

1 ABRIVIATIONS

AB ANCHOR BOLT(S)	O.C. ON CENTER
ABV ABOVE	O.F. OUTSIDE FACE
ALT ALTERNATE	OPNG OPENING
APPROX APPROXIMATE	OPP OPPOSITE
ARCH ARCHITECT(URAL)	
BLDG BUILDING	PCF POUNDS PER CUBIC FOOT
BLW BELOW	PL PLATE
BM BEAM	PLF POUNDS PER LINEAL FOOT
BOT BOTTOM	PNL PANEL
BRG BEARING	PSF POUNDS PER SQUARE FOOT
BTWN BETWEEN	PSI POUNDS PER SQUARE INCH
	PT POINT
C.J. CONST/CONTROL JOINT	
CMU CONCRETE MASONRY UNIT	REINF REINFORCING
COL COLUMN	REQD REQUIRED
CONC CONCRETE	R.D. ROOF DRAIN
CONST CONSTRUCTION	RS ROUGH SAWN LUMBER
CTR CENTER	RTU ROOF TOP UNITS
DB DECK BEARING	SCW SEISMIC CRITICAL WELD
DBL DOUBLE	SHT SHEET
DET DETAIL	SI SPECIAL INSPECTION
DIA DIAMETER	SIM SIMILAR
DIM DIMENSION	SMU SUSPENDED MECHANICAL UNITS
DN DOWN	SOG SLAB-ON-GRADE
DWG DRAWING	SQ SQUARE
DWL DOWEL	STAG STAGGERED
EA EACH	STD STANDARD
E.F. EACH FACE	STL STEEL
E.J. EXPANSION JOINT	STR STRUCTURAL
ELEC ELECTRICAL	STS SELF TAPPING SCREWS
ELEV ELEVATION	
EQUIP EQUIPMENT	T&B TOP AND BOTTOM
EQ EQUAL	TEMP TEMPERATURE
E.W. EACH WAY	THDS THREADS
EXST EXISTING	T.O. TOP OF
(E) EXISTING	TOC TOP OF CONCRETE
EXP EXPANSION	TOD TOP OF DECK
EXT EXTERIOR	TOF TOP OF FOOTING
	TOS TOP OF STEEL
FC-x CONTINUOUS FOOTING MARK	TOW TOP OF WALL
F.D. FLOOR DRAIN	TYP TYPICAL
FDN FOUNDATION	
FS-x SQUARE FOOTING MARK	UNO UNLESS NOTED OTHERWISE
FT FOOT	
FTG FOOTING	VERT VERTICAL
FTS-x THICKEN SLAB MARK	
GA GAUGE	W/ WITH
GALV GALVANIZED	WD WOOD
GLB GLULAM BEAM	
GSN GENERAL STRUCTURAL NOTES	
HB HORIZONTAL BRIDGING	
HORIZ HORIZONTAL	
HSA HEADED STUD ANCHOR	
HT HEIGHT	
IBC INTERNATIONAL BUILDING CODE	
I.F. INSIDE FACE	
IN. INCH	
INT INTERIOR	
JT JOINT	
JST JOIST	
k KIP(S) = 1000 POUNDS	
KLF KIPS PER LINEAL FOOT	
KSF KIPS PER SQUARE FOOT	
LBS POUNDS	
LF LINEAL FOOT	
LVL LAMINATED VENEER LUMBER	
MAS MASONRY	
MAX MAXIMUM	
MECH MECHANICAL	
MFR MANUFACTURER	
MIN MINIMUM	
MISC MISCELLANEOUS	
NIC NOT IN CONTRACT	
NTS NOT TO SCALE	

2 GENERAL NOTES

- TYPICAL DETAILS AND SECTIONS SHALL APPLY WHERE SPECIFIC DETAILS ARE NOT SHOWN.
- THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND DIMENSIONS. IF ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN IN THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER BEFORE PROCEEDING WITH THE FABRICATION OR CONSTRUCTION OF ANY EFFECTED ELEMENTS.
- THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST TO THE ENGINEER BEFORE PROCEEDING WITH ANY CHANGES, SUBSTITUTIONS OR MODIFICATIONS. ANY WORK DONE BY THE CONTRACTOR BEFORE RECEIVING WRITTEN APPROVAL WILL BE AT THE RISK OF THE CONTRACTOR.
- IN CASE OF A CONFLICT BETWEEN THE CONTRACT DRAWINGS AND THE SPECIFICATIONS, FOLLOW THE MOST STRINGENT REQUIREMENT OR DIRECTIONS PROVIDED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL COORDINATE WITH ALL TRADES ANY ITEMS THAT ARE TO BE INTEGRATED IN THE STRUCTURAL SYSTEM SUCH AS OPENINGS, PENETRATIONS, MECHANICAL, ELECTRICAL EQUIPMENT, ETC. SIZES AND LOCATIONS OF MECHANICAL AND OTHER EQUIPMENT THAT DIFFERS FROM THOSE SHOWN ON THE CONTRACT DRAWINGS SHALL BE REPORTED TO THE ENGINEER.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND BRACING AS REQUIRED FOR HIS METHOD OF ERECTION. SHORING AND BRACING SHALL REMAIN IN PLACE UNTIL FINAL CONNECTIONS FOR THE PERMANENT MEMBERS ARE COMPLETED. THE BUILDING SHALL NOT BE CONSIDERED STABLE UNTIL ALL CONNECTIONS ARE COMPLETED. WALLS SHALL NOT BE CONSIDERED SELF-SUPPORTING AND SHALL BE BRACED UNTIL THE FLOOR/ROOF SYSTEM IS COMPLETED.

3 STATEMENT OF SPECIAL INSPECTIONS

SPECIAL INSPECTION AND QUALITY ASSURANCE

- SPECIAL INSPECTION AND QUALITY ASSURANCE, AS REQUIRED BY SECTION 1704 OF THE IBC, SHALL BE PROVIDED BY AN INDEPENDENT AGENCY EMPLOYED BY THE OWNER UNLESS WAIVED BY THE BUILDING OFFICIAL. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE REQUIRED INSPECTIONS. ALL TESTING AND INSPECTION REPORTS SHALL BE SENT TO THE ENGINEER FOR REVIEW. ITEMS REQUIRING SPECIAL INSPECTION AND QUALITY ASSURANCE ARE:
- CONCRETE FORMWORK (IBC SECTION 1705.3-12), IF NOTED
 - CONCRETE REINFORCING STEEL PLACEMENT (IBC SECTION 1705.3-1), IF NOTED
 - EPOXY ANCHORS (IBC SECTION 1705.3-4)

5 CONCRETE NOTES

- MATERIALS, UNLESS NOTED OTHERWISE:

A. NORMAL WEIGHT AGGREGATES	ASTM C33
B. REINFORCING STEEL	ASTM A615 GRADE 60 (FY = 60 KSI) USE GRADE 40 (FY = 40 KSI) FOR FIELD BENT DOWELS WITH SPACINGS INDICATED REDUCED BY 1/3.
C. DEFORMED BAR ANCHORS (DBA)	ASTM A496
D. HEADED STUD ANCHORS (HSA)	ASTM A108
E. ANCHOR RODS	ASTM F1554 GRADE 36 WITH ASTM A563 HEAVY HEX NUTS WITH HARDENED WASHERS
- COMPRESSIVE STRENGTHS OF CONCRETE AT 28 DAYS SHALL BE AS FOLLOWS:

A. FOOTINGS	3,000 PSI
B. INTERIOR SLABS ON GRADE	4,000 PSI
C. WALLS	3,000 PSI
D. ALL SITE CONCRETE	4,000 PSI
- ONLY ONE GRADE OR TYPE OF CONCRETE SHALL BE POURED ON THE SITE AT ANY GIVEN TIME.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, DETAILING, CARE, PLACEMENT AND REMOVAL OF ALL FORMWORK AND SHORING.
 - SUPPORTING FORMS AND SHORING SHALL NOT BE REMOVED UNTIL STRUCTURAL MEMBERS HAVE ACQUIRED SUFFICIENT STRENGTH TO SAFELY SUPPORT THEIR OWN WEIGHT AND ANY CONSTRUCTION LOAD TO WHICH THEY MAY BE SUBJECTED. IN NO CASE, HOWEVER, SHALL FORMS AND SHORING BE REMOVED IN LESS THAN 24 HOURS AFTER CONCRETE PLACEMENT.
- REINFORCEMENT SHALL HAVE THE FOLLOWING CONCRETE COVER:

CLEAR COVER	
CAST-IN-PLACE CONCRETE:	
A. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
B. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 THRU #18 BARS	2"
#5 AND SMALLER BARS	1-1/2"
C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
SLABS, WALLS, JOISTS; #11 BARS AND SMALLER	3/4"
BEAMS, COLUMNS; PRIMARY REINF., TIES, STIRRUPS, SPIRALS	1-1/2"
- CONSTRUCTION JOINTS AND CONTROL JOINTS:
 - PROVIDE A FORMED AND BEVELED 2 X 4 X CONTINUOUS KEYWAY IN ALL HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS, UNLESS NOTED OTHERWISE. IN ADDITION, ALL JOINTS SHALL BE INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF APPROXIMATELY 1/4-INCH.
 - CONTROL JOINTS SHALL BE INSTALLED IN SLABS ON GRADE SO THE LENGTH TO WIDTH RATIO OF THE SLAB IS NO MORE THAN 1.25:1. CONTROL JOINTS SHALL BE COMPLETED WITHIN 12 HOURS OF CONCRETE PLACEMENT. CONTROL JOINTS MAY BE INSTALLED BY:
 - SAW CUT A DEPTH OF 1/4 THE THICKNESS OF THE SLAB
 - TOOLED JOINTS A DEPTH OF 1/4 THE THICKNESS OF THE SLAB
 - INSTALL CONSTRUCTION OR CONTROL JOINTS IN SLABS ON GRADE AT A SPACING NOT TO EXCEED 30 TIMES THE SLAB THICKNESS IN ANY DIRECTION FOR UNREINFORCED SLABS AND 75 TIMES THE SLAB THICKNESS IN ANY DIRECTION FOR REINFORCED SLABS, UNLESS NOTED OTHERWISE. CONSTRUCTION JOINTS SHALL NOT EXCEED A DISTANCE OF 125'-0" O.C. IN ANY DIRECTION.
- CONSTRUCTION
 - USE CHAIRS OR OTHER SUPPORT DEVICES RECOMMENDED BY THE CRSI TO SUPPORT AND TIE REINFORCEMENT BARS AND WWF PRIOR TO PLACING CONCRETE. WWF SHALL BE CONTINUOUSLY SUPPORTED AT 36" O.C. MAXIMUM. REINFORCING STEEL FOR SLABS ON GRADE SHALL BE ADEQUATELY SUPPORTED ON PRECAST CONCRETE UNITS. LIFTING THE REINFORCING OFF THE GRADE DURING PLACEMENT OF CONCRETE IS NOT PERMITTED.
 - CONCRETE TO BE MECHANICALLY CONSOLIDATED DURING PLACEMENT PER ACI STANDARDS.
 - CONTRACTOR SHALL COORDINATE PLACEMENT OF ALL OPENINGS, CURBS, DOWELS, SLEEVES, CONDUITS, BOLTS, INSERTS AND OTHER EMBEDDED ITEMS PRIOR TO CONCRETE PLACEMENT.
 - ALL EMBEDS AND DOWELS SHALL BE SECURELY TIED TO FORMWORK OR TO ADJACENT REINFORCING PRIOR TO THE PLACEMENT OF CONCRETE.
 - NO PIPES, DUCTS, SLEEVES, ETC. SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER. PENETRATIONS THROUGH WALLS WHEN APPROVED SHALL BE BUILT INTO THE WALL PRIOR TO CONCRETE PLACEMENT. PENETRATIONS WILL NOT BE ALLOWED IN FOOTINGS OR GRADE BEAMS UNLESS DETAILED. PIPING SHALL BE ROUTED AROUND THESE ELEMENTS AND FOOTINGS STEPPED TO AVOID PIPING.
 - REINFORCING BARS SHALL NOT BE WELDED. DO NOT SUBSTITUTE REINFORCING BARS FOR DBAS OR HSAS.
- DETAILING:
 - LAP LENGTHS SHALL BE AS FOLLOWS:
 - 30 BAR DIAMETERS FOR #3 AND #4 BARS
 - 40 BAR DIAMETERS FOR #5 THROUGH #8 BARS
 - DO NOT SPlice STIRRUPS AND TIES.
 - DO NOT SPlice VERTICAL BARS IN RETAINING WALLS UNLESS SPECIFICALLY SHOWN.
 - AT JOINTS PROVIDE REINFORCING DOWELS TO MATCH THE MEMBER REINFORCING, UNLESS NOTED OTHERWISE.
 - AT ALL DISCONTINUOUS CONTROL OR CONSTRUCTION SLAB ON GRADE JOINTS, PROVIDE 2 - #4 X 48 INCHES.
 - PROVIDE CORNER BARS AT INTERSECTING WALL CORNERS USING THE SAME BAR SIZE AND SPACING AS THE HORIZONTAL WALL REINFORCING.
 - ALL VERTICAL REINFORCING SHALL BE DOWELED TO FOOTINGS, OR TO THE STRUCTURE BELOW WITH THE SAME SIZE AND SPACING AS THE VERTICAL REINFORCING FOR THE ELEMENT ABOVE. DOWELS EXTENDING INTO FOOTINGS SHALL TERMINATE WITH A 90 DEGREE STANDARD HOOK AND SHALL EXTEND TO WITHIN 4" OF THE BOTTOM OF THE FOOTING. FOOTING DOWELS (#8 BARS AND SMALLER) WITH HOOKS NEED NOT EXTEND MORE THAN 20" INTO FOOTINGS.
 - HORIZONTAL WALL REINFORCING SHALL TERMINATE AT ENDS OF WALLS AND OPENINGS INTO THE FAR END OF THE JAMB COLUMN WITH A 90-DEGREE STANDARD HOOK PLUS A 6 BAR DIAMETER EXTENSION. HORIZONTAL WALL REINFORCING SHALL BE CONTINUOUS THROUGH CONSTRUCTION AND CONTROL JOINTS.

6 DESIGN CRITERIA

1. BUILDING CODE	IBC 2018
2. WIND	
a. 3 Second Gust Velocity	115 mph
b. Exposure Category	C
3. SNOW	
a. Roof Snow Load	P _r = 25 psf min.
4. SEISMIC	
a. Occupancy	II
b. Seismic Design Category	B
c. Soil Site Class	D
d. Mapped Spectral Response Accel	S _s = 0.188
e. Site Coefficients	F _a = 1.6
f. Design Spectral Response Accel	S _{DS} = 0.201
g. Response Modification Factor	R = 6.5
h. System Overstrength Factor	Q _s = 2.5
i. Deflection Amplification Factor	C _d = 1.75
j. Seismic Response Coefficient	C _s = S _{DS} *I _w /R = 0.101
k. W	Dead Load of Structure
l. Base Shear	V = C _s *W = 0.101 W
5. ROOF LOAD	
a. Live Load	20 psf
b. Dead Load	15 psf

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Frontier Park, CSI Campus
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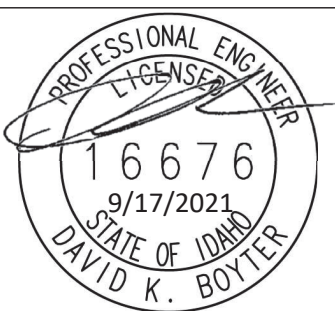


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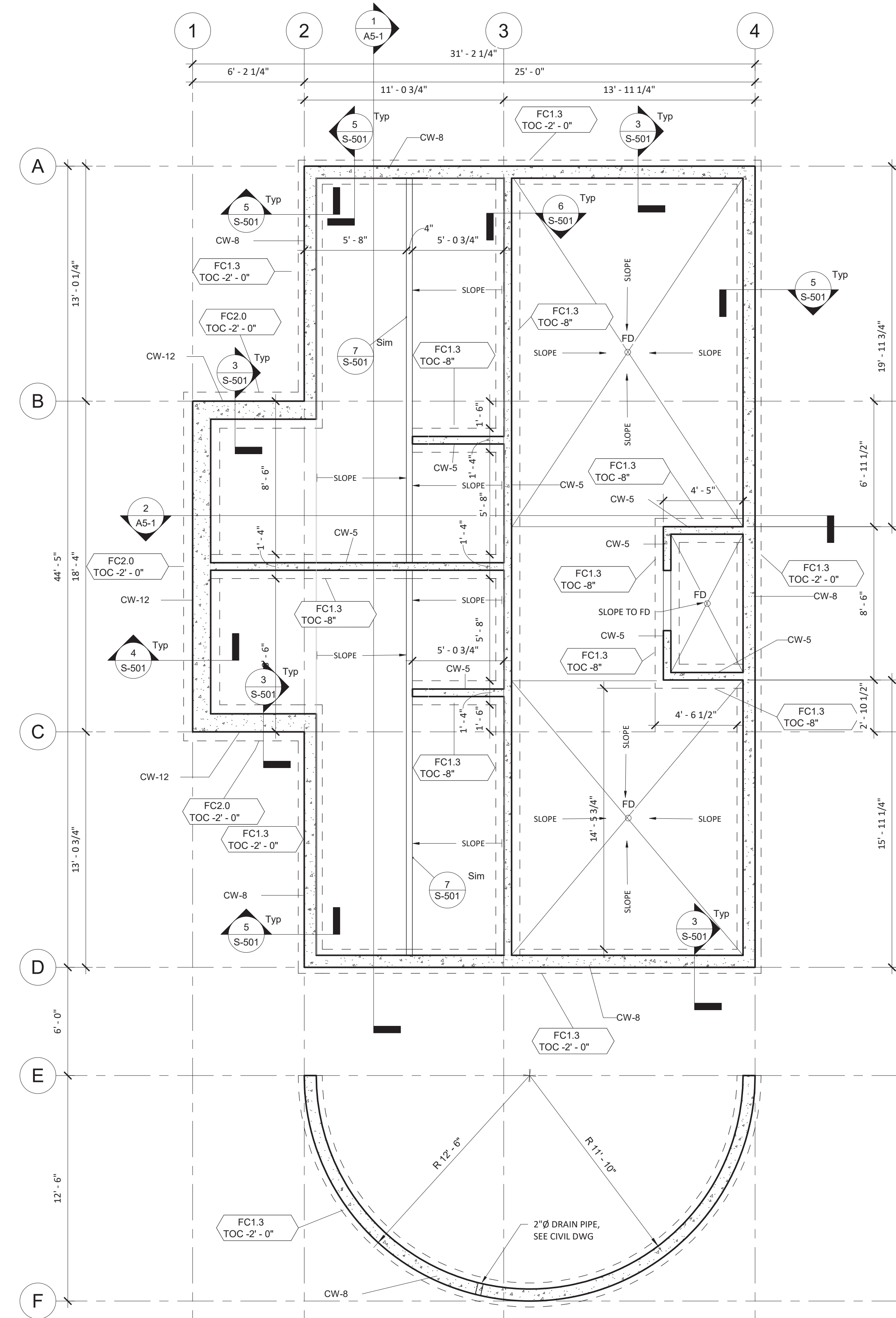


David K. Boyter, PE
Digitally signed by David K. Boyter, PE
Date: 2021.09.17 12:51:47 -06'00'

GENERAL STRUCTURAL NOTES

S-001

No.	Description	Date



CONCRETE SLAB ON GRADE:

- 4" CONCRETE SLAB THICKNESS
- SLAB SHALL BE OVER 4" FREE DRAINING GRANULAR FILL COMPLYING WITH ISPCW TYPE 1 (3/4" CRUSHED AGGREGATE). 4" GRANULAR FILL SHALL BE COMPACTED TO NO LESS THAN 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557.
- EXCAVATION SHALL REMOVE ORGANIC, LOOSE OR OBVIOUSLY COMPRESSIVE MATERIALS SHALL BE REMOVED PRIOR TO PLACEMENT OF 4" FREE DRAINING GRANULAR FILL. IF STRUCTURAL FILL IS REQUIRED TO BRING UP THE GRADE THEN THE STRUCTURAL FILL SHALL BE 6 INCH MINUS SELECT, CLEAN, GRANULAR SOIL WITH NO MORE THAN 50% OVERSIZED (GREATER THAN 3/4") MATERIAL AND NO MORE THAN 12% FINES (PASSING NO. 200 SIEVE). THESE FILL MATERIALS SHOULD BE PLACED IN LAYERS NOT TO EXCEED 12 INCHES IN LOOSE THICKNESS. STRUCTURAL FILL SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557.

MARKS AND SYMBOLS LEGEND

- SECTION MARK
- SHEET NUMBER
- INDICATES CONC. WALL, SEE SCH ON S-601
- INDICATES FOOTING AND TOP OF CONC. FOOTING (TOC), SEE PLAN AND SCH. ON S-601
NOTE VERIFY TOP OF CONC. ELEVATIONS WITH ARCH PLANS AND FIELD VERIFY FORST DEPTH.

FOUNDATION PLAN NOTES

1. VERIFY ALL FLOOR OPENINGS FOR MECHANICAL SHAFTS, STAIRS, ETC. WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. SEE ARCHITECTURAL DRAWINGS FOR COLUMN WALLS AND OPENING DIMENSIONS.
3. FIELD VERIFY ALL DIMENSIONS.
4. ARCHITECT TO VERIFY REQUIRED BEAM CLEARANCE
5. COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS ARCHITECTURAL AND MECHANICAL DRAWINGS.
6. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
7. SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATION.
8. ALL SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS (UNO).
9. SEE DETAILS 18/2/S-501 FOR CONDITION WHERE BURIED PIPES RUN PARALLEL AND PERPENDICULAR TO FOOTINGS.
10. SEE DETAIL 7/S-601 FOR TYPICAL CONTROL/CONSTRUCTION JOINTS IN CONCRETE SLAB ON GRADE.
11. SEE DETAIL 5/S-601 FOR SLAB REINFORCING WHERE CONTROL JOINTS ARE DISCONTINUOUS.
12. SEE DETAIL 6/S-601 FOR ADDITIONAL REINFORCING AT OPENINGS IN CONCRETE WALLS.
13. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS FOR ALL WALLS AND OPENINGS.

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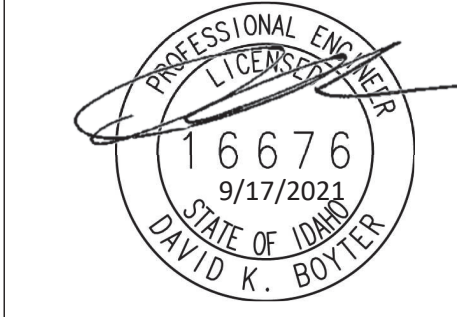
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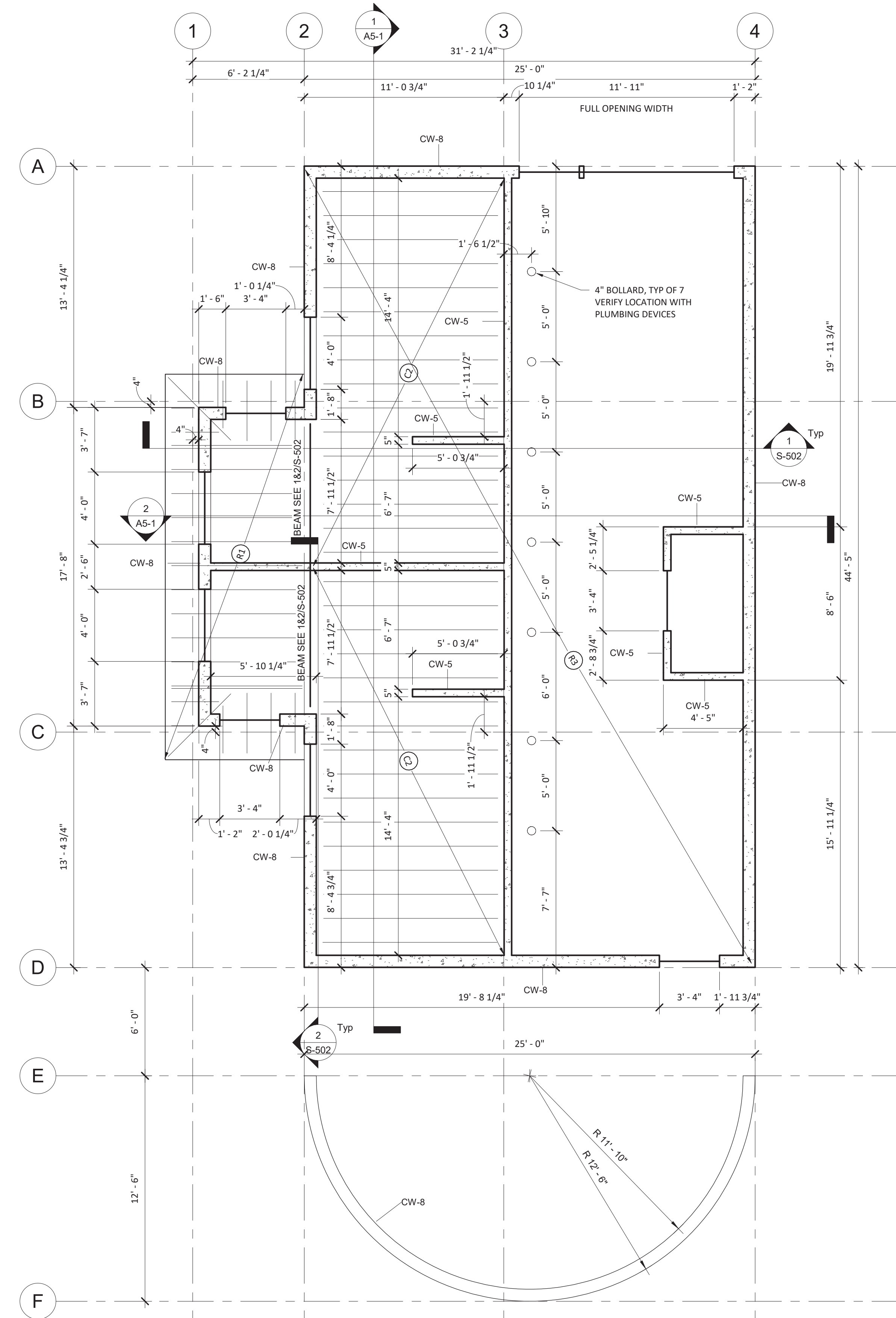


FOUNDATION PLAN

S-101

No.	Description	Date

1 FOUNDATION PLAN
1/4" = 1'-0"



OPENING NOTE:

- REINFORCING AROUND OPENINGS SHALL BE PER DETAIL 6/S-601
- VERIFY OPENING DIM. IN CONCRETE WALL WITH ARCH PLANS AND DOORS/WINDOWS SUPPLIER

FRAMING KEY:

- (R1) 2X10 DF #2 OR BETTER @ 24" O.C.
- (C2) 2X6 DF #2 OR BETTER @ 16" O.C.
- (R3) METAL BUILDING CURVED ROOF DESIGN BY OTHERS

MARKS AND SYMBOLS LEGEND

	SECTION MARK
	SHEET NUMBER
CW-X	INDICATES CONC. WALL, SEE SCH ON S-601
	INDICATES FOOTING AND TOP OF CONC. FOOTING (TOC), SEE PLAN AND SCH. ON S-601 *NOTE* VERIFY TOP OF CONC. ELEVATIONS WITH ARCH PLANS AND FIELD VERIFY FORST DEPTH.

- PLAN NOTES**
- VERIFY ALL FLOOR OPEINGS FOR MECHANICAL SHAFTS, STAIRS, ETC. WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
 - SEE ARCHITECTURAL DRAWINGS FOR COLUMN WALLS AND OPENING DIMENSIONS.
 - FIELD VERIFY ALL DIMENSIONS.
 - ARCHITECT TO VERIFY REQUIRED BEAM CLEARANCE
 - COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS ARCHITECTURAL AND MECHANICAL DRAWINGS.
 - SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
 - SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATION.
 - ALL SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS (UNO).
 - SEE DETAILS 1&2/S-501 FOR CONDITION WHERE BURIED PIPES RUN PARALLEL AND PERPENDICULAR TO FOOTINGS.
 - SEE DETAIL 7/S-601 FOR TYPICAL CONTROL/CONSTRUCTION JOINTS IN CONCRETE SLAB ON GRADE.
 - SEE DETAIL 5/S-601 FOR SLAB REINFORCING WHERE CONTROL JOINTS ARE DISCONTINUOUS.
 - SEE DETAIL 6/S-601 FOR ADDITIONAL REINFORCING AT OPENINGS IN CONCRETE WALLS.
 - SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS FOR ALL WALLS AND OPENINGS.

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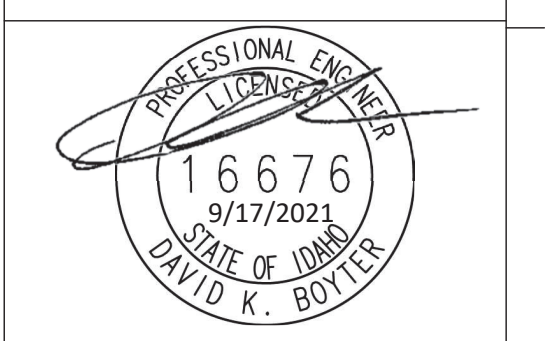
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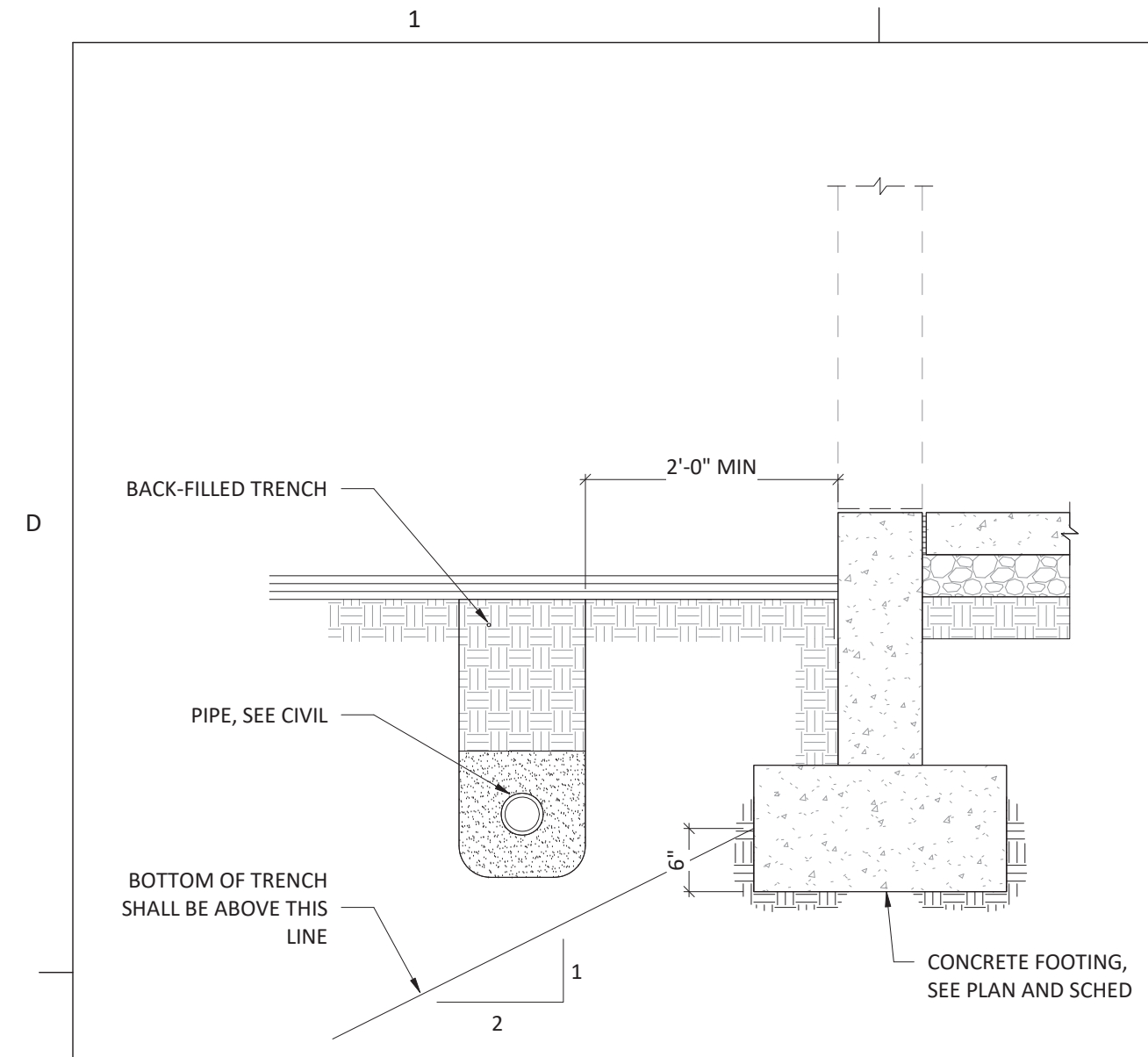


ROOF FRAMING PLAN

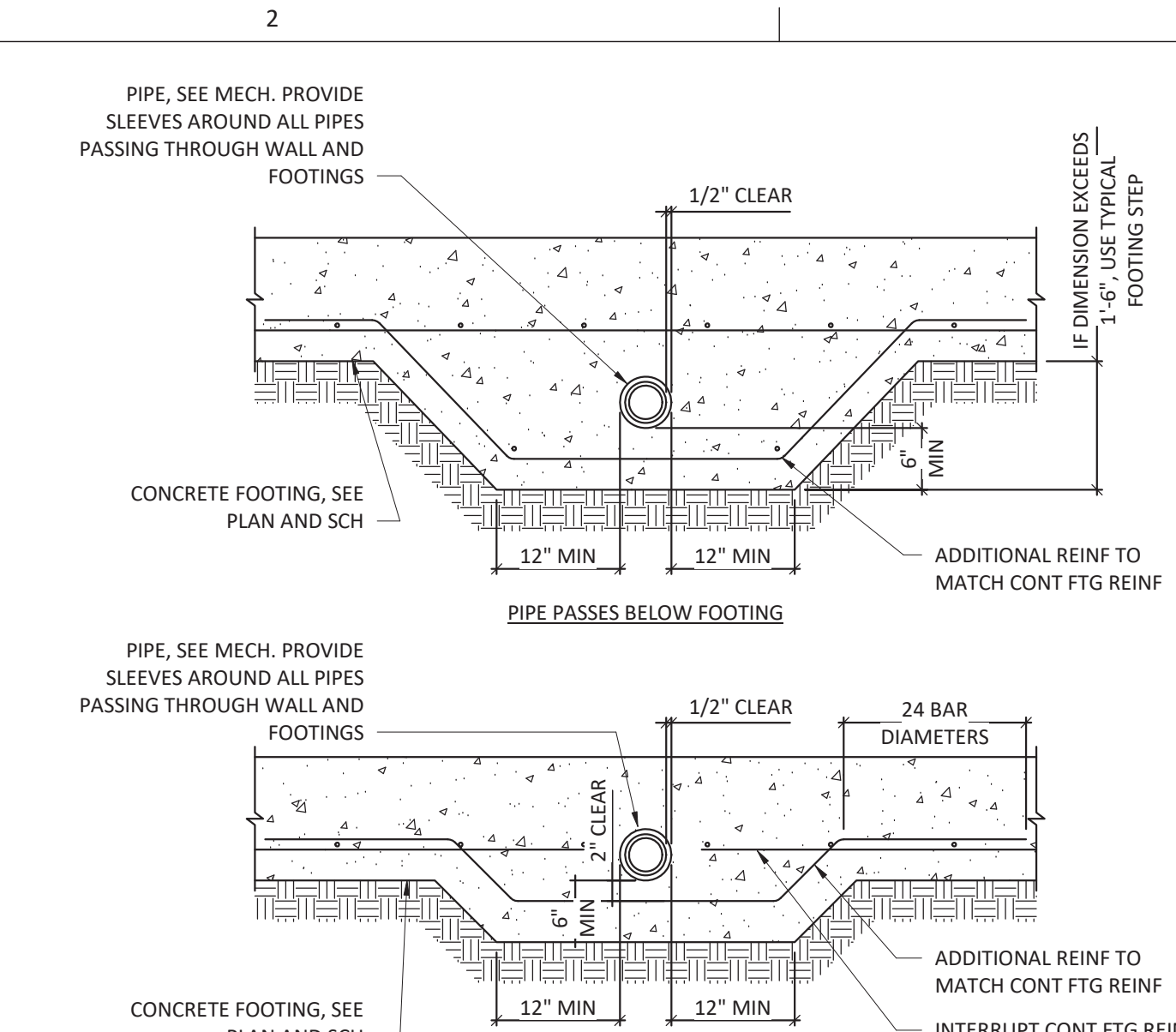
S-102

No.	Description	Date

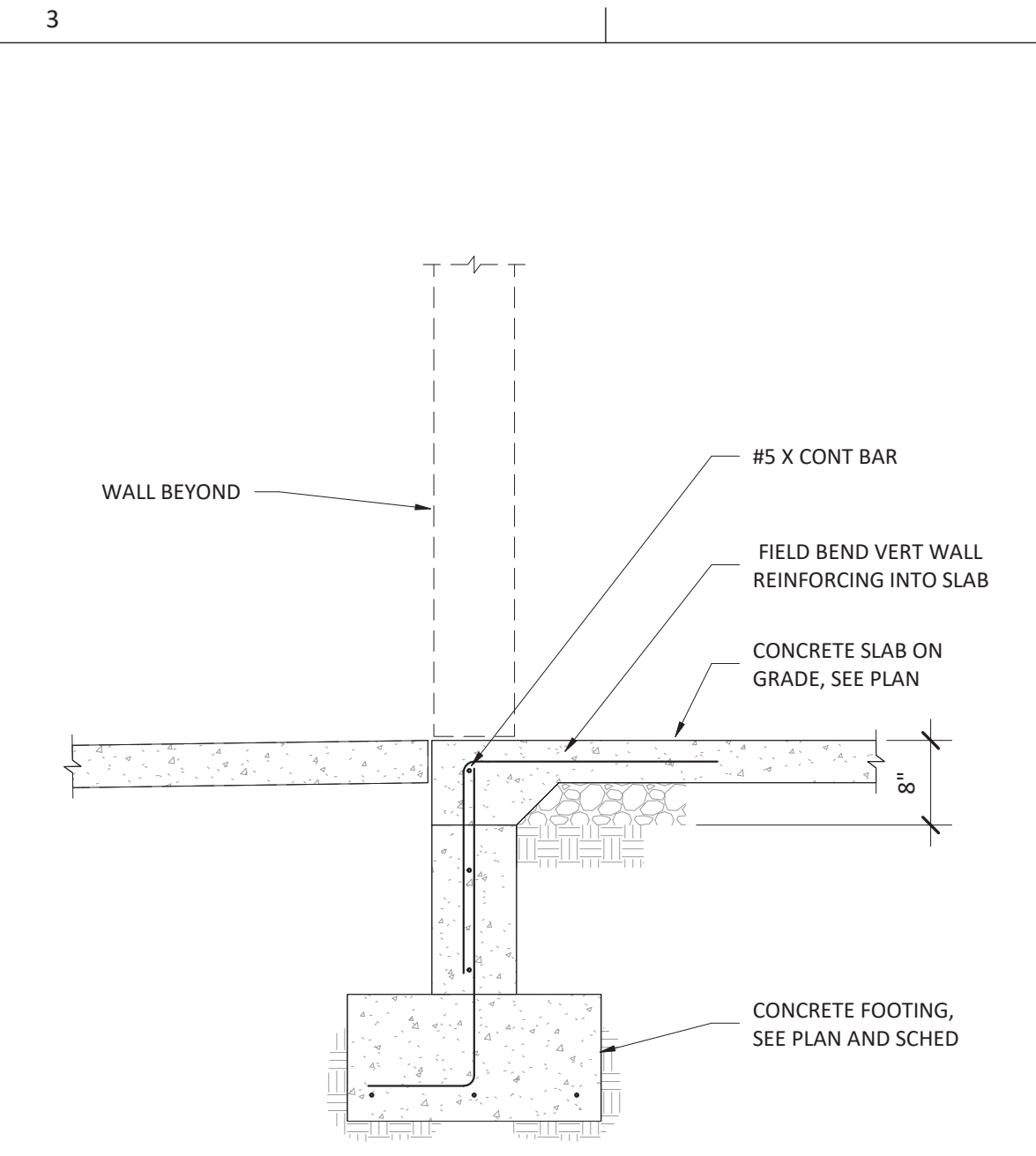
1 ROOF FRAMING PLAN
1/4" = 1'-0"



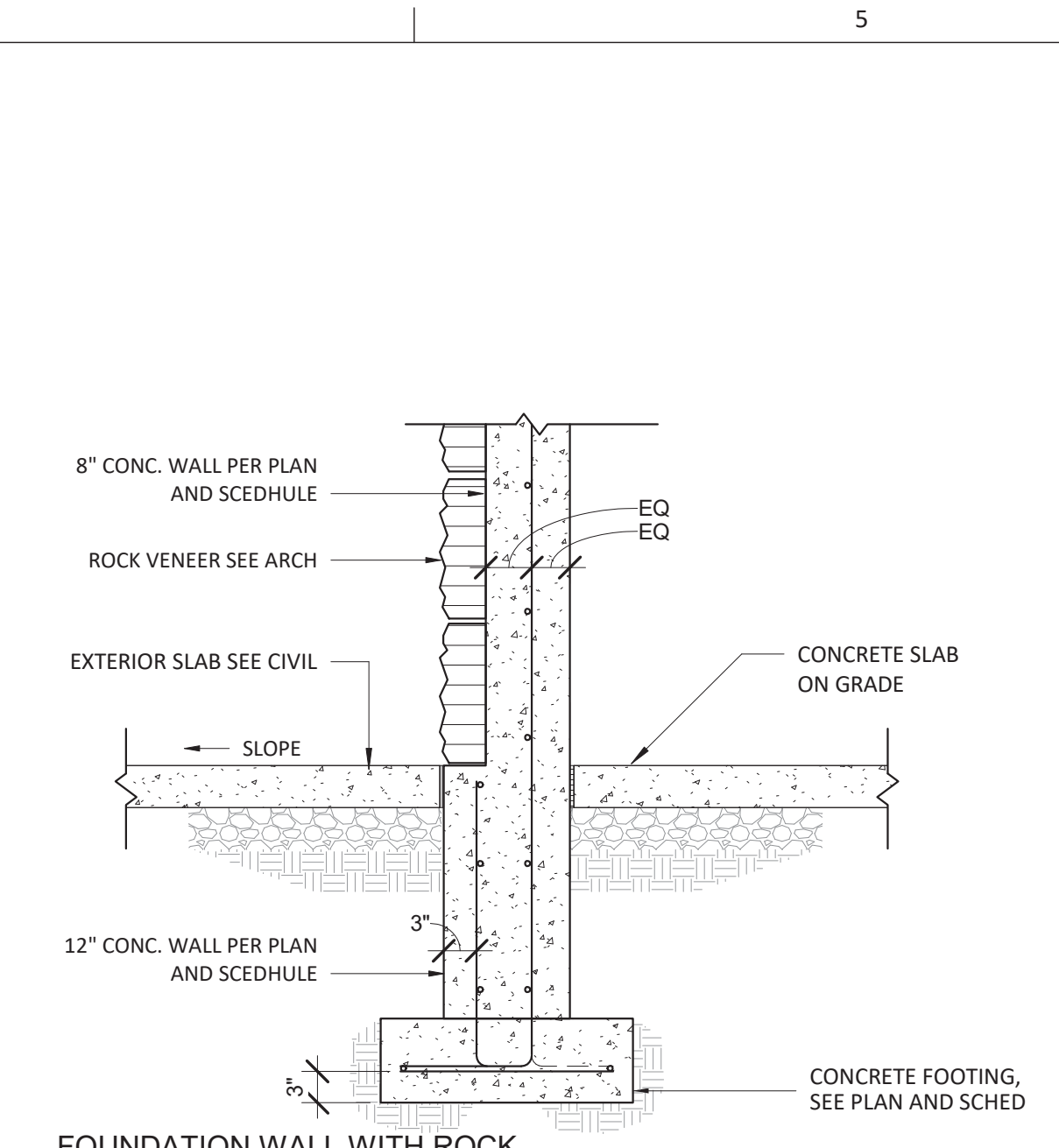
① **CONDITION AT PIPE PARALLEL TO CONCRETE FOOTING**
3/4" = 1'-0"



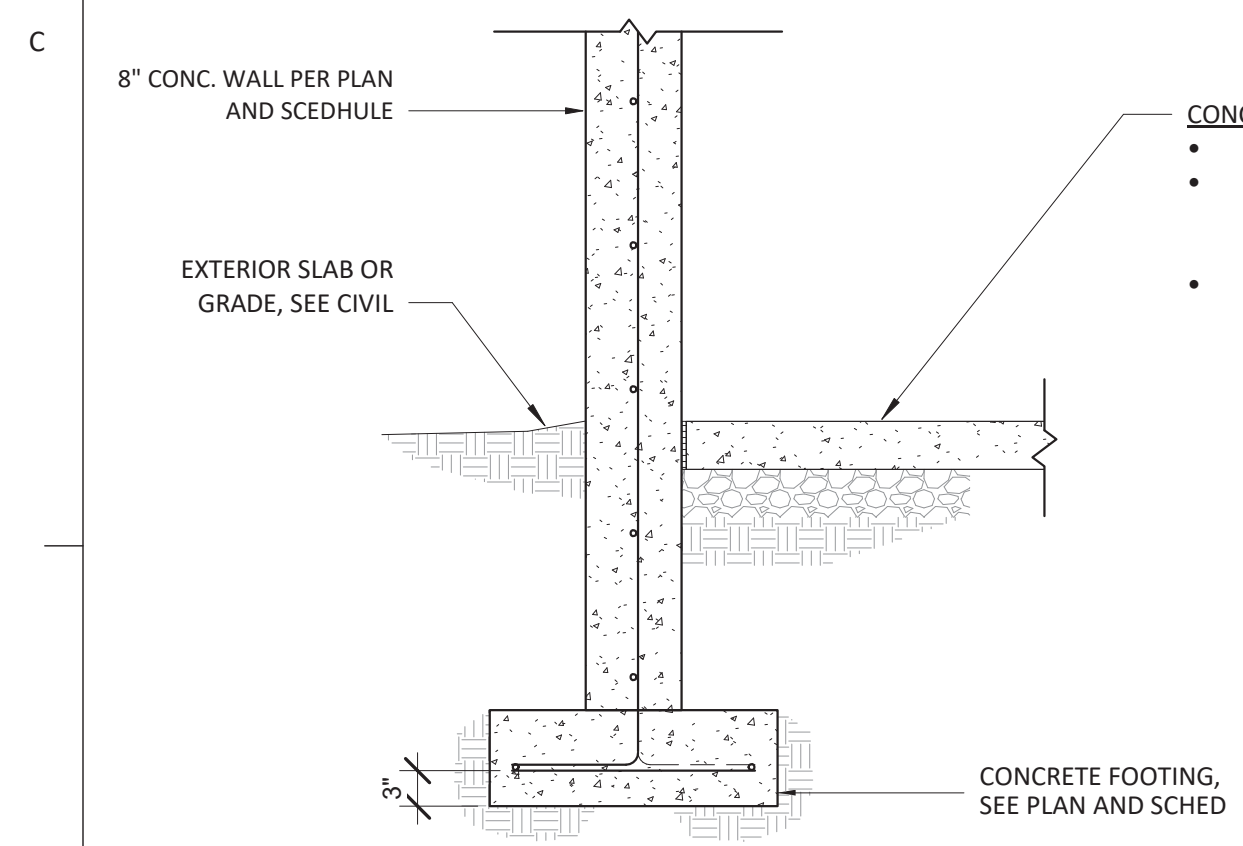
② **CONDITION AT PIPE PERP. TO CONC. FTG.**
3/4" = 1'-0"



③ **CONCRETE FOUNDATION AT OPENING**
3/4" = 1'-0"

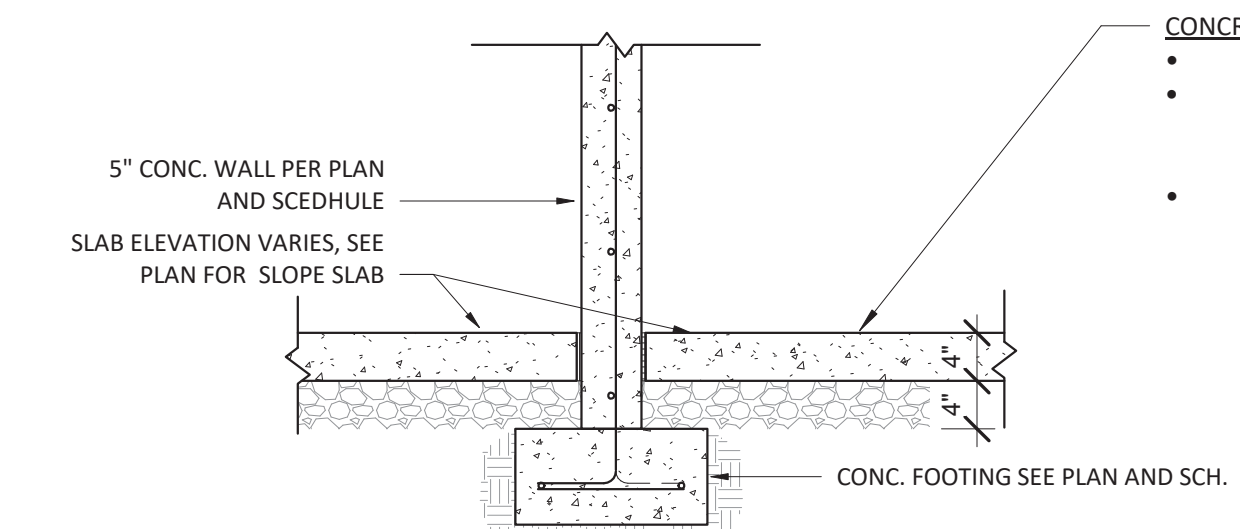


④ **FOUNDATION WALL WITH ROCK VENEER**
3/4" = 1'-0"



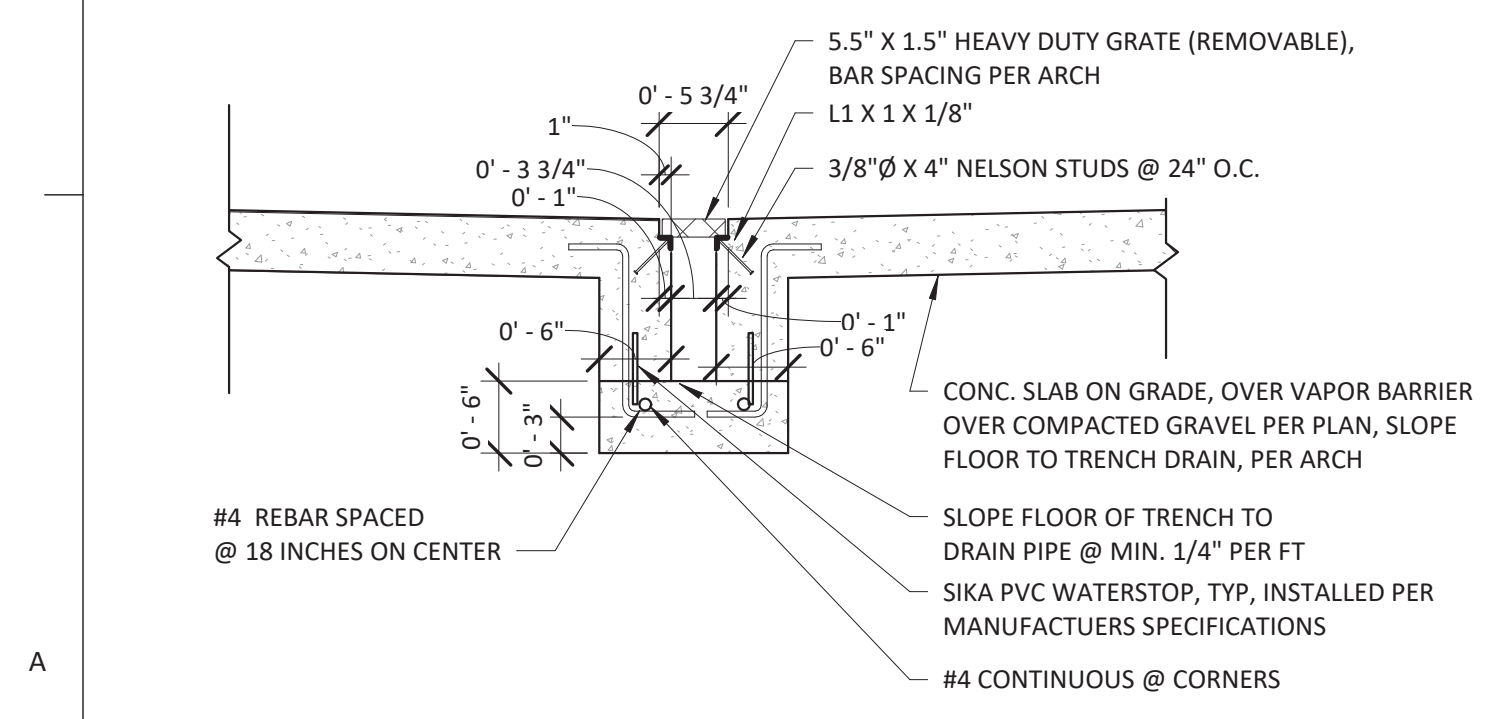
⑤ **FOUNDATION WALL AT SLAB ON GRADE**
3/4" = 1'-0"

- CONCRETE SLAB ON GRADE:**
- 4" CONCRETE SLAB THICKNESS
 - SLAB SHALL BE OVER 4" FREE DRAINING GRANULAR FILL COMPLYING WITH ISPCW TYPE 1 (3/4" CRUSHED AGGREGATE). 4" GRANULAR FILL SHALL BE COMPACTED TO NO LESS THAN 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557.
 - EXCAVATION SHALL REMOVE ORGANIC, LOOSE OR OBVIOUSLY COMPRESSIVE MATERIALS SHALL BE REMOVED PRIOR TO PLACEMENT OF 4" FREE DRAINING GRANULAR FILL. IF STRUCTURAL FILL IS REQUIRED TO BRING UP THE GRADE THEN THE STRUCTURAL FILL SHALL BE 6 INCH MINUS SELECT, CLEAN, GRANULAR SOIL WITH NO MORE THAN 50% OVERSIZED (GREATER THAN 3/4") MATERIAL AND NO MORE THAN 12% FINES (PASSING NO. 200 SIEVE). THESE FILL MATERIALS SHOULD BE PLACED IN LAYERS NOT TO EXCEED 12 INCHES IN LOOSE THICKNESS. STRUCTURAL FILL SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557.

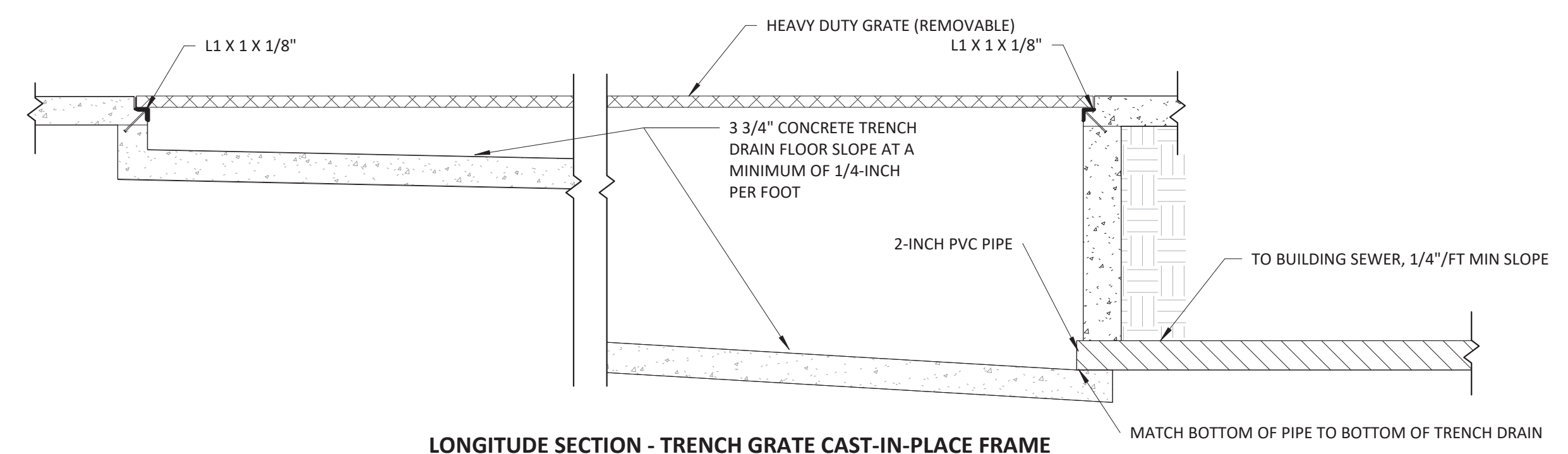


⑥ **INTERIOR FOUNDATION WALL AT SLAB ON GRADE**
3/4" = 1'-0"

- CONCRETE SLAB ON GRADE:**
- 4" CONCRETE SLAB THICKNESS
 - SLAB SHALL BE OVER 4" FREE DRAINING GRANULAR FILL COMPLYING WITH ISPCW TYPE 1 (3/4" CRUSHED AGGREGATE). 4" GRANULAR FILL SHALL BE COMPACTED TO NO LESS THAN 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557.
 - EXCAVATION SHALL REMOVE ORGANIC, LOOSE OR OBVIOUSLY COMPRESSIVE MATERIALS SHALL BE REMOVED PRIOR TO PLACEMENT OF 4" FREE DRAINING GRANULAR FILL. IF STRUCTURAL FILL IS REQUIRED TO BRING UP THE GRADE THEN THE STRUCTURAL FILL SHALL BE 6 INCH MINUS SELECT, CLEAN, GRANULAR SOIL WITH NO MORE THAN 50% OVERSIZED (GREATER THAN 3/4") MATERIAL AND NO MORE THAN 12% FINES (PASSING NO. 200 SIEVE). THESE FILL MATERIALS SHOULD BE PLACED IN LAYERS NOT TO EXCEED 12 INCHES IN LOOSE THICKNESS. STRUCTURAL FILL SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557.



⑦ **CROSSWISE SECTION - TRENCH GRATE CAST-IN-PLACE FRAME**
3/4" = 1'-0"



LONGITUDE SECTION - TRENCH GRATE CAST-IN-PLACE FRAME

No.	Description	Date

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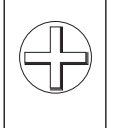
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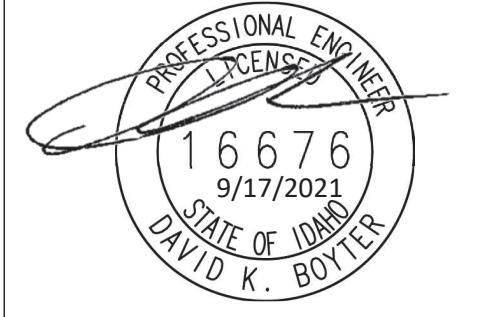
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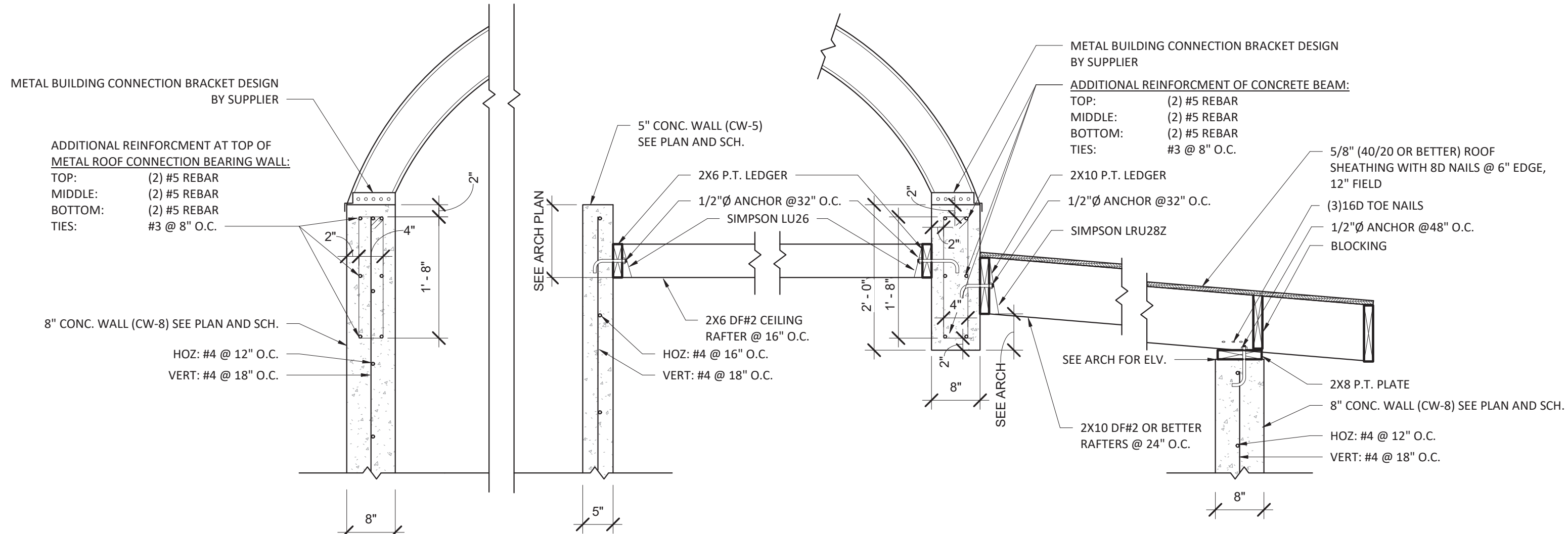
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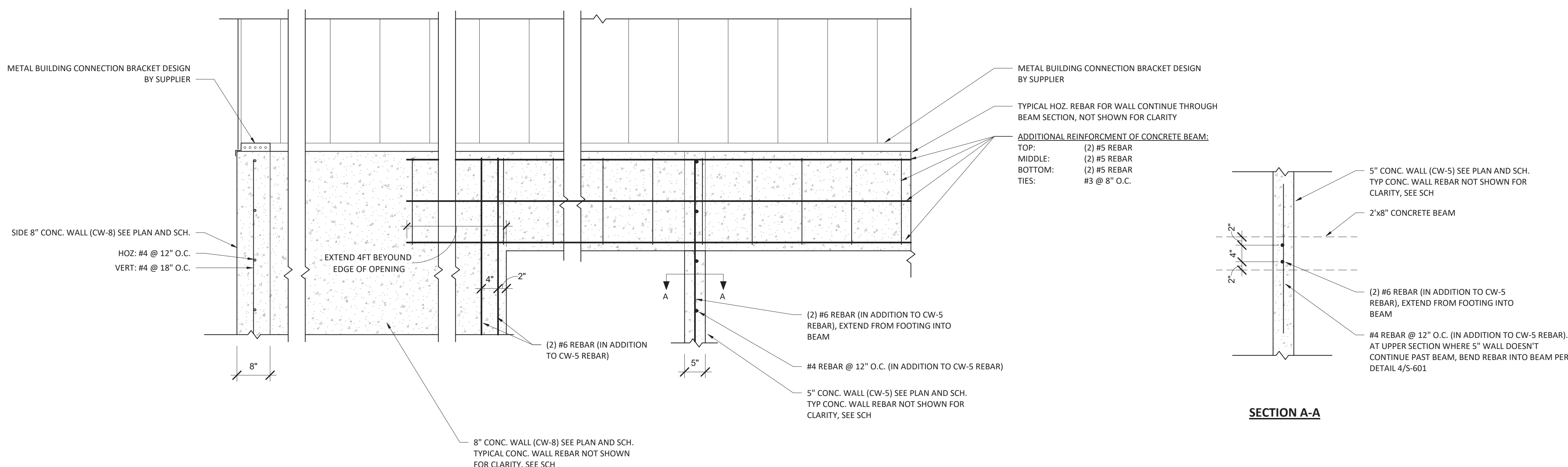


DETAILS

S-501



1 ROOF AND CEILING TO CONC. WALL
3/4" = 1'-0"



2 CONCRETE BEAM TO 5" WALL CONNECTION
3/4" = 1'-0"

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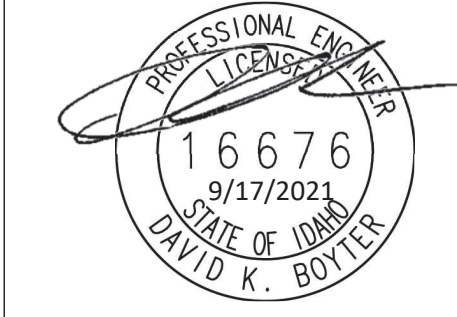
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DETAILS

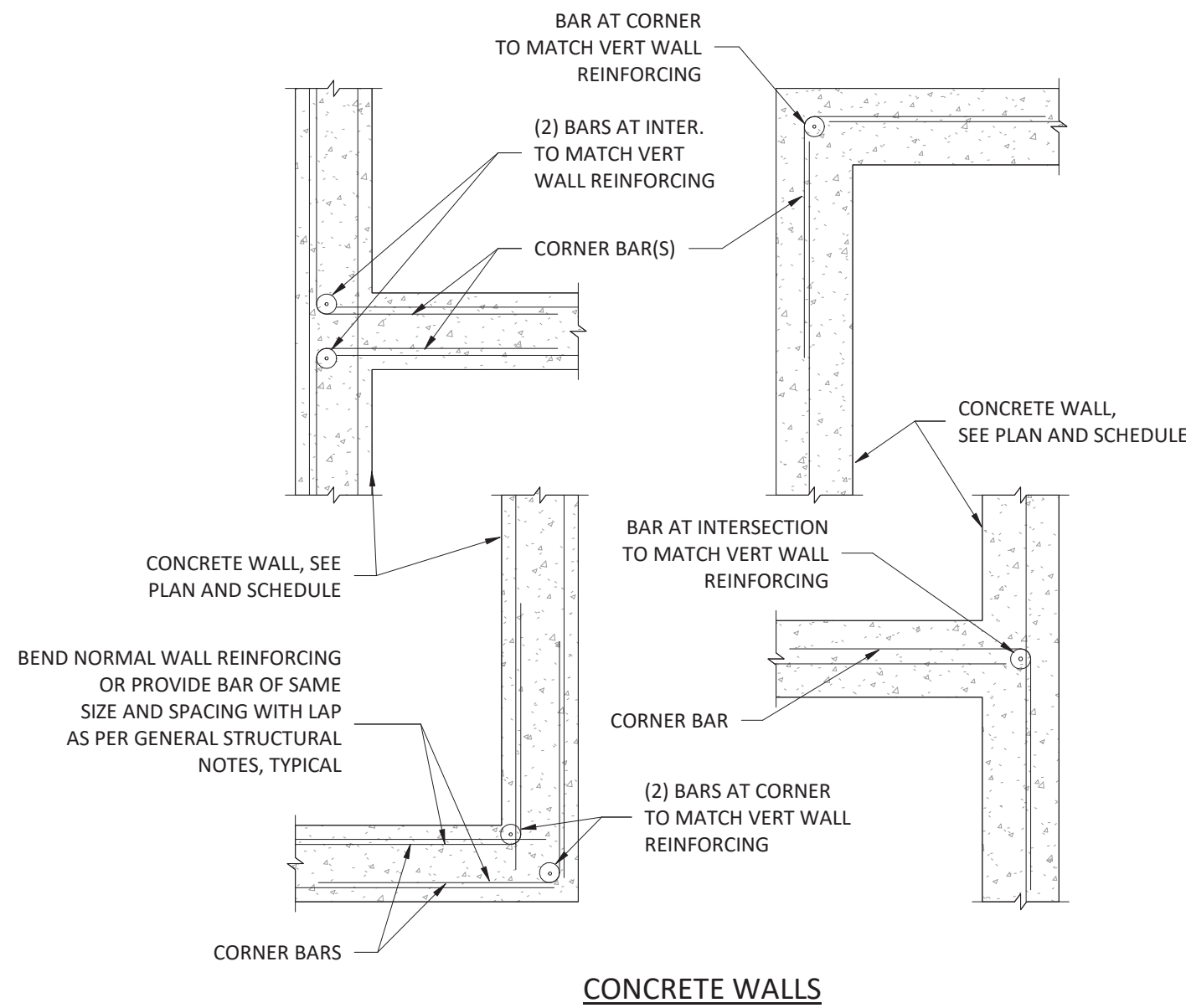
S-502

No.	Description	Date

DIAGRAM	CONCRETE FOOTING SCHEDULE										MAX. DESIGN LOAD @ T.O.F.		
	MARK	WIDTH	LENGTH	DEPTH	REINFORCING CROSSWISE				REINFORCING LENGTHWISE				
					No.	SIZE	LENGTH	SPACING	No.	SIZE		LENGTH	SPACING
	FS1.5	1'-6"	1'-6"	10"	2	#4	1'-0"	EQ	2	#4	1'-0"	EQ	2,700 LB
	FS1.75	1'-9"	1'-9"	10"	2	#4	1'-3"	EQ	2	#4	1'-3"	EQ	3,675 LB
	FS2.0	2'-0"	2'-0"	10"	3	#4	1'-6"	EQ	3	#4	1'-6"	EQ	4,800 LB
	FS2.25	2'-3"	2'-3"	10"	3	#4	1'-9"	EQ	3	#4	1'-9"	EQ	6,075 LB
	FS2.5	2'-6"	2'-6"	10"	3	#4	2'-0"	EQ	3	#4	2'-0"	EQ	7,500 LB
	FS2.75	2'-9"	2'-9"	10"	3	#4	2'-3"	EQ	3	#4	2'-3"	EQ	9,075 LB
	FS3.0	3'-0"	3'-0"	10"	4	#4	2'-6"	EQ	4	#4	2'-6"	EQ	10,800 LB
	FS3.25	3'-3"	3'-3"	10"	4	#4	2'-9"	EQ	4	#4	2'-9"	EQ	12,675 LB
	FS3.5	3'-6"	3'-6"	10"	4	#4	3'-0"	EQ	4	#4	3'-0"	EQ	14,700 LB
	FS3.75	3'-9"	3'-9"	10"	5	#4	3'-3"	EQ	5	#4	3'-3"	EQ	16,875 LB
	FS4.0	4'-0"	4'-0"	10"	5	#4	3'-6"	EQ	5	#4	3'-6"	EQ	19,200 LB
	FS4.25	4'-3"	4'-3"	10"	5	#4	3'-9"	EQ	5	#4	3'-9"	EQ	21,675 LB
	FS4.5	4'-6"	4'-6"	12"	5	#5	4'-0"	EQ	5	#5	4'-0"	EQ	24,300 LB
	FS4.75	4'-9"	4'-9"	12"	5	#5	4'-3"	EQ	5	#5	4'-3"	EQ	27,075 LB
	FS5.0	5'-0"	5'-0"	12"	5	#5	4'-6"	EQ	5	#5	4'-6"	EQ	30,000 LB
FS5.25	5'-3"	5'-3"	12"	5	#5	4'-9"	EQ	5	#5	4'-9"	EQ	33,075 LB	
FS5.5	5'-6"	5'-6"	12"	5	#5	5'-0"	EQ	5	#5	5'-0"	EQ	36,300 LB	
FS5.75	5'-9"	5'-9"	14"	6	#5	5'-3"	EQ	6	#5	5'-3"	EQ	39,675 LB	
FS6.0	6'-0"	6'-0"	14"	6	#5	5'-6"	EQ	6	#5	5'-6"	EQ	43,200 LB	

- CONCRETE FOOTING NOTES:**
- COMPRESSIVE STRENGTHS OF CONCRETE AT 28 DAYS SHALL BE 3,000 PSI
 - PLACE ALL FOOTING REINFORCING IN THE BOTTOM OF THE FOOTING WITH 3" CLEAR CONCRETE COVER (LINO).
 - TOP REINFORCING, WHERE OCCURS, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" MINIMUM CONCRETE COVER.
 - IF FOOTINGS ARE EARTH-FORMED, FOOTINGS SHALL BE 6" LONGER AND WIDER THAN SCHEDULED.
 - SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
 - SOME SCHEDULED FOOTINGS MAY NOT BE USED, SEE FOOTING AND FOUNDATION PLAN FOR FOOTING MARKS.
 - THIS SCHEDULE ASSUMES A SOIL BEARING PRESSURE OF 1,500 PSF
 - INFORMATION PROVIDED HERE IS DESIGNED BY NES AND MAY ONLY BE USED BY PERMISSION.
 - THIS SCHEDULE WAS ADOPTED AS PART OF NES STANDARDS IN JULY 2018, FULL CALCULATION PACKAGE ON FILE IN NES MAIN OFFICE.

1 CONC. FOOTING SCHEDULE



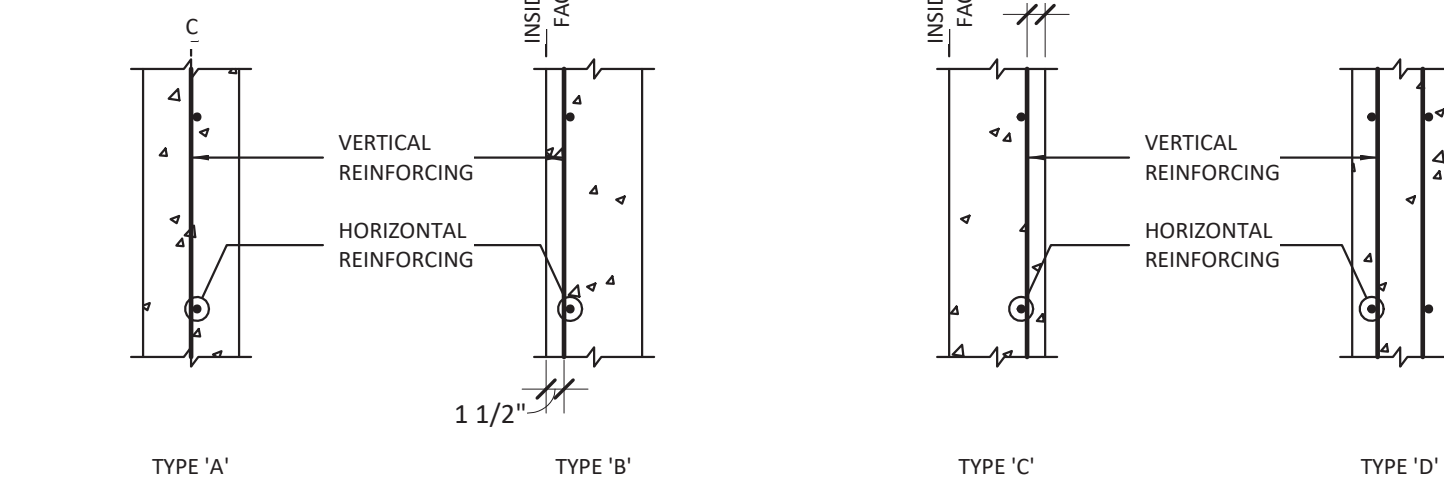
4 TYP CORNER WALL REINFORCING

CONCRETE WALL SCHEDULE						
MARK	THICKNESS	REINFORCING			WALL TYPE	COMMENTS
		VERTICAL	HORIZONTAL	TOP AND BOTTOM		
CW-5	5"	#4 BARS AT 18" O.C.	#4 BARS AT 16" O.C.	(1) #4 BAR	'A'	
CW-8	8"	#4 BARS AT 18" O.C.	#4 BARS AT 12" O.C.	(1) #4 BAR	'A'	
CW-12	12"	#4 BARS AT 18" O.C. E.F.	#4 BARS AT 16" O.C. E.F.	(1) #4 BAR	'D'	

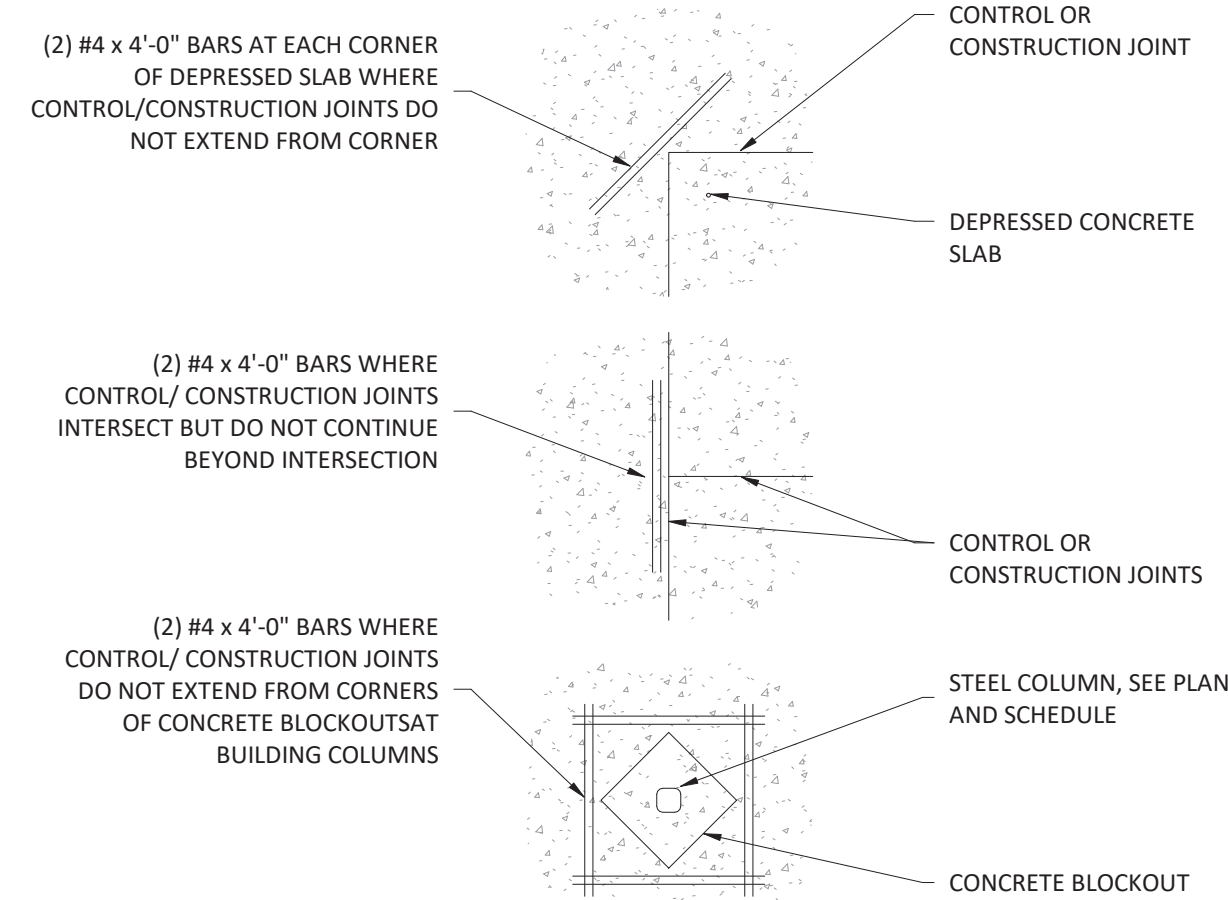
- CONCRETE FOUNDATION WALL NOTES:**
- SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
 - CONCRETE FOUNDATION WALLS NOT DESIGNATED ON PLANS SHALL BE REINFORCED AS FOLLOWS:

THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
6"	#4 BARS AT 18" O.C.	#4 BARS AT 16" O.C.
8"	#4 BARS AT 18" O.C.	#4 BARS AT 12" O.C.
10"	#4 BARS AT 16" O.C. E.F.	#5 BARS AT 15" O.C.
12"	#4 BARS AT 18" O.C. E.F.	#4 BARS AT 16" O.C. E.F.

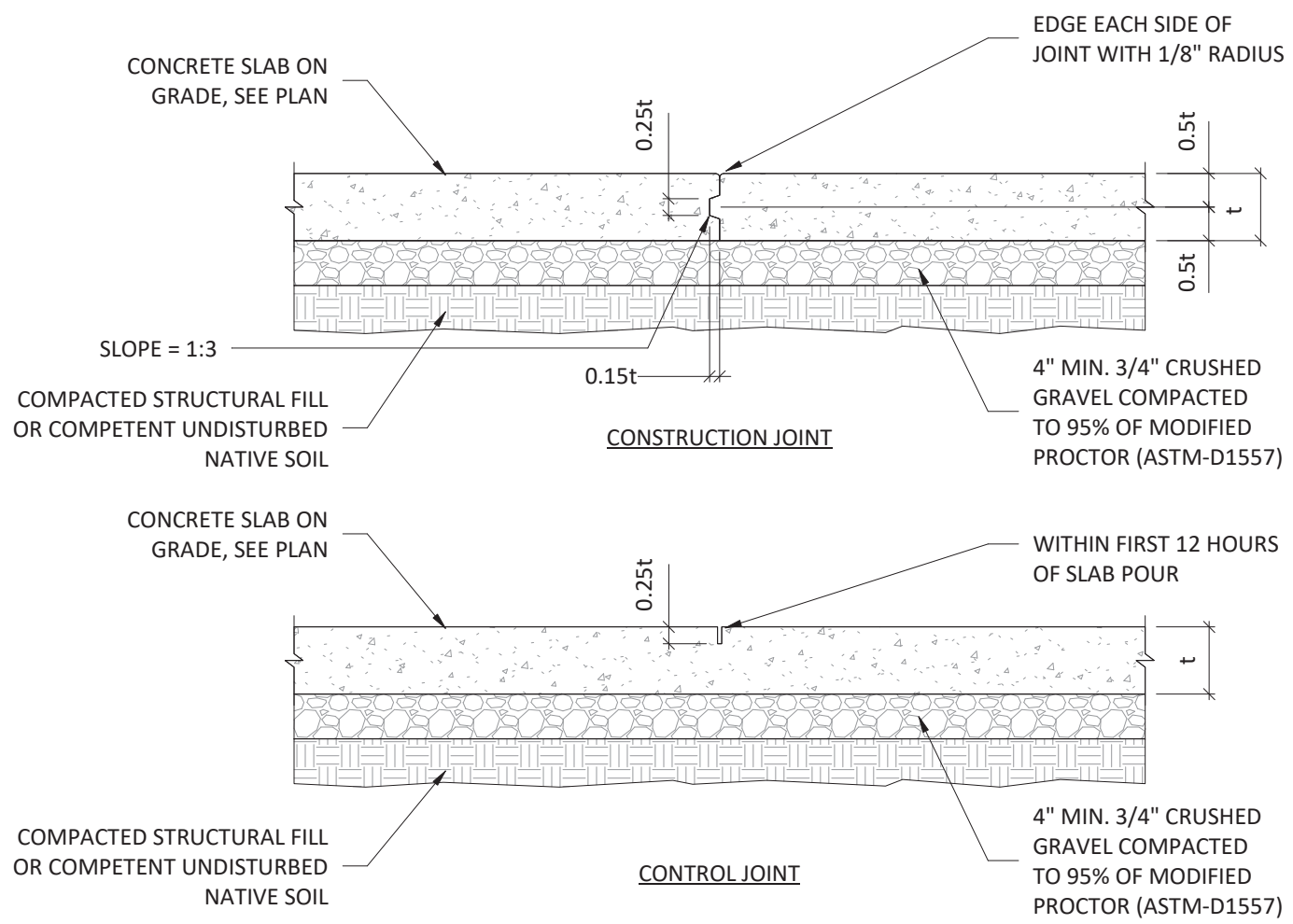
WALL REINFORCING PLACEMENT TYPES:



3 CONC. WALL SCHEDULE

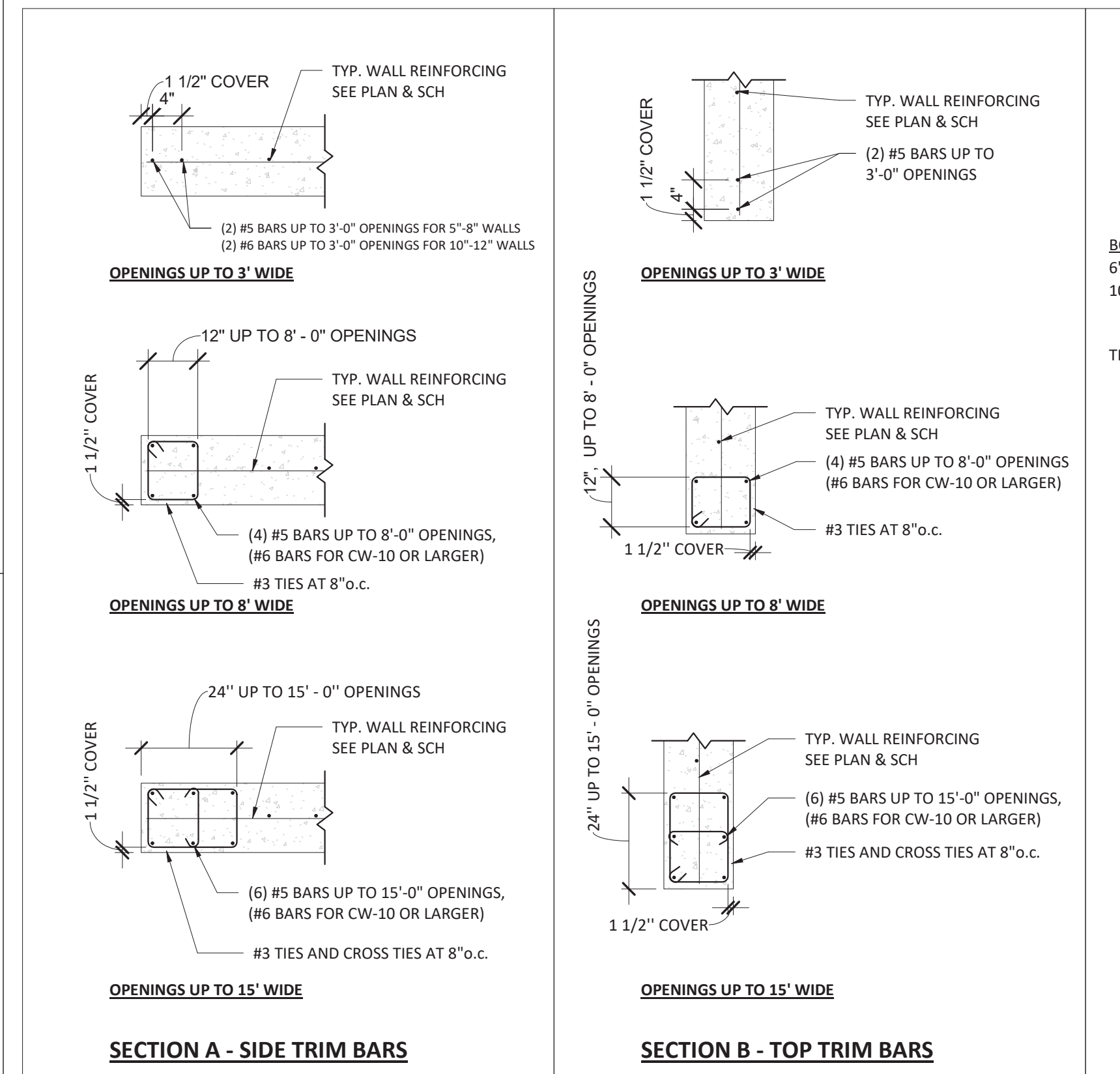


5 LOCATIONS REQUIRING ADDITIONAL SLAB REINFORCING

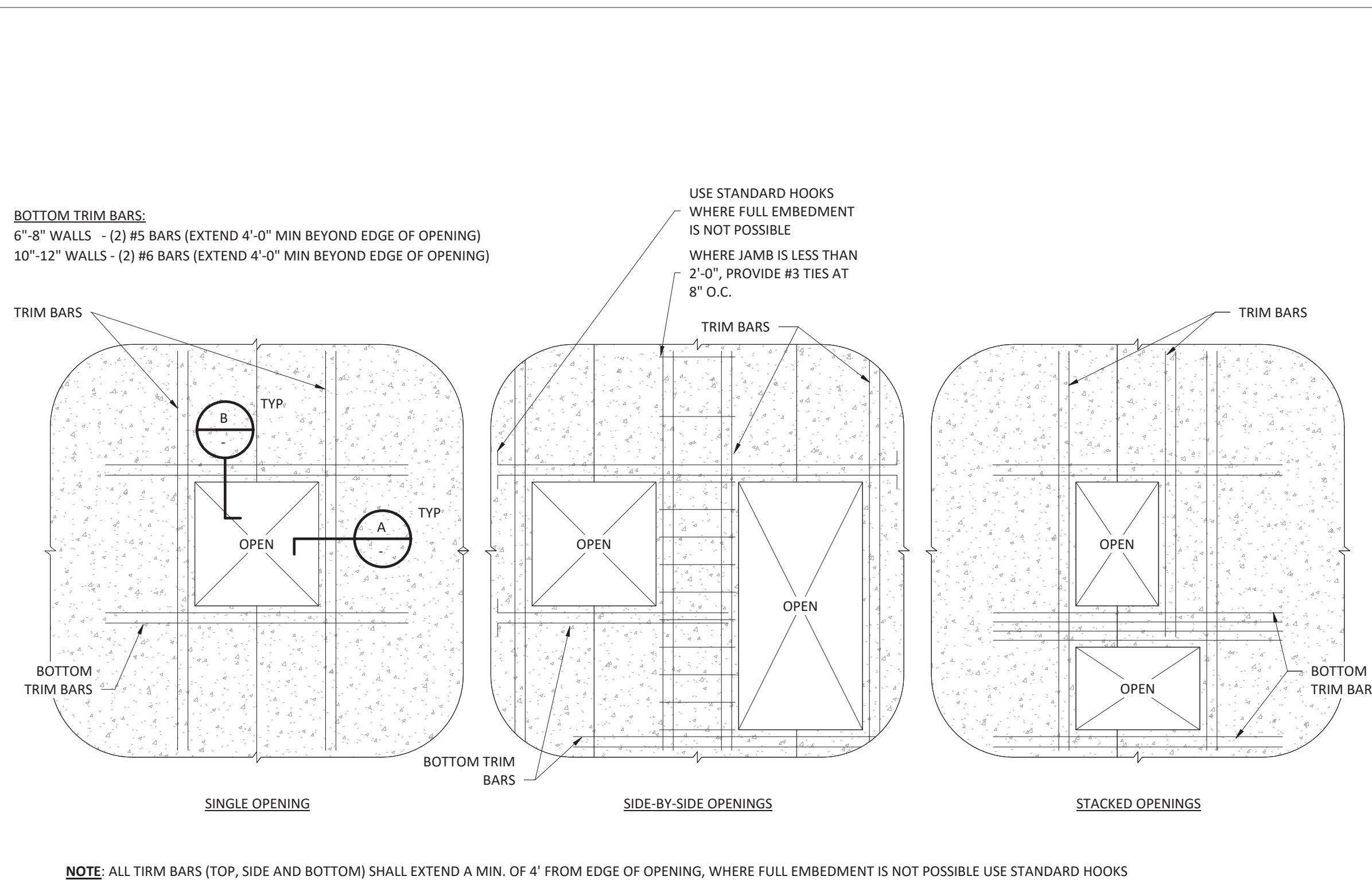


7 TYP SLAB ON GRADE JOINT DETAIL

No.	Description	Date



6 TYP REINFORCING OPENINGS IN CONC WALLS



NOTE: ALL TRIM BARS (TOP, SIDE AND BOTTOM) SHALL EXTEND A MIN. OF 4" FROM EDGE OF OPENING, WHERE FULL EMBEDMENT IS NOT POSSIBLE USE STANDARD HOOKS

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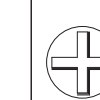
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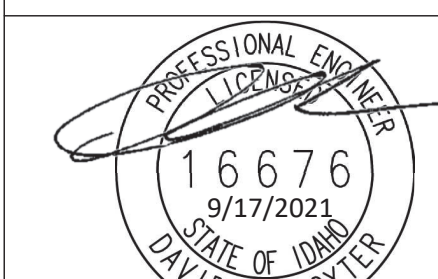
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SCHEDULES

S-601