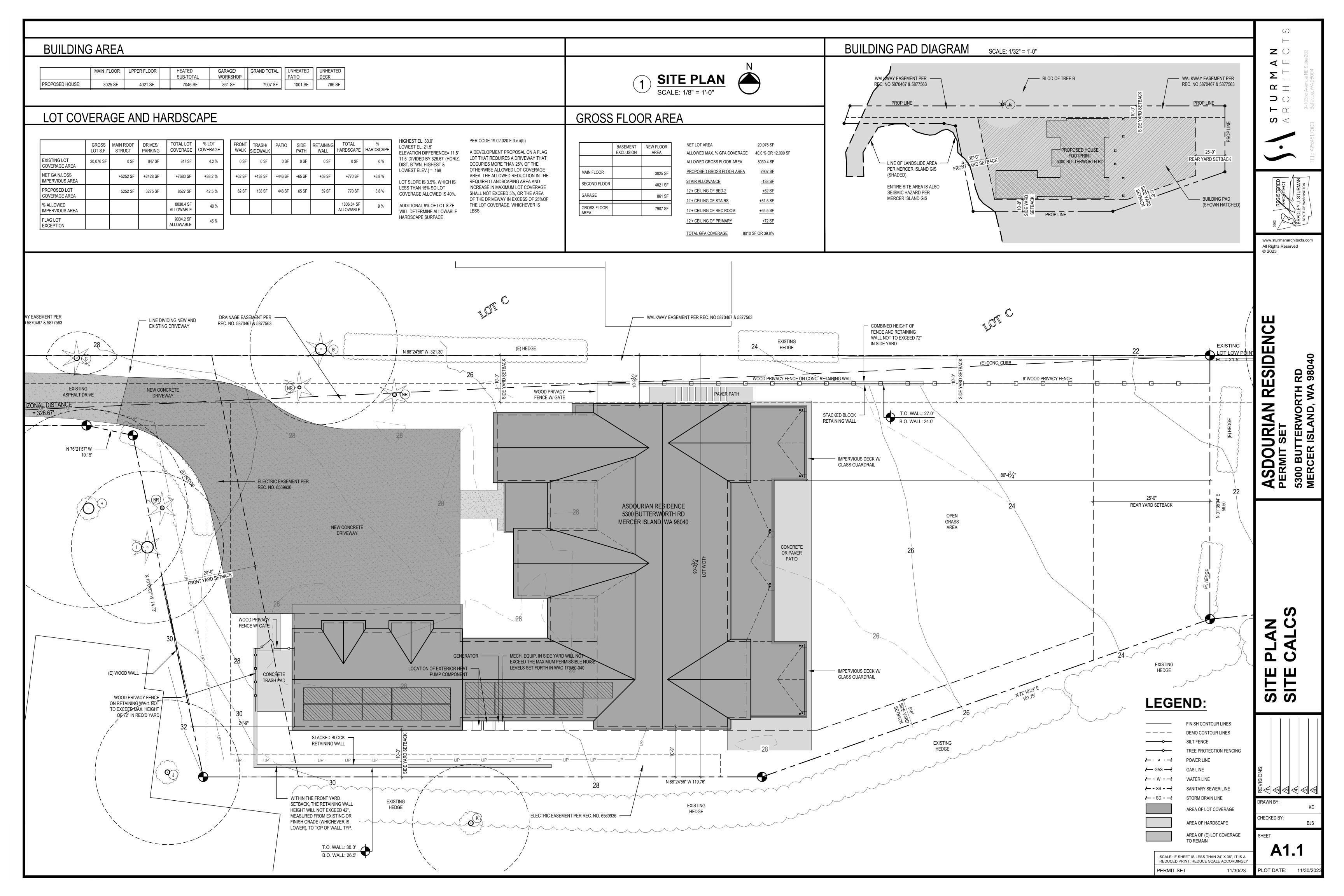
**ENERGY NOTES** AVERAGE BUILDING ELEV. **GENERAL NOTES** PROJECT DATA SHEET INDEX EXTERIOR ENTRY RENDER NSULATION VALUES: PRESCRIPTIVE METHOD PROJECT ADDRESS: 5300 BUTTERWORTH RD CLIMATIC ZONE: ZONE #4C -MARINE A1.0 COVER SHEET - GENERAL & ENERGY NOTES, LEGAL MERCER ISLAND 98040 ALL WORK SHALL COMPLY WITH THE 2018 IRC. 2018 IMC. VENT ALL BATHROOM FANS, LAUNDRY FANS, RANGE PROJECT DATA, CUT-FILL CALC, INDEX, SITE PLAN THERMAL STANDARDS FOR OPENINGS: UNLIMITED OPTION **AVERAGE BUILDING ELEVATION** 2018 IFGC, 2018 IFC, 2018 UPC, 2018 IPMC, 2008 NEC, 2018 HOODS AND DRYERS TO OUTSIDE ATMOSPHERE. FLAT ATTICS/CEILINGS: R-49 PROPERTY TAX ID NUMBER: 866140-0020 A1.1 FULL SITE PLAN BATHROOM/UTILITY ROOM FANS SHALL BE CAPABLE OF 5 INTERNATIONAL ENERGY CONSERVATION CODE WITH R-38 VAULTED CEILINGS: CODE: CONSTRUCTION OF NEW TWO-STORY SINGLE SCOPE OF WORK: WASHINGTON STATE AMENDMENTS, 2009 ICC A117.1, AND AIR CHANGES PER HOUR AND SHALL BE VENTED DIRECTLY Wall Length X Elev. FLOORS (OVER UNHEATED SPACES): R-38 SURVEY FAMILY RESIDENCE WITH ATTACHED GARAGE Wall Length Flevation Pt WITH ALL LOCAL CODES AND ORDINANCES. TO THE OUTSIDE THROUGH SMOOTH, RIGID SPACE HEAT TYPE: Pt. NATURAL GAS, FORCED AIR SYSTEM SLAB-ON-GRADE: NON-CORROSIVE METAL, 24 GA. DUCTWORK. FLEX R-15 C1.0 COVER SHEET AND SITE PLAN 1036 37 28.0 DUCTING IS NOT ALLOWED. WSEC R402.4.1.2 REQUIRES THE PER WSEC R401.3, A CERTIFICATE IS REQUIRED TO BE POSTED WITHIN 3 FT OF THE ELECTRICAL PANEL; IT MUST C2.0 **DEMO & TESC PLAN** DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS PRIOR DWELLING UNIT TO BE TESTED AND VERIFIED AS HAVING CONSTRUCTION TYPE: TYPE V B INCLUDE THE FOLLOW: PREDOMINATE R-VALUES, U-VALUES OF FENESTRATION, RESULTS FROM DUCT SYSTEM AND 6.5 28.0 182 TESC DETAILS C2.1 TO STARTING CONSTRUCTION. NOTIFY THE ARCHITECT OF AN AIR LEAKAGE RATE NOT EXCEEDING 5 AIR CHANGES BUILDING ENVELOPE AIR LEAKAGE TESTING, AND EFFICIENCIES OF HEATING/COOLING/WATER HEATING EQUIPMENT SEISMIC ZONE: C3.0 GRADING & UTILITY PLAN DISCREPANCIES. IF WORK IS STARTED PRIOR TO PER HOUR, TESTING MUST BE CONDUCTED WITH A BI OWER 17.5 28.0 490 DOOR AT A PRESSURE OF 0.2. NEW CONSTRUCTION MAY BE STORM DRAINAGE PLAN NOTIFICATION, THE GENERAL AND SUBCONTRACTOR C3.1 2 STORIES NUMBER OF STORIES: AIR INFILTRATION: OPERATING THE HEATING/COOLING SYSTEM IN SEQUENCE ISOLATED FROM EXISTING STRUCTURE FOR TESTING STORM DRAINAGE DETAILS PROCEED AT THEIR OWN RISK. C3.2 9.79 28.0 274.12 D MANUFACTURED DOORS/WINDOWS: CONFORM TO SECTION THERMOSTAT TO BE AUTOMATIC DAY/NIGHT SETBACK TYPE. **⊘** < FIRE PROTECTION NFPA 13R FIRE SPRINKLERS C3.3 UTILITY DETAILS UNLESS OTHERWISE NOTED, PLAN DIMENSIONS ARE TO R402.4.3 OF THE WASHINGTON STATE ENERGY CODE 13. FLUES: FLUES TO BE LOCATED MINIMUM 2" FROM ALL 6.42 28.0 179.76 FACE OF STUDS OR FACE OF CONCRETE WALLS. FACE OF DUCT INSULATION: FIRE ALARM: NFPA 72 CHAPTER 29 MONITORED FIRE ALARM STONE VENEER LIES 6" +/- OUTSIDE THE FACE OF FRAMING. A2.0 MAIN FLOOR PLAN EXTERIOR JOINTS/OPENINGS: SEAL, CAULK, GASKET OR THERMALLY INSULATE ALL PLENUMS, DUCTS AND ENCLOSURES SYSTEM PER CoMI STANDARDS. SEPARATE PERMIT 28.0 392 INTERIOR PLAN DIMENSIONS ARE TO FACE OF STUDS COMBUSTIBLE MATERIALS. UPPER FLOOR WEATHERSTRIP TO LIMIT AIR LEAKAGE AT EXTERIOR JOINTS IN ACCORDANCE WITH SECTION R403.3.1 OF THE WASHINGTON REQUIRED. UNLESS OTHERWISE NOTED. VERIFY ALL ROUGH-IN ROOF PLAN AROUND WINDOW AND DOOR FRAMES, OPENINGS BETWEEN 6.42 28.0 179.76 DIMENSIONS FOR WINDOWS, DOORS, PLUMBING. 14. DOWNSPOUTS:
LOCATE NEW DOWNSPOUTS AS SHOWN ON ROOF PLAN, MAX. 30 FT ABOVE AVERAGE BUILDING ELEV. **BUILDING HEIGHT** EXTERIOR ELEVATIONS WALLS AND FOUNDATION, BETWEEN WALLS AND ROOF: ELECTRICAL FIXTURES AND APPLIANCES PRIOR TO ALL HEATING DUCTS IN UNCONDITIONED SPACES SHALL EXTERIOR ELEVATIONS OPENINGS AT PENETRATIONS OF UTILITY SERVICES AND ALL 10.75 28.0 301 GROSS FLOOR AREA: 12,000 SF OR 40 % LOT AREA, WHICHEVER IS LESS COMMITMENT OF WORK. NOTIFY ARCHITECT OF ANY FLOOR PLANS & ELEVATIONS. BUILDING SECTIONS OTHER SUCH OPENINGS IN THE BUILDING ENVELOPE BE INSULATED WITH A MIN. OF R-8. ALL SEAM JOINTS SHALL BE DISCREPANCIES OF DIMENSIONAL TOLERANCES REQUIRED. 11.58 27.0 312.66 TAPED, SEALED AND FASTENED WITH THE MINIMUM OF BUILDING SECTIONS LOT AREA: 20,076 SF MOISTURE CONTROL FASTENERS PER WSEC. BUILDING SECTIONS . DOCUMENT REVIEW/VERIFICATION REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL, 27.0 378 WALLS: VAPOR RETARDER BONDED TO BATT INSULATION: SETBACKS: FRONT: 20' BUILDING SECTIONS CONSULT WITH ARCHITECT REGARDING ANY SUSPECTED AND/OR LANDSCAPE DRAWINGS FOR ADDITIONAL INSTALL WITH STAPLES NOT MORE THAN 8 INCHES ON CENTER DUCTS WITHIN A CONCRETE SLAB OR IN THE GROUND SIDE: 17% LOT WIDTH, MIN. 5' A5.0 WALL SECTIONS ERRORS, OMISSIONS, OR CHANGES ON PLANS BEFORE DRAWINGS, NOTES, SCHEDULES, AND SYMBOLS. 17.67 26.0 459.42 SHALL BE INSULATED TO R-10, WITH INSULATION DESIGNED TO AND AND WITH A GAP BETWEEN AND OVER FRAMING NOT ARCHITECTURAL DETAILS PROCEEDING WITH THE WORK GREATER THAN 1/16 OF AN INCH; OR, VAPOR RETARDER OF ONE BE USED BELOW GRADE. 25.5 51 PERM CUP RATING (4 MIL POLYETHYLENE) PROTECT ALL EXISTING FINISHES AND SURFACES, ANY STRUCTURAL GENERAL NOTES PROJECT TEAM M 34.21 25.0 855.25 TYPICAL DETAILS VERIFY SIZE AND LOCATION, AS WELL AS PROVIDE ALL DAMAGE WILL BE REPAIRED WITHOUT ADDITIONAL COST TO RECESSED LIGHTING FIXTURES INSTALLED IN BUILDING ATTICS/CEILINGS: VAPOR RETARDER OF ONE PERM CUP RATING **VICINITY MAP** TYPICAL DETAILS OPENINGS THROUGH FLOORS AND WALLS, FURRING. (4 MIL POLYETHYLENE). INSTALL CONTINUOUSLY ENVELOPE SHALL COMPLY WITH WSEC PROVISIONS AND SHALL 25.0 400 Ν CURBS, ANCHORS, INSERTS, EQUIPMENT BASES AND MAIN FLOOR WALL & FOUNDATION PLAN OWNER: BE IC LISTED. A MIN. OF 75% OF PERMANENTLY INSTALLED LAMPS ROUGH BUCKS/BACKING FOR SURFACE-MOUNTED ITEMS. UPPER FLOOR FRAMING PLAN 5.96 25.5 151.98 IN INTERIOR AND EXTERIOR LIGHTING FIXTURES MUST BE 0 CRAWL SPACE: 6 MIL POLYETHELENE SEPARATE ELECTRICAL, MECHANICAL, AND PLUMBING S5.1 UPPER FLOOR FRAMING LEGEND & SCHEDULE HIGH-EFFICACY LAMPS, PER WSEC R404.1. RYAN & ASHLEY ASDOURIAN PERMITS ARE REQUIRED IN ADDITION TO THE BASIC ROOF FRAMING PLAN 34.54 26.0 898.04 www.sturmanarchitects.com Р VENTILATION: 5300 BUTTERWORTH RD PROVIDE FURRING AS REQUIRED TO CONCEAL **BUILDING PERMIT** SECTIONS & DETAILS All Rights Reserved ATTICS WITH LOOSE FILL: N.A. BAFFLE VENT OPENINGS TO PIPE INSULATION: MERCER ISLAND, WA 98040 MECHANICAL AND/OR ELECTRICAL EQUIPMENT IN FINISHED Q 9.96 26.5 263.94 © 2023 **SECTIONS & DETAILS** DEFLECT AIR ABOVE INSULATION SURFACE ENCLOSED JOIST OR ALL HOT WATER PIPES, AND NON-RECIRCULATING COLD WATER PHONE: 206-963-4718 AREAS. FURRING NOT SHOWN ON PLANS SHALL BE RAFTER SPACES: PROVIDE MINIMUM OF ONE INCH CLEAR PIPES LOCATED IN UNCONDITIONED SPACE, SHALL BE INSULATED SECTIONS & DETAILS EMAIL: RASDO@MICROSOFT.COM R 16.25 27.0 438.75 PROVIDE NEW ROOFING TO MATCH EXISTING. APPROVED BY ARCHITECT PRIOR TO CONSTRUCTION. VENTED AIR SPACE ABOVE INSULATION. TAPER OR COMPRESS TO R-3 MIN. PLUMBING OR MECHANICAL CANNOT DISPLACE THE SECTIONS & DETAILS INSULATION AT PERIMETER TO INSURE PROPER VENTILATION, REQUIRED INSULATION. WSWH2 STRONGWALL WSWH FRAMING DETAILS ARCHITECT: 27.0 135 GEOTECHNICAL ENGINEER: 6. GRADES: VERIFY ALL GRADES AND THEIR RELATIONSHIP TO THE MAINTAINING MINIMUM OF R-38. PROVIDE BACKDRAFT DAMPERS AT ALL EXHAUST DUCTS. PLUMBING FIXTURES: 27.0 54 STURMAN ARCHITECTS, INC. GEOTECH CONSULTANTS, INC. BUILDING(S). PROVIDE COMBUSTION AIR OPENINGS INTO FURNACE **HEATING & COOLING:** ALL PLUMBING FIXTURES SHALL CONFORM TO RCW 19.27.170 9 - 103RD AVE NE SUITE 203 2401 10TH AVE EAST ROOM PER UMC 703. 93.79 28.0 2626.12 GAS FURNACE & AIR SOURCE HEAT PUMP ALL TOILETS 1.6 GPM MAX U BELLEVUE, WA 98004 SEATTLE, WA 98102 2018 WSEC CREDITS URINALS 1.0 GPF MAX FLOOR LINE" REFERS TO TOP OF CONCRETE SLAB OR TOP PHONE: 425.451.7003 PHONE: 425.747.5618 3.23 29.0 93.67 TEMP. CONTROL: SHOWERHEADS < 1.75 GPM CONTACT: BRAD STURMAN CLEARANCES OF UL LISTED APPLIANCES FROM OF WOOD SUBFLOOR. CONTACT: MARC MCGINNIS FOR HEATING AND COOLING, THERMOSTAT SHALL BE CAPABLE KITCHEN FAUCETS < 1.75 GPM W 2.5 29.0 72.5 COMBUSTIBLE MATERIALS SHALL BE AS SPECIFIED IN UL OF BEING SET FROM 55-85 DEGREES FARENHEIT AND OF LAVATORIES < 1.0 GPM REPETITIVE FEATURES CIVIL ENGINEER STRUCTURAL ENGINEER: PROJECT IS A NEW RESIDENCE GREATER THAN 5,000 SQ FT RESIDENCE 13.79 28.0 Χ 386.12 OFTEN DRAWN ONLY ONCE AND SHALL BE PROVIDED AS IF CONDITIONED AREA, AND SO IS A LARGE DWELLING UNIT FULLY DRAWN. PATRICK HARRON & ASSOCIATES, LLC **REQUIRING 7.0 CREDITS** OG ENGINEERING WHOLE HOUSE VENTILATION 2.5 28.0 70 SHOWER SHALL BE EQUIPPED WITH FLOW CONTROL 14900 INTERURBAN AVE S., SET. 279 DEVICE TO LIMIT WATER FLOW TO 2.5 GALLONS PER SEATTLE, WA 98168 SEATTLE. WA 7.73 28.0 216.44 DOORS NOT DIMENSIONALLY LOCATED SHALL BE 6" FROM PHONE: 206.674.4659 PHONE: 206.290.4608 OPTION CREDITS STUD FACE TO EDGE OF DOOR, ROUGH OPENING OR WHOLE HOUSE VENTILATION SHALL BE PROVIDED BY LOCAL e. AIRFLOW FOR WHOLE HOUSE VENTILATION SHALL BE CONTACT: SCHWIN CHAOSILAPAKUL 708.5 401.09 10897.53 CONTACT: OWEN GOULD RD 98040 CENTERED BETWEEN WALLS AS SHOWN. PROVIDED BY UNDERCUTTING INTERIOR DOORS 1/2" ABOVE EXHAUST FAN, PROVIDING MIN. 90 CFM RUNNING -HEAT PUMP EFFICIENCY (AIR COOLED) 14.0 SMOKE & CARBON MONOXIDE THROUGHOUT NEW 1.0 CONTINUOUSLY PER 2018 IRC TABLES M1505.4.2 (1&2). FAN SEER, 11 HSPF CONSTRUCTION. NFPA 72 CHAPTER 29 MONITORED FIRE SHALL BE LESS THAN .35 WATT PER CFM AND RUN ALARM SYSTEM PER CoMI STANDARDS. SEPARATE PERMIT LEGAL DESCRIPTION Average Building CONTINUOUSLY, AND HAVE A SONE RATING OF LESS THAN 1.0. WHOLE HOUSE VENTILATION SHALL BE TESTED, BALANCED O BE PRESSURE TREATED, TYPICAL. PROVIDE PRESSURE REQUIRED. 1.3 0.5 -VERTICAL FENESTRATION U = .28, VENTILATION SHALL BE ABLE TO OPERATE INDEPENDENTLY OF AND VERIFIED AND A WRITTEN REPORT SHALL BE POSTED AND 10897.53 27.17 **Elevation** TREATED SILL PLATE IF FINISH GRADE IS WITHIN 8", FLOOR=R-38 HEATING SYSTEM. PROVIDED THE BUILDING OFFICIAL AND CERTIFICATION -R-10 RIGID INSULATION ENTIRE PERIMETER COMPLETED PER WSEC SECTIONS M1505.4.1.6 AND M1505.4.1.7 401.09 FIREBLOCKING SHALL BE PROVIDED IN WOOD-FRAMED LOT 2, TONJA ESTATES, AS PER PLAT RECORDED IN VOLUME 77 OF PLATS, PAGE AND UNDER ENTIRE SLAB SYSTEM SHALL HAVE A 5"Ø SMOOTH FRESH AIR DUCT W/ CONSTRUCTION PER 2018 IRC SECTION R302.11. 64, RECORDS OF KING COUNTY, WASHINGTON; a. AN EXHAUST FAN WHOLE HOUSE VENTILATION IS NOT LOUVER & SCREEN CONNECTED TO THE RETURN AIR STREAM RIAN ALL NEW INTERIOR FRAME PARTITIONS TO BE 2X4 @ 16" SPECIFICALLY: 1) IN CONCEALED SPACES OF STUD WALLS TOGETHER WITH THAT PORTION OF LOT 3 OF SAID PLAT DESCRIBED AS FOLLOWS 3.5 1.5 -AIR SOURCE, CENTRALLY DUCTED HEAT ALLOWED WITH AN ERV SYSTEM. 4' UPSTREAM OF THE AIR HANDLER AND INSULATED W/ R-4 MIN 0 O.C., & ALL NEW EXTERIOR FRAME PARTITIONS TO BE 2X6 AND PARTITIONS, 2) AT INTERCONNECTIONS BETWEEN BEGINNING AT THE NORTHEAST CORNER OF SAID LOT 3; THENCE SOUTH 1°35'04" IN HEATED AREAS. ALL SUPPLY DUCTS IN CONDITIONED SPACE PUMP W/ MIN. HSPF OF 11.0 CONCEALED VERTICAL AND HORIZONTAL SPACES, 3) IN @ 16" O.C., UNLESS OTHERWISE NOTED. VERIFY W/ WEST ALONG THE EASTERLY LINE OF LOT 3, A DISTANCE OF 75.31 FEET; THENCE ABE KEY PLAN SHALL BE INSULATED TO MIN. R-4 PER IRC M1507.3.5.2. SCALE: 1/32" = 1'-0" STRUCTURAL DRAWINGS. EXISTING EXTERIOR WALLS ARE CONCEALED SPACES BETWEEN STAIR STRINGERS AT T.O. & NORTH 10°03'02" WEST A DISTANCE OF 74.73 FEET; THENCE NORTH 76°21'57" WEST 4.2 1.0 -HVAC EQUIP. & AND ITS DUCT SYSTEM BEDROOMS 2X4 STUDS @ 16" O.C., AND ARE TO REMAIN. NEW B.O. RUN. 4) AT OPENINGS AROUND VENTS, PIPES, ETC. AT A DISTANCE OF 10.15 FEET. MORE OR LESS. TO THE NORTH LINE OF SAID LOT 3. SHALL HAVE A FILTER WITH A MERV OF AT LEAST 6 INSTALLED INSTALLATION SHALL COMPLY W/ R403.3.7 CEILING AND FLOOR LEVEL. INTERMEDIATE FRAMING AT EXTERIOR WOOD WALLS IN AN EASILY ACCESSIBLE LOCATION. THENCE SOUTH 88°24'56" EAST ALONG SAID NORTH LINE 25.00 FEET TO THE POINT ALL EQUIP. & DUCTS SHALL BE IN HEATED SQUARE FOOTAGE 7046 SF REQUIRES HEADERS INSULATED WITH A MIN. R-10 **D** S OF BEGINNING CONDITIONED SPACE, W/I CONTINUOUS AIR INSULATION. FRESH AIR VENT SHALL BE LOCATED AWAY FROM SOURCES TOGETHER WITH AN UNDIVIDED 1/7 TH INTEREST IN LOT 1 OF SAID PLAT. CFM = 0.01(7046 SF) + 7.5(6+1 BEDROOMS) BARRIER & BUILDING THERMAL ENVELOPE. ISTALLATION OF 1-HR RATED GYPSUM IN ALL AREAS. OF ODORS OR FUMES. MIN 10' FROM PLUMBING OR APPLIANCE PROVIDE SOLID CORE OR FIRE RATED DOORS. VENTS, AWAY FROM ROOMS W/ FUEL BURNING APPLIANCES, AIRFLOW (CFM) 5.3 1.0 -ENERGY STAR RATED GAS OR PROPANE 123 CFM MIN AND OUT OF ATTICS, CRAWL SPACES, AND GARAGES. DUTY OF COOPERATION WATER HEATER W/ A MIN. UEF OF 0.91 ASI PERI -FOR EACH 1200 kWh OF ELECTRICAL 6.1 3.0 GENERATION PROVIDED BY SOLAR, 1 CREDIT **NOXIOUS WEEDS** TREE PROTECTION **GEOTECH ENGINEER** WILL BE GIVEN, UP TO 3 CREDITS RELEASE AND ACCEPTANCE OF THESE DOCUMENTS INDICATES COOPERATION AMONG THE OWNER, CONTRACTOR, AND STURMAN ARCHITECTS. ANY ERRORS, OMISSIONS, OR DISCREPANCIES DISCOVERED IN THE USE OF THESE TOTAL CREDITS GEOTECHNICAL ENGINEER REQUIRED TO BE PRESENT ON SITE DURING DEVELOPMENT PROPOSALS FOR A NEW SINGLE-FAMILY HOME SHALL REMOVE JAPANESE A TREE PROTECTION INSPECTION IS REQUIRED DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO STURMAN ARCHITECTS. EXCAVATION AND AT REGULAR INTERVALS DURING CONSTRUCTION TO KNOTWEED (POLYGONUM CUSPIDATUM) AND REGULATED CLASS A, REGULATED CLASS B, AND BEFORE START OF WORK FAILURE TO DO SO WILL RELIEVE STURMAN ARCHITECTS FROM ANY REGULATED CLASS C WEEDS IDENTIFIED ON THE KING COUNTY NOXIOUS WEED LIST, AS MONITOR THE STABILITY OF THE TEMPORARY OPEN CUT EXCAVATIONS RESPONSIBILITY FOR THE CONSEQUENCES. \*PLEASE NOTE: ALL APPLIANCES SHALL BE INSTALLED WITH AMENDED, FROM REQUIRED LANDSCAPING AREAS ESTABLISHED PURSUANT TO SUBSECTION PROPOSED FOR SITE SUPPORTING DOCUMENTATION ON SITE PRIOR TO FINAL 19.02.020(F)(3)(A). NEW LANDSCAPING ASSOCIATED WITH NEW SINGLE-FAMILY HOME SHALL RETAINING WALLS AND RESIDENTIAL STRUCTURE EXCAVATIONS. ANY DEVIATION FROM THESE DOCUMENTS WITHOUT THE CONSENT OF INSPECTION, NO DRYER DUCTS OR DRYER VENT CAPS SHALL NOT INCORPORATE ANY WEEDS IDENTIFIED ON THE KING COUNTY NOXIOUS WEED LIST, AS STURMAN ARCHITECTS IS UNAUTHORIZED. FAILURE TO OBSERVE THESE NOT BE INSTALLED AMENDED. PROVIDED, THAT REMOVAL SHALL NOT BE REQUIRED IF THE REMOVAL WILL PROCEDURES SHALL RELIEVE STURMAN ARCHITECTS OF RESPONSIBILITY FOR RESULT IN INCREASED SLOPE INSTABILITY OR RISK OF LANDSLIDE OR EROSION. ALL CONSEQUENCES ARISING FROM SUCH ACTIONS. WALKWAY EASEMENT PER DRAINAGE EASEMENT PÉR WALKWAY EASEMENT PER REC. NO 5870467 & 5877563 LINEED!/NDDNG870467 & 5877563 REC. NO 5870467 & 5877563 { **o** } NEW AND **EXISTING** DRAINAGE EASEMENT PER -REC. NO. 5870467 & 5877563 RAINAGE EASEMENT PER REC. NO. 5870467 & 5877563 - ELECTRIC EASEMENT PER REC. NO. 6569936 25'-0" NSDOURIAN RIESIDENCE REAR YARD SETBACK 5000 BUTTERWORTH RD S UTILITIES & DRAINAGE EASEMENT PER REC. NO. 5870467 & 5877563 LEGEND SILT FENCE TREE PROTECTION FENCING <u>#</u>||@||@||@||@||@ SANITARY SEWER LINE CHECKED BY: STORM DRAIN LINE SITE PLAN
SCALE: 1/16" = 1'-0" AREA OF LOT COVERAGE ELECTRIC EASEMENT PER AREA OF HARDSCAPE SCALE: IF SHEET IS LESS THAN 24" X 36", IT IS A AREA OF (E) LOT COVERAGE REDUCED PRINT: REDUCE SCALE ACCORDINGL TO REMAIN PLOT DATE: 11/30/202 PERMIT SET 11/30/23



#### LEGAL DESCRIPTION

LOT 2, TONJA ESTATES, AS PER PLAT RECORDED IN VOLUME 77 OF PLATS, PAGE 64, RECORDS OF KING COUNTY, WASHINGTON; TOGETHER WITH THAT PORTION OF LOT 3 OF SAID PLAT DESCRIBED

BEGINNING AT THE NORTHEAST CORNER OF SAID LOT 3: THENCE SOUTH 1°35'04" WEST ALONG THE EASTERLY LINE OF LOT 3. A DISTANCE OF 75.31 FEET; THENCE NORTH 10°03'02" WEST A DISTANCE OF 74.73 FEET; THENCE NORTH 76°21'57" WEST A DISTANCE OF 10.15 FEET, MORE OR LESS, TO THE NORTH LINE OF SAID LOT 3, THENCE SOUTH 88°24'56" EAST ALONG SAID NORTH LINE 25.00 FEET TO THE POINT OF BEGINNING.

TOGETHER WITH AN UNDIVIDED 1/7 TH INTEREST IN LOT 1 OF SAID

#### BASIS OF BEARINGS

ACCEPTED THE BEARING OF S 20°10'45" W BETWEEN MONUMENTS FOUND ALONG THE CENTERLINE OF BUTTERWORTH ROAD, PER REFERENCE NO. 1.

## REFERENCES

R1. TONJA ESTATES, VOL. 77 OF PLATS, PG. 64, RECORDS OF KING COUNTY, WASHINGTON.

#### VERTICAL DATUM

NAVD 88 PER CITY OF MERCER ISLAND BENCHMARK NO. 1934 DESCRIPTION: 3" BRASS PLUG IN 4"X4" CONC (DN 1.6') LOCATION: OPP D/W HSE #5210 ON BUTTERWORTH RD ELEVATION: 32.14'

#### SURVEYOR'S NOTES

- 1. THE TOPOGRAPHIC SURVEY SHOWN HEREON WAS PERFORMED IN JANUARY OF 2023. 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. 8661400020
- 5. SUBJECT PROPERTY AREA PER THIS SURVEY IS 20,076 S.F. (0.46 ACRES)
- 7. THE PROPERTY DESCRIBED HEREON IS THE SAME AS THE PROPERTY DESCRIBED IN FIDELITY NATIONAL TITLE INSURANCE COMPANY'S OWNER'S POLICY NO. 611321770, WITH AN EFFECTIVE DATE OF NOVEMBER 15, 2022 AND THAT ALL EASEMENTS, COVENANTS AND RESTRICTIONS REFERENCED IN SAID TITLE COMMITMENT OR APPARENT FROM A PHYSICAL INSPECTION OF THE PROPERTY OR OTHERWISE KNOWN TO ME HAVE BEEN PLOTTED HEREON OR OTHERWISE NOTED AS TO THEIR EFFECT ON
- B. EXISTING STRUCTURE(S) LOCATION AND DIMENSIONS ARE MEASURED FROM THE FACE OF THE SIDING UNLESS OTHERWISE
- 9. 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.



# TOPOGRAPHIC & BOUNDARY SURVEY

#### SCHEDULE B ITEMS

- EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT: GRANTED TO: MERCER ISLAND SEWER DISTRICT
- PURPOSE: SEWER RECORDING DATE: JUNE 19, 1964
- RECORDING NO.: 5750958 AFFECTS: REFERENCE IS HEREBY MADE TO DOCUMENT FOR FULL
- PARTICULARS (AS CONSTRUCTED EAST OF SHORELINE.)
- 2. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT: GRANTED TO: MERCER ISLAND SEWER DISTRICT PURPOSE: SEWER
- RECORDING DATE: JULY 8, 1964 RECORDING NO.: 5758750
- AFFECTS: REFERENCE IS HEREBY MADE TO DOCUMENT FOR FULL PARTICULARS
- (AS CONSTRUCTED EAST OF SHORELINE.)
- 3. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT: PURPOSE: UTILITIES AND DRAINAGE
- RECORDING DATE: APRIL 23, 1965 RECORDING NO.: 5870467

EASEMENT. UNDIVIDED 1/7 INTEREST IN LOT 1.)

- AFFECTS: REFERENCE IS HEREBY MADE TO DOCUMENT FOR FULL PARTICULARS (PLOTTED UTILITIES AND DRAINAGE EASEMENTS. PLOTTED WALKWAY
- 4. COVENANTS, CONDITIONS, RESTRICTIONS, RECITALS, RESERVATIONS, EASEMENTS, EASEMENT PROVISIONS, ENCROACHMENTS, DEDICATIONS, BUILDING SETBACK LINES, NOTES, STATEMENTS, AND OTHER MATTERS, IF ANY, BUT OMITTING ANY COVENANTS OR RESTRICTIONS, IF ANY, INCLUDING BUT NOT LIMITED TO THOSE BASED UPON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, FAMILIAL STATUS, MARITAL STATUS, DISABILITY, HANDICAP, NATIONAL ORIGIN, ANCESTRY, OR SOURCE OF INCOME, AS SET FORTH IN APPLICABLE STATE OR FEDERAL LAWS, EXCEPT TO THE EXTENT THAT SAID COVENANT OR RESTRICTION IS PERMITTED BY APPLICABLE LAW, AS SET FORTH ON TONJA ESTATES:
- RECORDING NO: 5877563 (PLOTTED UTILITIES AND DRAINAGE EASEMENTS. PLOTTED WALKWAY EASEMENT. UNDIVIDED 1/7 INTEREST IN LOT 1.)

- 5. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT: GRANTED TO: PUGET SOUND POWER & LIGHT COMPANY PURPOSE: UTILITIES
- RECORDING DATE: SEPTEMBER 26, 1969 RECORDING NO.: 6569936
- AFFECTS: REFERENCE IS HEREBY MADE TO DOCUMENT FOR FULL PARTICULARS (PLOTTED)
- 7. COVENANTS, CONDITIONS, RESTRICTIONS, RECITALS, RESERVATIONS, EASEMENTS, EASEMENT PROVISIONS, ENCROACHMENTS, DEDICATIONS, BUILDING SETBACK LINES, NOTES, STATEMENTS, AND OTHER MATTERS, IF ANY, BUT OMITTING ANY COVENANTS OR RESTRICTIONS, IF ANY, INCLUDING BUT NOT LIMITED TO THOSE BASED UPON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, FAMILIAL STATUS, MARITAL STATUS, DISABILITY, HANDICAP, NATIONAL ORIGIN, ANCESTRY, OR SOURCE OF INCOME, AS SET FORTH IN APPLICABLE STATE OR FEDERAL LAWS, EXCEPT TO THE EXTENT THAT SAID COVENANT OR RESTRICTION IS PERMITTED BY APPLICABLE LAW, AS SET FORTH ON FELTIS-EYRING BOUNDARY LINE REVISION MERCER ISLAND FILE NO. M.I. 92-09-43: RECORDING NO: 9212299014 (CURRENT CONDITIONS SHOWN)
- 8. COVENANTS, CONDITIONS, RESTRICTIONS, RECITALS. RESERVATIONS, EASEMENTS, EASEMENT PROVISIONS, ENCROACHMENTS, DEDICATIONS, BUILDING SETBACK LINES, NOTES, STATEMENTS, AND OTHER MATTERS, IF ANY, BUT OMITTING ANY COVENANTS OR RESTRICTIONS, IF ANY, INCLUDING BUT NOT LIMITED TO THOSE BASED UPON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, FAMILIAL STATUS, MARITAL STATUS, DISABILITY, HANDICAP, NATIONAL ORIGIN, ANCESTRY, OR SOURCE OF INCOME, AS SET FORTH IN APPLICABLE STATE OR FEDERAL LAWS, EXCEPT TO THE EXTENT THAT SAID COVENANT OR RESTRICTION IS PERMITTED BY APPLICABLE LAW, AS SET FORTH ON ROSA LINE REVISION MERCER ISLAND FILE NO. 94-0467:

RECORDING NO: 9606139004 (CURRENT CONDITIONS SHOWN)

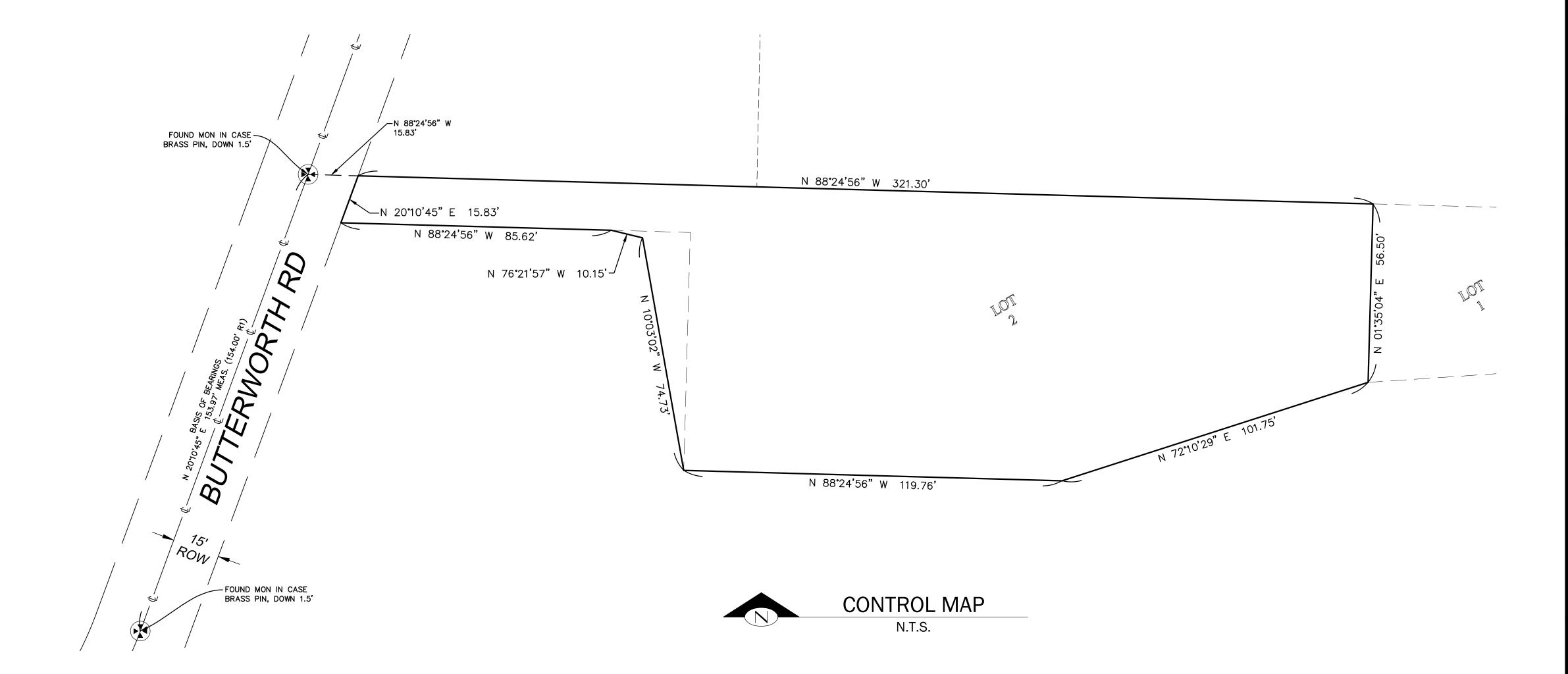
#### LEGEND AREA DRAIN ASPHALT SURFACE BUILDING ----- CENTERLINE ROW CONCRETE SURFACE DECK X X FENCE LINE (CHAIN LINK) FENCE LINE (WOOD) GV GAS VALVE HEDGE FOLIAGE LINE MAILBOX (RESIDENTIAL) MONUMENT (IN CASE, FOUND) POST POWER METER POWER POLE POWER TRANSFORMER PROPERTY LINE (SUBJECT) ---- PROPERTY LINES (ADJACENT) REBAR & CAP (SET) 0 REBAR AS NOTED (FOUND) RETAINING WALL

ROCKERY —— SS —— SEWER LINE ( ) SEWER MANHOLE SIZE TYPE ( ) TREE (AS NOTED) WM WATER METER BOO BLOW OFF VALVE ----- GAS LINE WALKWAY EASEMENT PER REC.

NO. 5870467 & 5877563 DRAINAGE EASEMENT PER REC. NO. 5870467 & 5877563 SEWER EASEMENT PER REC. NO. 5750958 & 5758750

VX//X// UTILITIES & DRAINAGE EASEMENT PER REC. NO. 5870467 & 5877563

ELECTRIC EASEMENT PER REC. NO. 6569936



STEEP SLOPE/BUFFER DISCLAIMER:

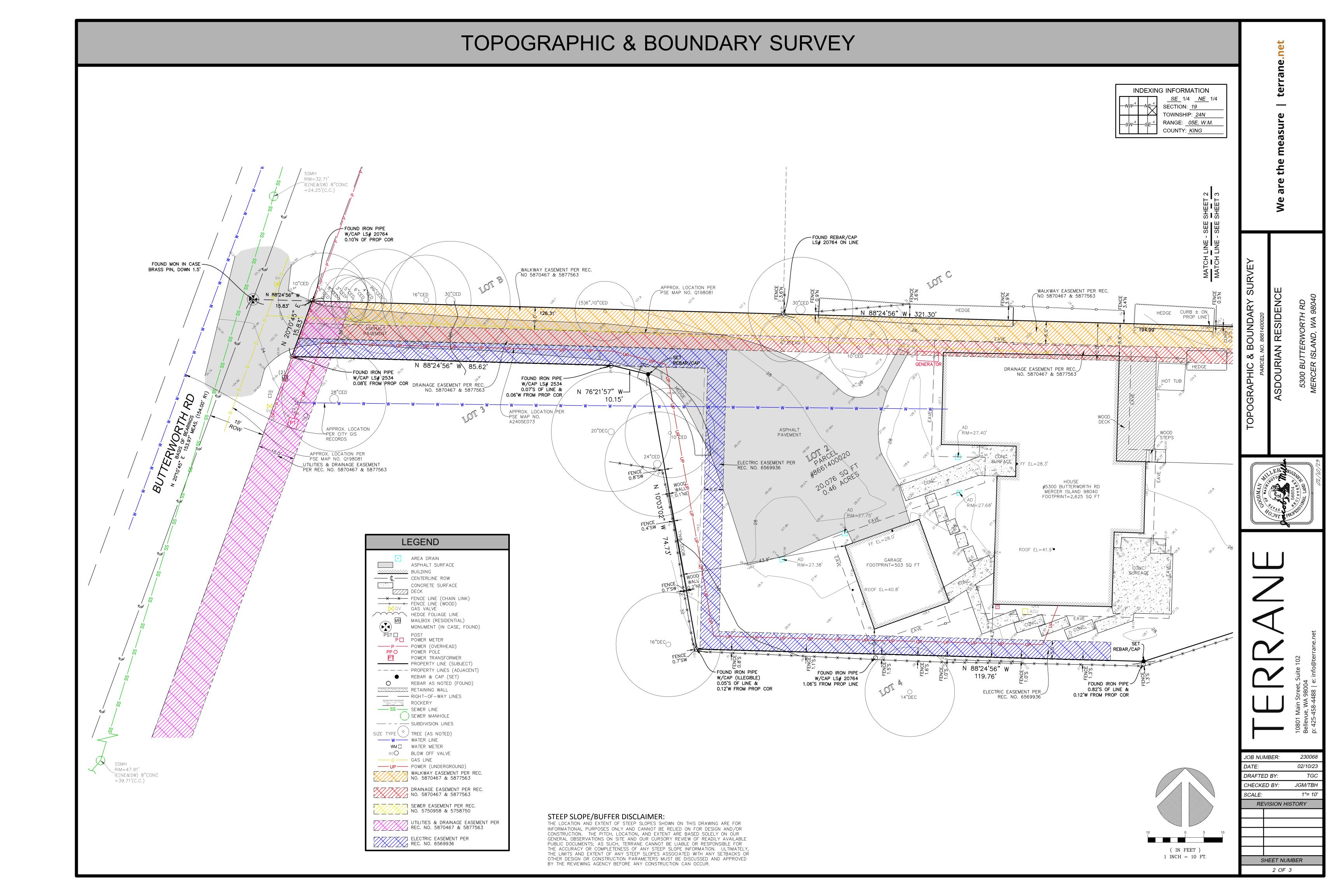
THE LOCATION AND EXTENT OF STEEP SLOPES SHOWN ON THIS DRAWING ARE FOR INFORMATIONAL PURPOSES ONLY AND CANNOT BE RELIED ON FOR DESIGN AND/OR CONSTRUCTION. THE PITCH, LOCATION, AND EXTENT ARE BASED SOLELY ON OUR GENERAL OBSERVATIONS ON SITE AND OUR CURSORY REVIEW OF READILY AVAILABLE PUBLIC DOCUMENTS; AS SUCH, TERRANE CANNOT BE LIABLE OR RESPONSIBLE FOR HE 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 Y THE REVIEWING AGENCY BEFORE ANY CONSTRUCTION CAN OCCUR.

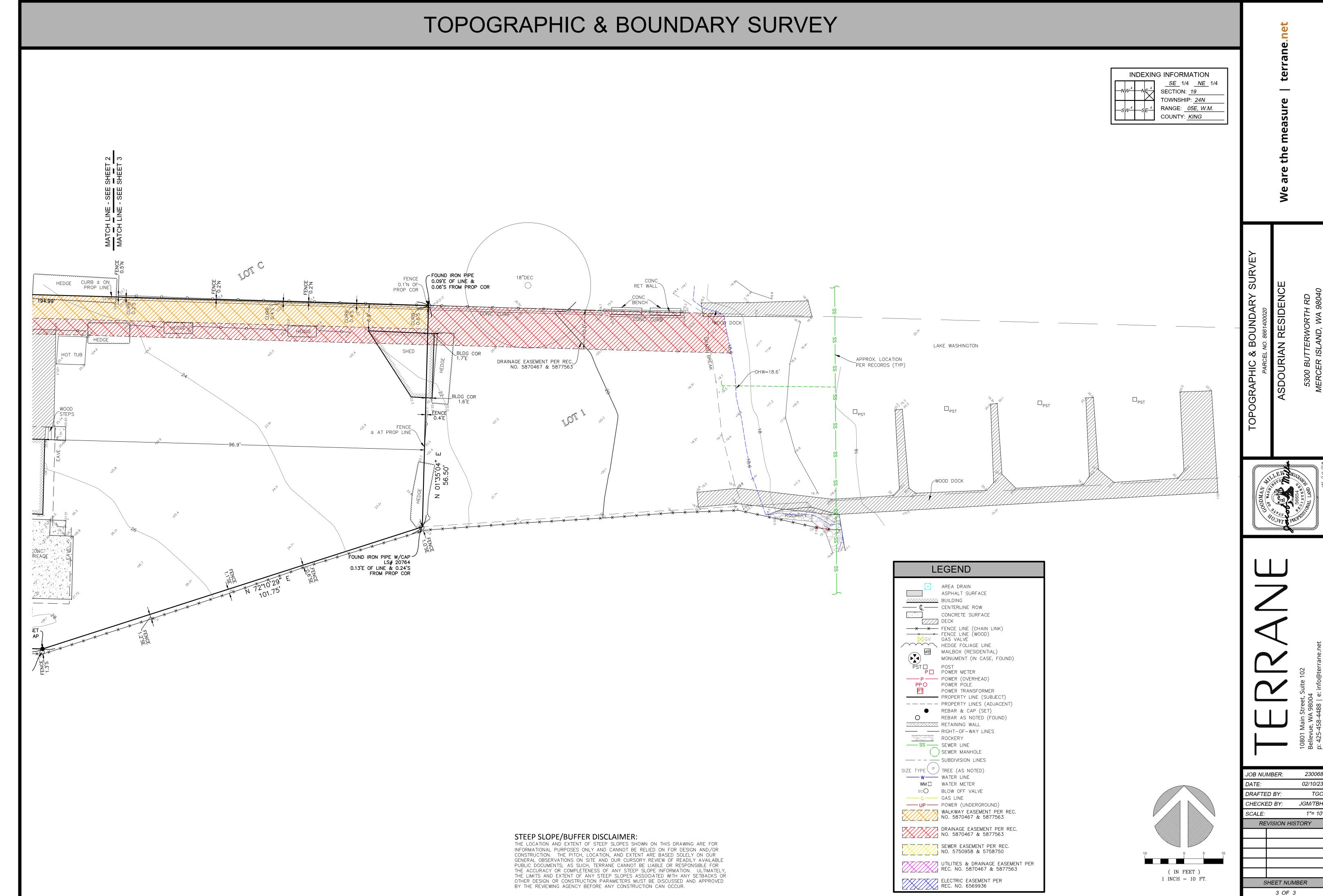
INDEXING INFORMATION SE 1/4 NE 1/4 SECTION: 19 TOWNSHIP: 24N RANGE: 05E, W.M. COUNTY: KING

BOUND/

JOB NUMBER: 02/10/23 DRAFTED BY: JGM/TBH CHECKED BY: REVISION HISTORY

SHEET NUMBER 1 OF 3

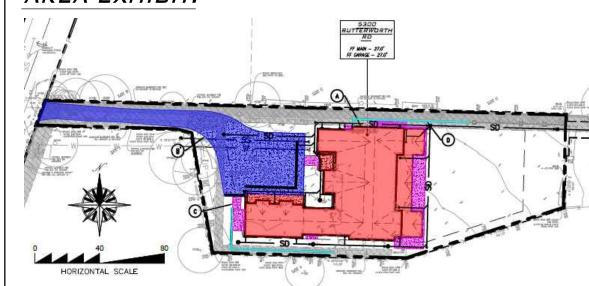




02/10/23 JGM/TBH

SITE PLAN SCALE: 1"=20'

## AREA EXHIBIT:



_	ARE	A INVENTORY	•
		Proposed Surface Coverage Summary	, (O
		Troposed surrous core age summary	10

Proposed Surface Coverage Summary (Unsite)								
Description	(sf)	(ac)						
Total Property	20,076	0.461						
New House Roof	5,203	0.119						
Driveway	3,300	0.076						
Walkways & Patio	727	0.017						
Walls	110	0.003						
Total Proposed Hard Surface		0.214						
Total Pervious Surface (Lawn)		0.246						
	Description Total Property New House Roof Driveway Walkways & Patio Walls Total Proposed Hard Surface	Description   (sf)						

#### SITE CALLOUTS:

PROPERTY BOUNDARY, TYP. PROPOSED BUILDING FOOTPRINT, TYP.

PROPOSED BUILDING ROOFLINE, TYP. 4. BUILDING SETBACK LINE, TYP. SEE DEVELOPMENT DATA NOTES FOR MINIMUM

SETBACKS. 5. EXISTING TREES TO BE PROTECTED—IN—PLACE UNLESS OTHERWISE NOTED, TYP (SEE ARBORIST REPORT AND SHEET C2.0 FOR LIMITS OF DISTURBANCE AND TREE

PROPOSED ON-SITE CONCRETE DRIVEWAY/PARKING, TYP (SEE SHEET C3.0 FOR

GRADING PLAN).

PROPOSED STACKED BLOCK RETAINING WALL (< 4.0'). PROPOSED IMPERVIOUS DECK, TYP.

PROPOSED CONCRETE OR PAVER PATIO, TYP.

10. PROPOSED PAVER PATH.

11. PROPOSED CONCRETE TRASH PAD. 12. PROPOSED MECHANICAL/ELECTRICAL PAD, TYP.

13. PROPOSED PRIVACY FENCE, TYP.

14. TREE PROTECTION FENCING, TYP (SEE SHEET C2.0). 15. TREE DRIPLINE/RLOD/MLOD, TYP (SEE SHEET C2.0).

### SITE NOTES:

1. SOILS OF DISTURBED PERVIOUS AREAS TO BE AMENDED.

# (#) STORM CALLOUTS:

1. PROPOSED STORM DRAINAGE SYSTEM, TYP (SEE SHEET C3.1 FOR DRAINAGE PLAN).

# (#) SEWER & WATER CALLOUTS:

PROPOSED DOMESTIC WATER SYSTEM, TYP (SEE SHEET C3.0 FOR WATER PLAN). 2. PROPOSED SANITARY SEWER SYSTEM, TYP (SEE SHEET C3.0 FOR SEWER PLAN).

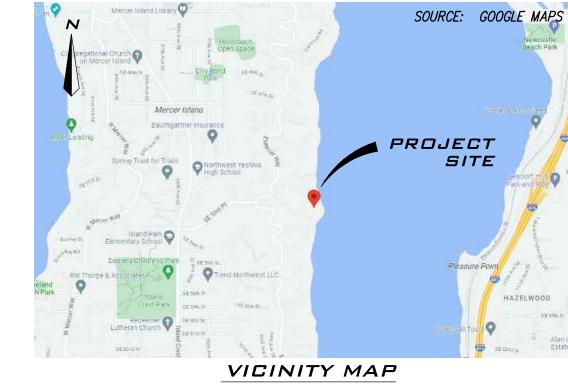
# \* EASEMENT CALLOUTS:

1. 5.0' ELECTRIC EASEMENT.

2. 6.0' WALKWAY EASEMENT.

3. 10.0' DRAINAGE EASEMENT. 4. 10.0' UTILITIES & DRAINAGE EASEMENT.

SHEET LIST							
SHEET #	NAME	DESCRIPTION					
1	C1.0	COVER SHEET & SITE PLAN					
2	C2.0	DEMOLITION & TESC PLAN					
3	C2.1	TESC DETAILS					
4	C3.0	GRADING & UTILITY PLAN					
5	C3.1	STORM DRAINAGE PLAN					
6	C3.2	STORM DRAINAGE DETAILS					
7	C3.3	UTILITY DETAILS					



# SCALE: NTS

#### PROJECT TEAM:

RYAN AND ASHLEY ASDOURIAN 5300 BUTTERWORTH RD MERCER ISLAND, WA 98040 EMAIL: RASDO@MICROSOFT.COM

PROJECT ARCHITECT: STURMAN ARCHITECTS BRAD STURMAN 9-103RD AVE NE, SUITE 203 BELLEVUE, WA 98004 PH: (425) 451-7003 EMAIL: BRAD@STURMANARCHITECTS.COM

PROJECT CIVIL ENGINEER: PATRICK HARRON & ASSOCIATES, LLC SCHWIN CHAOSILAPAKUL, PE 14900 INTERURBAN AVENUE S #279 SEATTLE, WA 98168 PH: (206) 674-4659 EMAIL: SCHWIN@PATRICKHARRON.COM

<u>PROJECT SURVEYOR:</u> TERRANE JACOB MILLER 10801 MAIN ST, SUITE 102 BELLEVUE, WA 98004

PH: (425) 458-4488 EMAIL: SUPPORT@TERRANE.NET PROJECT GEOTECHNICAL ENGINEER: GEOTECH CONSULTANTS, INC MARC MCGINNIS 2401 10TH AVE EAST SEATTLE, WA 98102

PH: (425) 747-5618

PROJECT ARBORITST: TREE SOLUTIONS, INC. CHARLIE VOGELHEIM 2940 WESTLAKE AVE N #200 SEATTLE, WA 98109 PH: (206) 528-4670 EMAIL: CHARLIE@TREESOLUTIONS.NET

ASDOURIAN RESIDENCE 20076 SF (0.46 AC)

5300 BUTTERWORTH RD

8661400020

20.0 FT

10.0 FT

25.0 FT

40% (MAX)

MERCER ISLAND, WA 98040

EMAIL: MARCM@GEOTECHNW.COM

## PROJECT INFORMATION:

<u>DEVELOPMENT DATA:</u> PROJECT NAME PROPERTY AREA SITE ADDRESS

PARCEL NUMBER **BUILDING SETBACKS:** 

FRONT YARD SIDE YARD REAR YARD

LOT COVERAGE (BLDG)

<u>UTILITIES:</u> SEWER WATER POWER *SCHOOLS* FIRE DISTRICT

MERCER ISLAND PUBLIC WORKS MERCER ISLAND PUBLIC WORKS PUGET SOUND ENERGY LAKE WASHINGTON #414 MERCER ISLAND FIRE DEPARTMENT

#### LEGAL DESCRIPTION:

LOT 2, TONJA ESTATES, AS PER PLAT RECORDED IN VOLUME 77 OF PLATS, PAGE 64, RECORDS OF KING COUNTY, WASHINGTON: TOGETHER WITH THAT PORTION OF LOT 3 OF SAID PLAT DESCRIBED AS FOLLOWS; BEGINNING AT THE NORTHEAST CORNER OF SAID LOT 3; THENCE SOUTH 1°35'04" WEST ALONG THE EASTERLY LINE OF LOT 3, A DISTANCE OF 75.31 FEET; THENCE NORTH 10°03'02" WEST A DISTANCE OF 74.73 FEET; THENCE NORTH 76°21'57" WEST A DISTANCE OF 10.15 FEET, MORE OR LESS, TO THE NORTH LINE OF SAID LOT 3, THENCE SOUTH 88°24'56" EAST ALONG SAID NORTH LINE 25.00 FEET TO THE POINT OF BEGINNING. TOGETHER WITH AN UNDIVIDED 1/7 TH INTEREST IN LOT 1 OF SAID PLAT.

#### DATUM:

<u>VERTICAL DATUM</u> - NAVD 88 PER CITY OF MERCER ISLAND BENCHMARK NO. 1934 DESCRIPTION: 1" BRASS PLUG IN 4"X4" CONC (DN 1.6') LOCATION: OPP D/W HSE #5210 ON BUTTERWORTH RD. ELEVATION: 32.14'

HORIZONTAL DATUM (BASIS OF BEARINGS)

ACCEPTED THE BEARING OF \$2010'45"W BETWEEN MONUMENTS FOUND ALONG THE CENTERLINE OF BUTTERWORTH ROAD, PER REFERENCE NO. 1.

#### REFERENCES:

- 1. ARCHITECTURAL PLANS BY STURMAN ARCHITECTS. 2. BOUNDARY AND TOPOGRAPHIC SURVEY BY TERRANE.
- 3. GEOTECH REPORT BY GEOTECH CONSULTANTS, INC. 4. ARBORIST REPORT BY TREE SOLUTIONS, INC.

CALL 48 HOURS BEFORE YOU DIG 811

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 1-800-424-5555 OR 811 (CELL) A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.



∞ MERCER DING PER CITY OF BUILE



		<u>1</u> 4 ≥
. NO. 23109	DSN. BY:	С
CC	снк. ву:	С

ENC SID RE OURIAN

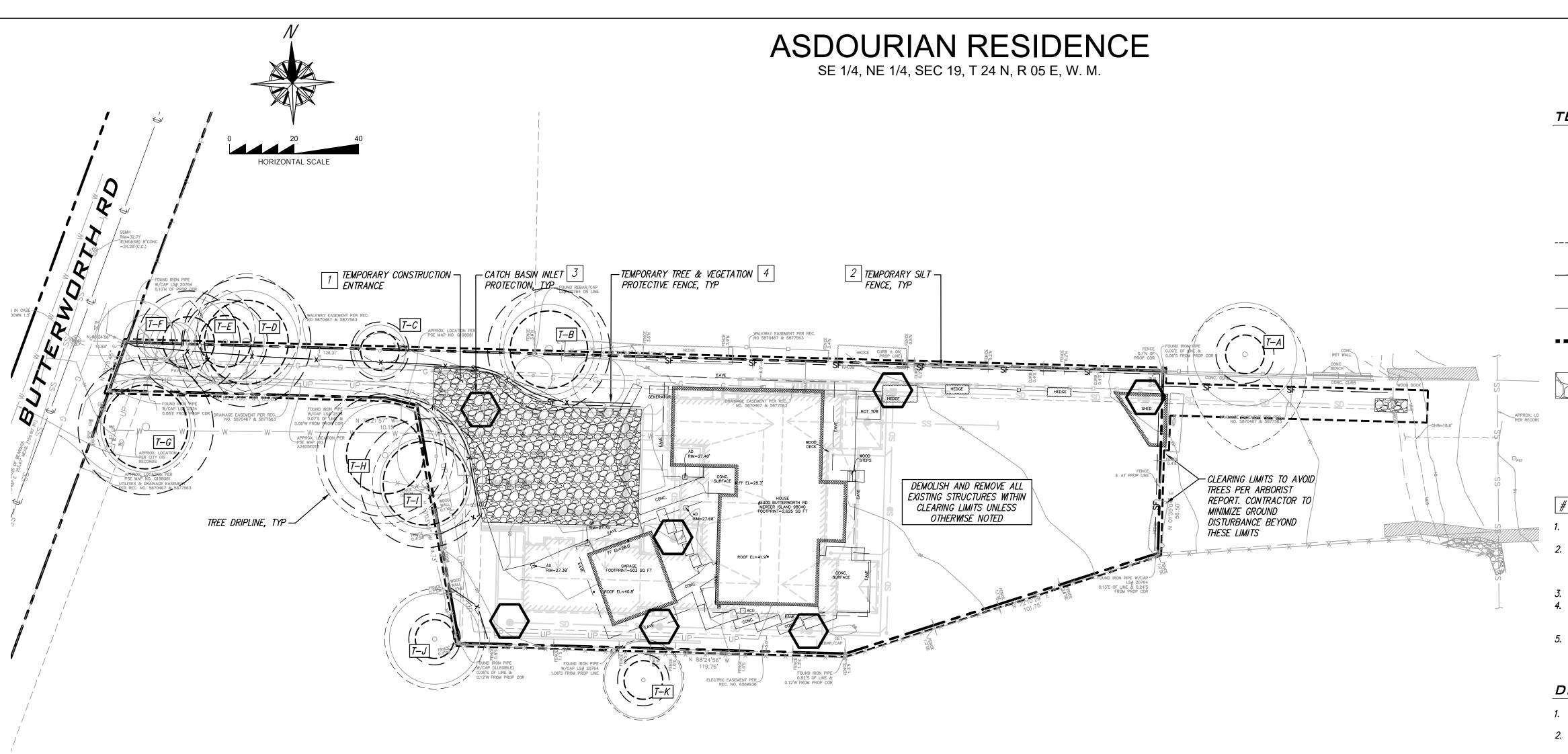
11/22/23

SD

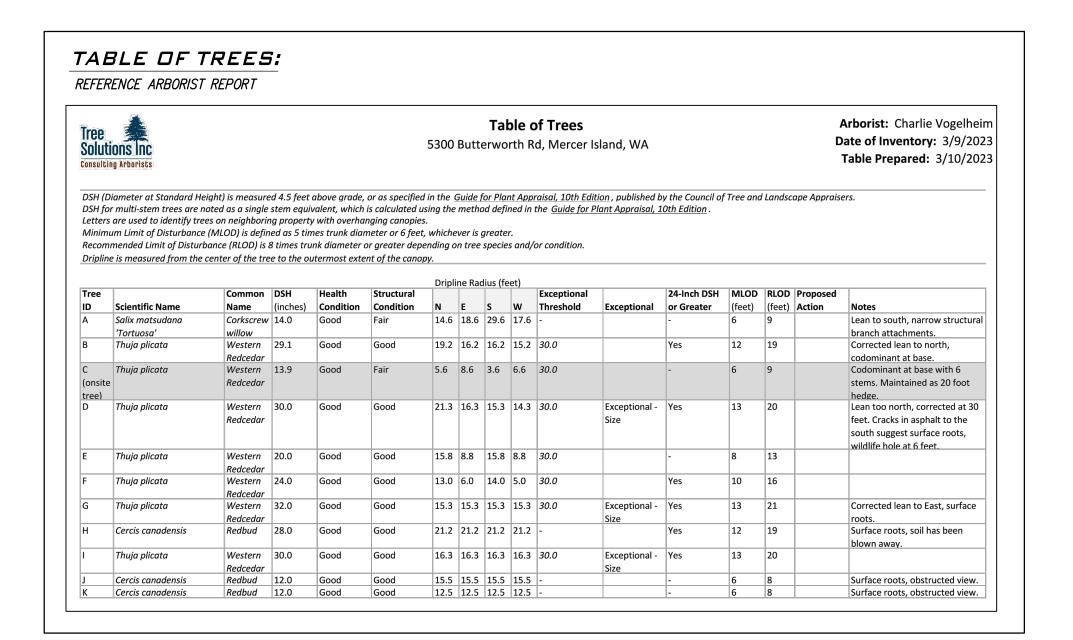
 $\triangleleft$ 

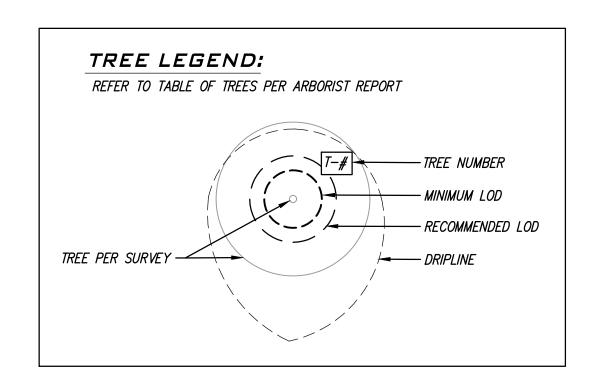
**AS SHOWN** PRAWING NO. C1.0

1 of 7

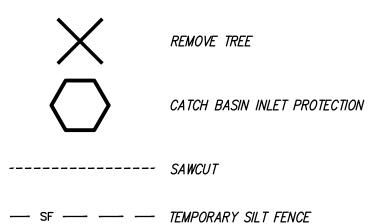


DEMOLITION & TESC PLAN





#### TESC LEGEND:



TEMPORARY TREE & VEGETATION PROTECTIVE FENCE

- - - - - CLEARING LIMITS

TEMPORARY CONSTRUCTION ENTRANCE

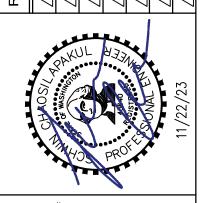
### DEMOLITION & TESC CALLOUTS:

- TEMPORARY CONSTRUCTION ENTRANCE (SEE DETAIL 1, SHEET C2.1). COORDINATE WITH SITE INSPECTOR FOR LOCATION AND EXTENTS.
- TEMPORARY SILT FENCE, TYP (SEE DETAIL 2, SHEET C2.1 AND TESC NOTE 4). ALTERNATIVELY, STRAW WATTLES MY BE USED TO LESSEN IMPACTS ON TREE ROOT SYSTEMS IMPLEMENTATION OF SEDIMENT CONTROL SYSTEMS TO BE COORDINATED WITH PROJECT ARBORIST FOR AREAS WITHIN TPZ.
- CATCH BASIN INLET PROTECTION, TYP (SEE DETAIL 3, SHEET C2.1).
- 4. TEMPORARY TREE & VEGETATION PROTECTIVE FENCE, TYP (SEE DETAIL 4, SHEET C2.1). SEE DEMOLITION & TESC NOTES, THIS SHEET, FOR ADDITIONAL TREE PROTECTION GUIDELINES.
- 5. SOILS OF DISTURBED PERVIOUS AREAS THROUGHOUT THE DURATION OF THE PROJECT ARE TO BE AMENDED, TYP.

#### DEMOLITION & TESC NOTES:

- 1. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION ON TREE
- 2. PRIOR TO BEGINNING ANY CONSTRUCTION, COORDINATE INSTALLATION OF TREE PROTECTION FENCING WITH GENERAL CONTRACTOR, CITY AND OWNERS REPRESENTATIVE PROJECT ARBORIST. COORDINATE GRADING AND SOIL PREPARATION ACTIVITIES AROUND EXISTING TREES TO REMAIN WITH GENERAL CONTRACTOR, OWNERS REPRESENTATIVE, PROJECT ARBORIST AND CITY.
- TREE PROTECTION BARRIERS SHALL BE INITIALLY ERECTED AT 5 FEET OUTSIDE THE DRIP LINE PRIOR TO MOVING ANY HEAVY EQUIPMENT ON SITE.
- TREE PROTECTION FENCING SHALL ONLY BE MOVED WHERE NECESSARY TO INSTALL IMPROVEMENTS, BUT ONLY AS CLOSE AS THE LIMITS OF DISTURBANCE, AS INDICATED IN THE ARBORIST REPORT.
- EXCAVATION LIMITS SHOULD BE LAID OUT IN PAINT ON THE GROUND TO AVOID OVER EXCAVATING.
- EXCAVATIONS WITHIN THE DRIP LINES SHALL BE MONITORED BY A QUALIFIED TREE PROFESSIONAL SO NECESSARY PRECAUTIONS CAN BE TAKEN TO DECREASE IMPACTS TO TREE PARTS. A QUALIFIED ARBORIST SHALL MONITOR EXCAVATIONS WHEN WORK IS REQUIRED AND ALLOWED UP TO THE "LIMITS OF DISTURBANCE." • TO ESTABLISH SUB GRADE FOR FOUNDATIONS, CURBS AND PAVEMENT SECTIONS
- NEAR THE TREES. SOIL SHOULD BE REMOVED PARALLEL TO THE ROOTS AND NOT AT 90-DEGREE ANGLES TO AVOID BREAKING AND TEARING ROOTS THAT LEAD BACK TO THE TRUNK WITHIN THE DRIP-LINE. ANY ROOTS DAMAGED DURING THESE EXCAVATIONS SHOULD BE EXPOSED TO SOUND TISSUE AND CUT CLEANLY WITH A
- AREAS EXCAVATED WITHIN THE DRIP LINE OF RETAINED TREES SHOULD BE THOROUGHLY IRRIGATED WEEKLY DURING DRY PERIODS.
- PREPARATIONS FOR FINAL LANDSCAPING SHALL BE ACCOMPLISHED BY HAND WITHIN THE DRIP LINES OF RETAINED TREES. PLANTINGS WITHIN THE DRIP LINES SHALL BE LIMITED. LARGE EQUIPMENT SHALL BE KEPT OUTSIDE OF THE TREE PROTECTION
- 4. FILTER/SILT FENCING WITHIN THE TPZ OF RETAINED TREES SHALL BE INSTALLED IN A MANNER THAT DOES NOT SEVER ROOTS. INSTALL SO THAT FILTER/SILT FENCING SITS ON THE GROUND AND IS WEIGHED IN PLACE BY SANDBAGS OR GRAVEL. DO NOT TRENCH TO INSERT FILTER/SILT FENCING INTO THE GROUND. REFER TO PROJECT ARBORIST TREE PROTECTION SPECIFICATIONS ON C2.1.

DESCRIPTION				
DATE				
R#	$\langle$			



Y OF BUILI 

23109 CC

SID RE

OURIAN S  $\triangleleft$ 

CALL 48 HOURS BEFORE YOU DIG 811

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 1-800-424-5555 OR 811 (CELL) A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

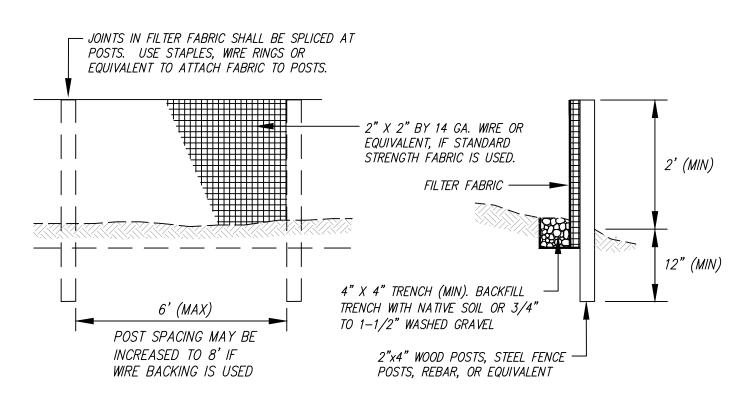
11/22/23 **AS SHOWN** C2.0

2 of 7

#### NOTES:

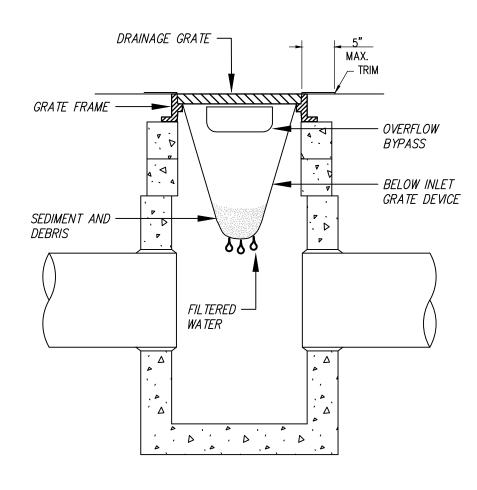
- 1. PER KING COUNTY ROAD DESIGN AND CONSTRUCTION STANDARDS (KCRDCS), DRIVEWAYS SHALL BE PAVED TO EDGE OF R-O-W PRIOR TO INSTALLATION OF THE CONSTRUCTION ENTRANCE TO AVOID DAMAGING OF THE ROADWAY.
- 2. IT IS RECOMMENDED THAT THE ENTRANCE BE CROWNED SO THAT RUNOFF DRAINS OFF THE

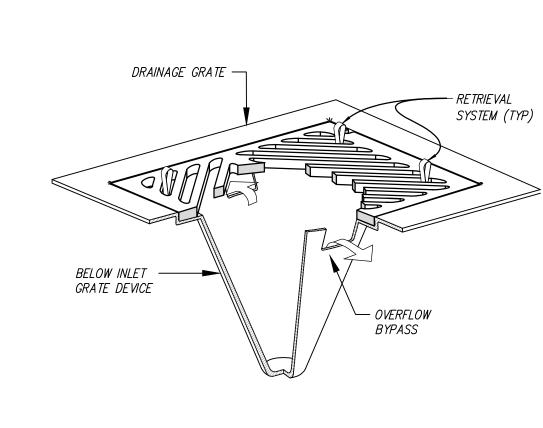




1. SILT FILTER FABRIC FENCES SHALL BE INSTALLED ALONG CONTOURS WHENEVER POSSIBLE







#### NOTES:

- 1. SIZE THE BELOW INLET GRATE DEVICE (BIGD) FOR THE STORM WATER STRUCTURE IT WILL SERVICE.
- 2. THE BIGD SHALL HAVE A BUILT-IN HIGH-FLOW RELIEF SYSTEM (OVERFLOW BYPASS). 3. THE RETRIEVAL SYSTEM MUST ALLOW REMOVAL OF THE BIGD WITHOUT SPILLING THE COLLECTED MATERIAL.
- 4. PERFORM MAINTENANCE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 8-01.3(15).

CATCH BASIN INLET PROTECTION C2.0 | SCALE: NTS

# DEFINES TREE & VEGETATION PROTECTION AREA REQUIRED REQUIRED SIGNAGE *FENCING* TREE & VEGETATION FENCING AROUND ENTIRE DRIP LINE ON PERMIT SITE.

COORDINATE WITH PROJECT ARBORIST.

#### TREE PROTECTION FENCING AND SIGN

- 1. CHAIN LINK, WIRE MESH, OR SIMILAR OPEN RIGID MATERIAL (NO
- 2. MUST BE INSTALLED PRIOR TO DEMOLITION OR GROUND
- 3. KEPT IN PLACE FOR THE DURATION OF CONSTRUCTION
- 4. NO SOIL DISTURBANCE OR ACTIVITY ALLOWED WITHIN FENCED AREA: MATERIAL STORAGE/STOCKPILING, PARKING, EXCAVATION, DUMPING, OR WASHING
- 5. MODIFICATIONS OF THESE REQUIREMENTS BY APPROVAL OF SDCI
- 6. IF ROOTS GREATER THAN 2 INCH FOUND OUTSIDE OF FENCING, PROTECT BY HAND EXCAVATION AND, IF NECESSARY, CUT CLEANLY
- 7. USE 3 INCHES OR DEEPER WOOD CHIP MULCH OUTSIDE FENCED AREAS TO PROTECT FEEDER ROOTS

#### VEGETATION PROTECTION

- 1. ORANGE MESH OR SIMILAR OPEN MATERIAL
- 2. MINIMIZE CONSTRUCTION ZONE
- 3. PROTECT VEGETATION OUTSIDE CONSTRUCTION ZONE WITH FENCING
- 4. USE 3 INCHES OR DEEPER WOOD CHIP MULCH OUTSIDE FENCED AREAS TO PROTECT FEEDER ROOTS

Tree Solutions Inc., Consulting Arborists

Asdourian: 5300 Butterworth Rd, Mercer Island, WA 98040 3.13.2023

Appendix F Tree Protection Specifications The following is a list of protection measures that must be employed before, during and after construction to ensure the long-term viability of retained trees.

- 1. Project Arborist: The project arborists shall at minimum have an International Society of Arboriculture (ISA) Certification and ISA Tree Risk Assessment Qualification.
- 2. Tree Protection Zone (TPZ): The city of Mercer Island requires a tree protection zone (TPZ) congruent with the Recommend Limits of Disturbance (RLOD) established by the project arborist. The RLOD must be consistent with current ISA BMPs. In some cases, the TPZ may extend outside tree protection fencing. Work within the TPZ must be approved and monitored by the project
- 3. Tree Protection Fencing: Tree protection shall consist of 6-foot chain-link fencing installed at the TPZ as approved by the project arborist. Fence posts shall be anchored into the ground or bolted to
- existing hardscape surfaces. a. Where trees are being retained as a group the fencing shall encompass the entire area
  - including all landscape beds or lawn areas associated with the grove. b. Per arborist approval, TPZ fencing may be placed at the edge of existing hardscape
  - within the TPZ to allow for staging and traffic. c. Where work is planned within the TPZ, install fencing at edge of TPZ and move to limits of disturbance at the time that the work within the TPZ is planned to occur. This ensures
- that work within the TPZ is completed to specification. d. Where trees are protected at the edge of the project boundary, construction limits
- fencing shall be incorporated as the boundary of tree protection fencing. 4. Access Beyond Tree Protection Fencing: In areas where work such as installation of utilities is required within the TPZ, a locking gate will be installed in the fencing to facilitate access. The project
- manager or project arborist shall be present when tree protection areas are accessed. 5. Tree Protection Signage: Tree protection signage shall be affixed to fencing every 20 feet. Signage shall be fluorescent, at least 2' x 2' in size, with 3" tall text. Signage will note: "Tree Protection Area - Do Not Enter: Entry into the tree protection area is prohibited unless authorized by the project manager." Signage shall include the contact information for the project manager and instructions
- for gaining access to the area. 6. Filter / Silt Fencing: Filter / silt fencing within the TPZ of retained trees shall be installed in a manner that does not sever roots. Install so that filter / silt fencing sits on the ground and is weighed in place by sandbags or gravel. Do not trench to insert filter / silt fencing into the ground.
- 7. Monitoring: The project arborist shall monitor all ground disturbance at the edge of or within the TPZ, including where the TPZ extends beyond the tree protection fencing.
- 8. Soil Protection: No parking, foot traffic, materials storage, or dumping (including excavated soils) are allowed within the TPZ. Heavy machinery shall remain outside of the TPZ. Access to the tree protection area will be granted under the supervision of the project arborist. If project arborist allows, heavy machinery can enter the area if soils are protected from the load. Acceptable methods of soil protection include applying 3/4-inch plywood over 4 to 6 inches of wood chip mulch or use of AlturnaMats® (or equivalent product approved by the project arborist). Retain existing paved surfaces within or at the edge of the TPZ for as long as possible.
- 9. Soil Remediation: Soil compacted within the TPZ of retained trees shall be remediated using pneumatic air excavation according to a specification produced by the project arborist.
- 10. Canopy Protection: Where fencing is installed at the limits of disturbance within the TPZ, canopy management (pruning or tying back) shall be conducted to ensure that vehicular traffic does not

Asdourian: 5300 Butterworth Rd, Mercer Island, WA 98040

- damage canopy parts. Exhaust from machinery shall be located five feet outside the dripline of retained trees. No exhaust shall come in contact with foliage for prolonged periods of time. 11. **Duff/Mulch:** Apply 6 inches of arborist wood chip mulch or hog fuel over bare soil within the TPZ to prevent compaction and evaporation. TPZ shall be free of invasive weeds to facilitate mulch application. Keep mulch 1 foot away from the base of trees and 6 inches from retained understory
- 12. Excavation: Excavation done at the edge of or within the TPZ shall use alternative methods such as pneumatic air excavation or hand digging. If heavy machinery is used, use flat front buckets with the project arborist spotting for roots. When roots are encountered, stop excavation, and cleanly sever
- roots. The project arborist shall monitor all excavation done within the TPZ. 13. Fill: Limit fill to 1 foot of uncompacted well-draining soil, within the TPZ of retained trees. In areas where additional fill is required, consult with the project arborist. Fill must be kept at least 1 foot from the trunks of trees.
- 14. Root Pruning: Limit root pruning to the extent possible. All roots shall be pruned with a sharp saw making clean cuts. Do not fracture or break roots with excavation equipment.
- 15. Root Moisture: Root cuts and exposed roots shall be immediately covered with soil, mulch, or clear polyethylene sheeting and kept moist. Water to maintain moist condition until the area is back filled. Do not allow exposed roots to dry out before replacing permanent back fill.
- 16. Hardscape Removal: Retain hardscape surfaces for as long as practical. Remove hardscape in a manner that does not require machinery to traverse newly exposed soil within the TPZ. Where equipment must traverse the newly exposed soil, apply soil protection as described in section 8. Replace fencing at edge of TPZ if soil exposed by hardscape removal will remain for any period of
- 17. Tree Removal: All trees to be removed that are located within the TPZ of retained trees shall not be ripped, pulled, or pushed over. The tree should be cut to the base and the stump either left or ground out. A flat front bucket can also be used to sever roots around all sides of the stump, or the roots can be exposed using hydro or air excavation and then cut before removing the stump. 18. Irrigation: Retained trees with soil disturbance within the TPZ will require supplemental water from

June through September. Acceptable methods of irrigation include drip, sprinkler, or watering truck.

- Trees shall be watered three times per month during this time. 19. Pruning: Pruning required for construction and safety clearance shall be done with a pruning specification provided by the project arborist in accordance with American National Standards Institute ANSI-A300 2017 Standard Practices for Pruning. Pruning shall be conducted or monitored
- 20. Plan Updates: All plan updates or field modification that result in impacts within the TPZ or change the retained status of trees shall be reviewed by the senior project manager and project arborist prior to conducting the work.
- 21. Materials: Contractor shall have the following materials onsite and available for use during work in
- Sharp and clean bypass hand pruners

Tree Solutions Inc., Consulting Arborists

- Sharp and clean bypass loppers
- Sharp hand-held root saw Clear polyethylene sheeting Reciprocating saw with new blades
  - Burlap Water

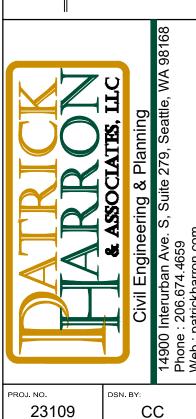
CALL 48 HOURS BEFORE YOU DIG 811

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 1-800-424-5555 OR 811 (CELL) A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

5 TREE PROTECTION SPECIFICATIONS C2.0 / (PER ARBORIST REPORT BY TREE SOLUTIONS, INC.)

7 TREE & VEGETATION PROTECTIVE FENCE

MERCER DING PER 9 = S CITY



ENC SID RE

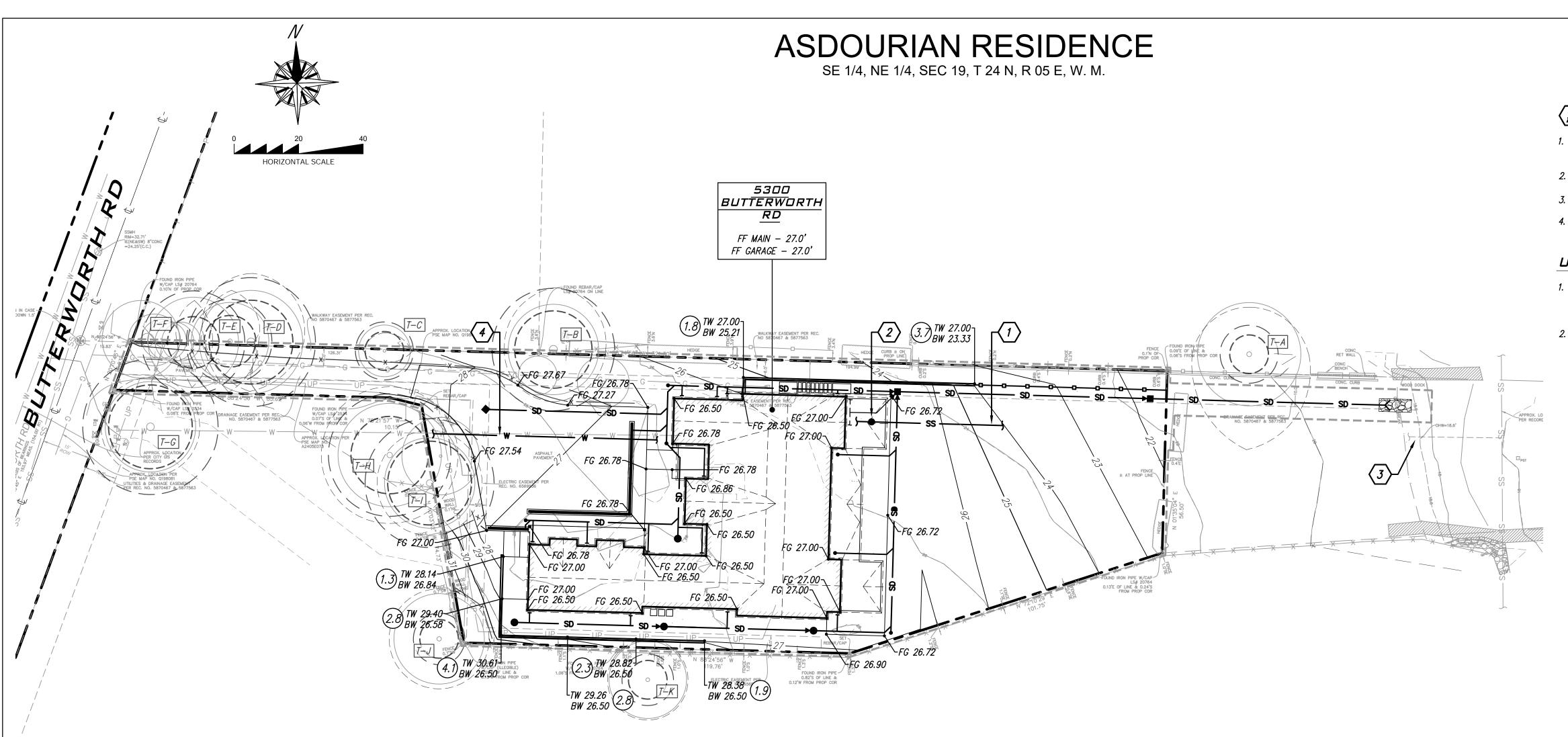
CC

OURIAN

S

11/22/23 **AS SHOWN** 

C2.1



GRADING & UTILITY PLAN

SCALE: 1"=20'

(#) UTILITY CALLOUTS:

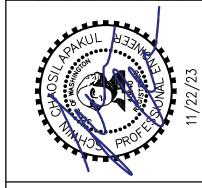
- 1. INSTALL 6" PVC SANITARY SIDE SEWER @ 2.0% (MIN), PER CITY OF MERCER ISLAND STD. PLAN NO. S—3 AND S—18 (SEE DETAIL 1 AND 2, SHEET C3.3 AND UTILITY
- 2. INSTALĹ SANITARY SEWER CLEANOUT, PER CITY OF MERCER ISLAND STD. PLAN NO.
- S-19, TYP (SEE DETAIL 3, SHEET C3.3).

  3. EXISTING 6" SIDE SEWER SERVICE (SS-LL-07248) FOR 5300 BUTTERWORTH RD, PER CITY OF MERCER ISLAND GIS.

  4. SEE UTILITY NOTE 1.

#### UTILITY NOTES:

- 1. THE EXISTING WATER METER IS 3/4", PER CITY OF MERCER ISLAND GIS. SIZES OF WATER SERVICE (SERVICE FROM MAIN TO METER, METER, AND SERVICE FROM METER TO BUILDING) TO BE VERIFIED FOR ADEQUATE CAPACITY TO SUPPORT DOMESTIC
- AND FIRE DEMANDS (BY OTHERS). 2. LOCATE THE EX. SIDE SEWER AND UTILIZE IF LOCATION AND ELEVATION WORKS WITH THE PROPOSED PLAN (COORDINATE WITH PUBLIC WORKS INSPECTOR FOR RE-USE). THE EX. SIDE SEWER CONDITION MUST BE VIDEOED FOR INSPECTION AND COORDINATED WITH THE PUBLIC WORKS INSPECTOR.



CITY OF MERCER ISLAND BUILDING PERMIT



		Т Ц
PROJ. NO.	DSN. BY:	
23109	С	С
DWN. BY:	CHK. BY:	
CC	S	С
•		

**ASDOURIAN** 

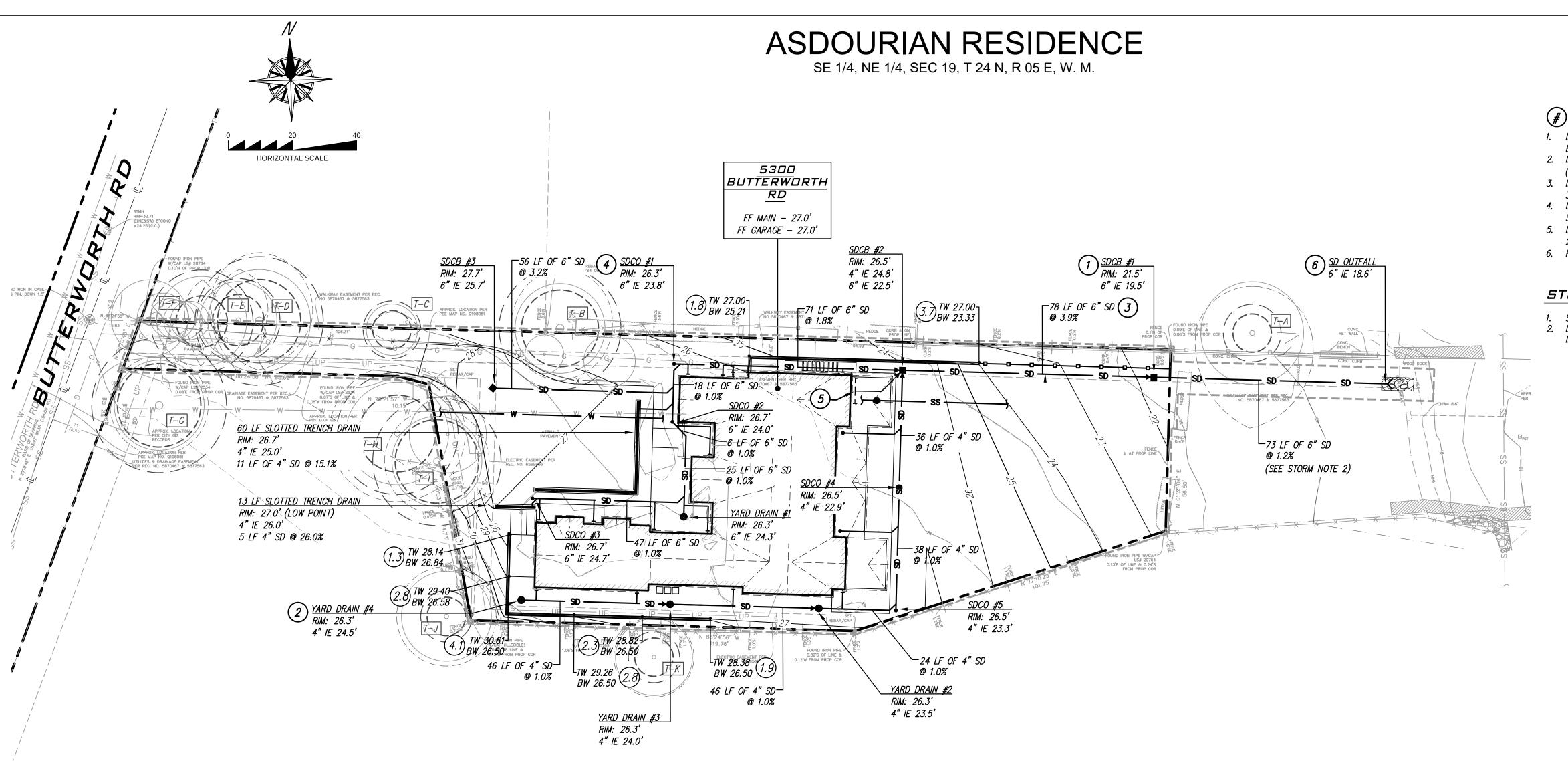
THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 1-800-424-5555 OR

811 (CELL) A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

CALL 48 HOURS BEFORE YOU DIG 811

SIDENCE RE

11/22/23 **AS SHOWN** drawing no. C3.0



STORM DRAINAGE PLAN

SCALE: 1"=20'

# STORM DRAINAGE CALLOUTS:

- 1. INSTALL STORM DRAIN CATCH BASIN TYPE 1, PER WSDOT STD. PLAN NO.
- B-5.20-03, TYP (SEE DETAIL 1, SHEET C3.2). 2. INSTALL STORM DRAIN AREA DRAIN, PER WSDOT STD. PLAN NO. B-10.70-02, TYP (SEE DETAIL 2, SHEET C3.2).
- 3. INSTALL STORM DRAIN, PER WSDOT STD. PLAN NO. B-55.20-03, TYP (SEE DETAIL
- 3, SHEET C3.2 AND STORM DRAINAGE NOTE 2).
  4. INSTALL STORM DRAIN CLEANOUT, PER CITY OF MERCER ISLAND STD. PLAN NO. S-19, TYP (SEE DETAIL 4, SHEET C3.2).
- 5. INSTALL PERFORATED FOOTING DRAIN AROUND ENTIRE BUILDING FOUNDATION (4" IE 25.0'). 18 LF 4" SD AT 1.0%. CONNECT TO SDCB #2.
- 6. PROPOSED STORM DRAINAGE OUTFALL LOCATION (6" IE 18.6').

#### STORM DRAINAGE NOTES:

SOILS OF DISTURBED PERVIOUS AREAS TO BE AMENDED, TYP.
 DIRECTIONAL BORING FOR INSTALLATION OF STORM LINE UNDER TREE ROOT SYSTEM IF REQUIRED. COORDINATE WITH PROJECT ARBORIST.



CITY OF MERCER ISLAND BUILDING PERMIT DRAIN/ LAN



PROJ. NO. 23109	DSN. BY:	С
DWN. BY:	снк. ву: <b>S</b> (	C

SIDENC RE **ASDOURIAN** 

11/22/23

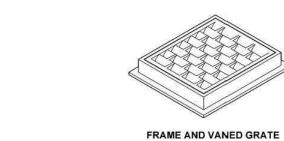
AS SHOWN C3.1

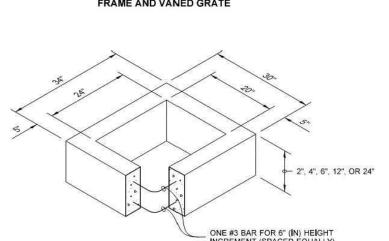
THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 1-800-424-5555 OR 811 (CELL) A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

CALL 48 HOURS BEFORE YOU DIG 811

# ASDOURIAN RESIDENCE

SE 1/4, NE 1/4, SEC 19, T 24 N, R 05 E, W. M.





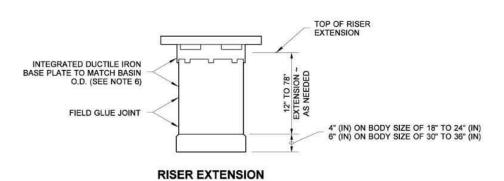
RECTANGULAR ADJUSTMENT SECTION

PRECAST BASE SECTION

PIPE MATERIAL	MAXIMUM INSIDE DIAMETER (INCHES)
REINFORCED OR PLAIN CONCRETE	12"
ALL METAL PIPE	15"
CPSSP * (STD, SPEC, SECT, 9-05,20)	12"
SOLID WALL PVC (STD. SPEC. SECT. 9-05,12(1))	15"
PROFILE WALL PVC (STD. SPEC. SECT. 9-05.12(2))	15"

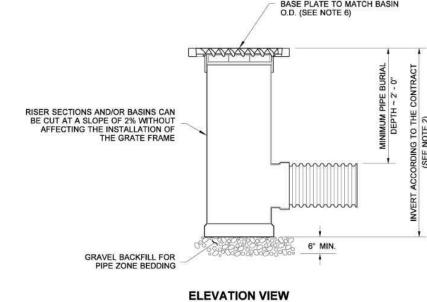
- 1. As acceptable alternatives to the rebar shown in the PRECAST BASE SECTION, fibers (placed according to the Standard Specifications), or wire mesh having a minimum area of 0.12 square inches per foot shall be used with the minimum required rebar shown in the ALTERNATIVE PRECAST BASE SECTION. Wire mesh shall not be placed in the
- 2. The knockout diameter shall not be greater than 20" (in). Knockouts shall have a wall thickness of 2" (in) minimum to 2.5" (in) maximum. Provide a 1.5" (in) minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification Section 9-04.3.
- 3. The maximum depth from the finished grade to the lowest pipe invert shall be 5' (ft).
- 4. The frame and grate may be installed with the flange down, or integrally cast into the adjustment section with flange up.
- 5. The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1: 24 or steeper.
- 6. The opening shall be measured at the top of the Precast Base Section.
- 7. All pickup holes shall be grouted full after the basin has been placed.





AVALIABLE

**BASIN BODY** 



2 AREA DRAIN

C3.1 / SCALE: NTS



1. Drain basin to be custom manufactured according to plan details. Risers are needed for basins

over 84" (in) due to shipping restrictions. The maximum depth from finished grade to the lowest

2. Drainage connections shall utilize flexible elastometric seals conforming to ASTM F477 and shall

3. Risers can be trimmed down to 3" (in) extension without interfering with the installation of the frame.

These structures can be used for Type 1, Type 1L, and Type 2 structures. Usage for the Type 2 structures shall be limited to pipe size use only.

Basins shall be manufactured from PVC pipe stock meeting the requirements of ASTM D1784, cell classification 12454.

Ductile iron castings for PVC catch basins shall conform to the requirements of ASTM A536, grade 70-50-05, and shall meet the proof load testing requirements of AASHTO M 306.

7. Bolt-down capability is required on all frames, grates, and covers, unless specified otherwise in the Contract. Provide 2 holes in the frame that are vertically aligned with the grate or cover slots. The frame shall accept the 304 Stainless Steel (S.S.) 5/8" (in) - 11 NC × 2" (in) allen head cap

screw by being tapped, or other approved mechanism. Location of bolt-down holes varies by manufacturer.

8. This item requires approval from HQ Hydraulics before use on a project.

9. Optional ladder is available for 36" diameter catch basin.

meet the requirements of ASTM D3212.

**CATCH BASIN - PVC** 

STANDARD PLAN B-10.70-02 SHEET 1 OF 1 SHEET APPROVED FOR PUBLICATION 2200 Aug 17, 2021 Washington State Department of Transportation





1. See Standard Specifications Section 7-08.3(3)

2. See Standard Specifications Section 9-03.12(3) for Gravel Backfill for Pipe Zone Bedding. 3. See Standard Specifications Section 2-09.4

4. For sanitary sewer installation, concrete pipe shall

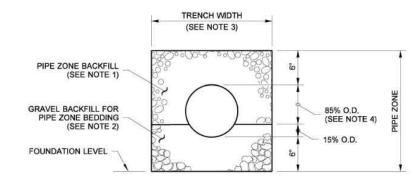
for Measurement of Trench Width.

be imbedded to spring line.



#3 BAR EACH CORNER 18" (IN) MIN.

#3 BAR HOOP

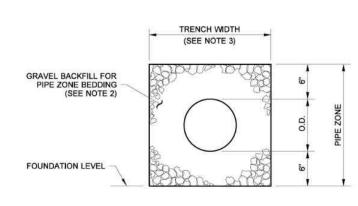


#3 BAR EACH CORNER

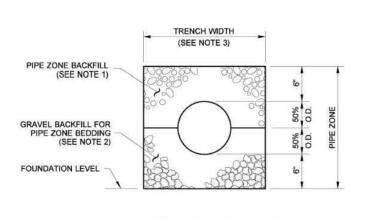
#3 BAR HOOP -

#3 BAR EACH WAY -

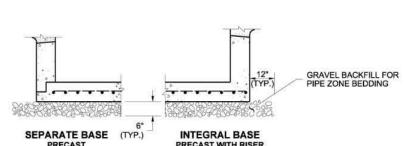
CONCRETE AND DUCTILE IRON PIPE

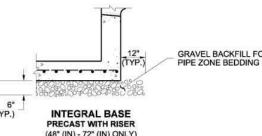


THERMOPLASTIC PIPE

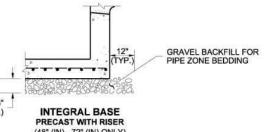


METAL AND STEEL RIB REINFORCED POLYETHYLENE PIPE

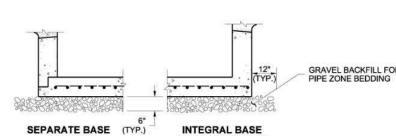




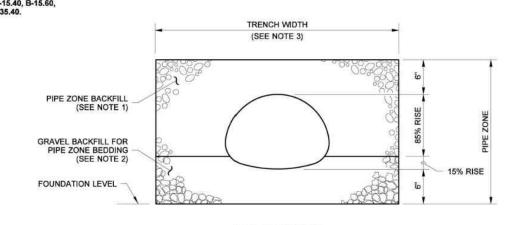
ALTERNATIVE PRECAST BASE SECTION



(48" (IN) - 72" (IN) ONLY)

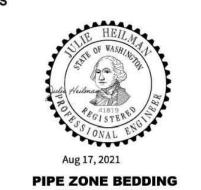


TYPICAL CONDITION FOR DRAINAGE STRUCTURE



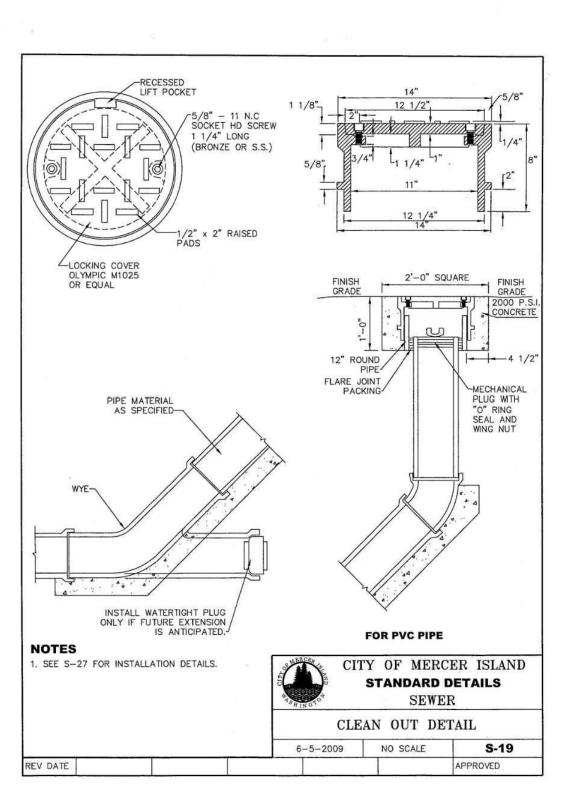
PIPE ARCHES

	NCE BETWEE TIPLE INSTAL	
PIPE	SIZE	MINIMUM DISTANCE BETWEEN BARRELS
CIRCULAR PIPE (DIAMETER)	UP TO 48"	24"
METAL PIPE ARCH (SPAN)	48" AND LARGER	DIAMETER/2 OR 36" WHICHEVER IS LESS



AND BACKFILL STANDARD PLAN B-55.20-03 SHEET 1 OF 1 SHEET APPROVED FOR PUBLICATION 22-36 Aug 17, 2021 STATE DESIGN ENGINEER Washington State Department of Transportation





(4) **5-19** C3.1 SCALE: NTS

CALL 48 HOURS BEFORE YOU DIG 811

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 1-800-424-5555 OR 811 (CELL) A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

F MERCER ISLAND LDING PERMIT CITY OF BUILE

23109 CC

SIDENC RE OURIAN

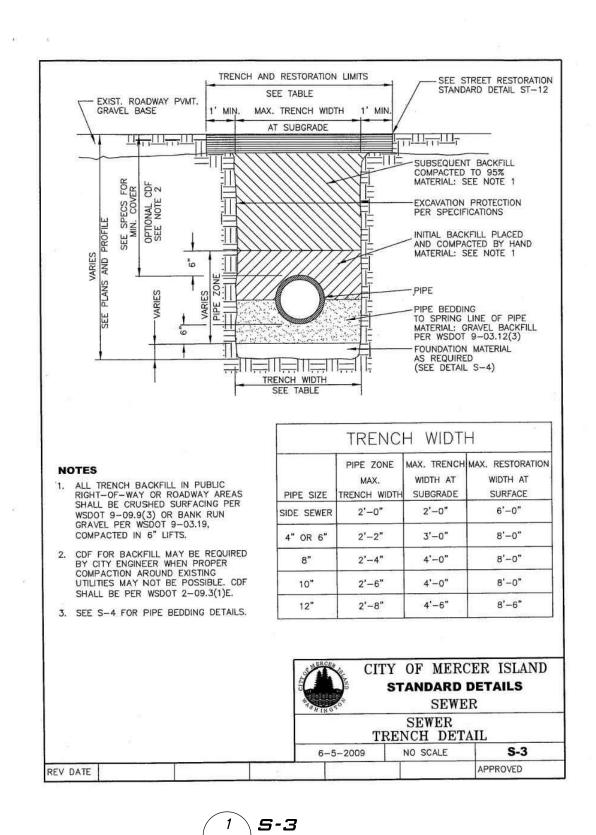
 $\triangleleft$ 11/22/23

AS SHOWN C3.2

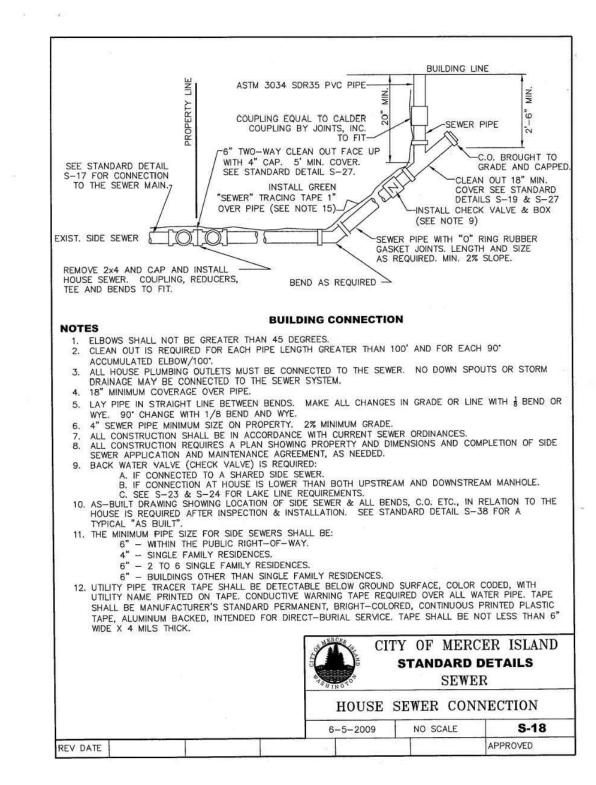
SD

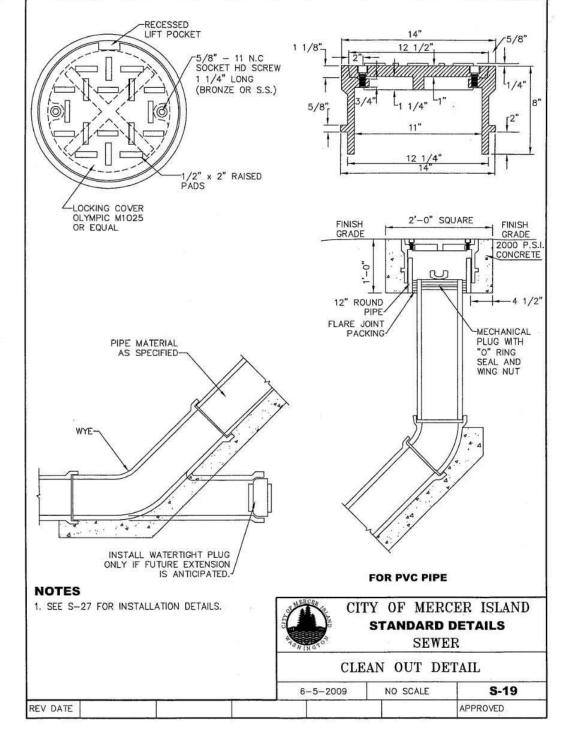
# ASDOURIAN RESIDENCE

SE 1/4, NE 1/4, SEC 19, T 24 N, R 05 E, W. M.



*C3.0 ∫ SCALE: NTS* 









CALL 48 HOURS BEFORE YOU DIG 811 THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 1-800-424-5555 OR 811 (CELL) A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

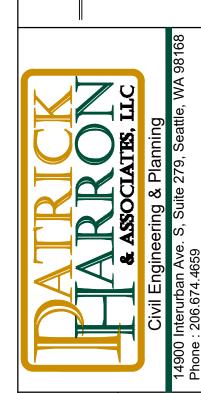
R# DATE DESCRIPTION

SVAN

SVA



CITY OF MERCER ISLAND
BUILDING PERMIT
JTILITY DETAILS



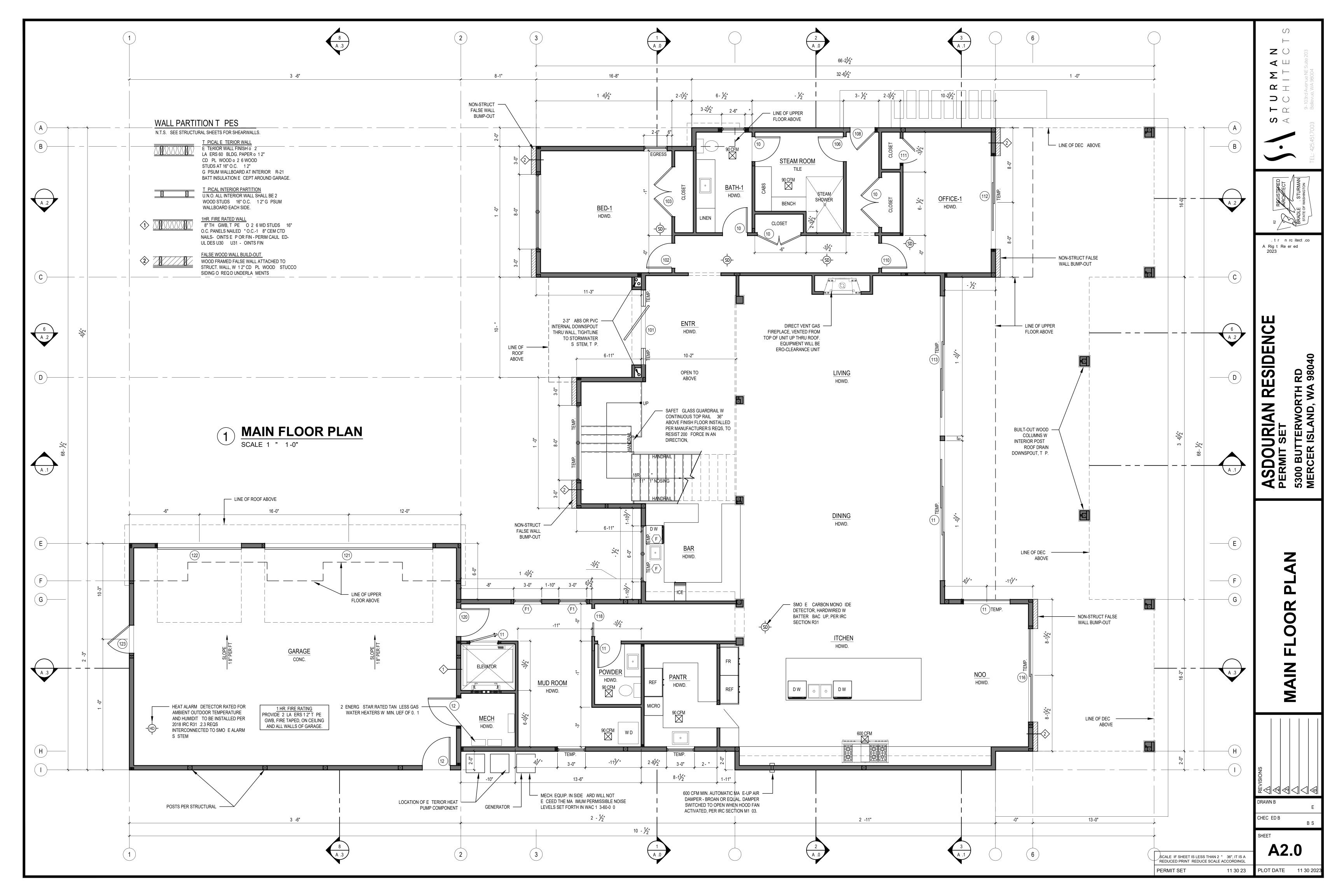
PROJ. NO. 23109	DSN. BY:
DWN. BY:	CHK. BY:
	•

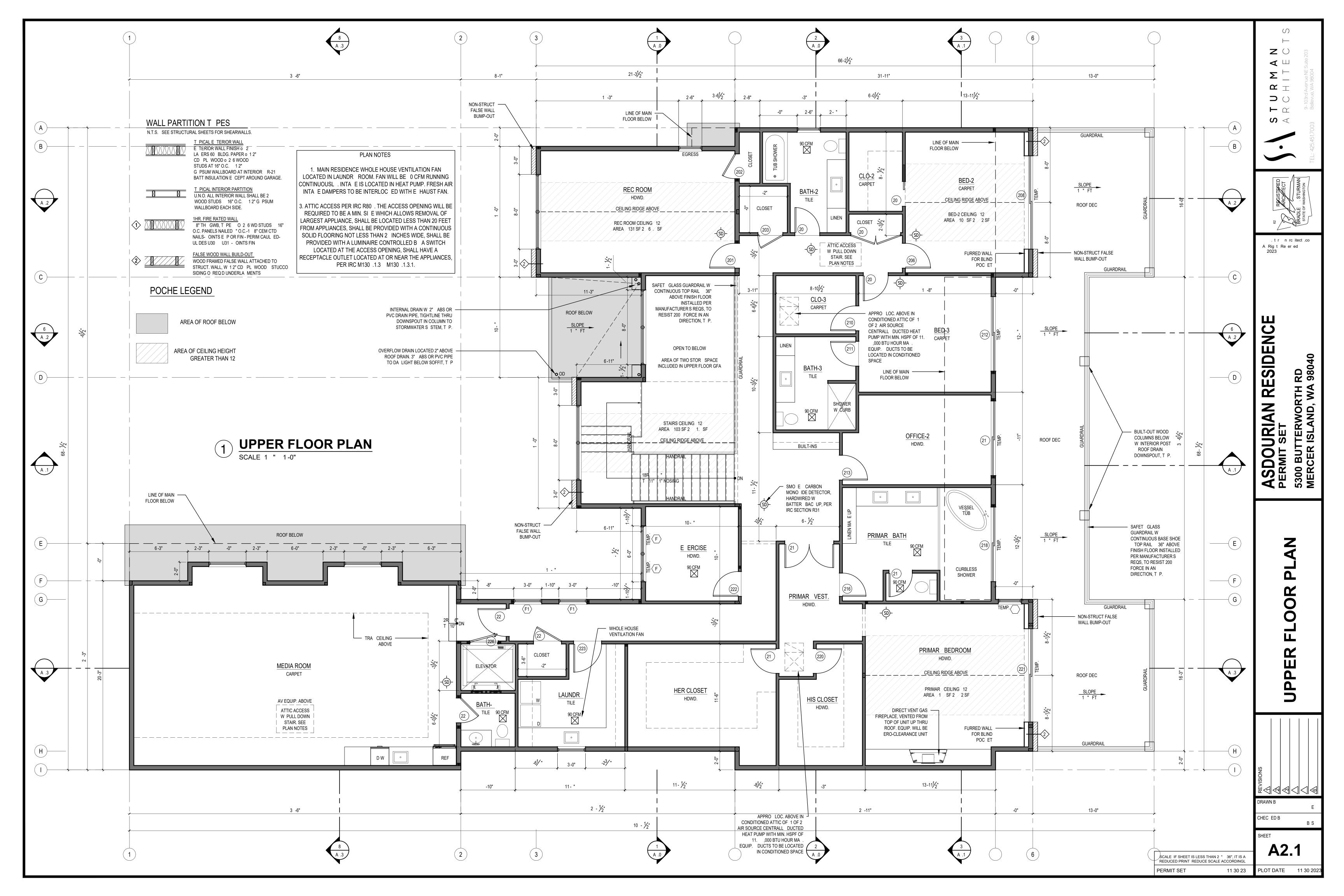
ASDOURIAN RESIDENCE

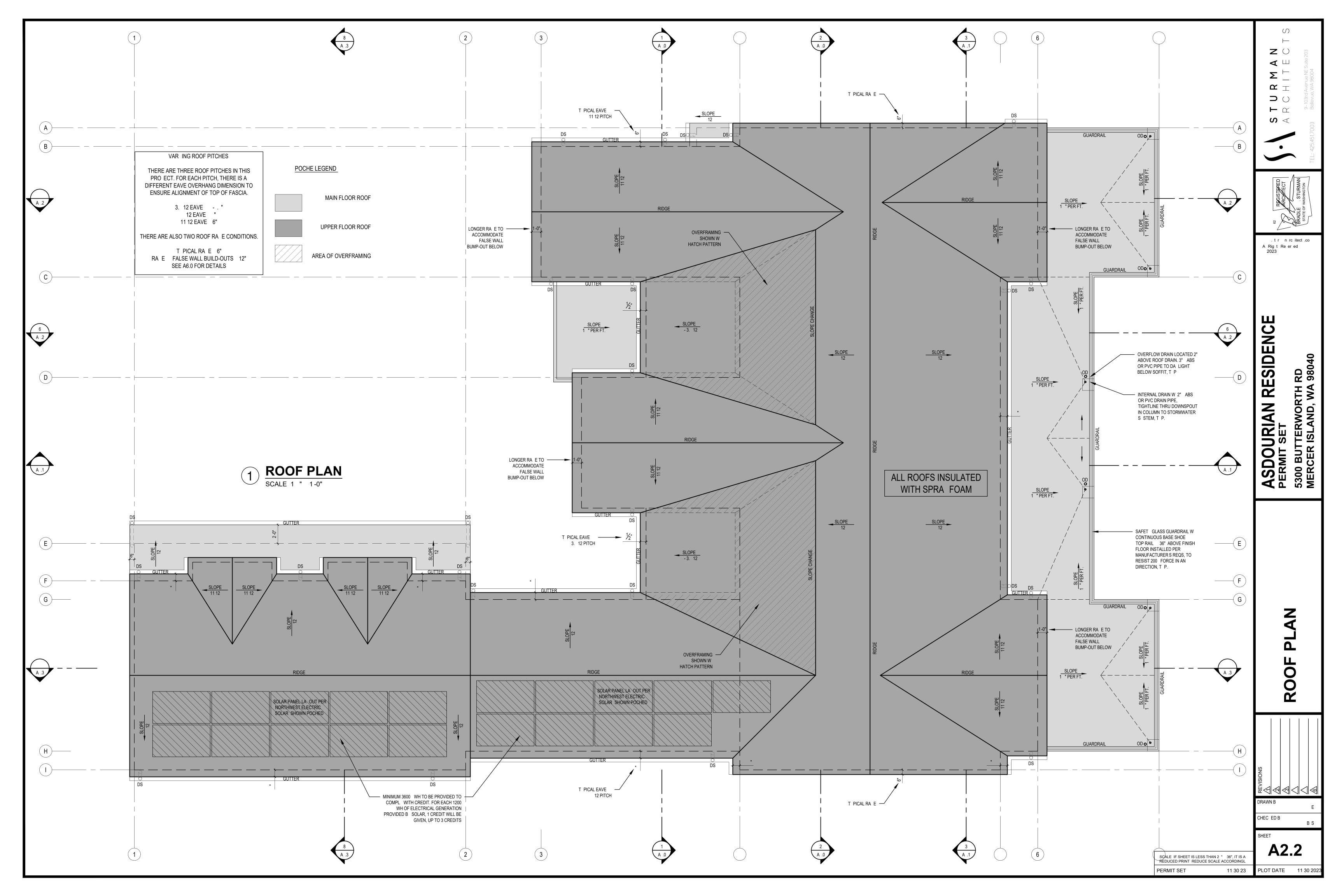
DATE: 11/22/23

SCALE: AS SHOWN

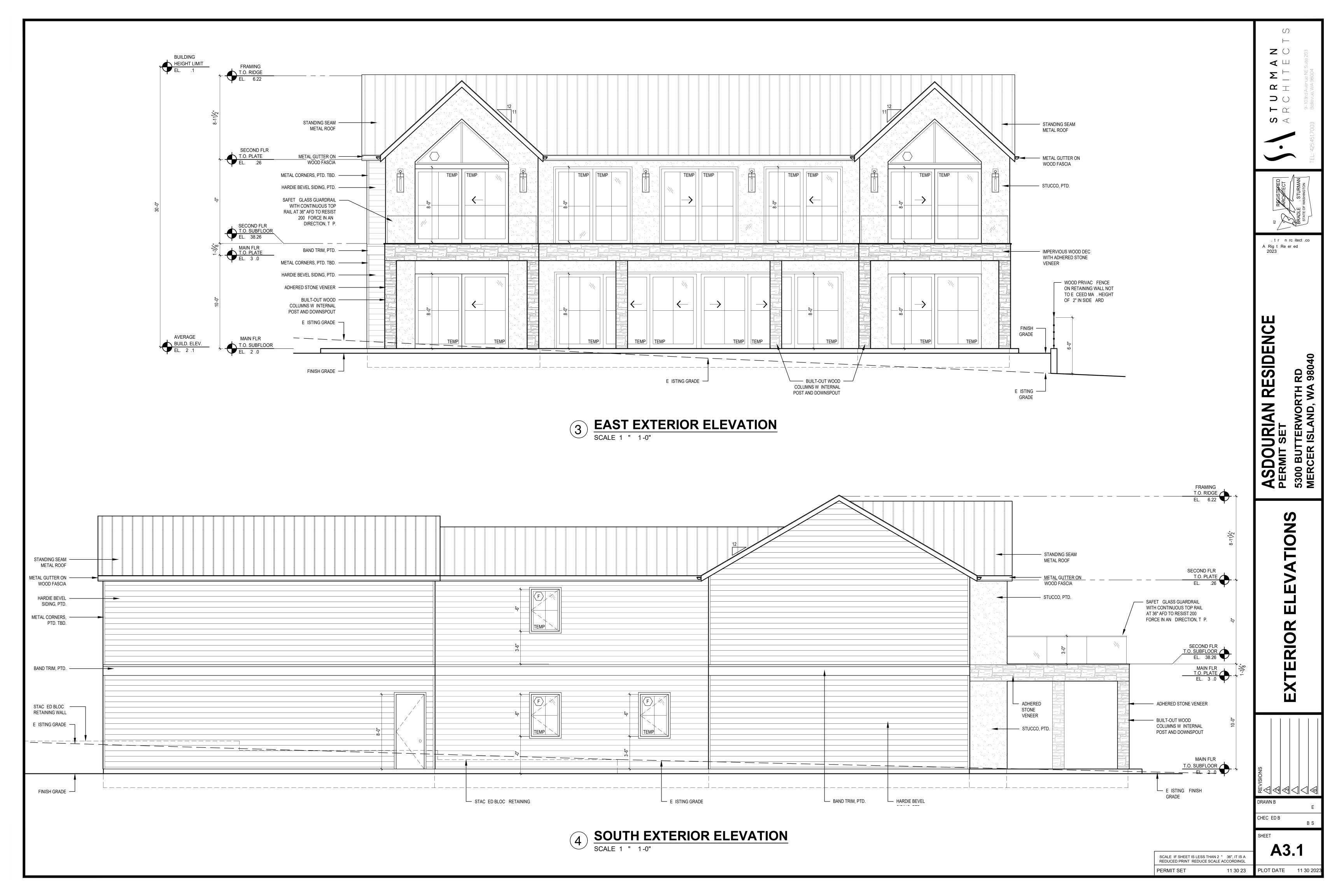
DRAWING NO. C3.3

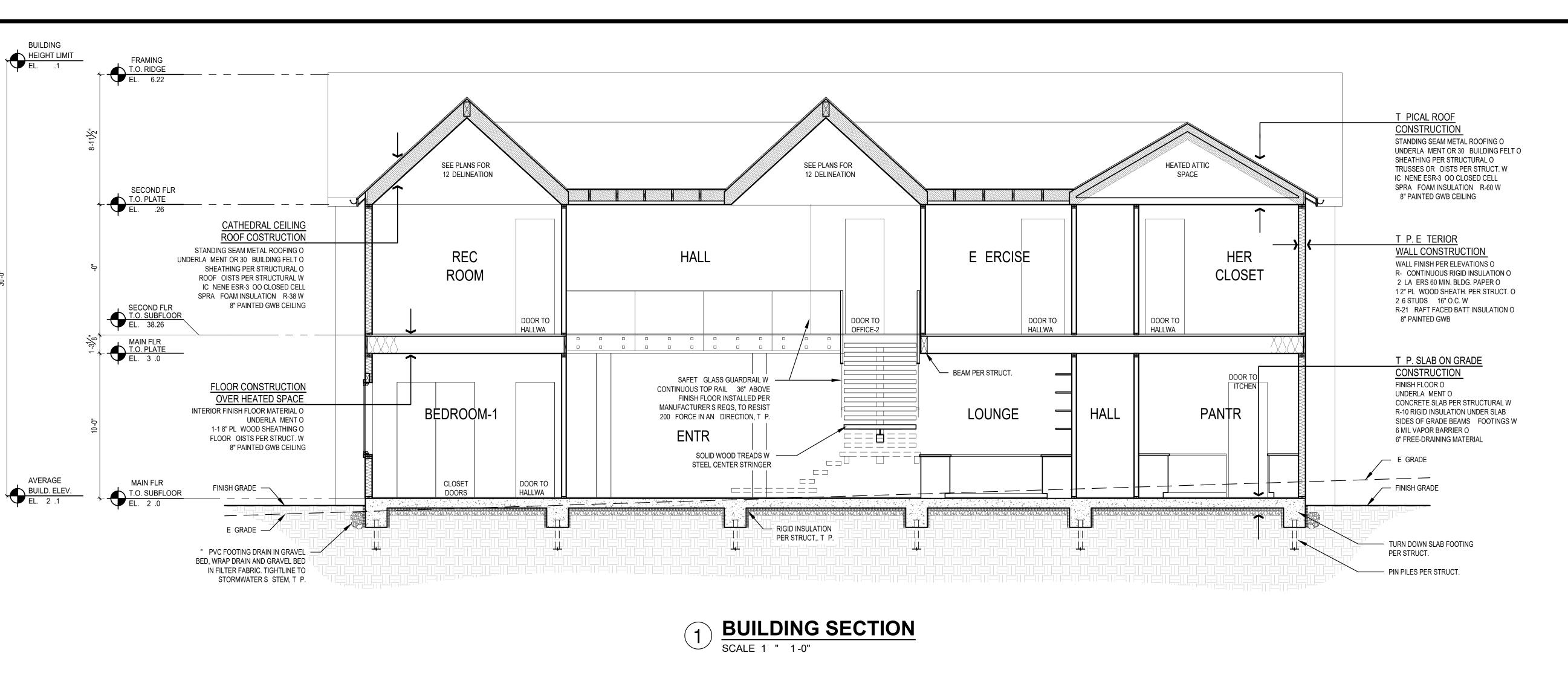


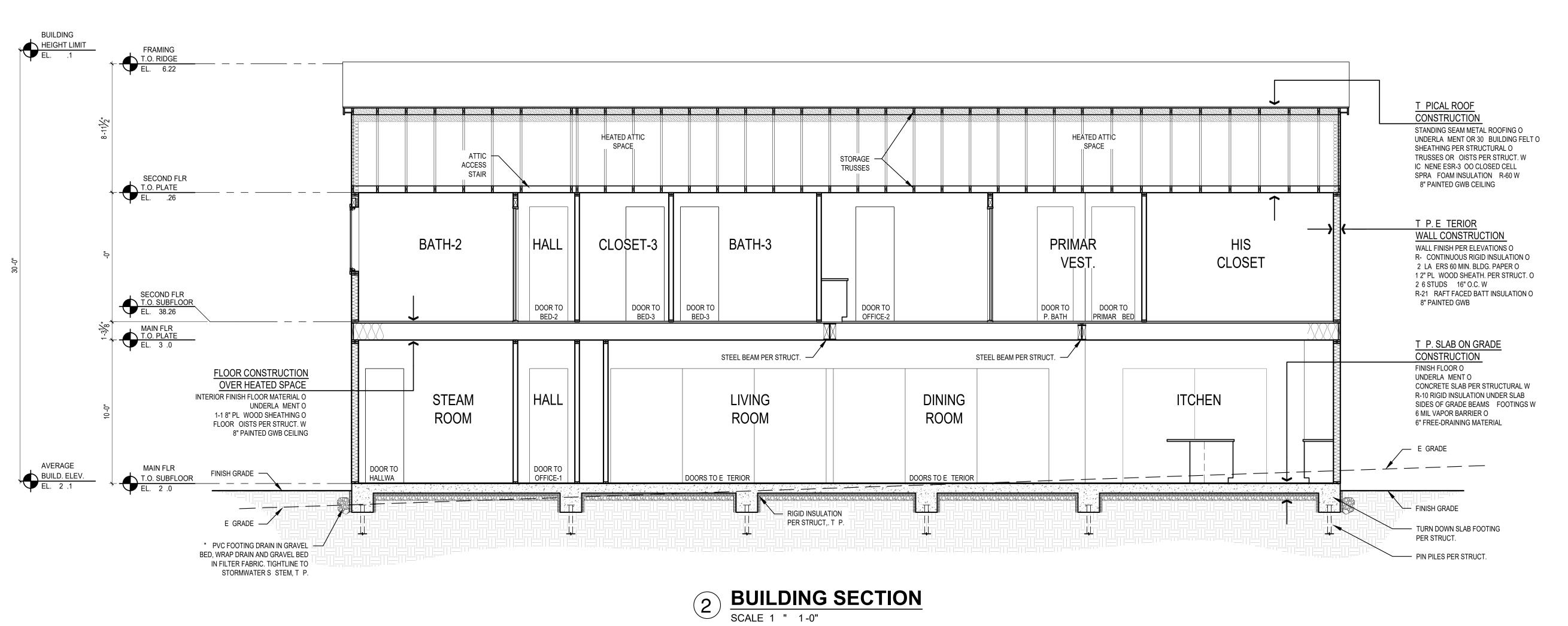










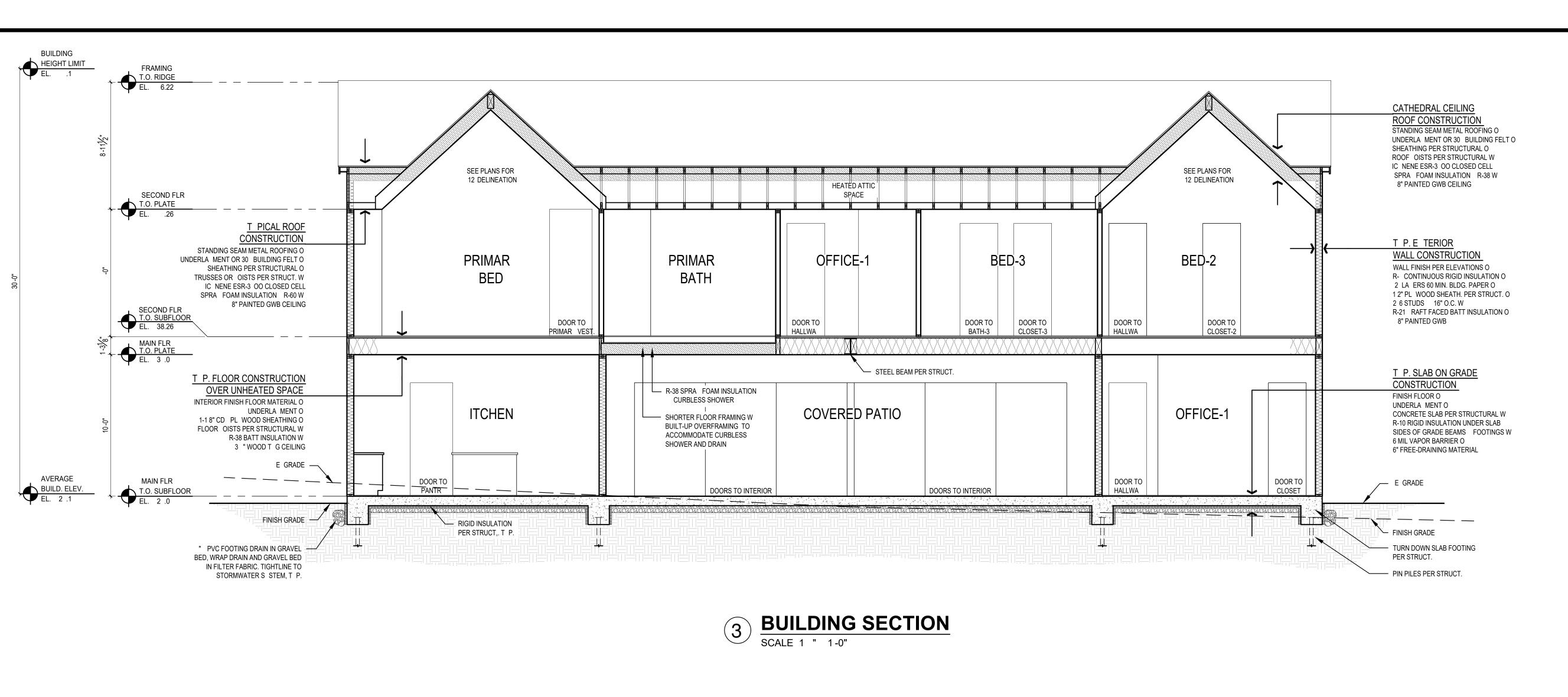


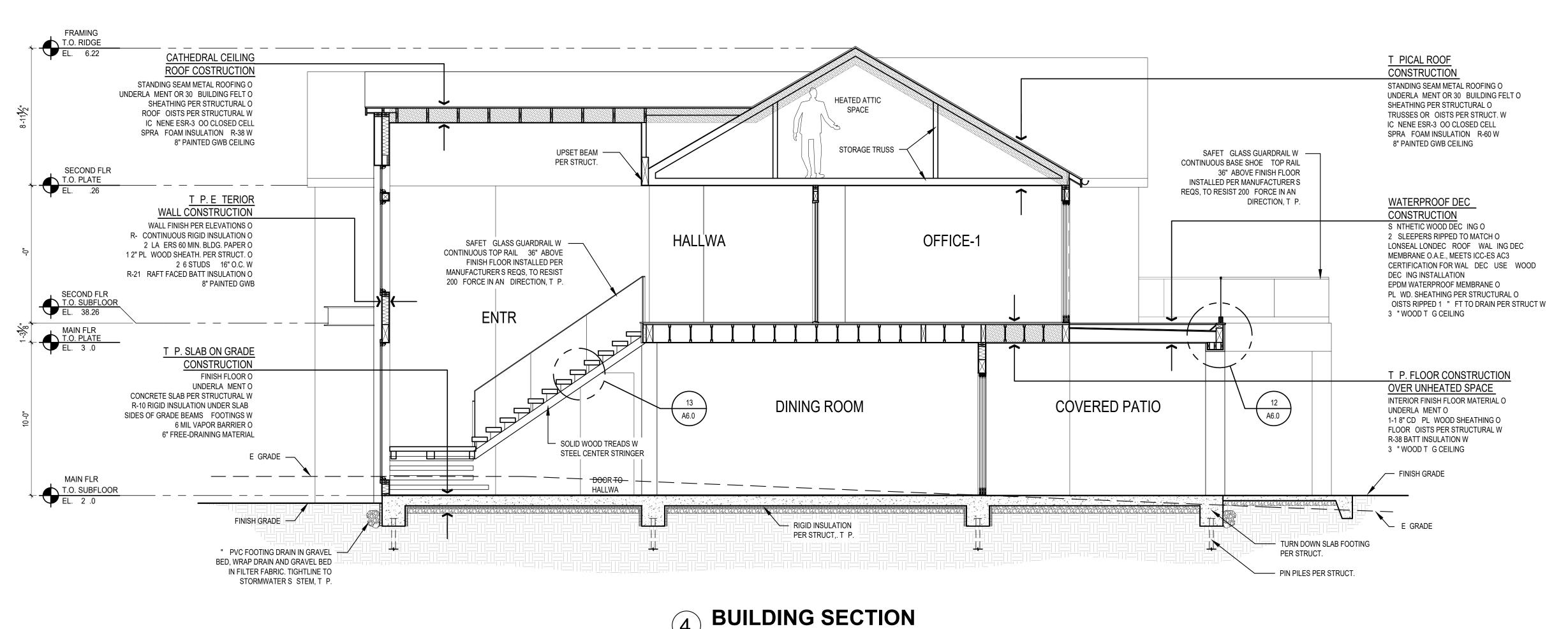
**⊘** < .tr nrcitect.co A Rig t Re er ed 2023 ASDOURIAN RESIDENCE
PERMIT SET
5300 BUTTERWORTH RD
MERCER ISLAND, WA 920.10 TIONS SEC DING.  $\mathbf{m}$ CHEC ED B

PLOT DATE 11 30 202

SCALE IF SHEET IS LESS THAN 2 " 36", IT IS A REDUCED PRINT REDUCE SCALE ACCORDINGL

PERMIT SET





 $\simeq$ **⊘** < .tr nrcitect.co A Rig t Re er ed 2023 DOURIAN RESIDENCE RD 98040 ITERWORTH I BUT ASI PERI 5300 MER(

DING SECTIONS

SNOISIONS

DRAWN B

E

CHEC ED B

B S

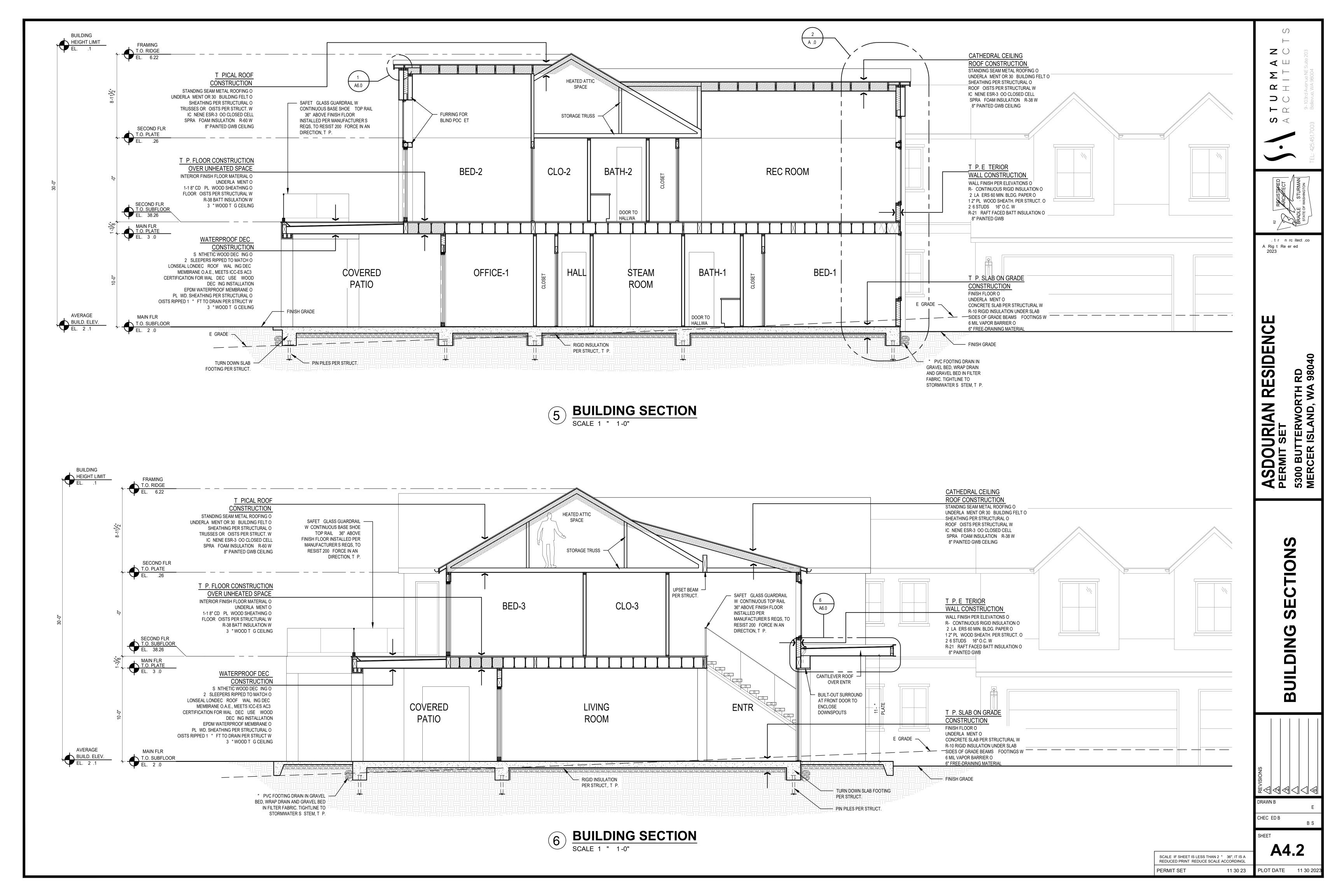
SCALE IF SHEET IS LESS THAN 2 " 36", IT IS A REDUCED PRINT REDUCE SCALE ACCORDINGL

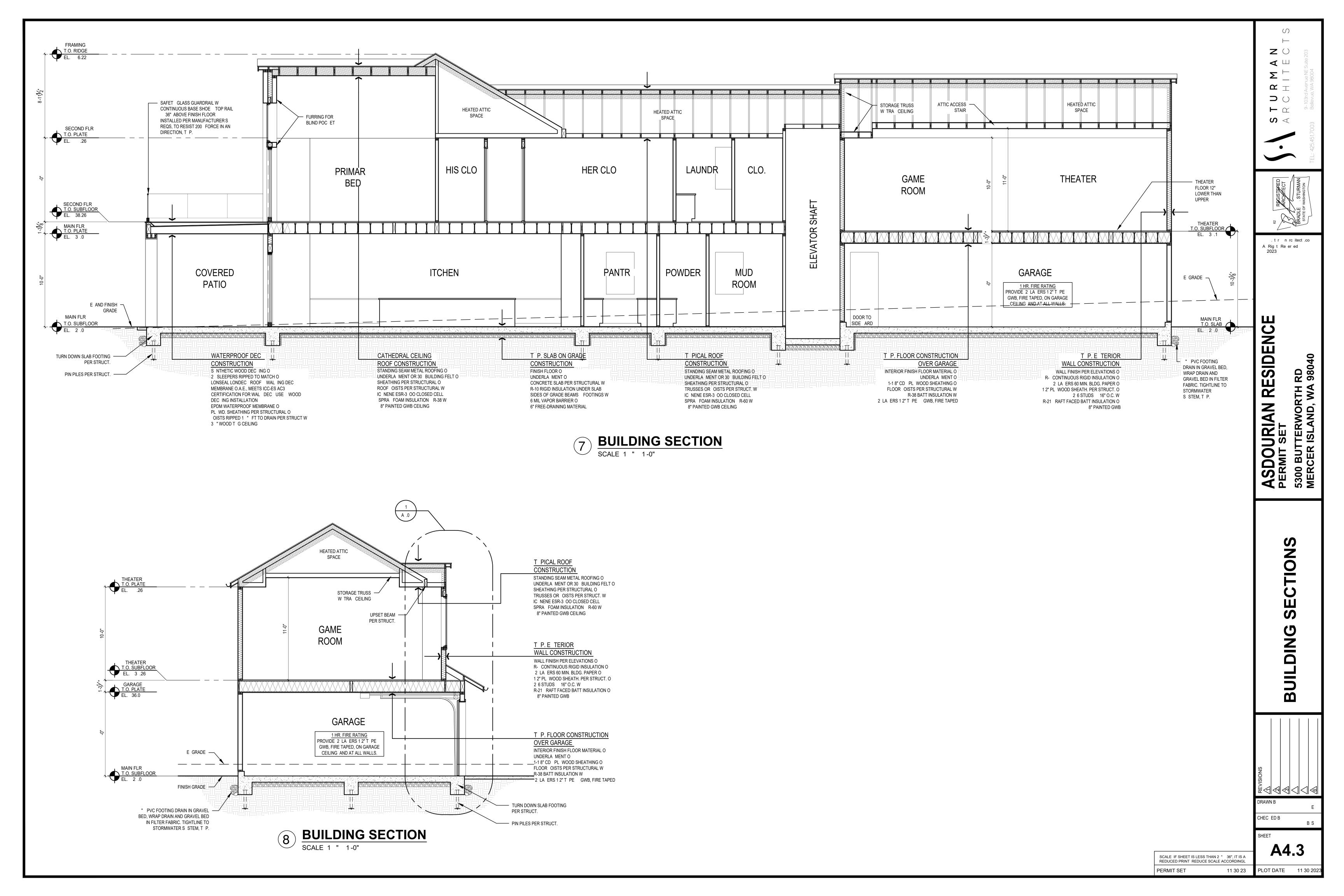
PERMIT SET

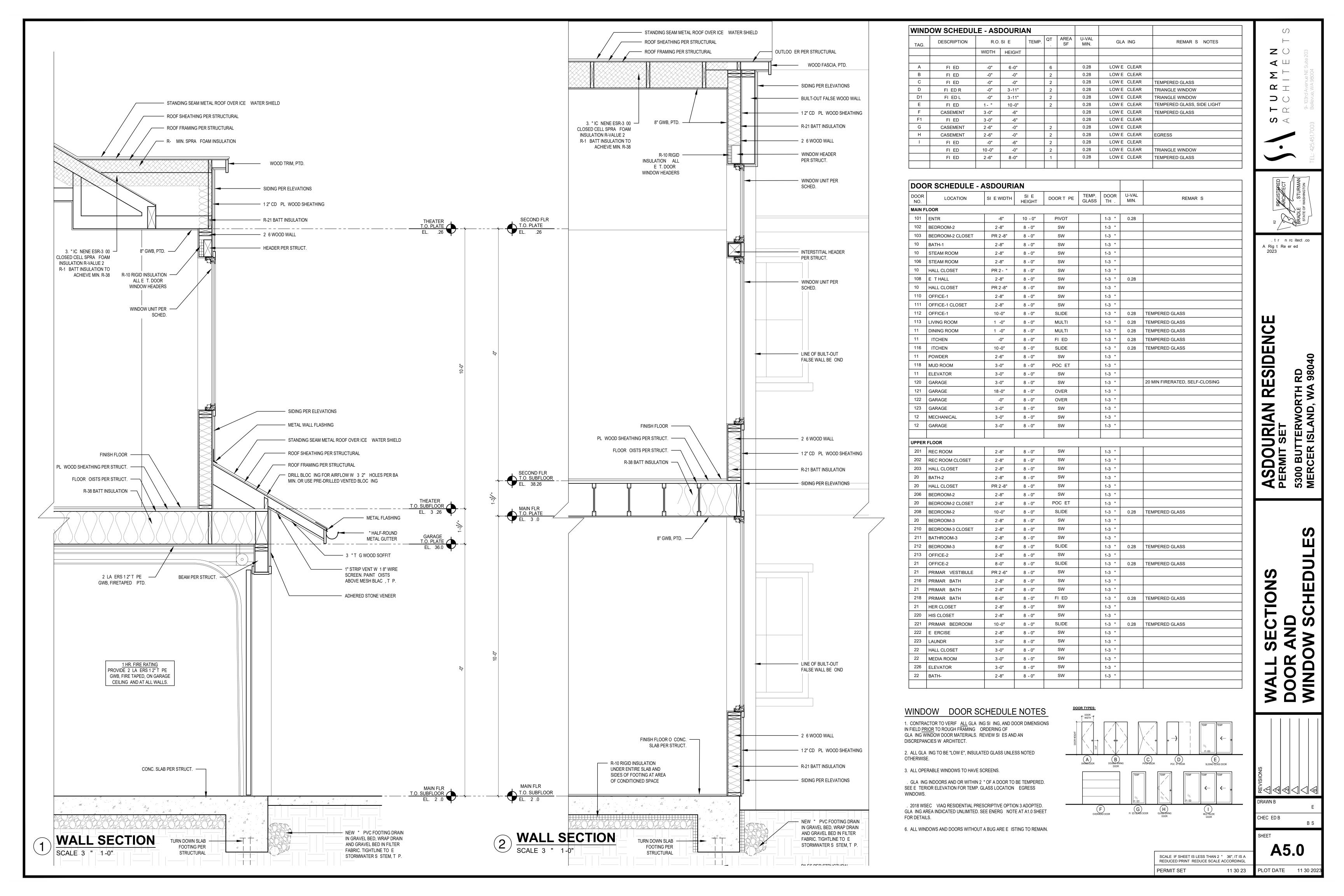
11 30 23

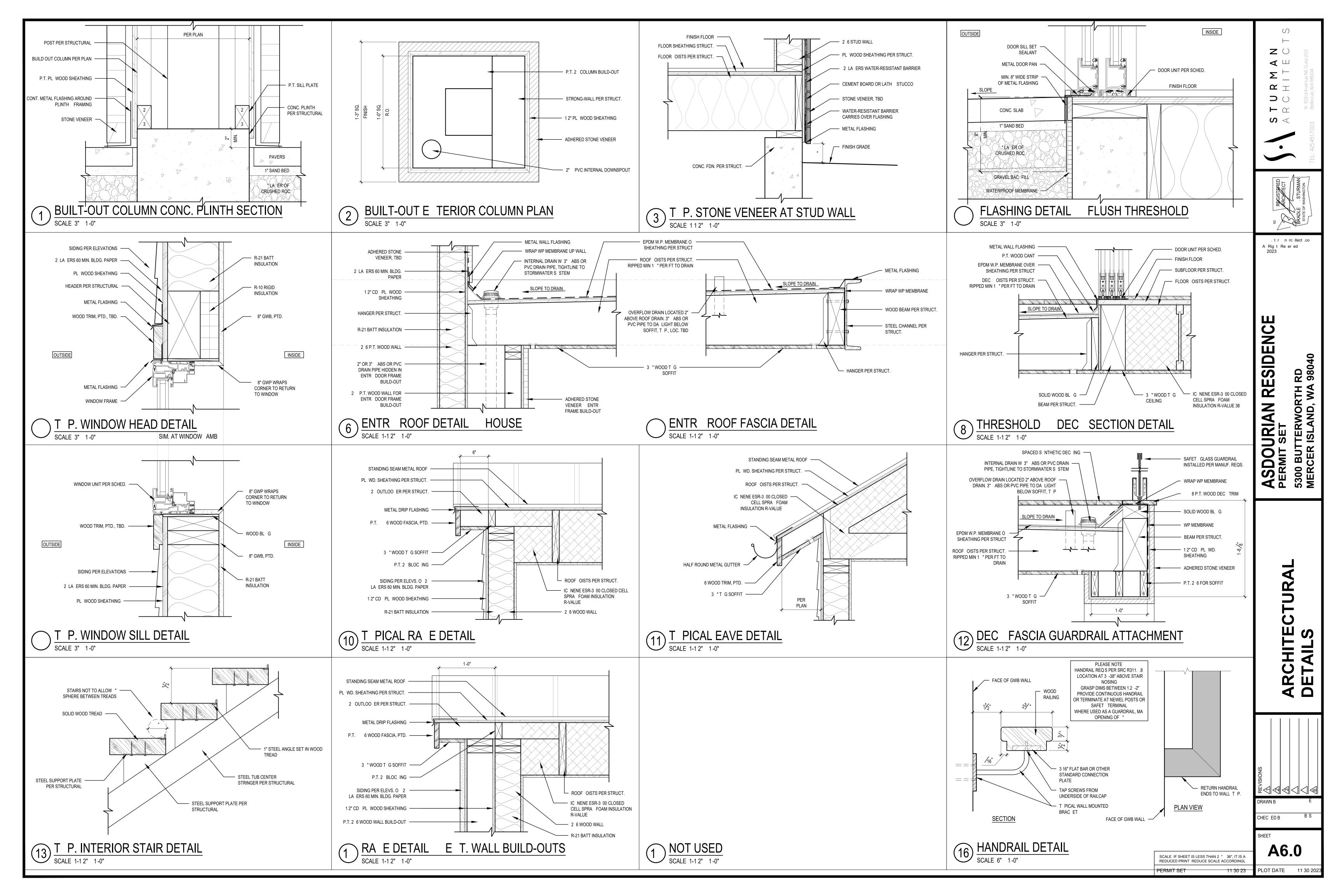
PLOT DATE

11 30 202









#### **GENERAL NOTES**

#### 1.0 GENERAL

- 1.1 Construction shall conform to the 2018 INTERNATIONAL RESIDENTIAL CODE and all other requirements of authorities having jurisdiction.
- 1.2 These drawings are the property of O.G. Engineering, PLLC ("Engineer"). These drawings and the information contained herein shall not be used for completion of or revisions to this project by others, extensions of this project or any other project without Engineer's express written permission.
- 1.3 Refer to Architectural Plans for all dimensions and elevations not shown. Do not scale drawings. The contractor shall verify all pertinent dimensions and existing conditions prior to beginning construction. Conflicts, differences in information, and omissions in drawings shall be brought to the attention of the Engineer for resolution prior to construction. Changes from the drawings shall be made only with the prior approval of the Engineer. All work is subject to review and approval by the local building department. All work shall conform to all permit and building department requirements. All details shall be considered typical at similar conditions. Details shall be used where applicable, unless otherwise noted. Details intend to show concepts that may not exactly match specific site conditions. All work shown on these drawings is new unless noted as existing.
- 1.4 The contractor shall be solely responsible for jobsite and construction safety and compliance with all current safety regulations. Jobsite visits performed by the Engineer do not include a review of the adequacy of the contractor's safety measures. The Engineer has no authority to exercise any control over any construction contractor or their employees in connection with their work or any health or safety precautions. Only the final, permanent structure is shown on these drawings. The contractor shall be solely responsible for the means and methods of construction, including but not limited to construction sequencing and providing all necessary shoring, bracing and other temporary supports during construction. The contractor shall be solely responsible for obtaining all necessary independent engineering reviews of all temporary conditions and support systems during construction.
- 1.5 Utility information is not shown on these drawings. The contractor shall be solely responsible for locating and protecting utilities prior to and during construction. The contractor shall be solely responsible for all damage to utilities resulting from their work, and all damage to utilities shall be repaired solely at the contractor's expense.
- 1.6 All waterproofing and drainage information shown on these drawings is for illustrative purposes only. Waterproofing and drainage are the design responsibility of others.

#### 2.0 DESIGN BASIS - BUILDING STRUCTURES

2.1	Vertical Loads (psf, U.O.N.) Truss Roof Stick—Framed Roof Roof Deck Upper Floor Main Floor	Dead 18 <sup>1</sup> 13 18 14 110 <sup>3</sup>	Live 20 <sup>2</sup> 60 40 40	Snow 25 25
	Patio	110 <del>3</del>	60	
	Garage	$110^{3}$	3000 lbs (	point load)

<sup>1</sup>Includes 4psf for solar-ready zones. <sup>2</sup>At attic spaces where occurs. <sup>3</sup>Includes weight of concrete slab.

2.2 Seismic Design Data (per the 2018 IBC)

Risk Category: II

Importance Factor: le=1.0

Site Coordinates: 47.5559°N, 122.2098°W Mapped Spectral Response Acceleration: Ss=1.44, S1=0.50

Site Class: E (used Fa = 1.2 for Site Class C per ASCE 7-16Section 11.4.8 exception 1)

Spectral Response Coefficients: Sds=1.15 Seismic Design Category: D

Main Seismic Force—Resisting System: Wood Structural Panel Shear Walls

Response Modification Factor: R=6.5 Seismic Response Coefficient: Cs=0.18

Redundancy Factor:  $\rho=1.0$ 

Over-strength Factor:  $\Omega$ =2.5 Analysis Procedure Used: Equivalent Lateral Force Procedure

2.3 Wind Design Data (per the 2018 IBC)

Risk Category: II Basic Wind Speed: 98 mph

Exposure Category: C Topographic Factor: 1.00 (Per Mercer Island Wind Load Map)

#### 3.0 INSPECTIONS

The construction work shall be inspected as required by the IRC Section R106. The contractor is solely responsible for understanding the requirements of and coordinating all inspections, observations and testing and ensuring that all work is performed to the satisfaction of the inspector.

#### 4.0 FOUNDATIONS

- 4.1 New foundations have been designed in accordance with recommendations in the Geotechnical Report. The design basis is as follows:
- \* Allowable Vertical Pin Pile Capacities: 4"Pile
- \* Sliding Resistance: 250 pcf Passive Pressure

foundation installation phases of the project.

4.2 All site preparation, grading, earthwork and site drainage, including but not limited to sub-grade preparation, pile installation and testing, foundation and retaining wall excavations, structural fill specifications, compaction requirements, and site drainage installation, shall be performed in accordance with the Geotechnical Report prepared by the Geotechnical Engineer, Geotech Consultants, Inc., dated March 7th, 2023. The Geotechnical Report is part of the construction documents and a copy may be obtained from the Geotechnical Engineer's office. The contractor shall notify Geotech Consultants, Inc. (425-747-5618) in advance of any earthwork operations and Geotech Consultants, Inc. should be present to observe and test, as necessary, the earthwork and

#### 5.0 MATERIALS

5.1 Wood:

5.1.1 All 2x & 3x sawn lumber shall be Hem Fir arade number 2. except sill plates which shall be Doug Fir grade number 2 or better, and all 4x and larger lumber shall be Doug Fir grade number 1, U.O.N. Mudsills and all sawn lumber in contact with concrete, masonry, ground, exposed to weather or moisture. shall be P.T. Preservative retention levels in P.T. wood shall meet the requirements of the applicable use category in accordance with AWPA U1-16, and shall not exceed those required to comply with AWPA Use Category UC4A. Do not use wood treated with ACZA. Field—cut ends, notches and drilled holes of P.T. wood shall be treated in the field in accordance with AWPA M4. P.T. is not required at naturally decay—resistant (i.e. redwood, cedar etc.)

5.1.2 Engineered Wood Framing Members and I—Joists shall be TrusJoist® or approved equal. 'PSL' denotes Parallam 2.2E for beams and 1.8E for posts. 'LSL' denotes Timberstrand 1.55E for members with depth equal to or greater than  $9\frac{1}{2}$ , and 1.3E for members with depth less than  $9\frac{1}{2}$ ". 'LVL' denotes Microllam 2.0E. 'TJI' denotes TJI I-joists.

5.1.3 Glulam framing members shall be DF/DF, stress class 24F-1.8E, combination symbol 24F-V8, U.O.N.

5.1.4 All wood framing members shall have 19% maximum moisture content at time of installation.

#### 5.2 Concrete:

Hardrock, normal-weight concrete with a minimum 28-day compressive strength of 3,000 psi. Slump range shall be 3-5 inches. Maximum aggregate size shall be 1". Maximum water/cement ratio shall be 0.5. Concrete exposed to weather shall be air-entrained with total air content between 5%-7% of total concrete volume.

5.3 Reinforcing Steel Bars:

ASTM A615, Grade 60

sawn lumber members.

5.4 Post-Installed Dowels & Anchors into Existing Concrete & CMU

Simpson SET-3G (Installed & inspected per ICC No. ESR-4057)

5.5 Bolts and Threaded Rods:

5.5.1 Threaded Rod: ASTM F1554 Grade 36

5.5.2 Sill Anchor Bolts: ASTM A307

Bent bar "J" anchor bolts shall have a hook with a 90-degree bend with an inside diameter of three bolt diameters, plus an extension of one and one half bolt diameters at the free end.

5.5.3 Bolts in Timber Connections: ASTM A307

5.5.4 Bolts in Steel Connections: ASTM A325-N (High-Strength)

5.6 Structural Steel:

Wide Flange (W): A992 (Fy = 50 ksi) Rectangular Tube (HSS): A500 Gr. B (Fy = 46 ksi) Plate and Bar: A36 (Fy = 36 ksi)

#### 6.0 CONCRETE CONSTRUCTION

- 6.1 Concrete elements shall be constructed in single continuous pours, without construction joints, unless otherwise approved by the Engineer, Reinforcement shall be the longest lengths practical Splices in rebar are not allowed in footings or walls less than 20 feet long. Lap splices shall be staggered at least 2 ft. in adjacent bars. Where reinforcement or anchor edge distances are noted on the drawings as "clear", the distance shall be taken from the face of reinforcement or anchor to edge of concrete. Cast—in—place reinforcement and anchor bolts shall be installed prior to concrete placement and shall not be "wet-set" into freshly poured concrete.
- 6.2 Reinforcement installation details, including rebar bends, hooks, splices and development lengths shall be in accordance with the requirements of IRC Section R608.5.4, U.O.N. Concrete materials, forms, mixing and delivery shall be in accordance with the requirements of the IRC Section R404.1.3.3.
- 6.3 Concrete Coverage over Reinforcing Steel

Unless otherwise noted, maintain the minimum concrete cover to face of reinforcement or anchors as follows:

- 1) 3" Where concrete is cast against and permanently exposed to earth except slab on arade.
- 2) 2" Where concrete is exposed to earth but formed, or exposed
- 3)  $1\frac{1}{2}$  Where concrete is not exposed to earth or weather.
- 7.0 WOOD CONSTRUCTION

#### 7.1 General Framing

Connections not specified on these drawings shall conform to the IRC fastening schedule, refer to Table R602.3(1). Depth of all posts in walls shall match stud depth, U.O.N. Block floor joist space solid under posts and cripple studs supporting headers and continue support to foundation. Face nail all plies of multi-ply studs with 10d@6"o.c. Obtain approval from engineer prior to ripping or creating notches or holes in framing members, U.O.N. Install double joists below all interior walls parallel to floor joists and solid blocking below all interior walls perpendicular to floor joists, U.O.N. All beams shall be continuous across supports unless explicitly shown as multiple pieces. Install full depth blocking between framing members over supports, unless otherwise noted. Intall 2x4 blkg btwn adjacent joists/rafters/ trusses @24"o.c. over interior partitions. All flush beams framing into walls shall continue to back edge of supporting dbl top plate; stop rim joist each side of beam where occurs.

#### 7.2 Engineered Wood Framing

See TrusJoist "Installation Guide for Floor and Roof Framing" (TJ-9001) for allowable holes in engineered wood beams. Grade stamp info <u>must be maintained</u> on ripped engineered wood members; refer to TrusJoist Technical Bulletin TB-305 for requirements pertaining to re-sawn engineered wood.

#### 7.3 Fasteners

Nails specified on these drawings are common nails, U.O.N. Fasteners in contact with P.T. wood, exposed to weather or in contact with ground shall be hot-dipped galvanized per IRC Section 317.3, or shall have equivalent corrosion resistance. Dissimilar metals & coatings shall not be in contact. Bolt holes shall be a minimum of  $\frac{1}{32}$ " to a maximum of  $\frac{1}{16}$ " larger than the bolt diameter. Bolts shall not be forcibly driven, and shall be tightened to the snug-tight condition. Install standard cut washers under all bolt heads and nuts bearing against wood.

#### 7.4 Connectors

Connectors specified on these drawings are manufactured by the SIMPSON STRONG—TIE® Company. Refer to latest catalog for information not specifically noted herein. Connectors in contact with P.T. wood, exposed to weather or in contact with ground shall be ZMAX or HDG galvanized. All connectors shall receive the maximum number of fasteners, U.O.N. Dissimilar metals & coatings shall not be in contact. Shim gaps in connectors for different framing sizes with plywood as required. Non-field-adjustable hangers specified as sloped or skewed shall be manufactured sloped or skewed.

#### 7.5 Wood Structural Panels

WSPs shall bear the APA trademark and shall meet the requirements of the latest edition of USDOC PS1 or PS2. Use 10d common wire nails to fasten panels with  $1\frac{1}{2}$  minimum penetration into framing at all panel edge and field nailing, U.O.N. Nails shall be located at least  $\frac{3}{8}$ " from panel ends and edges. Stagger nails at adjoining panel edges. Drive nail heads flush with panel surface. Maintain  $\frac{1}{8}$ " gap between all adjoining panel edges. Center interior panel joints on framing members or blocking. Provide  $\frac{1}{2}$ " space between untreated panel and concrete or masonry. Minimum panel dimension shall be 2'-0". Panel storage and handling during transport and construction shall be in accordance with APA recommendations and shall protect the panels from prolonged exposure to moisture from rain, snow, ground or other sources. WSPs permanently exposed to weather shall be exterior grade.

#### 7.6 Shear Walls and Exterior Wall Sheathina

7.6.1 Shear walls are noted on the plans. Shear walls shall be sheathed with  $\frac{1}{2}$ " APA RATED SHEATHING, EXPOSURE 1 WSPs with a span rating of  $\frac{32}{16}$ , U.O.N. Panels shall not be less than 4'-0" x8'-0", except at boundaries and changes in framing. Panels shall be laid with strength axis vertical. Install 2x blkg under all unsupported panel edges; all panel edges shall be supported by and fastened to min. 2x common study or blocking, U.O.N. on shear wall schedule. Edge nail panels to posts within shear walls. Install double stud or min. 4x post at the ends of all shear walls. Provide solid blocking under double studs & posts between floors and continue support to foundation. See shear wall schedule for more information.

7.6.2 WSP Wall Nailing, U.O.N.:

Panel Edge Nailing: 10d@6"o.c. maximum. Intermediate (Field) Nailing: 10d@12"o.c. maximum.

7.6.3 All new exterior walls not called out as shear walls shall be sheathed on their exterior face with  $\frac{1}{2}$  APA RATED SHEATHING. EXPOSURE 1 WSPs with a span rating of  $\frac{32}{16}$  and nailing per note 7.6.2., U.O.N. All other fasteners & requirements shall conform to the shear wall schedule for wall type (1).

#### 7.7 Holdowns and Tiedown Straps

Holdowns and tiedown straps shall be attached to double studs or min. 4x posts, U.O.N. See latest Simpson Catalog for additional requirements not noted herein. See holdown schedule for anchor bolt sizes and additional specifications. Refer to note 7.1 for nailing and framing requirements at holdown/tiedown posts. Install solid post at shear wall corners or intersections where holdowns/tiedowns occur. All holdowns/tiedowns shall have the maximum number of fasteners.

#### 7.8 Sill Anchor Bolts

There shall be a minimum of two sill anchor bolts per piece with one bolt located not more than 12" or less than  $4\frac{1}{2}$ " from each end of each piece. Holes in sills for bolts shall not be oversized. Sill anchor bolts shall be  $\frac{5}{8}$ " with 7" min. embed. into concrete. Sill anchor bolts into existing concrete shall be all—thread rod, drill and epoxy. See shear wall schedule for spacing of sill anchor bolts in shear walls. Maximum sill anchor bolt spacing at non-shear-walls shall be 6'-0"o.c. at interior walls and 4'-0"o.c. at exterior walls. All sill anchor bolts at shear walls and mudsills shall be installed with 0.229"x3"x3" steel plate washers. Edge of sill anchor bolt plate washers shall be located  $\frac{1}{2}$  max. from inside face of wall sheathing or rim joist where occurs.

#### 7.9 Floor and Roof Sheathing

7.9.1 Wood structural panel sheets at floors and roofs shall be laid with strength axis perpendicular to supports and continuous over two or more spans, unless otherwise noted on drawings. Stagger adjacent panels 4'-0"o.c. lengthwise.

7.9.2 Unless otherwise noted, typical roof sheathing shall be unblocked §" APA RATED SHEATHING, EXPOSURE 1 WSPs with a span rating of  $^{40}\!\!/_{20}$ . Panels shall be fastened to framing members with 10d nails @6"o.c. at all supported panel edges and 10d nails @12"o.c. intermediate (field) nailing. Install 'PSCL' sheathing clips (one mid-way between each support) at all unsupported panel

7.9.3 Unless otherwise noted, typical floor sheathing shall be unblocked 1½" APA RATED STURD-I-FLOOR EXPOSURE 1 WSPs with a span rating of  $^{60}$ /<sub>32</sub> and T&G edges. Panels shall be fastened to framing members with 10d nails @6"o.c. at all supported panel edges and 10d nails @12"o.c. field nailing. Glue sheathing to all supports (including blocking) with  $\frac{1}{4}$ " minimum beads of approved adhesive meeting APA specification AFG-01.

#### 7.10 Metal-Plate-Connected Wood Trusses

7.10.1 The design, manufacture and installation of trusses shall be in accordance with the requirements of ANSI/TPI 1 and the IRC Section R502.11.

7.10.2 Trusses, structural fascia, their connections to other trusses/fascias, and truss eave blocking are the design responsibility of the supplier, and shall be designed by a civil or structural engineer licensed in the State of Washington ("Truss Designer"). Trusses shall be designed to support the following specific unfactored loads in addition to their self-weight, in addition to any loads specifically indicated on plan:

<u>Vertical Roof Loads — Top Chord</u>

\*Dead: 14 psf (Does not include truss self-weight) \*Snow: 25 psf

\*Wind: -25 psf (uplift)

<u>Vertical Ceiling Loads — Bottom Chord</u> 5 psf (Does not include truss self-weight)

\*Non-Attic Live: 10 psf (Non-concurrent with other live loads) \*Attic Live 20 psf (Concurrent with other live loads)

7.10.3 Drag trusses shall be designed for the following unfactored seismic drag loads:

1) Top Chord Uniform Drag Load: a uniform drag load acting longitudinally along the entire top chord length with a magnitude equal to the total drag load indicated on plan divided by the total top chord length.

2) Bottom Chord Uniform Drag Load: a uniform drag load acting horizontally along on the interface between the drag truss bottom chord and the shear wall below (where occurs on plan) with a magnitude equal to the total drag load indicated on plan divided by the length of that interface.

3) Bottom Chord Concentrated Drag Load: a horizontal concentrated load acting at the location at which the drag truss bottom chord is attached via a strap or other connector (where occurs on plan) to the adjacent collector element, with a magnitude equal to the total drag load indicated on plan.

7.10.4 Trusses shall not rely on interior walls for support, U.O.N.; trusses shall be designed to span between exterior bearing walls.

7.10.5 Trusses shall be braced to provide lateral stability and prevent rotation in accordance with the SBCA BCSI "Guide to Good Practice for Handling, Installing and Bracing of Metal-Plate-Connected Wood Trusses". Bracing shall be designed and specified by the truss designer.

7.10.6 Trusses and their connections shall not be notched, cut, spliced or otherwise altered or damaged in any way without the prior written consent of both the E.O.R. and truss designer.

7.10.7 Truss design drawings and calculations, prepared by a civil or structural engineer licensed in the State of Washington in accordance with the IRC Section R502.11.4, shall be submitted to the contractor, architect, engineer and local building official for review and acceptance prior to fabrication, and shall be provided with the shipment of trusses to the job site.

7.10.8 Attach top plates of interior, non-bearing partition walls to truss bottom chords with 'STC' clips, leaving a  $\frac{1}{4}$ " to  $\frac{1}{2}$ " vertical gap between bottom of truss and top of plate. Attach adjacent gypsum board ceiling to top plate with 'DS' clips. Do not fasten gypsum board ceiling to truss bottom chord within 16" of top plate.

#### 8.0 STRUCTURAL STEEL

Steel fabrication and erection shall be in accordance with "Specification for Structural Steel Buildings" (AISC 360-10). Welding shall be in accordance with "Structural Welding Code — Steel" (AWS D1.1) Specifications. Minimum tensile strength of weld metal shall be 70 ksi, U.O.N. Welding electrodes shall be as recommended by their manufacturer for the position and other conditions of actual use. All welding shall be performed by AWS Certified Welders. Bolt holes shall be drilled or punched. Bolt holes shall be standard, and hole size shall be  $\frac{1}{16}$ " larger diameter than the nominal size of bolt used, U.O.N. Bolts shall be installed snug-tight, U.O.N. All steel framing and fasteners exposed to weather or in contact with ground shall be hot—dipped galvanized after fabrication to meet the requirements of ASTM 153. Upon completion of erection; touch—up, de—slag, clean and apply zinc-rich primer to exposed welds or other unprotected markings incurred during the transportation, handling or erection process. Dissimilar metals & coatings shall not be in contact. All steel surfaces that are not galvanized shall be painted with manufacturer's standard rust-prohibitive primer and paint. No penetrations shall be made through steel framing except as specifically indicated on these structural drawings or with the prior written permission of the engineer.

### **ABBREVIATIONS**

ADJACENT ALTERNATE ALT. ARCHITECT ARCH. A.T.R. ALL-THREAD ROD

B.F. BALLOON-FRAMED BLKG BLOCKING

BLW. BELOW ВМ BEAM BOTT. воттом

C.I.P. CAST-IN-PLACE C.J. CONSTRUCTION JOINT

CL CENTERLINE CLR. CLEAR

CONT. CONTINUOUS CSK. COUNTERSINK

DIAMETER

DBL. DOUBLE DF DOUGLAS FIR

DIM DIMENSION

D.J. DOUBLE JOIST D.R. DOUBLE RAFTER

E.J. **EXPANSION JOINT** ELEV. ELEVATION EMBED. EMBEDMENT

ENGR. ENGINEER E.N. EDGE NAILING

E.O.R. ENGINEER OF RECORD EQ. EQUAL

E/W EACH WAY (E) **EXISTING** F.J. FLOOR JOIST

FIELD NAILING F.N. FTG FOOTING

G.L. GRID LINE GLB GLULAM BEAM

HEADER

HOT-DIPPED GALVANIZED

G.C.

HDR

HEM FIR

GENERAL CONTRACTOR

2018 INTERNATIONAL BUILDING CODE®

INVERTED 2018 INTERNATIONAL RESIDENTIAL CODE®

KILN-DRIED LUMBER

LOCN LOCATION

MAXIMUM MANUFACTURER

MACHINE BOLT

MIN. MINIMUM

NOT SHOWN FOR CLARITY

NOT TO SCALE OVER

ON CENTER o.c.

0/H OPPOSITE HAND OPENING

 $\mathsf{PL}$ PLATE

PSF POUNDS PER SQUARE FOOT РΤ PRESSURE-PRESERVATIVE-TREATED

QUAD. QUADRUPLE

R.R.

STD

REQUIRED RFT RETROFIT

ROOF RAFTER R.W. REDWOOD

SEE ARCHITECTURAL DRAWINGS

S.O.G. SLAB ON GRADE SIM. SIMILAR

SQ. SQUARE

STANDARD SHEAR WALL SCHEDULE

TO BE DETERMINED T&B TOP & BOTTOM

T&G TONGUE & GROOVE TYP. **TYPICAL** 

TRPL. TRIPLE T.O.

TOP OF

UNLESS OTHERWISE NOTED

U/S UNDERSIDE UNDER

V.I.F. VERIFY IN FIELD

WESTERN RED CEDAR W.P. WATERPROOFING

WOOD STRUCTURAL PANEL

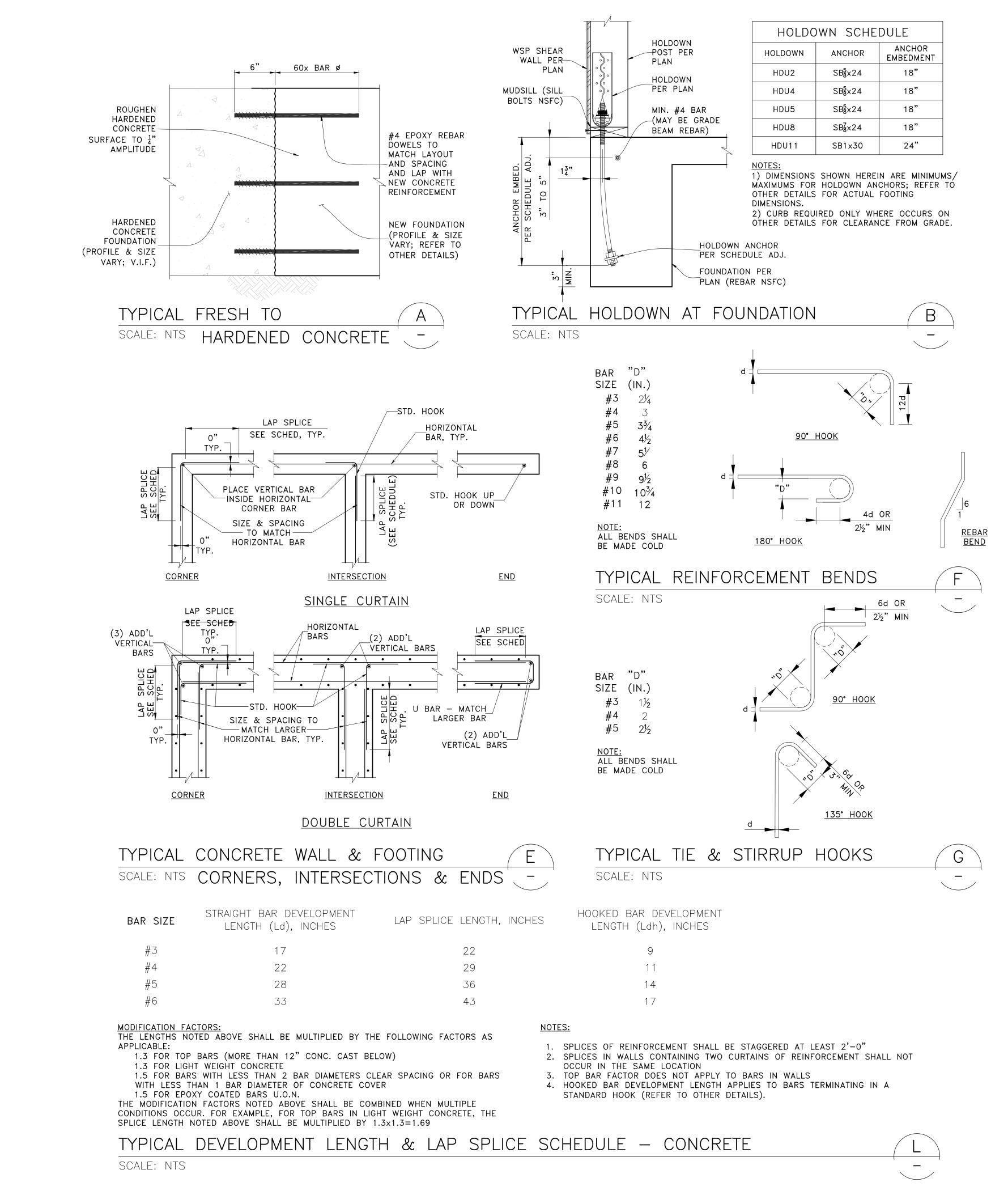
PERMIT SET

ENGINEER OF RECORD

SINGLE—FAMII 3300 Butterwo ercer Island, an & Ashley 3300 Butterwo ercer Island,

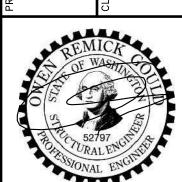
**Ryan &** 5300 E

GENERAL



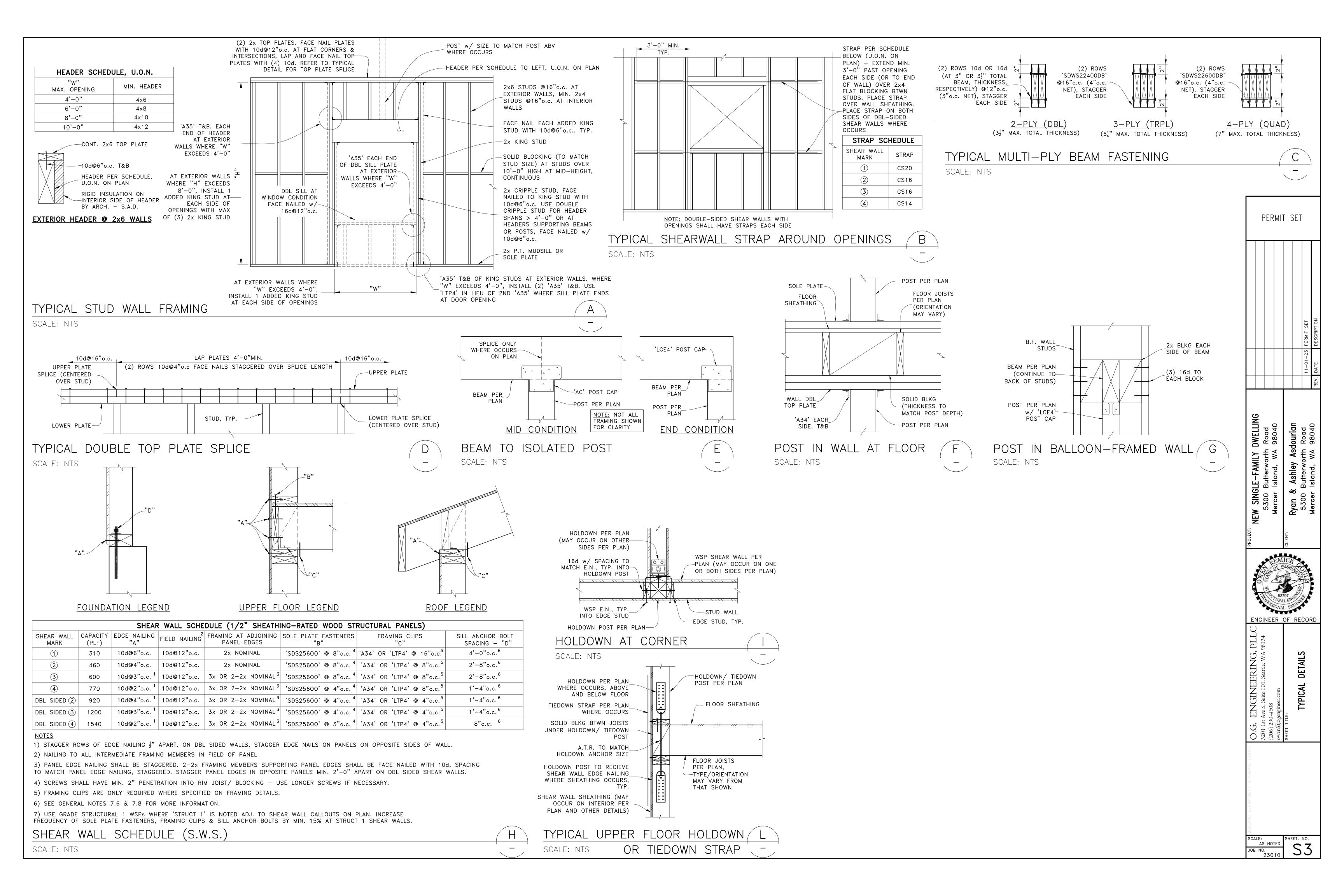
PERMIT SET

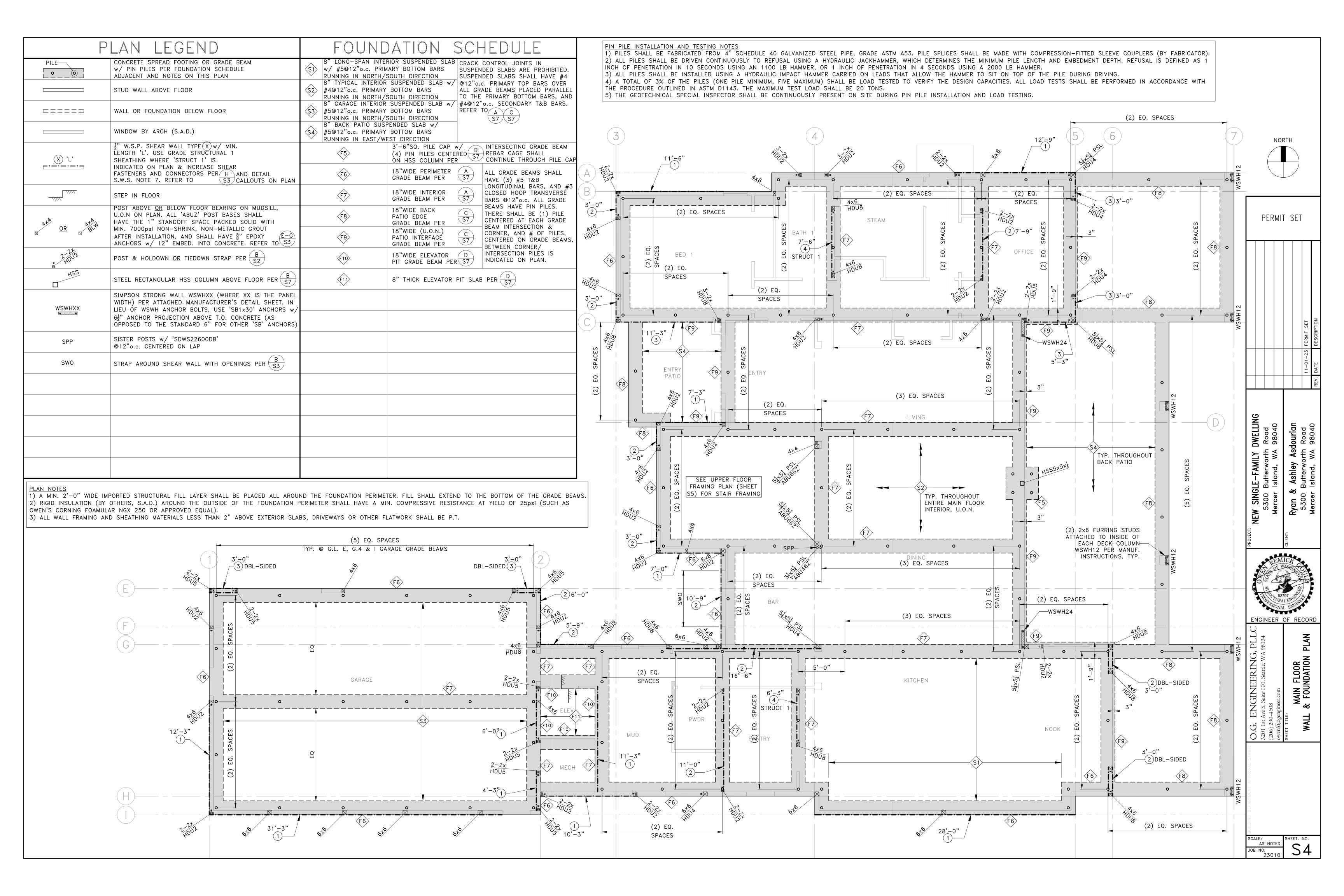
Ryan & Ashley 5300 Butterwood Mercer Island, V

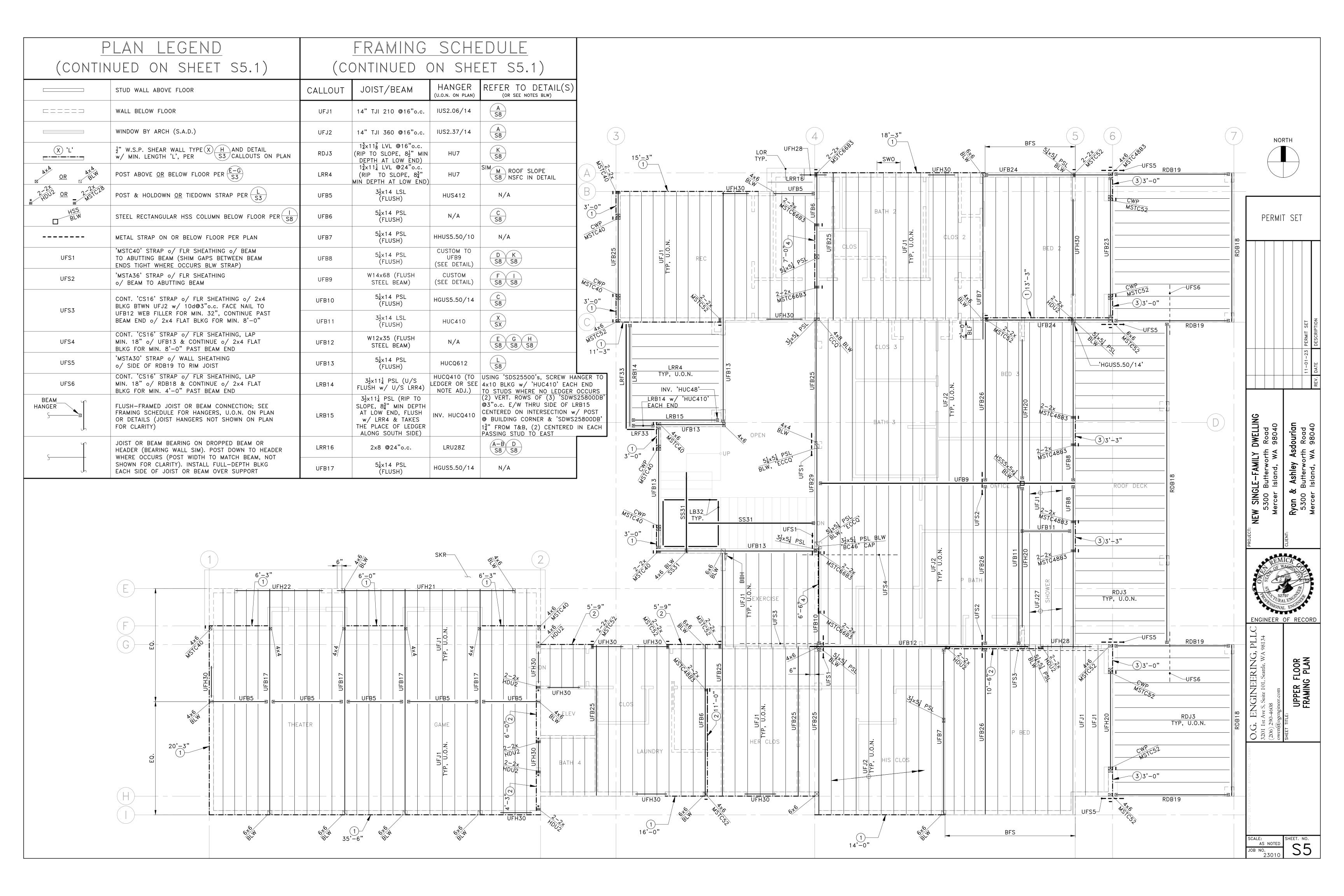


ENGINEER OF RECORD

AS NOTED







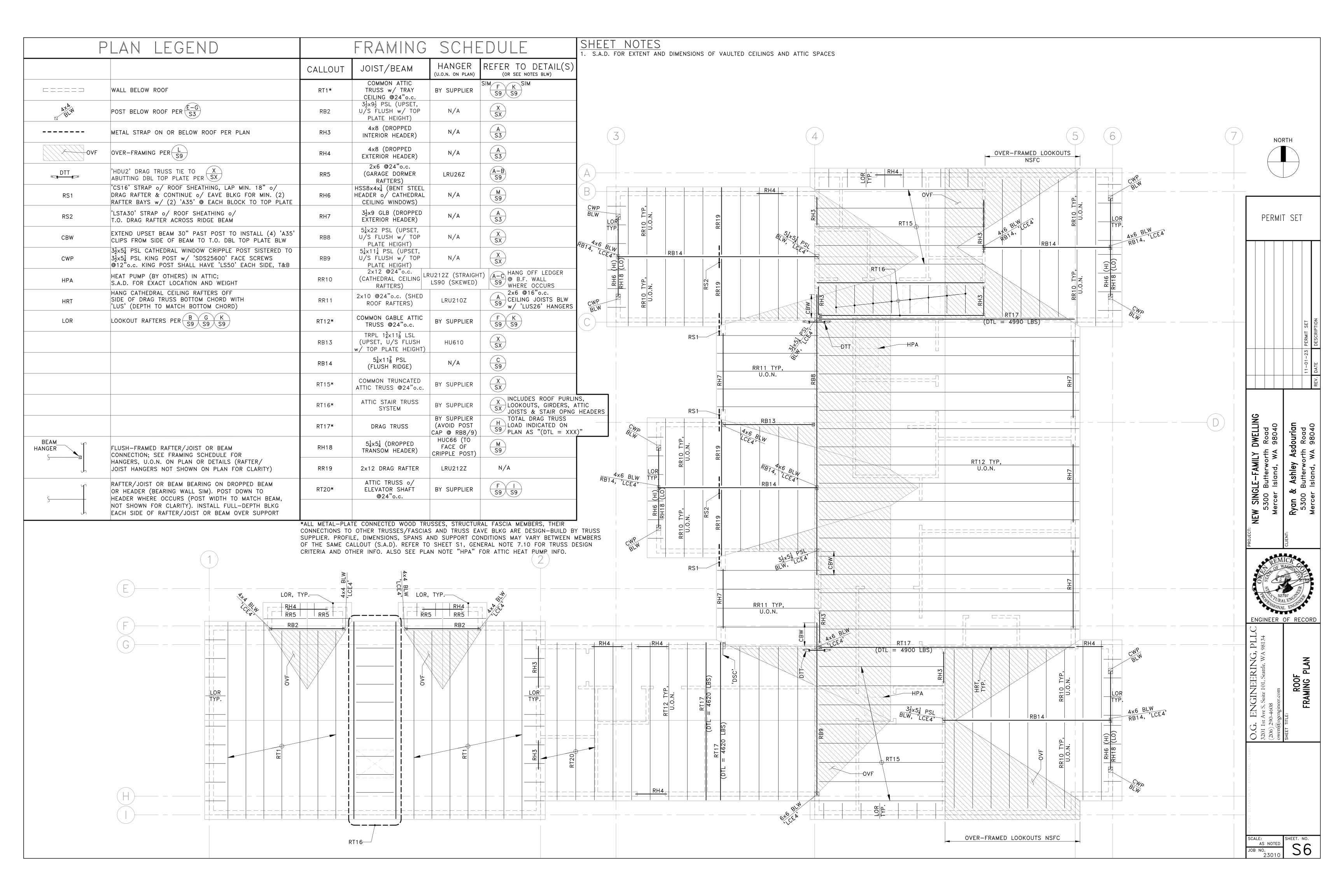
BBH	'HDU2' HORIZ. HOLDOWN @ INSIDE OF UFB25 (USE 'SDS25112' SCREWS) w/ 8"øx4" FULL-THREAD LAG SCREW TO UFB13  B.F. EXTERIOR WALL STUDS FROM UPPER FLR PAST	(C(	JOIST/BEAM	1	REFER TO DETAIL(S) (OR SEE NOTES BLW)					
BFS	B.F. EXTERIOR WALL STUDS FROM UPPER FLR PAST PRIMARY ROOF TO OVER-FRAMED ROOF. STUDS > $9'-0"$ TALL SHALL BE $1\frac{3}{4}\times5\frac{1}{2}$ LVL w/ 'A35' T&B	RDB18	$5\frac{1}{4} \times 11\frac{1}{4}$ PSL (UPSET, U/S FLUSH w/ U/S RDJ3) (2) $1\frac{3}{4}$ LVL (RIP $11\frac{7}{8}$ "	HUC610	OUTSIDE FACE OF RDB18 FLUS FACE OF WSWH BLW. RDJ3 HA LVL LEDGER SCREWED TO RDB1	H WIT NG OF 18 PEF	H OUTS FF 1¾x8 R	$\begin{array}{c} \text{SIDE} \\ \text{S}_{2}^{1} & \text{K} \\ \text{S}_{3}^{2} & \text{S}_{4}^{2} \end{array}$	SIM 3	
BLF	(4) ROWS OF (4) 16d FACE NAILS @3"o.c E/W THRU SIDE OF UFB26 TO UFB7	RDB19	DEEP JOISTS TO SLOPE, $8_2^{1}$ " MIN DEPTH, FLUSH)	HUC48	K S8					
		UFH20	5½×10½ GLB (DROPPED SLIDING DOOR HEADER)	HUC610 (SIX $\frac{1}{8}$ "x FILLET WELDS TO STEEL POST)	1 A S3					
CWP	$3\frac{1}{2} \times 5\frac{1}{4}$ PSL CATHEDRAL WINDOW CRIPPLE POST SISTERED TO $3\frac{1}{2} \times 5\frac{1}{4}$ PSL KING POST w/ 'SDS25600' FACE SCREWS @12"o.c. KING POST SHALL HAVE 'LS50' EACH SIDE, T&B	UFH21	5¼×14 PSL (FLUSH HEADER)	N/A	UFH22 OVER WALL OPNG BELOW NSFC ON PLAN					
SKR	GARAGE SKIRT ROOF PER (FRAMING NSFC ON PLAN) S8	UFH22	5½×9 GLB (DROPPED HEADER)	N/A	A S3					
SWO	STRAP AROUND SHEAR WALL WITH OPENINGS PER 83	UFB23	5¼×14 PSL (FLUSH)	MGU5.50/14 (ONE FLANGE CONCEALED)	D K S8 S8		PERMI	SET		
		UFB24	5¼×14 PSL (FLUSH)	INV. HUCQ612	D S8					
		UFB25	$1\frac{3}{4}\times14$ LSL (FLUSH)	HU11	B SHEATHING TO FULL-LENGTH OF BEAM					
		UFB26	$3\frac{1}{2}$ ×14 LSL (FLUSH)	N/A	B SHEAR WALL, 6"o.c. ELSEWHERE					
		UFJ27	9½" TJI 210 @16"o.c.	IUS2.06/9.5	X SX					
		UFH28	3½×9 GLB (DROPPED HEADER)	N/A	A A WHERE OCCURS				SET	Pilon
		UFB29	5½×14 PSL (FLUSH)	N/A	X SX				3 PERMIT SET	DESCR
		UFH30	4×10 (DROPPED HEADER)	N/A	A S3				11-01-23	DAIL
		SS31	HSS6×6×8 STAIR STRINGER	SEE FILLET DETAILS INTER (TBD) PLATE UFB29	WELD ALL AROUND AT BENDS.  F WELD ALL AROUND TO SECTING SS31. WELDED END F SCREWED TO SIDE OF  BOUTH BOLTED BASE PLATE  F BOLTED TO SLAB © BASE					RE V.
		LB32	L6×4×15 STAIR LANDING EDGE BEAM	SEE DETAILS AROU 'SDWS SPACI	F WELD ALL AROUND TO SECTING SS31, BUTT WELD ALL ND AT MITERED CORNERS. (2) S22500DB' @3"o.c. VERT. ING TO EACH PASSING STUD OR IN ADJ. WALL WHERE OCCURS		rth Road WA 98040		orth Road WA 98040	
		LRF33	C15x33.9 STEEL FASCIA	N/A INSTA WELD THRU:	ACK SIDE OF FASCIA FLANGE, LL (2) STAGGERED ROWS ½"Ø ED, THRD STUDS —BOLTED TO LRB14 @12"o.c (PLACE BTWN RAFTERS), ROWS TED 3" FROM T&B OF LRB14	l ਨ	5300 Butterworth ercer Island, WA	& Ashley	Butterw Island,	
						NEW S	5300 Mercer	Ryan F. C.	5300 Mercer	
						ENG	REM OF V OR STONA INEER	OF RE	CORI	D
						NEERING, PLLC	, Seattle, W.A. 901.34	9 Z	D & SCHEDULE	

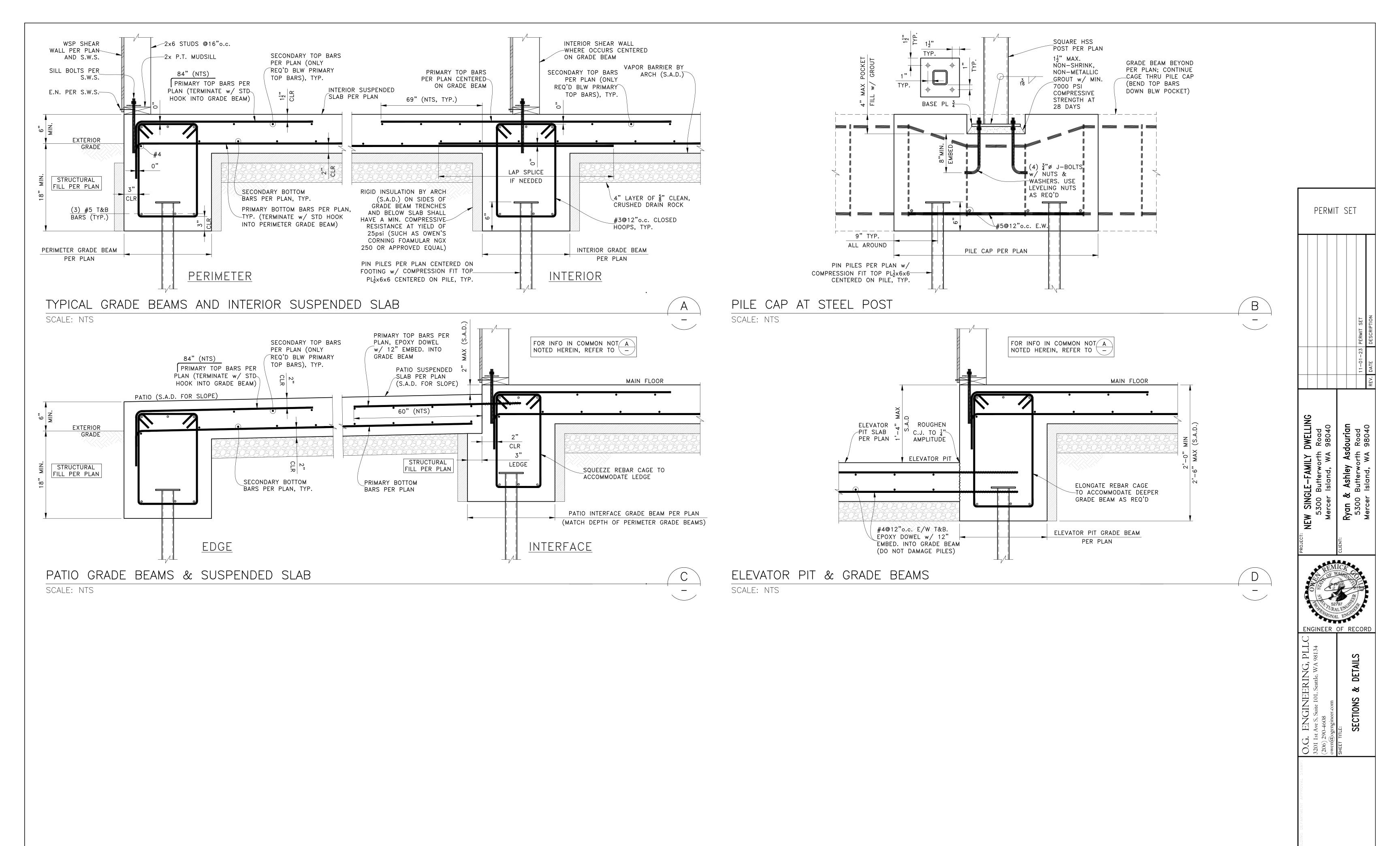
SCALE:
AS NOTED

JOB NO.
23010

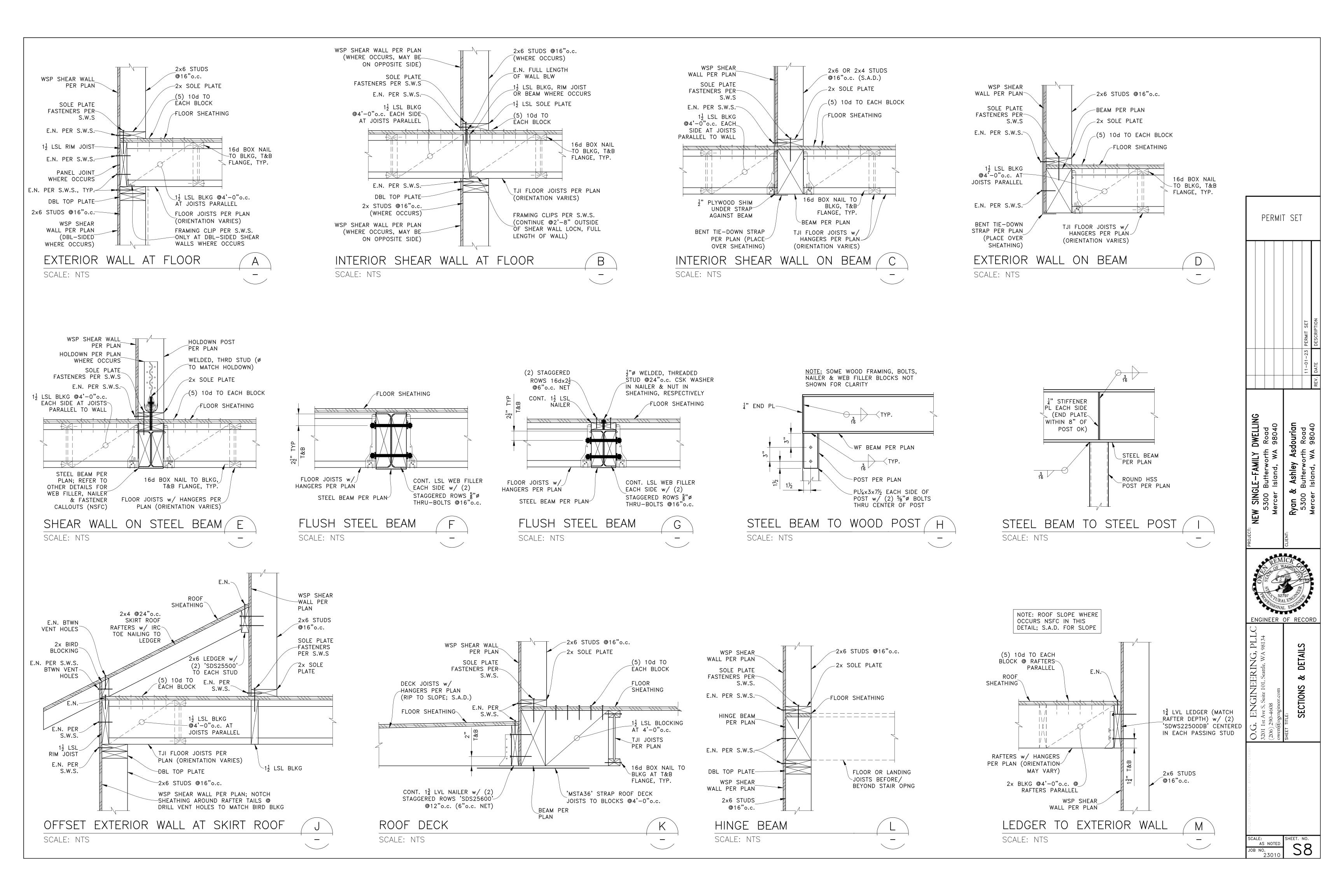
SHEET. NO.

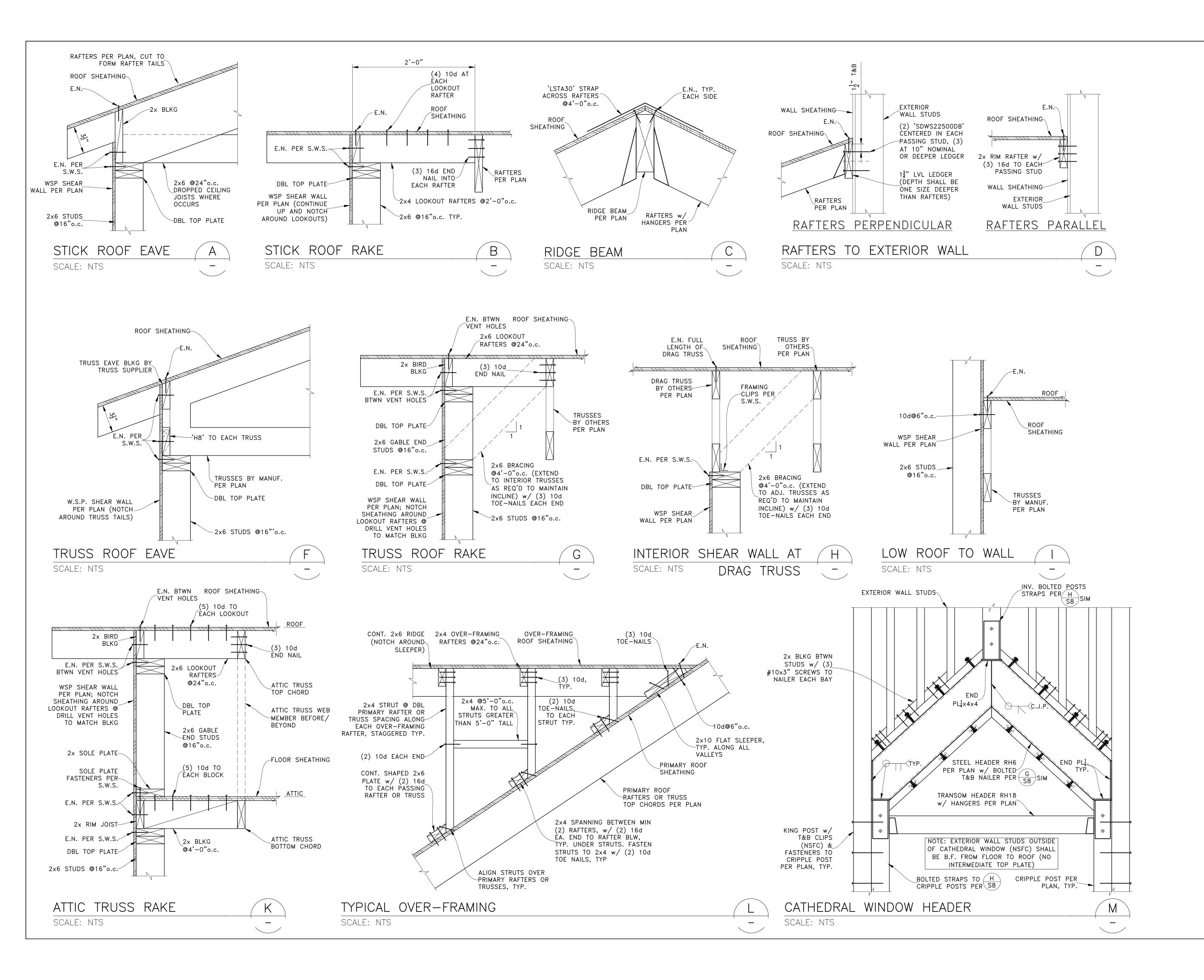
55.1

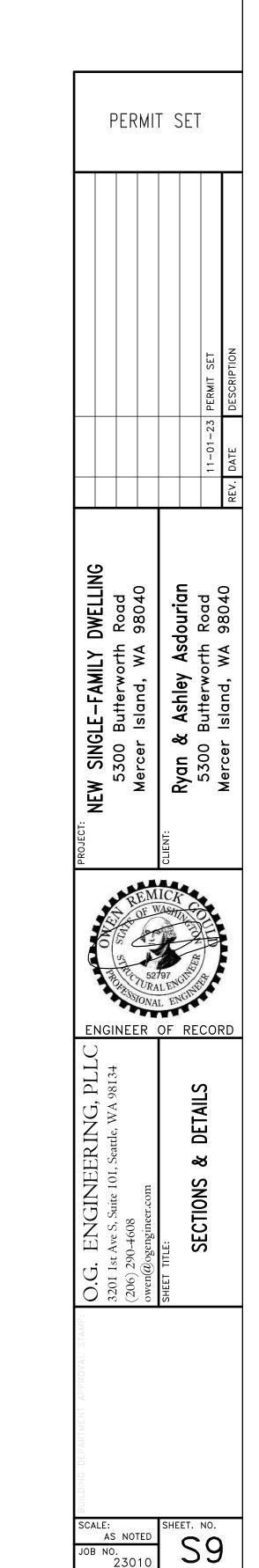


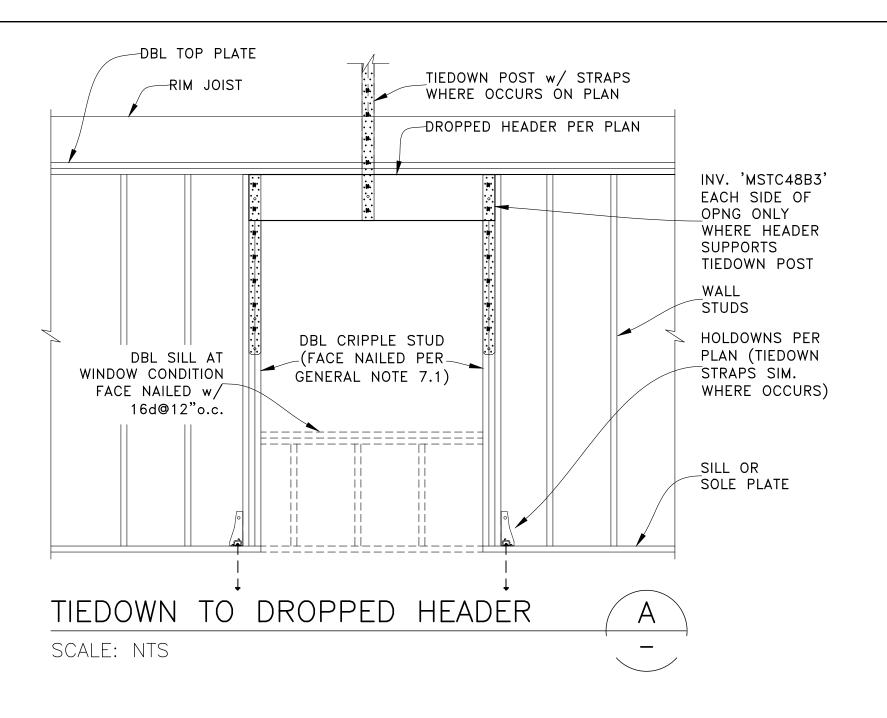


SHEET. NO.









PROJECT:

NEW SINGLE—FAMILY DWELLING

5300 Butterworth Road

Mercer Island, WA 98040

CLIENT:

Ryan & Ashley Asdourian

5300 Butterworth Road

SECTIONS &

SCALE:
AS NOTED

JOB NO.
23010

SHEET. NO.

S 1 0

PERMIT SET

