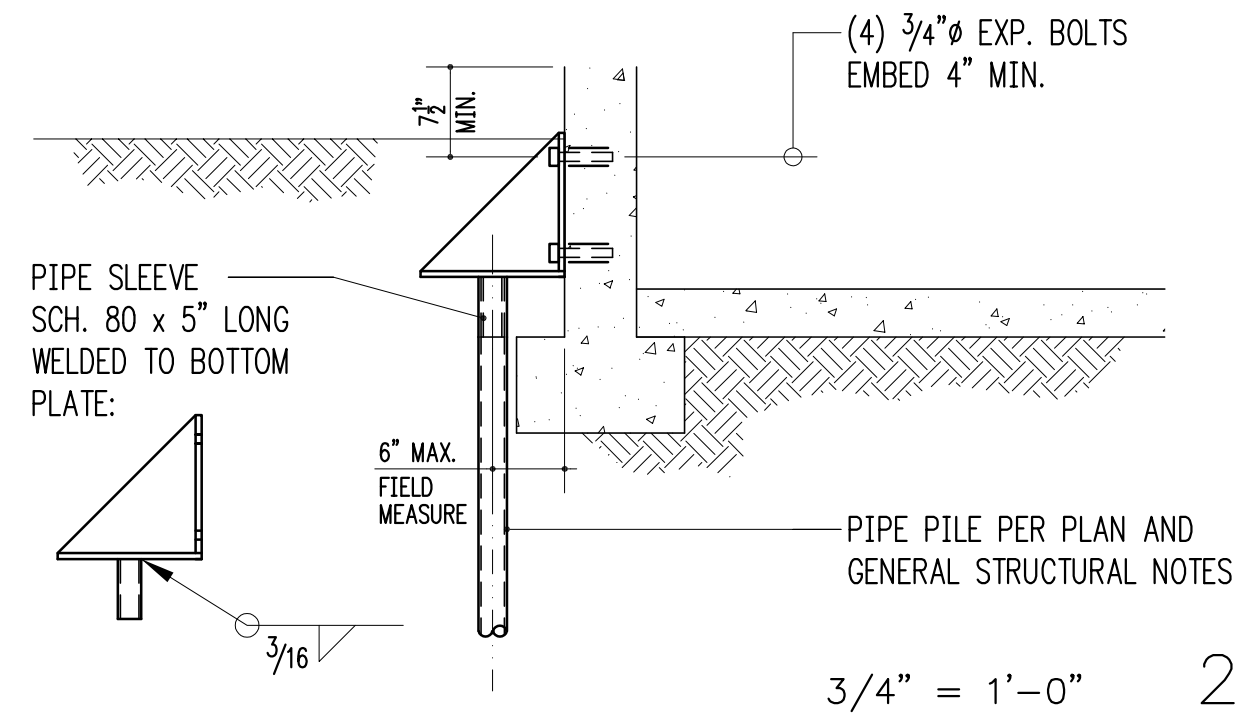
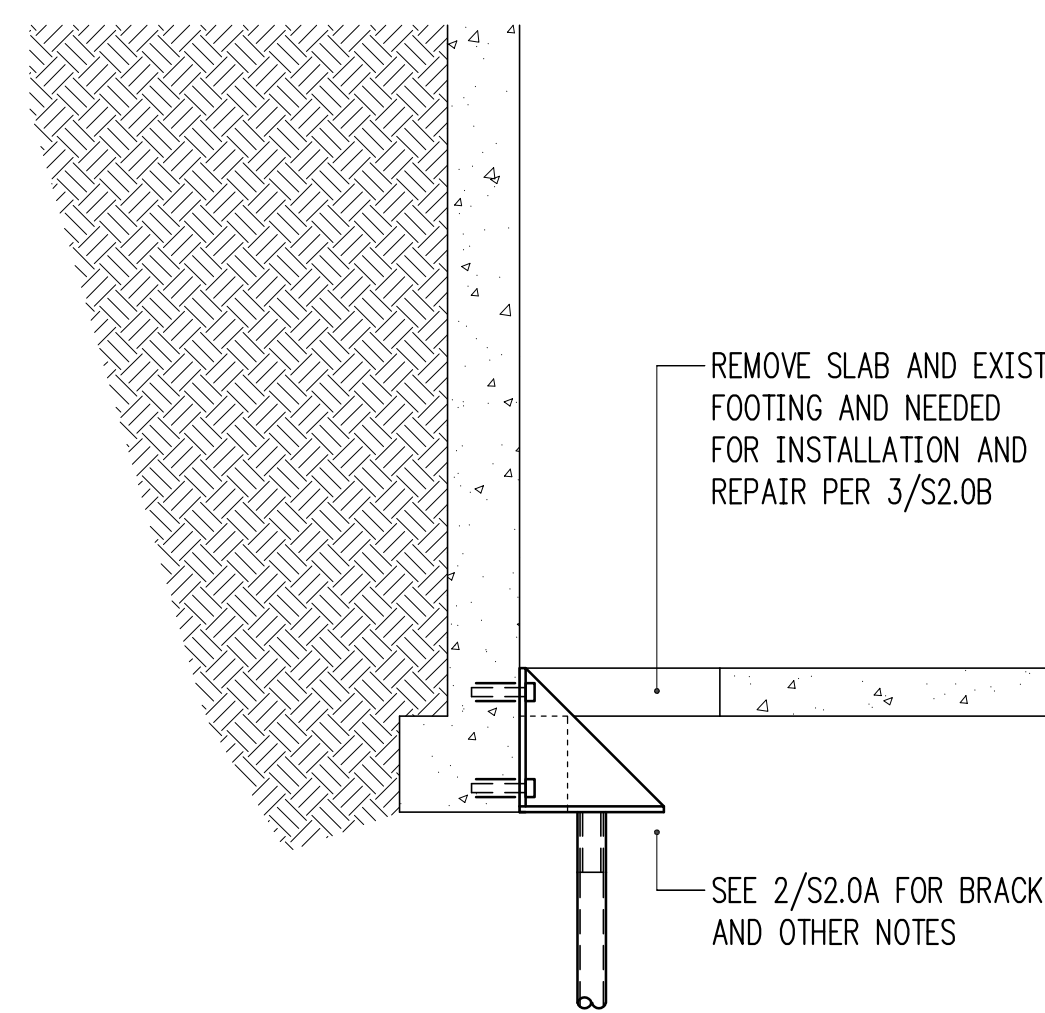


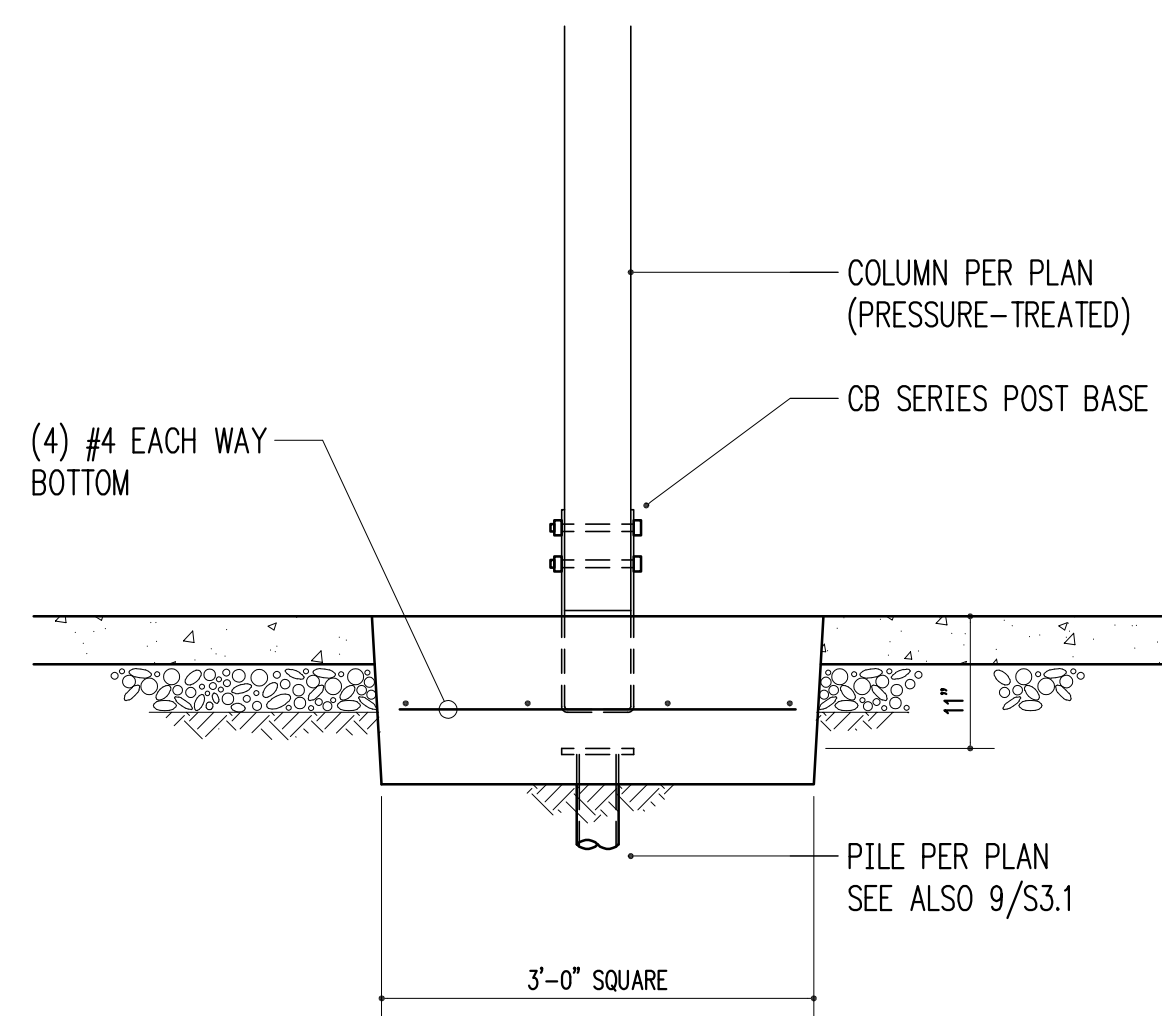
THIS BRACKET MAY BE SUBSTITUTED FOR AN INSTALLER'S ALTERNATIVE IF SUBMITTED TO AND APPROVED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO INSTALLATION



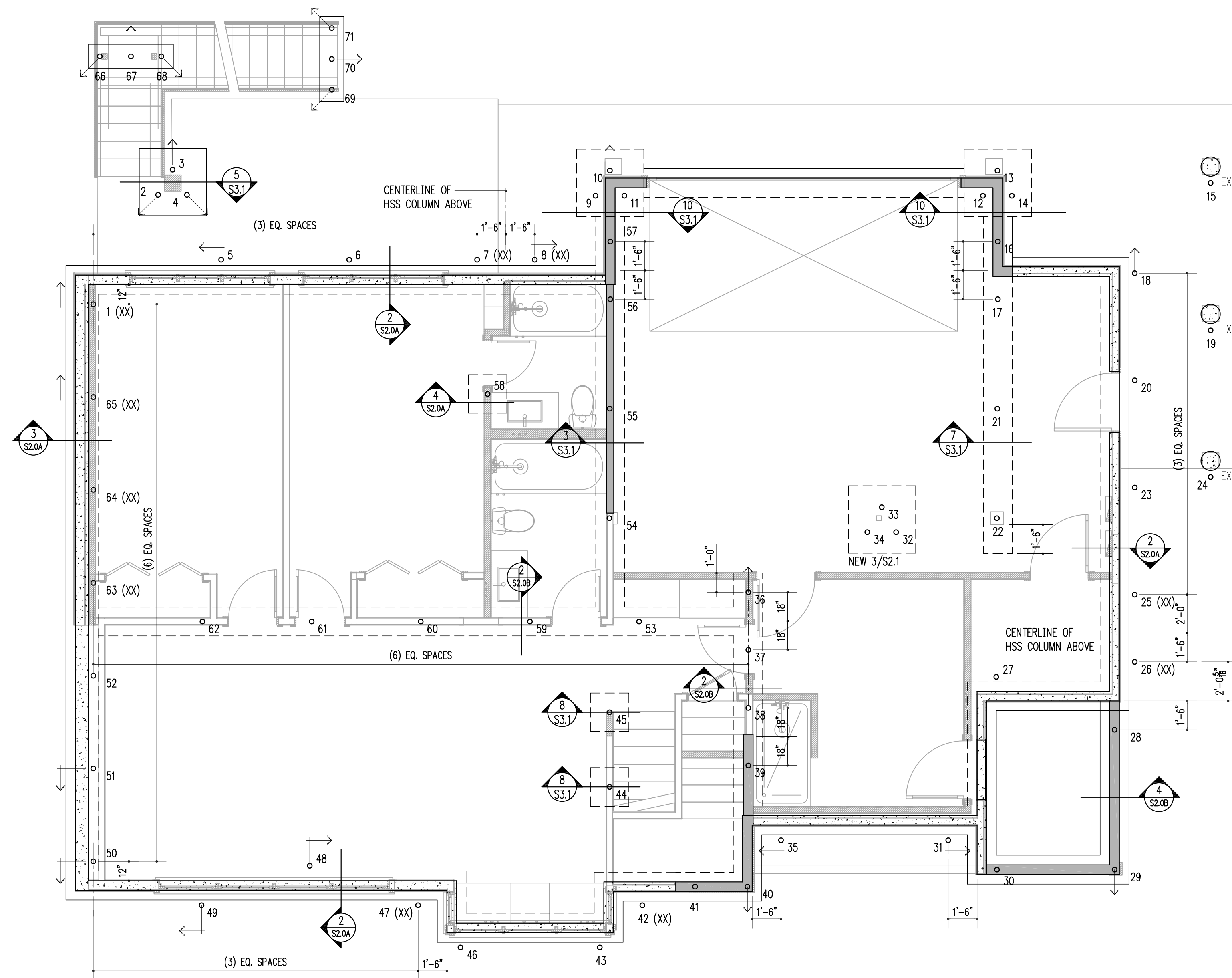
3/4" = 1'-0" 2



3/4" = 1'-0" 3



3/4" = 1'-0" 4



1 PILE PLAN
S2.0A scale: 1/4" = 1'-0"

LEGEND

- PILE BATTER DIRECTION SEE PLAN NOTE 2
- SECTION DETAIL
- COLUMN ABOVE
- 3" STEEL PIPE PILE
- NEW CONCRETE WALL
- EXISTING CONCRETE WALL

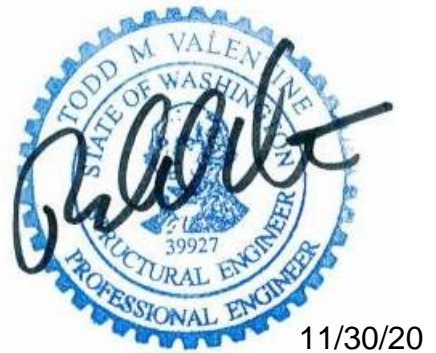
PILE PLAN NOTES

1. ALL PILES 3" PER GENERAL NOTES PILES MARKED AS (XX) SHALL BE DOUBLE-EXTRA STRONG PIPE
2. WHERE MARKED WITH BATTER PILE AT 15 DEGREES FROM VERTICAL IN THE DIRECTION INDICATED
3. GEOTECHNICAL ENGINEER OF RECORD MUST BE PRESENT FOR PILE DRIVING.
4. SEE GENERAL STRUCTURAL NOTES FOR HAMMER AND DRIVING REQUIREMENTS
5. UNLESS NOTED OTHERWISE, ALL PILES SHALL BE CENTERED UNDER THE STEM WALL DIRECTLY ABOVE
6. SEE X/SX.0 FOR PILE EMBEDMENT INTO FOOTING REQUIREMENTS

THIS SHEET ENTIRELY NEW

HV

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8/31/20	Foundation Revisions
10/8/20	Framing Revisions
10/14/20	Pin Pile Revision
11/13/20	Revisions
11/30/20	Revisions

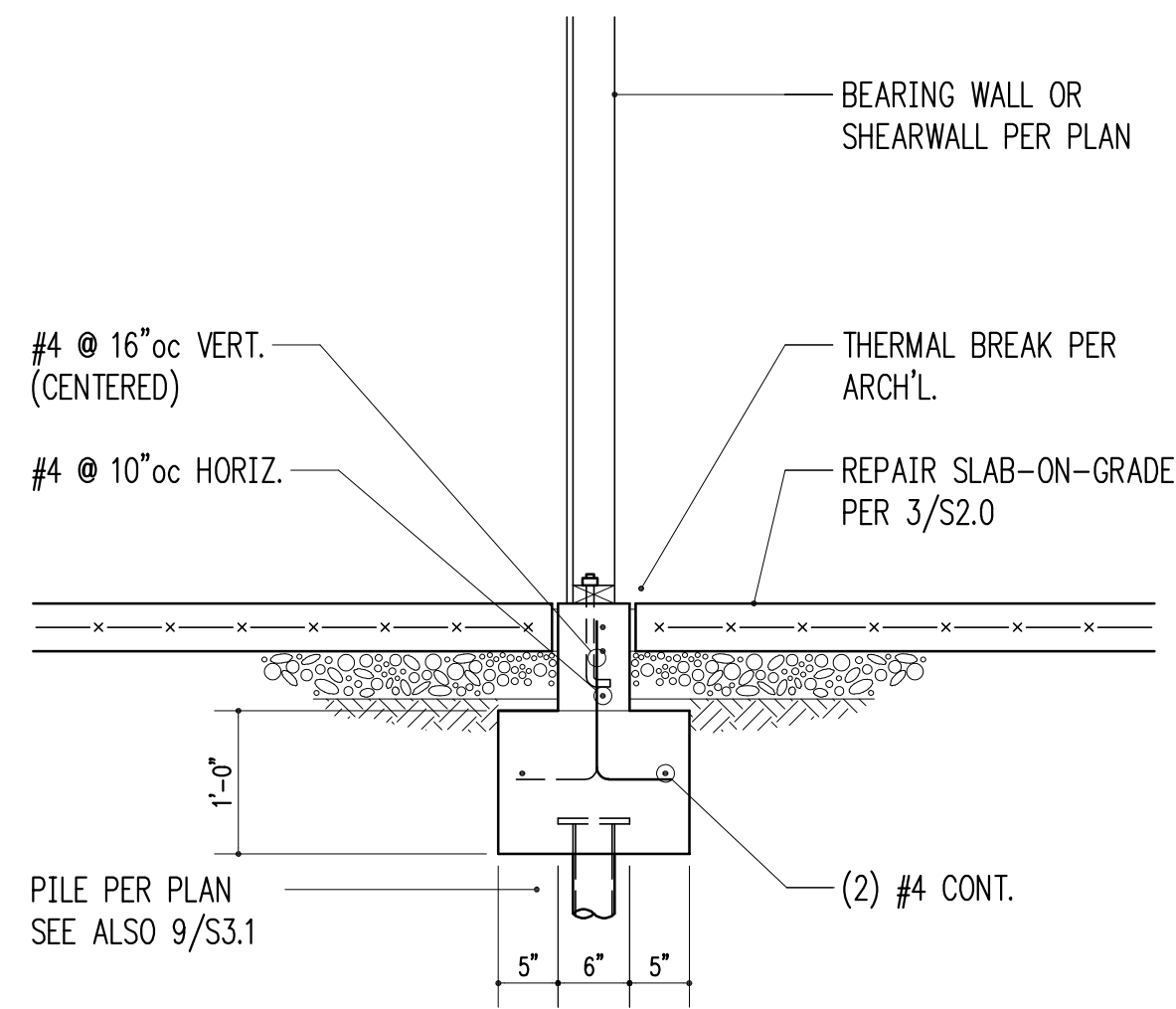
Building Department Approval

Drawing Title
PILE PLAN

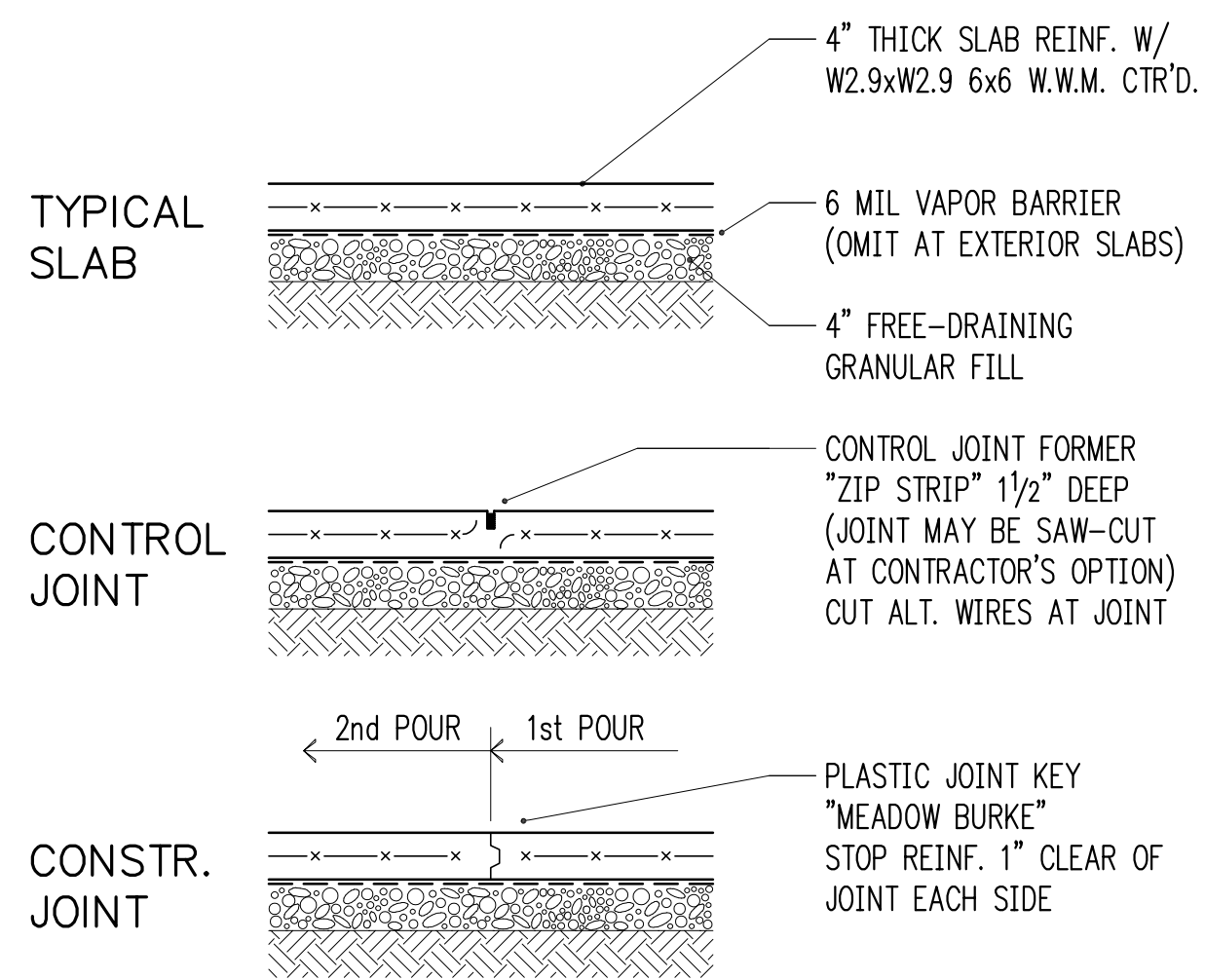
Drawing Number

S2.0A

WERELIUS RESIDENCE

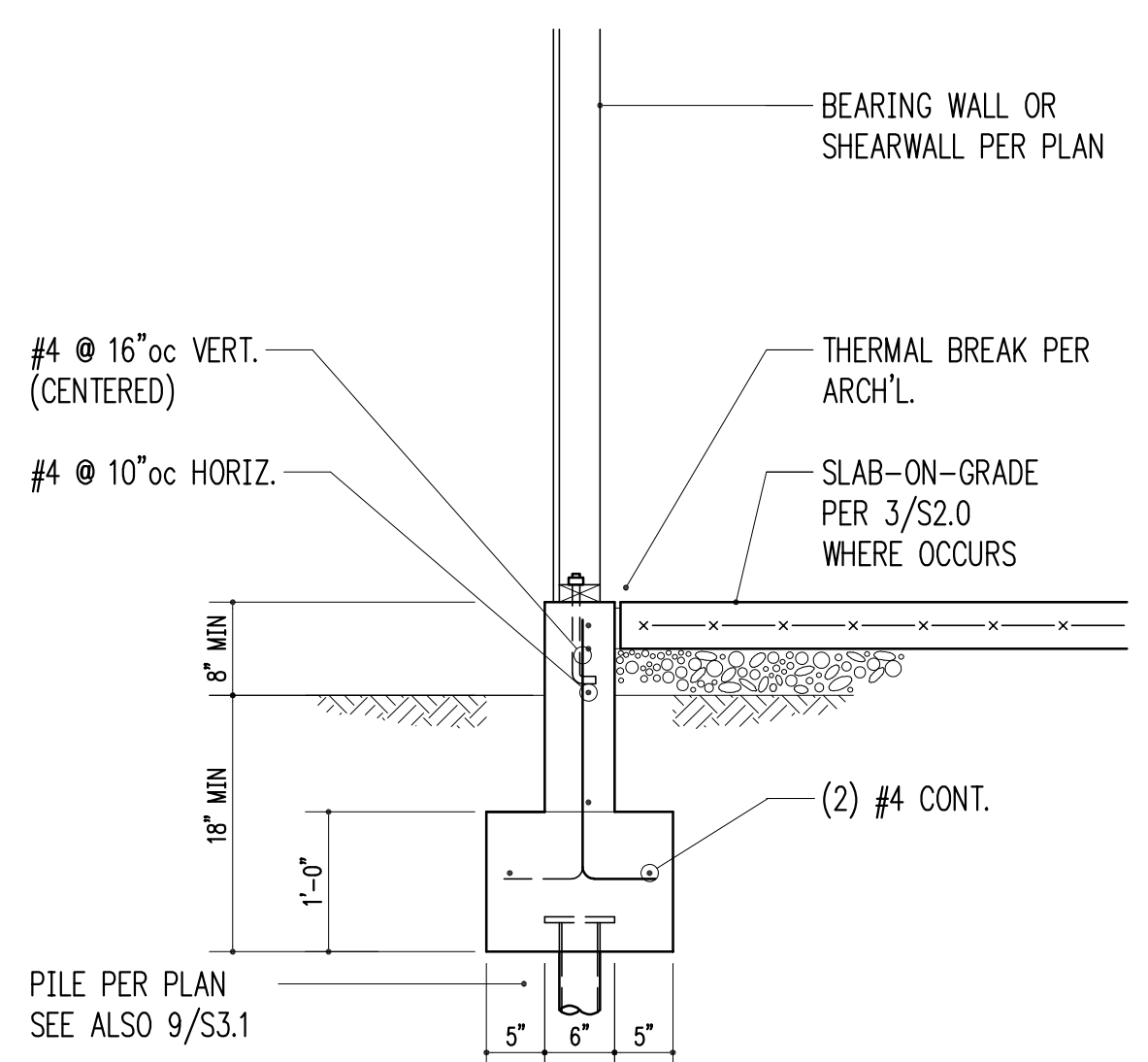


3/4" = 1'-0" 2

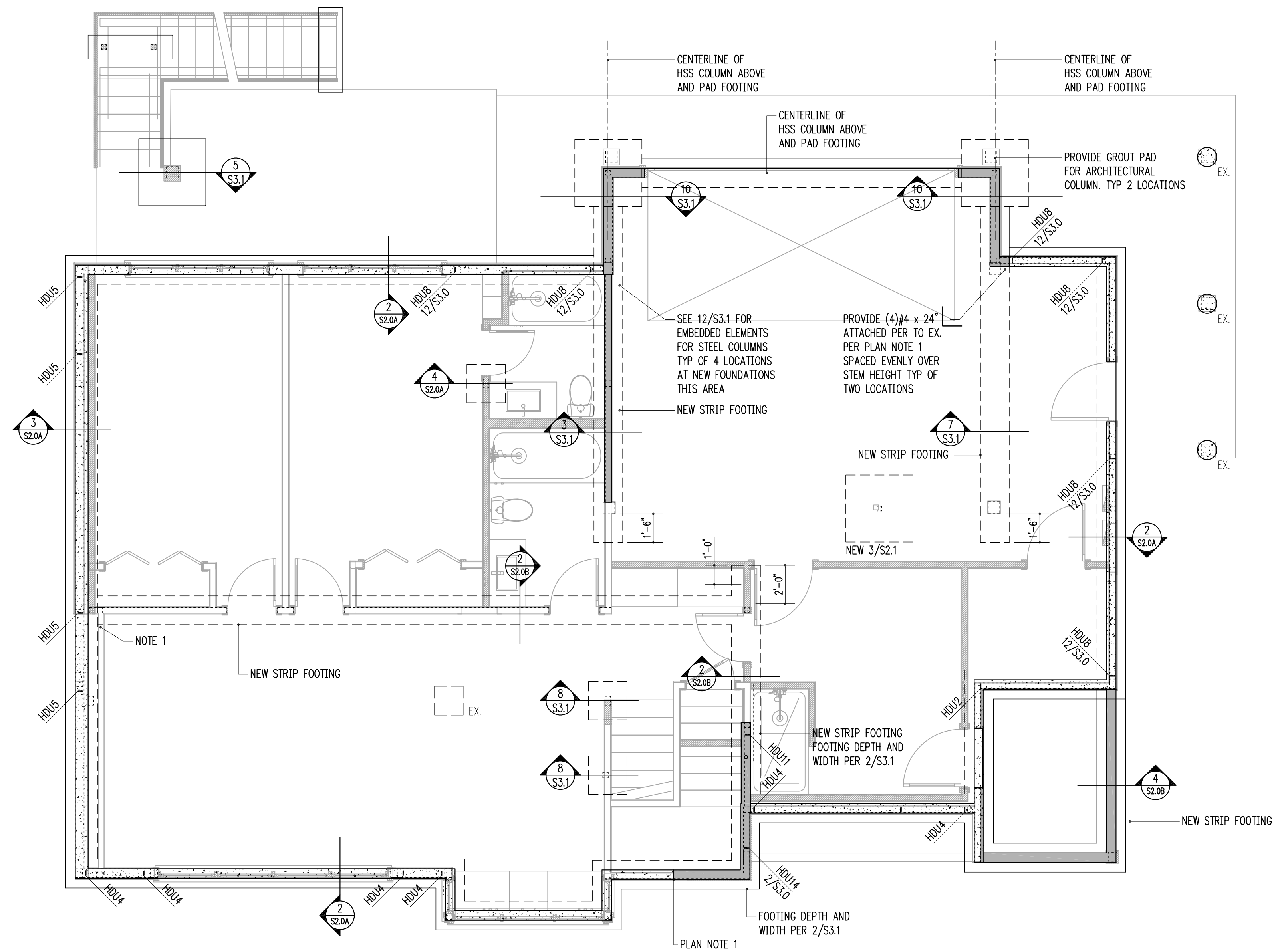


SLAB-ON-GRADE (NOT INSULATED)

3/4" = 1'-0" 3



3/4" = 1'-0" 4



1 FOUNDATION PLAN
scale: 1/4" = 1'-0"

HANGER SCHEDULE

MEMBER (FLAT ONLY)	HANGER	FACE NAILING	CAPACITY (Cd = 1.0)
2x10 or 2x12	LUS210	10d COMMON	1275 lb
(2)2x10	HUS210-2	0.162x3/2	2110 lb
4x10	HUC410	0.162x3/2	2680 lb
11 7/8" TJI 560	IUS3.56/11.88	10d COMMON	1405 lb
(2) 1 3/4"x9/4 LVL	HUC410	0.162x3/2	2680 lb

NOTE! EXISTING FRAMING MEMBERS AS INDICATED ON THIS PLAN ARE ASSUMED FOR DESIGN PURPOSES ONLY. HARRIOTT VALENTINE ENGINEERS SHALL NOT BE HELD LIABLE FOR LOCATION/SIZE OF EXISTING MEMBERS AS CALLED ON THIS PLAN. EXISTING MEMBERS SHALL BE VERIFIED AND REPORTED TO STRUCTURAL ENGINEER OF RECORD PRIOR TO CONSTRUCTION.

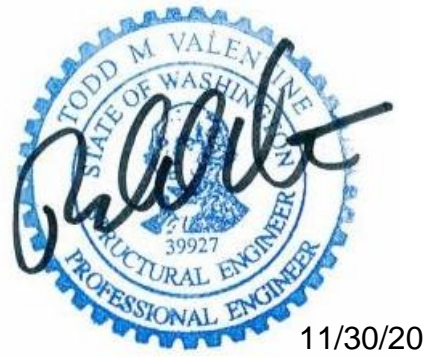
LEGEND

- SPAN
- EXTENT
- SECTION DETAIL
- (FB) FLUSH BEAM
- (PT) PRESSURE-TREATED
- COLUMN ABOVE
- COLUMN BELOW
- NEW STRUCTURAL WALL
- EXISTING STRUCTURAL WALL
- NEW CONCRETE WALL
- EXISTING CONCRETE WALL
- HDA ALL-THREAD HOLDOWN AT END OF SHEARWALL ABOVE
- CSX STRAP HOLDOWN AT END OF SHEARWALL ABOVE

FOUNDATION PLAN NOTES

- WHERE NEW CONCRETE WALLS OR FOOTING ABUT EX. CONCRETE, PROVIDE DOWELS #4 x 2'-0" TO MATCH HORIZ. REINFORCING, EMBED 5" IN EPOXY GROUT.
- SEE 10/S4.0 FOR TYPICAL HOLDOWN REQUIREMENTS AT CONCRETE WALLS AND FOOTINGS.
- SLAB-ON-GRADE SHALL BE PLACED AND CURED FOR A MINIMUM OF SEVEN DAYS BEFORE RETAINING WALLS ARE BACKFILLED. SEE RETAINING WALL DETAILS FOR SPECIFIC CONFIGURATION.
- SEE 11/S3.0 FOR CORNER REINFORCING AT NEW CONCRETE STEMS AND FOOTINGS

THIS SHEET ENTIRELY REVISED



11/30/20

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8/31/20	Foundation Revisions
10/8/20	Framing Revisions
10/14/20	Pin Pile Revision
11/13/20	Revisions
11/30/20	Revisions

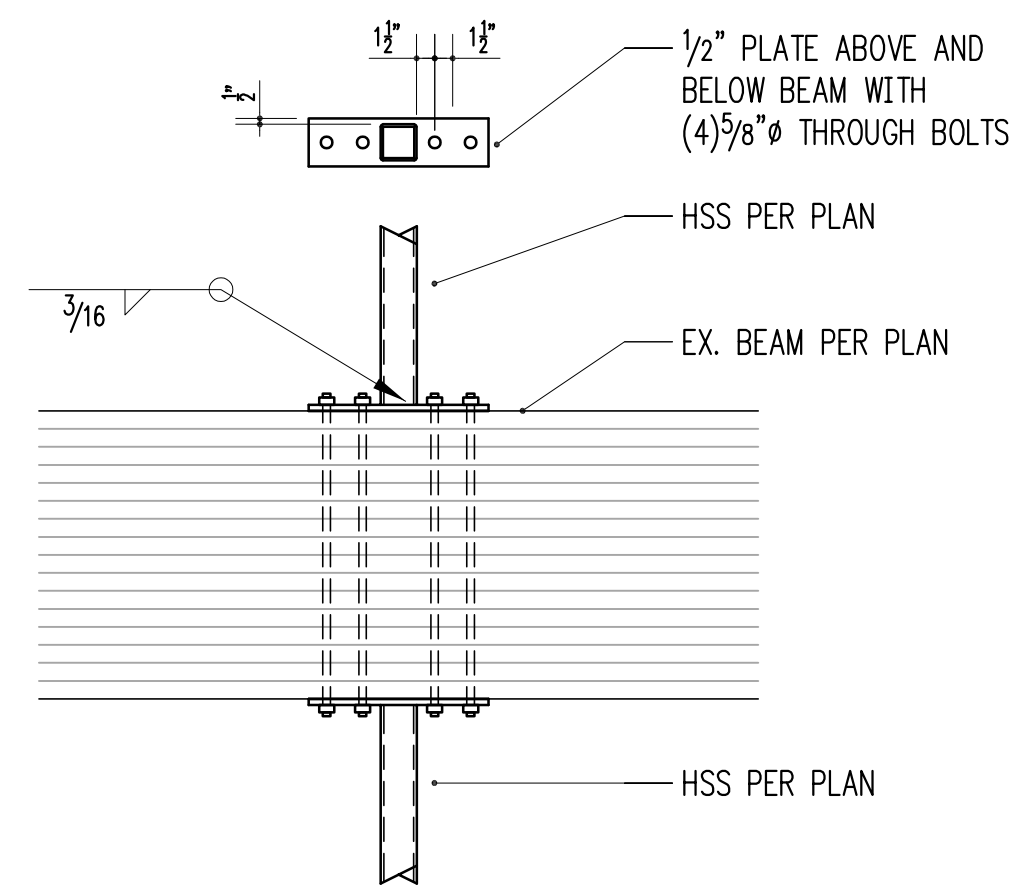
Building Department Approval

Drawing Title
FOUNDATION PLAN

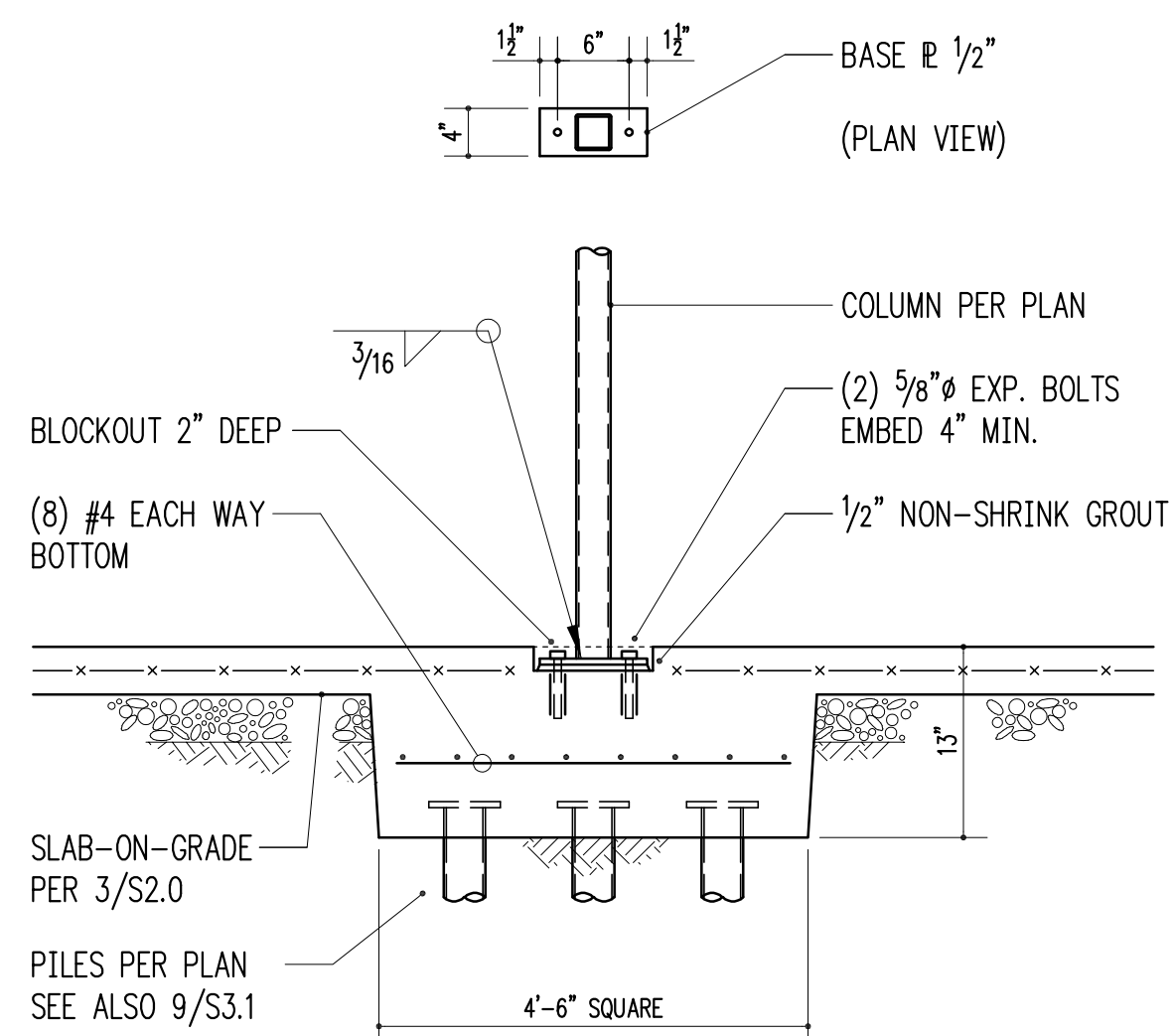
Drawing Number

S2.0B

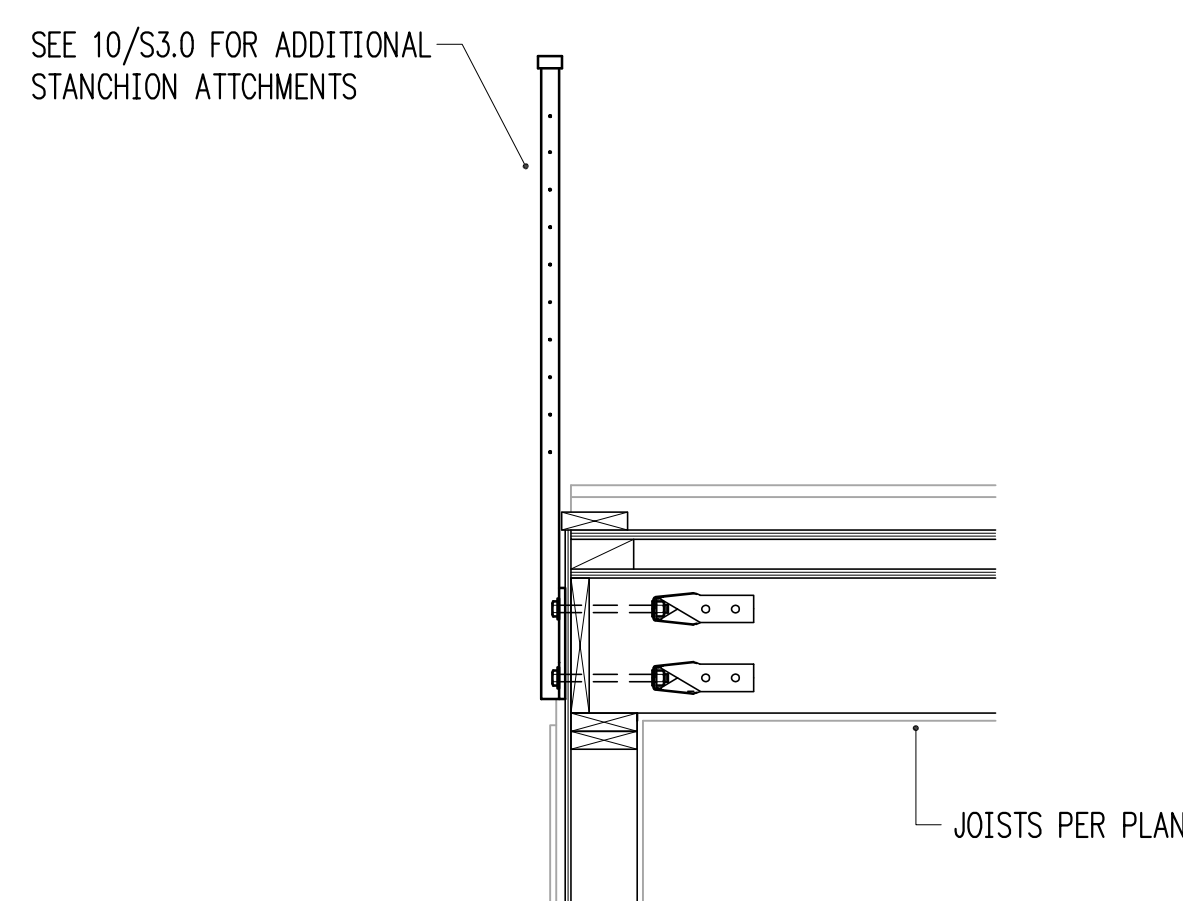
WERELIUS RESIDENCE



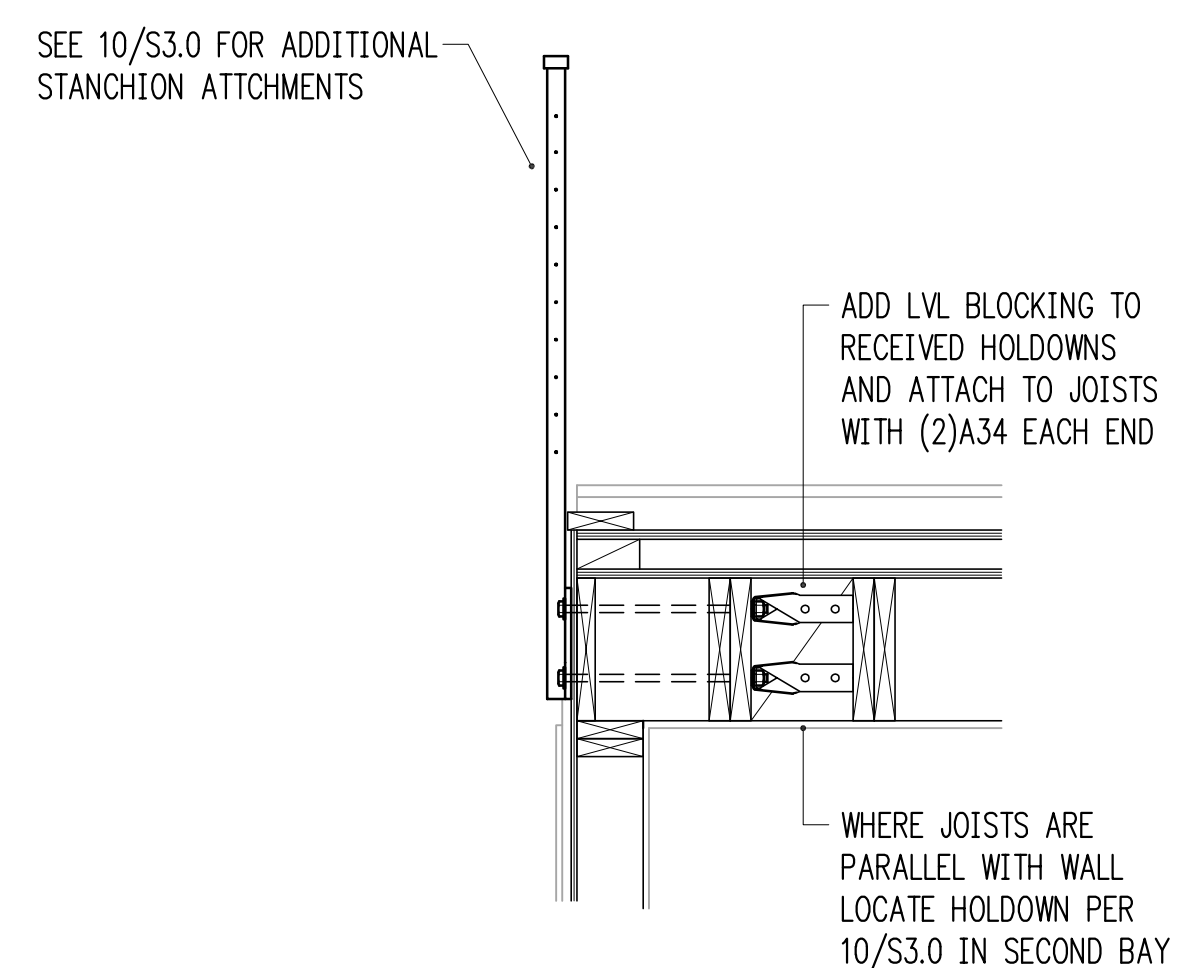
3/4" = 1'-0" 2



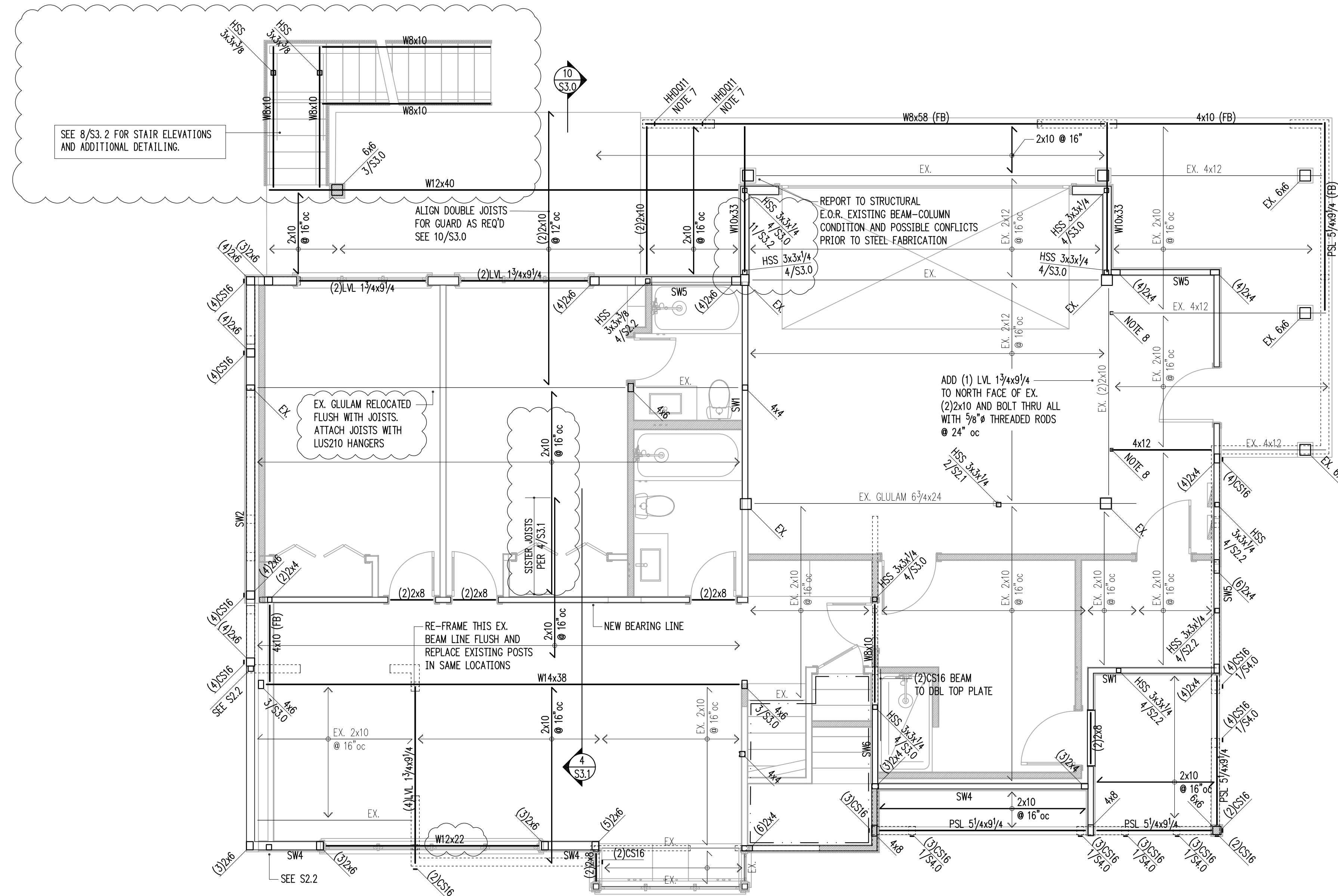
3/4" = 1'-0" 3



1-1/2" = 1'-0" 4



1-1/2" = 1'-0" 5



1 S2.1 MAIN FLOOR FRAMING PLAN (BASEMENT WALLS) scale: 1/4" = 1'-0"

HANGER SCHEDULE

MEMBER (FLAT ONLY)	HANGER	FACE NAILING	CAPACITY (Cd = 1.0)
2x10 or 2x12	LUS210	10d COMMON	1275 lb
(2)2x10	HUS210-2	0.162x3/2	2110 lb
4x10	HUC410	0.162x3/2	2680 lb
11 7/8" TJI 560	IUS3.56/11.88	10d COMMON	1405 lb
(2) 1 3/4x9 1/4 LVL	HUC410	0.162x3/2	2680 lb

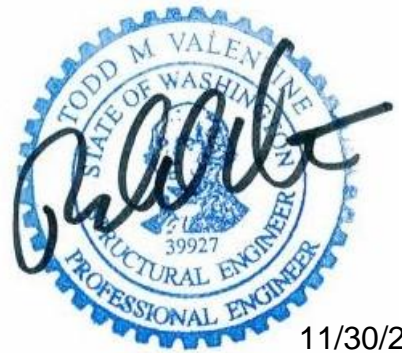
NOTE!! EXISTING FRAMING MEMBERS AS INDICATED ON THIS PLAN ARE ASSUMED FOR DESIGN PURPOSES ONLY. HARRIOTT VALENTINE ENGINEERS SHALL NOT BE HELD LIABLE FOR LOCATION/ SIZE OF EXISTING MEMBERS AS CALLED ON THIS PLAN. EXISTING MEMBERS SHALL BE VERIFIED AND REPORTED TO STRUCTURAL ENGINEER OF RECORD PRIOR TO CONSTRUCTION.

LEGEND

- SPAN
- EXTENT
- SECTION DETAIL
- (FB) FLUSH BEAM
- (PT) PRESSURE-TREATED
- ∴ COLUMN ABOVE
- COLUMN BELOW
- NEW STRUCTURAL WALL
- EXISTING STRUCTURAL WALL
- NEW CONCRETE WALL
- EXISTING CONCRETE WALL
- ALL-THREAD HOLDDOWN AT END OF SHEARWALL ABOVE
- STRAP HOLDDOWN AT END OF SHEARWALL ABOVE

FRAMING PLAN NOTES

1. SW_ INDICATES SHEARWALL TYPE PER SCHEDULE 9/S4.0. REFER TO DETAILS FOR TYPICAL SHEARWALL CONSTRUCTION. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL WALL INFORMATION.
2. REFER TO GENERAL STRUCTURAL NOTES FOR FLOOR OR ROOF SHEATHING TYPE, THICKNESS, AND NAILING.
3. COLUMNS SHALL BE DOUBLE STUD MINIMUM, UNLESS NOTED OTHERWISE. SEE 11/S4.0.
4. AT ALL SHEARWALLS PROVIDE DOUBLE TOP PLATES AND SPLICE PER 12/S4.0.
5. CS_ INDICATES COILED STRAP TYPE PER SCHEDULE 6/S4.0. REFER TO DETAILS FOR TYPICAL STRAP ASSEMBLY.
6. POSTS □, INCLUDING ENDS OF WALL OPENINGS, SHALL BE (2)2x6 UNLESS NOTED OTHERWISE.
7. WELD THREADED RODS FOR HOLD DOWNS AND BOTTOM PLATE ATTACHMENT TO STEEL BEAMS BELOW.
8. WHERE NOTED ON PLAN ATTACH 4x12 TO BEAM ABOVE WITH SIMPSON THA426 TRUSS HANGER



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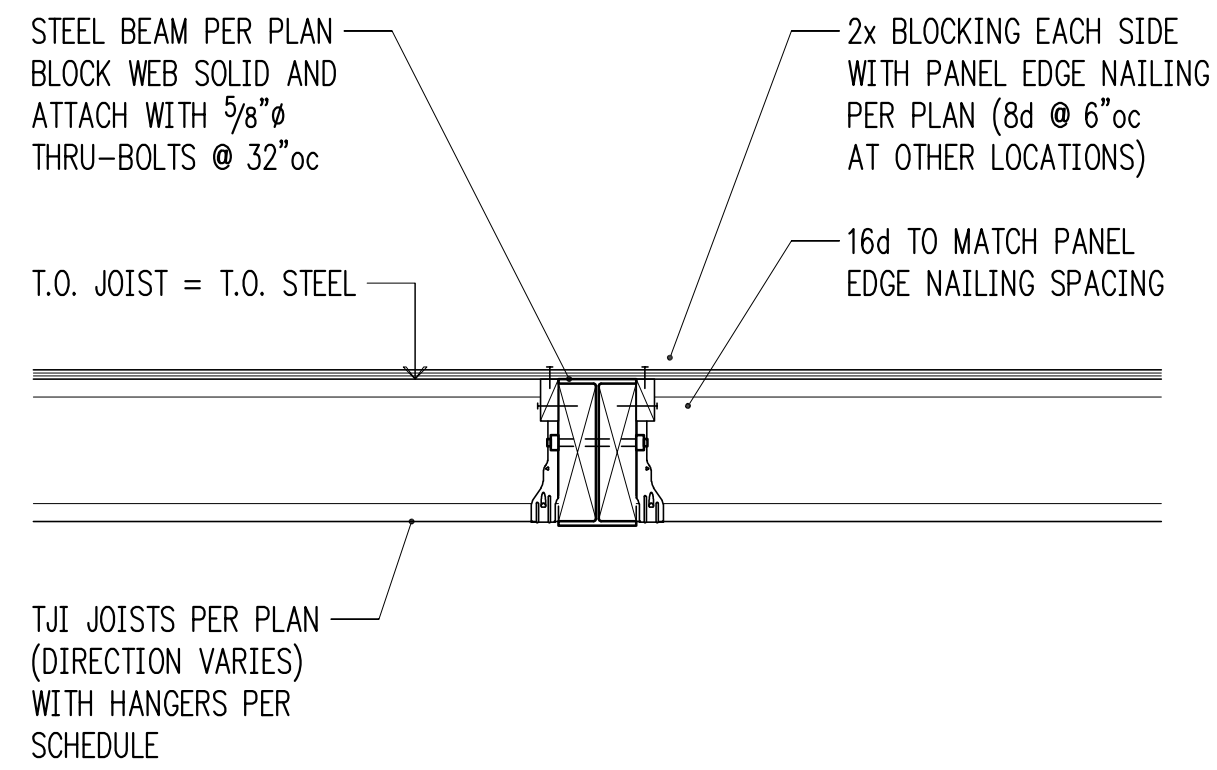
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 Mercer Island, WA 98040

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10/14/20	Pin Pile Revision
11/13/20	Revisions
11/30/20	Revisions

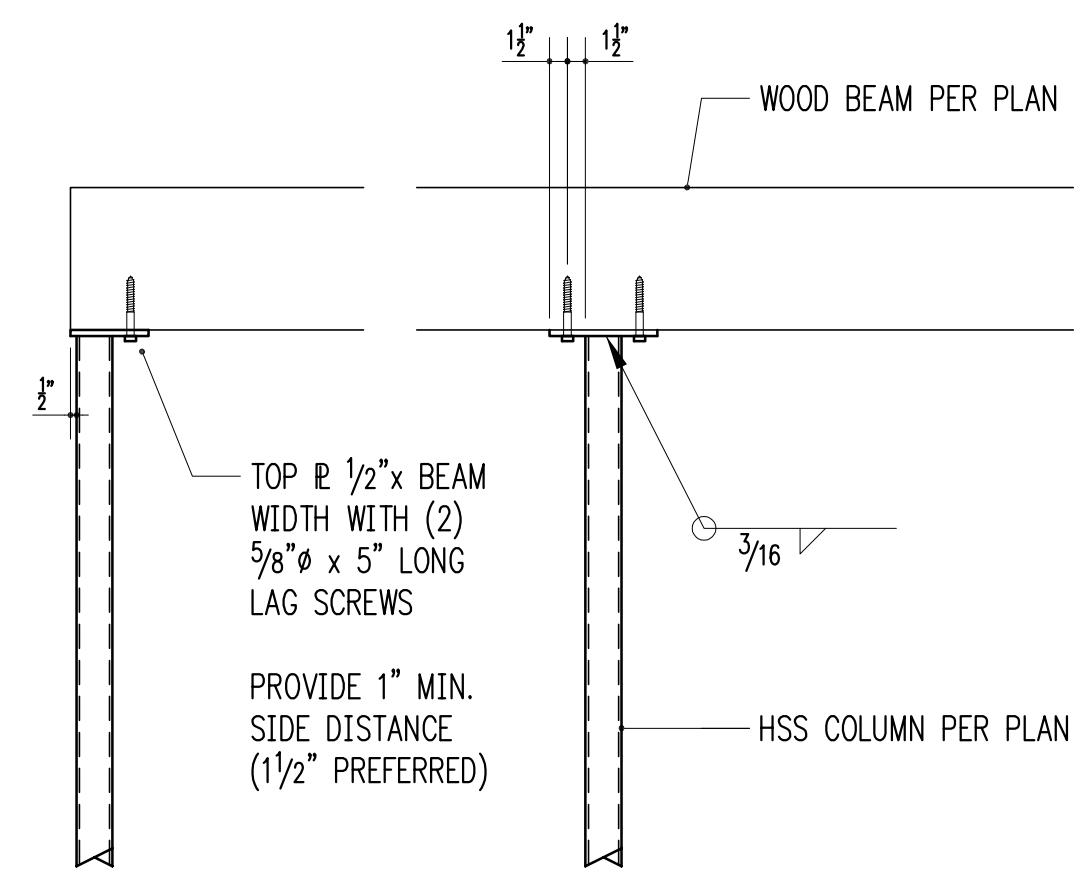
Building Department Approval

Drawing Title
MAIN FLOOR FRAMING PLAN

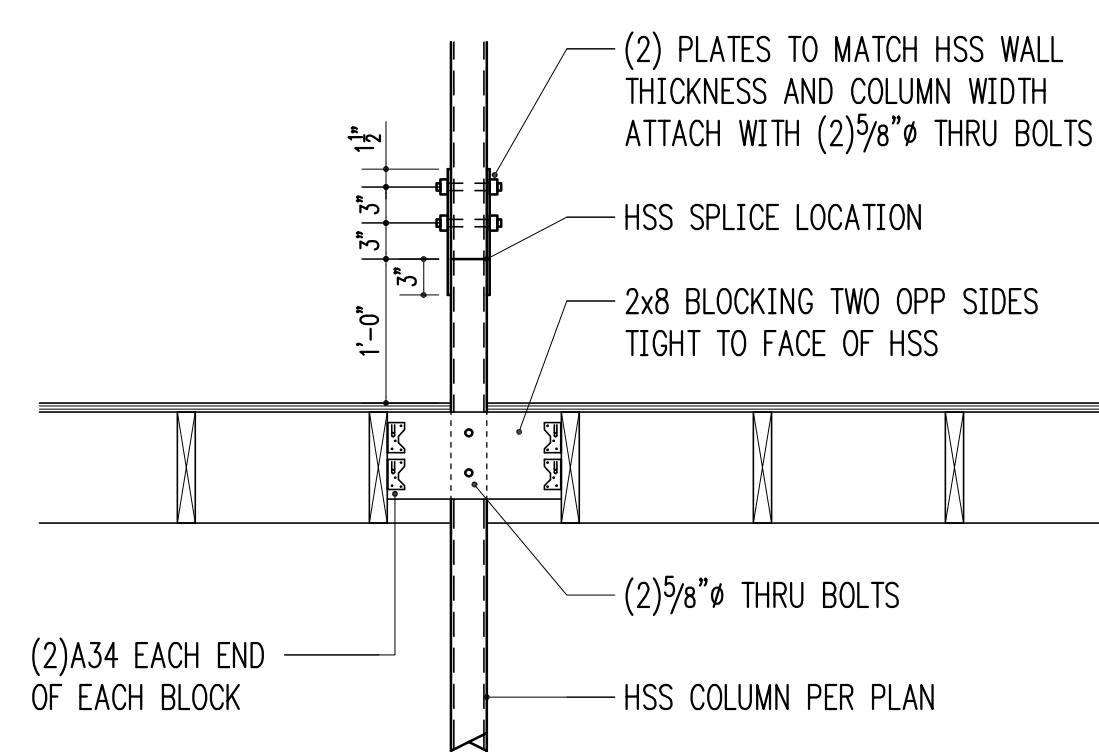
Drawing Number
S2.1



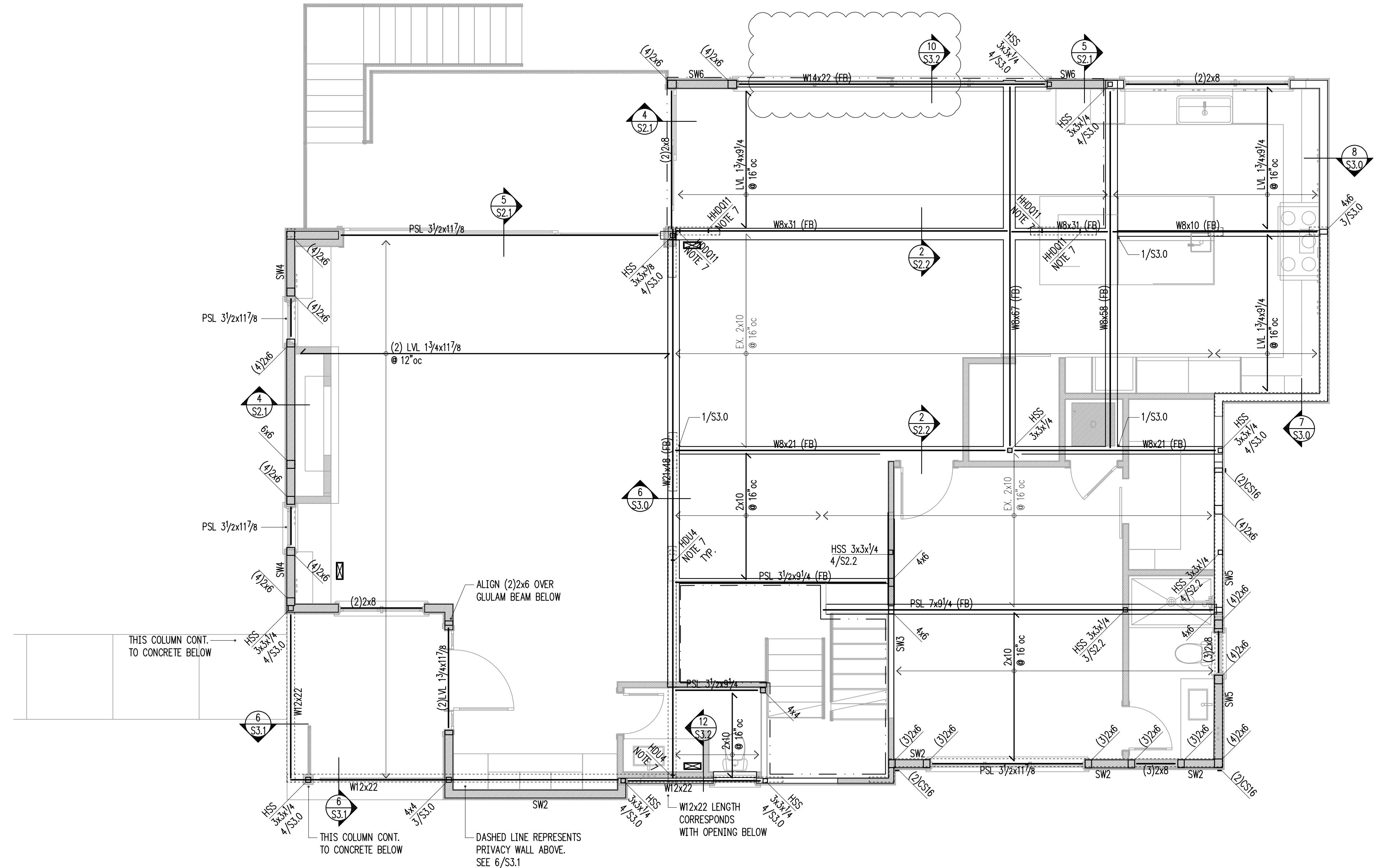
3/4" = 1'-0" 2



WOOD BEAM BEARING ON HSS COLUMN
3/4" = 1'-0" 3



HSS COLUMN SPLICE
3/4" = 1'-0" 4



1 SECOND FLOOR FRAMING PLAN (MAIN FLOOR WALLS)
scale: 1/4" = 1'-0"

HANGER SCHEDULE

MEMBER (FLAT ONLY)	HANGER	FACE NAILING	CAPACITY (Cd = 1.0)
2x10 or 2x12	LUS210	10d COMMON	1275 lb
(2)2x10	HUS210-2	0.162x3/2	2110 lb
4x10	HUC410	0.162x3/2	2680 lb
11 7/8" TJI 560	IUS3.56/11.88	10d COMMON	1405 lb
(2) 1 3/4x9/4 LVL	HUC410	0.162x3/2	2680 lb

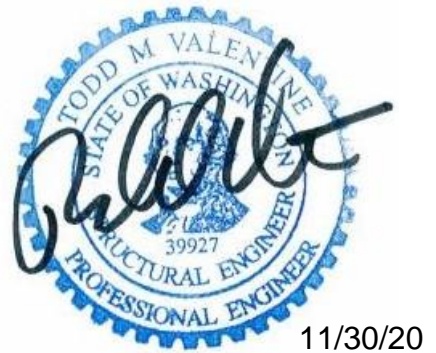
NOTE! EXISTING FRAMING MEMBERS AS INDICATED ON THIS PLAN ARE ASSUMED FOR DESIGN PURPOSES ONLY. HARRIOTT VALENTINE ENGINEERS SHALL NOT BE HELD LIABLE FOR LOCATION/ SIZE OF EXISTING MEMBERS AS CALLED ON THIS PLAN. EXISTING MEMBERS SHALL BE VERIFIED AND REPORTED TO STRUCTURAL ENGINEER OF RECORD PRIOR TO CONSTRUCTION.

LEGEND

- SPAN
- EXTENT
- SECTION DETAIL
- (FB) FLUSH BEAM
- (PT) PRESSURE-TREATED
- COLUMN ABOVE
- COLUMN BELOW
- NEW STRUCTURAL WALL
- EXISTING STRUCTURAL WALL
- NEW CONCRETE WALL
- EXISTING CONCRETE WALL
- ALL-THREAD HOLDOWN AT END OF SHEARWALL ABOVE
- STRAP HOLDOWN AT END OF SHEARWALL ABOVE

FRAMING PLAN NOTES

1. SW___ INDICATES SHEARWALL TYPE PER SCHEDULE 8/S4.0. REFER TO DETAILS FOR TYPICAL SHEARWALL CONSTRUCTION. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL WALL INFORMATION.
2. REFER TO GENERAL STRUCTURAL NOTES FOR FLOOR OR ROOF SHEATHING TYPE, THICKNESS, AND NAILING.
3. COLUMNS SHALL BE DOUBLE STUD MINIMUM, UNLESS NOTED OTHERWISE. SEE 11/S4.0.
4. AT ALL SHEARWALLS PROVIDE DOUBLE TOP PLATES AND SPLICE PER 12/S4.0.
5. CS___ INDICATES COILED STRAP TYPE PER SCHEDULE 6/S4.0. REFER TO DETAILS FOR TYPICAL STRAP ASSEMBLY.
6. POSTS □, INCLUDING ENDS OF WALL OPENINGS, SHALL BE (2)2x6 UNLESS NOTED OTHERWISE.
7. WELD THREADED RODS FOR HOLD DOWNS AND BOTTOM PLATE ATTACHMENT TO STEEL BEAMS BELOW



11/30/20

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8/31/20	Foundation Revisions
10/8/20	Framing Revisions
10/14/20	Pin Pile Revision
11/13/20	Revisions
11/30/20	Revisions

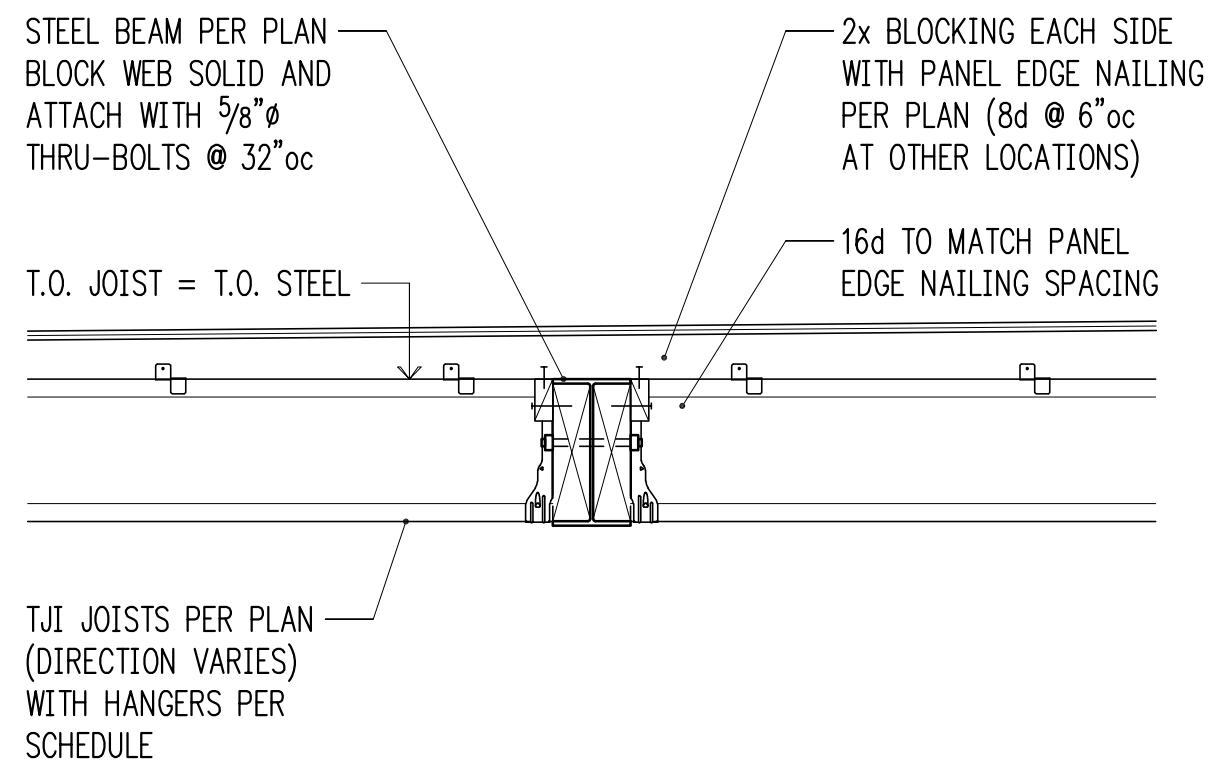
Building Department Approval

Drawing Title
SECOND FLOOR FRAMING PLAN

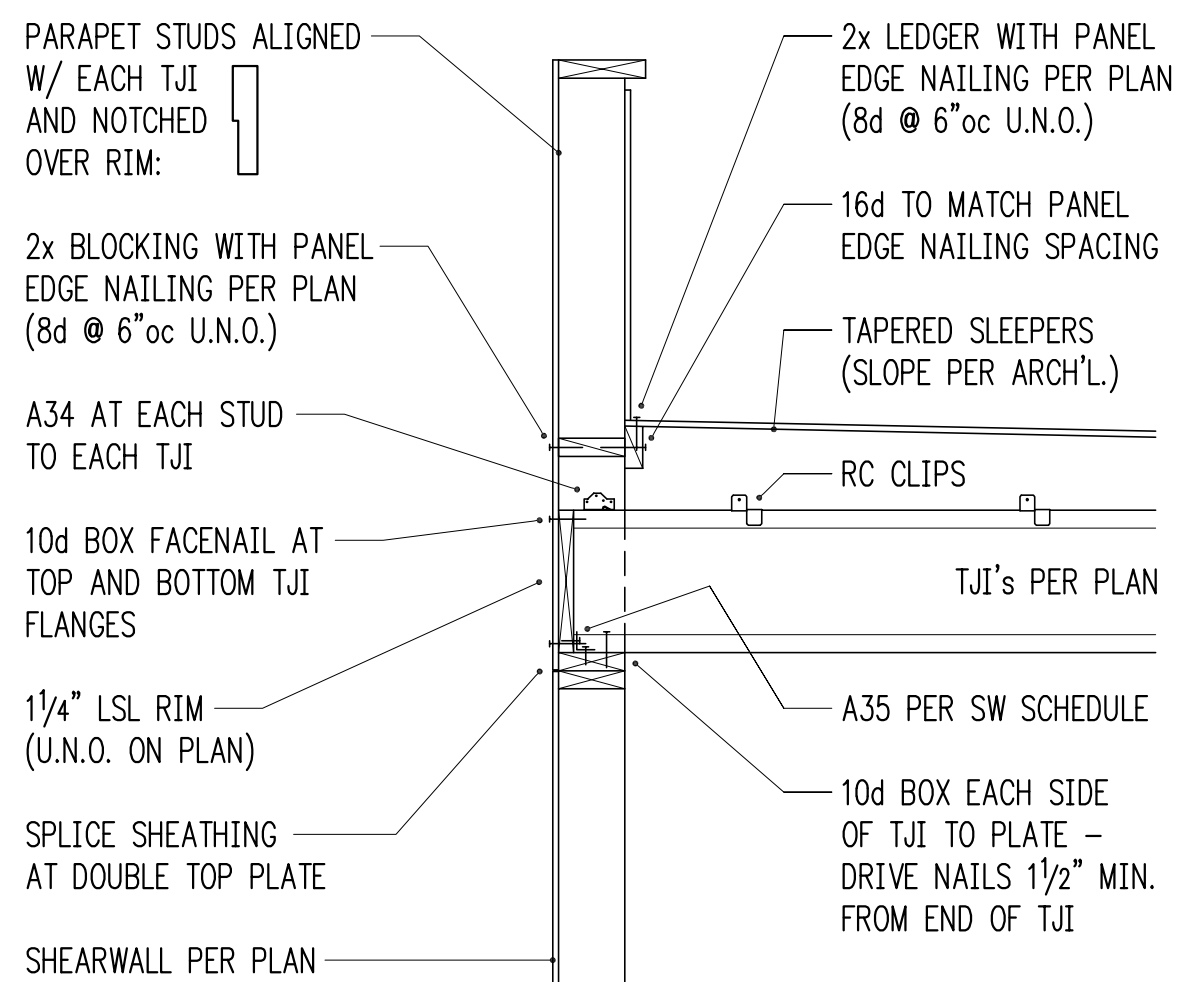
Drawing Number

S2.2

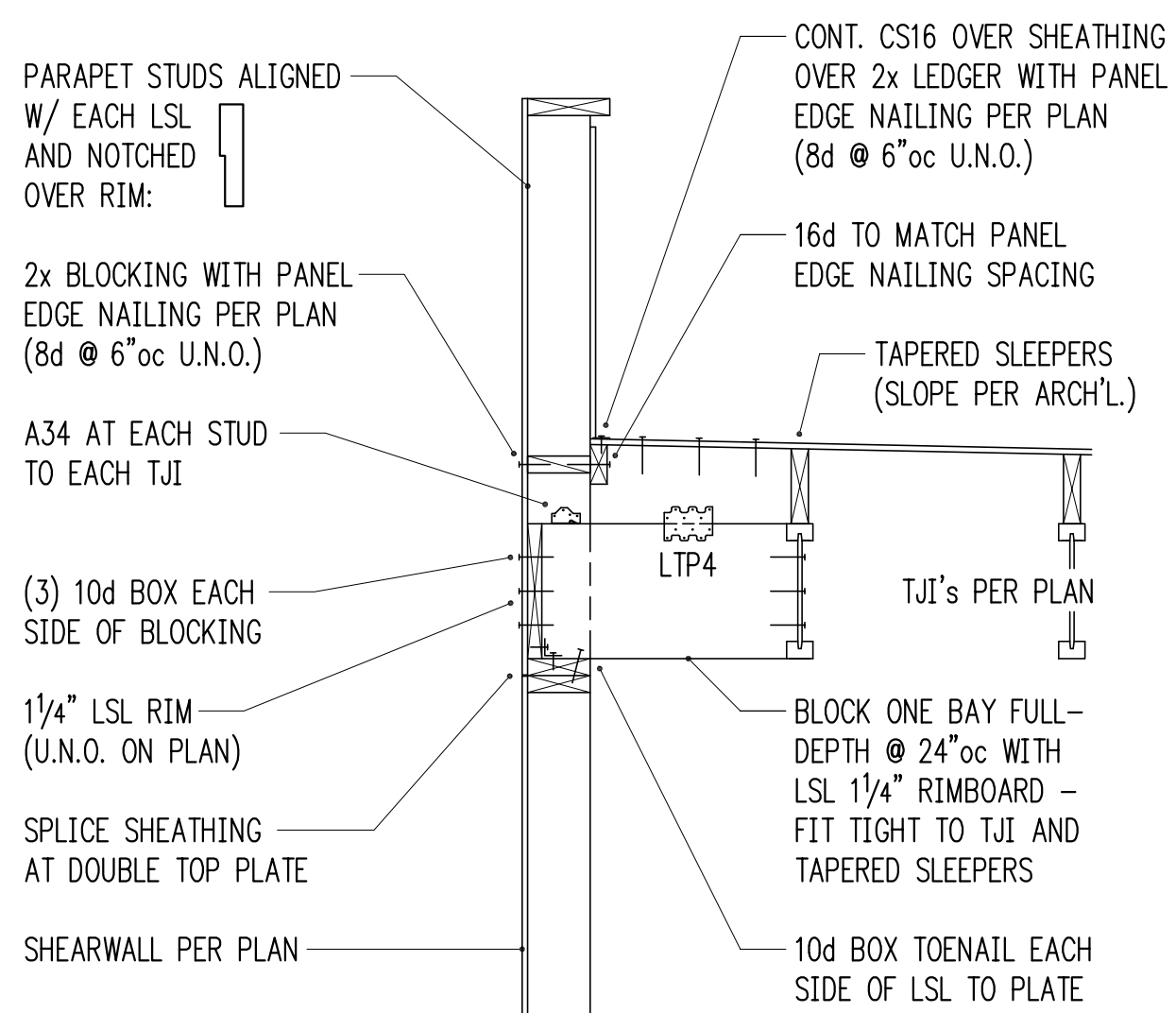
WERELIUS RESIDENCE



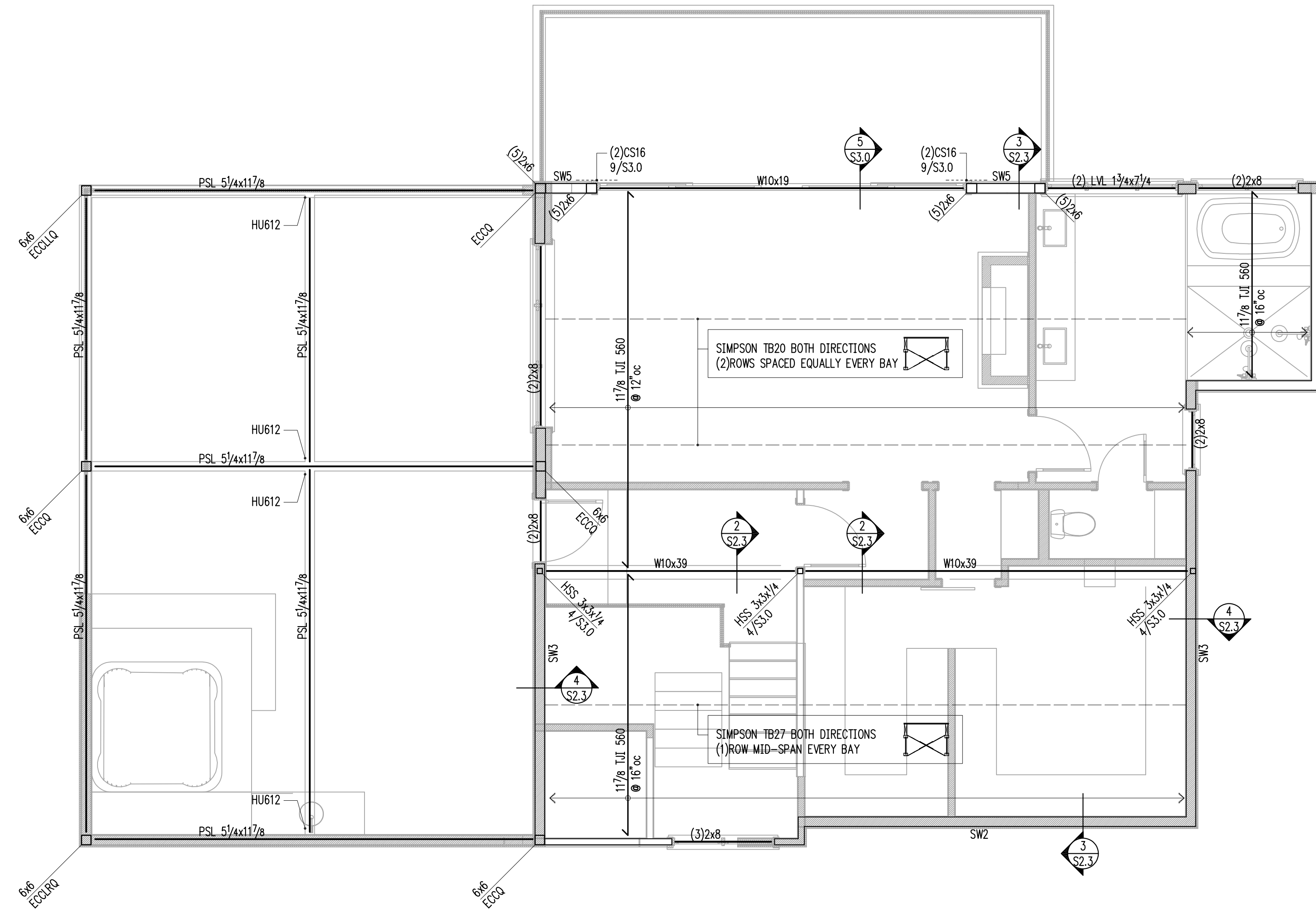
3/4" = 1'-0" 2



3/4" = 1'-0" 3



3/4" = 1'-0" 4



1 ROOF FRAMING PLAN (SECOND FLOOR WALLS)
scale: 1/4" = 1'-0"

HANGER SCHEDULE

MEMBER (FLAT ONLY)	HANGER	FACE NAILING	CAPACITY (Cd = 1.0)
2x10 or 2x12	LUS210	10d COMMON	1275 lb
(2)2x10	HUS210-2	0.162x3/2	2110 lb
4x10	HUC410	0.162x3/2	2680 lb
117/8" TJI 560	IUS3.56/11.88	10d COMMON	1405 lb
(2) 13/4x9/4 LVL	HUC410	0.162x3/2	2680 lb

NOTE! EXISTING FRAMING MEMBERS AS INDICATED ON THIS PLAN ARE ASSUMED FOR DESIGN PURPOSES ONLY. HARRIOTT VALENTINE ENGINEERS SHALL NOT BE HELD LIABLE FOR LOCATION/ SIZE OF EXISTING MEMBERS AS CALLED ON THIS PLAN. EXISTING MEMBERS SHALL BE VERIFIED AND REPORTED TO STRUCTURAL ENGINEER OF RECORD PRIOR TO CONSTRUCTION.

LEGEND

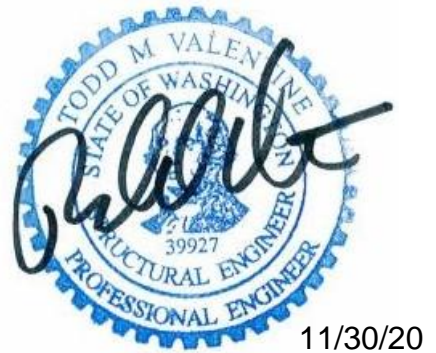
- SPAN
- EXTENT
- SECTION DETAIL
- (FB) FLUSH BEAM
- (PT) PRESSURE-TREATED
- ⋮ COLUMN ABOVE
- COLUMN BELOW
- ▬ NEW STRUCTURAL WALL
- ▬ EXISTING STRUCTURAL WALL
- ▬ NEW CONCRETE WALL
- ▬ EXISTING CONCRETE WALL
- ALL-THREAD HOLDOWN AT END OF SHEARWALL ABOVE
- STRAP HOLDOWN AT END OF SHEARWALL ABOVE

FRAMING PLAN NOTES

1. SW ___ INDICATES SHEARWALL TYPE PER SCHEDULE 8/S4.0. REFER TO DETAILS FOR TYPICAL SHEARWALL CONSTRUCTION. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL WALL INFORMATION.
2. REFER TO GENERAL STRUCTURAL NOTES FOR FLOOR OR ROOF SHEATHING TYPE, THICKNESS, AND NAILING.
3. COLUMNS SHALL BE DOUBLE STUD MINIMUM, UNLESS NOTED OTHERWISE. SEE 11/S4.0.
4. AT ALL SHEARWALLS PROVIDE DOUBLE TOP PLATES AND SPLICE PER 12/S4.0.
5. CS ___ INDICATES COILED STRAP TYPE PER SCHEDULE 6/S4.0. REFER TO DETAILS FOR TYPICAL STRAP ASSEMBLY.
6. POSTS □, INCLUDING ENDS OF WALL OPENINGS, SHALL BE (2)2x6 UNLESS NOTED OTHERWISE.

HV

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8/31/20	Foundation Revisions
10/8/20	Framing Revisions
10/14/20	Pin Pile Revision
11/13/20	Revisions
11/30/20	Revisions

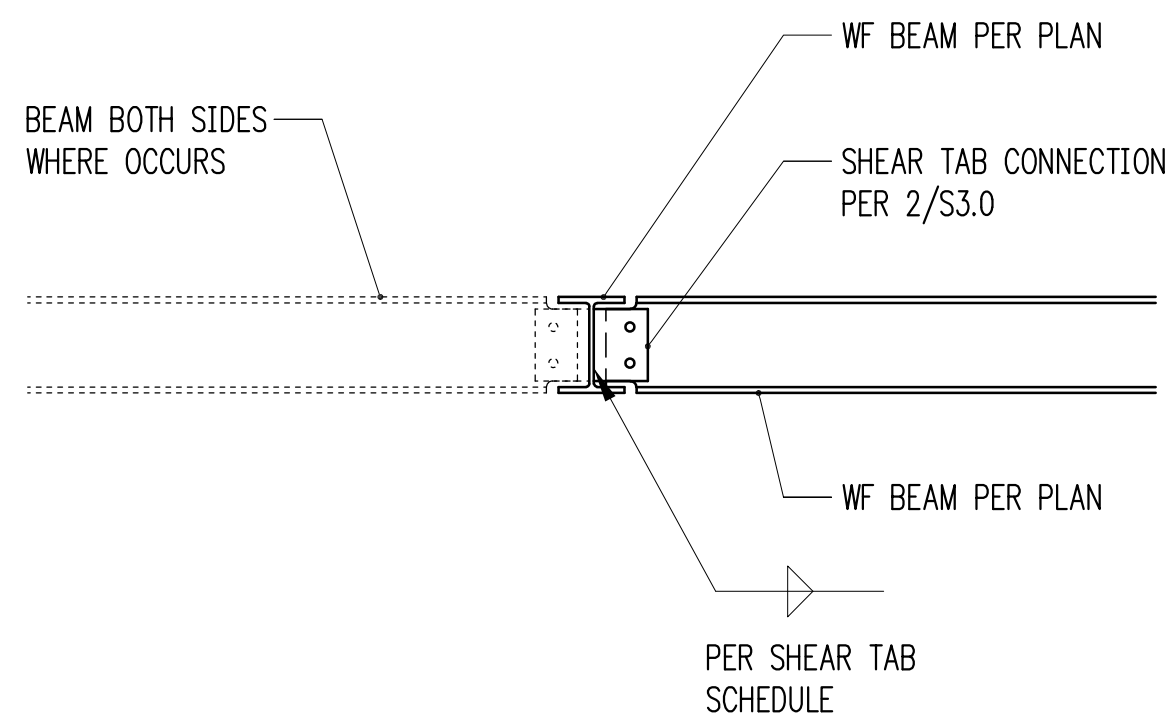
Building Department Approval

Drawing Title
ROOF FRAMING PLAN

Drawing Number

S2.3

WERELIUS RESIDENCE

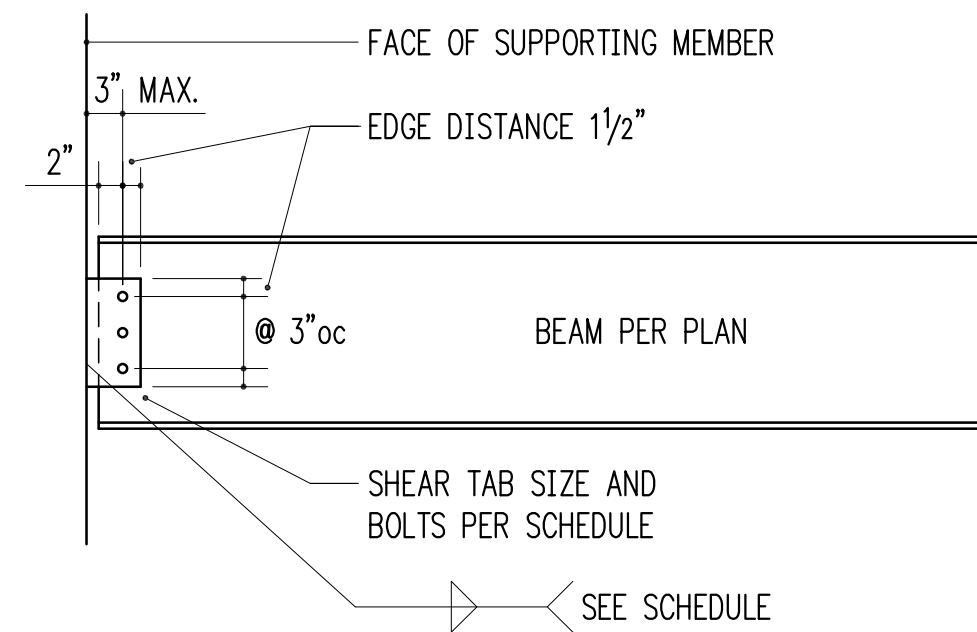


WF BEAM TO SIDE OF WF BEAM
3/4" = 1'-0" 1

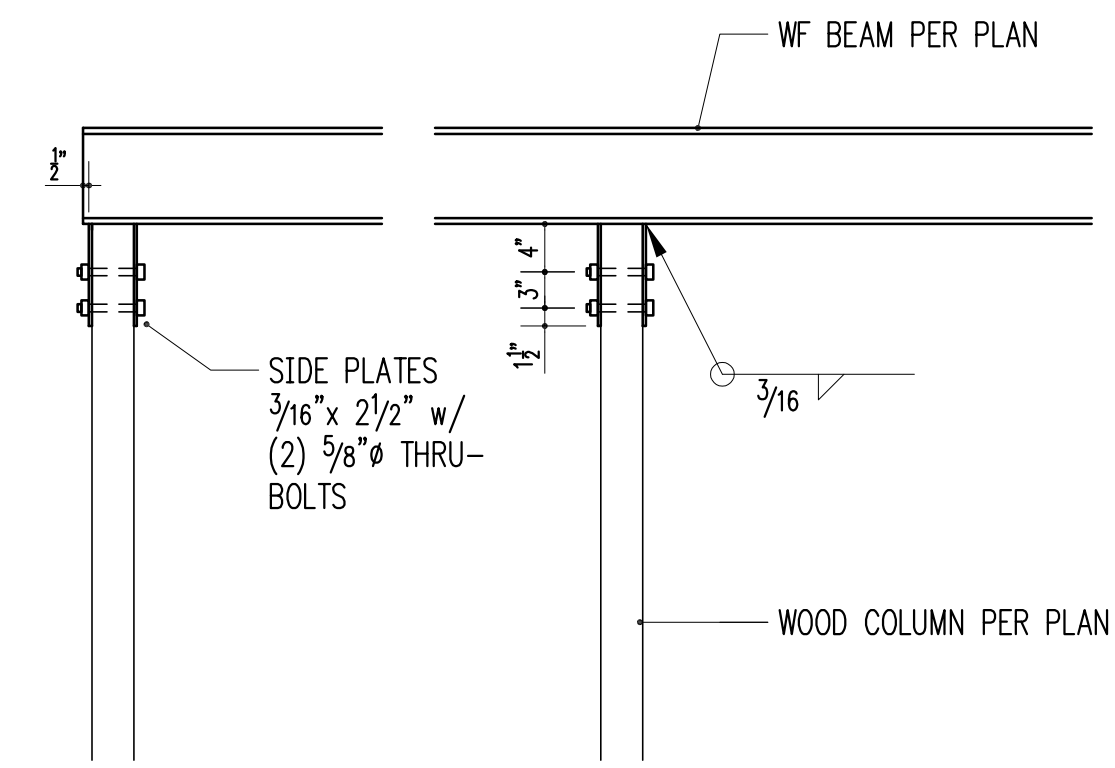
SHEAR TAB SCHEDULE

BEAM SIZE	# BOLTS	BOLT SIZE	R THICK.	WELD SIZE	CAPACITY
W8, W10	(2)	3/4"Ø	1/4"	3/16"	8,200 lb
W14 OR DEEPER	(3)	3/4"Ø	1/4"	3/16"	16,300 lb

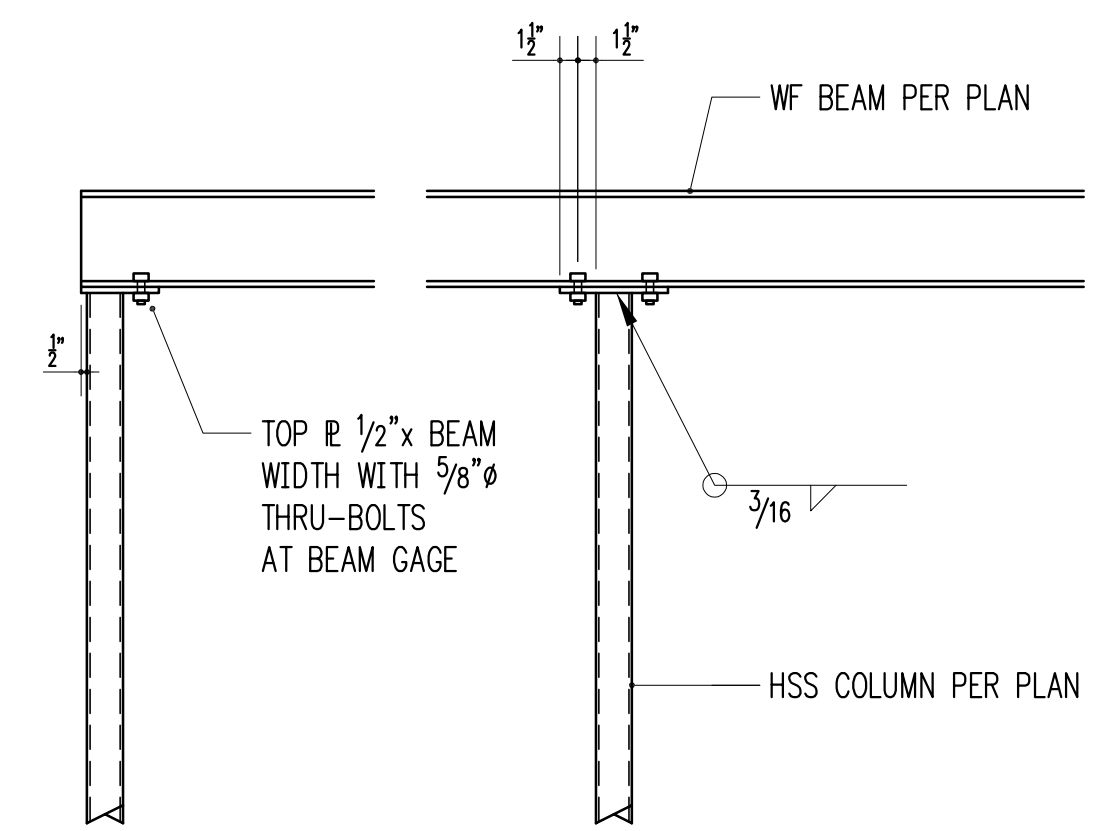
BOLT TYPE SHALL BE A325N. PLATE MATERIAL SHALL BE A36.



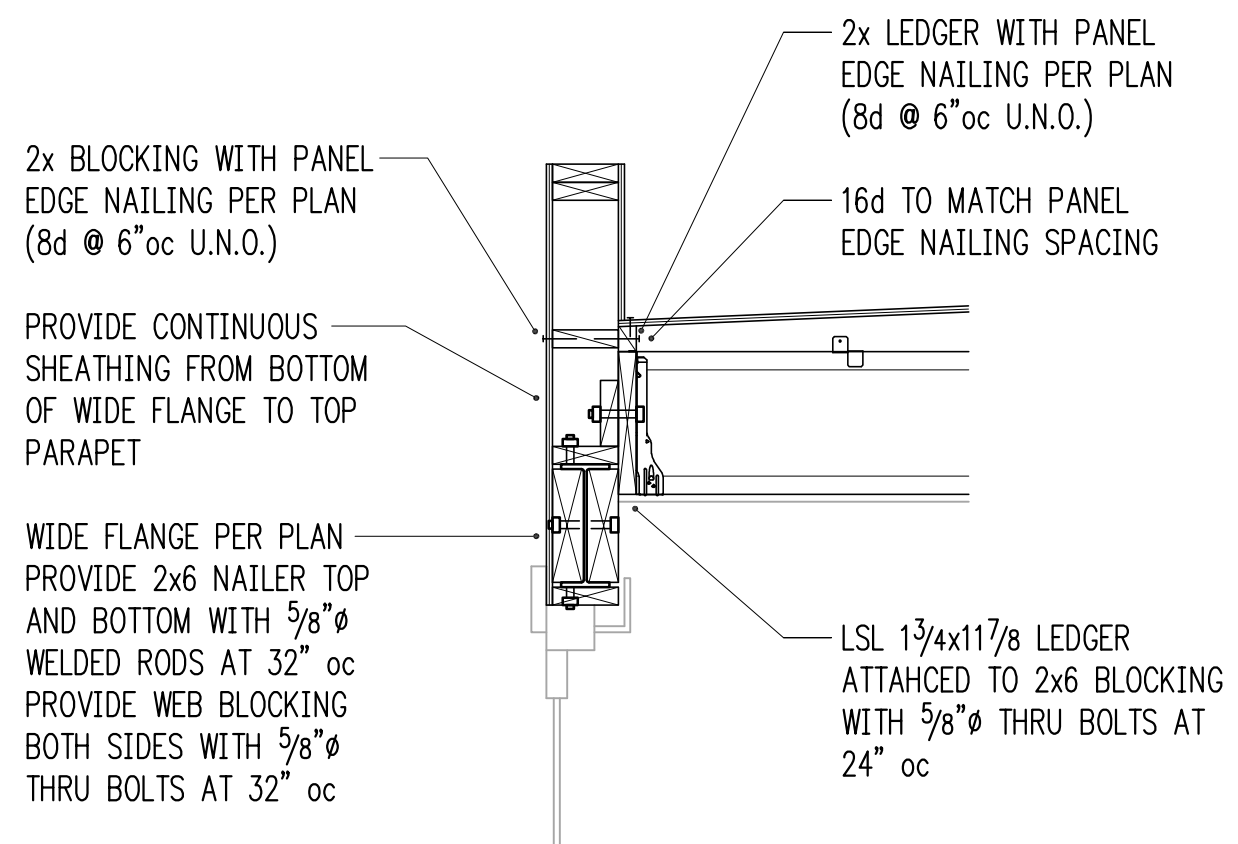
TYPICAL SHEAR TAB CONNECTION
3/4" = 1'-0" 2



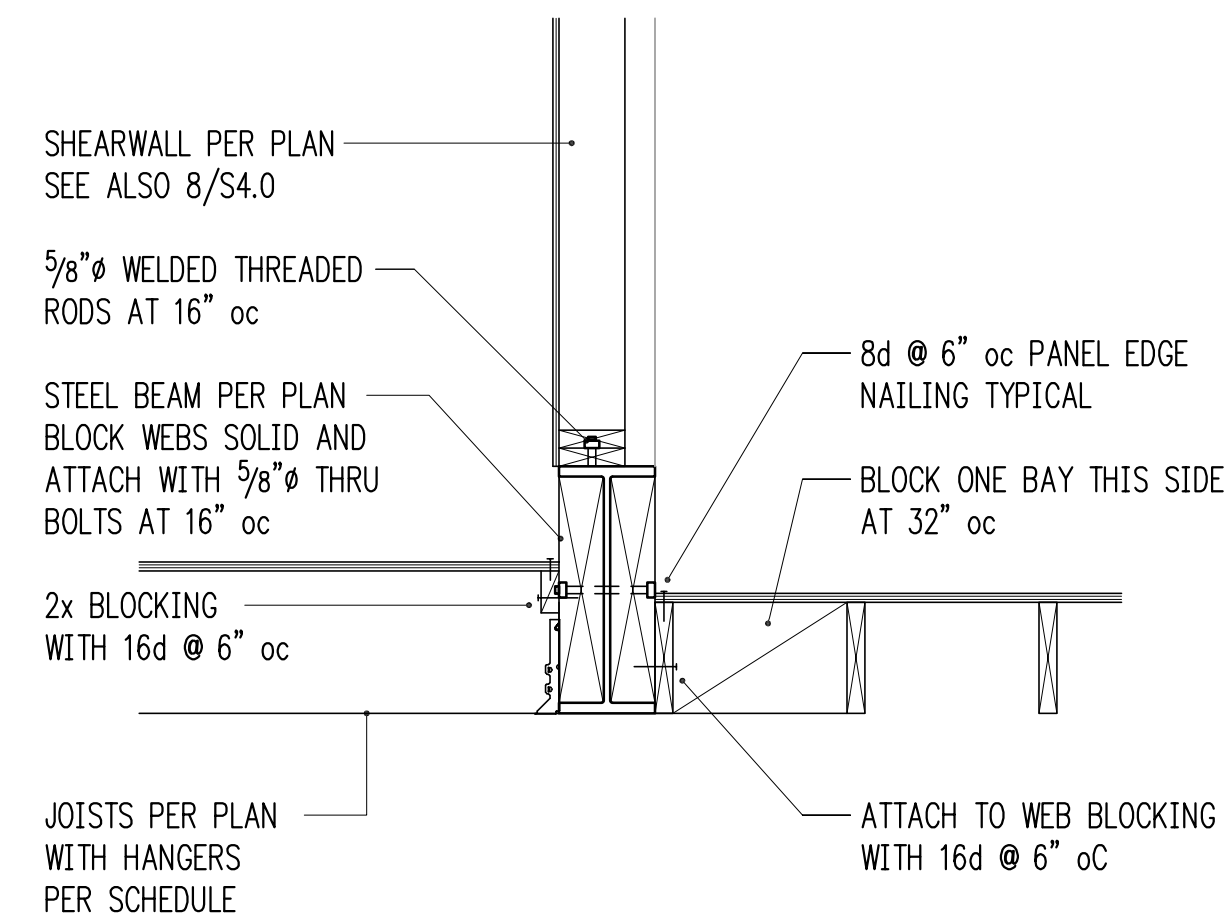
WF BEAM BEARING ON WOOD COLUMN
3/4" = 1'-0" 3



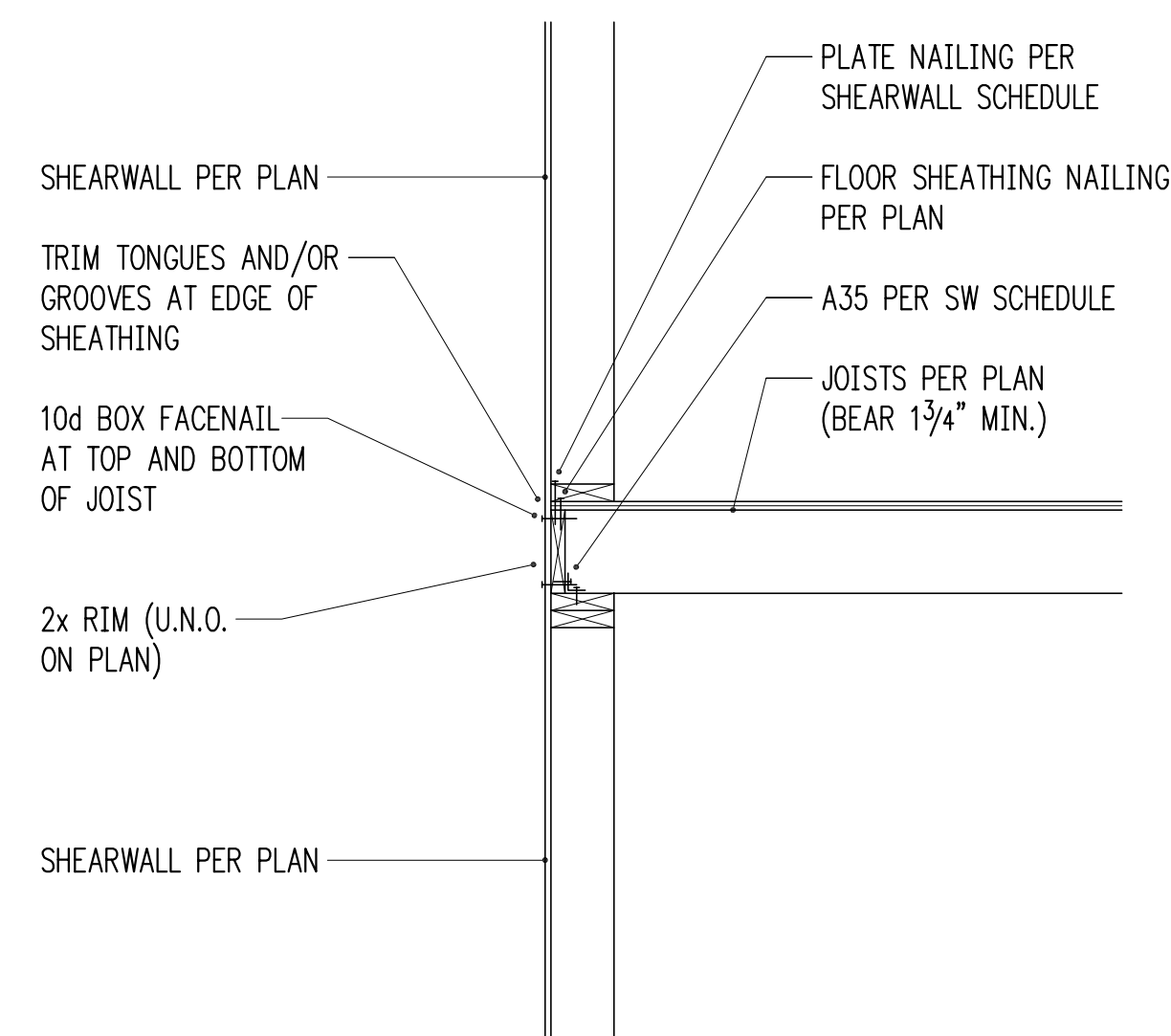
WF BEAM BEARING ON HSS COLUMN
3/4" = 1'-0" 4



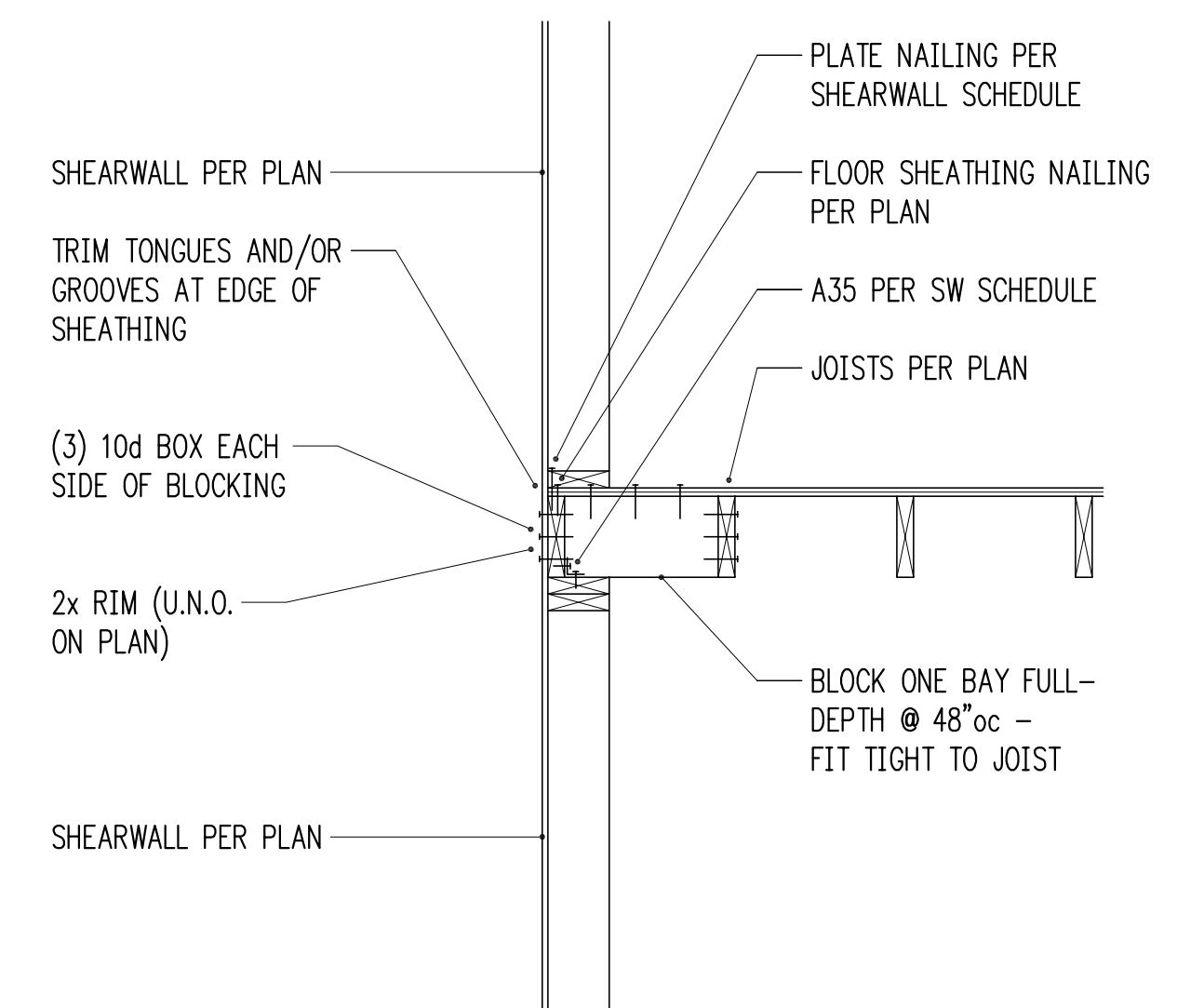
3/4" = 1'-0" 5



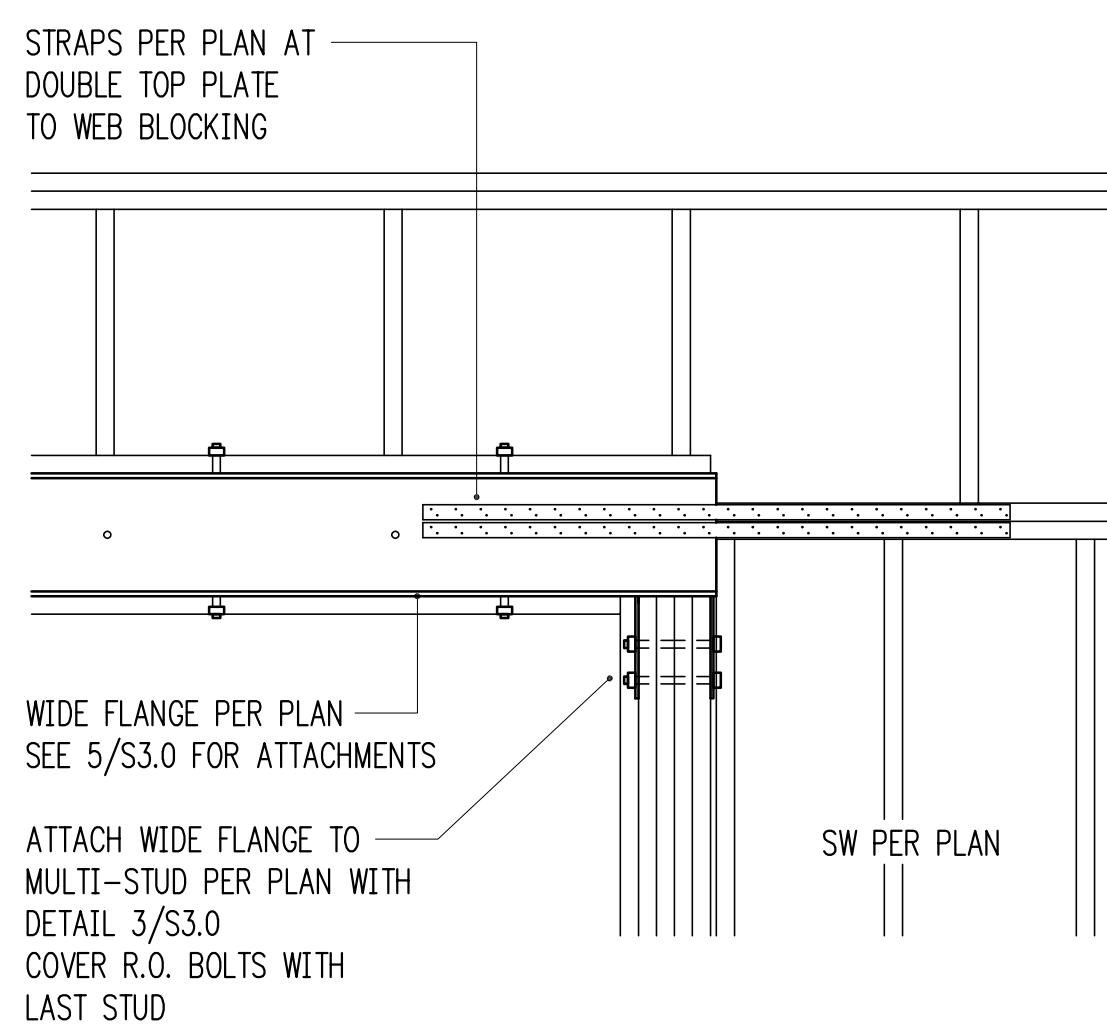
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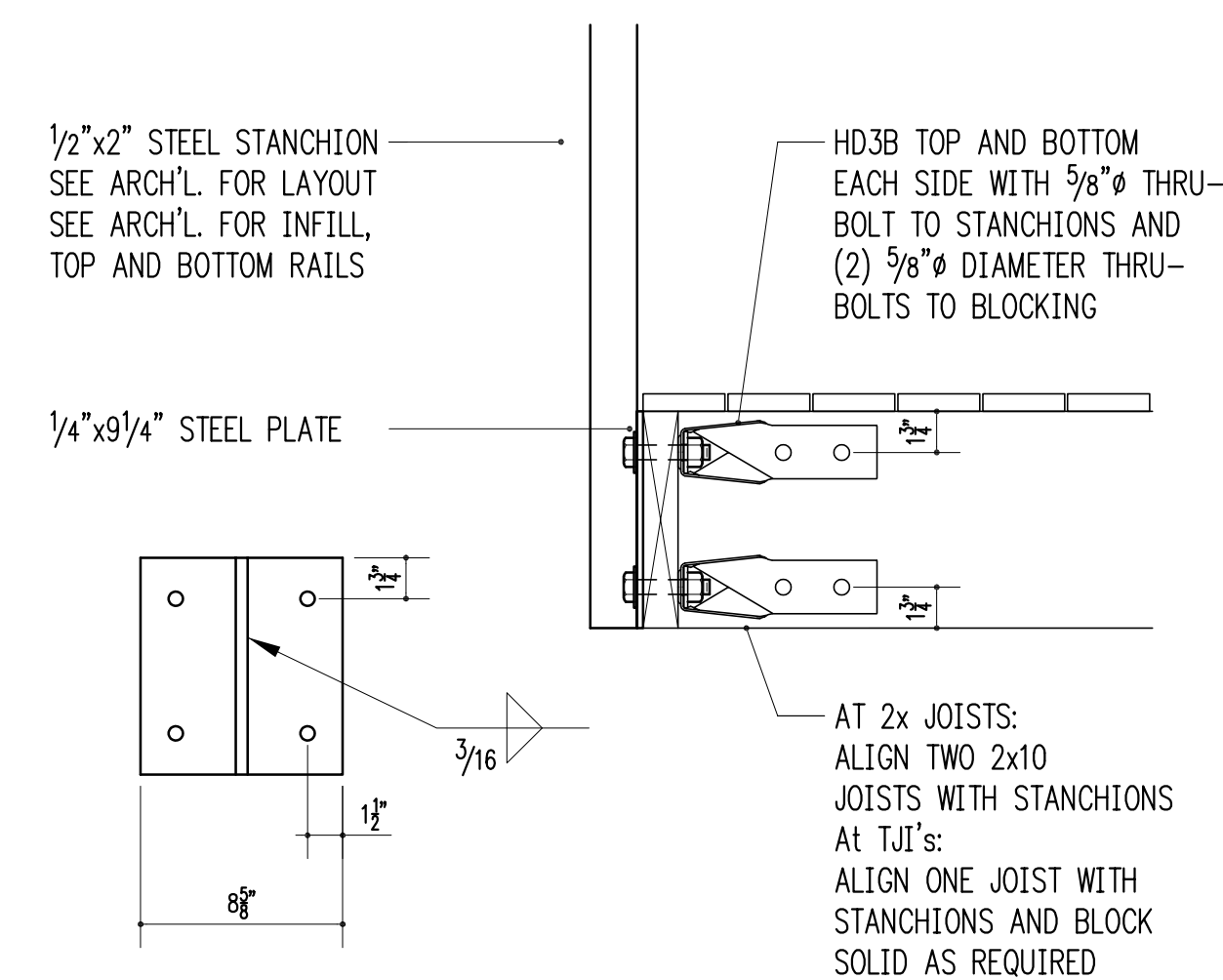
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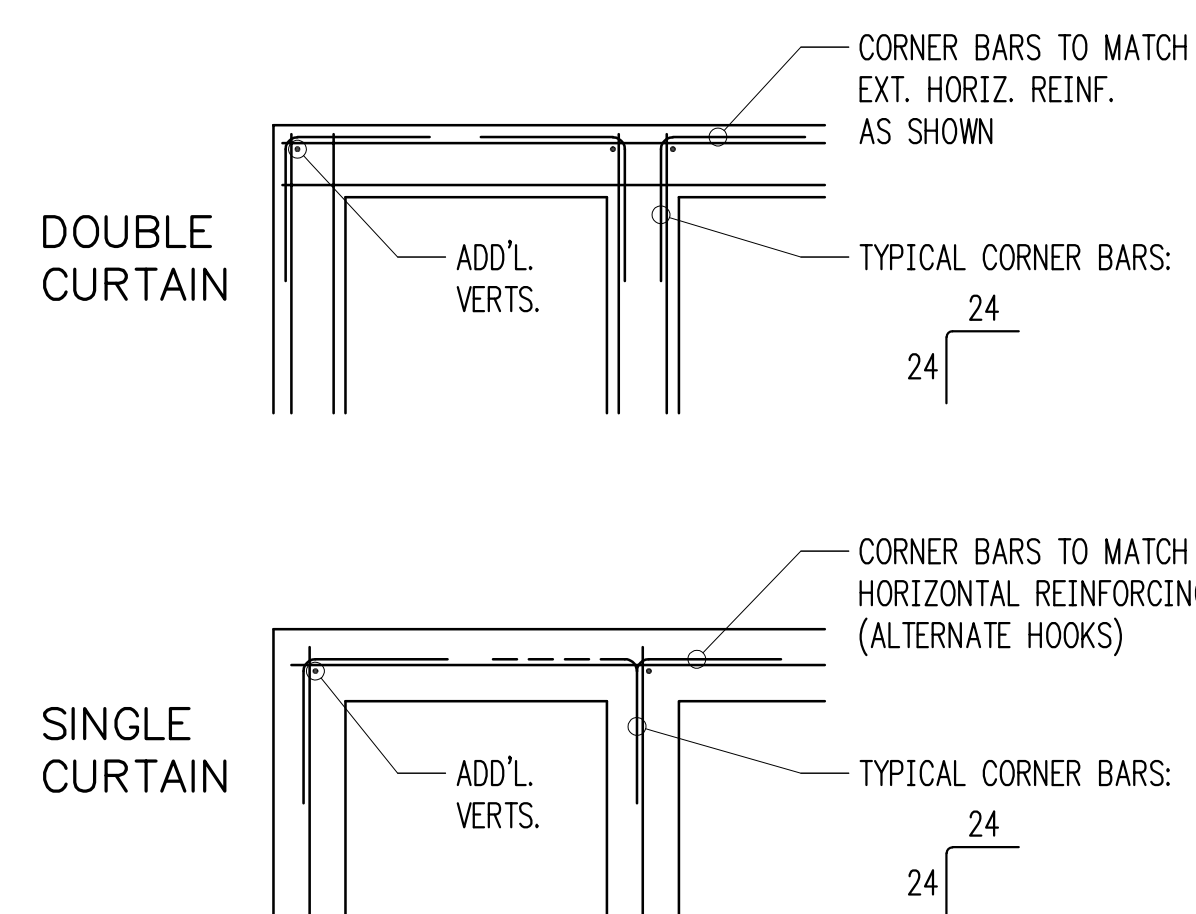
3/4" = 1'-0" 8



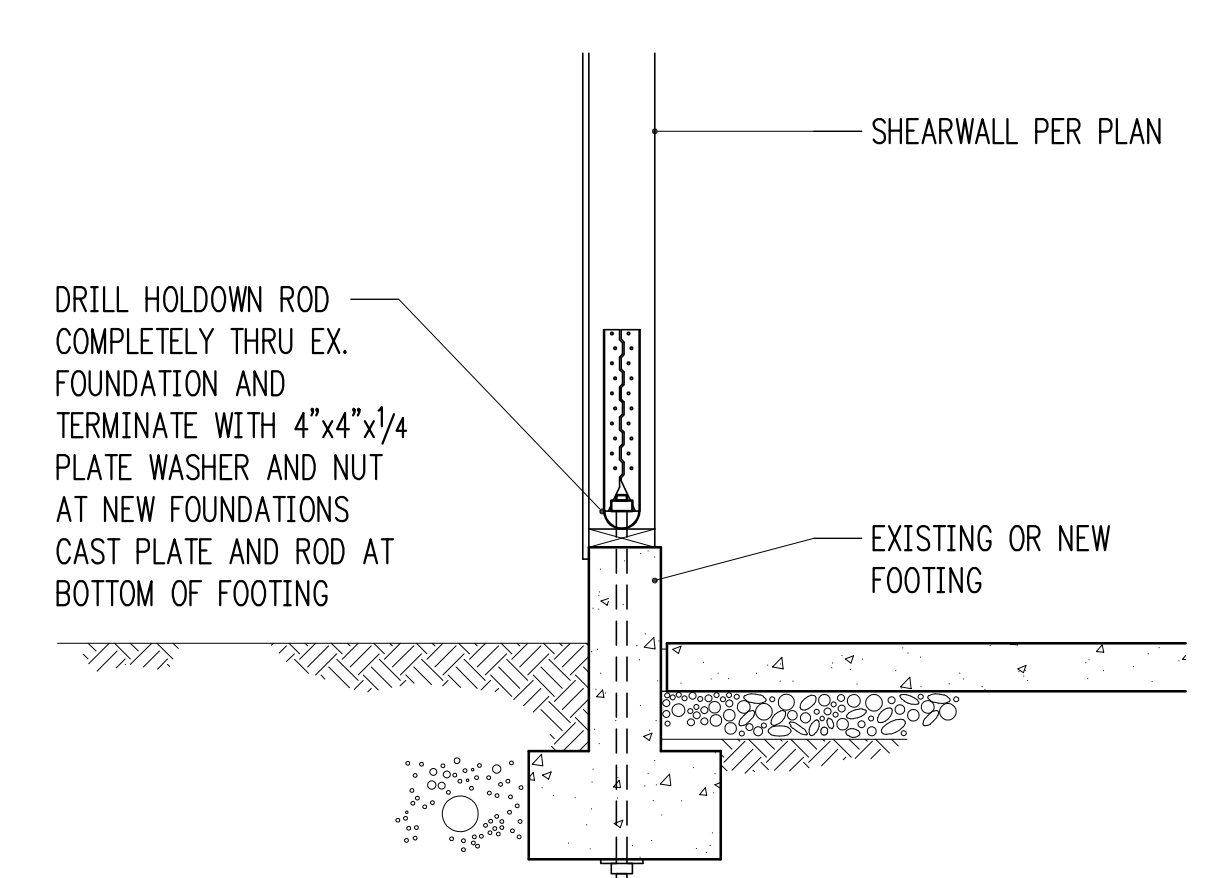
3/4" = 1'-0" 9



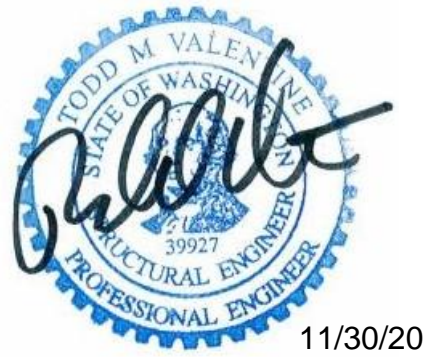
1-1/2" = 1'-0" 10



TYPICAL CORNER BARS AT CONCRETE WALLS
3/4" = 1'-0" 11



3/4" = 1'-0" 12



11/30/20

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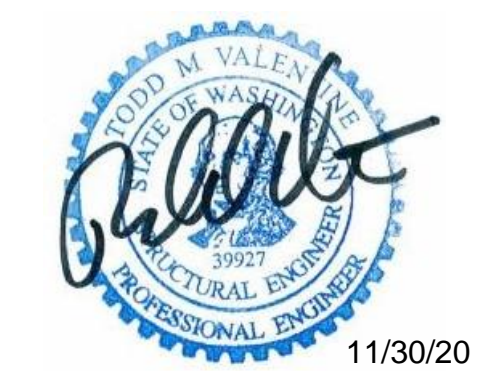
Issue Date	Issue Description
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7/26/19	Framing Revisions
11/7/20	Corrections #1
4/3/20	Framing Revisions
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4/24/20	Trellis Revisions
6/1/20	Corrections #2
8/17/20	Revisions
8/31/20	Foundation Revisions
10/8/20	Framing Revisions
10/14/20	Pin Pile Revision
11/13/20	Revisions
11/30/20	Revisions

Building Department Approval

Drawing Title
STRUCTURAL DETAILS

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S3.0



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11/30/20	Revisions

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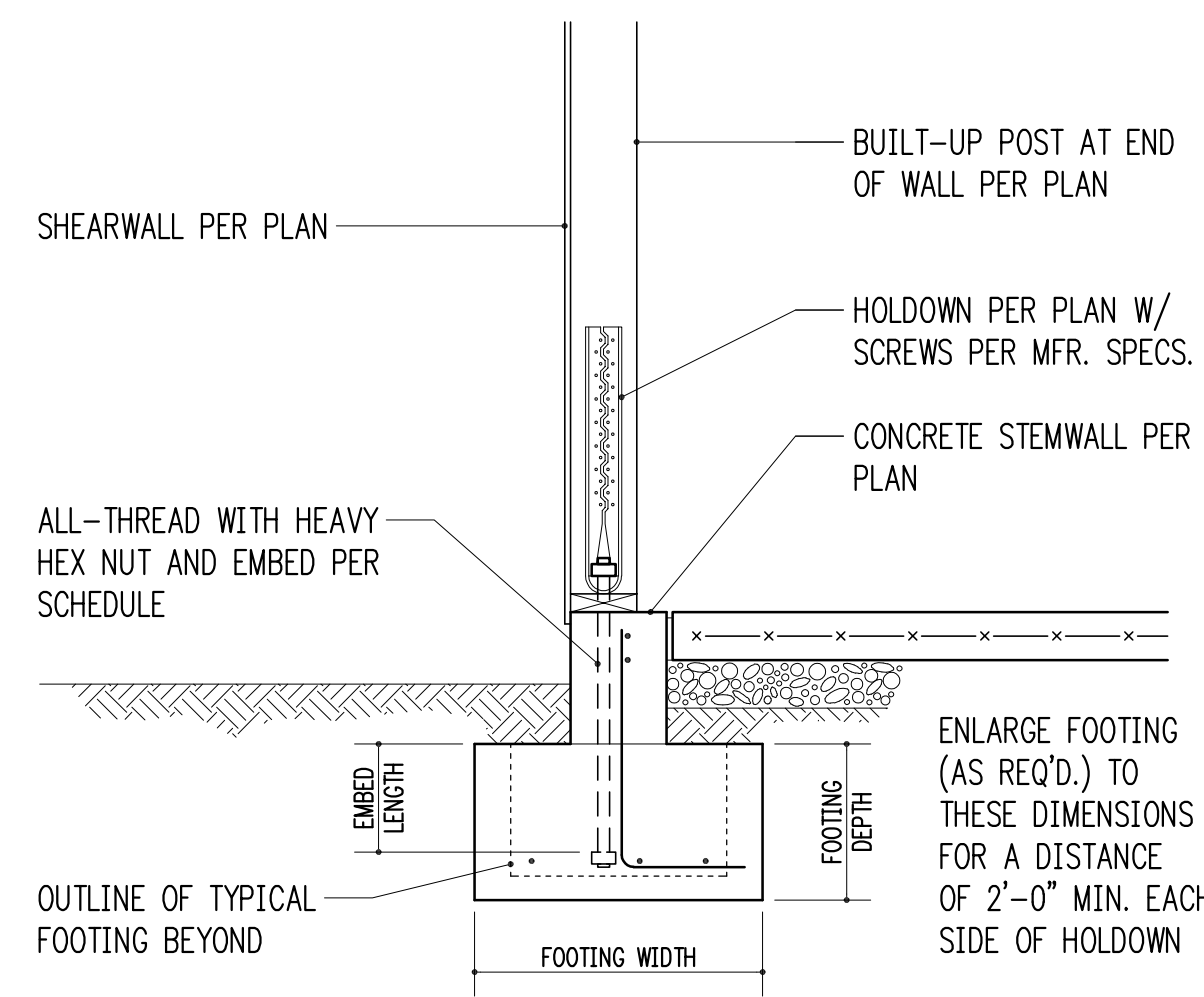
S3.1

WERELIUS RESIDENCE

HEAVY-DUTY HOLDOWN SCHEDULE

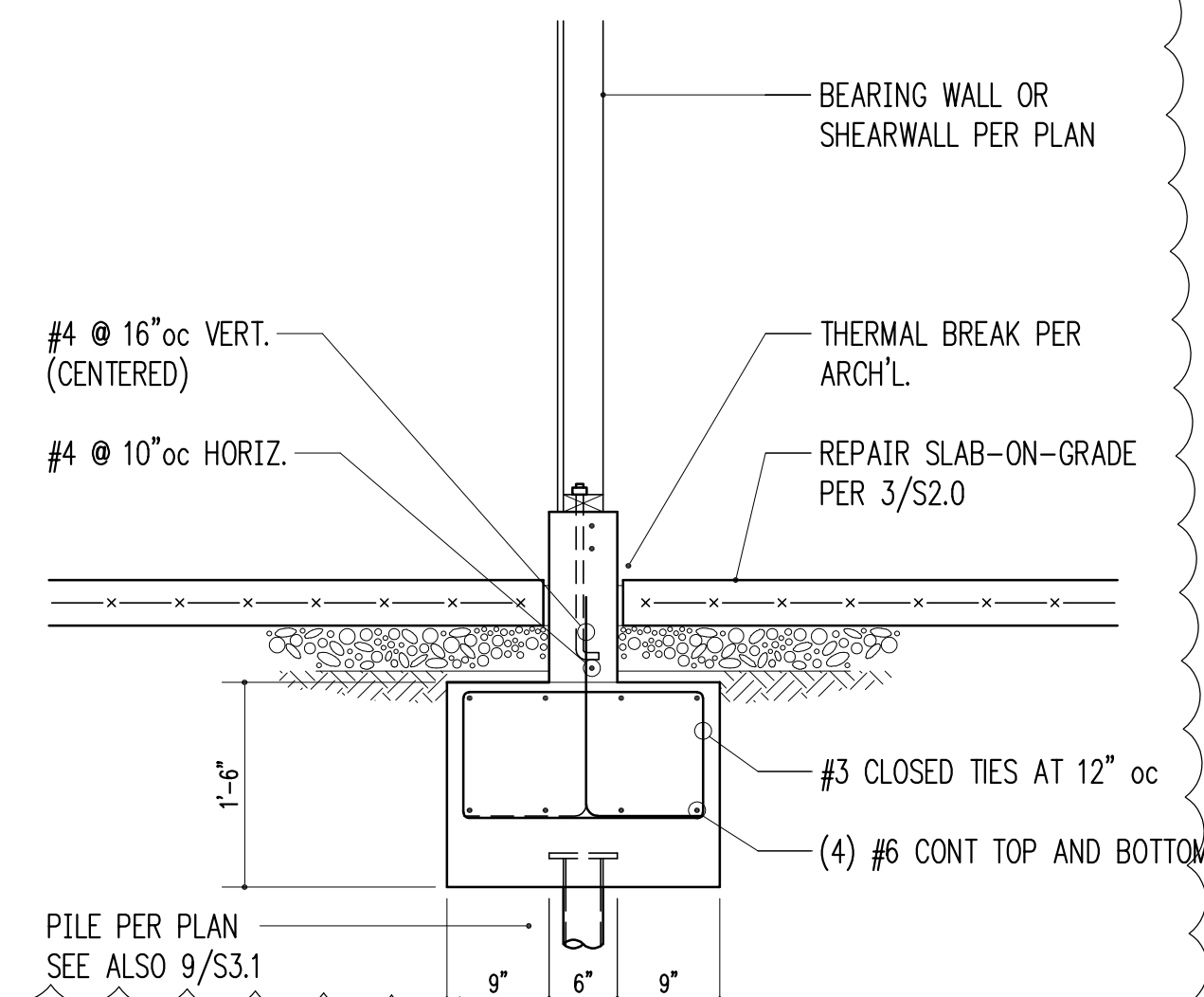
MARK	FASTENERS TO STUDS ¹	ANCHOR DIA. ²	EMBED LENGTH	FOOTING WIDTH	FOOTING DEPTH
HDUB	(20) 1/4"φ x 2 1/2" SCREWS	7/8"	6"	16"	9"
HDU11	(30) 1/4"φ x 2 1/2" SCREWS	1"	6"	24"	10"
HDU14	(36) 1/4"φ x 2 1/2" SCREWS	1"	9"	24"	13"

- SCREWS SHALL BE SIMPSON "SDS" TYPE SCREWS, INSTALL PER SIMPSON RECOMMENDATIONS.
- PROVIDE A36 OR A307 ALL-THREAD FOR ANCHORS. THE ANCHORS LISTED IN THIS SCHEDULE MUST BE CAST-IN-PLACE.

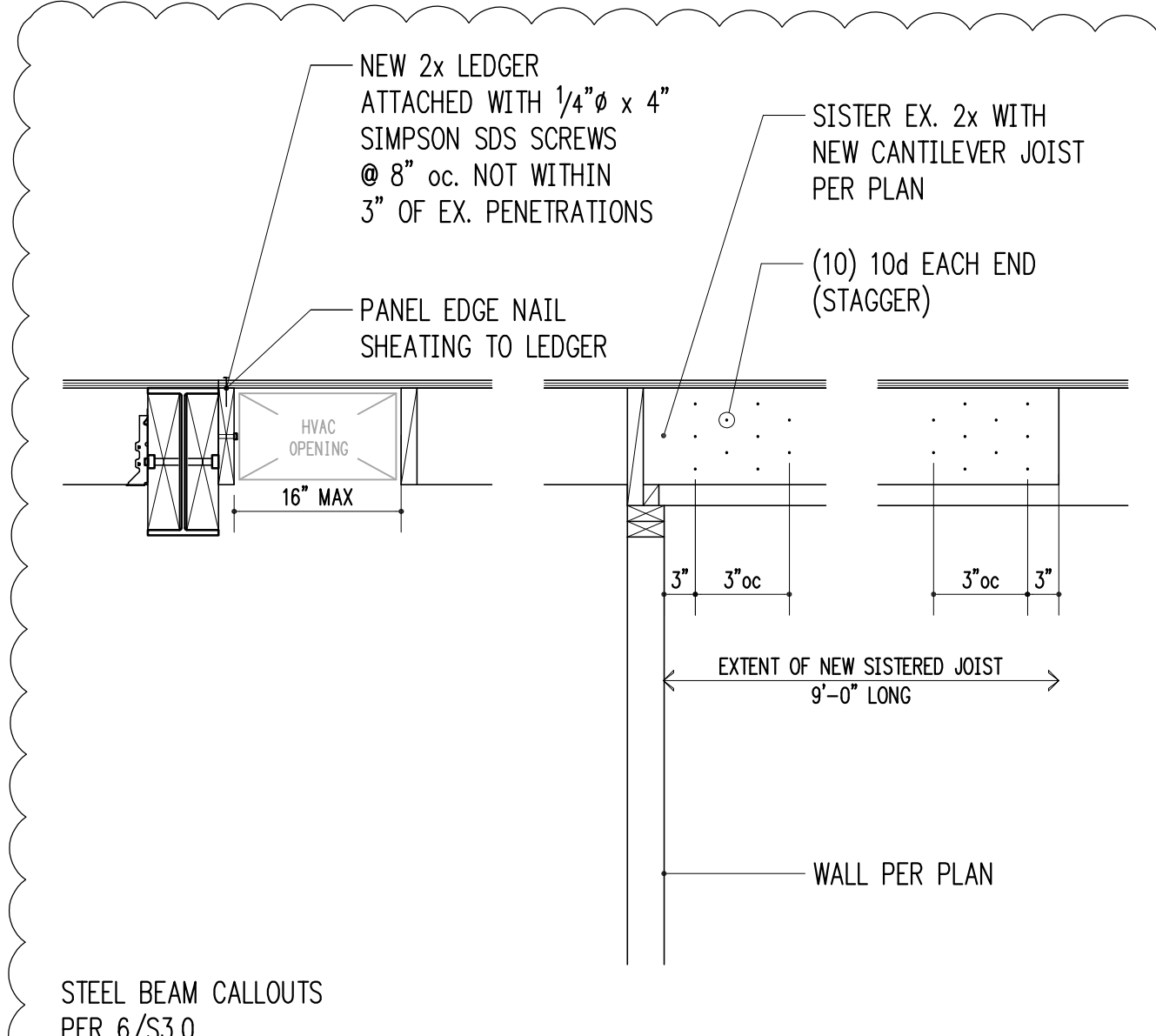


HEAVY-DUTY HOLDOWN AT CONCRETE

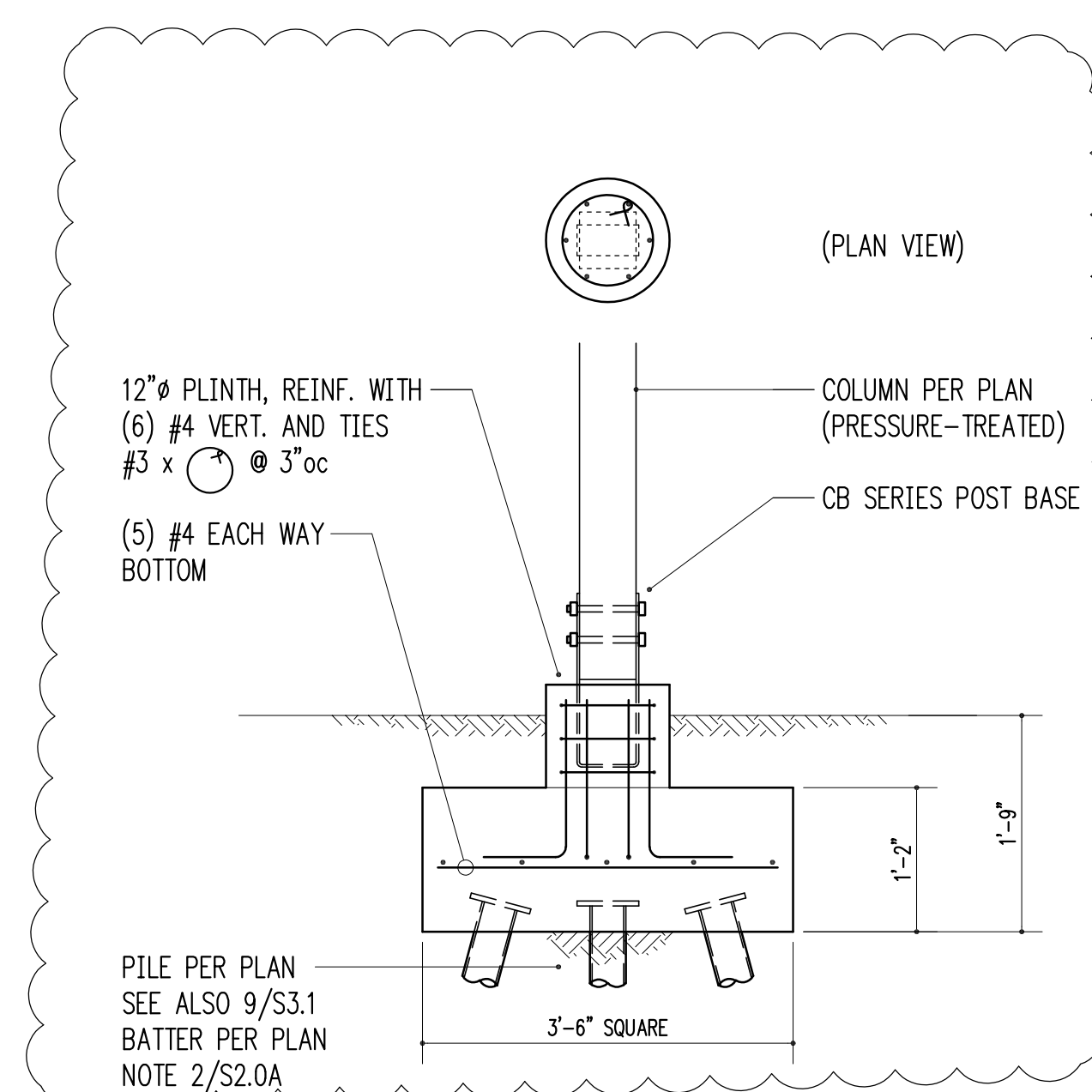
3/4" = 1'-0" 2



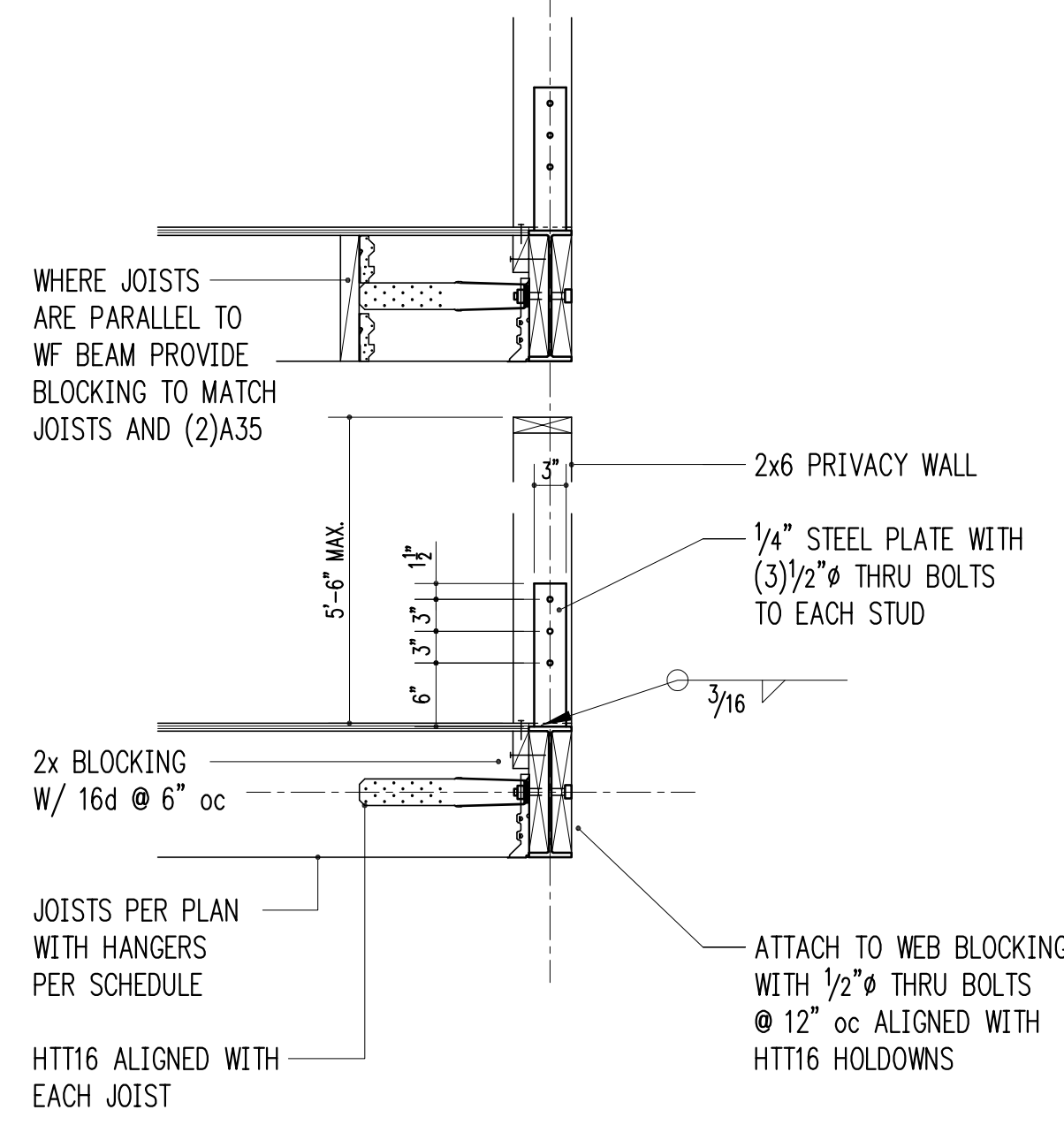
3/4" = 1'-0" 3



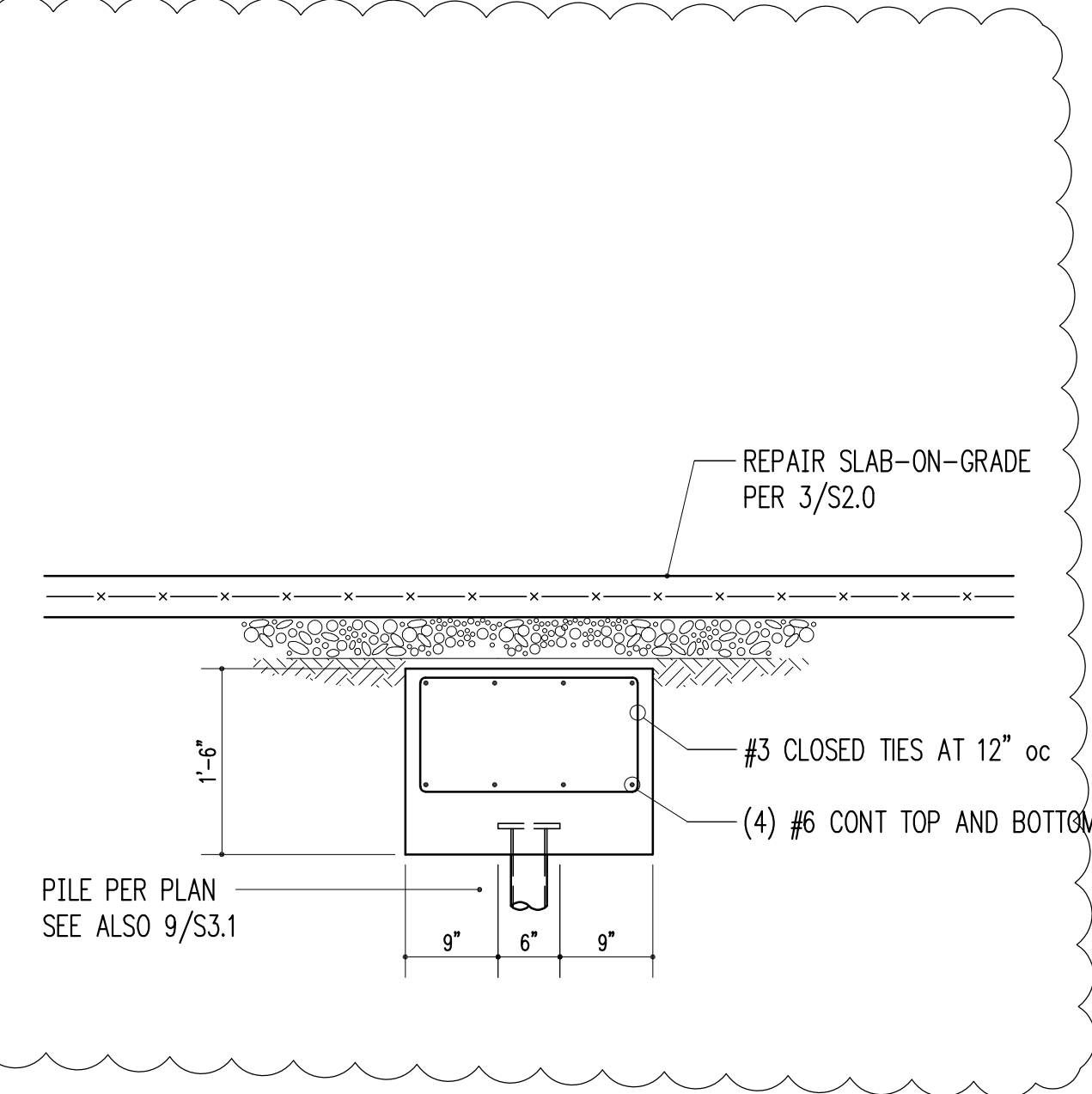
3/4" = 1'-0" 4



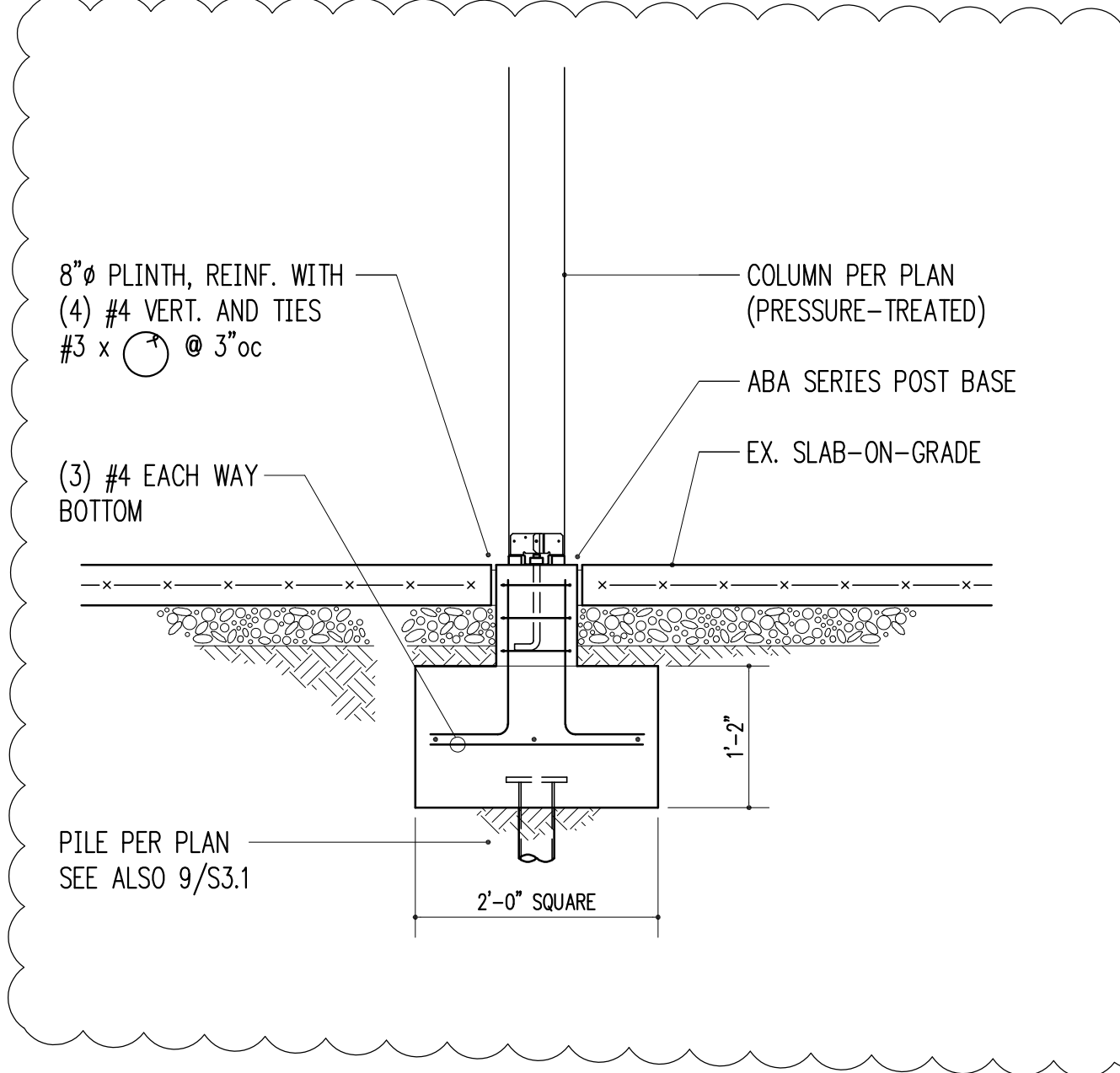
3/4" = 1'-0" 5



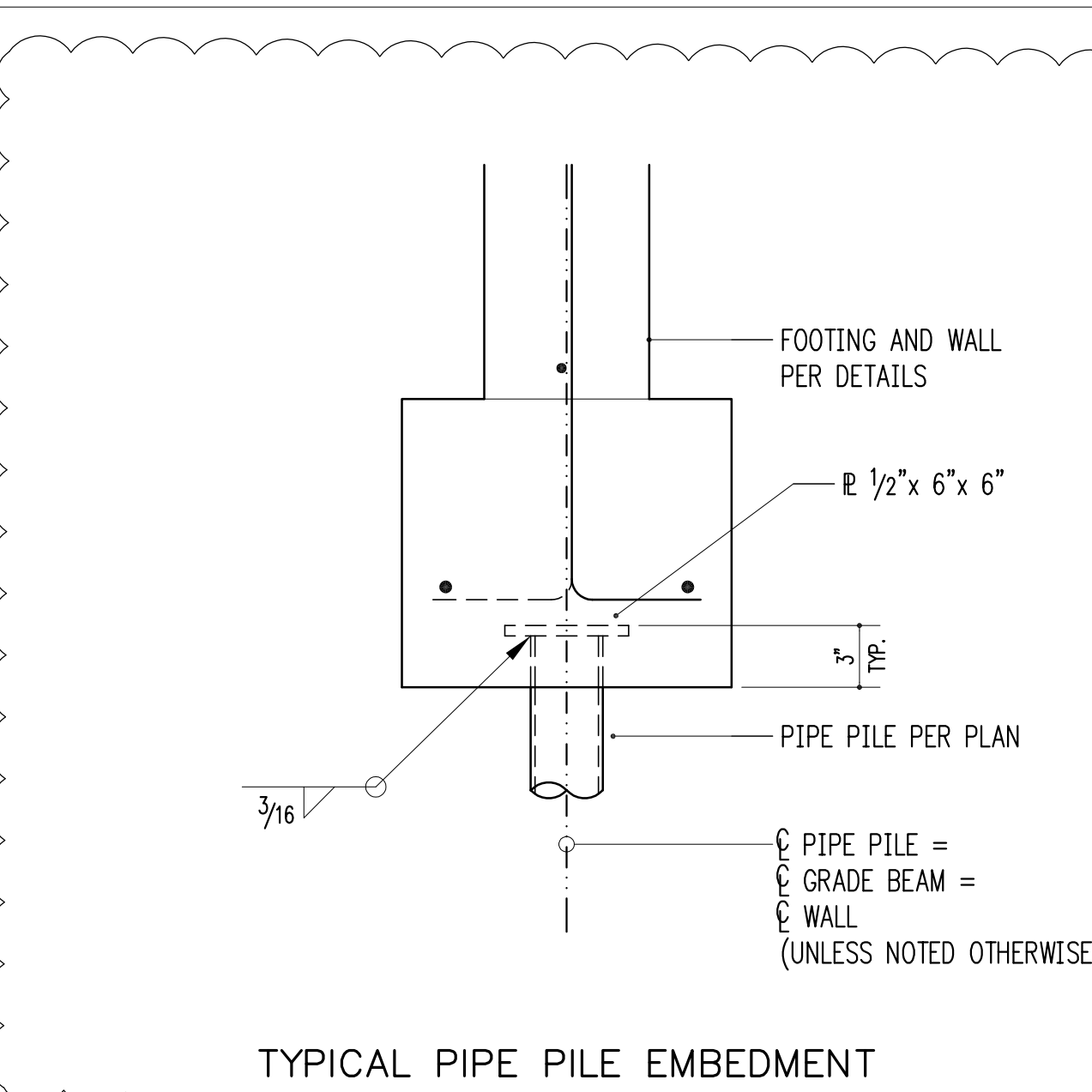
3/4" = 1'-0" 6



3/4" = 1'-0" 7

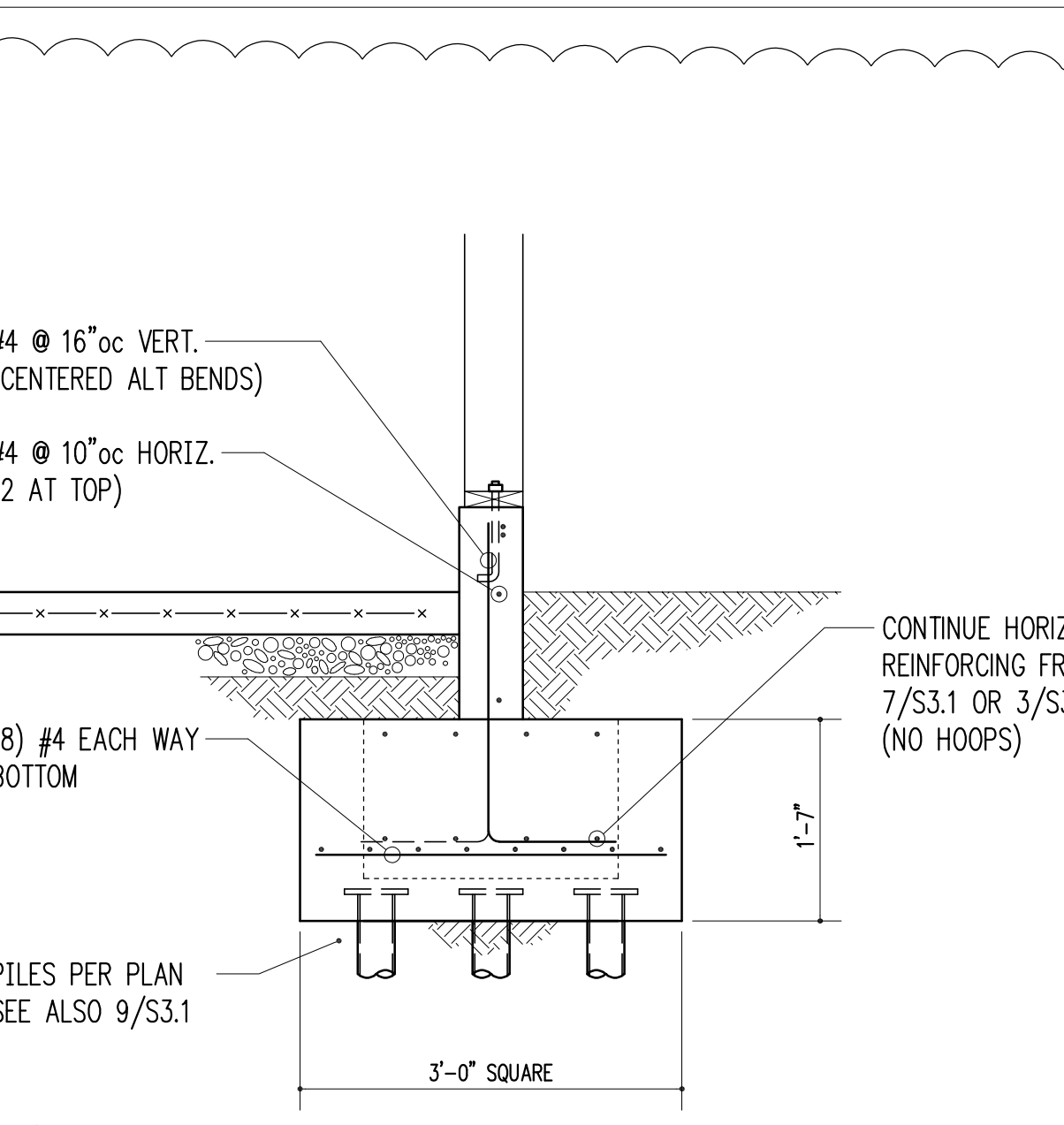


3/4" = 1'-0" 8



TYPICAL PIPE PILE EMBEDMENT

1-1/2" = 1'-0" 9



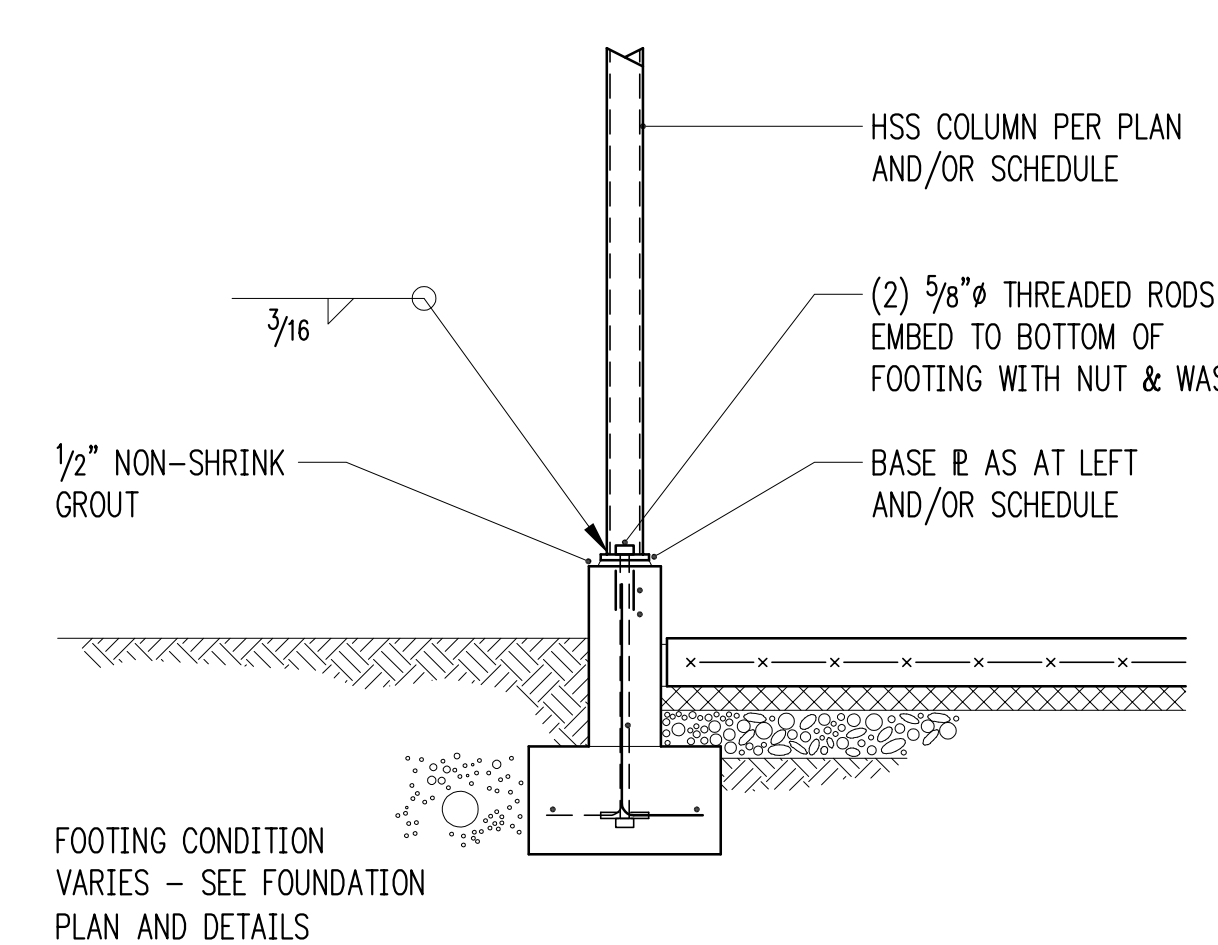
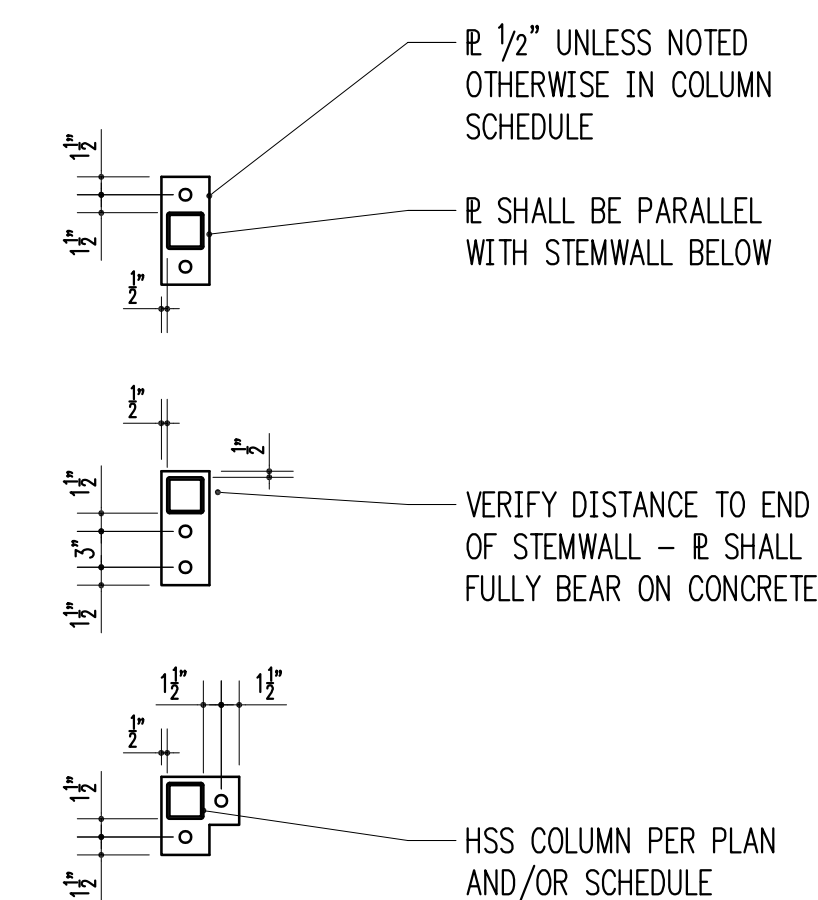
3/4" = 1'-0" 10

BASE PLATE TYPE:

STRAIGHT MARK "BPS" (PLAN OR SCHEDULE)

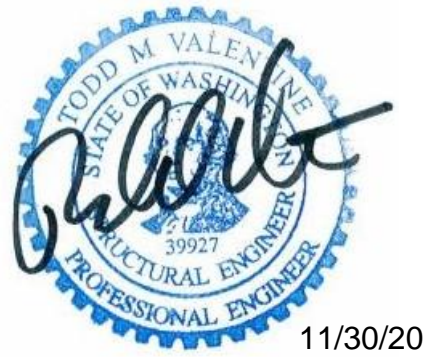
OFFSET MARK "BPO" (PLAN OR SCHEDULE)

CORNER MARK "BPC" (PLAN OR SCHEDULE)



HSS COLUMN BASE PLATES

3/4" = 1'-0" 12



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11/30/20	Revisions

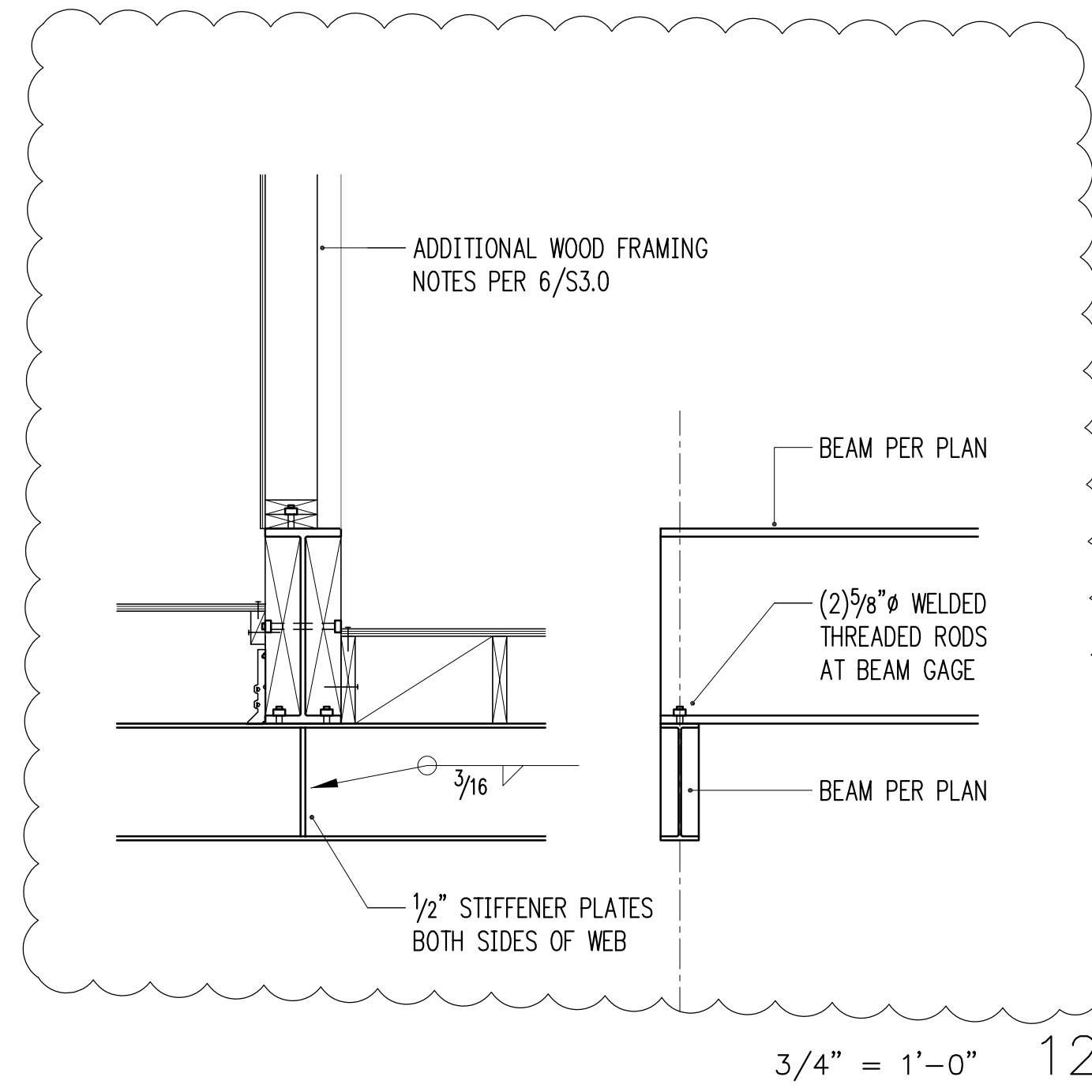
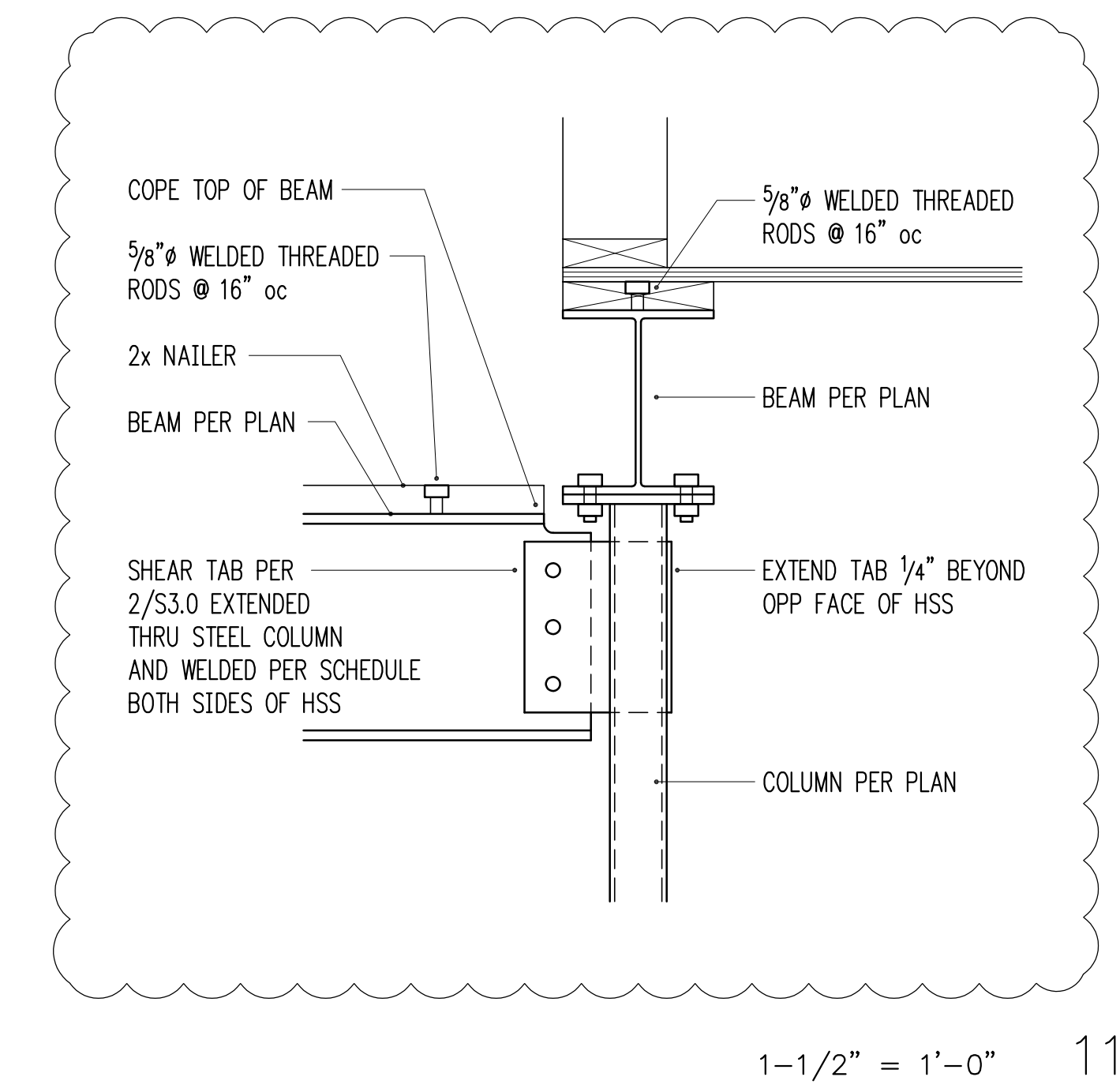
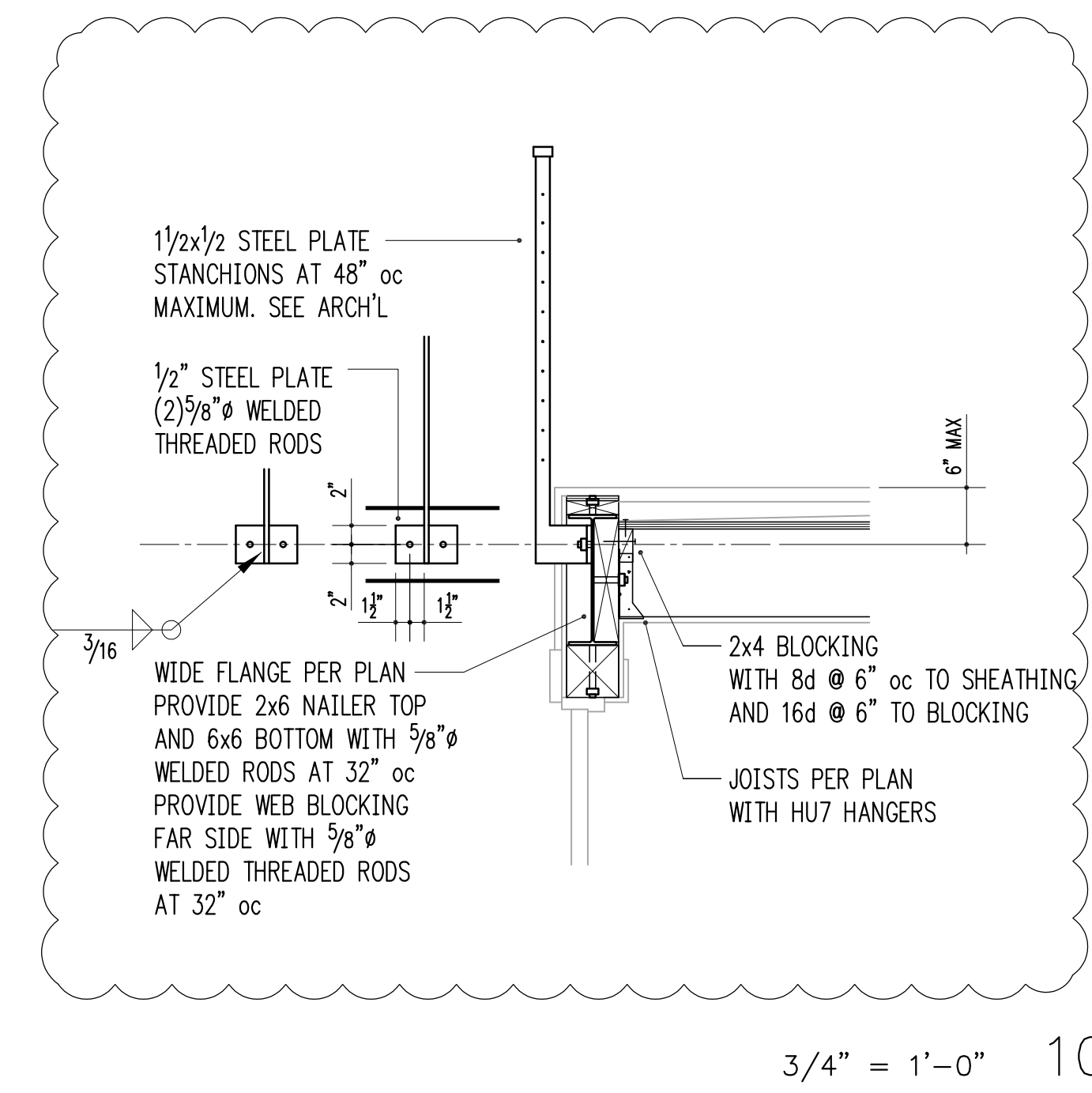
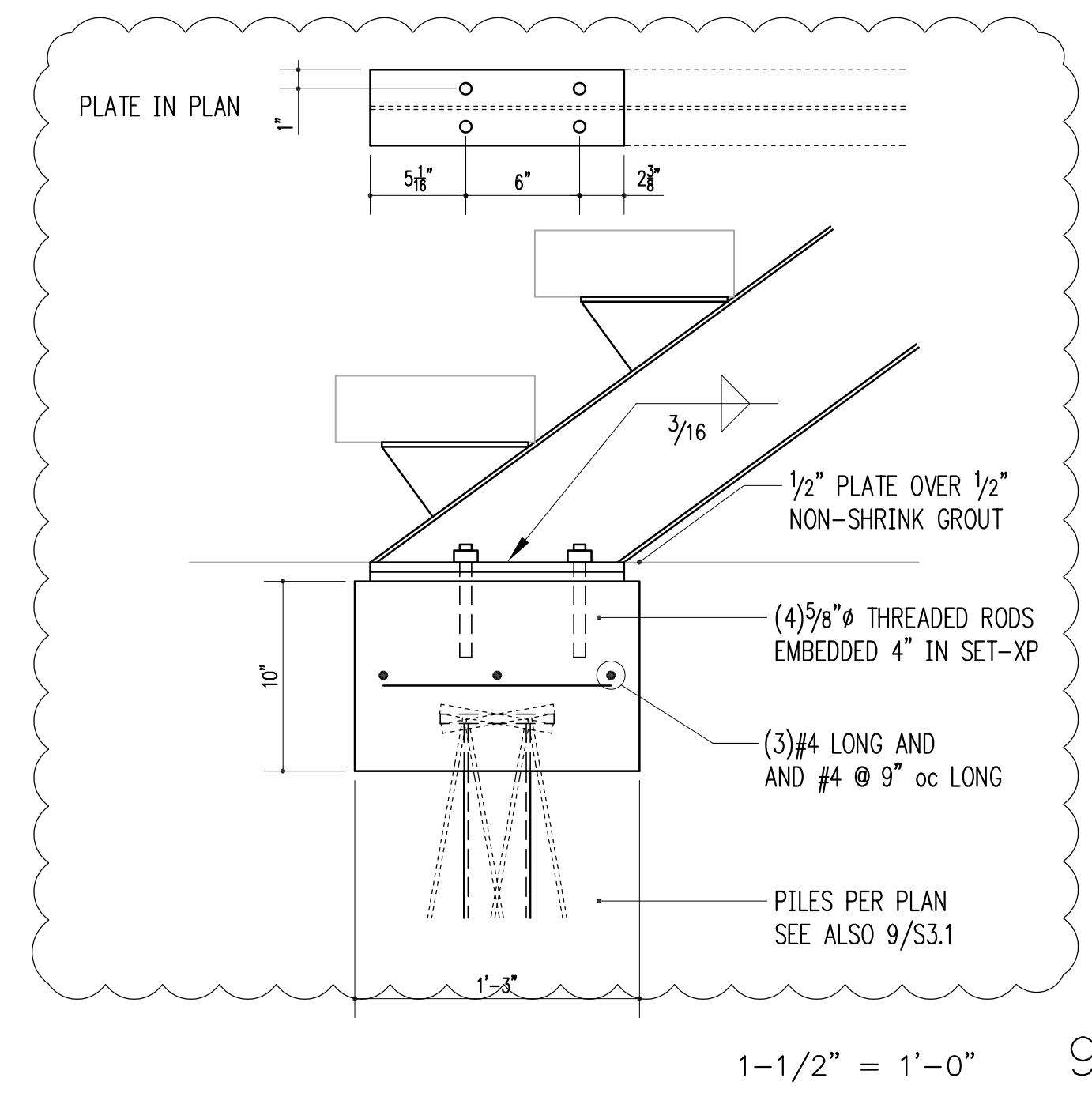
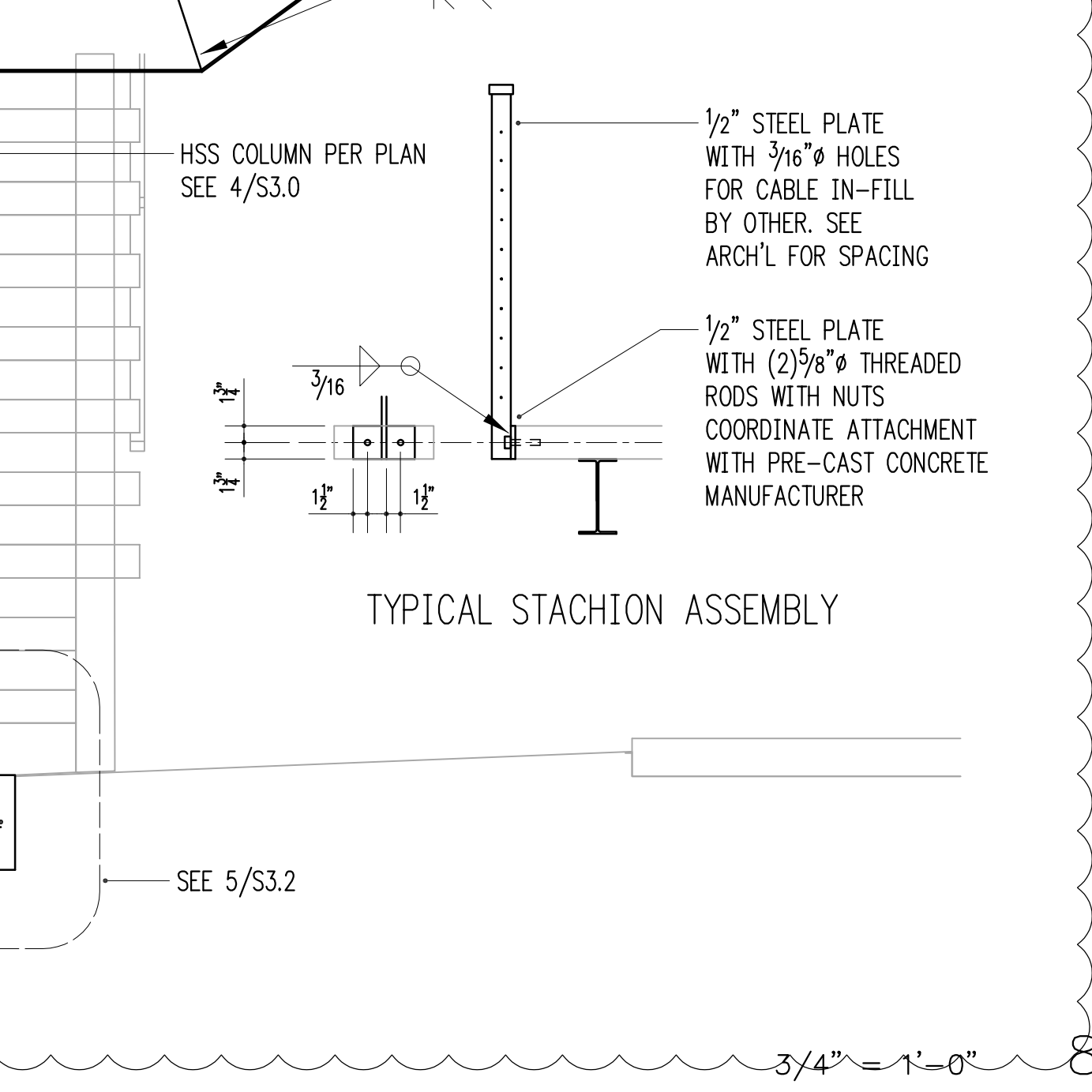
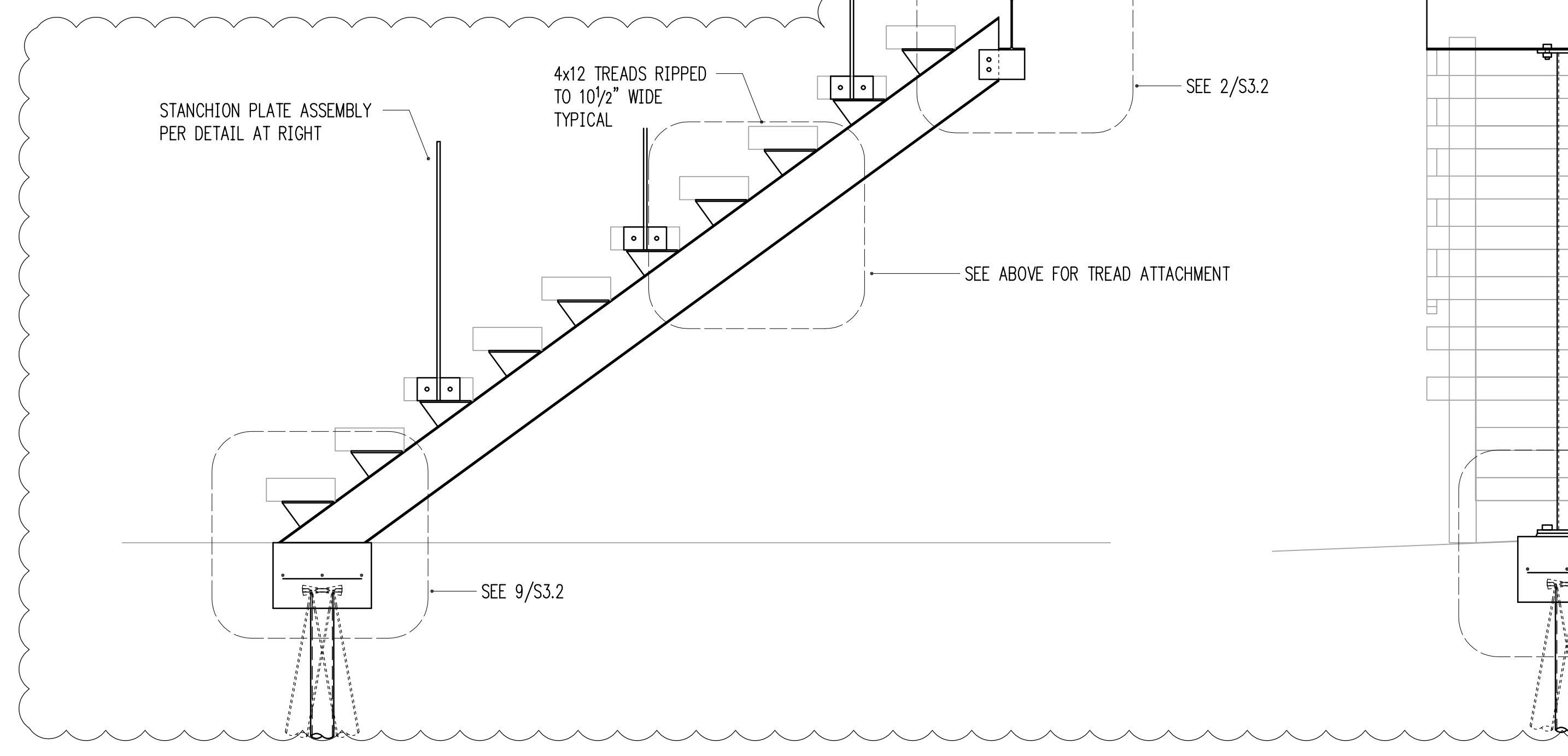
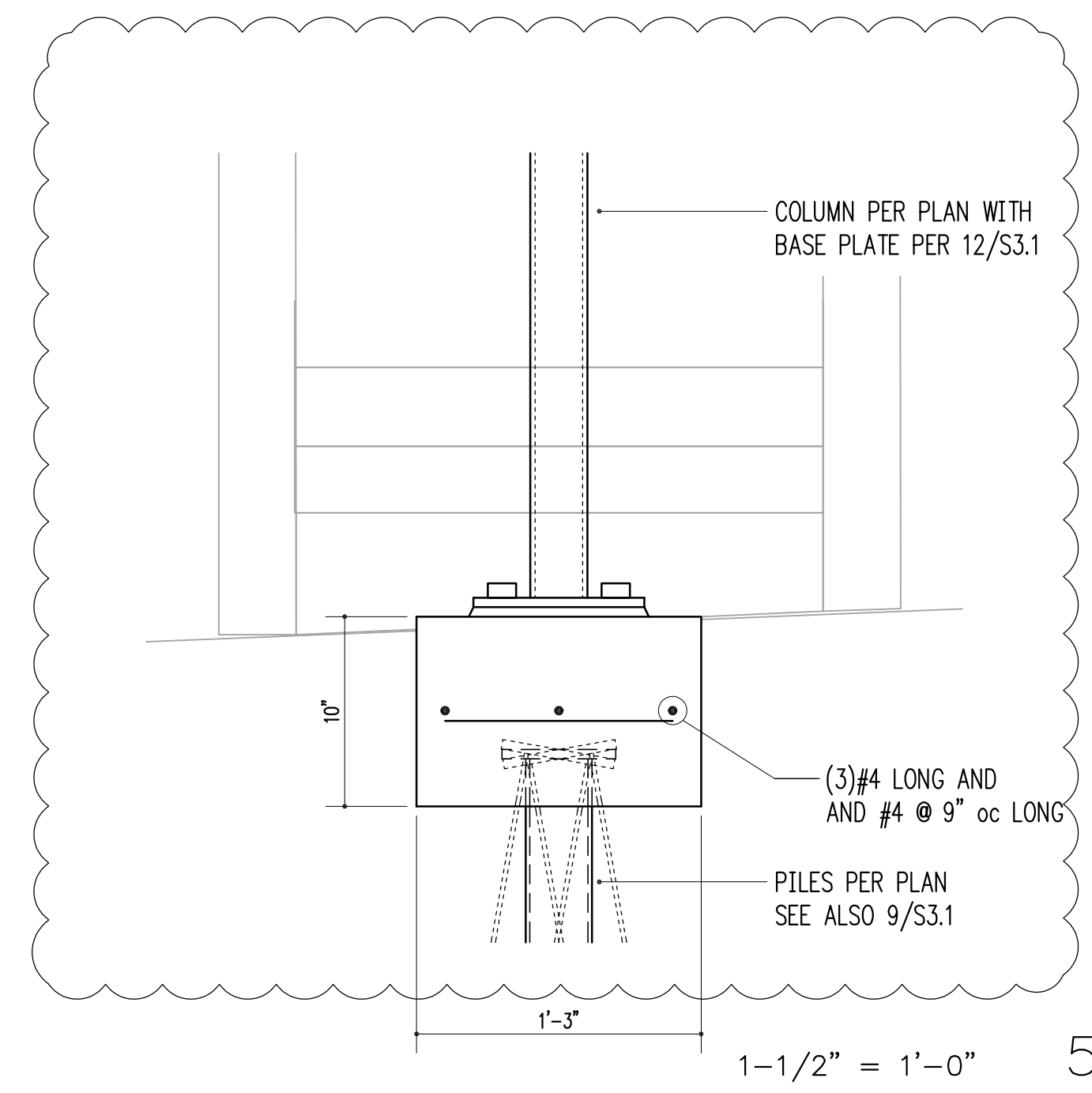
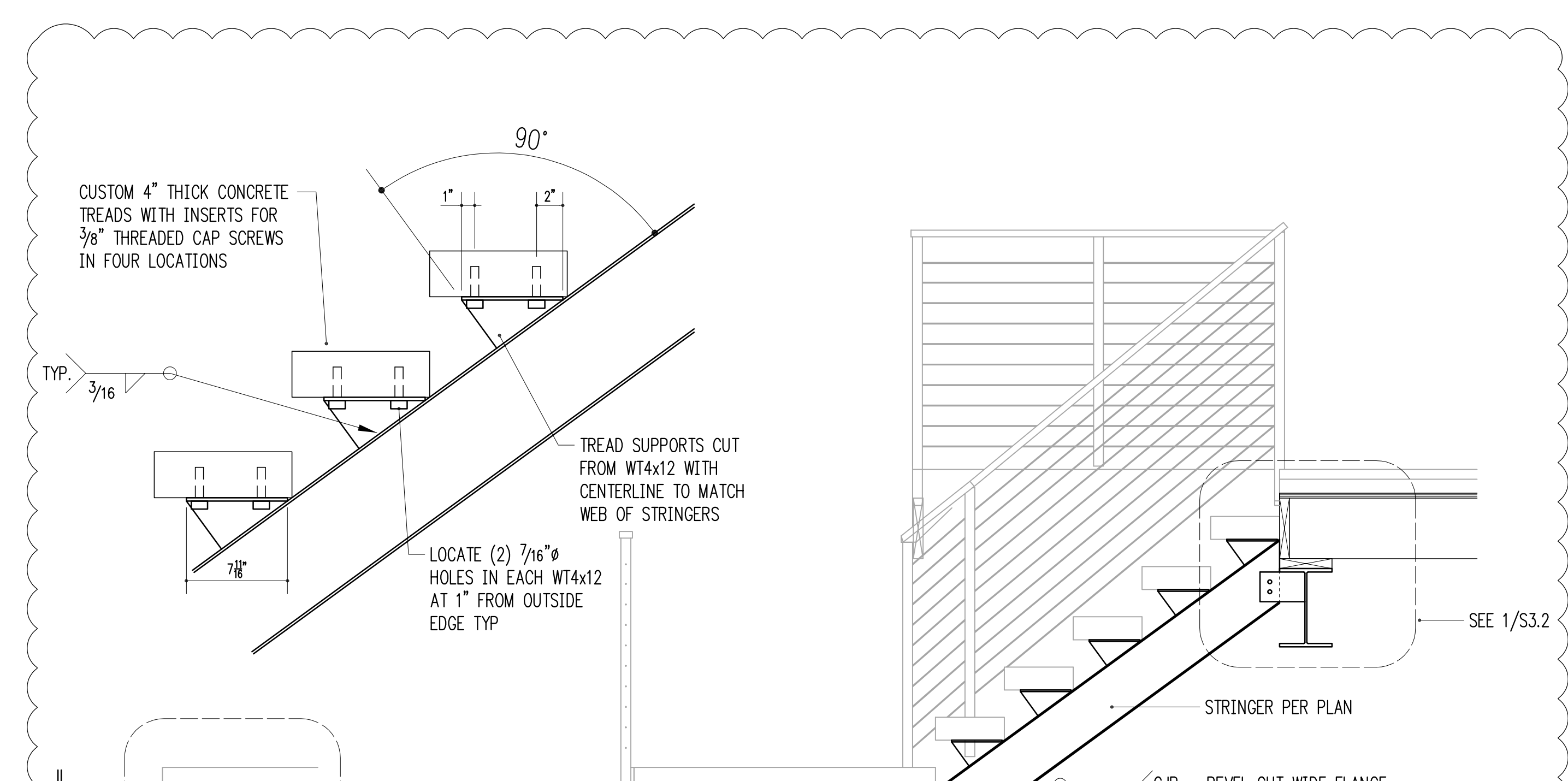
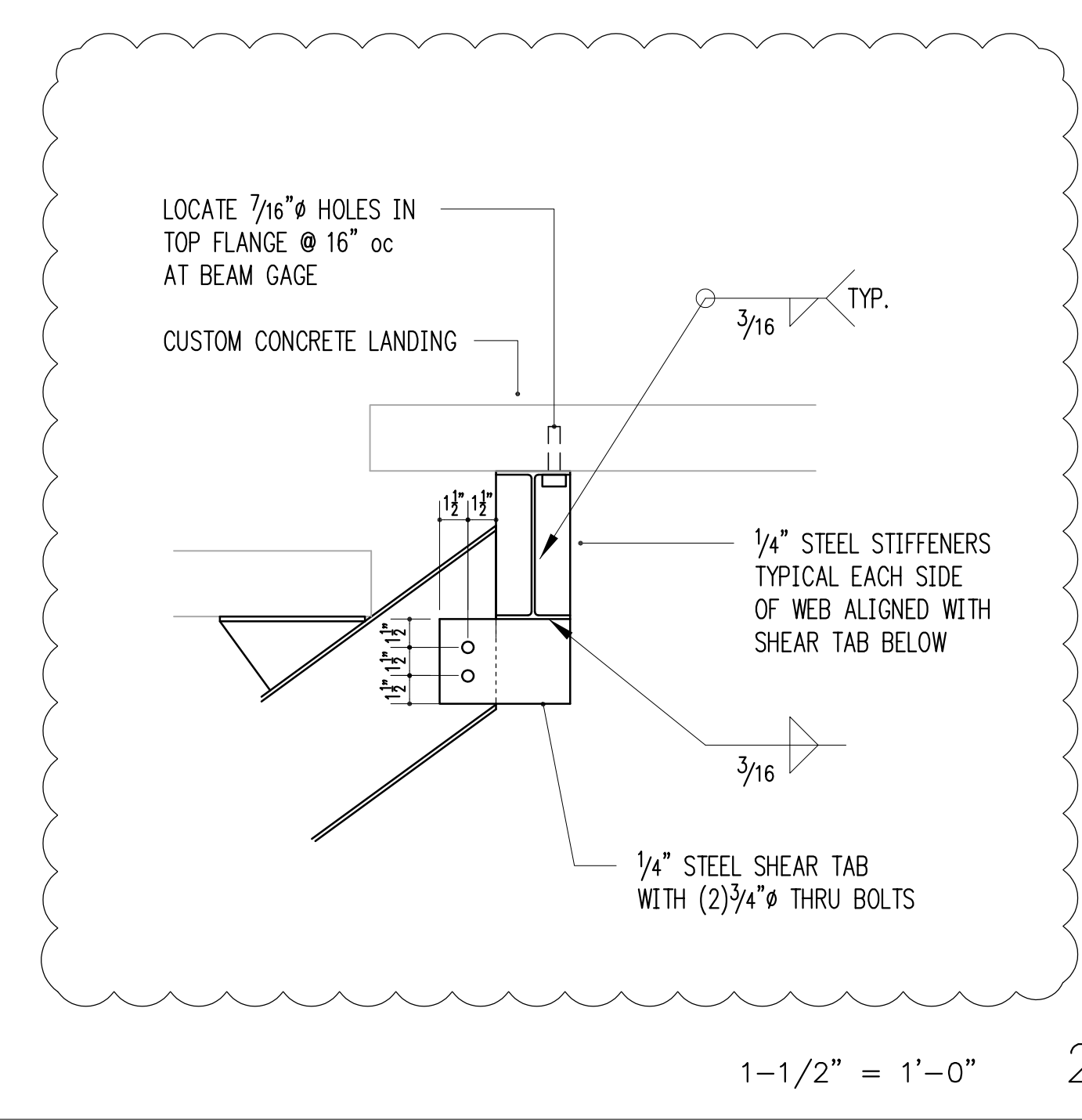
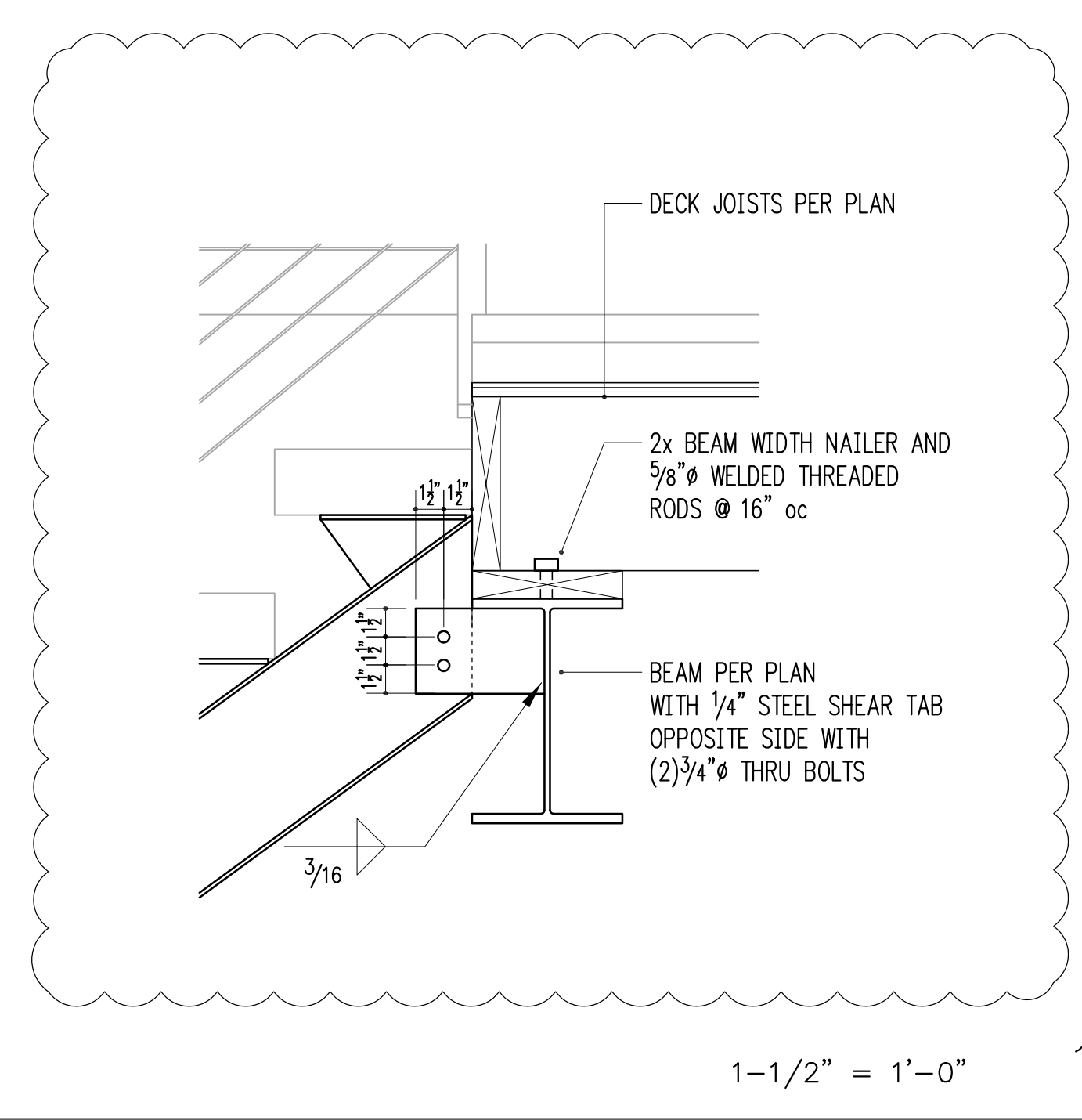
Building Department Approval

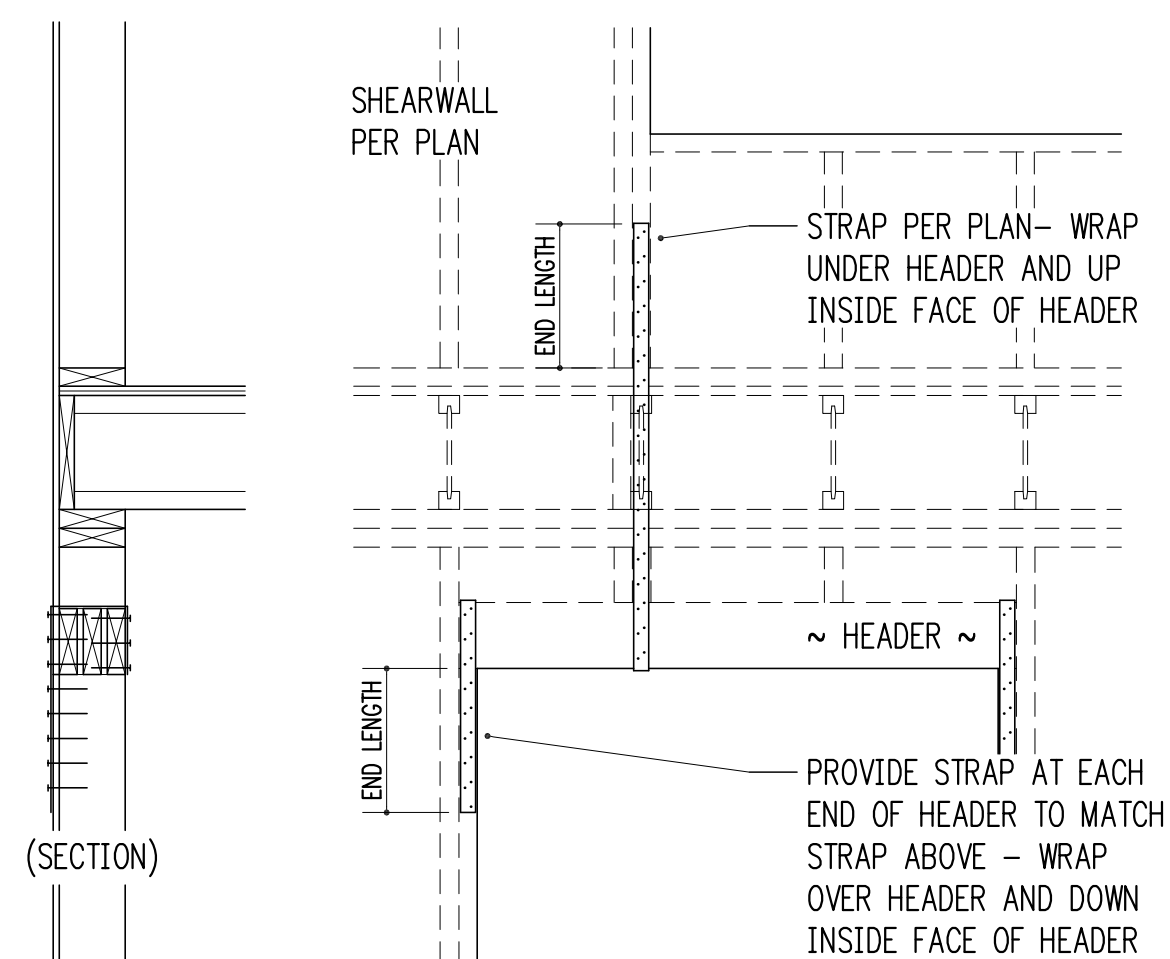
Drawing Title
STRUCTURAL DETAILS

Drawing Number

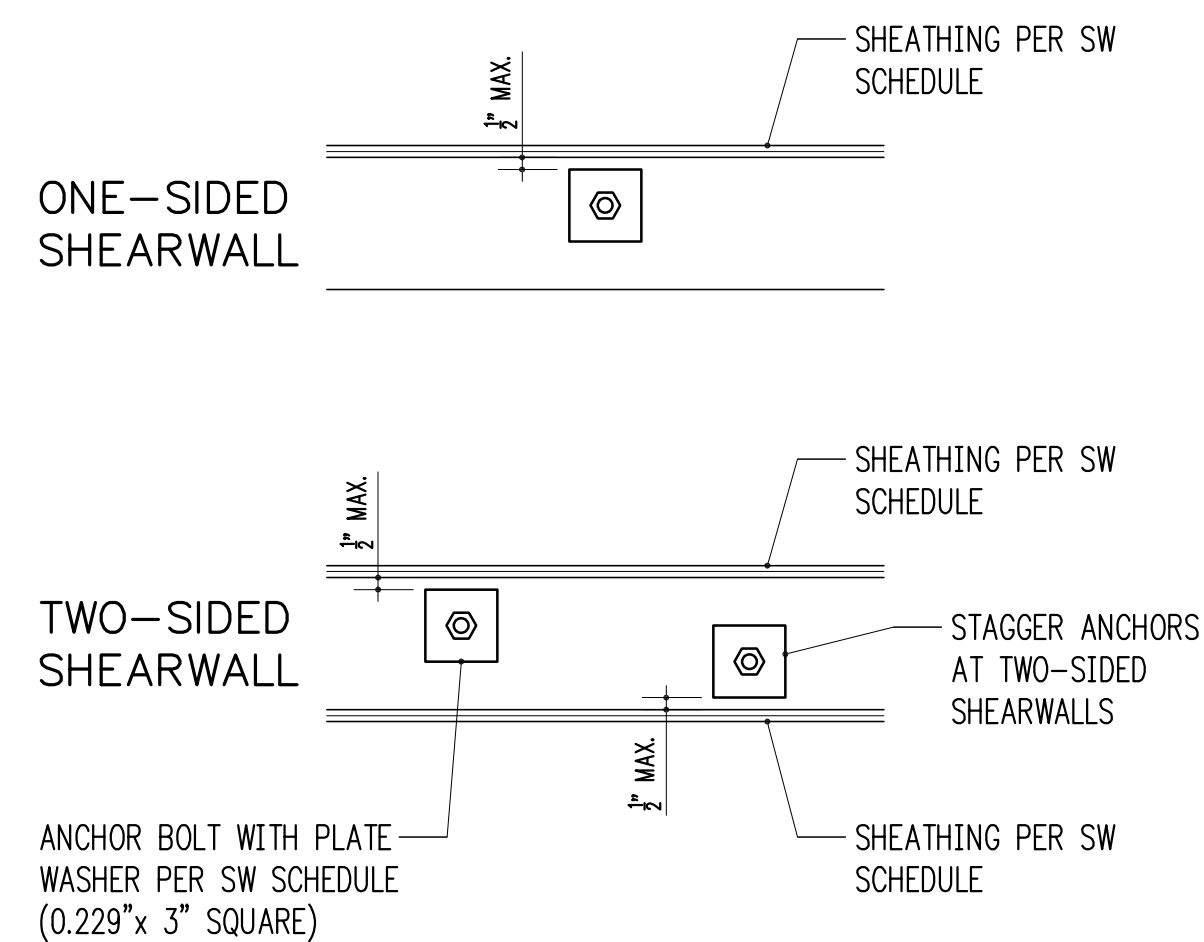
S3.2

WERELIUS RESIDENCE





TYPICAL STRAPPED HEADER
 $3/4" = 1'-0"$ 1



TYPICAL SHEARWALL ANCHOR BOLT PLACEMENT
 $1-1/2" = 1'-0"$ 2

SHEARWALL SCHEDULE (NOT ALL USED ON PLANS)

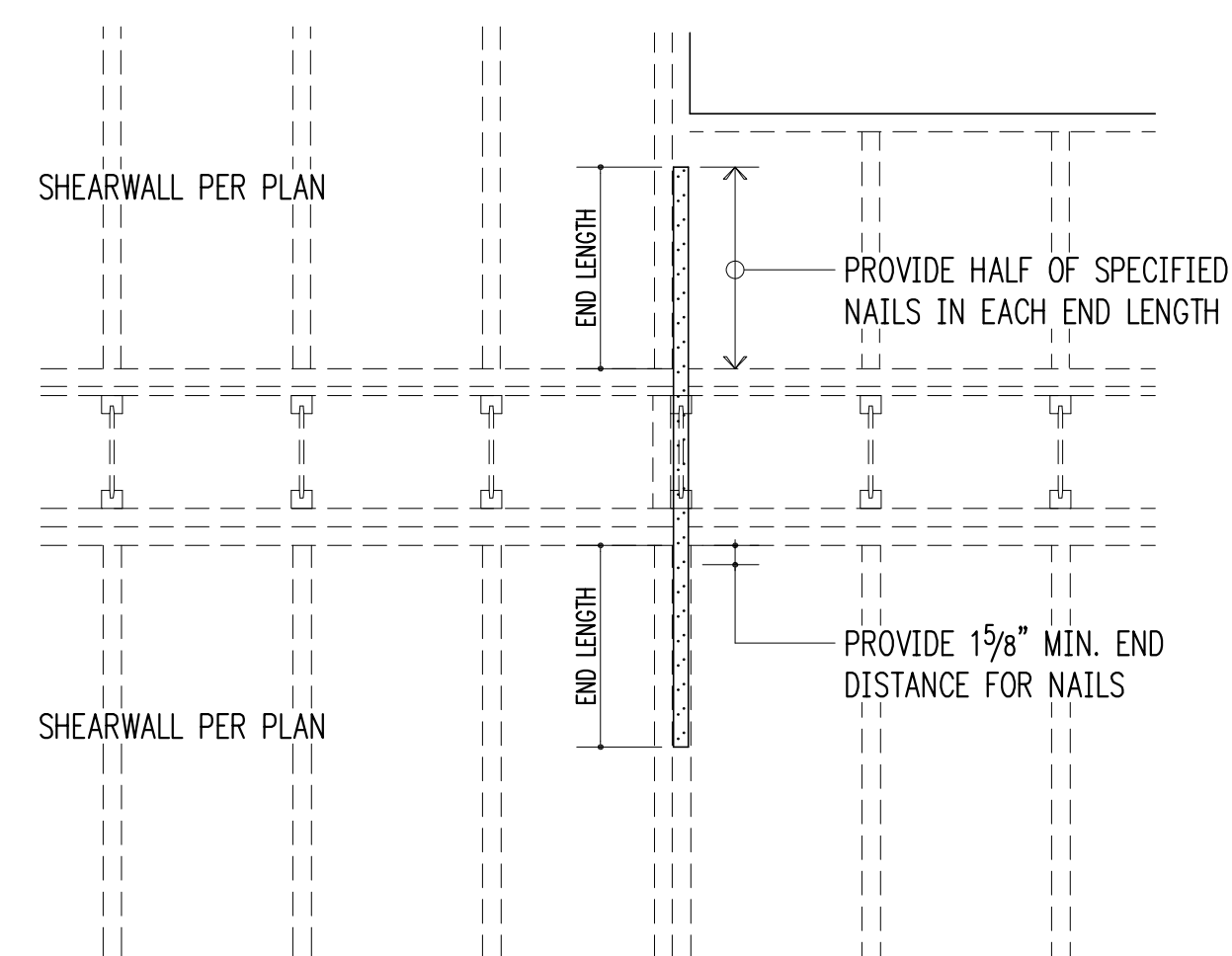
MARK	SHEATHING ¹	STUDS AT ABUTTING PANEL EDGES ²	PANEL EDGE NAILING ^{3,4}	RIM JOIST OR BLOCKING TO TOP PLATE		BOTTOM PLATE ATTACHMENT		
				SOLID RIM	TJI RIM	BOTTOM PLATE TO RIM JOIST BELOW ⁴	ANCHOR BOLT TO CONCRETE ⁵	SILL PLATE AT FOUND.
SW1	15/32" CDX PLYWOOD	2x	8d @ 6"oc	A35 @ 24"oc	16d @ 6"oc	16d @ 6"oc	5/8" @ 48"oc	2x
SW2	15/32" CDX PLYWOOD	2x	8d @ 4"oc	A35 @ 15"oc	16d @ 4"oc	16d @ 4"oc	5/8" @ 32"oc	2x
SW3	15/32" CDX PLYWOOD	3x	8d @ 3"oc	A35 @ 12"oc	N/A - USE SOLID RIM	16d @ 3"oc	5/8" @ 16"oc	2x
SW4	15/32" CDX PLYWOOD	3x	8d @ 2"oc	A35 @ 9"oc	N/A - USE SOLID RIM	16d @ 2"oc	5/8" @ 12"oc	2x
SW5	15/32" CDX PLYWOOD BOTH SIDES	3x	8d @ 3"oc	A35 @ 6"oc	N/A - USE SOLID RIM	(2) ROWS 16d @ 3"oc	5/8" @ 12"oc	3x
SW6	15/32" CDX PLYWOOD BOTH SIDES	3x	8d @ 2"oc	A35 @ 4 1/2"oc	N/A - USE SOLID RIM	(2) ROWS 16d @ 2"oc	5/8" @ 12"oc	3x

- WALL SHEATHING SHALL CONSIST OF APA RATED PLYWOOD WITH SPAN RATING 24/0. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF PANELS. 7/16" APA RATED SHEATHING (OSB) MAY BE USED IN PLACE OF 15/32" CDX.
- STUDS AT ABUTTING PANEL EDGES MAY CONSIST OF (2)2x STUDS IN PLACE OF 3x STUDS - NAIL (2)2x STUDS TOGETHER WITH BOTTOM PLATE ATTACHMENT NAILING.
- BLOCK ALL PANEL EDGES W/ 2x4 FLAT, ATTACH W/ PANEL EDGE NAILING. TWO STUDS MINIMUM ARE REQUIRED AT EACH END OF ALL SHEARWALLS. END STUDS SHALL RECEIVE PANEL EDGE NAILING. INTERMEDIATE STUDS SHALL BE 2x STUDS. NAIL SHEATHING TO INTERMEDIATE FRAMING MEMBERS WITH 8d @ 12"oc.
- 8d NAILS SHALL BE 0.131" DIAMETER x 2 1/2" (COMMON). 16d NAILS SHALL BE 0.135" DIAMETER x 3 1/2" (BOX).
- ANCHORS TO CONCRETE SHALL CONSIST OF CAST-IN-PLACE ANCHOR BOLTS, EXPANSION BOLTS, EPOXY GROUTED ALL-THREADS, OR TITEN HD HEAVY DUTY SCREW ANCHORS. CAST-IN-PLACE ANCHOR BOLTS HAVE A 7" EMBED AND SHALL BE J-BOLTS OR SHALL HAVE A HEX NUT AT THE BOTTOM END. EXPANSION BOLTS SHALL HAVE 5" EMBED AND SHALL NOT BE USED AT STEM WALL LOCATIONS WITH EDGE DISTANCE LESS THAN 5" (INSTEAD, USE EPOXY GROUTED ALL-THREADS OR TITEN HD ANCHORS). EPOXY GROUTED ANCHORS SHALL HAVE 5" EMBED AND 2 1/2" MIN. EDGE DISTANCE. TITEN HD ANCHORS SHALL HAVE 3 1/2" EMBED AND 1 3/4" MIN. EDGE DISTANCE. AT ALL ANCHOR BOLTS, PROVIDE STEEL PLATE WASHERS THAT ARE A MINIMUM OF 0.229" (3 GAUGE) x 3" x 3" (SIMPSON BP5/8-3 OR SIMILAR). PLACE BOLTS PER ANCHOR BOLT PLACEMENT DETAIL.

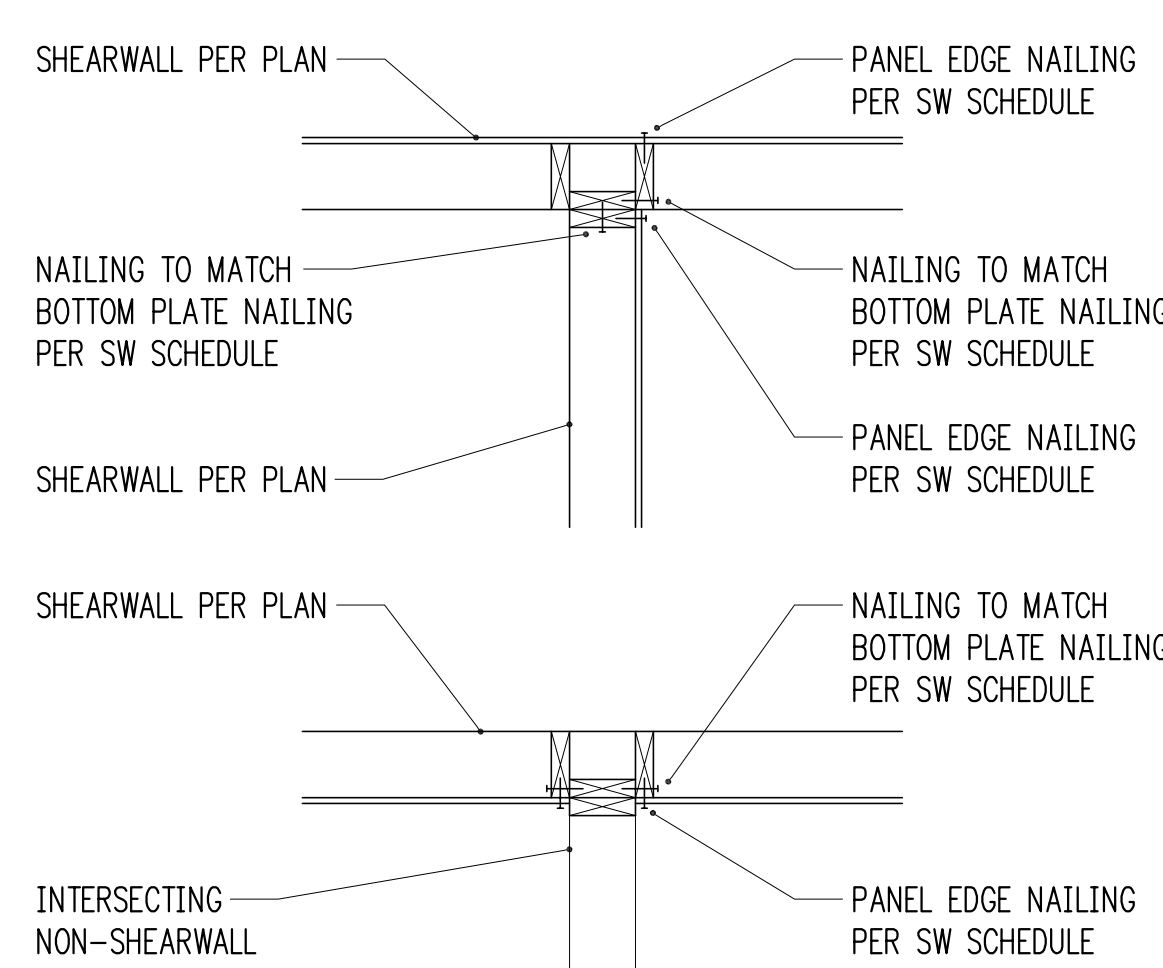
STRAP SCHEDULE (NOT ALL USED)

MARK	END LENGTH	NAILS	NAIL SPACING
CMST12	44"	(98) 10d x 3"	1 3/4"
CMST14	34"	(76) 10d x 3"	1 3/4"
CMSTC16	25"	(58) 12d x 3 1/4"	1 1/2"
CS14	19"	(36) 8d x 2 1/2"	2 1/16"
CS16	14"	(26) 8d x 2 1/2"	2 1/16"
CS18	12"	(22) 8d x 2 1/2"	2 1/16"
CS20	9"	(16) 8d x 2 1/2"	2 1/16"
CS22	8"	(14) 8d x 2 1/2"	2 1/16"

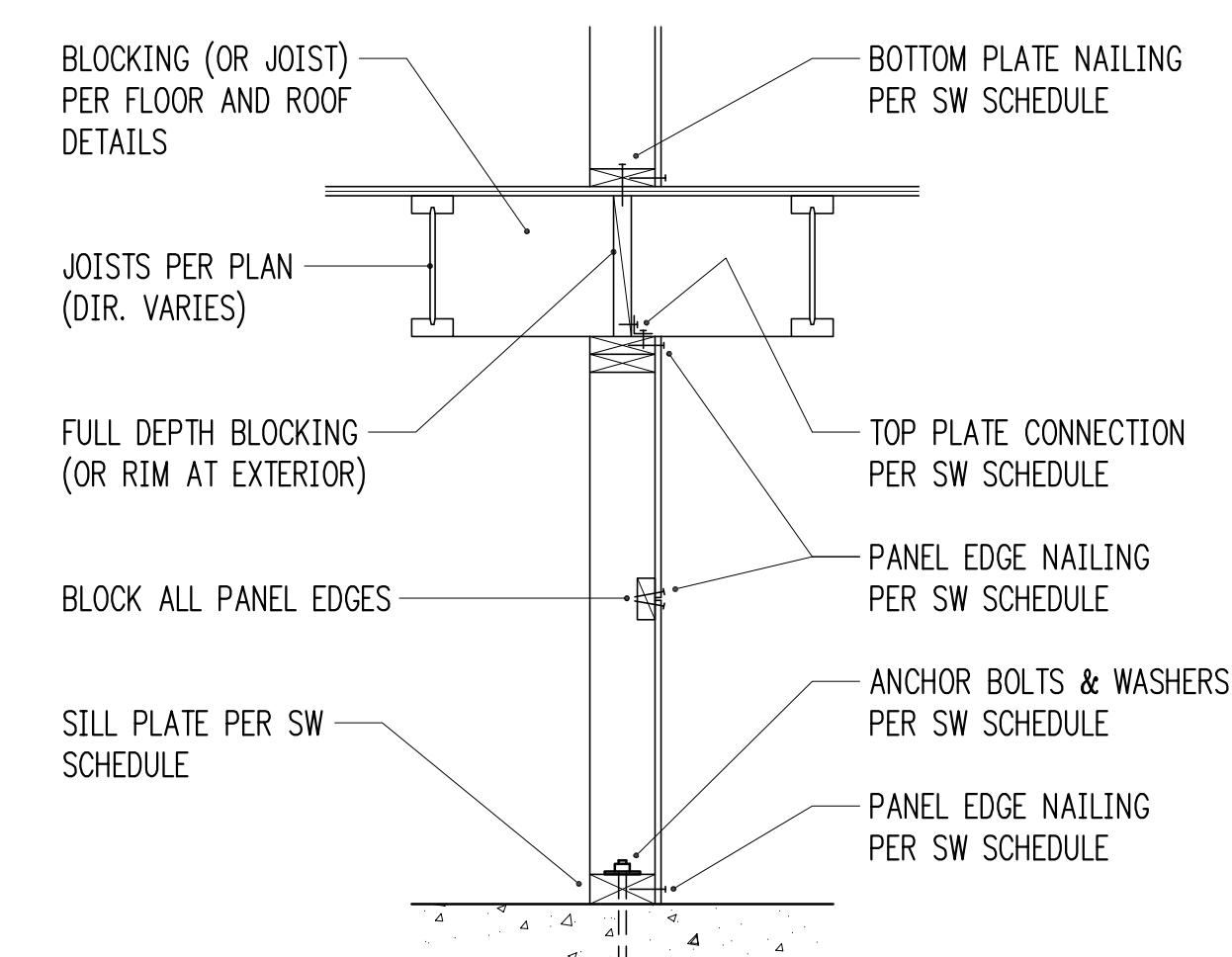
- 10d AND 12d DIAMETER = 0.148"; 8d DIAMETER = 0.131".
- USE HALF OF THE REQUIRED NAILS IN EACH MEMBER BEING CONNECTED (i.e. IN EACH END LENGTH).



TYPICAL STRAP HOLDDOWN AT FLOOR
 $3/4" = 1'-0"$ 6



TYPICAL SHEARWALL INTERSECTIONS

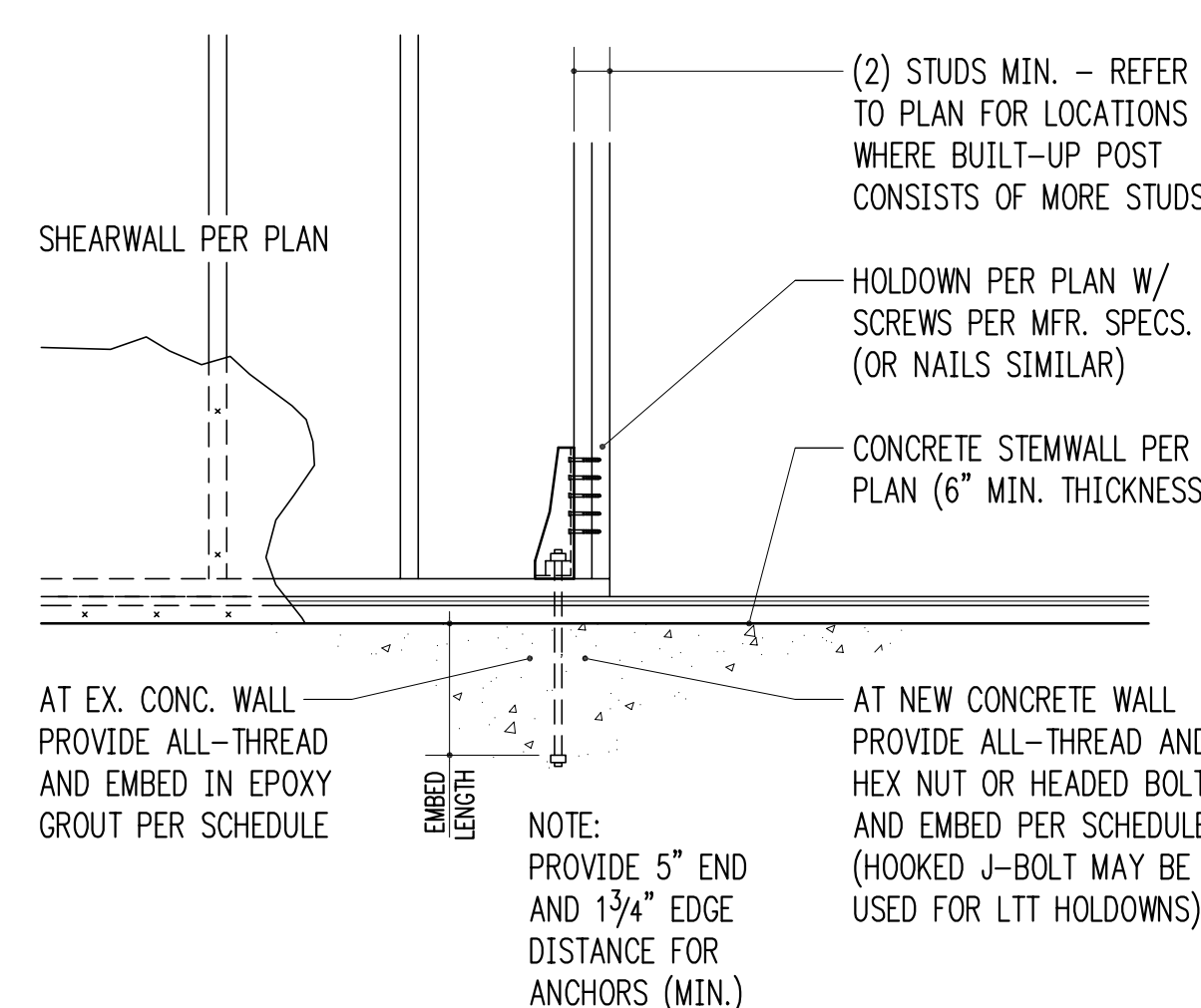


TYPICAL SHEARWALL SECTION
 $3/4" = 1'-0"$ 8

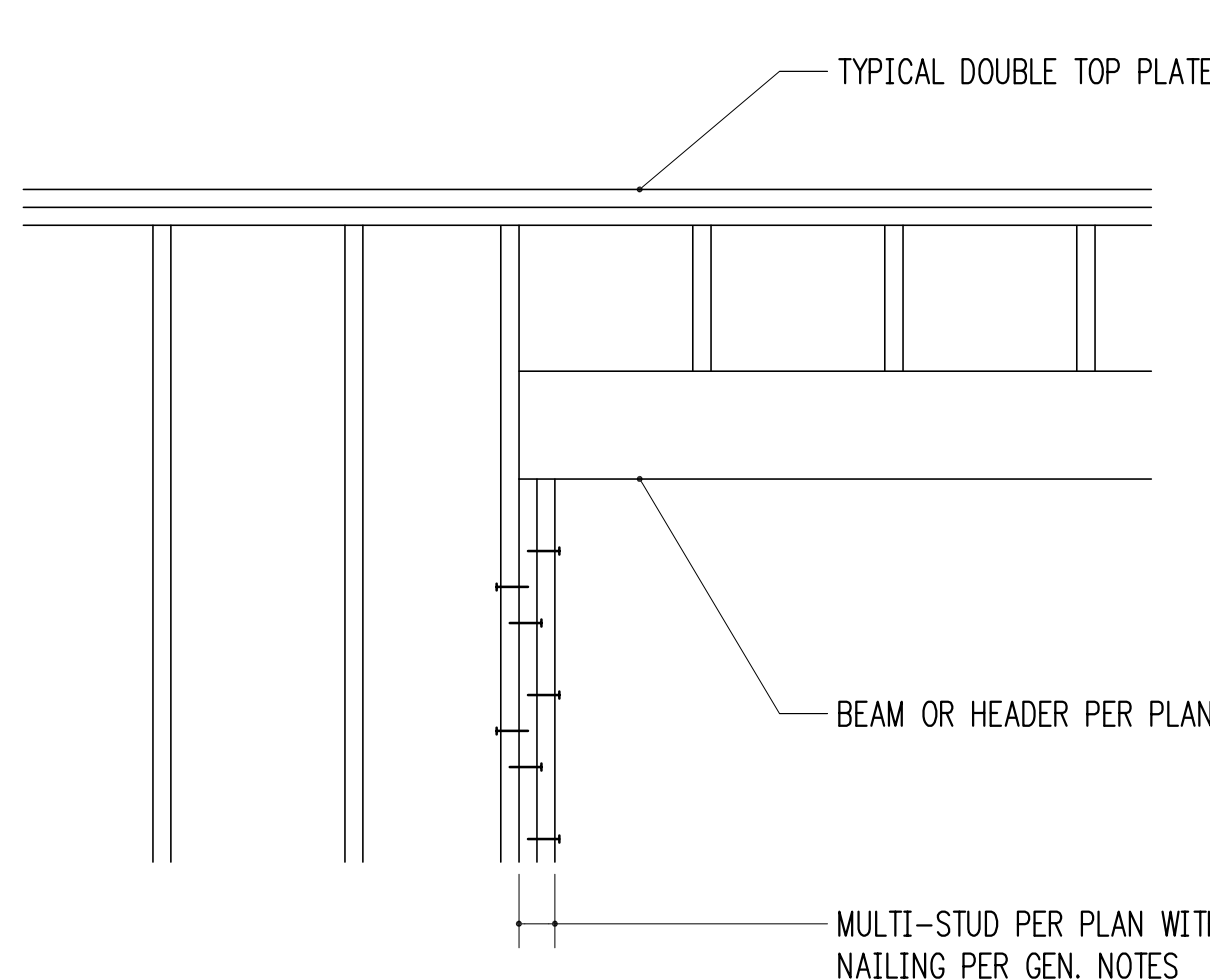
HOLDOWN SCHEDULE (NOT ALL USED ON PLANS)

MARK	FASTENERS TO STUDS ¹	ANCHOR DIA. ²	EMBEDMENT LENGTH		SSTB ⁵
			EPOXY ³	CAST-IN ⁴	
HDU2	(6) 1/4" @ x 2 1/2" SCREWS	5/8"	12"	11"	SSTB16
HDU4	(10) 1/4" @ x 2 1/2" SCREWS	5/8"	24"	24"	SSTB20
HDU5	(14) 1/4" @ x 2 1/2" SCREWS	5/8"	N/A	37"	SSTB24
HDU8	(20) 1/4" @ x 2 1/2" SCREWS	7/8"	N/A - SEE 12/S3.0 & 2/S3.1		
HDU11	(30) 1/4" @ x 2 1/2" SCREWS	1"	N/A - SEE 12/S3.0 & 2/S3.1		
HDU14	(36) 1/4" @ x 2 1/2" SCREWS	1"	N/A - SEE 12/S3.0 & 2/S3.1		

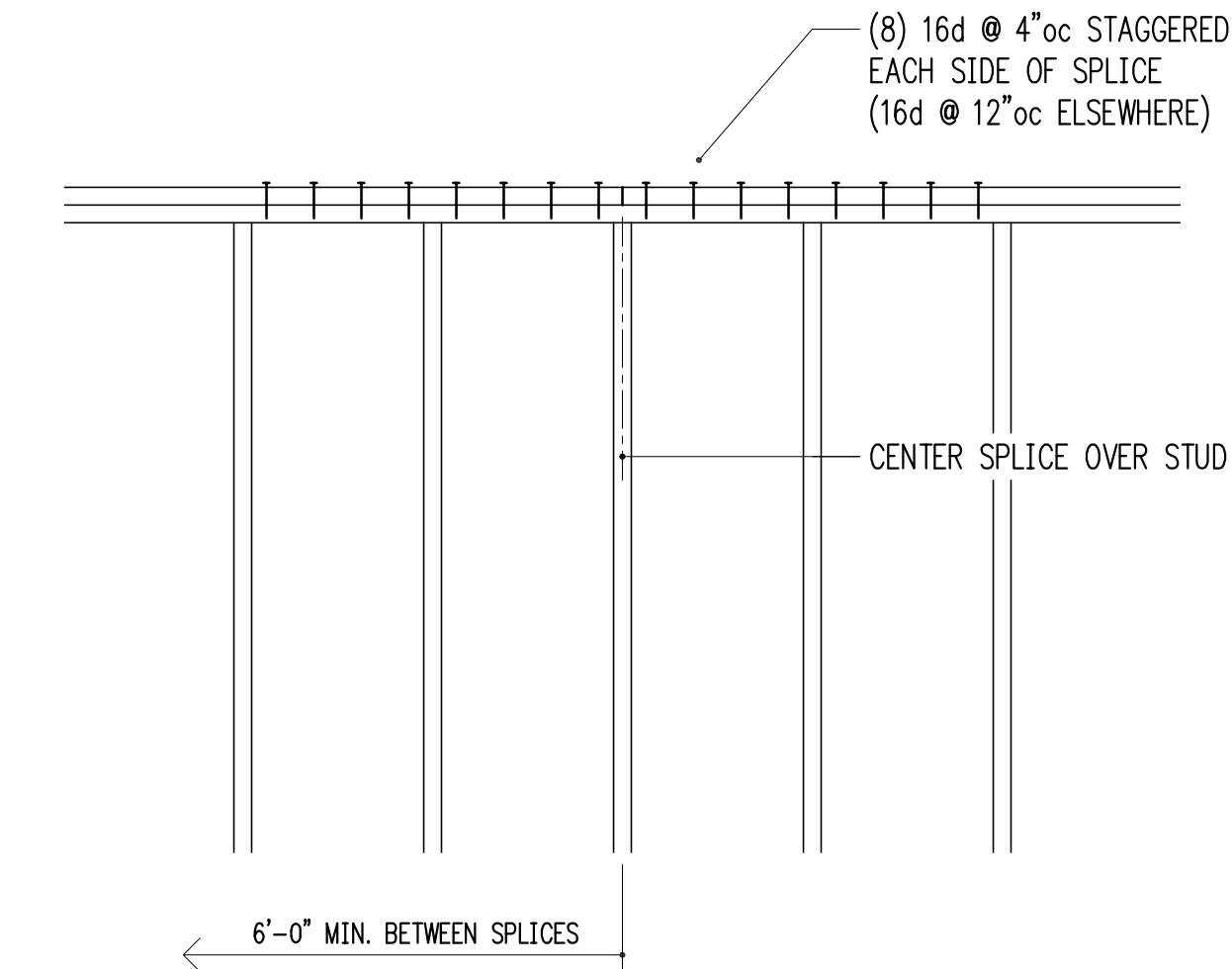
- 10d AND 12d DIAMETER = 0.148"; 16d DIAMETER = 0.162". SCREWS SHALL BE SIMPSON "SDS" TYPE SCREWS, INSTALL PER SIMPSON RECOMMENDATIONS.
- PROVIDE A36 OR A307 ALL-THREAD AT EPOXY AND CAST-IN ANCHORS.
- PROVIDE SIMPSON "SET-XP" EPOXY PER GENERAL STRUCTURAL NOTES. SPECIAL INSPECTION IS REQUIRED.
- AT CAST-IN ANCHORS PROVIDE HEAVY HEX NUT AT BOTTOM OF ALL-THREAD. HOOKED J-BOLT MAY BE USED FOR LTT HOLDDOWNS.
- AT 3x SILL PLATES, PROVIDE LONGER SSTB MODELS.



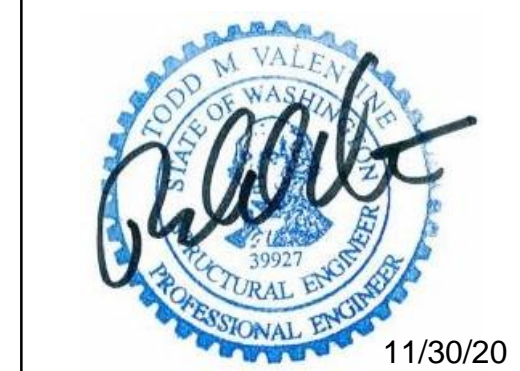
TYPICAL HOLDDOWN AT CONCRETE
 $3/4" = 1'-0"$ 10



TYPICAL MULTIPLE-STUD POST CONSTRUCTION
 $3/4" = 1'-0"$ 11



TYPICAL TOP PLATE SPLICE CONSTRUCTION
 $3/4" = 1'-0"$ 12



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10/14/20	Pin Pile Revision
11/13/20	Revisions
11/30/20	Revisions

Building Department Approval

Drawing Title
STRUCTURAL DETAILS

Drawing Number

S4.0

WERELIUS RESIDENCE