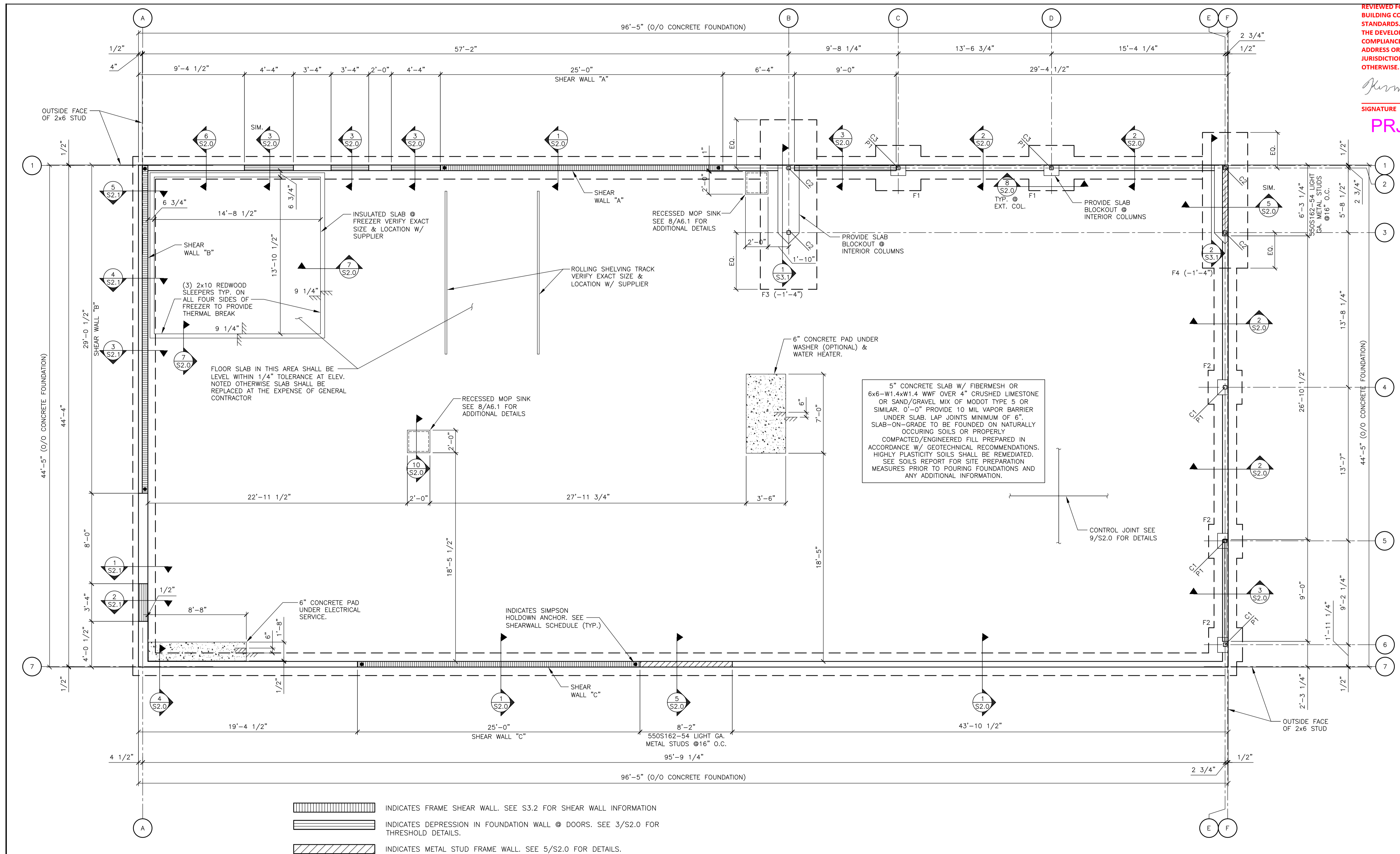


REVIEWED FOR COMPLIANCE WITH THE CITY CODE, ADOPTED BUILDING CODES, ZONING ORDINANCE AND DESIGN STANDARDS. THIS REVIEW AND APPROVAL DOES NOT RELIEVE THE DEVELOPER OR HIS AGENTS OF ANY RESPONSIBILITY FOR COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OR ADDRESS OR OVERRULE THE REQUIREMENTS OF OTHER JURISDICTIONS OR AGENCIES, UNLESS SPECIFICALLY NOTED OTHERWISE.

Signature: *Kevin R. Davis* DATE: 04/25/23
PRJ2023-00032



5" CONCRETE SLAB W/ FIBERMESH OR 6x6-W14xW14 WWF OVER 4" CRUSHED LIMESTONE OR SAND/GRAVEL MIX OF MODOT TYPE 5 OR SIMILAR. 0'-0" PROVIDE 10 MIL VAPOR BARRIER UNDER SLAB. LAP JOINTS MINIMUM OF 6". SLAB-ON-GRADE TO BE FOUNDED ON NATURALLY OCCURRING SOILS OR PROPERLY COMPACTED/ENGINEERED FILL PREPARED IN ACCORDANCE W/ GEOTECHNICAL RECOMMENDATIONS. HIGHLY PLASTICITY SOILS SHALL BE REMEDIATED. SEE SOILS REPORT 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 3/S2.0 FOR THRESHOLD DETAILS.
- INDICATES METAL STUD FRAME WALL. SEE 5/S2.0 FOR DETAILS.

- NOTES:
1. TOP OF FOOTING @ EL. (-2'-0") UNLESS NOTED OTHERWISE.
 2. TOP OF PIER @ EL. (-0'-8") UNLESS NOTED OTHERWISE.
 3. SEE SHEET S4.0 FOR GENERAL STRUCTURAL NOTES.
 4. PROVIDE POSITIVE DRAINAGE TO ALL FLOOR DRAINS/SINKS (MIN 6") BEYOND DRAIN) SEE PLUMBING DRAWINGS FOR EXACT LOCATIONS
 5. SEE SHEET S2.0 FOR TYPICAL CORNER BAR DETAILS.
 6. 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"
 7. 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.)
 8. 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 | 5'-0"x15'-0"x3'-0" | 11-#7 L.W.-T&B #6 @ 12" O.C. S.W.-T&B |
| F4 | 4'-0"x12'-0"x3'-0" | 9-#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

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

STATE OF MISSOURI
DAVID BALMA
NUMBER PE-2015003007
PROFESSIONAL ENGINEER
1/17/2022

CORE STATES GROUP
CORPORATE INC.
301 S. Weber Avenue
Amesbury, MA 01922
www.corestates.com

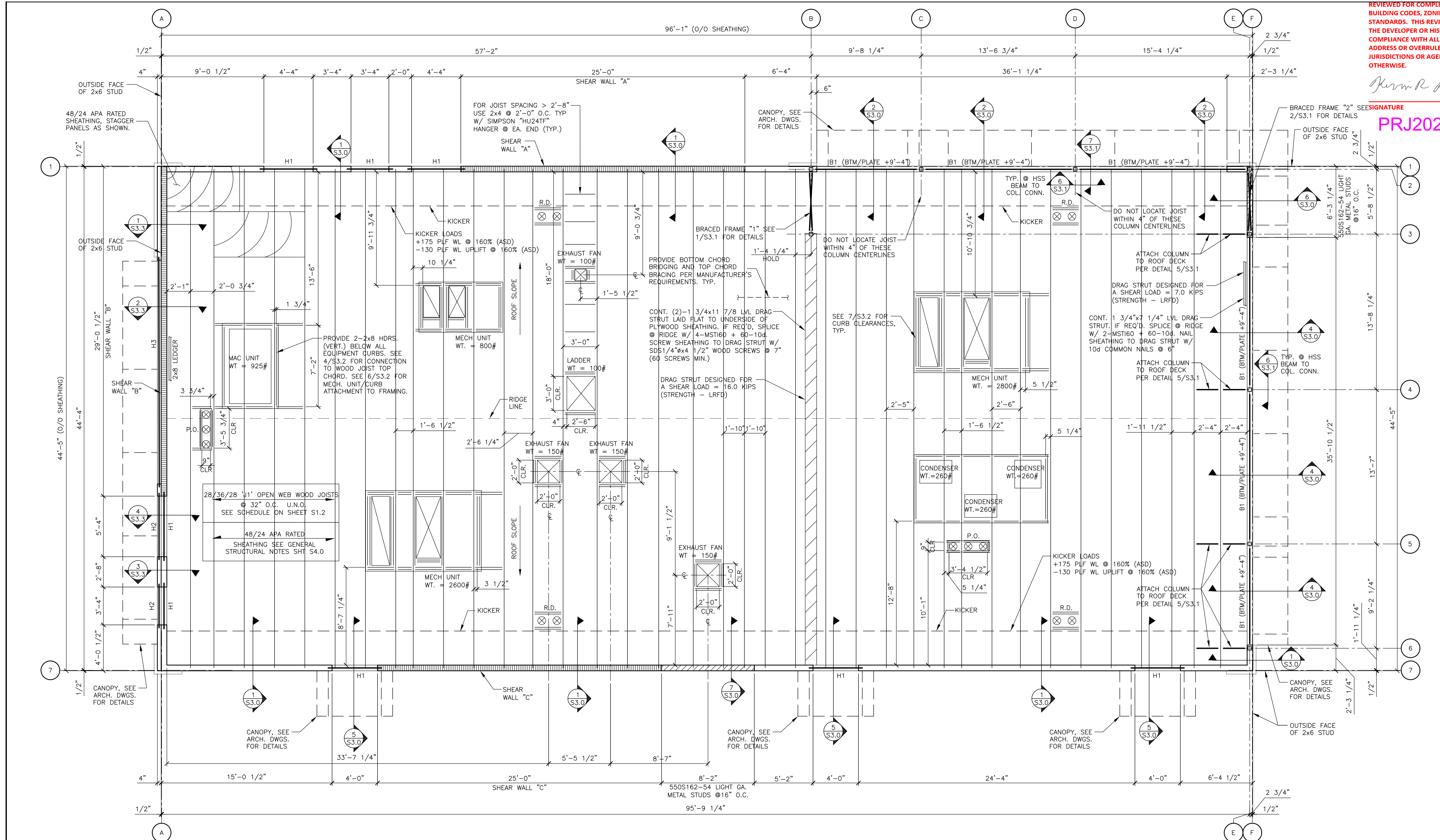
PREPARED FOR: McDonald's USA, LLC
DRAWN BY: J.CARRAS
STD ISSUE DATE: 2022-10
REVIEWED BY: J.PERRY
DATE ISSUED: 10 04 2022
C.S.G. PROJECT # MCD_35915

TITLE: 2022 STANDARD BUILDING - BB20
4597 - WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS W/HARDBOARD SIDING
WOOD ROOF TRUSS FRAMING
E.L.F.S./BATEN/HARDBOARD SIDING EXTERIOR FINISH
SITE ADDRESS: 3720 W. Sunshine
Springfield, MO 65804

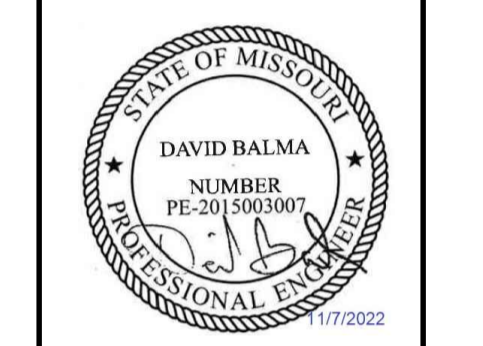
024-1290.00.0
S1.0
FOUNDATION PLAN

REVIEWED FOR COMPLIANCE WITH THE CITY CODE, ADOPTED BUILDING CODES, ZONING ORDINANCE AND DESIGN STANDARDS. THIS REVIEW AND APPROVAL DOES NOT RELIEVE THE DEVELOPER OR HIS AGENTS OF ANY RESPONSIBILITY FOR COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OR ADDRESS OR OVERRULE THE REQUIREMENTS OF OTHER JURISDICTIONS OR AGENCIES, UNLESS SPECIFICALLY NOTED OTHERWISE.

Signature: *Kevin R. Davis*
 DATE: 04/25/23
 PRJ2023-00032



| NO. | REV. | DATE | DESCRIPTION |
|-----|------|------|-------------|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |



PREPARED FOR: **McDonald's USA, LLC**
 3013 Wagon Avenue
 Amesbury, MA 01922
 www.corestates.com

| | | | | | |
|--------------------|-------------------------------|----------------------|--|------------------|-----------------|
| DRAWN BY: J.CARRAS | DATE: 2022-10 | REVIEWED BY: J.PERRY | DATE ISSUED: 10 04 2022 | C.S.G. PROJECT # | MCD_35915 |
| STD ISSUE DATE | 2022-10 | | | | |
| TITLE | 2022 STANDARD BUILDING - BB20 | DESCRIPTION | WOOD BEARING WALLS W/HARDBOARD SIDING | SITE ADDRESS | 3720 W Sunshine |
| | 4597 - WOOD/WOOD | | WOOD ROOF TRUSS FRAMING | | Springfield, MO |
| | | | E.L.F.S./BATTEN/HARDBOARD SIDING EXTERIOR FINISH | | |
| | | | | | |

1 FRAMING PLAN
 S1.2 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.

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 < 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 13-16d COMMON NAILS SPACED @ 4" ON CENTER (26 TOTAL).
 - SEE 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 |

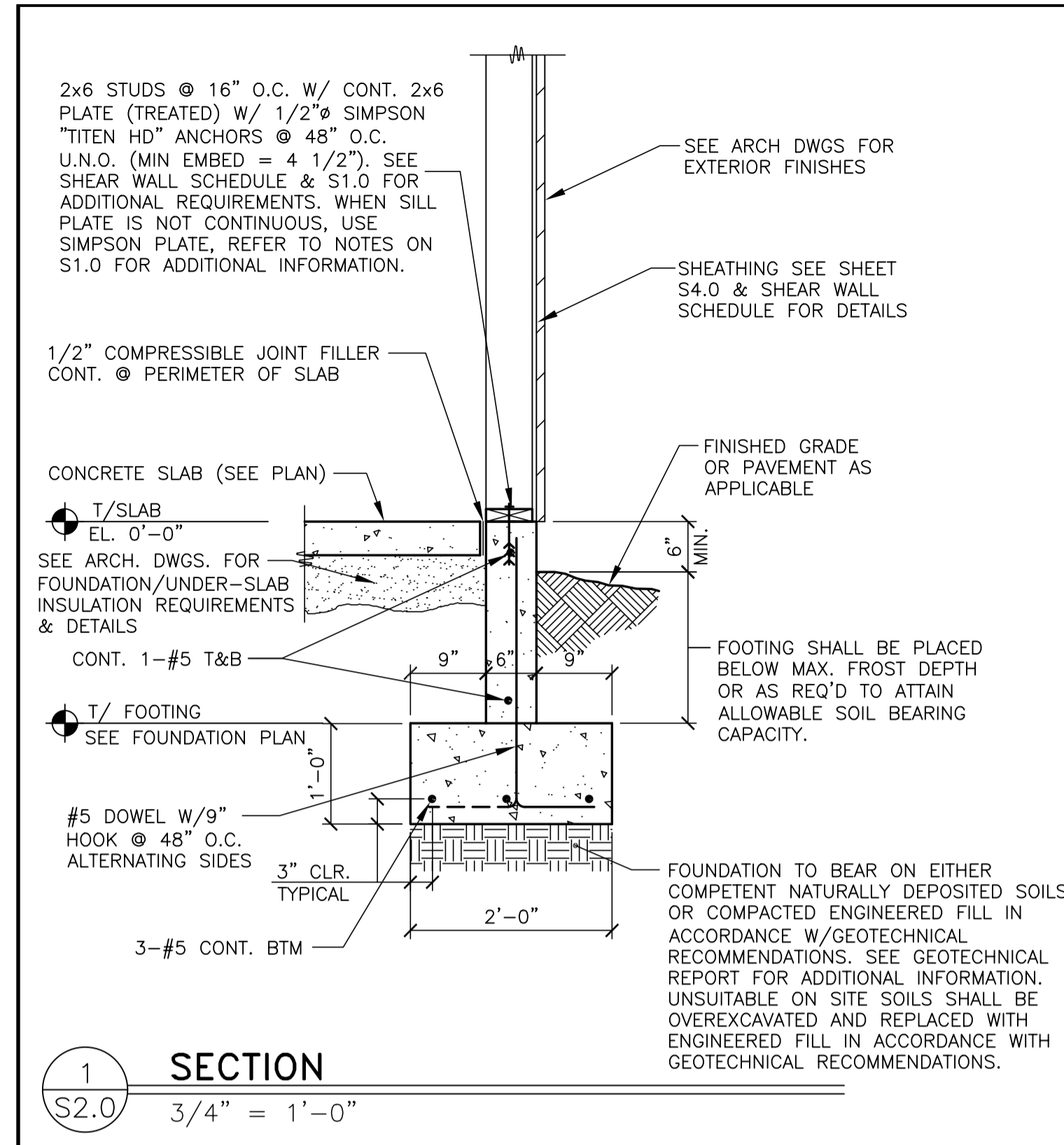
| HEADER SCHEDULE | | | |
|-----------------|-------------------|-------|----------------------------|
| MARK | MEMBER | SHAPE | BEARING |
| H1 | 5 1/4"x9 1/2" LVL | ⊠ | SEE DETAIL 2/S3.2 |
| H2 | 3 1/2"x9 1/2" LVL | ⊠ | SEE DETAIL 2/S3.2 |
| H3 | 3 1/2"x9 1/2" LVL | ⊠ | SEE DETAIL 2/S3.2 & 8/S3.2 |

| JOIST SCHEDULE | | | |
|----------------|---------------------|-------------|-----------------------|
| MARK | LIVE/ROOF SNOW LOAD | DEPTH | MANUFACTURER & SERIES |
| J1 | 20/15 PSF | 28"/36"/28" | REDBUILT "RED-S" |

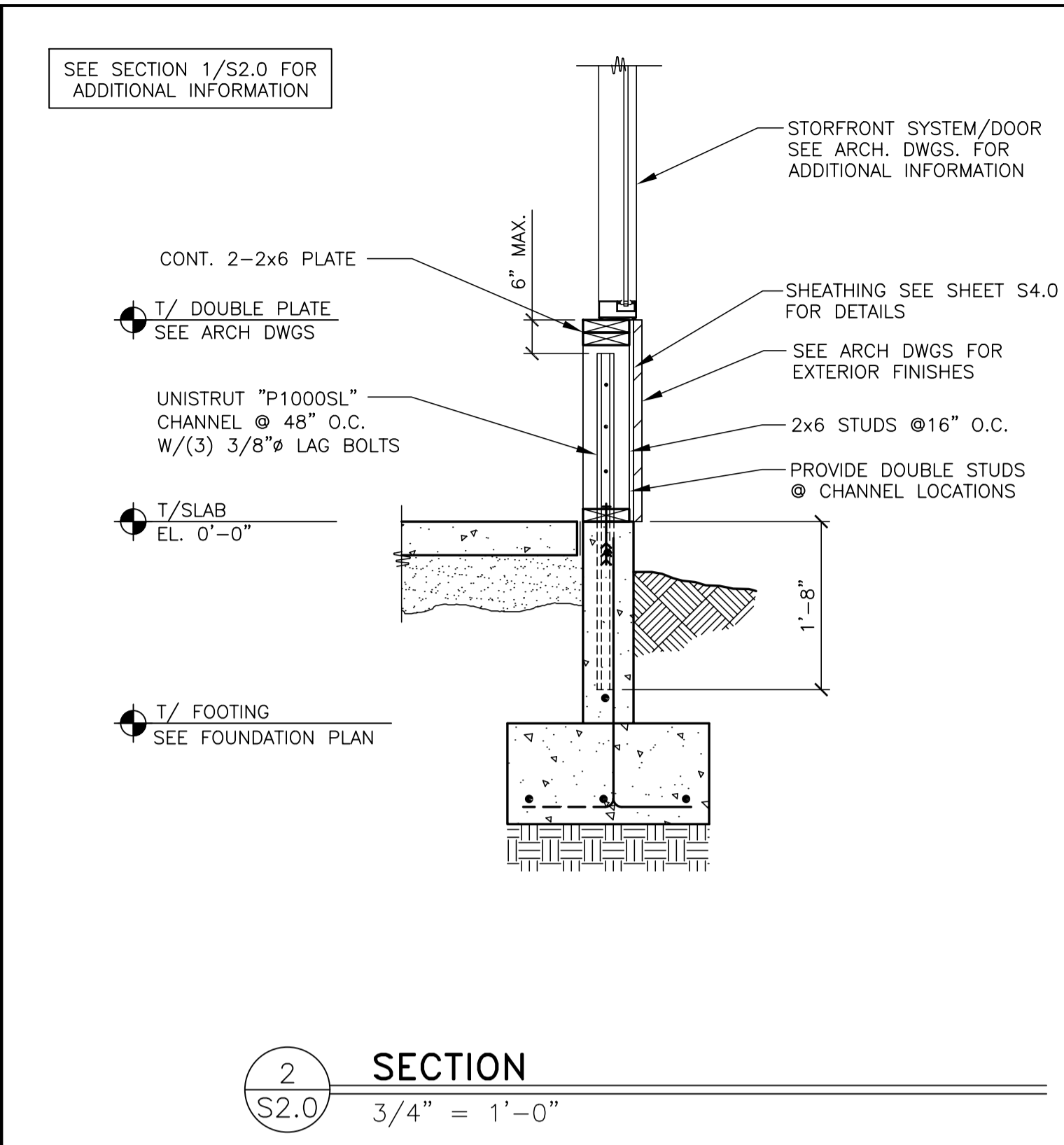
NOTE: SEE DETAIL 4/S3.2 FOR JOIST DETAILS AND SUPPLIER INFORMATION

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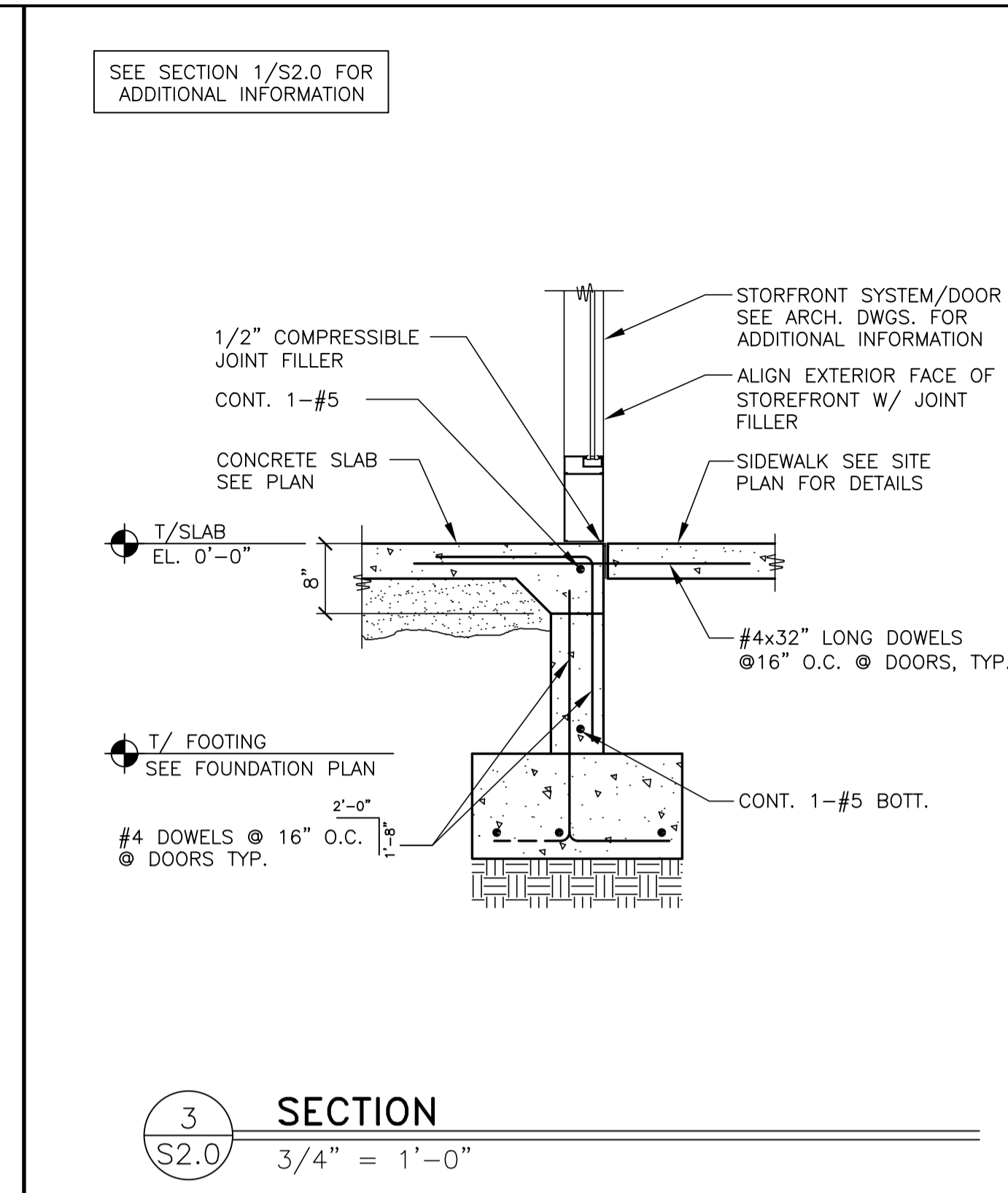
04/25/23
 DATE
 PRJ2023-00032
 SIGNATURE



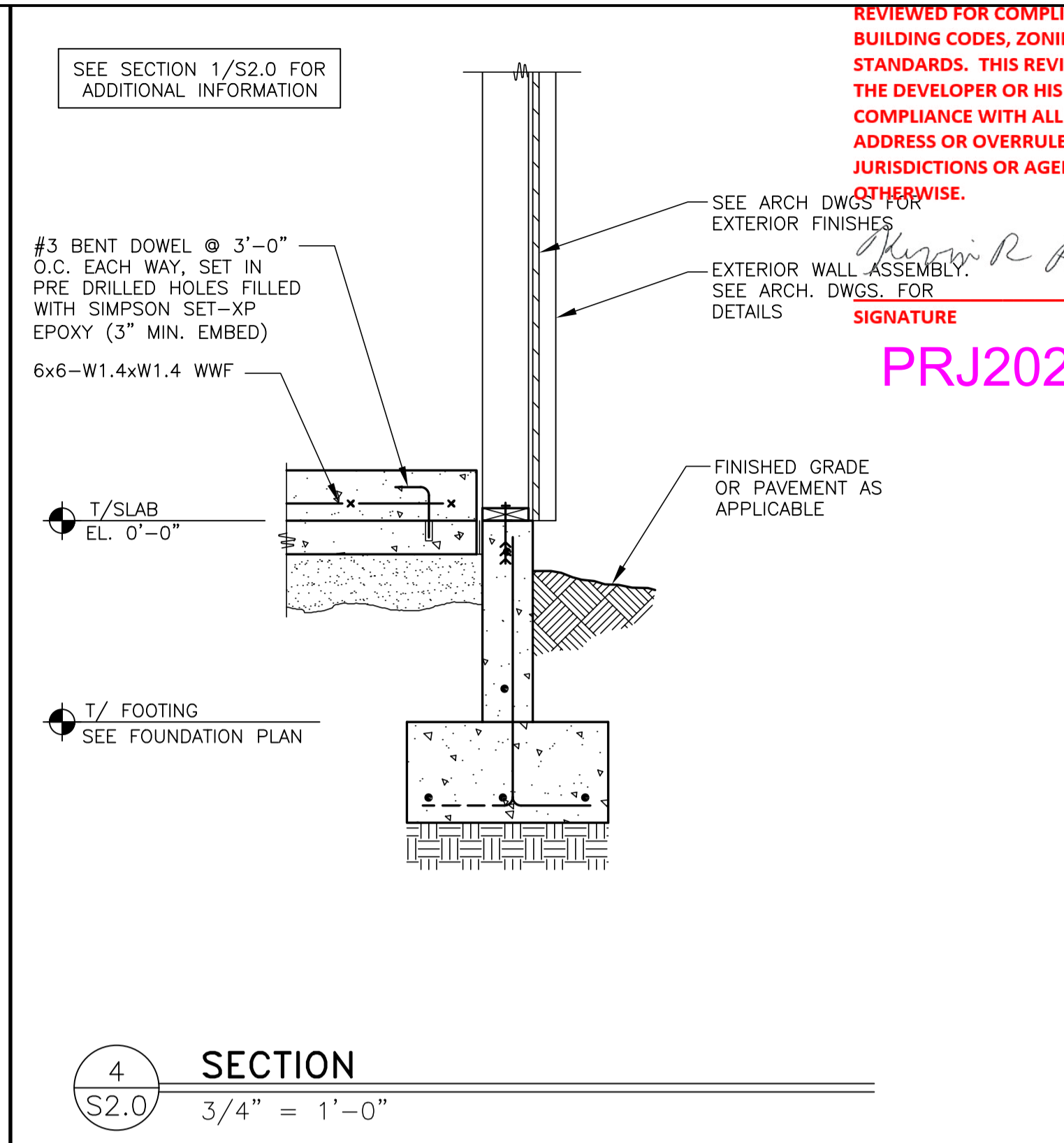
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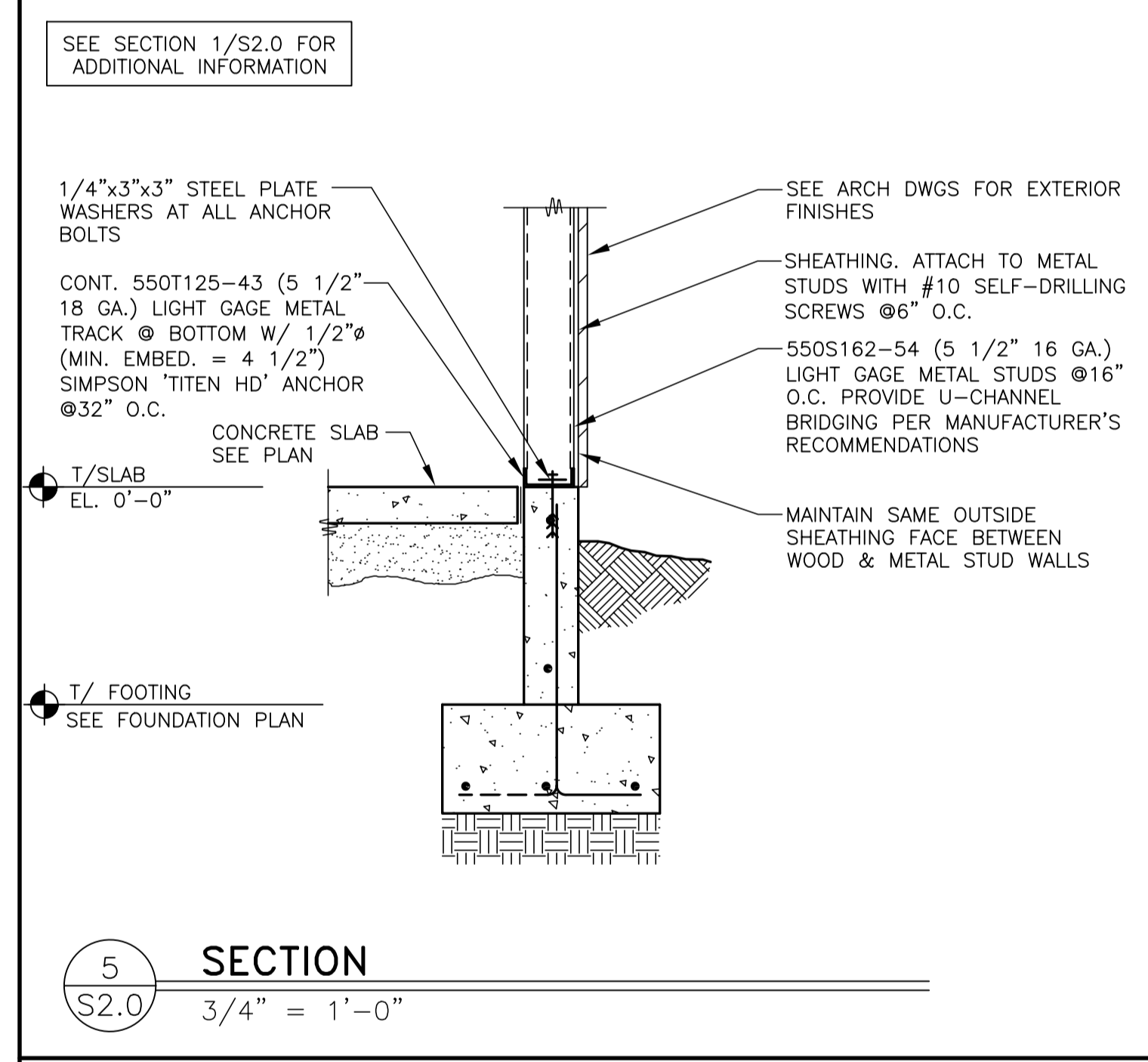
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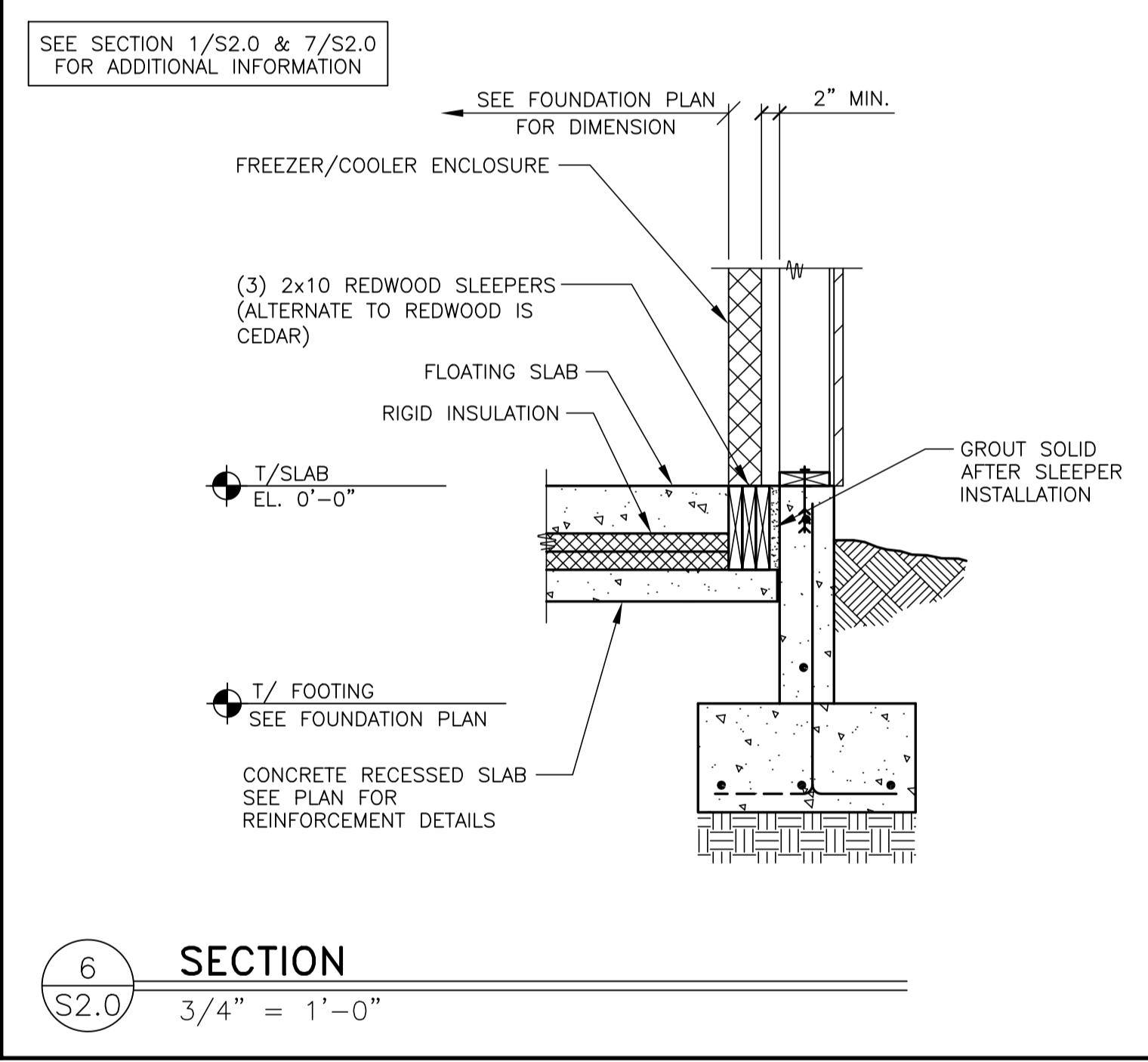
3 SECTION
 S2.0 3/4" = 1'-0"



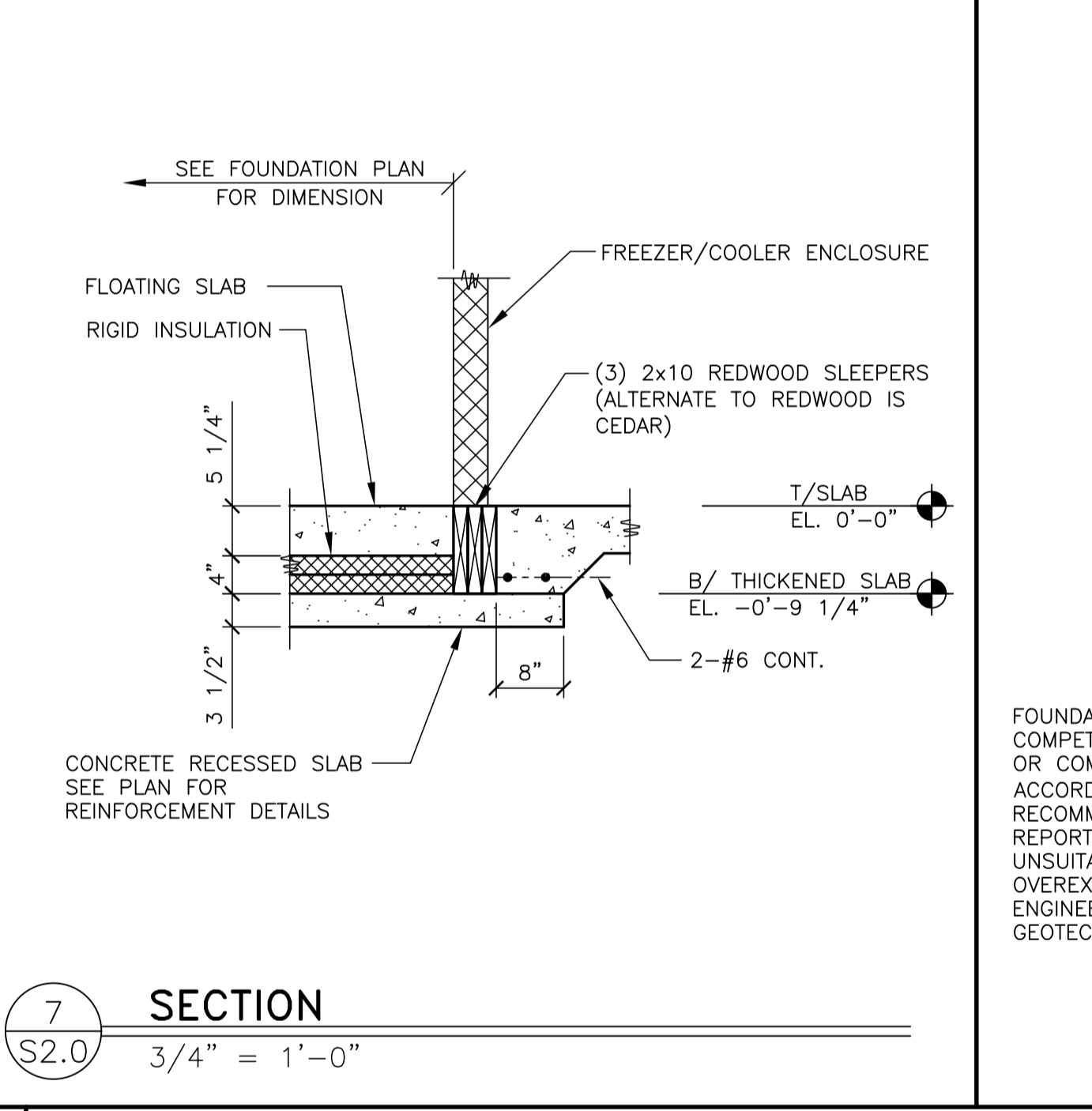
4 SECTION
 S2.0 3/4" = 1'-0"



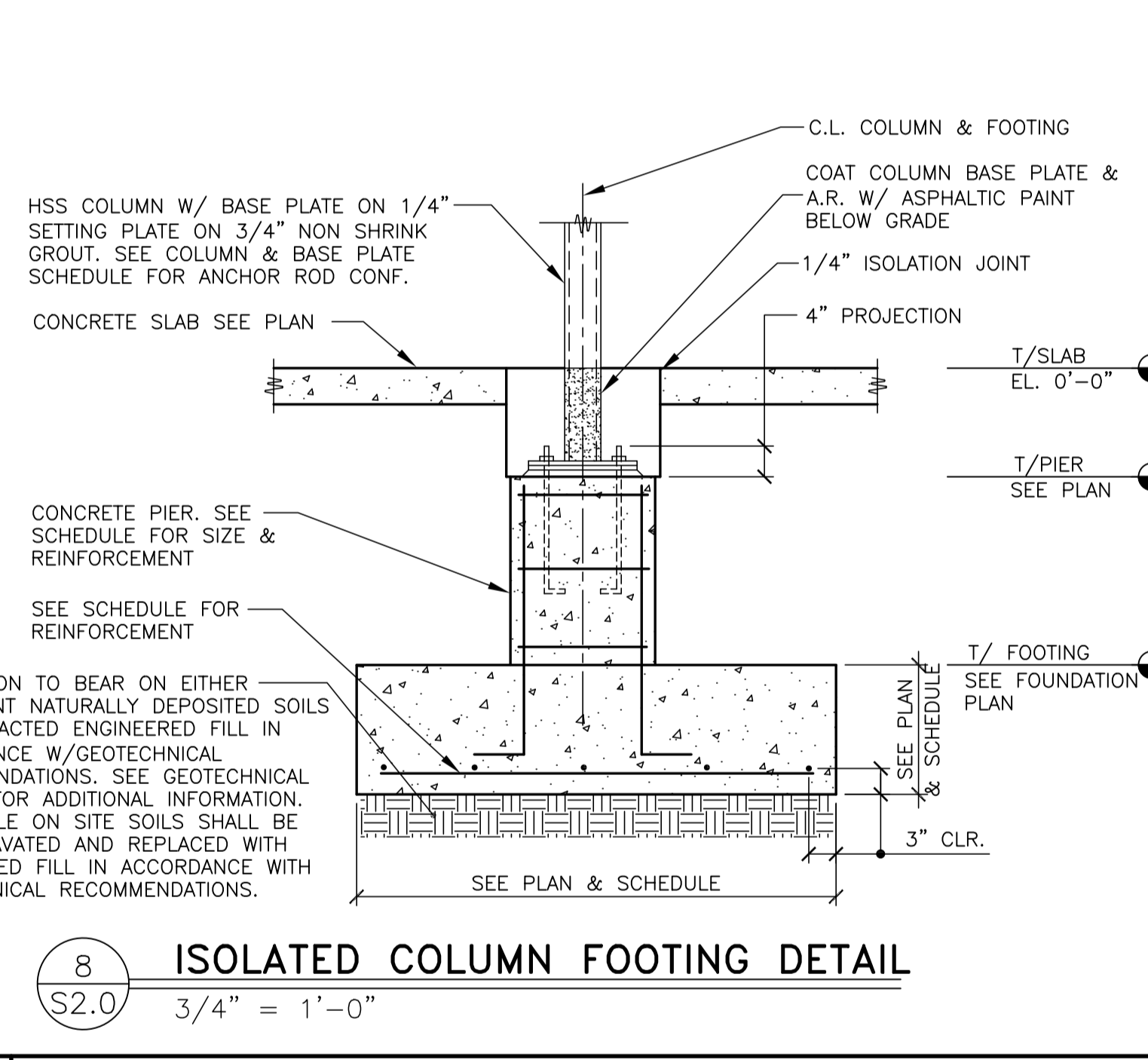
5 SECTION
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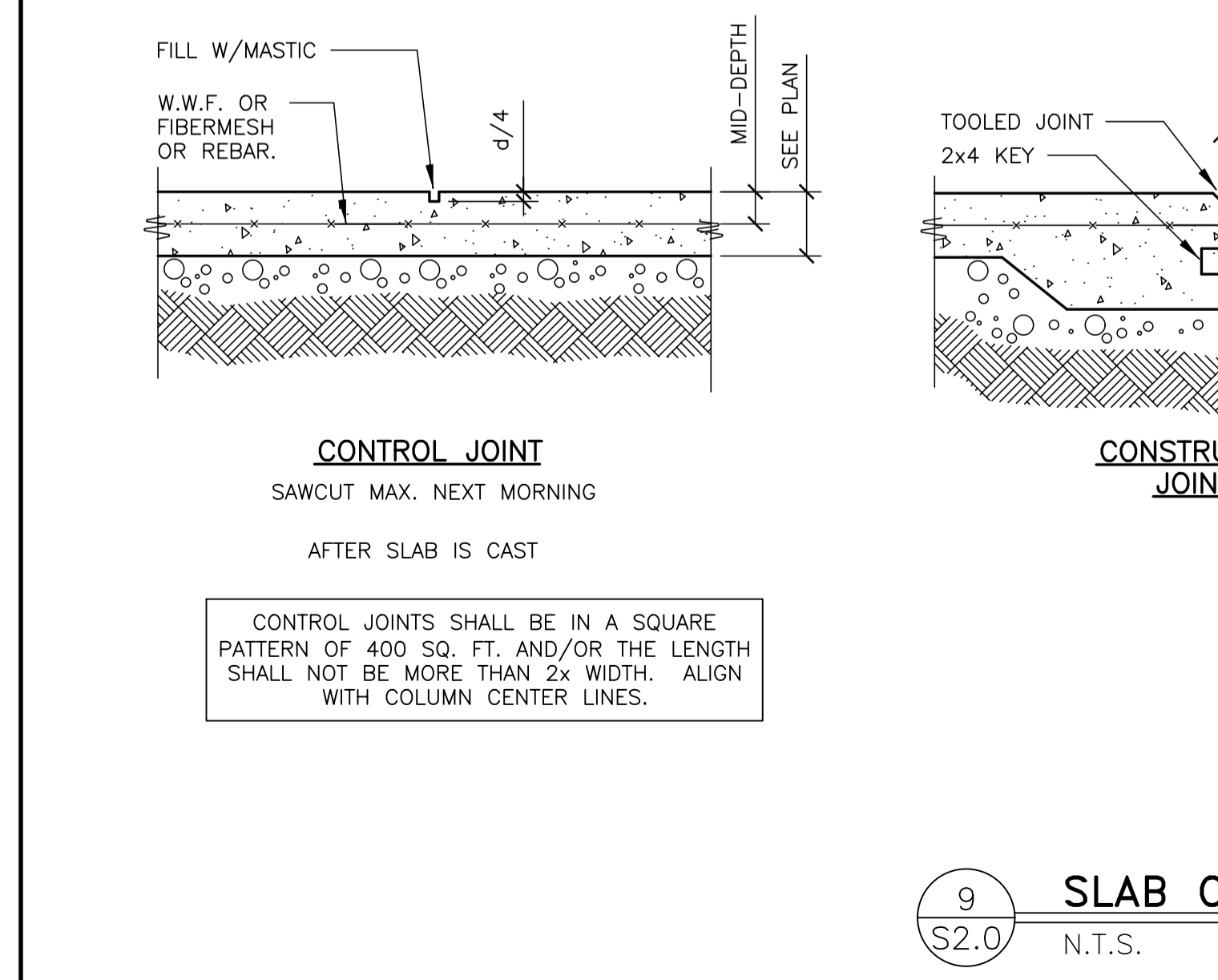
6 SECTION
 S2.0 3/4" = 1'-0"



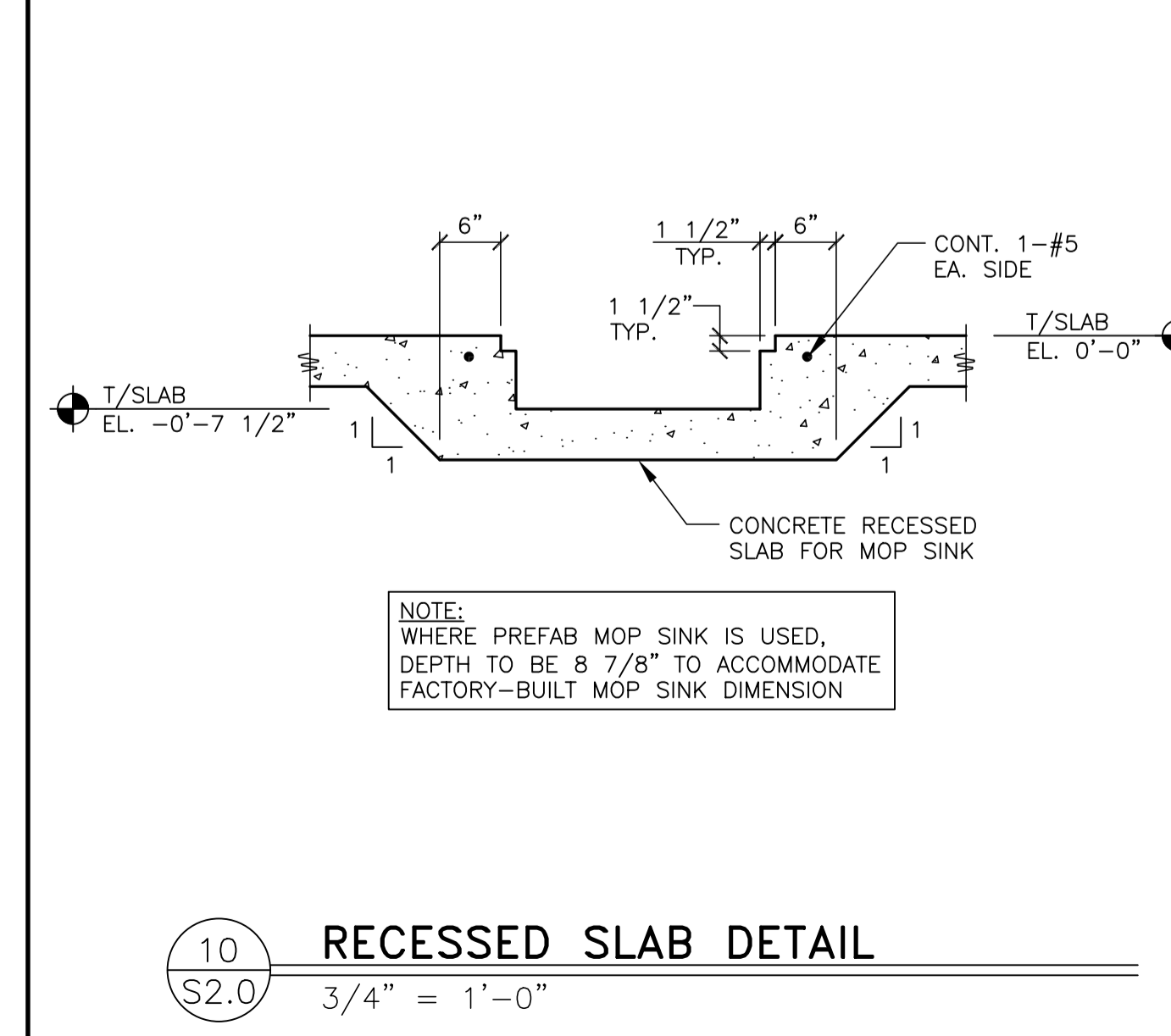
7 SECTION
 S2.0 3/4" = 1'-0"



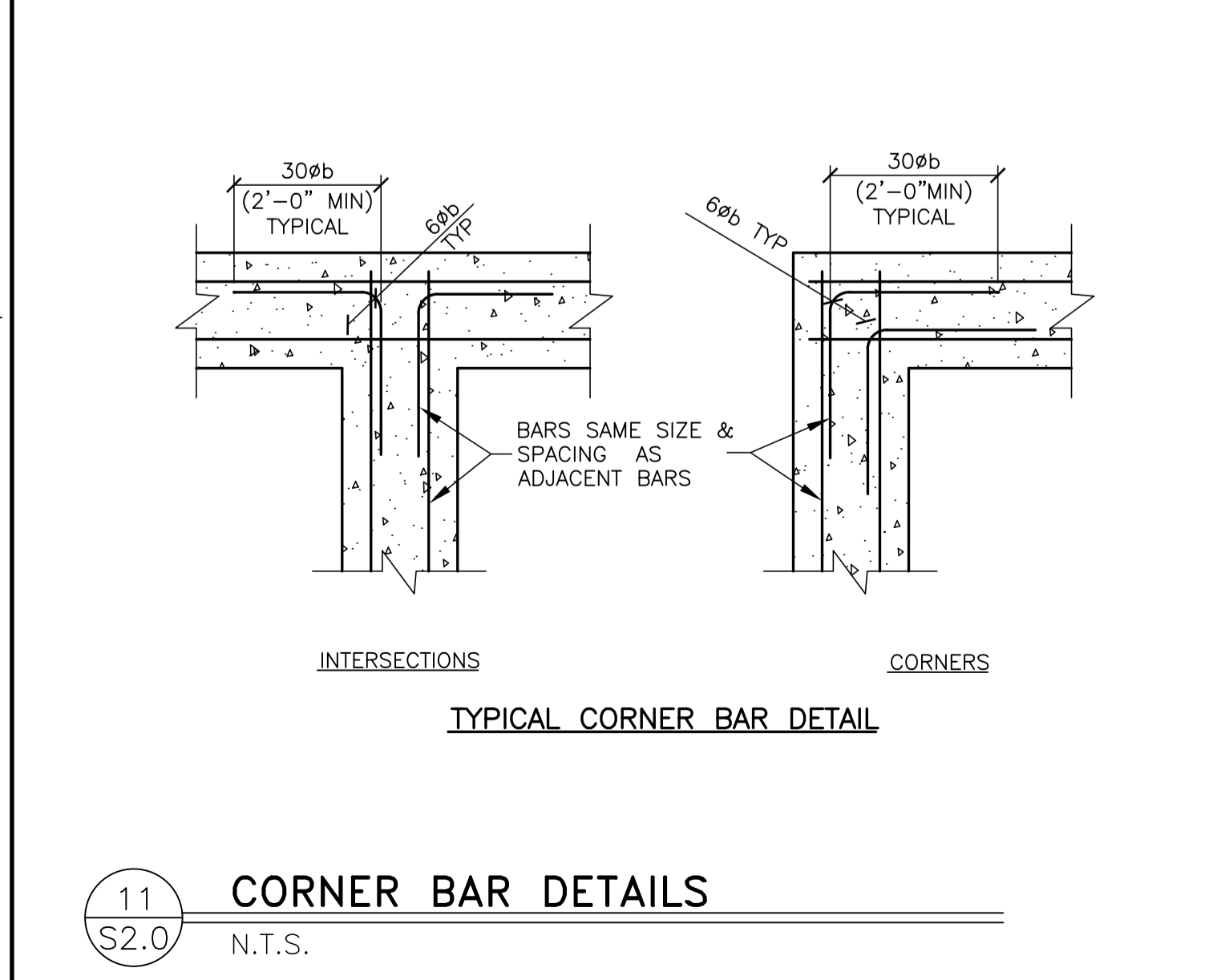
8 ISOLATED COLUMN FOOTING DETAIL
 S2.0 3/4" = 1'-0"



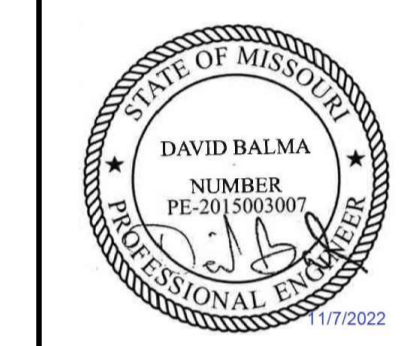
9 SLAB ON GRADE DETAILS
 S2.0 N.T.S.



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



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

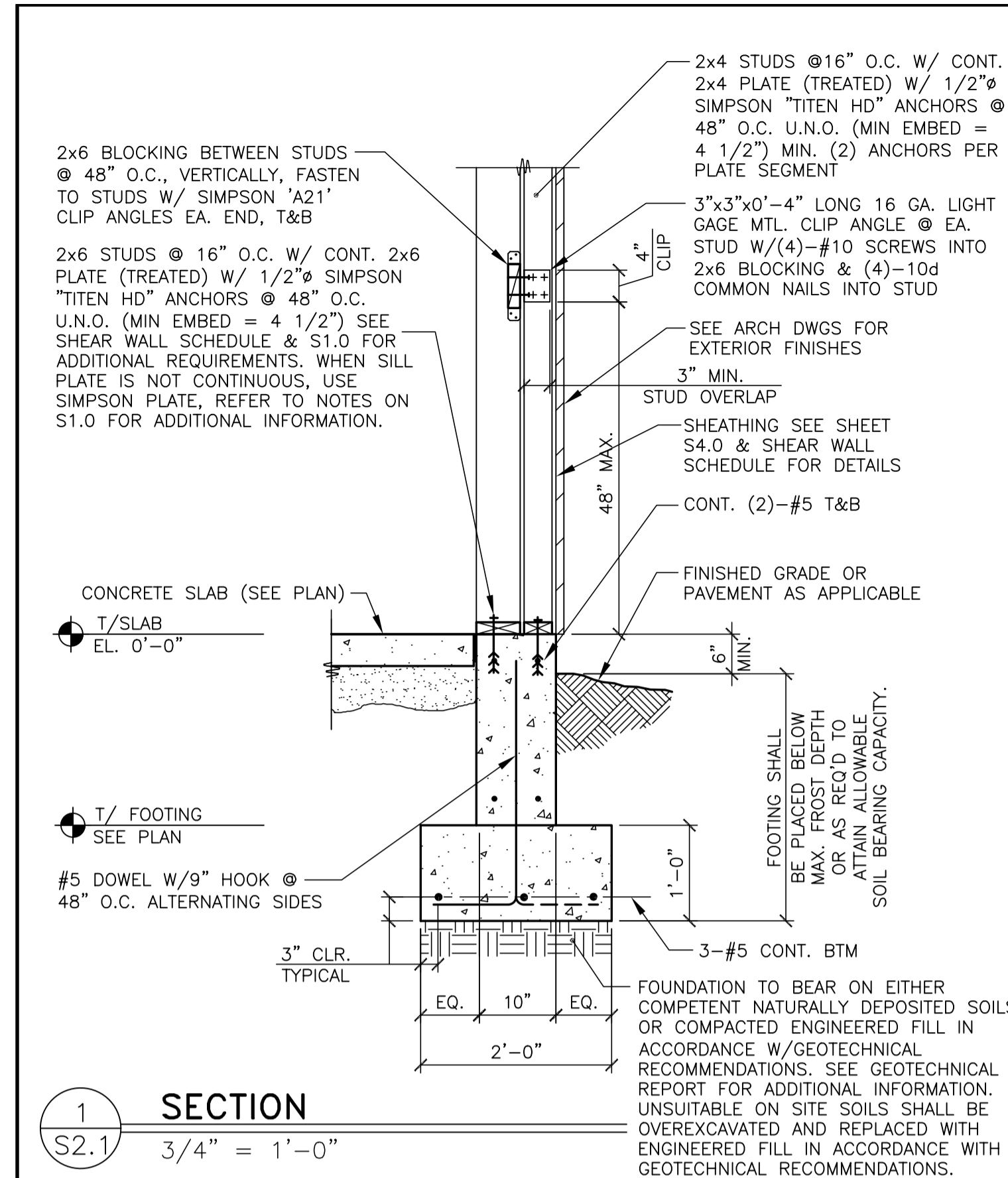


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 2022 McDonald's USA, LLC
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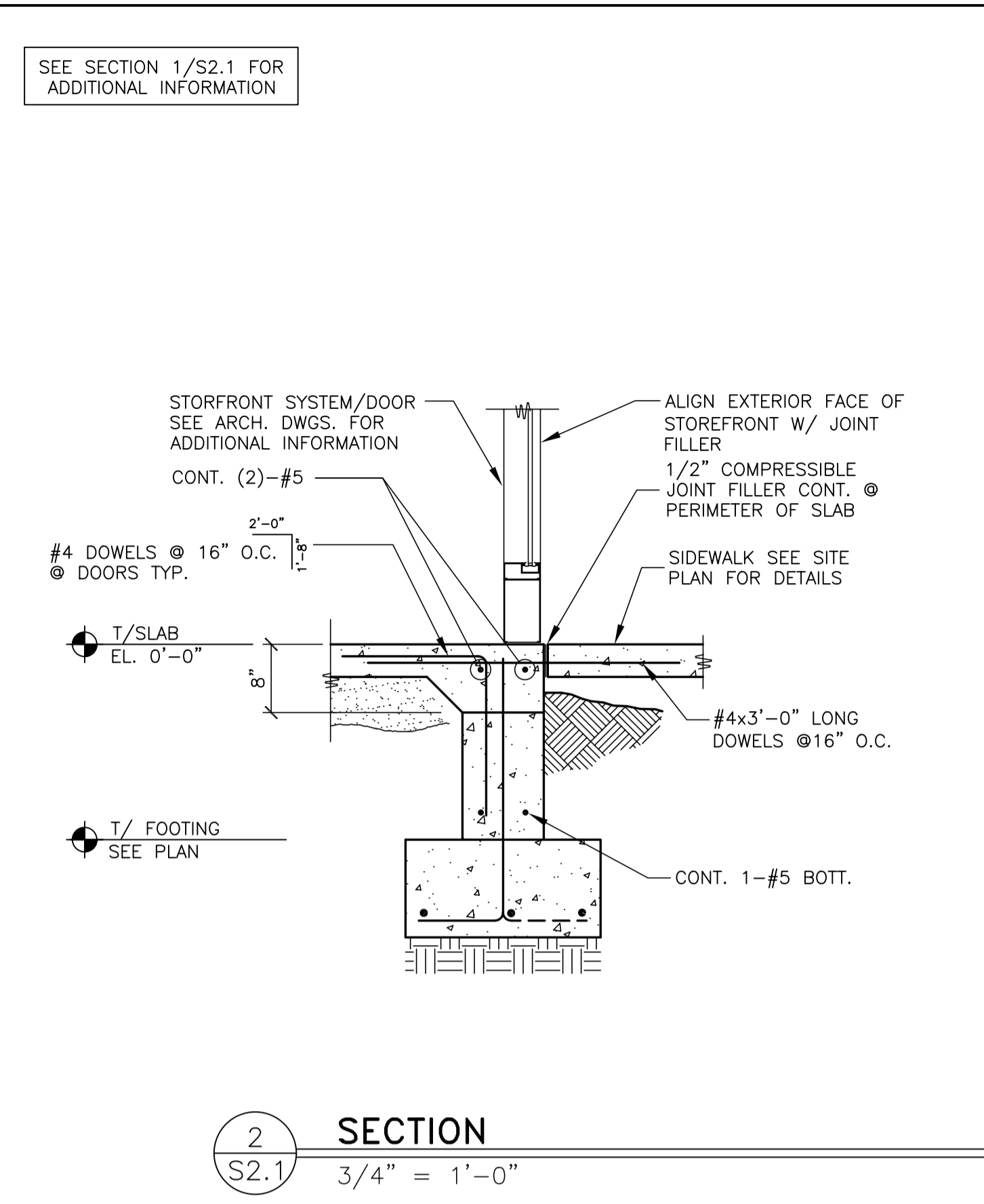
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|---------------------|--|
| DRAWN BY | J.CARRAS |
| STD ISSUE DATE | 2022-10 |
| REVIEWED BY | J.PERRY |
| DATE ISSUED | 10 04 2022 |
| C.S.G. PROJECT # | MCD_35915 |
| TITLE | 2022 STANDARD BUILDING - BB20 |
| DESCRIPTION | 4597 - WOOD/WOOD |
| DESCRIPTION | WOOD BEARING WALLS W/HARDBOARD SIDING |
| DESCRIPTION | WOOD ROOF TRUSS FRAMING |
| DESCRIPTION | E.L.F.S./BATTEN/HARDBOARD SIDING EXTERIOR FINISH |
| SITE ID | 3720 W. Sunshine |
| SITE ADDRESS | Springfield, MO |
| NO. | 024-1290.00.0 |
| SHEET NO. | S2.0 |
| FOUNDATION SECTIONS | |

REVIEWED FOR COMPLIANCE WITH THE CITY CODE, ADOPTED BUILDING CODES, ZONING ORDINANCE AND DESIGN STANDARDS. THIS REVIEW AND APPROVAL DOES NOT RELIEVE THE DEVELOPER OR HIS AGENTS OF ANY RESPONSIBILITY FOR COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OR ADDRESS OR OVERRULE THE REQUIREMENTS OF OTHER JURISDICTIONS OR AGENCIES, UNLESS SPECIFICALLY NOTED OTHERWISE.

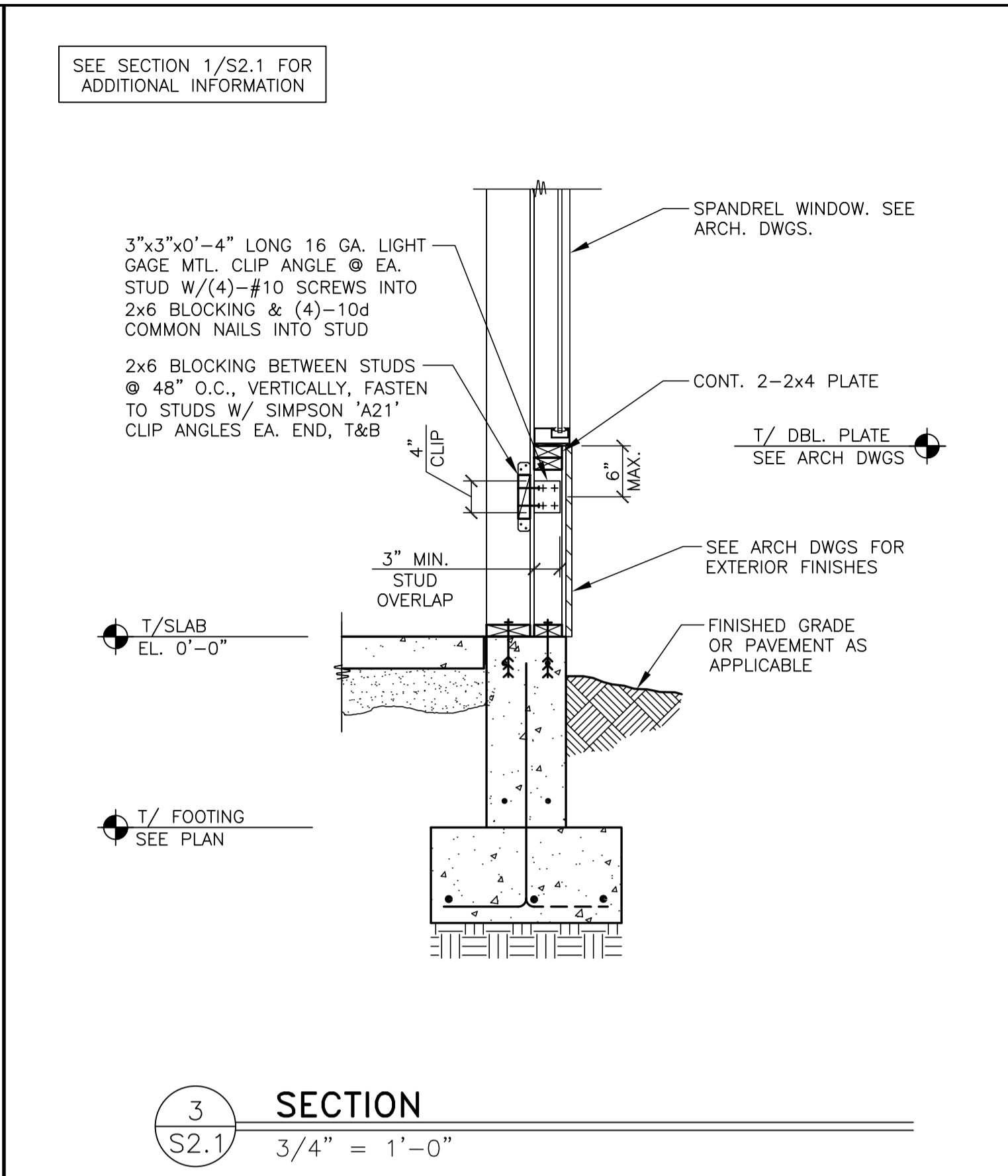
Kevin R. Davis
DATE 04/25/23
PRJ2023-00032



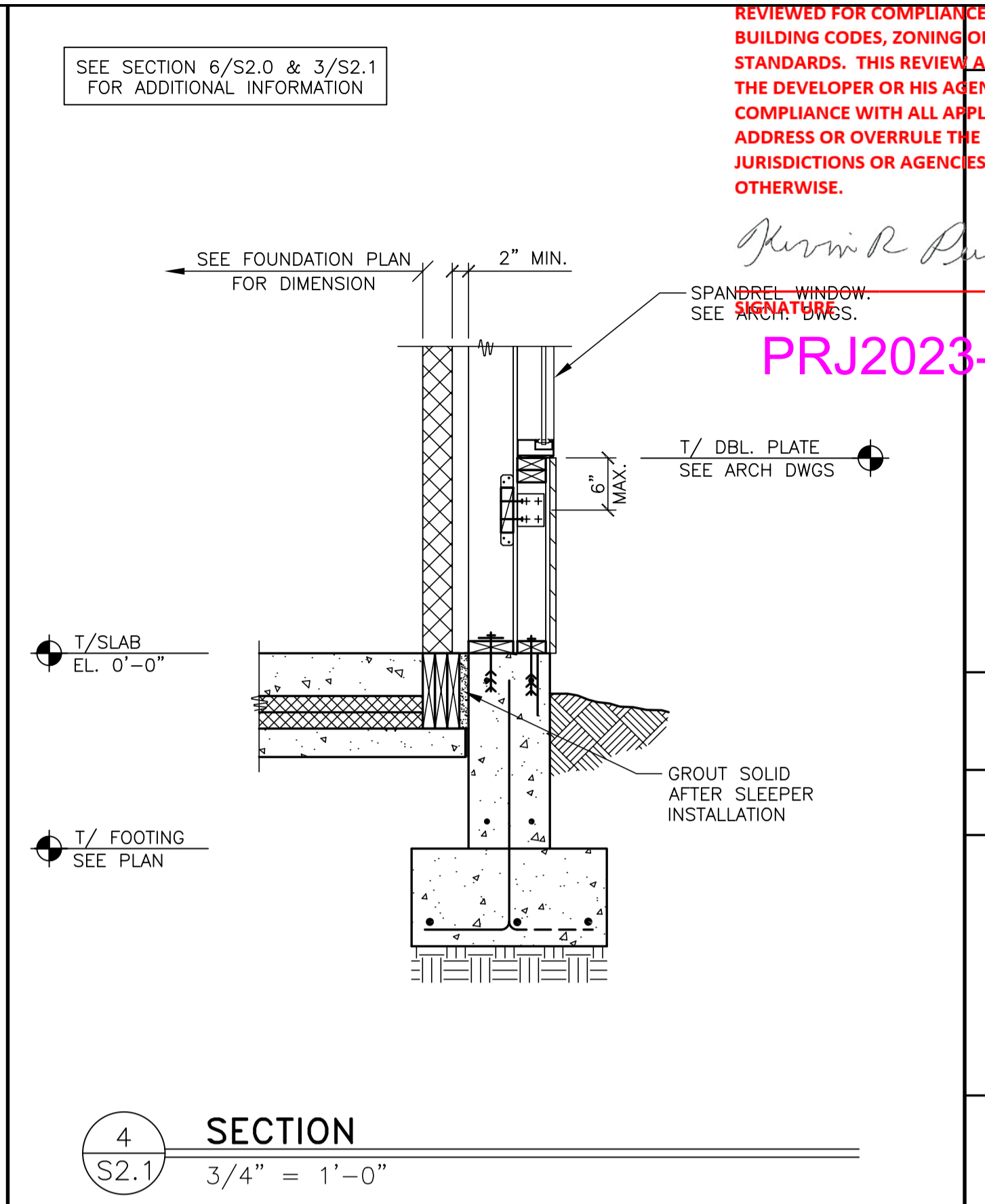
1 SECTION
S2.1 3/4" = 1'-0"



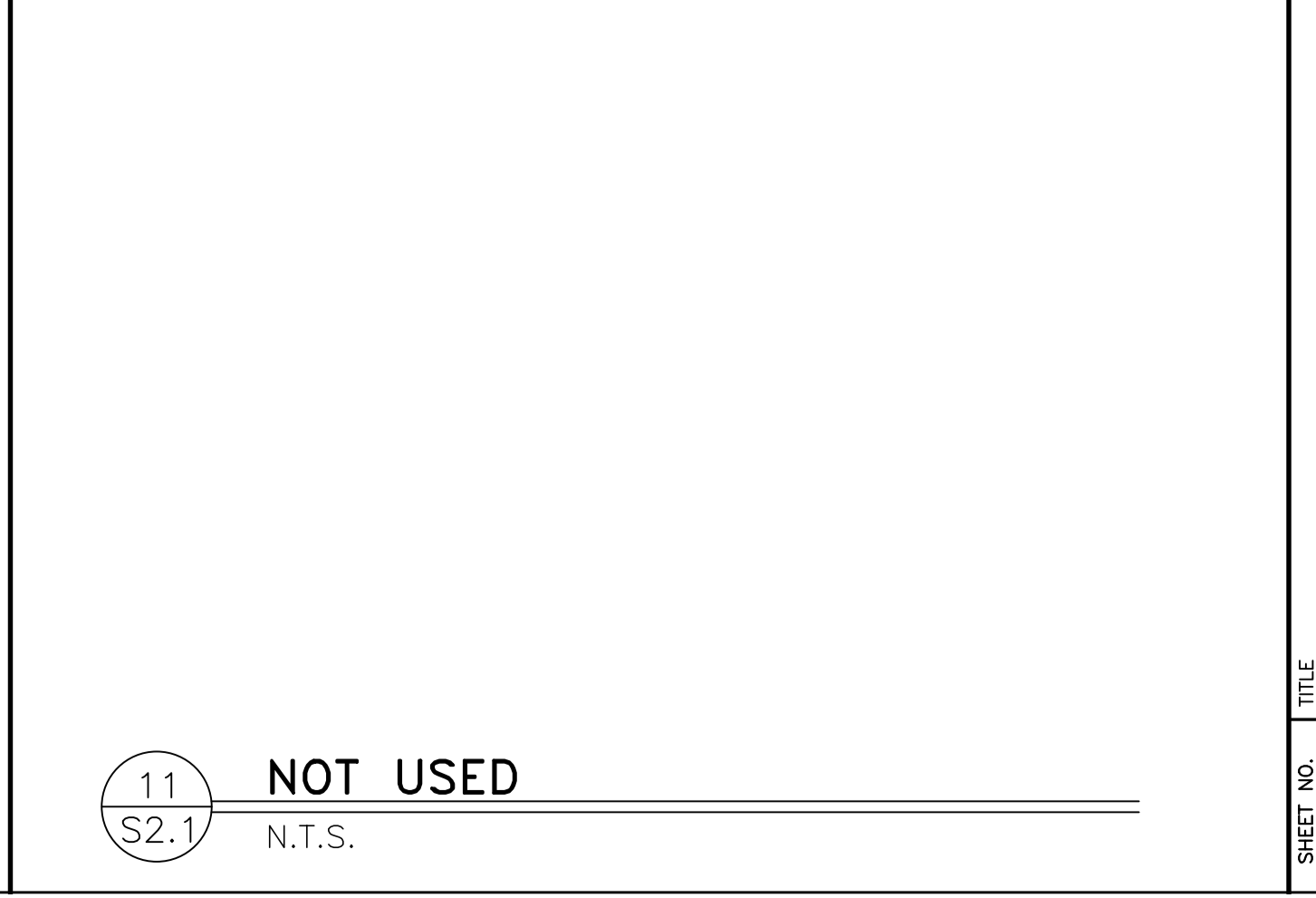
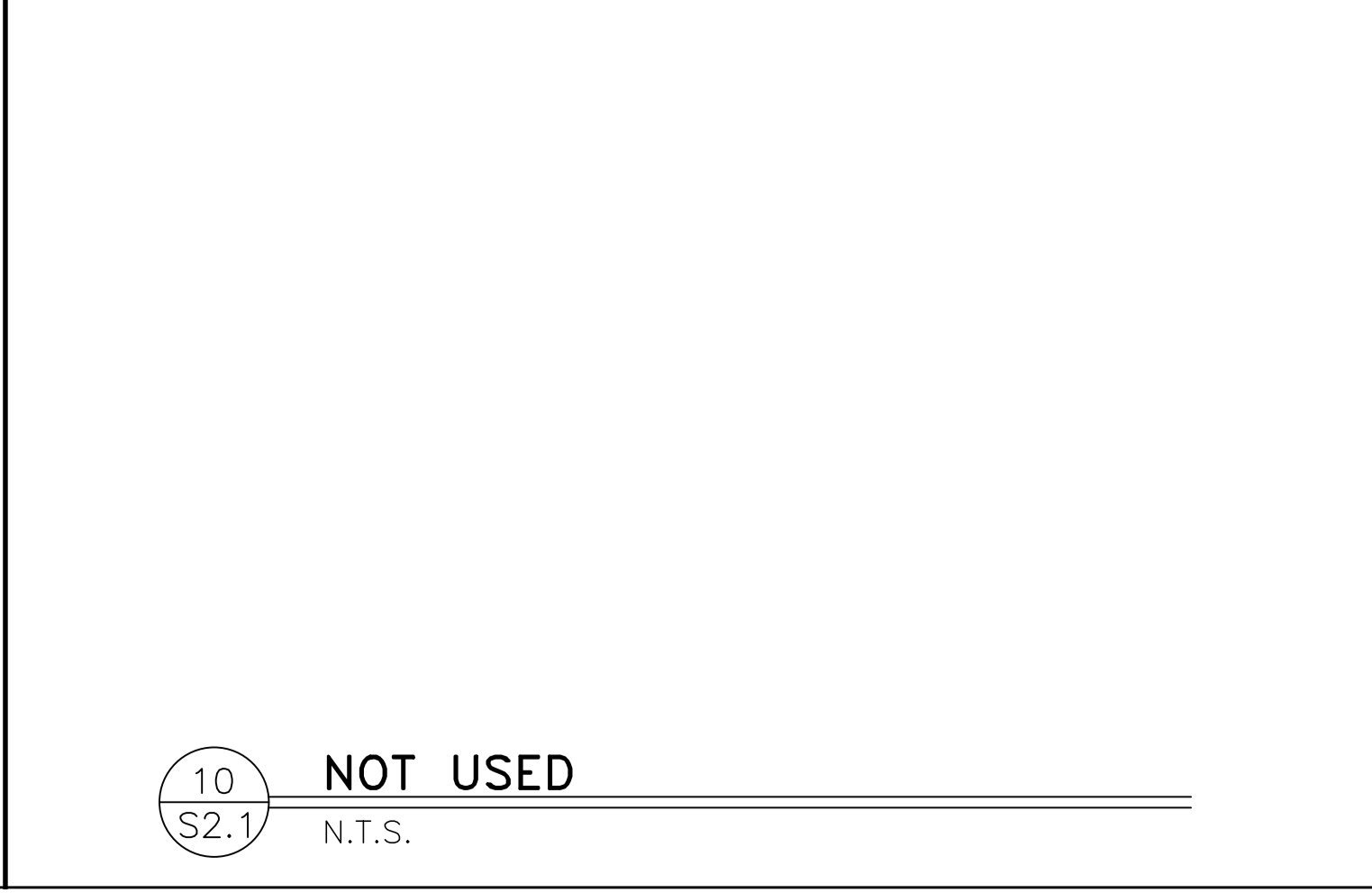
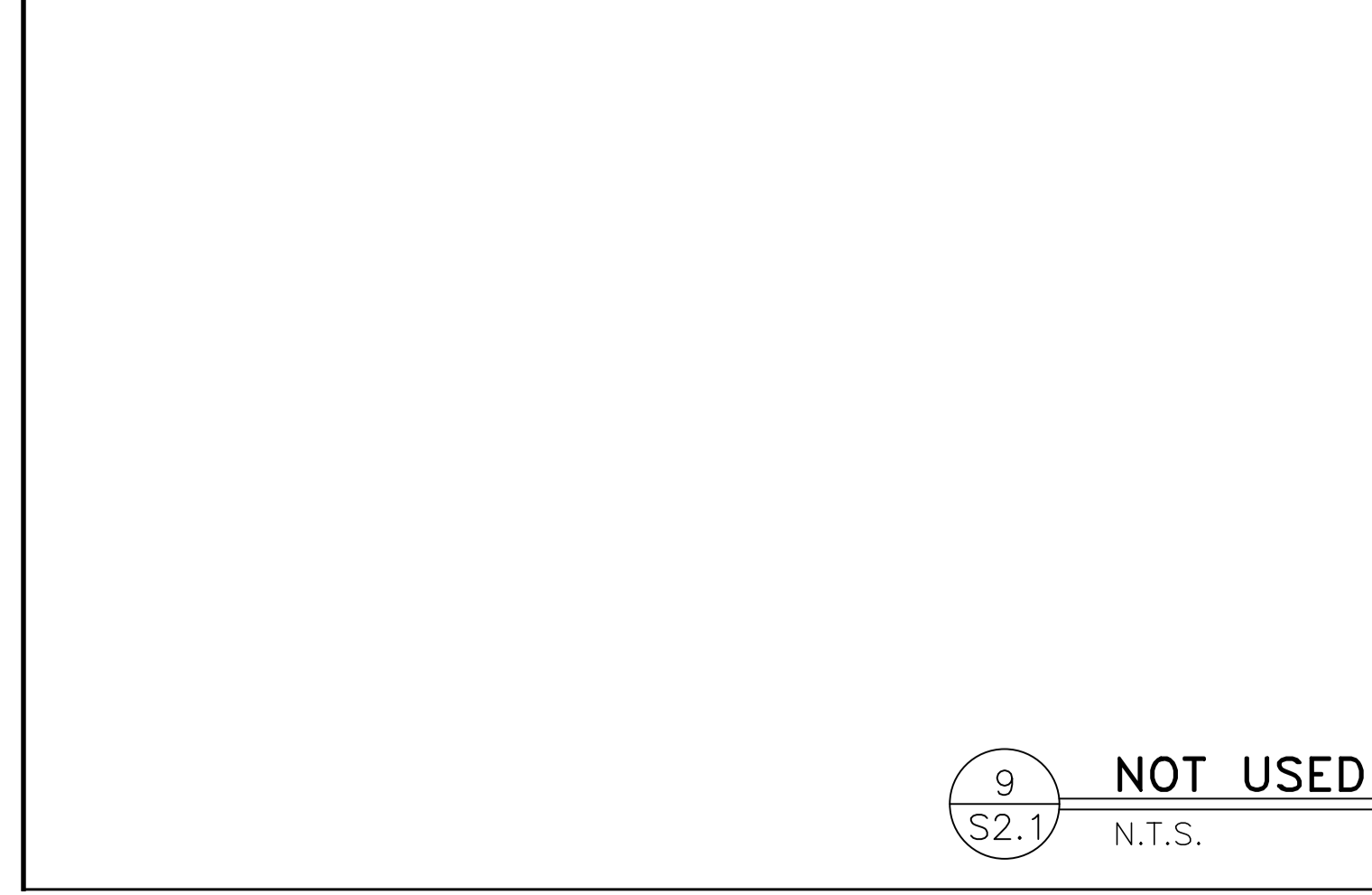
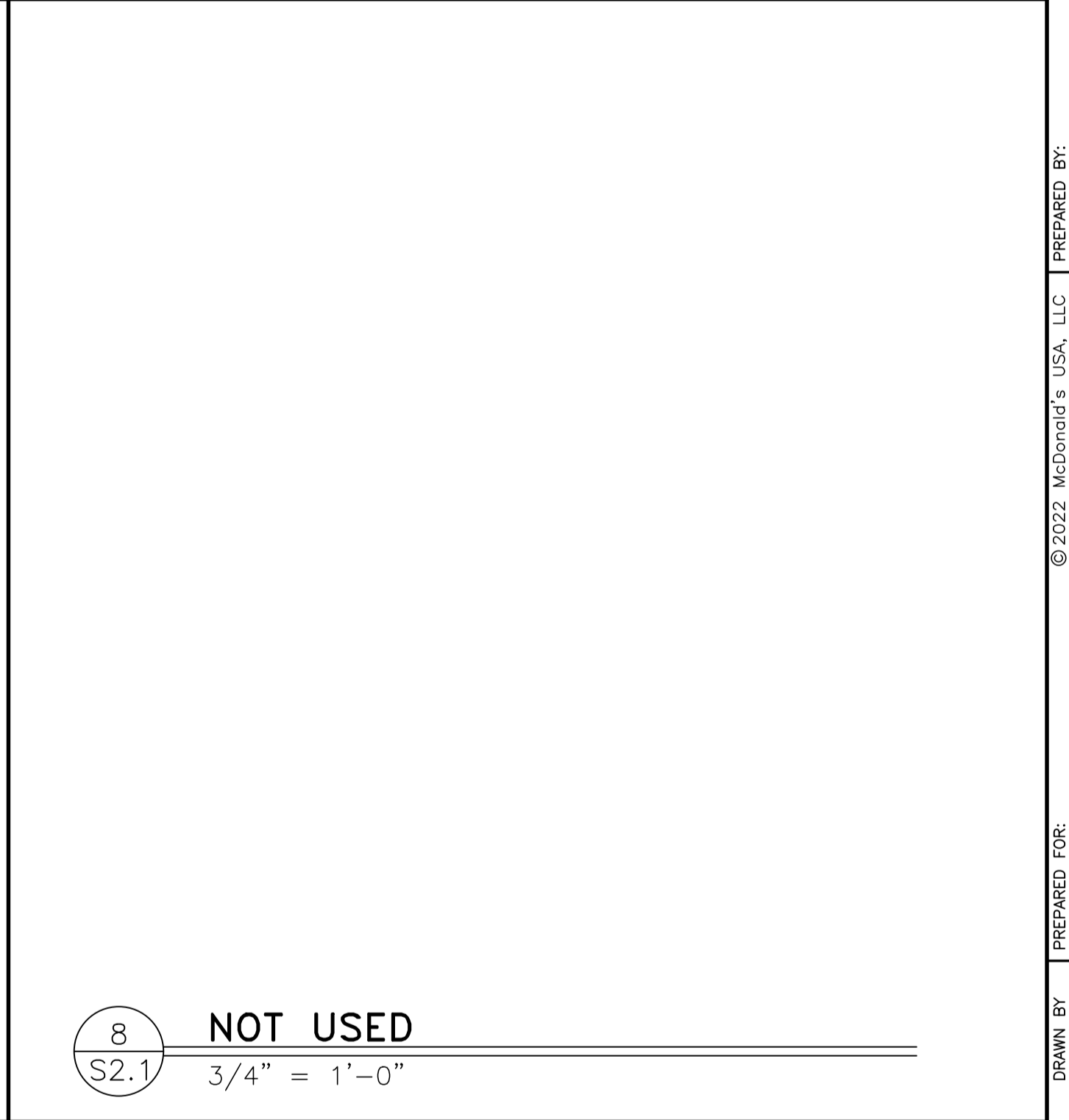
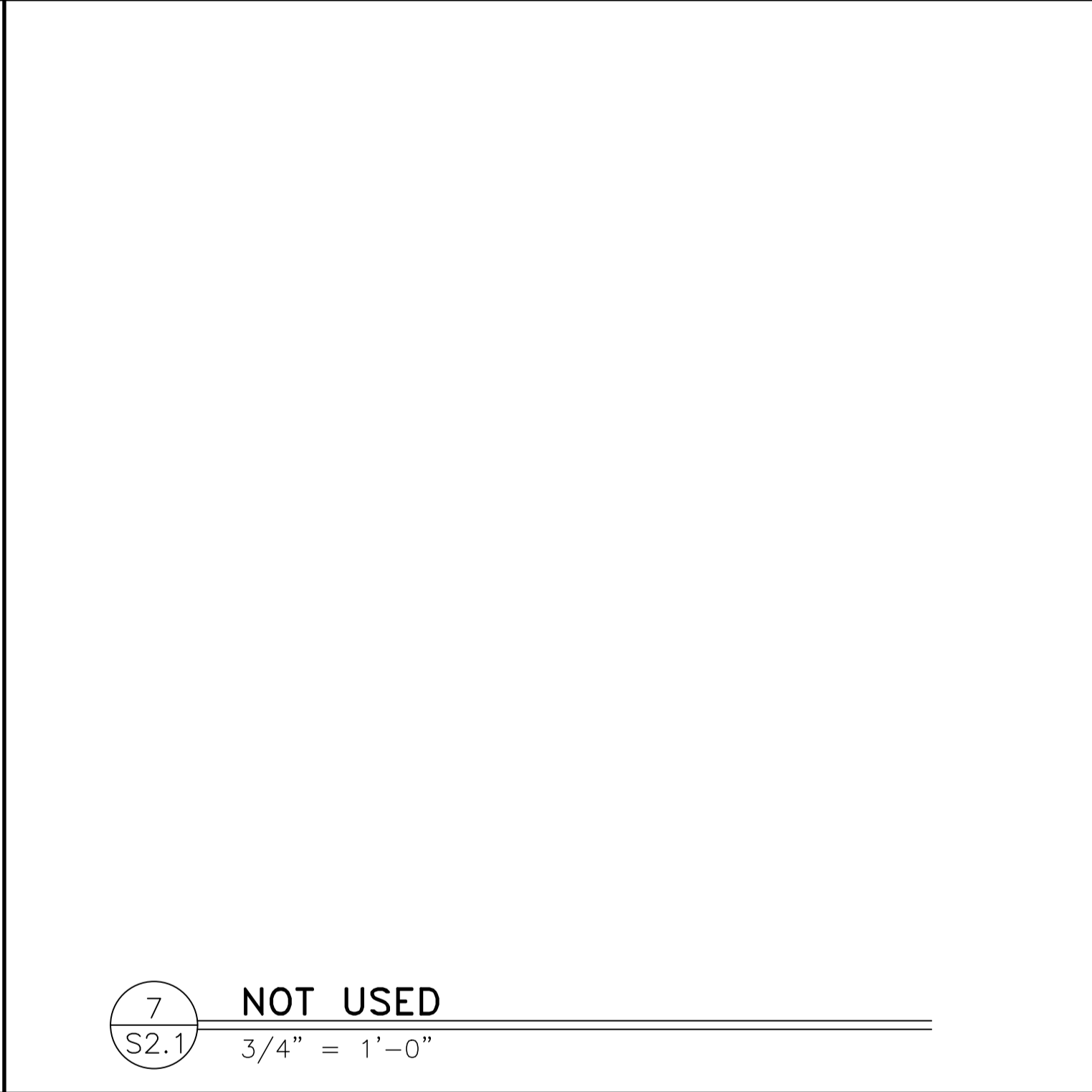
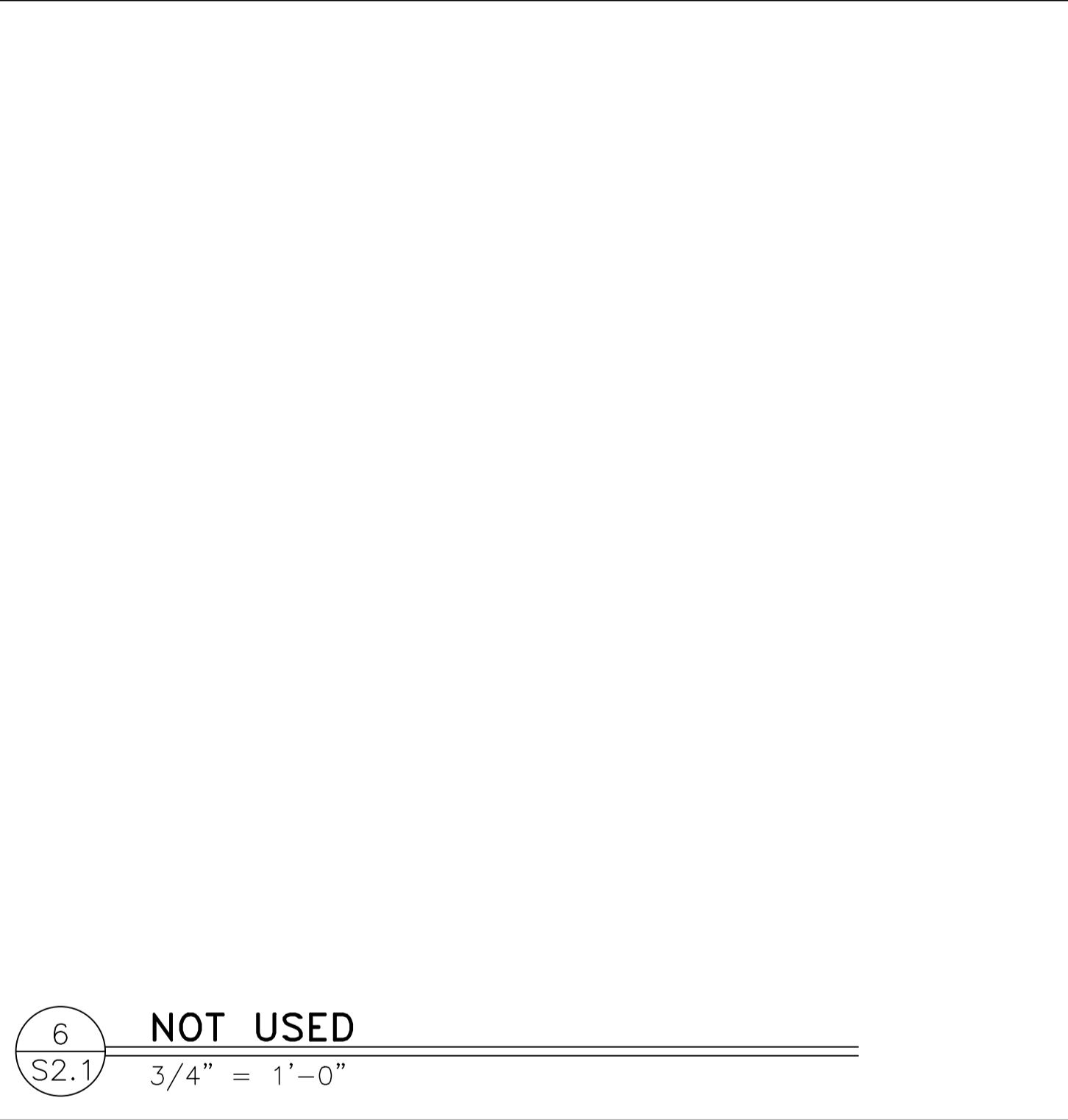
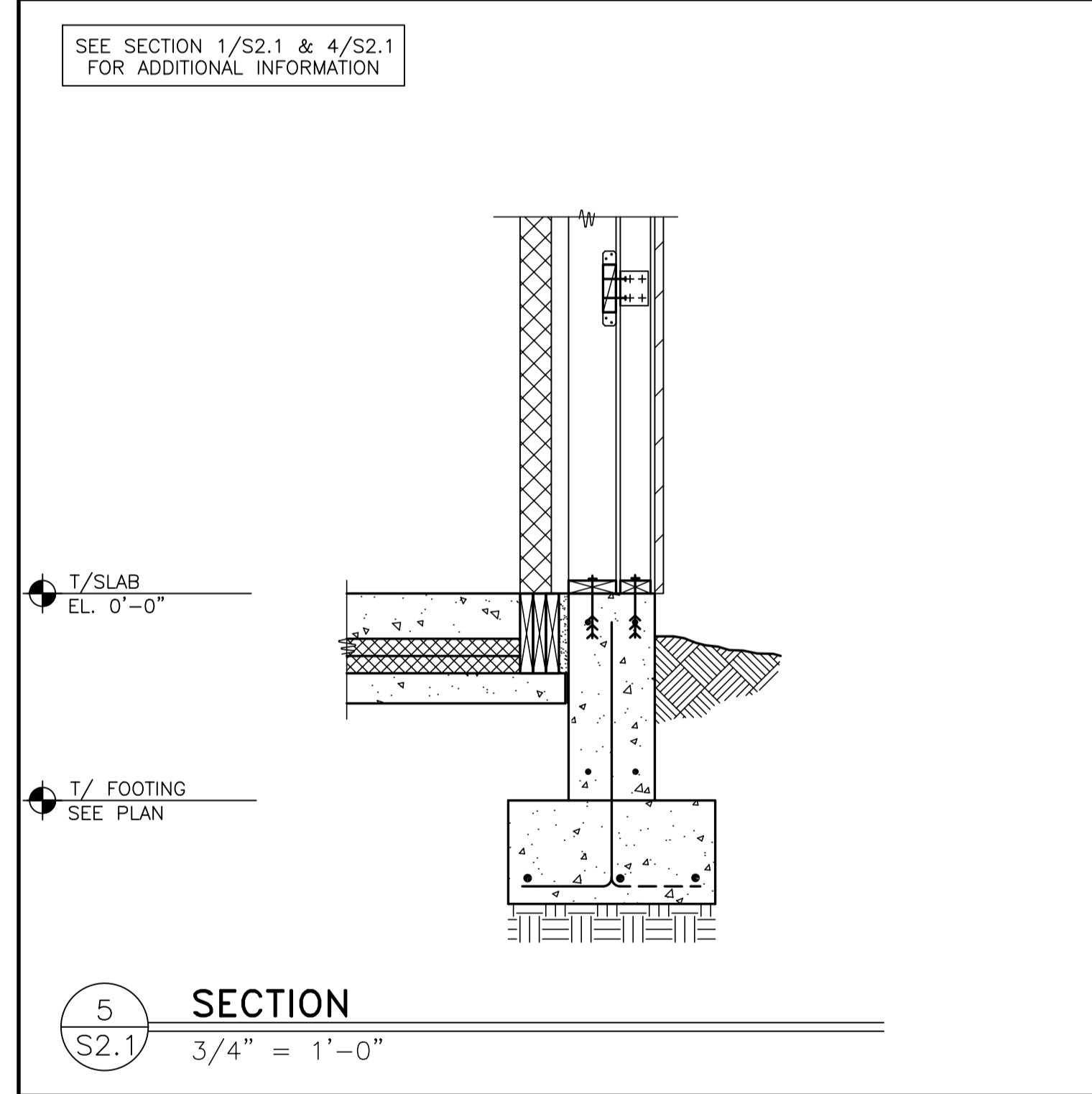
2 SECTION
S2.1 3/4" = 1'-0"



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



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



| | |
|--|--|
| DATE | 04/25/23 |
| REV | |
| DESCRIPTION | |
| | |
| | |
| <p>PREPARED BY: CORE STATES GROUP</p> <p>3015 Weber Avenue Amesbury, PA 19002 www.corestates.com</p> | |
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| DRAWN BY: | J.CARRAS |
| STD ISSUE DATE: | 2022-10 |
| REVIEWED BY: | J.PERRY |
| DATE ISSUED: | 10/04/2022 |
| C.S.G. PROJECT #: | MCD_35915 |
| TITLE: | 2022 STANDARD BUILDING - BB20 |
| DESCRIPTION: | 4597 - WOOD/WOOD |
| WOOD BEARING WALLS W/HARDBOARD SIDING | |
| WOOD ROOF TRUSS FRAMING | |
| E.L.F.S./BATTEN/HARDBOARD SIDING EXTERIOR FINISH | |
| SITE ADDRESS: | 3720 W Sunshine |
| SITE ID: | 024-1290 |
| 024-1290.00.0 | Springfield, MO |
| SHEET NO.: | S2.1 |
| FOUNDATION SECTIONS | |

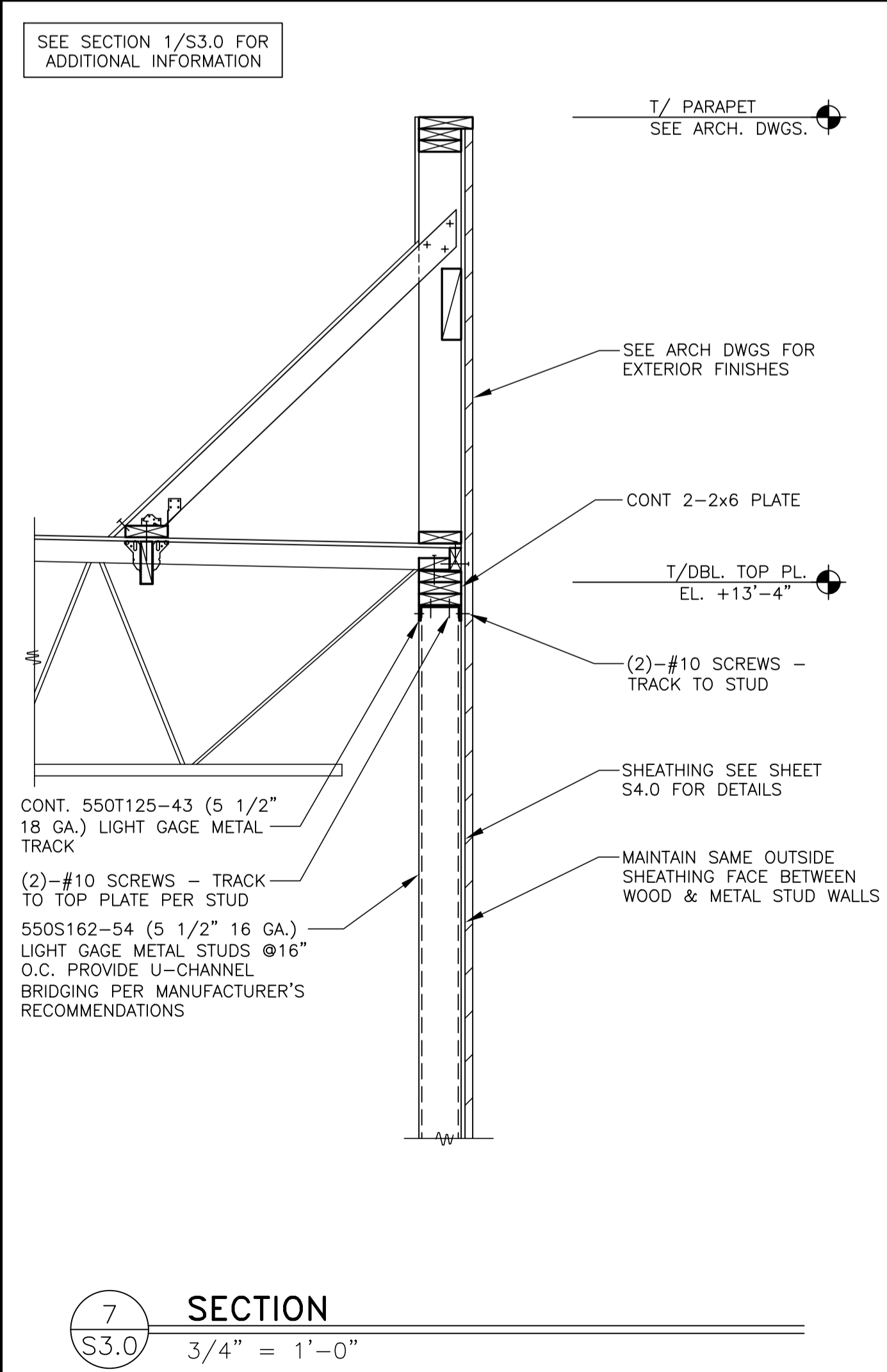
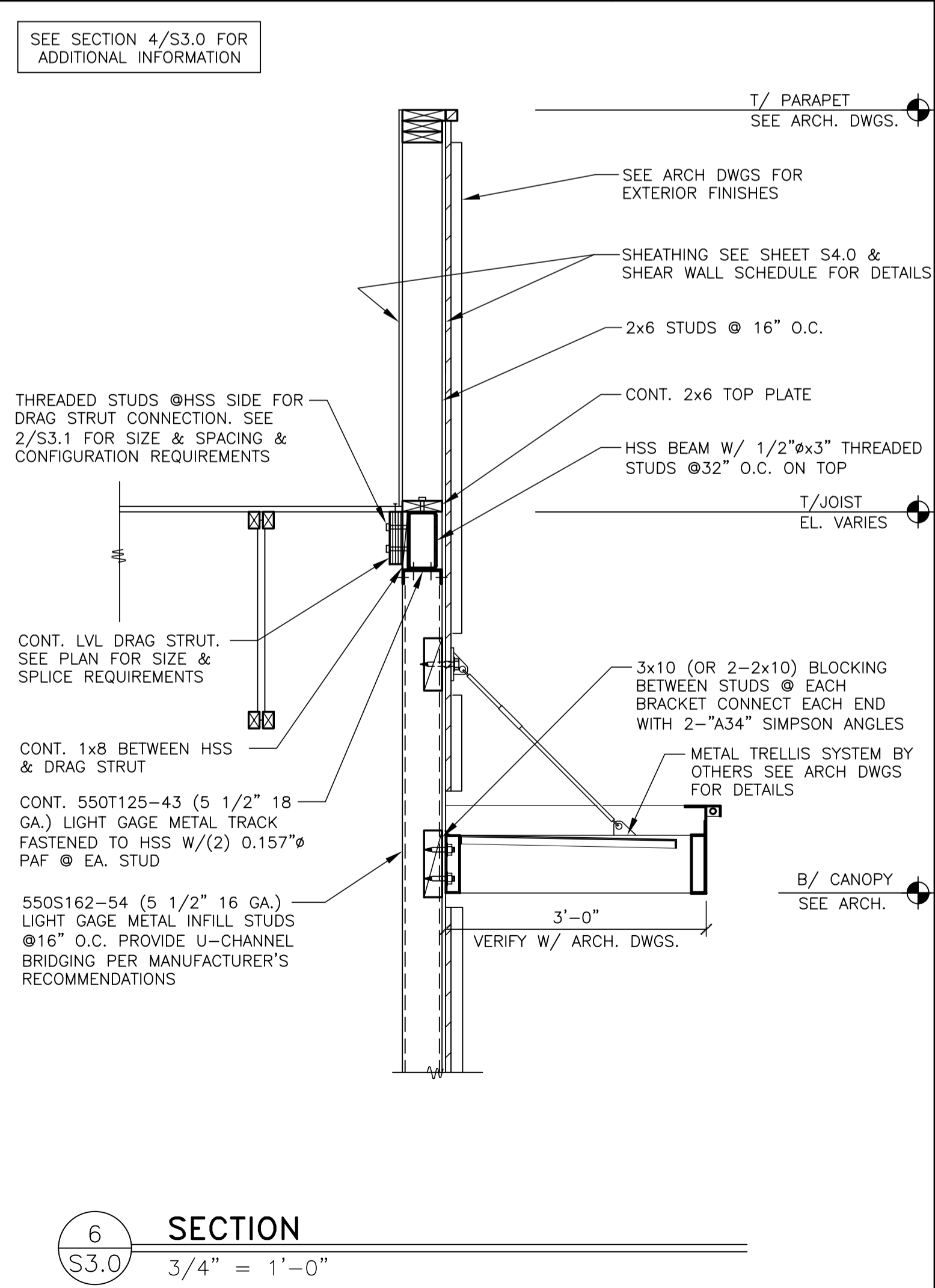
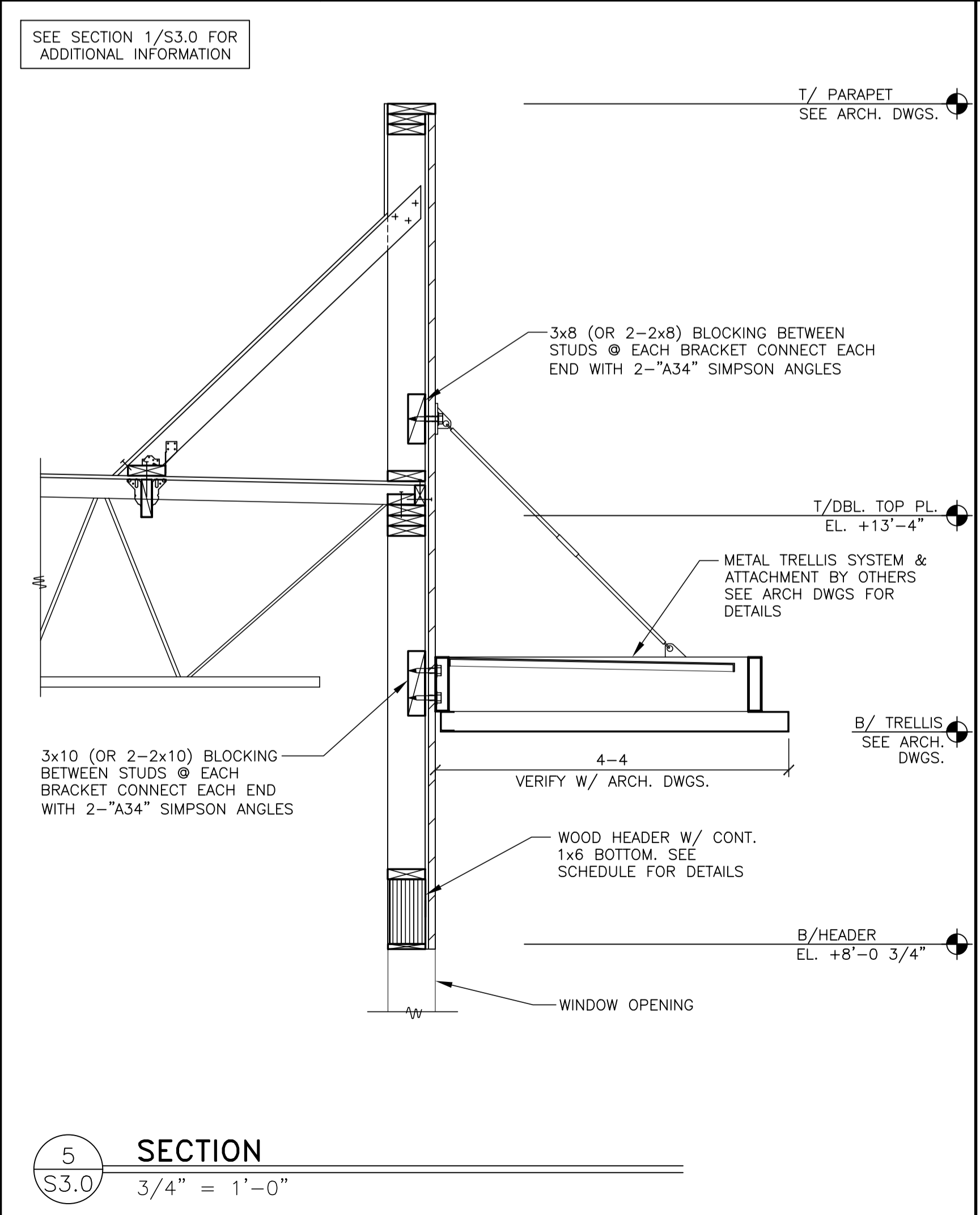
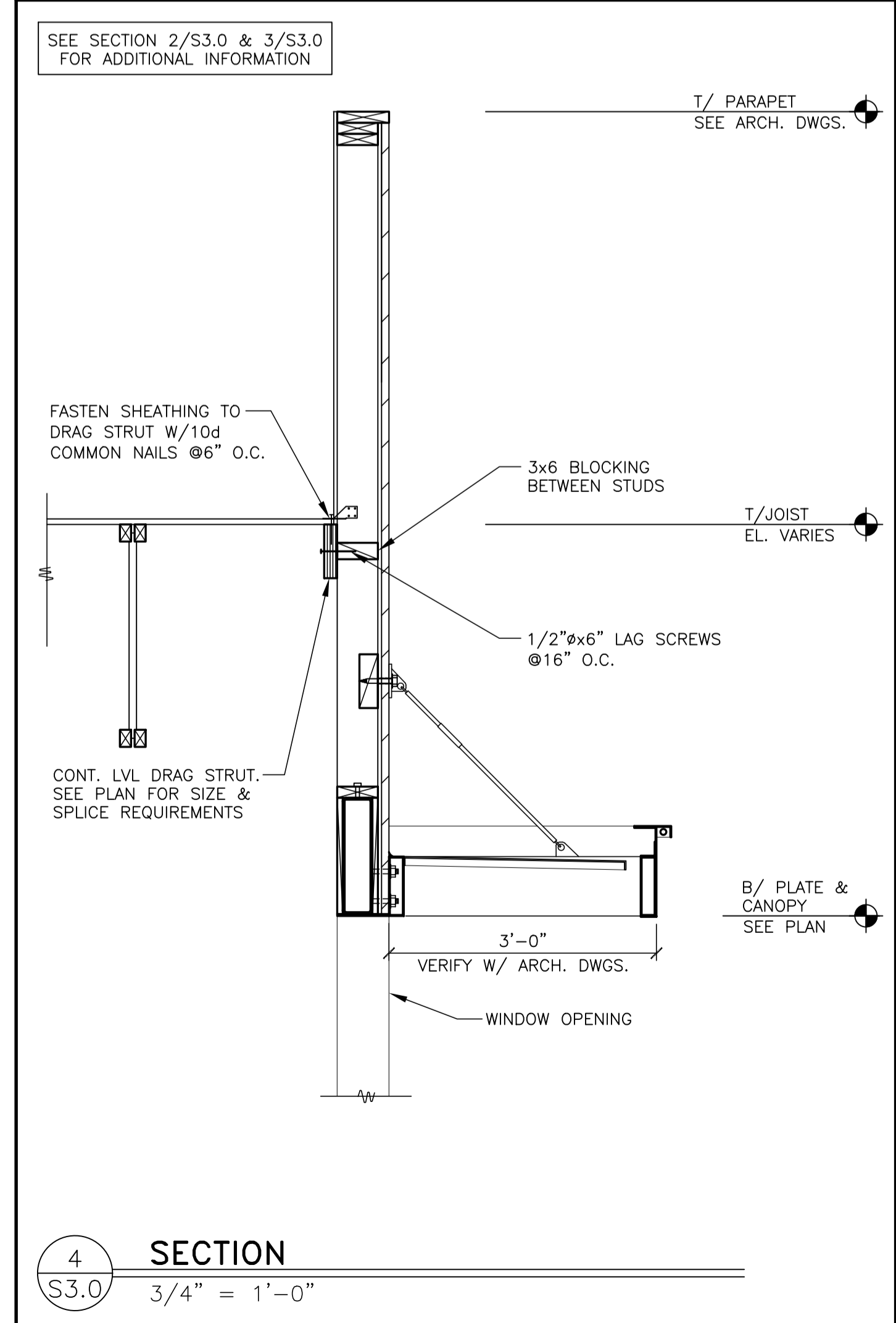
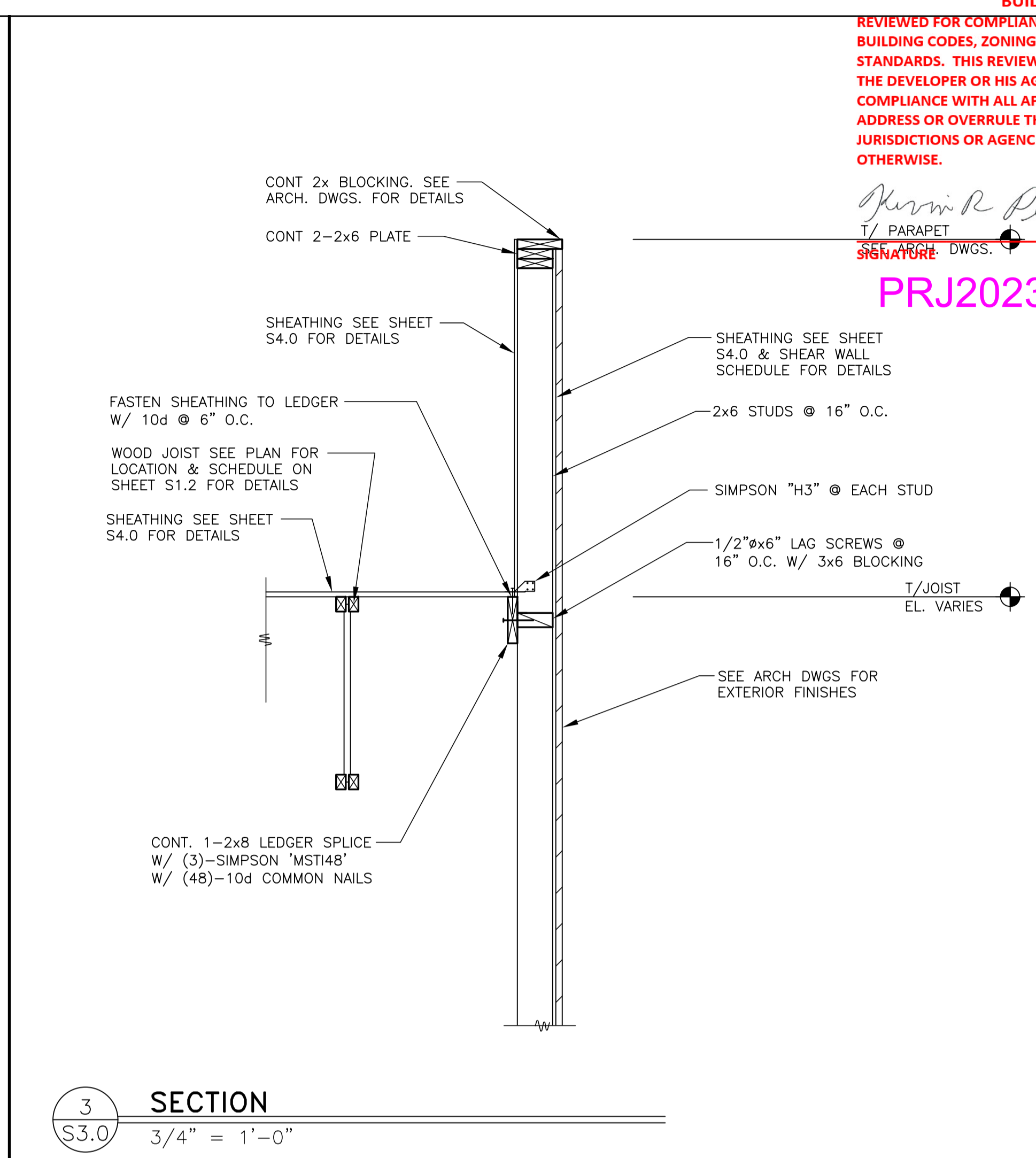
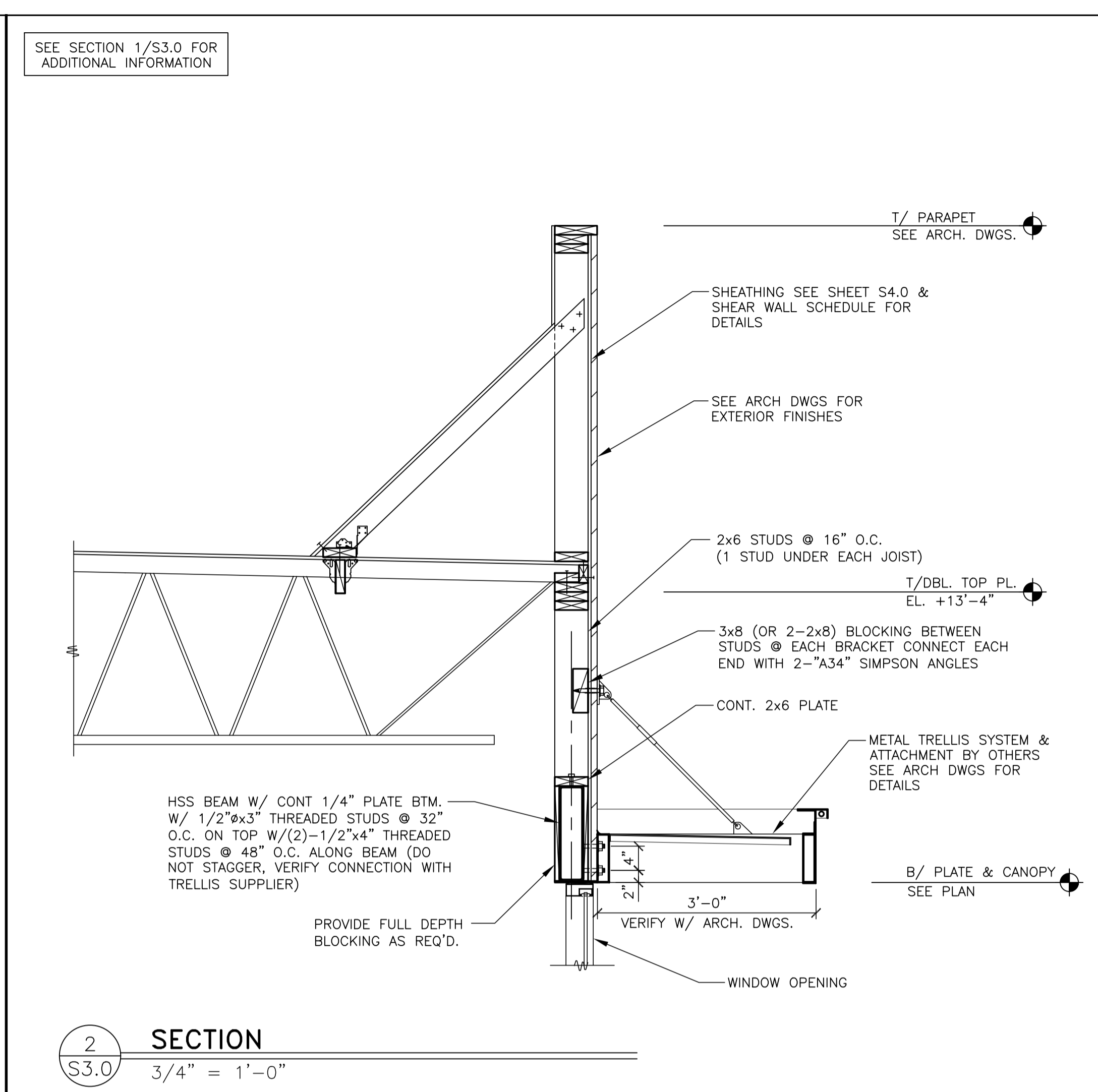
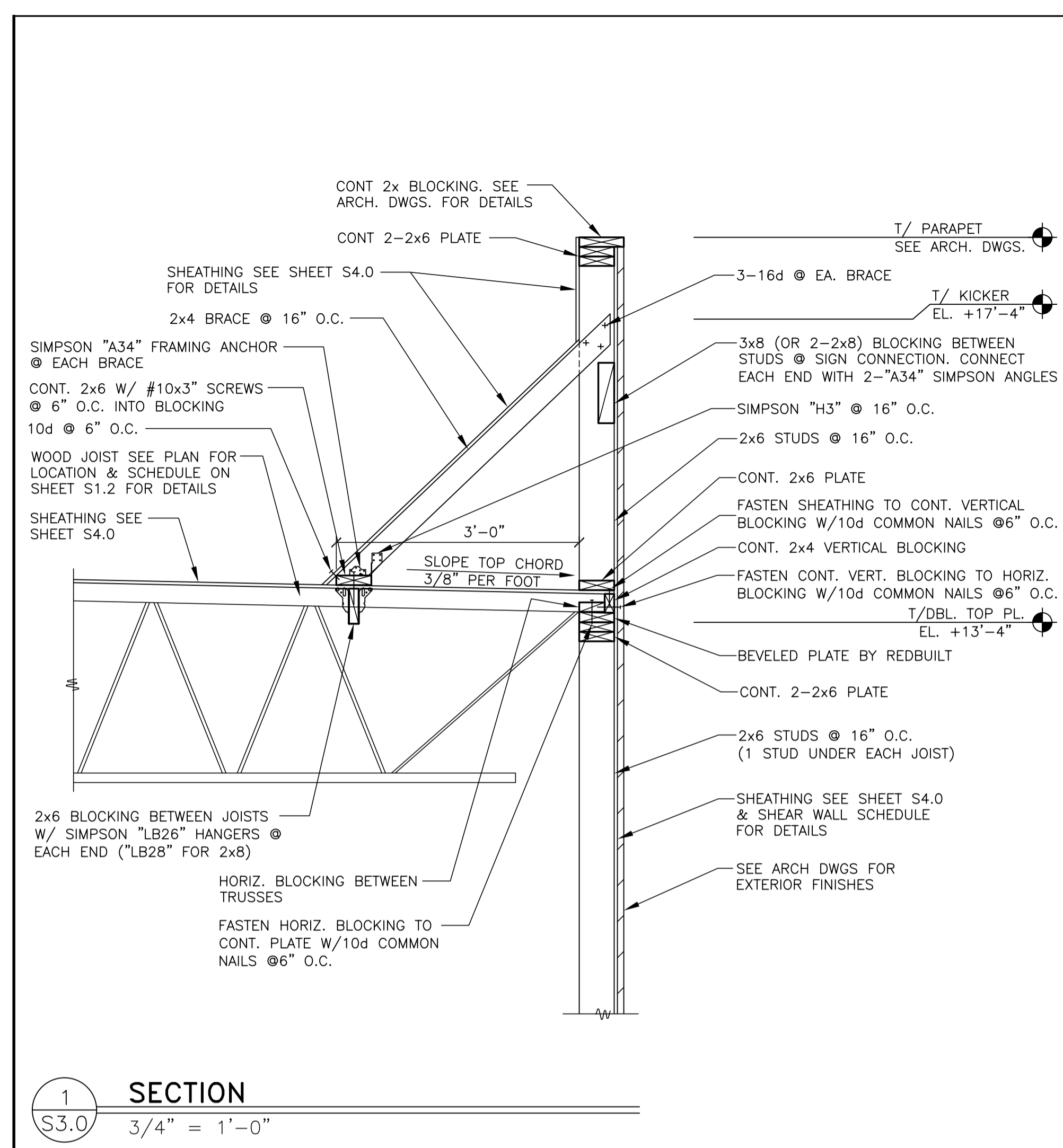
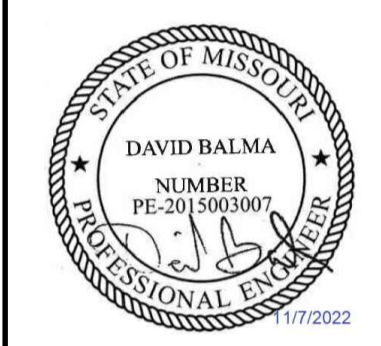
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Kevin R. Davis
T/ PARAPET
SEE ARCH. DWGS.
SIGNATURE

04/25/23
DATE

PRJ2023-00032

| NO. | REV | DATE | DESCRIPTION |
|-----|-----|------|-------------|
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PREPARED FOR: McDonald's USA, LLC
DRAWN BY: J.CARRAS
STD ISSUE DATE: 2022-10
REVIEWED BY: J.PERRY
DATE ISSUED: 10 04 2022
C.S.G. PROJECT # MCD_35915

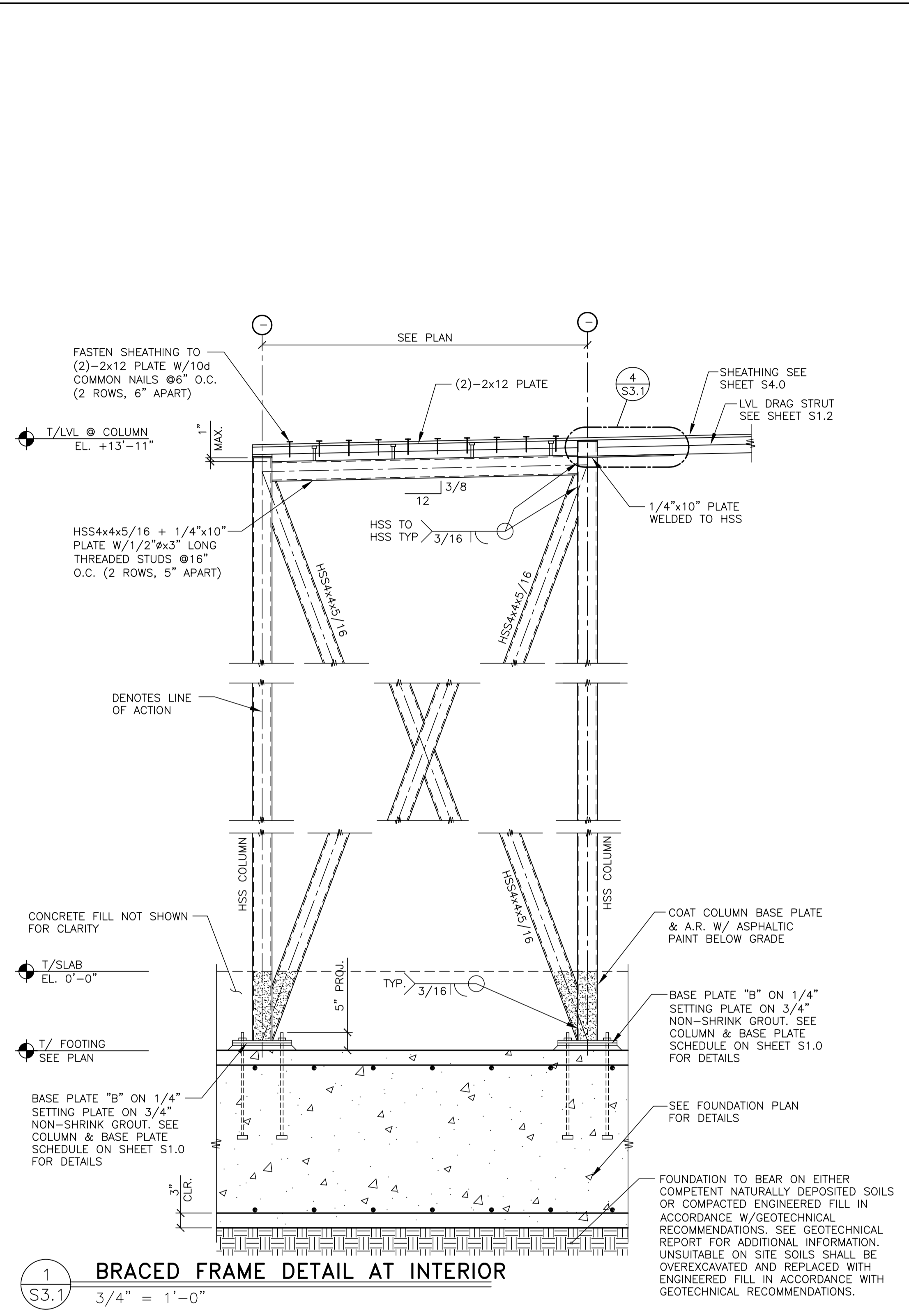
TITLE: 2022 STANDARD BUILDING - BB20
DESCRIPTION: 4597 - WOOD/WOOD
WOOD BEARING WALLS W/HARDBOARD SIDING
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E.L.F.S./BATTEN/HARDBOARD SIDING EXTERIOR FINISH
SITE ADDRESS: 3720 W Sunshine
Springfield, MO

024-1290.00.0
S3.0
FRAMING SECTIONS

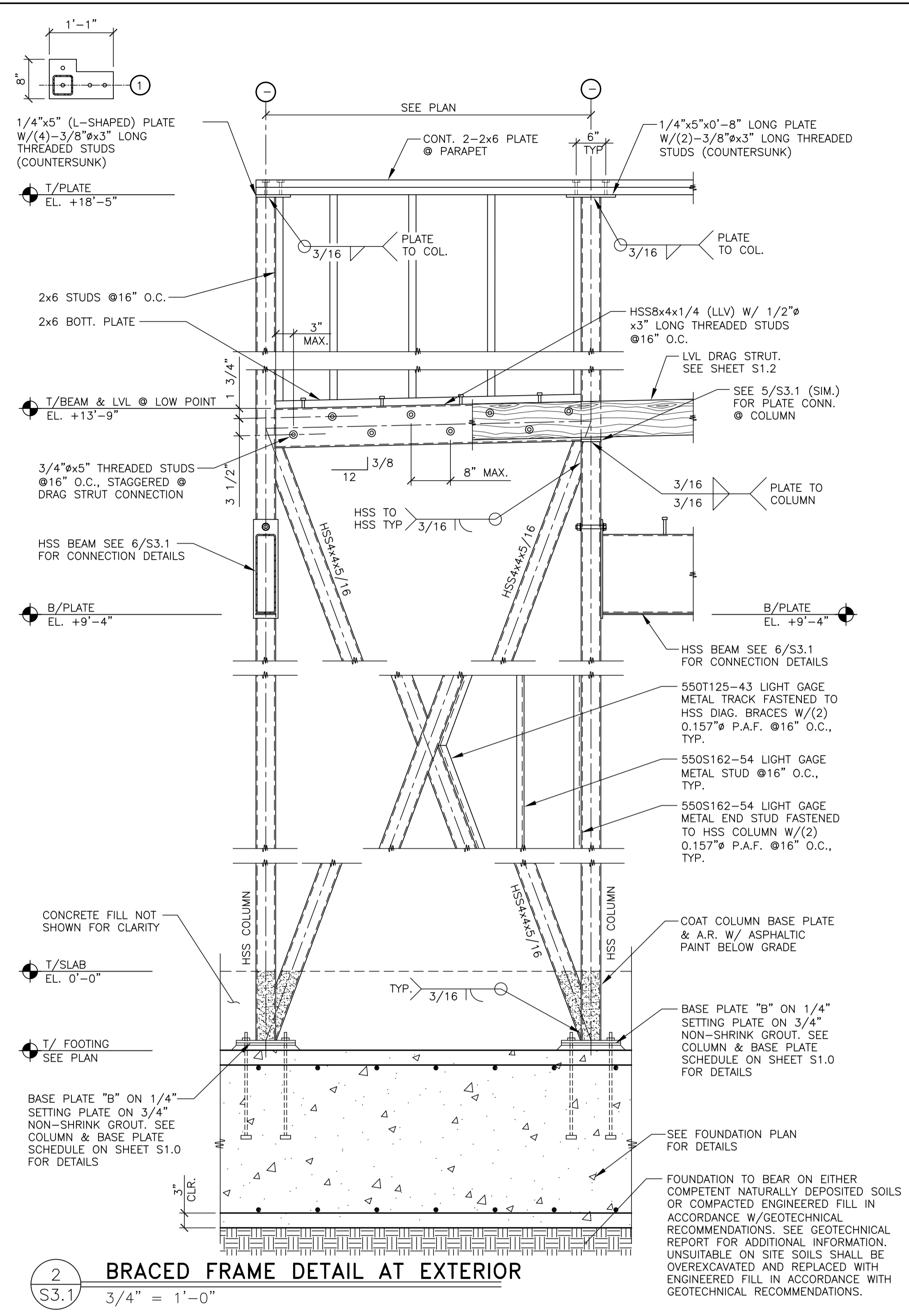
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Signature: *Kevin R. Davis* DATE: 04/25/23

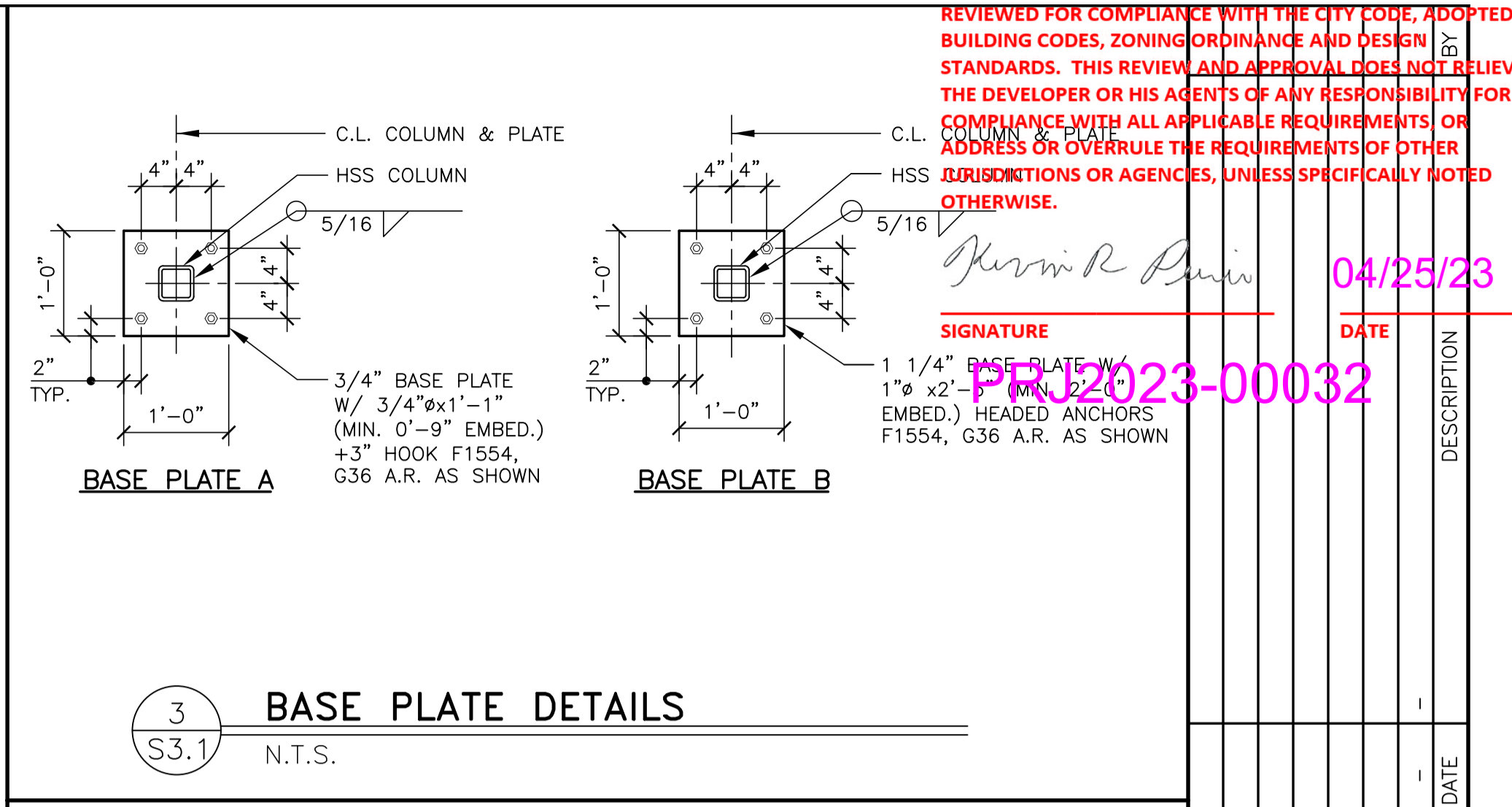
PROJECT: 2023-00032



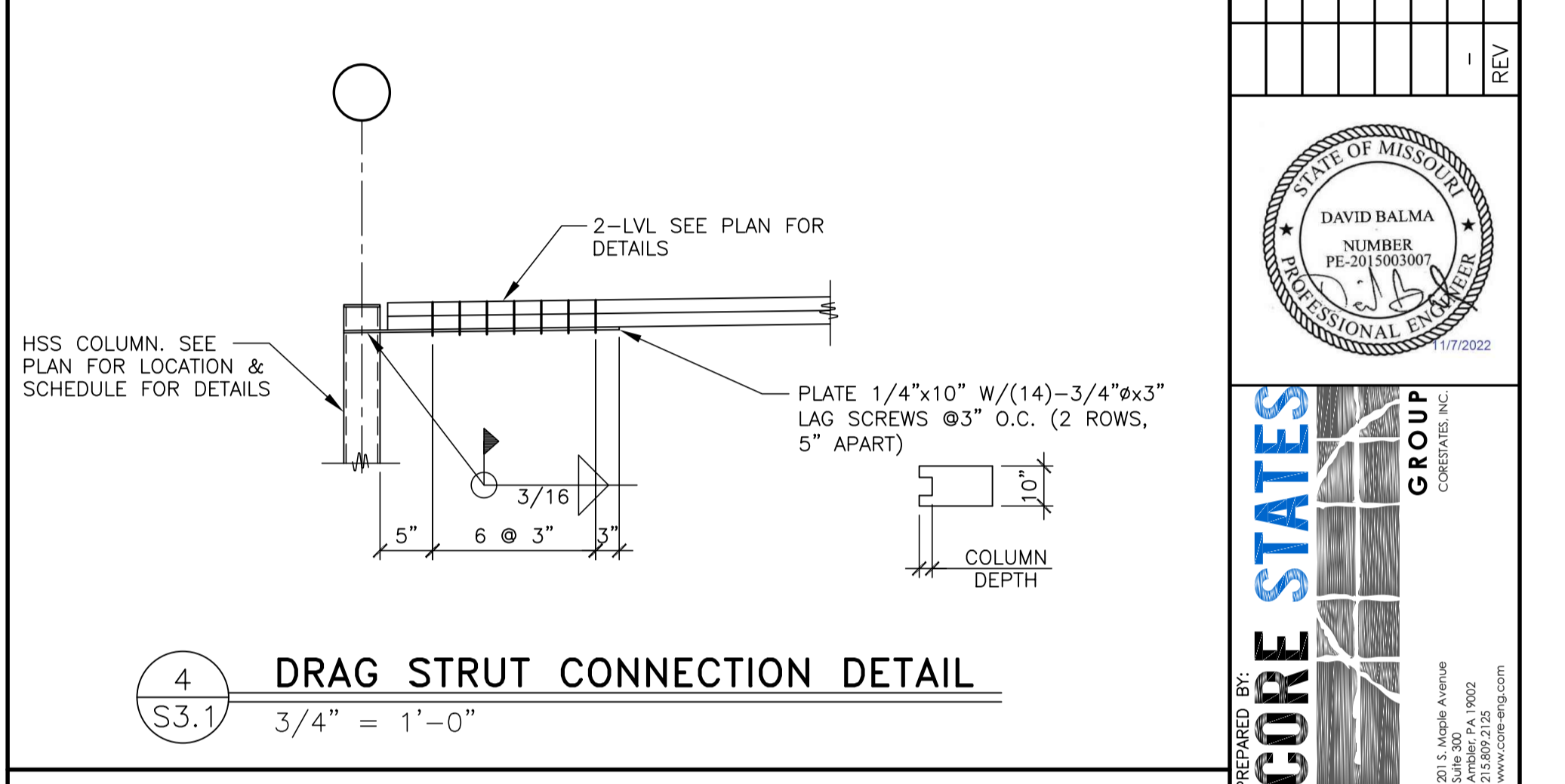
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S3.1 3/4" = 1'-0"



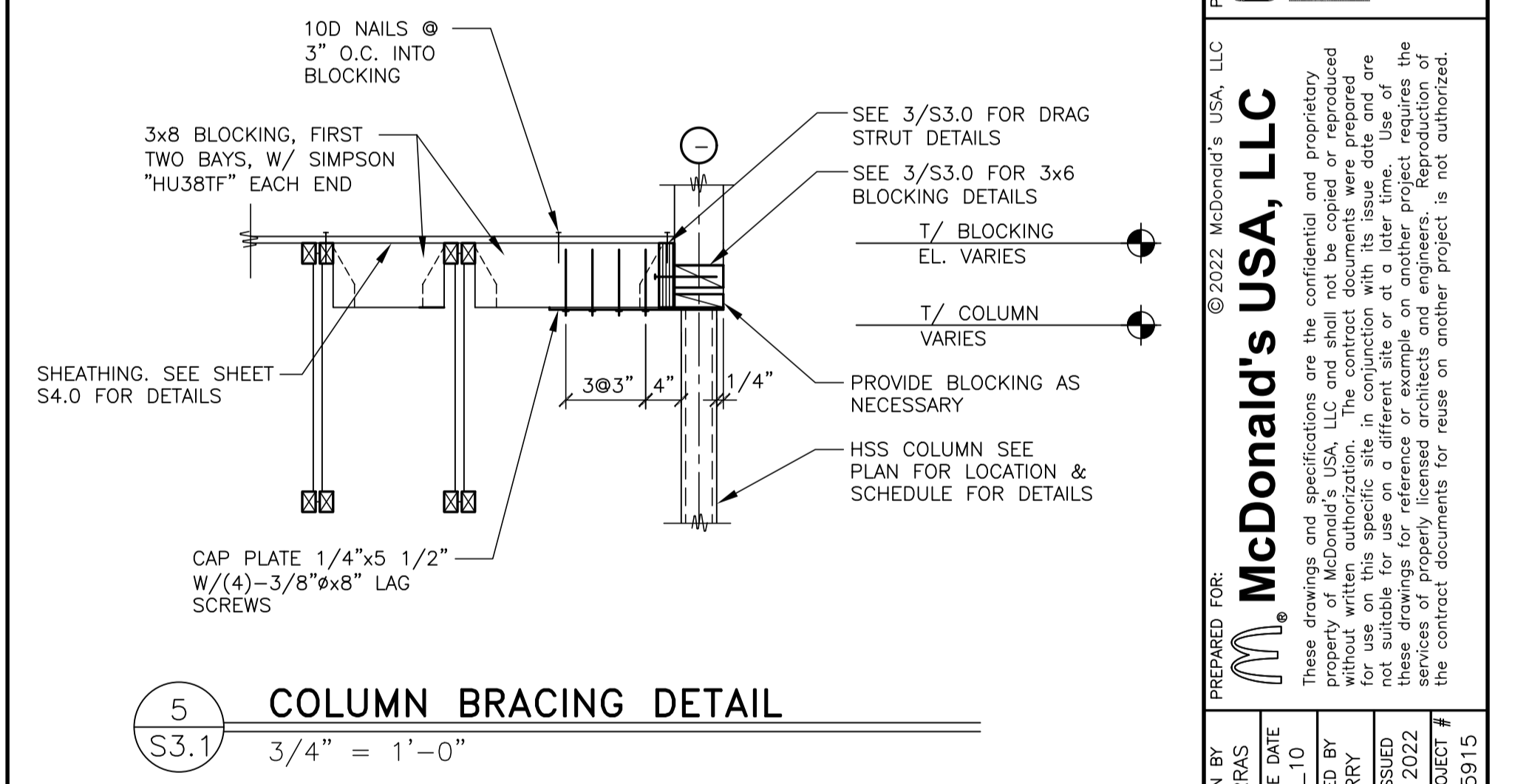
2 BRACED FRAME DETAIL AT EXTERIOR
S3.1 3/4" = 1'-0"



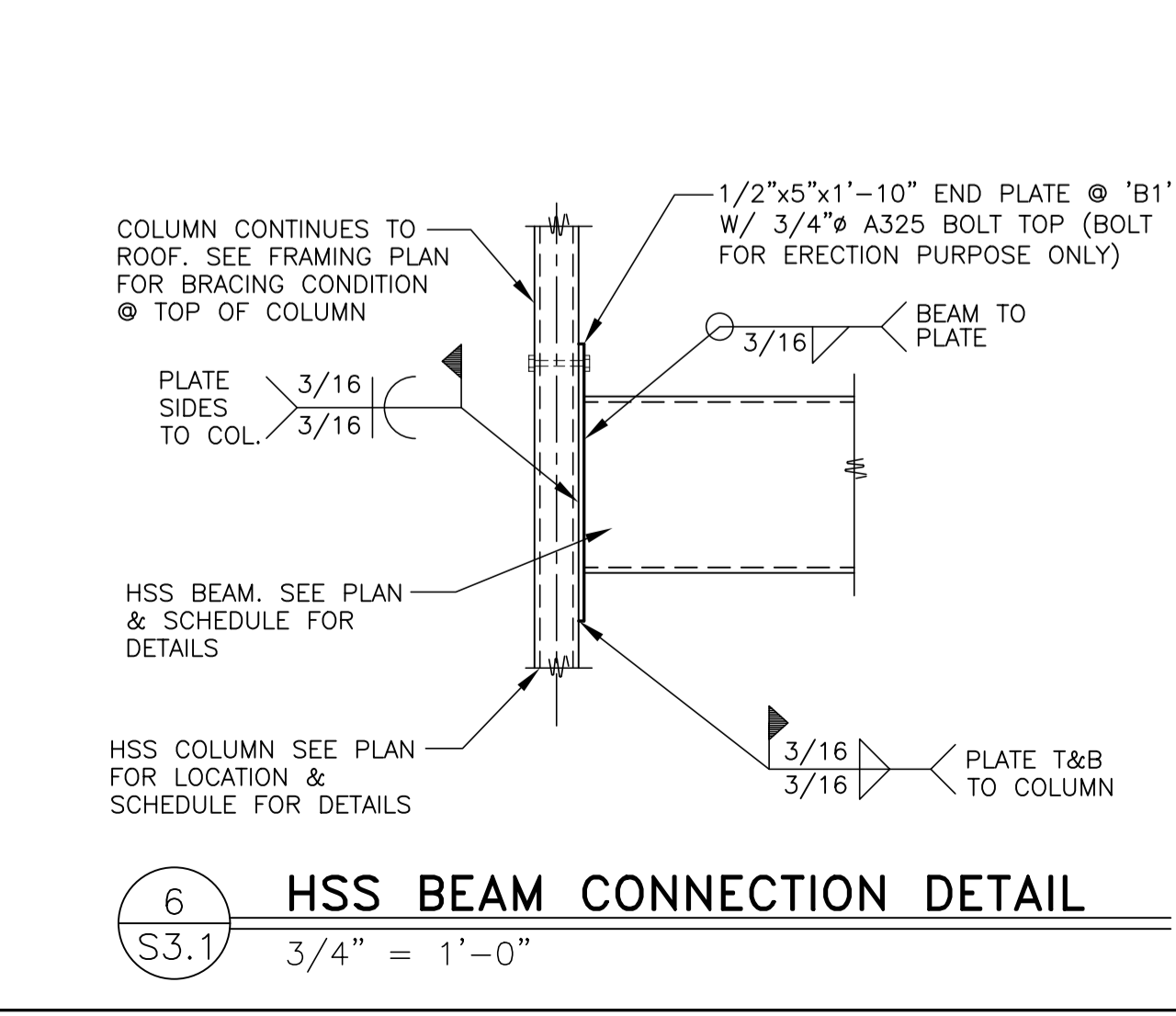
3 BASE PLATE DETAILS
S3.1 N.T.S.



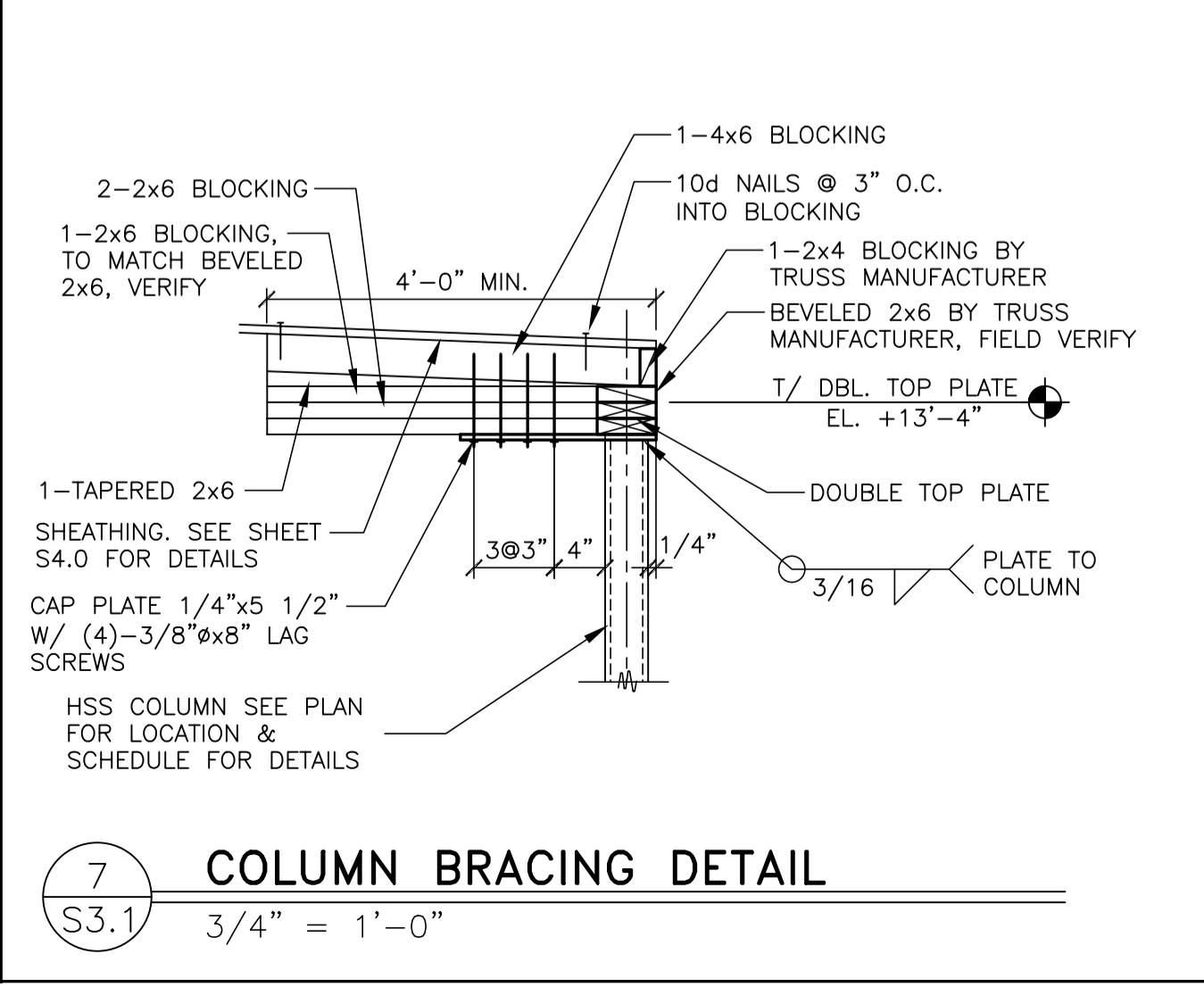
4 DRAG STRUT CONNECTION DETAIL
S3.1 3/4" = 1'-0"



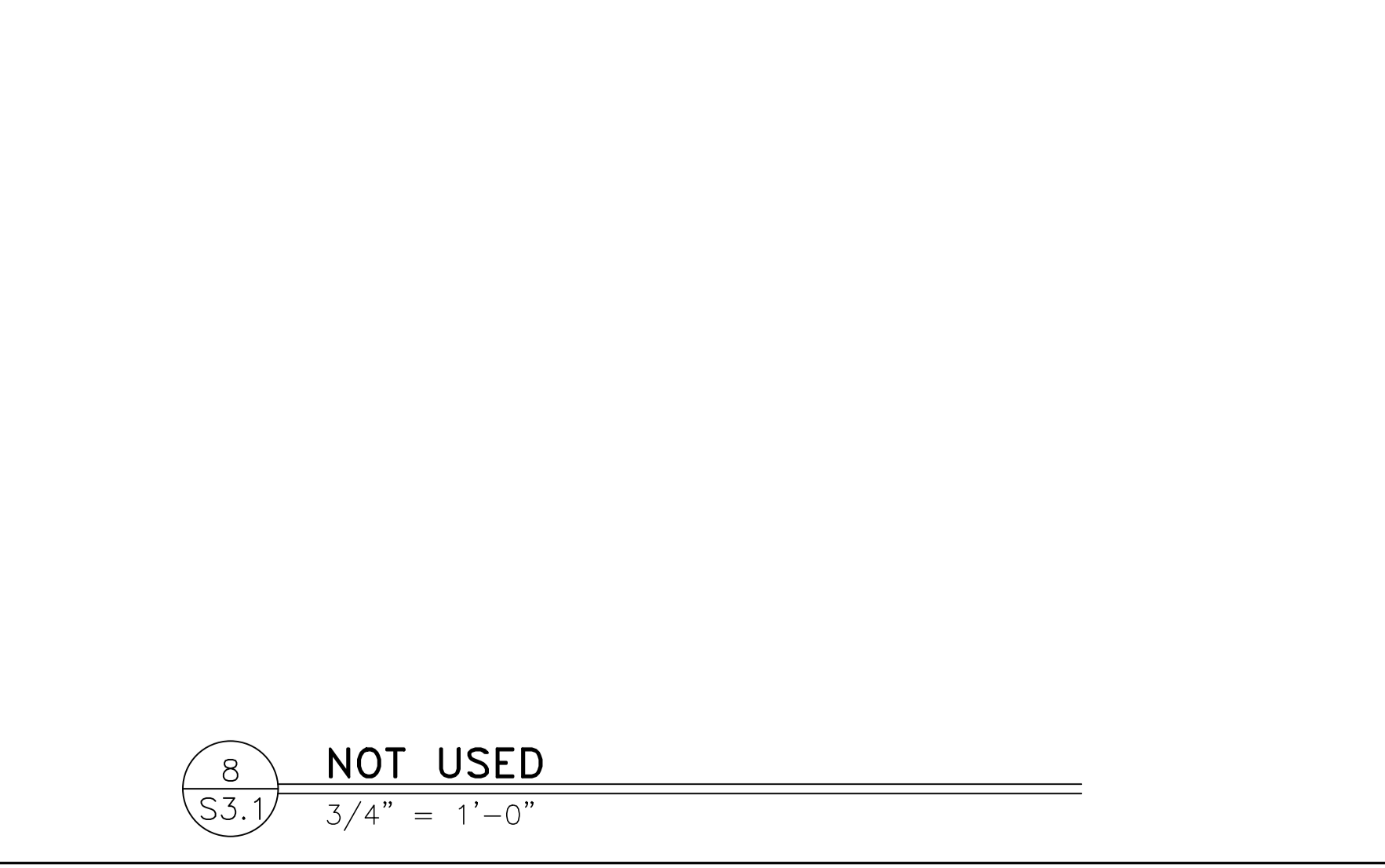
5 COLUMN BRACING DETAIL
S3.1 3/4" = 1'-0"



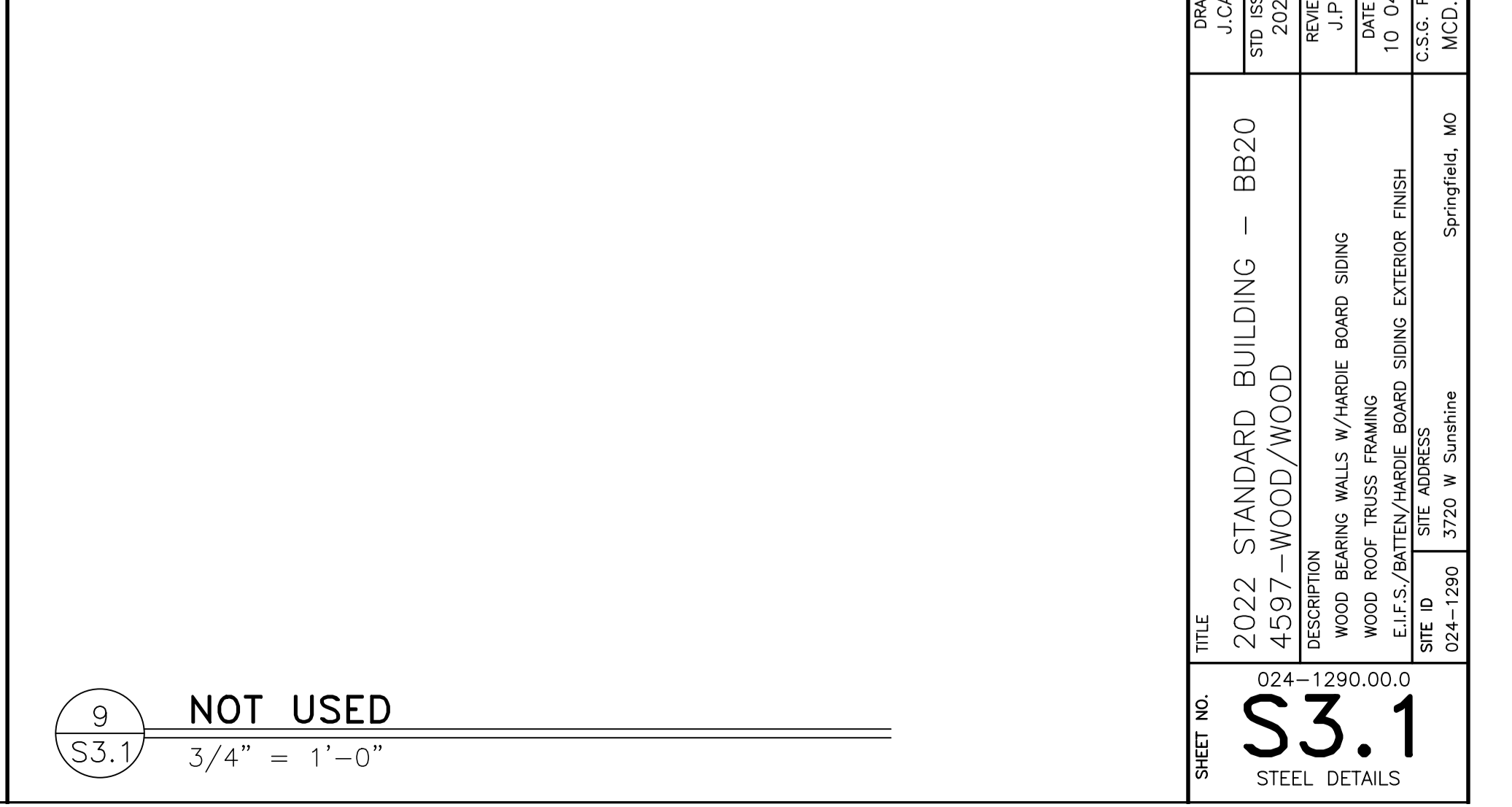
6 HSS BEAM CONNECTION DETAIL
S3.1 3/4" = 1'-0"



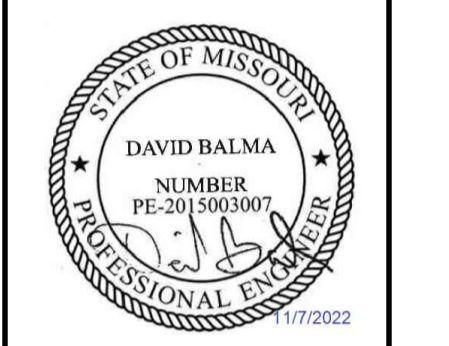
7 COLUMN BRACING DETAIL
S3.1 3/4" = 1'-0"



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



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

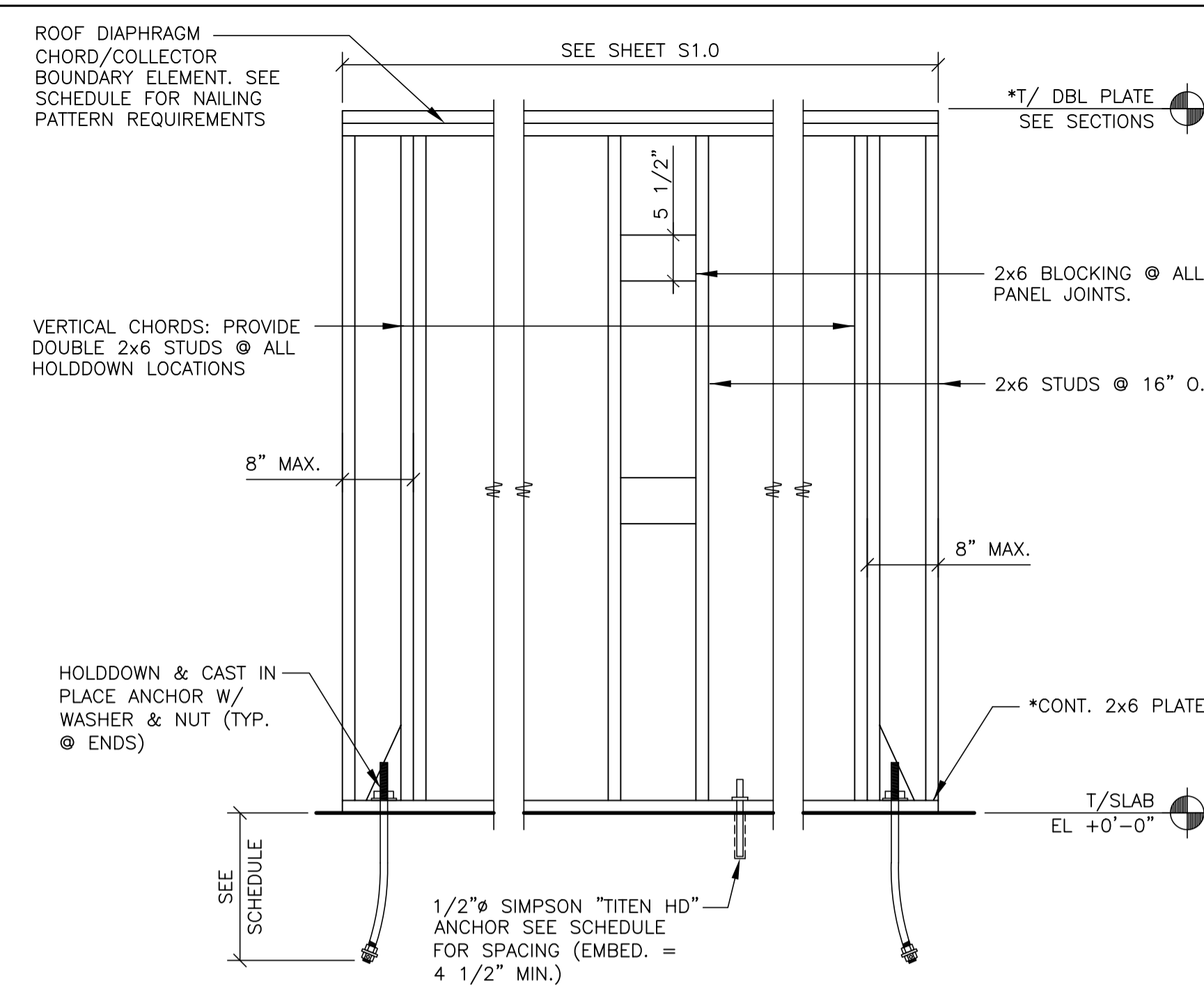


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|--------------------------------------|-------------------------------|--|--------------------------------------|--|-----------------|
| DRAWN BY: J.CARRAS | DATE: 2022-10 | REVIEWED BY: J.PERRY | DATE ISSUED: 10/04/2022 | C.S.G. PROJECT # | MCD_35915 |
| TITLE: 2022 STANDARD BUILDING - BB20 | DESCRIPTION: 4597 - WOOD/WOOD | DESCRIPTION: WOOD BEARING WALLS W/HARDBOARD SIDING | DESCRIPTION: WOOD ROOF TRUSS FRAMING | SITE ADDRESS: E.L.F.S./BATTEN/HARDBOARD SIDING EXTERIOR FINISH | SPRINGFIELD, MO |
| SHEET NO. S3.1 | 024-1290.00.0 | STEEL DETAILS | | | |

REVIEWED FOR COMPLIANCE WITH THE CITY CODE, ADOPTED BUILDING CODES, ZONING ORDINANCE AND DESIGN STANDARDS. THIS REVIEW AND APPROVAL DOES NOT RELIEVE THE DEVELOPER OR HIS AGENTS OF ANY RESPONSIBILITY FOR COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OR ADDRESS OR OVERRULE THE REQUIREMENTS OF OTHER JURISDICTIONS OR AGENCIES, UNLESS SPECIFICALLY NOTED OTHERWISE.

SIGNATURE: *Kevin R. Davis* DATE: 04/25/23
 PRJ2023-00032



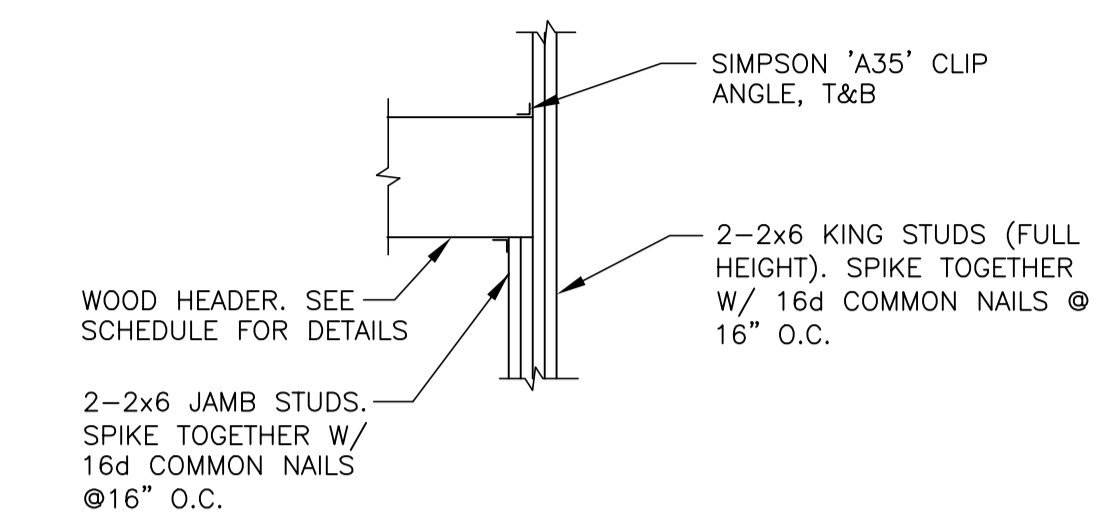
SHEAR WALL SCHEDULE

WIND: 110 MPH (EXPOSURE B) SEISMIC: Sds = 16.0%, Sd1 = 10.3%

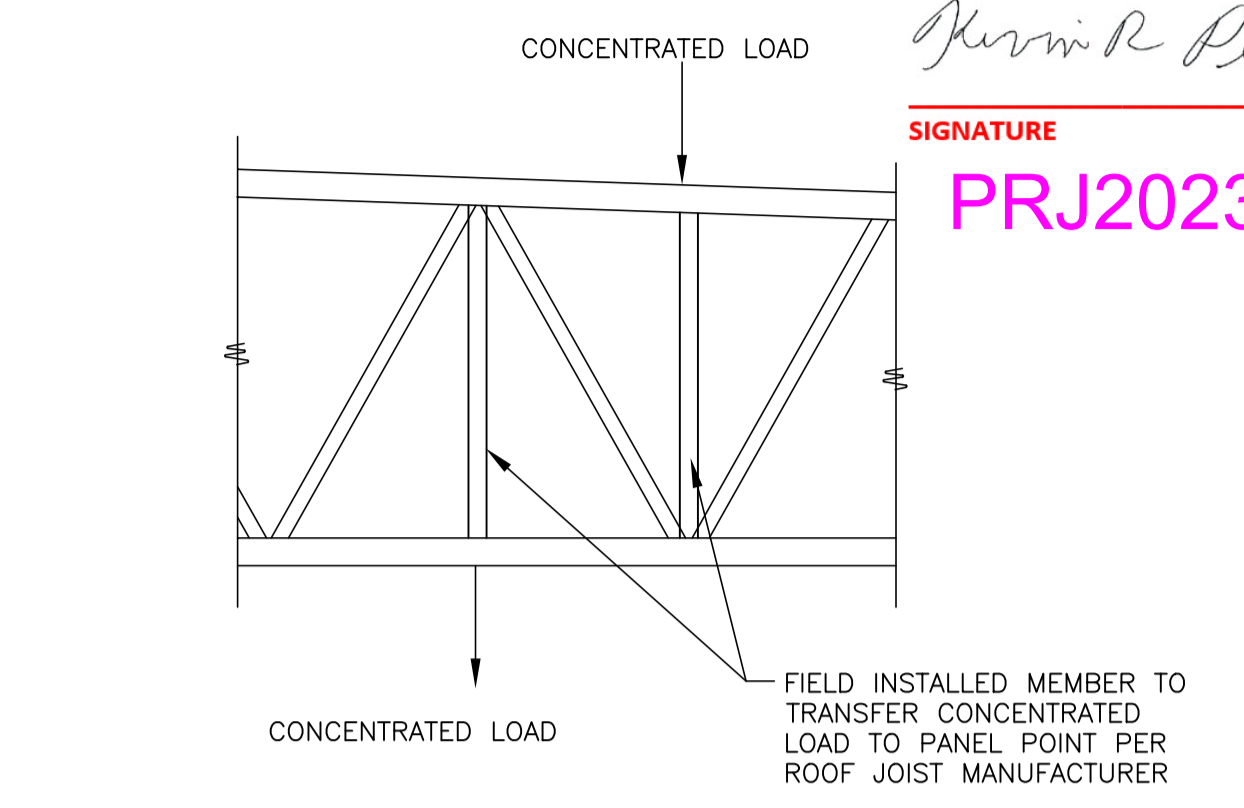
| MARK | SHEATHING | SHEATHING NAIL SIZE | SHEATHING NAIL** SPACING @ PANEL EDGES | HOLDDOWN*** ANCHORS | ANCHOR BOLT SPACING | REMARKS |
|------|-----------|---------------------|--|--|---------------------|--------------------------------------|
| A | 1-15/32" | 8d | 6" | 1-HDU5-SDS2.5 W/(1) SB5/8x24" PRECAST ANCHOR | 48" | 18" MIN. EMBED. ON HOLDDOWN ANCHORS. |
| B | 1-15/32" | 8d | 6" | 1-HDU5-SDS2.5 W/(1) SB5/8x24" PRECAST ANCHOR | 48" | 18" MIN. EMBED. ON HOLDDOWN ANCHORS. |
| C | 1-15/32" | 8d | 6" | 1-HDU5-SDS2.5 W/(1) SB5/8x24" PRECAST ANCHOR | 48" | 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.

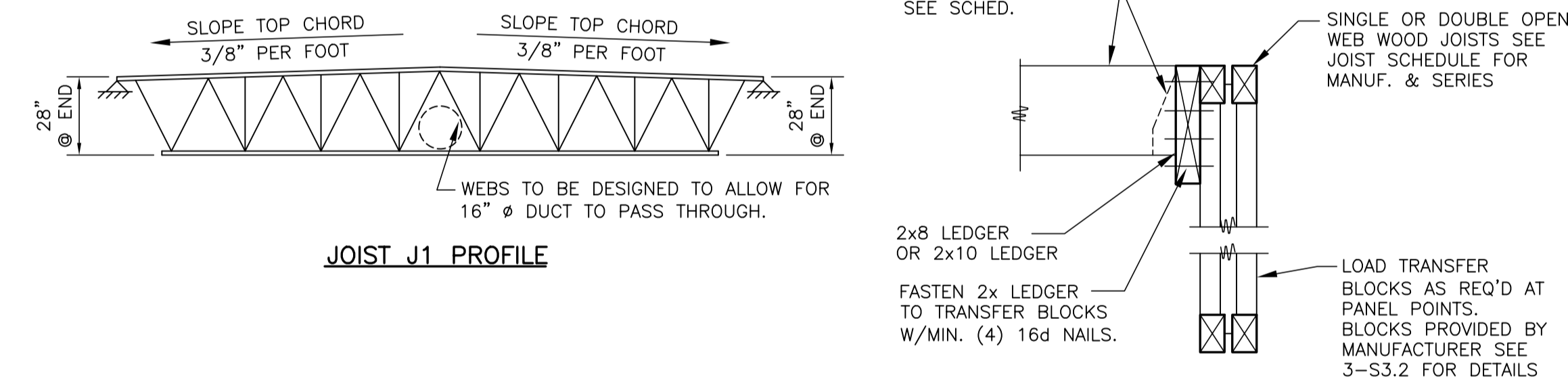


2 HEADER SUPPORT DETAIL
 S3.2 N.T.S.



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 |
|--------|----------|
| 2x6 | 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
- ALL JOISTS SHALL BE DESIGNED FOR THE FOLLOWING NET UPLIFT. 110 MPH (BASIC) - 5 PSF SERVICE (ASD: 0.6D + 0.6W)



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

DRIFT WIDTH

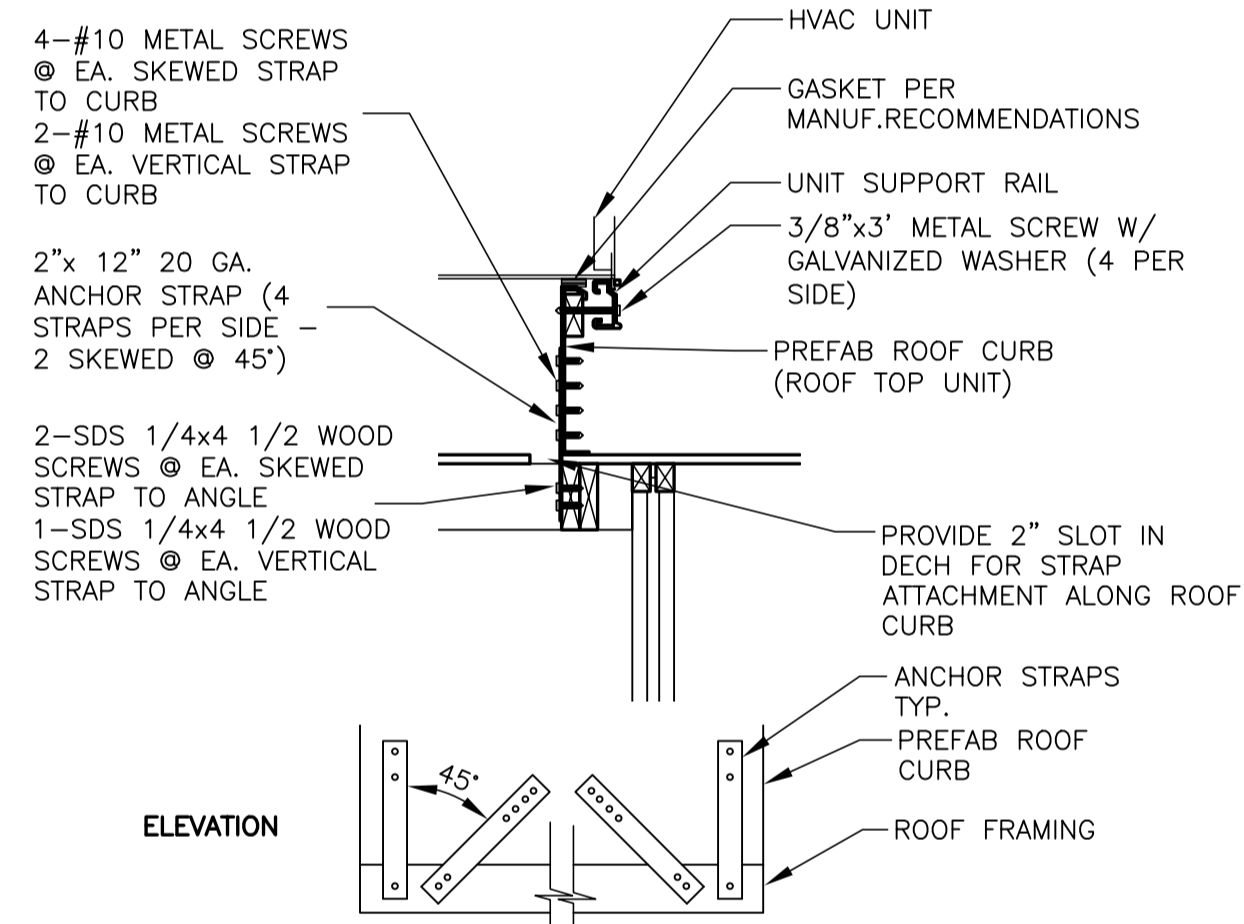
SNOW DRIFT LOAD

FLAT SNOW LOAD

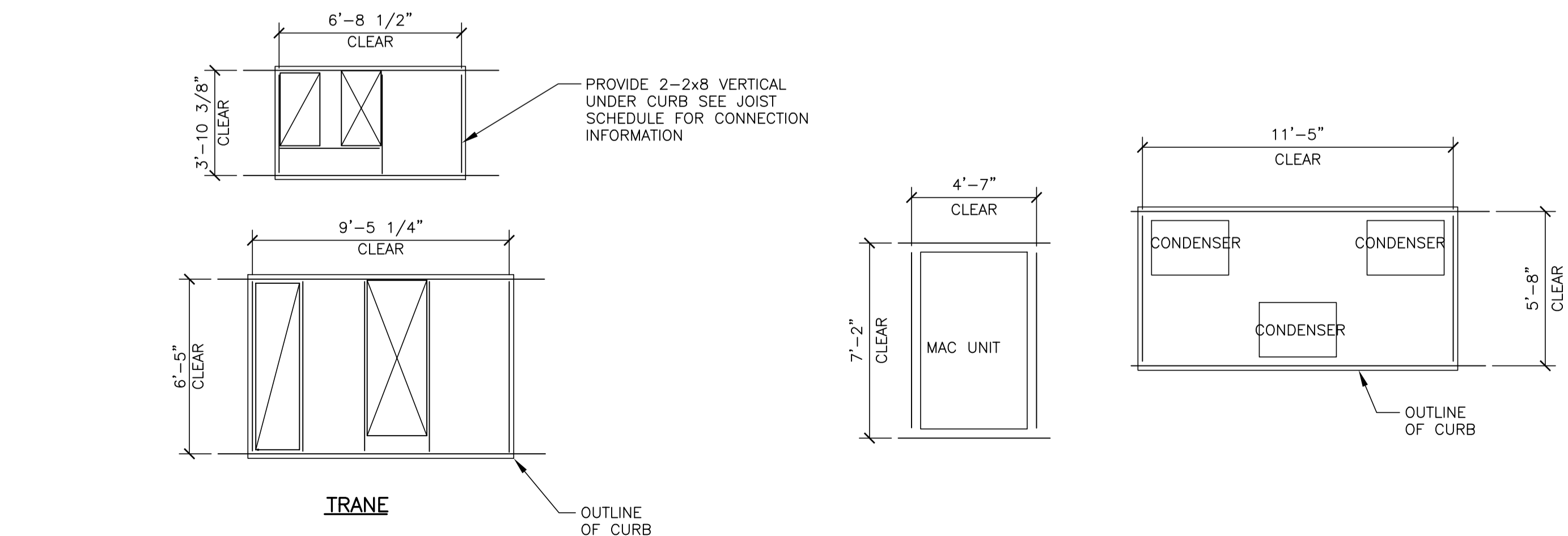
| DRIFT | SNOW DRIFT LOAD (PSF) | WIDTH (FT) |
|-----------------|-----------------------|------------|
| SHORT DIRECTION | 23.0 | 5'-8" |
| LONG DIRECTION | 35.0 | 8'-8" |

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

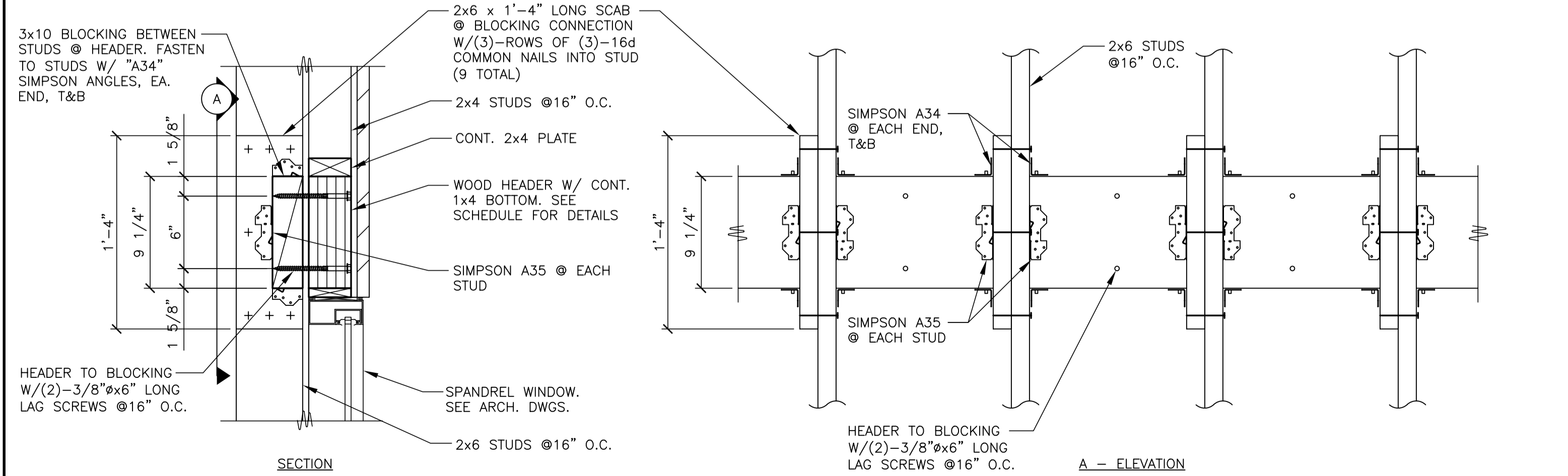
5 SNOW DRIFT DIAGRAM/SCHEDULE
 S3.2 N.T.S.



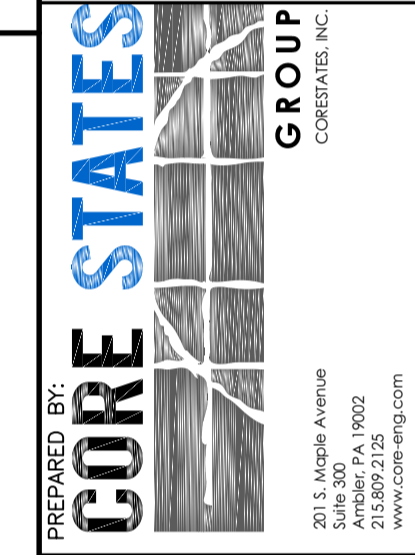
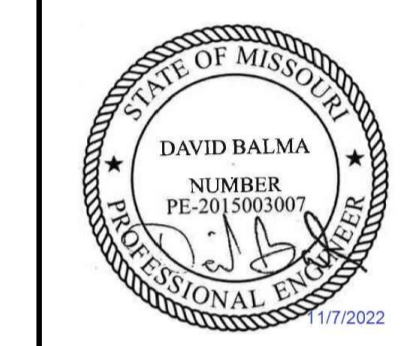
6 SECTION
 S3.2 3/4" = 1'-0"



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



8 HEADER SUPPORT DETAIL
 S3.2 1 1/2" = 1'-0"

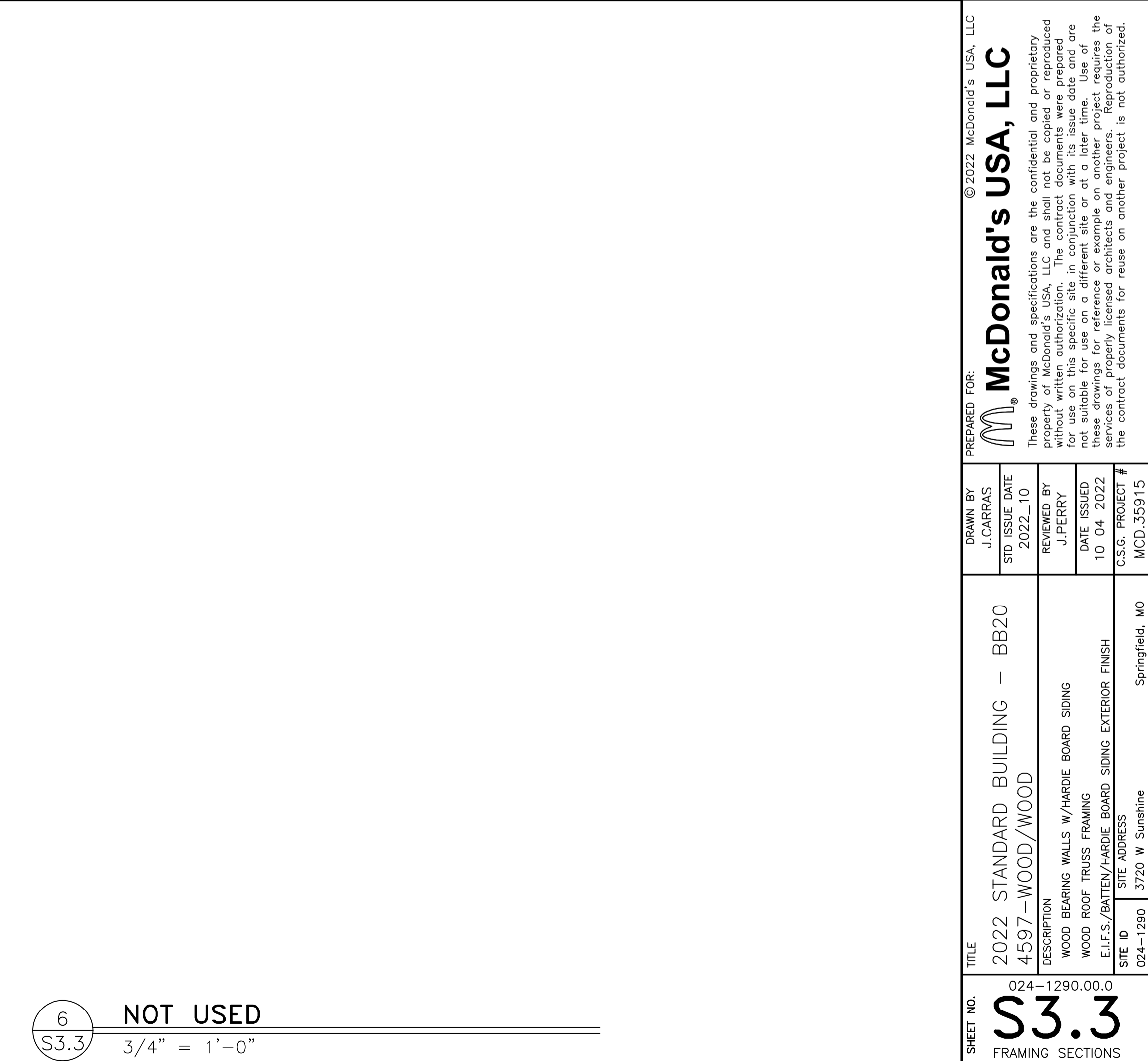
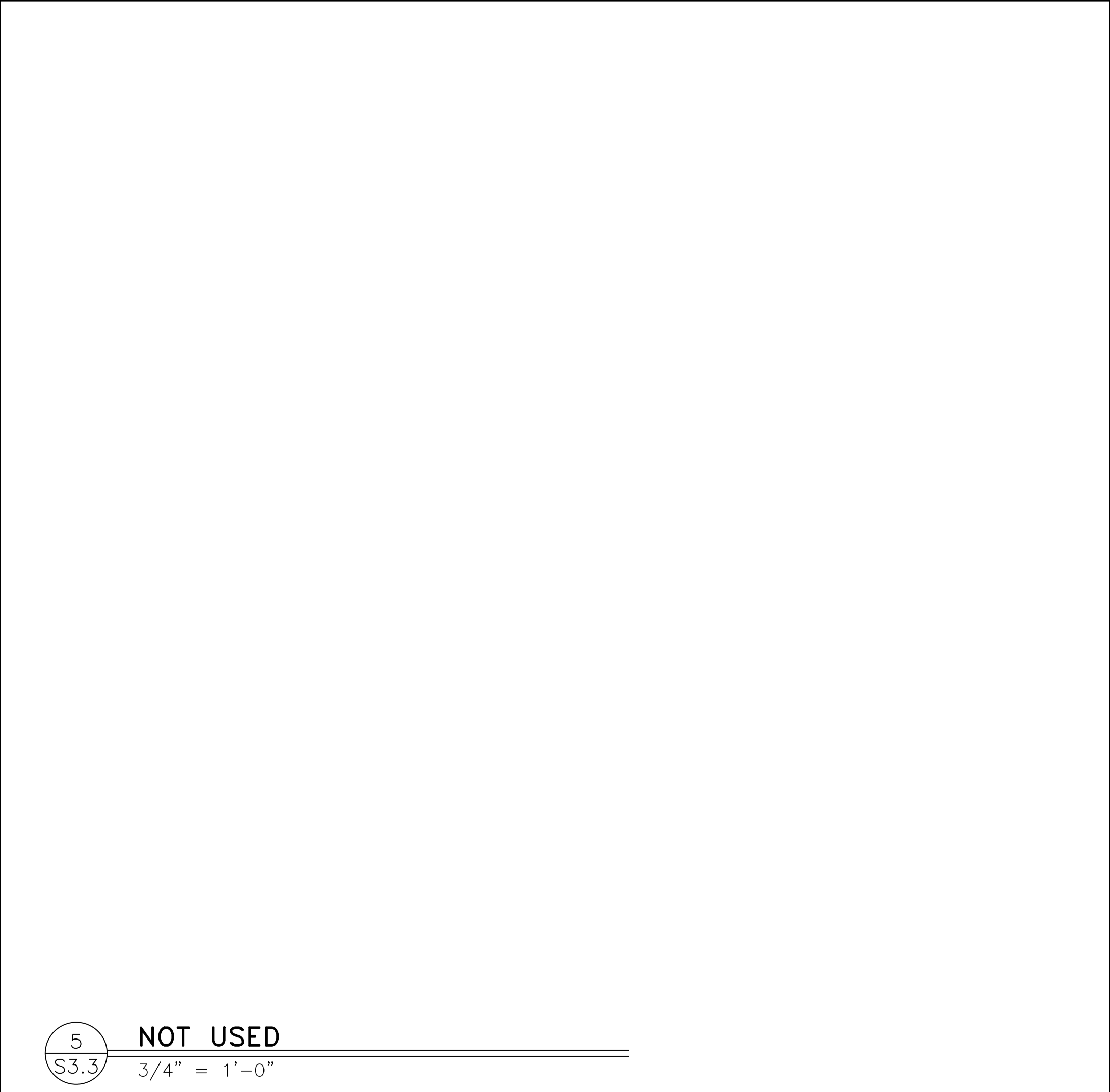
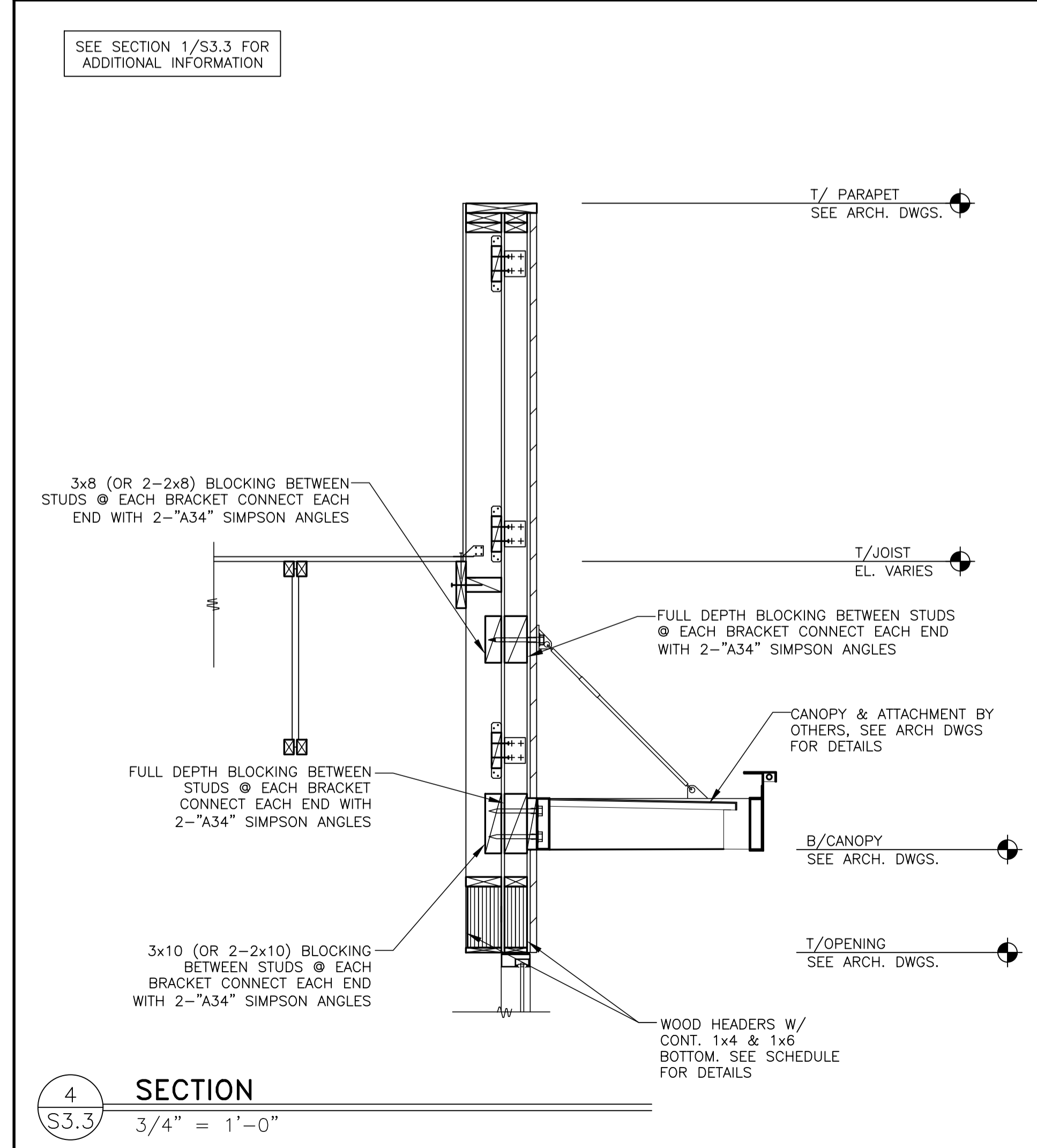
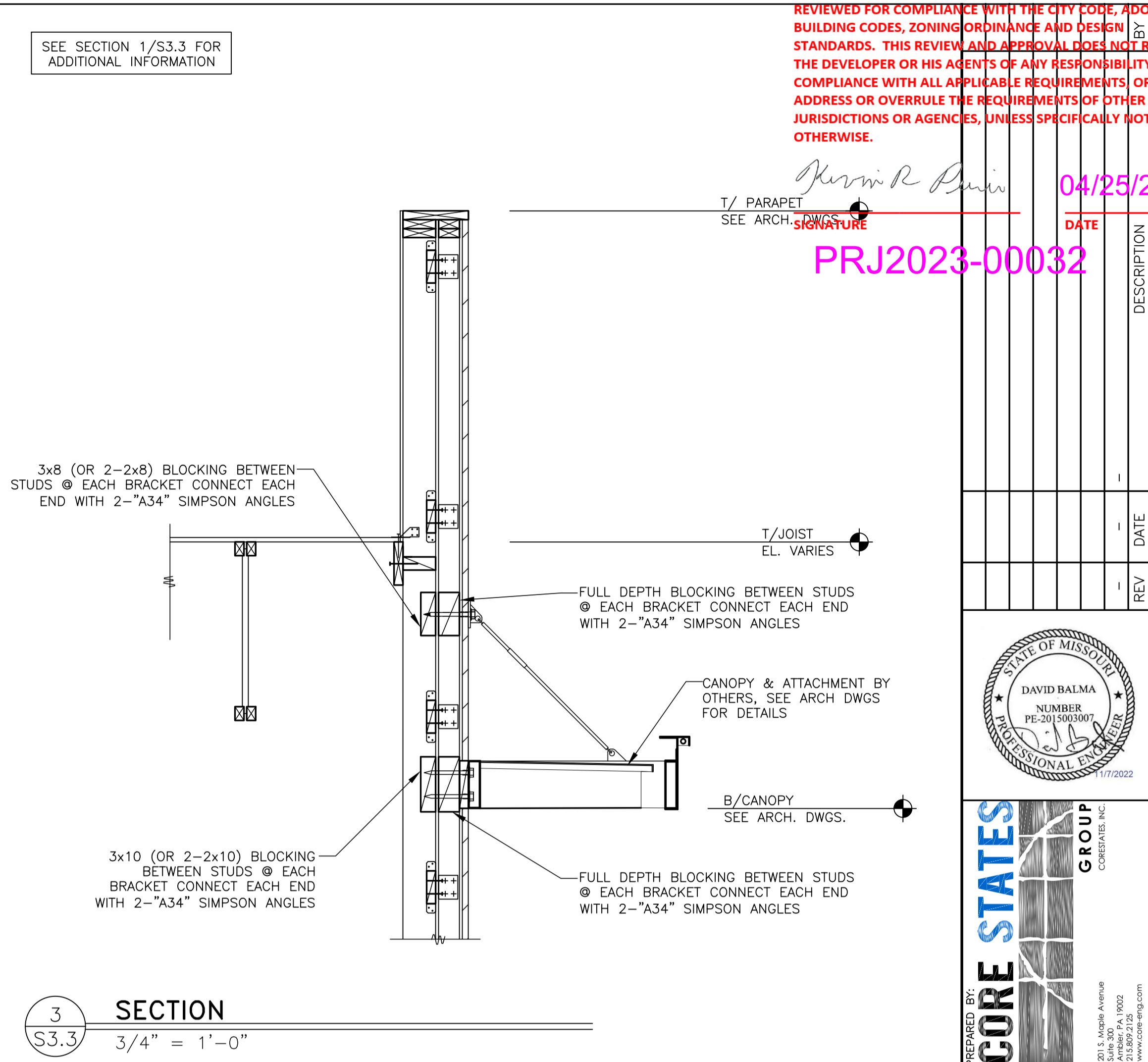
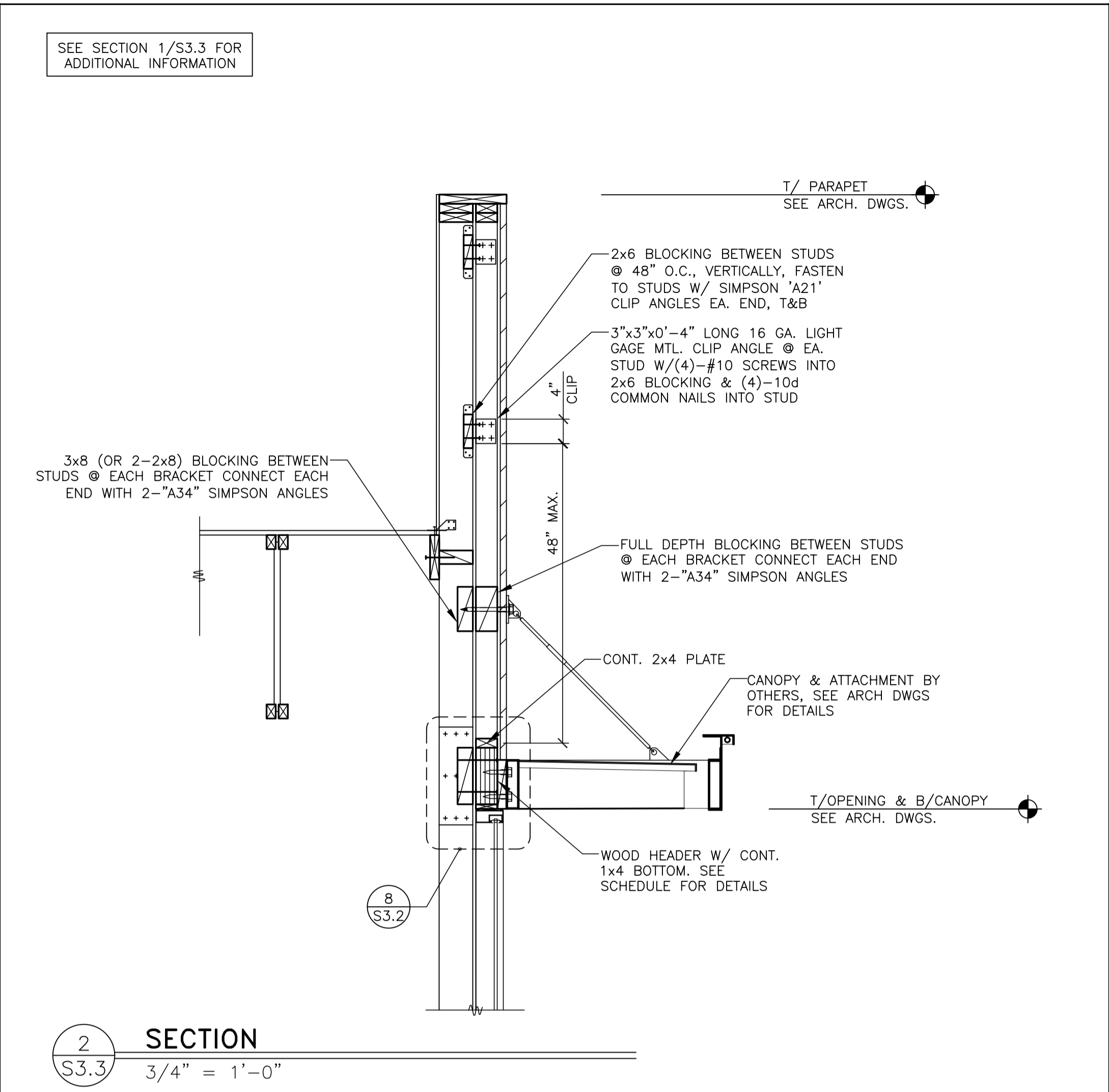
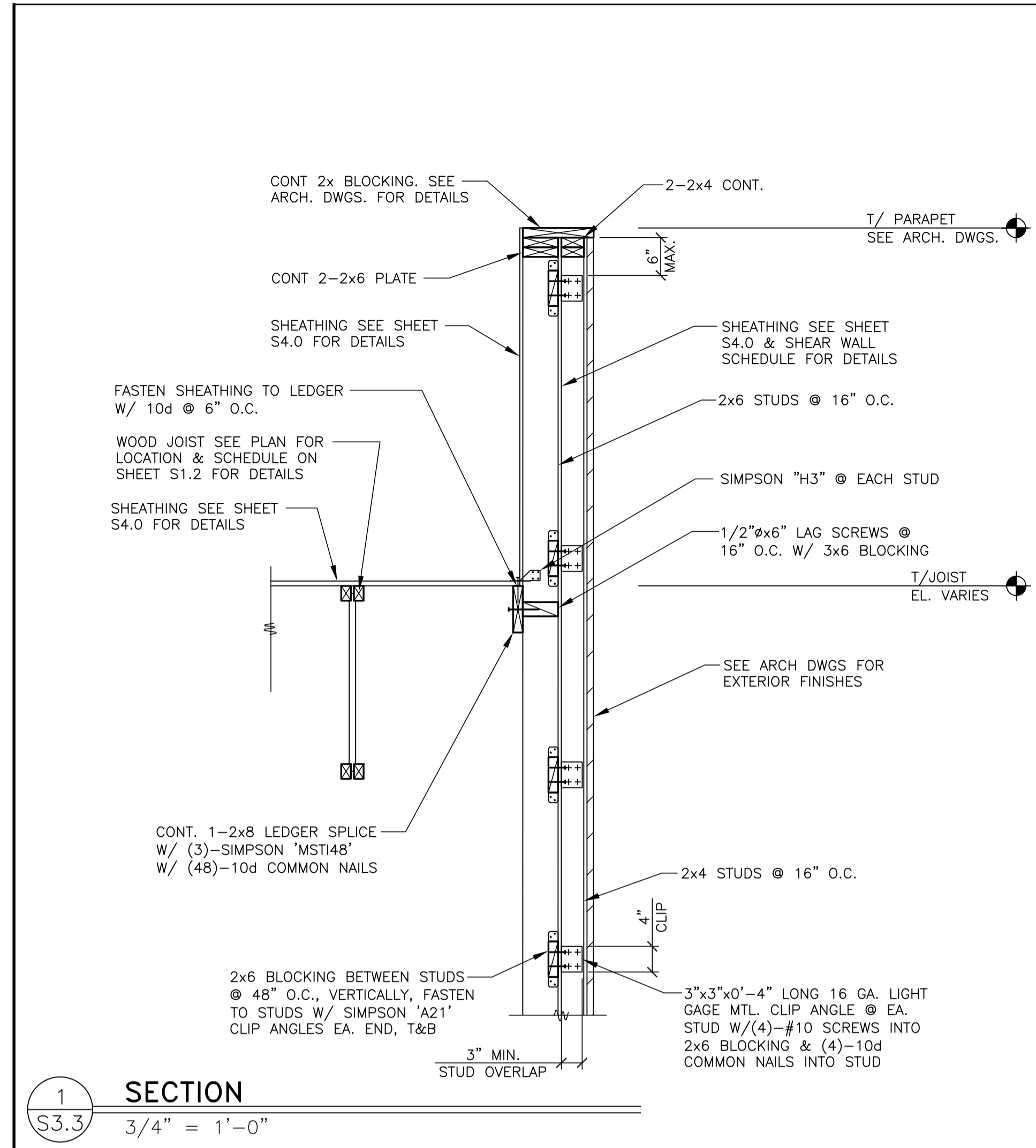


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|--|-------------------------------|
| DRAWN BY | J.CARRAS |
| STD ISSUE DATE | 2022-10 |
| REVIEWED BY | J.PERRY |
| DATE ISSUED | 10/04/2022 |
| C.S.G. PROJECT # | MCD_35915 |
| TITLE | 2022 STANDARD BUILDING - BB20 |
| DESCRIPTION | 4597 - WOOD/WOOD |
| WOOD BEARING WALLS W/HARDBOARD SIDING | |
| WOOD ROOF TRUSS FRAMING | |
| E.L.F.S./BATTEN/HARDBOARD SIDING EXTERIOR FINISH | |
| SITE ADDRESS | 3720 W Sunshine |
| | Springfield, MO |
| | 024-1290.00.0 |
| SHEET NO. | S3.2 |
| DETAILS | |

REVIEWED FOR COMPLIANCE WITH THE CITY CODE, ADOPTED BUILDING CODES, ZONING ORDINANCE AND DESIGN STANDARDS. THIS REVIEW AND APPROVAL DOES NOT RELIEVE THE DEVELOPER OR HIS AGENTS OF ANY RESPONSIBILITY FOR COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OR ADDRESS OR OVERRULE THE REQUIREMENTS OF OTHER JURISDICTIONS OR AGENCIES, UNLESS SPECIFICALLY NOTED OTHERWISE.

Kevin R. Davis
SIGNATURE
DATE 04/25/23
PRJ2023-00032



| NO. | REV | DATE | DESCRIPTION |
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| 1 | | | |
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| 6 | | | |

STATE OF MISSOURI
DAVID BALMA
NUMBER PE-2015003007
PROFESSIONAL ENGINEER
1/17/2022

CORE STATES GROUP
CORPORATE INC.
2015 Weber Avenue
Amesbury, MA 01920
www.corestates.com

PREPARED FOR: McDonald's USA, LLC
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| | |
|------------------|------------|
| DRAWN BY | J.CARRAS |
| STD ISSUE DATE | 2022-10 |
| REVIEWED BY | J.PERRY |
| DATE ISSUED | 10 04 2022 |
| C.S.G. PROJECT # | MCD_35915 |

TITLE: 2022 STANDARD BUILDING - BB20
DESCRIPTION: 4597 - WOOD/WOOD
WOOD BEARING WALLS W/HARDBOARD SIDING
WOOD ROOF TRUSS FRAMING
E.L.F.S./BATTEN/HARDBOARD SIDING EXTERIOR FINISH
SITE ID: 024-1290.00.0
SITE ADDRESS: 3720 W Sunshine
Springfield, MO

SHEET NO. S3.3
FRAMING SECTIONS

REVIEWED FOR COMPLIANCE WITH THE CITY CODE, ADOPTED BUILDING CODES, ZONING ORDINANCE AND DESIGN STANDARDS. THIS REVIEW AND APPROVAL DOES NOT RELIEVE THE DEVELOPER OR HIS AGENTS OF ANY RESPONSIBILITY FOR COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OR ADDRESS OR OVERRULE THE REQUIREMENTS OF OTHER JURISDICTIONS OR AGENCIES, UNLESS SPECIFICALLY NOTED OTHERWISE.

Kevin R. Davis
SIGNATURE
DATE 04/25/23

PRJ2023-00032

STRUCTURAL GENERAL NOTES:

DESIGN AND LOADING

- THE STRUCTURAL DESIGN OF THIS BUILDING WAS BASED ON THE DESIGN CRITERIA:
 - BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE
 - FLOOR:
 - LIVE LOAD: 100 PSF
 - ROOF:
 - LIVE LOAD: 20 PSF
 - DEAD LOAD: 20 PSF
 - SNOW:
 - GROUND LOAD: 15 PSF
 - FLAT ROOF LOAD: 15 PSF
 - SNOW EXPOSURE FACTOR, CE: 1.0
 - IMPORTANCE FACTOR, I: 1.0
 - THERMAL COEFFICIENT, CT: 1.0
 - WIND:
 - BASIC WIND SPEED: 110 MPH (3-SECOND GUST)
 - RISK CATEGORY: II
 - WIND EXPOSURE: B
 - PRESSURES PER ASCE 7-16
 - SEISMIC:
 - RISK CATEGORY: II
 - IMPORTANCE FACTOR: 1.00
 - SITE CLASS: C
 - SS = 0.185, S1 = 0.103
 - SDS = 0.160, SD1 = 0.103
 - DESIGN CATEGORY: B
 - PLYWOOD SHEAR WALLS (R = 6.5)
 - STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE (R = 3.0)
 - Cs1 = 0.025 (LONGITUDINAL DIRECTION) Cs2 = 0.053 (TRANSVERSE DIRECTION)
 - DESIGN BASE SHEAR = SEE CALCULATIONS
 - ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
 - FLOOD LOAD: N/A
 - SPECIAL LOADS: N/A

FOUNDATION NOTES

- THE FOUNDATION DESIGN OF THIS BUILDING WAS BASED ON THE FOLLOWING CRITERIA:
 - MINIMUM ALLOWABLE SOIL BEARING CAPACITY = 3100 PSF (@ ISOLATED COLUMN FOOTINGS) & 2900 PSF (@ CONTINUOUS WALL FOOTINGS).
 - RECOMMENDED BY PROFESSIONAL SERVICE INDUSTRIES, INC. (PSI) IN THEIR REPORT #0040447-1 DATED SEPTEMBER 8, 2022.
 - ANY FILL REQUIRED BELOW SLABS ON GRADE OR FOOTINGS SHALL BE COMPACTED AS REQUIRED BY THE SOILS REPORT NOTED IN ITEM #2.
- ALL EXTERIOR FOOTINGS SHALL EXTEND BELOW THE MAXIMUM ANTICIPATED DEPTH OF FROST.
- 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.
- ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED BY A SOILS TESTING LABORATORY PRIOR TO PLACEMENT OF CONCRETE.

CONCRETE AND REINFORCING

- 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.
- ALL NORMAL WEIGHT CONCRETE (145 PCF) SHALL OBTAIN A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI (3500 PSI FOR SLABS).
- ALL CONCRETE SUBJECT TO EXTERIOR EXPOSURE SHALL BE AIR ENTRAINED AS RECOMMENDED BY ACI 318.
- TEST CYLINDERS SHALL BE MADE AND TESTED AS OUTLINED IN CHAPTER 16 OF ACI-301.
- 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.
- 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.
- 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

- 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.
- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
 - ANCHOR RODS F1554, GRADE 36
 - HIGH STRENGTH STRUCTURAL BOLTS A325-N U.N.O.
 - STRUCTURAL SHAPES (W) A992
 - STRUCTURAL SHAPES (M, S, C, MC, PLATES) A36
 - STRUCTURAL SHAPES (HP) A572
 - STRUCTURAL TUBING (HSS) A500 GRADE B
 - STRUCTURAL ANGLES A36
- 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)

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

OPEN WEB WOOD JOISTS

- OPEN WEB WOOD JOISTS SHALL BE MANUFACTURED WITH MACHINE STRESS RATED TOP AND BOTTOM CHORDS. WEBS SHALL BE TUBULAR STEEL MEMBERS PER MANUFACTURERS' SPECIFICATIONS.
- 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.
- PROVIDE 3 1/2" MINIMUM BEARING OR AS SPECIFIED ON PLANS. SHIM AS REQUIRED TO PROVIDE FULL BEARING AND LEVEL SUPPORT.
- DO NOT CUT TOP OR BOTTOM CHORDS.
- 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.
- REFER TO PLANS FOR WEB STIFFENER AND CONCENTRATED LOAD REQUIREMENTS.
- REFER TO MANUFACTURERS' INSTALLATION GUIDE FOR JOIST BRACING DURING ERECTION. REFER TO MANUFACTURERS' INSTALLATION GUIDE FOR JOIST BRIDGING REQUIREMENTS.

SAWN LUMBER

- 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%:
 - SOUTHERN PINE NO. 1.
 - DOUGLAS FIR-LARCH NO. 1.
 - HEM-FIR NORTH NO. 1
- 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.
- 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.
- CONNECTORS SHOWN ON THE DETAILS ARE MANUFACTURED BY SIMPSON. WRITTEN APPROVAL BY ENGINEER REQUIRED FOR SUBSTITUTIONS.

ROOF & WALL SHEATHING

- ALL SHEATHING SHALL CONFORM TO AMERICAN PLYWOOD ASSOCIATION (APA) DESIGN SPECIFICATIONS, LATEST EDITION. SHEATHING SHALL BE CONTINUOUS OVER THREE ADJACENT SPANS MINIMUM.
- 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.
- 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.

MASONRY

- CONCRETE BLOCK DESIGN AND CONSTRUCTION SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES," TMS 402/ACI 530/ASCE 5 AND "SPECIFICATIONS FOR MASONRY STRUCTURES" (TMS 602/ACI 530.1/ASCE 6)
- MASONRY MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS:
 - HOLLOW LOAD BEARING CONCRETE BLOCK: ASTM C-90. MINIMUM COMPRESSIVE STRENGTH = 2800 PSI AT 28 DAYS.
 - MORTAR: ASTM C-270, TYPE S. MINIMUM COMPRESSIVE STRENGTH = 1800 PSI AT 28 DAYS.
 - MORTAR: ASTM C-270, TYPE M. MINIMUM COMPRESSIVE STRENGTH = 2500 PSI AT 28 DAYS. (USED FOR BELOW GRADE WORK)
 - GROUT: ASTM C-476. MINIMUM COMPRESSIVE STRENGTH = 2000 PSI AT 28 DAYS
 - MASONRY REINFORCEMENT: ASTM A-82 GALVANIZED (JOINT BEDS, TIES)
 - MASONRY PRISM STRENGTH: F'm = 2000 PSI
 - PRIOR TO DELIVERY OF MASONRY UNITS TO THE JOB SITE, FURNISH TO THE OWNER AFFIDAVITS FROM AN APPROVED TESTING LABORATORY CERTIFYING THAT ALL UNITS CONFORM TO THEIR RESPECTIVE ASTM REQUIREMENTS.
 - GROUT ALL CAVITIES CONTAINING REINFORCEMENT IN LIFTS NOT TO EXCEED 5'-0".
 - LABORATORY PREPARED MIXES SHALL BE PREPARED AND TESTED IN ACCORDANCE WITH ASTM C-270. FIELD MORTAR SHALL BE TESTED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH ASTM C-780 TWO SETS OF THREE MORTAR CUBES SHALL BE TAKEN DIRECTLY FROM THE MIXER FOR EACH DAY OF MASONRY WORK. TEST THE CUBES AT 28 DAYS. ACCEPTANCE OF THE MORTAR SHALL BE AT THE DISCRETION OF THE ENGINEER.
 - CALCIUM CHLORIDE AND/OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE INCLUDED IN MORTAR OR GROUT MIX, EXCEPT WHEN APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. NO ANTI FREEZE COMPOUNDS SHALL BE USED TO LOWER THE MORTAR'S FREEZING POINT.
 - NO EXTERIOR MASONRY SHALL BE LAID WHEN THE OUTSIDE AIR TEMPERATURE IS LESS THAN 40 DEGREES FAHRENHEIT, UNLESS THE RECOMMENDATIONS SPECIFIED BY THE BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" TMS 402/ACI 530/ASCE 5 AND "SPECIFICATIONS FOR MASONRY STRUCTURES" (TMS 602/ACI 530.1/ASCE 6) FOR COLD WEATHER CONSTRUCTION ARE STRICTLY FOLLOWED.
 - THE MASONRY CONTRACTOR SHALL PROVIDE BRACING TO WITHSTAND HORIZONTAL PRESSURES AS REQUIRED BY THE BUILDING CODE AND LOCAL ORDINANCE.

LIGHT GAGE METAL FRAMING

- 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.
- STUDS AND TRACKS SHALL BE 18 GA. MINIMUM U.N.O. THEY SHALL BE MANUFACTURED BY DIETRICH INDUSTRIES, INC. OR APPROVED EQUAL.
- 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.
- REFER TO PLANS AND DETAILS FOR CONNECTION OF STUD WALLS TO FOUNDATION, FLOOR OR ROOF.

SHOP DRAWINGS

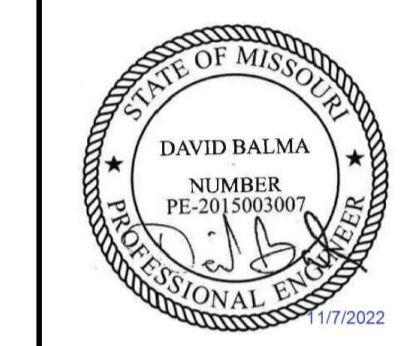
- SHOP DRAWING SUBMITTALS SHALL BE SUBMITTED ELECTRONICALLY.
- SHOP DRAWINGS SHALL BE REVIEWED BY CONTRACTOR TO VERIFY THAT SUBMITTAL IS COMPLETE PRIOR TO SUBMITTING TO ARCHITECT/ENGINEER.
- DRAWINGS CREATED BY THE ENGINEER OF RECORD CANNOT BE REPRODUCED AND/OR USED AS A SHOP DRAWING SUBMITTAL. SHOP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

SPECIAL INSPECTIONS

- 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 2018 INTERNATIONAL BUILDING CODE SECTIONS/LOCATIONS:
 - SOILS - SECTION 1705.6 PER TABLE 1705.6
 - CONCRETE - SECTION 1705.3 PER TABLE 1705.3
 - STEEL - SECTION 1705.2 (SEE AISC 360.16)

MISCELLANEOUS

- 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.
- 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.
- DO NOT SCALE THE DRAWINGS.



PREPARED FOR: McDonald's USA, LLC
 PREPARED BY: J.CARRAS
 STD ISSUE DATE: 2022-10-10
 REVIEWED BY: J.PERRY
 DATE ISSUED: 10/04/2022
 C.S.G. PROJECT # MCD_35915

TITLE: 2022 STANDARD BUILDING - BB20
 4597 - WOOD/WOOD
 DESCRIPTION: WOOD BEARING WALLS W/HARDE BOARD SIDING
 WOOD ROOF TRUSS FRAMING
 E.L.F.S./BATEN/HARDE BOARD SIDING EXTERIOR FINISH
 SITE ADDRESS: 3720 W Sunshine
 Springfield, MO

SHEET NO. 024-1290.00.0
S4.0
 STRUCTURAL NOTES

| REV | DATE | DESCRIPTION |
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