

PROJECT INFORMATION

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PLAN REVIEW: CITY OF MERCER ISLAND
INSPECTION: CITY OF MERCER ISLAND

DESIGN CRITERIA

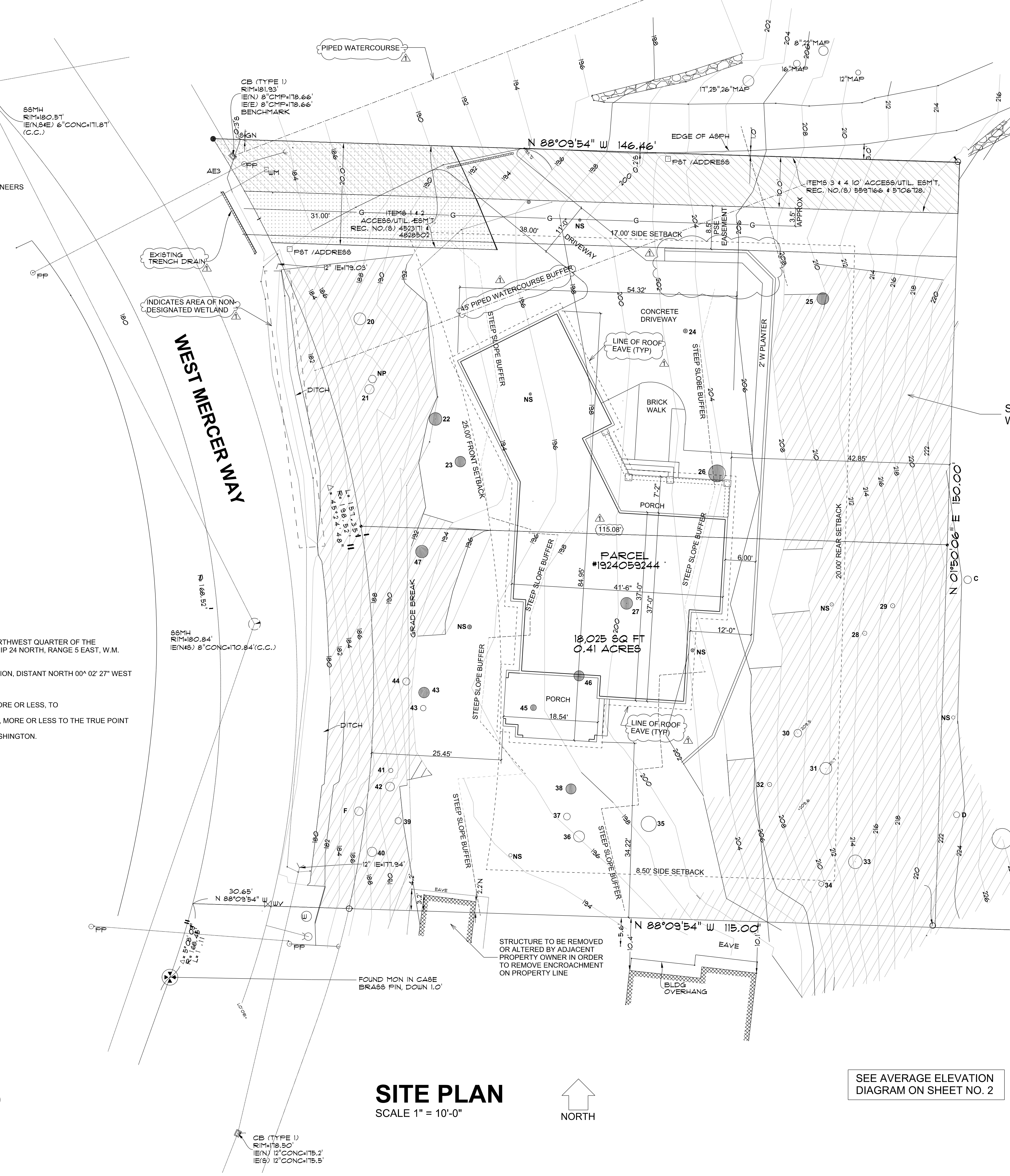
JURISDICTION: CITY OF MERCER ISLAND, WA
LEGAL DESCRIPTION: THAT PORTION OF THE SOUTH HALF OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 19, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M. DESCRIBED AS FOLLOWS:
BEGINNING ON THE EAST LINE OF SAID SUBDIVISION, DISTANT NORTH 00° 02' 27" WEST MERCER WAY AND THE POINT OF BEGINNING,
THENCE SOUTH 89° 24' 27" EAST 115 FEET;
THENCE NORTH 00° 35' 33" EAST 150 FEET;
THENCE NORTH 89° 24' 27" WEST 107.05 FEET, MORE OR LESS, TO SAID EAST LINE OF WEST MERCER WAY;
THENCE SOUTHERLY ALONG SAID LINE 150 FEET, MORE OR LESS TO THE TRUE POINT OF BEGINNING;
SITUATE IN THE COUNTY OF KING, STATE OF WASHINGTON.

PROPERTY ADDRESS: 2058 WEST MERCER WAY
MERCER ISLAND, WA 98040

TAX PARCEL NO: 192405-9244
EXISTING ZONING: R-15
GROSS LOT AREA: 18,295 SQ. FT. (0.42 ACRE)
NET LOT AREA: 17,902 SQ. FT. (0.41 ACRE)
BUILDING CODES: 2018 IRC
2018 WSEC
CONSTRUCTION TYPE: VB
OCCUPANCY TYPE: R-3 ONE FAMILY DWELING

SEE ADDITIONAL SITE DEVELOPMENT INFORMATION ON SHEET NO. 2

FIRE PROTECTION NOTE
THE STRUCTURE IS TO BE PROVIDED WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM MEETING THE REQUIREMENTS OF NFPA 13R AND ALSO A MONITORED HOUSEHOLD FIRE ALARM PER NFPA 72



- ASPHALT SURFACE
- BUILDING
- CENTERLINE ROW
- CULVERT PIPE
- DITCH (FLOWLINE)
- FIRE HYDRANT
- CATCH ANCHOR
- CATCH BASIN (TYPE 1)
- MONUMENT IN CASE (FOUND)
- POST
- POWER (OVERHEAD)
- POWER POLE
- IRON PIPE (FOUND)
- REBAR (CAP) (SET)
- ROCKERY
- SEWER LINE
- SEWER MANHOLE
- STORM DRAIN LINE
- SIZE TYPE TREE (AS NOTED)
- WATER MH
- WATER LINE
- WATER METER
- WATER VALVE
- STEEP SLOPE AREA
- ITEMS 1 & 2 ACCESS/UTIL. ESM.T. REC. NO.(S) 4523171 & 4828502
- ITEMS 3 & 4 10' ACCESS/UTIL. ESM.T. REC. NO.(S) 5597166 & 5106728.

STEEP SLOPES DENOTED WITH CROSS-HATCHING

GREENSCAPE CALCULATIONS
TOTAL AREA OF FRONT SETBACK = 1300.0 SQ. FT.
HARDSCAPE = 452.0 SQ. FT.
GREENSCAPE = 848.0 SQ. FT.
% OF GREENSCAPE IN FRONT SETBACK = 65.2 %

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SEE ARBORIST REPORT AND TREE SURVEY PLAN DATED FEBRUARY 27, 2023 BY TREE SOLUTIONS, INC. FOR INFORMATION ON TREES TO BE RETAINED AND REMOVED

SITE PLAN
SCALE 1" = 10'-0"

SEE AVERAGE ELEVATION DIAGRAM ON SHEET NO. 2

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REVISIONS	DATE	BY
REVISION 1	12/09/2022	

PROPOSED NEW RESIDENCE FOR:
EDWARD & CATHERINE MORAN
 5028 WEST MERCER WAY
 MERCER ISLAND, WA 98040

PLAN ONE
 FINE HOME DESIGN
 5125 47th Avenue S
 Seattle, Washington 98118
 (206) 612-8511 www.planone.biz

DRAWN BY: WMG
 DATE: APRIL 25, 2022
 PLAN NO.:
 SHEET NO.: **1**

LOT COVERAGE		
PROPOSED LOT COVERAGE		
	Impervious Areas (SF)	Pervious Areas (SF)
Proposed House	2664	
Proposed Driveway	1312	
Proposed Retaining Walls	63	
Permeable Pavers		116
Landscaping/Vegetation		13,722
Totals	4039	13,838
Lot Size	18,295	
Max Allowed Impervious Coverage	35 % (6403 SF)	
Impervious Lot Coverage	22 %	

LOT COVERAGE CALCULATIONS		
A. Gross Lot Area	18,295	Square Feet
B. Net Lot Area	16,865	Square Feet
C. Allowed Lot Coverage Area	5060	Square Feet
D. Allowed Lot Coverage	35	% Of Lot
E. Existing Lot Coverage	0	Square Feet
F. Total Lot Coverage Area Removed	0	Square Feet
I. Total New Lot Coverage Area		
1. Main Structure Roof Area	2239	Square Feet
2. Vehicular Use (driveway, paved access easements (portion used by the lot for access) parking)	1912	Square Feet
3. Covered Patios and Covered Decks	425	Square Feet
4. Total New Lot Coverage (I 1. + I 2 + I 3)	4576	Square Feet
J. Total Project Lot Coverage Area (E - F) + I 4	4576	
K. Proposed Lot Coverage Area	27.1	% Of Lot

HARDSCAPE CALCULATIONS		
A. Gross Lot Area	18,295	Square Feet
B. Net Lot Area	16,865	Square Feet
H. Total New Lot Hardscape Area		
3. Walkways	119	Square Feet
4. Stairs	44	Square Feet
5. Rockeries and Retaining Walls	70	Square Feet
7. Total New Hardscape Area (H 3 + H 4 + H 5)	233	Square Feet
I. Total Project Hardscape Area	233	Square Feet
J. Total Project Hardscape Area = (I / B) x 100	1.4	Square Feet

LOT SLOPE CALCULATIONS		
Highest Elevation Point of Lot	222	Feet
Lowest Elevation Point of Lot	184	Feet
Elevation Difference	38	Feet
Horizontal Distance Between High and Low Points	127	Feet
Lot Slope	29.9	%



MARK	ELEVATION	WALL LENGTH	ELEV X LENGTH
A	195.27	22.00'	4295.94
B	198.00	25.00'	4950.00
C	199.70	10.00'	1997.00
D	202.21	19.00'	3841.99
E	205.00	26.00'	5330.00
F	204.57	6.00'	1227.42
G	203.10	18.00'	3655.80
H	201.27	17.00'	3421.59
I	199.80	8.50'	1698.30
J	196.71	16.00'	3147.36
K	196.67	2.00'	393.34
L	196.67	2.50'	491.68
M	196.89	11.00'	2165.79
N	197.04	2.50'	492.60
O	195.47	13.50'	2638.85
P	196.89	2.50'	492.23
Q	195.47	23.25'	4544.68
R	193.72	26.58'	5149.08
TOTALS		251.33	49933.43

AVERAGE ELEVATION FORMULA = 49933.43 / 251.33
AVERAGE ELEVATION = 198.68

AVERAGE ELEVATION DIAGRAM
SCALE 1" = 10'-0"



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REVISIONS

DATE	BY

PROPOSED NEW RESIDENCE FOR:
EDWARD & CATHERINE MORAN
WEST MERCER WAY MERCER ISLAND, WA 98040

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5125 47th Avenue S
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DRAWN BY
WMG

DATE
APRIL 25, 2022

PLAN NO.

SHEET NO.
2

FIRE BLOCKING NOTES

PROVIDE FIRE BLOCKING PER 2018 IRC AND/OR AS FOLLOWS:

- a) IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT THE CEILING AND FLOOR LEVELS AND AT 10' INTERVALS BOTH VERTICAL AND HORIZONTAL.
- b) AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS AND COVE CEILINGS.
- c) IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN AND BETWEEN STUDS ALONG AND IN LINE WITH THE RUN OF STAIRS.
- d) IN OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS, FIREPLACES AND SIMILAR OPENINGS THAT AFFORD A PASSAGE FOR FIRE AT FLOOR AND CEILING LEVELS, WITH NON-COMUSTIBLE MATERIALS.
- e) AT OPENINGS BETWEEN ATTIC SPACES AND CHIMNEY CHASES FOR FACTORY BUILT CHIMNEYS.

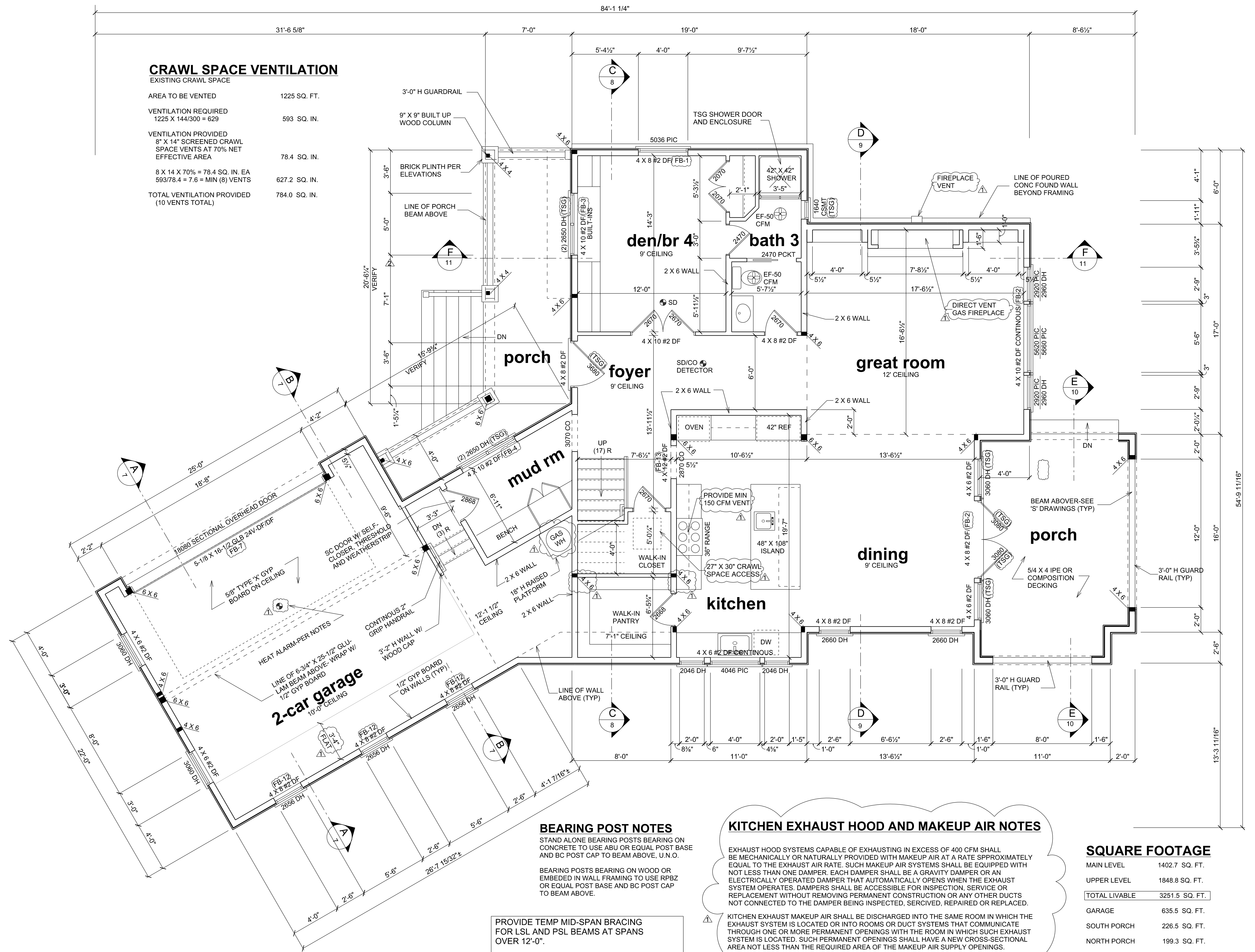
INDOOR AIR QUALITY

- 1. VENTILATION PER IRC M1507
- 2. ALL EXHAUST DUCTS TO MEET REQUIREMENTS
- 3. SOURCE SPECIFIC VENTILATION CONTROLLED BY MANUAL SWITCHES AND/OR TIMERS
- 4. PROVIDE VENTILATION CONTROLS PER IRC M1507.3.2
- 5. VENTILATION REQUIREMENTS PER IRC M1507.3.3. FLOOR AREA = 2585 SF, 3 BEDROOMS = 60 CFM AIRFLOW REQUIRED
(4) PANASONIC FV-GKF32S1 FRESH AIR INLETS @ 18 CFM= 72 CFM PROVIDED
- 6. WHOLE HOUSE VENTILATION TO BE PROVIDED BY LOCAL EXHAUST FAN PER IRC M1507.3.4. WHOLE HOUSE FAN TO BE ENERGY EFFICIENT @ .35 WATTS PER CFM.

FLOOR PLAN NOTES

WHEN AND WHERE APPLICABLE

- 1. EXTERIOR WALL FRAMING TO BE 2 X 6 NO.2 HF STUDS AT 16" OC U.N.O.
- 2. INTERIOR WALL FRAMING TO BE 2 X 4 NO. 2 HF STUDS AT 16" OC U.N.O.
- 3. INTERIOR WALL FINISH TO BE 1/2" GYPSUM BOARD U.N.O.
- 4. ALL FRAMING HARDWARE TO BE "SIMPSON" OR EQUAL.
- 5. EXTERIOR WALL SHEATHING TO BE 7/16" OSB APA RATED PANELS. PROVIDE BLOCKING AND 8d NAILS AT 6" OC AT ALL PANEL EDGES U.N.O. NAILING TO TOP PLATE OR TOENAILING TO JOISTS SHALL BE 8d NAILS AT 6" OC OR TO CONCRETE WITH 5/8" DIAMETER ANCHOR BOLTS AT 4'-0" OC U.N.O.
- 6. CRAWL SPACE OR ATTIC ACCESS HATCH TO BE INSULATED TO TO THE SAME VALUE AS THAT OF THE SURFACE IN WHICH IT IS LOCATED AND WEATHERSTRIPPED.
- 7. INSULATE PER PLAN AND SECTIONS.
- 8. ALL HEADERS AND BEAMS TO BE (2) 2 X 8 U.N.O.
- 9. ALL POSTS AND COLUMNS SHALL BE DOUBLE STUD MINIMUM U.N.O. WITH THE BEAM OR HEADER BEARING FULLY ON THE POST OR COLUMN.
- 10. FLOOR SHEATHING SHALL BE 23/32" STURD-I-FLOOR WITH A PANEL INDEX OF 40/20. NAIL TO FRAMING WITH 8d COMMON NAILS AT 4" OC AT PANEL EDGES AND 12" OC IN THE FIELD U.N.O.
- 11. ALL ANCHOR BOLTS AT FOUNDATION SILL SHALL HAVE MIN 3" X 3" X 1/4" PLATE WASHERS.
- 13. INSULATE ABOVE GRADE EXTERIOR 2 X 6 WALLS TO MIN R-21
- 14. INSULATE ABOVE GRADE EXTERIOR 2 X 4 WALLS TO MIN R-13
- 15. INSULATE BELOW GRADE EXTERIOR WALLS TO MIN R-21 ON THE EXTERIOR OR R-21 ON THE INTERIOR.
- 16. INSULATE CEILINGS WITH ATTIC SPACE ABOVE TO MIN R-49
- 17. INSULATE CEILINGS AT SLOPED AREAS TO MIN R-3
- 18. INSULATE CEILINGS AT UNHEATED SLOPED AREAS TO MIN R-30
- 19. INSULATE FLOORS ABOVE UNHEATED AREAS TO MIN R-30
- 20. EXTERIOR DOORS TO BE MIN 'U' VALUE OF 0.20
- 21. VERTICAL GLAZING TO BE MIN 'U' VALUE OF 0.28
- 22. HORIZONTAL GLAZING TO BE MIN 'U' VALUE OF 0.50
- 23. WALL FINISH AT TUB AND/OR SHOWER SURROUNDS TO EXTEND A MIN OF 6'-0" ABOVE FIN FLR.
- 24. ALL OVERHEAD GLAZING TO BE OF TEMPERED SAFETY GLASS (TSG)
- 25. SMOKE DETECTORS TO BE HARD WIRED WITH BATTERY BACK-UP
- 26. WHERE OPERABLE WINDOWS ARE MORE THAN 6'-0" ABOVE OUTSIDE GRADE THE OPERABLE PORTION OF THE WINDOW TO BE MINIMUM OF 2'-0" ABOVE THE INTERIOR WALKING SURFACE PER R613.2
- 27. WATERPROOF DECKS TO BE SLOPED AT 1/4" PER FT AS INDICATED.
- 28. PROVIDE HIGH EFFICIENCY LIGHTING CONTROLS FOR ALL EXTERIOR LIGHTING PER WSEC 505.3, CH 2.
- 29. A MINIMUM OF 75% OF LUMINAIRES MUST BE HIGH EFFICACY LUMINAIRES.
- 30. PROVIDE APPROVED CARBON MONOXIDE DETECTOR OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS AND ON EACH LEVEL OF THE DWELLING.
- 31. FASTENERS, INCLUDING NUTS AND WASHERS, IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER.
- 32. GUARDRAIL TO SUPPORT 200 LB CONCENTRATED LOAD ON TOP AND 50 PSF ON INFILL COMPONENTS (TYP)



MAIN LEVEL FLOOR PLAN
SCALE 1/4" = 1'-0"



PROVIDE TEMP MID-SPAN BRACING FOR LSL AND PSL BEAMS AT SPANS OVER 12'-0".
ALL BEARING POSTS TO CONTINUE DOWN TO FOUNDATION EITHER DIRECTLY OR INDIRECTLY THROUGH BEAMS OR HEADERS BELOW

BEARING POST NOTES
STAND ALONE BEARING POSTS BEARING ON CONCRETE TO USE ABU OR EQUAL POST BASE AND BC POST CAP TO BEAM ABOVE, U.N.O.
BEARING POSTS BEARING ON WOOD OR EMBEDDED IN WALL FRAMING TO USE RPBZ OR EQUAL POST BASE AND BC POST CAP TO BEAM ABOVE.

KITCHEN EXHAUST HOOD AND MAKEUP AIR NOTES
EXHAUST HOOD SYSTEMS CAPABLE OF EXHAUSTING IN EXCESS OF 400 CFM SHALL BE MECHANICALLY OR NATURALLY PROVIDED WITH MAKEUP AIR AT A RATE APPROXIMATELY EQUAL TO THE EXHAUST AIR RATE. SUCH MAKEUP AIR SYSTEMS SHALL BE EQUIPPED WITH NOT LESS THAN ONE DAMPER. EACH DAMPER SHALL BE A GRAVITY DAMPER OR AN ELECTRICALLY OPERATED DAMPER THAT AUTOMATICALLY OPENS WHEN THE EXHAUST SYSTEM OPERATES. DAMPERS SHALL BE ACCESSIBLE FOR INSPECTION, SERVICE OR REPLACEMENT WITHOUT REMOVING PERMANENT CONSTRUCTION OR ANY OTHER DUCTS NOT CONNECTED TO THE DAMPER BEING INSPECTED, SERVICED, REPAIRED OR REPLACED.
KITCHEN EXHAUST MAKEUP AIR SHALL BE DISCHARGED INTO THE SAME ROOM IN WHICH THE EXHAUST SYSTEM IS LOCATED OR INTO ROOMS OR DUCT SYSTEMS THAT COMMUNICATE THROUGH ONE OR MORE PERMANENT OPENINGS WITH THE ROOM IN WHICH SUCH EXHAUST SYSTEM IS LOCATED. SUCH PERMANENT OPENINGS SHALL HAVE A NEW CROSS-SECTIONAL AREA NOT LESS THAN THE REQUIRED AREA OF THE MAKEUP AIR SUPPLY OPENINGS.

SQUARE FOOTAGE

MAIN LEVEL	1402.7 SQ. FT.
UPPER LEVEL	1848.8 SQ. FT.
TOTAL LIVABLE	3251.5 SQ. FT.
GARAGE	635.5 SQ. FT.
SOUTH PORCH	226.5 SQ. FT.
NORTH PORCH	199.3 SQ. FT.

SEE SHEETS NOS. S-1, S-7 & S-8 FOR SHEAR WALL SCHEDULE, PLANS, AND GENERAL NOTES

TSG= TEMPERED SAFETY GLASS

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REVISIONS

DATE	BY	REVISION
12/08/2022	WMG	REVISION

PROPOSED SINGLE FAMILY RESIDENCE FOR:
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DATE
APRIL 25, 2022

PLAN NO.

SHEET NO.

3

ENERGY CODE NOTES

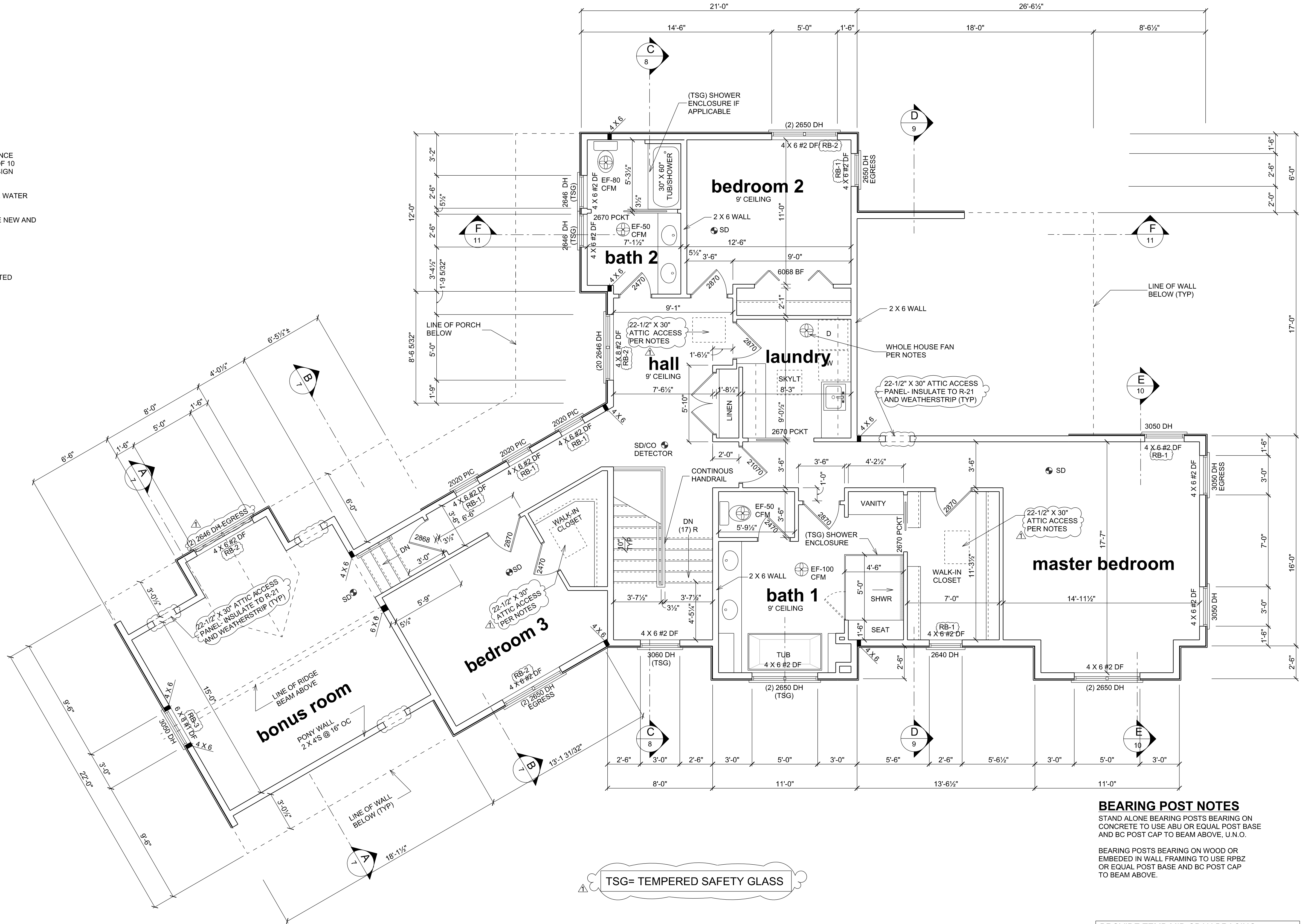
- EACH DWELLING UNIT IS TO BE PROVIDED WITH AT LEAST ONE PROGRAMMABLE THERMOSTAT FOR THE REGULATION OF TEMPERATURE.
- BUILDING AIR LEAKAGE TESTING, DEMONSTRATING THE SPECIFIC LEAKAGE AREA IS LESS THAN OR EQUAL TO 0.3 CFM, IS REQUIRED PRIOR TO FINAL INSPECTION. THE TEST RESULTS SHALL BE POSTED ON THE RESIDENTIAL ENERGY COMPLIANCE CERTIFICATE.
- DUCT LEAKAGE TEST RESULTS SHALL BE PROVIDED TO THE BUILDING INSPECTOR AND HOMEOWNER PRIOR TO AN APPROVED FINAL INSPECTION.
- A RESIDENTIAL ENERGY COMPLIANCE CERTIFICATE COMPLYING WITH SEC 105.4 IS REQUIRED TO BE COMPLETED BY THE DESIGN PROFESSIONAL OR BUILDER AND PERMANENTLY POSTED WITHIN 3 FEET OF THE ELECTRICAL PANEL PRIOR TO FINAL INSPECTION.
- 1.0 ENERGY CREDIT FUEL NORMALIZATION DESCRIPTION:
(OPTION 1- 1.0 CREDIT) HEAT PUMP

6.0 ENERGY CREDIT OPTION DESCRIPTIONS:
(OPTION 1.4 - 1.0 CREDIT) EFFICIENT BUILDING ENVELOPE: VERTICAL FENESTRATION U= 0.25, WALL INSULATION R-21 PLUS R-4, FLOOR R-38, SLAB ON GRADE R-10 PERIMETER AND UNDER ENTIRE SLAB, BELOW GRADE SLAB R-10 PERIMETER AND UNDER ENTIRE SLAB.
(OPTION 2.2 - 1.0 CREDIT) COMPLIANCE BASED ON SECTION R402.1.2: REDUCE TESTED AIR LEAKAGE TO 2.0 AIR CHANGES PER HOUR MAXIMUM OR 50 PASCALS.
(OPTION 3.6 - 2.0 CREDITS) DUCTLESS SPLIT SYSTEM HEAT PUMPS WITH NO ELECTRIC RESISTANCE HEATING IN PRIMARY LIVING AREAS. A DUCTLESS HEAT PUMP SYSTEM WITH A MINIMUM HSPF OF 10 SHALL BE SIZED AND INSTALLED TO PROVIDE HEAT TO THE ENTIRE DWELLING UNIT AT THE DESIGN OUTDOOR AIR TEMPERATURE.
(OPTION 5.2 - 0.5 CREDITS) EFFICIENT WATER HEATING: ENERGY STAR RATED GAS, OR PROPANE WATER HEATER WITH A MINIMUM UEF OF 0.80
(OPTION 7.1 - 0.5 CREDITS) APPLIANCE PACKAGE: ALL OF THE FOLLOWING APPLIANCES SHALL BE NEW AND INSTALLED IN THE DWELLING UNIT AND SHALL MEET THE FOLLOWING STANDARDS:
DISHWASHER - ENERGY STAR RATED
REFRIGERATOR - ENERGY STAR RATED
WASHING MACHINE - ENERGY STAR RATED
DRYER - ENERGY STAR RATED, VETLESS DRYER WITH MINIMUM CFE RATING OF 5.2
- PER WSEC R403.3, DUCTS, AIR HANDLERS AND FILTER BOXES SHALL BE SEALED AND LEAK TESTED
- BLOWER DOOR TESTING- AR LEAKAGE SHALL NOT EXCEED 3.0 AIR CHANGES PER HOUR, AND SHALL BE TESTED PER SEC R402.1.2. PROVIDE A WRITTEN REPORT OF THE TEST RESULTS, SIGNED BY THE TESTING PARTY, TO THE BUILDING INSPECTOR, PRIOR TO APPROVED FINAL INSPECTION.
- THE DESIGN PROFESSIONAL OR BUILDER SHALL COMPLETE AND POST A "INSULATION CERTIFICATE FOR RESIDENTIAL CONSTRUCTION" WITHIN 3 FEET OF THE ELECTRICAL PANEL PRIOR TO FINAL INSPECTION.
- THE DESIGN PROFESSIONAL OR BUILDER SHALL COMPLETE AND POST A "INSULATION CERTIFICATE FOR RESIDENTIAL CONSTRUCTION" WITHIN 3 FEET OF THE ELECTRICAL PANEL PRIOR TO FINAL INSPECTION.
- RECESSED CAN LIGHTS ARE TO BE TYPE 1C RATED AND SEALED.
- PER WEC 402.4, THE BUILDING THERMAL ENVELOPE SHALL BE CONSTRUCTED TO LIMIT AIR LEAKAGE IN ACCORDANCE WITH THE REQUIREMENTS OF SEC R402.1.1 THROUGHOUT R402.4.4.
- PER 4403.2.2, DUCTS, AIR HANDLERS AND FILTER BOXES SHALL BE SEALED. JOINTS AND SEAMS SHALL COMPLY WITH EITHER THE IMC OR IRC AS APPLICABLE.

WHOLE HOUSE FAN NOTES

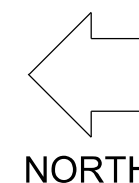
VENTILATION REQUIREMENTS PER IRC M1507.3.3
FLOOR AREA = 3203 SF, 4 BEDROOMS = 90 CFM

- PROVIDE A CENTRALLY LOCATED WHOLE HOUSE EXHAUST FAN WITH A MINIMUM SONE RATING OF 1.5 AND MINIMUM CAPACITY OF 100CFM AND CONNECTED TO AN AUTOMATIC CONTROL TIMER.
- AN AUTOMATIC CONTROL CLOCK TIMER SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION. THE TIMER SHALL BE CAPABLE OF CONTINUOUS OPERATION AND HAVE AN AUTOMATIC AND MANUAL CONTROL. THE TIMER SHALL BE SET TO OPERATE THE WHOLE HOUSE FAN FOR A MINIMUM OF 8 HOURS.
- INTERIOR DOORS SHALL BE UNDERCUT A MINIMUM OF 1/2" ABOVE THE FINISHED FLOOR.
- FRESH AIR INTAKE DUCT TO BE MINIMUM 7" DIAMETER SMOOTH PIPE FOR A MAXIMUM LENGTH OF 20' AND A MAXIMUM OF 3 ELBOWS.
- FRESH AIR INLET TO BE INSULATED TO A MINIMUM OF R-4 WITHIN HEATED AREAS.
- FRESH AIR INLET TO BE PROTECTED FROM THE ENTRY OF INSECTS, LEAVES AND OTHER MATERIAL
- FRESH AIR INLET NOT TO BE LOCATED AS FOLLOWS:
A. WITHIN 10' OF AN APPLIANCE OUTLET UNLESS THE VENT OUTLET IS A MINIMUM OF 3' ABOVE THE FRESH AIR INLET.
B. WHERE IT WILL PICK UP OBJECTIONABLE ODORS, FUMES OR FLAMABLE VAPORS.
C. A HAZARDOUS OR UNSANITARY LOCATION.
D. A ROOM OR SPACE HAVING FUEL BURNING APPLIANCES WITHIN.
E. CLOSER THAN 10' FROM A VENT OPENING OF A PLUMBING DRAINAGE SYSTEM UNLESS THE VENT OPENING IS AT LEAST 3' ABOVE THE FRESH AIR INLET.
F. IN AN ATTIC, CRAWL SPACE OR GARAGE.
- THE EXHAUST DUCT SHALL TERMINATE OUTSIDE THE BUILDING AND BE EQUIPPED WITH A BACK-DRAFT DAMPER. THE EXHAUST DUCT IN UNCONDITIONED SPACES SHALL BE INSULATED TO A MINIMUM OF R-4.



UPPER LEVEL FLOOR PLAN

SCALE 1/4" = 1'-0"



BEARING POST NOTES

STAND ALONE BEARING POSTS BEARING ON CONCRETE TO USE ABU OR EQUAL POST BASE AND BC POST CAP TO BEAM ABOVE, U.N.O.

BEARING POSTS BEARING ON WOOD OR EMBEDDED IN WALL FRAMING TO USE RP2Z OR EQUAL POST BASE AND BC POST CAP TO BEAM ABOVE.

PROVIDE TEMP MID-SPAN BRACING FOR LSL AND PSL BEAMS AT SPANS OVER 12'-0".

ALL BEARING POSTS TO CONTINUE DOWN TO FOUNDATION EITHER DIRECTLY OR INDIRECTLY THROUGH BEAMS OR HEADERS BELOW

SEE SHEETS NOS. S-1, S-7 & S-8 FOR SHEAR WALL SCHEDULE, PLANS, AND GENERAL NOTES

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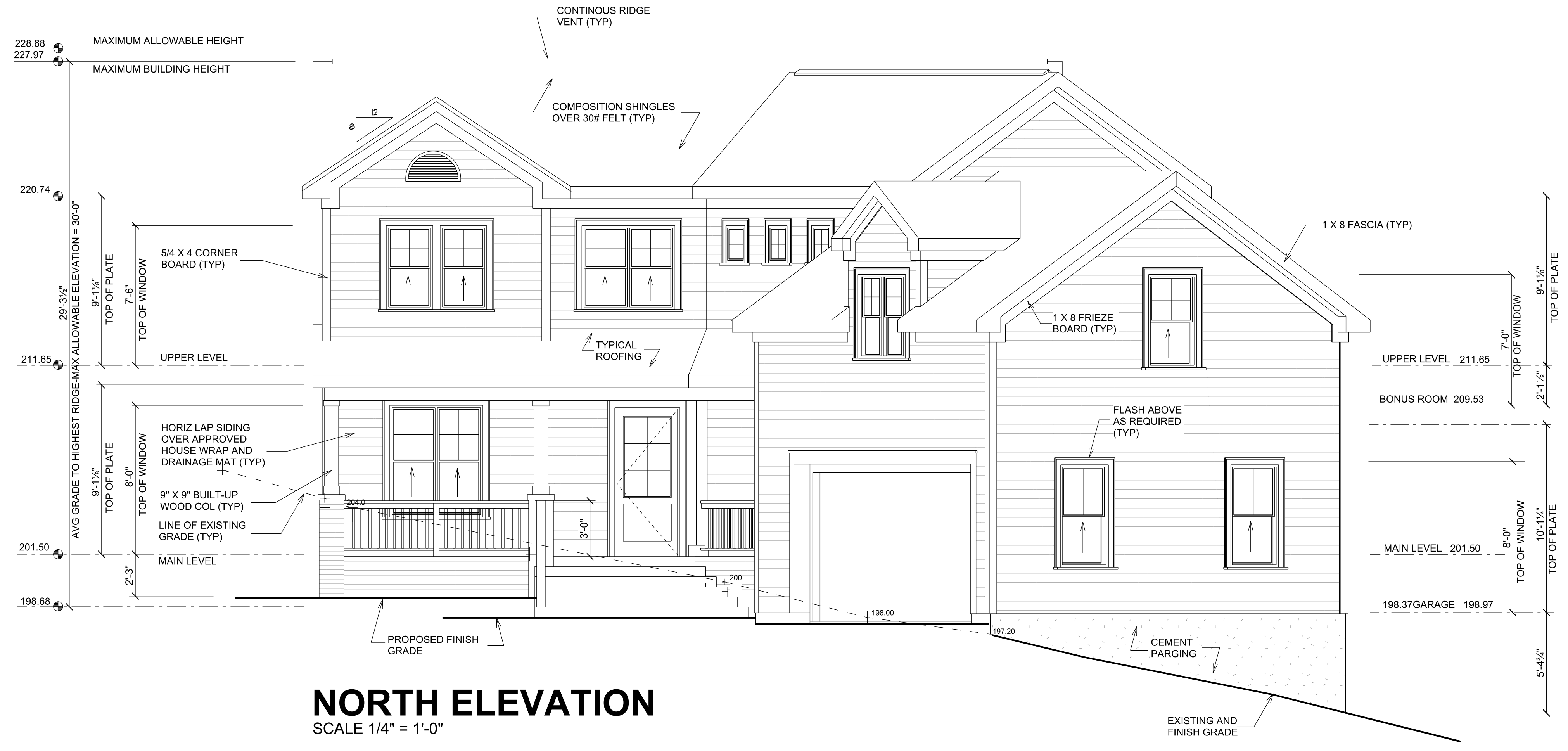
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MERCER, ISLAND, WA

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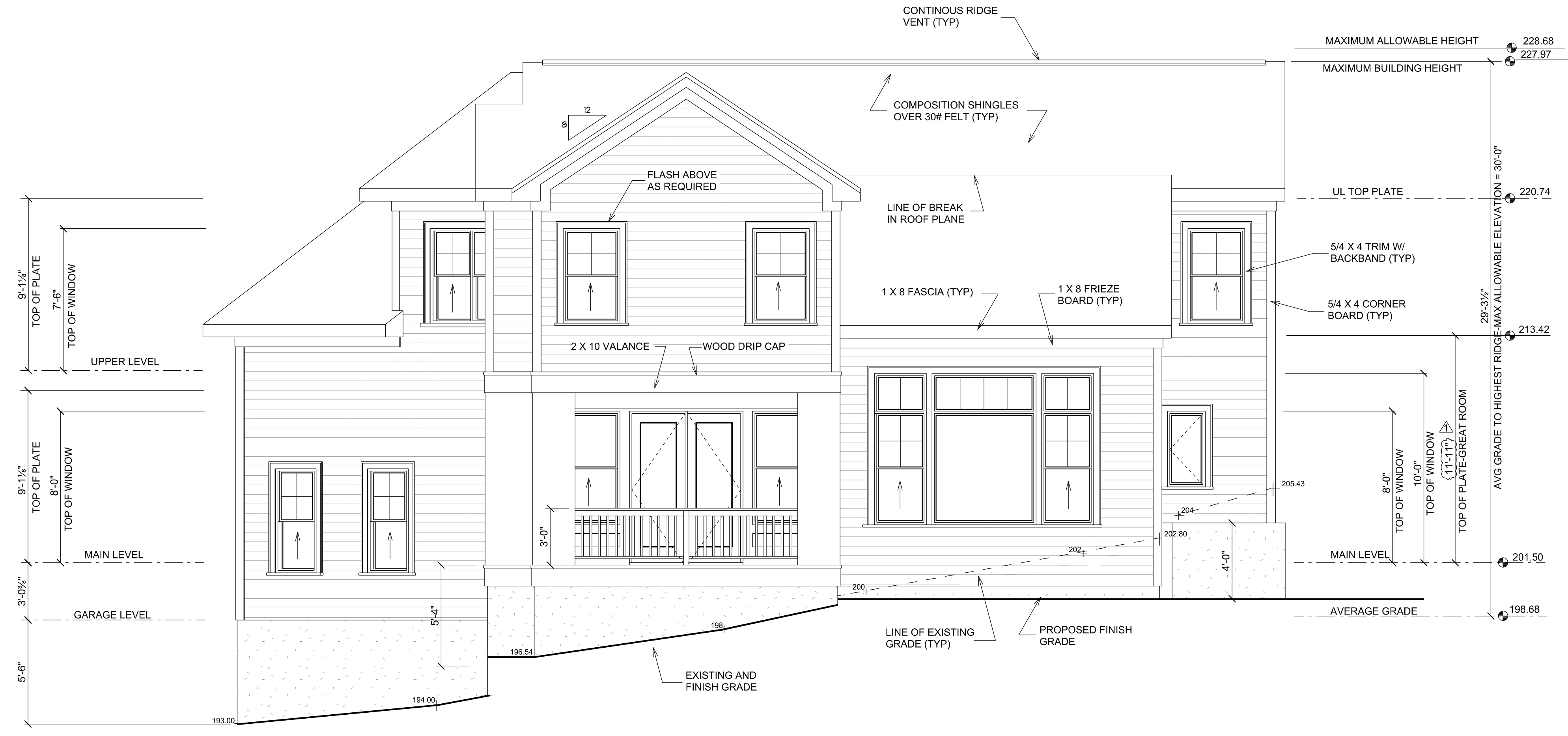
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NORTH ELEVATION
SCALE 1/4" = 1'-0"



SOUTH ELEVATION
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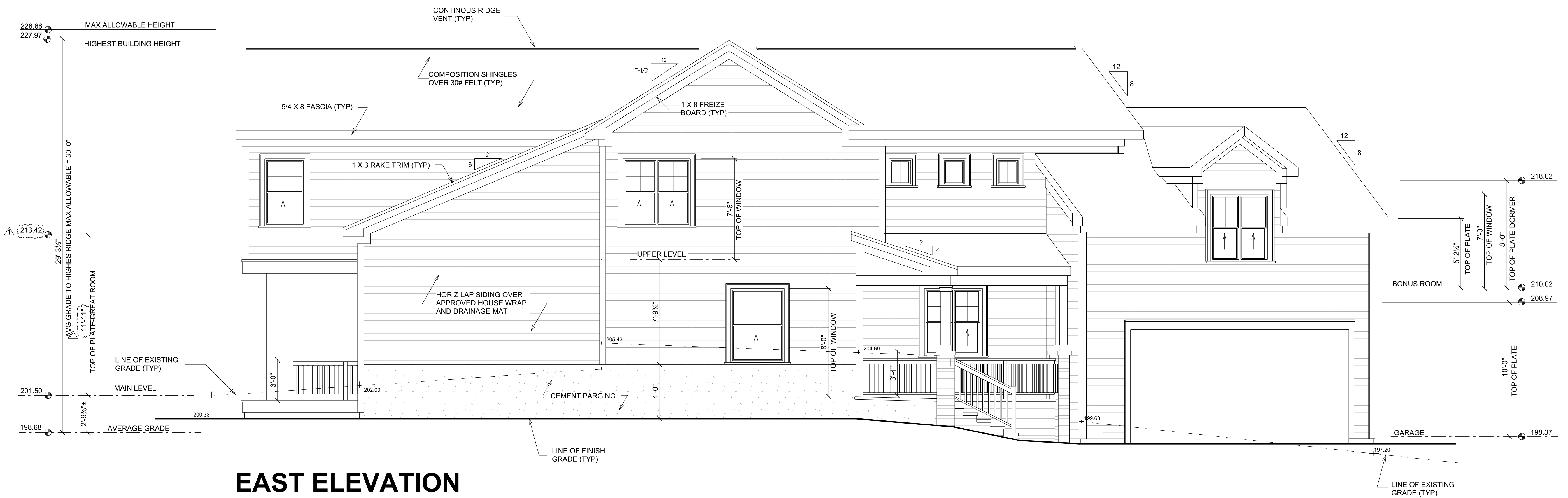
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WEST ELEVATION
SCALE 3/8" 1'-0"



EAST ELEVATION
SCALE 3/8" 1'-0"

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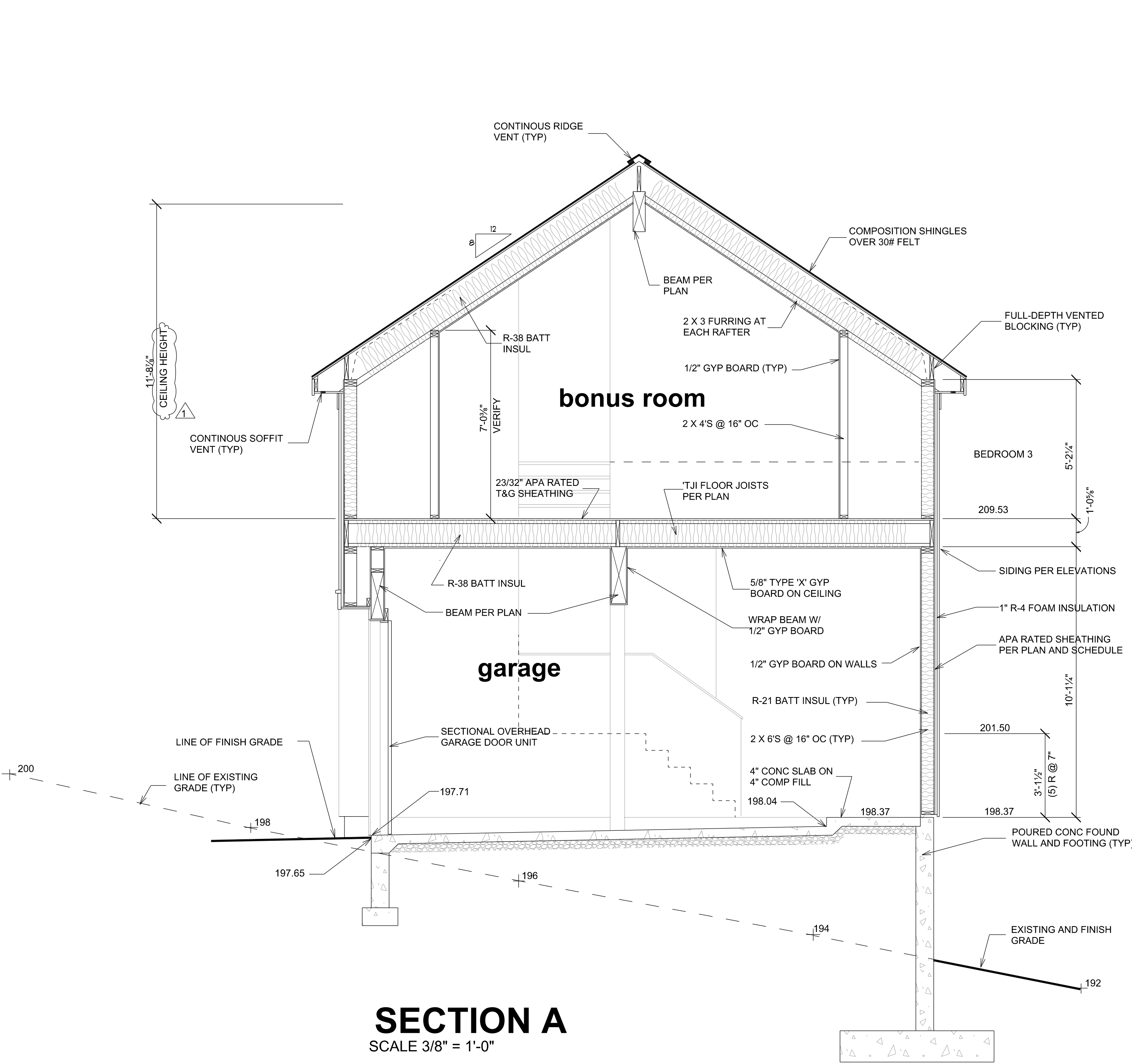
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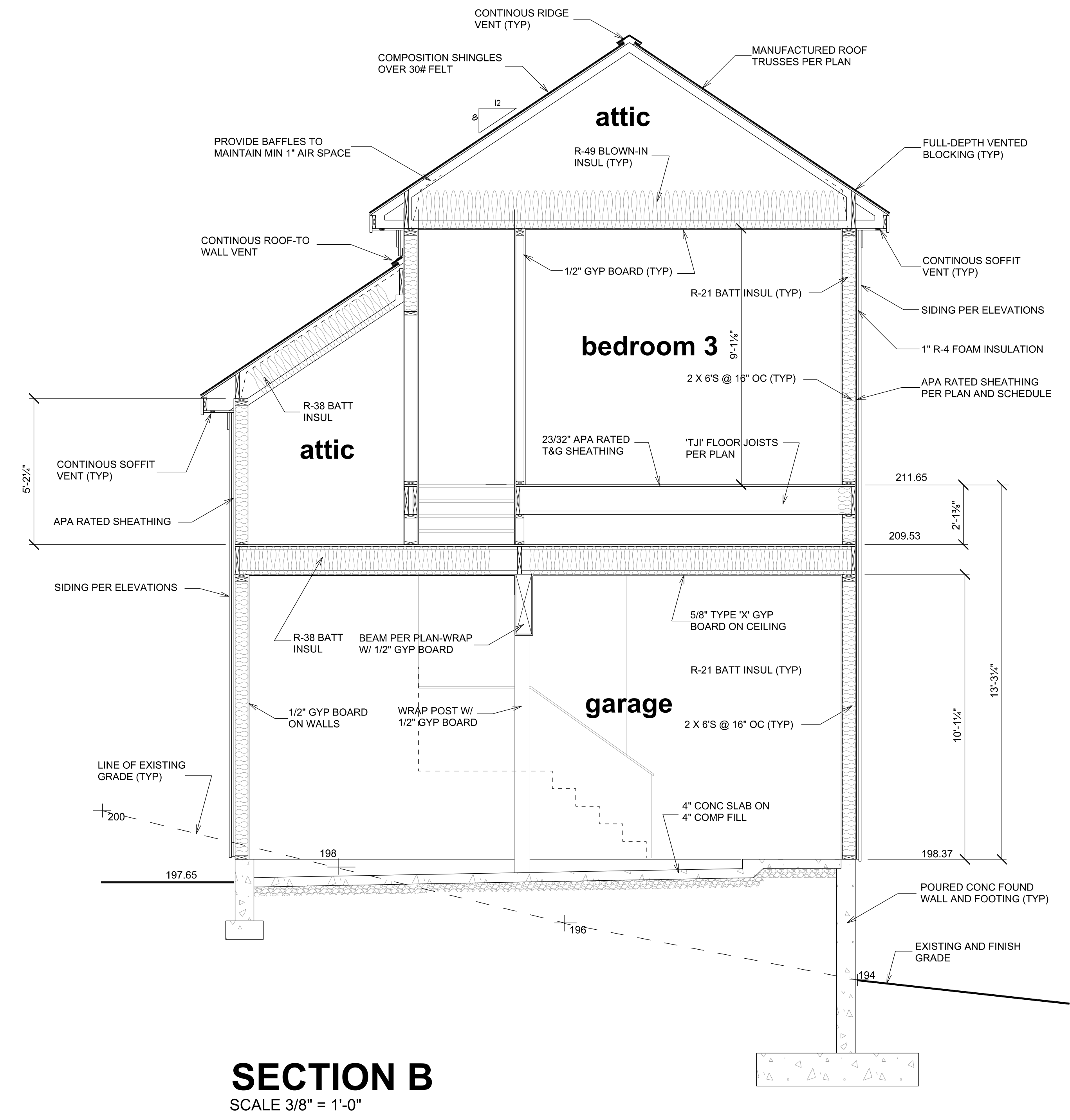
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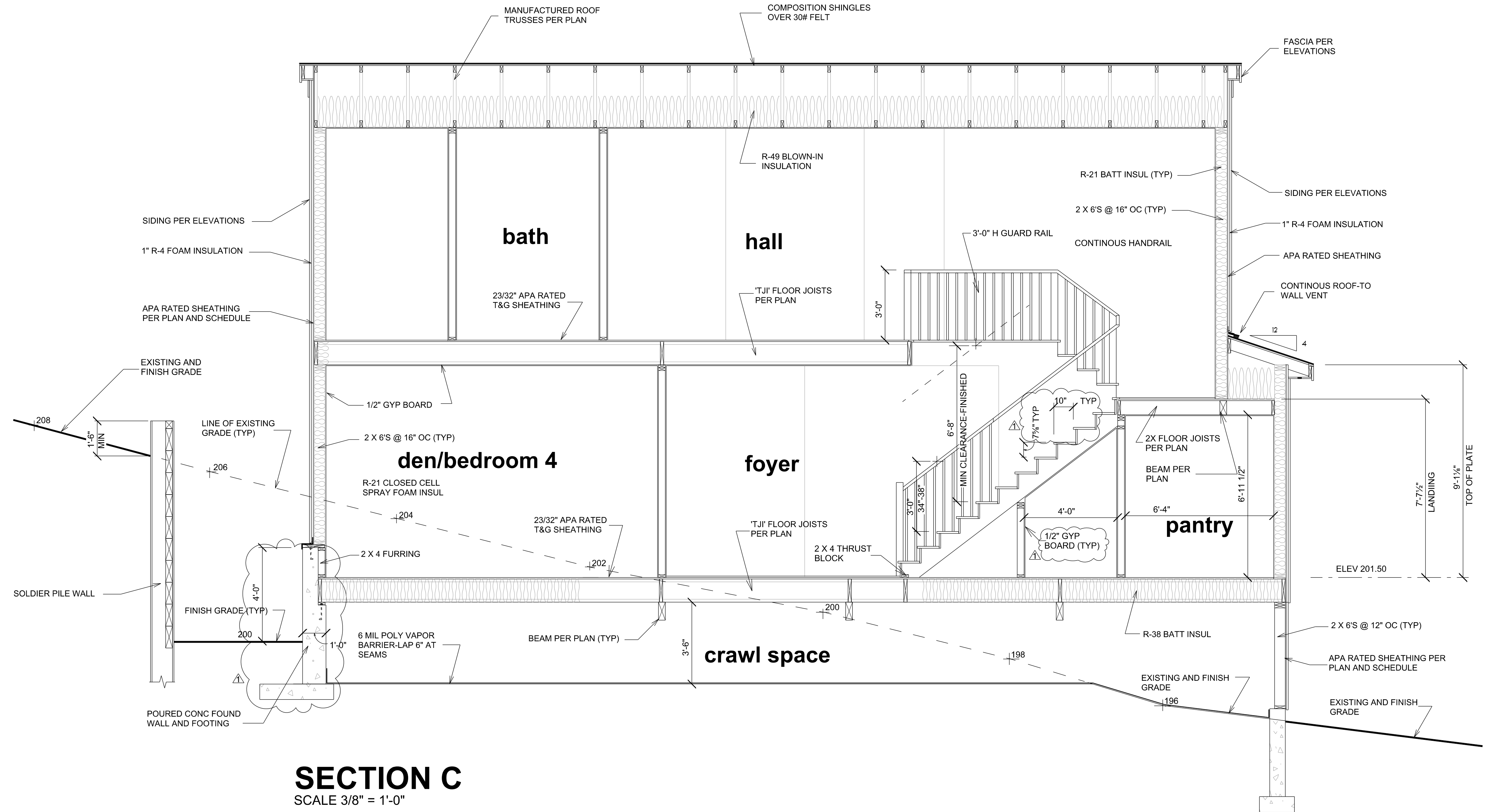
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SECTION A
 SCALE 3/8" = 1'-0"



SECTION B
 SCALE 3/8" = 1'-0"



SECTION C
SCALE 3/8" = 1'-0"

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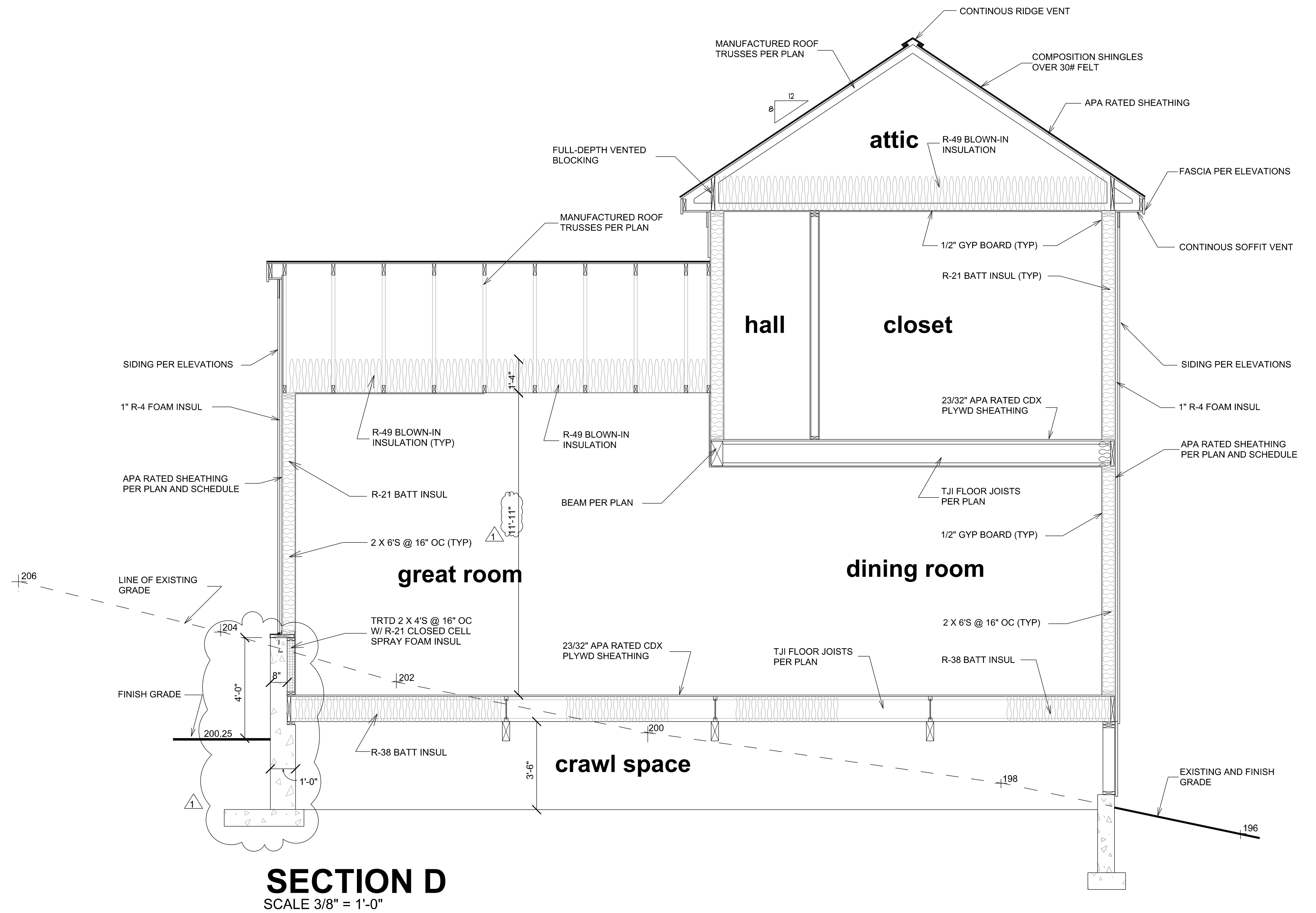
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SECTION D
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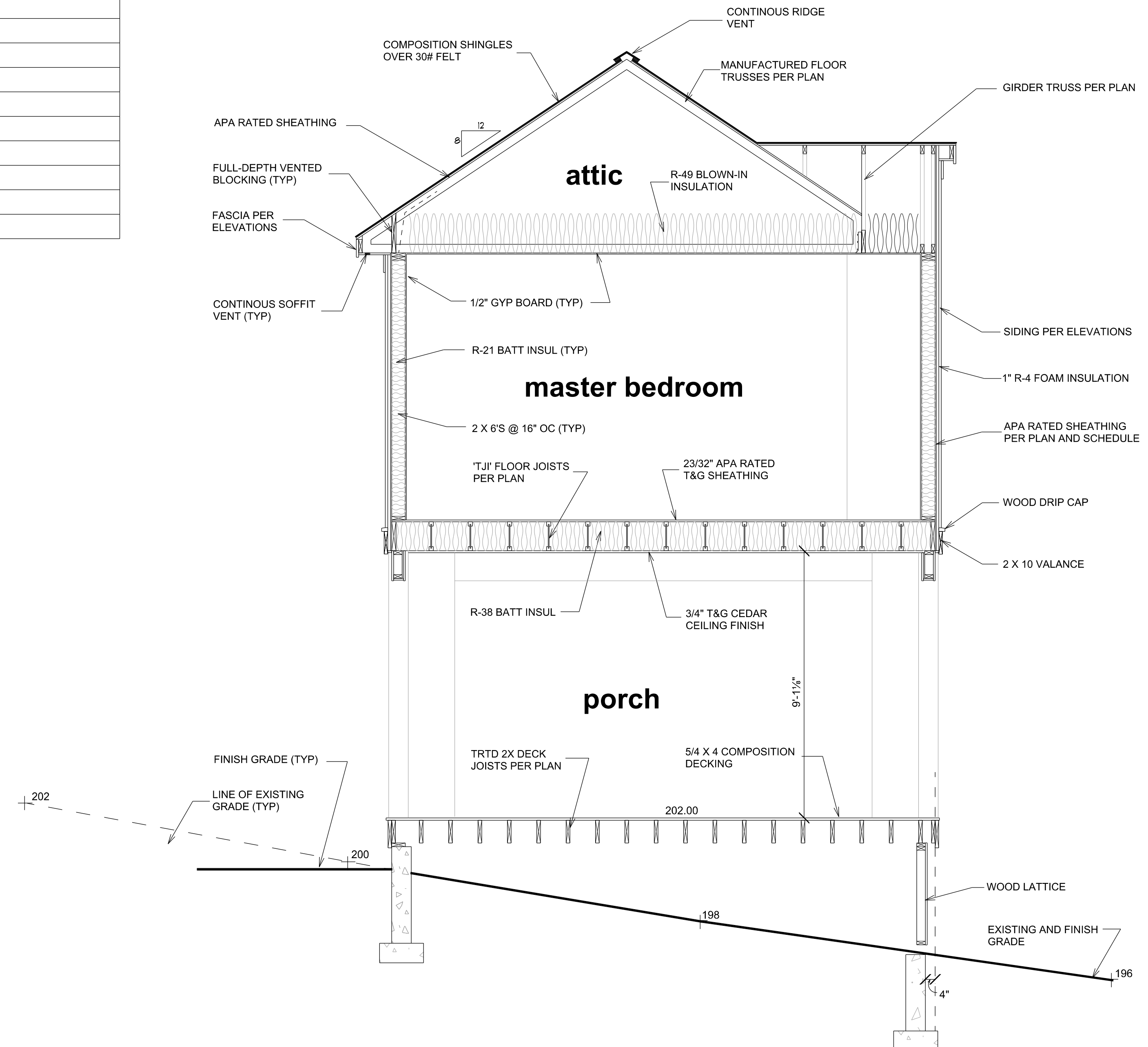
9

GLAZING SCHEDULE:

ALL GLAZING TO BE NEW, INSULATED, LOW E-366 GLASS. 'U' VALUES SHOWN ARE NFRC CERTIFIED VALUES.
 ALL DOOR GLAZING AND GLAZING WITHIN 2'-0" OF AN EXTERIOR DOOR SHALL BE TEMPERED SAFETY GLASS.
 TOTAL CONDITIONED FLOOR AREA = 3203.0 SQ. FT.
 TOTAL GLAZING AREA = 817.3 SQ. FT. = 19.2 %
 AREA WEIGHTED AVERAGE 'U' VALUE = 0.280

ROOM	DESCRIPTION	UNIT SIZE	SQUARE FT.	QUANTITY	TOTAL SQ. FT.	'U'	TOTAL 'U'	COMMENTS
FOYER	SIMPSON 5001 INSUL GL 1 LITE FRENCH DOOR	3'-6" X 8'-0"	28.0	1	28.0	0.25	7.0	TEMPERED SG
DEN/BEDROOM 4	JELD-WEN PREMIUM INSULATED VINYL DOUBLE HUNG WINDOW	2'-6" X 5'-0"	12.5	2	25.0	0.25	6.3	LOW E-366 GLASS-TEMPERED SAFETY GLASS
	JELD-WEN PREMIUM INSULATED VINYL FIXED WINDOW	5'-0" X 3'-6"	17.5	1	17.5	0.25	4.4	LOW E-366 GLASS
BATHROOM 3	JELD-WEN PREMIUM INSULATED VINYL CASEMENT WINDOW	1'-6" X 4'-0"	6.0	1	6.0	0.25	1.5	LOW E-366 GLASS-TEMPERED SAFETY GLASS
LIVING ROOM	JELD-WEN PREMIUM INSULATED VINYL DOUBLE HUNG WINDOW	2'-9" X 6'-0"	16.5	2	33.0	0.25	8.3	LOW E-366 GLASS
	JELD-WEN PREMIUM INSULATED VINYL FIXED WINDOW	5'-6" X 6'-0"	33.0	1	33.0	0.25	8.3	LOW E-366 GLASS
	JELD-WEN PREMIUM INSULATED VINYL FIXED WINDOW	2'-9" X 2'-0"	5.5	2	11.0	0.25	2.8	LOW E-366 GLASS
	JELD-WEN PREMIUM INSULATED VINYL FIXED WINDOW	5'-6" X 2'-0"	11.0	1	11.0	0.25	2.8	LOW E-366 GLASS
DINING ROOM	SIMPSON 5001 INSUL GL 1 LITE FRENCH DOOR	6'-0" X 8'-0"	48.0	1	48.0	0.25	12.0	LOW E-366 GLASS-DOUBLE HUNG-TEMPERED SAFETY GLASS
	JELD-WEN PREMIUM INSULATED VINYL DOUBLE HUNG WINDOW	3'-0" X 6'-0"	18.0	2	36.0	0.25	9.0	LOW E-366 GLASS-TEMPERED SAFETY GLASS
	JELD-WEN PREMIUM INSULATED VINYL DOUBLE HUNG WINDOW	2'-6" X 6'-0"	15.0	2	30.0	0.25	7.5	LOW E-366 GLASS
KITCHEN	JELD-WEN PREMIUM INSULATED VINYL DOUBLE HUNG WINDOW	2'-0" X 4'-6"	9.0	2	9.0	0.25	2.3	LOW E-366 GLASS
	JELD-WEN PREMIUM INSULATED VINYL FIXED WINDOW	4'-0" X 4'-6"	18.0	1	18.0	0.25	4.5	LOW E-366 GLASS
MUD ROOM	JELD-WEN PREMIUM INSULATED VINYL DOUBLE HUNG WINDOW	2'-6" X 5'-0"	12.5	2	25.0	0.25	6.3	LOW E-366 GLASS-TEMPERED SAFETY GLASS
STAIRWELL	JELD-WEN PREMIUM INSULATED VINYL DOUBLE HUNG WINDOW	3'-0" X 6'-0"	18.0	1	18.0	0.25	4.5	LOW E-366 GLASS-TEMPERED SAFETY GLASS
HALLWAY	JELD-WEN PREMIUM INSULATED VINYL DOUBLE HUNG WINDOW	2'-6" X 4'-6"	11.3	2	22.6	0.25	5.7	LOW E-366 GLASS
	JELD-WEN PREMIUM INSULATED VINYL FIXED WINDOW	2'-0" X 2'-0"	4.0	3	12.0	0.25	2.7	LOW E-366 GLASS
MASTER BEDROOM	JELD-WEN PREMIUM INSULATED VINYL DOUBLE HUNG WINDOW	3'-0" X 5'-0"	15.0	3	45.0	0.25	11.3	LOW E-366 GLASS
	JELD-WEN PREMIUM INSULATED VINYL DOUBLE HUNG WINDOW	2'-6" X 5'-0"	12.5	2	25.0	0.25	6.3	LOW E-366 GLASS
MASTER CLOSET	JELD-WEN PREMIUM INSULATED VINYL DOUBLE HUNG WINDOW	2'-6" X 4'-0"	10.0	1	10.0	0.25	2.5	LOW E-366 GLASS
MASTER BATH	JELD-WEN PREMIUM INSULATED VINYL DOUBLE HUNG WINDOW	2'-6" X 5'-0"	12.5	2	25.0	0.25	6.3	LOW E-366 GLASS-TEMPERED SAFETY GLASS
BEDROOM 2	JELD-WEN PREMIUM INSULATED VINYL DOUBLE HUNG WINDOW	2'-6" X 5'-0"	12.5	3	37.5	0.25	9.4	LOW E-366 GLASS
BATHROOM 2	JELD-WEN PREMIUM INSULATED VINYL DOUBLE HUNG WINDOW	2'-6" X 4'-6"	11.3	2	22.6	0.25	5.7	LOW E-366 GLASS-TEMPERED SAFETY GLASS
BEDROOM 3	JELD-WEN PREMIUM INSULATED VINYL DOUBLE HUNG WINDOW	2'-6" X 5'-0"	12.5	2	25.0	0.25	6.3	LOW E-366 GLASS
BONUS ROOM	JELD-WEN PREMIUM INSULATED VINYL DOUBLE HUNG WINDOW	3'-0" X 5'-0"	15.0	1	15.0	0.25	3.8	LOW E-366 GLASS
	JELD-WEN PREMIUM INSULATED VINYL DOUBLE HUNG WINDOW	2'-6" X 4'-6"	11.3	2	22.6	0.25	5.7	LOW E-366 GLASS
LAUNDRY	VELUX INSULATED ROOF WINDOW	2'-0" X 2'-0"	4.0	1	4.0	0.50	2.0	
					614.7		144.4	

NOTE: 4" OPENING LIMIT CONTROL CONFORMING WITH ASTM-F2090



SECTION E
SCALE 3/8" 1'-0"

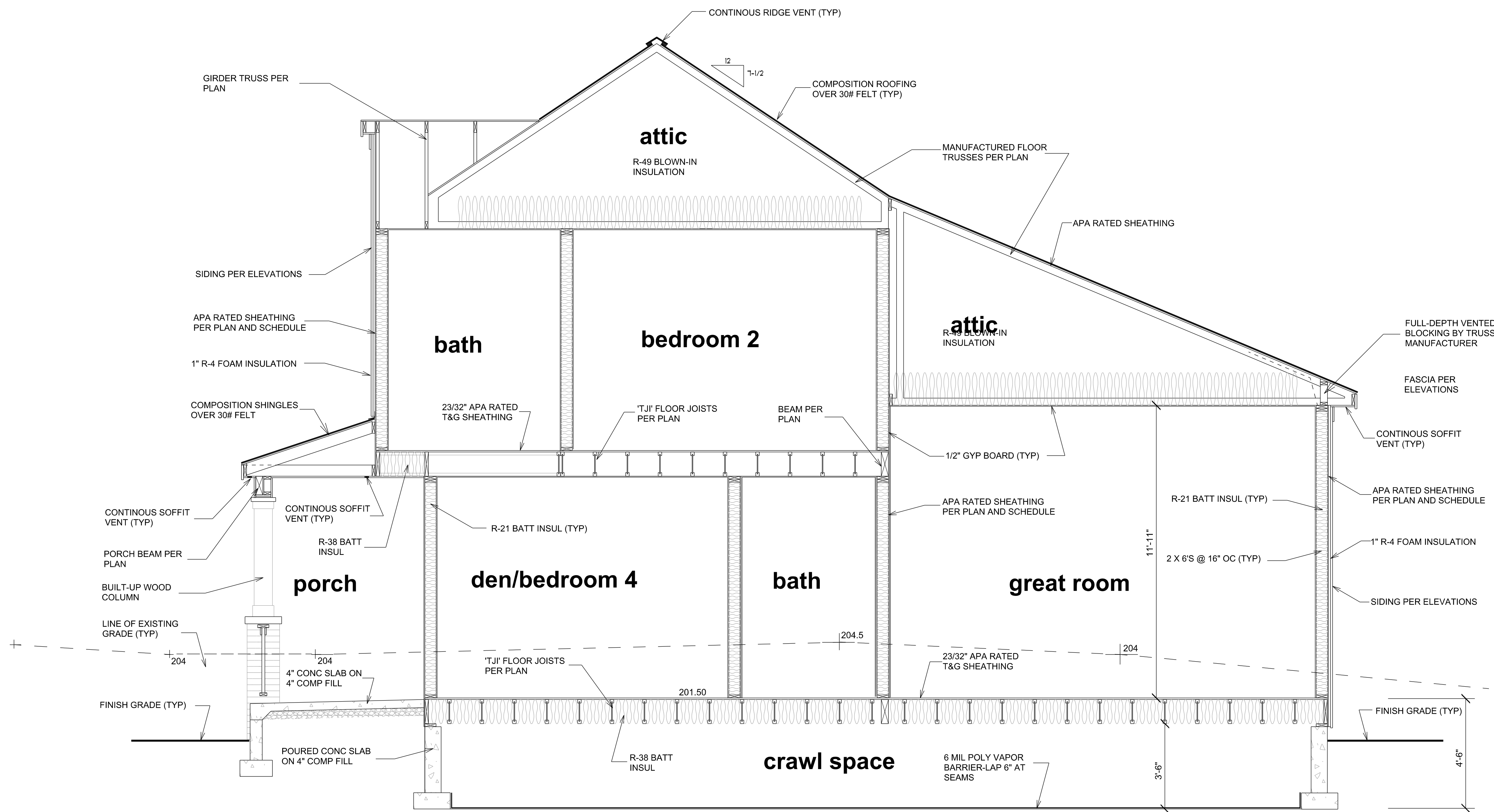
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SECTION F
SCALE 3/8" 1'-0"

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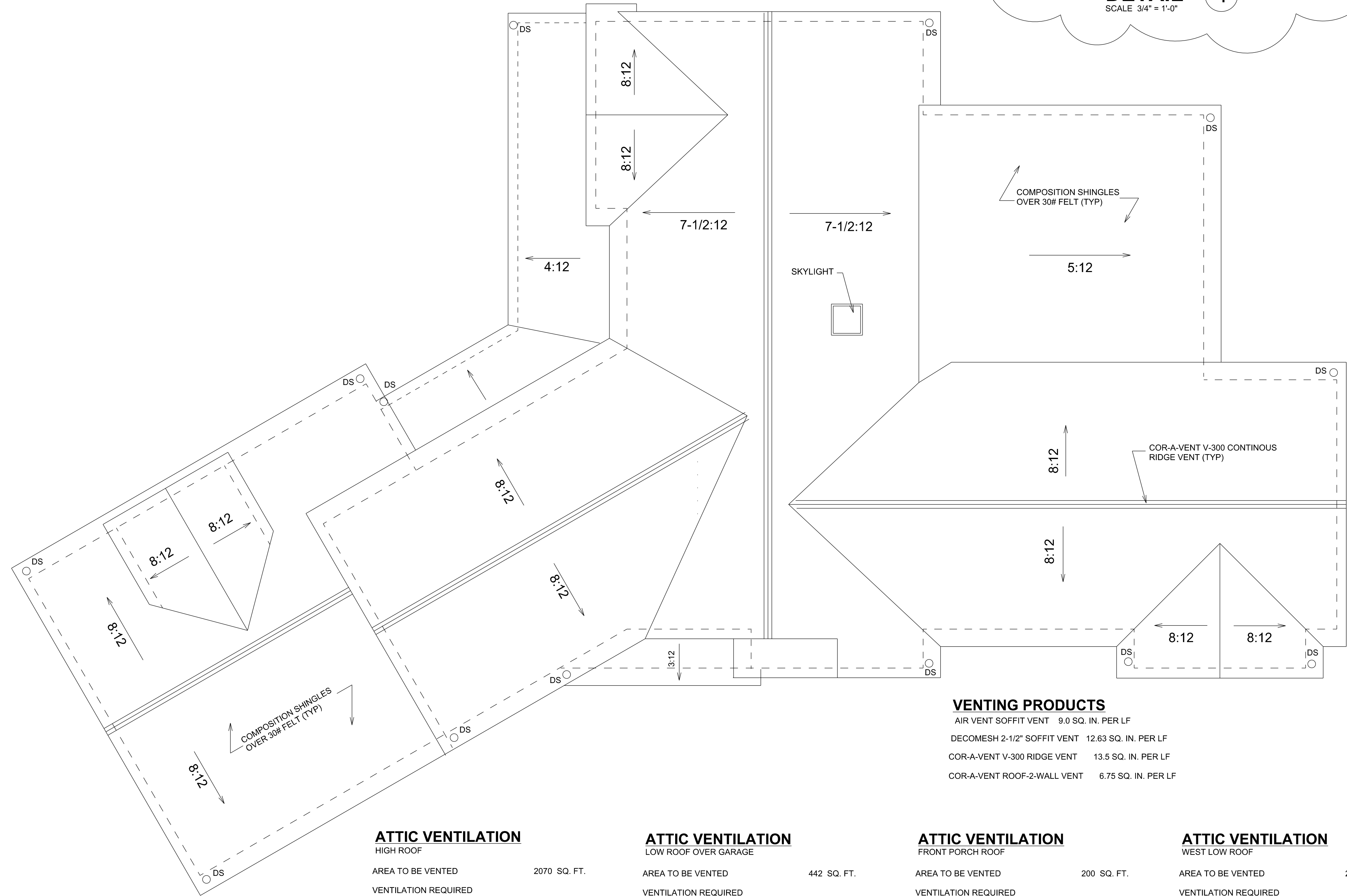
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VENTING PRODUCTS

AIR VENT SOFFIT VENT	9.0 SQ. IN. PER LF
DECOMESH 2-1/2' SOFFIT VENT	12.63 SQ. IN. PER LF
COR-A-VENT V-300 RIDGE VENT	13.5 SQ. IN. PER LF
COR-A-VENT ROOF-2-WALL VENT	6.75 SQ. IN. PER LF

ATTIC VENTILATION
HIGH ROOF

AREA TO BE VENTED	2070 SQ. FT.
VENTILATION REQUIRED 2070 X 144/150 =	1987 SQ. IN.
VENTILATION PROVIDED (102) LF CONTINUOUS SOFFIT VENT AT 12.63 SQ. IN. PER FT	1288 SQ. IN.
80 LF CONTINUOUS RIDGE VENT AT 13.5 SQ. IN. PER LF	1377 SQ. IN.
TOTAL VENTILATION PROVIDED	2665 SQ. IN.

ATTIC VENTILATION
LOW ROOF OVER GARAGE

AREA TO BE VENTED	442 SQ. FT.
VENTILATION REQUIRED 442 X 144/150 =	424 SQ. IN.
VENTILATION PROVIDED (46) LF CONTINUOUS SOFFIT VENT AT 9 SQ. IN. PER LF	414 SQ. IN.
(18) LF CONTINUOUS RIDGE VENT AT 13.5 SQ. IN. PER LF	243 SQ. IN.
(7) LF CONTINUOUS ROOF-TO-WALL VENT AT 6.75 SQ. IN. PER LF	47 SQ. IN.
TOTAL VENTILATION PROVIDED	704 SQ. IN.

ATTIC VENTILATION
FRONT PORCH ROOF

AREA TO BE VENTED	200 SQ. FT.
VENTILATION REQUIRED 200 X 144/150 =	192 SQ. IN.
VENTILATION PROVIDED (36) LF CONTINUOUS SOFFIT VENT AT 9 SQ. IN. PER LF	324 SQ. IN.
(36) LF CONTINUOUS ROOF TO WALL VENT AT 6.75 SQ. IN. PER LF	243 SQ. IN.
TOTAL VENTILATION PROVIDED	567 SQ. IN.

ATTIC VENTILATION
WEST LOW ROOF

AREA TO BE VENTED	25 SQ. FT.
VENTILATION REQUIRED 25 X 144/150 =	24 SQ. IN.
VENTILATION PROVIDED (12) LF CONTINUOUS SOFFIT VENT AT 9 SQ. IN. PER LF	108 SQ. IN.
(6) LF CONTINUOUS ROOF TO WALL VENT AT 6.75 SQ. IN. PER LF	41 SQ. IN.
TOTAL VENTILATION PROVIDED	149 SQ. IN.

ROOF PLAN
SCALE 1/4" = 1'-0"

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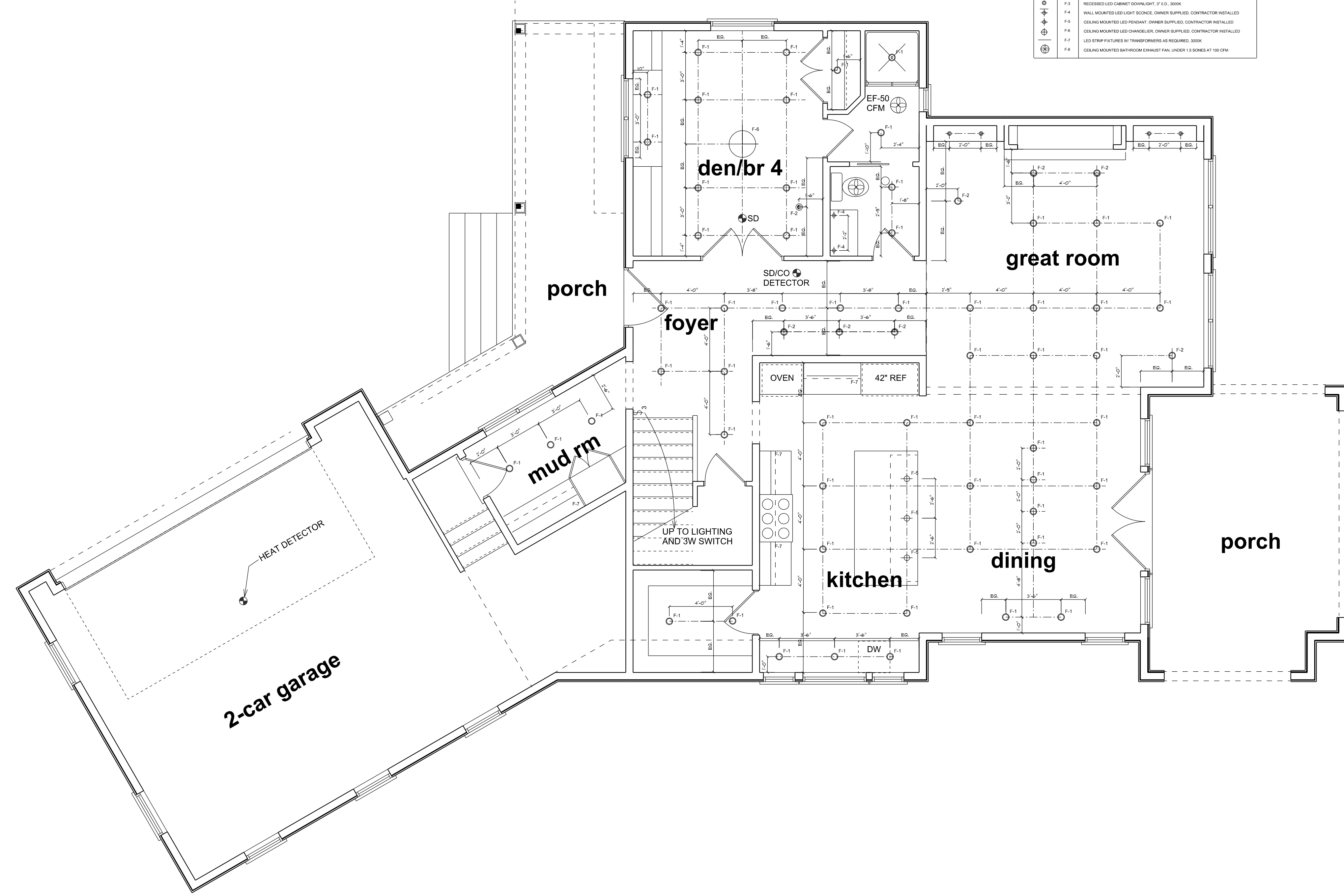
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MAIN LEVEL REFLECTED CEILING PLAN
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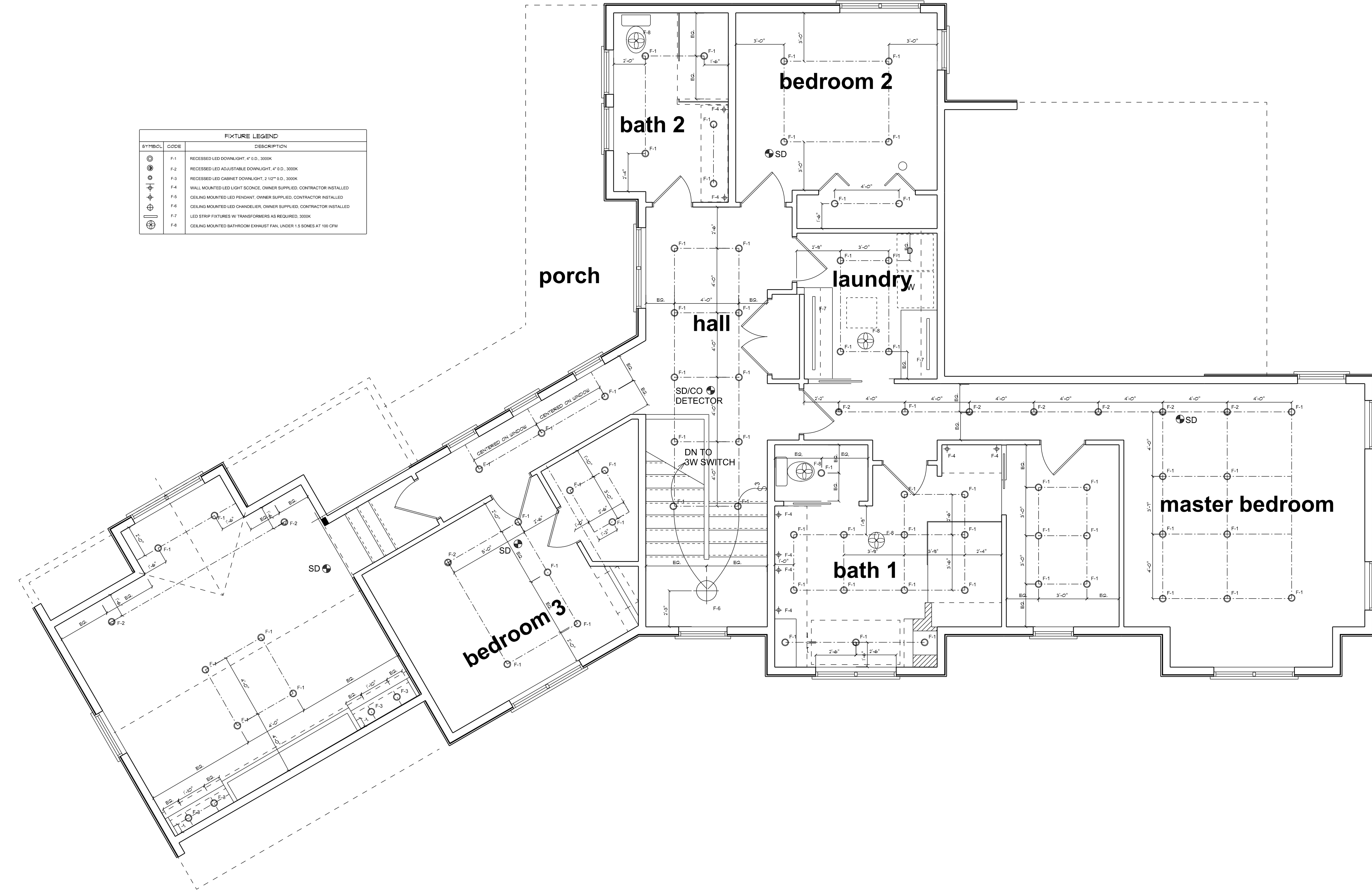
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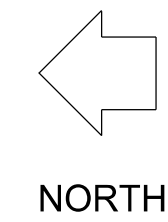
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UPPER LEVEL REFLECTED CEILING PLAN
SCALE 1/4" = 1'-0"



NORTH

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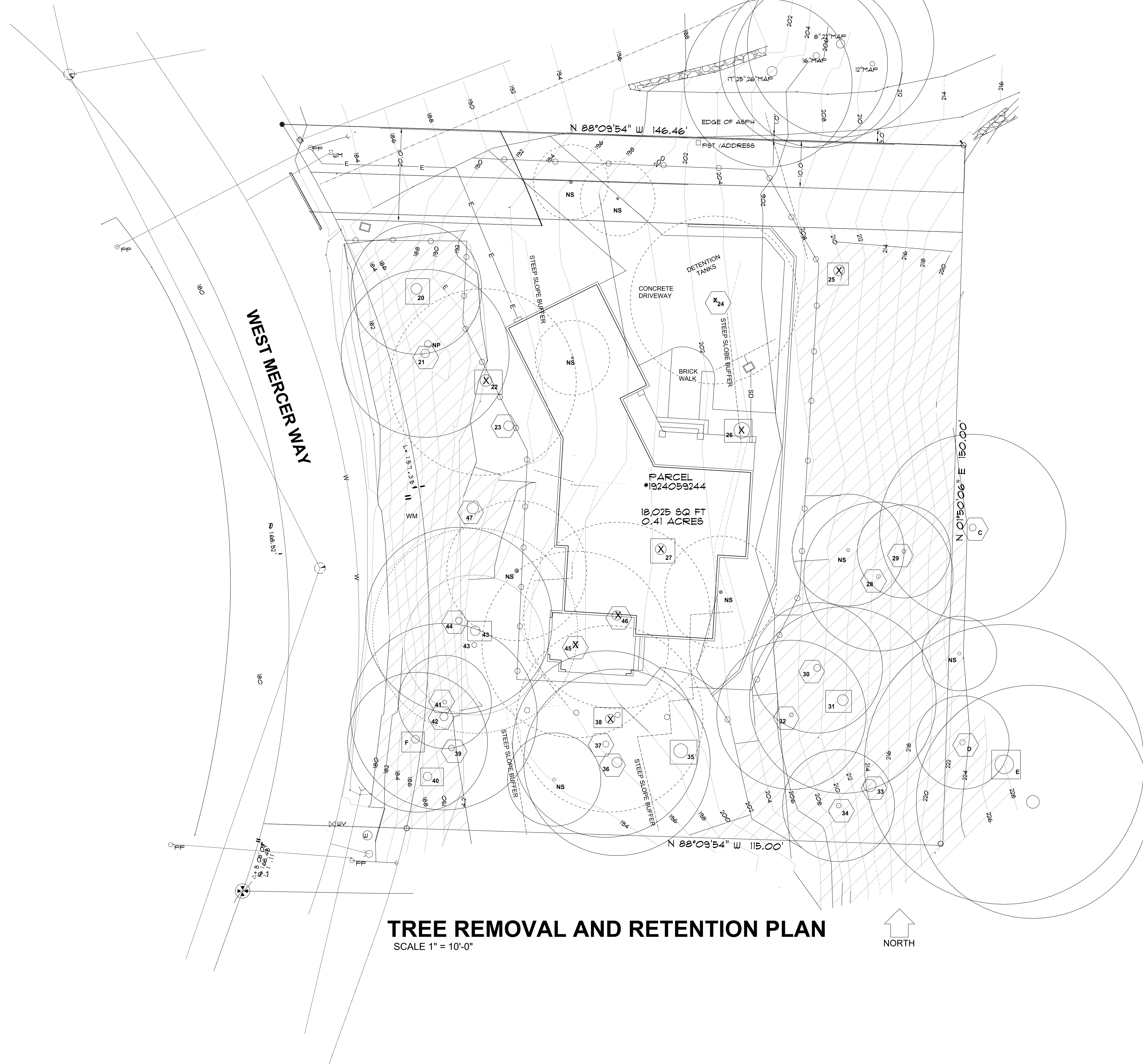
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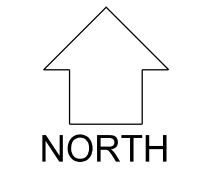
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14



TREE REMOVAL AND RETENTION PLAN
SCALE 1" = 10'-0"



- ASPHALT SURFACE
- BUILDING
- CENTERLINE ROW
- CULVERT PIPE
- DITCH (FLOWLINE)
- FIRE HYDRANT
- GUY ANCHOR
- CATCH BASIN (TYPE 1)
- MONUMENT IN CASE (FOUND)
- POST
- POWER (OVERHEAD)
- POWER POLE
- IRON PIPE (FOUND)
- RESUR # CAP (SET)
- ROCKERY
- SEWER LINE
- SEWER MANHOLE
- STORM DRAIN LINE
- SIZE TYPE TREE (AS NOTED)
- WATER M4
- WATER LINE
- WATER METER
- WATER VALVE
- STEEP SLOPE AREA

CROSS-HATCHED AREAS
DESIGNATE STEEP SLOPE
AREAS

- LIMITS OF CLEARING, GRADING AND EXCAVATION
- DRIP LINES OF TREES TO BE REMOVED
- LINE OF STEEP SLOPE BUFFERS
- W — WATER SERVICE
- SD — STORMWATER DRAIN SYSTEM
- SS — SANITARY SEWER
- E — UNDERGROUND ELECTRICAL SERVICE
- WATER METER
- EXCEPTIONAL TREES WITH DIAMETER OF 24" OR MORE
- EXCEPTIONAL TREES WITH DIAMETER OF LESS THAN 24"

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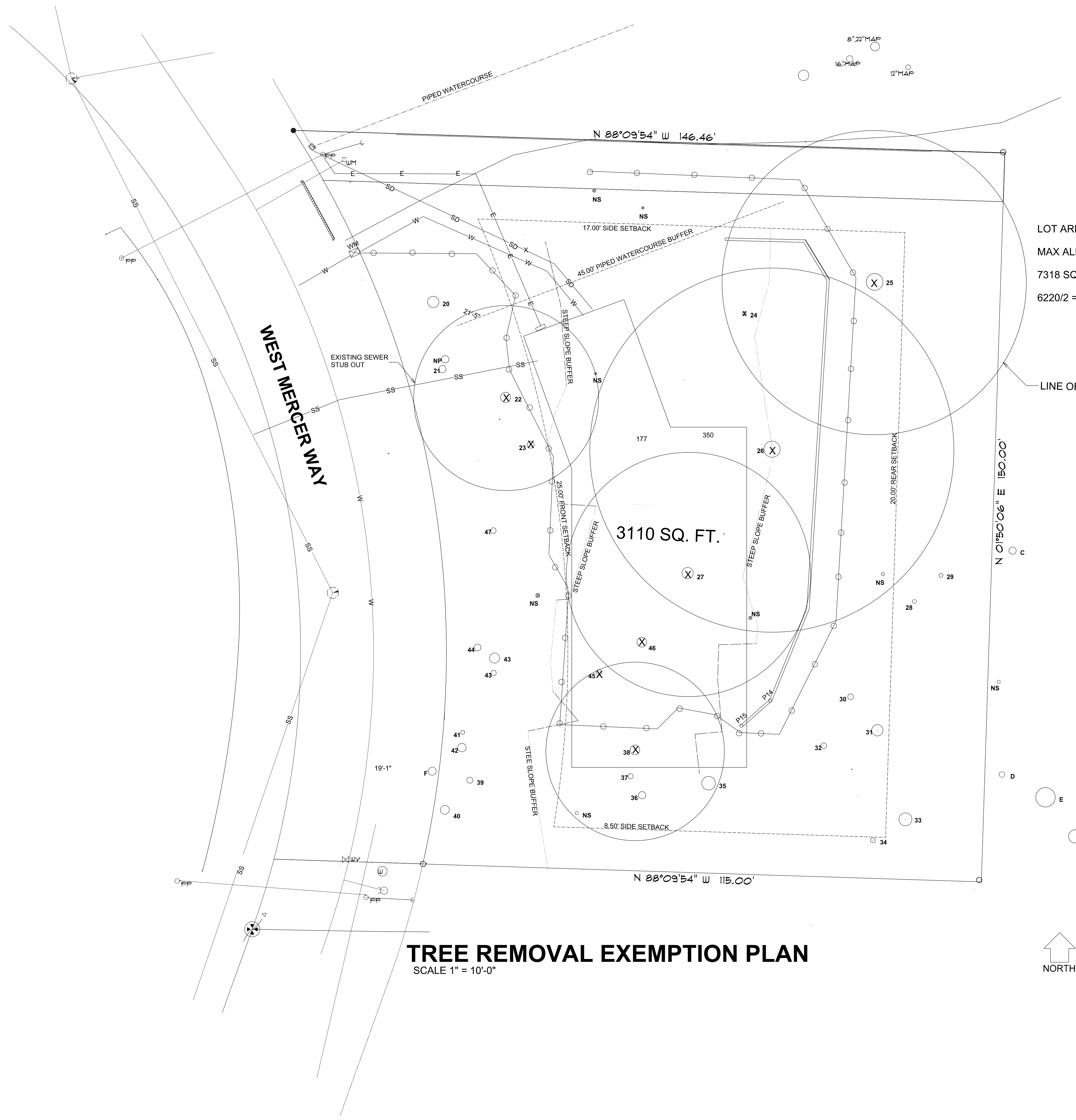
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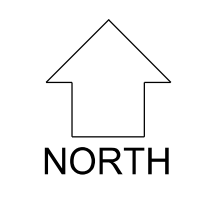
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LOT AREA 18,295 SQ. FT.
 MAX ALLOWABLE GROSS SQUARE FOOTAGE = 7318 SQ. FT. (40 %)
 7318 SQ. FT. X 85% = 6220 SQ. FT.
 6220/2 = 3110 SQ. FT. PER FLOOR

- LEGEND**
- ○ TREE PROTECTION FENCING AND LIMITS OF CLEARING, GRADING AND EXCAVATION
 - W — WATER SERVICE
 - SD — STORMWATER DRAIN SYSTEM
 - SS — SANITARY SEWER
 - E — UNDERGROUND ELECTRICAL SERVICE
 - ⊠ WATER METER

TREE REMOVAL EXEMPTION PLAN
 SCALE 1" = 10'-0"



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STRUCTURAL NOTES

- CODE: IRC, 2018 EDITION.
- LOADS:
ROOF L.L.: 25 PSF (SNOW)
FLOOR L.L.: 40 PSF
DECK L.L.: 60 PSF
SEISMIC: SITE CLASS = D
S_s = 1.439g
S₁ = 0.552g
S_{0.5} = 0.599g
S_{D1} = 0.552g
R = 6.5 (WOOD SHEAR WALL)
WIND: 110 M.P.H. (EXPOSURE "B"); 1_w = 1.0
SOIL BEARING: 1500 PSF PER SOIL'S REPORT BY NELSON GEOTECHNICAL ASSOCIATES, INC. SEPTEMBER 27, 2021, MEMORANDUM DATE 8-6-21 AND LETTER DATE 12-17-21. BOTTOM OF ALL FOUNDATION SHALL BE MINIMUM OF 18" BELOW GRADE.
- CONCRETE:
F'_c = 2,500 PSI
F'_c = 3,000 PSI AT RETAINING WALLS AND RETAINING WALL FOOTINGS.
MIXING AND PLACING OF ALL CONCRETE AND SELECTION OF MATERIALS SHALL BE IN ACCORDANCE WITH THE ACI CODE 318. PROPORTIONING OF AGGREGATE TO CEMENT SHALL BE SUCH AS TO PRODUCE A DENSE WORKABLE MIX WITH 4" MAXIMUM SLUMP, WHICH CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER. 3/4" CHAMFER ALL EXPOSED EDGES, UNLESS INDICATED OTHERWISE ON ARCHITECTURAL DRAWINGS. AIR ENTRAIN ALL CONCRETE EXPOSED TO WEATHER WITH 3% TO 6% AIR BY VOLUME.
- REINFORCING: DEFORMED BARS GRADE 40 (f_y=40,000 PSI) AND GRADE 60 (f_y=60,000 PSI) AT RETAINING WALLS AND RETAINING WALL FOOTINGS. LAP ALL CONTINUOUS REINFORCING BARS 48 BAR DIAMETERS 2'-0" MINIMUM, UNLESS NOTED OTHERWISE. PROVIDE CORNER BARS (2'-0" BEND) FOR ALL HORIZONTAL REINFORCING BARS IN ACCORDANCE WITH THE "ACI DETAILING MANUAL".
CONCRETE COVER TO MAIN REINFORCEMENT SHALL BE:
FORMED SURFACES -
WEATHER FACE = 1 1/2"
EARTH FACE = 2"
INTERIOR FACE = 3/4"
FOOTINGS CAST AGAINST EARTH = 3"
- METALS: ALL MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A-36 (f_y=36,000 PSI) UNLESS NOTED OTHERWISE. MACHINE BOLTS TO BE A-307. ANCHOR BOLTS INTO CONCRETE SHALL BE PLACED ACCURATELY ACCORDING TO SIZE AND LOCATIONS SHOWN AND PROVIDED FOR BY OTHERS. ALL EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT TZ OR APPROVED EQUAL. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR INSTALLATION.
- CARPENTRY:
ALL NAILS TO BE COMMON NAILS. LUMBER GRADES:
4X BEAMS = D.F. #1
6X BEAMS = D.F. #1
POSTS = D.F. #1
BLOCKING = D.F. #2
2X STUDS = D.F. #2
LEDGERS = D.F. #2
ALL LUMBER NOT NOTED ABOVE TO BE D.F. #2 OR BETTER. ALL LUMBER SHALL CONFORM TO "WWPA GRADING RULES FOR WESTERN LUMBER-LATEST EDITION" AND EACH PIECE SHALL BEAR A VALID GRADE STAMP THAT IS NOT TO BE REMOVED FROM THE STRUCTURAL MEMBER. BOLT HEADS AND NUTS BEARINGS AGAINST WOOD SHALL BE PROVIDED WITH STANDARD CUT WASHERS. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
- PLYWOOD:
ROOF SHEATHING = 1/2" CDX PLYWOOD WITH EXTERIOR GLUE, INDEX 32/16 OR 24/0.
FLOOR SHEATHING = 3/4" T.&G. PLYWOOD, INDEX 48/24.
WALL SHEATHING = 1/2" CDX PLYWOOD WITH EXTERIOR GLUE, ALL SHEATHING SHALL CONFORM TO U.S. PRODUCT STANDARD. NAILING SHALL BE AS INDICATED ON PLAN.
- GLU-LAMINATED BEAMS:
GLU-LAMINATED WOOD BEAMS, SHALL BE KILN DRIED, INDUSTRIAL APPEARANCE, STRESS GRADE COMBINATION 24F-V4 (f_b=2400 PSI, f_v=165 PSI) AT SIMPLE SPAN BEAM AND STRESS GRADE COMBINATION 24F-V8 (f_b=2400 psi, f_v=165 psi) AT CANTILEVERED BEAMS. PROVIDE TOP TENSION LAMS AT CANTILEVERS.
- TRUSSES:
TRUSSES ARE AS NOTED ON THE PLANS AND FABRICATED IN ACCORDANCE WITH 2018 IRC. EACH TRUSS SHALL BEAR THE QUALITY CONTROL STAMP, MANUFACTURER PLANTS NAME/ADDRESS, DESIGN LOAD AND MAXIMUM SPACING. TRUSS FABRICATOR TO PROVIDE ALL REQUIRED BRIDGING BLOCKING, BOTH PERMANENT AND ERECTION. DESIGN CRITERIA SHALL MEET OR EXCEED THE FOLLOWING:

ROOF TRUSS LOADING:
LIVE LOAD = 25 PSF (SNOW)
DEAD LOAD = 15 PSF
TOTAL LOAD DEFLECTION = L/240
LIVE LOAD DEFLECTION = L/360

FLOOR TRUSS LOADING:
LIVE LOAD = 40 PSF FOR FLOORS & 60 PSF FOR DECKS
DEAD LOAD = 15 PSF
TOTAL LOAD DEFLECTION = L/360
LIVE LOAD DEFLECTION = L/480

- SHOP DRAWINGS: SUBMIT 3-SETS OF SHOP DRAWINGS TO ENGINEER FOR REVIEW FOR DESIGN INTENT ONLY PRIOR TO FABRICATION AND AFTER CONTRACTOR REVIEW FOR ROOF AND FLOOR TRUSSES. ALL DIMENSIONS AND QUANTITIES MUST BE VERIFIED AND APPROVED BY THE CONTRACTOR AND IS NOT RESPONSIBILITY OF THE ENGINEER OF RECORD.
- SPECIAL INSPECTION: PROVIDE SPECIAL INSPECTION PER 2018 IBC. ALL INSPECTION REPORTS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT, ARCHITECT, ENGINEER AND OWNER FOR REVIEW.
FOLLOWING STRUCTURAL OBSERVATIONS ARE REQUIRED FOR:
A. SHEAR WALL, DIAPHRAGM NAILING, STRAPS AND HOLDOWNS.
B. EXPANSION AND EPOXY GROUT ANCHORS.
- SPECIAL CONDITION: DURING CONSTRUCTION THE CONTRACTOR SHALL COORDINATE ALL TRADES AND VERIFY DIMENSIONS IN FIELD. OBTAIN ARCHITECT'S APPROVAL PRIOR TO ALL FIELD CHANGES. SEE ARCHITECTURAL DRAWINGS FOR ALL FLOOR OPENING DIMENSIONS AND LOCATIONS, FLOOR FINISHES, ETC. CONTRACTOR SHALL PROVIDE PERMANENT AND TEMPORARY SHORING AS REQUIRED.

NAILING SCHEDULE TABLE 2304.9.1

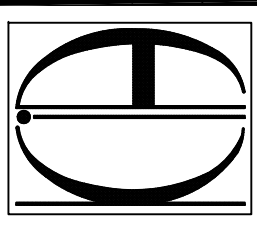
(UNLESS NOTED OTHERWISE ON DRAWINGS)

CONNECTION	NAILS	
1 JOIST TO SILL OR GIRDER: TOENAIL	3 - 8d COMMON (2-1/2" X 0.131"),	3 - 3" X 0.131" NAILS
2 BRIDGING TO JOIST: TOENAIL EACH END	2 - 8d COMMON (2-1/2" X 0.131"),	2 - 3" X 0.131" NAILS
3 1" X 6" (25mm X 152mm) SUBFLOOR OR LESS TO EACH JOIST: FACE NAIL		2 - 8d COMMON (2-1/2" X 0.131")
4 WIDER THAN 1" X 6" (25mm X 152mm) SUBFLOOR TO EACH JOIST: FACE NAIL		3 - 8d COMMON (2-1/2" X 0.131")
5 2" (51mm) SUBFLOOR TO JOIST OR GIRDER: BLIND AND FACE NAIL		2 - 16d COMMON (3-1/2" X 0.162")
6 SOLE PLATE TO JOIST OR BLOCKING: TYPICAL FACE NAIL	16d (3-1/2" X 0.131") AT 16" O.C.,	3" X 0.131" NAILS AT 8" O.C.
SOLE PLATE TO JOIST OR BLOCKING: AT BRACED WALL PANELS	3 - 16d (3-1/2" X 0.131") AT 16" O.C.,	4 - 3" X 0.131" NAILS AT 16" O.C.
7 TOP PLATE TO STUD: END NAIL	2 - 16d COMMON (3-1/2" X 0.162"),	3 - 3" X 0.131" NAILS
8 STUD TO SOLE PLATE: TOENAIL	4 - 8d COMMON (2-1/2" X 0.131"),	3 - 3" X 0.131" NAILS
STUD TO SOLE PLATE: END NAIL	2 - 20d COMMON (3-1/2" X 0.162"),	3 - 3" X 0.131" NAILS
9 DOUBLE STUDS: FACE NAIL	16d (3-1/2" X 0.131") AT 16" O.C.,	3" X 0.131" NAILS AT 8" O.C.
10 DOUBLE TOP PLATES: TYPICAL FACE NAIL	16d (3-1/2" X 0.135") AT 16" O.C.,	3" X 0.131" NAILS AT 12" O.C.
DOUBLE TOP PLATES: LAP SPLICE	8 - 16d COMMON (3-1/2" X 0.135"),	12 - 3" X 0.131" NAILS
11 BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE: TOENAIL	3 - 8d COMMON (2-1/2" X 0.131"),	3 - 3" X 0.131" NAILS
12 RIM JOIST TO TOP PLATE: TOENAIL	8d (2-1/2" X 0.131") AT 6" O.C.,	3" X 0.131" NAILS AT 6" O.C.
13 TOP PLATES, LAPS AND INTERSECTIONS: FACE NAIL	2 - 16d COMMON (3-1/2" X 0.162"),	3 - 3" X 0.131" NAILS
14 CONTINUOUS HEADER, TWO PIECES	16d COMMON (3-1/2" X 0.162") AT 16" O.C. ALONG EDGE	
15 CEILING JOISTS TO PLATE: TOENAIL	3 - 8d COMMON (2-1/2" X 0.131),	5 - 3" X 0.131 NAILS
16 CONTINUOUS HEADER TO STUD: TOENAIL	4 - 8d COMMON (2-1/2" X 0.131")	
17 CEILING JOISTS, LAPS OVER PARTITIONS: FACE NAIL	3 - 16d (3-1/2" X 0.162") MIN., TABLE 2308.10.4.1	
(SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	4 - 3" X 0.131" NAILS, 4 - 3" 14 GAGE STAPLES	
18 CEILING JOISTS TO PARALLEL RAFTER: FACE NAIL	3 - 16d (3-1/2" X 0.162") MIN., TABLE 2308.10.4.1	
(SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	4 - 3" X 0.131" NAILS	
19 RAFTER TO PLATE: TOENAIL	3 - 8d COMMON (2-1/2" X 0.131"),	3 - 3" X 0.131" NAILS
(SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)		
20 1" BRACE TO EACH STUD AND PLATE: FACE NAIL	2 - 8d COMMON (2-1/2" X 0.131"),	2 - 3" X 0.131" NAILS
21 1" X 8" SHEATHING OR LESS TO EACH BEARING: FACE NAIL	2 - 8d COMMON (2-1/2" X 0.131")	
22 WIDER THAN 1" X 8" SHEATHING TO EACH BEARING: FACE NAIL	3 - 8d COMMON (2-1/2" X 0.131")	
23 BUILT-UP CORNER STUDS	16d (3-1/2" X 0.162") AT 24" O.C.,	3" X 0.131" NAILS AT 16" O.C.
24 BUILT-UP GIRDER AND BEAMS	20d COMMON (4" X 0.192") AT 32" O.C.,	3" X 0.131" NAILS AT 24" O.C.
0	2 - 20d COMMON (4" X 0.192"),	3 - 3" X 0.131" NAILS
0	FACE NAIL AT ENDS AND AT EACH END	
25 2" PLANKS	2 - 16d COMMON (3-1/2" X 0.162") AT EACH BEARING	
26 COLLAR TIE TO RAFTER: FACE NAIL	3 - 10d COMMON (3" X 0.148"),	4 - 3" X 0.131" NAILS
27 JACK RAFTER TO HIP: TOENAIL	3 - 10d COMMON (3" X 0.148"),	4 - 3" X 0.131" NAILS
JACK RAFTER TO HIP: FACE NAIL	2 - 16d COMMON (3-1/2" X 0.162"),	3 - 3" X 0.131" NAILS
28 ROOF RAFTER TO 2-BY RIDGE BEAM: TOENAIL	3 - 16d COMMON (3" X 0.162"),	3 - 3" X 0.131" NAILS
ROOF RAFTER TO 2-BY RIDGE BEAM: FACE NAIL	2 - 16d COMMON (3-1/2" X 0.162"),	3 - 3" X 0.131" NAILS
29 JOIST TO BAND JOIST: FACE NAIL	3 - 16d COMMON (3-1/2" X 0.162"),	4 - 3" X 0.131" NAILS
30 LEDGER STRIP: FACE NAIL	3 - 16d COMMON (3-1/2" X 0.162"),	4 - 3" X 0.131" NAILS
a. COMMON OR BOX NAILS MAY BE USED EXCEPT WHERE OTHERWISE STATED.		
b. NAILS SPACED AT 6 INCHES ON CENTER AT EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS EXCEPT 6 INCHES AS SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEARWALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.		
c. COMMON OR DEFORMED SHANK (6d - 2" X 0.113; 8d - 2-1/2" X 0.131; 10d - 3" X 0.148")		
d. COMMON (6d - 2" X 0.113; 8d - 2-1/2" X 0.131; 10d - 3" X 0.148")		
e. DEFORMED SHANK (6d - 2" X 0.113; 8d - 2-1/2" X 0.131; 10d - 3" X 0.148")		
f. CORROSION-RESISTANT SIDING (6d - 1 7/8" X 0.106"; 8d - 2-3/8" X 0.128") OR CASING 9 - 6d - 2" X 0.099"; 8d - 2-1/2" X 0.113" NAILS		
g. FASTENERS SPACED 3 INCHES ON CENTER AT EXTERIOR EDGES AND 6" ON CENTER AT INTERMEDIATE SUPPORTS, WHEN USED AS STRUCTURAL SHEATHING. SPACING SHALL BE 6 INCHES ON CENTER RON THE EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS.		
h. CORROSION-RESISTANT ROOFING NAILS WITH 7/16 INCH DIAMETER HEAD AND 1-1/2 INCH LENGTH FOR 1/2 INCH SHEATHING AND 1-3/4 INCH LENGTH FOR 25/32 INCH SHEATHING		
i. CASING (1-1/2" X 0.08") OR FINISH (1-1/2" X 0.072") NAILS SPACED 6 INCHES ON PANEL EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS		
j. PANEL-SUPPORTS AT 24 INCHES CASING OR FINISH NAILS SPACED 8 INCHES ON PANEL, 12 INCHES AT INTERMEDIATE SUPPORTS.		
k. FOR ROOF SHEATHING APPLICATIONS, 8d NAILS (2-1/2" X 0.113") ARE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS.		
l. FOR ROOF SHEATHING, FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS.		
m. FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS FOR SUBFLOOR AND WALL SHEATHING AND 3 INCHES ON CENTER AT EDGES, 6 INCHES AT INTERMEDIATE SUPPORTS FOR ROOF SHEATHING		
n. FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORT.		
o. NAILING INTO P.T. LUMBER SHALL BE WITH HOT DIPPED GALVANIZED OR OTHER APPROVED CORROSION RESISTANT MATERIAL		

REVISION EDITION

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CHECKED BY: A.G.
DATE: 11-30-2021

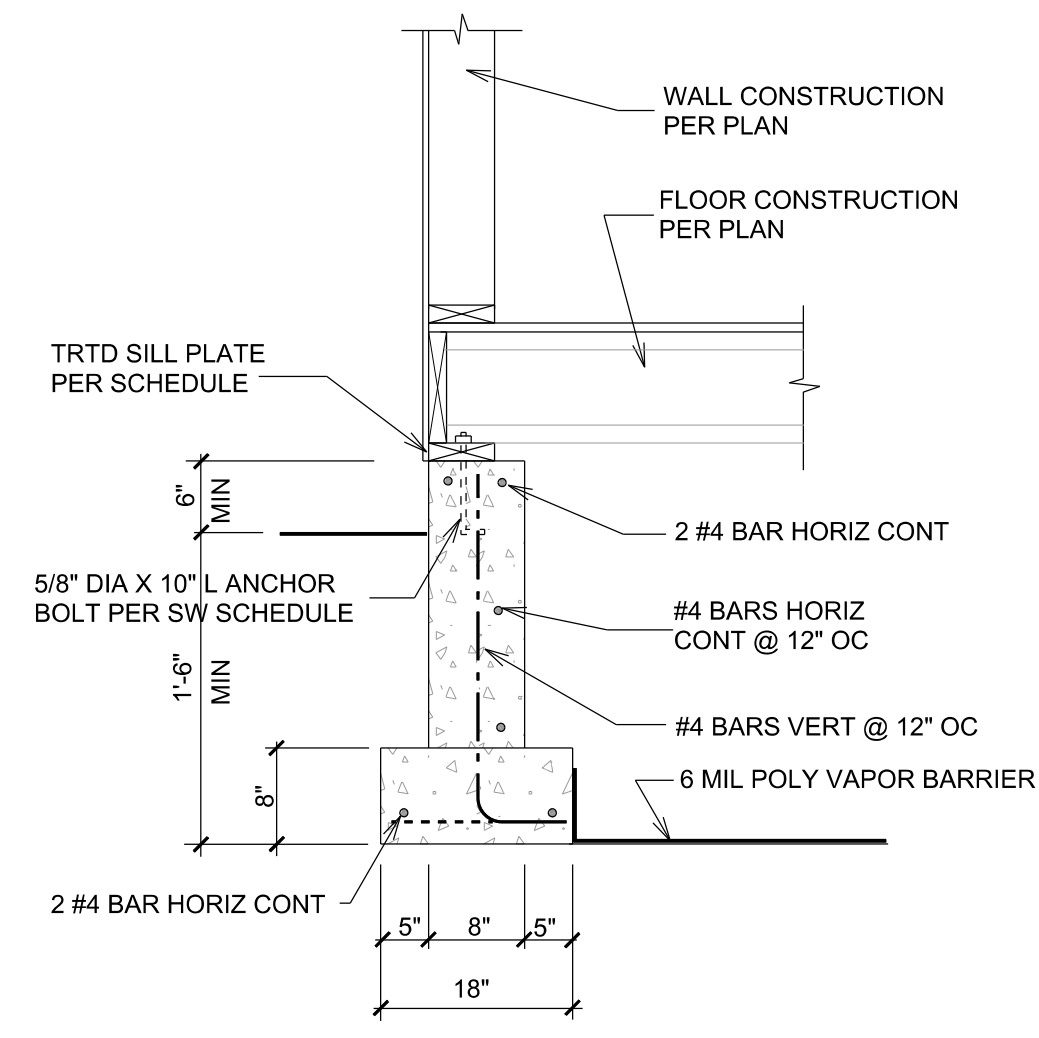


PHONE 425-351-5989
P.O. BOX 7235
BELLEVUE, WA 98008

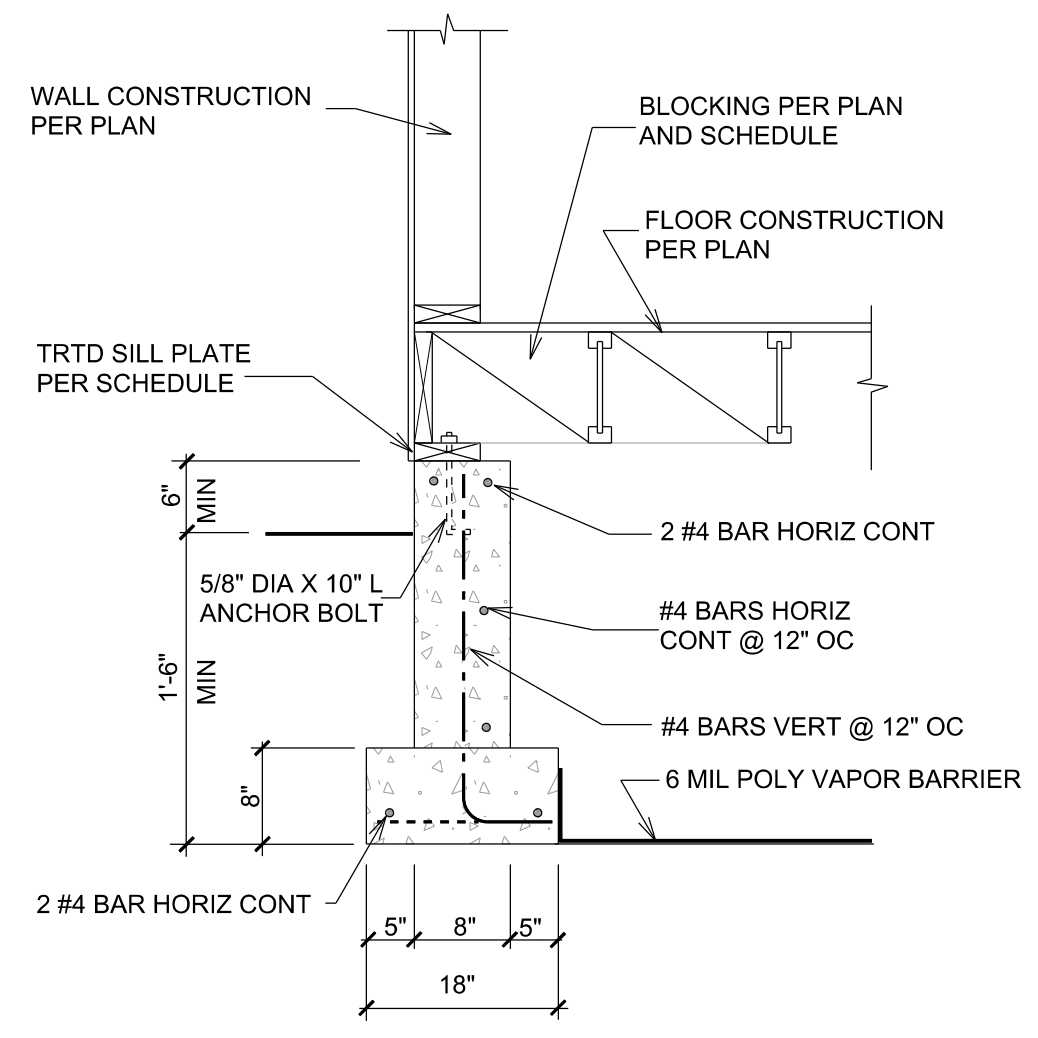
CONSULTING STRUCTURAL ENGINEERS

PROPOSED SINGLE FAMILY RESIDENCE
EDWARD & CATHERINE MORAN
5000 WEST MERCER WAY
MERCER ISLAND, WA 98040

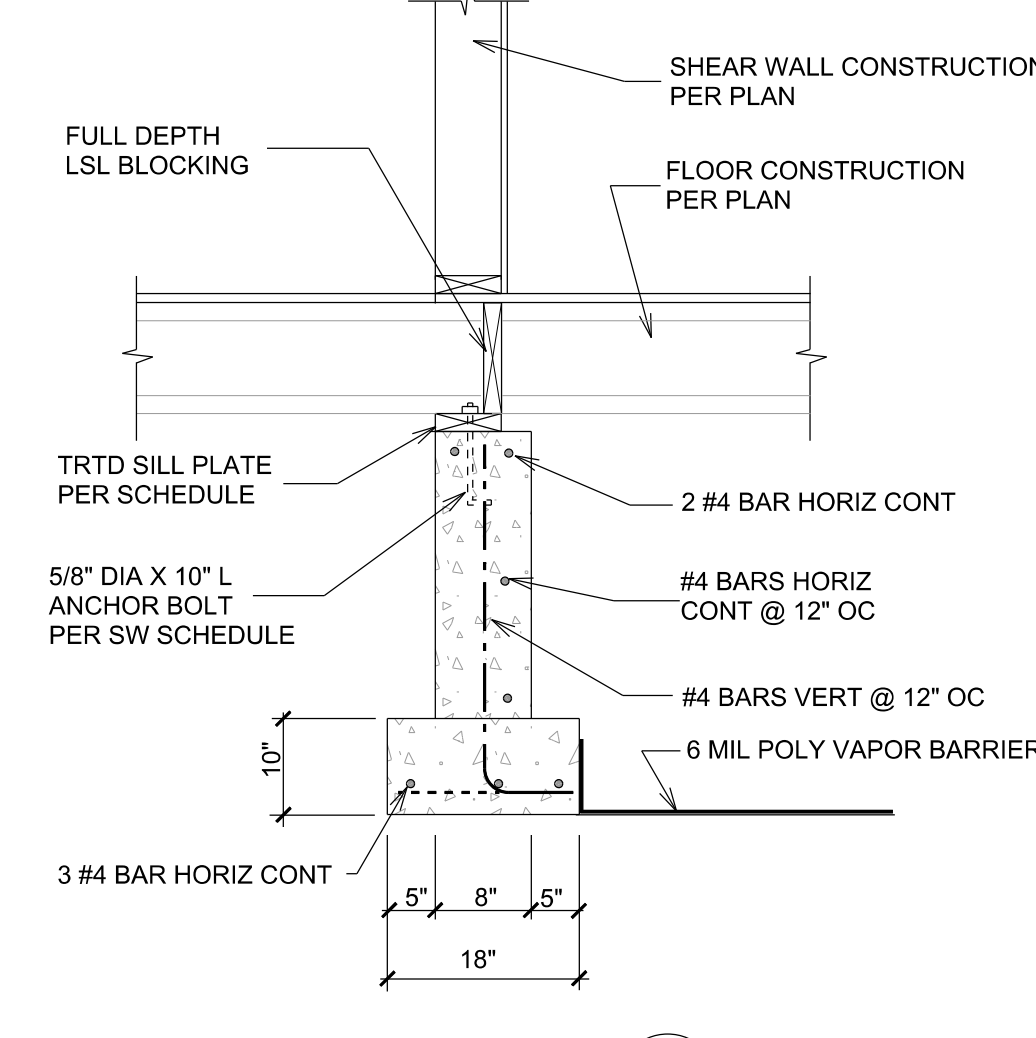
STRUCTURAL NOTES



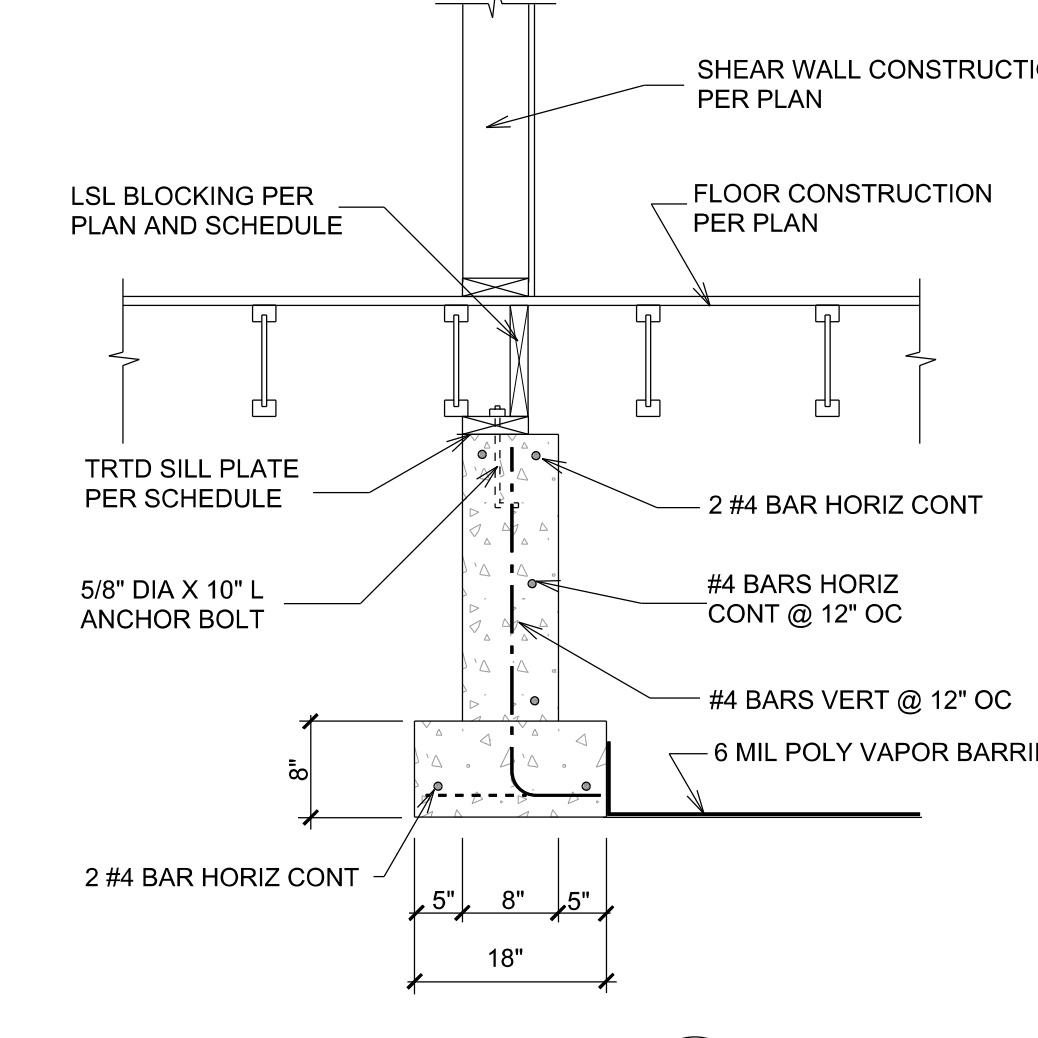
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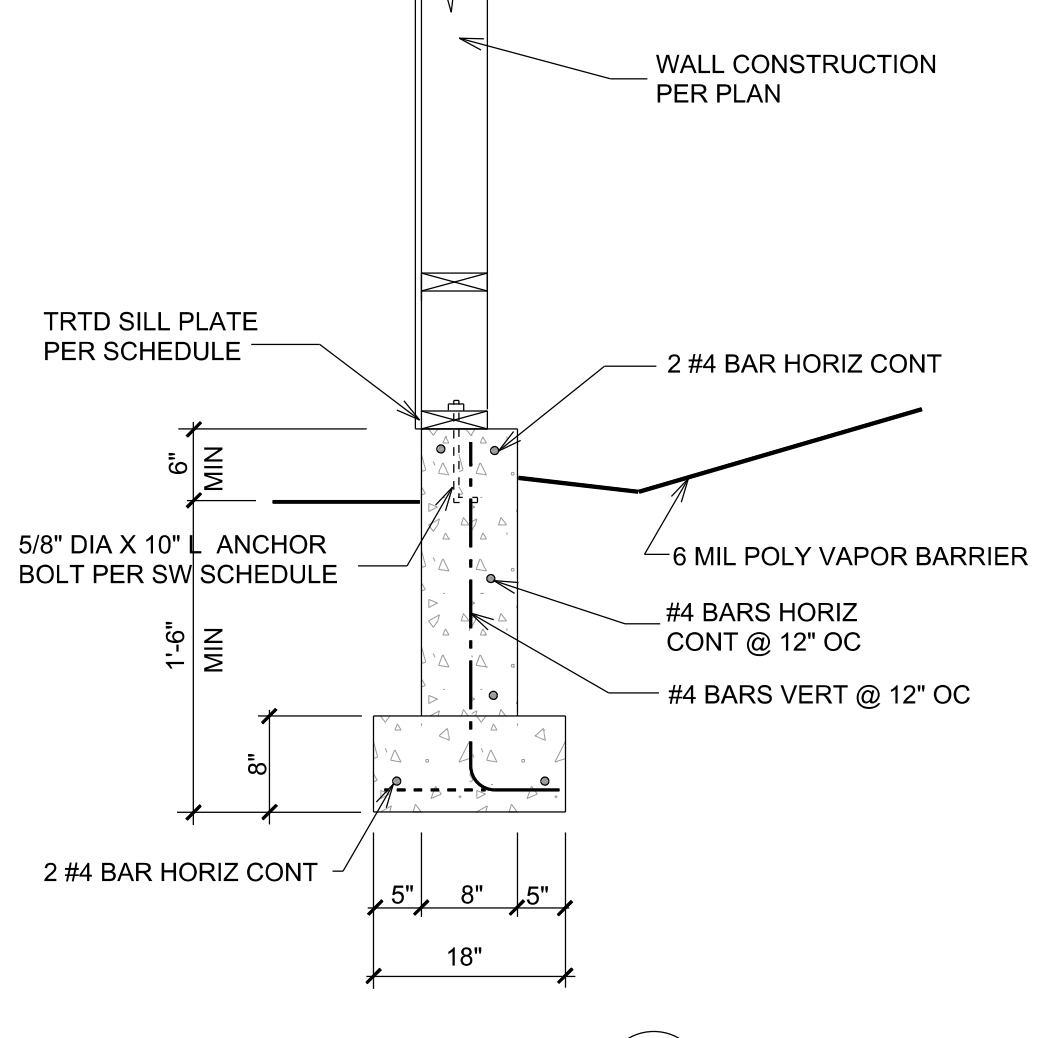
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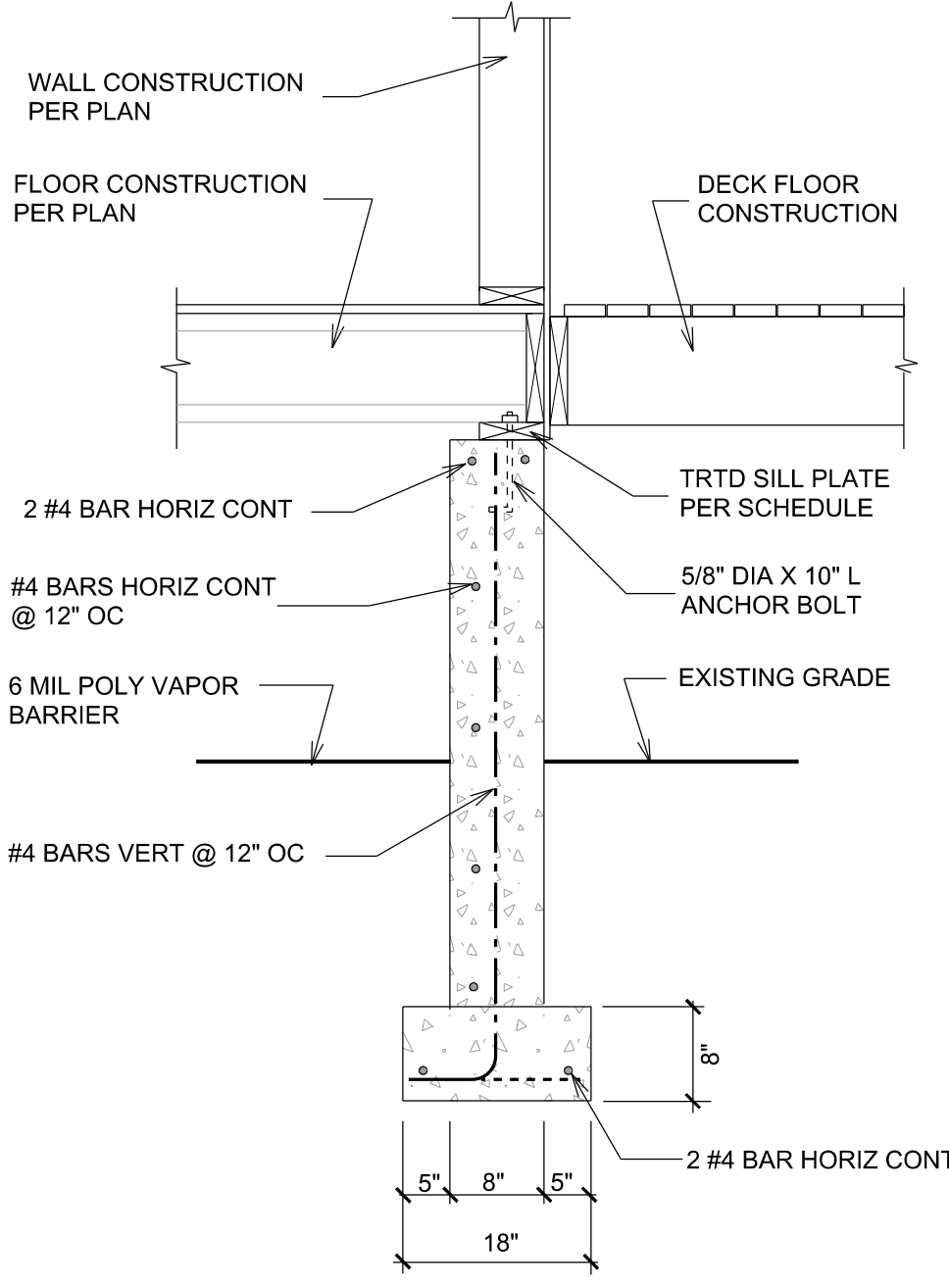
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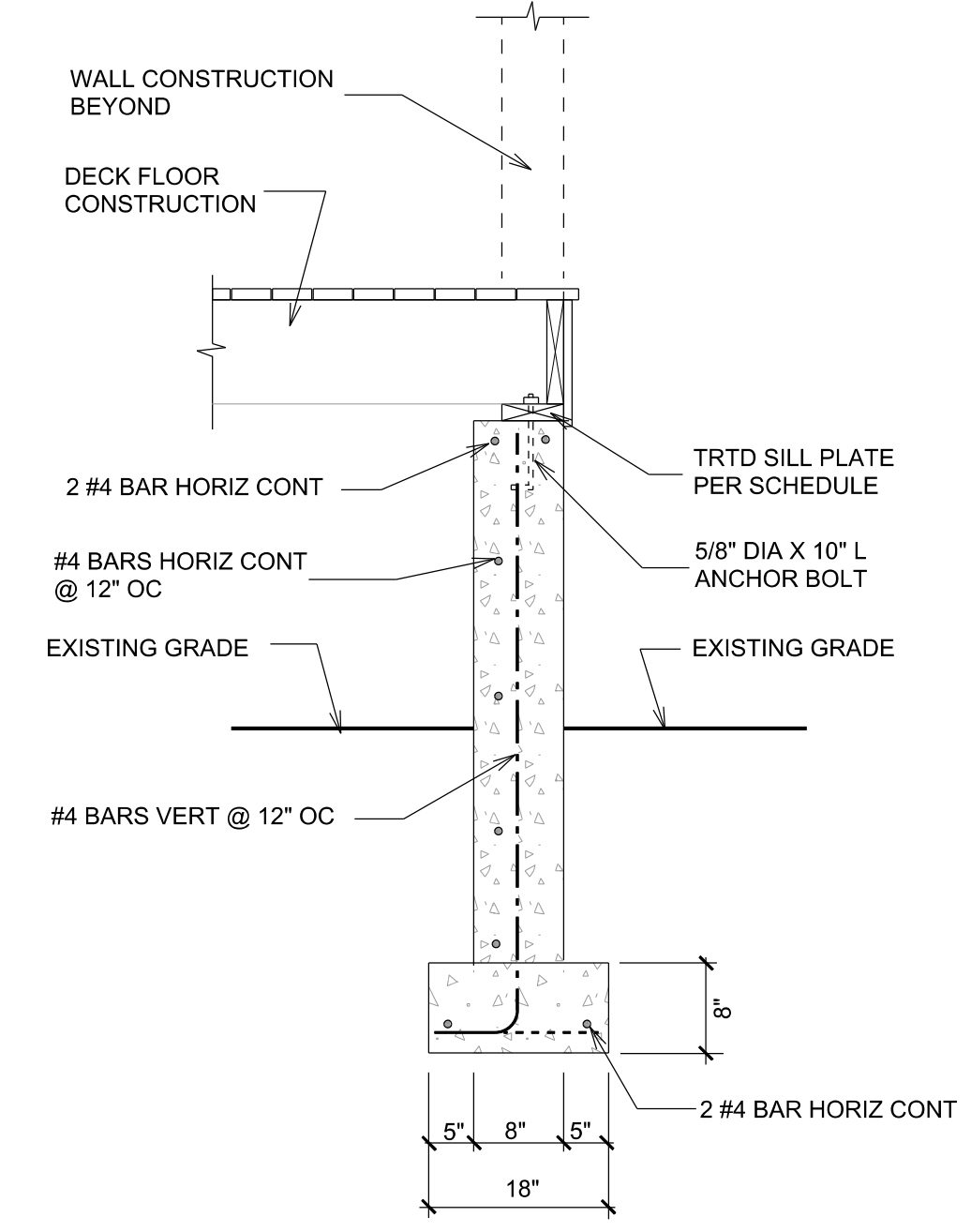
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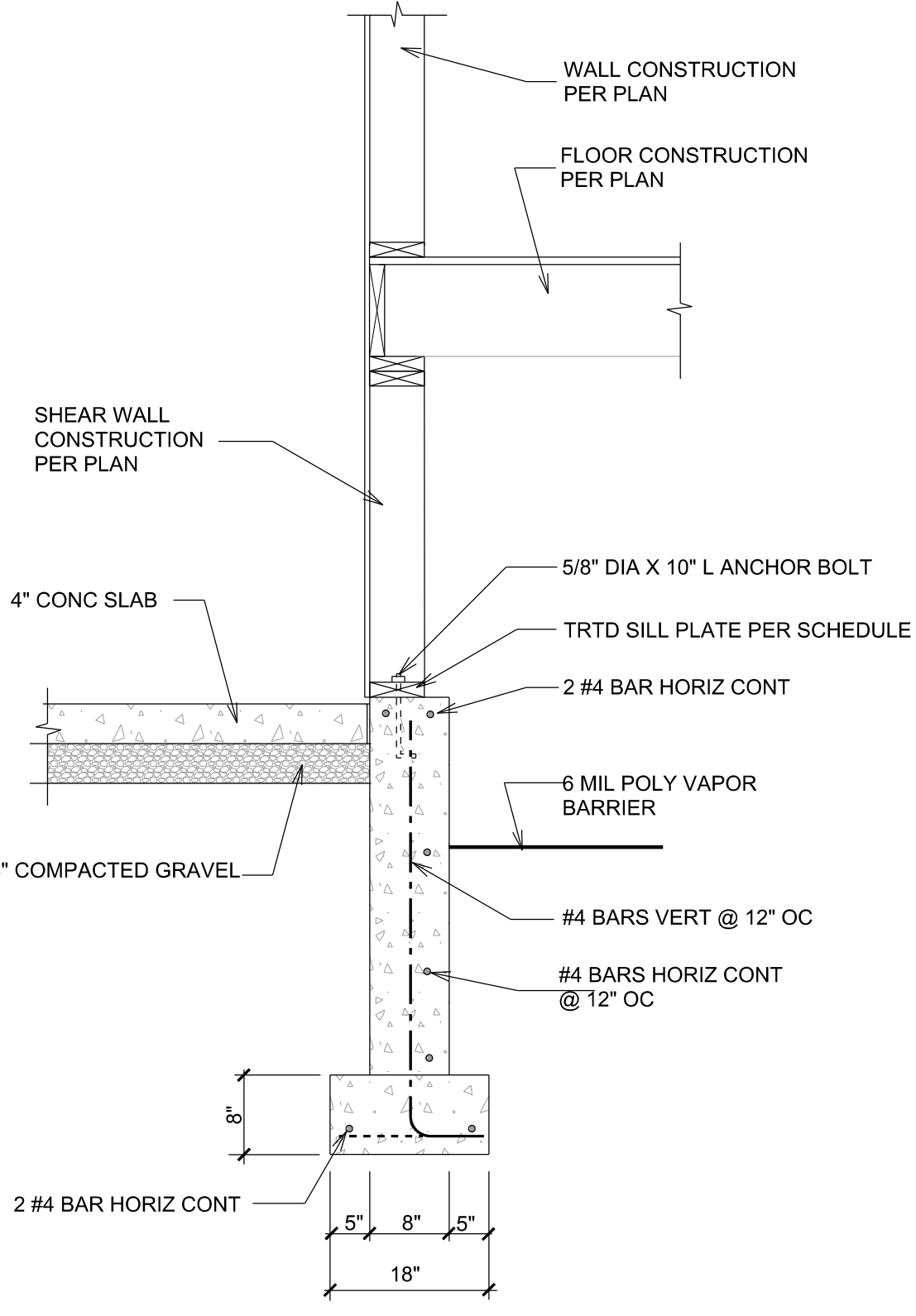
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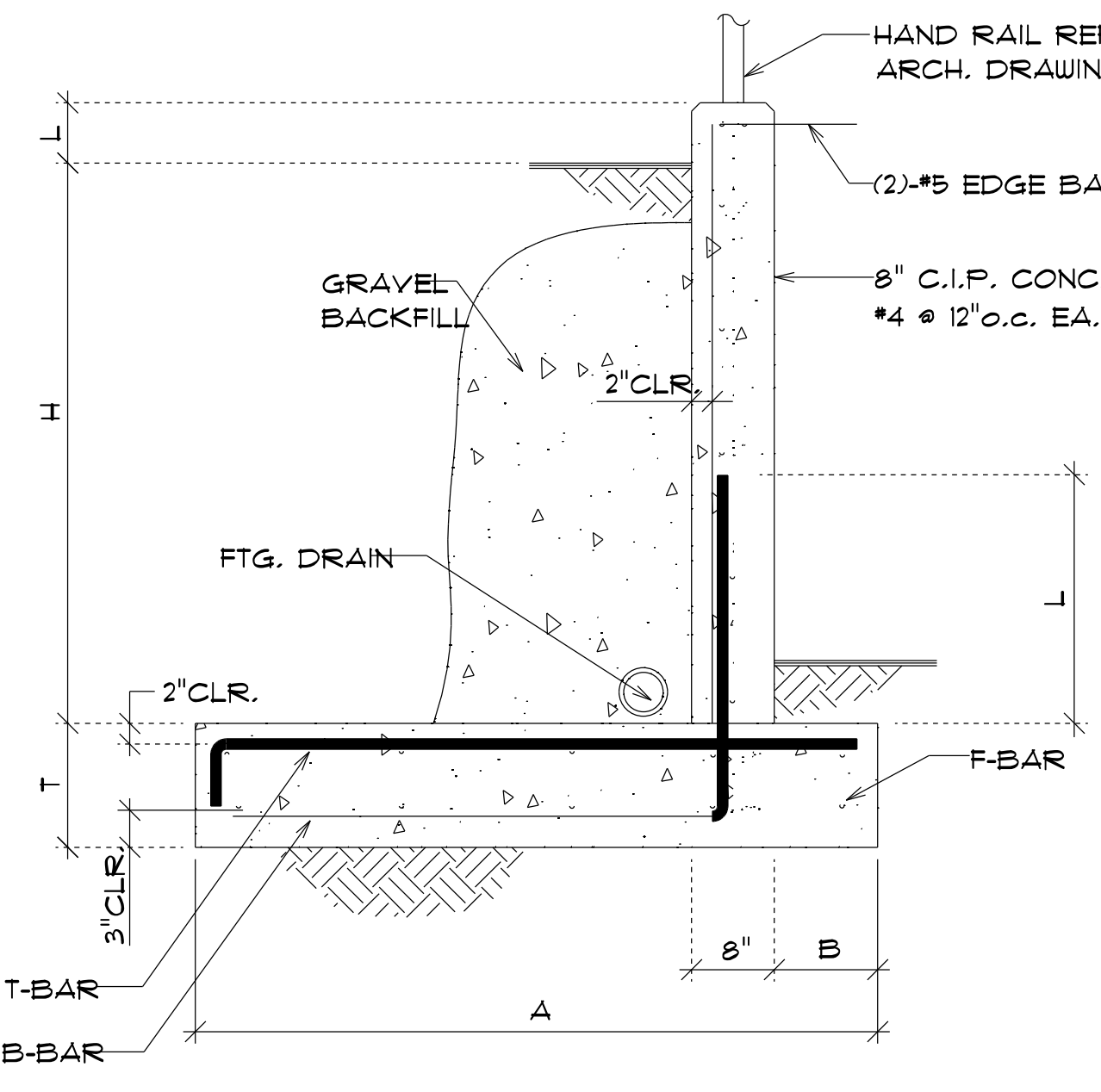
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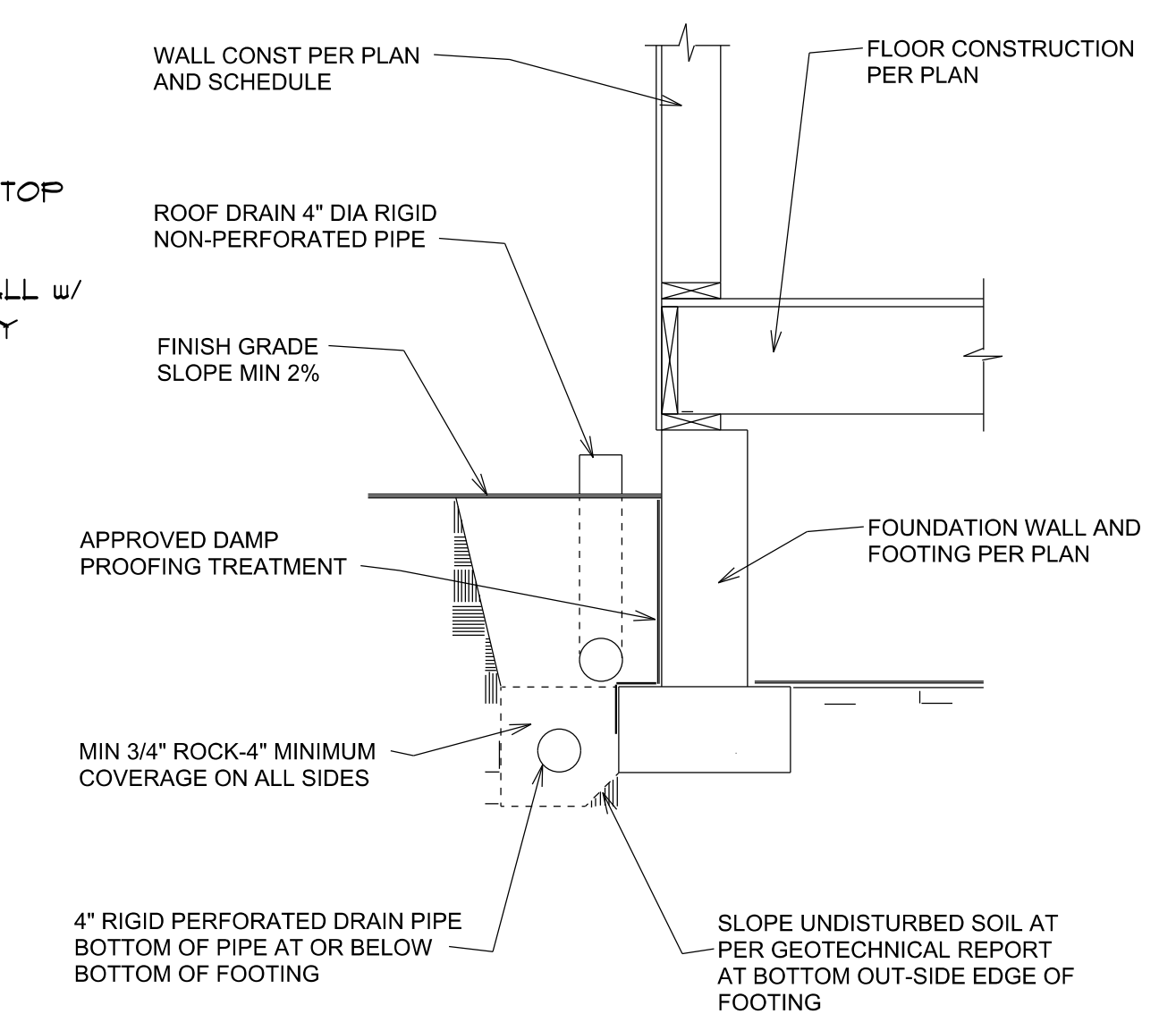
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DETAIL 8
SCALE 3/4" = 1'-0"

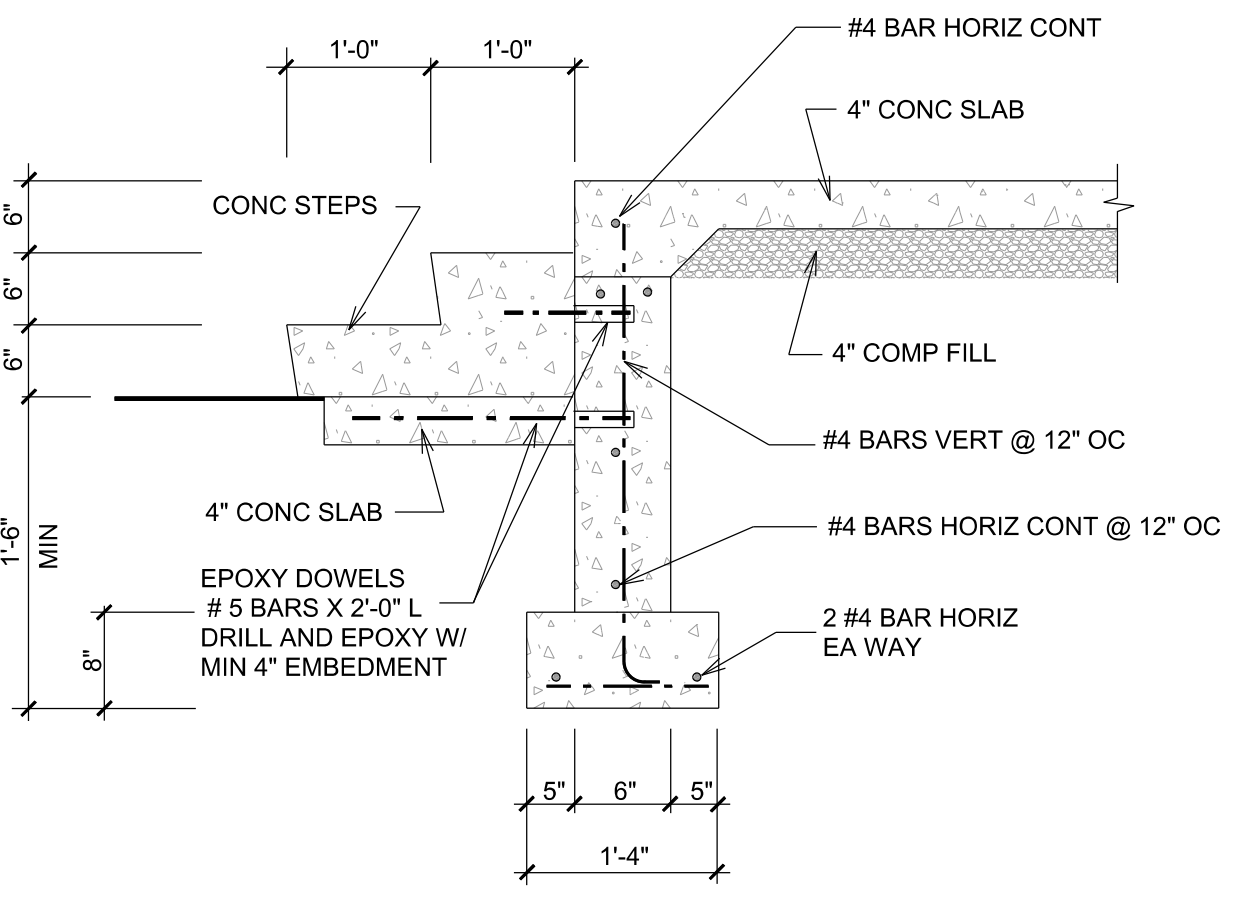


DETAIL 9
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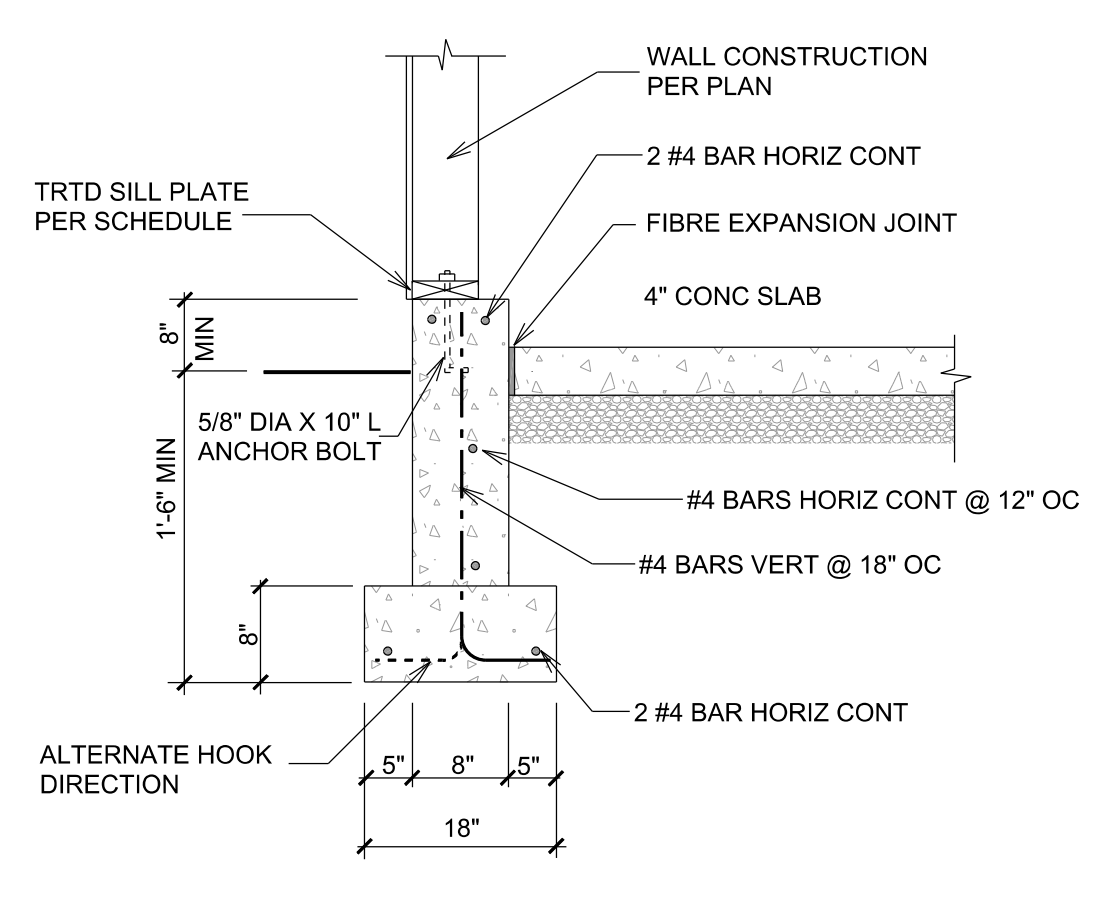


TYPICAL DRAINAGE DETAIL
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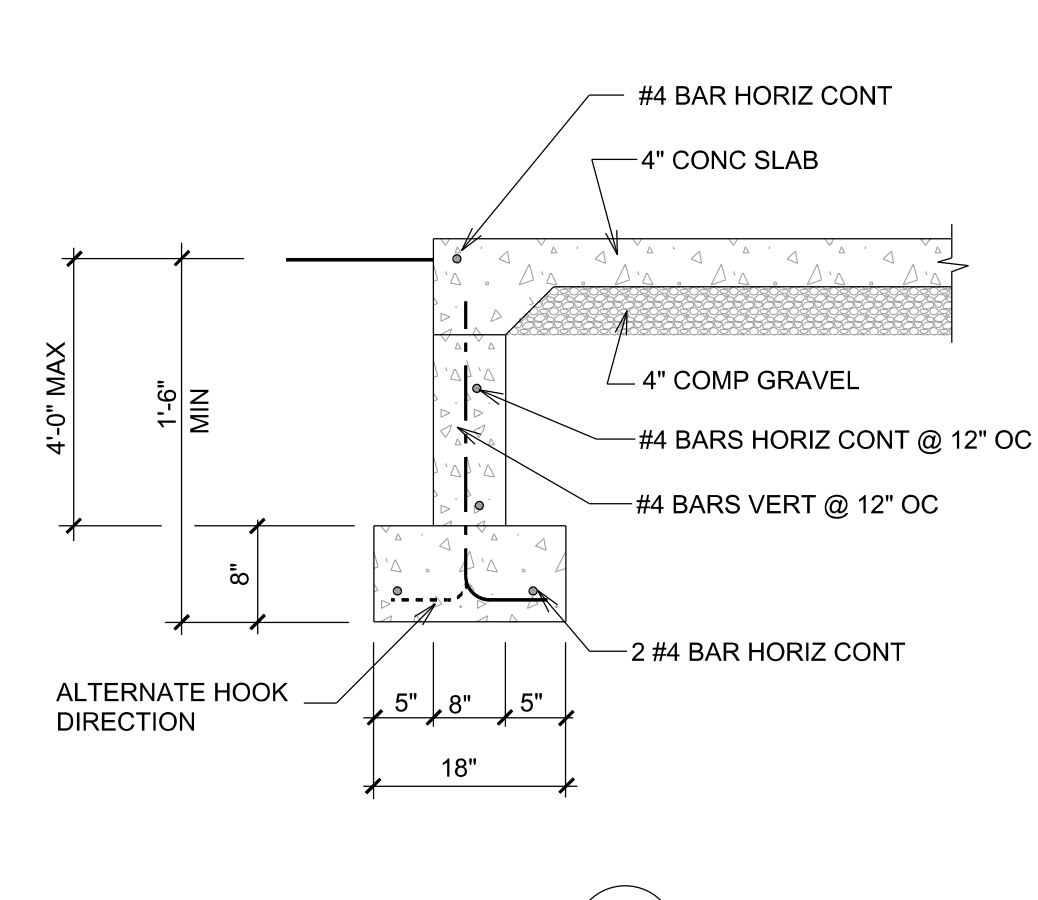
RETAINING WALL SCHEDULE							
H	A	B	L	T	B-BAR	T-BAR	F-BAR
2'-0"	2'-0"	6"	2'-0"	12"	#4 @ 12" o.c.	#4 @ 16" o.c.	(3)-#4 T, 4 B.
4'-0"	3'-0"	6"	2'-0"	12"	#4 @ 12" o.c.	#4 @ 12" o.c.	(4)-#4 T, 4 B.
6'-0"	4'-6"	9"	3'-0"	12"	#5 @ 12" o.c.	#5 @ 16" o.c.	(5)-#4 T, 4 B.
8'-0"	6'-0"	12"	4'-0"	15"	#7 @ 12" o.c.	#5 @ 12" o.c.	(6)-#4 T, 4 B.



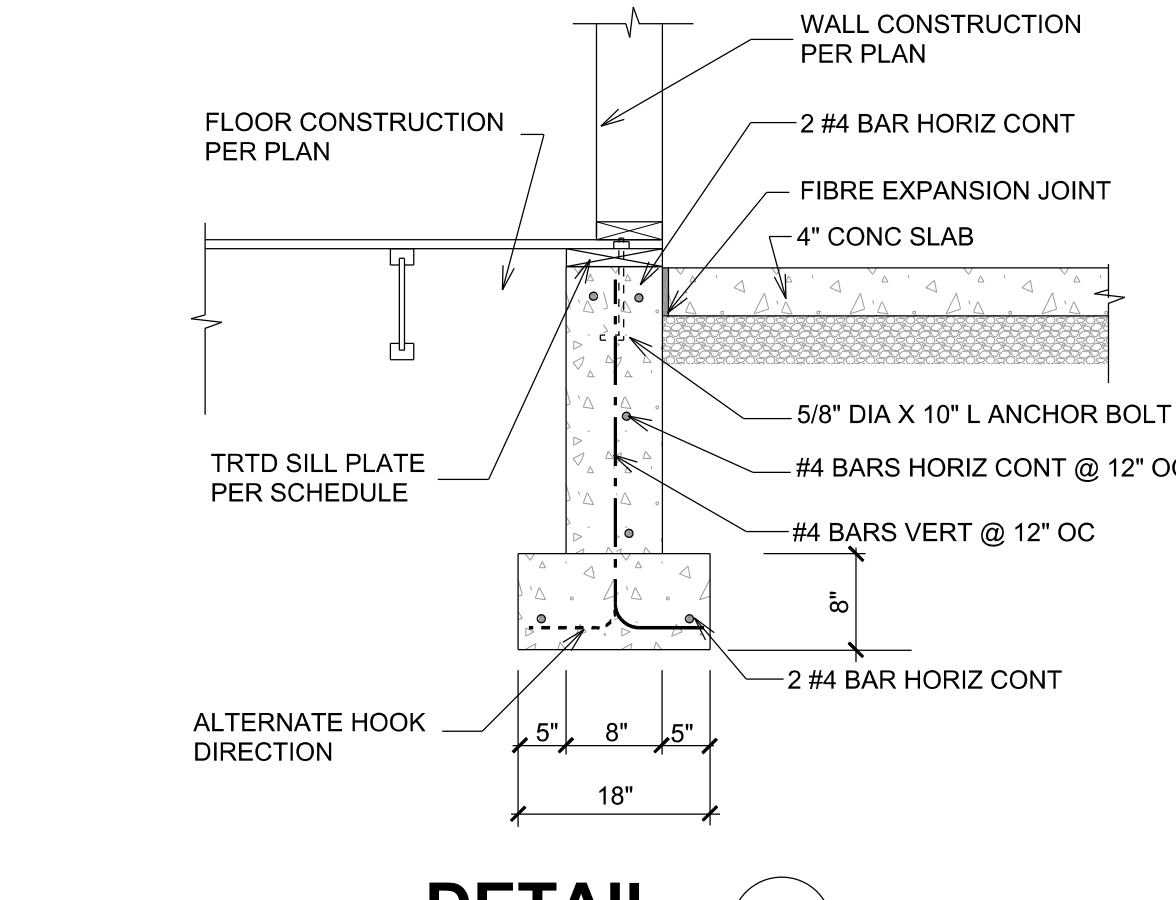
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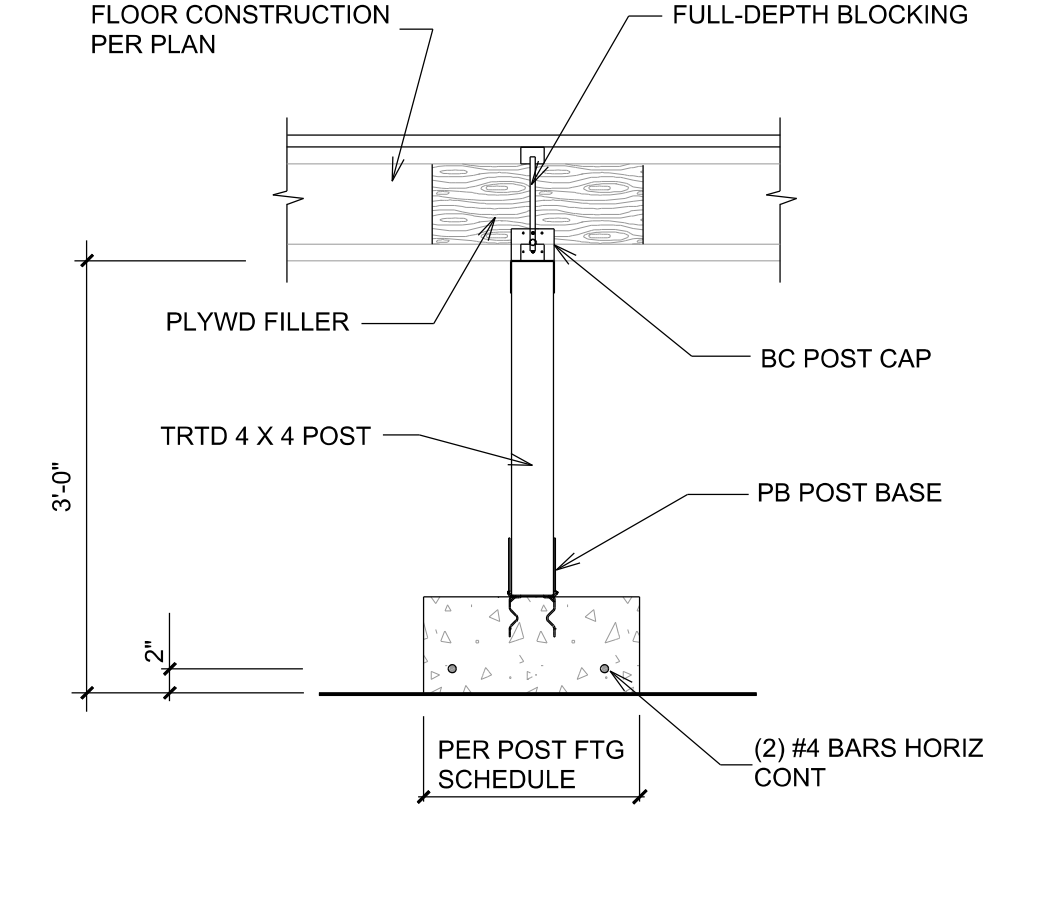
DETAIL 11
SCALE 3/4" = 1'-0"



DETAIL 12
SCALE 3/4" = 1'-0"



DETAIL 13
SCALE 3/4" = 1'-0"



DETAIL 14
SCALE 3/4" = 1'-0"

REVISION EDITION

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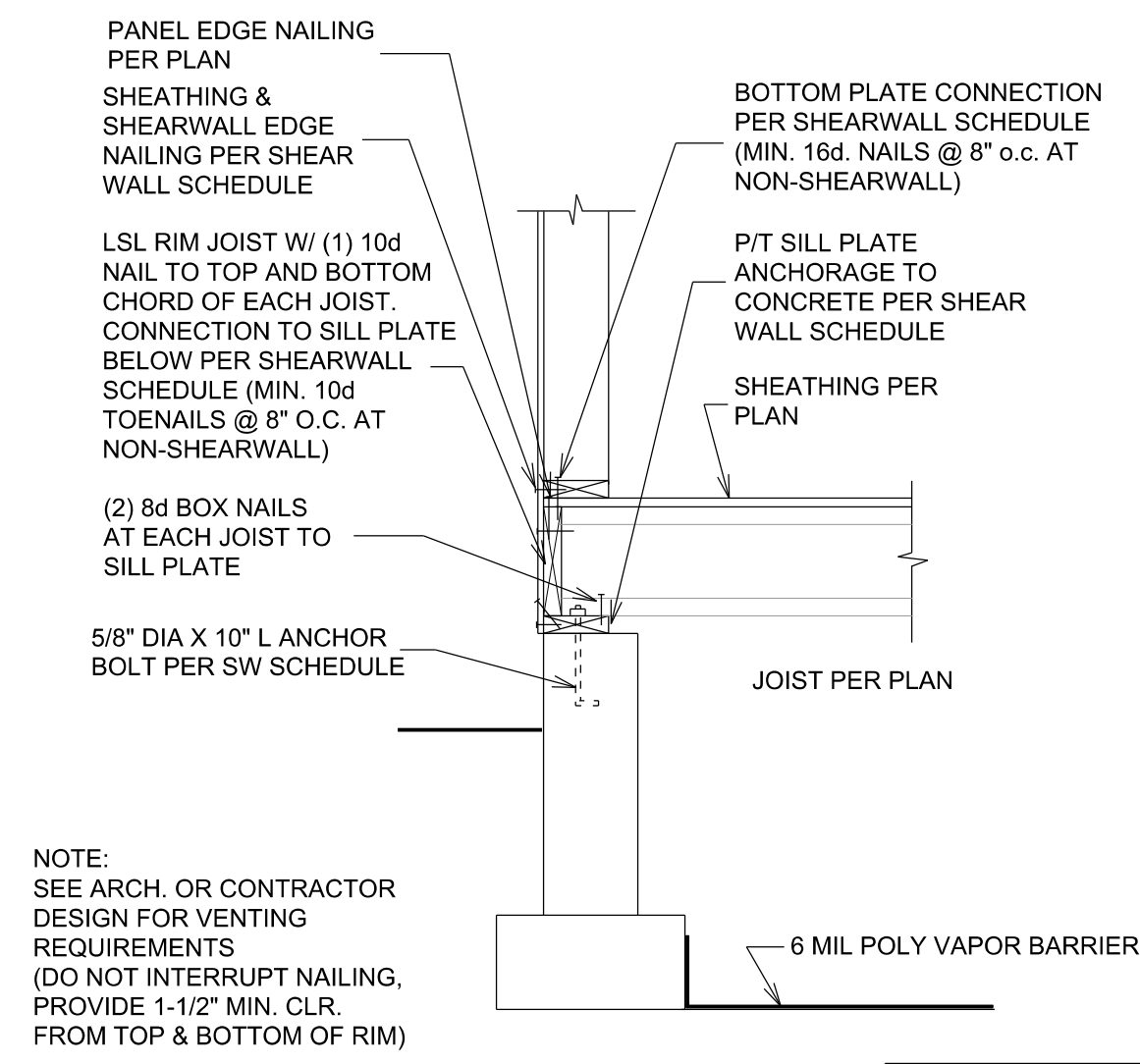
K/A. C.C. CONSULTING STRUCTURAL ENGINEERS

PROPOSED NEW RESIDENCE
EDWARD & CATHERINE MORAN
5028 WEST MERCER WAY
MERCER ISLAND, WA 98040

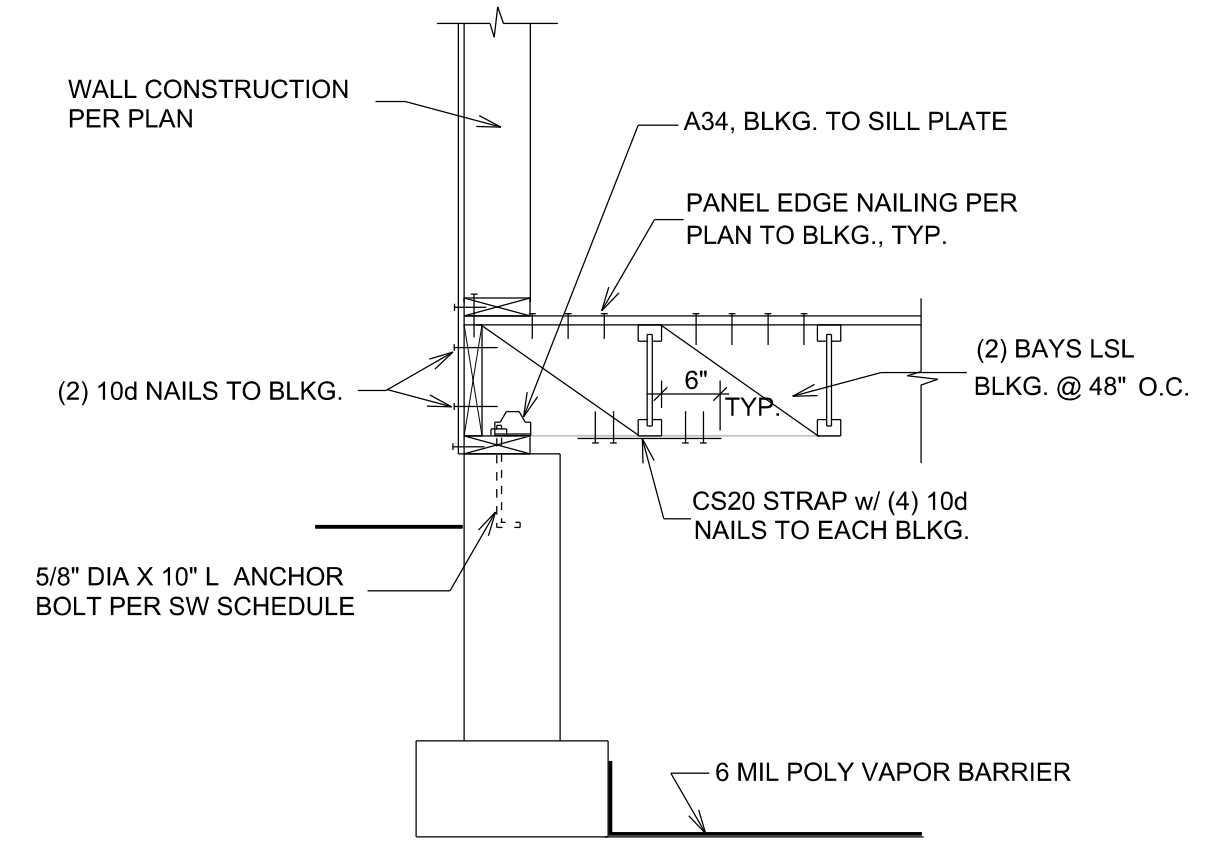
FOUNDATION DETAILS

SHEET
S-3
OF
-
JOB #

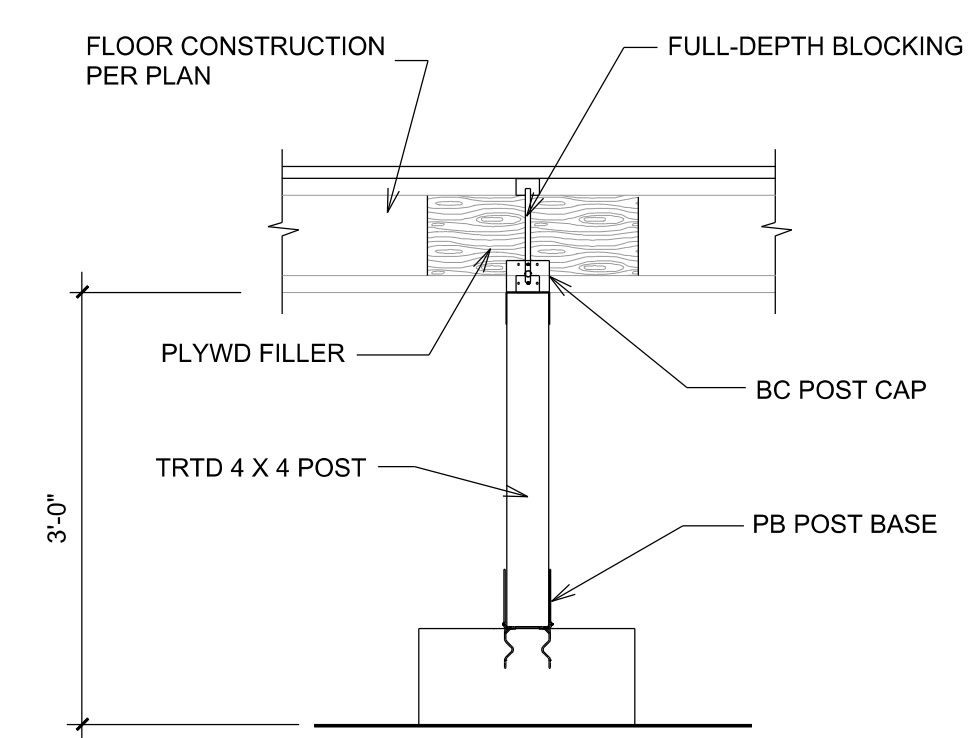




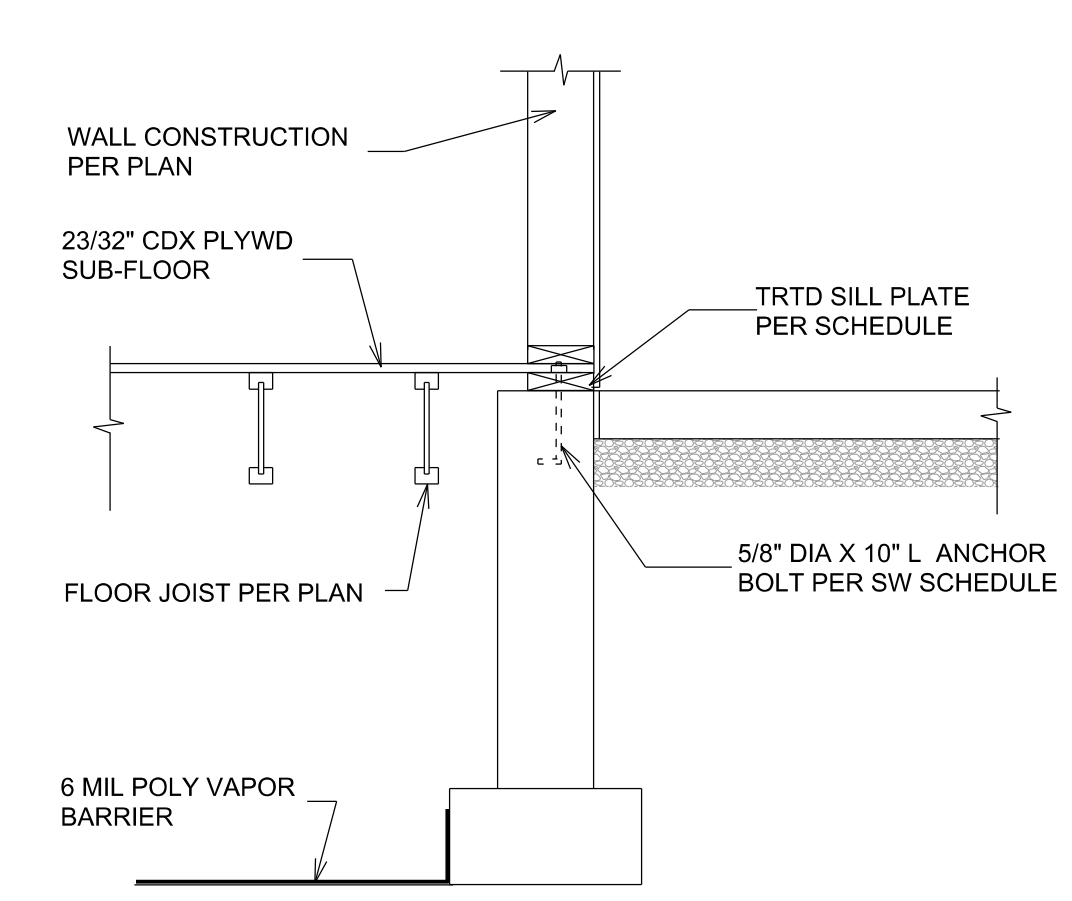
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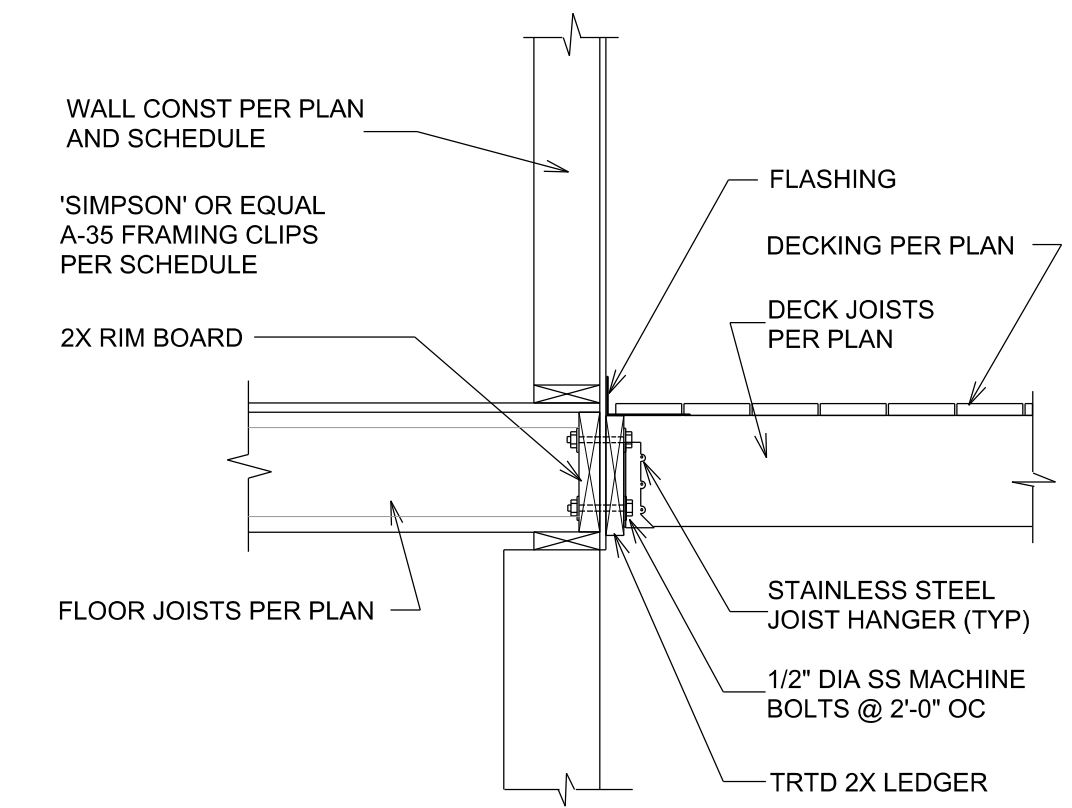
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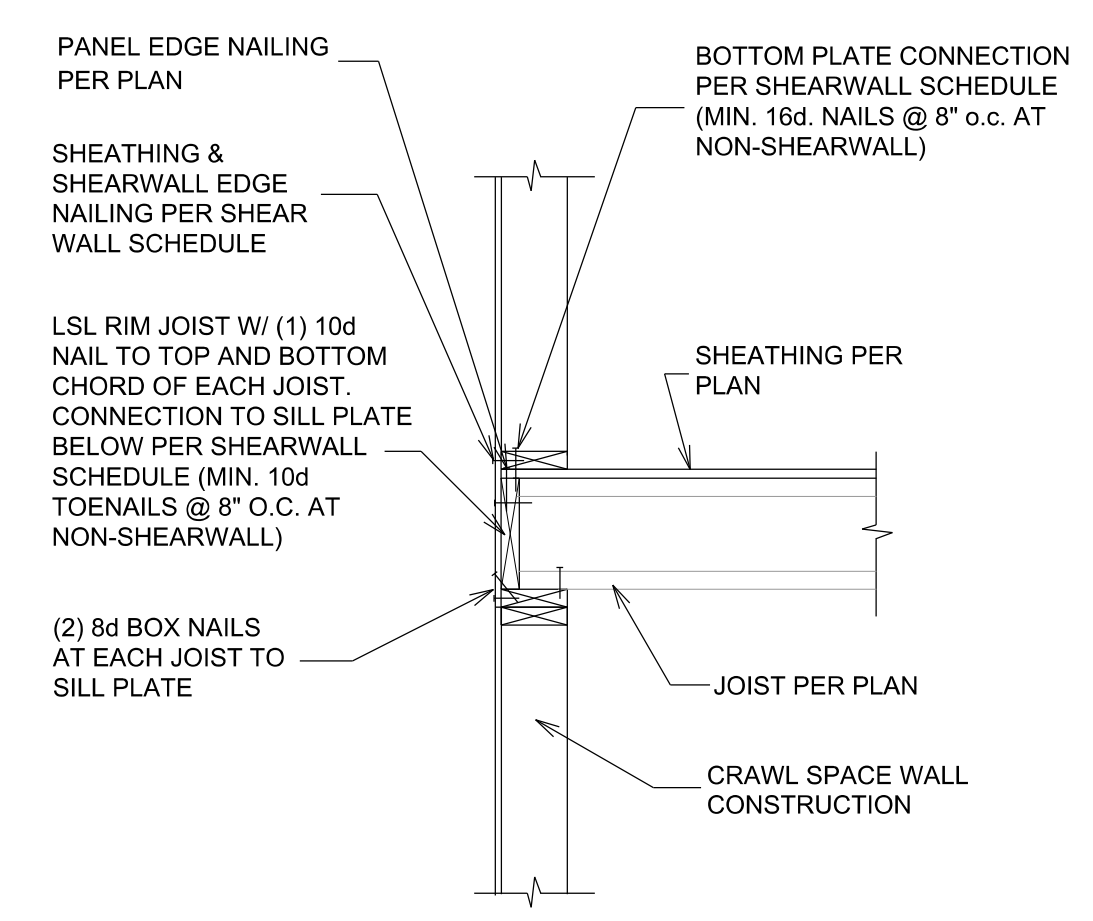
DETAIL 3
SCALE 3/4" = 1'-0"



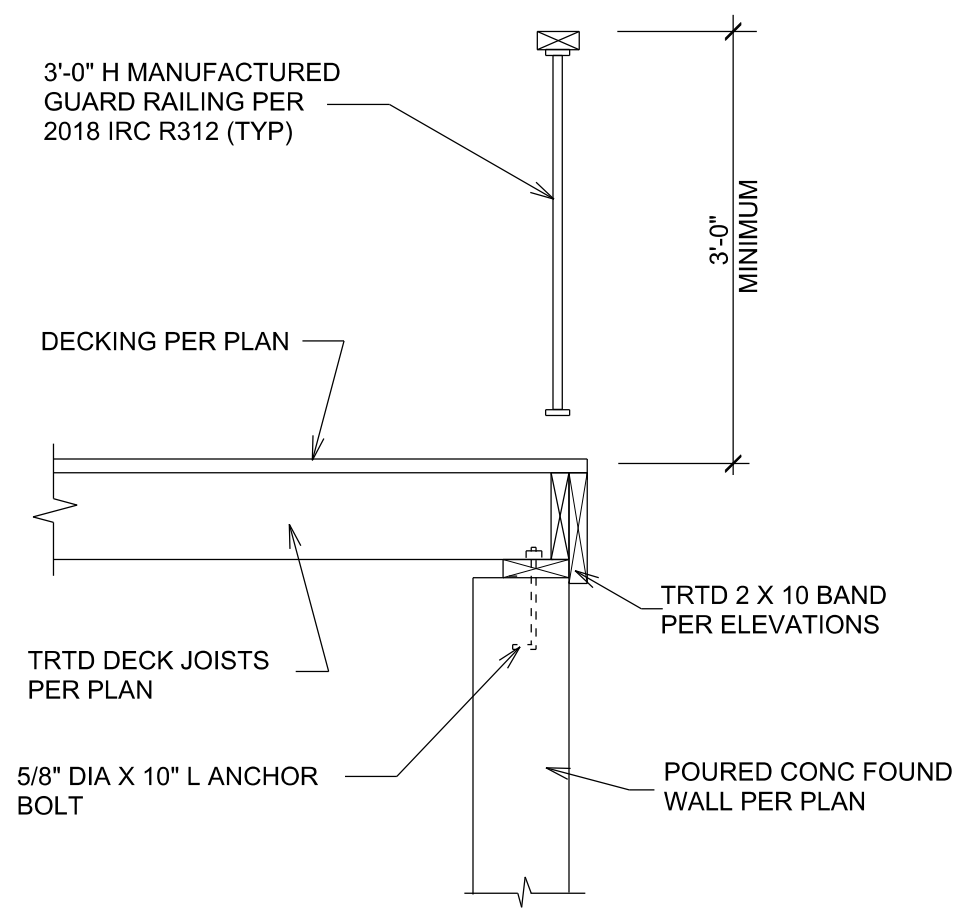
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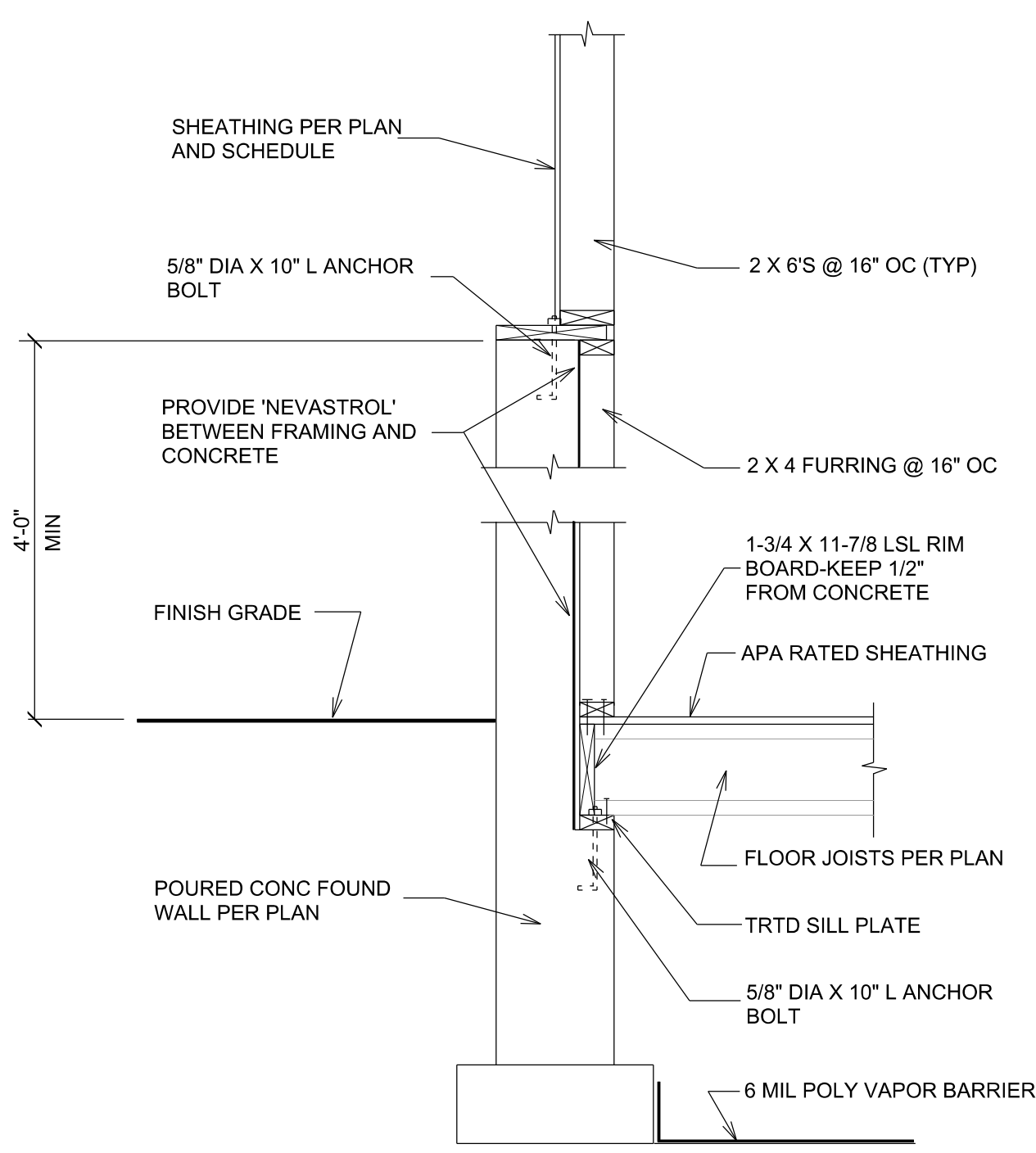
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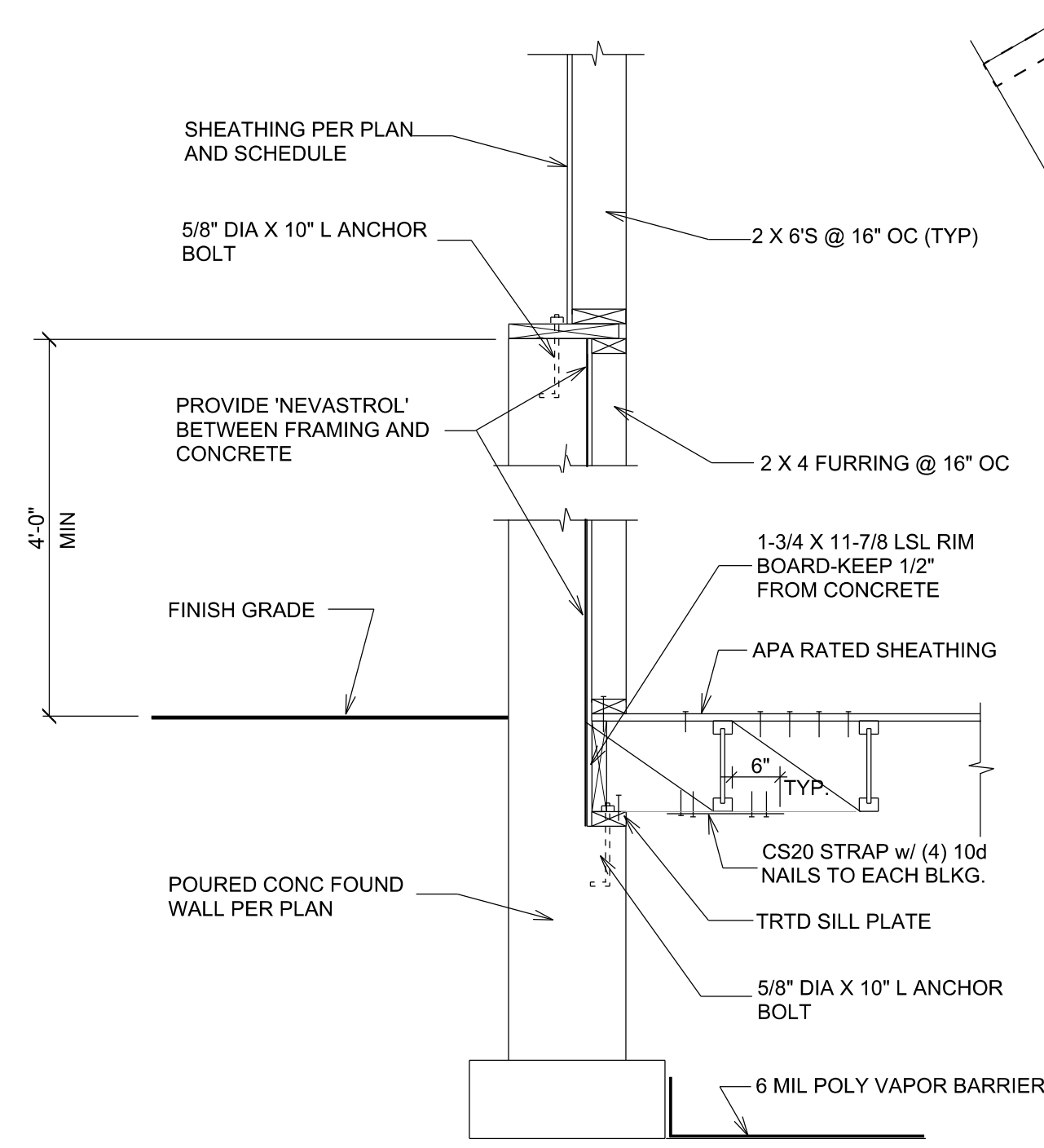
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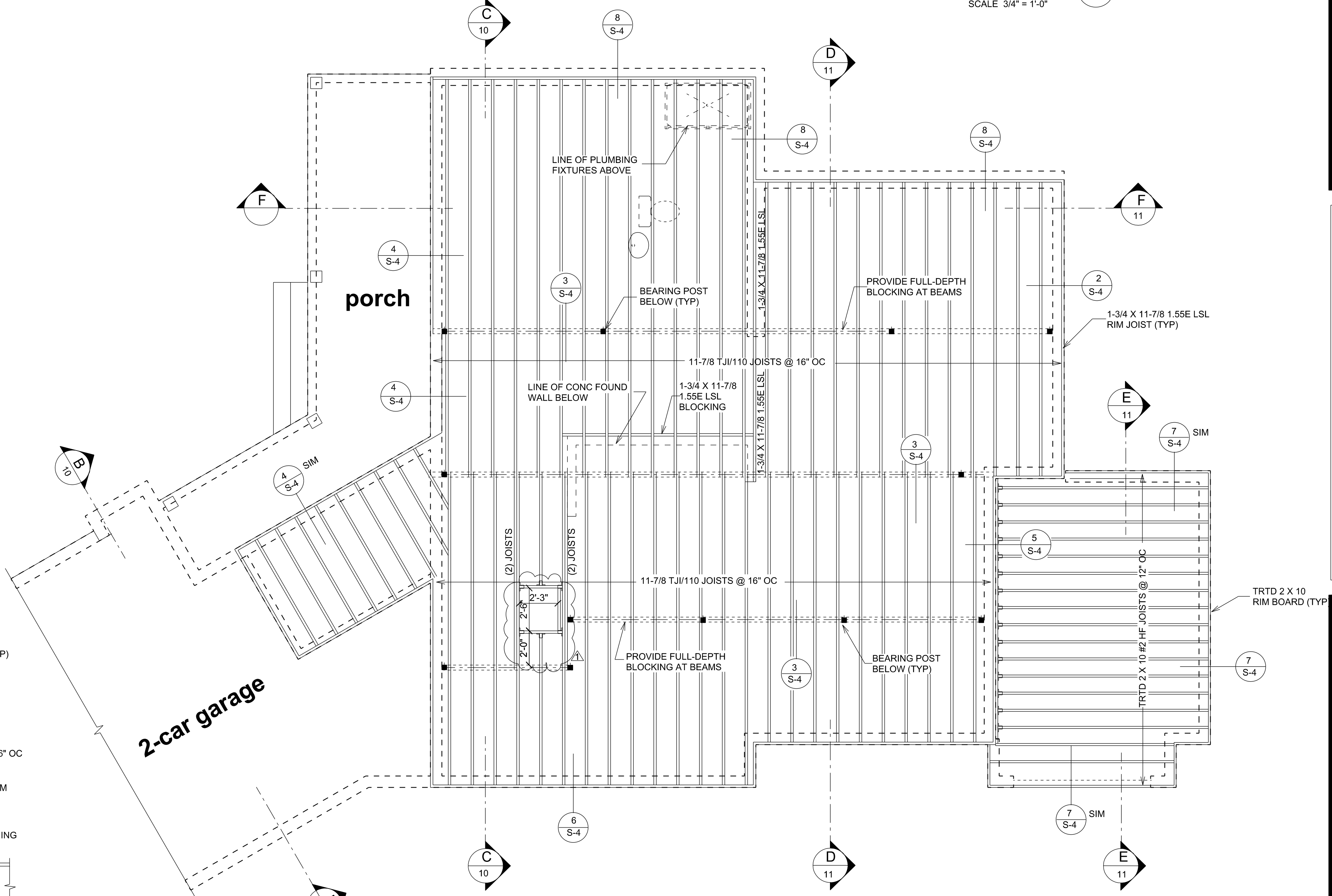
DETAIL 7
SCALE 3/4" = 1'-0"



DETAIL 8
SCALE 3/4" = 1'-0"



DETAIL 9
SCALE 3/4" = 1'-0"



BEARING POST NOTES
STAND ALONE BEARING POSTS BEARING ON CONCRETE TO USE ABU OR EQUAL POST BASE AND BC POST CAP TO BEAM ABOVE, U.N.O.
BEARING POSTS BEARING ON WOOD OR EMBEDDED IN WALL FRAMING TO USE RPBZ OR EQUAL POST BASE AND BC POST CAP TO BEAM ABOVE.

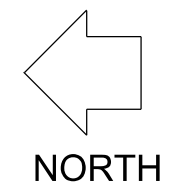
PROVIDE TEMP MID-SPAN BRACING FOR LSL AND PSL BEAMS AT SPANS OVER 12'-0\"/>

ALL BEARING POSTS TO CONTINUE DOWN TO FOUNDATION EITHER DIRECTLY OR INDIRECTLY THROUGH BEAMS OR HEADERS BELOW

BEARING POST NOTES
STAND ALONE BEARING POSTS BEARING ON CONCRETE TO USE ABU OR EQUAL POST BASE AND BC POST CAP TO BEAM ABOVE, U.N.O.
BEARING POSTS BEARING ON WOOD OR EMBEDDED IN WALL FRAMING TO USE RPBZ OR EQUAL POST BASE AND BC POST CAP TO BEAM ABOVE.

SEE SHEET NOS. S-7 & S-8 FOR SHEAR WALL PLANS, SCHEDULE AND NOTES

MAIN LEVEL FLOOR FRAMING PLAN
SCALE 1/4" = 1'-0"

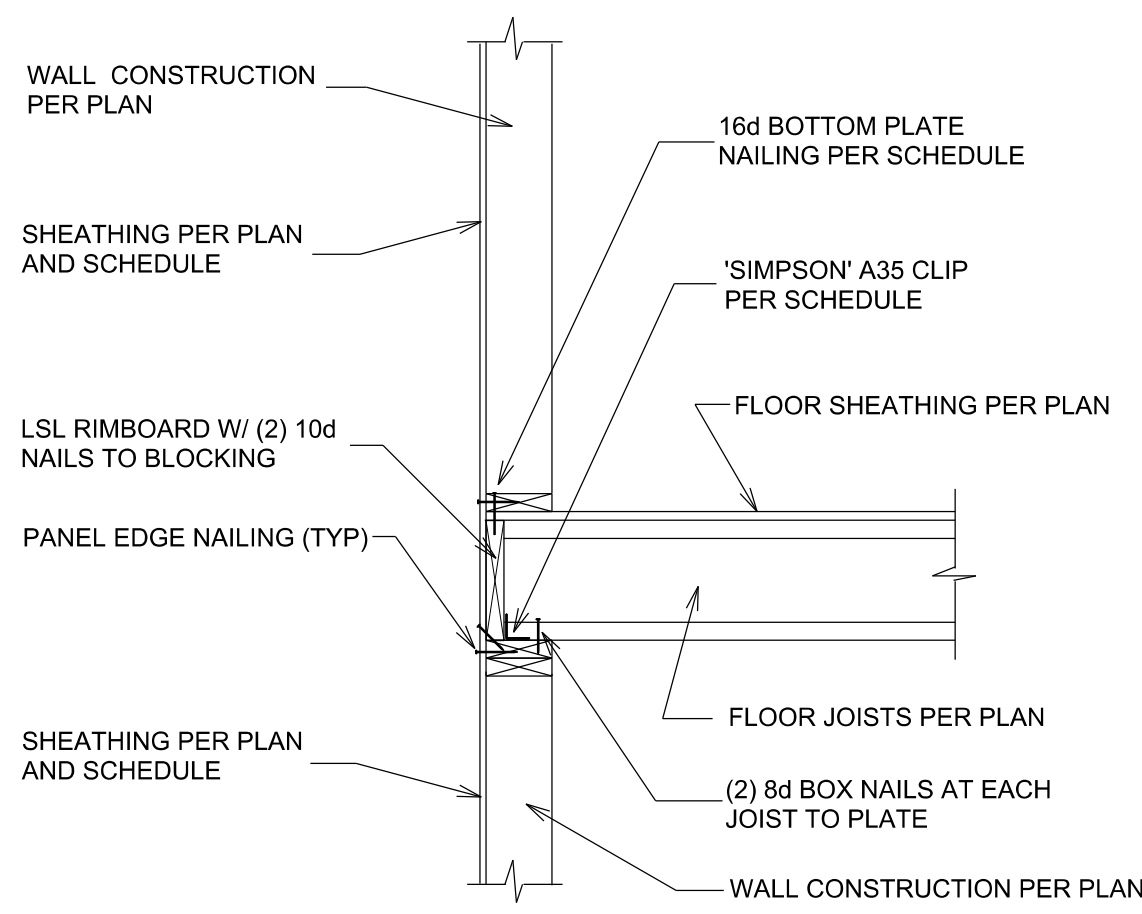


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DRAWN BY:	A.G.			
CHECKED BY:	A.G.			
DATE:	11-30-2021			
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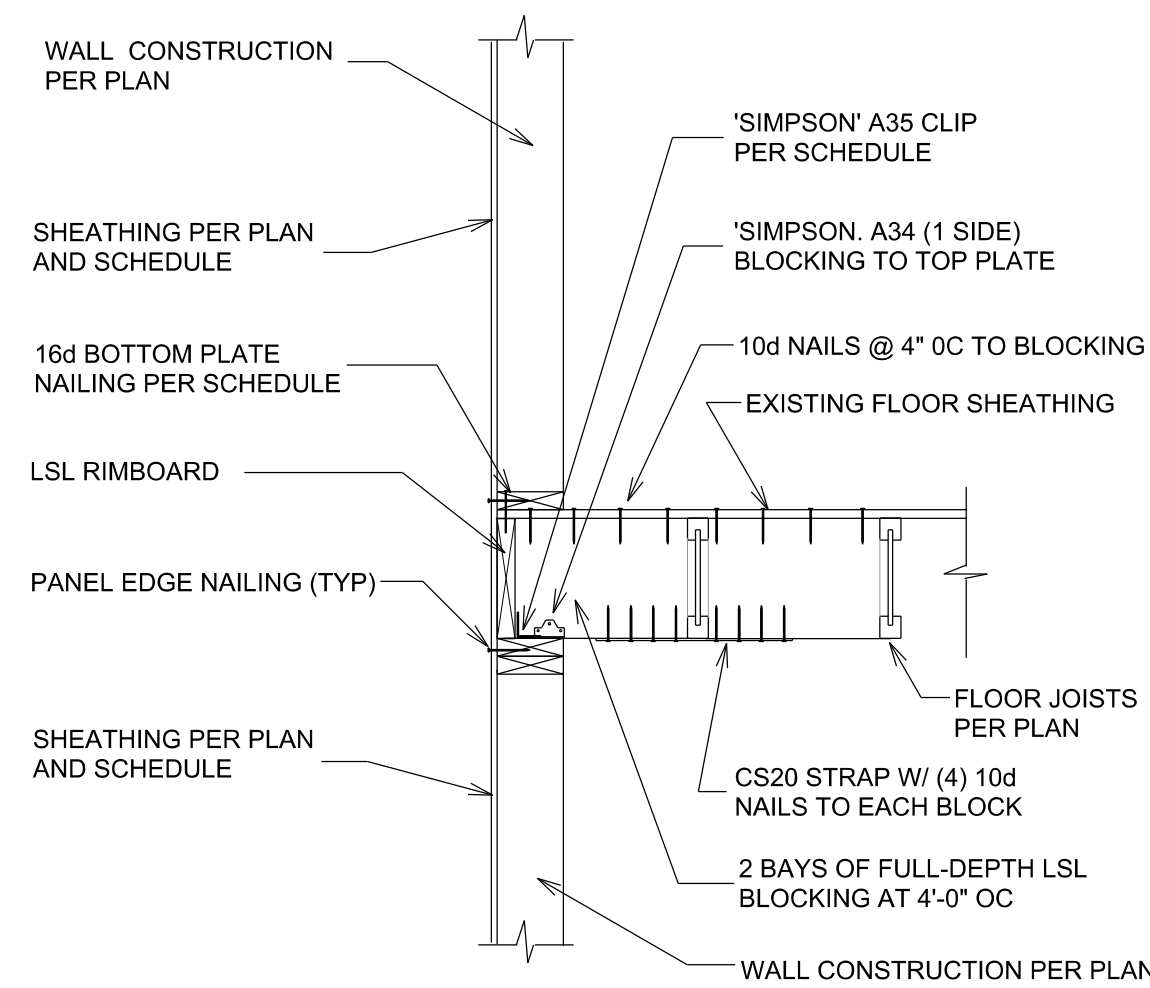
PROPOSED NEW RESIDENCE
EDWARD & CATHERINE MORAN
5028 WEST MERCER WAY
MERCER ISLAND, WA 98040

MAIN LEVEL FLOOR FRAMING

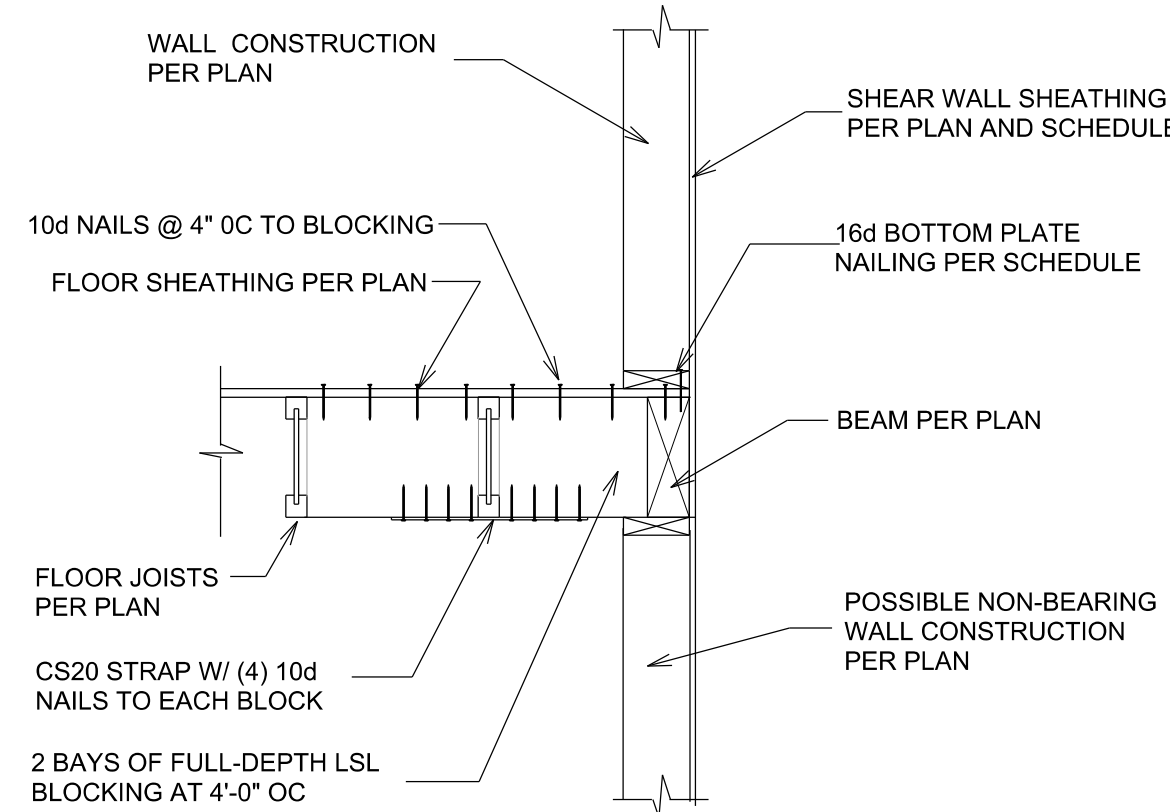
SHEET	S-4
OF	4
JOB #	



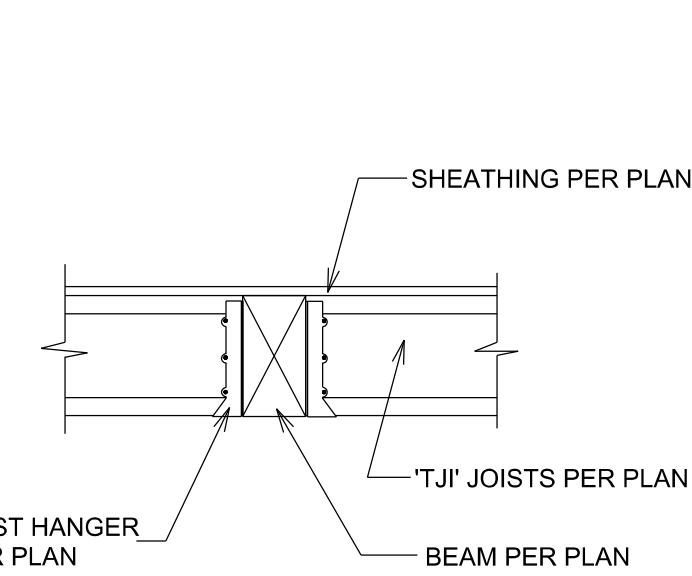
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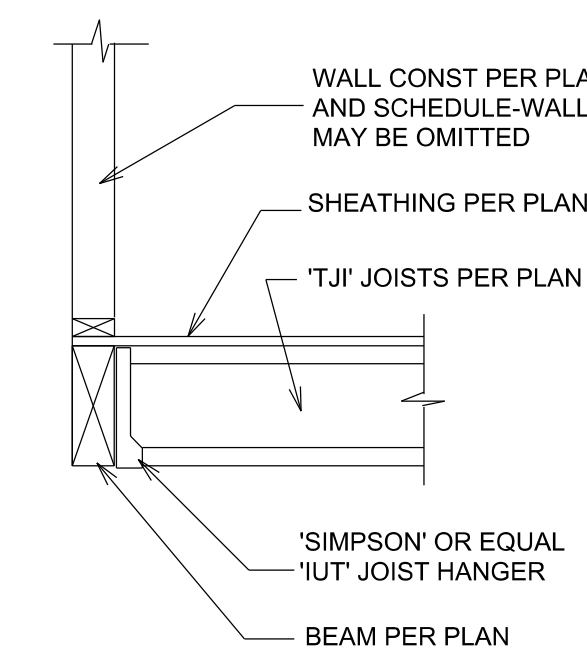
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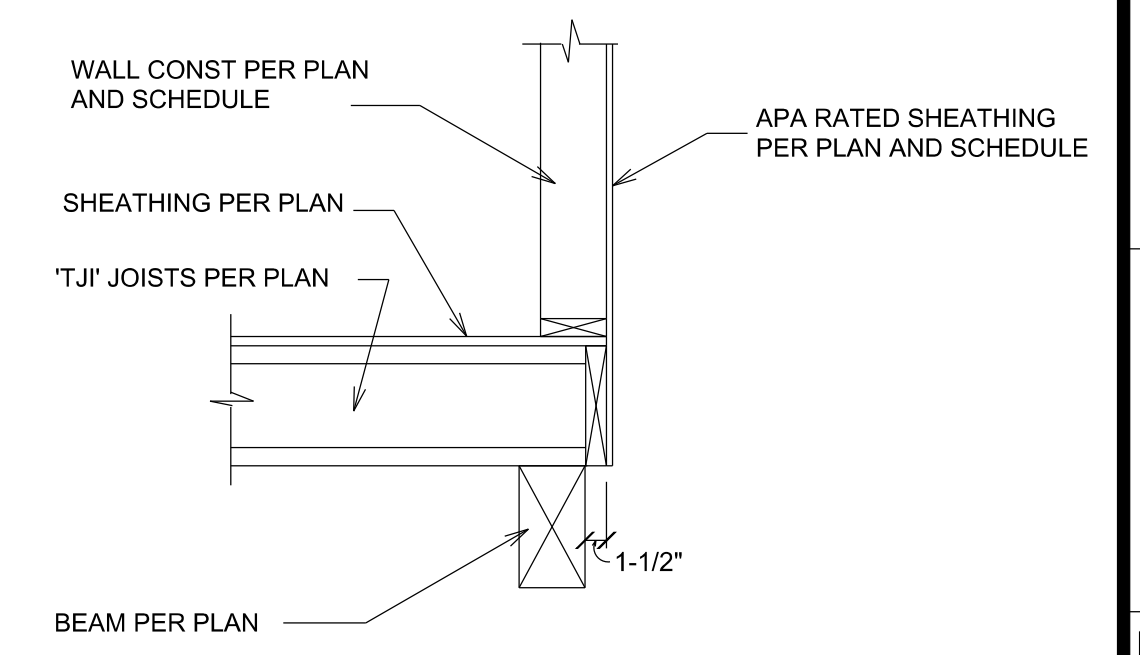
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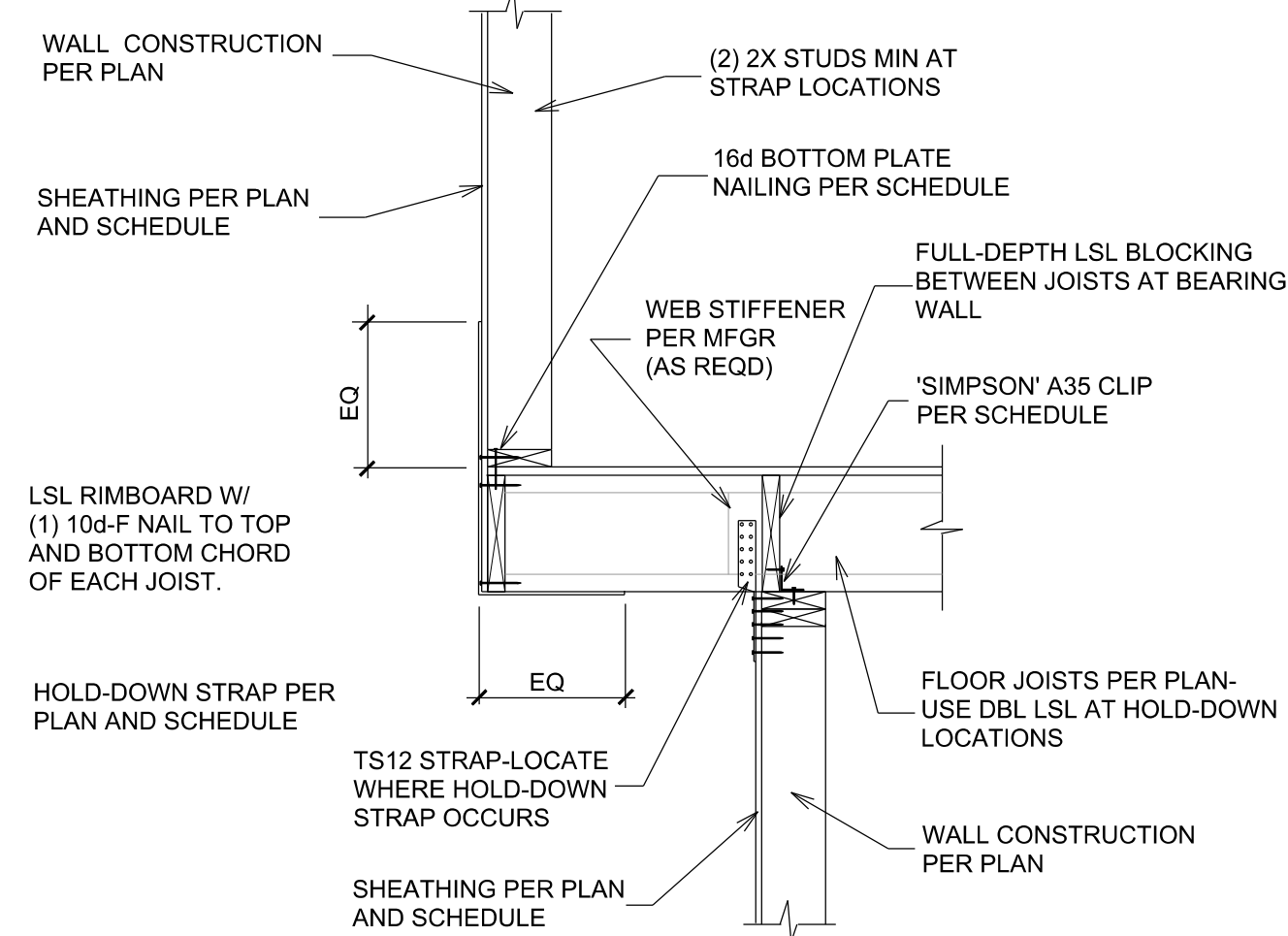
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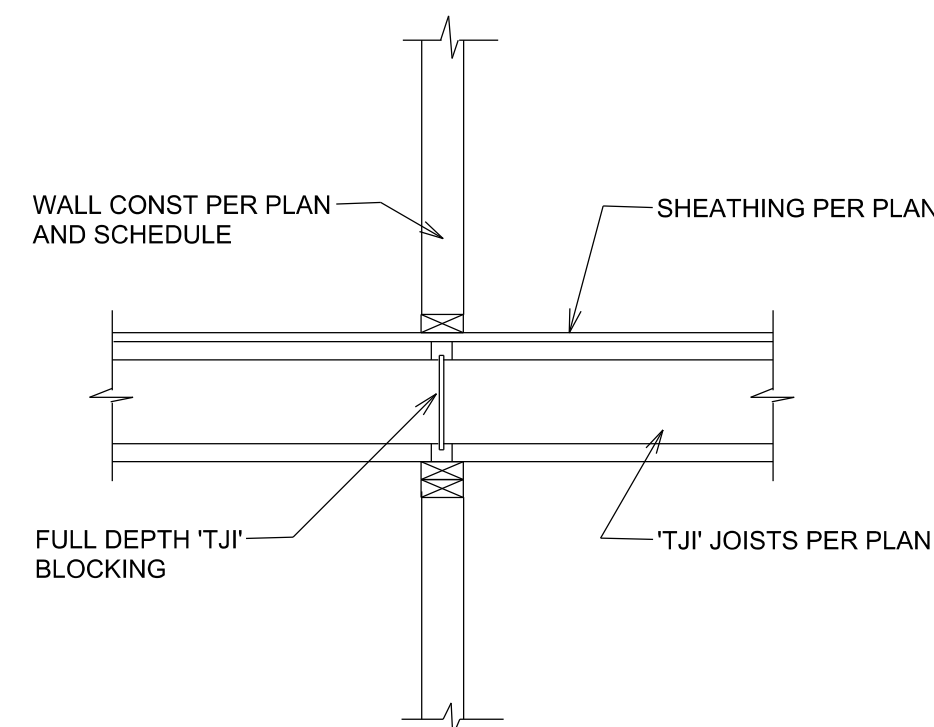
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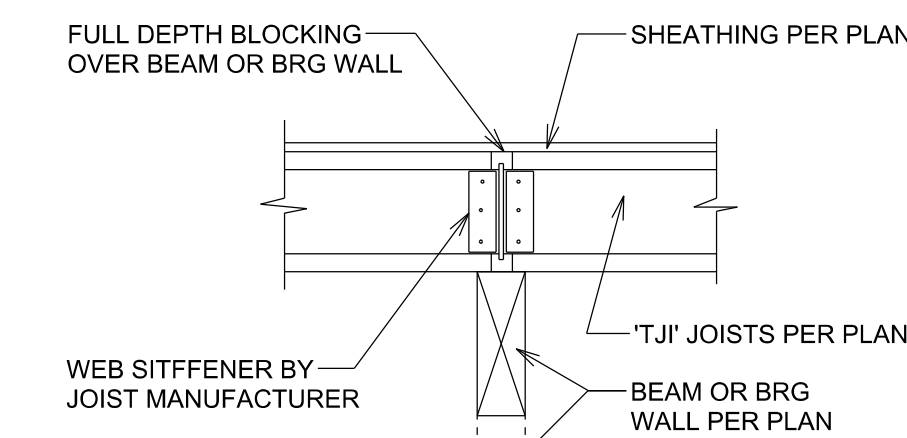
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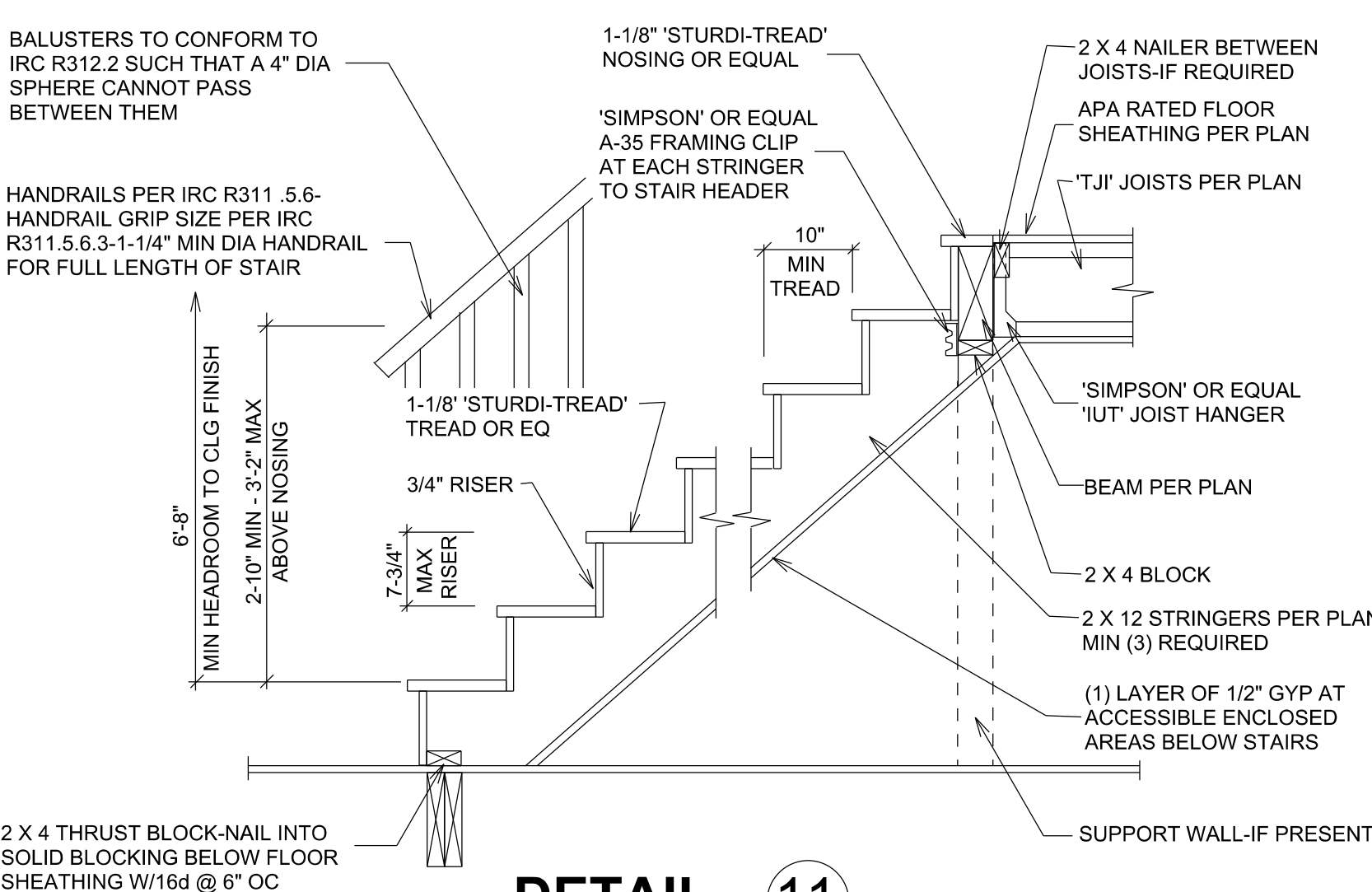
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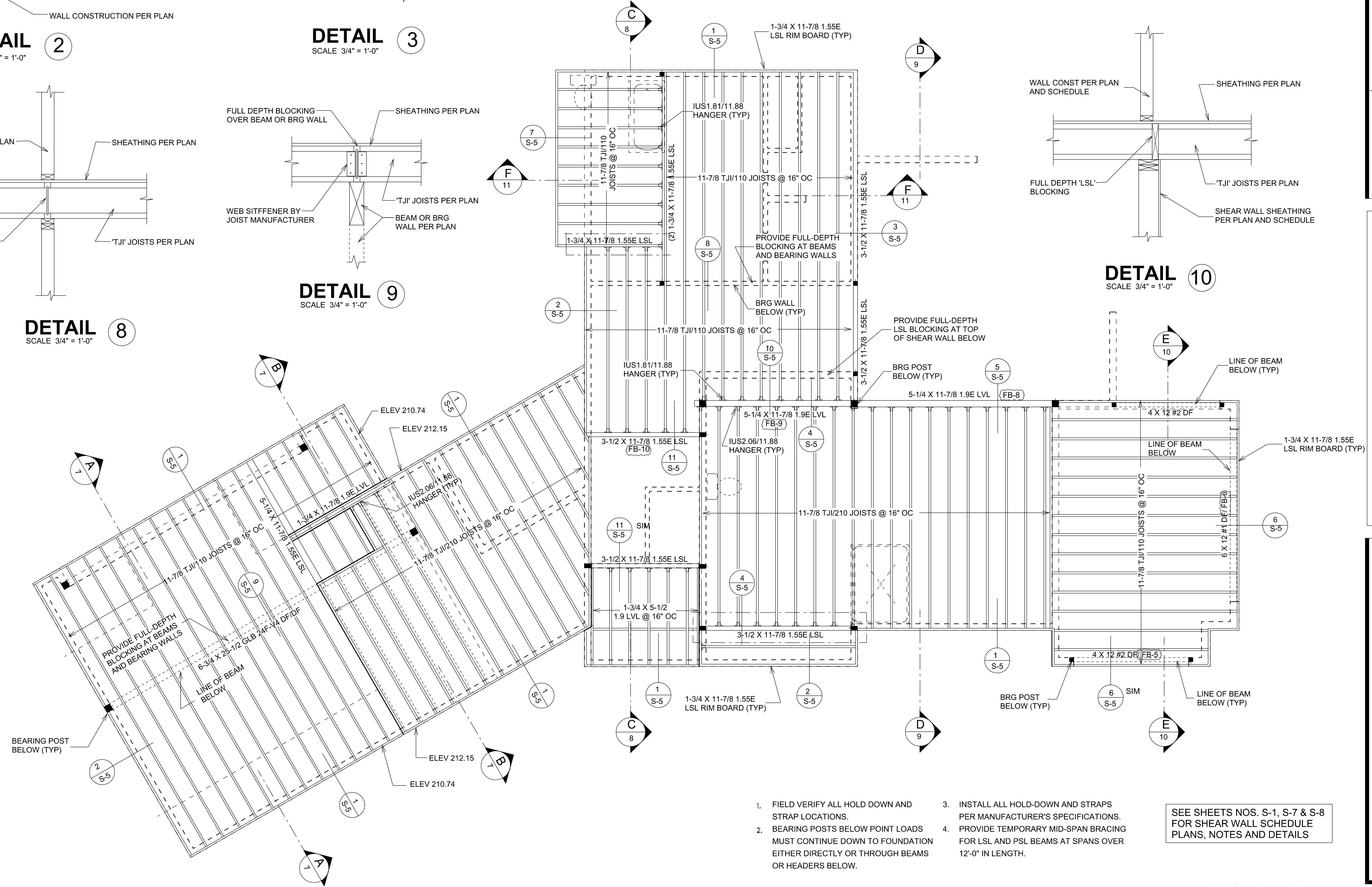
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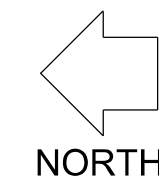
DETAIL 9
SCALE 3/4" = 1'-0"



DETAIL 11
SCALE 3/4" = 1'-0"



UPPER LEVEL FLOOR FRAMING PLAN
SCALE 1/4" = 1'-0"



- FIELD VERIFY ALL HOLD DOWN AND STRAP LOCATIONS.
- BEARING POSTS BELOW POINT LOADS MUST CONTINUE DOWN TO FOUNDATION EITHER DIRECTLY OR THROUGH BEAMS OR HEADERS BELOW.
- INSTALL ALL HOLD-DOWN AND STRAPS PER MANUFACTURER'S SPECIFICATIONS.
- PROVIDE TEMPORARY MID-SPAN BRACING FOR LSL AND PSL BEAMS AT SPANS OVER 12'-0" IN LENGTH.

SEE SHEETS NOS. S-1, S-7 & S-8 FOR SHEAR WALL SCHEDULE PLANS, NOTES AND DETAILS

BEARING POST NOTES

STAND ALONE BEARING POSTS BEARING ON CONCRETE TO USE ABU OR EQUAL POST BASE AND BC POST CAP TO BEAM ABOVE, U.N.O.

BEARING POSTS BEARING ON WOOD OR EMBEDDED IN WALL FRAMING TO USE RP2Z OR EQUAL POST BASE AND BC POST CAP TO BEAM ABOVE, U.N.O.

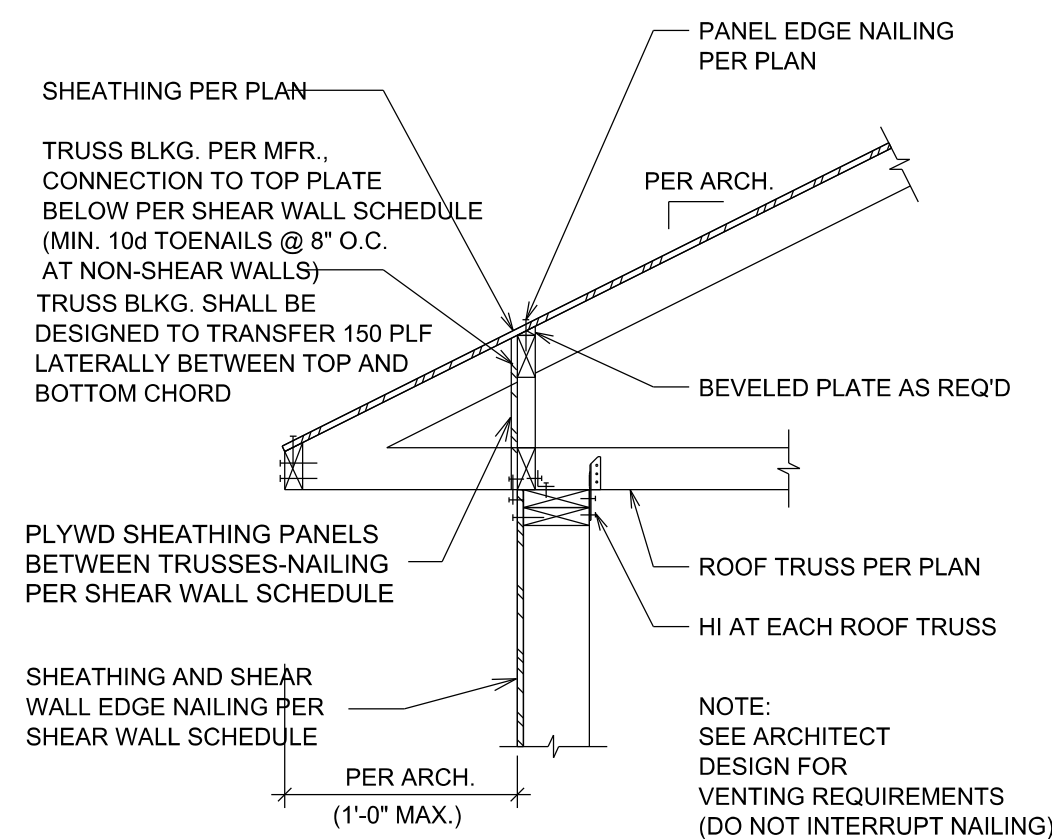


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CHECKED BY: A.G.				
DATE: 11-30-2021				

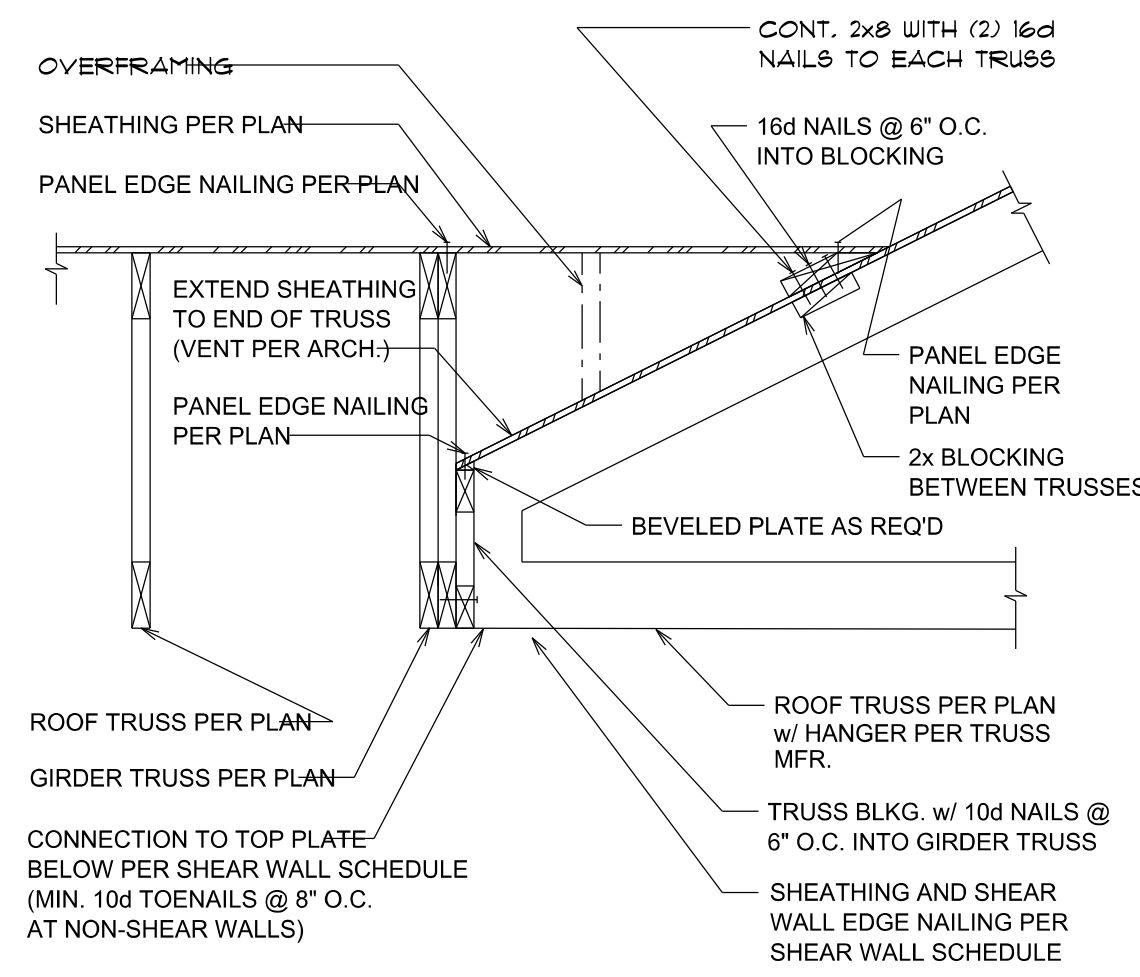
PROPOSED NEW RESIDENCE
EDWARD & CATHERINE MORAN
5000 WEST MERCER WAY
MERCER ISLAND, WA 98040

UPPER LEVEL FLOOR FRAMING

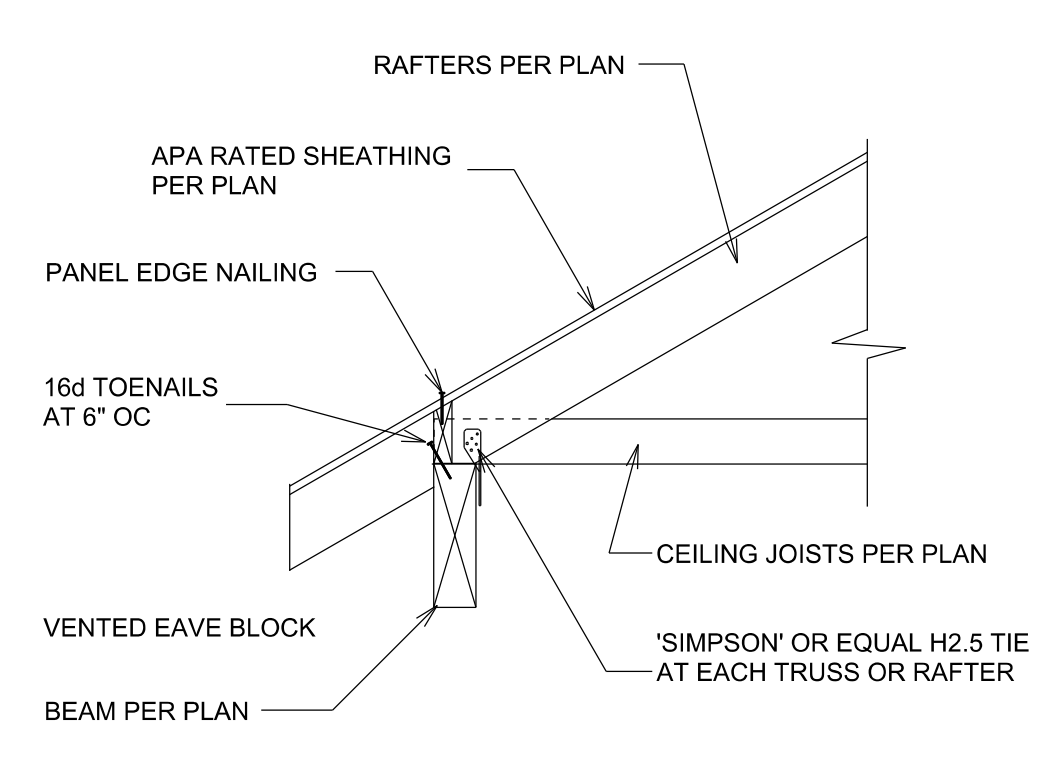
SHEET
S-5
JOB #



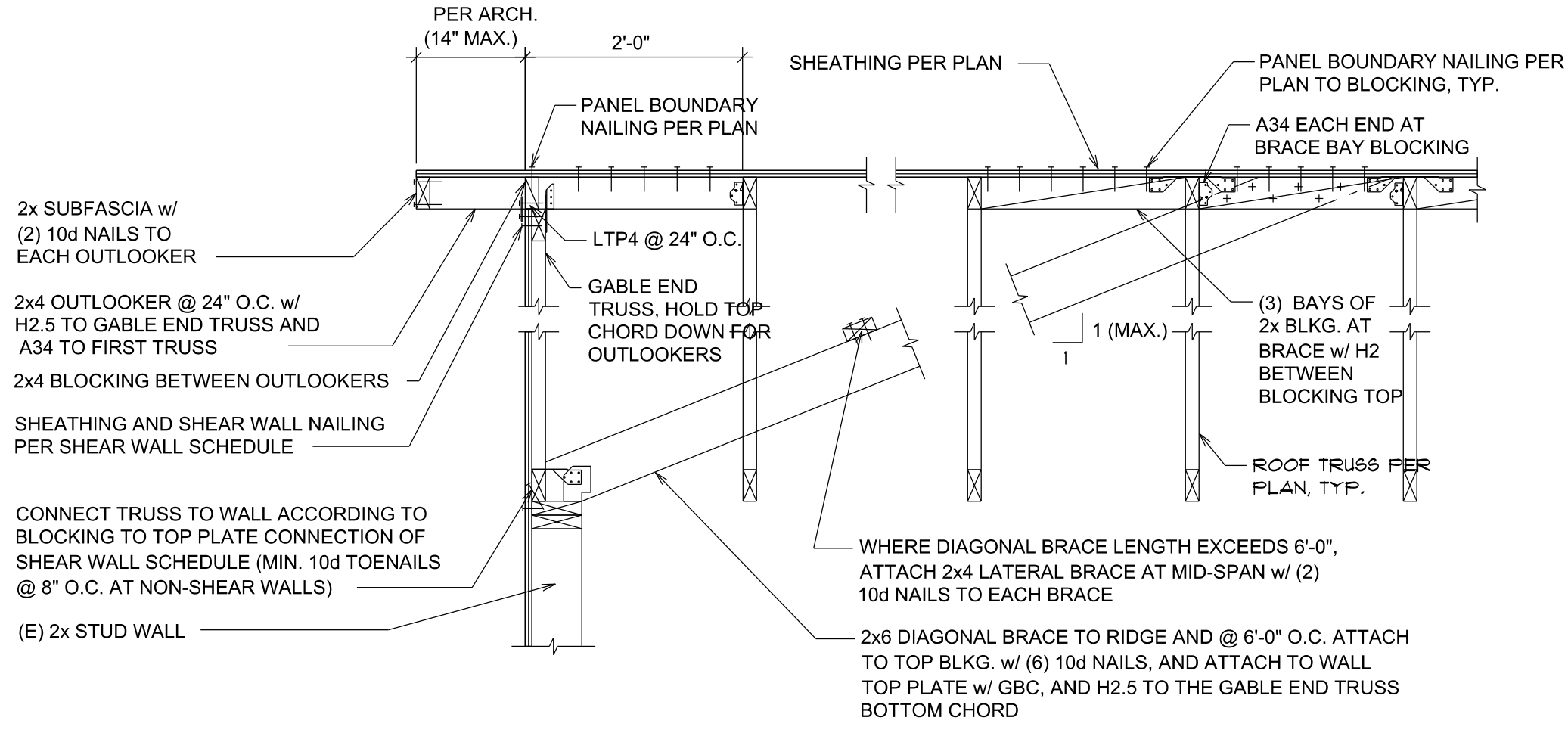
DETAIL 1
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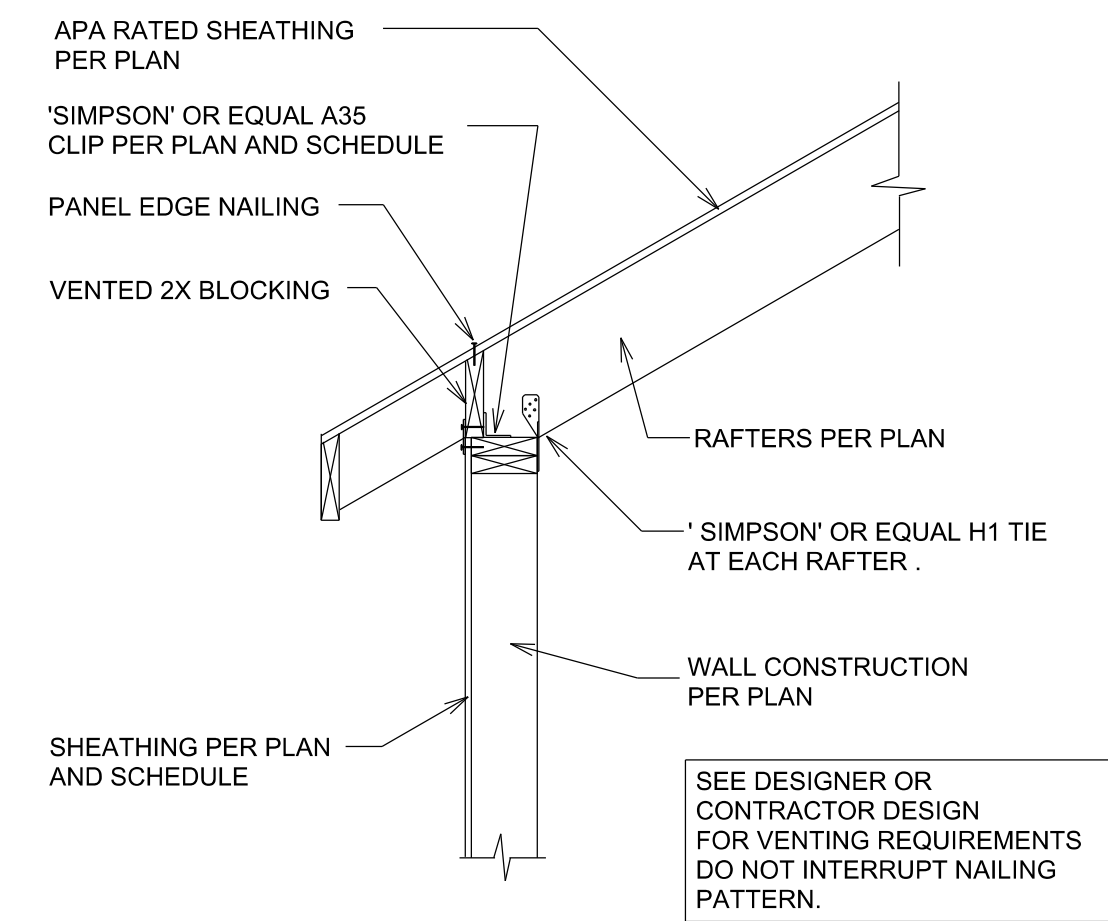
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SCALE 3/4" = 1'-0"



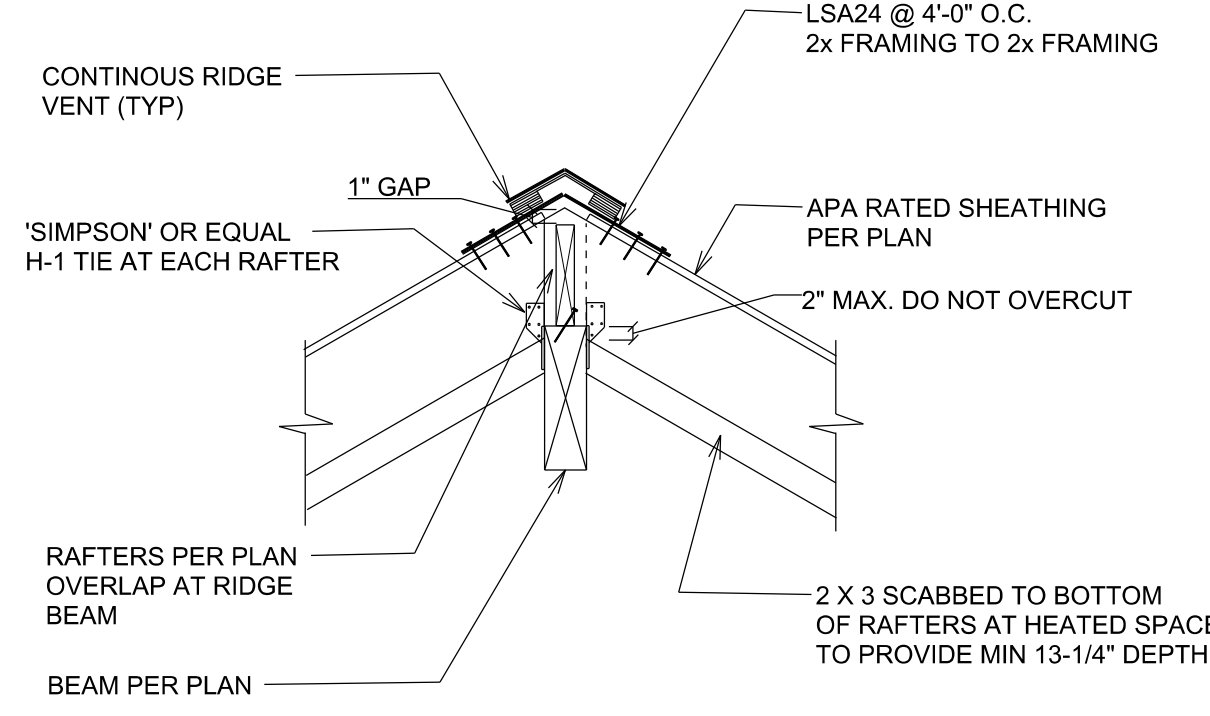
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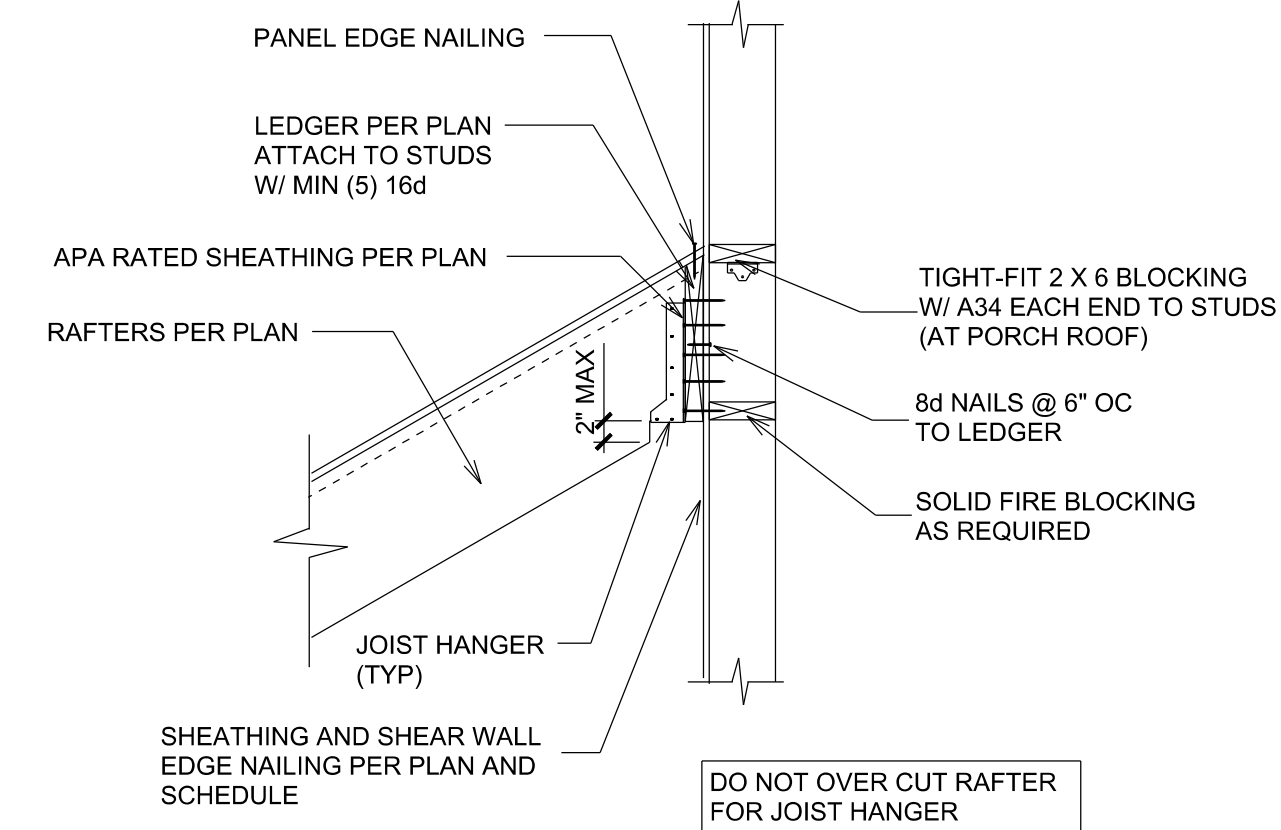
TYPICAL ROOF TRUSS TO EXTERIOR WALL - TRUSS PARALLEL
4



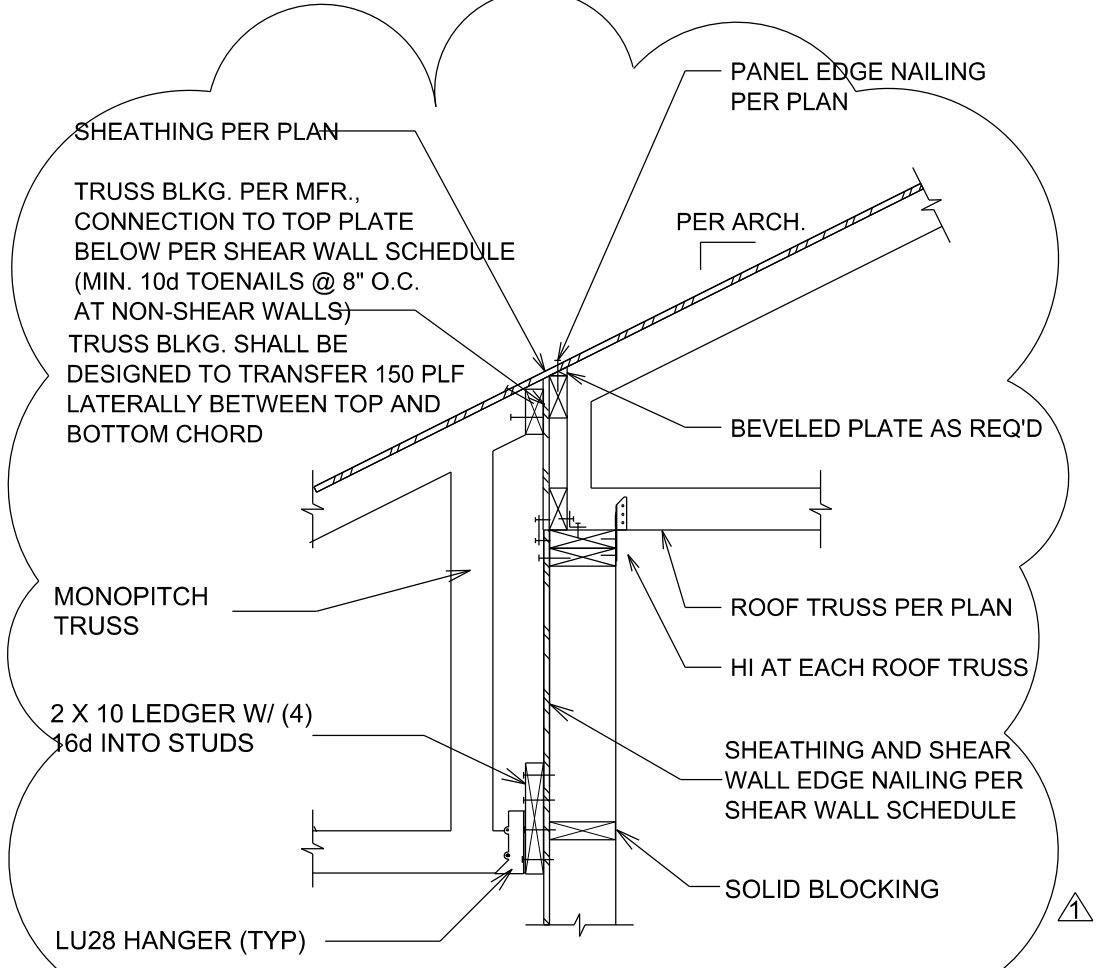
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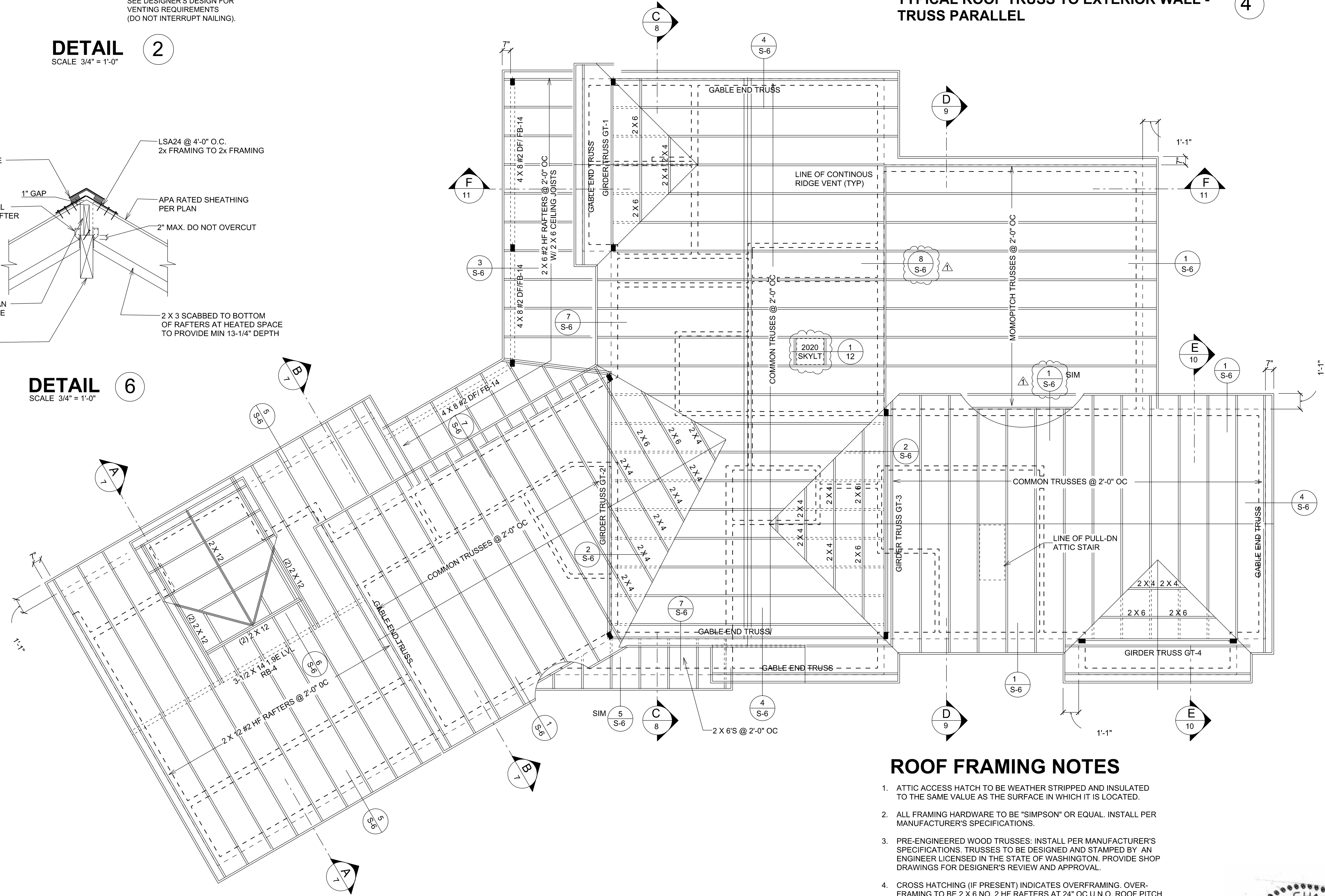
DETAIL 6
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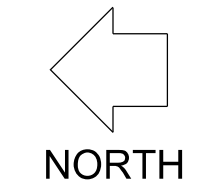
DETAIL 7
SCALE 3/4" = 1'-0"



DETAIL 8
SCALE 3/4" = 1'-0"



ROOF FRAMING PLAN
SCALE 1/4" = 1'-0"



ROOF FRAMING NOTES

- ATTIC ACCESS HATCH TO BE WEATHER STRIPPED AND INSULATED TO THE SAME VALUE AS THE SURFACE IN WHICH IT IS LOCATED.
- ALL FRAMING HARDWARE TO BE "SIMPSON" OR EQUAL. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
- PRE-ENGINEERED WOOD TRUSSES: INSTALL PER MANUFACTURER'S SPECIFICATIONS. TRUSSES TO BE DESIGNED AND STAMPED BY AN ENGINEER LICENSED IN THE STATE OF WASHINGTON. PROVIDE SHOP DRAWINGS FOR DESIGNER'S REVIEW AND APPROVAL.
- CROSS HATCHING (IF PRESENT) INDICATES OVERFRAMING. OVERFRAMING TO BE 2 X 6 NO. 2 HF RAFTERS AT 24" OC U.N.O. ROOF PITCH PER PLAN.
- ALL POST DOWNS TO BE POSITIVELY CONNECTED WITH "SIMPSON" OR EQUAL FRAMING ANCHORS.
- PROVIDE "SIMPSON" OR EQUAL H1 TIE AT EACH END OF RAFTER OR TRUSS.
- ROOF SHEATHING SHALL BE MINIMUM 7/16" APA RATED SHEATHING WITH A PANEL INDEX OF 24/0. NAIL TO FRAMING WITH 8d COMMON NAILS AT 4" OC AT PANEL EDGES AND 12" OC IN THE FIELD.



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PROPOSED NEW RESIDENCE
EDWARD & CATHERINE MORAN
5028 WEST MERCER WAY
MERCER ISLAND, WA 98040

ROOF FRAMING PLAN

SHEET	S-6
OF	1
JOB #	

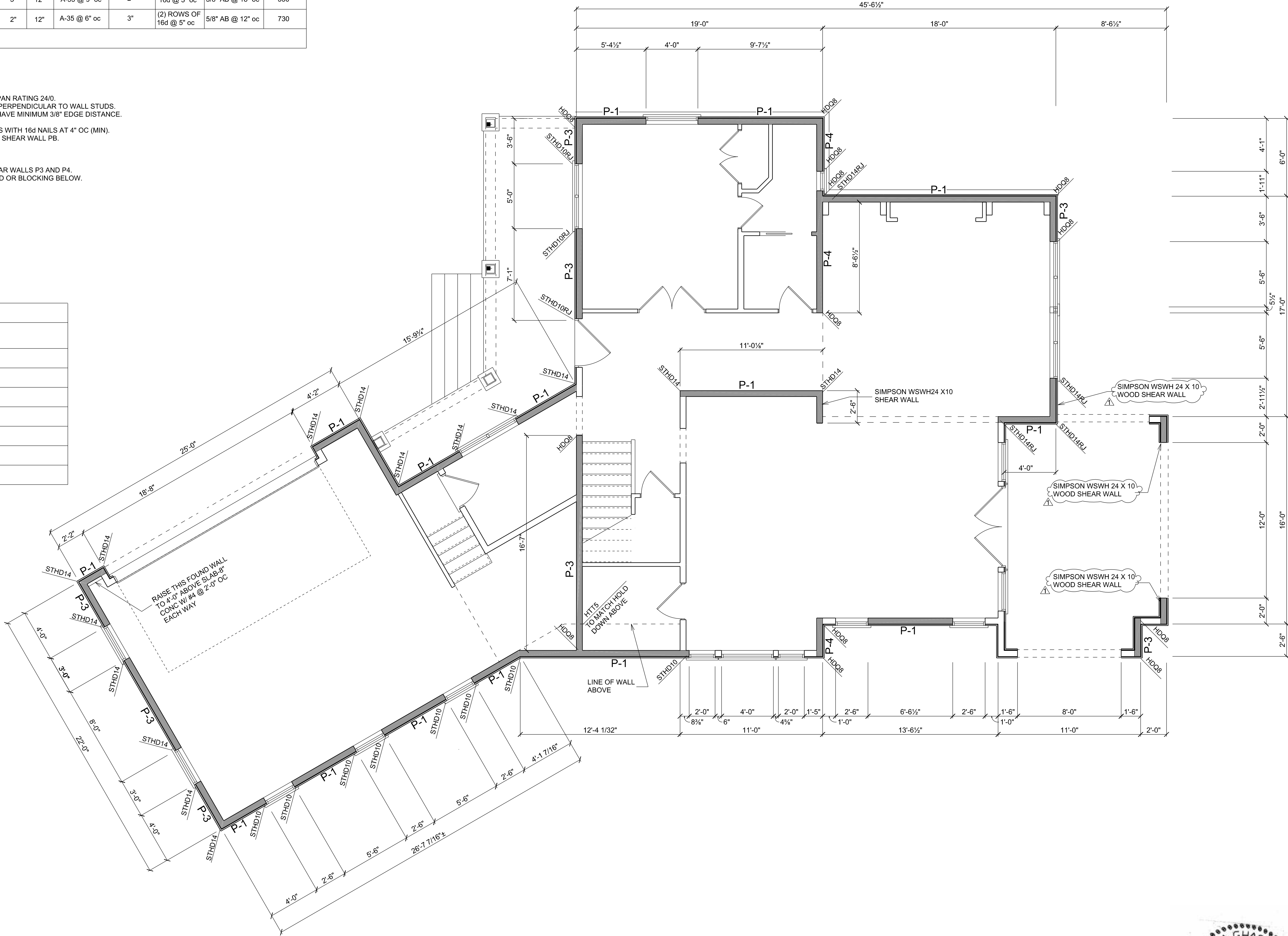
SHEAR WALL SCHEDULE (DOUG FIR STUDS, TOP & BOTTOM PLATES)											
MARK	SHEATHING	BLOCKING	NOMINAL THICKNESS OF SINGLE BLOCKING SILL PLATE	NAIL SIZE	NAIL SPACING		CONNECTION OF JOISTS TO BLOCKING TO TOP PLATES	NOMINAL THICKNESS OF SINGLE BLOCKING RIM JOIST	BOTTOM PLATE CONNECTION		SHEAR CAPACITY (LB/FT)
					EDGE	FIELD			WOOD	CONCRETE	
P-1	7/16" APA RATED SHEATHING (ONE SIDE)	YES	2"	8d COMMON	6"	12"	A-35 @ 18" oc	2"	16d @ 6" oc	5/8" AB @ 32" oc	280
P-2	7/16" APA RATED SHEATHING (ONE SIDE)	YES	2"	8d COMMON	4"	12"	A-35 @ 12" oc	2"	16d @ 4" oc	5/8" AB @ 24" oc	430
P-3	7/16" APA RATED SHEATHING (ONE SIDE)	YES	3"	8d COMMON	3"	12"	A-35 @ 9" oc	2"	16d @ 3" oc	5/8" AB @ 18" oc	550
P-4	7/16" APA RATED SHEATHING (ONE SIDE)	YES	3"	8d COMMON	2"	12"	A-35 @ 6" oc	3"	(2) ROWS OF 16d @ 5" oc	5/8" AB @ 12" oc	730

SHEAR WALL & HOLD-DOWN NOTES (U.N.O.)

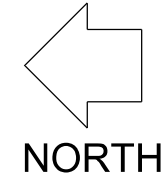
1. APA RATED SHEATHING SHALL BE EXP1/EXP2/EXT OR C-C/C-D/STRUCT II, SPAN RATING 24/0.
2. PLYWOOD AT SHEAR WALLS MAY BE LAID WITH FACE GRAIN PARALLEL OR PERPENDICULAR TO WALL STUDS.
3. FASTENERS SHALL BE DRIVEN FLUSH WITH SURFACE OF SHEATHING AND HAVE MINIMUM 3/8" EDGE DISTANCE.
4. PROVIDE PLYWOOD EDGE NAILING TO ALL POSTS INSIDE SHEAR WALLS.
5. NAIL END STUDS ALL OF ALL SHEAR WALLS TO TRANSVERSE BEARING WALLS WITH 16d NAILS AT 4" OC (MIN).
6. OFFSET PANEL JOINTS ON EACH SIDE OF WALL MINIMUM ONE STUD BAY AT SHEAR WALL PB.
7. USE 1/4" X 3" X 3" PLATE WASHERS ON ALL ANCHOR BOLTS.
8. SOLID BLOCKING SHALL BE INSTALLED AT ALL PLYWOOD JOINTS.
9. BOTTOM PLATE SHALL BE 3X NOMINAL AT SHEAR WALLS P3 AND P4.
10. STUDS AND BLOCKING AT PLYWOOD JOINTS SHALL BE 3X NOMINAL AT SHEAR WALLS P3 AND P4.
11. FOR DOUBLE ROWS OF BOTTOM PLATE NAILS, PROVIDE DOUBLE RIM BOARD OR BLOCKING BELOW.

NAIL DESCRIPTION	NAIL SIZE
8d COMMON	0.131" DIA X 2-1/2" LONG
10d COMMON	0.148" DIA X 3" LONG
16d COMMON	0.162" DIA X 3-1/2" LONG

HOLD-DOWN SCHEDULE		
HOLD-DOWN OR STRAP	POST/END STUD (MIN)	NAILS/BOLTS
CS16	2X	(22) 10d X 2-1/2"
(2) CS16	(2) 2X	(44) 10d X 2-1/2"
CMSTC16	(2) 2X	(50) 10d X 3-1/4"
HTT5	(2) 2 X 6 OR 4 X 6	(26) 16d X 1-1/2" SIMPSON SB 5/8" X 24 BOLT
HDQ8	4 X 6	(20) 1/4" X 3" SDS SCREWS (28) 1" X 30" BOLT
STHD10/10RJ	(2) 2X	(28) 10d X 3-1/4"
STHD14/14RJ	(2) 2X	(30) 10d X 3-1/4"



MAIN LEVEL SHEAR WALL PLAN
SCALE 1/4" = 1'-0"



REVISION EDITION
1 12/08/2022
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CHECKED BY: A.G.
DATE: 11-30-2021

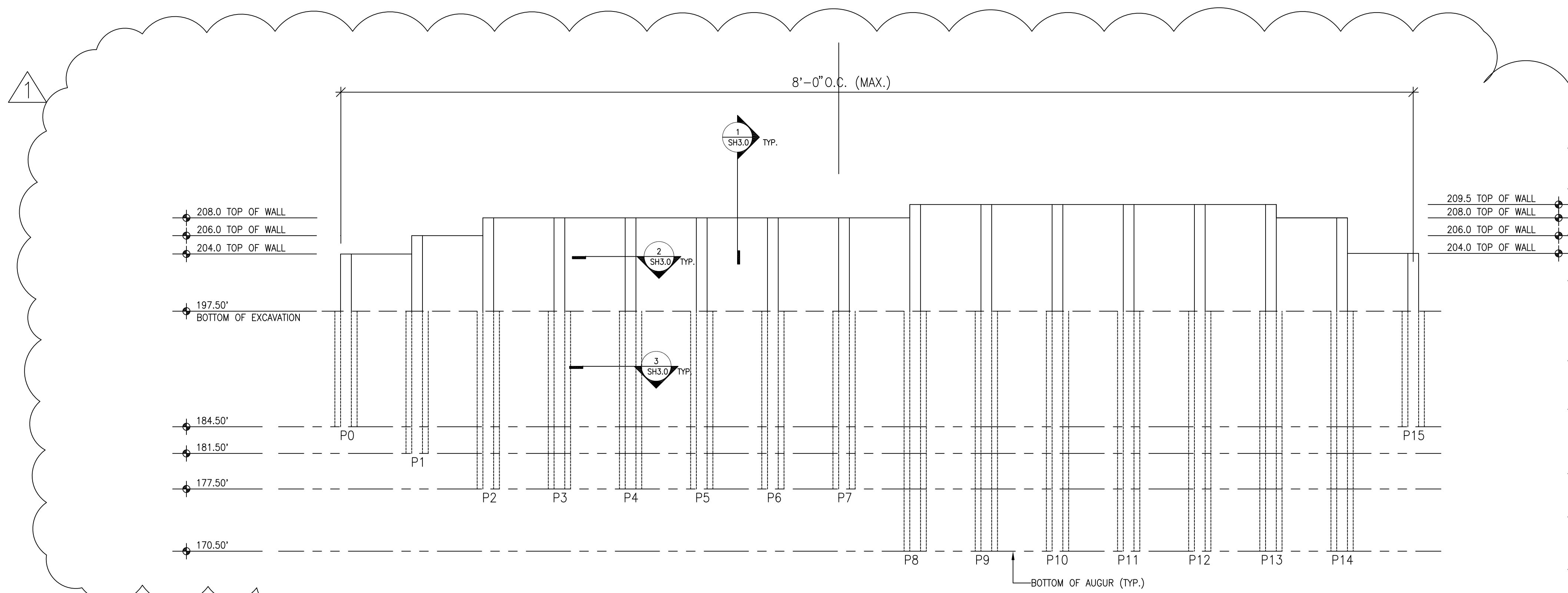
PHONE: 425-351-5899
RELEVUE, WA 98008

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PROPOSED NEW RESIDENCE
EDWARD & CATHERINE MORAN
5028 WEST MERCER WAY
MERCER ISLAND, WA 98040

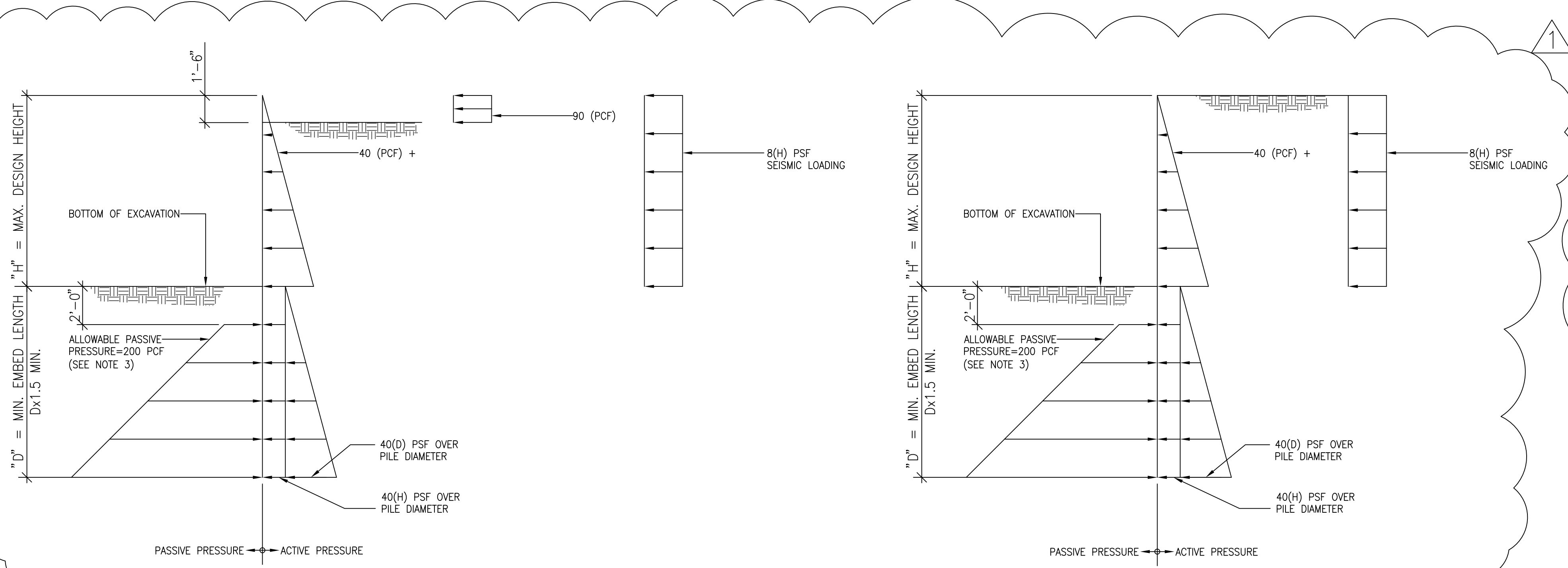
MAIN LEVEL SHEAR WALL PLAN

SHEET
S-7
OF
-
JOB #



- NOTES:
1. SAFETY FACTOR = 1.5 (PER SOIL'S REPORT)
 2. MINIMUM EMBEDMENT SOLDIER PILE BELOW THE BASE OF EXCAVATIONS PER PILE SCHEDULE ON SHEET SH-1.
 3. PASSIVE EARTH PRESSURE IS TAKEN OVER 2-PILE DIAMETERS.
 4. EARTH PRESSURE ON LAGGING BETWEEN SOLDIER PILES IS REDUCED BY 50% PER SOIL'S REPORT.
 5. MAXIMUM PILE SPACING IS 8'-0".
 6. CONTRACTOR TO VERIFY EXISTING GRADES.
 7. SEE SOIL'S REPORT FOR RECOMMENDATION DURING EXCAVATION AND TEMPORARY SHORING.
 8. SOIL'S ENGINEER SHALL PROVIDE SPECIAL INSPECTION PER 2018 IBC.
 9. PROVIDE SURVEY MONITORING PROGRAM AS REQUIRED BY THE SOIL'S ENGINEER.
 10. REFER SOIL'S REPORT FOR MAINTANANCE SCHEDULE AND DEBRIS CLEAN UP.

1 SHORING EAST WALL ELEVATION
SCALE: 1/8"=1'-0"



PILE SCHEDULE					
"H" (FT) MAX. HT	"D" (FT) MIN. EMBED	PILE SECTION Fy=50 KSI	AUGER DIAMETER (INCHES)	SPACING ON CENTER	PILE NUMBER
6'-6" OR LESS	13'-0"	W16X26	30"	8'-0"	P0, P15
8'-6"	16'-0"	W16X31	30"	8'-0"	P1, P2
10'-6"	20'-0"	W16X50	30"	8'-0"	P3, P4, P5, P6, P7
12'-0"	27'-0"	W16X100	30"	8'-0"	P8, P9, P10, P11, P12, P13, P14

3 SOIL PRESSURE DIAGRAM (P1 THRU P8 & P16)

2 SOIL PRESSURE DIAGRAM (P9 THRU P15)

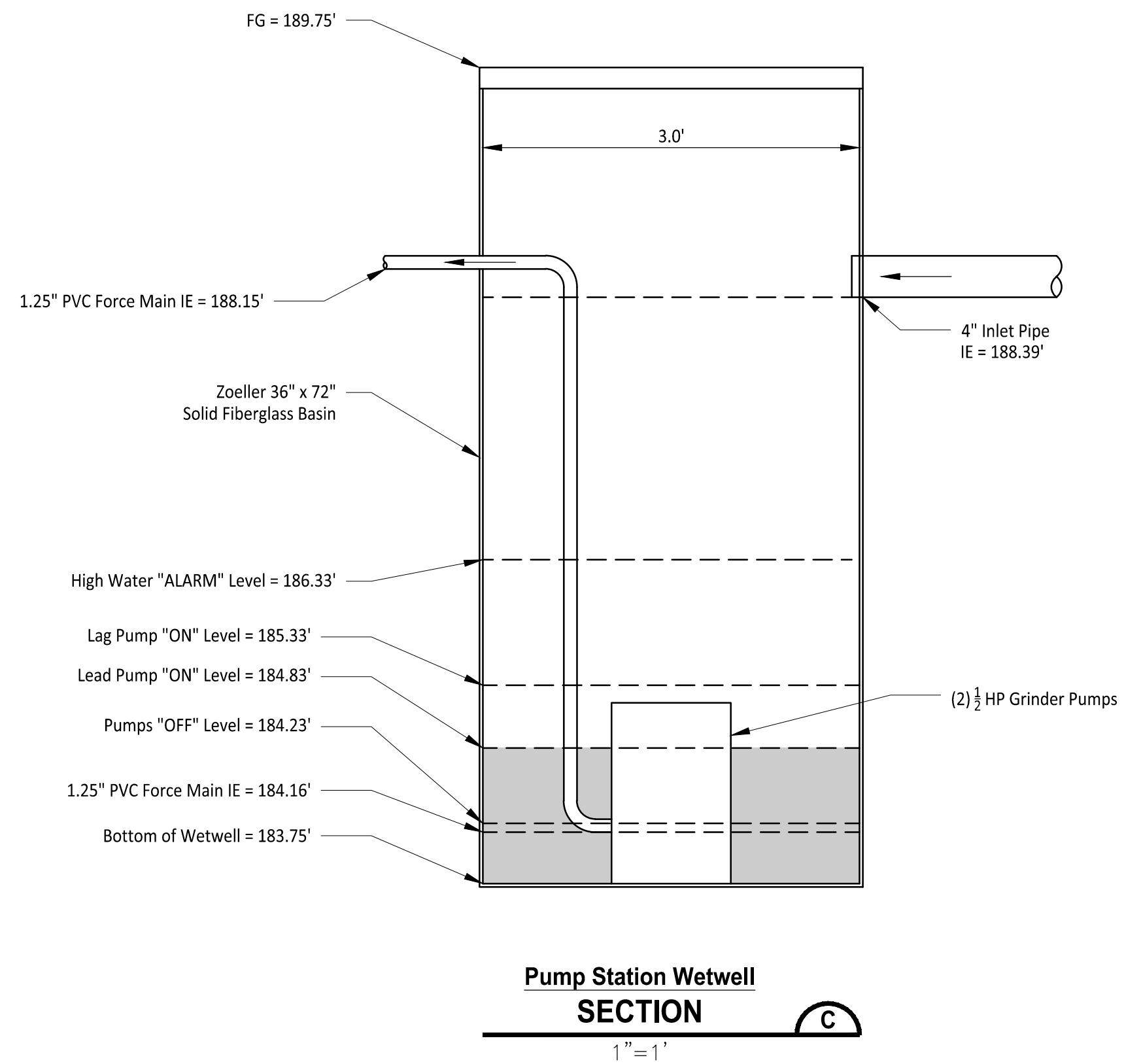
REVISION EDITION 12-8-22
 BLDG DEPT. 2
 DRAWN BY: A.G.
 CHECKED BY: A.G.
 DATE: 11-30-2021

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 P.O. BOX 7255
 BELLEVUE, WA 98008

K I A C O
 CONSULTING STRUCTURAL ENGINEERS

PROPOSED SINGLE FAMILY RESIDENCE
 EDWARD & CATHERINE MORAN
 5000 WEST MERCER WAY
 MERCER ISLAND, WA 98040

ELEVATIONS & NOTES



Pump Station Wetwell
SECTION

1" = 1'

OUTDOOR BASINS AND ACCESSORIES

SIMPLEX OUTDOOR BASINS - FIBERGLASS ONLY - NO HOLES DRILLED

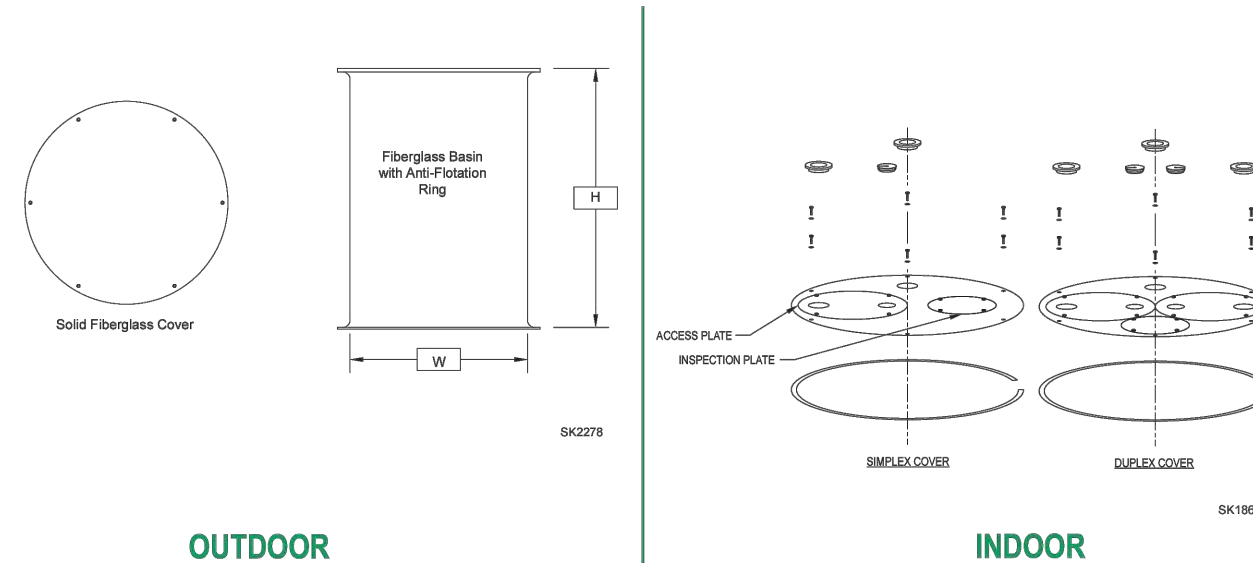
Size	Item No.	Description
24" X 48"	31-0866	Solid Fiberglass Basin with Solid Fiberglass Cover and Anti-Flotation Ring
24" X 60"	31-0946	Solid Fiberglass Basin with Solid Fiberglass Cover and Anti-Flotation Ring
24" X 72"	31-0984	Solid Fiberglass Basin with Solid Fiberglass Cover and Anti-Flotation Ring
30" X 48"	31-1830	Solid Fiberglass Basin with Solid Fiberglass Cover and Anti-Flotation Ring
30" X 60"	31-1831	Solid Fiberglass Basin with Solid Fiberglass Cover and Anti-Flotation Ring
30" X 72"	31-1586	Solid Fiberglass Basin with Solid Fiberglass Cover and Anti-Flotation Ring

All basins include 5 field installed adapta-flex seals - (1) 1 1/2", (1) 1 1/2", (2) 2" and (1) 4" grommets.

DUPLEX OUTDOOR BASINS - FIBERGLASS ONLY - NO HOLES DRILLED

Size	Item No.	Description
36" X 48"	31-1450	Solid Fiberglass Basin with Solid Fiberglass Cover and Anti-Flotation Ring
36" X 60"	31-1451	Solid Fiberglass Basin with Solid Fiberglass Cover and Anti-Flotation Ring
36" X 72"	31-1452	Solid Fiberglass Basin with Solid Fiberglass Cover and Anti-Flotation Ring

All basins include 5 field installed adapta-flex seals - (1) 1 1/2", (1) 1 1/2", (2) 2" and (1) 4" grommets.
ADDITIONAL BASIN SIZES WITH OPTIONS (i.e. Rail Studs) ARE AVAILABLE. CONSULT FACTORY.



OUTDOOR TANK VENTS

Item No.	Color	Material	Size	Dimension (W x H)	Pipe Area	Screen Area
10-1753	Black	Plastic	2" Female NPT	4.625" X 3.125"	3.1 sq. in.	6.9 sq. in.
10-1461	Green	Metal	2" Female NPT	4.625" X 3.125"	3.1 sq. in.	6.9 sq. in.
10-1462	Green	Metal	3" Female NPT	6.875" X 4.500"	7.1 sq. in.	19.6 sq. in.
10-1463	Green	Metal	4" Female NPT	9.250" X 5.000"	12.6 sq. in.	35.8 sq. in.
10-1464	Green	Metal	6" Female NPT	11.125" X 6.625"	28.3 sq. in.	42.5 sq. in.



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SECTION: 225.021
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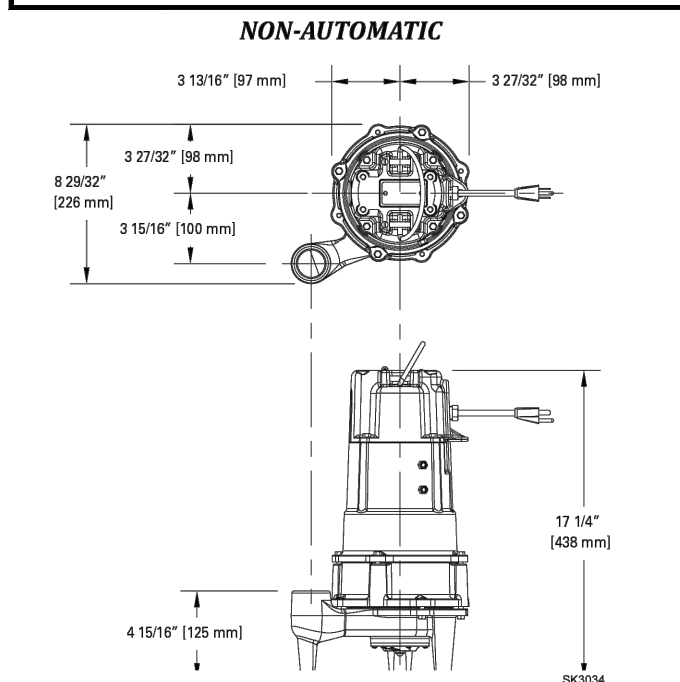
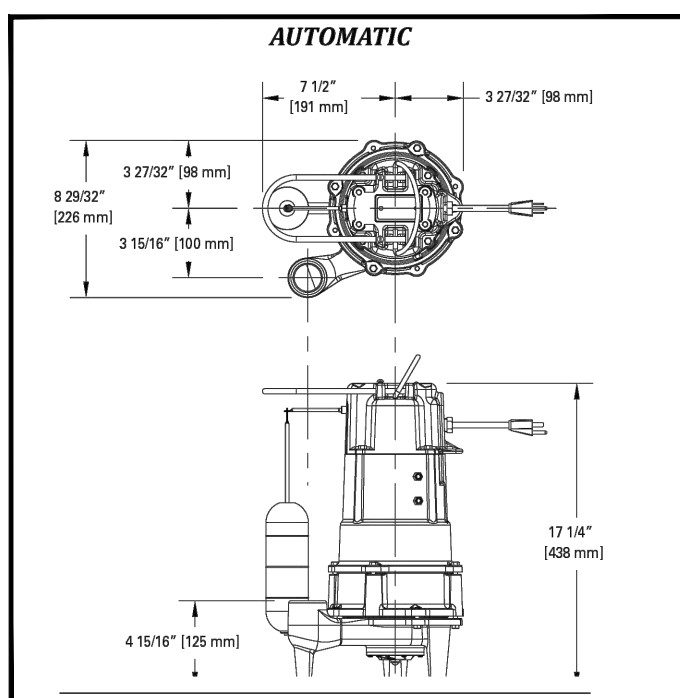
U.S. Patent No.
8,562,287

TECHNICAL DATA SHEET
SHARK GRINDER
Model 803/805/807 Residential Grinder Pumps

PRODUCT SPECIFICATIONS

MOTOR	Specification
Horse Power	0.5 - 1.0
Voltage	115/230
Phase	1 Ph
Hertz	60 Hz
RPM	3400
Type	Capacitor start / Capacitor run
Insulation	Class B
Amps	115 V (7-11) / 230 V (3-6)

PUMP	Specification
Operation	Automatic & nonautomatic
Auto On/Off Points	1 1/2" (38 mm) / 5-3/4" (14.6 cm)
Discharge Size	1.25" NPT
Cord Length	15' (5 m) standard
Cord Type	UL listed 3-wire plug
Max. Head	58' (16.8 m)
Max. Operating Temp.	130° F (54 °C)
Cooling	Oil
Motor Protection	Auto reset thermal overload (1 Ph)
Cover	Cast iron
Motor housing	Cast iron
Adapter	Cast iron
Pump housing	Cast iron
Upper Bearing	Ball bearing
Lower Bearing	Ball bearing
Mechanical Seals	Carbon and ceramic
Impeller Type	Non-clogging vortex
Impeller	Engineered plastic
Hardware	Stainless steel
Motor Shaft	1215 cold rolled steel
Gasket	Necoprene
Cutter & Plate	440C Stainless Steel



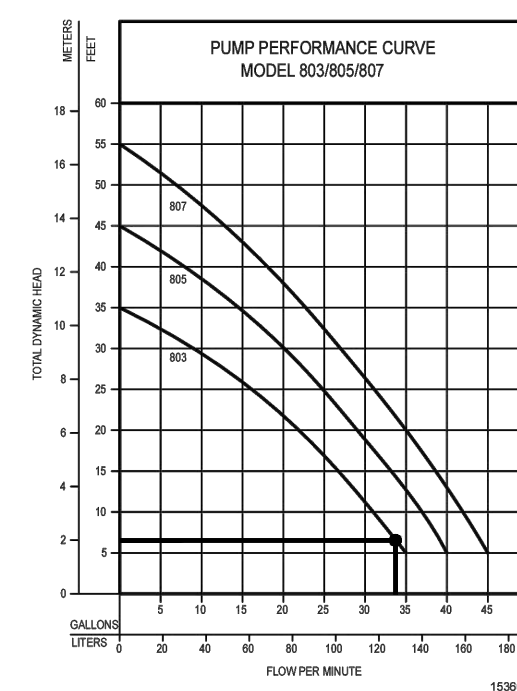
NOTE: The sizing of effluent systems normally requires variable level float(s) controls and properly sized basins to achieve required pumping cycles or dosing timers with nonautomatic pumps.
NOTE: See model comparison chart for specific details.



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TOTAL DYNAMIC HEAD
FLOW PER MINUTE

MODEL	803	805	807
Feet	15	25	35
Meters	4.6	7.6	10.7
Gal	117	140	159
Liters	4400	5300	6000
Gal	29	29	29
Liters	880	880	880
Gal	27	27	27
Liters	800	800	800
Gal	8	8	8
Liters	240	240	240
Head	35 ft (10.7 m)	45 ft (13.7 m)	55 ft (16.8 m)



Model	MODEL COMPARISON										
	Seal	Mode	Volts	Ph	Amps	HP	Hz	Lbs.	Kg	Simplex	Duplex
M803	Single	Auto	115	1	7.0	0.5	60	65	29	1	3
N803	Single	Non	115	1	7.0	0.5	60	65	29	2	2 & 3
BN803	Single	Auto	115	1	7.0	0.5	60	65	29	4	3
D803	Single	Auto	230	1	3.0	0.5	60	65	29	1	3
E803	Single	Non	230	1	3.0	0.5	60	65	29	2	2 & 3
BE803	Single	Auto	230	1	3.0	0.5	60	65	29	4	3
M805	Single	Auto	115	1	9.0	0.75	60	65	29	1	3
N805	Single	Non	115	1	9.0	0.75	60	65	29	2	2 & 3
BN805	Single	Auto	115	1	9.0	0.75	60	65	29	4	3
D805	Single	Auto	230	1	4.0	0.75	60	65	29	1	3
E805	Single	Non	230	1	4.0	0.75	60	65	29	2	2 & 3
BE805	Single	Auto	230	1	4.0	0.75	60	65	29	4	3
M807	Single	Auto	115	1	11.0	1.0	60	65	29	1	3
N807	Single	Non	115	1	11.0	1.0	60	65	29	2	2 & 3
BN807	Single	Auto	115	1	11.0	1.0	60	65	29	4	3
D807	Single	Auto	230	1	5.0	1.0	60	65	29	1	3
E807	Single	Non	230	1	5.0	1.0	60	65	29	2	2 & 3
BE807	Single	Auto	230	1	5.0	1.0	60	65	29	4	3

SELECTION GUIDE

- Integral float-operated mechanical switch, no external control required.
- For automatic use single piggyback variable level float switch or double piggyback variable level float switch. Refer to FM0477.
- See FM0486 for correct model of duplex control panel.
- Single piggyback switch included.

CAUTION All installation of controls, protection devices and wiring should be done by a qualified licensed electrician. All electrical and safety codes should be followed including the most recent National Electrical Code (NEC) and the Occupational Safety and Health Act (OSHA).

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Owner/Developer:

Edward & Catherine Moran
5000 West Mercer Way
Mercer Island, WA 98040

Architect:

Plan One Fine Home Design
5125 47th Ave S
Seattle, WA 98118
206-612-8511

Engineer:



Justin Jones, PE
PO Box 2066
Summer, WA 98390
(206) 596-2020

Project:

Moran Residence

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY



REV	DATE	DESCRIPTION

SHEET TITLE:

Details

PROJ. NO: 1576001

DATE: March 21, 2023

DRAWN BY:

DESIGN BY:

SHEET NUMBER:

C-08

DWG.

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