GENERAL NOTES

- GN-1 GENERAL NOTE
  All work to comply with the following current codes: - 2015 INTERNATIONAL RESIDENTIAL CODE (IRC)
- 2015 SEATTLE RESIDENTIAL CODE (SRC)
- 2015 SEATTLE MECHANICAL CODE (SMC)
- 2015 SEATTLE PLUMBING CODE - 2017 SEATTLE ELECTRICAL CODE
- 2015 SEATTLE FIRE CODE (SFC)
- 2015 WASHINGTON STATE ENERGY CODE
- 2015 SEATTLE FUEL GAS CODE (Natural Gas) - All Seattle Amendments to the above codes

- and all other applicable local codes

GN-2 GENERAL NOTE
All applicable codes, ordinances, and minimal structural requirements take precedence over drawings, notes, and specifications.

GN-3 GENERAL NOTE
Dimensions are to face of stud unless noted otherwise.

GN-4 GENERAL NOTE
Plumbing work and Electrical work is "Design/Build" and executed under separate permit.

#### EARTH WORK

EW-1 VERIFY SOIL CONDITIONS

Geotechnical Engineer shall field verify conformance of actual soil conditions with design assumptions.

EW-2 GEOTECHNICAL ENGINEER SITE VISITS

General contractor is responsible for scheduling site visits by Geotechnical Engineer.

EW-3 BEARING DEPTH

Extend excavation down to undisturbed soil of the specified strength with a minimum depth of 18" below finish grade.

EW-4 COMPACTED FILL
Compacted fill to be well graded and granular with no more than 5% passing a 200 sieve. Place in 8: loose lifts and compact to 95% modified AASHO density at optimum moisture content.

EW-5 BACKFILL

Backfill behind all retaining walls with free draining granular fill and provide for subsurface drainage. (Subject to field review by Geotechnical Engineer)

#### MOISTURE PROTECTION

MP-1 (2015 IRC R317.1)

Provide a minimum clearance of 12" between untreated beams & girders and earth.

Provide a minimum clearance of 18" between untreated joists and earth.

Provide a minimum of 8" clear between untreated framing members in contact concrete or masonry exterior walls and earth.

All wood in contact with concrete or masonry exterior walls to be pressure treated.

All sills and sleepers on concrete slab that is in direct contact with the earth to be pressure treated.

All wood in direct contact with the ground or embedded in concrete shall be pressure

Wood siding, sheathing and framing shall have a clearance of 6" to earth and 2" from concrete steps, porch slabs, patio slabs and similar horizontal surfaces exposed to

MP-2 (2015 IRC R408) CRAWLSPACE VENTILATION

Crawlspace ground surface shall be covered with a Class 1 (0.1 per or less) vapor retarder material.

Provide I of net free yent area for each 1500 of crawlepace area. A vent shall be located within 3 feet of each corner.

Vents shall be protected by 1/8" minimum, 1/4" maximum non-corrosive screen.

MP-3 (2015 IRC R806) ROOF VENTILATION
Provide I sf of net free vent area for each 150 sf of attic area. Venting may be reduced to 1 sf of net free vent area for each 300 sf of attic area provided at least 40% but no more than 50% of the vent area is located in the upper portion of the roof at least 3 feet above the eave.

Vents shall be protected by 1/8" minimum, 1/4" maximum non-corrosive screen or approved soffit vents.

A minimum 1" clear air space shall be provided between the insulation and the roof sheathing through the roof.

# FIRE PROTECTION

All rafter bays to be ventilated.

FP-1 (2015 IRC R302.6) SEPARATION REQUIRED

The garage shall be separated from the residence and its attic by not less than 1/2" thick GWB on the garage side. Garages beneath habitable rooms above by not less than 5/8" thick GWB Type X. Where the separation is a ceiling-floor assembly the structure supporting the assembly shall also be protected by not less than 1/2" thick GWB.

- FP-2 (2015 IRC R302.5) OPENING PROTECTION Openings between garage and residence shall be protected by either
- Solid wood door not less than 1 3/8" thick, or
- Solid or honeycomb metal door not less than 13/8" thick, or - 20-minute fire rated door equipped with self-closing device

FP-3 (2015 IRC R302.5.2) DUCT PENETRATION

Ducts in the garage and ducts penetrating the walls or ceiling separating the dwelling from the garage shall be a minimum of 26 gauge sheet metal and have no openings into the garage.

FP-4 (2015 IRC R302.7) UNDER-STAIR PROTECTION
Enclosed accessible space under stairs shall have walls and under-stair-surfaces protected on the enclosed side by not less than 1/2" thick GWB.

FP-5 (2015 IRC R314.1) SMOKE DETECTION AND NOTIFICATION
All smoke alarms shall be listed in accordance with UL 217 and installed in accordance with the provisions of the IRC and the household fire warning equipment provisions of NFPA

FP-6 (2015 IRC R314.3.4) SMOKE DETECTION LOCATION & INTERCONNECTION Smoke alarms shall be installed in the following locations

-In each sleeping room

-Outside each separate sleeping area in the immediate vicinity of the bedrooms -On each additional story of the building including basements and habitable attics 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.

FP-7 (2015 IRC R314.2.2) SMOKE ALARMS - ALTERATIONS, REPAIRS AND ADDITIONS When alterations, repairs or additions requiring a permit occur, or when one or more sleeping rooms are added or created in existing dwellings, the individual dwelling unit shall be equipped with smoke alarms located as required for new dwellings.

#### FIRE PROTECTION cont'd.

FP-8 (2015 IRC R314.6) SMOKE ALARM POWER SOURCE

FP-10 (2015 IRC R315.1.1) CARBON MONOXIDE ALARM REQUIREMENTS

Smoke alarms shall receive their primary power from the building wiring where such wiring is served from a commercial source and, where primary power is interrupted, shall receive power from a battery. Wiring shall be permanent and without disconnecting switch than those required for overcurrent protections.

FP-9 (2015 IRC R315.1.2) CARBON MONOXIDE ALARMS

For new construction, an approved carbon monoxide alarm shall be installed outside of each separate sleeping area in the immediate vicinity of the bedrooms in dwelling units within which fuel-fired appliances are installed and in dwelling units that have attached

When alterations, repairs or additions requiring a permit occur, or when one or more sleeping rooms are added or created in existing dwellings, the individual dwelling unit shall be equipped with carbon monoxide alarms located as required for new dwellings.

Single station carbon monoxide alarms shall be listed as complying with UL 2034 and shall be installed in accordance with this code and the manufacturer's installation instructions.

FP-11 (2015 IRC R315.5) POWER SOURCE Carbon monoxide alarms shall receive their primary power from the building wiring where such wiring is served from a commercial source and, where primary power is interrupted, shall receive power from a battery. Wiring shall be permanent and without disconnecting

FP-12 (2015 IRC R302.11) FIREBLOCKING REQUIRED

switch than those required for overcurrent protections.

Fire blocking is required in the following locations. -In concealed spaces of stud walls and partitions including furred spaces, parallel rows

of studs, staggered studs as follows: Vertically at ceiling and floor levels

Horizontally at intervals not exceeding 10 feet -At all interconnections between concealed vertical and horizontal spaces such as

soffits, dropped ceilings, and coved ceilings -In concealed spaces between stair stringers at the top and bottom of the run. -At openings around vents, pipes, ducts, cables, and wire at ceiling and floor level -At fireplaces & chimneys per IRC RI003.19

-Fireblocking cornices of a 2-family dwelling is required at the line of dwelling unit separation

#### SAFETY AND SECURITY

[55-1] (2015 IRC R308.4) SAFETY GLAZING - HAZARDOUS LOCATIONS Provide safety glazing in the following locations

- Glazing in fixed and sliding panels of sliding door assemblies and panels in sliding and bifold closet door assemblies

- Glazing in storm doors

- Glazing in swinging doors

-Glazing in unframed swinging doors

- Glazing in door or enclosure for hot tub, whirlpool, sauna, steam room, bathtub, and shower. Glazing in any part of the a building wall enclosing these where the the bottom edge of the glazing is less than 60" above a standing or walking surface.

- Glazing in an individual fixed or operable panel adjacent to a door where the nearest vertical edge is within a 24" arc of the door in a closed position AND whose bottom edge is less than 60" from the floor or walking surface.

- Glazing that meets all of the following conditions

Exposed area of an individual pane larger than 9 sf Bottom edge less than 18" above the floor Top edge more than 36" above the floor Walking surface within 36" horizontally of the glazing

-All glazing in railings (regardless of area or height).

-Glazing in walls and fences enclosing swimming pools, hot tubs, spas where the bottom edge is less than 60" above walking surface and within 60" horizontally of the water's

-Glazing adjacent to stairways, landings, and ramps within 36" horizontally of a walking surface when the exposed surface of the glass is less than 60" above the the plane of the adjacent walking surface.

-Glazing adjacent to stairways within 60" horizontally of the bottom tread in any direction when the exposed surface of the glass is less than 60" above the nose of the tread.

(SEE CODE SECTION FOR LIMITED LIST OF EXCEPTIONS)

66-2 (2015 IRC R310.1,2,3,4) EMERGENCY ESCAPE (EGRESS)

Emergency escape opening shall have a minimum net clear opening of 5.7 sf Grade floor openings shall have a minimum net clear opening of 5.0 sf

- Emergency escape opening shall have a minimum net clear opening height of 24" - Emergency escape opening shall have a minimum net clear opening width of 20"
- Emergency escape opening shall have a maximum sill height of 44"

55-3 (2015 IRC R311.2) EXIT DOOR

Not less than one exit door shall be provided. Minimum size of  $32" \times 78"$ 

65-4 (2015 IRC R311.7) STAIRWAYS

Stairway width shall be no less than 36" in clear width above the handrail height and below the required headroom height, handrails may project no more than 4.5" on either side of the stairway

HEADROOM

RISER HEIGHT

The minimum headroom of all parts of the stairway shall be no less than 6'-8" measured vertically from the sloped plane adjoining the tread nosings.

The maximum riser height is 7-3/4" The maximum discrepancy between tallest \$ shortest risers shall not exceed 3/8".

TREAD DEPTH

The minimum tread depth is 10" measured from nosing projection to nosing projection The maximum discrepancy between widest 4 narrowest treads shall not exceed 3/8".

NOSING Provide a nosing not less than 3/4" but not more than 1-1/4" wide on stairways with solid

HANDRAIL HEIGHT

HANDRAIL CONTINUITY

HANDRAIL

A continuous handrail is required on at least one side of each continuous run of treads or flight with 4 or more risers.

Not less than 34" or more than 38" above the sloped plan adjoining the tread nosings.

Handrail shall be continuous for the full length of the flight from a point directly above the top riser to a point directly above the bottom riser. Handrails shall be returned to

the wall or terminate in a newel post or safety terminus.

SAFETY AND SECURITY cont'd

HANDRAIL SPACE

There shall be a space of no less than 1-1/2" between handrail and adjacent wall surface.

HANDRAIL GRIP SIZE Handrails with a circular cross section shall have an outside diameter of at least 1-1/4"

and no more than 2". If the handrail is not circular it shall have a perimeter dimension of at least 4" and not more than 6-1/4" with a maximum cross section dimension of 2-1/4"

(See code for additional options). 65-5 (2015 IRC R312) GUARDS

Porches, balconies, ramps, and raised floor surfaces more than 30" above the floor or grade below shall have a guard not less than 36" in height. Open side of stairs with a total rise of 30" or more shall shall have quards a minimum

Guards shall have intermediate rails or balusters spaced so as not to allow the passing of a 4" diameter sphere.

#### BATHROOM NOTES

height of 34" above nosings.

BN-1 (2015 IRC 307.1) SPACE REQUIREMENTS

Toilet - Minimum 15" clear each side, Minimum 21" clear in front of bowl Vanity - Minimum 21" clear in front

Shower - Minimum  $30" \times 30"$ , 24" clear in front of opening

BN-2 (2015 IRC 307.2) TUB & SHOWER WALLS

Bathtub and shower floors and walls above bathtubs with shower heads shall be finished with a non-absorbant surface to a height of at least 6 feet above the floor.

#### ENERGY CODE

Ceiling Insulation:

All work to comply with 2015 Washington State Energy Code (WSEC).

EC-2 (2015 WSEC R402) BUILDING ENVELOPE REQUIREMENTS

Climate Zone 4C (Marine) - King County Compliance Path: Mandatory plus Prescriptive

Table 402.1.1

Fenestration U-Factor: (Vertical windows \$ doors): 0.28 Skylight U-Factor (Overhead): 0.50 Fenestration SHGC NR

Vaulted Ceiling Insulation: Wood framed wall insulation (above grade) Mass Wall Insulation

Wall Insulation (exterior below grade): Floor Insulation:

Wall Insulation (interior below grade):

Slab on Grade Insulation Heated Slab on Grade Insulation See Table 402.1.1 for footnotes

EC-3 (2015 WSEC R406) ADDITIONAL ENERGY EFFICIENCY REQUIREMENTS Dwelling units shall comply with all provisions of WSEC Chapter 4 and shall comply with sufficient options from Table R406.2 so as to achieve the at least the minimum number of Energy Credits as required (WSEC R406.2). Refer to Floor Plans, Sheets A-04 and A-05 for selected Energy Credit Options.

R-49 or R-38 adv

R-15 continuous or

R-10 continuous

R-10 (First 24")

R-10 continuous

slab & basement wall

R-21 int (R-21 cavity + R-10 insulated headers)

R-21 cavity + R5 thermal break between

R-38

R - 21

R-30

Access hatches from conditioned spaces to crawlspaces and attics shall be weatherstripped and insulated to a level equivalent to the surrounding surfaces. EC-5 (2015 WSEC R303.1.3) FENESTRATION (DOOR & WINDOW) U-FACTOR LABELS

All products shall be identified with NFRC 100 labels Indicating U-value, SHGC (or VT).

EC-6 (2015 WSEC TABLE 402.4.1.1) AIR BARRIER A continuous air barrier shall be installed in the building envelope. Breaks or joints in

the barrier shall be sealed. Air-permeable insulation shall not be used as a sealing

material.

EC-7 GROUND COVER A ground cover of 6 mil black polyethylene, Class 1 (0.1 per or less), vapor retarder material shall be installed over the ground in crawlspaces. Joints should be lapped 12" and the ground cover should extend to the foundation walls. Gound cover can be

omitted if crawlspaces have a concrete slab with a minimum thickness of 3-1/2".

EC-4 (2015 WSEC R402.2.4) ACCESS HATCHES & DOORS

EC-8 (2015 WSEC R402.4.3) AIR LEAKAGE OF FENESTRATION Exterior doors and windows shall be constructed to limit air leakage and be fitted with weatherstripping. Joints around door and window frames, openings between walls and foundations, between walls and roof, and any other penetrations shall be sealed, caulked, gasketed, or weatherstripped to prevent air leakage. Windows, skylights and sliding glass doors shall have an air infiltration rate of not more than 0.3 cfm per square foot, and swinging doors no more than 0.5 cfm per square foot, and be listed and labeled by

the manufacturer.

EC-9 (2015 WSEC R402.4.4) RECESSED LIGHTING Recessed light cans installed in the building envelope shall be Type IC rated and certified under ASTM 283 to have no more than 2.0 cfm air movement into the unconditioned cavity. They shall be installed with a gasket or caulk between the frame and the ceiling to prevent air leakage.

EC-10 (2015 WSEC 503.7) EQUIPMENT PERFORMANCE

Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on building loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies. The output capacity of heating and cooling equipment shall not be greater than that of the smallest available equipment size that exceeds the loads calculated, including allowable oversizing limits. New or replacement heating and cooling equipment shall have an efficiency rating equal to or greater than the minimum required by federal law for the geographic location where the equipment is installed.

EC-11 (2015 (WSEC R403.6) MECHANICAL VENTILATION

Mechanical ventilation system fans shall meet the efficacy requirements of Table R403.6.1. EC-12 (2015 WSEC R403.1) CONTROLS

Provide a programmable thermostat for regulation of temperature. Thermostat shall allow

for a 5-2 programmable schedule (weekdays/weekends) and be capable of providing at

least two programmable setback periods per day.

EC-13 (2015 WSEC R403.3) DUCTS Ducts within or partial exposed to unconditioned spaces shall be insulated to a minimum of R-8 (WSEC R403.3.1). Framing cavities shall not be used as ducts or plenums. Installation of ducts in exterior walls shall not displace required envelope insulation (WSEC R403.3.5).

EC-14 (2015 WSEC R403.3.2) SEALING OF MECHANICAL SYSTEM Ducts, air handlers, and filter boxes shall be sealed. Joints and seams shall comply with either the International Mechanical Code or International Residential Code, as applicable.

EC-15 (2015 WSEC R403.3.3) DUCT TESTING Ducts shall be leak tested in accordance with WSU RS-33, using the maximum duct leakage rates specified. A written report of the results shall be signed by the party conducting the test and provided to the building inspector. A signed affidavit documenting the duct leakage test results shall be provided to the building inspector prior to an approved final inspection.

#### ENERGY CODE cont'd

EC-16 (2015 WSEC R403.4) MECHANICAL SYSTEM PIPING

Mechanical system piping capable of carrying fluids above 105 deg. F or below 55 deg. F shall be insulated to a minimum of R-6.

EC-17 (2015 WSEC R403.5.3) HOT WATER PIPE INSULATION

Insulation for hot water pipes shall have a minimum thermal resistance of R-3.

EC-18 (2015 WSEC R403.5.5) ELECTRIC WATER HEATER INSULATION Electric water heaters in unconditioned space or on concrete floors shall be placed on an incompressible insulated surface with a minimum R-10.

EC-19 (2015 WSEC R404.1) LIGHTING EQUIPMENT

A minimum of 75 percent of permanently installed lamps in lighting fixtures shall be high efficacy lamps.

EC-20 (2015 WSEC 402.4.1.2) AIR LEAKAGE TESTING

posted on the Residential Energy Compliance Certificate.

The building or dwelling shall be tested and verified to have an air leakage rate not exceeding 5 air changes per hour. Testing shall be conducted with a blower door at a pressure of 0.2 inches w.g. Where required by the building official testing shall be conducted by an approved third party. Testing shall be performed any time after creation of all penetrations in the building thermal envelope. The test results shall be

EC-21 (2015 WSEC 401.3) ENERGY COMPLIANCE CERTIFICATE A Residential Energy Compliance Certificate is required to be completed by the design professional or builder and permanently posted on a wall in the space where the furnace is located, a utility room, or an approved location inside the building.

#### EXHAUST SYSTEMS CODE

All work to comply with 2015 International Residential Code (IRC), Chapter 15, Exhaust

VC-2 (2015 IRC Section MI507) MECHANICAL VENTILATION

Source Specific Exhaust Fans - Exhaust fans providing source specific ventilation shall have a minimum fan flow rating not less than 50 cfm intermittent for bathrooms, laundries, or similar rooms and 100 cfm intermittent for kitchens.

dehumidistats, timers, or other approved means. - Source specific ventilation ducts shall terminate outside the building. Exhaust ducts shall be equipped with backdraft dampers. All ducts in unconditioned spaces shall be insulated to a minimum of R-8.

- Source specific ventilation systems shall be controlled by manual switches,

VC-3 (2015 IRC Section MI507.3) WHOLE HOUSE MECHANICAL VENTILATION Whole-house mechanical ventilation systems shall be designed in accordance with Sections MI507.3 through MI507.3.3.

- Integrated whole house ventilation systems shall provide outdoor air at a continuous rate of not less than that determined in accordance with Table MI507.3.3.1. - Whole House mechanical ventilation system to operate intermittently with controls that enable operation for not less than 25-percent of each 4-hour segment and the ventilation rate prescribed in Table MI507.3.3(1) is multiplied by the factor determined in accordance with Table MI507.3.3(2).

- Integrated forced-air ventilation systems shall distribute outdoor air to each habitable room through the forced-air system ducts. - Integrated forced-air ventilation systems shall have an outdoor air inlet duct connecting a terminal element on the outside of the building to the return air

plenum of the forced air system at a point within 4 feet upstream of the air

- The outdoor air inlet duct connection to the return air stream shall be located upstream of the forced-air system blower and shall not be connected directly into a furnace cabinet to prevent thermal shock to the heat exchanger. - The system shall be equipped with a motorized damper connected to the

automatic ventilation control as specified in Section MI5Ø7.3.2. Item 5. The required flow rate shall be verified by field testing with a flow hood or a flow measuring station. Controls - The whole house ventilation system shall be controlled by a 24-hour clock timer with the capability of continuous operation, manual and automatic control. At the time of final inspection the automatic control timer shall be set to operate the

whole house system for at least 8 hours a day. A label shall be affixed to the

control that reads "WHOLE HOUSE VENTILATION - See operating instructions."

ignition is not less than 18" above the floor.

MW-3 (2015 IRC MI307.3.1) PROTECTION FROM IMPACT

MECHANICAL SYSTEM MW-1 (2015 IRC M1307.2) WATER HEATER ANCHORAGE

appliance. Strapping shall be a minimum of 4" above the controls.

MW-2 (2015 IRC MI307.3) ELEVATION OF IGNITION SOURCE Appliances having an ignition source shall be elevated such that the source of the

Appliances located in the garage shall be protected from impact by approved barriers.

Water heater shall be strapped at points within the upper 1/3 and lower 1/3 of the

STILLWELL HANSON

DRAWN BY

**DESIGN BY** 

CHECKED BY

APPROVED BY

DATE

September 15, 2019

REVISIONS

**ARCHITECTS** 46 ETRURIA STREET, SUITE 200 SEATTLE, WASHINGTON 98109 206 297 1504 PHONE

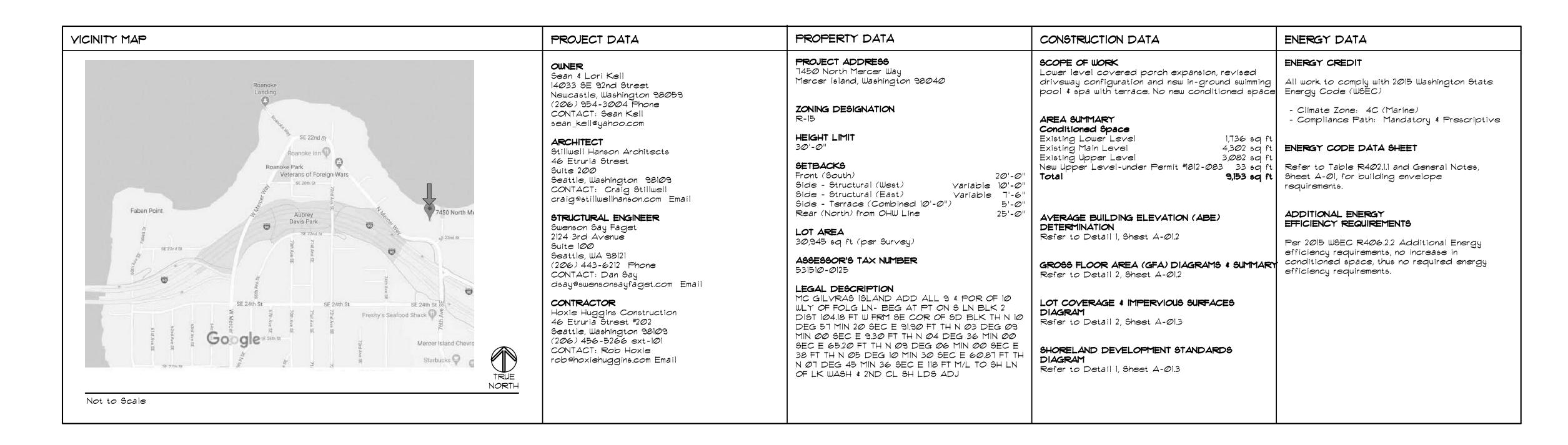
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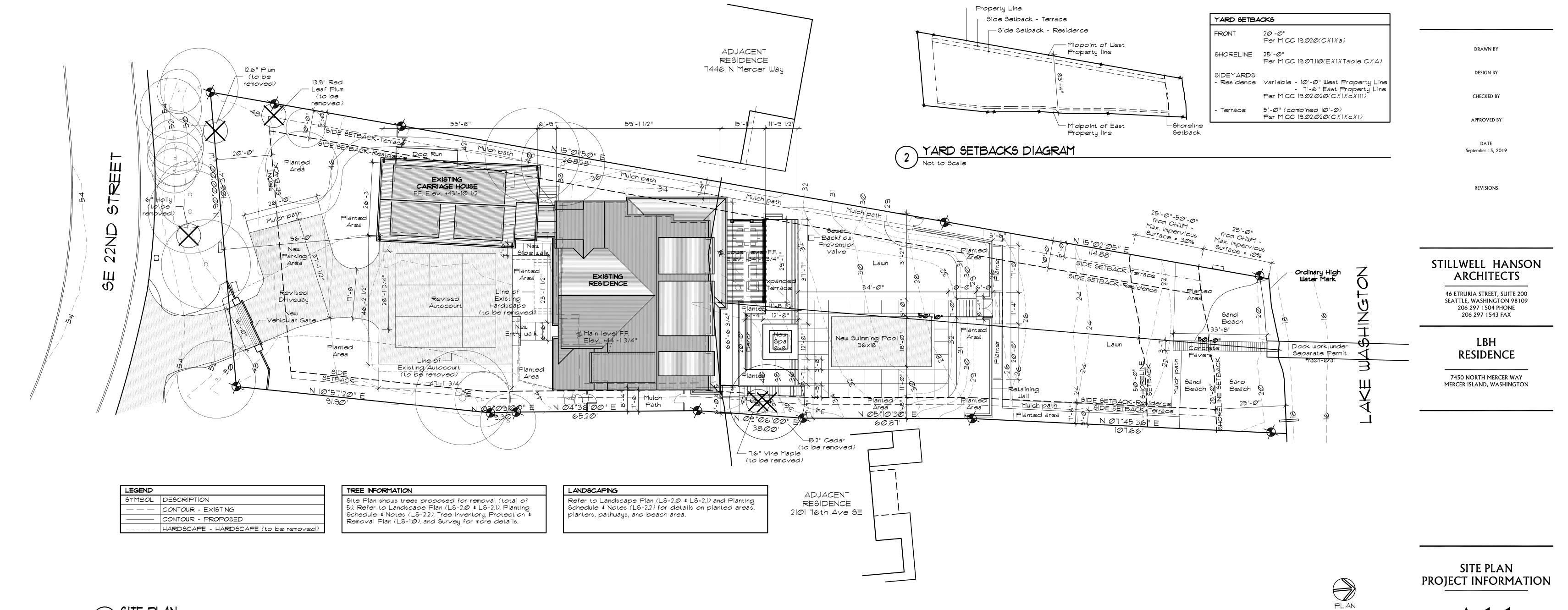
7450 NORTH MERCER WAY

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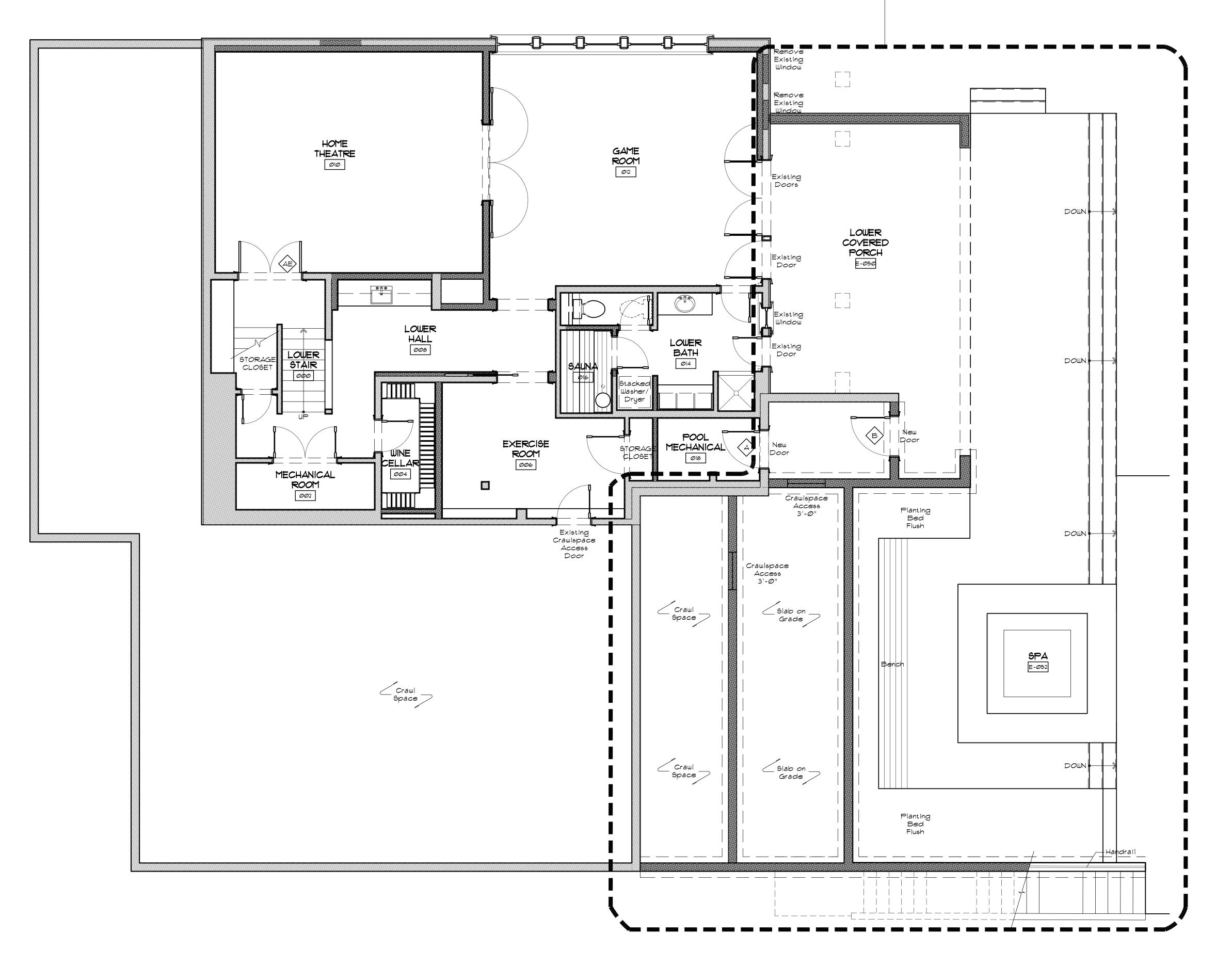
**GENERAL** 





A-1.1

NORTH



FLOOR PLAN LEGEND SYMBOL DESCRIPTION New Walls to be Constructed Existing Walls to Remain Existing Walls to be Demolished

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# STILLWELL HANSON ARCHITECTS

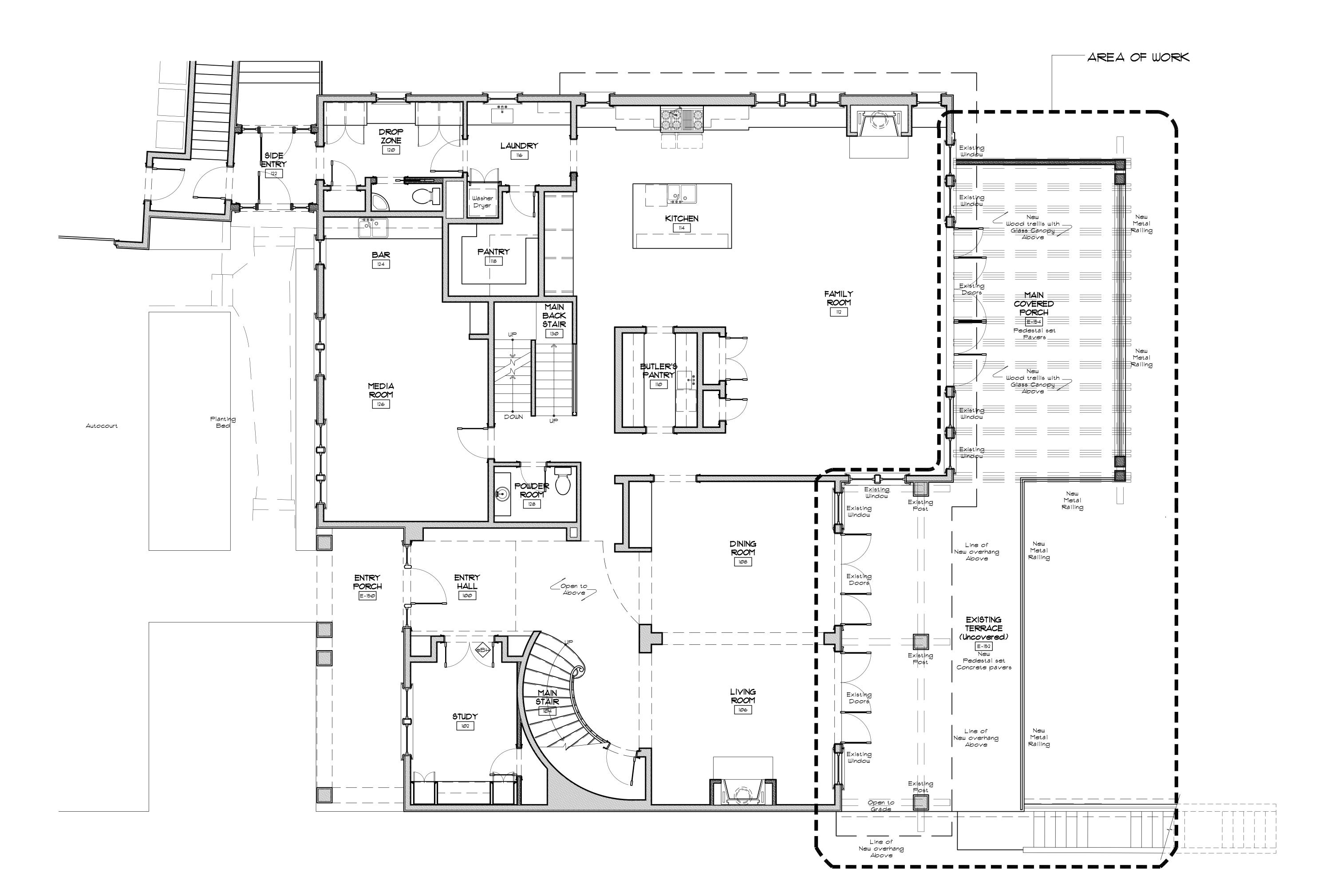
46 ETRURIA STREET, SUITE 200 SEATTLE, WASHINGTON 98109 206 297 1504 PHONE 206 297 1543 FAX

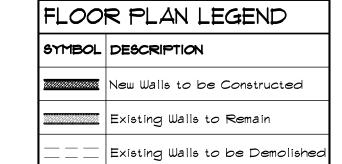
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7450 NORTH MERCER WAY MERCER ISLAND, WASHINGTON

FLOOR PLAN LOWER LEVEL

PLAN NORTH





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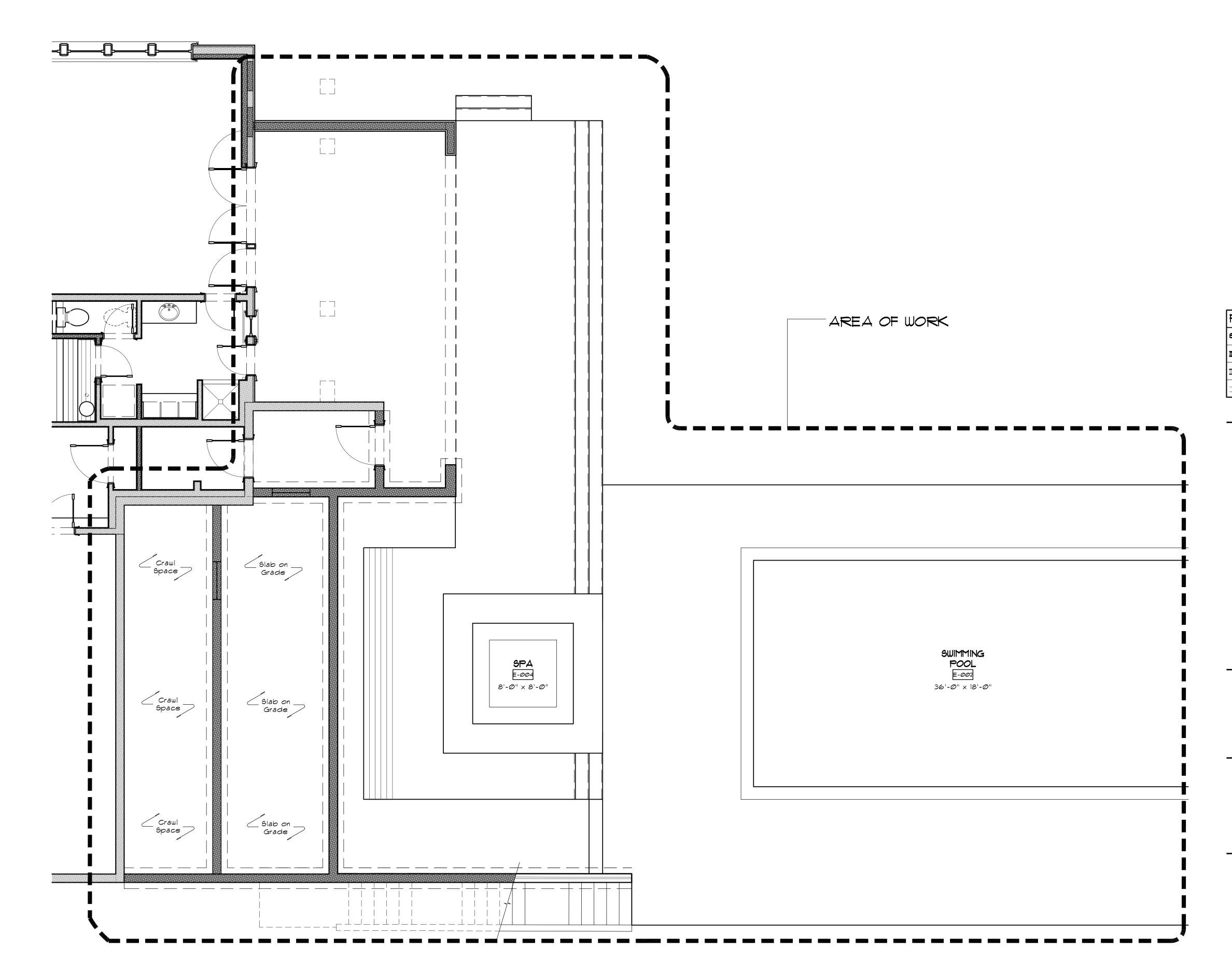
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# LBH RESIDENCE

7450 NORTH MERCER WAY MERCER ISLAND, WASHINGTON

FLOOR PLAN MAIN LEVEL

PLAN NORTH



FLOOR PLAN LEGEND

SYMBOL DESCRIPTION

New Walls to be Constructed

Existing Walls to Remain

Existing Walls to be Demolished

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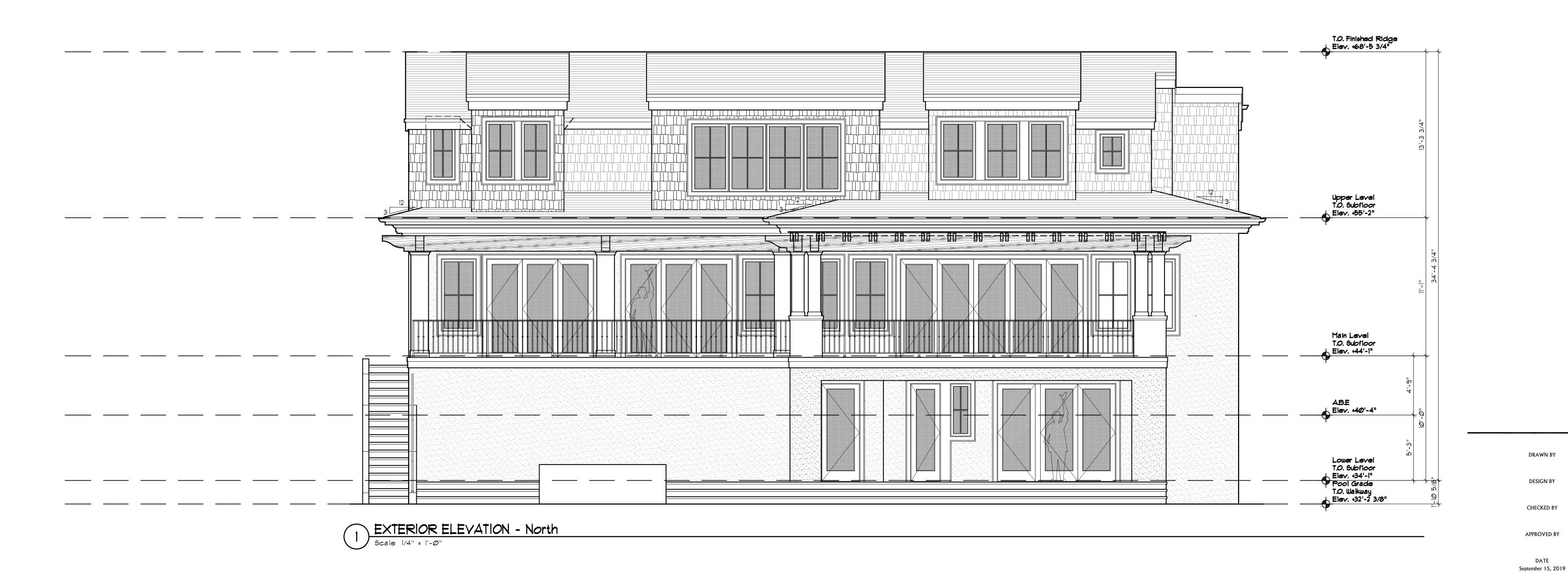
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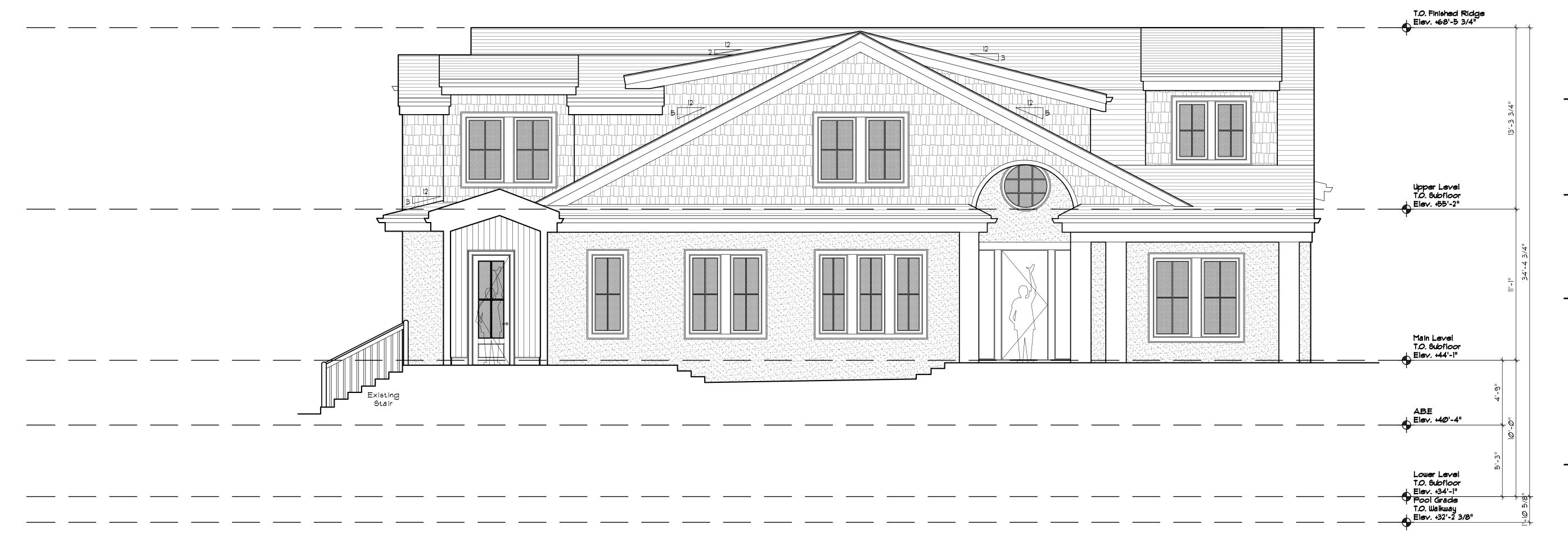
7450 NORTH MERCER WAY MERCER ISLAND, WASHINGTON

FLOOR PLAN POOL TERRACE

PLAN NORTH

A-2.5





**EXTERIOR ELEVATIONS** 

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LBH

RESIDENCE

7450 NORTH MERCER WAY MERCER ISLAND, WASHINGTON

A-3.1





**EXTERIOR ELEVATIONS** 

**REVISIONS** 

LBH RESIDENCE

A-3.2

#### General Structural Notes

STEEL

#### THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS

DRAWINGS. SPECIFICATIONS. AND THE INTERNATIONAL BUILDING CODE (2015) EDITION). 2. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE

CRITER!A

- DRAWINGS, SPECIFICATIONS, THE INTERNATIONAL BUILDING CODE (2015 EDITION). THIS STRUCTURE DOES NOT CONFORM TO PRESENT EARTHQUAKE CODE REQUIREMENTS. WITH INTERNATIONAL EXISTING BUILDING CODE, AND IS WITHIN THE CURRENT PRACTICE FOR THE RENOVATION OF EXISTING BUILDINGS OF THIS AGE AND TYPE OF CONSTRUCTION.
- . DESIGN LOADING CRITERIA: RESIDENTIAL - ONE AND TWO-FAMILY DWELLINGS DEFLECTION CRITERIA ENVIRONMENTAL LOADS SNOW . . . . . . . . . . . . Ce=1.0, Is=1.0, Ct=1.1, Pg=25 PSF, Pf=20 PSF WIND . . . . . . GCpi=0.18, 110 MPH, RISK CATEGORY II, EXPOSURE "B" EARTHQUAKE . ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
  - LATERAL SYSTEM: LIGHT FRAMED SHEAR WALLS. SITE CLASS=D, Ss=136, Sds=91, S1=53, SD1=53, Cs=0.140 SDC D, Ie=1.0, R=6.5
- 4. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION. ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATION, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK.
- . PRIMARY STRUCTURAL ELEMENTS NOT DIMENSIONED ON THE STRUCTURAL PLANS AND DETAILS SHALL BE LOCATED BY THE ARCHITECTURAL PLANS AND DETAILS. VERTICAL DIMENSION CONTROL IS DEFINED BY THE ARCHITECTURAL WALL SECTIONS, BUILDING SECTION, AND PLANS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN BOTH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE CONTRACTORS WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING 18. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS: CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT. SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES TO THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.
- CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS. CONFORM TO ASCE 37-14 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION".
- 8. CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.
- 9. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. ALL TYPICAL NOTES AND DETAILS SHOWN ON DRAWINGS SHALL APPLY. UNLESS NOTED OTHERWISE. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS BUT SHALL STILL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS. WHERE TYPICAL DETAILS ARE NOTED ON THE PLANS, THE SPECIFIED TYPICAL DETAIL SHALL BE USED. WHERE NO TYPICAL DETAIL IS NOTED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHOOSE THE APPROPRIATE TYPICAL DETAIL FROM THOSE PROVIDED OR REQUEST ADDITIONAL INFORMATION. THE CONTRACTOR SHALL SUBMIT ALL PROPOSED ALTERNATE TYPICAL DETAILS TO THOSE PROVIDED WITH RELATED CALCULATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO SHOP DRAWING PRODUCTION AND FIELD USE.
- 10. ALL STRUCTURAL SYSTEMS, WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.

# GEOTECHNICAL

11. FOUNDATION NOTES: ALLOWABLE SOIL PRESSURE AND LATERAL EARTH PRESSURE ARE ASSUMED AND THEREFORE MUST BE VERIFIED BY A QUALIFIED SOILS ENGINEER OR ASSUMED, NOTIFY THE STRUCTURAL ENGINEER FOR POSSIBLE FOUNDATION REDESIGN.

FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED EARTH AT LEAST 18" BELOW ADJACENT FINISHED GRADE. UNLESS OTHERWISE NOTED, FOOTINGS SHALL BE CENTERED BELOW COLUMNS OR WALLS ABOVE.

BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING, GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE.

ALLOWABLE SOIL PRESSURE	PSF
LATERAL EARTH PRESSURE (RESTRAINED/UNRESTRAINED)	PCF
ALLOWABLE PASSIVE EARTH PRESSURE (FS OF 1.5 INCLUDED) 300	PCF
COEFFICIENT OF FRICTION (FS OF 1.5 INCLUDED)	0.3
TRAFFIC SURCHARGE PRESSURE (UNIFORM LOAD)	PSF
SEISMIC SURCHARGE PRESSURE (UNIFORM LOAD)	PSF

#### RENOVATION

- ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE 12. DEMOLITION: CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE 25. STRUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE BASED ON: COMMENCING ANY DEMOLITION. SHORING SHALL BE INSTALLED TO SUPPORT EXISTING CONSTRUCTION AS REQUIRED AND IN A MANNER SUITABLE TO THE WORK SEQUENCES. DEMOLITION DEBRIS SHALL NOT BE ALLOWED TO DAMAGE OR OVERLOAD THE EXISTING STRUCTURE. LIMIT CONSTRUCTION LOADING (INCLUDING DEMOLITION DEBRIS) ON EXISTING FLOOR SYSTEMS TO 40 PSF.
- IT HAS BEEN ANALYZED AND REINFORCED FOR MINIMUM MAINTENANCE IN ACCORDANCE 13. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND 26. WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992, FY = 50 KSI. OTHER ROLLED MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER IF EXISTING CONDITIONS DETERMINED DURING WORK VARY FROM THE EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS.
  - 14. CONTRACTOR SHALL CHECK FOR DRY ROT AT ALL AREAS OF NEW WORK. ALL ROT SHALL BE REMOVED AND DAMAGED MEMBERS SHALL BE REPLACED OR REPAIRED AS DIRECTED BY THE STRUCTURAL ENGINEER OR ARCHITECT.

#### CONCRETE

- 15. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH ACI 301, INCLUDING TESTING PROCEDURES. CONCRETE SHALL ATTAIN A 28-DAY STRENGTH OF f'c = 3,000 PSI AND MIX SHALL CONTAIN NOT LESS THAN 5-1/2 SACKS OF CEMENT PER CUBIC YARD AND SHALL BE PROPORTIONED TO PRODUCE A SLUMP OF 5" OR LESS. REQUIRED CONCRETE STRENGTH IS BASED ON THE DURABILITY REQUIREMENTS OF SECTION 1904 OF THE IBC. DESIGN STRENGTH IS f'c = 2,500
- 16. ALL CONCRETE WITH SURFACES EXPOSED TO WEATHER OR STANDING WATER SHALL BE AND C618. TOTAL AIR CONTENT FOR FROST-RESISTANT CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318, TABLE 19.3.2.1 MODERATE EXPOSURE, F1.
- ACCORDANCE WITH ACI 315-99 AND 318-11. LAP ALL CONTINUOUS REINFORCEMENT #5 AND SMALLER 40 BAR DIAMETERS OR 2'-0" MINIMUM. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP CORNER BARS #5 AND SMALLER 40 BAR DIAMETERS OR 2'-0" MINIMUM. LAPS OF LARGER BARS SHALL BE MADE IN ACCORDANCE WITH ACI 318-11, CLASS B. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.

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

FORMED SURFACES EXPOSED TO EARTH OR WEATHER (#6 BARS OR LARGER) . . . . 2 FORMED SURFACES EXPOSED TO EARTH OR WEATHER (#5 BARS OR SMALLER). . 1-1/2" SLABS AND WALLS (INT. FACE). . . GREATER OF BAR DIAMETER PLUS 1/8" OR 3/4"

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

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

- 20. CAST-IN-PLACE CONCRETE: SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS OF DOOR AND WINDOW OPENINGS IN ALL CONCRETE WALLS. SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF MISCELLANEOUS MECHANICAL OPENINGS THROUGH CONCRETE WALLS. SEE ARCHITECTURAL DRAWINGS FOR ALL GROOVES, NOTCHES, CHAMFERS, FEATURE STRIPS, COLOR, TEXTURE, AND OTHER FINISH DETAILS AT ALL EXPOSED CONCRETE SURFACES, BOTH CAST-IN-PLACE AND
- ON WHICH IT IS PLACED (3000 PSI MINIMUM).

### ANCHORAGE

- ERECTED, SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, 22. EXPANSION BOLTS INTO CONCRETE SHALL BE "STRONG-BOLT 2" WEDGE ANCHORS AS MANUFACTURED BY THE SIMPSON STRONG TIE COMPANY AND INSTALLED IN STRICT CONFORMANCE TO ICC-ES REPORT NUMBER ESR-3037, INCLUDING MINIMUM EMBEDMENT REQUIREMENTS. BOLTS INTO CONCRETE MASONRY OR BRICK MASONRY UNITS SHALL BE INTO FULLY GROUTED CELLS. PERIODIC SPECIAL INSPECTION IS REQUIRED TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, ANCHOR LOCATION, TIGHTENING TORQUE, HOLE DIMENSIONS. ANCHOR EMBEDMENT, AND ADHERENCE TO THE INSTALLATION
- APPROVED BY THE BUILDING OFFICIAL. IF SOILS ARE FOUND TO BE OTHER THAN 23. EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) SPECIFIED ON THE DRAWINGS SHALL BE INSTALLED USING "SET-XP" HIGH STRENGTH EPOXY AS MANUFACTURED BY THE SIMPSON STRONG, TIE COMPANY. INSTALL IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-2508. MINIMUM BASE MATERIAL TEMPERATURE IS 50 DEGREES, F. RODS SHALL BE ASTM A-36 UNLESS OTHERWISE NOTED. PERIODIC SPECIAL INSPECTION OF INSTALLATION IS REQUIRED TO VERIFY ANCHOR OR EMBEDED BAR TYPE AND DIMENSIONS, LOCATION, ADHESIVE IDENTIFICATION AND EXPIRATION, HOLE DIMENSIONS, HOLE CLEANING PROCEDURE, ANCHOR EMBEDMENT, AND ADHERENCE TO THE INSTALLATION INSTRUCTIONS. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR HORIZONTAL AND OVERHEAD INSTALLATIONS.
  - "TITEN HD" HEAVY DUTY SCREW ANCHOR AS MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY, INSTALLED IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-2713 (CONCRETE), NO. ESR-1056 (CMU), INCLUDING MINIMUM EMBEDMENT REQUIREMENTS. SCREW ANCHORS INTO CONCRETE MASONRY UNITS SHALL BE INTO

- A. AISC 360 AND SECTION 2205. 2 OF THE INTERNATIONAL BUILDING CODE. B. APRIL 14, 2010 AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AMENDED AS FOLLOWS: AS NOTED IN THE CONTRACT DOCUMENTS, BY THE DELETION OF PARAGRAPH 4.4.1, AND REVISE REFERENCE FROM "STRUCTURAL DESIGN DRAWINGS" TO "CONTRACT DOCUMENTS" IN PARAGRAPH 3.1. C. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.
- SHAPES INCLUDING PLATES, SHALL CONFORM TO ASTM A36, FY = 36 KSI. STEEL STRUCTURAL TUBING SHALL CONFORM TO ASTM A500. GRADE B. FY = 42 KSI (ROUND), FY = 46 KSI (SQUARE AND RECTANGULAR). CONNECTION BOLTS SHALL CONFORM TO ASTM A307.
- 27. ALL STEEL EXPOSED TO THE WEATHER OR IN CONTACT WITH GROUND SHALL BE CORROSION PROTECTED BY GALVANIZATION OR PROVIDED WITH EXTERIOR PAINT SYSTEM, UNLESS OTHERWISE NOTED.

MINIMUM CVN TOUGHNESS OF 20 FT-LBS AT -20 DEGREES F AND 40 FT - LBS AT 70

DEGREES F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER

31. FRAMING LUMBER SHALL BE S-DRY, KD, OR MC-19, AND GRADED AND MARKED IN

BEAMS (INCL. 6X AND LARGER) DOUGLAS FIR-LARCH NO. 1

32. GLUED LAMINATED MEMBERS SHALL BE FABRICATED IN CONFORMANCE WITH ASTM AND

ANSI/AITC STANDARDS. EACH MEMBER SHALL BEAR AN AITC OR APA-EWS

IDENTIFICATION MARK AND SHALL BE ACCOMPANIED BY AN AITC OR APA-EWS

CERTIFICATE OF CONFORMANCE. ALL SIMPLE SPAN BEAMS SHALL BE DOUGLAS FIR

COMBINATION 24F-V4, Fb = 2,400 PSI, Fv =265 PSI. ALL CANTILEVERED BEAMS

MANUFACTURED BY THE WEYERHAEUSER CORPORATION IN ACCORDANCE WITH ICC-ES

Fb = 2900 PSI, E = 2000 KSI, Fv = 290 PSI

Fb = 2600 PSI, E = 2000 KSI, Fv = 285 PSI

Fb = 2325 PSI, E = 1550 KSI, Fv = 310 PSI

ALTERNATE MANUFACTURED LUMBER MANUFACTURERS MAY BE USED SUBJECT TO REVIEW

AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER. ALTERNATE

MANUFACTURER'S PRODUCTS SHALL BE COMPATIBLE WITH THE JOIST HANGERS AND

OTHER HARDWARE SPECIFIED ON PLANS, OR ALTERNATE HANGERS AND HARDWARE SHALL

REPORT APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES.

SUBMITTED FOR REVIEW AND APPROVAL. SUBSTITUTED ITEMS SHALL HAVE ICC-ES

MANUFACTURED LUMBER PRODUCTS SHALL BE INSTALLED WITH A MOISTURE CONTENT OF

12% OR LESS. THE CONTRACTOR SHALL MAKE PROVISIONS DURING CONSTRUCTION TO

PREVENT THE MOISTURE CONTENT OF INSTALLED BEAMS FROM EXCEEDING 12%.

EXCESSIVE DEFLECTIONS MAY OCCUR IF MOISTURE CONTENT EXCEEDS THIS VALUE.

34. PLYWOOD SHEATHING SHALL BE GRADE C-D, EXTERIOR GLUE OR STRUCTURAL II,

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

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

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

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

SPACING AT ALL PANEL EDGES AND ENDS OF FLOOR AND ROOF SHEATHING.

REFER TO WOOD FRAMING NOTES BELOW FOR TYPICAL NAILING REQUIREMENTS.

EXTERIOR GLUE IN CONFORMANCE WITH DOC PS 1 OR PS 2. ORIENTED STRAND BOARD

OF EQUIVALENT THICKNESS, EXPOSURE RATING AND PANEL INDEX MAY BE USED IN

SHALL BE DOUGLAS FIR COMBINATION 24F-V8, Fb = 2400 PSI, Fv = 265 PSI.

33. MANUFACTURED LUMBER. PSL. LVL. AND LSL SHOWN ON PLAN ARE BASED PRODUCTS

REPORT ESR-1387. MEMBERS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

CONFORMANCE WITH WCLIB STANDARD "GRADING RULES FOR WEST COAST LUMBER NO.

17", OR WWPA STANDARD, "WESTERN LUMBER GRADING RULES 2011". FURNISH TO

HEM-FIR NO. 2

MINIMUM BASE VALUE, Fb = 850 PSI

MINIMUM BASE VALUE, Fb = 1000 PSI

MINIMUM BASE VALUE, Fb = 1350 PSI

MINIMUM BASE VALUE, Fc = 1350 PSI

MINIMUM BASE VALUE, Fc = 1000 PSI

DOUGLAS-FIR-LARCH OR HEM-FIR NO. 2

DOUGLAS FIR-LARCH NO. 1

DOUGLAS FIR-LARCH NO. 2

DOUGLAS FIR-LARCH NO. 1

#### 28. SHOP PRIME ALL STEEL EXCEPT:

B. SURFACES TO BE WELDED.

CERTIFICATION.

AND BEAMS

PSL (2.0E)

LVL (2.0E)

LSL (1.55E)

LIEU OF PLYWOOD.

THE FOLLOWING MINIMUM STANDARDS:

(4X MEMBERS)

(4X MEMBERS)

STUDS, PLATES & MISC. FRAMING:

(6X AND LARGER)

JOISTS (2X & 3X MEMBERS)

A. STEEL ENCASED IN CONCRETE.

D. MEMBERS TO BE GALVANIZED.

C. CONTACT SURFACES AT HIGH-STRENGTH BOLTS.

F. SURFACES TO RECEIVE SPRAYED FIREPROOFING.

G. SURFACES TO RECEIVE OTHER SPECIAL SHOP PRIMERS.

E. MEMBERS WHICH WILL BE CONCEALED BY INTERIOR FINISHES.

- 17. DETAILING OF REINFORCING STEEL (INCLUDING HOOKS AND BENDS) SHALL BE IN 30. ALL WELDING SHALL BE IN CONFORMANCE WITH AISC AND AWS STANDARDS AND SHALL

FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSED

6" WALLS	#4 @ 16 HORIZ.	#4 @ 18 VERTICAL	1 CURTAIN
8"WALLS	#4 @ 12 HORI7	#4 @ 18 VFRTICAL	1 CURTAIN

- 21. NON-SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL
- INSTRUCTIONS.
- 24. CONCRETE SCREW ANCHORS INTO CONCRETE AND CONCRETE MASONRY UNITS SHALL BE FULLY GROUTED CELLS. SPECIAL INSPECTION IS REQUIRED.

35. ALL WOOD IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE 41. WOOD FRAMING NOTES--THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE PRESSURE-TREATED WITH AN APPROVED PRESERVATIVE OR (2) LAYERS OF ASPHALT IMPREGNATED BUILDING PAPER SHALL BE PROVIDED BETWEEN UNTREATED WOOD AND CONCRETE OR MASONRY.

- 36. PRESERVATIVE TREATED WOOD SHALL BE TREATED PER AWPA STANDARD U1 TO THE USE CATEGORY EQUAL TO OR HIGHER THAN THE INTENDED APPLICATION. TREATED WOOD FOR ABOVE GROUND USE SHALL BE TREATED TO AWPA UC3B. WOOD IN CONTINUOUS CONTACT WITH FRESH WATER OR SOIL SHALL BE TREATED TO AWPA UC4A. WOOD FOR USE IN PERMANENT FOUNDATIONS SHALL BE TREATED TO AWPA UC4B.
- PIPE SHALL CONFORM TO ASTM A-53, TYPE E OR S. GRADE B. Fy = 35 KSI. 37. FASTENERS AND TIMBER CONNECTORS USED WITH TREATED WOOD SHALL HAVE CORROSION RESISTANCE AS INDICATED IN THE FOLLOWING TABLE, UNLESS OTHERWISE

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

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

AIR-ENTRAINED WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260, C494, 29. ALL ANCHORS EMBEDDED IN MASONRY OR CONCRETE SHALL BE A307 HEADED BOLTS OR 38. TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" A36 THREADED ROD WITH AN ASTM 563 HEAVY HEX NUT TACK WELDED ON THE BY SIMPSON COMPANY, AS SPECIFIED IN THEIR CATALOG NUMBER C-2015. EQUIVALENT DEVICES BY OTHER MANUFACTURERS MAY BE SUBSTITUTED, PROVIDED THEY HAVE ICC-ES APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. PROVIDE NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER FOR MAXIMUM LOAD BE PERFORMED BY WABO CERTIFIED WELDERS USING E70XX ELECTRODES. ONLY CARRYING CAPACITY. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE PREQUALIFIED WELDS (AS DEFINED BY AWS) SHALL BE USED. ALL COMPLETE JOINT MANUFACTURER'S RECOMMENDATIONS. PENETRATION GROOVE WELDS SHALL BE MADE WITH A FILLER MATERIAL THAT HAS A

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

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

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

#### 39. WOOD FASTENERS

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

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

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

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

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

### 40. NOTCHES AND HOLES IN WOOD FRAMING:

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

A. ALL WOOD FRAMING DETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE INTERNATIONAL BUILDING CODE, THE AITC "TIMBER CONSTRUCTION MANUAL" AND THE AF&PA "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION". MINIMUM NAILING, UNLESS OTHERWISE NOTED, SHALL CONFORM TO IBC TABLE 2304.10.1. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS.

B. WALL FRAMING: REFER ARCHITECTURAL DRAWINGS FOR THE SIZE OF ALL WALLS. ALL STUDS SHALL BE SPACED AT 16" O.C. UNO. TWO STUDS MINIMUM SHALL BE PROVIDED AT THE END OF ALL WALLS AND AT EACH SIDE OF ALL OPENINGS. AND AT BEAM OR HEADER BEARING LOCATIONS. TWO 2x8 HEADERS SHALL BE PROVIDED OVER ALL OPENINGS NOT OTHERWISE NOTED. SOLID BLOCKING FOR WOOD COLUMNS SHALL BE PROVIDED THROUGH FLOORS TO SUPPORTS BELOW. PROVIDE CONTINUOUS SOLID BLOCKING AT MID-HEIGHT OF ALL STUD WALLS OVER 10'-0" IN HEIGHT.

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

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

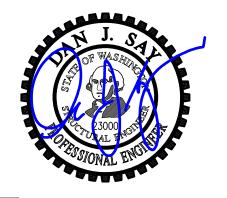
C. FLOOR AND ROOF FRAMING: PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS THAT EXTEND OVER MORE THAN HALF THE JOIST LENGTH AND AROUND ALL OPENINGS IN FLOORS OR ROOFS UNLESS OTHERWISE NOTED. PROVIDE SOLID BLOCKING AT ALL BEARING POINTS. TOE-NAIL JOISTS TO SUPPORTS WITH TWO 16d NAILS. ATTACH TIMBER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

UNLESS OTHERWISE NOTED ON THE PLANS, PLYWOOD ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH GRAIN PERPENDICULAR TO SUPPORTS AND NAILED AT 6' ON-CENTER WITH 8d NAILS TO FRAMED PANEL EDGES, STRUTS AND OVER STUD WALLS AS SHOWN ON PLANS AND @ 12" ON-CENTER TO INTERMEDIATE SUPPORTS PROVIDE APPROVED PLYWOOD FDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED T&G JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF FLOOR AND ROOF SHEATHING. TOENAIL BLOCKING TO SUPPORTS WITH 16d @ 12" ON-CENTER UNLESS OTHERWISE NOTED.



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DRAWN:	RJ
DESIGN:	KWW
CHECKED:	KMR
APPROVED:	DJS

REVISIO	ONS:	
	Corrections	Feb. 19, 20
2	Corrections	Mar. 21, 20
3	Corrections	July 12, 20
		_

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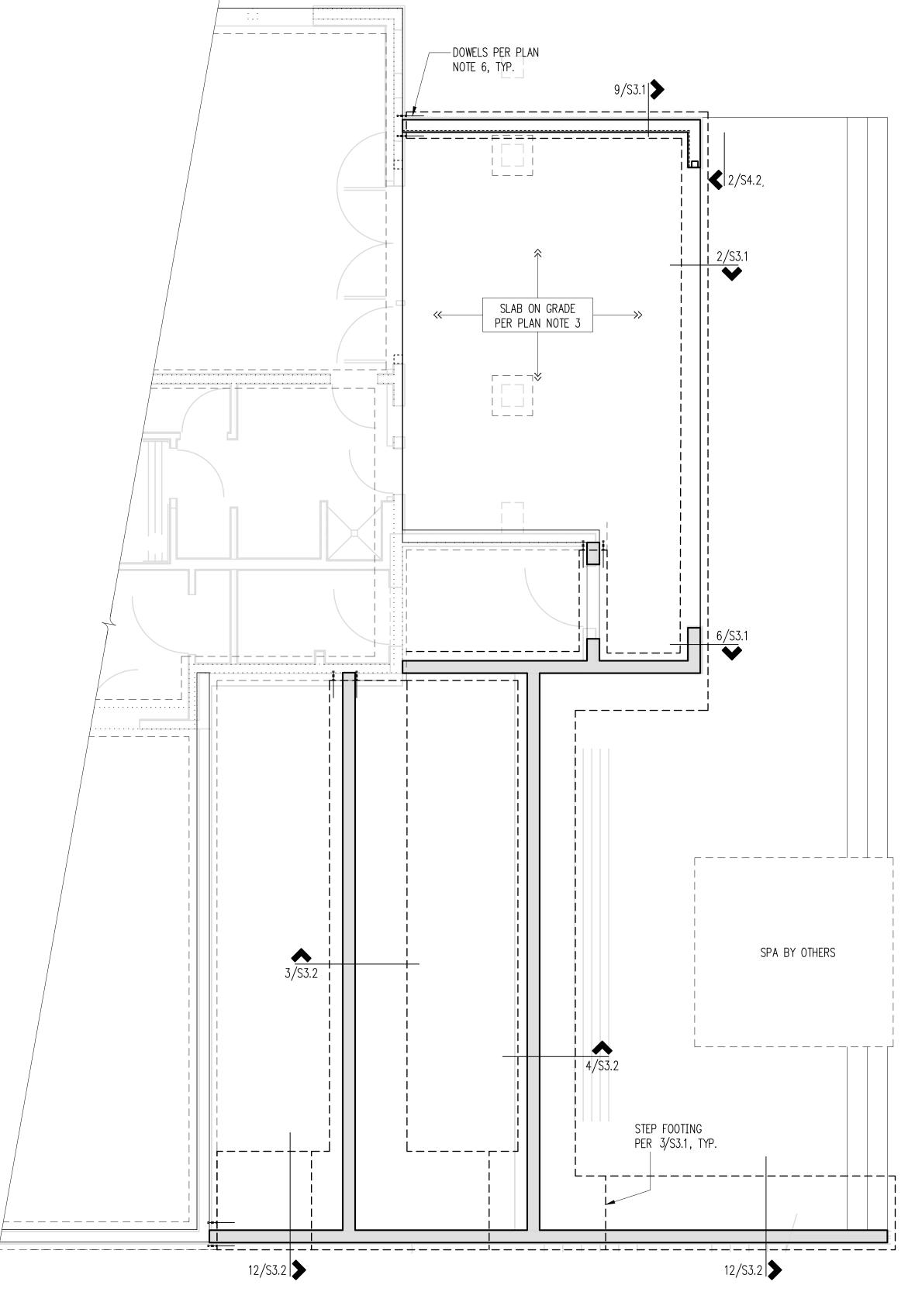
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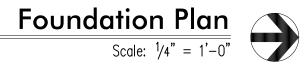
General Structural Notes

November 30, 2018 PROJECT NO: 00834-2018-08

#### Plan Notes

- 1. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
- 2. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 18" MINIMUM BELOW GRADE.
- 3. 4" CONCRETE SLAB OVER 6 MIL VAPOR BARRIER ON 4" OF GRAVEL OR CRUSHED ROCK OVER FIRM UNDISTURBED SOIL OR ENGINEERED COMPACTED BACK-FILL. REINFORCE #3 AT 16"OC EACH WAY, CENTERED. PROVIDE CONSTRUCTION/CONTROL JOINTS PER DETAIL 12/S3.1.
- 4. PROVIDE CORNER BARS PER DETAIL 8/S3.1 AT ALL WALL AND FOOTING INTERSECTIONS.
- 5. ALL POSTS ABOVE SHALL BEAR FULLY ON BEAMS OR POSTS BELOW AND SHALL HAVE CONTINUOUS FULL BEARING THROUGH FLOORS TO THE FOUNDATION.
- 6. PROVIDE EPOXY GROUTED #4 X 2'-6" DOWELS EMBEDDED A MINIMUM OF 6" IN TO EXISTING CONCRETE TO MATCH NEW HORIZONTAL REINFORCING. TYPICAL WHERE NEW CONCRETE WALL OR FOOTING TERMINATES AT EXISTING CONCRETE. EPOXY GROUT PER GENERAL STRUCTURAL NOTES.
- 7. CONTRACTOR SHALL VERIFY ALL EXISTING FRAMING CALLED OUT ON PLAN. IF DISCREPANCIES ARE FOUND, CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD IMMEDIATELY.
- 8. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.







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

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DRAWN:	RJ
DESIGN:	KWW
CHECKED:	KMR
APPROVED:	DJS

REVISIONS:	
Corrections	Feb. 19, 20
<u>Corrections</u>	Mar. 21, 20
Corrections	July 12, 20



# LBH Residence

7450 North Mercer Way Mercer Island, WA

Stillwell Hanson Architects 46 Etruria Street, Suite 200 Seattle, WA 98109

PH 206 297 1504

Permit

**Foundation** 

1/4" = 1'-0"

November 30, 2018 PROJECT NO: 00834-2018-08

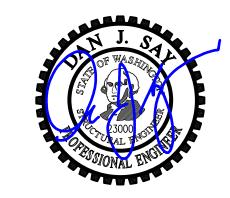
#### Plan Notes

- 1. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
- 2. ALL (E) SHEATHING W/ DAMAGE MORE THAN 1/4" DEEP SHALL BE REPLACED IN KIND OR SUPPLEMENTED WITH AN ADDITION SHEET OF 1/2" TONGUE AND GROOVE A.P.A. RATED PANELS (EXPOSURE 1, SPAN RATING 32/16). GLUE AND NAIL AT ALL FRAMED PANEL EDGES WITH 8D AT 6" O.C. AND TO ALL INTERMEDIATE FRAMING AT 12" O.C.
- 3. HEADERS OVER DOOR AND WINDOW OPENINGS SHALL BE (2) 2X8 MINIMUM. PROVIDE (2) TRIMMER STUDS (MINIMUM) AT EACH END OF ALL HEADERS UNLESS NOTED OTHERWISE ON PLANS. SEE DETAIL 6/S4.1 FOR TYPICAL INSTALLATION.
- 4. PROVIDE (2) STUDS (MINIMUM) AT EACH END OF ALL BEAMS UNLESS NOTED OTHERWISE ON PLANS. BEAR BEAM FULLY ON BUILT UP COLUMN AND PROVIDE AC, PC, OR LPC CAP.
- 5. MANUFACTURED LUMBER PRODUCTS (LSL, LVL, PSL, GL) SHALL BE INSTALLED WITH A MOISTURE CONTENT OF 12% OR LESS. THE CONTRACTOR SHALL MAKE PROVISIONS DURING CONSTRUCTION TO PREVENT THE
- MOISTURE CONTENT OF INSTALLED BEAMS FROM EXCEEDING 12%.
- 6. ALL POSTS ABOVE SHALL BEAR FULLY ON BEAMS OR POSTS BELOW AND SHALL HAVE CONTINUOUS FULL BEARING THROUGH FLOORS TO THE FOUNDATION.
- 7. SPLICE ALL TOP PLATE SPLICES PER DETAIL 10/S4.1.
- 8. PROVIDE EPOXY GROUTED #4 X 2'-6" DOWELS EMBEDDED A MINIMUM OF 6" IN TO EXISTING CONCRETE TO MATCH NEW HORIZONTAL REINFORCING. TYPICAL WHERE NEW CONCRETE WALL OR FOOTING TERMINATES AT EXISTING CONCRETE. EPOXY GROUT PER GENERAL STRUCTURAL NOTES.
- 9. CONTRACTOR SHALL VERIFY ALL EXISTING FRAMING CALLED OUT ON PLAN. IF DISCREPANCIES ARE FOUND, CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD IMMEDIATELY.
- 10. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



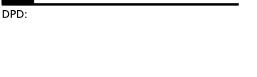
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REVISIO	NS:	
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# LBH Residence

7450 North Mercer Way Mercer Island, WA

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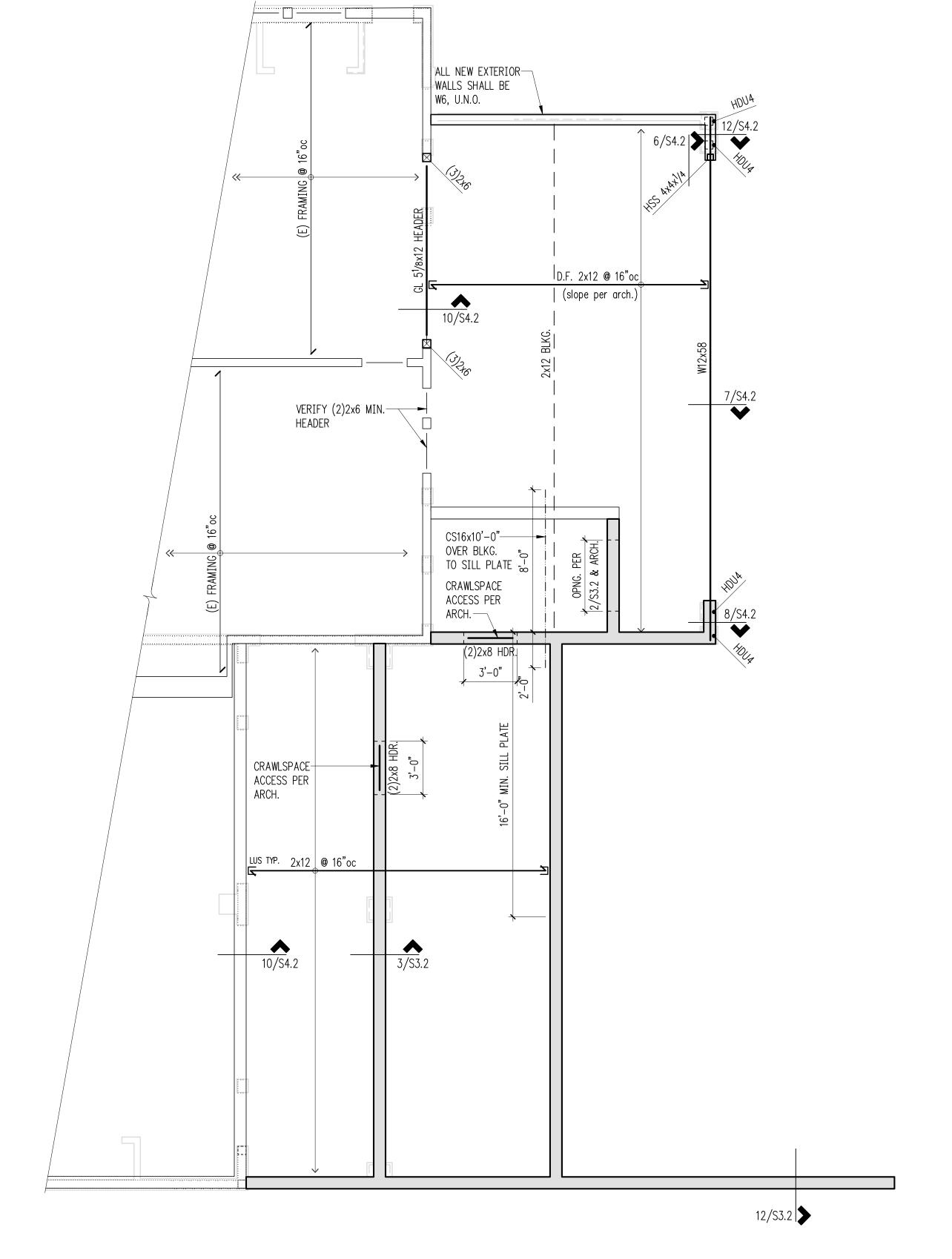
Permit

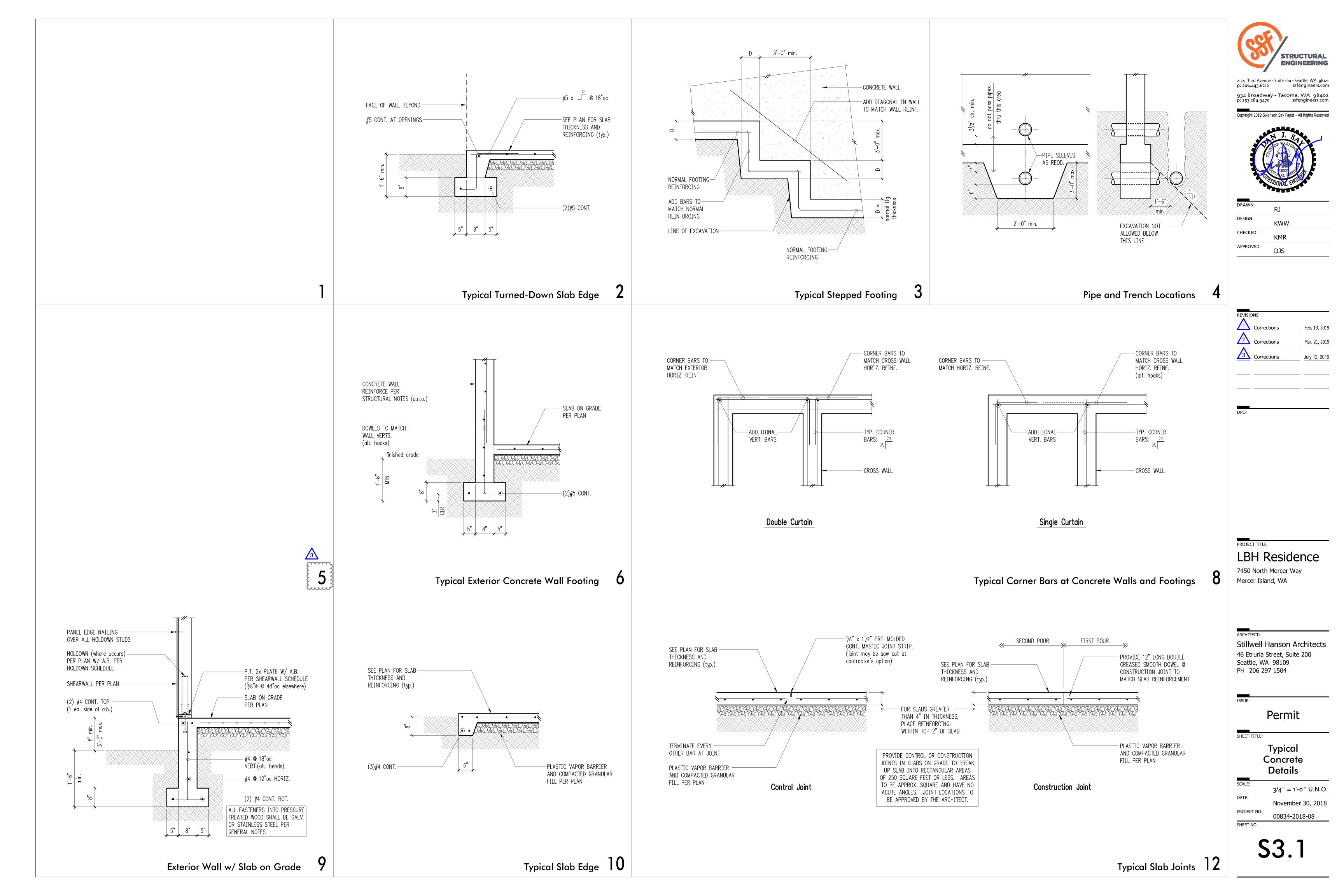
Main Floor Framing

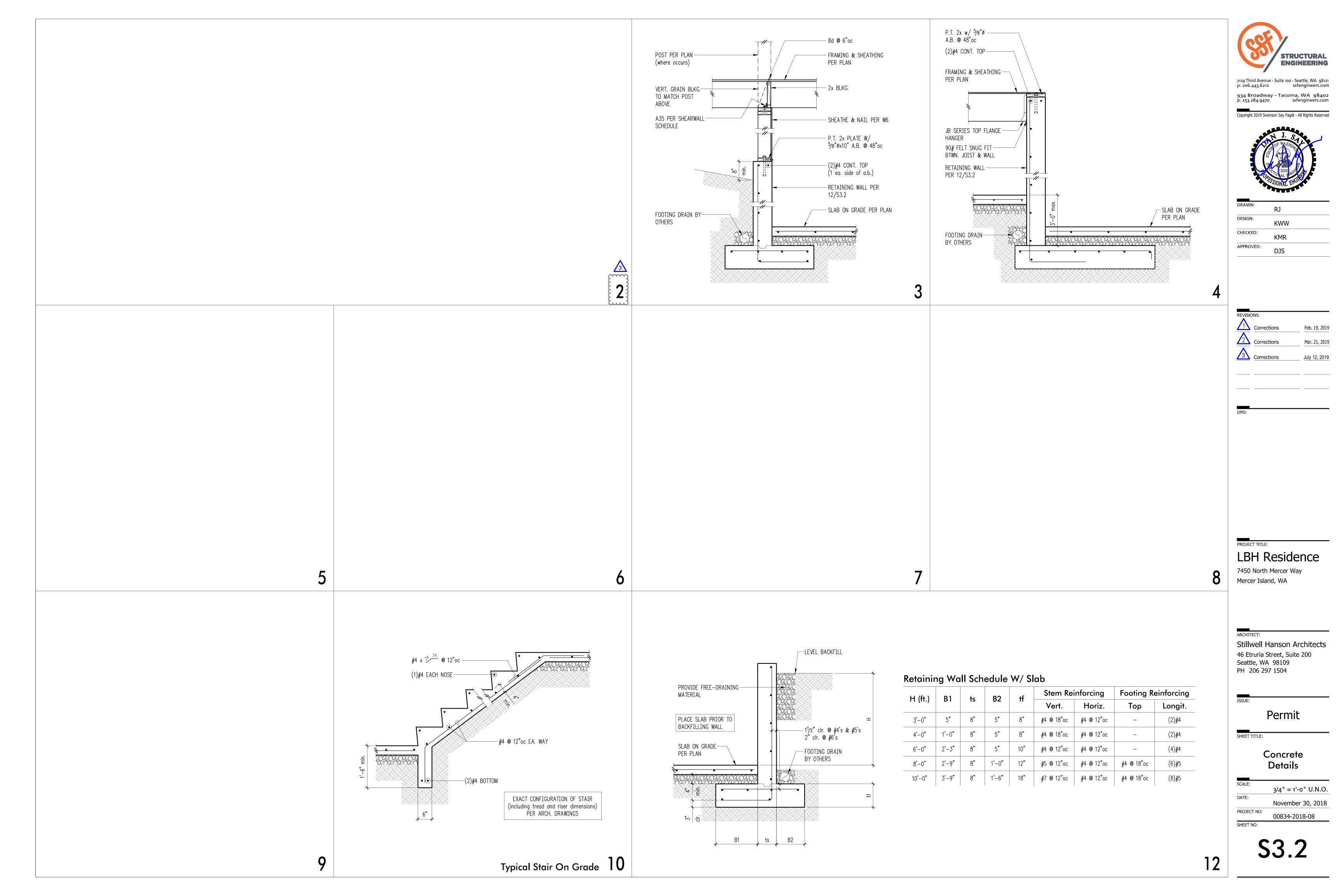
1/4" = 1'-0"

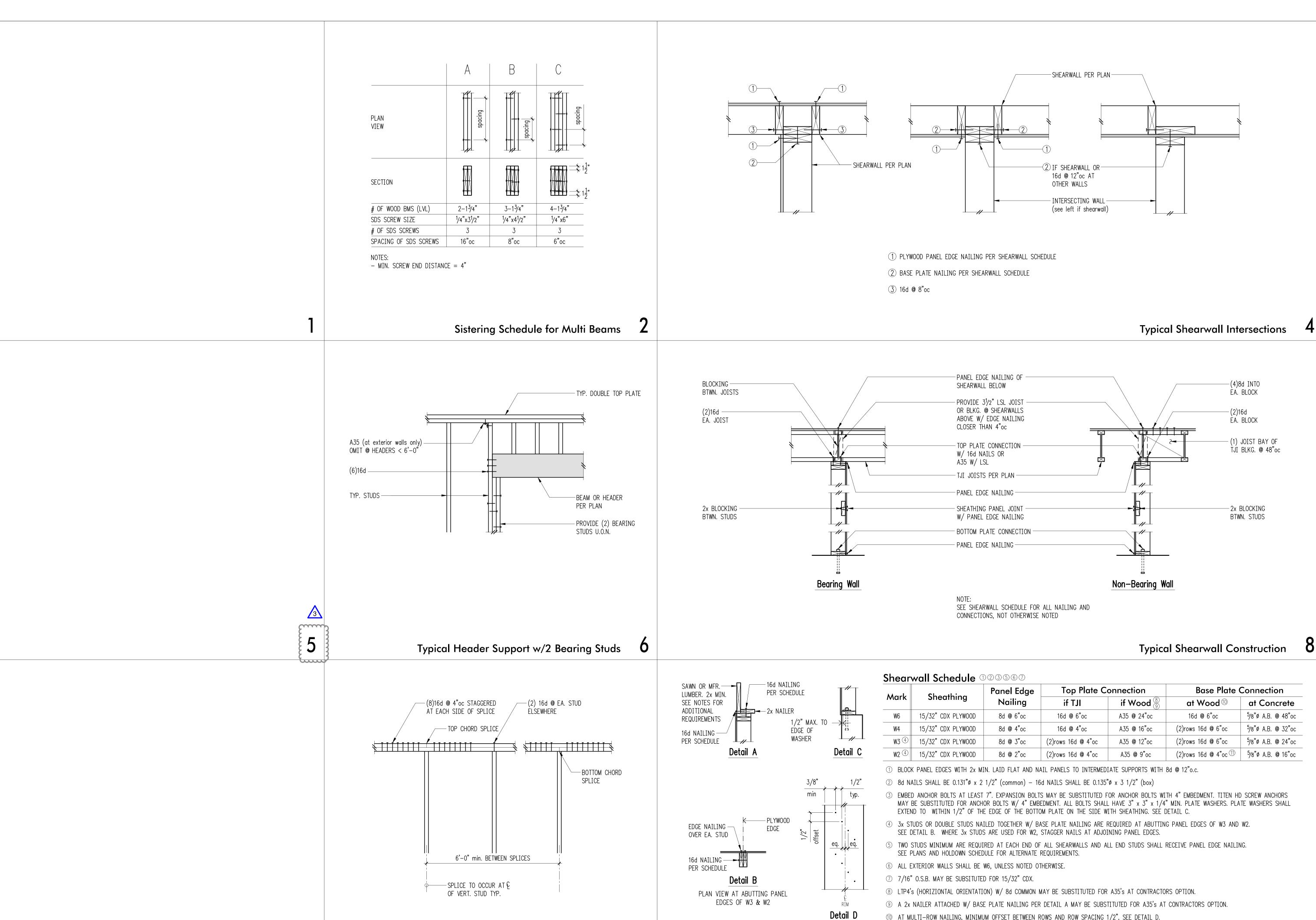
November 30, 2018

PROJECT NO: 00834-2018-08









Typical Top Plate Splice 10

9

**STRUCTURAL ENGINEERING** 

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ORAWN:	RJ
DESIGN:	KWW
CHECKED:	KMR
APPROVED:	DJS

REVISIONS: Corrections Feb. 19, 2019 Corrections Mar. 21, 2019

July 12, 2019

Corrections

LBH Residence

7450 North Mercer Way Mercer Island, WA

ARCHITECT:

Stillwell Hanson Architects 46 Etruria Street, Suite 200 Seattle, WA 98109 PH 206 297 1504

Permit

SHEET TITLE:

Typical **Wood Framing Details** 

3/4" = 1'-0" U.N.O. November 30, 2018 PROJECT NO: 00834-2018-08

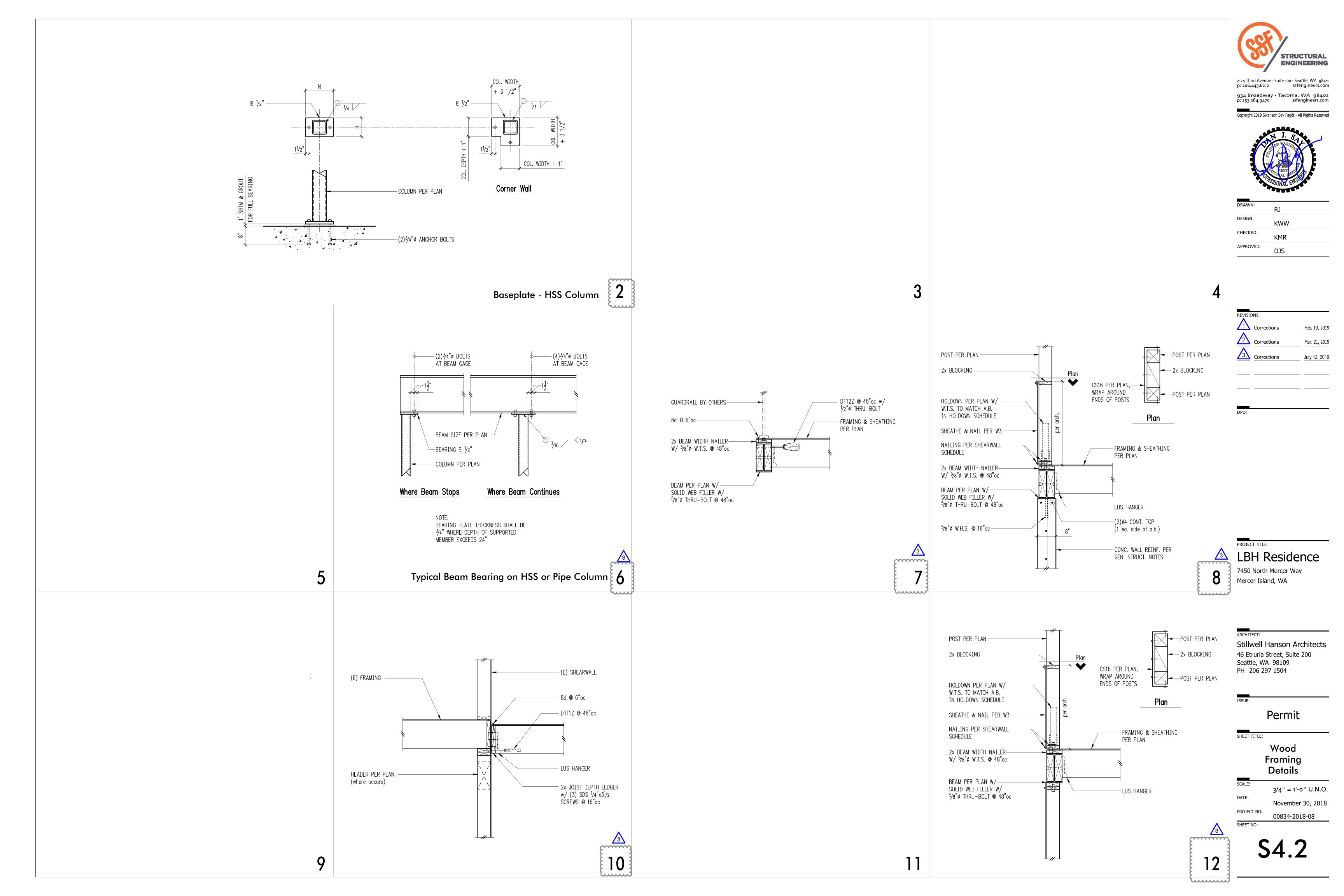
**S4**.1

SHEET NO:

Shearwall Schedule - (Sheathed One Side) 12

① AT MULTI-ROW NAILING, MINIMUM OFFSET BETWEEN ROWS AND ROW SPACING 1/2", SEE DETAIL D.

① PROVIDE (3) ROWS 16d @ 6"oc AT LVL RIMS.



# SE 1/4 OF SW 1/4 SEC. 1, TWN. 24N, RGE. 4E, W.M.

#### GENERAL NOTES

- 1. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
- 2. SPECIAL INSPECTIONS BY CITY INSPECTOR MAY BE REQUIRED DURING CONSTRUCTION. GENERAL CONTRACTOR TO COORDINATE.
- 3. IF/WHEN APPLICABLE ALL ROADWAY WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH THE CURRENT APWA AND CITY OF MERCER ISLAND STANDARDS AND SPECIFICATIONS.
- 4. A COPY OF THE APPROVED CONSTRUCTION PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- 5. ALL TRENCH BACKFILL SHALL BE COMPACTED TO 95 PERCENT DENSITY IN ROADWAYS, ROADWAY SHOULDERS, ROADWAY PRISM AND DRIVEWAYS, AND 85 PERCENT DENSITY IN UNPAVED AREAS. ALL PIPE ZONE COMPACTION SHALL BE 95 PERCENT..
- 6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ADEQUATE TEMPORARY TRAFFIC CONTROL TO ENSURE TRAFFIC SAFETY DURING CONSTRUCTION ACTIVITIES. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
- 7. MEASURES SHALL BE TAKEN BY THE DEVELOPER TO PROVIDE GROUND COVER IN AREAS WITHIN THE RIGHT-OF-WAY WHICH HAVE BEEN STRIPPED OF NATURAL VEGETATION OR HAVE A POTENTIAL FOR EROSION.
- 8. ANY EXISTING PUBLIC IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED PRIOR TO FINAL INSPECTION.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL PUBLIC STREETS FREE FROM MUD AND DEBRIS AT ALL TIMES.
- 10. ALL EXISTING ON-SITE STRUCTURES AND ASSOCIATED UTILITIES TO BE DEMOLISHED, REMOVED, AND/OR ABANDONED PER APPLICABLE JURISDICTIONAL REQUIREMENTS.
- 11. DEFICIENCIES, WHETHER CAUSED BY CONTRACTOR OPERATIONS OR NOT CAUSED BY THE CONTRACTOR'S OPERATIONS, SHALL BE REPAIRED
- 12. THE CONTRACTOR SHALL MAINTAIN ROADS AND STREETS ADJACENT TO THE PROJECT LIMITS WHEN AFFECTED BY THE CONTRACTOR'S OPERATIONS. THE CONTRACTOR SHALL REMOVE OR REPAIR ANY CONDITION RESULTING FROM THE WORK THAT MIGHT IMPEDE TRAFFIC OR CREATE A HAZARD. PUBLIC ROADWAYS SHALL BE BROOMED CLEAN AT THE END OF EACH WORK DAY.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF THE WORK COVERED BY THE CONTRACT.
- 14. ROCKERIES AND/OR RETAINING WALLS TO BE CONSTRUCTED PER GEOTECHNICAL AND/OR STRUCTURAL ENGINEER'S PLANS & SPECIFICATIONS.

DRAIN ACROSS

DRIVEWAY

TOP = 49.0

NEW ASPHALT ENTRY

11'-6" PVC @ 1.0% MIN.-

RIM=47.8± (MATCH FG)

IE(6")=46.0"

FULL WIDTH OF

13" FIR

NEW CONCRETE

DRIVEWAY.

SLIDING

CATCH BASIN-W/TURNDOWN ELBOW-

IE (4")=40.5'(W)

IE (6")=40.0'(S)

TOP = 43.0'

VEHICULAR GATE

#### ARCHITECTURAL, STRUCTURAL & GEOTECHNICAL NOTES

- 1. SPECIAL INSPECTIONS FOR GEOTECHNICAL AND/OR STRUCTURAL ASPECTS OF OF THE PROJECT MAY BE REQUIRED DURING VARIOUS STAGES OF THE PROECT. CONTRACTOR TO BE RESPONSIBLE FOR COORDINATION AND OBTAINING INSPECTIONS WHEN AND WHERE NECESSARY.
- 2. IF/WHEN APPLICABLE SEE ARCHITECTURAL PLANS FOR BUILDING SECTIONS AND ALL LOCATIONAL/DIMENSIONAL ASPECTS OF BUILDINGS.
- COORDINATE ALL SITE CIVIL CONSTRUCTION WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL/PLUMBING AND LANDSCAPE PLANS AND IN ACCORDANCE WITH GEOTECHNICAL

### **GRADING NOTES:**

- 1. ALL CUT MATERIAL GENERATED DURING THE PROJECT THAT IS NOT ACCEPTABLE FOR USE AS COMPACTED FILL MATERIAL AT ANOTHER LOCATION ON-SITE MUST BE HAULED TO AN APPROVED LOCATION OFF-SITE.
- 2. THE ON-SITE TOPOGRAPHICAL MAPPING WAS PROVIDED BY TERRANE.
- 3. ALL TEMPORARY OR PERMANENT SLOPES SHALL NOT EXCEED 2H:1V UNLESS APPROVED BY A GEOTECHNICAL ENGINEER.
- 4. FILL MATERIAL PLACED UNDER BUILDING FOUNDATIONS OR PAVEMENT SHALL BE CRUSHED BASE ROCK OR COMPACTED STRUCTURAL FILL IN ACCORDANCE TO WSDOT STANDARD SPECIFICATIONS.
- 5. ROCKERY AND/OR RETAINING WALLS GREATER THAN FOUR (4) FEET IN HEIGHT REQUIRES A

# FINISH GRADE WATERTIGHT PLUG-RISER PIPE LENGTH TO FI 45° BEND IF LINE DEAD ENDS, PIPE PER PLAN INSTALL PLUG NATIVE SOIL OR STRUCTURAL FILL -

**CLEANOUT DETAIL** 

NEW WALK

NEW WALK-

CARRIAGE HOUSE FF EL -

IE=42.0' EXISTING AREA DRAIN -

\_\_\_23'-4" PVC @ 6% 43,84

NEW CONCRETE

------

47'-6" PVC @ 1.1%---

YARD DRAIN (18" X 18") -

IE(6")=39.5'

RIM=44.0± (MATCH FG)

AUTO COURT

43.88'

TRENCH DRAIN

TOP MATCH FG

## BUILDING STAKING NOTE:

CONTRACTOR TO USE ARCHITECTURAL PLANS FOR ACCURATE LOCATION & CONSTRUCTION STAKING OF ALL SITE IMPROVEMENTS.

### **EXISTING** UTILITY NOTE:

LOCATION OF EXISTING UTILITIES SHOWN, IF ANY, IS APPROXIMATE AND MAY NOT BE ACCURATE OR ALL INCLUSIVE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO PROCEEDING WITH CONSTRUCTION. AGENCIES INVOLVED SHALL BE NOTIFIED WITHIN A REASONABLE TIME PRIOR TO THE START OF CONSTRUCTION.

# ESTIMATED EARTHWORK NOTE:

CUT: 225± CY FILL: 0± CY

EXISTING BUILDING

-NDS 4" LANDSCAPE AREA

-8'-4" PVC @ 6.8% EXISTING-

NDS 4" LANDSCAPE AREA RIM=33.85"

- NDS 4" LANDSCAPE AREA

DRAIN WITH BEEHIVE

-NDS 4" LANDSCAPE AREA

FX RESIDENCE

7450 N MERCER WAY

LOWER LEVEL

FF EL - 34.15

FF EL-44.15'

PROPOSED SPA-

FLOOR EL=34.08'

104'-6" PVC @ 9.1%—

AREA DRAIN

DRAIN WITH BEEHIVE

STRAINER

RIM = 43.5'

IE = 42.0'

-DRAIN WITH BEEHIVE

STRAINER

RIM = 43.5'

-8'-4" PVC @ 6.8%

-4'-6" PVC @ 6.8%

DRAIN WITH BEEHIVE

IE = 40.3'

STRAINER

IE=39.8'

NOTE: ALL DISCHARGES FROM

POOL AND SPA DRAIN/FILTER SYSTEMS TO BE CONNECTED

TO SANITARY SEWER. ANY OTHER DISCHARGE LOCATION

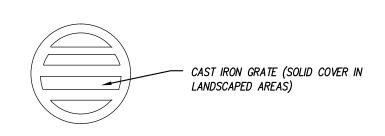
STRICTLY PROHIBITED

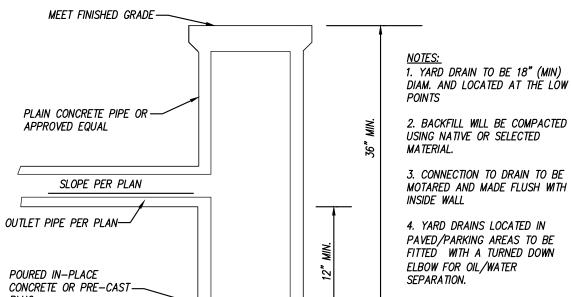
STRAINER

RIM = 43.5'

IE=41.5'

EXCESS CUT MATERIAL TO BE REMOVED FROM SITE TO AN APPROVED OFFSITE LOCATION (TBD).





N. T. S.

# YARD DRAIN

CONCRETE SURFACE,

-SLOT DRAIN

TOP = 32.5'

-BACKFLOW

VALVE

STAIRS

STAIRS

IE (6")=30.0"

YARD DRAIN (18" X 18")-

RIM=31.3±(MATCH FG)

**PREVENTER** 

—SLOT DRAIN⊙

TOP=31.26

PROPOSED POOL AREA

EL=32.32'

NEW WALK—

#### SURVEY NOTE:

EXISTING SURVEY FEATURES, BOUNDARY AND TOPOGRAPHIC DATA SHOWN ON THESE DRAWINGS HAS BEEN PREPARED. BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, LITCHFIELD ENGINEERING CANNOT ENSURE THE ACCURACY AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OF DATA/INFORMATION PROVIDED BY OTHERS, OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.

#### BASIS OF BEARINGS:

HELD BEARING OF N 00°03'00" W ALONG N-S LINE OF SEC. 1, T.24N., R.4.E., W.M. AS SHOWN HEREON AND PER MERCER ISLAND LOT LINE REVISION NO. MI 96-1381 IN VOL. 116 OF SURVEYS,

#### LEGAL DESCRIPTION:

LOT 9, BLOCK 2, MCGILVRA'S ISLAND ADDITION ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 16 OF PLATS, PAGE 58, IN KING COUNTY, WASHINGTON, THE EASTERLY BOUNDARY LINE OF WHICH IS ESTABLISHED BY JUDGMENT AND DECREE IN THE SUPERIOR COURT OF THE STATE OF WASHINGTON, CASE NUMBER 582636, DATED AUGUST 8, 1962, SAID BOUNDARY LINE BEING DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE SOUTH LINE, BLOCK 2, MCGILVRA'S ISLAND ADDITION, SAID POINT BEING WEST A DISTANCE OF 104.13 FEET FROM THE SOUTHEAST CORNER OF SAID BLOCK, THENCE NORTH 10'57'20" EAST 91.90 FEET, THENCE NORTH 3'09'00" EAST 9.30 FEET, THENCE NORTH 436 00" EAST 65.20 FEET. THENCE NORTH 9 06 00" EAST 38.00 FEET: THENCE NORTH 5 10 30" EAST 60.87 FEET, THENCE NORTH 7°45'36" EAST 118 FEET, MORE OR LESS, TO THE SHORE LINE OF LAKE WASHINGTON,

TOGETHER WITH SECOND CLASS SHORELANDS ADJOINING

SEWER NOTE: TV INSPECTION OF THE

EXISTING SIDE SEWER TO THE CITY LAKE

TV INSPECTION IS NOT IN SATISFACTORY CONDITION. AS DETERMINED BY THE CITY

OF MERCER ISLAND ISLAND INSPECTOR,

SEWER IS REQUIRED

-WALL FOOTING DRAIN, (TYP.)

@ 1.0% MIN.

RIM=26.4'

ELEV BOTTOM=27.0'

IE=24.8'

- SLOT DRAIN

EXISTING BUILDING

TOP = 31.26' \

-62'-6" PVC @ 8.4% ELEV TOP=28.0'

→ PLANTER

/ TW=27.75

— PLANTER

TW = 27.75'

THE REPLACEMENT OF THE EXISTING SIDE

SLOT DRAIN

TOP = 26.5'

RETAINING WALL W/4' FENCE

AROUND POOL ENCLOSURE

TW**≓2**7.75'

-YARD DRAIN (18" X 18")

- PROPOSED RETAINING WALL BY

LINE IS REQUIRED. IF THE RESULT OF THE

SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON.



VICINITY MAP NOT TO SCALE

SITE AREA:

FOUND NAIL GAS VALVE SOIL LOG/TEST PIT

SANITARY SEWER MANHOLE CATCH BASIN WATER METER

WETLAND FLAG → POWER METER AREA LIGHT

-O- POWER POLE

 $\underline{LEGEND}$ 

FOUND PIPE

SET HUB

SET PK NAIL

# PROJECT DATA

PROPERTY ADDRESS: 7450 NORTH MERCER WAY MERCER ISLAND, WASHINGTON 98040 TAX LOT NUMBER: 531510-0125 30,941 SF (0.71 ACRES) ZONING R-15 = RESIDENTIAL 15

### PROJECT TEAM

OWNER/ SEAN & LORI KELL DEVELÓPER 14033 SE 92ND STREET NEWCASTLE. WA 98059 CONTACT: SEAN KELL PHONE: (206) 954-3004

ARCHITECT: STILLWELL HANSON ARCHITECTS 46 ETRURIA STREET, SUITE 200

SEATTLE, WASHINGTON 98109 CONTACT: CRAIG STILLWELL PHONE: (206) 297-1504

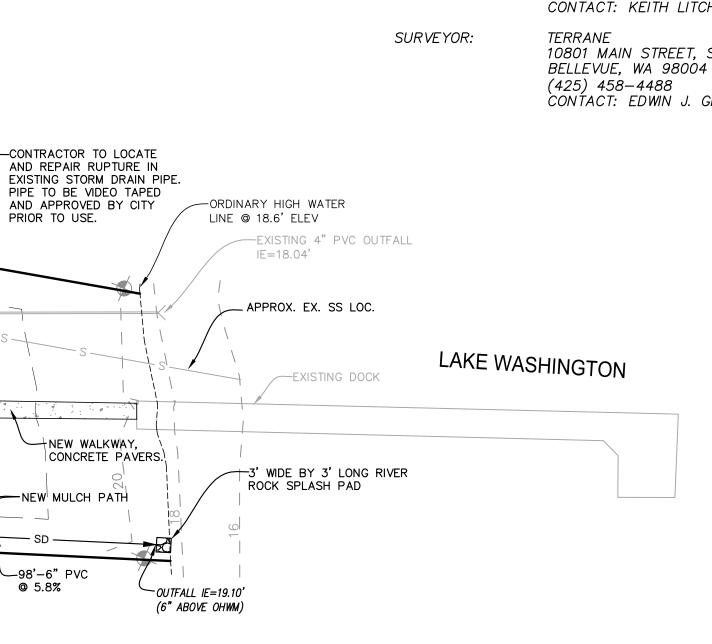
LITCHFIELD ENGINEERING CIVIL ENGINEER:

12840 81ST AVE NE KIRKLAND, WA 98034 (425) 821-5038

CONTACT: KEITH LITCHFIELD, PE

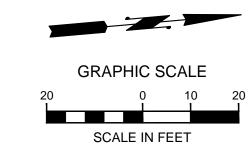
10801 MAIN STREET, STE 102

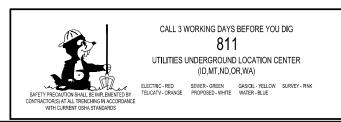
(425) 458-4488 CONTACT: EDWIN J. GREEN JR.



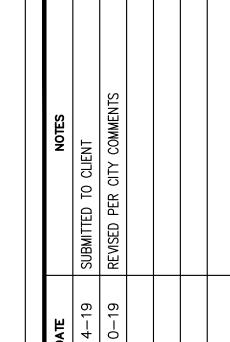
# SHEET INDEX

- 1. SITE IMPROVEMENT PLAN
- 2. TESC & SWPP PLAN





CITY OF MERCER ISLAND DEVELOPMENT SERVICES GROUP



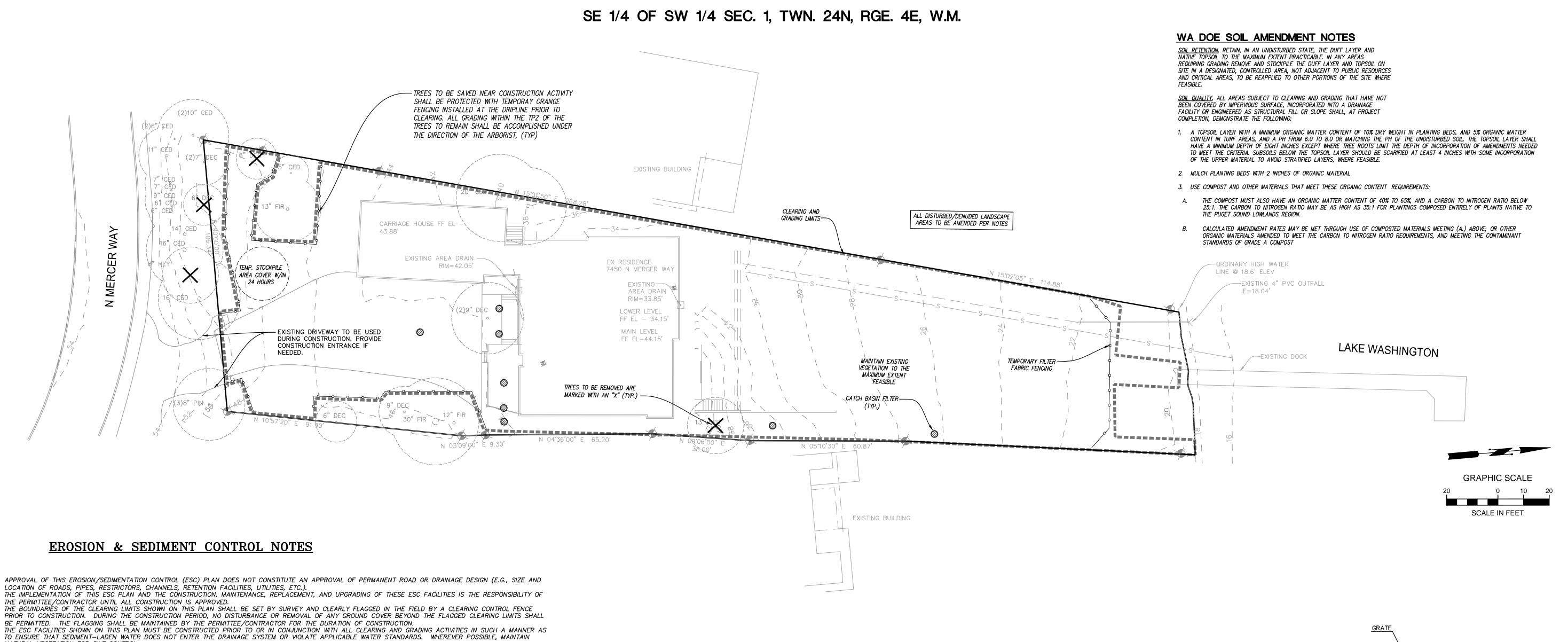
KEL

EERII ENGINI ITCHFIELD.

SITE

SHEET **1** of **2** 

JOB No.



- LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE PERMITTEE/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
- NATURAL VEGETATION FOR SILT CONTROL. 5. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED (E.G., ADDITIONAL SUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS.
- ADDITIONALLY, MORE ESC FACILITIES MAY BE REQUIRED TO ENSURE COMPLETE SILTATION CONTROL. THEREFORE, DURING THE COURSE OF CONSTRUCTION IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES OVER AND ABOVE THE MINIMUM REQUIREMENTS AS MAY BE NEEDED. . THE ESC FACILITIES SHALL BE INSPECTED BY THE PERMITTEE/CONTRACTOR DAILY DURING NON—RAINFALL PERIODS, EVERY HOUR (DAYLIGHT) DURING A RAINFALL EVENT, AND AT THE END OF EVERY RAINFALL, AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. IN ADDITION, TEMPORARY SILTATION PONDS AND ALL TEMPORARY SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED, PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL, AND THE POTENTIAL FOR EROSION HAS PASSED. WRITTEN RECORDS SHALL BE KEPT DOCUMENTING THE REVIEWS
- THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN 48 HOURS FOLLOWING A STORM EVENT. 8. ALL DENUDED SOILS MUST BE STABILIZED WITH AN APPROVED TESC METHOD (E.G. SEEDING, MULCHING, PLASTIC COVERING, CRUSHED ROCK) WITHIN THE FOLLOWING
- APRIL 1 TO OCTOBER 31 SOILS MUST BE STABILIZED WITHIN 7 DAYS OF GRADING. \* NOVEMBER 1 TO MARCH 31 — SOILS MUST BE STABILIZED WITHIN 2 DAYS OF GRADING.
- 9. AT NO TIME SHALL MORE THAN 1' OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT—LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- 10. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT. 11. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE PERMANENT FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION OR DISPERSION SYSTEM, THE FACILITY SHALL NOT BE USED AS A TEMPORARY SETTLING BASIN. NO UNDERGROUND DETENTION TANK, DETENTION VAULT, OR SYSTEM WHICH BACKS UNDER OR INTO A POND SHALL BE USED AS A TEMPORARY SETTLING BASIN.
- 12. WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMINATING GRASSES SHALL BE APPLIED AT AN APPROPRIATE RATE (EXAMPLE: ANNUAL OR PERENNIAL RYE APPLIED AT APPROXIMATELY 80 POUNDS PER ACRE).
- 13. WHERE STRAW MULCH IS REQUIRED FOR TEMPORARY EROSION CONTROL, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2". 14. ALL EROSION/SEDIMENTATION CONTROL PONDS WITH A DEAD STORAGE DEPTH EXCEEDING 6" MUST HAVE A PERIMETER FENCE WITH A MINIMUM HEIGHT OF 3'.
- 15. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF MERCER ISLAND STANDARDS AND SPECIFICATIONS.
- 16. THE ESC FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS ON THE APPROVED PLANS. LOCATIONS MAY BE MOVED TO SUIT FIELD CONDITIONS, SUBJECT TO APPROVAL BY THE ENGINEER AND THE CITY OF MERCER ISLAND INSPECTOR.
- 17. A COPY OF THE APPROVED EROSION CONTROL PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- 18. ALL LOTS ADJOINING OR HAVING ANY NATIVE GROWTH PROTECTION EASEMENTS (NGPE) SHALL HAVE A 4' HIGH TEMPORARY CONSTRUCTION FENCE (CYCLONE OR PLASTIC MESH) SEPARATING THE LOT (OR BUILDABLE PORTIONS OF THE LOT) FROM THE AREA RESTRICTED BY THE NGPE AND SHALL BE INSTALLED PRIOR TO ANY GRADING OR CLEARING AND REMAIN IN PLACE UNTIL A DWELLING IS CONSTRUCTED AND OWNERSHIP TRANSFERRED TO THE FIRST OWNER/OCCUPANT.
- 19. CLEARING LIMITS SHALL BE DELINEATED WITH A CLEARING CONTROL FENCE. THE CLEARING CONTROL FENCE SHALL CONSIST OF A 6-FT. HIGH CHAIN LINK FENCE ADJACENT THE DRIP LINE OF TREES TO BE SAVED, WETLAND OR STREAM BUFFERS, AND SENSITIVE SLOPES. CLEARING CONTROL FENCES ALONG WETLAND OR STREAM BUFFERS OR UPSLOPE OF SENSITIVE SLOPES SHALL BE ACCOMPANIED BY AN EROSION CONTROL FENCE. IF APPROVED BY THE CITY, A FOUR-FOOT HIGH ORANGE MESH CLEARING CONTROL FENCE MAY BE USED TO DELINEATE CLEARING LIMITS IN ALL OTHER AREAS.
- 20. OFF-SITE STREETS MUST BE KEPT CLEAN AT ALL TIMES. IF DIRT IS DEPOSITED ON THE PUBLIC STREET SYSTEM, THE STREET SHALL BE IMMEDIATELY CLEANED WITH POWER SWEEPER OR OTHER EQUIPMENT. ALL VEHICLES SHALL LEAVE THE SITE BY WAY OF THE CONSTRUCTION ENTRANCE AND SHALL BE CLEANED OF ALL DIRT THAT WOULD BE DEPOSITED ON THE PUBLIC STREETS. 21. ANY CATCH BASINS COLLECTING RUNOFF FROM THE SITE, WHETHER THEY ARE ON OR OFF THE SITE, SHALL HAVE THEIR GRATES COVERED WITH FILTER FABRIC DURING
- CONSTRUCTION. CATCH BASINS DIRECTLY DOWNSTREAM OF THE CONSTRUCTION ENTRANCE OR ANY OTHER CATCH BASIN AS DETERMINED BY THE CITY INSPECTOR SHALL BE PROTECTED WITH A "FILTER FABRIC SOCK" OR EQUIVALENT. 22. THE WASHED GRAVEL BACKFILL ADJACENT TO THE FILTER FABRIC FENCE SHALL BE REPLACED AND THE FILTER FABRIC CLEANED IF IT IS NONFUNCTIONAL BY EXCESSIVE
- SILT ACCUMULATION AS DETERMINED BY THE CITY OF KIRKLAND. ALSO, ALL INTERCEPTOR SWALES SHALL BE CLEANED IF SILT ACCUMULATION EXCEEDS ONE-QUARTER
- 23. ROCK FOR EROSION PROTECTION OF ROADWAY DITCHES, WHERE REQUIRED, MUST BE OF SOUND QUARRY ROCK, PLACED TO A DEPTH OF 1' AND MUST MEET THE FOLLOWING SPECIFICATIONS: 4"-8" ROCK/40%-70% PASSING; 2"-4" ROCK/30%-40% PASSING; AND 1"-2" ROCK/10%-20% PASSING.
- 24. IF ANY PART(S) OF THE CLEARING LIMIT BOUNDARY OR TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN IS/ARE DAMAGED, IT SHALL BE REPAIRED IMMEDIATELY. 25. ALL PROPERTIES ADJACENT TO THE PROJECT SITE SHALL BE PROTECTED FROM SEDIMENT DEPOSITION AND RUNOFF.
- 26. DO NOT FLUSH CONCRETE BY-PRODUCTS OR TRUCKS NEAR OR INTO THE STORM DRAINAGE SYSTEM. IF EXPOSED AGGREGATE IS FLUSHED INTO THE STORM SYSTEM, IT COULD MEAN RE-CLEANING THE ENTIRE DOWNSTREAM STORM SYSTEM, OR POSSIBLY RE-LAYING THE STORM LINE. 27. PRIOR TO OCTOBER 1 OF EACH YEAR (THE BEGINNING OF THE WET SEASON), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN

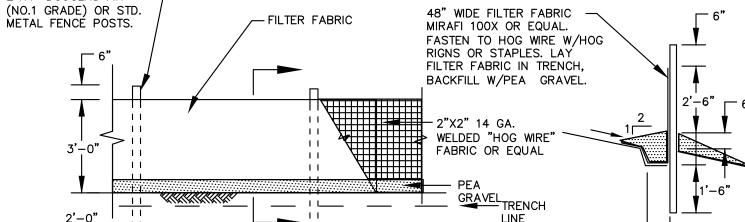
TO BE SEEDED AND THE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE PUBLIC WORKS CONSTRUCTION INSPECTOR. THE INSPECTOR CAN REQUIRE

PREPARATION FOR THE WINTER RAINS. THE IDENTIFIED DISTURBED AREA SHALL BE SEEDED WITHIN ONE WEEK AFTER OCTOBER 1. A SITE PLAN DEPICTING THE AREAS

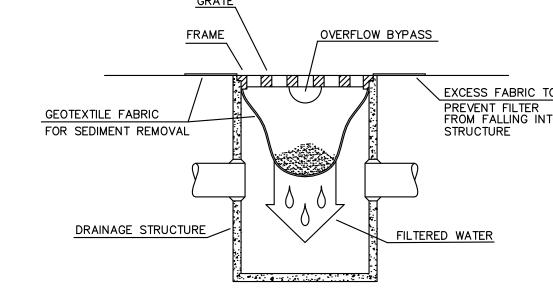
- SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES. 28. IF A SEDIMENT POND IS NOT PROPOSED, A BAKER TANK OR OTHER TEMPORARY GROUND AND/OR SURFACE WATER STORAGE TANK MAY BE REQUIRED DURING
- CONSTRUCTION, DEPENDING ON WEATHER CONDITIONS. 29. ANY AREA TO BE USED FOR INFILTRATION OR PERVIOUS PAVEMENT (INCLUDING A 5-FOOT BUFFER) MUST BE SURROUNDED BY SILT FENCE PRIOR TO CONSTRUCTION

AND UNTIL FINAL STABILIZATION OF THE SITE TO PREVENT SOIL COMPACTION AND SILTATION BY CONSTRUCTION ACTIVITIES.

2"X4" DOUGLAS FIR —



PLAN VIEW



STORM DRAIN PROTECTION INSERT

SECTION A-A

FILTER FABRIC FENCING

# CONSTRUCTION SEQUENCE SCHEDULE

A. CONDUCT PRE-CONSTRUCTION MEETING.

GRADING FOR PROJECT DEVELOPMENT.

B. FLAG OR FENCE CLEARING LIMITS. C. POST SIGN WITH NAME AND PHONE NUMBER OF TESC SUPERVISOR. D. INSTALL CATCH BASIN PROTECTION IF REQUIRED.

4'-0" O.C. MAX. (TYP.)

- E. GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).
- F. INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, G. CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND
- H. MAINTAIN EROSION CONTROL MEASURE IN ACCORDANCE WITH CITY OF MERCER ISLAND STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
- RELOCATE EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH THE CITY TESC MINIMUM REQUIREMENTS.
- STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING, CRUSHED ROCK OR EQUIVALENT. K. STABILIZE ALL AREAS THAT REACH FINAL GRADE WITHIN 7 DAYS. L. SEED OR SOD ANY AREAS TO REMAIN UNWORKED FOR MORE THAN

J. COVER ALL AREAS WITHIN THE SPECIFIED TIME FRAME WITH

M. UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS MUST BE STABILIZED AND BEST MANAGEMENT PRACTICES REMOVED IF

### SWPPP NOTE - MANAGEMENT OF THE PROJECT

IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO MANAGE THIS PROJECT AND COORDINATE WITH THE COUNTY INSPECTOR AND ENGINEER.

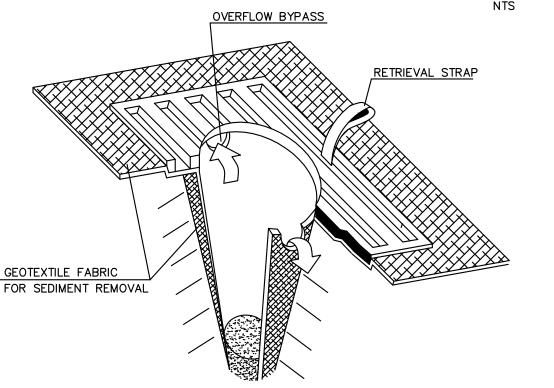
SITE INSPECTIONS SHALL BE DONE BY A PERSON WHO IS KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICES OF EROSION AND SEDIMENT CONTROL. THE PERSON MUST HAVE SKILLS TO FIRST ASSESS THE SITE CONDITIONS AND CONSTRUCTION ACTIVITIES THAT COULD IMPACT THE QUALITY OF STORMWATER, AND SECOND ASSESS THE EFFECTIVENESS OF EROSION AND SEDIMENT CONTROL MEASURES USED TO CONTROL THE QUALITY OF STORMWATER DISCHARGES.

WHENEVER INSPECTION AND/OR MONITORING REVEALS THAT THE BMPS IDENTIFIED IN THE CONSTRUCTION SWPPP ARE INADEQUATE, APPROPRIATE BMPS OR DESIGN CHANGES SHALL BE IMPLEMENTED AS SOON AS POSSIBLE.

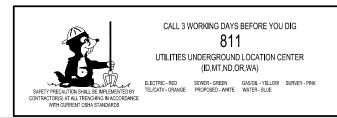
MAINTAINING AN UPDATED CONSTRUCTION SWPPP: THE CONSTRUCTION SWPPP SHALL BE RETAINED ON-SITE WHENEVER CONSTRUCTION IS UNDERWAY. ALTHOUGH NOT ANTICIPATED, THE SWPPP SHALL BE MODIFIED WHENEVER THERE IS A CHANGE IN THE DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE AT THE CONSTRUCTION SITE THAT HAS, OR

COULD HAVE, A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO WATERS OF THE STATE.

THE SWPPP SHALL BE MODIFIED IF, DURING INSPECTIONS OR INVESTIGATIONS CONDUCTED BY THE OWNER/OPERATOR, OR THE APPLICABLE LOCAL OR STATE REGULATORY AUTHORITY, IT IS DETERMINED THAT THE SWPPP IS INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS IN STORMWATER DISCHARGES FROM THE SITE. THE SWPPP SHALL BE MODIFIED AS NECESSARY TO INCLUDE ADDITIONAL OR MODIFIED BMPS DESIGNED TO CORRECT PROBLEMS IDENTIFIED. REVISIONS TO THE SWPPP SHALL BE COMPLETED WITHIN SEVEN DAYS FOLLOWING INSPECTION.



STORM DRAIN PROTECTION INSERT DETAIL NOT TO SCALE



CITY OF MERCER ISLAND DEVELOPMENT SERVICES GROUP

		NOTES	SUBMITTED TO CLIENT	REVISED PER CITY COMMENTS				
		DATE	3-14-19	7-10-19				
		СНКВ ВУ	KAL	KAL				

SHEET

2 of 2

#### ALTA/NSPS LAND TITLE SURVEY **BASIS OF BEARINGS** LEGAL DESCRIPTION LEGEND FOUND CASED CONCRETE MONUMENT TREE (TYPE, SIZE) HELD BEARING OF N 00°03'00" W ALONG N-S LINE OF SEC. 1, LOT 9, BLOCK 2, MCGILVRA'S ISLAND ADDITION ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 16 OF PLATS, PAGE 58, IN T.24N., R.4.E., W.M. AS SHOWN HEREON AND PER MERCER ISLAND FOUND REBAR & CAP / IRON PIPE FIRE HYDRANT KING COUNTY, WASHINGTON, THE EASTERLY BOUNDARY LINE OF LOT LINE REVISION NO. MI 96-1381 IN VOL. 116 OF SURVEYS, PG □ water meter WHICH IS ESTABLISHED BY JUDGMENT AND DECREE IN THE SUPERIOR BENCHMARK COURT OF THE STATE OF WASHINGTON, CASE NUMBER 582636, DATED AUGUST 8, 1962, SAID BOUNDARY LINE BEING DESCRIBED AS GAS METER M<sub>w∨</sub> Water valve FOLLOWS: REFERENCES GAS VALVE -X X FENCE (WIRE) BEGINNING AT A POINT ON THE SOUTH LINE, BLOCK 2, MCGILVRA'S MAIL BOX ——— FENCE (WOOD) ISLAND ADDITION, SAID POINT BEING WEST A DISTANCE OF 104.13 R1. RECORD OF SURVEY, VOL. 116, PG. 034. FEET FROM THE SOUTHEAST CORNER OF SAID BLOCK, THENCE RECORDS OF KING COUNTY, WASHINGTON. NORTH 10°57'20" EAST 91.90 FEET, THENCE NORTH 3°09'00" EAST ---- G --- GAS LINE 9.30 FEET, THENCE NORTH 4°36'00" EAST 65.20 FEET, THENCE AIR CONDITIONING UNIT NORTH 9°06'00" EAST 38.00 FEET; THENCE NORTH 5°10'30" EAST SURVEYOR'S NOTES 60.87 FEET, THENCE NORTH 7°45'36" EAST 118 FEET, MORE OR POWER HAND HOLE LESS, TO THE SHORE LINE OF LAKE WASHINGTON, POWER METER 1. THE SURVEY SHOWN HEREON WAS PERFORMED IN MARCH OF TOGETHER WITH SECOND CLASS SHORELANDS ADJOINING 2018. THE FIELD DATA WAS COLLECTED AND RECORDED ON POWER POLE MAGNETIC MEDIA THROUGH AN ELECTRONIC THEODOLITE. THE SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE DATA FILE IS ARCHIVED ON DISC OR CD. WRITTEN FIELD NOTES OF WASHINGTON. POWER TRANSFORMER BUILDING MAY NOT EXIST. SEWER CLEANOUT RETAINING WALL 2. ALL MONUMENTS SHOWN HEREON WERE LOCATED DURING THE SCHEDULE B ITEMS COURSE OF THIS SURVEY UNLESS OTHERWISE NOTED. ASPHALT SURFACE SEWER HAND HOLE 3. SUBJECT PROPERTY TAX PARCEL NO. 531510-0125. CONCRETE SURFACE SEWER MANHOLE 3. NOTICE OF TAP OR CONNECTION CHARGES WHICH HAVE BEEN OR WILL BE DUE IN CONNECTION WITH DEVELOPMENT OR 4. APPROXIMATE SUBJECT PROPERTY UPLAND AREA IS: AREA DRAIN ///// DECK / DOCK RE-DEVELOPMENT OF THE LAND AS DISCLOSED BY RECORDED 30,945 SQ FT +/- (0.71 ACRES)INSTRUMENT. INQUIRIES REGARDING THE SPECIFIC AMOUNT OF THE CUVERT SLATE SURFACE CHARGES SHOULD BE MADE TO THE CITY/COUNTY/AGENCY. 5. FIELD DATA FOR THIS SURVEY WAS OBTAINED BY DIRECT FIELD GRAVEL SURFACE CITY/COUNTY/AGENCY: CITY OF MERCER ISLAND CATCH BASIN (TYPE 1) MEASUREMENTS WITH A CALIBRATED ELECTRONIC 5-SECOND RECORDED: DECEMBER 6, 1977 TOTAL STATION AND/OR SURVEY GRADE GPS OBSERVATIONS. RECORDING NO.: 7712060812 ROCKERY CATCH BASIN (CURB INLET) S ALL ANGULAR AND LINEAR RELATIONSHIPS ARE ACCURATE AND (NOT SURVEY RELATED) MEET THE STANDARDS SET BY WAC 332-130-090. ITEM 5 - 10' SEWER ESM'T RFC NO 6430422 DRAINAGE MANHOLE 4. EASEMENT AND THE TERMS AND CONDITIONS THEREOF: 6. THE PROPERTY DESCRIBED HEREON IS THE SAME AS THE GRANTEE: MERCER ISLAND SEWER DISTRICT PROPERTY DESCRIBED IN CW TITLE COMPANY, COMMITMENT NO. PURPOSE: CONSTRUCT AND MAINTAIN 2 SEWER LINES LAID SIDE BY CK 40190740, WITH AN EFFECTIVE DATE OF JANUARY 29, 2018 SIDE IN SMALL TRENCH AND ALL NECESSARY APPURTENANCES AND THAT ALL EASEMENTS, COVENANTS AND RESTRICTIONS AREA AFFECTED: OVER PORTION SECOND CLASS SHORELANDS REFERENCED IN SAID TITLE COMMITMENT OR APPARENT FROM A RECORDED: JANUARY 18, 1956 PHYSICAL INSPECTION OF THE PROPERTY OR OTHERWISE KNOWN RECORDING NO.: 4655703 TO ME HAVE BEEN PLOTTED HEREON OR OTHERWISE NOTED AS (BLANKET IN NATURE, OVER 2ND CLASS SHORELANDS ADJOINING, TO THEIR EFFECT ON THE PROPERTY. NOT PLOTTABLE) 7. THE PROPERTY IS LOCATED WITHIN AN AREA HAVING A ZONE 5. EASEMENT AND THE TERMS AND CONDITIONS THEREOF: DESIGNATION "X", PER THE FEDERAL EMERGENCY MANAGEMENT GRANTEE: MUNICIPALITY OF METROPOLITAN SEATTLE AGENCY (FEMA), ON FLOOD INSURANCE RATE MAP NO. "NOT PURPOSE: SEWER TRUNK LINES WITH MANHOLES PRINTED", IN KING COUNTY, STATE OF WASHINGTON, WHICH IS AREA AFFECTED: A PORTION OF SAID PREMISES THE CURRENT FLOOD INSURANCE RATE MAP FOR THE RECORDED: NOVEMBER 06, 1968 COMMUNITY IN WHICH THE PROPERTY IS SITUATED. RECORDING NO.: 6430422 (PLOTTED) B. ZONING REPORT NOT PROVIDED PER ITEM 6 (a) ALTA/NSPS LAND TITLE SURVEY OPTIONAL SURVEY RESPONSIBILITIES AND 6. RESTRICTIVE COVENANT NONUSE OF ACCESSORY DWELLING UNIT SPECIFICATIONS AND THE TERMS AND CONDITIONS THEREOF: 9. THE TOTAL NUMBER OF STRIPED PARKING SPACES ON THE RECORDED: JANUARY 05, 2006 PROPERTY IS 2 (GARAGE), INCLUDING O DESIGNATED DISABLED RECORDING NO.: 20060105000287 7. INDEMNIFICATION AND HOLD HARMLESS AGREEMENT AND THE 10. THERE IS NO OBSERVED EVIDENCE OF CURRENT EARTH MOVING TERMS AND CONDITIONS THEREOF: WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS AT THE RECORDED: APRIL 6, 2009 RECORDING NO.: 20090406000391 (NOT SURVEY RELATED) 11. THERE WAS NO INFORMATION PROVIDED TO US BY THE CONTROLLING JURISDICTION OF PROPOSED CHANGES TO STREET 8. JOINT AGREEMENT FOR ADJACENT MOORAGE FACILITY AND BOAT RIGHT OF WAY LINES, NOR ANY OBSERVED EVIDENCE OF RECENT LIFT AND THE TERMS AND STREET OR SIDEWALK CONSTRUCTION OR REPAIRS AT THE TIME CONDITIONS THEREOF: OF OUR SURVEY. RECORDED: FEBRUARY 25, 2015 RECORDING NO.: 20150225001395 12. THERE WAS NO OBSERVED EVIDENCE OF WETLANDS OR WETLAND (AGREEMENT FOR DOCK, BLANKET IN NATURE, NOT PLOTTABLE) DELINEATION MARKERS FOUND AT THE TIME OF OUR SURVEY. 9. LOCATION OF LATERAL BOUNDARIES OF SECOND CLASS SHORELANDS UNDEFINABLE PER ITEM 12, SCHEDULE B S LOT 9 LOT 8 **LOT 10** Щ VERTICAL DATUM NAVD88 PER GPS OBSERVATIONS SITE BENCHMARK IN ASPHALT DRIVEWAY NEAR SOUTH END OF LOT AS SHOWN ON DRAWING MASONRY NAIL IN ASPHALT ELEV=52.44' VICINITY MAP N.T.S. N 90°00'00" E 104.18' CALC'D **≻** 30.00' ∕ (104.13' PER LEGAL) N. MERCER WAY SURVEYOR'S CERTIFICATE JOB NUMBER: 3/27/18 FOUND CONC MON W/ TACK IN LEAD RLS DRAFTED BY: TO: SEAN DAVIS KELL & LORI ANN KELL AND FIRST AMERICAN TITLE IN CASE, DOWN 0.9' COMPANY; EJG/TMM CHECKED BY. N.T.S. THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 REVISION HISTORY MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6(a), 7(a), 7(b)(1), 7(c), SE 22nd St 8, 9, 11, 13, AND 16, OF TABLE A, THEREOF. THE FIELD WORK WAS COMPLETED ON MARCH 19, 2018. **CONTROL MAP** FOUND CONC MON W/ TACK IN LEAD~ IN CASE, DOWN 0.9' 12/05/18 SHEET NUMBER EDWIN J. GREEN JR. CERTIFICATE NO. 15025 DATE 1 OF 2

