

PROFESSIONAL CERTIFICATION
 I certify that these documents
 were prepared or approved
 by me, and that I am a duly
 licensed professional
 architect under the laws of the
 State of Maryland,
 License Number #31466
 Expiration Date: 2/14/2023.

**PROPOSED
 RESIDENCE**

**FIELDS
 RESIDENCE**

Henryton Road
 Marriottsville, Maryland
 21104

ARCHITECT
 Jonathan Rivera AIA, NCARB
 Howard County, Maryland

443.226.5745
 jrvera@jonathanrivera.com

BUILDER

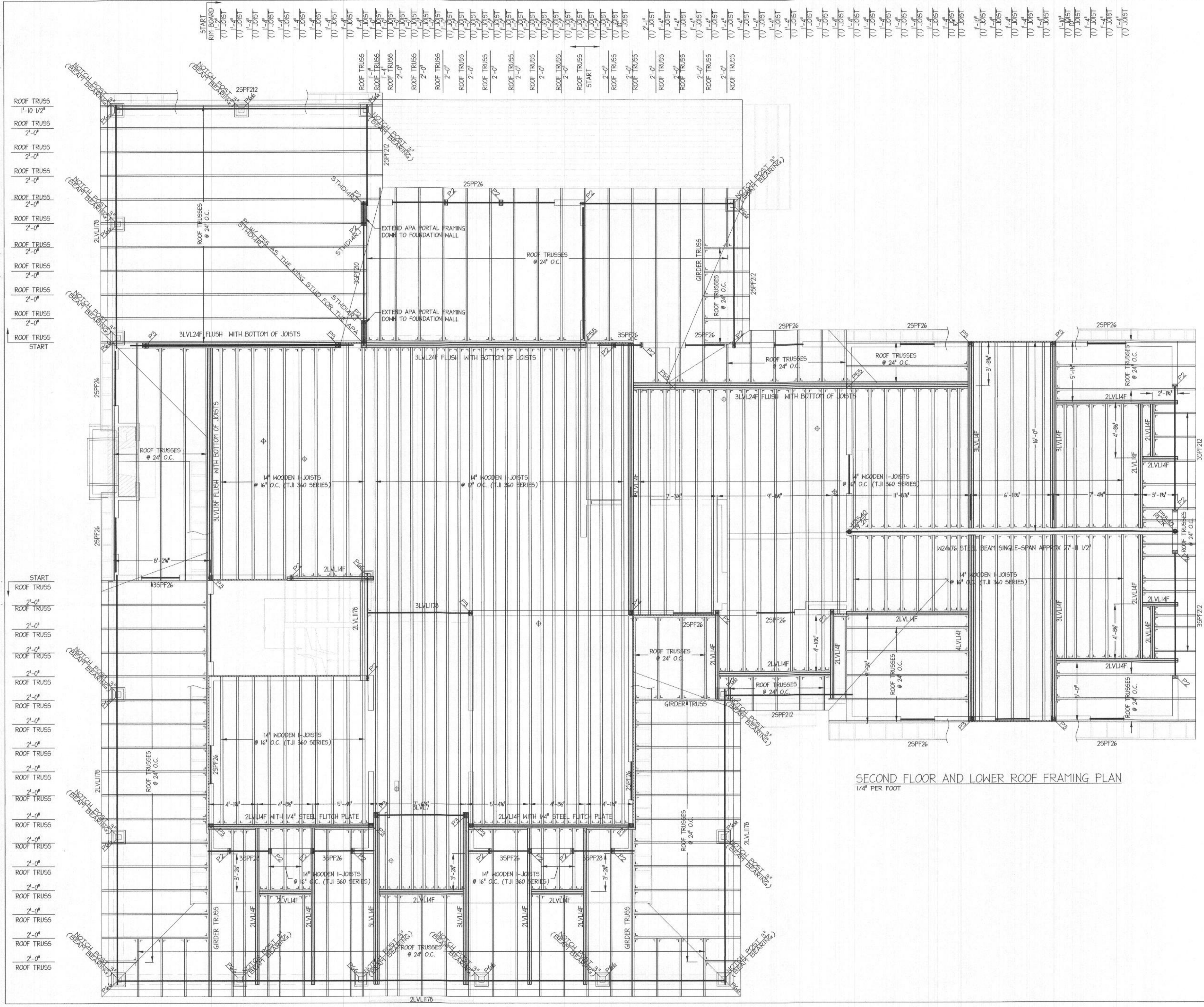
ISSUE DATE

9-24-21 PERMIT SET

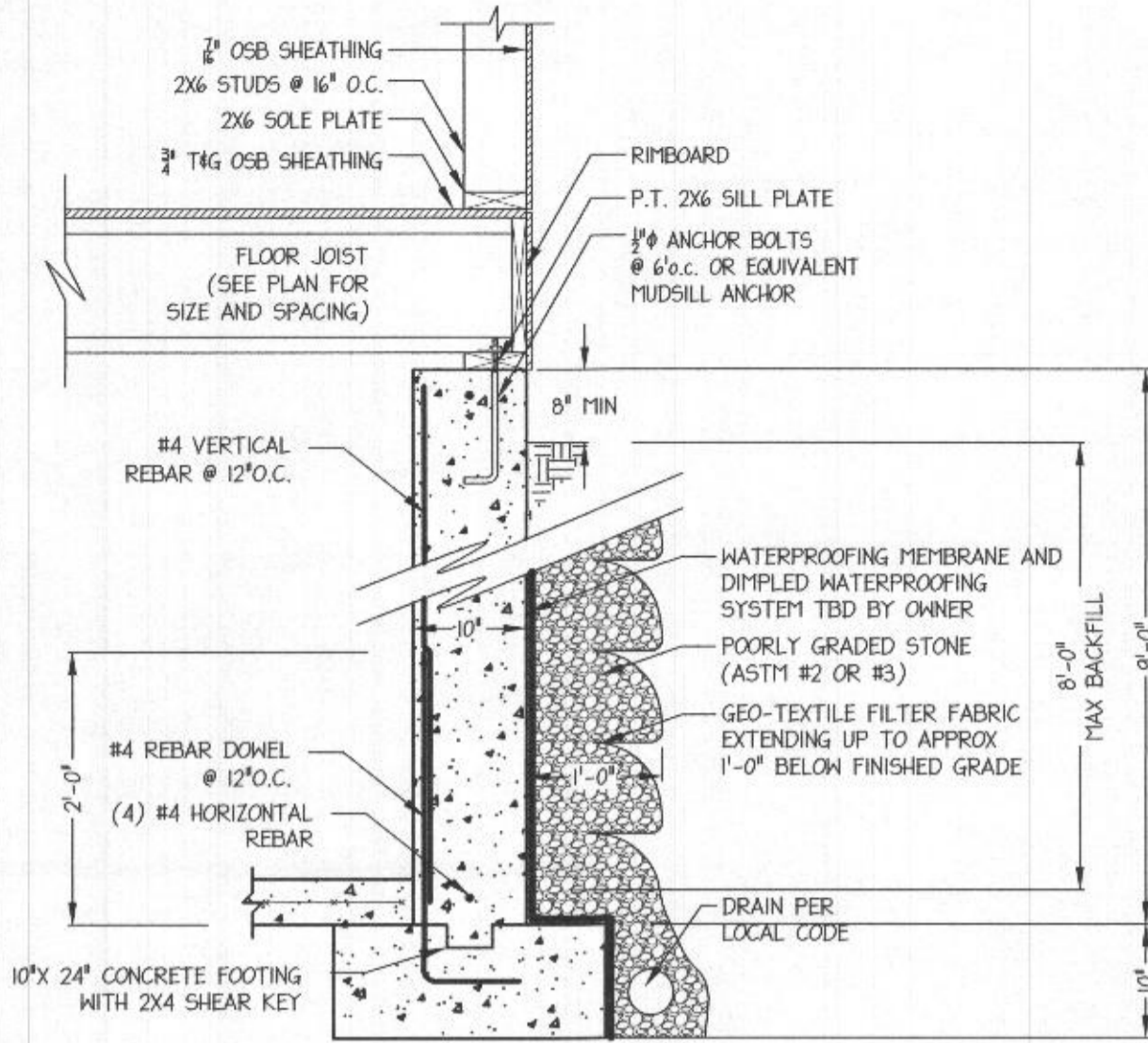
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2nd FLR FRAMING

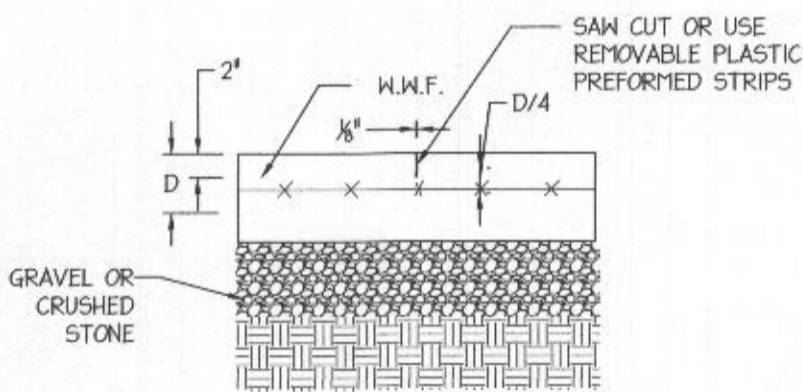
S1.2
 PRINT DATE:
 Friday, January 7, 2022



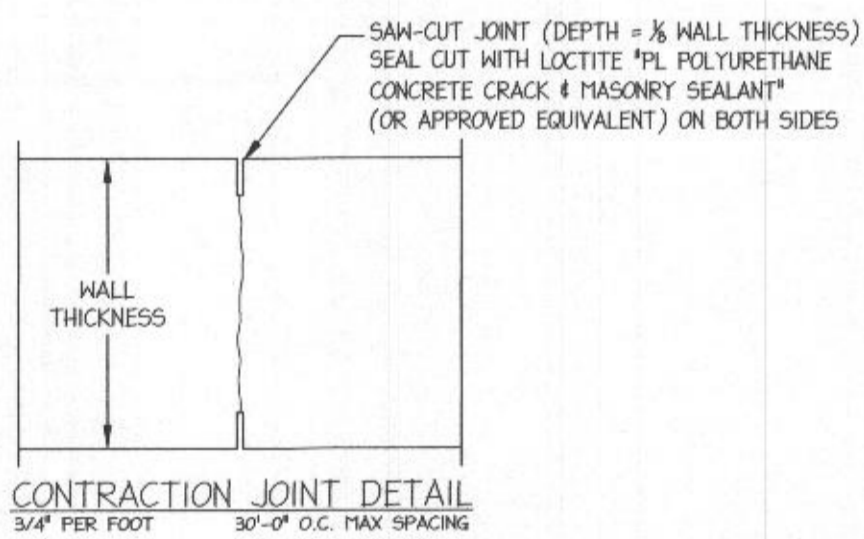
**FOUNDATION DESIGN
BASED ON ACI 332**



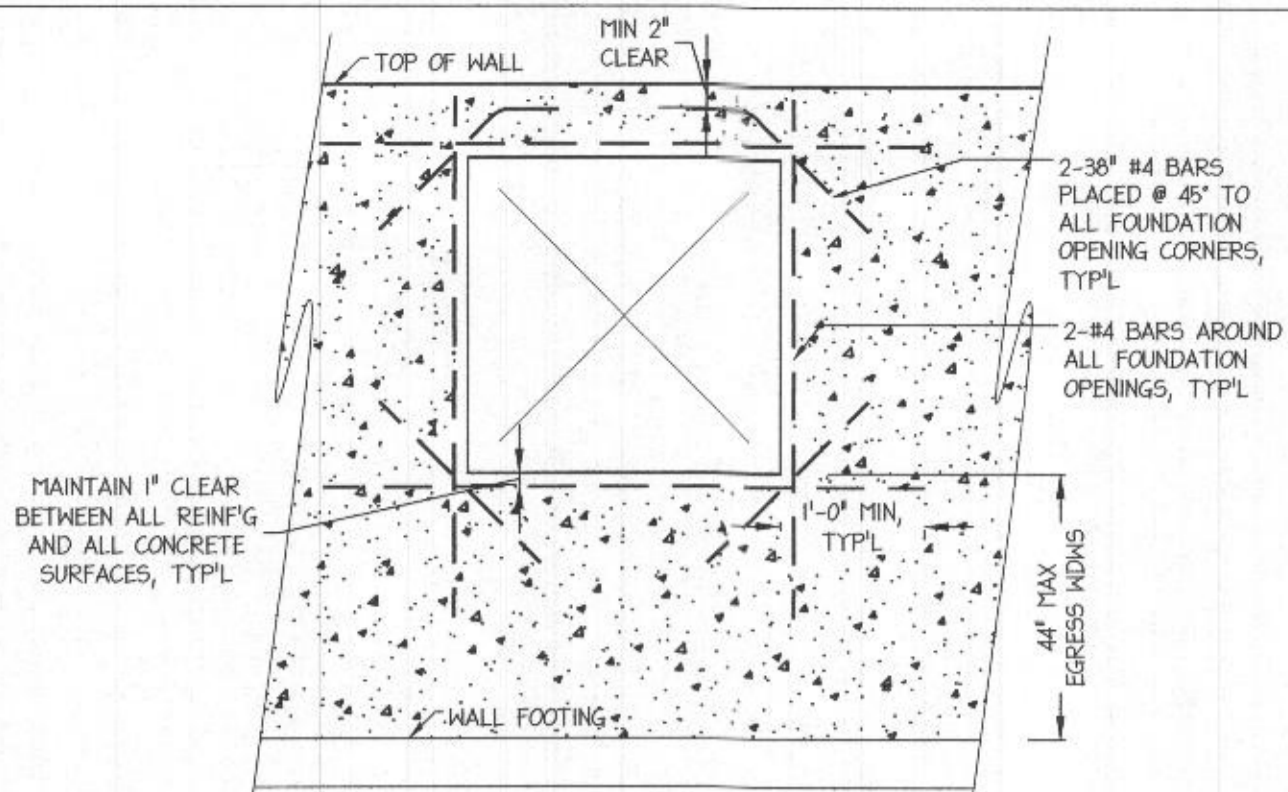
TYPICAL FOUNDATION WALL
3/4" PER FOOT



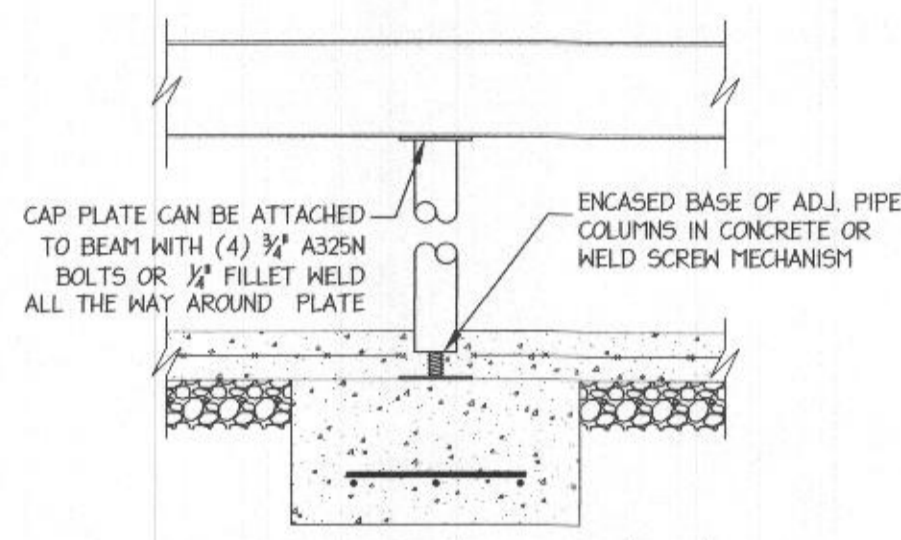
SAW CUT CONTROL JOINT DETAIL (TYP.)
NTS



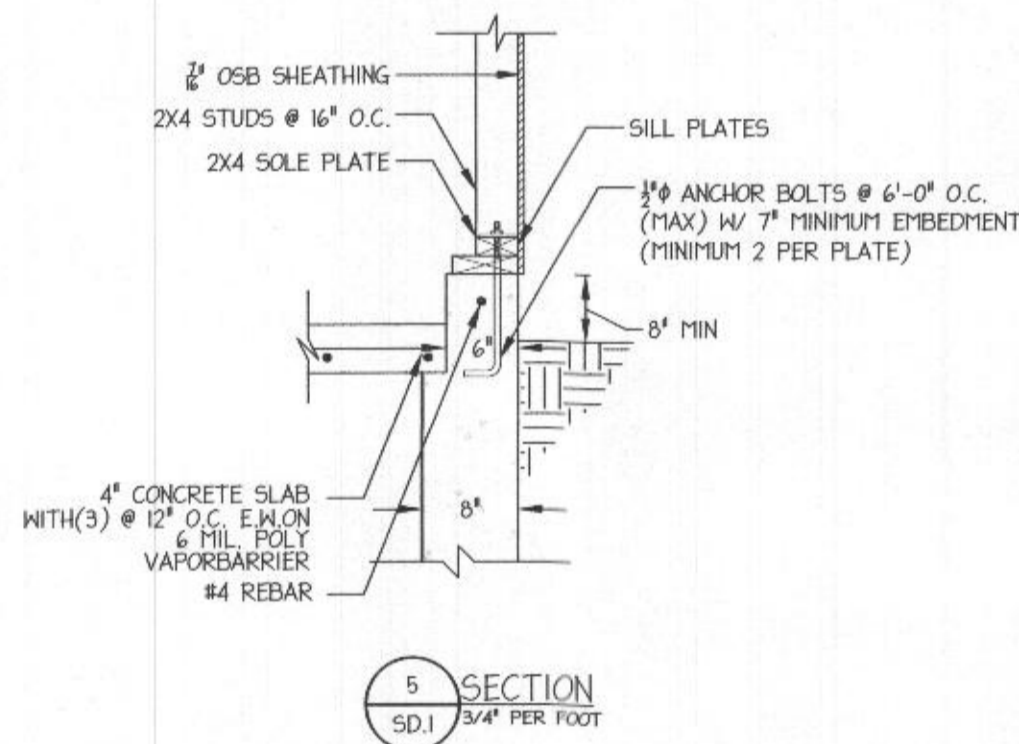
CONTRACTION JOINT DETAIL
3/4" PER FOOT



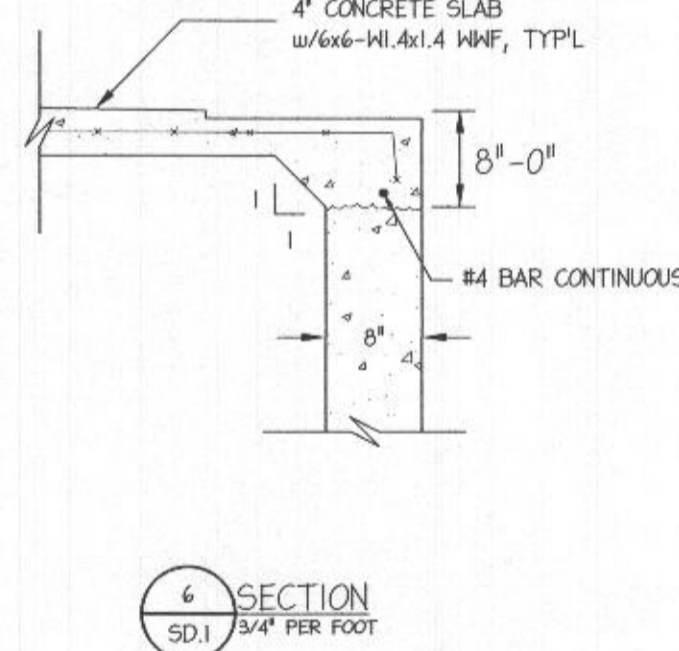
WALL OPENING DETAIL (TYP.)
NTS



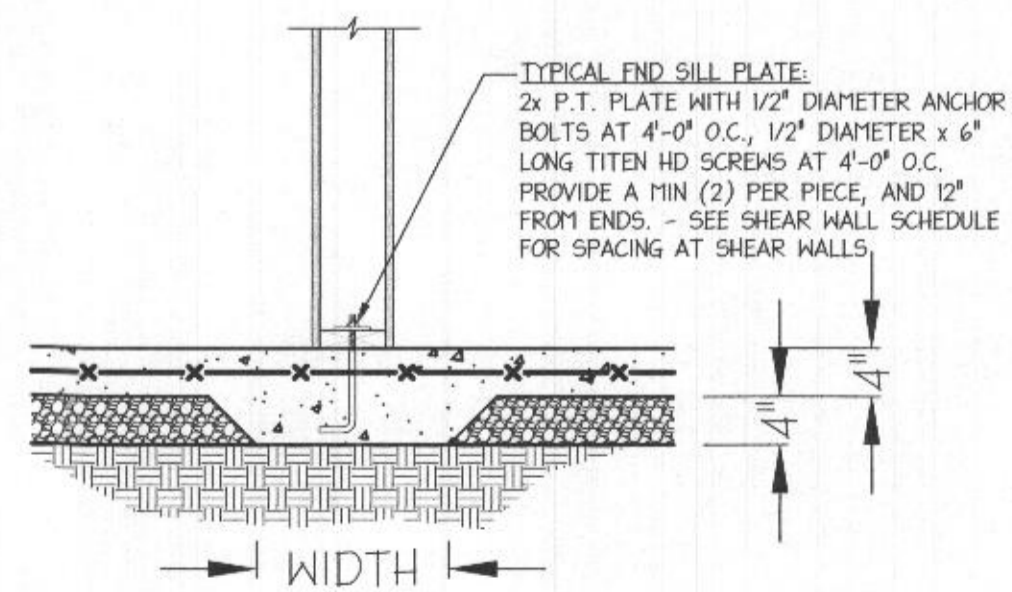
STEEL POST CONNECTIONS (TYP.)
3/4" PER FOOT



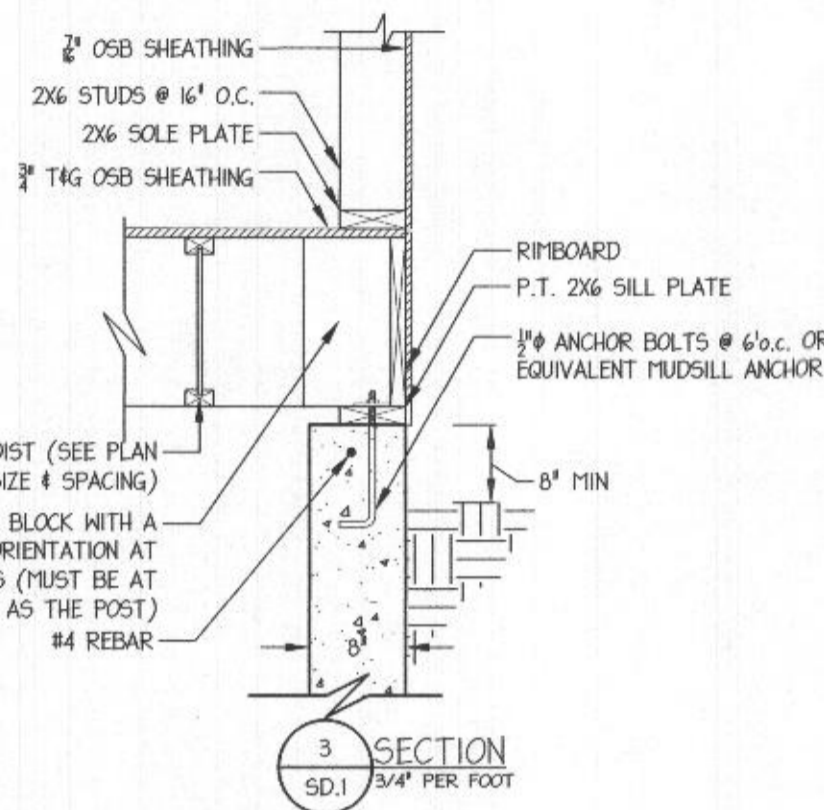
5 SECTION
SD.1 3/4" PER FOOT



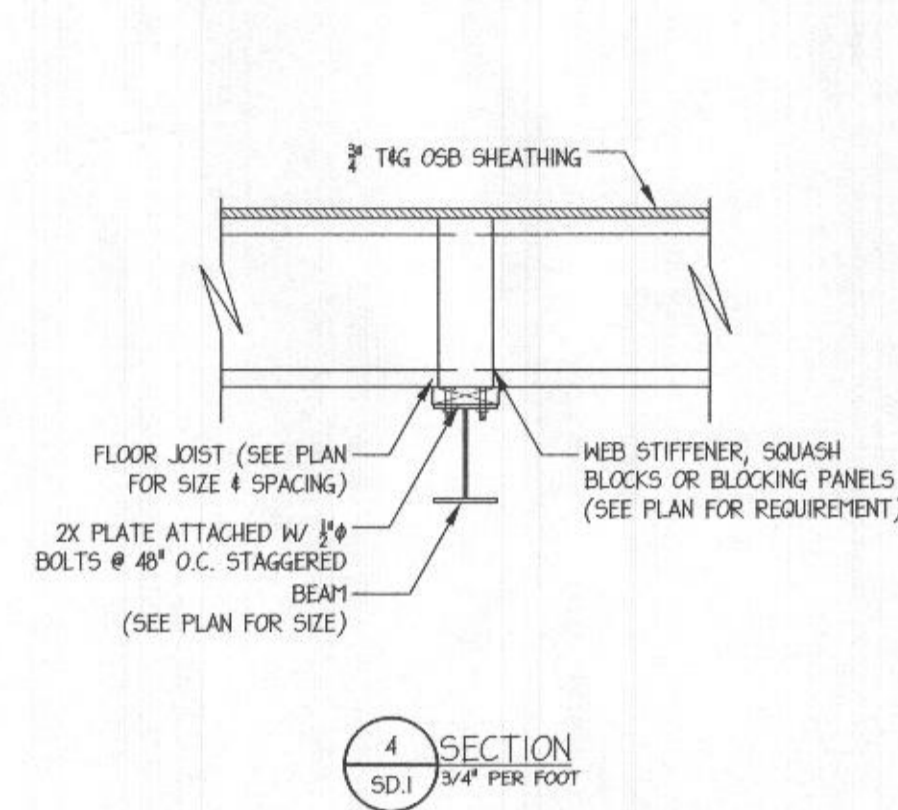
6 SECTION
SD.1 3/4" PER FOOT



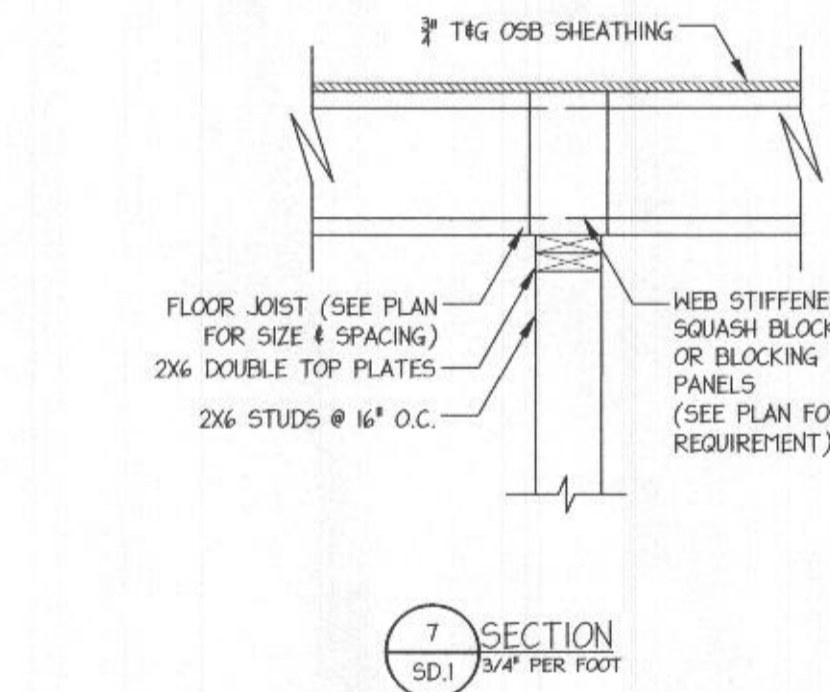
SECTION @ THICKENED SLAB (TYP.)
3/4" PER FOOT



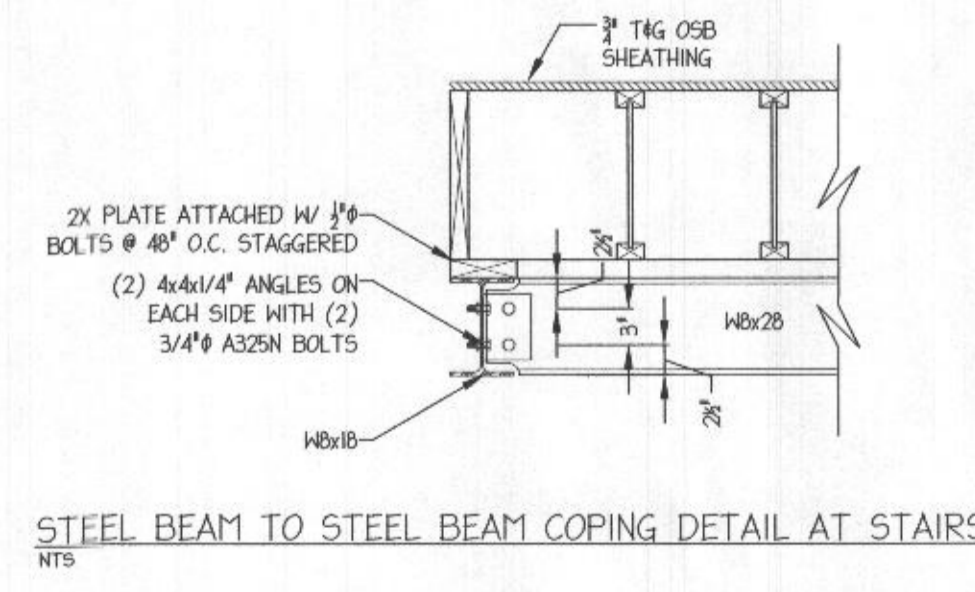
3 SECTION
SD.1 3/4" PER FOOT



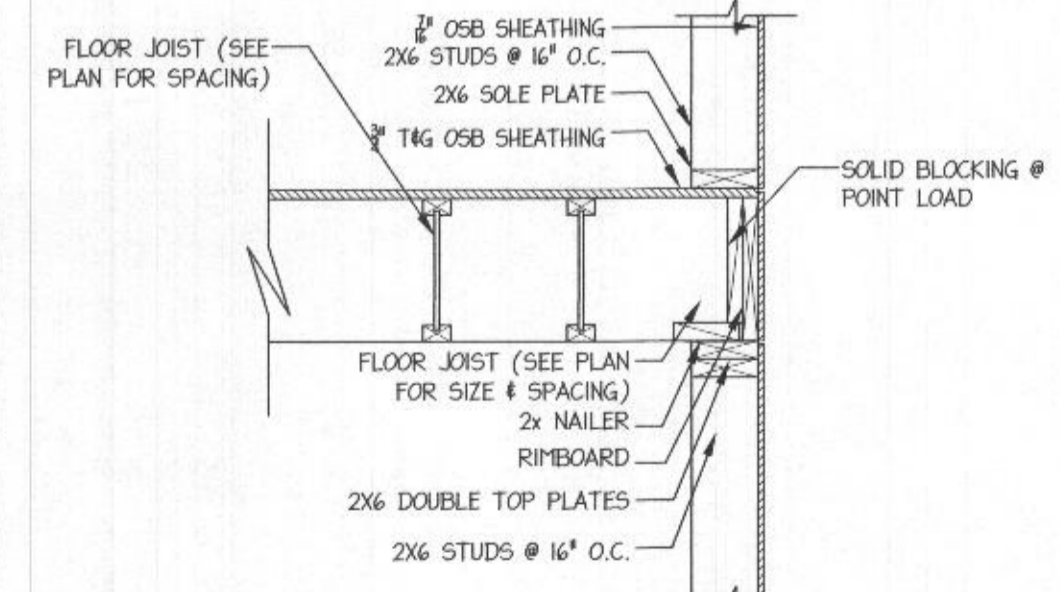
4 SECTION
SD.1 3/4" PER FOOT



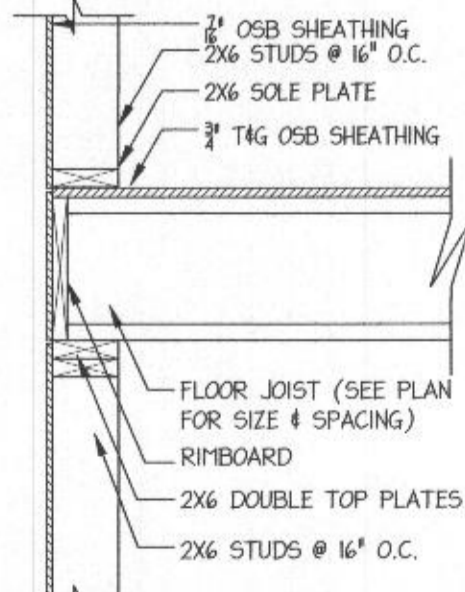
7 SECTION
SD.1 3/4" PER FOOT



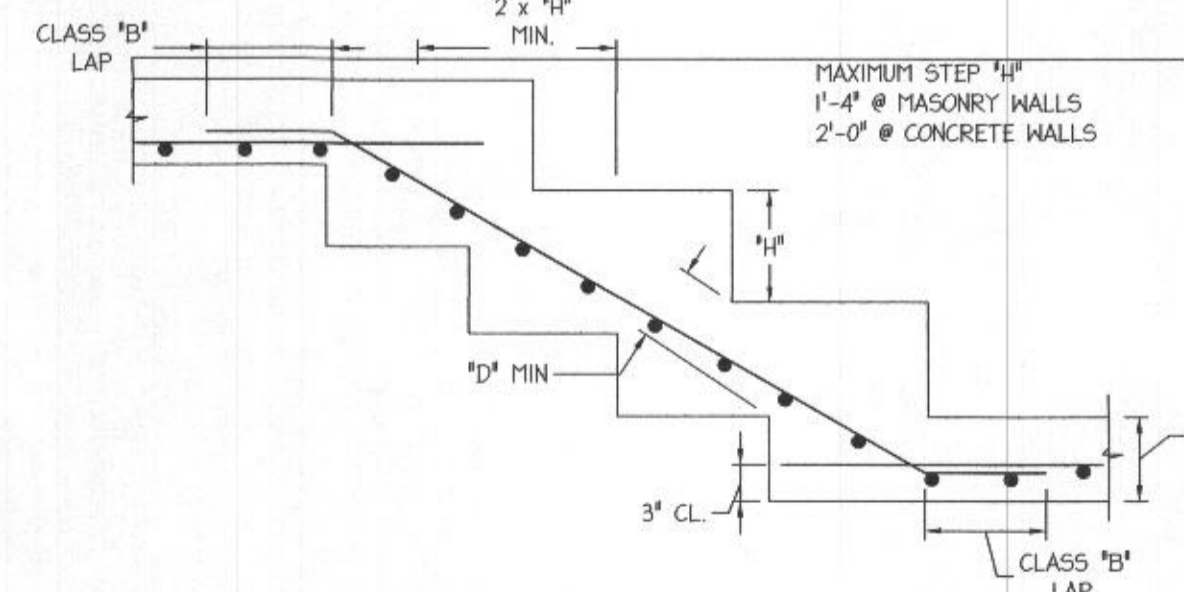
STEEL BEAM TO STEEL BEAM COPING DETAIL AT STAIRS
NTS



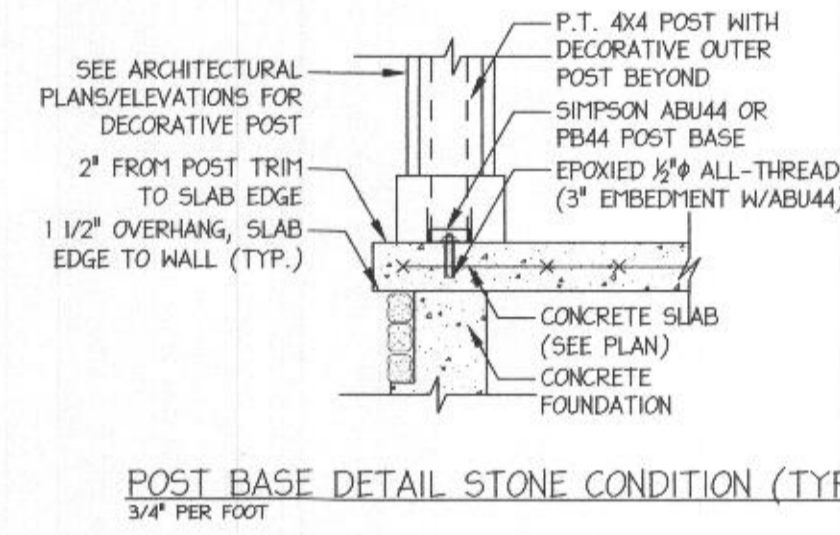
8 SECTION
SD.1 3/4" PER FOOT



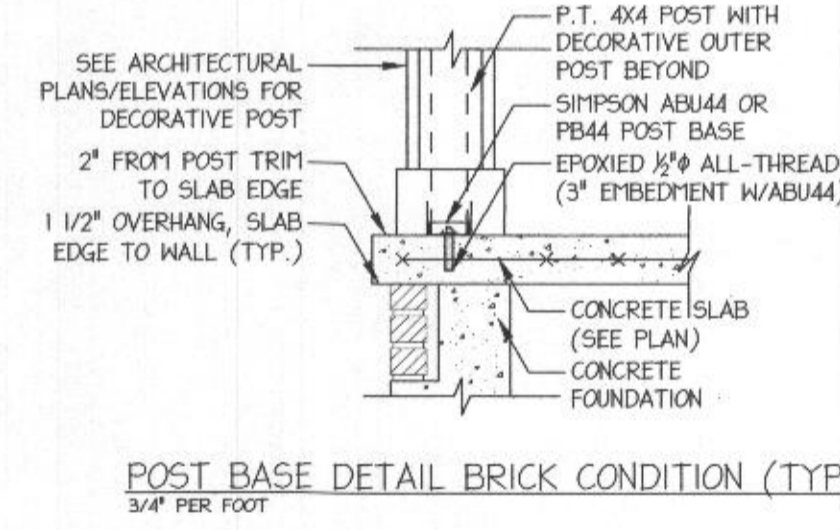
9 SECTION
SD.1 3/4" PER FOOT



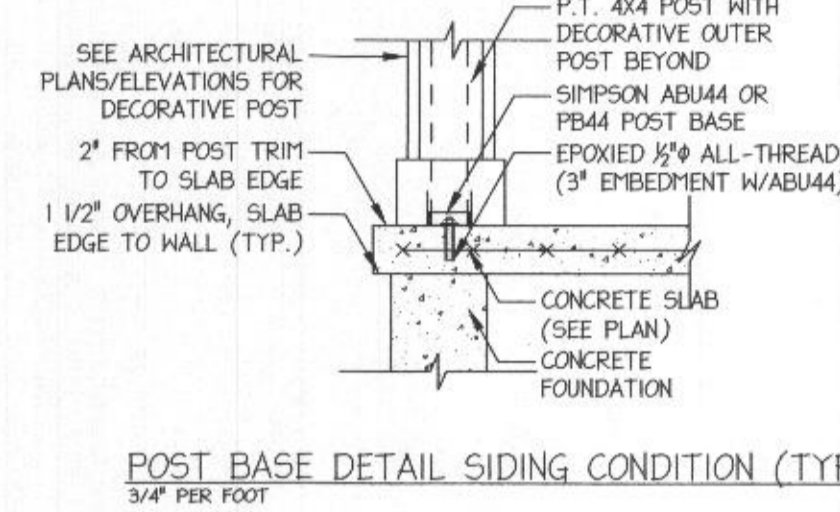
STEP FOOTING DETAIL (TYP.)
NTS



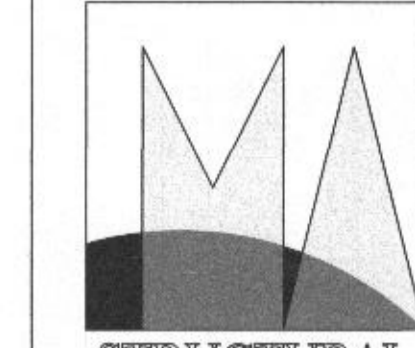
POST BASE DETAIL SIDING CONDITION (TYP.)
3/4" PER FOOT



POST BASE DETAIL BRICK CONDITION (TYP.)
3/4" PER FOOT



POST CAP DETAIL (TYP.)
3/4" PER FOOT



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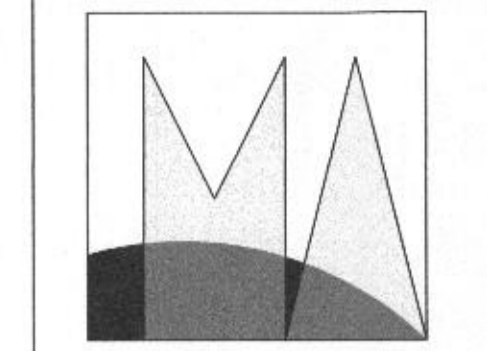
9-24-21	PERMIT SET

SCALE:

DETAILS

SD.1

PRINT DATE:
Friday, January 7, 2022



STRUCTURAL ENGINEERING
MID-ATLANTIC
STRUCTURAL ENGINEERING
1885 WILLOW GROVE ROAD
MONROEVILLE, NJ 08343
(717) 504-8407
www.midatl-se.com

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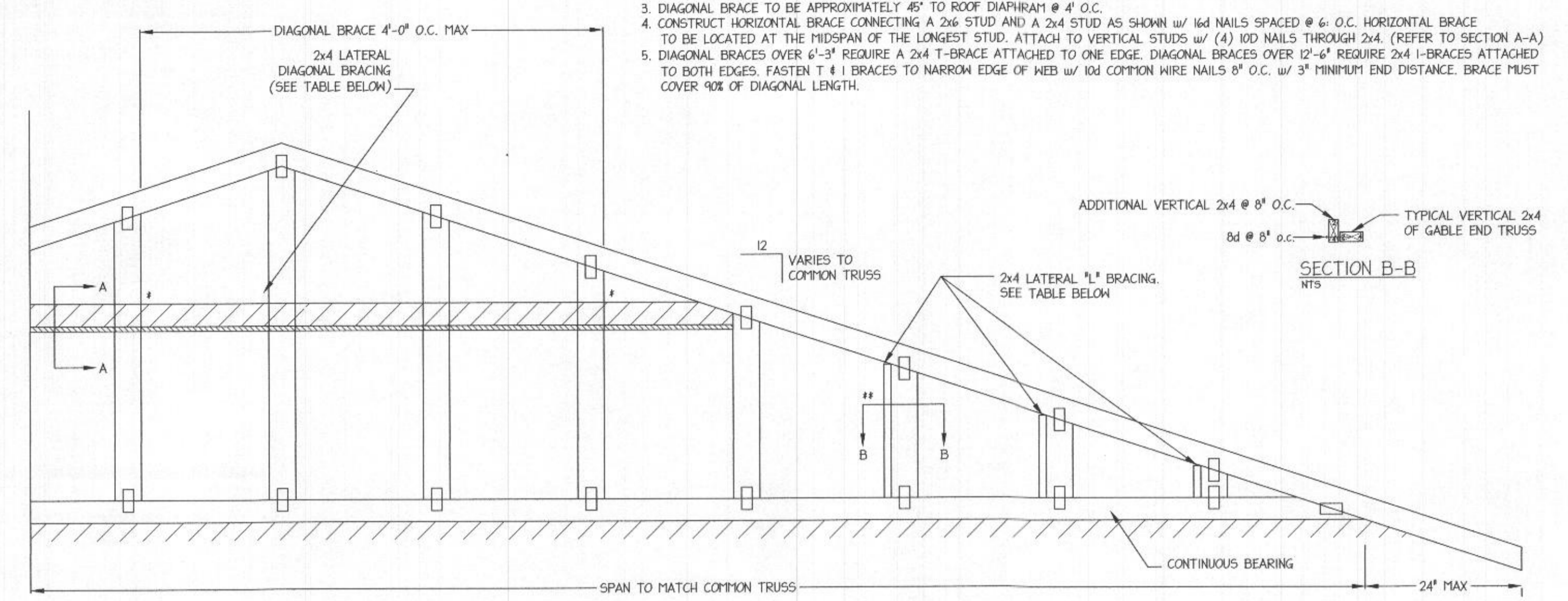
- ▲ 9-24-21 PERMIT SET
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SCALE:
DETAILS

SD.2

PRINT DATE:
Friday, January 7, 2022

- NOTE:
1. FURNISH A COPY OF THIS DETAIL TO THE SUB-CONTRACTOR BRACING INSTALLATION
2. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, GRADES: 2x4 STUD OR BETTER w/ 1 ROW OF 10d NAILS SPACED @ 6" O.C.
3. DIAGONAL BRACE TO BE APPROXIMATELY 45° TO ROOF DIAPHRAGM @ 4" O.C.
4. 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)
5. DIAGONAL BRACES OVER 6'-3" REQUIRE A 2x4 T-BRACE ATTACHED TO ONE EDGE. DIAGONAL BRACES OVER 12'-6" REQUIRE 2x4 L-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

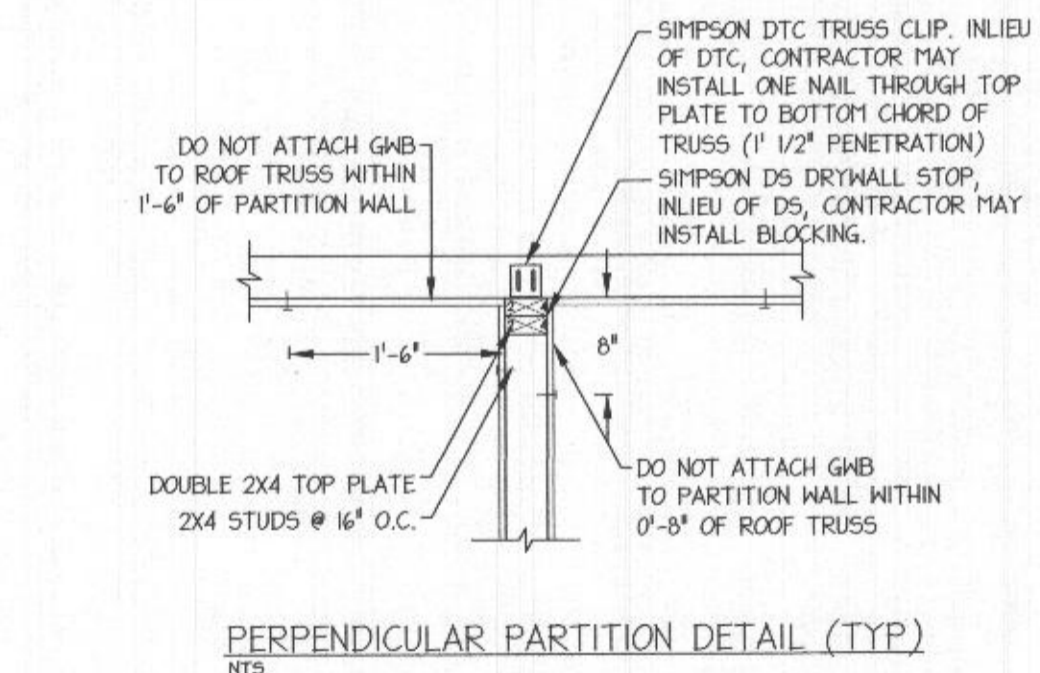
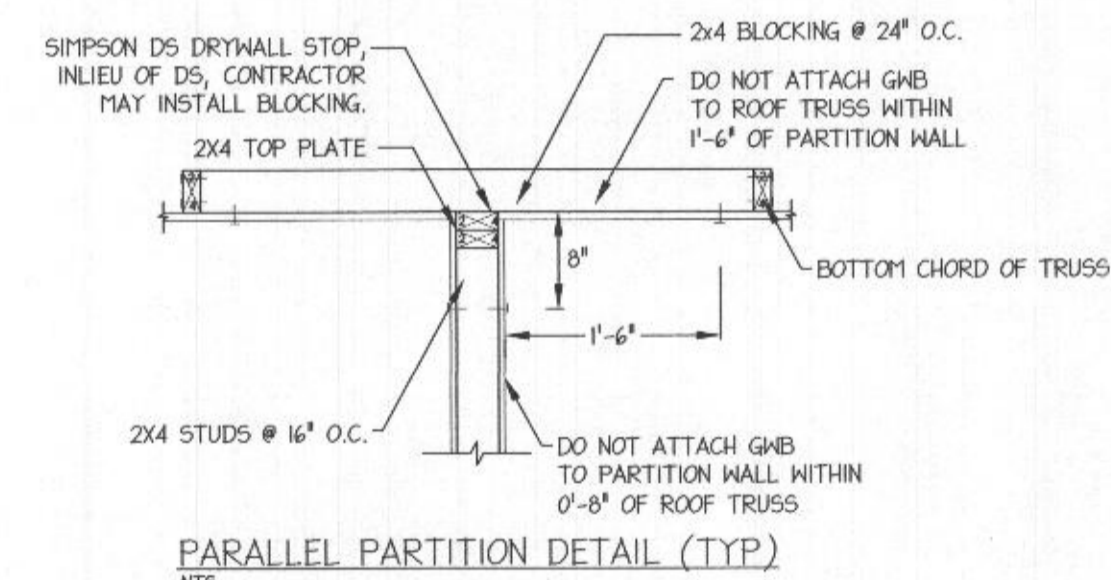
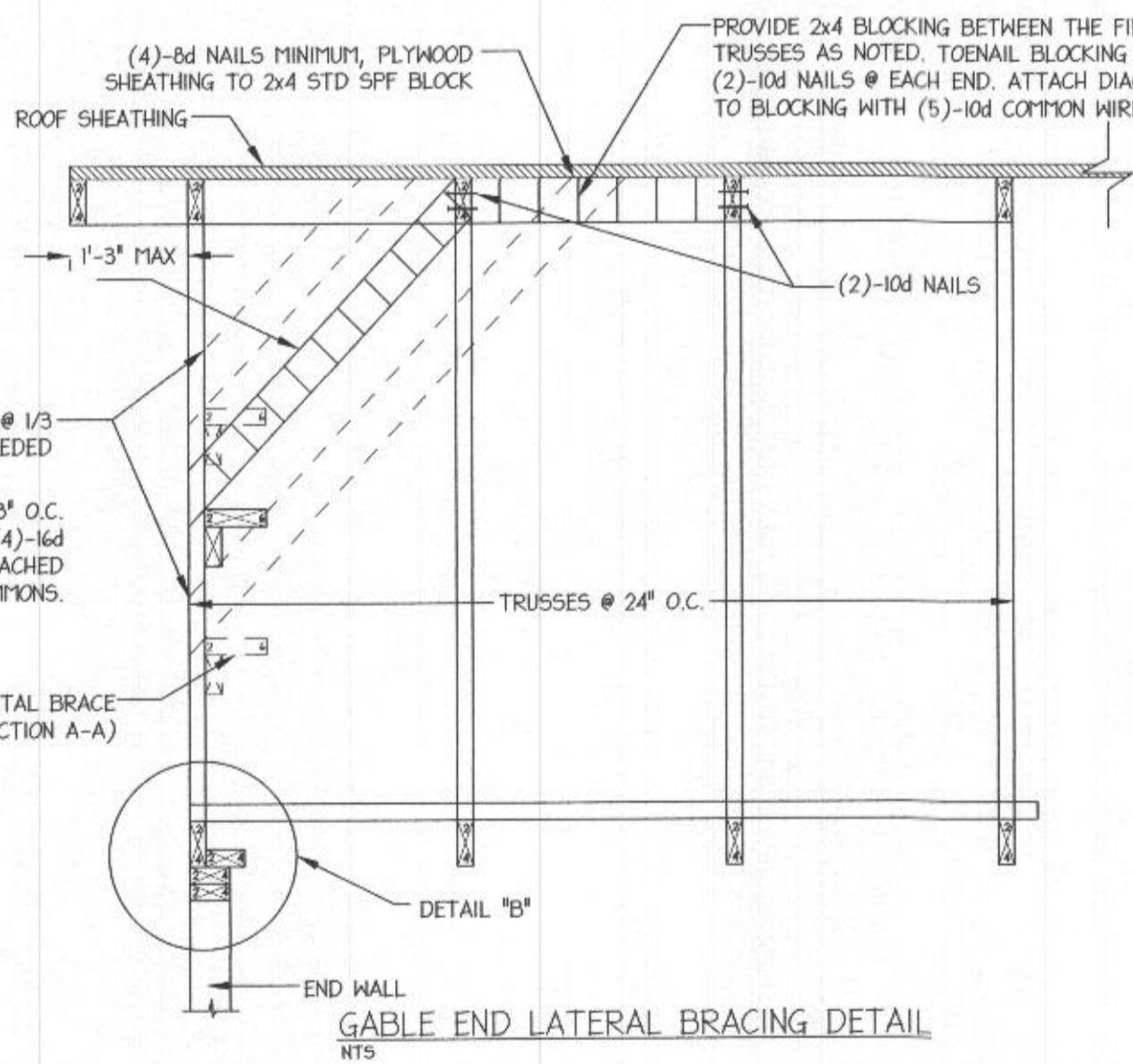
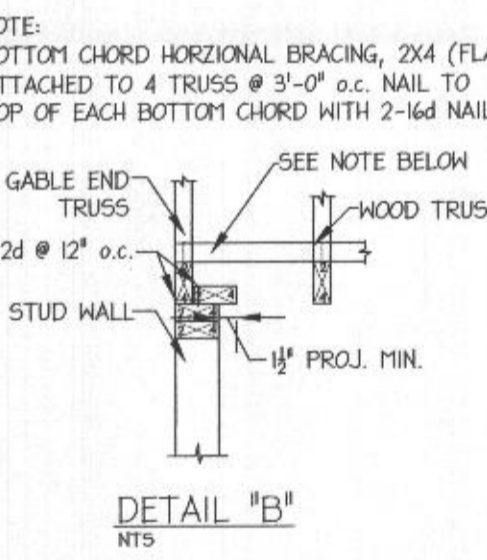
VERTICAL HEIGHT	NUMBER OF NAILS
UP-TO 6'-11"	2-16d
7'-0" & 8'-5"	3-16d
8'-6" & OVER	4-16d

MAXIMUM VERTICAL STUD HEIGHT

SPACING OF VERTICALS	W/O LATERAL BRACE	WITH "L" BRACE	WITH DIAGONAL BRACE	WITH 2 DIAGONAL BRACES AT 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

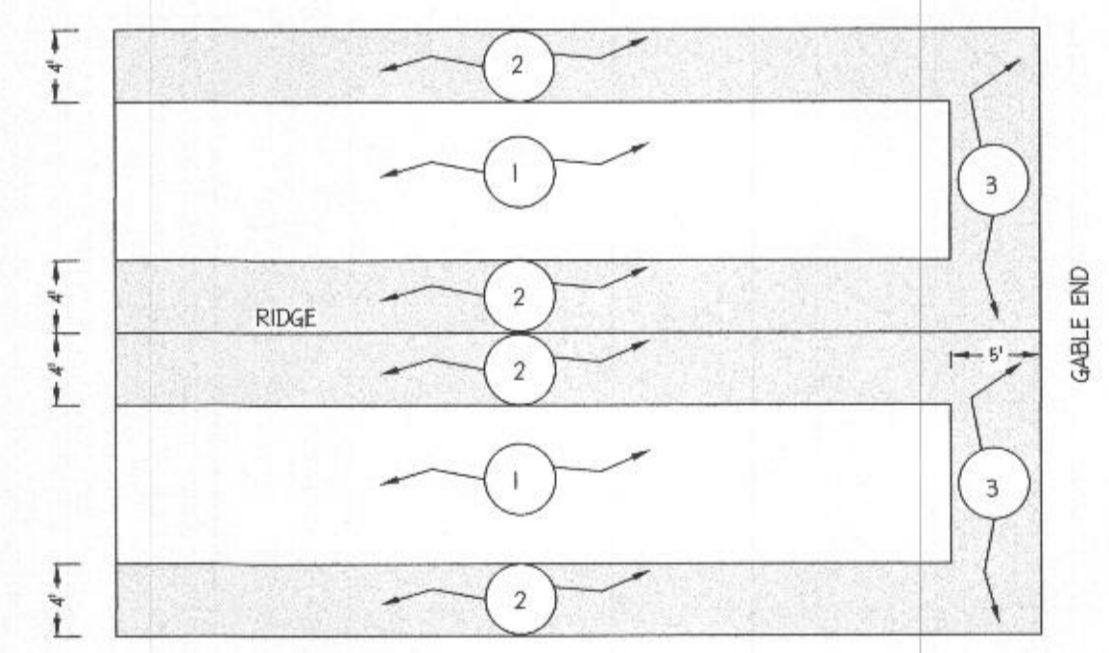
MAXIMUM WIND SPEED = 100 MPH
MAX MEAN ROOF HEIGHT = 30'-0"
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-16
DURATION OF LOAD INCREASE: 1.60



NAIL SPACING SCHEDULE

ZONE	1		2	
	010 MPH (35EC GUST)	310 MPH (35EC GUST)	010 MPH (35EC GUST)	310 MPH (35EC 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.

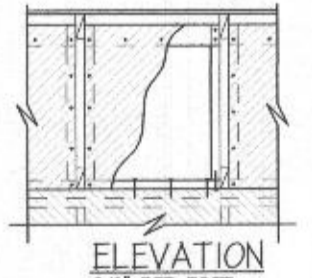
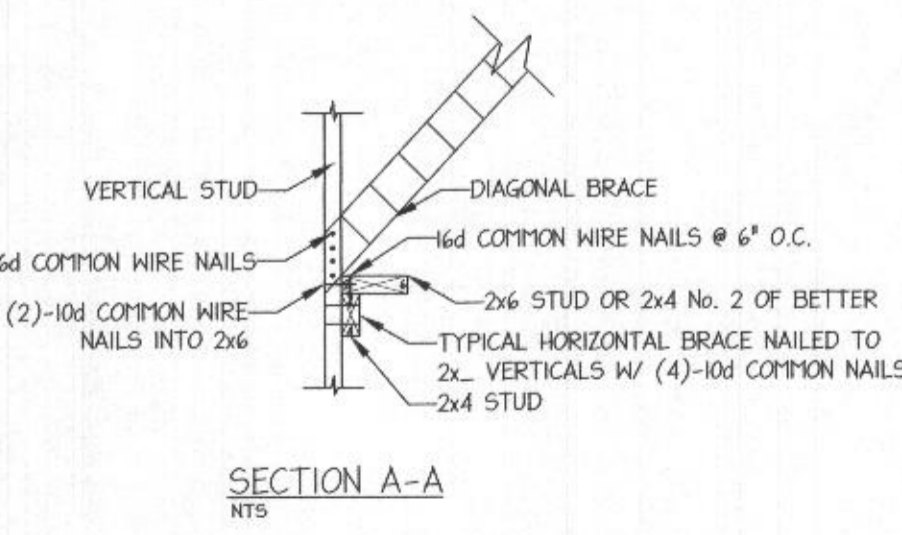
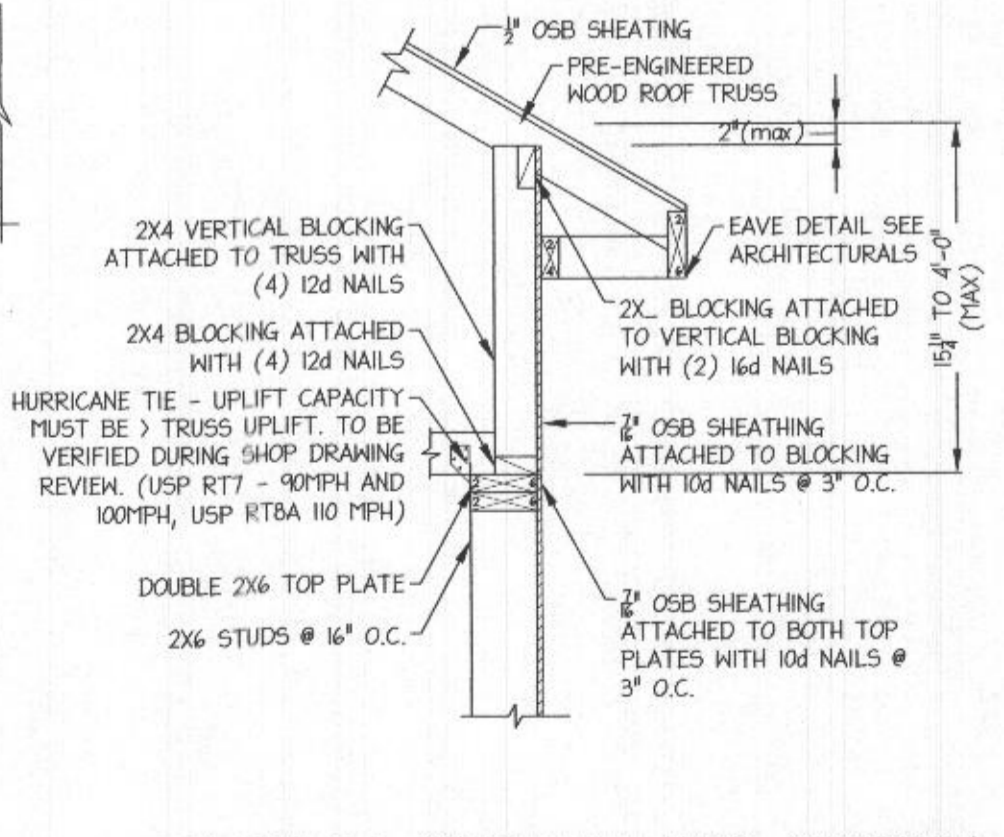
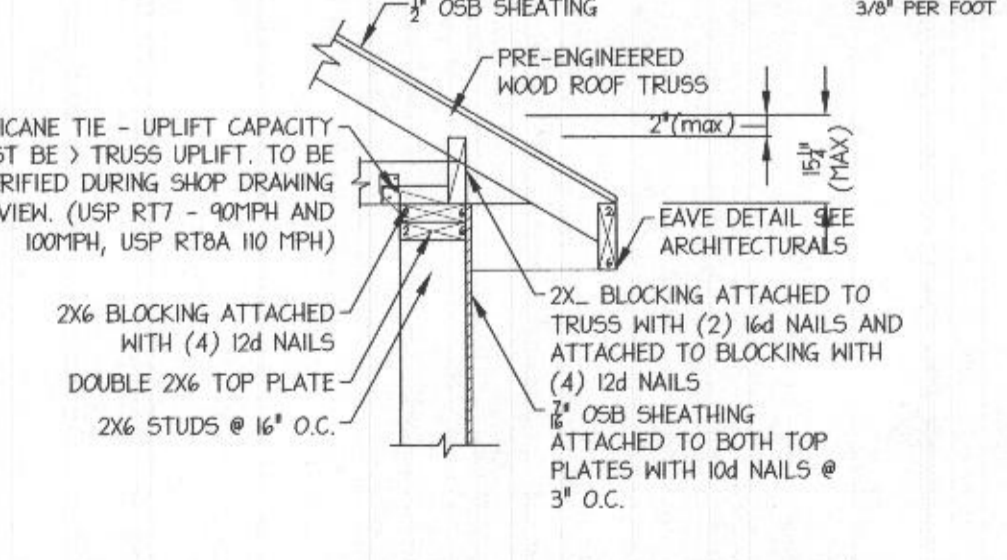
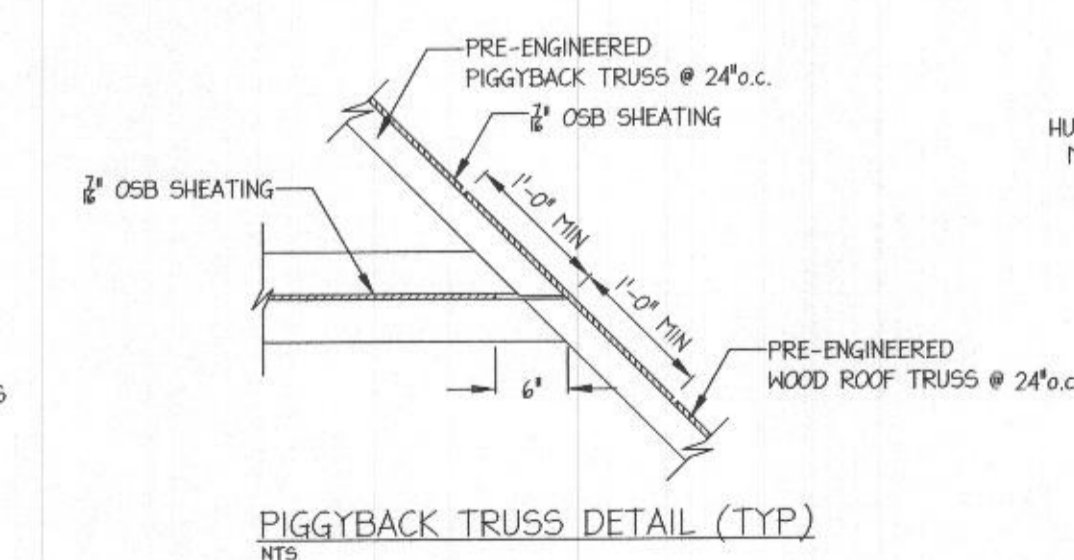
NOTE: USE 6d RING SHANK NAILS
PARTIAL ROOF (PLAN VIEW) SHOWING SHEATHING/FASTENING DETAIL

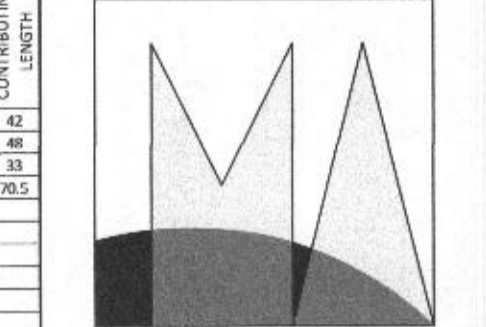


NAIL SPACING SCHEDULE

ZONE	1		2		3	
	010 MPH (35EC GUST)	310 MPH (35EC GUST)	010 MPH (35EC GUST)	310 MPH (35EC GUST)	010 MPH (35EC GUST)	310 MPH (35EC 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 6d RING SHANK NAILS
PARTIAL ROOF (PLAN VIEW) SHOWING SHEATHING/FASTENING DETAIL





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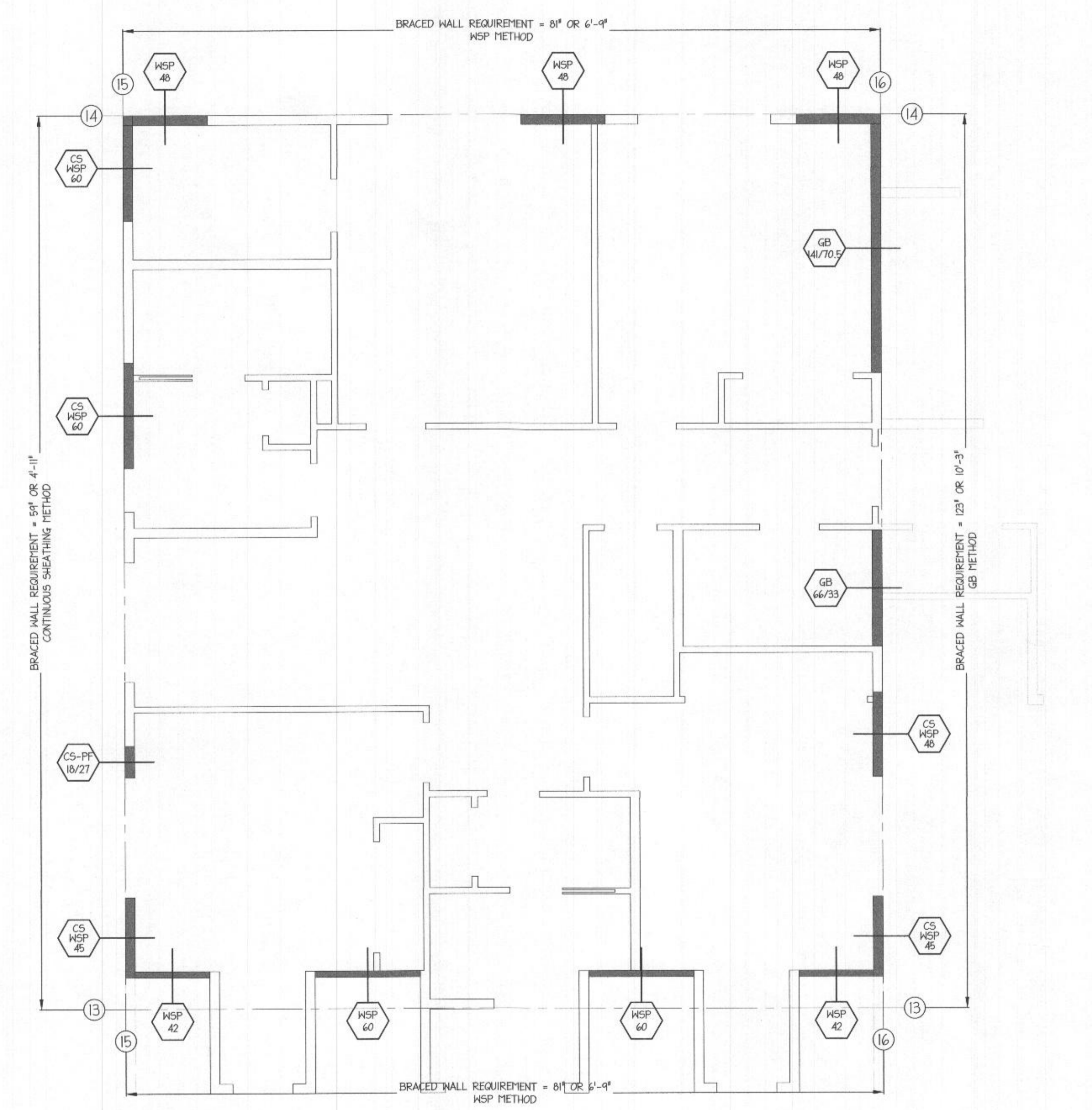
ISSUE DATE
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SCALE:
WALL BRACING

WB.2

PRINT DATE:
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SECOND FLOOR		BWL #17		BWL #18		BWL #19		BWL #20	
BRACED WALL LINE		Top Floor of a 2-Story		Top Floor of a 2-Story		Top Floor of a 2-Story		Top Floor of a 2-Story	
BRACED WALL PANEL METHOD		WSP Method		WSP Method		Continuous Sheathing		GB Method	
AVERAGE BWL SPACING (FT)		30 INCHES or 3 FT. 0 IN.		42 INCHES or 3 FT. 6 IN.		66 INCHES or 5 FT. 6 IN.		136 INCHES or 11 FT. 4 IN.	
TYPICAL REQUIRED (FT)		41.55555555		42.33333333		36		36	
EXPOSURE		B		B		B		B	
EDGE BRIDGE (E1)		3/8" x 3/8"		3/8" x 3/8"		3/8" x 3/8"		3/8" x 3/8"	
WALL HEIGHT (F1)		9		9		9		9	
# BRIS		1		2		1		1	
CRAT WITHIN GB		NO		NO		NO		NO	
ADD PAIR BOB HOLD DOWNS		NO		NO		NO		NO	
BUILDING GB FASTEN # @ 4'-0"		NO		NO		NO		NO	
REQUIRED BWL LENGTH (FT)		81 INCHES or 6 FT. 9 IN.		81 INCHES or 6 FT. 9 IN.		59 INCHES or 4 FT. 11 IN.		123 INCHES or 10 FT. 3 IN.	
ACTUAL BWL CONTRIBUTING LENGTH		81 INCHES or 6 FT. 9 IN.		81 INCHES or 6 FT. 9 IN.		59 INCHES or 4 FT. 11 IN.		123 INCHES or 10 FT. 3 IN.	
TOTAL CONTRIBUTING LENGTH		292 INCHES or 24 FT. 4 IN.		144 INCHES or 12 FT. 0 IN.		192 INCHES or 16 FT. 0 IN.		194 INCHES or 16 FT. 1.5 IN.	
ACTUAL # REQUIRED		YES		YES		YES		YES	
SPACE		YES		YES		YES		YES	
# OF		36		36		42.33333333		42.33333333	
BWP		WSP 2.50 x 1.50		WSP 2.50 x 1.50		CS-PF 1.50 x 1.50		CS-PF 1.50 x 1.50	
BWP WITHIN 20' OF END		YES		YES		YES		YES	
BWP WITHIN 20' OF END		YES		YES		YES		YES	
COMPLIANCE (PASS - FAIL)		PASS		PASS		PASS		PASS	



SECOND FLOOR BRACING PLAN
 1/4" PER FOOT

THE LIGHTER WALLS ARE EITHER UNDER THE FIRST FLOOR ROOF OR ARE DORMERS

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 - GB# DESIGNATES SHEATHING BOTH SIDES.)
CS-PF #	DENOTES BRACED WALL SEGMENT MIN. WIDTH, IN INCHES, PER IRC SECTION 602.10, 2" OSB OR PLYWOOD SHEATHING, w/7d COMMON EDGE NAILS @ 6"oc, 12"oc IN FIELD, OR 16ga, 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, 2" OSB OR PLYWOOD SHEATHING, w/7d COMMON EDGE NAILS @ 6"oc, 12"oc IN FIELD, OR 16ga, 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, 2" OSB OR PLYWOOD SHEATHING, NAILED & STRAPPED PER IRC CS-PF METHOD.
PFH #/W	DENOTES BRACED WALL SEGMENT MIN. WIDTH, IN INCHES, 2" OSB OR PLYWOOD SHEATHING, NAILED & STRAPPED, PER IRC PFH METHOD (FOR SCHEDULES 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.

