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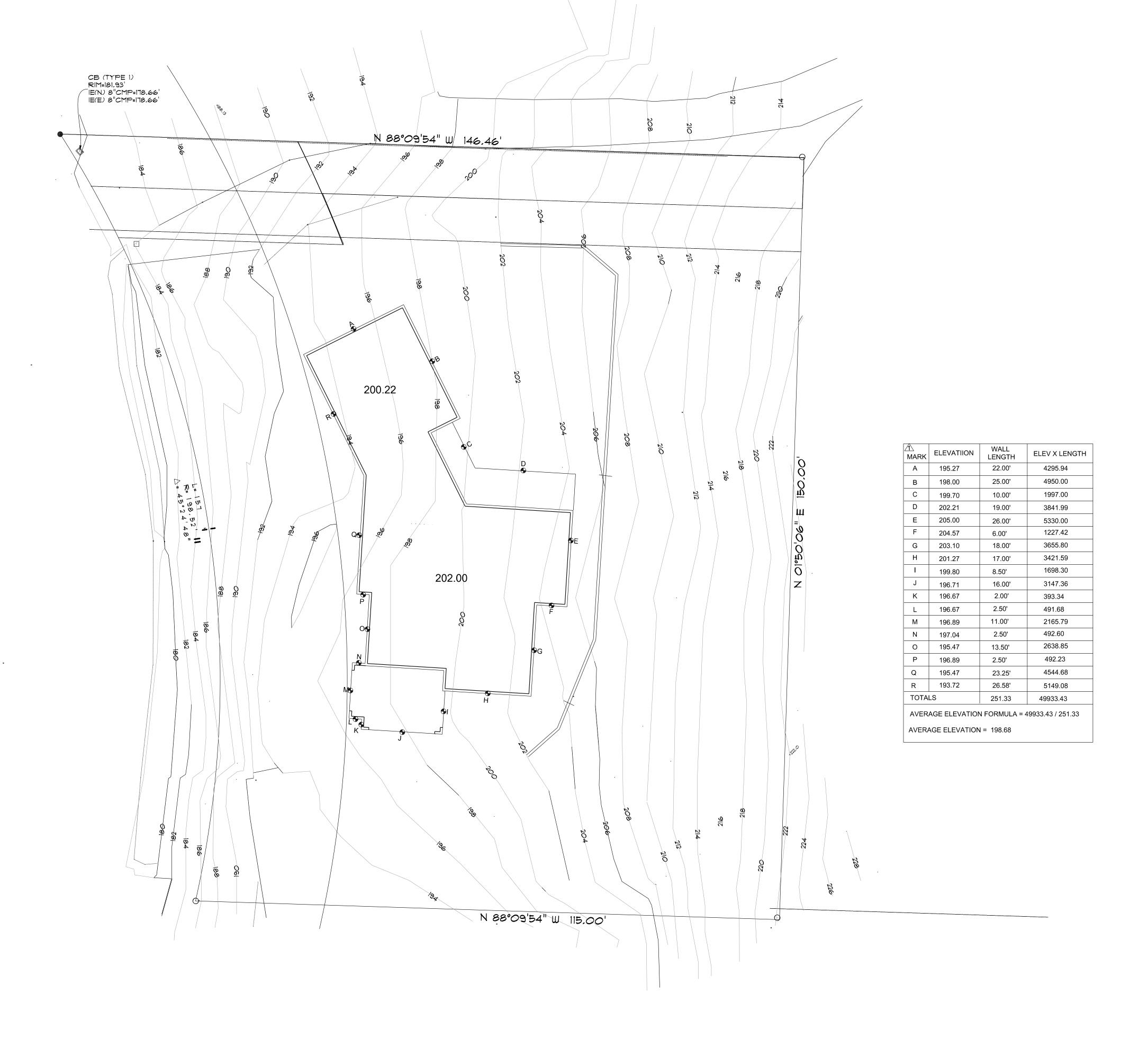
APRIL 25, 2022 PLAN NO.

LOT COVERAGE									
PROP	OSED 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								
D. Allowed Lot Coverage 35 % C								
E. Existing Lot Coverage	0	Square Feet						
F. Total Lot Coverage Area Removed	0	Square Feet						
I. Total New Lot Coverage Area								
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								
18,295 Square Feet								
16,865 Square Feet								
H. Total New Lot Hardsacape Area								
119 Square Feet								
44 Square Feet								
Retaining Walls 70 Square Feet								
dscape Area (H 3 + H 4 + H 5) 233 Square Feet								
dsacape Area 233 Square Feet								
dsacape Area = (I / B) x 100 1.4 Square Feet								
Retaining Walls 70 Squadscape Area (H 3 + H 4 + H 5) 233 Squadsacape Area 233 Squadsacape Area								

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	%				



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



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INE MORAN

EDWARD & CATHERINE Nest Mercer Island, WA 9

E HOME DESIGN
47th Avenue S

RAWN BY WMG

DATE
APRIL 25, 2022
PLAN NO.

SHEET NO.

ET NO.

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' I NTERVALS 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.

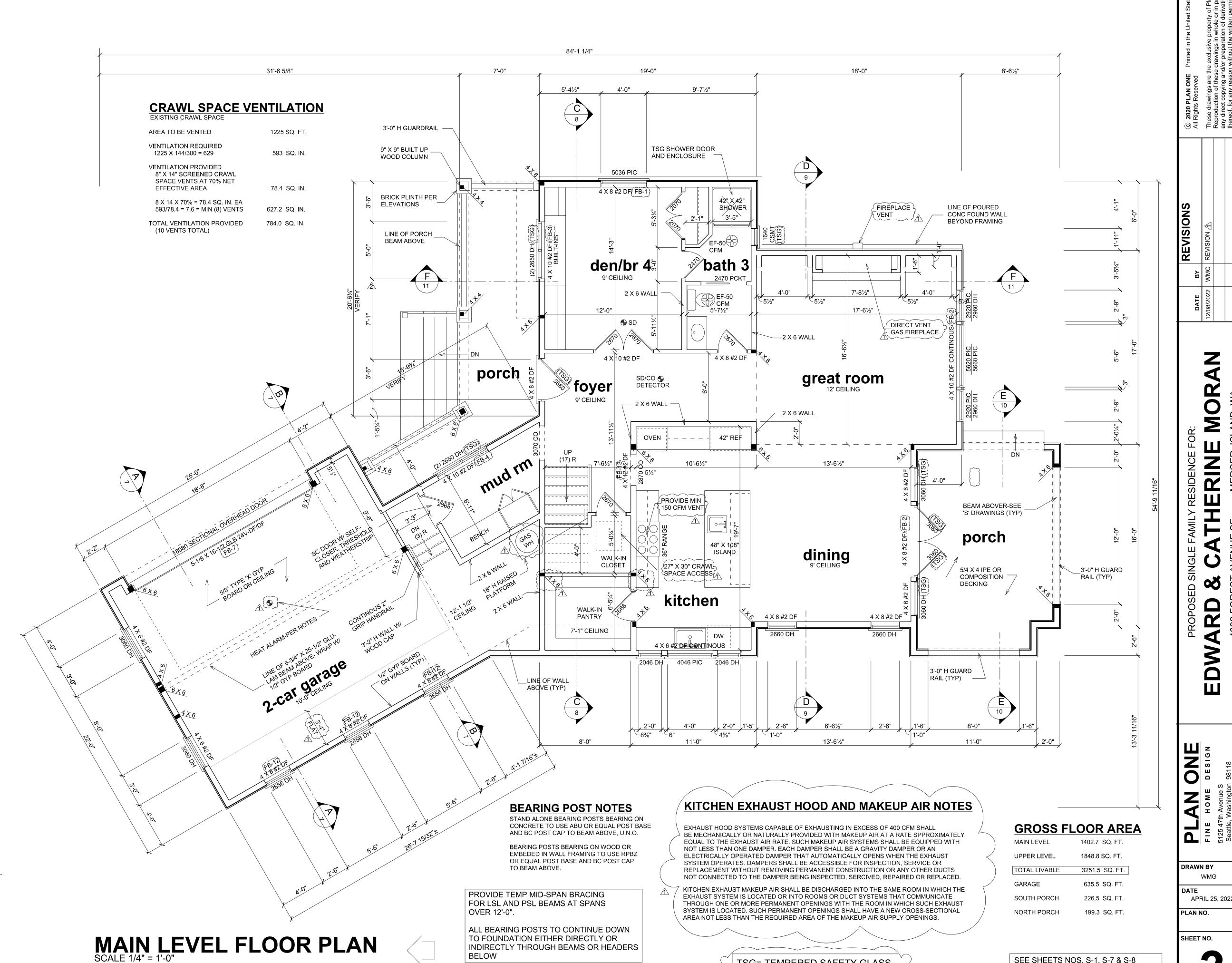
INDOOR AIR QUALITY

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
- WHOLE HOUSE VENTILATION TO BE PROVIDED BY LOCAL EXHAUST FAN PER IRC M1507.3.4. WHOLE HOUSE FAN TO BE ENERGY EFFICIENT AT .35 WATTS PER CFM.

FLOOR PLAN NOTES

- 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 OPENABLE 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)



BELOW

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WMG

APRIL 25, 2022

SEE SHEETS NOS. S-1, S-7 & S-8

AND GENERAL NOTES

FOR SHEAR WALL SCHEDULE, PLANS,

TSG= TEMPERED SAFETY GLASS

ENERGY CODE NOTES

- 1. EACH DWELLING UNIT IS TO BE PROVIDED WITH AT LEAST ONE PROGRAMMABLE THERMOSTAT FOR THE REGULATION OF TEMPERATURE.
- 2. BUILDING AIR LEAKEAGE 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
- 3. DUCT LEAKAGE TEST RESULTS SHALL BE PROVIDED TO THE BUILDING INSPECTOR AND HOMEOWNER PRIOR TO AN APPROVED FINAL INSPECTION.
- 4. 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
- 5. 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 Ù= 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 CHÁNGES 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

- 6. PER WSEC R403.3, DUCTS, AIR HANDLERS AND FILTER BOXES SHALL BE SEALED AND LEAK TESTED
- 7. 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.
- 8. 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.
- 9. 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.
- 10. RECESSED CAN LIGHTS ARE TO BE TYPE 1C RATED AND SEALED.
- 11. 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 THROUGHT R402.4.4.
- 12. 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.

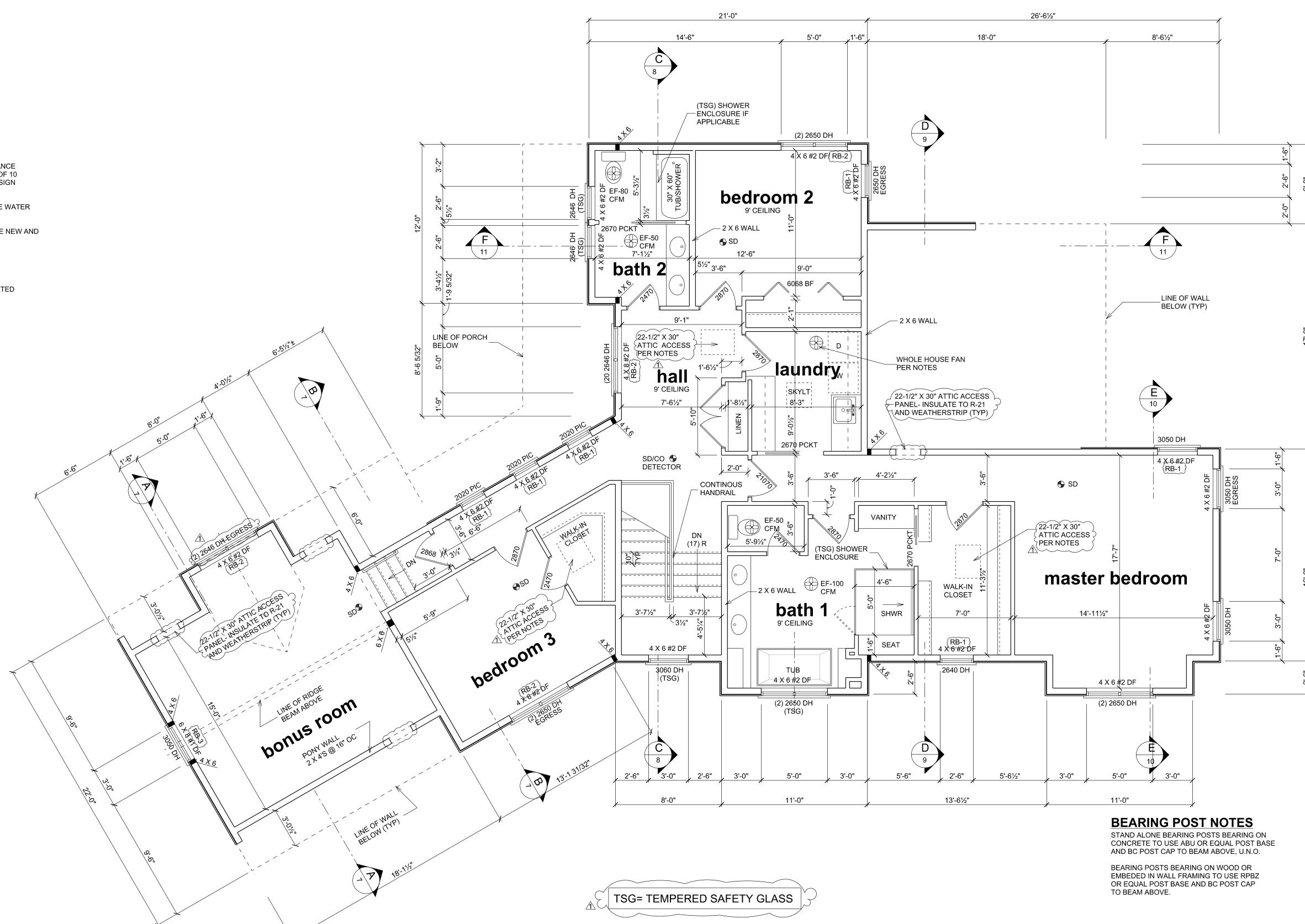
WHOLE HOUSE FAN NOTES

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.
- 2. AN AUTOMATIC CONTROL CLOCK TIMER SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION. THE TIMER SHALL BE CAPABLE OF CONTINOUS 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.
- 3. INTERIOR DOORS SHALL BE UNDERCUT A MINIMUM OF 1/2" ABOVE THE FINISHED FLOOR.
- 4. FRESH AIR INTAKE DUCT TO BE MINIMUM 7" DIAMETER SMOOTH PIPE FOR A MAXIMUM LENGTHE OF 20' AND A MAXUMUM OF 3 ELBOWS.
- 5. FRESH AIR INLET TO BE INSULATED TO A MINIMUM OF R-4 WITHIN HEATED AREAS.
- 6. FRESH AIR INLET TO BE PROTECTED FROM THE ENTRY OF INSECTS,
- 7. FRESH AIR INLET NOT TO BE LOCATED AS FOLLOWS:

LEAVES AND OTHER MATERIAL

- 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.
- 4. THE EXHAUST DUCT SHALL TERMINATE OUTSIDE THE BUILDING AND BE EQUIPPED WITH A BACK-DRAFT DAMPER. THE EEXHAUST DUCT IN UNCONDITIONED SPACES SHALL BE INSULATED TO A MINIMUM OF R-4.



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



INDIRECTLY THROUGH BEAMS OR HEADERS

ALL BEARING POSTS TO CONTINUE DOWN

TO FOUNDATION EITHER DIRECTLY OR

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

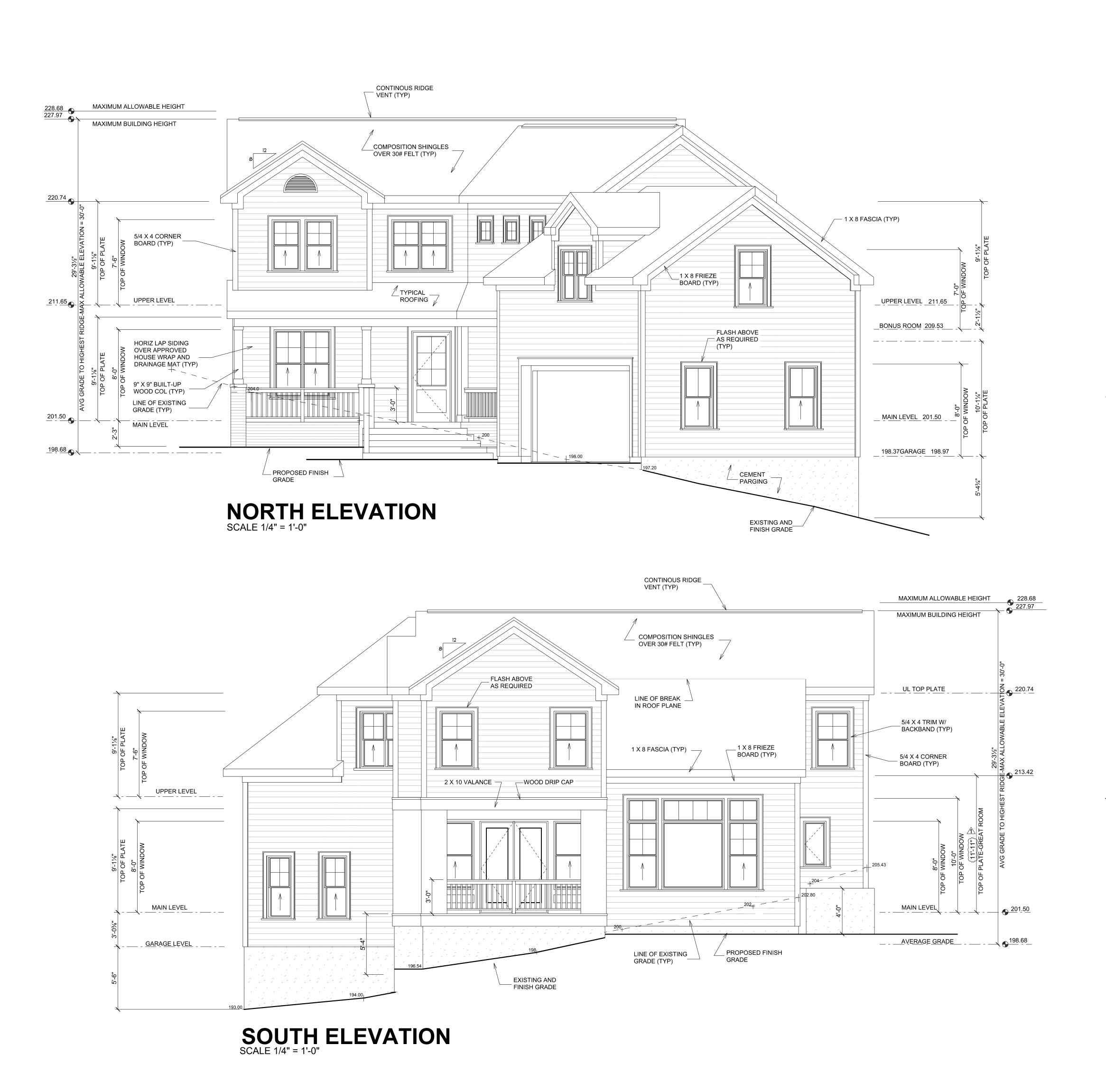
PROVIDE TEMP MID-SPAN BRACING

FOR LSL AND PSL BEAMS AT SPANS

OVER 12'-0".

BELOW

APRIL 25, 2022 PLAN NO.



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ATHERINE MORAN

EDWARD & CATHERI

4882 FOREST AVENUE SE MERG

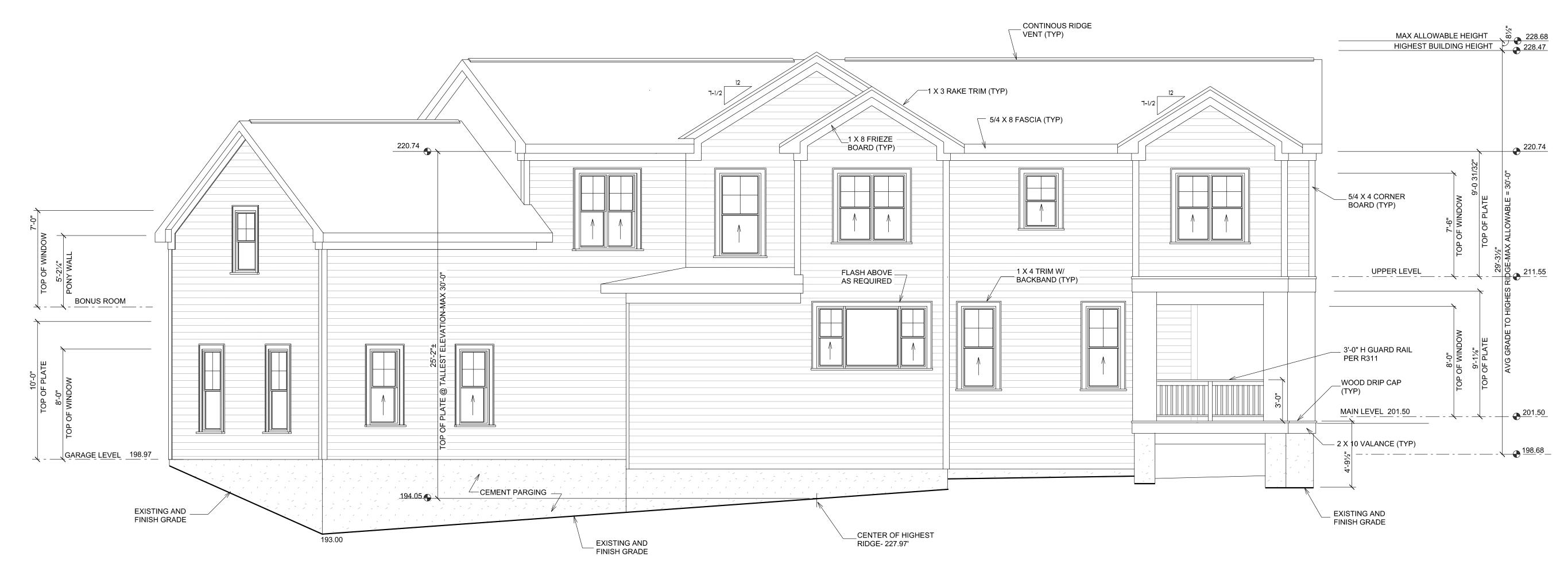
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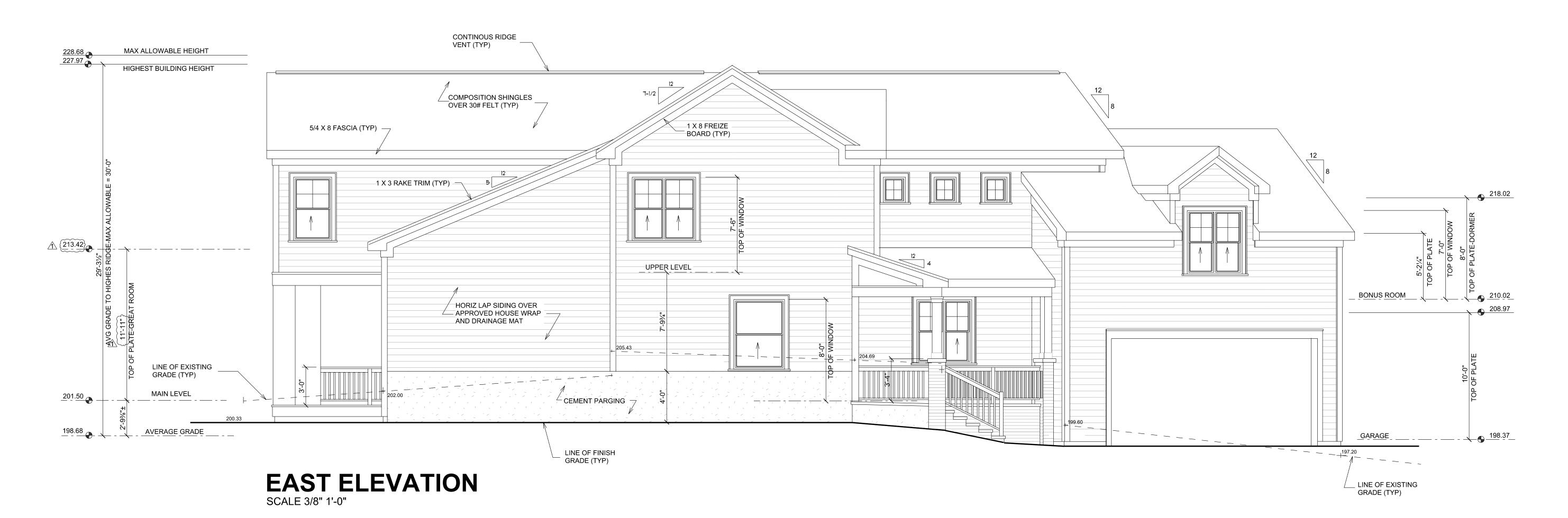
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WEST ELEVATION

SCALE 3/8" 1'-0"



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Seattle, Washington 98118

MORAN

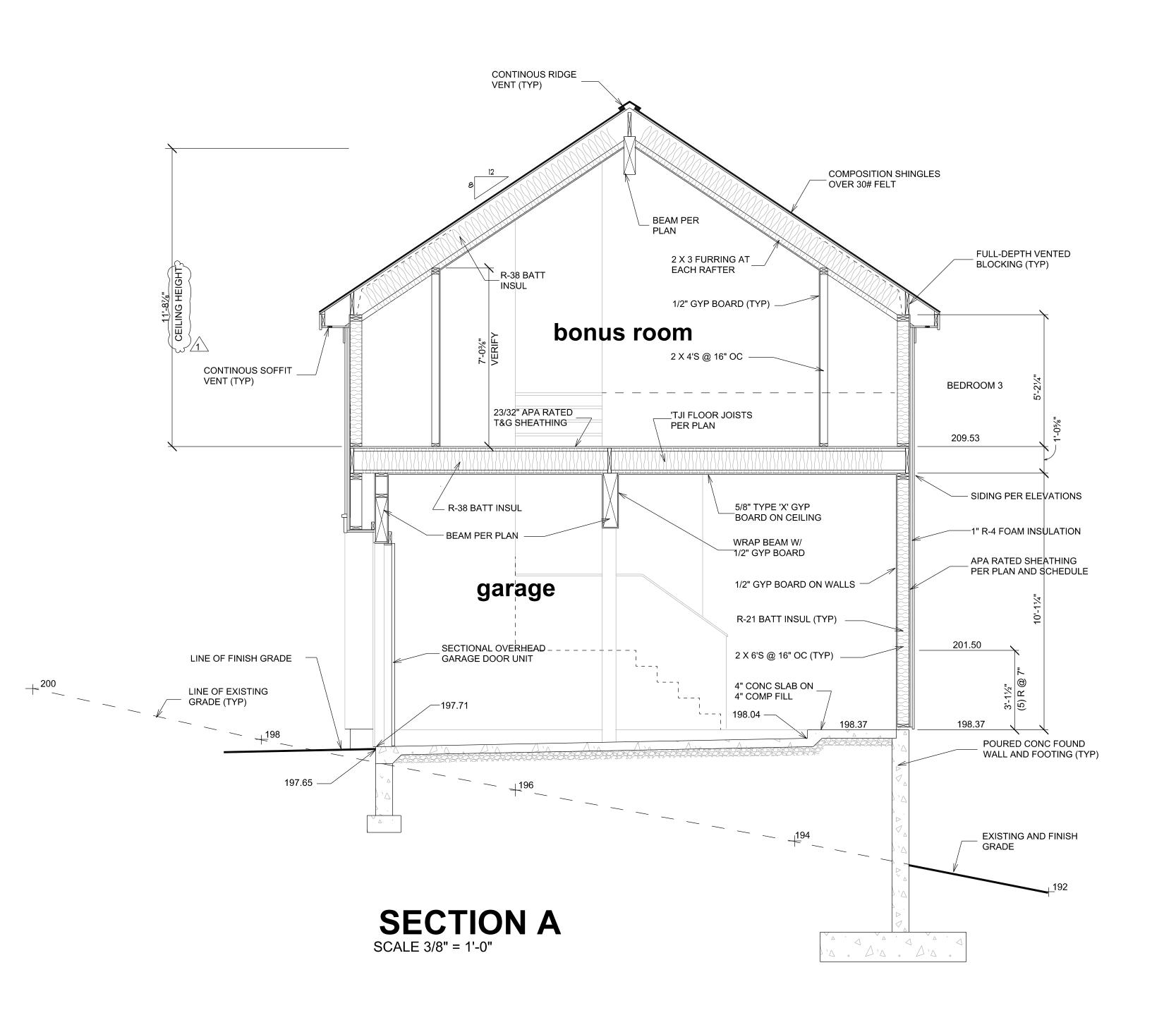
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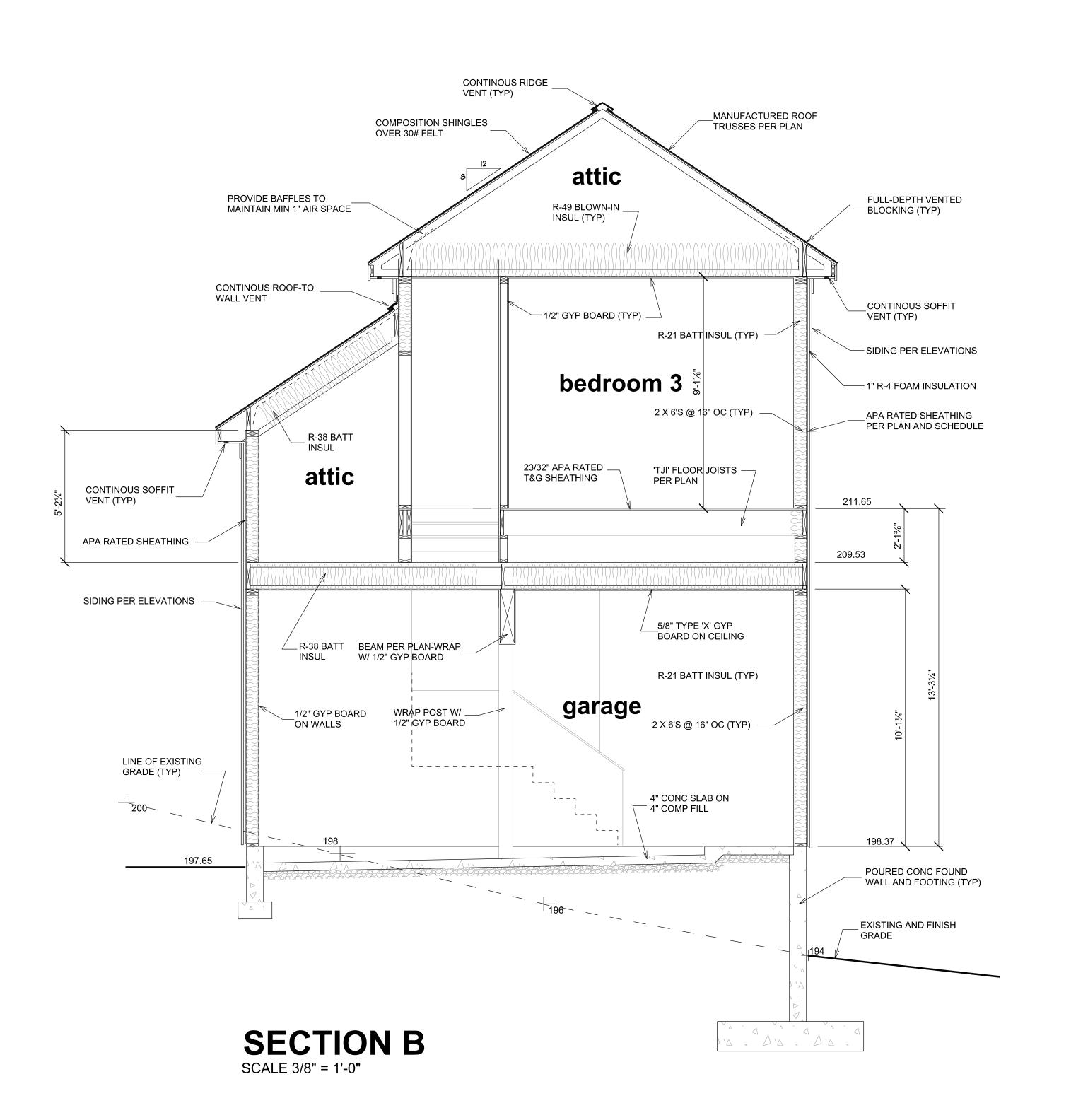
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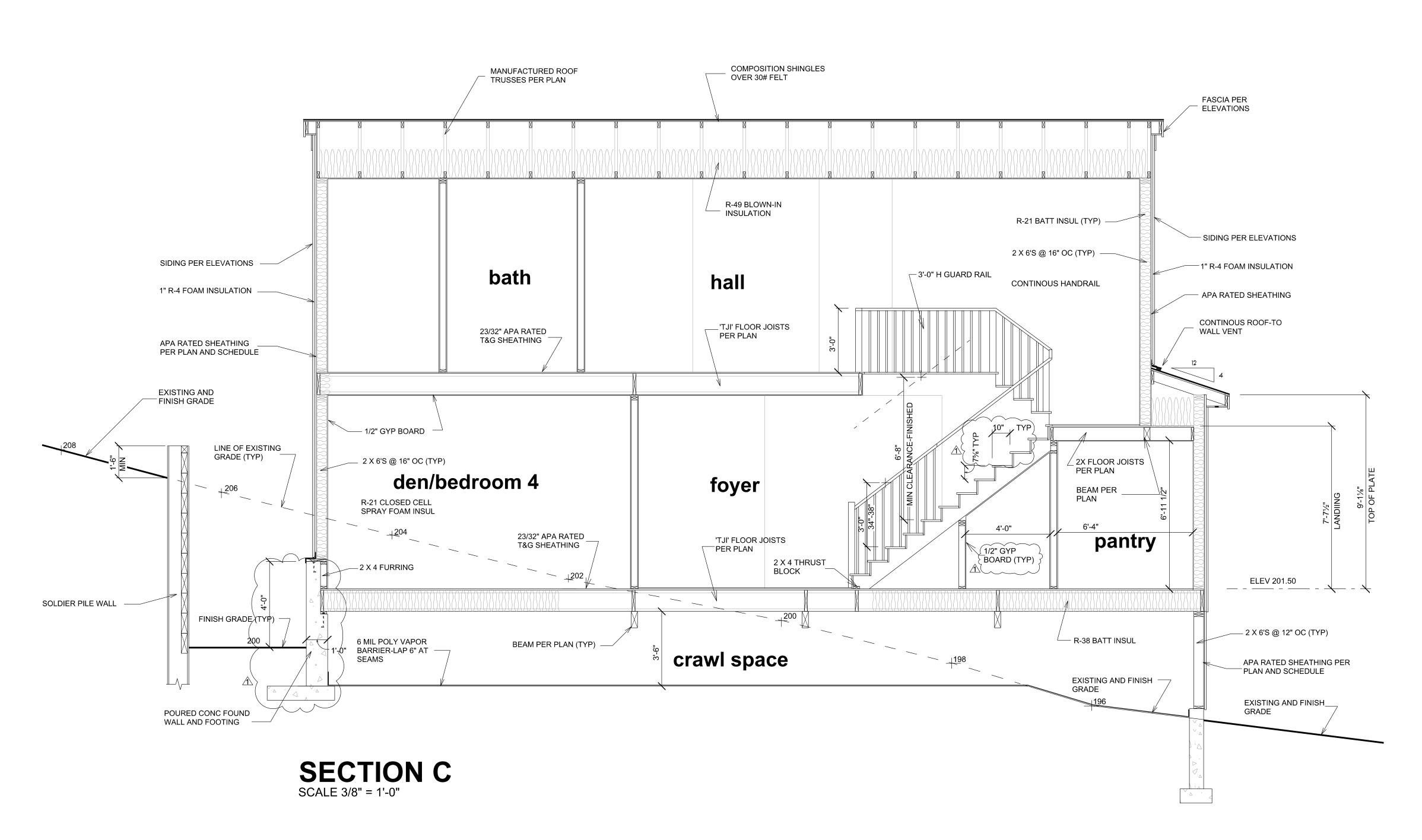
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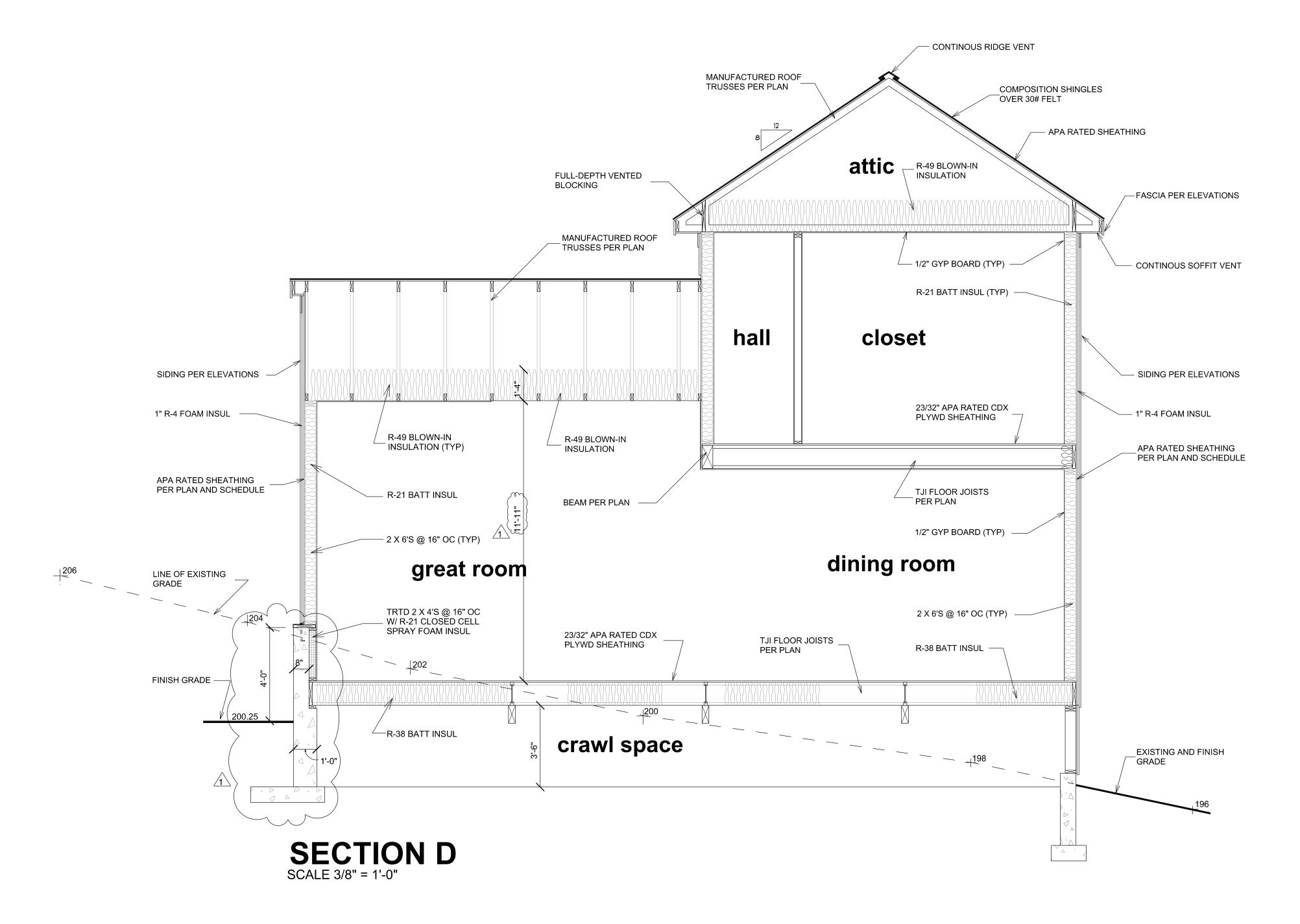
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FOR:
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SLAND, WA

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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.

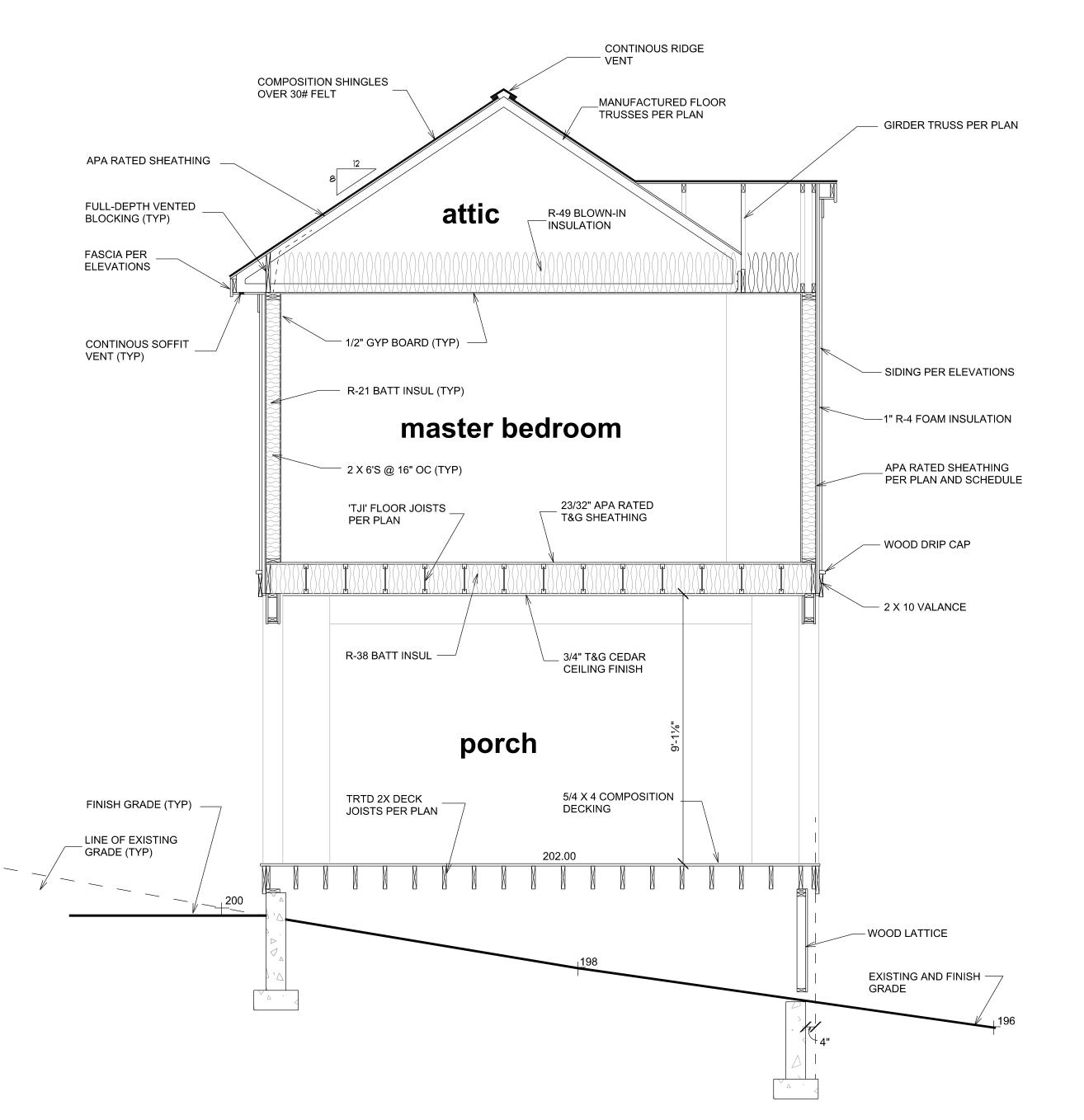
TOTAL CONDITIONED FEOOR AREA = 3203.0 SQ.
TOTAL GLAZING AREA = 817.3 SQ. FT. = 19.2 %
AREA WEIGHTED AVERAGE 'U' VALUE = 0.280

ARE	EA WEIGHTED AVERAGE 'U' VALUE = 0.280							
ROOM	DESCRIPTION	UNIT SIZE	SQUARE F	r. QUANTITY	TOTAL SQ. FT	יטי	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	
	l				+	-		

144.4

614.7

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



SECTION E

SCALE 3/8" 1'-0"

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EDWARD & CATHERINE MC 4882 FOREST AVENUE SE MERCER, ISLAND, W

NE HOME DESIGN
5 47th Avenue S
ittle, Washington 98118

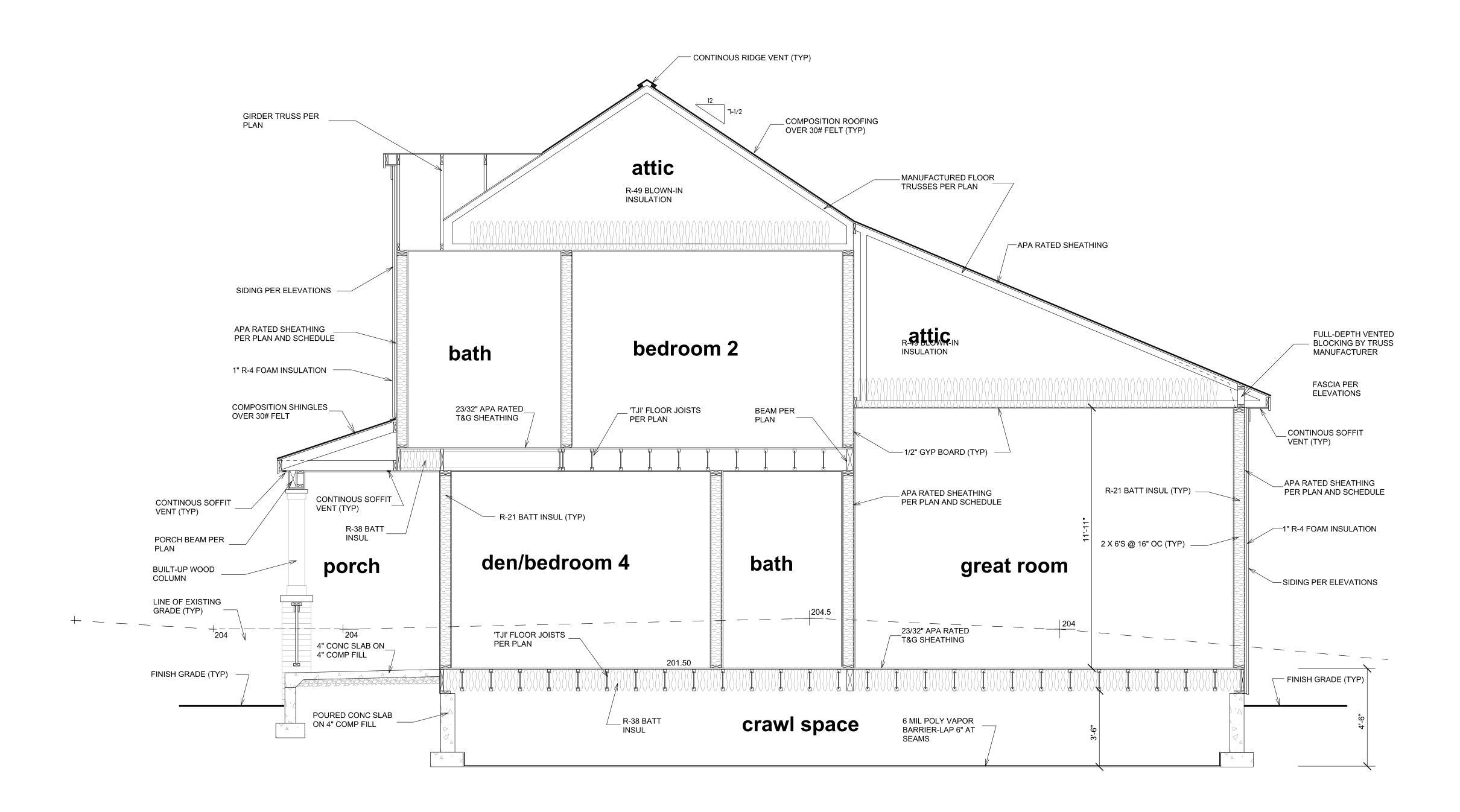
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SECTION F SCALE 3/8" 1'-0"

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EDWARD & CATHERINE MORAN
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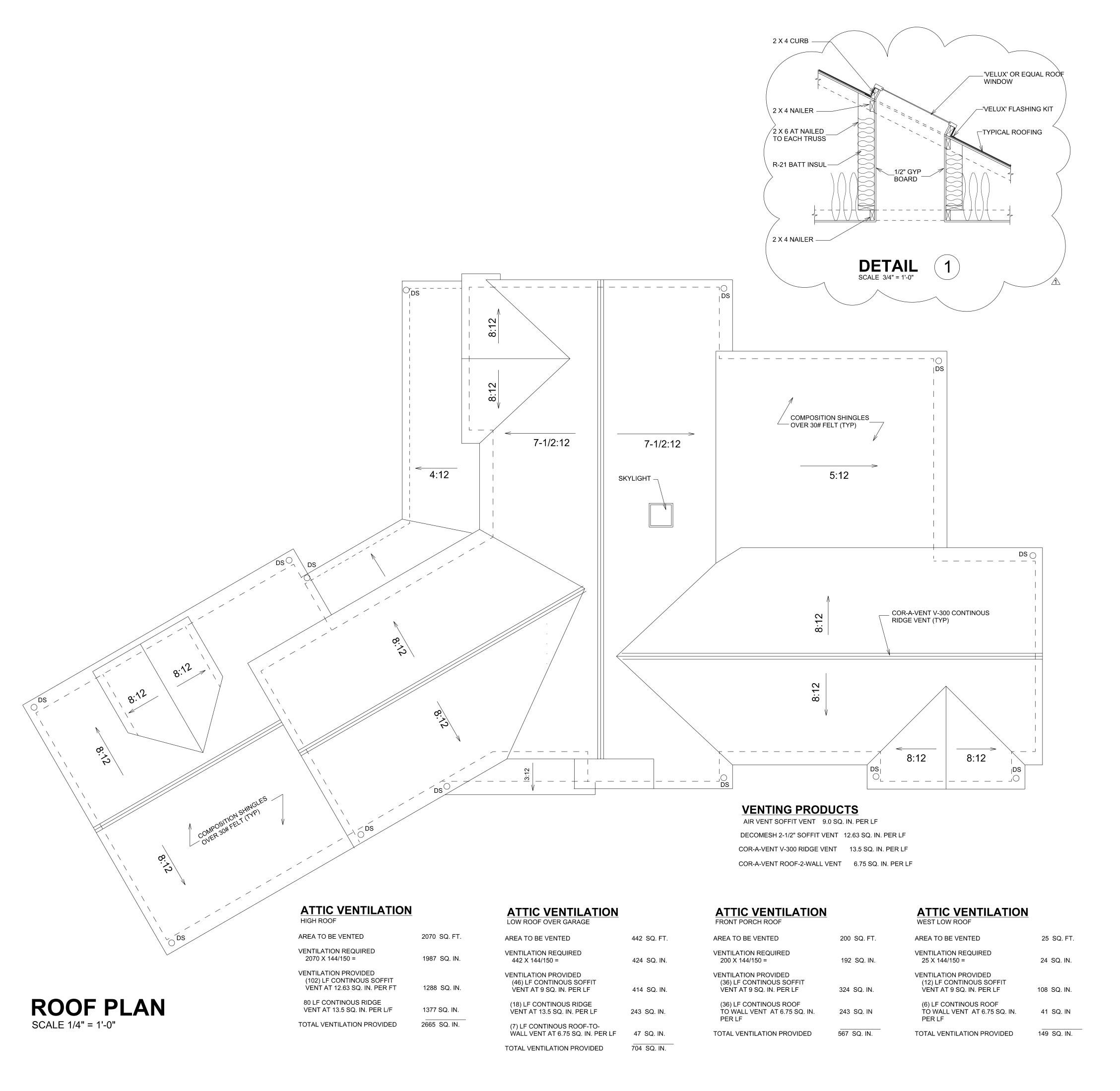
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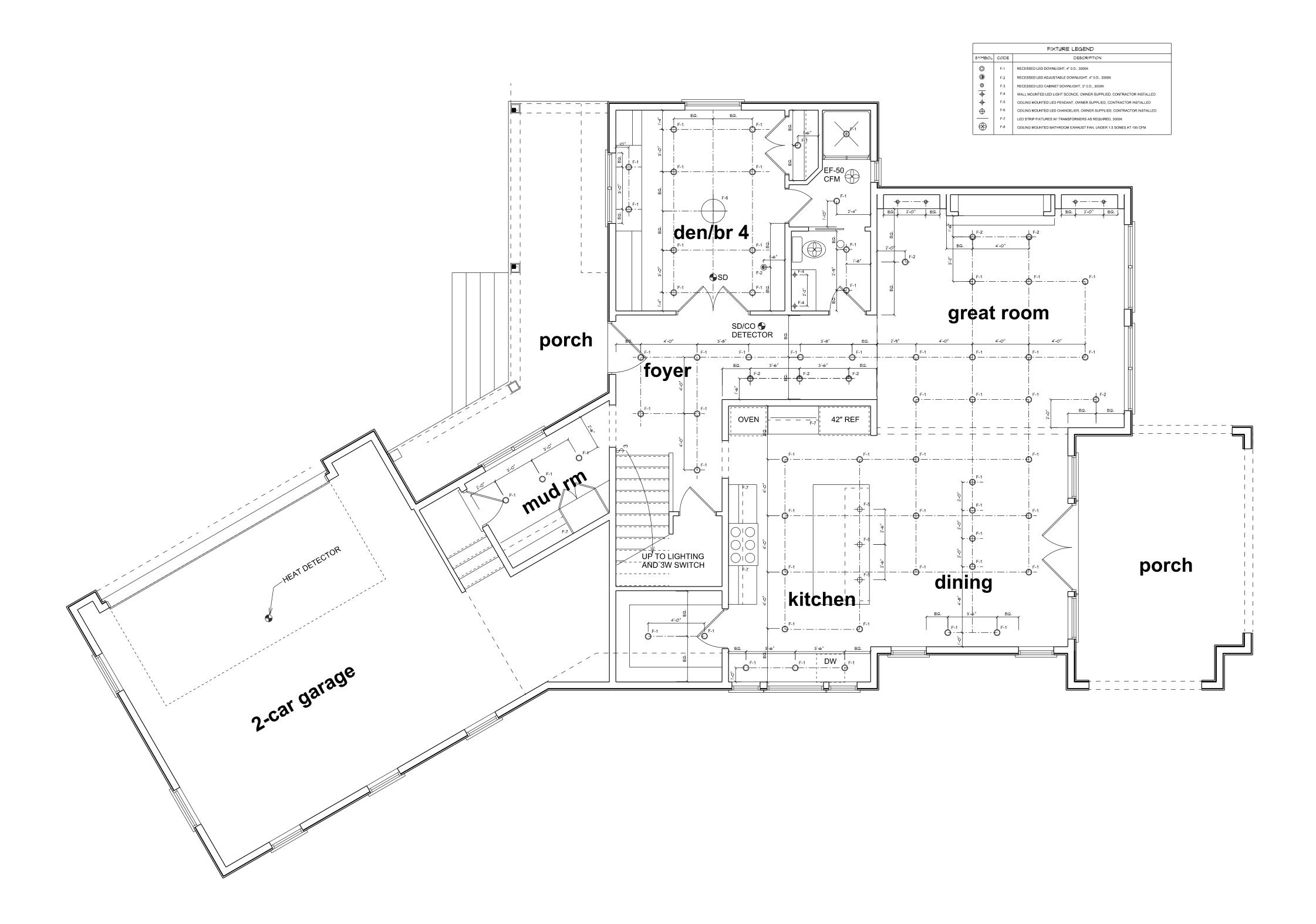
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PLAN FINE HOME 1501 Dayton Court N Renton, Washington

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MAIN LEVEL REFLECTED CEILING PLAN

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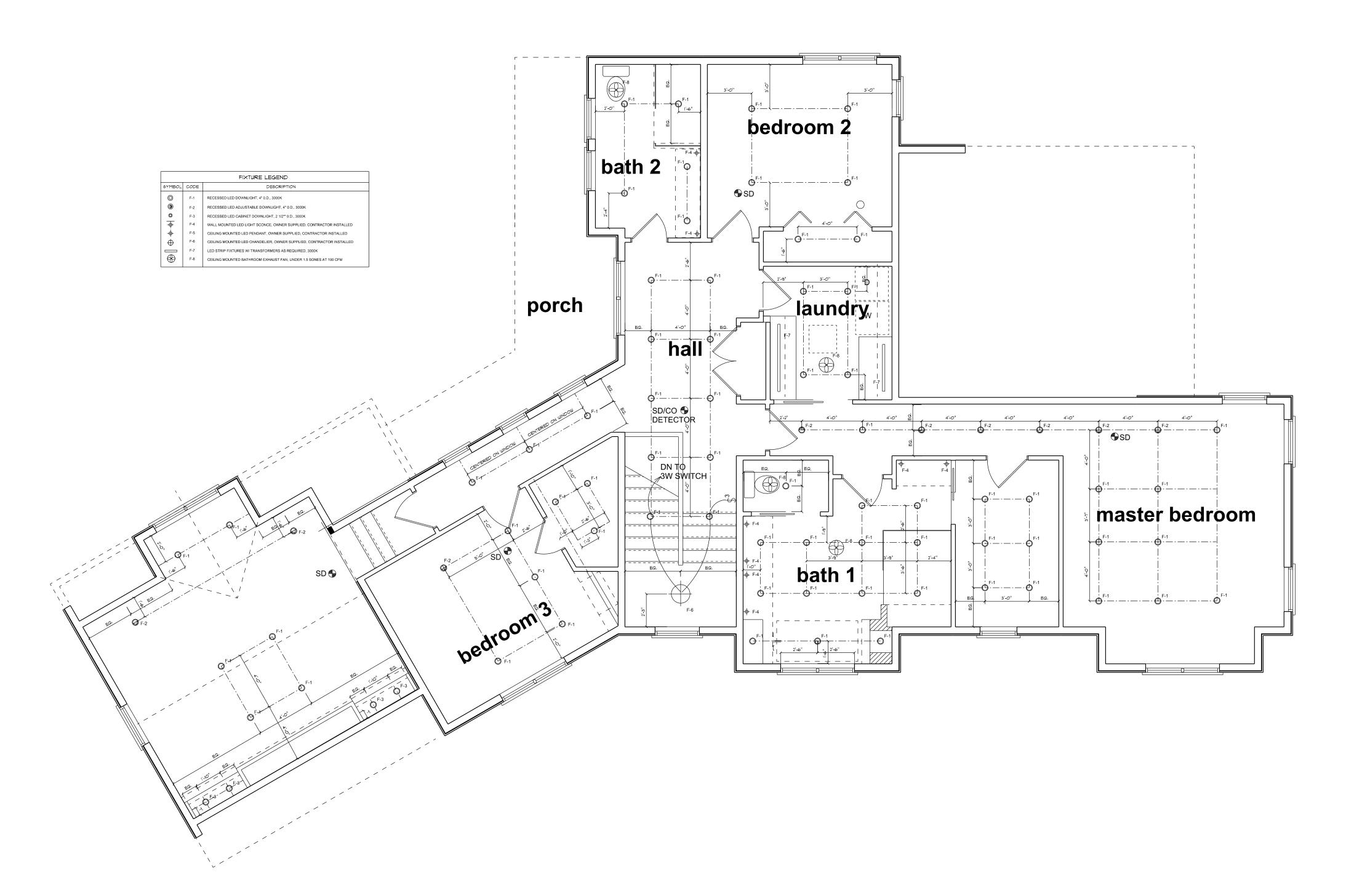
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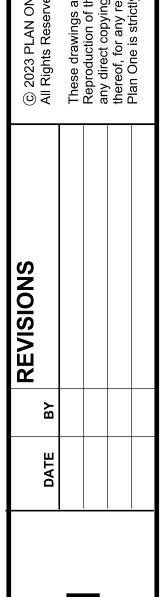
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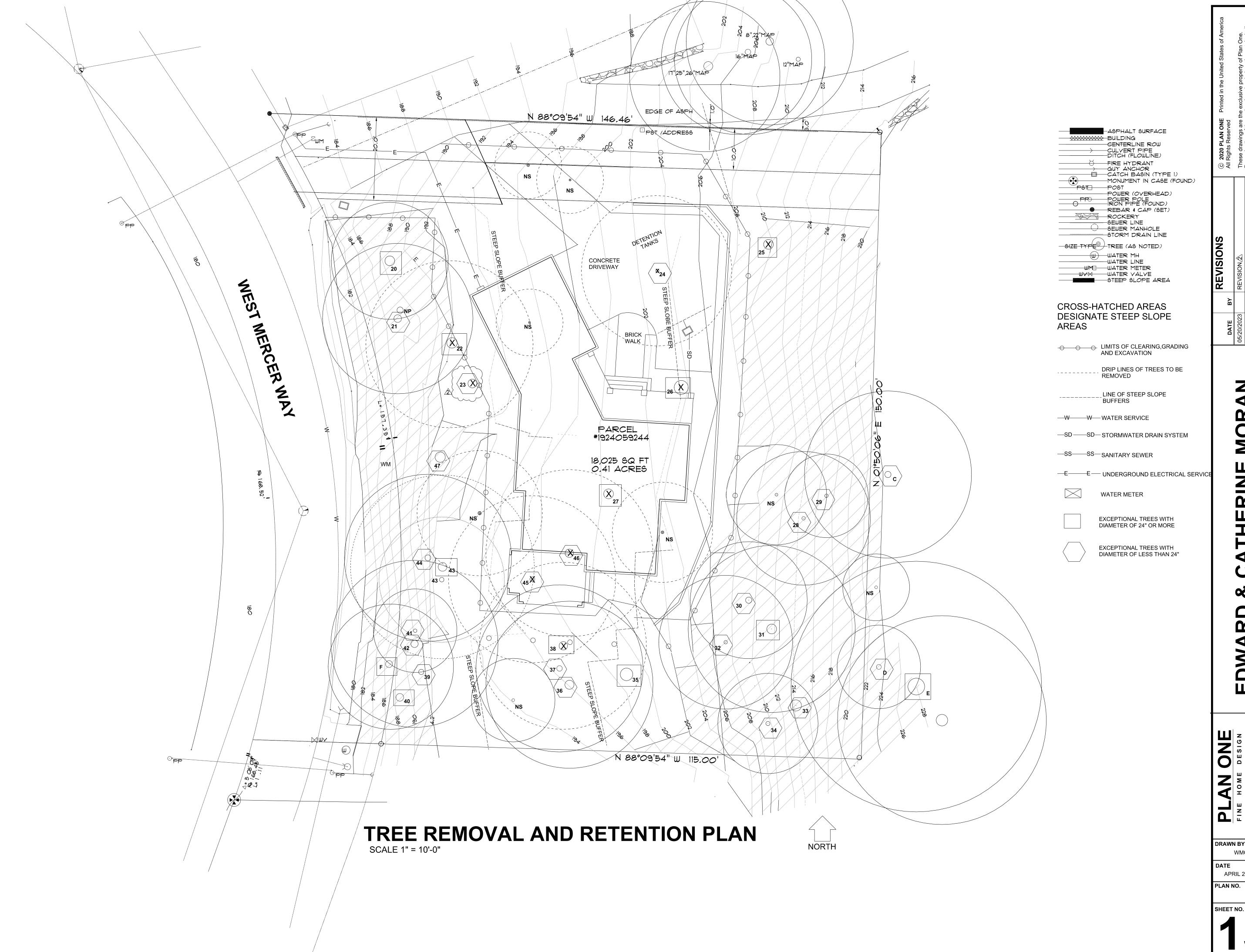
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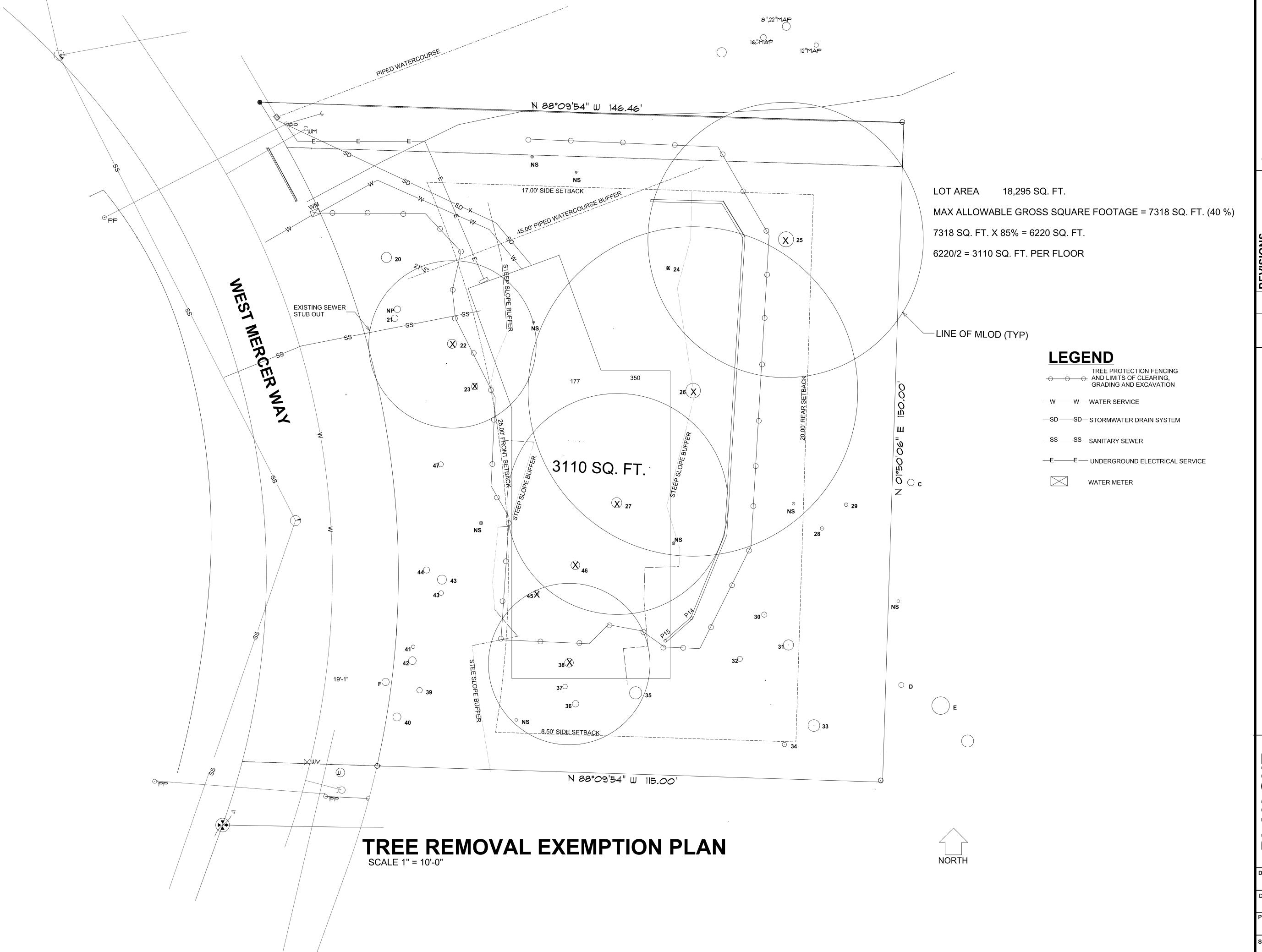
PLAN NO.

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EDWARD WEST MERCEI

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BY
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DRAWN BY WMG

DATE
APRIL 25, 2022

STRUCTURAL NOTES

1. CODE: IRC, 2018 EDITION. 2. LOADS: ROOF L.L.: 25 PSF (SNOW)

FLOOR L.L.: 40 PSF

DECK L.L.: 60 PSF SEISMIC: SITE CLASS = D $S_S = 1.439g$ $S_1 = 0.552q$ $S_{DS} = 0.599g$

 $S_{D1} = 0.552g$ R = 6.5 (WOOD SHEAR WALL)

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.

3. CONCRETE: F'c = 2,500 PSIF'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 (fy=40,000 PSI) AND GRADE 60 (fy=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 = $1 \frac{1}{2}$ " EARTH FACE = 2" INTERIOR FACE = 3/4" FOOTINGS CAST AGAINST EARTH = 3"

- 5. METALS: ALL MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A-36 (fy=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.
- 6. CARPENTRY: ALL NAILS TO BE COMMON NAILS. LUMBER GRADES: 4X BEAMS = D.F. #16X BEAMS = D.F. #1POSTS = D.F. #1

BLOCKING = D.F. #22X STUDS = D.F. #2LEDGERS = 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.

7. 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 (fb=2400 PSI, fv=165 PSI) AT SIMPLE SPAN BEAM AND STRESS GRADE COMBINATION 24F-V8 (fb=2400 psi, fv=165 psi) AT CANTILEVERED BEAMS. PROVIDE TOP TENSION LAMS AT CANTILEVERS.

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 PSFTOTAL LOAD DEFLECTION = L/240LIVE LOAD DEFLECTION = L/360

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

- 10. 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.
- 11. 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.

12. 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.

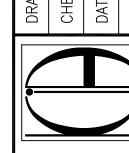
NAILING SCHEDULE TABLE 2304.9.1

2 BRIDGING TO A WIDER THAT SOLE PLATE SOLE PLATE TOP PLATE STUD TO SECURITY TO	SILL OR GIRDER: TOENAIL TO JOIST: TOENAIL EACH END 25mm X 152mm) SUBFLOOR OR LESS TO EACH JOIST: FACE NAIL AN 1" X 6" (25mm X 152mm) SUBFLOOR TO EACH JOIST: FACE NAIL AN 1" X 6" (25mm X 152mm) SUBFLOOR TO EACH JOIST: FACE NAIL SUBFLOOR TO JOIST OR GIRDER: BLIND AND FACE NAIL TE TO JOIST OR BLOCKING: TYPICAL FACE NAIL TE TO JOIST OR BLOCKING: AT BRACED WALL PANELS TO STUD: END NAIL SOLE PLATE: TOENAIL TUDS: FACE NAIL OP PLATES: TYPICAL FACE NAIL OP PLATES: LAP SPLICE BETWEEN JOISTS OR RAFTERS TO TOP PLATE: TOENAIL TO TOP PLATE: TOENAIL SS, LAPS AND INTERSECTIONS: FACE NAIL JS HEADER, TWO PIECES	3 - 8d COMMON (2-1/2" X 0.131"), 2 - 8d COMMON (2-1/2" X 0.131"), 16d (3-1/2" X 0.131") AT 16" O.C., 3 - 16d (3-1/2" X 0.131") AT 16" O.C., 2 - 16d COMMON (3-1/2" X 0.162"), 4 - 8d COMMON (2-1/2" X 0.131"), 2 - 20d COMMON (3-1/2" X 0.162"), 16d (3-1/2" X 0.131") AT 16" O.C., 16d (3-1/2" X 0.135") AT 16" O.C., 8 - 16d COMMON (3-1/2" X 0.135"), 3 - 8d COMMON (2-1/2" X 0.131"), 8d (2-1/2" X 0.131") AT 6" O.C.,	3 - 3" X 0.131" NAILS 2 - 3" X 0.131" NAILS 2 - 8d COMMON (2-1/2" X 0.131") 3 - 8d COMMON (2-1/2" X 0.131") 2 - 16d COMMON (3-1/2" X 0.162') 3" X 0.131" NAILS AT 8" 0.C. 4 - 3" X 0.131" NAILS AT 16" 0.C. 3 - 3" X 0.131" NAILS AT 12" 0.C.
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11 BLOCKING 12 RIM JOIST 13 TOP PLATE 14 CONTINUOU 15 CEILING JO 16 CONTINUOU	BETWEEN JOISTS OR RAFTERS TO TOP PLATE: TOENAIL TO TOP PLATE: TOENAIL ES, LAPS AND INTERSECTIONS: FACE NAIL	3 - 8d COMMON (2-1/2" X 0.131"),	
12 RIM JOIST 13 TOP PLATE 14 CONTINUOU 15 CEILING JO 16 CONTINUOU	TO TOP PLATE: TOENAIL ES, LAPS AND INTERSECTIONS: FACE NAIL		3 - 3" X 0.131" NAILS
13 TOP PLATE 14 CONTINUOU 15 CEILING JO 16 CONTINUOU	ES, LAPS AND INTERSECTIONS: FACE NAIL	8d (2-1/2" X 0.131") AT 6" O.C.,	
14 CONTINUOU 15 CEILING JO 16 CONTINUOU			3" X 0.131" NAILS AT 6" O.C.
15 CEILING JO 16 CONTINUOL	JS HEADER, TWO PIECES	$2 - 16d COMMON (3-1/2" \times 0.162"),$	3 - 3" X 0.131" NAILS
16 CONTINUOL		16d COMMON (3-1/2" X 0.162") AT 16" O.C.	ALONG EDGE
	DISTS TO PLATE: TOENAIL	3 - 8d COMMON (2-1/2" X 0.131),	5 - 3" X 0.131 NAILS
4.7 CEILING 10	JS HEADER TO STUD: TOENAIL	4 - 8d COMMON (2-1/2" X 0.131")	
1/ CEILING JO	DISTS, LAPS OVER PARTITIONS: FACE NAIL	3 - 16d (3-1/2" X 0.162") MIN., TABLE 2308	.10.4.1
(SEE SECT	TION 2308.10.4.1, TABLE 2308.10.4.1)	4 - 3" X 0.131" NAILS, 4 - 3" 14 GAGE STAI	PLES
18 CEILING JO	DISTS TO PARALLEL RAFTER: FACE NAIL	3 - 16d (3-1/2" X 0.162") MIN., TABLE 2308	3.10.4.1
(SEE SECT	TION 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 SECT	TION 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" S	SHEATHING OR LESS TO EACH BEARING: FACE NAIL	2 - 8d COMMON (2-1/2" X 0.131")	
22 WIDER THA	AN 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	S	2 -16d COMMON (3-1/2" X 0.162") AT EACH	BEARING
26 COLLAR TIE	E TO RAFTER: FACE NAIL	3 - 10d COMMON (3" X 0.148"),	4 - 3" X 0.131" NAILS
27 JACK RAFT	FER TO HIP: TOENAIL	3 - 10d COMMON (3" X 0.148"),	4 - 3" X 0.131" NAILS
JACK RAFT	FER TO HIP: FACE NAIL	2 - 16d COMMON (3-1/2" X 0.162"),	3 - 3" X 0.131" NAILS
28 ROOF RAFT	TER TO 2-BY RIDGE BEAM: TOENAIL	3 - 16d COMMON (3" X 0.162"),	3 - 3" X 0.131" NAILS
ROOF RAFT	TER 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 E	BAND JOIST: FACE NAIL	3 - 16d COMMON (3-1/2" X 0.162"),	4 - 3" X 0.131" NAILS
30 LEDGER ST	TRIP: 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.
- NIALS 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" \times 0.113; 8d 2-1/2" \times 0.131; 10d 3" \times 0.148")
- e. | DEFORMED SHANK (6d 2" X 0.113; 8d 2-1/2" X 0.131; 10d 3" X 0.148")
- | 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
- 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
- [.] 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
- I. 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.

I. 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





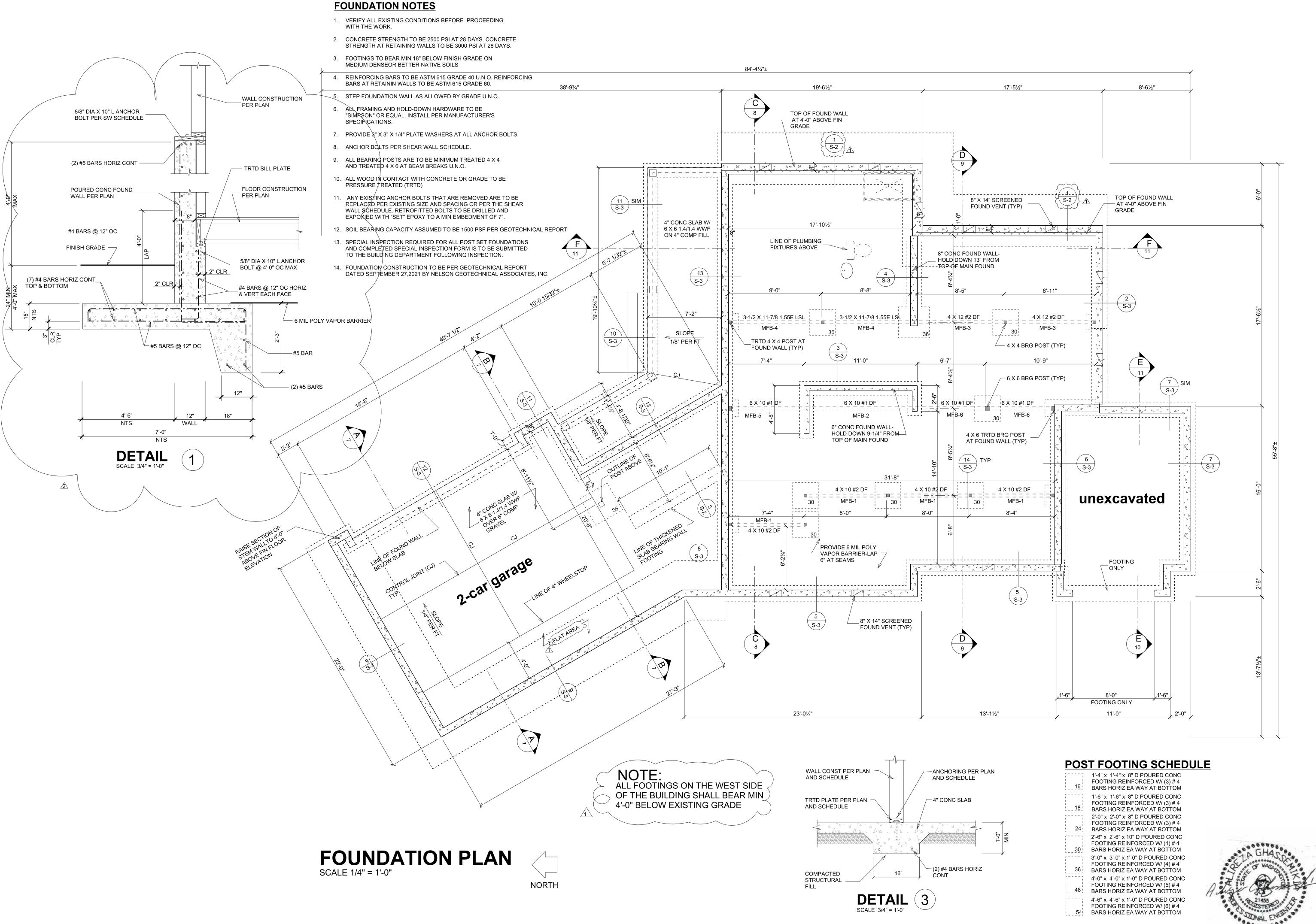
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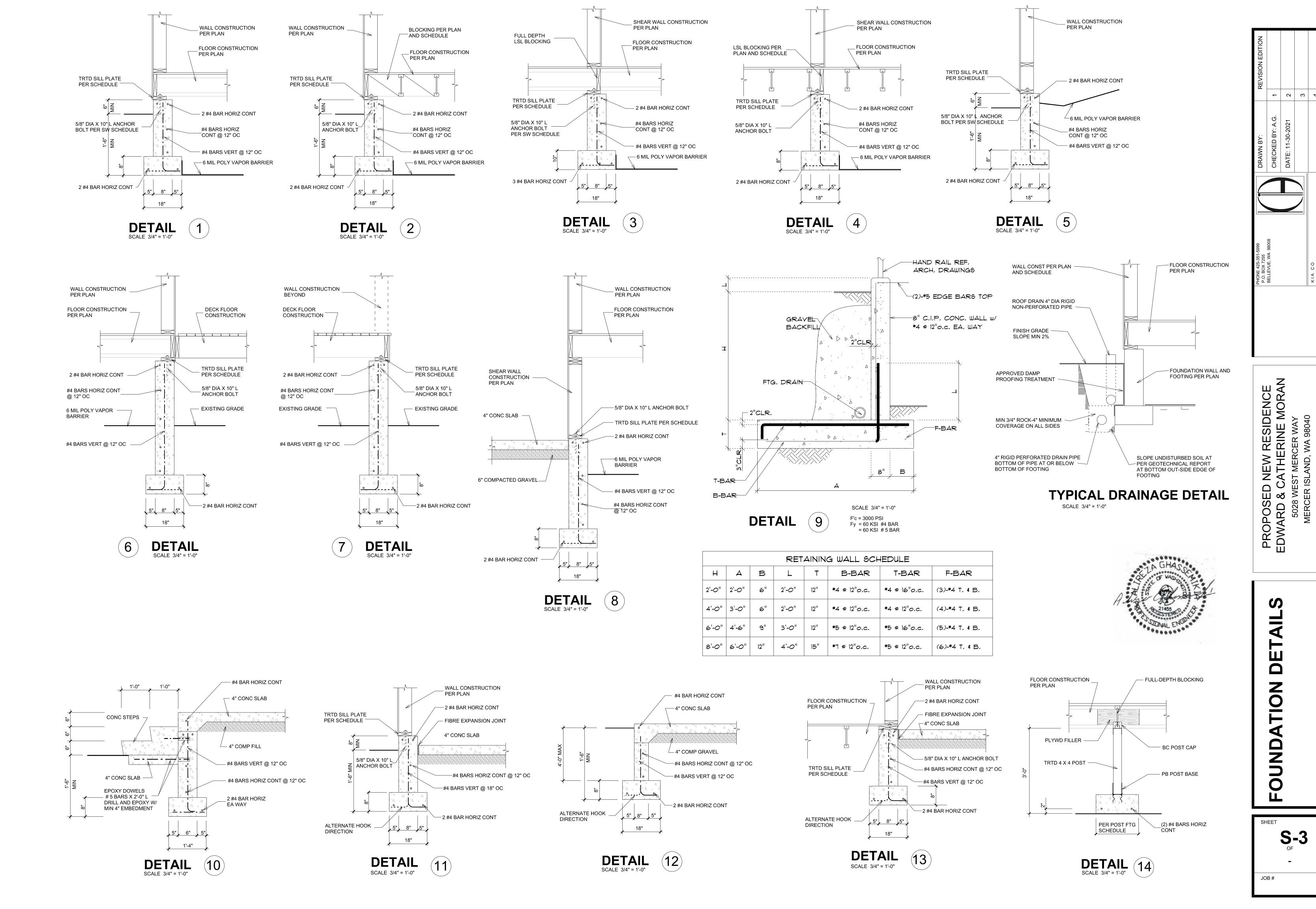


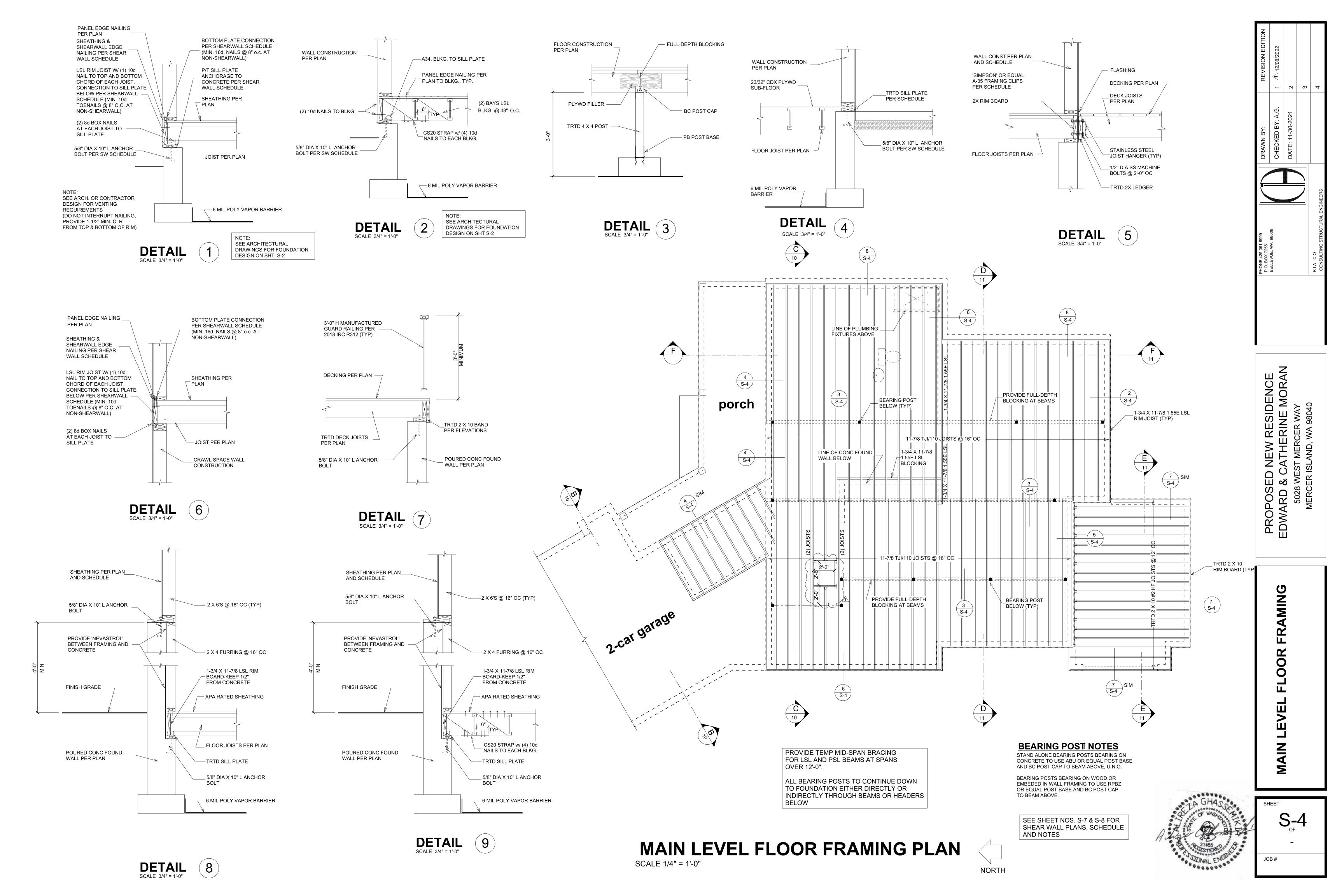
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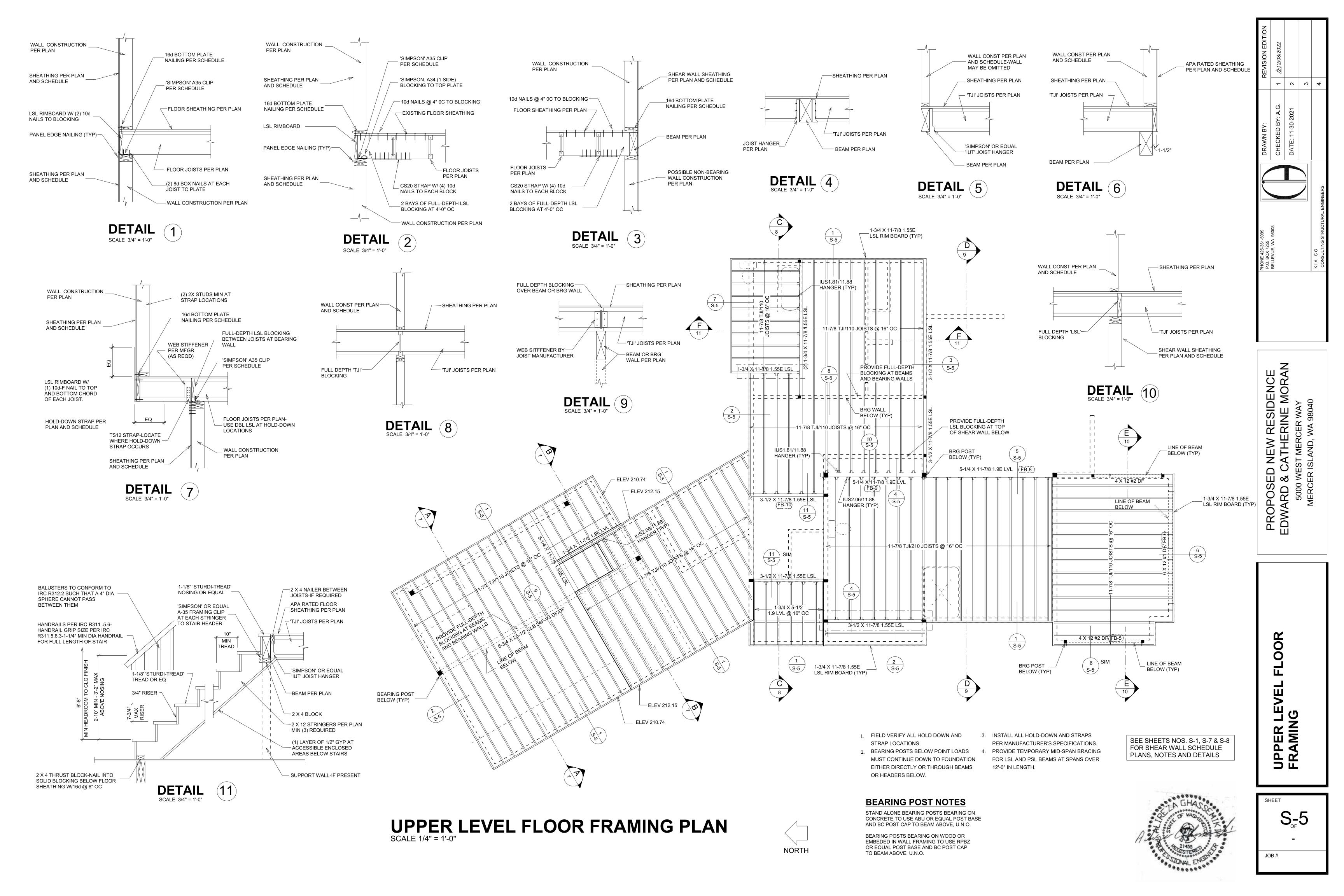
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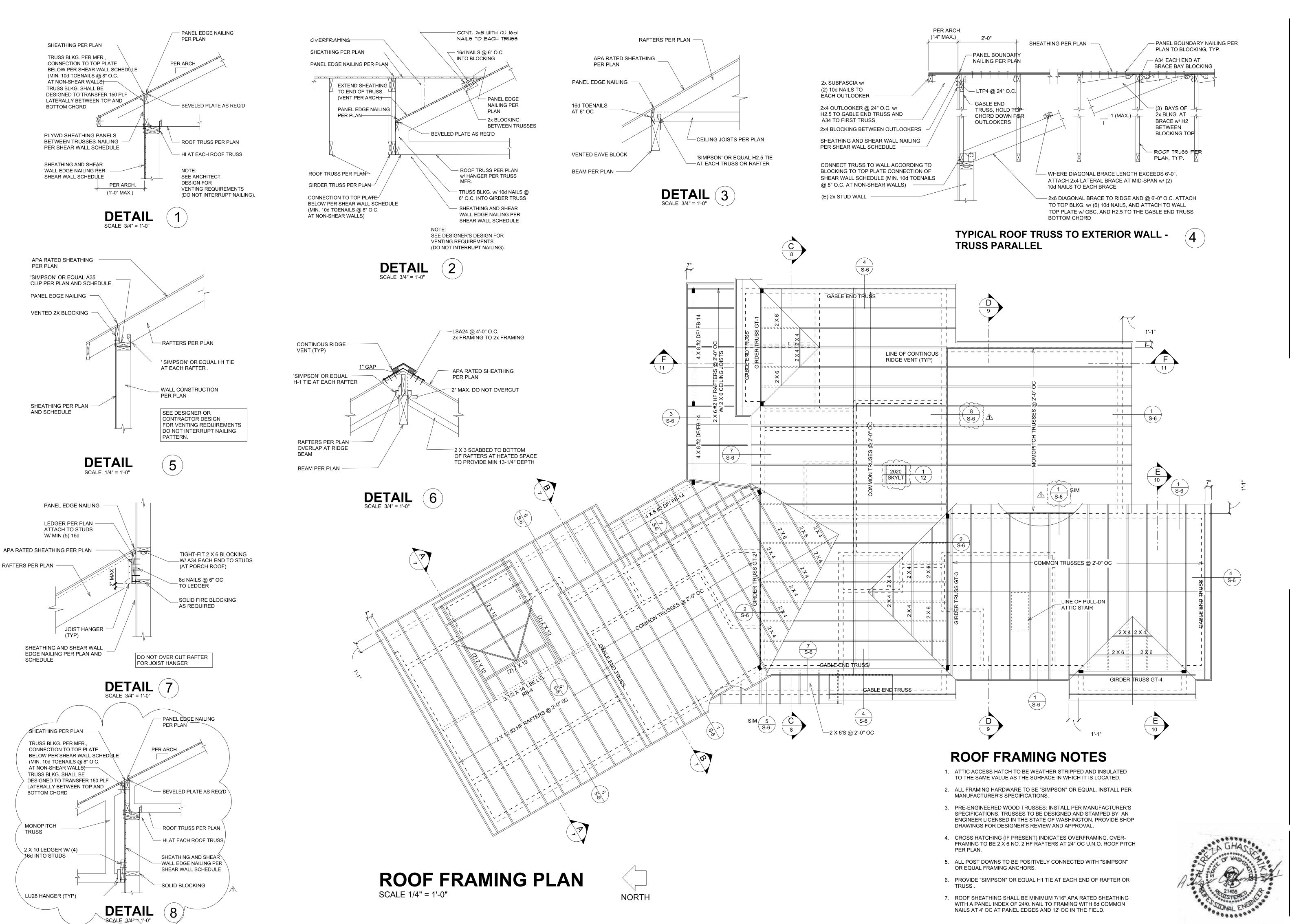
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MARK	SHEATHING	ATHING BLOCKING	NOMINAL THICKNESS OF SINGLE		NAIL SIZE NAIL SPA		CONNECTION OF JOISTS TO	NOMINAL THICKNESS OF SINGLE	BOTTOM PLAT	SHEAR CAPACITY	
			BLOCKING, SILL PLATE		EDGE	FIELD	BLOCKING TO TOP PLATES	BLOCKING, RIM JOIST	WOOD	CONCRETE	(LB/FT)
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

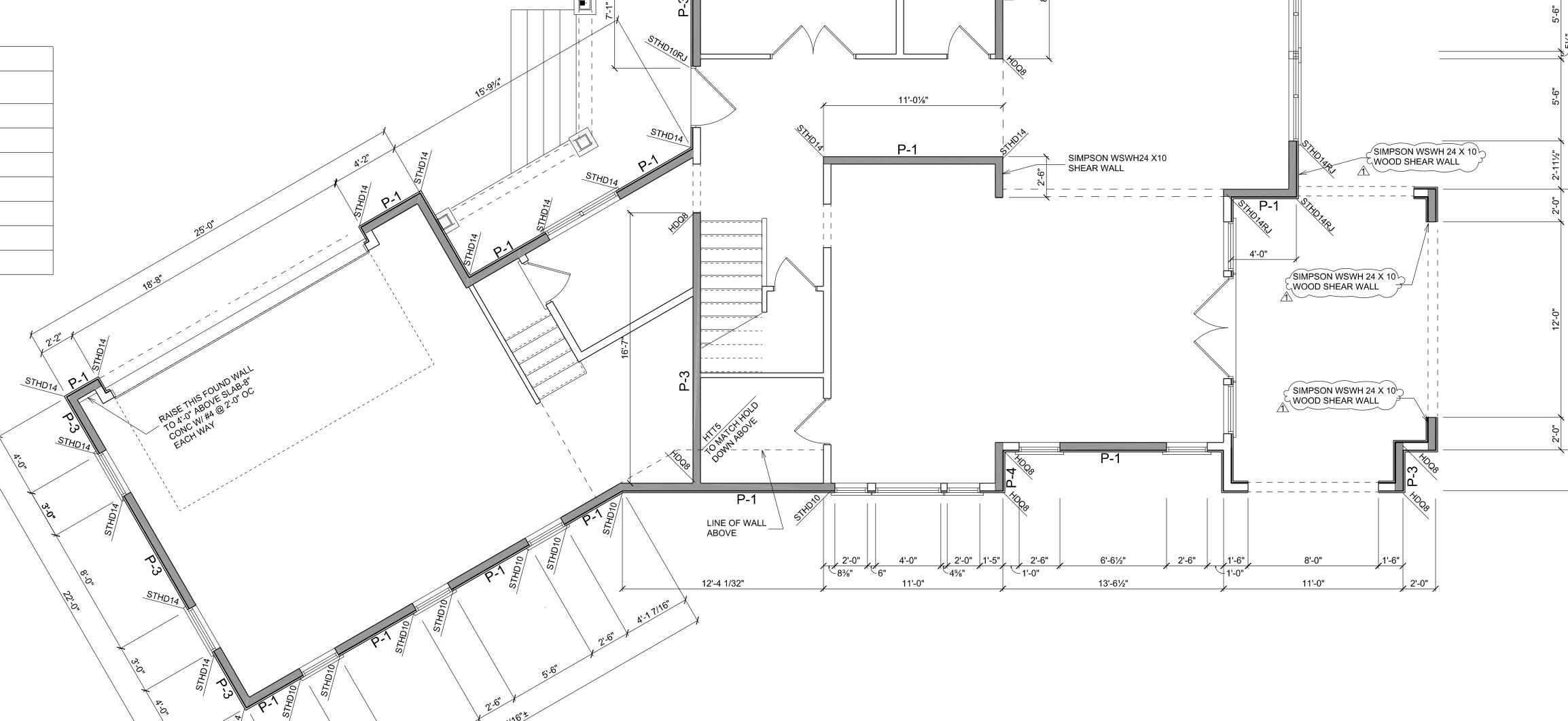
SHEAR WALL & HOLD-DOWN NOTES (U.N.O.)

- APA RATED SHEATHING SHALL BE EXP1/EXP2/EXT OR C-C/C-D/STRUCT II, SPAN RATING 24/0.
 PLYWOOD AT SHEAR WALLS MAY BE LAID WITH FACE GRAIN PARALLEL OR PERPENDICULAR TO WALL STUDS.
- FLTWOOD AT SHEAR WALLS MAT BE LAID WITH FACE GRAIN FARALLEL OR FERFENDICULAR TO WALL STODS.
 FASTENERS SHALL BE DRIVEN FLUSH WITH SURFACE OF SHEATHING AND HAVE MINIMUM 3/8" EDGE DISTANCE.
 PROVIDE PLYWOOD EDGE NAILING TO ALL POSTS INSIDE SHEAR WALLS.
 NAIL END STUDS ALL OF ALL SHEAR WALLS TO TRANVERSE BEARING WALLS WITH 16d NAILS AT 4" OC (MIN).
 OFFSET PANEL JOINTS ON EACH SIDE OF WALL MINIMUM ONE STUD BAY AT SHEAR WALL PB.
 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 SIMPSON SB 1" X 30" BOLT						
STHD10/10RJ	(2) 2X	(28) 10d X 3-1/4"						
STHD14/14RJ	(2) 2X	(30) 10d X 3-1/4"						



19'-0"

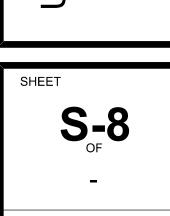
45'-61/2"

18'-0"

8'-61/2"

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







21'-0 1/32"

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

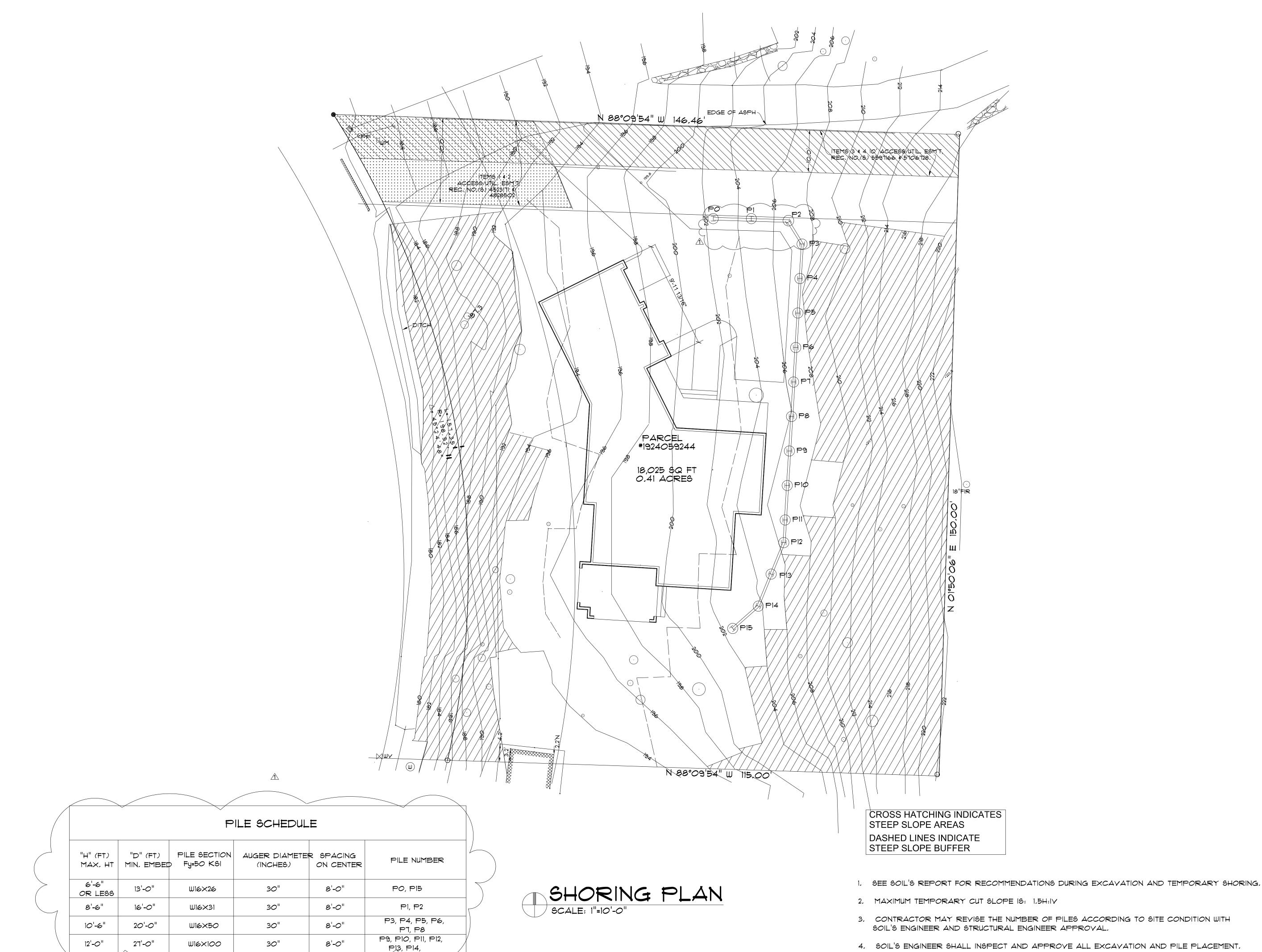


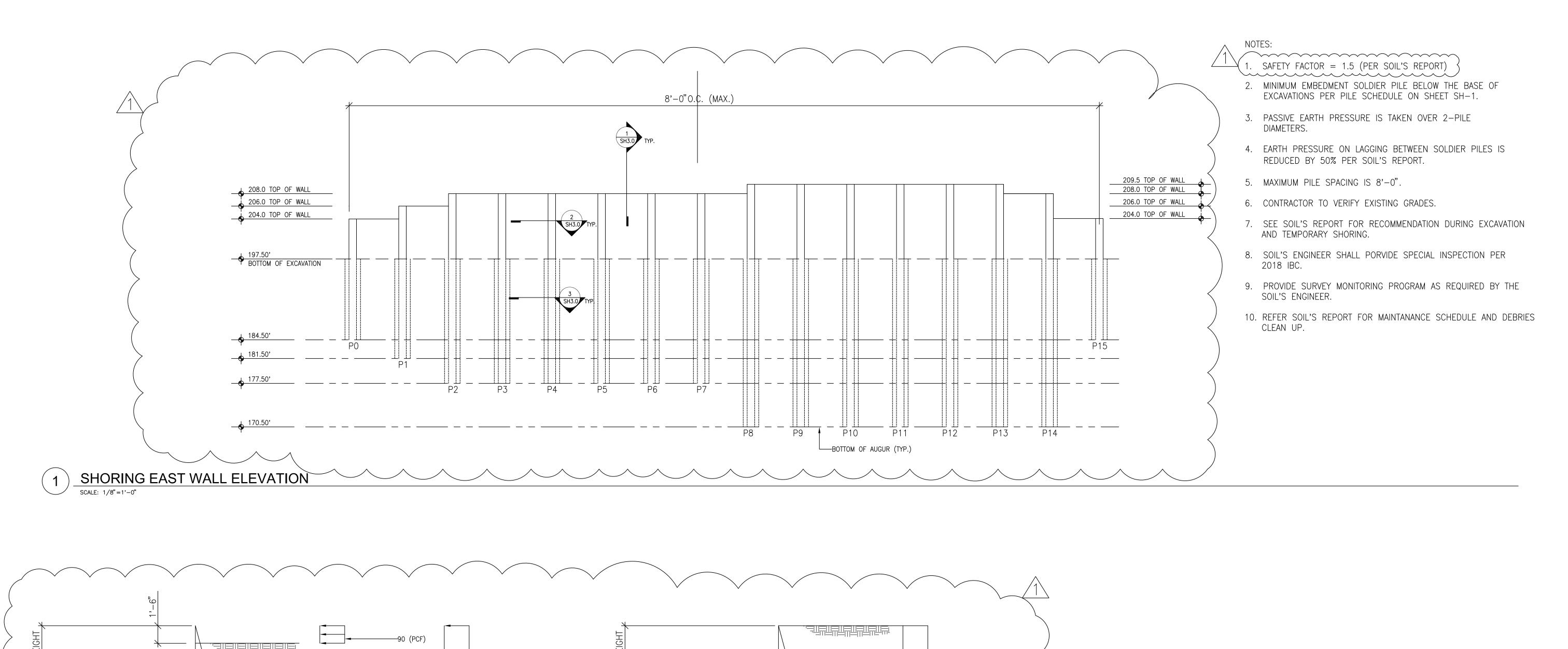
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PROVIDE SPECIAL INSPECTION BY GEOTECH PER 2018 IBC.





		N N					
BOTTOM OF EXCAVATION BOTTOM OF EXCAVATION	8(H) PSF SEISMIC LOADING "H" "H" "H"	BOTTOM OF EXCAVATION—	40 (PCF) +	PSF MIC LOADING			
ALLOWABLE PASSIVE PRESSURE=200 PCF (SEE NOTE 3)		ALLOWABLE PASSIVE PRESSURE=200 PCF (SEE NOTE 3)			"H" (FT) MAX. HT	"D" (FT) MIN. EMBED	PILE SECT Fy=50 K
	Z	<u> </u>			6'-6" OR LESS	13'-0"	W16X26
		-	40(D) PSF OVER		8′-6″	16'-0"	W16X3
40(D) PSF OVER PILE DIAMETER			40(D) PSF OVER PILE DIAMETER		10'-6"	20'-0"	W16X5
40(H) PSF OVER PILE DIAMETER			40(H) PSF OVER PILE DIAMETER		12'-0"	27′-0″	W16X10
PASSIVE PRESSURE ACTIVE PRESSURE		PASSIVE PRESSURE -	ACTIVE PRESSURE				

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" DR 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					

SOIL PRESSURE DIAGRAM (P1 THRU P8 & P16)

2 SOIL PRESSURE DIAGRAM (P9 THRU P15)

SHEET
SH-2
OF
3

171-2101

JOB #

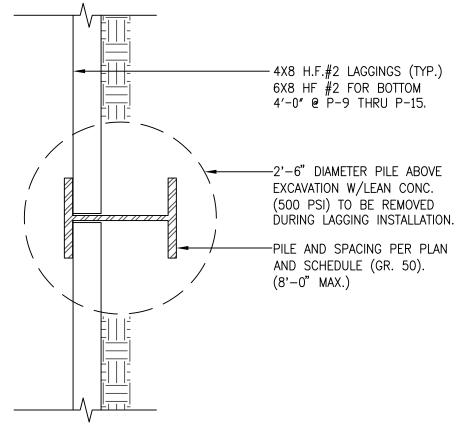
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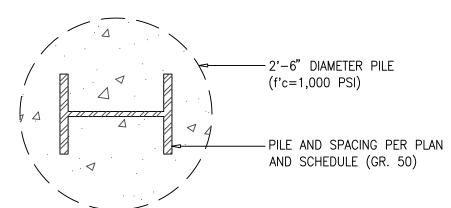
PROPOSED SINGLE EDWARD & CA

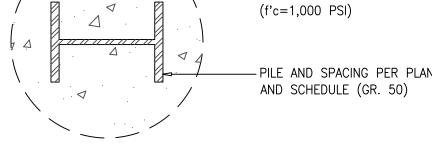
NOTES

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ELEVATIONS







GENERAL SHORING NOTES

- 1. CODE REQUIREMENTS: ALL DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2015 EDITION.
- 2. REFERENCE DOCUMENTS: GEOTECHNICAL PROJECT NO. JN16346 BY GEOTECH CONSULTANTS, INC. DATED SEPTEMBER 19, 2016 AND SUPPLEMENTAL LETTER. TOPOGRAPHY AND BOUNDARY SURVEY AS PROVIDED BY THE OWNER.
- 3. DESIGN LOADS: IN ADDITION TO THE DEAD LOADS, THE SOIL PRESSURES SHOWN ON SHEET SH2.0 WERE USED FOR THE DESIGN.
- 4. SUBMITTALS: SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER PRIOR TO FABRICATION OR CONSTRUCTION FOR CONC. MIX. DESIGN, STRUCTURAL STEEL, AND MISCELLANEOUS METAL. PROPOSED DEMOLITION AND SHORING SEQUENCE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- 5. INSPECTION: INSPECTION BY A QUALIFIED SOILS ENGINEER AND APPROVED TESTING LAB WILL BE PROVIDED BY OWNER FOR PILE PLACEMENT. SOIL'S ENGINEER SHALL INSPECT PILE PLACEMENT AND PREPARED SOIL BEARING SURFACES PRIOR TO INSTALLATION OF PILES. SUBMIT DAILY REPORTS TO THE CITY OF BELLEVUE, SOIL'S ENGINEER, AND STRUCTURAL ENGINEER.
- SPECIAL CONDITION: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITION IN THE FIELD AND SHALL NOTIFY THE STRUCTURAL ENGINEER OF ALL FIELD CHANGES PRIOR TO FABRICATION AND INSTALLATION.
- 7. UTILITY LOCATION: THE CONTRACTOR SHALL UTILIZE THE SERVICES OF THE "UTILITY LOCATOR SERVICE" (1-800-424-5555) TO VERIFY THE EXTENT AND LOCATIONS OF SITE UTILITIES. SOLDIER PILES WHICH INTERFERE WITH UTILITIES SHALL BE RELOCATED. NEW PILE LOCATIONS SHALL BE APPROVED BY STRUCTURAL ENGINEER.
- CONCRETE: CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE 2015 INTERNATIONAL BUILDING CODE.

fc' (PSI)	MIN. CEMENT PER CUBIC YARD	USE
1000	1 1/2 SACKS	PILE STRUCTURAL GROUT

AS AN ALTERNATE TO THE ABOVE, THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS TO THE STRUCTURAL ENGINEER FOR REVIEW TWO WEEKS PRIOR TO PLACING CONCRETE.

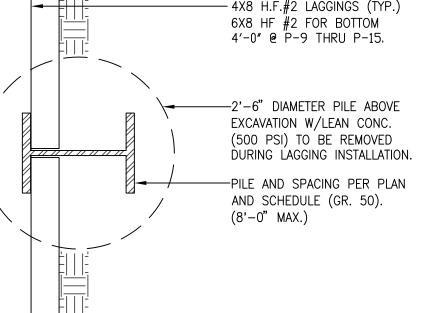
A. SPECIFICATIONS: AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS. B. WELDING: AWS D1.1, LATEST EDITION. AWS PREQUALIFIED JOINT DETAILS.

9. STEEL: DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

- C. WELDER CERTIFICATION: WASHINGTON ASSOCIATION OF BUILDING OFFICIALS (WABO)
- D. WIDE FLANGE: ASTM A 992 (Fy=50,000 PSI)
- E. WELDING ELECTRODES: E70XX
- 10. TIMBER LAGGGING: LAGGING SHALL CONFORM TO "GRADING RULES," WEST COAST LUMBER INSPECTION BUREAU (WCLIB), LATEST EDITION. LAGGING SHALL BE DOUGLAS FIR-LARCH NO.1 ROUGH CUT; Fb = 1000 PSI. LAGGING SHALL BE PRESSURE-TREATED WITH WATERBORNE PRESERVATIVES. FIELD CUTS WHICH EXPOSE UNTREATED WOOD ARE TO BE FIELD TREATED IN ACCORDANCE WITH AWPA STANDARDS.
- 11. SOILS: SEE REPORT OF GEOTECHNICAL INVESTIGATION FOR MORE COMPLETE INFORMATION, INCLUDING RECOMMENDATIONS FOR SHORING IN GENERAL, SHORING, MONITORING, EXCAVATION, DRAINAGE AND SITE
- 12. FINAL TOP OF PILE: TOP OF PILES SHALL BE CUT OFF A MINIMUM OF ONE FOOT BELOW TOP OF
- 13. REFER GEOTECHNICAL REPORT DATED9-27-21, MEMORANDUM DATED 8-6-21 AND LETTER DATED 12-17-21 FOR ADDITIONAL INFORMATION.

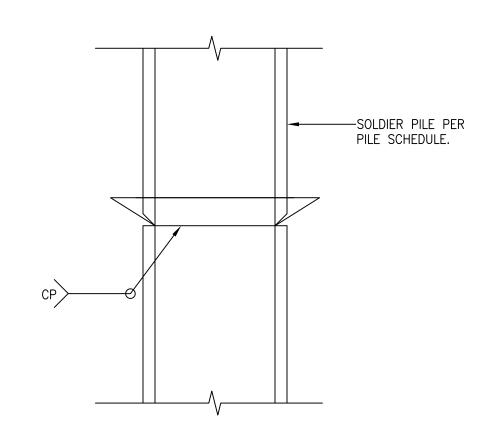
SHORING PROCEDURE

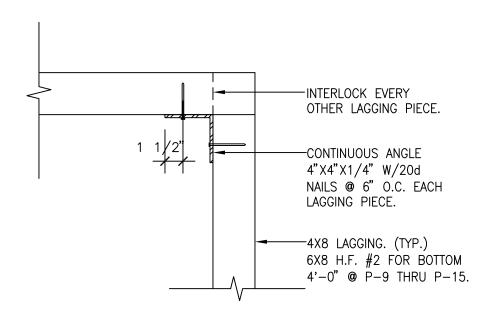
- 1. HOLE DIGGING: PILE HOLES SHALL BE DRILLED WITHOUT LOSS OF GROUND AND WITHOUT ENDANGERING PREVIOUSLY INSTALLED PILES. THIS MAY INVOLVE CASING THE HOLES OR OTHER METHODS OF PROTECTION FROM CAVING. SEE GEOTECHNICAL REPORT AND SURVEY FOR POSSIBLE OBSTRUCTIONS AND RECOMMENDATIONS.
- 2. LAGGING: TIMBER LAGGING SHALL BE INSTALLED AT ALL SHORING WALLS. VOIDS BETWEEN LAGGING AND SOIL SHALL BE BACK FILLED PER SOIL'S REPORT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LIMIT THE OF EXPOSED SOIL TO 4 FT. OR LESS, ALSO SEE SOIL'S REPORT RECOMMENDATIONS.
- 3. DRAINAGE: INSTALL DRAINAGE TO THE FACE OF THE TIMBER LAGGING FOR TEMPORARY AND PERMANENT SOLDIER PILE WALLS ACCORDING TO RECOMMENDATIONS OF THE 2015 I.B.C. AND AS SPECIFIED IN THE SOIL'S REPORT.
- 4. MONITORING: MONITORING OF THE SHORING SYSTEM, CONDUCTED BY THE GENERAL CONTRACTOR, MUST INCLUDE MEASUREMENTS OF VERTICAL AND HORIZONTAL MOVEMENTS AT THE TOP AND BOTTOM OF EACH SOLDIER PILE ON DAILY BASIS DURING THE EXCAVATION AND WEEKLY BASIS UNTIL WALL CONSTRUCTION IS COMPLETE. ADDITIONAL MONITORING POINTS MAY BE AT THE DIRECTION OF THE SOIL'S ENGINEER AND THE BUILDING DEPARTMENT. ALL READINGS SHOULD BE PROVIDED TO KIA CO., A.D. SHAPIRO ARCHITECTS, P.S., AGES ENGINEERING, LLC. AND BUILDING DEPARTMENT. ALSO, SEE SOIL'S REPORT FOR MONITORING INSTRUCTIONS AND RECOMMENDATIONS.



PILE SECTION DETAIL

PILE SECTION DETAIL SCALE: 1"=1'-0"



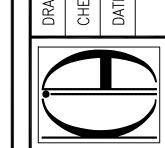


SOLDIER PILE SPLICE DETAIL SCALE: 1 1/2" = 1' - 0"



		P]	ILE SCHEDULE		
"H" (FT) MAX. HT	"D" (FT) MIN. EMBED	PILE SECTION Fy=50 KSI	AUGER DIAMETER (INCHES)	SPACING ON CENTER	PILE NUMBER
6'-6 " DR 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

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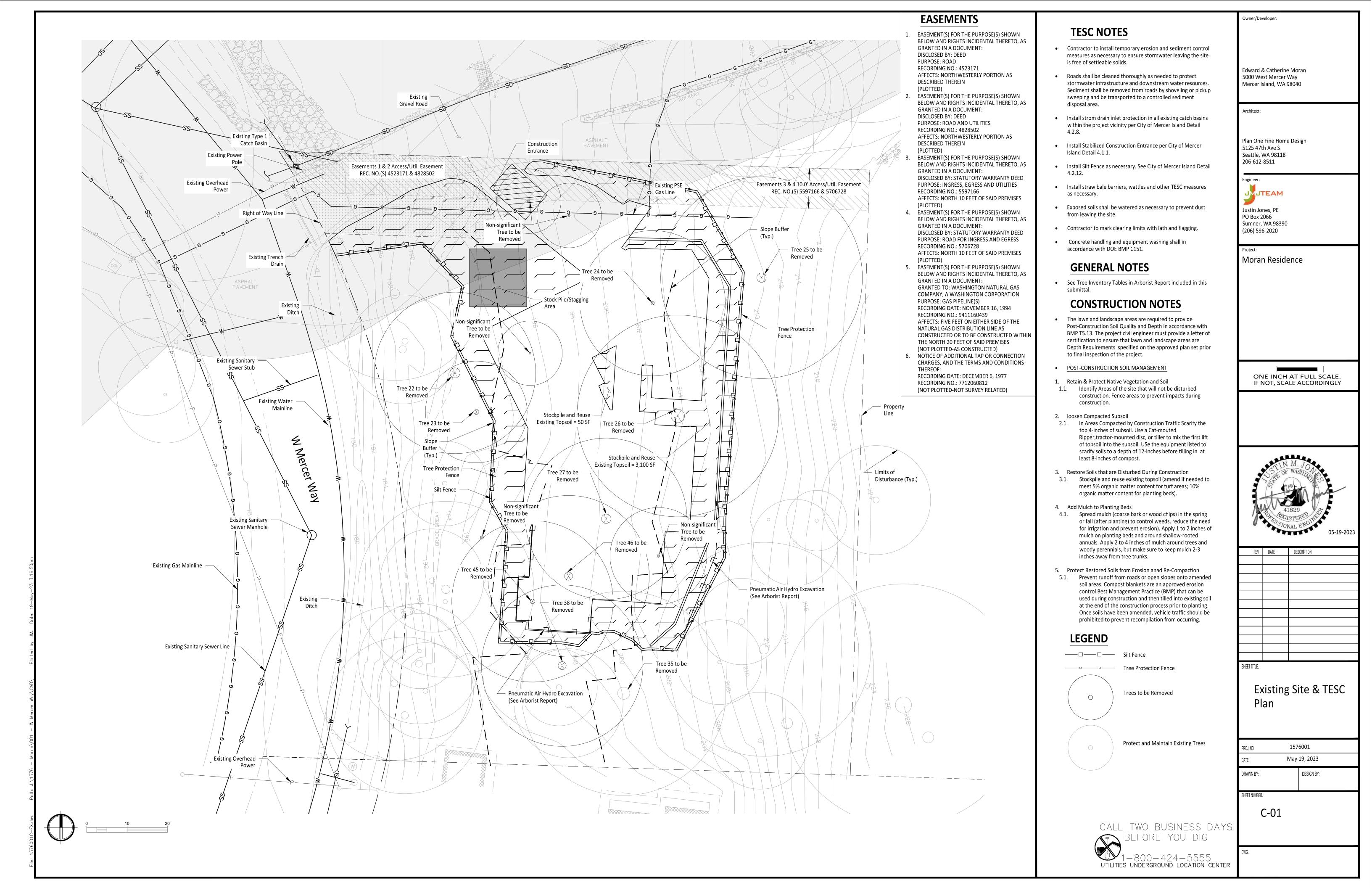


RESIDE! MORAN FAMILY FERINE ERCER WA 98 WE T CAT CAT WEST ' SING! ED AR POSI EDW/ 8

PLAN

SH-3

JOB # 171-2101





LEGEND

4 ^Δ	Proposed Concrete
· · · · · · · · · · · · · · · · · · ·	Duamasa d Camanata

Proposed Concrete with Raked
Surface

Surface

Proposed Permeable Pavers

Landscaping/Native Vegetation

GENERAL NOTES

- See Detail on Sheet C-05 for Standard Concrete Section.
- See Detial on Sheet C-05 for Permeable Paver Section.
- Driveway Slopes over 20.0% add a Raked Surface Finish to increase Traction.

LOT COVERAGE

Pro	Proposed Lot Coverage			
Impervious Areas (SF) Pervious Areas (S				
Proposed House	2,664			
Proposed Driveway	1,312			
Proposed Retaining Walls	63			
Permeable Pavers		116		
Landscaping/Vegetaion		13,722		
Totals	4,039	13,838		
Lot Size	18,295			
Max Allowed Impervious				
Coverage	35% (6,403 SF)			
Impervious Lot Coverage	22%			

Lot Coverage Calculations		
A. Gross Lot Area	18,295	Square Fee
B. Net Lot Area	16,865	Square Fee
C. Allowed Lot Coverage Area	5,060	Square Fee
D. Allowed Lot Coverage	35	% of Lot
E. Existing Lot Coverage:		
1. Main Structure Roof Area	0	Square Feet
2. Accessory Building Roof Area	0	Square Fee
3. Vehicular Use (driveway, paved access easements		
[portion used by the lot for access], parking)	0	Square Fee
4. Covered Patios and Covered Decks	0	Square Fee
5. Total Existing Lot Coverage Area (E1 + E2 + E3 + E4)	0	Square Fee
F. (Total Lot Coverage Area Removed)	0	Square Fee
G. Proposed Adjustment for Single Story (Area)	0	Square Fee
H. Proposed Adjustment for Flag Lot	0	Square Fee
I. Total New Lot Coverage Area:		
1. Main Structure Roof Area	2,239	Square Fee
2. Accessory Structure Roof Area	0	Square Fee
3. Vehicular Use (driveway, paved access easements		
[portion used by the lot for access], parking)	1,912	Square Fee
4. Covered Patios and Covered Decks	425	Square Fee
5. Total New Lot Coverage Area (I1 + I2 + I3 + I4)	4,576	Square Fee
J. Total Project Lot Coverage Area = (E5 - F) + I5	4,576	Square Fee
K. Proposed Lot Coverage Area = (J/B) x 100	27.1	% of Lot

Hardscape Calculations		
A. Gross Lot Area	18,295	Square F
B. Net Lot Area	16,865	Square F
C. Area Borrowed from Lot Coverage	0	Square F
D. Allowed Hardscape Area = 9% of lot area + C	0	% of Lot
E. Allowed Hardscape Area	0	Square F
F. Total Existing Hardscape Area:		
1. Uncovered Decks	0	Square F
2. Uncovered Patios	0	Square F
3. Walkways	0	Square F
4. Stairs	0	Square F
5. Rockeries and Retaining Walls	0	Square F
6. Other	0	Square F
7. Total Existing Hardscape Area (F1 +F2 +		
F3 + F4 + F5 + F6)	0	Square F
G. (Total Hardscape Area Removed)	0	Square F
H. Total New Hardscape Area:		
1. Uncovered Decks	0	Square F
2. Uncovered Patios	0	Square F
3. Walkways	119	Square F
4. Stairs	44	Square F
5. Rockeries and Retaining Walls	70	Square F
6. Other	0	Square F
7. Total New Hardscape Area (H1 + H2 + H3		
+ H4 + H5 + H6)	233	Square F
I. Total Project Hardscape Area = (F7 - G) + H7	233	Square F
J. Total Project Hardscape Area = (I/B) x 100	1.4	Square F

Lot Slope Calculations				Square Fee
Highest Elevation Point of Lot:	222	Feet	Lot Area	18,295
Lowest elevation Point of Lot:	184	Feet	Max Allowable Gross Area =	
Elevation Difference:	38	Feet	(Lot Area)*(40%)* (85%)	6,220
Horizontal distance Between			Max Allow Area per Floor =	
High and Low Points:	127	Feet	(Max Allowable Gross	
Lot Slope	29.9%	%	Area)/2	3,110

Gross Floor Area Calculations					
Existing Area Removed Area New/Addition Area Total					
Building Area	(Square Footage)	(Square Footage)	(Square Footage)	(Square Footage)	
Jpper Floor	0	0	1848.8	1848.8	
Nain Floor	0	0	1402.7	1402.7	
Gross Basement Area	0	0	0	0	
Garage/Carport	0	0	635.5	635.5	
otal Floor Area	0	0	3887	3887	

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1-800-424-5555 utilities underground location center

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



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

Project:

Moran Residence

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REV	DATE	DESCRIPTION

Site & Grading Plan

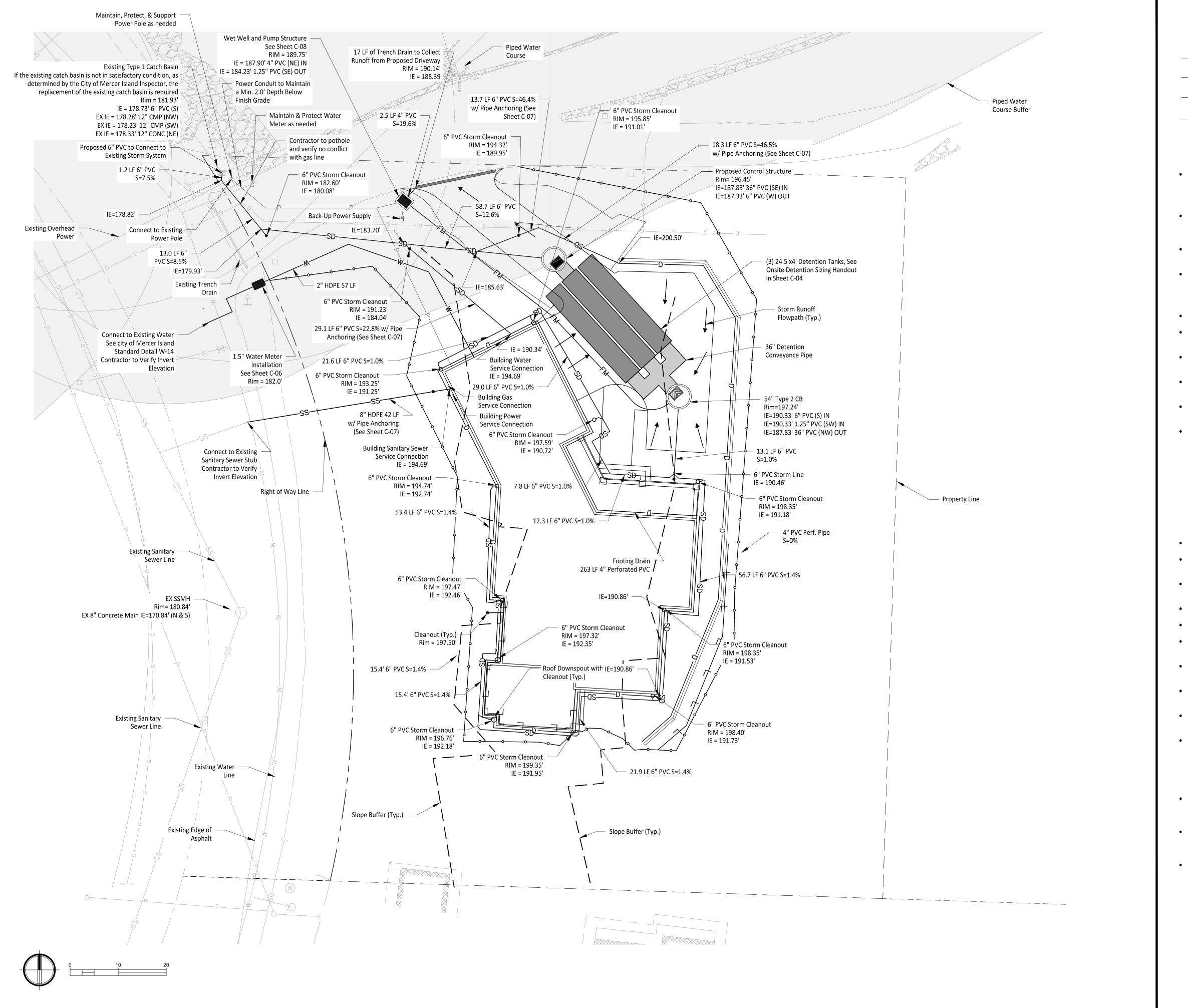
RAWN BY: 1576001

DESIGN BY:

SHEET NUMBER.

C-02

DWG.



LEGEND

Sanitary Sewer Line Water Line **Power Conduit** Stormwater Line

CONSTRUCTION NOTES

- ASTM 3034 SDR 35 PVC pipe, fused solid wall HDPE, schedule 40 ABS, DIP or CIP (up to 8 ft. depth). Over 8 ft. depth and slopes more than 20%, DIP, CIP, or fused solid wall HDPE are required.
- Bedding material for open cut construction must be pea gravel, sand, control density fill (CDF), or 5/8"
- Select backfill material shall be 5/8" minus C.R. or control density fill (CDF).
- Imported backfill material shall be bank run gravel or pit run gravel from an approved supplier meeting APWA/WSDOT gradation specifications. Not allowed in right-of-way.
- Rubber gaskets must be used when appropriate.
- Rigid couplings must be used forconnections to existing stubs in right-of-way.
- A stainless steel strap and saddle (Romac) must be used for coring.
- 1" Water Meter Installation see City of Mercer Island Detail on sheet C-06.
- Tapping Tee Installation see City of Mercer Island Detail on sheet C-06.
- The lawn and landscape areas are required to provide Post-Construction Soil Quality and Depth in accordance with BMP T5.13. The project civil engineer must provide a letter of certification to ensure that the lawn and landscape areas are meeting the Post-Construction Soil Quality and Depth Requirements specified on the approved plan set prior to final inspection of the

GENERAL NOTES

- Water Service laterals shall have a minimum cover of 12 inches.
- Roof leader locations to be verified by contractor prior to construction.
- Storm pipes to maintain a minimum cover of 1.5' from finish
- Storm pipes to be SDR 35 PVC piping.
- Sanitary Sewer laterals to be soild wall HDPE piping.
- Saniatry Sewer Laterals to mantain a minimum cover of 3.0' from finish grade.
- Pipes entering and exiting catch basins a tee section or bent elbow must be installed for spill control.
- Power conduit shall maintain a minimum cover of 2.0' from finish grade.
- Franchise utilities shown on this plan are not reviewed or approved by the City of Mercer Island.
- The TV inspection of the existing side sewer to the City sewer main on W Mercer Way is required prior to any work related to the side sewer. If the result of the TV inspection is not in satisfactory condition, as determined by the City of Mercer Island Inspector, the replacement of the existing side sewer is required.
- An emergency on-site, back-up power supply and an external alarm system for system failure and high water level indicator are required for the pump system.
- Private property owners shall be responsible for any and call claims for injuries and damage due to the operation or non-operation of the pump system.
- Stormwater Cleanout lid per WSDOT Standard Plan B-85.40-00

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

Architect:

Owner/Developer:

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



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

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REV DATE DESCRIPTION

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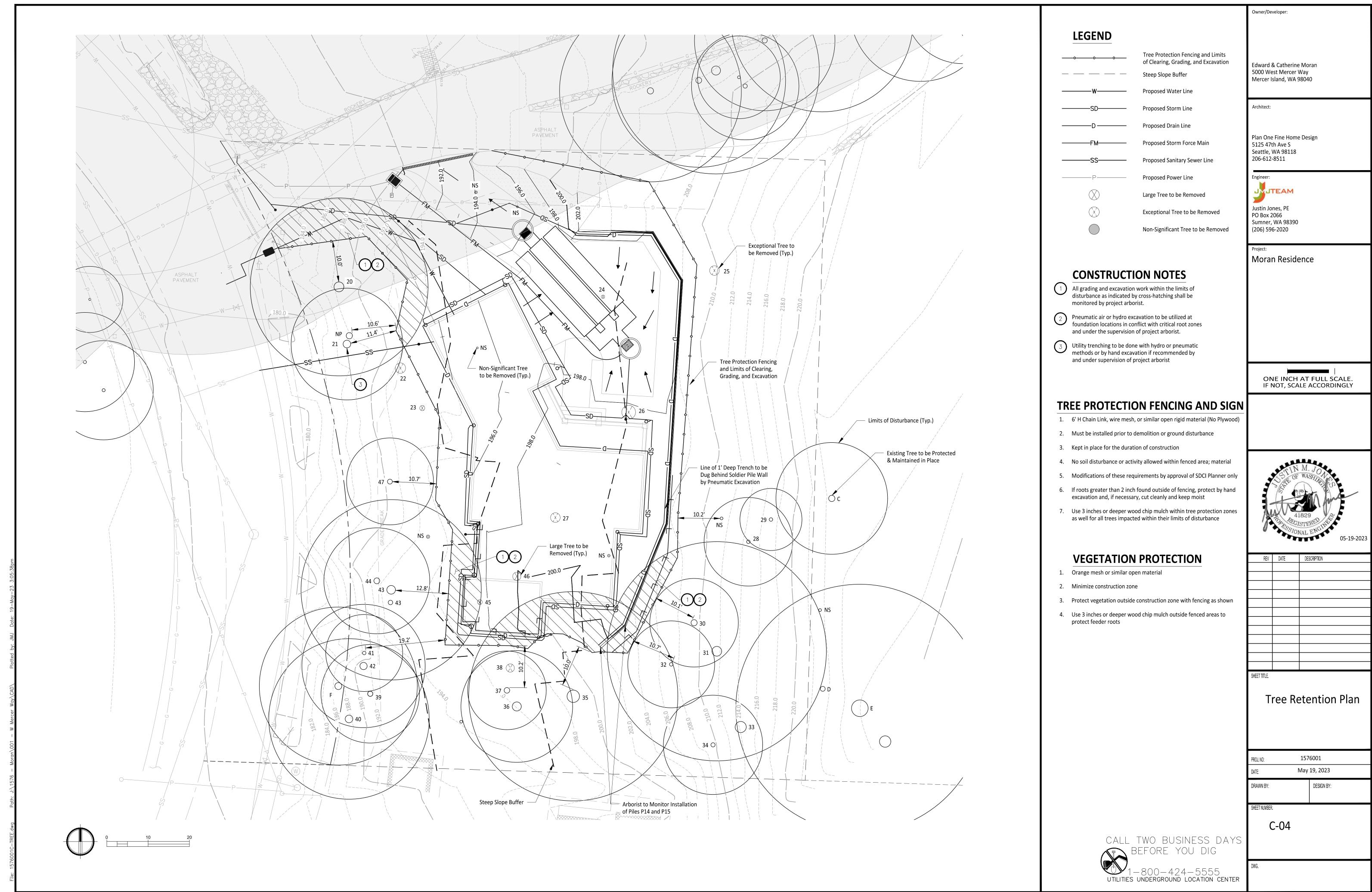
Utility Plan

1576001 May 19, 2023 DESIGN BY:

SHEET NUMBER.

C-03

UTILITIES UNDERGROUND LOCATION CENTER





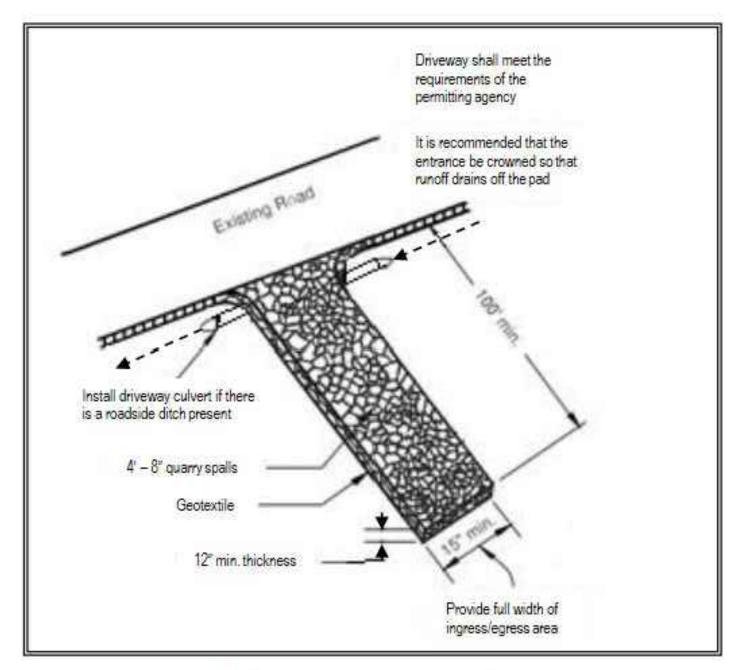


Figure 4.1.1 - Stabilized Construction Entrance

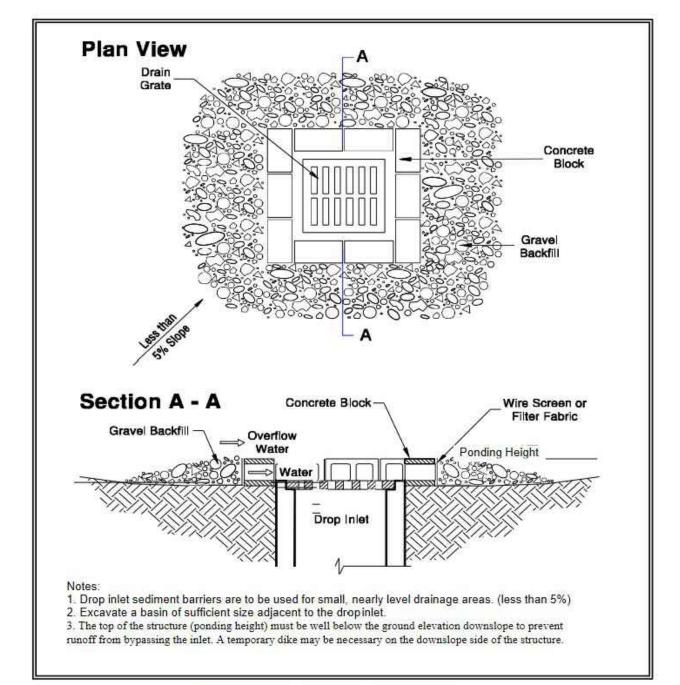
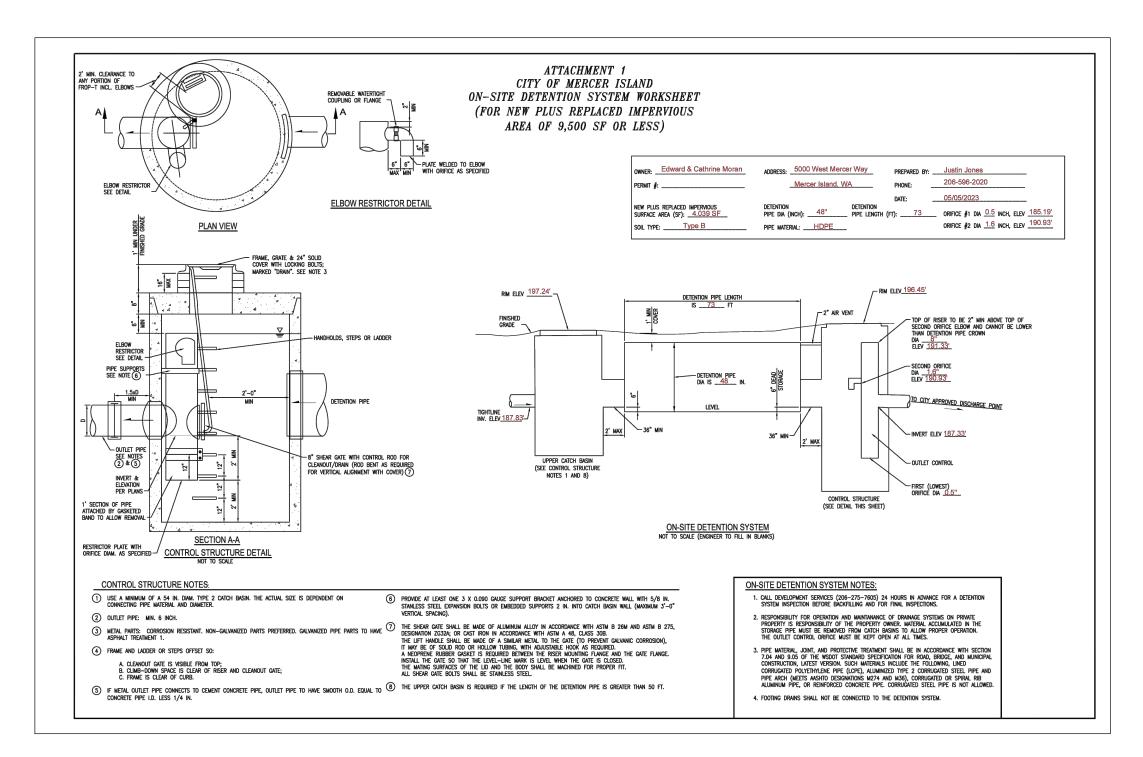


Figure 4.2.8 - Block and Gravel Filter



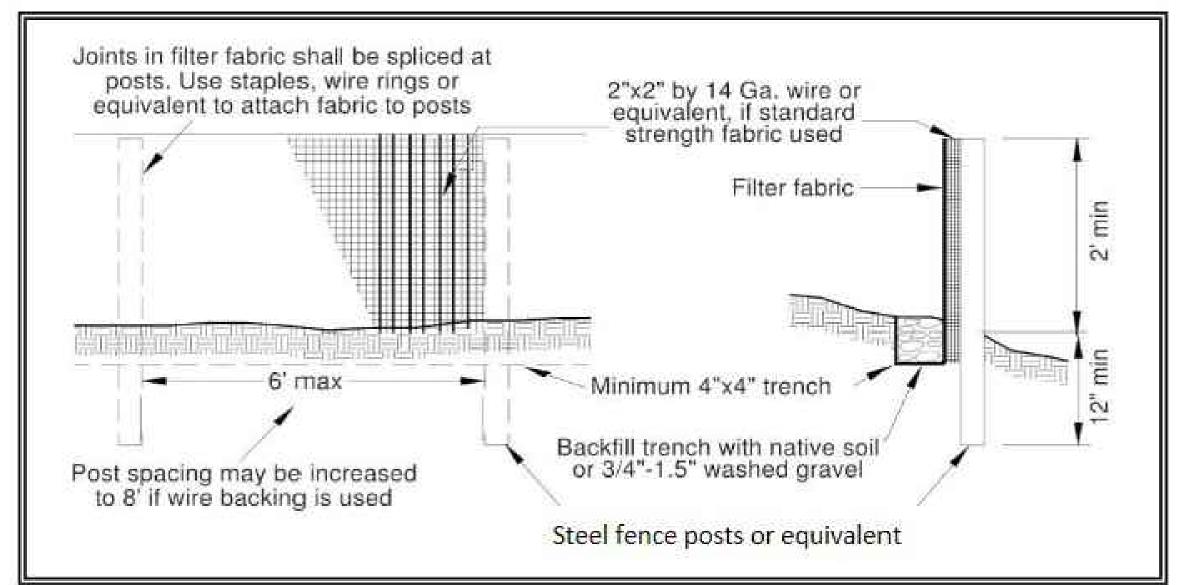


Figure 4.2.12 - Silt Fence

er/Developer:
ard & Catherine Moran
0 West Mercer Way cer Island, WA 98040
cei isialiu, WA 30040
itect:
One Fine Home Design
5 47th Ave S ttle, WA 98118
-612-8511
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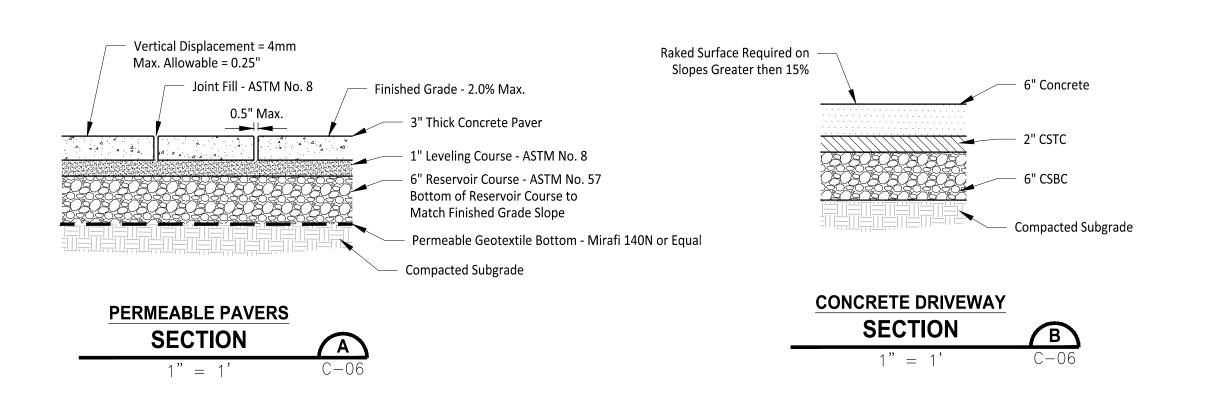
May 19, 2023

SHEET NUMBER.

C-05

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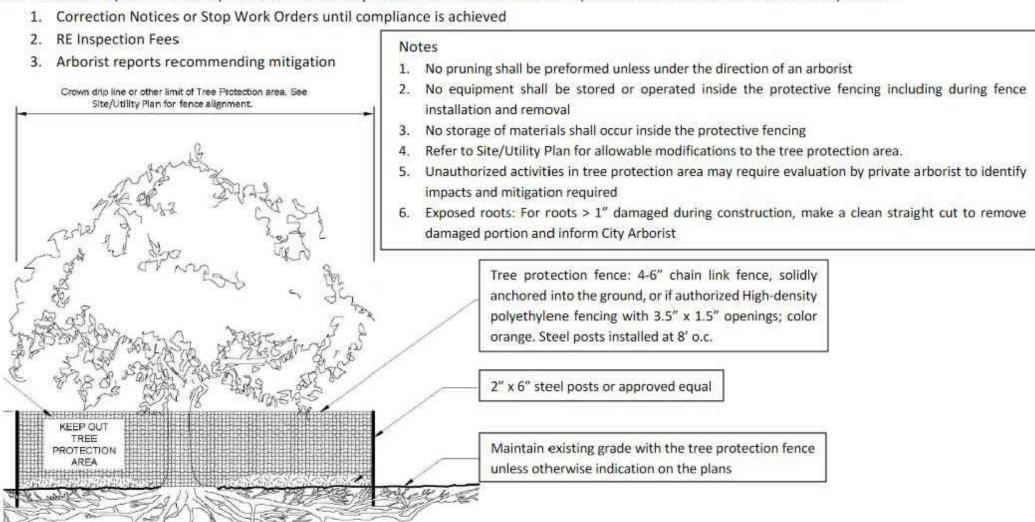
CALL TWO BUSINESS DAYS BEFORE YOU DIG 1-800-424-5555 1-800-424-5555 UTILITIES UNDERGROUND LOCATION CENTER

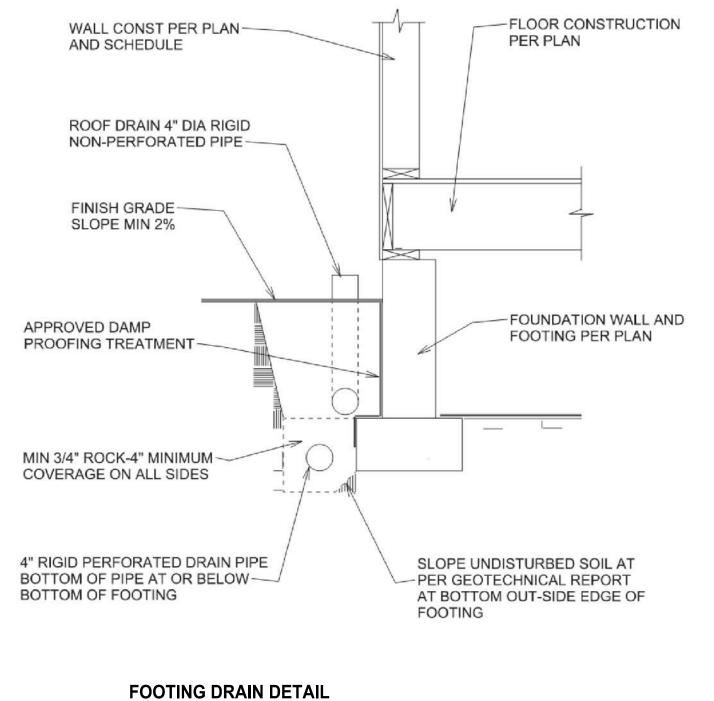


TREE PROTECTION AREA (TPZ) KEEP OUT!

DO NOT REMOVE OR ADJUST THE APPROVED LOCATION OF THIS TREE PROTECTION AREA

Trees enclosed by this fence are protected and are subject to the conditions of the tree permit. Violation of tree conditions may lead to:



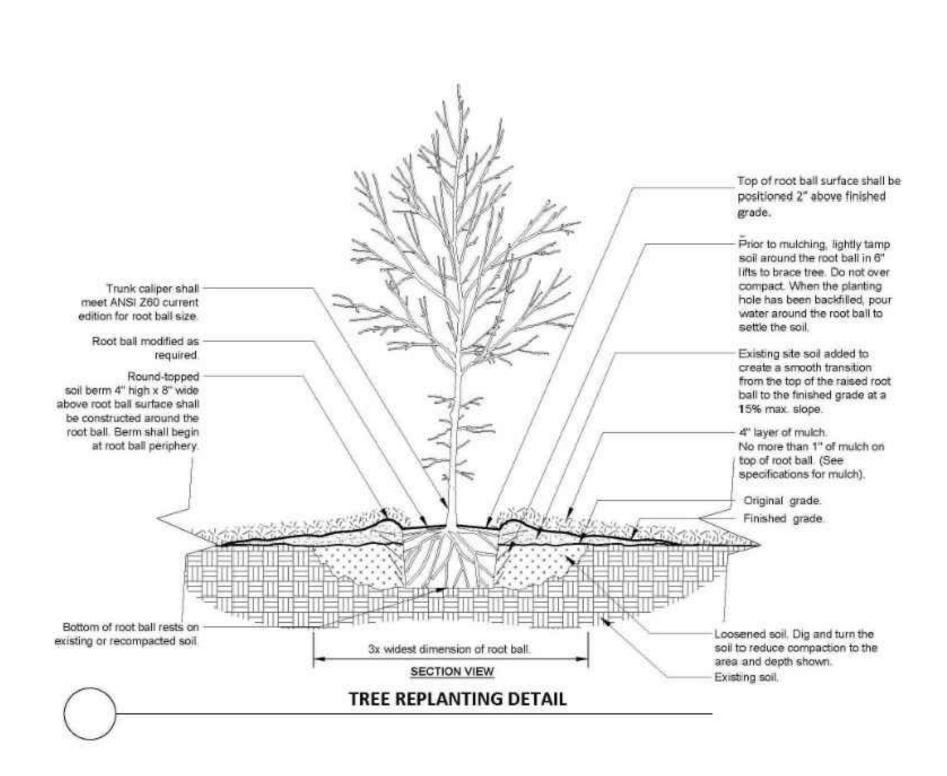


FOOTING DRAIN DETAIL

SECTION

3/4" = 1'

C-0



Owner/Developer:

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

Architect:

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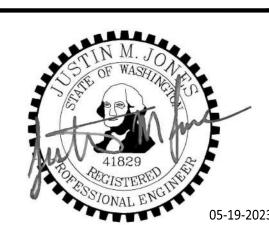


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Project

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REV	DATE	DESCRIPTION
SHEET TITLE.		

Details

PROJ. NO: 1576001

DATE: May 19, 2023

DRAWN BY: DESIGN BY:

SHEET NUMBER.

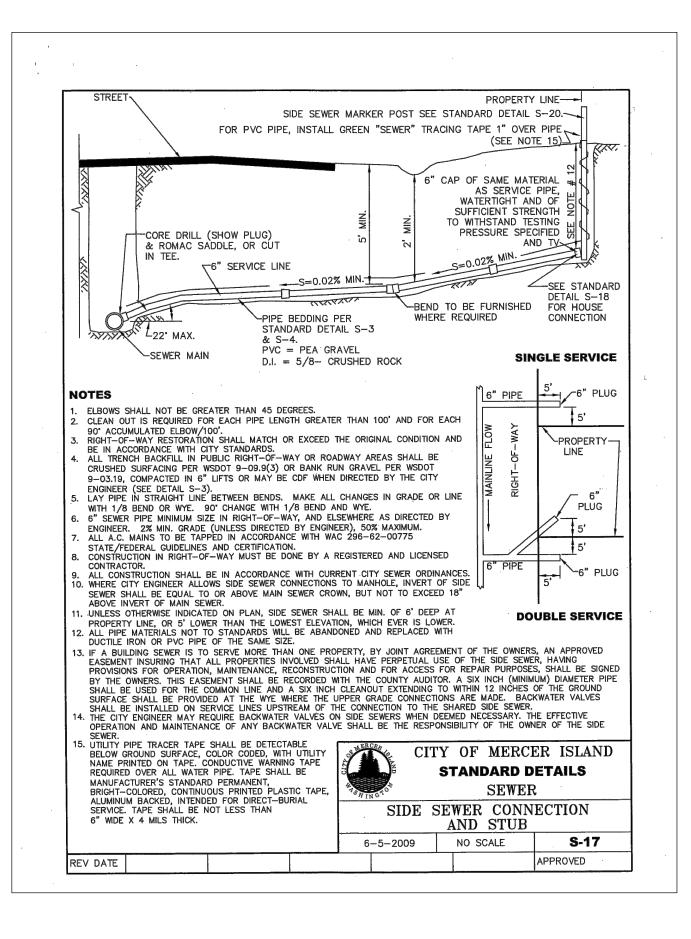
C-06

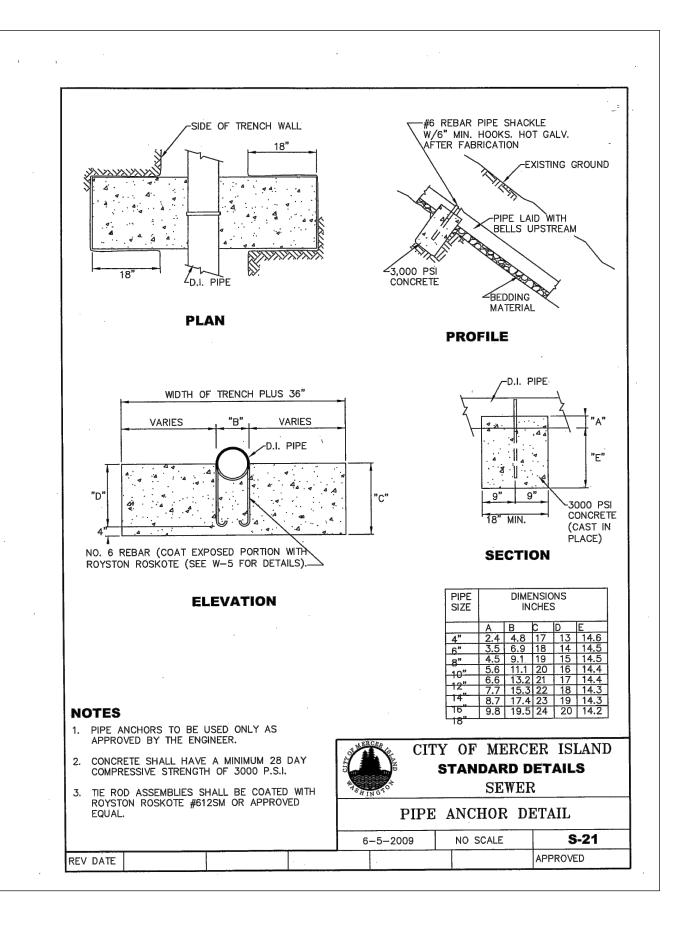
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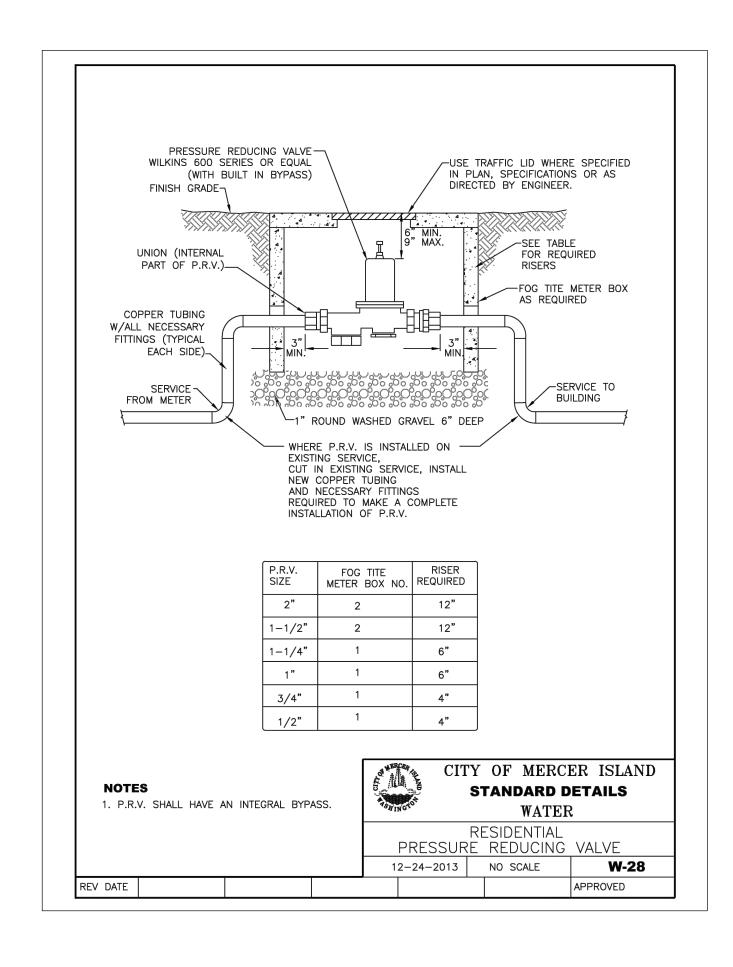
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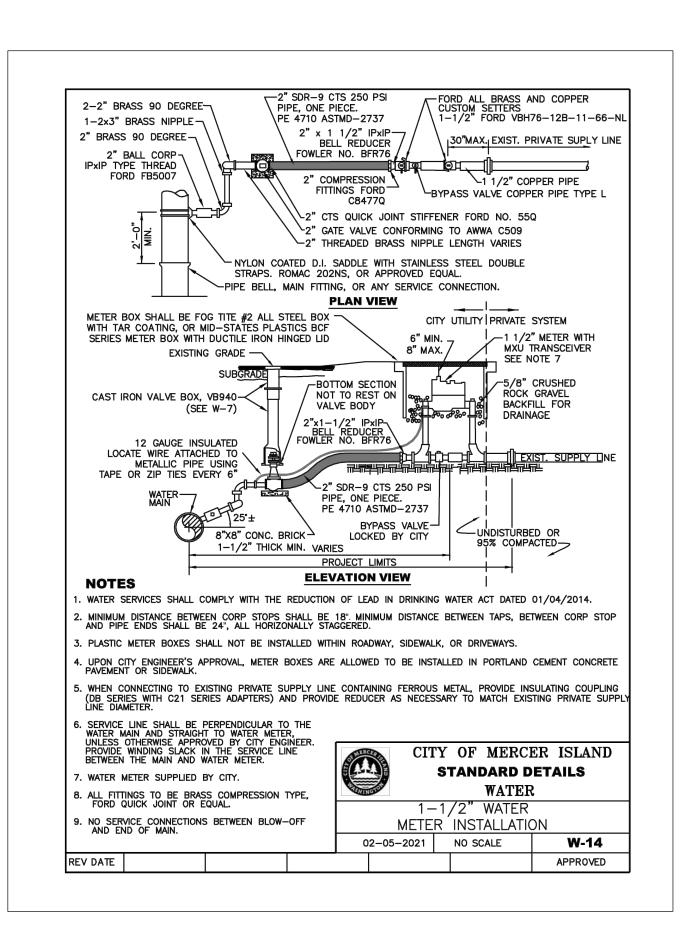
BEFORE YOU DIG

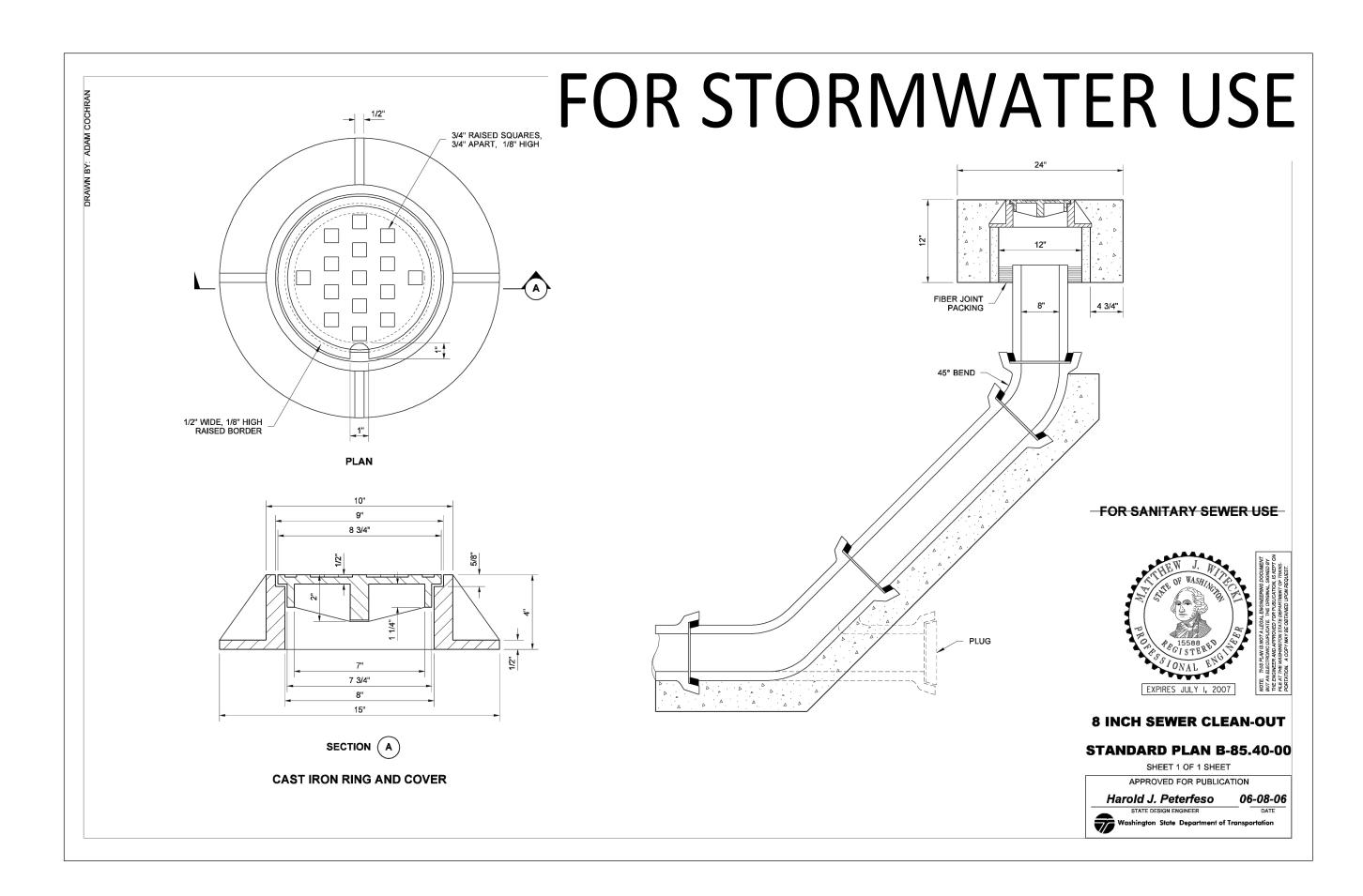
DWG.











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



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Moran Residence

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REV	DATE	DESCRIPTION

Details

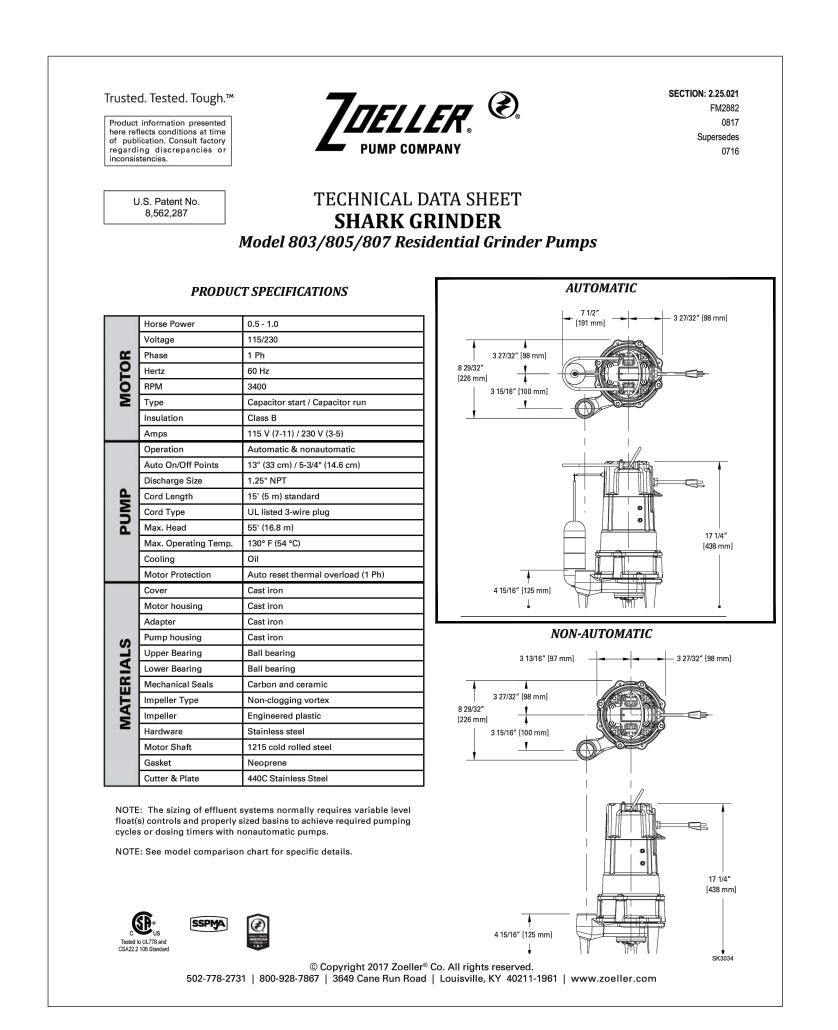
PROJ. NO:	1576001		
DATE:	May 19, 2023		
DRAWN BY:	DESIGN BY:		

SHEET NUMBER.

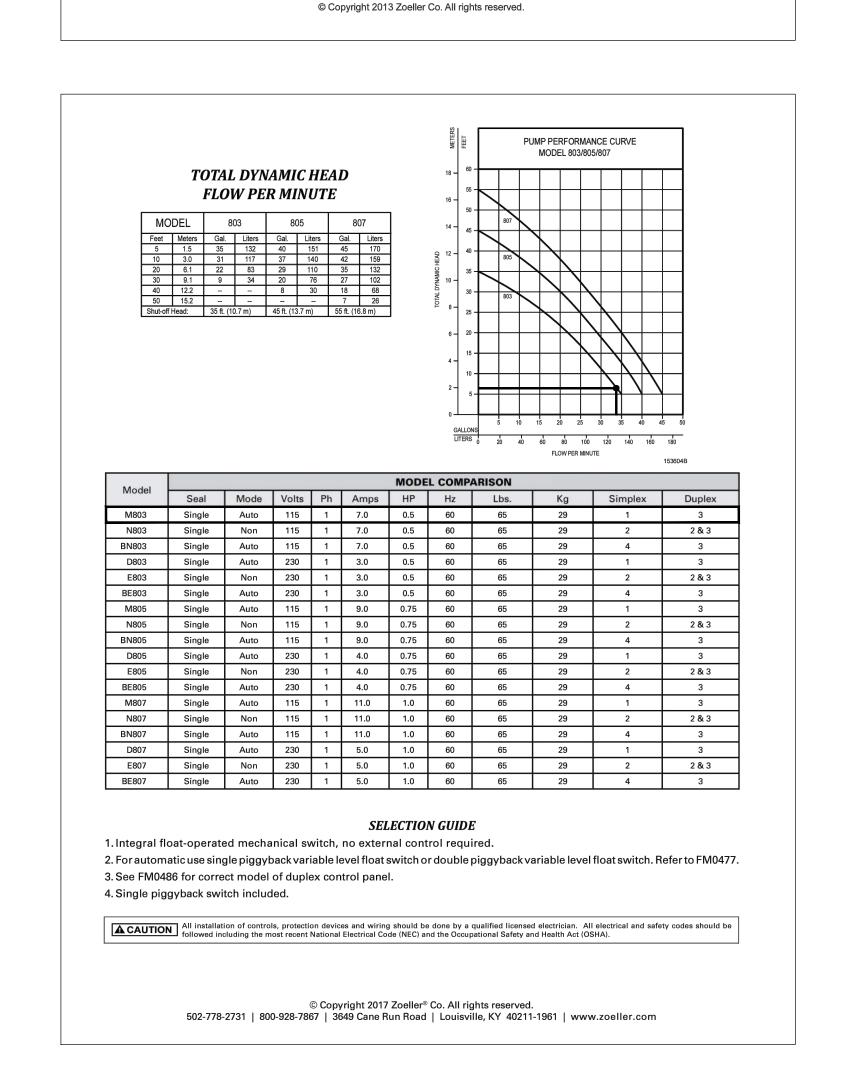
C-07

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OUTDOOR BASINS AND ACCESSORIES SIMPLEX OUTDOOR BASINS - FIBERGLASS ONLY - NO HOLES DRILLED 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" 31-0594 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) 11/4", (1) 11/2", (2) 2" and (1) 4" grommets. DUPLEX OUTDOOR BASINS - FIBERGLASS ONLY - NO HOLES DRILLED W X H36" 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) 11/4", (1) 11/2", (2) 2" and (1) 4" grommets. ADDITIONAL BASIN SIZES WITH OPTIONS (i.e. Rail Studs) ARE AVAILABLE. CONSULT FACTORY. Solid Fiberglass Cover _____W SK1866B **INDOOR OUTDOOR** 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. MAIL TO: P.O. BOX 16347 • Louisville, KY 40256-0347 SHIP TO: 3649 Cane Run Road • Louisville, KY 40211-1961 visit our web site: (502) 778-2731 • 1 (800) 928-PUMP • FAX (502) 774-3624 www.zoeller.com Your Peace of Mind is Our Top Priority® PUMP COMPANY



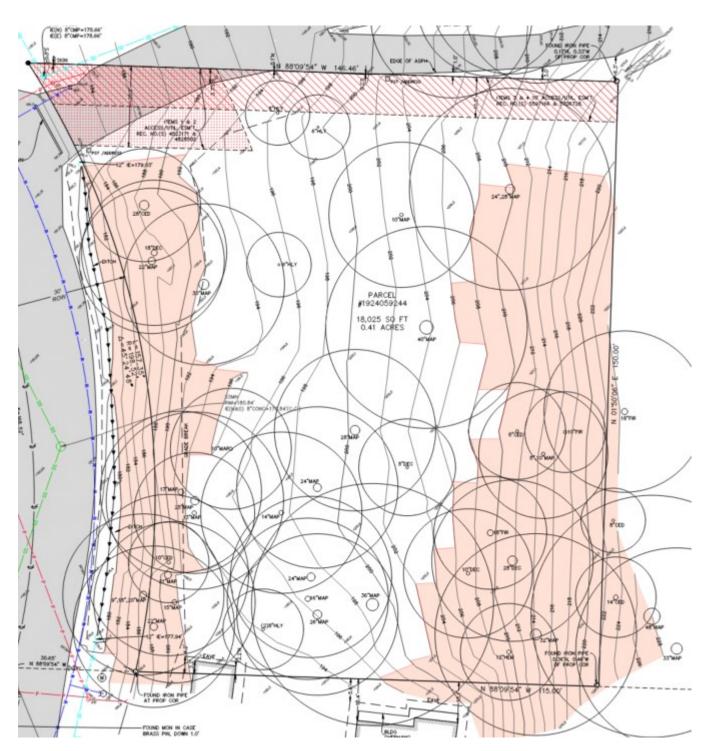
Owner/Developer: Edward & Catherine Moran 5000 West Mercer Way Mercer Island, WA 98040 Architect: Plan One Fine Home Design 5125 47th Ave S Seattle, WA 98118 206-612-8511 JMJTEAM Justin Jones, PE PO Box 2066 Sumner, WA 98390 (206) 596-2020 Moran Residence ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY 05-19-2023 REV DATE DESCRIPTION SHEET TITLE. Details 1576001 May 19, 2023 DESIGN BY: SHEET NUMBER. C-08

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UTILITIES UNDERGROUND LOCATION CENTER

DWG.



Source: Topographic & Boundary Survey (Terrane, 8/27/2020

Key Map



Existing ecological functions:

- Stormwater filtering, detention, infiltra-



2940 Westlake Ave N #200 Seattle, WA 98109 www.treesolutions.net 206-528-4670

Joseph Sutton-Holcomb ISA BCMA #PN-8397BM Municipal Specialist; Qualified Tree Risk Assessor

5000 W Mercer Way Mercer Island, WA Parcel # 1924059244 **Moran Residence**

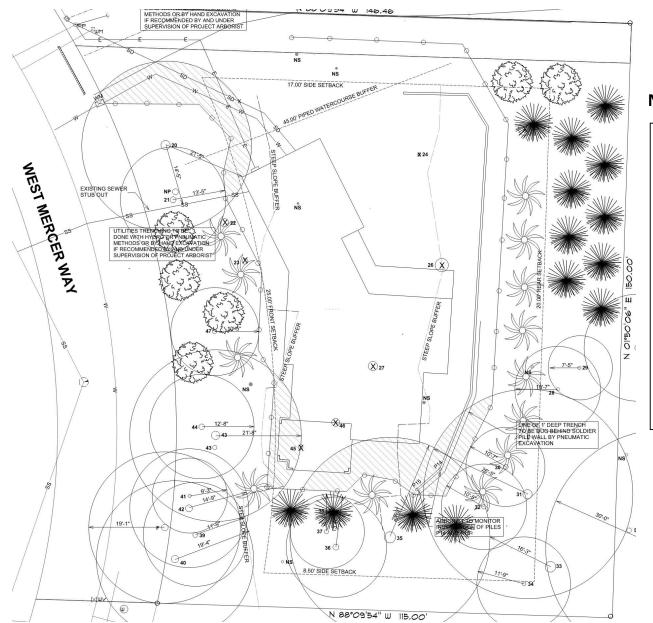
February 23, 2023

Existing Conditions

Sheet #

- Habitat (bird, amphibian, small mammals)
- Soil stabilization (roots)
- tion (foliage and dense twigs)

NORTH





NOTES:

8 trees are proposed for removal, and 48 replacement Trees are required.

36 new trees will be planted on site.

The remaining 12 required replacement trees will be covered with the fee-in-lieu (\$949), resulting in a total fee of **\$11,376**

Plant icons are to scale and represent a 5' radius, to allow for a minimum of 10' spacing on center. Plants shall not be installed within 10' of any existing structures such as building foundations or retaining walls.

Plan must be consistent with standard tree and vegetation plan and BMP's and conform to all Federal, State, and Local agency management requirements.

SYM	QTY	NAME	SCIENTIFIC NAME	SIZE	SPACING
Trees / Shrubs					
	14	Mountain hemlock	Tsuga mertensiana	6 ft	10' o.c.
	6	Douglas-fir	Pseudotsuga menziesii	6 ft	10' o.c.
*	13	Vine maple	Acer circinatum	1.5" cal.	10' o.c.

Tree Solutions Inc Consulting Arborists

2940 Westlake Ave N #200 Seattle, WA 98109 www.treesolutions.net **206-528-4670**

Joseph Sutton-Holcomb
ISA BCMA #PN-8397BM
Municipal Specialist; Qualified
Tree Risk Assessor

Moran Residence 5000 W Mercer Way Mercer Island, WA Parcel # 1924059244

February 23, 2023

Mitigation Plan

Sheet #

L-2

NOTES: Tree Removal and Planting

Tree Removals:

Trees # 22, 23, 25, and 38 are proposed for removal outside of the building footprint due to grading. These should be left as 10-foot-tall wildlife habitat snags. The base of the trees shall be girdled to prevent sprouting.

All logs from tree removals should be placed deliberately against the slope to remain as nurse logs to the extent feasible. Wood must be in contact with the ground and lay perpendicular to the slope. Smaller twigs and branches can be intentionally left on site as coarse woody debris or used as wattles to decrease surface erosion and create planting pockets. All wood, leaf and twig litter that cannot be re-used and left in direct contact with the ground, must be chipped to be used as woodchip much for new tree plantings or removed from the site

Clearing and Grubbing Notes:

No grading activity should occur within the restoration area.

All native plants shall be left in-tact throughout the restoration area, except where noted.

Vegetation removal and planting shall be done by hand (no wheeled nor tracked equipment will be used to remove or replace vegetation). Where possible, non-invasive vegetative material shall be composted on site discreetly in one or more concentrated compost pile(s) or properly disposed of off site. Compost piles shall be not more than three feet high and shall not be within 15 feet of an existing retained tree.

Removal of invasive plants will be done using a combination of hand tools, hand-held power equipment, and chemical controls such as foliar herbicide spray and spot-treatments following stem cutting.

Specifically, Ivy (*Hedera* spp) and Himalayan blackberry (*Rubus bifrons*) will be cleared and grubbed by hand -digging out the roots. If instability of slope precludes this grubbing, plants shall be cut at the base and chemical treatment shall be applied when the plants are actively growing. Remove invasive plant material from the site for disposal, if this is not feasible compost on-site on top of woody debris piles so that plant material is not in contact with the ground; this will prevent vegetative propagation. Once plant material is completely dry, it can be spread throughout the site as mulch material.

English holly (*Ilex aquifolium*) and Cherry laurel (*Prunus laurocerasus*) shall be treated with herbicide pellets injected directly into their stems. Trees and shrubs smaller than three inches diameter will be cleared and grubbed. Vegetative matter shall properly disposed of off site.

All herbicide use shall be performed under the supervision of a licensed pesticide applicator with a Commercial Applicator's License per WAC 16-228-1231. All on-site transport, use, and clean-up of pesticides / herbicides shall conform to regulations set forth by WAC 16-228-1220. The applicator will follow King County's noxious weed regulatory guidelines and King County's best management practices for invasive species removal using herbicide.

Basic Planting Instructions

(Partially abridged from the Seattle Standard Mitigation Plan)

Plant between mid-October and mid-December. If that is not possible, plant between mid-December and mid-April. Do not plant during dry months. No slope work should occur during periods of extreme wet weather.

Before planting, set out the plants according to the planting plan. Remove invasive vegetation, including English ivy and Himalayan blackberry, from all areas on the property.

Spacing is approximate and listed as distance between plants 'on center' (o.c.), where existing conditions allow. Adjust locations of plants if the planting hole location per the planting plan requires damaging existing tree roots or native vegetation.

Dig bowl-shaped planting holes at least twice the width of the potted plant. The hole should be just slightly shallower than that of the planted plant.

Rough up the sides of the planting hole.

Remove the plant from its container and gently loosen bound roots on the outer inch of the soil and cut roots that encircle the root ball.

Set the plant in the hole so that the top of the soil remains level with the surrounding soil. Fill the surrounding space with loose native soil. Cover any exposed roots but do not pile dirt on the stem as it can kill some plants.

Firmly press the filled soil to collapse air pockets, but allow the soil to remain loose. Form a temporary water basin around each plant to encourage water collection.

Overplanting can assist in less maintenance disturbance over time by reducing number of times slope is accessed. Assuming that monitoring goals are met.

Water thoroughly.

Mulch with 4 inches of wood chips. If wood chips are not available, mulch with leaves or compost. Do not allow mulch to touch the base of the plant.

Install temporary irrigation (water bags, tree gators, drip tubing etc). Test temporary irrigation and water plants thoroughly again.

Maintenance:

Maintenance of the restoration site involves temporary irrigation over a **five year establishment period.** It also includes removal of invasive plant material twice annually during the dry season (July through September). Annual and perennial grasses that seed in shall not be removed during maintenance.



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Moran Residence 5000 W Mercer Way Mercer Island, WA Parcel # 1924059244

February 23, 2023

Planting Specifications

Sheet #

L-3

Monitoring Requirements

Regular maintenance of this area is required for a minimum period of 5 years. This includes regular weeding, removal of invasive species, and supplemental irrigation.

Irrigation is intended to help young plants establish, and should be reduced in volume and frequency with each year so plants are self-sufficient at the end of the maintenance period and not shocked by lack of water when irrigation ceases.

Invasive plant species (specifically ivy) must be managed during the maintenance period. Management includes hand-grubbing, removal from site, and some chemical controls as specifically called out.

Annual inspections by a qualified professional should take place during the growing season. Inspectors should produce a memo with photographic documentation, and submit it to the city for review.

Criteria for determining the success of mitigation at the end of 5 years:

- 80% of new plants must be alive, including all tree specimens.
- Invasive plants must not be present.
- 100% of ground must be covered by vegetation.
- Native plants that self seed will count towards the overall replacement plants.

Contingency actions if mitigation fails (including additional monitoring):

- When new plants die, they must be replaced. If (at any time during the 5 year monitoring period) trees die, or mortality exceeds 20%, the 5-year maintenance clock is restarted at the time of new planting. Re-planting should occur in the fall.
- If invasive plants are still present after 5 years, maintenance must continue until area is free of invasives for 3 consecutive years.

Ecological Function

Within these defined areas, the vegetation provides the following ecological functions: Habitat (birds, amphibians, small mammals)

Soil stabilization (roots)

Stormwater filtering (foliage and twigs)

Trees Removed

8 trees (# 22, 24, 25, 26, 27, 38, 45, 46)

Tree Planting

36 trees

Restoration

Ivy, holly, and Himalayan blackberry removal

Existing ecological functions will be restored or improved in areas outside the house Footprint. In most of the areas Ivy is starting to climb canopies and lead to a decline in both growing conditions and ecological function of the site. Removal of invasive plants and restoration with native evergreen trees and understory plants will lead to a healthier longer term forest on the site. The fee-in-lieu will help replace the lost function of the trees removed in the area of the building footprint.



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1924059244 **Moran Residence** 5000 W Mercer Way Mercer Island, WA Parcel#

February 23, 2023

Monitoring & Maintenance Plan

Sheet #

TIMELINE

	Year 1 (summer)	Year 1 (fall)	Year 2	Year 3	Year 4	Year 5
Remove invasive plants: (Ivy, holly, blackberry)	Clear and grub (where possible) from restoration area; systemic herbicide as needed. Cover area with coir fabric to prevent surface erosion until planting		2 x remove or treat any regrowth or new seed-lings (May, July). Test irrigation line and re-align in May the same time as first weeding.	1 x remove or treat any regrowth or new seed-lings (May, July). Test irrigation line and re-align in May the same time as first weeding.	1 x remove or treat any regrowth or new seed-lings (May, July). Test irrigation line and re-align in May the same time as first weeding.	
Existing Trees (Removed / Re- tained)	Cut ivy at the base and remove ivy from the base.	Pull out dead ivy from canopy if still present	Remove ivy as needed	Removed ivy as needed		
New trees, shrubs, ground- cover		Install in fall with soaker hoses laid horizontally along the slope. Use flagging on new plants so they don't get weeded out.	Irrigation (soaker hose): May x 1 (test line) June x 2 July x 4 August x 4 September x 3	Irrigation: June x 2 July x 3 August x 3 September x 1	Irrigation: June x 2 July x 3 August x 3 September x 1	
Temporary Irrigation						
Temporary sediment control	Install coir blanket across slope where slope is void of vegetation. Small plants can be planted after coir fabric is laid. Blanket will deteriorate within 1 year. Establish temporary maintenance path to avoid excessive surface erosion during weeding/planting	From pruning, keep 2-4" diameter pieces of wood (if any) for wattles and planting pockets	Reinstall coir logs or blankets as needed			
Monitoring	Annual inspection with photo-documentation.		Annual inspection with photo-documentation.	Annual inspection with photo-documentation.	Annual inspection with photo-documentation.	Annual inspection with photo-documentation.

Tree Solutions Inc

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February 23, 2023

Monitoring & Maintenance Plan

Sheet #

L-5