

LEE RESIDENCE

965 CREEKSIDE CROSSING
STILLWATER, MN 55082

SHEET INDEX	
SHEET NUMBER	SHEET NAME
A0.0	TITLE SHEET
A1.0	SITE, ROOF, & FOUNDATION PLANS
A1.1	LOWER LEVEL & FIRST LEVEL PLANS
A1.3	LOWER LEVEL & FIRST LEVEL STRUCTURAL PLANS
A2.0	ELEVATIONS
A3.0	CROSS SECTIONS
A4.0	SPECIFICATIONS
A5.0	3D VIEW FIRST LEVEL
A6.0	FRAMING DETAILS
A6.1	FRAMING DETAILS



An MSE Company
325 Alliance Place NE
Rochester, MN 55906
(507) 535-3530



REV. NO.	REVISION	DATE
1	CHANGES PER CONTRACTOR	3/12/2021
PROJECT NUMBER:		21-0057
DRAWN BY:		TODD K
REVIEWED BY:		VERONICA K
DATE:		3/09/2021
PRINT DATE:		3/15/2021
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CONSTRUCTION PLAN SET

PROJECT NAME:

LEE RESIDENCE

STILLWATER MN
SHEET NAME:

TITLE SHEET

SHEET NUMBER:

A0.0

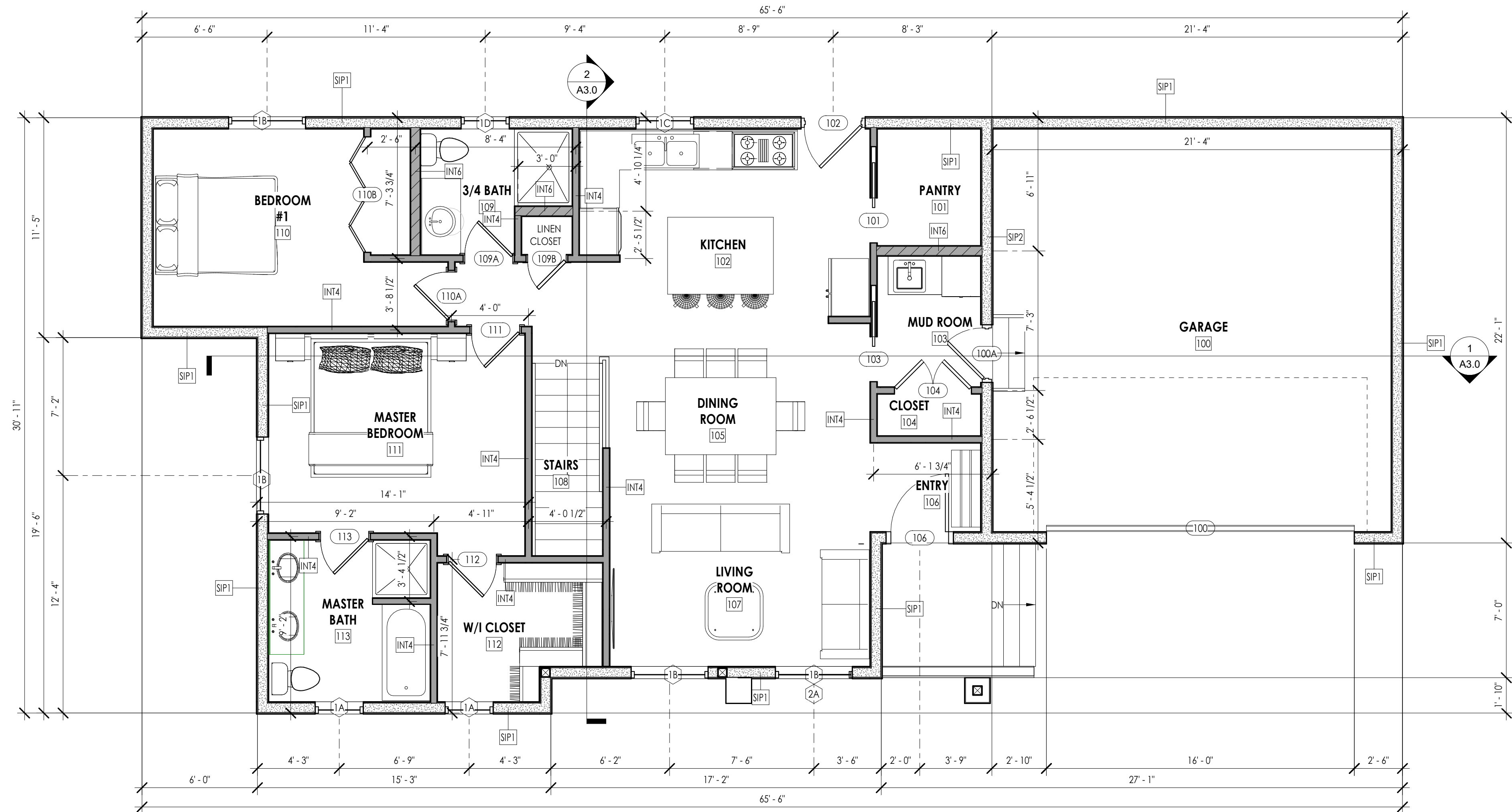
GROSS AREA SCHEDULE	
NAME	AREA
GARAGE	480 SF
LOWER LEVEL	1169 SF
MAIN LEVEL	1166 SF
	2816 SF

SITE LAYOUT IS ONLY FOR GENERAL PLACEMENT OF STRUCTURE. VERIFY LOCATION WITH OWNER/GENERAL CONTRACTOR.

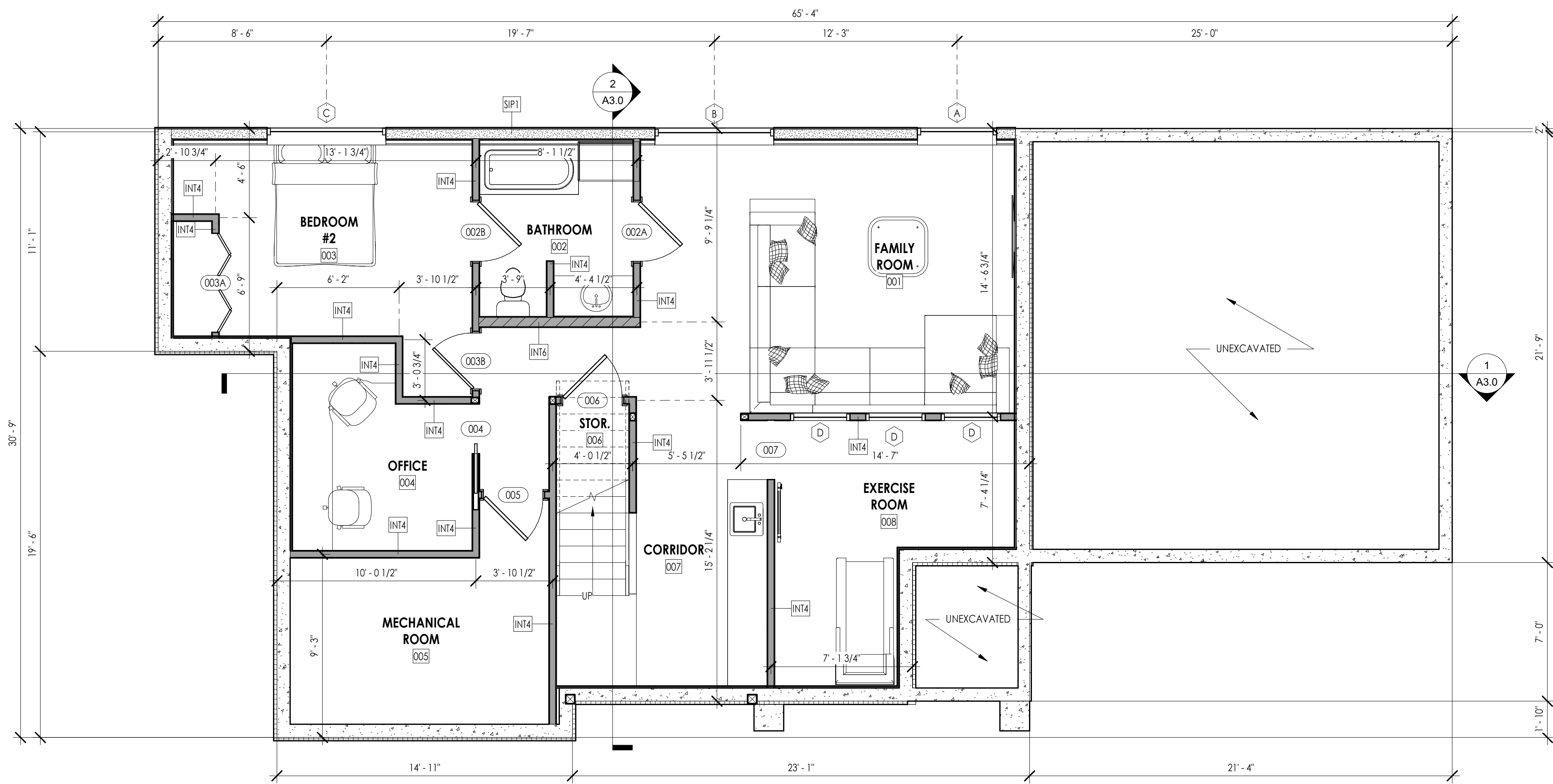


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1 FIRST LEVEL PLAN
1/4" = 1'-0"

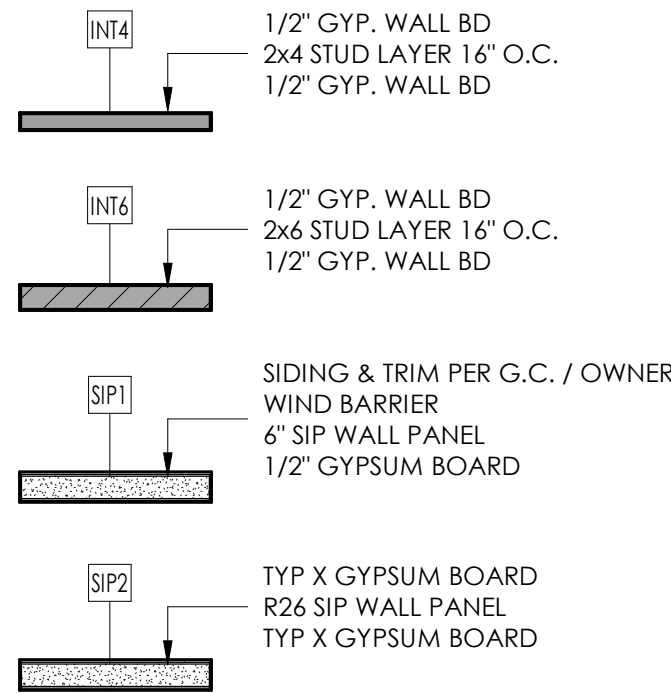


2 LOWER LEVEL PLAN
1/4" = 1'-0"

ROOM SCHEDULE			
NUMBER	ROOM NAME	AREA	PERIMETER
001	FAMILY ROOM	0 SF	Not Enclosed
002	BATHROOM	0 SF	Not Enclosed
003	BEDROOM #2	0 SF	Not Enclosed
004	OFFICE	83 SF	39' - 1"
005	MECHANICAL ROOM	120 SF	59' - 2 27/32"
006	STOR.	54 SF	35' - 11 3/32"
007	CORRIDOR	97 SF	41' - 11 13/32"
008	EXERCISE ROOM	121 SF	51' - 0"
100	GARAGE	433 SF	83' - 2 3/4"
101	PANTRY	33 SF	22' - 10 1/2"
102	KITCHEN	191 SF	75' - 0 1/4"
103	MUD ROOM	37 SF	24' - 4"
104	CLOSET	12 SF	15' - 1"
105	DINING ROOM	0 SF	Not Placed
106	DINING ROOM	114 SF	43' - 11 1/2"
107	LIVING ROOM	27 SF	20' - 4 7/32"
108	STAIRS	123 SF	45' - 2 1/2"
109	STAIRS	31 SF	24' - 8"
109	3/4 BATH	0 SF	Not Placed
109	3/4 BATH	44 SF	28' - 10"
110	BEDROOM #1	127 SF	51' - 11 1/2"
111	MASTER BEDROOM	143 SF	49' - 8 1/2"
112	W/I CLOSET	56 SF	31' - 7"
113	MASTER BATH	69 SF	39' - 7"

DOOR SCHEDULE				
MARK	WIDTH	HEIGHT	HEAD HEIGHT	COMMENTS
002A	3' - 0"	6' - 8"	6' - 8"	
002B	3' - 0"	6' - 8"	6' - 8"	
003A	5' - 0"	6' - 8"	6' - 8"	
003B	2' - 10"	6' - 8"	6' - 8"	
004	2' - 6"	6' - 8"	6' - 8"	
005	3' - 0"	6' - 8"	6' - 8"	
006	3' - 0"	6' - 8"	6' - 8"	
007	3' - 0"	6' - 8"	6' - 8"	
100	16' - 0"	8' - 0"	8' - 0"	
100A	2' - 8"	6' - 8"	6' - 8"	
101	2' - 4"	6' - 8"	6' - 8"	
102	3' - 0"	6' - 8"	6' - 8"	
103	2' - 4"	6' - 8"	6' - 8"	
104	4' - 0"	6' - 8"	6' - 8"	
106	3' - 0"	6' - 8"	6' - 8"	
109A	2' - 6"	6' - 8"	6' - 8"	
109B	2' - 0"	6' - 8"	6' - 8"	
110A	2' - 6"	6' - 8"	6' - 8"	
110B	6' - 0"	6' - 8"	6' - 8"	
111	2' - 6"	6' - 8"	6' - 8"	
112	2' - 6"	6' - 8"	6' - 8"	
113	2' - 6"	6' - 8"	6' - 8"	

WINDOW SCHEDULE					
MARK	COUNT	WIDTH	HEIGHT	HEAD HEIGHT	COMMENTS
A	1	4' - 0"	4' - 0"	6' - 10 1/2"	
B	1	6' - 0"	4' - 0"	6' - 10 1/2"	
C	1	6' - 0"	4' - 0"	6' - 10 1/2"	
D	3	3' - 0"	3' - 0"	6' - 10 1/2"	
1A	2	2' - 6"	5' - 0"	6' - 10 1/2"	
1B	4	4' - 0"	5' - 0"	6' - 10 1/2"	
1C	1	3' - 0"	4' - 0"	6' - 10 1/2"	
1D	1	2' - 6"	2' - 6"	6' - 10 1/2"	
2A	1	4' - 0"	4' - 0"	4' - 6"	TRAP WINDOW IN TRUSS FRAMING



3 TYPICAL WALL NOTES
1/4" = 1'-0"

11	WINDOW TAG
101	DOOR TAG
EXT1	WALL/FOOTING-TAG
P1	COLUMN/PIER TAG

PLAN NOTES:
DIMENSIONS AS SHOWN ARE TO EXTERIOR OF CONCRETE, SIPs PANEL (EXTERIOR WALLS), AND CENTERLINE OF ROUGH FRAMING (INTERIOR WALLS)
ALL DOOR & WINDOW SIZES ARE SHOWN AS NOMINAL MEASUREMENTS. CONTRACTOR SHALL VERIFY ALL ROUGH OPENING SIZES W/ DOOR & WINDOW MFG.
SEE DETAIL 3/A1.1 FOR TYPICAL WALL TYPE NOTES.

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SHEET NAME:

LOWER LEVEL & FIRST LEVEL PLANS

SHEET NUMBER:

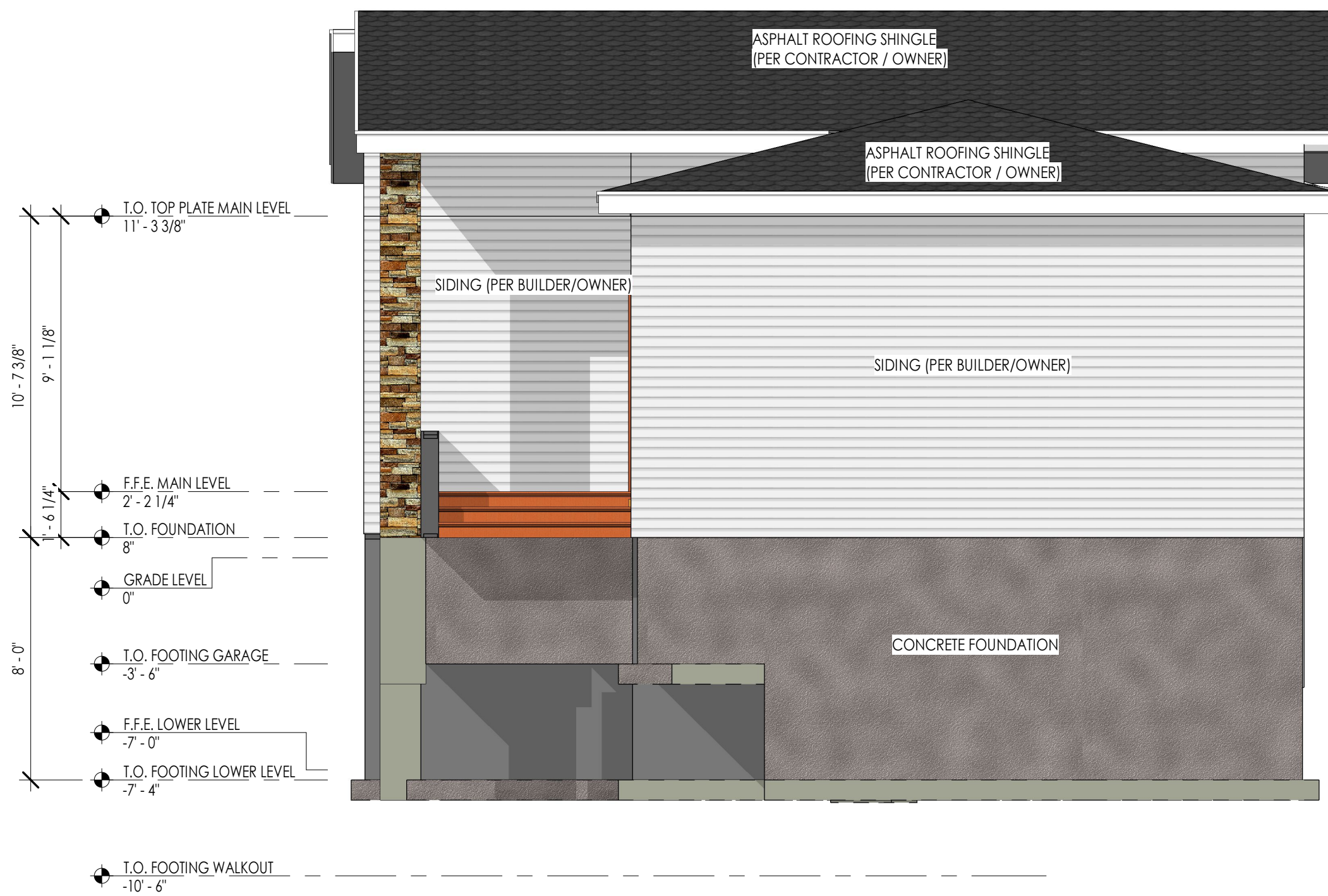
A1.1

ALL COLUMNS SHALL NOT REST ON SP OR SPF TOP PLATE OR BASE PLATE MATERIAL.



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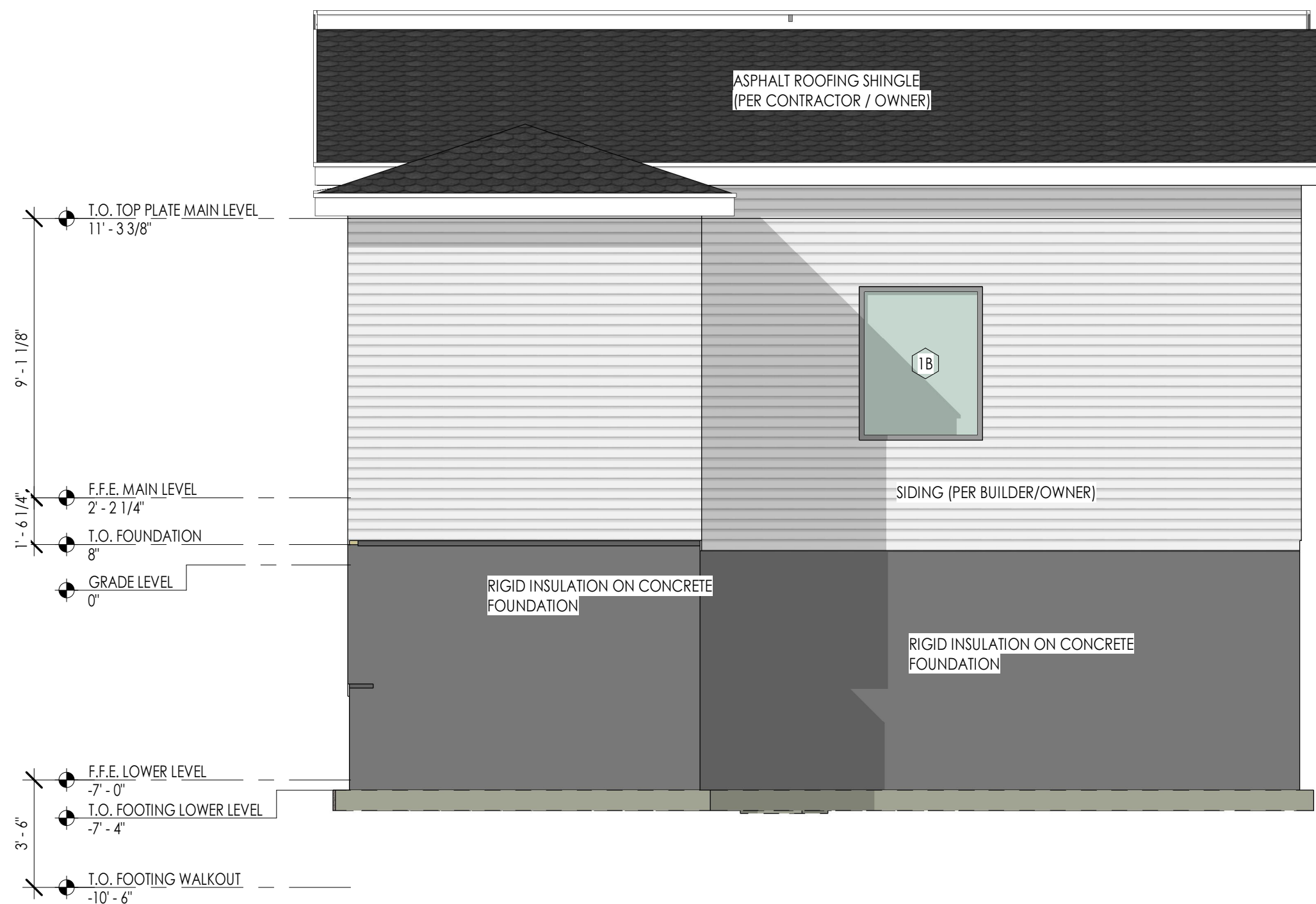
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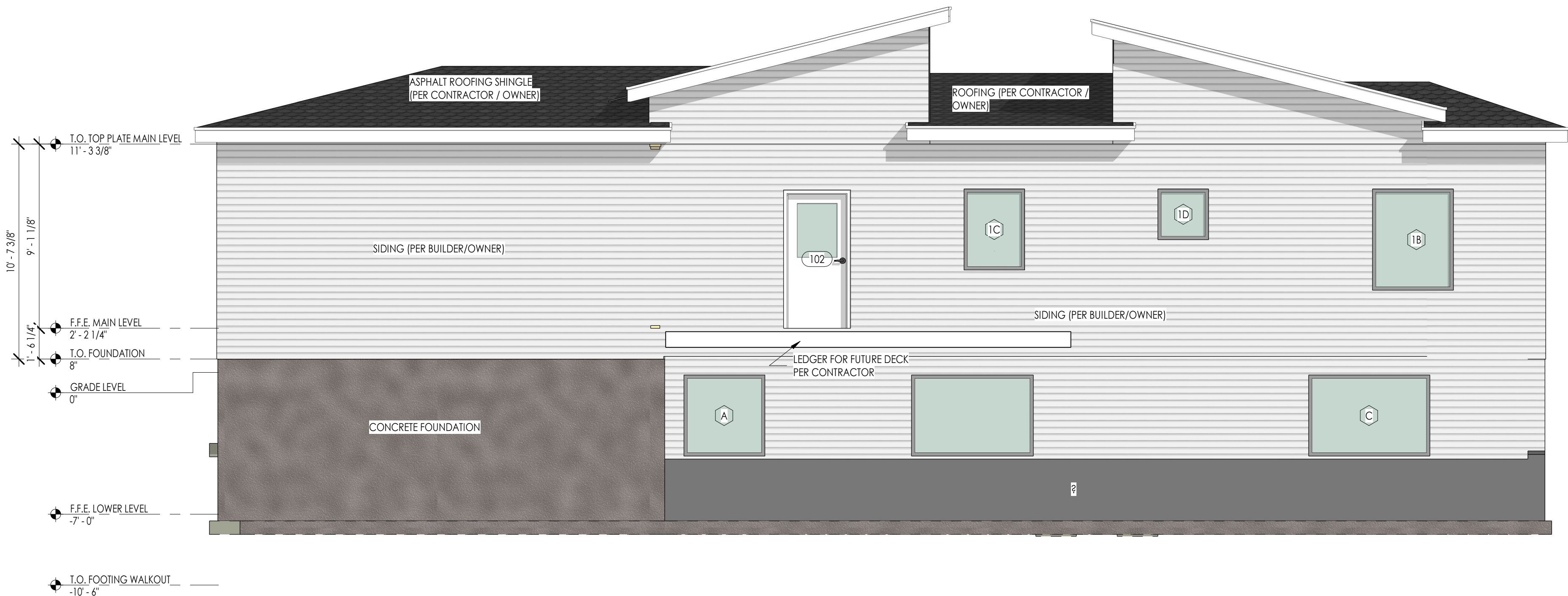
1 RIGHT ELEVATION
1/4" = 1'-0"



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



3 LEFT ELEVATION
1/4" = 1'-0"



4 BACK ELEVATION
1/4" = 1'-0"

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SHEET NAME:

ELEVATIONS

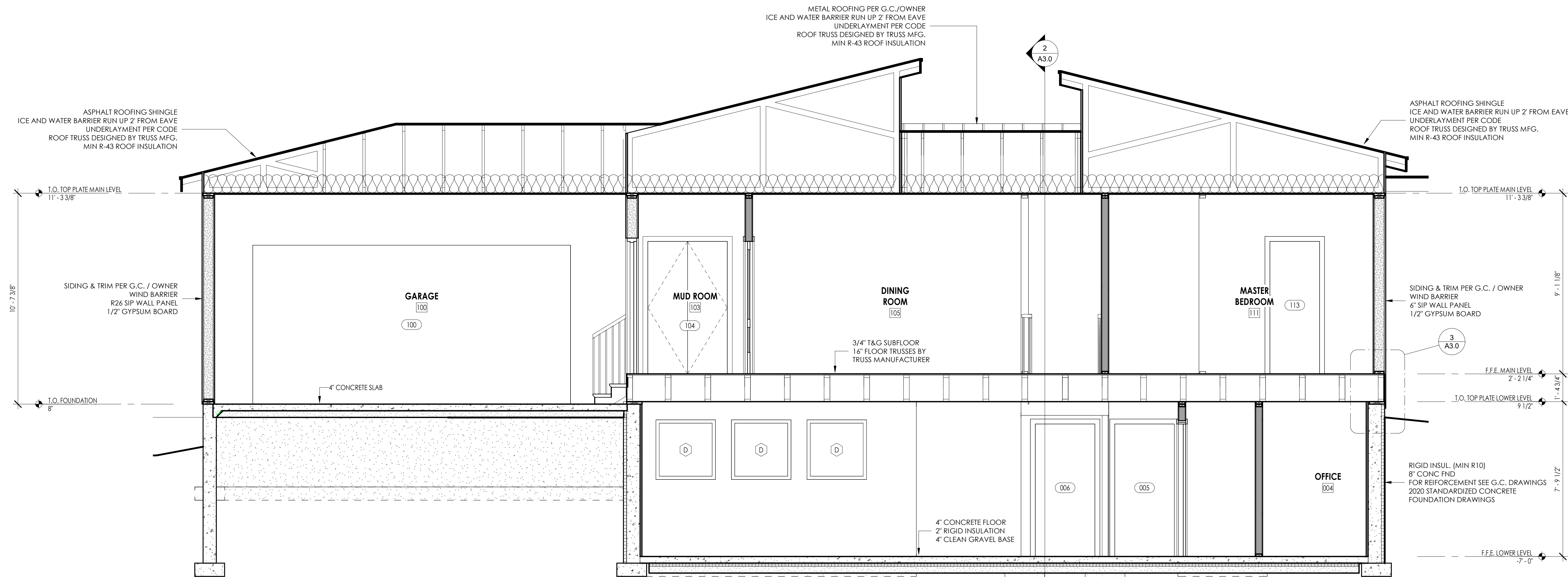
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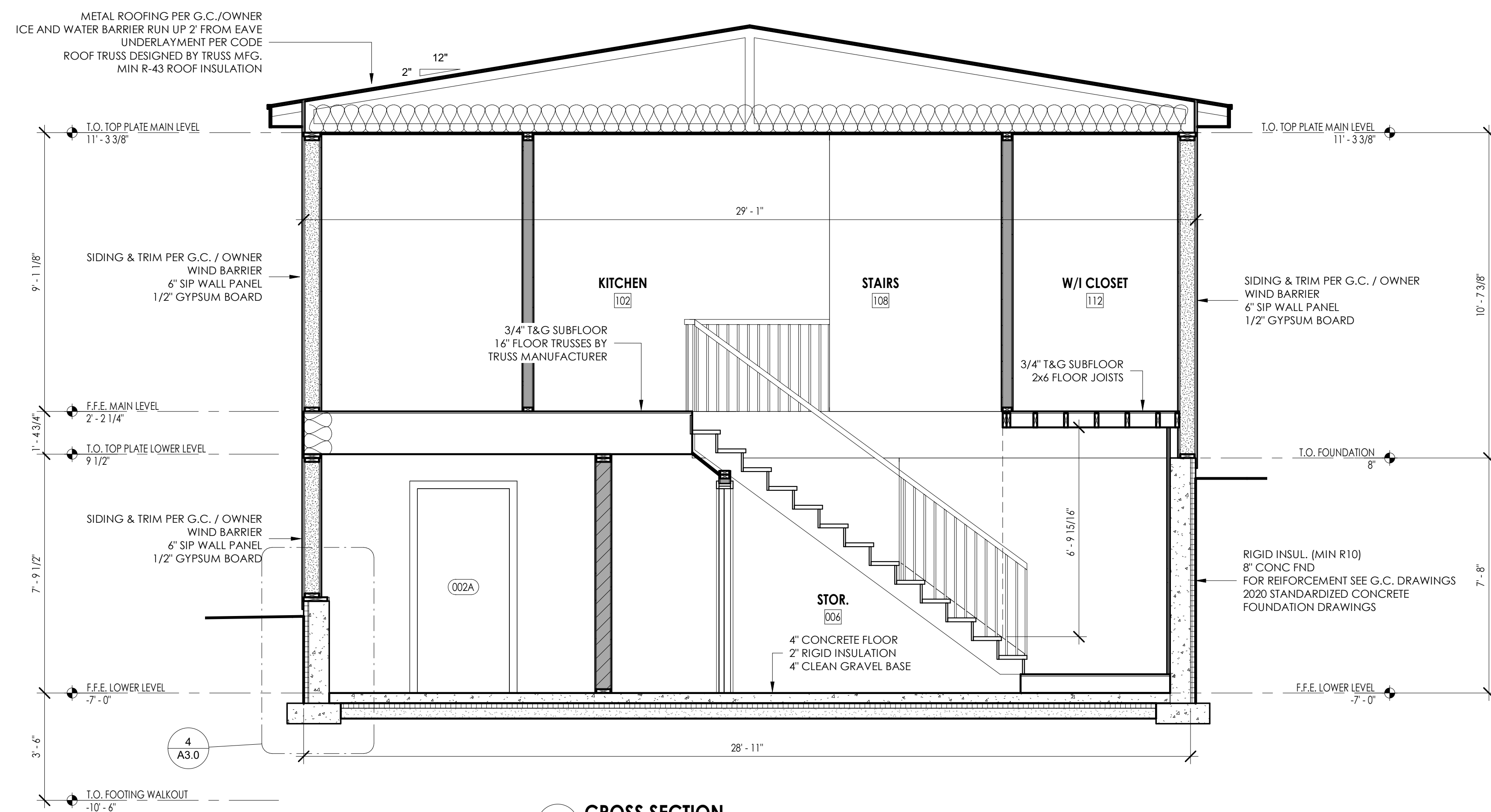


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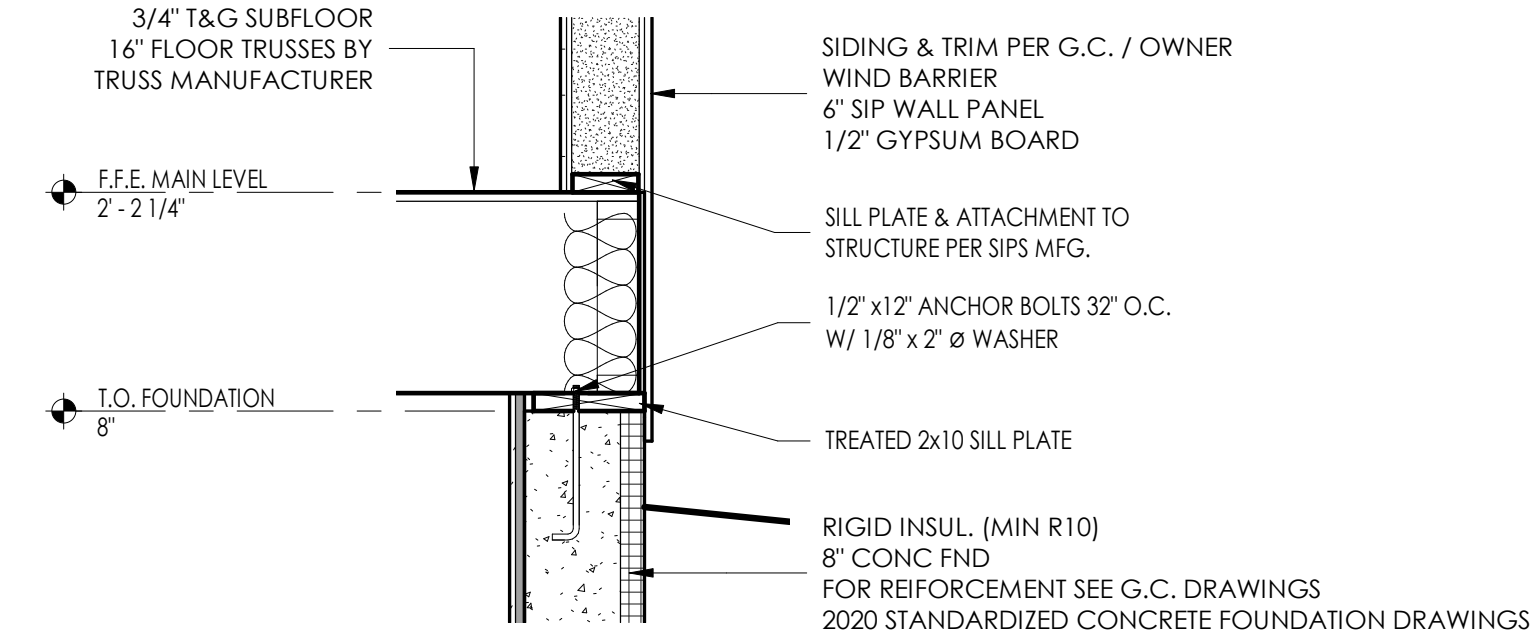
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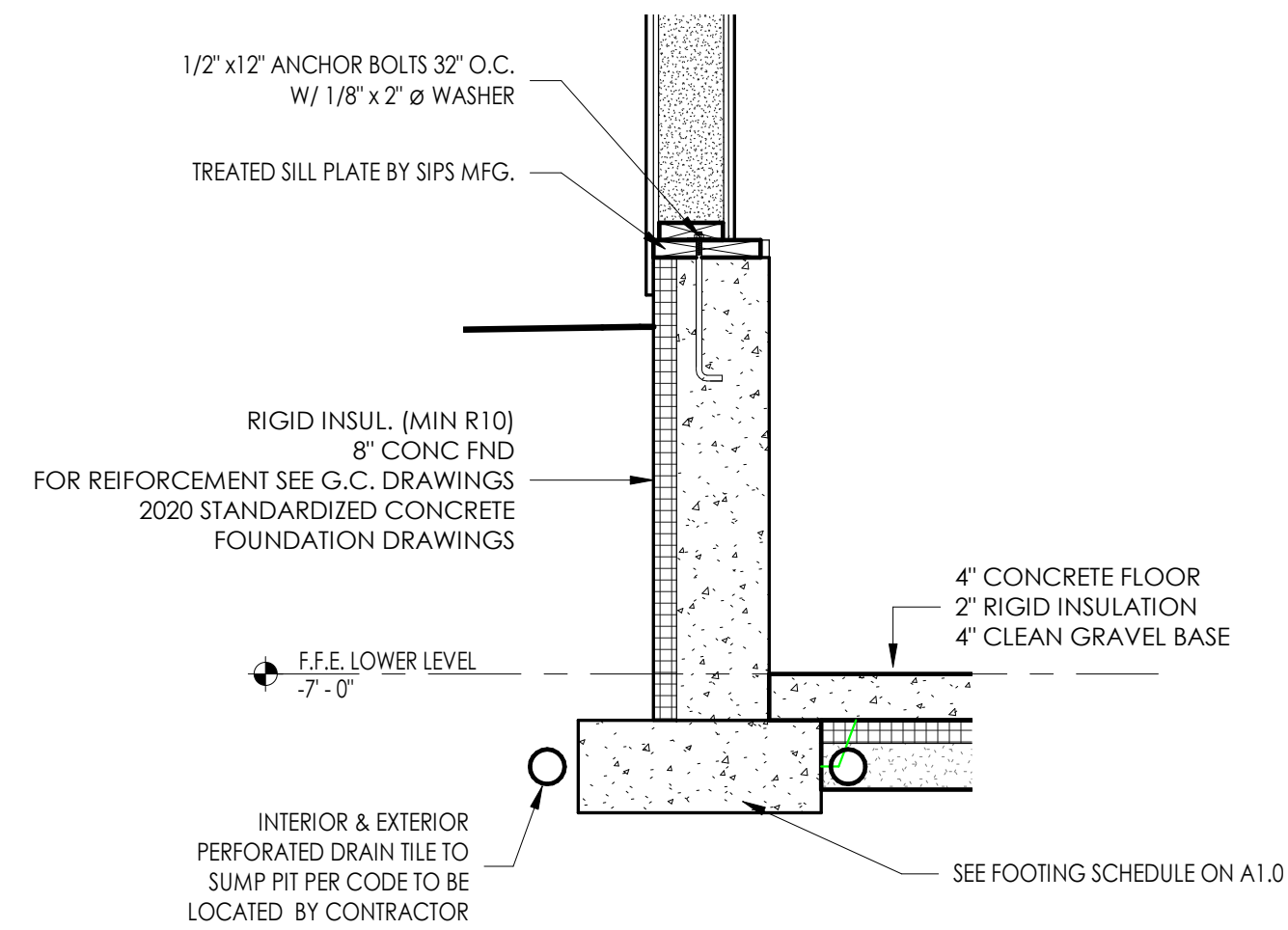
1 CROSS SECTION
3/8" = 1'-0"



2 CROSS SECTION
3/8" = 1'-0"



3 FOUNDATION DTL.
3/4" = 1'-0"



4 FOUNDATION DTL.
3/4" = 1'-0"

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SHEET NAME:

CROSS SECTIONS

SHEET NUMBER:
A3.0

PROJECT NOTES

1. DESIGN CRITERIA

1.1. CODES & MANUALS

1.1.1. INTERNATIONAL RESIDENTIAL CODE 2018 EDITION WITH STATE OF MN AMENDMENTS (IRC 2018)

1.1.2. MINNESOTA RESIDENTIAL CODE, 2020 EDITION

1.2. LOADS

1.2.1. WIND LOAD

1.2.1.1. BASIC WIND SPEED
V₁₀₃ = 108 MPH
WIND EXPOSURE: B
RISK CATEGORY: II

1.2.2. LIVE LOAD

1.2.2.1. FLOOR LOAD = 40 PSF

1.2.2.2. ROOF CONSTRUCTION LOAD = 20 PSF

1.2.3. SNOW LOAD

1.2.3.1. BALANCED SNOW LOAD
GROUND SNOW: P_g = 50 PSF
ROOF SNOW LOAD: P_s = 35 PSF

1.2.3.2. UNBALANCED SNOW LOAD
SEE ROOF LOADING PLAN IF APPLICABLE

1.2.4. DEAD LOAD

1.2.4.1. ROOF LOAD = 20 PSF (TC = 10 PSF / BC = 10 PSF)
LL DEFLECTION LIMITS = L/360
TL DEFLECTION LIMITS = L/240

1.2.4.2. FLOOR LOAD = 20 PSF (TC = 10 PSF / BC = 10 PSF)
LL DEFLECTION LIMITS = L/480
TL DEFLECTION LIMITS = L/240
2. GENERAL CONSTRUCTION

2.1. ALL WORK TO BE DONE IN COMPLIANCE WITH APPLICABLE CODES AND ORDINANCES, CONTACTOR TO OBTAIN ALL REQUIRED PERMITS AND APPROVALS.

2.2. ALL BUILDING COMPONENTS SHALL BE INSTALLED AS PER MANUFACTURER SPECIFICATIONS & ALL WARRANTY REQUIREMENTS SHALL BE FOLLOWED.

2.3. THE CONTRACTOR SHALL VERIFY ALL CONTRACT DOCUMENTS, SITE ELEVATIONS, DIMENSIONS AND CONDITIONS PRIOR TO STARTING WORK AND SHALL NOTIFY THE DESIGNER/ARCHITECT/ENGINEER OF ANY DISCREPANCIES.

2.4. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES.

2.5. TEMPORARY BRACING, SHORING AND DEWATERING TO BE THE RESPONSIBILITY OF CONTRACTOR.

2.5. NO PENETRATIONS TO BE PLACED WITHIN STRUCTURAL MEMBERS PRIOR TO APPROVAL OF THE COMPONENT MANUFACTURER OR STRUCTURAL ENGINEER.

2.6. THE STRUCTURE SHALL NOT BE LOADED WITH CONSTRUCTION MATERIALS OR EQUIPMENT THAT EXCEEDS FINAL DESIGN LOADING.
3. COMPONENT SHOP DRAWINGS

3.1. SHOP DRAWINGS SHALL INCLUDE COMPLETE DETAIL SCHEDULES, PROCEDURES AND DIAGRAMS FOR THE FABRICATION AND ASSEMBLY OF STRUCTURAL MEMBERS.

3.2. ERECTION PLANS ARE THE RESPONSIBILITY OF THE FABRICATOR.
4. FOUNDATIONS

4.1. FOUNDATION ARE BASED ON THE PRESUMPTIVE ALLOWABLE SOIL BEARING PRESSURE OF 1,500 PSF. CONTRACTOR SHALL VERIFY FOUNDATION ALLOWABLE BEARING CAPACITY.

4.2. FOOTINGS SHALL BE SUPPORTED ON UNDISTURBED NATURAL SOILS OR ENGINEERED FILL BELOW OR AT MINIMUM DESIGN FROST LEVEL.

4.3. MINIMUM DESIGN FROST LEVEL BELOW FINISHED GRADE SHALL BE 42" (HEATED STRUCTURES) OR 60" (UNHEATED STRUCTURES).

4.4. FOOTINGS AND FOUNDATION SHALL NOT BE EARTH FORMED.

4.5. FOOTING AND FOUNDATION EXCAVATIONS SHALL BE FREE OF DELETERIOUS MATERIAL AND WATER PRIOR TO PLACING CONCRETE.

4.6. BACKFILL SHALL BE COMPACTED BY MECHANICAL MEANS.

4.7. PROTECT FOUNDATIONS EXCAVATIONS FROM FROST. DO NOT PLACE CONCRETE ON FROZEN GROUND.

4.8. MINIMUM OF 4" COMPACTED GRANULAR SUBGRADE BELOW SLABS.

4.9. BACKFILL SHALL NOT BE PLACED UNTIL CONCRETE DEMONSTRATES 75% DESIGN COMPRESSIVE STRENGTH.

4.10. BACKFILL SHALL BE PLACED IN ALTERNATING LIFTS ON EACH SIDE OF THE FOUNDATION WALLS (WHERE APPLICABLE) TO MAINTAIN STABILITY OF FOUNDATION.
5. CONCRETE

5.1. CONCRETE CONSTRUCTION SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE (ACI) CODES AND SPECIFICATIONS, LATEST EDITION.

5.2. CONCRETE MIX DESIGNS SHALL BE BY AN INDEPENDENT TESTING LABORATORY (IF REQUIRED).

5.3. MINIMUM CONCRETE STRENGTH f_c @ 28 DAYS (NORMAL WIEGHT CONCRETE)

5.3.1. BASEMENT WALLS, FOUNDATIONS AND OTHER CONCRETE NOT ECPOSED TO THE WEATHER = 2,500 PSI

5.3.2. BASEMENT SLABS AND INTERIOR SLABS ON GRADE (EXCLUDING GARAGE FLOORS) = 2,500 PSI

5.3.3. BASEMENT WALLS, FOUNDATION WALLS, EXTERIOR WALLS AND OTHER VERTICAL CONCRETE WORK EXPOSED TO WEATHER = 3,000 PSI

5.3.3.1. CONCRETE SHALL BE AIR-ENTRAINED WITH A TOTAL AIR CONTENT OF 5% - 7%.

5.3.4. PORCHES, CARPORT SLABS AND STEPS EXPOSED TO THE WEATHER , AND GARAGE FLOOR SLABS = 3,500 PSI

5.3.4.1. CONCRETE SHALL BE AIR-ENTRAINED WITH A TOTAL AIR CONTENT OF 5% - 7%.

5.3.4.2. SEE IRC FOR MAX. CEMENTITIOUS MATERIAL CONTENT.

5.3.4.3. FOR STEEL TROWELED FINISHED GARAGE FLOORS WITH F_c = 4,000 PSI, TOTAL AIR CONTENT MAYBE REDUCED TO NOT LESS THAN 3%.

5.4. MAXIMUM WATER / CEMENT RATIO = 0.55

5.5. MINIMUM CONCRETE REINFORCEMENT COVER

5.5.1. ALL MEMEBERS CAST AGAINST AND PERMINENTLY IN CONTACT WITH GROUND = 3"

5.5.2. ALL MEMBERS EXPOSED TO WEATHER OR IN CONTACT WITH GROUND = 2"

5.5.3. SLABS AND WALLS NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND = 3/4"

5.5.4. BEAMS, COLUMNS, AND PEDESTALS NOT EXPOSED TO WEATHER OR IIN CONTACT WITH GROUND = 1-1/2"

- 5.6. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).
- 5.7. ALL CONCRETE REINFORCEMENT STEEL SHALL MEET ASTM SPECIFICATIONS A615, GRADE 60.
- 5.8. PROVIDE ADEQUATE SUPPORT BARS AND ACCESSORIES TO HOLD REINFORCEMENT BARS FIRMLY IN PLACE TO SPECIFIED COVERS.

6. MANUFACTURED WOOD TRUSSES

6.1. WOOD TRUSS DESIGN SHALL BE DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF IBC WOOD SECTION 2303.4.

6.2. LOCATIONS FOR LATERAL RESTRAINT SHALL BE IDENTIFIED ON THE TRUSS DRAWINGS.

6.3. TRUSS BRIDGING, BRACING, AND/OR BLOCKING PER TRUSS MANUFACTURER.

6.4. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL. SUCH DRAWINGS SHALL SHOW ERECTION PLANS, BEARING CONDITIONS AND CONNECTIONS FOR THE WOOD TRUSSES. CERTIFICATION BY A PROFESSIONAL ENGINEER SHALL BE REQUIRED FOR ALL INSTANCES (IF APPLICABLE).

6.5. DRAFT STOPS SHALL BE INSTALLED WHERE SPACE ABOVE AND BELOW THE CONCEALED SPACE OF A FLOOR-CEILING ASSEMBLY. SPACE SHALL NOT EXCEED 1,000 SQ. FT. AND THE SPACE SHALL BE DIVIDED IN APPROXIMATE EQUALLY SPACES.

7. WOOD

7.1. LAMINATED VENEER LUMBER (LVL) PROPERTIES, MINIMUM

7.1.1. E = 2,00,000 PSI

7.1.2. F_b = 2,400 PSI

7.1.3. F_v = 285 PSI

7.1.4. SEE MANUFACTURERS SPECIFICATIONS FOR MULTIPLY PLY MEMBERS.

7.2. PARALLEL STRAND LUMBER (PSL) PROPERTIES, MINIMUM

7.2.1. E = 2,000,000 PSI (BEAMS) & 1,800,000 PSI (COLUMNS)

7.2.2. F_b = 2,900 PSI (BEAMS) & 2,400 PSI (COLUMNS)

7.2.3. F_v = 290 PSI (BEAMS) & 190 PSI (COLUMNS)

7.2.4. SEE MANUFACTURERS SPECIFICATIONS FOR MULTIPLY PLY MEMBERS.

7.3. LAMINATED STRAND LUMBER (LSL) PROPERTIES, MINIMUM

7.3.1. E = 1,300,000 PSI

7.3.2. F_b = 1,700 PSI

7.3.3. F_v = 425 PSI

7.3.4. SEE MANUFACTURERS SPECIFICATIONS FOR MULTIPLY PLY MEMBERS.

7.4. DIMENSIONAL LUMBER

7.4.1. NON-TREATED LUMBER SHALL BE SPF #2 OR BETTER.

7.4.2. TREATED LUMBER SHALL BE SYP#2 OR BETTER (PRESERVATIVE TREATED WOOD).

7.5. WOOD SHEATHING

7.5.1. SHEATHING PANELS SHALL BE IDENTIFIED WITH THE GRADE TRADE-MARK OF THE APA-ENGINEERED WOOD ASSOCIATION AND SHALL MEET THE REQUIREMENTS OF THE PRODUCT STANDARD.

7.5.2. APPLICATION AND NAILING OF STRUCTURAL PANELS SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE APA - ENGINEERED WOOD ASSOCIATION UNLESS REQUIREMENTS NOTED ON THESE DRAWINGS ARE MORE RESTRICTIVE.

7.5.3. SHEATHING TYPE & GRADE

7.2.3.1. EXTERIOR WALL SHEATHING = 24/16 APA EXP. I RATED SHEATHING

7.2.3.2. FLOOR SHEATHING = 24/16 APA EXP. I RATED SHEATHING

7.2.3.3. ROOF SHEATHING = 32/16 APA EXP. I RATED SHEATHING

7.5.4. FLOOR & ROOF PANELS SHALL BE ORIENTED WITH THE FACE GRAIN PERPENDICULAR TO THE TRUSS SUPPORTS AND PANEL JOINTS SHALL BE STAGGERED.

7.5.5. ALL EXTERIOR WALL SHEATHING SHALL BE COVERED WITH APPROVED WEATHER RESISTIVE BARRIER COMPLYING WITH ASTM D226 TYPE 1.

7.6. CUTTING, NOTCHING, OR DRILLING OF BEAMS OR JOISTS SHALL BE PERMITTED ONLY AS DETAILED OR APPROVED BY AN ENGINEER.

7.7. ALL NAILING SHALL CONFORM TO THE NAILING SCHEDULE LOCATED IN THE IRC TABLE R602.3, U.N.O.

7.8. SILL PLATES SHALL BE BOLTED TO FOUNDATION WALLS w/ 1/2" Ø HOT DIPPED GALVANIZED ANCHOR BOLTS @ 32" O.C. BOLTS SHALL EXTEND A MINIMUM OF 10" INTO FOUNDATION. EACH SILL PLATE TO HAVE A MINIMUM OF TWO BOLTS WITH ONE BOLT LOCATED WITHIN 12" OF EACH END OF EACH PIECE.

7.9. PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM AT CONCENTRATED BEARING LOADS.

7.10. DOUBLE ALL FLOOR JOIST UNDER PARALLEL PARTITIONS.

7.11. ALL METAL CONNECTORS SHALL BE SIMPSON STRONG-TIE OR EQUIVALENT AS SPECIFIED BY TRUSS MANUFACTURER.

7.12. ALL BEAMS & JOISTS NOT BEARING ON SUPPORTING MEMBERS SHALL BE FRAMED WITH PREFABRICATED HANGERS APPROPRIATE FOR BOTH THE SUPPORTED AND SUPPORTING MEMBER.

7.13. WOOD JOISTS SHALL BEAR ON THE FULL WIDTH OF SUPPORTING MEMBERS, STUD WALLS, BEAMS, ETC. (U.N.O.).

8. PASSIVE RADON

8.1. PASSIVE RADON - RESISTANT SYSTEMS SHALL BE INSTALLED DURING CONSTRUCTION.

8.2. SEE IRC APPENDIX F FOR SUBGRADE PREPARATION & INSTALLATION REQUIREMENTS.



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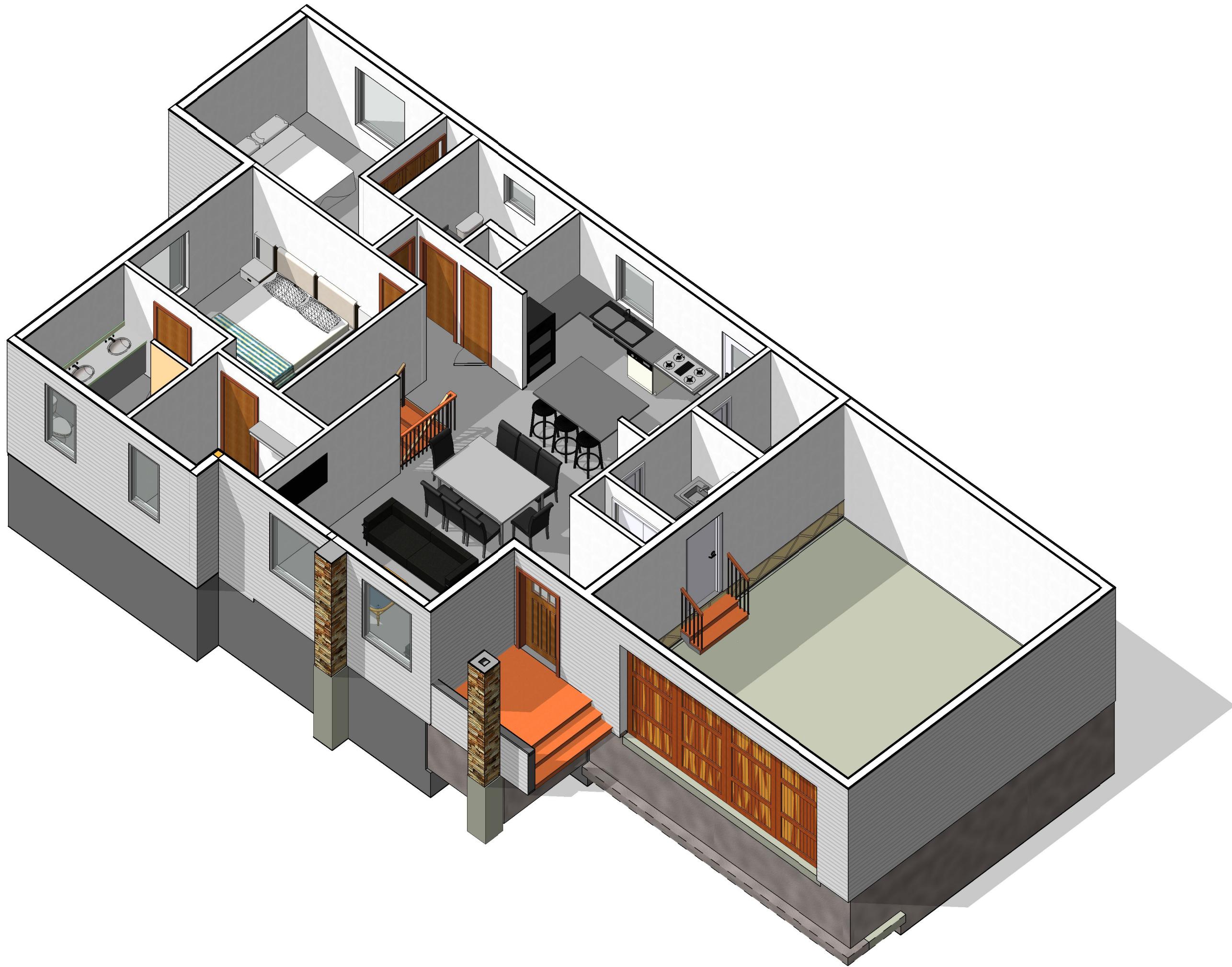
SPECIFICATIONS

SHEET NUMBER:

A4.0



2 3D VIEW LOWER LEVEL



1 3D VIEW FIRST LEVEL



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SHEET NAME:

3D VIEW FIRST
LEVEL

SHEET NUMBER:
A5.0



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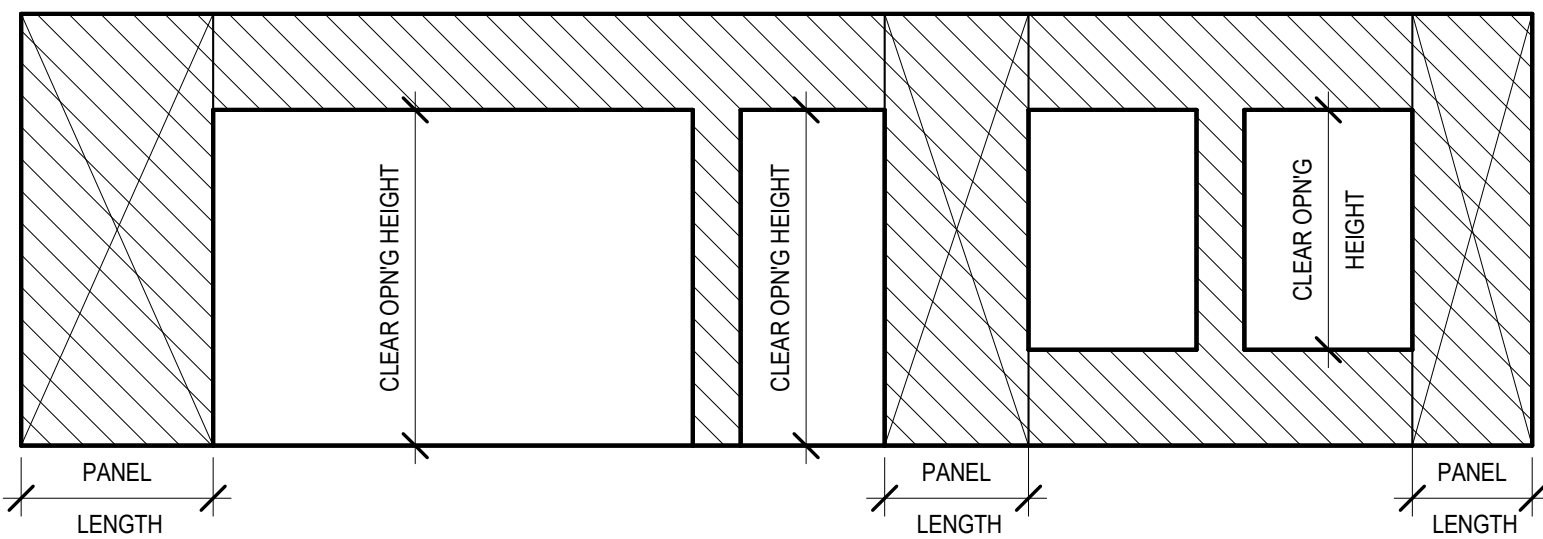
FRAMING DETAILS

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A6.0

TABLE R602.10.6.4
TENSION STRAP CAPACITY FOR RESISTING WIND PRESSURES PERPENDICULAR TO METHODS PFH, PFG AND CS-PR BRACED WALL PANELS*

MINIMUM WALL STUD FRAMING NOMINAL SIZE AND GRADE	MAXIMUM PONY WALL HEIGHT (FEET)	MAXIMUM TOTAL WALL HEIGHT (FEET)	MAXIMUM OPENING WIDTH (FEET)	TENSION STRAP CAPACITY REQUIRED (pounds)*					
				ULTIMATE DESIGN WIND SPEED V _{ult} (mph)					
				110	115	130	110	115	130
2x4 NO. 2 GRADE	0	10	18	1,000	1,000	1,000	1,000	1,000	1,050
			9	1,000	1,000	1,000	1,000	1,000	1,750
			16	1,000	1,025	2,050	2,075	2,500	3,950
	1	10	18	1,000	1,275	2,375	2,400	2,850	DR
			9	1,000	1,025	1,475	1,500	2,875	3,125
			16	1,775	2,175	3,525	3,550	4,125	DR
	2	10	18	2,075	2,500	3,950	3,975	DR	DR
			9	1,150	1,500	2,650	2,675	3,175	DR
			16	2,875	3,375	DR	DR	DR	DR
	4	12	18	3,425	3,975	DR	DR	DR	DR
			9	2,275	2,750	DR	DR	DR	DR
			12	3,225	3,775	DR	DR	DR	DR
2x6 STUD GRADE	2	12	9	1,000	1,000	1,700	1,700	2,025	3,050
			16	1,825	2,150	3,225	3,225	3,675	DR
			18	2,200	2,550	3,725	3,750	DR	DR
	4	12	9	1,450	1,750	2,700	2,725	3,125	DR
			16	2,050	2,400	DR	DR	DR	DR
			18	3,350	3,800	DR	DR	DR	DR

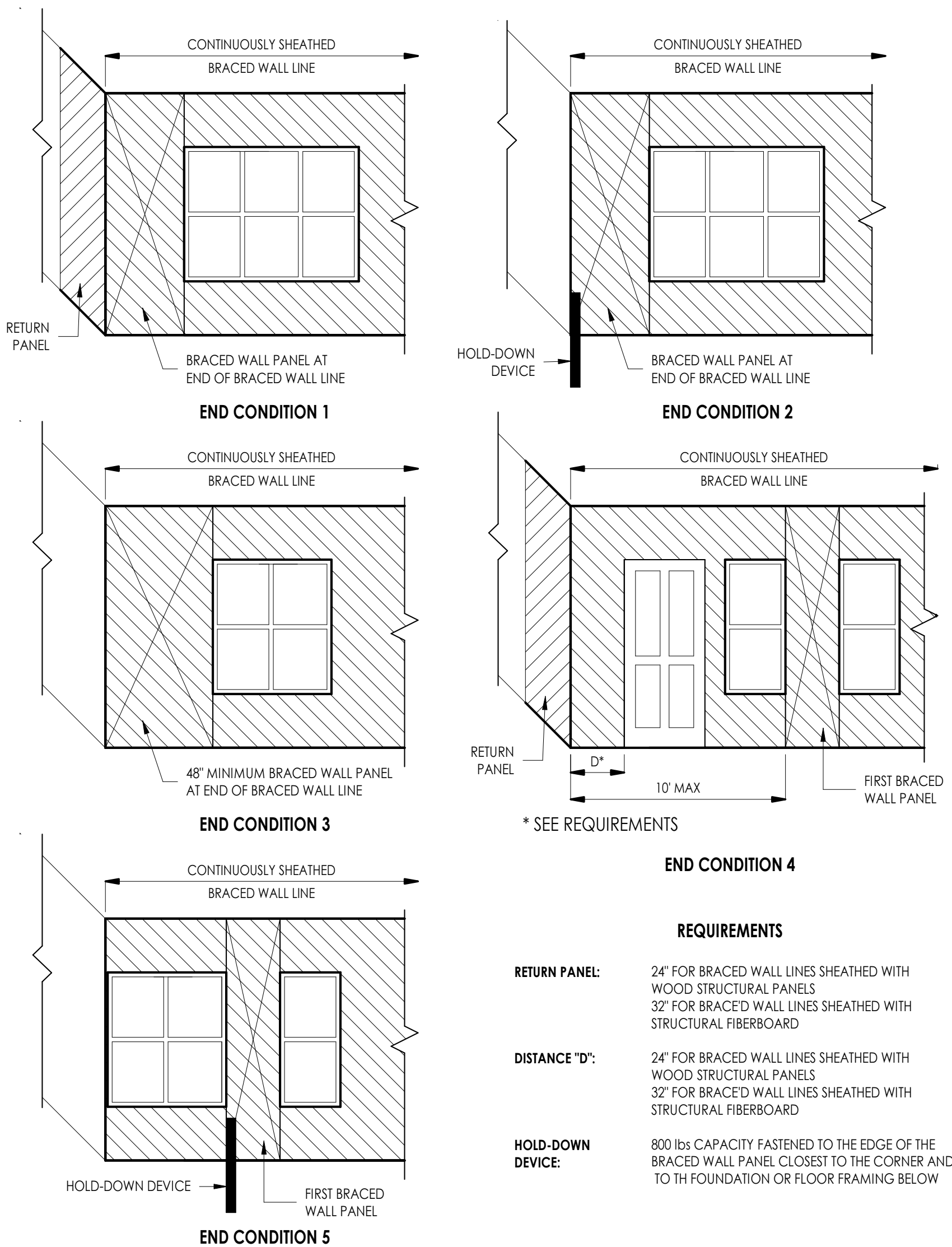


BRACED WALL PANELS WITH CONTINUOUS SHEATHING

FIGURE R602.10.5

1 R602.10.5 BRACED WALL PANELS CONT SHEATHING

1/4" = 1'-0"

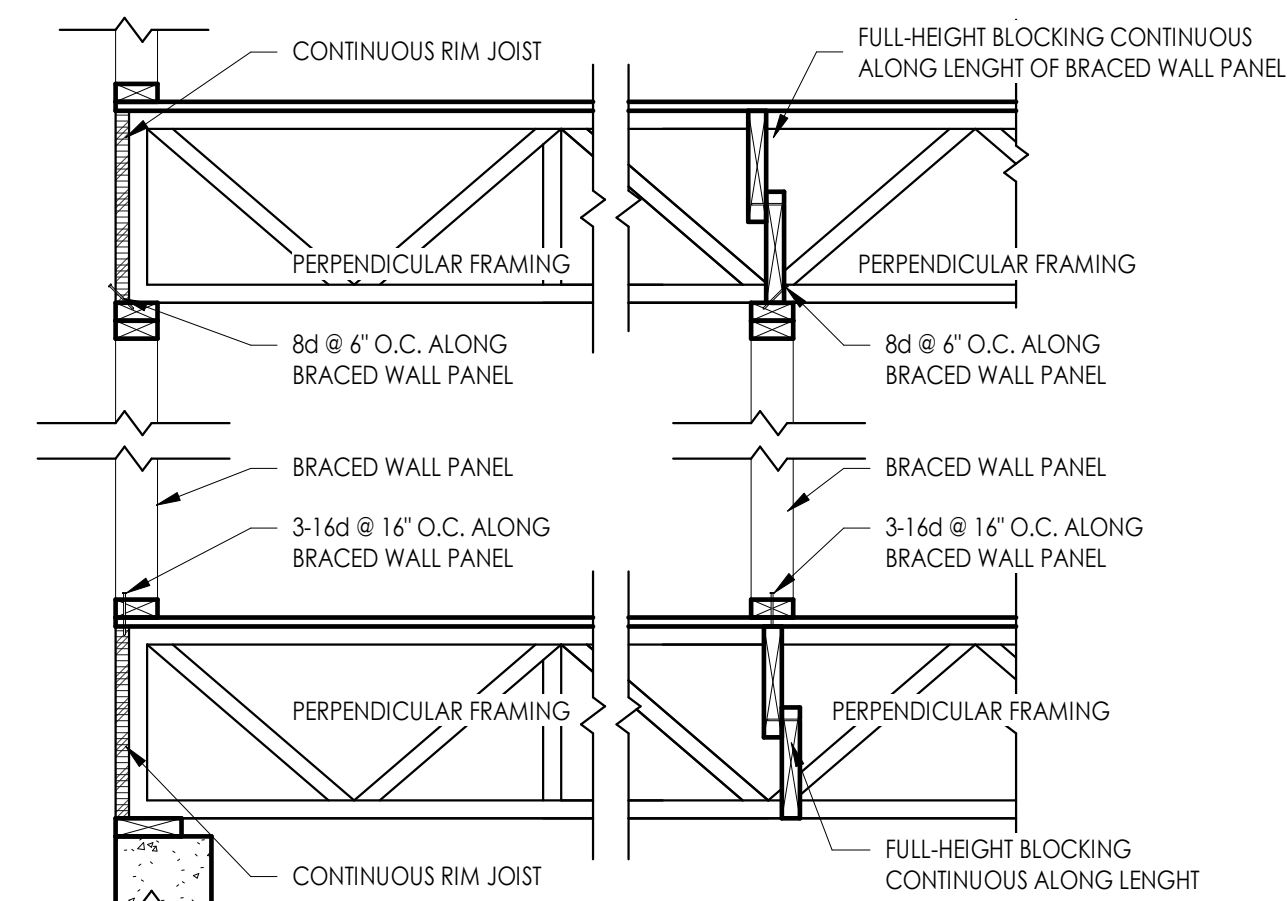


END CONDITIONS FOR BRACED WALL LINES WITH CONTINUOUS SHEATHING

FIGURE R602.10.7

2 R602.10.7 END CONDITIONS FOR B.W.L. W/ C.S.-WSP

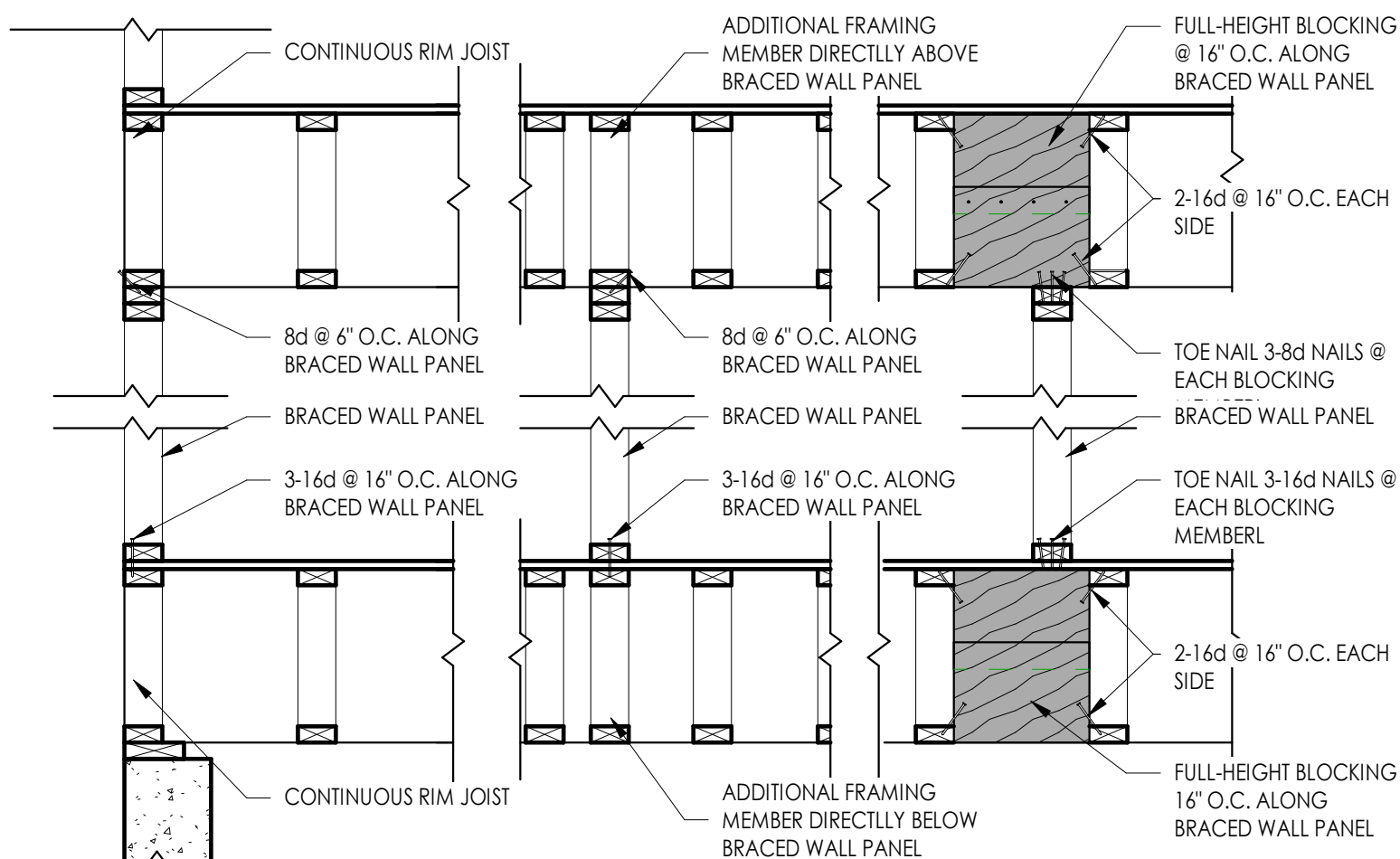
1/4" = 1'-0"



BRACED WALL PANEL CONNECTION PERPENDICULAR TO FLOOR/CEILING FRAMING

3 R602.10.8 BWP @ FLOOR TRUSS DETAIL

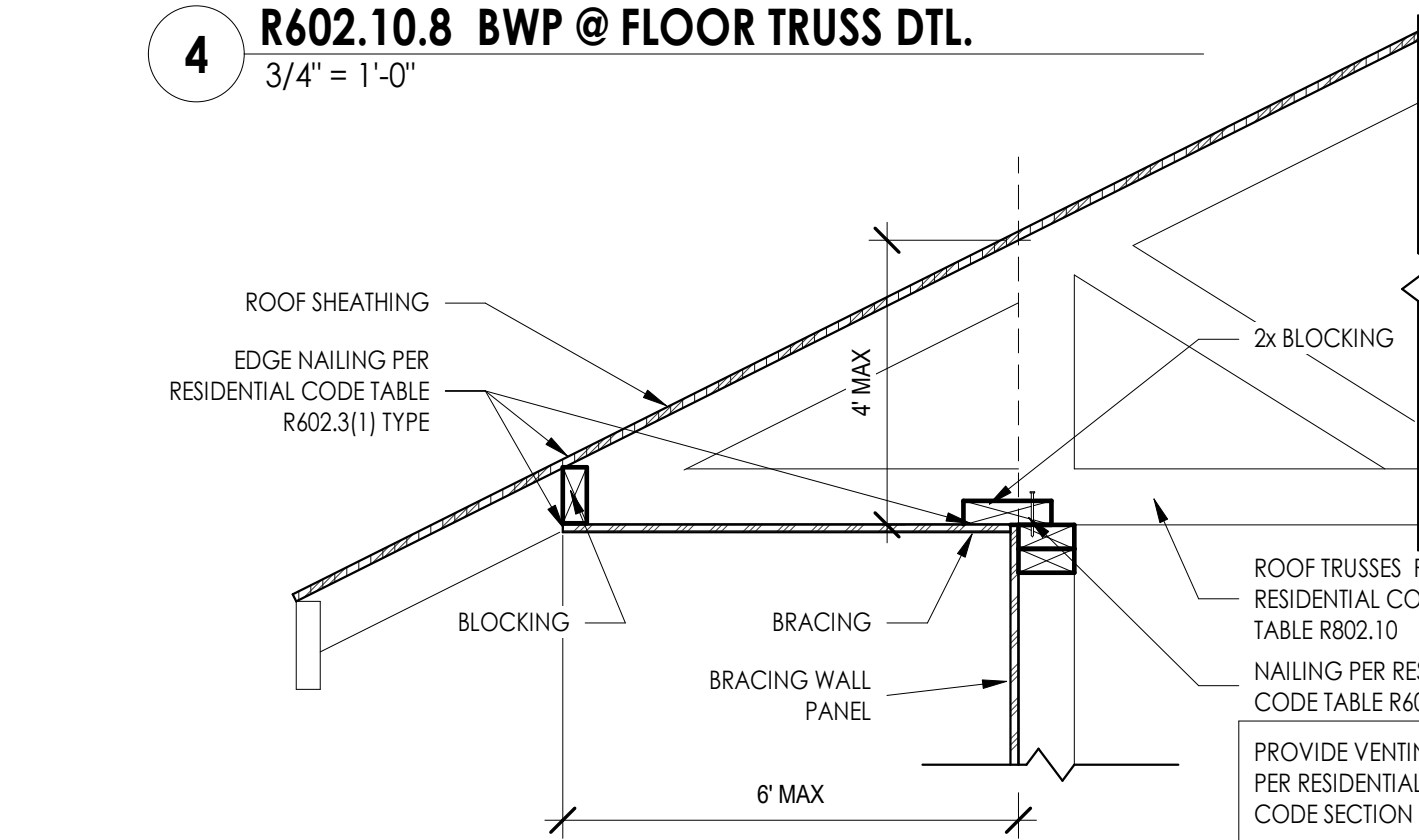
3/4" = 1'-0"



BRACED WALL PANEL CONNECTION PARALLEL TO FLOOR/CEILING FRAMING

4 R602.10.8 BWP @ FLOOR TRUSS DTL.

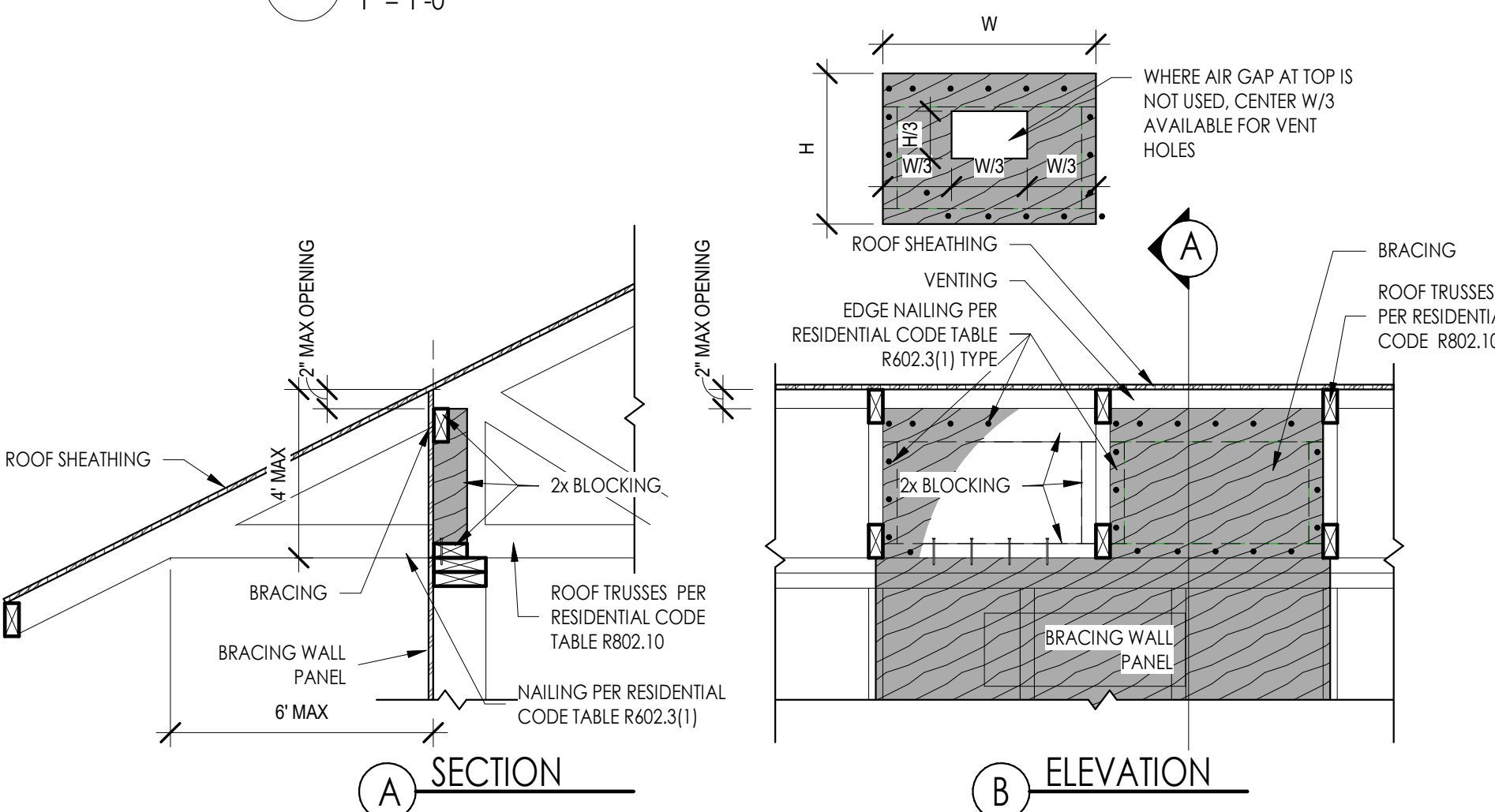
3/4" = 1'-0"



BRACED WALL PANEL CONNECTION OPTION TO PERPENDICULAR RAFTERS OR ROOF TRUSSES

5 R602.10.8.2 B.W.P. CONNECTION DETAILS

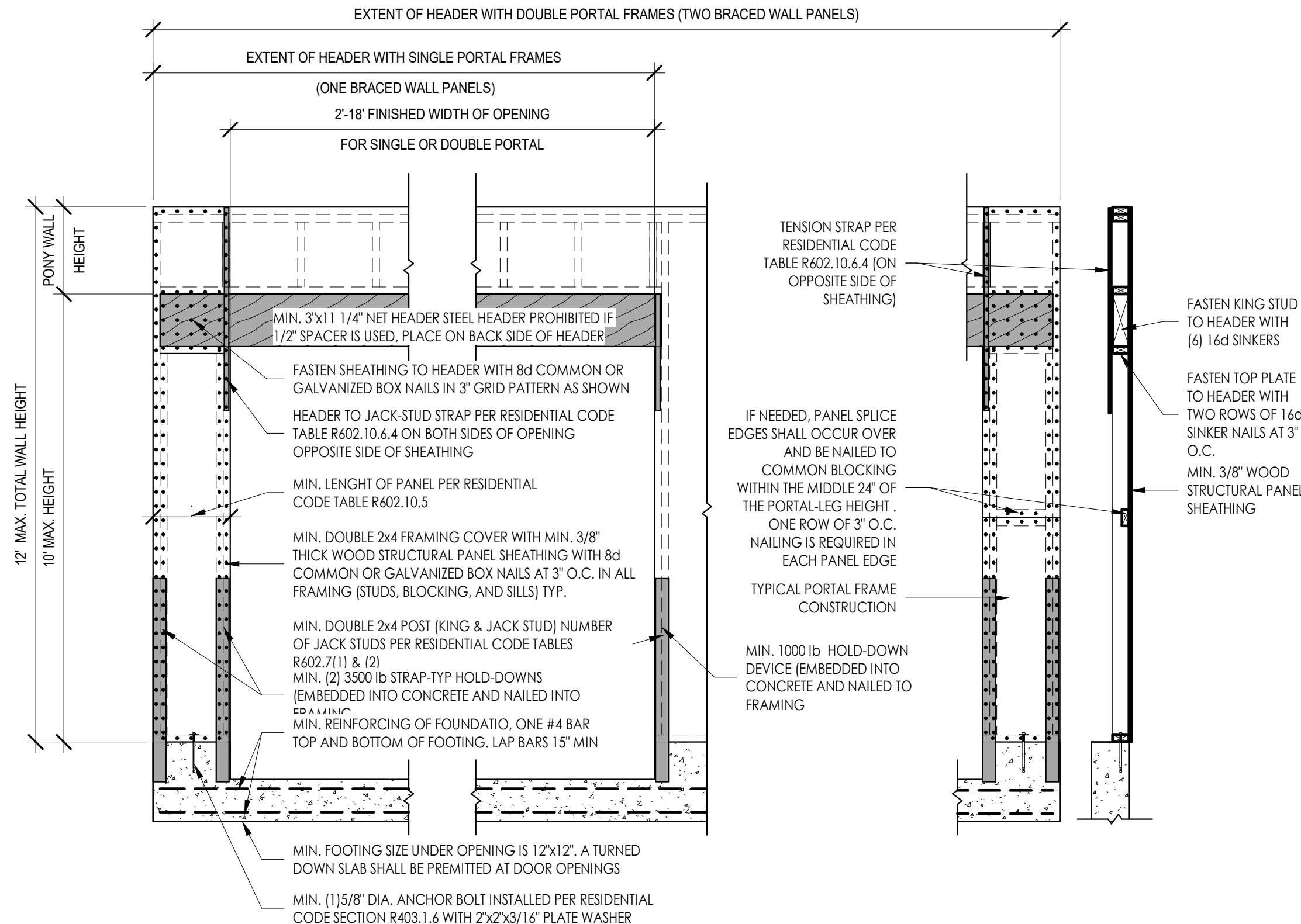
1" = 1'-0"



BRACED WALL PANEL CONNECTION OPTION TO PERPENDICULAR RAFTERS OR ROOF TRUSSES

6 R602.10.8.2 (1) - R602.10.8.2 (3) B.W.P. CONNECTION

3/4" = 1'-0"



METHOD PFH PORTAL FRAME WITH HOLD-DOWNS

FIGURE R602.10.6.2

7 R602.10.6.2 PORTAL FRAME PFH

1/2" = 1'-0"

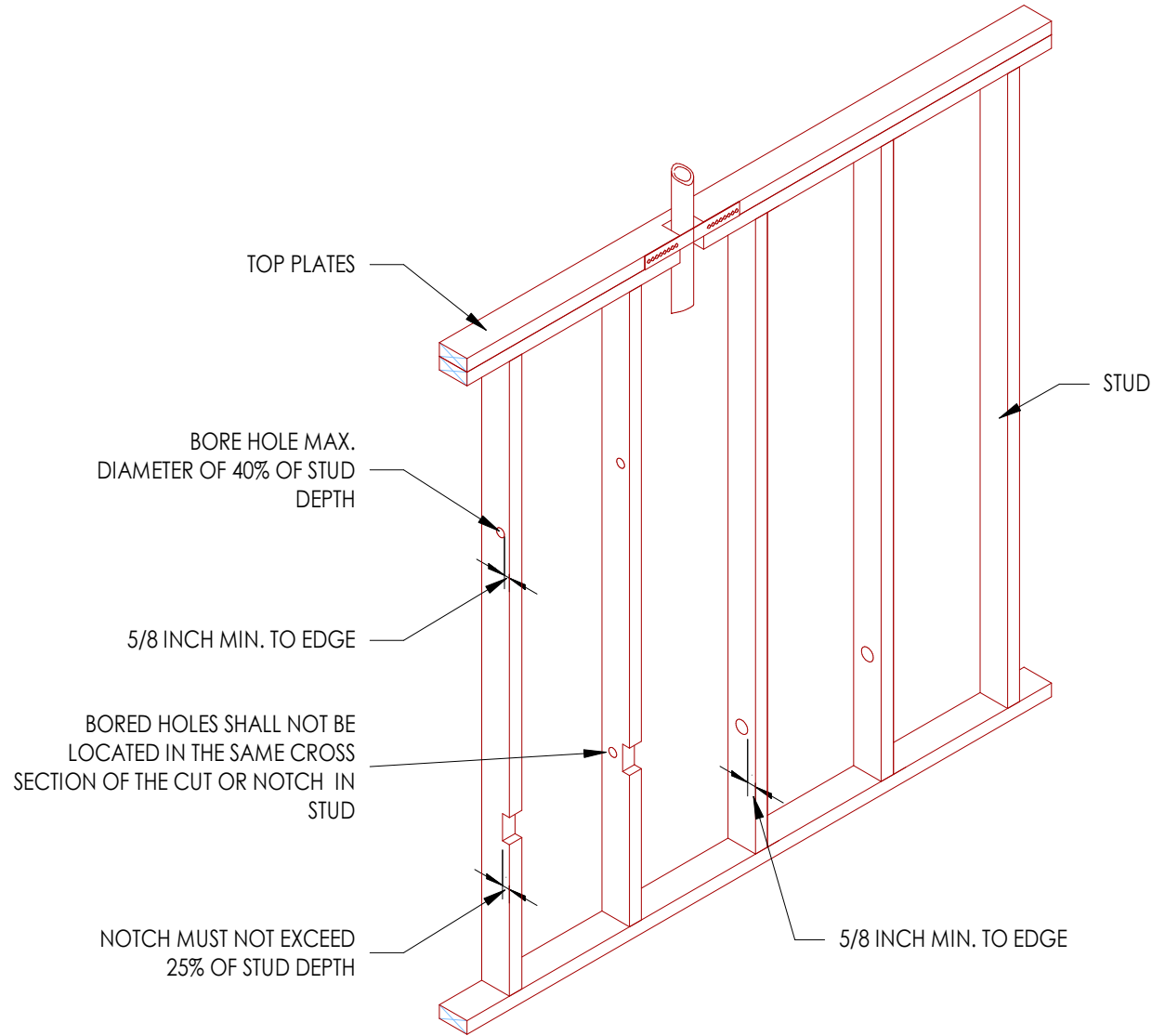
DIMENSION LUMBER BUILT-UP WOOD HEADER / BEAM FASTENING SCHEDULE			
PLYS	DEPTH	FASTENERS	
2	D < 8"	10d NAILS 2 ROWS @ 12" O.C.	
2	D ≥ 8"	10d NAILS 3 ROWS @ 12" O.C.	
3	D < 8"	16d NAILS 2 ROWS @ 12" O.C.	
3	D ≥ 8"	16d NAILS 3 ROWS @ 12" O.C.	
1. FOR 2 PLY MEMBERS ALL FASTENERS ARE TO BE INSTALLED FROM SAME SIDE FOR 3 PLY MEMBERS SAME FASTENERS ARE INSTALLED @ EACH FACE. STAGGER LAYOUT 1/2 FASTENER SPACING FROM ONE FACE TO THE OTHER. 2. FOR 2 PLY MEMBERS ALL FASTENERS ARE TO BE INSTALLED FROM SAME SIDE FOR 3 PLY MEMBERS SAME FASTENERS ARE INSTALLED @ EACH FACE. STAGGER LAYOUT 1/2 FASTENER SPACING FROM ONE FACE TO THE OTHER. 3. FOR 4 PLY MEMBERS ALL FASTENERS ARE TO BE INSTALLED FROM SAME FACE.			

LVL LUMBER BUILT-UP WOOD HEADER / BEAM FASTENING SCHEDULE			
PLYS	DEPTH	FASTENERS	
2	D < 12"	16d NAILS 2 ROWS @ 12" O.C.	
2	12 < D ≤ 18"	16d NAILS 3 ROWS @ 12" O.C.	
2	D > 18"	16d NAILS 4 ROWS @ 12" O.C.	
3	D < 14"	16d NAILS 2 ROWS @ 12" O.C.	
3	14 < D ≤ 20"	10d NAILS 3 ROWS @ 12" O.C.	
3	D > 20"	16d NAILS 4 ROWS @ 12" O.C.	
4	D ≤ 16"	0.22" Ø x 6 1/2" TRUSSLOK SCREWS 2 ROWS @ 18" O.C.	
4	D > 16"	0.22" Ø x 6 1/2" TRUSSLOK SCREWS 3 ROWS @ 18" O.C.	
1. FOR 2 PLY MEMBERS ALL FASTENERS ARE TO BE INSTALLED FROM SAME SIDE FOR 3 PLY MEMBERS SAME FASTENERS ARE INSTALLED @ EACH FACE. STAGGER LAYOUT 1/2 FASTENER SPACING FROM ONE FACE TO THE OTHER. 2. FOR 2 PLY MEMBERS ALL FASTENERS ARE TO BE INSTALLED FROM SAME SIDE FOR 3 PLY MEMBERS SAME FASTENERS ARE INSTALLED @ EACH FACE. STAGGER LAYOUT 1/2 FASTENER SPACING FROM ONE FACE TO THE OTHER. 3. FOR 4 PLY MEMBERS ALL FASTENERS ARE TO BE INSTALLED FROM SAME FACE.			

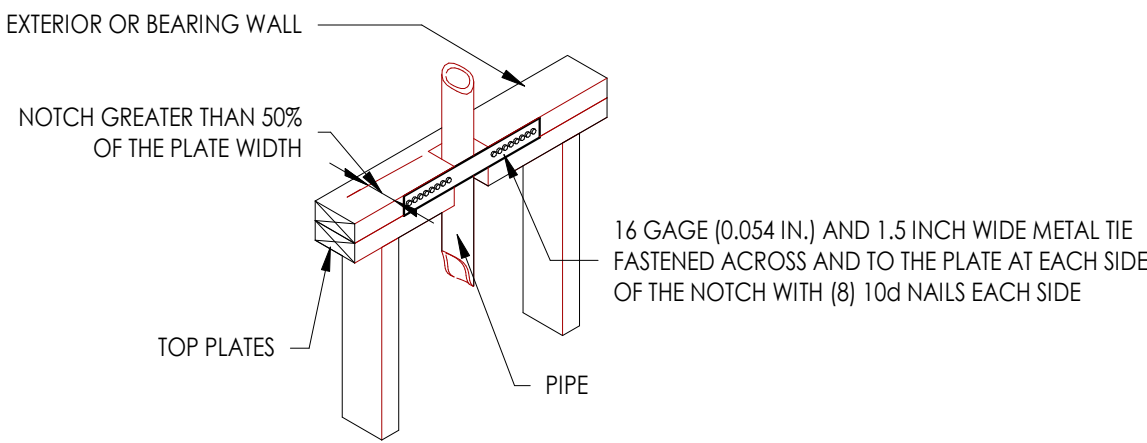


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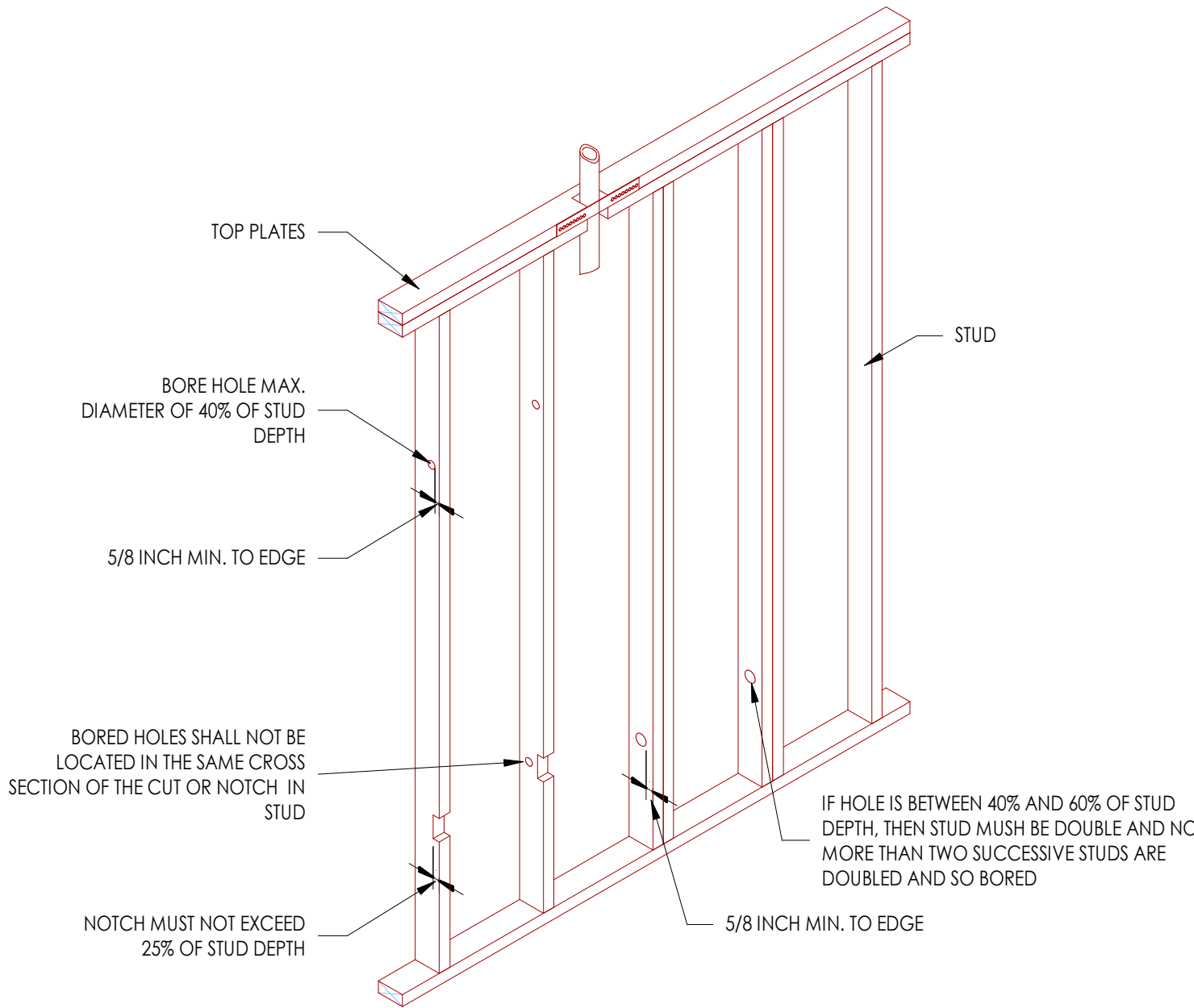


1 R602.6 FRAMING DTL.
3/4" = 1'-0"

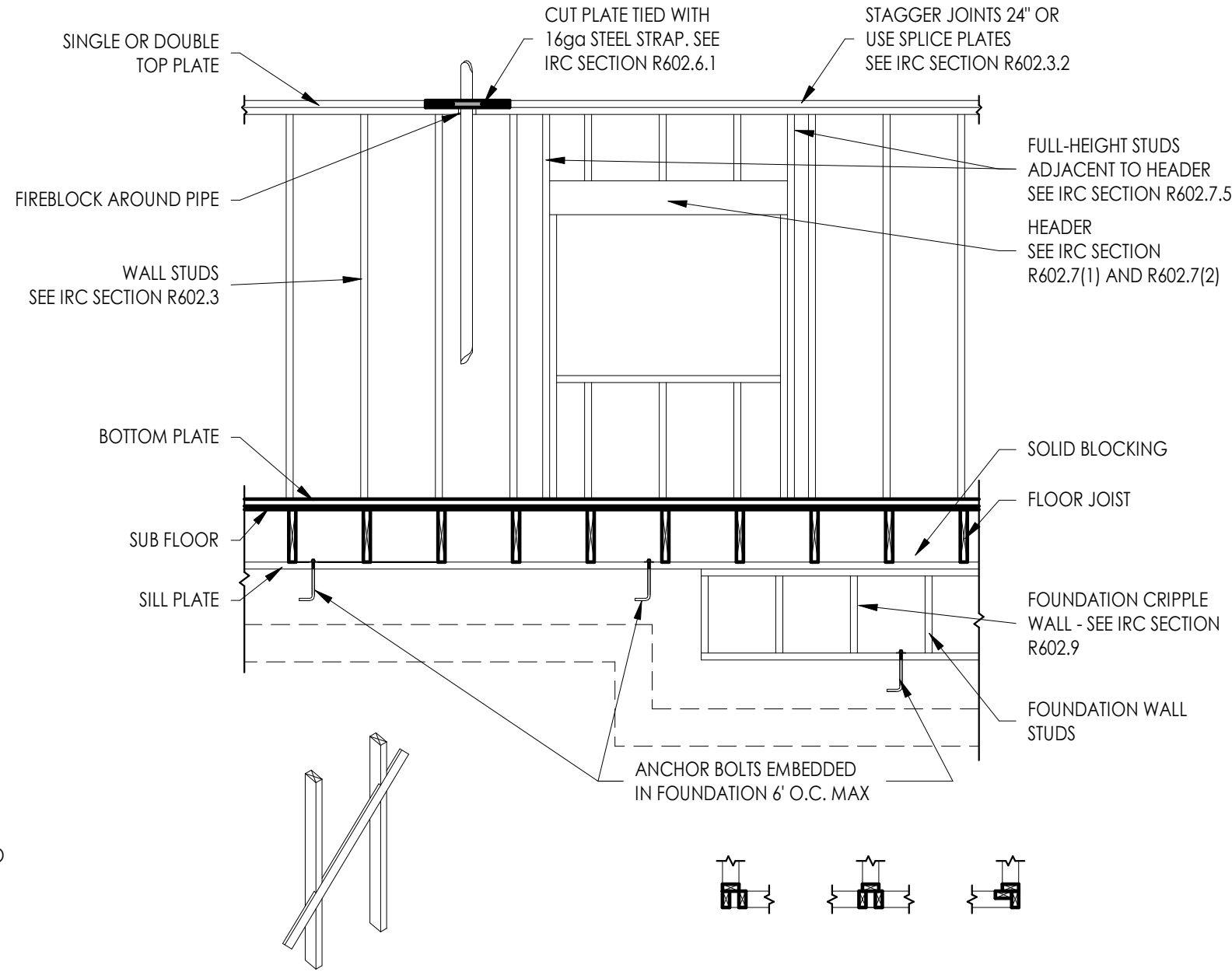


TOP PLATE FRAMING TO ACCOMMODATE PIPING
FIGURE R602.6.1

2 R602.6.6 FRAMING DTL.
1" = 1'-0"



3 R602.6.7 FRAMING DTL.
3/4" = 1'-0"

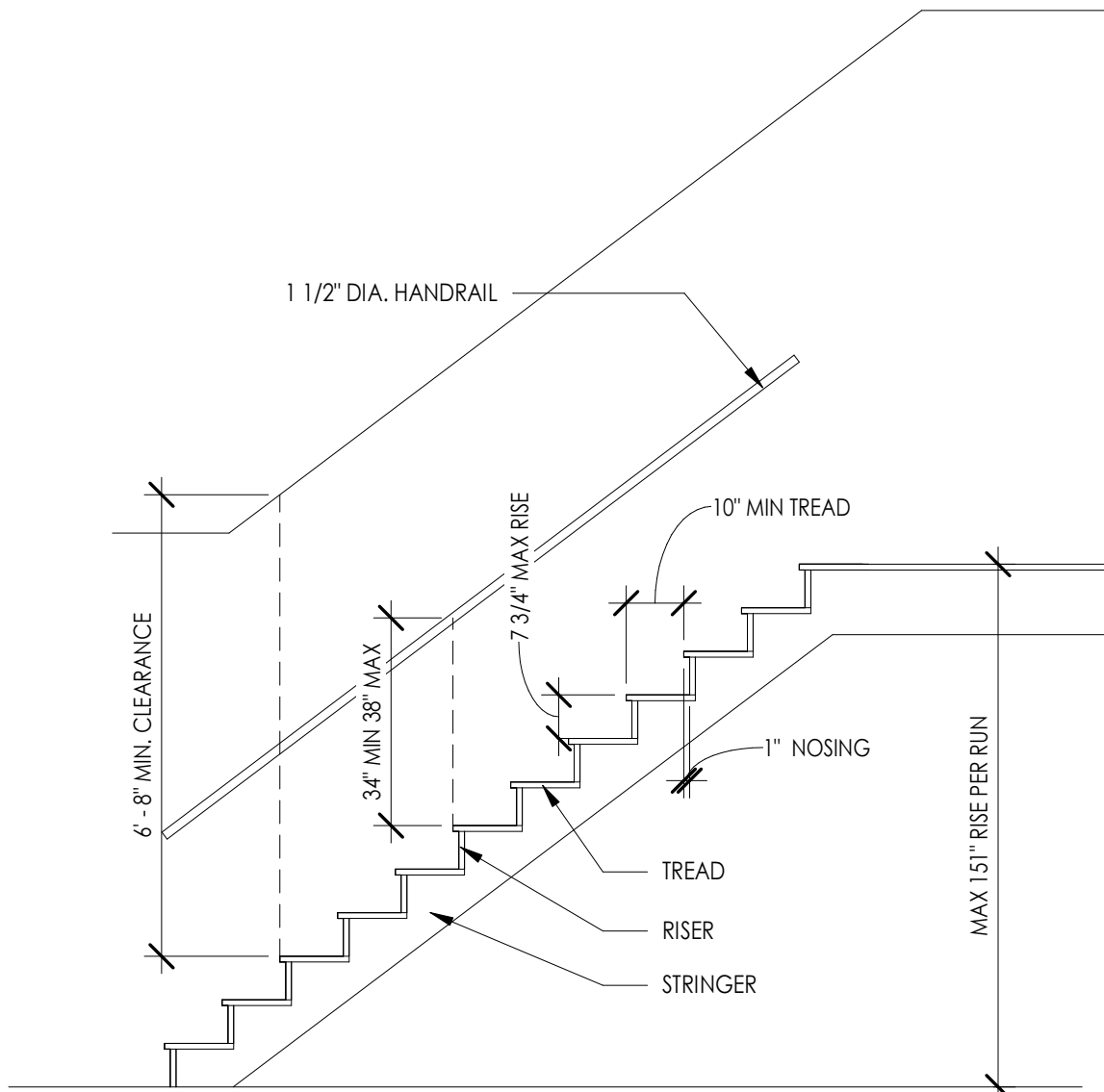


APPLY APPROVED SHEATHING OR BRACE EXTERIOR WALLS WITH 1"x4" BRACES LET INTO STUDS AND PLATES AND EXTENDING FROM BOTTOM PLATE TO TOP PLATE, OR OTHER APPROVED METAL STRAP DEVICES INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS, SEE IRC SECTION R602.10.

NOTE: A THIRD STUD AND/OR PARTITION INTERSECTION BACKING STUDS SHALL BE PERMITTED TO BE OMITTED THROUGH THE USE OF WOOD BACKUP CLEATS, METAL DRYWALL CLIPS OR OTHER APPROVED DEVICES THAT WILL SERVE AS ADEQUATE BACKING FOR THE FACING MATERIALS.

FRAMING DETAILS
R602.3(2)

4 R602.3(2) FRAMING DTL
3/8" = 1'-0"



5 TYPICAL STAIR DTL.
3/8" = 1'-0"

REV. NO.	REVISION	DATE

PROJECT NUMBER:	21-0057
DRAWN BY:	TODD K
REVIEWED BY:	VERONICA K
DATE:	3/09/2021
PRINT DATE:	3/15/2021

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CONSTRUCTION PLAN SET

PROJECT NAME:

LEE RESIDENCE

STILLWATER MN
SHEET NAME:

FRAMING DETAILS

SHEET NUMBER:

A6.1