ALEXANDER RESIDENCE -RENOVATION & ADDITION

PROJECT AND SITE DATA

OWNER:

DEBORAH ALEXANDER

ADDRESS:

6010 E MERCER WAY MERCER ISLAND, WA 98040

PARCEL NUMBER: 192405-9206

LEGAL DESCRIPTION:

POR OF SE 1/4 BEG AT NXN OF LN 1300 FT N OF S LN OF SEC WITH ELY LN OF E MERCER WAY TH S 88-33-02 E 470 FT TH S 01-26-58 W 20 FT TO PT 1200 FT N OF S LN OF SEC TH N 88-33-02 W TO PT S 01-26-58 W FR TPOB TH N 01-26-58 E 80 FT TO TPOB TGW SH LDS ADJ

LOT SIZE:

18,318 SF (0.42 ACRES)

ZONING INFORMATION

ZONE TYPE: BASE ZONE: R15

BUILDING CODE: IRC 2018

VICINITY MAP



CONTACTS

STRUCTURAL

S1.00

S2.00

CIVIL

C 0.1

C1.0

C2.0

ARCHITECT CO DAVIDSON ARCHITECTS 15037 SE 171ST ST RENTON, WA 98058 P. 206.992.1853

E. CDAVIDSON@CODARCHITECTS.COM CONTACT. CHRIS DAVIDSON, AIA

GEOTECHNICAL ENGINEER EARTH SOLUTIONS NORTHWEST 15365 NE 90TH STREET, SUITE 100 REDMOND, WA 98052 P. 425.449.4704 E. SCOTTR@ESNW.COM

CONTACT. SCOTT S. RIEGEL, LG, LEG

STRUCTURAL ENGINEER CT ENGINEERING 180 NICKERSON ST, SUITE 302 SEATTLE, WA 98109

P. 206.285.4512 E. CROBERTS@CTENGINEERING.COM CONTACT. CRAIG ROBERTS

SITE SURVEY ENGINEERING & SURVEYING 165 NE JUNIPER ST, SUITE 201 ISSAQUAH, WA 98027 P. 425.392.0250

E. SMCCASKEY@ENCOMPASSES.NET CONTACT. STEVE McCASKEY, PLS

DEFERRED PERMIT LIST

ELECTRICAL, MECHANICAL, PLUMBING, AND FIRE PERMIT*

EXTERIOR AND INTERIOR ELEVATIONS

FOUNDATION & ROOF FRAMING PLANS

STRUCTURAL PLAN AND NOTES

S6.00 SIRUCTURAL DETAILS

(E) UTILITIES

(E) SEWER

WATER

PERMIT NUMBER

PROJECT NUMBER

2022-4

SUBMITTAL: PERMIT SUBMITTAL

DATE: PERMIT RESUBMITTAL 3/31/23

SHEET INDEX

GENERAL

COVER SHEET

G2 SITE PLAN AND GENERAL PROJECT NOTES

SITE SURVEY

ARCHITECTURAL

SITE PLAN - EXISTING SITE PLAN - PROPOSED

DEMO PLAN

FLOOR PLAN, DOOR AND WINDOW SCHEDULES

ROOF PLAN

GENERAL NOTES

- VERIFY CONDITIONS BEFORE STARTING WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
- TAKE EVERY PRECAUTION TO SAFEGUARD PERSONS AND PROPERTY
- STORE MATERIALS IN AREA APPROVED BY OWNER. REPAIR ALL DAMAGES CAUSED BY CONSTRUCTION IN THIS CONTRACT.
- REMOVE DEBRIS FROM THE BUILDING SITE AS IT ACCUMULATES TO PREVENT UNSAFE CONDITIONS. PROTECT CONSTRUCTION FROM WEATHER AS WORK PROCEEDS.

- 1. CONFORM TO ALL APPLICABLE CODES AND REGULATIONS 6. ELECTRICAL PLUMBING AND MECHANICAL WORK UNDER SEPARATE PERMIT.
 - 7. INSTALL AND APPLY MATERIALS PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
 - 8. DIMENSIONS ARE GIVEN TO FACE OF STUD, FACE OF CONCRETE AND TO ROUGH OPENING, UNO.
 - 9. VERIFY FIGURES SHOWN ON THE DRAWINGS BEFORE LAYING OUT THE WORK, REPORT ERRORS AND INACCURACIES IN WRITING TO THE ARCHITECT BEFORE COMMENCING WORK.
 - 10. ALIGN WINDOW AND DOOR HEADERS, UNO.
 - 11. WRITTEN NOTES SUPERSEDE GRAPHIC DESCRIPTIONS.
 - 12. WRITTEN DIMENSIONS SUPERSEDE SCALED DRAWINGS.

GROSS FLOOR AREA CALCULATIONS

| - | | | | | | |
|---|------------------------|---------------------|------------------------|----------|----------|-------|
| | FLOOR | SPECIAL FLOOR AREA | GFA MODIFIER | EXISTING | PROPOSED | TOTAL |
| | UPPER FLOOR | | | 690 | 0 | 690 |
| | MAIN FLOOR | | | 1890 | 254 | 2144 |
| | | LIVING/ DINING AREA | 12'-16' CLG (150% MOD) | 900 | 0 | 900 |
| | GROSS BASEMENT AREA | | | 420 | 0 | 420 |
| | GARAGE | | | 500 | 0 | 500 |
| | | | TOTAL | 4400 | 254 | 4654 |

| ALLOWED GROSS FLOOR AREA | | | | | | | | | |
|--------------------------|-----------|-------------|-------------|--------------|----------------------|--|--|--|--|
| ZONE | SITE AREA | ALLOWABLE % | ALLOWED GFA | EXISTING GFA | PROPOSED GFA 4654 | | | | |
| R-15 | 18318 | 40% | 7327 | 4400 | 4654 | | | | |

*Note see sheets A0a and A0b for breakdown of Existing vs Proposed Gross Square Footage APPROVAL STAMP

TITLE SHEET & GENERAL

INFORMATION

- B. Fill to be free of debris, organic contaminants and rock fragments larger than 6 inches. Use free-draining sand or sand and gravel conditioned to appropriate moisture content for adequate compaction. Fill shall contain no more than 5% fines relative to the fraction passing the $\frac{3}{4}$ " sieve. For house, slab or pavement areas, compaction of fill to be at least 95% of the maximum dry density (MDD) per ASTM D-1557 testing procedures. Utility trench backfill in settlement-sensitive areas to be compacted at least 90% of the MDD, except for the top 2 feet which should be compacted to 95% of the MDD.
- Structural fill to be placed in loose layers of not more than 8" layers for heavy equipment, or 4" for lightweight compaction equipment. Fill should be conditioned to the proper moisture content for compaction. Compact each lift before placing subsequent layers.
- For footings supported on structural fill, the zone of structural fill should extend laterally out from the looting edges a distance at least equal to the thickness of the structural fill. Structural fill placed beneath footing should be compacted to at least 95% of the MDD in accordance with ASTM D-1557.
- E. All exterior and interior footings to be at least 18" and 12" respectively below the lowest finished adjacent grade.
- F. Crawl space per R408.

FRAMING (Site-specific structural engineering shall govern)

- A. All materials and workmanship shall conform to the requirements of the drawings, notes, specifications, and all applicable codes and ordinances.
- B. All frame construction shall conform to minimum standards of IBC/IRC. Fastening requirements to be in accordance with IBC. See Structural Drawings Structural Notes, and specifications for any other notes that may relate specifically to grades and sizing of all framing member.
- C. Columns and posts located on concrete or masonry floors or decks exposed to the weather or to water splash or in basements and which support permanent structures shall be supported by concrete piers or metal pedestals projecting above floors unless approved wood of natural resistance to decay or treated wood is used. The pedestals shall project at least 6 inches above exposed earth and at least 1 inch above such floors.

Per IBC: penetrations, soffits, drop & cove ceilings

Wood/Earth separation per R317

Fenestration U-Factor b

Skylight U-Factor b

- Maintain all integrity of required 1 hour separations between different Occupancy Types. See Drawings and details for Required One and Two Hour Party Walls between units. Garage/Dwelling per R302.5 & 302.6
- E. Where installation includes manufactured products, comply with the manufacturer's applicable instructions and recommendations for installation. Verify rough-in dimensions for equipment and provide buck-outs, backing and jacks as required.
- F. All Guardrails per R312 to be 36" high minimum from finished floor line. Openings in railing assemblies are not to exceed 4" in one direction. Guardrails and handrails to withstand a 200 lb/sf concentrated load applied in any direction at any point along the top. Guardrail in-fill components (all those except the handrail), balusters and panel fillers shall be designed to withstand a horizontally applies normal load of 50 lbs on an area equal to 1 square foot. This load need not be assumed to act concurrently with any other live load requirement. Handrails to be between 1½" dia. and 2" dia. with clearance of 1½" between rail and wall surface. mount between 34" and 38" off stair nosing.
- DECKING: All wood exposed to weather, such as wood used for deck framing including decking, railings, joists, beams, and posts shall be pressure treated or of wood with natural resistance to decay.
- H. Unless noted otherwise, dimensions are to face of studs, face of foundation walls, centerline of columns, centerline of doors and windows. When exterior walls rare dimensioned as 6", they include $\frac{1}{2}$ " sheathing over 2x6 studs @ 16" oc.

DOORS AND WINDOWS

- A. Doors as selected by Owner, but must meet code, egress, hardware, requirements as per
- B. See floor plans for sizes. Rating and required u-values shall be per plan and as set forth on this sheet. See schedules attached or in drawings. All exterior doors, windows and skylights shall be NFRC certified and shall meet SEC 402.4 for leakage.
- C. All Dwelling Units shall have dead-bolts that have thumb-turn to the inside. D. Electric Garage Door to be installed by Company familiar with Safety Requirements.
- E. All doors with required fire rating shall comply with provisions in this section, and shall be self closing and latching with no hold-opens. fire doors and dampers shall have an approved label or listing mark, identifying the fire-protection rating permanently affixed at the factory per IBC 715.3.3 All treated doors to have 3 hinges per leaf. When spring hinges are used for self-closing requirements, not less than half of the hinges are to be spring
- F. All glazing within 24" of a door, or within 18" from a floor surface to be tempered, including any glass shower or tub doors. Additionally, glazing within 5 feet of the bottom or top of stairways where the sill is less than 60" AFF shall be safety glazed. IRC R308.3 & 308.4 specifies other hazardous locations also requiring safety glazing.
- G. Egress windows from sleeping rooms and basements with habitable space w/o sleeping room to have a minimum net clear opening of 5.7 SF, minimum of 24" clear height, 20" minimum clear width, with maximum sill height of 44" above finished floor per IRC R310.
- H. SKYLIGHTS per R308.6

DRYWALL FINISH ASSUME TYPE IV FINISH, TYP.

- A. Provide $\frac{1}{2}$ " gypsum wall board for non-rated assemblies and $\frac{5}{8}$ " type "x" gypsum wall board for 1-hour rated assemblies with all exposed joints and fastener heads smooth and flush with surface of board. joints taped and prepared for application of finish. use water-resistant board at all wet areas to 4'-0" AFF.
- B. "Recommended Specifications for the Application and Finishing of Gypsum Board," latest edition, as published by the Gypsum Association (also published as ANSI 97.1 and "Using Gypsum Board and Ceiling," latest edition).
- C. When gypsum board is used as a base for tile or wall panels for tub, shower or water closet compartment walls, water resistant gypsum backing board shall be used per IRC

MECHANICAL

- A. HVAC and Plumbing work shall be performed in a "Bidder-Design" manner. The
- Contractor shall submit such systems separately for permit.
- B. It is the Contractor's responsibility to design systems that meet all requirements and codes. Contractor shall submit drawings, pay for, and obtain permit and perform work in a manner that meets or exceeds the recognized workmanship standards for the industry.
- C. All drawings are to be submitted for review and approval to the Owner before performing
- D. Heating is electric or gas either piping of hydronic heat or forced air via duct and furnace, to be determined. All furnaces shall be listed and labeled by an approved agency and installed per listed specifications.
- E. IC Chapter 24 covers fuel gas applications

U-Factor ^a

0.30

0.50

- F. Appliances intended for installation in closets, alcoves or confined spaces shall be sl listed per code, IMC.
- G. Appliances installed in garages or other areas where they may be subject to mechanical damage shall be suitable guarded against such damage by being installed behind
- protective barriers or by being elevated or located out of the normal path of vehicles. H. Equipment located in a garage and capable of igniting flammable vapors shall be installed
- with the pilots and burners or heating elements and switches at least 18 inches above the Appliances designed to be in a fixed position shall be securely fastened in place. Supports for appliances shall be designed and constructed to sustain vertical and horizontal loads
- within the stress limitations in the building code and IMC. Verify types, Manufacturer, and locations of all plumbing fixtures and faucets with Owner
- prior to purchasing and/or installing. K. Vent outlet for gas appliances shall be 3' minimum away from operable windows, and 10' minimum away from fresh air intakes per WSEC and IRC chapter 24

WATER CONSERVATION NOTES

- B. Kitchen faucets: max flow rate = 1.75 gal/min
- C. Showerheads: max flow rate = 1.75 gal/min
- A. Bathroom lavatory faucets: max flow rate = 1 gal/min
- FIREPLACE NOTES (see IRC Chapter 10; Pre-fab metal per R1002, R1003, R1005) A. Gas fireplace shall be approved by the building official as applicable for safe use or comply with applicable nationally recognized standards as evidenced by the listing and
- labeling by an approved agency such as the EPA. B. Instruction manuals for installation, operation repair and maintenance shall be left and attached to the appliance by the installer.
- Direct vent outlet for fireplace shall be 3' minimum away from operable windows, and 10' minimum away from fresh air intakes per per WSEC

VENTILATION per SRC M1507

- Continuously operating whole house fan is proposed.
- B. Provide outdoor air inlet with 4 sq. in. min net free area for each habitable space.

INDOOR AIR QUALITY NOTES

- A. Range exhaust & dryers: Domestic kitchen range ventilation and domestic clothes dryers shall be of metal and have smooth interior surfaces. Ducts shall be substantially airtight and shall comply with the provisions of Chapter 6 UMC. Exhaust ducts shall terminate outside the building and be equipped with back-draft dampers.
- B. Moisture exhaust ducts for clothes dryers shall terminate on the outside of the building and shall be equipped with a back-draft damper. Screens shall NOT be installed at the duct termination. Ducts for exhausting clothes dryers shall NOT be connected or installed with sheet metal screws or other fasteners which will obstruct the flow.
- C. Unless otherwise permitted or required by the dryer manufacturer's installation instructions and approved by the building official, dryer exhaust ducts shall not exceed a total combined horizontal and vertical length of 14 feet including two 90-degree elbows. Two feet shall be deducted for each 90-degree elbow in excess of two.

SMOKE ALARM / DETECTORS PER IRC R314

- A. Smoke alarms shall be installed in the following locations:
- 1. Each sleeping room
- 2. Outside each separate sleeping area in the immediate vicinity of the bedrooms 3. On each additional habitable story of the dwelling, including basements
- B. When more than one smoke alarm is required to be installed within an individual dwelling unit the alarm devices shall be interconnected in such a manner that the actuation of one alarm will activate all of the alarms in the individual unit. The alarm shall be clearly audible in all bedroom over background noise levels with all intervening doors closed. All smoke alarms shall be listed and installed in accordance with the provisions of IRC and the household fire warning equipment provisions of NFPA 72. Primary power to come from
- building wiring per IRC R314 from commercial source with battery back-up. C. Provide an approved carbon monoxide alarm on each level of the dwelling per R315.

FIRE-RESISTIVE REQUIREMENTS A. CONSTRUCTION PER R302

- Interior & exterior bearing walls, & non-bearing walls to be type V B construction as
- Floors & floor/ceilings to be type VB construction
- Roofs & roofs/ceilings to be type VB construction
- NOTE: All garage interior walls, ceilings, structural support systems exposed therein, and voids under stairs shall be 1-hour construction per plans and details.
- B. TYPES OF CONSTRUCTION: Standards of Quality Construction materials shall be labeled appropriately, as required by the local municipality, showing that they comply with local code standards for such materials as building paper, decking material, foam plastics,
- C. FIRE RESISTIVE MATERIALS & SYSTEMS: Fire resistance ratings of walls, floors, roof assemblies shall meet criteria set forth in IBC or based on submitted information showing equivalent fire resistive rating.
- D. FIRE BLOCKING AND DRAFTSTOP per R302.11, R302.12, 502.12 and R602.8
- E. PROTECTION OF STRUCTURAL MEMBERS: Thickness of protection over structural members shall be as per IBC. See wall types and sections in these drawings for specifics.
- F. COLUMN JACKETING: Where fire resistive covering on columns is exposed to injury from moving vehicles or other means, contractor shall protect area from damage and deterioration

ELECTRICAL

- A. Electrical work shall be performed in a "Bidder-Design" manner. The contractor shall submit such systems separately for permit.
- B. It is the Contractor's responsibility to design systems that meet all requirements and codes. contractor shall submit drawings, pay for, and obtain permit and perform work in a
- manner that meets or exceeds the recognized workmanship standards for the industry. C. All drawings are to be submitted for review and approval to the Owner before performing work. Specific attention is to be paid regarding Owner-requested locations of electrical, phone and computer cabling port locations.
- Proper protection shall be provided around recessed light fixtures per manufacturer's recommendations so that overheating will not occur. Recessed light fixtures to be IC rated.
- E. At least 75% of permanent lighting fixtures to be high efficacy lamps WSEC R404

- A. IRC R311.7, min 36" wide, max riser = $7\frac{3}{4}$ ", min tread = 10". Hand rails shall not project more than 4½" into the 36" clear pathway on either side.
- B. LANDINGS: There shall be a floor of landing at the top and bottom of each stairway except a door swinging except a door swinging away from the stairs is ok for interior stairs. The width of each landing shall not be less then the width of the stairway served, min 36" in the direction of travel. Max 2% slope.
- C. HANDRAILS: 34" to 38", min 1½" clear from wall, continuous from full-length of flight where risers are. Handrail ends shall be returned or terminate in newel posts or safety terminals. Newel posts can interrupt handrails at turns. The lowest tread may have a volute, turnout or newel. Handrails shall be of the two type listed in IRC 311.7 or provide equivalent graspability.

SECURITY per Seattle Residential Code Section R329

A. Provide building entrance locks and observation ports at approx. 60" AFF in accordance with this section.

SOUND TRANSMISSION CONTROL per Seattle Residential Code section R330 A. Assemblies separating dwelling units shall provide:

- At walls: airborne sound insulation at STC 45 per, ASTM E 90.
- At floor-ceiling airborne and impact sound insulation at an "Impact Insulation Class" (IIC) or min. 50 per ASTM E 492.
- B. Fire-resistive integrity shall be maintained.

MINIMUM AREAS FOR HABITABLE ROOMS per R304:

- Common room: 120 SF; Cooking + Living or Living + Sleeping: 150 SF; Kitchens are exempt from minimum area and dimensions.
- IRC DEFINITION OF HABITABLE SPACE: A space in a building for living, sleeping, eating or cooking. Bathrooms, toilet rooms, closets, halls, storage or utility spaces and similar areas are not considered habitable spaces

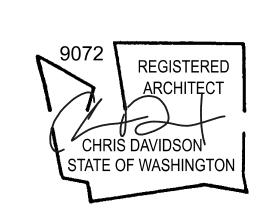
CEILING HEIGHT per IRC R305

- A. Habitable spaces/rooms, hallways, corridors, bathroom, toilet rooms, laundry rooms and basements shall have a ceiling height not less than 7 feet measured from FINISH floor to FINISH ceiling. Beams at least 4 feet on center can project into space 6 inches.
- B. SLOPED CEILINGS: Not more than 50% of the REQUIRED floor area of a room/space is permitted to have a sloped ceiling less than 7 feet or a portion less than 5 feet, (i.e. minimum REQUIRED bedroom is 70 SF per R304.3, so at least 35 SF of a bedroom needs to have ceiling heights over 7 feet and the other 35 SF over 5 feet.



15037 SE 171st St Renton, WA 98058 206.992.1853 tel

> SIDENCE ¥ S S S S



PERMIT NUMBER

PROJECT NUMBER

2022-4

SUBMITTAL: DATE: PERMIT SUBMITTAL 9/27/22 PERMIT RESUBMITTAL 3/31/23

APPROVAL STAMP

GENERAL PROJECT NOTES

| Gla | azed Fenestration SHGC b,e | n/a | n/a | | | |
|--------------------------|--|---|--|--|--|--|
| Cei | iling ^e | 49 1 | 0.026 | | | |
| W | ood Frame Wall ^{g,h} | 21 int | 0.056 | | | |
| Flo | or | 30 | 0.029 | | | |
| Bel | low Grade Wall ^{c,h} | 10/15/21 int + TB | 0.042 | | | |
| Slab d,f R-Value & Depth | | 10, 2 ft | n/a | | | |
| а | than the label or design thickness | s and SHGC are maximums. When insu of the insulation, the compressed R-vanimers of the R-value specified in the table. | lation is installed in a cavity that is less alue of the insulation from Appendix | | | |
| b | The fenestration U-factor column | 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 | | | | | |

All Climate Zones (Table R402.1.1)

R-Value *

n/a

n/a

10/15/21 +5 IB means K-10 continuous insulation on the exterior of the wall, or K-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 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 framing 16 inches on center, 78% of the wall cavity insulated and headers insulated with a minimum of R-10 insulation.

Small Dwelling Unit: 3 credits

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

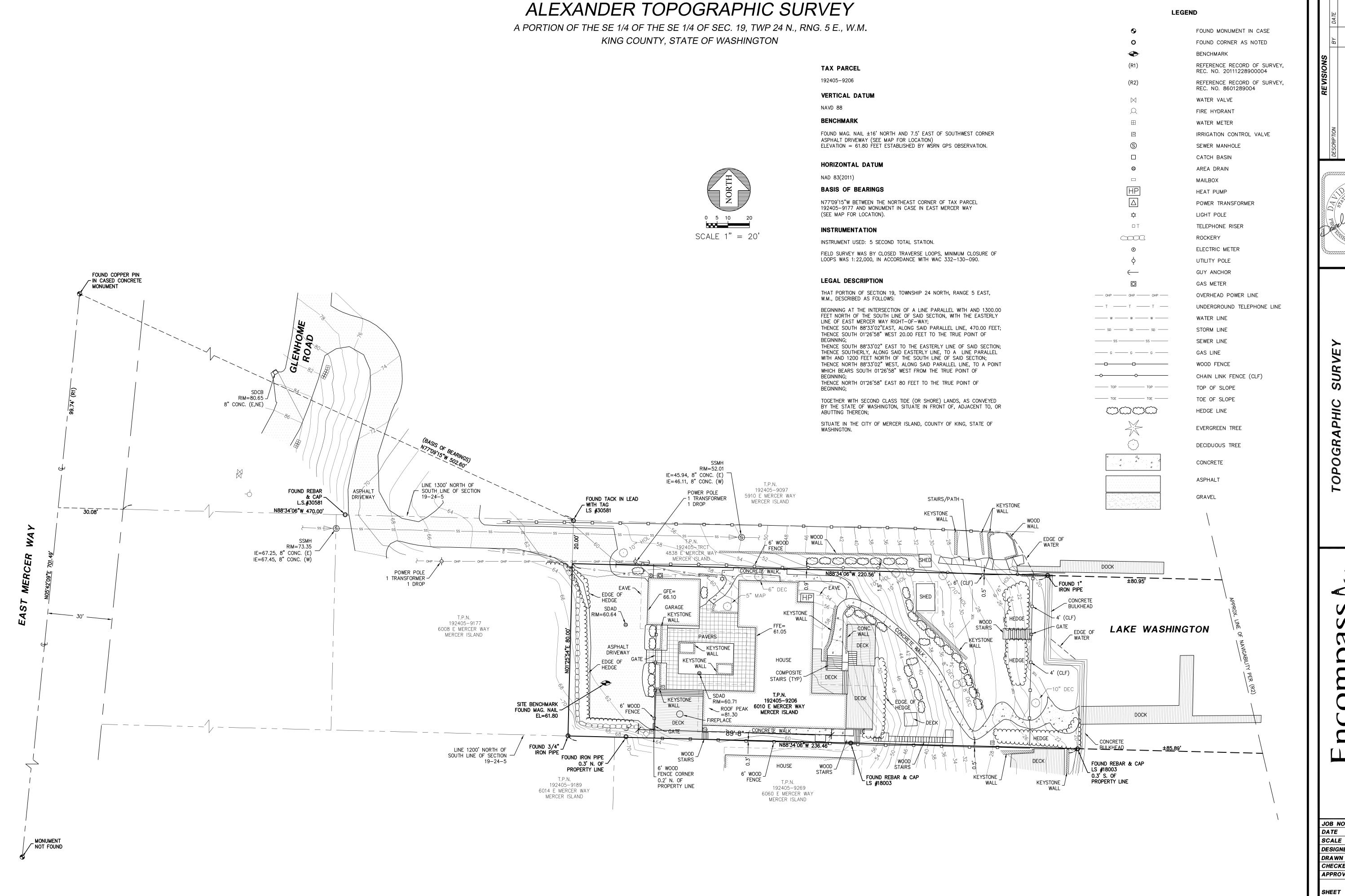
3. Large Dwelling Unit: 7 credits

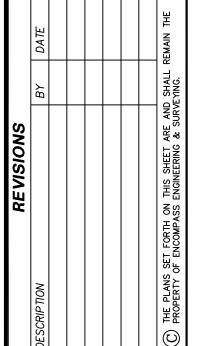
Dwelling units exceeding 5,000 st of conditioned floor area

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 Ta | ble R406.2 | | |
|--------------------|---|---|--------|--------------------------|
| Heating Options | Fuel Normalization Descriptions | Credits - select ONE heating option | | User Notes |
| 1 | Combustion heating minimum NAECA ^b | 0.0 | 0 | |
| 2 | Heat pump ^c | 1.0 | • | |
| 3 | Electric resistance heat only - furnace or zonal | -1.0 | 0 | |
| 4 | DHP with zonal electric resistance per option 3.4 | | 0 | |
| 5 | All other heating systems | -1.0 | 0 | |
| Energy Options | Energy Credit Option Descriptions | Credits - select ONE energy option from each category d | | |
| 1.1 | Efficient Building Envelope | 0,5 | 0 | |
| 1.2 | Efficient Building Envelope | 1.0 | 0 | |
| 1.3 | Efficient Building Envelope | 0.5 | • | Floor insulation to R-38 |
| | Total Credits | | 1.5 CL | EAR FORM |







FOR SONVER

NG & SURVEYING

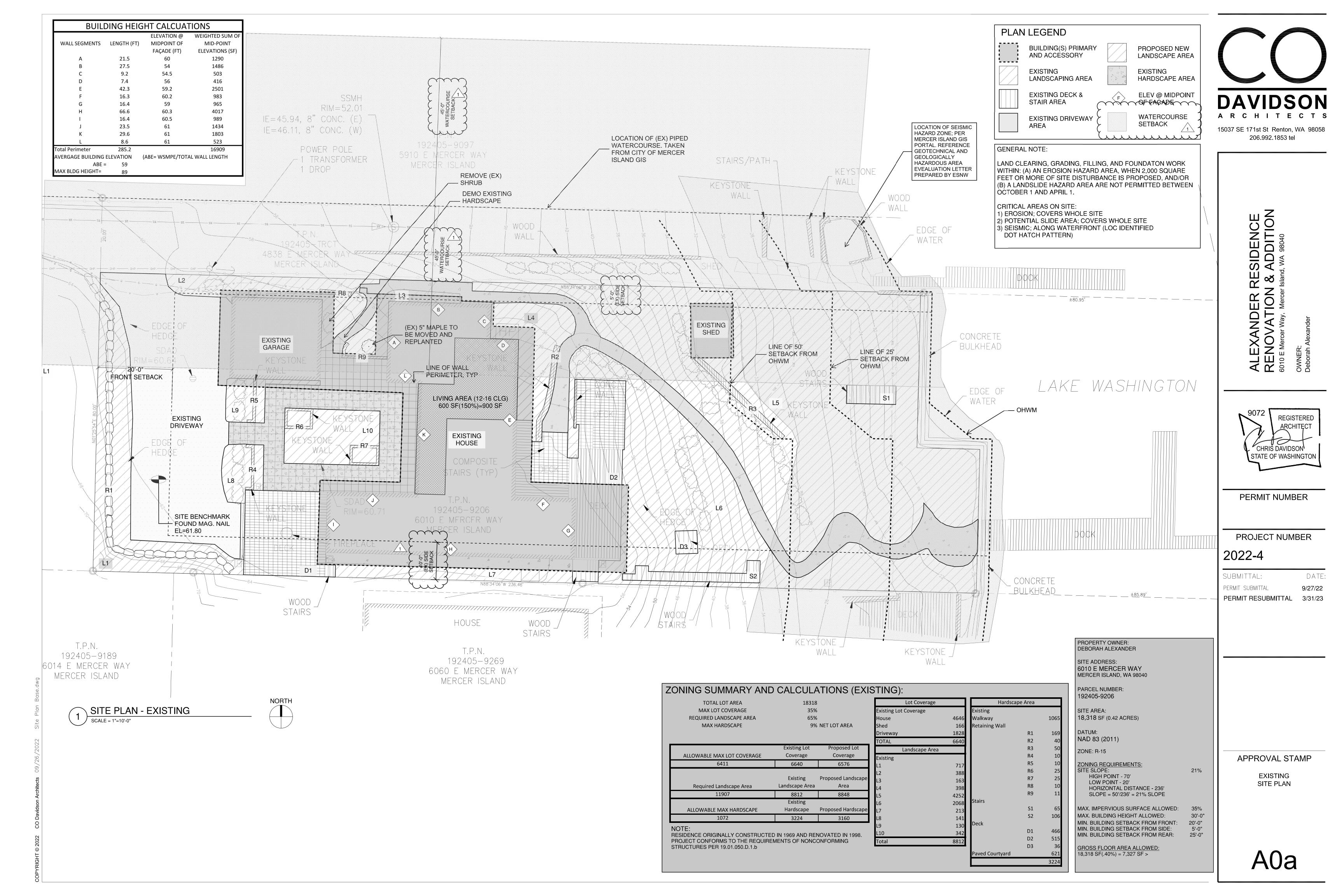
Washington Division

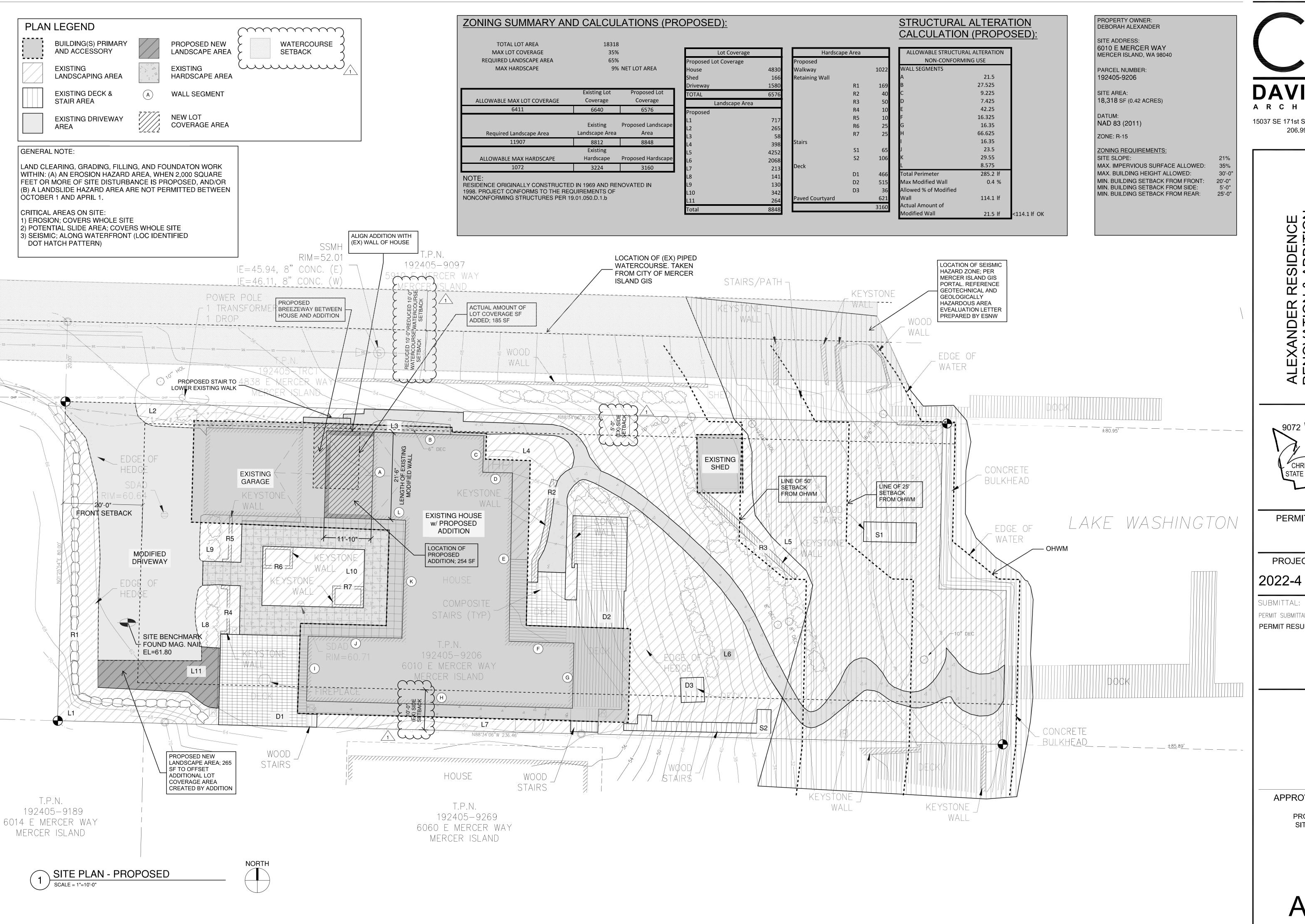
Washington Division

Washington Division

165 NE Juniper Street, 3

| OB NO. | 22654 |
|--------------|---------|
| ATE | 9/14/22 |
| CALE | 1"=20' |
| ESIGNED | N/A |
| R <i>AWN</i> | LFM |
| HECKED | DBM |
| PPROVED | DBM |
| | |
| HEET | 1 OF 1 |





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PERMIT NUMBER

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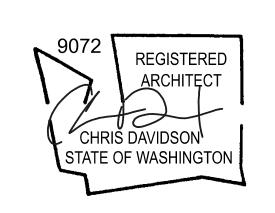
DATE: SUBMITTAL: 9/27/22 PERMIT SUBMITTAL PERMIT RESUBMITTAL 3/31/23

APPROVAL STAMP

PROPOSED SITE PLAN



15037 SE 171st St Renton, WA 98058 206.992.1853 tel



PERMIT NUMBER

DATE:

PROJECT NUMBER

2022-4

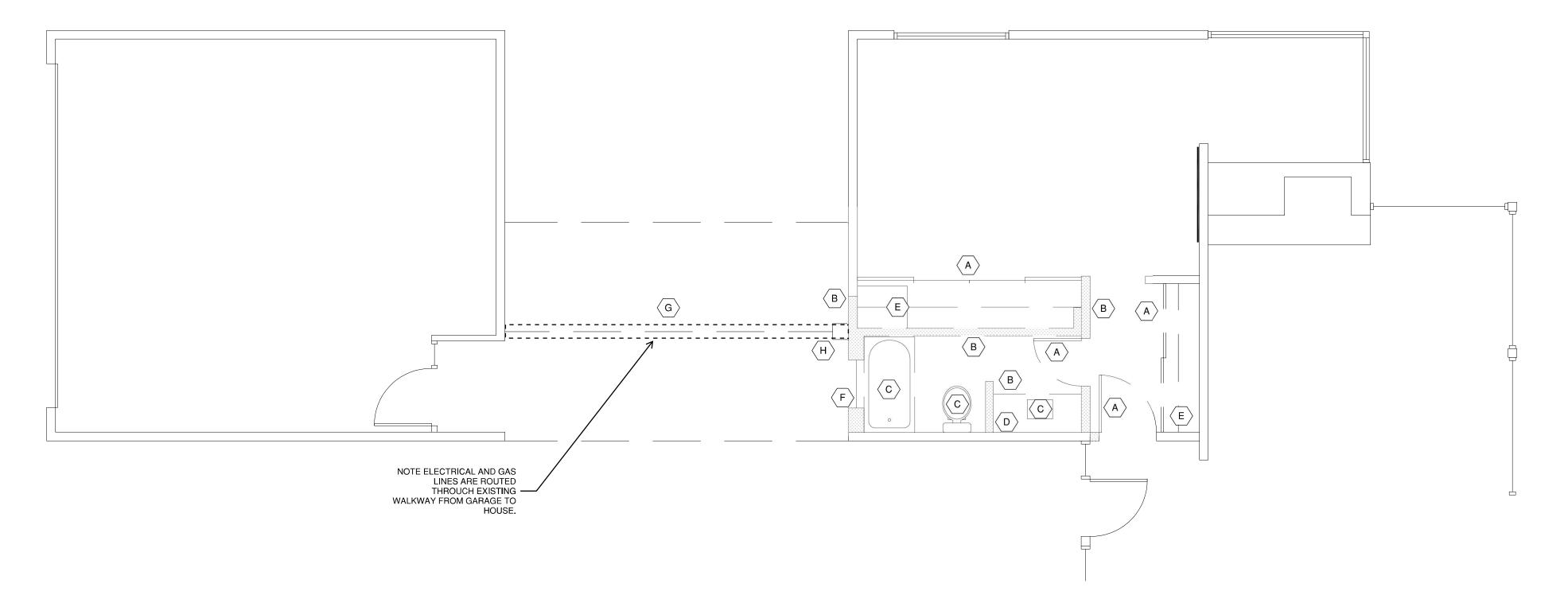
SUBMITTAL: PERMIT SUBMITTAL PERMIT RESUBMITTAL 3/31/23

APPROVAL STAMP

FIRST FLOOR -DEMO PLAN

DEMOLITION NOTES:

- A DEMOLISH ALL DASHED DOORS, TYP.
- B DEMOLISH ALL DASHED AND HATCHED WALLS, TYP.
- © DEMOLISH PLUMBING FIXTURES
- D DEMOLISH CASEWORK
- E DEMOLISH CLOSET PACKAGES
- F DEMOLISH EXISTING WINDOW
- G DEMOLISH EXTERIOR COVERED WALKWAY.
- H RELOCATE EXISTING DRAIN



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

FLOOR PLAN LEGEND

WALL TO BE DEMOLISHED

EXISTING FULL HT WALL

DOOR TAG

ELEVATION TAG

FRAME

sections

jamb

special

—#
WALL TAG

head

EXISTING FULL HT WALL

INTERPORTED AND ALL

manufacturer |type|matl|

NOTE: MATCH NEW HARDWARE TO EXISTING HARDWARE SETS

DOOR SCHEDULE

opening

number

SD COMBO CO/ SMOKE DETECTOR

DOOR

S WD WD 2'-8" MATCH EX 1 1/2"

SIMPSON | PD | WD | WD | 2'-8" | MATCH EX | 1 1/2"

nominal size

leaf width | height | thickness

BATHROOM/ LAUNDRY FAN

special

detail

threshold

detail

BD MT

S WD

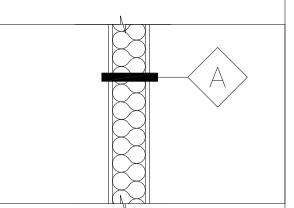
WALL CONSTRUCTION GENERAL NOTES

- A. PROVIDE 6" HIGH WOOD BLOCKING OR METAL STRAP AT WALL HUNG ACCESSORY LOCATIONS INCLUDING, BUT NOT LIMITED TO MARKER BOARDS, TACKBOARD, CASEWORK, ETC. VERIFY WITH ARCHITECT IF ANY . CLARIFICATION IS REQUIRED. PROVIDE FIRE RETARDENT TREATED WOOD IN RATED WALL AREA.
- . ALL DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD AND FROM FACE OF STUD TO EXISTING WALL FINISH WHERE DIMENSIONS TAKEN FROM EXISTING WALL TO REMAIN. CONTACT ARCHITECT WITH ANY DISCREPANCIES IN DIMENSION PRIOR TO COMMENCEMENT OF CONSTRUCTION. GENERAL CONTRACTOR IS RESPONSIBLE FOR REVIEW OF EXISTING CONDITIONS AND LAYOUT OF NEW CONSTRUCTION PRIOR TO STARTING
- C. PROVIDE 5/8" THICK CEMENT BOARD AT ALL WALLS WHERE TILE INSTALLATION IS REQUIRED IN LIEU OF GYP
- D. SCRIBE GYPSUM BOARD TIGHT TO THE BOTTOM OF DECK AND SPECIFICALLY WHEN PERPENDICULAR TO DECK. CAULK ALL JOINTS
- E. ALL NEW WALLS TO BE WALL TYPE B, UNLESS NOTED OTHERWISE.
- F. (EX) WALLS TO REMAIN MAY REQUIRE PATCHING AND REPAIR.

WALL TYPES

INTERIOR WALLS

TYPE A - INTERIOR 2X6 WOOD STUD WALL

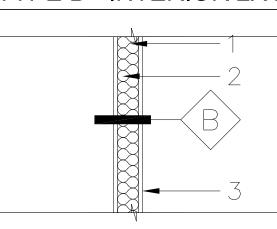


2X6 WOOD STUDS AT 24" O.C. TO THE BOTTOM OF STRUCTURAL ROOF FRAMING.

4" THICK SOUND ATTENUATION BATT INSULATION. FRICTION FIT BETWEEN STUDS. OPTIONAL

BOTH SIDES: 5/8" THICK TYPE GYP BOARD TO THE BOTTOM OF FINISH CEILING. TAPE, TEXTURE, AND PAINT. COLOR TO BE SELECTED. PROVIDE MOISTURE-RESISTANT GYP BOARD AT WET LOCATIONS BATHROOM AND WET AREAS) AND

TYPE B - INTERIOR 2X4 WOOD STUD WALL



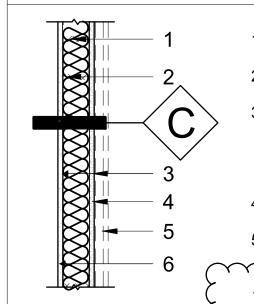
- 2X4 WOOD STUDS AT 24" O.C. TO THE BOTTOM OF STRUCTURAL ROOF FRAMING.
- 4" THICK SOUND ATTENUATION BATT INSULATION. FRICTION FIT BETWEEN STUDS. OPTIONAL
- BOTH SIDES: 5/8" THICK TYPE GYP BOARD TO THE BOTTOM OF FINISH CEILING. TAPE, TEXTURE, AND MOISTURE-RESISTANT GYP BOARD AT WET LOCATIONS BATHROOM AND WET AREAS) AND CEMENT BOARD UNDER CERAMIC/ PORCELAIN TILE FINISHES

EXTERIOR WALLS

GA WP3510

 $\sim\sim\sim\sim$

TYPE C - EXTERIOR 2X6 WOOD STUD WALL



- 1. 2X6 WOOD STUDS AT 24" O.C. TO THE BOTTOM OF ROOF DECK.
 - 2. R-21 BATT INSULATION
 - INTERIOR SIDES: 5/8" THICK TYPE GYP BOARD TO THE BOTTOM OF FINISH CEILING. PROVIDE MOISTURE RESISTANT GYP BOARD AT WET LOCATIONS (RESTROOMS, KITCHENS, AND OTHER WET AREAS) AND CEMENT BOARD UNDER CERAMIC / PORCELAIN TILE FINISHES.
 - 4. EXTERIOR PLY SHEATHING WITH WRB / AB MEMBRANE *
 - 5. NEW SIDING TO MATCH EXISTING, PAINT TO MATCH
 - \sim ADD 5/8" DENSGLASS TYPE X GWB OVER PLYWOOD @ 1HR RATED WALL

minimum management and the contraction of the contr

PERMIT NUMBER

STATE OF WASHINGTO

15037 SE 171st St Renton, WA 98058

206.992.1853 tel

PROJECT NUMBER 2022-4

DATE: SUBMITTAL: PERMIT SUBMITTAL

PERMIT RESUBMITTAL 3/31/23

APPROVAL STAMP

FLOOR PLAN AND DOOR & WINDOW SCHEDULES

MAN PO

r T - TEMPERED う

/SWITCHED

area | l

ELECTRICAL SWITCH DUPLEX RECEPTACLE +44" AFF TO CENTER CTR ABOVE COUNTER

Ø DUPLEX RECEPTACLE ☐ GFI RECEPTACLE

remarks

MFR PROVIDED HDW, FV |

PRIVACY SET

PRIVACY SET

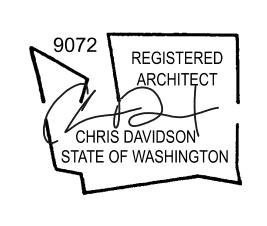
\$ ELECTRICAL SWITCH

+18" AFF TO CENTER GFI

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

DOOR AND WINDOW SCHEDULE

206.992.1853 tel



PERMIT NUMBER

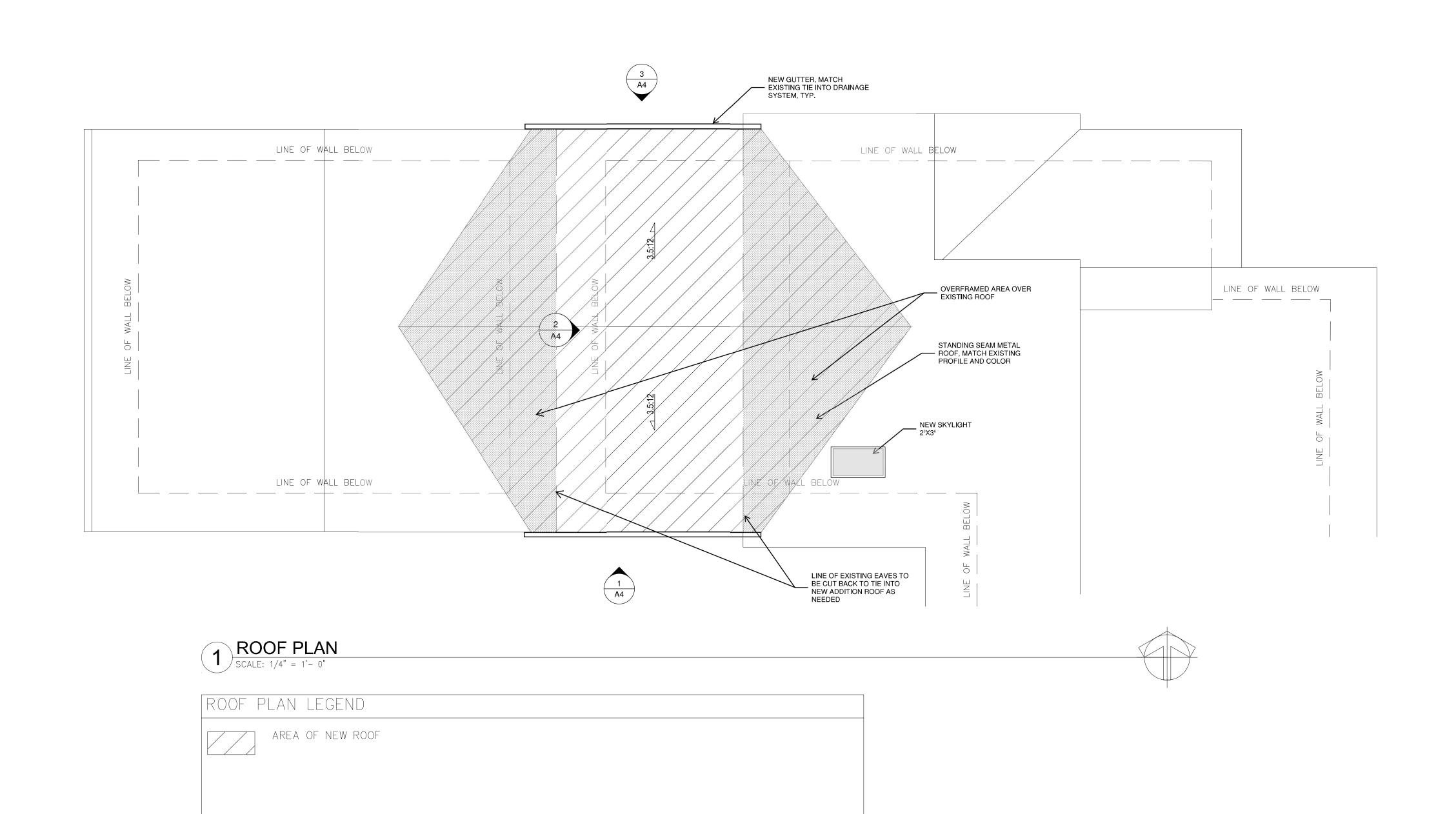
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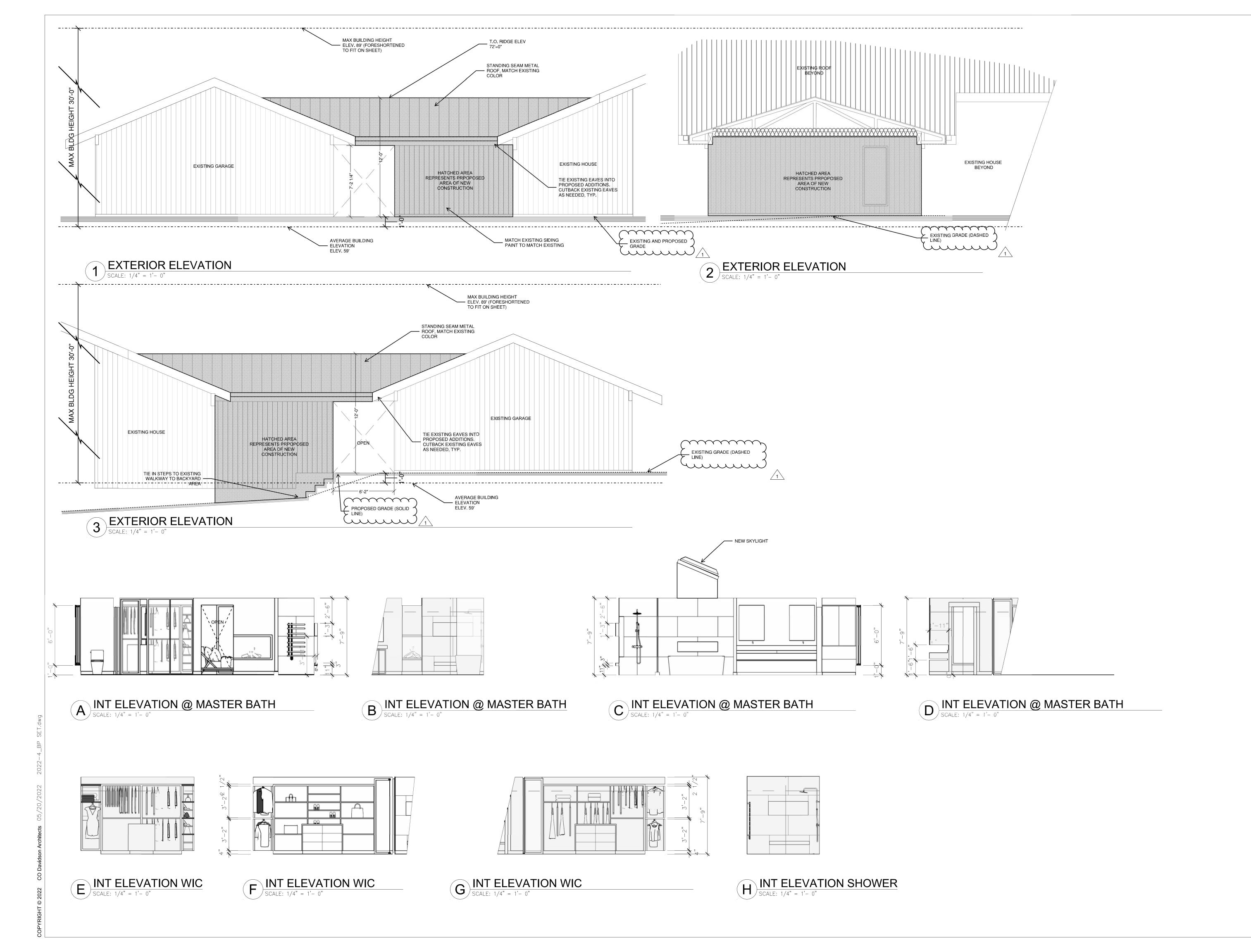
PROJECT NUMBER

2022-4

SUBMITTAL: PERMIT SUBMITTAL PERMIT RESUBMITTAL 3/31/23

> APPROVAL STAMP **ROOF PLAN**

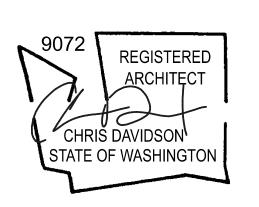






206.992.1853 tel

ALEXANDER RESIDENCE RENOVATION & ADDITION 010 E Mercer Way, Mercer Island, WA 98040



PERMIT NUMBER

PROJECT NUMBER

2022-4

SUBMITTAL: DATE:

PERMIT SUBMITTAL 9/27/22

PERMIT RESUBMITTAL 3/31/23

APPROVAL STAMP

EXTERIOR & INTERIOR ELEVATIONS

A4

STRUCTURAL NOTES

01000: GENERAL REQUIREMENTS

THE STRUCTURAL NOTES SUPPLEMENT THE PLANS AND SPECIFICATIONS. ANY DISCREPANCY FOUND BETWEEN THE DRAWINGS, NOTES, SPECIFICATIONS, SITE CONDITIONS, AND ARCHITECTURAL PLANS SHALL BE REPORTED TO THE ARCHITECT WHO SHALL CORRECT THE DISCREPANCY IN WRITING. ANY WORK COMPLETED AFTER DISCOVERY OF THE DISCREPANCY SHALL BE DONE AT THE CONTRACTOR'S RISK. REFER TO ARCHITECTURAL PLANS FOR OPENINGS, ARCHITECTURAL TREATMENTS, AND DIMENSIONS NOT SHOWN. CONSULT MECHANICAL PLANS FOR DUCTS AND PIPES ETC. NOT SHOWN.

THE CONTRACTOR SHALL PROVIDE BRACING AND SUPPORT REQUIRED FOR TEMPORARY CONSTRUCTION LOADS AND FOR STRUCTURAL COMPONENTS AS REQUIRED DURING ERECTION. BACKFILL BEHIND WALLS SHALL NOT BE PLACED UNTIL THE WALLS ARE PROPERLY SUPPORTED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE EXCAVATION, SHORING, AND OTHER WORK WITH ALL UTILITIES AND ADJACENT PROPERTIES. CALL THE UTILITY LOCATE SERVICE PRIOR TO ANY WORK AT 1-800-424-5555.

01100: CODE REQUIREMENTS ALL DESIGN AND CONSTRUCTION SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE AS ADOPTED BY THE CITY OF MERCER ISLAND. 01200: DESIGN LOADS

FLOOR LIVE LOADS FLOORS (DECK) 40 PSF ROOF (SNOW) 25 PSF

SNOW LOAD DESIGN DATA: Pq = 20 PSF, Pf = 20 PSF, Ce = 0.9, Is = 1.0, Ct = 1.0,

WIND DESIGN DATA:

BASIC WIND SPEED: 100 MPH (3-SECOND GUST) WIND IMPORTANCE FACTOR: |w| = 1.0EXPOSURE B WIND EXPOSURE: TOPOGRAPHIC (Kz) 1.00 ASCE 7-16 ANALYSIS PROCEDURE: EARTHQUAKE DESIGN DATA:

SPECTRAL RESPONSE ACCELERATIONS: Ss = 1.606 SITE CLASS: SITE CLASS D SEISMIC DESIGN CATEGORY: BASIC FORCE RESISTING SYSTEM:

SEISMIC IMPORTANCE FACTOR:

SPECTRAL RESPONSE COEFFICIENTS: SDS = 1.285 SEISMIC DESIGN CATEGORY D BEARING WALL SYSTEM RESPONSE MODIFICATION FACTOR: R = 6.5EQUIVALENT LATERAL FORCE ANALYSIS PROCEDURE:

le = 1.0

S1 = 0.5558

01300: GEOTECHNICAL INFORMATION ALL FOUNDATIONS ARE TO BE FOUNDED ON COMPETENT NATIVE MATERIAL FOUNDATIONS ARE TO BE SUPPORTED ON CONVENTIONAL FOOTINGS. ALLOWABLE BEARING PRESSURE USED IS 1500 PSF.

01330: SHOP DRAWING SUBMITTAL PROCESS SHOP DRAWINGS ARE TO BE SUBMITTED TO THE ARCHITECT AND ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION. IF SHOP DRAWINGS DIFFER FROM THE APPROVED DESIGN DRAWINGS, NEW DESIGN DRAWINGS BEARING THE SEAL AND SIGNATURE OF A LICENSED WASHINGTON STATE STRUCTURAL ENGINEER SHALL BE SUBMITTED ALONG WITH THE SHOP DRAWINGS TO THE APPROPRIATE JURISDICTION FOR APPROVAL PRIOR TO FABRICATION.

SHOP DRAWINGS ARE REQUIRED FOR ROOF AND TJI FLOOR JOISTS AND GLB'S.

01400: SPECIAL INSPECTIONS SPECIAL INSPECTIONS REQUIRED FOR POST INSTALLED EPOXY AND MECHANICAL ANCHORS AND SHEARWALL AND HOLDOWN SYSTEM.

02000: SITE CONSTRUCTION ALL SITE CONSTRUCTION SHALL BE CONSISTENT WITH THE GEOTECHNICAL ENGINEERING RECOMMENDATIONS AS NOTED IN THE GEOTECHNICAL ENGINEERING REPORT (SEE SECTION 01300) AND IN SUBSEQUENT DIRECTIVES.

03000: CONCRETE CONCRETE CONSTRUCTION SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE STANDARD ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".

CEMENT AND CONCRETE SHALL CONFORM TO IBC. ADMIXTURES SHALL BE APPROVED BY THE ENGINEER OF RECORD AND SHALL COMPLY WITH ACI 318. THE USE OF WATER SOLUBLE CHLORIDE ION SHALL NOT BE USED.

CONCRETE MIX DESIGNS SHALL MEET THE FOLLOWING REQUIREMENTS:

28 DAY MAX. MAX. AIR SPECIAL LOCATION STRENGTH W/C SLUMP ENTAINMENT INSPECTION AND f'c (PSI) RATIO (INCHES) (PERCENT) REQUIRED APPLICATION

NO FOOTINGS/STEM WALLS

ONE COMPRESSION TEST MINIMUM SHALL BE COMPILED FOR EVERY 150 CUBIC YARDS OR 5000 SQUARE FEET OF SURFACE AREA FOR EACH MIX DESIGN PLACED EACH DAY. A TEST SHALL BE THE AVERAGE STRENGTH OF TWO CYLINDERS MADE FROM THE SAME SAMPLE AND TESTED AT THE SPECIFIED AGE. ADDITIONAL CYLINDERS MAY BE MADE FOR INFORMATION REGARDING POST TENSIONING, FORM REMOVAL, STRENGTH DEVELOPMENT, OR OTHER PURPOSES. CONCRETE IS ACCEPTABLE IF:

(1) NO TEST FALLS 500 PSI BELOW THE SPECIFIED STRENGTH (2) THE AVERAGE OF ALL SETS OF 3 CONSECUTIVE TESTS DOES NOT FALL

BELOW THE SPECIFIED STRENGTH.

CONCRETE NOT MEETING THE ABOVE CRITERIA IS SUBJECT TO FURTHER TESTING AT NO ADDITIONAL EXPENSE TO THE OWNER.

3002 REINFORCING STEEL

REINFORCING STEEL DETAILING, FABRICATION, AND PLACEMENT SHALL BE PER ACI 318. REINFORCING STEEL SHALL BE ASTM A-615 DEFORMED BARS GRADE 40 (fy=40 KSI) FOR #3 BARS ONLY AND ASTM A-615 DEFORMED BARS GRADE 60 (fy=60 KSI) FOR #4 BARS AND LARGER. REINFORCING STEEL AT ALL WALLS, SLABS, AND FOOTÏNGS SHALL BE CONTINUOUS AROUND CORNERS ELSE CORNER BARS SHALL BE PROVIDED. COVER REQUIREMENTS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:

CONCRETE CAST AGAINST EARTH ALL BAR SIZES FORMED SURFACE EXPOSED TO EARTH OR WEATHER #5 AND SMALLER

REINFORCING STEEL SHALL BE ACCURATELY PLACED AND ADEQUATELY SECURED IN PLACE PRIOR TO CONCRETE PLACEMENT. REINFORCING STEEL SHALL NOT BE FIELD BENT EXCEPT AS NOTED IN THE DESIGN DRAWINGS.

03162: ADHESIVE ANCHORS IN CONCRETE

ALL ADHESIVE ANCHORS SHALL BE ICC APPROVED AND INSTALLED PER ICC EVALUATION REPORT REQUIREMENTS. BOLT SPACING AND EMBEDMENTS SHALL BE AS DESIGNATED ON THE DRAWINGS TYPICAL, UNLESS NOTED OTHERWISE. ALL EXPANSION BOLTS SHALL BE INSTALLED WITH CONTINUOUS INSPECTION.

ADHESIVE ANCHORS IN CONCRETE SHALL BE THE FOLLOWING TYPES OR A PREAPPROVED EQUAL;

SIMPSON SET-XP (ICC ESR-2508) MINIMUM EFFECTIVE EMBEDMENT U.N.O. BOLT SIZE 1/2" DIA. OR #4 REBAR 5/8" DIA. OR #5 REBAR

06071: PRESERVATIVE TREATED WOOD PRODUCTS

ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESERVATIVE TREATED U.N.O. PER PLAN. PRESERVATIVE TREATMENT SHALL BE PER AMERICAN WOOD PRESERVERS' ASSOCIATION (AWPA) SPECIFICATION "PRESERVATIVE TREATMENT BY PRESSURE PROCESS"

ALL FASTENERS (NAILS, BOLTS, PLATES, HANGERS, ETC.) IN CONTACT WITH TREATED LUMBER SHALL BE CORROSION RESISTANT G-185 HOT DIPPED GALVANIZED PER ASTM A 153 OR STAINLESS STEEL TYPE 304 OR 316.

ALL FIELD CUTS, NOTCHES AND DRILLED HOLES OF PRESSURE-TREATED WOOD SHALL BE TREATED IN THE FIELD IN ACCORDANCE WITH AWPA M4.

06100: ROUGH FRAMING

SAWN LUMBER SHALL CONFORM TO WEST COAST LUMBER INSPECTION BUREAU (WCLIB) "GRADING AND DRESSING RULES" NO. 17 LATEST EDITION. SAWN LUMBER SHALL BE S4S AND SURFACED DRIED, 19 PERCENT MAXIMUM MOISTURE CONTENT. PROTECT LUMBER FROM WEATHER AND PROVIDE FURTHER DRYING OF ASSEMBLED FRAMING TO MINIMIZE WOOD SHRINKAGE POTENTIAL. ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESERVATIVE TREATED U.N.O. PER PLAN. LUMBER SPECIES, GRADE, AND PROPERTIES FOR EACH USE/LOCATION SHALL BE AS FOLLOWS U.N.O. PER PLAN/SCHEDULE:

| , | | | | Fb | F٧ | Fcp | Fc | Ε |
|----------------|-------------------|-----|----|-------|-------|-----|------|-------|
| USE/LOCATION | | GRA | DE | (PSI) | (PSI) | • | | (PSI) |
| WALL STUDS/BLO | OCK I NG | | | | | | | |
| 2X, 3X | HEM-FIR | STU | D | 675 | 150 | 405 | 800 | 1.2E6 |
| 4" WIDE | | | | | | | | |
| 2X, 3X | HEM-FIR | NO. | 2 | 850 | 150 | 405 | 1300 | 1.3E6 |
| 6" & WIDER | | | | | | | | |
| WALL PLATES | | | | | | | | |
| 2X4, 3X4 | HEM-FIR | STU | D | 675 | 150 | 405 | 800 | 1.2E6 |
| 2X6, 3X6 | HEM-FIR | NO. | 2 | 850 | 150 | 405 | 1300 | 1.3E6 |
| JOI STS | | | | | | | | |
| 2X, 3X | HEM—FIR | NO. | 2 | 850 | 150 | 405 | 1300 | 1.3E6 |
| BEAMS AND POST | | | | | | | | |
| 4X | DOUGLAS FIR-LARCH | | | 900 | 180 | 625 | 1350 | 1.6E6 |
| 6X | DOUGLAS FIR-LARCH | NO. | 1 | 1200 | 170 | 625 | 1000 | 1.6E6 |
| | | | | | | | | |

06102: FRAMING NOTES FRAMING CONNECTORS, ACCESSORIES, AND FASTENERS AS NOTED IN THE PLANS AND DETAILS ARE AS MANUFACTURED BY SIMPSON STRONG-TIE. EQUIVALENT HARDWARE MAY BE USED WHEN APPROVED BY ENGINEER OF RECORD. INSTALL ALL HARDWARE PER MANUFACTURERS' SPECIFICATIONS. WHERE STRAPS CONNECT TWO MEMBERS TOGETHER PLACE HALF OF THE REQUIRED FASTENERS INTO EACH MEMBER. PROVIDE SOLID BLOCKING AT ALL BEARING POINTS. SEE SECTION 06071 FOR FASTENER REQUIREMENTS AT TREATED LUMBER. TYPICAL NAILING NOT SHOWN

NAILS SHALL BE COMMON U.N.O. COMMON NAIL DIMENSION ARE AS FOLLOWS:

PER PLAN, DETAIL, OR SCHEDULE SHALL COMFORM TO FASTENING SCHEDULE PER

NAIL SIZE DIAMETER LENGTH 0.131" 2.5" 0.148" 3.0"

OTHERWISE NOTED ON THE PLANS.

0.148" 3.25"

0.162" 3.5"

IBC TABLE 2304.9.1.

12d

UNLESS NOTED OTHERWISE PER SHEARWALL SCHEDULE OR PLANS. ANCHOR BOLTS AT SILL PLATES SHALL BE 1/2" DIAMETER WITH 7" MINIMUM EMBEDMENT INTO CONCRETE AND SHALL BE SPACED NOT MORE THAN 6 FEET APART. THERE SHALL BE A MINIMUM OF TWO BOLTS PER SILL PIECE WITH ONE BOLT LOCATED NOT MORE THAN 12" NOR LESS THAN 4.5" FROM EACH END OF THE PIECE. A 2"X2"X3/16" PLATE WASHER SHALL BE PROVIDED FOR ALL ANCHOR BOLTS (DO NOT COUNTERSINK PLATE WASHERS). VERIFY ANCHOR BOLTS AT EXISTING CONSTRUCTION. PROVIDE NEW ANCHOR BOLTS (SIMPSON TITEN HD'S OR SIMPSON UFP PLATES AT 6'-0" OC

ALL BEAMS SHALL BE SUPPORTED WITH A MINIMUM OF (2)2X'S UNLESS

06103: JOIST AND BEAM HANGERS

JOIST AND BEAM HANGERS AS NOTED IN THE PLANS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE. EQUIVALENT HARDWARE MAY BE USED WITH PRIOR APPROVAL BY ENGINEER OF RECORD. JOIST AND BEAM HANGERS SHALL BE INSTALLED PER MANUFACTURERS' SPECIFICATIONS AND SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE PER PLANS OR DETAILS:

MEMBER SIZE

"U" SERIES TO MATCH LUMBER SIZE SAWN LUMBER JOISTS I -JOI STS "ITS" SERIES TO MATCH JOIST SIZE

3.125" WIDE GLULAM BEAM HGUS3.25/10 3.5" WIDE BEAM HGUS412 5.125" WIDE GLULAM BEAM HGUS5.25/10 5.5" WIDE GLULAM BEAM HGUS5.5/10

06160: WOOD SHEATHING

STRUCTURAL WOOD SHEATHING PANELS SHALL HAVE APA GRADE TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION. WOOD SHEATHING PANELS SHALL BE C-D INT APA WITH EXTERIOR GLUE (CDX). ORIENTED STRAND BOARD (OSB) PANELS SHALL BE EXPOSURE 1. PANELS SHALL HAVE THE FOLLOWING THICKNESS, SPAN RATING, AND FASTENING UNLESS NOTED OTHERWISE PER PLAN:

FIELD NAILS NAILS ROOF: 7/16" 40/20 C-D APA CDX T&G 8d AT 6" 8d AT 12" FLOOR: 3/4" APA RATED STURD-I-FLOOR OSB 40/20 T&G 10d AT 6" 10d AT 12" SHEARWALL: 7/16" C-D W/EXTERIOR GLUE SEE SCHEDULE SHEET S1.1

ALL ROOF AND FLOOR SHEATHING PANELS SHALL BE INSTALLED FACE GRAIN PERPENDICULAR TO SUPPORTS AND IN A STAGGERED PATTERN UNLESS NOTED OTHERWISE PER PLAN. BLOCKING AT INTERMEDIATE FLOOR AND ROOF SHEATHING JOINTS SHALL NOT BE REQUIRED UNLESS NOTED OTHERWISE PER PLAN. SHEARWALL SHEATHING SHALL BE BLOCKED AT ALL EDGES WITH 2X OR 3X FRAMING PER SHEARWALL SCHEDULE

HOLDOWN & FASTENER SCHEDULE (HF STUDS)

| _ | | OLDOWN & | INOILNE | GOITEDULE | (111 0100 | ,o, |
|---|--------------------|------------------|----------|-----------|-----------------|------------|
| | HARDWARE TYPE | WOOD MEMBER/POST | | FASTENER | ROD DIAMETER | EMBEDMENT |
| | TIFE | 2X4 WALL | 2X6 WALL | | DIAMETER | LMDLDMLINT |
| | STHD14 STHD14RJ | (2) 2X4 | (2) 2X6 | (24) 12d | STRAP | 14" |
| | MST48 | (2) 2X4 | (2) 2X6 | (22) 16d | N.A. | N.A. |
| | | | | | | |

HOLDOWN AND FASTENER SCHEDULE NOTES;

- 1. HOLDOWNS SHALL BE AS MANUFACTURED BY THE SIMPSON
- STRONG-TIE COMPANY.

WITH HAND WRENCH.

- 2. 16d = 0.162" DIA. X 3 1/2" LONG. 3. FILL ALL HOLES UNLESS NOTED OTHERWISE..
- 4. SCREWS SHALL BE SDS 1/4" DIA. X 2 1/2" AS MANUFACTURED BY
- SIMPSON STRONG-TIE COMPANY. 5. HOLDOWN ANCHORS SHALL BE SECURED IN PLACE PRIOR TO PLACING
- 6. ANCHOR BOLT NUT SHALL BE FINGER-TIGHT PLUS 1/3 1/2" TURN
- 7. HDU HOLDOWNS SHALL BE INSTALLED CENTERED ALONG THE WIDTH OF THE ATTACHED POST.
- 8. ANCHOR BOLT HOLDOWNS SHALL BE ASTM A307 OR A36 STEEL.
- ANCHOR HEAD REQUIRES NUT/WASHER NUT. 9. POST INSTALLED ANCHOR SHALL USE SIMPSON SET XP OR EQUAL.

USE EMBEDMENTS INDICATED IN TABLE.

SHEARWALL SCHEDULE - 7/16' APA RATED SHEATHING W/ HEM-FIR STUDS AND HEM-FIR PLATES

| WALL | | PANEL | FIELD | | M PLATE | RIM OR BLOCKING TO TOP PLATE CONN. | | FRAMING | FOUNDATION | ANCHOR BOLT | |
|------|------------------------|-----------------|----------|------|-----------------|------------------------------------|--------------------|--------------------------------|------------|----------------------------------|--|
| TYPE | SHEATHING | EDGE NAILING | NAILING | ROWS | LING SPACING | 0.148"x3.25" TOENAIL | LTP4 OR A35 OPTION | AT ADJOINING PANEL EDGES | SILL PLATE | SPACING 5/8" DIA. 7" EMBED | |
| P6 | 7/16" SHT. ONE SIDE | 6" O.C. | 12" O.C. | (1) | 4" O.C. | N/A | 24" O.C. | 2x | 2x | 48" O.C. | |
| P4 | 7/16" SHT. ONE SIDE | 4" O.C. | 12" O.C. | (2) | 6" O.C. | N/A | 16" O.C. | (2)2x OR 3x | 2x | 32" O.C. | |
| Р3 | 7/16" SHT. ONE SIDE | 3" O.C. | 12" O.C. | (2) | 4" O.C. | N/A | 12" O.C. | (2)2x OR 3x | 2x | 24" O.C. | |
| P2 | 7/16" SHT. ONE SIDE | 2" O.C. | 12" O.C. | (3) | 6" O.C. | N/A | 10" O.C. | (2)2x OR 3x | 2x | 18" O.C. | |

SHEARWALL SCHEDULE NOTES:

SHEARWALL MARKS EXCEPT "P6".

1. STUDS SHALL NOT BE SPACED MORE THAN 16" O.C..

2. SHEATHING PANELS MAY BE INSTALLED EITHER HORIZONTALLY OR VERTICALLY WITH ALL PANEL EDGES BACKED/BLOCKED WITH 2" NOMINAL OR WIDER FRAMING. SEE NOTE 5. 5. FRAMING MEMBERS RECEIVING EDGE NAILING FROM ABUTTING PANELS SHALL NOT BE LESS THAN 3" NOMINAL AND NAILS SHALL BE STAGGERED FOR ALL

7. NAILS FOR PLYWOOD AND OSB PANEL EDGE AND FIELD NAILING SHALL BE 8d (0.131" X 2 1/4"). 8. NAILS FOR BOTTOM PLATE FRAMING SHALL BE 12d COMMON (0.148" X 3.25"). 9. ANCHOR BOLTS SHALL BE GALVANIZED 5/8" DIAMETER A-307 AND SHALL BE SECURED IN PLACE PRIOR TO CONCRETE POUR. WET STICKING OF ANCHOR BOLTS IS NOT ALLOWED.

10. GALVANIZED PLATE WASHERS PER STRUCTURAL NOTES ARE REQUIRED AT EACH ANCHOR BOLT - SEE 8 THIS SHEET FOR PLACEMENT REQUIREMENTS.

RECESSING PLATE WASHERS IN PLATES IS NOT ALLOWED.

11. LTP4 FRAMING PLATES SHALL BE INSTALLED WITH 12-8d X 1 1/2" (0.131" X 2 1/2") NAILS. RE: DETAILS 1, 2, & 3. 12. A35 FRAMING ANGLES SHALL BE INSTALLED WITH 12-8d X 1 1/2" (0.131" X 1 1/2") NAILS. RE: DETAILS 1, 2, & 3. 13. ALL NAILS INTO PRESSURE TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED CONFORMING TO ASTM 153 OR STAINLESS STEEL

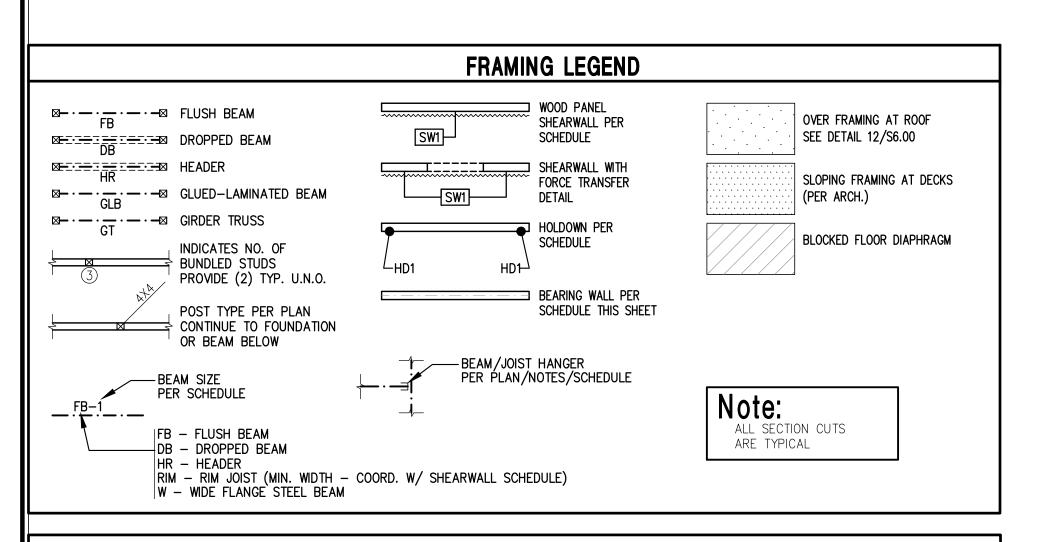
14. WHERE BOTTOM PLATE NAILING SPECIFIES A SPACING OF 4 INCHES OR LESS NAILS SHALL BE INSTALLED IN TWO ROWS OFFSET 1/2 INCH AND STAGGERED.

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FRAMING NOTES

1. ROOF FRAMING SHALL BE PREENGINEERED TRUSSES AT 24' O.C. SEE DETAILS ON S6.0 FOR TRUSS TO WALL CONNECTIONS. SEE ARCHITECTURAL DRAWINGS FOR ALL ROOF PITCHES AND CEILING VAULTS.

2. FLOOR FRAMING SHALL BE 2X10'S AT 16" O.C. LAP JOISTS 4" ATOP WALLS. SECURE JOIST TO TOP PLATES WITH (2) 8d NAILS. JOISTS UNDER AND PARALLEL TO BEARING AND SHEAR WALLS SHALL BE DOUBLE JOISTS U.N.O. BLOCKING AT BEARING AND SHEAR WALLS SHALL BE DOUBLED U.N.O.

3. WALLS INDICATED ARE BELOW THE FRAMING LEVEL. SEE BEARING WALL SCHEDULE THIS SHEET.

4. PLUMBING, MECHANICAL, AND ELECTRICAL SYSTEMS SHALL BE DESIGNED AND BUILT TO ACCOMMODATE 1/4" PER FLOOR WOOD SHRINKAGE (ACCUMULATIVE).

5. FRAMING MEMBERS AND SHEATHING SHALL BE PER STRUCTURAL NOTES ON SHEET S1.0.

6. HANGERS INDICATED ARE AS MANUFACTURED BY SIMPSON STRONG—TIE.

10. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS.

11. BUNDLED STUDS FROM THIS LEVEL SHALL BE CONTINUED DOWN TO FOUNDATION OR SUPPORTING BEAM.

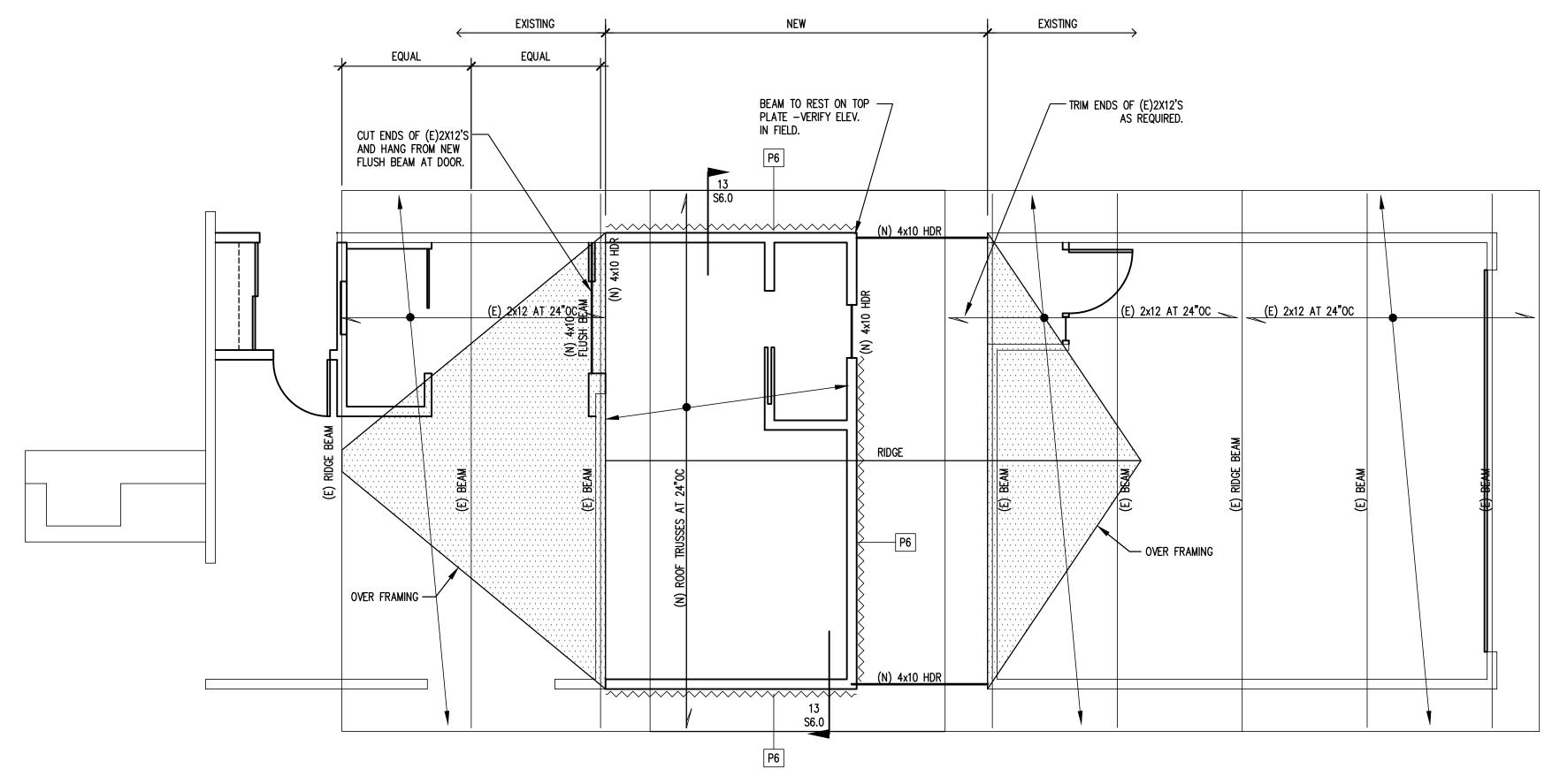
12. ALL BEAMS AND HEADERS SHALL HAVE A MINIMUM OF (1) KING STUD AT EACH END FOR BRACING U.N.O.

FOUNDATION NOTES 1. ALL FOOTING SHALL BEAR ON COMPETENT NATIVE MATERIAL. 2. CENTER INTERIOR FOOTINGS ON WALLS OR COLUMNS TYPICAL U.N.O. 3. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. 4. SEE ARCHITECTURAL PLANS FOR WALL LOCATIONS. 5. SEE DETAIL FOR STEPPED FOOTING DETAIL. 6. SEE ROOF/ FLOOR FRAMING PLAN SHEETS FOR WOOD FRAMING LEGEND, NOTES, AND SCHEDULES. 7. FOOTING DRAINS ARE TYPICALLY AT PERIMETER OF FOUNDATIONS. FOOTING DRAINS, DOWNSPOUTS AND THEIR CONNECTIONS BY OTHERS. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION. 8. ALL TOP OF CONCRETE AND TOP OF FOOTING ELEVATIONS TO BE VERIFIED PRIOR TO CONSTRUCTION. FOUNDATION LEGEND F1 SEE FOOTING TYPE THIS SHEET SHEARWALL PER SCHEDULE (-2'-0") TOP OF FOOTING ELEVATION SHEARWALL WITH FORCE TRANSFER TOP OF CONCRETE ELEVATION S.J. SHRINKAGE CONTROL JOINT PER DETAIL 4/S6.0 SCHEDULE: REF. FRAMING PLANS C.J. CONSTRUCTION JOINT PER DETAIL 5/S6.0 S STEP FOOTING PER DETAIL 6/S6.0

Note:

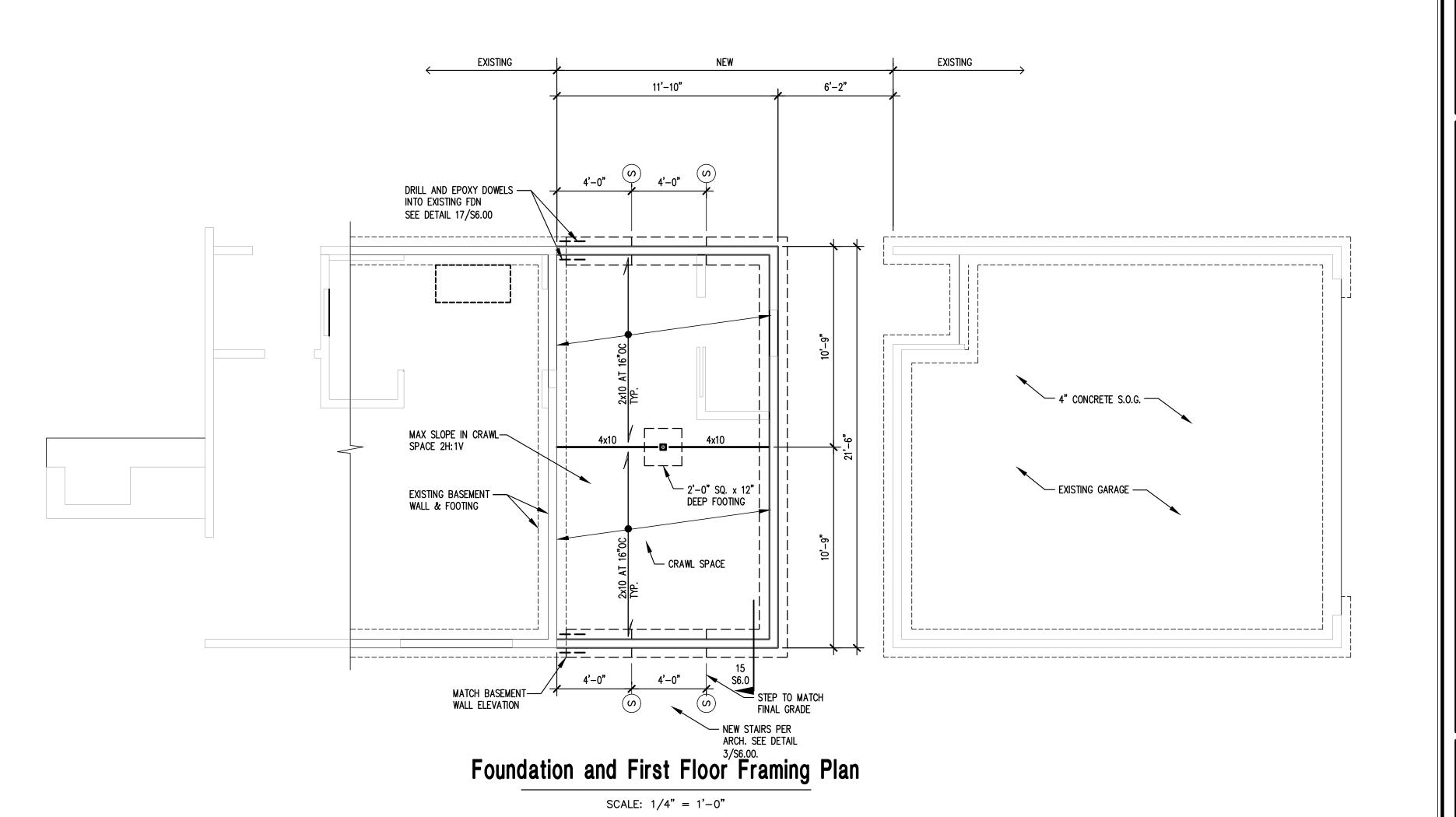
ALL SECTION CUTS

ARE TYPICAL



Roof Framing Plan

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

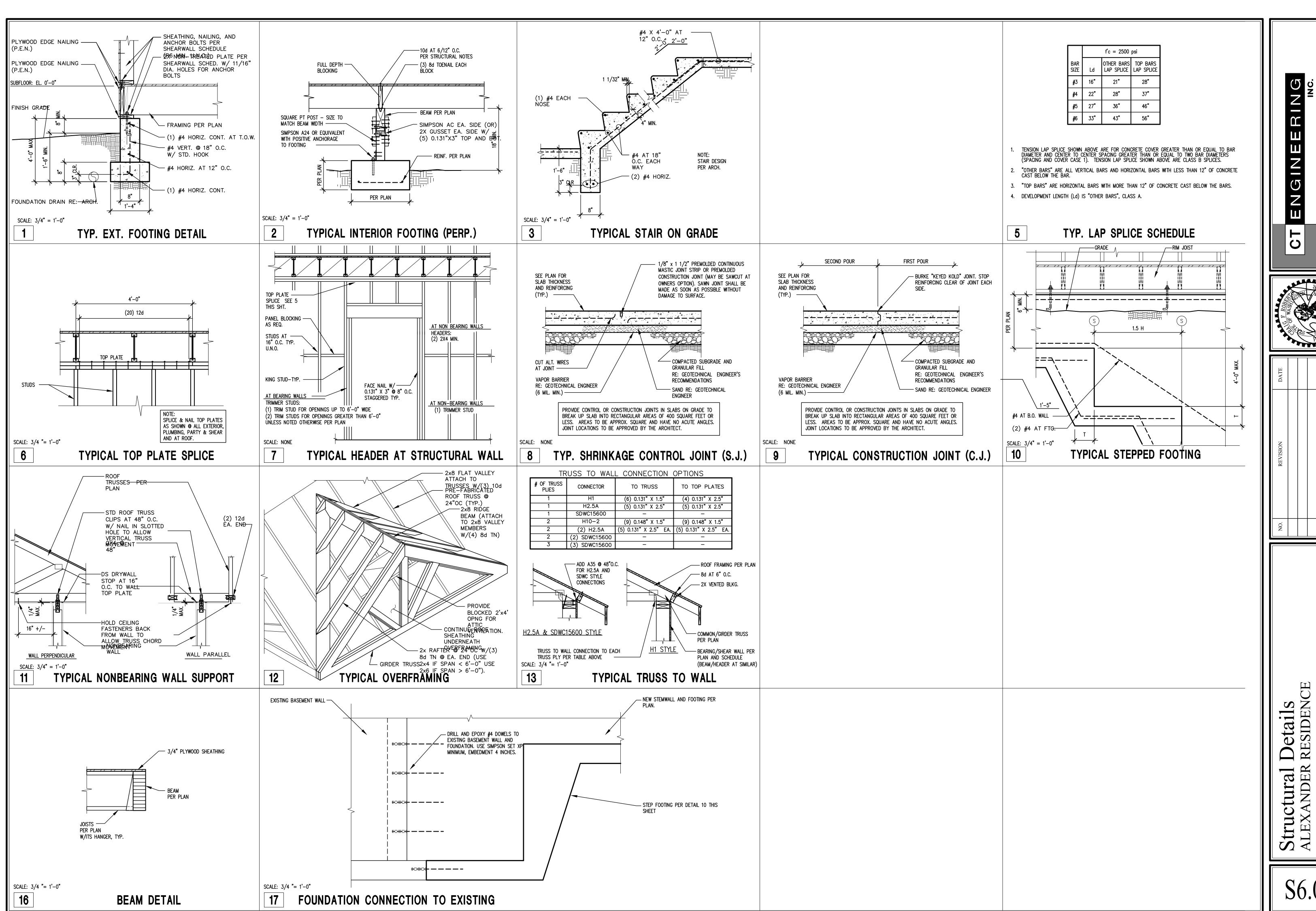


RING

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Plans

raming



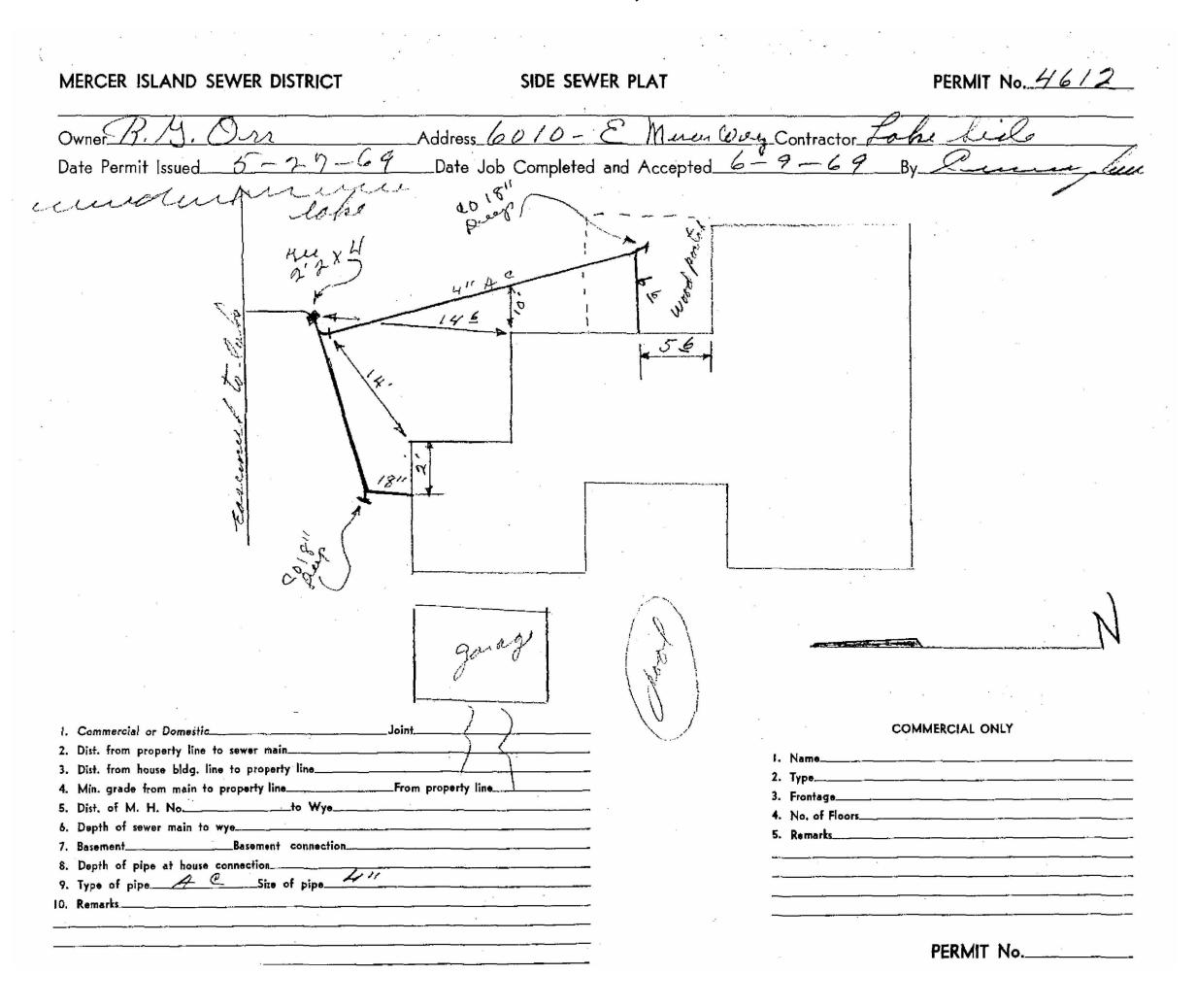


VICINITY MAP (NTS)

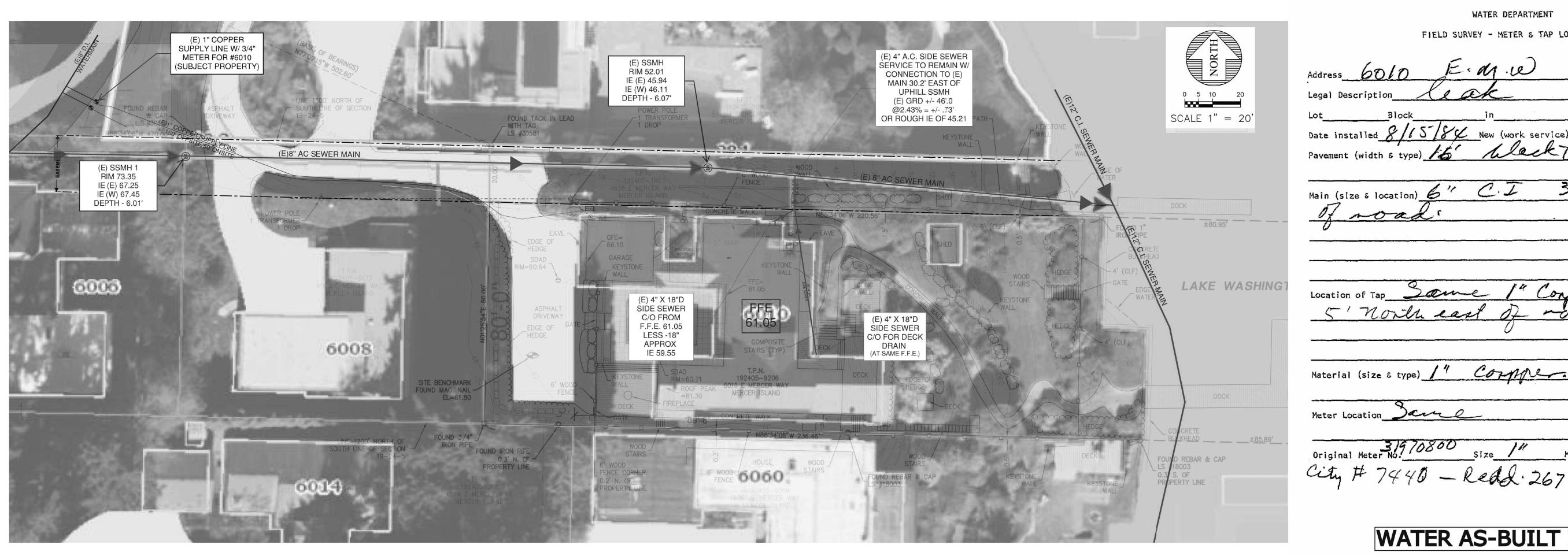
WATER NOTES:

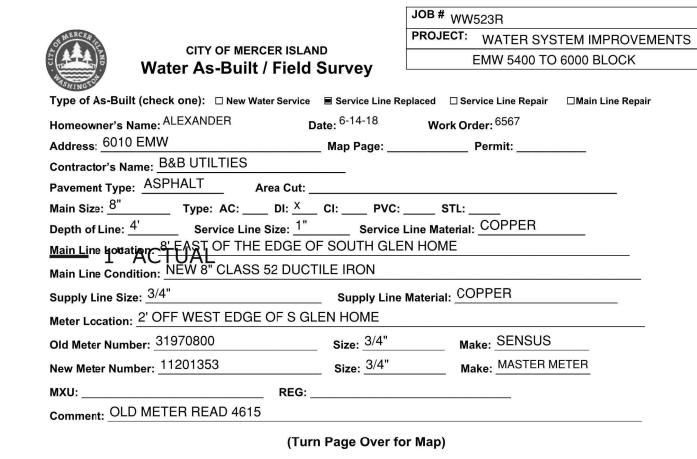
WATER INFO PROVIDED BY AND AS RECORDED BY CITY OF MERCER

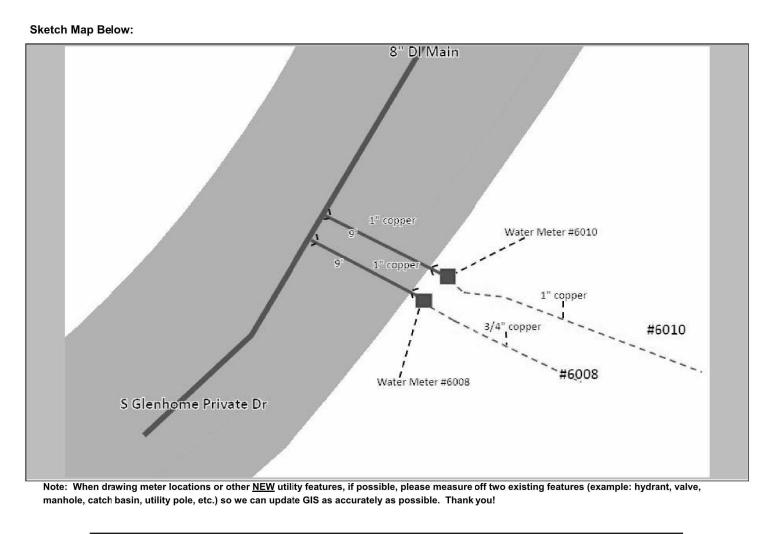
A PORTION OF THE SE 1/4 OF THE SE 1/4 OF SEC. 19, TWP 24 N., RNG. 5 E., W.M. KING COUNTY, STATE OF WASHINGTON



SEWER AS-BUILT INFO 1969







WATER AS-BUILT INFO 2018

CITY OF MERCER ISLAND FIELD SURVEY - METER & TAP LOCATION Date installed 8/15/84 New (work service) Order No. 'north east

MERCER ISLAND

CITY OF

Chris@developingsvcs.com

206.280.3278

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data, presented herein

Submittal set

TITLE BLOCK / DESCRIPTION

3/25/23

(E) UTILITIES

C0.1

Material (size & type) /" Compres 26'

WATER AS-BUILT INFO 1984

A PORTION OF THE SE 1/4 OF THE SE 1/4 OF SEC. 19, TWP 24 N., RNG. 5 E., W.M. KING COUNTY, STATE OF WASHINGTON

(E) SSMH

RIM 52.01

SIDE SEWER CONNECTION TO LAKE LINE & BACKFLOW VALVE REQUIRMENTS

As our Side Sewer is NOT a direct connection to the Lake Line, CoMI details S23-S26 are not applicable. Per CoMI/Kevin Nguyen - as long as the upstream manhole (from side sewer) is lower than the lowest fixture within the SFR, existing conditions are suitable and a backflow dévice is not required.

Upstream manhole info:

Rim52.01 IE (E)45.94 IE (W) 46.11

Existing SFR / Side Sewer:

RIM=80.65 / 8" CONC. (E,NE)

N88°34'06"W 470.0050

RIM 73.35 IE (E) 67.25

IE (W) 67 45 DEPTH - 6.01

"CALL UNDERGROUND LOCATE AT

1-800-424-5555 BEFORE YOU DIG"

(E) 1" COPPER SUPPLY LINE W/ 3/4" METER FOR #6010

(SUBJECT PROPERTY

ASPHALT DRIVEWAY

19-24-5

(E)8" AC SEWER MAIN

192405-917

6008 E MERCER WAY

MERCER ISLAND

LINE 1200' NORTH OF SOUTH LINE OF SECTION -19-24-5

SS Tap IE at public main C/O IE at entrance to SFR SFR main finish floor elevation

+/- 45.21 59.55 (18" below F.F./GRADE)

61.05 (+/- 15' above upstream MH)

With the line entering the SFR at +/-59.55 in elevation, and no connections exist below this POC into the SFR, no backflow valves are required for the private sewer portion of this residence.

RIM 52.01

IE (E) 45.94

IE (W) 46.11

FOUND TACK IN LEAD

DRIVEWAY

EDGE OF HEDGE

FOUND IRON PIPE 0.3' N. OF -

6014 E MERCER WAY

MERCER ISLAND

PROPERTY LINE

FOUND MAG. NAIL -EL=61.80

DEPTH - 6.07'

POWER POLE
- 1 TRANSFORMER

SIDE SEWER

C/O FROM

F.F.E. 61.05

LESS -18"

APPROX IE 59.55

DECK

6' WOOD FENCE CORNER

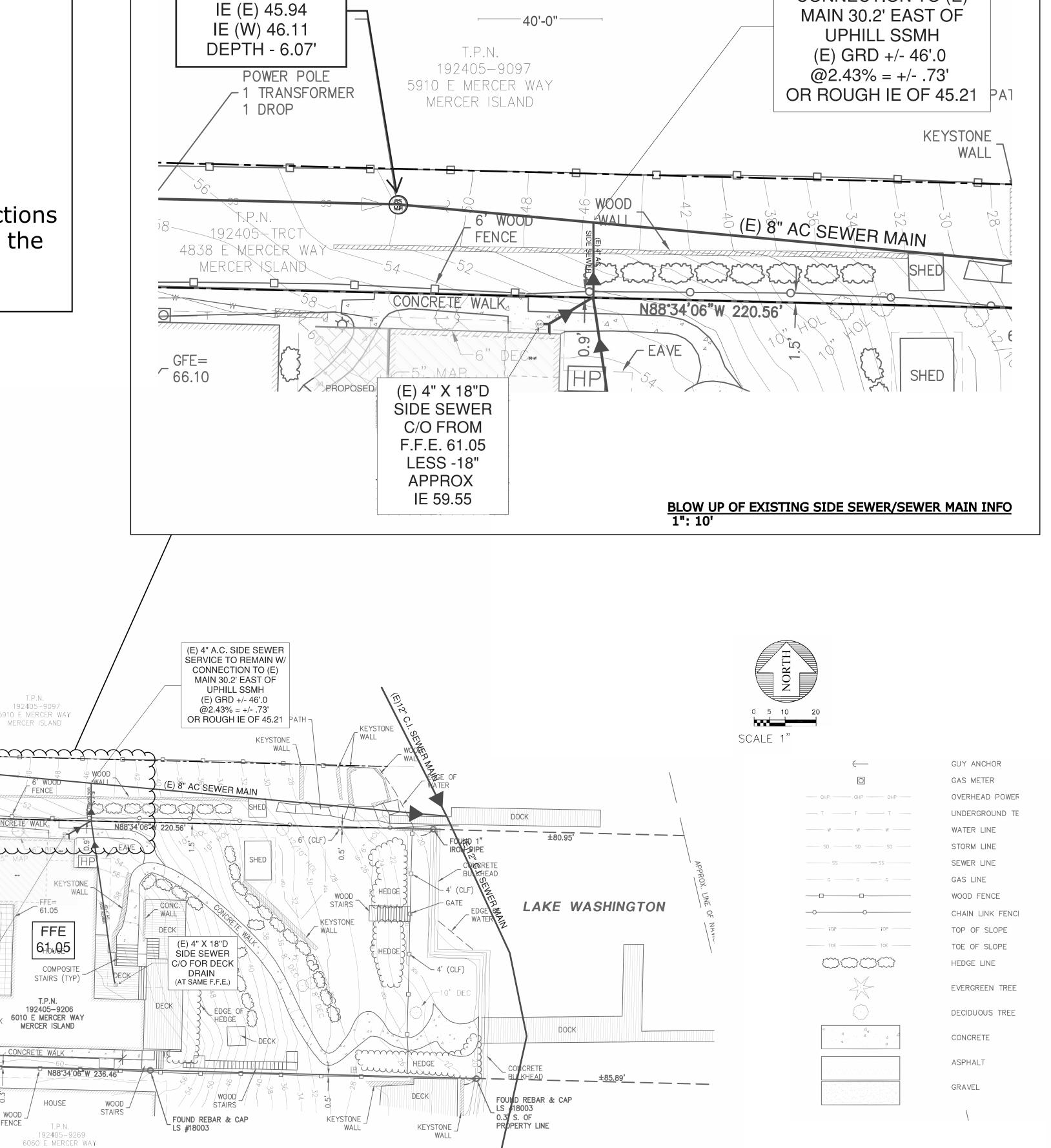
0.2' N. OF PROPERTY LINE

SDAD RIM=60.71

ROOF PEAK

6' WOOD_

192405-9097





(E) 4" A.C. SIDE SEWER

SERVICE TO REMAIN W/

CONNECTION TO (E)

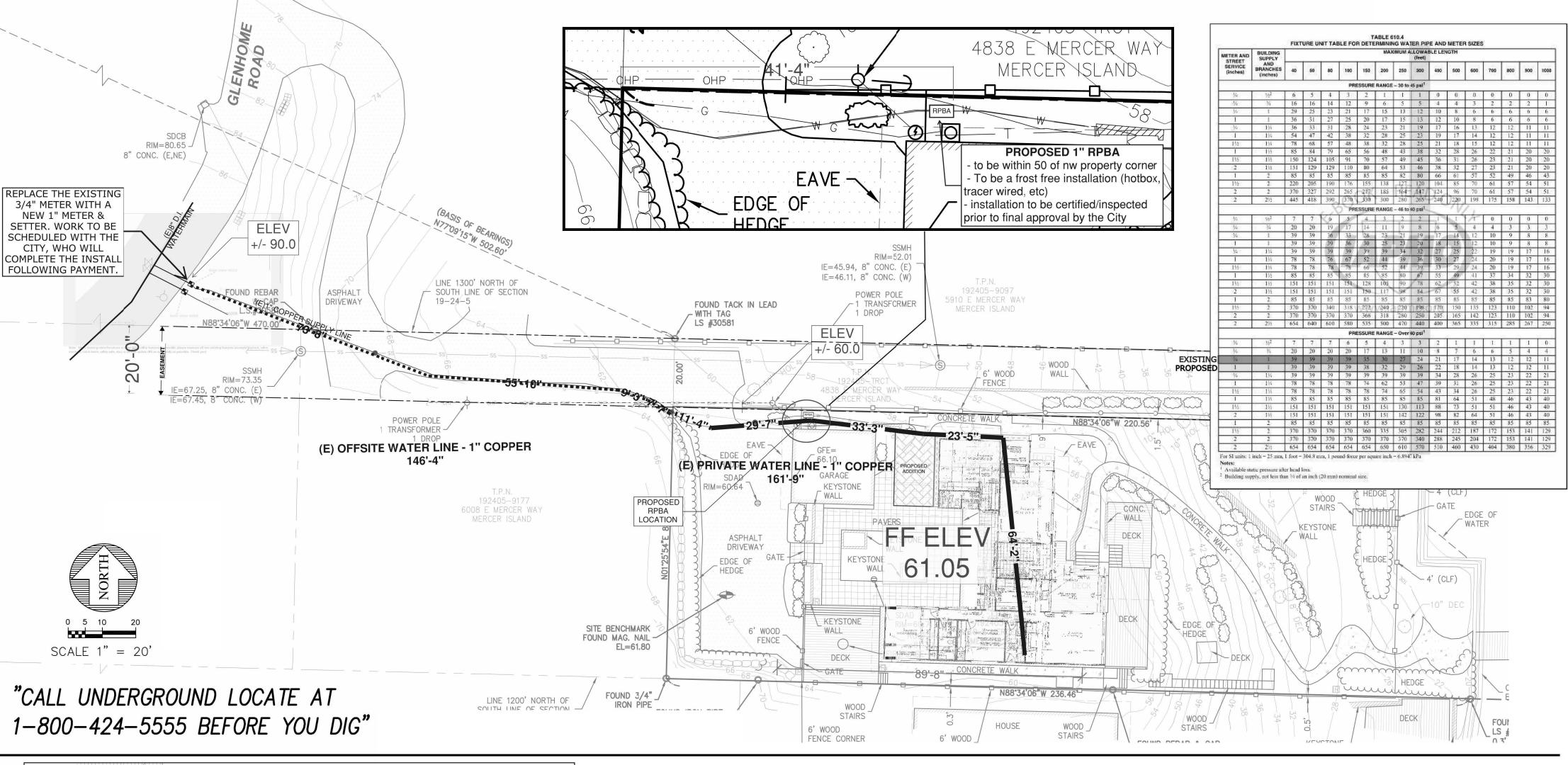
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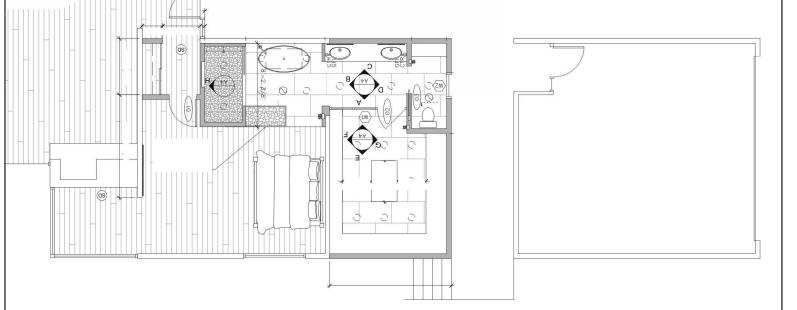
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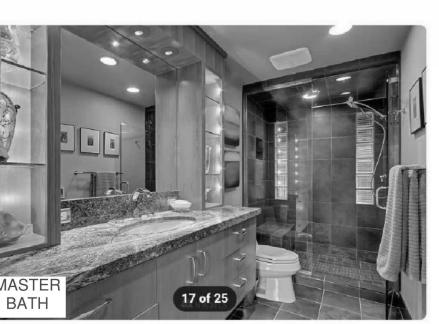
CITY OF **MERCER ISLAND**

(E) SEWER



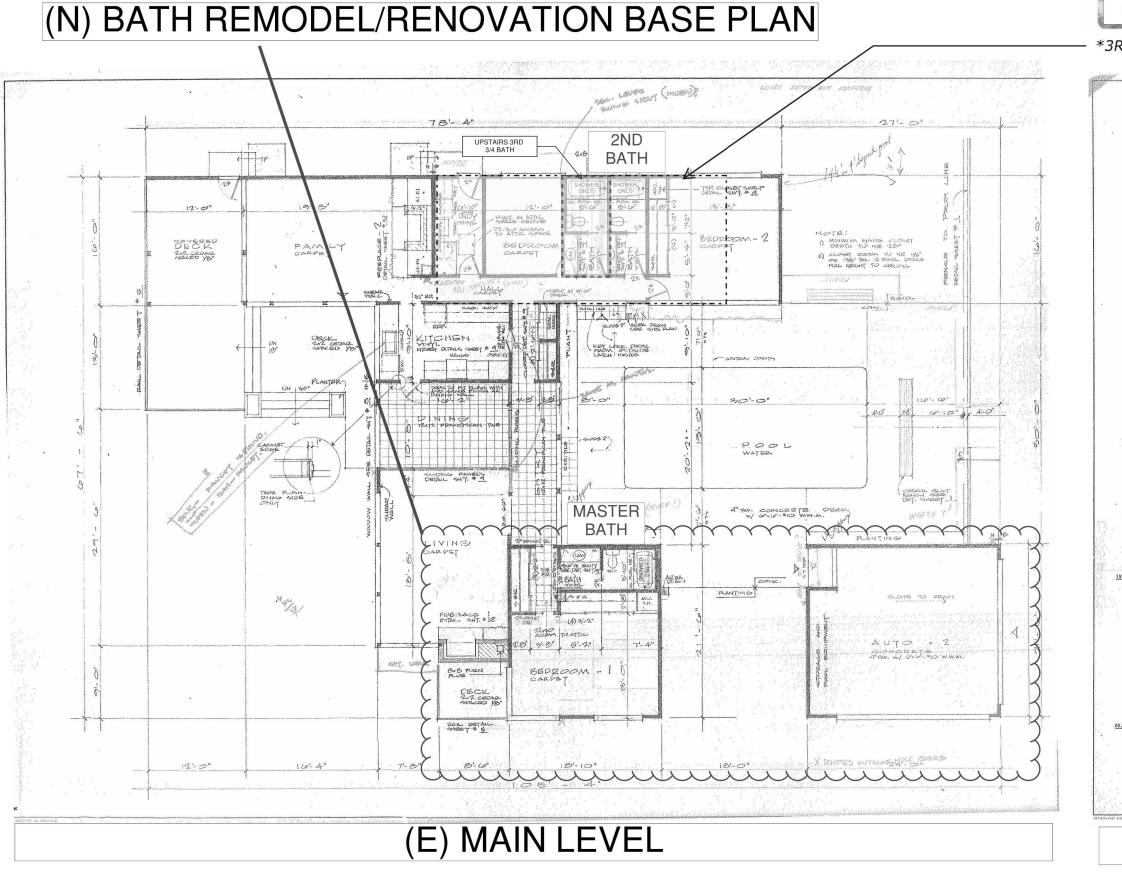


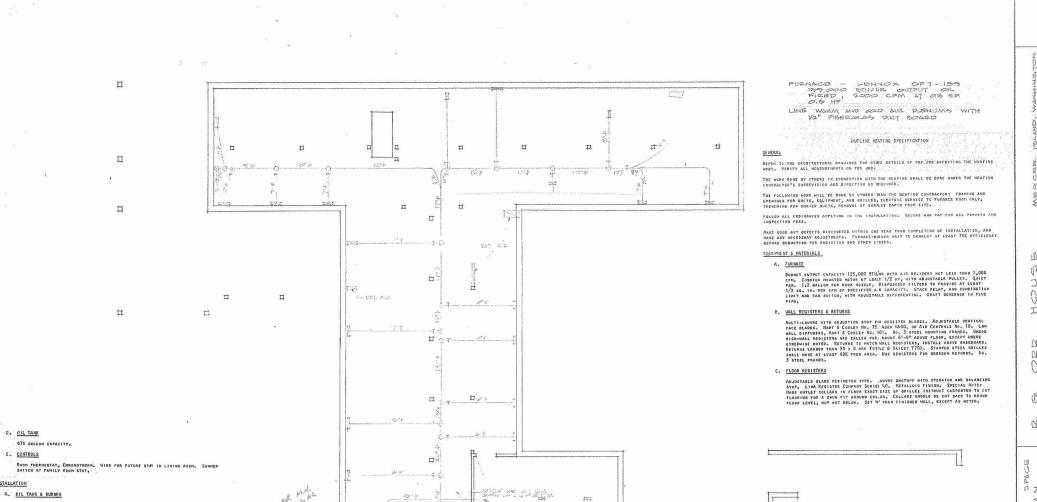




N.T.S. FOR REF ONLY

*3RD BATH IS IN ADDITION ABOVE BATH 2 AND WITH SAME LAYOUT/SHOWER SETUP





(E) BASEMENT LEVEL - UNOCCUPIED/STORAGE

WATER SUPPLY FIXTURE UNITS
PER UPC TABLE C 303.2

ALEXANDER RESIDENCE-RENOVATION/ADDITION 6010 E MERCER WAY - MERCER ISLAND, WA

ANALYSIS BY
D.R. YAEGER PLUMBING LLC
LIC# DRYAERY783NA
509-710-6969

TABLE C 303.2
WATER SUPPLY FIXTURE UNIT (WSFU) FOR BATHROOM GROUPS^{1, 2}

| | PRIVATE USE GRO | BATHROOM DUP | SERVING 3 OR MORE PRIVATE USE BATHROOM GROUPS | | |
|---|--------------------|------------------|--|---------------|--|
| | COLD | HOT ³ | COLD | НОТ | |
| Bathroom Groups Having up to 1.6 (| GPF Gravity-Tank | Water Closets | | | |
| Half-Bath or Powder Room | 3.5 | 0.8 | 2.5 | 0.5 | |
| 1 Bathroom Group | 5.0 | 2.5 | 3.5 | 1.8 | |
| 1 <mark>1</mark> /₂ Bathrooms | 6.0 | 2.5 | _ | | |
| 2 Bathrooms | 7.0 | 3.5 | _ | _ | |
| 2 ¹ / ₂ Bathrooms | 8.0 | 3.6 | = | _ | |
| 3 Bathrooms | 9.0 | 4.5 | 3 | 3 | |
| Each Additional 🕼 Bath | 0.5 | 0.1 | _ | 7 | |
| Each Additional Bathroom Group | 1.0 | 0.5 | _ | | |
| Bathroom Groups Having up to 1.6 (| GPF Pressure-Ta | nk Water Closet | S | • | |
| Half-Bath or Powder Room | 3.5 | 0.8 | 2.5 | 0.5 | |
| 1 Bathroom Group | 5.0 | 2.5 | 3.5 | 1.8 | |
| 1 <mark>1</mark> 1/2 Bathrooms | 6.0 | 2.5 | _ | _ | |
| 2 Bathrooms | 7.0 | 3.5 | _ | n | |
| 2 <mark>1</mark> / ₂ Bathrooms | 8.0 | 3.6 | _ | · | |
| 3 Bathrooms | 9.0 | 4.5 |) | : | |
| Each Additional 🕼 Bath | 0.5 | 0.1 | _ | _ | |
| Each Additional Bathroom Group | 1.0 | 0.5 | _ | _ | |
| Bathroom Group (1.6 GPF Flushometer Value) | 6.0 | 2.5 | 4.0 | 1.7 | |
| Kitchen Group (Sink and Dishwasher) | 2.0 | 2.0 | 1.5 | 1.5 | |
| Laundry Group (Sink and Clothes Washer) | 5.0 | 5.0 | 3.0 | 3.0 | |
| Count | | | 13.5 | 14.5 | |
| Combined Total | | | 28.0 | | |

A bathroom group, for this table, consists of one water closet, up to two lavatories, and cither one bathtub or one shower.

A half-bath or powder room, for this table, consists of one water closet and one lavatory.

Multi-unit dwellings with individual water heaters use the same WSFU as for individual dwellings.

3/24/2023 SIGNATURE DATE

DAN YAEGER - OWNER NAME/TITLE

CITY OF MERCER ISLAND

COMMUNITY PLANNING & DEVELOPMENT 9611 SE 36TH STREET | MERCER ISLAND, WA 98040

9611 SE 36TH STREET | MERCER ISLAND, WA 98040 PHONE: 206.275.7605 | <u>www.mercergov.org</u>

Inspection Requests: Online: www.mybuildingpermit.com VM: 206.275.7730

Residential Water Meter Sizing Worksheet

| Site Address: 6010 E Mercer Way Mercer Island, WA 98040 | | | | Water Permit # | | |
|---|---|----------|-------------------|------------------|-------------|--|
| | Number of F | ixtures | | | | |
| Fixture Type | New (For replacement, list as existing) | Existing | Total Fixtures | Fixture Units | Total Units | |
| Bathtub or Combination Bath/Shower | | | 0 | x 4 | = 0.00 | |
| 3/4" Bathtub Fill Valve (Soaker Tubs) | 1 | | 1 | x 10 | = 10.00 | |
| Shower (per head) | | 3 | 3 | x 2 | = 6.00 | |
| Sink | 1 | 3 | 4 | x 1 | = 4.00 | |
| Toilet | | 3 | 3 | x 2.5 | = 7.50 | |
| Bidet | | | 0 | x 1 | = 0.00 | |
| Kitchen Sink | | 1 | 1 | x 1.5 | = 1.50 | |
| Dishwasher | | 1 | 1 | x 1.5 | = 1.50 | |
| Bar Sinks & Ice Makers | | | 0 | x 1 | = 0.00 | |
| Clothes Washer | | 1 | 1 | x 4 | = 4.00 | |
| Laundry Sink | | 1 | 1 | x 1.5 | = 1.50 | |
| Drinking Fountain | | | 0 | x 0.5 | = 0.00 | |
| Hose Bibs (first) | | 1 | 1 | x 2.5 | = 2.50 | |
| Each additional | | 2 | 2 | x 1 | = 2.00 | |
| Lawn Sprinkler Irrigation/per head | | | 0 | x 1 | = 0.00 | |
| Other: | | | 0 | x 0 | = 0.00 | |
| *BATH 2&3 REVSED TO 3/4 NOT FL | JLL BATHS (SHOWER O | NLY) | TO | TAL UNITS | = 40.50 | |

| For Official Use Only | | | | | | |
|--|---|--|--|--|--|--|
| REQUIRED SERVICE SIZE | | | | | | |
| Requirements are based per 201 | L5 U.P.C., Chapter 6, Table 610.4 | | | | | |
| Existing Meter Size: | Meter Number: | | | | | |
| Upsize: \square Yes \square No If yes the code requires: | \square 5/8" \square ¾" \square 1" \square 1½" \square 2" \square Larger: | | | | | |
| Map Page & Hydrant #: | Required Supply Line Size: | | | | | |
| Distance from meter to farthest | Required Service Line Size: | | | | | |
| Fixture outlet (in feet): | (from water main to meter) | | | | | |
| Known Static Pressure: (Otherwise use 65lb/in) | *REQUIRED METER SIZE: | | | | | |
| Height difference (in feet): | ** Pressure Reducing valve required: \square Yes \square No | | | | | |
| Minus if Building Higher – x .5 | | | | | | |
| Building Design P.S.I. | | | | | | |
| *AA | | | | | | |

*Meter installation **DEPOSIT** for these items. Additional charges may be incurred for time and materials **Pressure Reducing valve is required if the known water pressure is in excess of 80 psi.

Developing Services
Construction and Real Estate Development Consulting

Chris@developingsvcs.com 206.280.3278

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JURISDICTION / PROJECT # / STAMP

CITY OF MERCER ISLAND

SHEET/TITLE

WATER

C2.0