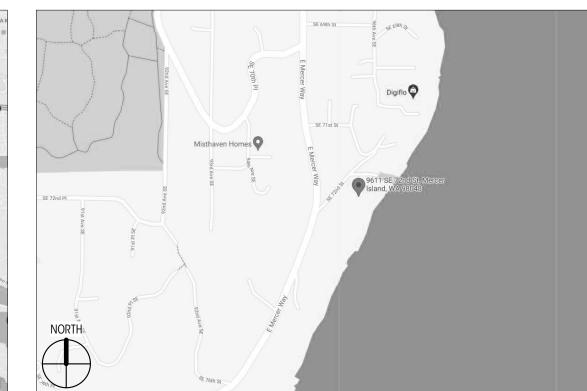
VICINITY PLAN



LOCATION PLAN



SYMBOLS KEY

INTERIOR

ELEVATION

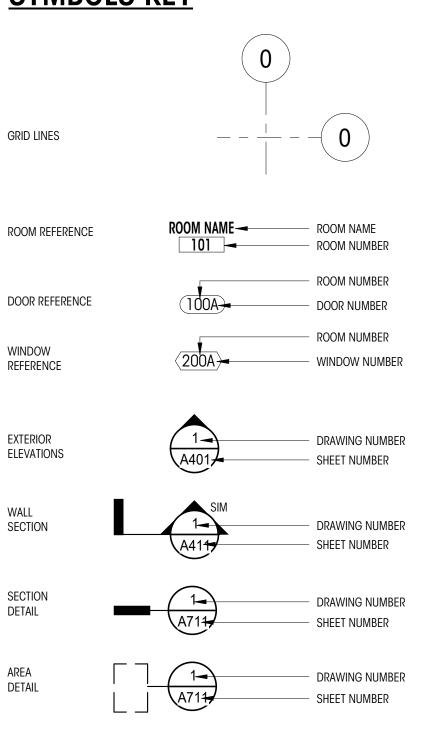
ELEVATION

SMOKE/CARBON MONOXIDE DETECTOR

HEAT DETECTOR

CENTERLINE

DATUM



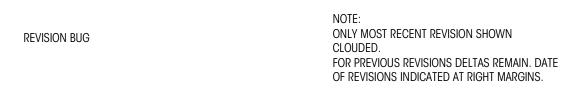
FINISH TYPE: SEE FINISH SCHEDULE FINISH MATERIAL FINISH NUMBER

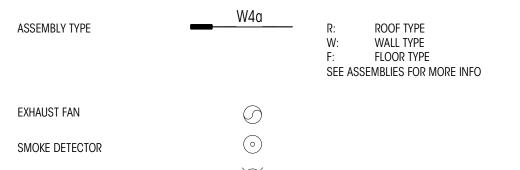
→ FINISH FLOOR → LOCATION

101'-3" **→** ELEVATION

DRAWING NUMBER

SHEET NUMBER





ABBREVIATIONS

ABV	ABOVE
AFF	ABOVE FINISH FLOOR
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
ALT	ALTERNATE
ARCH	ARCHITECT, ARCHITECTURAL
BLW	BELOW
BSMT	BASEMENT
BTW	BETWEEN
BLD Cab	BUILDING Cabinet
CALC	CALCULATION
CLG	CEILING
CL	CENTERLINE
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
DEMO	DEMOLISH
DIA	DIAMETER
DIM	DIMENSION
DW DBL	DISHWASHER Double
DRT TRE	EACH
ELEC	ELECTRIC, ELECTRICIAN
ELEV	ELEVATION
ENGR	ENGINEER
EQUIV	EQUIVALENT
EXIST OR (E)	EXISTING
EXT	EXTERIOR
FF	FINISH FLOOR
GALV	GALVANIZED
GWB	GYPSUM WALL BOARD
HDR	HEADER
HT	HEIGHT
HORIZ INSUL	HORIZONTAL Insulation
INT	INTERIOR
LOC	LOCATE, LOCATION
MAX	MAXIMUM
MFR	MANUFACTURER
MECH	MECHANICAL
MTL	METAL
MIN	MINIMUM
NTS	NOT TO SCALE
0.C.	ON CENTER
PLY	PLYWOOD
PRELIM	PRELIMINARY
PT PL	PRESSURE-TREATED PROPERTY LINE
PL REFR	REFRIGERATOR
REINF	REINFORCE, REINFORCING
REQD	REQUIRED
SCHED	SCHEDULE
SW	SHEARWALL
SIM	SIMILAR
SF	SQUARE FOOT
SPECS	SPECIFICATIONS
SSTL	STAINLESS STEEL
STL	STEEL
STRUCT	STRUCTURE, STRUCTURAL
TEMP	TEMPORARY
TOW	TOP OF WALL
TYP	TYPICAL
UNO VIF	UNLESS NOTED OTHERWISE VERIFY IN FIELD
VIF VERT	VERTICAL
VEKI WP	WATERPROOF, WEATHERPROOF
WNDW	WINDOW
W/	WITH
W/O	WITHOUT

GENERAL CONTRACTOR

PROJECT DIRECTORY	
OWNER	MIKE & ELIZABETH HUBER 9611 SE 72ND STREET, MERCER ISLAND, WA 98040
ARCHITECT	COLIN BRANDT BRANDT DESIGN GROUP 66 BELL ST., UNIT 1 SEATTLE, WA 98121 206.239.0850 - EXT.11 colin@brandtdesigninc.com
OWNER'S AGENT/CONTACT	KATE MILLER BRANDT DESIGN GROUP 66 BELL ST., UNIT 1 SEATTLE, WA 98121 206.239.0850 - EXT.14 kate@brandtdesigninc.com

HAMISH ANDERSON

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KIRKLAND, WA 98033 425.576.1923

GENERAL NOTES ZONING DATA WORK SHALL BE IN COMPLIANCE WITH THE 2018 INTERNATIONAL RESIDENTIAL CODE AS ADOPTED AND MODIFIED BY GROSS LOT AREA THE LOCAL JURISDICTIONAL LAND USE CODE, AND ALL OTHER LAWS, CODES, ORDINANCES AND REGULATIONS OF THE COUNTY, STATE, AND FEDERAL JURISDICTIONS. (LATEST EDITION AND AMENDMENTS) ACCESS EASEMENTS NET LOT AREA LOT SLOPE ALL UNDERGROUND UTILITIES MUST BE VERIFIED AS TO EXACT LOCATIONS SO AS NO INTERFERENCE BY DISRUPTION WILL BE CAUSED. GENERAL CONTRACTOR SHALL PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITIES BY THE METHODS RECOMMENDED AT THE PRE-CONSTRUCTION SITE MEETING. DAMAGE THAT MAY BE CAUSED BY GENERAL TREE REMOVAL (E) TREES TO BE REMOVED CONTRACTOR OR SUBCONTRACTOR TO ANY OF THE ABOVE MENTIONED SHALL BE REPAIRED BY HIM AND LEFT IN AS GOOD A CONDITION AS EXISTED PRIOR TO DAMAGING. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE INDENTIFICATION AND REMOVAL OF ALL HAZARDOUS MATERIALS IN COMPLIANCE WITH ALL APPLICABLE CODES AND LAWS PRIOR TO ANY WORK COMMENCING. IN THE EVENT THAT THE OWNER IS ACTING AS THE GENERAL CONTRACTOR, THE OWNER IS RESPONSIBLE FOR THE IDENTIFICATION AND REMOVAL OF ALL HAZARDOUS MATERIALS IN COMPLIANCE WITH ALL APPLICABLE CODES AND LAWS PRIOR TO ANY WORK CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL **DIMENSIONS AND JOB CONDITIONS** RELATED TO THIS WORK. ALL DIMENSIONS SHALL BE CONSIDERED "NOMINAL" UNLESS NOTED OTHERWISE. DO NOT SCALE DRAWINGS. USE WRITTEN DIMENSIONS ONLY. DIMENSIONS ON LARGE SCALE DRAWINGS OR DETAILS WILL PREVAIL OVER SMALLER SCALED DRAWINGS. WRITTEN DIMENSIONS ARE DRAWN TO THE FACE OF STUD, U.N.O. VERIFY ALL ROUGH-IN DIMENSIONS FOR EQUIPMENT, PROVIDE ALL BUCKOUTS, BLOCKING, AND JACKS AS REQUIRED BY THE DRAWINGS AND OTHER TRADES. ANY DISCREPANCY IN DIMENSIONS SHALL BE REPORTED IN WRITING TO THE PROJECT MANAGER/ DESIGNER FOR CLARIFICATION, OR APPROVAL OF MODIFICATION BEFORE COMMENCING WORK. THE RESPONSIBILITY TO THE PROJECT MANAGER/DESIGNER, SHALL REST WITH THE CONTRACTOR OR ANY OTHER PERSON APPROVING SUCH A CHANGE. all **workmanship and materials** shall be guaranteed for a period of one year from the date of CERTIFICATE OF OCCUPANCY UNI ESS SPECIFIED FOR A LONGER PERIOD OF TIME ON SPECIFIED ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING OR REPAIRING HIS OWN DEFECTIVE WORK AS WELL AS PAY ALL COSTS INCIDENTAL THERETO INCLUDING DAMAGE TO OTHER WORK, FURNISHINGS OR EQUIPMENT. ALL WARRANTIES OR GUARANTEES AS TO MATERIALS OR WORKMANSHIP ON OR WITH RESPECT TO THE OWNER'S WORK SHALL BE CONTAINED IN THE CONTRACT OR SUBCONTRACT WHICH SHALL BE SO WRITTEN THAT SUCH GUARANTEE OR WARRANTIES SHALL INSURE TO THE BENEFIT OF OWNER. INSURANCE: PRIOR TO THE COMMENCEMENT OF WORK THE GENERAL CONTRACTOR SHALL DELIVER TO THE OWNER CERTIFICATES OF INSURANCE FOR BOTH COMPREHENSIVE GENERAL LIABILITY AND WORKMAN'S COMPENSATION INCLUDING THE TOTAL AMOUNT OF COVERAGE AND CONDITIONS STIPULATED AND AGREED BY BOTH PARTIES. THE OWNER SHALL BE RESPONSIBLE FOR PAYING FOR THE BUILDING PERMIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL OTHER PERMITS REQUIRED OR NECESSARY FOR THE COMPLETION OF THE WORK FROM THE RESPECTIVE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE GOVERNING AGENCIES AS REQUIRED FOR SITE ALL TRADES SHALL REFER TO THE ARCHITECTURAL DRAWINGS REGARDING LOCATIONS OF WORK TO BE INSTALLED. UNLESS OTHERWISE NOTED, PROVIDE ALL MISCELLANEOUS FASTENERS, HARDWARE AND ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION. EVEN THOUGH SUCH ITEMS MAY NOT HAVE BEEN SPECIFICALLY MENTIONED IN THE DRAWINGS AND SPECIFICATIONS, NOTIFY THE ARCHITECT OF ANY REVISIONS OR ADDITIONAL INFORMATION OBTAINED FROM THE MANUFACTURER OF SPECIFIED MATERIALS OR EQUIPMENT WHICH MAY AFFECT THE CONTRACT TIME, COST OR QUALITY OF WORK. THE GENERAL CONTRACTOR, ALL SUB-CONTRACTORS AND ALL MAJOR SUPPLIERS SHALL SUBMIT TO THE OWNER WITHIN 30 DAYS AFTER COMPLETION ALL "RELEASE OF LIENS" FOR ALL WORK PERFORMED PRIOR TO FINAL PAYMENT. PARTIAL LIEN WAIVERS TO BE SUBMITTED WITH MONTHLY REQUISITION. ALL MANUFACTURERS AND/OR SUPPLIERS SHALL SUBMIT SHOP DRAWINGS AND/OR MATERIAL SAMPLES TO THE DESIGNER/OWNER FOR APPROVAL PRIOR TO FABRICATION. ALL OF THE GENERAL CONTRACTOR'S EQUIPMENT, SCAFFOLDING HOISTS, ETC., SHALL BE AVAILABLE TO THE OWNER/ DESIGNER AND THEIR STAFF FOR INSPECTION OF ANY AND ALL WORK DURING NORMAL WORKING HOURS. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DELIVERY POINTS, HOISTS LOCATIONS, ACCESS TO AND FROM THE SITE OF THE BUILDING AND UTILITY SERVICES. BID TO INCLUDE ALL NECESSARY AND REQUIRED PERMITS, LICENSES, FEES, BONDS AND INSURANCE - EVIDENCE OF WHICH MUST BE SUBMITTED TO OWNER/ DESIGNER PRIOR TO ANY CONSTRUCTION.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUBCONTRACTORS WORKING AT JOB SITE AND FOR ALL

THE MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTOR SHALL FULLY COORDINATE ALL EQUIPMENT WITH THE

ANY SUBCONTRACTOR CUTTING INTO WORK ALREADY COMPLETED, CUTTING CHASES AND TRENCHES FOR THE

NO SUBSTITUTIONS ARE ALLOWED FOR MATERIALS WHERE SPECIFIC MANUFACTURERS ARE INDICATED, UNLESS

OF WALLS, FLOOR, ETC., DAMAGE BY SUCH A COMPANY. ALL REPAIRS SHALL MATCH EXISTING SURFACES.

AND NO CLAIM FOR AN ADDITIONAL SUM SHALL BE VALID UNLESS SO OFFERED AS DESCRIBED ABOVE.

PROVIDE WATERPROOFING MEMBRANE OVER PROTECTIVE BOARD AT ALL WALLS EXPOSED TO EARTH.

INSULATE ALL ROUGH-IN PLUMBING IN WALLS, FLOORS, AND CEILINGS FOR SOUND TRANSMISSION.

ALL PIPING AND CONDUIT UNDER SLAB SHALL BE A MINIMUM OF 2"-0' CLEAR OF UNDERSIDE OF FOOTING.

ALL FINAL SURFACE GRADING SHALL BE COMPLETED TO FACILITATE POSITIVE DRAINAGE AWAY FROM THE BUILDING

PROVIDE AND INSTALL INSULATION AT EXTERIOR WALLS, ROOF, FLOOR LOCATIONS AS SHOWN, SPECIFIED AND IN

BRETT MOZDEN

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3213 EASTLAKE AVE E, SUITE B

SUPERIOR NW TREE & SHRUB CARE INC.

LANDSCAPE ARCHITECT

COSTS TO THE OWNER, AND ANY ANTICIPATED DELAYS CAUSED BY SUCH CHANGES.

WITH NEOPRENE OR POLYURETHANE FILLER AND APPROVED SEALANT COMPOUNDS.

PROVIDE GALVANIC INSULATION BETWEEN ALL DISSIMILAR METALS.

WATER PIPES TO BE INSULATED IN ALL UNHEATED AREAS.

OTHER TRADES. THESE CONTRACTORS SHALL BE RESPONSIBLE FOR FINAL HOOK-UP OF ALL EQUIPMENT NOT FURNISHED

GENERAL CONTRACTOR TO BE RESPONSIBLE FOR SECURITY OF ALL MATERIALS AT JOB SITE UNTIL FINAL ACCEPTANCE OF

INTRODUCTION OF HIS WORK AND EQUIPMENT IN THE BUILDING SHALL DO OR PAY FOR ALL BACK FILLING, REPARATION

APPROVED BY THE OWNER/ARCHITECT. REQUESTS FOR SUBSTITUTIONS SHALL BE MADE IN WRITING PRIOR TO ORDERING MATERIALS OR COMMENCING WORK. SUCH REQUESTS SHALL INCLUDE THE DATE, SCOPE OF WORK, ANY ADDITIONAL

NO EXTRA WORK OR CHANGE SHALL BE MADE UNLESS A WRITTEN CHANGE ORDER IS SUBMITTED AND SIGNED BY THE

OWNER AND ARCHITECT. THE ORDER SHALL STATE THAT THE OWNER HAS AUTHORIZED THE EXTRA WORK OR CHANGE,

ALL WOOD IN CONTACT WITH MASONRY OR CONCRETE OR EXPOSED TO WEATHER SHALL BE PRESSURE TREATED.

WOOD SPECIFICATIONS TO CONFORM TO OUTLINE SPECIFICATIONS, STRUCTURAL PLANS, NOTES, AND GENERAL

CAULKING AND SEALANTS: INSTALLED SHALL BE GUARANTEED WATERTIGHT. EXTERIOR METAL WORK, INCLUDING

WINDOWS AND DOOR FRAMES AND ALL JUNCTIONS BETWEEN MASONRY, CONCRETE AND METAL SHALL BE SEALED

COORDINATION OF WORK.

CONSTRUCTION SPECIFICATIONS

ACCORDANCE WITH ENERGY CODE.

STRUCTURAL ENGINEER

GEOTECHNICAL ENGINEER

<u>ARBORIST</u>

BY THEM BUT REQUIRING THE SAME FOR FINAL COMPLETION.

(N) TREES TO BE PLANTED AS REPLACEMENT LOT COVERAGE (N) BUILDING ROOF, GARAGE, AND COVERED DECK 3,206.30 SF (N) DRIVING SURFACES 1,336.45 SF (N) TOTAL LOT COVERAGE 4,542.75 SF = 28.1% OF LOT AREA ALLOWABLE LOT COVERAGE = 35% $16,175 \text{ SF } \times 0.35 = 5,66 \text{ } 1.25 \text{ SF}$ **EXISTING HARDSCAPE** 314 SF STAIRS PATIOS/ WALKWAY 767 SF NEIGHBOR'S ENCROACHING DECK 44 SF DOCK STEPS/ OVERLAND DOCK 63 SF SITE WALL 128 SF ROCKERY TOTAL EXISTING 2,001 SF = 12.4% OF LOT AREA **DEMOLISHED HARDSCAPE** STAIRS 314 SF 767 SF PATIOS/ WALKWAY SITE WALL 128 SF ROCKERY 200 SF TOTAL DEMOLISHED 1,409 SF PROPOSED HARDSCAPE (E) HARDSCAPE TO REMAIN NEIGHBOR'S ENCROACHING DECK 44 SF DOCK STEPS/ OVERLAND DOCK 63 SF 485 SF TOTAL TO REMAIN 592 SF (N) ADDED HARDSCAPE 122.45 SF STAIRS WATERPROOF DECK / PATIO / WALKWAY 1,190.31 SF SITE WALL 149.09 SF ROCKERY 16 SF TOTAL ADDED 1,477.85 SF TOTAL HARDSCAPE (592+1477.85) = 2,069.85 SF = 12.8% OF LOT AREAALLOWABLE HARDSCAPE = 9% 16,175 X 0.09 = 1,455.75 SF PER MICC 19.02.020.F.3.b.ii, HARDSCAPE IMPROVEMENTS ARE PERMITTED IN THE MAXIMUM LOT 5,661.25 ALLOWABLE LOT COVERAGE SF - 4,542.75 PROPOSED SF = 1,118.5 SF REMAINING 1,118.5 SF + 1,455.75 = 2,574.25 HARDSCAPE SF MAX.NO CHANGE TO IMPERVIOUS AT SHORELINE PROPOSED, REFER TO SHEET L1.1, L1.2 AND L2.0 PROPOSED BUILDING AREA SUMMARY (GFA) 1844.43 SF PROPOSED LOWER LEVEL PROPOSED LOWER LEVEL BELOW GRADE (1276.45 SF) (EXCLUDED PER MICC CHAPTER 19 APPENDIX B) PROPOSED MAIN LEVEL 1691.14 SF 229.12 SF PROPOSED MAIN LEVEL - 200% MODIFIER PROPOSED COVERED DECK AREA 91.36 SF PROPOSED UPPER LEVEL (EXCLUDES STAIR PER 1376.06 SF MICC 19.02.020.D.2.c) PROPOSED UPPER LEVEL - 150% MODIFIER 173.58 SF PROPOSED ATTACHED GARAGE 856.05 SF TOTAL PROPOSED BUILDING AREA (GSF) 4,985.29 SF ALLOWABLE GROSS FLOOR AREA = 5000 GSF 16,175 SF X 0.40 = 6,470 SFOR 40%, WHICHEVER IS LESS MAX. ALLOWABLE = 5,000 GSF SETBACKS SIDE YARD SUM OF THE SIDE YARDS SHALL BE AT LEAST 15 (SEE A100, A300 AND A301 FOR VARIABLE SIDE FRONT YARD SHORELINE 25' FROM THE ORDINARY HIGH WATER MARK **OCCUPANCY SUMMARY** EXISTING TYPE -OCCUPANT LOAD -SINGLE FAMILY **CODE DATA BUILDING AREA** PROPOSED LOWER LEVEL 1626.61 SF PROPOSED MAIN LEVEL 1635.91 SF PROPOSED UPPER LEVEL 1616.41 SF PROPOSED ATTACHED GARAGE 792.49 SF PROPOSED COVERED EXTERIOR SPACES 763.81 SF 6435.23 SF ENERGY CODE SUMMARY (2018 WSEC, RESIDENTIAL PROVISIONS) CLIMATE ZONE 4C PER TABLE R301.1 THIS PROJECT QUAILIFIES AS A MEDIUM DWELLING UNIT AND WILL USE THE REQUIREMENTS OF A PRESCRIPTIVE PATH, SEE INSTALLED PER INTERNATIONAL RESIDENTIAL CODE (IRC) AND WASHINGTON STATE ENERGY CODE (WSEC), WORK TO BE COMPLETED UNDER A SEPARATE PERMIT. **VENTILATION** FANS ON TIMERS, PER PLANS. VOLUME OF REQUIRED OUTDOOR VENTILATION AIR TO BE PROVIDED BASED ON SECTION M1505.4 OF THE INTERNATIONAL RESIDENTIAL CODE. * PLUMBING, MECHANICAL, ELECTRICAL WORK TO BE PERMITTED SEPARATELY. SEE SHEET GOO1 - GOO2 FOR VENTILATION & ENERGY CALCULATIONS. CONTRACTOR TO INSTALL AN NFPA 13R FIRE SPRINKLER SYSTEM PER 2018 IBC SECTION 903.3 AND A MONITORED FIRE ALARM PER NFPA 72 CHAPTER 29. A FIRE CODE ALTERNATE HAS BEEN INCLUDED WITH THE PERMIT SUBMITTAL FOR APPROVAL. FIRE SPRINKLER SYSTEM AND MONITORED FIRE ALARM TO BE PERMITTED SEPARATELY. CONTRACTOR TO INSTALL SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS AND ON EACH FLOOR LEVEL PER IRC SECTION 314.3. SMOKE ALARMS SHALL BE INTERCONNECTED PER IRC SECTION R314.4. FIRE ALARM SYSTEMS ARE PERMITTED TO BE USED IN LIEU OF SMOKE ALARMS CONTRACTOR TO INSTALL CARBON MONOXIDE ALARMS OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS AND ON EACH FLOOR LEVEL PER IRC SECTION 315.3. COMBINATION ALARMS ARE PERMITTED PER IRC SECTION 315.4. CARBON MONOXIDE ALARMS SHALL BE INTERCONNECTED PER IRC SECTION R315.5. 10801 MAIN STREET, SUITE 102 BELLEVUE, WA 98004 425.458.4488 danah@terrane.net BRADY BERRIMAN **CIVIL ENGINEER** LATITUDE 48 ENGINEERS 600 1ST AVENUE SEATTLE, WA 98104 206.556.1615

brady@latitude-48.com

CAMBIUM INC.

206.860.7625

701 34TH AVENUE

SEATTLE, WA 98122

michal@cambiumlandscape.com

MICHAL LEHMANN

16,175 SF

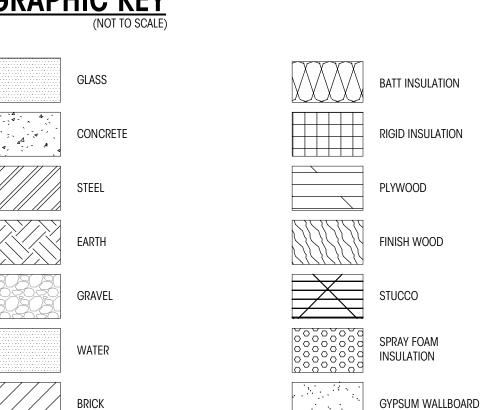
16,175 SF

56.4' / 263.15' = 21.4%

0 SF

<u>GENERAL</u> G000 COVERSHEET G001 WA STATE ENERGY CODE G002 LEAKAGE TESTING/ VENTILATION CALCULATIONS **SURVEY** SURVEY 1 TOPOGRAPHIC & BOUNDARY SURVEY SURVEY 2 TOPOGRAPHIC & BOUNDARY SURVEY <u>CIVIL</u> C100 TESC PLAN C110 TESC DETAILS AND NOTES C200 CIVIL SITE PLAN C210 CIVIL SITE DETAILS AND NOTES C211 CIVIL SITE DETAILS AND NOTES C300 TREE PLAN C310 TREE DETAILS AND NOTES SHORING SH1.1 GENERAL SHORING NOTES SH2.1 SHORING PLAN SH3.1 SHORING ELEVATIONS SH3.2 SHORING ELEVATIONS SH4.1 SHORING DETAILS **LANDSCAPE** L1.1 LANDSAPE PLAN - SITE PLAN, PAGE 1 OF 2 L1.2 LANDSAPE PLAN - SITE PLAN, PAGE 2 OF 2 L2.0 LANDSCAPE PLAN - SHORELINE RESTORATION NATIVE PLANTING AD100 SITE DEMOLITION PLAN **ARCHITECTURAL** A100 SITE PLAN A101 SITE SECTIONS A211 LOWER FLOOR PLAN A212 MAIN FLOOR PLAN A213 UPPER FLOOR PLAN A214 ROOF PLAN A300 EXTERIOR ELEVATIONS (N & E) A301 EXTERIOR ELEVATIONS (S & W) A400 **BUILDING SECTIONS** A401 **BUILDING SECTIONS** A410 WALL SECTIONS A411 WALL SECTIONS A412 WALL SECTIONS A600 DOOR & WINDOW SCHEDULES & LEGENDS & NOTES A700 ASSEMBLY DETAILS - VERTICAL A701 ASSEMBLY DETAILS - HORIZONTAL \$1.1 GENERAL STRUCTURAL NOTES S1.2 GENERAL STRUCTURAL NOTES S2.1 FOUNDATION PLAN S2.2 MAIN FLOOR FRAMING PLAN S2.3 UPPER FLOOR FRAMING PLAN S2.4 ROOF FRAMING PLAN S3.1 TYPICAL CONCRETE DETAILS FOUNDATION DETAILS FOUNDATION DETAILS S3.3 S4.1 TYPICAL WOOD FRAMING DETAILS WOOD FRAMING DETAILS S4.3 WOOD FRAMING DETAILS S4.4 WOOD FRAMING DETAILS WOOD FRAMING DETAILS

PROJECT ADDRESS	9611 SE 72ND STREET MERCER ISLAND, WA 98040
PROJECT NUMBER	TBD
ASSESSOR'S PARCEL #	257950-0040
LEGAL DESCRIPTION	FLOODS LAKE SIDE TRS PARCEL B MERCER ISLAND SHORT PLAT NO 78-3-009 REC NO 7903280701 SD PLAT DAF - ALL LOTS 1-2 & S ADJ
PROJECT DESCRIPTION	DEMOLITION OF AN EXISTING SINGLE FAMILY RESIDENCE AND NEW CONSTRUCTION OF A S FAMILY RESIDENCE
ZONE	R-8.4
BUILDING TYPE	SINGLE FAMILY RESIDENCE



Design Group

66 Bell Street Unit 1 Seattle, WA

206.239.0850

brandtdesigninc.com

98121



PERMIT SET

DATE: 9/17/21 SHEET SIZE: D (24X36)

NO. DESCRIPTION PLAN CHECK 1 B PLAN CHECK 2 11.07.22

DRAWN BY:

CHECKED BY:

COVERSHEET

WA STATE ENERGY CODE FORMS

2018 Washington State Energy Code – Residential Prescriptive Energy Code Compliance for All Climate Zones in Washington Single Family – New & Additions (effective February 1, 2021)

These requirements apply to all IRC building types, including detached one- and two-family dwellings and multiple single-family dwellings (townhouses).

Project Information	Contact Information
Huber Residence	Kate Miller
9611 SE 72nd Stree	kate@brandtdesigninc.com / (206) 239-0850 ext 14

Instructions: This single-family project will use the requirements of the Prescriptive Path below and incorporate the minimum values listed. Based on the size of the structure, the appropriate number of additional credits are checked as chosen by the permit applicant.

Provide all information from the following tables as building permit drawings: Table R402.1 - Insulation and Fenestration Requirements by Component, Table R406.2 - Fuel Normalization Credits and 406.3 - Energy Credits.

Authorized Representative	Kate Miller	DN: C=US, E=kate@brandtdesigninc.com, O=Brandt Design Group, CN=Kate Miller Date: 2021.09.10 09:11:27-07'00'	Date	09/16/2021
	All Climate	Zones (Table R402.1.1)		
	R	-Value ^a		U-Factor ^a
Fenestration U-Factor ^b		n/a		0.30
Skylight U-Factor ^b		n/a		0.50
Glazed Fenestration SHGC b,e		n/a		n/a
Ceiling ^e		49 ^j		0.026
Wood Frame Wall ^{g,h}		21 int		0.056
Floor		30		0.029
Below Grade Wall c,h	10/15	5/21 int + TB		0.042
Slab d,f R-Value & Depth		10. 2 ft		n/a

- R-values are minimums. U-factors and SHGC are maximums. When insulation is installed in a cavity that is less
- a than the label or design thickness of the insulation, the compressed R-value of the insulation from Appendix Table A101.4 shall not be less than the *R*-value specified in the table.
- b The fenestration *U*-factor column excludes skylights.
- "10/15/21 +5TB" means R-10 continuous insulation on the exterior of the wall, or R-15 continuous insulation on the interior of the wall, or R-21 cavity insulation plus a thermal break between the slab and the basement wall at
- c the interior of the basement wall. "10/15/21 +5TB" shall be permitted to be met with R-13 cavity insulation on the interior of the basement wall plus R-5 continuous insulation on the interior or exterior of the wall. "5TB"
- means R-5 thermal break between floor slab and basement wall. d R-10 continuous insulation is required under heated slab on grade floors. See Section R402.2.9.1.
- For single rafter- or joist-vaulted ceilings, the insulation may be reduced to R-38 if the full insulation depth
- extends over the top plate of the exterior wall. R-7.5 continuous insulation installed over an existing slab is deemed to be equivalent to the required perimeter
- f slab insulation when applied to existing slabs complying with Section R503.1.1. If foam plastic is used, it shall
- meet the requirements for thermal barriers protecting foam plastics.
- For log structures developed in compliance with Standard ICC 400, log walls shall meet the requirements for
- climate zone 5 of ICC 400. Int. (intermediate framing) denotes framing and insulation as described in Section A103.2.2 including standard
- h framing 16 inches on center, 78% of the wall cavity insulated and headers insulated with a minimum of R-10 insulation.

Prescriptive Path – Single Family 2018 Washington State Energy Code-R

2018 Washington State Energy Code – Residential Prescriptive Energy Code Compliance for All Climate Zones in Washington Single Family – New & Additions (effective February 1, 2021)

Each dwelling unit in a residential building shall comply with sufficient options from Table R406.2 (fuel normalization credits) and Table 406.3 (energy credits) to achieve the following minimum number of credits. To claim this credit, the building permit drawings shall specify the option selected and the maximum tested building air leakage, and show the qualifying ventilation system and its control sequence of operation.

1. Small Dwelling Unit: 3 credits

Prescriptive Path – Single Family

- Dwelling units less than 1,500 sf in conditioned floor area with less than 300 sf of fenestration area. Additions to existing building that are greater than 500 sf of heated floor area but less than 1,500 sf.
- 2. Medium Dwelling Unit: 6 credits
- All dwelling units that are not included in #1 or #3 3. Large Dwelling Unit: 7 credits
- Dwelling units exceeding 5,000 sf of conditioned floor area
- 4. Additions less than 500 square feet: 1.5 credits All other additions shall meet 1-3 above

Before selecting your credits on this Summary table, review the details in Table 406.3 (Single Family), on page 4.

	Summary of T	Table R406.2		
Heating Options	Fuel Normalization Descriptions	Credits - select ONE heating option		User Notes
1	Combustion heating minimum NAECAb	0.0		
2	Heat pump ^c	1.0	•	
3	Electric resistance heat only - furnace or zonal	-1.0		
4	DHP with zonal electric resistance per option 3.4	0.5		
5	All other heating systems	-1.0		
Energy Options	Energy Credit Option Descriptions	energy opti	select ONE on from each gory d	
1.1	Efficient Building Envelope	0.5		
1.2	Efficient Building Envelope	1.0	•	
1.3	Efficient Building Envelope	0.5		
1.4	Efficient Building Envelope	1.0		
1.5	Efficient Building Envelope	2.0		
1.6	Efficient Building Envelope	3.0		
1.7	Efficient Building Envelope	0.5		
2.1	Air Leakage Control and Efficient Ventilation	0.5		
2.2	Air Leakage Control and Efficient Ventilation	1.0	•	
2.3	Air Leakage Control and Efficient Ventilation	1.5		
2.4	Air Leakage Control and Efficient Ventilation	2.0		
3.1ª	High Efficiency HVAC	1.0		
3.2	High Efficiency HVAC	1.0		
3.3ª	High Efficiency HVAC	1.5		
3.4	High Efficiency HVAC	1.5		
3.5	High Efficiency HVAC	1.5	•	
3.6ª	High Efficiency HVAC	2.0		
4.1	High Efficiency HVAC Distribution System	0.5	•	
4.2	High Efficiency HVAC Distribution System	1.0		

Prescriptive Path – Single Family

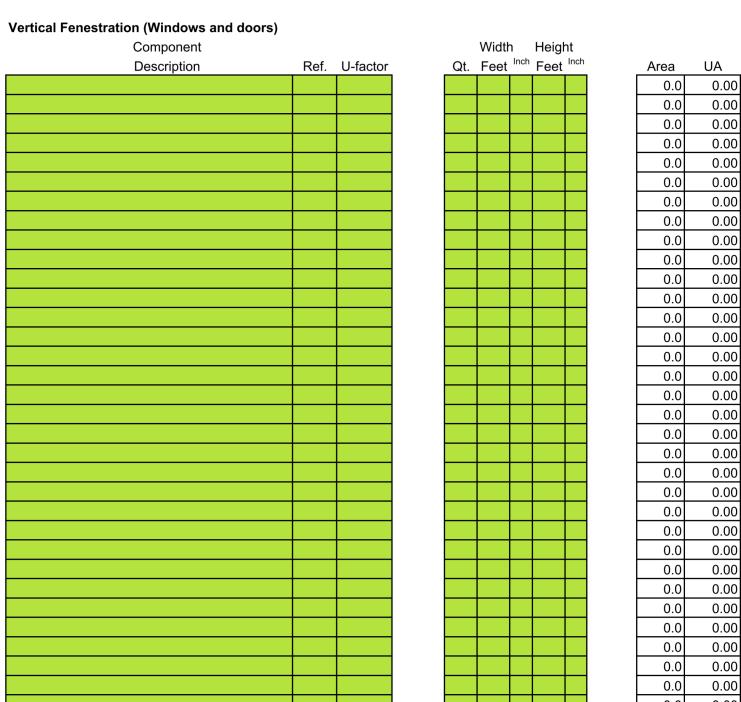
2018 Washington State Energy Code-R

SEE DOOR & WINDOW SCHEDULE SHEET A600

Window, Skylight and Door Schedule

Project Information 9611 SE 72ND ST MERCER ISLAND, WA 98040 KATE MILLER RANDT DESIGN GROUP

	Ref.	U-factor		Qt.	Width Feet Inch	Height Feet ^{Inc}	ch	Area	UA
Exempt Swinging Door (24 sq. ft. max.)								0.0	0.00
Exempt Glazed Fenestration (15 sq. ft. max.)								0.0	0.00
Vertical Fenestration (Windows and doors)			•		Width	Height			



0.0 0.0 0.00 0.0 0.00 0.0 0.00 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 Sum of Vertical Fenestration Area and UA 0.0

2018 Washington State Energy Code-R

Overhead Glazing (Skylights)

ad Clazing (Chyngilis)							
Component					Width		He
Description	Ref.	U-factor		Qt.	Feet	Inch	Fe
			'				
		Sum of	Overhea	ad Gla	zina A	Area	ar

Sum of Overhead Glazing Area and UA Overhead Glazing Area Weighted U = UA/Area

Vertical Fenestration Area Weighted U = UA/Area

Total Sum of Fenestration Area and UA (for heating system sizing calculations)

ENERGY & VENTILATION NOTES

0.00

Area UA

0.0

0.0

0.0 0.00

0.0 0.00

0.00

1. CONTRACTOR TO COORDINATE COMPLIANCE WITH WSEC TABLE R406.3 ENERGY CREDIT OPTION 2.2: REDUCE THE TESTED AIR LEAKAGE TO 2.0 AIR CHANGES PER HOUR MAXIMUM AT 50 PASCALS AND ALL WHILE HOUSE VENTILATION REQUIREMENTS OF THE IMC SHALL BE MET WITH A HEAT RECOVERY VENTILATION SYSTEM WITH A MIN SENSIBLE, HEAT RECOVERY EFFICIENY OF, 0.65.

2. CONTRACTOR TO COORDINATE COMPLIANCE WITH WSEC TABLE R406.3 ENERGY CREDIT OPTION 3.5: PROVIDE AN AIR-SOURCE, CENTRALLY DUCTED HEAT PUMP WITH MIN HSPF OF 11.0.

3. CONTRACTOR TO COORDINATE COMPLIANCE WITH WSEC TABLE R406.3 ENERGY CREDIT OPTION 4.1: ALL SUPPLY AND RETURN DUCTS LOCATED IN AN UNCONDITIONED ATTIC SHALL BE DEEPLY BURIED IN CEILING INSULATION IN ACCORDANCE WITH WSEC SECTION R403.3.7. FOR MECHANICAL EQUIPMENT LOCATED OUTSIDE THE CONDITIONED SPACE, A MAX OF 10 LINEAR FEET OF RETURN DUCT AND 5 LINEAR FEET OF SUPPLY DUCT CONNECTIONS TO THE EQUIPMENT MAY BE OUTSIDE THE DEEPLY BURIED INSULATION. ALL METALLIC DUCTS LOCATED OUTSIDE THE CONDITIONED SPACE MUST HAVE BOTH TRANSVERSE AND LONGITUDINAL JOINTS SEALED WITH MASTIC. IF FLEX DUCTS ARE USED, THEY CANNOT CONTAIN SPLICES. DUCT LEAKAGE SHALL BE LIMITED TO 3 CFM PER 100 SF OF CONDITIONED FLOOR AREA. AIR HANDLER(S) SHALL BE LOCATED WITHIN THE CONDITIONED SPACE.

4. CONTRACTOR TO COORDINATE COMPLIANCE WITH WSEC TABLE R406.3 ENERGY CREDIT OPTION 5.2: WATER HEATING SYSTEM SHALL INCLUDE ENERGY STAR RATED GAS WATER HEATER WITH A MIN UEF OF

5. CONTRACTOR TO COORDINATE COMPLIANCE WITH WSEC TABLE R406.3 ENERGY CREDIT OPTION 7.1: NEW DISHWASHERS, REFRIGERATORS, WASHING MACHINES AND DRYERS MUST BE ENERGY STAR RATED. DRYERS MUST BE VENTLESS, DUCTS AND EXTERIOR DRYER VENT CAPS ARE NOT PERMITTED.

6. CONTRACTOR TO COORDINATE DUCT LEAK TESTING. DUCTS MUST BE LEAK TESTED IN ACCORDANCE WITH WSU RS-33 USING THE MAX DUCT LEAKAGE RATES SPECIFIED. TOTAL LEAKAGE MUST BE VERIFIED BY EITHER THE ROUGH-IN TEST OR POSTCONSTRUCTION TEST PER WSEC R403.3.3. TOTAL LEAKAGE MUST BE LESS THAN OR EQUAL TO 3 CFM PER 100 SF OF CONDITIONED FLOOR AREA WHEN TESTED AT A PRESSURE DIFFERENTIAL OF 0.1" WG (25 PA) ACROSS THE ENTIRE SYSTEM.

7. A MINIMUM OF 90% OF LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES MUST BE HIGH-EFFICACY

2018 Washington State Energy Code – Residential Prescriptive Energy Code Compliance for All Climate Zones in Washington Single Family – New & Additions (effective February 1, 2021)

	Summary of Table	R406.2 (co	nt.)	
nergy Options	Energy Credit Option Descriptions (cont.)	Credits - select ONE energy option from each category d		User Notes
5.1 ^d	Efficient Water Heating	0.5		
5.2	Efficient Water Heating	0.5	•	
5.3	Efficient Water Heating	1.0		
5.4	Efficient Water Heating	1.5		
5.5	Efficient Water Heating	2.0		
5.6	Efficient Water Heating	2.5		
6.1 ^e	Renewable Electric Energy (3 credits max)	1.0		
7.1	Appliance Package	0.5	V	
	Total Credits		6.0	CLEAR FORM

- a. An alternative heating source sized at a maximum of 0.5 W/sf (equivalent) of heated floor area or 500 W, whichever is bigger, may be installed in the dwelling unit.
- b. Equipment listed in Table C403.3.2(4) or C403.3.2(5)
- c. Equipment listed in Table C403.3.2(1) or C403.3.2(2)
- d. You cannot select more than one option from any category EXCEPT in category 5. Option 5.1 may be combined with options 5.2 through 5.6. See Table 406.3.
- e. 1.0 credit for each 1,200 kWh of electrical generation provided annually, up to 3 credits max.
- See the complete Table R406.2 for all requirements and option descriptions.

ease print only pages 1 through 3 of this worksheet for submission to your buildi

66 Bell Street Unit 1 Seattle, WA 98121

206.239.0850

brandtdesigninc.com



B

PERMIT SET

9611 SE

DATE: 9/17/21 D (24X36) SHEET SIZE:

NO. DESCRIPTION DATE

PLAN CHECK 1

DRAWN BY:

CHECKED BY:

WA STATE ENERGY CODE

1/4" = 1'-0"

Energy Code

Support					
Duct	Leakage Affid	avit (New Coı	nstructio	on)	
Permit #:					
House address or lot number:					
City:	Zip:				
Cond. Floor Area (ft²):	Sour	ce (circle one):	Plans	Estimated	Measured
☐ Duct tightness testing is not recentirely within the building thermal					
Air Handler in conditioned space?	☐ yes ☐ no	Air Handler pre	sent durinç	g test? 🗌 yes	□ no
Circle Test Method:	eakage to Outside	Total	Leakage		
Maximum duct leakage: Post Construction, total duct lea	ıkage: (floor area x	.04) =0	CFM@25 F	²a	
Post Construction, leakage to o	utdoors: (floor area	a x .04) =	CFM@2	25 Pa	
Rough-In, total duct leakage wit	h air handler insta	lled: (floor area	x .04) =	CFM@2	5 Pa
Rough-In, total duct leakage wit	h air handler not i	nstalled: (floor a	rea x .03) =	=CFM	1@25 Pa
Test Result:CFM	I@25Pa				
Ring (circle one if applicable):	Open	1	2	3	
Duct Tester Location:		Pressure Tap	Location:		
I certify that these duct leakage	rates are accurate	e and determine	d using st	andard duct t	esting protoco
Company Name:		Technician:			
Technician Signature:					
Date:					
Phone Number:					

WASHINGTON STATE UNIVERSITY

Property addres	s:		HVAC System Duct Leakage Testing (R403.3)	Circle one
	ed design professional name:		All ductwork and air handler in conditioned space? (See Option 4.2)	Y or N
_	ign pro. signature:		All ductwork in unconditioned spaces buried and tested at 3% total leakage, and air handler in conditioned space? (See Option 4.1.)	Y or N
Conditioned floo	or area: ft² (per building permit)		All ductwork & air handler outside conditioned space insulated to minimum R-8?	Y or N
	B Values (B202 4 4)		Air handler present at duct leakage test? (Total leakage 4% if yes, 3% if no)	Y or N
Ceiling/	R-Values (R303.1.1) Vaulted R- Floors: Over uncondition	ed space R-	HVAC leakage to outside test conducted at final?	Y or N
Attic:			Do HVAC duct leakage tests include GPS and time stamp verification?	Y or N
	Attic R Slab-on-g	rade floor R	HVAC system leakage test calculated design target:	FM @ 25 Pa
Walls: Ab	ove grade R Fully insulated sla	` ′	HVAC system leakage test measured results:	FM @ 25 Pa
E	Below, int. R, Roors: R, R, R	·	Building Leakage Testing (R402.4.1.2)	
В	Below, ext. R		Dwelling unit leakage test calculated design target:	CH @ 50 Pa
ı	J-Value of Windows, Skylights and Doors (R303.1.1	.3)	Dwelling unit leakage test, measured results:	CH @ 50 Pa
	, , , , , , , , , , , , , , , , , , , ,	rage U	Whole Building Leakage test (R2 non-corridor only) design target: CFM	/sf @ 50 Pa
	· · · · · · · · · · · · · · · · · · ·	_	Whole Building Leakage test (R2 non-corridor only) measured: CFM	l/sf @ 50 Pa
	malization (Tables R406.2) and Energy Credits (Tab	le R406.3)	Do building leakage tests include GPS and time stamp verification?	Y or N
	mber (1 to 5) (Select one)		Whole House Ventilation System Measured Flow Rates (M1505.4 IRC-WA)	Circle one
	selected (1 to 7)		Are the system controls correctly labeled?	Y or N
uel Normalizati	on Credit + Total Energy Credits = Total C	Credits	The Whole House Ventilation (WHV) system operation and maintenance (O&M) instructions were provided to the building owner?	Y or N
System	Type (Manufacturer and Model Number)	Efficiency	Provided to: on	(date)
Heating				
Cooling			Whole House Ventilation System Type: (Circle one)	
OHW			(1) Whole house exhaust fan, location	
Drain water heat	1		(2) Balanced HRV/ ERV, location	
ecovery			For R2 low-rise, serves more than one unit?	Y or N
(Onsite Renewable Energy Electric Power Syste	em e	(3) Supply or HRV WHV integral to the air handler. Describe system control sequel operations or reference to design submittal:	
System type	System design capacity	kW		
	neration kWh/yr		Specify run-time: hours per day	CFM
	Appliances	Energy Star?	WHV calculated design minimum flow rate per plan submittal:	CFW
	Manufacturer and Model	(Circle one)	WHV measured min flow rate at commissioning: ExhaustCFM, Supply	CFM
Dish washer		Y or N	Do WHV flow tests include GPS & time stamp verification?	Y or N
Refrigerator		Y or N	HRV/ERV sensible heat recovery efficiency:	
Washer		Y or N	Commissioning Notes:	
Oryer		Y or N		
	Vented or unvented? If vented, CEF rating			
Gas fireplace / h	eating stove (Section R402.4.2) Fireplace efficiency	y (FE)	Other Mandatory Requirements	Circle one
Heating or De	ecorative? (Circle one)		All other mandatory requirements of WSEC-R have been met?	Y or N
				1

WA STATE VENTILATION REQUIREMENTS

M1505.4 Whole-House Mechanical Ventilation System

Whole-house mechanical ventilation systems shall be designed in accordance with Sections M1505.4.1 through M1505.4.4.

M1505.4.1 System Design

The whole-house ventilation system shall consist of one or more supply fans, one or more exhaust fans, or an ERV/HRV with integral fans, associated ducts and controls. Wholehouse mechanical ventilation system with supply and exhaust fans per Sections M1505.4.1.2, M1505.4.1.3, M1505.4.1.4, and M1505.4.1.5. Local exhaust fans are permitted to serve as part of the whole-house ventilation system when provided with the proper controls per Section M1505.4.2. The systems shall be designed and installed to exhaust and/or supply the minimum outdoor airflow rates per Section M1505.4.3 as modified by the whole-house ventilation system coefficients in Section M1504.5.3.1 where applicable. The whole-house ventilation system shall operate continuously at the minimum ventilation rate determined per Section M1505.4.2 unless configured with intermittent off controls per Section M1505.4.3.2.

M1505.4.1.1 Whole-House System Component Requirements

Whole-house ventilation fans must be rated for sound at a maximum of 1.0 sone. This sound rating shall be at a min. of 0.1 in WC static pressure in accordance with HVI procedures specified in IRC M1505.4.1.2 and M1505.4.1.3.

M1505.4.1.4 Balanced Whole-House Ventilation System

A balanced whole-house ventilation system shall include both supply and exhaust fans. The supply and exhaust fans shall have airflow that is within 10% of each other. The tested and balanced total mechanical exhaust airflow rate is within 10% or 5 cfm (0.0024 m3/s), whichever is greater, of the total mechanical supply airflow rate. The flow rate test results shall be submitted and posted in accordance with Section M1505.4.1.7. The exhaust fan shall meet the requirements of Section M1505.4.1.2. The supply fan shall meet the requirements of Section M1505.4.1.3. Balanced ventilation systems with both supply and exhaust fans in a packaged product, such as an ERV/HRV, shall meet the requirements of HVI 920, as applicable. Intermittent dryer exhaust, intermittent range hood exhaust, and intermittent toilet room exhaust airflow rates above the residential dwelling or sleeping unit minimum ventilation rate are exempt from the balanced airflow calculation.

M1505.4.1.5 Furnace Integrated Supply

Systems using space heating and/or cooling air handler fans for outdoor air supply distribution are not permitted.

Exception: Air handler fans shall have multi-speed or variable speed supply airflow control capability with a low speed operation not greater than 25% of the rated supply airflow capacity during ventilation only operation. Outdoor air intake openings must meet the provisions of Sections R303.5 and R303.6 and must include a motorized damper that is activated by the whole-house ventilation system controller. The motorized damper must be controlled to maintain the outdoor airflow intake airflow within 10% of the whole-house mechanical exhaust airflow rate. The flow rate for the outdoor air intake must be tested and verified at the minimum ventilation fan speed and the maximum heating or cooling fan speed. The results of the test shall be submitted and posted in accordance with Section M1505.4.1.7.

M1505.4.2 System Controls

- The whole-house mechanical ventilation system shall be provided with controls that comply with the following:
- The whole-house ventilation system shall be controlled with manual switches, timers or other means that provide for automatic operation of the ventilation system that are readily accessible by the occupant;
- Whole-house mechanical ventilation system shall be provided with controls that enable manual override off of the system by the occupant during periods of poor outdoor air quality. Controls shall include permanent text or a symbol indicating their function. Recommended control permanent labeling to include text similar to the
- following: "Leave on unless outdoor air quality is very poor." Manual controls shall be readily accessible by the occupant; Whole-house ventilation systems shall be configured to operate continuously except where intermittent off controls and sizing are provided per Section M1505.4.3.2.

M1505.4.3 Mechanical Ventilation Rate The whole-house mechanical ventilation system shall provide outdoor air at a continuous rate as determined in accordance with Table M1505.4.3(1) or Equation 15-1.

The minimum whole-house ventilation rate from Section 1505.4.3 shall be adjusted by the system coefficient in Table M1505.4.3(2) based on the system type not meeting the definition of a Balanced Whole-House Ventilation System and/or not meeting the definition of a Distributed Whole-House Ventilation System.

M1505.4.3.2 Intermittent Off Operation

Whole-house mechanical ventilation systems shall be provided with advanced controls that are configured to operate the system with intermittent off operation and shall operate for at least two hours in each four-hour segment. The whole-house ventilation airflow rate determined in accordance with M1505.4.3 as corrected by M1505.4.3.1 is multiplied by the factor determined in accordance with Table M1505.4.3(3).

TABLE M1505.4.3(1)

DWELLING UNIT	N	UMB	ER OI	BED	ROOMS
FLOOR AREA	0 - 1	2	3	4	5 or more
(square feet)		A	irflov	v in c	fm
< 500	30	30	35	45	50
501 - 1,000	30	35	40	50	55
1,001 — 1,500	30	40	45	55	60
1,501 - 2,000	35	45	50	60	65
2,001 - 2,500	40	50	55	65	70
2,501 - 3,000	45	55	60	70	75
3,001 - 3,500	50	60	65	75	80
3,501 — 4,000	55	65	70	80	85
4,001 — 4,500	60	70	75	85	90
4,501 — 5,000	65	75	80	90	95

For SI: 1 square foot = 0.0929 m^2 , 1 cubic foot per minute = $0.0004719 \text{ m}^3/\text{s}$.

TABLE M1505.4.3(2)

SYSTEM COEFFICIENT C _{system})		
SYSTEM TYPE	DISTRIBUTED	NOT DISTRIBUTED
Balanced	1.0	1.25
Not balanced	1.25	1.5

TABLE M1505.4.3(3)

INTERMITTENT OFF WHOLE-HOUSE MECHANICAL VENTILATION RATE FACTORS^{a,b}

RUN-TIME % IN EACH 4-HOUR SEGMENT	50%	66%	75%	100%
Factor ^a	2	1.5	1.3	1.0

a. For ventilation system run-time values between those given, the factors are permitted to be determined by interpolation.

b. Extrapolation beyond the table is prohibited.

Simple Heating System Size: Washington State

4,879 SF

90 CFM

50 %

90 CFM X 2 = **180 CFM**,

90 CFM X 1.0* = 90 CFM

WHOLE HOUSE VENTILATION CALCS

*NOTE: VENTILATION SYSTEM ASSUMED TO BE BALANCED AND DISTRIBUTED, CONTRACTOR TO VERIFY

LEAST TWO HOURS IN EACH FOUR-HOUR SEGMENT. THE WHOLE HOUSE VENTILATION AIRFLOW RATE

MULTIPLIED BY THE FACTOR DETERMINED IN ACCORDANCE WITH TABLE M1505.4.3(3).

DETERMINED IN ACCORDANCE WITH SECTION M1505.4.3 AS CORRECTED BY SECTION M1505.4.3.1 IS

*OUTDOOR AIR INLET DUCT TO BE FIELD LOCATED WITH HVAC SUBCONTRACTOR IN CONJUNTION WITH

1. CONTRACTOR TO COORDINATE WHOLE-HOUSE VENTILATION SYSTEM WITH WSEC ENERGY CREDITS NOTED ON

SHEET GOO1, UPDATE CALCULATIONS AND COORDINATED APPROVAL WITH THE MERCER ISLAND CPD IF REQUIRED.

WHOLE HOUSE MECHANICAL VENTILATION SYSTEMS SHALL BE PROVIDED WITH ADVANCED CONTROLS THAT

ARE CONFIGURED TO OPERATE THE SYSTEM WITH INTERMITTENT OFF OPERATION AND SHALL OPERATE FOR A

PROPOSED CONDITIONED SF =

AIRFLOW IN CFM REQUIRED FOR CONTINUOUS VENTILATION =

QUALITY ADJUSTED AIRFLOW VENTILATION RATE =

M1505.4.3.2 INTERMITTENT OFF OPERATION

PLACING EXHAUST DUCTS IN ORDER TO AVOID CONFLICT.

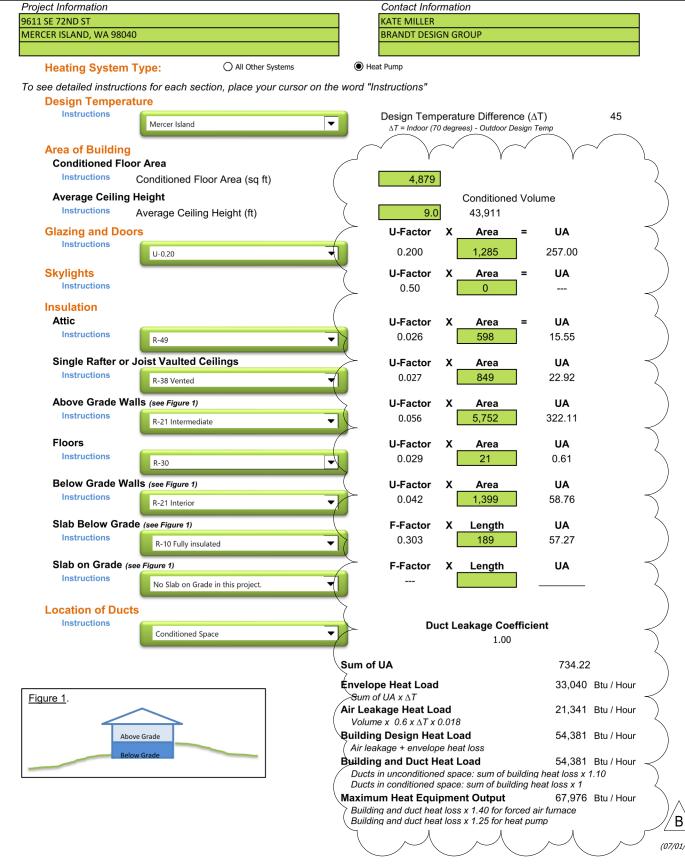
RUN TIME PERCENTAGE IN EACH 4 HOUR SEGMENT =

NUMBER OF BEDROOMS =

FACTOR =

CALCULATION

This heating system sizing calculator is based on the Prescriptive Requirements of the 2018 Washington State Energy Code (WSEC) and ACCA Manuals J and S. This tool will calculate heating loads only. ACCA procedures for sizing cooling systems should be used to determine cooling loads. Please complete the green drop-downs and boxes that are applicable to your project. As you make selections in the drop-downs for each section, some values will be calculated for you. If you do not see the selection you need in the drop-down options, please contact the WSU Energy Program at energycode@energy.wsu.edu or (360) 956-2042 for assistance.



MECHANICAL TO BE BIDDER DESIGNED AND WILL BE SUBMITTED AND REVIEWED UNDER A SEPARATE PERMIT. CONTRACTOR TO COORDINATE ENERGY CODE REQUIREMENTS PER INFORMATION AND NOTES ON SHEETS G001 & G002. ANY REVISIONS MUST BE COORDINATED WITH THE MERCER ISLAND CPD FOR APPROVAL.

GENERAL BUILDING ENVELOPE NOTES:

1. A CONTINUOUS AIR BARRIER SHALL BE INSTALLED IN THE BUILDING ENVELOPE. EXTERIOR THERMAL ENVELOPE CONTAINS A CONTINUOUS AIR BARRIER, BREAKS OR JOINTS IN THE AIR BARRIER SHALL BE SEALED PER WSEC TABLE R402.4.1.1.

2. CAVITY INSULATION INSTALLATION: ALL CAVITIES IN THE THERMAL ENVELOPE TO BE FILLED WITH INSULATION PER THE ABOVE

3. CEILING/ATTIC: THE AIR BARRIER IN ANY DROPPED CEILING/SOFFIT SHALL BE ALIGNED WITH THE INSULATION AND ANY GAPS IN THE AIR

BARRIER SEALED. ACCESS OPENINGS, DROP DOWN STAIR OR KNEE WALL DOORS TO UNCONDITIONED ATTIC SPACES SHALL BE SEALED.

4. WALLS: THE JUNCTION OF THE FOUNDATION AND SILL PLATE SHALL BE SEALED. THE JUNCTION OF THE TOP LATE AND THE TOP OF EXTERIOR WALLS SHALL BE SEALED. KNEE WALLS SHALL BE SEALED.

5. WINDOWS/SKYLIGHTS/DOORS: THE SPACE BETWEEN WINDOW/DOOR JAMBS AND FRAMING AND SKYLIGHTS AND FRAMING SHALL BE

6. RIM JOISTS: RIM JOISTS SHALL INCLUDE THE AIR BARRIER.

ASSEMBLIES AND WSEC R402.4.1.1.

7. FLOORS: THE AIR BARRIER SHALL BE INSTALLED AT ANY EXPOSED EDGE OF INSULATION.

8. CRAWL SPACE WALLS: EXPOSED EARTH IN UNVENTED CRAWL SPACES SHALL BE COVERED WITH A CLASS I, BLACK VAPOR RETARDER WITH OVERLAPPING JOINTS TAPED.

9. SHAFTS/PENETRATIONS: DUCT SHAFTS, UTILITY PENETRATIONS, AND FLUE SHAFTS OPENING TO EXTERIOR OR UNCONDITIONED SPACE SHALL BE SEALED.

10. NARROW CAVITIES: BATTS IN NARROW CAVITIES SHALL BE CUT TO FIT AND INSTALLED TO THE CORRECT DENSITY WITHOUT ANY VOIDS, GAPS OR COMPRESSION OR NARROW CAVITIES SHALL BE FILLED BY INSULATION THAT ON INSTALLATION READILY CONFORMS TO

11. GARAGE SEPARATION: AIR SEALING SHALL BE PROVIDED BETWEEN THE GARAGE AND CONDITIONED SPACED.

12. RECESSED LIGHTING: RECESSED LIGHT FIXTURES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE SEALED TO THE

13. PLUMBING AND WIRING: BATT INSULATION SHALL BE CUT NEATLY TO FIT AROUND WIRING AND PLUMBING IN EXTERIOR WALLS. THERE SHALL BE NO VOIDS, GAPS, OR COMPRESSION WHERE CUT TO FIT. INSULATION THAT ON INSTALLATION READY CONFORMS TO AVAILABLE SPACE SHALL EXTEND BEHIND PIPING AND WIRING.

14. SHOWER/TUB ON EXTERIOR WALL: THE AIR BARRIER INSTALLED AT EXTERIOR WALLS ADJACENT TO SHOWERS AND TUBS SHALL SEPARATE THE WALL FROM THE SHOWERS AND TUBS.

15. ELECTRICAL/PHONE BOX ON EXTERIOR WALL: THE AIR BARRIER SHALL BE INSTALLED BEHIND THE ELECTRICAL OR COMMUNICATION BOXES OR AIR SEALED BOXES SHALL BE INSTALLED

16. HVAC REGISTER BOOTS: HVAC SUPPLY AND RETURN REGISTER FOOTS SHALL BE SEALED TO THE SUBFLOOR, WALL COVERING, OR CEILING PENETRATED BY THE BOOT.

17. CONCEALED SPRINKLERS: WHEN REQUIRED TO BE SEALED, CONCEALED FIRE SPRINKLERS SHALL ONLY BE SEALED IN A MANNER THAT IS RECOMMENDED BY THE MANUFACTURER. CAULKING OR OTHER ADHESIVE SEALANTS SHALL NOT BE USED TO FILL VOIDS BETWEEN FORE SPRINKLER COVER PLATES AND WALLS OR CEILINGS.

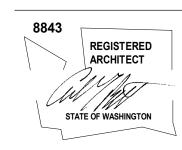
Brandt

Design Group

66 Bell Street Unit 1 Seattle, WA 98121

206.239.0850

brandtdesigninc.com



PERMIT SET

DATE: 9/17/21 D (24X36)

DESCRIPTION

04.05.22

11.07.22

PLAN CHECK 1

PLAN CHECK 2

DRAWN BY:

CHECKED BY: LEAKAGE TESTING/ **CALCULATIONS**

1/4" = 1'-0"

SITUATE IN THE COUNTY OF KING, STATE OF WASHINGTON.

RECORDS OF KING COUNTY, WASHINGTON.

BASIS OF BEARINGS

N 89°50'54" E BETWEEN FOUND PROPERTY CORNERS ALONG THE SOUTH PROPERTY LINE PER R1.

REFERENCES

R1. CITY OF MERCER ISLAND SP 78-3-009, AFN. 7903280701, RECORDS OF KING COUNTY, WASHINGTON.

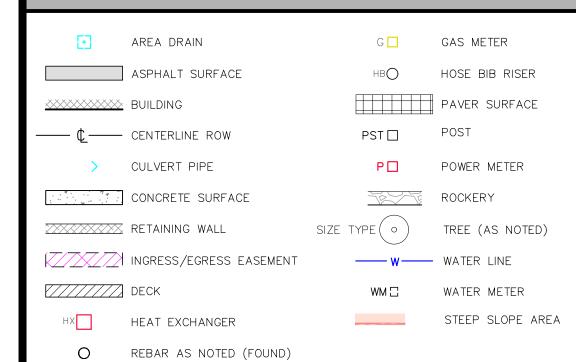
VERTICAL DATUM

NAVD88 PER CITY OF MERCER ISLAND BENCHMARK #2410 (DB ID: 47054) ELEV: 92.553

SURVEYOR'S NOTES

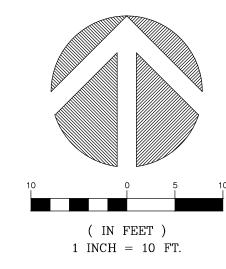
- 1. THE TOPOGRAPHIC SURVEY SHOWN HEREON WAS PERFORMED IN JANUARY OF 2021. THE FIELD DATA WAS COLLECTED AND RECORDED ON MAGNETIC MEDIA THROUGH AN ELECTRONIC THEODOLITE. THE DATA FILE IS ARCHIVED ON DISC OR CD. WRITTEN FIELD NOTES MAY NOT EXIST. CONTOURS ARE SHOWN FOR CONVENIENCE ONLY. DESIGN SHOULD RELY ON SPOT ELEVATIONS.
- 2. ALL MONUMENTS SHOWN HEREON WERE LOCATED DURING THE COURSE OF THIS SURVEY UNLESS OTHERWISE NOTED.
- 3. THE TYPES AND LOCATIONS OF ANY UTILITIES SHOWN ON THIS DRAWING ARE BASED ON INFORMATION PROVIDED TO US, BY OTHERS OR GENERAL INFORMATION READILY AVAILABLE IN THE PUBLIC DOMAIN INCLUDING, AS APPLICABLE, IDENTIFYING MARKINGS PLACED BY UTILITY LOCATE SERVICES AND OBSERVED BY TERRANE IN THE FIELD. AS SUCH, THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY AND SHOULD NOT BE RELIED ON FOR DESIGN OR CONSTRUCTION PURPOSES; TERRANE IS NOT RESPONSIBLE OR LIABLE FOR THE ACCURACY OR COMPLETENESS OF THIS UTILITY INFORMATION. FOR THE ACCURATE LOCATION AND TYPE OF UTILITIES NECESSARY FOR DESIGN AND CONSTRUCTION, PLEASE CONTACT THE SITE OWNER AND THE LOCAL UTILITY LOCATE SERVICE (800-424-5555).
- 4. SUBJECT PROPERTY TAX PARCEL NO. 257950-0040
- 5. SUBJECT PROPERTY AREA PER THIS SURVEY IS 16,175 ±S.F.
- 6. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT. EASEMENTS AND OTHER ENCUMBRANCES MAY EXIST THAT ARE NOT SHOWN HEREON.
- 7. FIELD DATA FOR THIS SURVEY WAS OBTAINED BY DIRECT FIELD MEASUREMENTS WITH A CALIBRATED ELECTRONIC 5-SECOND TOTAL STATION AND/OR SURVEY GRADE GPS OBSERVATIONS. ALL ANGULAR AND LINEAR RELATIONSHIPS ARE ACCURATE AND MEET THE STANDARDS SET BY WAC 332-130-090.

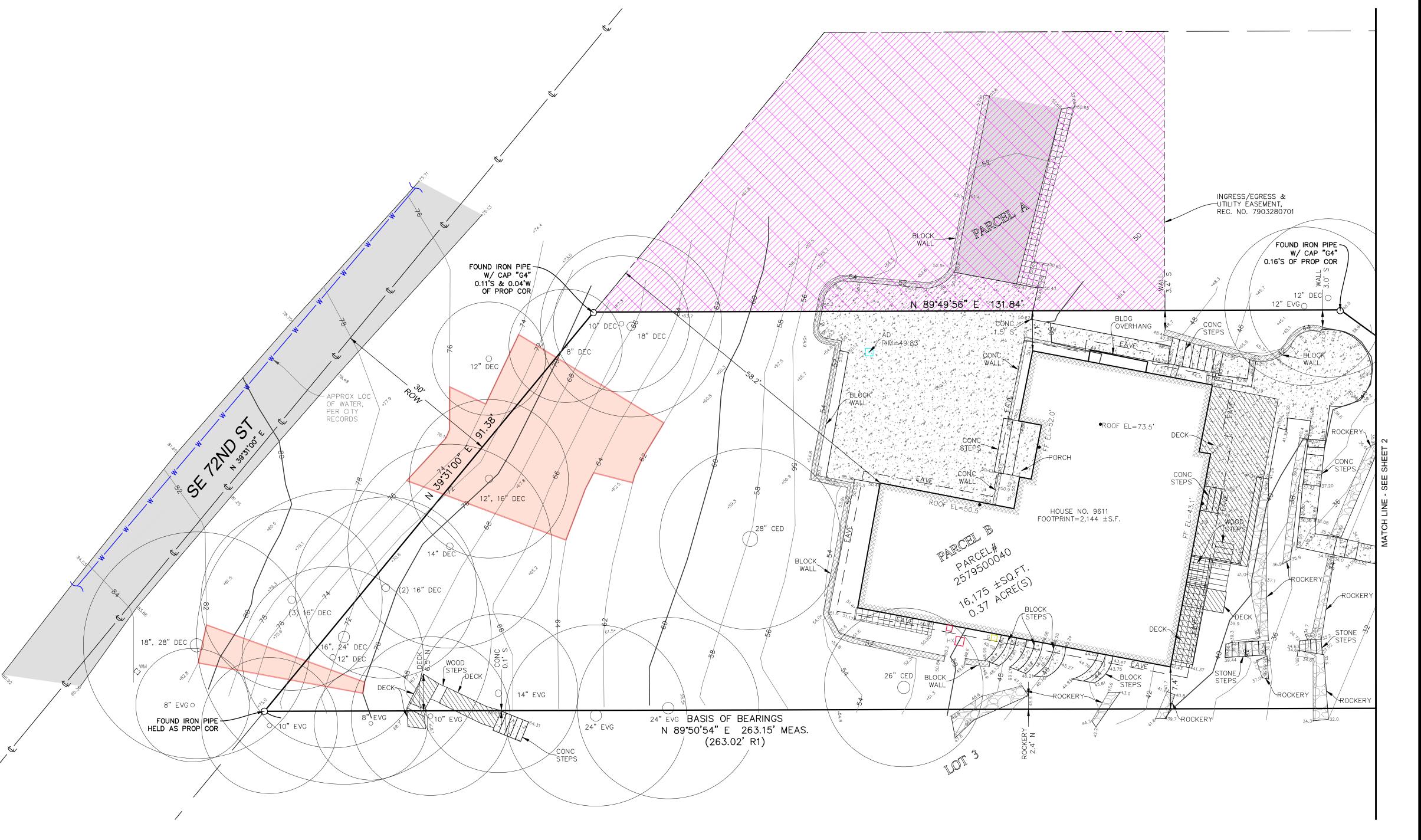
LEGEND





TOPOGRAPHIC & BOUNDARY SURVEY





STEEP SLOPE/BUFFER DISCLAIMER:

THE LOCATION AND EXTENT OF STEEP SLOPES SHOWN ON THIS DRAWING ARE FOR INFORMATIONAL PURPOSES ONLY AND CANNOT BE RELIED ON FOR DESIGN AND/OR CONSTRUCTION. THE PITCH, LOCATION, AND EXTENT ARE BASED SOLELY ON OUR GENERAL OBSERVATIONS ON SITE AND OUR CURSORY REVIEW OF READILY AVAILABLE PUBLIC DOCUMENTS; AS SUCH, TERRANE CANNOT BE LIABLE OR RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY STEEP SLOPE INFORMATION. ULTIMATELY, THE LIMITS AND EXTENT OF ANY STEEP SLOPES ASSOCIATED WITH ANY SETBACKS OR OTHER DESIGN OR CONSTRUCTION PARAMETERS MUST BE DISCUSSED AND APPROVED BY THE REVIEWING AGENCY BEFORE ANY CONSTRUCTION CAN OCCUR.

INDEXING INFORMATION SECTION: 30 RANGE: <u>05E</u>

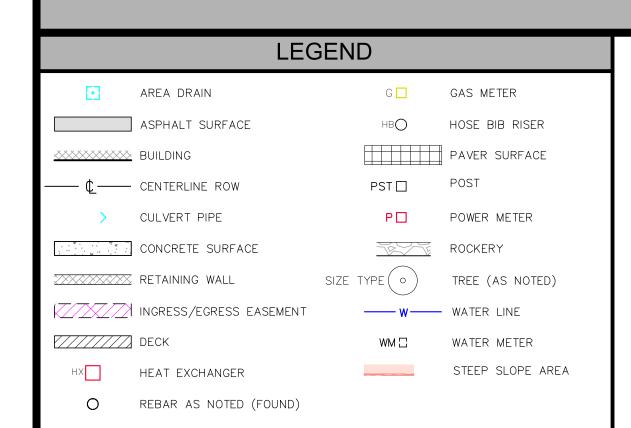
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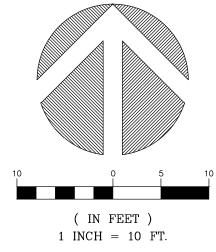
09/01/21 PER COMMENTS SHEET NUMBER 1 OF 2

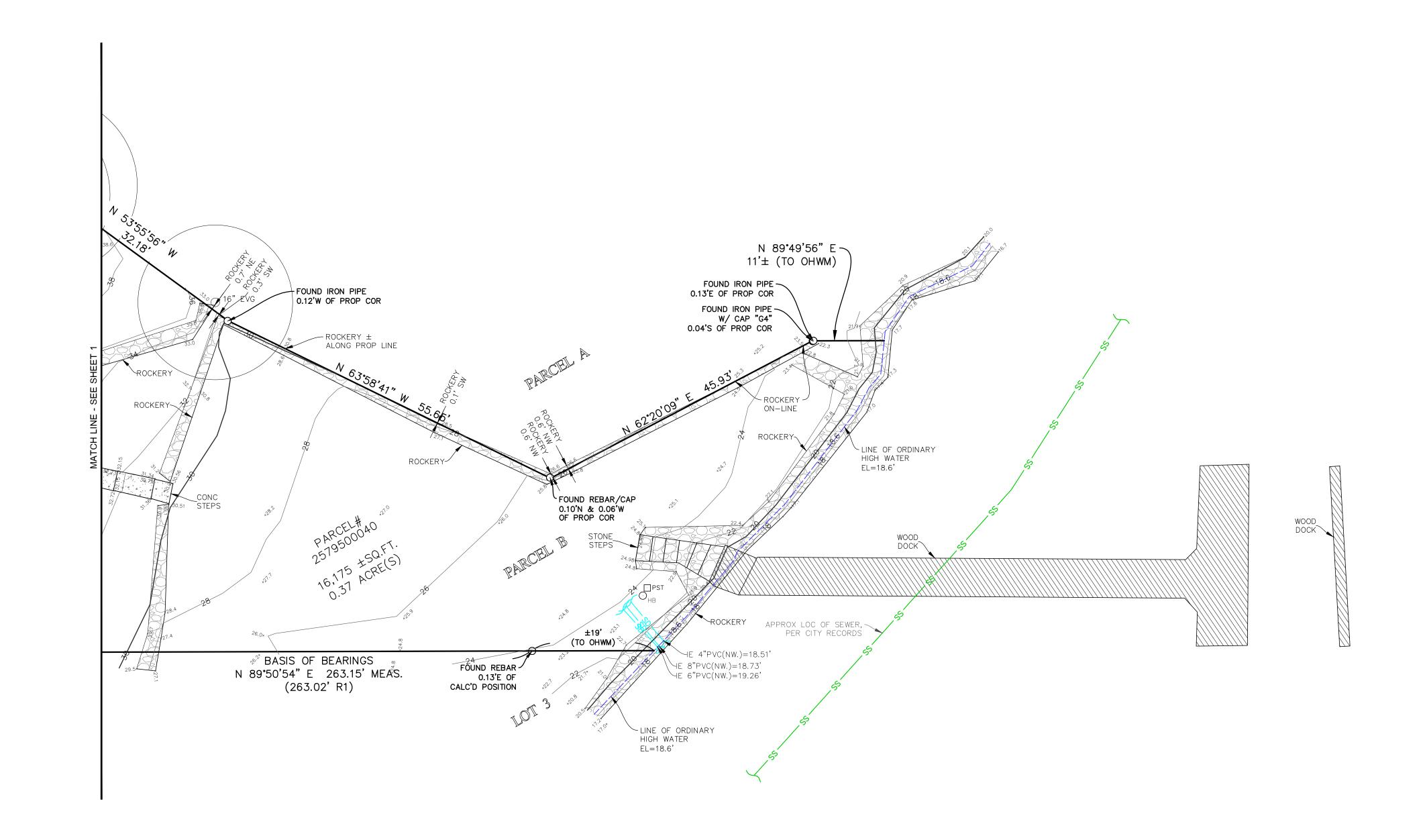
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REVISION HISTORY

TOPOGRAPHIC & BOUNDARY SURVEY

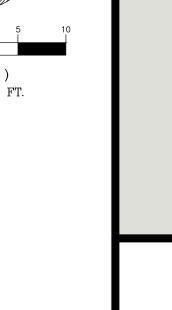


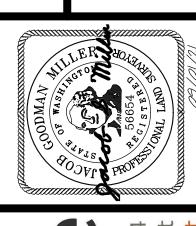


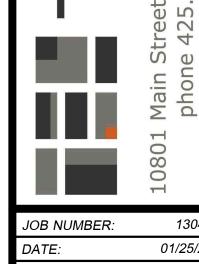


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JOD NO	MDLIX.	10040	
DATE:		01/25/21	
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SHEET NUMBER 2 OF 2

EROSION CONTROL NOTES

D.8.2 STANDARD ESC PLAN NOTES

THE STANDARD ESC PLAN NOTES MUST BE INCLUDED ON ALL ESC PLANS. AT THE APPLICANT'S DISCRETION, NOTES THAT IN NO WAY APPLY TO THE PROJECT MAY BE OMITTED; HOWEVER, THE REMAINING NOTES MUST NOT BE RENUMBERED. FOR EXAMPLE, IF ESC NOTE #3 WERE OMITTED, THE REMAINING NOTES SHOULD BE NUMBERED 1, 2, 4, 5, 6, ETC.

1. APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).

2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE

APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.

3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY SURVEY TAPE OR FENCING, IF REQUIRED, PRIOR TO CONSTRUCTION (SWDM APPENDIX D). DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.

4. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS CONSTRUCTED WHEEL WASH SYSTEMS OR WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN AND TRACK OUT TO ROAD RIGHT OF WAY DOES NOT OCCUR FOR THE DURATION OF THE PROJECT.

5. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.

6. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G. ADDITIONAL COVER MEASURES, ADDITIONAL SUMP PUMPS, RELOCATION OF

DITCHES AND SILT FENCES, PERIMETER PROTECTION ETC.) AS DIRECTED BY CITY OF MERCER ISLAND.

7. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES.

8. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO CONSECUTIVE DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).

ANY AREA NEEDING ESC MEASURES THAT DO NOT REQUIRE IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS.
 THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE

10. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH DURING THE DRY SEASON, BI-MONTHLY DURING THE WET SEASON, OR WITHIN TWENTY FOUR (24) HOURS FOLLOWING A STORM EVENT.

11. AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.

12. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE ROUGH GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY.

13. COVER MEASURES WILL BE APPLIED IN CONFORMANCE WITH APPENDIX D OF THE SURFACE WATER DESIGN MANUAL

14. PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON.

RECOMMENDED CONSTURCTION SEQUENCE

A DETAILED CONSTRUCTION SEQUENCE IS NEEDED TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES ARE APPLIED AT THE APPROPRIATE TIMES. A RECOMMENDED CONSTRUCTION SEQUENCE IS PROVIDED BELOW:

1. HOLD AN ONSITE PRE-CONSTRUCTION MEETING.

POST SIGN WITH NAME AND PHONE NUMBER OF ESC SUPERVISOR (MAY BE CONSOLIDATED WITH THE REQUIRED NOTICE OF CONSTRUCTION SIGN).

FLAG OR FENCE CLEARING LIMITS.
 INSTALL CATCH BASIN PROTECTION, IF REQUIRED.

. GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).

5. INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).

7. CONSTRUCT SEDIMENT PONDS AND TRAPS.

GRADE AND STABILIZE CONSTRUCTION ROADS.

APPROPRIATE.

CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.)
SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.

10. MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY OF MERCER ISLAND STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.

11. RELOCATE SURFACE WATER CONTROLS OR TESC MEASURES, OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE TESC IS ALWAYS IN ACCORDANCE WITH CITY OF MERCER

12. COVER ALL AREAS THAT WILL BE UN-WORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON (MAY 1 TO SEPT 30) OR TWO DAYS DURING THE WET SEASON (OCT 1 TO APRIL 30) WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING, OR EQUIVALENT.

STABILIZE ALL AREAS WITHIN SEVEN DAYS OF REACHING FINAL GRADE.
 SEED, SOD, STABILIZE, OR COVER ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
 UPON COMPLETION OF THE PROJECT, STABILIZE ALL DISTURBED AREAS AND REMOVE BMPS IF

CITY NOTES:

1. ANY CHANGES TO THE APPROVED PLANS REQUIRES CITY APPROVAL THROUGH A REVISION.

APPLICANT IS RESPONSIBLE FOR ANY DAMAGES TO UNDERGROUND UTILITIES CAUSED FROM THIS CONSTRUCTION.
 CATCH BASIN FILTERS SHOULD BE PROVIDED FOR ALL STORM DRAIN CATCH BASINS/INLETS

3. CATCH BASIN FILTERS SHOULD BE PROVIDED FOR ALL STORM DRAIN CATCH BASINS/INLETS DOWNSLOPE AND WITHIN 500 FEET OF THE CONSTRUCTION AREA. CATCH BASIN FILTERS SHOULD BE DESIGNED BY THE MANUFACTURER FOR USE AT CONSTRUCTION SITES AND APPROVED BY THE CITY INSPECTOR. CATCH BASIN FILTERS SHOULD BE INSPECTED FREQUENTLY, ESPECIALLY AFTER STORM EVENTS. IF THE FILTER BECOMES CLOGGED, IT SHOULD BE CLEANED OR REPLACED.

4. CONTRACTORS SHALL VERIFY LOCATIONS AND DEPTHS OF UTILITIES.

5. AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, CALL "ONE CALL" AT 1.800.424.5555

DO NOT BACKFILL WITH NATIVE MATERIAL ON PUBLIC RIGHT-OF-WAY. ALL MATERIAL MUST BE IMPORTED.
 EROSION CONTROL: ALL "LAND DISTURBING ACTIVITY" IS SUBJECT TO PROVISIONS OF MERCER

ISLAND ORDINANCE 95C-118 "STORM WATER MANAGEMENT." SPECIFIC ITEMS TO BE FOLLOWED AT YOUR SITE:

8. PROTECT ADJACENT PROPERTIES FROM ANY INCREASED RUNOFF OR SEDIMENTATION DUE TO THE CONSTRUCTION PROJECT THROUGH THE USE OF APPROPRIATE "BEST MANAGEMENT PRACTICES"

FABRIC FENCES, VEGETATIVE BUFFER STRIPS OR BIOENGINEERED SWALES.

9. CONSTRUCTION ACCESS TO THE SITE SHOULD BE LIMITED TO ONE ROUTE. STABILIZE ENTRANCE WITH QUARRY SPALLS TO PREVENT SEDIMENT FROM LEAVING THE SITE OR ENTERING THE STORM DRAINS.

(BMP) EXAMPLES INCLUDE, BUT ARE NOT LIMITED TO, SEDIMENT TRAPS, SEDIMENT PONDS, FILTER

 PREVENT SEDIMENT, CONSTRUCTION DEBRIS, PAINTS, SOLVENTS, ETC., OR OTHER TYPES OF POLLUTION FROM ENTERING PUBLIC STORM DRAINS. KEEP ALL POLLUTION ON YOUR SITE.
 ALL EXPOSED SOILS SHALL REMAIN DENUDED FOR NO LONGER THAN SEVEN (7) DAYS AND SHALL BE

STABILIZED WITH MULCH, HAY, OR THE APPROPRIATE GROUND COVER. ALL EXPOSED SOILS SHALL BE

COVERED IMMEDIATELY DURING ANY RAIN EVENT.

12. INSTALLATION OF CONCRETE DRIVEWAYS, TREES, SHRUBS, IRRIGATION, BOULDERS, BERMS, WALLS, GATES, AND OTHER IMPROVEMENTS ARE NOT ALLOWED IN THE PUBLIC RIGHT-OF-WAY WITHOUT PRIOR APPROVAL, AND AN ENCROACHMENT AGREEMENT AND RIGHT OF WAY PERMIT FROM THE

SENIOR DEVELOPMENT ENGINEER.

13. OWNER SHALL CONTROL DISCHARGE OF SURFACE DRAINAGE RUNOFF FROM EXISTING AND NEW IMPERVIOUS AREAS IN A RESPONSIBLE MANNER. CONSTRUCTION OF NEW GUTTERS AND DOWNSPOUTS, DRY WELLS, LEVEL SPREADERS OR DOWNSTREAM CONVEYANCE PIPE MAY BE NECESSARY TO MINIMIZE DRAINAGE IMPACT TO YOUR NEIGHBORS. CONSTRUCTION OF MINIMUM DRAINAGE IMPROVEMENTS SHOWN OR CALLED OUT ON THIS PLAN DOES NOT IMPLY RELIEF FROM CIVIL LIABILITY FOR YOUR DOWNSTREAM DRAINAGE.

14. POT HOLING THE PUBLIC UTILITIES IS REQUIRED PRIOR TO ANY GRADING ACTIVITIES LESS THAN 6" OVER THE PUBLIC MAINS (WATER, SEWER AND STORM SYSTEMS). IF THERE IS A CONFLICT, THE APPLICANT IS REQUIRED TO SUBMIT A REVISION FOR APPROVAL PRIOR TO ANY GRADING ACTIVITIES OVER THE PUBLIC MAINS.

15. REMEMBER: EROSION CONTROL IS YOUR FIRST INSPECTION.

16. ROOF DRAINS MUST BE CONNECTED TO THE STORM DRAIN SYSTEM AND INSPECTED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO ANY BACKFILLING OF PIPE.

17. SILENT FENCE: CLEAN AND PROVIDE REGULAR MAINTENANCE OF THE SILT FENCE. THE FENCE IS TO REMAIN VERTICAL AND IS TO FUNCTION PROPERLY THROUGHOUT THE TERM OF THE PROJECT.
 18. WORK IN PUBLIC RIGHT OF WAY REQUIRES A RIGHT-OF-WAY USE PERMIT.

19. REFER TO WATER SERVICE PERMIT FOR ACTUAL LOCATION OF NEW WATER METER AND SERVICE LINE DETERMINED BY MERCER ISLAND WATER DEPARTMENT.

20. THE TV INSPECTION OF THE EXISTING SIDE SEWER TO THE CITY SEWER MAIN IS REQUIRED. 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. ALTERNATELY, A PRESSURE TEST OF THE SIDE SEWER, FROM SEWER MAIN TO POINT OF CONNECTION, MAY BE SUBSTITUTED FOR THE VIDEO INSPECTION.

21. NEWLY INSTALLED SIDE SEWER REQUIRES A 4 P.S.I. AIR TEST OR PROVIDE 10' OF HYDROSTATIC HEAD

TEST.

22. POT HOLING THE PUBLIC UTILITIES IS REQUIRED PRIOR TO ANY GRADING ACTIVITIES LESS THAN 6"
OVER THE PUBLIC MAINS (WATER, SEWER AND STORM SYSTEMS). IF THERE IS A CONFLICT, THE
APPLICANT IS REQUIRED TO SUBMIT A REVISION FOR APPROVAL PRIOR TO ANY GRADING ACTIVITIES
OVER THE PUBLIC MAINS.

23. THE LIMITS AND EXTENDS OF THE PAVEMENT IN THE PUBLIC RIGHT OF WAY SHALL BE DETERMINED BY THE CITY ENGINEER PRIOR TO FINALIZE THE PROJECT.

ESC GENERAL NOTE

THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE. ANY SUCH FACILITIES INSTALLED MUST BE MAINTAINED IN PROPER OPERATING CONDITION UNTIL ALL DISTURBED AREAS HAVE BEEN REVEGETATED OR OTHERWISE DEVELOPED AND THE POTENTIAL FOR EROSION ELIMINATED.

CLEARING LIMIT NOTE

ALL SELECTIVE CLEARING, TRENCHING AND OTHER WORK WITHIN THE DRIPLINES OF SIGNIFICANT TREES SHALL BE BY LOW IMPACT/HAND METHODS ONLY AND WORK SHALL BE ADJUSTED AS POSSIBLE TO MINIMIZE ANY DISTURBANCE TO THE SIGNIFICANT AND RETAINED TREES AND PROTECTED UNDERSTORY. CONSTRUCTION MATERIALS AND VEHICLES SHALL NOT BE STORED OUTSIDE THE CLEARING LIMITS.

TREE DRIPLINE NOTE

WORK WITHIN THE DRIPLINE OF TREES TO BE SAVED MUST BE UNDER THE DIRECTION OF A CERTIFIED ARBORIST (TYP.) SEE ALSO CLEARING LIMIT NOTE, THIS SHEET.

EROSION CONTROL DETAILS

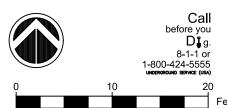
SEE SHEET C110

SOIL AMENDMENT NOTES

COMPOST AMENDED SOIL REQUIRED ON ALL LANDSCAPED AREAS AFTER CONSTRUCTION. SEE DETAIL ON SHEET C110

TREE REMOVAL NOTES

FOR ALL TREE REMOVAL, REFER TO PROJECT ARBORIST REPORT. ALL TREE REMOVALS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY



LEGEND

PROPERTY LINE

BUILDING OUTLINE

LIMITS OF DISTURBANCE

SILT FENCE

CONSTRUCTION ENTRANCE

INLET PROTECTION

INTERCEPTOR SWALE

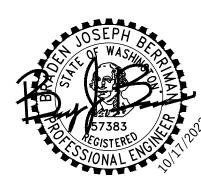
TREE PROTECTION FENCING

STRAW WADDLE

SHORING (SEE SHORING PLANS)

LATITUDE \$\frac{4}{8}\$

LATITUDE 48, P.S.
CONTACT: BRADY BERRIMAN
PHONE NUMBER: 206.556.1615



BER RESIDENC

CITY OF MERCER ISLAND

PERMIT SUBMITTAL

SEPTEMBER 16, 2021

REVISIONS		
NO.	DESCRIPTION	DATE
Α	PLAN CHECK 1	04.14.
В	PLAN CHECK 2	10.17.

DRAWN BY: BJB
CHECKED BY: CJS

PERMIT SUBMITTAL

TESC PLAN

SCALE: AS NOTED

STORM AND SURFACE

TEMPORARY CONSTRUCTION FENCING / /

SOIL AMENDMENT

AMENDED SOILS

NOTES:

VEGETATION.

AMEND SOILS PER DOE MANUAL, VOL. V, 5.3.1, BMP T5.13, (2012 OR CURRENT) OR WWW.SOILSFORSALMON.ORG.

2. DO NOT AMEND SOILS IN AREAS WITH

UNDISTURBED SOIL AND NATIVE

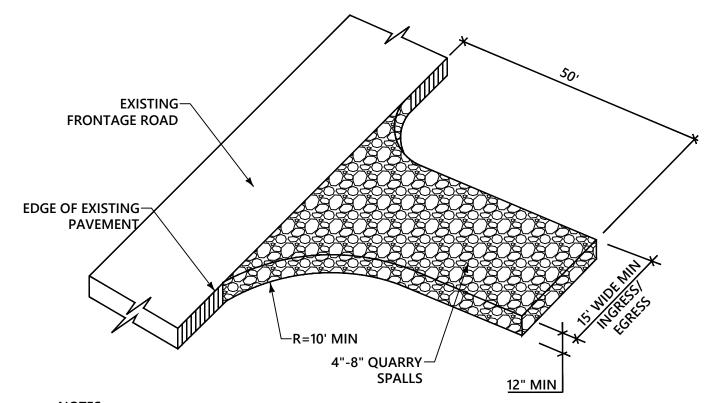
3. OPTIONAL ALTERNATIVE: STOCKPILE NATIVE TOPSOIL ONSITE, AMEND IF

NEEDED, AND REPLACE BEFORE PLANTING.

4. OPTIONAL ALTERNATIVE: IMPORT TOPSOIL MIX OF SUFFICIENT ORGANIC CONTENT

AND DEPTH TO MEET REQUIREMENTS.

NW/NE 1/4 OF SE 1/4, SECTION 30, TOWNSHIP 24N, RANGE 5E, W.M.



- 1. MATERIAL SHALL BE QUARRY SPALLS PER WSDOT 2014 STANDARD SPECIFICATION 9-13.6 AND MAY BE TOP-DRESSED WITH 1"-3" ROCK.
- 2. THE ROCK PAD SHALL BE AT LEAST 12 INCHES THICK AND 100 FEET LONG. WIDTH SHALL BE THE FULL WIDTH OF THE VEHICLE INGRESS AND EGRESS AREA.
- 3. ADDITIONAL ROCK SHALL BE ADDED PERIODICALLY TO MAINTAIN PROPER FUNCTION OF THE PAD.
- 4. IF THE PAD DOES NOT ADEQUATELY REMOVE THE MUD FROM THE VEHICLE WHEELS, THE WHEELS SHALL BE HOSED OFF BEFORE THE VEHICLE ENTERS A PAVED STREET. THE WASHING SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK AND WASH WATER SHALL DRAIN TO A SEDIMENT RETENTION FACILITY OR THROUGH A SILT FENCE.
- GEOTEXTILE SHALL MEET THE FOLLOWING: GRAB TENSILE STRENGTH 200 PSI MIN. GRAB TENSILE LONGATION 30% MAX. MULLEN BURST STRENGTH 400 PSI MIN. AOS 2-45(U.S. STANDARD SIEVE)

ADAPTOR SKIRT RETRIEVAL STRAP **FABRIC EXISTING** STRUCTURE SEDIMENT ACCUMULATION

- 1. FILTERS SHALL BE INSPECTED AFTER EACH STORM EVENT AND **CLEANED OR REPLACED WHEN 1/3 FULL**
- 2. INSTALL INLET PROECTION IN ALL NEW STORM STRUCTURES

THAT WILL COLLECT STORMWATER AS THEY ARE INSTALLED.

INLET PROTECTION

CONSTRUCTION ENTRANCE

MIN

5/8" WIRE ROPE PROVIDE SECURE END $\,\neg$ ATTACHMENT AT CORNER AND GATE POSTS AND PROVIDE RUNNING ATTACHMENT AT LINE POSTS AND NEAR CENTER OF EACH FENCE PANEL TRUSS ROD 3/8" DIA -W/ TENSION DEVICE 1.666 INCH O.D. - STRETCHER LINE POST (TYP) BAR 2.375 INCH 0.D. **TENSION WIRE** BRACE RAIL CONCRETE BLOCK AND CABLE 1.666 INCH O.D. STD WGT GALVANIZED CORNER POST

2" X 4" BY 14 GA. WIRE-FABRIC OR EQUIVALENT, **AFFIX TO POST** PROVIDE 3/4" - 1 1/2" WASHED— GRAVEL BACKFILL IN TRENCH AND ON BOTH SIDES OF FILTER FENCE FABRIC ON THE SURFACE 2" X 4" WOOD-POST OR STEEL FENCE POST FILTER FABRIC MATERIAL 60"— WIDE ROLLS - USE RINGS TO SIDE VIEW ATTACH TO WIRE FABRIC 2" X 4" BY 14 GA. WIRE FABRIC OR EQUIVALENT —BURY BOTTOM OF FILTER MATERIAL IN 8"X12" TRENCH -2" X 4" WOOD POST **FRONT VIEW** OR STEEL FENCE POST

FILTER FABRIC—

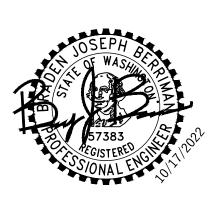
MATERIAL MIRAFI 100 NS OR EQUIVALENT

1. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM SIX-INCH OVERLAP, AND BOTH ENDS SECURELY FASTENED TO THE POST.

- 2. THE FILTER FABRIC FENCE SHALL BE INSTALLED TO FOLLOW THE CONTOURS (WHERE FEASIBLE). THE FENCE POSTS SHALL BE SPACED A MAXIMUM OF SIX FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 30").
- 3. A TRENCH SHALL BE EXCAVATED, ROUGHLY EIGHT INCHES WIDE AND TWELVE INCHES DEEP, UPSLOPE AND ADJACENT TO THE WOOD POST TO ALLOW THE FILTER FABRIC TO BE BURIED.
- 4. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST ONE INCH LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF FOUR INCHES AND SHALL NOT EXTEND MORE THAN THIRTY SIX INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- 5. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND TWENTY INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN THIRTY SIX INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
- 6. WHEN EXTRA-STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF STANDARD NOTE (5) APPLYING.
- 7. THE TRENCH SHALL BE BACKFILL WITH 3/4 INCH MINIMUM DIAMETER WASHED GRAVEL.
- 8. FILTER FABRIC FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
- 9. FILTER FABRIC FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- 10. CONTRIBUTING LENGTH TO FENCE SHALL NOT BE MORE THAN 100 FEET.
- 11. DO NOT INSTALL BELOW AN OUTLET PIPE OR WEIR
- 12. DO NOT DRIVE OVER OR FILL OVER FILTER FABRIC FENCE

NOTES SCALE: AS NOTED

LATITUDE 48, P.S. CONTACT: BRADY BERRIMAN PHONE NUMBER: 206.556.1615



CITY OF MERCER ISLAND

PERMIT SUBMITTAL

SEPTEMBER 16, 2021

REVISIONS NO. <u>DESCRIPTION</u> PLAN CHECK 1 B PLAN CHECK 2 10.17.22

DRAWN BY:

CHECKED BY:

PERMIT SUBMITTAL

TESC DETAILS &

LATITUDE 48, P.S.
CONTACT: BRADY BERRIMAN
PHONE NUMBER: 206.556.1615



UBER RESIDENCE

1 SE 72ND ST

RCER ISLAND, WA 98040

CITY OF MERCER ISLAND

CITY OF MERCER ISLAN

PERMIT SUBMITTAL

SEPTEMBER 16, 2021

REVISIONS

NO. DESCRIPTION D

PLAN CHECK 1 04.14.22 PLAN CHECK 2 10.17.22

DRAWN BY: BJB
CHECKED BY: CJS

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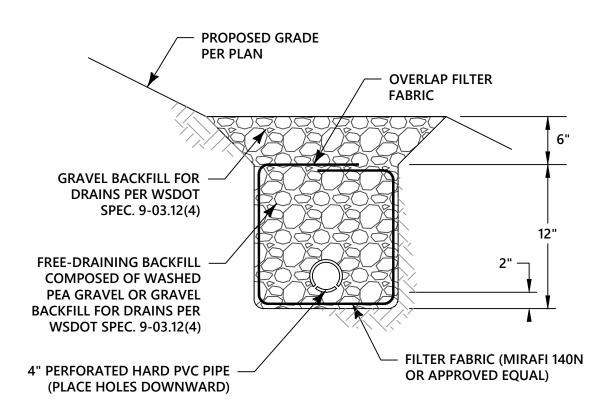
CIVIL SITE PLAN

SCALE: AS NOTED

- 1. STORM PIPE SHALL BE PVC CONFORMING TO ASTM D-3034 SDR 35 (4" 15") OR ASTM F679 (18"-27"). BEDDING AND BACKFILL SHALL BE AS SHOWN IN THE STANDARD DETAILS.
- 2. THE FOOTING DRAINAGE SYSTEM AND THE ROOF DOWNSPOUT SYSTEM SHALL NOT BE INTERCONNECTED AND SHALL SEPARATELY CONVEY COLLECTED FLOWS TO THE CONVEYANCE SYSTEM OR TO ON-SITE STORMWATER
- 3. PRIOR TO FINAL INSPECTION AND ACCEPTANCE OF STORM DRAINAGE WORK, PIPES AND STORM DRAIN STRUCTURES SHALL BE CLEANED AND FLUSHED. ANY OBSTRUCTIONS TO FLOW WITHIN THE STORM DRAIN SYSTEM, (SUCH AS RUBBLE, MORTAR AND WEDGED DEBRIS), SHALL BE REMOVED AT THE NEAREST STRUCTURE. WASH WATER OF ANY SORT SHALL NOT BE DISCHARGED TO THE STORM DRAIN SYSTEM OR SURFACE WATERS.
- 4. ENDS OF EACH STORM DRAIN STUB AT THE PROPERTY LINE SHALL BE CAPPED AND LOCATED WITH AN 8' LONG 2" X 4" BOARD, EMBEDDED TO THE STUB CAP AND EXTENDING AT LEAST 3 FEET ABOVE GRADE, AND MARKED PERMANENTLY "STORM". A COPPER 12 GA. LOCATE WIRE FIRMLY ATTACHED. THE STUB DEPTH SHALL BE INDICATED ON THE MARKER.
- ALL GRATES IN ROADWAYS SHALL BE DUCTILE IRON, BOLT-LOCKING, VANED GRATES PER THE STANDARD DETAILS. STRUCTURES IN TRAFFIC LANES OUTSIDE OF THE CURB LINE WHICH DO NOT COLLECT RUNOFF SHALL BE FITTED WITH ROUND, BOLT-LOCKING FRAMES AND SOLID COVERS. OFF-STREET STRUCTURES WHICH DO NOT COLLECT
- RUNOFF SHALL BE FITTED WITH BOLT-LOCKING SOLID COVERS. 6. VEGETATION/LANDSCAPING IN THE DETENTION POND, BIORETENTION FACILITY, VEGETATED ROOF AND/OR DRAINAGE SWALE(S) ARE AN INTEGRAL PART OF THE RUNOFF TREATMENT SYSTEM FOR THE PROJECT. SUCH
- DRAINAGE FACILITIES WILL NOT BE ACCEPTED UNTIL PLANTINGS ARE ESTABLISHED 7. ALL NEW MANHOLES SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES AND SHALL CONFORM TO THE
- STANDARD DETAILS. ALL NEW CATCH BASINS SHALL CONFORM TO THE STANDARD DETAILS. 8. STORM STUB STATIONS ARE REFERENCED FROM NEAREST DOWNSTREAM MANHOLE/ CATCH BASIN
- ALL TESTING AND CONNECTIONS TO EXISTING MAINS SHALL BE DONE IN THE PRESENCE OF THE CITY'S INSPECTOR. 10. ALL PUBLIC STORM DRAINS SHALL BE AIR TESTED AND HAVE A VIDEO INSPECTION PERFORMED PRIOR TO ACCEPTANCE (SEE #17 BELOW). STORM MAIN CONSTRUCTED WITH FLEXIBLE PIPE SHALL BE DEFLECTION TESTED
- WITH A MANDREL PRIOR TO ACCEPTANCE. 11. STORM STUBS SHALL BE TESTED FOR ACCEPTANCE AT THE SAME TIME THE STORM MAIN IS TESTED.
- 12. ALL MANHOLES/ CATCH BASINS IN UNPAVED AREAS SHALL INCLUDE A CONCRETE SEAL AROUND ADJUSTMENT RINGS PER STANDARD DETAILS.
- 13. ALL STORM MAIN EXTENSIONS WITHIN THE PUBLIC RIGHT-OF-WAY OR IN EASEMENTS MUST BE "STAKED" BY A SURVEYOR LICENSED IN WASHINGTON STATE FOR "LINE AND GRADE" AND CUT SHEETS PROVIDED TO THE CITY'S INSPECTOR, PRIOR TO STARTING CONSTRUCTION.
- 14. STORM DRAINAGE MAINLINES, STUBS AND FITTINGS SHALL BE CONSTRUCTED USING THE SAME PIPE MATERIAL AND MANUFACTURER. CONNECTIONS BETWEEN STUBS AND THE MAINLINE WILL BE MADE WITH A TEE FITTING. TEE FITTING SHALL BE FROM SAME MANUFACTURER AS PIPE. CUT-IN CONNECTIONS ARE ONLY ALLOWED WHEN CONNECTING A NEW STUB TO AN EXISTING MAINLINE.
- 15. MANHOLES, CATCH BASINS AND VAULTS ARE CONSIDERED TO BE PERMIT-REQUIRED CONFINED SPACES. ENTRY INTO THESE SPACES SHALL BE IN ACCORDANCE WITH CHAPTER 296-809 WAC.
- 16. PLACEMENT OF SURFACE APPURTENANCES (MH LIDS, VALVE LIDS, ETC.) IN TIRE TRACKS OF TRAFFIC LANES SHALL BE AVOIDED WHENEVER POSSIBLE.
- 17. THE CONTRACTOR SHALL PERFORM A VIDEO INSPECTION AND PROVIDE A DIGITAL COPY OF THE VIDEO INSPECTION FOR THE CITY'S REVIEW. THE VIDEO SHALL PROVIDE A MINIMUM OF 480 X 640 RESOLUTION AND COVER THE ENTIRE LENGTH OF THE APPLICABLE PIPE. THE CAMERA SHALL BE MOVED THROUGH THE PIPE AT A UNIFORM RATE (≤ 30 FT/MIN), STOPPING WHEN NECESSARY TO ENSURE PROPER DOCUMENTATION OF THE PIPE CONDITION. THE VIDEO SHALL BE TAKEN AFTER INSTALLATION AND CLEANING TO INSURE THAT NO DEFECTS EXIST. THE PROJECT WILL NOT BE ACCEPTED UNTIL ALL DEFECTS HAVE BEEN REPAIRED.
- 18. NOT USED.
- 19. ALL CONCRETE STRUCTURES (VAULTS, CATCH BASINS, MANHOLES, OIL/WATER SEPARATORS, ETC.) SHALL BE VACUUM TESTED.
- 20. MANHOLES, CATCH BASINS AND INLETS IN EASEMENTS SHALL BE CONSTRUCTED TO PROVIDE A STABLE, LEVEL GRADE FOR A MINIMUM RADIUS OF 2.5 FEET AROUND THE CENTER OF THE ACCESS OPENING TO ACCOMMODATE CONFINED SPACE ENTRY EQUIPMENT.
- 21. TOPS OF MANHOLES/ CATCH BASINS WITHIN PUBLIC RIGHT-OF-WAY SHALL NOT BE ADJUSTED TO FINAL GRADE UNTIL AFTER PAVING.
- 22. CONTRACTOR SHALL ADJUST ALL MANHOLE/ CATCH BASIN RIMS TO BE FLUSH WITH FINAL FINISHED GRADES, UNLESS OTHERWISE SHOWN.
- 23. DURING CONSTRUCTION, CONTRACTOR SHALL INSTALL, AT ALL CONNECTIONS TO EXISTING DOWNSTREAM MANHOLES/CATCH BASINS, SCREENS OR PLUGS TO PREVENT FOREIGN MATERIALS FROM ENTERING EXISTING STORM DRAINAGE SYSTEM. SCREENS OR PLUGS SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF THE CONSTRUCTION AND SHALL BE REMOVED ALONG WITH COLLECTED DEBRIS AT THE TIME OF FINAL INSPECTION AND IN THE PRESENCE OF THE CITY'S INSPECTOR.
- 24. NOT USED.
- 25. MINIMUM COVER OVER STORM DRAINAGE PIPE SHALL BE 2 FEET, UNLESS OTHERWISE SHOWN. 26. REDIRECT SHEET FLOW, BLOCK DRAIN INLETS AND/OR CURB OPENINGS IN PAVEMENT AND INSTALL FLOW
- DIVERSION MEASURES TO PREVENT CONSTRUCTION SILT LADEN RUNOFF AND DEBRIS FROM ENTERING EXCAVATIONS AND FINISH SURFACES FOR BIORETENTION FACILITIES AND PERMEABLE PAVEMENTS.
- 27. WHERE AMENDED SOILS, BIORETENTION FACILITIES, AND PERMEABLE PAVEMENTS ARE INSTALLED, THESE AREAS SHALL BE PROTECTED AT ALL TIMES FROM BEING OVER-COMPACTED.

UNDERGROUND UTILITY NOTE:

UNDERGROUND UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY SERVICES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPES WHERE CROSSING INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES, TO DETERMINE ACTUAL LOCATIONS, SIZE AND MATERIAL. THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE-CALL AT 8-1-1 (WASHINGTON811.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION.



FRENCH DRAIN

GENERAL DRAINAGE NOTES

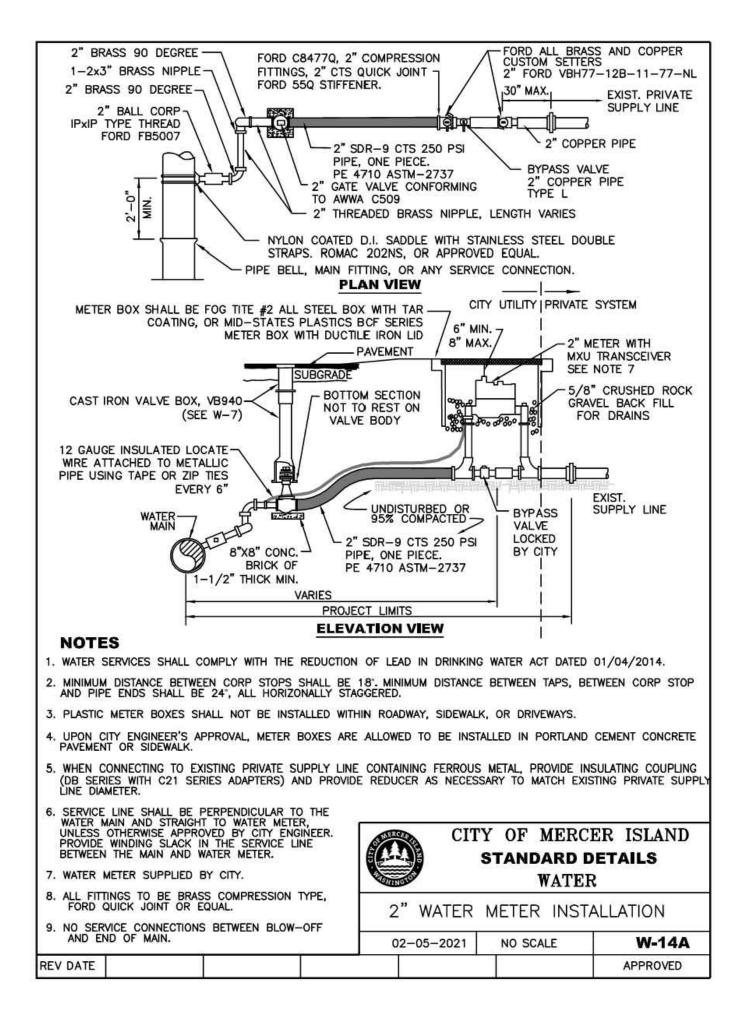
- 1. ALL STORM LINES AND RETENTION/DETENTION AREAS SHALL BE STAKED FOR GRADE AND ALIGNMENT BY AN ENGINEERING OR SURVEYING FIRM CAPABLE OF PERFORMING SUCH WORK, AND CURRENTLY LICENSED IN THE STATE OF WASHINGTON TO DO SO.
- 2. ALL PIPE APPURTENANCES SHALL BE LAID ON A PROPERLY PREPARED FOUNDATION IN ACCORDANCE WITH WSDOT 7-02.3(1) UNLESS OTHERWISE NOTED IN THE PLANS, DETAILS OR PROJECT SPECIFICATIONS. THIS SHALL INCLUDE LEVELING AND COMPACTING THE TRENCH BOTTOM, THE TOP OF THE FOUNDATION MATERIAL, AND ANY REQUIRED PIPE BEDDING TO A UNIFORM GRADE SO THAT THE ENTIRE PIPE IS SUPPORTED BY A UNIFORMLY DENSE UNYIELDING BASE.
- 3. ALL DRAINAGE STRUCTURES, SUCH AS CATCH BASINS AND MANHOLES, NOT LOCATED WITHIN A TRAVELED ROADWAY OR SIDEWALK, MUST HAVE SOLID LOCKING LIDS. ALL DRAINAGE STRUCTURES ASSOCIATED WITH A PERMANENT RETENTION/DETENTION FACILITY MUST HAVE SOLID LOCKING LIDS.
- 4. SOLID LOCKING LIDS MUST BE USED FOR ALL CATCH BASINS NOT LOCATED WITHIN A GUTTER FLOWLINE AND VANED GRATE STYLE COVERS MUST BE USED WITHIN THE GUTTER FLOWLINE.
- 5. ALL CONVEYANCE PIPE 6-INCHES OR GREATER IN DIAMETER MUST BE ASTM D3034 SDR 35 PVC UNLESS OTHERWISE NOTED IN THE PLANS, DETAILS OR PROJECT SPECIFICATIONS.

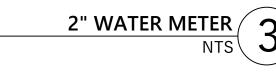
RESTORATION NOTES:

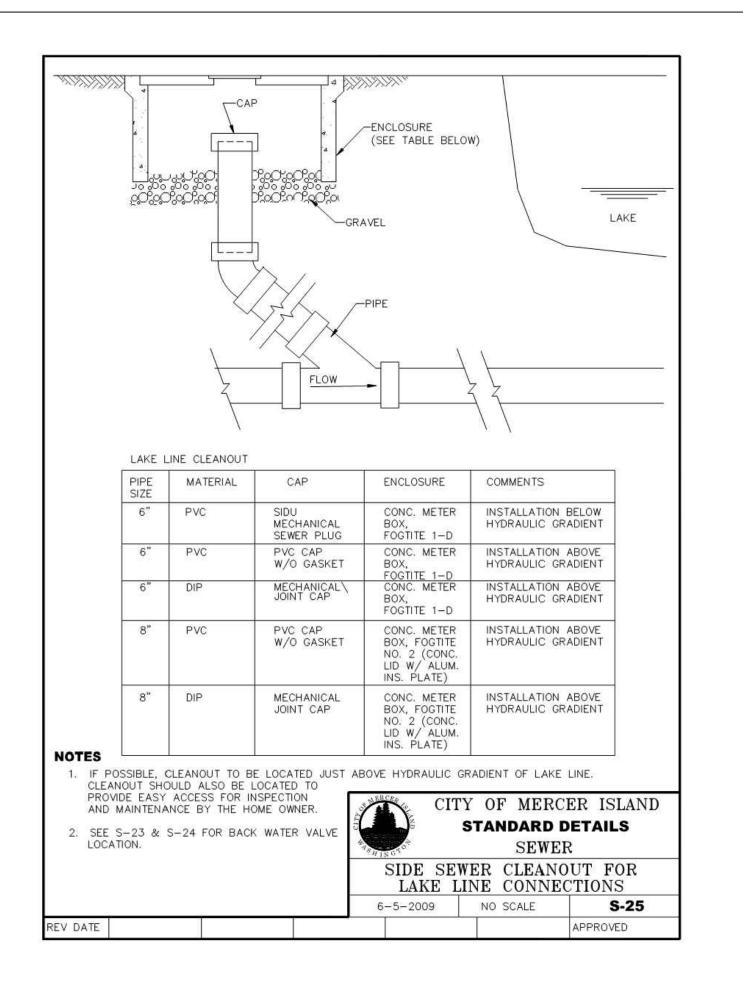
- 1. SURFACE RESTORATION OF EXISTING ASPHALT PAVEMENT SHALL BE AS REQUIRED BY THE
- RIGHT-OF-WAY USE PERMIT.
- 2. THE CONTRACTOR SHALL RESTORE THE RIGHT-OF-WAY AND EXISTING PUBLIC STORM DRAINAGE EASEMENT(S) AFTER CONSTRUCTION TO A CONDITION EQUAL OR BETTER THAN CONDITION PRIOR TO ENTRY. THE CONTRACTOR SHALL FURNISH A RELEASED FROM ALL AFFECTED PROPERTY OWNERS AFTER RESTORATION HAS BEEN COMPLETED.

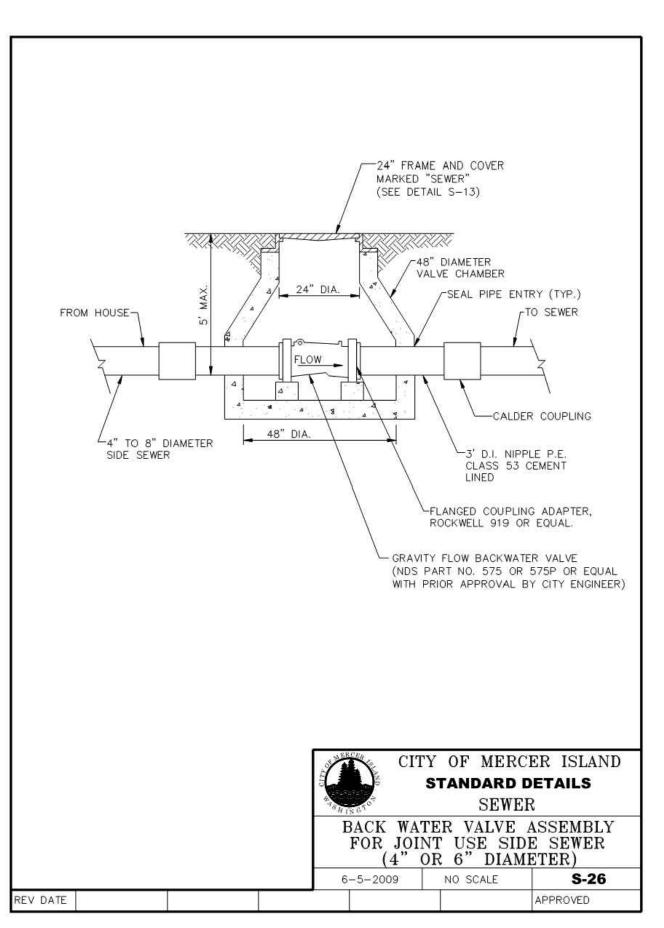
UTILITY NOTES:

- THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN HEREON HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE EXCAVATOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN, AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HERE ON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN. IMMEDIATELY NOTIFY THE RESPONSIBLE PROFESSIONAL ENGINEER IF A CONFLICT EXISTS.
- 2. CALL 1-800-424-5555, OR 8-1-1, 72 HOURS BEFORE CONSTRUCTION FOR UTILITY LOCATES.
- 3. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF FIVE FEET (5') HORIZONTAL SEPARATION BETWEEN ALL WATER AND STORM DRAINAGE LINES. ANY CONFLICT SHALL BE REPORTED TO THE UTILITY AND THE RESPONSIBLE PROFESSIONAL ENGINEER PRIOR TO CONSTRUCTION.
- 4. AVOID CROSSING WATER OR SEWER MAINS AT HIGHLY ACUTE ANGLES. THE SMALLEST ANGLE MEASURE BETWEEN UTILITIES SHOULD BE 45 DEGREES.
- 5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT NO CONFLICTS EXIST BETWEEN STORM DRAINAGE FACILITIES AND PROPOSED OR EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- 6. AT POINTS WHERE EXISTING THRUST BLOCKING IS FOUND, MINIMUM CLEARANCE BETWEEN
- CONCRETE BLOCKING AND OTHER BURIED UTILITIES OR STRUCTURES SHALL BE 5 FEET. 7. WHERE A NEW UTILITY LINE CROSSES BELOW AN EXISTING AC MAIN, THE AC PIPE SHALL BE REPLACED WITH DI PIPE TO 3 FEET PAST EACH SIDE OF THE TRENCH AS SHOWN ON STANDARD DETAIL W-8. ALTERNATIVELY, APPROVED IN WRITING BY THE UTILITY, THE TRENCH MAY BE BACKFILLED WITH CONTROLLED DENSITY FILL (CDF, AKA FLOWABLE FILL) FROM BOTTOM OF TRENCH TO BOTTOM OF AC MAIN



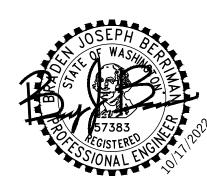






SEWER BACKWATER VALVE /

LATITUDE 48, P.S. CONTACT: BRADY BERRIMAN PHONE NUMBER: 206.556.1615



CITY OF MERCER ISLAND PERMIT SUBMITTAL

SEPTEMBER 16, 2021

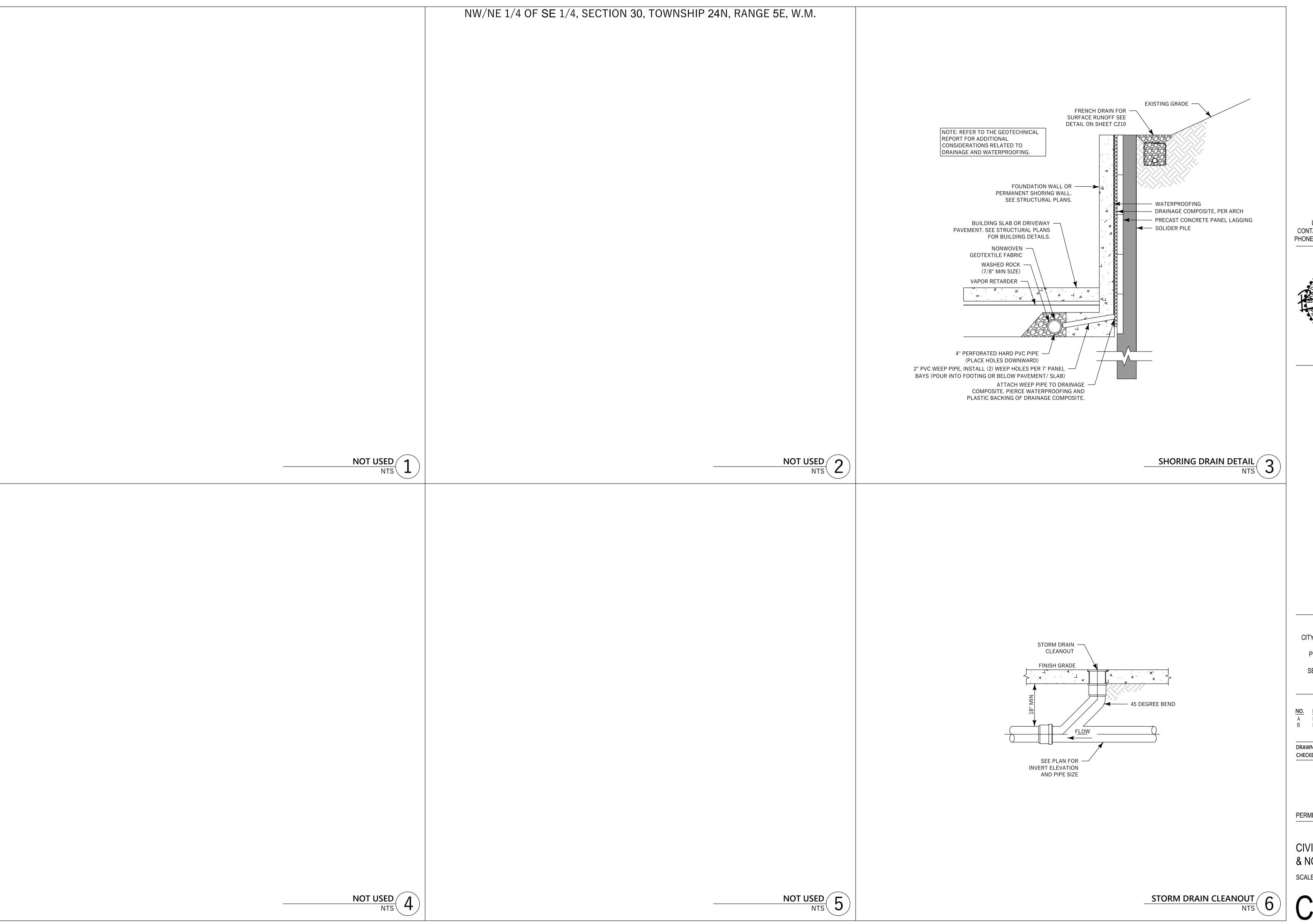
REVISIONS DESCRIPTION PLAN CHECK 1 04.14.22 B PLAN CHECK 2 10.17.22

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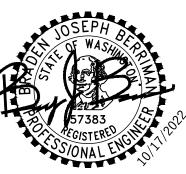
CIVIL SITE DETAILS & NOTES

SCALE: AS NOTED



LATITUDE 48

LATITUDE 48, P.S. CONTACT: BRADY BERRIMAN PHONE NUMBER: 206.556.1615



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HUBER RESIDENCI

CITY OF MERCER ISLAND

PERMIT SUBMITTAL

SEPTEMBER 16, 2021

REVISIONS

NO. DESCRIPTION DATE

A PLAN CHECK 1 04.14.22

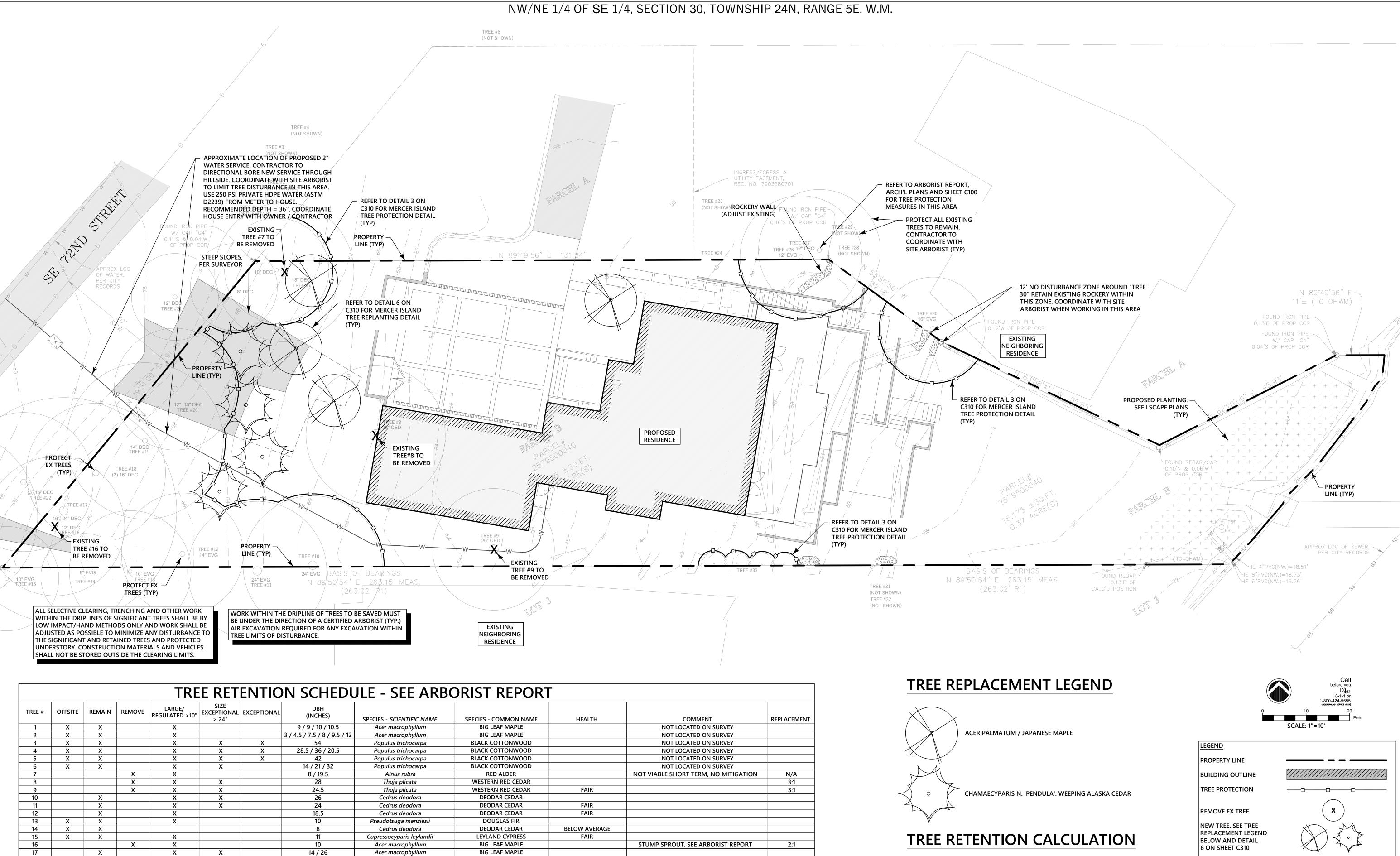
B PLAN CHECK 2 10.17.22

DRAWN BY: BJB
CHECKED BY: CJS

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CIVIL SITE DETAILS & NOTES

SCALE: AS NOTED



GREW OVER OR OUT OF AN OLD STUMP

MIXED EVERGREEN HEDGE, SEE ARBORIST REPORT

NOT LOCATED ON SURVEY

NOT LOCATED ON SURVEY

DEAD - NOT LOCATED ON SURVEY

NOT LOCATED ON SURVEY

NOT LOCATED ON SURVEY

NOT LOCATED ON SURVEY

HEDGE - NOT LOCATED ON SURVEY

11 ONSITE TREES

30% RETENTION REQUIRED = (3.3) 4 TREES

PROPOSED RETAINAGE = 7 TREES (>4 REQUIRED)

TREE REPLACEMENT

(SEE "REPLACEMENT" IN TABLE TO THE LEFT)

TOTAL TREES REQUIRED TO BE REPLACED = 8 TREES

PROPOSED REMOVAL = 4 TREES

PROPOSED REPLACED = 8 TREES

18

20

23

Χ

Χ

Χ

Χ

Χ

Χ

Χ

Χ

18 / 16.5

17.5

10 / 21.5

12.5

12 / 12 / 13

11.5

14

10.5

Acer macrophyllum

Acer macrophyllum

Acer macrophyllum

Alnus rubra

Acer macrophyllum

Acer macrophyllum

Malus domestica

Pinus sylvestris

Pinus sylvestris

Pinus sylvestris

Pinus sylvestris

Pinus thunbergii

Betula pendula

Betula pendula
Cupressocyparis leylandii

huja occidentalis (variety unknown)

Cupressocyparis leylandii

BIG LEAF MAPLE

BIG LEAF MAPLE

BIG LEAF MAPLE

RED ALDER

BIG LEAF MAPLE

BIG LEAF MAPLE

ARBORVITAE

LEYLAND CYPRUS

APPLE TREE

SCOTS PINE

SCOTS PINE

SCOTS PINE

SCOTS PINE

BLACK PINE

EUROPEAN BIRCH

EUROPEAN BIRCH

LEYLAND CYPRESS

WEAK

BELOW AVERAGE

FAIR

BELOW AVERAGE

DECENT HEALTH OVERALI

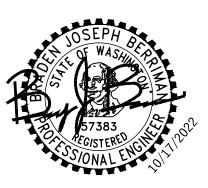
FAIR

BELOW AVERAGE

BELOW AVERAGE

ATITUDE \$\frac{1}{4}8

LATITUDE 48, P.S.
CONTACT: BRADY BERRIMAN
PHONE NUMBER: 206.556.1615



JBER RESIDENCE

CITY OF MERCER ISLAND
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SEPTEMBER 16, 2021

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NO. DESCRIPTION DATE

A PLAN CHECK 1 04.14.22

B PLAN CHECK 2 10.17.22

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PER MICC 19.02.020(F)(3)(d), THE PROJECT SHALL REMOVE

JAPANESE KNOTWOOD (POLYGONUM CUSPIDATUM) AND

ESTABLISHED PURSUANT TO SUBSECTION (F)(3)(a) OF THIS

ON THE KING COUNTY NOXIOUS WEED LIST, AS AMENDED.

OF LANDSLIDE OR EROSION.

PROVIDED, THAT REMOVAL SHALL NOT BE REQUIRED IF THE

REGULATED CLASS A, REGULATED CLASS B, AND REGULATED

CLASS C WEEDS IDENTIFIED ON THE KING COUNTY NOXIOUS

SECTION. NEW LANDSCAPING ASSOCIATED WITH NEW SINGLE FAMILY HOME SHALL NOT INCORPORATE ANY WEEDS IDENTIFIED

WEED LIST, AS AMENDED, FROM REQUIRED LANDSCAPING AREAS

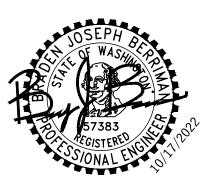
REMOVAL WILL RESULT IN INCREASED SLOPE INSTABILITY OR RISK

TREE PLAN

SCALE: AS NOTED

PERMIT SUBMITTAL

LATITUDE 48, P.S.
CONTACT: BRADY BERRIMAN
PHONE NUMBER: 206.556.1615



HUBER RESIDENCE

CITY OF MERCER ISLAND

PERMIT SUBMITTAL

SEPTEMBER 16, 2021

REVISIONS	3
DESCRIPTION	DATE
PLAN CHECK 1	04.14.22
PLAN CHECK 2	10.17.22

DRAWN BY: BJB
CHECKED BY: CJS

PERMIT SUBMITTAL

TREE DETAILS & NOTES

SCALE: AS NOTED

General Shoring Notes

THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS

1. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2018 EDITION, AND THE LATEST EDITION OF PTI DC-35.1, "RECOMMENDATIONS FOR PRESTRESSED ROCK AND SOIL ANCHORS".

CODE REQUIREMENTS

REFERENCE DOCUMENTS

2. TOPOGRAPHIC AND BOUNDARY SURVEY BY:

TERRANE
10801 MAIN ST, STE 102
BELLEVUE, WA 98004
JOB NUMBER: 13043

3. REPORT ON GEOTECHNICAL INVESTIGATION BY:

PANGEO INC.
ON SEPT. 7, 2021
3213 EASTALVE AVE E, STE B
SEATTLE, WA 98102
FILE NO. 21-004

GENERAL REQUIREMENTS

- 4. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATIONS, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ENGINEER AND ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK.
- 5. SHOULD ANY DISCREPANCIES BE FOUND IN THE PROJECT DOCUMENTS, THE CONTRACTOR WILL BE DEEMED TO HAVE INCLUDED IN THE PRICE THE MOST EXPENSIVE WAY OF COMPLETING THE WORK, UNLESS PRIOR TO SUBMISSION OF THE PRICE THE CONTRACTOR ASKS FOR A DECISION FROM THE ENGINEER AND ARCHITECT AS TO WHICH SHALL GOVERN.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE CONTRACTOR'S WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES TO THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.
- 7. CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF EXISTING STRUCTURES IN THE FIELD AND SHALL NOTIFY THE ENGINEER OF ALL FIELD CHANGES PRIOR TO FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBER.
- 8. CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.
- 9. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. ALL TYPICAL AND NOTES SHOWN ON DRAWINGS SHALL APPLY, UNLESS NOTED OTHERWISE. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS BUT SHALL STILL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS. WHERE TYPICAL DETAILS ARE NOTED ON THE PLANS, THE SPECIFIED TYPICAL DETAIL SHALL BE USED. WHERE NO TYPICAL DETAIL IS NOTED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHOOSE THE APPROPRIATE TYPICAL DETAIL FROM THOSE PROVIDED. THE CONTRACTOR SHALL SUBMIT ALL PROPOSED ALTERNATE TYPICAL DETAILS TO THOSE PROVIDED WITH RELATED CALCULATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO SHOP DRAWING PRODUCTION AND FIELD USE.
- 10. THE FOLLOWING ITEMS SHALL BE SUBMITTED IN WRITING FOR APPROVAL TO THE ENGINEER, ARCHITECT AND OWNER PRIOR TO THE COMMENCEMENT OF ANY WORK OR THE FABRICATION OR INSTALLATION OF ANY STRUCTURAL ITEM. THE CONTRACTOR SHALL RETAIN ALL RESPONSIBILITY FOR MEANS AND METHODS OF CONSTRUCTION.

SHORING MONITORING PROGRAM: SEE MONITORING SECTION.
SHORING SEQUENCING PROGRAM
CONCRETE AND GROUT MIX DESIGN

11. SHOP DRAWINGS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS.

STRUCTURAL STEEL
MISCELLANEOUS METALS
TENDONS
ANCHORS
REINFORCING STEEL
GROUTS AND CONCRETES.

APPROVED SETS OF ALL SHOP DRAWINGS SHALL ALSO BE SUBMITTED TO THE BUILDING DEPARTMENT.

12. SHOP DRAWING REVIEW: DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD, THEREFORE MUST BE VERIFIED BY THE CONTRACTOR. CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY ENGINEER OF RECORD. CONTRACTOR SHALL REVIEW DRAWINGS FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND OPERATIONS OF CONSTRUCTION, AND ALL SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO. SUBMITTALS SHALL INCLUDE A REPRODUCIBLE AND ONE COPY; REPRODUCIBLE WILL BE MARKED AND RETURNED WITHIN TWO WEEKS OF RECEIPT WITH A NOTATION INDICATING THAT THE SUBMITTAL HAS BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE SUBMITTED ITEMS SHALL NOT BE INSTALLED UNTIL THEY HAVE BEEN APPROVED BY THE DESIGN TEAM.

SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS. THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT, BY INDICATING WHICH MATERIAL IS INTENDED TO BE FURNISHED AND INSTALLED AND BY DETAILING THE INTENDED FABRICATION AND INSTALLATION METHODS.

13. UTILITY LOCATION: THE UTILITIES INFORMATION SHOWN ON THE PLANS MAY NOT BE COMPLETE. THE SHORING CONTRACTOR SHALL DETERMINE THE HORIZONTAL AND VERTICAL LOCATION OF ALL ADJACENT UNDERGROUND UTILITIES PRIOR TO DRIVING PILES, DRILLING PILE HOLES, TIEBACK ANCHORS, OR CUTTING OR DIGGING IN STREETS OR ALLEYS. THIS INCLUDES CALLING UTILITY LOCATE AT 1-800-424-5555 AND THEN POTHOLING ALL UTILITIES PRIOR TO CONSTRUCTION TO CONFIRM DEPTHS AND LOCATIONS AND TO VERIFY THAT THERE ARE NO CONFLICTS WITH THE PILE AND TIEBACK CROSSING ELEVATIONS. PILES AND TIEBACKS, INCLUDING CONCRETE CASING SHALL MAINTAIN A MINIMUM OF 12" CLEARANCE TO ANY EXISTING UTILITIES TO REMAIN. CONTRACTOR SHALL NOTIFY THE ENGINEER OF CONFLICTS. CONFLICTS SHALL BE RESOLVED IN WRITING PRIOR TO PROCEEDING WITH CONSTRUCTION.

QUALITY ASSURANCE

14. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND SECTIONS 110 AND 1704 OF THE INTERNATIONAL BUILDING CODE BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE ARCHITECT, AND RETAINED BY THE BUILDING OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL INSPECTIONS. THE ARCHITECT, STRUCTURAL ENGINEER, AND BUILDING DEPARTMENT SHALL BE FURNISHED WITH COPIES OF ALL INSPECTION AND TEST RESULTS WITHIN TWO WEEKS OF COMPLETION OF EACH PHASE OF WORK. SPECIAL INSPECTION OF THE FOLLOWING TYPES OF CONSTRUCTION IS REQUIRED

STRUCTURAL STEEL FABRICATION AND ERECTION PER TABLE 1705. 2
PRECAST CONCRETE ERECTION PER TABLE 1705. 3
CAST-IN-PLACE DEEP FOUNDATION PER TABLE 1705. 8

PERIODIC INSPECTION ALLOWS INSPECTION AT INTERVALS NECESSARY TO CONFIRM THAT WORK REQUIRING SPECIAL INSPECTION IS IN COMPLIANCE WITH REQUIREMENTS. CONTINUOUS SPECIAL INSPECTION REQUIRES THAT THE INSPECTOR BE ONSITE AT ALL TIMES THAT WORK REQUIRING SPECIAL INSPECTION IS PERFORMED.

15. INSPECTORS SHALL BRING DEFICIENCIES TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE INSPECTOR SHALL BRING THE UNCORRECTED DEFICIENCY TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE STRUCTURAL ENGINEER IMMEDIATELY AND PRIOR TO COMPLETION OF THAT PHASE OF WORK.

16. SOILS INSPECTION: INSPECTION BY THE SOILS ENGINEER SHALL BE PERFORMED FOR PILE PLACEMENT AND TIEBACK PLACING AND STRESSING. ALL PREPARED SOIL BEARING SURFACES SHALL BE INSPECTED BY THE SOILS ENGINEER PRIOR TO PLACEMENT OF PILES. SOIL COMPACTION SHALL BE SUPERVISED BY AN APPROVED TESTING LAB. THE GEOTECHNICAL ENGINEER SHALL ALSO ADVISE ON WATER CONTROL AND SLAB ON GRADE CONSTRUCTION.

17. WET WEATHER INSPECTION: A SITE VISIT FROM THE GEOTECHNICAL SPECIAL INSPECTOR SHALL OCCUR DURING EACH DAY OF ACTIVE GRADING AND IN THE EVENT OF SIGNIFICANT RAINFALL WHICH MIGHT COMPROMISE STABILIZATION MEASURES BETWEEN NOVEMBER 1 AND MARCH 31. THE DETERMINATION OF WHAT CONSTITUTES SIGNIFICANT RAINFALL IS SUBJECT TO THE DISCRETION OF THE GEOTECHNICAL SPECIAL INSPECTOR. HOWEVER, AS A MINIMUM STANDARD, THE GEOTECHNICAL SPECIAL INSPECTOR IS REQUIRED TO CONDUCT A SITE VISIT IF MORE THAN ONE HALF INCH OF PRECIPITATION OCCURS ON ANY GIVEN DAY. ANY RECOMMENDATIONS REQUIRED TO MAINTAIN STABILITY OF EXCAVATIONS AND PROPER FUNCTIONING OF THE SEDIMENT/EROSION CONTROL SYSTEM PROVIDED BY THE GEOTECHNICAL SPECIAL INSPECTOR AND DPD PERSONNEL SHALL BE IMPLEMENTED IMMEDIATELY. THE GEOTECHNICAL SPECIAL INSPECTOR SHALL PROVIDE COPIES OF FIELD REPORTS TO DPD SITE DEVELOPMENT SERVICES SECTION NO LATER THAN 48 HOURS AFTER EACH INSPECTION. THE FIELD REPORTS MAY BE FAXED TO (206)233-7902. THE GEOTECHNICAL SPECIAL INSPECTOR SHALL PROVIDE WRITTEN NOTICE THAT THE SITE HAS BEEN STABILIZED FOLLOWING COMPLETION OF GRADING.

SHORING MONITORING

- 18. A SYSTEMATIC PROGRAM OF MONITORING SHALL BE CONDUCTED DURING THE PROJECT EXECUTION TO DETERMINE THE EFFECT OF CONSTRUCTION ON ADJACENT FACILITIES AND STRUCTURES IN ORDER TO PROTECT THEM FROM DAMAGE. REFER TO REPORT OF GEOTECHNICAL INVESTIGATION FOR RECOMMENDATIONS. FIELD DATA AND MEASUREMENTS ARE TO BE SUBMITTED TO THE STRUCTURAL AND GEOTECHNICAL ENGINEER FOR REVIEW.
- 19. MONITORING SHALL BE PERFORMED BY A PROFESSIONAL LAND SURVEYOR (PLS) LICENSED IN THE STATE OF WASHINGTON.
- 20. UNLESS OTHERWISE REQUIRED BY THE GEOTECHNICAL ENGINEER, THE MONITORING PROGRAM SHALL INCLUDE A VIDEO OR PHOTOGRAPHIC SURVEY PRIOR TO THE BEGINNING OF THE SHORING INSTALLATION TO DOCUMENT THE CURRENT CONDITIONS OF THE SURROUNDING FEATURES. THE SIZE AND LOCATION OF ANY EXISTING CRACKS IN ADJACENT SLABS, PAVEMENTS OR BUILDINGS SHALL BE MEASURED AND DOCUMENTED. CONTROL POINTS SHALL BE ESTABLISHED AT A DISTANCE WELL AWAY FROM THE WALLS AND SLOPES, AND DEFLECTIONS FROM THE REFERENCE POINTS SHALL BE MEASURED THROUGHOUT CONSTRUCTION BY OPTICAL SURVEY. A MINIMUM OF 3 MONITORING POINTS SHALL BE ESTABLISHED ON NEARBY ADJACENT BUILDINGS. MINIMUM SURVEY FREQUENCY SHALL BE ONCE PER WEEK.
- 21. SOLDIER PILE MONITORING PROGRAM: FOLLOWING INSTALLATION OF THE SOLDIER PILES, MONITORING POINTS SHALL BE ESTABLISHED ON THE TOP OF THE PILES PRIOR TO PROCEEDING WITH THE EXCAVATION. ONE MONITORING POINT SHALL BE ESTABLISHED FOR EVERY FOUR PILES. THE MONITORING POINTS SHALL BE READ DAILY DURING EXCAVATION OPERATIONS AND TWICE WEEKLY ONCE THE EXCAVATION IS COMPLETED. THE INITIAL READINGS FOR THIS MONITORING SHALL BE TAKEN BEFORE STARTING ANY DEMOLITION OR EXCAVATION ON THE SITE. NOTIFY THE GEOTECHNICAL AND STRUCTURAL ENGINEERS, SHORING DESIGNER, AND THE BUILDING DEPARTMENT (DPD) IF .5" OF MOVEMENT OCCURS BETWEEN TWO CONSECUTIVE READINGS. THE ENGINEERS AND DESIGNERS SHALL DETERMINE THE CAUSE OF DISPLACEMENT AND DEVELOP REMEDIAL MEASURES IF WARRANTED. PLEASE NOTE THAT A MAXIMUM OF 1" HORIZONTAL DISPLACEMENT IS REQUIRED ANYWHERE ON SHORING WALL SURFACES THROUGHOUT THE SHORING WALL SERVICE LIFETIME. CONSTRUCTION SHALL BE SUSPENDED IMMEDIATELY AND REMEDIAL PROCEDURES APPLIED AS LONG AS A DISPLACEMENT READING EXCEEDS 1" IF THE TOTAL MEASURED LATERAL DEFLECTION OF THE PILES EXCEEDS 1", REMEDIAL MEASURES MAY BE REQUIRED.
- 22. EACH SET OF MONITORING DATA MUST BE PROVIDED TO THE GEOTECHNICAL ENGINEER FOR REVIEW. IT MAY BE NECESSARY TO INSTALL ADDITIONAL MONITORING POINTS IF WARRANTED BY THE DATA. RECOMMENDATIONS WILL BE PROVIDED BY THE GEOTECHNICAL ENGINEER DURING CONSTRUCTION IF ADDITIONAL MONITORING POINTS BECOME NECESSARY.

- 23. SURVEY FREQUENCY MAY BE DECREASED AFTER THE SHORING SYSTEM HAS BEEN INSTALLED AND EXCAVATION IS COMPLETE IF THE DATA INDICATES LITTLE OR NO ADDITIONAL MOVEMENT. CHANGE IN THE SURVEY FREQUENCY SHALL BE APPROVED IN WRITING BY THE GEOTECHNICAL ENGINEER AND THE BUILDING DEPARTMENT. SURVEYING MUST CONTINUE UNTIL THE PERMANENT STRUCTURE (INCLUDING FLOOR SLABS AS BRACES) IS COMPLETE TO FINAL AND STREET GRADES.
- 24. SUBMIT SURVEY DATA, INCLUDING BASELINE READINGS AND EVALUATION OF SHORING PERFORMANCE BY THE GEOTECHNICAL ENGINEER AT LEAST ON A WEEKLY BASIS TO THE BUILDING DEPARTMENT.

GEOTECHNICAL INFORMATION AND CRITERIA

- 25. INSTALLATION OF SHORING, SUBGRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION AND FILLING REQUIREMENTS SHALL CONFORM WITH THE RECOMMENDATIONS CONTAINED IN THE SOILS REPORT AND/OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER. THE SUBSURFACE CHARACTERIZATIONS USED TO DESIGN THE SHORING ARE CONTAINED IN THE SOILS REPORT AS REFERENCED ABOVE.
- 26. EXCAVATIONS FOR FOUNDATIONS SHALL BE PER PLAN DOWN TO UNDISTURBED NATIVE MATERIAL PER THE GEOTECHNICAL ENGINEERING RECOMMENDATIONS. OVER EXCAVATED AREAS SHALL BE BACKFILLED WITH LEAN CONCRETE OR PER GEOTECHNICAL RECOMMENDATIONS AT THE CONTRACTOR'S EXPENSE. EXCAVATION SLOPES SHALL BE SAFE AND SHALL NOT BE GREATER THAN THE LIMITS SPECIFIED BY LOCAL, STATE, AND NATIONAL SAFETY REGULATIONS. CONTRACTOR SHALL PROTECT CUT SLOPES AS NECESSARY IF CONSTRUCTION OCCURS DURING WET WEATHER, AND SHALL CONTROL AND MANAGE RUNOFF TO MINIMIZE EFFECTS ON CONSTRUCTION.
- 27. DESIGN SOIL CAPACITIES ARE DETERMINED BY THE GEOTECHNICAL ENGINEER. THE SOIL PRESSURES INDICATED ON THE SOIL PRESSURE DIAGRAM WERE USED FOR DESIGN, IN ADDITION TO THE DEAD AND LIVE LOADS. SEE REPORT OF GEOTECHNICAL INVESTIGATION FOR MORE COMPLETE INFORMATION, INCLUDING RECOMMENDATIONS FOR SHORING IN GENERAL, SHORING MONITORING, EXCAVATION, LAGGING, AND DRAINAGE.
- 28. SOIL DESIGN PARAMETERS ARE AS FOLLOWS:

ACTIVE EARTH PRESSURE (LEVEL BACKFILL) ACTIVE EARTH PRESSURE (1: 1 BACKFILL) SEISMIC SURCHARGE PRESSURE (UNIFORM LOAD) PASSIVE EARTH PRESSURE (INCLUDES FS=1.5) ALLOWABLE BEARING PRESSURE ALLOWABLE SKIN FRICTION	35 PCF 45 PCF 6H PSF 200 PCF 20 KSF 1. 0 KSF
--	---

29. SHORING DURATION: BOTH TEMPORARY AND PERMANENT SHORING IS USED. REFER TO THE PLANS FOR PILE TYPE. THE CONSTRUCTION OF THE PERMANENT STRUCTURE SHALL COMMENCE IMMEDIATELY AFTER THE SHORING IS INSTALLED AND THE BULK EXCAVATION IS COMPLETE.

CONCRETE

30. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH IBC SECTION 1905, 1906, AND ACI 301. STRENGTHS AT 28 DAYS AND MIX CRITERIA SHALL BE AS FOLLOWS:

f'c Minimum Cement Max. Water Per Use
(psi) Per Cubic Yard 94 LB Cement

----- 1-1/2 sacks ----- pile & tieback
lean concrete
3,000 9 sack pumpable mix ----- pile & tieback
structural grout

- 31. THE MINIMUM AMOUNTS OF CEMENT MAY BE CHANGED IF A CONCRETE PERFORMANCE MIX IS SUBMITTED TO THE STRUCTURAL ENGINEER AND THE BUILDING DEPARTMENT FOR APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE. THE PERFORMANCE MIX SHALL INCLUDE THE AMOUNTS OF CEMENT, FINE AND COARSE AGGREGATE, WATER AND ADMIXTURES AS WELL AS THE WATER CEMENT RATIO, SLUMP, CONCRETE YIELD AND SUBSTANTIATING STRENGTH DATA IN ACCORDANCE WITH ACI 301. THE USE OF A PERFORMANCE MIX REQUIRES BATCH PLANT INSPECTION, THE COST OF WHICH SHALL BE PAID BY THE GENERAL CONTRACTOR. REVIEW OF MIX SUBMITTALS BY THE ENGINEER OF RECORD INDICATES ONLY THAT INFORMATION PRESENTED CONFORMS GENERALLY WITH CONTRACT DOCUMENTS. CONTRACTOR OR SUPPLIER MAINTAINS FULL RESPONSIBILITY FOR SPECIFIED PERFORMANCE.
- 32. CONCRETE STRENGTHS SHALL BE VERIFIED BY STANDARD CYLINDER TESTS, UNLESS APPROVED OTHERWISE. REQUIRED ULTIMATE COMPRESSIVE STRENGTH OF STRUCTURAL GROUT SHALL BE REACHED BY 5 DAYS FOR TIEBACKS AND 28 DAYS FOR PILES AND FOUNDATIONS.
- 33. REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 60, FY = 60,000 PSI.

STEEL

- 34. STEEL SPECIFICATIONS: DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC MANUAL, AISC 360 AND SECTION 2205 OF THE BUILDING CODE.
- 35. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

TYPE OF MEMBER

ASTM SPECIFICATION

FY

WIDE FLANGE SHAPES
OTHER SHAPES, PLATES, AND RODS
CONNECTION BOLTS

A36
A325N BEARING TYPE
(SNUG TIGHT)
HEADED SHEAR STUDS

A108

36. ALL WELDING SHALL BE IN CONFORMANCE WITH AISC AND AWS STANDARDS AND SHALL BE PERFORMED BY WABO CERTIFIED WELDERS USING E70XX ELECTRODES. ONLY PREQUALIFIED WELDS (AS DEFINED BY AWS) SHALL BE USED. ALL COMPLETE JOINT PENETRATION GROOVE WELDS SHALL BE MADE WITH A FILLER MATERIAL THAT HAS A MINIMUM CVN TOUGHNESS OF 20 FT-LBS AT 20 DEGREES F AND 40 FT-LBS AT 70 DEGREES F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

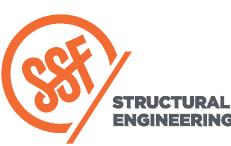
- 37. UNLESS OTHERWISE REQUIRED BY THE MANUFACTURER, STEEL PROVIDED FOR TEMPORARY SHORING REQUIRES NO CORROSION PROTECTION.
- 38. STEEL PROVIDED FOR PERMANENT SHORING SHALL BE GALVANIZED OR PAINTED BLACK FOR CORROSION RESISTANCE.

PILE LAGGING AND CONSTRUCTION

- 39. DEMOLITION: SHORING AND SOIL EXCAVATION SHALL BE DONE SIMULTANEOUSLY.
- 40. DIMENSIONS AND LOCATION OF EXISTING STRUCTURES SHALL BE VERIFIED PRIOR TO FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBER. NOTIFY ENGINEER ABOUT ANY DISCREPANCIES PRIOR TO FABRICATION.
- 41. PILE AND ANCHOR HOLES SHALL BE DRILLED WITHOUT LOSS OF GROUND AND WITHOUT ENDANGERING PREVIOUSLY INSTALLED PILES AND ANCHORS. THIS MAY INVOLVE CASING THE HOLES OR OTHER METHODS OF PROTECTION FROM CAVING. REFER TO REPORT OF GEOTECHNICAL INVESTIGATION FOR RECOMMENDED HOLE DIGGING PROCEDURE.
- 42. AUGERCAST PILE PLACEMENT: ALTERNATE PILES SHALL BE PLACED AND COMPLETED SO THAT AT LEAST 24 HOURS IS ALLOWED FOR THE CONCRETE TO SET PRIOR TO DRILLING ADJACENT PILES.

43. STEEL PILE PLACEMENT TOLERANCES:

- 1" INSIDE PERPENDICULAR TO SHORING WALL
- 1" OUTSIDE PERPENDICULAR TO SHORING WALL 3" LATERALLY.
- 1" IN ANY DIRECTION
- 1 111 7111 211 20 11011
- 44. ALL SHORING PILES IN CITY RIGHT-OF-WAY SHALL BE REMOVED A MINIMUM OF 4 FEET BELOW FINISHED GRADE, UPON COMPLETION OF THE PROJECT.
- 45. LAGGING: CONCRETE LAGGING SHALL BE INSTALLED IN ALL AREAS. VOIDS BETWEEN LAGGING AND SOIL SHALL BE BACKFILLED WITH PEA GRAVEL. DRAINAGE BEHIND THE WALL MUST BE MAINTAINED. IT IS CONTRACTOR'S RESPONSIBILITY TO LIMIT THE AMOUNT OF EXPOSED SOIL WITHOUT LAGGING TO AVOID LOSS OF SOIL. MAXIMUM HEIGHT OF 4 FEET IS RECOMMENDED. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO AVOID GROUND LOSS DURING EXCAVATION.



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DMR
NHD
BDM
DJS

REVISIO	ONS:	
	Permit Corrections	Apr. 19, 2022
2	Permit Corrections 2	Nov. 17, 2022
3	Permit Corrections 3	Jan. 13, 2023

PROJECT TITLE:

Huber Residence
9611 SE 72nd Street

Mercer Island, WA 98040

ARCHITECT:
Brandt Design Group
66 Bell Street, Unit 1

Seattle, WA 98121 PH 206.239.0850 brandtdesigninc.com

PERMIT

General

Shoring Notes

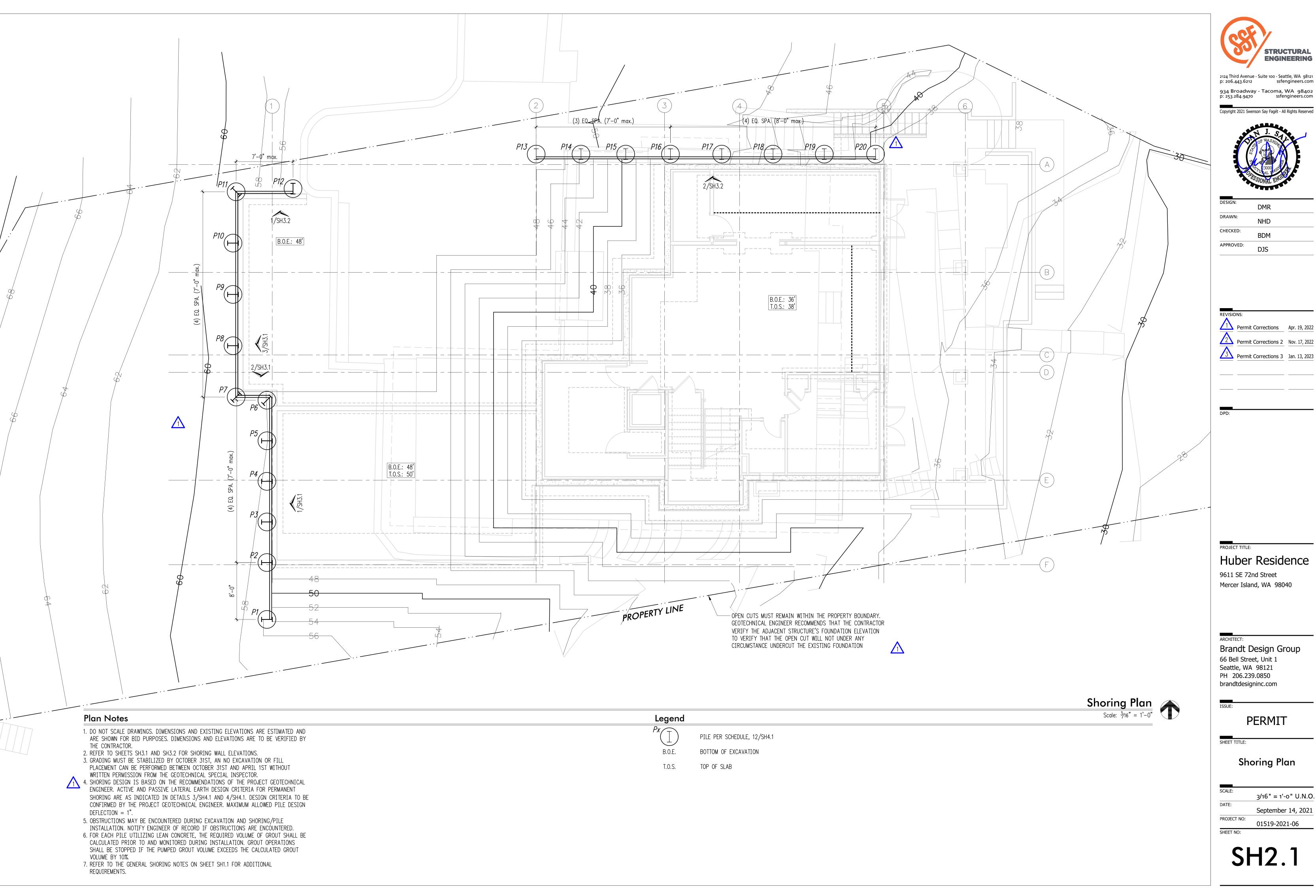
SCALE:

DATE:

September 14, 2021

PROJECT NO: 01519-2021-06
SHEET NO:

SH1 1



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DESIGN:	DMR	
DRAWN:	NHD	
CHECKED:	BDM	
APPROVED:	DJS	

Permit Corrections Apr. 19, 2022 Permit Corrections 2 Nov. 17, 2022

Huber Residence

9611 SE 72nd Street Mercer Island, WA 98040

Brandt Design Group

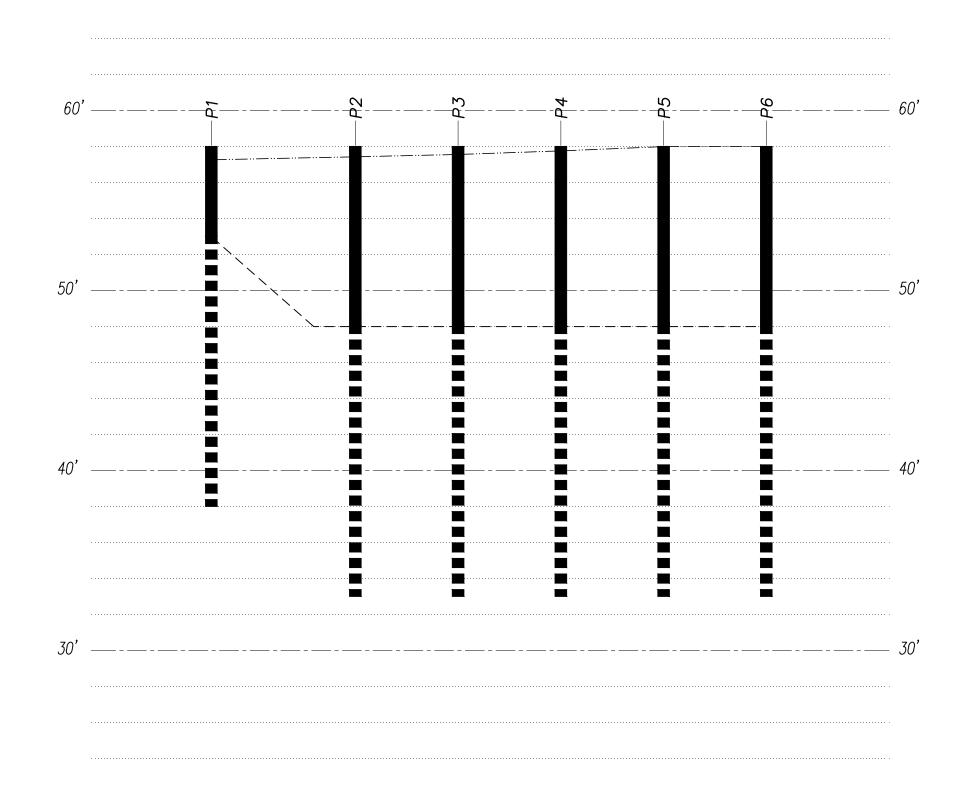
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Shoring Plan

3/16" = 1'-0" U.N.O.

September 14, 2021 01519-2021-06



Legend

APPROXIMATE TOP OF GRADE

BOTTOM OF EXCAVATION

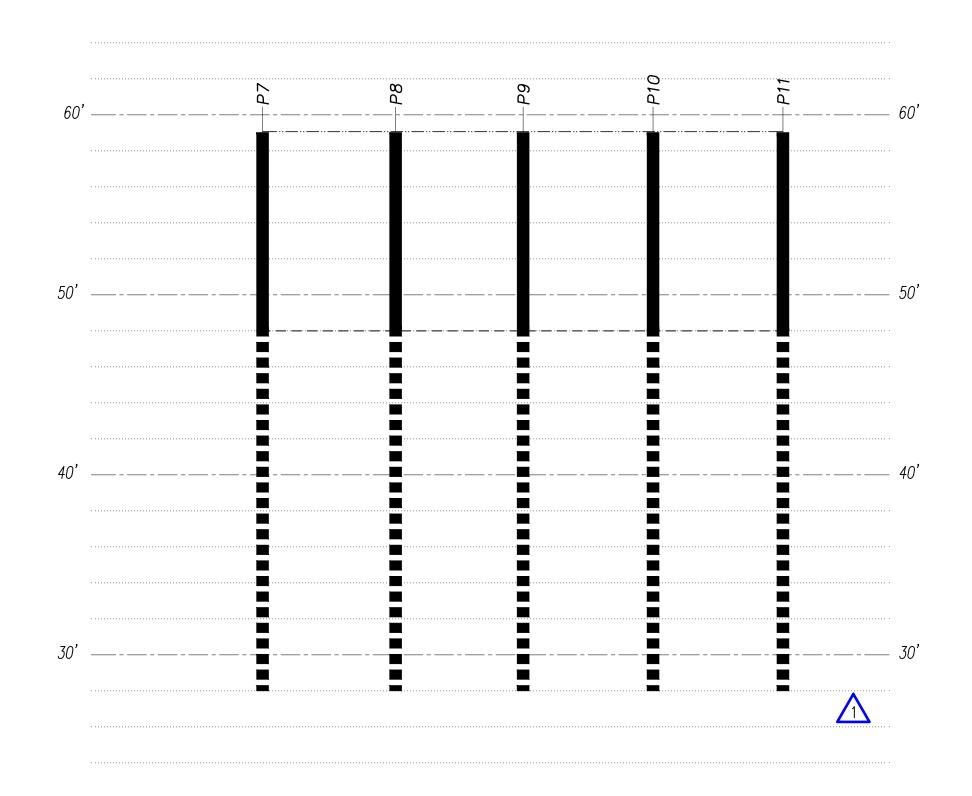
BOTTOM OF EXCAVATION

CONCRETE LAGGING

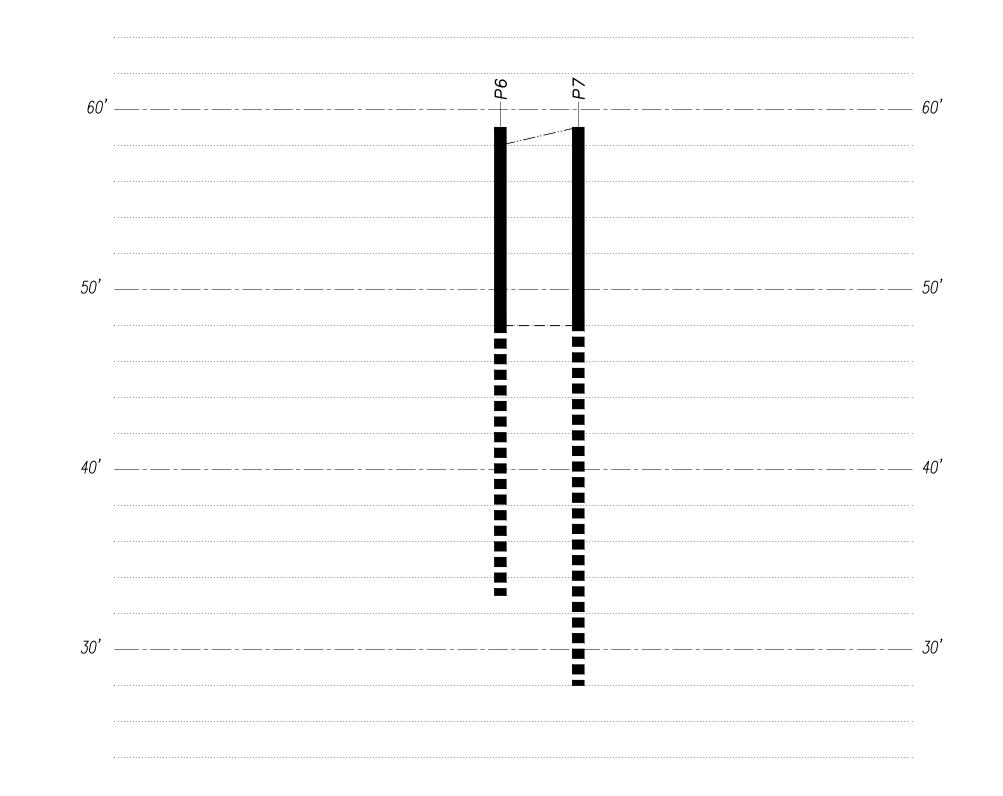
West Shoring Elevation

LOOKING WEST Scale: 3/16" = 1'-0"

CONCRETE LAGGING



Legend		West Shoring Elevation
	APPROXIMATE TOP OF GRADE	LOOKING WEST Scale: 3/16" = 1'-0"
	BOTTOM OF EXCAVATION	
—−Px	STEEL PILE PER PLAN/SCHEDULE	
	CONCRETE LAGGING	



egend		South Shoring Elevation
	APPROXIMATE TOP OF GRADE	LOOKING SOUTH Scale: $\frac{3}{16}$ " = 1'-0"
	BOTTOM OF EXCAVATION	
——Px	STEEL PILE PER PLAN/SCHEDULE	
	CONCRETE LAGGING	



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APPROVED:	DIS

Permit Corrections Apr. 19, 2022

Permit Corrections 2 Nov. 17, 2022

Permit Corrections 3 Jan. 13, 2023

PROJECT TITLE:
Huber Residence

9611 SE 72nd Street Mercer Island, WA 98040

ARCHITECT:

Brandt Design Group

66 Bell Street, Unit 1

Seattle, WA 98121
PH 206.239.0850
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EET TITLE:

Shoring Elevations

3/16" = 1'-0" U.N.O.

DATE:

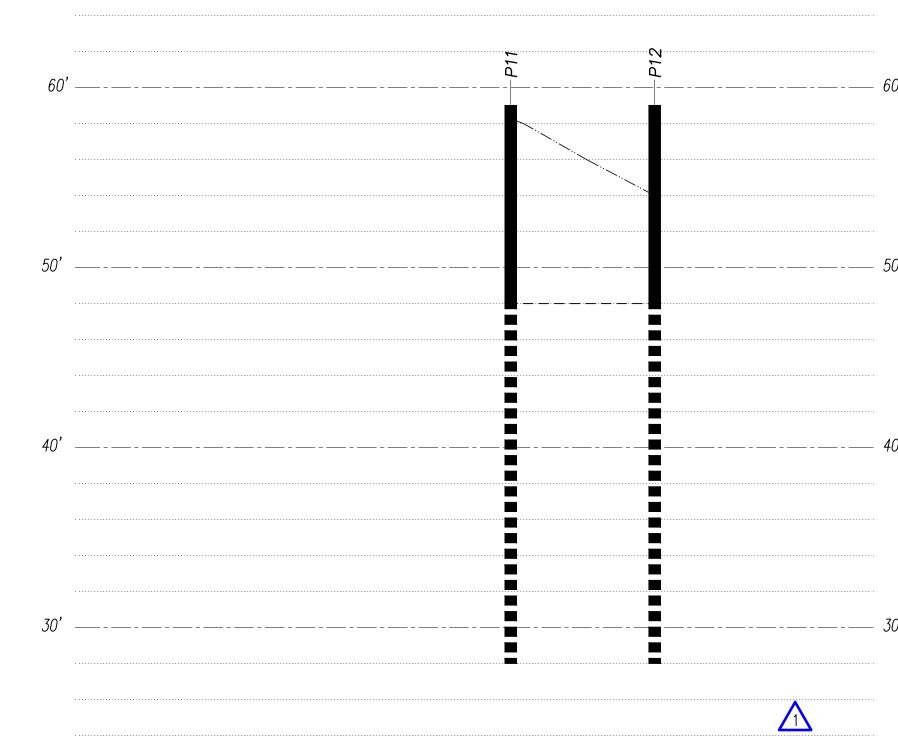
September 14, 2021

PROJECT NO:

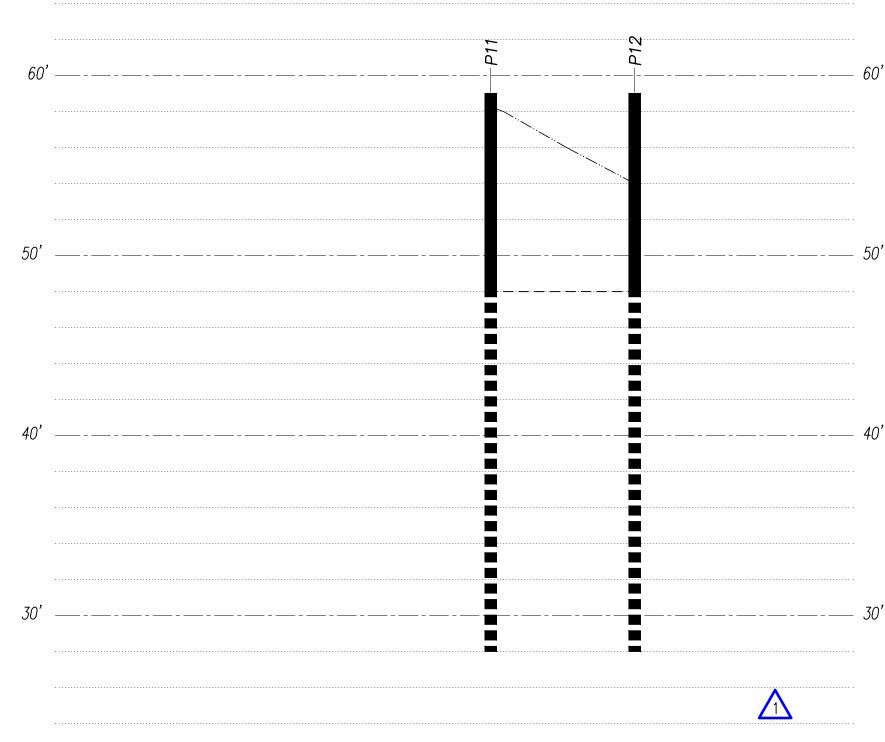
01519-2021-06

SHEET NO:

SH3.1



Legend APPROXIMATE TOP OF GRADE BOTTOM OF EXCAVATION _____ STEEL PILE PER PLAN/SCHEDULE CONCRETE LAGGING



North Shoring Elevation

30' -----

Legend		North Shoring Elevation			
	APPROXIMATE TOP OF GRADE	LOOKING NORTH Scale: ³ /16" = 1'-0"			
	BOTTOM OF EXCAVATION				
Px	STEEL PILE PER PLAN/SCHEDULE				

CONCRETE LAGGING

Huber Residence

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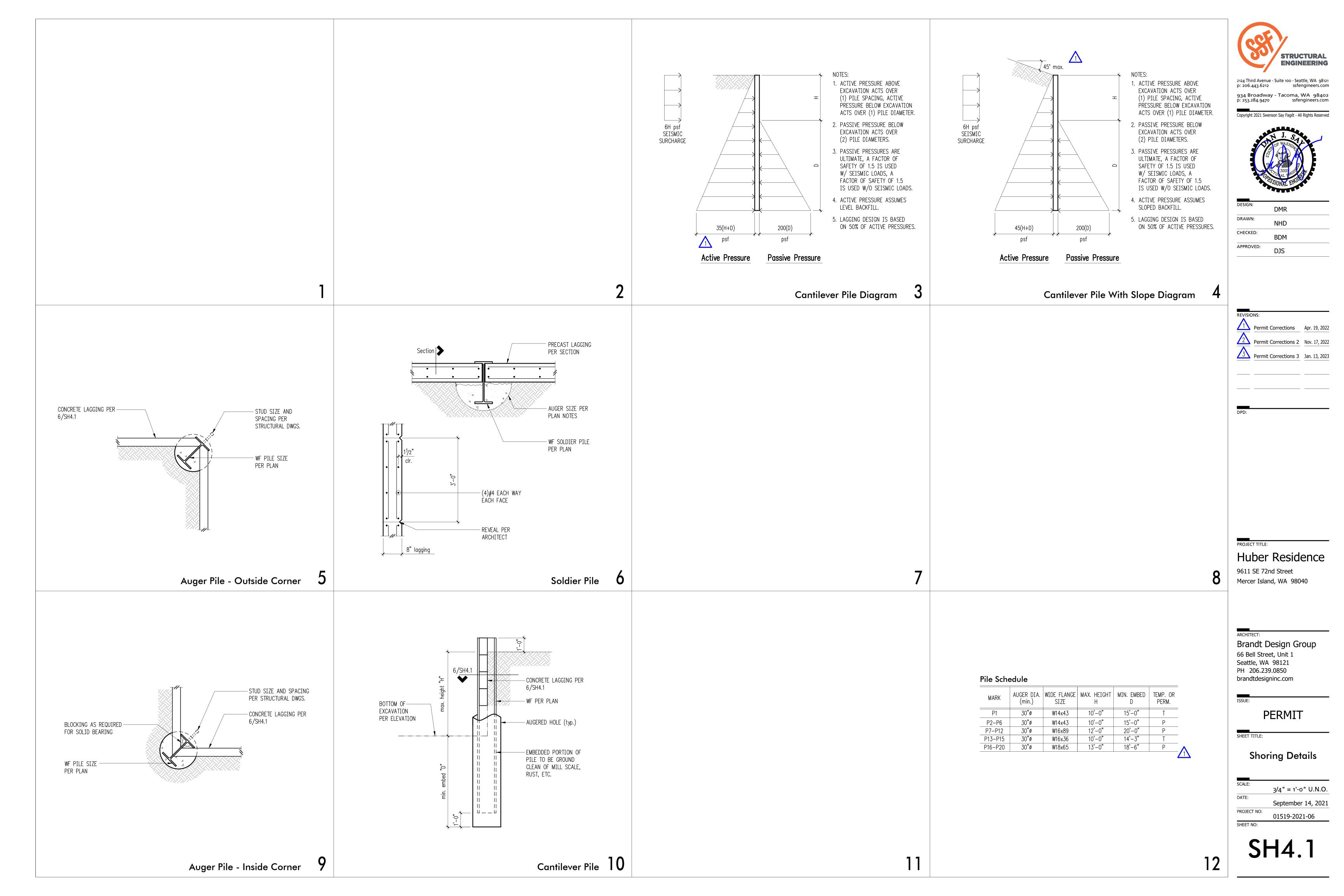
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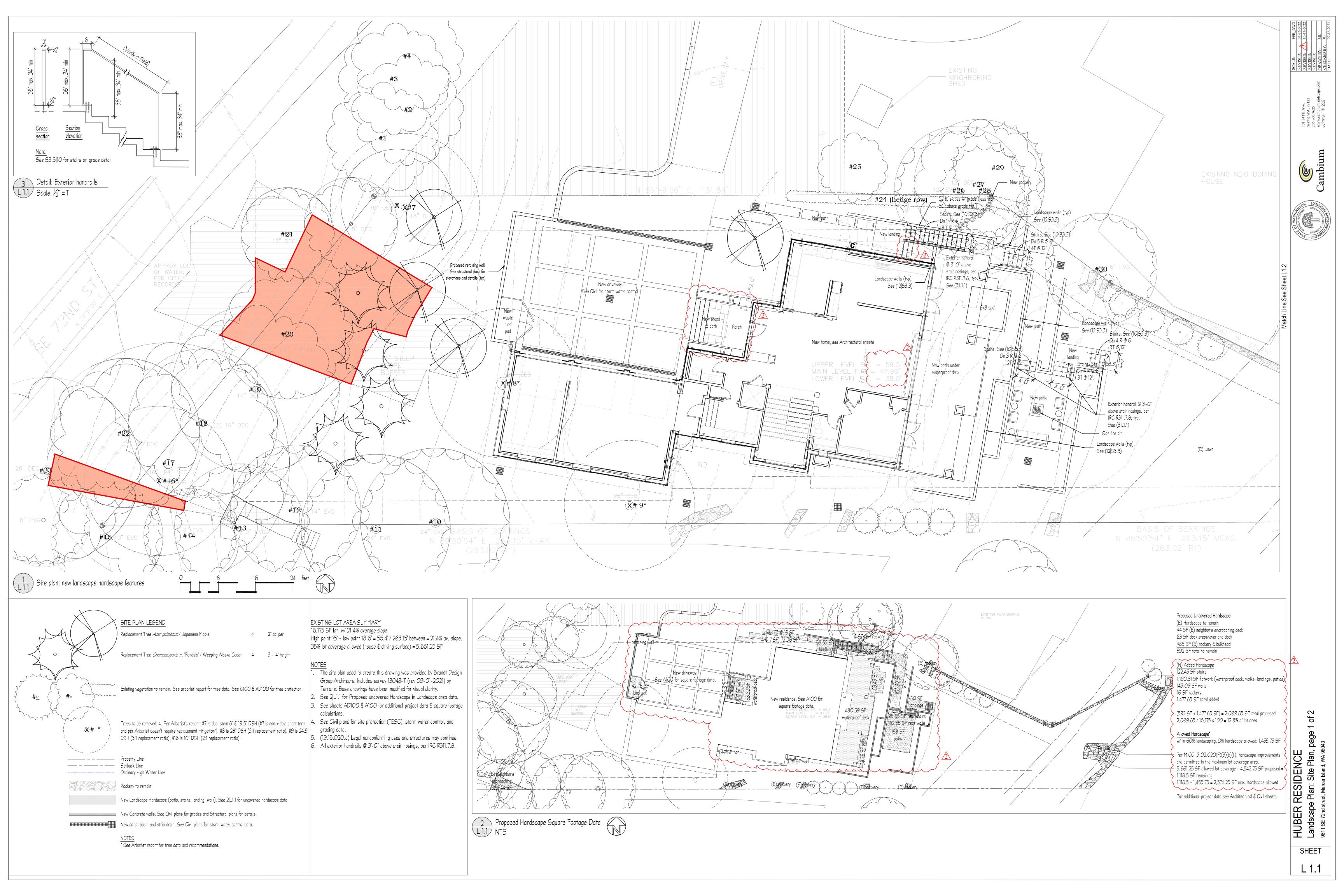
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Shoring **Elevations**

3/16" = 1'-0" U.N.O. September 14, 2021 PROJECT NO: 01519-2021-06









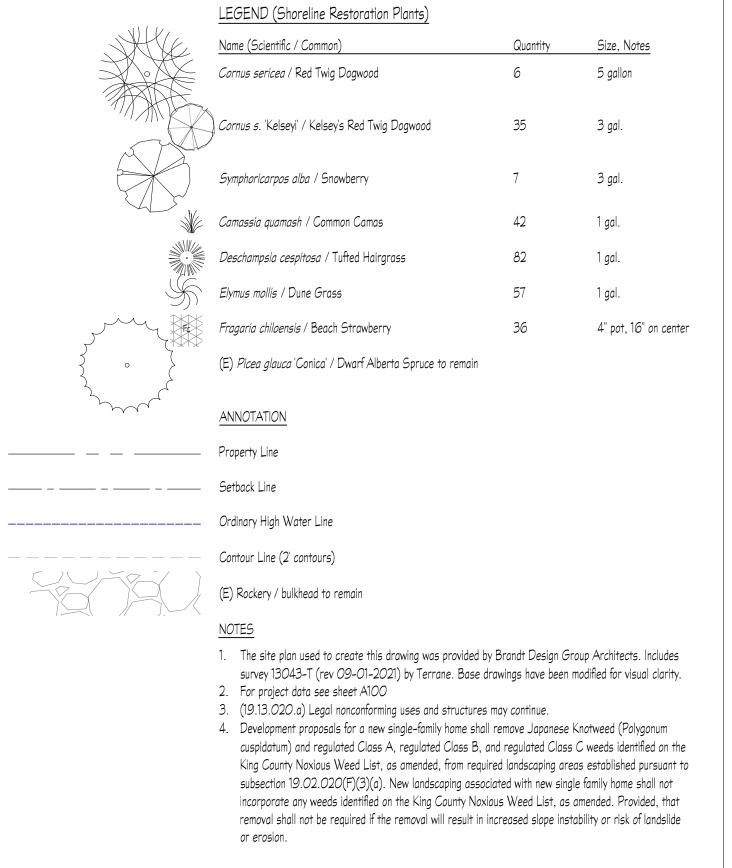




HUBER RESIDENCE
Landscape Plan: Site Plan, p
9611 SE 72nd street, Mercer Island, WA 9804

SHEET





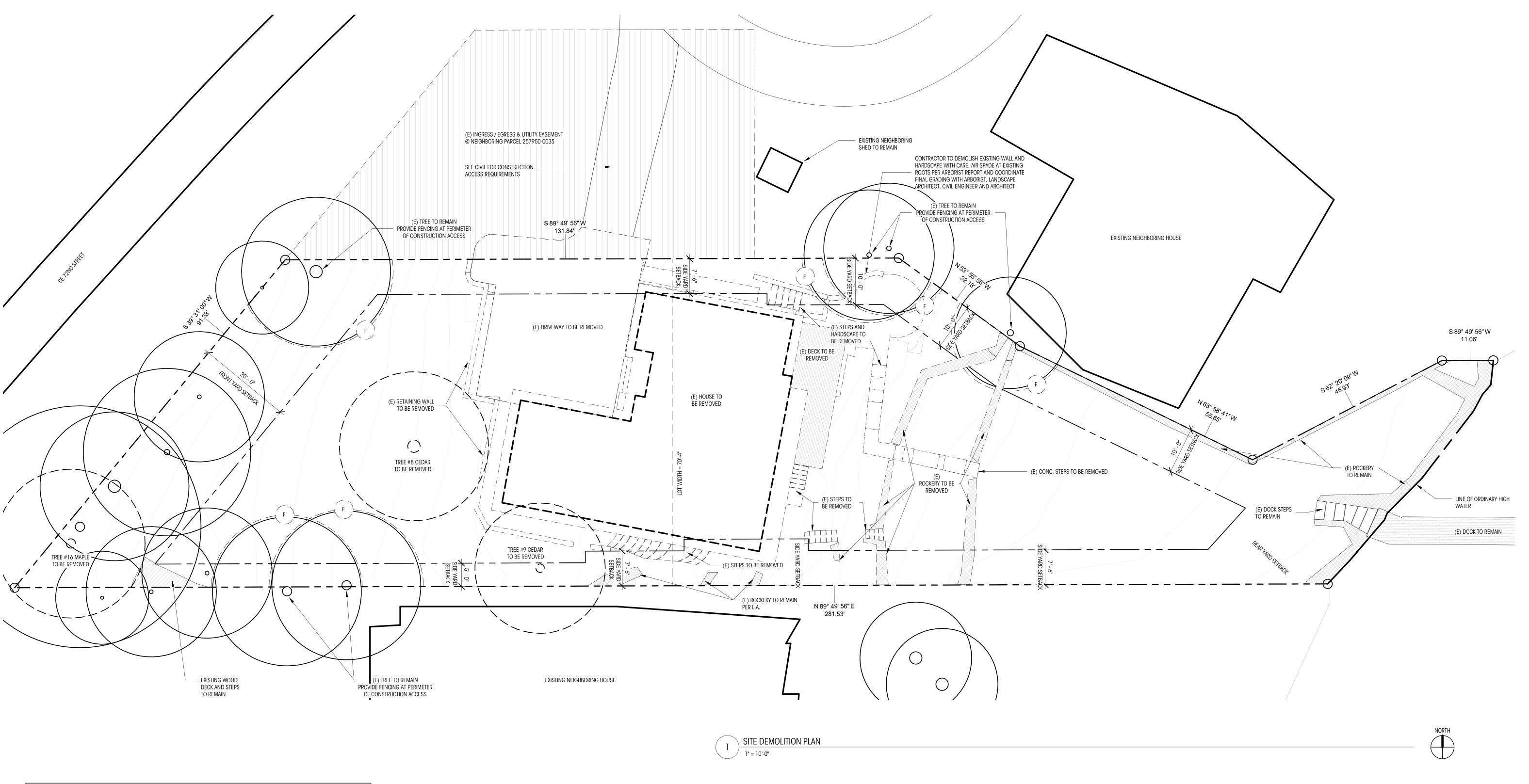
SQUARE FOOTAGE DATA 19.13.050(K)(4)(i) 5' planting zone = 307 SF total 25% native vegetation coverage = 78 SF required 119 SF proposed*

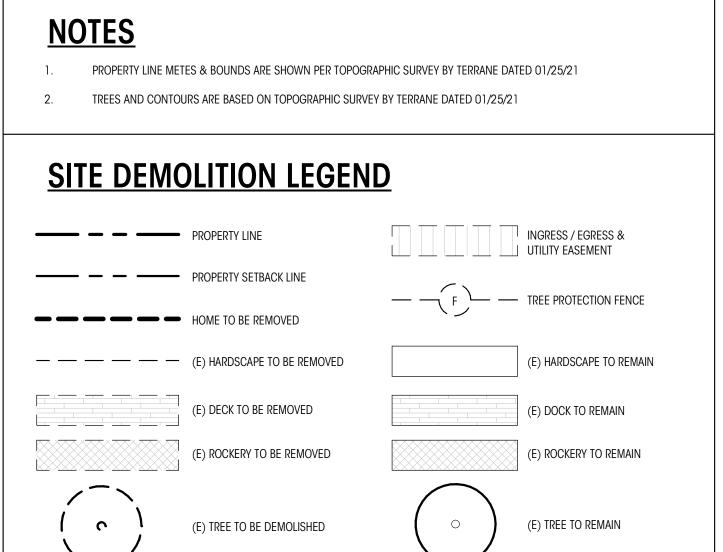
20' planting zone = 1,209 SF total 75% native vegetation coverage = 902 SF required 926 SF proposed*

875 SF lawn to be removed

Assumes some grasses will be planted within the back edge of the bulkhead rockery

Negition's touse	O Property Line
	LINE OF ORDINARY HICH WATER EL=18.6'
(E) Lawn to regular	(E) Dock to remain (E) Bulkhead to remain APPROX LOC OF SEWER, PER CITY RECORDS
Property Line Hatched area represents (E) lawn to be replaced with notive plants. See legend for square footage data. 5' from OHWM = 25% native plants 5' from OHWM = 25% native plants	Lake Washington O 4 8 12 feet



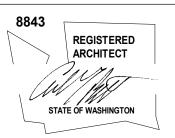


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PERMIT SET

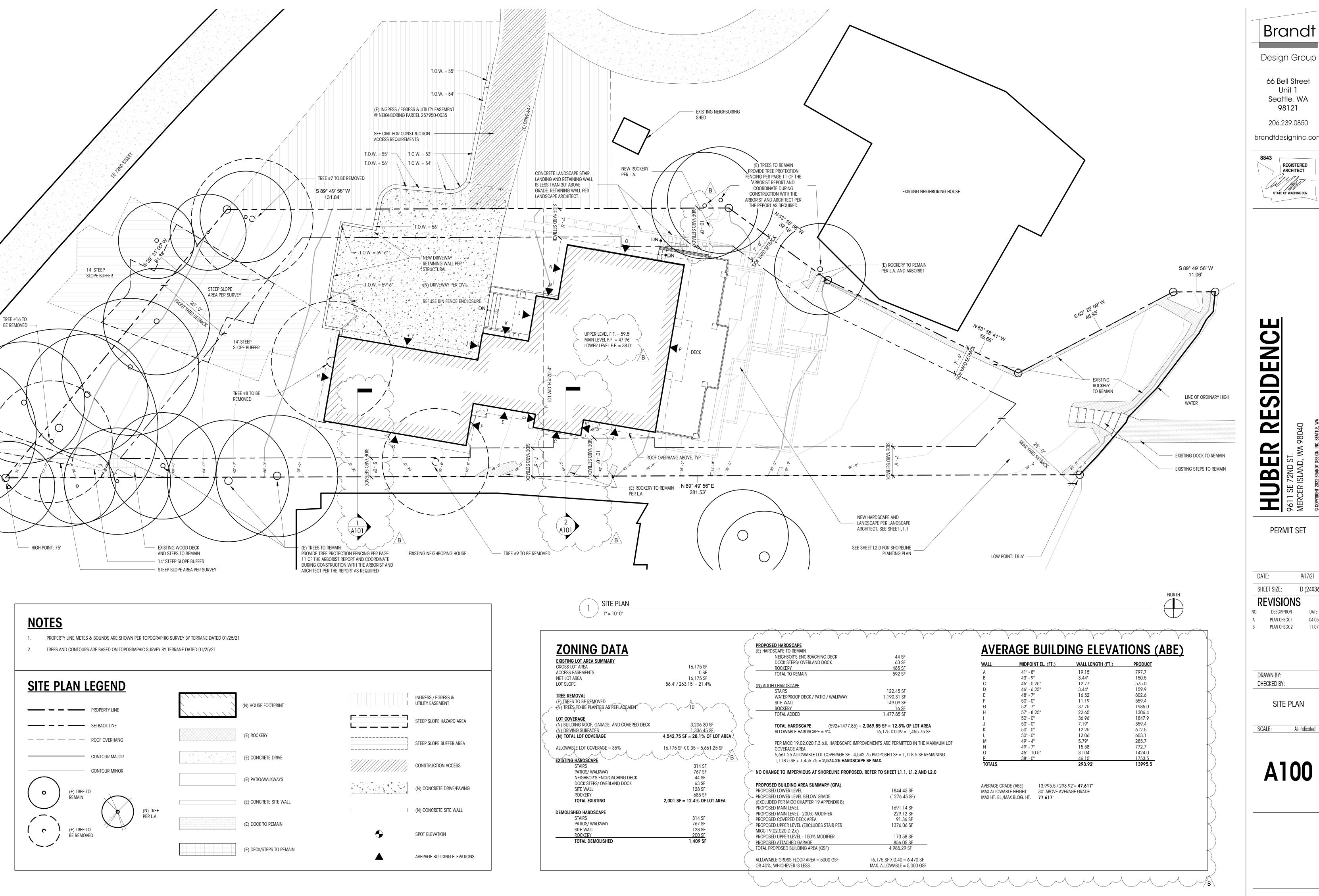
JB

9/17/21 DATE: D (24X36)

NO. DESCRIPTION DATE

DRAWN BY:

CHECKED BY: SITE DEMOLITION PLAN



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PERMIT SET

9611 SE MERCER I

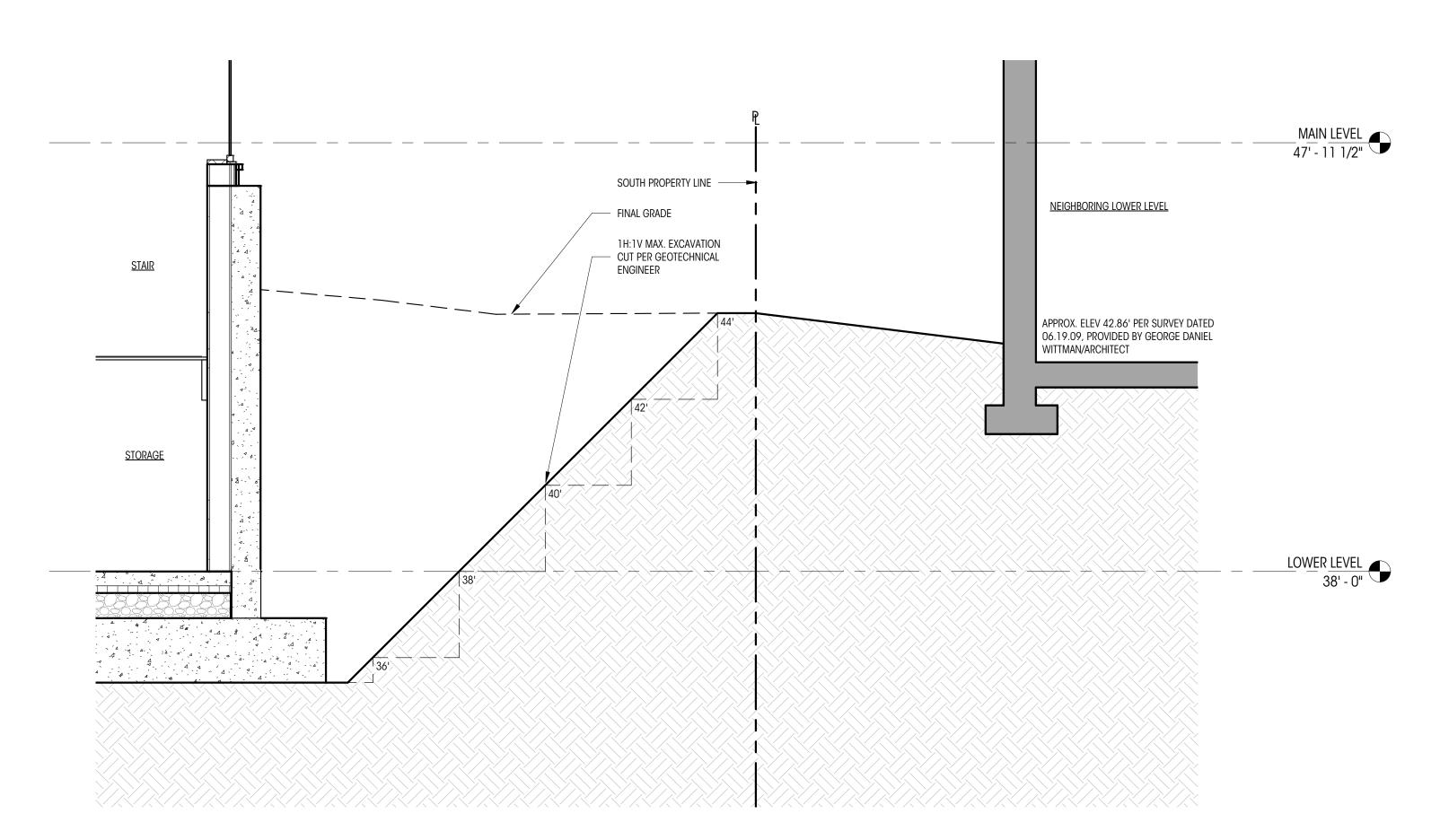
DATE: 9/17/21 D (24X36) SHEET SIZE:

11.07.22

DRAWN BY:

PLAN CHECK 1 PLAN CHECK 2

SITE PLAN





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ER RESIDENCE

PERMIT SET

DATE: 9/17/21 SHEET SIZE: D (24X36)

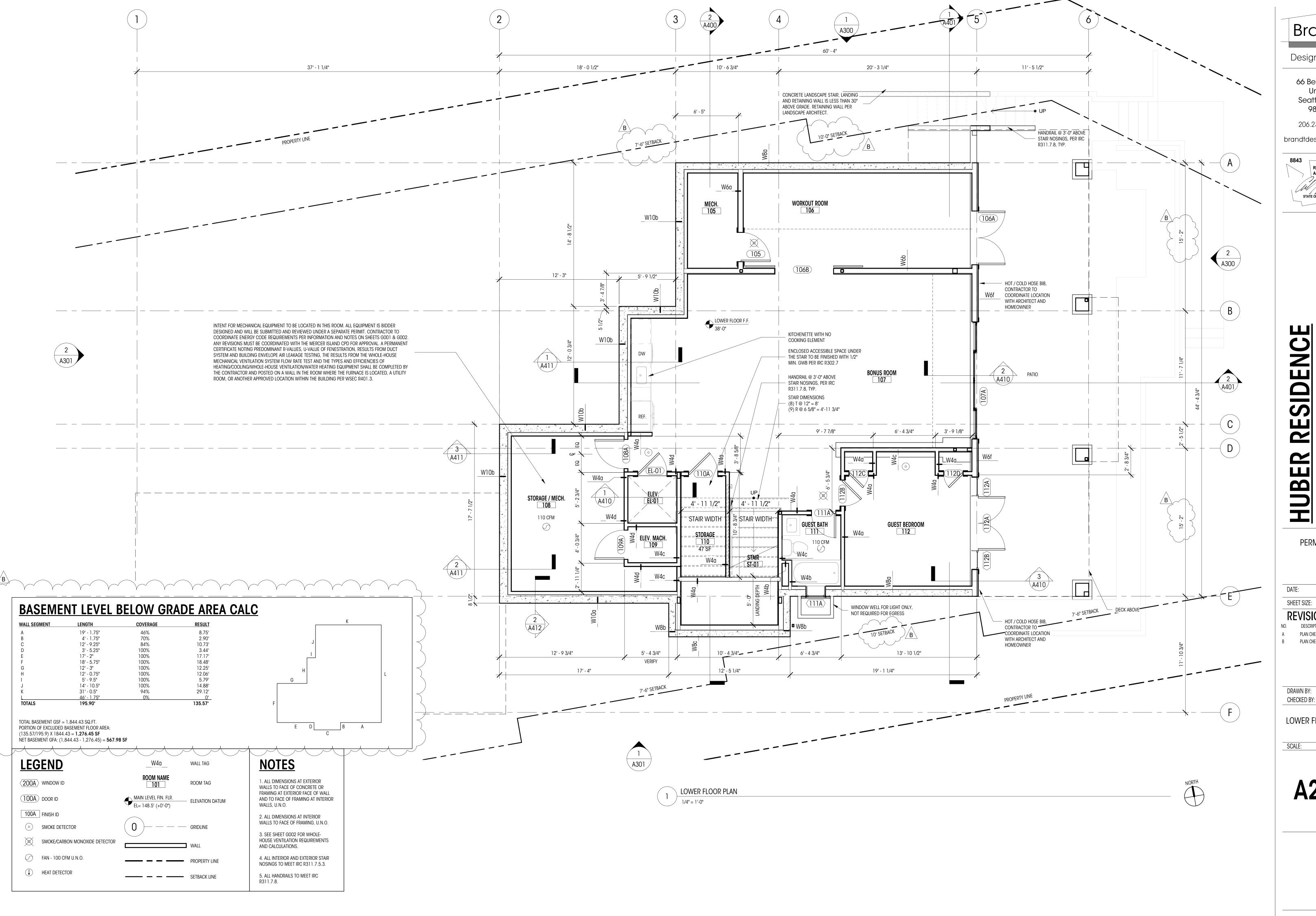
NO. DESCRIPTION DATE B PLAN CHECK 2 11.07.22

DRAWN BY:

CHECKED BY:

SITE SECTIONS

1/2" = 1'-0"



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REGISTERED ARCHITECT

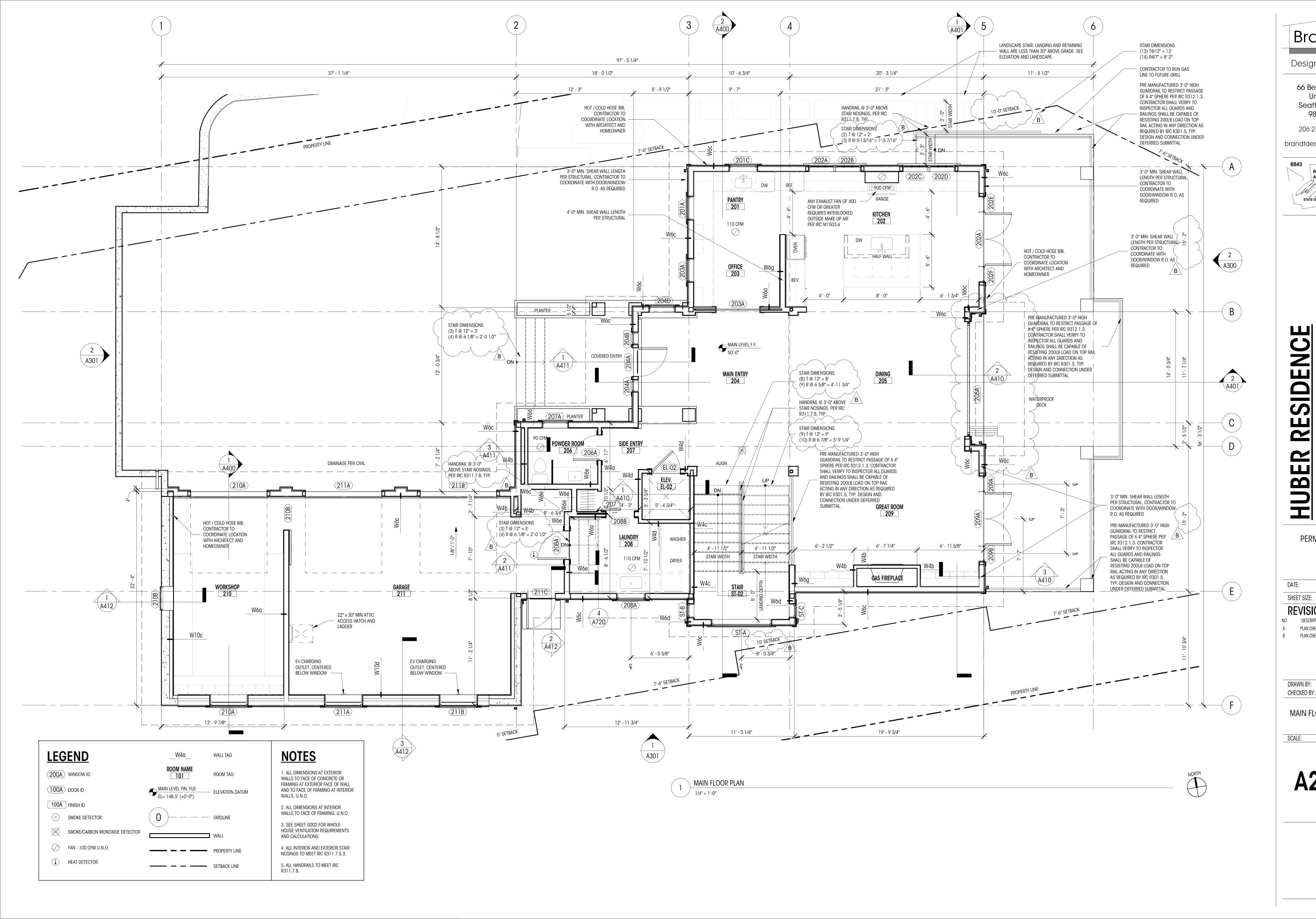
PERMIT SET

9/17/21

D (24X36) SHEET SIZE: NO. DESCRIPTION DATE

> PLAN CHECK 1 PLAN CHECK 2 11.07.22

LOWER FLOOR PLAN



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REGISTERED ARCHITECT

 \Box

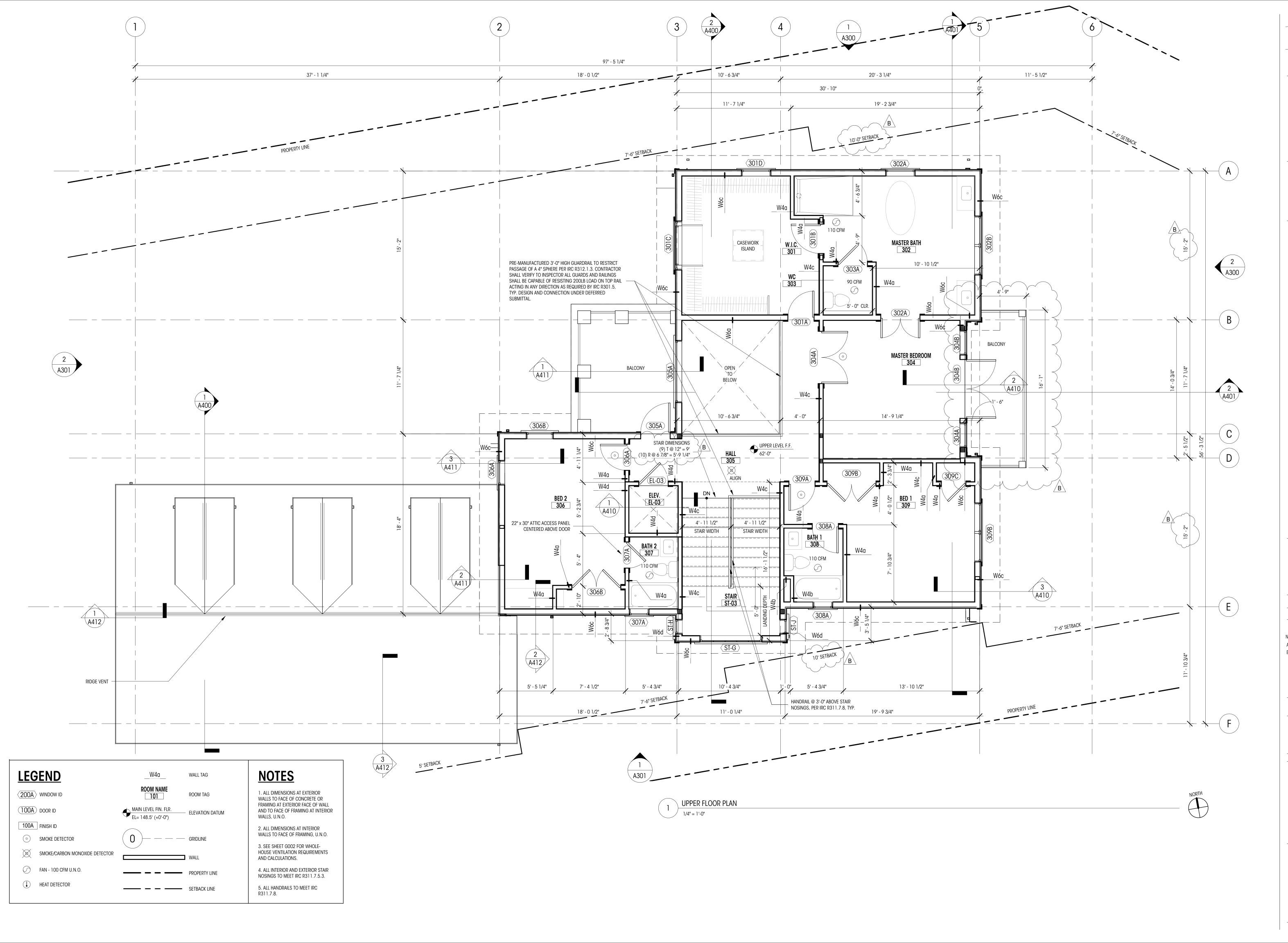
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DATE: 9/17/21 D (24X36) SHEET SIZE:

NO. DESCRIPTION DATE PLAN CHECK 1 B PLAN CHECK 2 11.07.22

DRAWN BY:

MAIN FLOOR PLAN

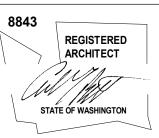


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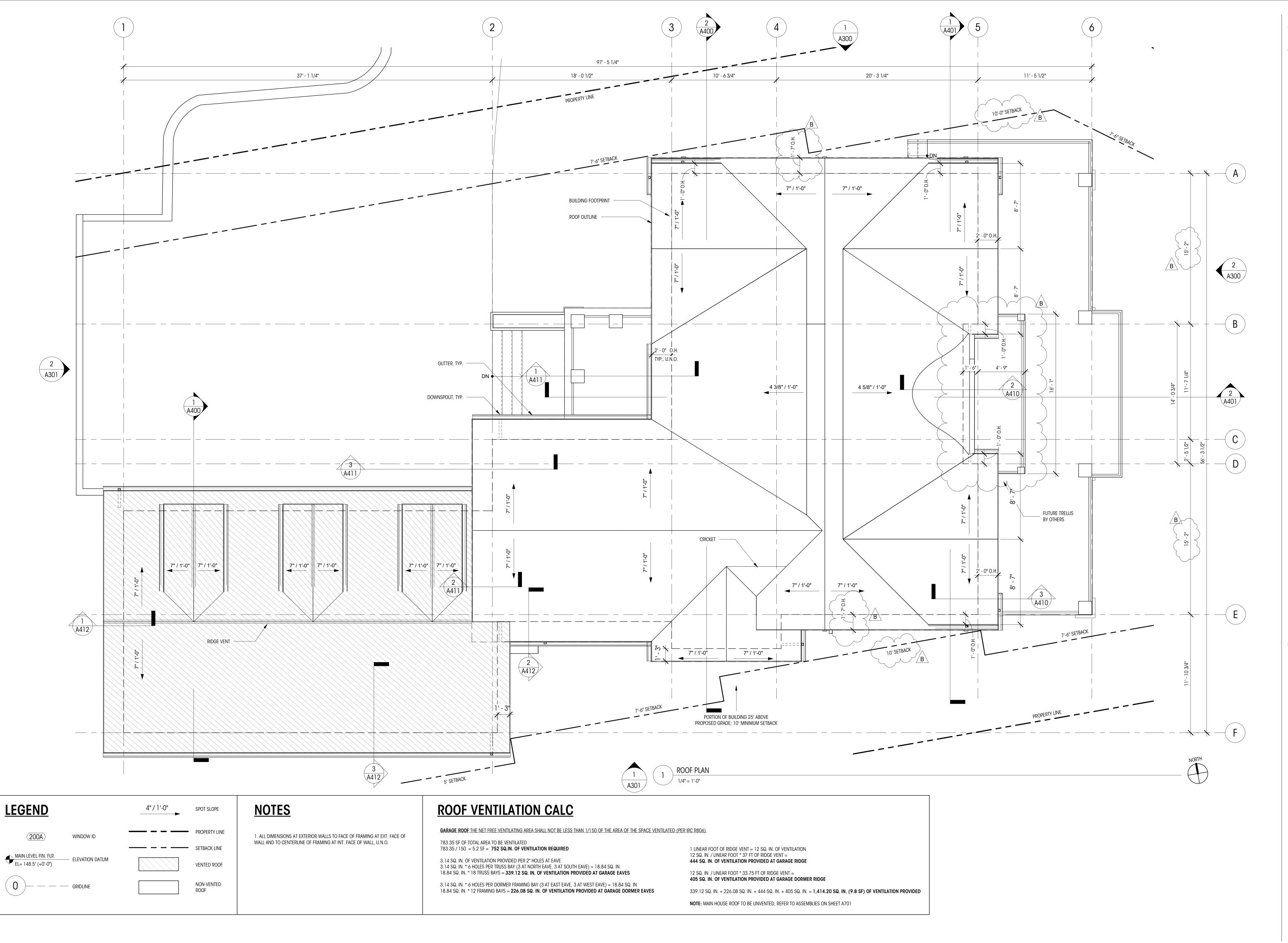
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DATE: 9/17/21 D (24X36) SHEET SIZE:

NO. DESCRIPTION DATE PLAN CHECK 1 B PLAN CHECK 2 11.07.22

DRAWN BY: CHECKED BY:

UPPER FLOOR PLAN



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RESIDENCE

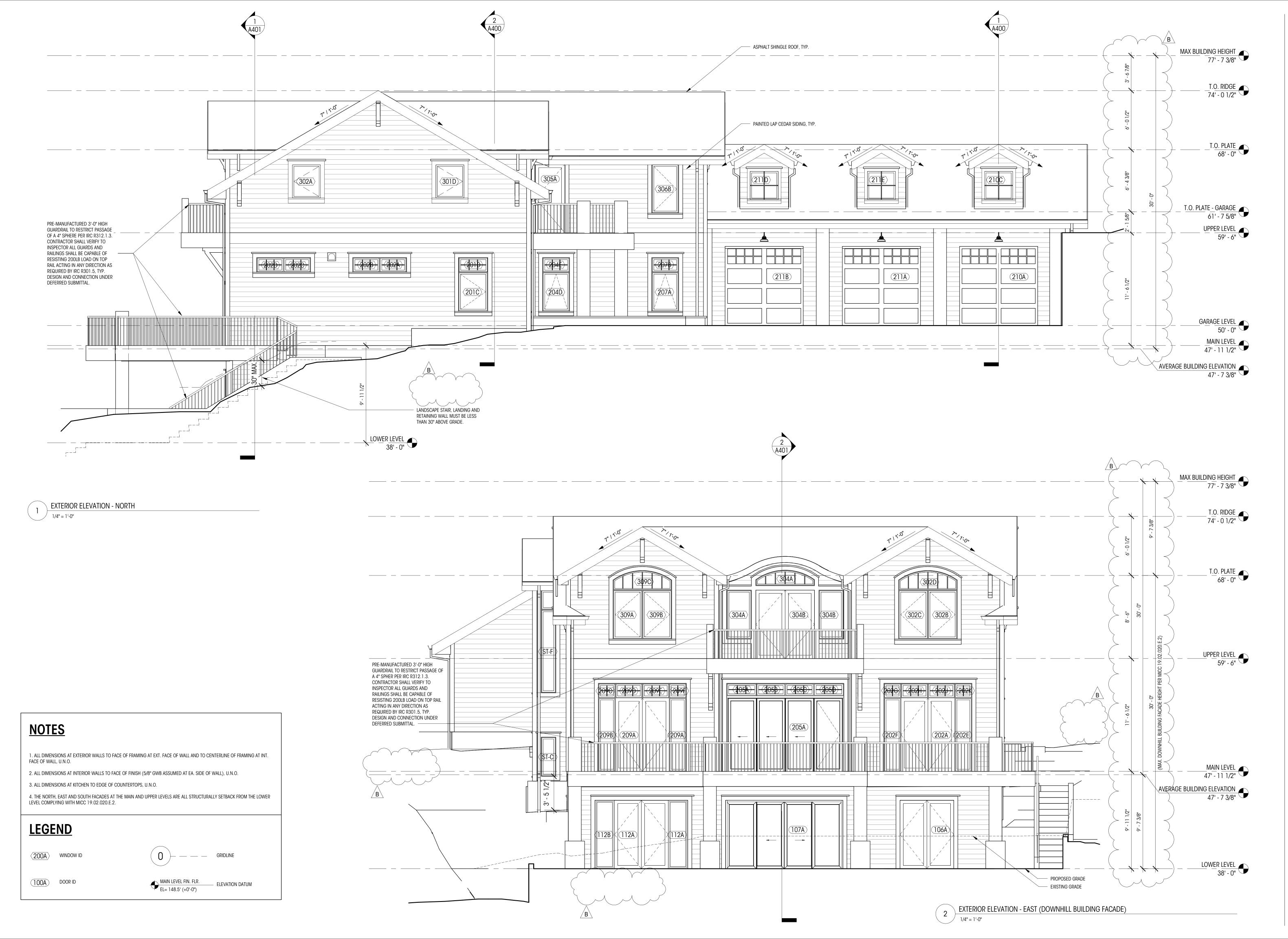
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DATE: 9/17/21 SHEET SIZE: D (24X36)

NO. DESCRIPTION DATE PLAN CHECK 1 B PLAN CHECK 2 11.07.22

DRAWN BY: CHECKED BY:

ROOF PLAN



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8843 REGISTERED ARCHITECT STATE OF WASHINGTON

RESIDENCE 9

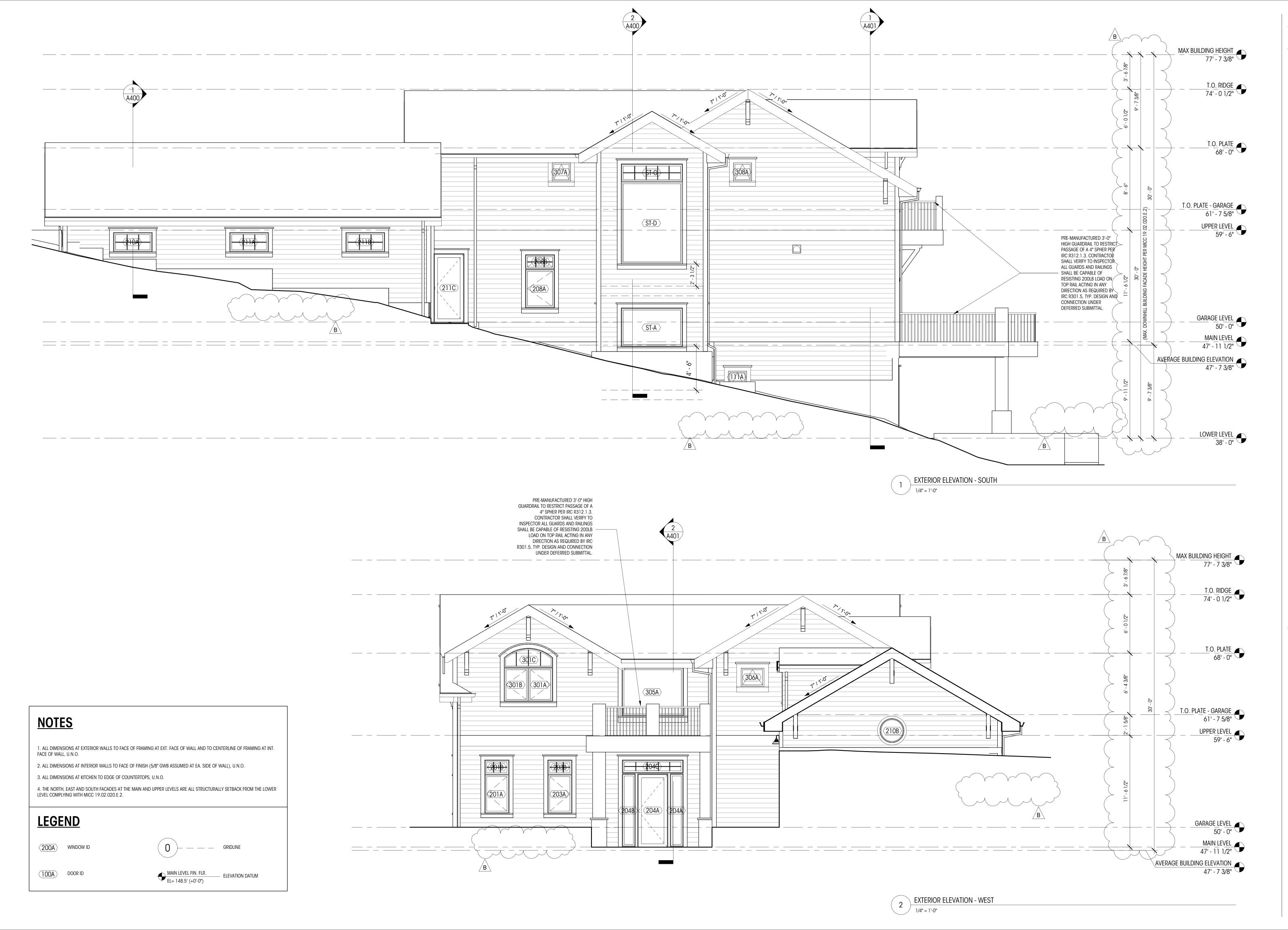
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DATE: 9/17/21 SHEET SIZE: D (24X36)

NO. DESCRIPTION DATE PLAN CHECK 1 B PLAN CHECK 2 11.07.22

DRAWN BY: CHECKED BY:

EXTERIOR ELEVATIONS (N & E)



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RESIDENCE B

PERMIT SET

DATE: 9/17/21 SHEET SIZE: D (24X36)

NO. DESCRIPTION DATE PLAN CHECK 1 B PLAN CHECK 2 11.07.22

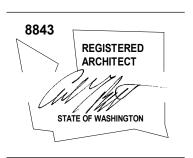
DRAWN BY: CHECKED BY: **EXTERIOR** ELEVATIONS (S &

Design Group

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206.239.0850

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B PLAN CHECK 2 11.07.22

9/17/21

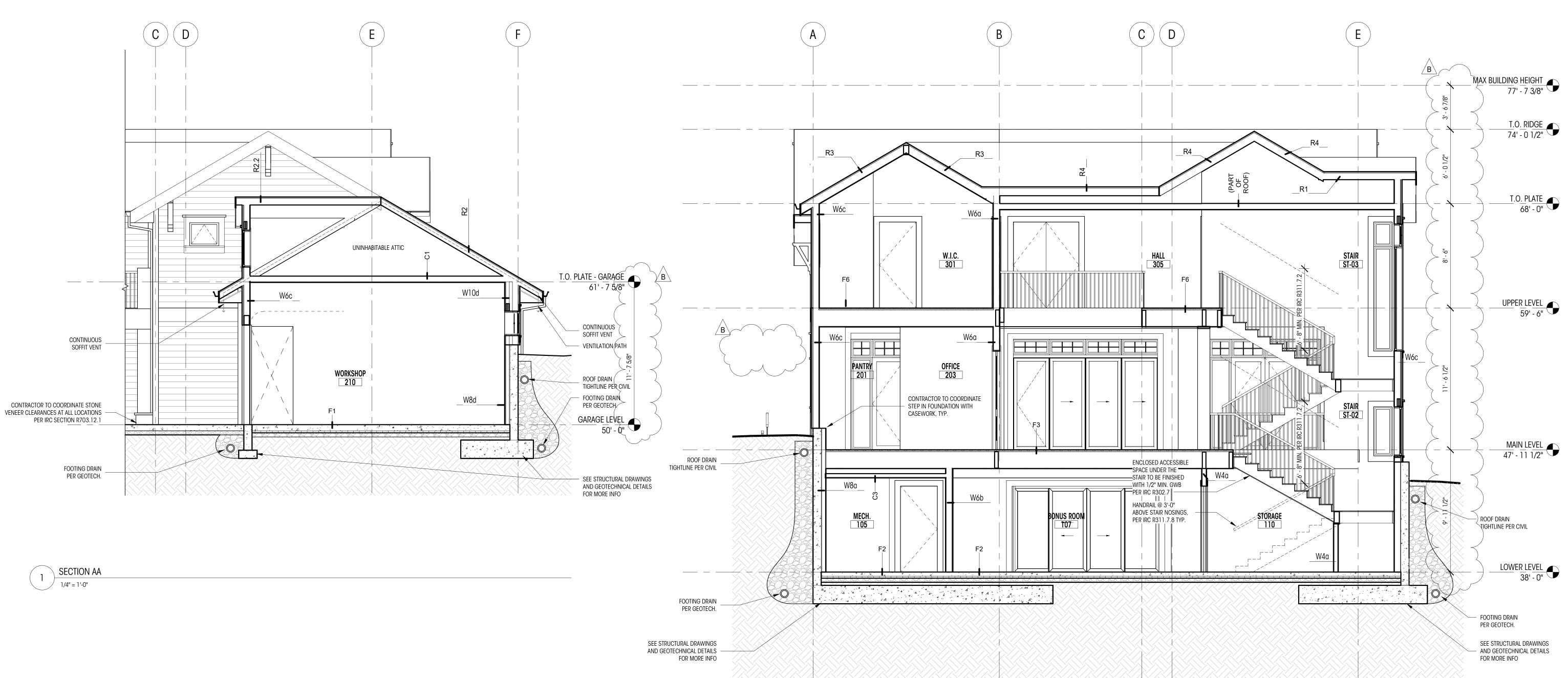
D (24X36)

04.05.22

DRAWN BY: CHECKED BY:

BUILDING SECTIONS

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



2 SECTION E



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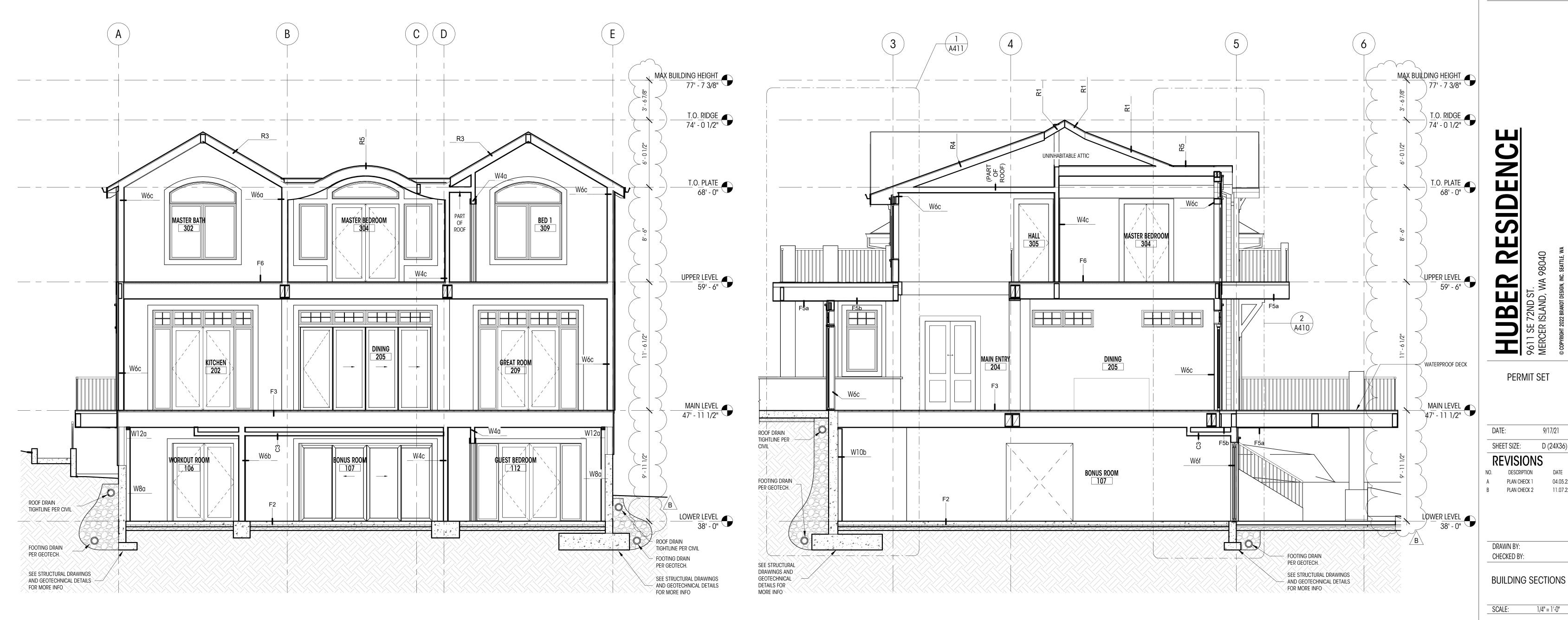
9/17/21

D (24X36)

04.05.22

11.07.22

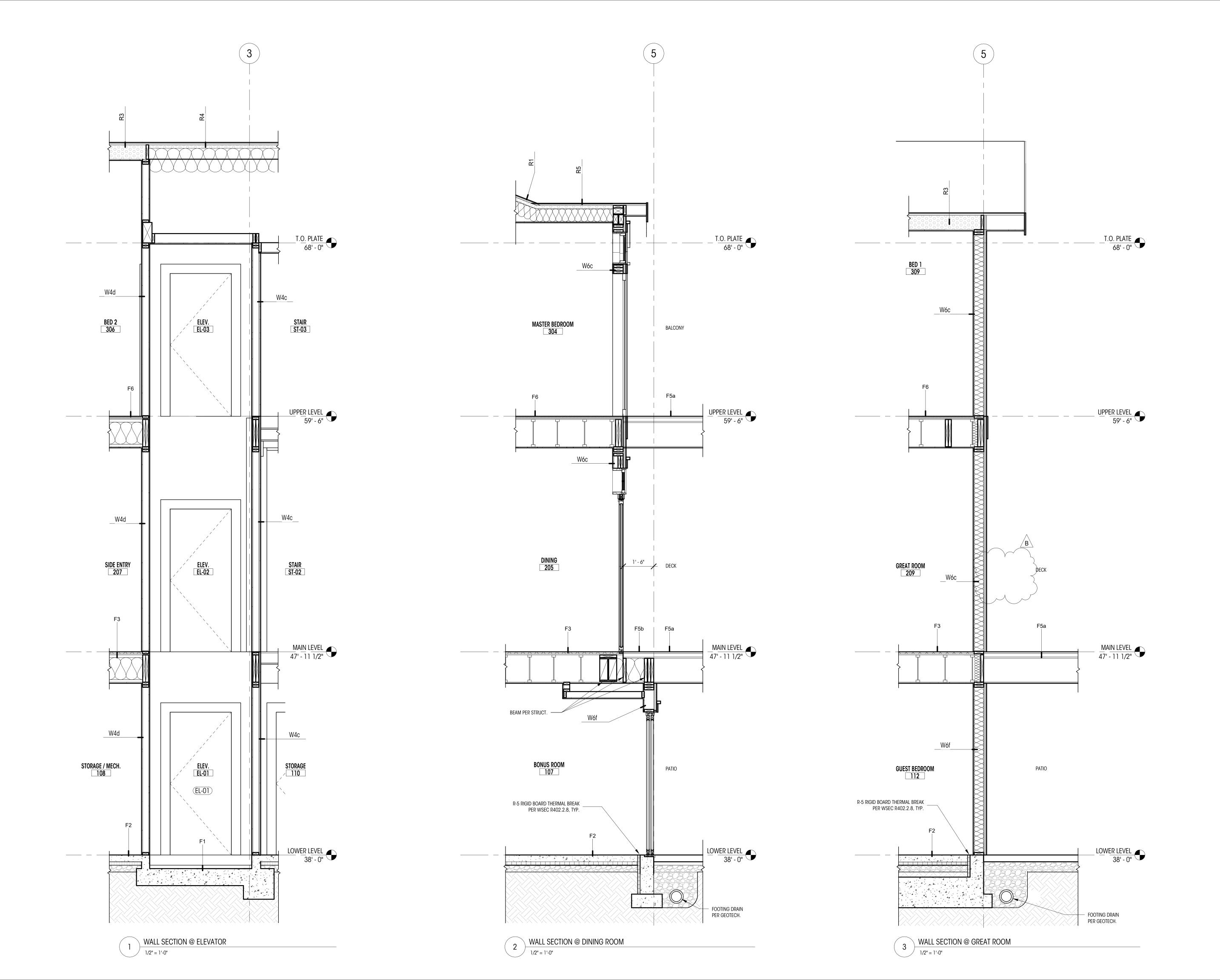
1/4" = 1'-0"



1/4" = 1'-0"

1 SECTION CC
1/4" = 1'-0"

A401



Design Group

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HUBER PERMIT SET

RESIDENCE

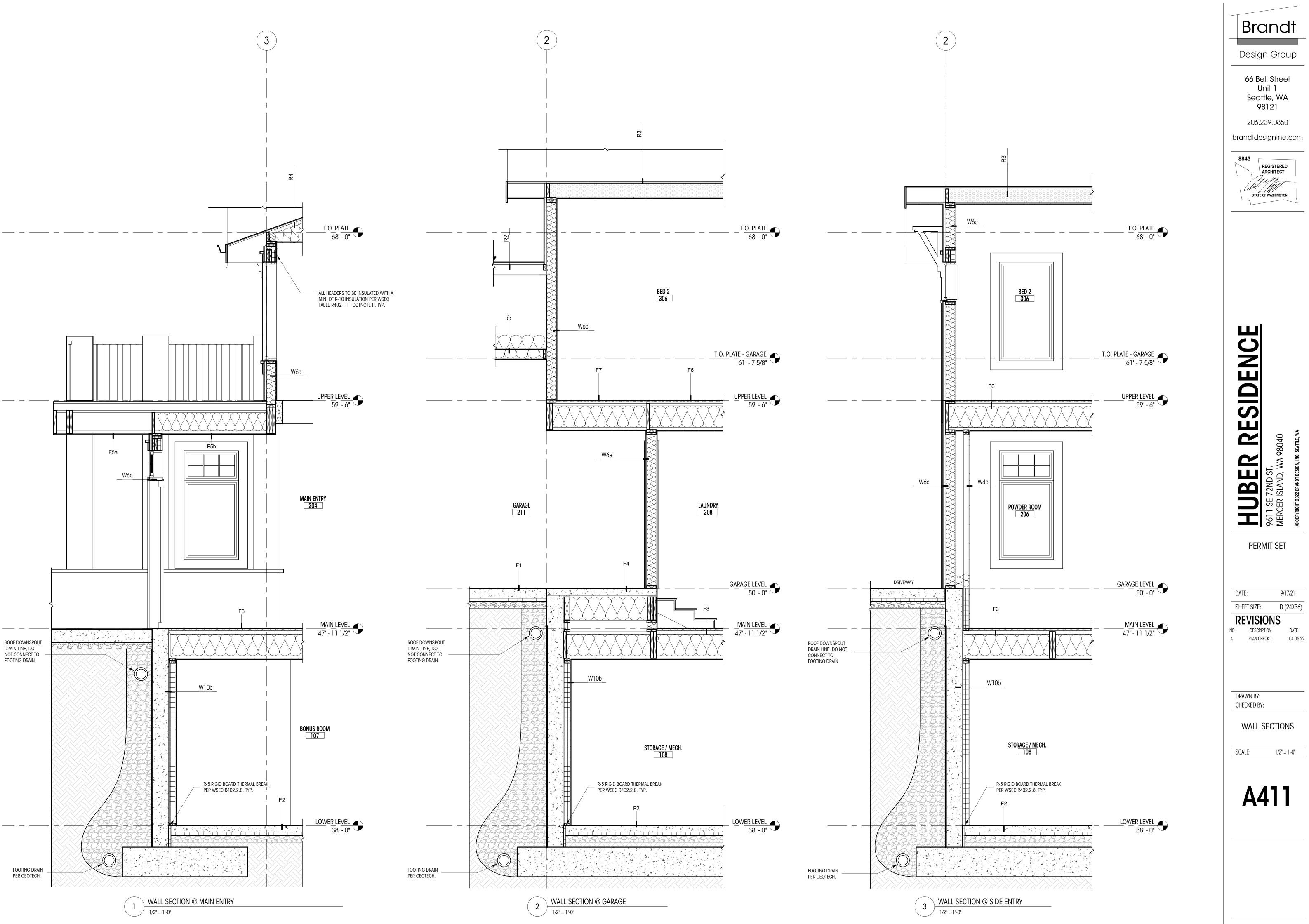
DATE: 9/17/21 SHEET SIZE: D (24X36)

NO. DESCRIPTION DATE A PLAN CHECK 1 B PLAN CHECK 2 04.05.22 11.07.22

DRAWN BY: CHECKED BY:

WALL SECTIONS

1/2" = 1'-0" SCALE:



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HUBER

PERMIT SET

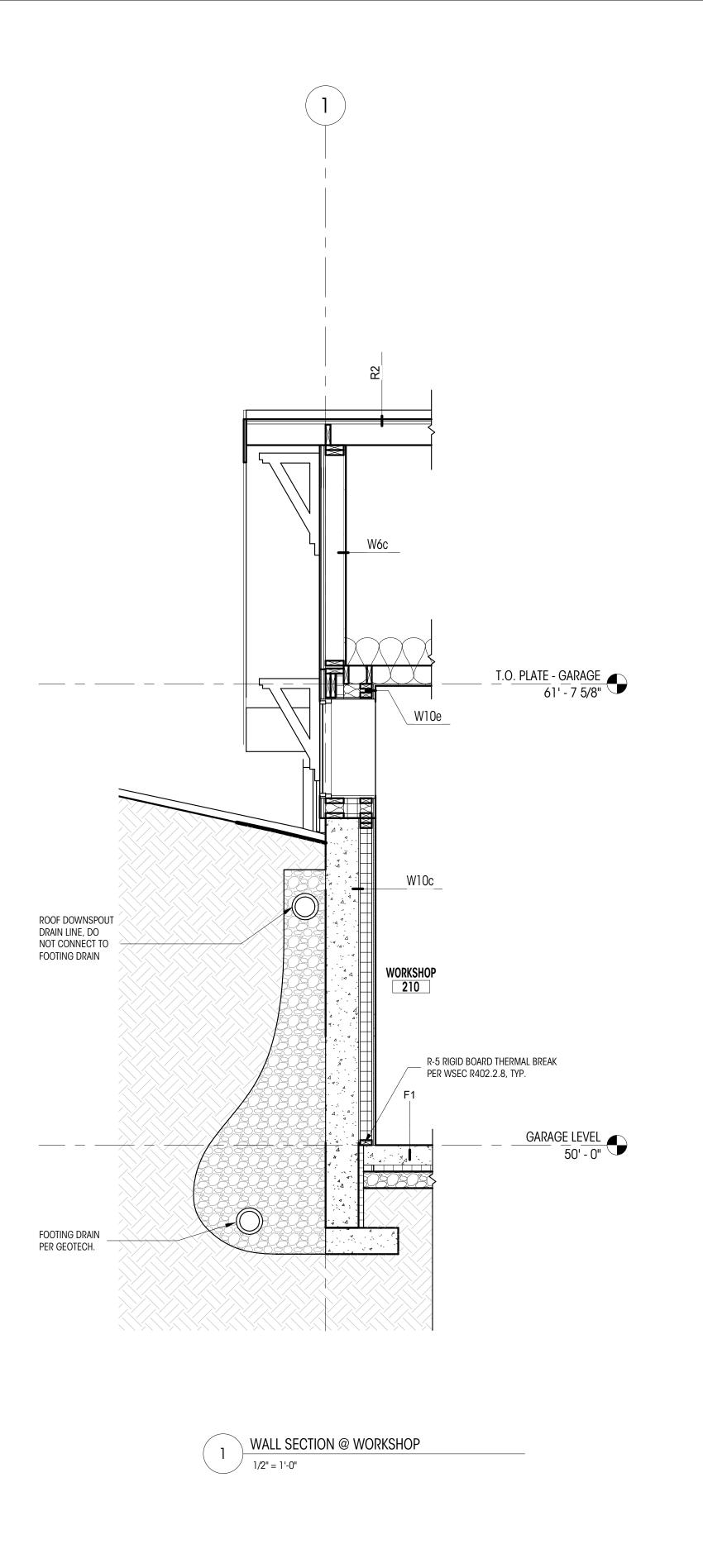
DATE: 9/17/21 SHEET SIZE: D (24X36)

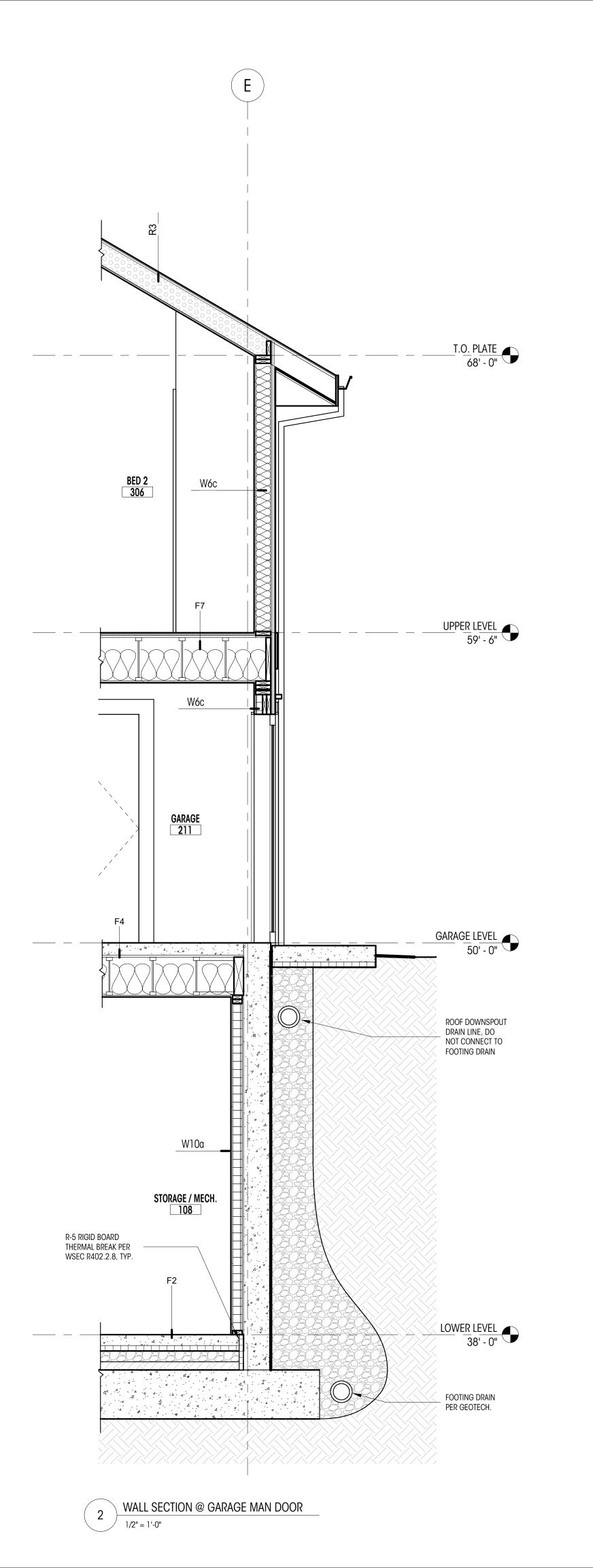
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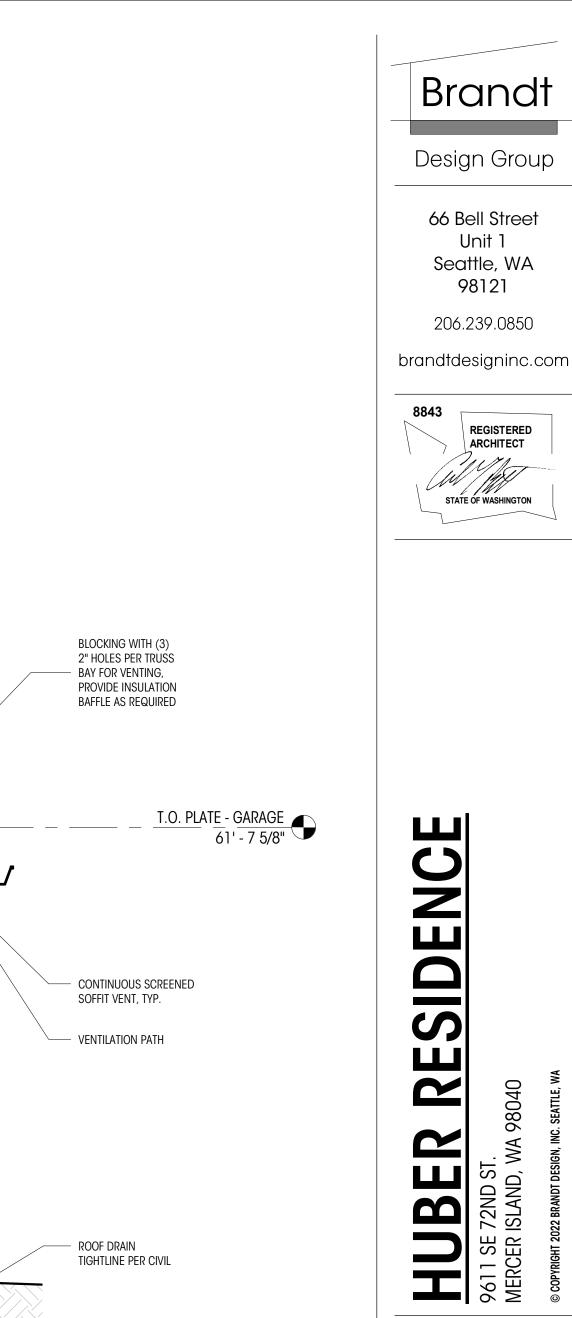
WALL SECTIONS

1/2" = 1'-0"

A411







ROOF DRAIN
TIGHTLINE PER CIVIL

FOOTING DRAIN PER GEOTECH.

GARAGE LEVEL 50' - 0"

_W10d__

__W8d__

3 WALL SECTION @ GARAGE EXTERIOR SOUTH WALL

1/2" = 1'-0"

PERMIT SET

DATE: 9/17/21 SHEET SIZE: D (24X36) REVISIONS

NO. DESCRIPTION DATE

PLAN CHECK 1 04.05.22

DRAWN BY:

CHECKED BY:

WALL SECTIONS

1/2" = 1'-0" SCALE:

					UNIT AREA			
AN ID	TYPE	WIDTH (ff)	HEIGHT (ff)	HEAD HT	(sf)	U VALUE	UA	NOTES
111A	J	2' - 0"	2' - 0"	7' - 0"	4 SF	0.2	1 SF	
112A	G	2' - 0"	7' - 0"	7'-0"	14 SF	0.2	3 SF	2
112A 112B	G	2' - 0"	7 - 0"	7'-0"	14 SF	0.2	3 SF	2
201A	A	2' - 6"	4' - 0"	7'-6"	10 SF	0.2	2 SF	
201A 201B	A	2' - 6"	1' - 6"	9' - 0"	4 SF	0.2	1 SF	
201C	<u> Н</u>	3' - 0"	4' - 0"	7' - 6"	12 SF	0.2	2 SF	
201D	A	3' - 0"	1' - 6"	9' - 0"	5 SF	0.2	1 SF	
202A	A	2' - 9"	1'-6"	9' - 0"	4 SF	0.2	1 SF	
202B	A	2' - 9"	1' - 6"	9' - 0"	4 SF	0.2	1 SF	
202C	A	2' - 9"	1'-6"	9' - 0"	4 SF	0.2	1 SF	
202D	A	2' - 9"	1'-6"	9' - 0"	4 SF	0.2	1 SF	
202E	G	1' - 9"	7' - 6"	7' - 6"	13 SF	0.2	3 SF	2
202F	G	1'-9"	7'-6"	7'-6"	13 SF	0.2	3 SF	2
202G	C	1' - 9"	1'-6"	9' - 0"	3 SF	0.2	1 SF	
202H	A	2' - 9"	1'-6"	9' - 0"	4 SF	0.2	1 SF	
202J	A	2' - 9"	1'-6"	9' - 0"	4 SF	0.2	1 SF	
2025 202K	C	1' - 9"	1'-6"	9' - 0"	3 SF	0.2	1 SF	
203A	A	2' - 6"	4' - 0"	7' - 6"	10 SF	0.2	2 SF	
203B	A	2' - 6"	1'-6"	9' - 0"	4 SF	0.2	1 SF	
204A	G	1' - 4"	7' - 6"	7' - 6 3/4"	10 SF	0.2	2 SF	2
204B	G	1' - 4"	7' - 6"	7' - 6 3/4"	10 SF	0.2	2 SF	2
204C	E	6' - 3"	1' - 4"	9' - 0"	8 SF	0.2	2 SF	
204D	J	2' - 9"	4' - 0"	7' - 6"	11 SF	0.2	2 SF	
204E	A	2' - 9"	1'-6"	9' - 0"	4 SF	0.2	1 SF	
205A	A	3' - 0 3/4"	1' - 3 1/4"	9' - 0"	4 SF	0.2	1 SF	
205B	A	2' - 11 1/4"	1' - 3 1/4"	9' - 0"	4 SF	0.2	1 SF	
205C	A	2' - 11 1/4"	1' - 3 1/4"	9' - 0"	4 SF	0.2	1 SF	
205D	A	3' - 0 3/4"	1' - 3 1/4"	9' - 0"	4 SF	0.2	1 SF	
207A	J	2' - 9"	4' - 0"	7' - 6"	11 SF	0.2	2 SF	
207B	Α	2' - 9"	1' - 6"	9' - 0"	4 SF	0.2	1 SF	
208A	Н	3' - 0"	4' - 0"	7' - 6"	12 SF	0.2	2 SF	
208B	Α	3' - 0"	1' - 6"	9' - 0"	5 SF	0.2	1 SF	
209A	G	1' - 9"	7' - 6"	7' - 6"	13 SF	0.2	3 SF	2
209B	G	1' - 9"	7' - 6"	7' - 6"	13 SF	0.2	3 SF	2
209C	С	1' - 9"	1' - 6"	9' - 0"	3 SF	0.2	1 SF	
209D	Α	2' - 9"	1' - 6"	9' - 0"	4 SF	0.2	1 SF	
209E	А	2' - 9"	1' - 6"	9' - 0"	4 SF	0.2	1 SF	
209F	С	1' - 9"	1' - 6"	9' - 0"	3 SF	0.2	1 SF	
210A	В	4' - 0"	2' - 0"	9' - 3"	8 SF	0.2	2 SF	2
210B	М	2' - 6"	2' - 6"	11' - 3"	6 SF	0.2	1 SF	
210C	С	3' - 0"	3' - 0"	4' - 2 3/8"	9 SF	0.2	2 SF	
211A	В	4' - 0"	2' - 0"	9' - 3"	8 SF	0.2	2 SF	2
211B	В	4' - 0"	2' - 0"	9' - 3"	8 SF	0.2	2 SF	2
211D	С	3' - 0"	3' - 0"	4' - 2 3/8"	9 SF	0.2	2 SF	

					UNIT AREA			
PLAN ID	TYPE	WIDTH (ff)	HEIGHT (ff)	HEAD HT	(sf)	U VALUE	UA	NOTES
211E	С	3' - 0"	3' - 0"	4' - 2 3/8"	9 SF	0.2	2 SF	
301A	Н	2' - 6"	3' - 6"	7' - 0"	9 SF	0.2	2 SF	
301B	Н	2' - 6"	3' - 6"	7' - 0"	9 SF	0.2	2 SF	
301C	D	4' - 0"	2' - 0"	9' - 0"	8 SF	0.2	2 SF	
301D	Н	3' - 0"	3' - 6"	7' - 0"	11 SF	0.2	2 SF	
302A	Н	3' - 0"	3' - 6"	7' - 0"	11 SF	0.2	2 SF	2
302B	Н	3' - 0"	5' - 0"	7' - 0"	15 SF	0.2	3 SF	1
302C	Н	3' - 0"	5' - 0"	7' - 0"	15 SF	0.2	3 SF	1
302D	D	4' - 0"	2' - 0"	9' - 0"	8 SF	0.2	2 SF	
304A	D	4' - 0"	2' - 0"	11 1/2"	8 SF	0.2	2 SF	
304A	G	2' - 6"	5' - 0"	7' - 0"	13 SF	0.2	3 SF	2
304B	G	2' - 6"	5' - 0"	7' - 0"	13 SF	0.2	3 SF	2
305A	G	6' - 4"	5' - 0"	7' - 0"	32 SF	0.2	6 SF	
306A	J	2' - 6"	2' - 0"	7' - 0"	5 SF	0.2	1 SF	
306B	Н	2' - 9"	5' - 0"	7' - 0"	14 SF	0.2	3 SF	1
307A	K	2' - 0"	2' - 0"	7' - 0"	4 SF	0.2	1 SF	
308A	K	2' - 0"	2' - 0"	7' - 0"	4 SF	0.2	1 SF	
309A	Н	3' - 0"	5' - 0"	7' - 0"	15 SF	0.2	3 SF	1
309B	Н	3' - 0"	5' - 0"	7' - 0"	15 SF	0.2	3 SF	1
309C	D	4' - 0"	2' - 0"	9' - 0"	8 SF	0.2	2 SF	
ST-A	G	6' - 4"	4' - 0"	13' - 5 1/2"	25 SF	0.2	5 SF	
ST-B	G	1' - 6"	4' - 0"	13' - 5 1/2"	6 SF	0.2	1 SF	
ST-C	G	1' - 6"	4' - 0"	13' - 5 1/2"	6 SF	0.2	1 SF	
ST-D	G	6' - 4"	8' - 6"	16' - 6 1/2"	54 SF	0.2	11 SF	2
ST-E	G	1' - 6"	8' - 6"	16' - 6 1/2"	13 SF	0.2	3 SF	2
ST-F	G	1' - 6"	8' - 6"	16' - 6 1/2"	13 SF	0.2	3 SF	2
ST-G	Е	6' - 4"	1' - 10"	6' - 10"	12 SF	0.2	2 SF	
ST-H	С	1' - 6"	2' - 0"	7' - 0"	3 SF	0.2	1 SF	
ST-J	С	1' - 6"	2' - 0"	7' - 0"	3 SF	0.2	1 SF	

PLAN ID TYPE WIDTH (ft.) HEIGHT (ft.) AREA (sf.) U VALUE UA NOTES A 3' - 0" 7' - 0" 21 SF E 5' - 6" 7' - 0" 39 SF 0.2 8 SF K 6' - 0" 7' - 0" 42 SF F 12' - 0" 7' - 0" 84 SF A 3'-0" 7'-0" 21 SF 108A A 3' - 0" 7' - 0" 21 SF 110A A 3' - 0" 7' - 0" 21 SF 111A A 2'-6" 7'-0" 18 SF E 5' - 6" 7' - 0" 39 SF 0.2 8 SF A 2' - 8" 7' - 0" 19 SF A 2' - 0" 7' - 0" A 2' - 0" 7' - 0" 14 SF E 5' - 6" 7' - 6" 41 SF 0.2 8 SF G 4' - 6" 8' - 0" D 3' - 0" 7' - 6" 23 SF 0.2 H 12' - 0" 7' - 6" 90 SF 0.2 18 SF A 2'-8" 8'-0" 21 SF A 2' - 0" 8' - 0" 16 SF A 3'-0" 7'-0" 21 SF B 3' - 0" 8' - 0" 24 SF E 5' - 6" 7' - 6" 41 SF M 8' - 0" 8' - 0" 64 SF 4 J 3' - 6" 8' - 0" 28 SF 211A M 8'-0" 8'-0" 64 SF M 8' - 0" 8' - 0" D 3'-0" 7'-0" 21 SF A 2'-8" 7'-0" 19 SF 0.2 4 SF 301B A 3' - 0" 7' - 0" 21 SF C 4' - 0" 7' - 0" 28 SF A 3'-0" 7'-0" 21 SF C 5' - 4" 7' - 0" 37 SF E 6' - 0" 7' - 0" 42 SF D 3'-0" 7'-0" 21 SF 306A A 2' - 8" 7' - 0" 19 SF C 5' - 0" 7' - 0" 35 SF A 2' - 8" 7' - 0" 19 SF A 2' - 8" 7' - 0" 19 SF A 2' - 8" 7' - 0" 19 SF C 5' - 0" 7' - 0" 35 SF

A 2'-6" 7'-0" 18 SF A 3' - 0" 7' - 0" 21 SF

EL-02 A 3'-0" 7'-0" 21 SF EL-03 A 3' - 0" 7' - 0" 21 SF

DOUBLE FLUSH

DOOR SCHEDULE

GENERAL NOTES

- ALL NEW DOORS TO BE NFRC CERTIFIED
- ALL NEW VERTICAL FENESTRATION U-VALUE TO MEET ENERGY COMPLIANCE GUIDELINES, SEE SHEET GOOT

←

DOUBLE

POCKET DOOR

- ALL DOORS TO BE SOLID-CORE WOOD VENEER, PANEL TBD. ALL GLAZING IN DOORS TO BE TEMPERED / SAFETY GLAZING
- REFER TO PLANS AND ELEVATIONS FOR TAGS, LOCATION, AND OPERATION.

SPECIFIC NOTES

- 20-MINUTE RATED W/ SELF-CLOSURE PER IRC R302.5.1
- ACCESS DOOR TO UNDER STAIR

─

<u>M</u> OVERHEAD

GARAGE DOOR

SLIDING GLASS

DOUBLE FLUSH GLASS

\ /

<u>K</u> DOUBLE

BARN DOOR

←---

SINGLE FLUSH

\ /

/\

BARN DOOR

OVERHEAD DOOR

Brandt

Design Group

66 Bell Street

Unit 1

Seattle, WA

98121

206.239.0850

brandtdesigninc.com

REGISTERED ARCHITECT

B

9611 SE WERCER I PERMIT SET

DATE: 9/17/21 SHEET SIZE: D (24X36)

REVISIONS NO. DESCRIPTION DATE A PLAN CHECK 1 04.05.22

DRAWN BY:

CHECKED BY: DOOR & WINDOW SCHEDULES & LEGENDS & NOTES

1/4" = 1'-0"

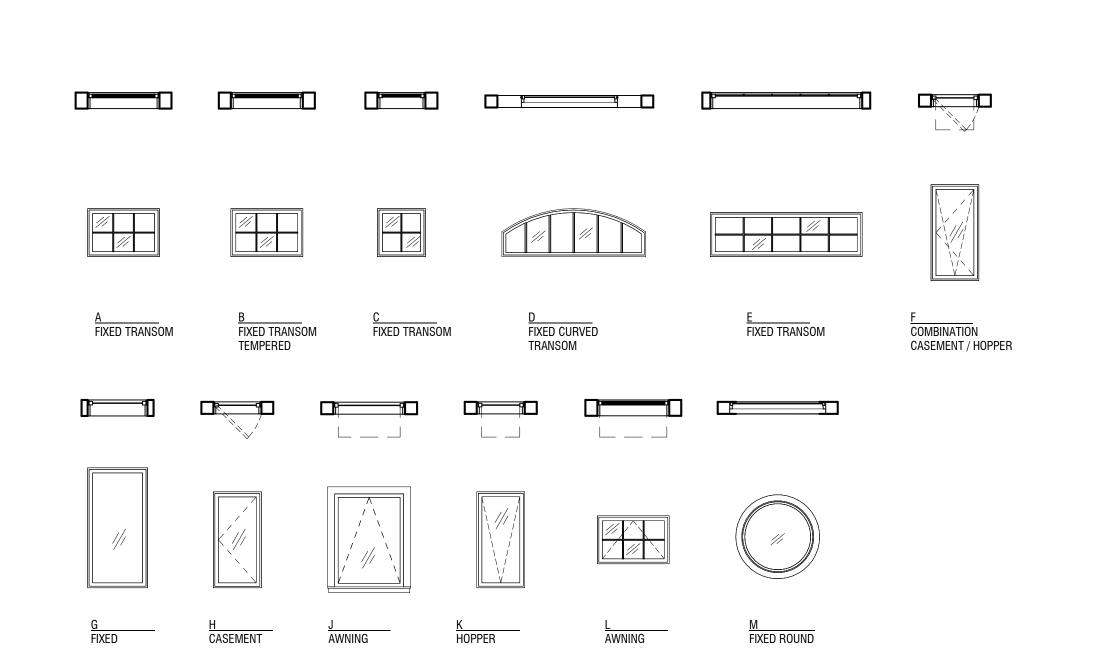
1. EGRESS

SPECIFIC NOTES

2. TEMPERED GLASS/SAFETY GLAZING

GENERAL NOTES

- ALL DIMENSIONS SHOWN ARE FINISHED DIMENSIONS, R.O. PER CONTRACTOR.
- CONTRACTOR TO VERIFY ALL SIZES AND DIMENSIONS IN FIELD WITH OWNER BEFORE ORDERING.
- ALL NEW WINDOWS TO BE NFRC CERTIFIED.
- REFER TO PLANS AND ELEVATIONS FOR TAGS, LOCATION, AND OPERATION. ALL ELEVATIONS ARE FROM THE EXTERIOR.
- ALL NEW VERTICAL FENESTRATION U-VALUE TO MEET ENERGY COMPLIANCE, SEE SHEET
- PER IBC 8310.2 ALL EGRESS OPENINGS SHALL HAVE A NET CLEAR OPENING OF NOT LESS THAN 5.7 SF, NET CLEAR HEIGHT OPENING SHALL NOT BE LESS THAN 24" AND THE NET CLEAR WIDTH SHALL BE NOT LESS THAN 20".
- THE WINDOW SILL SHALL HAVE HEIGHT OF NOT MORE THAN 44" ABOVE THE FLOOR PER IRC R308.4.3, GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL NEEDS TO
- BE TEMPERED GLASS / SAFETY GLAZING OF ALL OF THE FOLLOWING CONDITIONS ARE PRESENT:
- A. THE EXPOSED AREA OF AN INDIVIDUAL PANE IS LARGER THAN 9 SF, THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18" ABOVE THE FLOOR,
- THE TOP EDGE OF THE GLAZING IS MORE THAN 36 " ABOVE THE FLOOR, AND
- ONE OR MORE WALKING SURFACES ARE WITHING 36", MEASURE HORIZONTALLY IN A STRAIGHT LINE OF THE GLAZING.



ARCH - WINDOW TYPES

1/4" = 1'-0"

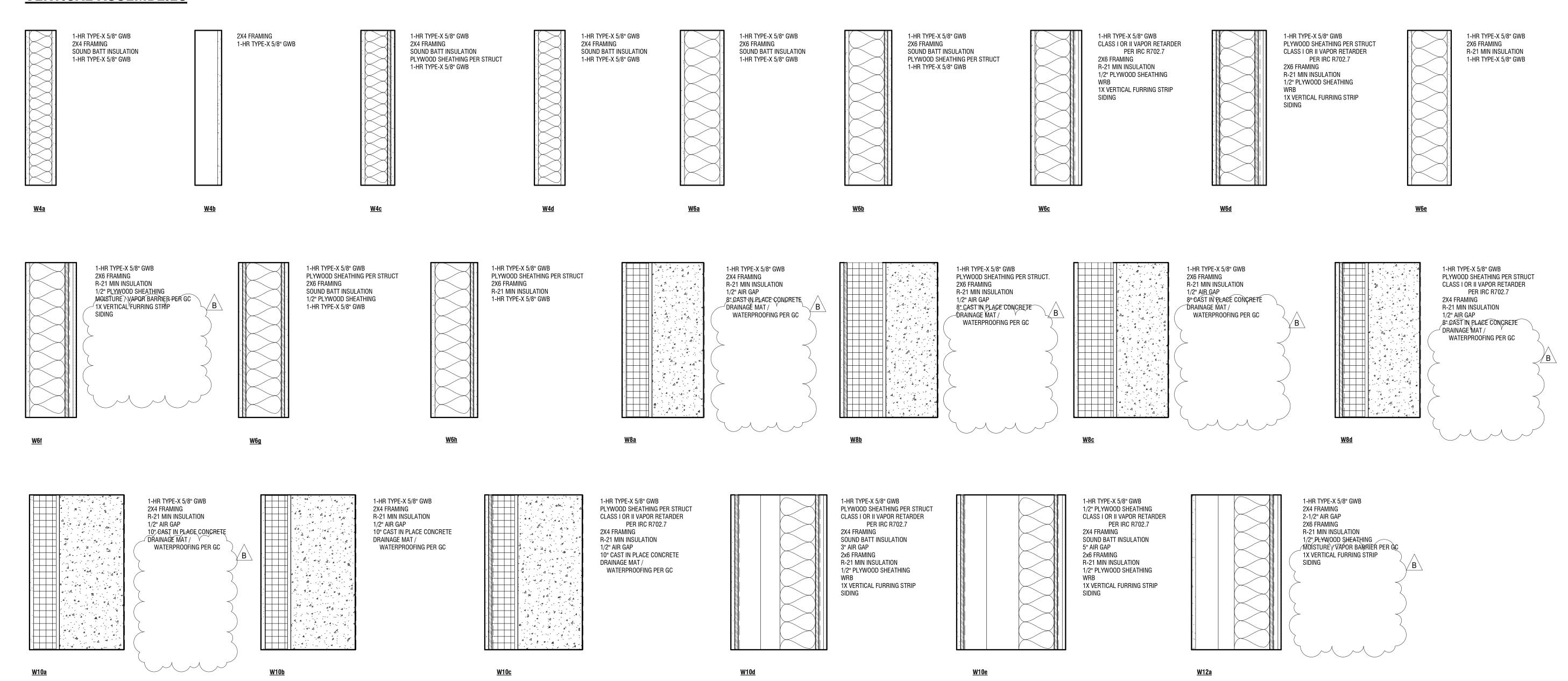
ARCH - DOOR TYPES 1/4" = 1'-0"

H BI-FOLD GLASS

SINGLE FLUSH

POCKET DOOR

VERTICAL ASSEMBLIES



GENERAL NOTES:

- 1. 1-HR TYPE-X 5/8" GWB GYPSUM REQUIRED THROUGHOUT TO MEET APPROVED FIRE CODE ALTERNATE.
- CLASS I OR II VAPOR RETARDERS ARE REQUIRED ON THE INTERIOR SIDE OF FRAME WALLS PER IRC R702.7.
- EXCEPTIONS:

 A. BASEMENT WALLS
- BELOW-GRADE PORTIONS OF ANY WALL CONSTRUCTION WHERE MOSITURE OR ITS FREEZING WILL NOT DAMAGE THE MATERIALS.

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Design Group

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206.239.0850

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JBER RESIDENC SE ZND ST.

PERMIT SET

DATE: 9/17/21

SHEET SIZE: D (24X36)

REVISIONS

 NO.
 DESCRIPTION
 DATE

 A
 PLAN CHECK 1
 04.05.22

 B
 PLAN CHECK 2
 11.07.22

DRAWN BY: CHECKED BY:

ASSEMBLY DETAILS -VERTICAL

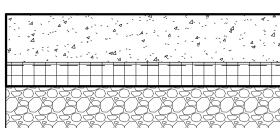
SCALE: 1 1/2" = 1'-0"

A700

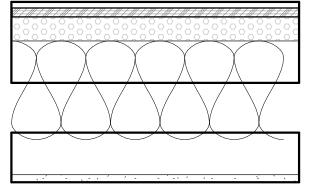
HORIZONTAL ASSEMBLIES

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	H	##		7					
750	500	50	500	200	75	757	750	500	505
		78-7	78-7		77	778			

CONCRETE SLAB (THICKNESS PER STRUCT) VAPOR BARRIER R-10 RIGID INSULATION 4" FREE DRAINING MATERIAL

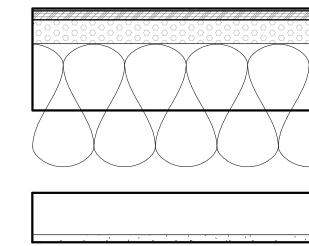


LARGE FORMAT TILE PLYWOOD SHEATHING PER STRUCT FRAMING PER STRUCT SOUND BATT INSULATION 1-HR TYPE-X 5/8" GWB



COMPOSITE ROOFING ROOFING MEMBRANE PLYWOOD SHEATHING PER STRUCT FRAMING PER STRUCT R-10 MIN AIR IMPERMEABLE CLASS II VAPOR RETARDER SPRAY FOAM INSULATION INSTALLED IN DIRECT CONTACT TO UNDERSIDE OF SHEATHING AND R-28 MIN AIR PERMEABLE INSULATION APPLIED DIRECTLY TO THE UNDERSIDE OF THE AIR IMPERMEABLE INSULATION IN ACCORDANCE WITH R806.5.5.5.1 (5.1.3) TO A TOTAL OF R-38 MIN `

1-HR TYPE-X 5/8" GWB



ROOFING MEMBRANE PLYWOOD SHEATHING PER STRUCT PRE-MANUFACTURED TRUSSES PER TRUSS MANUFACTURER R-10 MIN AIR-IMPERMEABLE CLASS II VAPOR RETARDER SPRAY FOAM INSULATION INSTALLED IN DIRECT CONTACT TO UNDERSIDE OF SHEATHING AND R-39 MIN AIR PERMEABLE INSULATION APPLIED DIRECTLY TO THE UNDERSIDE OF THE AIR IMPERMEABLE INSULATION IN ACCORDANCE WITH R806.5.5.5.1 (5.1.3) TO A TOTAL

COMPOSITE ROOFING

brandtdesigninc.com OF R-49 MIN 1-HR TYPE-X 5/8" GWB 8843

Design Group

66 Bell Street

Unit 1

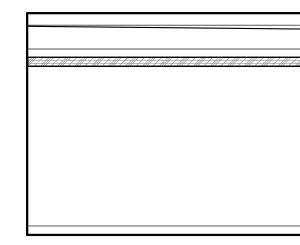
Seattle, WA

98121

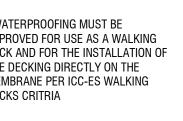
206.239.0850

REGISTERED ARCHITECT

CONCRETE SLAB (THICKNESS PER STRUCT) PLYWOOD SHEATHING PER STRUCT FRAMING PER STRUCT R-30 MIN. BATT INSULATION 1-HR TYPE-X 5/8" GWB

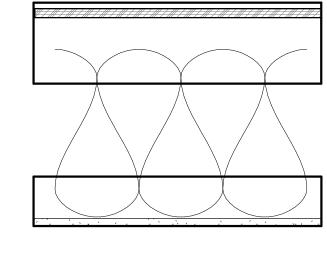


RIPPED FURRING, SLOPE 1/8":12" MEMBRANE* PLYWOOD SHEATHING PER STRUCT FRAMING PER STRUCT 1X CEDAR T&G STAINED



RIPPED FURRING, SLOPE 1/8":12" 'DURADECK' OR APPROVED ALTERNATE MEMBRANE* PLYWOOD SHEATHING PER STRUCT FRAMING PER STRUCT R-30 MIN. BATT INSULATION 1-HR TYPE-X 5/8" GWB

*WATERPROOFING MUST BE APPROVED FOR USE AS A WALKING DECK AND FOR THE INSTALLATION OF THE DECKING DIRECTLY ON THE MEMBRANE PER ICC-ES WALKING



COMPOSITE ROOFING ROOFING MEMBRANE PLYWOOD SHEATHING PER STRUCT PRE-MANUFACTURED TRUSSES PER TRUSS MANUFACTURER R-49 MIN INSULATION (ENSURE 1" AIR GAP FOR VENTILATION) 1-HR TYPE-X 5/8" GWB

COMPOSITE ROOFING

ROOFING MEMBRANE

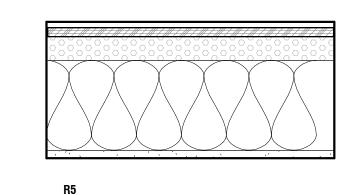
FRAMING PER STRUCT

R-49 MIN INSULATION

COMPOSITE ROOFING

PLYWOOD SHEATHING PER STRUCT

(ENSURE 1" AIR GAP FOR VENTILATION)

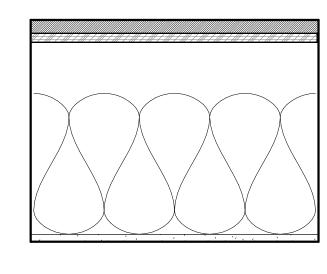


ROOFING MEMBRANE PLYWOOD SHEATHING PER STRUCT FRAMING PER STRUCT R-10 MIN AIR IMPERMEABLE CLASS II VAPOR RETARDER SPRAY FOAM INSULATION INSTALLED IN DIRECT CONTACT TO UNDERSIDE OF SHEATHING AND R-28 MIN AIR PERMEABLE INSULATION APPLIED DIRECTLY TO THE UNDERSIDE OF THE AIR IMPERMEABLE INSULATION IN ACCORDANCE WITH R806.5.5.5.1 (5.1.3) TO A TOTAL OF R-38 MIN 1-HR TYPE-X 5/8" GWB

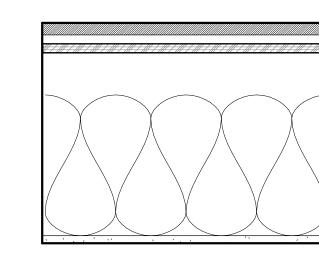
COMPOSITE ROOFING

GENERAL NOTE:

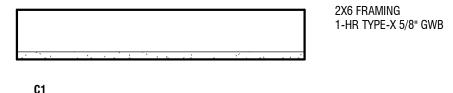
1-HR GYPSUM REQUIRED THROUGHOUT TO MEET APPROVED FIRE CODE ALTERNATE.



FINISH FLOOR (CARPET IN BEDROOMS, HARDWOOD IN HALLWAYS) PLYWOOD SHEATHING PER STRUCT FRAMING PER STRUCT SOUND BATT INSULATION 1-HR TYPE-X 5/8" GWB



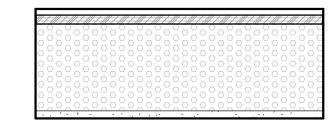
FINISH FLOOR (CARPET IN BEDROOMS, HARDWOOD IN HALLWAYS) PLYWOOD SHEATHING PER STRUCT FRAMING PER STRUCT R-30 MIN. BATT INSULATION 1-HR TYPE-X 5/8" GWB











R2.2

ROOFING MEMBRANE PLYWOOD SHEATHING PER STRUCT FRAMING PER STRUCT AIR-IMPERMEABLE CLASS II VAPOR RETARDER SPRAY FOAM INSULATION INSTALLED IN DIRECT CONTACT TO UNDERSIDE OF SHEATHING IN ACCORDANCE WITH R806.5.5.5.1 (5.1.1) & R806.5.5.5.3 TO A TOTAL OF R-38 MIN 1-HR TYPE-X 5/8" GWB

PERMIT SET

%

9/17/21 DATE: D (24X36)

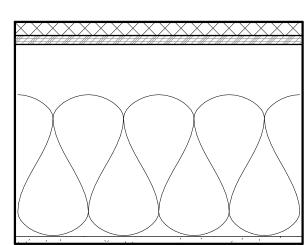
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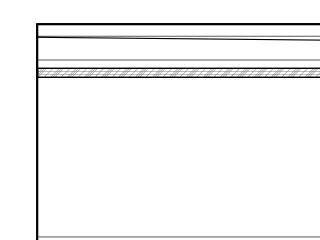
DRAWN BY: CHECKED BY:

ASSEMBLY DETAILS -HORIZONTAL

1 1/2" = 1'-0"

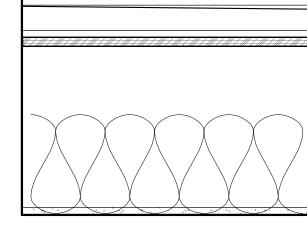
CONCRETE SLAB W/ RADIANT HEATING (THICKNESS PER STRUCT) VAPOR BARRIER R-10 RIGID INSULATION 4" FREE DRAINING MATERIAL



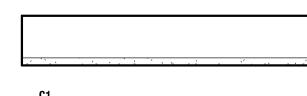


'DURADECK' OR APPROVED ALTERNATE

*WATERPROOFING MUST BE APPROVED FOR USE AS A WALKING DECK AND FOR THE INSTALLATION OF THE DECKING DIRECTLY ON THE MEMBRANE PER ICC-ES WALKING DECKS CRITRIA



DECKS CRITRIA



General Structural Notes

THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS

CRITERIA

1. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE INTERNATIONAL BUILDING CODE (2018 EDITION).

3. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION. ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATION, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK.

4. PRIMARY STRUCTURAL ELEMENTS NOT DIMENSIONED ON THE STRUCTURAL PLANS AND DETAILS SHALL BE LOCATED BY THE ARCHITECTURAL PLANS AND DETAILS. VERTICAL DIMENSION CONTROL IS DEFINED BY THE ARCHITECTURAL WALL SECTIONS, BUILDING SECTION, AND PLANS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN BOTH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE CONTRACTORS WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES TO THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.

6. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS. CONFORM TO ASCE 37-14 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION".

7. CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.

8. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. ALL TYPICAL NOTES AND DETAILS SHOWN ON DRAWINGS SHALL APPLY, UNLESS NOTED OTHERWISE. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS BUT SHALL STILL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS. WHERE TYPICAL DETAILS ARE NOTED ON THE PLANS, THE SPECIFIED TYPICAL DETAIL SHALL BE USED. WHERE NO TYPICAL DETAIL IS NOTED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHOOSE THE APPROPRIATE TYPICAL DETAIL FROM THOSE PROVIDED OR REQUEST ADDITIONAL INFORMATION. THE CONTRACTOR SHALL SUBMIT ALL PROPOSED ALTERNATE TYPICAL DETAILS TO THOSE PROVIDED WITH RELATED CALCULATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO SHOP DRAWING PRODUCTION AND FIELD USE.

9. ALL STRUCTURAL SYSTEMS, WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED, SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.

10. SHOP DRAWINGS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS.

STRUCTURAL STEEL
PRE-FABRICATED ASSEMBLIES (INCLUDING PANELIZED SYSTEMS)

11. SHOP DRAWING REVIEW: DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD, THEREFORE MUST BE VERIFIED BY THE CONTRACTOR. CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY ENGINEER OF RECORD. CONTRACTOR SHALL REVIEW DRAWINGS FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND OPERATIONS OF CONSTRUCTION, AND ALL SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO. SUBMITTALS SHALL INCLUDE A REPRODUCIBLE AND ONE COPY; REPRODUCIBLE WILL BE MARKED AND RETURNED WITHIN TWO WEEKS OF RECEIPT WITH A NOTATION INDICATING THAT THE SUBMITTAL HAS BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE SUBMITTED ITEMS SHALL NOT BE INSTALLED UNTIL THEY HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS. THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT, BY INDICATING WHICH MATERIAL IS INTENDED TO BE FURNISHED AND INSTALLED AND BY DETAILING THE INTENDED FABRICATION AND INSTALLATION METHODS. IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS ARE DISCOVERED EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.

12. SHOP DRAWINGS OF DESIGN BUILD COMPONENTS INCLUDING CANOPIES, BALCONIES, COLD FORM STEEL FRAMING, TEMPORARY SHORING, CURTAIN WALL SYSTEMS, SKYLIGHT FRAMES, PREFABRICATED STAIR SYSTEMS, EXTERIOR CLADDING, AND PRE-ENGINEERED SYSTEMS SHALL BE STAMPED AND SIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF WASHINGTON. SHOP DRAWINGS SHALL BE APPROVED BY THE COMPONENT DESIGNER PRIOR TO REVIEW OF THE ARCHITECT OR ENGINEER OF RECORD FOR GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE COMPONENT DESIGNER IS RESPONSIBLE FOR CODE CONFORMANCE AND ALL NECESSARY CONNECTIONS NOT SPECIFICALLY CALLED OUT ON ARCHITECTURAL OR STRUCTURAL DRAWINGS. SHOP DRAWINGS SHALL INDICATE MAGNITUDE AND DIRECTION OF ALL LOADS IMPOSED ON BASIC STRUCTURE. DESIGN CALCULATIONS SHALL BE SUBMITTED WITH THE SHOP DRAWINGS.

13. DEFERRED SUBMITTALS: SHOP DRAWINGS AND CALCULATIONS OF DEFERRED SUBMITTAL COMPONENTS SHALL BE STAMPED AND SIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF WASHINGTON AND SHALL BE APPROVED BY THE COMPONENT DESIGNER PRIOR TO REVIEW BY THE ARCHITECT OR ENGINEER OF RECORD FOR GENERAL CONFORMANCE. ALL NECESSARY CONNECTIONS NOT SPECIFICALLY CALLED OUT ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE INCLUDED. SHOP DRAWINGS SHALL INCLUDE THE MAGNITUDE AND DIRECTION OF ALL LOADS IMPOSED ON THE BASIC STRUCTURE. DESIGN CALCULATIONS SHALL ACCOMPANY ALL DEFERRED SUBMITTALS. THE ARCHITECT OR CONTRACTOR SHALL FORWARD DEFERRED SUBMITTALS TO THE BUILDING OFFICIAL WHERE REQUIRED.

DEFERRED SUBMITTAL BUILDING COMPONENTS FOR THIS PROJECT SHALL INCLUDE:

PREFABRICATED CONNECTOR PLATE WOOD ROOF TRUSSES

GEOTECHNICAL

14. FOUNDATION NOTES: SUBGRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION, AND FILLING REQUIREMENTS, SHALL CONFORM STRICTLY WITH RECOMMENDATIONS GIVEN IN THE SOILS REPORT OR AS DIRECTED BY THE SOILS ENGINEER. FOOTINGS SHALL BEAR ON SOLID UNDISTURBED EARTH OR COMPACTED STRUCTURAL FILL AT LEAST 18" BELOW LOWEST ADJACENT FINISHED GRADE. FOOTING DEPTHS/ELEVATIONS SHOWN ON PLANS (OR IN DETAILS) ARE MINIMUM AND FOR GUIDANCE ONLY; THE ACTUAL ELEVATIONS OF FOOTINGS MUST BE ESTABLISHED BY THE CONTRACTOR IN THE FIELD WORKING WITH THE TESTING LAB AND SOILS ENGINEER. BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE AS NOTED IN THE SOILS REPORT.

SOILS REPORT REFERENCE:
GEOTECHNICAL ENGINEERING STUDY
FILE NO. 21-004
9611 SE 72ND ST
MERCER ISLAND, WA

PREPARED BY PANGEO ON SEPT. 7, 2021

QUALITY ASSURANCE

15. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND SECTIONS 110 AND 1705 OF THE INTERNATIONAL BUILDING CODE BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE ARCHITECT, AND RETAINED BY THE BUILDING OWNER. THE ARCHITECT, STRUCTURAL ENGINEER, AND BUILDING DEPARTMENT SHALL BE FURNISHED WITH COPIES OF ALL INSPECTION AND TEST RESULTS. SPECIAL INSPECTION OF THE FOLLOWING TYPES OF CONSTRUCTION IS REQUIRED UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL FABRICATION AND ERECTION
WOOD FRAMING
WOOD TRUSSES GREATER THAN 5' DEEP OR 60' LONG
PER AISC 360
PER 1705. 1. 1,
1705. 12. 1
PER 1705. 5. 2

PERIODIC INSPECTION: INSPECTION SHALL BE PERFORMED AT INTERVALS NECESSARY TO CONFIRM THAT WORK REQUIRING SPECIAL INSPECTION IS IN COMPLIANCE WITH REQUIREMENTS.

CONTINUOUS INSPECTION: INSPECTOR SHALL BE ONSITE AND OBSERVE THE WORK REQUIRING INSPECTION AT ALL TIMES THAT WORK IS PERFORMED.

16. STRUCTURAL OBSERVATION SHALL BE PERFORMED IN ACCORDANCE WITH SECTIONS 1704.6 OF THE INTERNATIONAL BUILDING CODE FOR THE FOLLOWING BUILDING ELEMENTS:

LIGHT FRAMED SHEAR WALLS HOLDDOWNS

STRUCTURAL STEEL CONSTRUCTION

THE CONTRACTOR SHALL PROVIDE THE ENGINEER OF RECORD ADEQUATE NOTICE TO SCHEDULE APPROPRIATE SITE VISITS FOR STRUCTURAL OBSERVATION.

STRUCTURAL OBSERVATION MEANS THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM, FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS, AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED BY SECTION 110, 1705, OR OTHER SECTIONS OF THE INTERNATIONAL BUILDING CODE.

THE OWNER SHALL EMPLOY THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, TO PERFORM STRUCTURAL OBSERVATION. OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER'S REPRESENTATIVE, SPECIAL INSPECTOR, CONTRACTOR, AND THE BUILDING OFFICIAL. THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFYING ANY REPORTED DEFICIENCIES WHICH, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.

CONCRETE

- 17. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH ACI 301, INCLUDING TESTING PROCEDURES. CONCRETE SHALL ATTAIN A 28-DAY STRENGTH OF f'c = 3,000 PSI AND MIX SHALL CONTAIN NOT LESS THAN 5-1/2 SACKS OF CEMENT PER CUBIC YARD AND SHALL BE PROPORTIONED TO PRODUCE A SLUMP OF 5" OR LESS. REQUIRED CONCRETE STRENGTH IS BASED ON THE DURABILITY REQUIREMENTS OF SECTION 1904 OF THE IBC. DESIGN STRENGTH IS f'c = 2,500 PSI
- 18. ALL CONCRETE WITH SURFACES EXPOSED TO WEATHER OR STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260, C494, AND C618. TOTAL AIR CONTENT FOR FROST-RESISTANT CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318-14. TABLE 19. 3. 2. 1 MODERATE EXPOSURE. F1.
- 19. REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 60, FY = 60,000 PSI. EXCEPTIONS: ANY BARS SPECIFICALLY SO NOTED ON THE DRAWINGS SHALL BE GRADE 40, FY = 40,000 PSI. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. SPIRAL REINFORCEMENT SHALL BE DEFORMED WIRE CONFORMING TO ASTM A615, GRADE 60, FY = 60,000 PSI.
- 20. DETAILING OF REINFORCING STEEL (INCLUDING HOOKS AND BENDS) SHALL BE IN ACCORDANCE WITH ACI 315R-18 AND 318-14. LAP ALL CONTINUOUS REINFORCEMENT #5 AND SMALLER 40 BAR DIAMETERS OR 2'-0" MINIMUM. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP CORNER BARS #5 AND SMALLER 40 BAR DIAMETERS OR 2'-0" MINIMUM. LAPS OF LARGER BARS SHALL BE MADE IN ACCORDANCE WITH ACI 318-14, CLASS B. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.

NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER.

21. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

22. CONCRETE WALL REINFORCING--PROVIDE THE FOLLOWING UNLESS DETAILED OTHERWISE:

6" WALLS #4 @ 16 HORIZ. #4 @ 18 VERTICAL 1 CURTAIN 8" WALLS #4 @ 12 HORIZ. #4 @ 18 VERTICAL 1 CURTAIN 10" WALLS #4 @ 18 HORIZ. #4 @ 18 VERTICAL 2 CURTAINS 12" WALLS #4 @ 16 HORIZ. #4 @ 18 VERTICAL 2 CURTAINS

23. CAST-IN-PLACE CONCRETE: SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS OF DOOR AND WINDOW OPENINGS IN ALL CONCRETE WALLS. SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF MISCELLANEOUS MECHANICAL OPENINGS THROUGH CONCRETE WALLS. SEE ARCHITECTURAL DRAWINGS FOR ALL GROOVES, NOTCHES, CHAMFERS, FEATURE STRIPS, COLOR, TEXTURE, AND OTHER FINISH DETAILS AT ALL EXPOSED CONCRETE SURFACES, BOTH CAST-IN-PLACE AND PRECAST.

24. NON-SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (3000 PSI MINIMUM).

ANCHORAGE

- 25. EXPANSION BOLTS INTO CONCRETE SHALL BE "STRONG-BOLT 2" WEDGE ANCHORS AS MANUFACTURED BY THE SIMPSON STRONG TIE COMPANY AND INSTALLED IN STRICT CONFORMANCE TO ICC-ES REPORT NUMBER ESR-3037, INCLUDING MINIMUM EMBEDMENT REQUIREMENTS. BOLTS INTO CONCRETE MASONRY OR BRICK MASONRY UNITS SHALL BE INTO FULLY GROUTED CELLS. PERIODIC SPECIAL INSPECTION IS REQUIRED TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, ANCHOR LOCATION, TIGHTENING TORQUE, HOLE DIMENSIONS, ANCHOR EMBEDMENT, AND ADHERENCE TO THE INSTALLATION INSTRUCTIONS.
- 26. CONCRETE SCREW ANCHORS INTO CONCRETE AND CONCRETE MASONRY UNITS SHALL BE "TITEN HD" HEAVY DUTY SCREW ANCHOR AS MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY, INSTALLED IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-2713 (CONCRETE), NO. ESR-1056 (CMU), INCLUDING MINIMUM EMBEDMENT REQUIREMENTS. SCREW ANCHORS INTO CONCRETE MASONRY UNITS SHALL BE INTO FULLY GROUTED CELLS. SPECIAL INSPECTION IS REQUIRED.

STEEL

27. STRUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE BASED ON:

A. AISC 360-16 AND SECTION 2205. 2 OF THE INTERNATIONAL BUILDING CODE.

B. JUNE 15, 2016 AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AMENDED AS FOLLOWS: AS NOTED IN THE CONTRACT DOCUMENTS, BY THE DELETION OF PARAGRAPH 4. 4. 1, AND REVISE REFERENCE FROM "STRUCTURAL DESIGN DRAWINGS" TO "CONTRACT DOCUMENTS" IN PARAGRAPH 3. 1.

C. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.

28. WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992, FY = 50 KSI. OTHER ROLLED SHAPES INCLUDING PLATES, SHALL CONFORM TO ASTM A36, FY = 36 KSI. STEEL PIPE SHALL CONFORM TO ASTM A-53, TYPE E OR S, GRADE B, Fy = 35 KSI. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE C, FY = 46 KSI (ROUND), FY = 50 KSI (SQUARE AND RECTANGULAR). CONNECTION BOLTS SHALL CONFORM TO ASTM A307.

29. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL SHALL CONFORM TO SECTION 10 OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.

30. ALL STEEL EXPOSED TO THE WEATHER OR IN CONTACT WITH GROUND SHALL BE CORROSION PROTECTED BY GALVANIZATION OR PROVIDED WITH EXTERIOR PAINT SYSTEM, UNLESS OTHERWISE NOTED.

31. SHOP PRIME ALL STEEL EXCEPT

A. STEEL ENCASED IN CONCRETE.
B. SURFACES TO BE WELDED.
C. CONTACT SURFACES AT HIGH-STRENGTH BOLTS.
D. MEMBERS TO BE GALVANIZED.
E. MEMBERS WHICH WILL BE CONCEALED BY INTERIOR FINISHES.
F. SURFACES TO RECEIVE SPRAYED FIREPROOFING.
G. SURFACES TO RECEIVE OTHER SPECIAL SHOP PRIMERS.

32. ALL A-325N CONNECTION BOLTS NEED ONLY BE TIGHTENED TO A SNUG TIGHT CONDITION, DEFINED AS THE TIGHTNESS THAT EXISTS WHEN ALL PLIES IN A JOINT ARE IN FIRM CONTACT. THIS MAY BE ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER USING AN ORDINARY SPUD WRENCH.

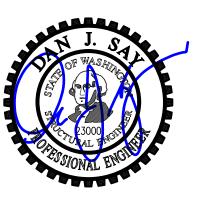
33. ALL ANCHORS EMBEDDED IN MASONRY OR CONCRETE SHALL BE A307 HEADED BOLTS OR A36 THREADED ROD WITH AN ASTM 563 HEAVY HEX NUT TACK WELDED ON THE EMBEDDED END.

34. ALL WELDING SHALL BE IN CONFORMANCE WITH AISC AND AWS STANDARDS AND SHALL BE PERFORMED BY WABO CERTIFIED WELDERS USING E70XX ELECTRODES. ONLY PREQUALIFIED WELDS (AS DEFINED BY AWS) SHALL BE USED. ALL COMPLETE JOINT PENETRATION GROOVE WELDS SHALL BE MADE WITH A FILLER MATERIAL THAT HAS A MINIMUM CVN TOUGHNESS OF 20 FT-LBS AT -20 DEGREES F AND 40 FT - LBS AT 70 DEGREES F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.



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DESIGN:	DMR	
DRAWN:	NHD	
CHECKED:	BDM	
APPROVED:	DJS	

REVISIO	NS:	
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<u></u>	Permit Corrections	Apr. 19, 20
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<u></u>	Permit Corrections 2	Nov. 17, 20
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<u></u>	Permit Corrections 3	Jan. 13, 20

Huber Residence

9611 SE 72nd Street Mercer Island, WA 98040

ARCHITECT:

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66 Bell Street, Unit 1

Seattle, WA 98121
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brandtdesigninc.com

ISSUE:

PERMIT

SHEET TITLE:

General Structural Notes

SCALE:

DATE:
September 14, 2021
PROJECT NO:
01519-2021-06

S1 1

General Structural Notes

THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS

35. FRAMING LUMBER SHALL BE S-DRY, KD, OR MC-19, AND GRADED AND MARKED IN CONFORMANCE WITH WCLIB STANDARD No. 17, GRADING RULES FOR WEST COAST LUMBER, 2018, OR WWPA STANDARD, WESTERN LUMBER GRADING RULES 2017. FURNISH TO THE FOLLOWING MINIMUM STANDARDS:

WOOD

(2X & 3X MEMBERS) HEM-FIR NO. 2 MINIMUM BASE VALUE. Fb = 850 PSI AND BEAMS (4X MEMBERS) DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, Fb = 1000 PSI (INCL. 6X AND LARGER) DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, Fb = 1350 PSI DOUGLAS FIR-LARCH NO. 2 (4X MEMBERS) MINIMUM BASE VALUE, Fc = 1350 PSI

DOUGLAS FIR-LARCH NO. 1 (6X AND LARGER) MINIMUM BASE VALUE, Fc = 1000 PSI

DOUGLAS FIR-LARCH NO. 2 STUDS, PLATES & MISC. FRAMING: OR HEM-FIR NO. 2

36. GLUED LAMINATED MEMBERS SHALL BE FABRICATED IN CONFORMANCE WITH ASTM AND ANSI/AITC STANDARDS. EACH MEMBER SHALL BEAR AN AITC OR APA IDENTIFICATION MARK AND SHALL BE ACCOMPANIED BY AN AITC OR APA CERTIFICATE OF CONFORMANCE. ALL SIMPLE SPAN BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V4. Fb = 2.400 PSI. Fv =265 PSI. ALL CANTILEVERED BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V8. Fb = 2400 PSI. Fv = 265 PSI.

37. MANUFACTURED LUMBER, PSL, LVL, AND LSL SHOWN ON PLAN ARE BASED PRODUCTS MANUFACTURED BY THE WEYERHAEUSER CORPORATION IN ACCORDANCE WITH ICC-ES REPORT ESR-1387. MEMBERS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

PSL (2.0E WS) Fb = 2900 PSI, E = 2000 KSI, Fv = 290 PSI LVL (2. 0E-2600FB WS) Fb = 2600 PSI, E = 2000 KSI, Fv = 285 PSI LSL (1.55E) Fb = 2325 PSI, E = 1550 KSI, Fv = 310 PSI

ALTERNATE MANUFACTURED LUMBER MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER. ALTERNATE MANUFACTURER'S PRODUCTS SHALL BE COMPATIBLE WITH THE JOIST HANGERS AND OTHER HARDWARE SPECIFIED ON PLANS, OR ALTERNATE HANGERS AND HARDWARE SHALL SUBMITTED FOR REVIEW AND APPROVAL. SUBSTITUTED ITEMS SHALL HAVE ICC-ES REPORT APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES.

MANUFACTURED LUMBER PRODUCTS SHALL BE INSTALLED WITH A MOISTURE CONTENT OF 12% OR LESS. THE CONTRACTOR SHALL MAKE PROVISIONS DURING CONSTRUCTION TO PREVENT THE MOISTURE CONTENT OF INSTALLED BEAMS FROM EXCEEDING 12%. EXCESSIVE DEFLECTIONS MAY OCCUR IF MOISTURE CONTENT EXCEEDS THIS VALUE.

- 38. PREFABRICATED PLYWOOD WEB JOIST DESIGN SHOWN ON PLANS IS BASED ON JOISTS MANUFACTURED BY THE WEYERHAEUSER CORPORATION, IN ACCORDANCE WITH ICC-ES REPORT ESR-1157. ALTERNATE PLYWOOD WEB JOIST MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER. ALTERNATE MANUFACTURER'S PRODUCTS SHALL BE COMPATIBLE WITH THE JOIST HANGERS AND OTHER HARDWARE SPECIFIED ON PLANS. OR ALTERNATE HANGERS AND HARDWARE SHALL SUBMITTED FOR REVIEW AND APPROVAL. SUBSTITUTED ITEMS SHALL HAVE ICC-ES REPORT APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES.
- 39. PREFABRICATED CONNECTOR PLATE WOOD ROOF TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH THE "NATIONAL DESIGN STANDARD FOR METAL PLATE-CONNECTED WOOD TRUSS CONSTRUCTION. ANSI/TPI 1" BY THE TRUSS PLATE INSTITUTE FOR THE SPANS AND CONDITIONS SHOWN ON THE PLANS. LOADING SHALL BE AS FOLLOWS:

TOP CHORD LIVE LOAD 25 PSF 15 PSF <u>1</u> TOP CHORD DEAD LOAD BOTTOM CHORD DEAD LOAD 5 PSF 40 PSF TOTAL LOAD

WIND UPLIFT (TOP CHORD) 25 PSF BOTTOM CHORD LIVE LOAD 10 PSF (BOTTOM CHORD LIVE LOAD DOES NOT ACT CONCURRENTLY WITH THE ROOF LIVE LOAD)

WOOD TRUSSES SHALL UTILIZE APPROVED CONNECTOR PLATES (GANGNAIL OR EQUAL). SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION. SUBMITTED DOCUMENTS SHALL BE SIGNED AND STAMPED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON. PROVIDE FOR SHAPES, BEARING POINTS, INTERSECTIONS, HIPS, VALLEYS, ETC., SHOWN ON THE DRAWINGS. EXACT COMPOSITION OF SPECIAL HIP, VALLEY, AND INTERSECTION AREAS (USE OF GIRDER TRUSSES, JACK TRUSSES, STEP-DOWN TRUSSES, ETC.) SHALL BE DETERMINED BY THE MANUFACTURER UNLESS SPECIFICALLY INDICATED ON THE PLANS. PROVIDE ALL TRUSS TO TRUSS AND TRUSS TO GIRDER TRUSS CONNECTION DETAILS AND REQUIRED CONNECTION MATERIALS. PROVIDE FOR ALL TEMPORARY AND PERMANENT TRUSS BRACING AND BRIDGING.

40. PLYWOOD SHEATHING SHALL BE GRADE C-D, EXTERIOR GLUE OR STRUCTURAL II, EXTERIOR GLUE IN CONFORMANCE WITH DOC PS 1 OR PS 2. ORIENTED STRAND BOARD OF EQUIVALENT THICKNESS, EXPOSURE RATING AND PANEL INDEX MAY BE USED IN LIEU OF PLYWOOD.

ROOF SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING 32/16.

FLOOR SHEATHING SHALL BE 3/4" (NOMINAL) WITH SPAN RATING 48/24.

WALL SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING 24/0.

PROVIDE APPROVED PLYWOOD EDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED T&G JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF FLOOR AND ROOF SHEATHING.

REFER TO WOOD FRAMING NOTES BELOW FOR TYPICAL NAILING REQUIREMENTS.

- 41. ALL WOOD IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-TREATED WITH AN APPROVED PRESERVATIVE OR (2) LAYERS OF ASPHALT IMPREGNATED BUILDING PAPER SHALL BE PROVIDED BETWEEN UNTREATED WOOD AND CONCRETE OR MASONRY.
- 42. PRESERVATIVE TREATED WOOD SHALL BE TREATED PER AWPA STANDARD U1 TO THE USE CATEGORY EQUAL TO OR HIGHER THAN THE INTENDED APPLICATION. TREATED WOOD FOR ABOVE GROUND USE SHALL BE TREATED TO AWPA UC3B. WOOD IN CONTINUOUS CONTACT WITH FRESH WATER OR SOIL SHALL BE TREATED TO AWPA UC4A. WOOD FOR USE IN PERMANENT FOUNDATIONS SHALL BE TREATED TO AWPA UC4B.
- 43. FASTENERS AND TIMBER CONNECTORS USED WITH TREATED WOOD SHALL HAVE CORROSION RESISTANCE AS INDICATED IN THE FOLLOWING TABLE, UNLESS OTHERWISE

PROTECTION WOOD TREATMENT CONDITION HAS NO AMMONIA CARRIER INTERIOR DRY G90 GALVANIZED CONTAINS AMMONIA CARRIER INTERIOR DRY G185 OR A185 HOT DIPPED OR CONTINUOUS HOT-GALVANIZED PER ASTM A653 TYPE 304 OR 316 STAINLESS CONTAINS AMMONIA CARRIER INTERIOR WET CONTAINS AMMONIA CARRIER EXTERIOR TYPE 304 OR 316 STAINLESS TYPE 304 OR 316 STAINLESS

INTERIOR DRY CONDITIONS SHALL HAVE WOOD MOISTURE CONTENT LESS THAN 19%. WOOD MOISTURE CONTENT IN OTHER CONDITIONS (INTERIOR WET, EXTERIOR WET, AND EXTERIOR DRY) IS EXPECTED TO EXCEED 19%. CONNECTORS AND THEIR FASTENERS SHALL BE THE SAME MATERIAL. COMPLY WITH THE TREATMENT MANUFACTURERS RECOMMENDATIONS FOR PROTECTION OF METAL.

44. TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED IN THEIR CATALOG NUMBER C-C-2019. EQUIVALENT DEVICES BY OTHER MANUFACTURERS MAY BE SUBSTITUTED, PROVIDED THEY HAVE ICC-ES APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. PROVIDE NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER FOR MAXIMUM LOAD CARRYING CAPACITY. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

ALL 2X JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "LUS" SERIES JOIST HANGERS. ALL TJI JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "ITS" SERIES JOIST HANGERS. ALL DOUBLE-JOIST BEAMS SHALL BE CONNECTED TO FLUSH BEAMS WITH "MIT" SERIES JOIST HANGERS.

WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, PLACE ONE-HALF OF THE NAILS OR BOLTS IN EACH MEMBER.

ALL SHIMS SHALL BE SEASONED AND DRIED AND THE SAME GRADE (MINIMUM)AS MEMBERS CONNECTED.

45. WOOD FASTENERS

A. NAIL SIZES SPECIFIED ON DRAWINGS ARE BASED ON THE FOLLOWING SPECIFICATIONS:

SIZE	LENGTH	DIAMETE
6d	2"	0. 113"
8d	2-1/2"	0. 131"
10d	3"	0. 148"
12d	3-1/4"	0. 148"
16d B0X	3-1/2"	0. 135"

IF CONTRACTOR PROPOSES THE USE OF ALTERNATE NAILS. THEY SHALL SUBMIT NAIL SPECIFICATIONS TO THE STRUCTURAL ENGINEER (PRIOR TO CONSTRUCTION) FOR REVIEW AND APPROVAL.

NAILS - PLYWOOD (APA RATED SHEATHING) FASTENERS TO FRAMING SHALL BE DRIVEN FLUSH TO FACE OF SHEATHING WITH NO COUNTERSINKING PERMITTED. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES WITH THE MEMBER AND STARTED 1/3 THE LENGTH OF THE NAIL FROM THE MEMBER END.

B. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG BOLTS BEARING ON WOOD. INSTALLATION OF LAG BOLTS SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION WITH A LEAD BORE HOLE OF 60 TO 70 PERCENT OF THE SHANK DIAMETER. LEAD HOLES ARE NOT REQUIRED FOR 3/8" AND SMALLER LAG SCREWS.

46. NOTCHES AND HOLES IN WOOD FRAMING:

- A. NOTCHES ON THE ENDS OF SOLID SAWN JOISTS AND RAFTERS SHALL NOT EXCEED ONE-FOURTH THE JOIST DEPTH. NOTCHES IN THE TOP OR BOTTOM OF SOLID SAWN JOISTS SHALL NOT EXCEED ONE-SIXTH THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE THIRD OF THE SPAN. HOLES BORED IN SOLID SAWN JOISTS AND RAFTERS SHALL NOT BE WITHIN 2 INCHES OF THE TOP OR BOTTOM OF THE JOIST, AND THE DIAMETER OF ANY SUCH HOLE SHALL NOT EXCEED ONE-THIRD THE DEPTH OF THE JOIST.
- B. IN EXTERIOR WALLS AND BEARING PARTITIONS, ANY WOOD STUD IS PERMITTED TO BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 PERCENT OF ITS WIDTH. A HOLE NOT GREATER IN DIAMETER THAN 40 PERCENT OF THE STUD WIDTH IS PERMITTED TO BE BORED IN ANY WOOD STUD. IN NO CASE SHALL THE EDGE OF THE BORED HOLE BE NEARER THAN 5/8 INCH TO THE EDGE OF THE STUD. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF STUD AS A CUT OR NOTCH.
- C. NOTCHES AND HOLES IN MANUFACTURED LUMBER AND PREFABRICATED PLYWOOD WEB JOISTS SHALL BE PER THE MANUFACTURERS RECOMMENDATIONS UNLESS OTHERWISE NOTED.

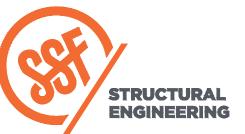
- 47. WOOD FRAMING NOTES--THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE PLANS:
- A. ALL WOOD FRAMING DETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE INTERNATIONAL BUILDING CODE, THE AITC "TIMBER CONSTRUCTION MANUAL" AND THE AWC "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION". MINIMUM NAILING, UNLESS OTHERWISE NOTED. SHALL CONFORM TO IBC TABLE 2304.10.1. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS.
- B. WALL FRAMING: REFER ARCHITECTURAL DRAWINGS FOR THE SIZE OF ALL WALLS. ALL STUDS SHALL BE SPACED AT 16" O.C. UNO. TWO STUDS MINIMUM SHALL BE PROVIDED AT THE END OF ALL WALLS AND AT EACH SIDE OF ALL OPENINGS. AND AT BEAM OR HEADER BEARING LOCATIONS. TWO 2x8 HEADERS SHALL BE PROVIDED OVER ALL OPENINGS NOT OTHERWISE NOTED. SOLID BLOCKING FOR WOOD COLUMNS SHALL BE PROVIDED THROUGH FLOORS TO SUPPORTS BELOW. PROVIDE CONTINUOUS SOLID BLOCKING AT MID-HEIGHT OF ALL STUD WALLS OVER 10'-0" IN HEIGHT.

ALL WALLS SHALL HAVE A SINGLE BOTTOM PLATE AND A DOUBLE TOP PLATE. END NAIL TOP PLATE TO EACH STUD WITH TWO 16d NAILS, AND TOENAIL OR END NAIL EACH STUD TO BOTTOM PLATE WITH TWO 16d NAILS. FACE NAIL DOUBLE TOP PLATE WITH 16d @ 12" O.C.. LAP TOP PLATES AT JOINTS A MINIMUM 4'-0" AND NAIL WITH TWELVE 16d NAILS @ 4" O.C. EACH SIDE JOINT.

ALL STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING BELOW WITH TWO ROWS OF 16d NAILS @ 12" ON-CENTER, OR ATTACHED TO CONCRETE BELOW WITH 5/8" DIAMETER ANCHOR BOLTS @ 4'-0" ON-CENTER EMBEDDED 7" MINIMUM, UNLESS INDICATED OTHERWISE. INDIVIDUAL MEMBERS OF BUILT-UP POSTS SHALL BE NAILED TO EACH OTHER WITH TWO ROWS OF 16d @12' ON-CENTER. UNLESS OTHERWISE NOTED, GYPSUM WALLBOARD SHALL BE FASTENED TO THE INTERIOR SURFACE OF ALL STUDS AND PLATES WITH NO. 6 X 1-1/4" TYPE S OR W SCREWS @ 8" ON-CENTER. UNLESS INDICATED OTHERWISE, 1/2" (NOMINAL) APA RATED SHEATHING (SPAN RATING 24/0) SHALL BE NAILED TO ALL EXTERIOR SURFACES WITH 8d NAILS @ 6" ON-CENTER AT PANEL EDGES AND TOP AND BOTTOM PLATES (BLOCK UN-SUPPORTED EDGES)AND TO ALL INTERMEDIATE STUDS AND BLOCKING WITH 8d NAILS @ 12" ON-CENTER ALLOW 1/8" SPACING AT ALL PANEL EDGES AND PANEL ENDS.

C. FLOOR AND ROOF FRAMING: PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS THAT EXTEND OVER MORE THAN HALF THE JOIST LENGTH AND AROUND ALL OPENINGS IN FLOORS OR ROOFS UNLESS OTHERWISE NOTED. PROVIDE SOLID BLOCKING BETWEEN RAFTERS AND JOISTS AT ALL BEARING POINTS WITH A MINIMUM OF (3) 16d TOE NAILS EACH END. TOE-NAIL JOISTS TO SUPPORTS WITH TWO 16d NAILS. ATTACH TIMBER JOISTS TO FLUSH HEADERS OR BEAMS WITH SIMPSON METAL JOIST HANGERS IN ACCORDANCE WITH NOTES ABOVE. NAIL ALL MULTI JOIST BEAMS TOGETHER WITH TWO ROWS 16d @ 12" ON-CENTER.

UNLESS OTHERWISE NOTED ON THE PLANS, PLYWOOD ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH GRAIN PERPENDICULAR TO SUPPORTS AND NAILED AT 6" ON-CENTER WITH 8d NAILS TO FRAMED PANEL EDGES, STRUTS AND OVER STUD WALLS AS SHOWN ON PLANS AND @ 12" ON-CENTER TO INTERMEDIATE SUPPORTS. PROVIDE APPROVED PLYWOOD EDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED T&G JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF FLOOR AND ROOF SHEATHING TOENAIL BLOCKING TO SUPPORTS WITH 16d @ 12" ON-CENTER, MINIMUM TWO NAILS PER BLOCK, UNLESS OTHERWISE NOTED.



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REVISIO	DNS:	
1	Permit Corrections	Apr. 19, 20
2	Permit Corrections 2	Nov. 17, 20
3	Permit Corrections 3	Jan. 13, 20

Huber Residence

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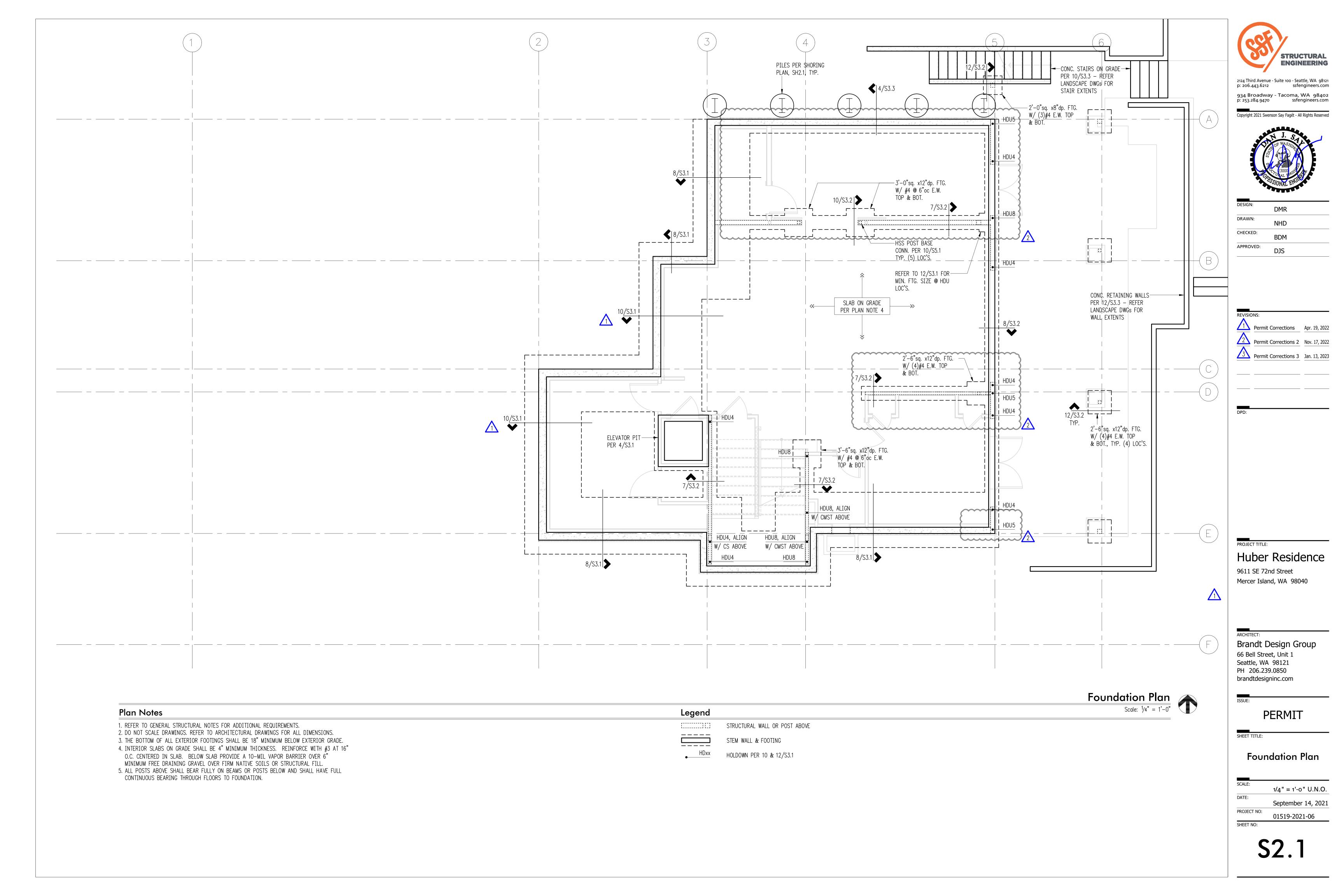
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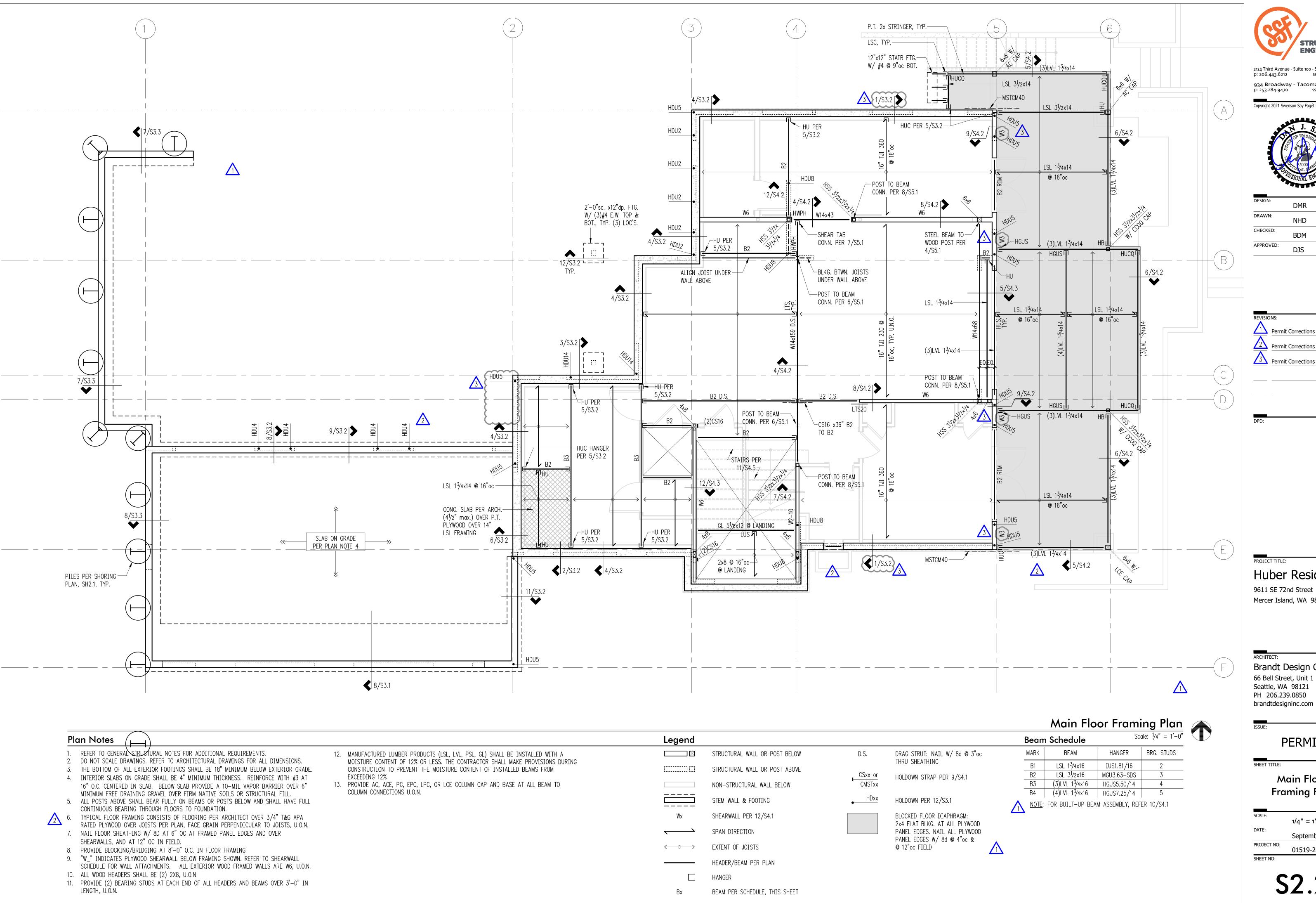
General Structural Notes

DATE:

SHEET NO:

September 14, 2021 PROJECT NO: 01519-2021-06

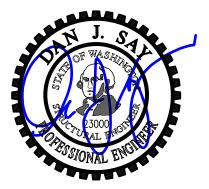




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PROJECT TITLE:

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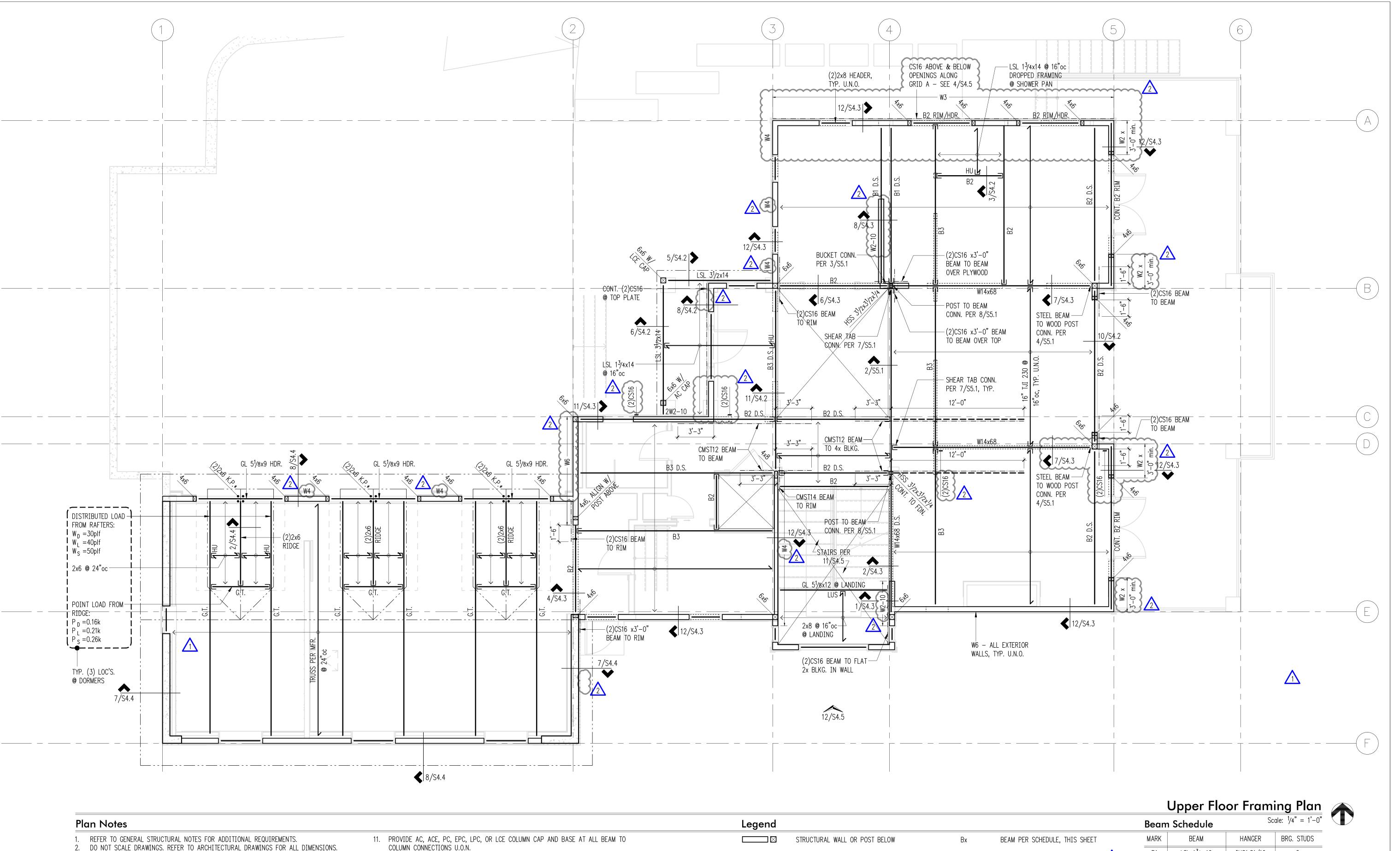
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Main Floor Framing Plan

1/4" = 1'-0" U.N.O. September 14, 2021

01519-2021-06



12. TYPICAL ROOF FRAMING CONSISTS OF ROOFING PER ARCHITECTURAL DRAWINGS OVER

13. NAIL ROOF SHEATHING WITH 8D AT 6" O.C. AT ALL FRAMED PANEL EDGES AND OVER

1/2" CDX OR 7/16" O.S.B. APA RATED SHEATHING (EXPOSURE 1), FACE GRAIN

PERPENDICULAR TO FRAMING PER PLAN, U.O.N.

14. PROVIDE H1 AT ENDS OF ALL ROOF FRAMING, U.O.N.

SHEARWALLS, AND AT 12" O.C. FIELD.

ALL POSTS ABOVE SHALL BEAR FULLY ON BEAMS OR POSTS BELOW AND SHALL HAVE FULL

RATED PLYWOOD OVER JOISTS PER PLAN, FACE GRAIN PERPENDICULAR TO JOISTS, U.O.N.

EDGES. NAIL FLOOR SHEATHING W/ 10D AT 2" OC AT FRAMED PANEL EDGES AND OVER

SCHEDULE FOR WALL ATTACHMENTS. ALL EXTERIOR WOOD FRAMED WALLS ARE W6, U.O.N.

MOISTURE CONTENT OF 12% OR LESS. THE CONTRACTOR SHALL MAKE PROVISIONS DURING

5. ENTIRE FLOOR DIAPHRAGM TO BE BLOCKED WITH 2X4 BLOCKING AT ALL PLYWOOD PANEL

7. "W_" INDICATES PLYWOOD SHEARWALL BELOW FRAMING SHOWN. REFER TO SHEARWALL

10. MANUFACTURED LUMBER PRODUCTS (LSL, LVL, PSL, GL) SHALL BE INSTALLED WITH A

CONSTRUCTION TO PREVENT THE MOISTURE CONTENT OF INSTALLED BEAMS FROM

9. PROVIDE (2) BEARING STUDS AT EACH END OF ALL HEADERS AND BEAMS OVER 3'-0" IN

TYPICAL FLOOR FRAMING CONSISTS OF FLOORING PER ARCHITECT OVER 3/4" T&G APA
RATED PLYWOOD OVER HOISTS DED DIAM FACE ODATAL DESCRIPTION.

CONTINUOUS BEARING THROUGH FLOORS TO FOUNDATION.

6. PROVIDE BLOCKING/BRIDGING AT 8'-0" O.C. IN FLOOR FRAMING

SHEARWALLS, AND AT 12" OC IN FIELD.

8. ALL WOOD HEADERS SHALL BE (2) 2X8, U.O.N

LENGTH, U.O.N.

EXCEEDING 12%.

LSL 1³/4x16 IUS1.81/16 DRAG STRUT: NAIL W/ 10d @ 2"oc 1 STRUCTURAL WALL OR POST ABOVE LSL 3¹/2x16 MGU3.63-SDS THRU SHEATHING (3)LVL 1³/4x16 HGUS5.50/14 NON-STRUCTURAL WALL BELOW 4 B4 (4)LVL 1³/4x16 HGUS7.25/14 HOLDOWN STRAP PER 9/S4.1 NOTE: FOR BUILT-UP BEAM ASSEMBLY, REFER 10/S4.1 SHEARWALL PER 12/S4.1 WESTERN CEDAR 1 SPAN DIRECTION EXTENT OF JOISTS HEADER/BEAM PER PLAN HANGER GIRDER TRUSS KING POST PER PLAN W/ LCE CAP & K.P.∗ INV. AC BASE

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PROJECT TITLE: **Huber Residence**

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ARCHITECT:

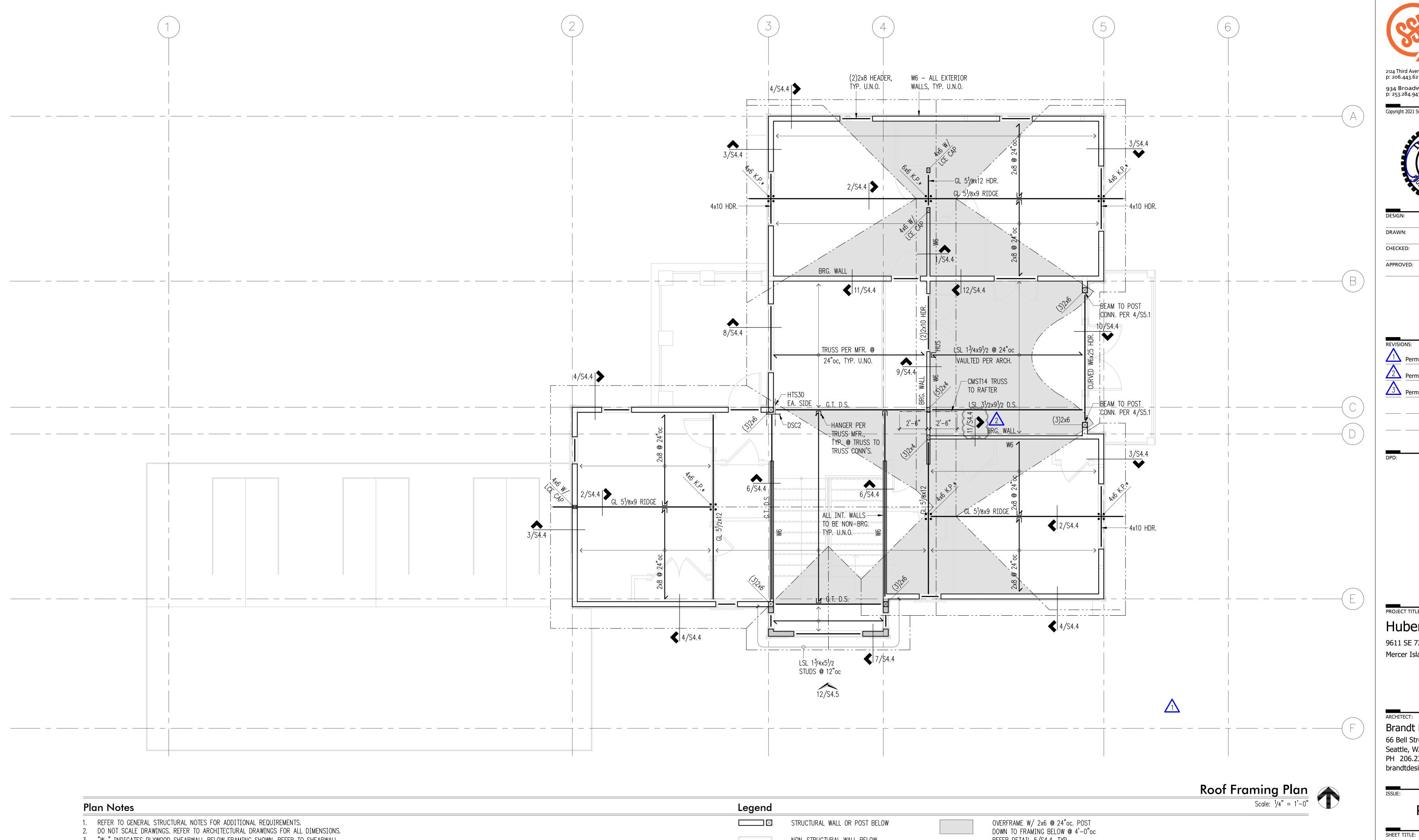
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SHEET TITLE: Upper Floor

Framing Plan

1/4" = 1'-0" U.N.O. September 14, 2021 PROJECT NO: 01519-2021-06 SHEET NO:



3. "W_" INDICATES PLYWOOD SHEARWALL BELOW FRAMING SHOWN. REFER TO SHEARWALL REFER DETAIL 5/S4.4, TYP. NON-STRUCTURAL WALL BELOW SCHEDULE FOR WALL ATTACHMENTS. ALL EXTERIOR WOOD FRAMED WALLS ARE W6, U.O.N. DRAG STRUT: NAIL W/ 8d @ 3"oc 4. ALL WOOD HEADERS SHALL BE (2) 2X8, U.O.N SHEARWALL PER 12/S4.1 THRU SHEATHING 5. PROVIDE (2) BEARING STUDS AT EACH END OF ALL HEADERS AND BEAMS OVER 3'-0" IN SPAN DIRECTION LENGTH, U.O.N. 6. MANUFACTURED LUMBER PRODUCTS (LSL, LVL, PSL, GL) SHALL BE INSTALLED WITH A EXTENT OF JOISTS MOISTURE CONTENT OF 12% OR LESS. THE CONTRACTOR SHALL MAKE PROVISIONS DURING CONSTRUCTION TO PREVENT THE MOISTURE CONTENT OF INSTALLED BEAMS FROM HEADER/BEAM PER PLAN EXCEEDING 12%. 7. PROVIDE AC, ACE, PC, EPC, LPC, OR LCE COLUMN CAP AND BASE AT ALL BEAM TO HANGER COLUMN CONNECTIONS U.O.N. 8. TYPICAL ROOF FRAMING CONSISTS OF ROOFING PER ARCHITECTURAL DRAWINGS OVER 1/2" CDX OR 7/16" O.S.B. APA RATED SHEATHING (EXPOSURE 1), FACE GRAIN G.T. GIRDER TRUSS PERPENDICULAR TO FRAMING PER PLAN, U.O.N. 9. NAIL ROOF SHEATHING WITH 8D AT 6" O.C. AT ALL FRAMED PANEL EDGES AND OVER K.P.* KING POST PER PLAN W/ LCE CAP & INV. AC BASE SHEARWALLS, AND AT 12" O.C. FIELD.

10. PROVIDE H1 AT ENDS OF ALL ROOF FRAMING, U.O.N.

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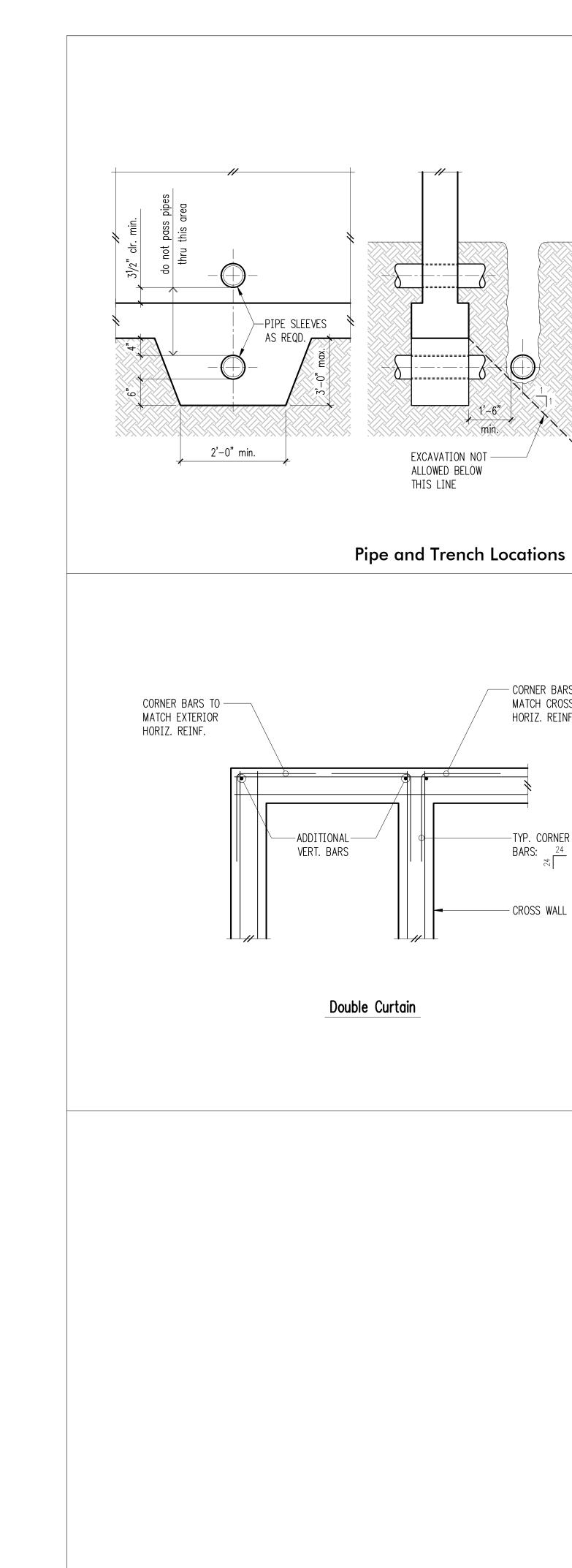
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Roof Framing

Plan

1/4" = 1'-0" U.N.O. September 14, 2021 PROJECT NO:

01519-2021-06 SHEET NO:



- CORNER BARS TO

HORIZ. REINF.

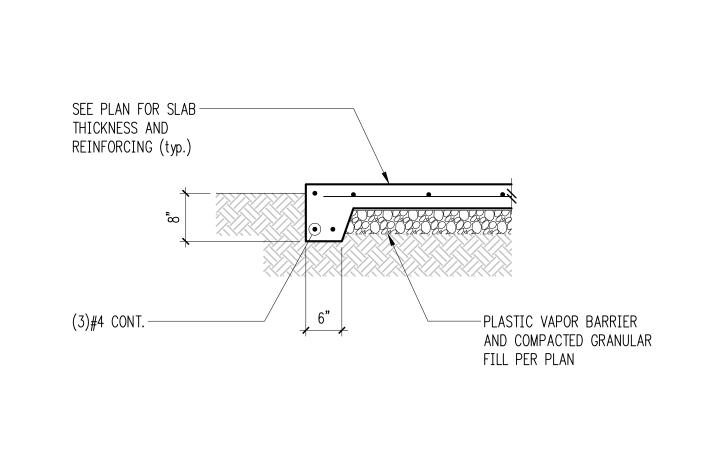
-TYP. CORNER

- CROSS WALL

MATCH CROSS WALL

CORNER BARS TO -

MATCH HORIZ. REINF.



-ADDITIONAL-

VERT. BARS

#4 @ 12"oc HORIZ. E.F.-

#4 @ 18"oc VERT. I.F.

#7 @ 8"oc VERT. O.F.

PLACE SLAB PRIOR TO

BACKFILLING WALL

SLAB ON GRADE—

MATERIAL

PER PLAN

PROVIDE FREE-DRAINING-

Single Curtain

10"

4'-9"

Typical Corner Bars at Concrete Walls and Footings



- CORNER BARS TO

HORIZ. REINF.

(alt. hooks)

-TYP. CORNER

- CROSS WALL

TRAFFIC SURCHARGE = 250psf

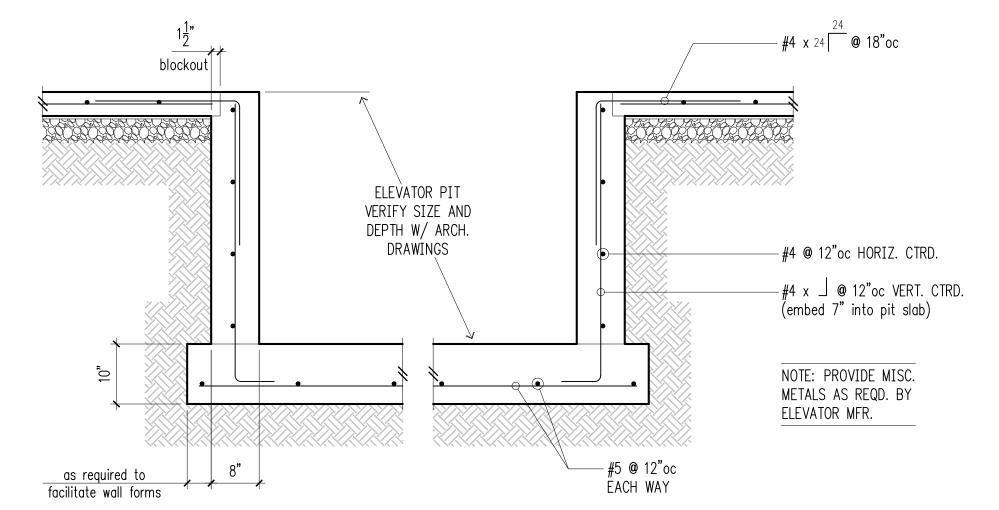
FOOTING DRAIN

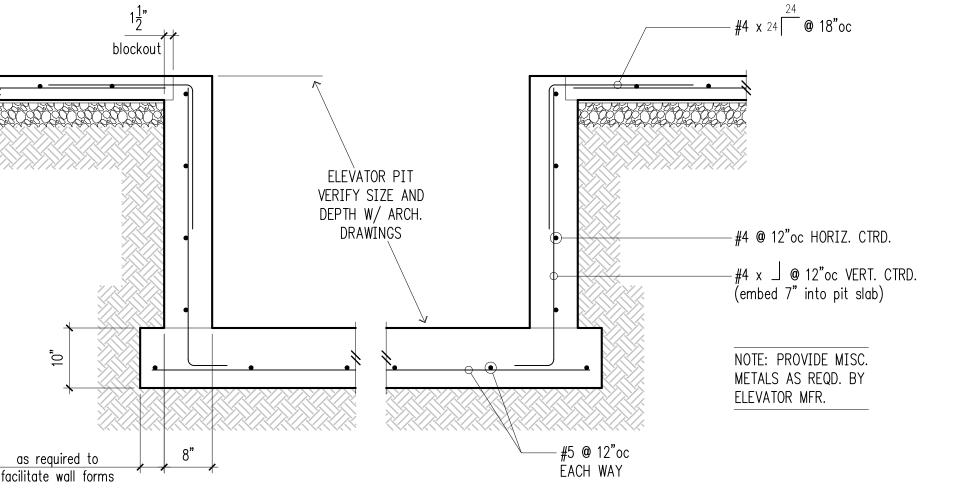
-#6 **@** 12"oc TOP

-(12)#6 LONG.

BY OTHERS

MATCH CROSS WALL







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Typical Elevator Pit

REVISIONS:

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__LEVEL BACKFILL AT 10" STEM WALLS, PROVIDE #4 @ 18"oc E.W. INSIDE FACE PROVIDE FREE-DRAINING-MATERIAL PLACE SLAB PRIOR TO - 1¹/2" clr. @ #4's & #5's 2" clr. @ #6's BACKFILLING WALL SLAB ON GRADE-- FOOTING DRAIN PER PLAN BY OTHERS B2

Retaining Wall Schedule W/ Slak

	H (ft.)	B1	ts	B2	tf	Stem Reinforcing		Footing Reinforcing	
	11 (11.)					Vert.	Horiz.	Тор	Longit.
	3'-0"	5"	8"	5"	8"	#4 @ 18"oc	#4 @ 12"oc	_	(2)#4
	4'-0"	1'-0"	8"	5"	8"	#4 @ 18"oc	#4 @ 12"oc	_	(2)#4
	6'-0"	2'-0"	8"	5"	10"	#5 @ 12"oc	#4 @ 12"oc	#5 @ 12"oc	(4)#5
	8'-0"	2'-9"	8"	1'-0"	12"	#5 @ 12"oc	#4 @ 12"oc	#5 @ 12"oc	(6)#5
	10'-0"	3'-6"	8"	1'-3"	18"	#7 @ 12"oc	#4 @ 12"oc	#6 @ 12"oc	(8)#5
_	12'-0"	4'-0"	10"	1'-8"	18"	#7 @ 8"oc	#4 @ 12"oc	#6 @ 12"oc	(10)#6

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Typical Concrete **Details**

3/4" = 1'-0" U.N.O. September 14, 2021 PROJECT NO: 01519-2021-06 SHEET NO:

S3.1

PANEL EDGE —— NAILING OVER PANEL EDGE — NAILING OVER HOLDOWN POST -HOLDOWN POST HOLDOWN POST -HOLDOWN POST PER SCHEDULE PER PLAN SHEARWALL-SHEARWALL-—HEADED BOLT OR PER PLAN PER PLAN ALL-THREAD W/ HDU HOLDOWN WASHER & NUT HDU HOLDOWN PER SCHEDULE -MIN #4 @ 12"oc -(2)#4 TOP CONT. CONT. E.W. TOP & BOT. -STEM WALL W/ REINF. PER GÉN. NOTES (u.n.o.) 3D min. **HDU Into Footing Option HDU Into Stem Wall Option**

HDU2-SDS2.5 HDU4-SDS2.5 HDU5-SDS2.5 (14)SDS ¹/4"x2¹/2" HDU8-SDS2.5 (20)SDS 1/4"x21/2" HDU11-SDS2.5 (30)SDS 1/4"x21/2" HDU14-SDS2.5 (36)SDS 1/4"x21/2"

① MINIMUM SIZE OF POST AT END OF WALL UNLESS OTHERWISE NOTED ON FRAMING PLANS.

Holdown Schedule

Screws

(6)SDS ¹/4"x2¹/2"

(10)SDS ¹/4"x2¹/2"

Plan

Mark

Typical HDU Holdown 12

Anchor Min. A.B. Embed (D) Holdown Post ①

if 2x4 if 2x6

(2) 2x6

4x6

4x6

6x6

6x6

6x6

(2) 2x4

4x4

4x8

Stem Wall

SB⁵/8x24

SSTB28

SB1x30

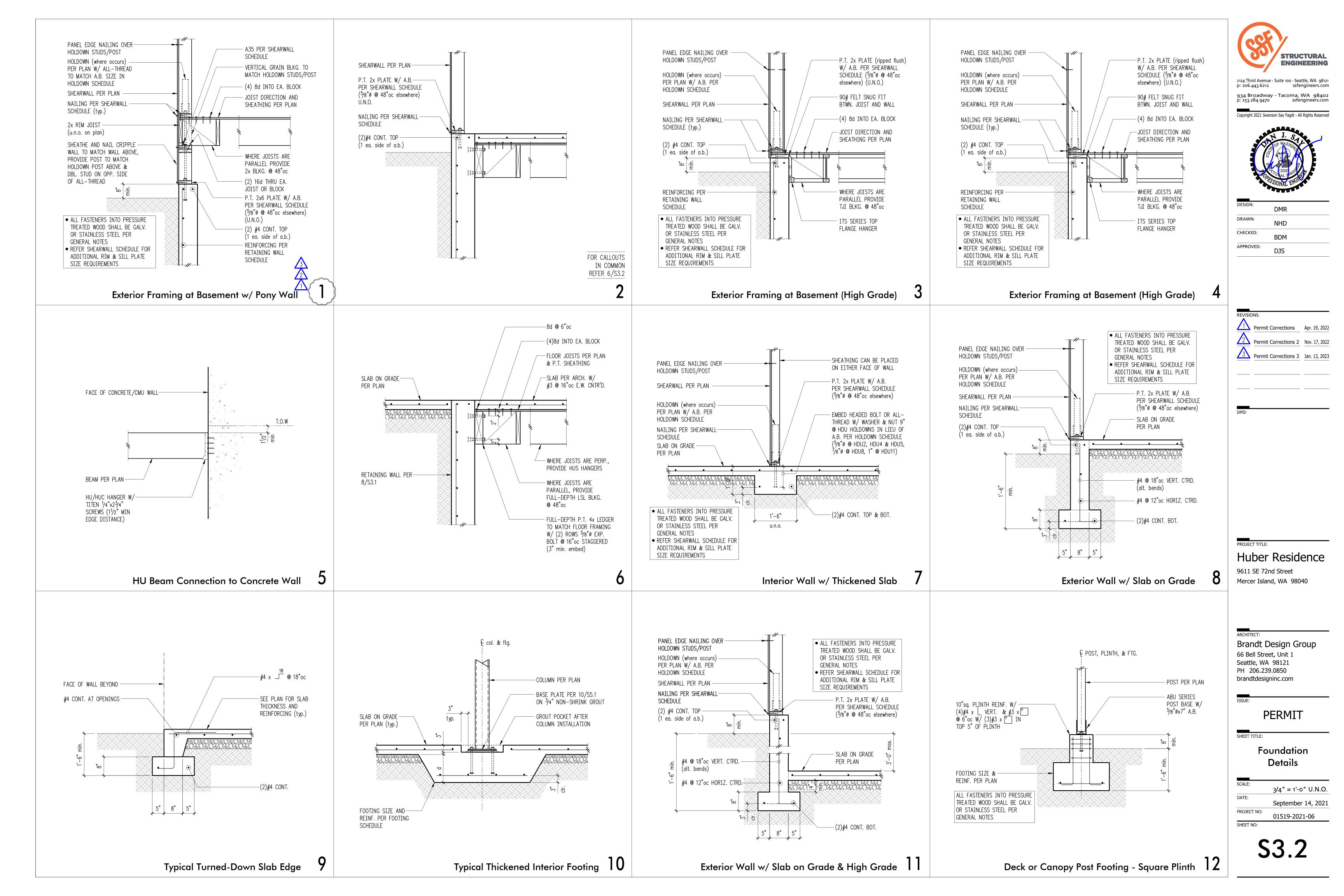
⁵/8"ø

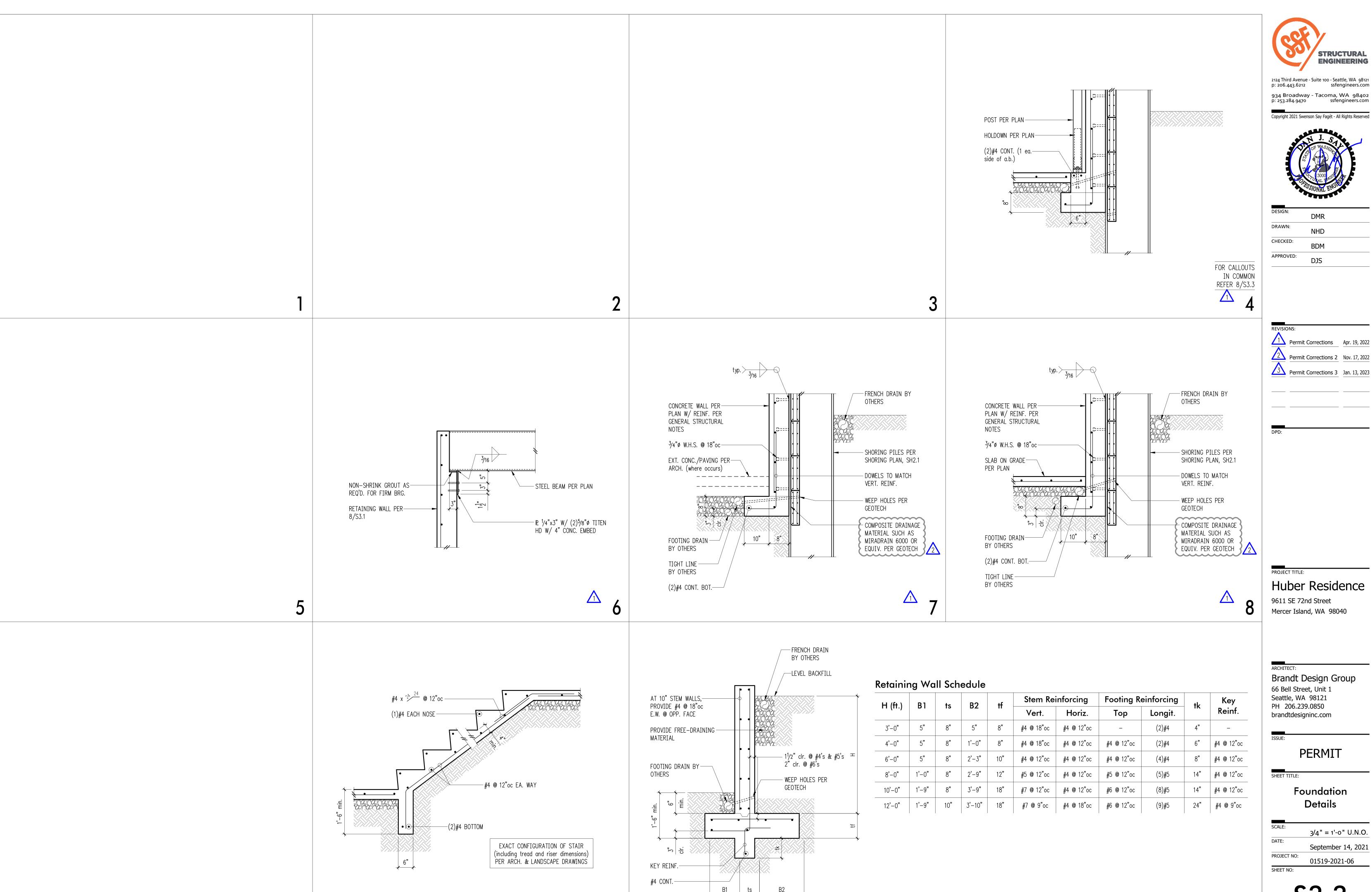
⁵/8"ø

⁵/8"ø

⁷/8"ø

1"ø





Typical Stair On Grade 10

9

STRUCTURAL **ENGINEERING**

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Huber Residence

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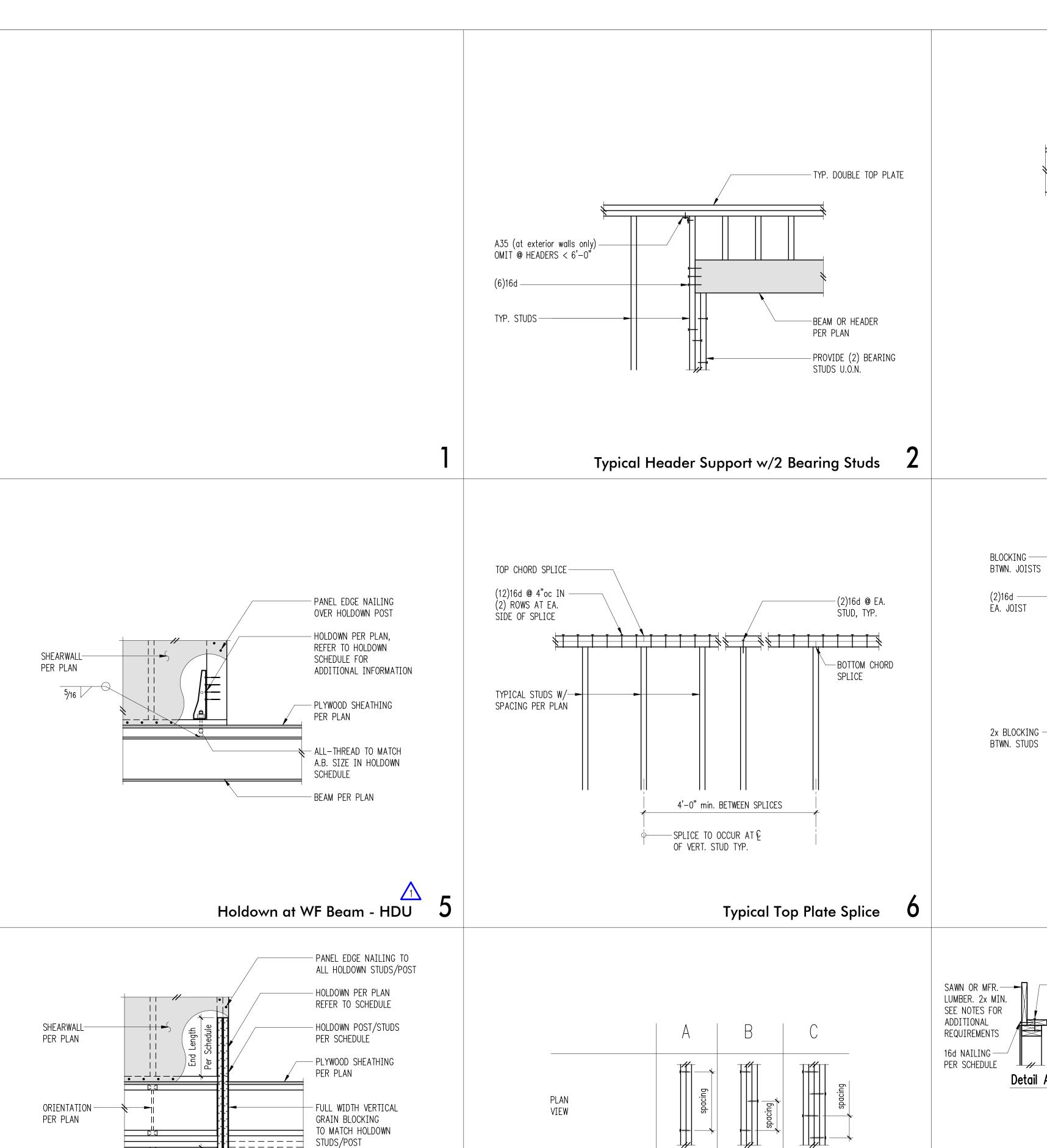
Foundation Details

3/4" = 1'-0" U.N.O. September 14, 2021

01519-2021-06

\$3.3

Site Retaining Wall Schedule 12



PER SCHEDULE

- REFER TO PLAN FOR

if 2x6

(1) 2x6

4x6

LOCATIONS WHERE

WALL CONTINUES

Holdown Studs/Post

Typical Holdown Schedule

if 2x4

(1) 2x4

Holdown Strap Schedule

Length

1'-2"

2'-6"

3'-3"

Mark

CS16

CMST14

CMST12

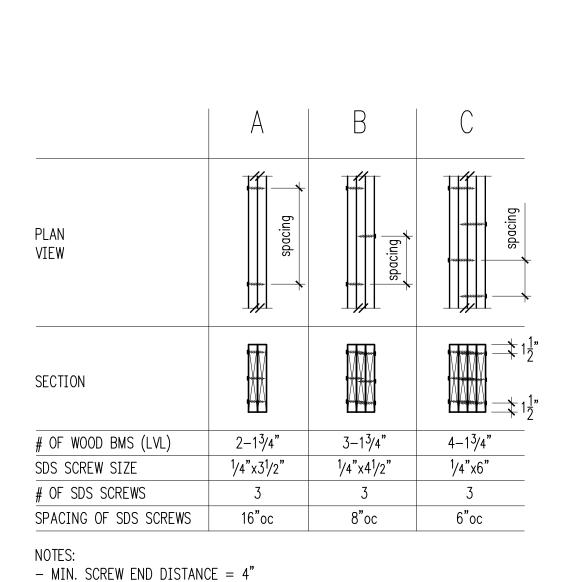
#Nails Ea.

End Length

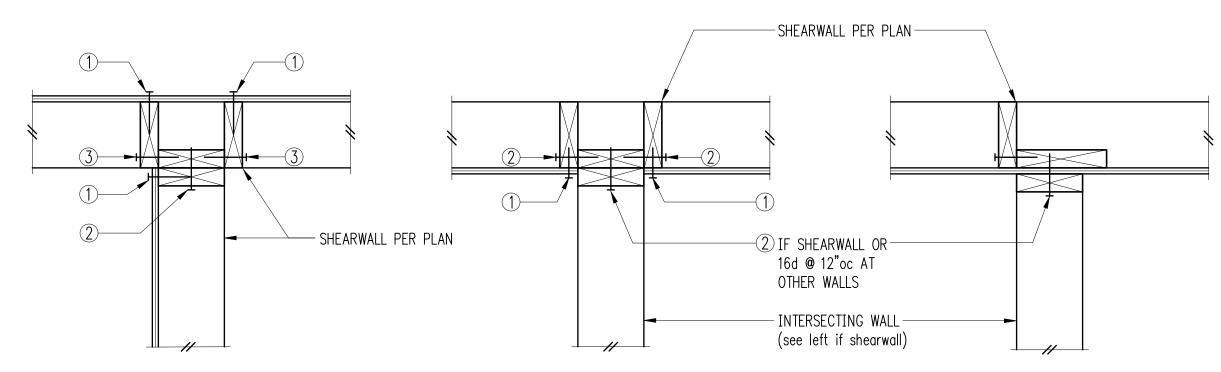
(13) 8d

(33) 10d

(43) 10d



Sistering Schedule for Multi Beams 10



1 PLYWOOD PANEL EDGE NAILING PER SHEARWALL SCHEDULE

PANEL EDGE NAILING OF

- PROVIDE 3½" LSL JOIST

OR BLKG. @ SHEARWALLS

ABOVE W/ EDGE NAILING

CLOSER THAN 4"oc

TOP PLATE CONNECTION

-TJI JOISTS PER PLAN-

-PANEL EDGE NAILING-

- SHEATHING PANEL JOINT

W/ PANEL EDGE NAILING

BOTTOM PLATE CONNECTION

- PANEL EDGE NAILING -

Shearwall Schedule

W/ 16d NAILS OR

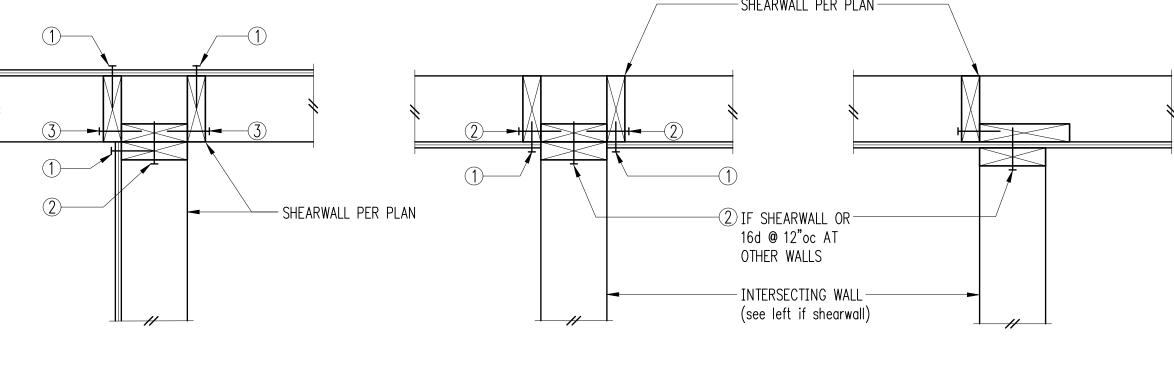
A35 W/LSL

SHEARWALL BELOW

2 BASE PLATE NAILING PER SHEARWALL SCHEDULE

③ 16d **@** 8"oc

Typical Shearwall Intersections



-(4)8d INTO ÈÁ. BLOCK (2)16d ÈA. BLOCK (1) JOIST BAY OF TJI BLKG. @ 48"oc — 2x BLOCKING BTWN. STUDS

SEE SHEARWALL SCHEDULE FOR ALL NAILING AND CONNECTIONS, NOT OTHERWISE NOTED

123678

Typical Shearwall Construction

Huber Residence 9611 SE 72nd Street

Mercer Island, WA 98040

STRUCTURAL ENGINEERING

2124 Third Avenue - Suite 100 - Seattle, WA 98121

934 Broadway - Tacoma, WA 98402

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BDM

DJS

Permit Corrections Apr. 19, 2022

Permit Corrections 2 Nov. 17, 2022

Permit Corrections 3 Jan. 13, 2023

p: 253.284.9470

DESIGN:

DRAWN:

CHECKED:

APPROVED:

REVISIONS:

Brandt Design Group 66 Bell Street, Unit 1 Seattle, WA 98121 PH 206.239.0850

brandtdesigninc.com

PERMIT

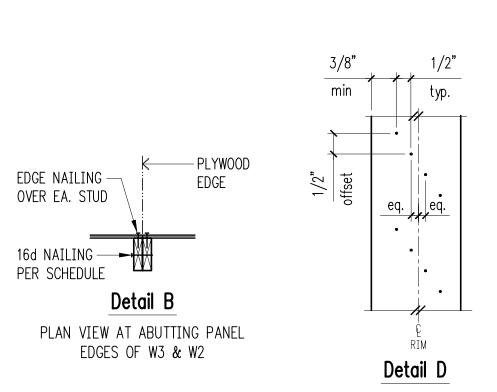
Typical Wood Framing Details

3/4" = 1'-0" U.N.O. September 14, 2021

PROJECT NO: 01519-2021-06 SHEET NO:

-16d NAILING SAWN OR MFR. --PER SCHEDULE LUMBER. 2x MIN. SEE NOTES FOR 2x NAILER REQUIREMENTS 1/2" MAX. TO EDGE OF WASHER PER SCHEDULE Detail C Detail A

Bearing Wall



A A ourel c	Sheathing	Panel Edge Nailing	Top Plate Connection		Base Plate Connection	
Mark			if TJI	if Wood ^⑨	at Wood 🗥 🗓	at Concrete
W6	15/32" CDX PLYWOOD	8d @ 6"oc	16d @ 6"oc	A35 @ 24"oc ^①	16d @ 6"oc	⁵ /8"ø A.B. @ 48"oc
W4	15/32" CDX PLYWOOD	8d @ 4"oc	16d @ 4"oc	A35 @ 16"oc ^①	(2)rows 16d @ 6"oc	⁵ /8"ø A.B. @ 32"oc
w3 4	15/32" CDX PLYWOOD	8d @ 3"oc	(2)rows 16d @ 4"oc	A35 @ 12"oc ^①	(2)rows 16d @ 6"oc	⁵ /8"ø A.B. @ 24"oc
W2 ⁴	15/32" CDX PLYWOOD	8d @ 2"oc	(2)rows 16d @ 4"oc	A35 @ 9"oc ^①	(2)rows 16d @ 4"oc ^①	⁵ /8"ø A.B. @ 16"oc
2 W2-10 ⁴	15/32" CDX PLYWOOD	10d @ 2"oc	(2)rows 16d @ 4"oc	A35 @ 9"oc ^①	(2)rows 16d @ 4"oc ¹³	⁵ /8"ø A.B. @ 16"oc
2W3 ⁽⁵⁾	15/32" CDX PLYWD. EA. SIDE	8d @ 3"oc EA. SIDE	n/a	A35 @ 6"oc	(3)rows 16d @ 4"oc ⁴	⁵ /8"ø A.B. @ 16"oc
2W2 ⁽⁵⁾	15/32" CDX PLYWD. EA. SIDE	8d @ 2"oc EA. SIDE	n/a <u>/1</u>	HGA10KT @ 8"oc 15	(3)rows 16d @ 4"oc ⁴	⁵ /8"ø A.B. @ 12"oc
2W2-10 ^⑤	15/32" CDX PLYWD. EA. SIDE	10d @ 2"oc EA. SIDE	n/a	HGA10KT @ 6"oc ¹⁵	(4)rows 16d @ 4"oc ¹⁴	⁵ /8"ø A.B. @ 12"oc
					` '	•

Non-Bearing Wall

① BLOCK PANEL EDGES WITH 2x MIN. LAID FLAT AND NAIL PANELS TO INTERMEDIATE SUPPORTS WITH 8d @ 12"o.c.

② 8d NAILS SHALL BE 0.131"ø x 2 1/2" (common) - 16d NAILS SHALL BE 0.135"ø x 3 1/2" (box) - 10d NAILS SHALL BE 0.148"ø x 3" (common). ③ EMBED ANCHOR BOLTS AT LEAST 7". EXPANSION BOLTS MAY BE SUBSTITUTED FOR ANCHOR BOLTS WITH 4" EMBEDMENT. TITEN HD SCREW ANCHORS MAY BE SUBSTITUTED FOR ANCHOR BOLTS W/ 4" EMBEDMENT. ALL BOLTS SHALL HAVE 3" x 3" x 1/4" MIN. PLATE WASHERS. PLATE WASHERS SHALL EXTEND TO

④ 3x STUDS OR DOUBLE STUDS NAILED TOGETHER W/ BASE PLATE NAILING ARE REQUIRED AT ABUTTING PANEL EDGES OF W3 AND W2.

SEE DETAIL B. WHERE 3x STUDS ARE USED FOR W2, STAGGER NAILS AT ADJOINING PANEL EDGES.

⑤ 3x FOUNDATION SILL PLATES ARE REQUIRED FOR 2W3 AND 2W2. 3x STUDS ARE REQUIRED AT ABUTTING PANEL EDGES AND PANEL JOINTS SHALL BE OFFSET EACH SIDE OF WALL. STAGGER NAILS AT ADJOINING PANEL EDGES. 3x STUD, MIN., REQUIRED AT END OF SHEARWALL 6 TWO STUDS MINIMUM ARE REQUIRED AT EACH END OF ALL SINGLE-SIDED SHEARWALLS. ALL END STUDS SHALL RECEIVE PANEL EDGE NAILING.

SEE PLANS AND HOLDOWN SCHEDULE FOR ALTERNATE REQUIREMENTS. ① ALL EXTERIOR WALLS SHALL BE W6, UNLESS NOTED OTHERWISE.

8 7/16" O.S.B. MAY BE SUBSTITUTED FOR 15/32" CDX, EXCEPT AT 10d PANEL EDGE NAILING.

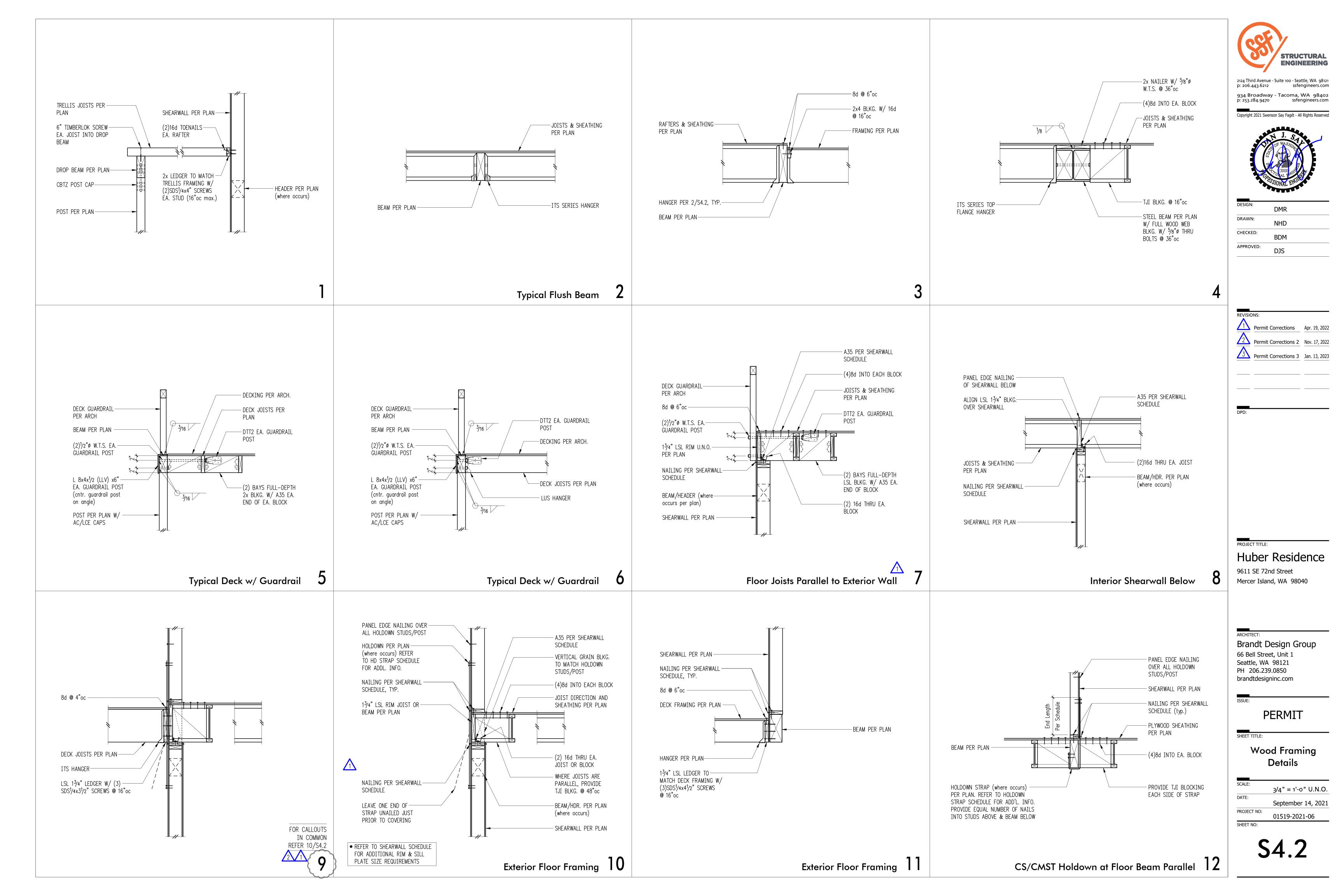
(9) LTP4's (HORIZONTAL ORIENTATION) W/ 8d COMMON MAY BE SUBSTITUTED FOR A35's AT CONTRACTORS OPTION.

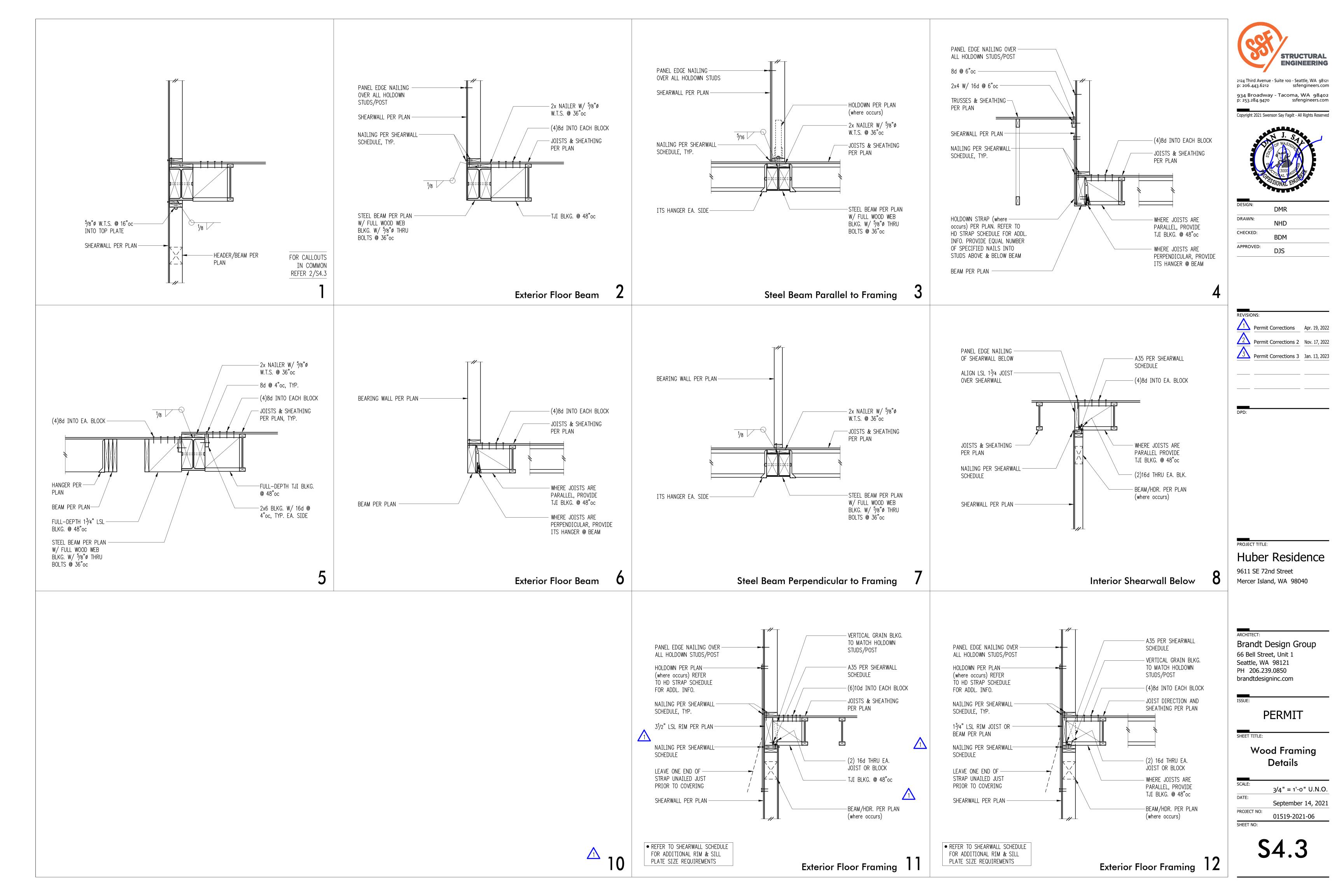
① A 2x NAILER ATTACHED W/ BASE PLATE NAILING PER DETAIL A MAY BE SUBSTITUTED FOR A35's AT CONTRACTORS OPTION. ① AT MULTI-ROW NAILING, MINIMUM OFFSET BETWEEN ROWS AND ROW SPACING 1/2", SEE DETAIL D.

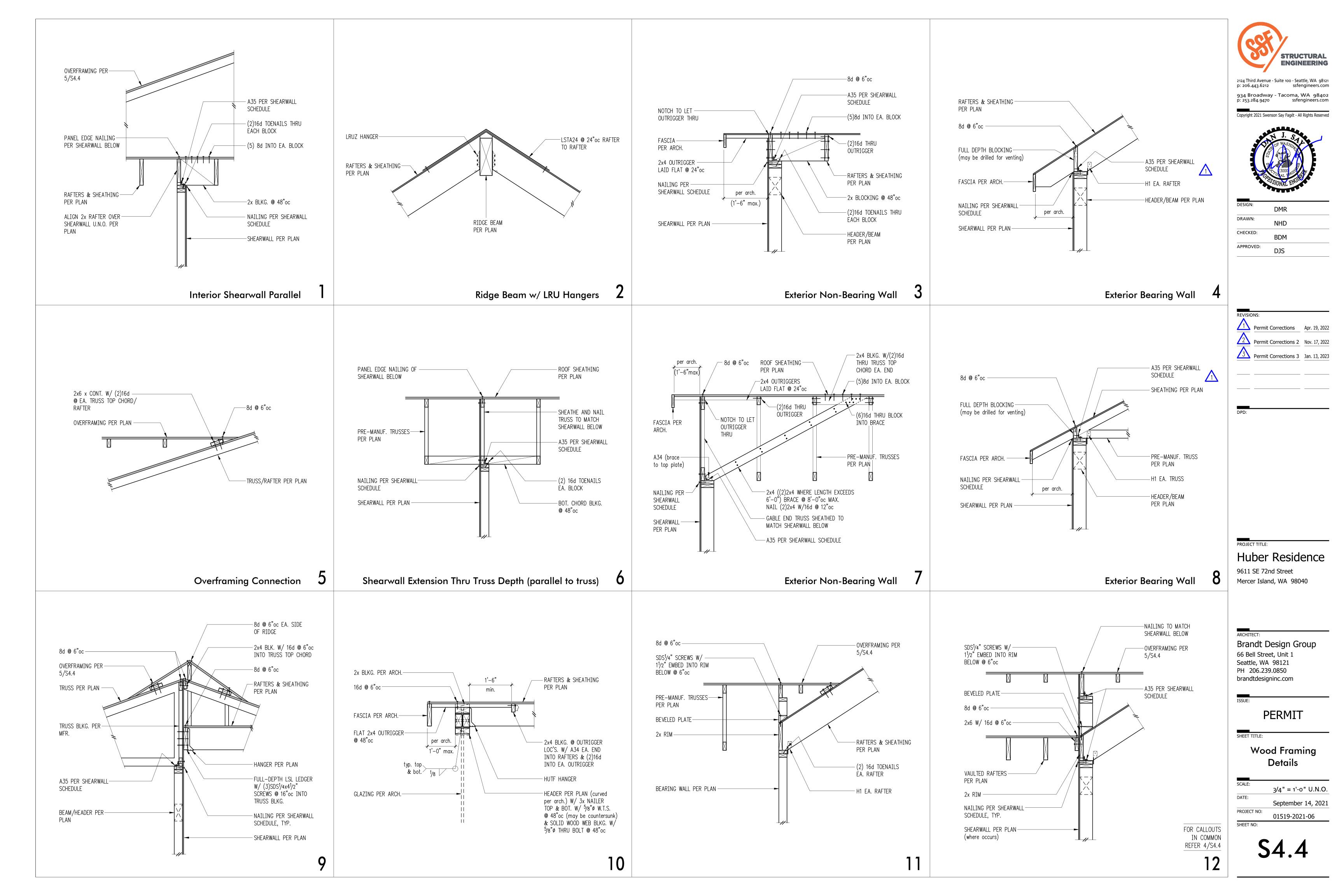
12 LVL RIMS PERMITTED AT SINGLE SIDED SHEAR WALLS ONLY. ③ PROVIDE (3) ROWS 16d @ 6"oc AT LVL RIMS.

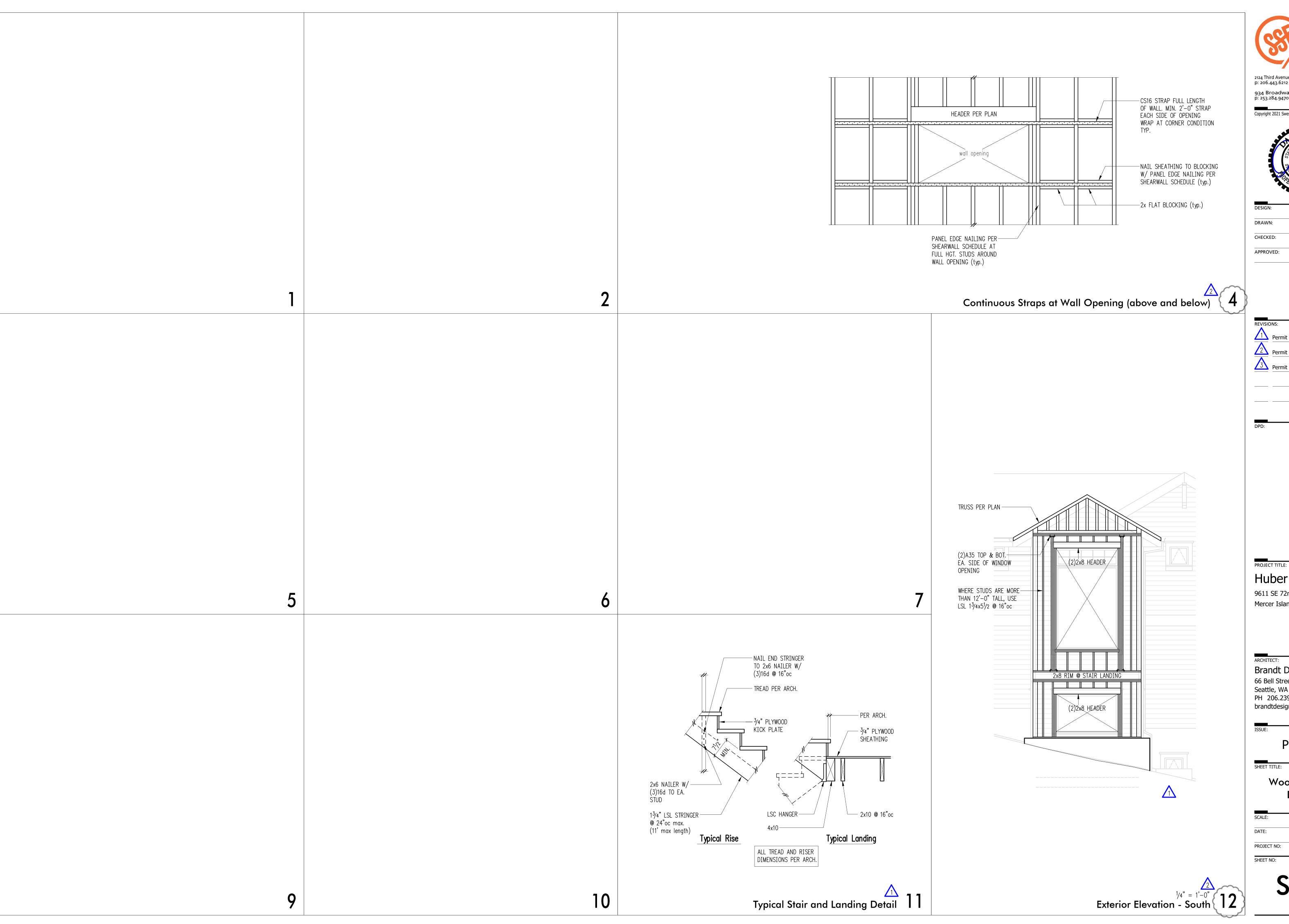
MINIMUM RIM OR JUIST 372 WIDE BELOW SHEMWING TO BE INSTALLED WITH SDS 1/4x3" SCREWS. (4) MINIMUM RIM OR JOIST 31/2" WIDE BELOW SHEARWALL.

Shearwall Schedule 12









STRUCTURAL **ENGINEERING**

2124 Third Avenue - Suite 100 - Seattle, WA 98121 p: 206.443.6212 ssfengineers.com 934 Broadway - Tacoma, WA 98402 p: 253.284.9470 ssfengineers.com

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DESIGN:	DMR	
DRAWN:	NHD	
CHECKED:	BDM	
APPROVED:	DJS	

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PERMIT

Wood Framing Details

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