

VANORNUM RESIDENCE

PLAN INFORMATION:

FRAMING NOTES:

- ALL EXTERIOR WALLS TO BE 16" O.C. WITH A DOUBLE TOP PLATE UNLESS OTHERWISE NOTED.
- WALL FRAMING SHALL BE S.P.F. STUD GRADE OR BETTER UNLESS NOTED OTHERWISE (U.N.O.)
- ALL HEADERS SHALL BE PER PLAN
- ALL EXTERIOR HEADERS SHALL HAVE (1)2X6 BEARING STUD & (1) 2X6 FULL HEIGHT KING STUD ON EACH SIDE U.N.O. (REVIEW PLANS)
- ALL INTERNAL HEADERS & BEAMS SHALL HAVE (1)2X6 OR (1)2X4 BEARING STUD ON EACH SIDE U.N.O.
- EXTERIOR SHEATHING SHALL BE 7/16" MATERIAL CONSISTING OF ORIENTED STRAND BOARD (OSB)-ALL FLOOR AND CEILING SYSTEMS TO BE CHECKED AND DESIGNED BY THE DESIGNATED MANUFACTURER. FLOOR PLANS TO BE ON SITE.
- HEADER SIZES ARE TO BE USED PER PLAN AND DEVIATION FROM ANY SIZE MUST BE APPROVED BY DESIGNERS.
- PRESSURE TREATED WOOD IS TO BE USED WHERE WOOD IS IN CONTACT WITH CONCRETE AND AT 2X6 MUD SILL. TREATED MEMBERS TO BE S.Y.P.#2 OR BETTER.
- FOR OPENINGS IN EXTERIOR WALLS (OR WALLS W/ LATERAL LOADING:
 - 0'-0" - 4'-0" = 1 JACK STUD
 - 4'-0" - 8'-0" = 2 JACK STUDS
 - 8'-0" - 12'-0" = 3 JACK STUDS
 - GREATER THAN 12' = CONSULT ENG.
- POSTS CALLED OUT ARE NUMBER OF KING STUDS REQUIRED PER SIDE OF OPENING.

CONCRETE NOTES:

- ALL CONCRETE FOOTINGS AND FOUNDATION SYSTEMS ARE DESIGNED FOR A 2000 P.SF. SOIL.
- FOUNDATION WALLS SHALL BE FULL HEIGHT AT UNBALANCED FILL GREATER THAN 3'4".
- 1/2" ANCHOR BOLTS EMBEDDED 7" MINIMUM @ 6" O.C. MAX. 12" MIN, FROM EACH END. MINIMUM OF 2 BOLTS IN EACH SILL PLATE (REFER TO STRUCTURAL PAGES).
- PAD FOOTING REINFORCEMENT IS TO BE LOCATED (3") FROM BOTTOM OF FOOTING TYP. (WHEN REQUIRED)
- REFER TO STRUCTURAL PAGES FOR ADDITIONAL INFORMATION REGARDING RE-BAR/ETC.
- MIN. 5000 PSI CONCRETE @ ALL FOOTINGS

INSULATION:

- ALL EXTERIOR WALLS TO HAVE A MINIMUM RATING OF R-20.
- ALL ATTIC SPACES ARE TO HAVE A MINIMUM RATING OF R-49.
- ALL FLOOR SPACES OVER UNCONDITIONED SPACE OR CANTILEVERED ARE TO BE INSULATED TO MIN. R30.

SHEETROCK/GYPSUM BOARD:

- ALL CEILINGS ARE TO HAVE 5/8" NON-SAG GYPSUM BOARD UNLESS OTHERWISE NOTED.
- ALL WALLS ARE TO HAVE 1/2" GYPSUM BOARD UNLESS OTHERWISE NOTED.
- GARAGE CEILING AND WALLS THAT ADJOIN HOUSE WALLS ARE TO BE 5/8" GYPSUM BOARD PER CODE.

DOORS & WINDOWS:

- ALL WINDOWS AND DOORS TO BE DOUBLE PANE GLASS PANELS WITH LOW-E RATINGS.
- ANY WINDOW WITHIN 24" OF A DOOR SWING MUST BE TEMPERED PER CODE.
- ANY WINDOW ABOVE A TUB/WET AREA MUST BE TEMPERED PER CODE.
- ANY WINDOW WITHIN A STAIRWAY MUST BE TEMPERED PER CODE.
- WINDOW GLAZING MUST BE AT LEAST 18" A.F.F. WHEN WINDOW IS ABOVE 6' FROM GRADE. IF WITHIN 18", WINDOW MUST BE TEMPERED.
- ALL BEDROOMS TO HAVE AT LEAST ONE WINDOW THAT HAS A CLEAR EGRESS OPENING OF 5.7 SQ. FT. WITH MIN. DIMENSIONS OF 24" IN HEIGHT AND 20" IN WIDTH, SILL HEIGHT NOT TO BE GREATER THAN 44" A.F.F.
- WINDOWS WITH SILLS WITHIN 3' OF THE FLOOR THEY SERVE AND ARE 72" ABOVE GRADE MUST EITHER HAVE A FALL PREVENTION OR OPENING LIMITER DEVICE PER CODE.

MECHANICAL & ELECTRICAL:

- ALL ELECTRICAL AND MECHANICAL EQUIPMENT TO BE VERIFIED AND INSTALLED PER CODE BY APPROVED TRADES AND INSTALLERS.
- HVAC CONTRACTOR TO VERIFY LAYOUT FOR DUCT-RUNS BEFORE INSTALLATION, IF MODIFICATION IS REQUIRED, REPORT INFORMATION/CHANGES TO CONTRACTOR & LITTFIN DESIGN.



SHEET INDEX:

C	COVER
A1	FRONT & SIDE ELEVATION
A2	REAR & SIDE ELEVATION
A3	ROOF PLAN
A4	FOUNDATION PLAN
A5	FIRST & SECOND FLOOR PLAN
D1	SECTION THROUGH HOME
D2	SECTION THROUGH GARAGE
D3	DETAILS
R1	RADON DETAILS
S1	WALL BRACING PLANS
S2	WALL BRACING DETAILS

CODE INFORMATION:

SINGLE FAMILY CONSTRUCTION TYPE IRC-1
 -2020 MINNESOTA STATE RESIDENTIAL CODE
 -2020 NATIONAL ELECTRICAL CODE
 -2020 MINNESOTA STATE MECHANICAL&FUEL GAS CODE
 -2020 MINNESOTA STATE FIRE CODE
 -2020 MINNESOTA PLUMBING CODE

SOIL TYPE:

DESIGNED WITH 2000 PSI SOILS, ALL FOUNDATION CONSTRUCTION MUST FACTOR IN THIS AT A MINIMUM.

WIND EXPOSURE:

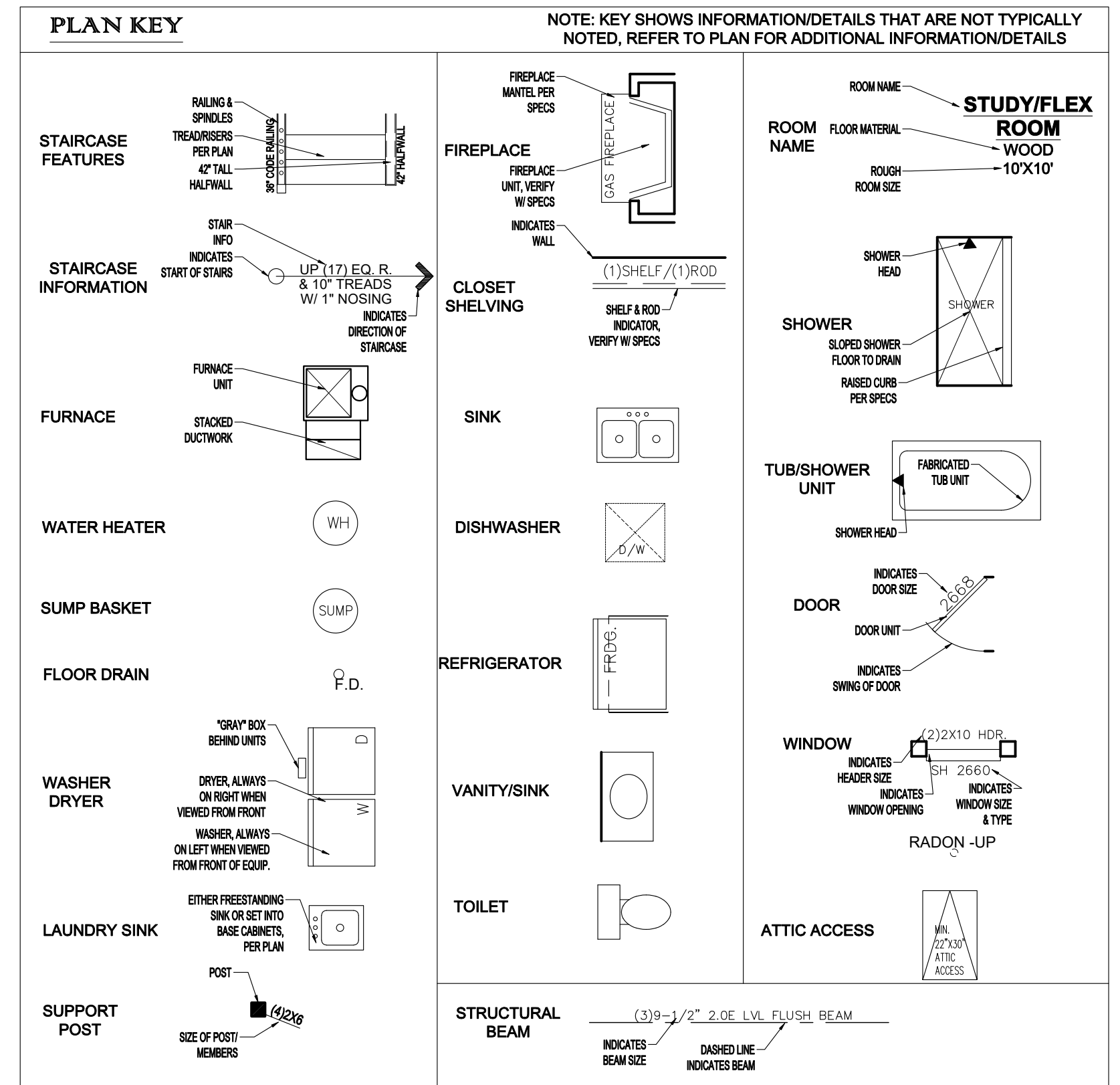
DESIGNED WITH "EXPOSURE B" CLASSIFICATIONS AND WIND GUSTS OF 115 MPH PER 2020 MN RESIDENTIAL CODE REGULATIONS.

GENERAL NOTES:

-ALL FOUNDATION WALL STRUCTURAL INFORMATION USED TO CONSTRUCT THE FOUNDATION SYSTEM IS TO BE ON SITE WHEN POURING OR BUILDING WALLS.
 -ALL STRUCTURAL BEAMS, POSTS & TALL WALLS ARE TO BE BUILT PER I-LEVEL SPECIFICATIONS.
 -ALL MANUFACTURED FLOOR & ROOF TRUSSES ARE TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.
 -ALL MANUFACTURED FLOOR & ROOF TRUSS SPECIFICATIONS ARE TO BE ON SITE DURING INSTALLATION.

-WINDOW SIZE NOTES (EXAMPLES):

- SH3050 EQUALS SINGLE HUNG 3'0" BY 5'0"
- FX2646 EQUALS FIXED 2'6" BY 4'6"



REVISION:	REV. DATE:	DRAWING TITLE:
REVISED TO WORK WITH NEW TRUSS PLAN/LAYOUTS	1-29-21	VANORNUM RESIDENCE
		LOCATION:
		21155 IVERSON AVENUE NORTH, FOREST LAKE, MN

REVISION:	REV. DATE:	DRAWING TITLE:
REVISED TO WORK WITH NEW TRUSS PLAN/LAYOUTS	1-29-21	VANORNUM RESIDENCE
		LOCATION:
		21155 IVERSON AVENUE NORTH, FOREST LAKE, MN

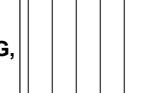

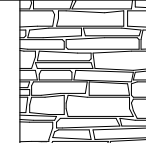
ALL PLANS & DESIGNS SHOWN ARE THE PROPERTY OF LITTFIN DESIGN. USE OF THESE PLANS ON ANY OTHER PROJECT/LOT OTHER THAN NOTED ON THIS TITLEBLOCK WITHOUT THE WRITTEN CONSENT OF LITTFIN DESIGN IS PROHIBITED.
 © COPYRIGHT 2021

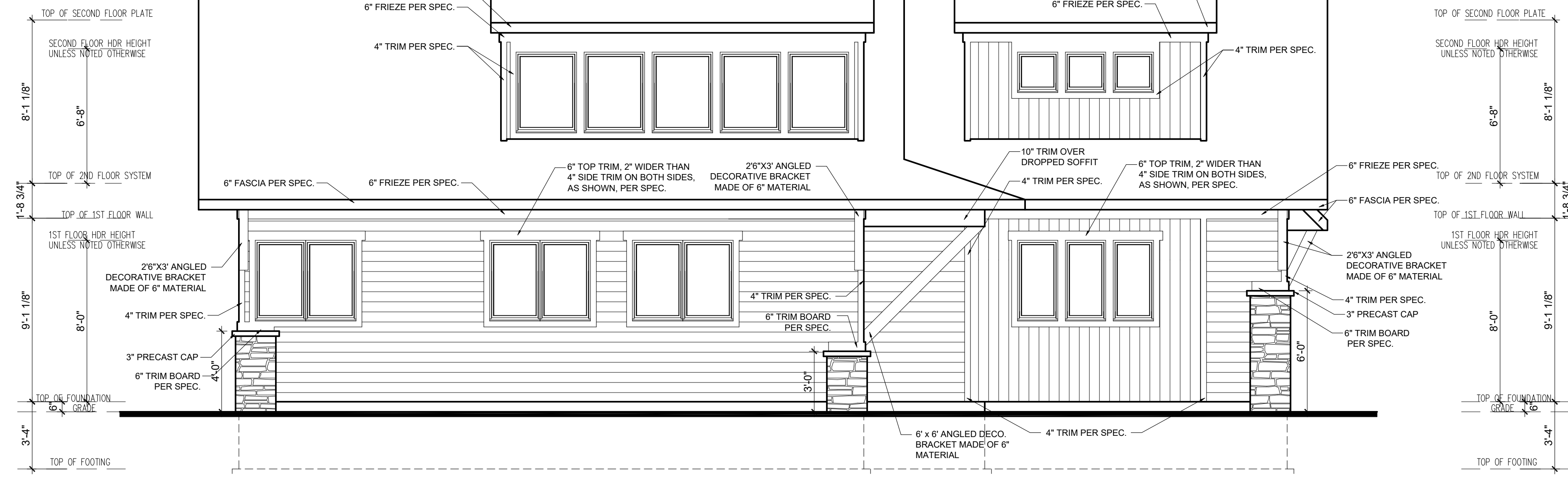


LITTFINDESIGN.COM
 MLITTFIN@HOTMAIL.COM
 320-224-7844
 WINSTED, MN

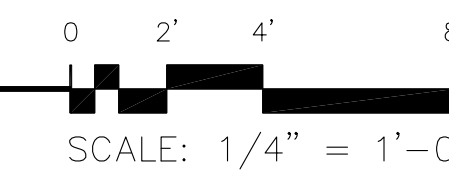
CURRENT DATE:	PAGE	PAGE DESCRIPTION:
1-29-21	C	COVER SHEET
	L C D	SCALED PRINT @ 24X36

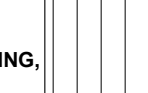

CURRENT DATE:	PAGE	PAGE DESCRIPTION:
1-29-21	C	COVER SHEET
	L C D	SCALED PRINT @ 24X36

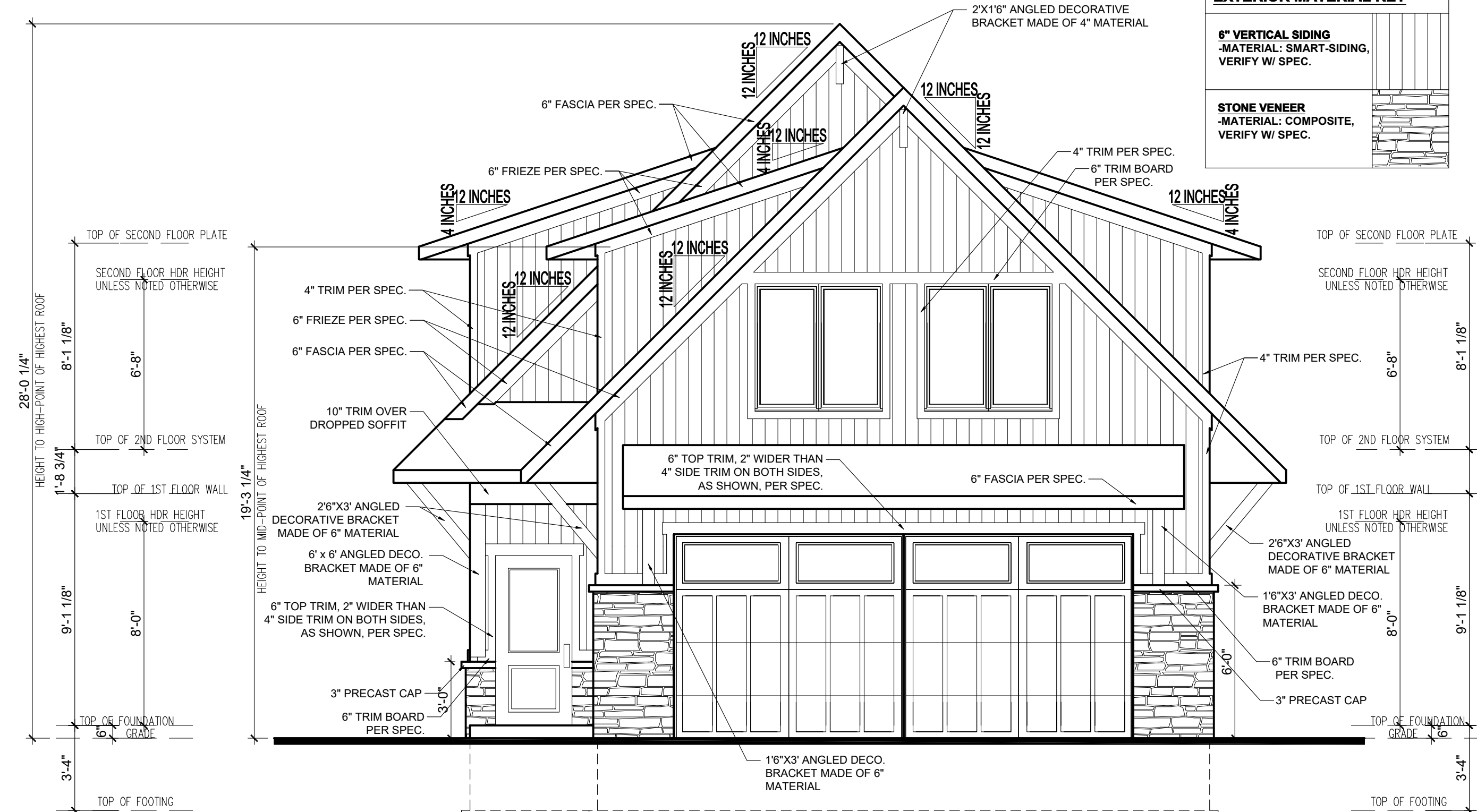
EXTERIOR MATERIAL KEY	
6" VERTICAL SIDING -MATERIAL: SMART-SIDING, VERIFY W/ SPEC.	
6" HORIZONTAL SIDING -MATERIAL: SMART-SIDING, VERIFY W/ SPEC.	
STONE VENEER -MATERIAL: COMPOSITE, VERIFY W/ SPEC.	



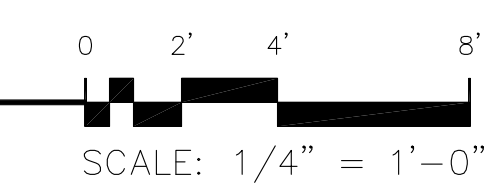
2 LEFT ELEVATION
SCALE: 1/4" = 1'-0"



EXTERIOR MATERIAL KEY	
6" VERTICAL SIDING -MATERIAL: SMART-SIDING, VERIFY W/ SPEC.	
STONE VENEER -MATERIAL: COMPOSITE, VERIFY W/ SPEC.	



1 FRONT ELEVATION
SCALE: 1/4" = 1'-0"



GENERAL EXTERIOR NOTES:

1. ALL EXT. TRIM TO BE FLASHED PER CODE.
2. SUPPLY DRIPCUPS ON ALL WINDOWS AND DOORS.
3. SUPPLY SEPARATION BETWEEN WOOD, COMPOSITE WOOD AND ANY OTHER WOOD MATERIAL PER SPECIFICATIONS.
4. SUPPLY AT LEAST 6" OF SPACE BETWEEN BOTTOMS OF WINDOWS AND ROOFS.
5. GRADE CONDITIONS MAY VARY ON SITE.
6. PROVIDE ROOF AND SOFFIT VENTS PER IRC CODE REGULATIONS.
7. ALL FURNACE FLUES, PLUMBING VENTS, FIREPLACE VENTS AND OTHER PENETRATIONS THROUGH ROOF OR WALLS TO EXTEND THROUGH REAR OF HOME WHENEVER POSSIBLE.
8. ALL PENETRATIONS THROUGH EXTERIOR WALLS OR ROOFING MUST BE SEALED AND FLASHED PER MANUF. SPECIFICATIONS AND IRC CODE REGULATIONS.
9. DOTTED AREA ON ROOF PLAN INDICATES LOCATION OF ICE/WATER BARRIER.
10. HOLD STONE OFF GRADE MINIMUM OF 3".
11. REFER TO MANUF. SPECIFICATIONS FOR STONE.
12. GARAGE BUCK BOARD MATERIAL IS TO BE COMPOSITE WOOD AND SIZED TO COVER THE EDGE OF STONE.
14. ALL BEAMS HOLDING UP PORCH ROOFS ARE TO BE DROPPED UNLESS OTHERWISE NOTED.

REVISION:	REV. DATE:
REVISED TO WORK WITH NEW TRUSS PLAN/LAYOUTS	1-29-21

DRAWING TITLE:
VANORNUM RESIDENCE
LOCATION: 21155 IVERSON AVENUE NORTH, FOREST LAKE, MN

ALL PLANS & DESIGNS SHOWN ARE THE PROPERTY OF LITTFIN DESIGN. USE OF THESE PLANS ON ANY OTHER PROJECT/LOT OTHER THAN NOTED ON THIS TITLEBLOCK WITHOUT THE WRITTEN CONSENT OF LITTFIN DESIGN IS PROHIBITED.
© COPYRIGHT 2021



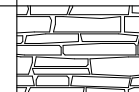


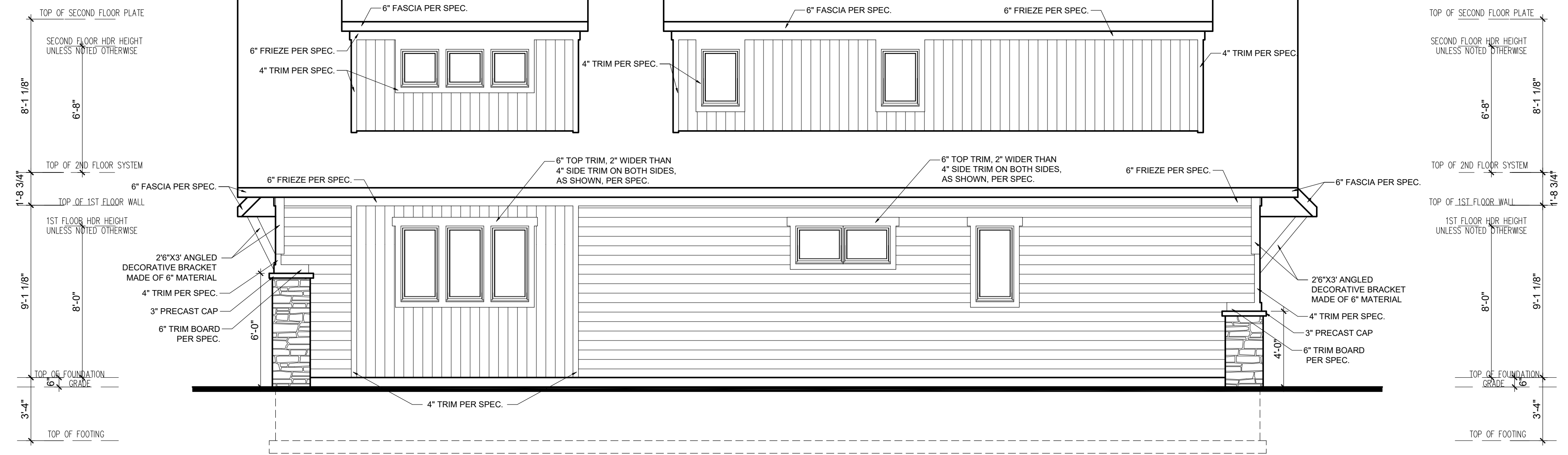
LITTFINDESIGN.COM
MLITTFIN@HOTMAIL.COM
320-224-7844
WINSTED, MN

CURRENT DATE:
1-29-21

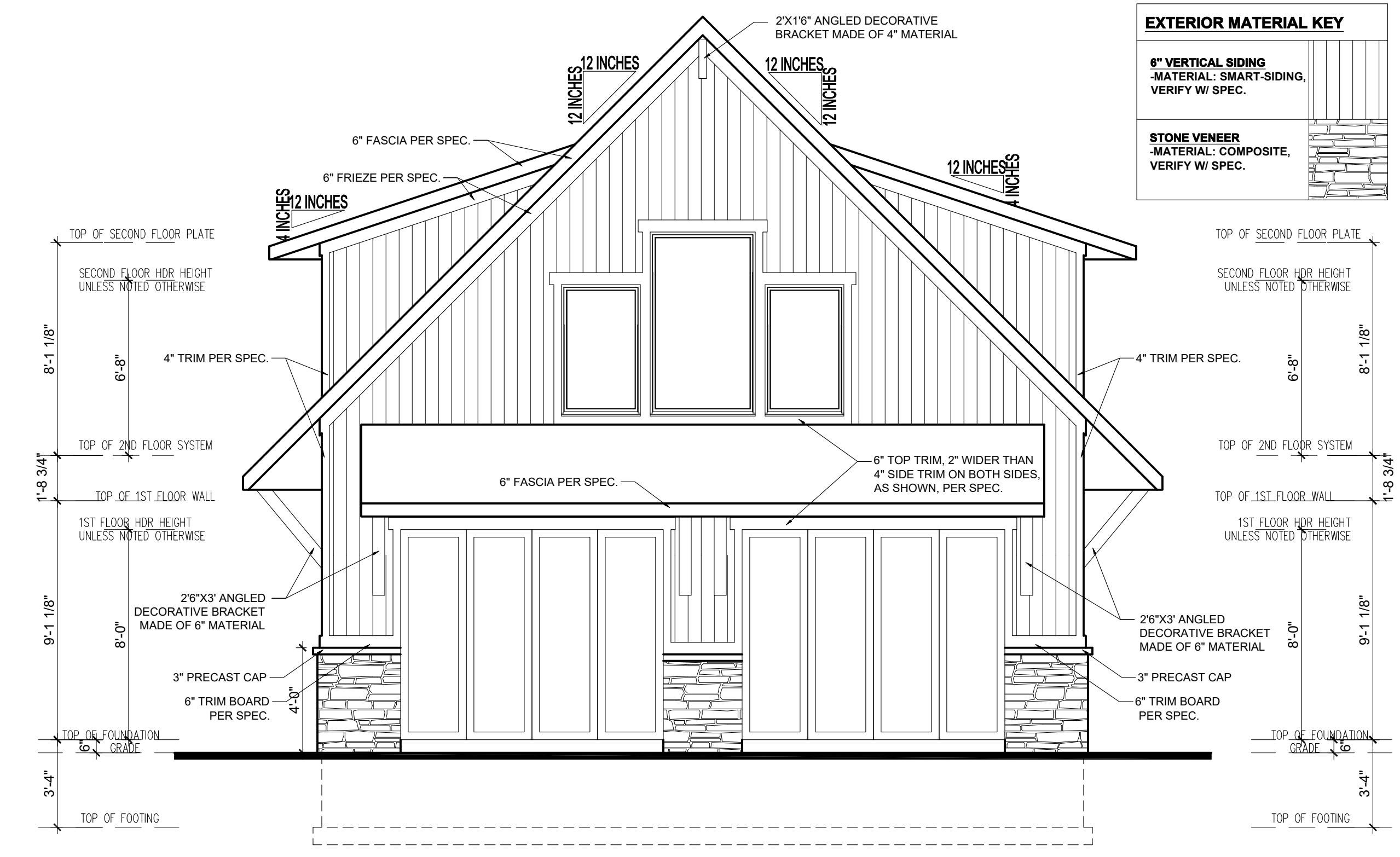
PAGE
A1

PAGE DESCRIPTION:
FRONT & SIDE ELEVATION SCALED PRINT @ 24X36

EXTERIOR MATERIAL KEY	
6" VERTICAL SIDING -MATERIAL: SMART-SIDING, VERIFY W/ SPEC.	
6" HORIZONTAL SIDING -MATERIAL: SMART-SIDING, VERIFY W/ SPEC.	
STONE VENEER -MATERIAL: COMPOSITE, VERIFY W/ SPEC.	



2 RIGHT ELEVATION
SCALE: 1/4" = 1'-0"



1 REAR ELEVATION
SCALE: 1/4" = 1'-0"

GENERAL EXTERIOR NOTES:

- ALL EXT. TRIM TO BE FLASHED PER CODE.
- SUPPLY DRIPCUPS ON ALL WINDOWS AND DOORS.
- SUPPLY SEPARATION BETWEEN WOOD, COMPOSITE WOOD AND ANY OTHER WOOD MATERIAL PER SPECIFICATIONS.
- SUPPLY AT LEAST 6" OF SPACE BETWEEN BOTTOMS OF WINDOWS AND ROOFS.
- GRADE CONDITIONS MAY VARY ON SITE.
- PROVIDE ROOF AND SOFFIT VENTS PER IRC CODE REGULATIONS.
- ALL FURNACE FLUES, PLUMBING VENTS, FIREPLACE VENTS AND OTHER PENETRATIONS THROUGH ROOF OR WALLS TO EXTEND THROUGH REAR OF HOME WHENEVER POSSIBLE.
- ALL PENETRATIONS THROUGH EXTERIOR WALLS OR ROOFING MUST BE SEALED AND FLASHED PER MANUF. SPECIFICATIONS AND IRC CODE REGULATIONS.
- DOTTED AREA ON ROOF PLAN INDICATES LOCATION OF ICE/WATER BARRIER.
- HOLD STONE OFF GRADE MINIMUM OF 3".
- REFER TO MANUF. SPECIFICATIONS FOR STONE.
- GARAGE BUCK BOARD MATERIAL IS TO BE COMPOSITE WOOD AND SIZED TO COVER THE EDGE OF STONE.
- ALL BEAMS HOLDING UP PORCH ROOFS ARE TO BE DROPPED UNLESS OTHERWISE NOTED.

REVISION:	REV. DATE:
REVISED TO WORK WITH NEW TRUSS PLAN/LAYOUTS	1-29-21

DRAWING TITLE:
VANORNUM RESIDENCE
LOCATION: 21155 IVERSON AVENUE NORTH, FOREST LAKE, MN

ALL PLANS & DESIGNS SHOWN ARE THE PROPERTY OF LITTFIN DESIGN. USE OF THESE PLANS ON ANY OTHER PROJECT/LOT OTHER THAN NOTED ON THIS TITLEBLOCK WITHOUT THE WRITTEN CONSENT OF LITTFIN DESIGN IS PROHIBITED.

© COPYRIGHT 2021



LITTFINDESIGN.COM
MLITTFIN@HOTMAIL.COM
320-224-7844
WINSTED, MN

CURRENT DATE:
1-29-21

PAGE
A2

PAGE DESCRIPTION:
REAR & SIDE ELEVATION
SCALED PRINT @ 24X36

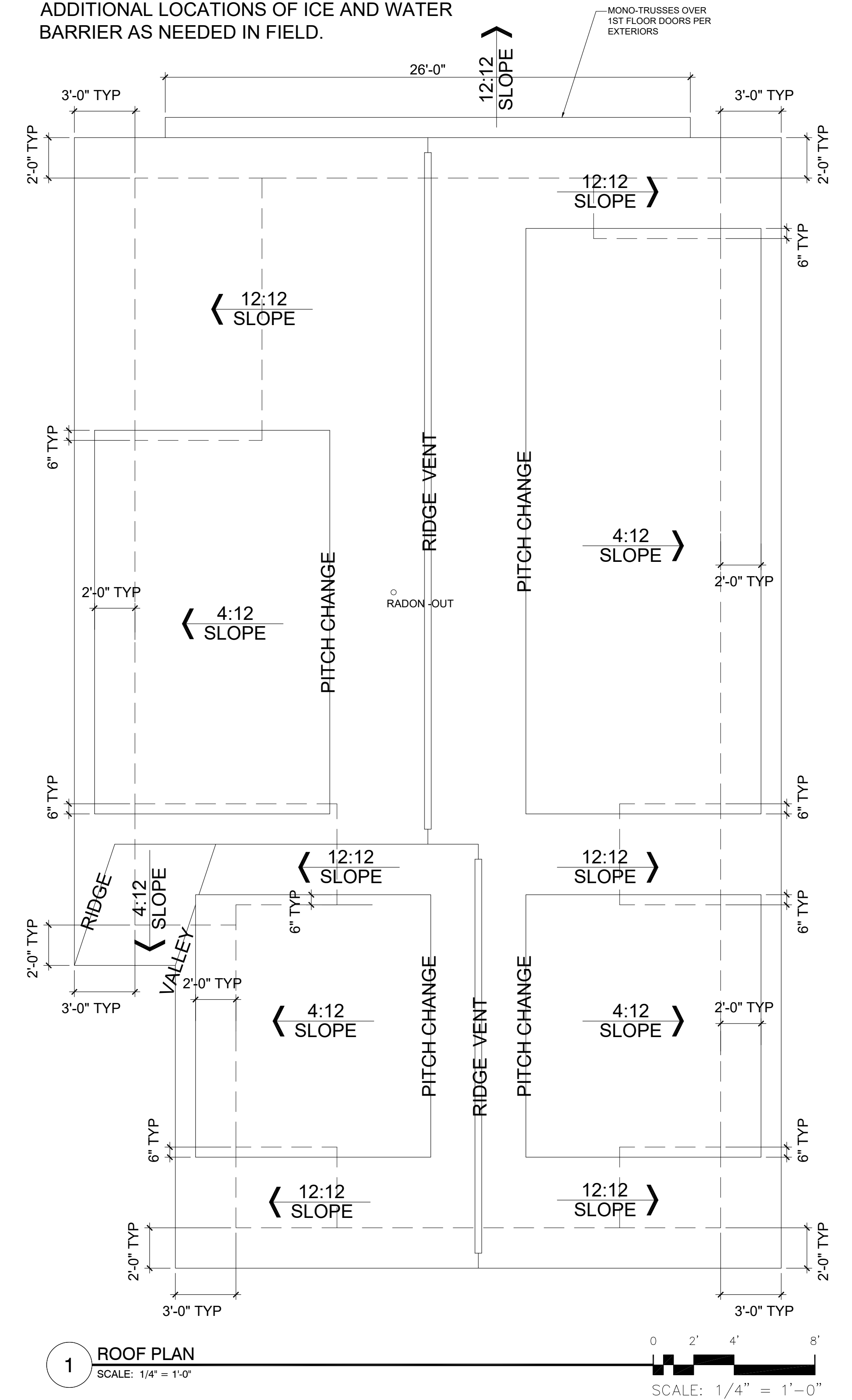
GENERAL EXTERIOR NOTES:

1. ALL EXT. TRIM TO BE FLASHED PER CODE.
2. SUPPLY DRIPCUPS ON ALL WINDOWS AND DOORS.
3. SUPPLY SEPARATION BETWEEN WOOD, COMPOSITE WOOD AND ANY OTHER WOOD MATERIAL PER SPECIFICATIONS.
4. SUPPLY AT LEAST 6" OF SPACE BETWEEN BOTTOMS OF WINDOWS AND ROOFS.
5. GRADE CONDITIONS MAY VARY ON SITE.
6. PROVIDE ROOF AND SOFFIT VENTS PER IRC CODE REGULATIONS.
7. ALL FURNACE FLUES, PLUMBING VENTS, FIREPLACE VENTS AND OTHER PENETRATIONS THROUGH ROOF OR WALLS TO EXTEND THROUGH REAR OF HOME WHENEVER POSSIBLE.
8. ALL PENETRATIONS THROUGH EXTERIOR WALLS OR ROOFING MUST BE SEALED AND FLASHED PER MANUF. SPECIFICATIONS AND IRC CODE REGULATIONS.

9. DOTTED AREA ON ROOF PLAN INDICATES LOCATION OF ICE/WATER BARRIER.
10. HOLD STONE OFF GRADE MINIMUM OF 3".
11. REFER TO MANUF. SPECIFICATIONS FOR STONE.
12. GARAGE BUCK BOARD MATERIAL IS TO BE COMPOSITE WOOD AND SIZED TO COVER THE EDGE OF STONE.
14. ALL BEAMS HOLDING UP PORCH ROOFS ARE TO BE DROPPED UNLESS OTHERWISE NOTED.

NOTE:

ICE AND WATER BARRIER @ BOTTOM 6" OF ALL ROOF LINES, EXTEND BARRIER MIN. 3' ON EACH SIDE OF VALLEY, COVER ENTIRE FACE OF ROOF SADDLES. VERIFY ADDITIONAL LOCATIONS OF ICE AND WATER BARRIER AS NEEDED IN FIELD.



REVISION:	REV. DATE:
REVISED TO WORK WITH NEW TRUSS PLAN/LAYOUTS	1-29-21

DRAWING TITLE: VANORNUM RESIDENCE
LOCATION: 21155 IVERSON AVENUE NORTH, FOREST LAKE, MN

ALL PLANS & DESIGNS SHOWN ARE THE PROPERTY OF LITTFIN DESIGN. USE OF THESE PLANS ON ANY OTHER PROJECT/LOT OTHER THAN NOTED ON THIS TITLEBLOCK WITHOUT THE WRITTEN CONSENT OF LITTFIN DESIGN IS PROHIBITED.
© COPYRIGHT 2021



LITTFINDESIGN.COM
MLITTFIN@HOTMAIL.COM
320-224-7844
WINSTED, MN

CURRENT DATE:
1-29-21

PAGE
A3
L ID

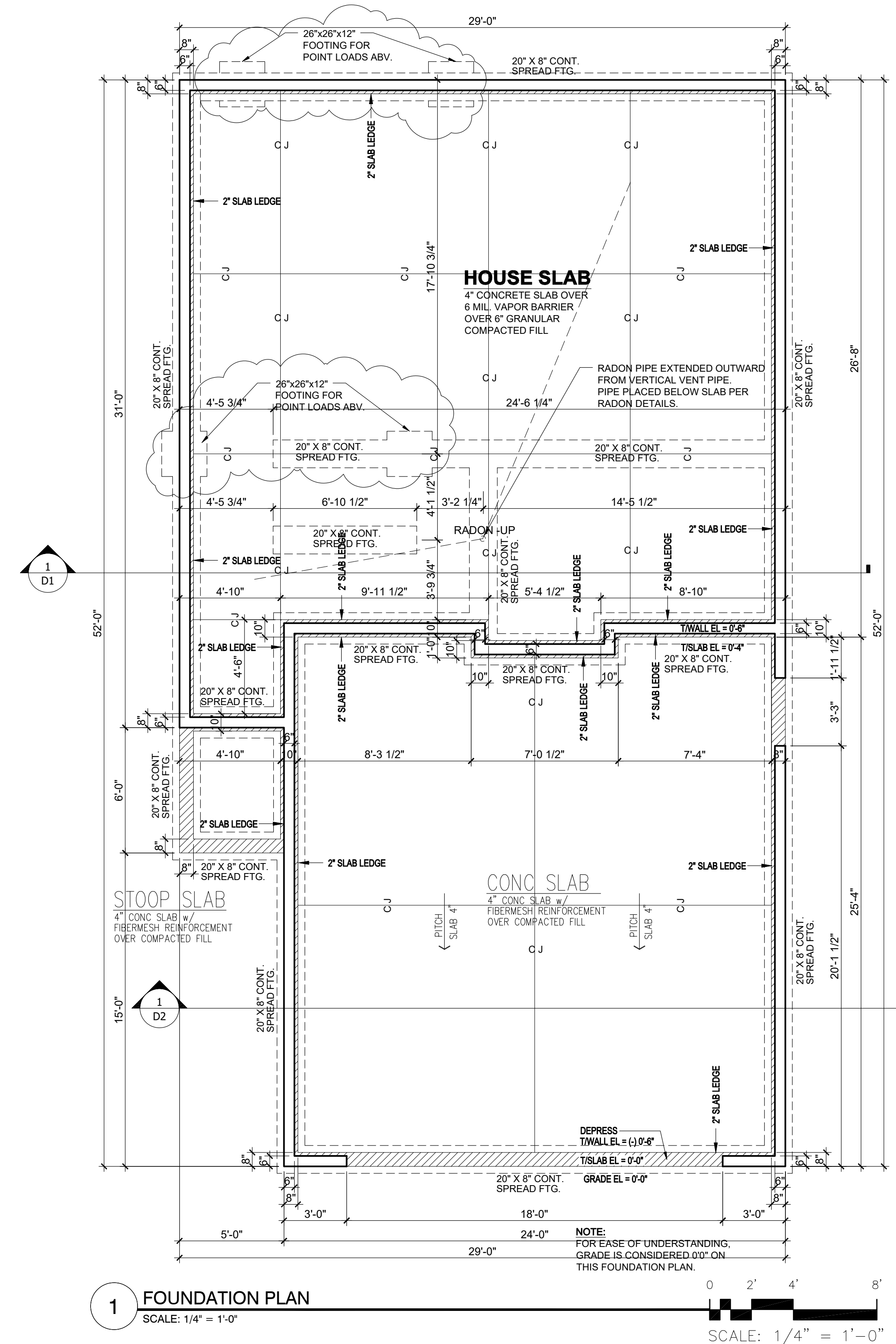
PAGE DESCRIPTION:
ROOF PLAN
SCALED PRINT @ 24X36

GENERAL FOUNDATION NOTES:

1. FOUNDATIONS TO BE POURED PER SITE SOIL CONDITION.
2. ALL REINFORCING IS TO BE INSTALLED PER IRC REGULATED STRUCTURAL DESIGN BY CONCRETE TRADES.
3. PROVIDE 1/2" ANCHOR BOLTS EMBEDDED 8" MIN., SPACED PER CODE AND 12" MAX FROM EACH END OF SILLPLATE, MIN 2 PER SILL.
4. PROVIDE CONTROL JOINTS PER PLAN, JOIST TO CONSIST OF HIDDEN ZIP STRIP EMBEDDED INTO THE SLABS.
5. ALL ANGLED WALLS ARE TO BE 45 DEGREES UNLESS NOTED OTHERWISE.
6. SLOPE CONCRETE TO FLOOR DRAINS WITHIN 5' OF DRAINS.
7. ALL WOOD MATERIAL CONTACTING DIRECTLY TO CONCRETE MUST BE TREATED OR DESIGNED TO CONTACT CONCRETE.
8. STEP FOOTINGS PER PLAN SPECIFICATIONS.
9. PROVIDE DRAINTILE AROUND PERIMETER AS SHOWN. LATERAL SOIL PRESSURE ASSUMED TO BE 30 PSF/FT.

-WINDOW & DOOR SIZE NOTES (EXAMPLES):

- SH3050 =SINGLE HUNG 3'0" BY 5'0"
- FX2646 = FIXED 2'6" BY 4'6"
- CASE3050 = CASEMENT 3'0" BY 5'0"
- 2868 @ DOOR =2'8" WIDE BY 6'8" TALL
- 2880 @ DOOR =2'8" WIDE BY 8'0" TALL



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

SCALE: 1/4" = 1'-0"

REVISION:	REV. DATE:
REVISED TO WORK WITH NEW TRUSS PLAN/LAYOUTS	1-29-21

DRAWING TITLE: VANORNUM RESIDENCE
LOCATION: 21155 IVERSON AVENUE NORTH, FOREST LAKE, MN

ALL PLANS & DESIGNS SHOWN ARE THE PROPERTY OF LITTFIN DESIGN. USE OF THESE PLANS ON ANY OTHER PROJECT/LOT OTHER THAN NOTED ON THIS TITLEBLOCK WITHOUT THE WRITTEN CONSENT OF LITTFIN DESIGN IS PROHIBITED.
© COPYRIGHT 2021

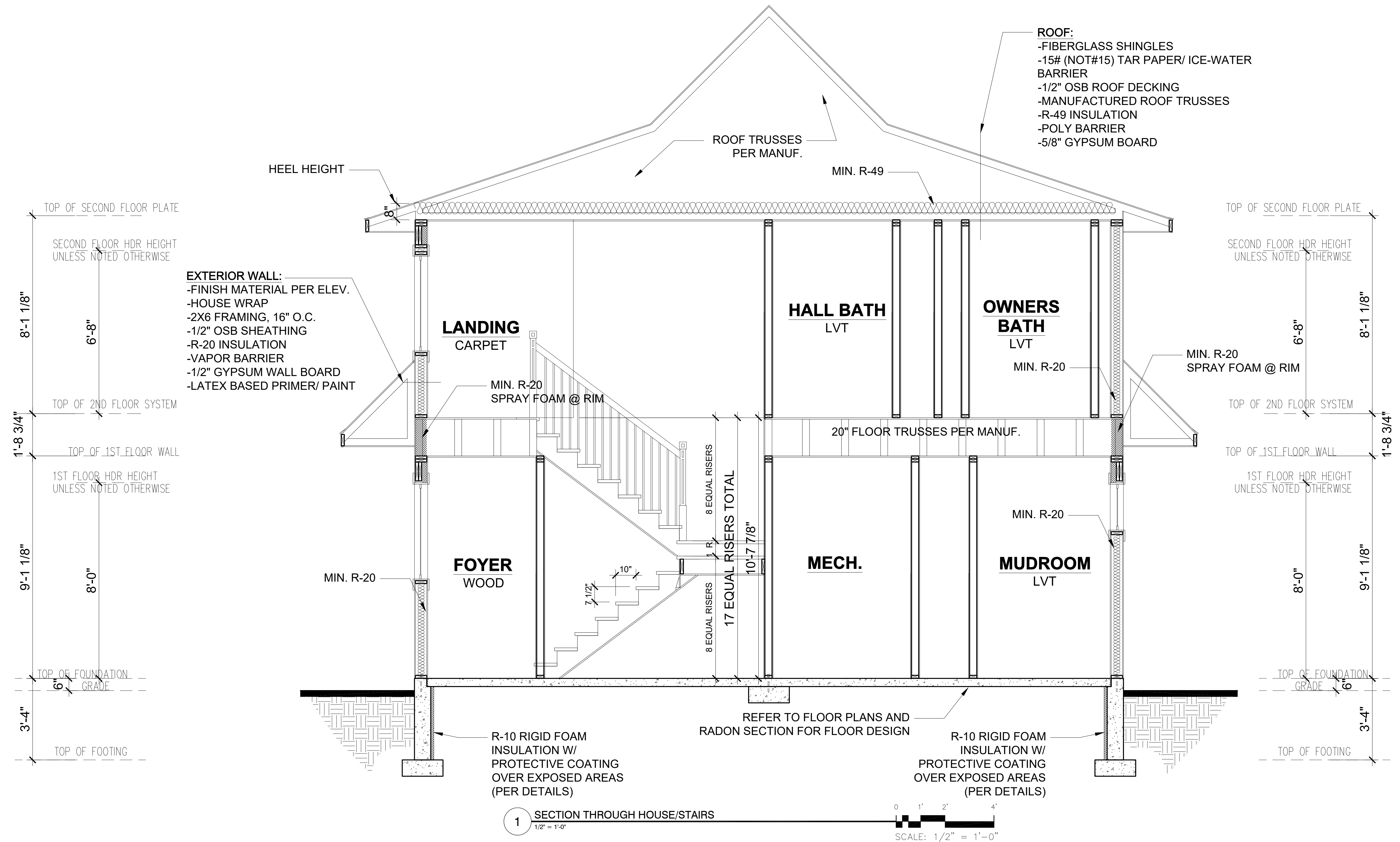


LITTFINDESIGN.COM
MLITTFIN@HOTMAIL.COM
320-224-7844
WINSTED, MN

CURRENT DATE:
1-29-21

PAGE
L A4 D

PAGE DESCRIPTION:
FOUNDATION PLAN
SCALED PRINT @ 24X36



REVISION:	REV. DATE:
REVISED TO WORK WITH NEW TRUSS PLAN/LAYOUTS	1-29-21

DRAWING TITLE:
VANORNUM RESIDENCE

LOCATION:
 21155 IVERSON AVENUE NORTH, FOREST LAKE, MN

ALL PLANS & DESIGNS SHOWN ARE THE PROPERTY OF LITTFIN DESIGN. USE OF THESE PLANS ON ANY OTHER PROJECT/LOT OTHER THAN NOTED ON THIS TITLEBLOCK WITHOUT THE WRITTEN CONSENT OF LITTFIN DESIGN IS PROHIBITED.

© COPYRIGHT 2021

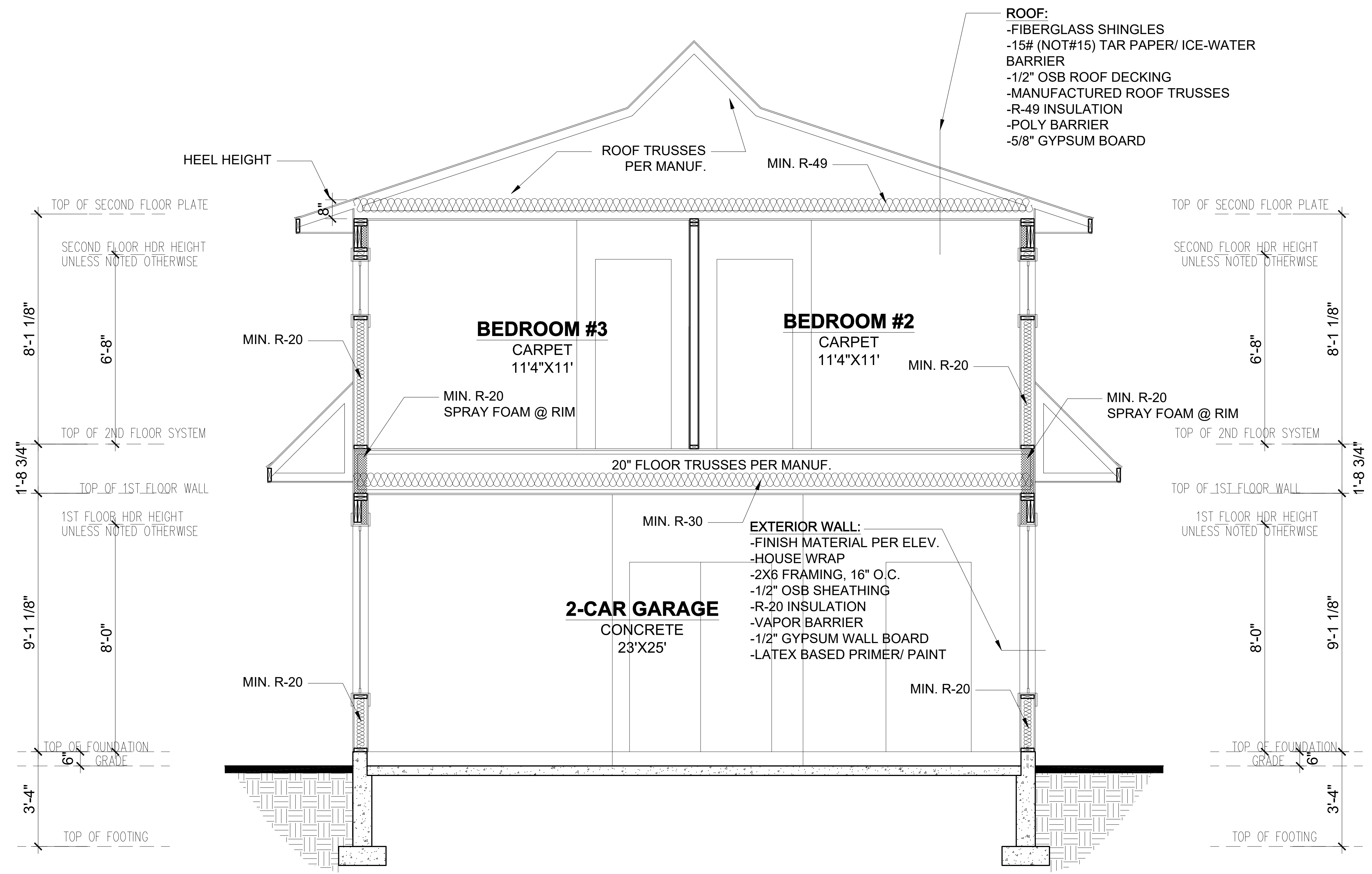


LITTFINDESIGN.COM
 MLITTFIN@HOTMAIL.COM
 320-224-7844
 WINSTED, MN

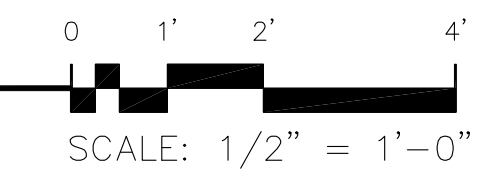
CURRENT DATE:
 1-29-21

PAGE:
 D1

PAGE DESCRIPTION:
 BUILDING SECTIONS
 SCALED PRINT @ 24X36



1 SECTION THROUGH HOUSE/GARAGE
1/2" = 1'-0"



REVISION:	REV. DATE:
REVISED TO WORK WITH NEW TRUSS PLAN/LAYOUTS	1-29-21

DRAWING TITLE: <h2 style="text-align: center;">VANORNUM RESIDENCE</h2> LOCATION: 21155 IVERSON AVENUE NORTH, FOREST LAKE, MN
--

ALL PLANS & DESIGNS SHOWN ARE THE PROPERTY OF LITTFIN DESIGN. USE OF THESE PLANS ON ANY OTHER PROJECT/LOT OTHER THAN NOTED ON THIS TITLEBLOCK WITHOUT THE WRITTEN CONSENT OF LITTFIN DESIGN IS PROHIBITED.

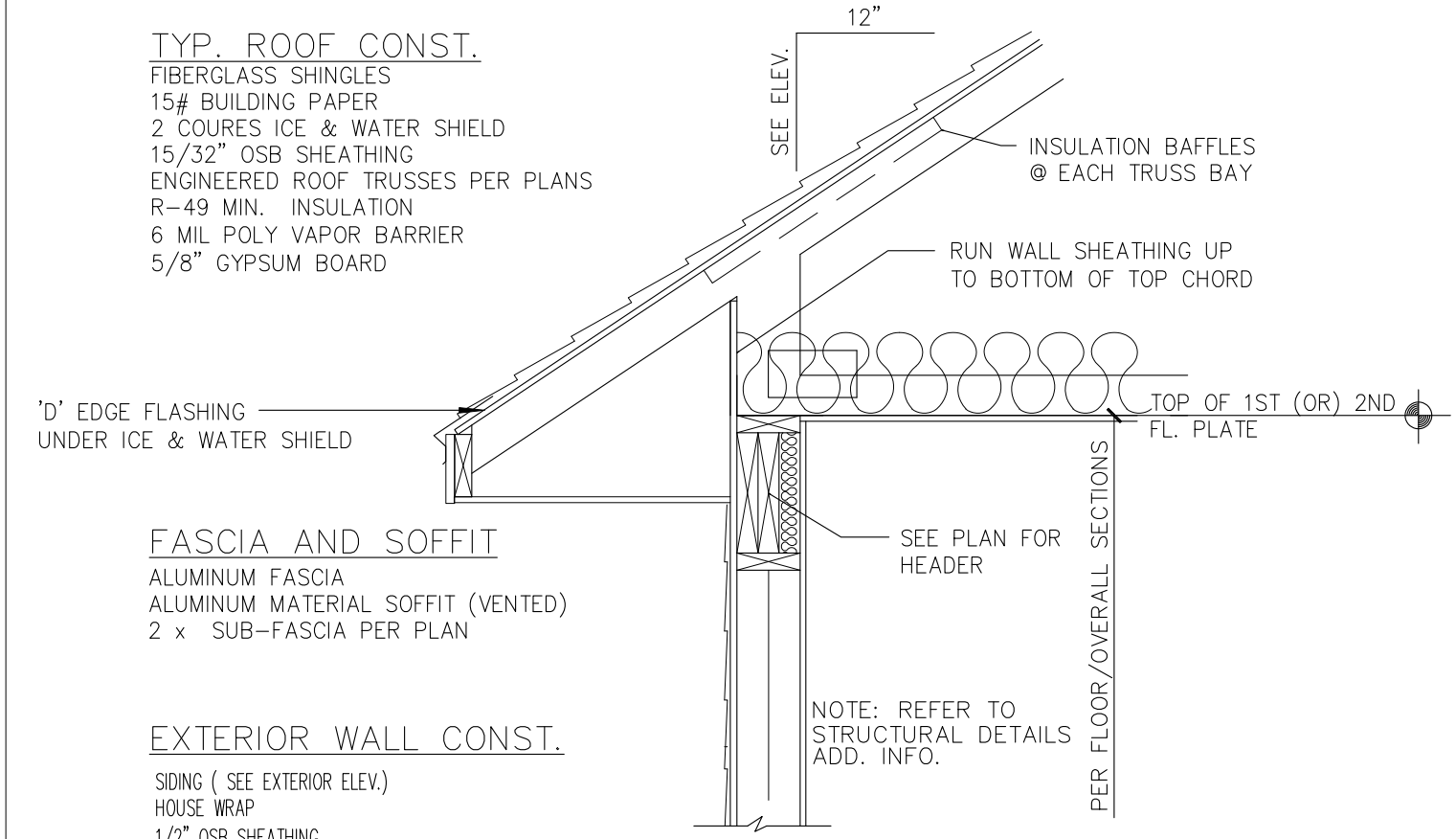
© COPYRIGHT 2021



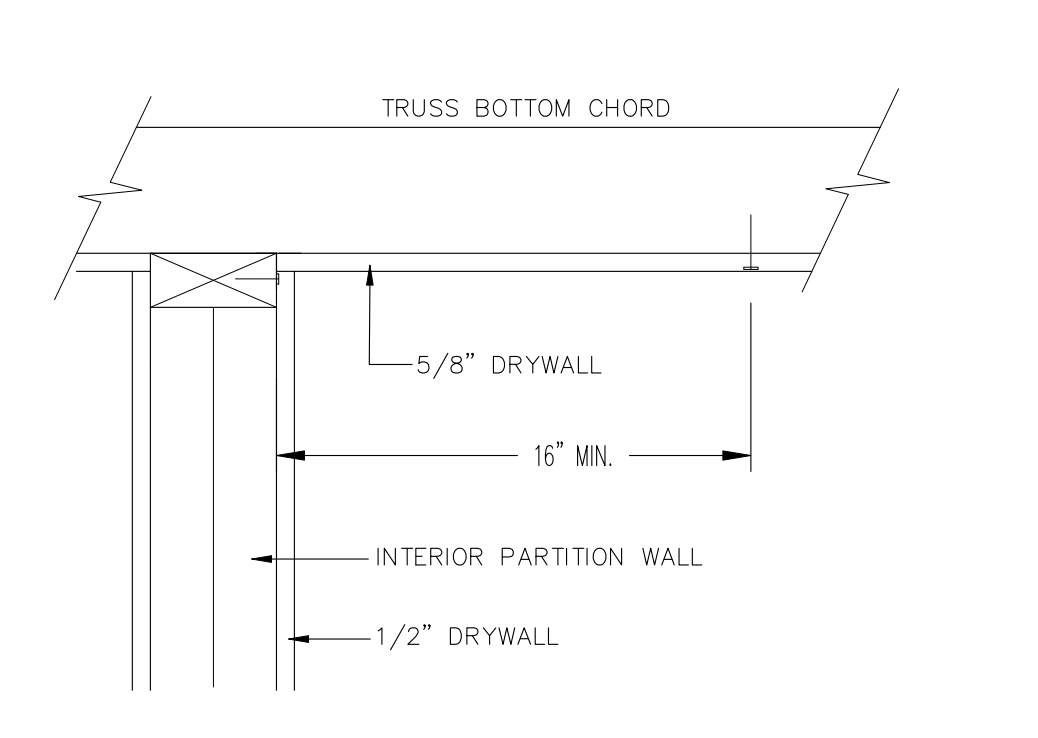
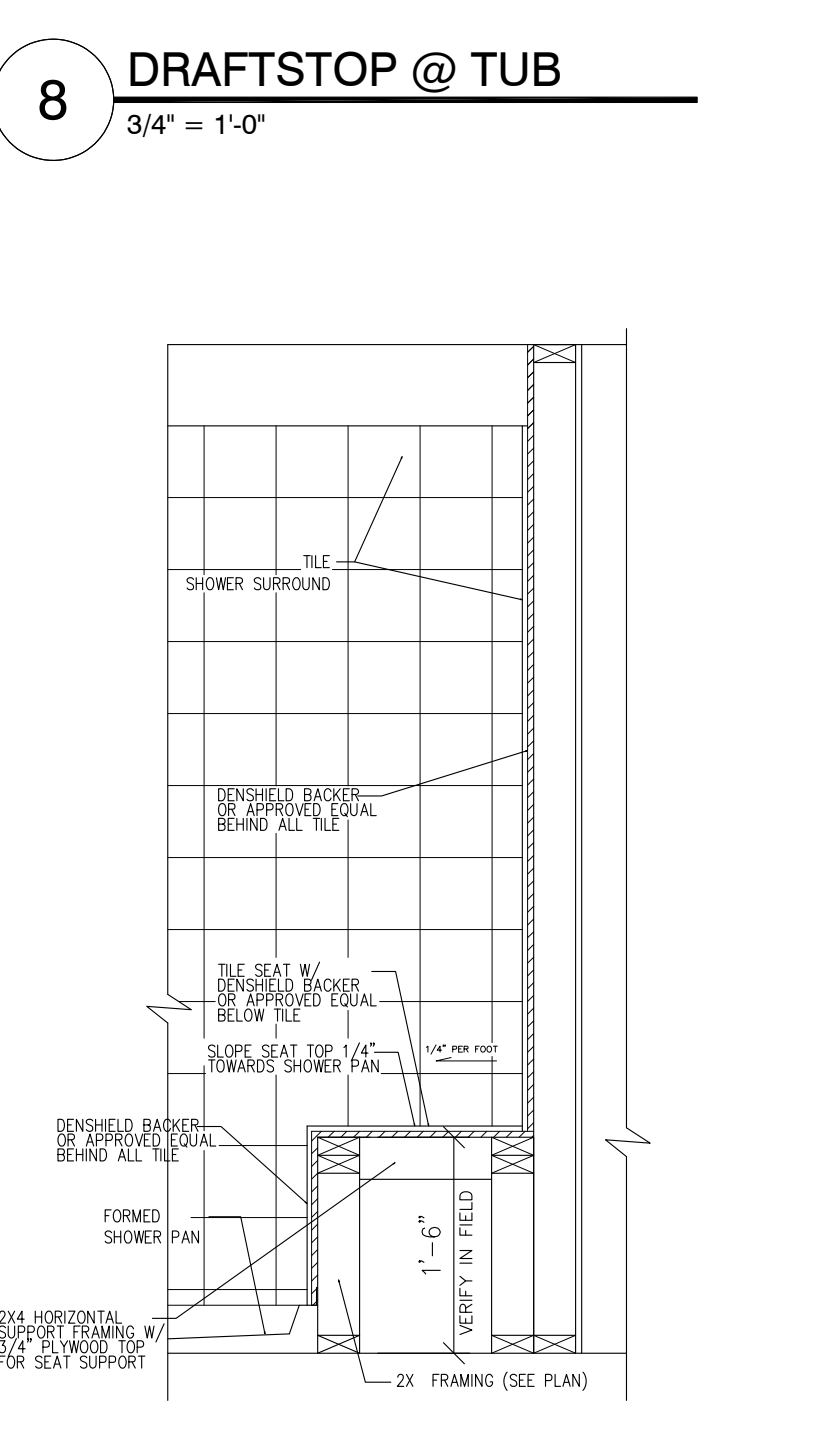
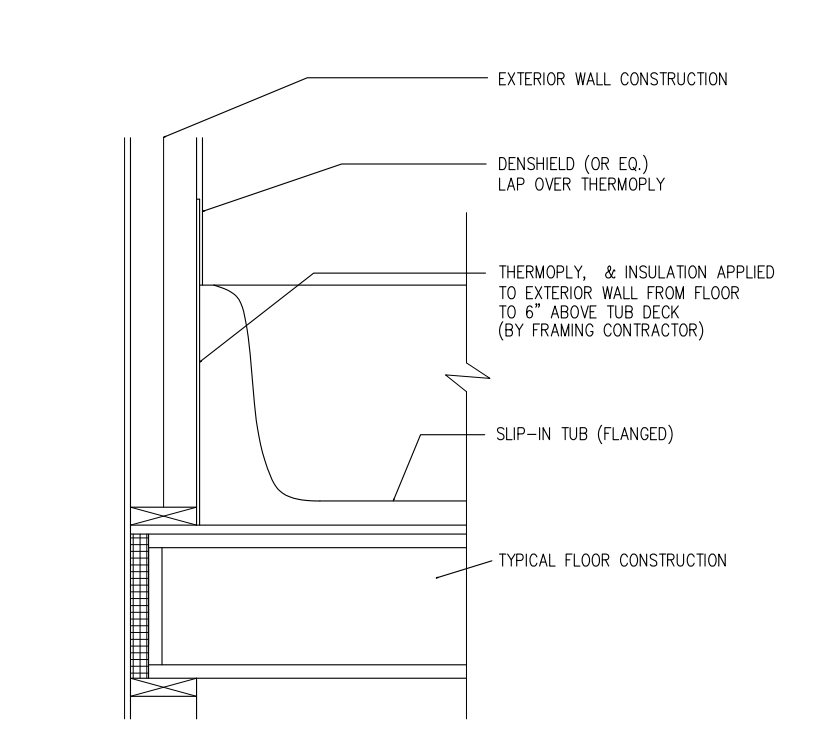
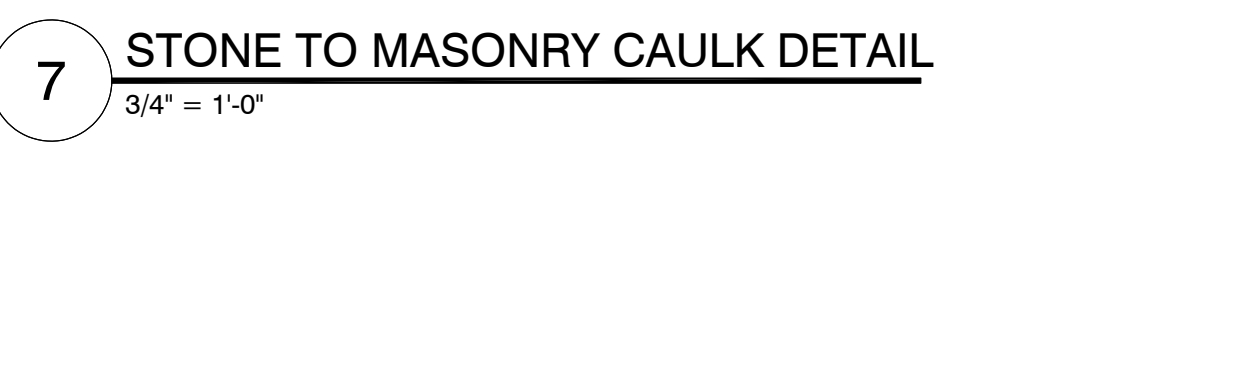
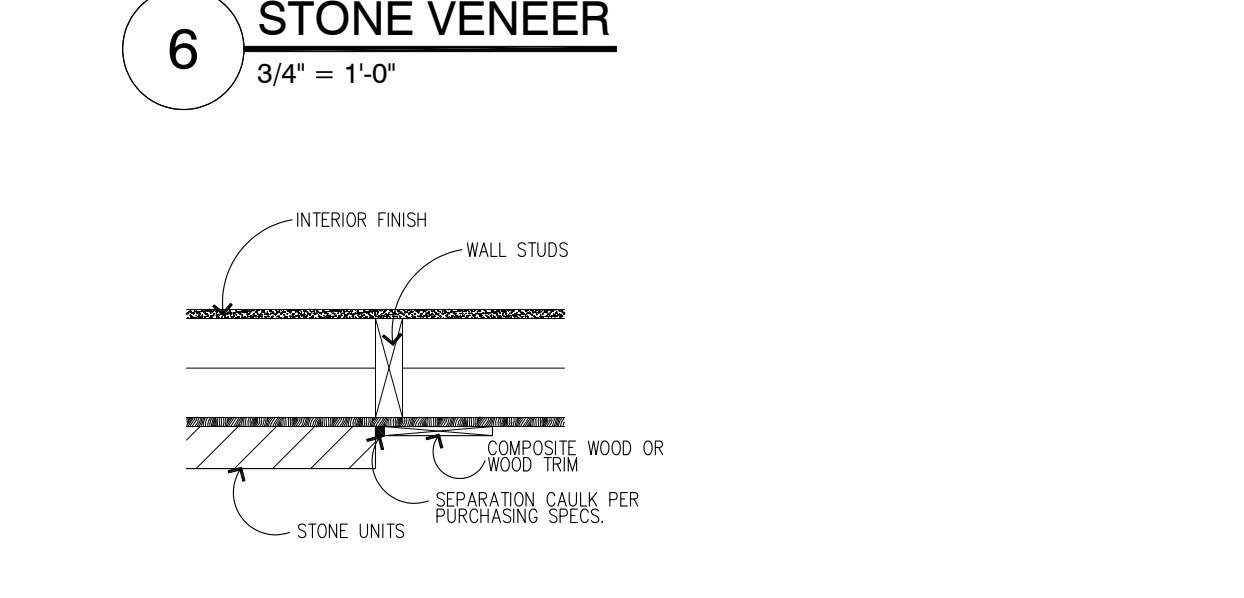
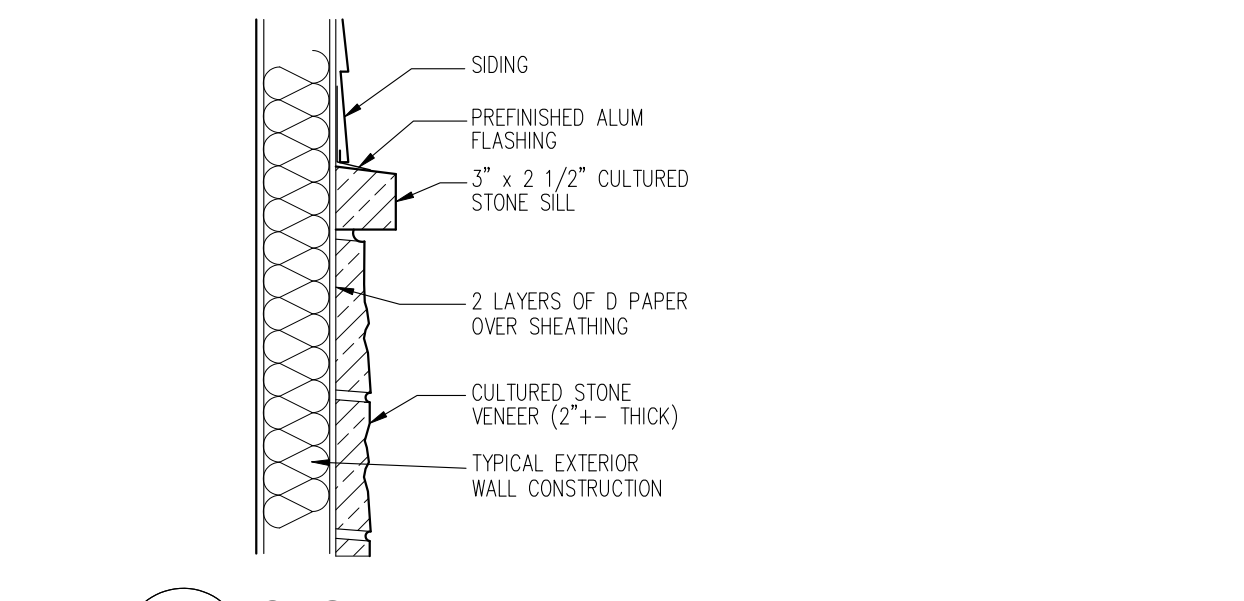
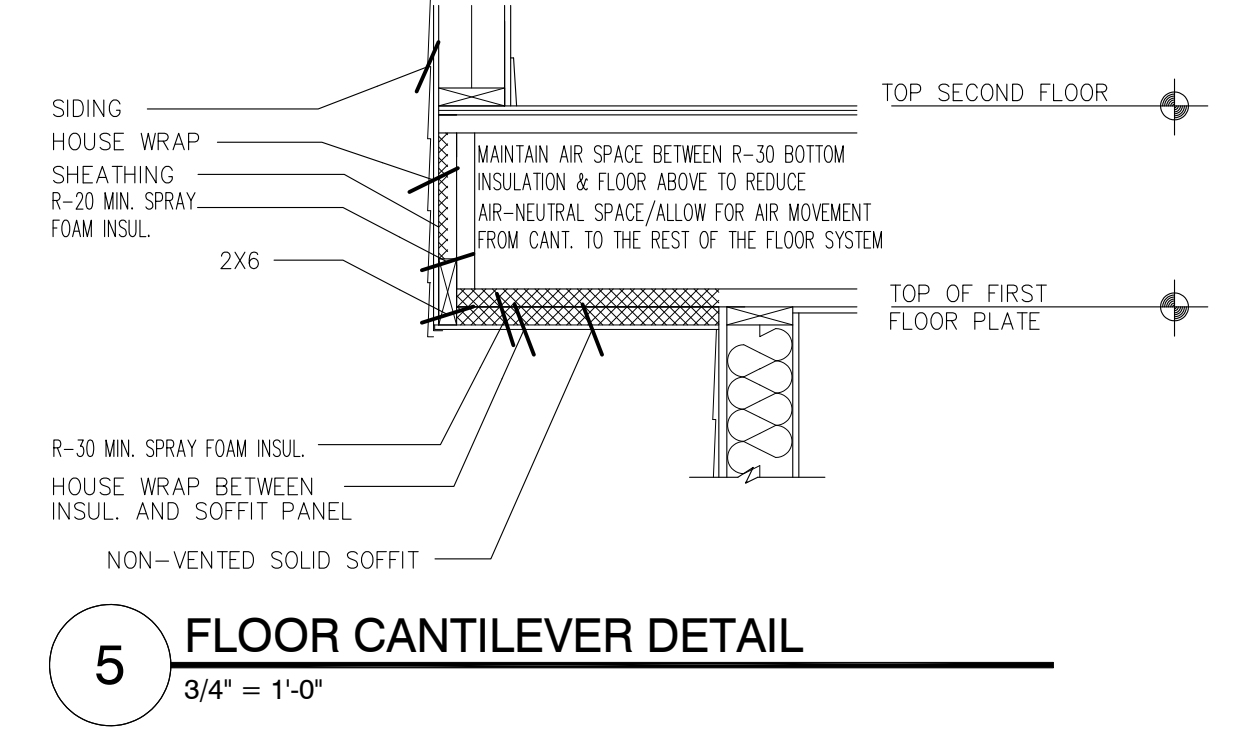
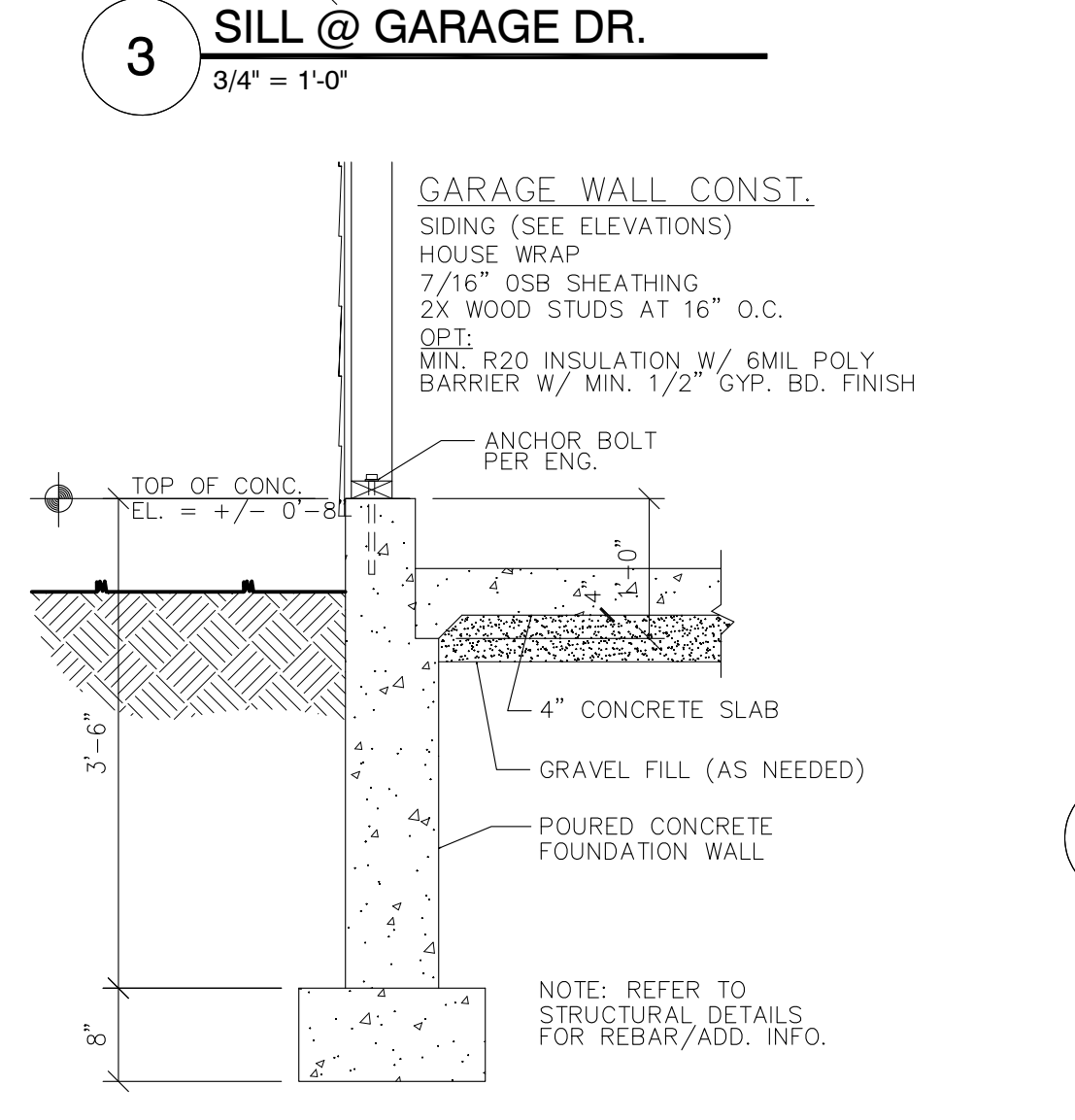
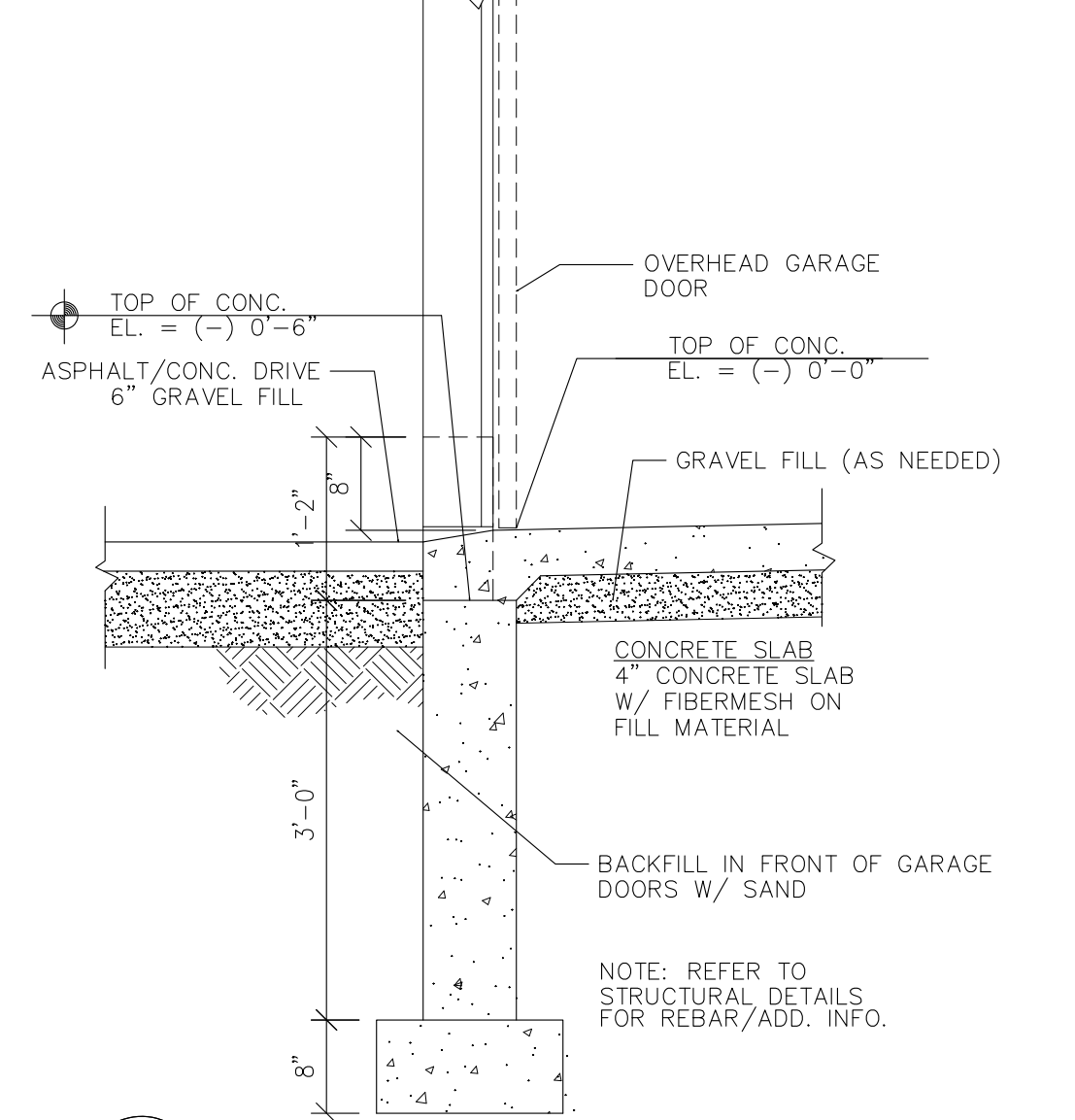
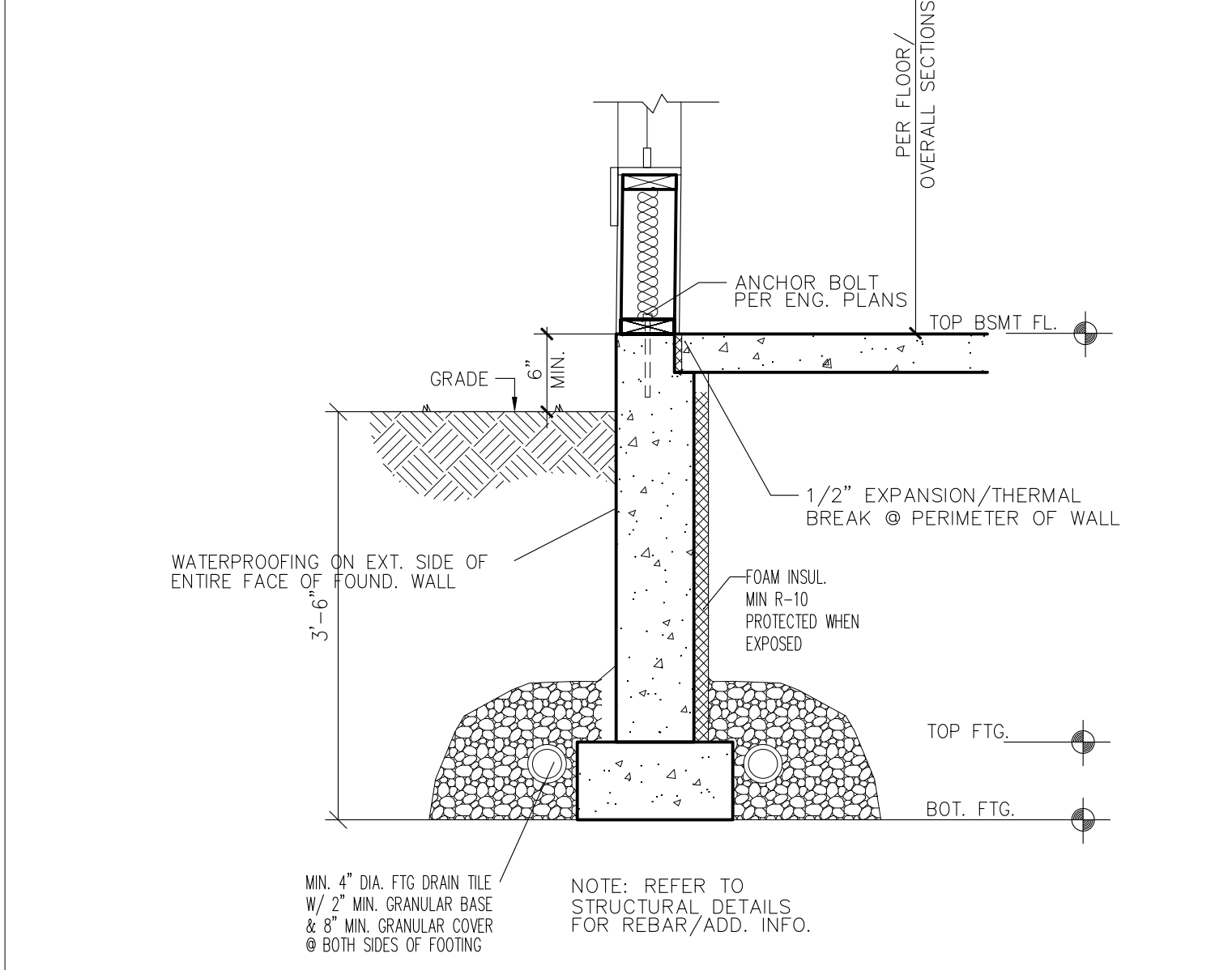
LITTFINDESIGN.COM
 MLITTFIN@HOTMAIL.COM
 320-224-7844
 WINSTED, MN

CURRENT DATE:
1-29-21

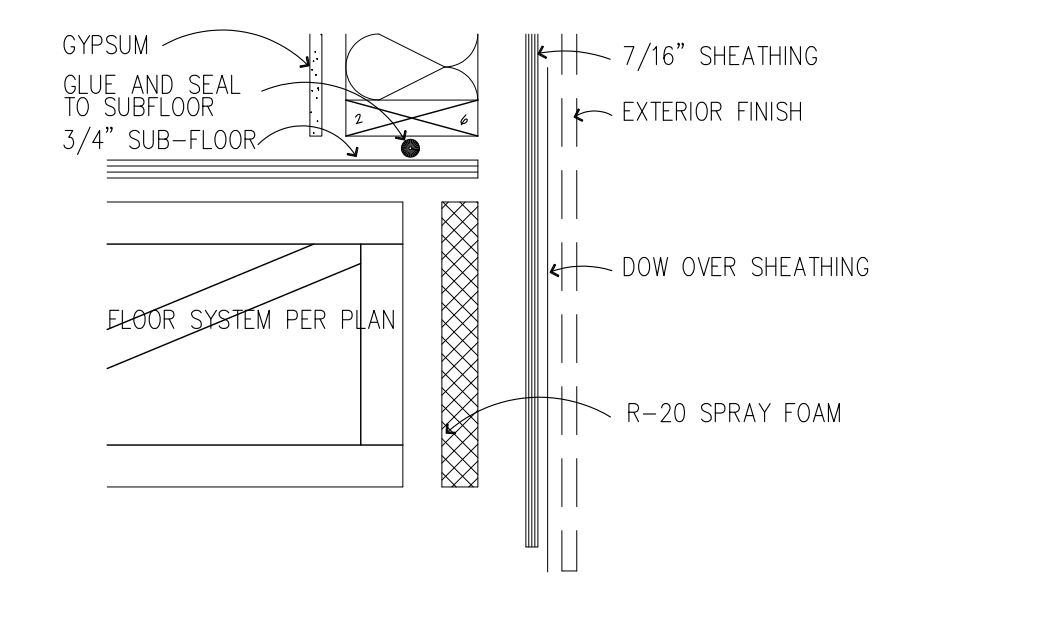
PAGE
D2
PAGE DESCRIPTION:
BUILDING SECTIONS
SCALED PRINT @ 24X36



1 TYP. WALL SECTION @ EAVE
 3/4" = 1'-0"



- GLUE AND SEAL THE SUBFLOOR AND PLATES @ EXTERIOR JOINTS.
- POLY AND SEAL BEHIND ALL WALL, SOFFIT, TIES, AND FIREPLACES WHEN THEY MEET AN EXTERIOR WALL.
- TAPE AND SEAL THE INTERIOR VAPOR BARRIER.
- HOUSEWRAP @ RIMS, CORNERS, AND CANTILEVERS SEAMS AND EXTERIOR OPENINGS.
- LESCO ELECTRICAL BOXES TO BE TAPED AND FOAMED.
- WINDOW AND DOOR ROUGH OPENINGS TO BE SEALED WITH FOAM.
- DUCT WORK TO BE TAPED (SUPPLIES AND RETURNS).
- MECHANICAL VENTILATION SYSTEM.
- DIRECT VENT FURNACE AND POWER VENTED WATER HEATER.
- BACK CAULK ALL WINDOW FLANGES AND THEN TAPE A STRIP OF TYVEC OVER THE TOP.
- ALL VENDORS MUST SEAL THEIR EXTERIOR PENETRATIONS (INCLUDING PLUMBING, HEATING, AND ELECTRICAL).
- CAULK SEAL ALL INTERIOR AND EXTERIOR VERTICAL JOINTS WHERE WALL PANELS MEET OR WALL PANELS MEET THE FND. WALL.



REVISION:	REV. DATE:
REVISED TO WORK WITH NEW TRUSS PLAN/LAYOUTS	1-29-21

DRAWING TITLE:
VANORNUM RESIDENCE

LOCATION:
 21155 IVERSON AVENUE NORTH, FOREST LAKE, MN

ALL PLANS & DESIGNS SHOWN ARE THE PROPERTY OF LITTFIN DESIGN. USE OF THESE PLANS ON ANY OTHER PROJECT/LOT OTHER THAN NOTED ON THIS TITLEBLOCK WITHOUT THE WRITTEN CONSENT OF LITTFIN DESIGN IS PROHIBITED.

© COPYRIGHT 2021



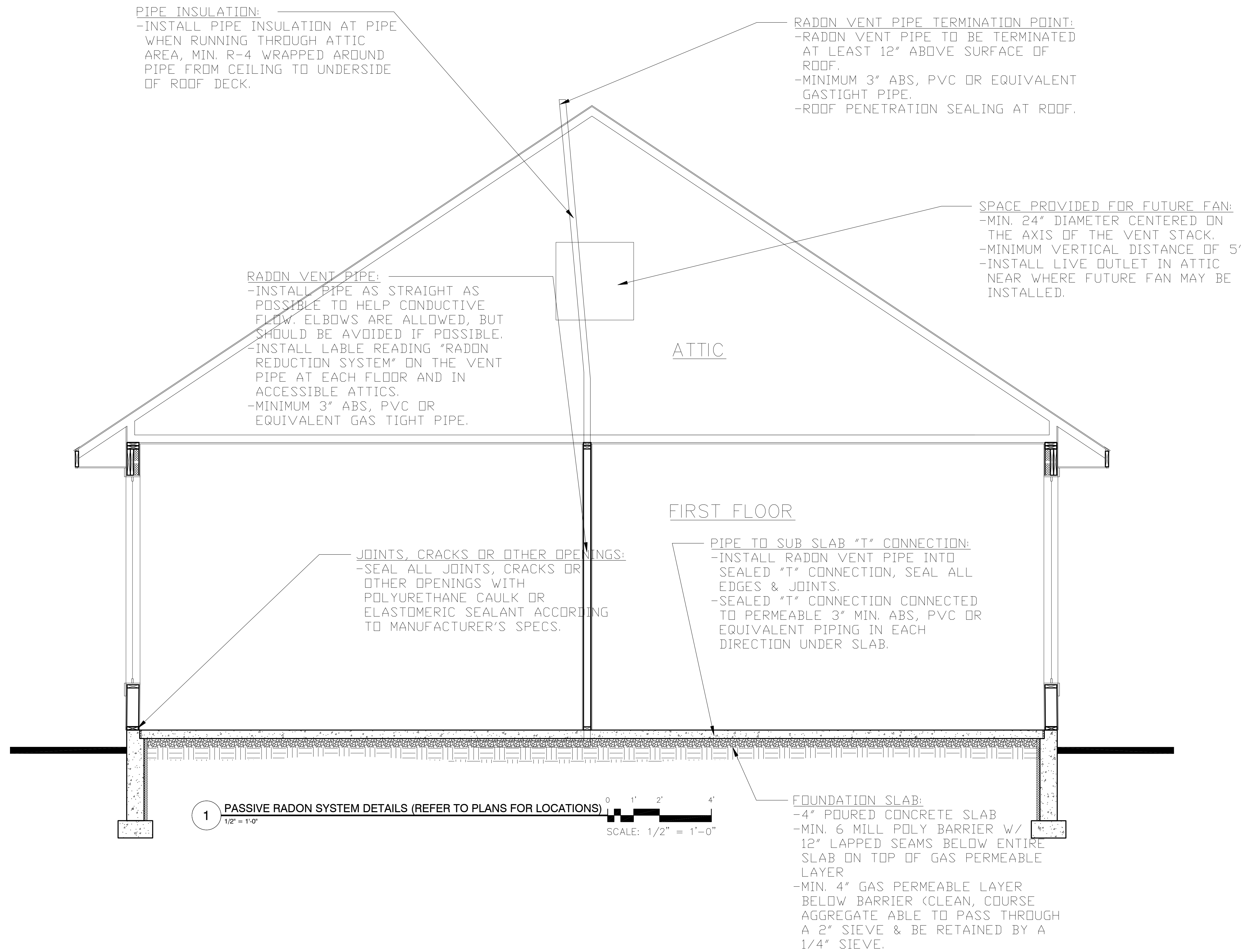
LITTFINDESIGN.COM
 MLITTFIN@HOTMAIL.COM
 320-224-7844
 WINSTED, MN

CURRENT DATE:
 1-29-21

PAGE
 L D3 L D

PAGE DESCRIPTION:
 DETAILS

SCALED PRINT @ 24X36



REVISION:	REV. DATE:
REVISED TO WORK WITH NEW TRUSS PLAN/LAYOUTS	1-29-21

DRAWING TITLE:
VANORNUM RESIDENCE
LOCATION:
21155 IVERSON AVENUE NORTH, FOREST LAKE, MN

ALL PLANS & DESIGNS SHOWN ARE THE PROPERTY OF LITTFIN DESIGN. USE OF THESE PLANS ON ANY OTHER PROJECT/LOT OTHER THAN NOTED ON THIS TITLEBLOCK WITHOUT THE WRITTEN CONSENT OF LITTFIN DESIGN IS PROHIBITED.

© COPYRIGHT 2021



LITTFINDESIGN.COM
 MLITTFIN@HOTMAIL.COM
 320-224-7844
 WINSTED, MN

CURRENT DATE:
1-29-21

PAGE
L R1 D

PAGE DESCRIPTION:
RADON DETAILS
SCALED PRINT @ 24X36

BRACED WALL NOTES:

1. ALL WALLS DESIGNED PER METHOD CS-WSP OF THE 2020 MN CODE.
2. ALL EXTERIOR WALLS ARE TO BE CONTINUOUSLY SHEATHED WITH A MINIMUM 3/8" THICK WOOD PANEL.
3. CONNECTION OF WOOD PANEL TO STUDS SHALL BE MIN. 8d COMMON NAILS, 6" O.C. AT EDGES & 12" O.C. AT FIELD OF WOOD PANEL.
4. STRUCTURAL PANELS (BRACED WALLS) SHALL BE LOCATED AT EACH END & AT LEAST EVERY 20' BETWEEN PANELS.
5. EXTERIOR BRACED WALL LINES SHALL HAVE A BRACED WALL PANEL AT EACH END OF THE BRACED WALL LINE, EXCEPT FOR:
 - BRACED WALL PANELS ARE PERMITTED TO BEGIN NO MORE THAN 10' FROM EACH END OF THE BRACED WALL LINE PROVIDED THAT A 24" PANEL MATCHING TABLE R602.10.7 IS APPLIED.
 - THE END OF EACH BRACED WALL PANEL CLOSEST TO THE CORNER SHALL HAVE A TIE-DOWN DEVICE FASTENED TO THE STUD AT THE EDGE OF THE BRACED WALL PANEL CLOSEST TO THE CORNER AND TO THE FOUNDATION OR FRAMING BELOW. THE TIE-DOWN DEVICE SHALL BE CAPABLE OF PROVIDING AN UPLIFT ALLOWABLE DESIGN VALUE OF AT LEAST 1800 LBS. THE TIE-DOWN DEVICE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

6. INTERIOR BRACED WALL LINES SHALL BE DESIGNED/BUILT PER INTERMITTENT METHOD "GB".

- MINIMUM 1/2" GYPSUM BOARD APPLIED TO EACH SIDE OF 2X4 (OR) 2X6 STUD WALL @ 16" O.C. SPACING OF STUDS W/ DOUBLE TOP PLATE AND SINGLE BTM.
- ATTACH GYPSUM TO STUDS W/ 1-1/4" SCREWS (TYPE W OR S), 7" O.C. AT EDGE & 7" O.C. AT FIELD.
- ALL GYPSUM BOARD JOINTS TO BE SOLID BLOCKED W/ 2X MATERIAL

7. (PERPENDICULAR WALL/FLOOR) ALL FLOOR SYSTEMS BETWEEN BRACED WALL PANELS TO HAVE A MIN. 2X4 TOP & BOTTOM BLOCKING BOARD PARALLEL TO BRACED WALL PANELS W/ MIN. (3)16d NAILS ATTACHING BOTTOM/TOP OF BRACED PANEL PLATE TO FLOOR SYSTEM AT BRACED PANEL WIDTH ONLY. 2X4 BLOCKING TO BE SET BETWEEN FLOOR SYSTEM MEMBERS. SOLID RIM MAY BE USED (FIG. 5 & 6).
8. (PERPENDICULAR WALL/ROOF) APPLY 2X SOLID BLOCKING BETWEEN ROOF SYSTEM MEMBERS OVER BRACED WALL PANELS W/ 8d NAILS AT 6" O.C. ALONG LENGTH OF BRACED WALL PANELS WHEN HEEL IS 15.25' OR LESS (FIGURE 3, REFER TO FIG. #4 WHEN OVER 15.25').

9. NOTE: NOTES 7 & 8 ABOVE APPLY TO PERPENDICULAR FRAMING, WHEN PARALLEL FLOORS/ROOF SYSTEMS ARE PRESENT, THE FLOOR/ROOF SYSTEM IS TO HAVE BLOCKING MATERIAL ALLOWING FOR NAILING OF BRACED WALL PANEL INTO SYSTEM ABOVE/BELOW SAID WALL (FIGURE 6).

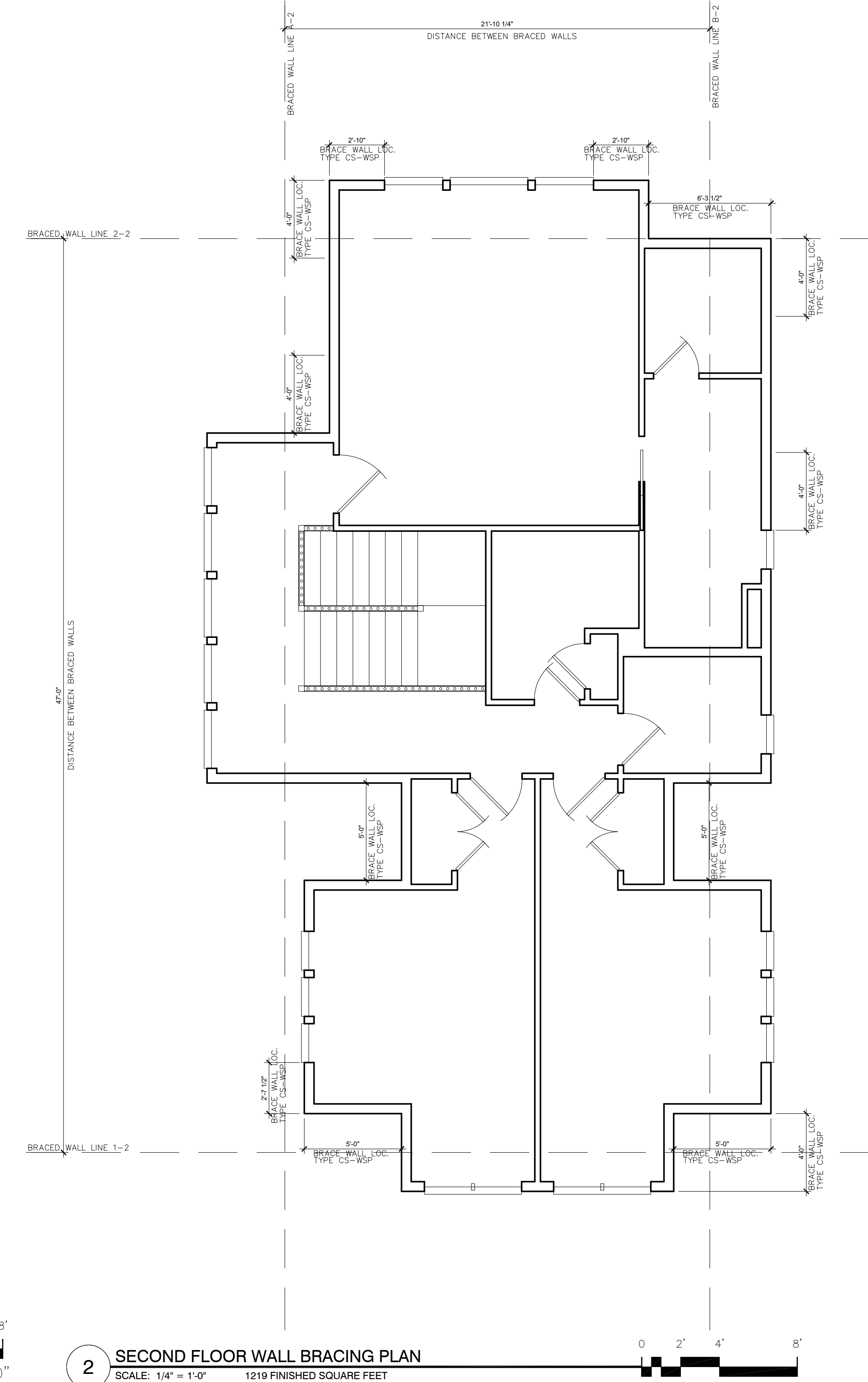
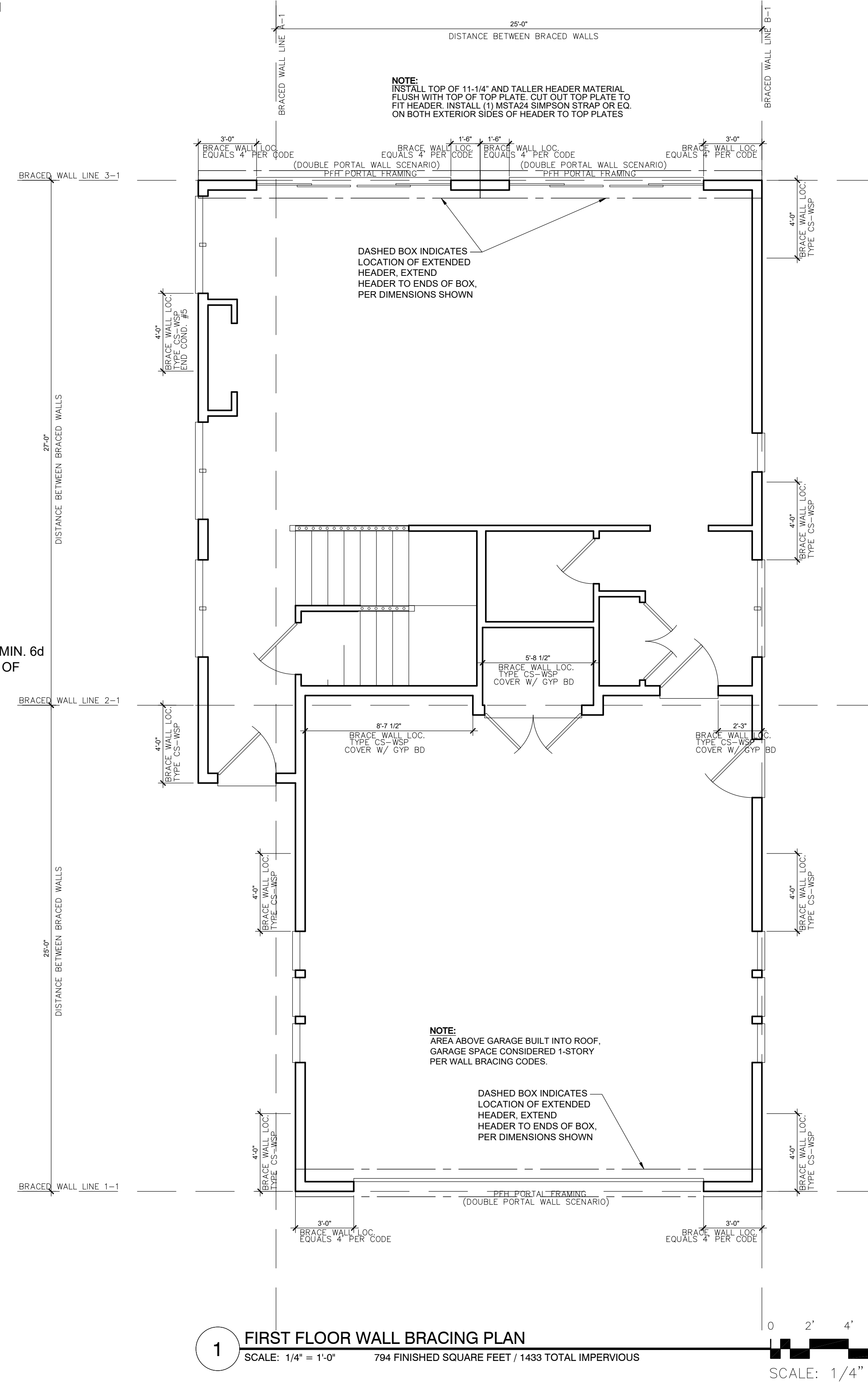
BRACED WALL PANEL UPLIFT LOAD PATH:

1. BRACED WALL PANELS LOCATED AT EXTERIOR WALLS THAT SUPPORT ROOF RAFTERS OR TRUSSES (INCLUDING STORIES BELOW TOP STORY) SHALL HAVE THE FRAMING MEMBERS CONNECTED IN ACCORDANCE WITH:
 - WHERE THE NET UPLIFT VALUE AT THE TOP OF A WALL EXCEEDS 100 PLF, INSTALLING APPROVED UPLIFT FRAMING CONNECTORS TO PROVIDE A CONTINUOUS LOAD PATH FROM THE TOP OF THE WALL TO THE FOUNDATION OR TO A POINT WHERE THE UPLIFT FORCE IS 100 PLF OR LESS. THE NET UPLIFT VALUE SHALL BE AS DETERMINED BY ONE OF THE FOLLOWING:

- 1.1 THE BASIC WIND SPEED DOES NOT EXCEED 115 MPH, THE WIND EXPOSURE CATEGORY IS B, THE ROOF PITCH IS 5:12 OR GREATER, AND THE ROOF SPAN IS 32' OR LESS
 - (OR)
 - 1.2 THE NET UPLIFT VALUE AT THE TOP OF A WALL DOES NOT EXCEED 100 PLF. THE NET UPLIFT VALUE SHALL BE DETERMINED IN ACCORDANCE WITH SECTION R802.11 AND SHALL BE PERMITTED TO BE REDUCED BY 60 PLF FOR EACH FULL WALL ABOVE.
2. WHERE THE UPLIFT FORCE DOES NOT EXCEED 200 POUNDS, RAFTERS AND TRUSSES SPACED NOT MORE THAN 24 INCHES ON CENTER SHALL BE PERMITTED TO BE ATTACHED TO THEIR SUPPORTING WALL ASSEMBLIES IN ACCORDANCE WITH TABLE R602.3(1)

- RAFTERS OR ROOF TRUSS TO PLATE, TOE NAIL:
 - MINIMUM (3) 16d BOX NAILS OR (3) 10d COMMON NAILS. (2) TOE NAILS ON ON EISDE AND (1) TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS. (MANUF. METAL CONNECTOR MAY BE SUBSTITUED, VERIFY W/ MANUF. DETAILS).

- WALL PANEL TO STUDS:
 - CONNECTION OF WOOD PANEL TO STUDS SHALL BE MIN. 6d COMMON NAILS, 6" O.C. AT EDGES & 12" O.C. AT FIELD OF WOOD PANEL.



REVISION:	REV. DATE:
REVISED TO WORK WITH NEW TRUSS PLAN/LAYOUTS	1-29-21

DRAWING TITLE: VANORNUM RESIDENCE
LOCATION: 21155 IVERSON AVENUE NORTH, FOREST LAKE, MN

ALL PLANS & DESIGNS SHOWN ARE THE PROPERTY OF LITTFIN DESIGN. USE OF THESE PLANS ON ANY OTHER PROJECT/LOT OTHER THAN NOTED ON THIS TITLEBLOCK WITHOUT THE WRITTEN CONSENT OF LITTFIN DESIGN IS PROHIBITED.
© COPYRIGHT 2021

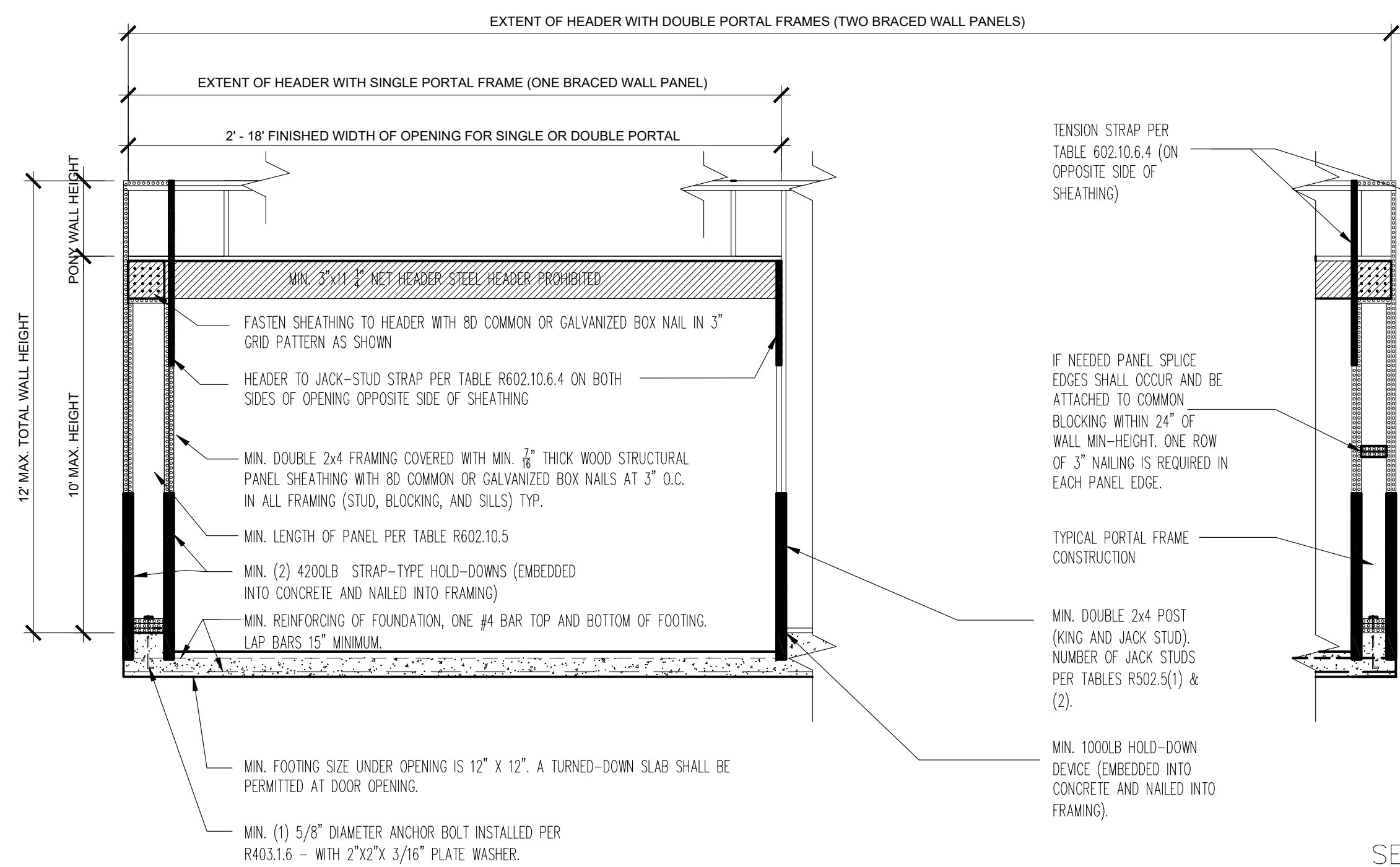


LITTFINDESIGN.COM
MLITTFIN@HOTMAIL.COM
320-224-7844
WINSTED, MN

CURRENT DATE: 1-29-21

PAGE S1

PAGE DESCRIPTION: WALL BRACING PLANS
SCALED PRINT @ 24X36

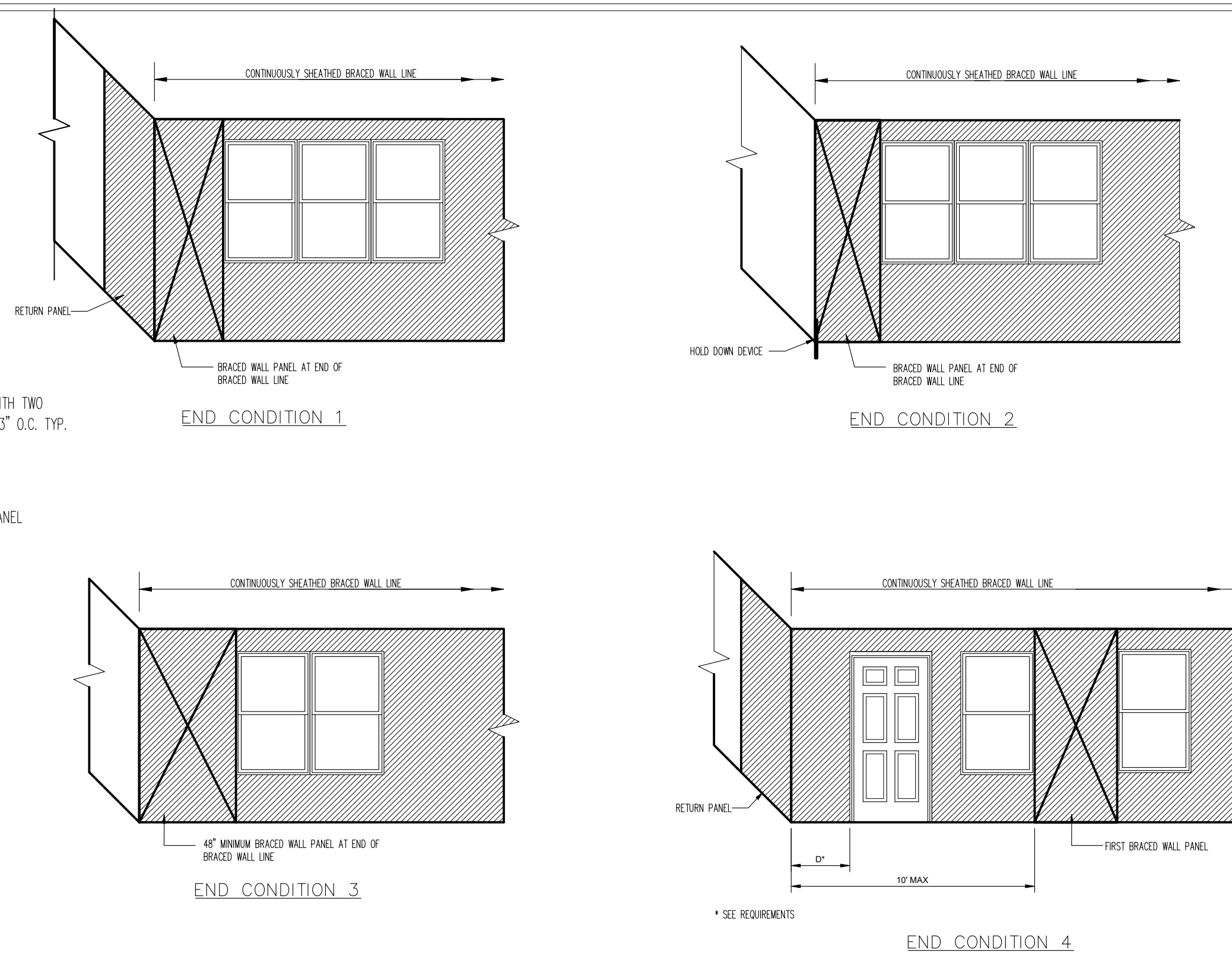


FRONT ELEVATION

SECTION

FOR S: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

FIGURE BRACED WALL PANEL 2
METHOD PFH-PORTAL FRAME PANEL WITH HOLD-DOWNS



FOR S: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

FIGURE 7
END CONDITIONS FOR BRACED WALL LINES WITH CONTINUOUS SHEATHING

- REQUIREMENTS
- RETURN PANEL: 24" FOR BRACED WALL LINES SHEATHED WITH WOOD STRUCTURAL PANELS
32" FOR BRACED WALL LINES SHEATHED WITH STRUCTURAL FIBERBOARD
- DISTANCE D: 24" FOR BRACED WALL LINES SHEATHED WITH WOOD STRUCTURAL PANELS
32" FOR BRACED WALL LINES SHEATHED WITH STRUCTURAL FIBERBOARD
- HOLD DOWN DEVICE: 800 LBS CAPACITY FASTENED TO THE EDGE OF THE BRACED WALL PANEL CLOSEST TO THE CORNER AND TO THE FOUNDATION OR FLOOR FRAMING BELOW

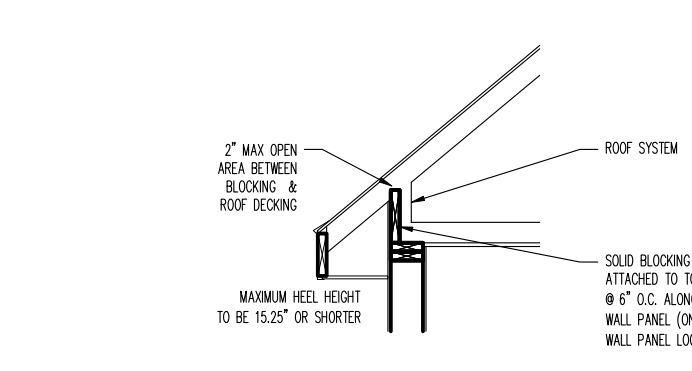


FIGURE 3
BRACED WALL PANEL CONNECTION TO PERPENDICULAR ROOF SYSTEM

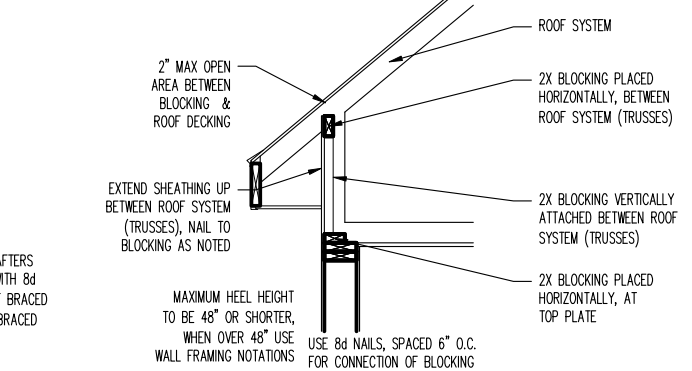


FIGURE 4
BRACED WALL PANEL CONNECTION TO PERPENDICULAR ROOF SYSTEM (WHEN OVER 15.25")

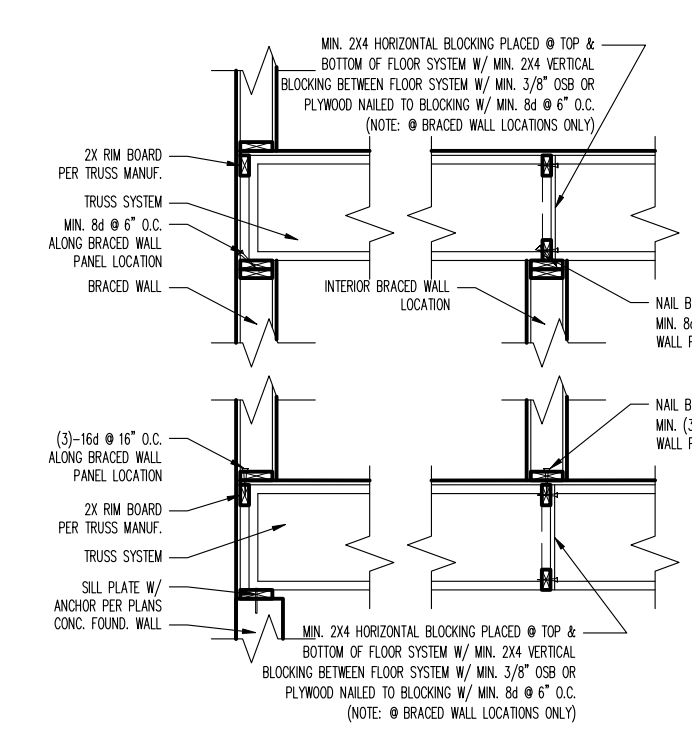


FIGURE 5
BRACED WALL PANEL CONNECTION WHEN PERPENDICULAR TO FLOOR/CEILING FRAMING

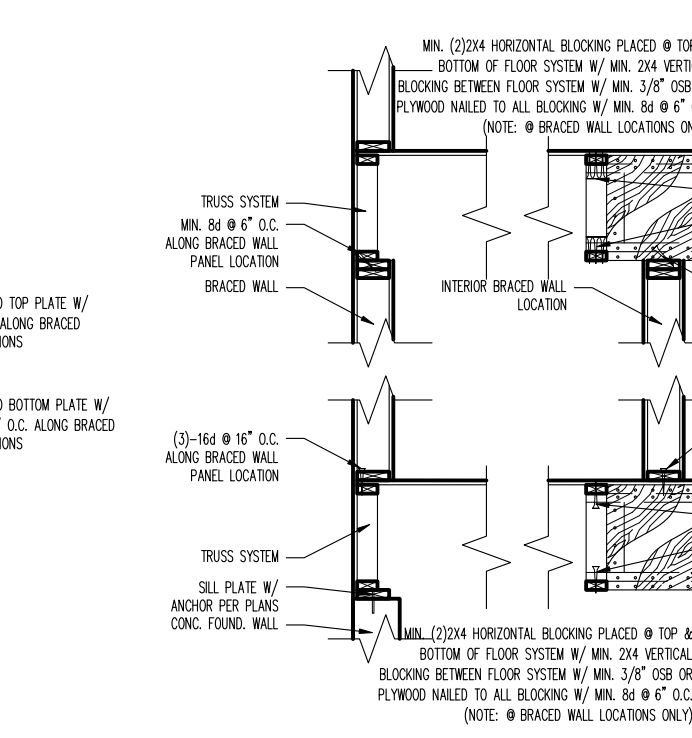


FIGURE 6
BRACED WALL PANEL CONNECTION WHEN PARALLEL TO FLOOR/CEILING FRAMING

TABLE R602.10.5 MINIMUM LENGTH OF BRACED WALL PANELS							
METHOD (SEE TABLE R602.10.4)	ADJACENT CLEAR OPENING HEIGHT (inches)	MINIMUM LENGTH 'a (inches)					CONTRIBUTING LENGTH (inches)
		WALL HEIGHT					
		8 Feet	9 Feet	10 Feet	11 Feet	12 Feet	
CS-WSP, CS-SFB	≤ 64	24	27	30	33	36	ACTUAL 'b
	68	26	27	30	33	36	
	72	27	27	30	33	36	
	76	30	29	30	33	36	
	80	32	30	32	33	36	
	84	35	32	32	33	36	
	88	38	35	33	33	36	
	92	43	37	35	35	36	
	96	48	41	38	36	36	
	100	44	40	38	38	38	
	104	49	43	40	39	39	
	108	54	46	43	41	41	
	112		50	45	43	43	
	116		55	48	45	45	
	120		60	52	48	48	
124			56	51	51		
128			61	54	54		
132			66	58	58		
136			62	62	62		
140			66	66	66		
144			72	72	72		

For S: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s.

NP - Not Permitted.

a. Linear interpolation shall be permitted.

b. Use the actual length when it is greater than or equal to the minimum length.

c. Maximum header height for PFH is 10 feet in accordance with Figure R602.10.6.2, but wall height may be increased to 12 feet with pony wall.

d. Maximum opening height for PFG is 10 feet in accordance with Figure R602.10.6.3, but wall height may be increased to 12 feet with pony wall.

e. Maximum opening height for CS-PF is 10 feet in accordance with Figure R602.10.6.4, but wall height may be increased to 12 feet with pony wall.

REVISION:	REV. DATE:	DRAWING TITLE:
REVISED TO WORK WITH NEW TRUSS PLAN/LAYOUTS	1-29-21	VANORNUM RESIDENCE
		LOCATION: 21155 IVERSON AVENUE NORTH, FOREST LAKE, MN

REVISION:	REV. DATE:	DRAWING TITLE:
REVISED TO WORK WITH NEW TRUSS PLAN/LAYOUTS	1-29-21	VANORNUM RESIDENCE
		LOCATION: 21155 IVERSON AVENUE NORTH, FOREST LAKE, MN

ALL PLANS & DESIGNS SHOWN ARE THE PROPERTY OF LITTFIN DESIGN. USE OF THESE PLANS ON ANY OTHER PROJECT/LOT OTHER THAN NOTED ON THIS TITLEBLOCK WITHOUT THE WRITTEN CONSENT OF LITTFIN DESIGN IS PROHIBITED.

© COPYRIGHT 2021



LITTFINDESIGN.COM
MLITTFIN@HOTMAIL.COM
320-224-7844
WINSTED, MN

CURRENT DATE:
1-29-21

PAGE
L S2 ID

PAGE DESCRIPTION:
BRACED WALL DETAILS
SCALED PRINT @ 24X36