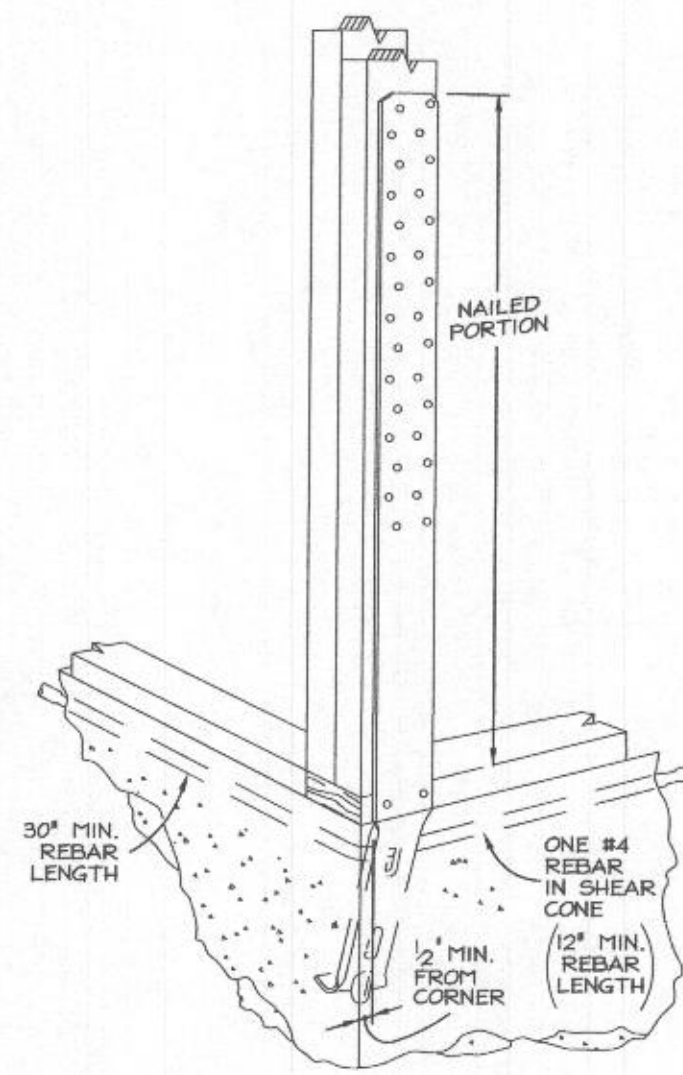


FIRST FLOOR BRACING PLAN
1/4" PER FOOT



SIMPSON STHD14RJ INSTALLATION
NTS

WALL ASSEMBLY SCHEDULE	
TYPE	DESCRIPTION#
GB #	DENOTES BRACED WALL SEGMENT MIN. WIDTH, IN INCHES, 1/2" GYPSUM BOARD NAILED w/13 ga NAILS @ 7"oc ALONG EDGES AND 12" oc IN THE FIELD, BLOCKED. (SEE IRC R702.3.5 FOR ALTERNATE FASTENING - GB2 DESIGNATES SHEATHING BOTH SIDES.)
CS WSP #	DENOTES BRACED WALL SEGMENT MIN. WIDTH, IN INCHES, PER IRC SECTION 602.10, 1/2" OSB OR PLYWOOD SHEATHING, w/16d COMMON EDGE NAILS @ 6"oc, 12"oc IN FIELD, OR 16ga, 1/2" CROWN, 1 1/2" LEG EDGE STAPLES @ 3"oc, 6"oc IN FIELD
WSP #	DENOTES BRACED WALL SEGMENT MIN. WIDTH, IN INCHES, PER IRC SECTION 602.10, 1/2" OSB OR PLYWOOD SHEATHING, w/16d COMMON EDGE NAILS @ 6"oc, 12"oc IN FIELD, OR 16ga, 1/2" CROWN, 1 1/2" LEG EDGE STAPLES @ 3"oc, 6"oc IN FIELD
CS-PF #	DENOTES BRACED WALL SEGMENT MIN. WIDTH, IN INCHES, PER IRC SECTION 602.10, 1/2" OSB OR PLYWOOD SHEATHING, NAILED & STRAPPED PER IRC CS-PF METHOD
PFH #/#	DENOTES BRACED WALL SEGMENT MIN. WIDTH, IN INCHES, PER IRC PFH METHOD (#/# DENOTES ACTUAL PANEL WIDTH, IN INCHES AND CONTRIBUTING LENGTH, IN INCHES).

#NOTE: ALL ASSEMBLIES REQ MIN. 2x6 STUDS @ 24"oc AND ALL EXTERIOR WALLS SHALL BE CONTINUOUSLY SHEATHED PER IRC SECTION R602.10, BRACED WALL SEGMENTS SHALL BE SPACED MAXIMUM 20'-0", EDGE TO EDGE, AND SHALL START WITHIN 10'-0" OF EACH END OF BRACED WALL LINES.

ISSUE DATE

1 5-27-22 PERMIT SET

1 11-21-22 REVISED DESIGN

SCALE:
FIRST FLOOR WALL BRACING

WB.1

PRINT DATE:
Tuesday, July 19, 2022

ARCHITECTURE
JONATHAN RIVERA
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(443) 226-5745
JONATHANRIVERA.COM

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STATE OF MARYLAND
ROBERT B. WYATT
PROFESSIONAL ENGINEER
11/21/2022

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MID-ATLANTIC
STRUCTURAL ENGINEERING
1885 WILLOW GROVE ROAD
MONROEVILLE, NJ 08343
(717) 504-8407
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PROPOSED
ADDITION

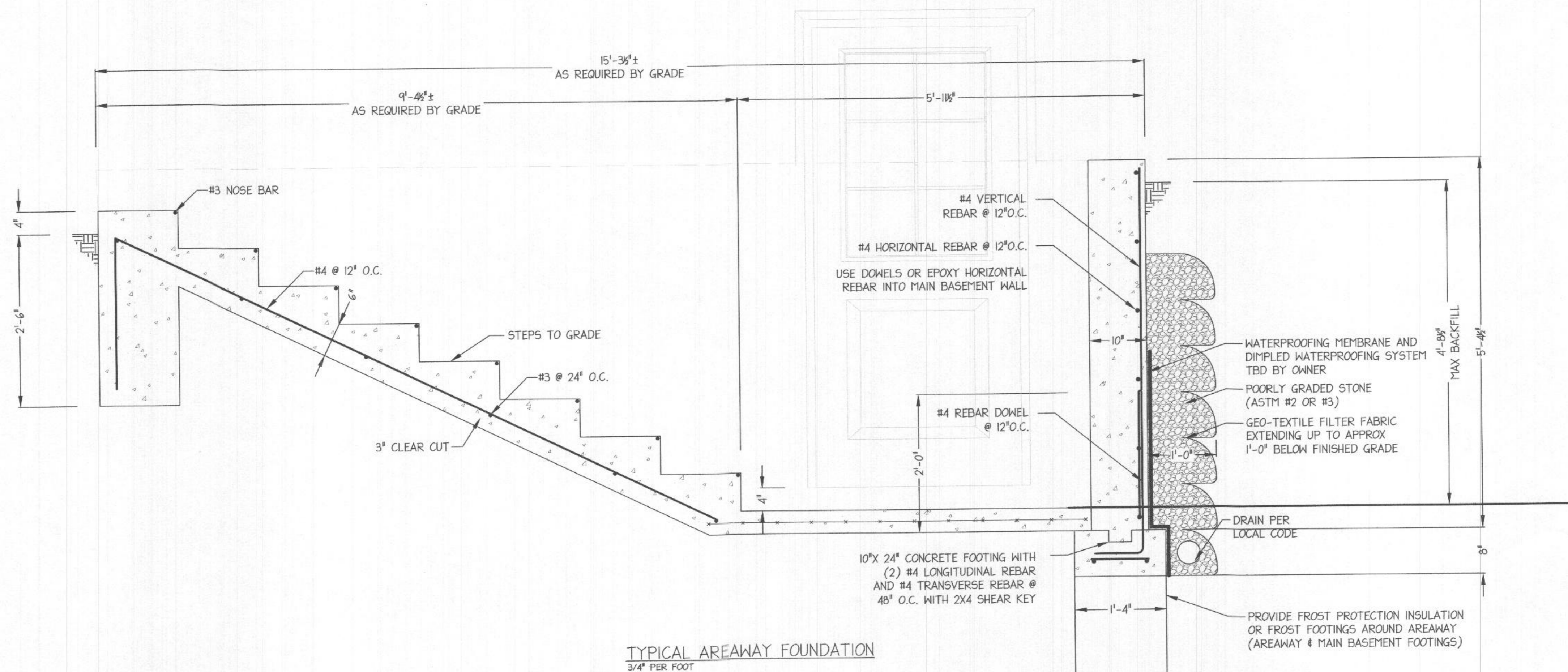
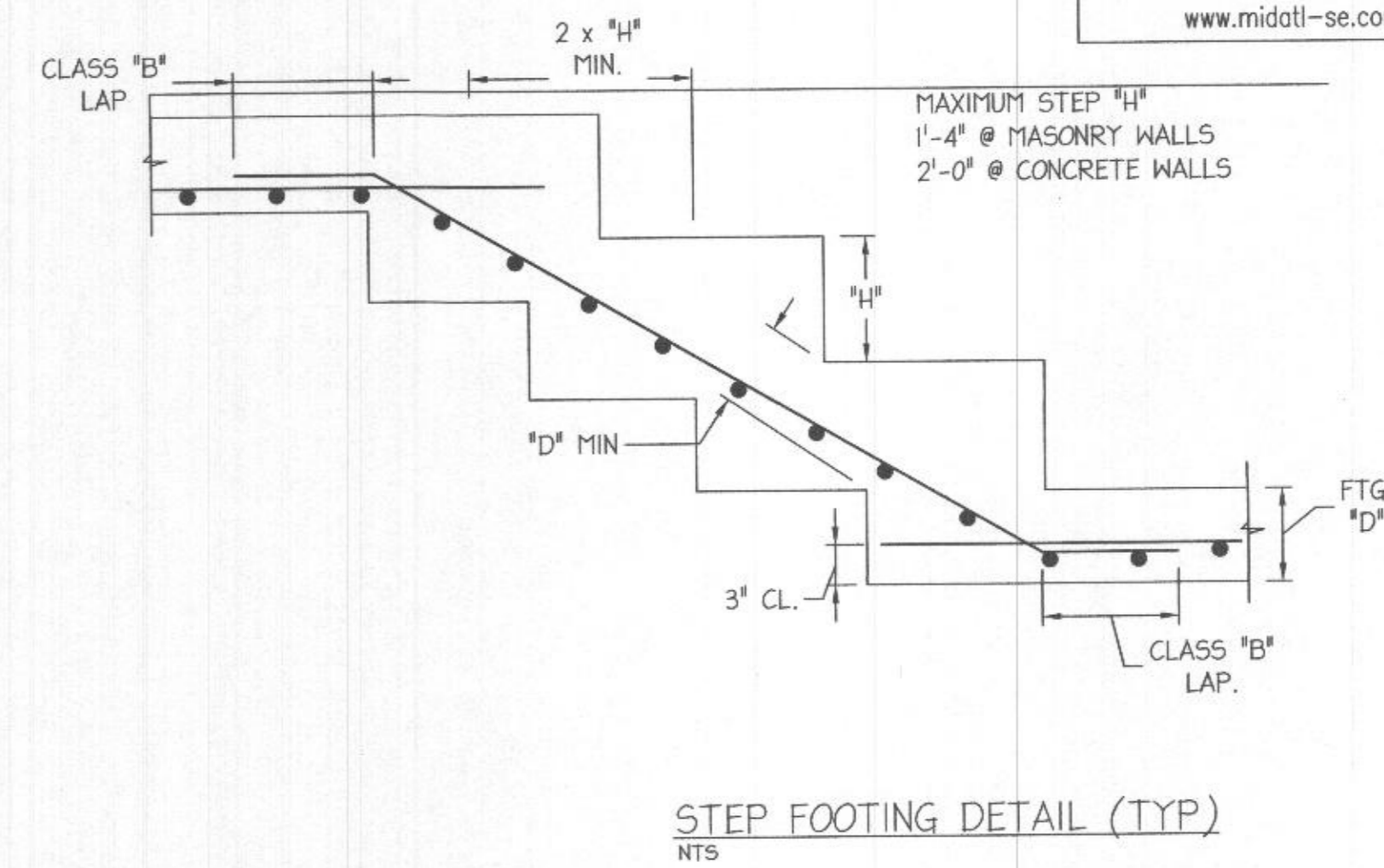
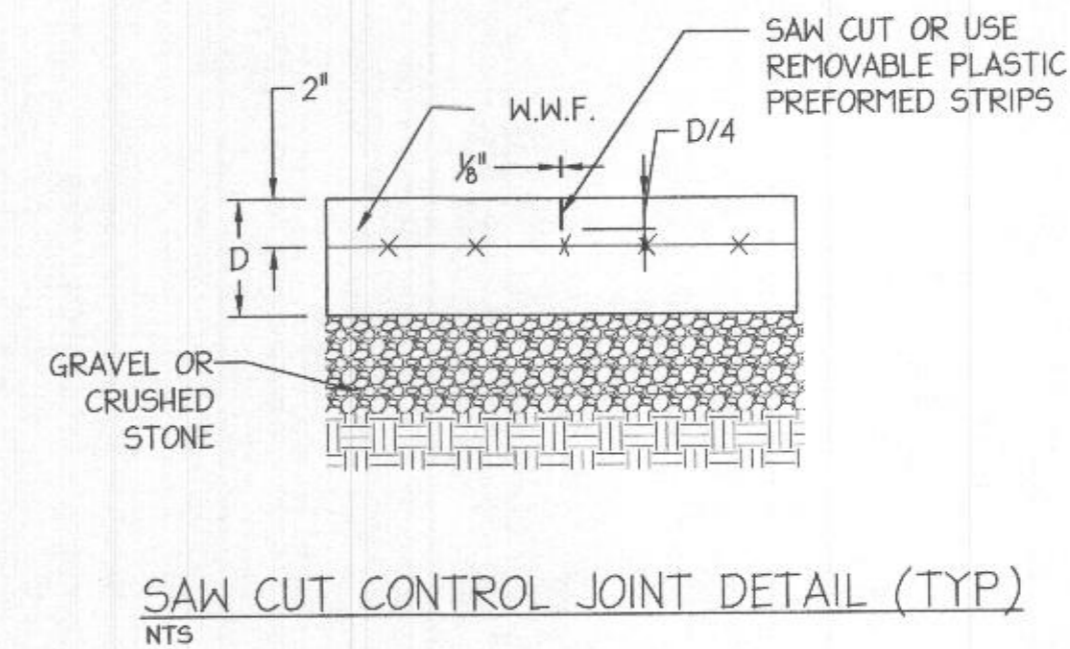
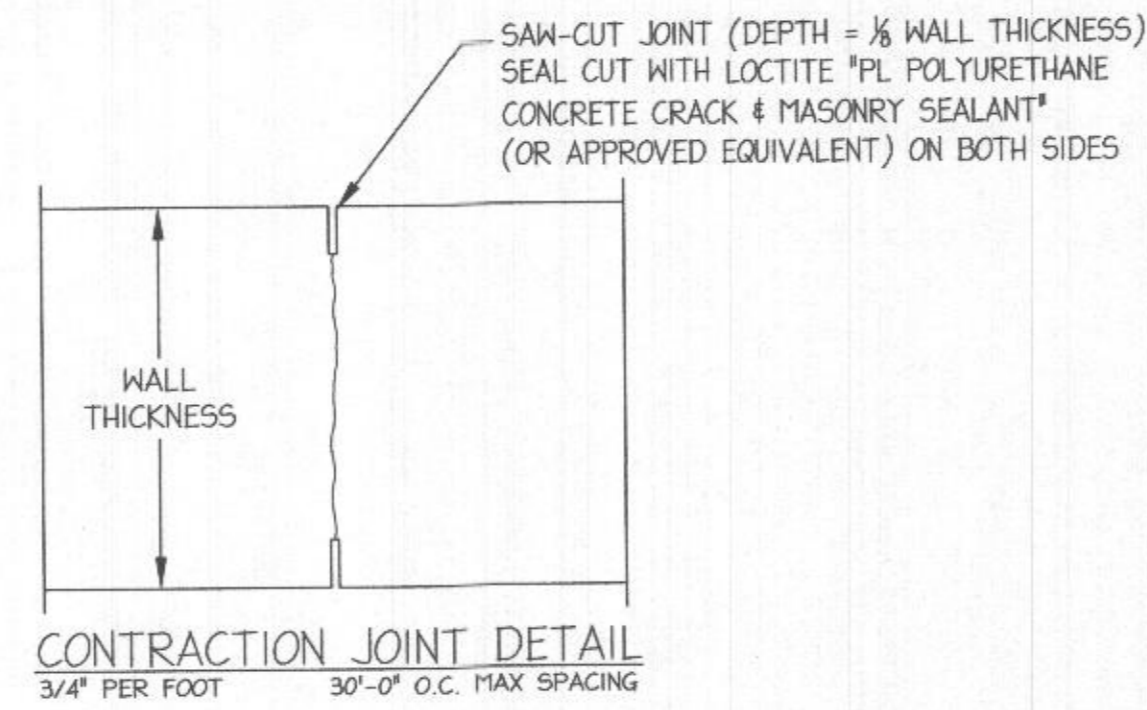
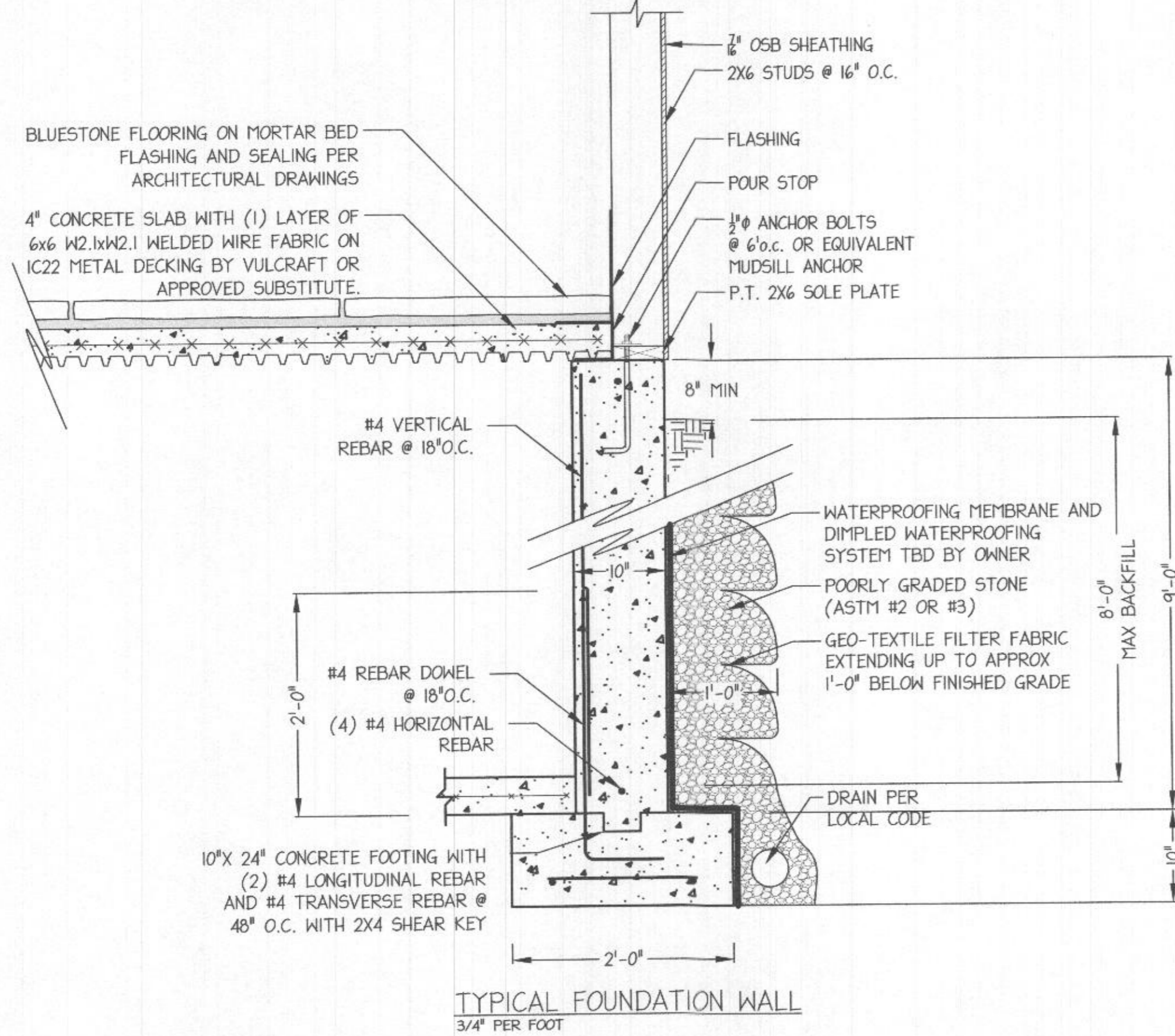
RAO
RESIDENCE
5102 Clay Cir Lane,
Clarksville, Maryland 21029

ARCHITECT
Jonathan Rivera AIA, NCARB
Howard County, Maryland

443.226.5745
jriviera@jonathanrivera.com

BUILDER
Name
address location
phone number
email

FOUNDATION DESIGN
BASED ON ACI 332



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jrivera@jonathanrivera.com

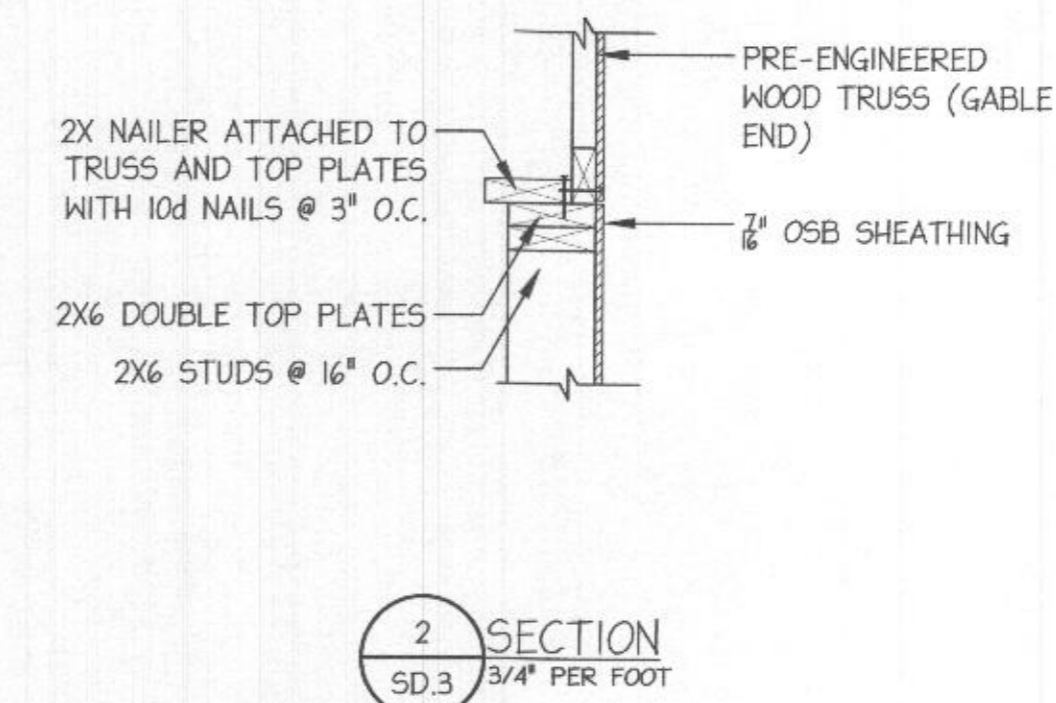
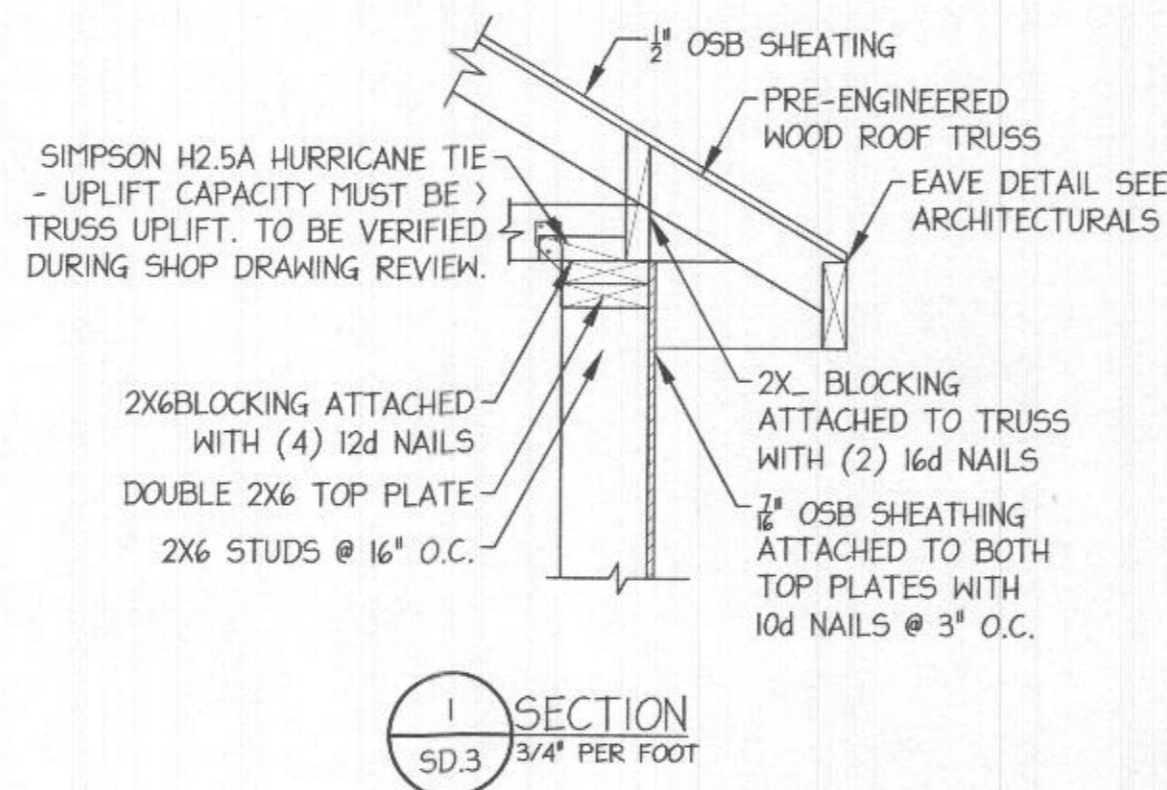
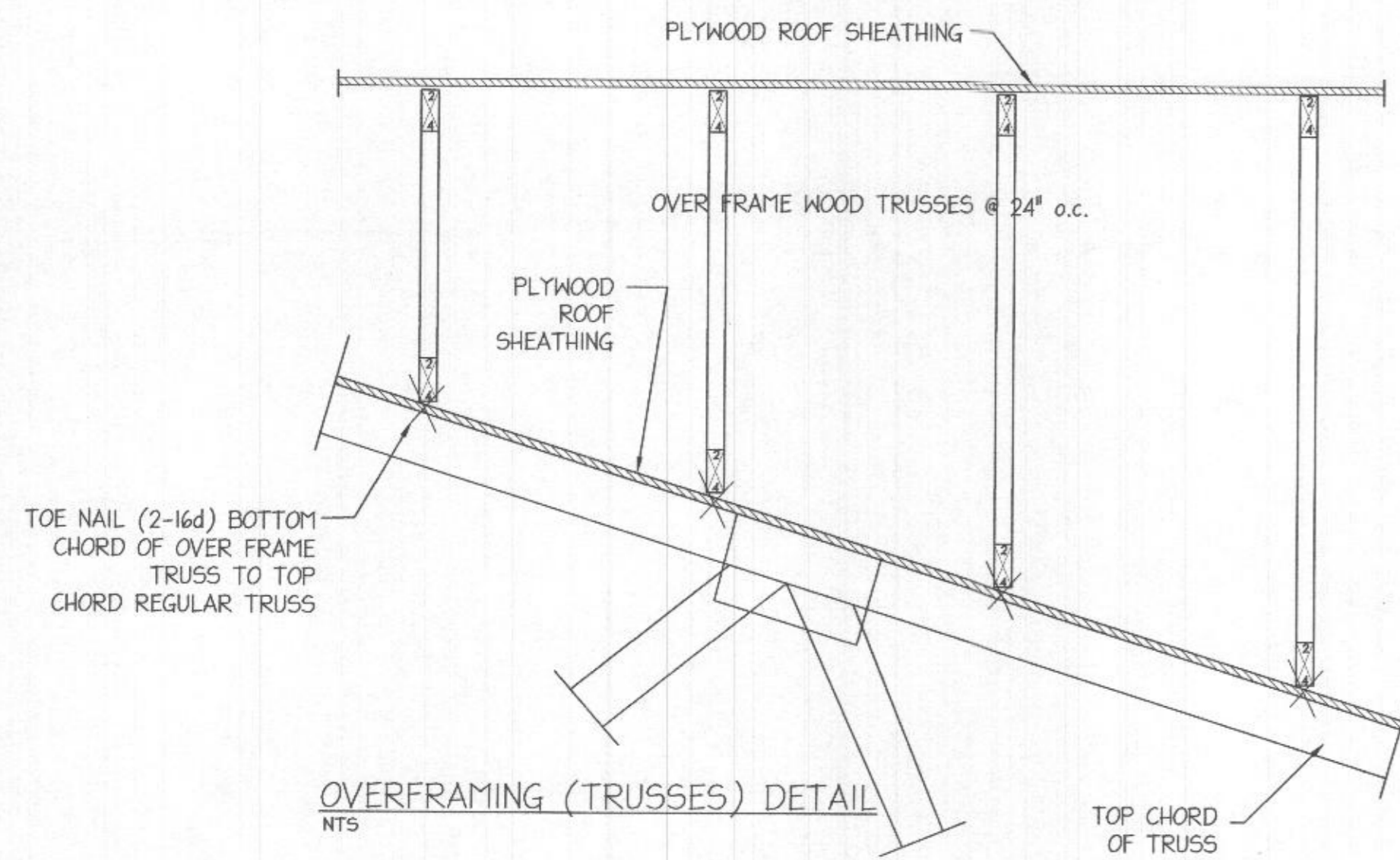
BUILDER
Name
address location
phone number
email

ISSUE DATE

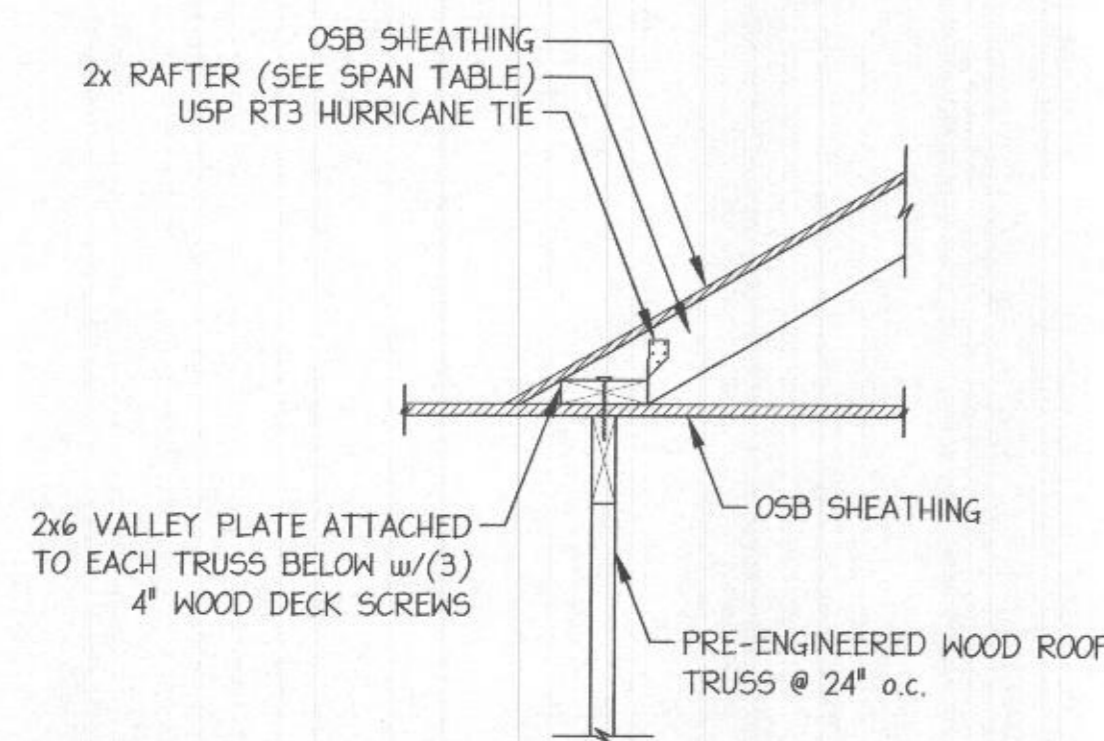
1	5-27-22	PERMIT SET
2	11-21-22	REVISED DESIGN
3		
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SCALE:
STRUCTURAL DETAILS

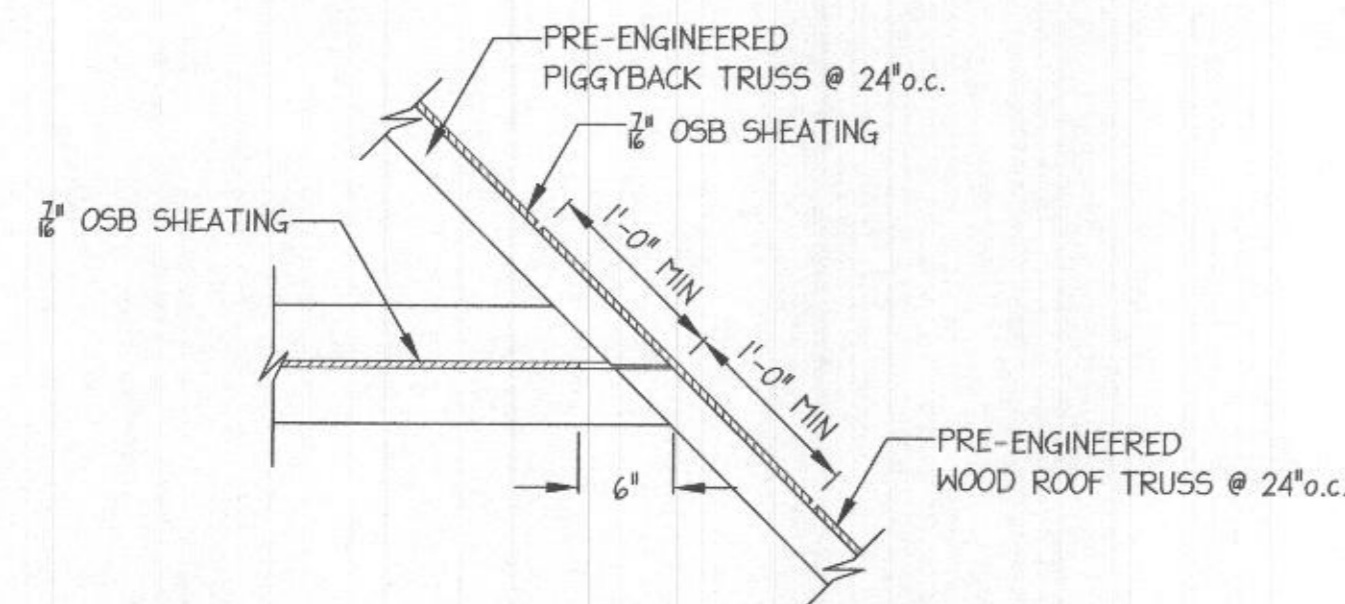
SD.1
PRINT DATE:
Tuesday, July 19, 2022



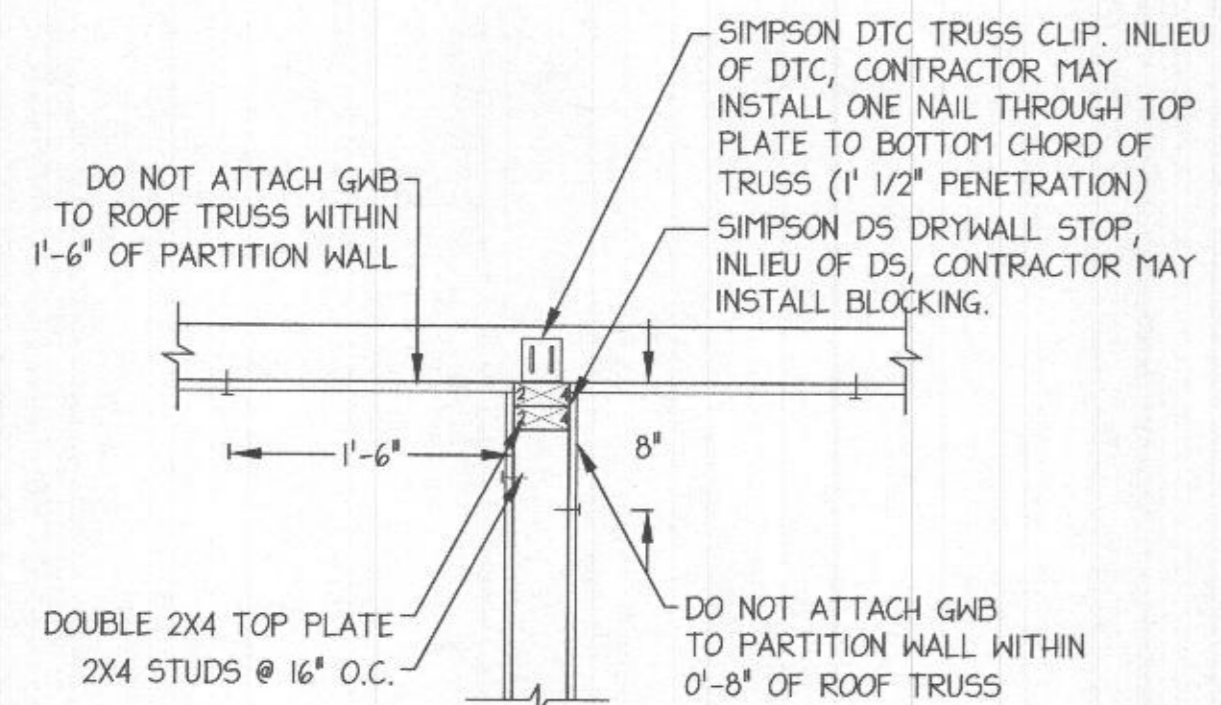
OVERFRAMING (TRUSSES) DETAIL NTS



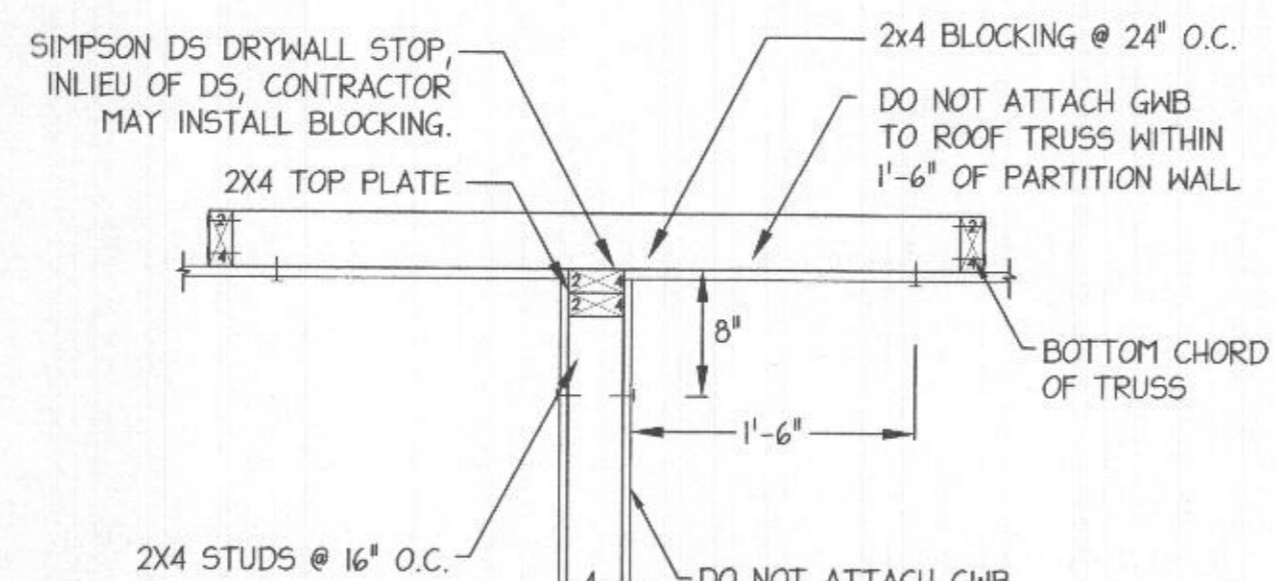
4 TYP OVER FRAMING CONNECTION DETAIL SD.3 3/4" PER FT



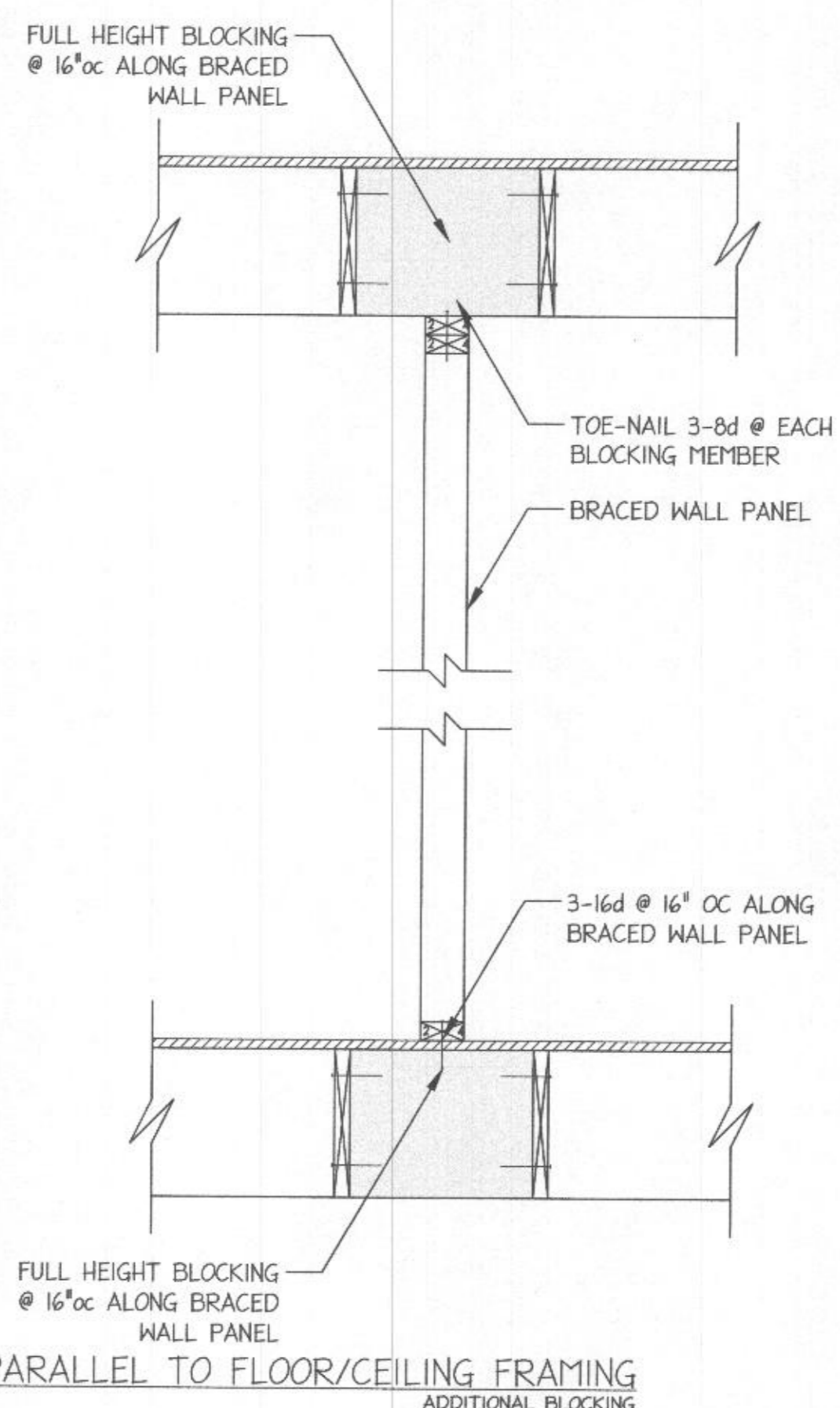
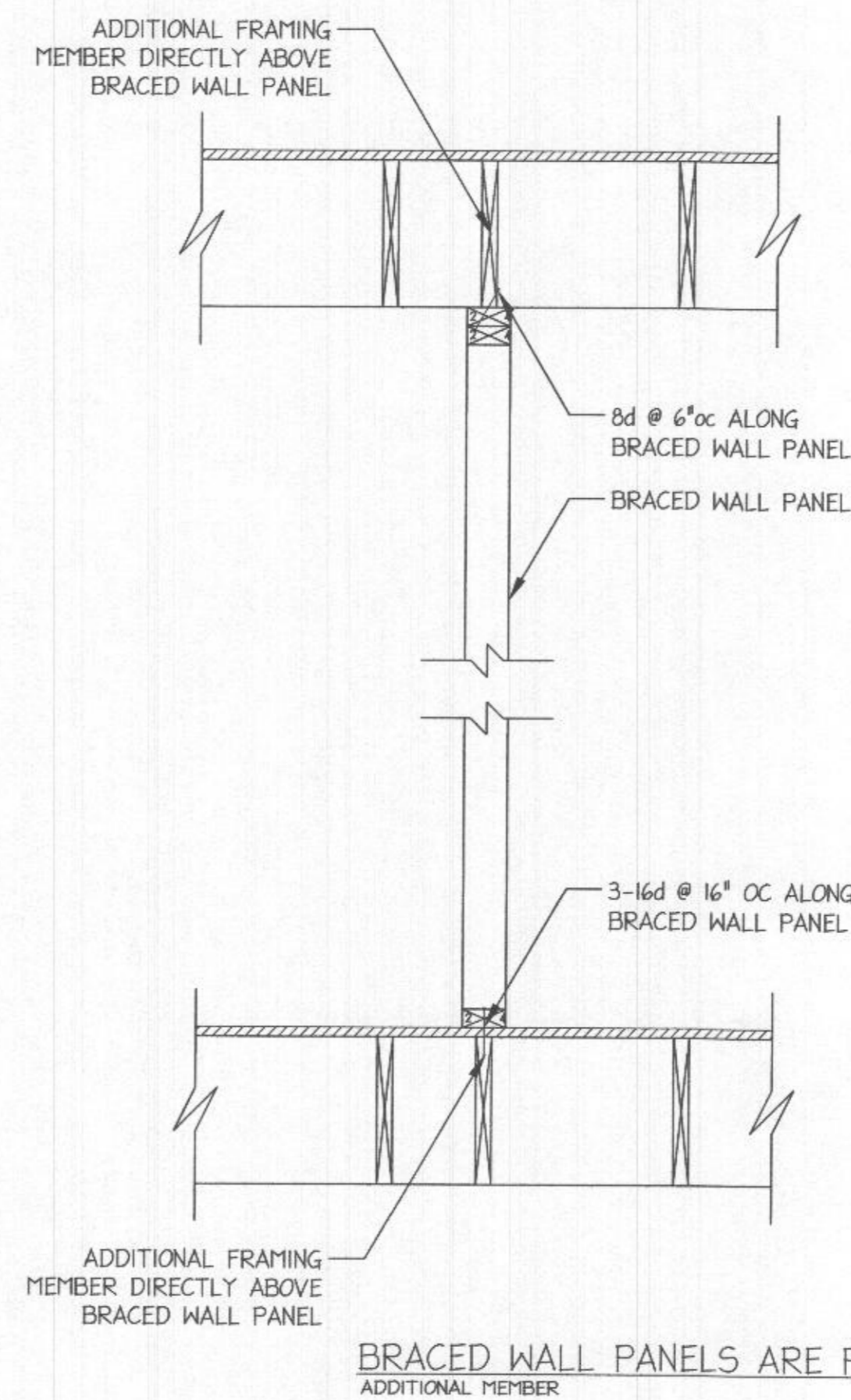
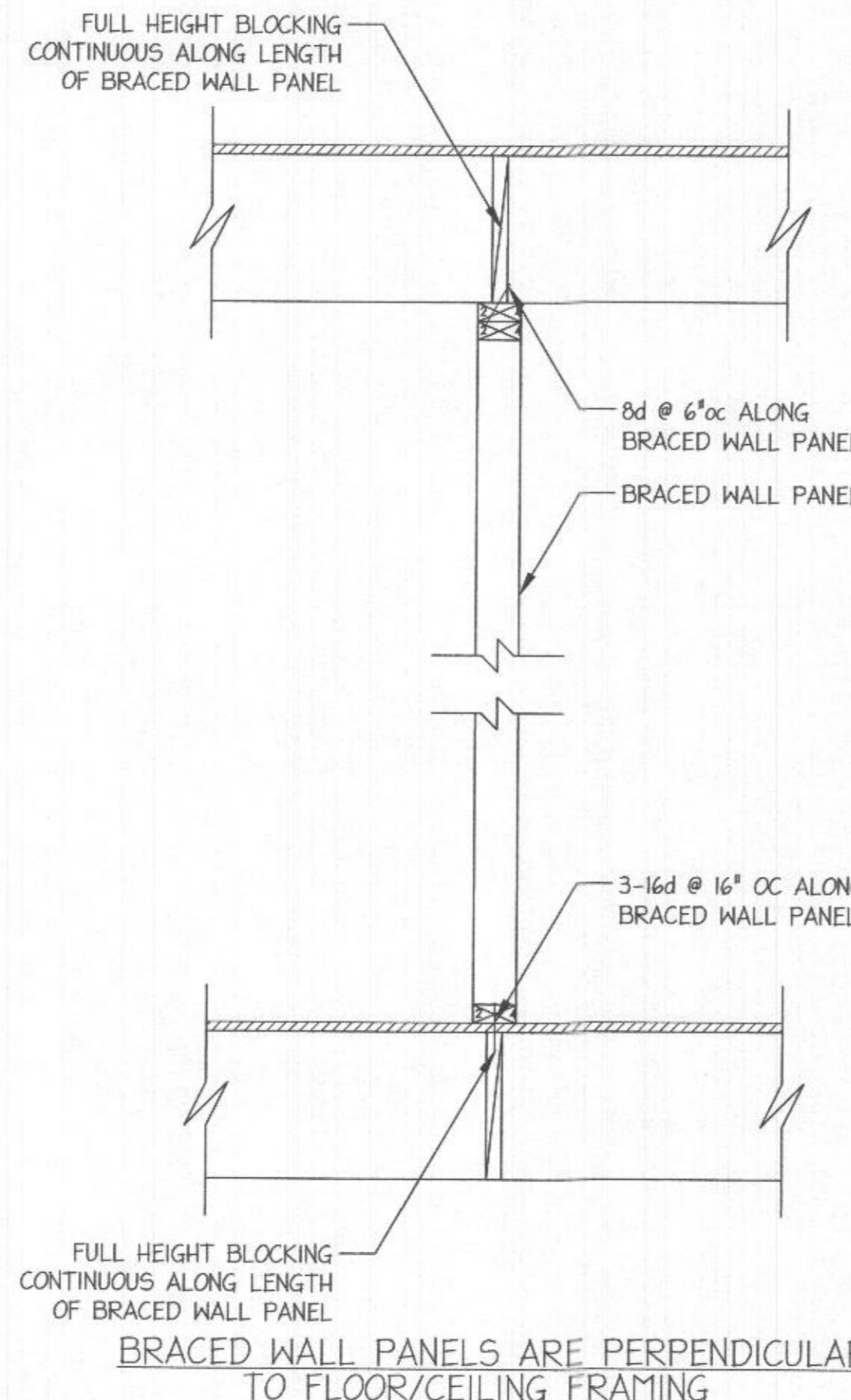
PIGGYBACK TRUSS DETAIL (TYP) NTS



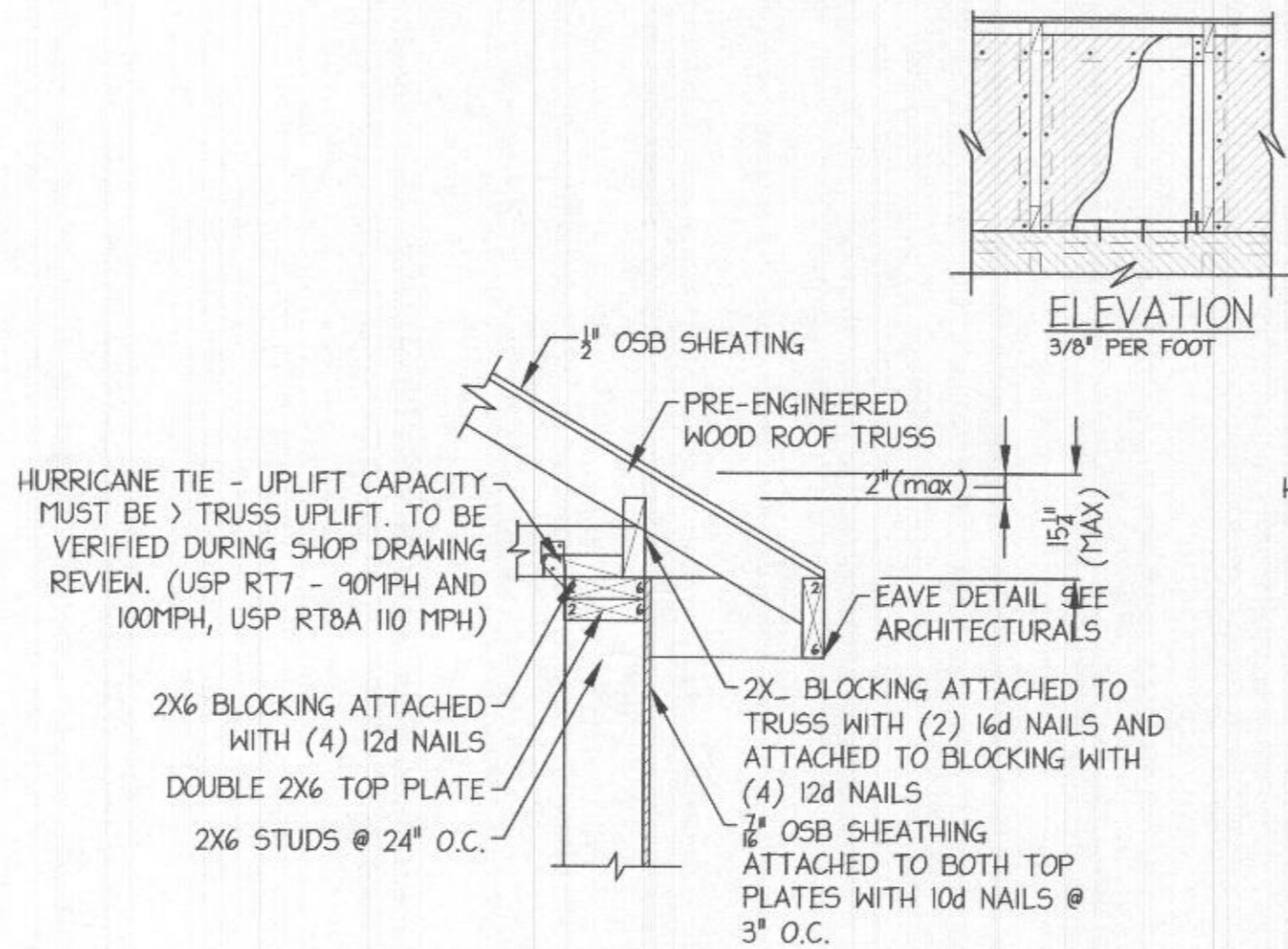
PERPENDICULAR PARTITION DETAIL (TYP) NTS



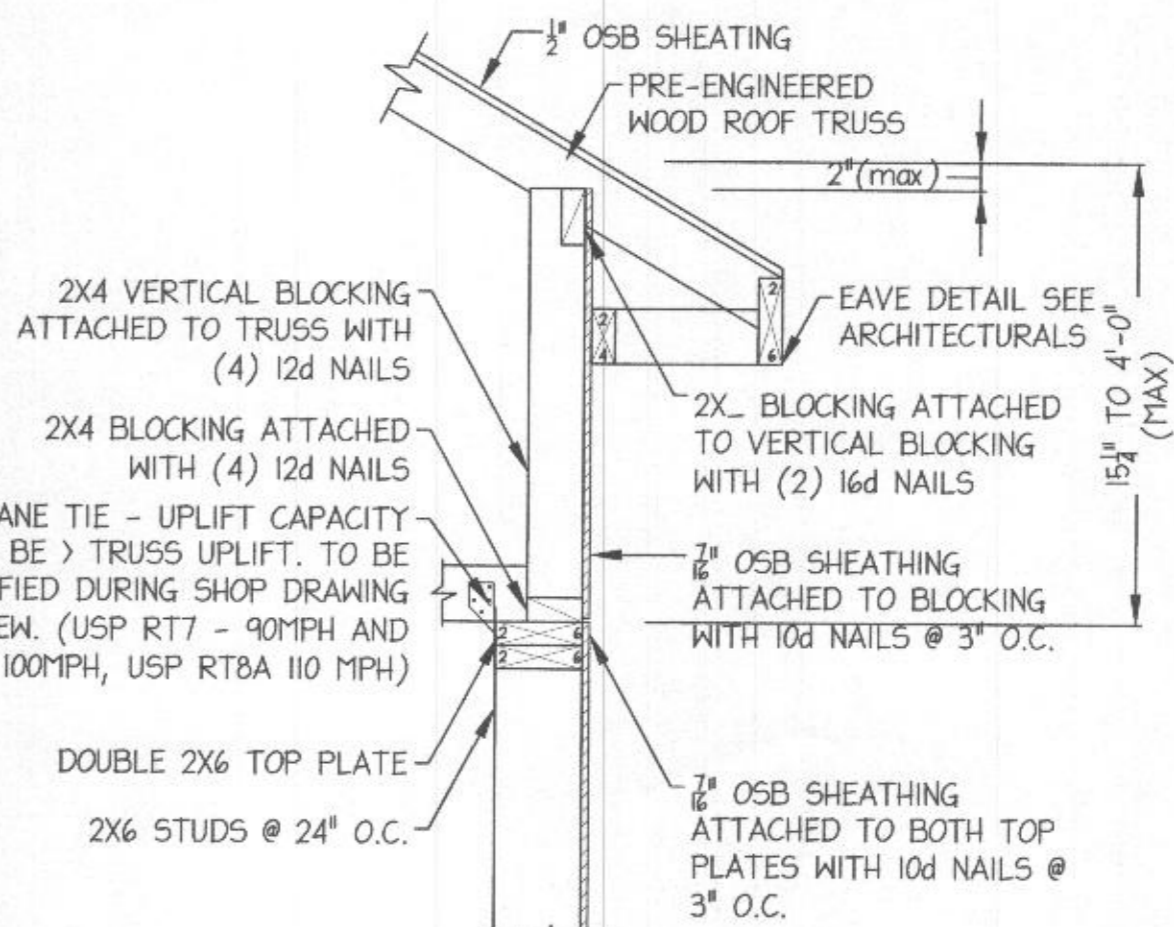
PARALLEL PARTITION DETAIL (TYP) NTS



TYPICAL INTERIOR BRACED WALL CONNECTION DETAILS 3/4" PER FOOT



BRACED WALL / SHEAR WALL PANEL CONNECTION 3/4" PER FOOT HEEL HEIGHT <= 15 1/4"



BRACED WALL / SHEAR WALL PANEL CONNECTION 3/4" PER FOOT HEEL HEIGHT > 15 1/4" TO <= 4'-0"

ARCHITECTURE
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PROPOSED ADDITION

RAO RESIDENCE
5102 Clay Cir Lane,
Clarksville, Maryland 21029

ARCHITECT
Jonathan Rivera AIA, NCARB
Howard County, Maryland

443.226.5745
jrivera@jonathanrivera.com

BUILDER
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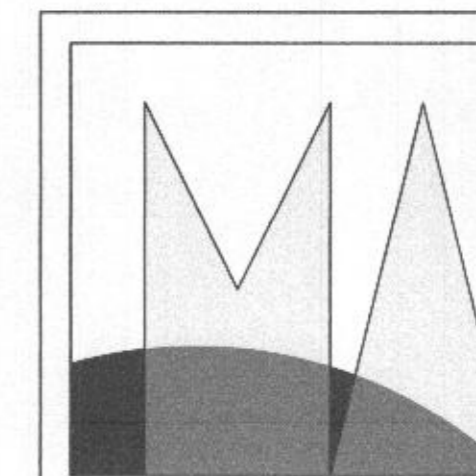
ISSUE DATE

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11-21-22	REVISED DESIGN

SCALE:
STRUCTURAL DETAILS

SD.2

PRINT DATE:
Tuesday, July 19, 2022



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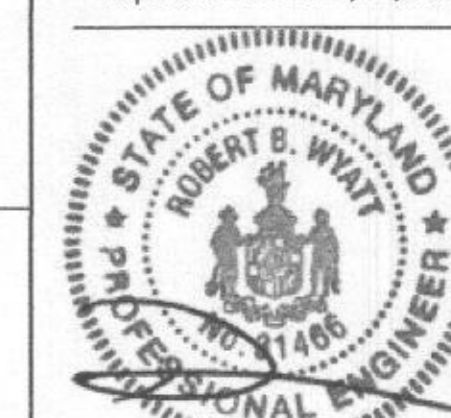
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ARCHITECT
Jonathan Rivera AIA, NCARB
Howard County, Maryland

443.226.5745
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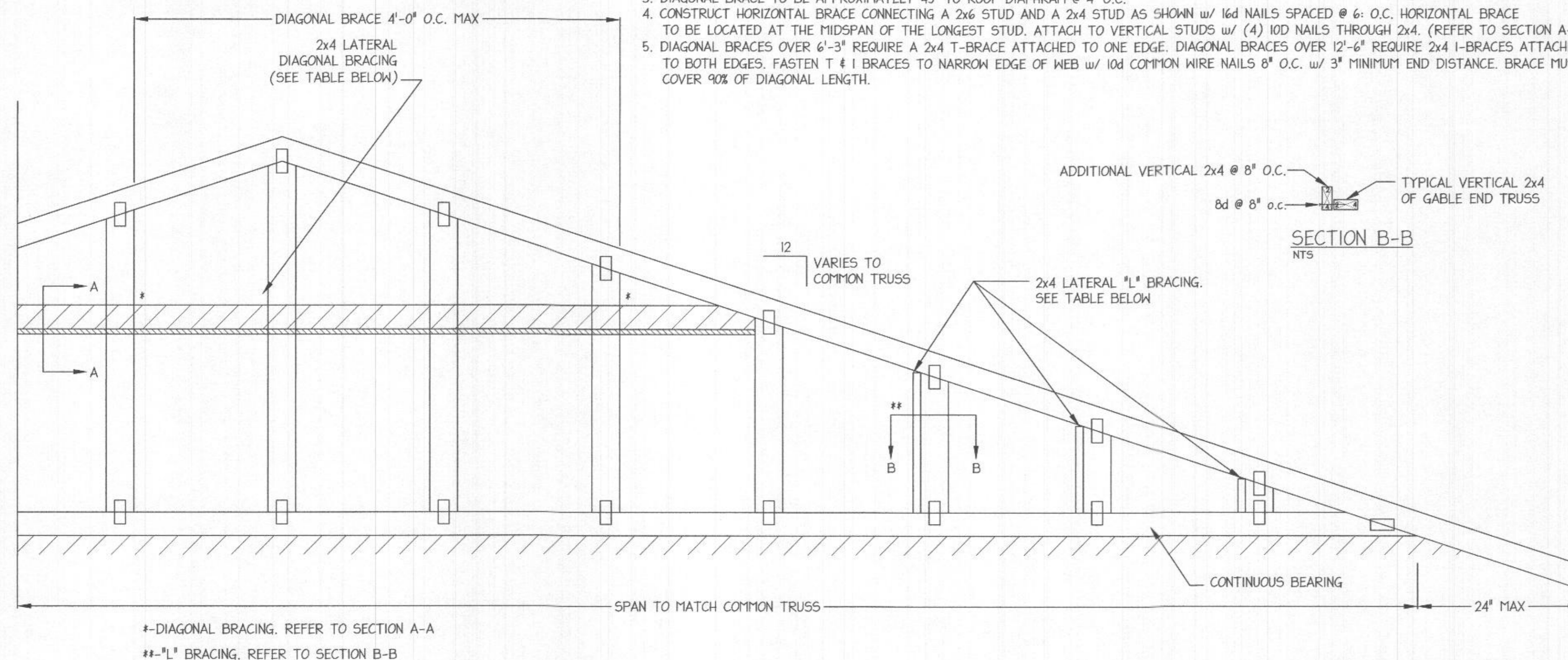
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SCALE:
STRUCTURAL DETAILS

SD.3
PRINT DATE:
Tuesday, July 19, 2022

- NOTE:
- FURNISH A COPY OF THIS DETAIL TO THE SUB-CONTRACTOR BRACING INSTALLATION
 - "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 2x4 STUD OR BETTER w/ 1 ROW OF 10d NAILS SPACED @ 6" O.C.
 - DIAGONAL BRACE TO BE APPROXIMATELY 45° TO ROOF DIAPHRAM @ 4" O.C.
 - CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN w/ 16d NAILS SPACED @ 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS w/ (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
 - DIAGONAL BRACES OVER 6'-3" REQUIRE A 2x4 T-BRACE ATTACHED TO ONE EDGE. DIAGONAL BRACES OVER 12'-6" REQUIRE 2x4 I-BRACES ATTACHED TO BOTH EDGES. FASTEN T & I BRACES TO NARROW EDGE OF WEB w/ 10d COMMON WIRE NAILS 8" O.C. w/ 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF DIAGONAL LENGTH.



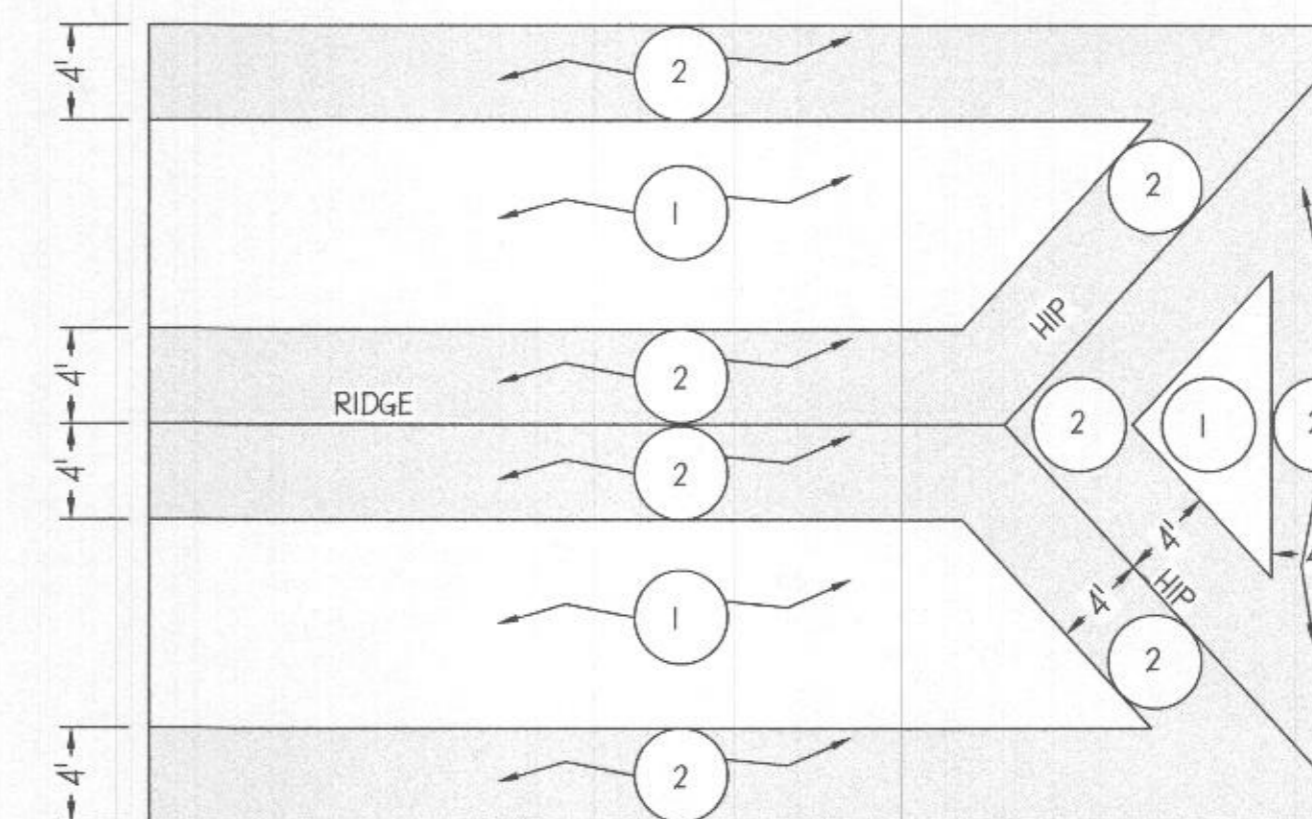
LATERAL BRACING NAILING SCHEDULE

VERTICAL HEIGHT	NUMBER OF NAILS
UP-TO 6'-11"	2-16d
7'-0" & 8'-5"	3-16d
8'-6" & OVER	4-16d

MAXIMUM VERTICAL STUD HEIGHT

SPACING OF VERTICALS	W/O LATERAL BRACE	WITH "L" BRACE	WITH DIAGONAL BRACE	WITH 2 DIAGONAL BRACES AT 1/3 POINTS
12" o.c.	4'-9-3/4"	7'-10"	9'-7-1/2"	14'-5-1/4"
16" o.c.	4'-4-1/2"	6'-9-3/4"	8'-8-3/4"	13'-1-1/4"
24" o.c.	3'-9-1/2"	5'-6-1/2"	7'-7-1/4"	11'-4-3/4"

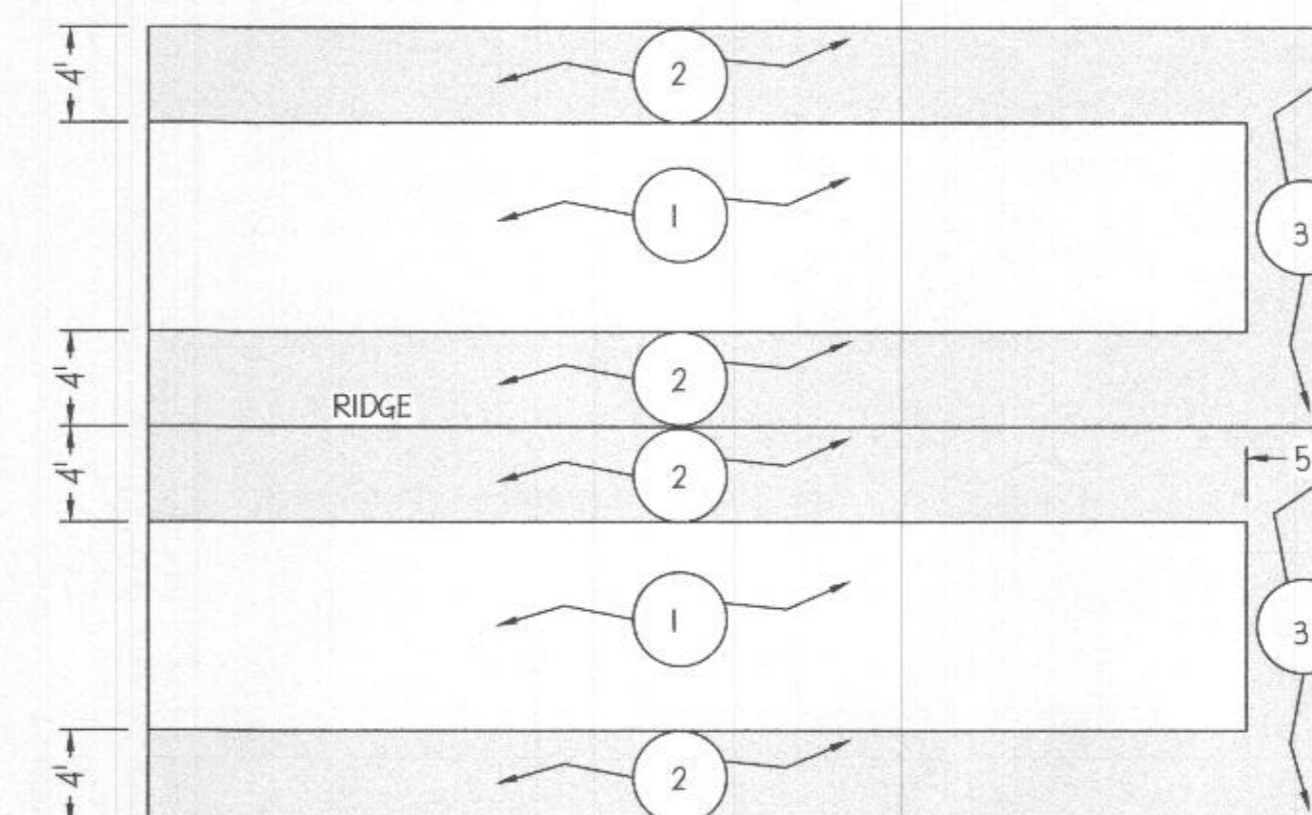
THIS TABLE CANNOT BE USED WITH BRICK VENEER



NAIL SPACING SCHEDULE

ZONE	1		2	
	<10 MPH (3SEC GUST)	≥10 MPH (3SEC GUST)	<10 MPH (3SEC GUST)	≥10 MPH (3SEC GUST)
PANEL EDGE	6" O.C.	4" O.C.	6" O.C.	6" O.C.
PANEL INTERIOR	12" O.C.	6" O.C.	12" O.C.	6" O.C.

NOTE: USE 8d RING SHANK NAILS
PARTIAL ROOF (PLAN VIEW) SHOWING SHEATHING/FASTENING DETAIL



NAIL SPACING SCHEDULE

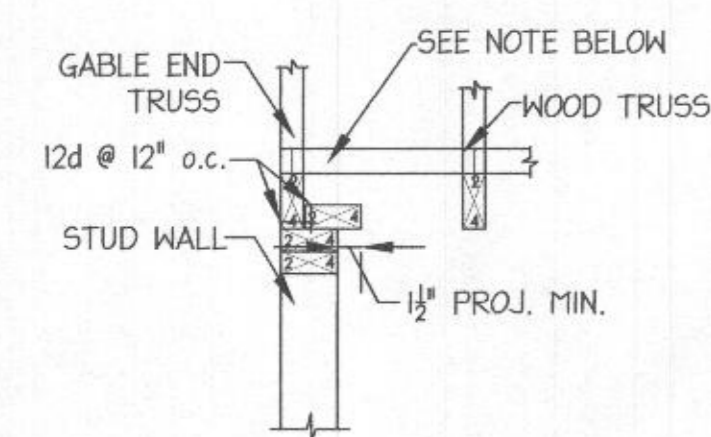
ZONE	1		2		3	
	<10 MPH (3SEC GUST)	≥10 MPH (3SEC GUST)	<10 MPH (3SEC GUST)	≥10 MPH (3SEC GUST)	<10 MPH (3SEC GUST)	≥10 MPH (3SEC GUST)
PANEL EDGE	6" O.C.	4" O.C.	6" O.C.	6" O.C.	6" O.C.	4" O.C.
PANEL INTERIOR	12" O.C.	6" O.C.	12" O.C.	6" O.C.	6" O.C.	6" O.C.

NOTE: USE 8d RING SHANK NAILS

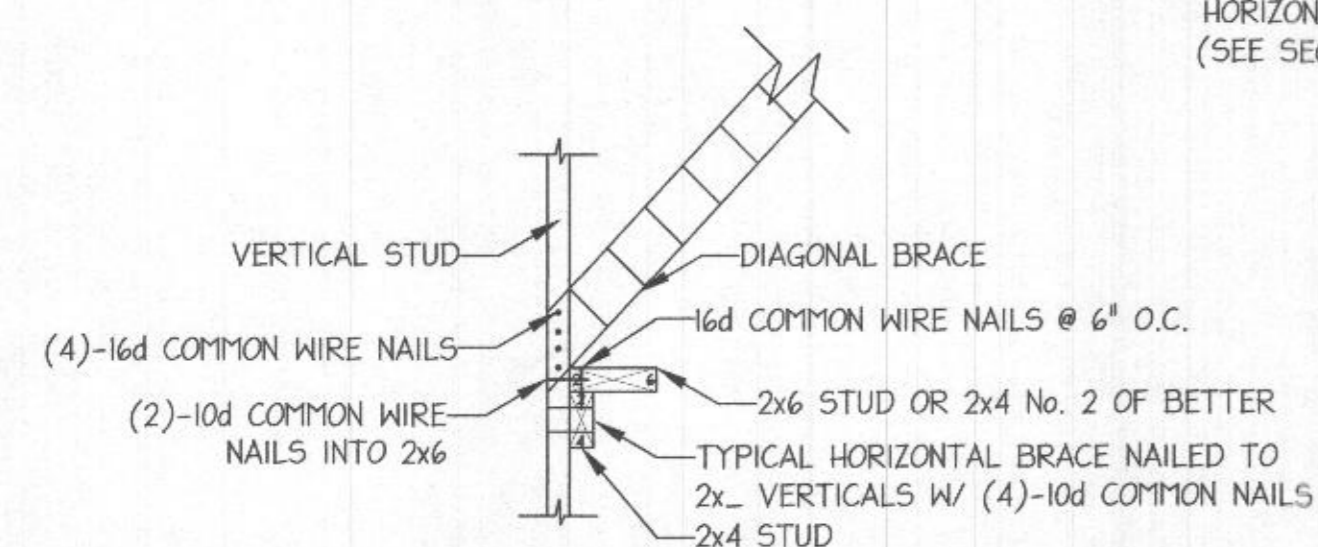
PARTIAL ROOF (PLAN VIEW) SHOWING SHEATHING/FASTENING DETAIL

MAXIMUM WIND SPEED = 100 MPH
MAX MEAN ROOF HEIGHT = 30'-0"
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-98
DURATION OF LOAD INCREASE: 1.60

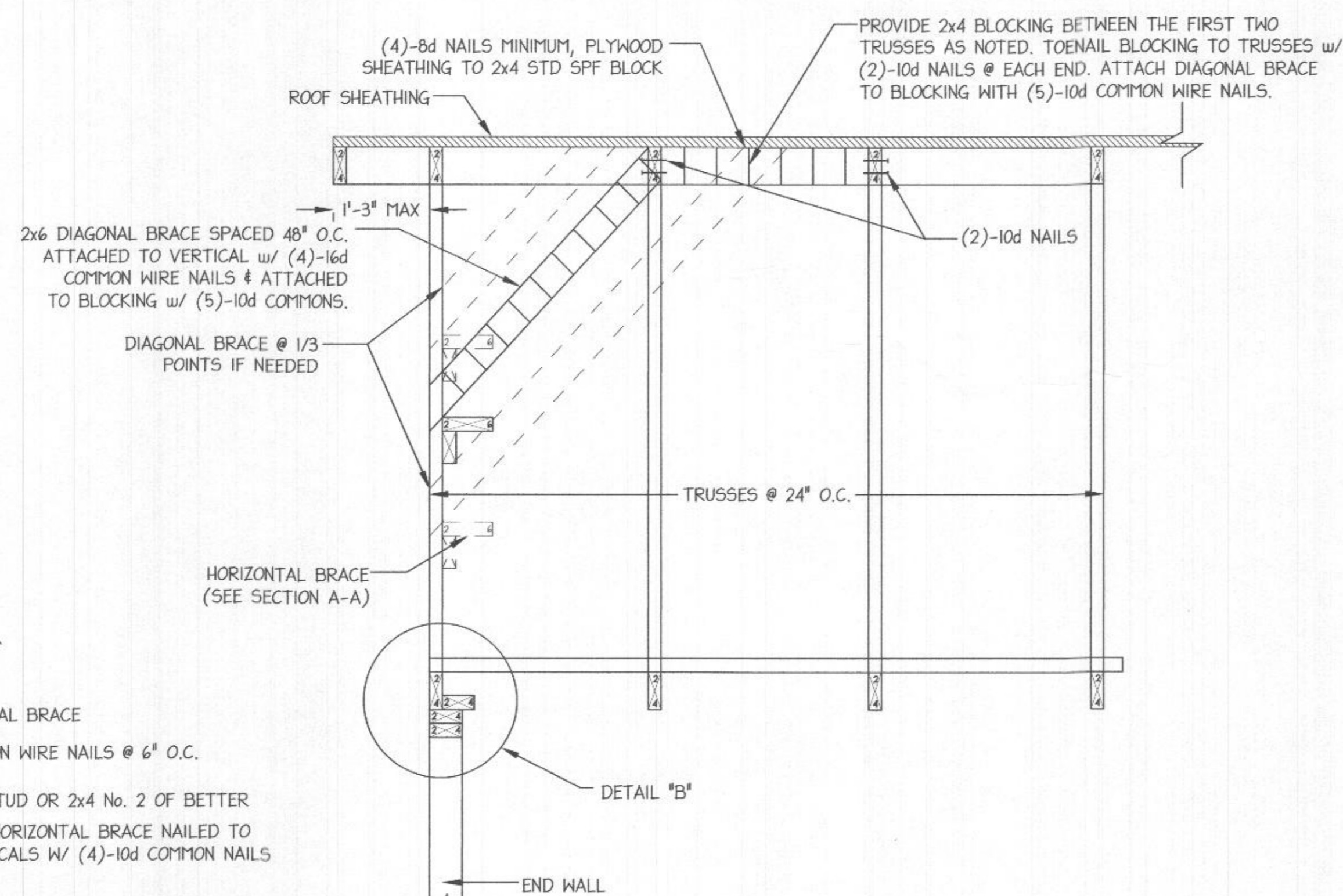
NOTE:
BOTTOM CHORD HORIZONTAL BRACING, 2x4 (FLAT) ATTACHED TO 4 TRUSSES @ 3'-0" o.c. NAIL TO TOP OF EACH BOTTOM CHORD WITH 2-16d NAILS.



DETAIL "B" NTS



SECTION A-A NTS



GABLE END LATERAL BRACING DETAIL NTS