#XX	NUMBER	BUILDING CODE: 2021 ARKANSAS FIRE PREVENTION CODE (BA	SED ON 2021 IBC)	Α.	CC)
A.F.F.	ABOVE FINISHED FLOOR	RISK CATEGORY (2021 IBC TABLE 1604.5): II			1.	
ADD'L	ADDITIONAL					
ADJ	ADJACENT	GRAVITY LOADS (REFERENCE: 2021 IBC & ASCE 7-16):				
ARCH. B.F.F.	ARCHITECTURAL BELOW FINISHED	DEAD LOADS:	UNIFORM		2.	
0.1.1.	FLOOR	ROOF:	10 PSF		Ζ.	
BLDG.	BUILDING	HARDENED ROOM ROOF:	75 PSF			
BOT BTWN	BOTTOM BETWEEN	COLLATERAL ROOF:	5 PSF			
CJ	CONTROL/	FLOOR LIVE LOADS:	UNIFORM			
	CONSTRUCTION/	TYPICAL	100 PSF		3.	
CL	CONTRACTION JOINT CENTER LINE	ROOF LIVE LOADS:	20 PSF (NON-REDUCIBLE)			
CLR.	CLEAR			B.	SP	Έ
COL.	COLUMN	RAIN LOADS:	45 0 75 N // I		1.	
CONC. CONN.		15 MINUTE DURATION / 100 YR RETURN PERIOD 60 MINUTE DURATION / 100 YR RETURN PERIOD	i15 = 6.75 IN./H i60 = 3.60 IN./H		2.	
CONT.					۷.	
DBA	DEFORMED BAR	SNOW LOADS:			-	
DIA	ANCHOR DIAMETER	GROUND SNOW LOAD FLAT ROOF SNOW LOAD	Pg = 10 PSF Pf = 9 PSF		3.	
DTL	DETAIL	SLOPED ROOF SNOW LOAD	Ps = 9 PSF		4.	
E.F.	EACH FACE	SNOW LOAD IMPORTANCE FACTOR	ls = 1.00			
EA. ELEV.	EACH ELEVATION	SNOW EXPOSURE FACTOR THERMAL FACTOR	Ce = 1.0 Ct = 1.2		5.	
EW	EACH WAY				6.	
FF	FINISHED FLOOR	LATERAL LOADS (REFERENCE: 2021 IBC & ASCE 7-16):				
FLR FS	FLOOR FAR SIDE	WIND:			7.	
FTG	FOOTING	ULTIMATE WIND SPEED	Vult = 104 MPH			
G.C.	GENERAL	NOMINAL WIND SPEED	Vasd = 81 MPH	C.		
GA.	CONTRACTOR GAUGE	TERRAIN EXPOSURE INTERNAL PRESSURE COEFFICIENTS	C +/- 0.18		1.	
GALV.		COMPONENTS & CLADDING WIND LOAD	SEE SHEET S-002		2.	
HORIZ.	HORIZONTAL					
HSS	ROUND, SQUARE, OR RECTANGULAR	SEISMIC: SEISMIC IMPORTANCE FACTOR	le = 1.00		3.	
	STRUCTURAL	MAPPED SPECTRAL RESPONSE ACCELERATIONS	Ss = 0.187		3.	
	TUBING		S1 = 0.098			
ID JT.	INSIDE DIAMETER JOINT	SITE CLASS DESIGN SPECTRAL RESPONSE ACCELERATIONS	D SDS = 0.200		A	
JI. Kork	KIP (1,000 LBS)		SD3 = 0.200 SD1 = 0.156		4.	
KCJ	KEYED CONTROL	SEISMIC DESIGN CATEGORY	C			
KSI	JOINT KIPS PER SQUARE	SEISMIC FORCE RESISTING SYSTEM			5.	
NOI	NPS PER SQUARE	STRUCTURAL STEEL SYSTEMS NOT SPECIFICALLY DE	TAILED FOR SEISMIC RESISTANCE /	D.	GE	<u>N</u>
L	ANGLE	ORDINARY REINFORCED MASONRY SHEAR WALLS			1.	
LBS LF	POUNDS LINEAL FOOT	DESIGN BASE SHEAR	V = 0.066W / 0.100W		2.	
	. MANUFACTURER	SEISMIC RESPONSE COEFFICIENT	Cs = 0.066 / 0.100		Ζ.	
MATL.	MATERIAL	RESPONSE MODIFICATION COEFFICIENT	R = 3 / 2		3.	
MAX. MECH.	MAXIMUM MECHANICAL	ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE		4	
MIN.	MINIMUM	SYSTEMS AND COMPONENTS REQUIRING SPECIAL INSPECTION	N: SEE SPECIFICATION SECTION		4.	
MISC	MISCELLANEOUS	014533			5.	
N.T.S. NS	NOT TO SCALE NEAR SIDE				6.	
Ø	DIAMETER	STRUCTURAL DESIGN APPROACH:				
0.C.	ON CENTER					
OPP P.J.	OPPOSITE PANEL JOINT	THIS PROJECT CONSISTS OF THREE INDEPENDENT STRUCTUF	(ED:		7.	
P.J. PL	PANEL JOINT PLATE	THE GUARD POST IS A SINGLE STORY STEEL FRAME BUILDING	. THE ROOF CONSISTS OF A METAL			
PLBG	PLUMBING	DECK SUPPORTED BY STEEL WIDE FLANGE BEAMS THAT BEAF			8.	
PSF	POUNDS PER SQ FOOT	ROOF FRAMING IS SUPPORTED BY HSS COLUMNS. A SLAB ON BUILDING. STEEL MOMENT FRAMES PROVIDE LATERAL RESIST			^	
PSI	POUNDS PER SQ INCH	ENTIRE STRUCTURE IS SUPPORTED BY A SHALLOW FOUNDATI			9.	
REINF.	REINFORCEMENT					
REQ'D. SECT.	REQUIRED SECTION	THE HARDENED ROOM IS A SINGLE STORY REINFORCED MASC CONCRETE ROOF SUPPORTED BY METAL DECK AND STEEL BE				
SECT. SHT.	SHEET	LATERAL RESISTANCE FOR THE STRUCTURE. THE HARDENED				
SIM.	SIMILAR	250 MPH ULTIMATE WIND SPEED AND IS NOT AN ICC 500 SHELT		E.	SH	
SJ SPA.	SAWN JOINT SPACE	CANNOT BE IDENTIFIED AS SUCH.			1.	
SPA. SQ	SQUARE	THE CANOPY IS AN EXTERIOR STEEL FRAME STRUCTURE. THE	ROOF CONSISTS OF A METAL DECK			
STD.	STANDARD	SUPPORTED BY STEEL WIDE FLANGE BEAMS THAT BEAR ON W	/IDE FLANGE STEEL GIRDERS. ROOF			
T&B T.O.F.	TOP AND BOTTOM TOP OF FOOTING	FRAMING IS SUPPORTED BY HSS COLUMNS. STEEL MOMENT F RESISTANCE FOR THE STRUCTURE. THE ENTIRE STRUCTURE				
T.O.F. T.O.S.	TOP OF FOOTING TOP OF STEEL or TOP	FOUNDATION SYSTEM.	O OUT FURTED DT A OMALLUW			
	OF SLAB					
THRU TYP.						
U.N.O.	TYPICAL UNLESS NOTED					
	OTHERWISE					
VERT.						
OR V VSC	VERTICAL VERTICAL SLIDING				2. 3	
v 00	CLIP				3.	
W.W.R.	WELDED WIRE REINF.					
w/ \//D						
WP X/S-YYY	WORK POINT (SECTION/DETAIL "X"					
/vo-111	ON SHEET "S-YYY"				4.	
XX#						
ZRC	ZINC BASE PAINT				-	
					5.	

CTOR DELEGATED DESIGN COMPONENTS:

FOLLOWING ITEMS ARE NOTED AS A DELEGATED DESIGN COMPONENT AND SHALL BE DESIGNED BY THE TRACTOR. THE CONTRACTOR SHALL EMPLOY A SPECIALTY STRUCTURAL ENGINEER LICENSED IN THE STATE OF ANSAS TO DESIGN THE FOLLOWING ITEMS:

SHORING AND TEMPORARY STRUCTURES COLD-FORMED STEEL FRAMING

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR EACH DELEGATED DESIGN COMPONENT STRUCTURAL DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY THE SPECIALTY STRUCTURAL INEER. THE DRAWINGS SHALL BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR AND THE DESIGN INEER PRIOR TO SUBMITTAL. INCOMPLETE SHOP DRAWINGS AND SHOP DRAWINGS THAT HAVE NOT BEEN EWED BY THE CONTRACTOR AND THE SPECIALTY STRUCTURAL ENGINEER WILL BE RETURNED WITHOUT REVIEW HE ARCHITECT/ENGINEER.

CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL DELEGATED DESIGN COMPONENTS AND THEIR ESSORIES WITH OTHER TRADES TO AVOID CONFLICTS, e.g., FIRE SUPPRESSION SYSTEMS.

INSPECTIONS:

LIFIED INSPECTORS SHALL CONDUCT SPECIAL INSPECTIONS AND TESTS AND FURNISH REPORTS AS SPECIFIED IN TION 014533 AND IN ACCORDANCE WITH CHAPTER 17, INTERNATIONAL BUILDING CODE CONTRACTOR SHALL COORDINATE THE SPECIAL INSPECTIONS AND TESTING SERVICES WITH THE PROGRESS OF WORK, PROVIDE THE APPROPRIATE DOCUMENTATION AND PERFORM OTHER TASKS AS SPECIFIED IN SECTION

STRUCTION THAT REQUIRES CONTINUOUS INSPECTION PER SECTION 014533 CAN NOT PROGRESS WITHOUT ECTORS PRESENT

CONTRACTOR IS RESPONSIBLE FOR ALL OTHER INSPECTIONS OR TESTS IN THE SPECIFICATIONS NOT LISTED IN SCHEDULE OF SPECIAL INSPECTION SERVICES IN SECTION 014533.

CONTRACTOR IS RESPONSIBLE FOR THE COST OF REPAIR, REINSPECTION AND RETESTING FOR ITEMS THAT DO PASS THE INSPECTIONS OR TESTS.

CIAL INSPECTION SERVICES DO NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR COMPLIANCE WITH ER CONSTRUCTION DOCUMENT REQUIREMENTS OR REGULATORY REQUIREMENTS.

CONTRACTOR IS RESPONSIBLE FOR THE COST OF DEMOLITION. RECONSTRUCTION. INSPECTION AND TESTING OF WORK COMPLETED WITHOUT INSPECTION AND TESTING AS SPECIFIED IN SECTION 014533.

Y DURING CONSTRUCTION, SHORING, & TEMPORARY STRUCTURES:

MANENT STABILITY OF THE BUILDING AND COMPONENTS IS NOT PROVIDED UNTIL ALL THE STRUCTURAL ELEMENTS INSTALLED AS SHOWN ON THE CONTRACT DRAWINGS.

VIDE STABILITY TO ALL NON-SELF-SUPPORTING ELEMENTS UNTIL PERMANENT STRUCTURAL SUPPORTS ARE ALLED. PROVIDE BRACING, SHORING, AND/OR TEMPORARY STRUCTURES AS REQUIRED IN ORDER TO SATISFY THE TRACT REQUIREMENTS.

VIDE ALL BRACING NECESSARY TO STABILIZE THE BUILDING DURING THE ERECTION PROCESS. BRACING SHALL BE GNED AND INSTALLED SUCH THAT IT DOES NOT TWIST OR DISTORT MEMBERS. BRACING SHALL BE DESIGNED FOR DS AS REQUIRED BY APPLICABLE CODES. THE DESIGN OF THE BRACING SHALL TAKE INTO ACCOUNT FORCES DUE HERMAL EXPANSION AND CONTRACTION OF THE BUILDING FRAME AND BRACES

HOR RODS FOR STEEL COLUMNS ARE NOT DESIGNED TO STABILIZE STRUCTURE BY PROVIDING FIXITY OF THE JMN BASE. PROVIDE TEMPORARY BRACING FOR STABILITY DURING THE ERECTION PHASE UNTIL ALL LATERAL RESISTING ELEMENTS ARE IN PLACE AND WELDING AND/OR BOLTING INSPECTIONS ARE COMPLETE. IPLY WITH ALL APPLICABLE OSHA SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION.

REQUIREMENTS:

JCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH DRAWINGS RELATING TO OTHER TRADES. CHECK AND RDINATE DIMENSIONS, CLEARANCES, OPENINGS, PIPE SLEEVES, CURBS, ETC. WITH THE WORK OF OTHER TRADES. K NOT INDICATED ON A PART OF THE DRAWING BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT RESPONDING PLACES SHALL BE REPEATED.

AILS DESIGNATED AS "TYPICAL" APPLY TO ALL AREAS WHERE THE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IE DETAIL.

PLANS AND DETAILS IN THE CONTRACT DRAWINGS SHALL NOT BE REVISED WITHOUT PRIOR APPROVAL BY THE HITECT/ENGINEER.

DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS. SECTIONS AND DETAILS.

CIPAL OPENINGS THROUGH THE FRAMING ARE SHOWN ON THESE DRAWINGS. EXAMINE THE DRAWINGS FOR UIRED OPENINGS AND PROVIDE FOR ALL OPENINGS WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT FY SIZE AND LOCATION OF ALL OPENINGS WITH ALL SUB-CONTRACTORS. PIPE SLEEVES THROUGH THE DECK WILL REQUIRE ADDITIONAL FRAMING UNLESS THE DIAMETER EXCEEDS 10".

CING OF STRUCTURAL MEMBERS WHERE NOT DETAILED IS PROHIBITED WITHOUT PRIOR APPROVAL OF HITECT/ENGINEER. IF APPROVED. ADDITIONAL TESTING AND INSPECTION SHALL BE AS SPECIFIED BY THE HITECT/ENGINEER AND PAID FOR BY THE CONTRACTOR

HANGE IN SIZE OR POSITION OF THE STRUCTURAL ELEMENTS SHALL BE MADE: HOLES, SLOTS, CUTS, ETC., ARE PERMITTED THROUGH ANY MEMBER UNLESS THEY ARE DETAILED ON THE APPROVED SHOP DRAWINGS. JRE THAT ALL CONSTRUCTION LOADS DO NOT EXCEED THE DESIGN LIVE LOADS INDICATED ON THE STRUCTURAL WINGS AND THAT THESE LOADS ARE NOT PUT ON THE STRUCTURAL MEMBERS PRIOR TO THE TIME THAT THE CRETE REACHES THE FULL DESIGN STRENGTH AND ALL FRAMING MEMBERS AND THEIR CONNECTIONS ARE IN . THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE ADEQUACY OF SLABS ON GRADE FOR PORTING ALL CONSTRUCTION EQUIPMENT. INCLUDING AREAL LIFTS.

AWINGS:

MIT SHOP DRAWINGS FOR REVIEW BY THE ARCHITECT/ENGINEER FOR THE FOLLOWING ITEMS. REFER TO PROJECT CIFICATIONS FOR ADDITIONAL REQUIREMENTS:

- CONCRETE REINFORCING STEEL INDICATE ALL REINFORCING STEEL IN FOUNDATIONS AND SLABS ON GRADE
- INDICATE ALL HORIZONTAL, VERTICAL, AND TIE REINFORCING
- INDICATE TYPE AND LOCATION OF ALL REINFORCING STEEL SPLICES
- CONCRETE MASONRY
- INDICATE VERTICAL REINFORCING LOCATION AND METHOD OF SPLICE.
- INDICATE LOCATION OF CORES FILLED WITH GROUT.
- INDICATE BOND BEAM REINFORCING LOCATIONS, LENGTH, AND SPLICES.
- STRUCTURAL STEEL
- METAL DECKING

COLD-FORMED STEEL FRAMING MIT OTHER SHOP DRAWINGS FOR REVIEW BY ARCHITECT/ENGINEER AS REQUIRED BY PROJECT SPECIFICATIONS. AILS FOR SOME SPECIAL CONDITIONS WILL NEED TO BE DEVELOPED BY THE DETAILER DURING THE DETAILING CESS. FINAL REVIEW OF THE DETAILS WILL BE AT THE DISCRETION OF THE ENGINEER OF RECORD. NO ADDITIONAL RGES FOR MAKING CORRECTIONS, CHANGES, OR ADDITIONS TO THE SHOP DRAWINGS ("RE-DETAILING COST") WILL LLOWED. CONTRACTOR SHALL MAKE PROVISIONS FOR DETAILING CORRECTIONS AND MISCELLANEOUS MATERIAL IE BID PRICE. ADJUSTMENTS TO THE CONTRACT WILL ONLY BE MADE FOR CHANGE ORDERS APPROVED PRIOR TO COMMENCEMENT OF ANY ACTION ON THE CHANGES.

SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR / CONSTRUCTION MANAGER OR TO SUBMITTAL. INCOMPLETE SHOP DRAWINGS AND SHOP DRAWINGS THAT HAVE NOT BEEN REVIEWED BY THE TRACTOR WILL BE RETURNED WITHOUT REVIEW BY THE ARCHITECT/ENGINEER.

FY AND COORDINATE ALL DIMENSIONS AND ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS WITH

HITECTURAL DRAWINGS. IN CASE OF CONFLICTS, THE ARCHITECT/ENGINEER IS TO BE NOTIFIED AND WILL PROVIDE THE CORRECT ELEVATIONS AND DIMENSIONS FOR WHICH SHALL BE INCORPORATED INTO THE SHOP DRAWINGS AT NO EXTRA COST.

F. EARTHWORK:

- UES (PROJECT NO. A24184.00054).
- a. CONTINUOUS FOOTINGS:

1300 East 6th Street Little Rock, AR 72202 501.372.2900 cromwell.com 1. FOUNDATION DESIGN IS BASED ON SOIL INVESTIGATION AND REPORT BY GRUBBS, HOSKYN, BARTON & WYATT, LLC, dba 2. FOUNDATION DESIGN IS BASED ON THE FOLLOWING MINIMUM NET ALLOWABLE BEARING PRESSURE: Project 1.5 KSF b. INDIVIDUAL PAD FOOTINGS: 2.0 KSF ALL FOUNDATION BEARING CONDITIONS SHALL BE VERIFIED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO AEROJET CONSTRUCTION 3. BOTTOM OF FOUNDATION ELEVATIONS ARE GIVEN FOR BIDDING PURPOSES ONLY. ALL FOUNDATIONS SHALL BE FOUNDED A MINIMUM OF 2 FEET BELOW ADJACENT GRADE IN PROPERLY COMPACTED FILL. New Guard 4. THE SITE SHALL BE STRIPPED A MINIMUM OF 6", PROOF ROLLED, COMPACTED FILL PLACED, AND EXCAVATED AS REQUIRED FOR FOUNDATION. SEE SPECIFICATION DIVISION 31 FOR EARTHWORK REQUIREMENTS. 5. REMOVE 2 FEET OF EXISTING SUB GRADE MATERIAL UNDER THE BUILDING (EXTENDING 5 FEET BEYOND THE BUILDING Post - 2 PERIMETER) IN AREAS IDENTIFIED TO BE SOFT, THAT EXHIBIT PUMPING OR ARE OTHERWISE UNSUITABLE AFTER PROOF ROLLING AND BACKFILL AS PER SPECIFICATION DIVISION 31, EARTHWORK, USING SPECIFIED BORROW MATERIAL THE SILTY FINE SAND AND FINE SANDY SILT ARE HIGHLY MOISTURE SENSITIVE AND WILL EXHIBIT REDUCED STABILITY WHEN SATURATED. THOUGH SITE CONDITIONS WILL VARY SIGNIFICANTLY WITH SEASONAL PRECIPITATION AND SURFACE RUNOFF, SITE GRADING OPERATIONS WILL BE SIGNIFICANTLY EASIER TO PERFORM DURING DRY SEASONS OF THE YEAR. POSITIVE SURFACE AND SUBSURFACE DRAINAGE SHOULD BE ESTABLISHED AT THE START OF CONSTRUCTION. MAINTAINED DURING THE WORK, AND INCORPORATED INTO FINAL DESIGN TO PREVENT SURFACE WATER PONDING AND SUBSEQUENT SATURATION OF SUBGRADE SOILS. DENSITY AND WATER CONTENT OF ALL EARTHWORK SHOULD BE MAINTAINED UNTIL THE FOUNDATION AND PAVEMENTS ARE COMPLETED. SUBGRADE SOILS THAT BECOME SATURATED BY PONDING WATER OR RUNOFF SHOULD BE EXCAVATED TO SUITABLE MATERIAL TAKE ADEQUATE MEASURES TO ALLOW FOR WORKING SURFACE DURING CONSTRUCTION OF FOUNDATIONS AND SLAB-ON-GRADE, SUCH AS GRAVEL BED OF ADEQUATE DEPTH, ETC. 8. PROVIDE EARTH RETENTION SYSTEMS AND TEMPORARY BRACING OR SHORING (INCLUDING UNDERPINNING) AS REQUIRED TO SUPPORT EXCAVATIONS AND TO PROTECT EXISTING STRUCTURES DURING CONSTRUCTION. TRENCHING AND EXCAVATIONS SHALL MEET ALL OSHA REQUIREMENTS. 9. WATER ACCUMULATION IS ANTICIPATED IN FOOTING EXCAVATIONS; PROVIDE DRAINAGE OF EXCAVATIONS FROM SURFACE WATER AND SEEPAGE. EXCAVATIONS SHALL BE DRAINED OR PUMPED DRY BEFORE POURING CONCRETE. 10. PROTECT ALL UTILITY LINES, ETC. ENCOUNTERED DURING EXCAVATION AND BACKFILLING. 11. NO BACKFILLING SHALL BE DONE AGAINST FOUNDATION WALLS UNTIL CONCRETE HAS ATTAINED ITS FULL DESIGN STRENGTH. BEFORE BACKFILLING, PROVIDE BRACING FOR WALLS SUSTAINING MORE THAN 3'-0" OF EARTH PRESSURE. Design Phase THIS BRACING SHALL REMAIN IN PLACE UNTIL SLAB ON GRADE HAS BEEN PLACED AND CURED **CONSTRUCTION** 12. IN NO CASE SHALL BULLDOZERS OR OTHER HEAVY EQUIPMENT BE PERMITTED CLOSER THAN 8'-0" FROM ANY FOUNDATION WALL DOCUMENTS Revisions THE DESIGN OF THE CONCRETE STRUCTURE IS BASED ON ACI318-19 BUILDING CODE REQUIREMENTS FOR STRUCTURAL Date Description CONCRETE. 2. CAST IN PLACE CONCRETE SHALL HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS (fc): COMPONENT COMPRESSIVE STRENGTH FOOTINGS 3500 PSI INTERIOR SLABS ON GRADE 3500 PSI SLABS ON STEEL DECK 3500 PSI SEE SPECIFICATION SECTION 033000 FOR ADDITIONAL MIX DESIGN REQUIREMENTS 3. ALL DEFORMED REINFORCING STEEL SHALL BE A615 GRADE 60 STEEL, U.N.O. 4. ALL WELDED WIRE REINFORCING STEEL SHALL BE A1064. ALL WELDED WIRE REINFORCEMENT SHALL BE PROVIDED IN SHEETS. 5. ALL CONCRETE WORK SHALL CONFORM TO THE LATEST ACI CODE AND ACI DETAILING MANUAL MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE: CONCRETE CAST AGAINST EARTH: CONCRETE EXPOSED TO EARTH OR WEATHER: #5 BARS AND SMALLER: $1\frac{1}{2}$ Stamp #6 BARS AND LARGER: SLABS, WALLS, AND JOISTS: BEAMS AND COLUMNS: ALL CONCRETE CONSTRUCTION AND MATERIALS SHALL BE PLACED ACCORDING TO ACI 117 TOLERANCES. CROMWELL 8. ALL CONCRETE REINFORCING STEEL SHALL BE SPLICED USING TENSION SPLICES: ARCHITECTS/ a. UNLESS NOTED OTHERWISE, LAP SPLICE ALL CONCRETE REINFORCING STEEL: ENGINEERS #5 BARS #6 AND SMALLER: **48 BAR DIAMETERS** BARS #7 AND LARGER: **60 BAR DIAMETERS** WELDED WIRE REINFORCING: ONE MESH PLUS 2" b. ONLY APPROVED MECHANICAL SPLICE SYSTEMS SHALL BE USED TO PROVIDE TENSION SPLICES. MECHANICAL SPLICES SHALL DEVELOP 125% OF THE YIELD STRENGTH OF THE BAR. 9. ALL CONCRETE REINFORCING SHALL BE SPLICED WHERE DETAILED ON THE DRAWINGS. UNLESS NOTED OTHERWISE: ARKANSAS LAP GRADE BEAM TOP REINFORCEMENT AT CENTER OF SPAN. boot tolla b. LAP GRADE BEAM BOTTOM REINFORCEMENT AT SUPPORT. ENGINEER c. STAGGER ALL TENSION LAP SPLICE LOCATIONS * * * 10. TERMINATE CONTINUOUS BARS AT NON-CONTINUOUS END WITH STANDARD HOOKS. No. 9668 11. PROVIDE CORNER BARS IN ALL CONCRETE MEMBERS AT INTERSECTIONS. MATCH SIZE AND SPACING OF HORIZONTAL BARS IN THOSE MEMBERS. 07-17-2024 12. ALL REINFORCING STEEL SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. ADDITIONAL BARS OR STIRRUPS SHALL BE PROVIDED AS REQUIRED TO FURNISH SUPPORT FOR ALL REINFORCING STEEL 13. PROVIDE SUPPORT FOR ALL CONCRETE REINFORCING (INCLUDING SLABS ON GRADE AND ELEVATED COMPOSITE SLABS) . CROMWELL ARCHITECTS ENGINEERS, INC. AS REQUIRED TO MAINTAIN CLEAR COVER DIMENSIONS. SPACING SHALL NOT EXCEED 3'-0" **ALL RIGHTS RESERVED** 14. SUBMIT DRAWINGS SHOWING INTENDED POURING SEQUENCE AND LOCATION OF CONSTRUCTION JOINTS TO THE ARCHITECT/ENGINEER FOR APPROVAL. 2. THIS SHEET DESIGNED FOR COLOR PRINTING. CRITICAL INFORMATION MAY BE LOST WITH 15. HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL **BLACK AND WHITE PRINTING.** DRAWINGS. HORIZONTAL OR NEAR HORIZONTAL JOINTS SHALL BE PREPARED BY ROUGHENING THE SURFACE IN AN APPROVED MANNER SO THAT THE AGGREGATE IS EXPOSED UNIFORMLY, LEAVING NO LAITANCE, LOOSENED PARTICLES, oject Number – OR DAMAGED CONCRETE. 2024-052 Issue Date 16. PIPES OR CONDUITS PLACED IN FOUNDATIONS AND SLABS SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS ON 07-17-2024 CENTERS. PIPES AND CONDUITS PLACED IN SLAB SHALL NOT HAVE AN OUTSIDE DIAMETER LARGER THAN 1/3 OF SLAB Sheet Title THICKNESS. ALUMINUM CONDUITS SHALL NOT BE PLACED IN CONCRETE. NO CONDUIT SHALL BE PLACED WITHIN 24" OF COLUMN FACE. STRUCTURAL DESIGN 17. LOCATION OF SLOTTED INSERTS, WELD PLATES AND ALL OTHER ITEMS TO BE EMBEDDED IN CONCRETE SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. **CRITERIA AND** GENERAL NOTES 19. VERIFY DIMENSIONS AND LOCATIONS OF ALL OPENINGS, PIPE SLEEVE CURBS, ETC., AS REQUIRED BY OTHER TRADES BEFORE CONCRETE IS PLACED. 20. AGGREGATE FOR CONCRETE SHALL NOT CONTAIN LIGNITE, STEEL, OR OTHER MATERIALS THAT MAY BE DETRIMENTAL TO Sheet Number THE CONCRETE. ALKALI-SILICA REACTIVE (ASR) AGGREGATES ARE NOT ALLOWED. 21. MAXIMUM TOLERANCE FOR SLAB EDGES IS 1/2" +/- EXCEPT WHERE TIGHTER TOLERANCE IS REQUIRED FOR ARCHITECTURAL REASONS. 22. CONCRETE SHALL BE PLACED AND CURED IN ACCORDANCE WITH THE SPECIFICATIONS. WHEN THE AIR TEMPERATURE IS OVER 85 DEGREES FOLLOW THE RECOMMENDATIONS OF ACI 305R. WHEN THE AIR TEMPERATURE IS BELOW 40 DEGREES

CONCRETE AND REINFORCING STEEL:

- 18. REINFORCING BARS SHALL NOT BE WELDED

- FOLLOW THE RECOMMENDATIONS OF ACI 306R.
- AWS D1.1. STUDS AND DEFORMED BAR ANCHORS SHALL NOT BE FILLET WELDED.

23. STUDS AND DEFORMED BAR ANCHORS SHALL BE WELDED USING A WELDING GUN IN ACCORDANCE WITH CHAPTER 7 OF

H.	 MASONRY WALLS: 1. THE DESIGN OF THE MASONRY WALLS IS BASED ON TMS 402-16 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES. 2. SPECIFIED DESIGN COMPRESSIVE STRENGTH: fm = 2,000 PSI. PER THE UNIT STRENGTH METHOD. 3. CONCRETE BLOCK SHALL CONFORM TO ASTM C-90, NORMALWEIGHT UNITS. 4. MORTAR SHALL CONFORM TO ASTM C-270. a. TYPE S: LOAD-BEARING WALL 5. GROUT SHALL CONFORM TO ASTM C476. GROUT SLUMP SHALL BE BETWEEN 9" AND 11". MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL 6. PROVIDE TEMPORARY BRACING FOR ALL MASONRY WALLS UNTIL PERMANENT LATERAL SUPPORT IS COMPLETE. 7. PIPES, CONDUIT, AND OTHER ITEMS SHALL NOT BE PLACED IN MASONRY CELLS WITH VERTICAL OR HORIZONTAL REINFORCING. 8. FILL ALL BOND BEAMS, CELLS CONTAINING VERTICAL BARS, AND CELLS CONTAINING EXPANSION ANCHORS, STEEL EMBEDS, OR OTHER ANCHOR CONSOLIDATED AND RECONSOLIDATED BY USE OF A MECHANICAL VIBRATOR. 9. DO NOT PLACE LOADS ON BOND BEAMS OR MASONRY CELLS FILLED WITH GROUT UNTIL THE GROUT HAS CURED FOR A MINIMUM OF 3 DAYS. 10. MASONRY CONSTRUCTION SHALL NOT PROGRESS WITHOUT PERIODIC AND CONTINUOUS INSPECTION AND TESTING AS SPECIFIED IN THE SCHE CONTRACTOR SHALL BE RESPONSIBLE FOR COST OF DEMOLITION, RECONSTRUCTION, INSPECTION AND TESTING OF ANY MASONRY CONSTRUCTION, TESTING.
	STRUCTURAL STEEL: 1 THE DESIGN OP STRUCTURAL STEEL IS BASED ON AISC 360-16, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS. 2. ALL STEEL MEMBERS SHALL CONFORM TO: SECTION ASTM STANDARD YIELD STRENGTH WIDE FLANGE A992 50 KSI ANGLES, PLATES, AND BARS A572 50 KSI RECTANGULAR AND SQUARE HSS A500 GRADE C OR A1085 50 KSI 3. ALL BOLTED CONNECTIONS FOR STRUCTURAL STEEL TO STEEL SHALL BE ASTIN F5125, GRADE F182 BC WIST-OFF' STYLE TENSION CONTROL DO NOTED OTHERWISE. 4. MELIDING ELECTRODES FOR STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO AWS A5.1 GRADE E-70 BARE ELECTRODES. 5. COLUMA MOHOR RODS INLO CONFORM TO ASTM F1536 GRADE 36. ANCHOR RODS SHALL HAVE A PLATE WASHER PER AISC TABLE 14.1 AND OL 6. PLACE AND SECURE ANCHOR RODS IN FOOTING EXCAVATION PRIOR TO POURING CONCRETE FOR FOOTING. DO NOT PLACE ANCHOR RODS INV 7. PROVIDE LEVELING NUTS OR SHIM PACKS AS REQUIRED TO LEVEL COLUMN BASE PLATES. IF SHIM PACKS ARE USED, ENCASE SHIM PACKS WIT PLACING GROUT UNDER BASE PLATE. 8. CONNECTION S SHALL BE DETALED AS INDICATED IN THE DRAWINGS, UNO. 9. THYPICAL STEEL BEAM AND GIRDER TO COLUMN CONNECTIONS. BETALL 38-501. 1. TYPICAL STEEL BEAM AND GIRDER TO COLUMN CONNECTIONS. BETALL 38-501. 2. TYPICAL STEEL BEAMTO-DEBAK C
J. К.	 STEEL ROOF DECKING: THE DESIGN, FABRICATION, AND ERECTION OF STEEL DECKING SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF THE LATEST SDI STANDA a. STEEL ROOF DECK: ANSI/SDI RD-2017, STANDARD FOR STEEL ROOF DECK. STEEL DECKING FOR THE CONSTRUCTION OF ROOF DIAPHRAGMS IS BASED ON THE SDI DIAPHRAGM DESIGN MANUAL (FOURTH EDITION) AND AI DESIGN OF PROFILED STEEL DIAPHRAGM PANELS. STEEL DECK SHALL BE ATTACHED TO SUPPORTING STEEL AS INDICATED ON: a. ROOF DECK: DETAIL 1/S-501. ROOF DECK AND FORM DECK ENDS SHALL BE BUTTED OR LAPPED OVER SUPPORTS. DO NOT SUPPORT ROOFTOP EQUIPMENT OR EQUIPMENT CURBS DIRECTLY FROM ROOF DECK. ATTACH CURBS DIRECTLY TO STRUCTURAL STEEL IN FLUTES OF DECK BETWEEN STRUCTURAL STEEL SUPPORTS AND CURBS. PROVIDE SUPPORT FOR METAL DECK AROUND COLUMNS, SCREED PLATES AROUND OPENINGS, AND EDGES OF SLABS. PROVIDE SUPPORT FOR METAL DECK AROUND COLUMNS, SCREED PLATES AROUND OPENINGS, AND EDGES OF SLABS. PROVIDE MINIMUM 3/16" X 8" BENT PLATES AT HIPS, VALLEYS, AND RIDGES AS REQUIRED TO SUPPORT AND CONNECT DECK TO STRUCTURE. SUSPENDED CEILINGS, LIGHT FIXTURES, EQUIPMENT, DUCTS, OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE STEEL ROOF DECK. COLD-FORMED STEEL FRAMING: THE DESIGN OF THE COLD FORMED STEEL FRAMING SHALL BE BASED ON AISI S100-16 w/S2-20, NORTH AMERICAN SPECIFICATION FOR THE DESIMEMENTS.
L.	 MEMBERS. COLD-FORMED STEEL STUDS SHALL CONFORM TO THE REQUIREMENTS ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. EXTERIOR COL MINIMUM OF 18 GAUGE. LIMIT DEFLECTION OF STUDS TO L/240. EXTERIOR NON LOAD-BEARING STEEL STUDS SHALL BE CONNECTED TO THE BUILDING FRAME WITH RIGID CLIPS OR VERTICAL SLIDE CLIPS AS S ALL MATERIAL SHALL BE COLOR CODED TO INDICATE THE GAUGE OF THE MATERIAL. POST-INSTALLED ANCHORS IN CONCRETE OR MASONRY: POST-INSTALLED ANCHORS (MECHANICAL OR ADHESIVE) SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE C THE ENGINEER–OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS BE BUILDING CODE COMPLIANT, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND INSPECTED PER THE AI REPORT. SEE SPECIFICATIONS SECTIONS 033000 AND 042900 FOR ADDITIONAL INFORMATION.

ALL BE 2500 PSI.

HORS WITH COARSE GROUT. ALL GROUT SHALL BE

HEDULE OF SPECIAL INSPECTIONS. THE

RUCTED WITHOUT THE SPECIFIED INSPECTIONS AND

BOLT ASSEMBLIES (SHOP AND FIELD), UNLESS

D ONE HEAVY HEX NUT AT THE TOP AND ONE HEAVY

WET CONCRETE. ITH 1" MIN COVER OF NON-SHRINK GROUT WHEN

DTIFIED FOR GUIDANCE. S INDICATED IN THE DRAWINGS. THE DESIGN SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL

ITH ANYTHING SHOWN IN THESE DRAWINGS THE BEFORE PROCEEDING WITH THE WORK. BE 3/4", AND THE MINIMUM CONNECTION SHALL BE

E DISTANCE TO CENTER OF BOLT HOLE, SPACING

LATE THICKNESS TO BE 1/2" OR FLANGE

WELD, U.N.O. , ETC. AND ALL OTHER FOREIGN MATERIALS.

IED AND PREPPED ACCORDING TO ASTM D6386. ALL BE INSPECTED AND TESTED AS NOTED IN THE

DARDS AND SPECIFICATIONS:

AISI S310, NORTH AMERICAN STANDARD FOR THE

STEEL SUPPORTS OR PROVIDE TREATED BLOCKING

ESIGN OF COLD-FORMED STEEL STRUCTURAL

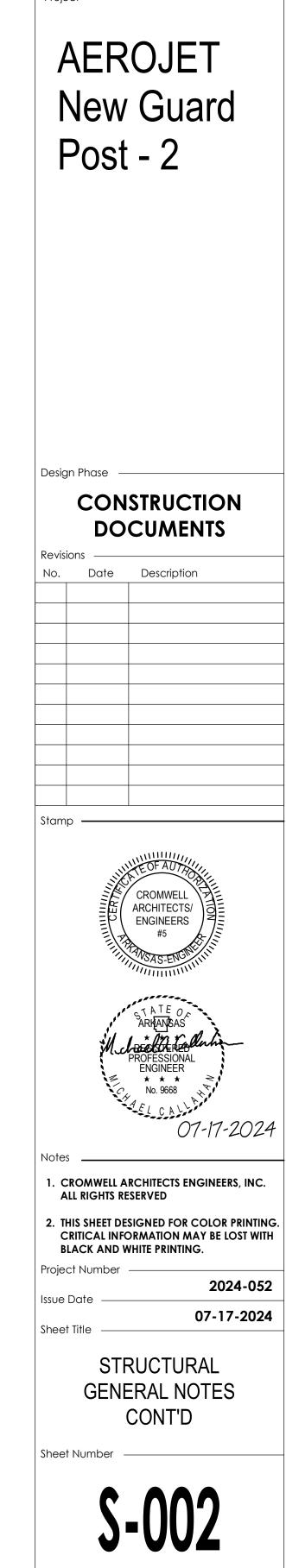
COLD-FORMED STEEL WALL STUDS SHALL A

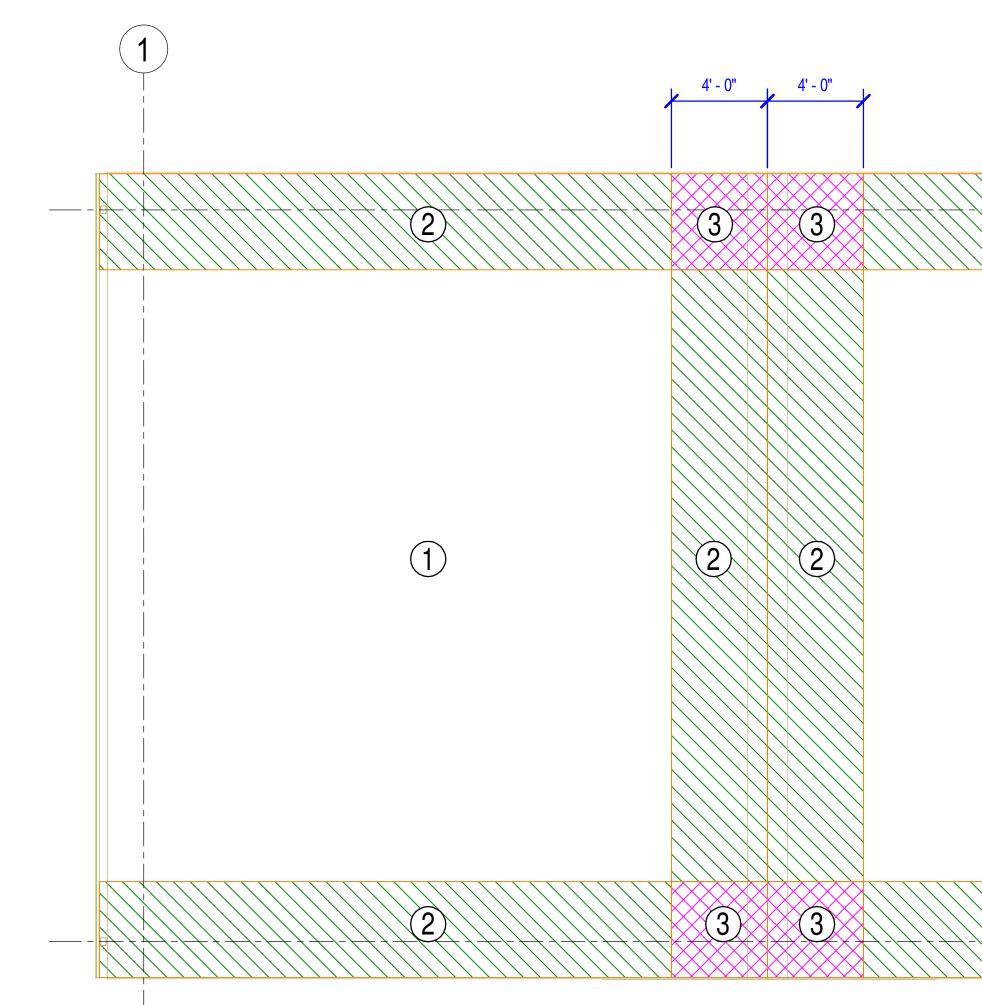
S SHOWN ON THE STRUCTURAL DETAILS.

E CONTRACTOR SHALL OBTAIN APPROVAL FROM RS OR DOWELS. POST-INSTALLED ANCHORS SHALL E APPLICABLE ICC-ES OR IAPMO UES EVALUATION

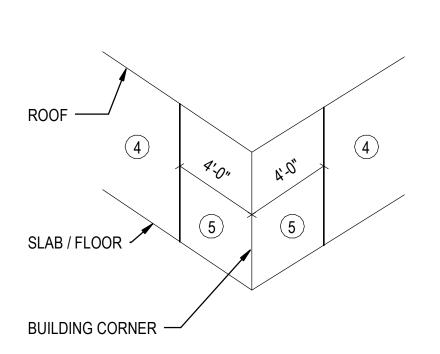
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Project





1 CANOPY COMPONENTS AND CLADDING WIND PRESSURE PLAN



	TRIBUT	ARY AREA (SQ	. FT.)
ZONE	10	50	100
4	-26/+24 PSF	-23/+21 PSF	-22/+20 PSF
5	-31/+24 PSF	-27/+21 PSF	-25/+20 PSF



- NOTES: 1. ULTIMATE WIND SPEED: 104 MPH 2. NOMINAL WIND SPEED: 81 MPH 3. WIND PRESSURES ARE BASED ON ASCE 7-16 STRENGTH DESIGN (ULTIMATE). 4. POSITIVE / NEGATIVE VALUES INDICATE FORCES ARE ACTING TOWARDS / AWAY
- RESPECTIVELY. COMPONENTS SUBJECTED TO PARAPETWIND FORCE ON BOTH SIDI FOR CUMULATIVE FORCES.
- SERVICE LEVEL LOADS MAY BE CALCULATED BY MULTIPLYING THE NUMBERS ABOVE BY 0.6.

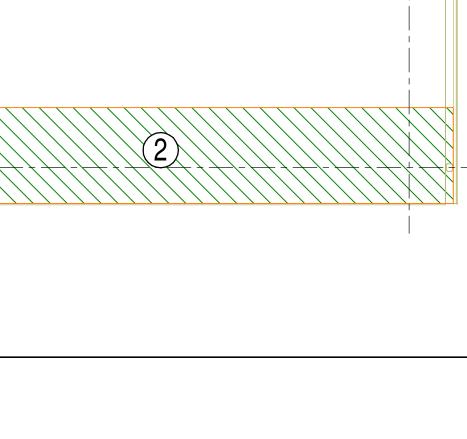
COMPONENTS AND CLADDING WALL WIND PRESSURES

COMPONENTS AND CLADDING ROOF WIND PRESSURES

VARDS / AWAY FROM ELEMENT,
DES (e.g. WALL PANELS) SHALL BE DESIGNED

	TRIBUTARY AREA (SQ. FT.)								
	10 50 100								
1	-47/+16 PSF	-29/+16 PSF	-16/+16 PSF						
2	-69/+16 PSF	-47/+16 PSF	-38/+16 PSF						
3	-82/+16 PSF	-55/+16 PSF	-43/+16 PSF						

GROSS WIND UPLIFT
(STRENGTH DESIGN)



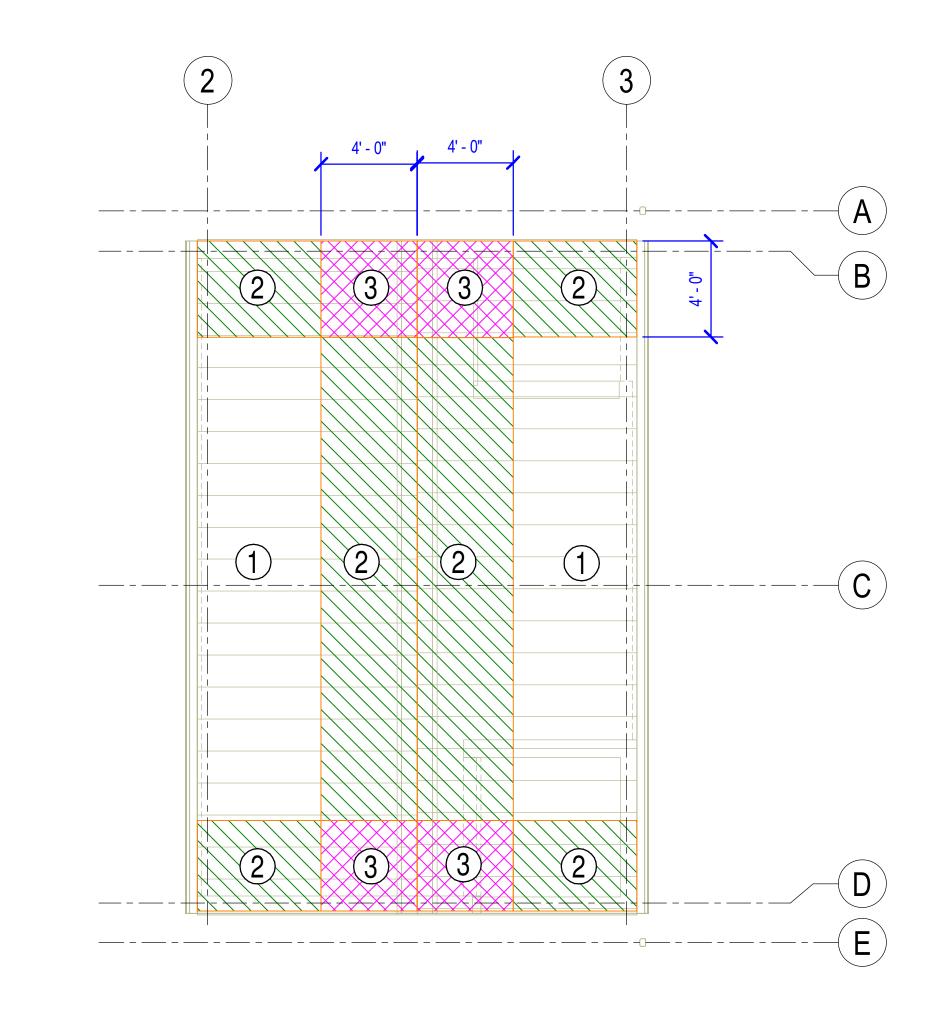
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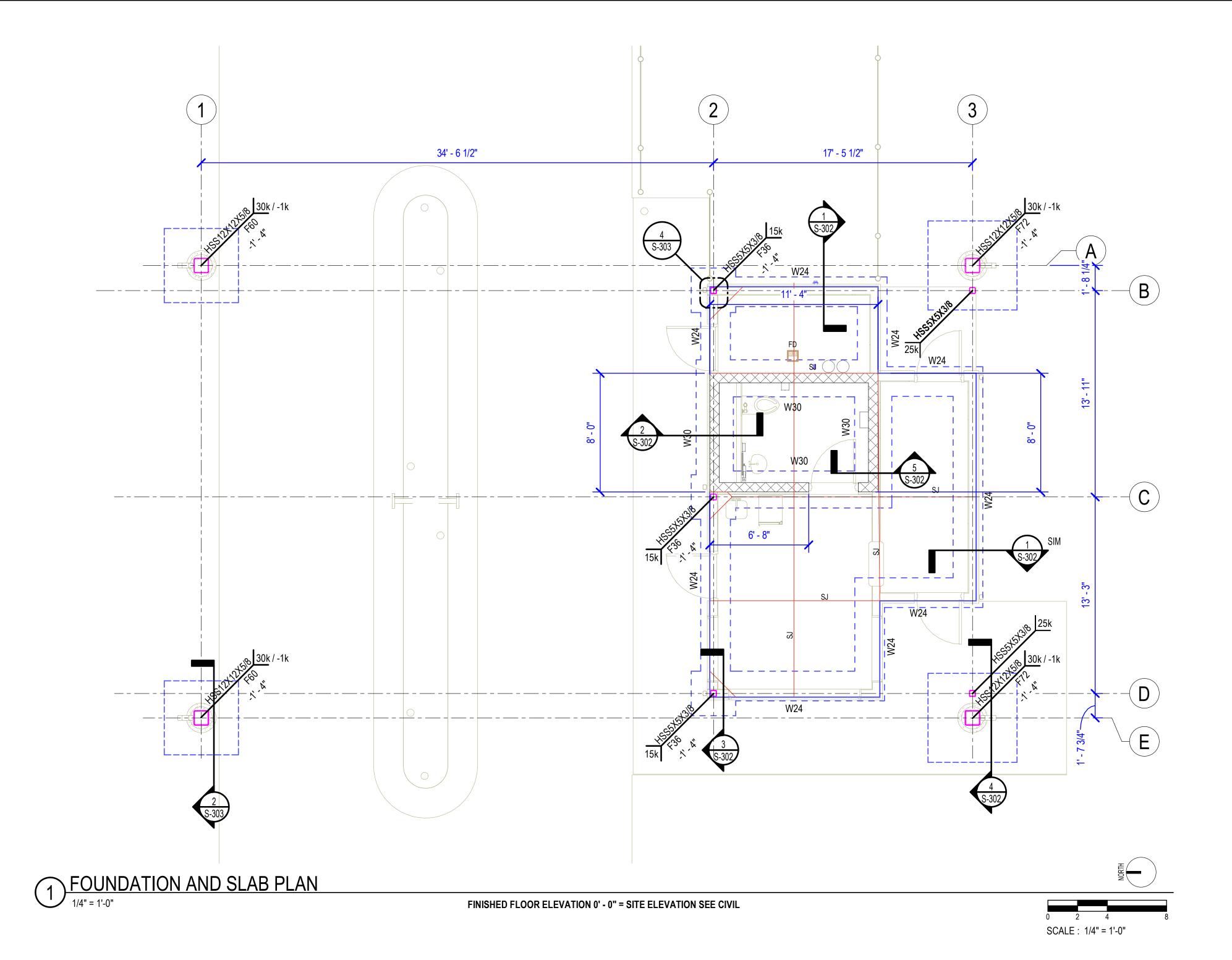
 (E)



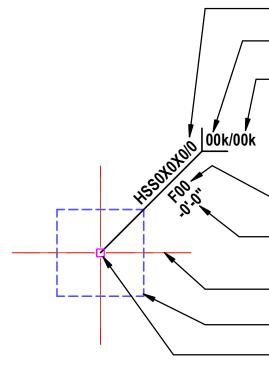
2 GUARD POST COMPONENTS AND CLADDING WIND PRESSURE PLAN

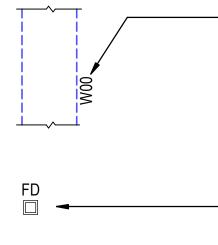
	OJET Guard - 2							
	STRUCTION CUMENTS							
Revisions No. Date	Description							
Stamp								
Mich	CROMWELL ARCHITECTS/ ENGINEERS #5 WSAS-ENGINETITI WSAS-ENGINETITI NSAS-ENGINETITI MULTIN STATE 0 ARHANSAS PROFESSIONAL ENGINEER * * * No. 9668 SEL CAL							
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Issue Date	07-17-2024							
COMPONENTS AND CLADDING WIND PRESSURE PLANS								
Sheet Number –	-003							

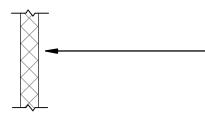
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FOUNDATION AND SLAB LEGEND







NOTE: GALVANIZE EXTERIOR COLUMNS

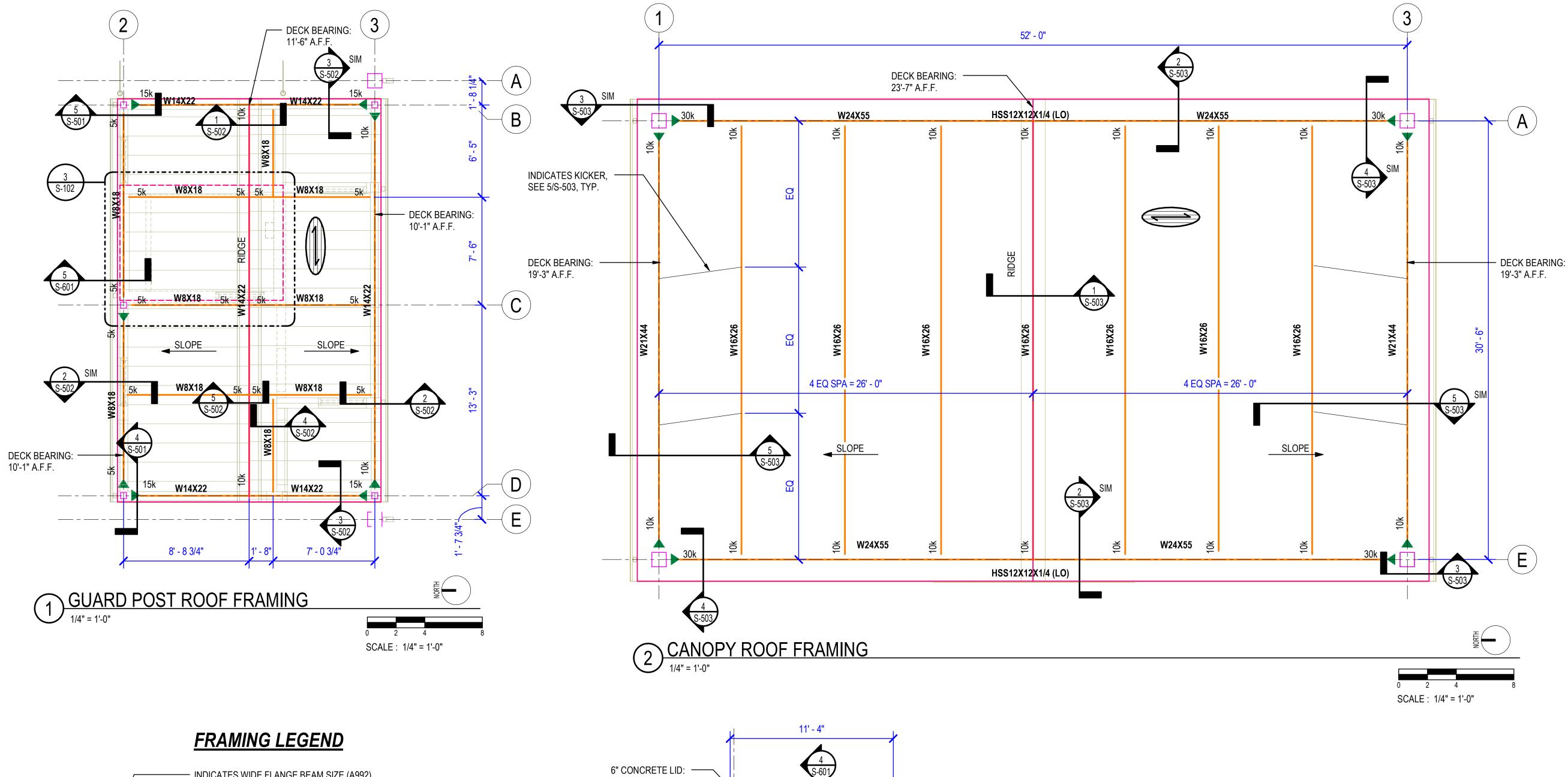
COL FOOTING SCHEDULE											
MARK #	MARK # W L T REINFORCING										
F36	3' - 0"	3' - 0"	1' - 4"	#5 AT 9" O.C. BOT							
F60	5' - 0"	5' - 0"	1' - 4"	#5 AT 9" O.C. TOP AND BOT							
F72	6' - 0"	6' - 0"	1' - 4"	#5 AT 9" O.C. TOP AND BOT							

CONT FOOTING SCHEDULE								
MARK #	W	Т	REINFORCING					
W24	2' - 0"	1' - 4"	SEE 1/S-302					
W30	2' - 6"	1' - 4"	SEE 2/S-302					

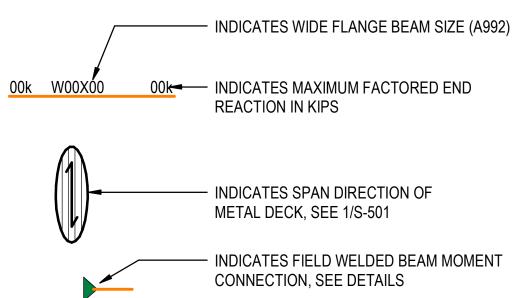
- · INDICATES STRUCTURAL STEEL COLUMN SIZE
- INDICATES COLUMN DESIGN LOAD IN KIPS (UNFACTORED)
- INDICATES NET MAX COLUMN UPLIFT (UNFACTORED)
- ► INDICATES FOOTING SIZE, SEE SCHEDULE.
- INDICATES TOP OF FOOTING (T.O.F.) IN RELATION TO FINISHED GRADE.
- INDICATES CONTROL/CONSTRUCTION JOINT IN SLAB
- INDICATES SPREAD FOOTING, SEE SCHEDULE.
- INDICATES STRUCTURAL STEEL COLUMN, SEE PLAN FOR SIZE.
- INDICATES CONTINUOUS FOOTING SIZE, SEE SCHEDULE
- INDICATES FLOOR DRAIN, COORDINATE WITH ARCH AND PLUMBING
- INDICATES LOAD-BEARING CMU SHEAR WALL, SEE S-601.

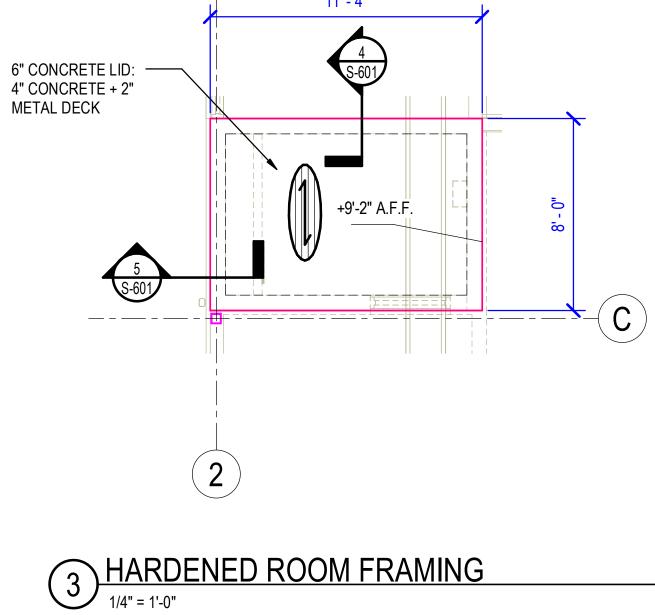


	OJET Guard - 2
Design Phase — CON DO Revisions — No. Date	STRUCTION CUMENTS Description
M.e.	No. 9668
Notes 1. CROMWELL A ALL RIGHTS RE 2. THIS SHEET DES CRITICAL INFO BLACK AND W Project Number Issue Date	RCHITECTS ENGINEERS, INC.
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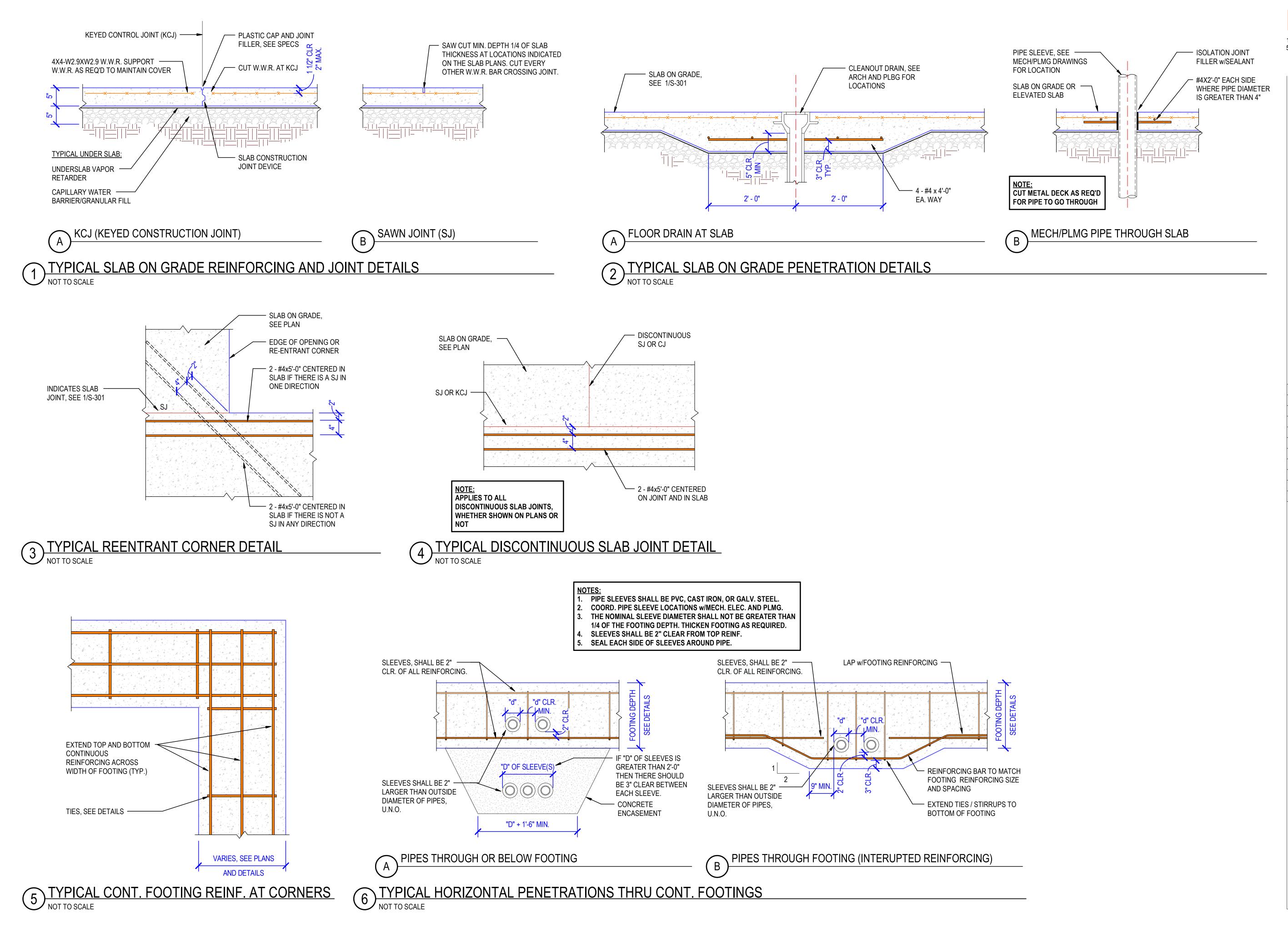




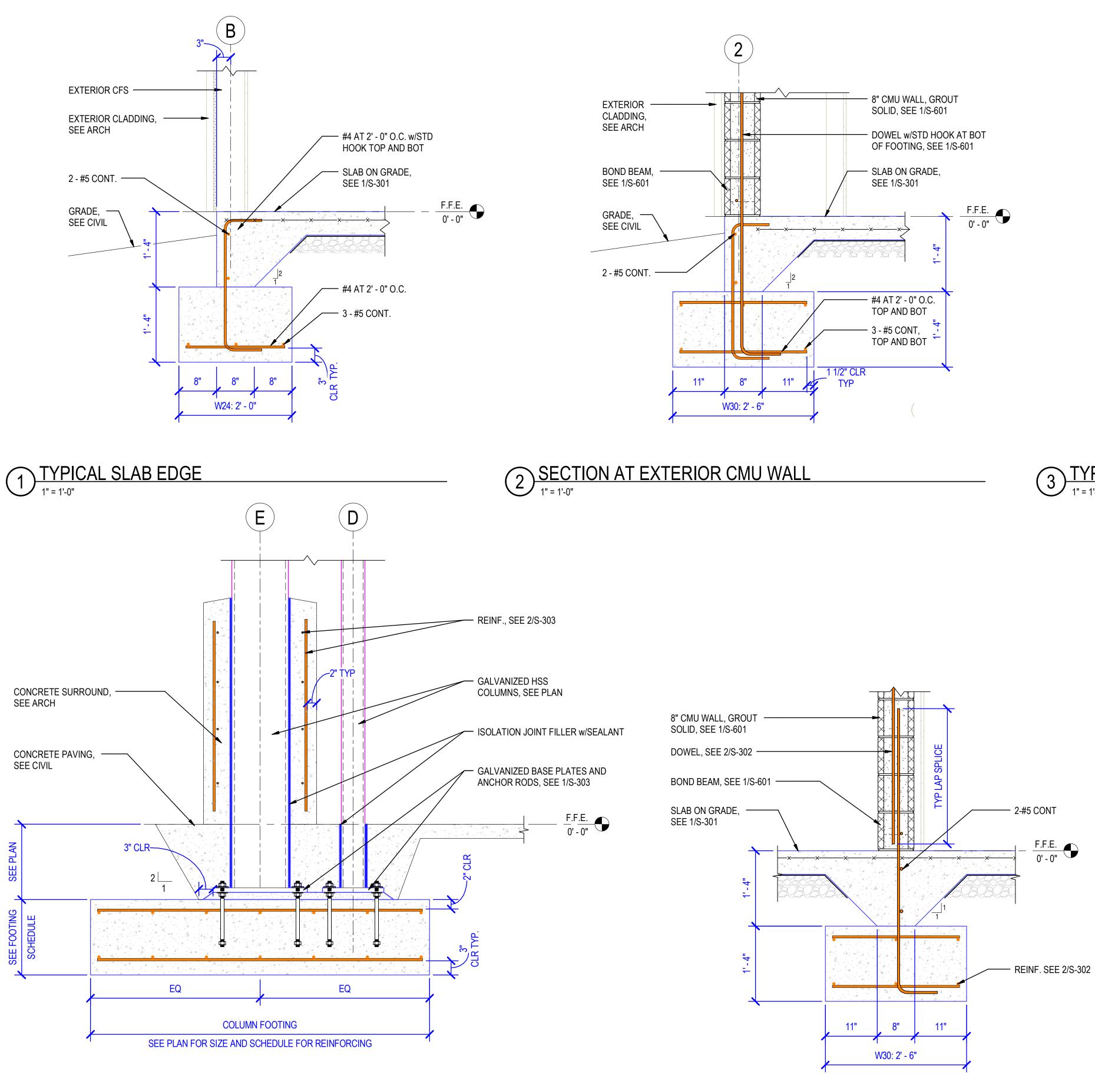


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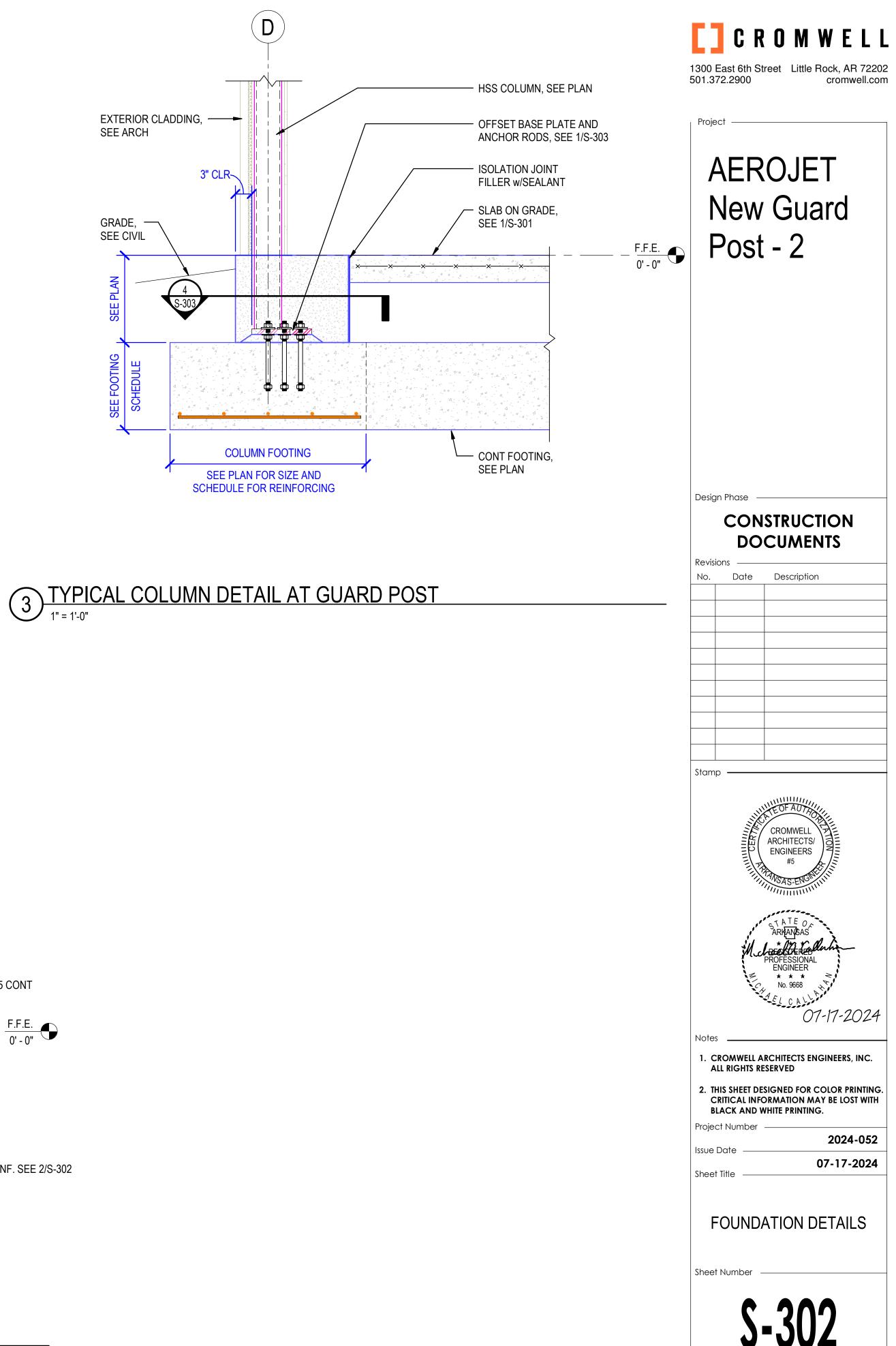
Project AEROJET New Guard Post - 2 Design Phase CONSTRUCTION DOCUMENTS Revisions Date Description No. Stamp CROMWELL ARCHITECTS/ ENGINEERS #5 ARHANGAS PROFESSIONAL * * * No. 9668 CHAEI 07-17-2024 Notes 1. CROMWELL ARCHITECTS ENGINEERS, INC. ALL RIGHTS RESERVED 2. THIS SHEET DESIGNED FOR COLOR PRINTING. CRITICAL INFORMATION MAY BE LOST WITH BLACK AND WHITE PRINTING. Project Number 2024-052 Issue Date 07-17-2024 Sheet Title **ROOF FRAMING PLAN** Sheet Number **S-102**



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4 TYPICAL COMBINED FOOTING



5 SECTION AT INTERIOR CMU WALL

New	OJET Guard
Post	- 2
Design Phase —	STRUCTION
Revisions ———	CUMENTS
No. Date	Description
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CERTIN	CROMWELL ARCHITECTS/ ENGINEERS #5 ********
.e.	ARIANSAS PROFESSIONAL ENGINEER No. 9668 AELCALLA OT-17-2024
	RCHITECTS ENGINEERS, INC.
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ssue Date	07-17-2024
	ATION DETAILS
iheet Number –	
S	-302

TYPICAL BASE PLATE SCHEDULE									
COL SIZE	PLATE THICKNESS	Α	В	С	D	ANCHOR ROD Ø	MIN. Embedment		
HSS5X5 (GRID LINE 3)	3/4"	1'-1"	1'-1"	9"	9"	3/4"	1'-0"		
HSS12X12	1 1/2"	1'-8"	1'-8"	1'-4"	1'-4"	3/4"	1'-0"		
HSS5X5 (GRID LINES 2 & 2.1)	3/4"	OFFSET, SEE 4/S-303				3/4"	1'-0"		

ANCHOR ROD WASHERS AND HOLES SIZE

2"

NOTES: 1. THIS CHART IS TAKEN FROM AISC TABLE 14-1. LATEST VERSION OF AISC TABLE

3. ADEQUATE CLEARANCE MUST BE PROVIDED FOR THE WASHER SIZE SELECTED

MAX HOLE Ø MIN. WASHER SIZE

1 5/16"

2. CIRCULAR OR SQUARE WASHERS ARE ACCEPTABLE.

ANCHOR ROD Ø

3/4

14-1 TAKES PRECEDENCE.

MIN. WASHER

THICKNESS

1/4"

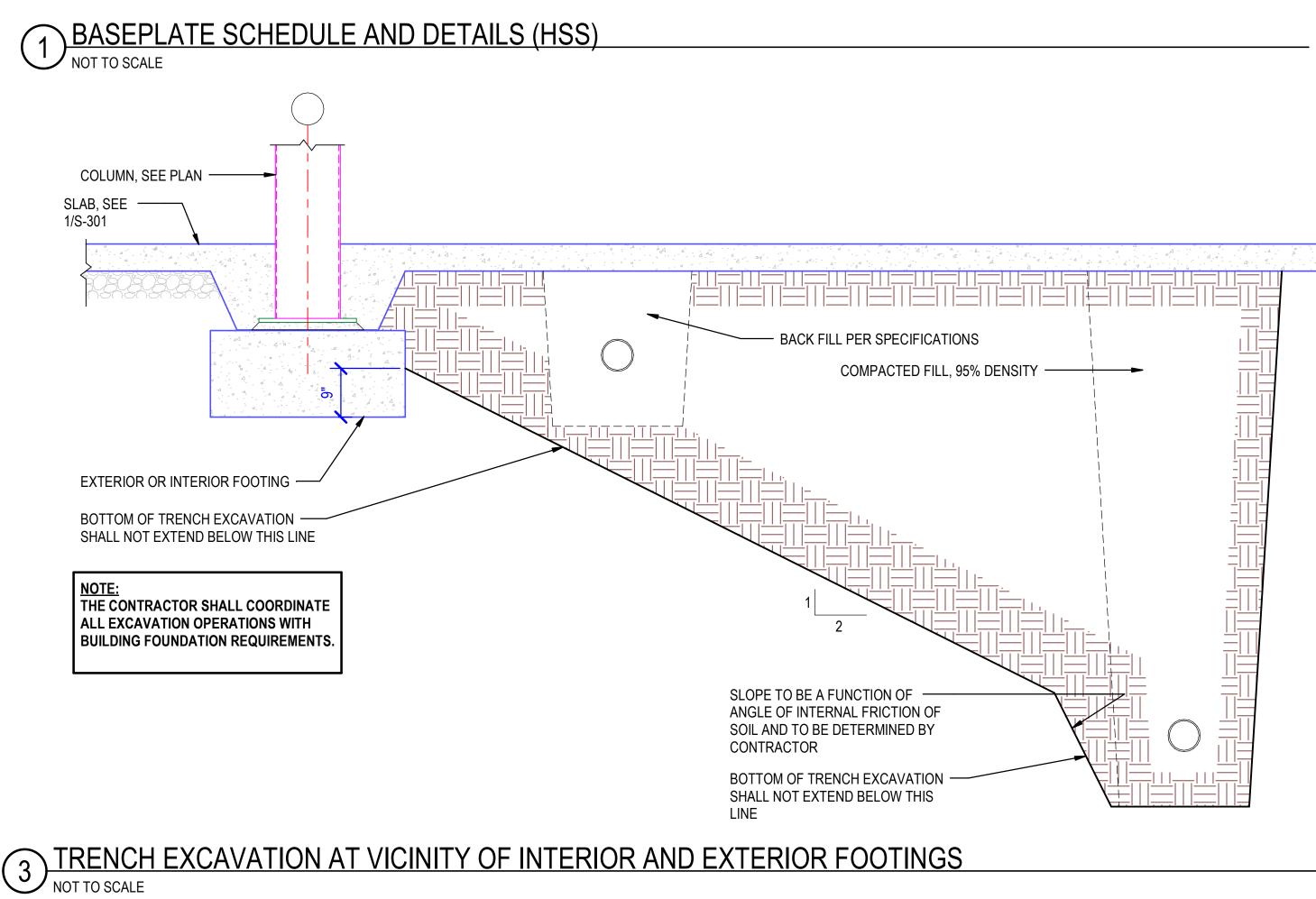
AISC TABLE J2.4

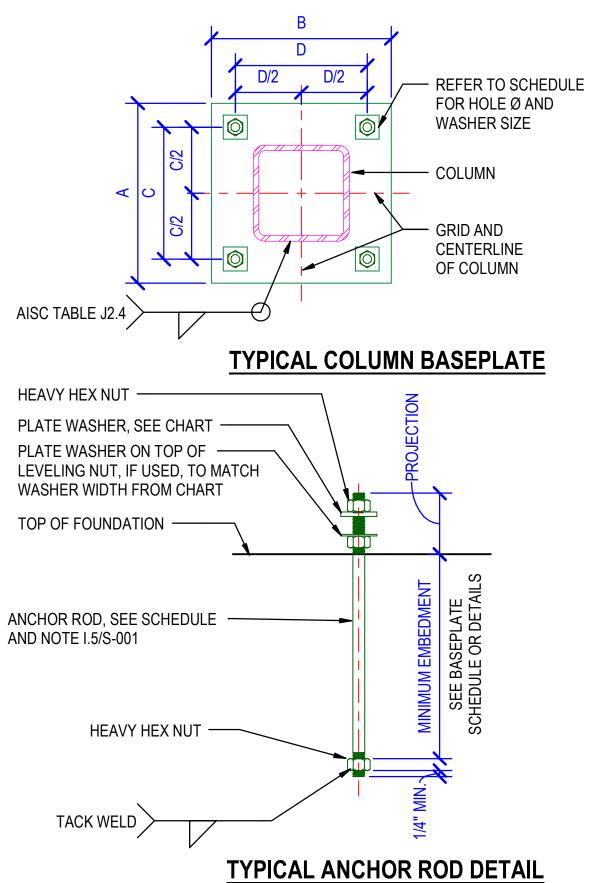
HEAVY HEX NUT -

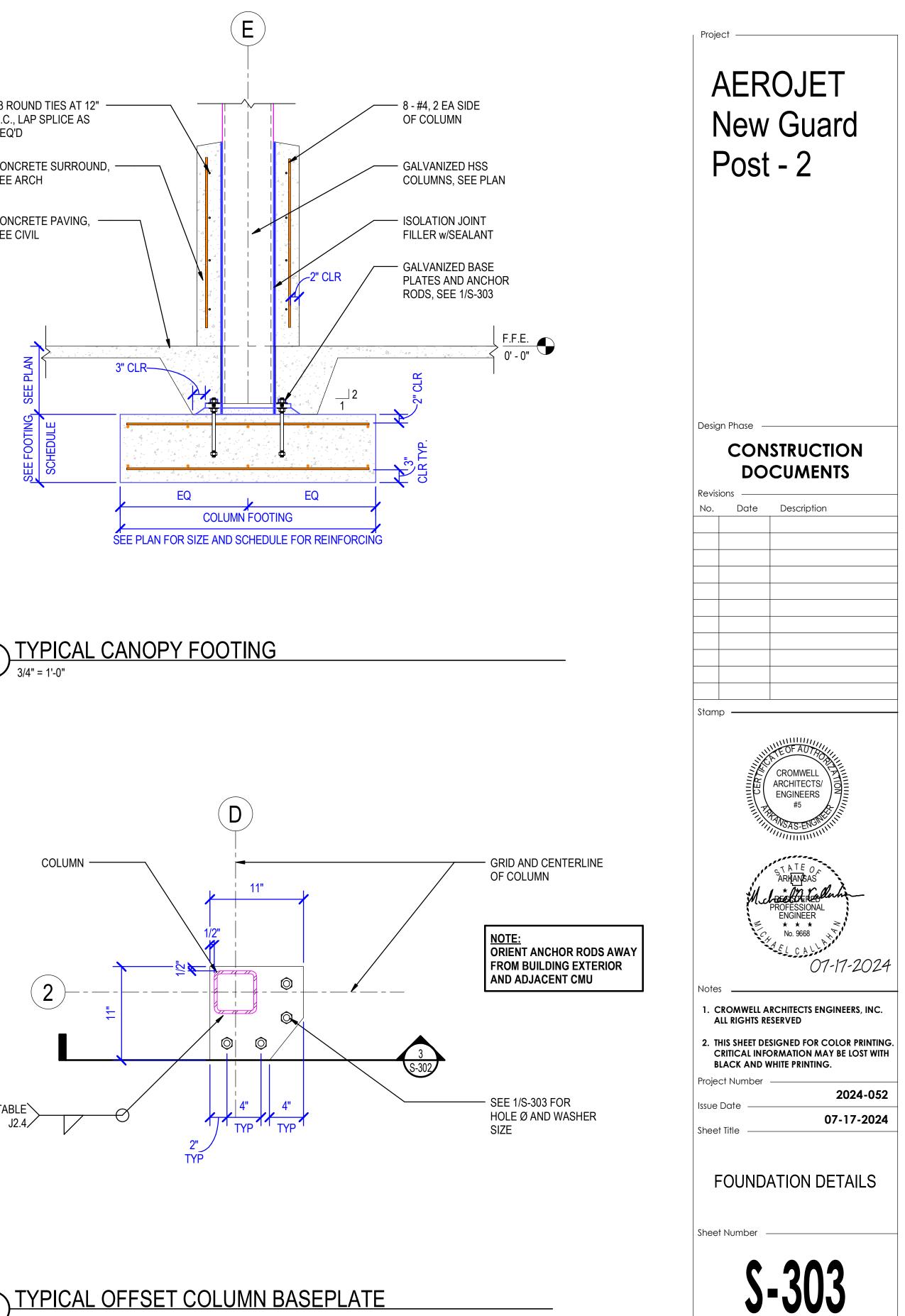
TOP OF FOUNDATION -

AND NOTE I.5/S-001

TACK WELD

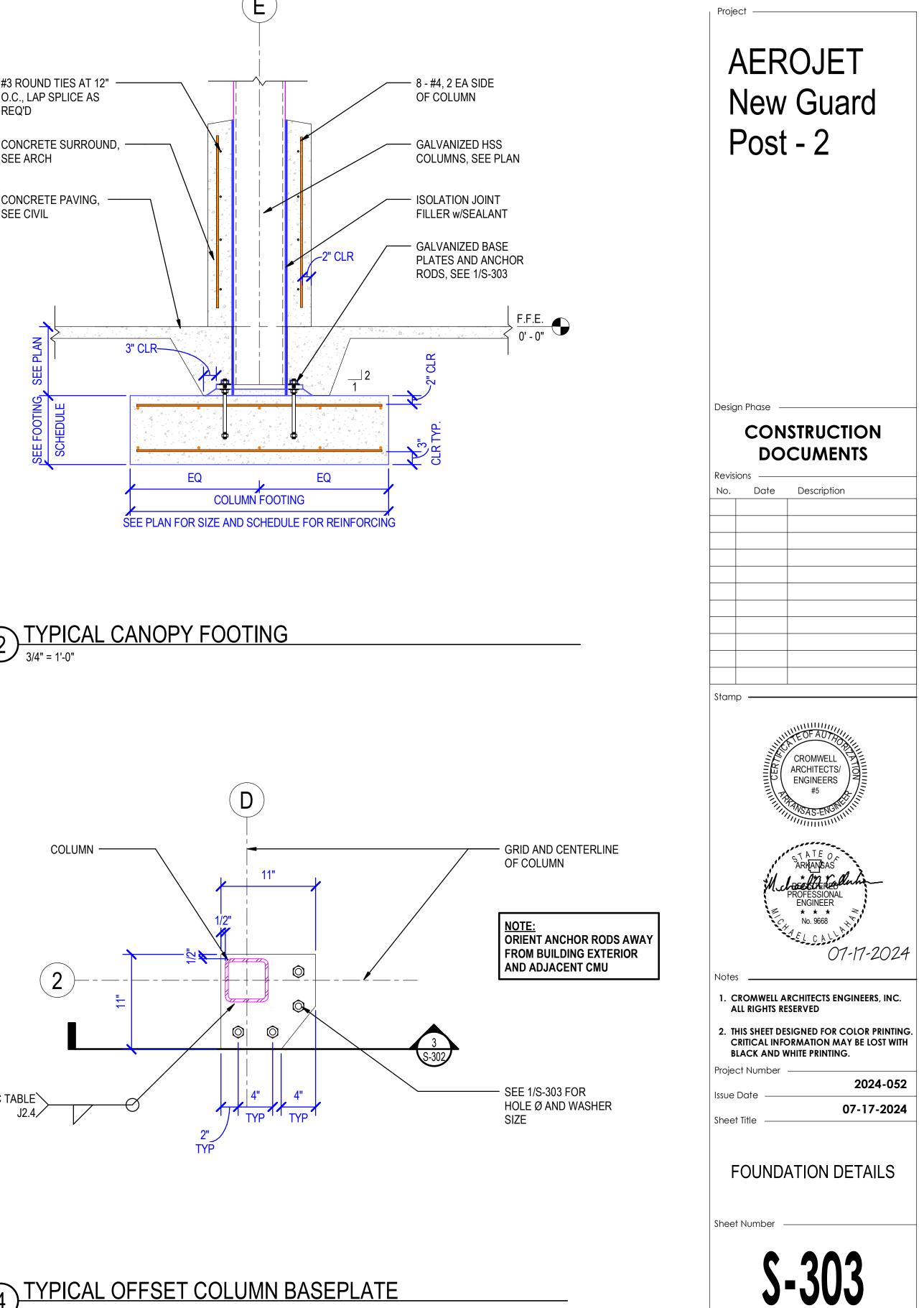


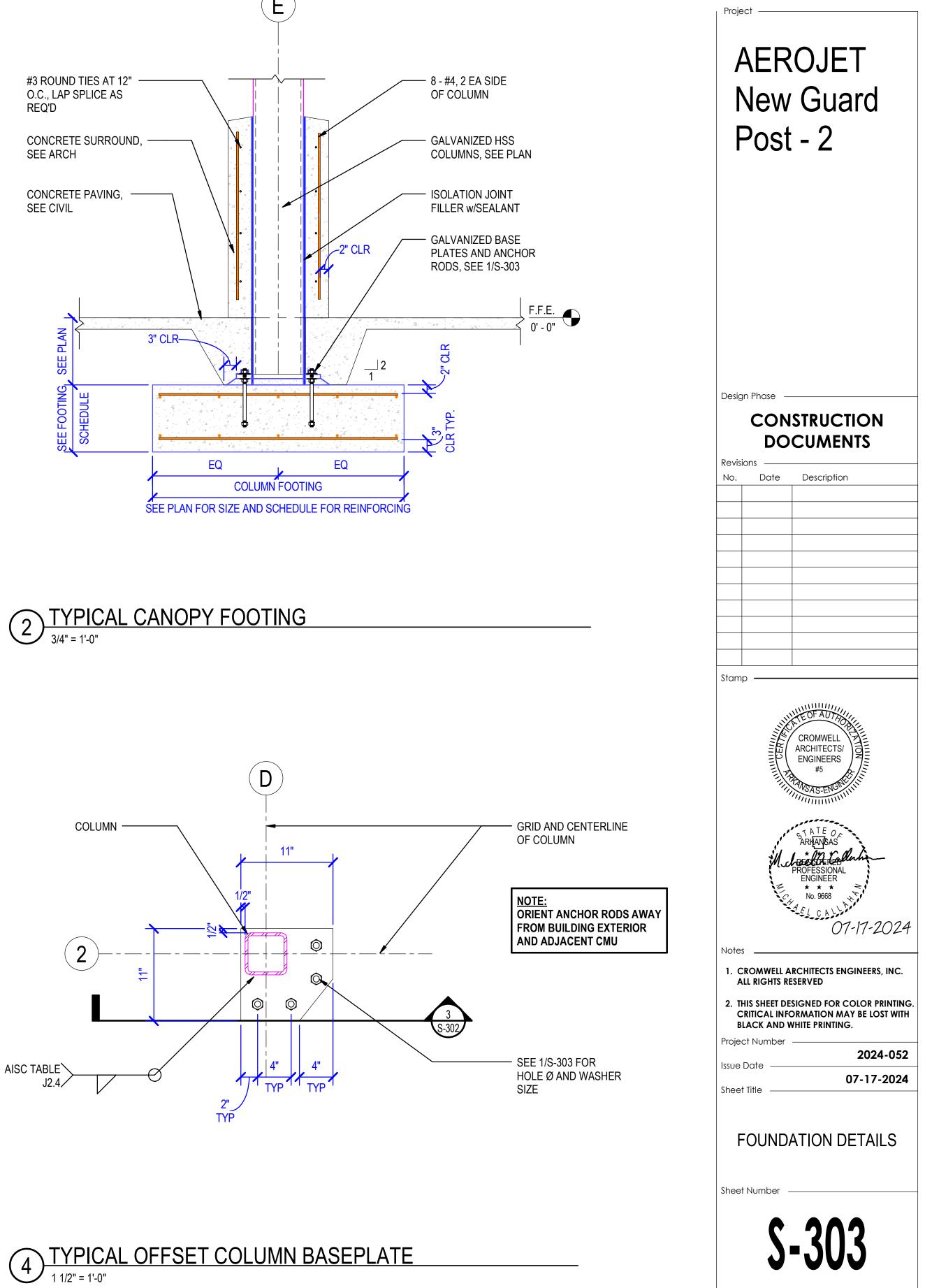


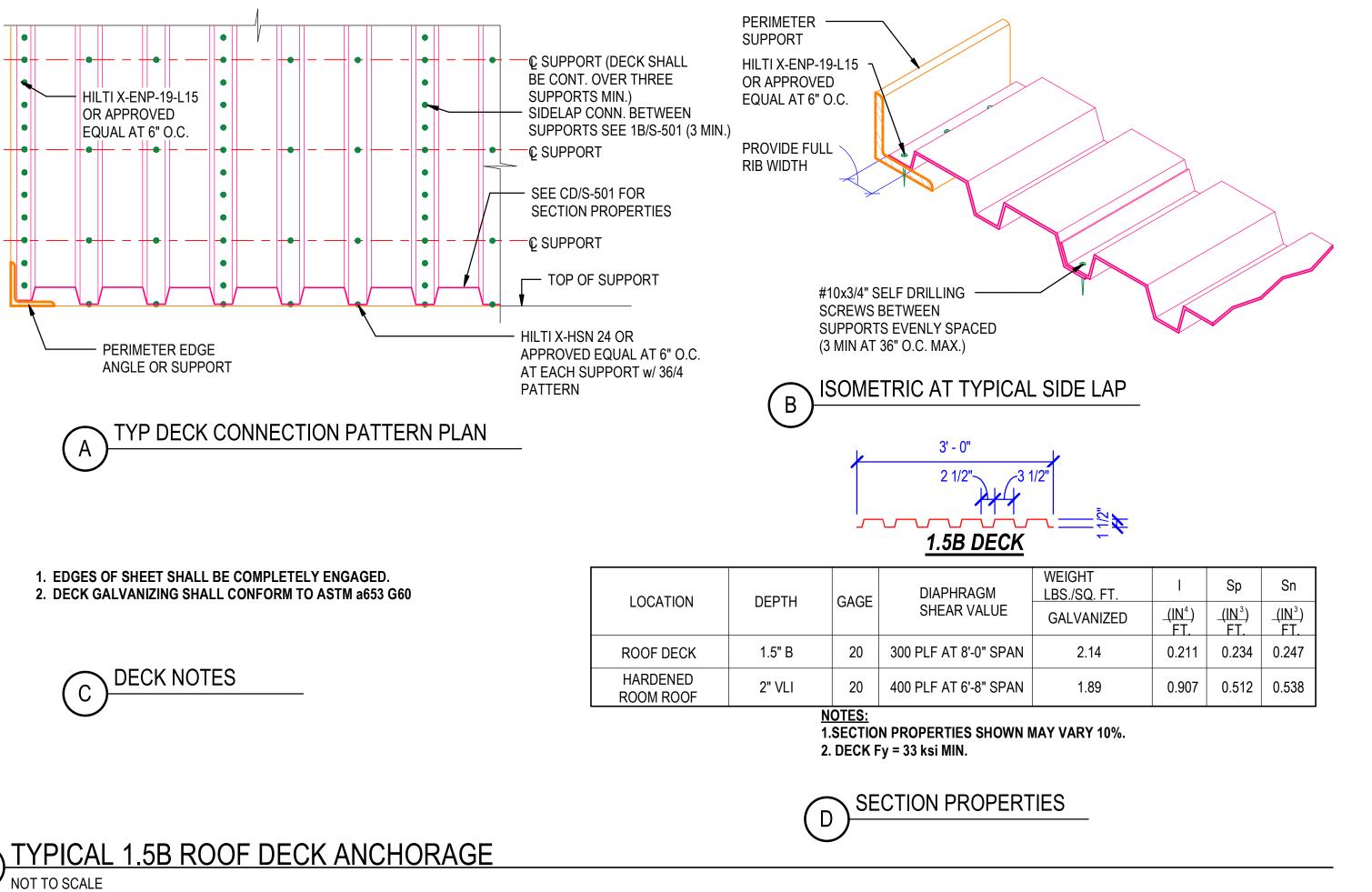


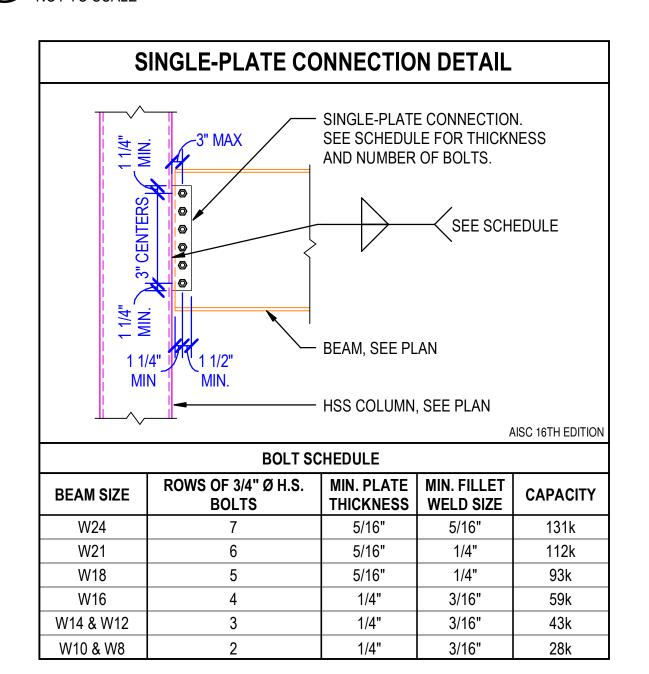
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ROOFING, SEE ARCH -

BENT PLATE, SEE 3/S-502 -

METAL DECK, SEE 1/S-501

SHEAR CONN, SEE 3/S-501

COLUMN, SEE PLAN -

EXTERIOR CLADDING, SEE ARCH ----

NOTES:

1

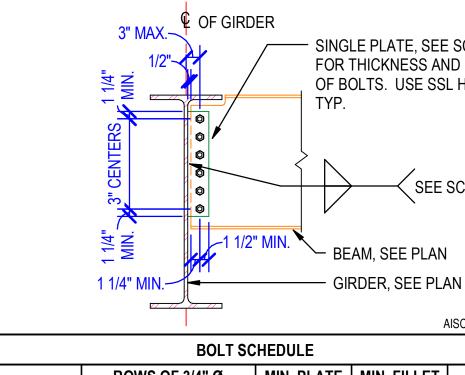
CAPACITY IS BASED ON LRFD DESIGN WITH STANDARD OR SHORT HORIZONTAL SLOTTED HOLES AND A MAXIMUM HSS WIDTH TO THICKNESS RATIO OF 33.7. OVERSIZE OR VERTICAL SLOTTED HOLES ARE NOT ALLOWED. FOR STANDARD HOLES MINIMUM PLATE THICKNESS SHALL BE USED. NUMBER OF BOLTS SHOWN IS THE MINIMUM REQUIRED FOR CONNECTIONS

PREHEAT WELDS AS REQUIRED BY AISC. USE STANDARD HOLES ALONG BRACED FRAME OR MOMENT FRAME GRID LINES.



DIAPHRAGM	LBS./SQ. FT.		Sp	Sn
SHEAR VALUE	GALVANIZED	_ <u>(IN</u> ⁴) FT.	<u>(IN ³)</u> FT.	<u>(IN</u> ³) FT.
300 PLF AT 8'-0" SPAN	2.14	0.211	0.234	0.247
400 PLF AT 6'-8" SPAN	1.89	0.907	0.512	0.538

SINGLE-PLATE CONNECTION DETAIL

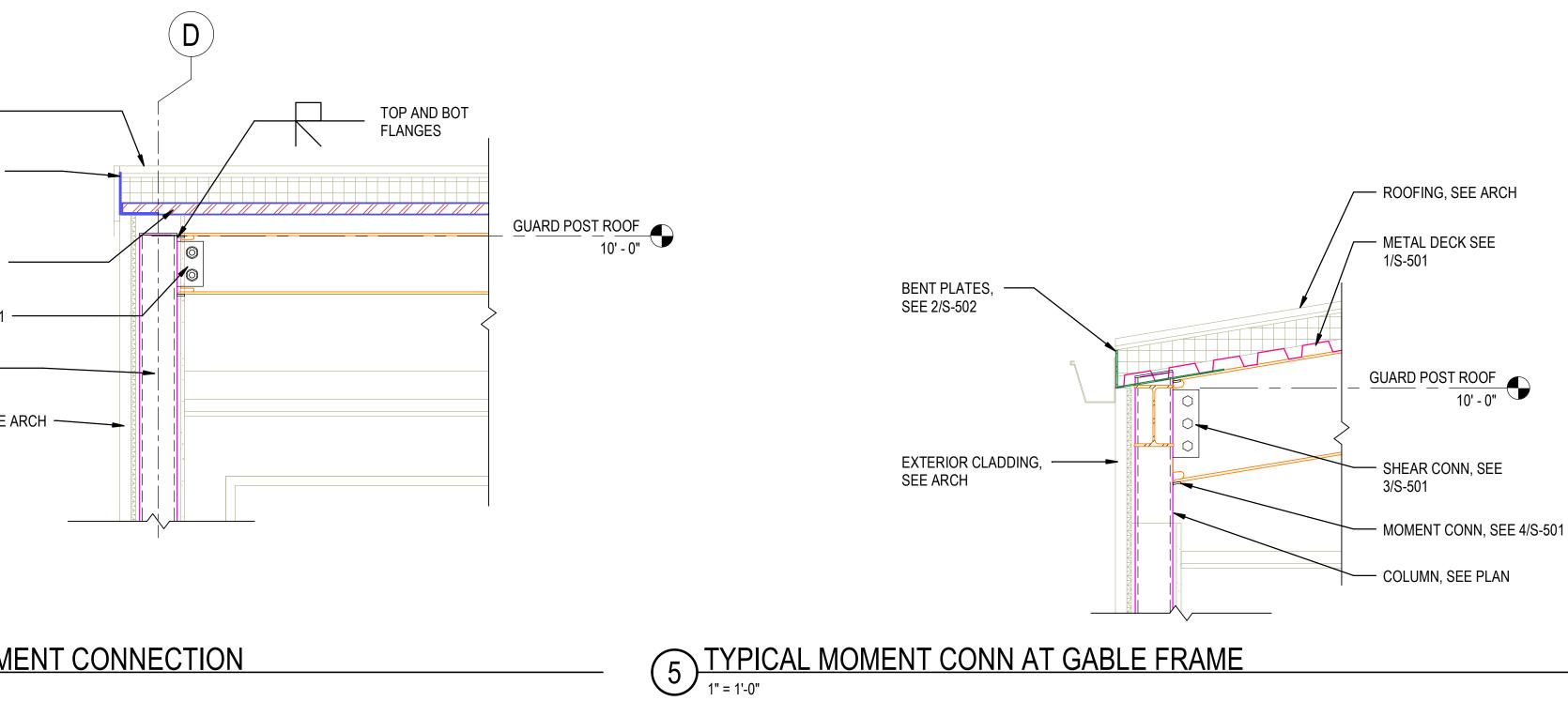


BEAM SIZE	ROWS OF 3/4" Ø H.S. BOLTS	MIN. PLATE THICKNESS	MIN. FILLET Weld Size
W18	5	5/16"	1/4"
W16	4	1/4"	3/16"
W14 & W12	3	1/4"	3/16"
W10 & W8	2	1/4"	3/16"

NOTES

- CAPACITY IS BASED ON LRFD DESIGN WITH STANDARD OR SHORT HORIZONTAL SLOTTED HOLES. OVERSIZE OR VERTICAL SLOTTED HOLES ARE NOT ALLOWED. FOR STANDARD HOLES MINIMUM PLATE THICKNESS SHALL BE USED.
- NUMBER OF BOLTS SHOWN IS THE MINIMUM REQUIRED FOR CONNECTIONS
- PREHEAT WELDS AS REQUIRED BY AISC.
- BEAMS WITH LARGE COPES MAY REQUIRE WEB STIFFENER.





e schedule Nd Number Sl Horiz.	

SEE SCHEDULE

AISC 16TH EDITION

	CAPACITY
Ι	93k
I	59k
I	43k
	28k

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ARHANGAS PROFÉSSIONAL ENGINEER * * * No. 9668 07-17-2024

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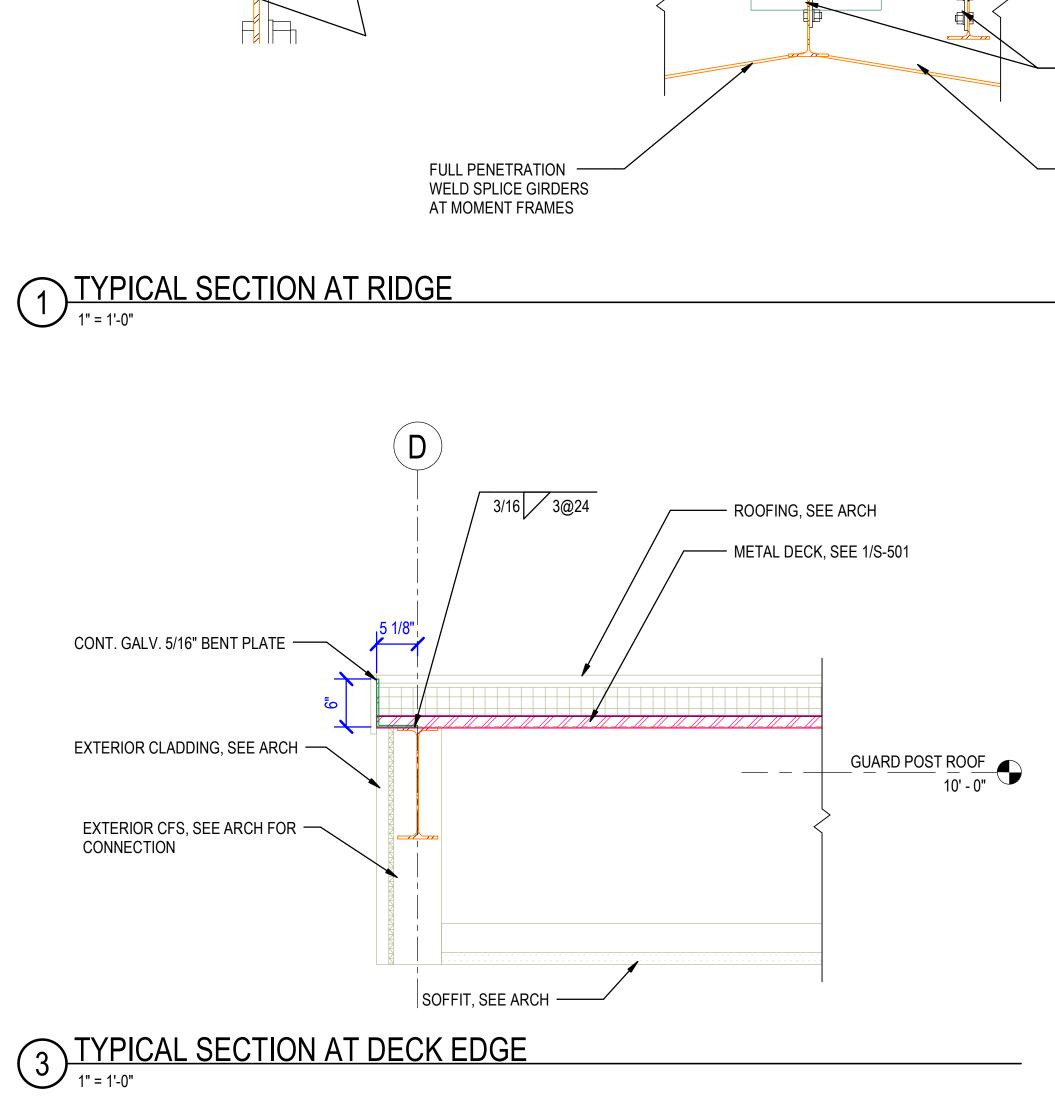
TYPICAL ROOF FRAMING DETAILS

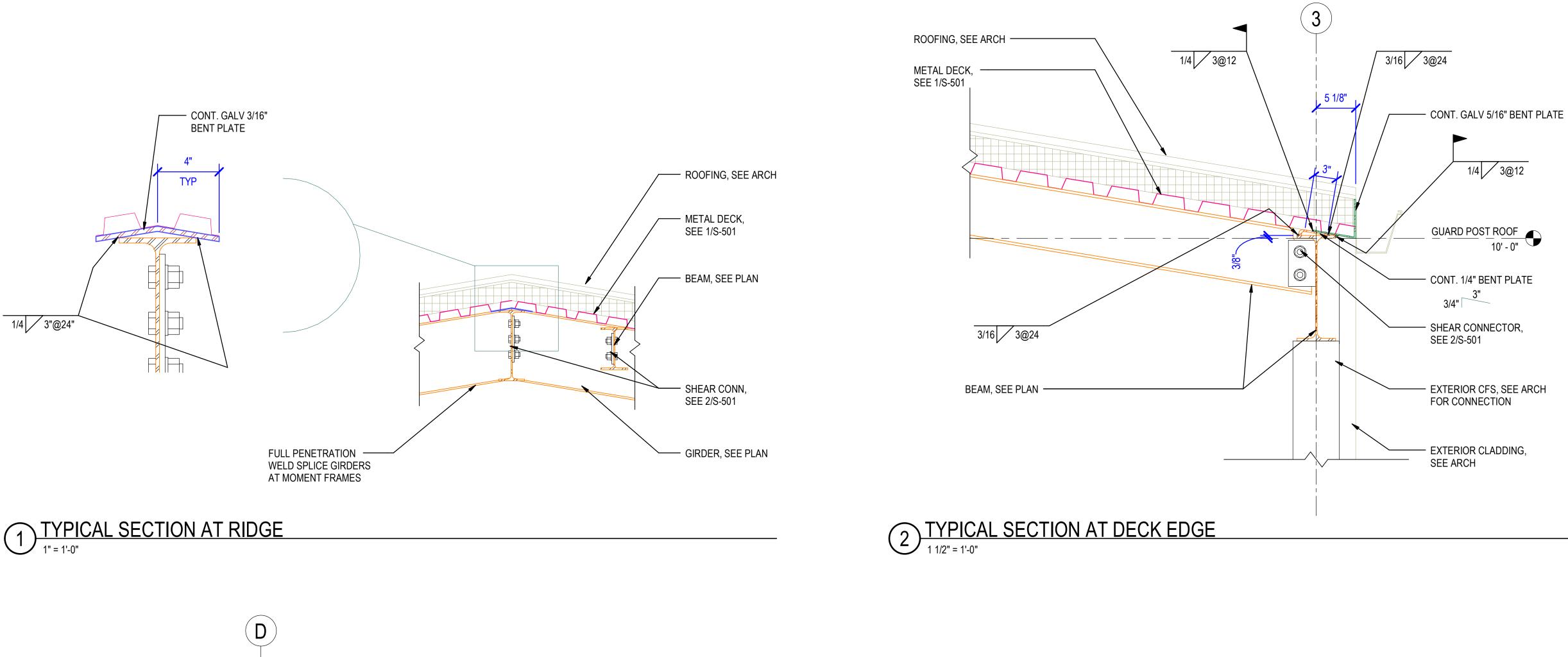
Sheet Number

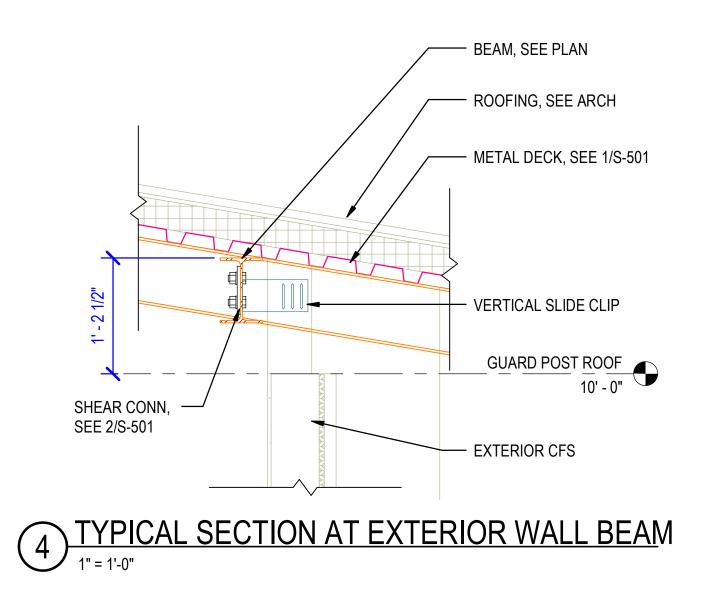
Issue Date

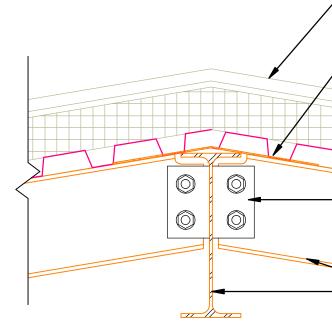
Sheet Title

S-50[°]









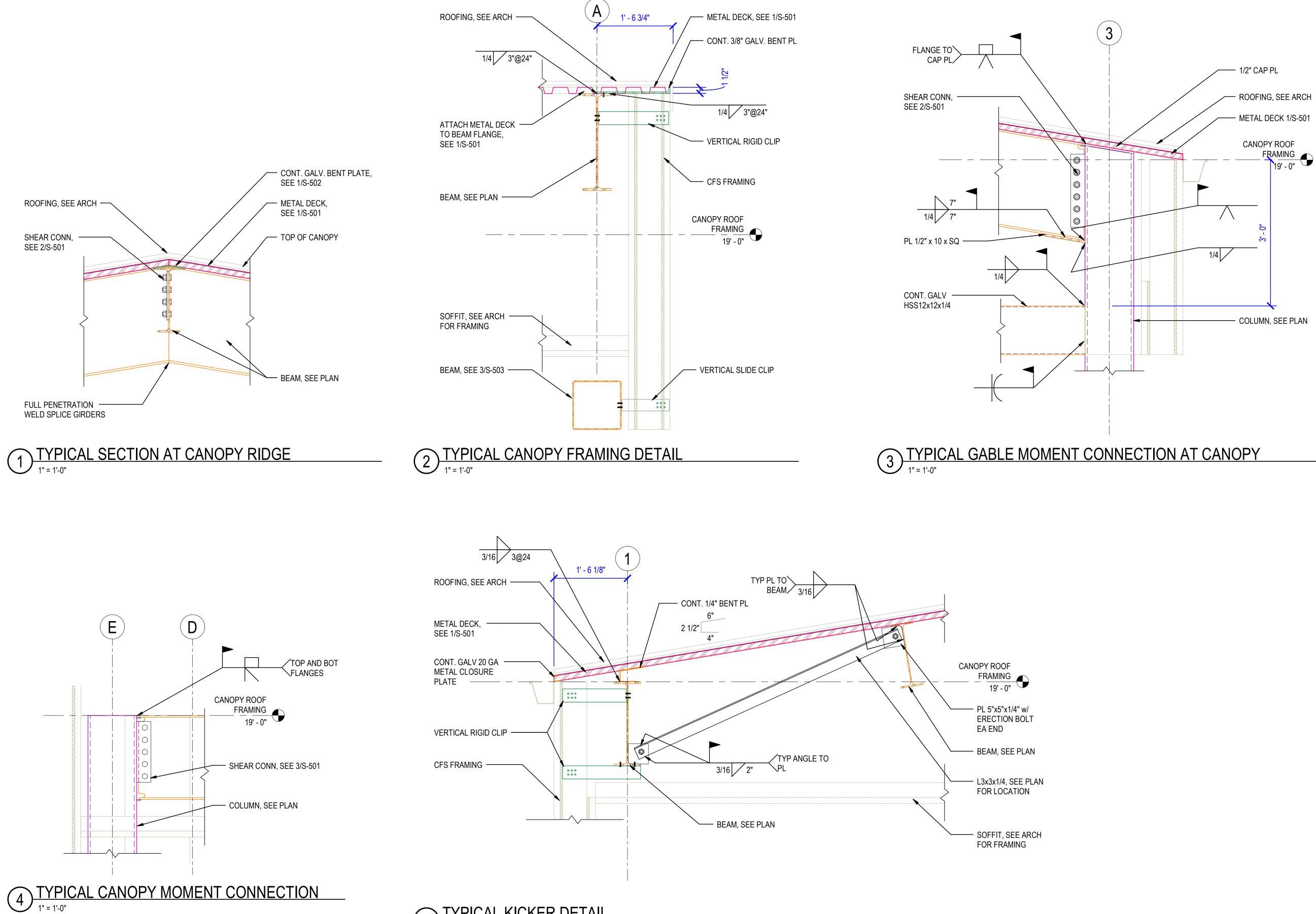


Project AEROJET New Guard Post - 2 Design Phase CONSTRUCTION DOCUMENTS Revisions Date Description No. Stamp -CROMWELL ARCHITECTS/ ENGINEERS STATEOR ARHANGAS DECLOTERED PROFESSIONAL ENGINEER No. 9668 CHAEI 07-17-2024 Notes 1. CROMWELL ARCHITECTS ENGINEERS, INC. ALL RIGHTS RESERVED 2. THIS SHEET DESIGNED FOR COLOR PRINTING. CRITICAL INFORMATION MAY BE LOST WITH BLACK AND WHITE PRINTING. Project Number 2024-052 Issue Date 07-17-2024 Sheet Title **TYPICAL ROOF** FRAMING DETAILS Sheet Number **S-502**

CROMWELL

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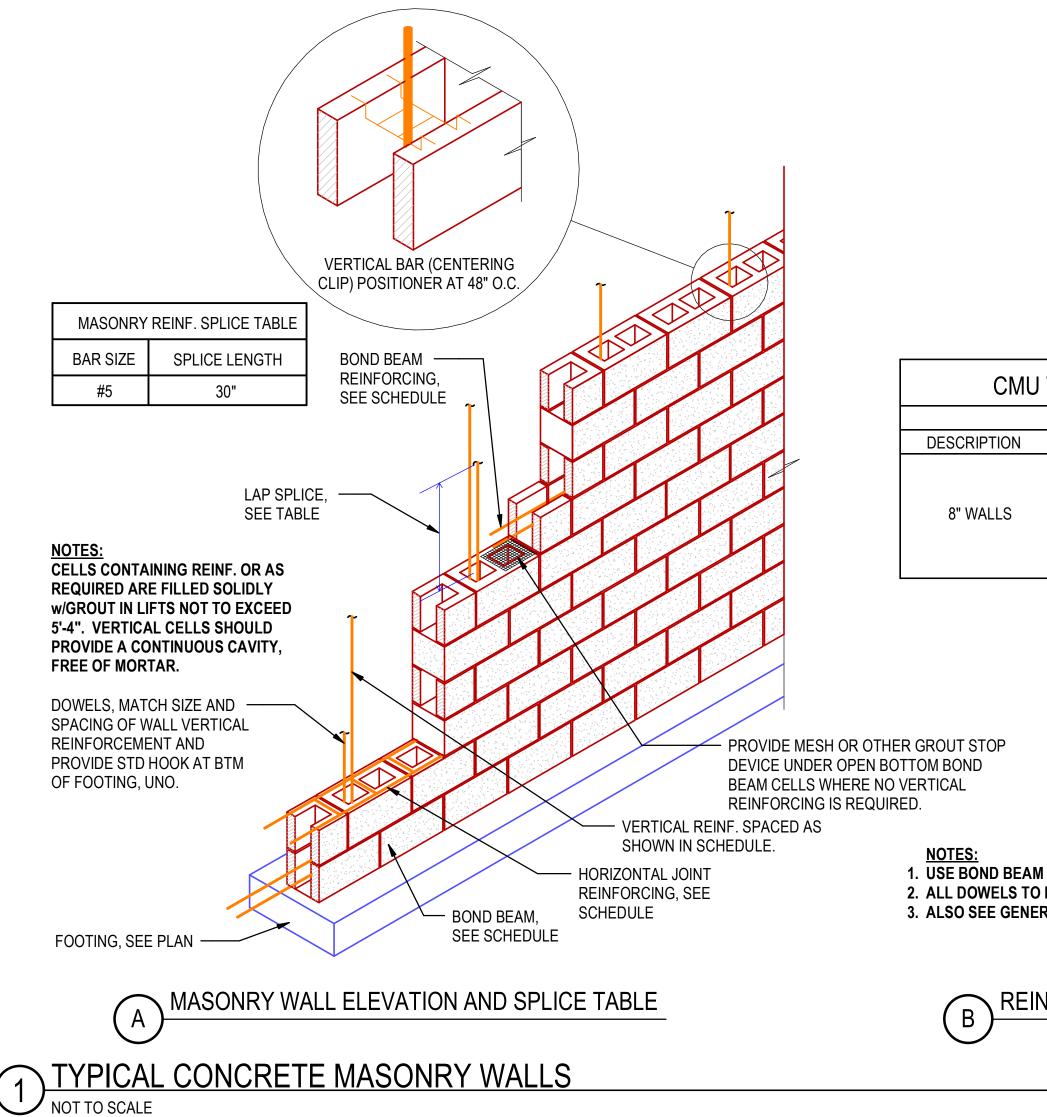
- ROOFING, SEE ARCH BENT PLATE, SEE 1S-502 — METAL DECK, SEE 1/S-501 - SHEAR CONN, SEE 2/S-501, TYP - BEAM, SEE PLAN

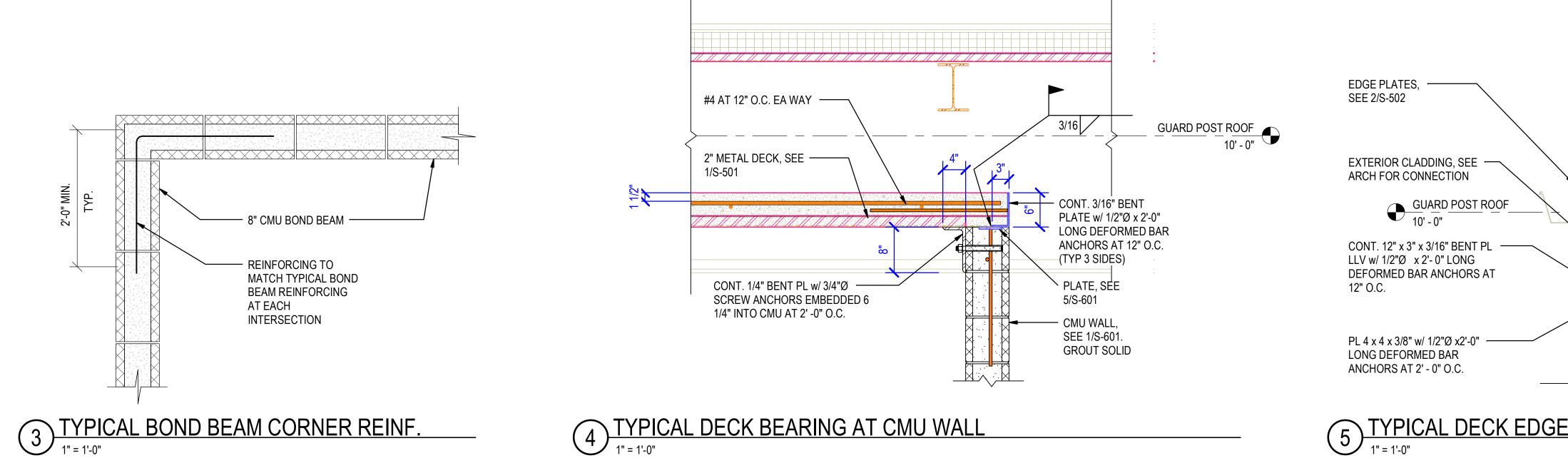


5 TYPICAL KICKER DETAIL

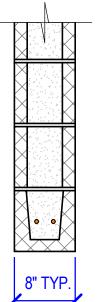
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		RCHITECTS ENGINEERS, INC.	
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07-17-2024			
TYPICAL CANOPY FRAMING DETAILS			
Sheet Number 5003			

C R O M W E L L





J WALL REINFORCEMENT SCHEDULE			
	REINFORCEMENT		
	VERTICAL	HORIZONTAL	REMARKS
	#5 AT 16" O.C. AND AT EACH SIDE OF OPENINGS	CONT. BOND BEAM w/1-#5 AT FLOOR SLAB AND AT TOP OF WALL. LADDER JOINT REINFORCEMENT AT 16" O.C.	grout Solid



SINGLE WYTHE

OPENINGS < 6'-0"

 NOMINAL WALL THICKNESS (t)	WIDTH OF C
	0'-10" TO 6'-
8"	8" CMU BOND I w/2-#5 BOTT

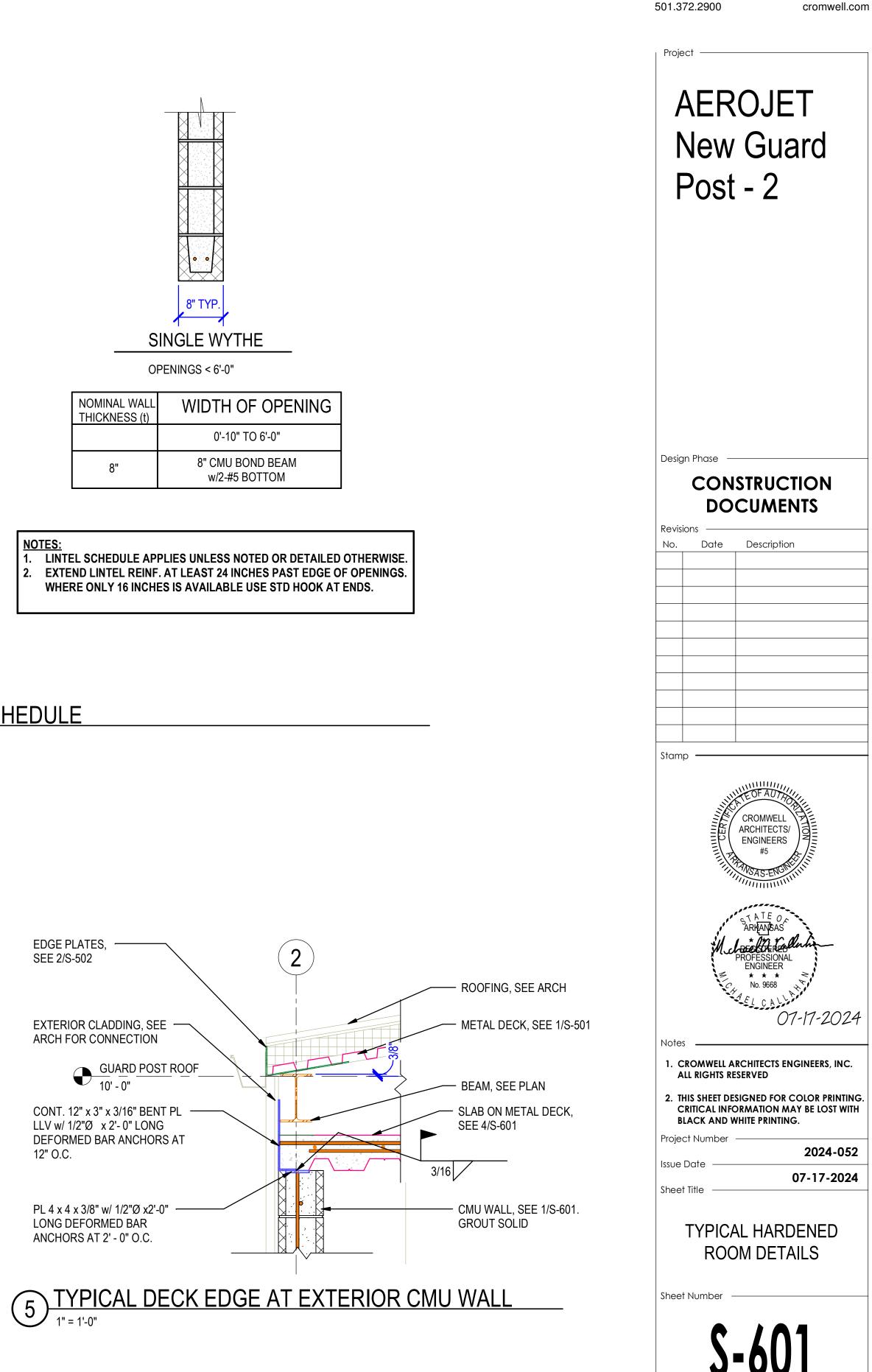
NOTES:

LINTEL SCHEDULE APPLIES UNLESS NOTED OR DETAILED OTHERWISE. EXTEND LINTEL REINF. AT LEAST 24 INCHES PAST EDGE OF OPENINGS. WHERE ONLY 16 INCHES IS AVAILABLE USE STD HOOK AT ENDS.

1. USE BOND BEAM UNITS WITH OPEN BOTTOM AT CELLS WITH VERTICAL REINFORCMENT. 2. ALL DOWELS TO MATCH SIZE AND SPACING OF VERTICAL REINFORCEMENT, U.N.O. 3. ALSO SEE GENERAL NOTES ON SHEET S-001 FOR ADDITIONAL INFORMATION.

REINFORCEMENT SCHEDULE





CROMWELL

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