

PROJECT INFORMATION

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CONTACT: ALI GASSIMIKIA
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RAINICH852K1

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ARBORIST: TREE SOLUTIONS
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SEATTLE, WA 98109
(206) 528-4670
CONTACT: JOSH PETTER
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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 TRUE 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 107.15 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

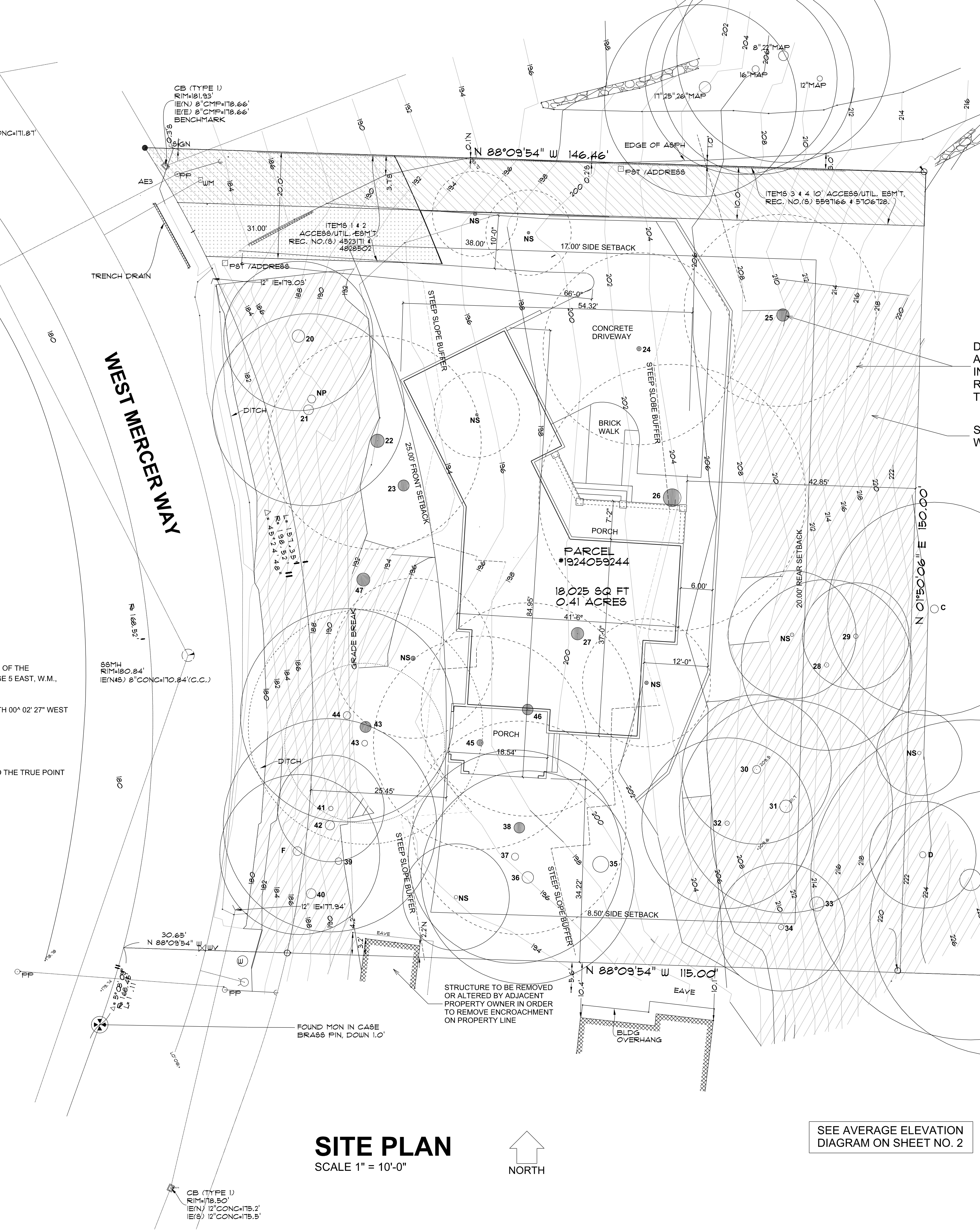
EXISTING ZONING: R-15

LOT AREA: 18,025 SQ. FT. (0.41 ACRE)

BUILDING CRITERIA CODES: 2018 IRC
2018 WSEC

CONSTRUCTION TYPE: VB

OCCUPANCY TYPE: R-3 IRC ONE FAMILY DWELLING



DASHED TREE DRIP LINES AND POSHAYED TRUNKS INDICATE TREES TO BE REMOVED-SEE ARBORIST'S TREE PLAN.

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 AVERAGE ELEVATION DIAGRAM ON SHEET NO. 2

SEE ARBORIST REPORT AND TREE SURVEY PLAN DATED SEPTEMBER 24, 2021 BY TREE SOLUTIONS, INC. FOR INFORMATION ON TREES TO BE RETAINED AND REMOVED

SITE PLAN
SCALE 1" = 10'-0"
NORTH

- 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 (FOUNDER)
- 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. ESMT. REC. NO.(S) 452311 & 4828502
- ITEMS 3 & 4 10' ACCESS/UTIL. ESMT. REC. NO.(S) 559166 & 5706128.

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REVISIONS	DATE	BY

PROPOSED NEW RESIDENCE FOR:
EDWARD & CATHERINE MORAN
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**

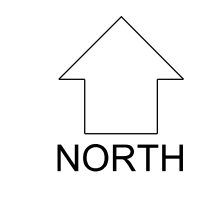
CB (TYPE D)
 RM=181.83'
 (EN) 8' CMP=178.66'
 (EE) 8' CMP=178.66'



L=15.1'
 S=198.57'
 Δ=45°24'48"

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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FIRE BLOCKING NOTES

PROVIDE FIRE BLOCKING PER 2015 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.

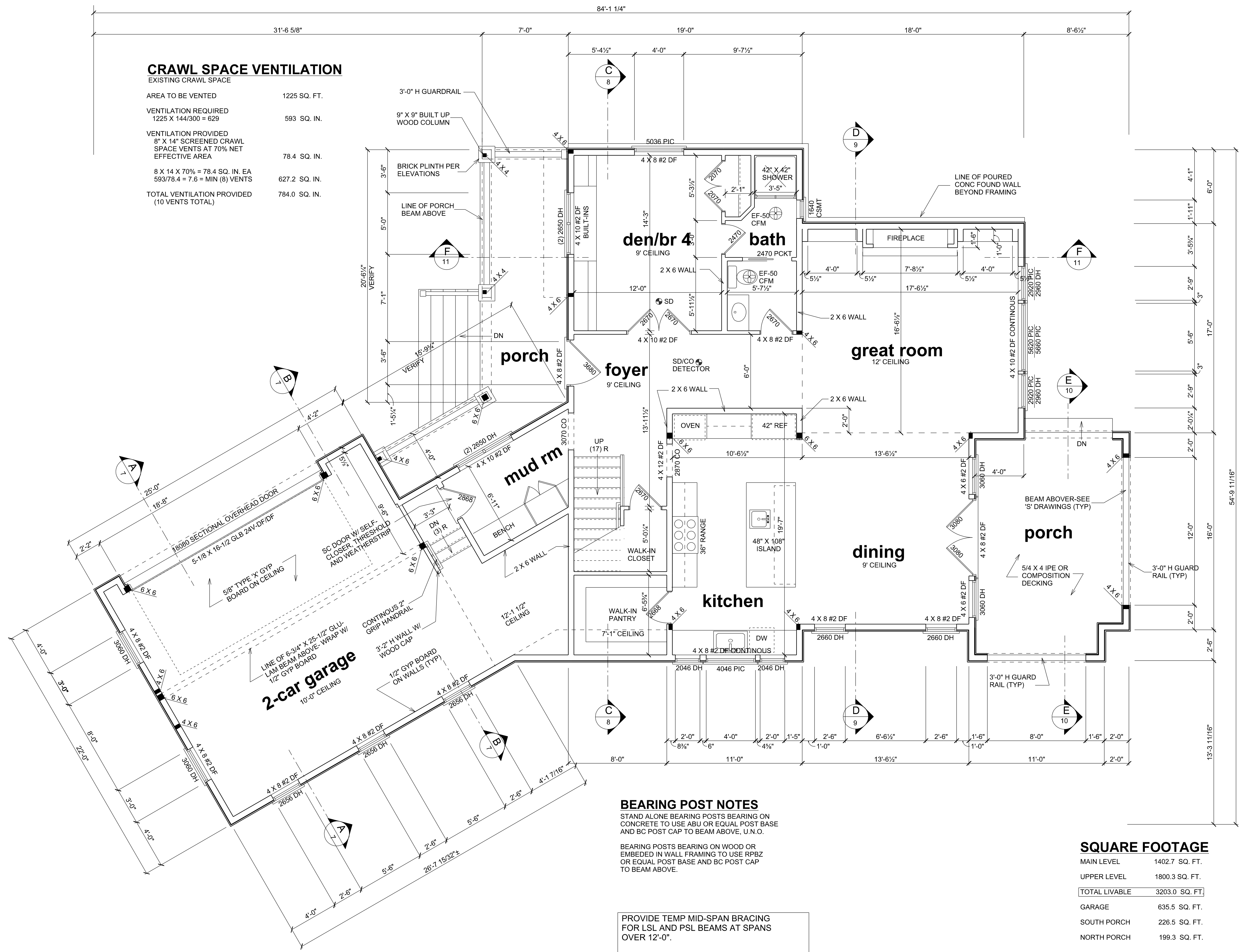
INDOOR AIR QUALITY

- 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 AT .35 WATTS PER CFM.

FLOOR PLAN NOTES

WHEN AND WHERE APPLICABLE

- 1. EXTERIOR WALL FRAMING TO BE 2 X 4 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 8" 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 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)



MAIN 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 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

SQUARE FOOTAGE

MAIN LEVEL	1402.7 SQ. FT.
UPPER LEVEL	1800.3 SQ. FT.
TOTAL LIVABLE	3203.0 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

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3

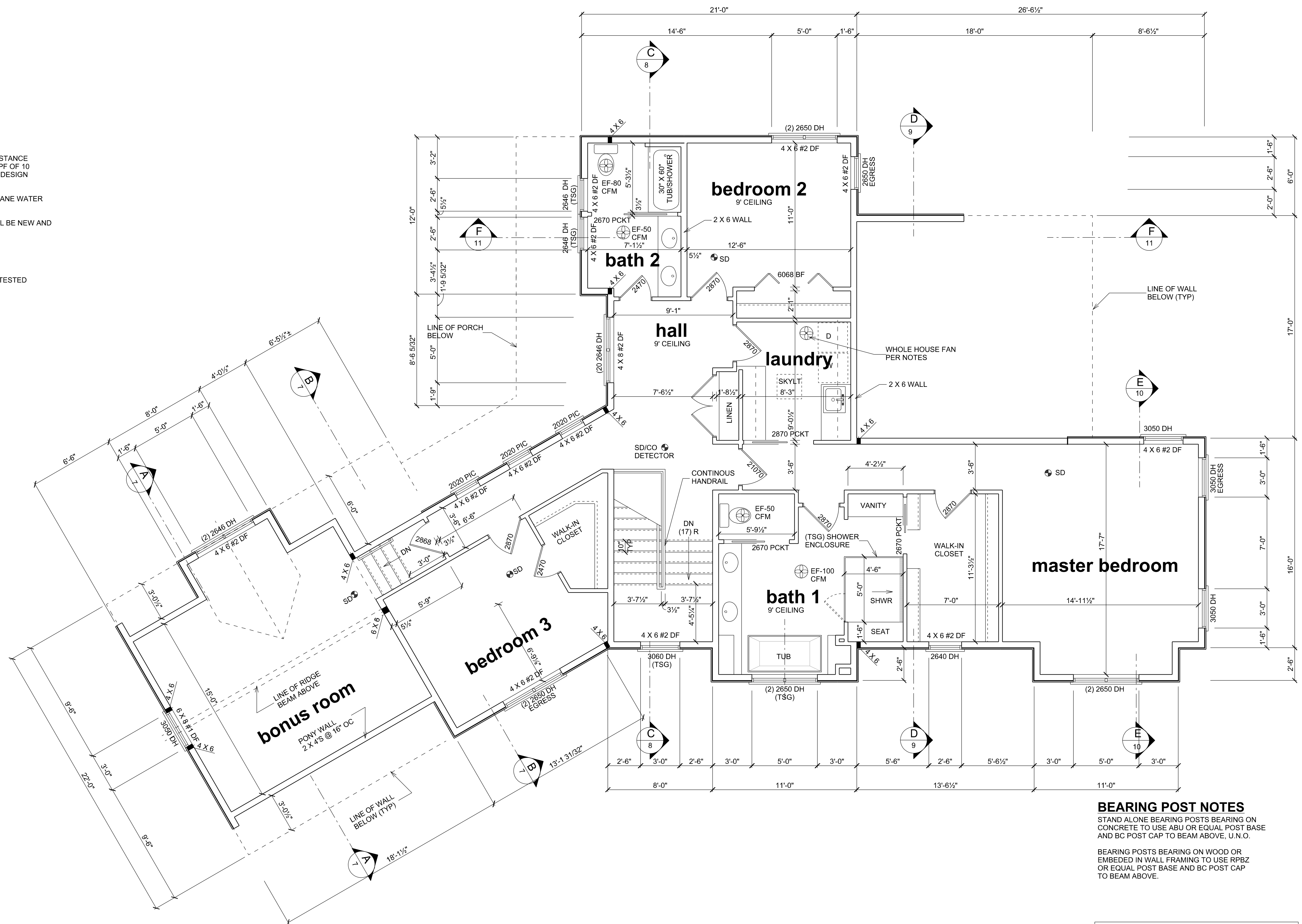
ENERGY CODE NOTES

- 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 THROUGHT 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 WITH 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 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

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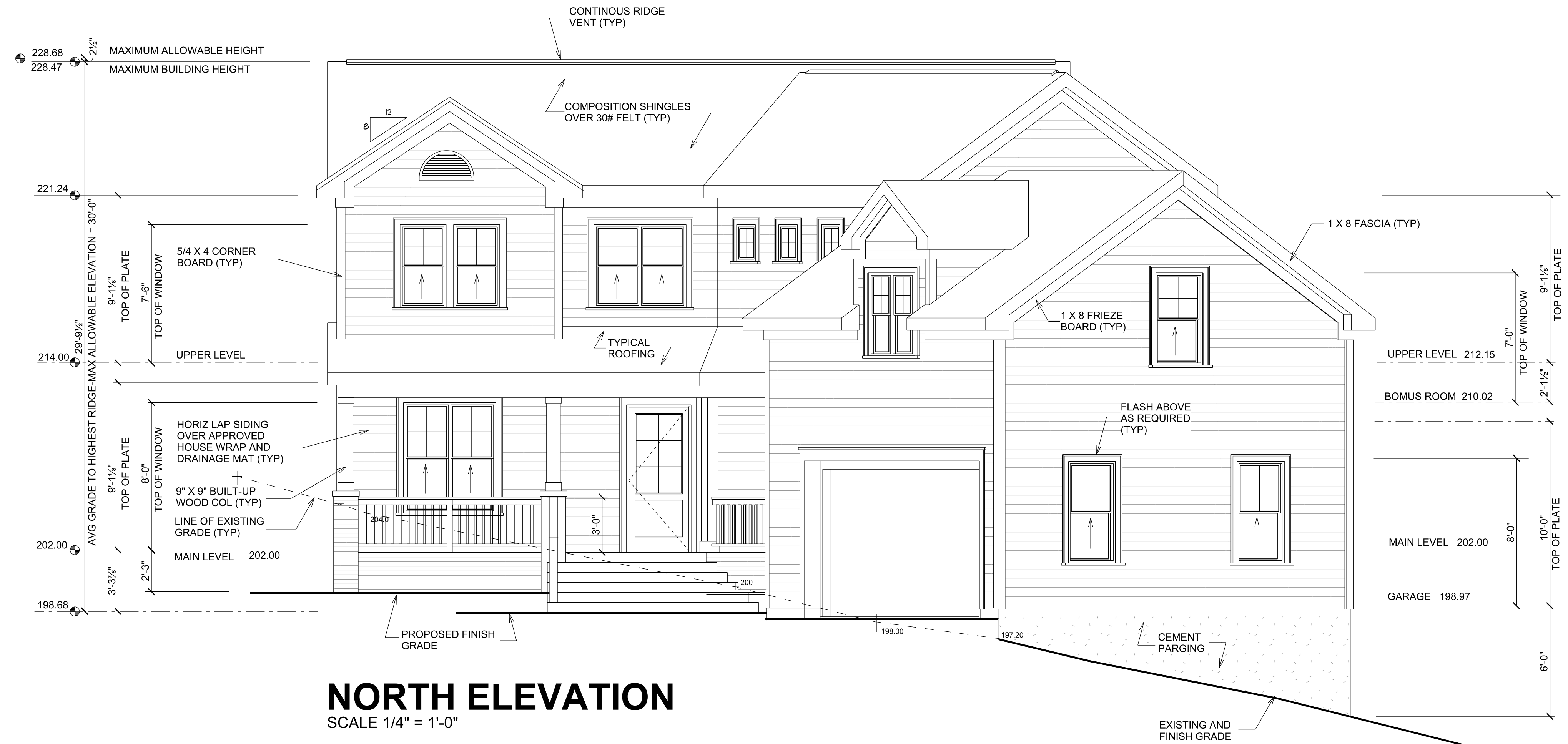
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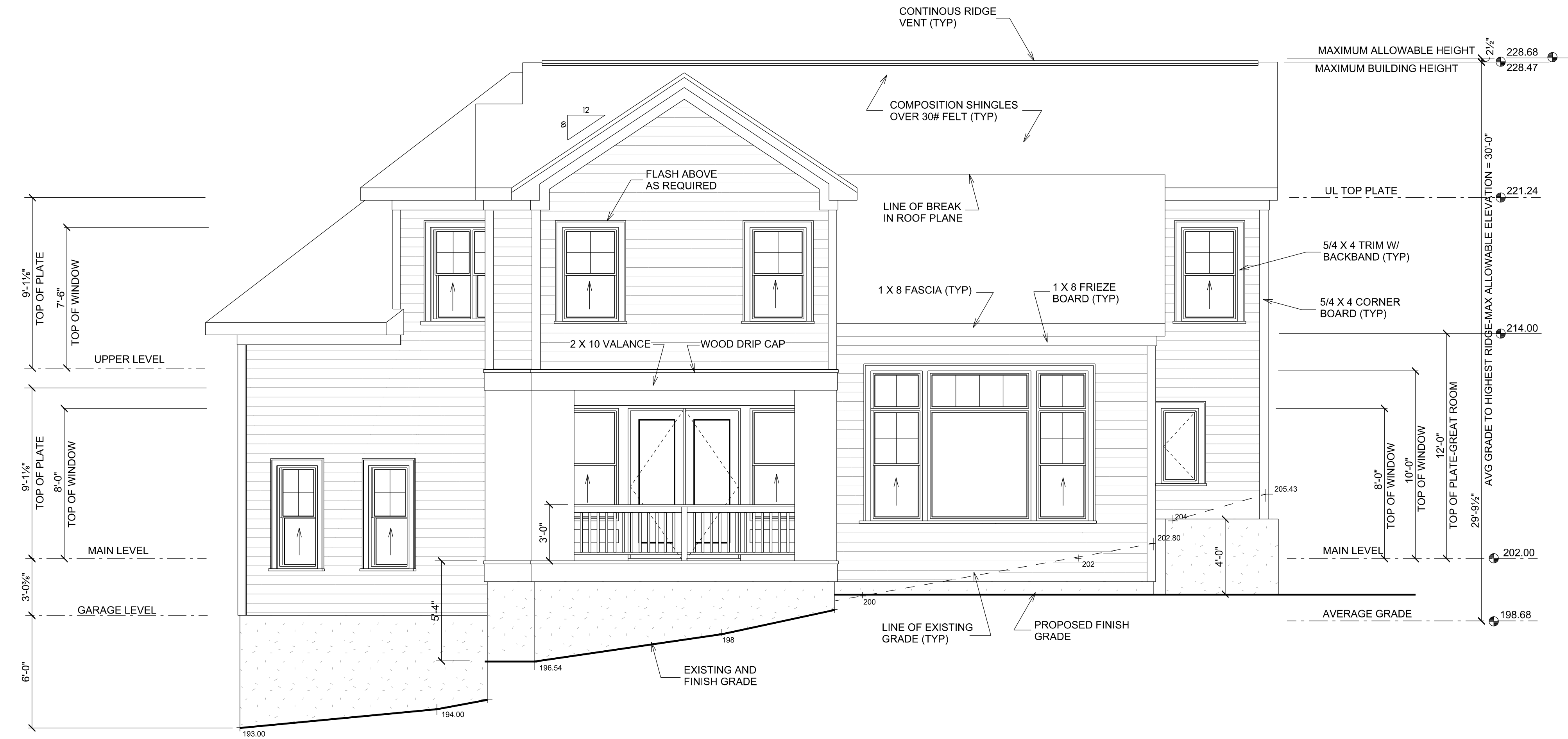
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NORTH ELEVATION
SCALE 1/4" = 1'-0"



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

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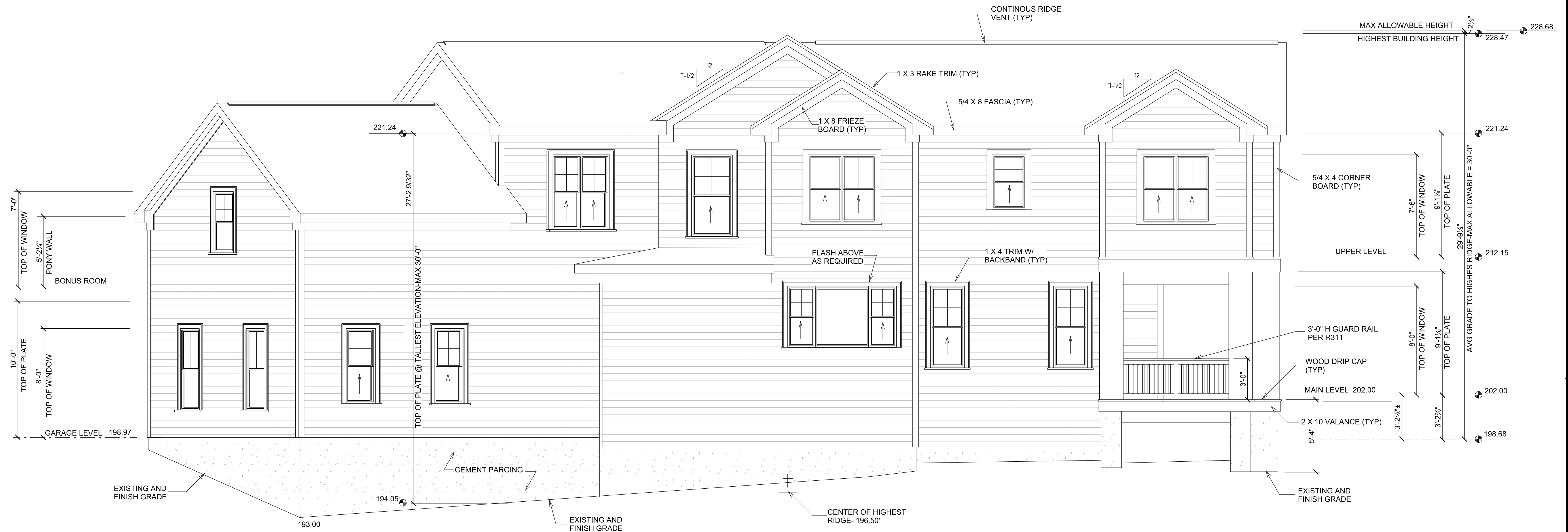
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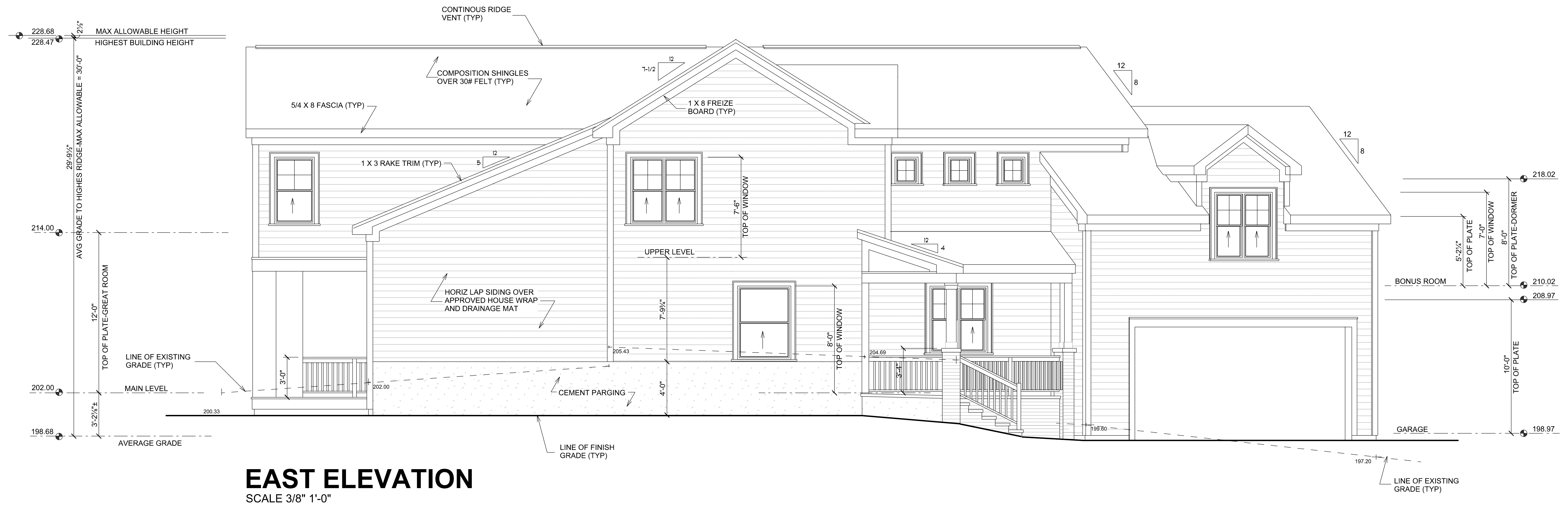
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SHEET NO.

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



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

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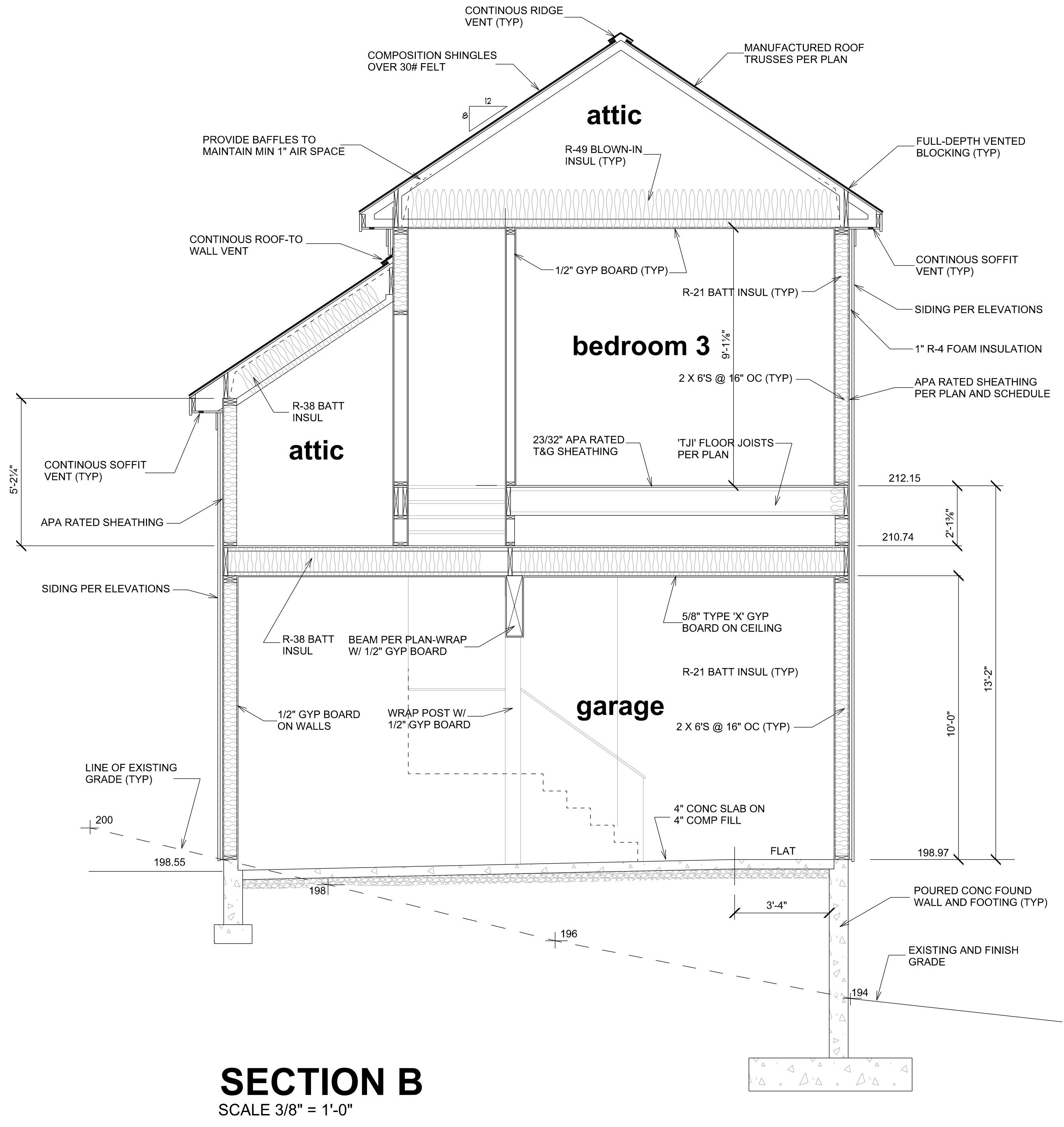
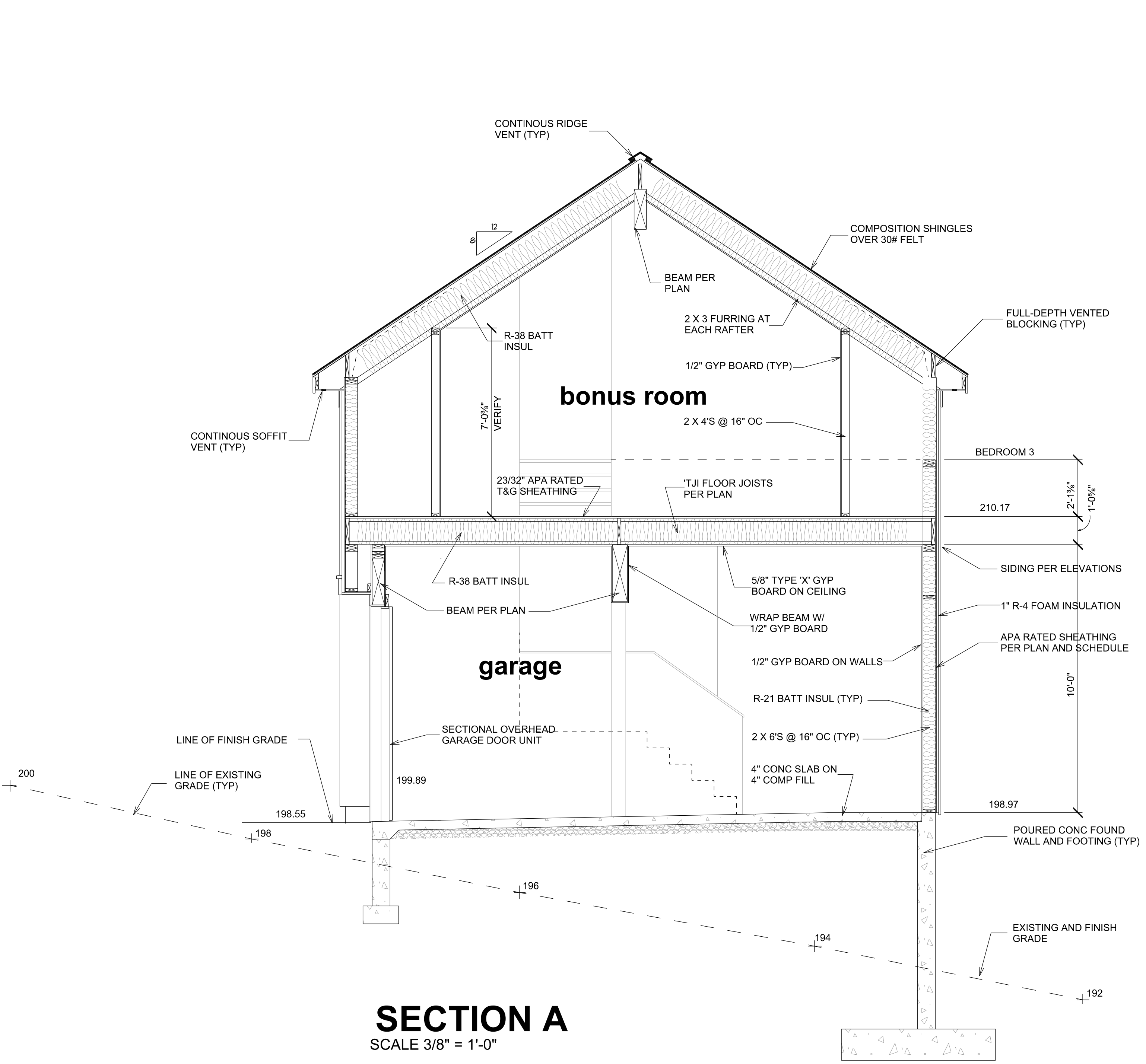
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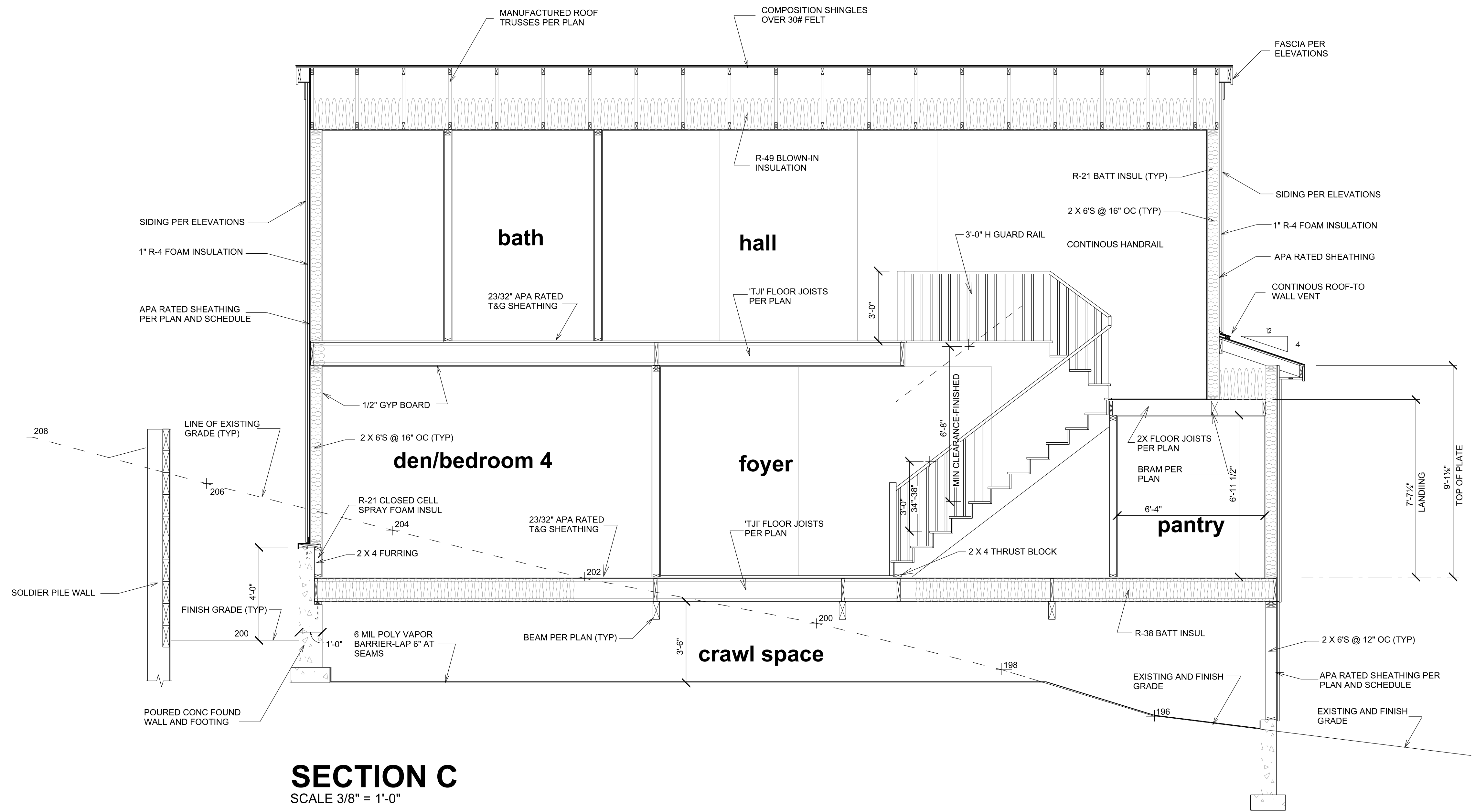
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SECTION C
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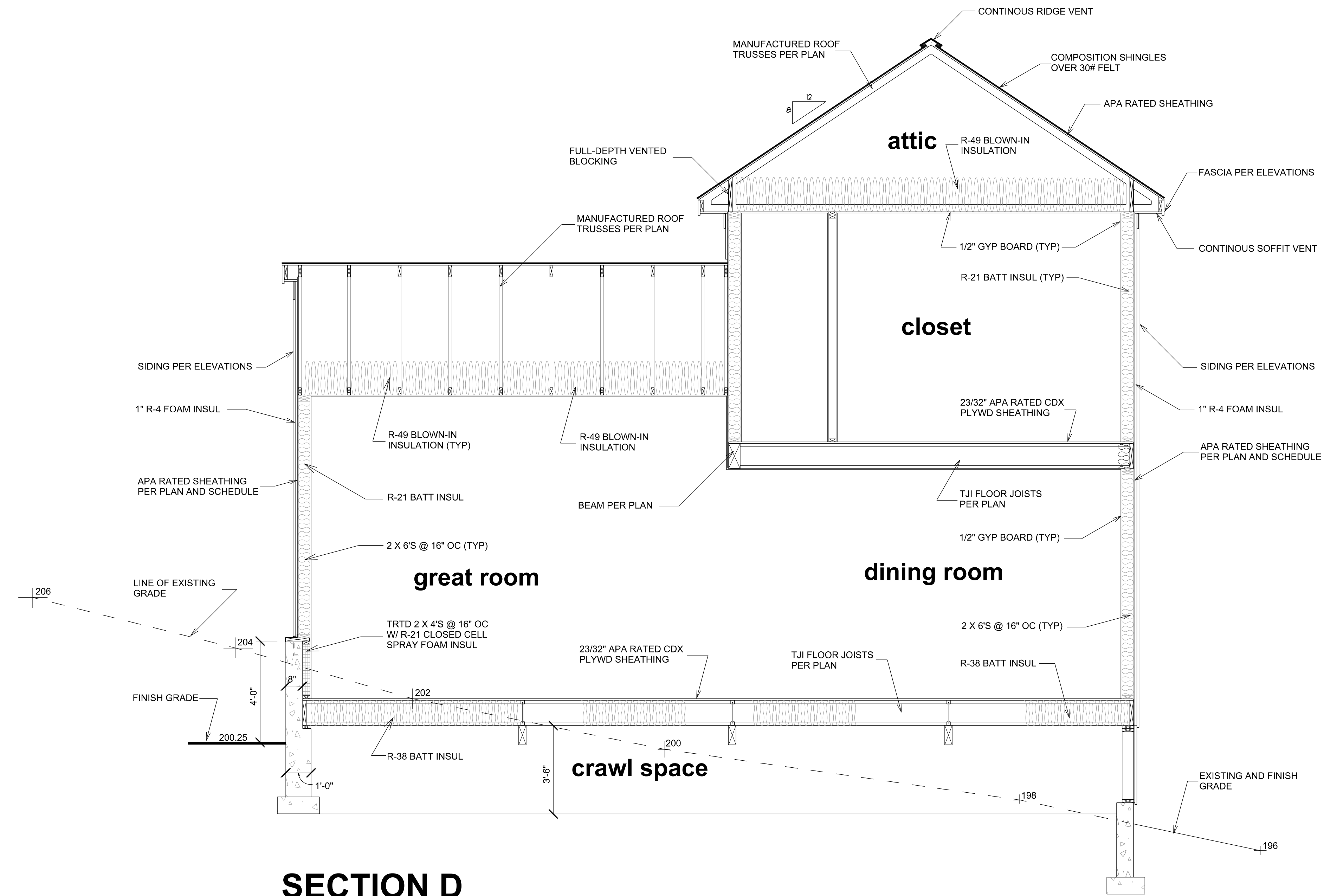
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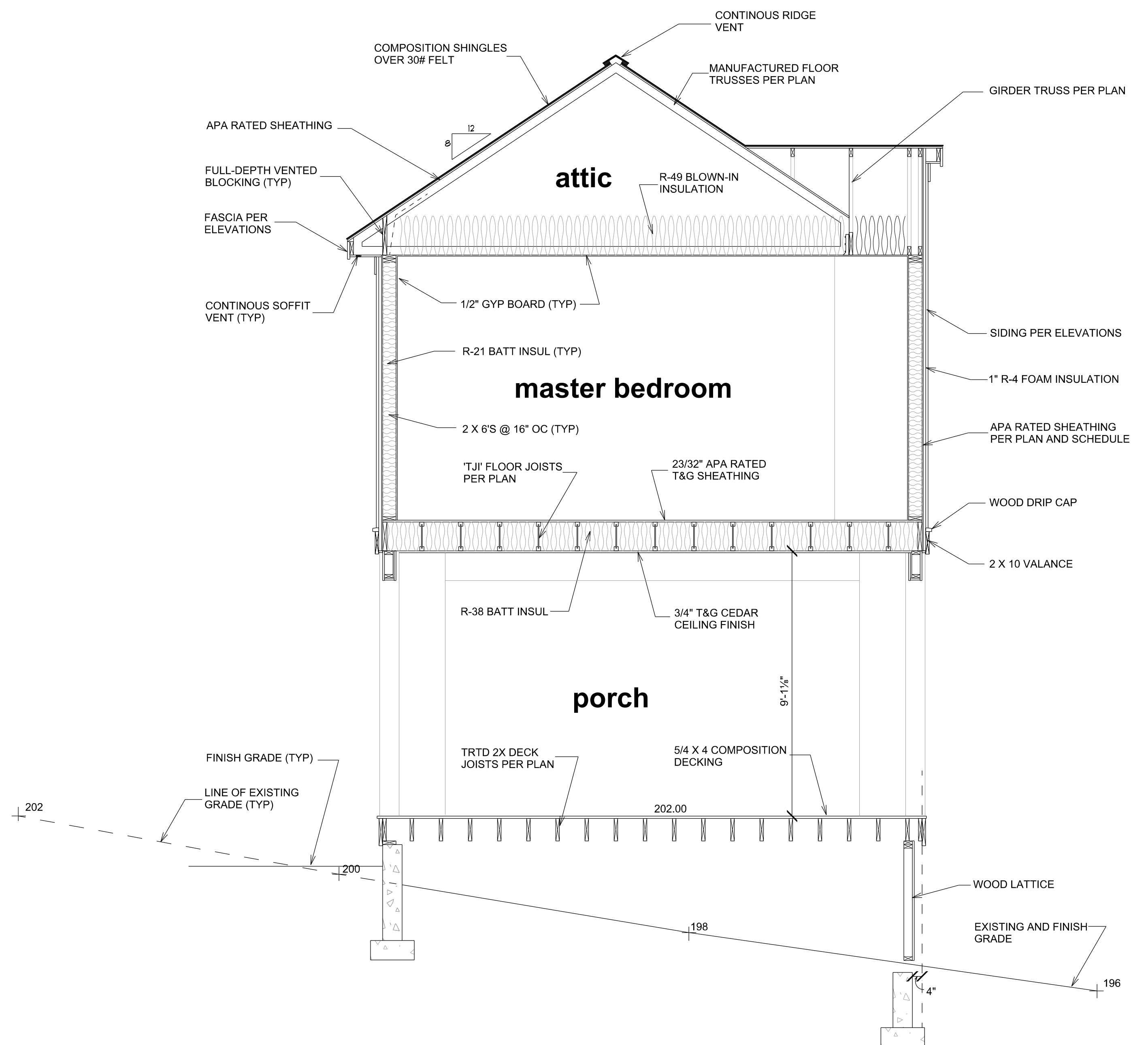
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SECTION E
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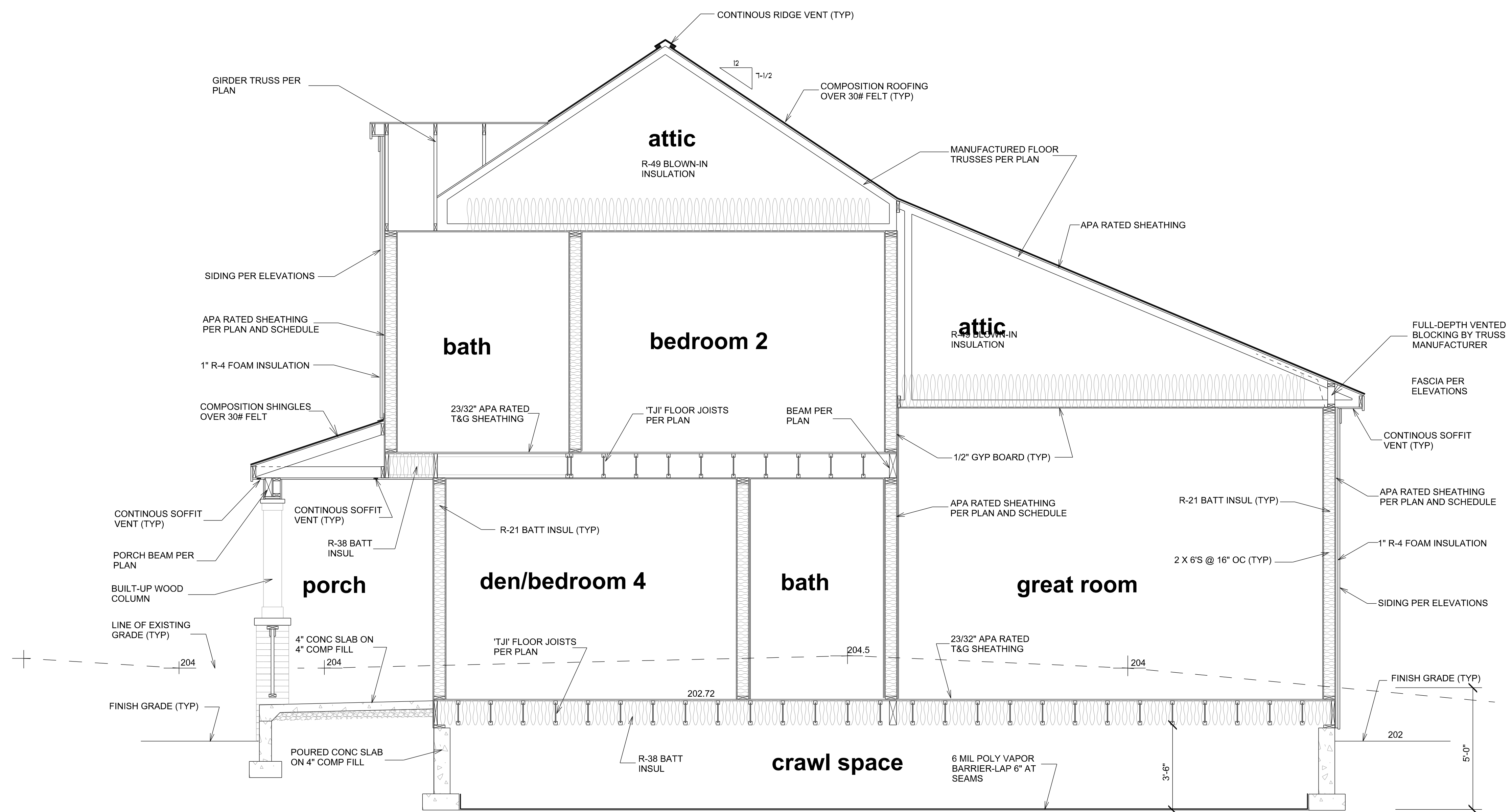
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SECTION F
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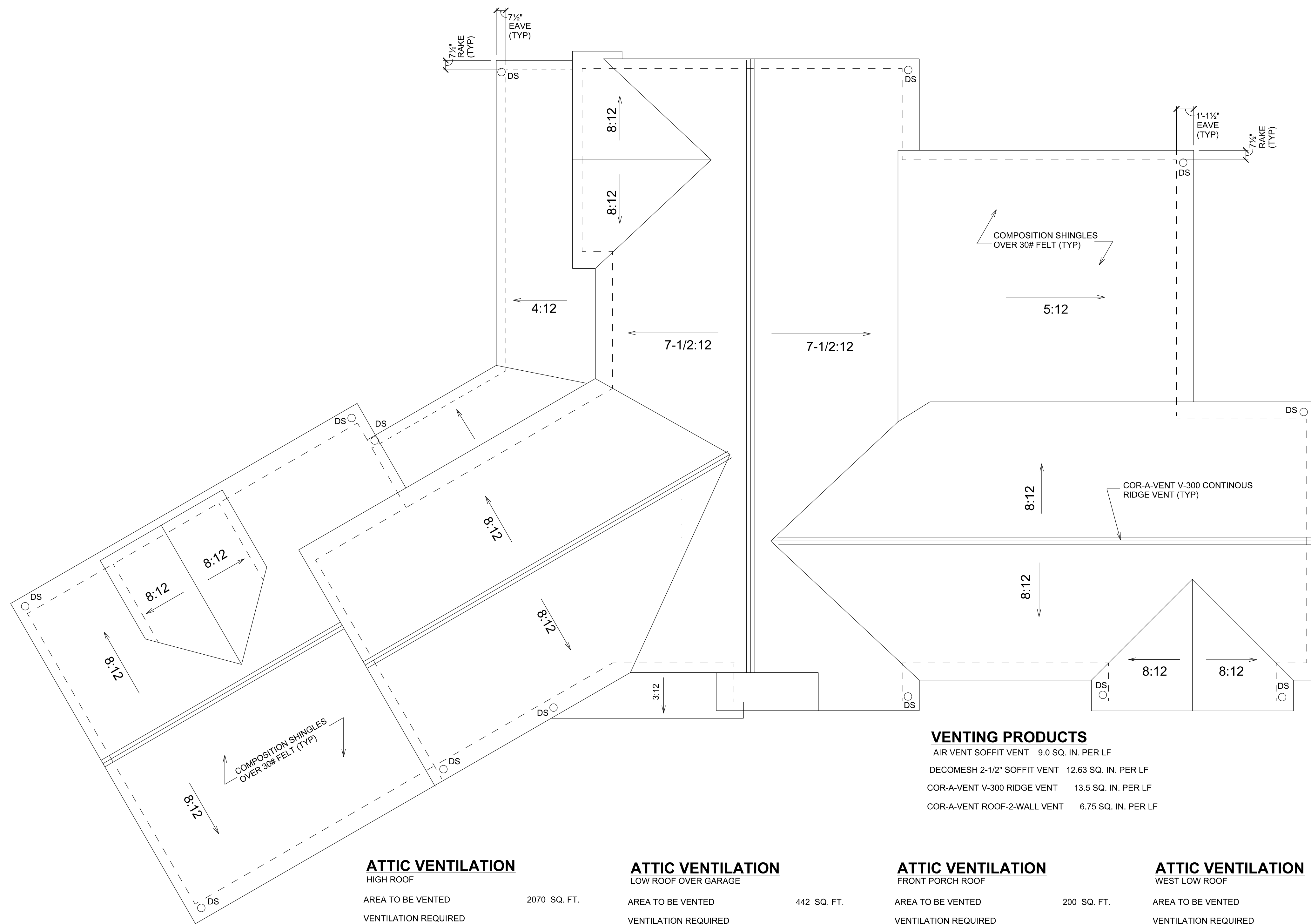
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ROOF PLAN
SCALE 1/4" = 1'-0"

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 LF	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.

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

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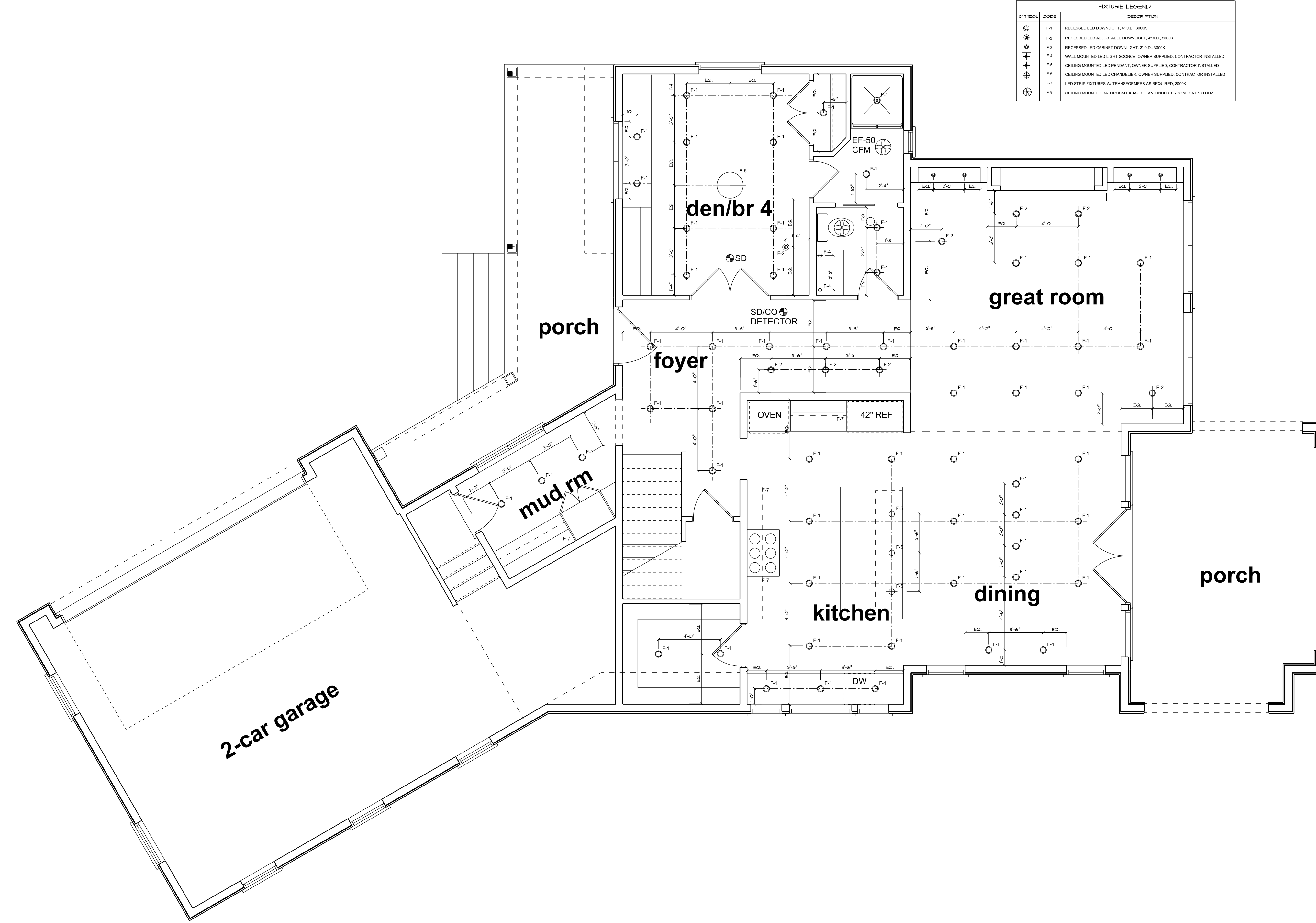
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MAIN LEVEL REFLECTED CEILING PLAN
SCALE 1/4" = 1'-0"

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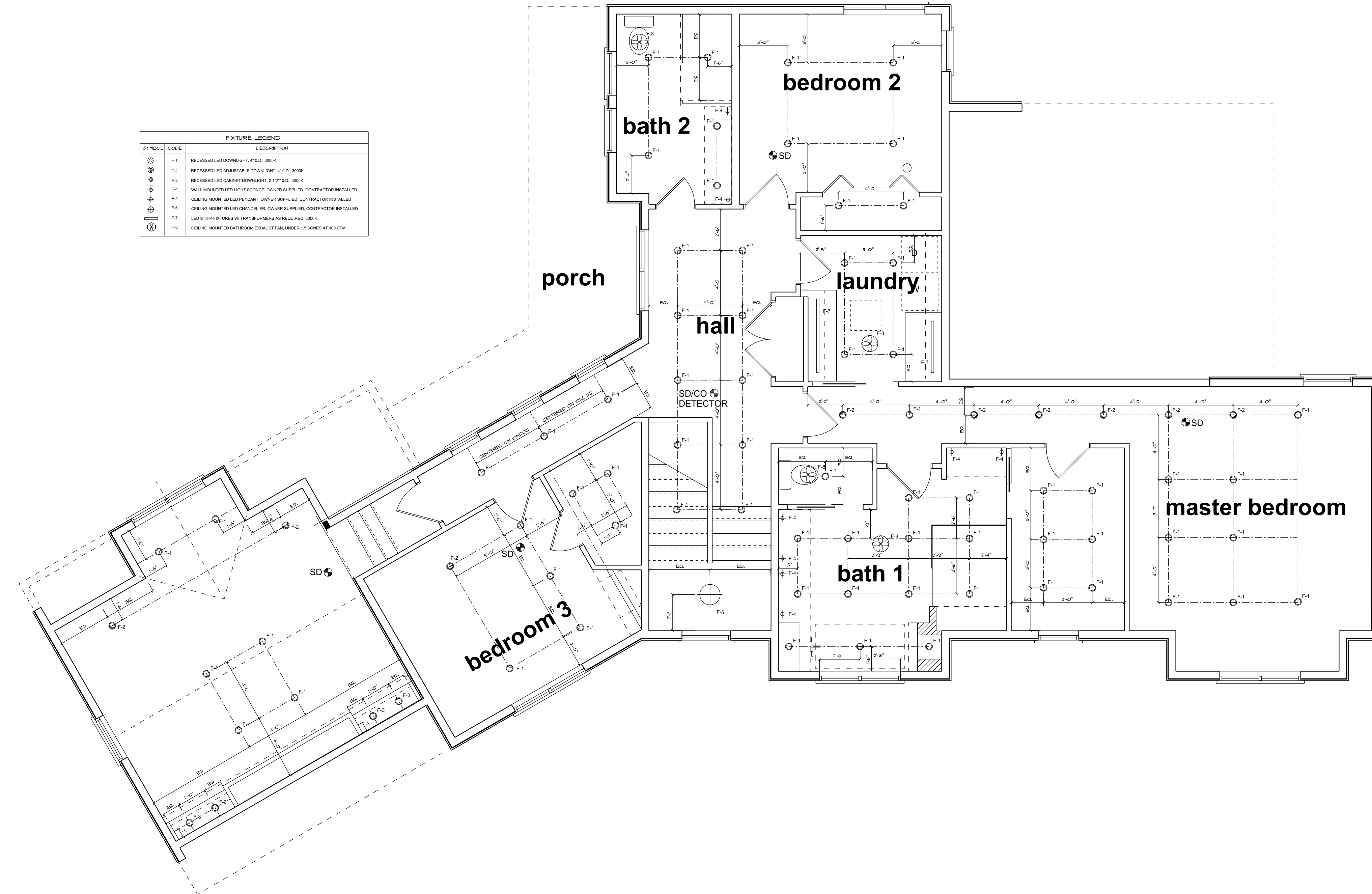
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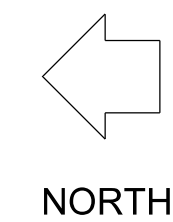
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FIXTURE LEGEND		
SYMBOL	CODE	DESCRIPTION
⊙	F-1	RECESSED LED DOWNLIGHT, 4" Ø, 300K
⊙	F-2	RECESSED LED ADJUSTABLE DOWNLIGHT, 4" Ø, 300K
⊙	F-3	RECESSED LED CABINET DOWNLIGHT, 2 1/2" Ø, 300K
⊙	F-4	WALL MOUNTED LED LIGHT SOURCE, OWNER SUPPLIED, CONTRACTOR INSTALLED
⊙	F-5	CEILING MOUNTED LED PENDANT, OWNER SUPPLIED, CONTRACTOR INSTALLED
⊙	F-6	CEILING MOUNTED LED CHANDELIER, OWNER SUPPLIED, CONTRACTOR INSTALLED
⊙	F-7	LED STRIP FIXTURES W/ TRANSFORMERS AS REQUIRED, 3000K
⊙	F-8	CEILING MOUNTED BATHROOM EXHAUST FAN, UNDER 1:6 SLOPE AT 100 CFM

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



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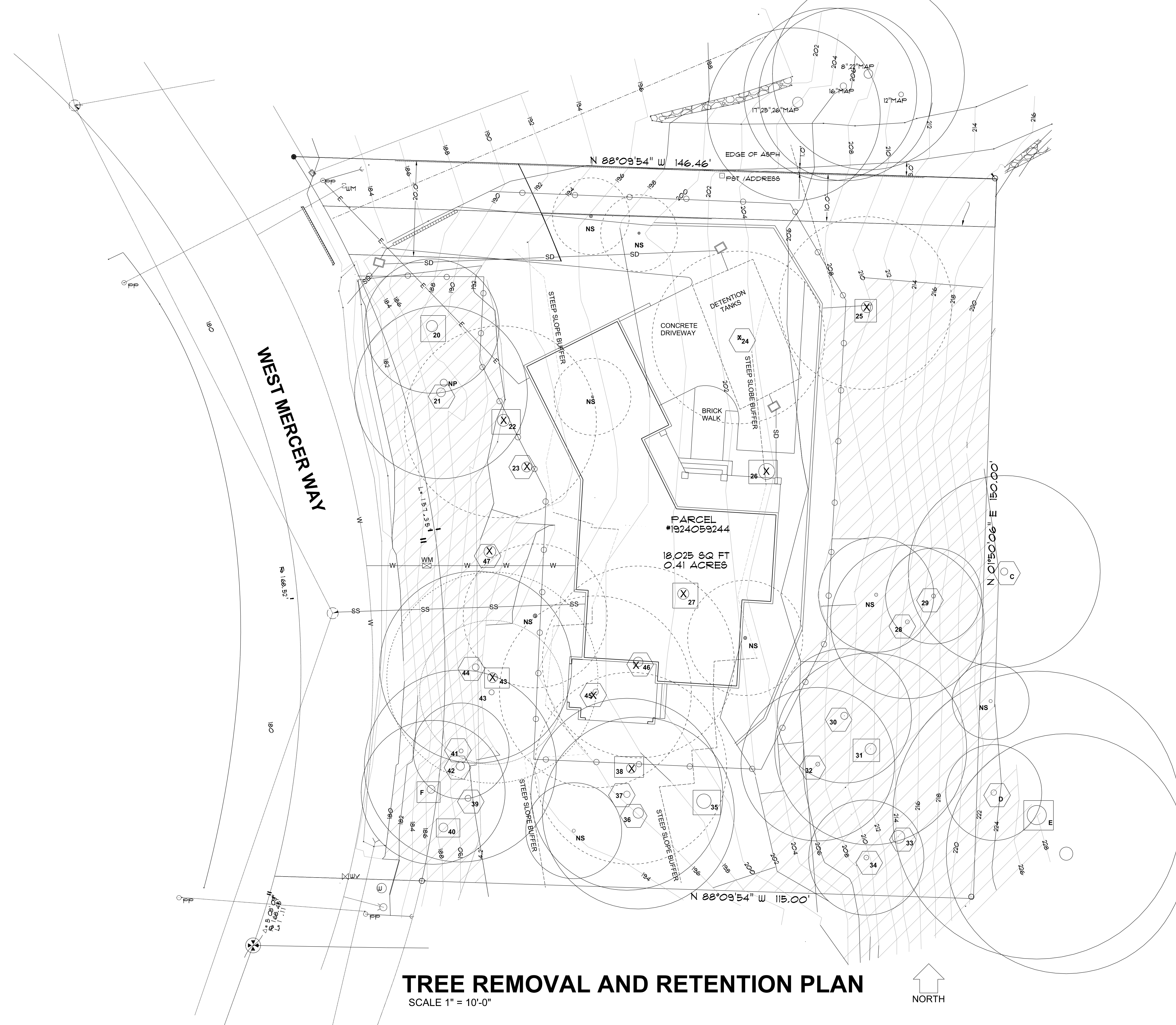
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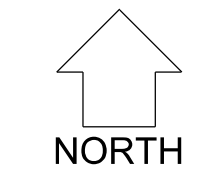
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TREE REMOVAL AND RETENTION PLAN
SCALE 1" = 10'-0"



- ASPHALT SURFACE
- BUILDING
- CENTERLINE ROW
- CULVERT PIPE
- DITCH (FLOWLINE)
- FIRE HYDRANT
- GUT ANCHOR
- CATCH BASIN (TYPE I)
- MONUMENT IN CASE (FOUND)
- POST
- POWER (OVERHEAD)
- POWER (FOUND)
- IRON PIPE (FOUND)
- REBAR 4 CAP (SET)
- ROCKERY
- SEWER LINE
- SEWER MANHOLE
- STORM DRAIN LINE
- TREE (AS NOTED)
- WATER MH
- 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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EDWARD & CATHERINE MORAN

MERCER ISLAND, WA 98040
WEST MERCER WAY

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STRUCTURAL NOTES

- CODE: IRC, 2018 EDITION.
- LOADS:
ROOFL.L.25 P&F (SNOW)
SEISMIC: SITE CLASS = D
S_s = 1.274g
S₁ = 0.425g
S_{0.1} = 0.849g
S_{0.01} = 0.445g
R = 6.5 (WOOD SHEAR WALL)
WIND: 110 M.P.H. (EXPOSURE "B"); I_w=1.0
SOIL BEARING: 1500 P&F (ASSUMED). BOTTOM OF ALL FOUNDATION SHALL BE MINIMUM OF 18" BELOW GRADE.
- CONCRETE:
F_c = 2500 P&F
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 P&F) UNLESS OTHERWISE NOTED ON THE DRAWINGS. LAP ALL CONTINUOUS REINFORCING BARS 48 BAR DIAMETERS 2'-0" MINIMUM, UNLESS NOTED OTHERWISE. PROVIDE CORNER BARS (2'-0" BEND) FOR ALL HORIZONTAL REINFORCEMENT. DETAIL 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 P&F) 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 KUIK 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
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 "WUPA 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 BEARING 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.4G. PLYWOOD, INDEX 48/24.
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 P&F, f_v=165 P&F) 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 P&F (SNOW)
DEAD LOAD = 15 P&F
TOTAL LOAD DEFLECTION = L/240
LIVE LOAD DEFLECTION = L/360
FLOOR TRUSS LOADING:
LIVE LOAD = 40 P&F
DEAD LOAD = 15 P&F TOTAL LOAD DEFLECTION = L/240

- 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 AND DIAPHRAGM NAILING, STRAPS AND HOLD-DOWNS; AND
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. 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" 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

1	2	3	4
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DRAWN BY: _____
CHECKED BY: A.G.
DATE: 11-30-2021

PHONE: 425-351-6589
BELLEVUE, WA 98008

K/A, C/O
CONSULTING STRUCTURAL ENGINEERS

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

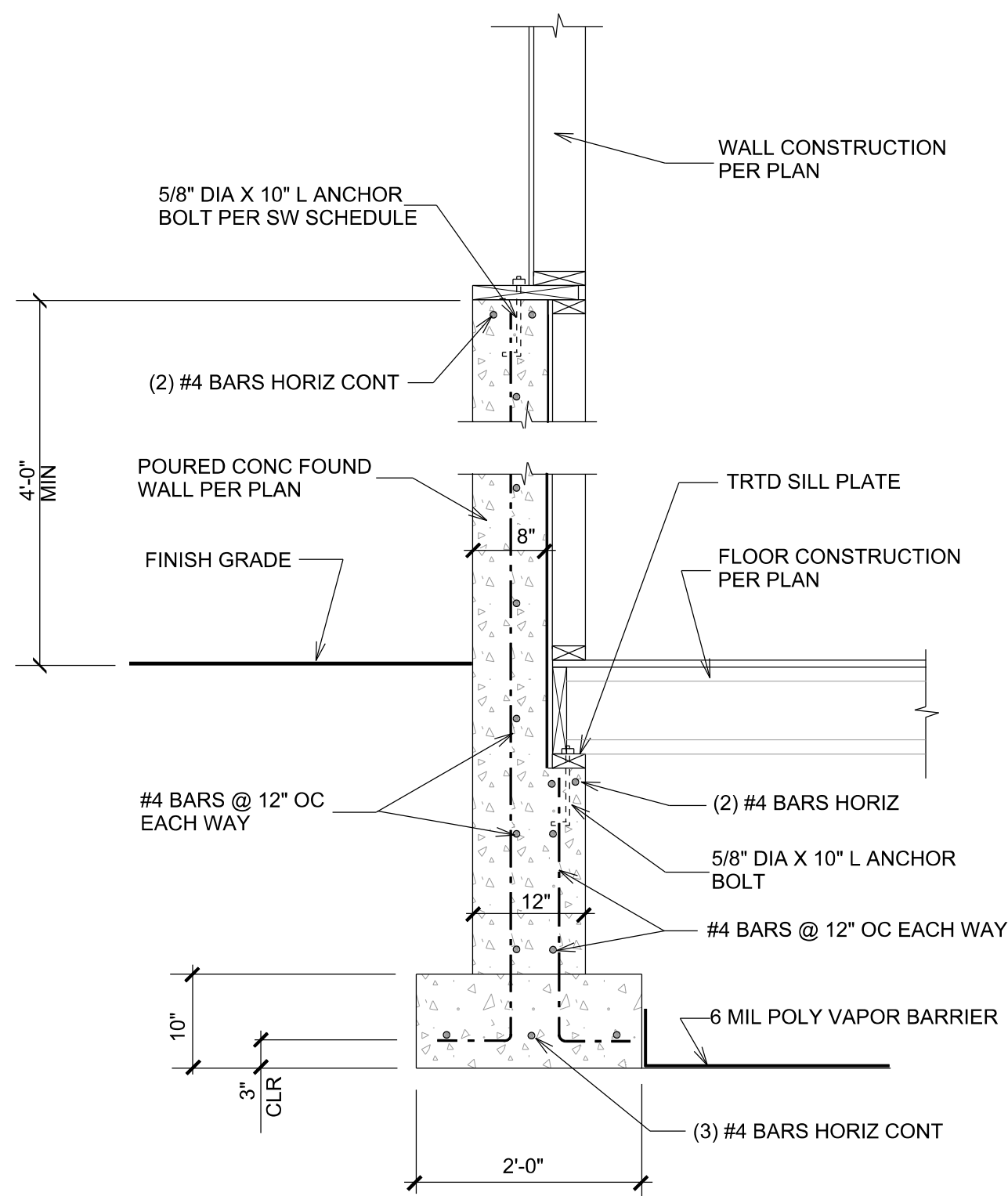
STRUCTURAL NOTES

SHEET
S-1
OF
-

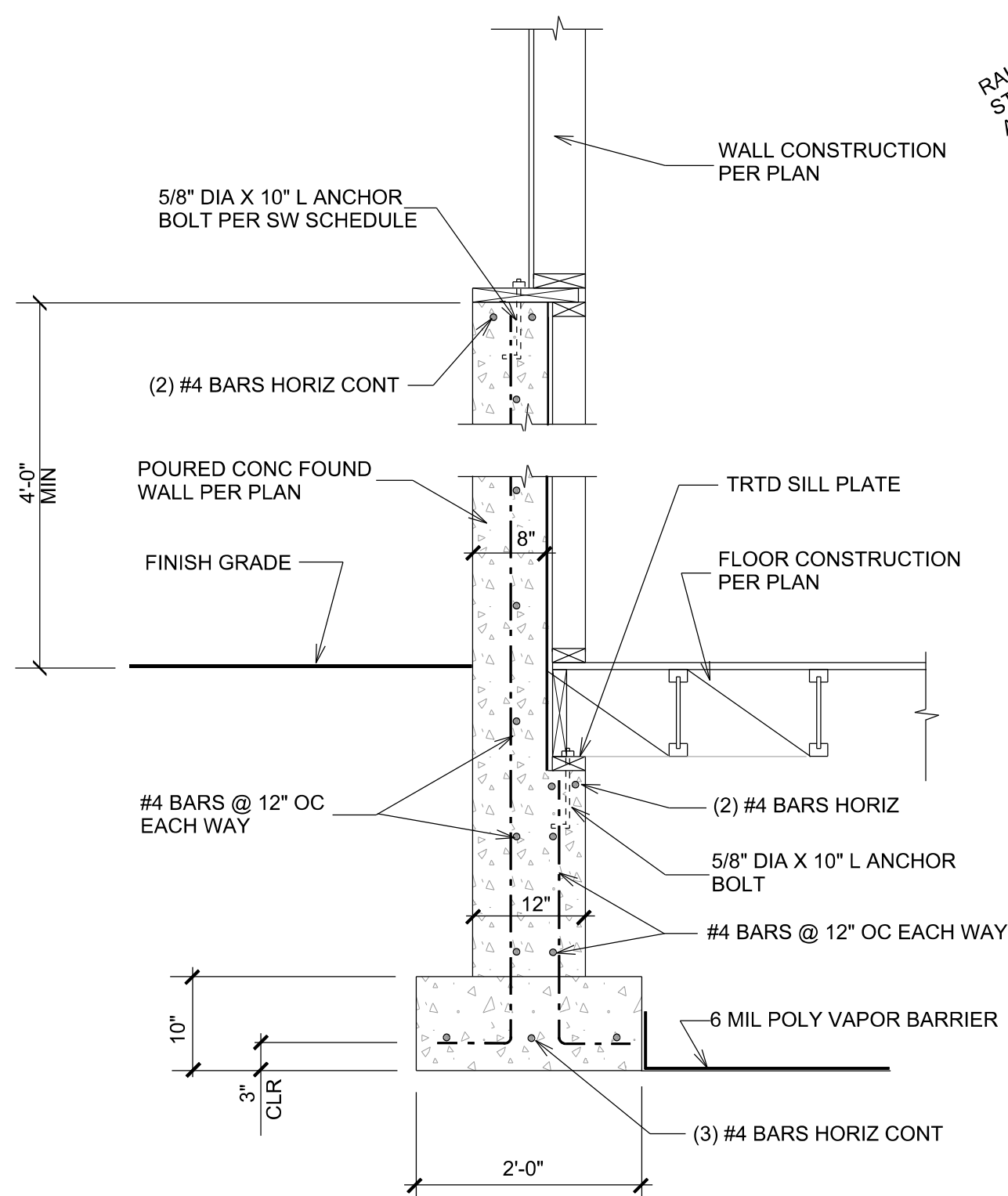
JOB #

FOUNDATION NOTES

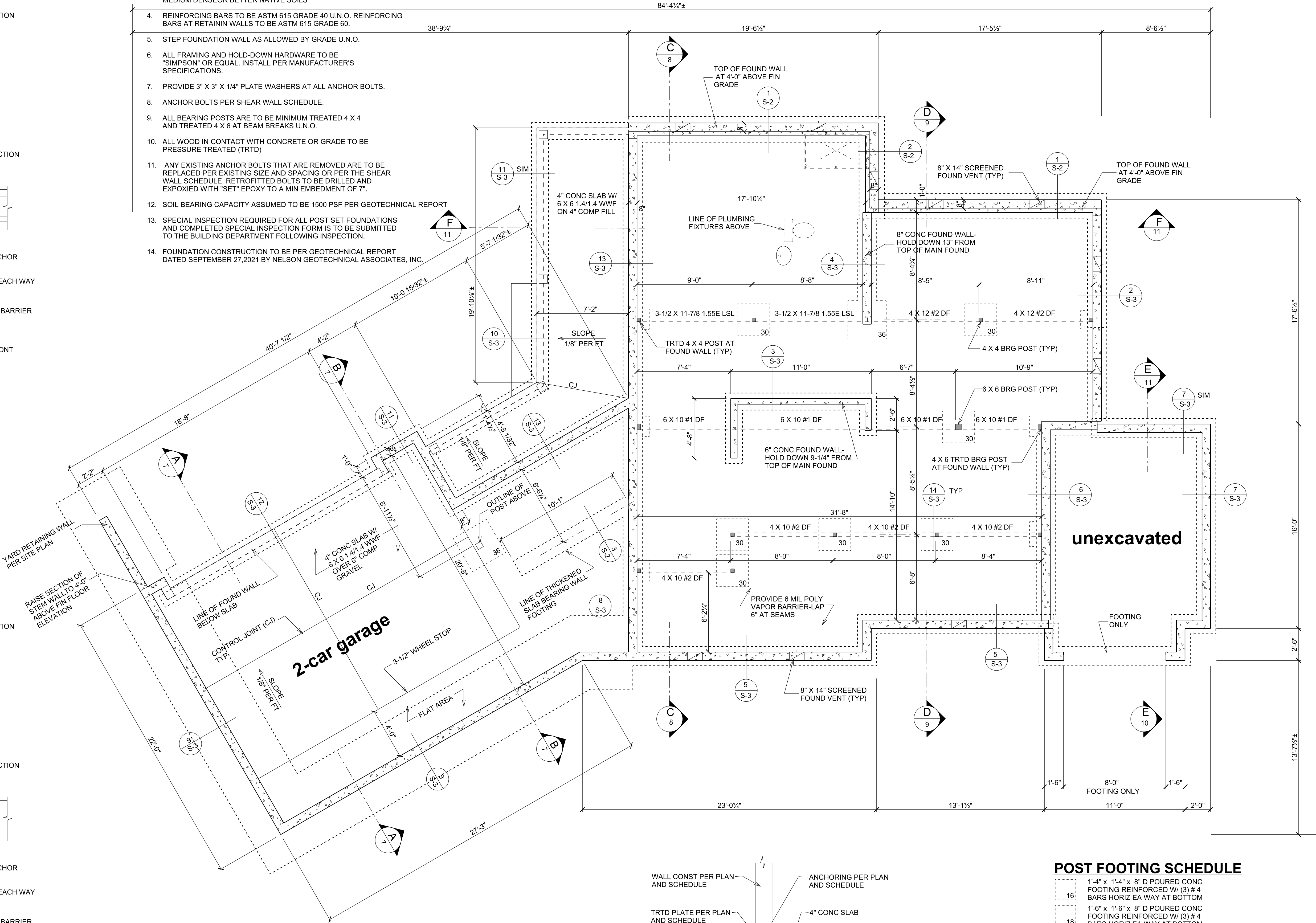
1. VERIFY ALL EXISTING CONDITIONS BEFORE PROCEEDING WITH THE WORK.
2. CONCRETE STRENGTH TO BE 2500 PSI AT 28 DAYS. CONCRETE STRENGTH AT RETAINING WALLS TO BE 3000 PSI AT 28 DAYS.
3. FOOTINGS TO BEAR MIN 18" BELOW FINISH GRADE ON MEDIUM DENSE OR BETTER NATIVE SOILS.
4. REINFORCING BARS TO BE ASTM 615 GRADE 40 U.N.O. REINFORCING BARS AT RETAINING WALLS TO BE ASTM 615 GRADE 60.
5. STEP FOUNDATION WALL AS ALLOWED BY GRADE U.N.O.
6. ALL FRAMING AND HOLD-DOWN HARDWARE TO BE "SIMPSON" OR EQUAL. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
7. PROVIDE 3" X 3" X 1/4" PLATE WASHERS AT ALL ANCHOR BOLTS.
8. ANCHOR BOLTS PER SHEAR WALL SCHEDULE.
9. ALL BEARING POSTS ARE TO BE MINIMUM TREATED 4 X 4 AND TREATED 4 X 6 AT BEAM BREAKS U.N.O.
10. ALL WOOD IN CONTACT WITH CONCRETE OR GRADE TO BE PRESSURE TREATED (TRTD)
11. ANY EXISTING ANCHOR BOLTS THAT ARE REMOVED ARE TO BE REPLACED PER EXISTING SIZE AND SPACING OR PER THE SHEAR WALL SCHEDULE. RETROFITTED BOLTS TO BE DRILLED AND EXPOXIED WITH "SET" EPOXY TO A MIN EMBEDMENT OF 7".
12. SOIL BEARING CAPACITY ASSUMED TO BE 1500 PSF PER GEOTECHNICAL REPORT
13. SPECIAL INSPECTION REQUIRED FOR ALL POST SET FOUNDATIONS AND COMPLETED SPECIAL INSPECTION FORM IS TO BE SUBMITTED TO THE BUILDING DEPARTMENT FOLLOWING INSPECTION.
14. FOUNDATION CONSTRUCTION TO BE PER GEOTECHNICAL REPORT DATED SEPTEMBER 27, 2021 BY NELSON GEOTECHNICAL ASSOCIATES, INC.



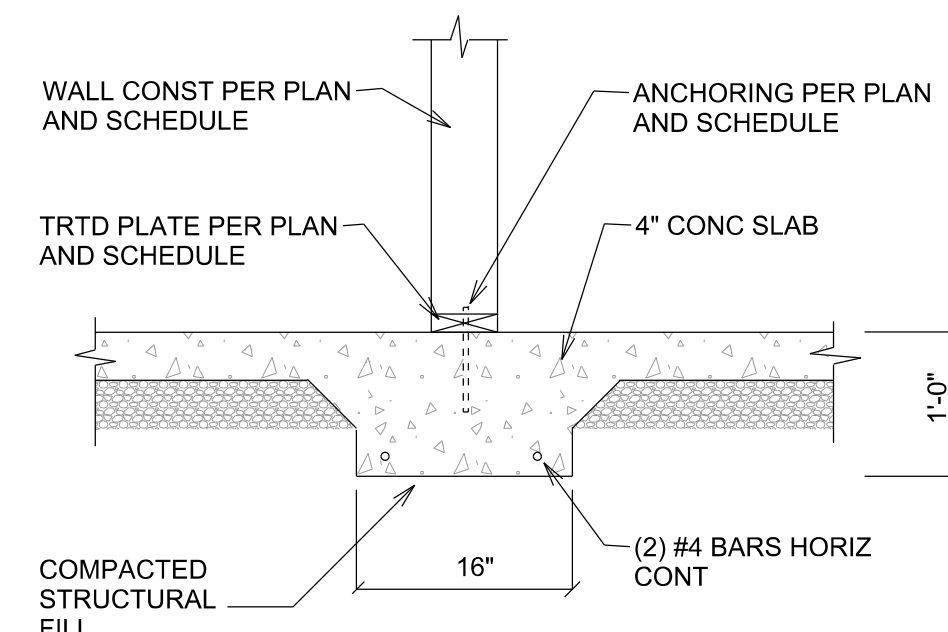
DETAIL 1
SCALE 3/4" = 1'-0"



DETAIL 2
SCALE 3/4" = 1'-0"



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



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

POST FOOTING SCHEDULE

16	1'-4" x 1'-4" x 8" D POURED CONC FOOTING REINFORCED W/ (3) #4 BARS HORIZ EA WAY AT BOTTOM
18	1'-6" x 1'-6" x 8" D POURED CONC FOOTING REINFORCED W/ (3) #4 BARS HORIZ EA WAY AT BOTTOM
24	2'-0" x 2'-0" x 8" D POURED CONC FOOTING REINFORCED W/ (3) #4 BARS HORIZ EA WAY AT BOTTOM
30	2'-6" x 2'-6" x 10" D POURED CONC FOOTING REINFORCED W/ (4) #4 BARS HORIZ EA WAY AT BOTTOM
36	3'-0" x 3'-0" x 1'-0" D POURED CONC FOOTING REINFORCED W/ (4) #4 BARS HORIZ EA WAY AT BOTTOM
48	4'-0" x 4'-0" x 1'-0" D POURED CONC FOOTING REINFORCED W/ (5) #4 BARS HORIZ EA WAY AT BOTTOM
54	4'-6" x 4'-6" x 1'-0" D POURED CONC FOOTING REINFORCED W/ (6) #4 BARS HORIZ EA WAY AT BOTTOM

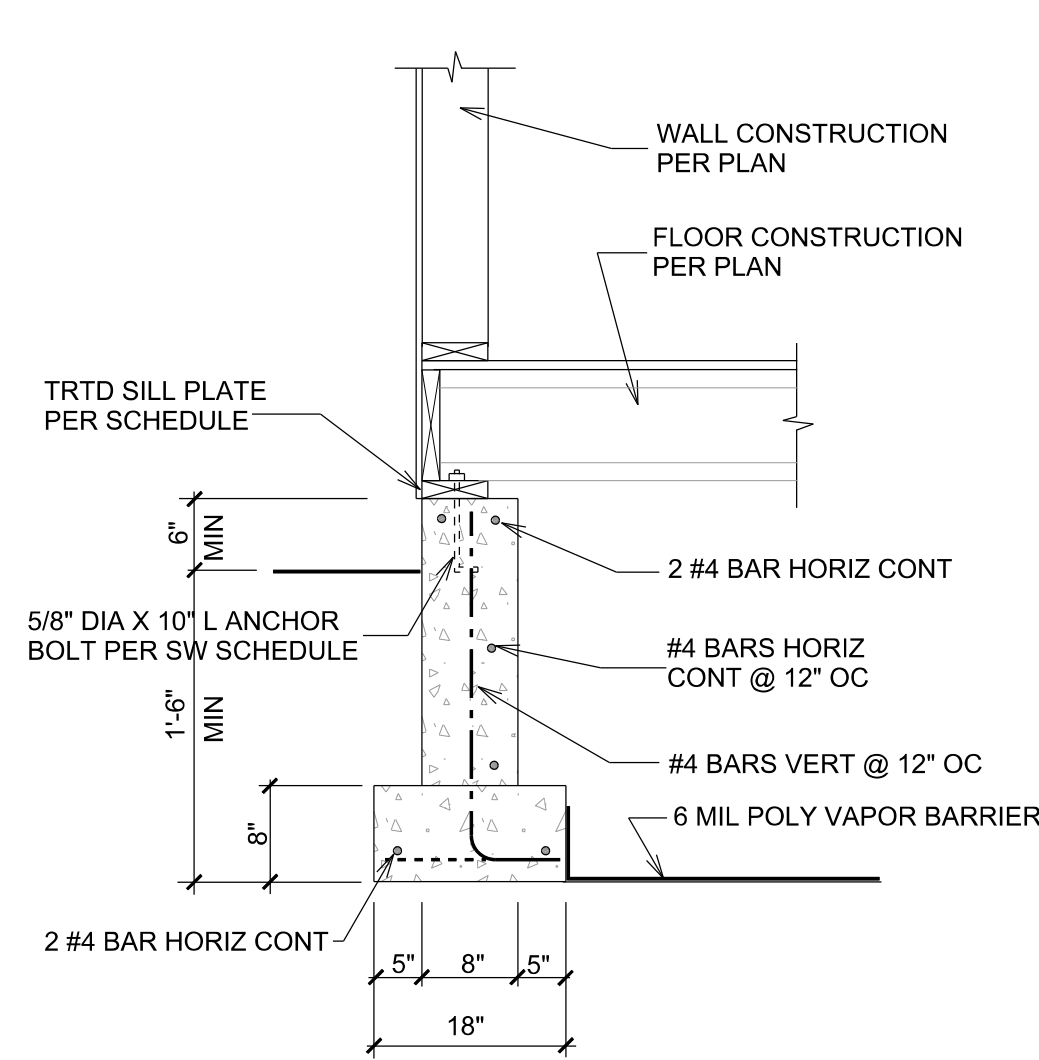


REVISION EDITION	1	2	3	4
DRAWN BY:				
CHECKED BY: A.G.				
DATE: 11-30-2021				

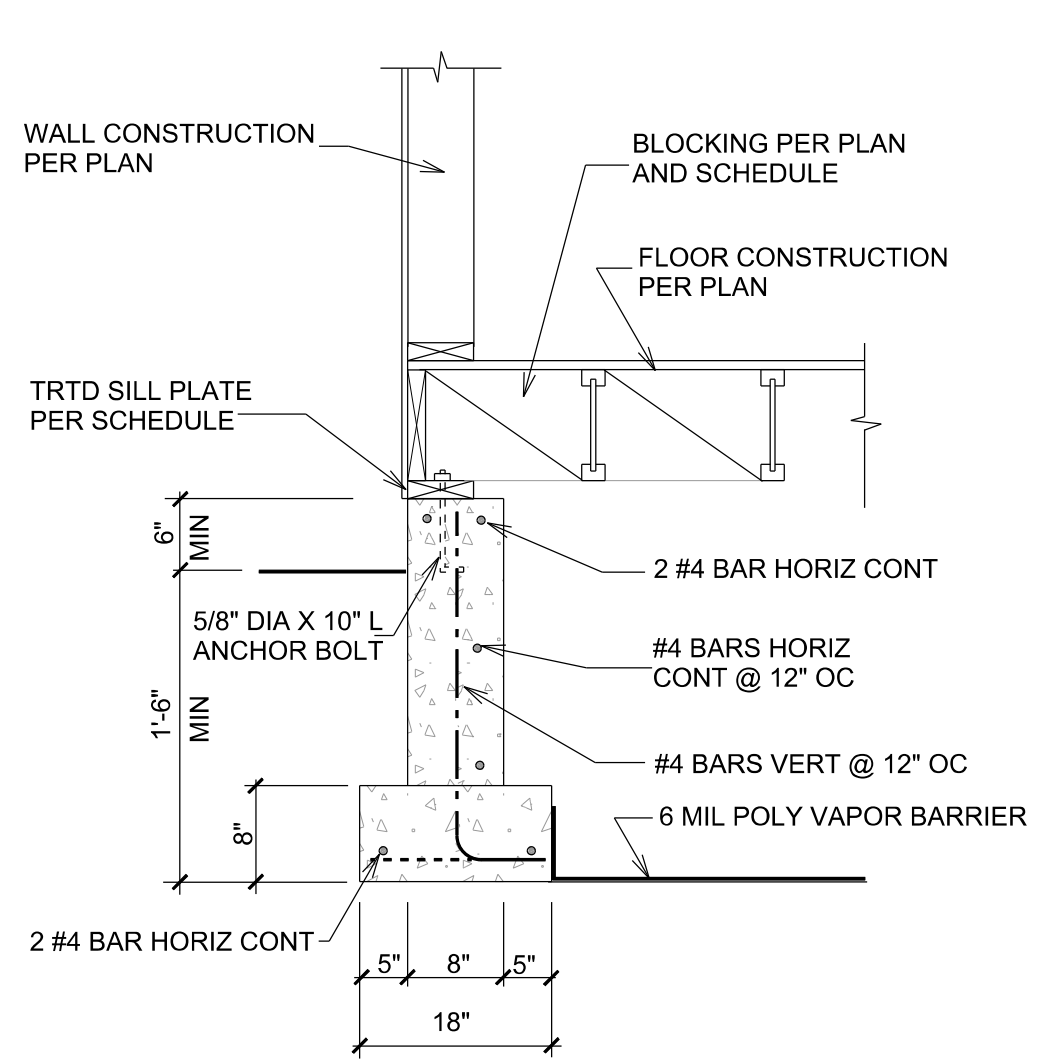
PROPOSED NEW RESIDENCE
EDWARD & CATHERINE MORAN
5000 WEST MERCER WAY
MERCER ISLAND, WA 98040

FOUNDATION PLAN

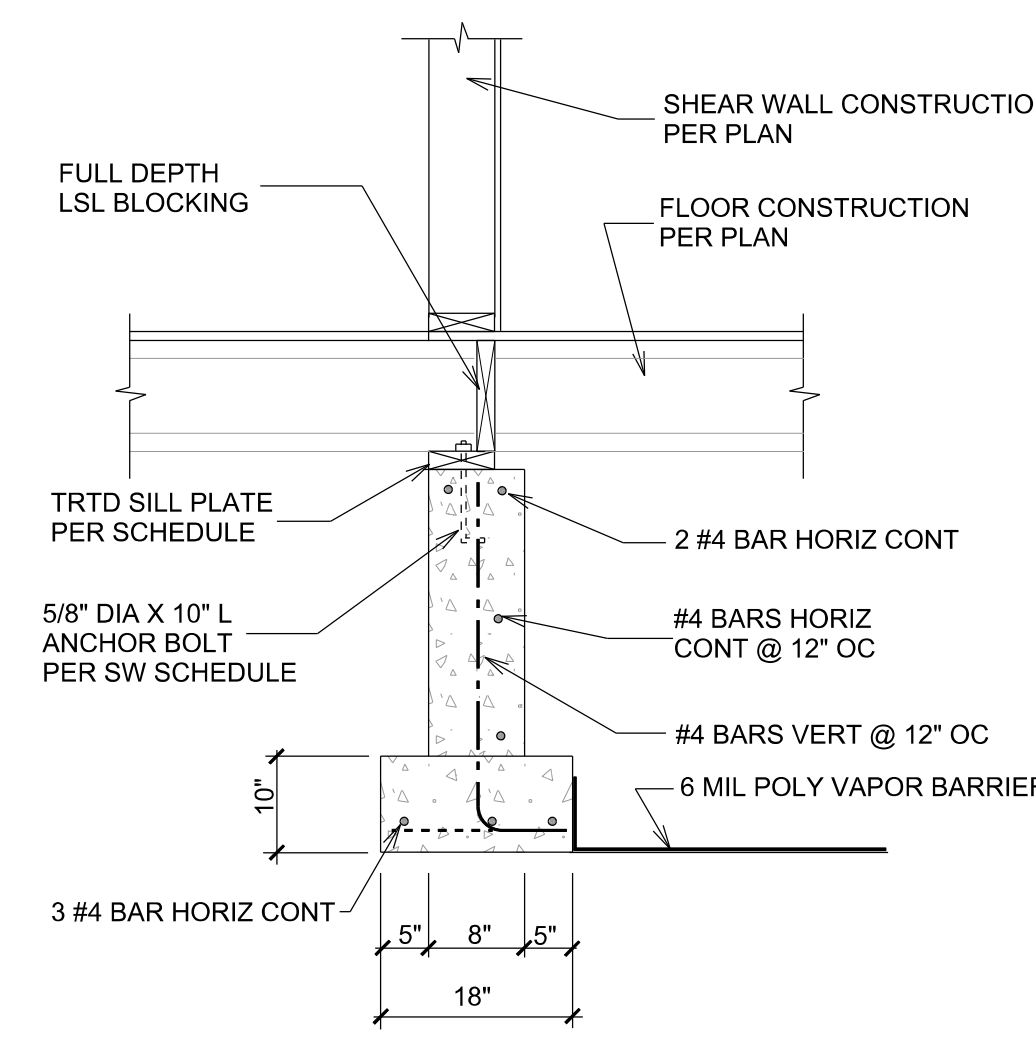
SHEET	S-2
OF	1
JOB #	



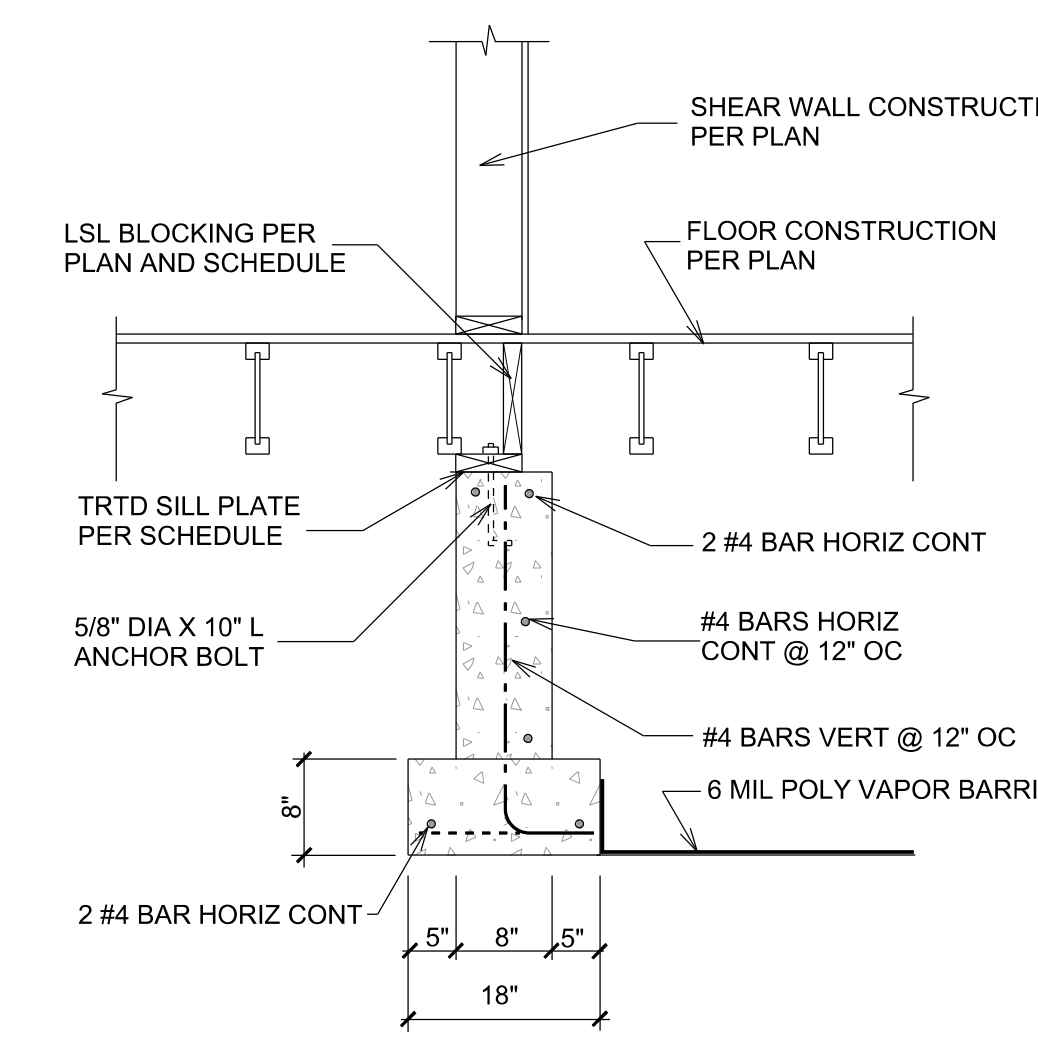
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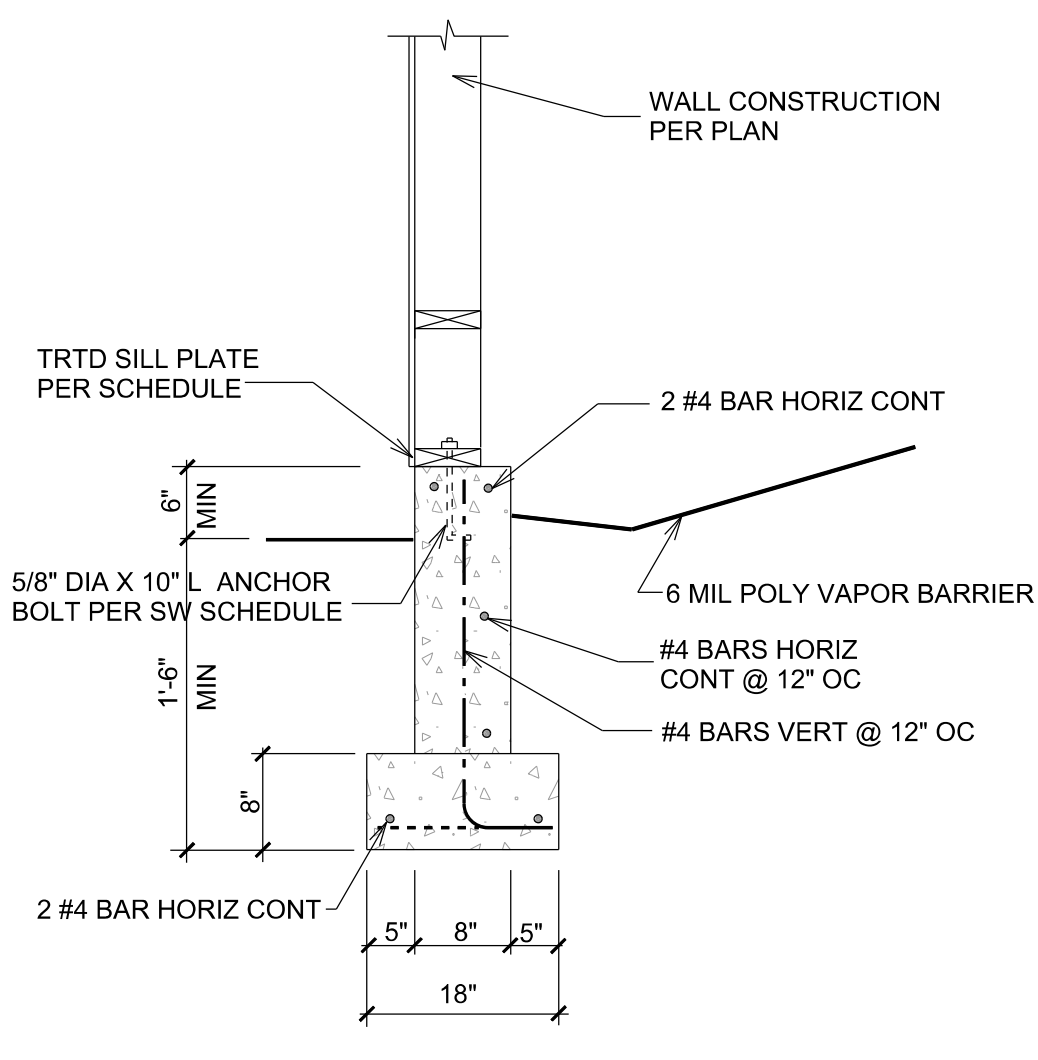
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SCALE 3/4" = 1'-0"



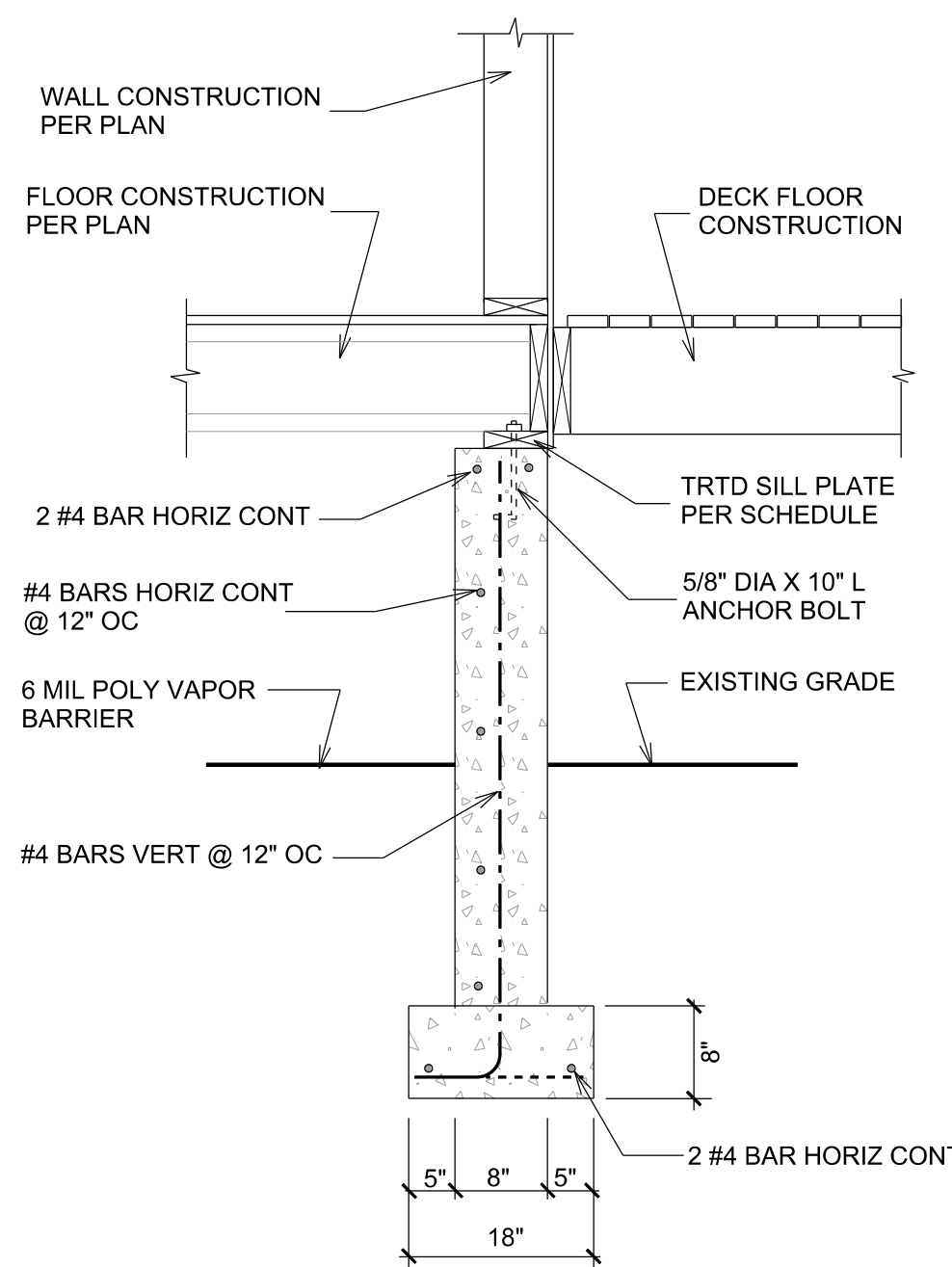
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SCALE 3/4" = 1'-0"



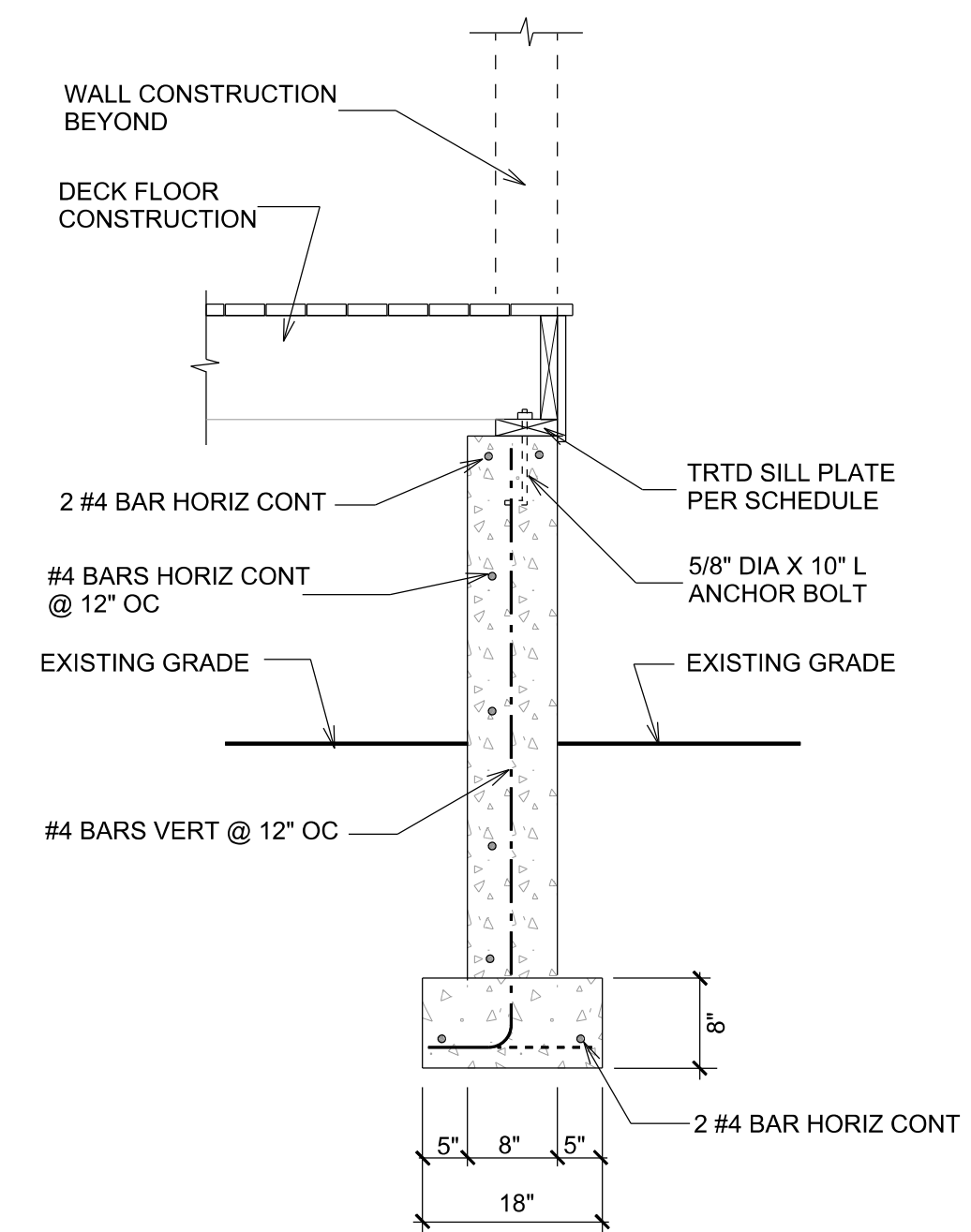
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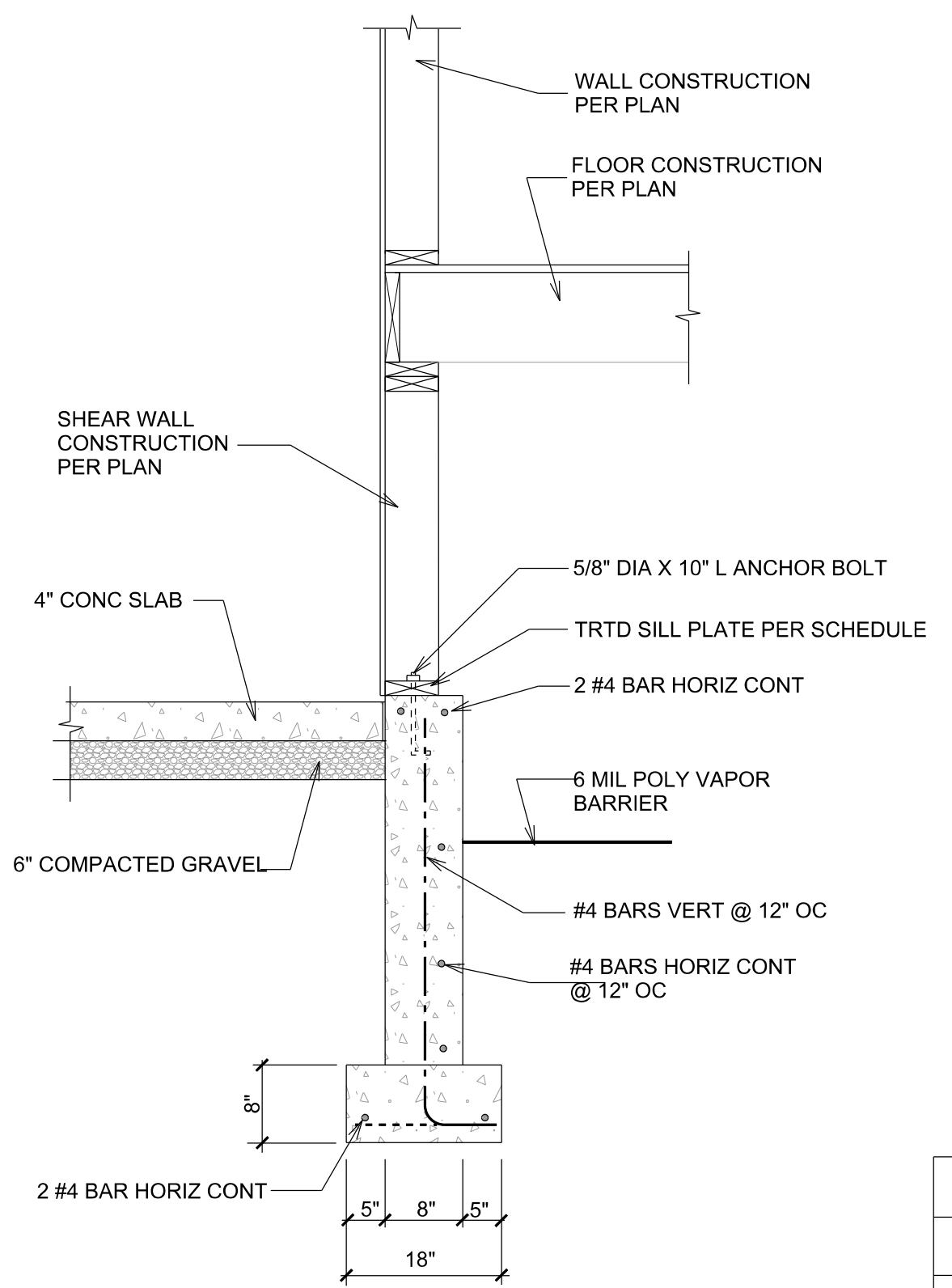
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SCALE 3/4" = 1'-0"



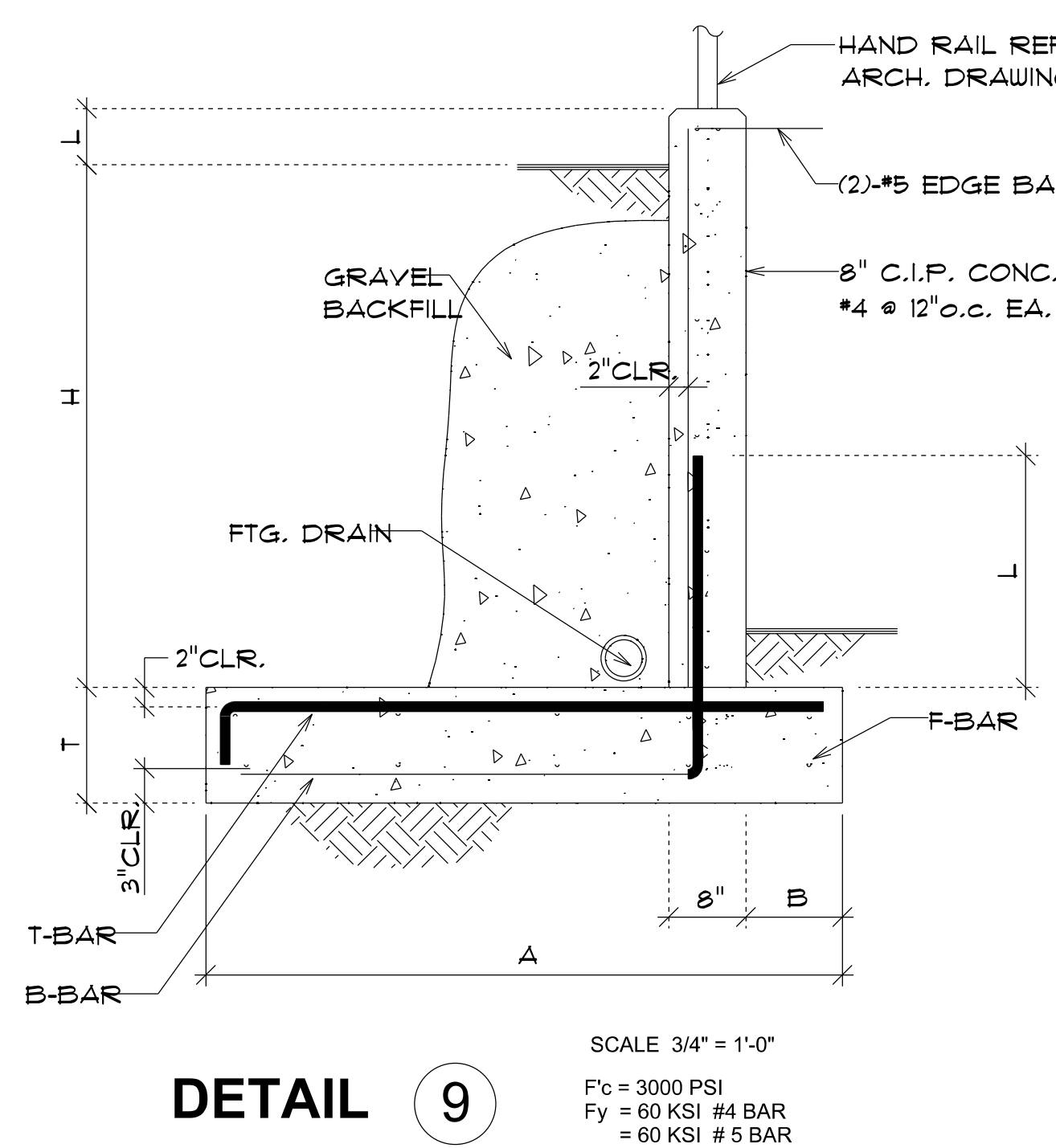
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SCALE 3/4" = 1'-0"



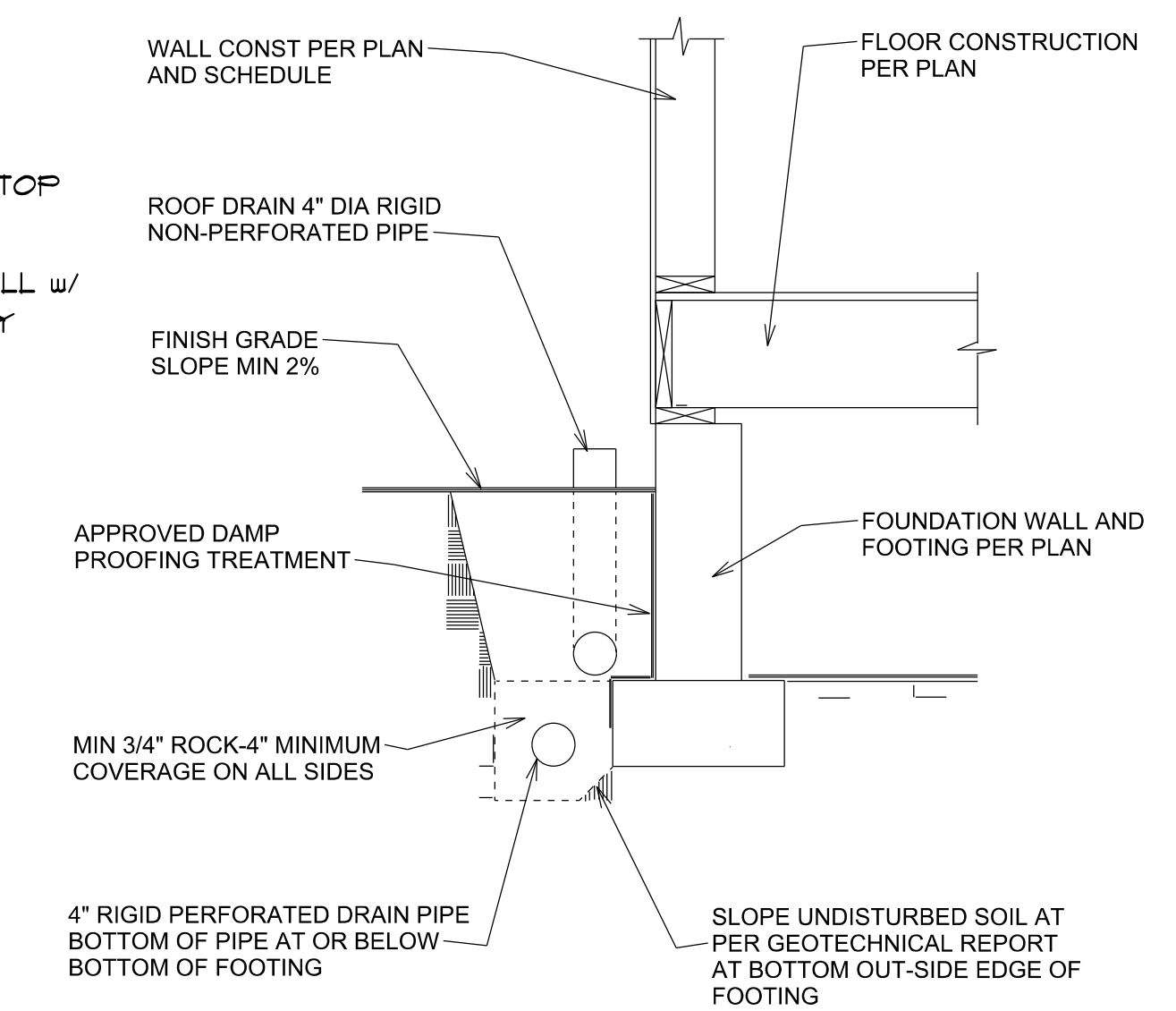
DETAIL 7
SCALE 3/4" = 1'-0"



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

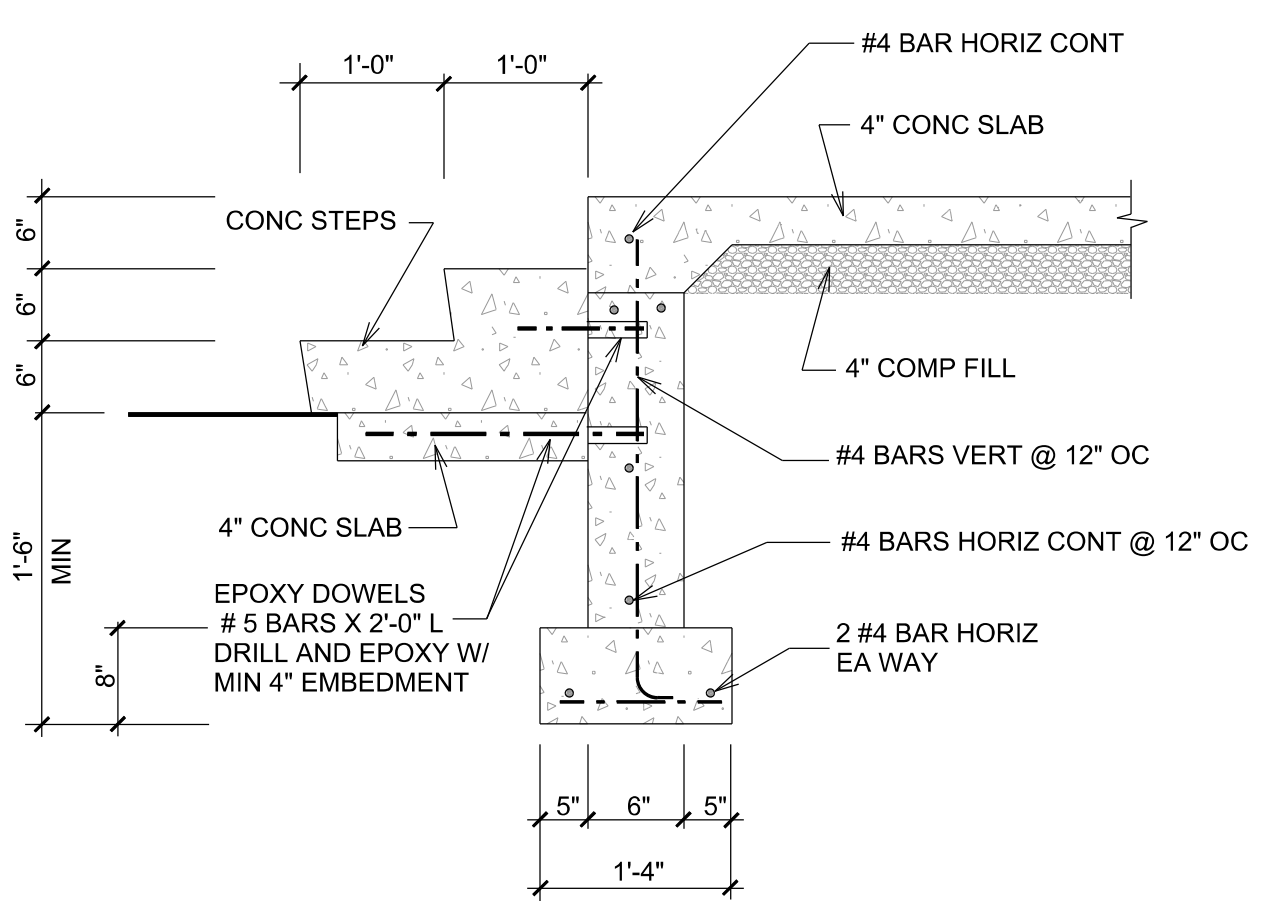


DETAIL 9
SCALE 3/4" = 1'-0"
F_c = 3000 PSI
F_y = 60 KSI #4 BAR
= 60 KSI #5 BAR

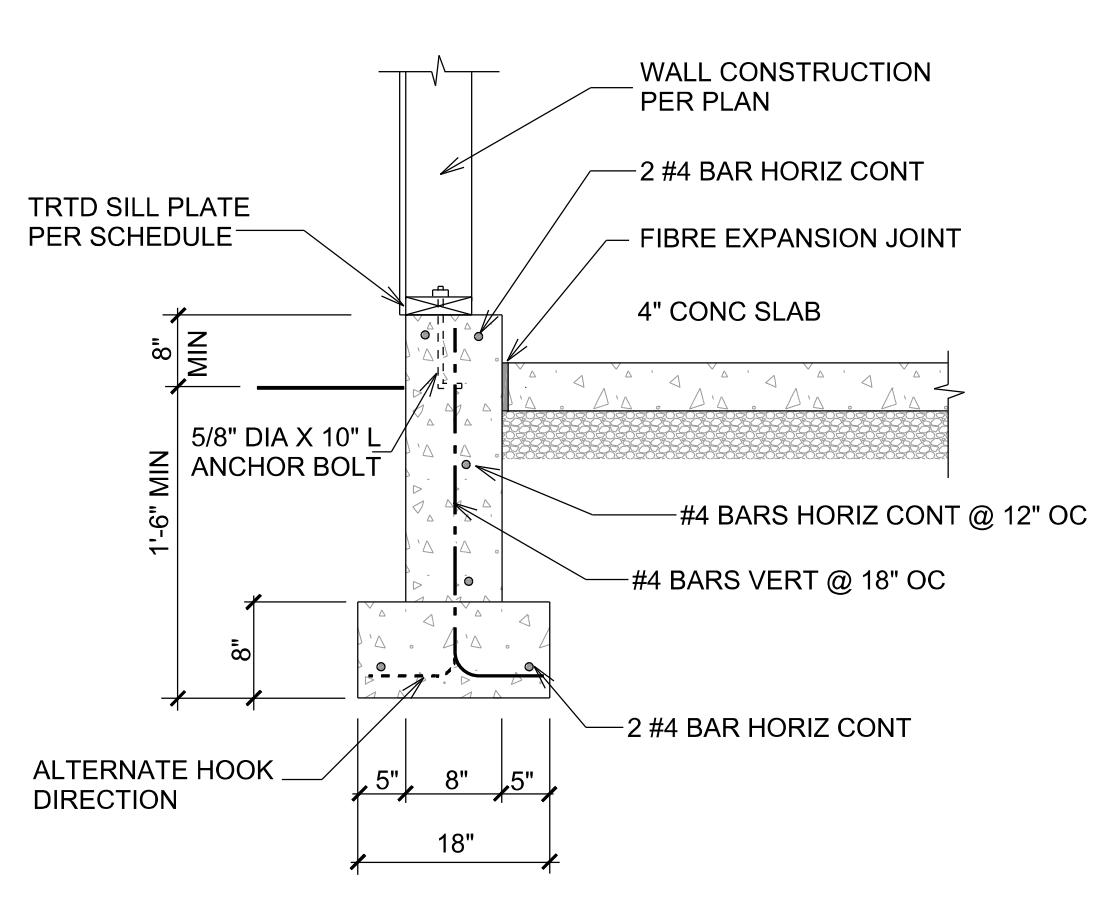


TYPICAL DRAINAGE DETAIL
SCALE 3/4" = 1'-0"

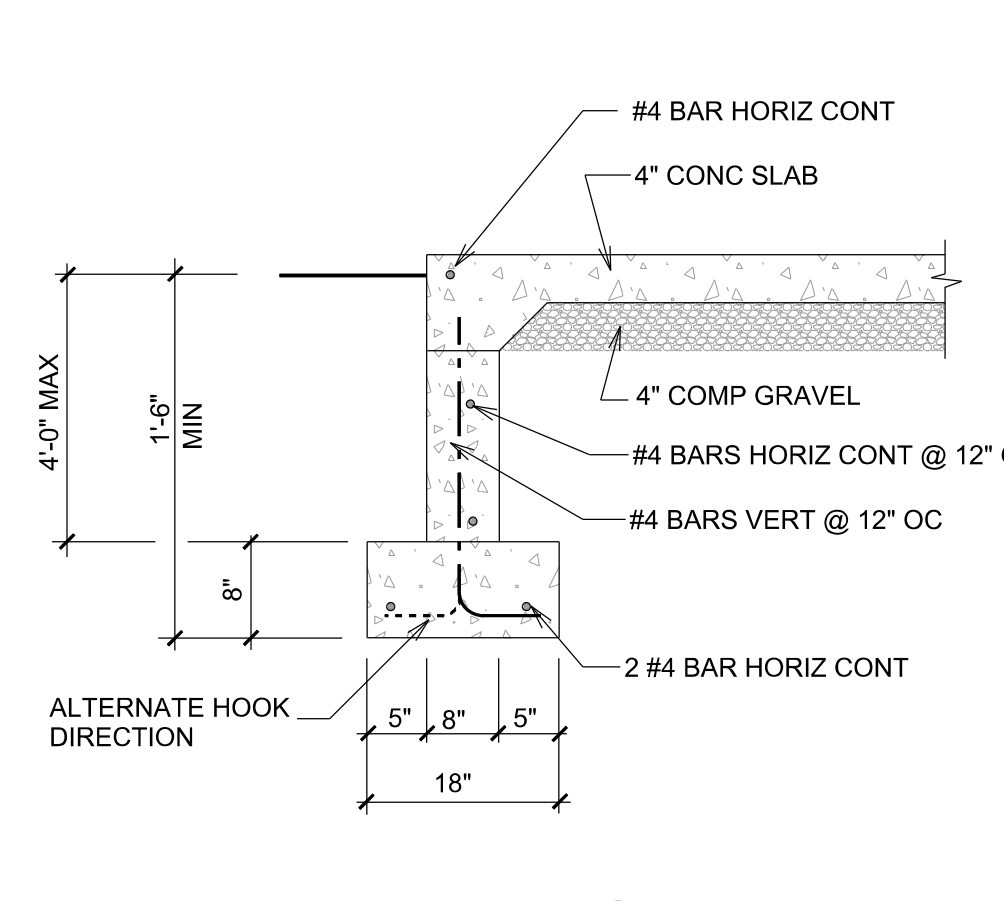
RETAINING WALL SCHEDULE							
H	A	B	L	T	B-BAR	T-BAR	F-BAR
2'-0"	2'-0"	6"	2'-0"	12"	#4 @ 12" o.c.	#4 @ 16" o.c.	(3)-#4 T, 4 B.
4'-0"	3'-0"	6"	2'-0"	12"	#4 @ 12" o.c.	#4 @ 12" o.c.	(4)-#4 T, 4 B.
6'-0"	4'-6"	9"	3'-0"	12"	#5 @ 12" o.c.	#5 @ 16" o.c.	(5)-#4 T, 4 B.
8'-0"	6'-0"	12"	4'-0"	15"	#7 @ 12" o.c.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



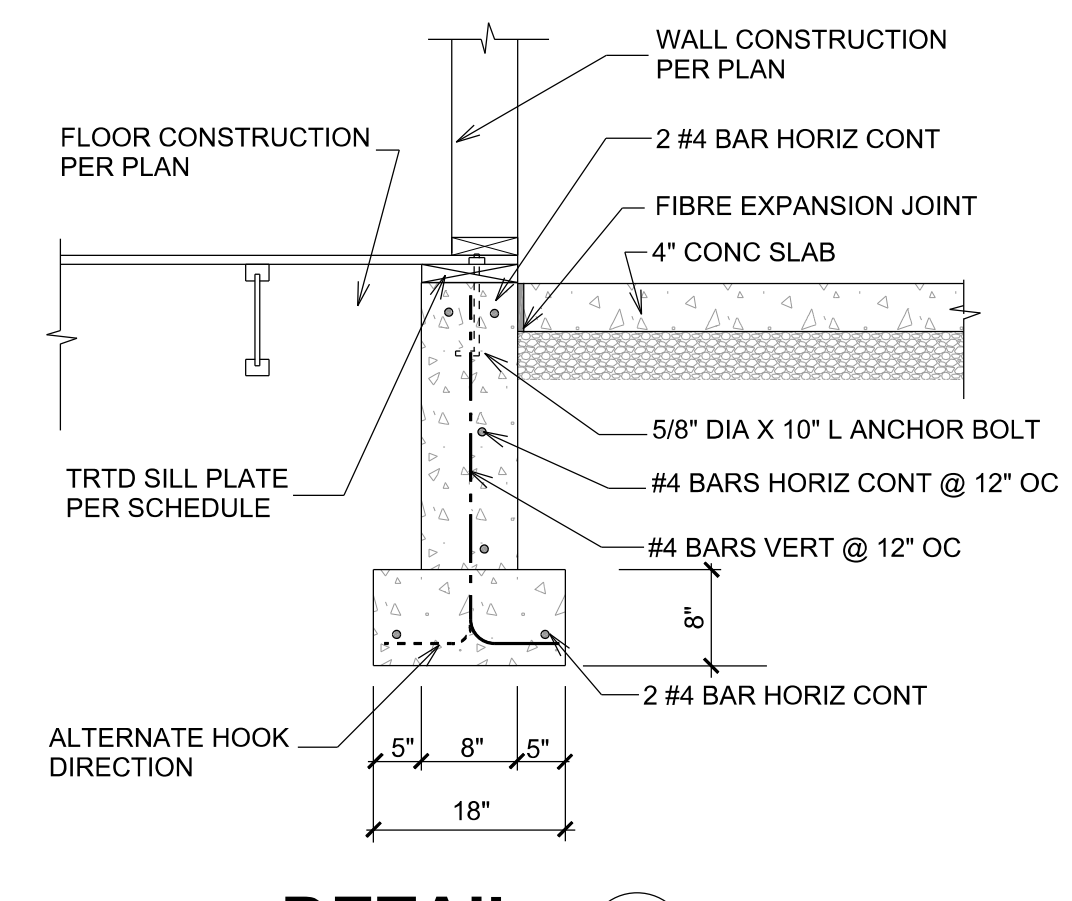
DETAIL 10
SCALE 3/4" = 1'-0"



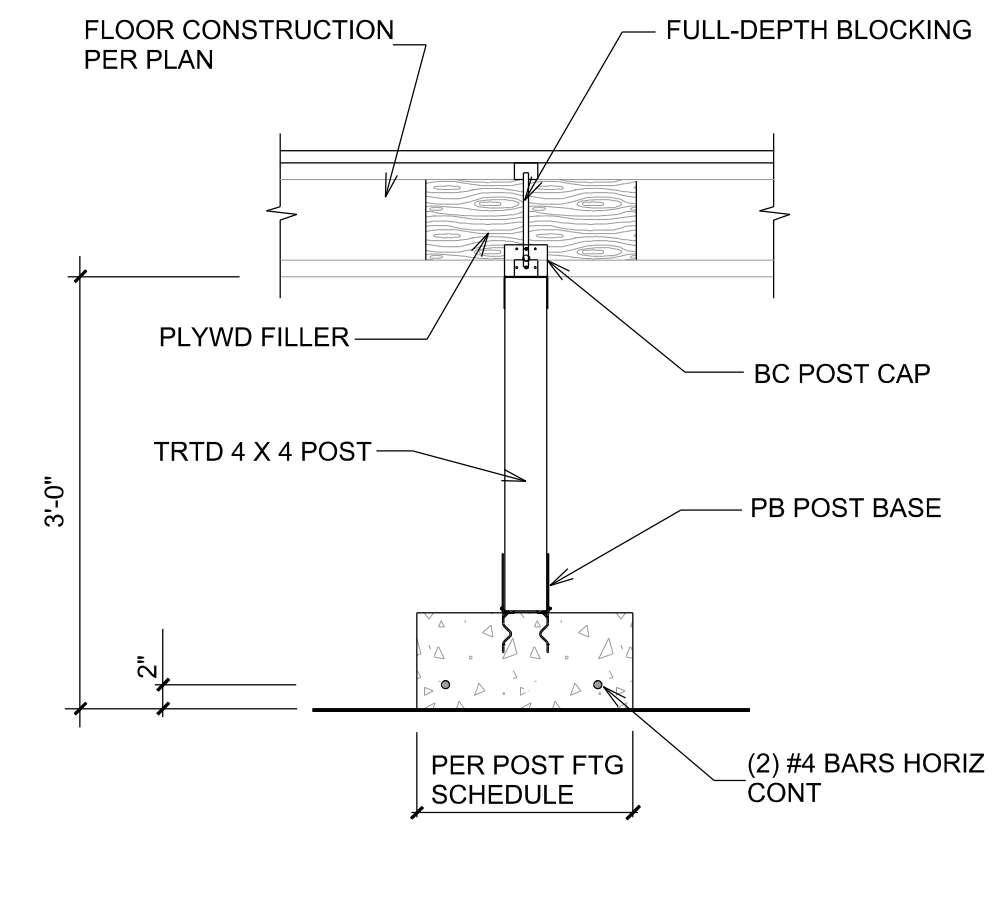
DETAIL 11
SCALE 3/4" = 1'-0"



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



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



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

REVISION EDITION

1	2	3	4
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DRAWN BY: _____
CHECKED BY: A.G.
DATE: 11-30-2021

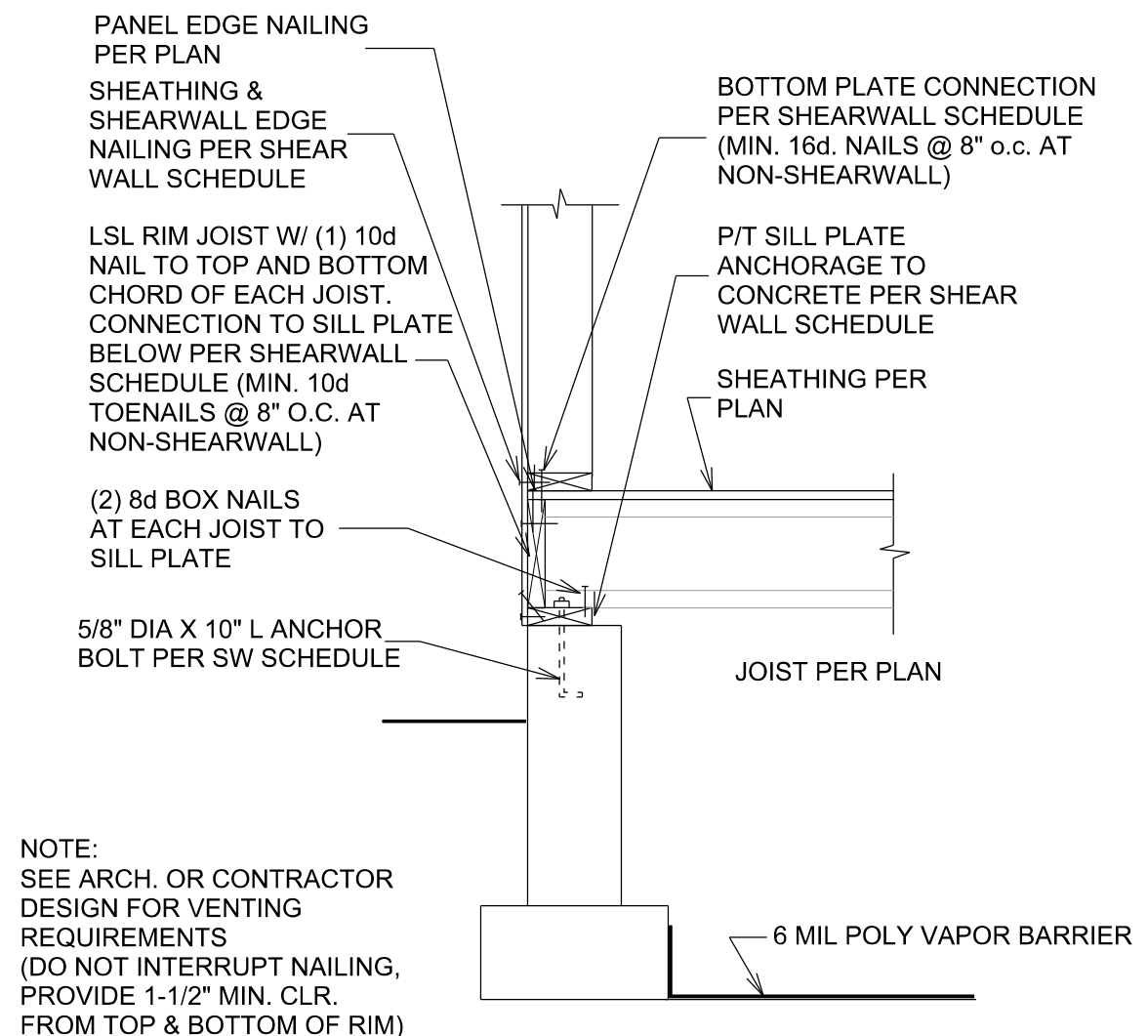
PHONE: 425-351-4598
P.O. BOX 7255
BELLEVUE, WA 98008
K.I.A. CONSULTING STRUCTURAL ENGINEERS

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

FOUNDATION DETAILS

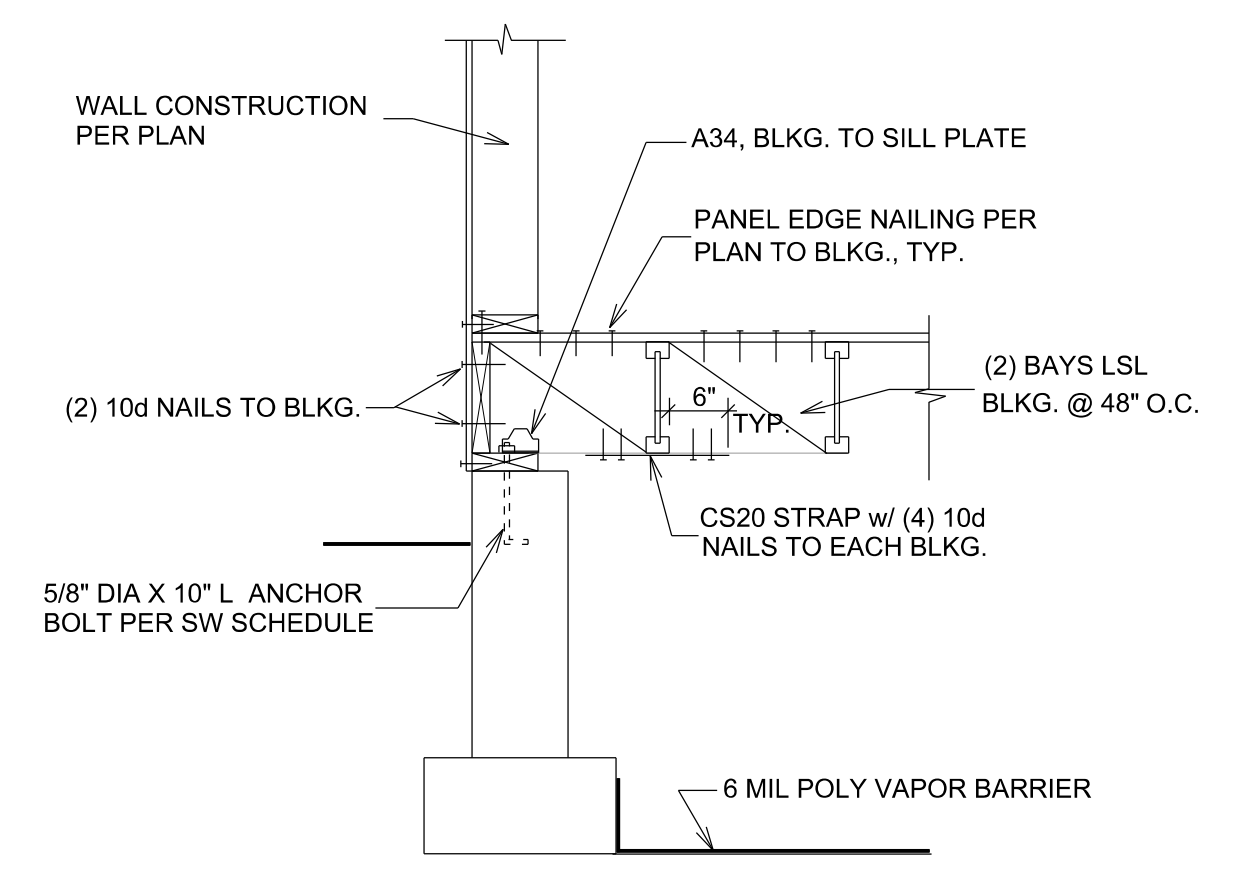
SHEET **S-3**
OF
-

JOB #



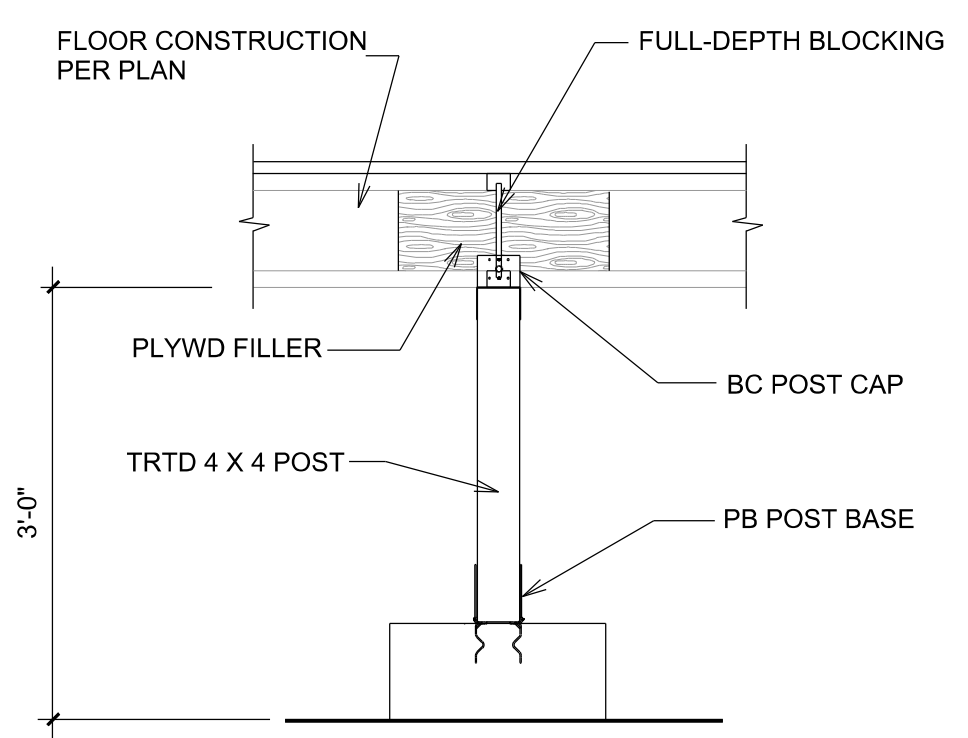
DETAIL 1
SCALE 3/4" = 1'-0"

NOTE: SEE ARCHITECTURAL DRAWINGS FOR FOUNDATION DESIGN ON SHT. S-2

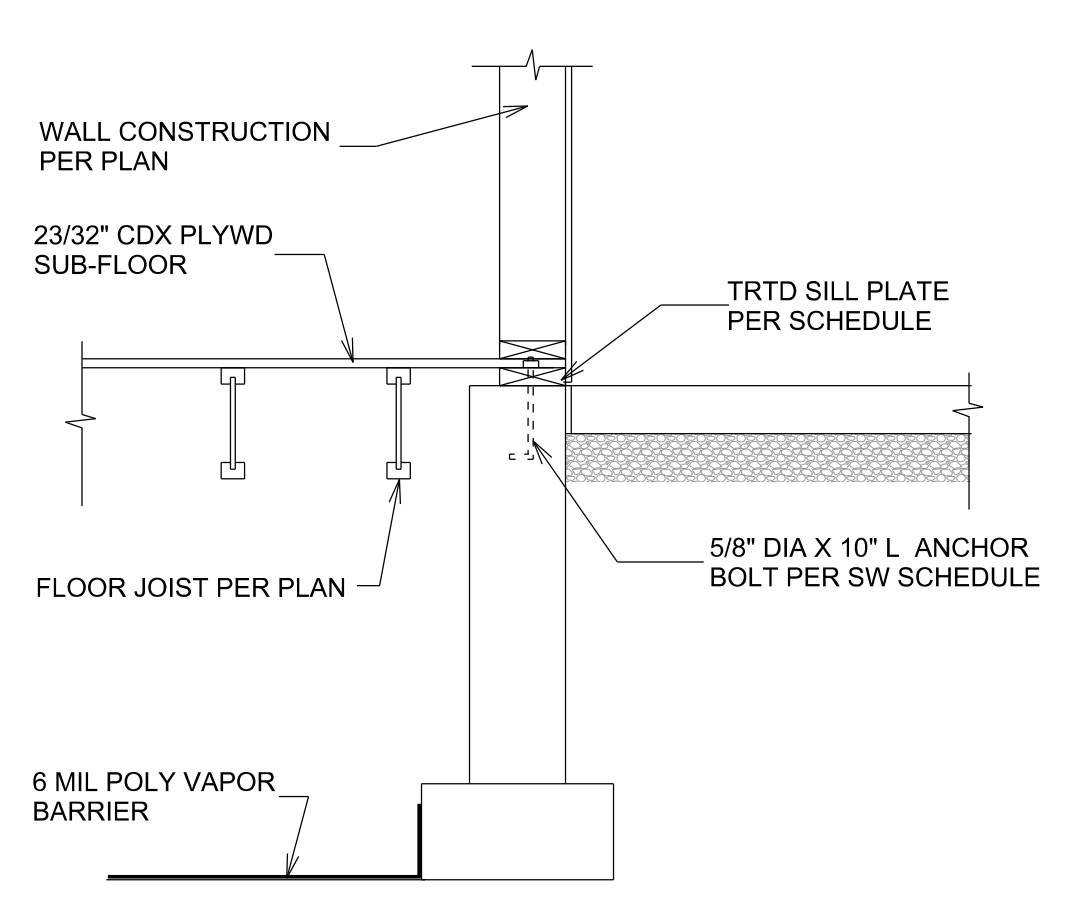


DETAIL 2
SCALE 3/4" = 1'-0"

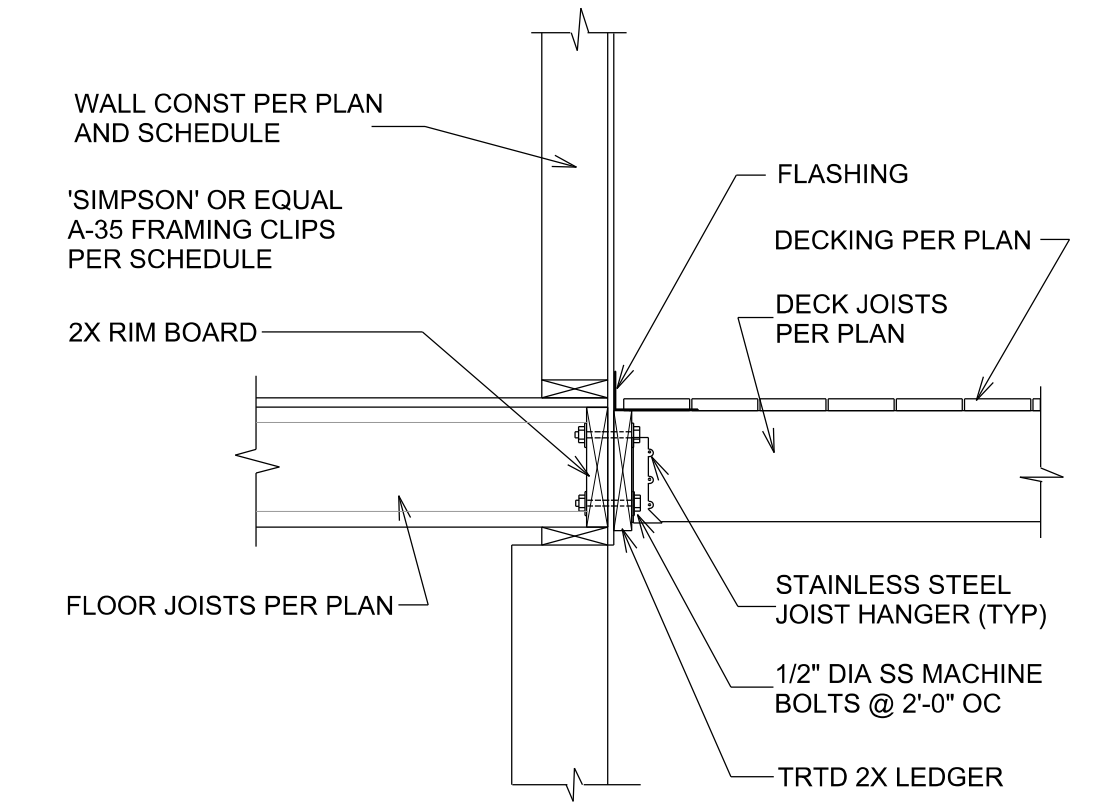
NOTE: SEE ARCHITECTURAL DRAWINGS FOR FOUNDATION DESIGN ON SHT. S-2



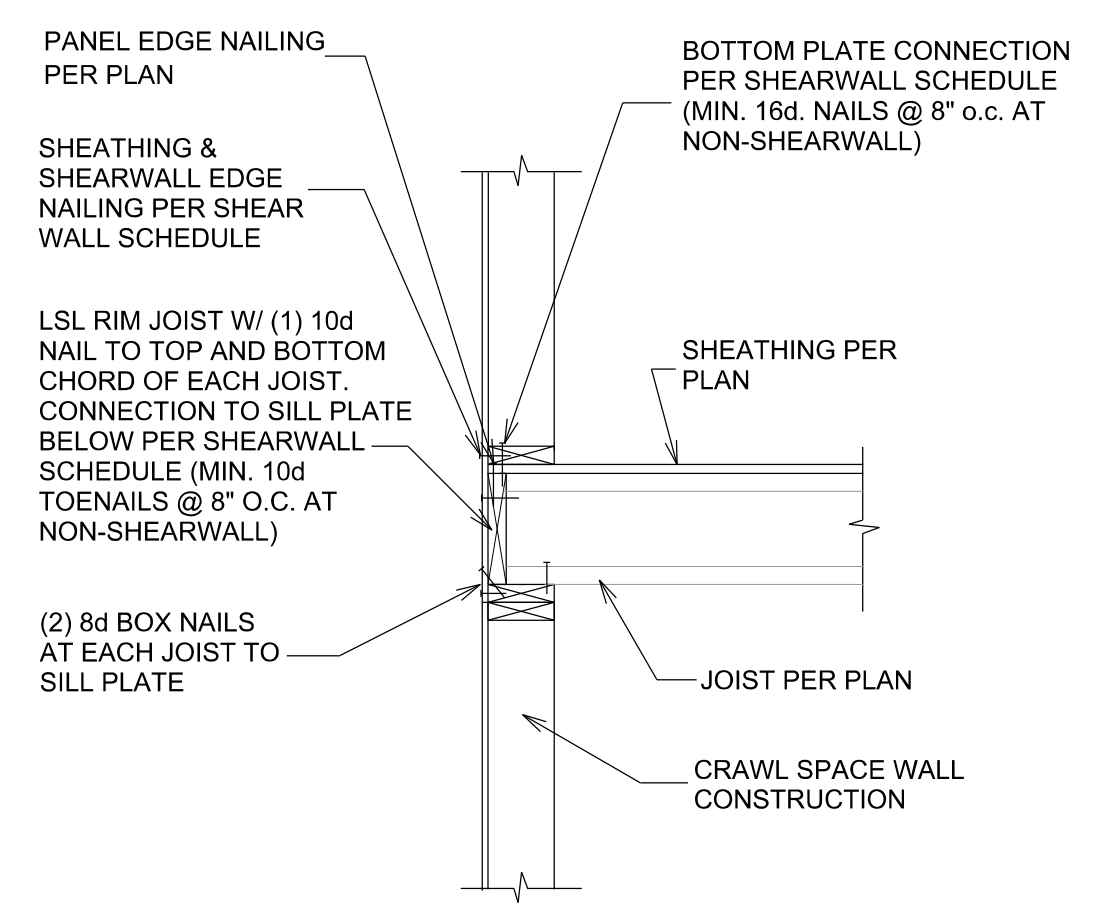
DETAIL 3
SCALE 3/4" = 1'-0"



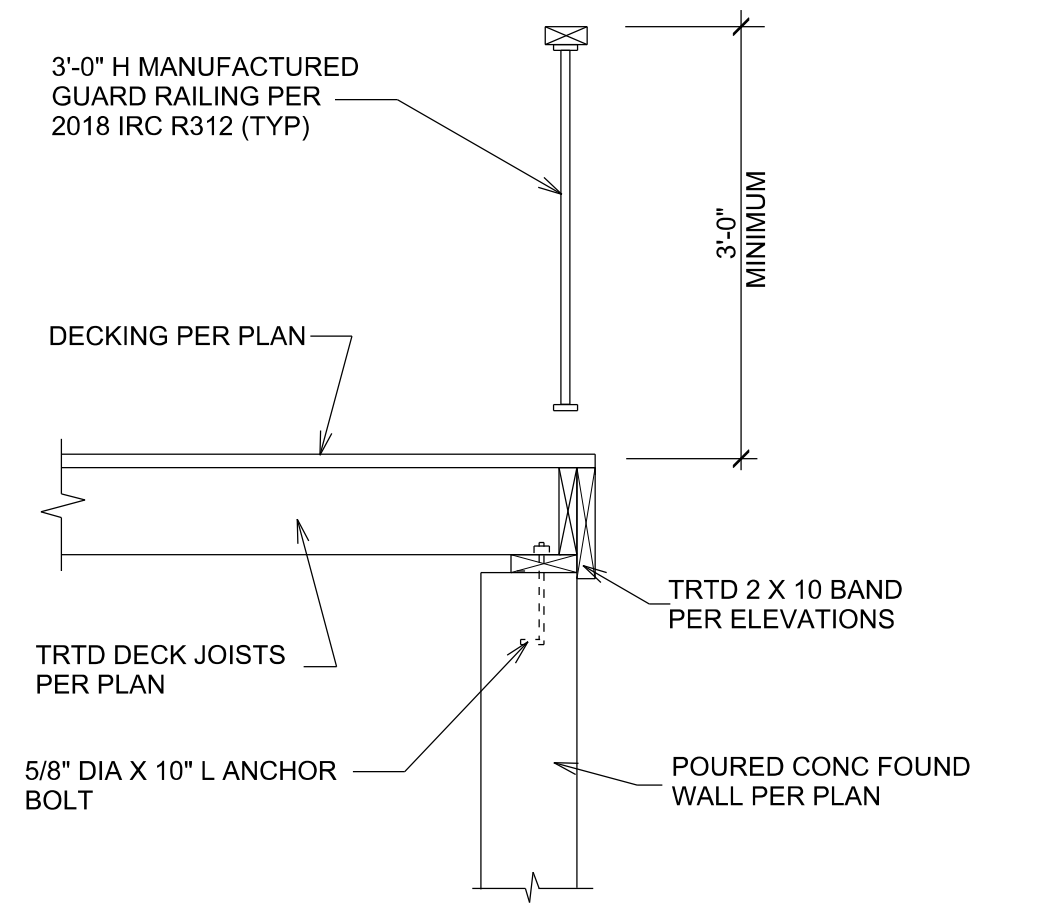
DETAIL 4
SCALE 3/4" = 1'-0"



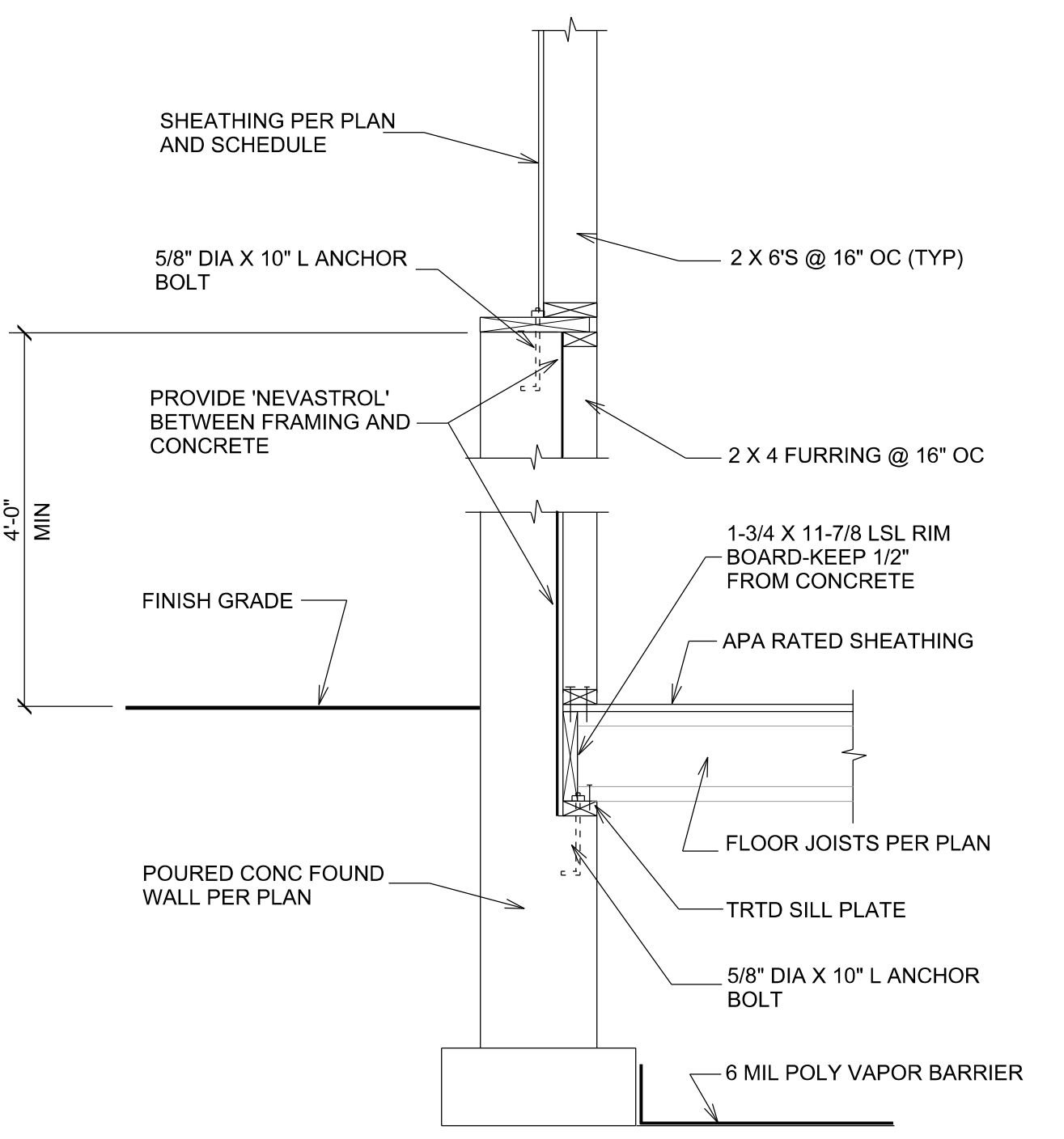
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SCALE 3/4" = 1'-0"



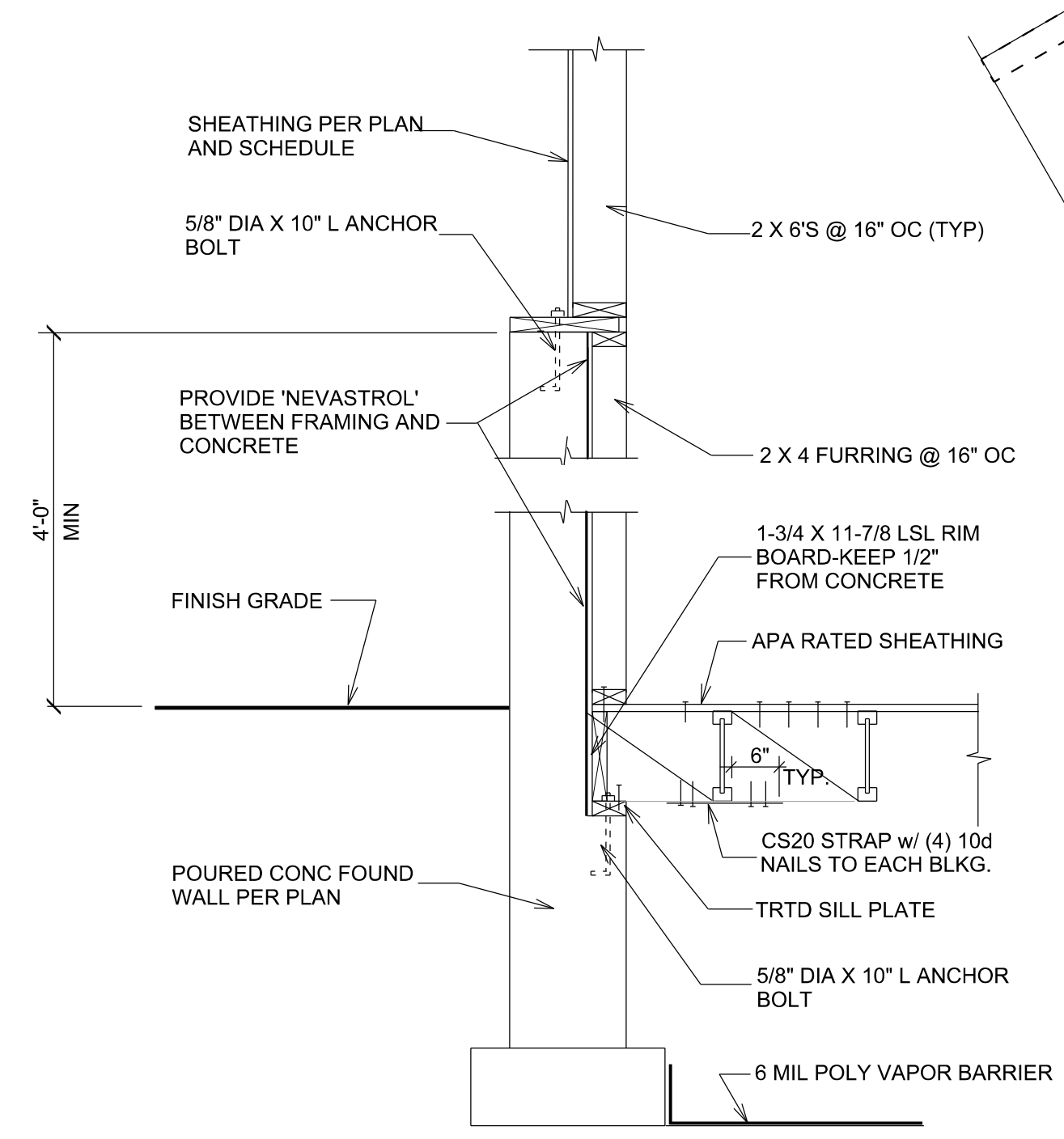
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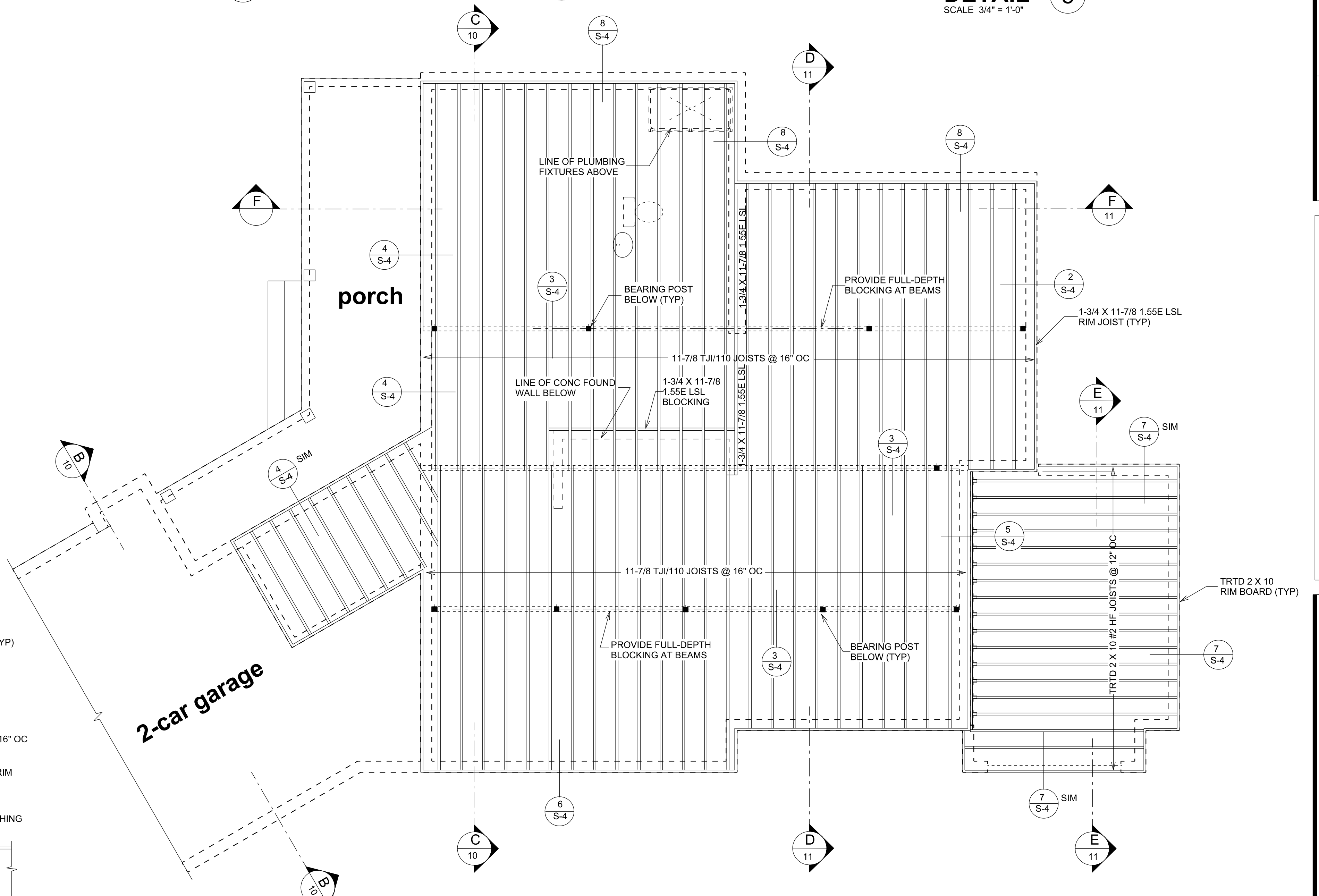
DETAIL 7
SCALE 3/4" = 1'-0"



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



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



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

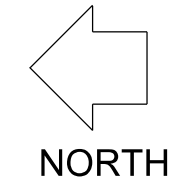
BEARING POST NOTES

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

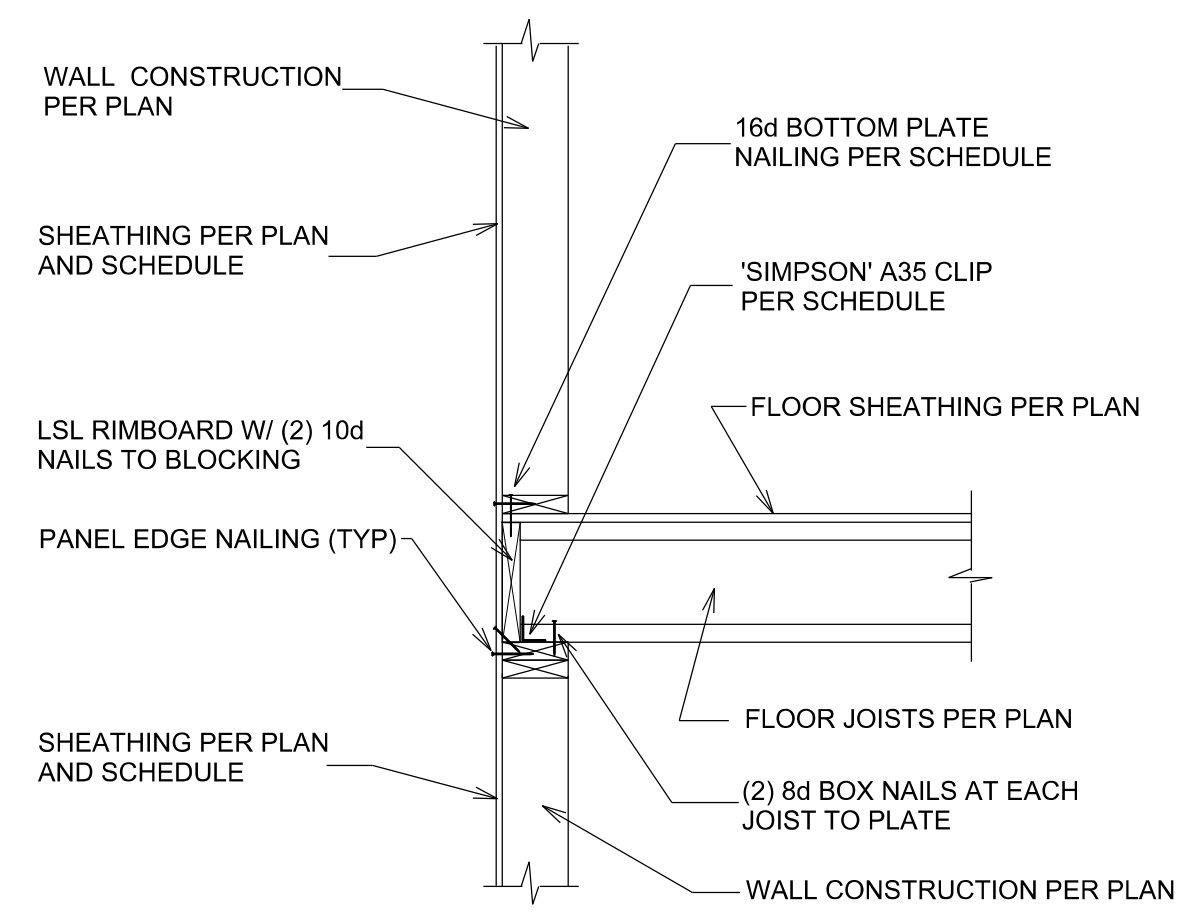
PHONE: 425-351-9999
P.O. BOX 7295
BELLEVUE, WA 98008

K.T.A. CO.
CONSULTING STRUCTURAL ENGINEERS

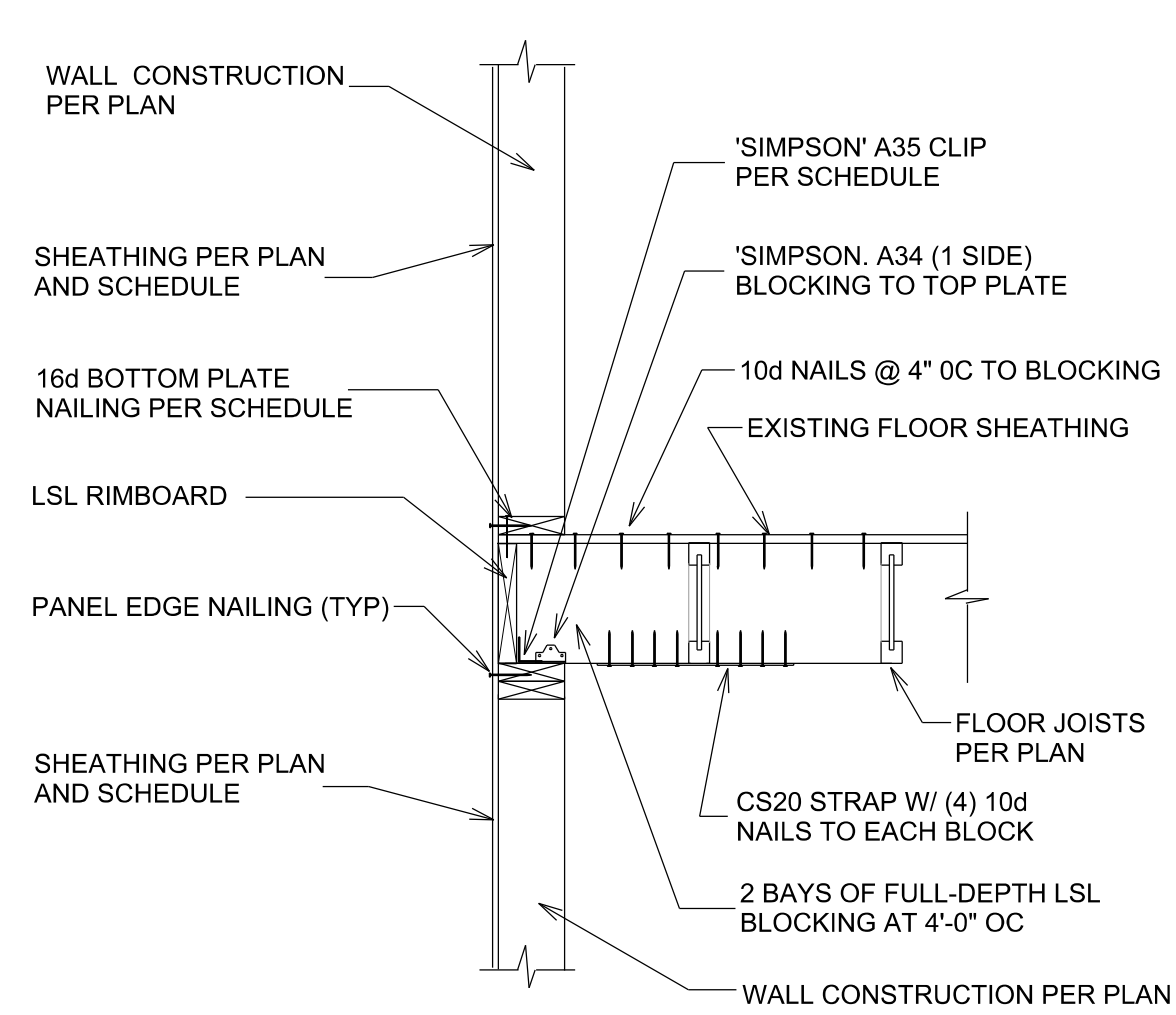
PROPOSED NEW RESIDENCE
EDWARD & CATHERINE MORAN
5000 WEST MERCER WAY
MERCER ISLAND, WA 98040

MAIN LEVEL FLOOR FRAMING

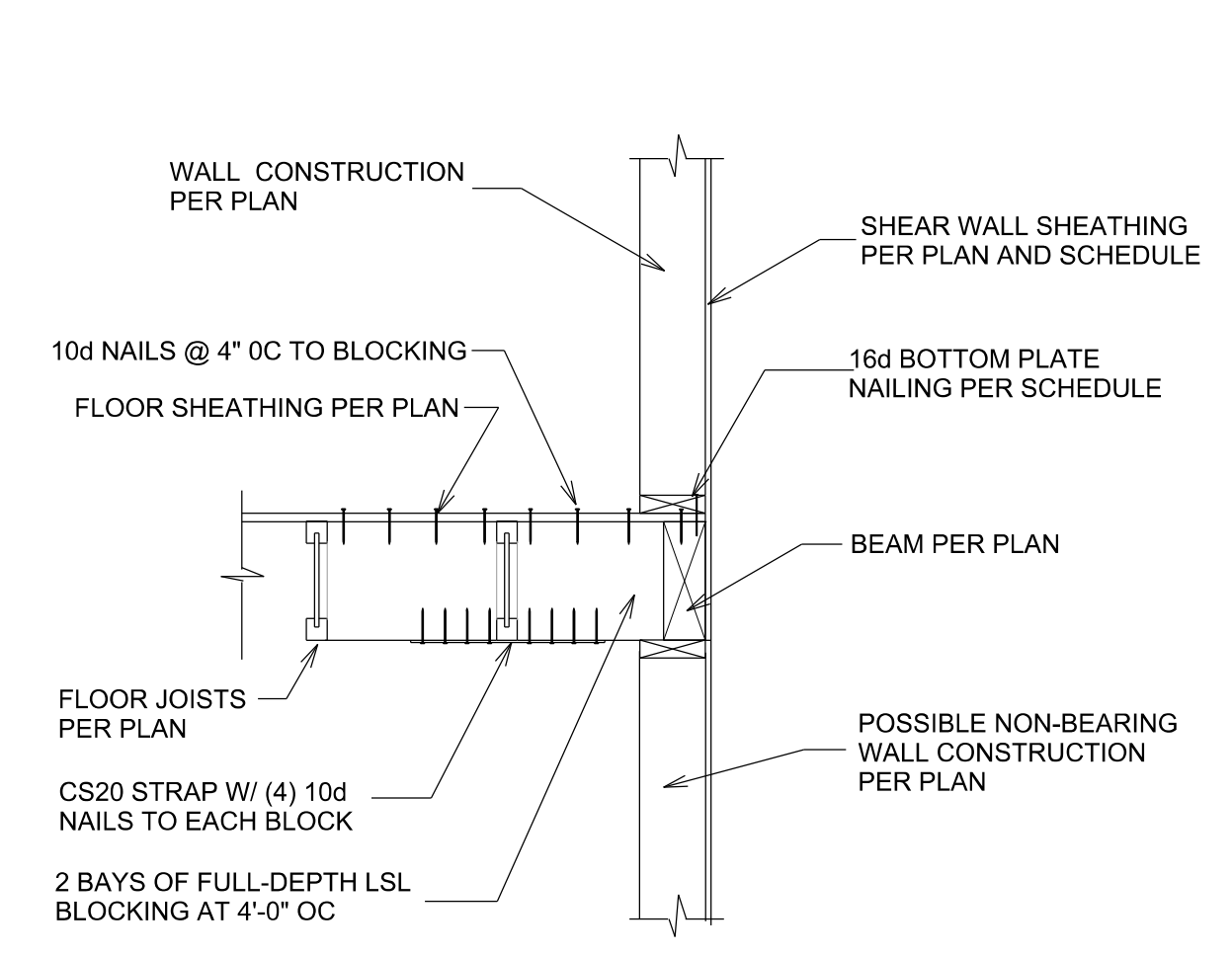




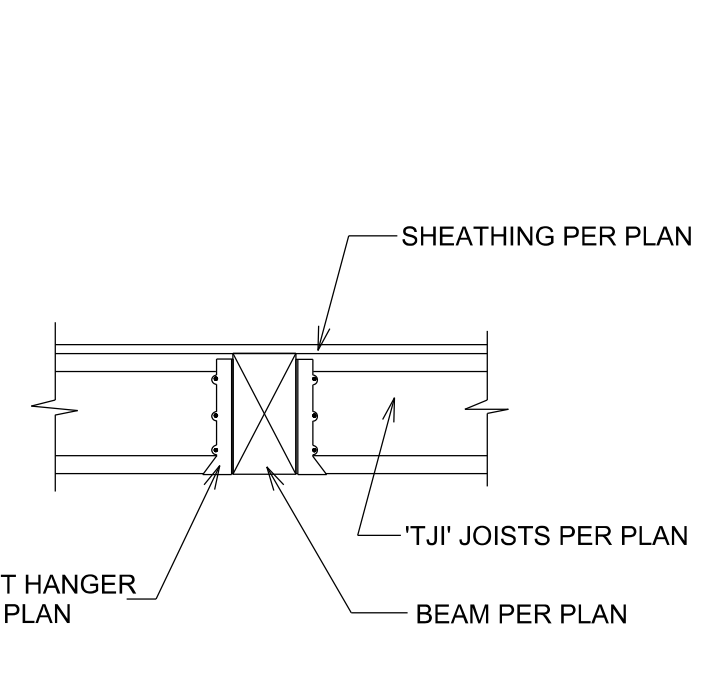
DETAIL 1
SCALE 3/4" = 1'-0"



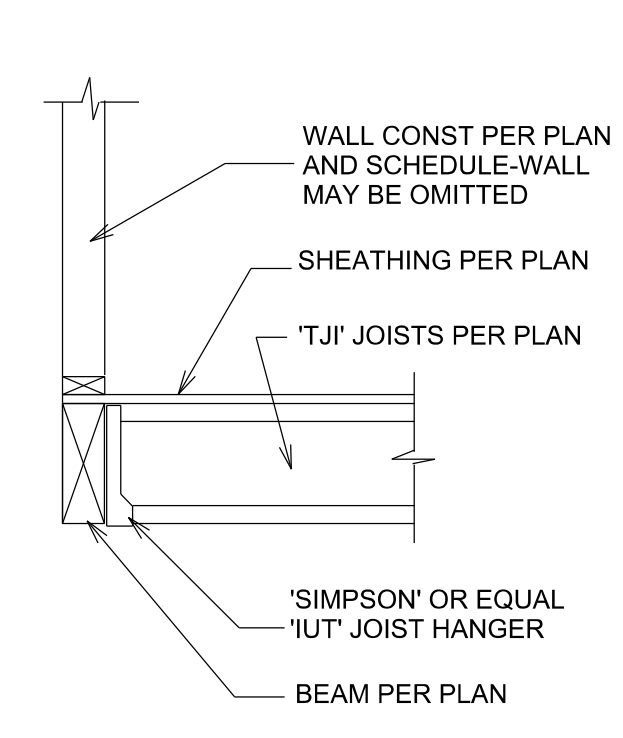
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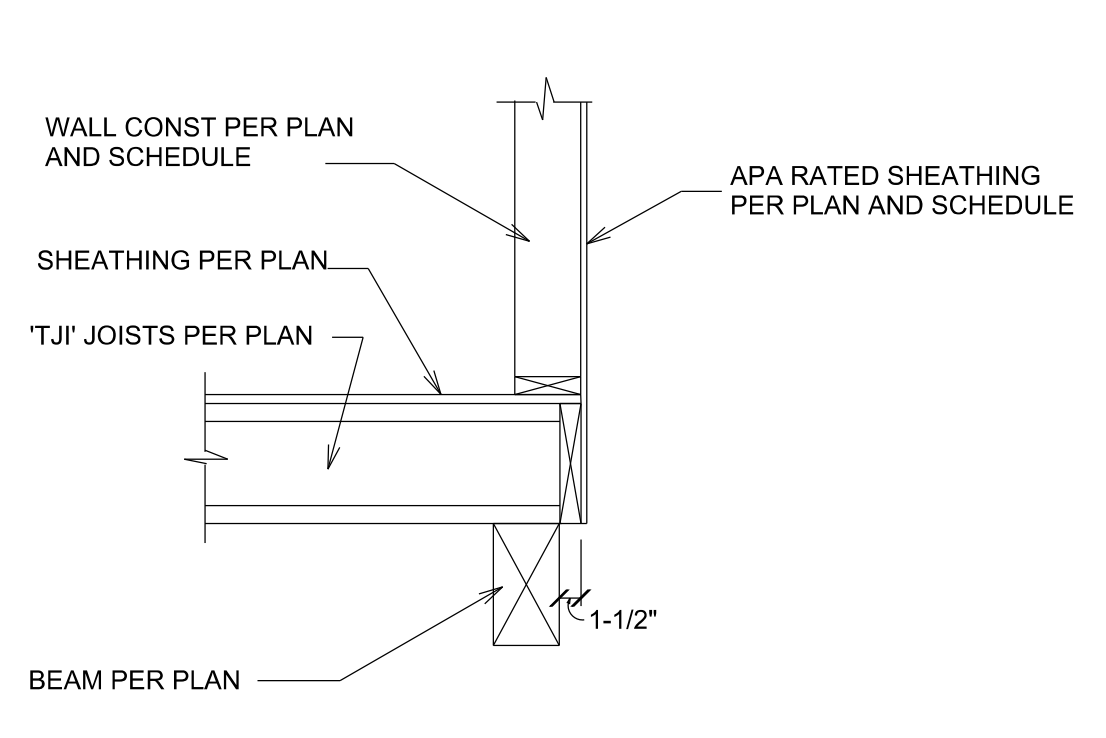
DETAIL 3
SCALE 3/4" = 1'-0"



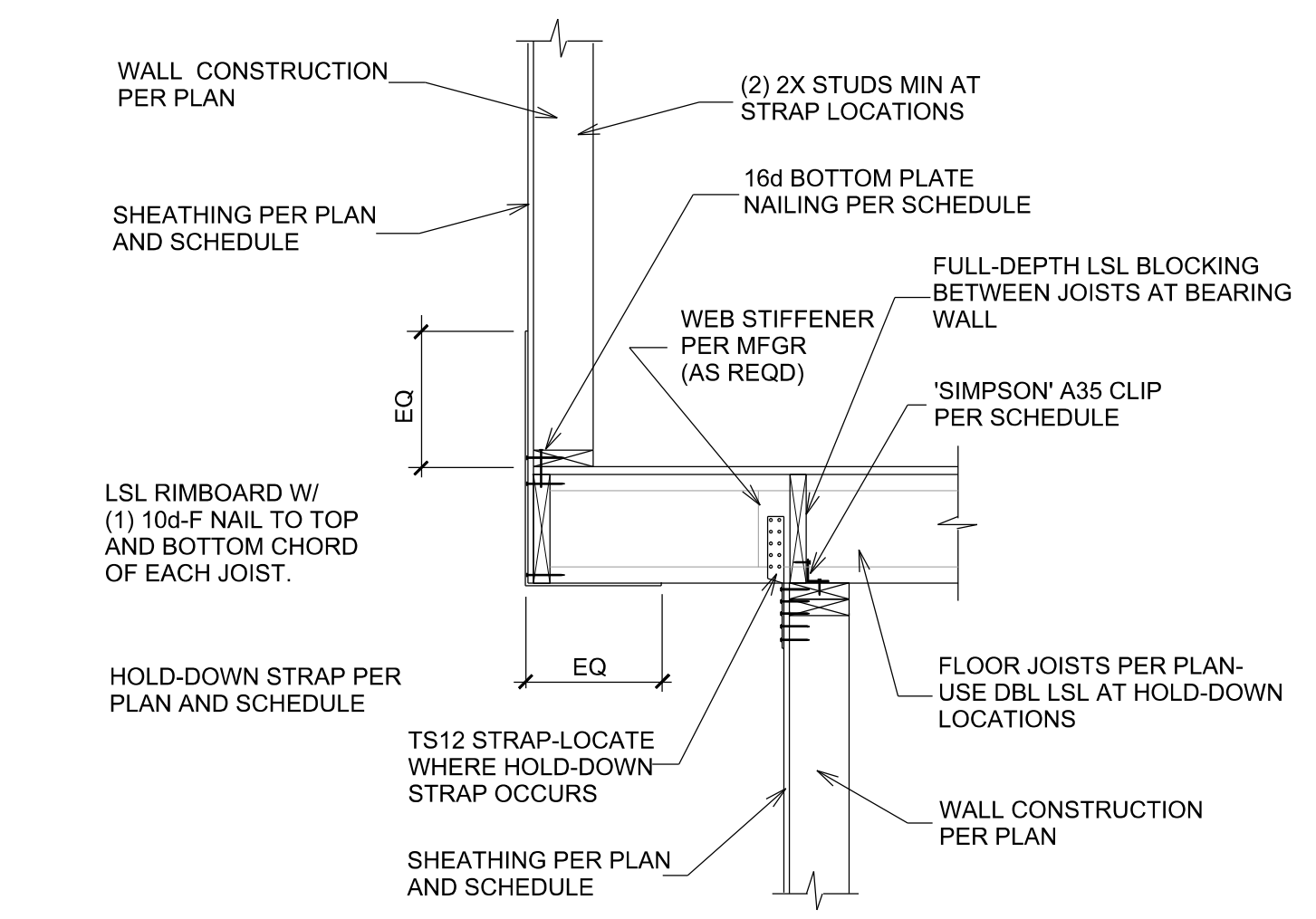
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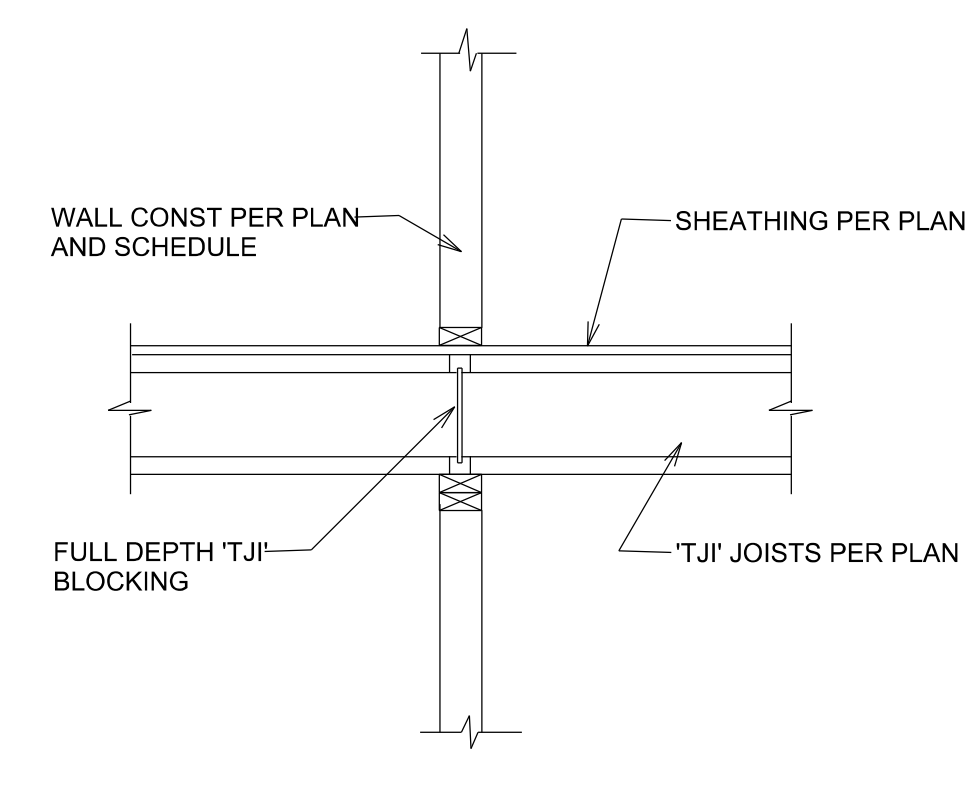
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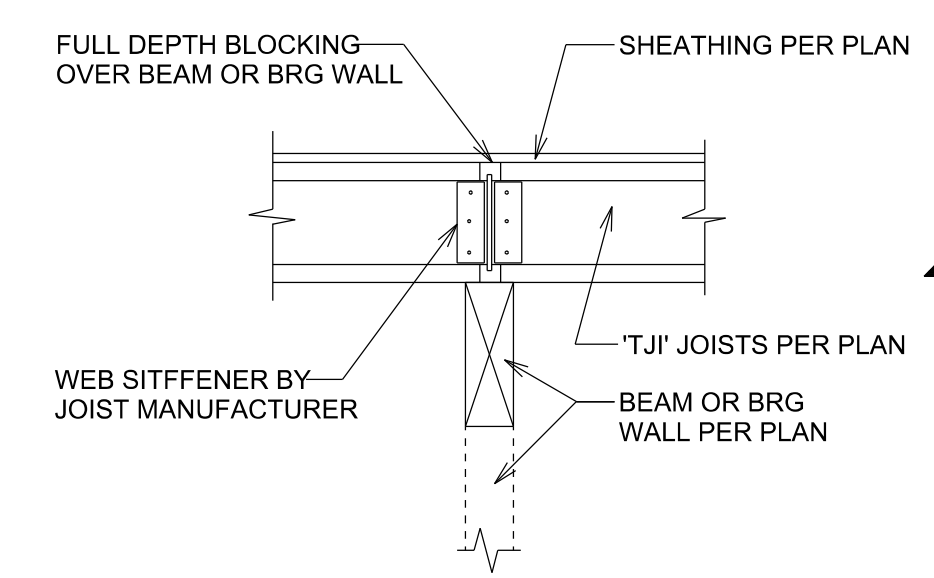
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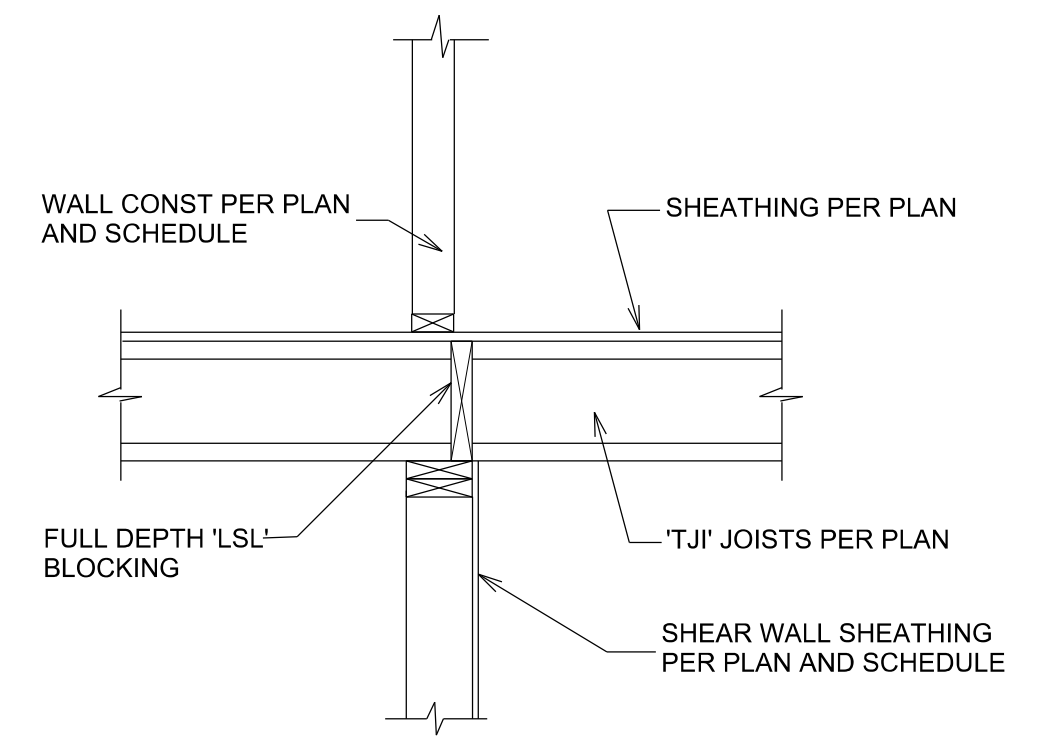
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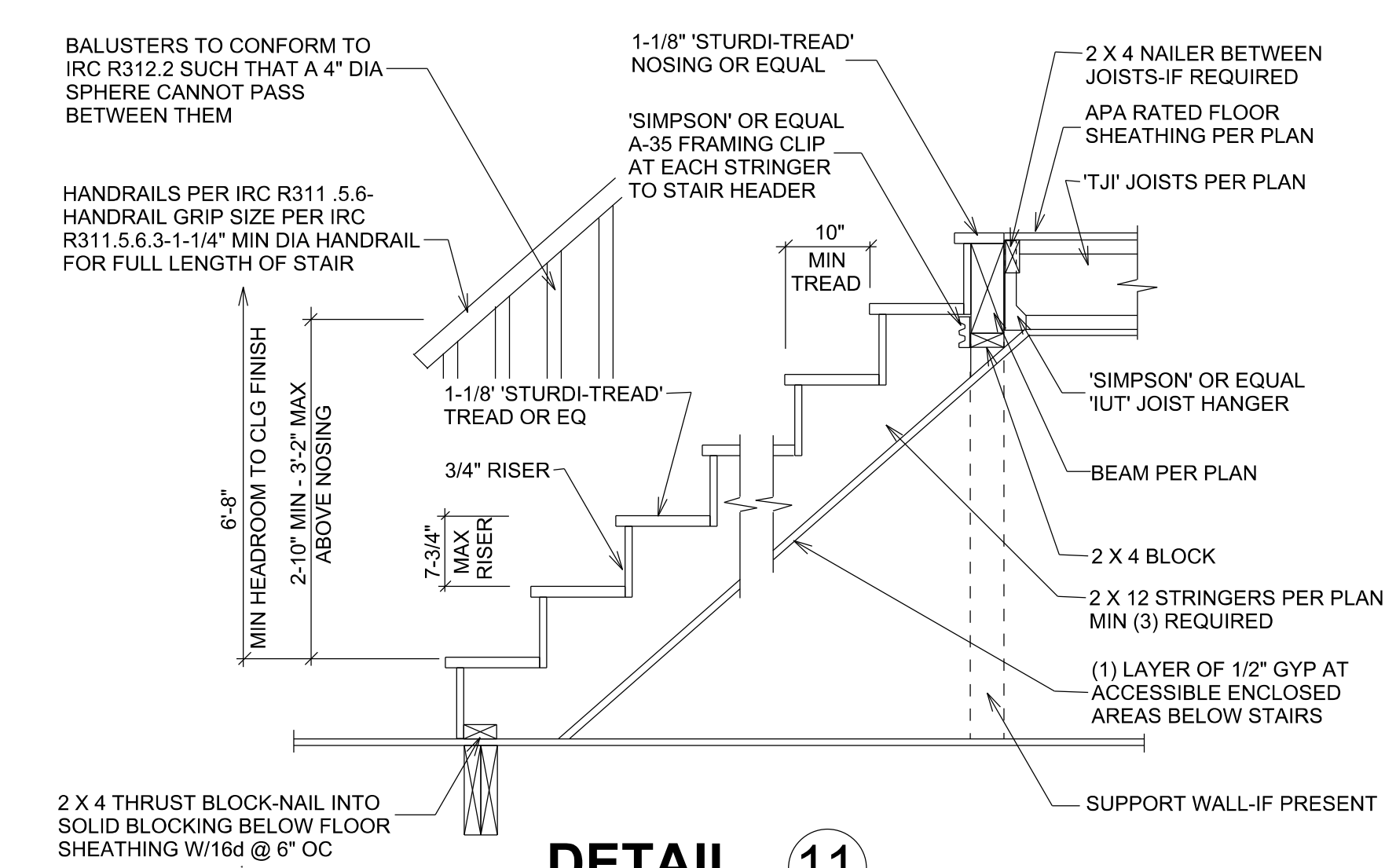
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SCALE 3/4" = 1'-0"



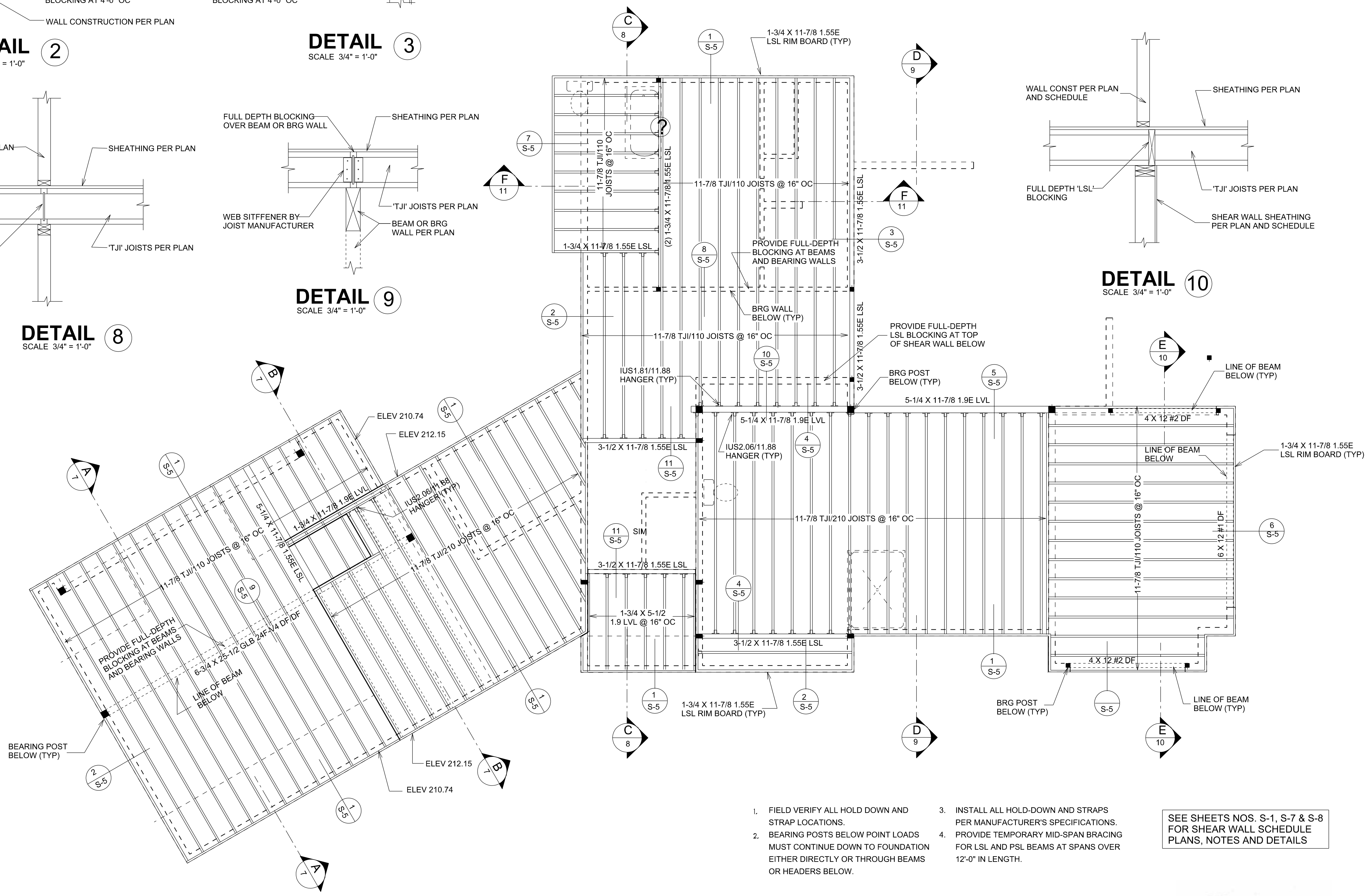
DETAIL 9
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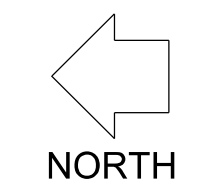
DETAIL 10
SCALE 3/4" = 1'-0"



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.

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, U.N.O.

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

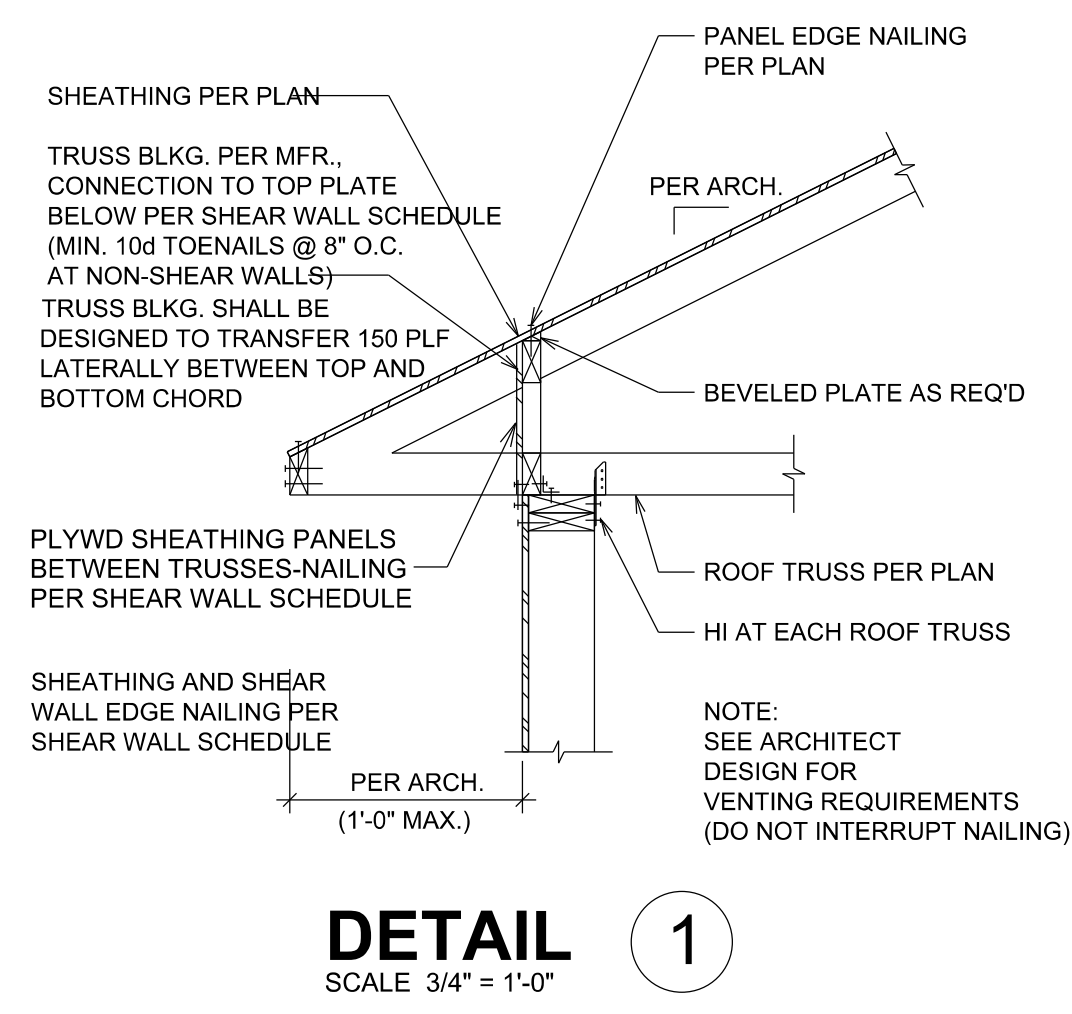


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DRAWN BY:	A.G.			
CHECKED BY:	A.G.			
DATE:	11-30-2021			
PHONE:	425-351-6999			
P.O. BOX:	7295			
ADDRESS:	BELLEVUE, WA 98006			
STATE:	K.I.A. CO			
PROFESSION:	CONSULTING STRUCTURAL ENGINEERS			

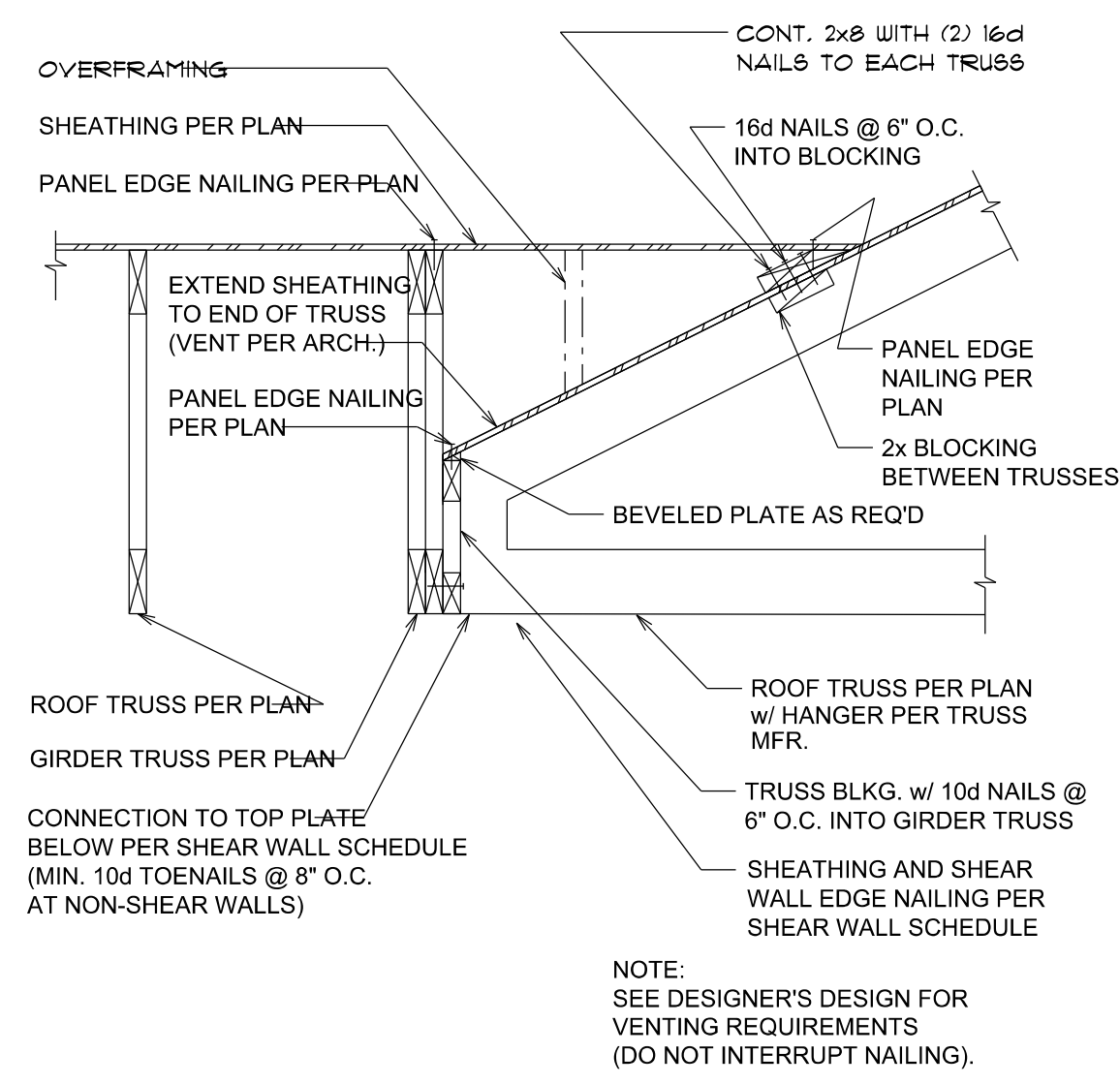
PROPOSED NEW RESIDENCE
EDWARD & CATHERINE MORAN
5000 WEST MERCER WAY
MERCER ISLAND, WA 98040

UPPER LEVEL FLOOR FRAMING

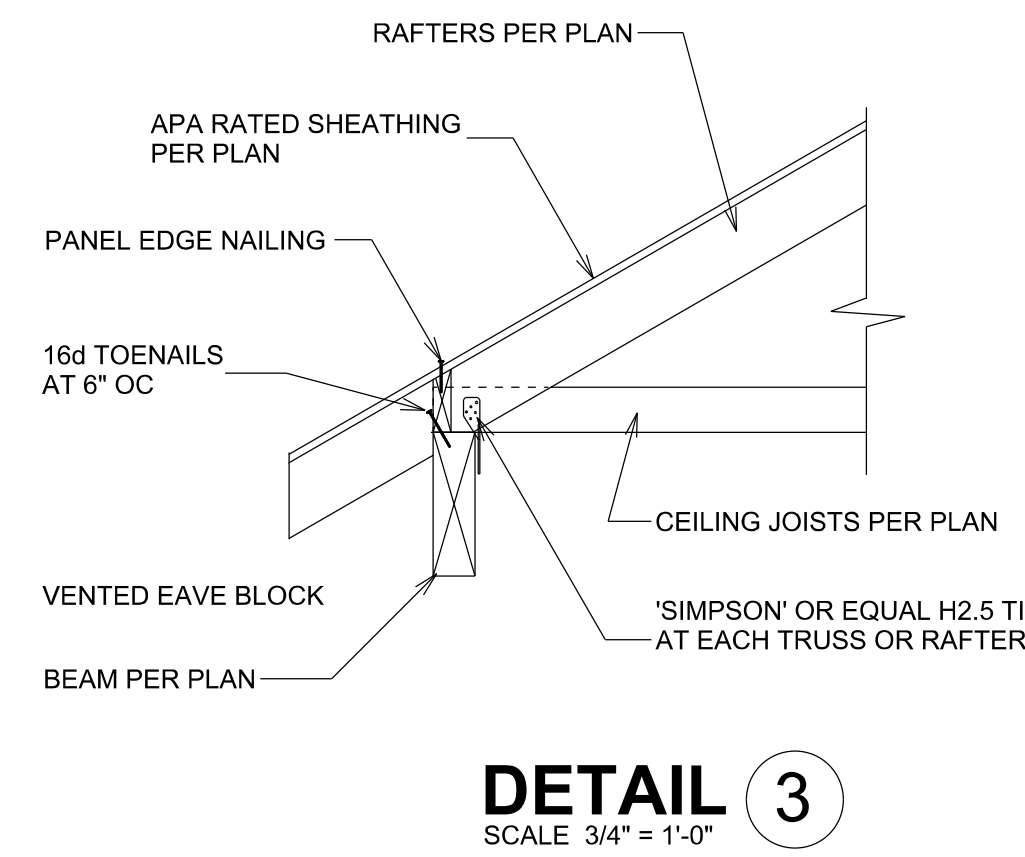
SHEET	S-5
OF	5
JOB #	



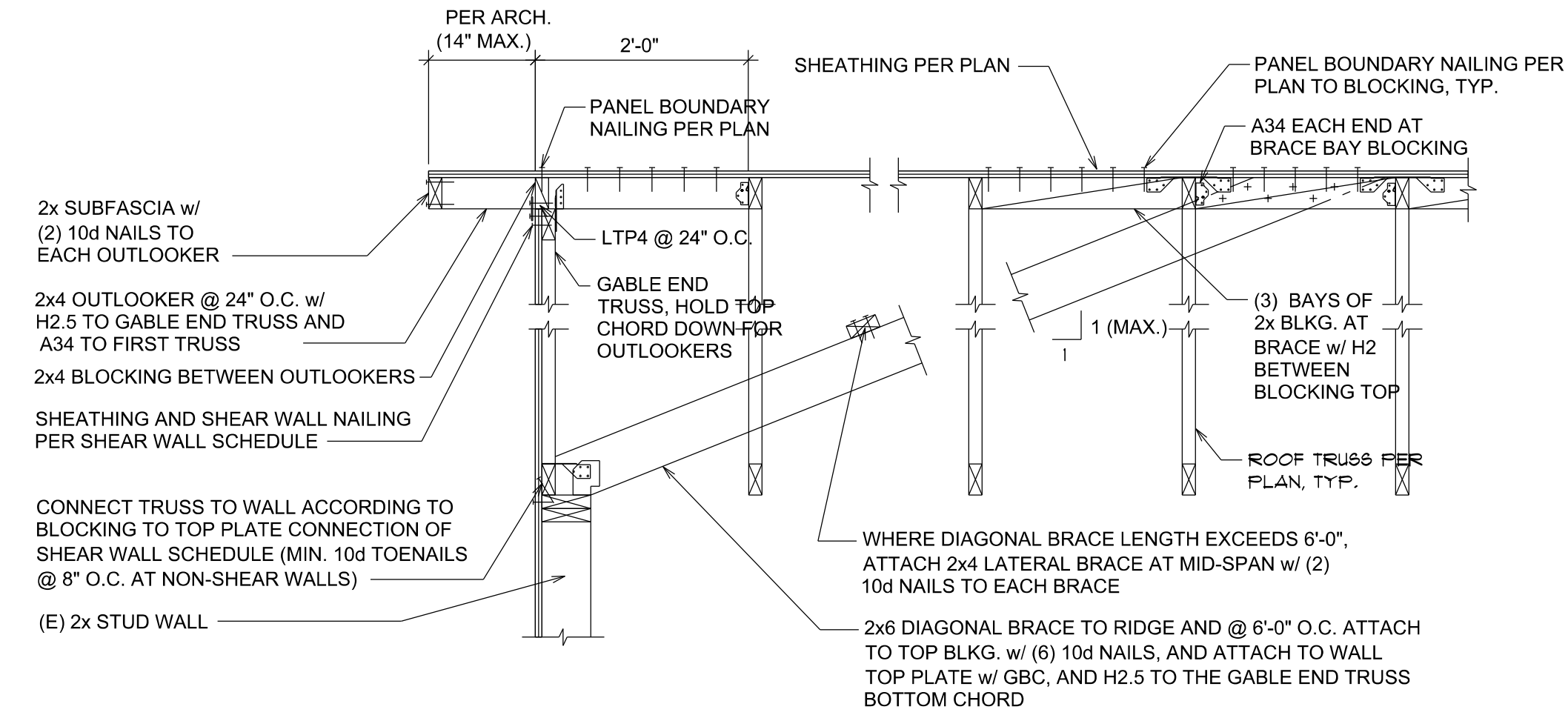
DETAIL 1
SCALE 3/4" = 1'-0"



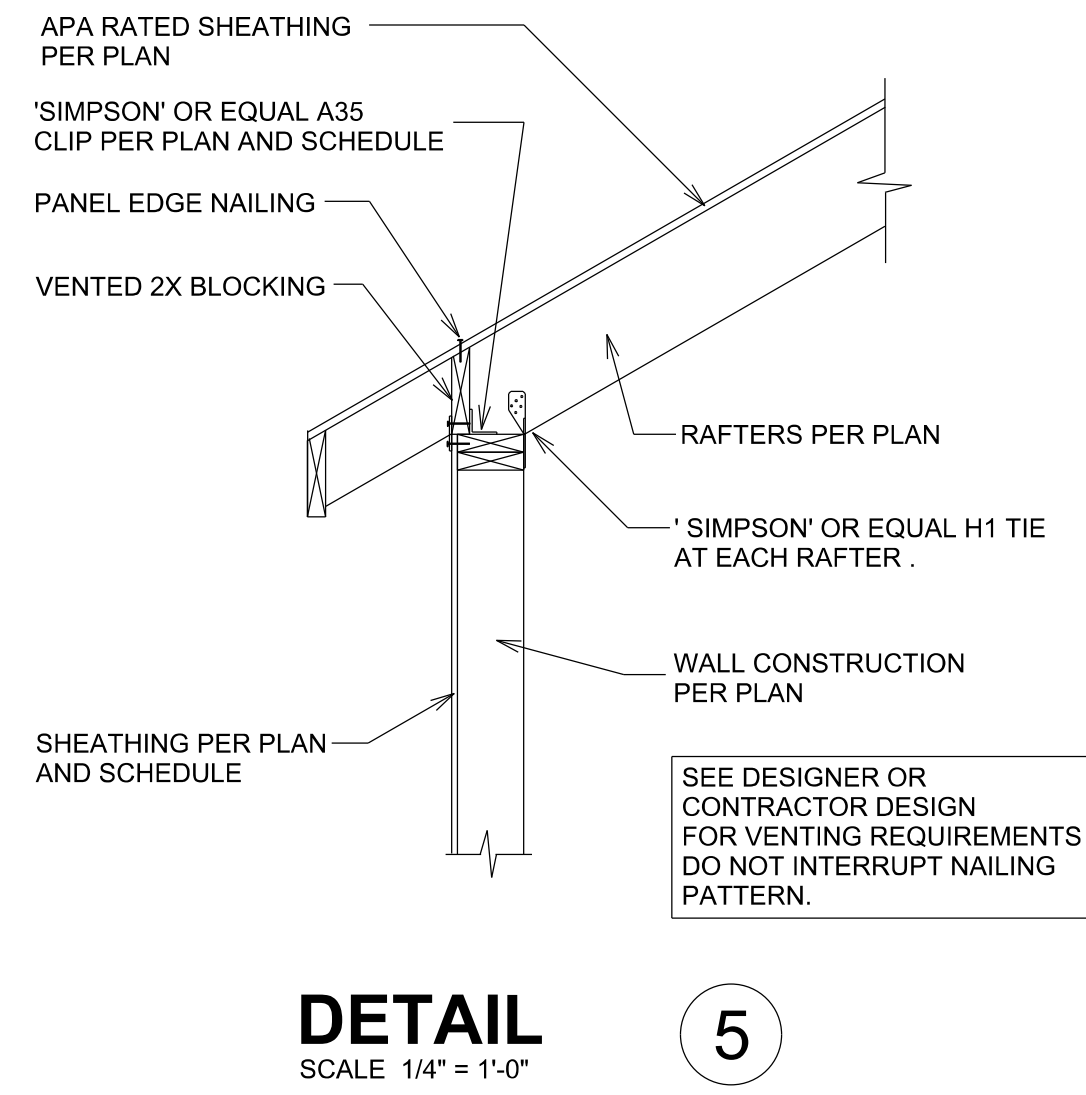
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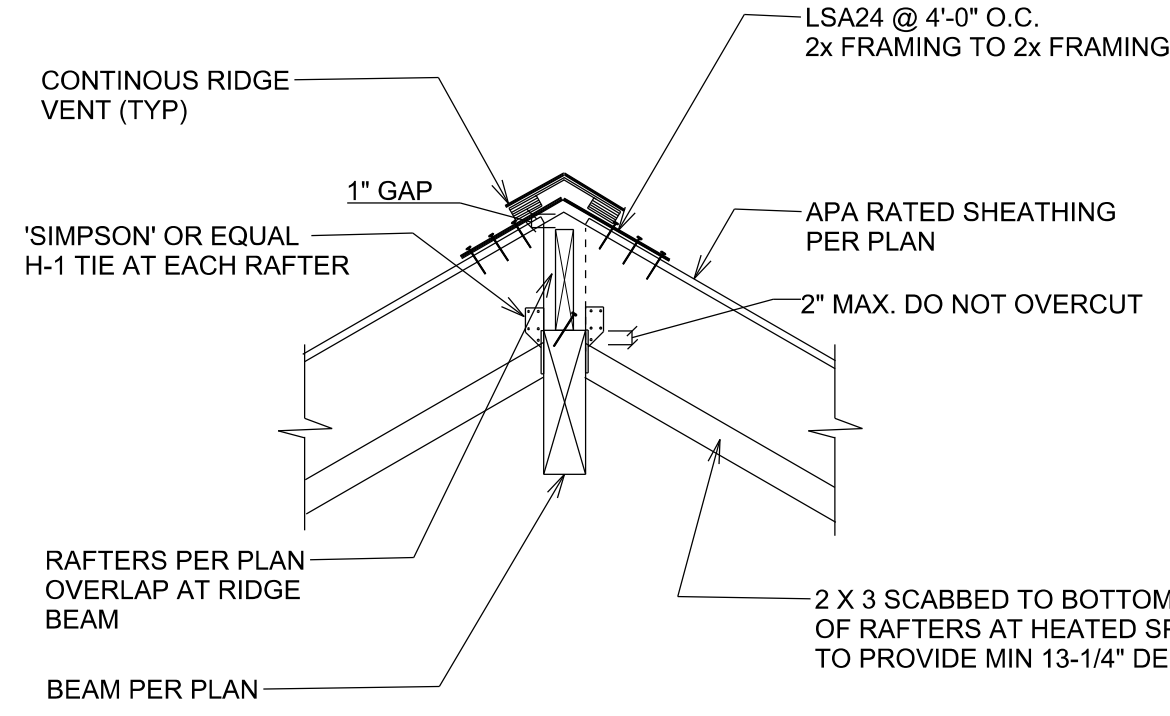
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SCALE 3/4" = 1'-0"



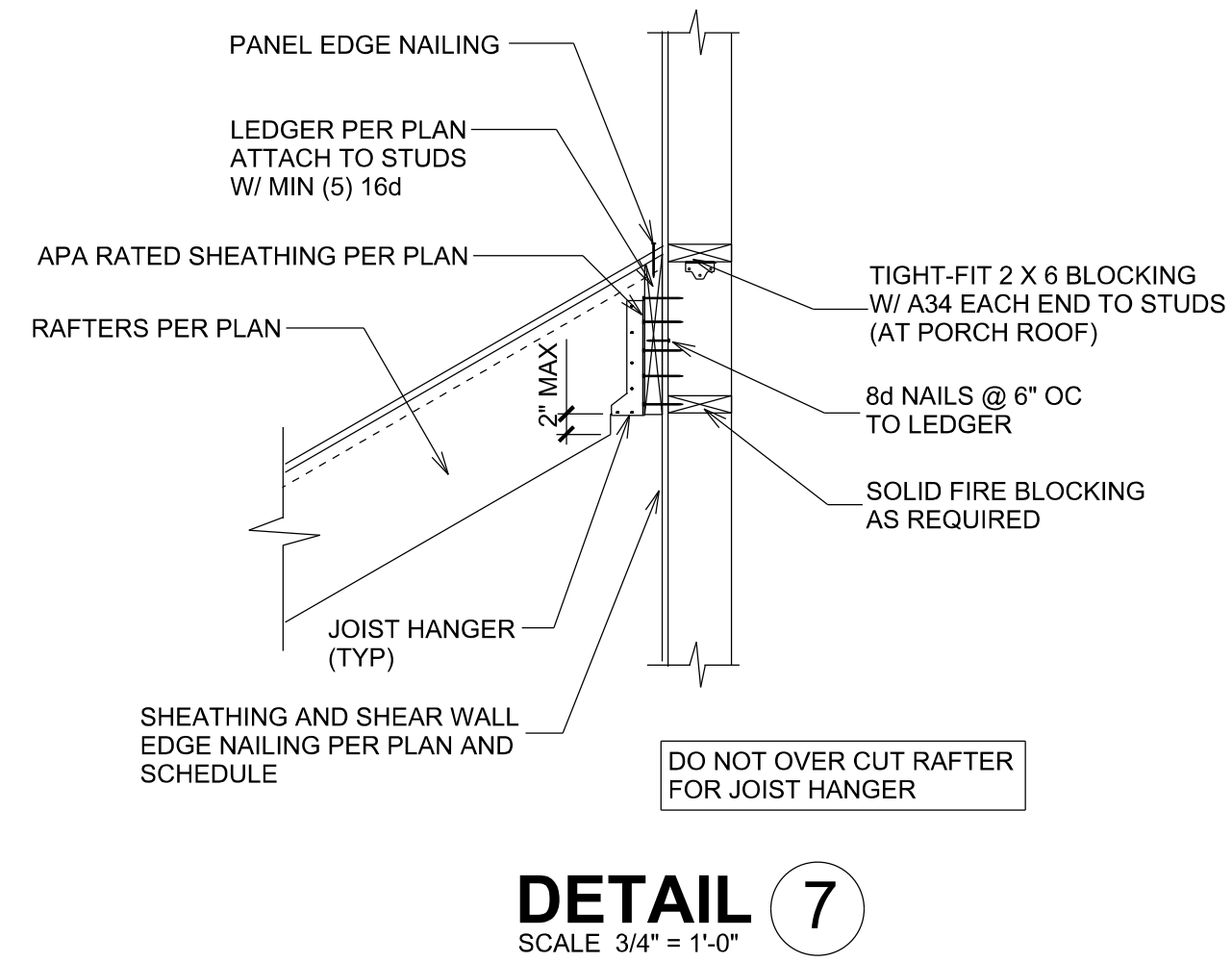
TYPICAL ROOF TRUSS TO EXTERIOR WALL - TRUSS PARALLEL



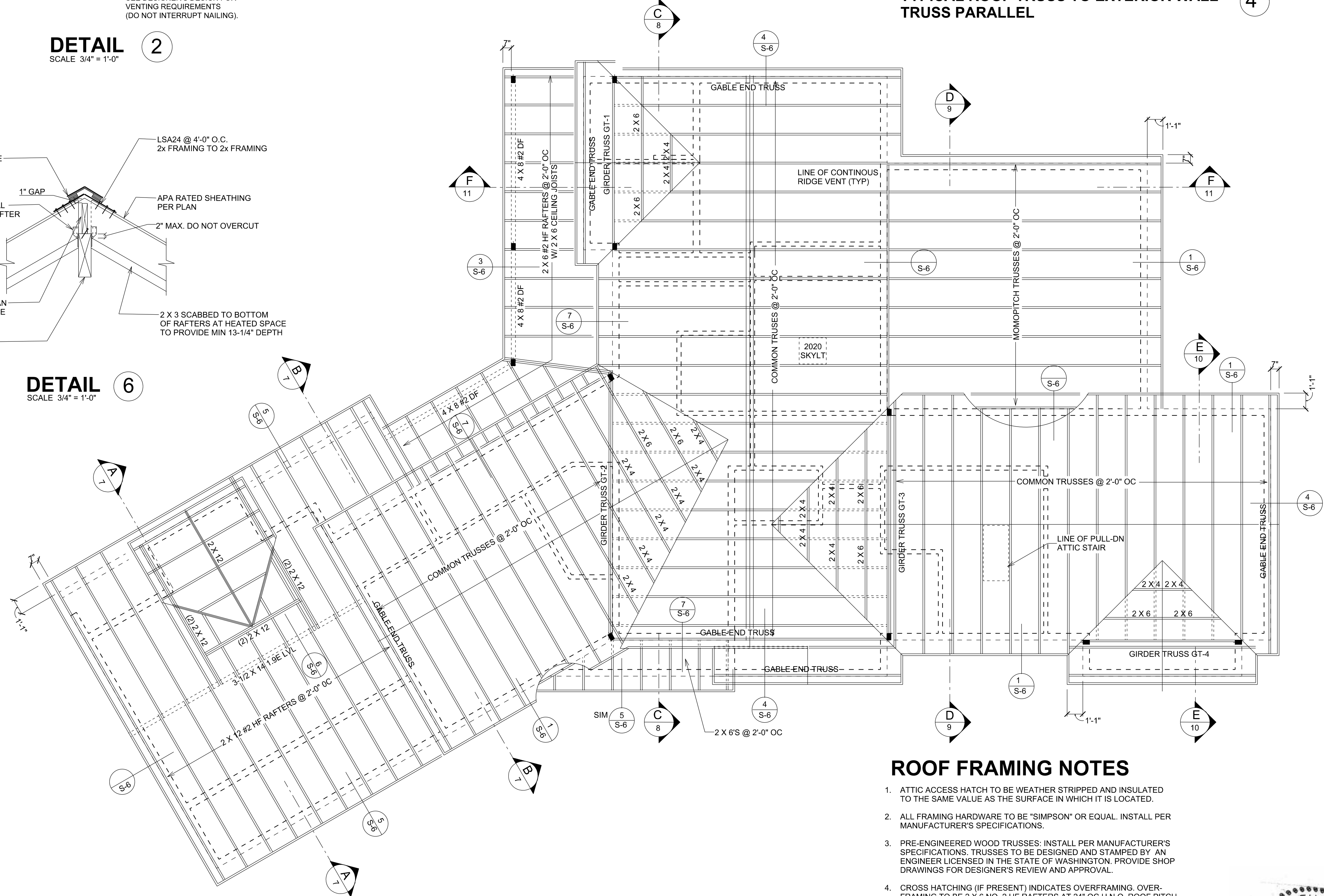
DETAIL 5
SCALE 1/4" = 1'-0"



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



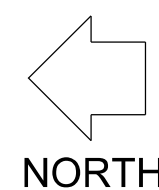
DETAIL 7
SCALE 3/4" = 1'-0"



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.

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



REVISION EDITION	1	2	3	4
DRAWN BY:				
CHECKED BY: A.G.				
DATE: 11-30-2021				

PROPOSED NEW RESIDENCE
EDWARD & CATHERINE MORAN
5000 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)	
								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

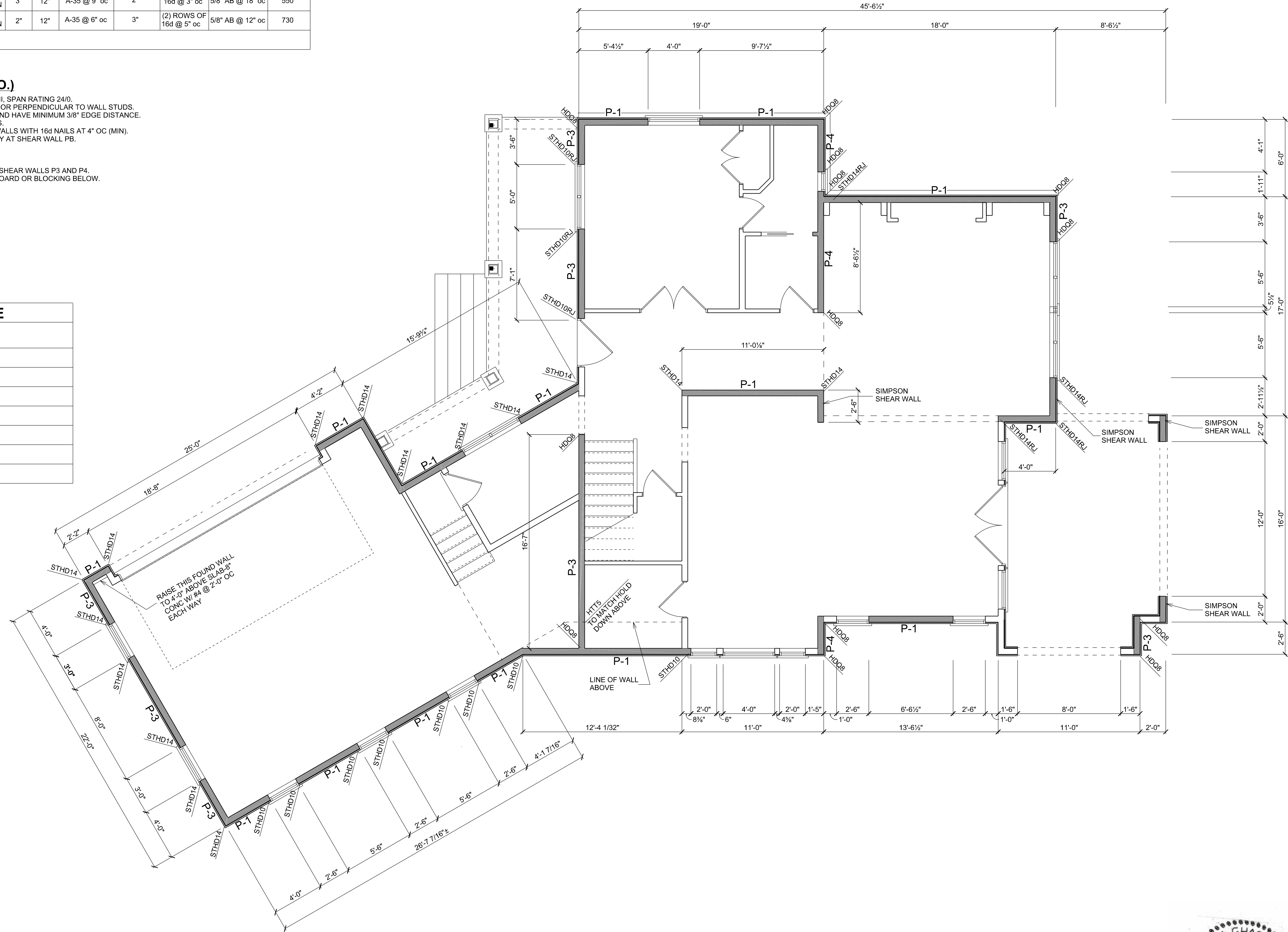
SHEAR WALL & HOLD-DOWN NOTES (U.N.O.)

- APA RATED SHEATHING SHALL BE EXP1/EXP2/EXT OR C-C/C-D/D-STRUCT II, SPAN RATING 24/0.
- PLYWOOD AT SHEAR WALLS MAY BE LAID WITH FACE GRAIN PARALLEL OR PERPENDICULAR TO WALL STUDS.
- 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 TRANSVERSE 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.
- SOLID BLOCKING SHALL BE INSTALLED AT ALL PLYWOOD JOINTS.
- BOTTOM PLATE SHALL BE 3X NOMINAL AT SHEAR WALLS P3 AND P4.
- STUDS AND BLOCKING AT PLYWOOD JOINTS SHALL BE 3X NOMINAL AT SHEAR WALLS P3 AND P4.
- 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

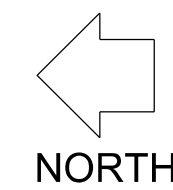
HOLD-DOWN SCHEDULE

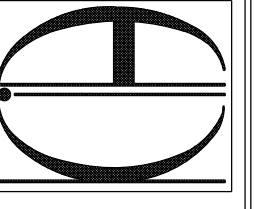
HOLD-DOWN OR STRAP	POST/END STUD (MIN)	NAILS/BOLTS
CS16	2X	(22) 10d X 2-1/2"
(2) CS16	(2) 2X	(44) 10d X 2-1/2"
CMSTC16	(2) 2X	(50) 10d X 3-1/4"
HTT5	(2) 2 X 6 OR 4 X 6	(26) 16d X 1-1/2" SIMPSON SB 5/8" X 24 BOLT
HDQ8	4 X 6	(20) 1/4" X 3" SDS SCREWS SIMPSON SB 1" X 30" BOLT
STHD10/10RJ	(2) 2X	(28) 10d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



MAIN LEVEL SHEAR WALL PLAN

SCALE 1/4" = 1'-0"

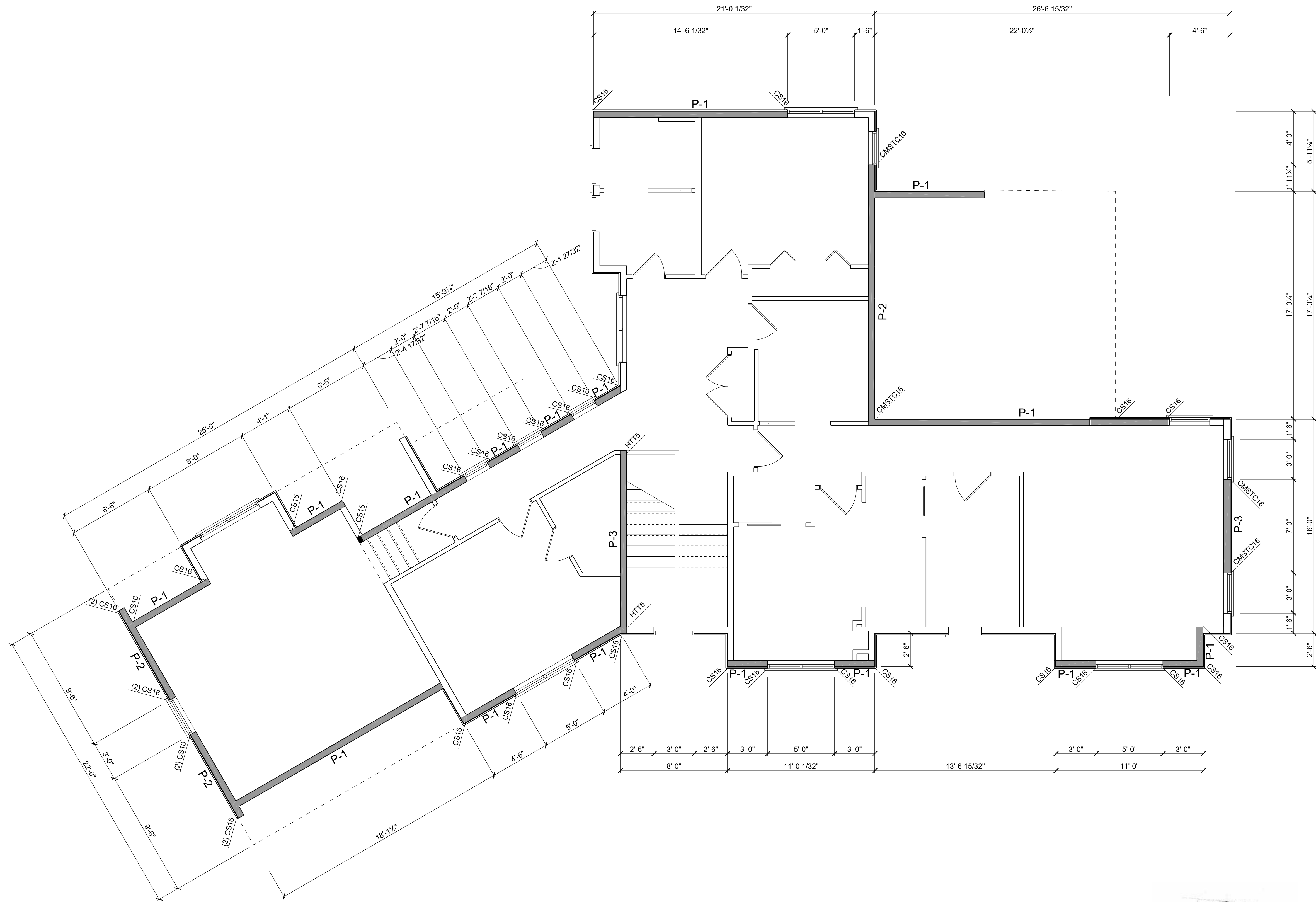


REVISION EDITION	1	2	3	4
DRAWN BY:				
CHECKED BY: A.G.				
DATE: 11-30-2021				
				
IRVINE, WA 98148-6899 P.O. BOX 7265 BELLEVUE, WA 98008 K.I.A. CO. CONSULTING STRUCTURAL ENGINEERS				

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

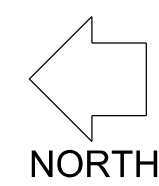
MAIN LEVEL SHEAR WALL PLAN

SHEET	S-7
OF	1
JOB #	



UPPER LEVEL SHEAR WALL PLAN

SCALE 1/4" = 1'-0"

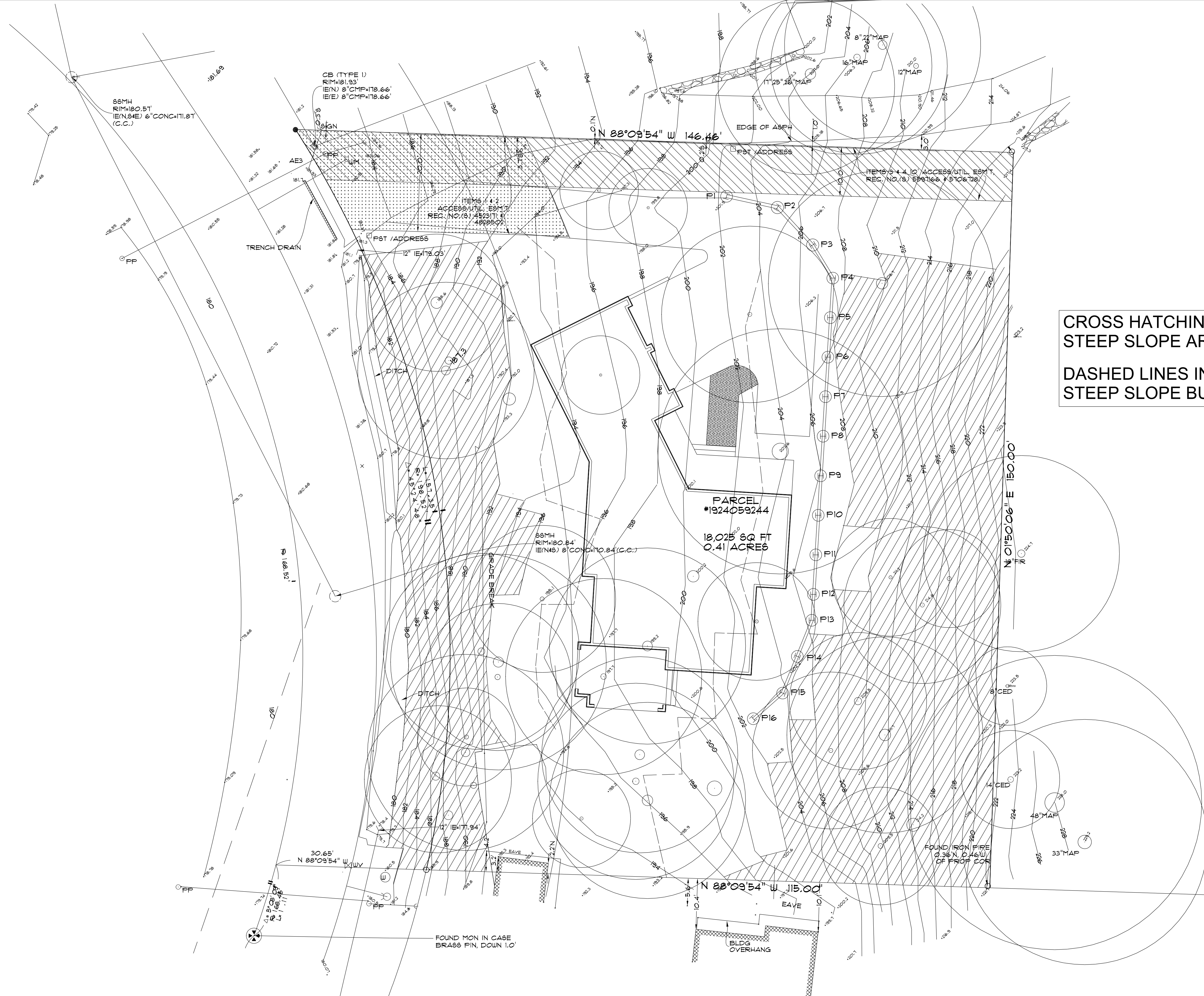


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4	

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

UPPER LEVEL SHEAR WALLS

SHEET
S-8
 OF
 -
 JOB #



CROSS HATCHING INDICATES
STEEP SLOPE AREAS

DASHED LINES INDICATE
STEEP SLOPE BUFFER

SHORING PLAN
SCALE: 1/16"=1'-0"

1. SEE SOIL'S REPORT FOR RECOMMENDATIONS DURING EXCAVATION AND TEMPORARY SHORING.
2. MAXIMUM TEMPORARY CUT SLOPE IS: 1.5H:1V
3. CONTRACTOR MAY REVISE THE NUMBER OF PILES ACCORDING TO SITE CONDITION WITH SOIL'S ENGINEER AND STRUCTURAL ENGINEER APPROVAL.
4. SOIL'S ENGINEER SHALL INSPECT AND APPROVE ALL EXCAVATION AND PILE PLACEMENT. PROVIDE SPECIAL INSPECTION BY GEOTECH PER 2018 IBC.
5. SEE SHEET SH-2 FOR PILE SCHEDULE

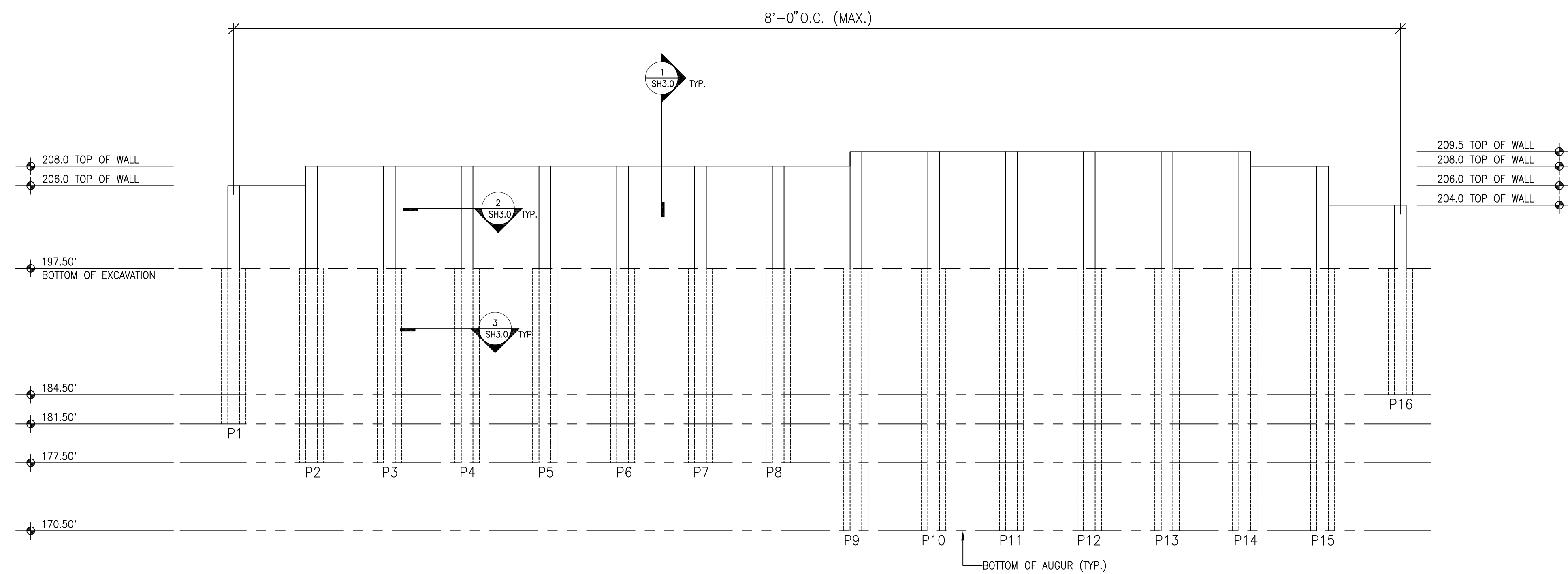


PHONE: 425-381-5898 P.O. BOX 1185 BELLEVUE, WA 98009		REVISION EDITION
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	DATE: 11-30-2021	2
		3
		4

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

SHORING WALL PLAN

SHEET
SH-1
OF
3

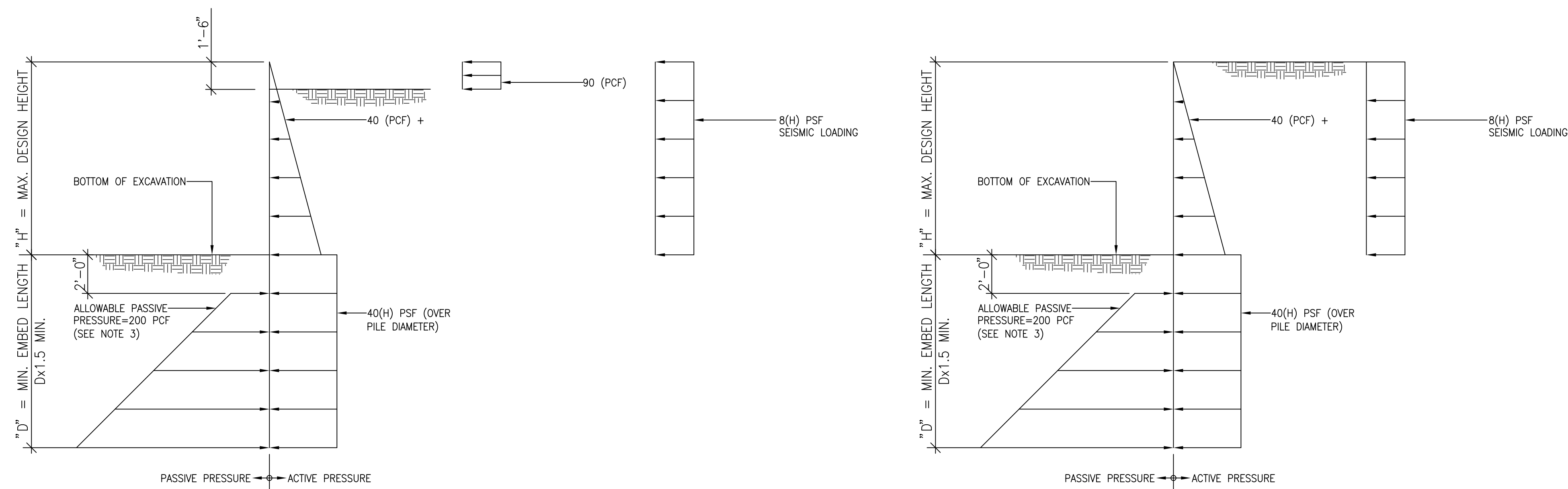


NOTES:

- SAFETY FACTOR = 1.2 (PER SOIL'S REPORT)
- MINIMUM EMBEDMENT SOLDIER PILE BELOW THE BASE OF EXCAVATIONS PER PILE SCHEDULE ON SHEET SH-1.
- PASSIVE EARTH PRESSURE IS TAKEN OVER 2-PILE DIAMETERS.
- EARTH PRESSURE ON LAGGING BETWEEN SOLDIER PILES IS REDUCED BY 50% PER SOIL'S REPORT.
- MAXIMUM PILE SPACING IS 8'-0".
- CONTRACTOR TO VERIFY EXISTING GRADES.
- SEE SOIL'S REPORT FOR RECOMMENDATION DURING EXCAVATION AND TEMPORARY SHORING.
- SOIL'S ENGINEER SHALL PROVIDE SPECIAL INSPECTION PER 2018 IBC.
- PROVIDE SURVEY MONITORING PROGRAM AS REQUIRED BY THE SOIL'S ENGINEER.
- 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"	P16
8'-6"	16'-0"	W16X31	30"	8'-0"	P1, P2
10'-6"	20'-0"	W16X50	30"	8'-0"	P3, P4, P5, P6, P7, P8,
12'-0"	27'-0"	W16X100	30"	8'-0"	P9, P10, P11, P12, P13, P14, P15,

3 SOIL PRESSURE DIAGRAM (P1 THRU P8 & P16)

2 SOIL PRESSURE DIAGRAM (P9 THRU P15)

REVISION EDITION

1	2	3	4
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DRAWN BY: _____
 CHECKED BY: A.G.
 DATE: 11-30-2021

PHONE: 425-351-5899
 P.O. BOX 7255
 BELLEVUE, WA 98008

EDWARD & CATHERINE MORAN
 CONSULTING STRUCTURAL ENGINEERS

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

ELEVATIONS & NOTES

GENERAL SHORING NOTES

- CODE REQUIREMENTS: ALL DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2015 EDITION.
- 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.
- DESIGN LOADS: IN ADDITION TO THE DEAD LOADS, THE SOIL PRESSURES SHOWN ON SHEET SH2.0 WERE USED FOR THE DESIGN.
- 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.
- 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.
- 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.

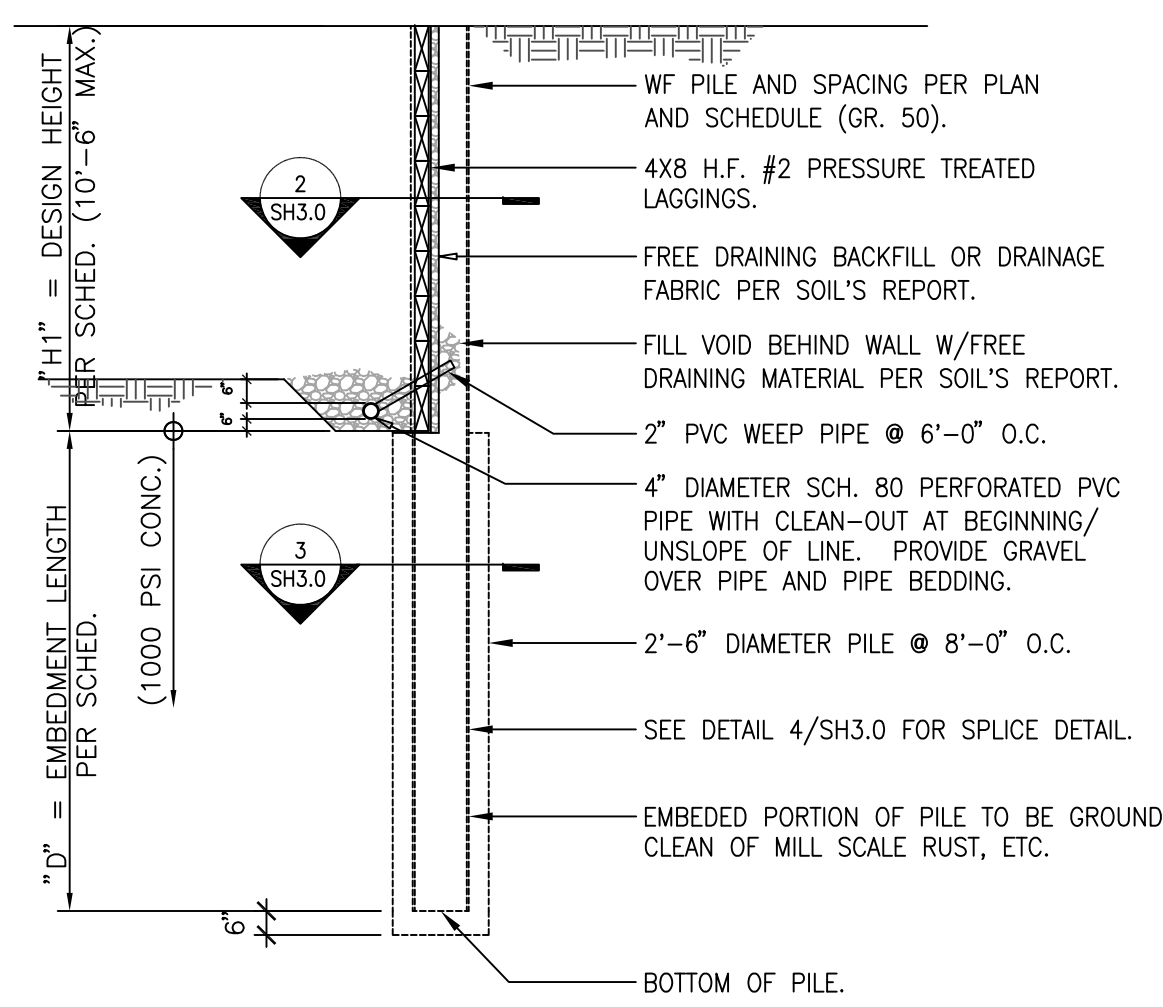
fc' (PSI)	MIN. CEMENT PER CUBIC YARD	USE
1000	1 1/2 SACKS	PILE STRUCTURAL GROUT

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.

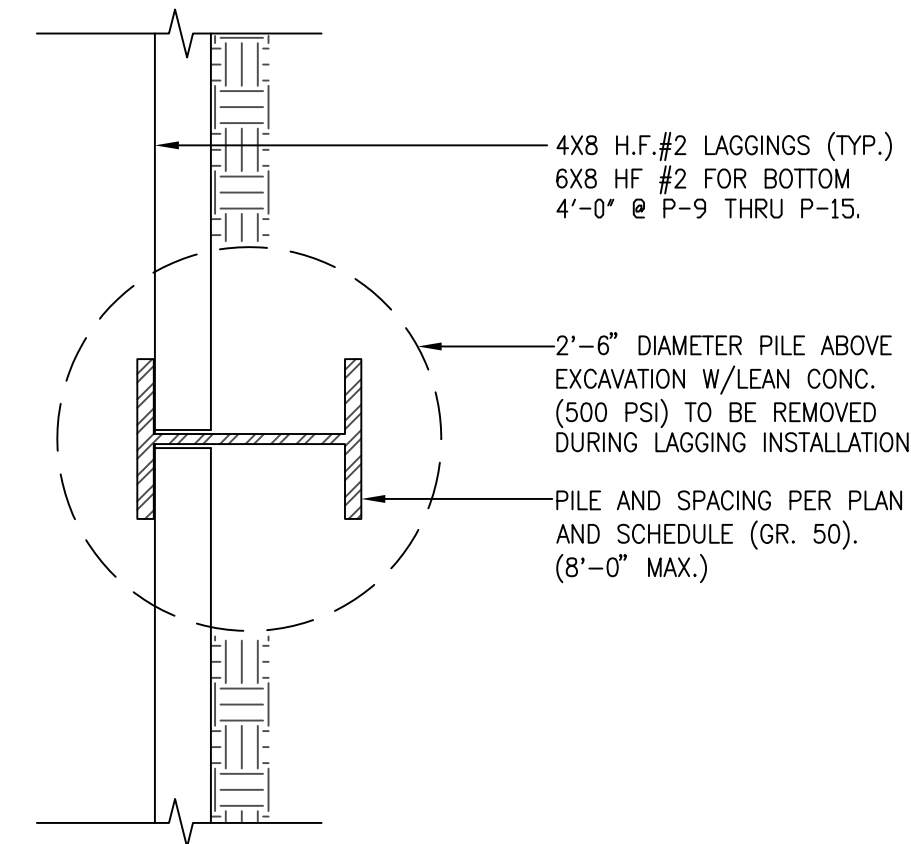
- STEEL: DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
 - SPECIFICATIONS: AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
 - WELDING: AWS D1.1, LATEST EDITION. AWS PREQUALIFIED JOINT DETAILS.
 - WELDER CERTIFICATION: WASHINGTON ASSOCIATION OF BUILDING OFFICIALS (WABO)
 - WIDE FLANGE: ASTM A 992 (Fy=50,000 PSI)
 - WELDING ELECTRODES: E70XX
- TIMBER LAGGING: 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.
- SOILS: SEE REPORT OF GEOTECHNICAL INVESTIGATION FOR MORE COMPLETE INFORMATION, INCLUDING RECOMMENDATIONS FOR SHORING IN GENERAL, SHORING, MONITORING, EXCAVATION, DRAINAGE AND SITE PROTECTION.
- FINAL TOP OF PILE: TOP OF PILES SHALL BE CUT OFF A MINIMUM OF ONE FOOT BELOW TOP OF GRADE.

SHORING PROCEDURE

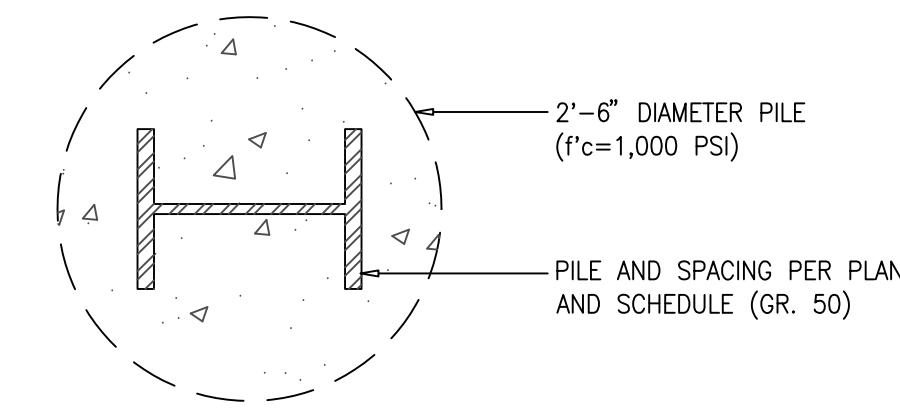
- HOLE DIGGING: PILE HOLES SHALL BE DRILLED WITHOUT LOSS OF GROUND AND WITHOUT ENDANGERING PREVIOUSLY INSTALLED PILES. THIS MAY INVOLVE CASING THE HOLES OR OTHER METHODS OF PROTECTION FROM CAVING. SEE GEOTECHNICAL REPORT AND SURVEY FOR POSSIBLE OBSTRUCTIONS AND RECOMMENDATIONS.
- LAGGING: TIMBER LAGGING 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.
- 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.
- 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.



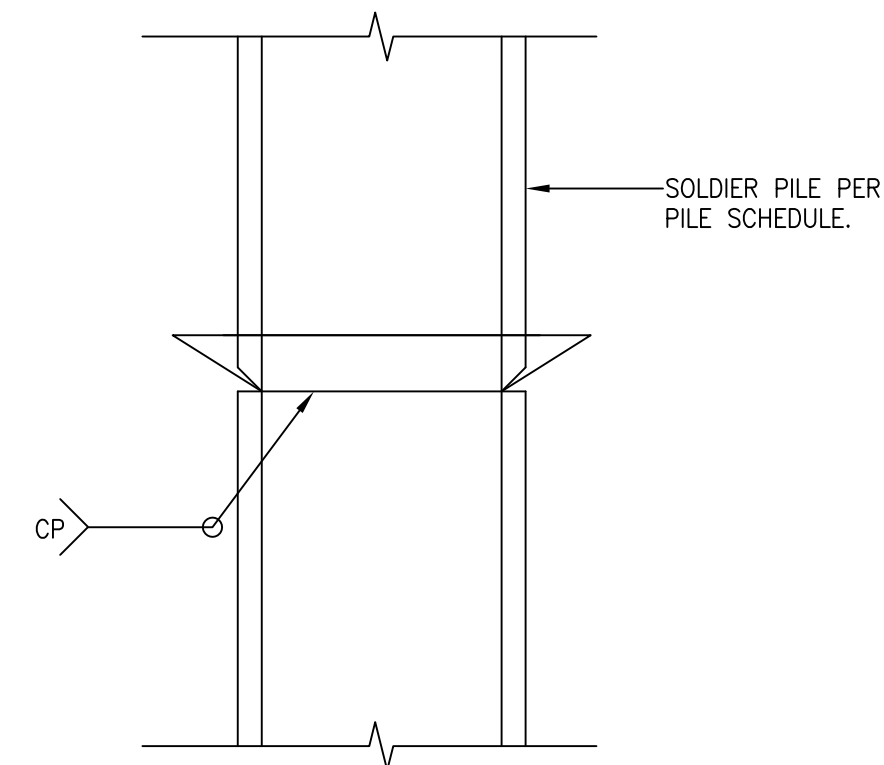
1 CANTILEVER PILE DETAIL
SCALE: 1/4"=1'-0"



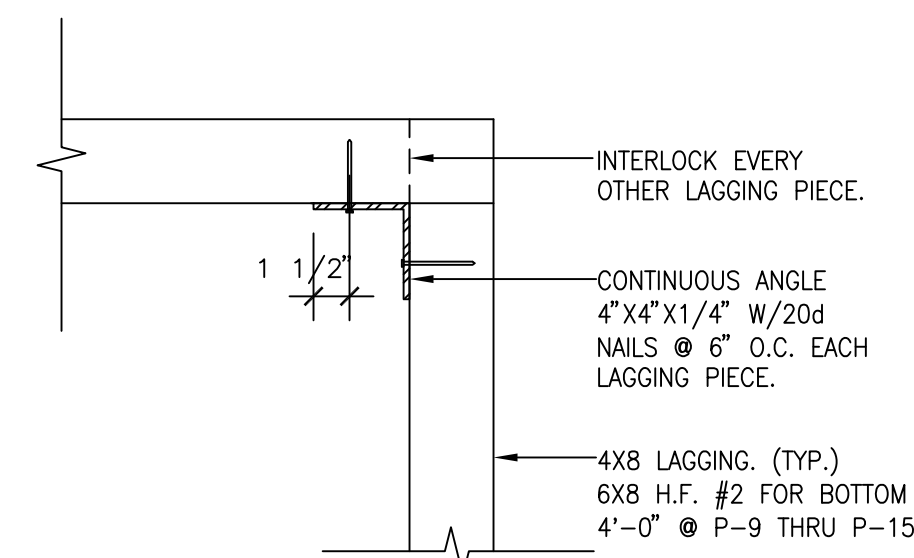
2 PILE SECTION DETAIL
SCALE: 1"=1'-0"



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



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



5 CORNER DETAIL
SCALE: 1 1/2"=1'-0"

PILE SCHEDULE

"H" (FT) MAX. HT	"D" (FT) MIN. EMBED	PILE SECTION Fy=50 KSI	AUGER DIAMETER (INCHES)	SPACING DN CENTER	PILE NUMBER
6'-6" OR LESS	13'-0"	W16X26	30"	8'-0"	P16
8'-6"	16'-0"	W16X31	30"	8'-0"	P1, P2
10'-6"	20'-0"	W16X50	30"	8'-0"	P3, P4, P5, P6, P7, P8
12'-0"	27'-0"	W16X100	30"	8'-0"	P9, P10, P11, P12, P13, P14, P15

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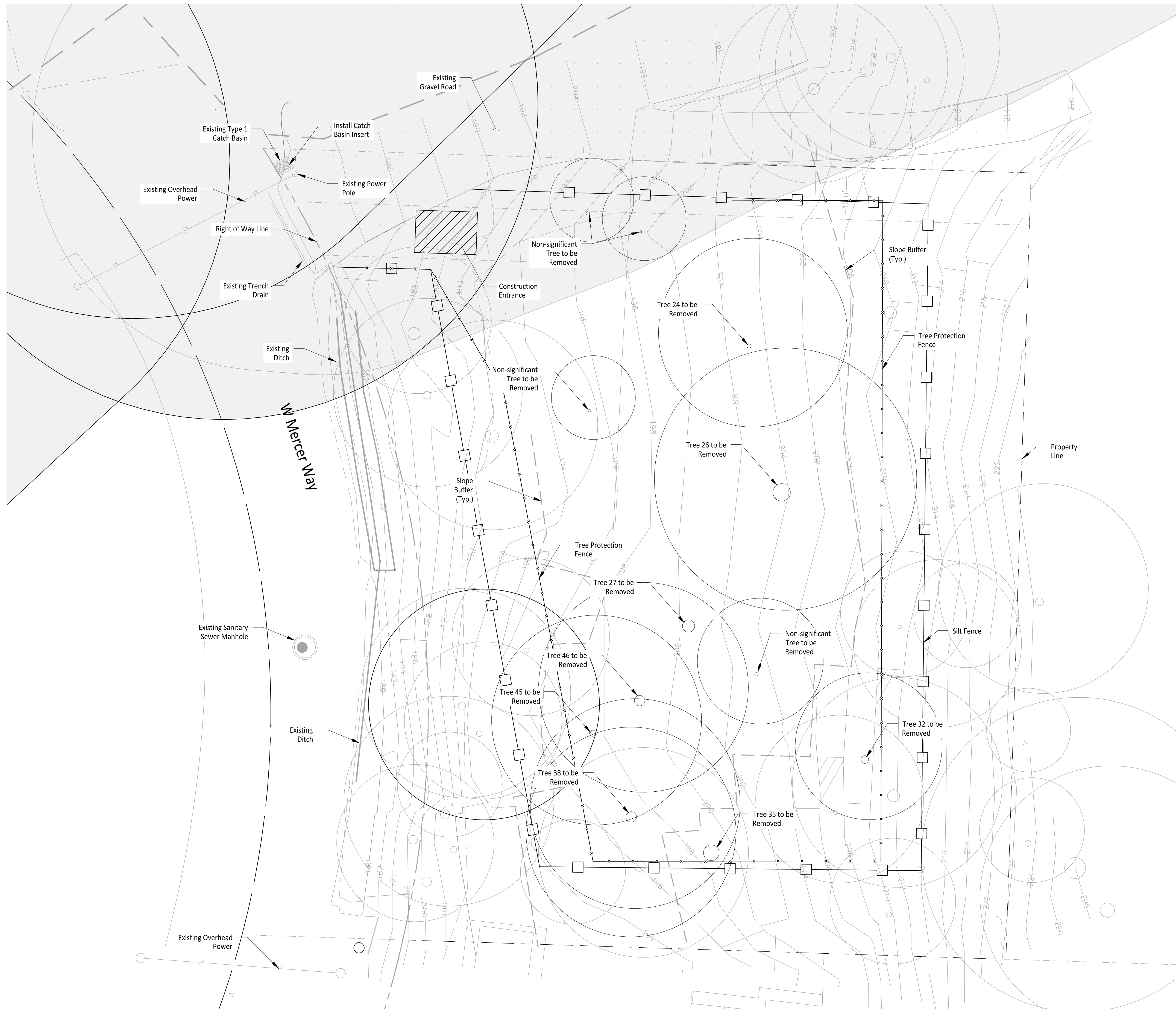
1	2	3	4
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DRAWN BY: _____
CHECKED BY: A.G.
DATE: 11-30-2021

PHONE 425-351-5999
P.O. BOX 7255
BELLEVUE, WA 98008

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

PLANS



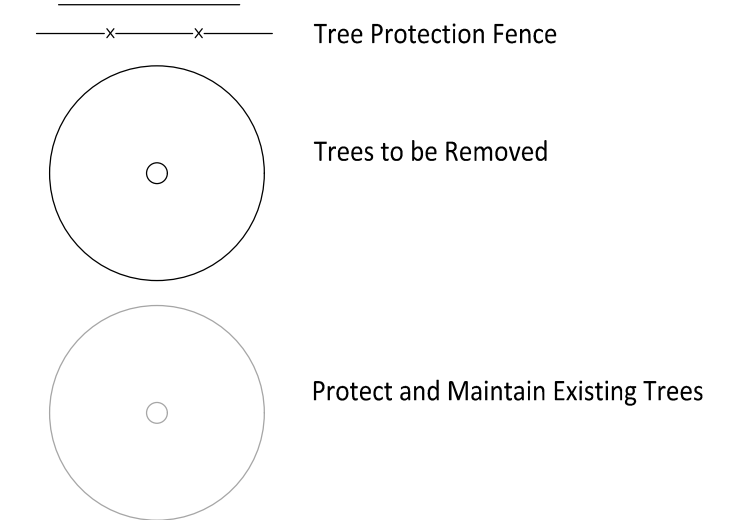
TESC NOTES

- Contractor to install temporary erosion and sediment control measures as necessary to ensure stormwater leaving the site is free of settleable solids.
- Roads shall be cleaned thoroughly as needed to protect stormwater infrastructure and downstream water resources. Sediment shall be removed from roads by shoveling or pickup sweeping and be transported to a controlled sediment disposal area.
- Install storm drain inlet protection in all existing catch basins within the project vicinity per City of Mercer Island Detail 4.2.8.
- Install Stabilized Construction Entrance per City of Mercer Island Detail 4.1.1.
- Install Silt Fence as necessary. See City of Mercer Island Detail 4.2.12.
- Install straw bale barriers, wattles and other TESC measures as necessary.
- Exposed soils shall be watered as necessary to prevent dust from leaving the site.
- Contractor to mark clearing limits with lath and flagging.
- Concrete handling and equipment washing shall in accordance with DOE BMP C151.

GENERAL NOTES

- See Tree Inventory Tables in Arborist Report included in this submittal.

LEGEND



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:

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

Project:

Moran Residence

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY



REV	DATE	DESCRIPTION

SHEET TITLE:
Existing Site & TESC Plan

PROJ. NO: 1576001

DATE: April 20, 2022

DRAWN BY: DESIGN BY:

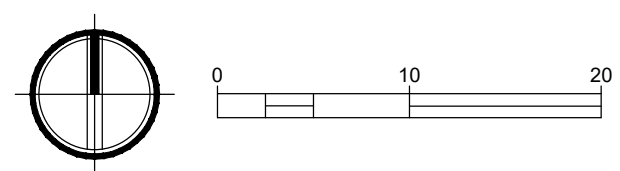
SHEET NUMBER:

C-01

DWG.

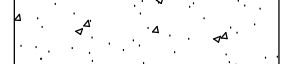
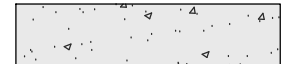
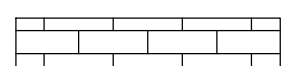
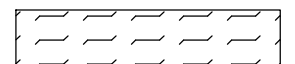
CALL TWO BUSINESS DAYS
BEFORE YOU DIG
1-800-424-5555
UTILITIES UNDERGROUND LOCATION CENTER

File: 1576001C-Ex.dwg Path: J:\1576 - Moran\001 - W Mercer Way\CAD Plotted by: JMJ Team Date: 20-Apr-22 11:40:33am





LEGEND

-  Proposed Concrete
-  Proposed Concrete with Brushed Surface
-  Proposed Permeable Pavers
-  Landscaping/Native Vegetation

GENERAL NOTES

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

LOT COVERAGE

Proposed Lot Coverage		
	Impervious Areas (SF)	Pervious Areas (SF)
Proposed House	2,664	
Proposed Driveway	1,793	
Proposed Retaining Walls	70	
Permeable Pavers		119
Landscaping/Vegetation		13,719
Totals	4,457	13,838
Lot Size	18,295	
Max Allowed Impervious Coverage	35% (6,403 SF)	
Impervious Lot Coverage	25%	

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:

Site & Grading Plan

PROJ. NO: 1576001

DATE: April 20, 2022

DRAWN BY:

DESIGN BY:

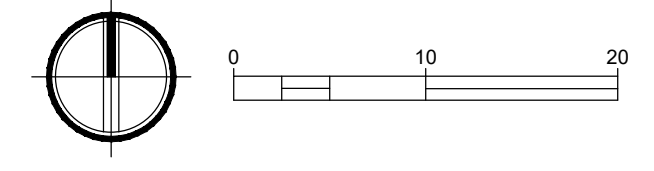
SHEET NUMBER:

C-02

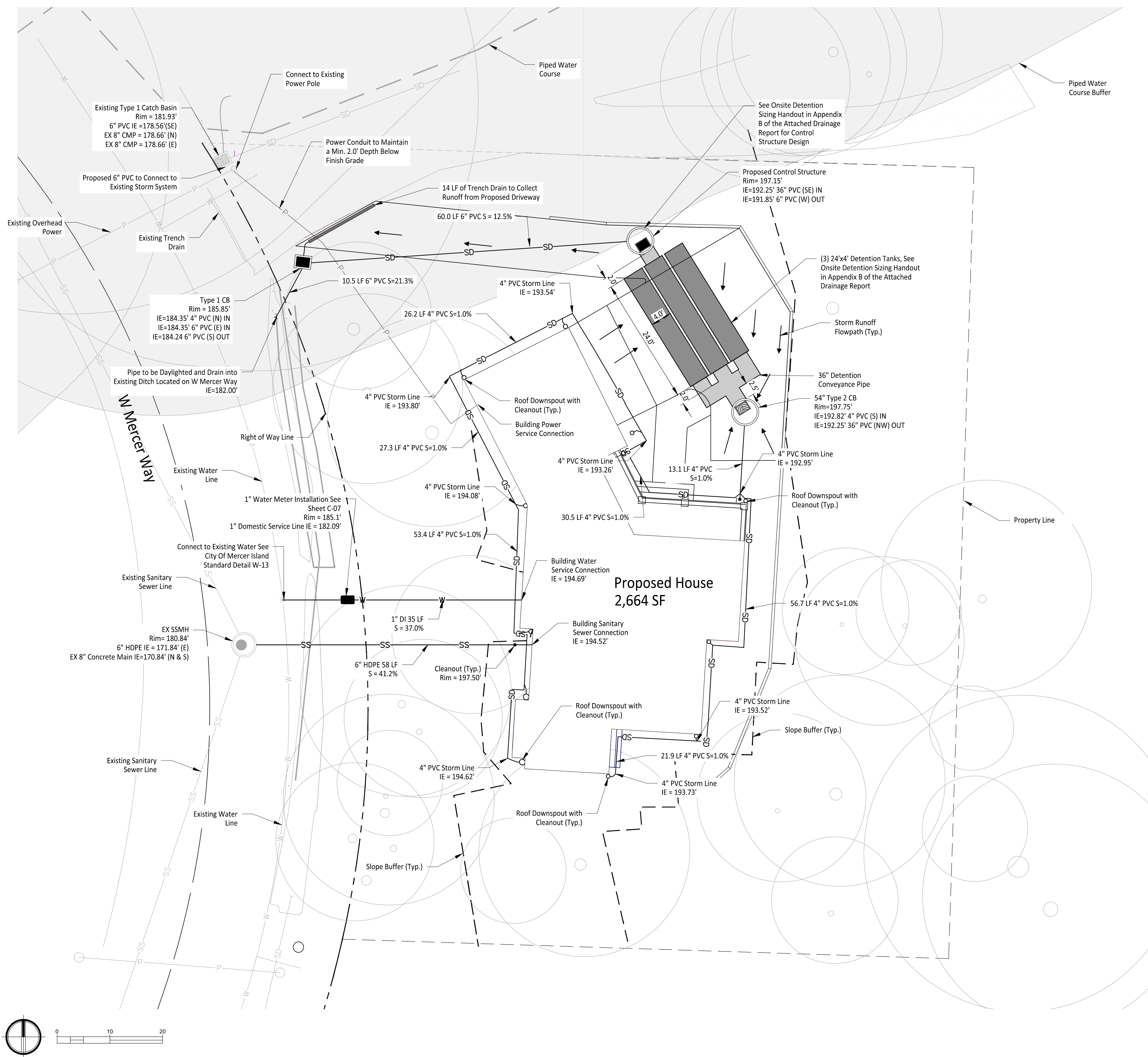
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File: 1576001C-SF.dwg Path: J:\1576 - Moran\001 - W. Mercer Way\CAD Plotted by: JMJ Team Date: 20-Apr-22 11:34:08am



File: 1576001C-STRM.dwg Path: J:\1576 - Moran\001 - W Mercer Way\CAD\ Plotted by: JMU Team Date: 20-Apr-22 2:35:17pm



LEGEND

- SS — Sanitary Sewer Line
- W — Water Line
- P — Power Conduit
- SD — 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" minus C.R.
- 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 for connections 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-05.
- Tapping Tee Installation see City of Mercer Island Detail on sheet C-05.

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 grade.
- Storm pipes to be SDR 35 PVC piping.
- Sanitary Sewer laterals to be solid wall HDPE piping.
- Sanitary Sewer Laterals to maintain 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.

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Project:

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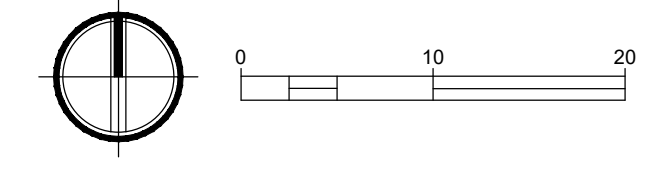
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REV	DATE	DESCRIPTION

SHEET TITLE
Utility Plan

PROJ. NO.	1576001
DATE	April 20, 2022
DRAWN BY:	DESIGN BY:

SHEET NUMBER
C-03



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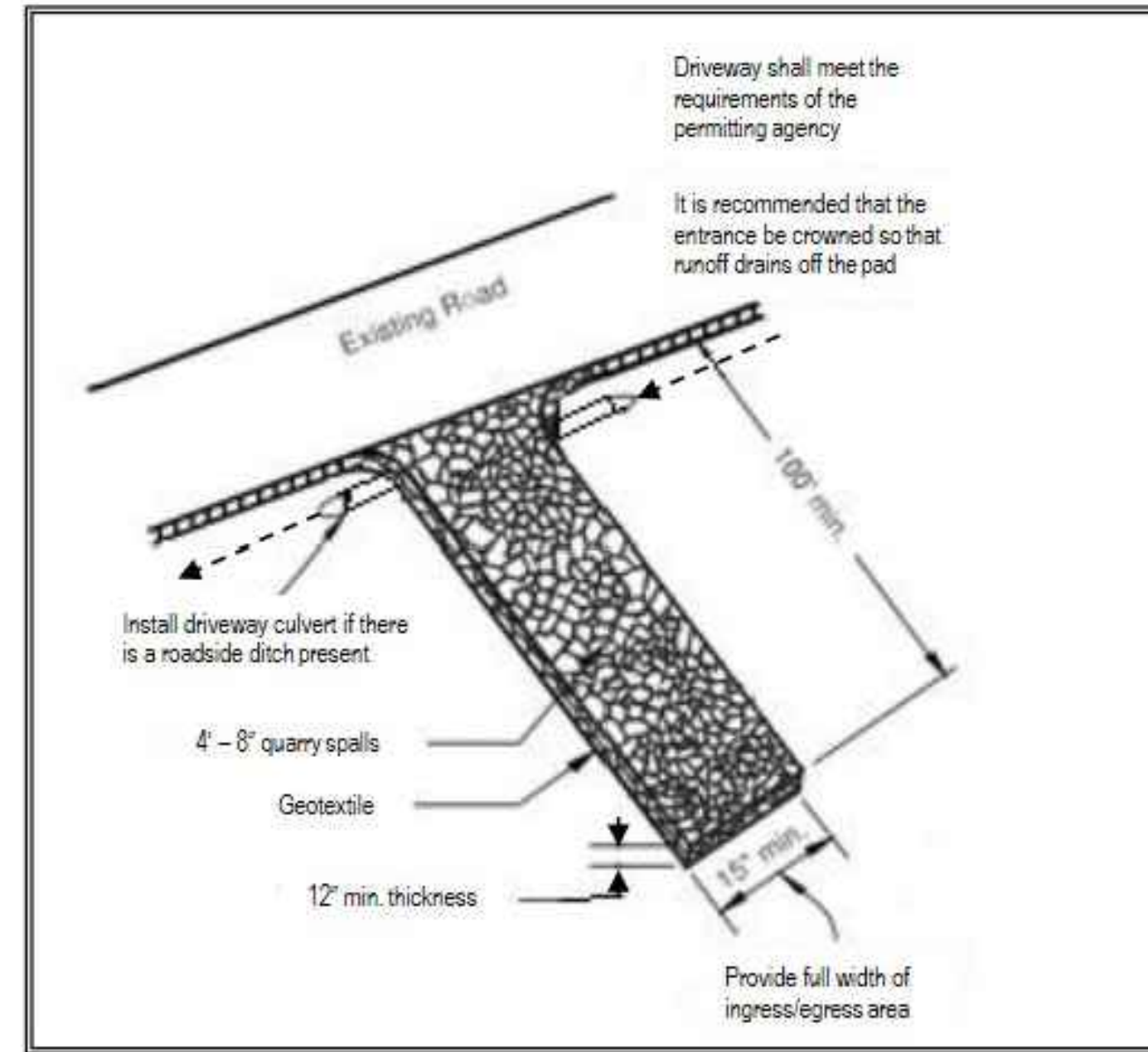
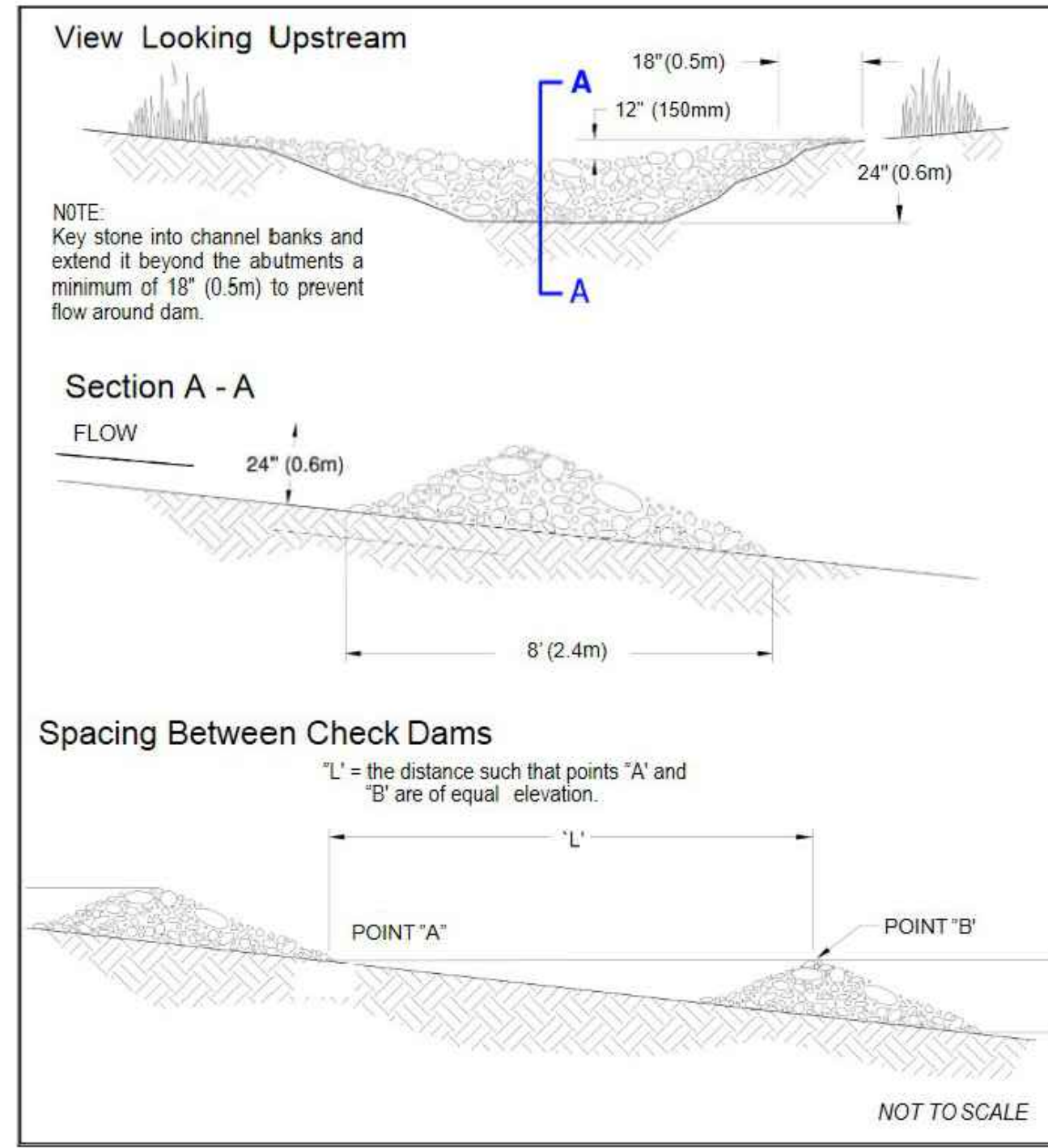


Figure 4.1.1 – Stabilized Construction Entrance

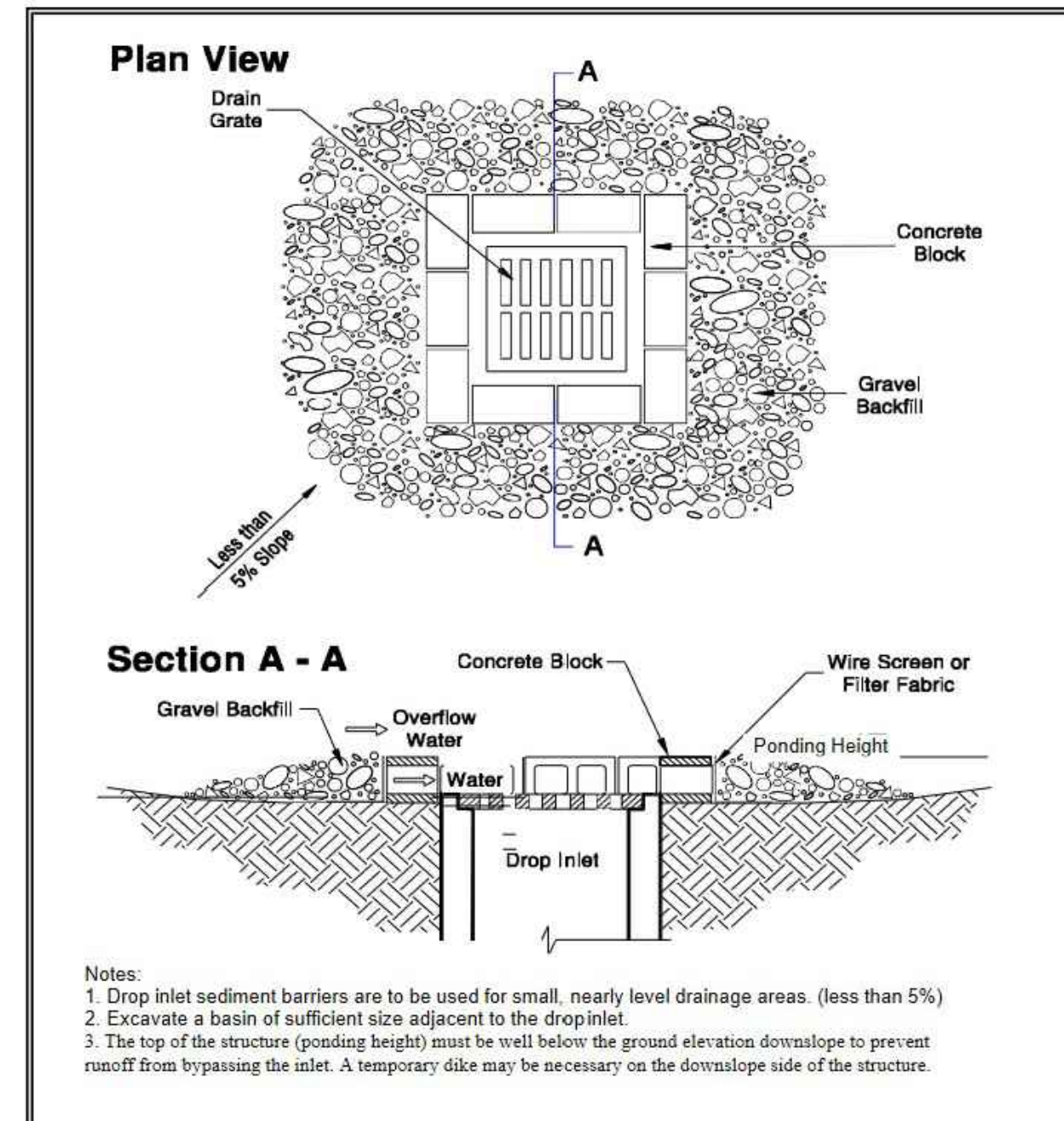


Figure 4.2.8 – Block and Gravel Filter

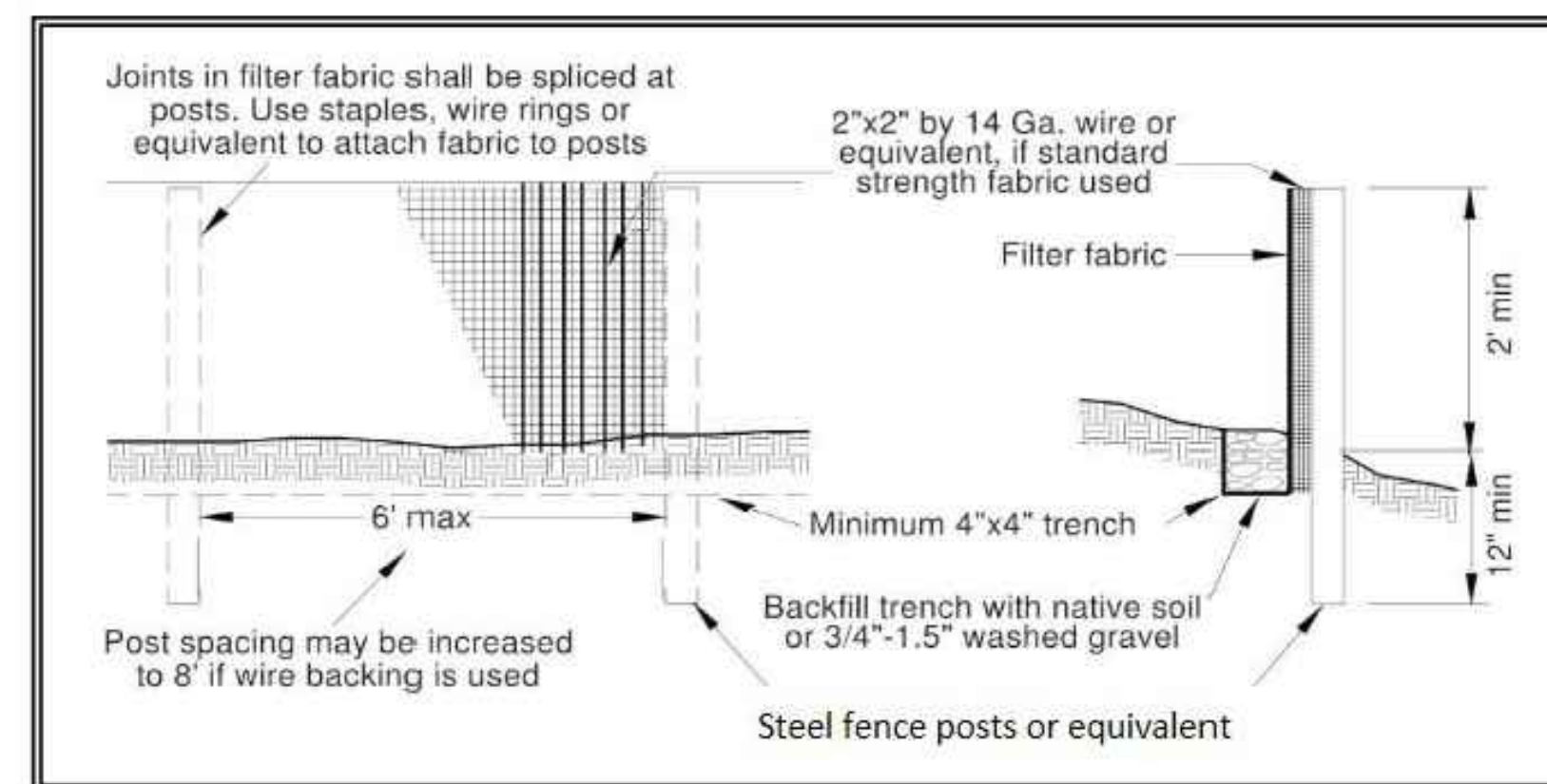


Figure 4.2.12 – Silt Fence

Owner/Developer:

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PROJ. NO. 1576001

DATE April 20, 2022

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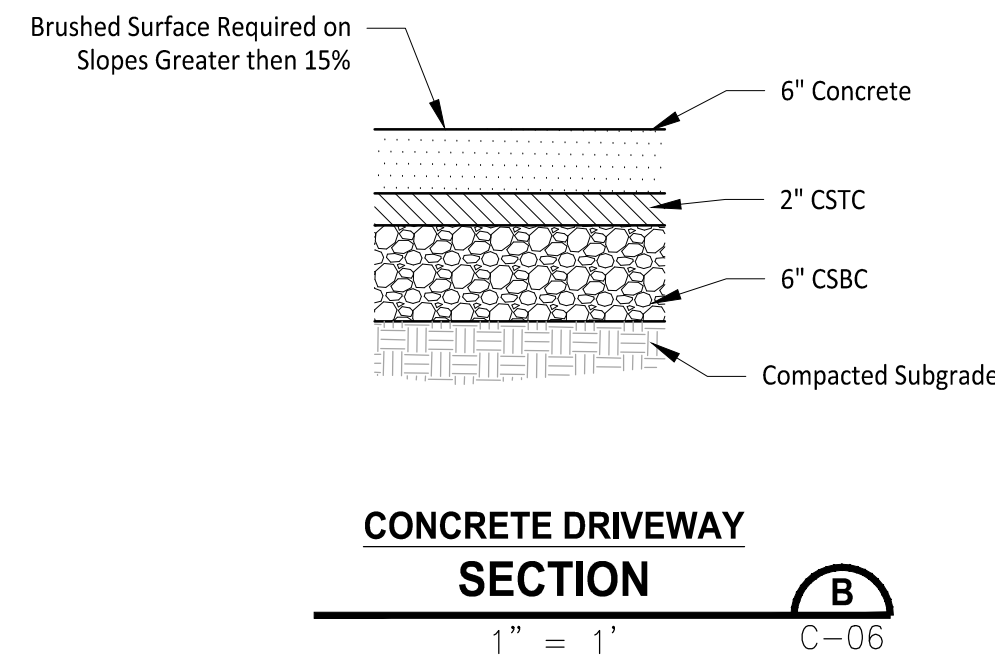
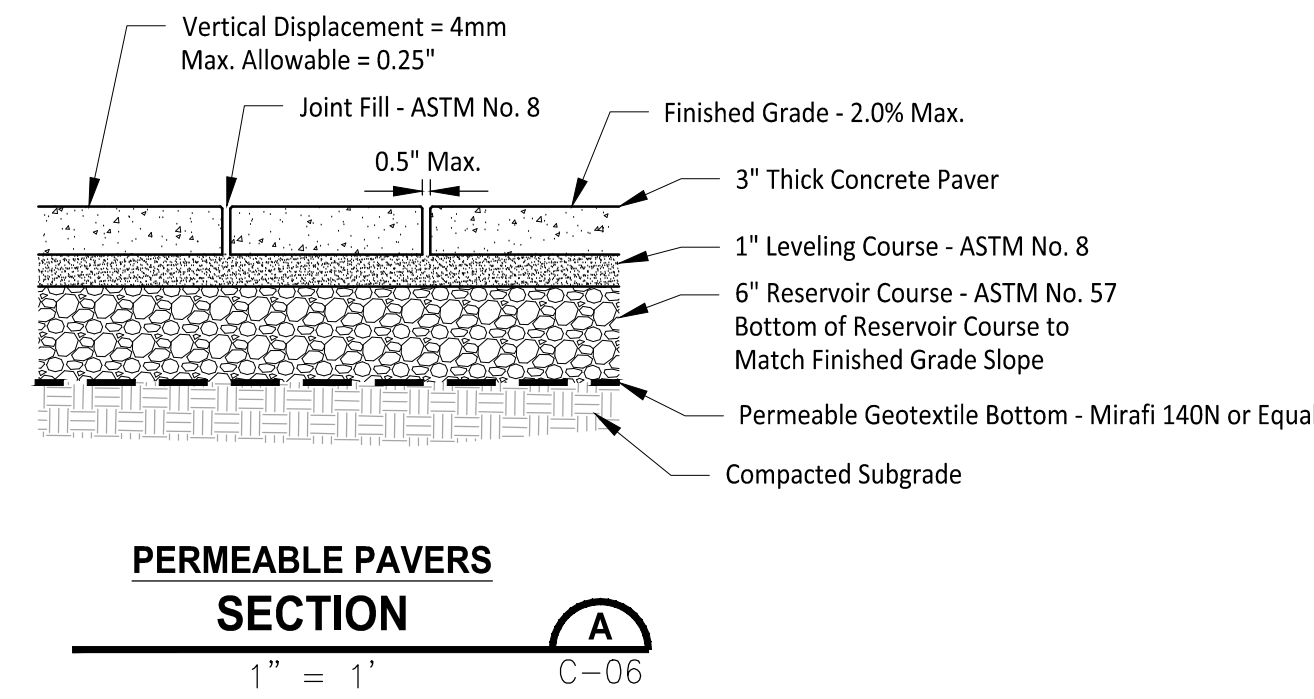
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TREE PROTECTION AREA (TPZ)

KEEP OUT!

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

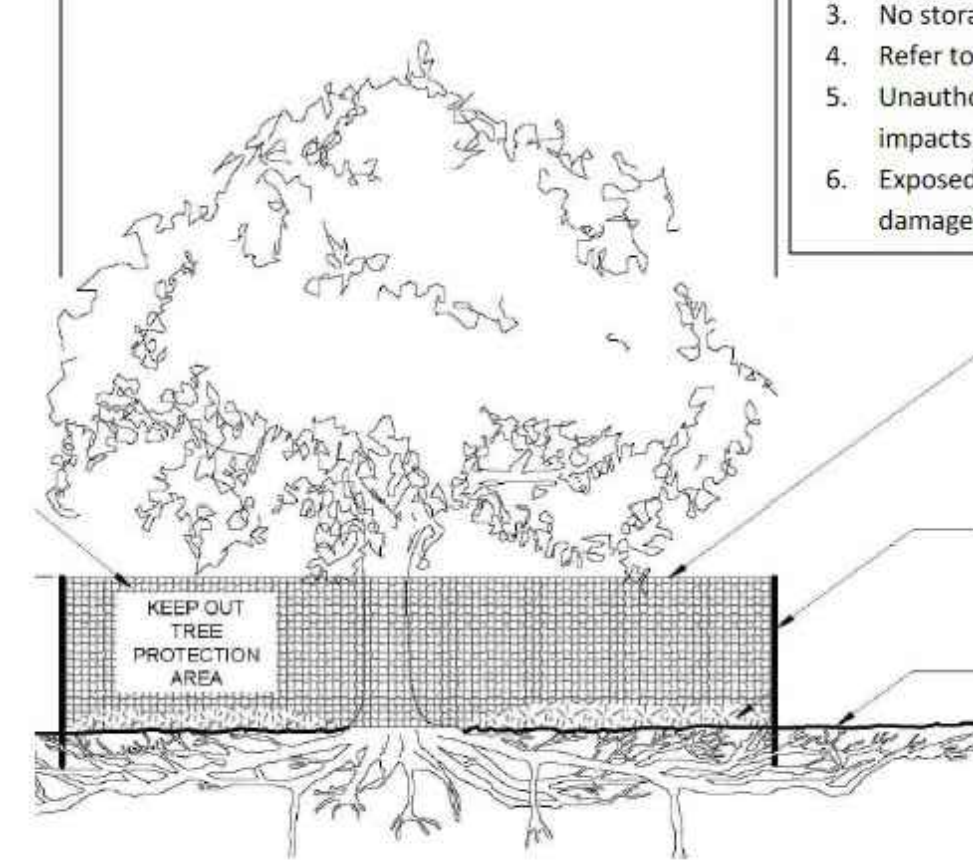
Trees enclosed by this fence are protected and are subject to the conditions of the tree permit. Violation of tree conditions may lead to:

1. Correction Notices or Stop Work Orders until compliance is achieved
2. RE Inspection Fees
3. Arborist reports recommending mitigation

Notes

1. No pruning shall be performed unless under the direction of an arborist
2. No equipment shall be stored or operated inside the protective fencing including during fence installation and removal
3. No storage of materials shall occur inside the protective fencing
4. Refer to Site/Utility Plan for allowable modifications to the tree protection area.
5. Unauthorized activities in tree protection area may require evaluation by private arborist to identify impacts and mitigation required
6. Exposed roots: For roots > 1" damaged during construction, make a clean straight cut to remove damaged portion and inform City Arborist

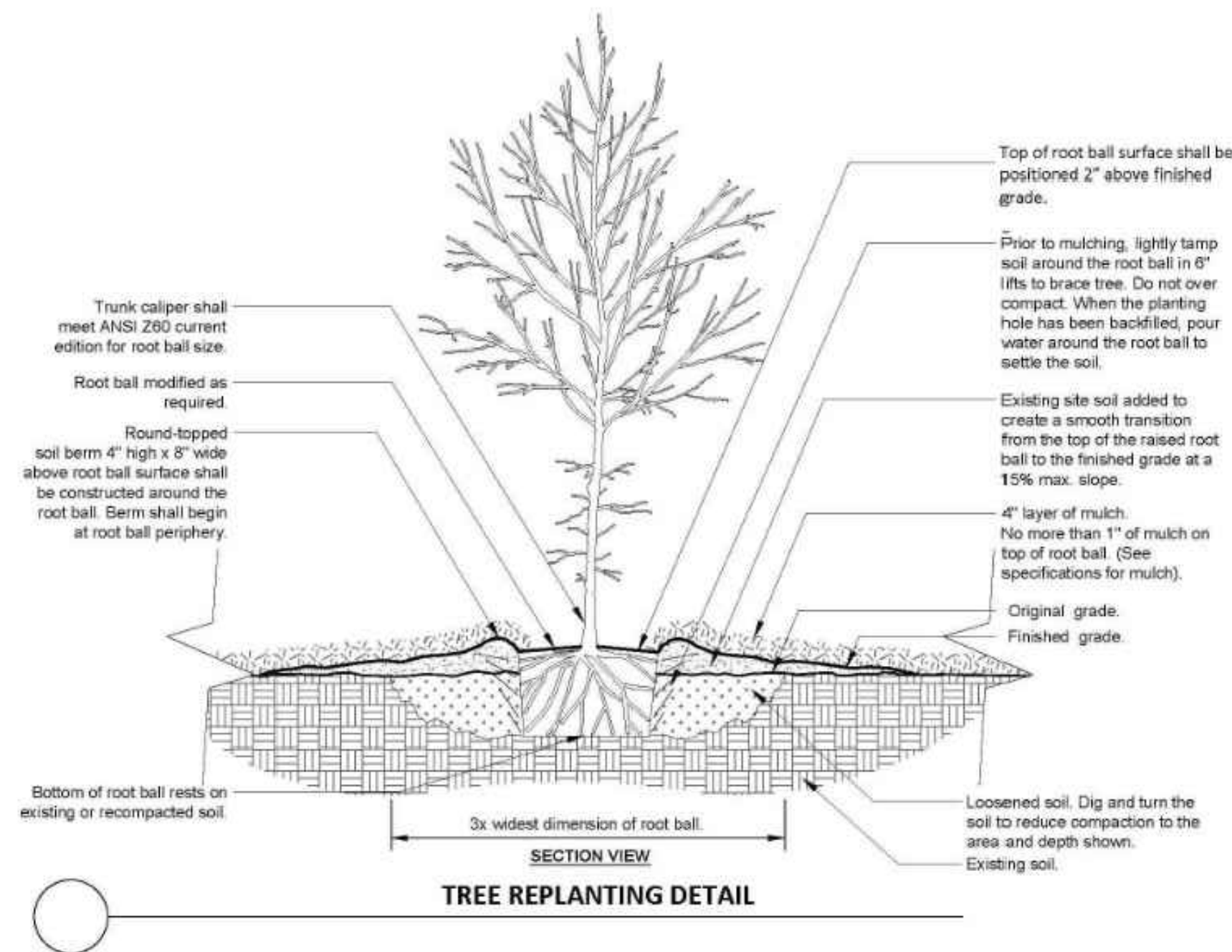
Crown drip line or other limit of Tree Protection area. See Site/Utility Plan for fence alignment.



Tree protection fence: 4-6" chain link fence, solidly anchored into the ground, or if authorized High-density polyethylene fencing with 3.5" x 1.5" openings; color orange. Steel posts installed at 8' o.c.

2" x 6" steel posts or approved equal

Maintain existing grade with the tree protection fence unless otherwise indication on the plans



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04-20-2022

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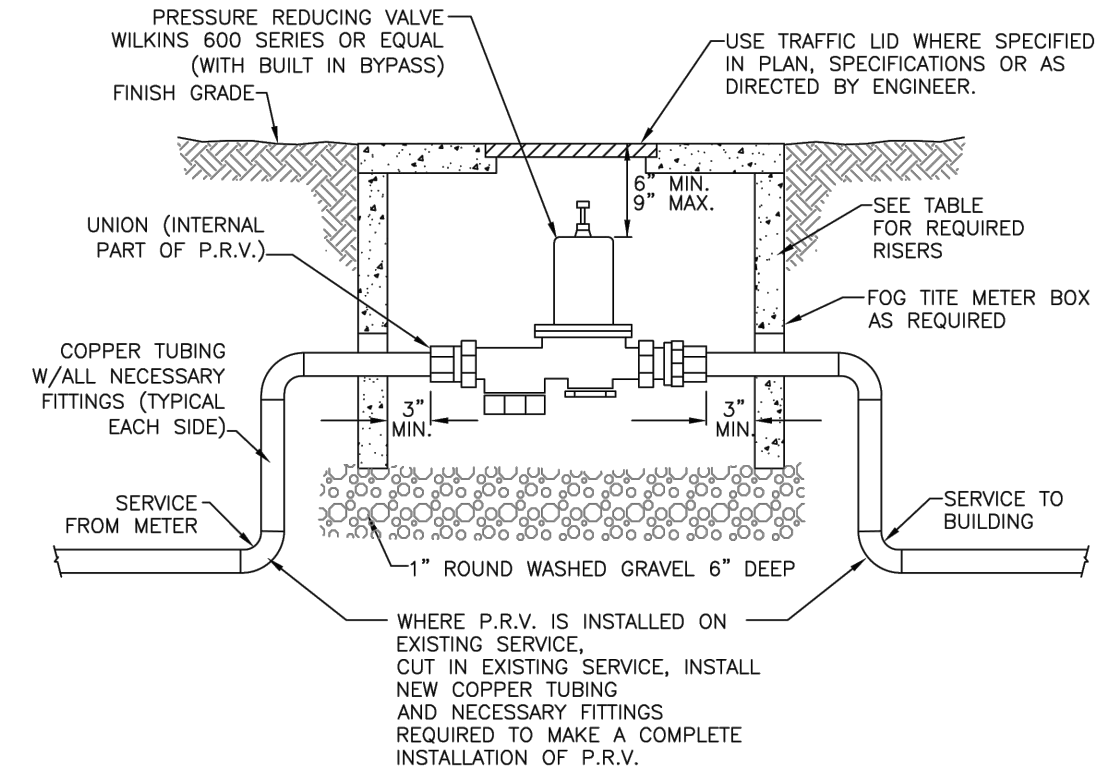
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P.R.V. SIZE	FOG TITE METER BOX NO.	RISER REQUIRED
2"	2	12"
1-1/2"	2	12"
1-1/4"	1	6"
1"	1	6"
3/4"	1	4"
1/2"	1	4"

NOTES
1. P.R.V. SHALL HAVE AN INTEGRAL BYPASS.

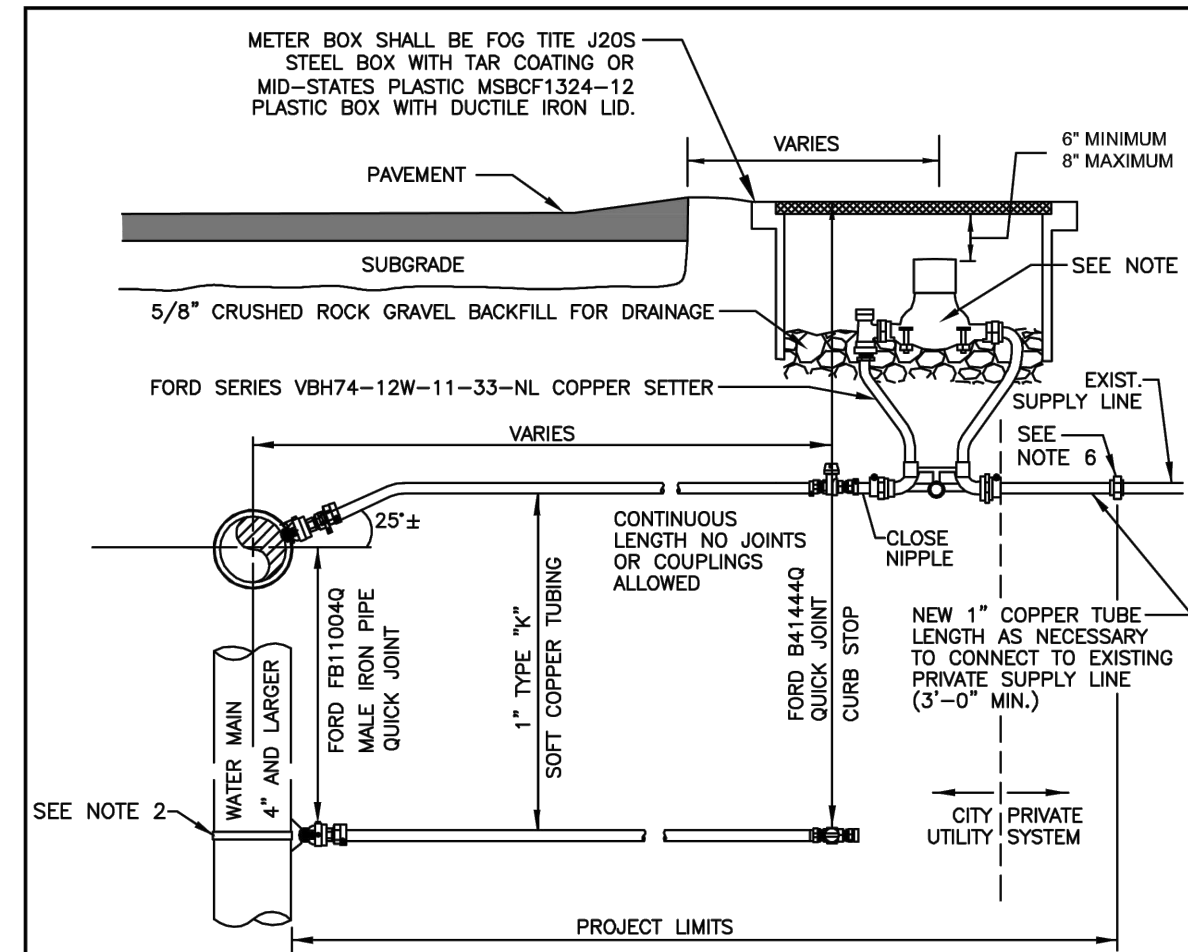


**CITY OF MERCER ISLAND
STANDARD DETAILS
WATER**

**RESIDENTIAL
PRESSURE REDUCING VALVE**

12-24-2013 NO SCALE **W-28**

REV DATE				APPROVED
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- NOTES**
1. WATER SERVICES SHALL COMPLY WITH THE REDUCTION OF LEAD IN DRINKING WATER ACT DATED 01/04/2014.
 2. ON EXISTING WATER MAINS USE NYLON COATED D.I. SADDLE WITH STAINLESS STEEL DOUBLE STRAPS, ROMAC 202NS, OR APPROVED EQUAL.
 3. MINIMUM DISTANCE BETWEEN CORP STOPS SHALL BE 18" MINIMUM DISTANCE BETWEEN TAPS, BETWEEN CORP STOP AND PIPE ENDS SHALL BE 24", ALL HORIZONALLY STAGGERED.
 4. PLASTIC METER BOXES SHALL NOT BE INSTALLED WITHIN ROADWAY, SIDEWALK, OR DRIVEWAYS.
 5. UPON CITY ENGINEER'S APPROVAL, METER BOXES ARE ALLOWED TO BE INSTALLED IN PORTLAND CEMENT CONCRETE PAVEMENT OR SIDEWALK.
 6. WHEN CONNECTING TO EXISTING PRIVATE SUPPLY LINE CONTAINING FERROUS METAL, PROVIDE INSULATING COUPLING (DB SERIES WITH C21 SERIES ADAPTERS) AND PROVIDE REDUCER AS NECESSARY TO MATCH EXISTING PRIVATE SUPPLY LINE DIAMETER.
 7. SERVICE LINE SHALL BE PERPENDICULAR TO THE WATER MAIN AND STRAIGHT TO WATER METER, UNLESS OTHERWISE APPROVED BY CITY ENGINEER. PROVIDE WINDING SLACK IN THE SERVICE LINE BETWEEN THE MAIN AND WATER METER.
 8. WATER METER SUPPLIED BY CITY.
 9. ALL FITTINGS TO BE BRASS COMPRESSION TYPE, FORD QUICK JOINT OR EQUAL.
 10. NO SERVICE CONNECTIONS BETWEEN BLOW-OFF AND END OF MAIN.

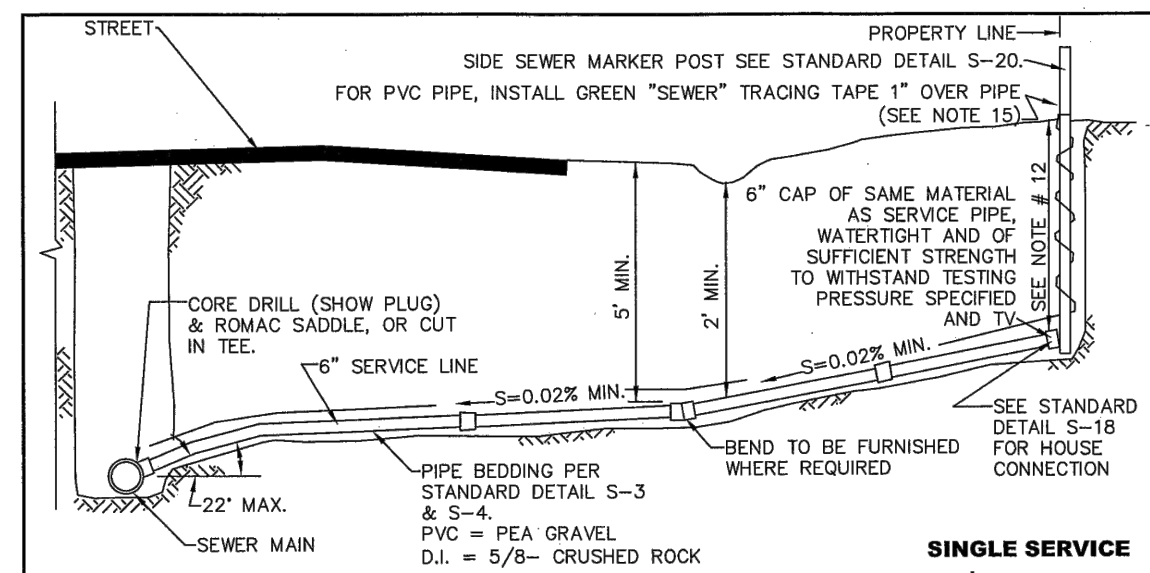


**CITY OF MERCER ISLAND
STANDARD DETAILS
WATER**

1" WATER METER INSTALLATION

02-05-2021 NO SCALE **W-13**

REV DATE				APPROVED
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- NOTES**
1. ELBOWS SHALL NOT BE GREATER THAN 45 DEGREES.
 2. CLEAN OUT IS REQUIRED FOR EACH PIPE LENGTH GREATER THAN 100' AND FOR EACH 90° ACCUMULATED ELBOW/100'
 3. RIGHT-OF-WAY RESTORATION SHALL MATCH OR EXCEED THE ORIGINAL CONDITION AND BE IN ACCORDANCE WITH CITY STANDARDS.
 4. TRENCH BACKFILL IN PUBLIC RIGHT-OF-WAY OR ROADWAY AREAS SHALL BE CRUSHED SURFACING PER WSDOT 9-09.9(3) OR BANK RUN GRAVEL PER WSDOT 9-03.19, COMPACTED IN 6" LIFTS OR MAY BE C2F WHEN DIRECTED BY THE CITY ENGINEER (SEE DETAIL S-3).
 5. LAY PIPE IN STRAIGHT LINE BETWEEN BENDS. MAKE ALL CHANGES IN GRADE OR LINE WITH 1/8 BEND OR WYE. 90° CHANGE WITH 1/8 BEND AND WYE.
 6. 6" SEWER PIPE MINIMUM SIZE IN RIGHT-OF-WAY, AND ELSEWHERE AS DIRECTED BY ENGINEER. 2% MIN. GRADE (UNLESS DIRECTED BY ENGINEER). SIX MAXIMUM.
 7. ALL A.C. MAINS TO BE TAPPED IN ACCORDANCE WITH WAC 296-62-00775 STATE/FEDERAL GUIDELINES AND CERTIFICATION.
 8. CONSTRUCTION IN RIGHT-OF-WAY MUST BE DONE BY A REGISTERED AND LICENSED CONTRACTOR.
 9. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT CITY SEWER ORDINANCES.
 10. WHERE CITY ENGINEER ALLOWS SIDE SEWER CONNECTIONS TO MANHOLE, INVERT OF SIDE SEWER SHALL BE EQUAL TO OR ABOVE MAIN SEWER CROWN, BUT NOT TO EXCEED 18" ABOVE INVERT OF MAIN SEWER.
 11. UNLESS OTHERWISE INDICATED ON PLAN, SIDE SEWER SHALL BE MIN. OF 6" DEEP AT PROPERTY LINE, OR 5" LOWER THAN THE LOWEST ELEVATION, WHICH EVER IS LOWER.
 12. ALL PIPE MATERIALS NOT TO STANDARDS WILL BE ABANDONED AND REPLACED WITH DUCTILE IRON OR PVC PIPE OF THE SAME SIZE.
 13. IF A BUILDING SEWER IS TO SERVE MORE THAN ONE PROPERTY, BY JOINT AGREEMENT OF THE OWNERS, AN APPROVED EASEMENT INSURING THAT ALL PROPERTIES INVOLVED SHALL HAVE PERPETUAL USE OF THE SIDE SEWER, HAVING PROVISIONS FOR OPERATION, MAINTENANCE, RECONSTRUCTION AND FOR ACCESS FOR REPAIR PURPOSES, SHALL BE SIGNED BY THE OWNERS. THIS EASEMENT SHALL BE RECORDED WITH THE COUNTY AUDITOR. A SIX INCH (MINIMUM) DIAMETER PIPE SHALL BE USED FOR THE COMMON LINE AND A SIX INCH CLEANOUT EXTENDING TO WITHIN 12 INCHES OF THE GROUND SURFACE SHALL BE PROVIDED AT THE WYE WHERE THE UPPER GRADE CONNECTIONS ARE MADE. BACKWATER VALVES SHALL BE INSTALLED ON SERVICE LINES UPSTREAM OF THE CONNECTION TO THE SHARED SIDE SEWER.
 14. THE CITY ENGINEER MAY REQUIRE BACKWATER VALVES ON SIDE SEWERS WHEN DEEMED NECESSARY. THE EFFECTIVE OPERATION AND MAINTENANCE OF ANY BACKWATER VALVE SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE SIDE SEWER.
 15. UTILITY PIPE TRACER TAPE SHALL BE DETECTABLE BELOW GROUND SURFACE, COLOR CODED, WITH UTILITY NAME PRINTED ON TAPE. CONDUCTIVE WARNING TAPE REQUIRED OVER ALL WATER PIPE. TAPE SHALL BE MANUFACTURER'S STANDARD PERMANENT BRIGHT-COLORED, CONTINUOUS PRINTED PLASTIC TAPE, ALUMINUM BACKED, INTENDED FOR DIRECT-BURIAL SERVICE. TAPE SHALL BE NOT LESS THAN 6" WIDE X 4 MILS THICK.



**CITY OF MERCER ISLAND
STANDARD DETAILS
SEWER**

SIDE SEWER CONNECTION AND STUB

6-5-2009 NO SCALE **S-17**

REV DATE				APPROVED
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