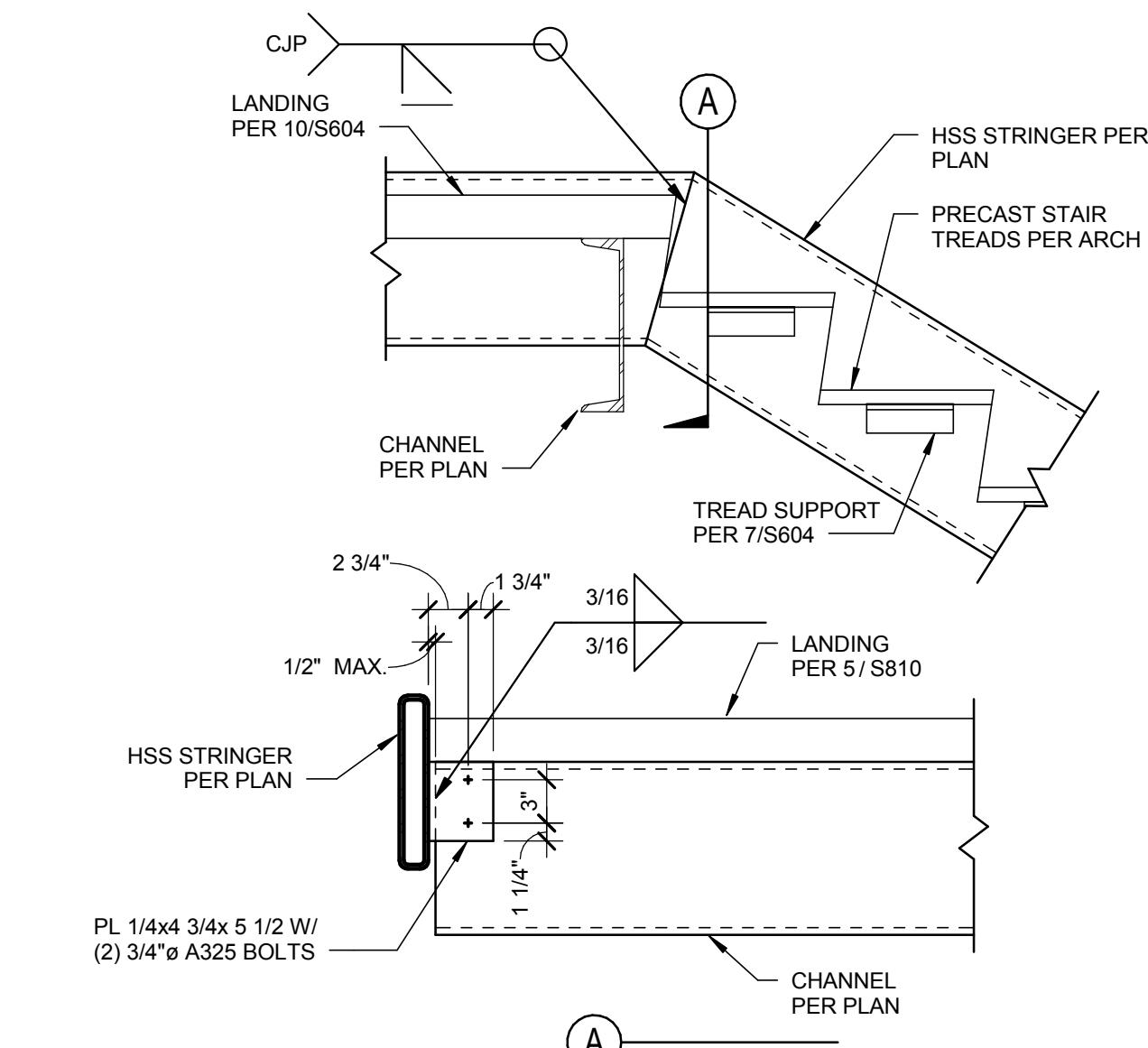
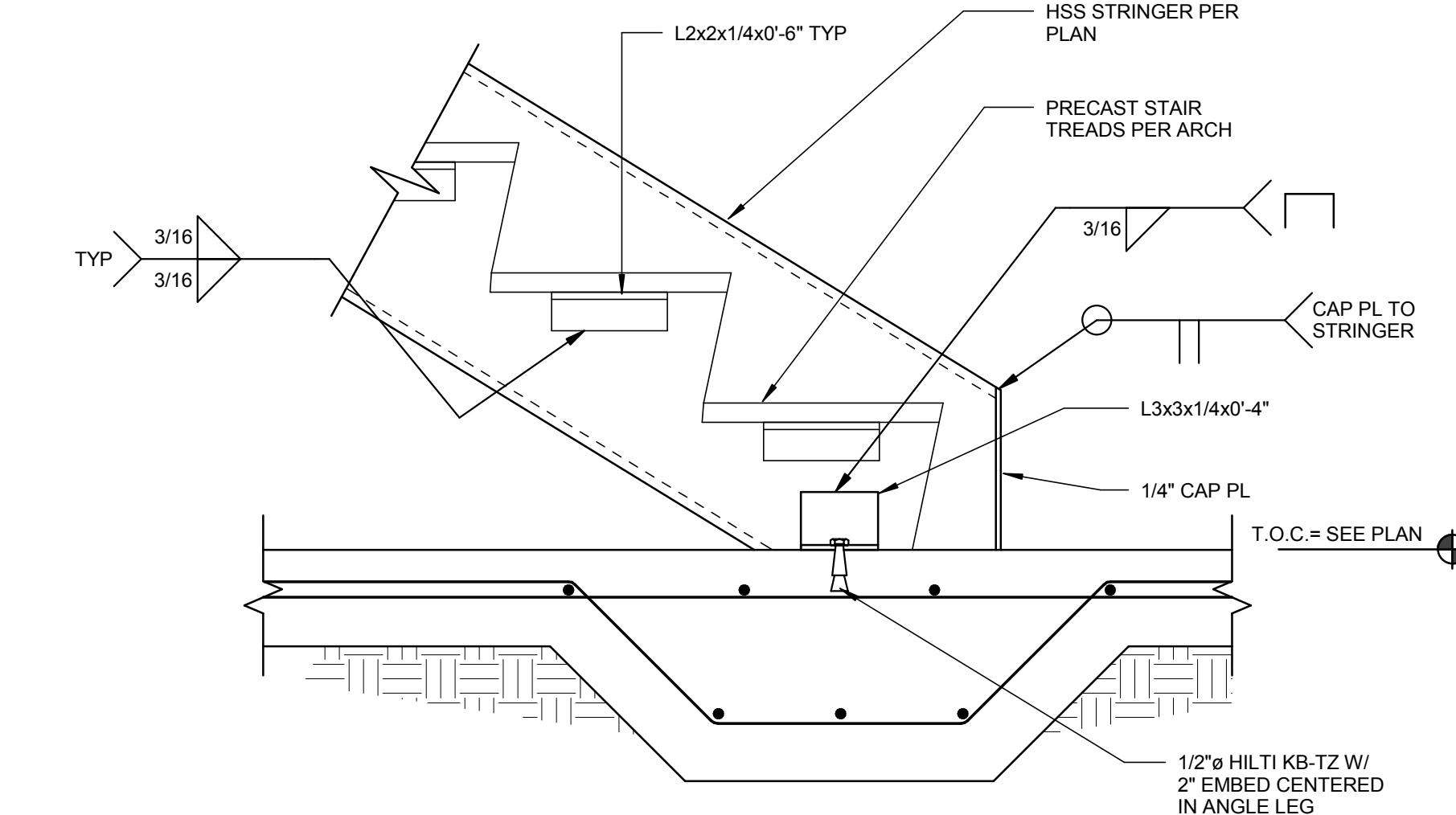
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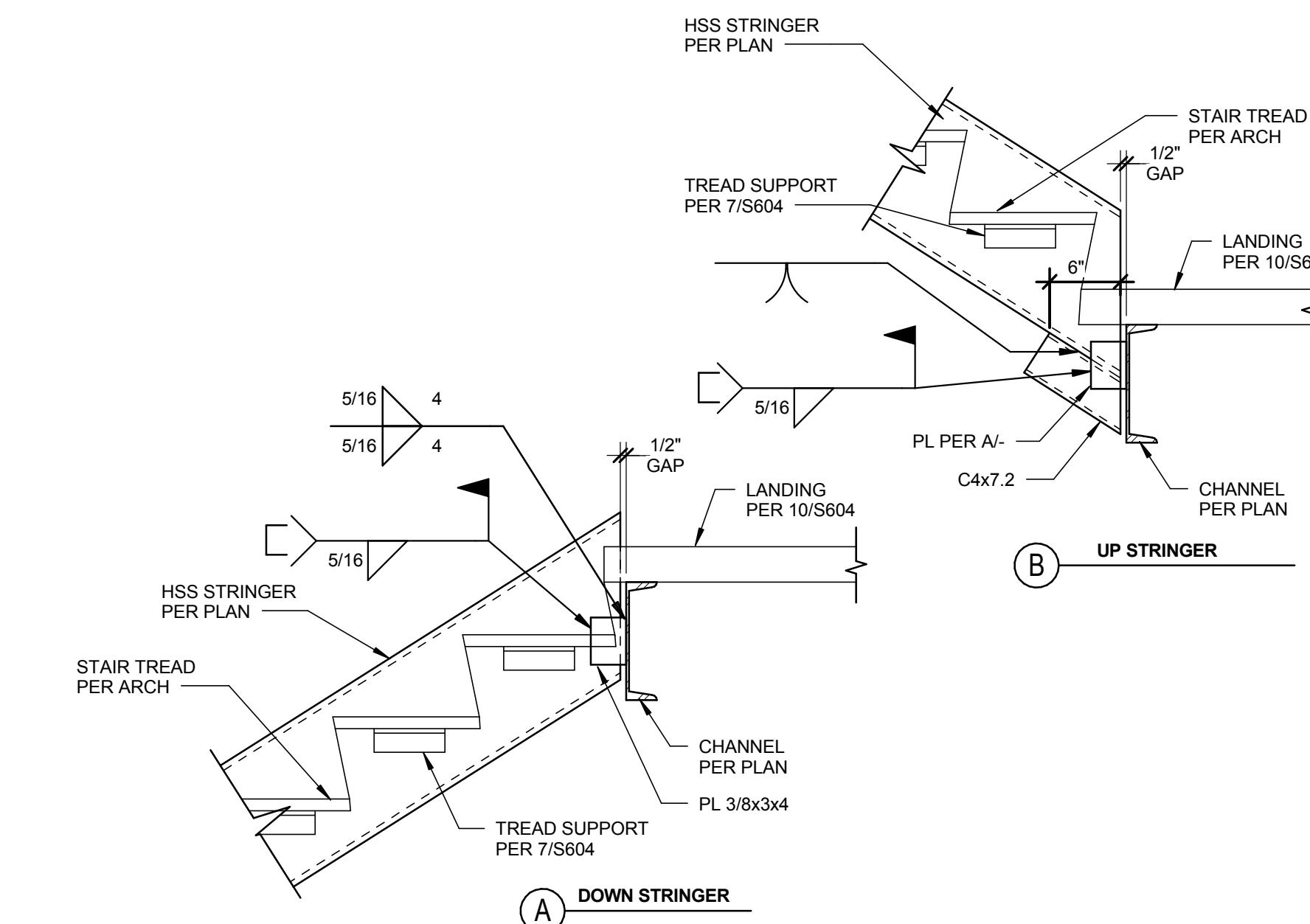
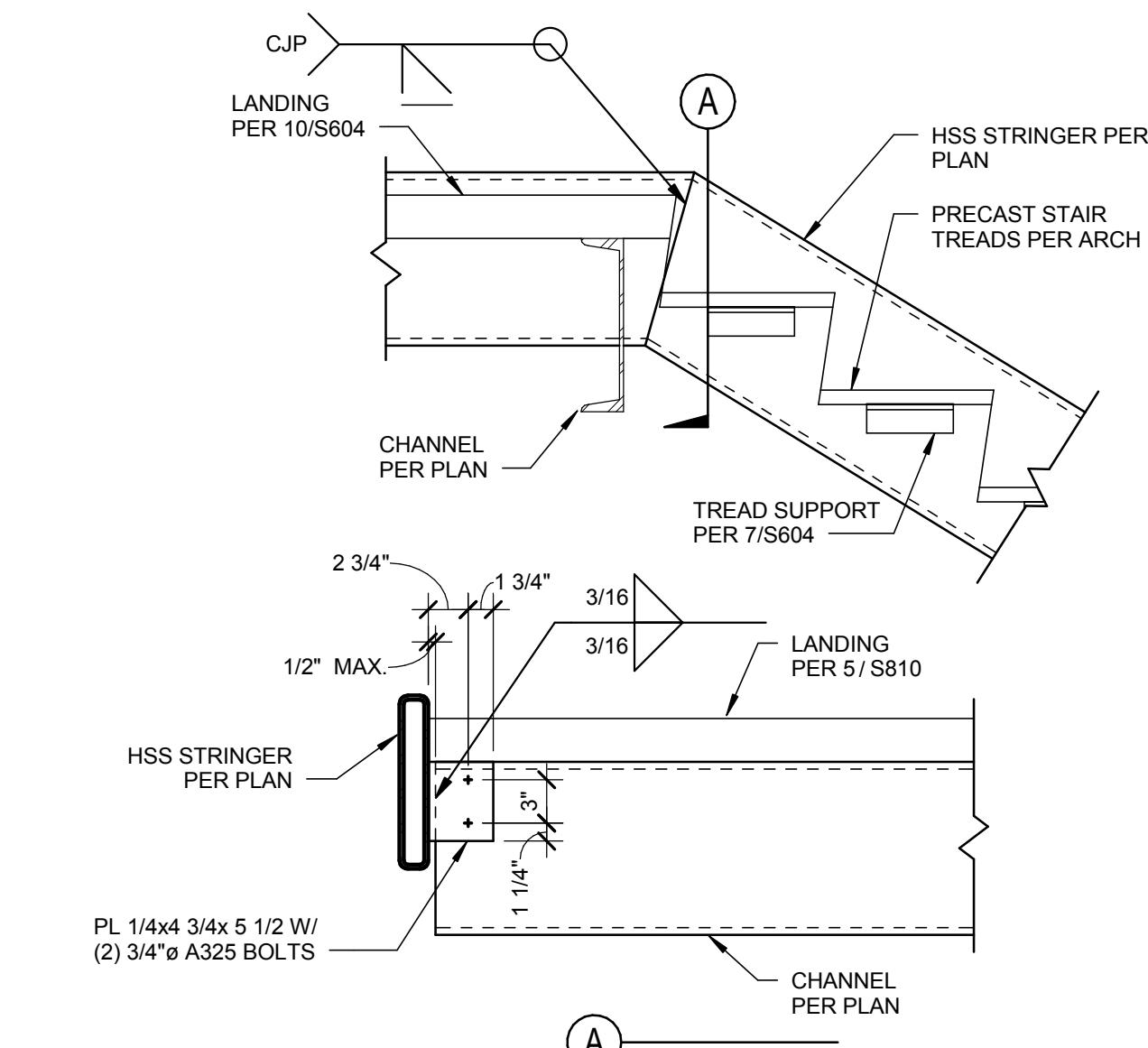
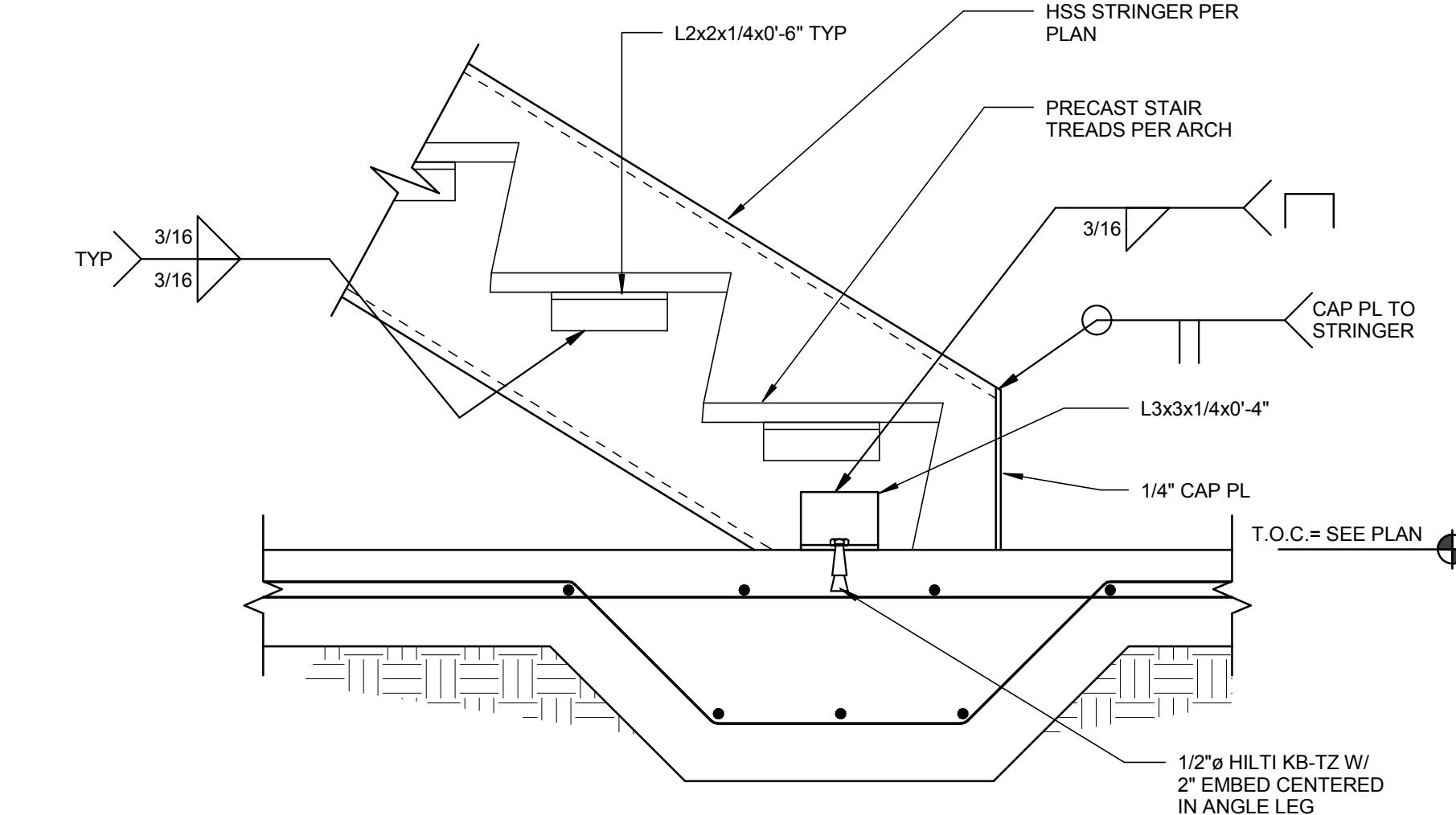
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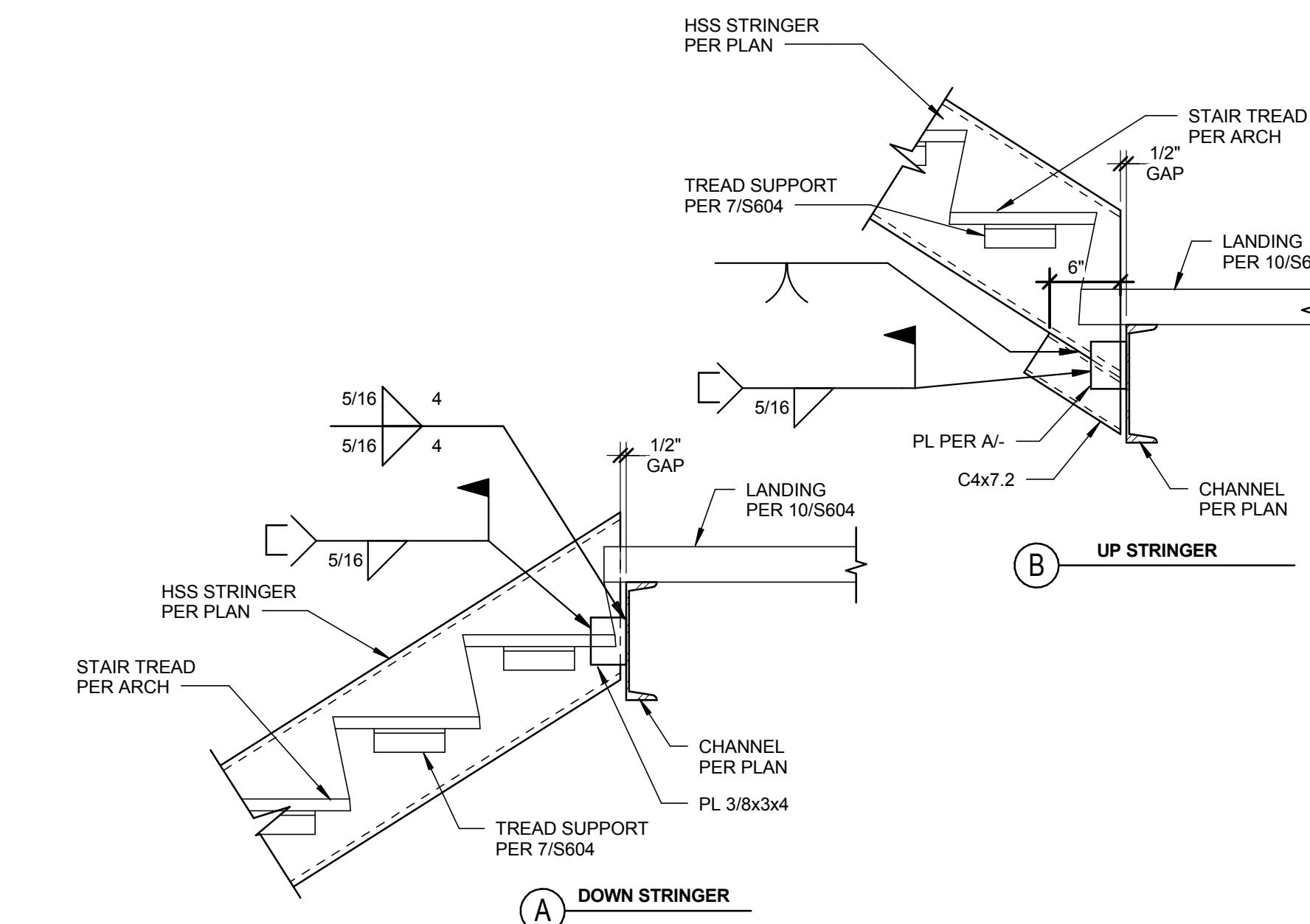
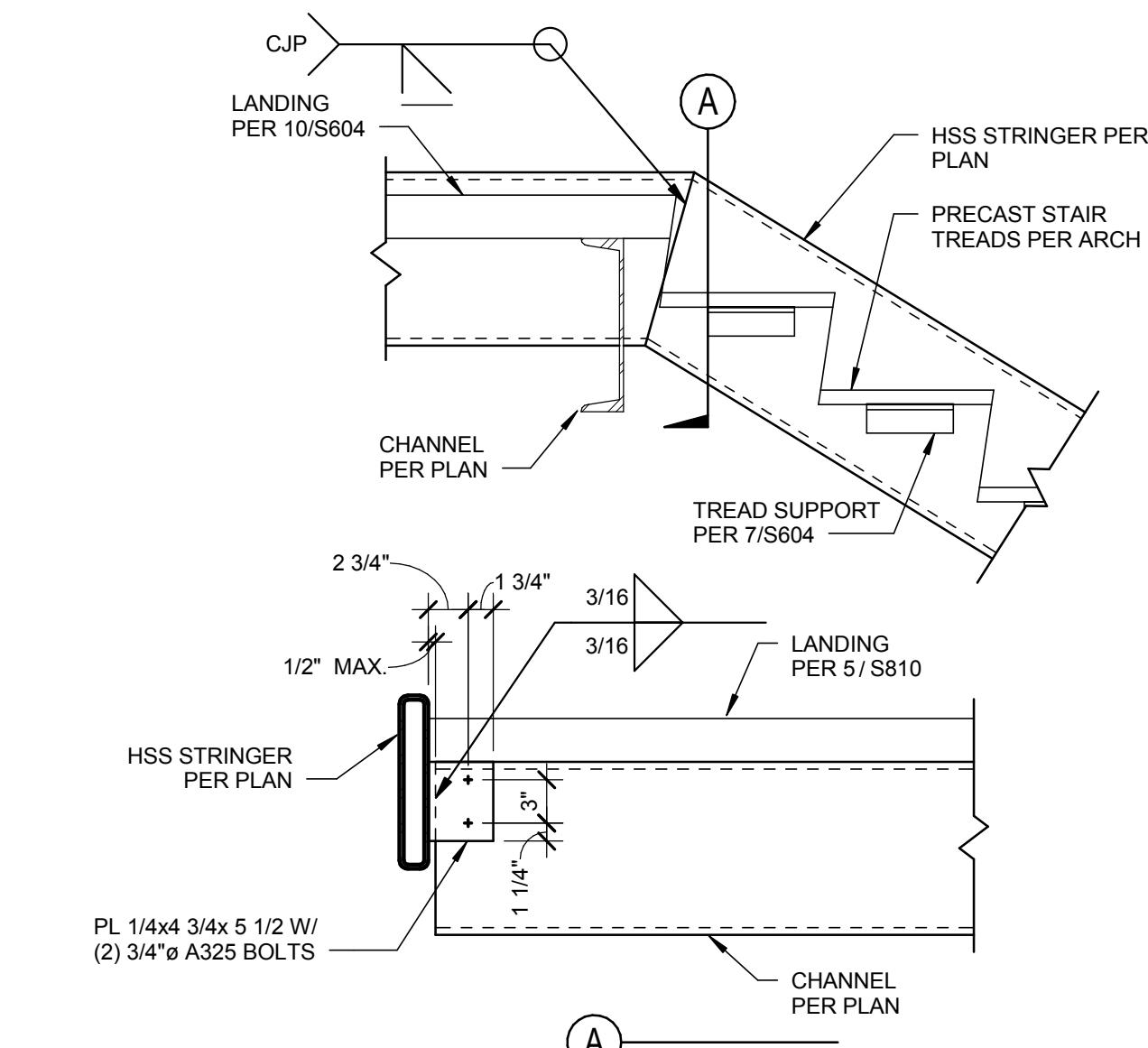
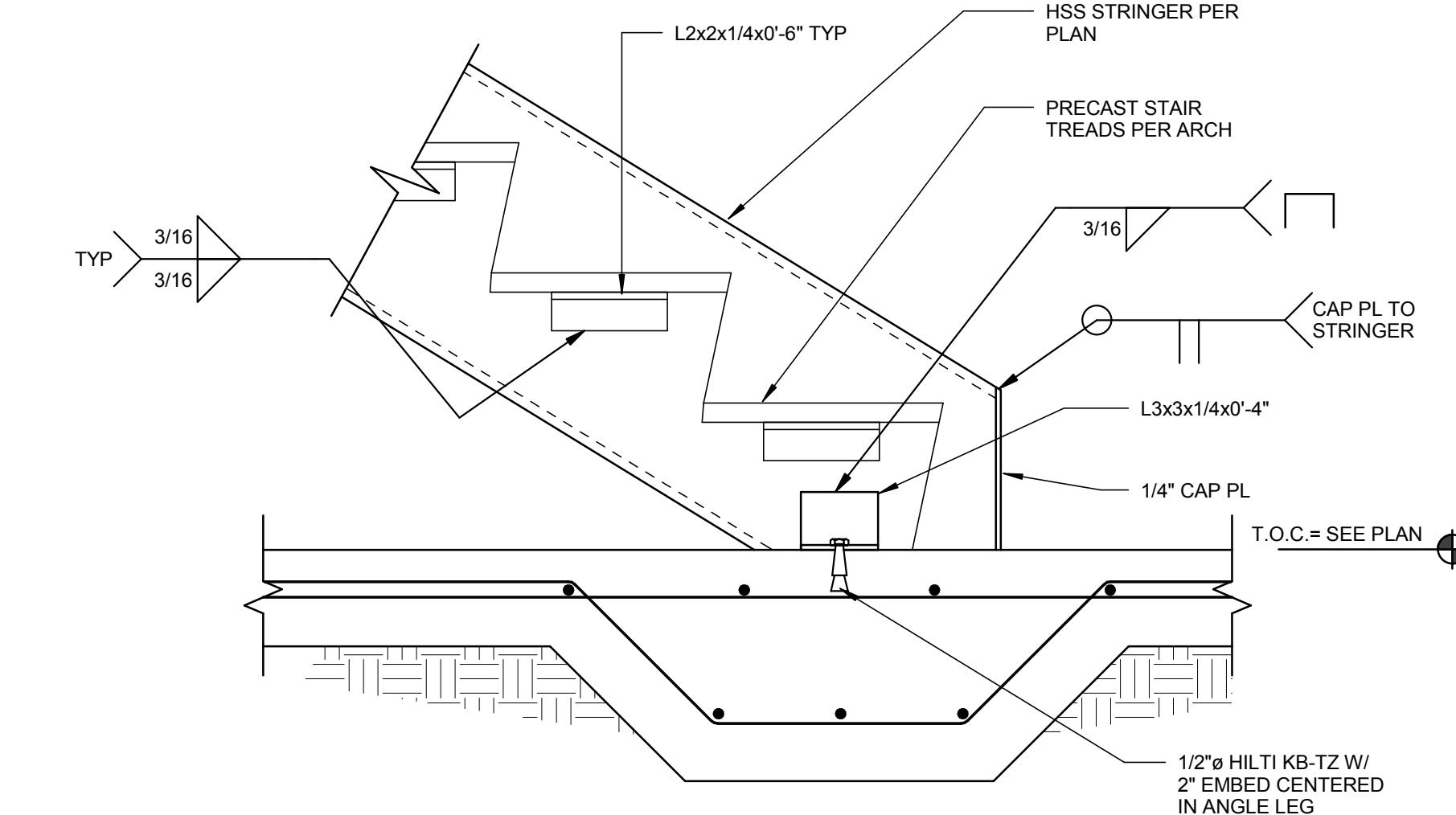
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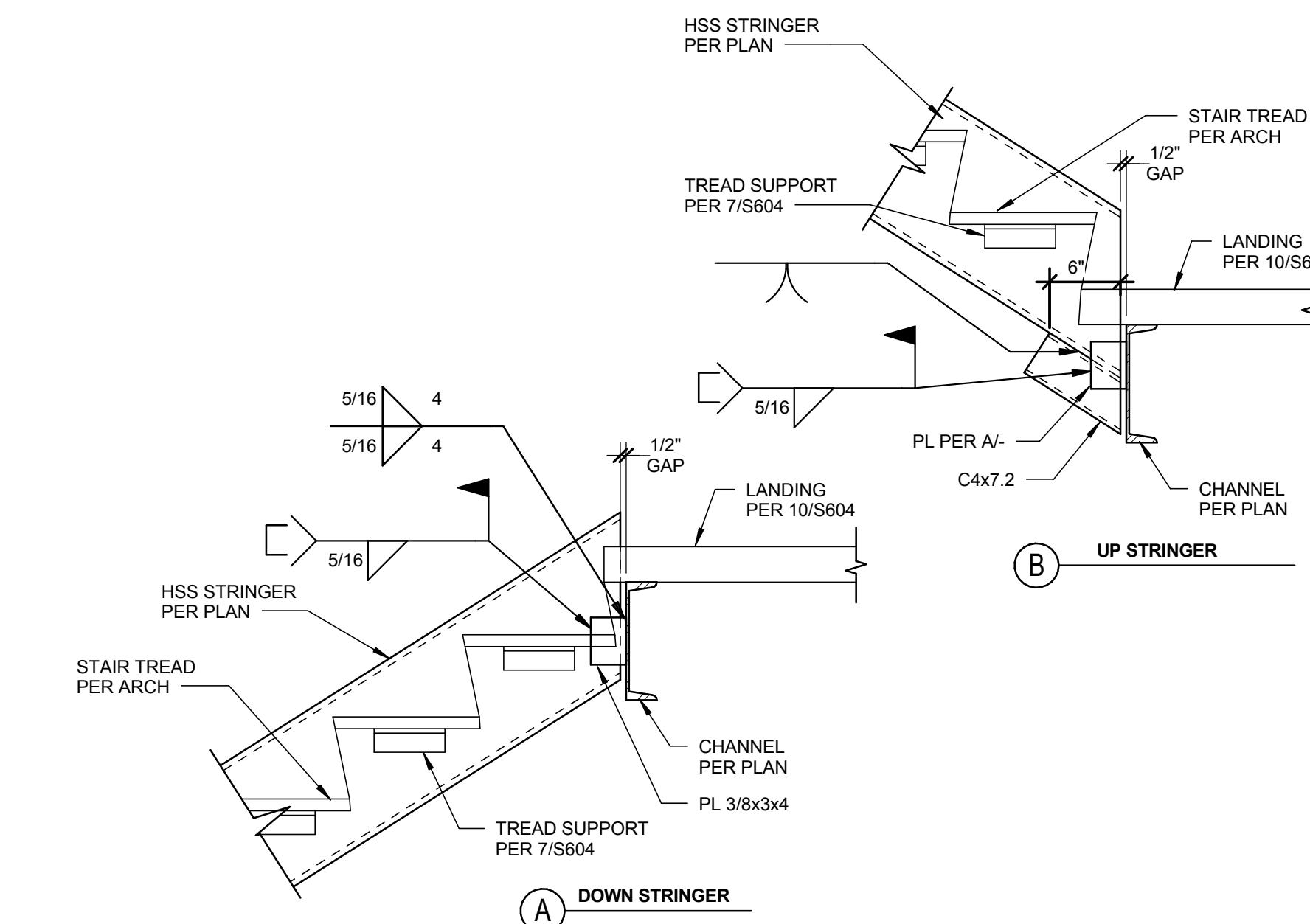
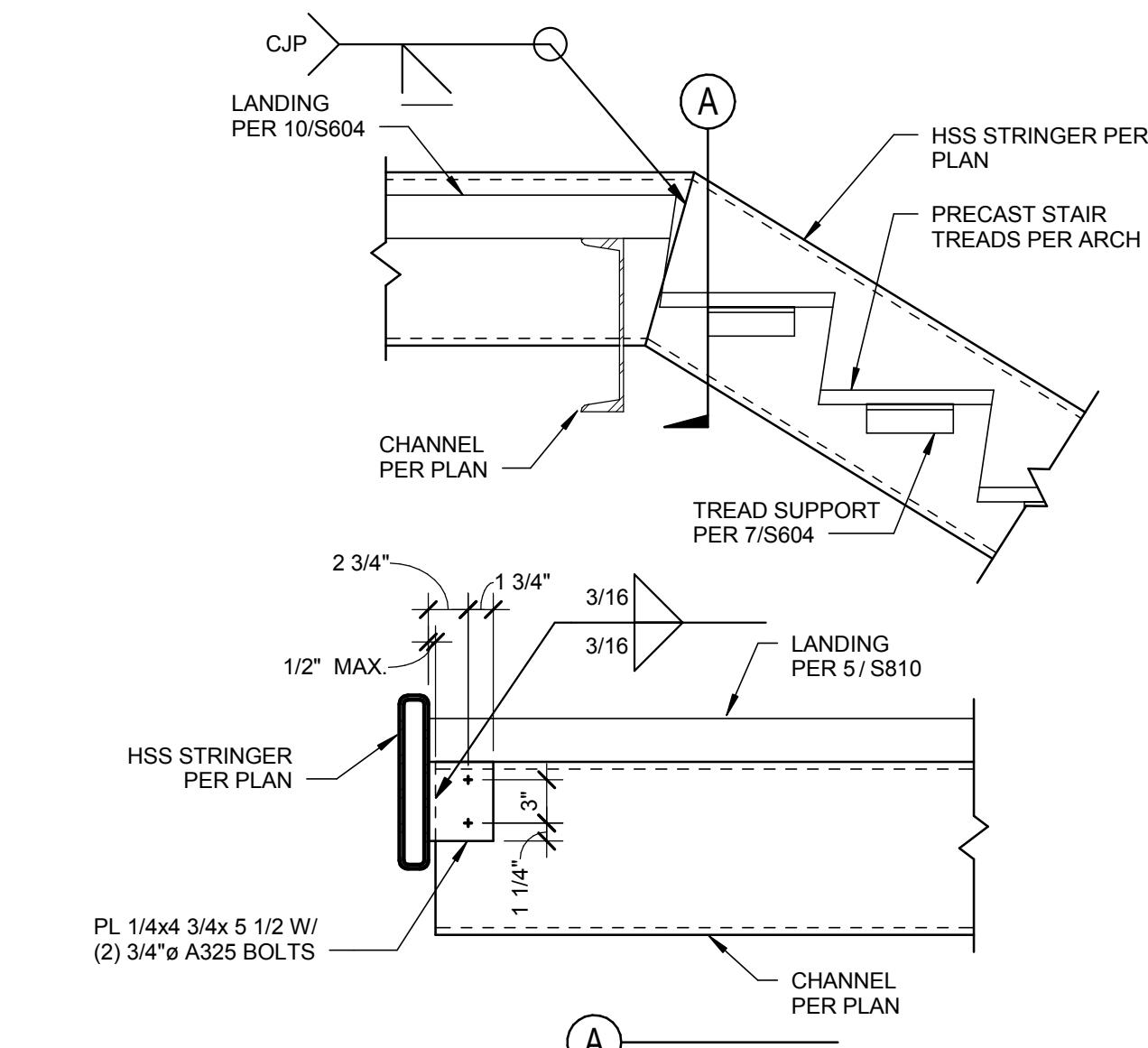
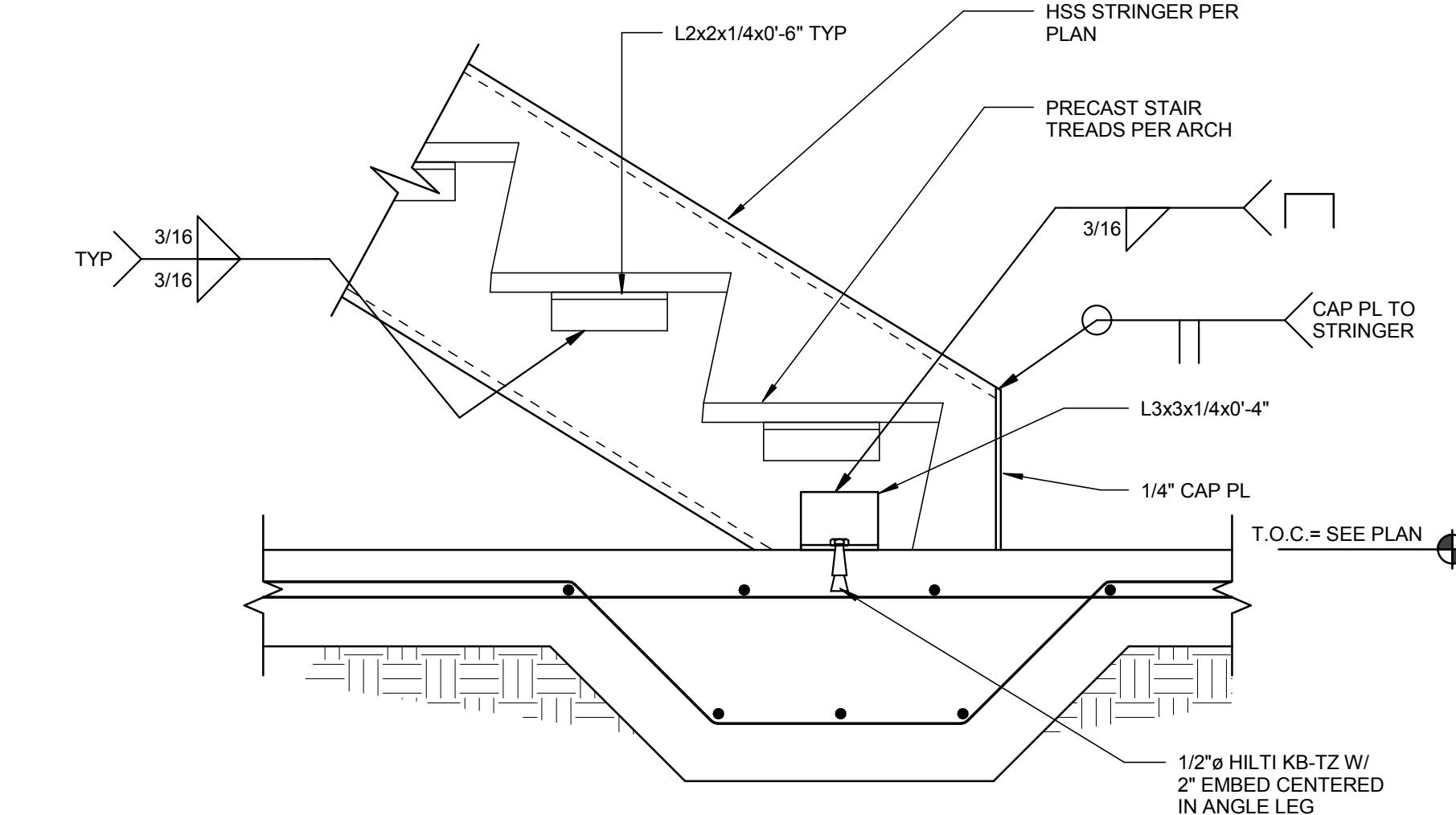
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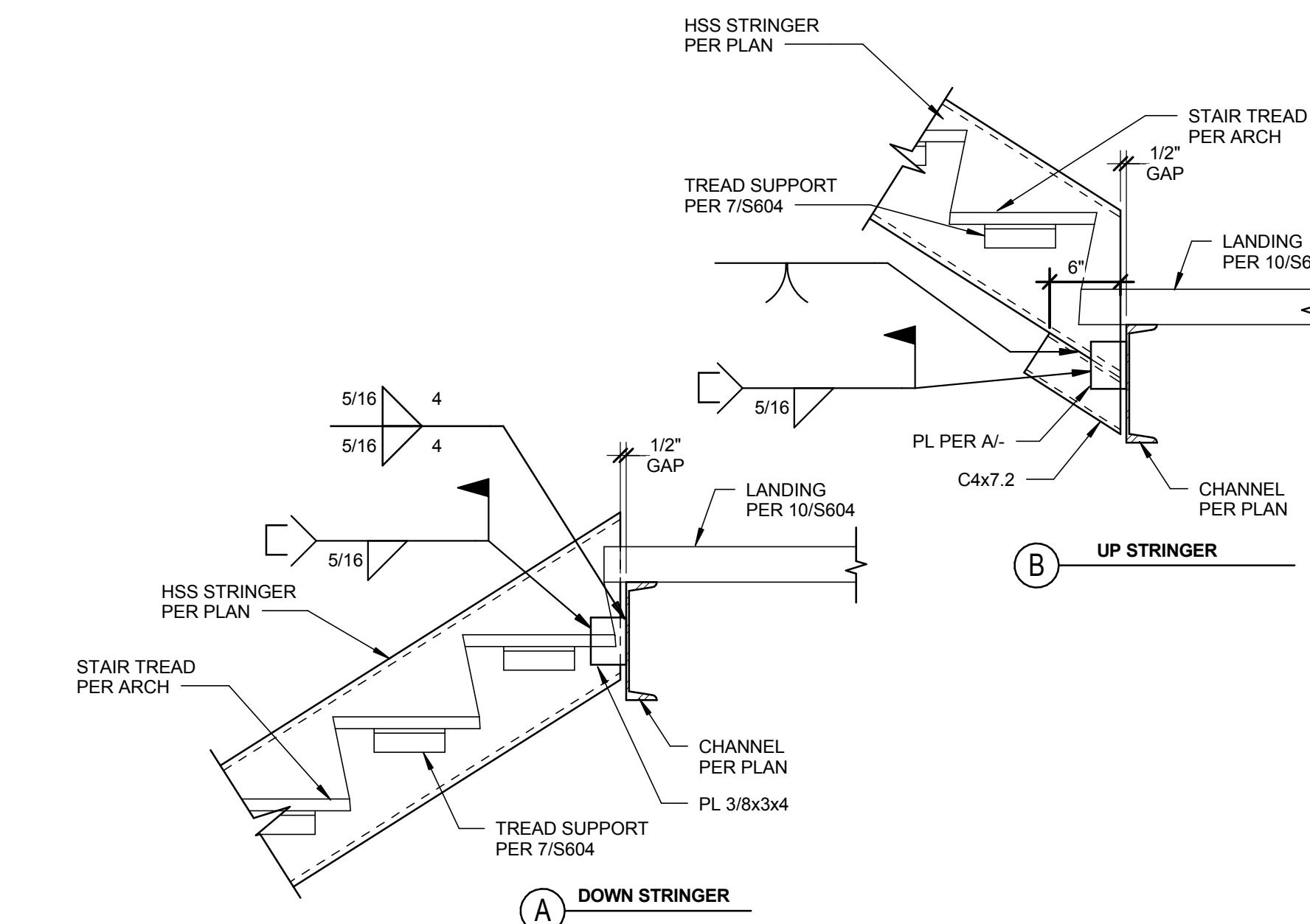
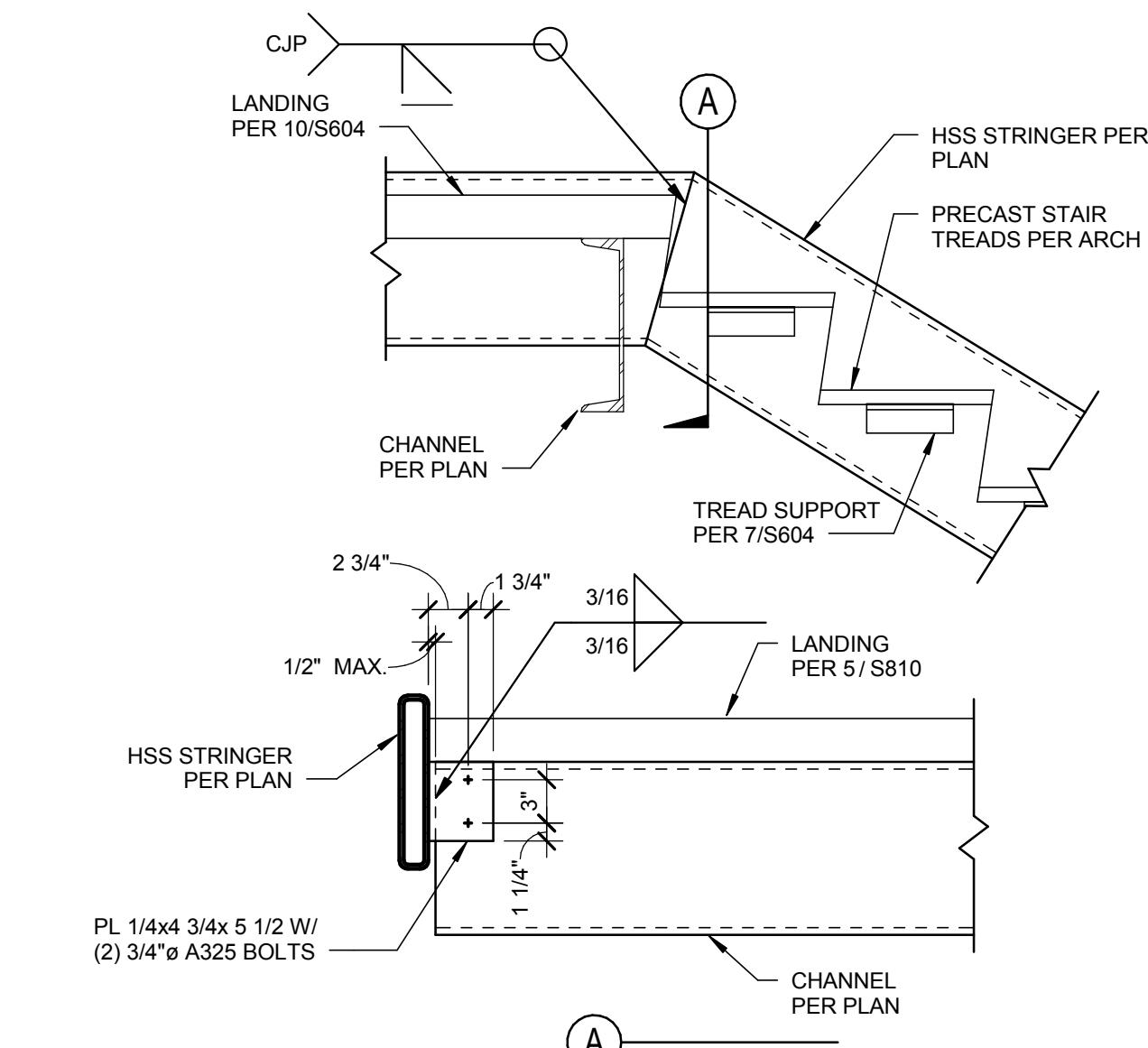
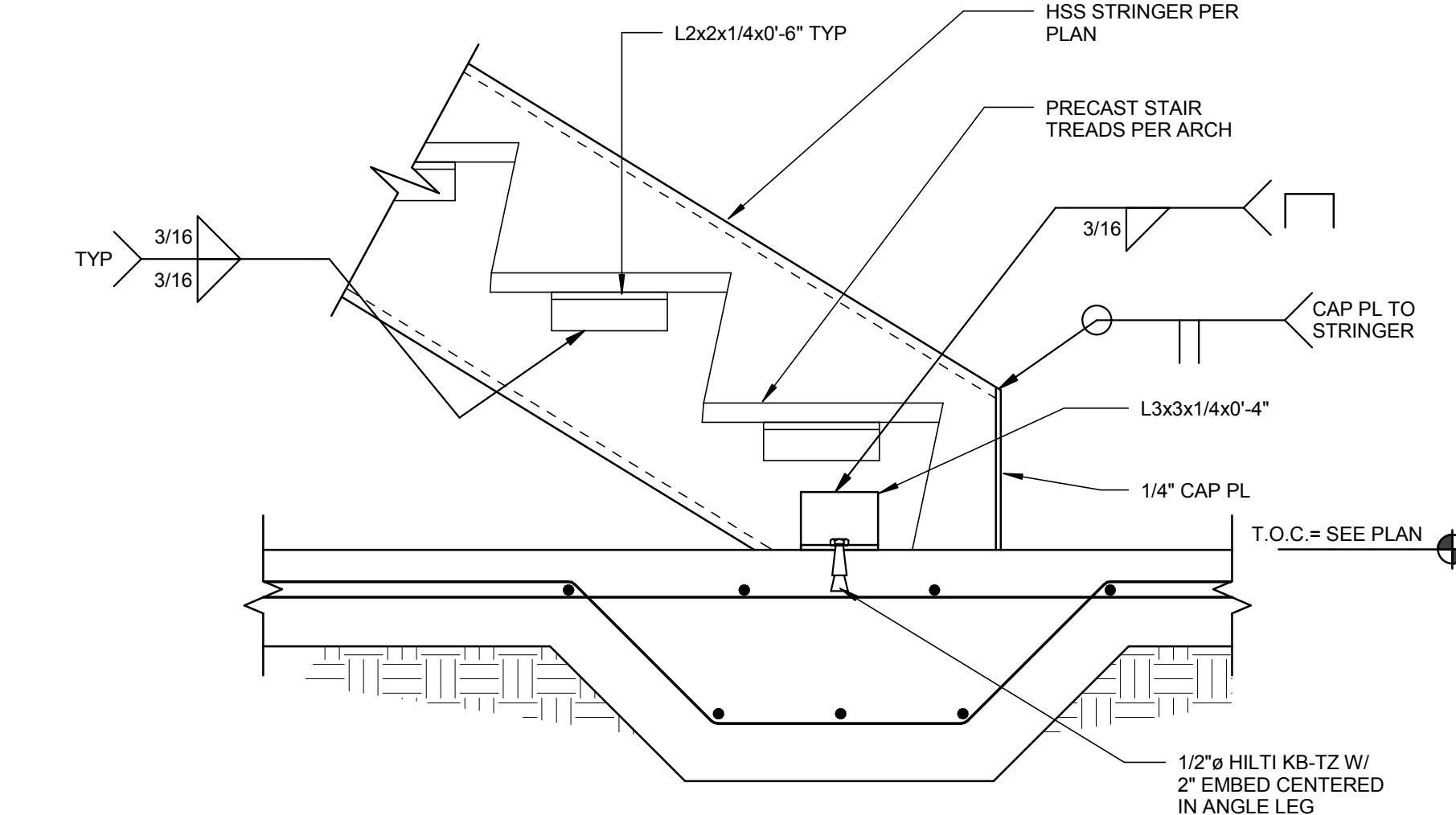
KK



LL



MM



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Seattle, WA 98115 | (206) 522-3520

STAMP:

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CONSULTANT:

kpff

412 E. Parkcenter Blvd, Suite 204
Boise, ID 83706
O: 208.336.6985
www.kpff.com

PROJECT INFORMATION:

City of Boise Fire Station 4
8485 W. Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

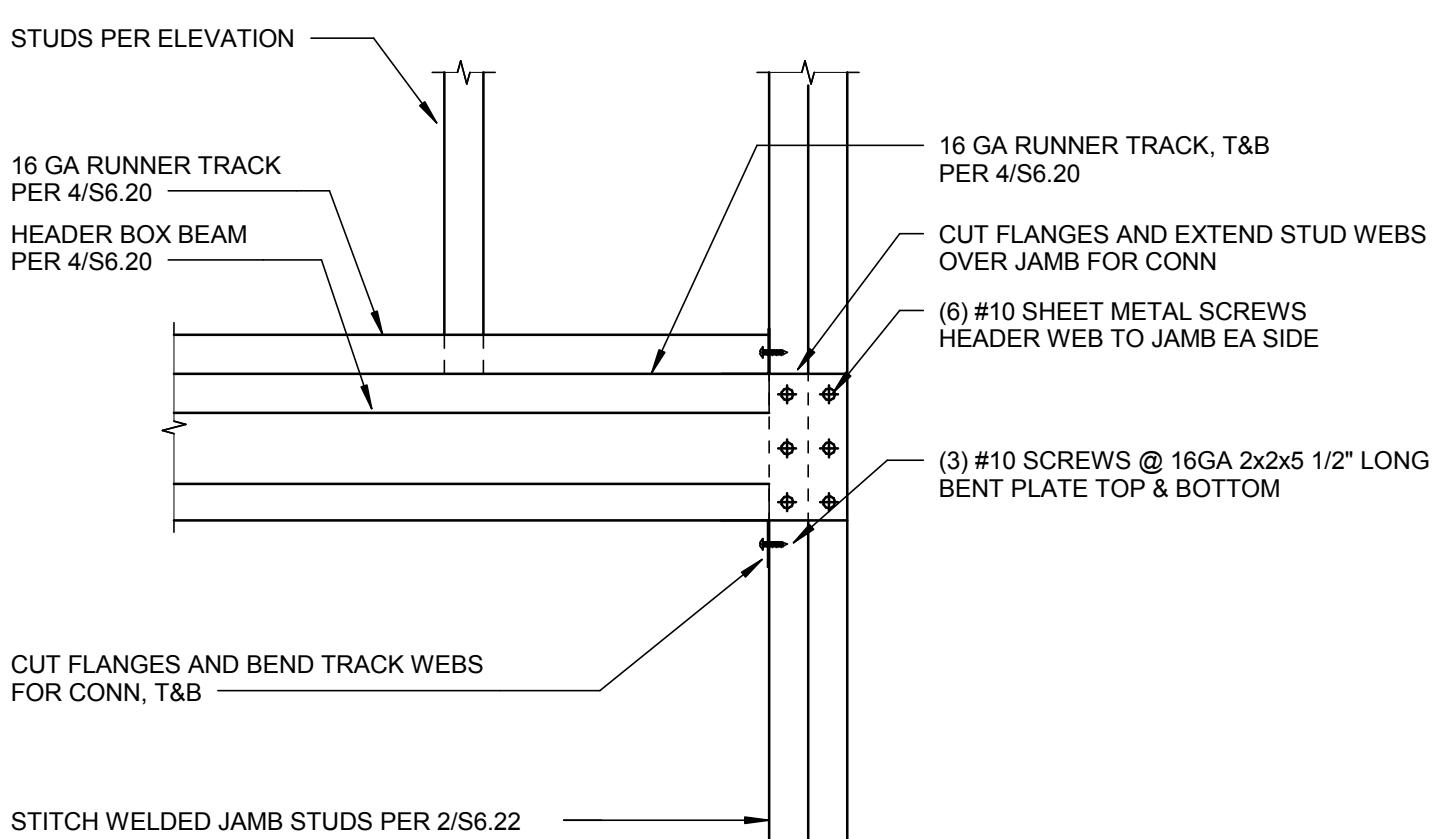
PROJECT PHASE	75% CD
PROJECT NUMBER	114747.01
PROJECT MANAGER	J. Chaffield
PROJECT ARCHITECT	J. Chaffield
DESIGN	J. Chaffield
DRAWN BY	Author
SHEET NAME:	

EXTERIOR WALL
TYPICAL DETAILS

SHEET NUMBER:

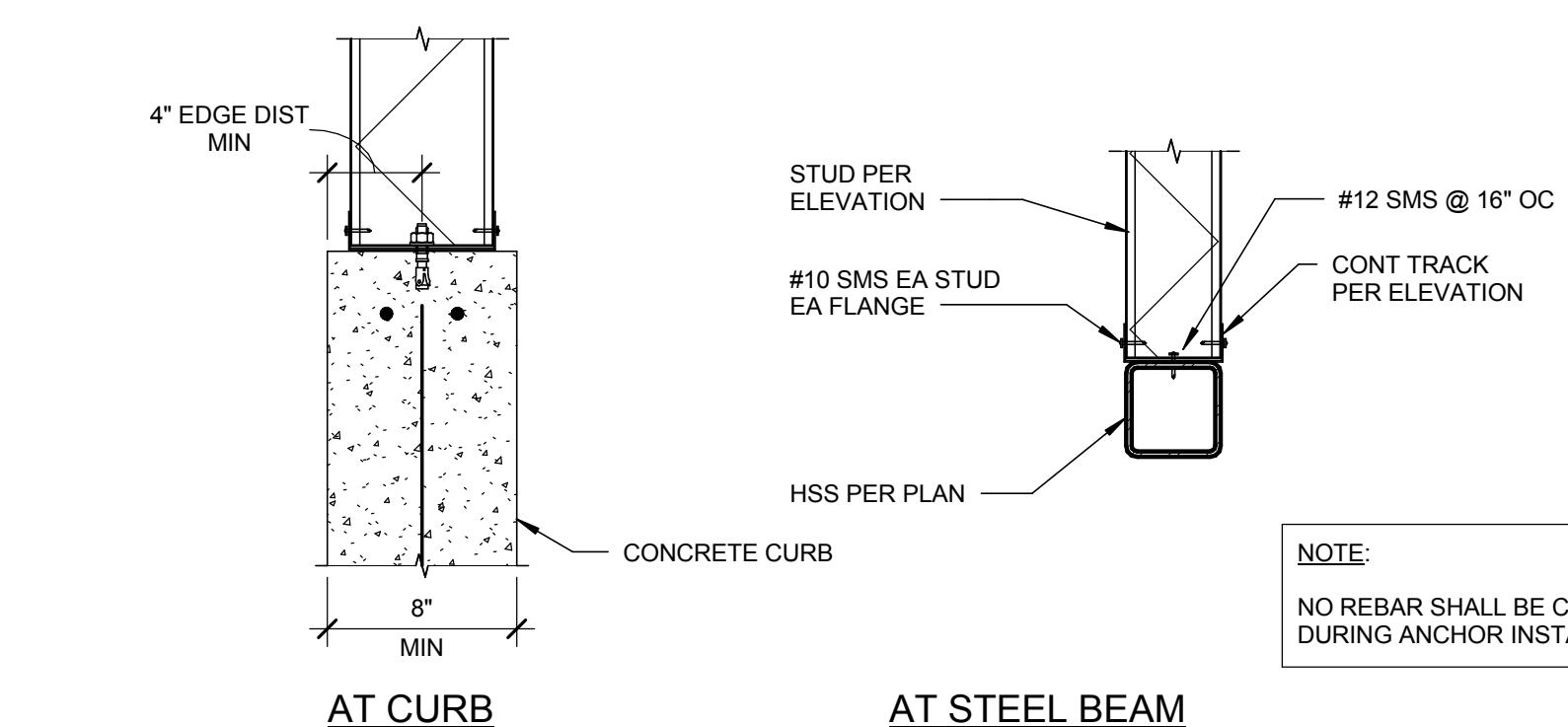
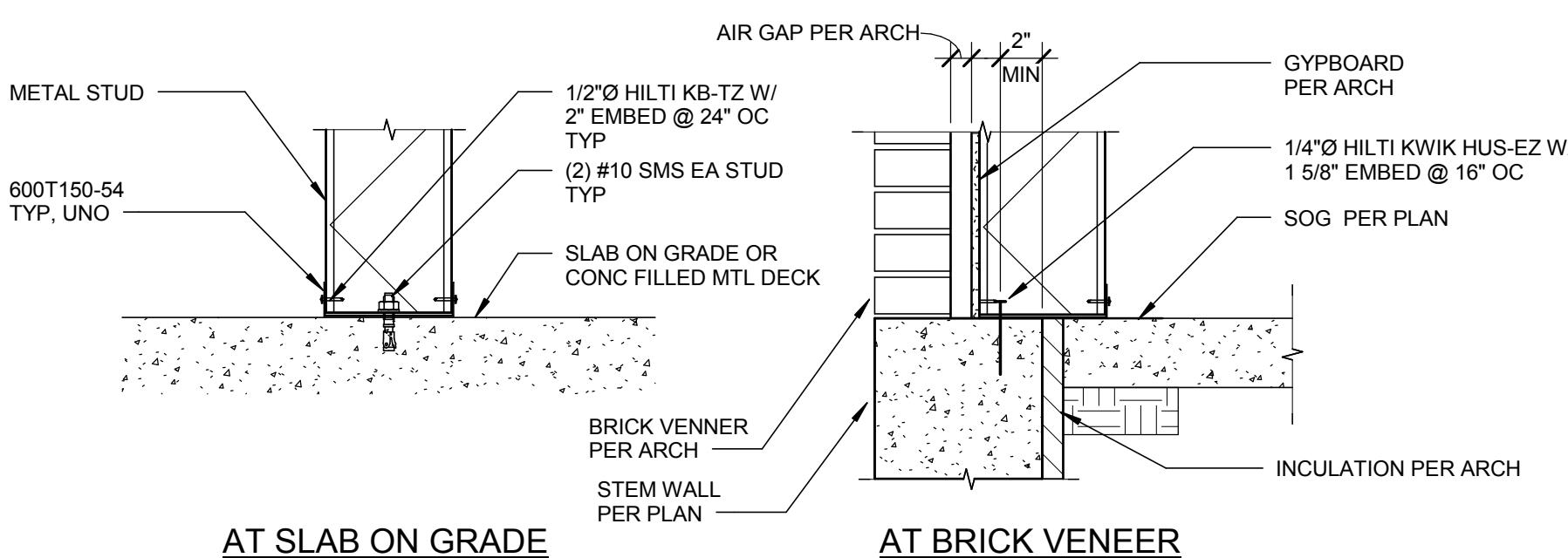
S901

11.09.15



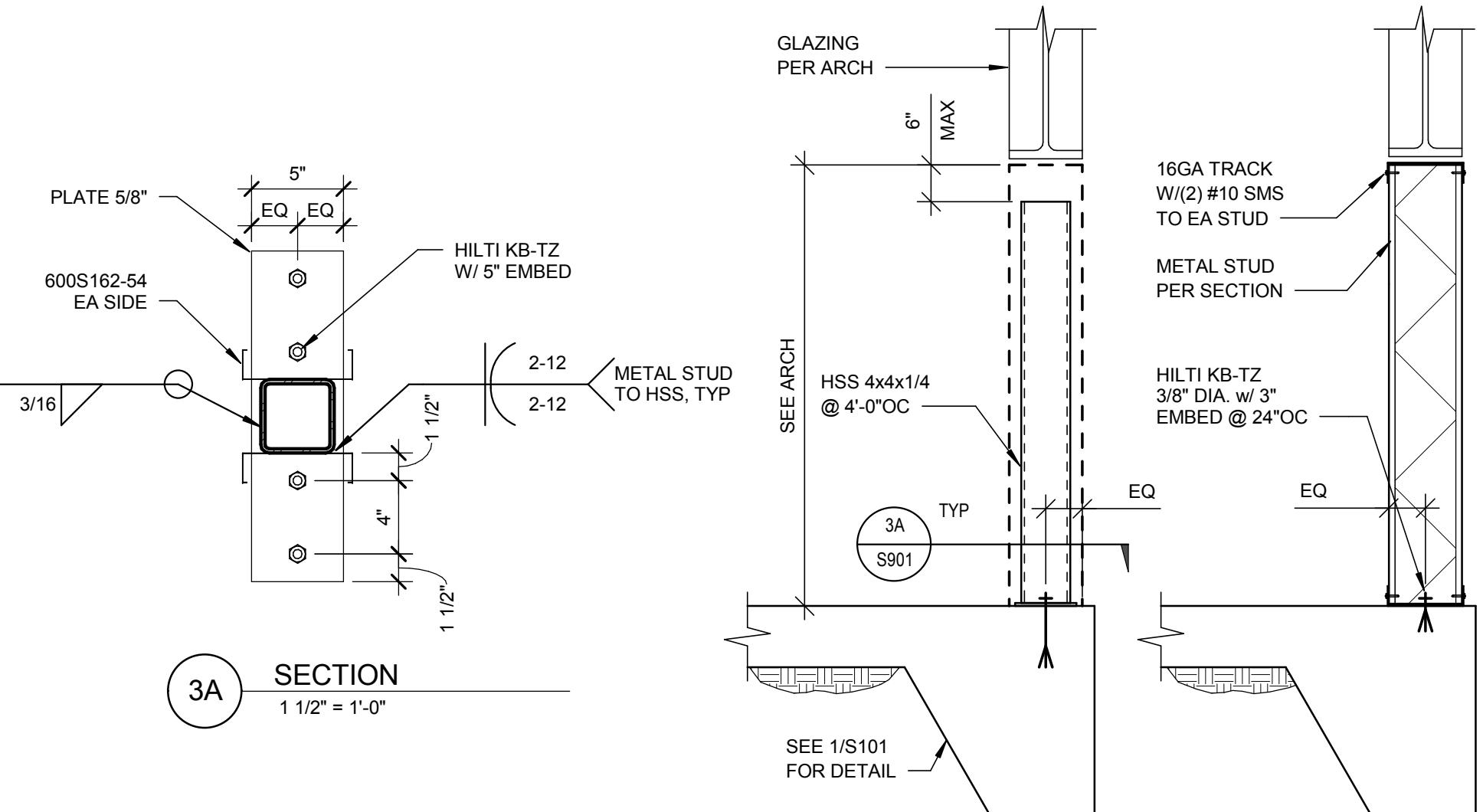
1 TYPICAL HEADER/SILL TO JAMB CONNECTION

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



2 WALL SILL ATTACHMENT DETAIL

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



3 WINDOW SILL DETAIL

SCALE : 1" = 1'-0"

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PROJECT INFORMATION:

City of Boise Fire Station 4
8485 W. Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION
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PROJECT PHASE 75% CD

PROJECT NUMBER	114747.01
PROJECT MANAGER	J. Chaffield
PROJECT ARCHITECT	J. Chaffield
DESIGN	J. Chaffield
DRAWN BY	Author

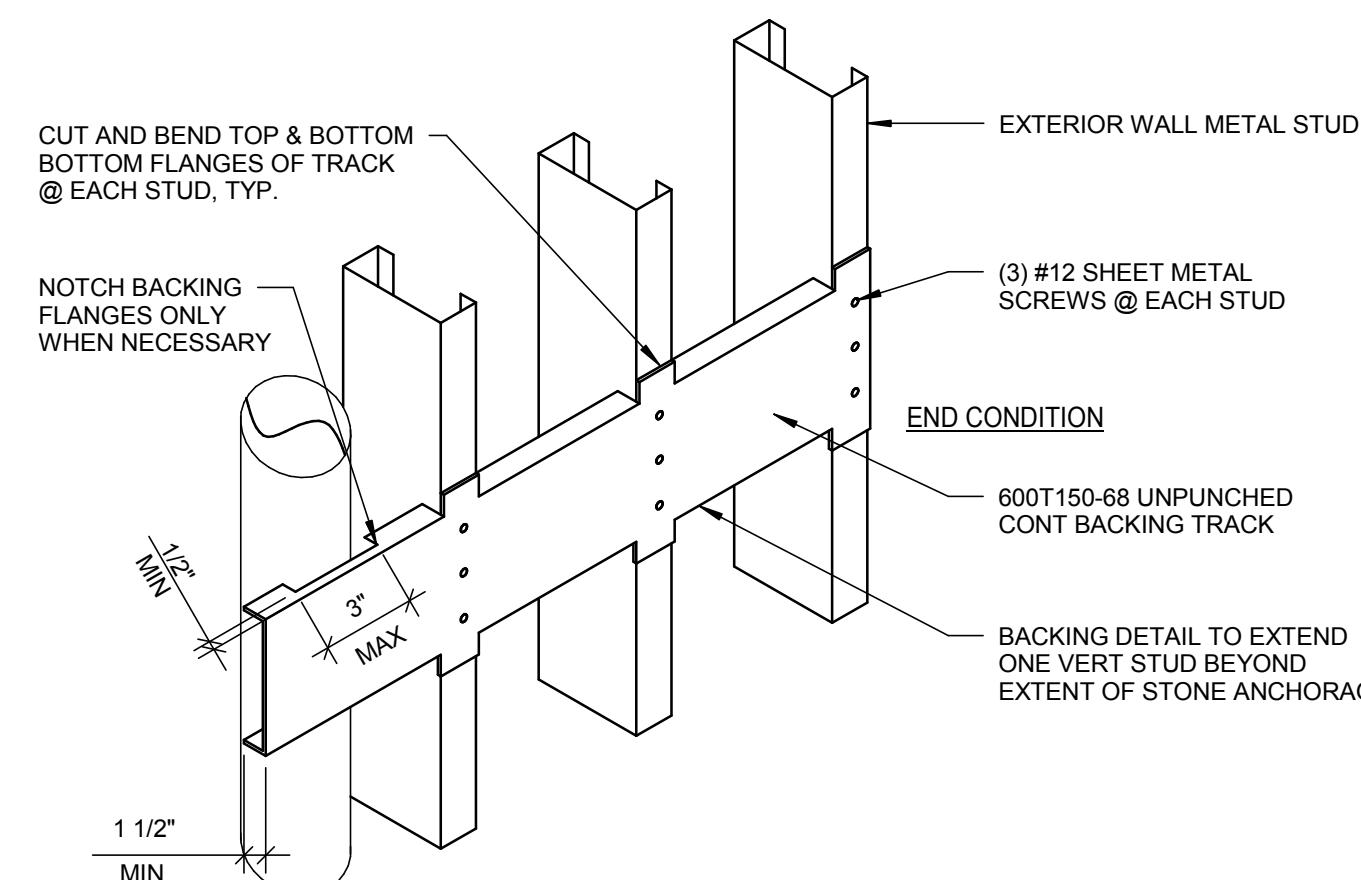
SHEET NAME:

EXTERIOR WALL
TYPICAL DETAILS

SHEET NUMBER:

S902

11.09.15



3 STEEL STUD BACKING DETAIL

SCALE : 1" = 1'-0"

- CUT AND BEND TOP & BOTTOM FLANGES OF TRACK @ EACH STUD, TYP.
 NOTCH BACKING FLANGES ONLY WHEN NECESSARY
 END CONDITION
 600T150-68 UNPUNCHED CONT BACKING TRACK
 BACKING DETAIL TO EXTEND ONE VERT STUD BEYOND EXTENT OF STONE ANCHORAGE
 1 1/2" MIN

#12 SMS @ EACH STUD

SEE DETAIL 2/S902 FOR ALTERNATE BRACING OPTIONS.

#12 SMS MAY BE USED IN LIEU OF #10 SMS SHOWN.

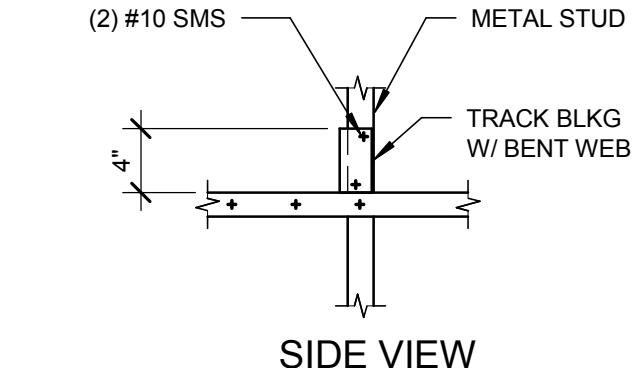
CONTINUOUS TOP TRACK (ATTACHED TO STRUCTURE) PER

METAL STUD

WALL COVERING

20GA x1 1/2" STRAP OR 1 1/2" COLD ROLLED CHANNEL

SPACING @ 48" OC MAX



SIDE VIEW

(2) #10 SMS

METAL STUD

TRACK BLK W/ BENT WEB

4"

1/2" MAX

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kpf

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8485 W. Ustick Rd, Boise, ID 83704

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PROJECT PHASE **75% CD**

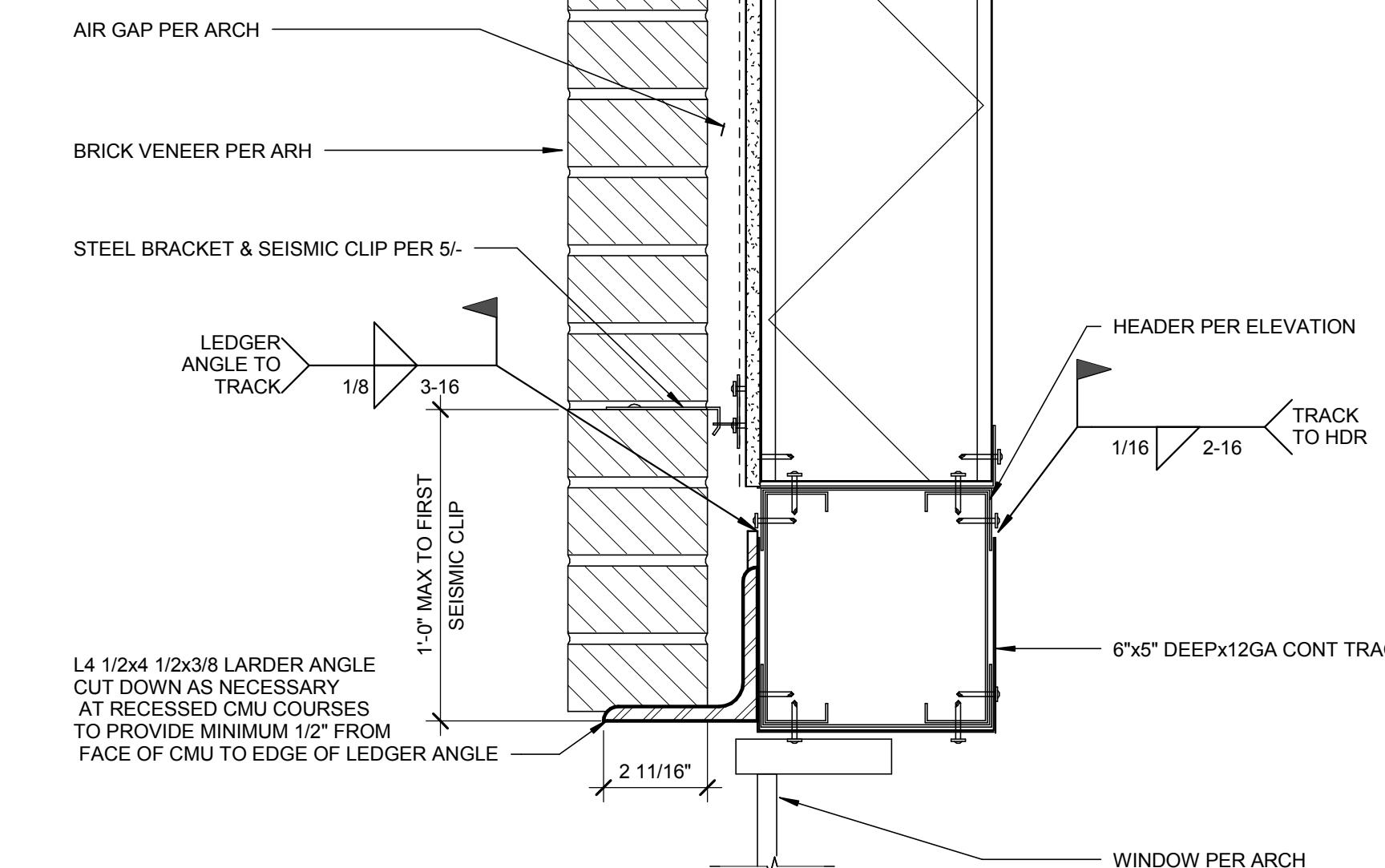
PROJECT NUMBER	114747.01
PROJECT MANAGER	J. Chaffield
PROJECT ARCHITECT	J. Chaffield
DESIGN	J. Chaffield
DRAWN BY	Author

SHEET NAME:

EXTERIOR WALL TYPICAL DETAILS

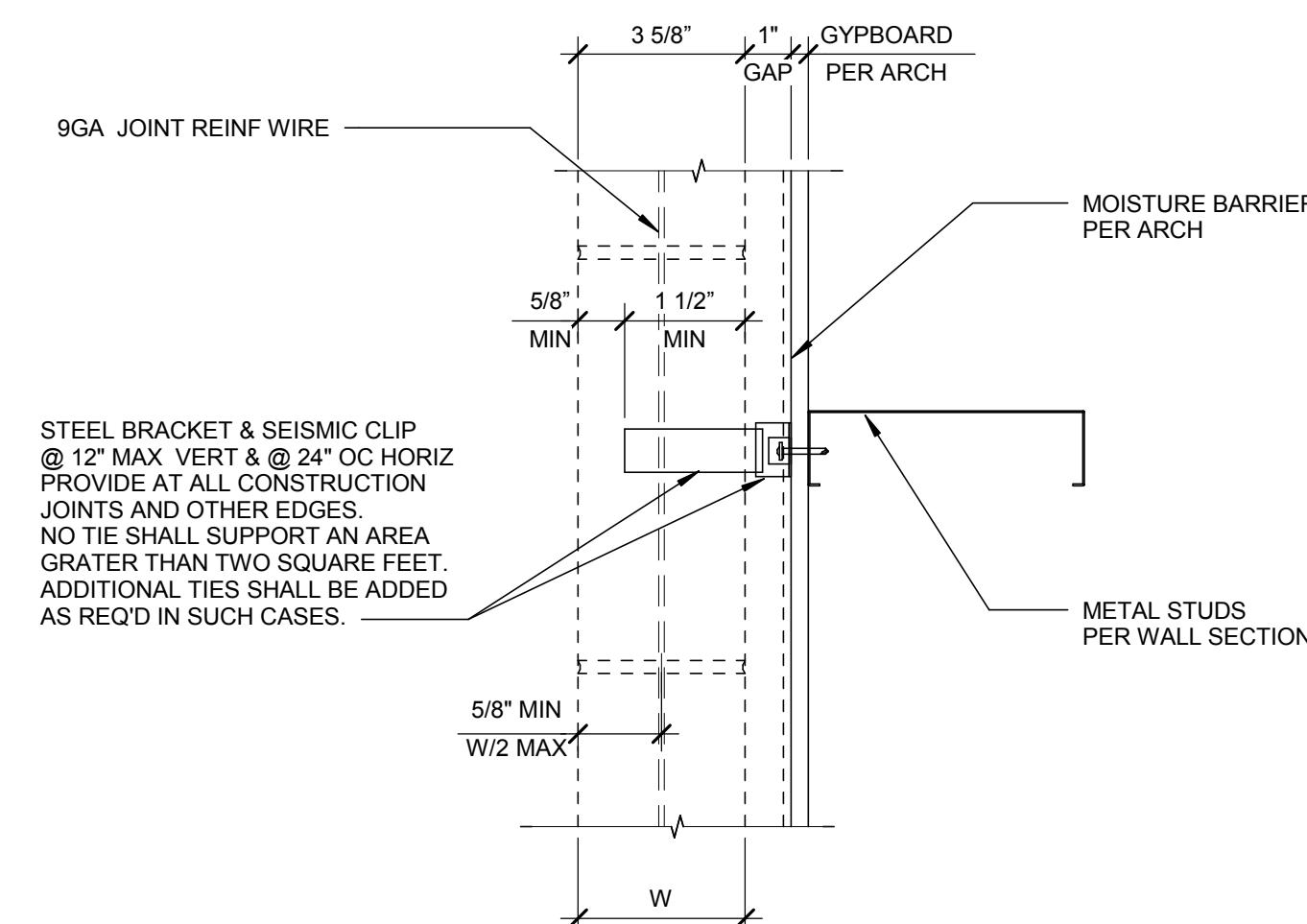
S903

11.09.15



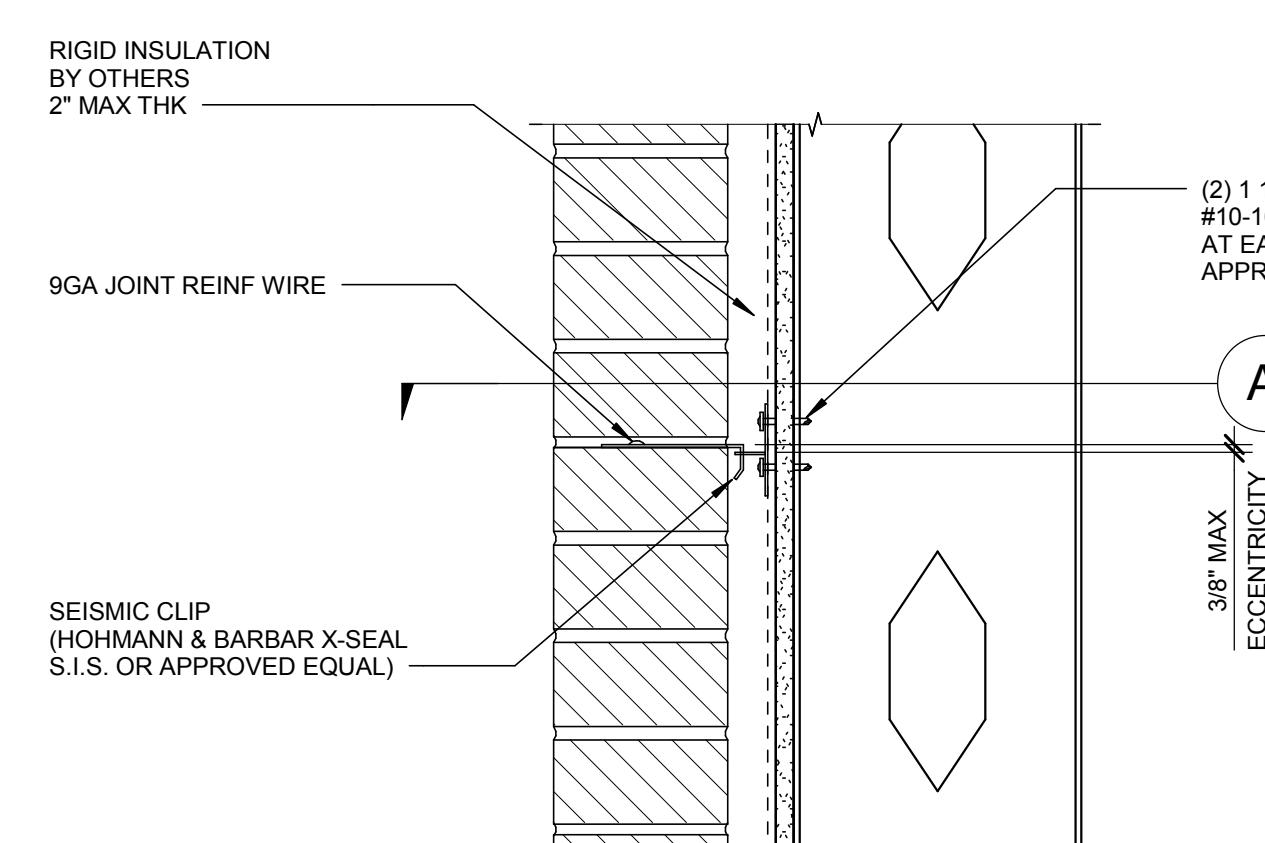
3 BRICK LEDGER ANGLE

SCALE : 3" = 1'-0"



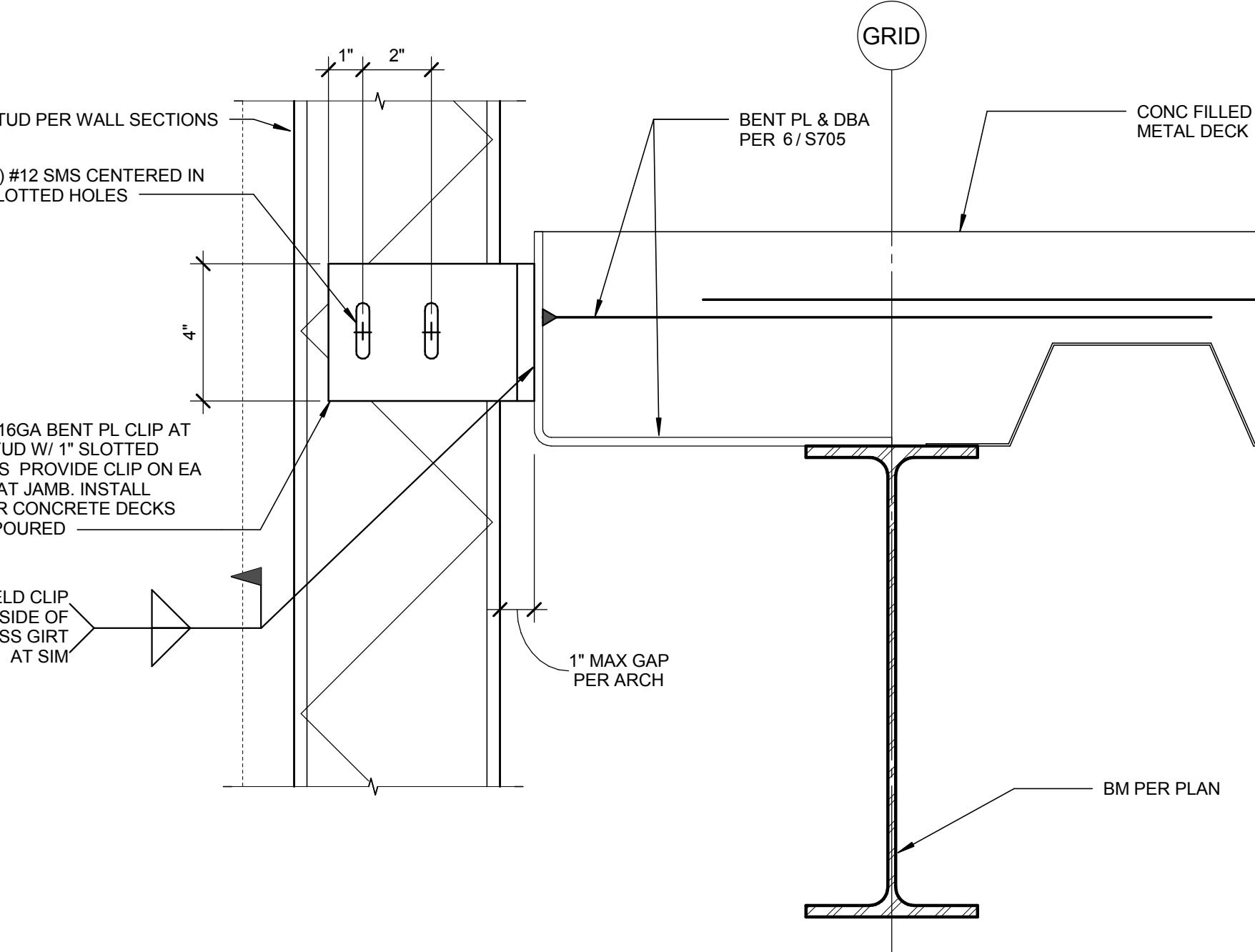
SECTION

SCALE : 3" = 1'-0"



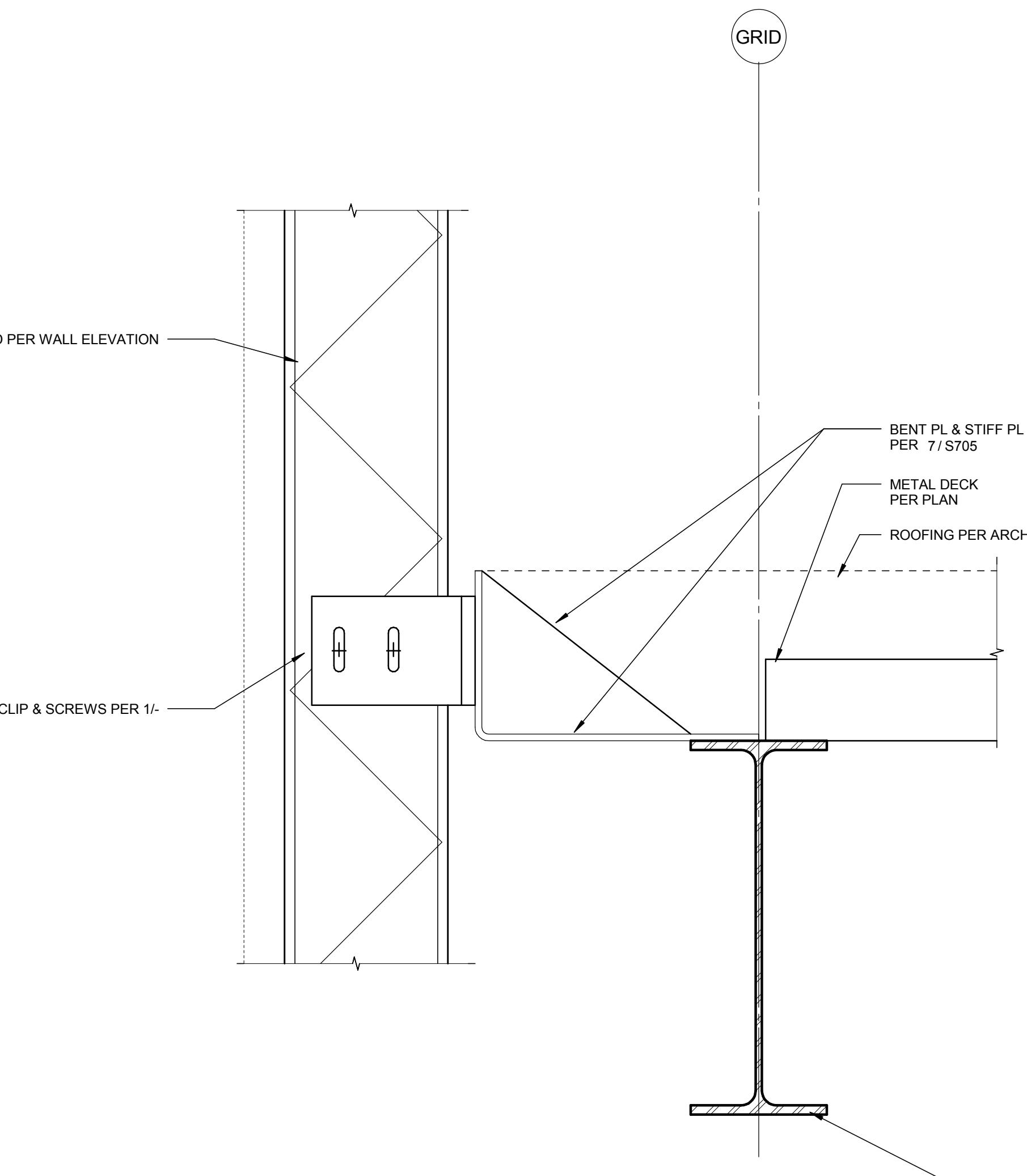
4 TYPICAL BRICK METAL STUD CONN

SCALE : 3" = 1'-0"



1 TYPICAL METAL STUD CONN TO CONC DECK

SCALE : 3" = 1'-0"



2 TYPICAL METAL STUD CONN TO METAL DECK

SCALE : 3" = 1'-0"

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REVISIONS:

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PROJECT PHASE	75% CD
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PROJECT NUMBER	114747.01
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PROJECT MANAGER	J. Chatfield
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PROJECT ARCHITECT	J. Chatfield
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DESIGN	J. Chatfield
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DRAWN BY	Author
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SHEET NAME:

**EXTERIOR WALL
TYPICAL DETAILS**

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

S904

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1

TYPICAL ROOF LEVEL SPANDREL FRAMING

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

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

SHEET NAME:

**TYPICAL EXTERIOR
WALL DETAILS**

SHEET NUMBER:

S905

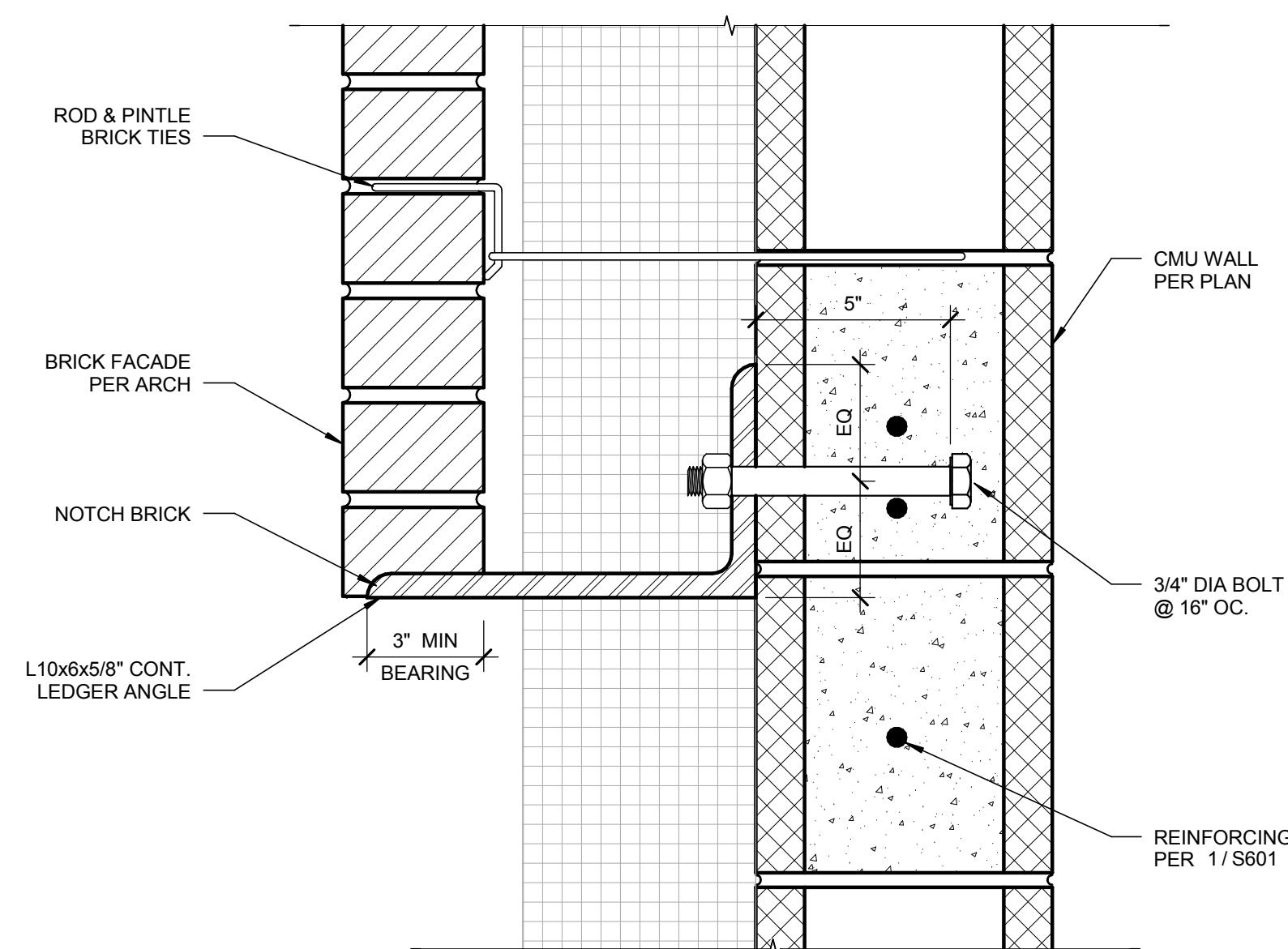
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A

B

C

D



1

RELIEF ANGLE AT CMU WALL

SCALE : 3" = 1'-0"

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01-28-16

CONSULTANT:

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208 334 0585
www.musgrovepa.comOVER 30 YEARS OF EXCELLENCE
project number: 15-061City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE

75% CD'S

PROJECT NUMBER

15-27

PROJECT MANAGER

J. Chatfield

PROJECT ARCHITECT

J. Chatfield

DESIGN

J. Chatfield

DRAWN BY

LR

SHEET NAME:

MECHANICAL COVER SHEET

MOOO

MECHANICAL ABBREVIATIONS	
A/C or AC	AIR CONDITIONING
AF	ADJUSTABLE FINISHED COLOR
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
CC	COOLING COIL
CD	CONDENSATE DRAIN LINE
CDR	CONDENSER WATER RETURN
CFS	CUBIC FEET PER SECOND
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
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	ENTERING STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
F	FIRE SPRINKLER LINE
FOO	FLOOR OPEN OUTLET
FD	Fire DAMPER
FLA	FULL LOAD AMPS
FLR	FLOOR
FPM	FEET PER MINUTE
FS	FLOW SWITCH
FT	FEET
G	LOW PRESSURE NATURAL GAS
GA	GEAR CLEANOUT
GO	GEODESIC CLEANOUT
GPM	WATER FLOW RATE (GALLONS PER MINUTE)
GWR	GEOTHERMAL WATER RETURN
GWS	GEOTHERMAL WATER SUPPLY
HC	HEATING COIL
HP	HORSE POWER
HVAC	HEATING, VENTILATING, AIR CONDITIONING
HW	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
NC	NOISE CRITERIA
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NTS	NOT TO SCALE
OD	OVERFLOW DRAIN LINE
OSA	OUTSIDE AIR
PD	PRESSURE DROP
PH or °	PHASE
PRV	PRESSURE REDUCING VALVE
RA	RETURN AIR
RD	ROOF DRAIN LINE
RTU	ROOFTOP UNIT
RPM	REVOLUTIONS PER MINUTE
S	SUCTION REFRIGERANT LINE
SD	STORM DRAIN LINE
SFR	SUPERIOR ENERGY EFFICIENCY RATIO
SP	COMBINATION SMOKE/FIRE DAMPER
SP	STATIC PRESSURE
SYM	SYMBOL
T & P	TEMPERATURE AND PRESSURE
TEMP	TEMPERATURE
TS	TEMPERATURE SENSOR (DUCT OR PIPING)
TYP	TYPICAL
UPC	UNIFORM PLUMBING CODE
U	URINAL
VTR	VENT THROUGH ROOF
V	VOLTS
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 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-IN FITTING W/ 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 VAVES		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		TEMPERED WATER (TW)
	PRESSURE GAUGE (LIQUID FILLED W/ ISOLATION VALVE)		TW
	TEMPERATURE SENSOR (DUCT OR PIPING)		MPG
	FLOW SWITCH		LPG
	STAINLESS STEEL BRAIDED FLEX CONNECTION		FIRE SPRINKLER LINE
	ELASTOMETRIC FLEX CONNECTOR		GEOTHERMAL WATER SUPPLY
	SUCTION DIFFUSER		GEOTHERMAL WATER RETURN
	Y TYPE STRAINER (1/2" OR LARGER PROVIDED W/ BLOW DOWN VALVE)		CWS
	FLOW DIRECTION		CWR
	DEMOLITION / EQUIPMENT TO BE REMOVED		CWS
	NEW TO EXISTING CONNECTION POINT		CWR
	EXISTING		HWS
	FUTURE		HWR
	NEW		L
	REDUCED PRESSURE BACKFLOW PREVENTER		S
	DOUBLE CHECK BACKFLOW PREVENTER		—
	UNION		—
	AIR VENT		—
	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:

1. 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).

2. 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 COVERED. ALL JOINTS AND SEAMS SHALL BE SEALED TO MAINTAIN THE CONTINUITY OF THE VAPOR RETARDER.

E. ALL DUCT JOINTS, SEAMS, AND CONNECTIONS SHALL BE FASTENED AND SEALED WITH WELDS, GASKETS, ADHESIVES, MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS, OR TAPES. TAPES AND MASTICS SHALL BE LISTED AND LABELED PER UL181A OR UL181B. DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCTS. DUCT CONNECTIONS TO FLANGES OR EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED.

F. MINIMUM REQUIREMENTS (THICKNESS) FOR PIPING INSULATION SHALL BE AS FOLLOWS:

FLUID NOMINAL PIPE DIAMETER 1/2" TO 1 1/2" 2" AND ABOVE 1 1/2" 1 1/2"

1. REFRIGERANT 1 1/2" 1 1/2"

THE ABOVE INSULATION IS BASED ON HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU-INCH/HOUR-FT².G. DOMESTIC HOT WATER PIPING SYSTEMS SHALL BE INSULATED WITH 1" INSULATION HAVING A CONDUCTIVITY NOT EXCEDING 0.27 BTU-INCH/HOUR-FT².

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CONSULTANT:



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www.musgrovepa.com

OVER 30 YEARS OF EXCELLENCE
project number: 15-061

PROJECT INFORMATION:



City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

C
REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE	75% CD'S
---------------	----------

PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	LR

SHEET NAME:

**MECHANICAL
COMCHECK**

D
SHEET NUMBER:

M001

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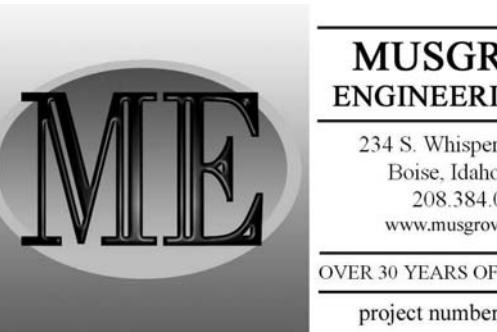
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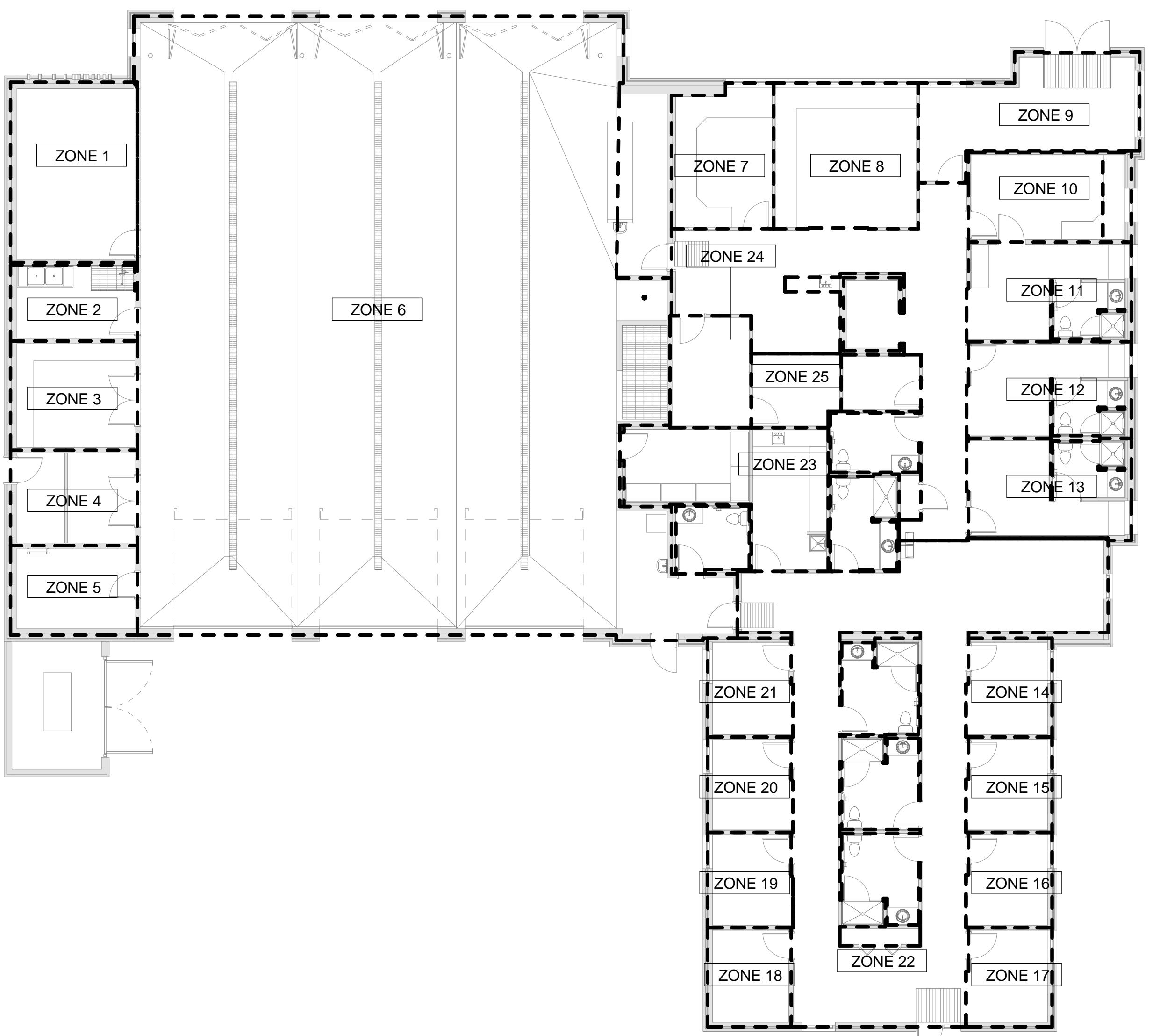
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MECHANICAL ZONING
PLANS

D
SHEET NUMBER:

M002

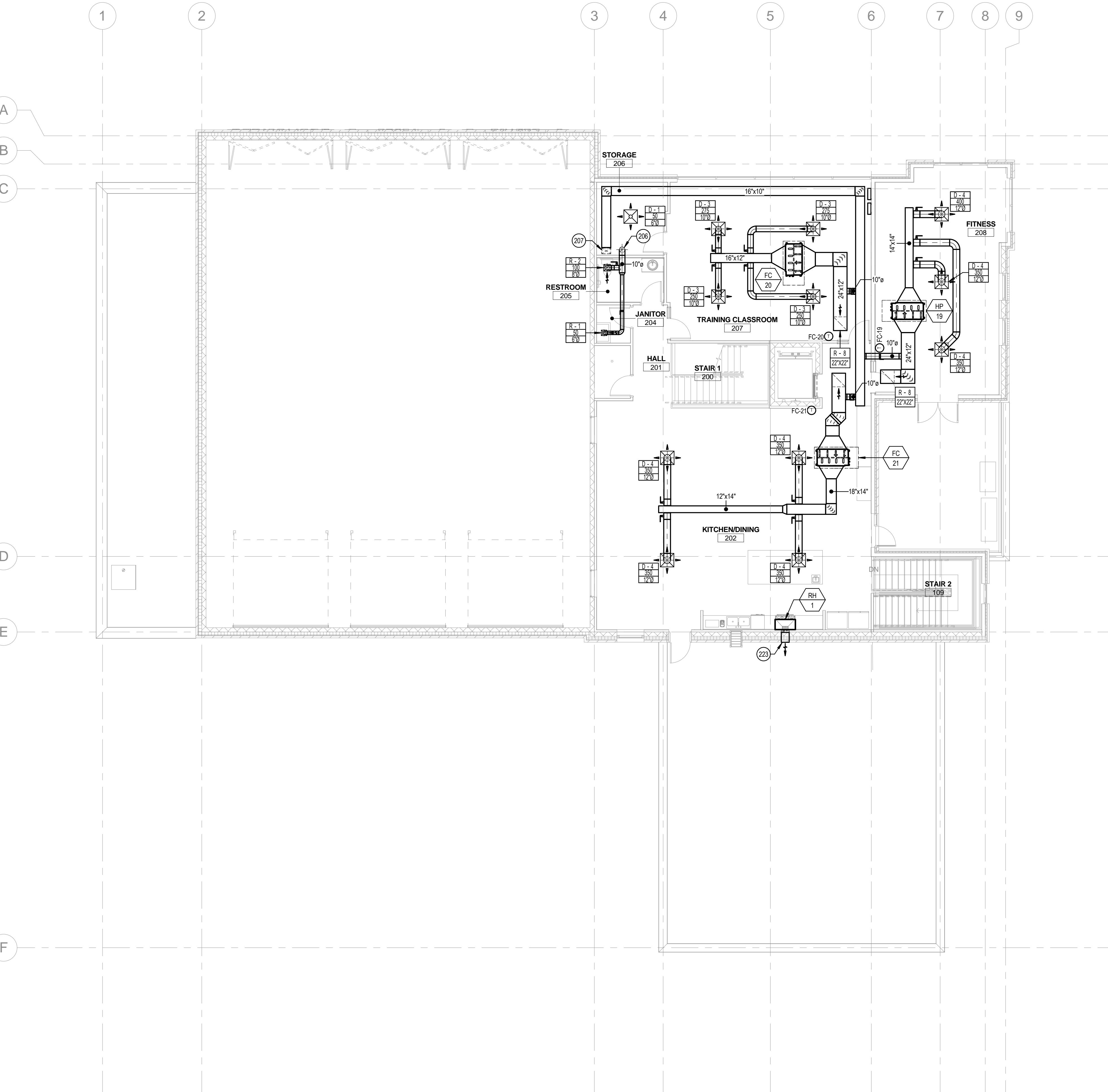
12.07.15



1ST FLOOR MECHANICAL ZONING PLAN
3/32" = 1'-0"



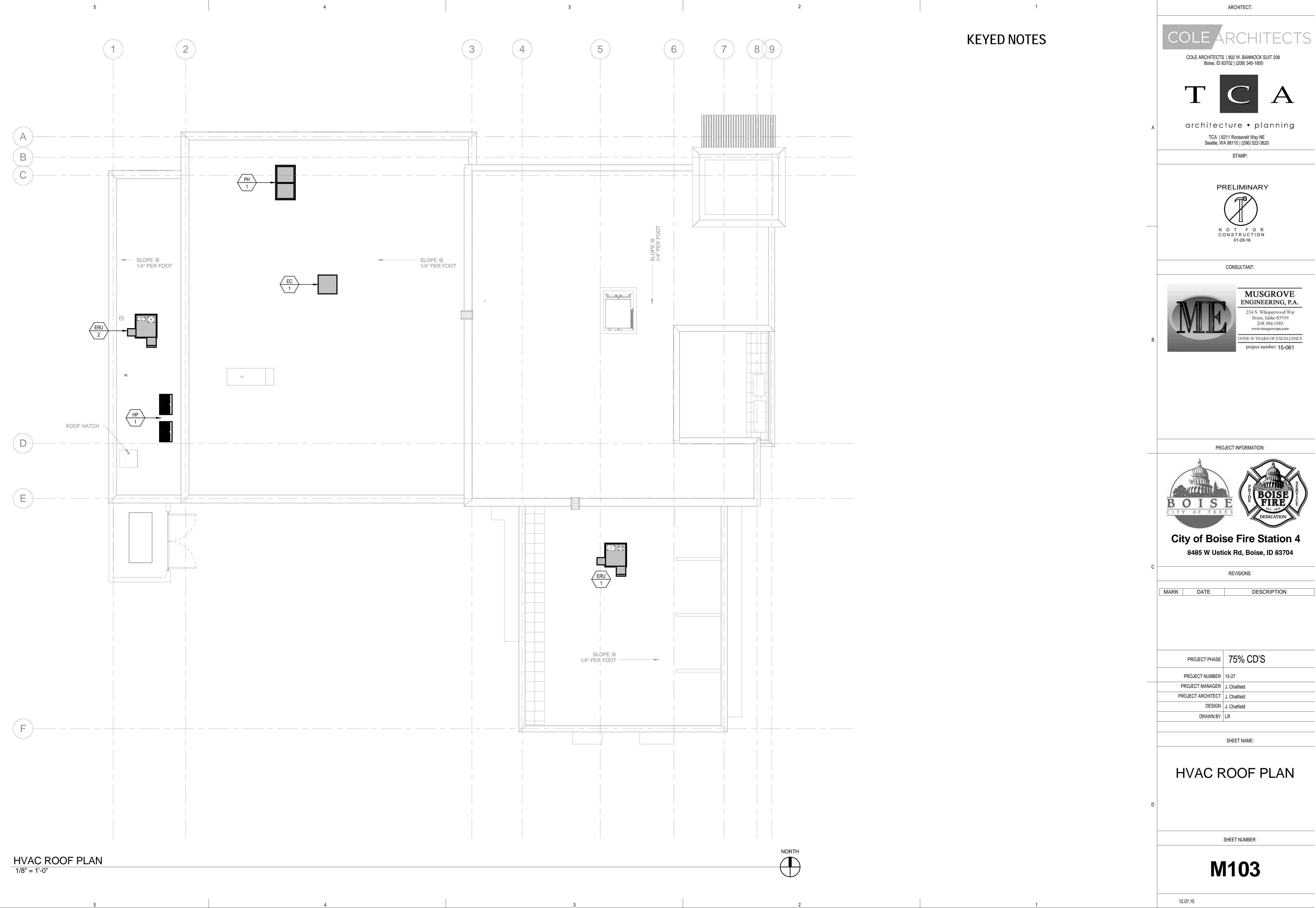
2ND FLOOR MECHANICAL ZONING PLAN
3/32" = 1'-0"



PROJECT INFORMATION:		
		City of Boise Fire Station 4 8485 W Ustick Rd, Boise, ID 83704
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PROJECT NUMBER	15-27	
PROJECT MANAGER	J. Chatfield	
PROJECT ARCHITECT	J. Chatfield	
DESIGN	J. Chatfield	
DRAWN BY	LR	
SHEET NAME:		
2ND FLOOR HVAC PLAN		
SHEET NUMBER:		
M102		

12.07.15





5 4 3 2 1

NOTES:

1. 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.
2. ROD CONTINUOUS ON 2" W.G. CLASS AND ON ALL DAMPERS OVER 12" DIAMETER.
3. BLADE 22 GAGE (MIN.), BUT NOT LESS THAN TWO GAGES MORE THAN THE DUCT GAGE.
4. PROVIDE REMOTE CEILING OPERATOR WHERE DAMPER IS INACCESSIBLE.
5. FOR DUCTS OVER 12" HIGH USE MULTIPLE BLADE DAMPERS (SEE FIG. C).
6. ALTERNATE MANUFACTURERS: AMERICAN WARMING, SAFE-AIR/DOWCO, J & J LOUVERS & DAMPERS, RUSKIN, NAILOR, ARROW UNITED, POTTEREF & CESCO.

A

FIG. A

FIG. B

B

FIG. C

FIG. D

SPIRAL DUCT DETAIL N.T.S.

C

① BALANCE DAMPER DETAIL NTS

NOTES:

1. TAKE-OFFS SHOULD NOT BE INSTALLED CLOSER THAN TWO WIDTHS TO ELBOWS OR INTERSECTIONS.
2. SEE BALANCE DAMPER DETAIL.
3. X NOT LESS THAN Y.
4. FLEXIBLE DUCTWORK SHALL BE FLEXMASTER 8-M, THERMAFLEX M-KE OR AN APPROVED EQUAL. FLEXIBLE DUCTWORK SHALL BE INSULATED WITH A MINIMUM R VALUE OF 5.
5. RUN-OUT SHALL BE SAME SIZE AS COLLAR.

SECTION ①

D

④ HIGH EFFICIENCY TAKE-OFF DETAIL NTS

NOTES:

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

5 4 3 2 1

② EXPOSED SPIRAL DUCT SUPPORT DETAIL NTS

NOTES:

1. SUPPORT SYSTEM SHALL NOT DAMAGE, CRIMP, OR INHIBIT DUCT FREE AREA IN ANY WAY.
2. FLEX DUCT MUST NOT EXCEED 6'-0" FROM CONNECTION TO TERMINATION.
3. MAXIMUM LENGTH BETWEEN SUPPORTS MUST NOT EXCEED 3'-0" O.C.
4. ATTACH BANDS OR WIRES TO SUPPORT STRUCTURE ABOVE.
5. FLEXIBLE DUCTWORK SHALL BE FLEXMASTER 8-M, THERMAFLEX MK-E OR AN APPROVED EQUAL.
6. FLEXIBLE DUCTWORK SHALL BE INSULATED WITH A MINIMUM R-VALUE OF 5.
7. 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.
8. TERMINAL DEVICES SHALL BE SUPPORTED INDEPENDENTLY OF THE FLEXIBLE DUCT.
9. REPAIR TORN OR DAMAGED VAPOR BARRIER/JACKET WITH DUCT TAPE LISTED AND LABELED TO UL 181B; IF INTERNAL CORE IS PENETRATED, REPLACE FLEXIBLE DUCT.
10. AVOID BENDING DUCT ACROSS SHARP CORNERS OR INCIDENTAL CONTACT WITH METAL FIXTURES, PIPES OR CONDUITS.
11. SHALL NOT BE INSTALLED WITHIN 4 INCHES OF HOT EQUIPMENT (FURNACES, BOILERS, STEAM PIPES, ETC.) THAT IS ABOVE 250° F.
12. SHALL NOT BE INSTALLED IN CONCRETE, BURIED BELOW GRADE OR IN CONTACT WITH THE GROUND.

③ FLEXIBLE DUCTWORK SUPPORT DETAIL NTS

NOTES:

1. SUPPORT SYSTEM SHALL NOT DAMAGE, CRIMP, OR INHIBIT DUCT FREE AREA IN ANY WAY.
2. FLEX DUCT MUST NOT EXCEED 6'-0" FROM CONNECTION TO TERMINATION.
3. MAXIMUM LENGTH BETWEEN SUPPORTS MUST NOT EXCEED 3'-0" O.C.
4. ATTACH BANDS OR WIRES TO SUPPORT STRUCTURE ABOVE.
5. FLEXIBLE DUCTWORK SHALL BE FLEXMASTER 8-M, THERMAFLEX MK-E OR AN APPROVED EQUAL.
6. FLEXIBLE DUCTWORK SHALL BE INSULATED WITH A MINIMUM R-VALUE OF 5.
7. 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.
8. TERMINAL DEVICES SHALL BE SUPPORTED INDEPENDENTLY OF THE FLEXIBLE DUCT.
9. REPAIR TORN OR DAMAGED VAPOR BARRIER/JACKET WITH DUCT TAPE LISTED AND LABELED TO UL 181B; IF INTERNAL CORE IS PENETRATED, REPLACE FLEXIBLE DUCT.
10. AVOID BENDING DUCT ACROSS SHARP CORNERS OR INCIDENTAL CONTACT WITH METAL FIXTURES, PIPES OR CONDUITS.
11. SHALL NOT BE INSTALLED WITHIN 4 INCHES OF HOT EQUIPMENT (FURNACES, BOILERS, STEAM PIPES, ETC.) THAT IS ABOVE 250° F.
12. SHALL NOT BE INSTALLED IN CONCRETE, BURIED BELOW GRADE OR IN CONTACT WITH THE GROUND.

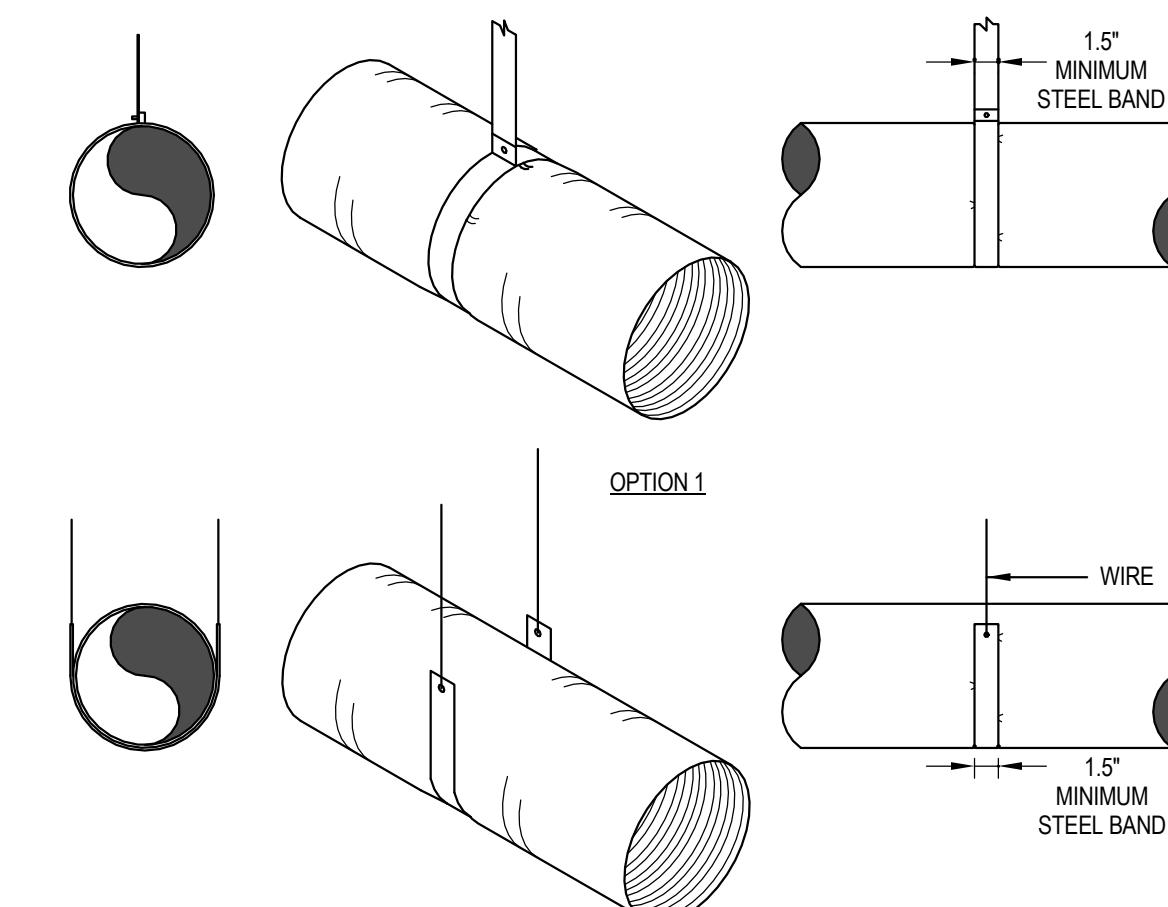
⑤ ROUND DUCT FITTING DETAIL NTS

NOTES:

⑥ RECTANGULAR DUCT FITTING DETAIL NTS

NOTES:

M301



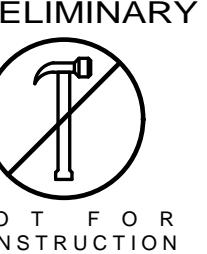
NOTES:

1. SUPPORT SYSTEM SHALL NOT DAMAGE, CRIMP, OR INHIBIT DUCT FREE AREA IN ANY WAY.
2. FLEX DUCT MUST NOT EXCEED 6'-0" FROM CONNECTION TO TERMINATION.
3. MAXIMUM LENGTH BETWEEN SUPPORTS MUST NOT EXCEED 3'-0" O.C.
4. ATTACH BANDS OR WIRES TO SUPPORT STRUCTURE ABOVE.
5. FLEXIBLE DUCTWORK SHALL BE FLEXMASTER 8-M, THERMAFLEX MK-E OR AN APPROVED EQUAL.
6. FLEXIBLE DUCTWORK SHALL BE INSULATED WITH A MINIMUM R-VALUE OF 5.
7. 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.
8. TERMINAL DEVICES SHALL BE SUPPORTED INDEPENDENTLY OF THE FLEXIBLE DUCT.
9. REPAIR TORN OR DAMAGED VAPOR BARRIER/JACKET WITH DUCT TAPE LISTED AND LABELED TO UL 181B; IF INTERNAL CORE IS PENETRATED, REPLACE FLEXIBLE DUCT.
10. AVOID BENDING DUCT ACROSS SHARP CORNERS OR INCIDENTAL CONTACT WITH METAL FIXTURES, PIPES OR CONDUITS.
11. SHALL NOT BE INSTALLED WITHIN 4 INCHES OF HOT EQUIPMENT (FURNACES, BOILERS, STEAM PIPES, ETC.) THAT IS ABOVE 250° F.
12. SHALL NOT BE INSTALLED IN CONCRETE, BURIED BELOW GRADE OR IN CONTACT WITH THE GROUND.

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TCA | 2311 Roosevelt Way NE
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STAMP:



CONSULTANT:
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Boise, Idaho 83709
208 334 0585
www.musgrovepa.com
OVER 30 YEARS OF EXCELLENCE
project number: 15-061



City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

PROJECT INFORMATION:
REVISIONS:
MARK DATE DESCRIPTION

PROJECT PHASE 75% CD'S
PROJECT NUMBER 15-27
PROJECT MANAGER J. Chatfield
PROJECT ARCHITECT J. Chatfield
DESIGN J. Chatfield
DRAWN BY LR

SHEET NAME:

HVAC DETAILS

NOTE:
ALL DUCTWORK TRANSITIONS SHALL BE CONSTRUCTED AND INSTALLED TO SMACNA, SPECIFICATIONS AND THE ABOVE NOTED STANDARDS. ANY DEVIATIONS SHALL BE COORDINATED WITH THE ENGINEER.

SHEET NUMBER:

M301
12.07.15

COLE ARCHITECTS

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

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Seattle, WA 98115 | (206) 522-3820

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PRELIMINARY

NOT FOR CONSTRUCTION
01-29-16

CONSULTANT:

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REVISIONS:

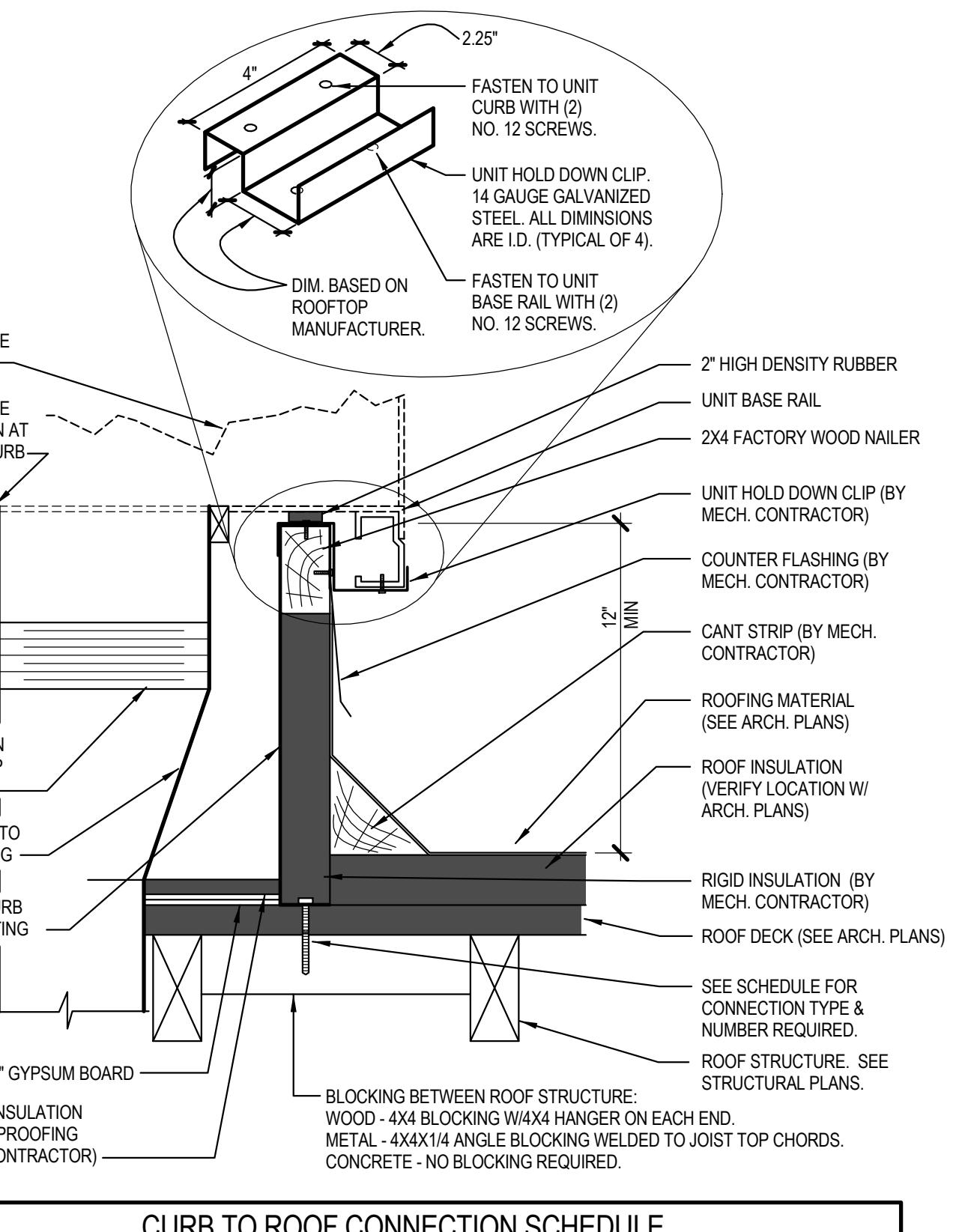
MARK	DATE	DESCRIPTION

PROJECT PHASE 75% CD'S

PROJECT PHASE	75% CD'S
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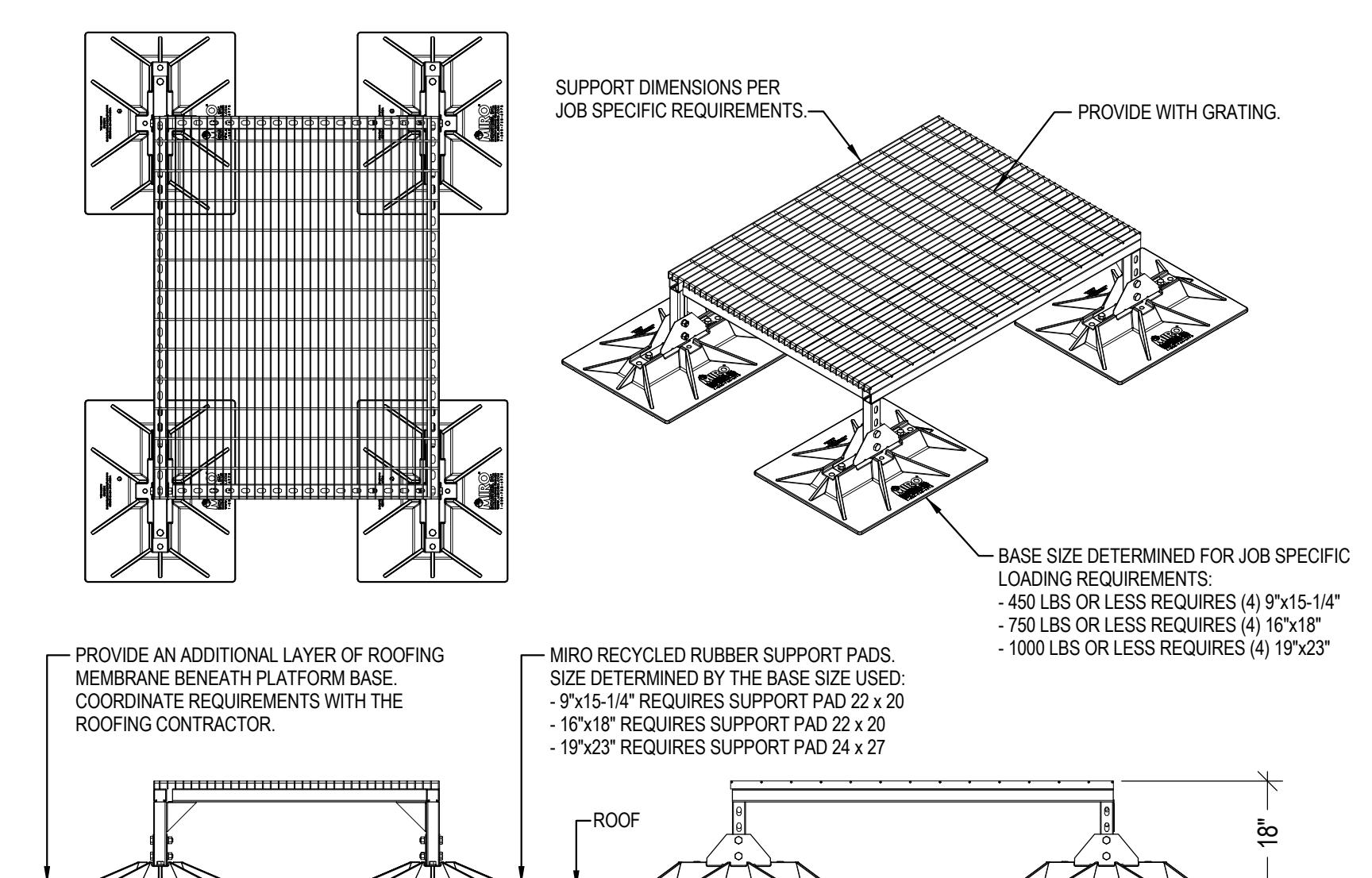
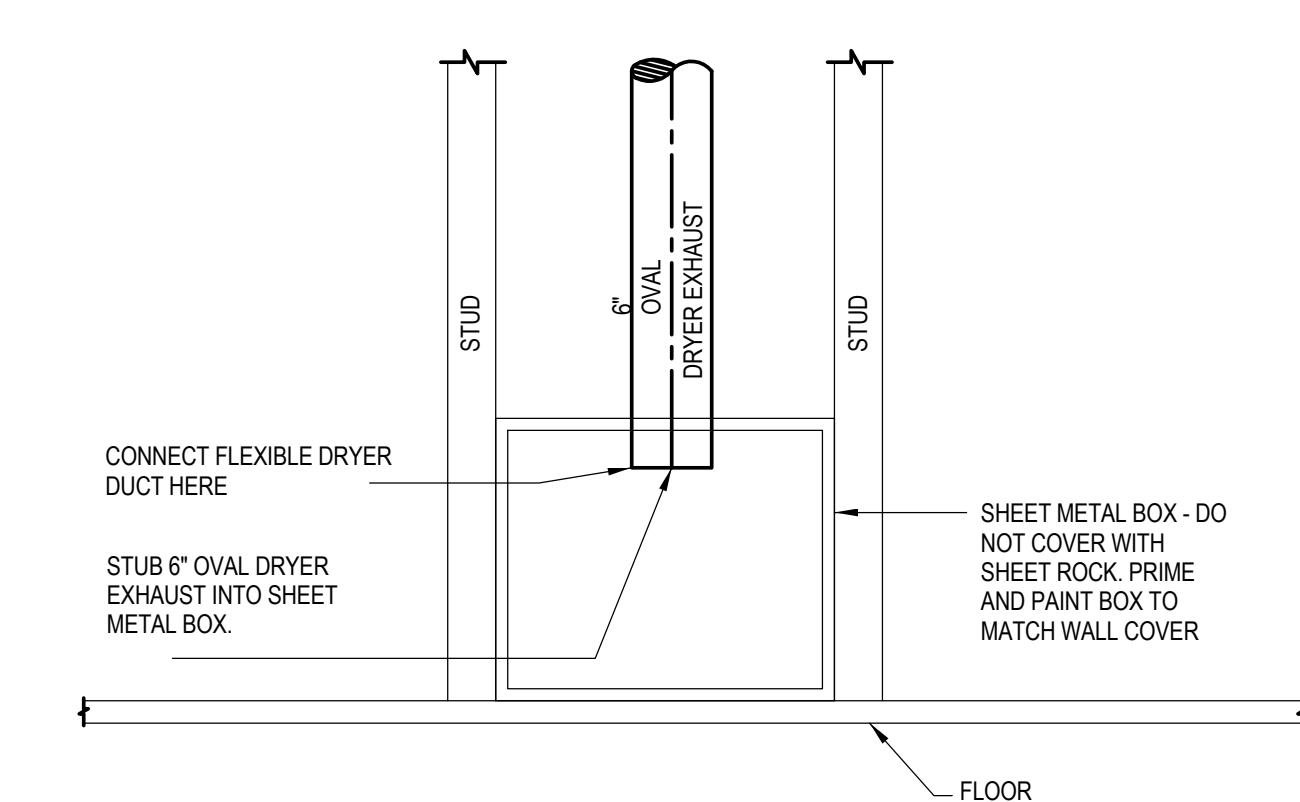
SHEET NAME:

HVAC DETAILS



CURB TO ROOF CONNECTION SCHEDULE					
NOMINAL SIZE	MAX. WEIGHTS	NO. & TYPE OF CONNECTION (EQUALLY SPACED)			
		ROOF STRUCTURE TYPE	METAL	WOOD	CONCRETE
$\geq 6000 \text{ CFM}$	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(5) ROOFTOP CONDENSING UNIT PLATFORM DETAIL
NTS(6) DRYER EXHAUST DETAIL
NTS

SHEET NUMBER:

12.07.15

M302

DIFFUSER SCHEDULE				
SYMBOL	NOMINAL SIZE	NECK / RUNOUT SIZE	CFM RANGE	REMARKS
D-1 CFM 6'0"	6X6	6'0"	0-90	1, 2, 3, 4, 5, 6, 7
D-2 CFM 8'0"	9X9	8'0"	90-200	1, 2, 3, 4, 5, 6, 7
D-3 CFM 10'0"	12X12	10'0"	200-350	1, 2, 3, 4, 5, 6, 7
D-4 CFM 12'0"	15X15	12'0"	300-500	1, 2, 3, 4, 5, 6, 7
D-5 CFM 14'0"	15X15	14'0"	400-650	1, 2, 3, 4, 5, 6, 7
D-6 CFM 16'0"	18X18	16'0"	600-900	1, 2, 3, 4, 5, 6, 7
D-7 CFM 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 6'0"	8X8	6'0"	0-80	1, 2, 3, 4, 5, 6
R-2 8'0"	10X10	8'0"	80-180	1, 2, 3, 4, 5, 6
R-3 10'0"	12X12	10'0"	180-300	1, 2, 3, 4, 5, 6
R-4 6'0"	22X10	6'0"	0-80	1, 2, 3, 4, 5, 6
R-5 6'0"	22X10	8'0"	80-180	1, 2, 3, 4, 5, 6
R-6 10'0"	22X10	10'0"	180-300	1, 2, 3, 4, 5, 6
R-7 12'0"	22X22	12'0"	300-500	1, 2, 3, 4, 5, 6
R-8 14'0"	22X22	14'0"	500-750	1, 2, 3, 4, 5, 6
R-9 22X10	22X10	500-1100	1, 2, 3, 4, 5, 6	
R-10 22X22	22X22	1100-2000	1, 2, 3, 4, 5, 6	
R-11 10X6	10X6	0-180	2, 7, 8	
R-12 14X6	14X6	180-250	2, 7, 8	

REMARKS:

1. SIZES BASED ON TITUS MODEL 50F, ALUMINUM EGGRATE RETURN GRILLE, 12" x 12" 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 355 RL, STEEL BAR GRILLE, FIXED BLADES, 1/2" SPACING, 38° 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 EWB		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	18.0	HEAT RECOVERY	203.0	201.9	228.4	43	50	208/3	703	DAIKIN MODEL REYQ216TTJU	1, 2, 4, 6				
				38		208/3	25	35		703						
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					
BSB-2		FC-1	CAPT. OFFICE 133	0.6	HIGH WALL	260	6.3	8.7	0.3	15.0	208/1	25	35	26	DAIKIN MODEL FXAQ07PVJU	1, 3, 5, 6
		FC-2	FF WORK AREA 132	1.5	HIGH WALL	500	15.2	21.0	0.4	15.0	208/1	100	43	31	DAIKIN MODEL FXAQ18PVJU	1, 3, 5, 6
		FC-3	LOBBY/AID 100	0.75	HIGH WALL	280	8.0	11.1	0.3	15.0	208/1	50	37	26	DAIKIN MODEL FXAQ09PVJU	1, 3, 5, 6
		FC-4	B.C. OFFICE 102	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	B.C. DORM 103	0.6	HIGH WALL	260	6.3	8.7	0.3	15.0	208/1	25	35	26	DAIKIN MODEL FXAQ07PVJU	1, 3, 5, 6
		FC-6	CAPT. DORM 105	0.6	HIGH WALL	260	6.3	8.7	0.3	15.0	208/1	25	35	26	DAIKIN MODEL FXAQ07PVJU	1, 3, 5, 6
		FC-7	CAPT. DORM 107	0.6	HIGH WALL	260	6.3	8.7	0.3	15.0	208/1	25	35	26	DAIKIN MODEL FXAQ07PVJU	1, 3, 5, 6
BSB-3		FC-17	HALL 101 (NORTH)	0.6	DUCTED	280	6.3	8.7	0.9	15.0	208/1	100	33	49	DAIKIN MODEL FXDQ07MVJU	1, 3, 5, 6
		FC-8	DORM 110	0.6	HIGH WALL	260	6.3	8.7	0.3	15.0	208/1	25	35	26	DAIKIN MODEL FXAQ07PVJU	1, 3, 5, 6
		FC-9	DORM 111	0.6	HIGH WALL	260	6.3	8.7	0.3	15.0	208/1	25	35	26	DAIKIN MODEL FXAQ07PVJU	1, 3, 5, 6
		FC-10	DORM 112	0.6	HIGH WALL	260	6.3	8.7	0.3	15.0	208/1	25	35	26	DAIKIN MODEL FXAQ07PVJU	1, 3, 5, 6
		FC-11	DORM 113	0.6	HIGH WALL	260	6.3	8.7	0.3	15.0	208/1	25	35	26	DAIKIN MODEL FXAQ07PVJU	1, 3, 5, 6
		FC-12	STORAGE 114	0.6	HIGH WALL	260	6.3	8.7	0.3	15.0	208/1	25	35	26	DAIKIN MODEL FXAQ07PVJU	1, 3, 5, 6
		FC-13	DORM 115	0.6	HIGH WALL	260	6.3	8.7	0.3	15.0	208/1	25	35	26	DAIKIN MODEL FXAQ07PVJU	1, 3, 5, 6
BSB-1		FC-14	DORM 116	0.6	HIGH WALL	260	6.3	8.7	0.3	15.0	208/1	25	35	26	DAIKIN MODEL FXAQ07PVJU	1, 3, 5, 6
		FC-15	DORM 117	0.6	HIGH WALL	260	6.3	8.7	0.3	15.0	208/1	25	35	26	DAIKIN MODEL FXAQ07PVJU	1, 3, 5, 6
	</td															

SUPPLY GRILLE SCHEDULE				
SYMBOL	NOMINAL SIZE	NECK / RUNOUT SIZE	CFM RANGE	REMARKS
G1 CFM SIZE	16X6	16X6	200 - 350	1, 2, 3, 4
G2 CFM SIZE	10X6	10X6	0 - 250	2, 3, 4, 5
G3 CFM 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/Ø	INDOOR DB (°F)	OUTDOOR DB (°F)	OUTDOOR WB (°F)	SUPPLY AIR DB (@3.9' HD) (°F)	GPM	W	V/Ø			
EC-1	APPARATUS BAY	DOWNFLOW	57.4	4600	.30"	750 W	1450	120/1	80	95	62	66.3	4.6	30	120/1	200	BREEZAIR MODEL EXV 275	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/Ø	AMPS			
EH-1	DECON 137	SURFACE CEILING MOUNTED	300	N/A	1/8	2.0	1	208/1	9.6	QMARK CDF		1, 4
EH-2	MAINTENANCE / SHOP 138	SURFACE CEILING MOUNTED	300	N/A	1/8	2.0	1	208/1	9.6	QMARK CDF		1, 4
EH-3	FIRE RISER 139	RECESSED WALL MOUNTED	100	N/A	N/A	1.5	1	208/1	7.2	QMARK AWH		1, 2, 3
EH-4	SCBA FILL STATION 140	SURFACE CEILING MOUNTED	300	N/A	1/8	2.0	1	208/1	9.6	QMARK CDF		1, 4
EH-5	STORAGE 141	SURFACE 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/Ø				
RH-1	APPARATUS BAY	TUBE	50	---	9	76	24	5.5	120/1	100.0	180	MODINE TLP100H34	1, 2, 3
RH-2	APPARATUS BAY	TUBE	50	---	9	76	24	5.5	120/1	100.0	180	MODINE TLP100H34	1, 2, 3
RH-3	APPARATUS BAY	TUBE	50	---	9	76	24	5.5	120/1	100.0	180	MODINE TLP100H34	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 135	GRAVITY RELIEF VENTILATOR	7	36X72	18.0	MILL	COOK MODEL TRE			1, 2

REMARKS:

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

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 208 334 0585
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City of Boise Fire Station 4
 8485 W Ustick Rd, Boise, ID 83704

PROJECT INFORMATION:

BOISE CITY OF TREES

BOISE FIRE DEPARTMENT
 EST. 1876
 DEDICATION

REVISIONS:

MARK	DATE	DESCRIPTION
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PROJECT PHASE: 75% CD'S

PROJECT NUMBER: 15-27

PROJECT MANAGER: J. Chatfield

PROJECT ARCHITECT: J. Chatfield

DESIGN: J. Chatfield

DRAWN BY: LR

SHEET NAME:

HVAC SCHEDULES

M402

SHEET NUMBER:

12.07.15

SYMBOL	AREA SERVED	UNIT TYPE	DUCT SIZE		CFM RANGE			MINIMUM AIRFLOW (CFM)	MAXIMUM AIRFLOW (CFM)	MANUFACTURER AND MODEL	REMARKS
			WIDTH	HEIGHT	KW	V/IØ	STEPS				
DH-1	TURN OUT RM 136	FLANGED OPEN COIL	16"	14"	20	208/3	SCR	825	825	QMARK MODEL FC SERIES	1, 2, 3

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: MARKEL, REDDI, VALLEY INDUSTRIES, INDEECO, AND BRASCH.
2. 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.
3. CONTROL WITH DDC SYSTEM WITH TIMER.

EXHAUST FAN SCHEDULE												
SYMBOL	AREA SERVED	UNIT TYPE	BLOWER			ELECTRICAL			MAXIMUM SONES	OPERATING WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
			CFM	ESP	MAXIMUM RPM	DRIVE	HP/W	V/IØ				
EF-1	DECON 137	CEILING CABINET	100	25"	1075	DIRECT	33 W	120/I	2.5	15	COOK MODEL GC-148	1, 2, 3
EF-2	ELEC RM 126	CEILING CABINET	100	25"	1075	DIRECT	33 W	120/I	2.5	15	COOK MODEL GC-148	1, 2, 4
EF-3	VEHICLE EXHAUST	RADIAL BLADE, HIGH PRESSURE	560	4.0"	3450	DIRECT	1 HP	120/I	--	50	GRAINGER PACKAGE NO. 7C447 (DAYTON)	5
EF-4	VEHICLE EXHAUST	RADIAL BLADE, HIGH PRESSURE	560	4.0"	3450	DIRECT	1 HP	120/I	--	50	GRAINGER PACKAGE NO. 7C447 (DAYTON)	5
EF-5	VEHICLE EXHAUST	RADIAL BLADE, HIGH PRESSURE	560	4.0"	3450	DIRECT	1 HP	120/I	--	50	GRAINGER PACKAGE NO. 7C447 (DAYTON)	5

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: GREENHECK, TWIN CITY FAN COMPANY, AND SOLER & PALAU.
2. 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.
3. CONTROL FAN WITH SEPARATE WALL SWITCH.
4. CONTROL FAN WITH HEAT RISE THERMOSTAT.
5. CONTROL FAN WITH VEHICLE EXHAUST CONTROL PANEL.

LARGE DIAMETER CEILING FAN SCHEDULE												
SYMBOL	AREA SERVED	BLOWER			ELECTRICAL			OPERATING WEIGHT (LBS)	MANUFACTURER AND MODEL			REMARKS
		FAN DIAMETER	CFM	MAX RPM	HP/W	V/IØ	MATERIAL	Type	Size			
CF-1	APPARATUS 135	12'	N/A	111	1 HP	208/3	150	BIG ASS FAN COMPANY MODEL POWERFOIL 8				1, 2

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: MACROAIR.
2. 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.

ENERGY RECOVERY UNIT SCHEDULE																						
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/IØ									
ERU-1	1550	1.0"	1.0	1350	1.0"	1.0	9	6	68	--	94	63	--	80	--	14.0	20	208/3	--	600	COOK MODEL ERV 1500	1, 2, 3, 4
ERU-2	825	1.0"	.5	825	1.0"	.5	9	6	68	--	94	63	--	80	--	8.2	15	208/3	--	600	COOK MODEL ERV 1500	1, 2, 3, 4

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: AAON, GREENHECK (MODEL ERV), XETEX, PENNBARRY, CARNES, AND NUTECH LIFE BREATH.
2. 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.
3. CONTROL WITH DDC.
4. CONNECT UNIT TO DDC CONTROL SYSTEM AND SEQUENCE AS OUTLINED ON CONTROL DRAWINGS.

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	MAX S.P. LOSS			
RH-1	KITCHEN/DINING 202	RESIDENTIAL RANGE HOOD	2'-6"	20-1/8"	150 / 630	3-1/4" X 14"	-0.10"	N/A	N/A	N/A	BROAN MODEL QP430SS	1, 2, 3	

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: GE, JENNAR, AND KENMORE.
2. ELECTRICAL SPECIFICATIONS - 120V/1 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.
3. PROVIDED BY OTHERS, INSTALLED BY CONTRACTOR.

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208 334 0585
www.musgrovepa.com
OVER 30 YEARS OF EXCELLENCE
project number: 15-061

PROJECT INFORMATION:

		
City of Boise Fire Station 4 8485 W Ustick Rd, Boise, ID 83704		
REVISIONS:		
MARK	DATE	DESCRIPTION
PROJECT PHASE		
75% CD'S		
PROJECT NUMBER	15-27	
PROJECT MANAGER	J. Chatfield	
PROJECT ARCHITECT	J. Chatfield	
DESIGN	J. Chatfield	
DRAWN BY	LR	
SHEET NAME:		
HVAC SCHEDULES		
SHEET NUMBER:		
M403		

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SHEET NAME:

FOUNDATION PLUMBING PLAN

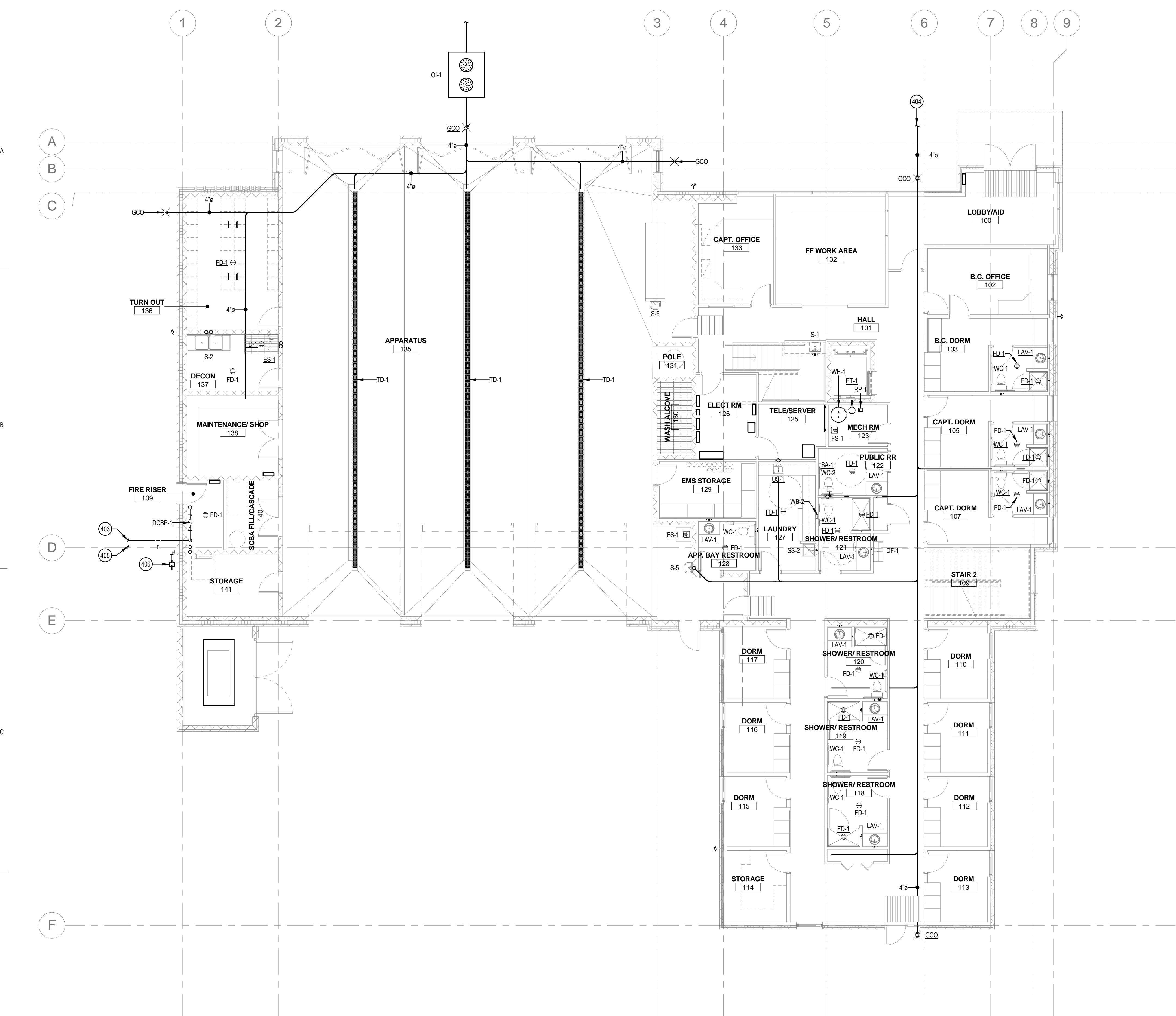
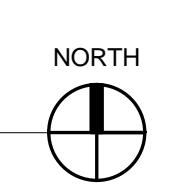
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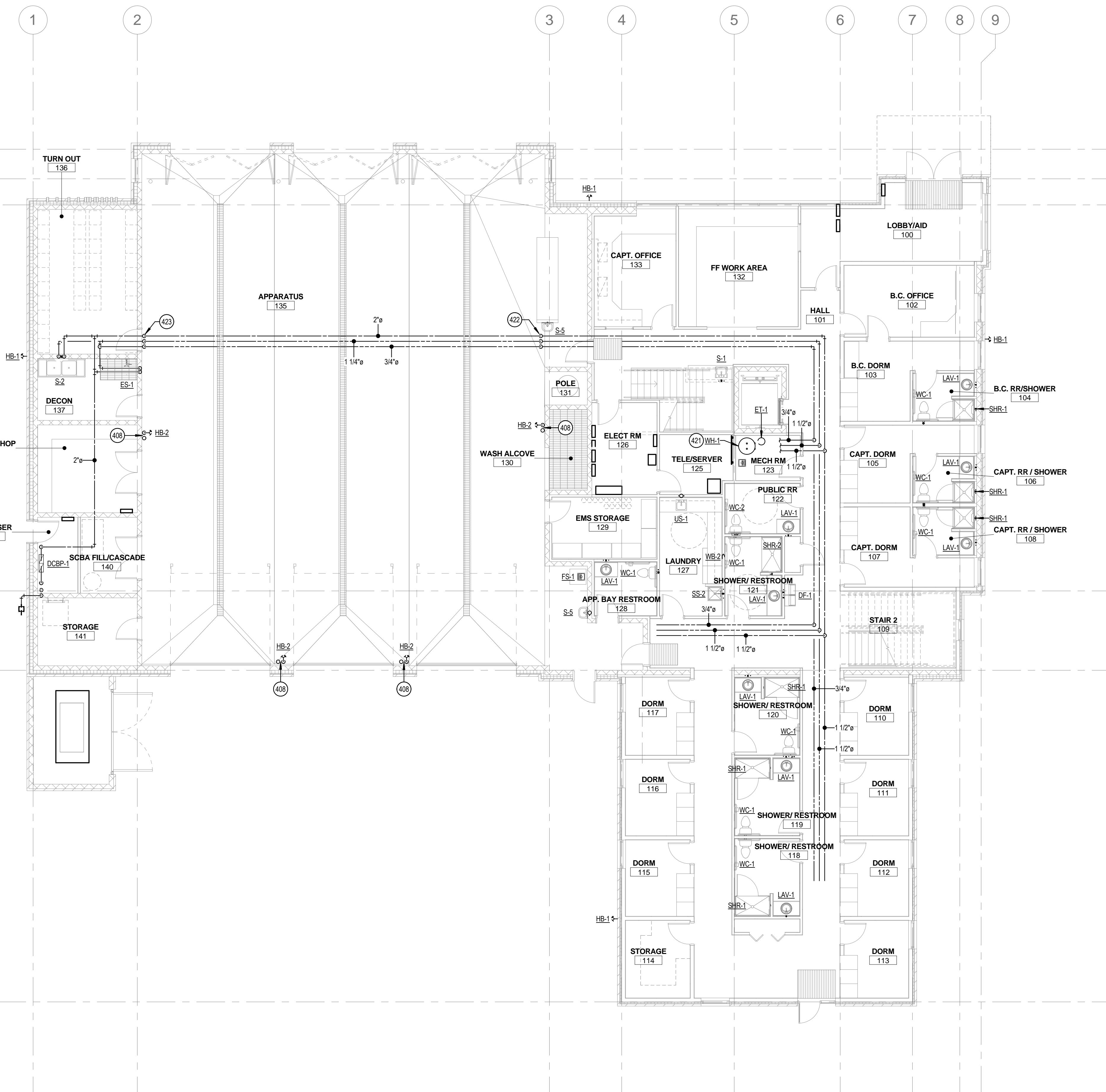
P101

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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 X: 2 PSI GAS LINE SERVING BUILDING. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH INTERMOUNTAIN GAS COMPANY. TOTAL GAS LOAD = XXX MBH @ 2 PSI. REFER TO GAS SIZING CHART ON SHEET PXX FOR BREAKDOWN OF EQUIPMENT.

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



KEYED NOTES

408
421
422
423

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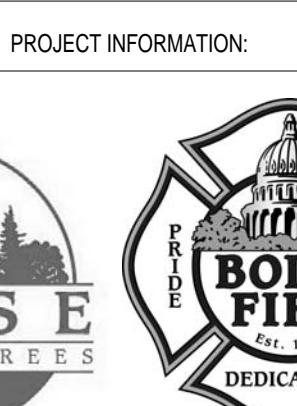


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City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE 75% CD'S

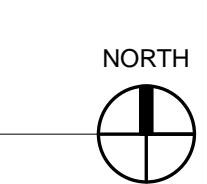
PROJECT PHASE	75% CD'S
PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	LR

SHEET NAME:

1ST FLOOR
PLUMBING PLAN

SHEET NUMBER:

P201



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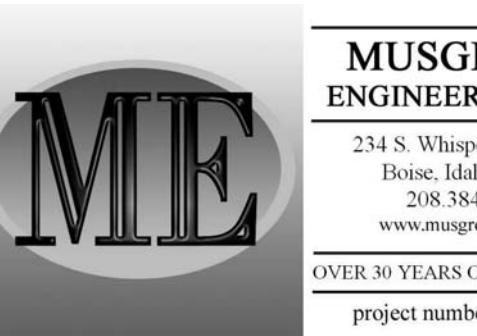
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City of Boise Fire Station 4
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C REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE: 75% CD'S

PROJECT PHASE	75% CD'S
PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	LR

SHEET NAME:

2ND FLOOR PLUMBING PLAN

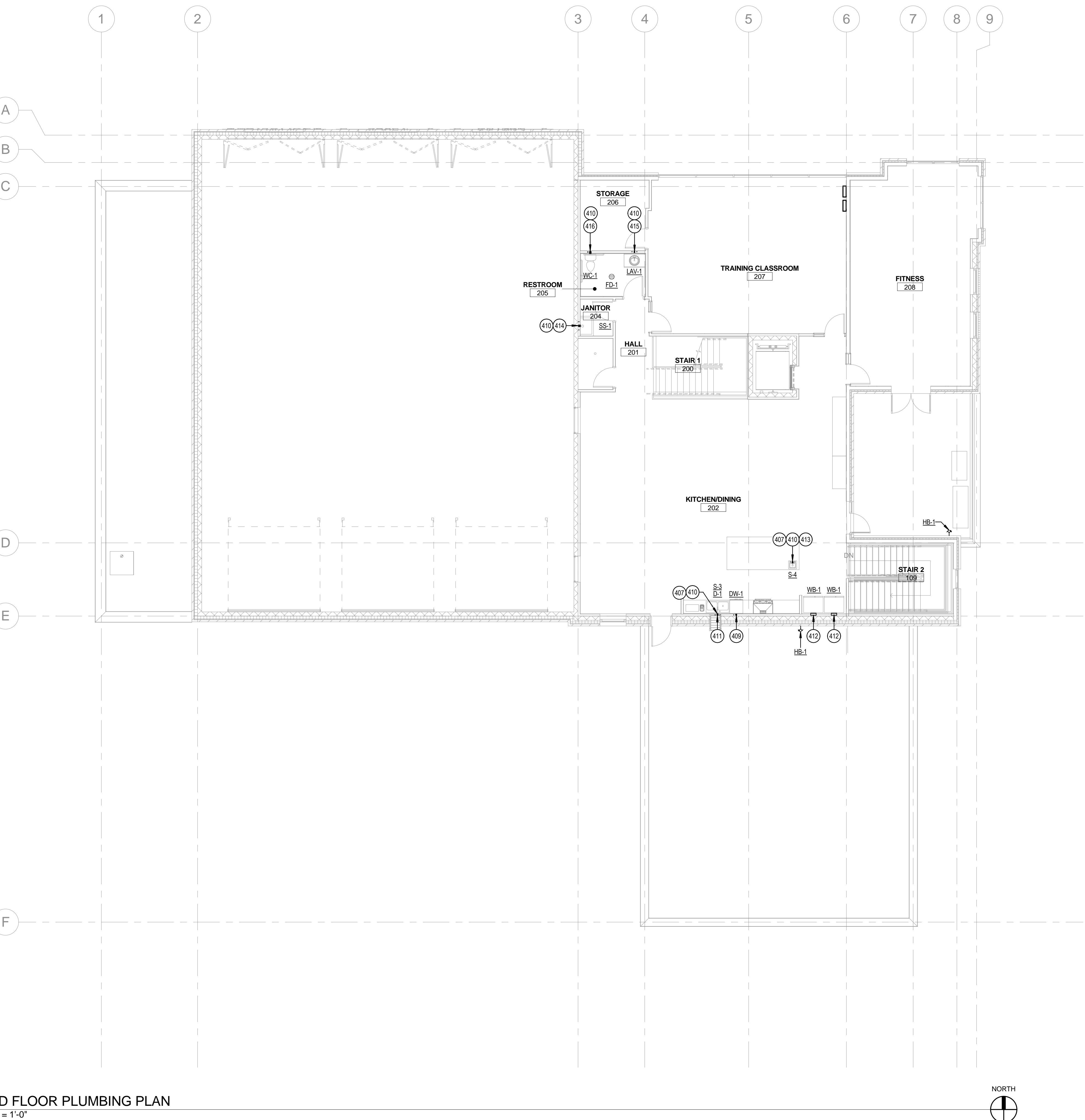
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P202

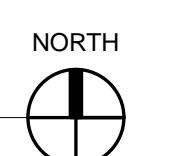
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KEYED NOTES

- 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 1/2" 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.
 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 LAVATORY LAV-1.
 416 1/2" CW UP FROM BELOW TO SERVE WATER CLOSET WC-1.



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



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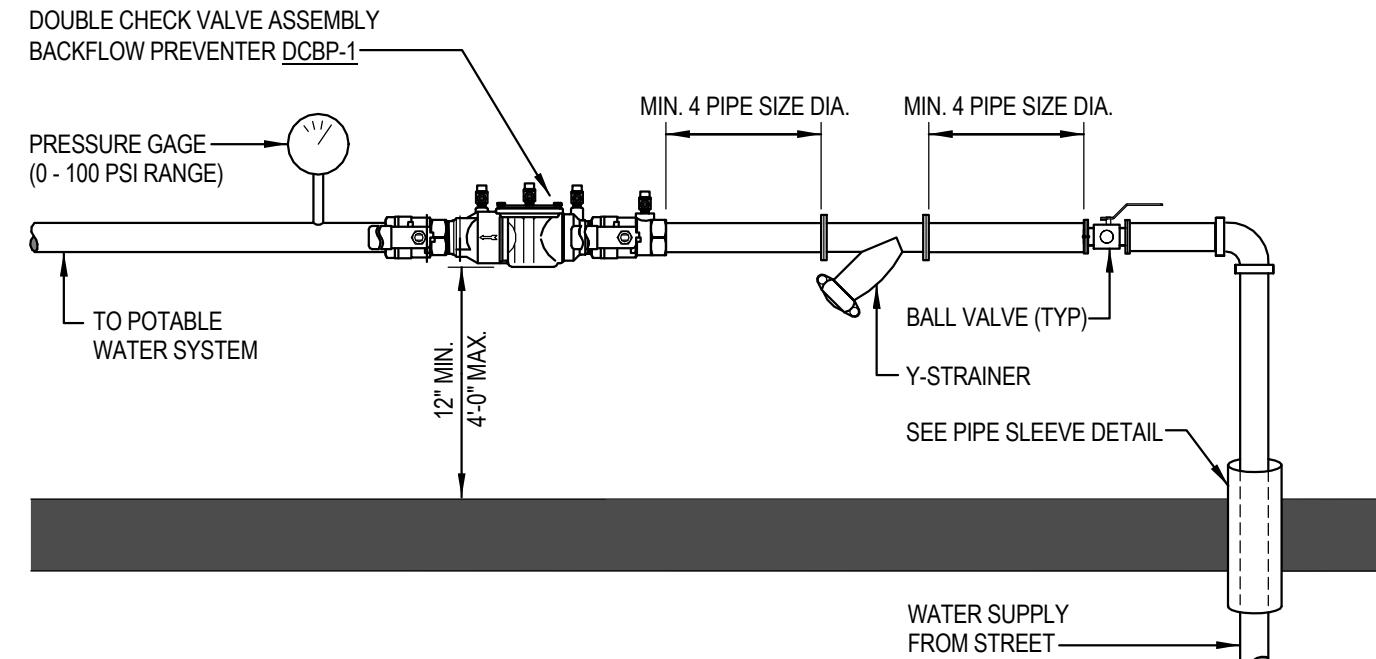
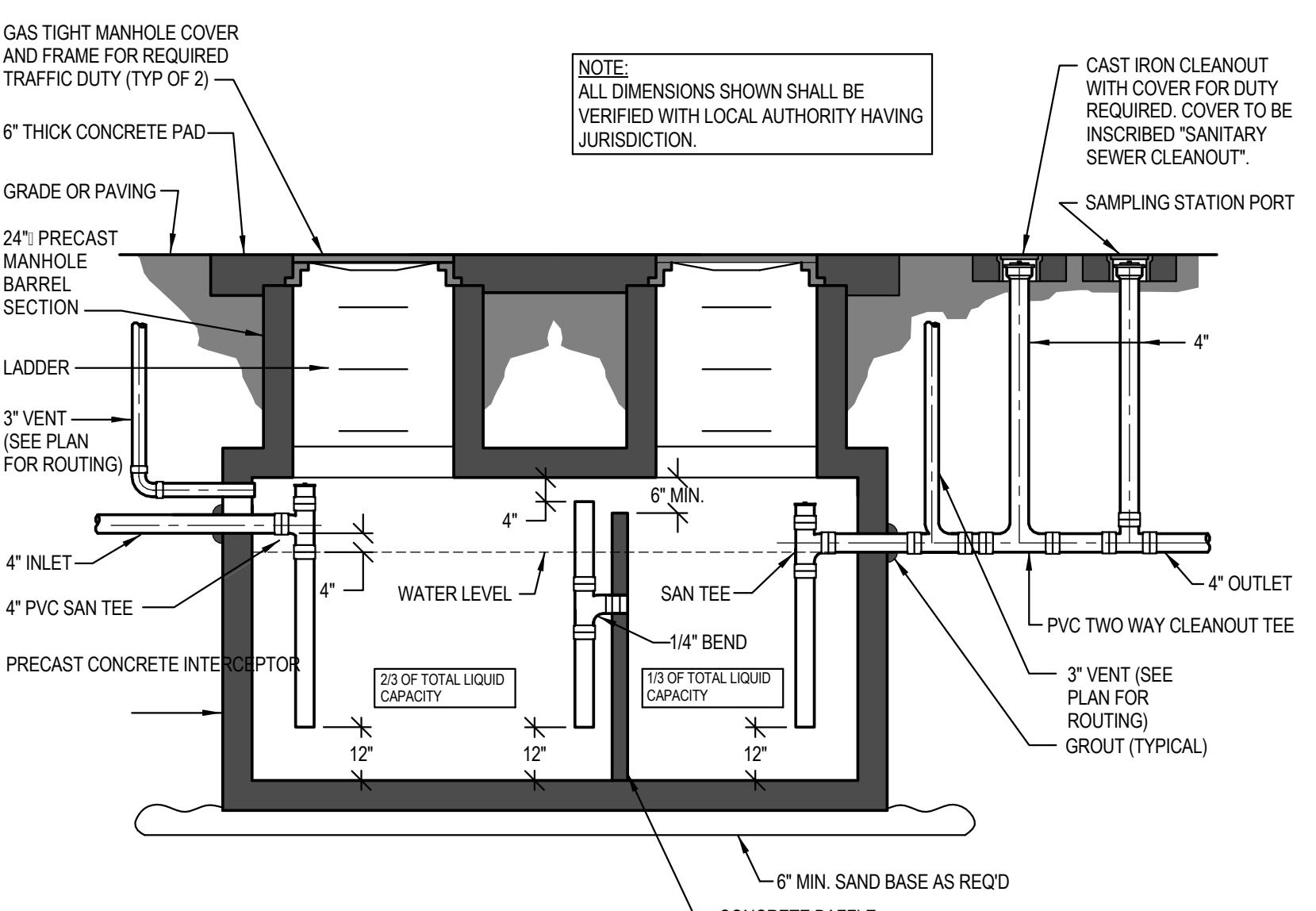
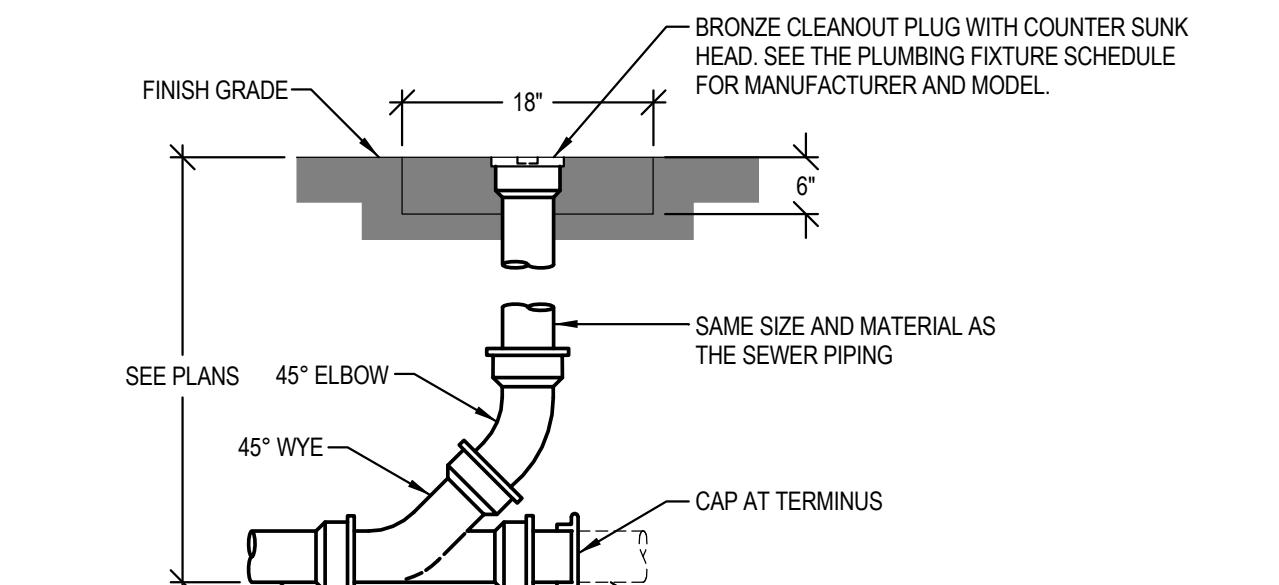
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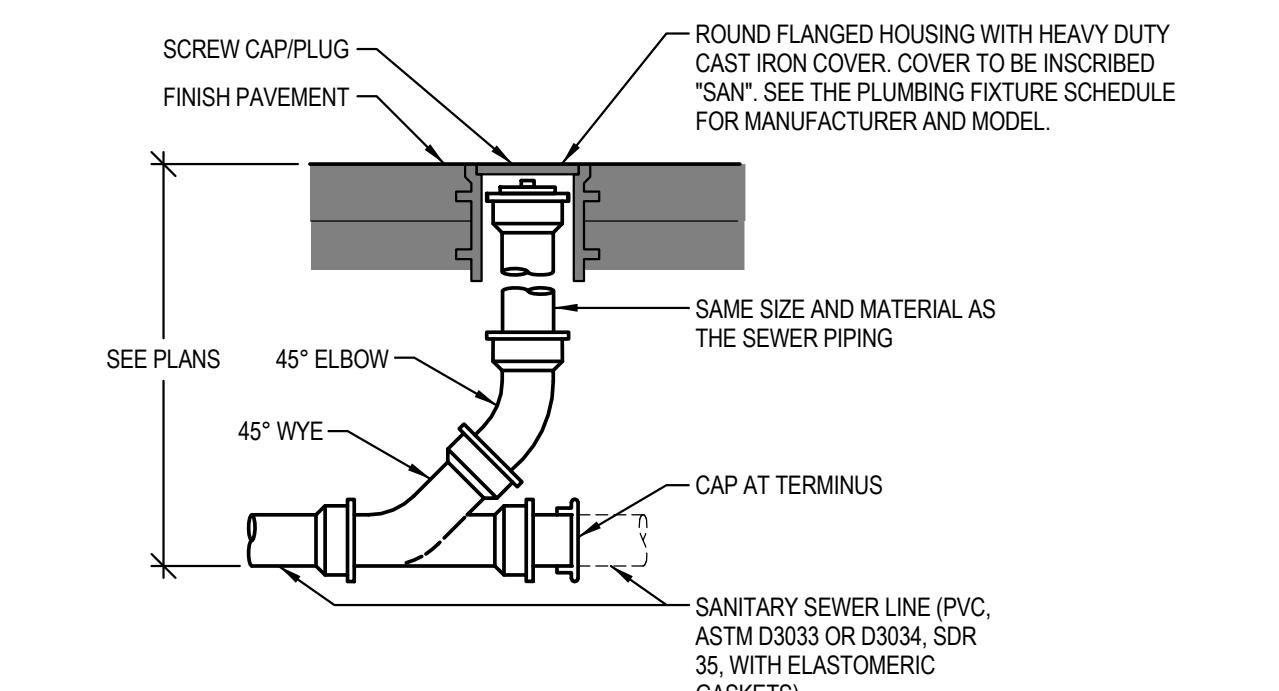
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- NOTE:**
- THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL BACKFLOW DEVICES TO BE INSPECTED BY A CERTIFIED BACKFLOW TECHNICIAN BEFORE THE USE OF THE BUILDING POTABLE WATER SYSTEM.
 - THIS BACKFLOW PREVENTER CAN BE INSTALLED IN A VERTICAL CONFIGURATION WHEN SPACE IN ROOM IS LIMITED. REFERENCE PLANS FOR CONFIGURATION OR CONTACT THE ENGINEER FOR APPROVAL.
 - THIS SYSTEM IS FOR INDOOR INSTALLATIONS ONLY. THIS VALVE SHALL BE EASILY ACCESSIBLE TO FACILITATE TESTING AND SERVICING. DO NOT INSTALL IN A CONCEALED LOCATION.

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

PEDESTRIAN TRAFFIC AREAS / NON-PAVED AREAS

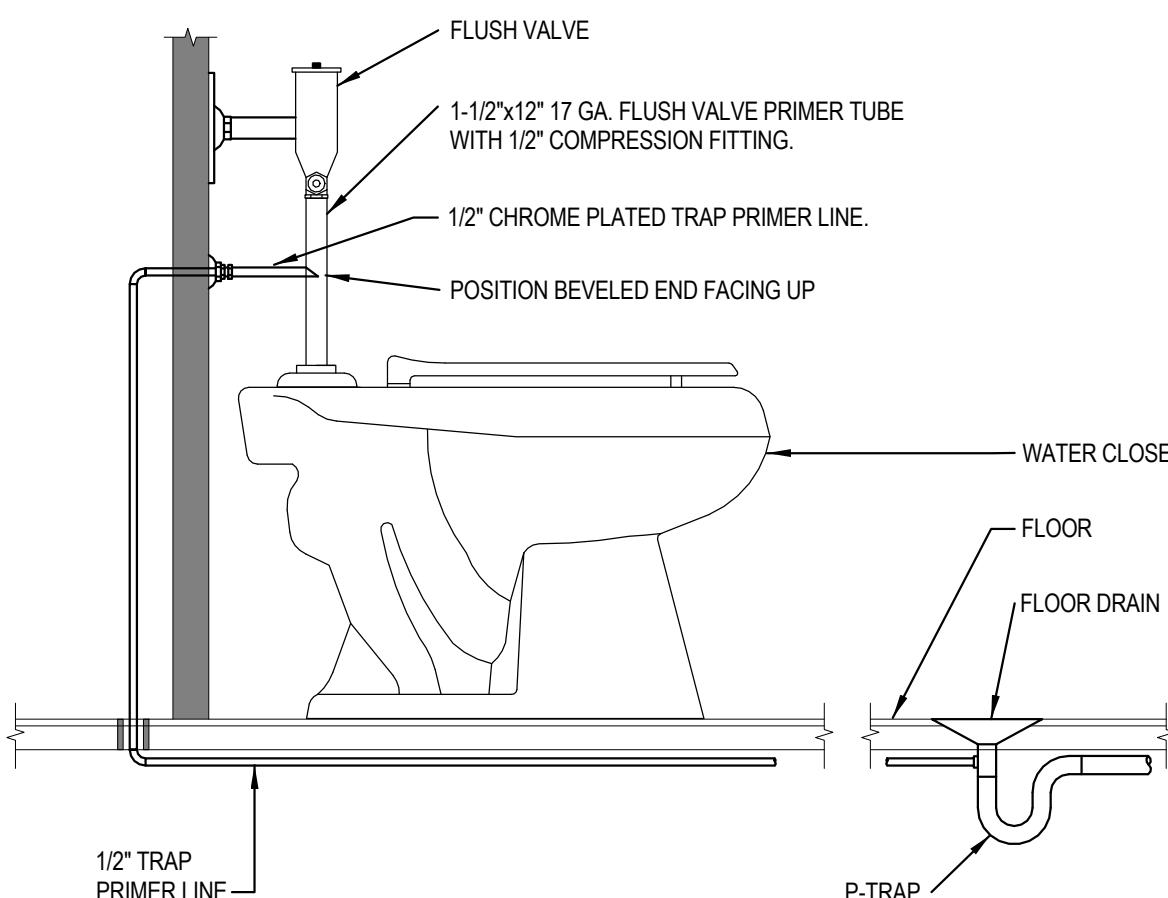


VEHICULAR TRAFFIC AREAS / PAVED AREAS

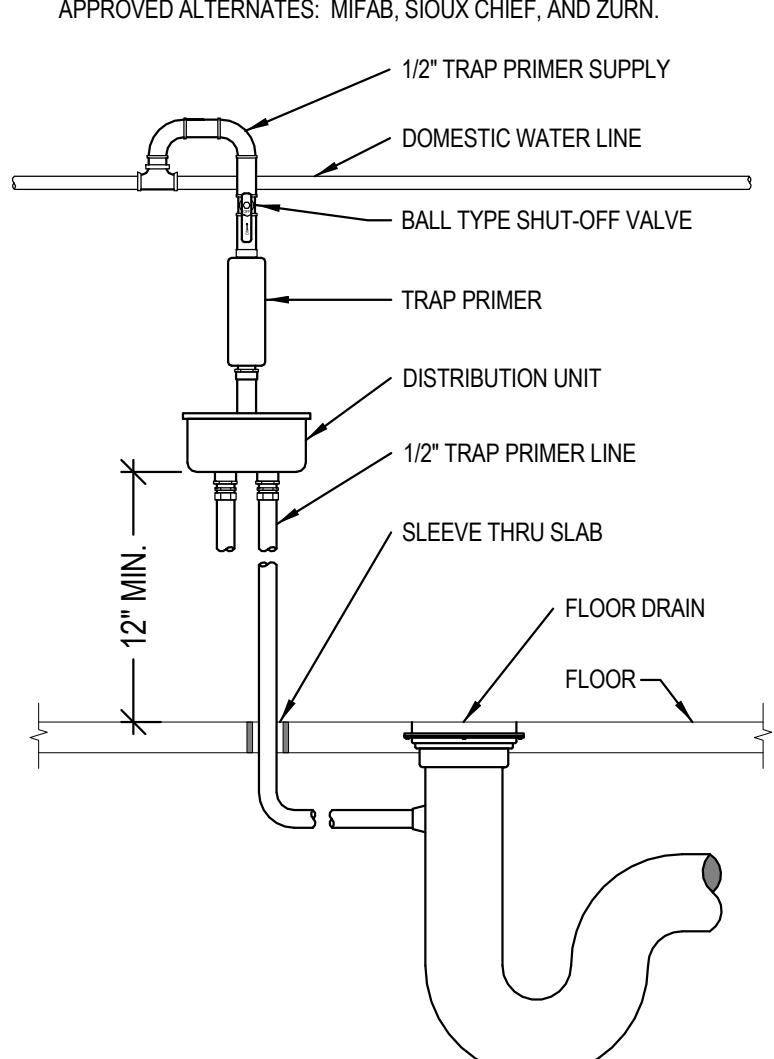
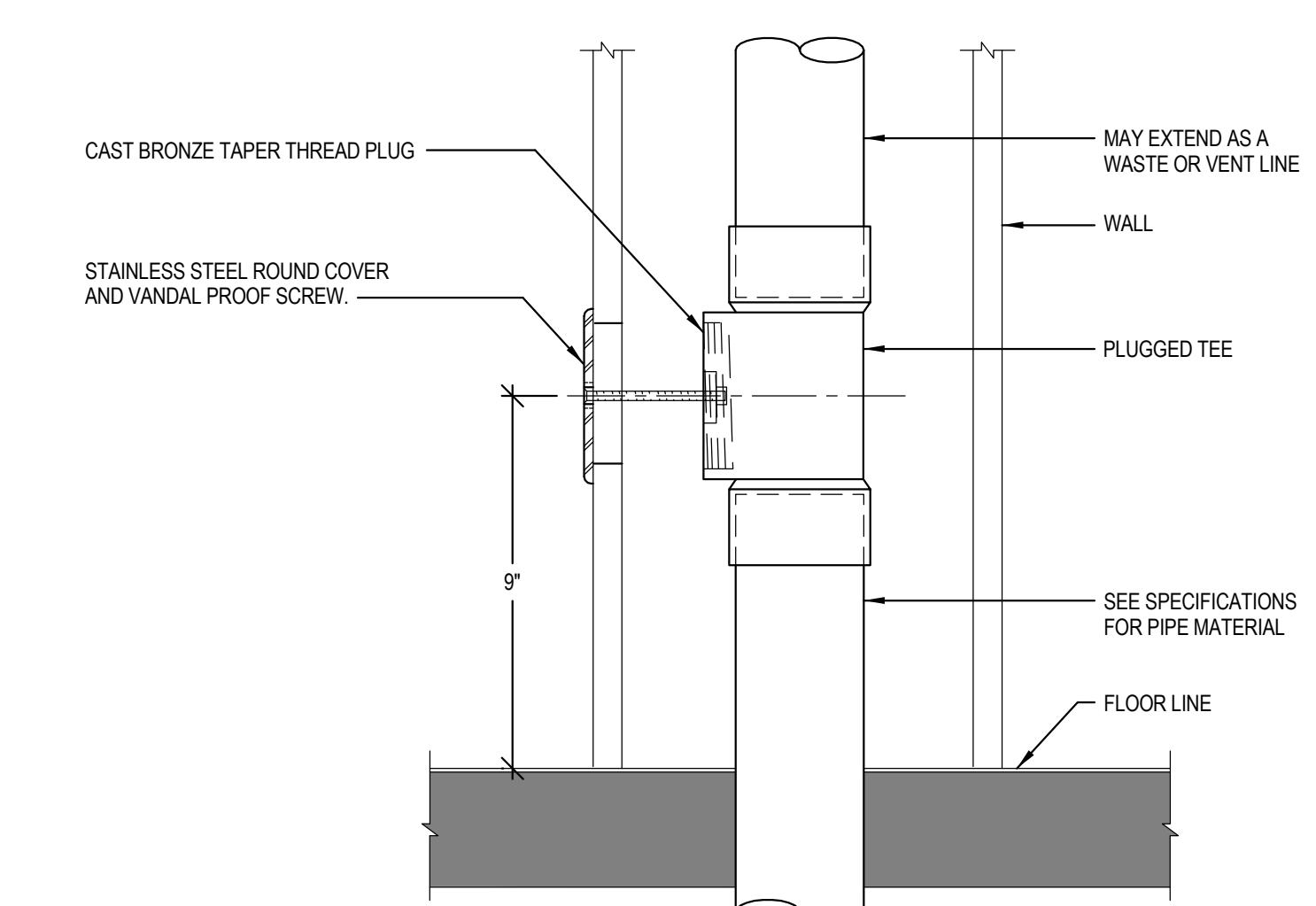
(3) GRADE CLEANOUT (GCO) DETAIL
NTS

B

- FLUSH VALVE PRIMER NOTES:**
- THE FLUSH VALVE PRIMER IS DESIGNED TO PRIME ONE FLOOR DRAIN TRAP AT A DISTANCE NOT TO EXCEED 20 FEET FROM POINT OF INSTALLATION.
 - THE FLUSH VALVE PRIMER SHALL BE INSTALLED WITH A VACUUM BREAKER.
 - FLUSH VALVE PRIMER IS INTENDED FOR USE WITH WATER CLOSETS CONSUMING 3.5 TO 1.0 GAL/FLUSH.
 - TRAP PRIMER SHALL BE PRECISION PLUMBING PRODUCTS MODEL FVP-1VB WITH VACUUM BREAKER.
- APPROVED ALTERNATES: MIFAB, SIOUX CHIEF, AND ZURN.

(4) TRAP PRIMER CONNECTION DETAIL
NTS

- PRESSURE ACTIVATED PRIMER NOTES:**
- THE PRIMING VALVE MUST BE INSTALLED ON A FRESH COLD WATER LINE OF 1/2" TO 1-1/2" DIAMETER.
 - DISTRIBUTION UNIT MUST BE INSTALLED LEVEL WITH AN ACCESS DOOR FOR PERIODIC INSPECTION.
 - DO NOT SUBJECT TRAP PRIMER VALVE TO ROUGH-IN PRESSURE TEST.
 - DISTANCE FROM DISTRIBUTION UNIT TO FLOOR MUST BE 12" FOR EVERY 20' HORIZONTALLY.
 - TRAP PRIMER SHALL BE PRECISION PLUMBING PRODUCTS MODEL CPO-500 WITH DU DISTRIBUTION UNIT IF REQUIRED.
- APPROVED ALTERNATES: MIFAB, SIOUX CHIEF, AND ZURN.

(5) WALL CLEANOUT (WCO) DETAIL
NTS

NOTE:
CLEANOUTS SHALL BE PROVIDED AT EACH HORIZONTAL DRAINAGE PIPE AT ITS UPPER TERMINAL AND EACH RUN OF PIPING WHICH IS MORE THAN 100 FEET, AND SHALL BE PROVIDED FOR EACH 100 FEET DEVELOPED LENGTH, OR FRACTION THEREOF, OF SUCH PIPING. AN ADDITIONAL CLEANOUT SHALL BE PROVIDED FOR EACH AGGREGATE HORIZONTAL CHANGE OF DIRECTION EXCEEDING ONE HUNDRED THIRTY-FIVE DEGREES, PER APPLICABLE PLUMBING CODE. THIS SHALL BE PROVIDED REGARDLESS OF WHAT IS SHOWN ON THE DRAWINGS.

(6) FLOOR CLEANOUT (FCO) DETAIL
12" = 1'-0"

C

D

5

4

3

2

1

12.07.15

P301

City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

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

PROJECT PHASE	75% CD'S
PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	LR
SHEET NAME:	

PLUMBING DETAILS

SHEET NUMBER:

12.07.15

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project number: 15-061

PROJECT INFORMATION:



City of Boise Fire Station 4

8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

SHEET NAME:

PLUMBING SCHEDULES

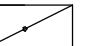
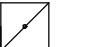
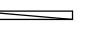
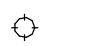
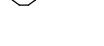
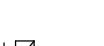
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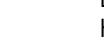
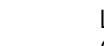
PLUMBING FIXTURE SCHEDULE									
SYMBOL	Fixture Description	Connection Size					Manufacturer / Model Number / Description / Additional Comments		
		Waste	Vent	Trap	CW	HW			
D-1	DISPOSER	2	1 1/2	1 1/2	-	-	PROVIDED BY OTHERS, INSTALLED BY CONTRACTOR.		
DCBP-1	DOUBLE CHECK BACKFLOW PREVENTER	--	--	--	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) (HIGH/LLOW)	1 1/2	1 1/2	1 1/2	1/2	-	ELKAY MODEL LZSTL8WSLK HIGH/LLOW COOLER WITH BOTTLE FILLING STATION WITH FLEXI-GUARD STREAMSAVER BUBBLER, OPERATED BY FRONT OR SIDE PUSH BARS AND BOTTLE FILLING STATION OPERATED BY SENSOR ACTIVATION WITH AUTOMATIC 30-SECOND SHUT-OFF TIMER, 115 VOLT, 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 MODELS 2310 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 F-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 "SAW".		
HB-1	HOSE BIBB (EXTERIOR) (NON-FREEZE)	--	--	--	3/4	-	WOODFORD MODEL 67 - EXPOSED STYLE WITH MODEL 50HA BACKFLOW PREVENTER, 3/4" INLET, AND CHROME PLATED. PROVIDE WITH TEE KEY AND INSTALL AT 18" ABOVE FINISH 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-A: VITREOUS CHINA, COUNTERTOP MOUNTED, HOLES ON 4" CENTERS, AND GRID STRAINER. KOHLER CORALAIR MODEL K-1518: 4 1/2" LONG, SINGLE LEVER FAUCET WITH 5 GPM AERATOR. PROVIDE WITH WATTS SERIES USG-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, PLUMBEREX, OR EQUAL.		
OL-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 1510: 90° THREADED SIDE OUTLET DRAIN WITH ANGLED GRATE, CAST IRON BODY. PROVIDE WITH DOWNSPOUT ADAPTER FIGURE NUMBER 1559.		
RP-1	RECIRCULATION PUMP (HOT WATER RETURN SYSTEM)	--	--	--	3/4	-	BELL AND GSSETT BRONZE MODEL NPI-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 GM40AV. APPROVED ALTERNATE: ARMSTRONG, TACO, GRUNDFOS.		
RPBP-1	REDUCED PRESSURE BACKFLOW PREVENTER	INDIRECT			--	-	WATTS SERIES LF009 REDUCED PRESSURE ZONE ASSEMBLY WITH QUARTER TURN BALL VALVES, BRONZE STRAINER, AND AIR GAV. BRONZE BODY CONSTRUCTION - 1/2" THRU 2", PROVIDED WITH STRAINER, LEAD FREE. 2 1/2" THRU 10" 957 SERIES. SEE NOTE 6.		
S-1	SINK - SINGLE COMPARTMENT (17" X 22" X 6 1/2") (ADA COMPLIANT)	2	1 1/2	1 1/2	1/2	1/2	ELKAY LUSTERTONE MODEL LRAD-1722: 6 1/2" DEEP STAINLESS STEEL SINK. ELKAY MODEL LK-3001 SINGLE LEVER FAUCET, SWING SPOUT, AND HOSE SPRAY. PROVIDE WITH ELKAY MODEL LK-35 CHROME PLATED TAILPIECE AND STAINLESS STEEL BASKET.		
S-2	DECON SINK - DOUBLE COMPARTMENT, TWO DRAINSBOARDS (FLOOR MOUNTED)	2	1 1/2	1 1/2	1/2	1/2	ADVANCED TABCO MODEL 94-22-40-18RL: TWO COMPARTMENT, TWO DRAINSBOARDS, FLOOR MOUNTED STAINLESS STEEL SINK WITH 14" WATER LEVEL AND ADJUSTABLE BULLET FEET. PROVIDE WITH CHICAGO FAUCET MODEL DJ18KABC, 18" DOUBLE DRAINED SWING SPOUT AND CHICAGO FAUCET MODEL 628-LESAB SINGLE INLET REMOTE FITTING FOR WALL MOUNTED APPLICATION. PROVIDE CHICAGO FAUCET MODEL 625-SLOBRCF HOT AND COLD WATER PEDAL BOX WITH SHORT PEDALS FOR OPERATION.		
S-3	KITCHEN SINK - DOUBLE COMPARTMENT (13" X 16" X 6 1/2" 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-VS SINGLE LEVER, PULL-DOWN STAINLESS STEEL SWING SPOUT FAUCET. PROVIDE WITH ELKAY MODEL LK-35 CHROME PLATED TAILPIECE 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 BL106C: 7" DEEP, STAINLESS STEEL SINK. PROVIDE WITH ELKAY MODEL LK02223: DUAL HANDLE MIXING FAUCET WITH HIGH GOOSENECK SPOUT AND ELKAY MODEL LK-35 CHROME PLATED TAILPIECE AND STAINLESS STEEL BASKET.		
S-5	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 628-ABC REMOTE RIDGIDSWING GOOSENECK SPOUT. PROVIDE CHICAGO FAUCET MODEL 625-SLOBRCF HOT AND COLD WATER PEDAL BOX WITH SHORT PEDALS FOR OPERATION.		
SA-1	SHOCK ABSORBER (WATER HAMMER ARRESTOR)	--	--	--	--	-	JAY R. SMITH FIGURE NUMBER 505 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 8375EP15 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, ANTI-VANDAL RESISTANT HEAD, ARRI, AND FLANGE.		
SHR-2	SHOWER TRIM (ADA COMPLIANT)	2	1 1/2	2	1/2	1/2	ACORN MODEL 538-ADA BARRIER FREE SHOWER, INCLUDES SAFI-TROL PRESSURE BALANCING MIXING VALVE WITH HIGH LIMIT TEMP. SET TO 110° 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.		

PLUMBING FIXTURE SCHEDULE									
SYMBOL	Fixture Description	Connection Size					Manufacturer / Model Number / Description / Additional Comments		
		Waste	Vent	Trap	CW	HW			
SS-1	SERVICE SINK (36" X 24" X 12") (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 2 SIDE STAINLESS STEEL WALL GUARD.		
SS-2	SERVICE SINK (24" X 24" X 12") (FLOOR MOUNTED)	3	2	3	1/2	1/2	ACORN TERRAZZO-WARE MODEL TSH-24: PROVIDE AND INSTALL WITH STAINLESS STEEL BUMPER GUARD, DRAIN GASKET, CHROME FAUCET, 36" HOSE AND WALL HANGER, MOP HANGER, AND 2 SIDE STAINLESS STEEL WALL GUARD.		
TD-1	TRENCH DRAIN (10" WIDE) (HEAVY TRAFFIC RATED)	4	2	2	--	-	JAY R. SMITH FIGURE NUMBER 9812-10" WIDE TRENCH DRAIN SYSTEM WITH INTEGRAL METAL RAIL, PROVIDE WITH END CAPS, OUTLETS, CATCH BASIN (98123-880-CB24-BP) AND HEAVY DUTY (CLASS C) GALVANIZED STEEL BAR GRATE (MODEL 9812-6). REFER TO ARCHITECTURAL PLAN FOR EXACT LENGTH REQUIREMENTS.		
TP-1	TRAP PRIMER (PRESSURE ACTIVATED) (1 TO 4 TRAPS)	--	--	--	1/2"	-	PRECISION PLUMBING PRODUCTS MODEL CPO-500 WITH DU DISTRIBUTION UNIT IF REQUIRED FOR SERVING MORE THAN ONE TRAP. APPROVED ALTERNATES: MIFAB, SIOUX CHIEF, SLOAN, AND ZURN		
TP-2	TRAP PRIMER (FLUSH VALVE PRIMER) (1 TRAP)	--	--	--	1/2"	-	PRECISION PLUMBING PRODUCTS MODEL FVP-1VB WITH VACUUM BREAKER. APPROVED ALTERNATES: MIFAB, SIOUX CHIEF, SLOAN, AND ZURN		
US-1	UTILITY SINK (24-1/2" X 22" X 13-1/2") (DROP-IN)	2	1 1/2	1 1/2	1/2	1/2	FIAT MOLDED STONE MODEL DL-1. PROVIDE WITH CHICAGO FAUCET MODEL 895-317GN2ABC SWING GOSENECK SPOUT, 4" WRISTLE BACKPLATE, AND DRAIN WITH STOPPER.		
WB-1	WALL BOX (WATER SUPPLY TO ICE MAKER)	--	--	--	1/2	-	OATEY FIREMASTER MODEL 39121 WITH FACEPLATE, ADJUSTABLE METAL SUPPORT BRACKET, AND WATER HAMMER ARRESTOR, FIRE-RATED, LOW LEAD, OR APPROVED EQUAL.		
WB-2	WALL BOX								

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.	
 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 1 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	

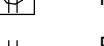
DEVICES

 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

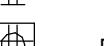
 DUAL LEVEL SWITCHING, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.

 DUAL LEVEL SWITCHING WITH OCCUPANCY SENSOR, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.

 SINGLE CONVENIENCE OUTLET, +18" AFF UNO

 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

 CONNECTION POINT TO EQUIPMENT SPECIFIED, ELECTRICAL CONTRACTOR TO SUPPLY RACEWAY AND CONDUCTORS AND MAKE FINAL CONNECTION TO EQUIPMENT UNDER THIS SECTION. UNO

 JUNCTION BOX

 WALL MOUNTED PUSH BUTTON, MOUNT AT SWITCH HEIGHT UNO

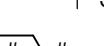
 WALL MOUNTED PUSH BUTTON, MOUNT AT SWITCH HEIGHT UNO

 MOTOR STARTER/CONTACTOR, SIZE/POLES NEMA 1 UNO AS INDICATED

 COMBINATION STARTER AND DISCONNECT, SIZE/POLES, STARTER SIZE AS INDICATED. NEMA 1 UNO

 FUSED DISCONNECT SWITCH, SIZE/POLES, FUSE SIZES AS INDICATED. NEMA 1 UNO

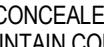
 NON-FUSED DISCONNECT SIZE/POLES AS INDICATED, NEMA 1 UNO

 THERMOSTAT, +46" AFF PROVIDE CONDUIT, J-BOX, CONDUCTORS AS REQUIRED TO CONTROL ASSOCIATED UNITS. UNO COORDINATE WITH DIVISION 15.

 TRANSFORMER

 PANELBOARD. SEE SCHEDULE FOR TYPE.

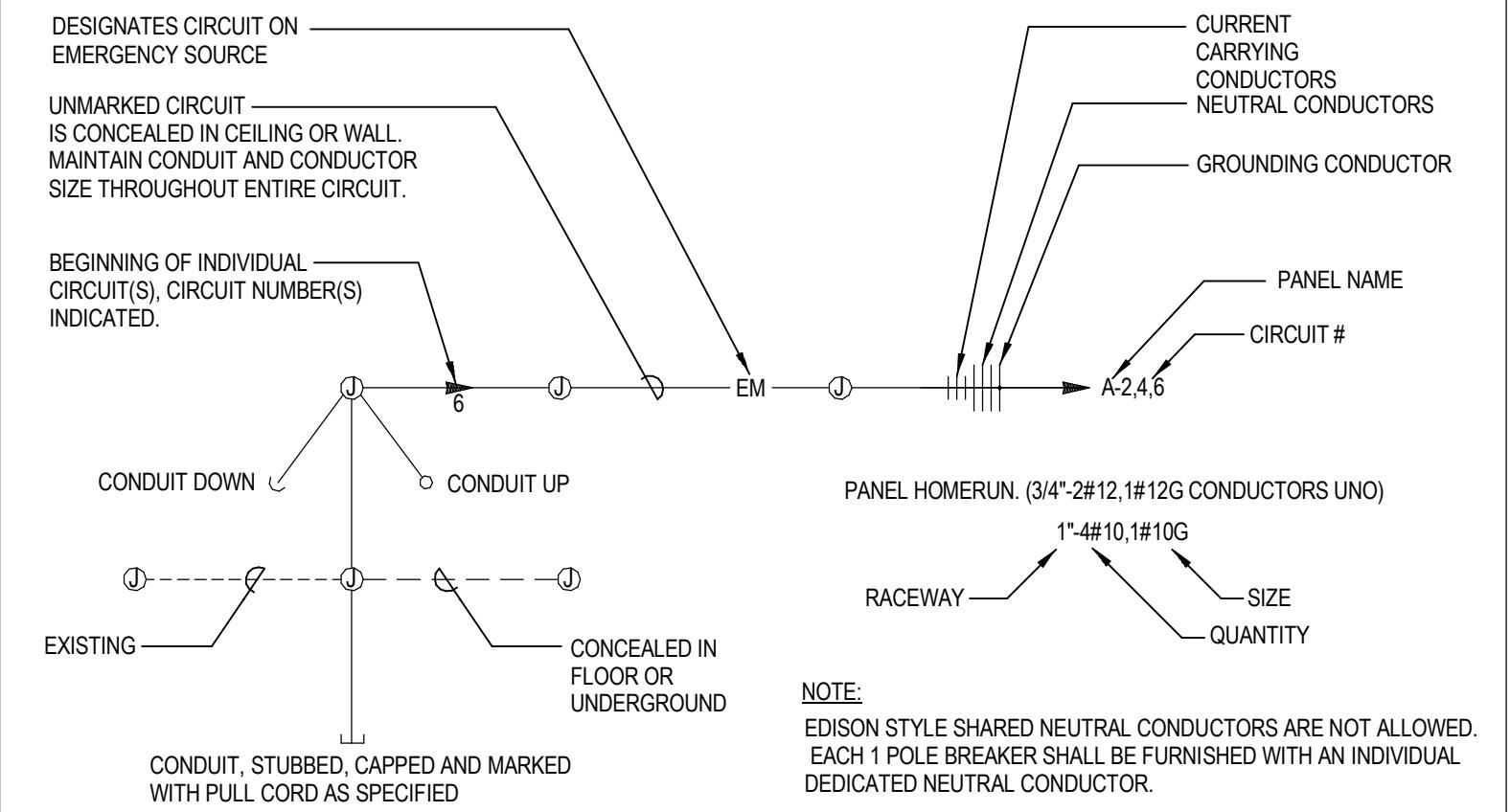
 EQUIPMENT CABINET, SURFACE MOUNTED

 EQUIPMENT CABINET FLUSH MOUNTED

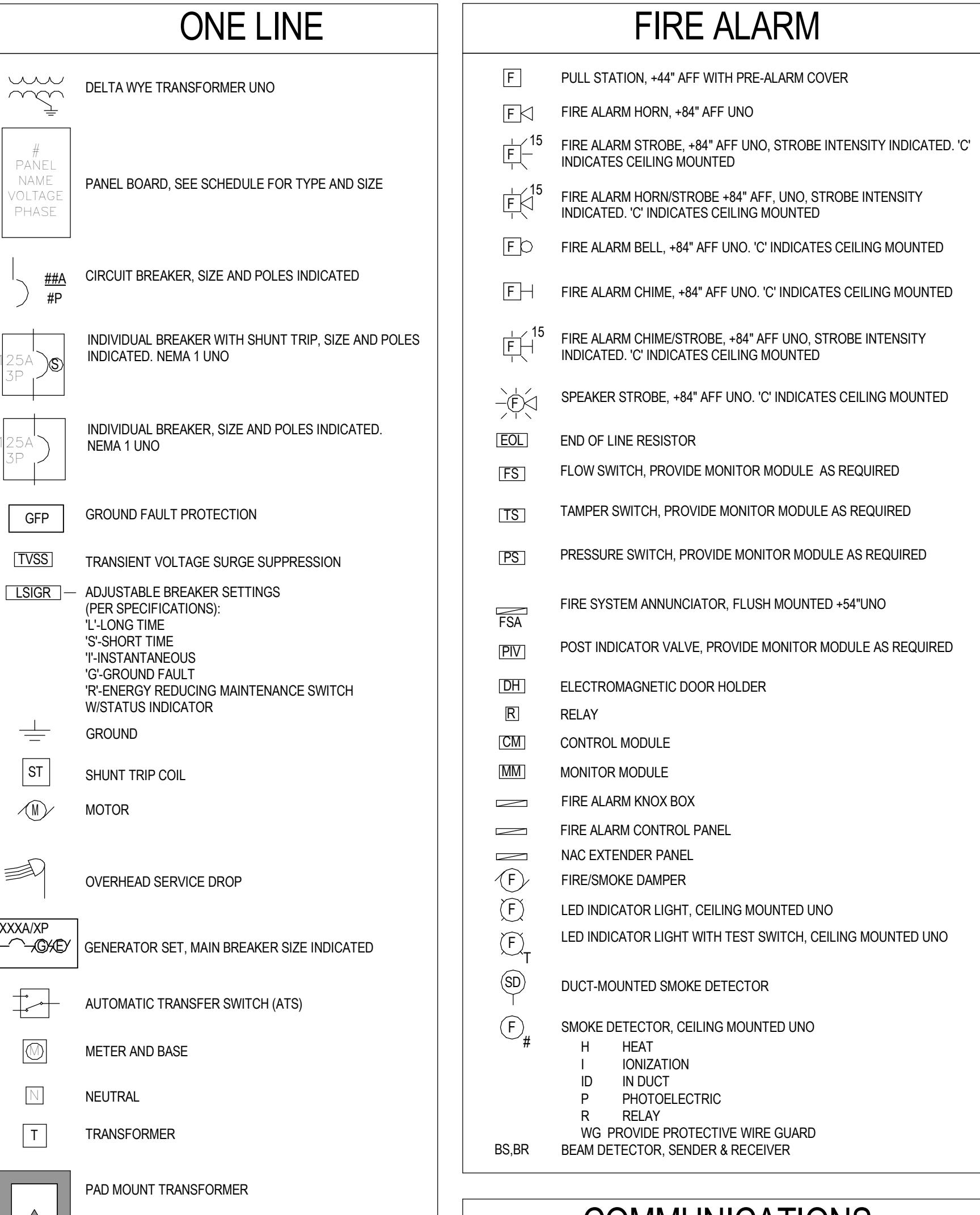
 SURFACE MULTI-OUTLET RACEWAY

 MECHANICAL EQUIPMENT CALL OUT

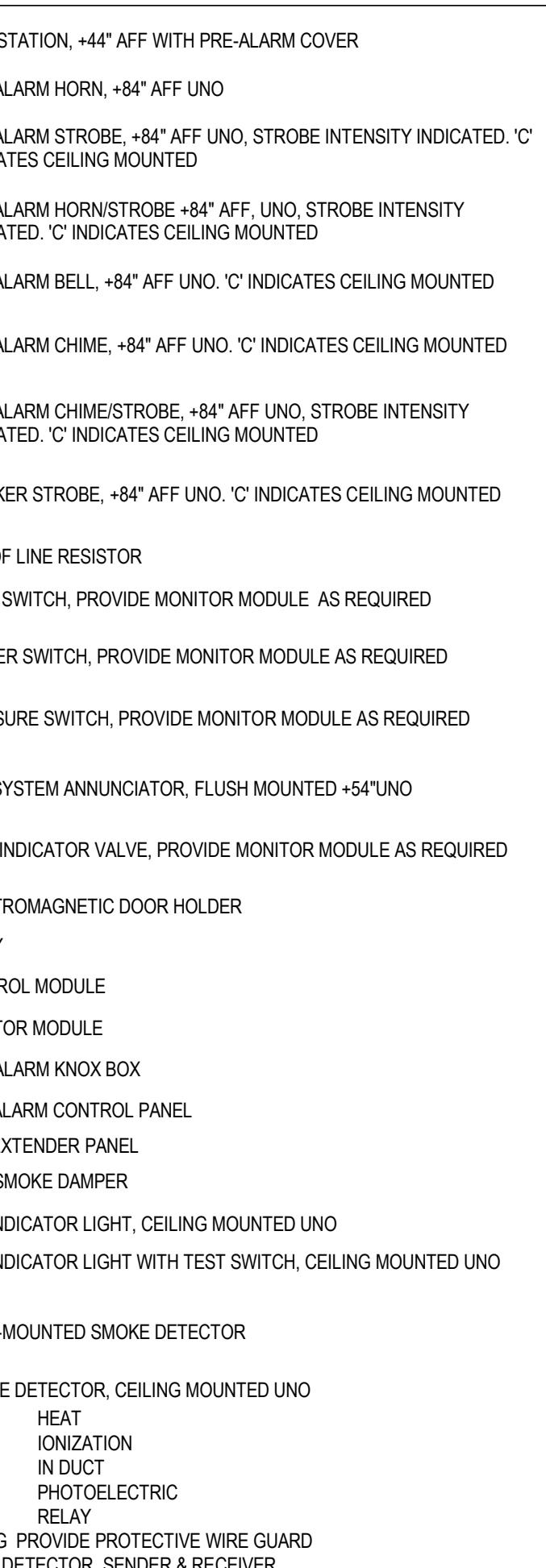
CIRCUITING SYMBOLS



ONE LINE



FIRE ALARM



ELECTRICAL ABBREVIATIONS

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

COMMUNICATIONS

#D#T

V

IC

S

HV

TV

TTB

TV

CE

NOTE:

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

ELECTRICAL SHEET INDEX

Sheet Number	Sheet Name

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COLE ARCHITECTS

COLE ARCHITECTS | 1802 W. BANNOCK SUITE 208
Boise, ID 83702 | (208) 345-1800

T C A

A
architecture • planning
TCA | 6211 Roosevelt Way NE
Seattle, WA 98115 | (206) 522-3820

STAMP:



CONSULTANT:



MUSGROVE
ENGINEERING, P.A.

234 S. Whisperwood Way
Boise, Idaho 83709
208.384.0585
www.musgrovepa.com

OVER 30 YEARS OF EXCELLENCE
project number: 15-061

PROJECT INFORMATION:



City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

C
REVISIONS:

MARK	DATE	DESCRIPTION

D
PROJECT PHASE 75% CD'S

PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	RM/TM

SHEET NAME:

**LIGHTING
COMPLIANCE
REPORT**

SHEET NUMBER:
E001

12.07.15

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, PROGRAMMED, AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.

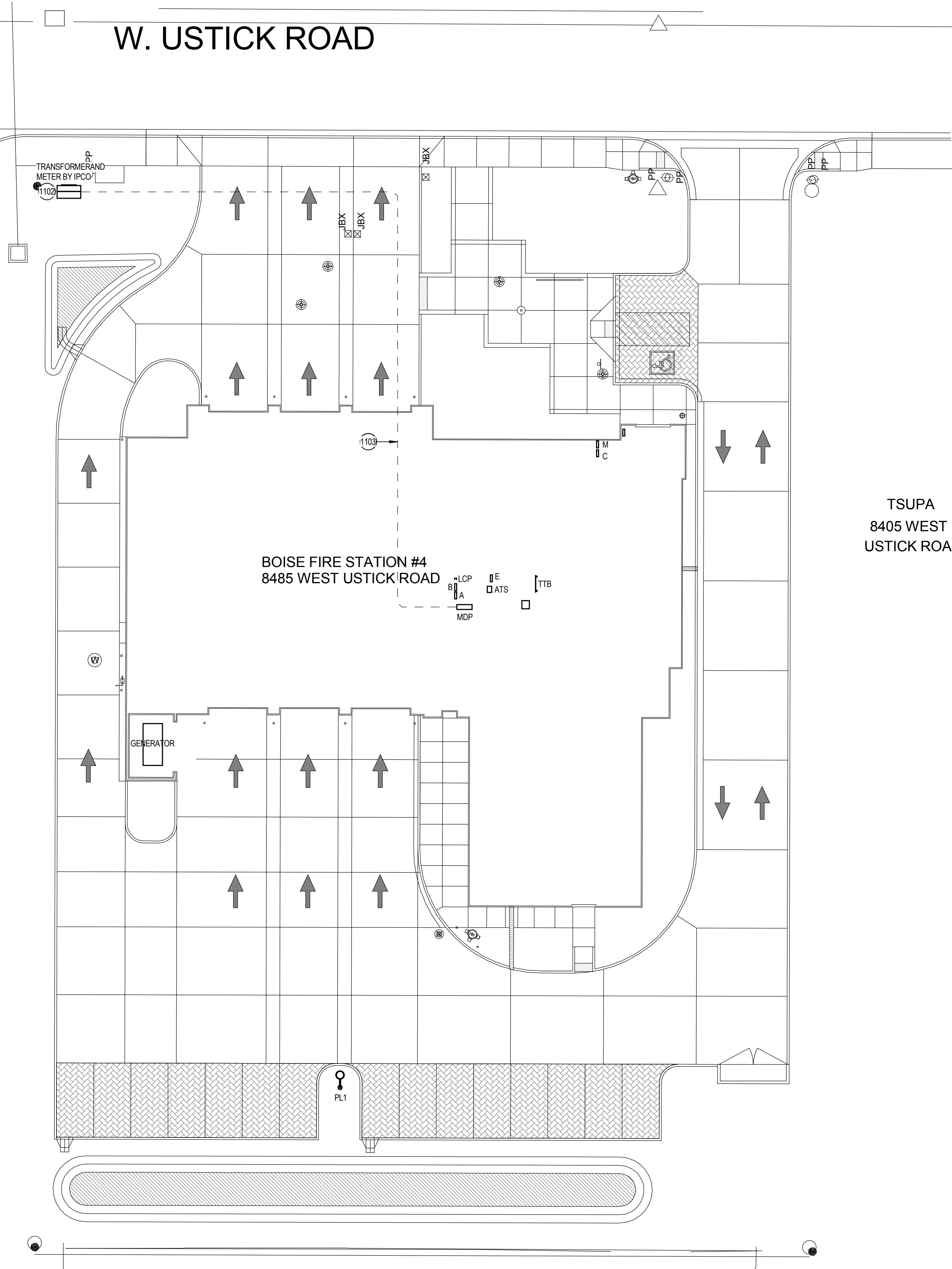
THE APPROVED PARTY THAT WILL CONDUCT THE FUNCTIONAL TESTING ON THE AUTOMATIC LIGHTING CONTROL SYSTEM SHALL BE DEFERRED. WHERE OCCUPANT SENSORS, TIME SWITCHES, PROGRAMMABLE CONTROLS, PHOTORESISTORS OR DAYLIGHTING CONTROLS ARE INSTALLED, THE FOLLOWING PROCEDURES SHALL BE PREFORMED:

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.

W. USTICK ROAD



ELECTRICAL SITE PLAN

1/16" = 1'-0"

GENERAL NOTES

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

KEYED NOTES

- (○) SYMBOL USED FOR NOTE CALLOUT.
 1102 PAD MOUNTED TRANSFORMER, PAD, AND METER BY IDAHOP POWER COMPANY.
 1103 UNDERGROUND SECONDARY. RE-ONE-LINE

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CONSULTANT:



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234 S. Whisperwood Way
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208.384.1885
www.musgrovepa.com

OVER 30 YEARS OF EXCELLENCE
project number: 15-061

PROJECT INFORMATION:



City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE | 75% CD'S

PROJECT PHASE	75% CD'S
PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	RM/TM

SHEET NAME:

**ELECTRICAL SITE
PLAN**

SHEET NUMBER:

E101

12.07.15

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, LOOKOUT 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.
 607 FLUSH MOUNTED REMOTE ANNUNCIATOR AT +54". CONTRACTOR SHALL VERIFY LOCATION OF ANNUNCIATOR PANEL WITH LOCAL FIRE MARSHAL PRIOR TO ROUGH-IN.

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City of Boise Fire Station 4
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REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE 75% CD'S

PROJECT PHASE	75% CD'S
PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	RM/TM

SHEET NAME:

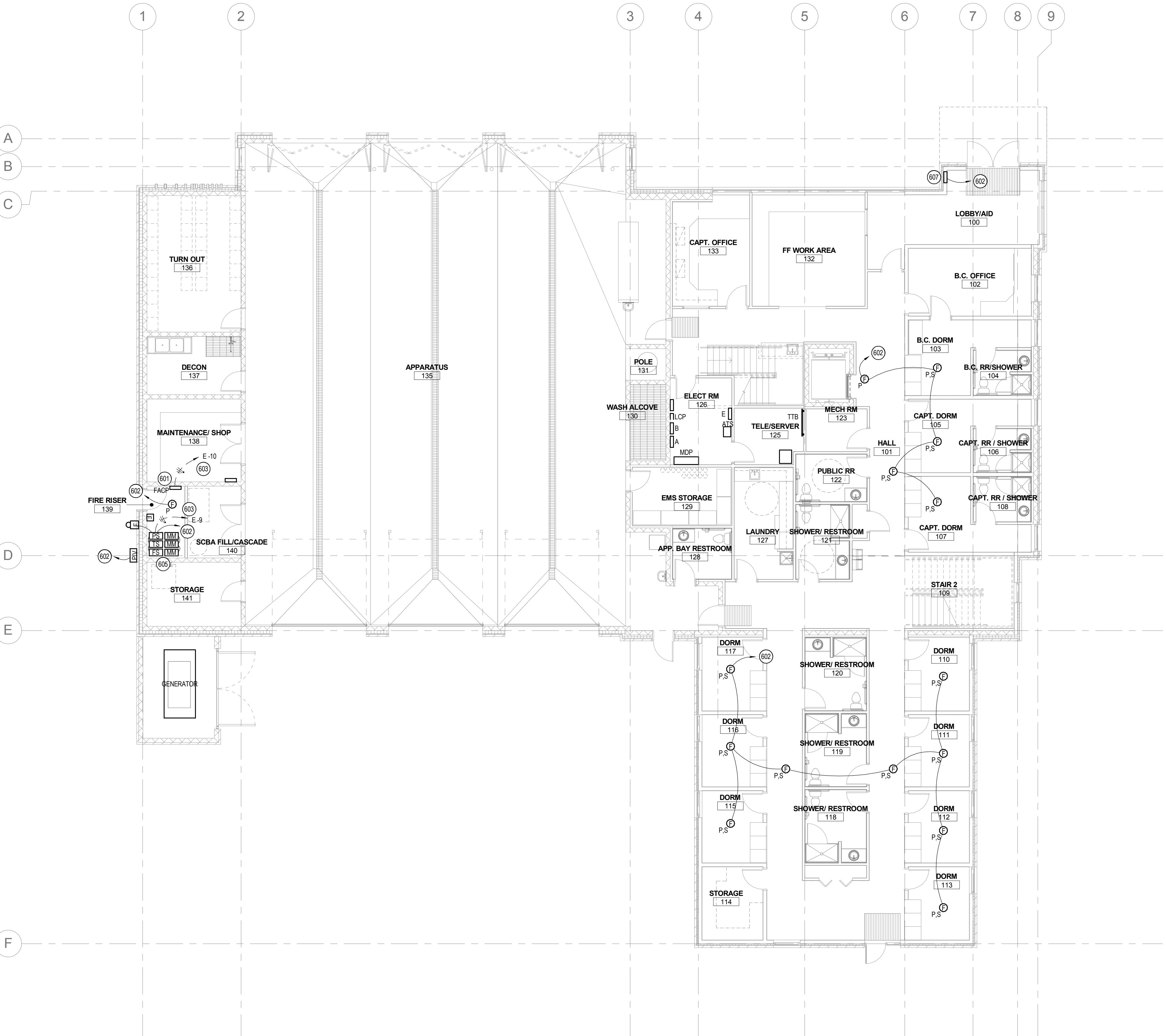
1ST FLOOR FIRE ALARM PLAN

SHEET NUMBER:

E201

12.07.15

1



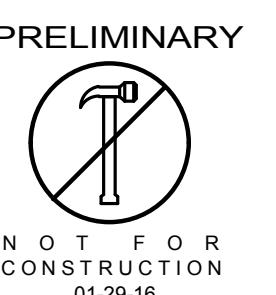
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project number: 15-061

PROJECT INFORMATION:


City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

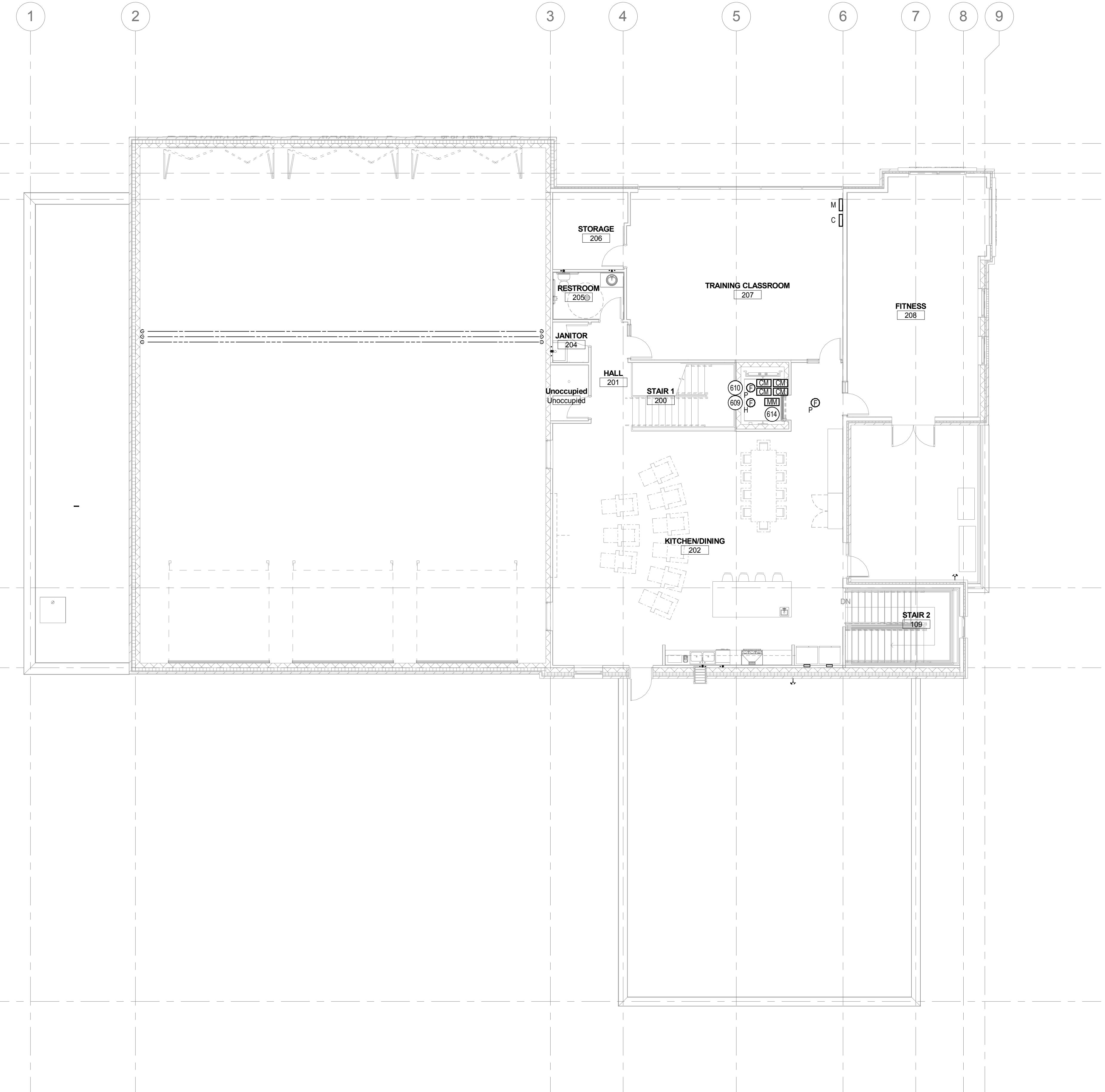
MARK	DATE	DESCRIPTION

PROJECT PHASE	75% CD'S
PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	RM/TM

SHEET NAME:

SHEET NUMBER:	
E202	

12.07.15

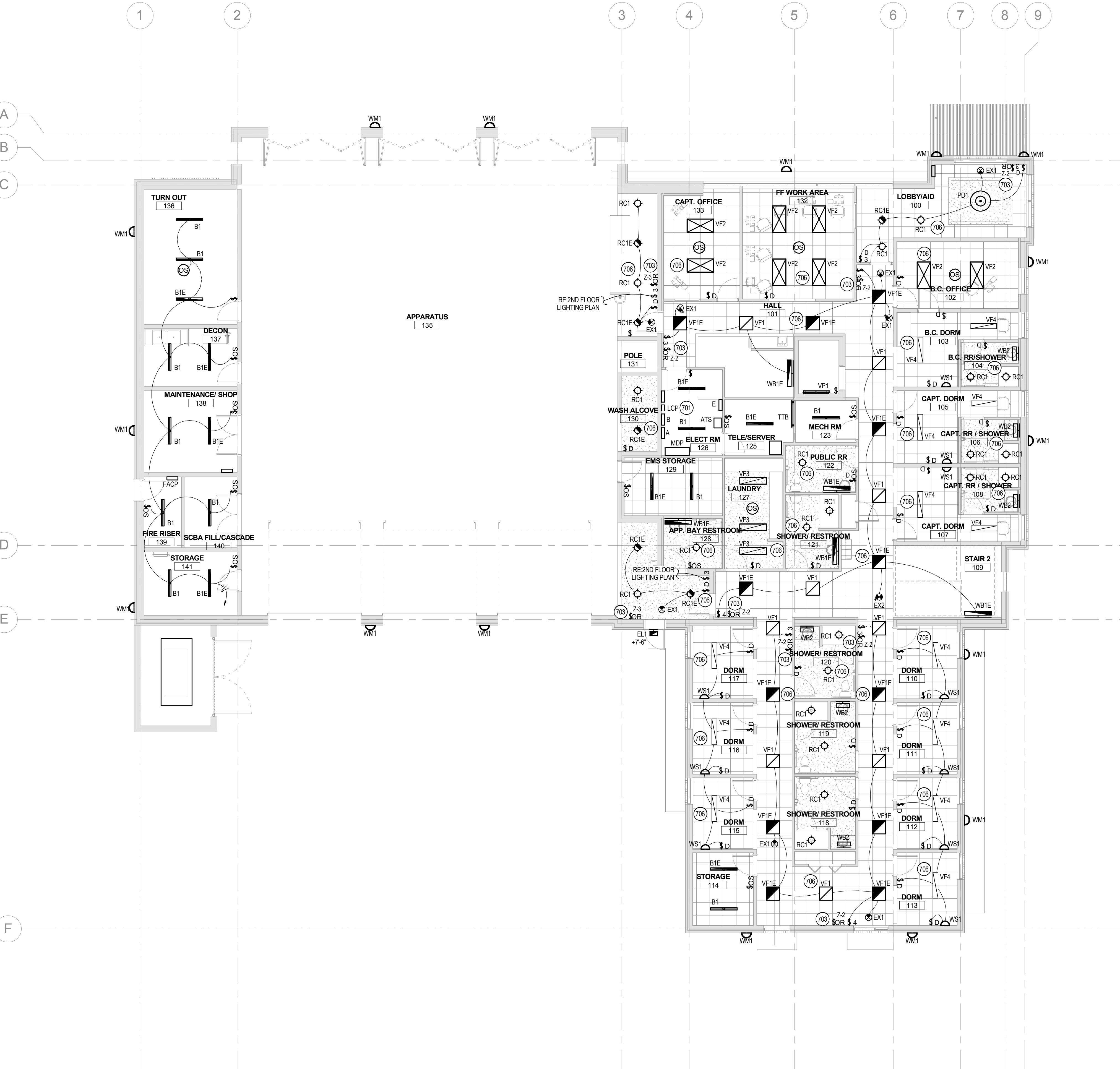

2ND FLOOR FIRE ALARM
1/8" = 1'-0"
**GENERAL NOTES**

- 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.

- 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.



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
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.
- 703 VACUUM PUMP H 212, 1 ALARM, 1000PSI. 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-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.
- 706

ARCHITECT:

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CONSULTANT:



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OVER 30 YEARS OF EXCELLENCE
project number: 15-061

PROJECT INFORMATION:



City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE	75% CD'S
PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	RM/TM

SHEET NAME:

1ST FLOOR LIGHTING PLAN	

SHEET NUMBER:

E203

12.07.15

**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.

- 703 PROVIDE MOMENTARY LOWVOLTAGE 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.
- 706 WHEN A RE 2ND FLOOR ALARM IS ACTIVATED, ACTIVATION OF ALARM SHALL ILLUMINATE ALL LIGHTS ON ASSOCIATED CIRCUIT REGARDLESS OF SWITCH POSITIONS OR OCCUPANCY SENSOR. CONNECT TO ONE SWITCHED LEG FOR DUAL LEVEL FIXTURES. RE 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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OVER 30 YEARS OF EXCELLENCE
project number: 15-061

PROJECT INFORMATION:



City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE	75% CD'S
PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	RM/TM

SHEET NAME:

2ND FLOOR LIGHTING PLAN

SHEET NUMBER:

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 FURRED OUT WALLS AND EXISTING ACCESSORY 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. MECHANICAL EQUIPMENT SHOWN IN APPROXIMATE LOCATION. COORDINATE WITH MECHANICAL CONTRACTOR.

KEYED NOTES

○ SYMBOL USED FOR NOTE CALLOUT.

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CONSULTANT:



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project number: 15-061

PROJECT INFORMATION:



City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

C REVISIONS:

MARK	DATE	DESCRIPTION

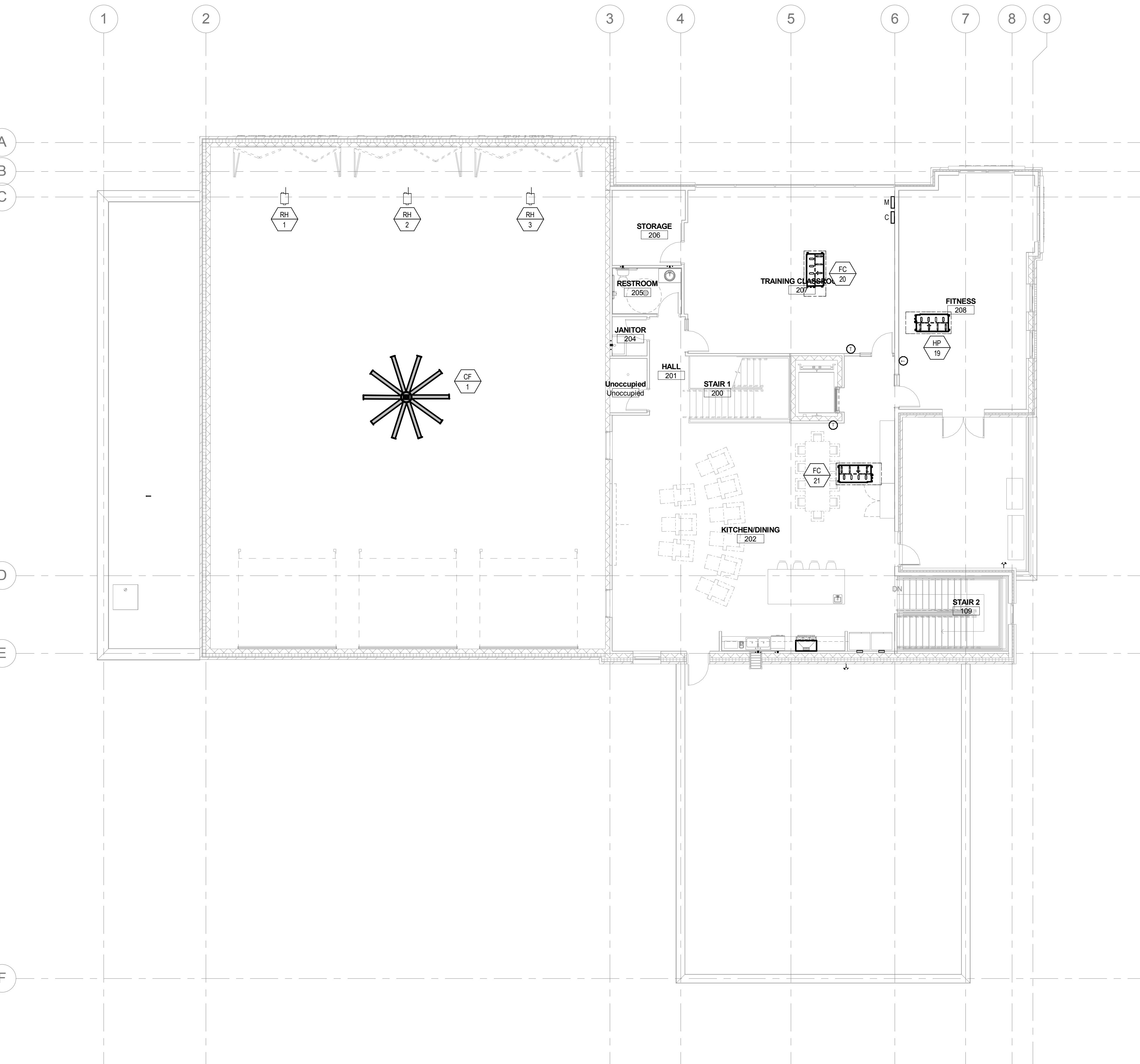
PROJECT PHASE	75% CD'S
PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	RM/TM

SHEET NAME:

**1ST FLOOR
MECHANICAL POWER
PLAN**

SHEET NUMBER:

E205



2ND 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 FURRED OUT WALLS AND EXISTING ACCESS 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. MECHANICAL EQUIPMENT SHOWN IN APPROXIMATE LOCATION. COORDINATE WITH MECHANICAL CONTRACTOR.

KEYED NOTES

○ SYMBOL USED FOR NOTE CALLOUT.

ARCHITECT:
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PROJECT INFORMATION:



City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

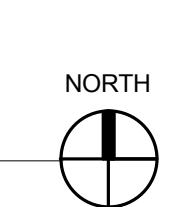
PROJECT PHASE	75% CD'S
PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	RM/TM

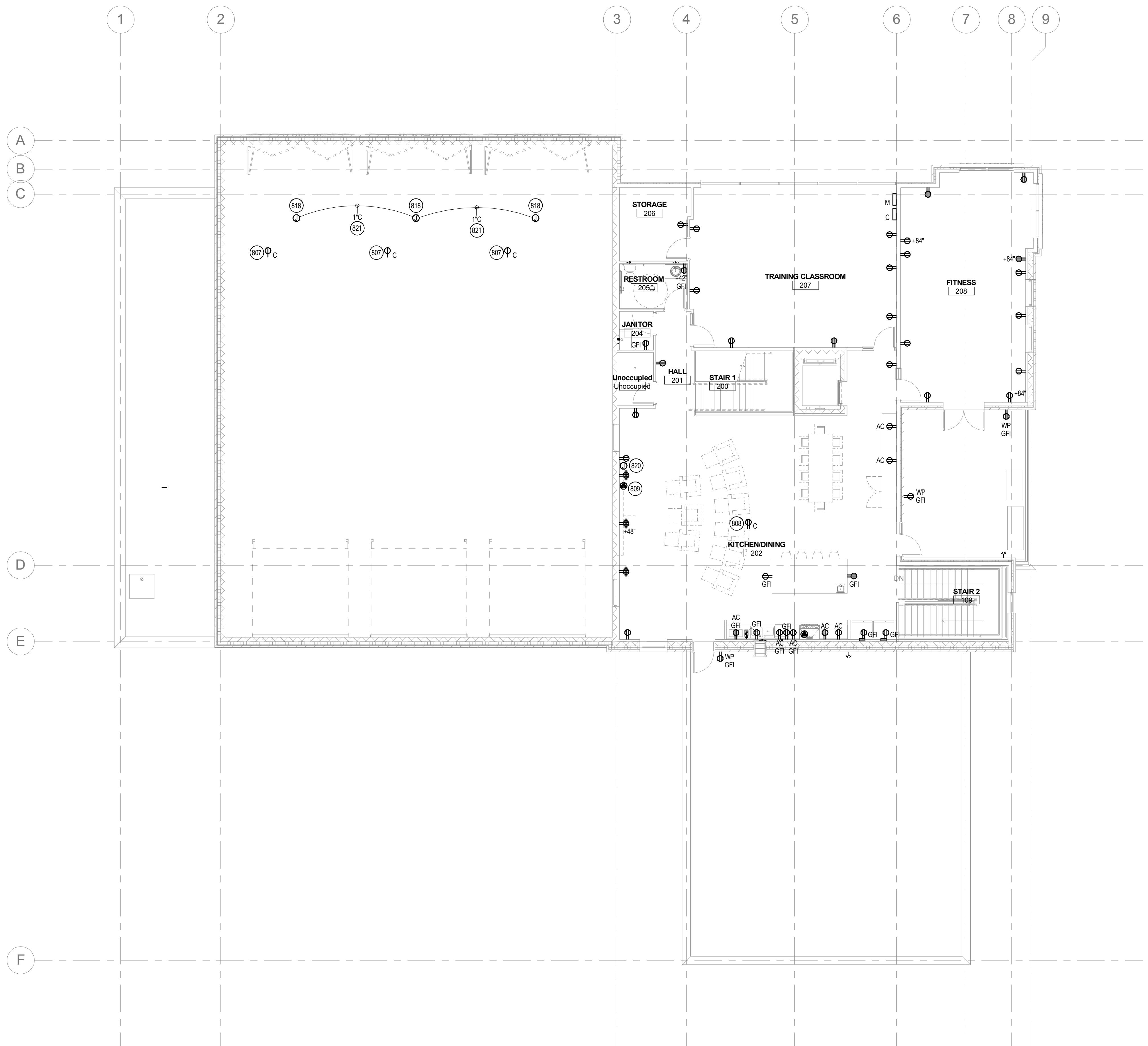
SHEET NAME:

**2ND FLOOR
MECHANICAL POWER
PLAN**

SHEET NUMBER:

E206





2ND FLOOR 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 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 CELINE 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 UNISTRUT 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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OVER 30 YEARS OF EXCELLENCE
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PROJECT INFORMATION:



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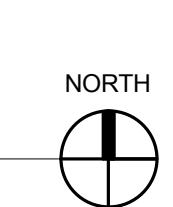
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DRAWN BY	RM/TM

SHEET NAME:

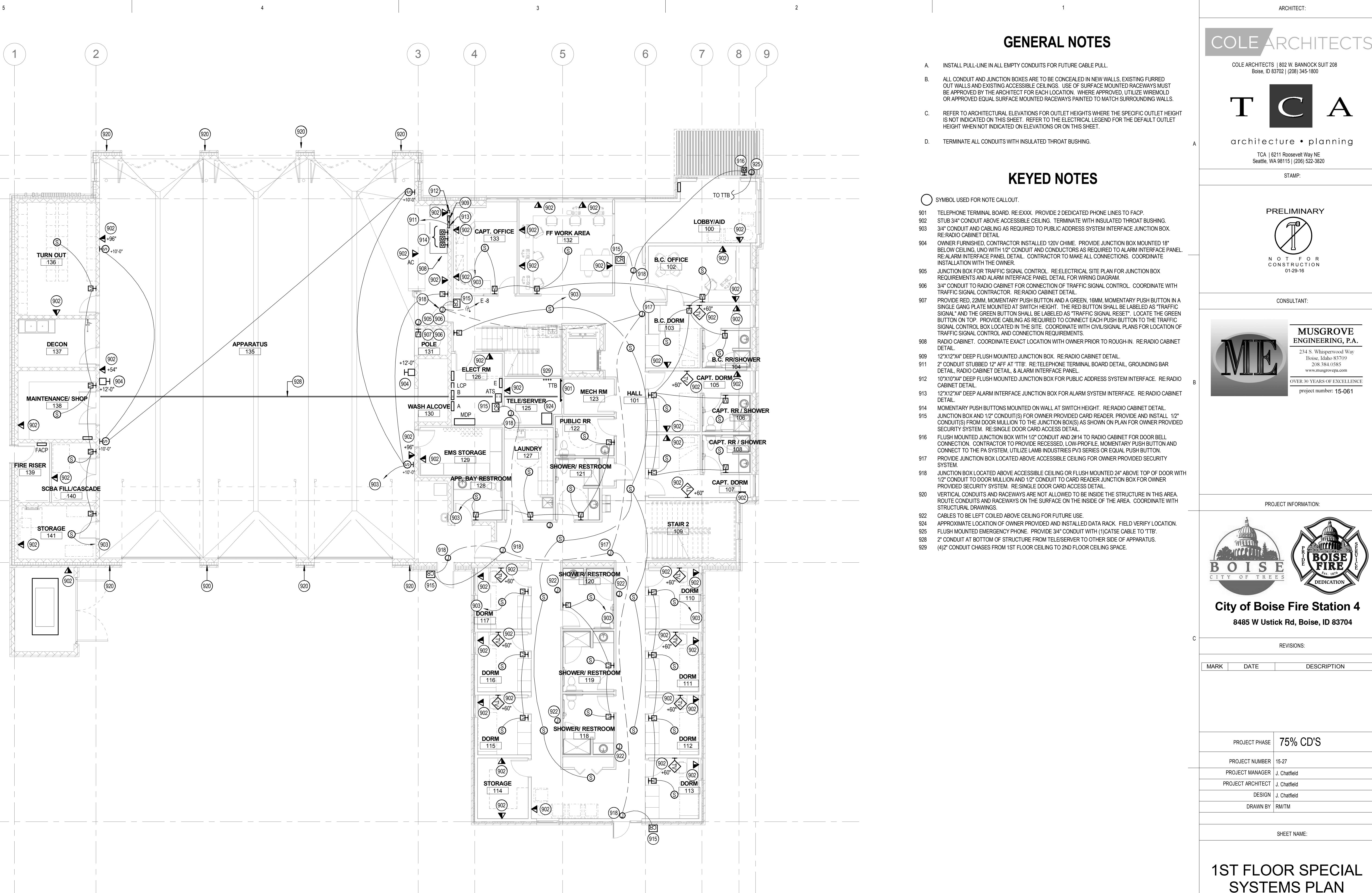
2ND FLOOR POWER
PLAN

SHEET NUMBER:

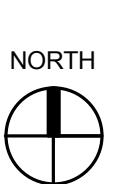
E208



12.07.15



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



1ST FLOOR SPECIAL SYSTEMS PLAN

E209

ARCHITECT:

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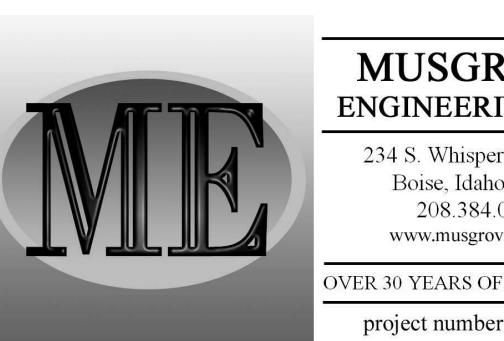
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STAMP:

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CONSULTANT:



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OVER 30 YEARS OF EXCELLENCE

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PROJECT INFORMATION:



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8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

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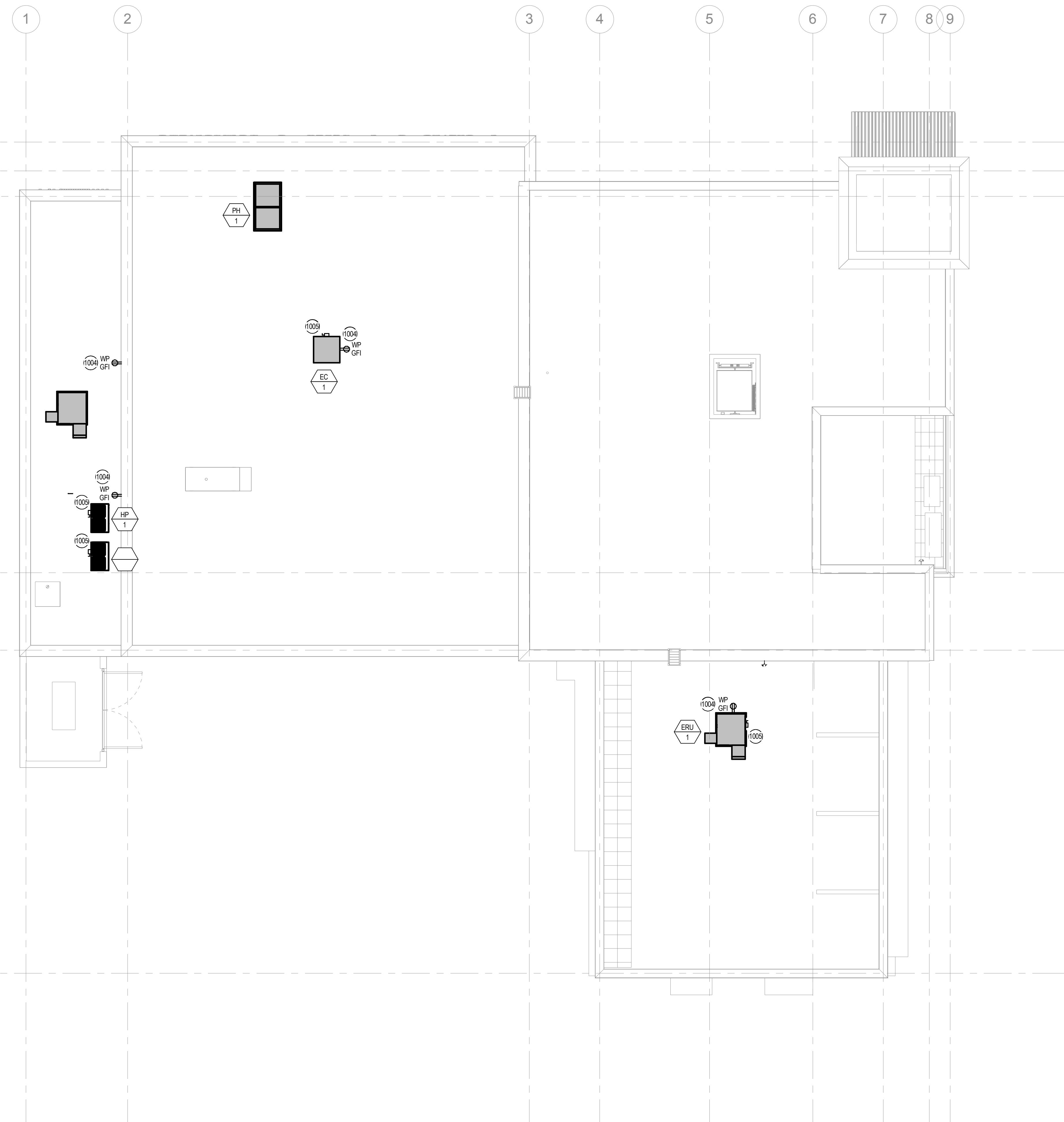
PROJECT PHASE 75% CD'S

PROJECT PHASE	75% CD'S
PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	RM/TM

SHEET NAME:

SHEET NUMBER:

12.07.15



A

A
B
C

B

D
E

C

F

D

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

5

4

3

2

2

1

1

1

1

12.07.15

GENERAL NOTES

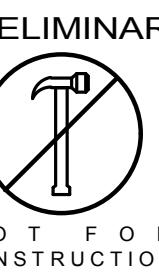
- A. THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE; THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING CONTRACTORS PRIOR TO ROUGH-IN. REFER TO ADN COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING 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. MECHANICAL EQUIPMENT SHOWN IN APPROXIMATE LOCATION. COORDINATE WITH MECHANICAL CONTRACTOR.

KEYED NOTES

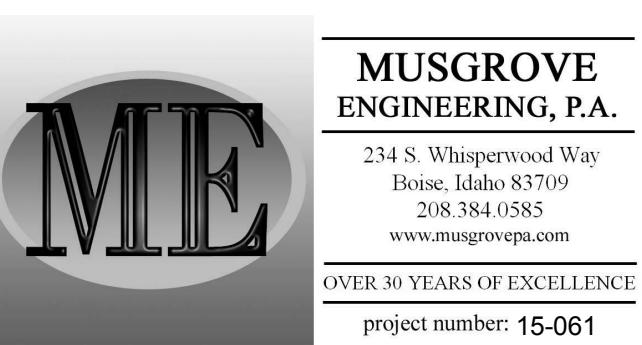
○ SYMBOL USED FOR NOTE CALLOUT.

- 1004 MOUNT RECEPTACLE ON RIGID CONDUIT 12" ABOVE ROOF DECK OR ON MECHANICAL UNIT WHERE APPLICABLE.
- 1005 FIELD COORDINATE DISCONNECT AND CONDENSER LOCATION WITH DIVISION 23 TO MAINTAIN ALL REQUIRED CLEARANCES.

PRELIMINARY



CONSULTANT:



MUSGROVE
ENGINEERING, P.A.
234 S. Whisperwood Way
Boise, Idaho 83709
208.384.0585
www.musgrovepa.com
OVER 30 YEARS OF EXCELLENCE
project number: 15-061

PROJECT INFORMATION:



City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE 75% CD'S

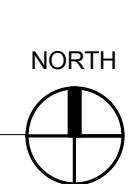
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PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	RM/TM

SHEET NAME:

ELECTRICAL ROOF
PLAN

SHEET NUMBER:

E300



1

1

1

1

12.07.15

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COLE ARCHITECTS | 1802 W. BANNOCK SUITE 208
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Seattle, WA 98115 | (206) 522-3820

STAMP:



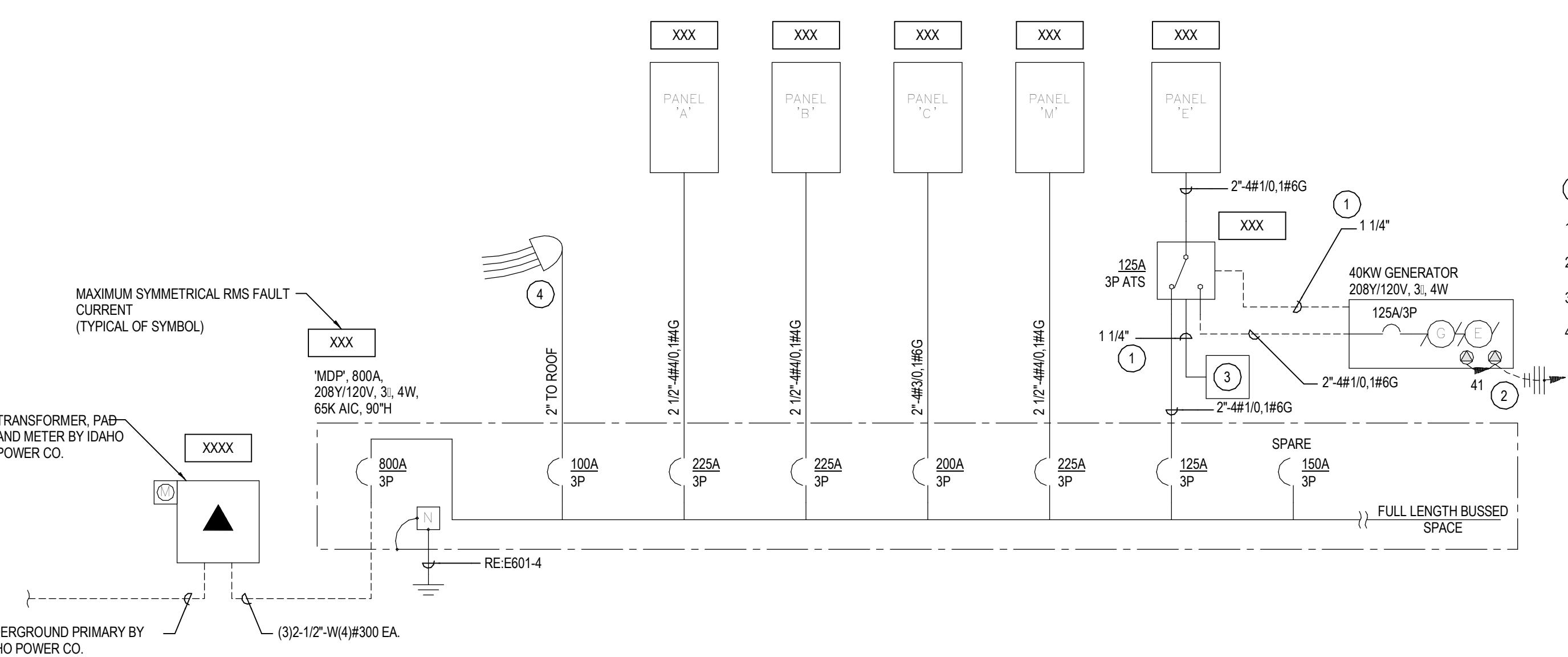
CONSULTANT:



MUSGROVE
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234 S. Whisperwood Way
Boise, Idaho 83709
208-384-0585
www.musgrovepa.com

project number: 15-061



ONE-LINE DIAGRAM

12" = 1'-0"

B

Switchboard: MDP

Location: Space 27
Supply From:
Mounting:
Enclosure:

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

A.I.C. Rating:
Mains Type: BREAKER
Mains Rating:
MCB Rating: 800 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
Total Conn. Load:					0 VA	
Total Amps:					0 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

D

ONE-LINE DIAGRAM GENERAL NOTES:

- A. CONDUIT, CONDUCTORS AND AIC CALCULATIONS FOR ALL SERVICE, PANEL AND EQUIPMENT FEEDERS INDICATED ON THE ONE-LINE HAVE BEEN SIZED BASED ON COPPER. THE CONTRACTOR MAY USE COMPRESSED ALUMINUM CONDUCTORS FOR THESE FEEDERS PROVIDING THE CONDUIT, CONDUCTOR SIZES AND AIC CALCULATIONS ARE ADJUSTED AS REQUIRED TO MEET ALL NATIONAL ELECTRICAL CODE REQUIREMENTS.
- B. FURNISH AND INSTALL ENGRAVED LABEL ON THE FRONT OF THE MAIN SERVICE EQUIPMENT NOTING THE AVAILABLE FAULT CURRENT VALUE SHOWN.

ONE-LINE DIAGRAM KEYED NOTES:

- (1) SYMBOL USED FOR NOTE CALLOUT.
- 1. CABLING AS REQUIRED.
- 2. CONNECTIONS FOR GENERATOR BATTERY CHARGER AND HEATER.
- 3. GENERATOR ANNUNCIATOR PANEL, RE:E-103
- 4. CONDUIT AS INDICATED TO ROOF. PROVIDE WEATHER HEAD AND STUB 18" ABOVE THE ROOF.

3

2

1

Branch Panel: A

Location: Space 27
Supply From:
Mounting: Surface
Enclosure: Type 1

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

A.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:



City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

C REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE 75% CD'S

PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	RM/TM

SHEET NAME:

**ONE-LINE
DIAGRAM/ELECTRICAL
SCHEMES**

D SHEET NUMBER:

E400

12.07.15

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TCA | 6211 Roosevelt Way NE
Seattle, WA 98115 | (206) 522-3820

STAMP:



CONSULTANT:


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 project number: 15-061

City of Boise Fire Station 4
 8485 W Ustick Rd, Boise, ID 83704

A

Lighting Fixture Schedule								
Type Mark	Description	Mounting	Lamp	Manufacturer	Model	Or Equal By	Wattage Comments	Notes
B1	4' LENSED LED STRIPLIGHT, 3000 LUMENS, 35K COLOR TEMP.	SURFACE	42W LED, 3000 LUMENS	LITHONIA LTG H	ZL2N-L48-3000LM-MDD-MVOLT-35K-80CRI-W	LIGHTOLIER/METALUX/H.E. WILLIAMS	42W	①
B1E	4' LENSED LED STRIPLIGHT, 3000 LUMENS, 35K COLOR TEMP., EMERGENCY BATTERY PACK	SURFACE	42W LED, 3000 LUMENS	LITHONIA LTG SLT22-WH	ZL2N-L48-3000LM-MDD-MVOLT-35K-80CRI-B	LIGHTOLIER/METALUX/H.E. WILLIAMS	42W	①
EL1	ARCHITECTURAL EMERGENCY LIGHTING UNIT, INTEGRAL BATTERY, COLD-WEATHER TYPE, DARK BRONZE FINISH	WALL MOUNTED AS NOTED ON PLANS	12W	LITHONIA LTG AFN-DB-EXT		LITHONIA	12W	①
EX1	EXIT LIGHT, DIE-CAST ALUMINUM, LED, GREEN LETTERING, DARK BRONZE HOUSING COLOR, SINGLE FACE	CEILING MOUNTED	LED	LITHONIA LTG	LE-S-BZ-1-G-EL N		1.3	①
EX2	EXIT LIGHT, DIE-CAST ALUMINUM, LED, GREEN LETTERING, DARK BRONZE HOUSING COLOR, DOUBLE FACE	CEILING MOUNTED	LED	LITHONIA LTG	LE-S-BZ-2-G-EL N		1.3	①
HB1	LED HIGH BAY	SURFACE	131W LED, 12000 LUMENS	LITHONIA LTG RI-WH	IBH-12000LM-L/LENS-MD-120-GZ10-40K-80C		131	①
PD1	LOBBY PENDANT FIXTURE	PENDANT	71.7W LED, 5109 LUMENS	ADVENT/SPI LIGHTING	AIP8152-L71.7W-120-277V-3500K-PT**		71.7W	①
PL1								
RC1	ROUND RECESSED, 6" APERTURE, DIMMING	CEILING RECESSED	26W LED, 1500 LUMENS	LITHONIA LTG	LDN6-35/15-L06-AR-120	LIGHTOLIER/PORTFOLIO/PRESCOLITE	26W	①
RC1E	ROUND RECESSED, 6" APERTURE, WITH EMERGENCY BATTERY PACK, DIMMING	CEILING RECESSED	26W LED, 1500 LUMENS	LITHONIA LTG	LDN6-35/15-L06-AR-120-EL	LIGHTOLIER/PORTFOLIO/PRESCOLITE	26W	①
VF1	2X2 VT SERIES VOLUMETRIC LED TROFFER	CEILING RECESSED	20W LED, 2000 LUMENS	LITHONIA LTG	2VTL2-20L-ADP-EZ1-LP835		20W	①
VF1E	2X2 VT SERIES VOLUMETRIC LED TROFFER, WITH EMERGENCY BATTERY PACK	CEILING RECESSED	20W LED, 2000 LUMENS	LITHONIA LTG	2VTL2-20L-ADP-EZ1-LP835-EL7L		20W	①
VF2	2X4 VT SERIES VOLUMETRIC LED TROFFER, DIMMING	CEILING RECESSED	30W LED, 3000 LUMENS	LITHONIA LTG	2VTL4-30L-ADP-EZ1-LP835		30W	①
VF3	1X4 VT SERIES VOLUMETRIC LED TROFFER, DIMMING	CEILING RECESSED	28.98W LED, 3000 LUMENS	LITHONIA LTG	VTL4-30L-ADP-EZ1-LP835		29.98W	①
VF4	DORM FIXTURE, 1X4 VT SERIES VOLUMETRIC LED TROFFER, DIMMING	CEILING RECESSED	28.98W LED, 3000 LUMENS	LITHONIA LTG	VTL4-30L-ADP-EZ1-LP835		26.7W	①
VP1	4' LOW-PROFILE ENCLOSED AND GASKETED FIXTURE	WALL MOUNTED	39W LED, 3418 LUMENS	LITHONIA LTG	FEM4LED-3L-IMAFL-120		39W	①
WB1E	4' WALL MOUNTED LED, WITH LED EMERGENCY BATTERY PACK	WALL MOUNTED	28.2W LED, 3095 LUMENS	LITHONIA LTG	WL4-30L-EZ1-LP835-EL14L		28.2W	①
WB2	2' WALL BRACKET	WALL MOUNTED	17.5W LED, 1796 LUMENS	LITHONIA LTG	WL2-18L-EZ1-LP835		17.5W	①
WB3	EXTERIOR WALL SCONCE	WALL MOUNTED	20W LED, 1854 LUMENS	LITHONIA LTG	OLWX1 LED-20W-40K		20W	①
WM1	ARCHITECTURAL WALL SCONCE	WALL MOUNTED	(1)LED ENGINE	LITHONIA LTG	WSQ LED-1-10A700/40K-SR3-MVOLT-ELCW(WHERE INDICATED)-DBBXD		29W	①
WS1	WALL SCONCE	WALL MOUNTED	9W LED, 803 LUMENS	MODERN FORMS	WS-11807-WT		9W	①

①

B

C

LIGHTING FIXTURE SCHEDULE NOTES								
1 SUBSTITUTIONS WILL BE ALLOWED IF SUBMITTED PRIOR TO BID DATE BY THE GREATER OF 7 BUSINESS DAYS OR THE TIME PERIOD SPECIFIED BY DIVISION 1 SPECIFICATIONS, AND IF DEEMED EQUAL BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING SUBSTITUTED MEET OR EXCEED THE SPECIFICATIONS OF THE FIXTURES SPECIFIED.								

D

PROJECT PHASE	75% CD'S
PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	RM/TM

SHEET NAME:

SHEET NUMBER:
E402

12.07.15

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Seattle, WA 98115 | (206) 522-3820

STAMP:

PRELIMINARY



CONSULTANT:



PROJECT INFORMATION:



City of Boise Fire Station 4
8485 W Ustick Rd, Boise, ID 83704

REVISIONS:

MARK	DATE	DESCRIPTION

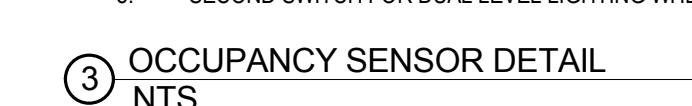
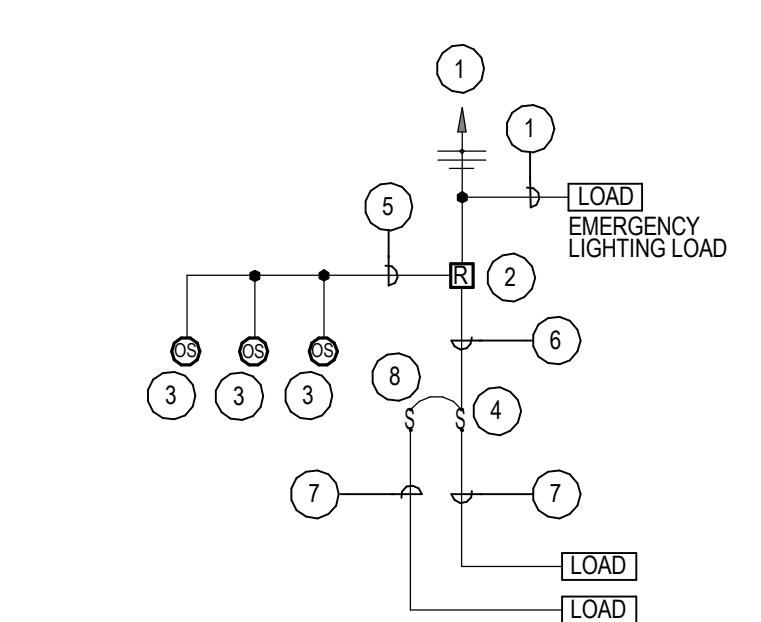
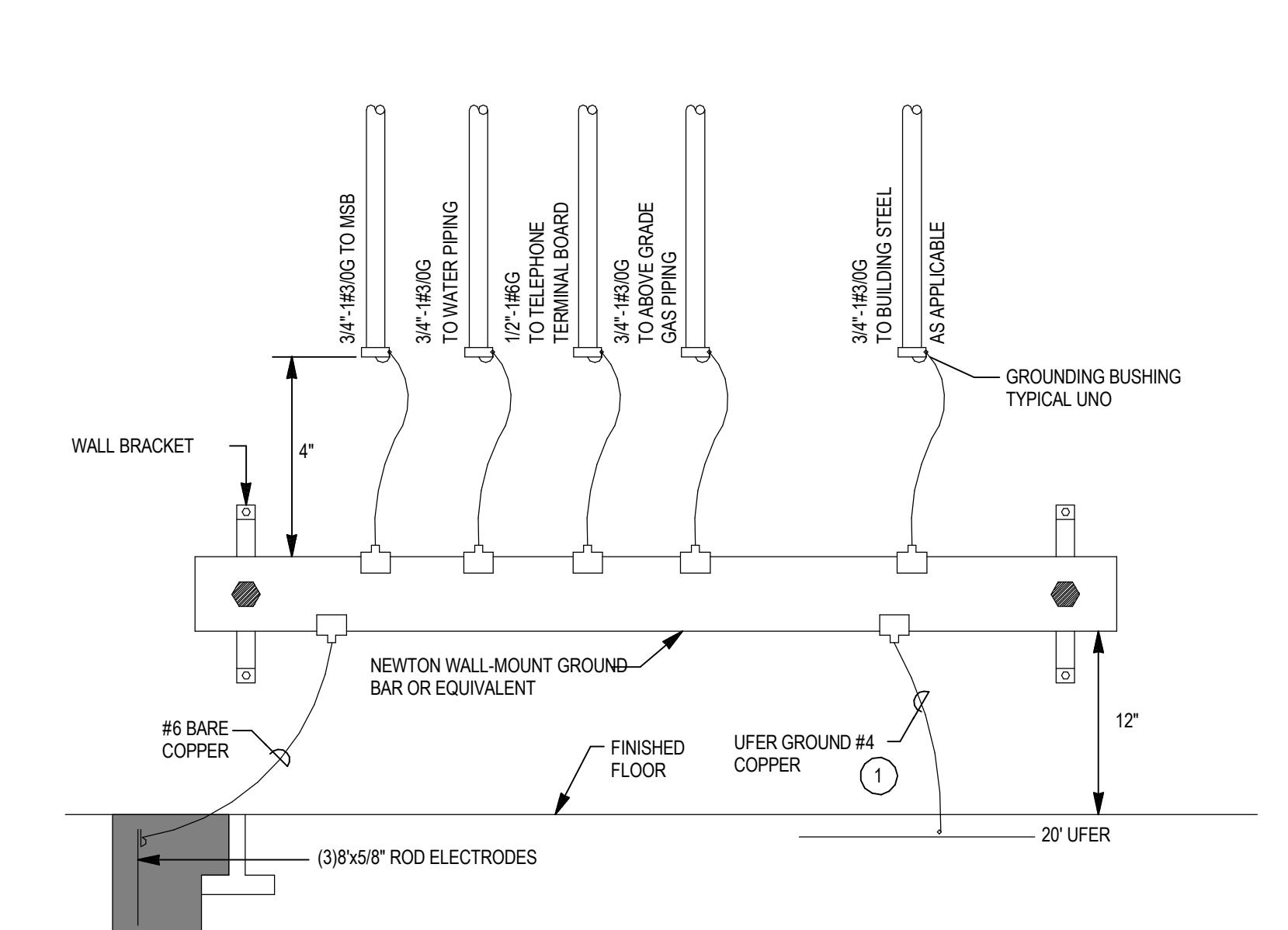
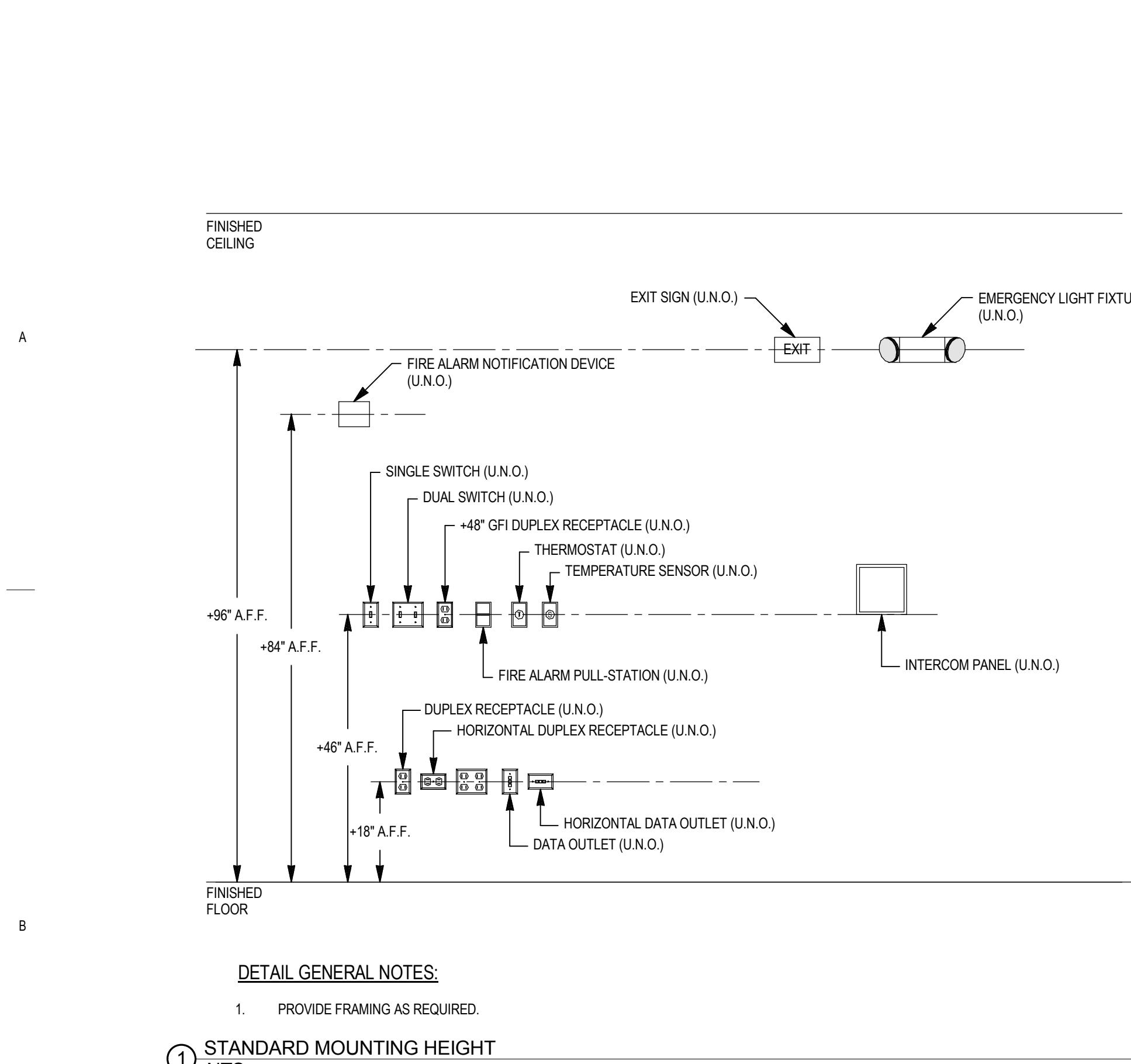
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SHEET NAME:

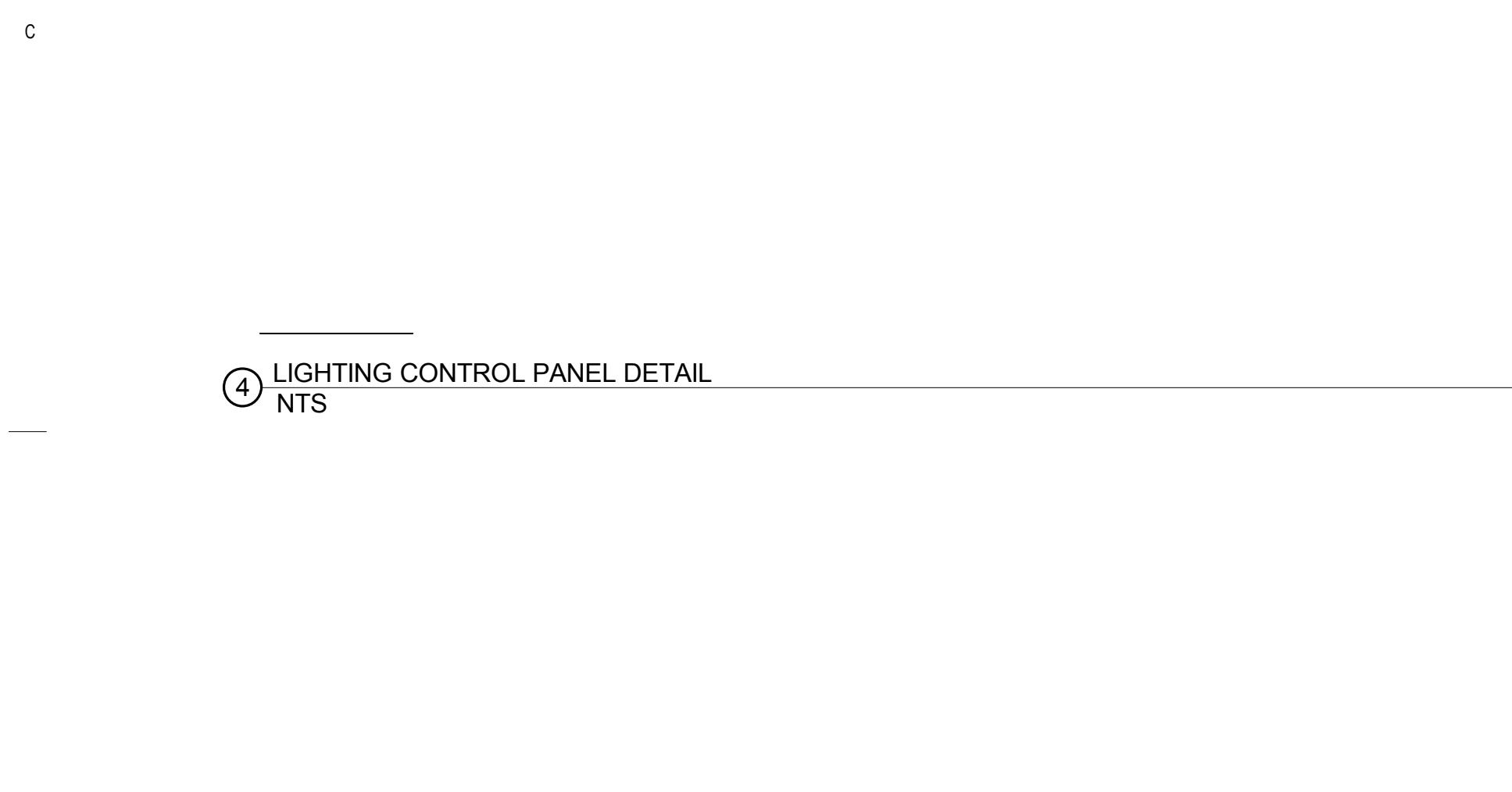
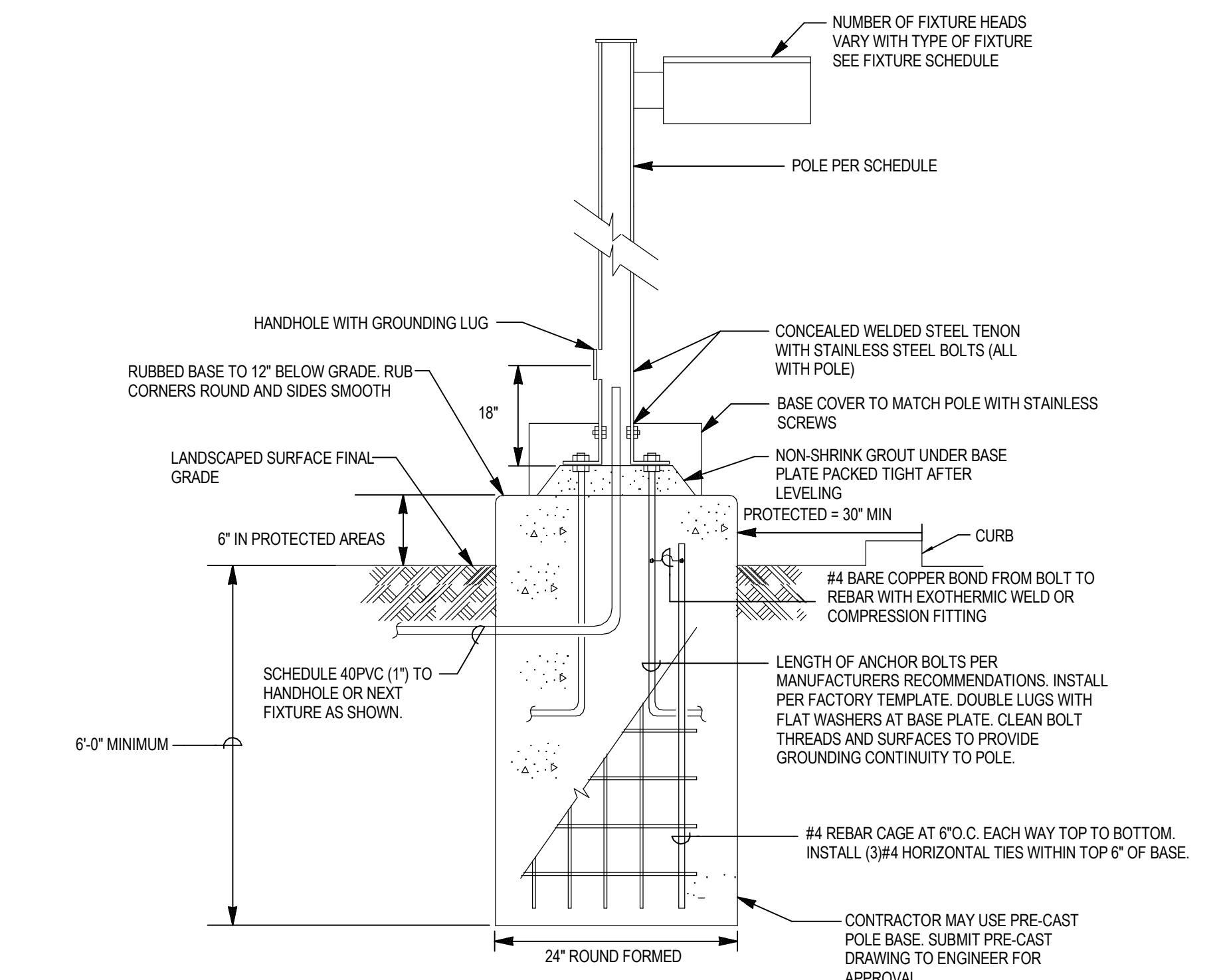
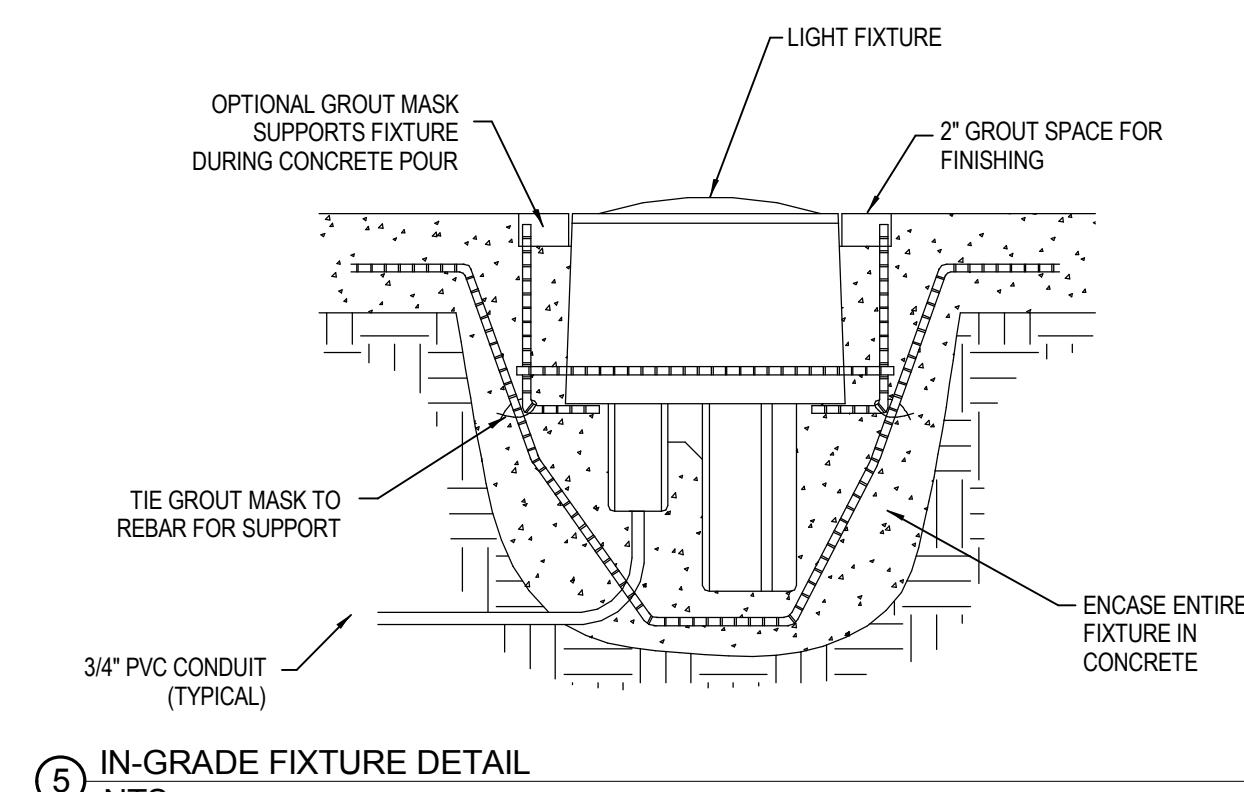
ELECTRICAL DETAILS

D

SHEET NUMBER:

E500

② GROUNDING BAR DETAIL NTS



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NOT FOR CONSTRUCTION
01-29-16

CONSULTANT:



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Boise, Idaho 83709
208.384.0585
www.musgrovepa.com

OVER 30 YEARS OF EXCELLENCE
project number: 15-061

PROJECT INFORMATION:



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8485 W Ustick Rd, Boise, ID 83704

C REVISIONS:

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PROJECT PHASE	75% CD'S
PROJECT NUMBER	15-27
PROJECT MANAGER	J. Chatfield
PROJECT ARCHITECT	J. Chatfield
DESIGN	J. Chatfield
DRAWN BY	RM/TM

SHEET NAME:

ELECTRICAL DETAILS

D SHEET NUMBER:

E502

12.07.15

