



CITY OF BURNET  
ENGINEERING

**ADDENDUM NO. 4**

November 27, 2023

**Burnet City Hall – RFP 2023-012  
PID: CIPSP-2022B**

Ladies/Gentlemen:

The City of Burnet issues this Addendum on the above captioned project. This Addendum details the changes and the respective bid document pages which were added and/or changed. Each bidder is required to acknowledge receipt of this Addendum, on the form included in the Addendum below. Failure to acknowledge receipt of this Addendum in your bid proposal will result in your bid not being read.

Please sign and **return** this Addendum with your sealed bid packet at time and location as advertised on the Invitation to Bid for this project. Addendum should be located at the beginning of the packet. Failure to acknowledge all the addenda issued will result in bid dismissal.

DESIGN ENGINEER APPROVAL:

Eric Belaj, PE, CFM  
*City Engineer*

Addendum items and pertaining attachment will be included in the following pages.

BIDDER ADDENDUM ACKNOWLEDGMENT BELOW:

\_\_\_\_\_  
*(Company Name)*

\_\_\_\_\_  
*(Bidder Rep. Name)*

By: \_\_\_\_\_  
*(Signature)*

Date: \_\_\_\_\_



CITY OF BURNET  
ENGINEERING

1. **Bonds**: No Change
2. **Dates**: No Change. See previous Addendums 1-3.
3. **Questions and Answers**: This Bid Addendum also answers questions posed by contractors throughout the bid process and at the pre-bid meeting as follows:
  - a. *Question from Bidder. See CIVAST*
    - a. Answer. See CivCast
4. **Bid Document Changes**: This item outlines changes to the Bid Documents:
  - a) Revisions to the structural foundation design to add piers to the design in lieu of previous design.
  - b) The addendum clarifies the discrepancy between Geotechnical report and Structural Foundation design as noted below:
    - Existing soil must be removed under the building area or other structures as noted in the updated Sheet No. S0.01.
    - Drilled piers shall be installed under the foundation area as noted in the attached design.
  - c) See attached updated MEP drawing M2.14 clarifying testing requirements and installation standards, and other changes as noted in the design and attached specification.





#### ADHESIVE ANCHORS

- Adhesive anchors shall only be used where specified on the drawings. The Contractor shall obtain approval from the engineer of record prior to using the anchors for missing or misplaced cast-in-place anchors.
- Unless otherwise noted, size and depth of the adhesive anchors specified on the drawings are based on HAS rods and the following epoxy systems:
  - CONCRETE EPOXY:
    - Hilti HIT RE-500 V3
    - DeWalt PurePro 110+
    - Simpson Set-3G
- Substitution of expansion anchor products with similar capacities shall be submitted to the engineer of record for approval.
- Adhesive anchors of the size and embedment shown on the Drawings shall be installed in accordance with the Contract Documents, the manufacturer's recommendations, and the manufacturer's current ICBO report for the anchor. If conflicts exist between these referenced documents, the most stringent requirements shall govern.
- Contractor shall locate all existing reinforcing steel and other embedded items contained in the concrete using non-destructive methods and shall position anchor locations to avoid conflicts with existing embedded items. Anchor locations can be adjusted by a maximum of 1 inch from detailed locations to avoid conflicts, unless noted otherwise.
- Based on field verified locations of reinforcing steel and embedded items, the Contractor shall create templates for each anchor group. Submit template dimensions for review prior to fabrication of connection plates.
- Holes for anchors shall be drilled in a continuous operation using the bit type and size recommended by the anchor manufacturer. Holes shall be drilled perpendicular to the concrete surface and shall not be enlarged or redirected at any point along its length. All debris shall be blown out of the holes with compressed air after drilling.
- All abandoned holes shall be filled with non-shrink grout.
- Holes in connection plates shall be no more than 1/16" larger than the anchor diameter. If larger holes are required for erection purposes, Contractor shall provide 1/4" x 3" x 3" plate washers sufficiently welded to the connection plate to transfer the specified load.
- Installation of adhesive anchors shall be continuously inspected by the testing agency to ensure that holes are of specified size, and that bolts are properly installed.

#### TESTING LABORATORY SERVICES

- Work specified herein shall be performed by a qualified independent Testing Laboratory, selected and paid by the Owner.
- Footing excavation: Inspect the excavations to determine that the proper bearing stratum is obtained and utilized for bearing and that excavations are thoroughly clean and dry before concrete is placed.
- Concrete inspection and testing:
  - Secure composite samples of concrete at the jobsite in accordance with ASTM C172.
  - Mold and cure three specimens from each sample in accordance with ASTM C31. Test specimens in accordance with ASTM C39. Two specimens shall be tested at 28 days for acceptance, and one shall be tested at seven days for information.
  - Perform one strength test (three cylinders) for each pour.
- Concrete Reinforcement: Inspect all concrete reinforcing steel and embedded metal assemblies prior to placement of concrete for compliance with Contract Documents and shop drawings. All instances of non-compliance shall be immediately brought to the attention of the contractor for correction, and if uncorrected, reported to the engineer.
- Structural steel, Steel Joists and Joist Girders: Field inspection of proper erection of all members, visual examination of all field welding, visual inspection of all bolts, inspection of all shop fabricated members upon arrival at the jobsite for conformance with accepted fabrication and erection drawings, verification of welder's certificates.

#### CONCRETE STRENGTH TESTING AND ACCEPTANCE

- Obtain samples and conduct tests in accordance with ACI 301 Section 1.6.3.2. Additional samples may be required to obtain concrete strengths at alternate intervals than shown below.
  - Perform one strength test for each pour.
  - Cure 4 cylinders for 28-day test age: test 1 cylinder at 7 days, test 1 cylinders at 14 days, test 1 cylinders at 28 days, and hold 1 cylinder in reserve for use as the Engineer directs. After 56 days, unless notified by the Engineer to the contrary, the reserve cylinder may be discarded without being tested for specimens meeting 28-day strength requirements.
  - The number of cylinders indicated above reference 6 by 12 in cylinders. If 4 by 8 in cylinders are to be used, additional cylinders must be cured for testing of 3 cylinders at test age per the table of mix design requirements.
- Strength is satisfactory when:
  - The averages of all sets of 3 consecutive tests equal or exceed the specified strength.
  - No individual test falls below the specified strength by more than 500 psi.
  - A "test" for acceptance is the average strength of two 6 by 12 in. cylinders or three 4 by 8 in. cylinders tested at the specified test age.



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4	Addendum 2	11.27.2023

PM: S. Tanner

ENG: P. El Hanna

BIM PM: C. Hernandez

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STRUCTURAL GENERAL  
NOTES

SHEET TITLE

SO.02  
SHEET NUMBER

FORT STRUCTURES SHEET SERIES LEGEND	
SHEET SERIES	DESCRIPTION
S0	STRUCTURAL NOTES
S1	AXONOMETRIC VIEWS
S2	PLANS
S3	ELEVATIONS & BUILDING SECTIONS
S4	FOUNDATION DETAILS
S5	ELEVATED CONCRETE DETAILS
S6	CMU DETAILS/3D PRINTED DETAILS
S7	STEEL DETAILS
S8	WOOD DETAILS
S9	COLD-FORMED STEEL DETAILS

STRUCTURAL SHEET LIST (22054)	
SHEET NUMBER	SHEET NAME
S0.01	STRUCTURAL GENERAL NOTES
S0.02	STRUCTURAL GENERAL NOTES
S0.10	ABBREVIATIONS & LEGENDS
S1.01	AXONOMETRIC VIEWS
S2.00	PIER LAYOUT PLAN
S2.01	FOUNDATION PLAN
S2.02	ROOF FRAMING PLAN
S2.03	HIGH ROOF FRAMING PLAN & ENLARGED PLANS
S3.01	BRACED FRAME ELEVATIONS
S3.02	BRACED FRAME DETAILS
S4.01	TYPICAL FOUNDATION DETAILS
S4.02	TYPICAL FOUNDATION DETAILS
S4.10	FOUNDATION DETAILS
S4.11	FOUNDATION DETAILS - SITE RETAINING WALLS
S7.01	TYPICAL BASE PLATE & HSS COLUMN STEEL DETAILS
S7.02	TYPICAL STEEL BEAM CONNECTION DETAILS
S7.03	TYPICAL ROOF K OWSJ DETAILS
S7.10	ROOF FRAMING DETAILS
S9.01	TYPICAL COLD-FORMED STEEL DETAILS
S9.02	TYPICAL COLD-FORMED STEEL DETAILS
Sheet Total: 20	

FORT STRUCTURES DRAWING LEGEND			
TAG	DESCRIPTION	SYMBOL	DESCRIPTION
GB1.0	GRADE BEAM (REFER TO GRADE BEAM SCHEDULE)		POST-TENSIONED LIVE END
F2.0	FOOTING (REFER TO FOOTING SCHEDULE)		POST-TENSIONED DRAPE
SF2.0	STRIP FOOTING (REFER TO FOOTING SCHEDULE)		POST-TENSIONED DEAD END
P24	DRILLED STRAIGHT SHAFT PIER (REFER TO SCHEDULE)		MATCHLINE
P24/UR48	DRILLED STRAIGHT SHAFT PIER WITH UNDERREAM (REFER TO SCHEDULE)		SHORING INDICATION
SDP6	STEEL DRIVEN PILE (REFER TO PLANS & DETAILS)	[A]	ABOVE INDICATION
PC-X	PIER/PILE CAP (REFER TO SCHEDULE)	@	*AT* SYMBOL WHEN INDICATING A SPACING
S	FOOTING/GRADE BEAM STEP		CENTERLINE INDICATION
BT-XX	POST-TENSIONED GRADE BEAM W/ TENDON LENGTH (REFER TO SCHEDULE)	∅	DIAMETER INDICATION
ST-XX	POST-TENSIONED SLAB ON GRADE W/ TENDON LENGTH (REFER TO SCHEDULE)	[E]	EXISTING INDICATION
CS-WSP	CONTINUOUSLY SHEATHED-WOOD STRUCTURAL PANEL (REFER TO SCHEDULE)		MOMENT CONNECTION
HD-X	SHEAR WALL POINTS TO NAILING PATTERN SIDE (REFER TO SCHEDULE)	±	PLUS OR MINUS INDICATION
XXXX	STEEL/CONCRETE COLUMN (REFER TO SCHEDULE)	FLUSH	FLUSH FLOOR INDICATION
BP-X	BASEPLATE (REFER TO DETAIL SCHEDULE)		SLOPE/RAMP DOWN INDICATION
SP-X	SADDLE PLATE (REFER TO DETAIL SCHEDULE)		SLOPE/RAMP UP INDICATION
SR-X	STUD RAIL (REFER TO DETAILS)		STEP DOWN INDICATION
1TB	REINFORCEMENT TYPE (REFER TO SCHEDULE)		ROOF RIDGE INDICATION
MD-X	METAL DECK SPAN DIRECTION (REFER TO SCHEDULE)		ROOF VALLEY INDICATION
RT-X	RIM TRACK (REFER TO SCHEDULE)		
T/XXX = 'X'-X"	TOP ELEVATION OF ELEMENT		
B/XXX = 'X'-X"	BOTTOM ELEVATION OF ELEMENT		
XX/SX.XX	SECTION VIEW (DETAIL NUMBER/SHEET NUMBER)		
XX/SX.XX	CALLOUT VIEW (DETAIL NUMBER/SHEET NUMBER)		
XX/SX.XX	ELEVATION VIEW (DETAIL NUMBER/SHEET NUMBER)		
Δ	REVISION DELTA (REFER TO REVISION SCHEDULE)		

FORT STRUCTURES MATERIAL PATTERN LEGEND			
	ADDITIONAL LOADING (PLANS)		GRADING (PLANS/DETAILS)
	PLYWOOD (DETAILS)		GRADING UNDISTURBED (PLANS/DETAILS)
	CFS BEARING WALL (PLANS)		GRATING (PLANS)
	CFS NON-BEARING WALL (PLANS)		GRAVEL (DETAILS)
	CMU BEARING (PLANS/DETAILS)		GROUT (DETAILS)
	CMU NON-BEARING (PLANS/DETAILS)		STEEL (DETAILS)
	CAST-IN-PLACE CONCRETE BEARING (PLANS/DETAILS)		3D PRINTED BEARING WALL (PLANS/DETAILS)
	CAST-IN-PLACE CONCRETE NON-BEARING (PLANS/DETAILS)		3D PRINTED CORE (PLANS)
	CRITICAL ROOT ZONE FOR NO IMPACTS (PLANS)		MASONRY BEARING (PLANS/DETAILS)
	EXISTING (PLANS/DETAILS)		MASONRY NON-BEARING (PLANS/DETAILS)
	FILL (DETAILS)		OVER-FRAMING (PLANS)

FORT STRUCTURES ABBREVIATIONS		
AB ANCHOR BOLT	GA GAGE	R RADIUS
ADDL ADDITIONAL	GALV GALVANIZED	RCP REINFORCED CONCRETE PIPE
ADH ADHESIVE	GC GENERAL CONTRACTOR	RD ROOF DRAIN
ADJ ADJACENT	GEN GENERAL	RECT RECTANGULAR
ALT ALTERNATE	GEOTECH GEOTECHNICAL	REF REFER/REFERENCE
APPROX APPROXIMATELY	GL GLUE LAMINATED TIMBER	REINF REINFORCING(ING)(ED)(MENT)
AR ANCHOR ROD	GR GRADE	REM REMAINDER
ARCH ARCHITECT(URAL)	GR BEAM GRADE BEAM	REQ REQUIRE(D)
B or BOT BOTTOM	GYP GYPSUM BOARD	RET RETAINING
B/ BOTTOM OF	HD HOLD-DOWN	RF ROOF
BCB BOTTOM CHORD BEARING	HDR HEADER	RND ROUND
BF BACK FACE	HGR HANGER	RO ROUGH OPENING
BFM BRACE FRAME	HI HIGH	RT RIM TRACK
BL BUILDING LINE	HK HOOK(S)	SCHED SCHEDULE(D)
BLDG BUILDING	HORIZ HORIZONTAL	SDP STEEL DRIVEN PILE
BLKG BLOCKING	HP HIGH POINT	SF SQUARE FOOT
BO BLOCK-OUT	HSS HOLLOW STRUCTURAL SECTION	SHTHG SHEATHING
BP BASE PLATE	HT HEIGHT	SIM SIMILAR
BRDG BRIDGING	HTD HOT DIP(PED)	SLBB SHORT LEG BACK TO BACK
BRG BEARING	IBC INTERNATIONAL BUILDING CODE	SMF SPECIAL MOMENT FRAME
BRL BRICK LEDGE	ID INSIDE DIAMETER	SOG SLAB ON GRADE
BTW BETWEEN	IE INVERT ELEVATION	SP SADDLE PLATE
BWL BRACE WALL LINE	IF INSIDE FACE	SPA SPACE(S)(D)(ING)
c CAMBER	INT INTERIOR	SPEC SPECIFICATION(S)
CANT CANTILEVER	INTERM INTERMEDIATE	SPECD SPECIFIED
CBORE COUNTERBORE	JT JOINT	SPINE SOUTHERN PINE
CG CENTER OF GRAVITY	k KIPS	SQ SQUARE
CIP CAST-IN-PLACE	L ANGLE	SR STUDRAIL
CJ CONSTRUCTION JOINT	LF LINEAL FOOT	SS STAINLESS STEEL
CJP COMPLETE JOINT PENETRATION	LL LIVE LOAD	STAGG STAGGERED
CLG CEILING	LLBB LONG LEG BACK-TO-BACK	STD STANDARD
CLR CLEAR(ANCE)	LLH LONG LEG HORIZONTAL	STIFF STIFFENER
CLT CROSS-LAMINATED TIMBER	LLV LONG LEG VERTICAL	STR STIRRUPS
CMU CONCRETE MASONRY UNIT	LOC LOCATION	STL STEEL
COL COLUMN	LONGIT LONGITUDINAL	STR STRAIGHT
COM COMPRESSION	LP LOW POINT	STRUCT STRUCTURE(AL)
CONC CONCRETE	LSH LONG SIDE HORIZONTAL	SUPT SUPPORT(S)
COND CONDITION	LSL LAMINATED STRAND LUMBER	T TOP
CONST CONSTRUCTION	LSV LONG SIDE VERTICAL	T/ TOP OF
CONT CONTINUOUS	LVL LAMINATED VENEER LUMBER	T&B or TB TOP AND BOTTOM
CONX CONNECTION(S)	LWT LIGHTWEIGHT	TC AX LD TOP CHORD AXIAL LOAD
COORD COORDINATE	M MOMENT	TCB TOP CHORD BEARING
CP COVER PLATE	MATL MATERIAL	TCX TOP CHORD EXTENSION
CRZ CRITICAL ROOT ZONE	MAX MAXIMUM	TDS TIE DOWN SYSTEM
CSNK COUNTERSINK	mc MOMENT CONNECTION(S)	T&G TONGUE AND GROOVE
CTJ CONTROL JOINT	MECH MECHANICAL	THK THICKNESS
CTRD CENTERED	MEZZ MEZZANINE	THRD THREADED
DR BEAM DROPPED BEAM	MFR MANUFACTURE(R)	TPG TOPPING
DBA DEFORMED BAR ANCHOR(S)	MID MIDDLE	TRANSV TRANSVERSE
DBL DOUBLE	MIN MINIMUM	TYP TYPICAL
DEMO DEMOLISH	MISC MISCELLANEOUS	UBC UNIFORM BUILDING CODE
DEV DEVELOPMENT	MTL METAL	UMU UNREINFORCED MASONRY UNIT
DFIR DOUGLAS FIR	NF NEAR FACE	UNO UNLESS NOTED OTHERWISE
DIAG DIAGONAL	NIC NOT IN CONTRACT	UR UNDER-REAM
DIM DIMENSION(S)	NLT NAIL LAMINATED TIMBER	V SHEAR FORCE
DIST DISTRIBUTED	No NUMBER	VERT VERTICAL
DL DEAD LOAD	NOM NOMINAL	VIF VERIFY IN FIELD
DN DOWN	NS NON-SHRINK	VOL VOLUME
DP DEPTH/DEEP	NTS NOT TO SCALE	W WIDE
DTL DETAIL(S)(D)	NW NORMAL WEIGHT	W/ WITH
DWG DRAWING(S)	OC ON CENTER	WB WIND BRACE
DWL DOWEL(S)	OD OUTSIDE DIAMETER	WHS WELDED HEADED STUD
EA EACH	O/F OUTSIDE FACE	W/O WITHOUT
EF EACH FACE	OH OPPOSITE HAND	WP WORK POINT
EJ EXPANSION JOINT	OPNG OPENING(S)	WPR WATER PROOFING
EL ELEVATION	OPP OPPOSITE	WS WATER STOP
ELEC ELECTRICAL	OSB ORIENTED STRAND BOARD	WWF WELDED WIRE FABRIC
ELEV ELEVATOR	OVHG OVERHANG	XS EXTRA STRONG
EMBED EMBEDMENT	OWSJ OPEN WEB STEEL JOIST	XXS EXTRA EXTRA STRONG
ENG ENGINEER(D)	OWWJ OPEN WEB WOOD JOIST	
EOR ENGINEER OF RECORD	P AXIAL LOAD	
EQ EQUAL	PAF POWDER ACTUATED FASTENER	
EQPT EQUIPMENT	PC PIER/PILE CAP	
EW EACH WAY	P/C PRECAST CONCRETE	
EXIST EXISTING	PCF POUNDS PER CUBIC FOOT	
EXP EXPANSION	PCY POUNDS PER CUBIC YARD	
EXT EXTERIOR	PEN PENETRATION	
F/ FACE OF	PERF PERFORATED	
FAB FABRICATE(ION)(OR)	PERP PERPENDICULAR	
FD FLOOR DRAIN	PJP PARTIAL JOINT PENETRATION	
FF FINISHED FLOOR	PL PLATE	
FIN FINISH(ED)	PLF POUNDS PER LINEAL FOOT	
FL FLOOR	PLYWD PLYWOOD	
FLG FLANGE	PREFAB PREFABRICATED	
FND FOUNDATION	PRELIM PRELIMINARY	
FP FIREPROOF(ING)	PSF POUNDS PER SQUARE FOOT	
FRM FRAMING	PSI POUNDS PER SQUARE INCH	
FRT FIRE RETARDANT TREATED	PSL PARALLEL STRAND LUMBER	
FS FAR SIDE	PT PRESSURE TREATED	
FSTN FASTENER(ED)	P-T POST-TENSION(ED)	
FTF FACE TO FACE		
FTG FOOTING		



4	Addendum 2	11.27.2023
2	NA	NA
NO	ISSUE	DATE

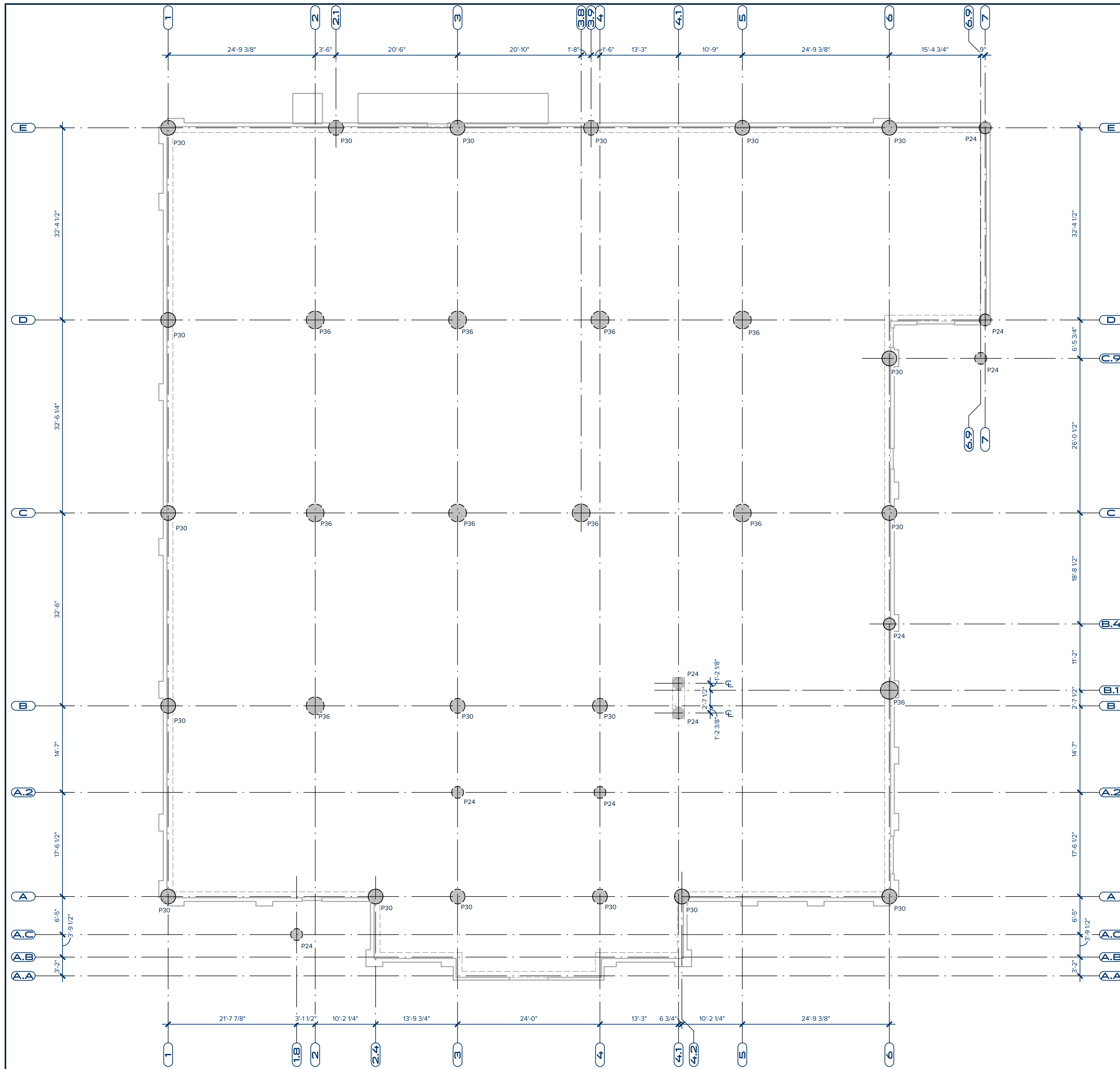
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QA/QC: S. Tanner

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**COMMON PLAN NOTES**

- STRUCTURAL GENERAL NOTES, ABBREVIATIONS, AND LEGEND PER S1 SHEET SERIES.
- VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, SLOPES, DRAINS, DEPRESSIONS, CURBS, PENETRATIONS, ETC. WITH ARCHITECTURAL AND OTHER CONSULTANT DRAWINGS PRIOR TO CONSTRUCTION.
- ALL DUCTS, CHASES AND PIPES SHALL BE PER MECHANICAL, PLUMBING, ELECTRICAL AND SPRINKLER DRAWINGS.

**CONCRETE PIER PLAN NOTES**

- TYPICAL T/PIER ELEVATIONS TO BE LOCATED -0'-8\"/>
- ALL PIERS TO BEAR INTO APPROVED BEARING STRATUM PER GETOTECH REPORT AS NOTED IN THE STRUCTURAL GENERAL NOTES.

**CONCRETE PIER SCHEDULE**

TYPE MARK	PIER DIAMETER	REINFORCEMENT		ADDITIONAL INFORMATION
		VERTICAL	TIES	
P24	24"	(6)-#6	#3 @ 12"OC	B/PIER = -10'-0" BELOW EXISTING GRADE
P30	30"	(7)-#6	#3 @ 12"OC	B/PIER = -10'-0" BELOW EXISTING GRADE
P36	36"	(8)-#6	#3 @ 12"OC	B/PIER = -10'-0" BELOW EXISTING GRADE



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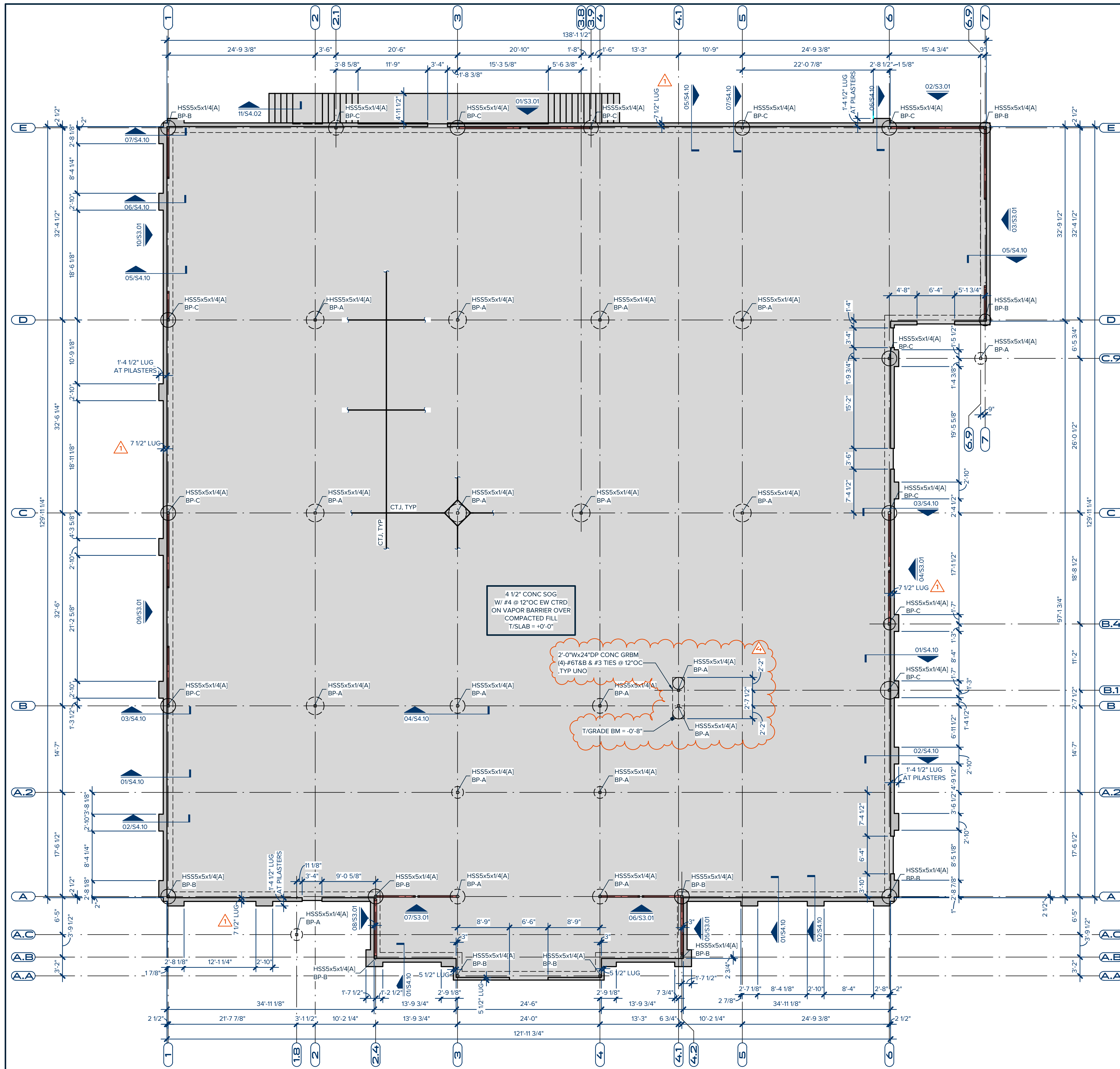
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**PIER LAYOUT PLAN**  
 SCALE: 1/8" = 1'-0"

**PIER LAYOUT PLAN**  
 SHEET TITLE

**S2.00**  
 SHEET NUMBER



**COMMON PLAN NOTES**

- STRUCTURAL GENERAL NOTES, ABBREVIATIONS, AND LEGEND PER S1 SHEET SERIES.
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**SLAB ON GRADE FOUNDATION PLAN NOTES**

- REFERENCE TOP OF SLAB (T/SLAB) ELEVATION = 0'-0". FOR ACTUAL T/SLAB ELEVATION REFER TO CIVIL AND ARCHITECTURAL DRAWINGS.
- SUBGRADE PREPARATION, STRUCTURAL FILL, DRAINAGE SYSTEM, BEARING AND OTHER REQUIREMENTS PER GEOTECH REPORT AS NOTED IN THE STRUCTURAL GENERAL NOTES AND FOUNDATION DETAILS.

REPLACED SPREAD FOOTINGS WITH DRILLED CONCRETE PIERS & REDUCED PERIMETER GRADE BEAM DEPTHS.

4 1/2" CONC SOG W/ #4 @ 12" OC EW CTRD ON VAPOR BARRIER OVER COMPACTED FILL T/SLAB = +0'-0"

2'-0" Wx24" DP CONC GRBM (4) #6T&B & #3 TIES @ 12" OC TYP UNO  
T/GRADE BM = -0'-8"



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1	Addendum 1	11.14.2023

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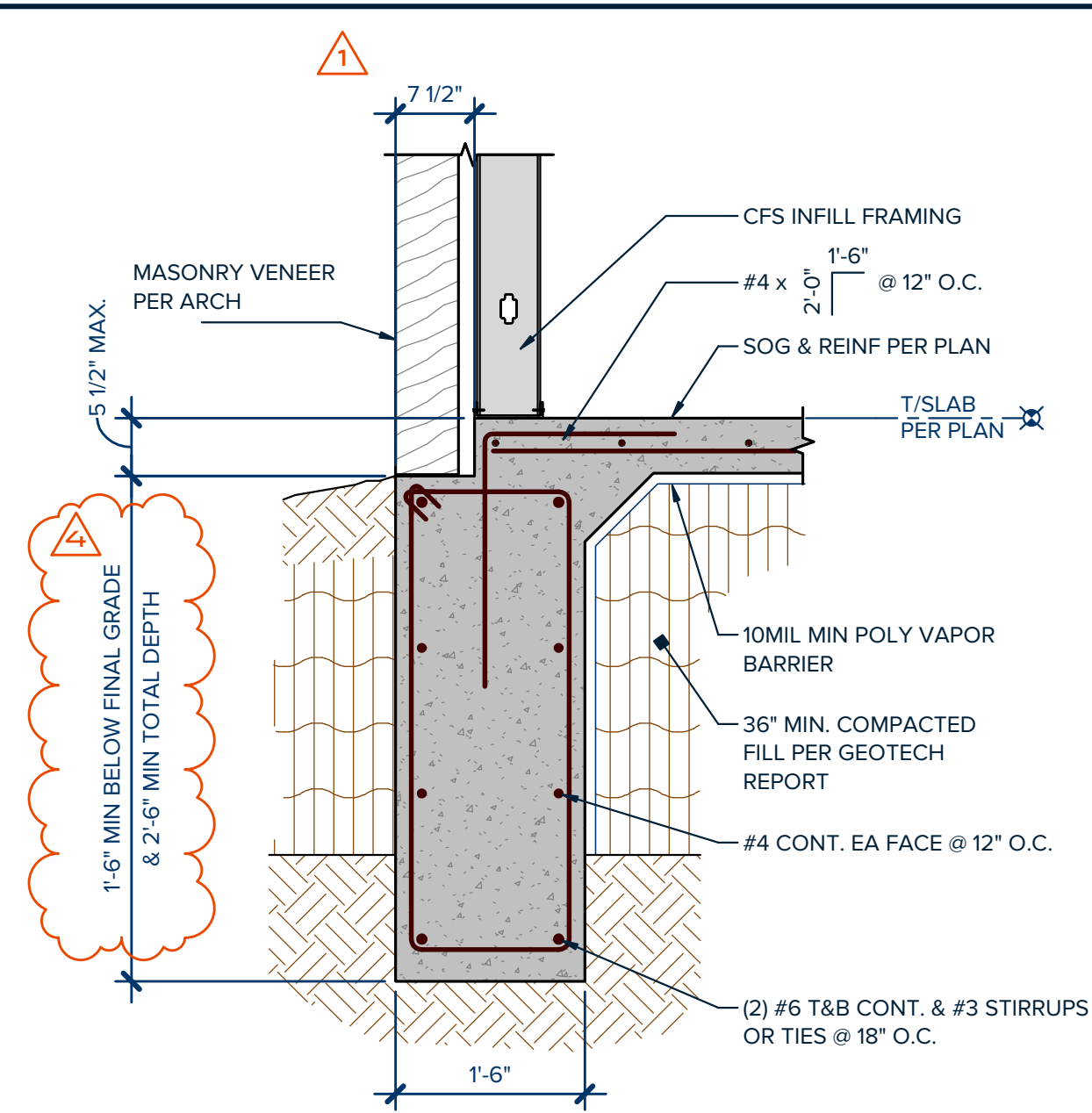
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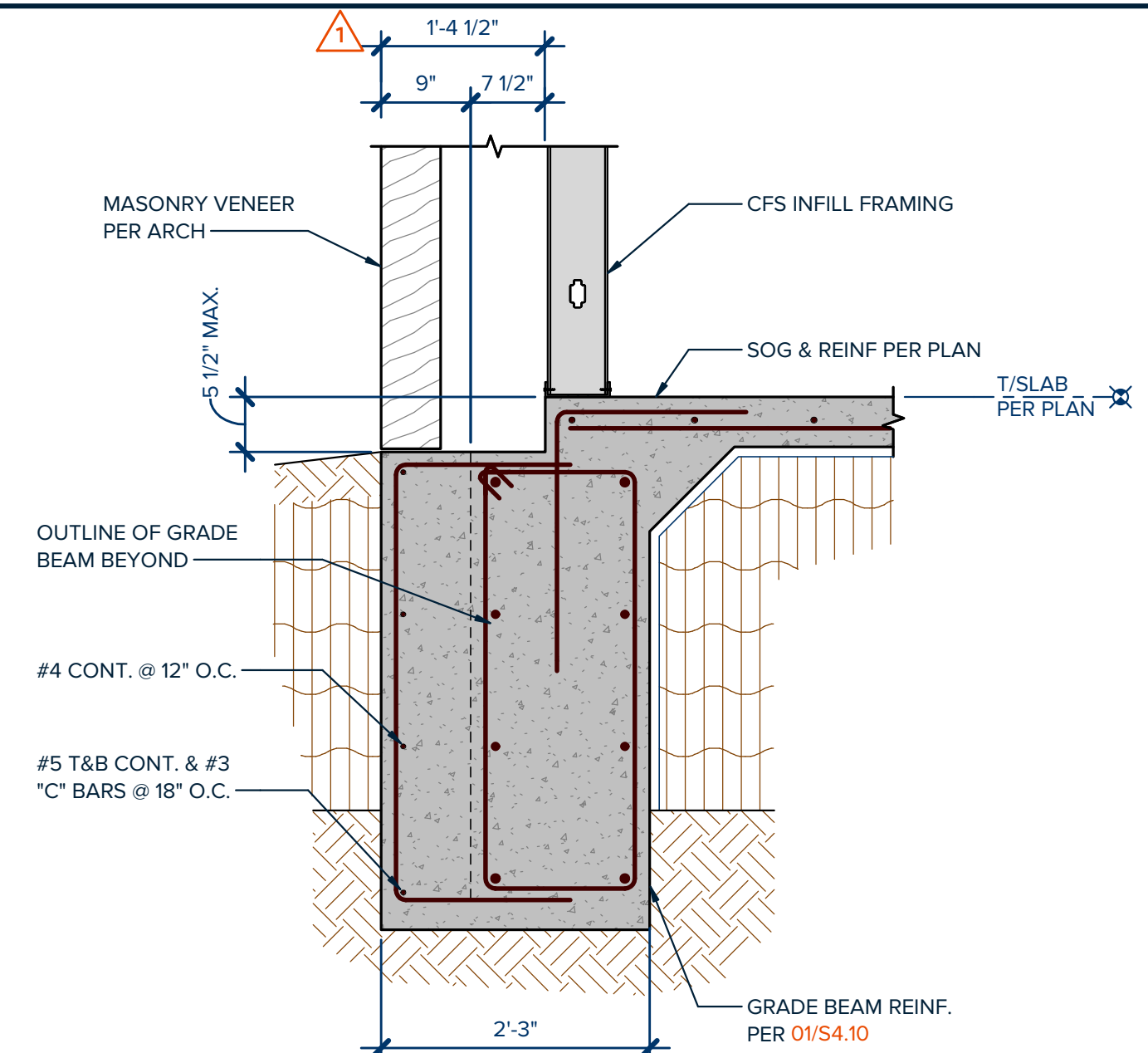
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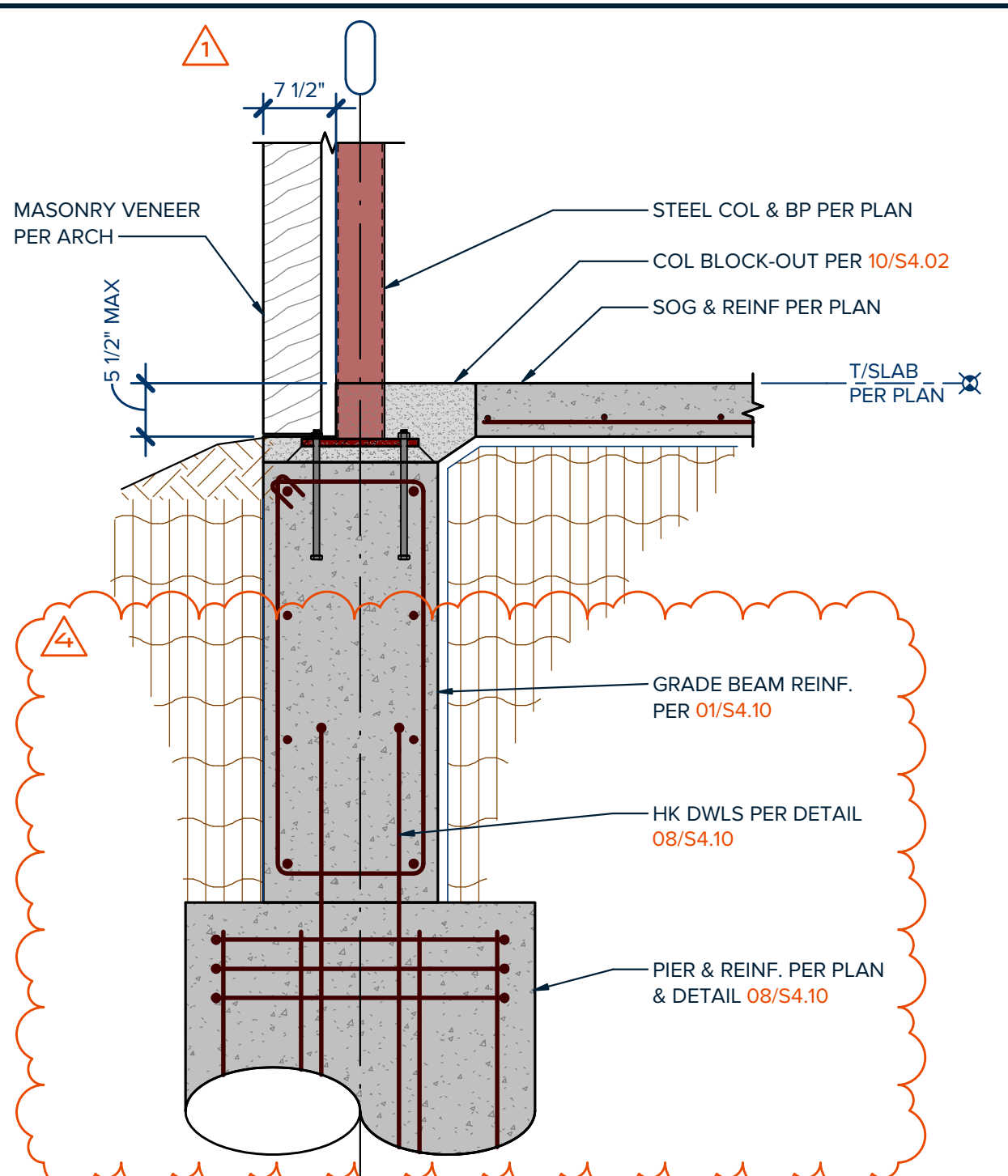
**NOTES:**  
1. ENGINEER SHALL VERIFY DEPTH AND BEARING.  
2. STEP BOTTOM OF GRADE BEAM AS REQUIRED. NO SLOPE GREATER THAN 1:10.

**01 EXTERIOR GRADE BEAM W/ LUG**  
SCALE: 3/4" = 1'-0"



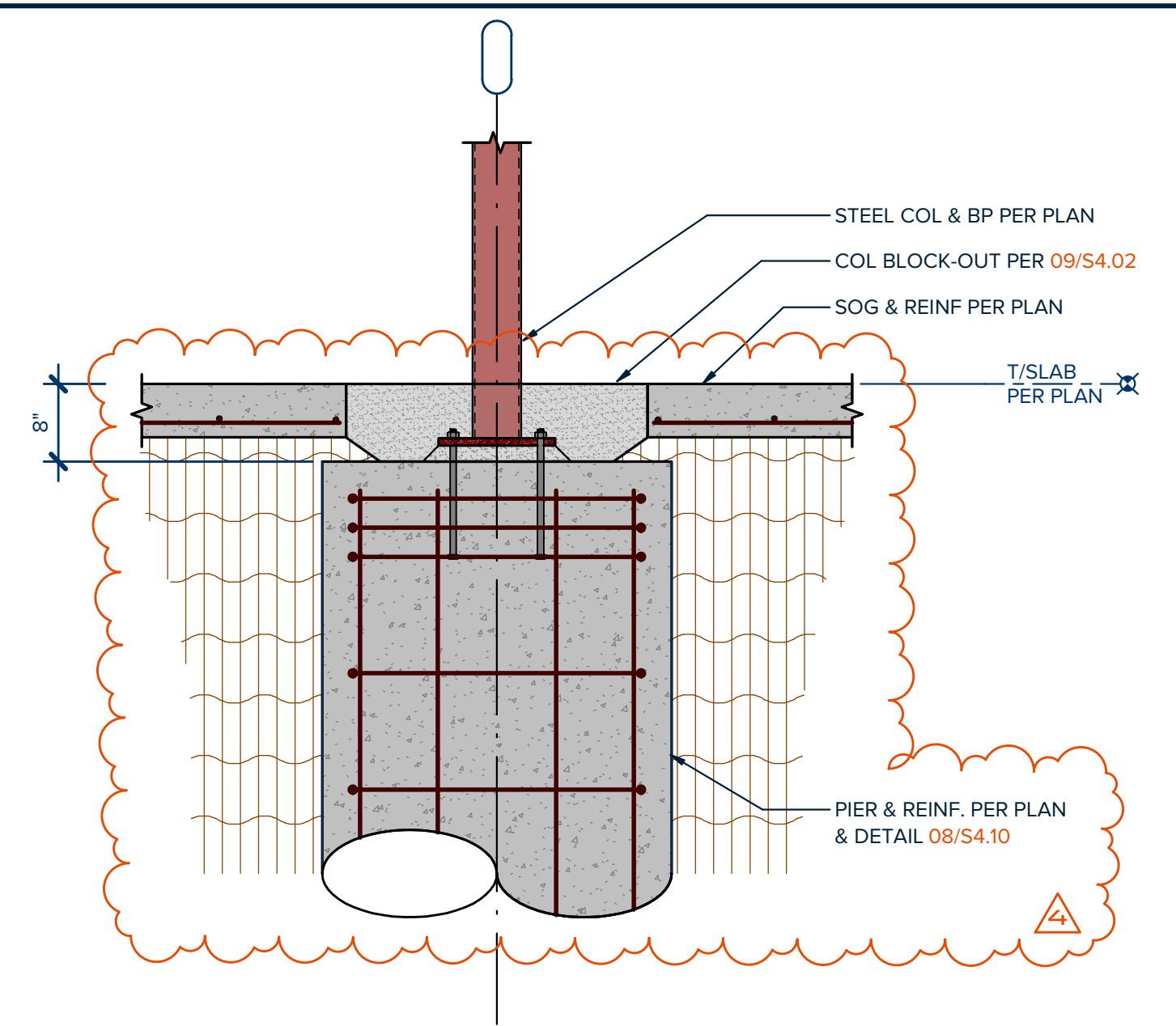
**NOTES:**  
1. REFERENCE 01/S4.10 FOR ADDITIONAL INFORMATION.

**02 EXTERIOR GRADE BEAM W/ EXTENDED LUG**  
SCALE: 3/4" = 1'-0"

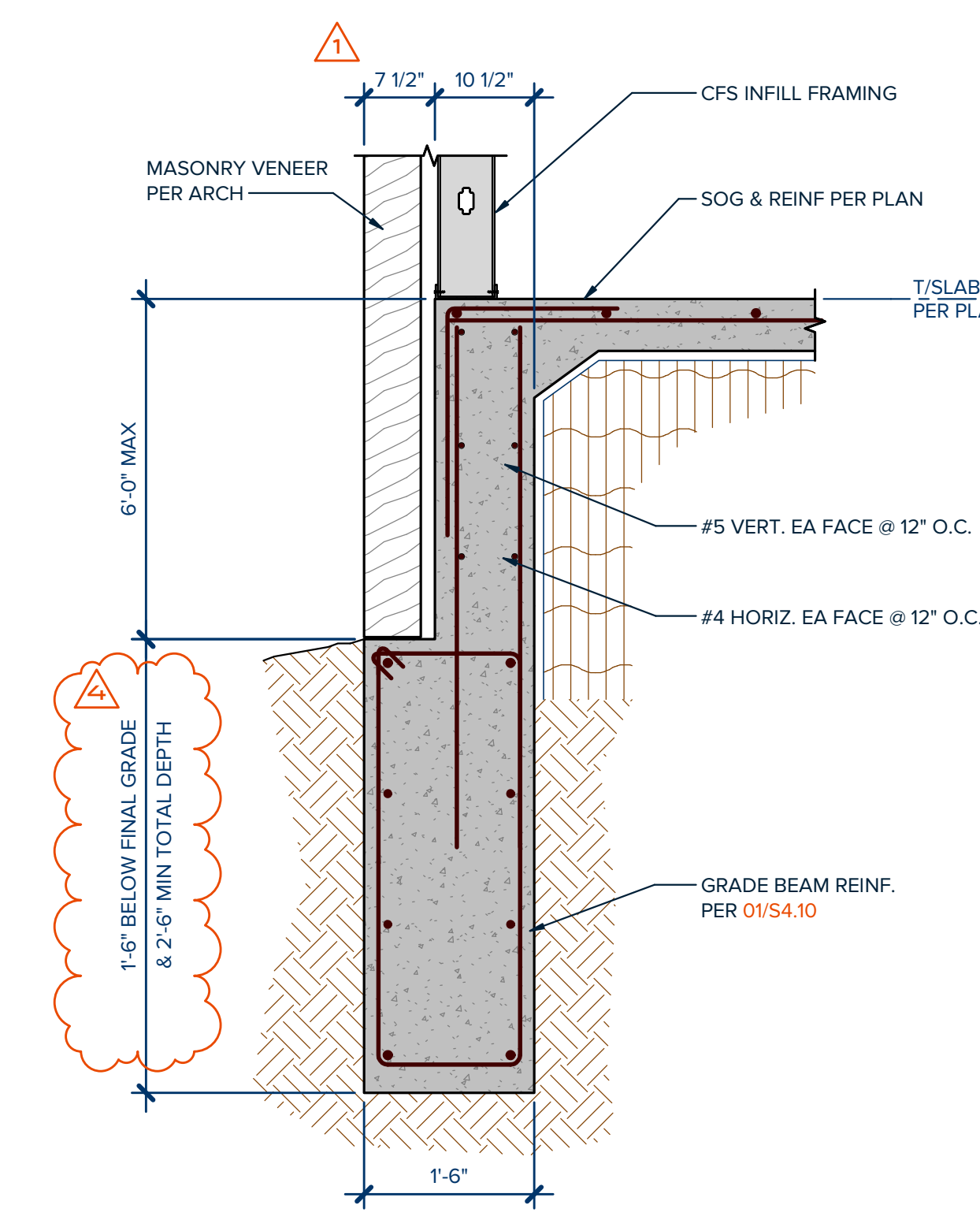


**NOTES:**  
1. REFERENCE 01/S4.10 FOR ADDITIONAL INFORMATION.

**03 EXTERIOR GRADE BEAM & PIER AT STEEL COL**  
SCALE: 3/4" = 1'-0"

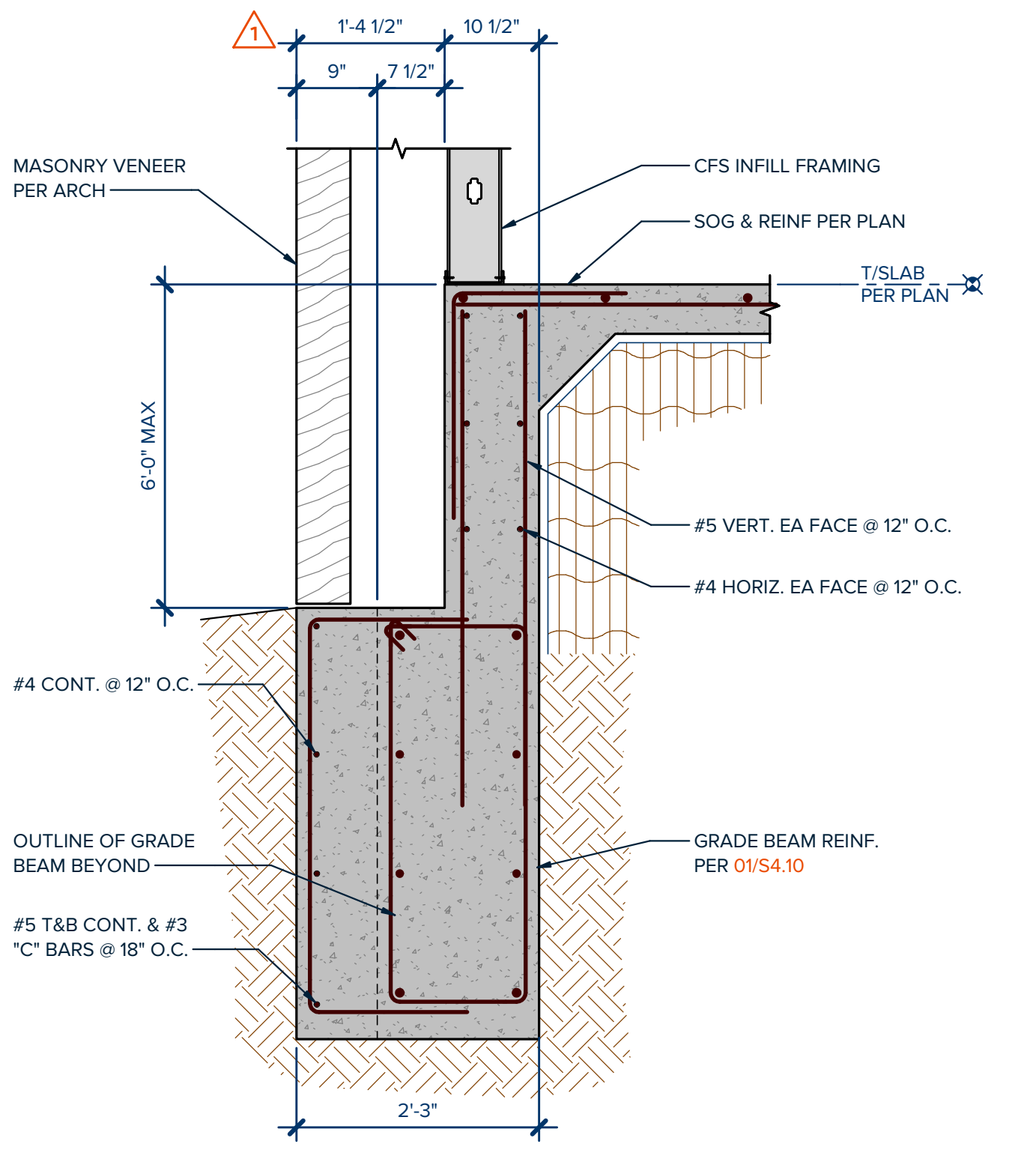


**04 INTERIOR PIER AT STEEL COLUMN**  
SCALE: 3/4" = 1'-0"



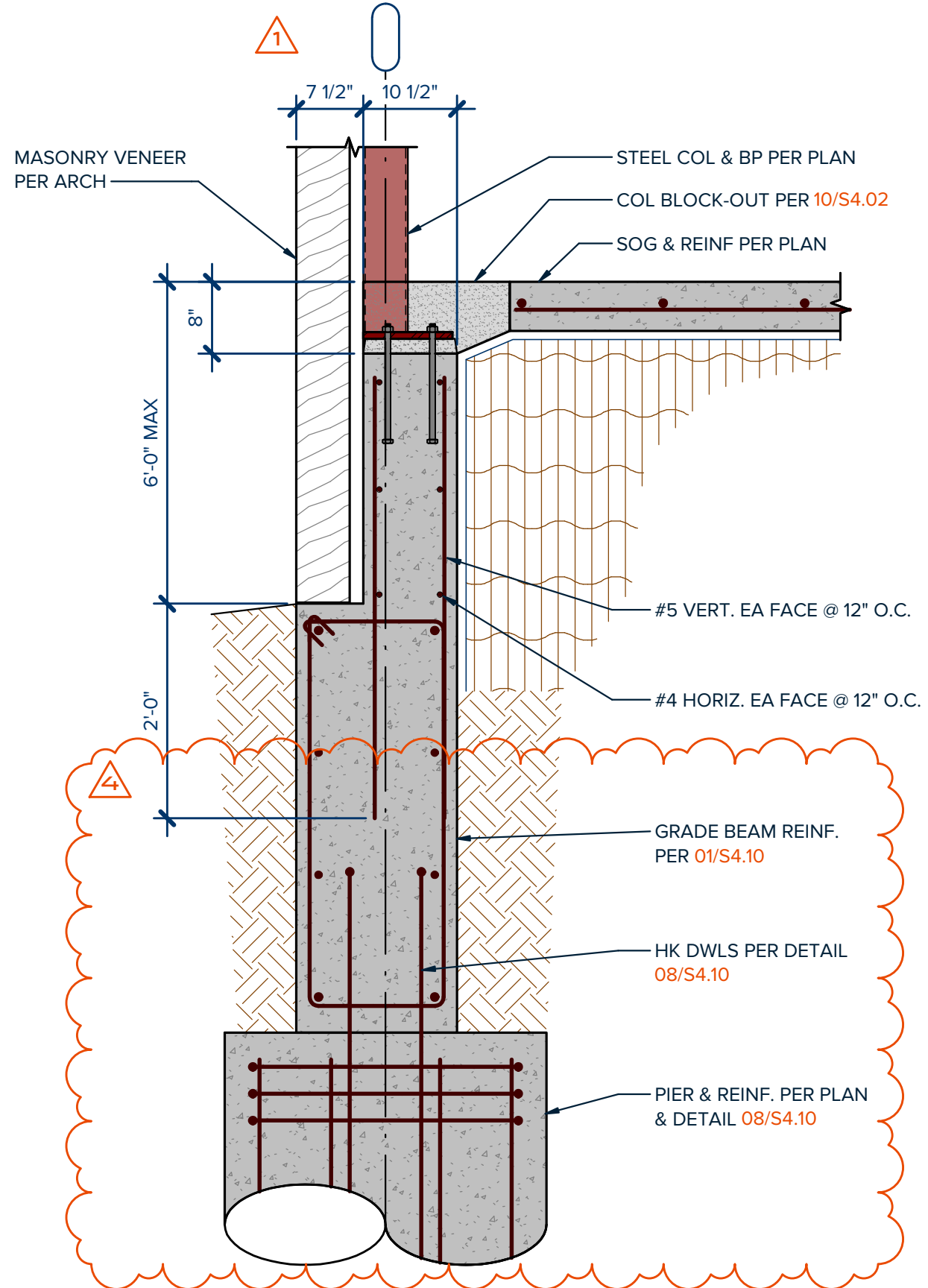
**NOTES:**  
1. REFERENCE 01/S4.10 FOR ADDITIONAL INFORMATION.

**05 EXTERIOR GRADE BEAM W/ EXTENDED DEEP LUG**  
SCALE: 3/4" = 1'-0"



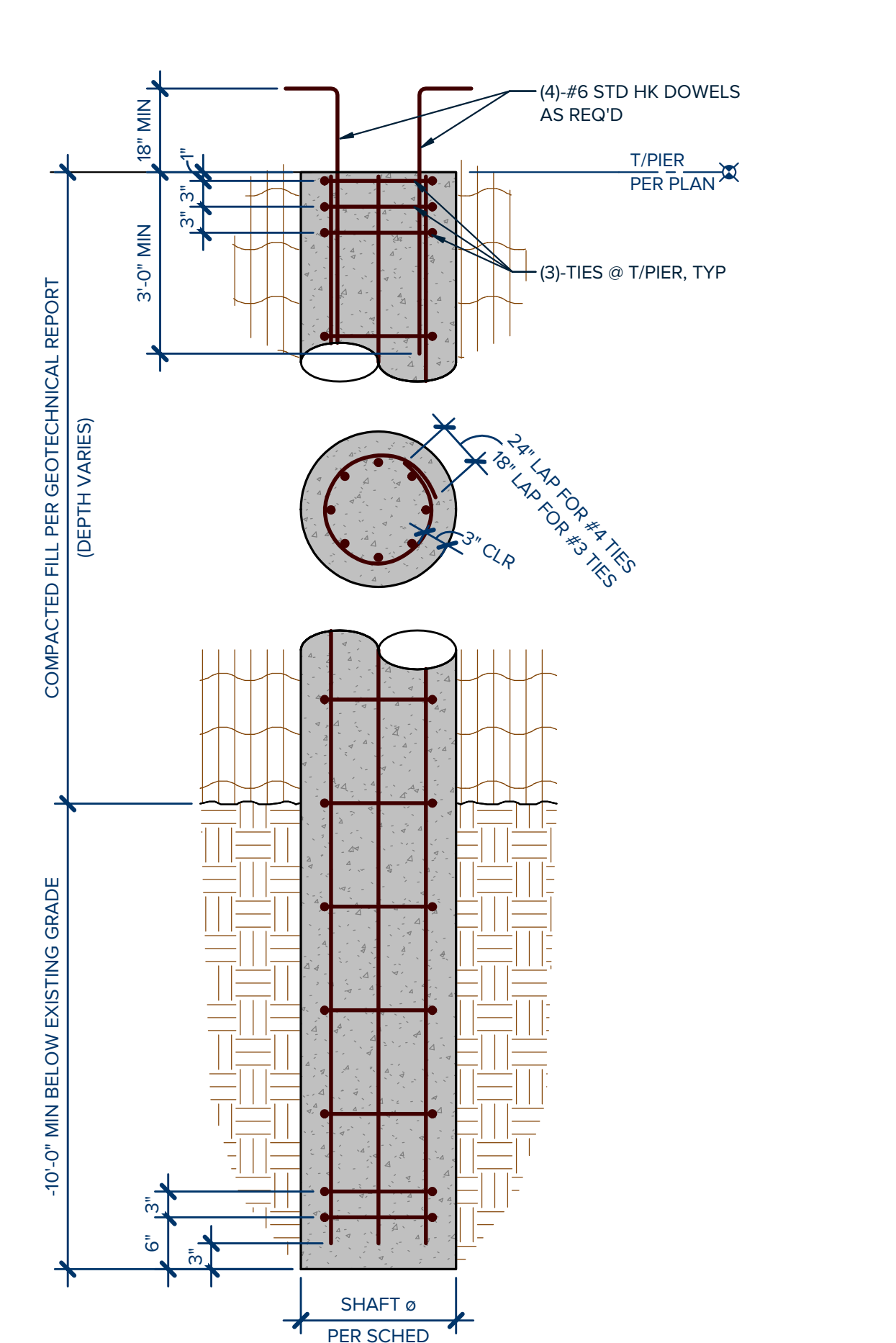
**NOTES:**  
1. REFERENCE 01/S4.10 FOR ADDITIONAL INFORMATION.

**06 EXTERIOR GRADE BEAM W/ EXTENDED DEEP LUG**  
SCALE: 3/4" = 1'-0"



**NOTES:**  
1. REFERENCE 01/S4.10 FOR ADDITIONAL INFORMATION.

**07 EXT GRADE BM & PIER AT STEEL COL & DEEP LUG**  
SCALE: 3/4" = 1'-0"



**NOTES:**  
1. IF CASINGS BECOME NECESSARY, CONTACT ENGINEER OF RECORD FOR REVISED FOUNDATION OPTIONS.  
2. NOTIFY ENGINEER OF RECORD 48 HOURS PRIOR TO DRILLING & POURING PIERS.  
3. VERTICAL REINFORCEMENT SHALL BE CLASS "A" SPLICED, TYPICAL.  
4. VERTICAL REINFORCEMENT FOR TENSION "T" PIERS SHALL BE CLASS "B" SPLICED.

**08 STRAIGHT SHAFT PIER**  
SCALE: 3/4" = 1'-0"

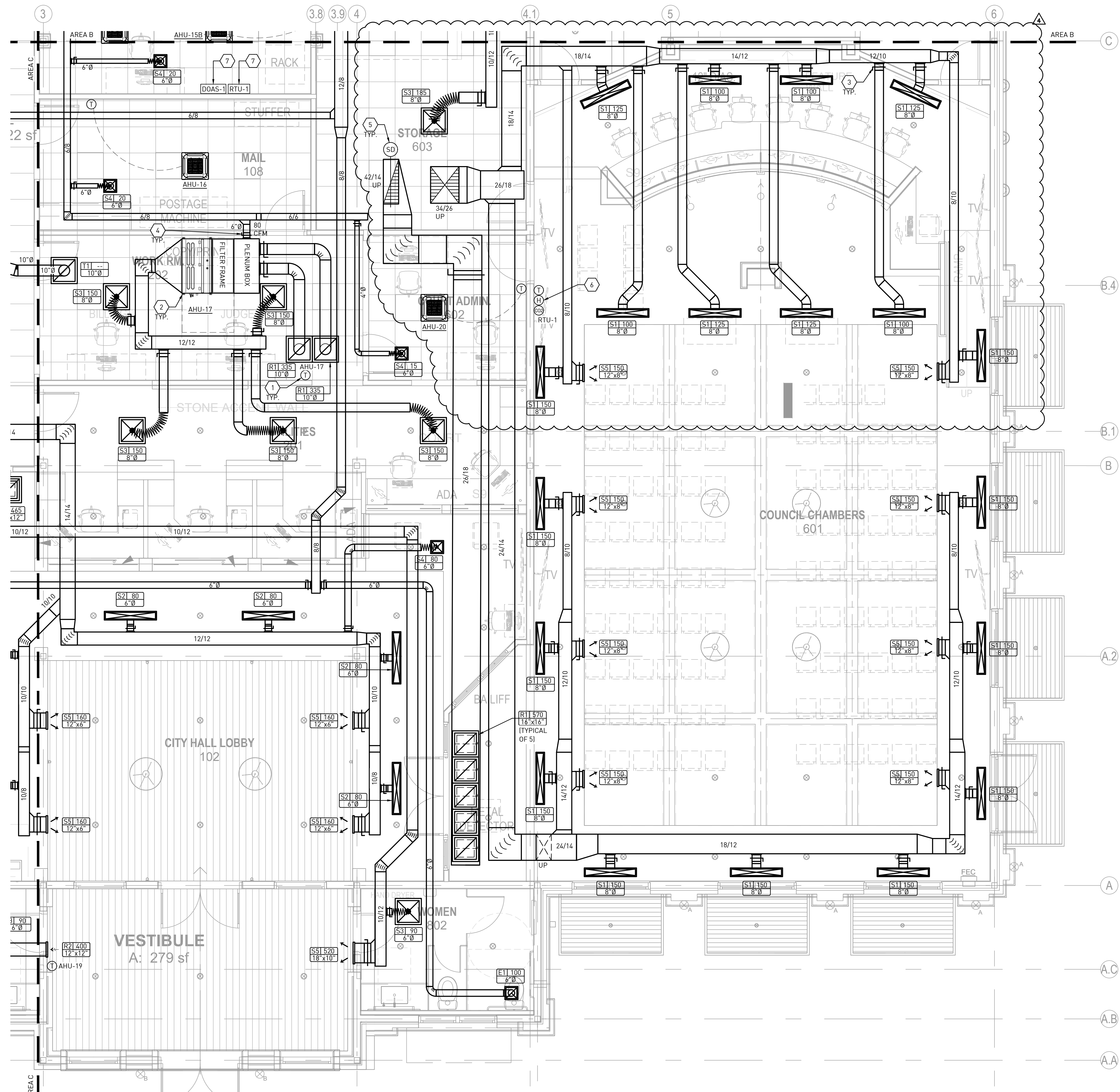
NO	ISSUE	DATE
4	Addendum 2	11.27.2023
1	Addendum 1	11.14.2023

PM: S. Tanner  
ENG: P. El Hanna  
BIM PM: C. Hernandez  
QA/QC: S. Tanner

If printed on 22x34 or 24x36 sheet,  
the scale is as indicated.  
If printed on an 11x17 or 12x18  
sheet, the scale is reduced by half. SCALE

FOUNDATION DETAILS  
SHEET TITLE

**S4.10**  
SHEET NUMBER



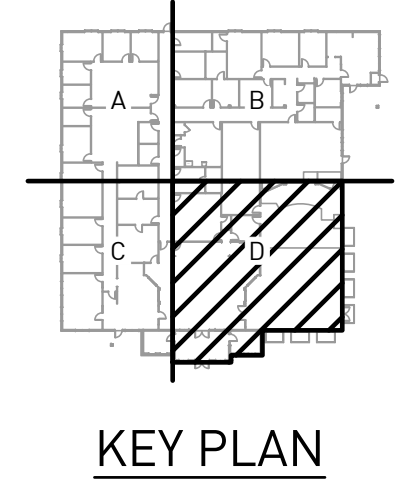
**GENERAL NOTES**

- A. THE CONTRACTOR SHALL REPLACE ALL FILTERS ON AHU'S AFTER CONSTRUCTION IS COMPLETE. UNDER NO CIRCUMSTANCES SHALL ANY EQUIPMENT BE OPERATED WITHOUT FILTERS INSTALLED. FILTER USED DURING CONSTRUCTION SHALL BE MINIMUM MERV 8.
- B. ALL TAPS AND DUCTWORK SERVING SUPPLY, RETURN, OUTSIDE AIR OR EXHAUST DIFFUSERS SHALL HAVE LOCKING BALANCING DAMPERS MATCHING THE DIFFUSER NECK DIAMETER UNLESS INDICATED OTHERWISE. POSITION BALANCING DAMPERS ABOVE CEILING WHENEVER FEASIBLE. WHERE DAMPER IS NOT ACCESSIBLE, PROVIDE CABLE-OPERATED ROTO-TWIST DAMPER, ACCESSIBLE FROM FACE OF DIFFUSER.
- C. FOR CLARITY PURPOSES, CEILING GRID, ALL EQUIPMENT, DUCTWORK, PIPING, ETC. MAY NOT BE SHOWN IN ALL VIEWS.
- D. DUCT SIZES LISTED ON PLANS ARE INSIDE FREE AIRWAY DIMENSIONS. FIRST FIGURE IN DUCT SIZE INDICATES THE DIMENSION OF THE FACE SHOWN OR INDICATED IN THE DRAWING VIEW.
- E. ACCESS PANELS IN INACCESSIBLE CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC., AND SHALL BE FURNISHED AND INSTALLED UNDER ARCHITECTURAL SPECIFICATIONS.
- F. ALL 90° ELBOWS IN RECTANGULAR SUPPLY AND OUTSIDE AIR DUCTWORK SHALL HAVE TURNING VANES INSTALLED.
- G. CONTRACTOR SHALL COORDINATE DIFFUSER/GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- H. MAXIMUM LENGTH OF FLEX DUCT SHALL NOT TO EXCEED 60 INCHES.
- I. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL NEW EQUIPMENT AND COORDINATE WITH THE GENERAL CONTRACTOR.
- J. CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO FABRICATING AND/OR INSTALLING ANY DUCT OR DEVICES. DUCTWORK SHOWN PENETRATING STRUCTURAL WALLS MUST BE COORDINATED WITH THE STRUCTURAL PLANS AND MAY REQUIRE DUCTWORK TRANSITIONS AND/OR OFFSETS NOT SPECIFICALLY SHOWN ON THE DRAWINGS. ANY ADDITIONAL STRUCTURAL OPENINGS SHALL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR PRIOR TO INSTALLATION.
- K. NOT ALL DUCT FITTINGS ARE SHOWN ON PLAN. PROVIDE OFFSET FITTINGS AND ELBOWS AS REQUIRED TO CROSS DUCTWORK AND COORDINATE WITH OTHER TRADES.

SUPPLY AIR DEVICE CONNECTION SCHEDULE		
AIRFLOW RANGE (CFM)	MINIMUM DUCT TAP AND DEVICE NECK SIZE SQUARE (IN.)	ROUND(IN.)
0 - 100	6 X 6	6"Ø
101 - 200	8 X 8	8"Ø
201 - 350	10 X 10	10"Ø
351 - 550	12 X 12	12"Ø

**KEYED NOTES BY SYMBOL 'X'**

- 1. PROVIDE NEW AUTO-CHANGEOVER, 7-DAY PROGRAMMABLE THERMOSTAT. COORDINATE FINAL LOCATIONS WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION.
- 2. PROVIDE HORIZONTAL AIR HANDLING UNIT SUSPENDED FROM STRUCTURE WITH VIBRATION ISOLATORS, SECONDARY DRAIN PAN, AUTOMATIC SHUT OFF FLOAT SWITCH, RETURN AIR FILTER FRAME AND MANUAL BALANCING DAMPER AT OUTSIDE AIR DUCT CONNECTION. ALL DUCTED AIR HANDLING UNITS SHALL BE PROVIDED WITH FIRE ALARM RELAY TO SHUT DOWN AIR HANDLING UNIT UPON ACTIVATION OF THE BUILDING FIRE ALARM SYSTEM. COORDINATE WITH FIRE ALARM CONTRACTOR FOR REQUIREMENTS. COORDINATE EXACT ELEVATION WITH STRUCTURE, DUCTWORK AND PIPING PRIOR TO INSTALLATION. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR REQUIREMENTS. PROVIDE CLEARANCE AND ACCESS TO UNIT AS RECOMMENDED BY THE MANUFACTURER.
- 3. PROVIDE MANUAL BALANCING DAMPER AT EACH TAKEOFF TO SUPPLY AND RETURN AIR DEVICES.
- 4. PROVIDE CEILING CASSETTE AIR HANDLING UNIT, MOUNTED IN LAY-IN CEILING. COORDINATE WITH CEILING GRID INSTALLER PRIOR TO CONSTRUCTION FOR REQUIREMENTS.
- 5. PROVIDE DUCT SMOKE DETECTOR, INTERLOCKED WITH ROOFTOP UNIT TO SHUT DOWN UNIT UPON ACTIVATION. COORDINATE WITH FIRE ALARM CONTRACTOR FOR REQUIREMENTS.
- 6. PROVIDE PACKAGE ROOFTOP UNIT MANUFACTURER'S COMBINATION PROGRAMMABLE THERMOSTAT / HUMIDISTAT / CARBON-DIOXIDE SENSOR. ROOFTOP UNIT SHALL BE SUPPLIED WITH FACTORY-MOUNTED CONTROLLER, CAPABLE OF DIRECT TEMPERATURE CONTROL, HUMIDITY CONTROL AND DEMAND-CONTROL VENTILATION.
- 7. PROVIDE MANUFACTURER'S CONTROLLER FOR THE INDICATED MECHANICAL EQUIPMENT. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND COORDINATE WITH ELECTRICAL AND FIRE ALARM CONTRACTORS FOR REQUIREMENTS PRIOR TO CONSTRUCTION.



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**CONSTRUCTION SET**

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**Renovations and additions:  
Burnet City Hall**

301 E. Jackson Street  
Burnet, Texas 78611

DATE	REVISED	NOTES
6/30/2023	Δ	CITY PLAN REVIEW #1
9/21/2023	Δ	VE REVISION
11/27/2023	Δ	ADDENDUM 4

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PROJECT NO. 21-002  
 MECHANICAL DUCTWORK PLAN - AREA D

**M2.14**

STATE OF TEXAS  
 RICHARD W. SNIFF  
 123380  
 LICENSED PROFESSIONAL ENGINEER  
 11/27/23

**1 MECHANICAL DUCTWORK PLAN - AREA D**  
 SCALE: 1/4" = 1'-0"  
 M2.14

## **SECTION 230800 – COMMISSIONING OF HVAC**

### **PART 1 GENERAL**

#### **1.01 SUMMARY**

- A. This section covers the Contractor's responsibilities for commissioning; each subcontractor or installer responsible for the installation of a particular system or equipment item to be commissioned is responsible for the commissioning activities relating to that system or equipment item.
- B. The Commissioning Authority (CA) directs and coordinates all commissioning activities and provides Prefunctional Checklists and Functional Test Procedures for Contractor's use.
- C. The entire HVAC system is to be commissioned, including commissioning activities for the following specific items:
  - 1. Major and minor equipment items.
  - 2. Piping systems and equipment.
  - 3. Ductwork and accessories.
  - 4. Other equipment and systems explicitly identified elsewhere in Contract Documents as requiring commissioning.
- D. The Prefunctional Checklist and Functional Test requirements specified in this section are in addition to, not a substitute for, inspection or testing specified in other sections.

#### **1.02 REFERENCE STANDARDS**

- A. ASHRAE Guideline 1.1 - HVAC&R Technical Requirements for the Commissioning Process 2007, with Errata (2012).

#### **1.03 SUBMITTALS**

- A. Updated Submittals: Keep the Commissioning Authority informed of all changes to control system documentation made during programming and setup; revise and resubmit when substantial changes are made.
- B. Startup Reports, Prefunctional Checklists, and Trend Logs: Submit for approval of Commissioning Authority.
- C. Draft Training Plan: In addition to requirements specified in Division 1, include:
  - 1. Follow the recommendations of ASHRAE Guideline 1.1.
  - 2. Demonstration and instruction on function and overrides of any local packaged controls.
- D. Training Manuals.

1. Provide three extra copies of the controls training manuals in a separate manual from the O&M manuals.

## **PART 2 PRODUCTS**

### **2.01 TEST EQUIPMENT**

- A. Provide all standard testing equipment required to perform startup and initial checkout and required functional performance testing; unless otherwise noted such testing equipment will NOT become the property of Owner.
- B. Equipment-Specific Tools: Where special testing equipment, tools and instruments are specific to a piece of equipment, are only available from the vendor, and are required in order to accomplish startup or Functional Testing, provide such equipment, tools, and instruments as part of the work at no extra cost to Owner; such equipment, tools, and instruments are to become the property of Owner.

## **PART 3 EXECUTION**

### **3.01 PREPARATION**

- A. Cooperate with the Commissioning Authority in development of the Prefunctional Checklists and Functional Test Procedures.
- B. Furnish additional information requested by the Commissioning Authority.
- C. Prepare a preliminary schedule for HVAC pipe and duct system testing, flushing and cleaning, equipment start-up and testing, adjusting, and balancing start and completion for use by the Commissioning Authority; update the schedule as appropriate.
- D. Notify the Commissioning Authority when pipe and duct system testing, flushing, cleaning, startup of each piece of equipment and testing, adjusting, and balancing will occur; when commissioning activities not yet performed or not yet scheduled will delay construction notify ahead of time and be proactive in seeing that the Commissioning Authority has the scheduling information needed to efficiently execute the commissioning process.
- E. Put all HVAC equipment and systems into operation and continue operation during each working day of testing, adjusting, and balancing and commissioning, as required.

### **3.02 INSPECTING AND TESTING - GENERAL**

- A. Submit startup plans, startup reports, and Prefunctional Checklists for each item of equipment or other assembly to be commissioned.
- B. Perform the Functional Tests directed by the Commissioning Authority for each item of equipment or other assembly to be commissioned.
- C. Provide two-way radios for use during the testing.
- D. Valve/Damper Stroke Setup and Check:

1. For all valve/damper actuator positions checked, verify the actual position against the control system readout.
  2. Set pump/fan to normal operating mode.
  3. Command valve/damper closed; visually verify that valve/damper is closed and adjust output zero signal as required.
  4. Command valve/damper open; verify position is full open and adjust output signal as required.
  5. Command valve/damper to a few intermediate positions.
  6. If actual valve/damper position does not reasonably correspond, replace actuator or add pilot positioner (for pneumatics).
- E. Deficiencies: Correct deficiencies and re-inspect or re-test, as applicable, at no extra cost to Owner.

### **3.03 TAB COORDINATION**

- A. TAB: Testing, adjusting, and balancing of HVAC.
- B. Coordinate commissioning schedule with TAB schedule.
- C. Have all required Prefunctional Checklists, calibrations, startup and component Functional Tests of the system completed and approved by the Commissioning Authority prior to starting TAB.

### **3.04 OPERATION AND MAINTENANCE MANUALS**

- A. Submit manuals related to items that were commissioned to Commissioning Authority for review; make changes recommended by Commissioning Authority.
- B. Commissioning Authority will add commissioning records to manuals after submission to Owner.

### **3.05 DEMONSTRATION AND TRAINING**

- A. Demonstrate operation and maintenance of HVAC system to Owner' personnel; if during any demonstration, the system fails to perform in accordance with the information included in the O&M manual, stop demonstration, repair or adjust, and repeat demonstration. Demonstrations may be combined with training sessions if appropriate.
- B. These demonstrations are in addition to, and not a substitute for, Prefunctional Checklists and demonstrations to the Commissioning Authority during Functional Testing.
- C. Provide classroom and hands-on training of Owner's designated personnel on operation and maintenance of the HVAC system and all equipment items indicated to be commissioned.

- D. Provide the services of manufacturer representatives to assist instructors where necessary.

**END OF SECTION**

## **SECTION 260800 – COMMISSIONING OF LIGHTING CONTROLS**

### **PART 1 GENERAL**

#### **1.01 SUMMARY**

- A. This section covers the Contractor's responsibilities for commissioning; each subcontractor or installer responsible for the installation of a particular system or equipment item to be commissioned is responsible for the commissioning activities relating to that system or equipment item.
- B. The Commissioning Authority (CA) directs and coordinates all commissioning activities and provides System Verification Checklists for Contractor's use.
- C. The entire lighting control system is to be commissioned, including commissioning activities for the following specific items:
  - 1. Emergency ballasts and shunt relays.
  - 2. Manual overrides.
  - 3. Dimming controls.
  - 4. Time schedules.
  - 5. Occupancy sensors.
  - 6. Other equipment and systems explicitly identified elsewhere in Contract Documents as requiring commissioning.
- D. The System Verification Checklist requirements specified in this section are in addition to, not a substitute for, inspection or testing specified in other sections.

#### **1.02 REFERENCE STANDARDS**

- A. ASHRAE Guideline 0 – *The Commissioning Process* (2019).
- B. IES DG-29-11 – *The Commissioning Process Applied to Lighting and Controls Systems* (2011).

#### **1.03 SUBMITTALS**

- A. Updated Submittals: Keep the Commissioning Authority informed of all changes to control system documentation made during programming and setup; revise and resubmit when substantial changes are made.
- B. System Verification Checklists: Submit for approval of Commissioning Authority.
- C. Draft Training Plan: In addition to requirements specified in Division 1, include:
  - 1. Follow the recommendations of ASHRAE Guideline 0.

2. Demonstration and instruction on function and overrides of any local packaged controls.
- D. Training Manuals.
1. Provide three extra copies of the controls training manuals in a separate manual from the O&M manuals.

## **PART 2 PRODUCTS**

(NOT USED.)

## **PART 3 EXECUTION**

### **3.01 PREPARATION**

- A. Cooperate with the Commissioning Authority in development of the System Verification Checklists.
- B. Furnish additional information requested by the Commissioning Authority.
- C. Prepare a preliminary schedule for lighting control system testing start and completion for use by the Commissioning Authority; update the schedule as appropriate.
- D. Put all lighting controls systems into operation and continue operation during each working day of commissioning, as required.

### **3.02 INSPECTING AND TESTING - GENERAL**

- A. Submit System Verification Checklists for each item of equipment or other assembly to be commissioned.
- B. Perform the Functional Tests directed by the Commissioning Authority for each item of equipment or other assembly to be commissioned.
- C. Provide two-way radios for use during the testing.
- D. Deficiencies: Correct deficiencies and re-inspect or re-test, as applicable, at no extra cost to Owner.

### **3.03 OPERATION AND MAINTENANCE MANUALS**

- A. Submit manuals related to items that were commissioned to Commissioning Authority for review; make changes recommended by Commissioning Authority.
- B. Commissioning Authority will add commissioning records to manuals after submission to Owner.

### **3.04 DEMONSTRATION AND TRAINING**

- A. Demonstrate operation of lighting control system to Owner' personnel; if during any demonstration, the system fails to perform in accordance with the information included



in the O&M manual, stop demonstration, repair or adjust, and repeat demonstration. Demonstrations may be combined with training sessions if appropriate.

- B. These demonstrations are in addition to, and not a substitute for, System Verification Checklists and demonstrations to the Commissioning Authority during Functional Testing.
- C. Provide the services of manufacturer representatives to assist instructors where necessary.

**END OF SECTION**