

- INDICATES FRAME SHEAR WALL. SEE S3.2 FOR SHEAR WALL INFORMATION
- INDICATES DEPRESSION IN FOUNDATION WALL @ DOORS. SEE 5/S2.0 FOR THRESHOLD DETAIL.
- INDICATES METAL STUD FRAME WALL

- NOTES:**
- TOP OF FOOTING @ EL. (-2'-0") UNLESS NOTED OTHERWISE.
 - TOP OF PIER @ EL. (-0'-8") UNLESS NOTED OTHERWISE.
 - SEE SHEET S4.0 FOR GENERAL STRUCTURAL NOTES.
 - PROVIDE POSITIVE DRAINAGE TO ALL FLOOR DRAINS/SINKS (MIN 6") BEYOND DRAIN) SEE PLUMBING DRAWINGS FOR EXACT LOCATIONS
 - SEE SHEET S2.1 FOR TYPICAL CORNER BAR DETAILS.
 - MINIMUM REQUIREMENTS FOR SILL PLATE CONNECTION TO FOUNDATION:
 MINIMUM # OF BOLTS = 2 PER PIECE OF SILL
 MAXIMUM DISTANCE FROM END OF SILL TO ANCHOR = 12"
 MINIMUM DISTANCE FROM END OF SILL TO ANCHOR = 4"
 - WHERE SILL PLATES ARE NOT CONTINUOUS AT ALL LOCATIONS EXCEPT SHEAR WALLS, USE SIMPSON "RPS222" TIE FOR NOTCH < 5 1/2", USE SIMPSON "RPS282" FOR NOTCH < 12", W/ 16d NAILS INTO SILL PLATE ENDS. (MAX. SPACING BETWEEN STUDS = 16" O.C.)
 - WHERE SILL PLATES ARE NOT CONTINUOUS AT SHEAR WALLS, CONTACT ENGINEER OF RECORD FOR RESPONSE.

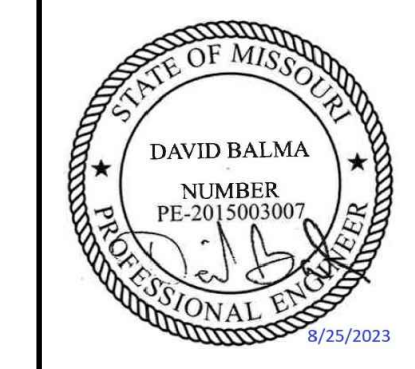
FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F1	4'-0"x4'-0"x1'-0"	5-#5 E.W.-B.
F2	3'-0"x3'-0"x1'-0"	4-#5 E.W.-B.
F3	6'-0"x15'-0"x3'-0"	14-#7 L.W.-T&B #6 @ 12" O.C. S.W.-T&B
F4	5'-0"x11'-0"x3'-0"	11-#7 L.W.-T&B #6 @ 12" O.C. S.W.-T&B

PIER SCHEDULE			
MARK	SIZE	REINFORCING	REMARKS
P1	1'-4"x1'-4"	4-#6 VERT. #4 TIES @ 12" O.C.	SEE DETAIL 8/S2.0

COLUMN & BASE PLATE SCHEDULE				
MARK	MEMBER	SHAPE	BASE PLATE	REMARKS
C1	HSS4x4x1/4	⊕	A	EXTEND TO ROOF
C2	HSS4x4x5/16	⊕	B	BRACED FRAME
C3	HSS4x4x5/16	⊕	A	EXTEND TO ROOF

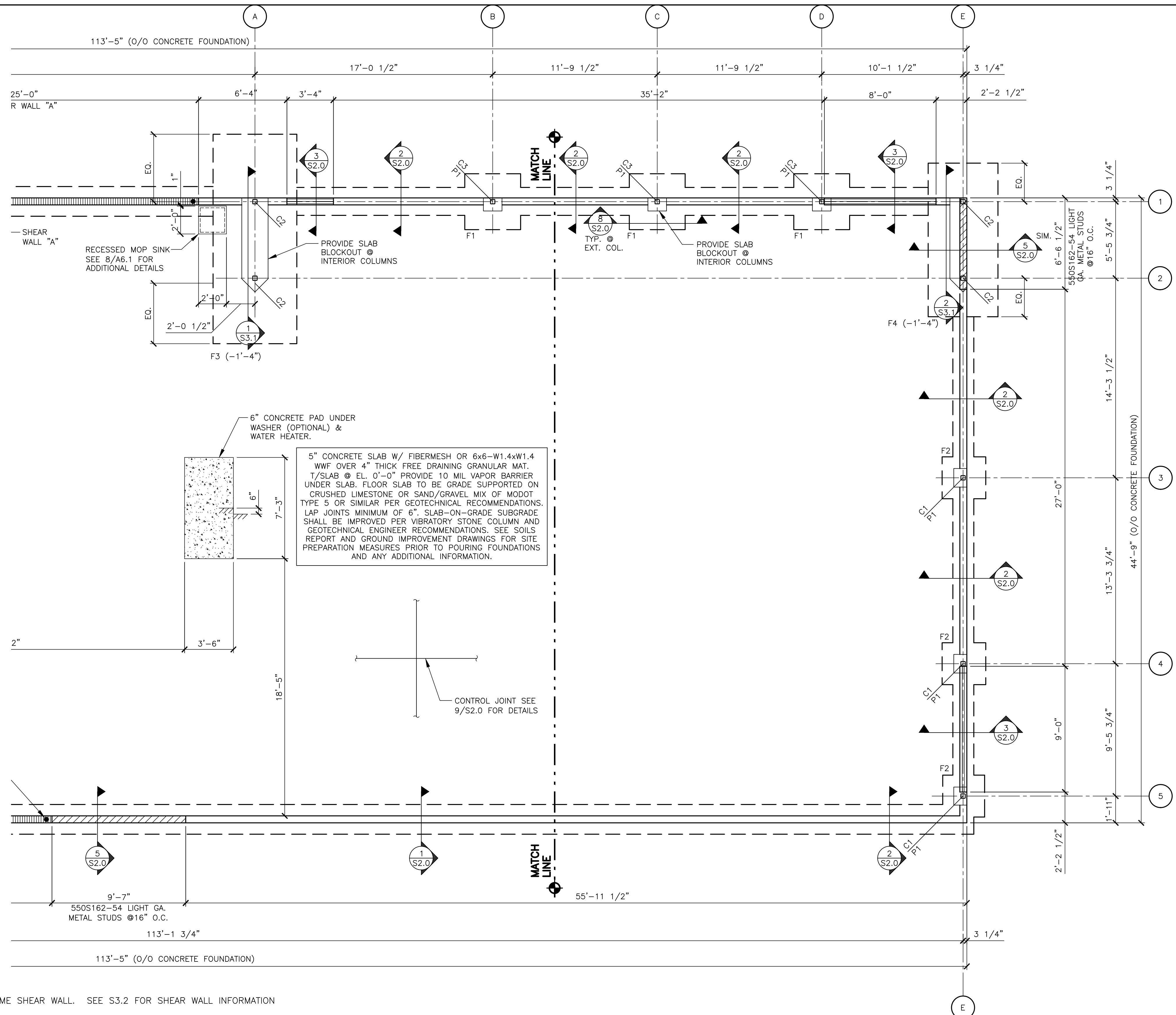
1 PARTIAL FOUNDATION PLAN
 S1.0 1/4"=1'-0"

ON-SITE SOILS REQUIRE GROUND IMPROVEMENT BY INSTALLATION OF VIBRATORY STONE COLUMNS PER THE GEOTECHNICAL REPORT RECOMMENDATIONS. FOUNDATION DESIGN SUBJECT TO CHANGE PENDING VIBRATORY STONE COLUMNS DESIGN



PREPARED BY: **McDonald's USA, LLC**
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DRAWN BY	J.CARRAS	DATE	2022_08
REVIEWED BY	J.PERRY	DATE ISSUED	10-21-2022
C.S.G. PROJECT #	TKA_36027.MCD	S.ALEM, MO	
TITLE	2022 STANDARD BUILDING - BB20		
DESCRIPTION	45114-WOOD/WOOD		
	WOOD BEARING WALLS W/HARDBOARD SIDING		
	WOOD ROOF TRUSS FRAMING		
	EPS/BATTEN/ACM PANEL/HARDBOARD SIDING		
SHEET NO.	S1.0	24-1289.00.0	
	FOUNDATION PLAN		



6" CONCRETE PAD UNDER WASHER (OPTIONAL) & WATER HEATER.

5" CONCRETE SLAB W/ FIBERMESH OR 6x6-W1.4xW1.4 WWF OVER 4" THICK FREE DRAINING GRANULAR MAT. T/SLAB @ EL. 0'-0" PROVIDE 10 MIL VAPOR BARRIER UNDER SLAB. FLOOR SLAB TO BE GRADE SUPPORTED ON CRUSHED LIMESTONE OR SAND/GRAVEL MIX OF MODOT TYPE 5 OR SIMILAR PER GEOTECHNICAL RECOMMENDATIONS. LAP JOINTS MINIMUM OF 6". SLAB-ON-GRADE SUBGRADE SHALL BE IMPROVED PER VIBRATORY STONE COLUMN AND GEOTECHNICAL ENGINEER RECOMMENDATIONS. SEE SOILS REPORT AND GROUND IMPROVEMENT DRAWINGS FOR SITE PREPARATION MEASURES PRIOR TO POURING FOUNDATIONS AND ANY ADDITIONAL INFORMATION.

- INDICATES FRAME SHEAR WALL. SEE S3.2 FOR SHEAR WALL INFORMATION
- INDICATES DEPRESSION IN FOUNDATION WALL @ DOORS. SEE 5/S2.0 FOR THRESHOLD DETAIL.
- INDICATES METAL STUD FRAME WALL

1 PARTIAL FOUNDATION PLAN
S1.1 1/4"=1'-0"

- NOTES:**
- TOP OF FOOTING @ EL. (-2'-0") UNLESS NOTED OTHERWISE.
 - TOP OF PIER @ EL. (-0'-8") UNLESS NOTED OTHERWISE.
 - SEE SHEET S4.0 FOR GENERAL STRUCTURAL NOTES.
 - PROVIDE POSITIVE DRAINAGE TO ALL FLOOR DRAINS/SINKS (MIN 6") BEYOND DRAIN) SEE PLUMBING DRAWINGS FOR EXACT LOCATIONS
 - SEE SHEET S2.1 FOR TYPICAL CORNER BAR DETAILS.
 - MINIMUM REQUIREMENTS FOR SILL PLATE CONNECTION TO FOUNDATION:**
 MINIMUM # OF BOLTS = 2 PER PIECE OF SILL
 MAXIMUM DISTANCE FROM END OF SILL TO ANCHOR = 12"
 MINIMUM DISTANCE FROM END OF SILL TO ANCHOR = 4"
 - WHERE SILL PLATES ARE NOT CONTINUOUS AT ALL LOCATIONS EXCEPT SHEAR WALLS, USE SIMPSON "RPS22Z" TIE FOR NOTCH < 5 1/2", USE SIMPSON "RPS28Z" FOR NOTCH < 12", W/ 16d NAILS INTO SILL PLATE ENDS. (MAX. SPACING BETWEEN STUDS = 16" O.C.)
 - WHERE SILL PLATES ARE NOT CONTINUOUS AT SHEAR WALLS, CONTACT ENGINEER OF RECORD FOR RESPONSE.

ON-SITE SOILS REQUIRE GROUND IMPROVEMENT BY INSTALLATION OF VIBRATORY STONE COLUMNS PER THE GEOTECHNICAL REPORT RECOMMENDATIONS. FOUNDATION DESIGN SUBJECT TO CHANGE PENDING VIBRATORY STONE COLUMNS DESIGN

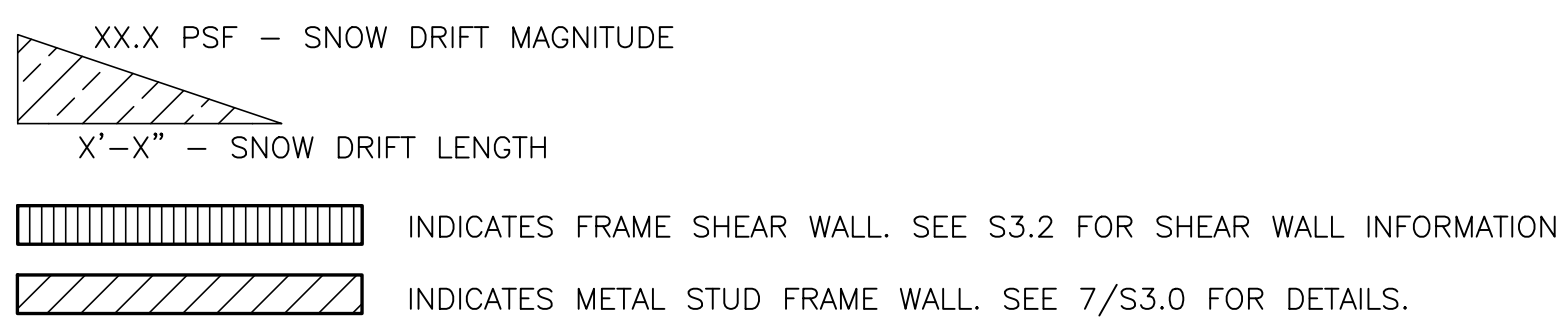
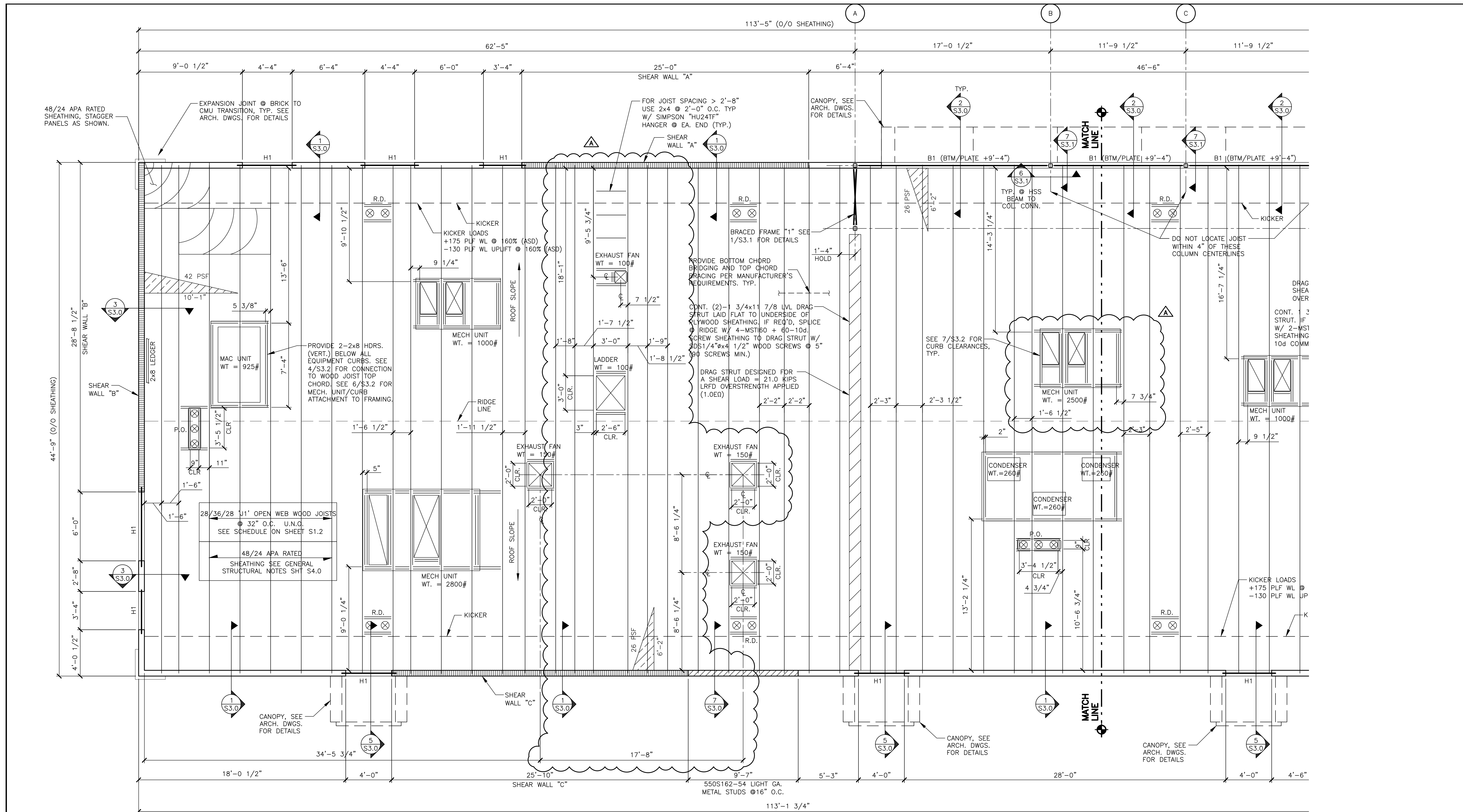
FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F1	4'-0"x4'-0"x1'-0"	5-#5 E.W.-B.
F2	3'-0"x3'-0"x1'-0"	4-#5 E.W.-B.
F3	6'-0"x15'-0"x3'-0"	14-#7 L.W.-T&B #6 @ 12" O.C. S.W.-T&B
F4	5'-0"x11'-0"x3'-0"	11-#7 L.W.-T&B #6 @ 12" O.C. S.W.-T&B

PIER SCHEDULE			
MARK	SIZE	REINFORCING	REMARKS
P1	1'-4"x1'-4"	4-#6 VERT. #4 TIES @ 12" O.C.	SEE DETAIL 8/S2.0

COLUMN & BASE PLATE SCHEDULE				
MARK	MEMBER	SHAPE	BASE PLATE	REMARKS
C1	HSS4x4x1/4	⊕	A	EXTEND TO ROOF
C2	HSS4x4x5/16	⊕	B	BRACED FRAME
C3	HSS4x4x5/16	⊕	A	EXTEND TO ROOF

NOTE: SEE DETAIL 3/S3.1 FOR BASE PLATE AND ANCHOR ROD DETAILS

PREPARED BY: McDonald's USA, LLC DRAWN BY: J.CARRAS STD ISSUE DATE: 2022_08 REVIEWED BY: J.PERRY DATE ISSUED: 10-21-2022 C.S.G. PROJECT # TKA_36027.MCD SALEM, MO							
TITLE: 2022 STANDARD BUILDING - BB20 DESCRIPTION: 45114-WOOD/WOOD BEARING WALLS W/HARDBOARD SIDING WOOD ROOF TRUSS FRAMING EPS/BATTEN/ACM PANEL/HARDBOARD SIDING SITE ID: 024-1289 SALEM, MO							
S1.1							
SHEET NO. FOUNDATION PLAN							
REV. DATE DESCRIPTION							



- NOTES:**
- SEE SHEET S4.0 FOR GENERAL STRUCTURAL NOTES.
 - R.D.: ROOF DRAINS
 - P.O.: ROOF CURB PORTAL OPENING - COORDINATE WITH MECHANICAL DRAWINGS.
 - WHEN TOP PLATES ARE NOT CONTINUOUS, USE SIMPSON "RPS22" TIE FOR NOTCH < 5 1/2", USE SIMPSON "RPS28" TIES FOR NOTCH < 12", W/ 16d NAILS INTO TOP PLATE ENDS. (MAX. SPACING BETWEEN STUDS = 16" O.C.)
 - TOP PLATE SPLICE SHALL BE MINIMUM LENGTH OF 48" WITH 2 ROWS (2 1/2" APART) OF 22-16d COMMON NAILS SPACED @ 2" ON CENTER (44 TOTAL).
 - SEE PLAN & 5/S3.2 FOR SNOW DRIFT DIAGRAM.

BEAM SCHEDULE				
MARK	MEMBER	SHAPE	SUPPORT	REMARKS
B1	HSS16x4x1/4 LLV + 1/4" PLATE	□	1/2" END PLATE	SEE DETAIL 6/S3.1

HEADER SCHEDULE			
MARK	MEMBER	SHAPE	BEARING
H1	5 1/4"x9 1/2" LVL	⊠	SEE DETAIL 2/S3.2

JOIST SCHEDULE			
MARK	LIVE/ROOF SNOW LOAD	DEPTH	MANUFACTURER & SERIES
J1	20/20	28"/36"/28"	REDBUILT "RED-S"

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

NOTE TO CONTRACTOR:
ANY SPRINKLER LINES GREATER THAN 3" DIAMETER SHALL BE VERIFIED BY THE SPRINKLER CONTRACTOR PRIOR TO TRUSS FABRICATION.

STATE OF MISSOURI
DAVID BALMA
PROFESSIONAL ENGINEER
NUMBER PE-2019003007
8/25/2023

CORE STATES GROUP
2015 Maple Avenue
Alton, IL 61810
www.corestates.com

PREPARED BY: McDonald's USA, LLC
McDonald's USA, LLC
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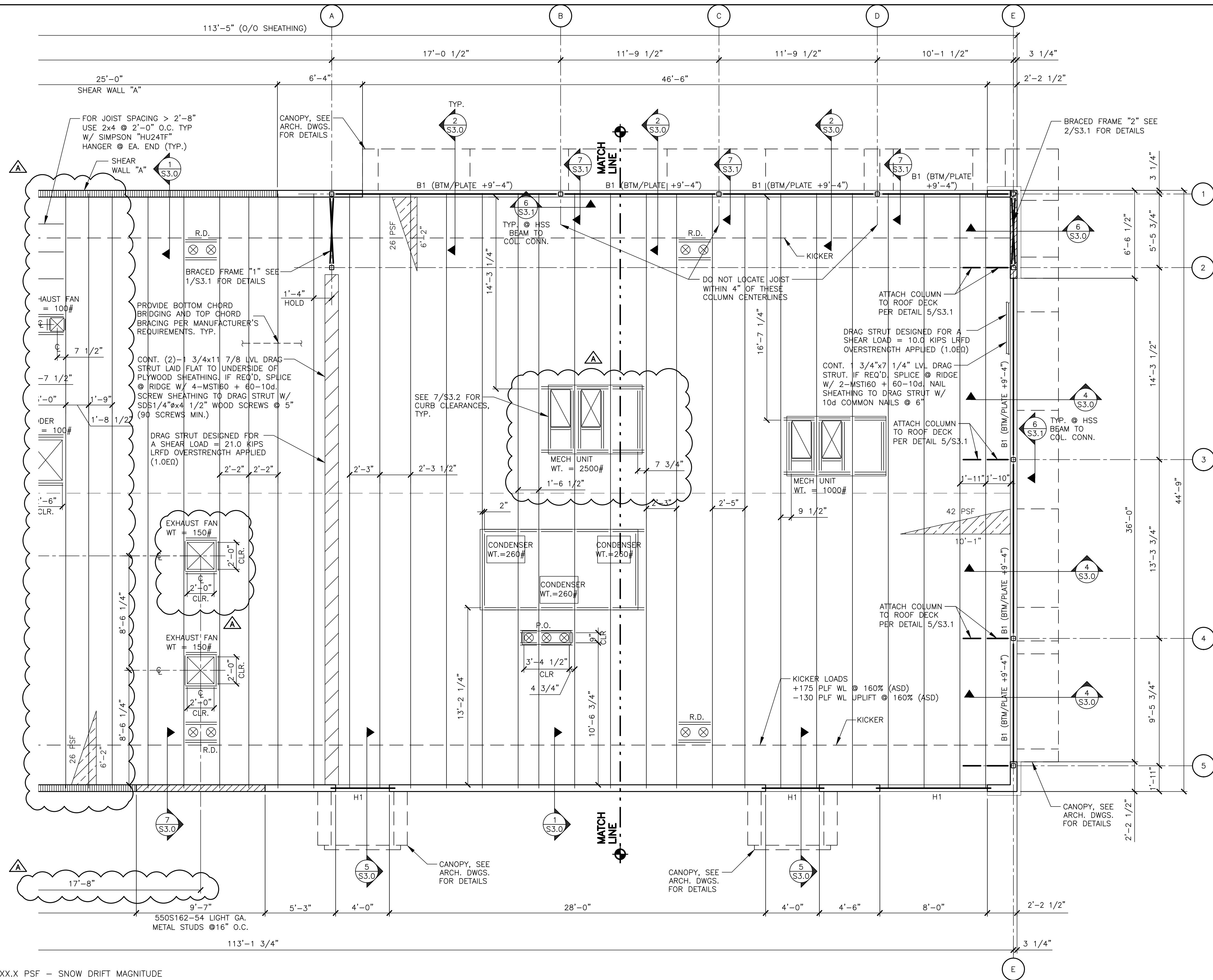
DRAWN BY: J.CARRAS
STD ISSUE DATE: 2022_08
REVIEWED BY: J.PERRY
DATE ISSUED: 10-21-2022
C.S.G. PROJECT # TKA_36027.MCD
SALEM, MO

TITLE: 2022 STANDARD BUILDING - BB20
45114-WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS W/HARDBOARD SIDING
WOOD ROOF TRUSS FRAMING
EPS/BATTEN/ACM PANEL/HARDBOARD SIDING
SITE ID: 1000 S Main Street

DATE: 8/25/2023
REV: A
ESE UPDATES
DESCRIPTION

JPP
BY

24-1289.00.0
S1.2
FRAMING PLAN



XX.X PSF - SNOW DRIFT MAGNITUDE
 X'-X" - SNOW DRIFT LENGTH

INDICATES FRAME SHEAR WALL. SEE S3.2 FOR SHEAR WALL INFORMATION
 INDICATES METAL STUD FRAME WALL. SEE 7/S3.0 FOR DETAILS.

- NOTES:
- SEE SHEET S4.0 FOR GENERAL STRUCTURAL NOTES.
 - R.D.: ROOF DRAINS
 - P.O.: ROOF CURB PORTAL OPENING - COORDINATE WITH MECHANICAL DRAWINGS.
 - WHEN TOP PLATES ARE NOT CONTINUOUS, USE SIMPSON "RPS22" TIE FOR NOTCH < 5 1/2", USE SIMPSON "RPS28" TIES FOR NOTCH > 5 1/2", W/ 16d NAILS INTO TOP PLATE ENDS. (MAX. SPACING BETWEEN STUDS = 16" O.C.)
 - TOP PLATE SPLICE SHALL BE MINIMUM LENGTH OF 48" WITH 2 ROWS (2 1/2" APART) OF 22-16d COMMON NAILS SPACED @ 2" ON CENTER (44 TOTAL).
 - SEE PLAN & 5/S3.2 FOR SNOW DRIFT DIAGRAM.

BEAM SCHEDULE				
MARK	MEMBER	SHAPE	SUPPORT	REMARKS
B1	HSS16x4x1/4 LLV + 1/4" PLATE	□	1/2" END PLATE	SEE DETAIL 6/S3.1

HEADER SCHEDULE			
MARK	MEMBER	SHAPE	BEARING
H1	5 1/4"x9 1/2" LVL	⊠	SEE DETAIL 2/S3.2

JOIST SCHEDULE			
MARK	LIVE/ROOF SNOW LOAD	DEPTH	MANUFACTURER & SERIES
J1	20/20	28"/36"/28"	REDBUILT "RED-S"

NOTE: SEE DETAIL 4/S3.2 FOR JOIST DETAILS AND SUPPLIER INFORMATION

1 PARTIAL FRAMING PLAN
 S1.3 1/4"=1'-0"

NOTE TO CONTRACTOR:
 ANY SPRINKLER LINES GREATER THAN 3" DIAMETER SHALL BE VERIFIED BY THE SPRINKLER CONTRACTOR PRIOR TO TRUSS FABRICATION.

STATE OF MISSOURI
 DAVID BALMA
 NUMBER PE-2015003007
 PROFESSIONAL ENGINEER
 8/25/2023

PREPARED BY: CORE STATES GROUP
 2015 Maple Avenue
 Wichita, MO 64392
 www.corestates.com

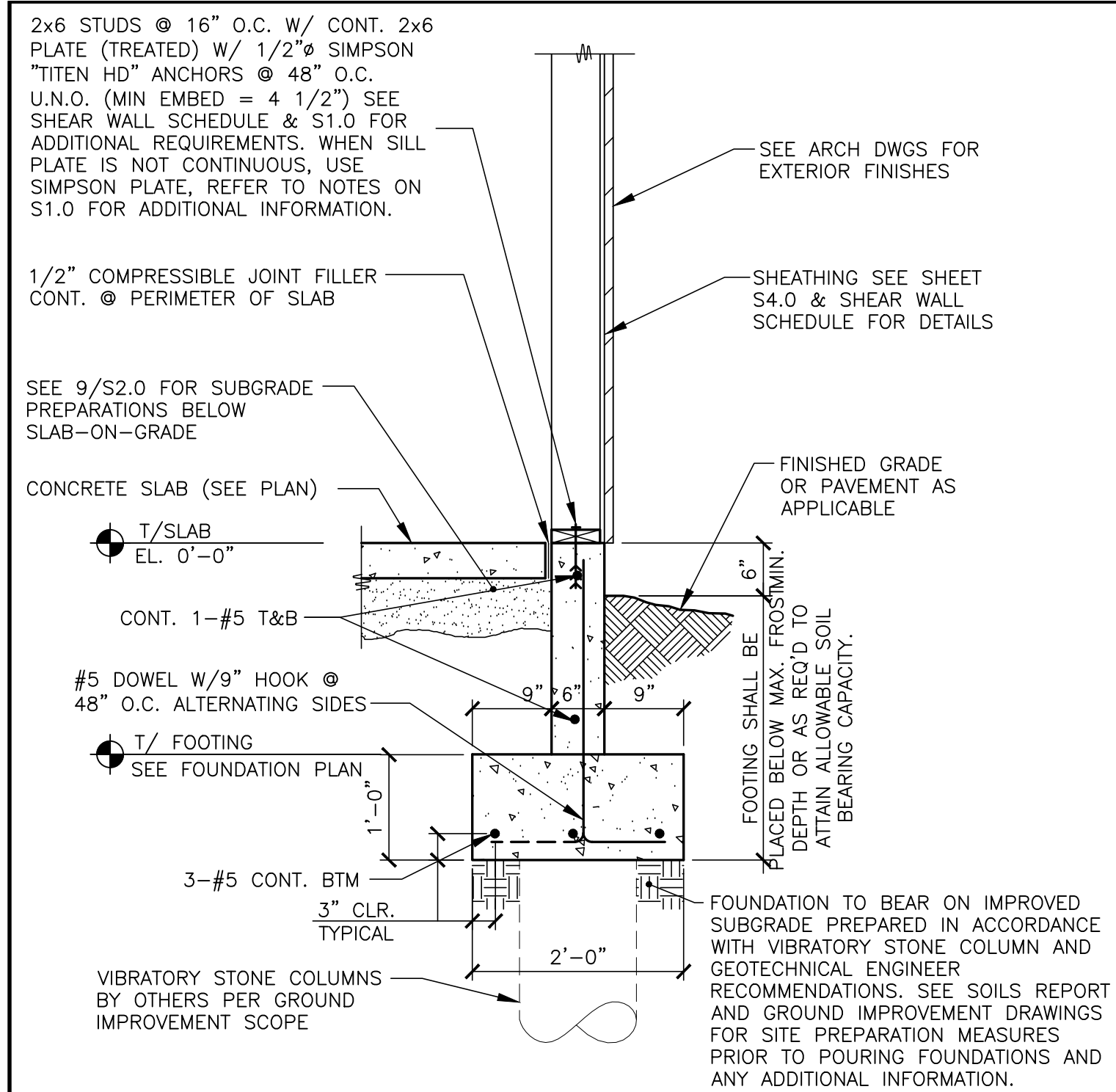
PREPARED FOR: McDonald's USA, LLC
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 STD ISSUE DATE: 2022_08
 REVIEWED BY: J.PERRY
 DATE ISSUED: 10-21-2022
 C.S.G. PROJECT # TKA_36027.MCD
 SALEM, MO

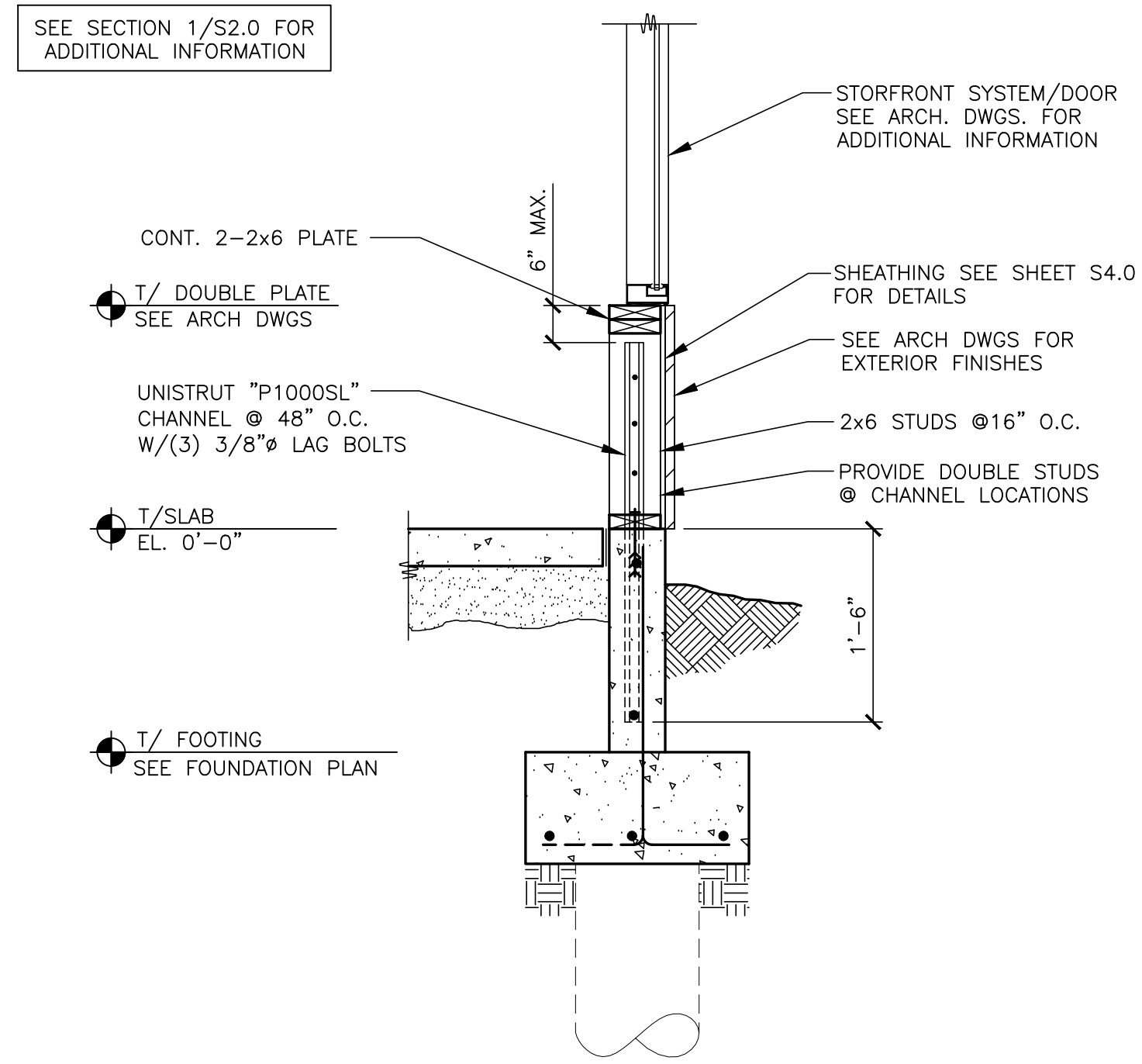
TITLE: 2022 STANDARD BUILDING - BB20
 45114 - WOOD/WOOD
 DESCRIPTION: WOOD BEARING WALLS W/HARDBOARD SIDING
 WOOD ROOF TRUSS FRAMING
 EPS/BATTEN/ACM PANEL/HARDBOARD SIDING
 SITE ID: 024-1289
 SITE ADDRESS: 1000 S Main Street, SALEM, MO

DATE: 8/25/2023
 REV: A
 ESE UPDATE
 DESCRIPTION: JPP

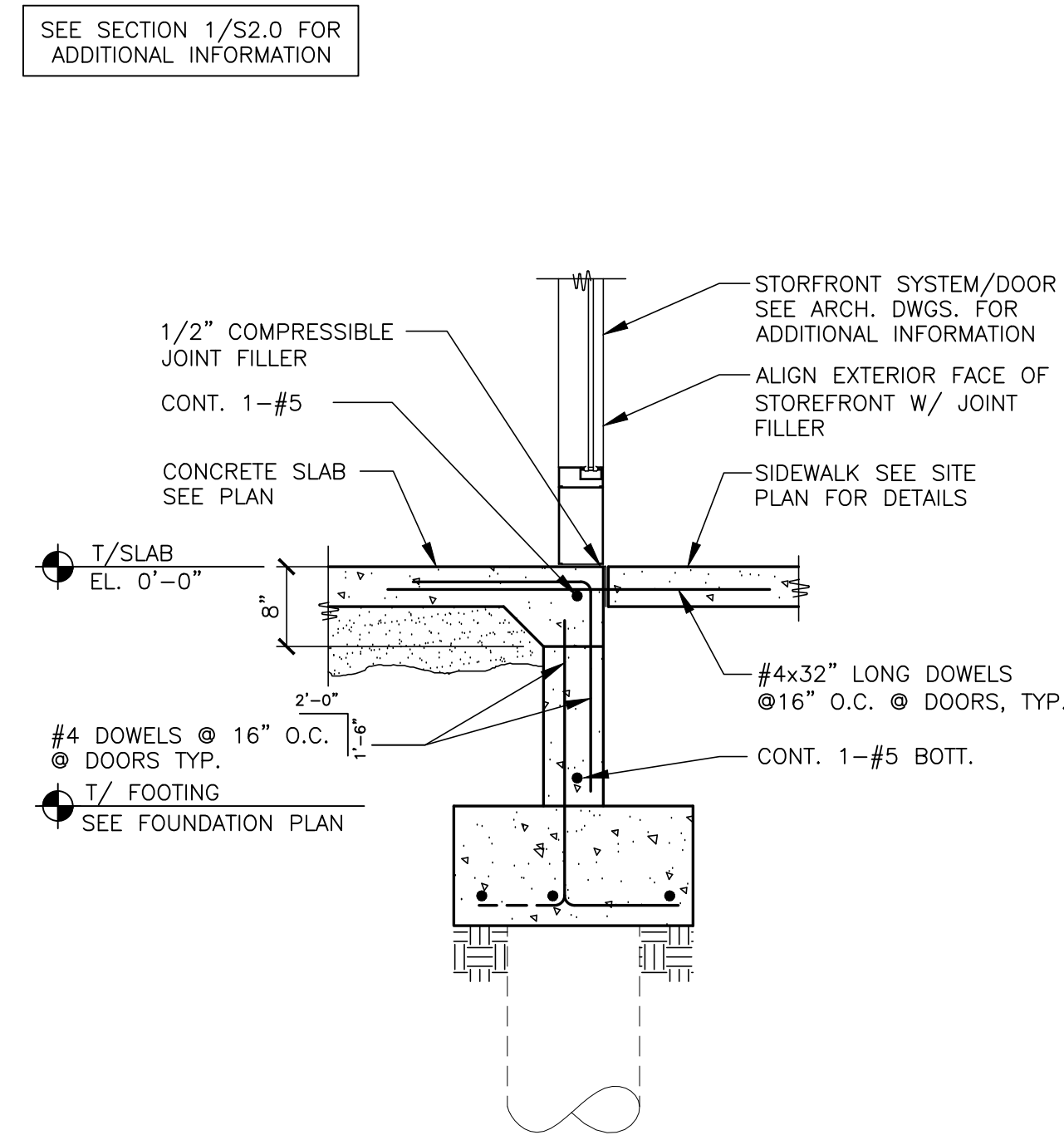
BY: JPP



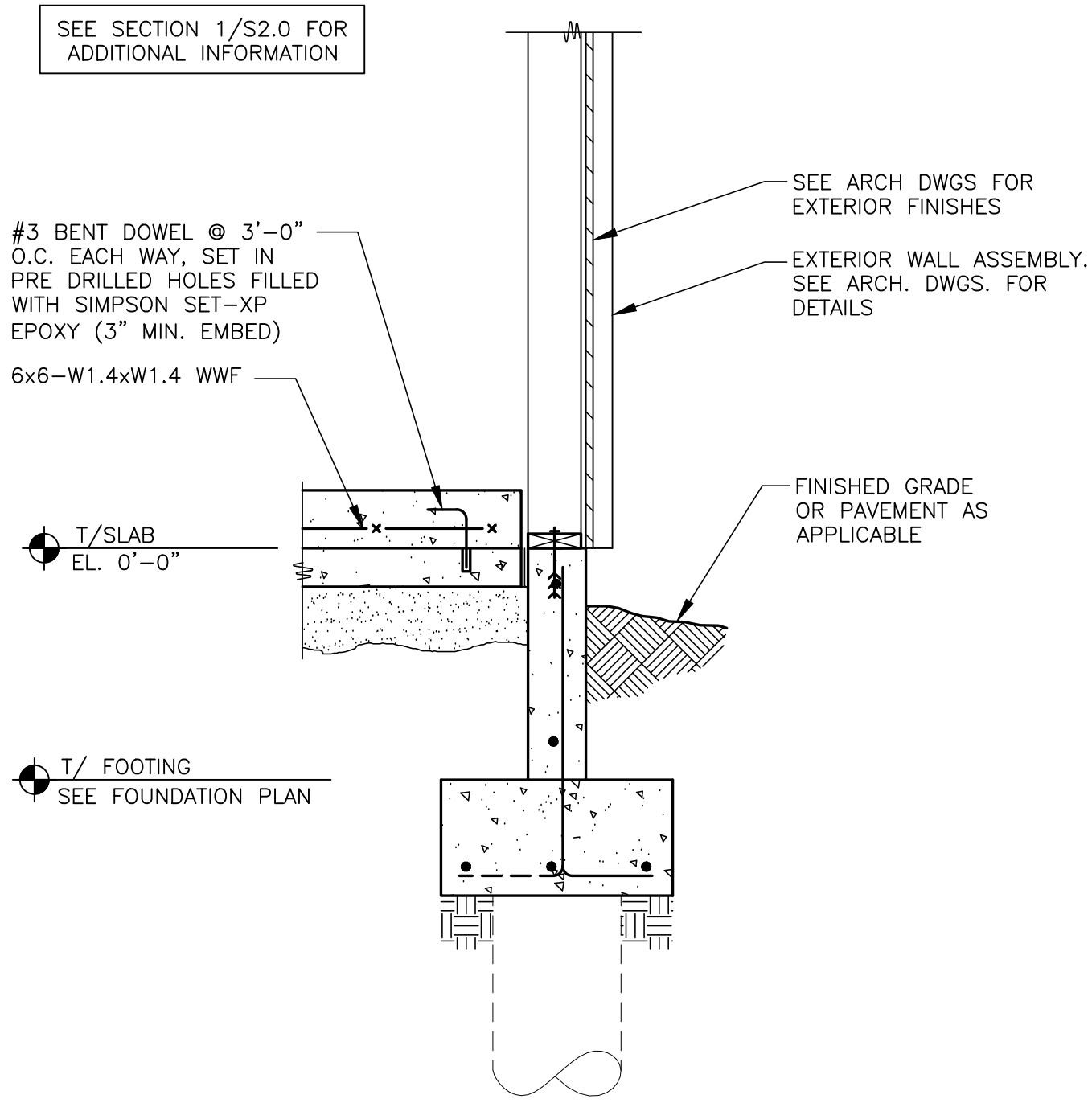
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S2.0 3/4" = 1'-0"



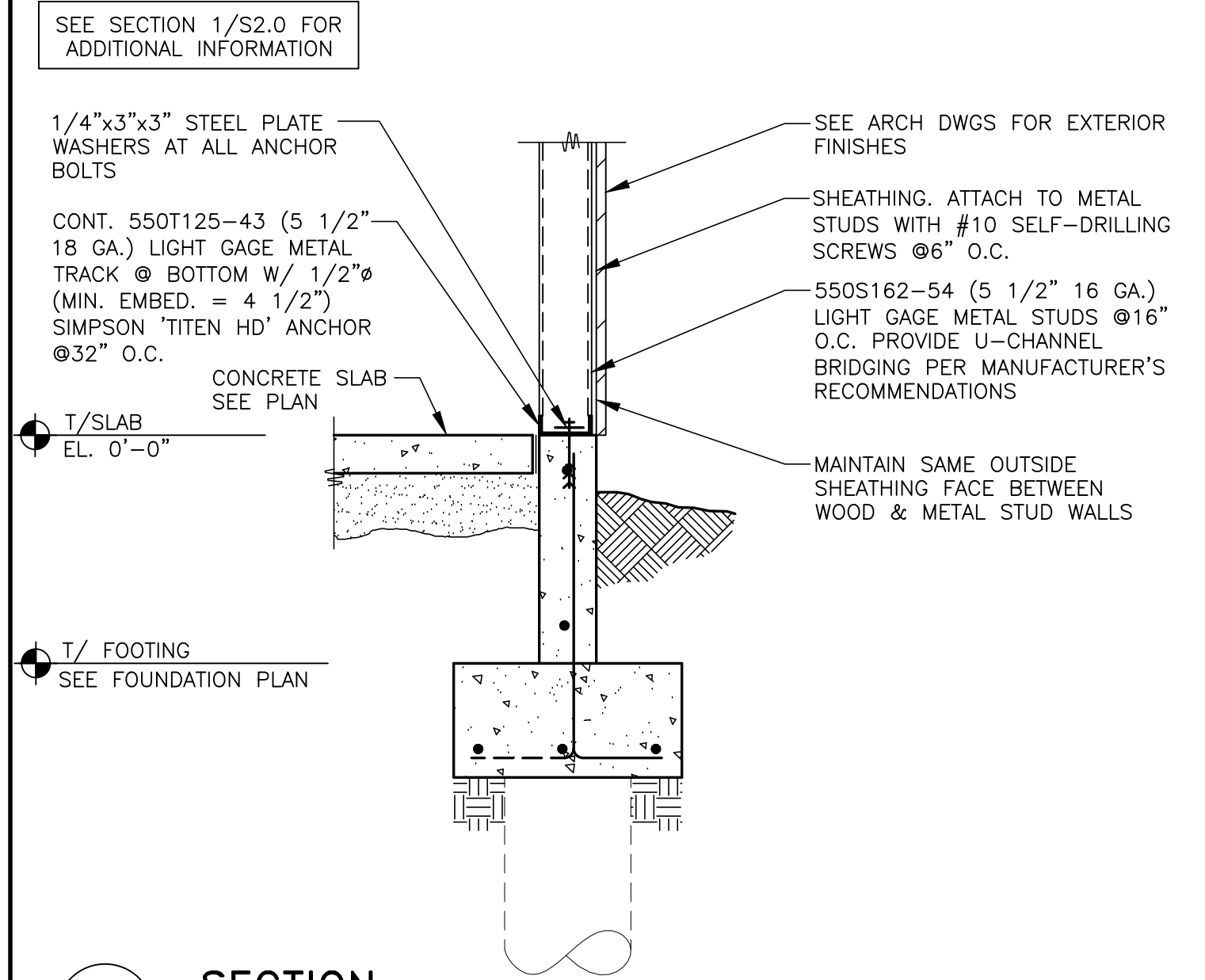
2 SECTION
S2.0 3/4" = 1'-0"



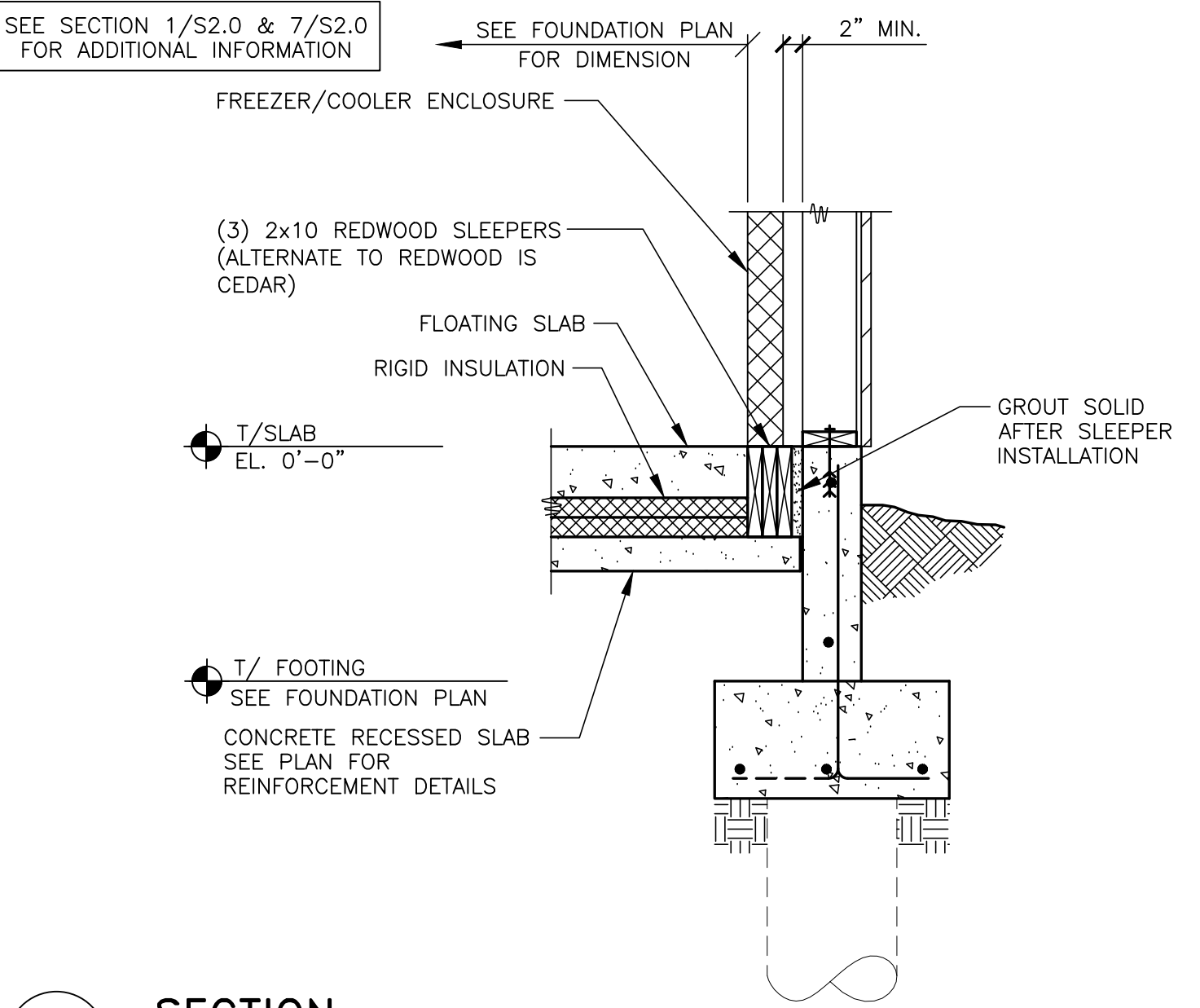
3 SECTION
S2.0 3/4" = 1'-0"



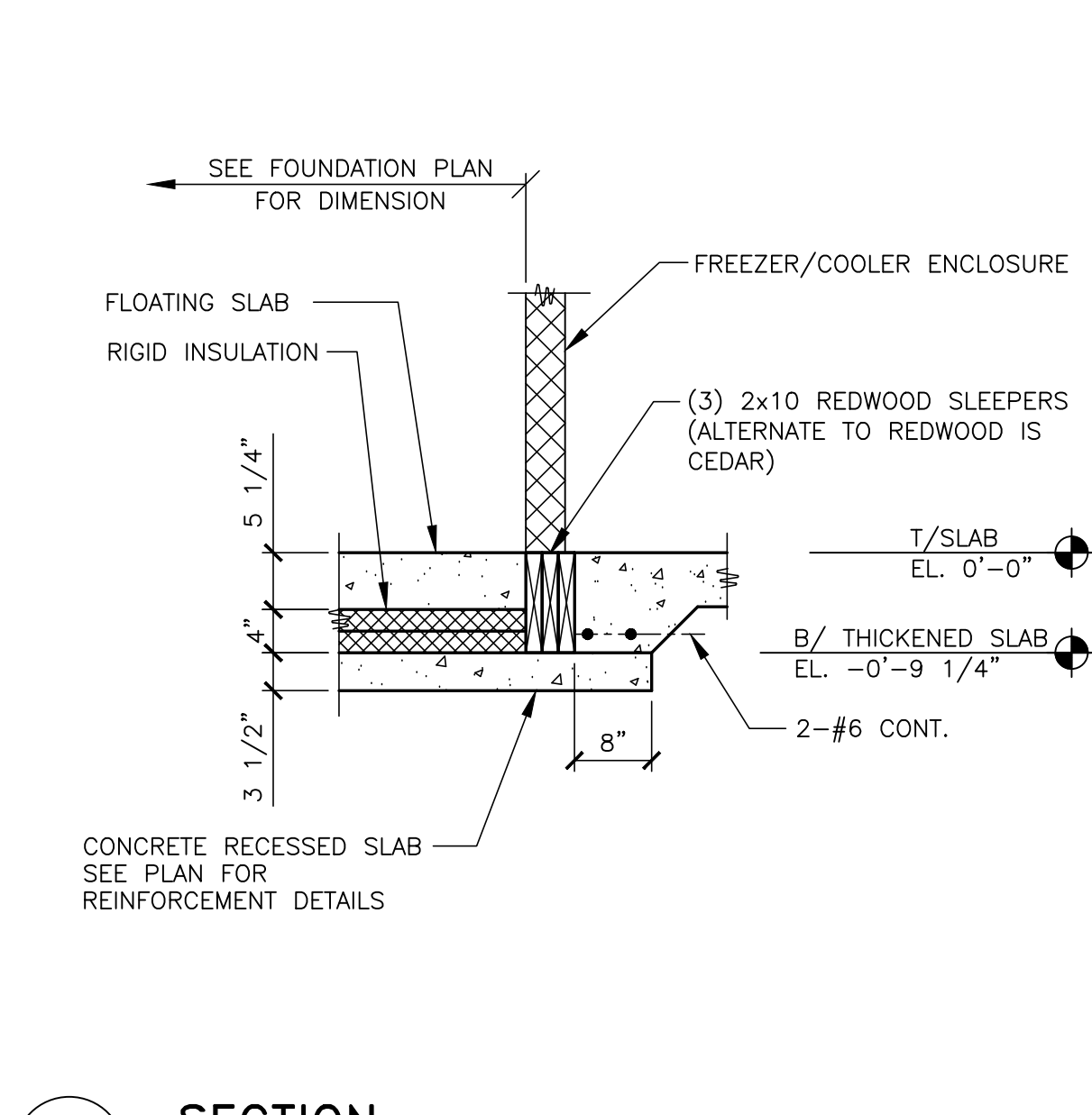
4 SECTION
S2.0 3/4" = 1'-0"



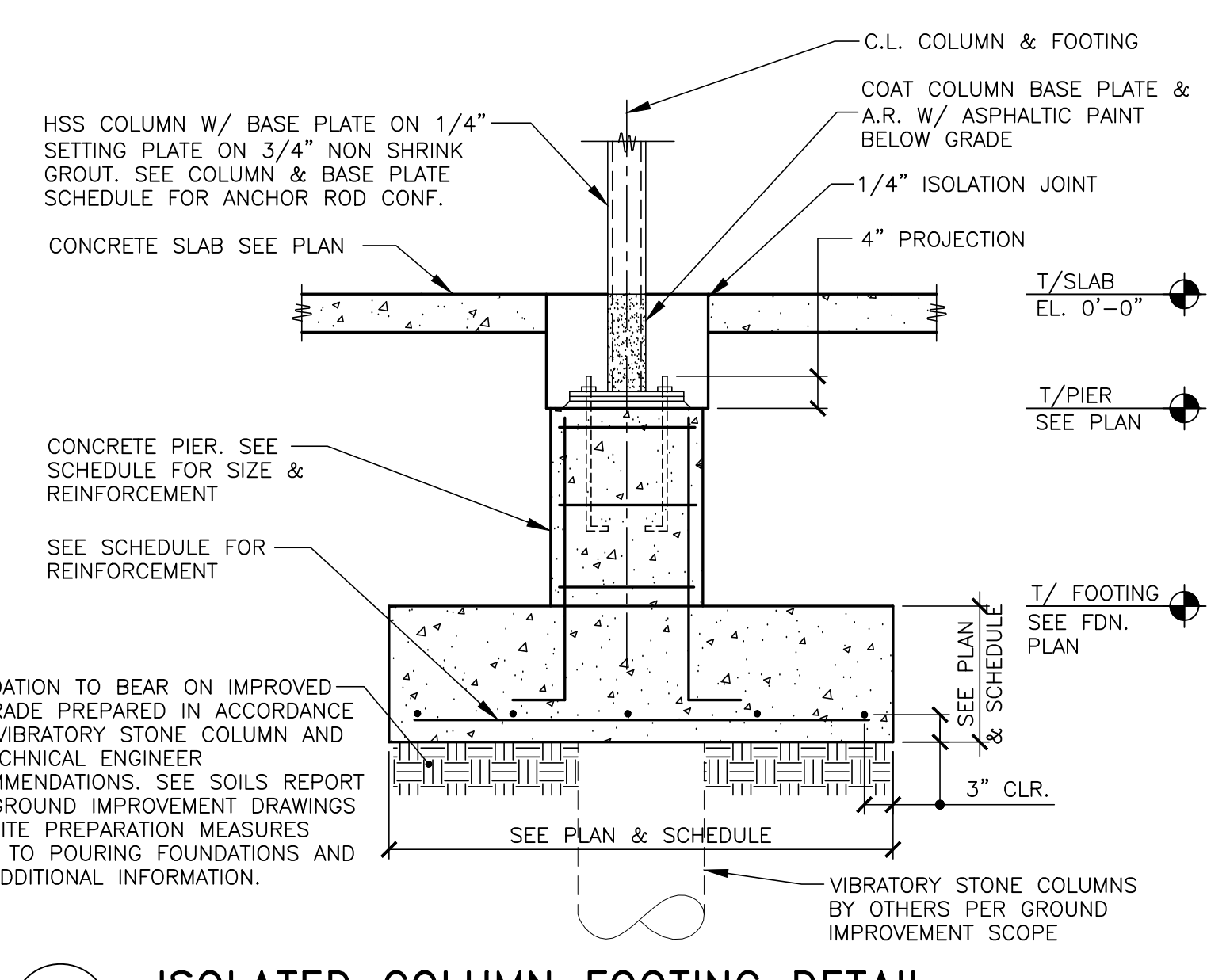
5 SECTION
S2.0 3/4" = 1'-0"



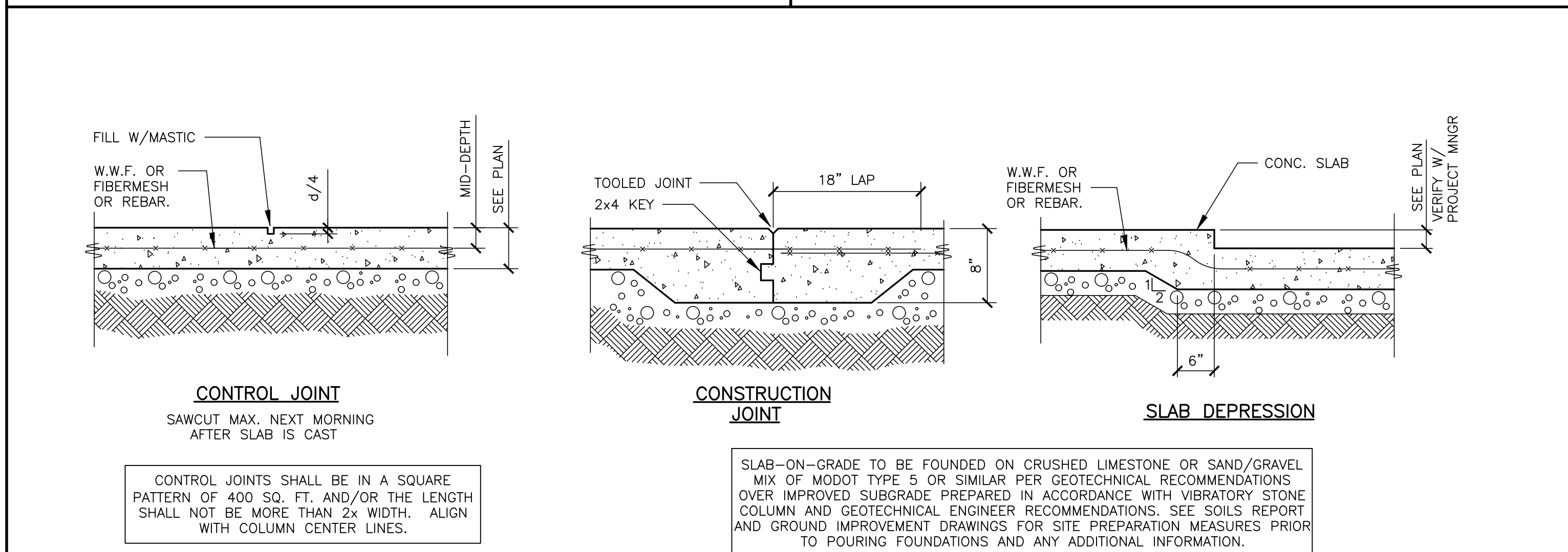
6 SECTION
S2.0 3/4" = 1'-0"



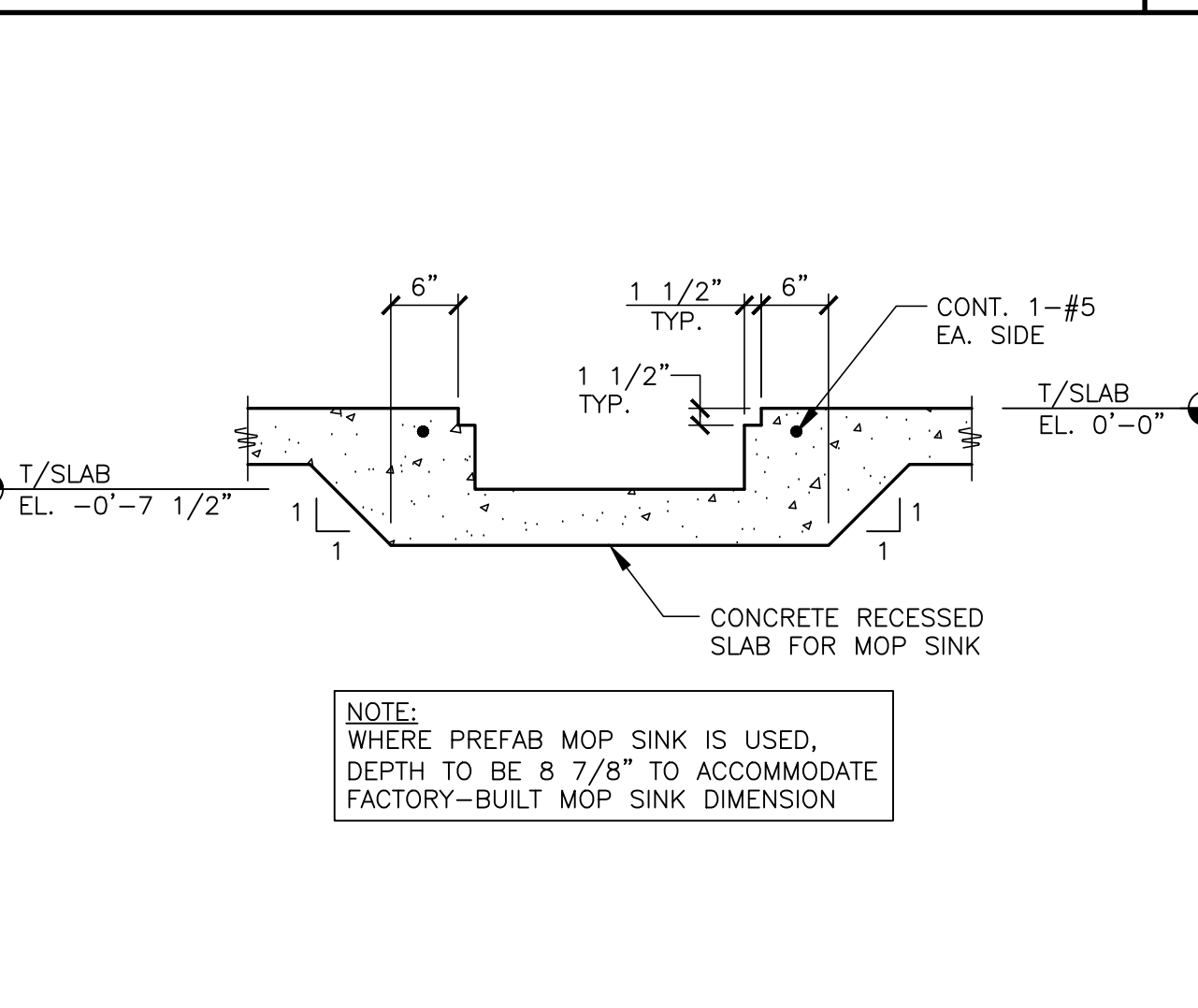
7 SECTION
S2.0 3/4" = 1'-0"



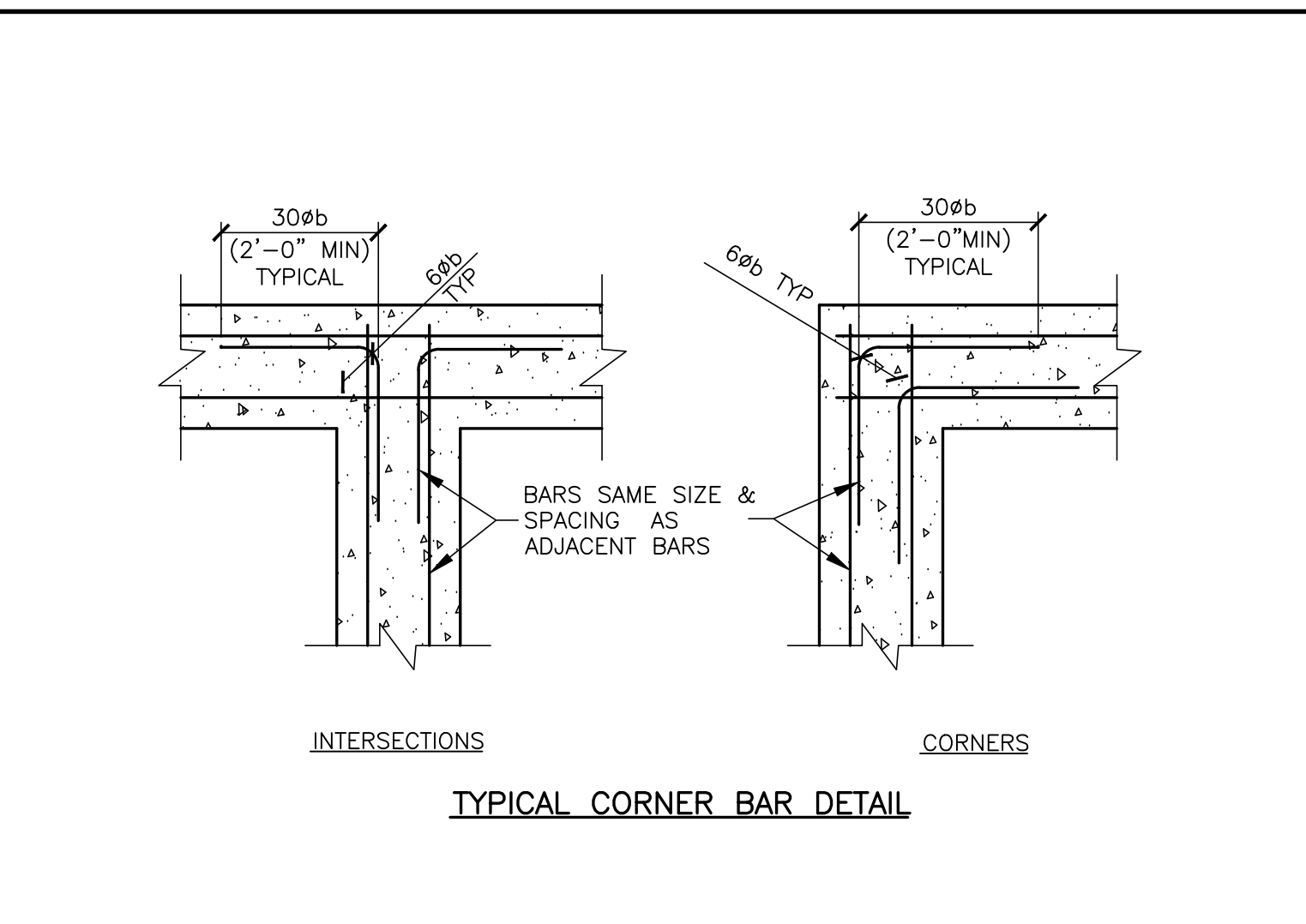
8 ISOLATED COLUMN FOOTING DETAIL
S2.0 3/4" = 1'-0"



9 SLAB ON GRADE DETAILS
S2.0 N.T.S.



10 RECESSED SLAB DETAIL
S2.0 3/4" = 1'-0"



11 CORNER BAR DETAILS
S2.0 N.T.S.

NO.	REV.	DATE	DESCRIPTION

STATE OF MISSISSIPPI
DAVID BALMA
NUMBER PE-2015003007
PROFESSIONAL ENGINEER
09/25/2023

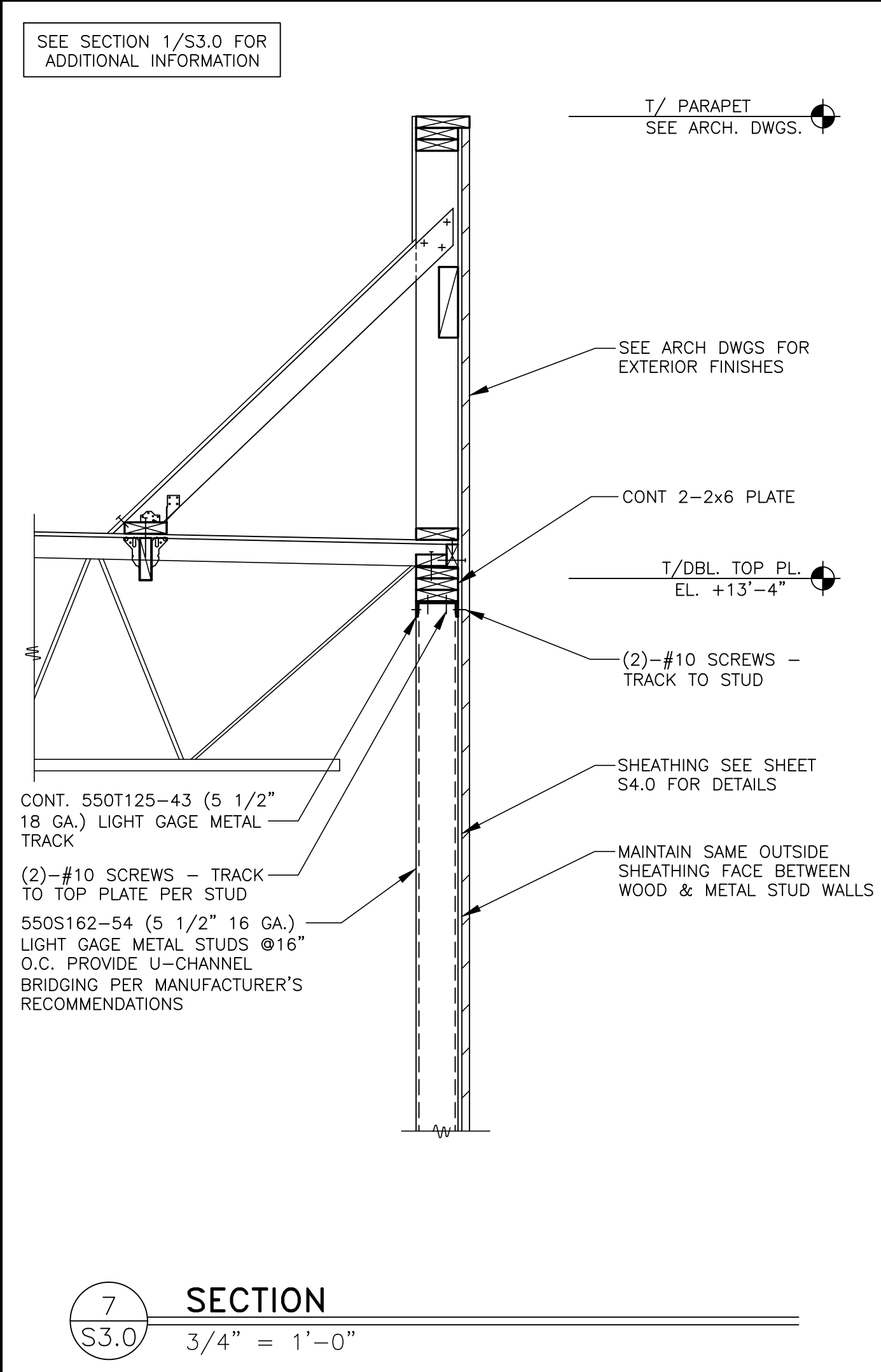
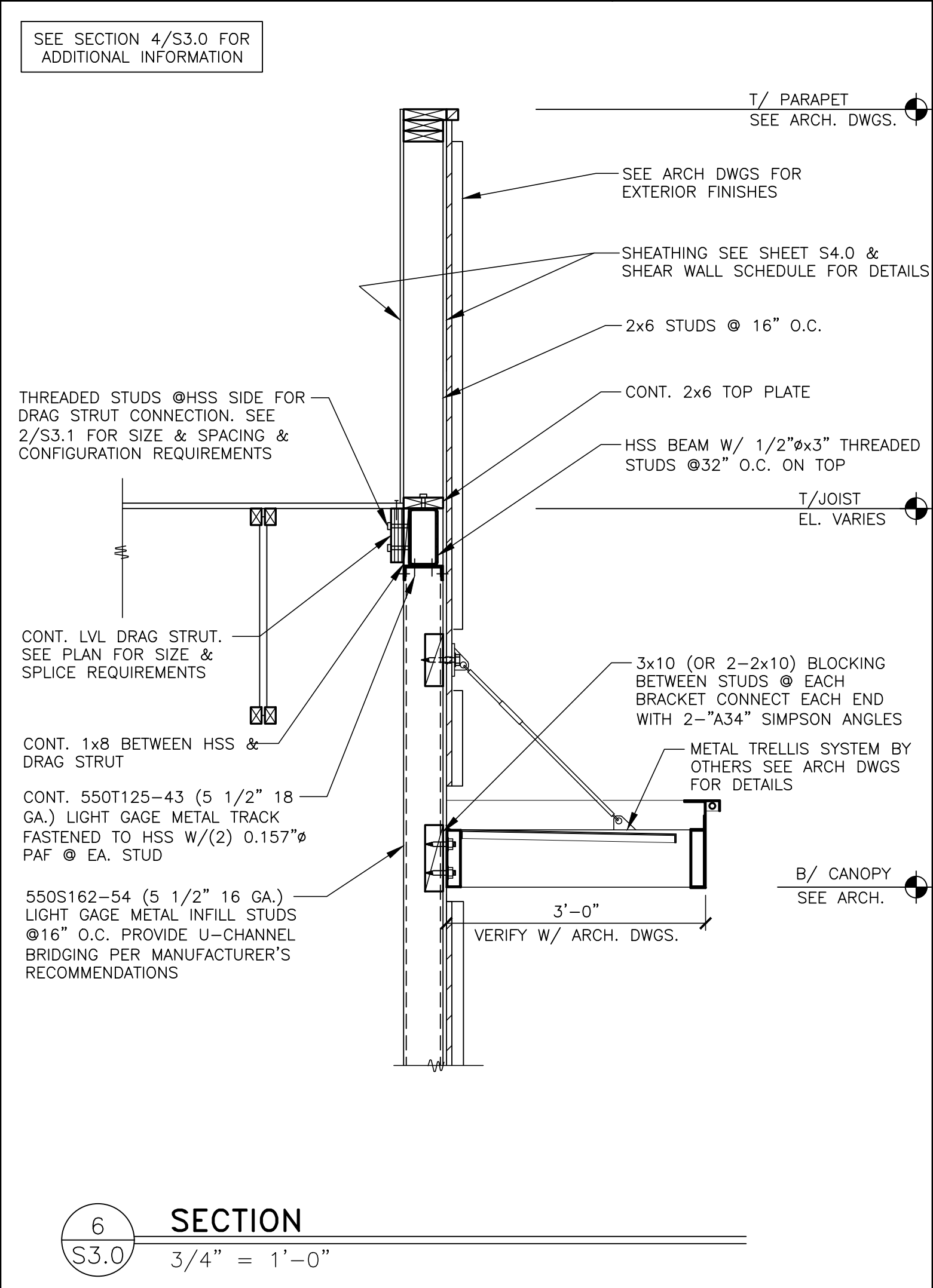
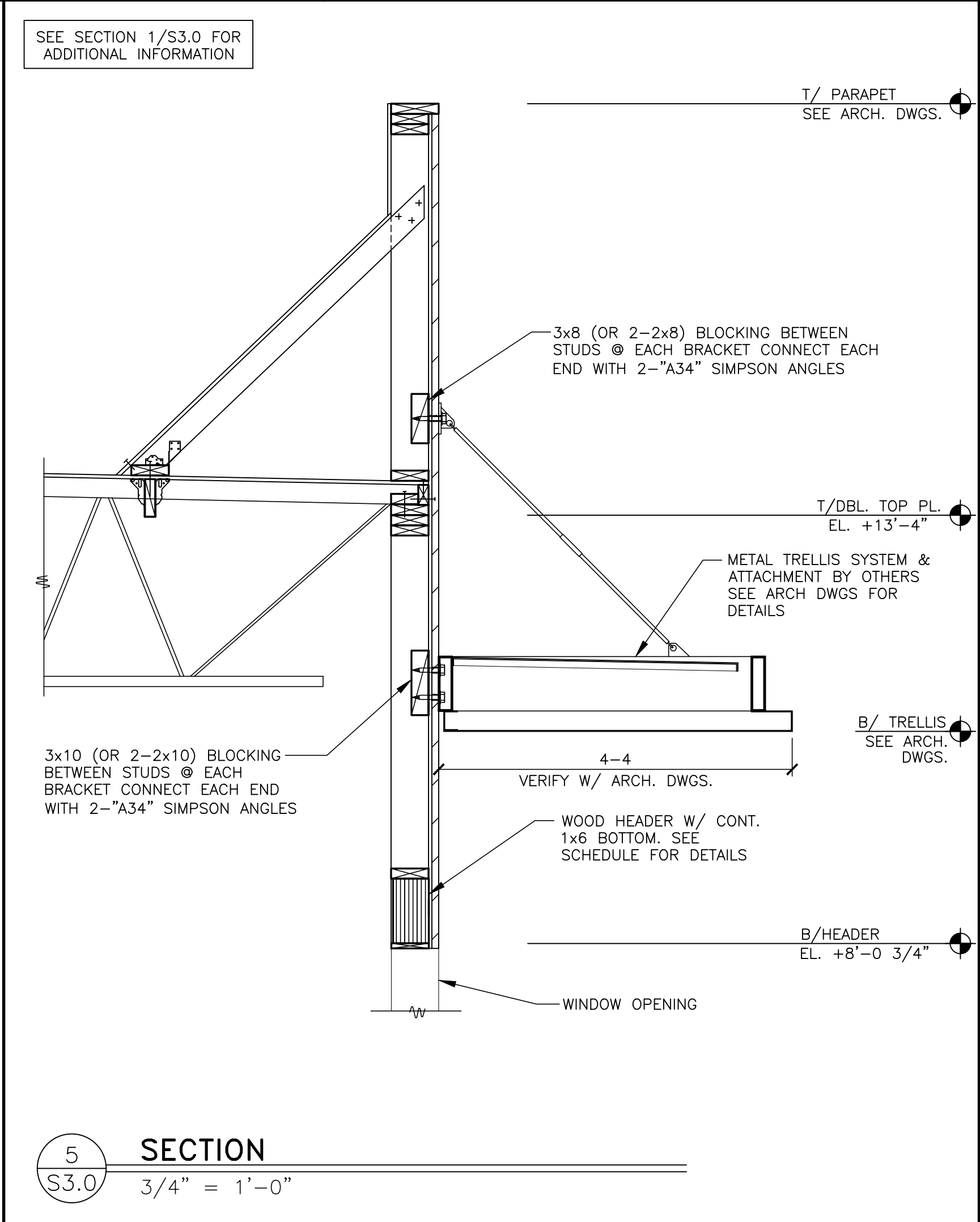
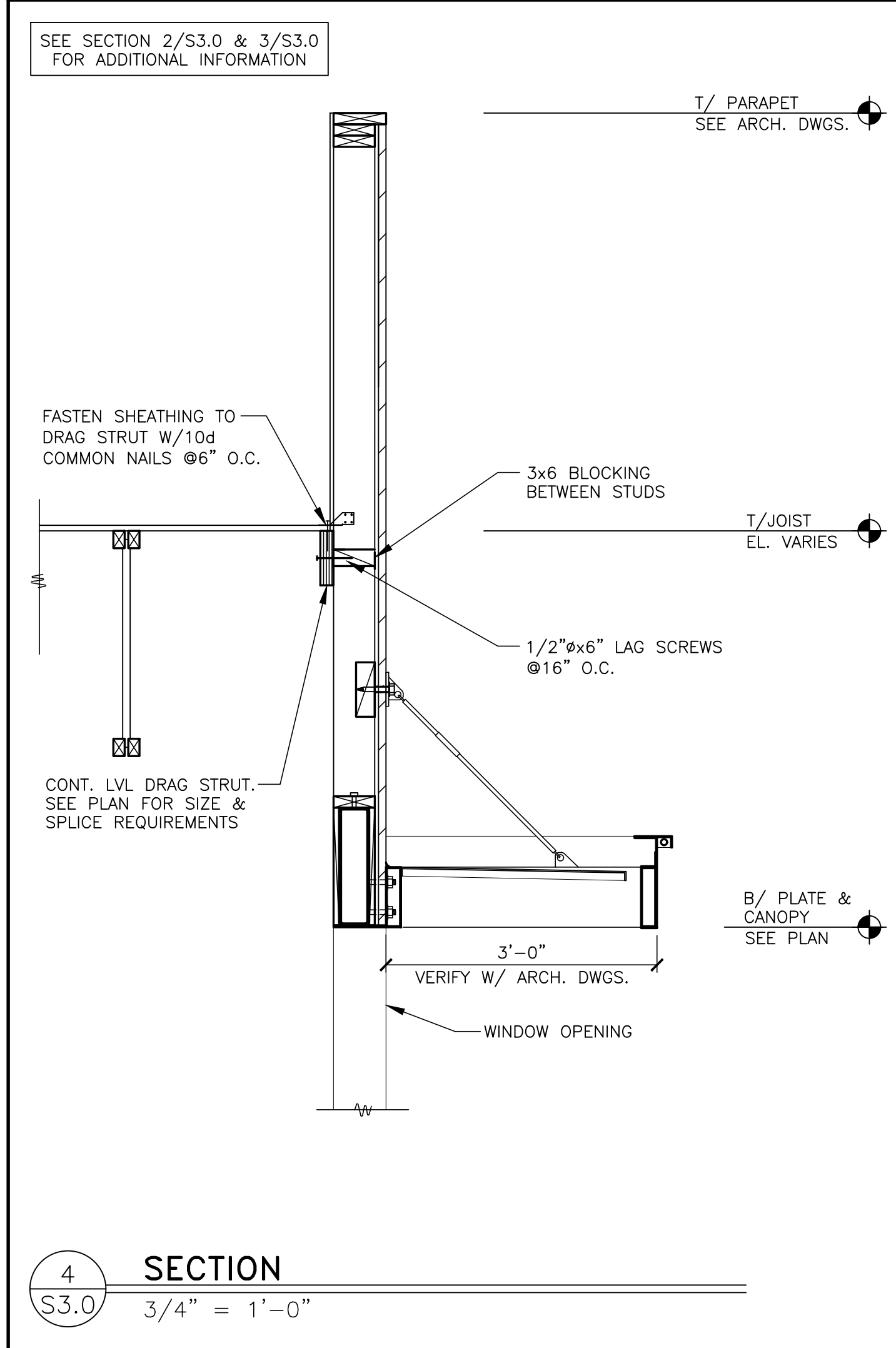
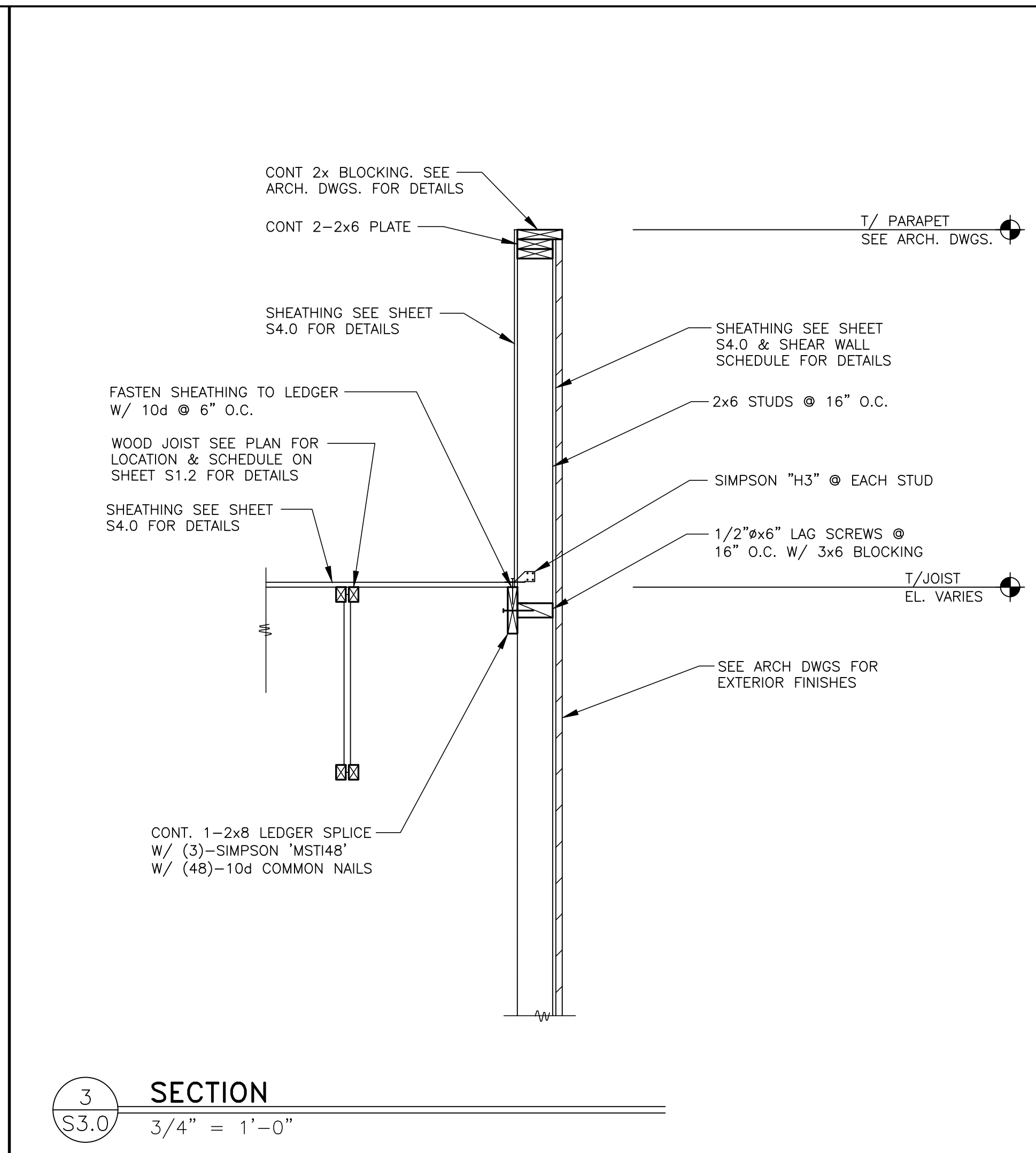
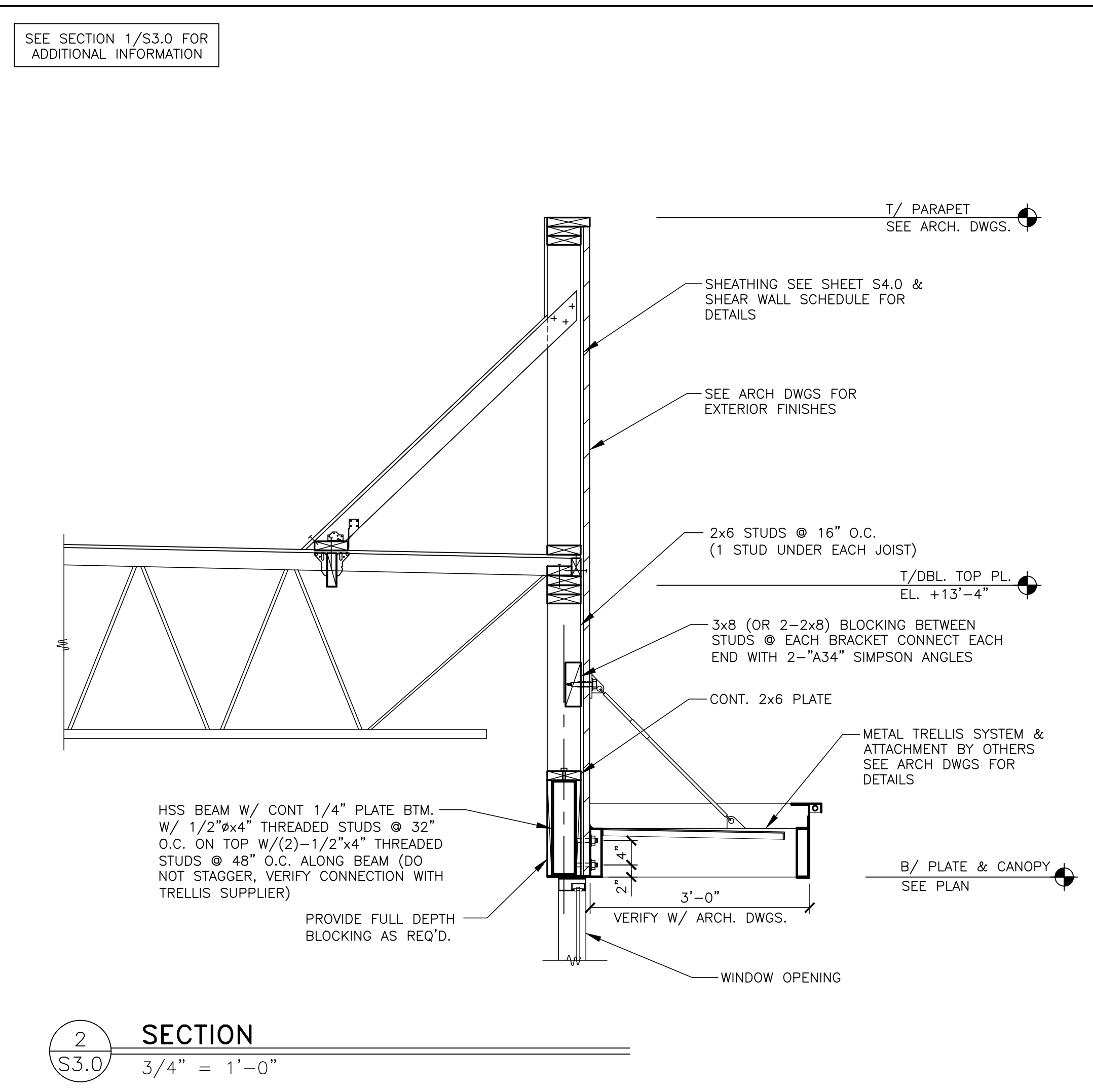
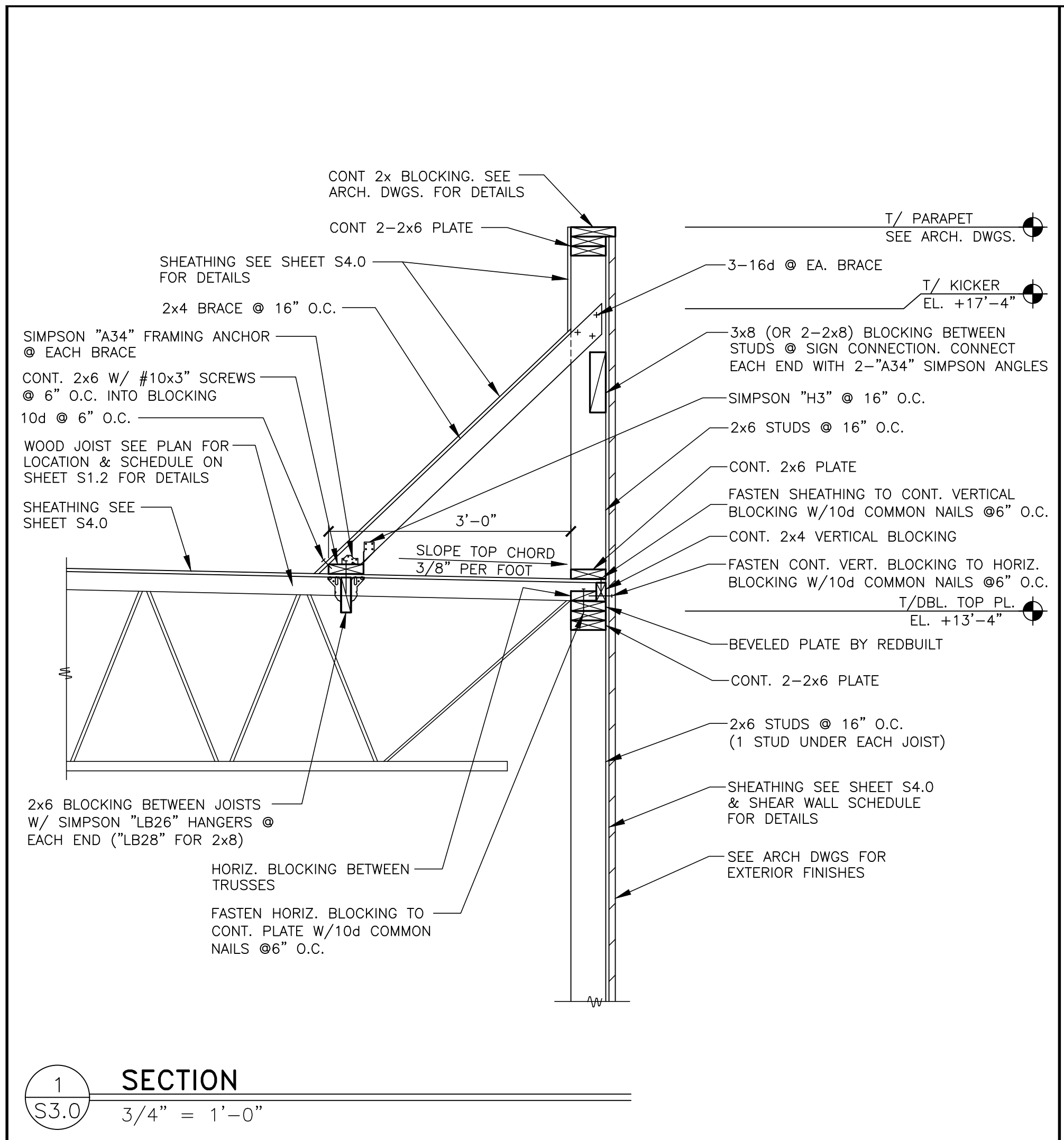
PREPARED BY: CORE STATES GROUP
2015 Sledge Avenue
Arling, IA 50002
www.corestates.com

PREPARED FOR: McDonald's USA, LLC
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2022 STANDARD BUILDING - BB20
45114 - WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS W/HARDBOARD SIDING
WOOD ROOF TRUSS FRAMING
EPS/BATTEN/ACM PANEL/HARDBOARD SIDING
SITE ID: 10-21-2022
C.S.G. PROJECT # TKA_36027.MCD
SALEM, MO
1000 S Main Street

TITLE: 2022 STANDARD BUILDING - BB20
45114 - WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS W/HARDBOARD SIDING
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SITE ID: 10-21-2022
C.S.G. PROJECT # TKA_36027.MCD
SALEM, MO
1000 S Main Street

24-1289.00.0
S2.0
FOUNDATION SECTIONS



NO.	DATE	REV	DESCRIPTION	BY
1				
2				
3				

DAVID BALMA
NUMBER PE-2015003007
PROFESSIONAL ENGINEER
8/25/2023

CORE STATES GROUP

2015 Squire Avenue
Arling, PA 19002
www.corestates.com

PREPARED BY: CORE STATES GROUP

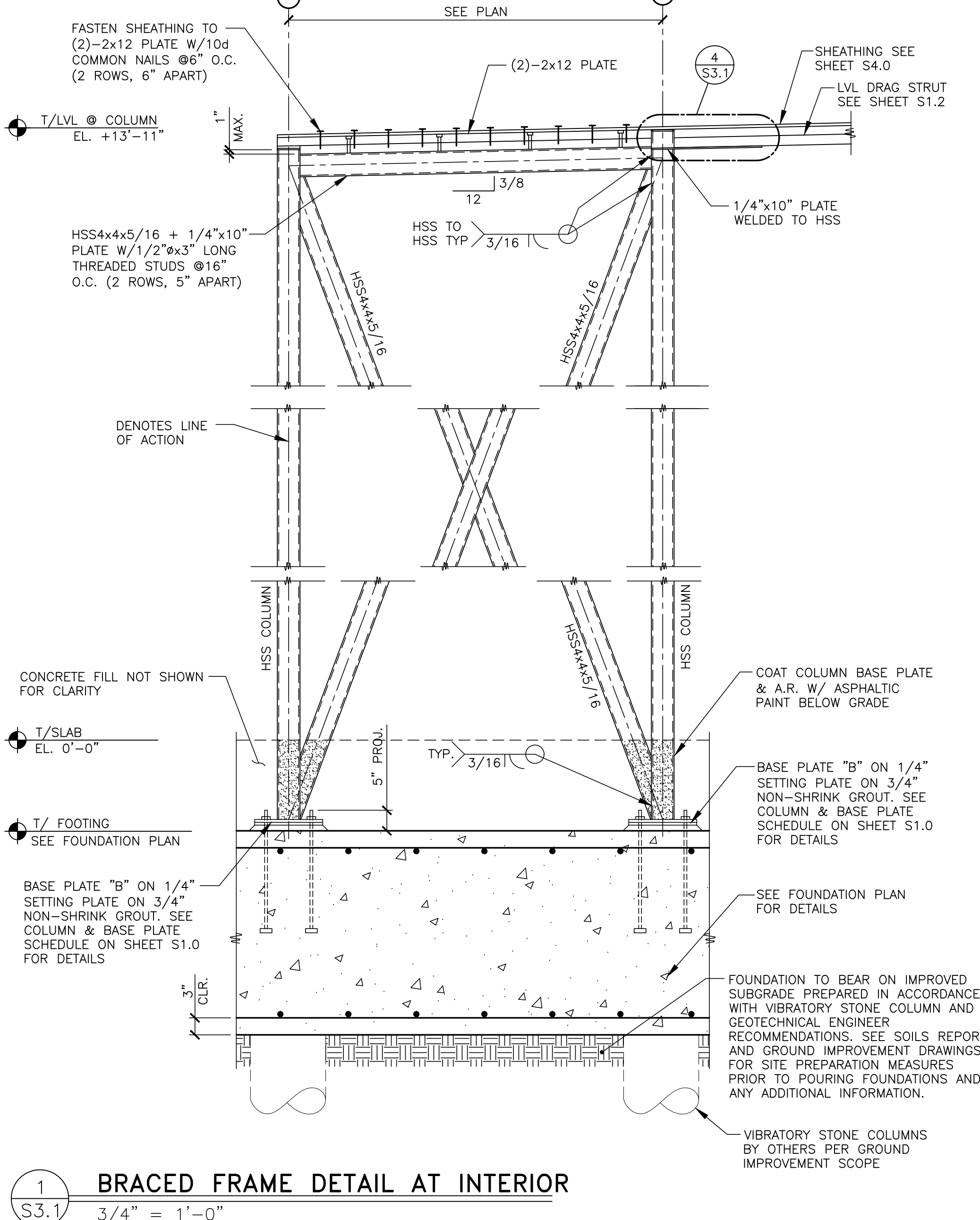
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DRAWN BY: J.CARRAS
STD ISSUE DATE: 2022_08
REVIEWED BY: J.PERRY
DATE ISSUED: 10-21-2022
C.S.G. PROJECT #: TKA_36027.MCD
SALEM, MO

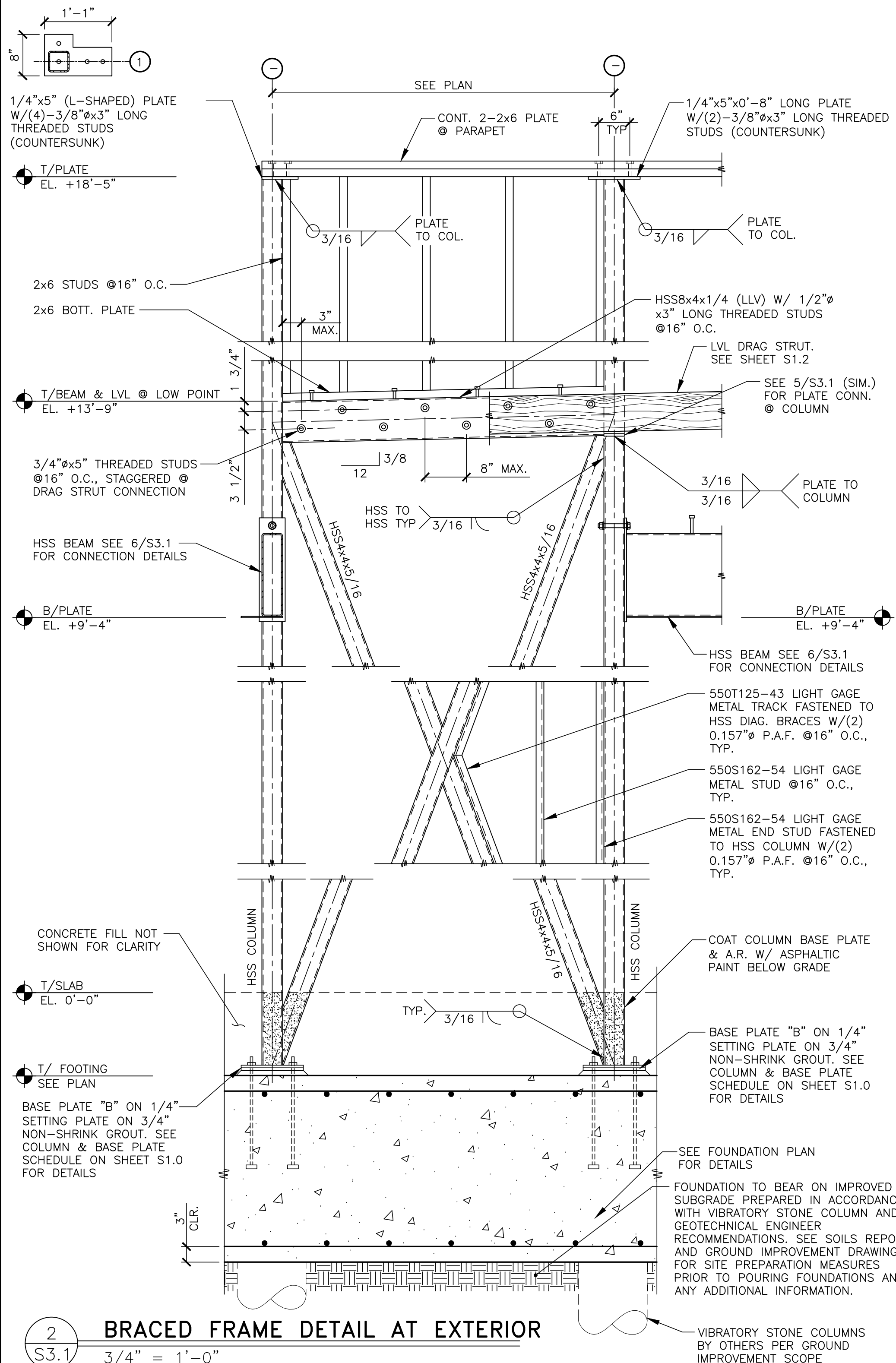
TITLE: 2022 STANDARD BUILDING - BB20
45114-WOOD/WOOD

DESCRIPTION: WOOD BEARING WALLS W/HARDBOARD SIDING
WOOD ROOF TRUSS FRAMING
EPS/BATTEN/ACM PANEL/HARDBOARD SIDING

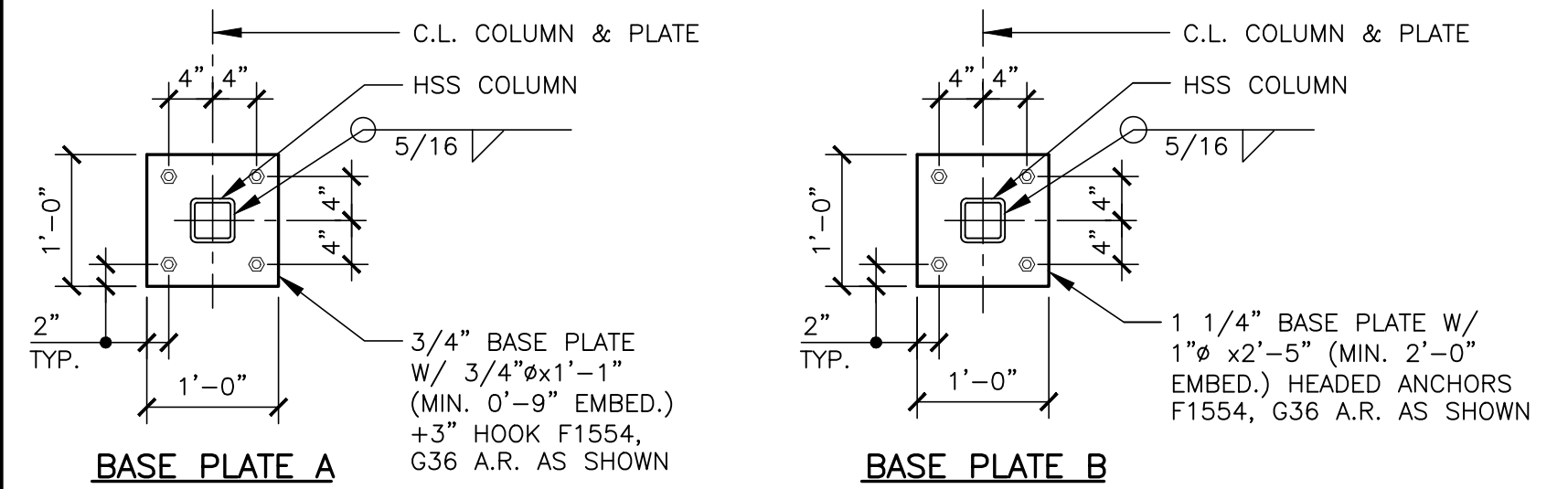
SHEET NO. 24-1289.00.0
S3.0
FRAMING SECTIONS



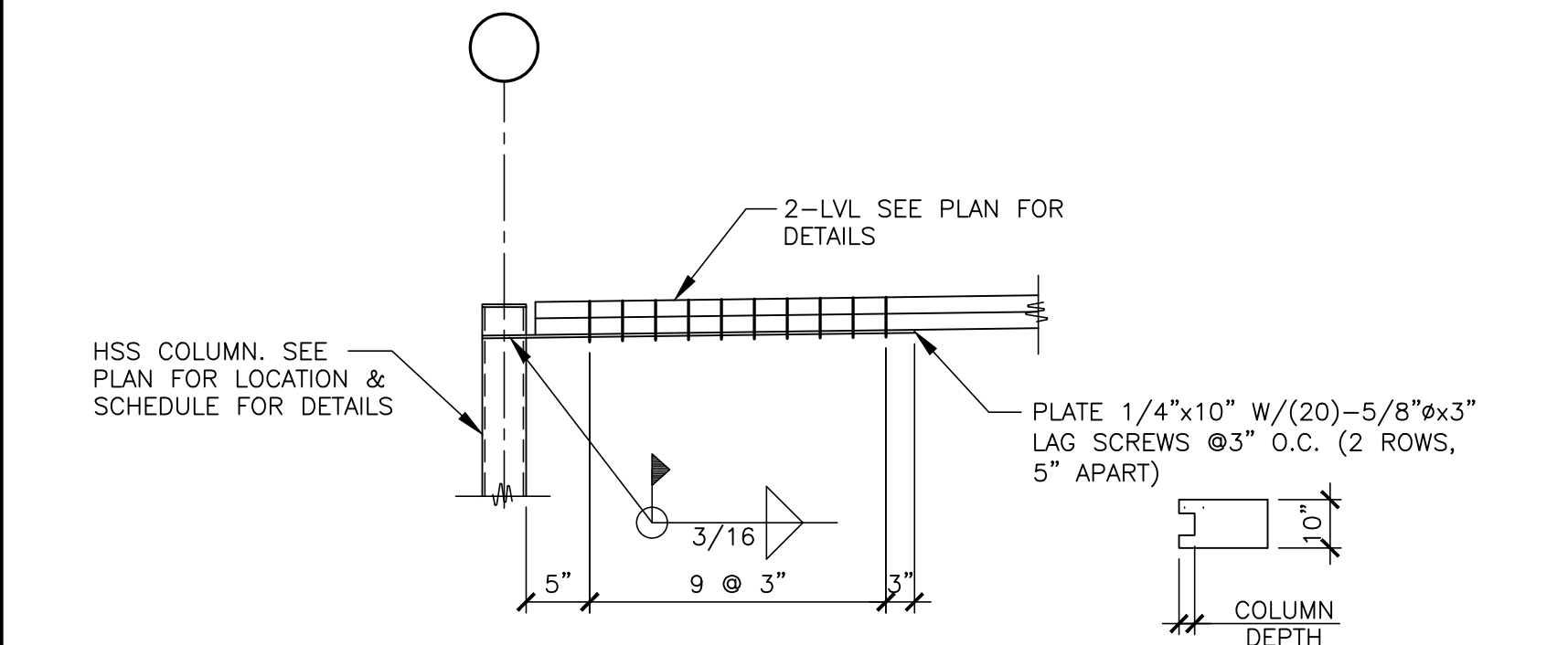
1 BRACED FRAME DETAIL AT INTERIOR
S3.1 3/4" = 1'-0"



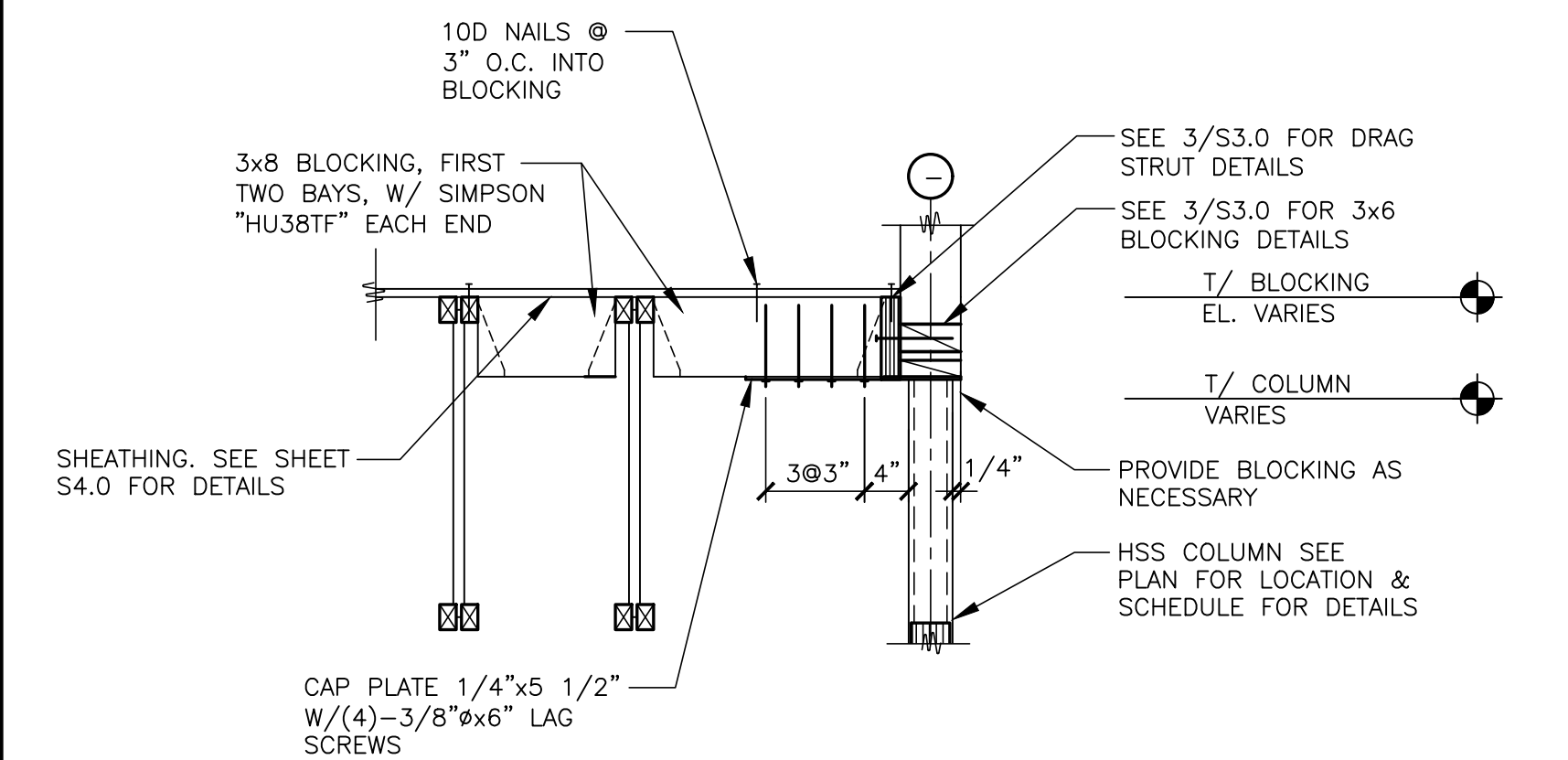
2 BRACED FRAME DETAIL AT EXTERIOR
S3.1 3/4" = 1'-0"



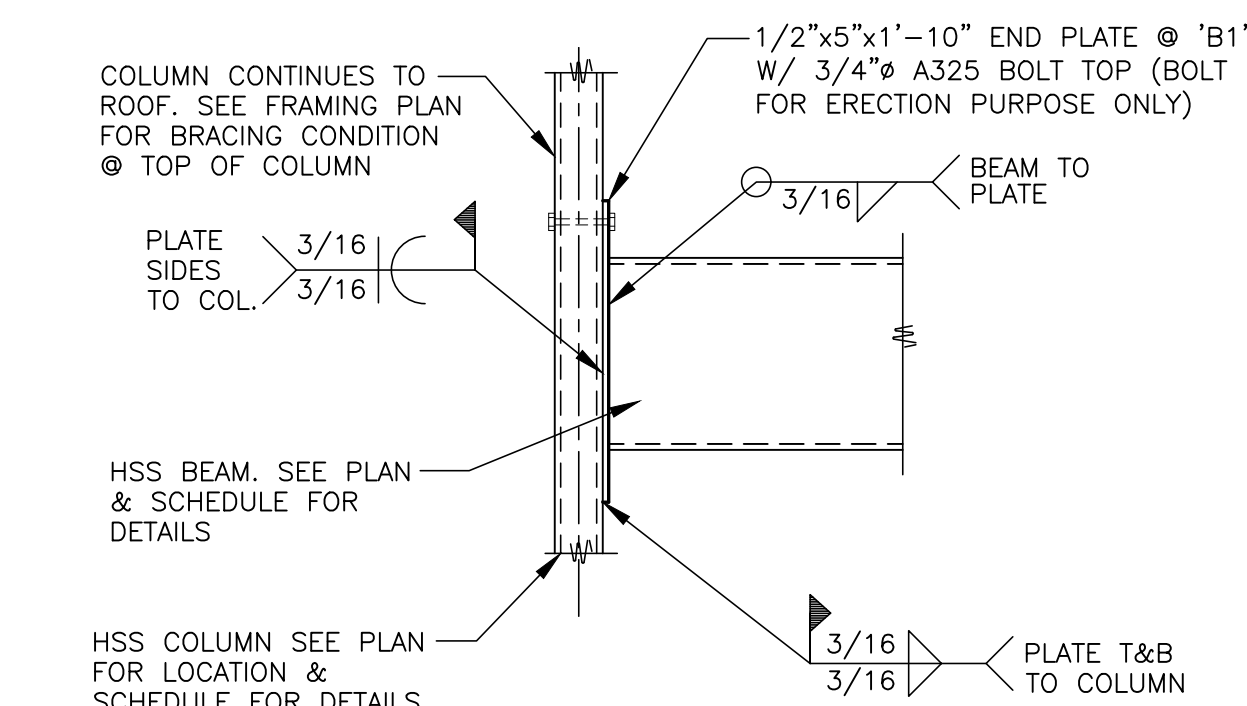
3 BASE PLATE DETAILS
S3.1 N.T.S.



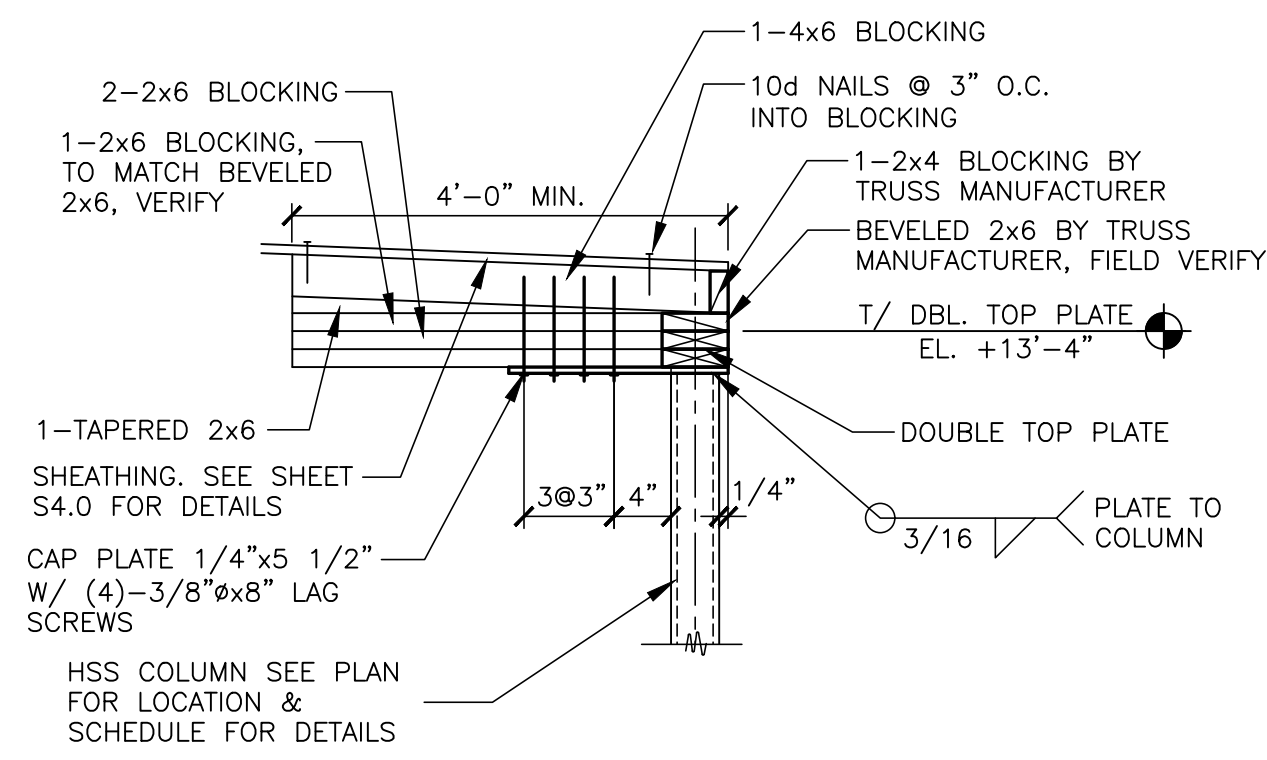
4 DRAG STRUT CONNECTION DETAIL
S3.1 3/4" = 1'-0"



5 COLUMN BRACING DETAIL
S3.1 3/4" = 1'-0"



6 HSS BEAM CONNECTION DETAIL
S3.1 3/4" = 1'-0"

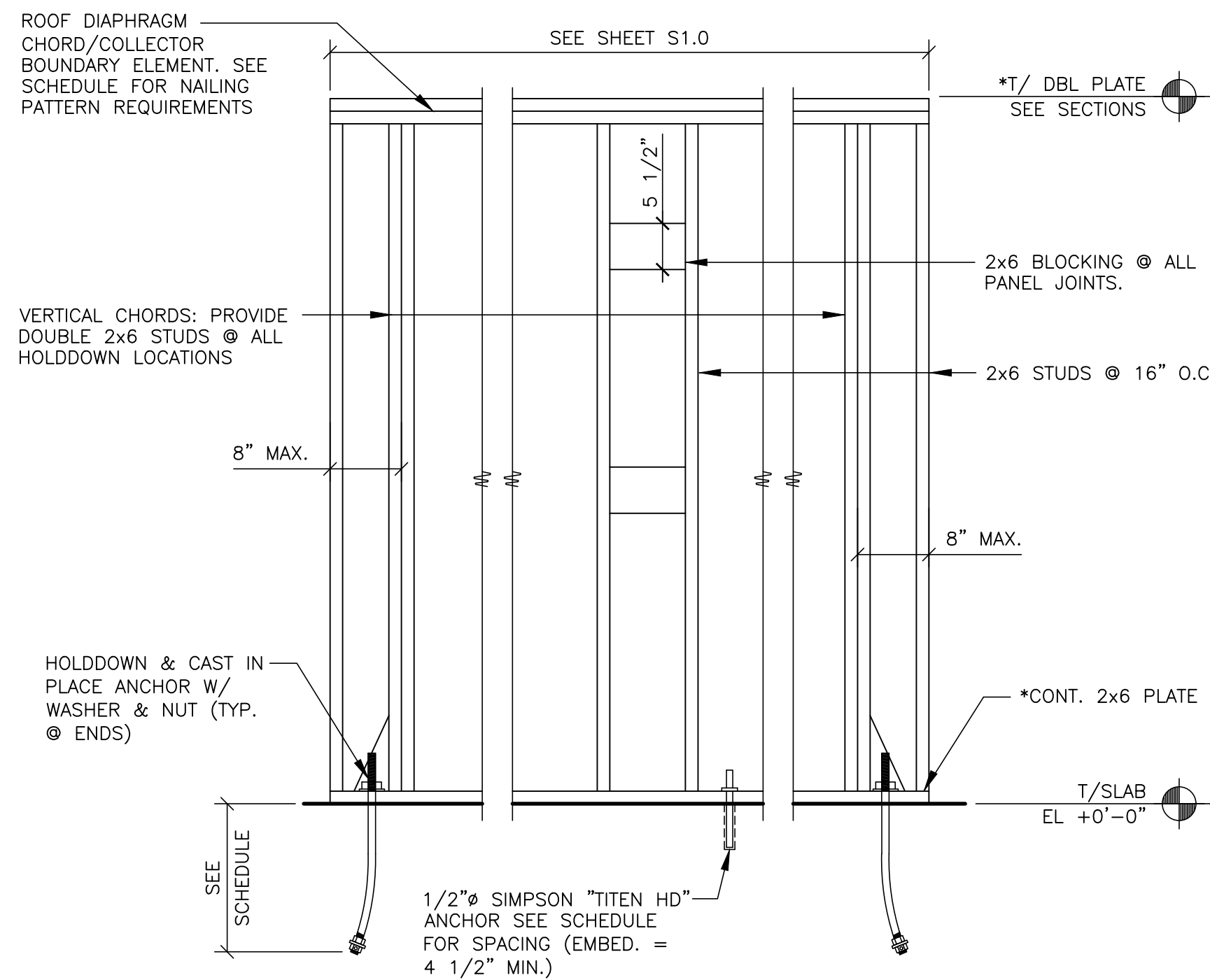


7 COLUMN BRACING DETAIL
S3.1 3/4" = 1'-0"

8 NOT USED
S3.1 3/4" = 1'-0"

9 NOT USED
S3.1 3/4" = 1'-0"

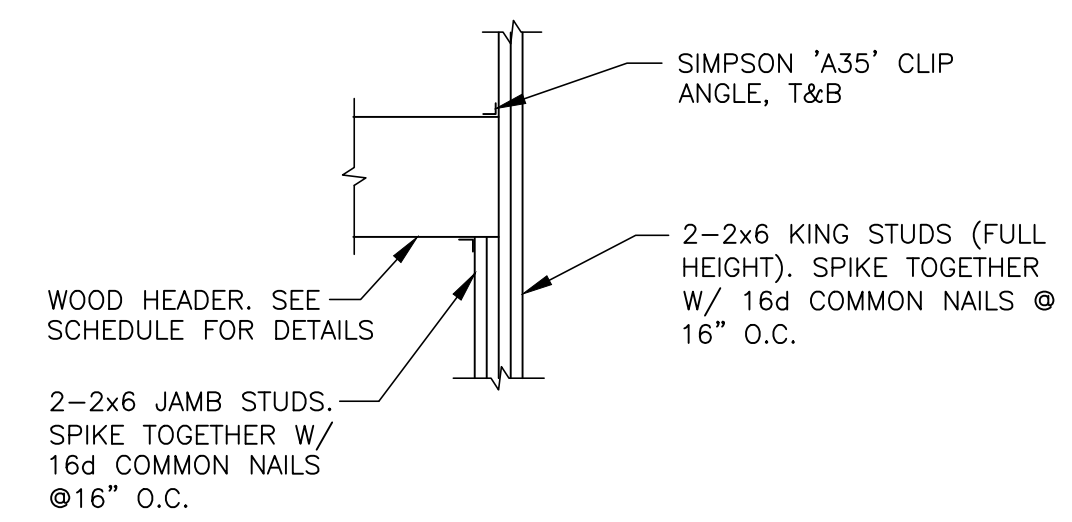
SHEET NO.	TITLE	DATE	BY
S3.1	2022 STANDARD BUILDING - BB20	2022-08	J. CARRAS
	DESCRIPTION		
	WOOD BEARING WALLS W/HARDBOARD SIDING		
	WOOD ROOF TRUSS FRAMING		
	EFS/BATTEN/DCM PANEL/HARDBOARD SIDING		
	SITE ADDRESS		
	1000 S Main Street		
	SALEM, MO		
	24-1289.00.0		
	45114-WOOD/WOOD		
	REVIEWED BY		
	J. PERRY		
	DATE ISSUED		
	10-21-2022		
	C.S.G. PROJECT #		
	TKA_36027.MCD		
	PREPARED BY		
	McDonald's USA, LLC		
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	DAVID BALMA		
	NUMBER		
	PE-2015003007		
	PROFESSIONAL ENGINEER		
	6/25/2023		
	CORE STATES GROUP		
	201 S. Maple Avenue		
	Abingdon, VA 22002		
	www.corestates.com		
	REV		
	DATE		
	DESCRIPTION		



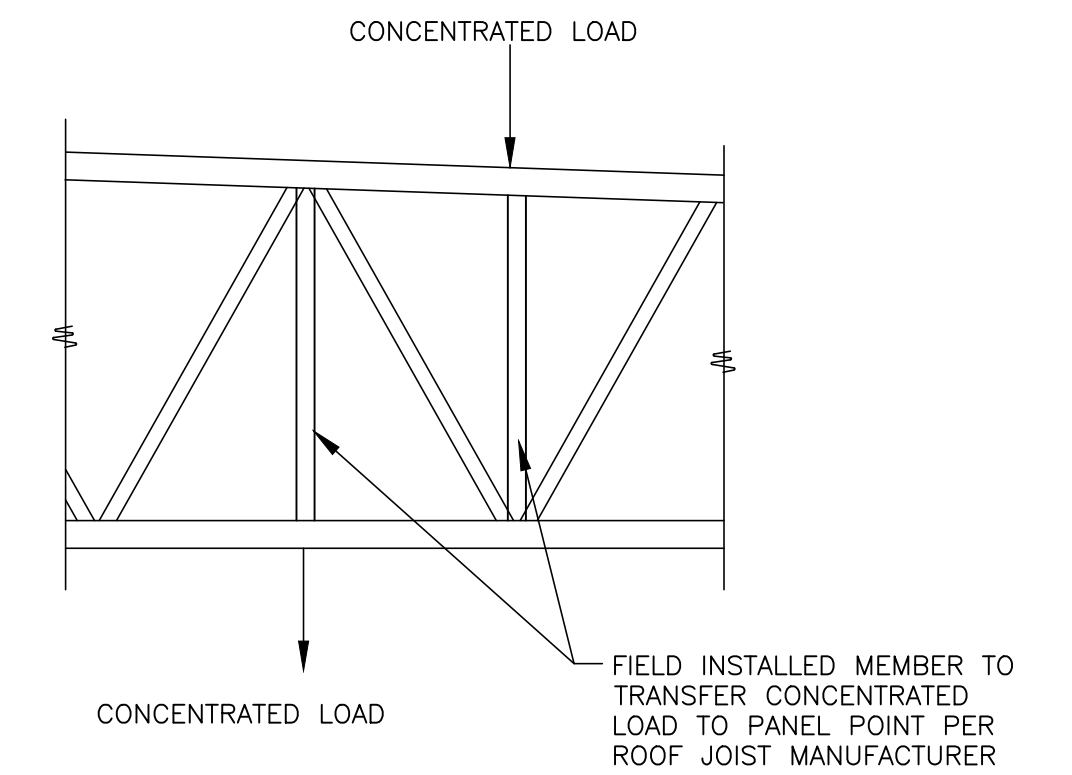
SHEAR WALL SCHEDULE						
WIND: 115 MPH (EXPOSURE B) SEISMIC: Sds = 29.5%, Sd1 = 17.5%						
MARK	SHEATHING	SHEATHING NAIL SIZE	SHEATHING NAIL** SPACING @ PANEL EDGES	HOLDDOWN*** ANCHORS	ANCHOR BOLT SPACING	REMARKS
A	1-15/32"	8d	6"	1-HDU5-SDS2.5 W/(1) SB5/8x24" PRECAST ANCHOR	40"	18" MIN. EMBED. ON HOLDDOWN ANCHORS.
B	1-15/32"	8d	6"	1-HDU5-SDS2.5 W/(1) SB5/8x24" PRECAST ANCHOR	40"	18" MIN. EMBED. ON HOLDDOWN ANCHORS.
C	1-15/32"	8d	6"	1-HDU5-SDS2.5 W/(1) SB5/8x24" PRECAST ANCHOR	40"	18" MIN. EMBED. ON HOLDDOWN ANCHORS.

- NOTES:
- SHEATHING PANELS MAY BE LAID UP HORIZONTALLY OR VERTICALLY. NO VERTICAL PANEL EDGES ON VERTICAL CHORDS (HOLDDOWN LOCATION).
 - WIND LOADS GOVERN OVER SEISMIC LOADS UNLESS AS NOTED IN THE REMARKS COLUMN.
 - NAIL ALL SHEATHING TO INTERMEDIATE SUPPORTS @ 12" O.C.
 - SCREW HOLDDOWN ANCHORS TO VERTICAL MEMBER W/ 14-SDS1/4"x2 1/2" SCREWS EACH.
 - IF SILL PLATE OR TOP PLATES ARE NOT CONTINUOUS, CONTACT THE ENGINEER OF RECORD FOR SOLUTION.
 - NAIL WALL SHEATHING TO ROOF DIAPHRAGM CHORD & TO EACH MEMBER/WALL VERTICAL CHORD W/ 10d COMMON NAILS @ 6" O.C., UNO.
 - HOLDDOWNS AND HOLD DOWN ANCHOR SYSTEMS PER SIMPSON STRONG TIE & SHALL BE INSTALLED PER MANUFACTURER SPECIFICATIONS.

1 SHEAR WALL SCHEDULE
S3.2 N.T.S.



2 HEADER SUPPORT DETAIL
S3.2 N.T.S.

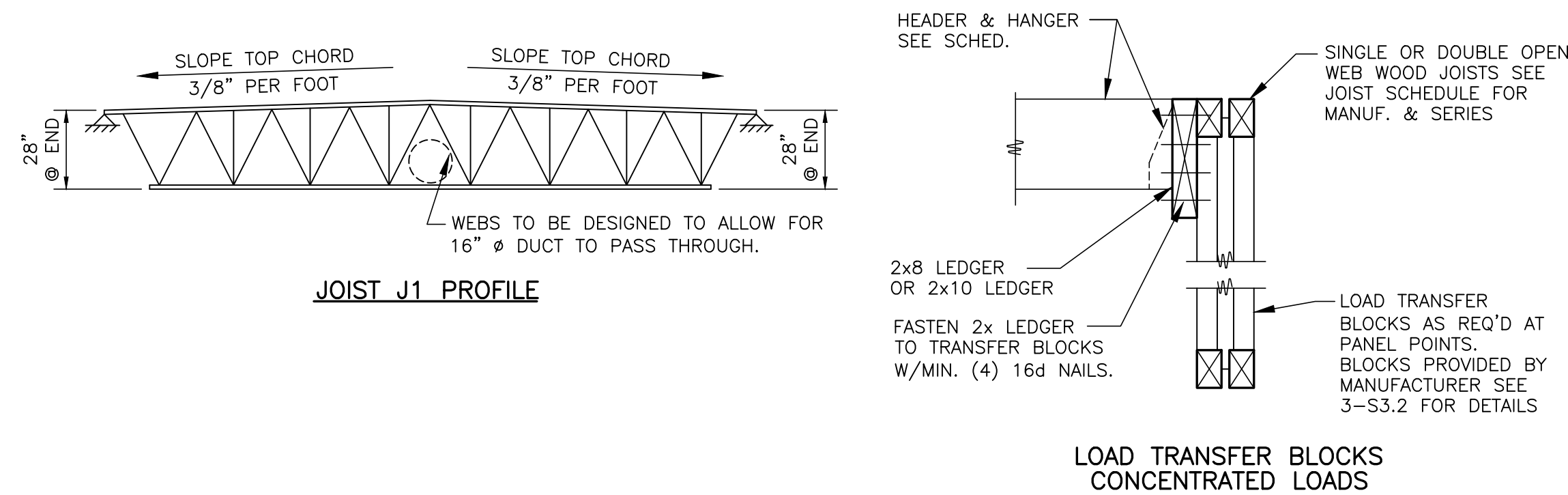


3 JOIST DETAIL @ POINT LOADS
S3.2 N.T.S.

- FOR NATIONAL ACCOUNT PACKAGE & PRICING CONTACT REDBUILT @ 1-866-859-6757
- JOIST MFR. TO VERIFY SIZE AT HVAC ROOF TOP UNITS.

HEADER	HANGER
2x8	LUS26
2-2x6	LUS26-2
2x8	LUS28
2-2x8	LUS28-2
2x10	LUS210
2-2x10	LUS210-2

- FOR OPENINGS < 1'-4" USE 1-2x6
FOR OPENINGS > 1'-4" AND < 4'-0" USE 2-2x8
FOR OPENINGS > 4'-0" AND < 6'-0" USE 2-2x10
3. ALL JOISTS SHALL BE DESIGNED FOR THE FOLLOWING NET UPLIFT.
115 MPH ULTIMATE - 5 PSF SERVICE (ASD: 0.6D + 0.6W)

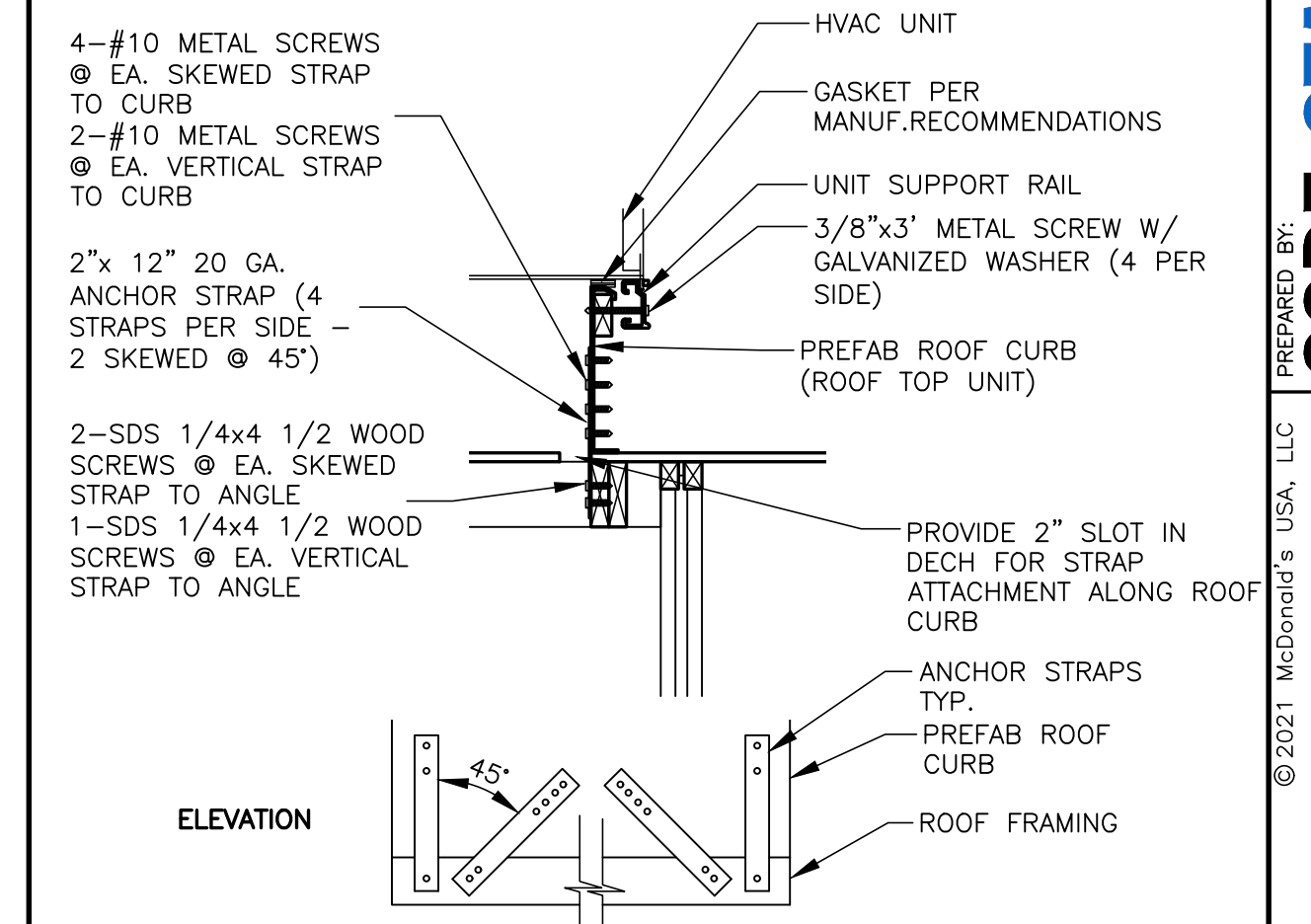


4 JOIST NOTES
S3.2 N.T.S.

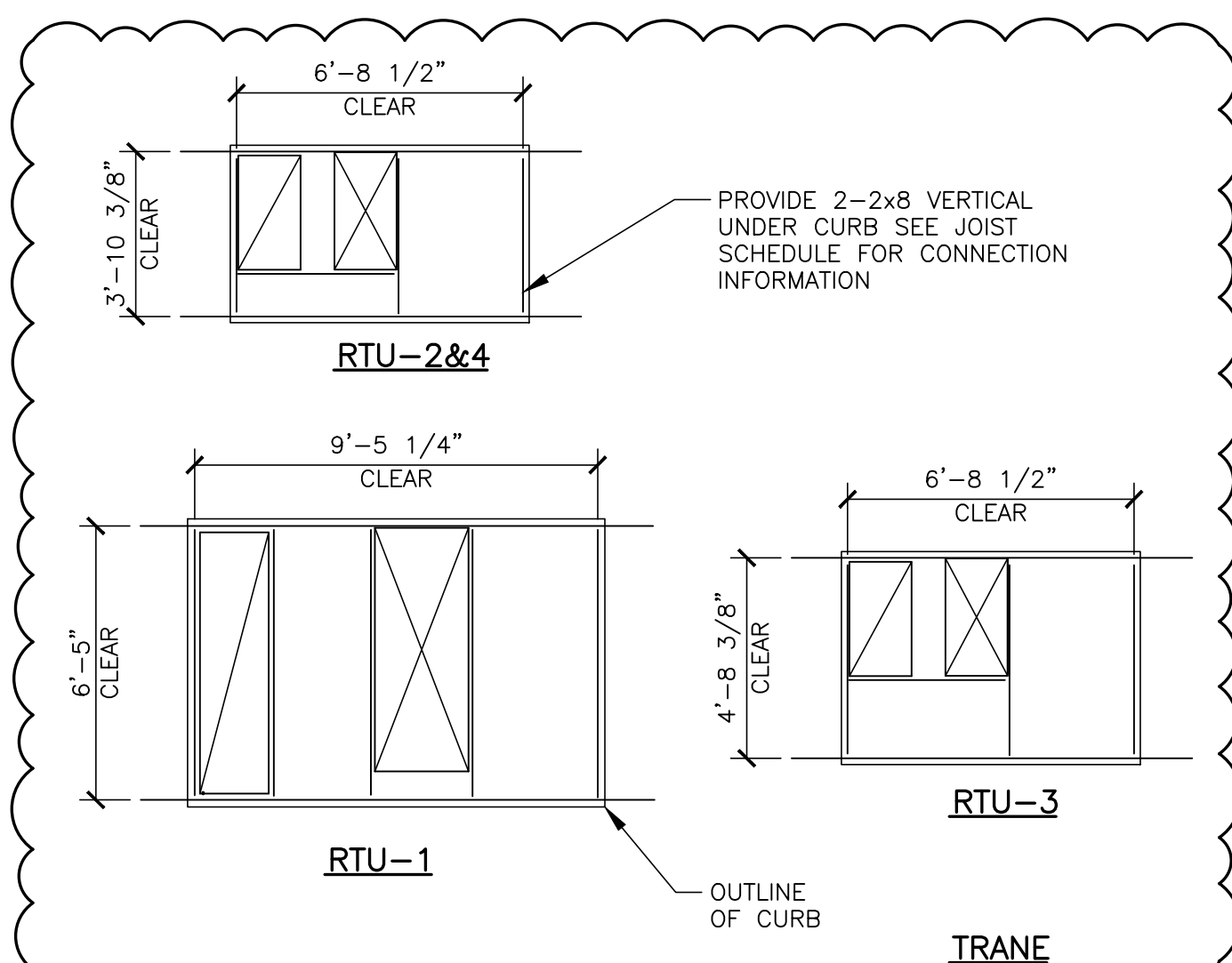
DRIFT	SNOW DRIFT LOAD (PSF)	WIDTH (FT)
SHORT DIRECTION	26.0	6'-2"
LONG DIRECTION	42.0	10'-1"

NOTE: SNOW DRIFT LOADS BASED ON NOMINAL, UNFACTORED GROUND SNOW LOADS. SEE SHEET S4.0 FOR ADDITIONAL INFORMATION.

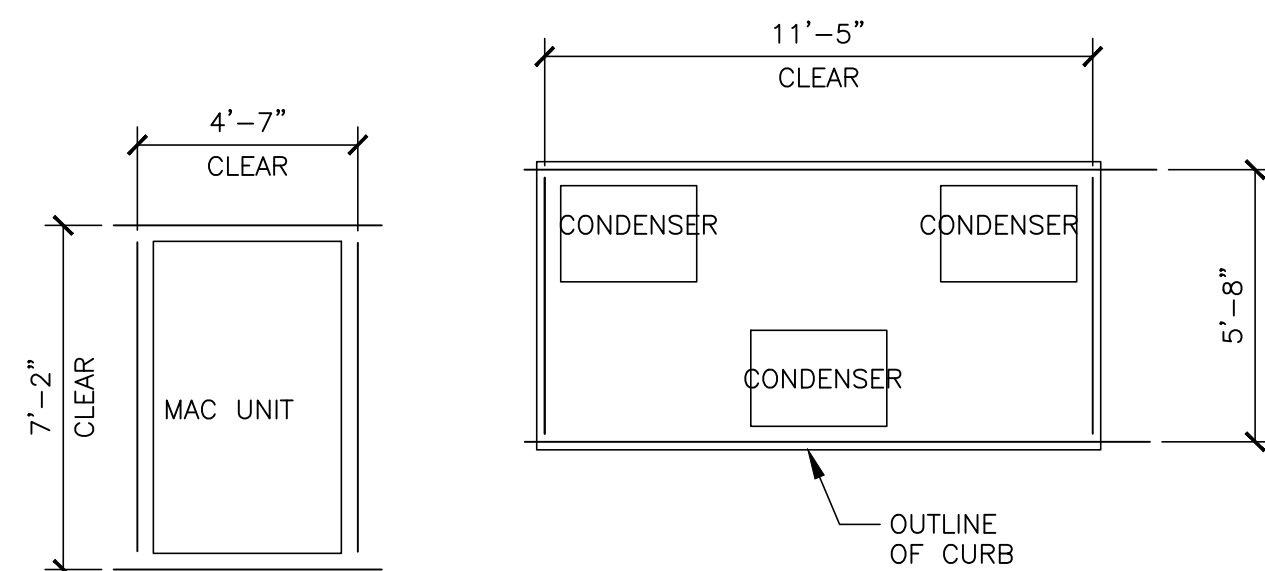
5 SNOW DRIFT DIAGRAM/SCHEDULE
S3.2 N.T.S.



6 SECTION
S3.2 3/4" = 1'-0"



7 ROOF TOP UNIT CLEARANCES
S3.2 1/4" = 1'-0"



8 NOT USED
S3.2 N.T.S.

9 NOT USED
S3.2 N.T.S.

REV	DATE	DESCRIPTION
A	8/25/2023	ESE UPDATE

DAVID BALMA
NUMBER PE-2015003007
PROFESSIONAL ENGINEER
STATE OF MISSOURI
2015, 2018, 2021
2015, 2018, 2021
Arkansas, PA, 1002
www.corestates.com

PREPARED BY: CORE STATES GROUP

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McDonald's USA, LLC
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TITLE	2022 STANDARD BUILDING - BB20	SALEM, MO
DESCRIPTION	45114-WOOD/WOOD	
WOOD BEARING WALLS W/HARDBOARD SIDING		
WOOD ROOF TRUSS FRAMING		
EFS/BATTEN/ACM PANEL/HARDBOARD SIDING		
SITE ID	024-1289	
SITE ADDRESS	1000 S Main Street	
C.S.G. PROJECT #	TKA_36027.MCD	
DRAWN BY	J.CARRAS	
STD ISSUE DATE	2022_08	
REVIEWED BY	J.PERRY	
DATE ISSUED	10-21-2022	

24-1289.00.0
S3.2
DETAILS

STRUCTURAL GENERAL NOTES:

DESIGN AND LOADING

- 1. THE STRUCTURAL DESIGN OF THIS BUILDING WAS BASED ON THE DESIGN CRITERIA:
A. BUILDING CODE: 2012 INTERNATIONAL BUILDING CODE
B. FLOOR: LIVE LOAD: 100 PSF
C. ROOF: LIVE LOAD: 20 PSF, DEAD LOAD: 20 PSF
D. SNOW: GROUND LOAD: 20 PSF, FLAT ROOF LOAD: 20 PSF, SNOW EXPOSURE FACTOR, CE: 1.0, IMPORTANCE FACTOR, I: 1.0, THERMAL COEFFICIENT, CT: 1.0
E. WIND: ULTIMATE WIND SPEED: 115 MPH (3-SECOND GUST), RISK CATEGORY: II, WIND EXPOSURE: B, PRESSURES PER ASCE 7-10
F. SEISMIC: RISK CATEGORY: II, IMPORTANCE FACTOR: 1.00, SITE CLASS: C, SS = 0.369, S1 = 0.160, SDS = 0.295, SD1 = 0.175, DESIGN CATEGORY: C, PLYWOOD SHEAR WALLS (R = 6.5), STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE (R = 3.0), Cst1: 0.045 (LONGITUDINAL DIRECTION), Cst2: 0.098 (TRANSVERSE DIRECTION), DESIGN BASE SHEAR = SEE CALCULATIONS, ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
G. FLOOD LOAD: N/A
H. SPECIAL LOADS: N/A

FOUNDATION NOTES

- 1. THE FOUNDATION DESIGN OF THIS BUILDING WAS BASED ON THE FOLLOWING CRITERIA:
A. GROUND IMPROVEMENT REQUIRED PER VIBRATORY STONE COLUMN ENGINEER. FOUNDATION DESIGN SUBJECT TO CHANGE PENDING REVIEW OF GROUND IMPROVEMENT CONSTRUCTION DOCUMENTS. ENGINEER OF RECORD SHALL REVIEW AND APPROVE GROUND IMPROVEMENT DRAWINGS PRIOR TO CONSTRUCTION.
B. ALLOWABLE SOIL BEARING CAPACITY = PENDING GROUND IMPROVEMENT ENGINEER C. RECOMMENDED BY PROFESSIONAL SERVICE INDUSTRIES, INC. IN THEIR REPORT #0040448-1 DATED OCTOBER 12, 2022.
D. ANY FILL REQUIRED BELOW SLABS ON GRADE OR FOOTINGS SHALL BE COMPACTED AS REQUIRED BY THE SOILS REPORT NOTED IN ITEM #2.
2. ALL EXTERIOR FOOTINGS SHALL EXTEND BELOW THE MAXIMUM ANTICIPATED DEPTH OF FROST.
3. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OR ENGINEER OF RECORD IMMEDIATELY IN THE EVENT THAT THE SOILS CONDITIONS ENCOUNTERED VARY FROM THOSE SHOWN ON THE BORING LOGS.
4. ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED BY A SOILS TESTING LABORATORY PRIOR TO PLACEMENT OF CONCRETE.

CONCRETE AND REINFORCING

- 1. ALL CONCRETE SHALL BE IN ACCORDANCE WITH THE "AMERICAN CONCRETE INSTITUTE BUILDING CODE" (ACI 318) AND WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301) LATEST EDITIONS.
2. ALL NORMAL WEIGHT CONCRETE (145 PCF) SHALL OBTAIN A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI (3500 PSI FOR SLABS).
3. ALL CONCRETE SUBJECT TO EXTERIOR EXPOSURE SHALL BE AIR ENTRAINED AS RECOMMENDED BY ACI 318.
4. TEST CYLINDERS SHALL BE MADE AND TESTED AS OUTLINED IN CHAPTER 16 OF ACI-301.
5. REINFORCING BARS SHALL BE DEFORMED BARS OF NEW BILLET STEEL CONFORMING TO ASTM A-615, GRADE 60, WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. ALL REINFORCING AND ACCESSORIES SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI STANDARD 315 AND 315R.
6. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT AT POSITIONS SHOWN ON THE PLANS AND DETAILS. PLASTIC COATED ACCESSORIES SHALL BE USED IN ALL EXPOSED CONCRETE WORK.
7. THE GENERAL CONTRACTOR SHALL CHECK WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND THE SUB-CONTRACTORS FOR OPENINGS, SLEEVES, ANCHORS, HANGERS, INSERTS, SLAB DEPRESSIONS AND OTHER ITEMS RELATED TO THE CONCRETE WORK AND SHALL ASSUME RESPONSIBILITY FOR THEIR PROPER LOCATION.

STRUCTURAL STEEL

- 1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN CONFORMANCE WITH THE AISC360 "SPECIFICATION FOR STRUCTURAL STEEL". SEISMIC DESIGN OF STRUCTURAL STEEL STRUCTURES SHALL CONFORM TO AISC 341.
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
A. ANCHOR RODS F1554, GRADE 36
B. HIGH STRENGTH STRUCTURAL BOLTS A325-N U.N.O.
C. STRUCTURAL SHAPES (W) A992
D. STRUCTURAL SHAPES (M, S, C, MC, PLATES) A36
E. STRUCTURAL SHAPES (HP) A572
F. STRUCTURAL TUBING (HSS) A500 GRADE B
G. STRUCTURAL ANGLES A36
3. ALL WELDING ELECTRODES SHALL BE E70-XX. ALL SHOP AND FIELD WELDING SHALL BE MADE IN ACCORDANCE WITH A.W.S. D1.1 "CODE FOR WELDING IN BUILDING CONSTRUCTION" AND SHALL BE MADE BY CERTIFIED WELDERS.

LAMINATED VENEER LUMBER (LVL)

- 1. ALL BEAMS SHALL BE MANUFACTURED WITH LAMINATED VENEER LUMBER AND WATERPROOF ADHESIVES.
2. SIZE, MANUFACTURER & SERIES OF ALL LVL MEMBERS SHALL BE AS SHOWN ON DRAWINGS.
3. ANY SUBSTITUTIONS MUST BE APPROVED IN WRITING BY ENGINEER OR ARCHITECT OF RECORD.
4. PROVIDE 3" MINIMUM BEARING OR AS SPECIFIED ON PLANS. REFER TO PLANS FOR FASTENING OF MULTIPLE PIECE BEAMS.

OPEN WEB WOOD JOISTS

- 1. OPEN WEB WOOD JOISTS SHALL BE MANUFACTURED WITH MACHINE STRESS RATED TOP AND BOTTOM CHORDS. WEBS SHALL BE TUBULAR STEEL MEMBERS PER MANUFACTURERS' SPECIFICATIONS.
2. SIZE, MANUFACTURER & SERIES OF ALL OPEN WEB JOISTS SHALL BE AS SHOWN ON DRAWINGS. ANY SUBSTITUTIONS MUST BE APPROVED IN WRITING BY ENGINEER OR ARCHITECT OF RECORD.
3. PROVIDE 3 1/2" MINIMUM BEARING OR AS SPECIFIED ON PLANS. SHIM AS REQUIRED TO PROVIDE FULL BEARING AND LEVEL SUPPORT.
4. DO NOT CUT TOP OR BOTTOM CHORDS.
5. ALL HANGERS AND FRAMING CONNECTORS SHOWN ARE MANUFACTURED BY SIMPSON STRONG TIE. ANY SUBSTITUTIONS MUST BE APPROVED IN WRITING BY ENGINEER OR ARCHITECT OF RECORD.
6. REFER TO PLANS FOR WEB STIFFENER AND CONCENTRATED LOAD REQUIREMENTS.
7. REFER TO MANUFACTURERS' INSTALLATION GUIDE FOR JOIST BRACING DURING ERECTION. REFER TO MANUFACTURERS' INSTALLATION GUIDE FOR JOIST BRIDGING REQUIREMENTS.

SAWN LUMBER

- 1. ALL GRADES OF LUMBER INDICATED ON STRUCTURAL DRAWINGS SHALL BE RATED BY THE SOUTHERN PINE INSPECTION BUREAU (SPIB), OR THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA). LUMBER GRADES SHALL BE AS FOLLOWS, WITH A MAXIMUM MOISTURE CONTENT OF 19%:
A. SOUTHERN PINE NO. 1.
B. DOUGLAS FIR-LARCH NO. 1.
C. HEM-FIR NORTH NO. 1
2. BOLT HEADS AND NUTS BEARING ON WOOD SHALL BE PROVIDED WITH STANDARD CUT WASHERS. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
3. MINIMUM NAILED CONNECTIONS FOR WOOD FRAMING MEMBERS SHALL BE IN ACCORDANCE WITH THE LOCAL BUILDING CODE OR TABLE 2304.9.1 OF THE INTERNATIONAL BUILDING CODE IF NO OTHER CRITERIA IS GIVEN.
4. CONNECTORS SHOWN ON THE DETAILS ARE MANUFACTURED BY SIMPSON. WRITTEN APPROVAL BY ENGINEER REQUIRED FOR SUBSTITUTIONS.

ROOF & WALL SHEATHING

- 1. ALL SHEATHING SHALL CONFORM TO AMERICAN PLYWOOD ASSOCIATION (APA) DESIGN SPECIFICATIONS, LATEST EDITION. SHEATHING SHALL BE CONTINUOUS OVER THREE ADJACENT SPANS MINIMUM.
2. WALL SHEATHING SHALL BE 15/32" (1/2" NOMINAL) APA RATED SHEATHING, EXPOSURE 1, 32/16. ALL WALL SHEATHING SHALL BE FASTENED TO SUPPORTING MEMBERS W/ 8d COMMON NAILS @ 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATED SUPPORTS, U.N.O.
3. ROOF SHEATHING SHALL BE 23/32" (3/4" NOMINAL) APA RATED SHEATHING, EXPOSURE 1, 48/24. ALL ROOF SHEATHING SHALL BE FASTENED TO SUPPORTING MEMBERS W/10d COMMON NAILS @ 6" O.C. AT PANEL EDGES, AND 12" O.C. AT INTERMEDIATE SUPPORTS, U.N.O.

LIGHT GAGE METAL FRAMING

- 1. 16 GA. AND HEAVIER STUDS SHALL HAVE A MINIMUM YIELD STRESS OF 50,000 PSI. 18 GA. AND LIGHTER STUDS AND TRACKS SHALL HAVE A MINIMUM YIELD STRESS OF 33,000 PSI.
2. STUDS AND TRACKS SHALL BE 18 GA. MINIMUM U.N.O. THEY SHALL BE MANUFACTURED BY DIETRICH INDUSTRIES, INC. OR APPROVED EQUAL.
3. PROVIDE DOUBLE STUDS FOR FULL HEIGHT OF WALL EACH SIDE OF ALL OPENINGS UNLESS OTHERWISE NOTED. WELD STUDS TO EACH OTHER WITH 1 1/2" LONG 1/8" FILLET WELDS AT 12" O.C. EACH SIDE. PROVIDE STUD TRACK AT EACH HEAD AND SILL.
4. REFER TO PLANS AND DETAILS FOR CONNECTION OF STUD WALLS TO FOUNDATION, FLOOR OR ROOF.

SHOP DRAWINGS

- 1. SHOP DRAWING SUBMITTALS SHALL BE SUBMITTED ELECTRONICALLY.
2. SHOP DRAWINGS SHALL BE REVIEWED BY CONTRACTOR TO VERIFY THAT SUBMITTAL IS COMPLETE PRIOR TO SUBMITTING TO ARCHITECT/ENGINEER.
3. DRAWINGS CREATED BY THE ENGINEER OF RECORD CANNOT BE REPRODUCED AND/OR USED AS A SHOP DRAWING SUBMITTAL. SHOP DRAWING SUBMITTALS SHALL INCLUDE THE FOLLOWING:
A. CONCRETE MIX DESIGN
B. FOUNDATION REINFORCING BARS
C. STRUCTURAL STEEL
D. OPEN WEB JOISTS AND CALCULATIONS
E. ROOF SHEATHING
F. TRELIS SYSTEM & CALCULATIONS
G. LAMINATED VENEER LUMBER (LVL)
H. SAWN LUMBER AND CONNECTORS

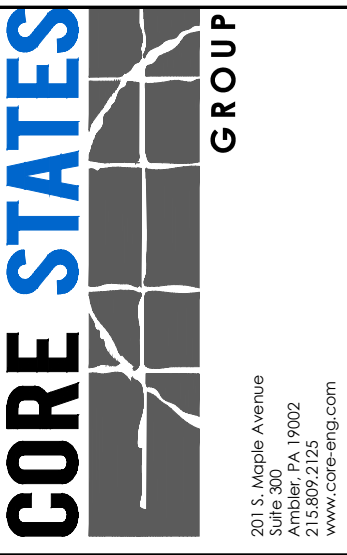
SPECIAL INSPECTIONS

- 1. SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 1705 OF IBC AND THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED UNDER SECTION 1705. THE FOLLOWING AREAS OF WORK REQUIRE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE LISTED 2012 INTERNATIONAL BUILDING CODE SECTIONS/LOCATIONS:
A. SOILS - SECTION 1705.6 PER TABLE 1705.6
B. CONCRETE - SECTION 1705.3 PER TABLE 1705.3
C. STEEL - SECTION 1705.2 (SEE AISC 360.10)
D. WOOD - SECTION 1705.5

MISCELLANEOUS

- 1. ALL DIMENSIONS ON STRUCTURAL DRAWINGS TO BE CHECKED AGAINST ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS BY THE GENERAL CONTRACTOR AND ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT IMMEDIATELY.
2. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY, UNRELIEVED BY REVIEW OF SHOP DRAWINGS OR PERIODIC OBSERVATION OF CONSTRUCTION, FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, FOR FABRICATION PROCESSES AND CONSTRUCTION TECHNIQUES, AND FOR SAFE CONDITIONS ON THE JOB SITE.
3. DO NOT SCALE THE DRAWINGS.

Table with columns for revision (REV), date, and description.



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Table with project details including title (2022 STANDARD BUILDING - BB20), description (WOOD BEARING WALLS W/HARDE BOARD SIDING), site address (1000 S Main Street, SALEM, MO), and sheet number (S4.0).