

LBH RESIDENCE

7450 North Mercer Way
Mercer Island, Washington

EXTERIOR PERMIT SET August 20, 2019

ARCHITECTURAL	CIVIL	STRUCTURAL
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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
- 2011 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 R311.1)

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 treated.

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 weather.

MP-2 (2015 IRC R406) CRAWLSPACE VENTILATION

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

Provide 1 sf of net free vent area for each 1500 sf of crawlpace 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 1 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.

All rafter bays to be ventilated.

FIRE PROTECTION

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 1 3/8" 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 211 and installed in accordance with the provisions of the IRC and the household fire warning equipment provisions of NFPA 72.

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

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 R315.12) 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 garages.

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.

FP-10 (2015 IRC R315.11) CARBON MONOXIDE ALARM REQUIREMENTS

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 switch than those required for overcurrent protections.

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

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 covered 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 R1003.15

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

SAFETY AND SECURITY

SS-1 (2015 IRC R308.4) SAFETY GLAZING - HAZARDOUS LOCATIONS

Provide safety glazing in the following locations

- Glazing in swinging doors

- 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 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 edge.

-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)

SS-2 (2015 IRC R310.12.3.4) 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"

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

Not less than one exit door shall be provided.

Minimum size of 32" x 18"

SS-4 (2015 IRC R311.7) STAIRWAYS

WIDTH

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

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.

RISER HEIGHT

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 & narrowest treads shall not exceed 3/8".

NOISING

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

HANDRAIL

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

HANDRAIL HEIGHT

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

HANDRAIL CONTINUITY

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 turned 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).

SS-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 guards a minimum height of 34" above nosings.

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

BATHROOM NOTES

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" x 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

EC-1 CODE

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 402.11

Penetration U-Factor: (Vertical windows & doors): 0.28

Skylight U-Factor (Overhead): 0.50

Penetration SHGC NR

Ceiling Insulation: R-49 or R-38 adv

Vaulted Ceiling Insulation: R-38

Wood framed wall insulation (above grade): R-21 int (R-21 cavity + R-10 insulated headers)

Mass Wall Insulation: R-21

Wall Insulation (interior below grade): R-15 continuous or

R-21 cavity + R5 thermal break between slab & basement wall

R-10 continuous

R-30

Floor Insulation: R-10 (First 24")

Slab on Grade Insulation: R-10 continuous

Heated Slab on Grade Insulation: R-10 continuous

See Table 402.11 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.

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

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 R303.13) 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 402.4.11) 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. Ground cover can be omitted if crawlspaces have a concrete slab with a minimum thickness of 3-1/2".

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 0.3 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 402.4.12) AIR LEAKAGE TESTING

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 posted on the Residential Energy Compliance Certificate.

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

VC-1 CODE

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

VC-2 (2015 IRC Section M1507) 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.

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

VC-3 (2015 IRC Section M1507.3) WHOLE HOUSE MECHANICAL VENTILATION

Whole-house mechanical ventilation systems shall be designed in accordance with sections M1507.3 through M1507.3.3.

- Integrated whole house ventilation systems shall provide outdoor air at a continuous rate of not less than that determined in accordance with Table M1507.3.1.

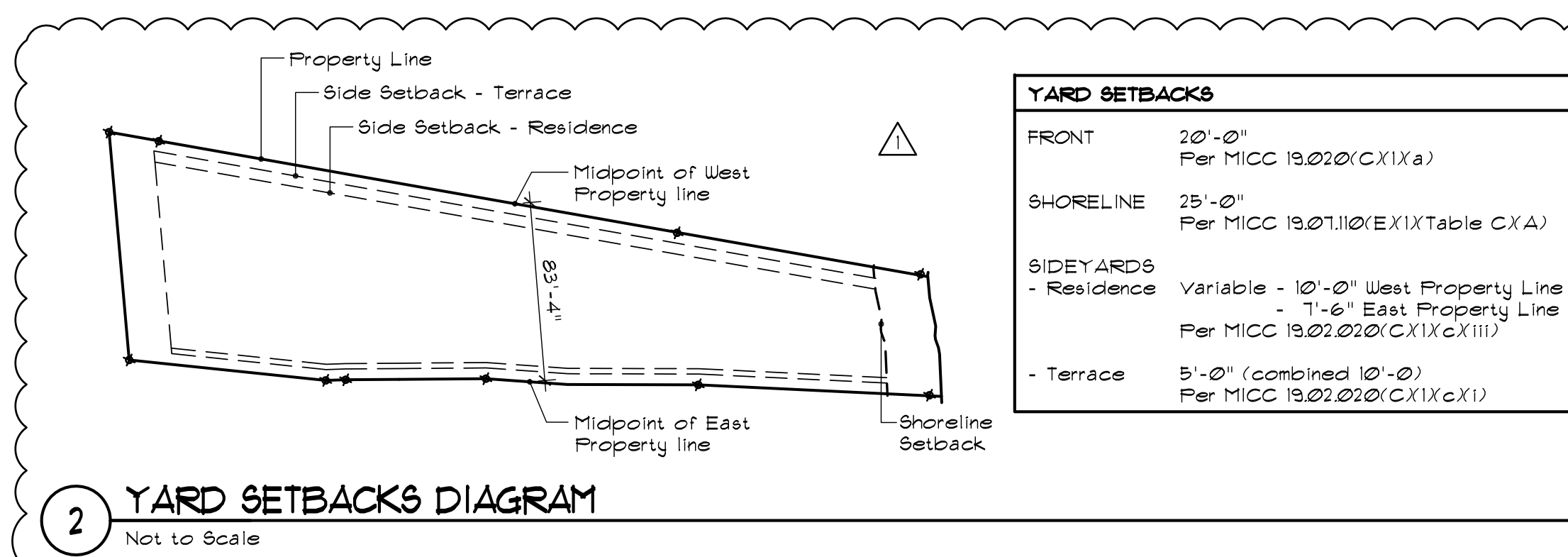
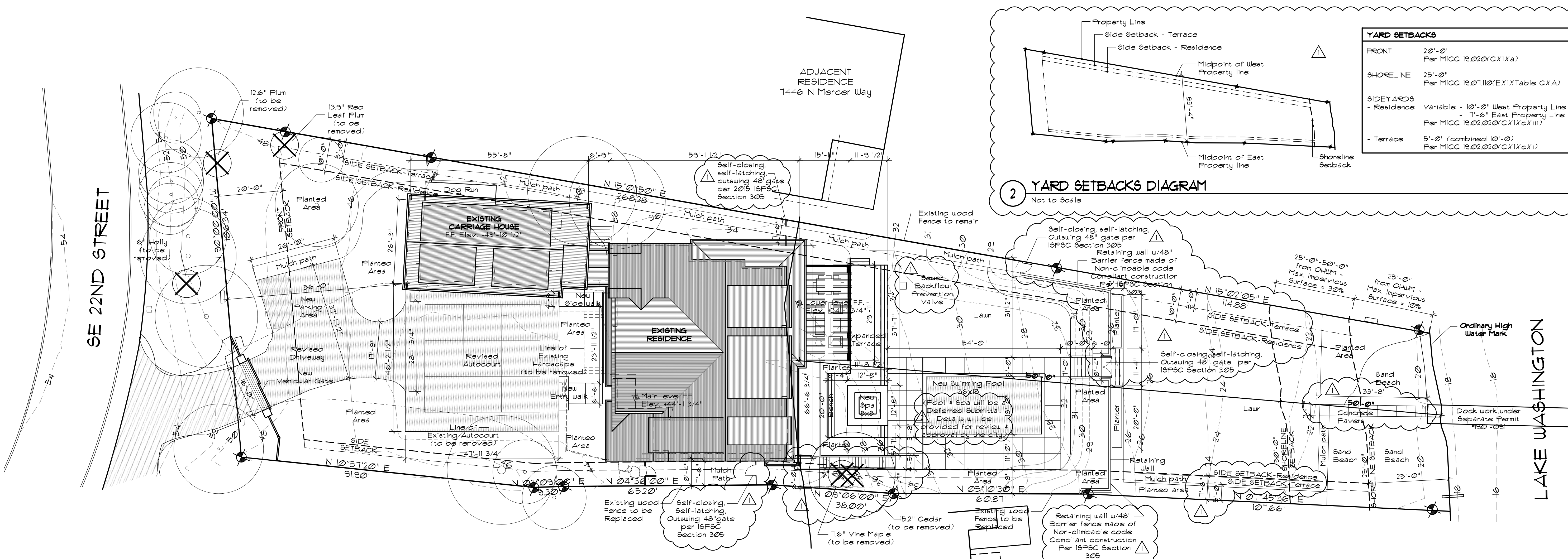
- Whole House mechanical ventilation system to operate intermittently with controls that enable operation for not less than 25-percent of each 4-hour segment and the ventilation rate prescribed in Table M1507.3.3(1) is multiplied by the factor determined in accordance with Table M1507.3.3(2).

- 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 handler.

- The outdoor air inlet duct connection to the return air stream shall be located upstream of the forced-air system

<p>VICINITY MAP</p> <p>Not to Scale</p>	<p>PROJECT DATA</p> <p>OWNER Sean & Lori Kell 14033 SE 92nd Street Newcastle, Washington 98059 (206) 954-3004 Phone CONTACT: Sean Kell sean_kell@yahoo.com</p> <p>ARCHITECT Stillwell Hanson Architects 46 Etruria Street Suite 200 Seattle, Washington 98109 CONTACT: Craig Stillwell craig@stillwellhanson.com Email</p> <p>STRUCTURAL ENGINEER Swenson 5&y Faget 2124 3rd Avenue Suite 100 Seattle, WA 98121 (206) 443-6212 Phone CONTACT: Dan 5&y ds5y@swensonsyfaget.com Email</p> <p>CONTRACTOR Hoxie Huggins Construction 46 Etruria Street #202 Seattle, Washington 98109 (206) 456-5266 ext-101 CONTACT: Rob Hoxie rob@hoxiehuggins.com Email</p>	<p>PROPERTY DATA</p> <p>PROJECT ADDRESS 1450 North Mercer Way Mercer Island, Washington 98040</p> <p>ZONING DESIGNATION R-15</p> <p>HEIGHT LIMIT 30'-0"</p> <p>SETBACKS Front (South) 20'-0" Side - Structural (West) Variable 10'-0" Side - Structural (East) Variable 7'-6" Side - Terrace (Combined 10'-0") Variable 5'-0" Rear (North) from OHW Line 25'-0"</p> <p>LOT AREA 30,945 sq ft (per Survey)</p> <p>ASSESSOR'S TAX NUMBER 531510-0125</p> <p>LEGAL DESCRIPTION MC GILVERAS ISLAND ADD ALL 9 & POR OF 10 WLY OF FOLG LN- BEG AT PT ON S LN BLK 2 DIST 104.18 FT W FRM SE COR OF SD BLK TH N 10 DEG 51'11" MIN 20 SEC E 91.90 FT TH N 03 DEG 09 MIN 00 SEC E 93.0 FT TH N 04 DEG 36 MIN 00 SEC E 65.20 FT TH N 03 DEG 06 MIN 00 SEC E 38 FT TH N 05 DEG 10 MIN 30 SEC E 60.81 FT TH N 01 DEG 45 MIN 36 SEC E 118 FT M/L TO SH LN OF LK WASH & 2ND CL SH LDBS ADJ</p>	<p>CONSTRUCTION DATA</p> <p>SCOPE OF WORK Lower level covered porch expansion, revised driveway configuration and new in-ground swimming pool & spa with terrace. No new conditioned space.</p> <p>AREA SUMMARY Conditioned Space Existing Lower Level 1,736 sq ft Existing Main Level 4,302 sq ft Existing Upper Level 3,082 sq ft New Upper Level-under Permit #012-083 33 sq ft Total 9,153 sq ft</p> <p>AVERAGE BUILDING ELEVATION (ABE) DETERMINATION Refer to Detail 1, Sheet A-012</p> <p>GROSS FLOOR AREA (GFA) DIAGRAMS & SUMMARY Refer to Detail 2, Sheet A-012</p> <p>LOT COVERAGE & IMPERVIOUS SURFACES DIAGRAM Refer to Detail 2, Sheet A-013</p> <p>SHORELAND DEVELOPMENT STANDARDS DIAGRAM Refer to Detail 1, Sheet A-013</p>	<p>ENERGY DATA</p> <p>ENERGY CREDIT All work to comply with 2015 Washington State Energy Code (WSEC) - Climate Zone: 4C (Marine) - Compliance Path: Mandatory & Prescriptive</p> <p>ENERGY CODE DATA SHEET Refer to Table R402.11 and General Notes, Sheet A-01, for building envelope requirements.</p> <p>ADDITIONAL ENERGY EFFICIENCY REQUIREMENTS Per 2015 WSEC R402.22 Additional Energy efficiency requirements, no increase in conditioned space, thus no required energy efficiency requirements.</p>
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LEGEND

SYMBOL	DESCRIPTION
---	CONTOUR - EXISTING
---	CONTOUR - PROPOSED
---	HARDSCAPE - HARDSCAPE (to be removed)

TREE INFORMATION

Site Plan shows trees proposed for removal (total of 5). Refer to Landscape Plan (L5-2.0 & L5-2.1), Planting Schedule & Notes (L5-2.2), Tree Inventory, Protection & Removal Plan (L5-1.0), and Survey for more details.

LANDSCAPING

Refer to Landscape Plan (L5-2.0 & L5-2.1) and Planting Schedule & Notes (L5-2.2) for details on planted areas, planters, pathways, and beach area.

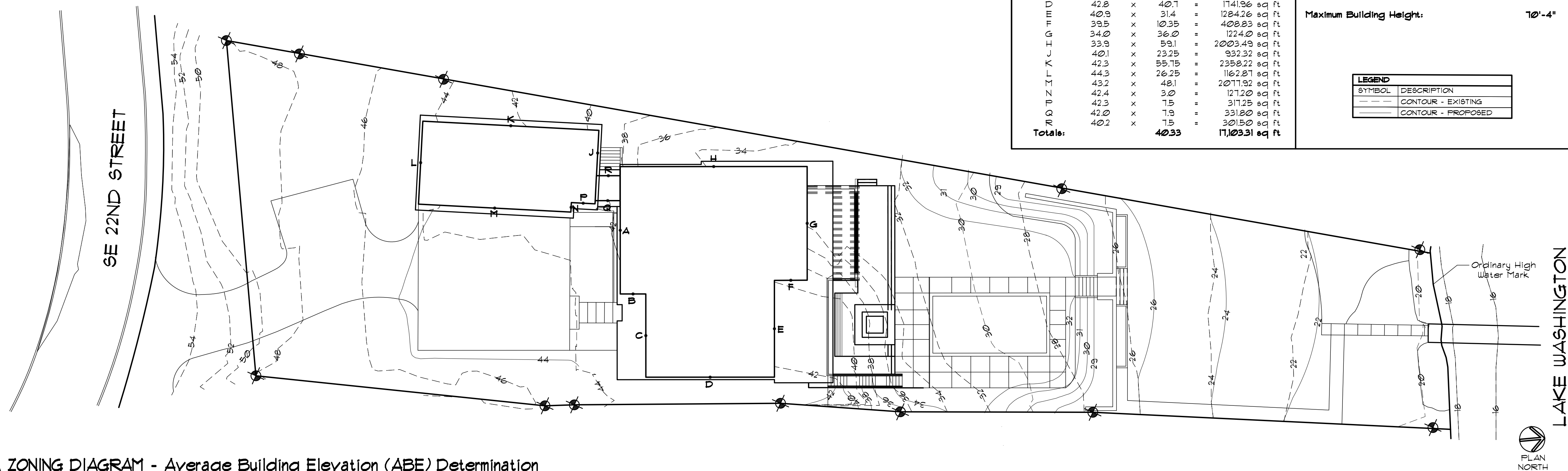
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APPROVED BY
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REVISIONS
CORRECTION #1
June 15, 2019
CORRECTION #2
August 20, 2019

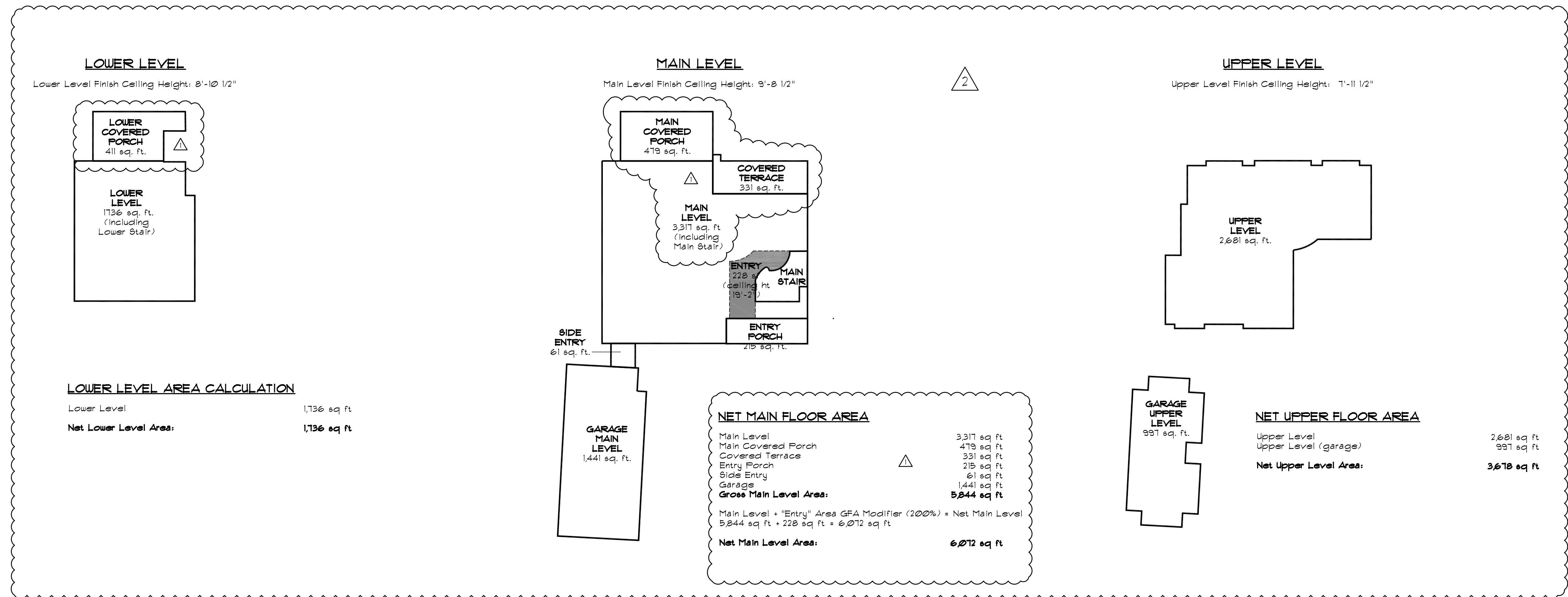
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MERCER ISLAND, WASHINGTON

7392 REGISTERED ARCHITECT
CRAIG J. STILLWELL
STATE OF WASHINGTON



1 ZONING DIAGRAM - Average Building Elevation (ABE) Determination
Scale 1" = 20'



2 ZONING DIAGRAM - Gross Floor Area (GFA) Diagrams & Summary
Scale 1" = 20'

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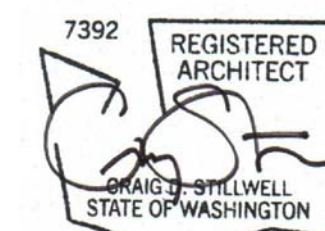
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CORRECTION #2
August 5, 2019

STILLWELL HANSON ARCHITECTS

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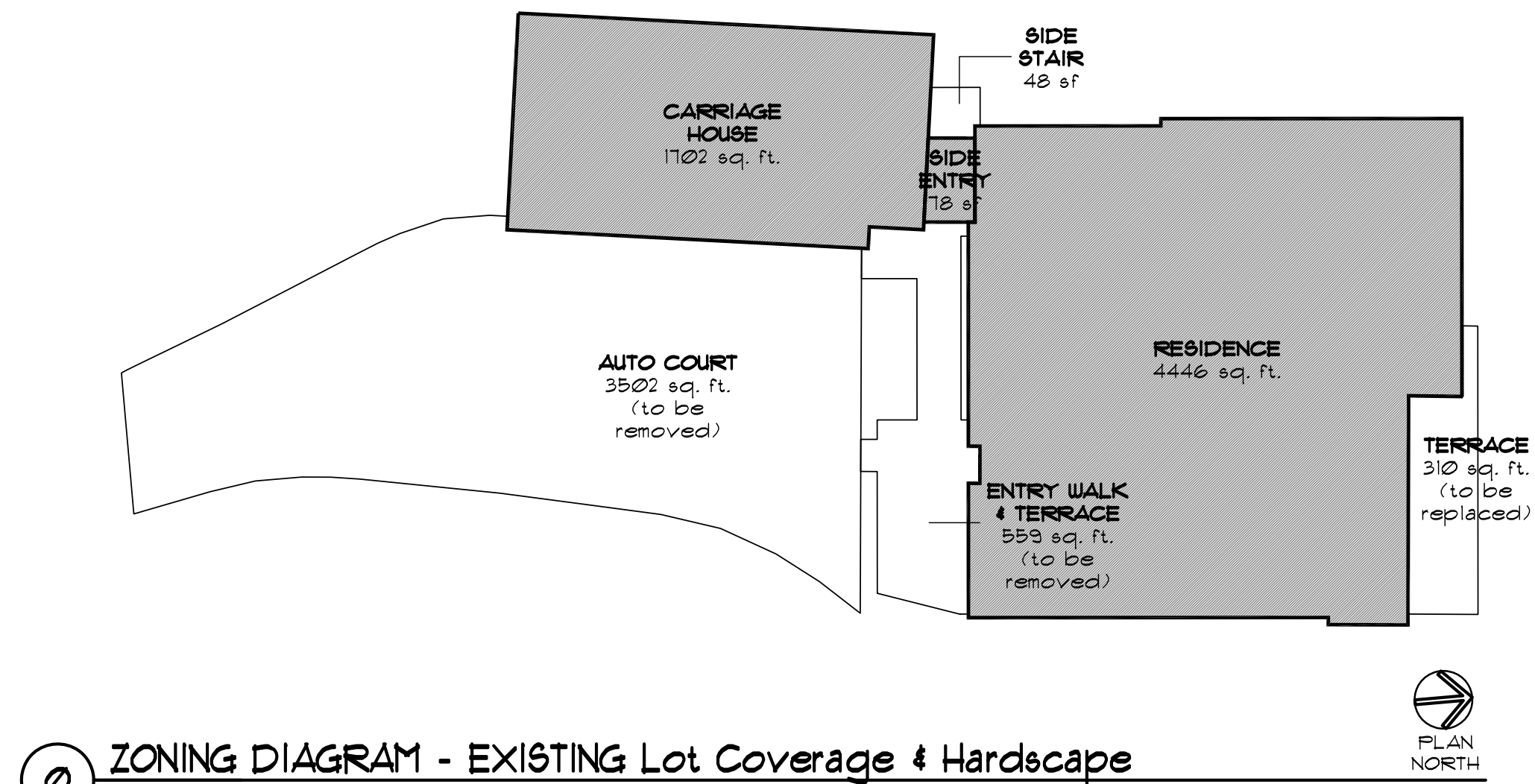
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ZONING DIAGRAMS

A-1.2

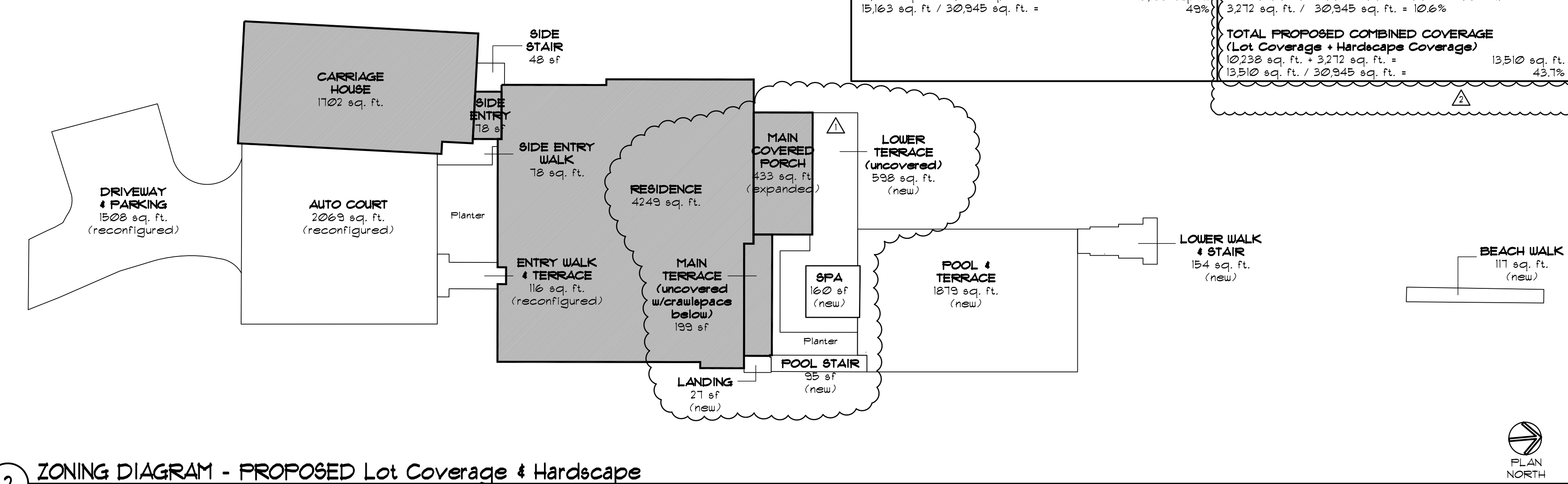


EXISTING LOT # HARDSCAPE COVERAGE	
EXISTING LOT # HARDSCAPE COVERAGE	
Lot Coverage	
Residence	4,446 sq. ft.
Side Entry	78 sq. ft.
Carriage House	1,702 sq. ft.
Auto Court	3,502 sq. ft.
Total	9,728 sq. ft.
TOTAL EXISTING LOT COVERAGE	
9,728 sq. ft. / 30,945 sq. ft. = 31.4%	
Hardscape Coverage	
Side Stair	559 sq. ft.
Entry Walk & Terrace	147 sq. ft.
Terrace	310 sq. ft.
Total	1,016 sq. ft.
TOTAL EXISTING HARDSCAPE COVERAGE	
1,016 sq. ft. / 30,945 sq. ft. = 3.3%	
TOTAL EXISTING COMBINED COVERAGE (Lot Coverage + Hardscape Coverage)	
9,728 sq. ft. + 1,016 sq. ft. = 10,744 sq. ft. 10,744 sq. ft. / 30,945 sq. ft. = 34.7%	

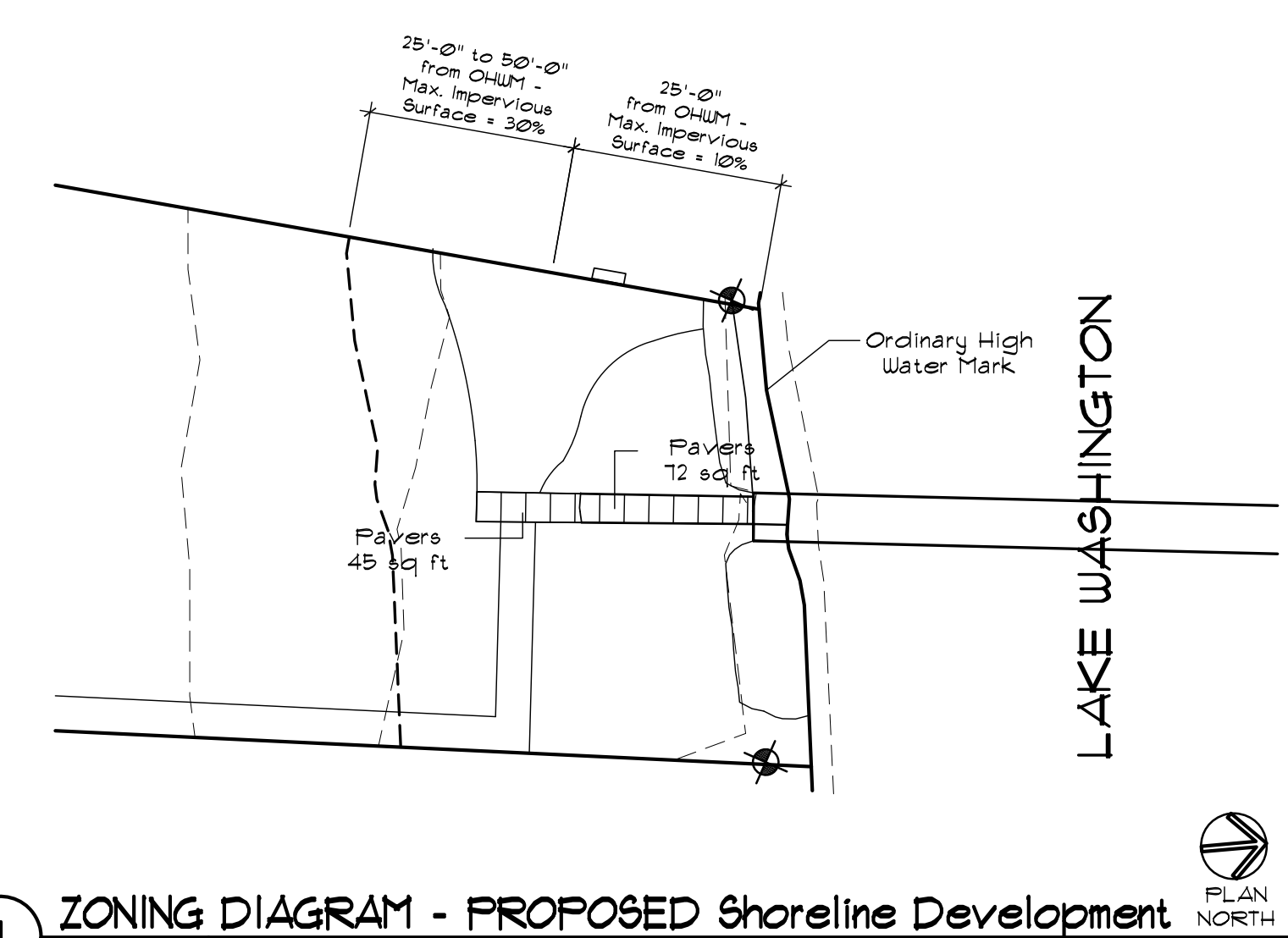
1 ZONING DIAGRAM - EXISTING Lot Coverage & Hardscape
Scale 1" = 20'

SHORELINE DEVELOPMENT STANDARDS	
MICC 19.071 E. Shoreline Development Standards. Waterfront lot - Impervious surface limitations.	
0' to 25' Shoreline Setback	
Total Area = 1,462 sq. ft.	1,462 sq. ft.
Impervious Surface Limitation: 10% x 1,462 sq. ft.	
Impervious Surface Proposed:	
Pavers	72 sq. ft.
Total Impervious Surface Proposed:	72 sq. ft.
25' to 50' Shoreline Setback	
Total Area = 1,453 sq. ft.	435.9 sq. ft.
Impervious Surface Limitation: 30% x 1,453 sq. ft.	
Impervious Surface Proposed:	
Pavers	45 sq. ft.
Total Impervious Surface Proposed:	45 sq. ft.

PROPOSED LOT COVERAGE # HARDSCAPE CALCULATIONS	
MICC 19.02.020 F. 3. a. Lot Coverage - Landscaping Required. Minimum area required for single family dwelling shall provide the minimum landscaping area based on the net lot area and lot slope.	
LOT COVERAGE (Building & Driving Areas)	
Lot Slope:	8 %
Maximum Lot Coverage:	40 %
Landscaping Area Required:	60 %
Gross Lot Area:	30,945 sq. ft.
Net Lot Area:	30,945 sq. ft.
Maximum Lot Coverage	12,378 sq. ft.
40 % x 30,945 sq. ft.	
Required Landscaping Area	18,567 sq. ft.
60 % x 30,945 sq. ft.	
HARDSCAPE COVERAGE	
Lot Slope:	8 %
Maximum Lot Coverage:	9 %
Net Lot Area:	30,945 sq. ft.
9 % x 30,945 sq. ft.:	2,785 sq. ft.
TOTAL COMBINED COVERAGE ALLOWED (Lot Coverage + Hardscape Coverage)	15,163 sq. ft. / 30,945 sq. ft. = 49%
PROPOSED LOT # HARDSCAPE COVERAGE	
Lot Coverage	4,249 sq. ft.
Residence	433 sq. ft.
Main Covered Porch	199 sq. ft.
Side Entry	78 sq. ft.
Carriage House	1,702 sq. ft.
Auto Court	2,069 sq. ft.
Driveway & Parking	15,028 sq. ft.
Total	10,238 sq. ft.
TOTAL PROPOSED LOT COVERAGE	
10,238 sq. ft. / 30,945 sq. ft. = 33.0%	
Hardscape Coverage	
Pool & Terrace	1,879 sq. ft.
Lower Terrace	598 sq. ft.
Spa	160 sq. ft.
Pool Stair	95 sq. ft.
Landing	27 sq. ft.
Lower Walk & Stair	154 sq. ft.
Beach Walk	117 sq. ft.
Side Entry Walk	78 sq. ft.
Side Stair	48 sq. ft.
Entry Walk	116 sq. ft.
Total	3,272 sq. ft.
TOTAL PROPOSED HARDSCAPE COVERAGE	
3,272 sq. ft. / 30,945 sq. ft. = 10.6%	
TOTAL PROPOSED COMBINED COVERAGE (Lot Coverage + Hardscape Coverage)	
10,238 sq. ft. + 3,272 sq. ft. = 13,510 sq. ft. / 30,945 sq. ft. = 43.7%	



2 ZONING DIAGRAM - PROPOSED Lot Coverage & Hardscape
Scale 1" = 20'



1 ZONING DIAGRAM - PROPOSED Shoreline Development
Not to Scale

DRAWN BY
DESIGN BY
CHECKED BY
APPROVED BY

DATE
April 1, 2019

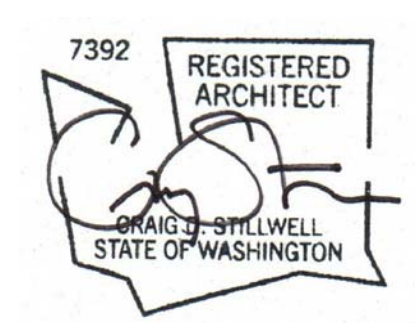
REVISIONS
CORRECTION #1
July 10, 2019
CORRECTION #2
August 5, 2019

STILLWELL HANSON ARCHITECTS

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

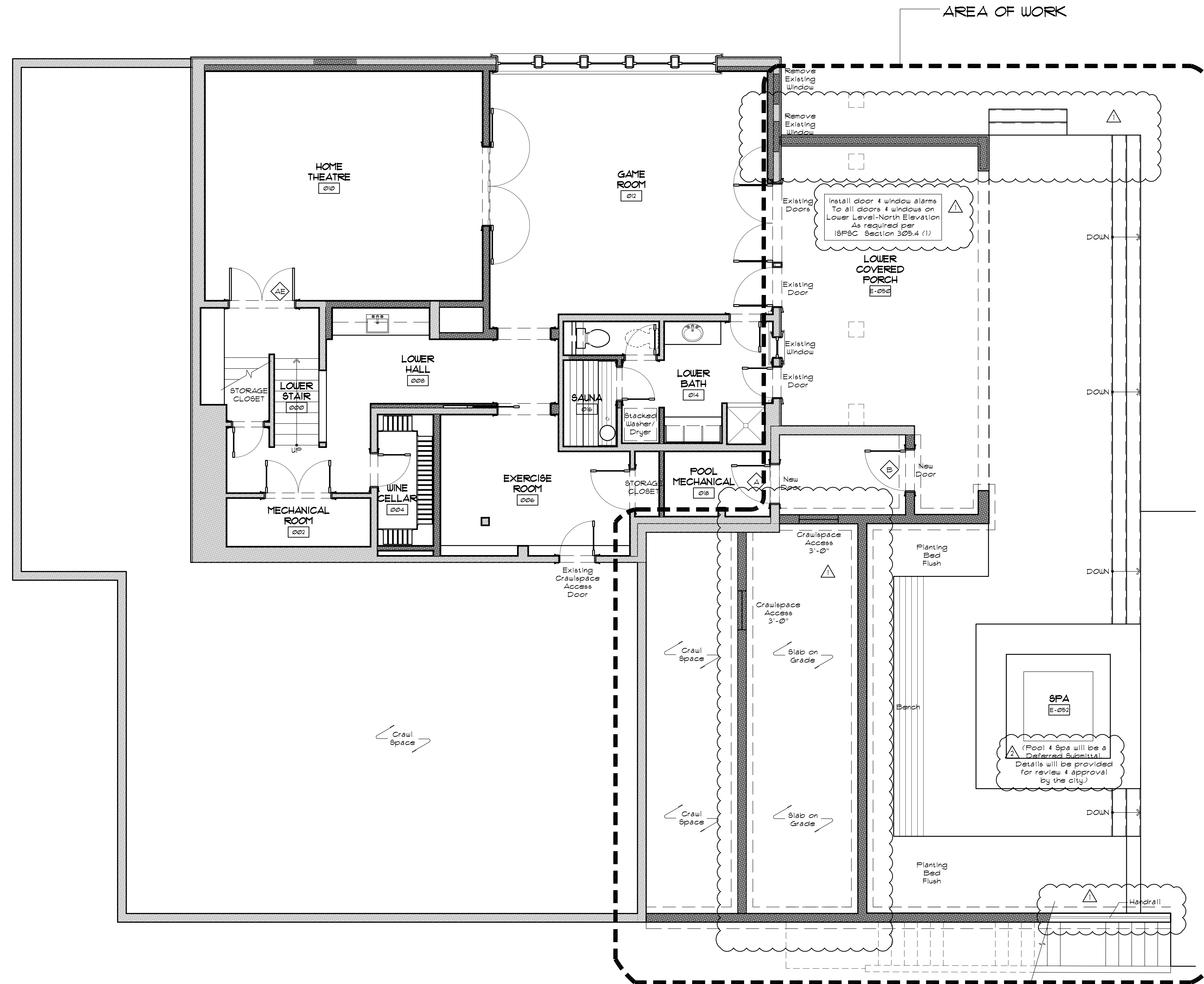
LBH RESIDENCE

7450 NORTH MERCER WAY
MERCER ISLAND, WASHINGTON



ZONING DIAGRAMS

A-1.3



FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	New Walls to be Constructed
	Existing Walls to Remain
	Existing Walls to be Demolished

DRAWN BY

DESIGN BY

CHECKED BY

APPROVED BY

DATE

April 1, 2019

REVISIONS

CORRECTIONS #1

July 10, 2019

CORRECTIONS #2

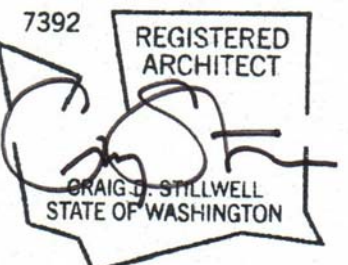
August 20, 2019

STILLWELL HANSON ARCHITECTS

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

LBH RESIDENCE

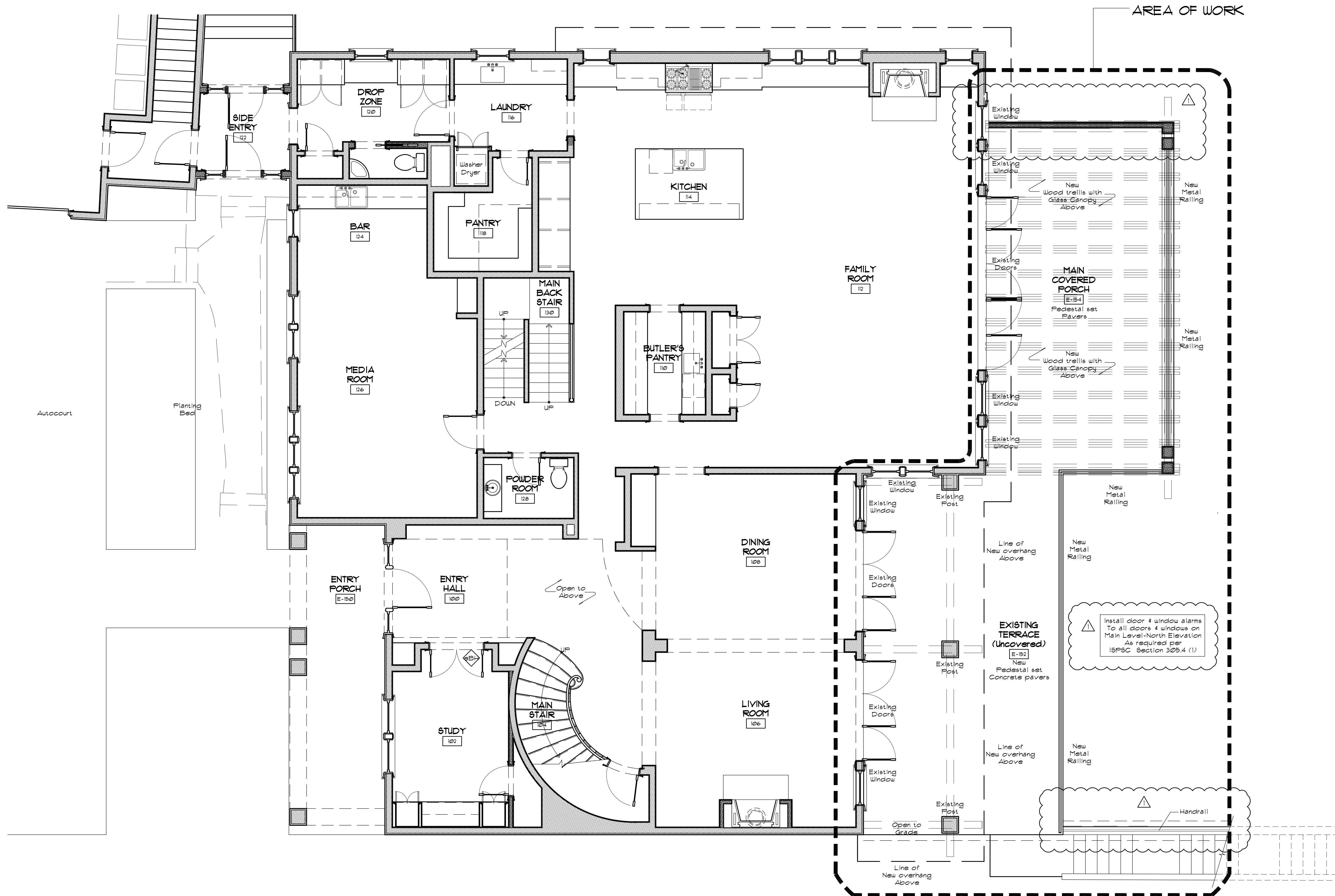
7450 NORTH MERCER WAY
MERCER ISLAND, WASHINGTON



FLOOR PLAN LOWER LEVEL

A-2.1





FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	New Walls to be Constructed
	Existing Walls to Remain
	Existing Walls to be Demolished

DRAWN BY

DESIGN BY

CHECKED BY

APPROVED BY

DATE

April 1, 2019

REVISIONS

CORRECTIONS #1

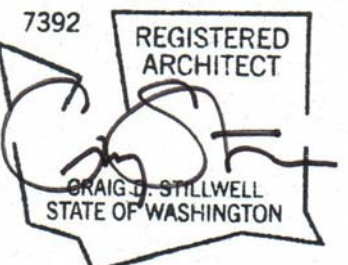
July 10, 2019

STILLWELL HANSON ARCHITECTS

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

LBH RESIDENCE

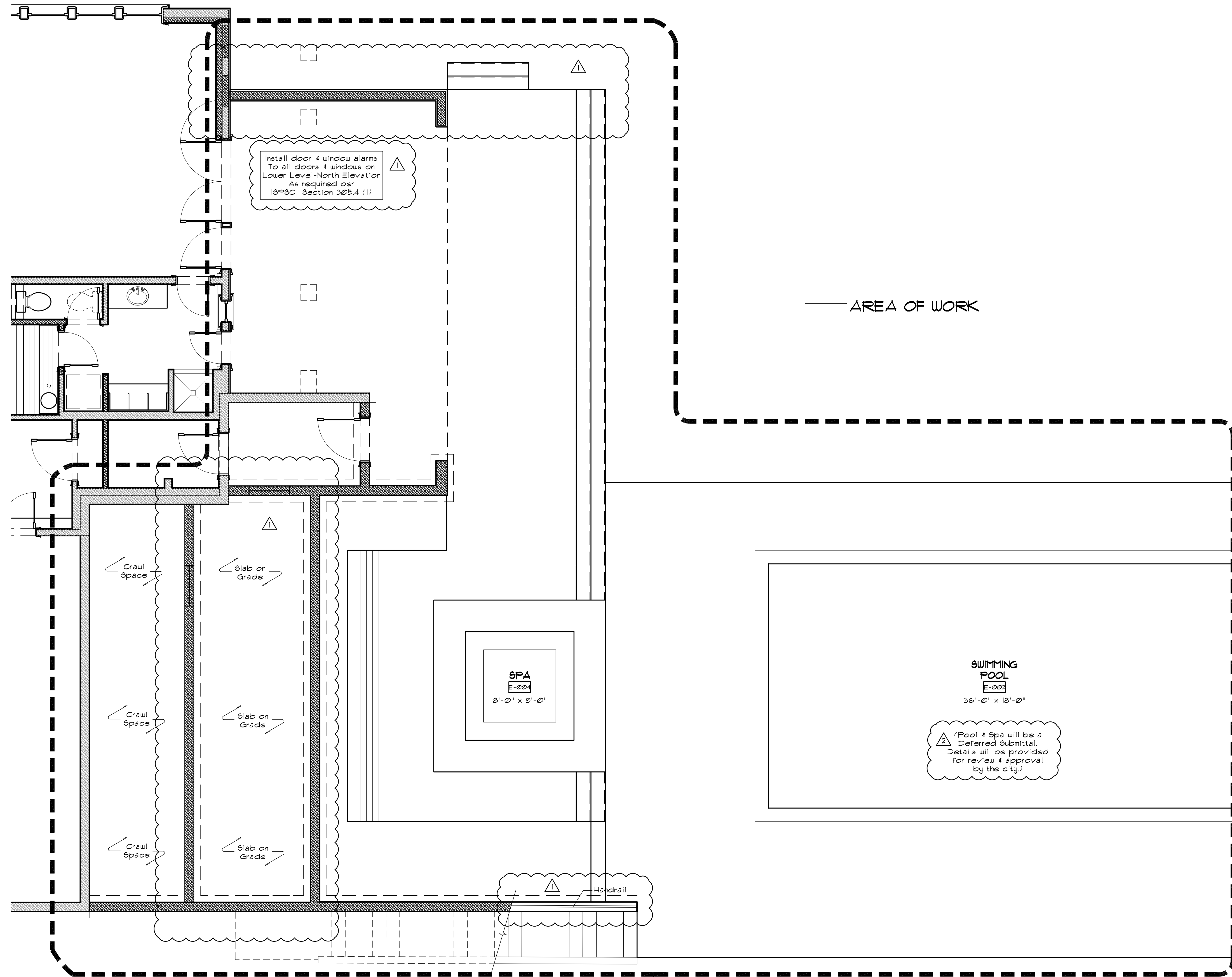
7450 NORTH MERCER WAY
MERCER ISLAND, WASHINGTON



**FLOOR PLAN
MAIN LEVEL**

A-2.2





FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	New Walls to be Constructed
	Existing Walls to Remain
	Existing Walls to be Demolished

DRAWN BY

DESIGN BY

CHECKED BY

APPROVED BY

DATE

April 1, 2019

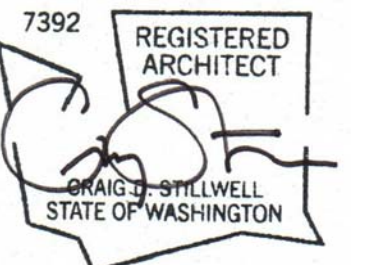
- REVISIONS
- CORRECTIONS #1
July 10, 2019
 - CORRECTIONS #2
August 20, 2019

STILLWELL HANSON ARCHITECTS

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SEATTLE, WASHINGTON 98109
206 297 1504 PHONE
206 297 1543 FAX

LBH RESIDENCE

7450 NORTH MERCER WAY
MERCER ISLAND, WASHINGTON



**FLOOR PLAN
POOL TERRACE**

A-2.5

1 FLOOR PLAN - Lower Level (Pool)
Scale: 1/4" = 1'-0"





1 EXTERIOR ELEVATION - North
Scale 1/4" = 1'-0"



2 EXTERIOR ELEVATION - South
Scale 1/4" = 1'-0"

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DESIGN BY
CHECKED BY
APPROVED BY
DATE
April 1, 2019

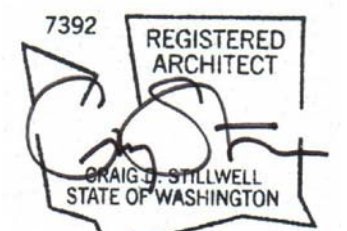
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CORRECTION #1
July 10, 2019

STILLWELL HANSON
ARCHITECTS

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SEATTLE, WASHINGTON 98109
206 297 1504 PHONE
206 297 1543 FAX

LBH
RESIDENCE

7450 NORTH MERCER WAY
MERCER ISLAND, WASHINGTON



EXTERIOR
ELEVATIONS

A-3.1



1 EXTERIOR ELEVATION - West
Scale 1/4" = 1'-0"



2 EXTERIOR ELEVATION - East
Scale 1/4" = 1'-0"

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APPROVED BY
DATE
April 1, 2019

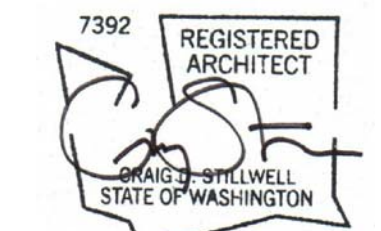
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CORRECTION #1
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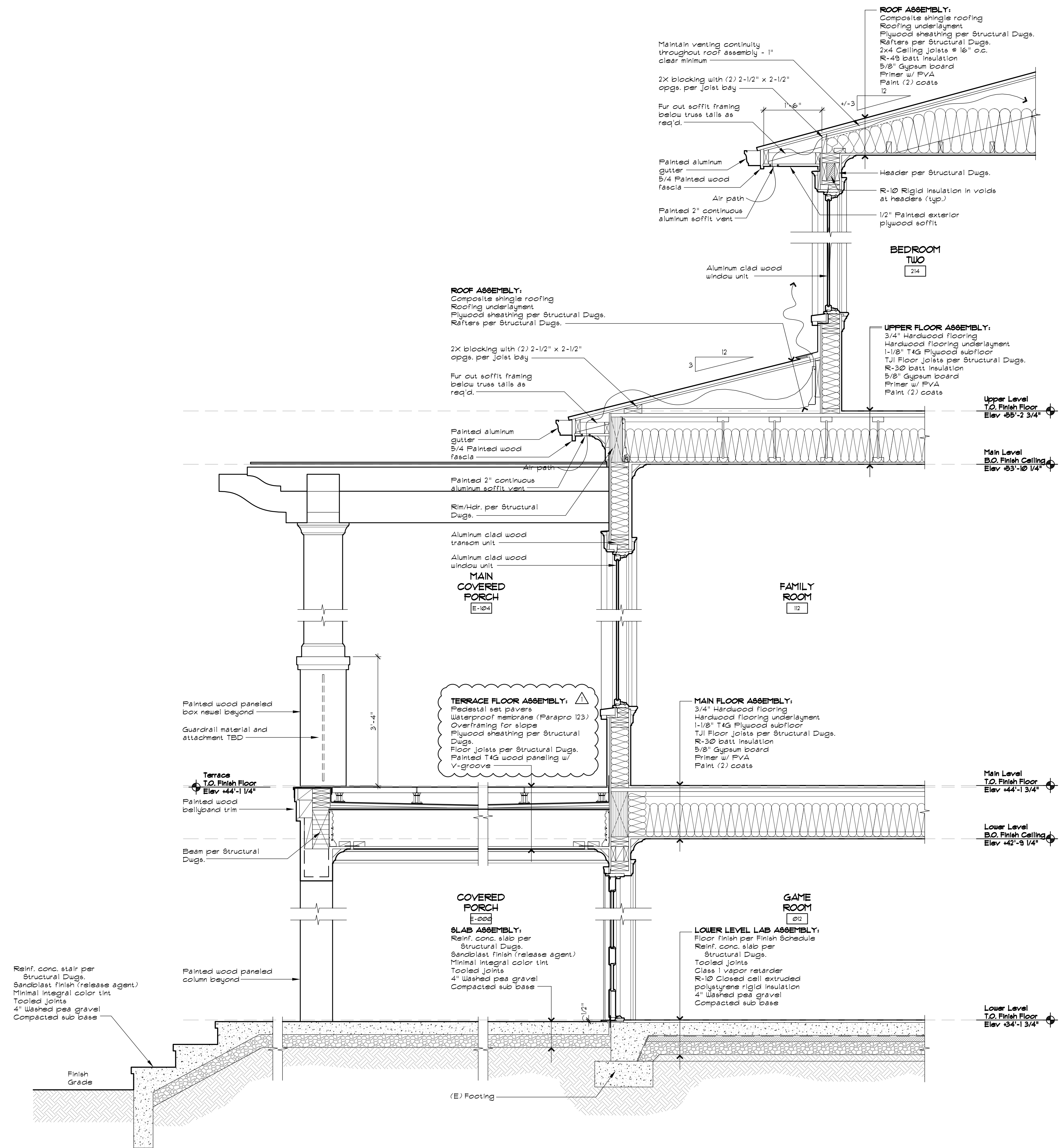
LBH RESIDENCE

7450 NORTH MERCER WAY
MERCER ISLAND, WASHINGTON



EXTERIOR ELEVATIONS

A-3.2



1 WALL SECTION
Scale: 3/4" = 1'-0"

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APPROVED BY
DATE
April 1, 2019

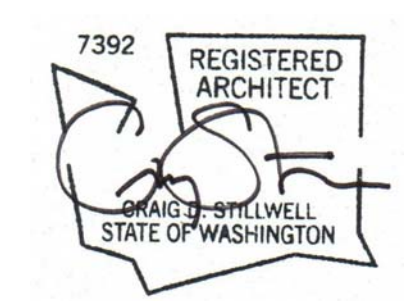
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CORRECTION #1
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7450 NORTH MERCER WAY
MERCER ISLAND, WASHINGTON



WALL SECTIONS

A-4.1

DOOR DIAGRAM NOTES

1. Exterior doors are shown from the exterior side.
2. General Contractor to confirm all rough opening requirements and installation requirements with manufacturer.
3. Manufacturer to review installation locations and confirm safety glazing requirements.
4. Manufacturer to review installation locations and confirm designated units meet egress requirements.
5. Install units per all manufacturer's recommendations.
6. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL BY ARCHITECT PRIOR TO FABRICATION.

DOOR SPEC

MANUFACTURER & MODEL:
Fella or approved equal

EXTERIOR & INTERIOR COLOR:
Match "Standard White" (verify)

GLASS:
Low E

HARDWARE
TBD

DIVIDED LITE:
Match existing size & profile

LEGEND	
TG	Tempered Glass
B	Door Butt
RC	Roller Catch

DRAWN BY

DESIGN BY

CHECKED BY

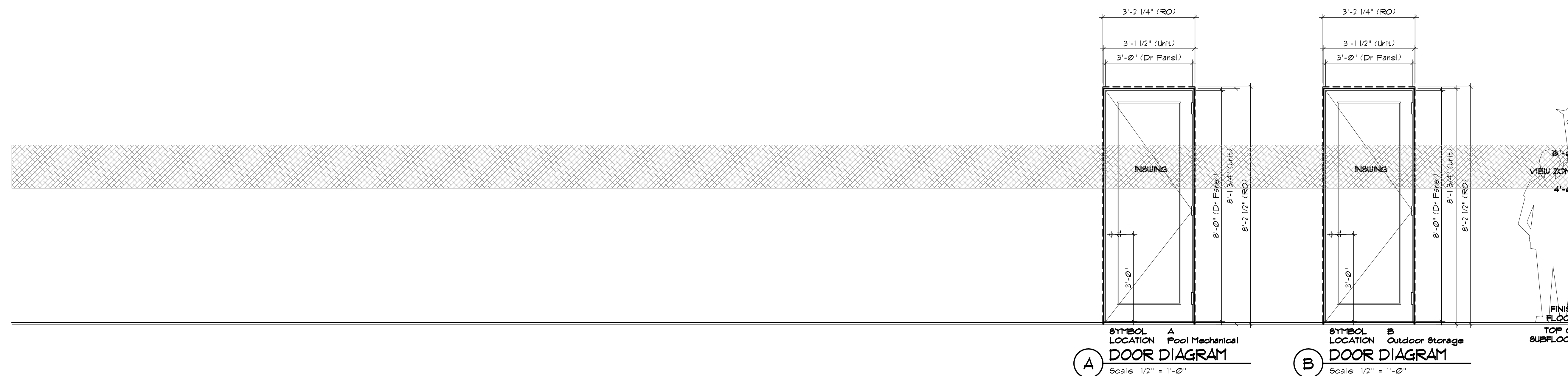
APPROVED BY

DATE
April 1, 2019

REVISIONS

EXTERIOR DOOR SCHEDULE

SYMBOL	LOCATION	ROOM	DIAGRAM	TYPE	SIZE	AREA	FINISH	U	REMARKS
A	Pool Mechanical	016	A below	Ext.	See diagram	NA	Ftd / Ftd	NA	
B	Outdoor Storage	E-006	B below	Ext.	See diagram	NA	Ftd / Ftd	NA	

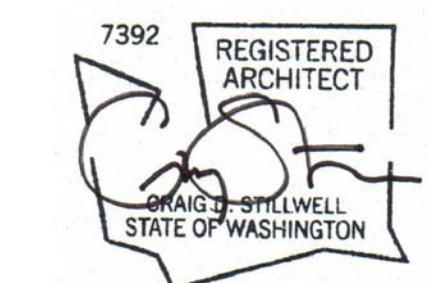


STILLWELL HANSON ARCHITECTS

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SEATTLE, WASHINGTON 98109
206 297 1504 PHONE
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LBH RESIDENCE

7450 NORTH MERCER WAY
MERCER ISLAND, WASHINGTON



EXTERIOR DOOR SCHEDULE

A-5.1

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 IMMEDIATELY.
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.

ARCHITECTURAL, STRUCTURAL & GEOTECHNICAL NOTES

1. SPECIAL INSPECTIONS FOR GEOTECHNICAL AND/OR STRUCTURAL ASPECTS OF THE PROJECT MAY BE REQUIRED DURING VARIOUS STAGES OF THE PROJECT. 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 LOCAL/REGIONAL DIMENSIONAL ASPECTS OF BUILDINGS.
3. COORDINATE ALL SITE CIVIL CONSTRUCTION WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL/PLUMBING AND LANDSCAPE PLANS AND IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS.

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 BUILDING PERMIT.

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

SURVEY NOTE:

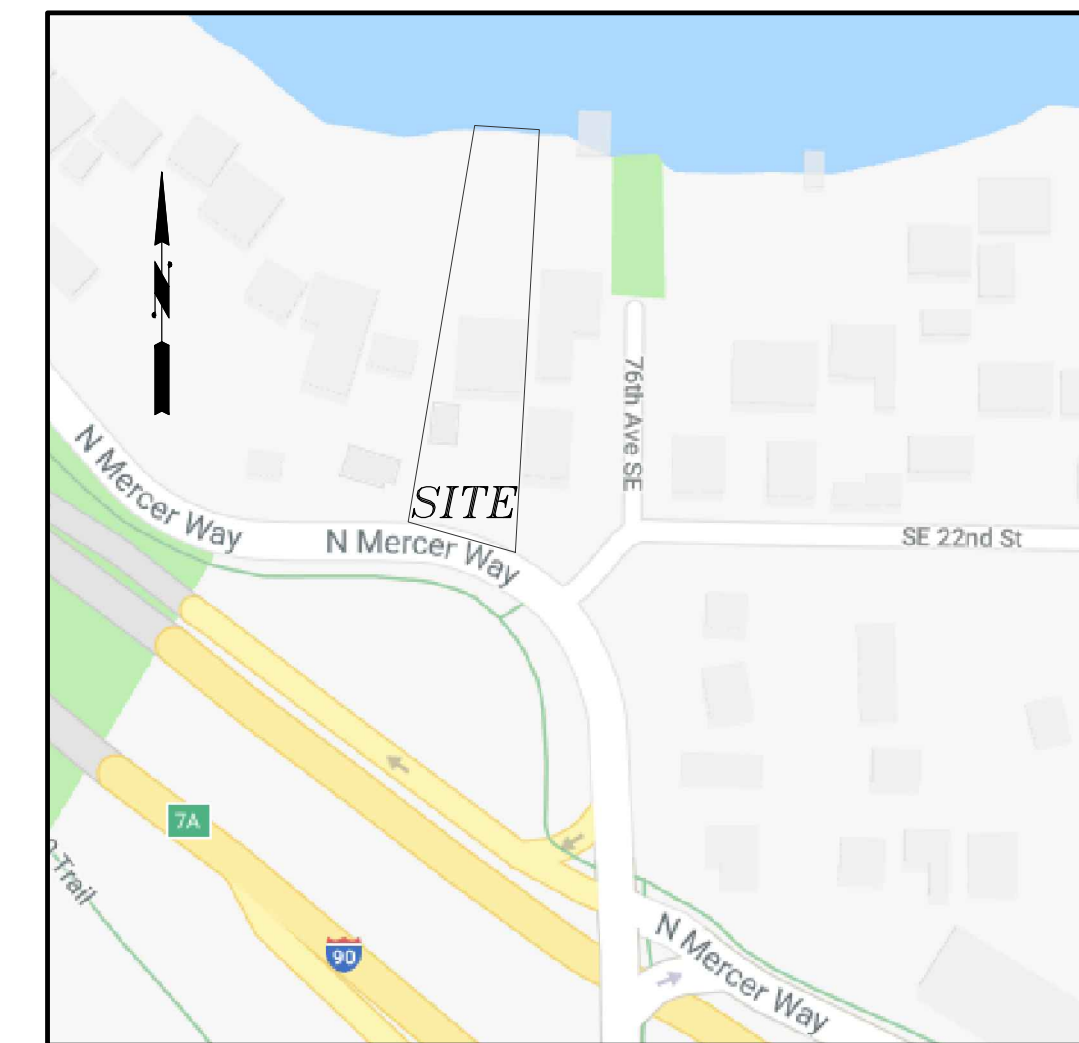
EXISTING SURVEY FEATURES, BOUNDARY AND TOPOGRAPHIC DATA SHOWN ON THESE DRAWINGS HAS BEEN PREPARED, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, LITCHFIELD ENGINEERING CANNOT ENSURE THE ACCURACY AND THIS IS NOT RESPONSIBLE FOR THE ACCURACY OF DATA/INFORMATION 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°33'00" W ALONG N-S LINE OF SEC. 1, T.24N., R.4E., W.M. AS SHOWN HEREON AND PER MERCER ISLAND LOT LINE REVISION NO. M 96-1381 IN VOL. 116 OF SURVEYS, PG 34

LEGAL DESCRIPTION:

LOT 9, BLOCK 2, MCCLVRA'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, MCCLVRA'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°08'00" EAST 9.30 FEET, THENCE NORTH 4°38'00" 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
 SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON.



VICINITY MAP
 NOT TO SCALE

PROJECT DATA

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

PROJECT TEAM

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

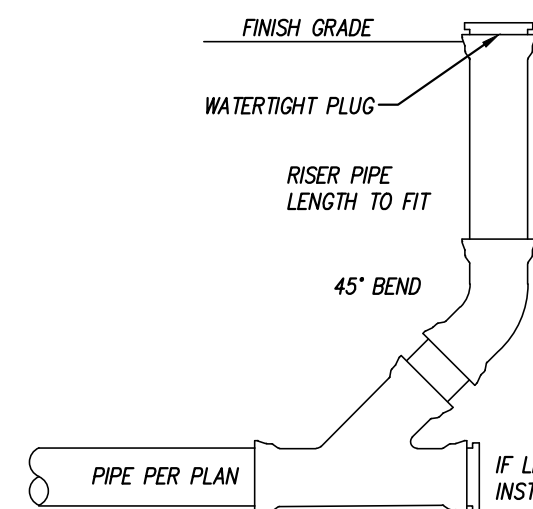
ARCHITECT: STILLWELL HANSON ARCHITECTS
 46 ETRURIA STREET, SUITE 200
 SEATTLE, WASHINGTON 98109
 CONTACT: CRAIG STILLWELL
 PHONE: (206) 297-1504

CIVIL ENGINEER: LITCHFIELD ENGINEERING
 12840 81ST AVE NE
 KIRKLAND, WA 98034
 (425) 821-5038
 CONTACT: KEITH LITCHFIELD, PE

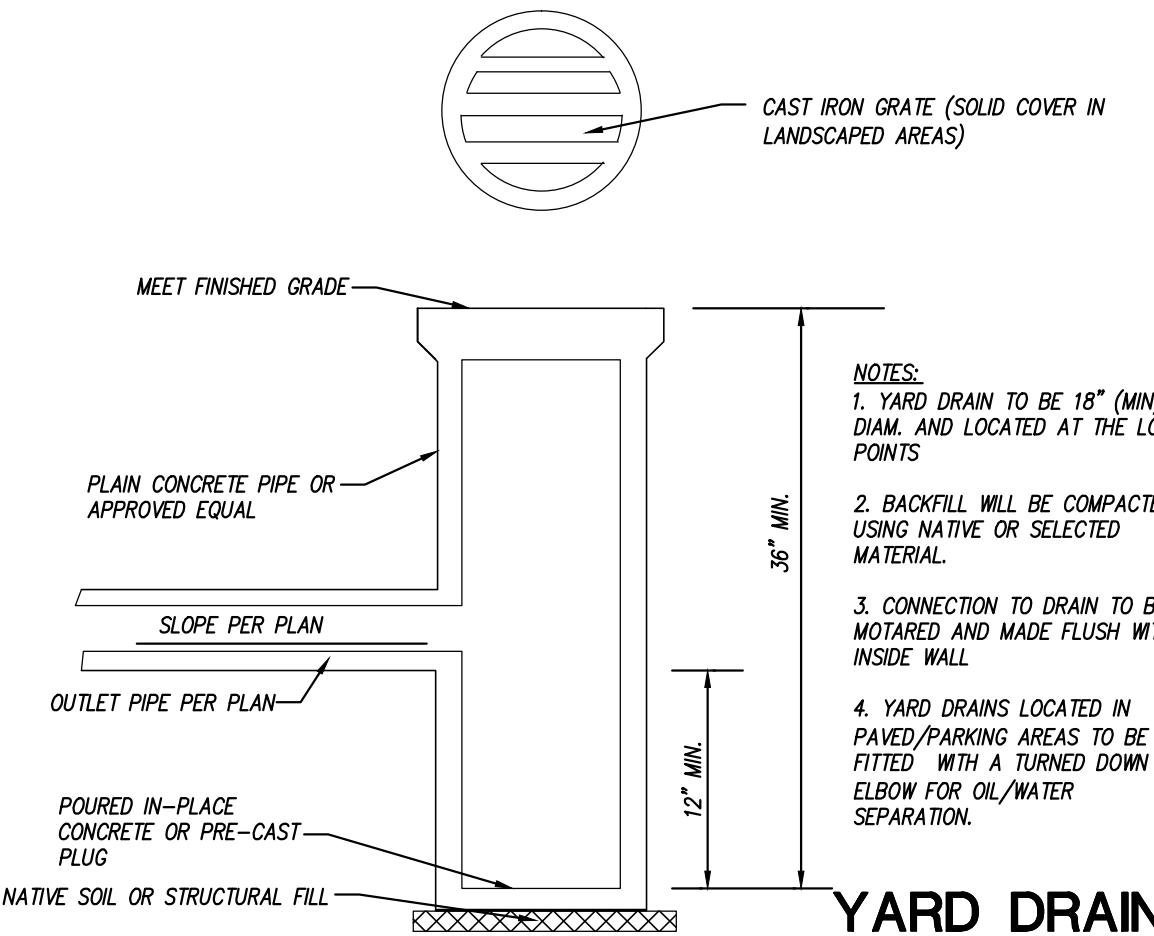
SURVEYOR: TERRANE
 10801 MAIN STREET, STE 102
 BELLEVUE, WA 98004
 (425) 458-4488
 CONTACT: EDWIN J. GREEN JR.

LEGEND

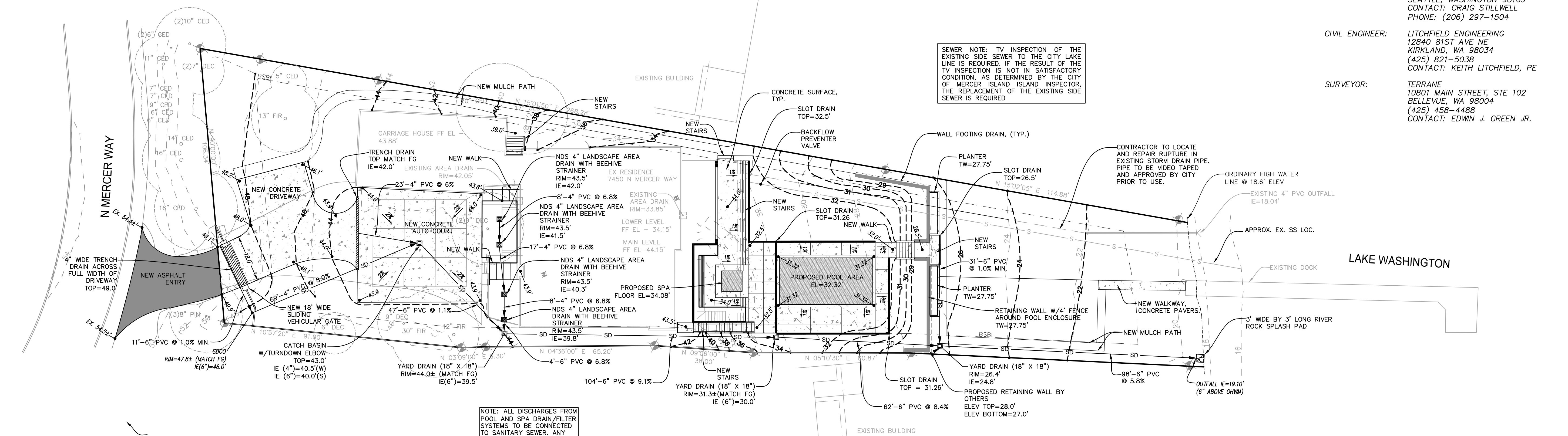
- FOUND PIPE
- SET HUB
- SET PK NAIL
- FOUND NAIL
- GAS METER
- GAS VALVE
- SOIL LOG/TEST PIT
- SANITARY SEWER MANHOLE
- CATCH BASIN
- WATER METER
- METLAND FLAG
- POWER METER
- AREA LIGHT
- POWER POLE



CLEANOUT DETAIL
 N.T.S.



YARD DRAIN
 N.T.S.

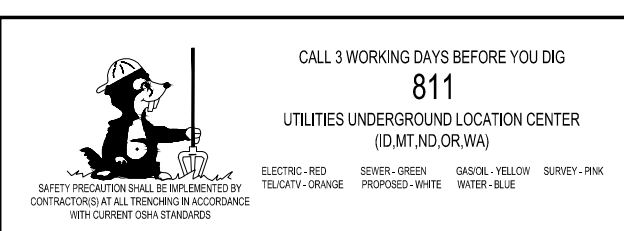
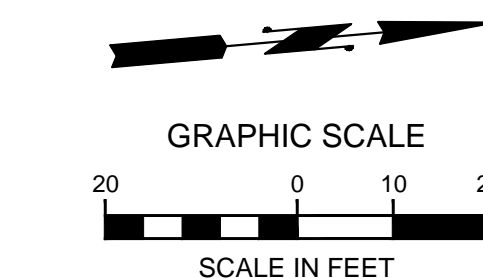


SEWER NOTE: TV INSPECTION OF THE EXISTING SIDE SEWER TO THE CITY LAKE LINE IS REQUIRED. IF THE RESULT OF THE TV INSPECTION IS NOT IN SATISFACTORY CONDITION, AS DETERMINED BY THE CITY OF MERCER ISLAND ISLAND INSPECTOR, THE REPLACEMENT OF THE EXISTING SIDE SEWER IS REQUIRED

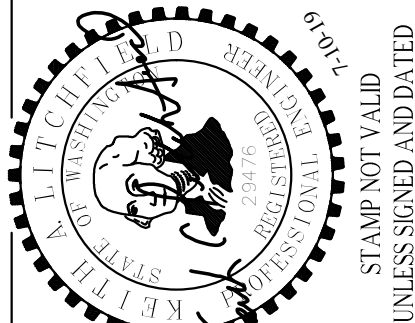
NOTE: ALL DISCHARGES FROM POOL AND SPA DRAIN/FILTER SYSTEMS TO BE CONNECTED TO SANITARY SEWER. ANY OTHER DISCHARGE LOCATION STRICTLY PROHIBITED

SHEET INDEX

1. SITE IMPROVEMENT PLAN
2. TESC & SWPP PLAN



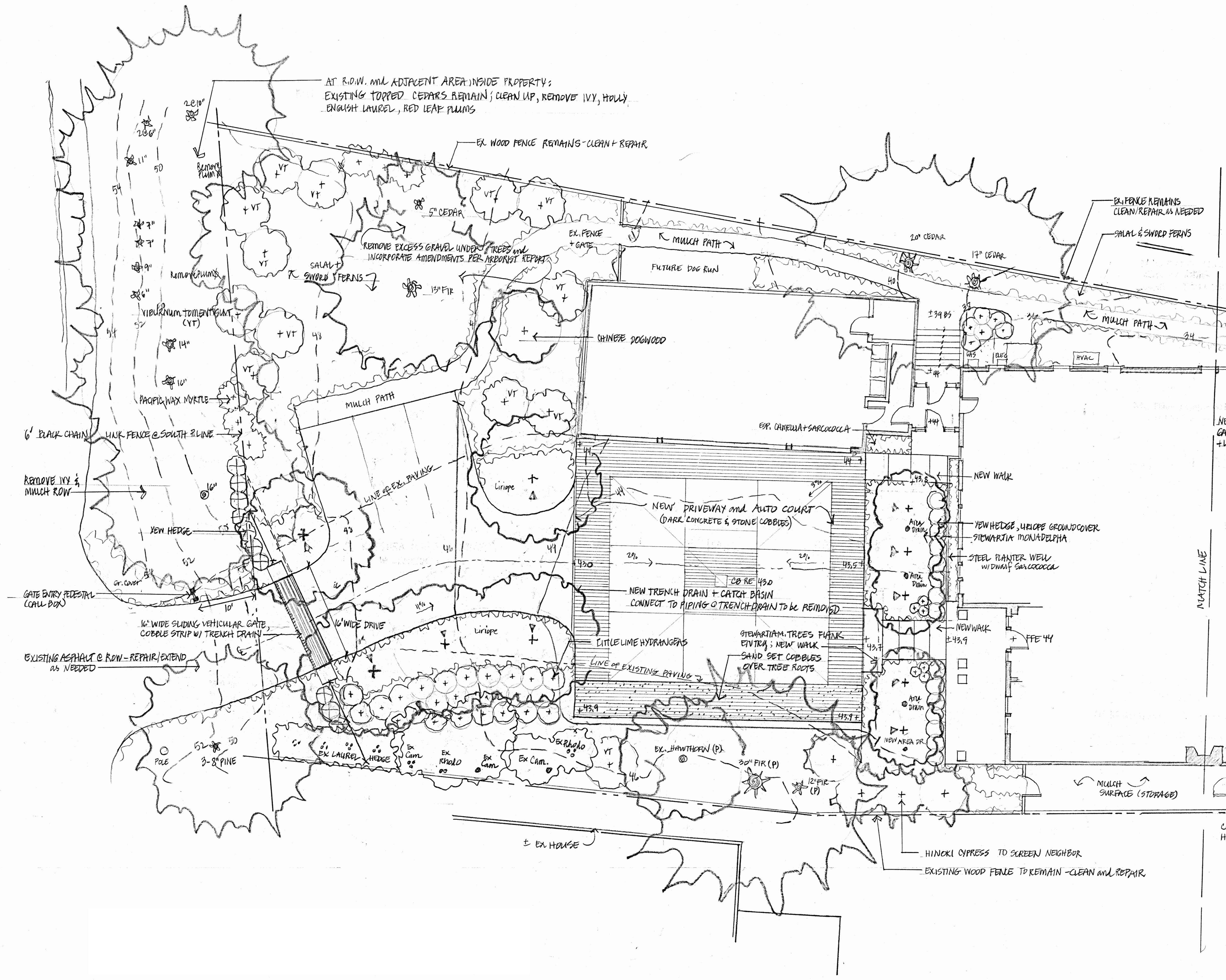
APPROVAL	DATE
CITY OF MERCER ISLAND DEVELOPMENT SERVICES GROUP	



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

LITCHFIELD ENGINEERING
 12840 81ST AVENUE NE
 Kirkland, WA 98034
 Tel (425) 821-5038 Fax (425) 821-5739

SITE IMPROVEMENT PLAN
LBH RESIDENCE
7450 NORTH MERCER WAY
 SEAN KELL
 14033 SE 92ND STREET
 NEWCASTLE, WA 98059



AT R.O.W. AND ADJACENT AREA INSIDE PROPERTY:
 EXISTING TOPPED CEDARS REMAIN; CLEAN UP, REMOVE IVY, HOLLY,
 ENGLISH LAUREL, RED LEAF PLUMS

EX WOOD FENCE REMAINS - CLEAN + REPAIR

EX FENCE REMAINS
 CLEAN/REPAIR AS NEEDED

SALAL & SWORD FERNS

MATCH LINE

6' BLACK CHAIN LINK FENCE @ SOUTH R.L. LINE

REMOVE IVY & MULCH ROW

GATE ENTRY PEDESTAL (CALL BOX)

16" WIDE SLIDING VEHICULAR GATE COBBLE STRIP W/ TRENCH DRAIN

EXISTING ASPHALT @ ROW - REPAIR/EXTEND AS NEEDED

NEW DRIVEWAY AND AUTO COURT (DARK CONCRETE & STONE COBBLES)

NEW TRENCH DRAIN + CATCH BASIN CONNECT TO PIPING @ TRENCH DRAIN TO BE REMOVED

LINE OF EXISTING PAVING

NEW WALK

YEW HEDGE, URLOPE GROUNDCOVER

STEWARTIA MONADELPHA

STEEL PLANTER WELL W/ DRAIN SARCOCOLA

NEW WALK

FFE 44

MULCH SURFACE (STORAGE)

HINOKI CYPRESS TO SCREEN NEIGHBOR

EXISTING WOOD FENCE TO REMAIN - CLEAN AND REPAIR

LEGEND

- ★ EXISTING EVERGREEN TREE
- EXISTING DECIDUOUS TREE
- ⊕ PROPOSED TREE/SHRUB
- ⊕ PROPOSED GROUNDCOVER FERNS, SMALL SHRUBS
- (M) MITIGATION PLANTING (DOCK REPAIRS)
- 42 PROPOSED CONTOUR
- - - EXISTING CONTOUR
- ▲ LANDSCAPE UPLIGHT
- ⊕ LANDSCAPE PATH LIGHT
- IN PAVEMENT MICRO DRIVE STAR LIGHT
- +TW TOP OF WALL ELEVATION
- +BW BOTTOM OF WALL ELEVATION
- +RE RIM ELEVATION
- CB CATCH BASIN
- AD AREA DRAIN
- + PROPOSED ELEVATION

Scale 1" = 8'

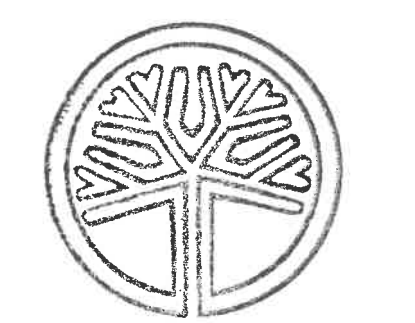
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ANNE JAMES LANDSCAPE ARCH

24539 NE 11th STREET
 REDMOND, WASHINGTON 98074
 425 894 9857

LBH RESIDENCE

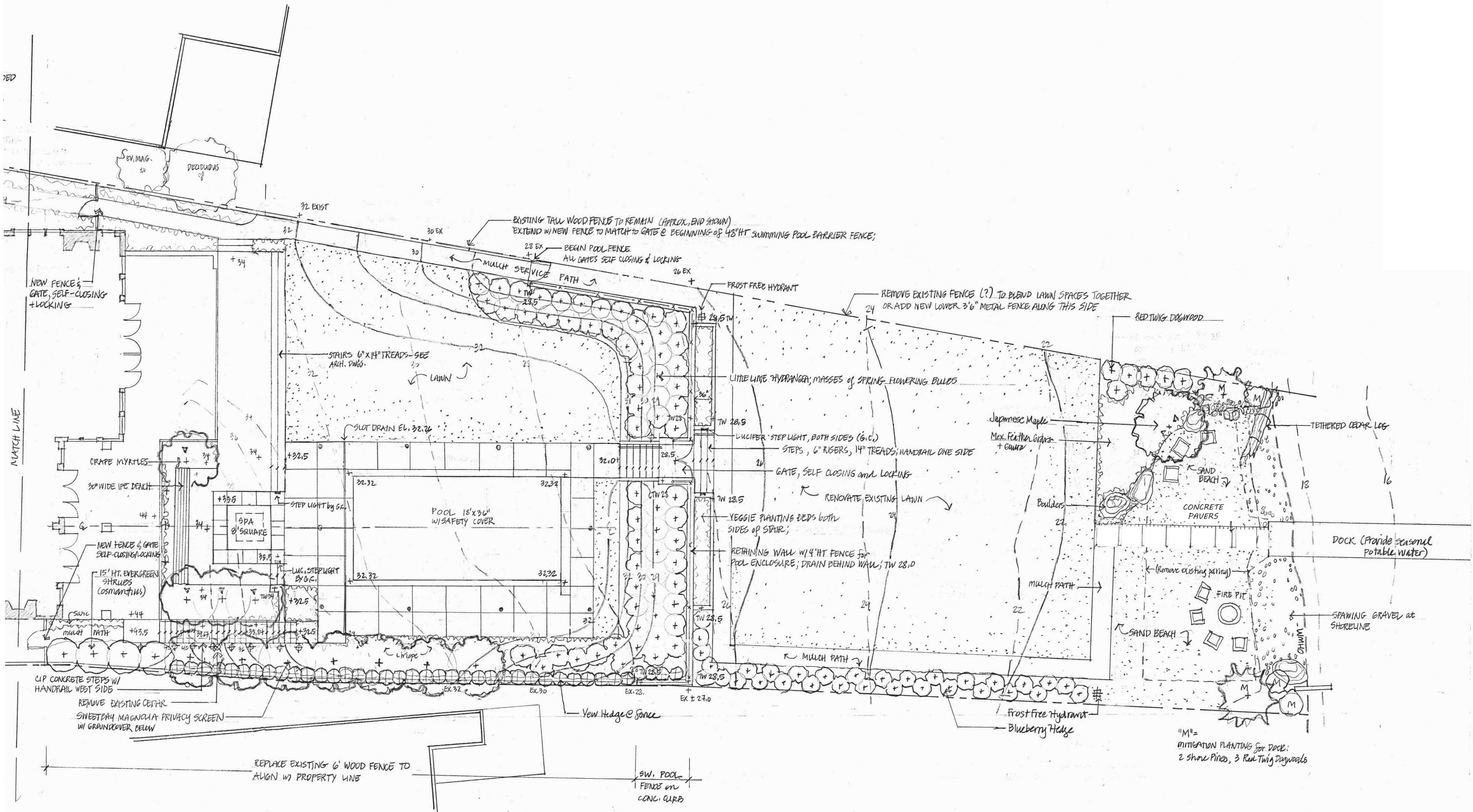
7450 NORTH MERCER WAY
 MERCER ISLAND, WASHINGTON



STATE OF WASHINGTON
 REGISTERED LANDSCAPE ARCHITECT
 Anne James
 ANNE JAMES
 CERTIFICATE NO. 864

Landscape Plan - South

L-2.0



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 RESIDENCE**

7450 NORTH MERCER WAY
 MERCER ISLAND, WASHINGTON



STATE OF WASHINGTON
 REGISTERED
 LANDSCAPE ARCHITECT
Anne James
 ANNE JAMES
 CERTIFICATE NO. 664

Landscape Plan - North

Scale 1" = 8'

L-2.1

LBH RESIDENCE PLANTING SCHEDULE

Quantity	Size	Latin Name	Common Name	Spacing	Notes
TREES					
1	10'12' ht	Acer specimen TBD	Japanese Maple Specimen		Shoreline shade tree
5	4" caliper	Cercidiphyllum japonicum	Katsura		Matched Specimens for driveway
5	12' ht	Chamaecyparis obtuse "Gracilis"	Slender Hinoki Cypress		Screening east of entry
1	3" caliper	Cornus kousa	Chinese dogwood		South of garage
7	16'-18' ht., multistemmed or low branched	Magnolia virginiana Jim Wilson "Moonglow"	Moonglow Sweetbay Magnolia		Screening east of pool
5	4" caliper	Stewartia monadelphica	Red bark Stewartia		Specimens at front entry bed
4	10'-12' ht. multi-stemmed clumps	Lagerstroemia variety TBD, possible Osage (light pink)	Crape Myrtle		Around spa; low growing variety to 20' max.;
SHRUBS					
1	15 gallon, espaliered	Camellia s. 'Setsugekka'	Espaliered Setsugekka Camellia		Against garage near entry link
6	5 gallon	Cornus sericea "Bayleyi"	Red Twig Dogwood		3 as mitigation planting at shoreline, rest nearby
6	30"36" ht and spread	Daphne transatlantica "Blafra" Eternal Fragrance	Hybrid Daphne		Front entry
200	2 gallon	Gaultheria shallon	Salal	24"	Place in field; groundcover west side of house, south of garage
84	5 gallon	Hydrangea "Little Lime"	Little lime hydrangea		64 north of pool, 20 along driveway
15	5 gallon	Myrica californica	Pacific Wax Myrtle		South property line – see plan
5	8'-10' ht, loose form	Osmanthus burkwoodii	Sweet Olive		Screening east property line at upper terrace
10	5 gallon	Ribes sanguinum	Red Flowering Currant	48"	
140	2 gallon	Sarcococca humilis hookeriana	Dwarf Sweet Box	18"	Place in field
7	5 gallon	Syringa "Angel White"	Lilac		West side of terrace
40 LF	4' ht.	Taxus x. media "Hicksii"	Hicks Yew		Entry area
110 LF	6' Ht.	Taxus x. media "Hicksii"	Hicks Yew		East and west of gate columns 20 LF; 90 LF East PL east of pool
36	5 gallon	Vaccinium varieties TBD	Blueberries	36"	
12	4'-5' ht	Viburnum tomentosum "Mariesii"	Doublefile viburnum		
GROUND COVERS, VINES and PERENNIALS					
100	1 gallon	Perennials TBD			Daylilies, perennial geraniums, peonies, iris, Japanese anemone
40	1 gallon	Gaura lindheimeri "Whirling Butterflies"	White Wand Flower		
12	1 gallon	Helleborus "Jacob"	Jacob Hellebore	18"-24"	Place in field
12	1 gallon	Hellebore Winter Jewel "Onyx Odyssey"	Onyx Odyssey Hellebore		Place in field
3	5 gallon	Hydrangea petiolaris	Climbing hydrangea vine		North facing stucco wall south of spa
1500	4" pots	Liriope spicata	Mondo Grass	12"	
120	1 gallon	Nasella tenuissima	Mexican Feather Grass		
400	1 gallon	Polystichum munitum	Sword Fern	24"	
50	5 gallon	Trachelospermum jasminoides	Star Jasmine, Bush form	24"	Groundcover under Crape Myrtles at spa
18	1 gallon	Trillium grandiflorum	Great White Trillium		Place in field

MITIGATION PLANTING FOR DOCK WORK

2	8'-10' ht.	Pinus contorta	Shore Pine		Dock mitigation planting at shoreline – to be planted within 10' of shoreline
3	5 gallon	Cornus sericea	Red Twig Dogwood		Dock mitigation planting at shoreline – to be planted within 10' of shoreline

Planting Notes

- Landscape contractor shall verify location of all site utilities with general contractor prior to landscape implementation.
- Prior to commencing with any work, landscape contractor to set up a pre-installation meeting to discuss installation procedures and coordination issues. At a minimum, attendees to include landscape architect, landscape contractor, and general contractor.
- All plant material to be healthy and free of disease. Plant stock must conform to American Nurseryman standards and general horticultural practices. All trees shall be specimen quality. All plants shall be nursery grown and shall be of type, size, and condition specified. The plants shall exhibit normal habits of growth for their species. They shall have buds intact and shall be free of disease, insects, scars, bruises, breaks, etc.
- All plants shall be selected and approved by the landscape architect prior to planting, through a combination of nursery visits and review of plant samples and photographs.
- Coordinate plant locations with existing / proposed utilities, fencing, sprinkler systems, and other site appurtenances to avoid conflicts.
- General contractor to verify that subgrade is properly prepared before landscape contractor begins with finish grading and importation of topsoil. This includes removing all construction debris to full depth. The general contractor should verify that the subgrade in planting areas has not been compacted by construction activity. If subgrade is compacted, it should be loosened by the general contractor to 90% compaction within the top 18".
- Landscape contractor to scarify the subgrade of all new planting areas to a depth of ±6" before placing topsoil using a rototiller or other appropriate equipment to achieve the specified depths. In areas where scarifying may damage existing tree roots, review conditions in the field with the landscape architect. After scarifying, remove all sticks, stones, etc., larger than ½" in any dimension. Mix topsoil or compost (depending on location) into subgrade layer a minimum of 3" by rototilling or other means.
- Planting soil and amendments:
 - New planting soil: topsoil to depths as follow:
 - Lawn areas 70/30 mix - 12" deep
 - Shrub Beds – Planting Soil, 60/40 or 50/50, 24" deep, if conditions allow; review with LA.
 - Tree planting beds – Planting soil 36" deep, if conditions allow; review with LA.
 - Renovated planting beds with new plantings: Amend with 3" depth compost and ground kelp at 1lb per SF, dug or tilled in to a depth of 3", except in areas of tree roots, where it should be incorporated in gently by hand.
 - All planting beds to receive 2" depth of fine bark mulch.
- Inoculate new plantings and existing trees with microbial tea after installation but before mulching.
- Container plants shall be well established but not root bound. If roots encircle themselves in the pots, the roots shall be loosened and/or sliced through to encourage natural outward growth.
- Contractor shall provide and plant the numbers of plants listed or shown on the plans— whichever is greater.
- No plant substitutions (size or variety) or omissions unless approved in writing by landscape architect.
- All shrubs and trees to be laid out for approval or final planting location by landscape architect before planting.
- Plant groundcover on triangular spacing. Plant shrubs as shown on plans or as directed by landscape architect.

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CERTIFICATE NO. 864

Planting Schedule
and Planting Notes

L-2.2

General Structural Notes

THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS

CRITERIA

- 1. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE INTERNATIONAL BUILDING CODE (2015 EDITION).
2. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, THE INTERNATIONAL BUILDING CODE (2015 EDITION).
3. DESIGN LOADING CRITERIA: RESIDENTIAL – ONE AND TWO-FAMILY DWELLINGS
4. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION.
5. PRIMARY STRUCTURAL ELEMENTS NOT DIMENSIONED ON THE STRUCTURAL PLANS AND DETAILS SHALL BE LOCATED BY THE ARCHITECTURAL PLANS AND DETAILS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE CONTRACTORS WORK.
7. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.
8. CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION.
9. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION.
10. ALL STRUCTURAL SYSTEMS, WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERRECTED, SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, 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 APPROVED BY THE BUILDING OFFICIAL. IF SOILS ARE FOUND TO BE OTHER THAN 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. 2000 PSF
LATERAL EARTH PRESSURE (RESTRAINED/UNRESTRAINED). 55 PCF/35 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). 75 PSF
SEISMIC SURCHARGE PRESSURE (UNIFORM LOAD) 7H PSF

RENOVATION

- 12. DEMOLITION: CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING ANY DEMOLITION. SHORING SHALL BE INSTALLED TO SUPPORT EXISTING CONSTRUCTION AS REQUIRED AND IN A MANNER SUITABLE TO THE WORK SEQUENCES.
13. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS PRIOR TO COMMENCING ANY WORK.
14. CONTRACTOR SHALL CHECK FOR DRY ROT AT ALL AREAS OF NEW WORK.

CONCRETE

- 15. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH ACI 301, INCLUDING TESTING PROCEDURES.
16. ALL CONCRETE WITH SURFACES EXPOSED TO WEATHER OR STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260, C494, AND C618.
17. DETAILING OF REINFORCING STEEL (INCLUDING HOOKS AND BENDS) SHALL BE IN ACCORDANCE WITH ACI 315-99 AND 318-11.
18. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:
FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
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"
COLUMN TIES OR SPIRALS AND BEAM STIRRUPS 1-1/2"
SLABS AND WALLS (INT. FACE). GREATER OF BAR DIAMETER PLUS 1/8" OR 3/4"

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

- 20. CAST-IN-PLACE CONCRETE: SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS OF DOOR AND WINDOW OPENINGS IN ALL CONCRETE WALLS.
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.

ANCHORAGE

- 22. EXPANSION BOLTS INTO CONCRETE SHALL BE "STRONG-BOLT 2" WEDGE ANCHORS AS MANUFACTURED BY THE SIMPSON STRONG TIE COMPANY.
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.
24. CONCRETE SCREW ANCHORS INTO CONCRETE AND CONCRETE MASONRY UNITS SHALL BE "TITEN HD" HEAVY DUTY SCREW ANCHOR AS MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY.

STEEL

- 25. STRUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE BASED ON:
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:
C. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.

- 26. WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992, FY = 50 KSI. OTHER ROLLED SHAPES INCLUDING PLATES, SHALL CONFORM TO ASTM A36, FY = 36 KSI.
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.

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

- 29. ALL ANCHORS EMBEDDED IN MASONRY OR CONCRETE SHALL BE A307 HEADED BOLTS OR A36 THREADED ROD WITH AN ASTM 563 HEAVY HEX NUT TACK WELDED ON THE EMBEDDED END.
30. ALL WELDING SHALL BE IN CONFORMANCE WITH AISC AND AWS STANDARDS AND SHALL BE PERFORMED BY WABO CERTIFIED WELDERS USING E70XX ELECTRODES.
31. FRAMING LUMBER SHALL BE S-DRY, KD, OR MC-19, AND GRADED AND MARKED IN CONFORMANCE WITH WOLB STANDARD "GRADING RULES FOR WEST COAST LUMBER NO. 17", OR WMPA STANDARD, "WESTERN LUMBER GRADING RULES 2011".

WOOD

- 32. GLUED LAMINATED MEMBERS SHALL BE FABRICATED IN CONFORMANCE WITH ASTM AND ANSI/AITC STANDARDS.
33. MANUFACTURED LUMBER, PSL, LVL, AND LSL SHOWN ON PLAN ARE BASED PRODUCTS MANUFACTURED BY THE WEYERHAEUSER CORPORATION IN ACCORDANCE WITH ICC-ES REPORT ESR-1387.
PSL (2.0E) Fb = 2900 PSI, E = 2000 KSI, Fv = 290 PSI
LVL (2.0E) Fb = 2600 PSI, E = 2000 KSI, Fv = 285 PSI
LSL (1.55E) Fb = 2325 PSI, E = 1550 KSI, Fv = 310 PSI

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

ROOF SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING 32/16.
FLOOR SHEATHING SHALL BE 3/4" (NOMINAL) WITH SPAN RATING 48/24.
WALL SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING 24/0.

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

REFER TO WOOD FRAMING NOTES BELOW FOR TYPICAL NAILING REQUIREMENTS.

- 35. ALL WOOD IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-TREATED WITH AN APPROVED PRESERVATIVE OR (2) LAYERS OF ASPHALT IMPREGNATED BUILDING PAPER SHALL BE PROVIDED BETWEEN UNTREATED WOOD AND CONCRETE OR MASONRY.

- 36. PRESERVATIVE TREATED WOOD SHALL BE TREATED PER AMPA STANDARD U1 TO THE USE CATEGORY EQUAL TO OR HIGHER THAN THE INTENDED APPLICATION.
37. FASTENERS AND TIMBER CONNECTORS USED WITH TREATED WOOD SHALL HAVE CORROSION RESISTANCE AS INDICATED IN THE FOLLOWING TABLE, UNLESS OTHERWISE NOTED.

Table with 3 columns: WOOD TREATMENT, CONDITION, PROTECTION. Rows include HAS NO AMMONIA CARRIER, CONTAINS AMMONIA CARRIER, INTERIOR DRY, EXTERIOR DRY, INTERIOR WET, EXTERIOR, ANY.

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%.

- 38. TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED IN THEIR CATALOG NUMBER C-2015.
ALL 2X JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "LUS" SERIES JOIST HANGERS. ALL T1J JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "ITS" 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:

Table with 3 columns: SIZE, LENGTH, DIAMETER. Rows include 6d, 8d, 10d, 12d, 16d BOX.

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.

- 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.

- 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.

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.

C. NOTCHES AND HOLES IN MANUFACTURED LUMBER AND PREFABRICATED PLYWOOD WEB JOISTS SHALL BE PER THE MANUFACTURERS RECOMMENDATIONS UNLESS OTHERWISE NOTED.

- 41. WOOD FRAMING NOTES--THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE PLANS:

A. ALL WOOD FRAMING DETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE INTERNATIONAL BUILDING CODE, THE AITC "TIMBER CONSTRUCTION MANUAL" AND THE AF&PA "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION".

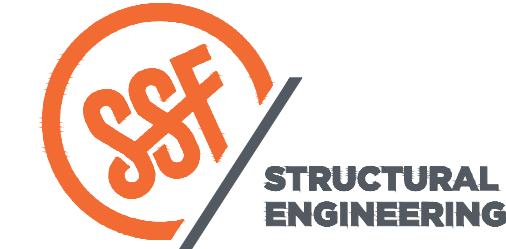
B. WALL FRAMING: REFER ARCHITECTURAL DRAWINGS FOR THE SIZE OF ALL WALLS. ALL STUDS SHALL BE SPACED AT 16" O.C. UNO. TWO STUDS MINIMUM SHALL BE PROVIDED AT THE END OF ALL WALLS AND AT EACH SIDE OF ALL OPENINGS.

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.

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.

- 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.

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.



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- REVISIONS:
1 Corrections Feb. 19, 2019
2 Corrections Mar. 21, 2019
3 Corrections July 12, 2019

DDP:

PROJECT TITLE:

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

ISSUE:

Permit

SHEET TITLE:

General Structural Notes

SCALE:

DATE: November 30, 2018

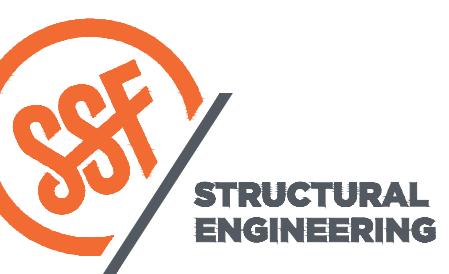
PROJECT NO: 00834-2018-08

SHEET NO:

S1.1

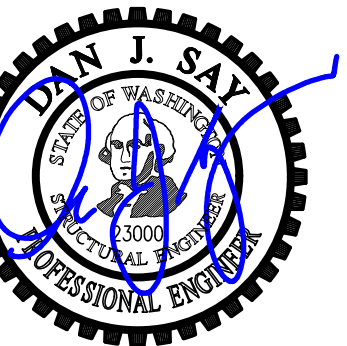
Plan Notes

- DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
- THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 18" MINIMUM BELOW GRADE.
- 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.
- PROVIDE CORNER BARS PER DETAIL 8/S3.1 AT ALL WALL AND FOOTING INTERSECTIONS.
- ALL POSTS ABOVE SHALL BEAR FULLY ON BEAMS OR POSTS BELOW AND SHALL HAVE CONTINUOUS FULL BEARING THROUGH FLOORS TO THE FOUNDATION.
- 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.
- CONTRACTOR SHALL VERIFY ALL EXISTING FRAMING CALLED OUT ON PLAN. IF DISCREPANCIES ARE FOUND, CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD IMMEDIATELY.
- REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



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REVISIONS:

1	Corrections	Feb. 19, 2019
2	Corrections	Mar. 21, 2019
3	Corrections	July 12, 2019

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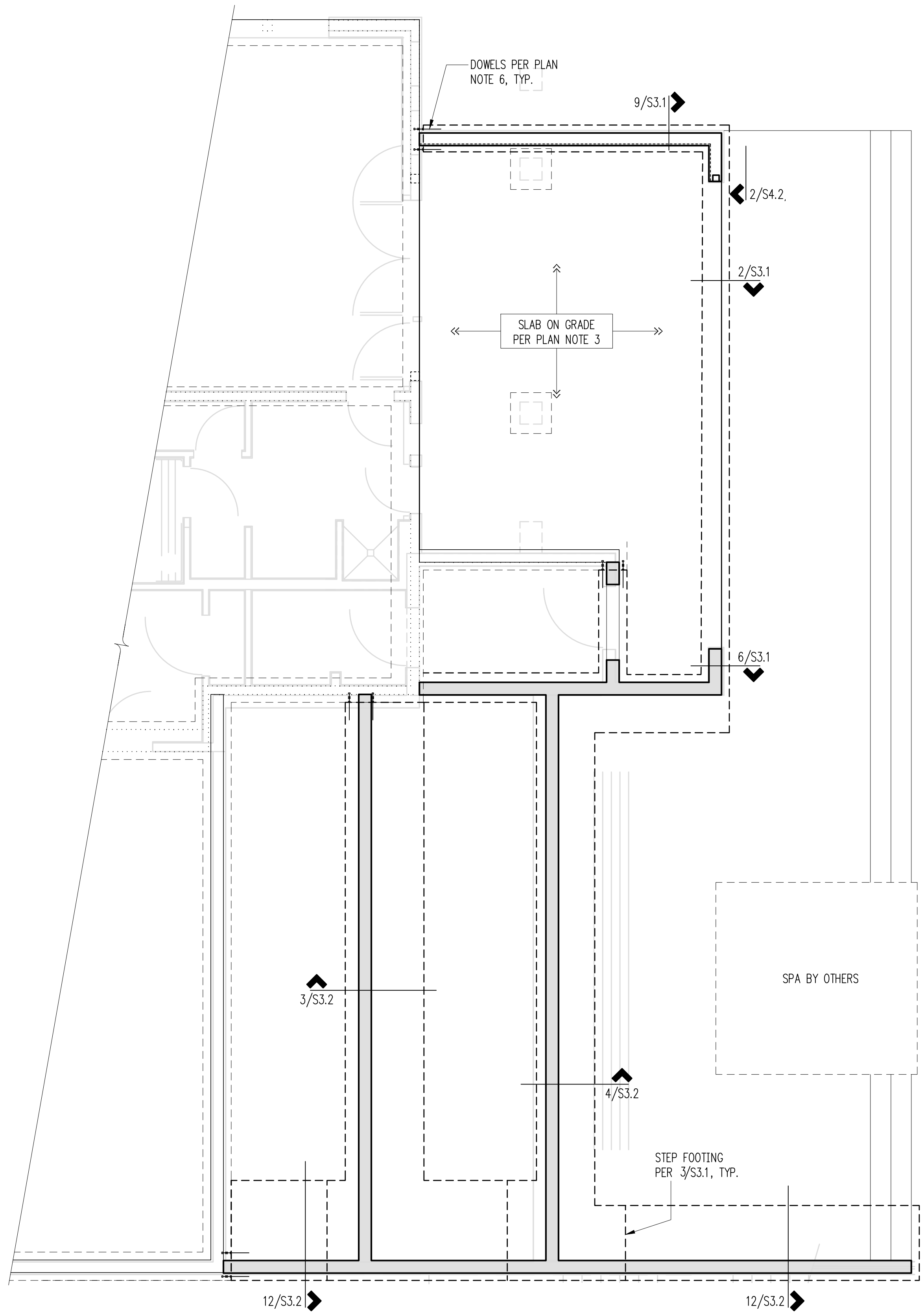
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ISSUE:
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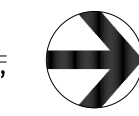
SHEET TITLE:
Foundation Plan

SCALE: 1/4" = 1'-0"
 DATE: November 30, 2018
 PROJECT NO: 00834-2018-08
 SHEET NO:

S2.1

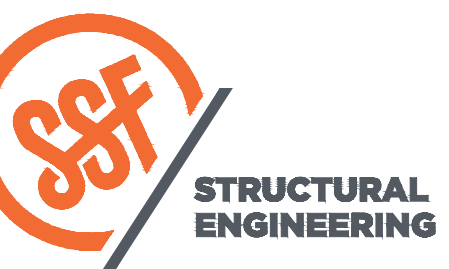


Foundation Plan
 Scale: 1/4" = 1'-0"



Plan Notes

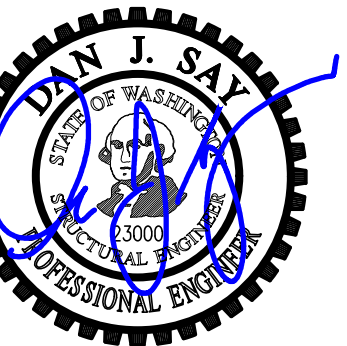
- DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
- ALL (E) SHEATHING W/ DAMAGE MORE THAN 1/4" DEEP SHALL BE REPLACED IN KIND OR SUPPLEMENTED WITH AN ADDITION SHEET OF 1/2" TONGUE AND GROOVE A.P.A. RATED PANELS (EXPOSURE 1, SPAN RATING 32/16). GLUE AND NAIL AT ALL FRAMED PANEL EDGES WITH BD AT 6" O.C. AND TO ALL INTERMEDIATE FRAMING AT 12" O.C.
- 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.
- 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.
- 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%.
- ALL POSTS ABOVE SHALL BEAR FULLY ON BEAMS OR POSTS BELOW AND SHALL HAVE CONTINUOUS FULL BEARING THROUGH FLOORS TO THE FOUNDATION.
- SPLICE ALL TOP PLATE SPLICES PER DETAIL 10/S4.1.
- 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.
- CONTRACTOR SHALL VERIFY ALL EXISTING FRAMING CALLED OUT ON PLAN. IF DISCREPANCIES ARE FOUND, CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD IMMEDIATELY.
- REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



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

REVISIONS:

1	Corrections	Feb. 19, 2019
2	Corrections	Mar. 21, 2019
3	Corrections	July 12, 2019

DPD:

PROJECT TITLE:
LBH Residence
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ARCHITECT:
Stillwell Hanson Architects
 46 Etruria Street, Suite 200
 Seattle, WA 98109
 PH 206 297 1504

ISSUE:
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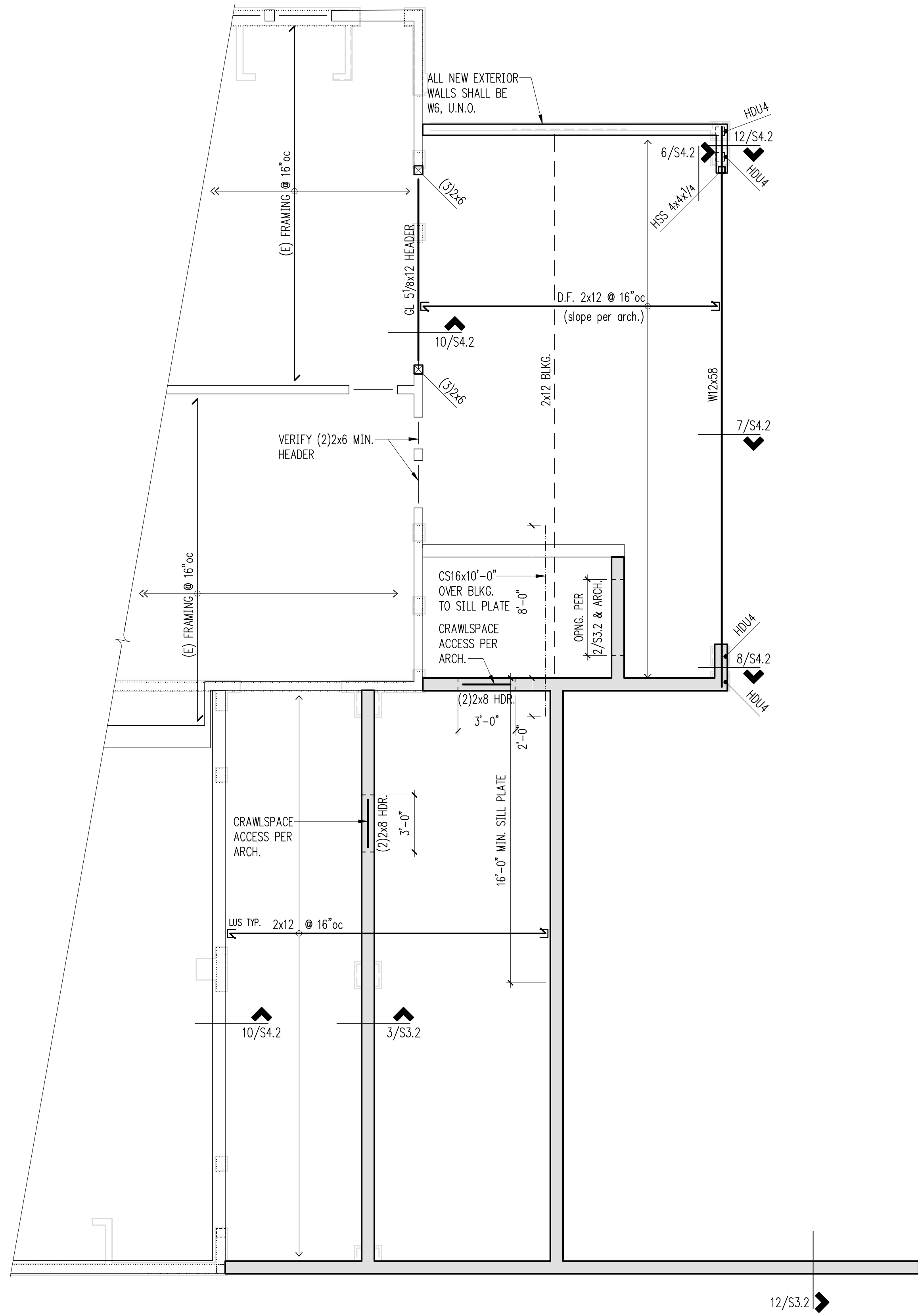
SHEET TITLE:
Main Floor Framing Plan

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

DATE:
 November 30, 2018

PROJECT NO:
 00834-2018-08

SHEET NO:
 S2.2

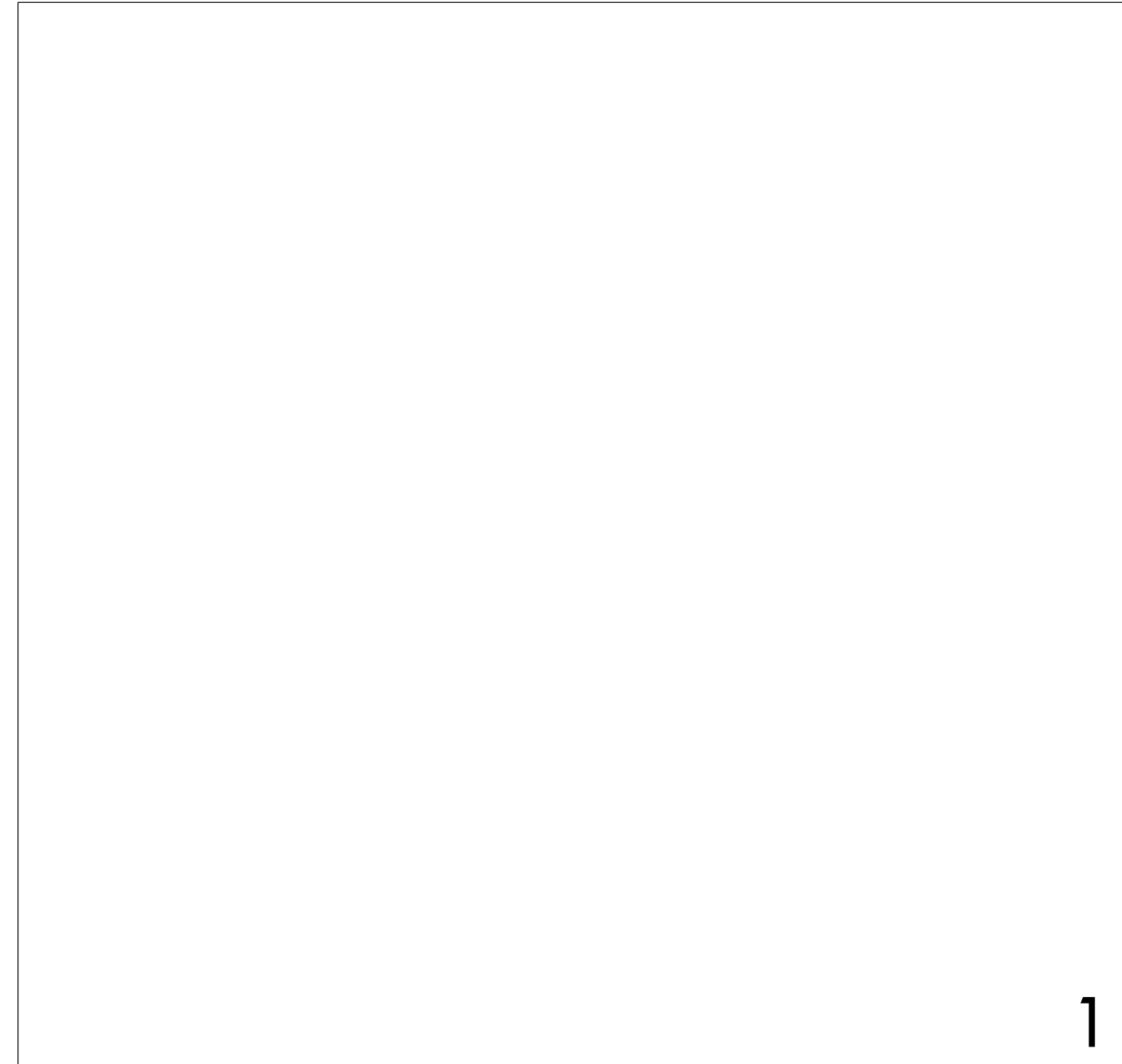


Main Floor Framing Plan
 Scale: 1/4" = 1'-0"



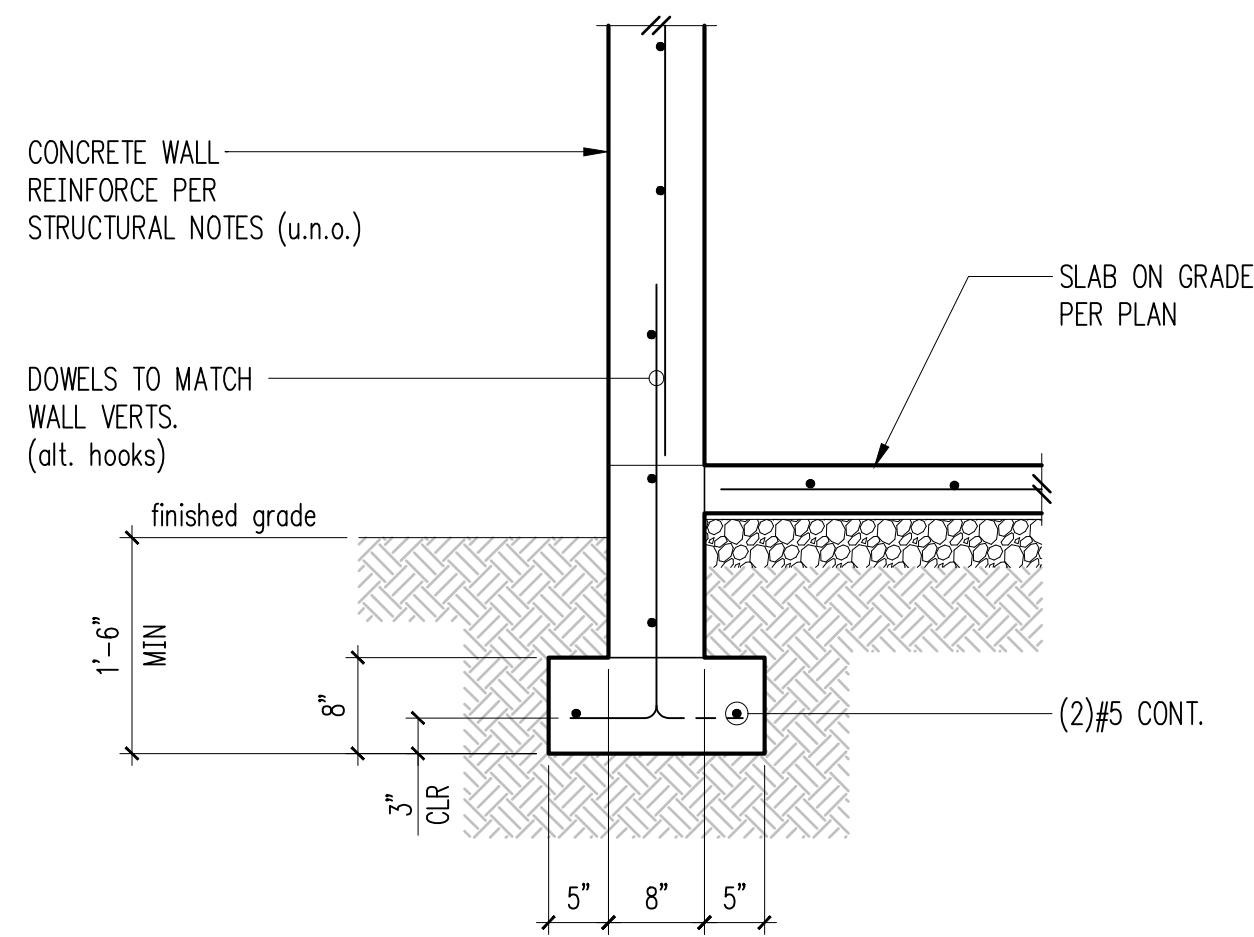


DRAWN: RJ
DESIGN: KWW
CHECKED: KMR
APPROVED: DJS



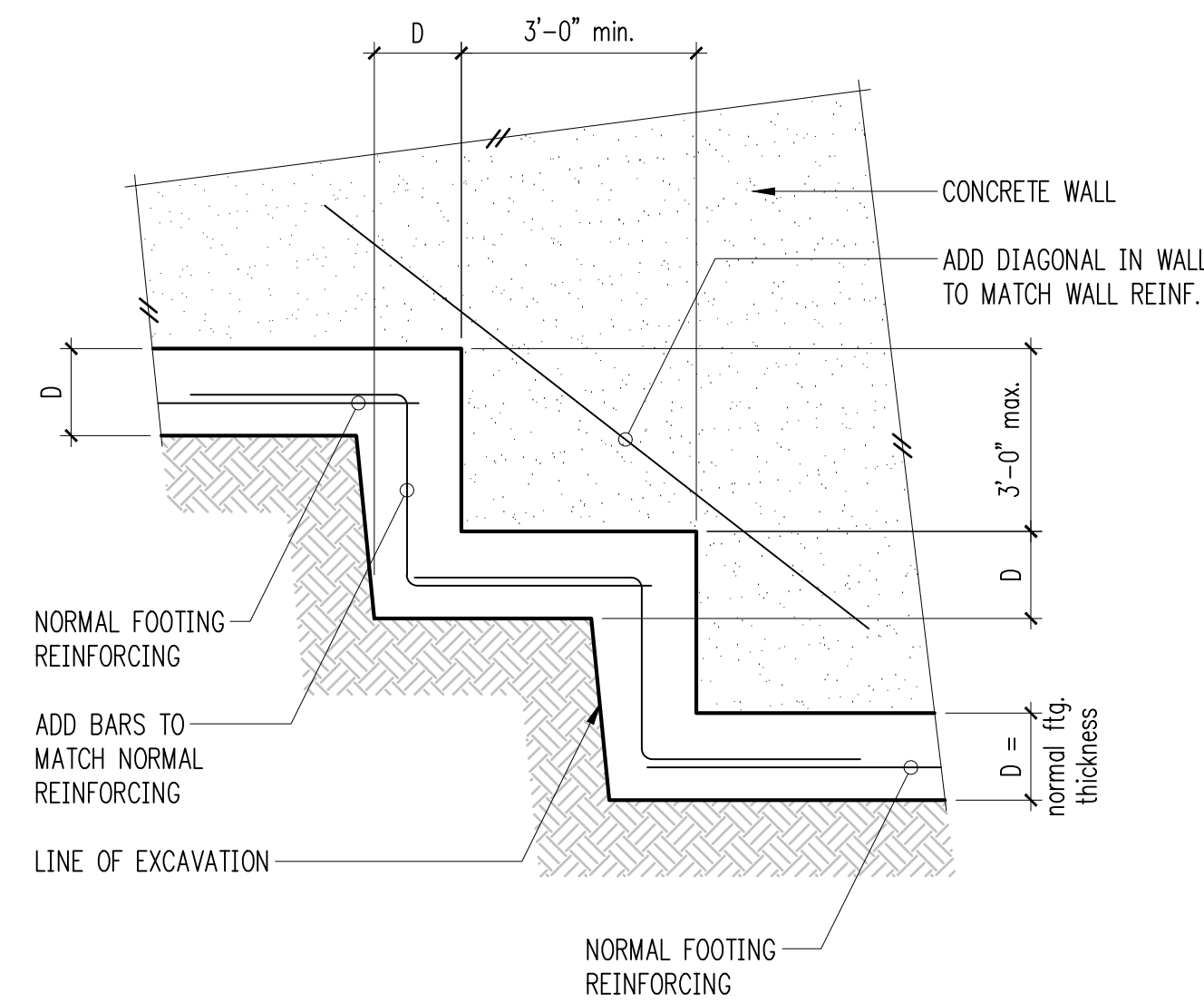
1

Typical Turned-Down Slab Edge 2



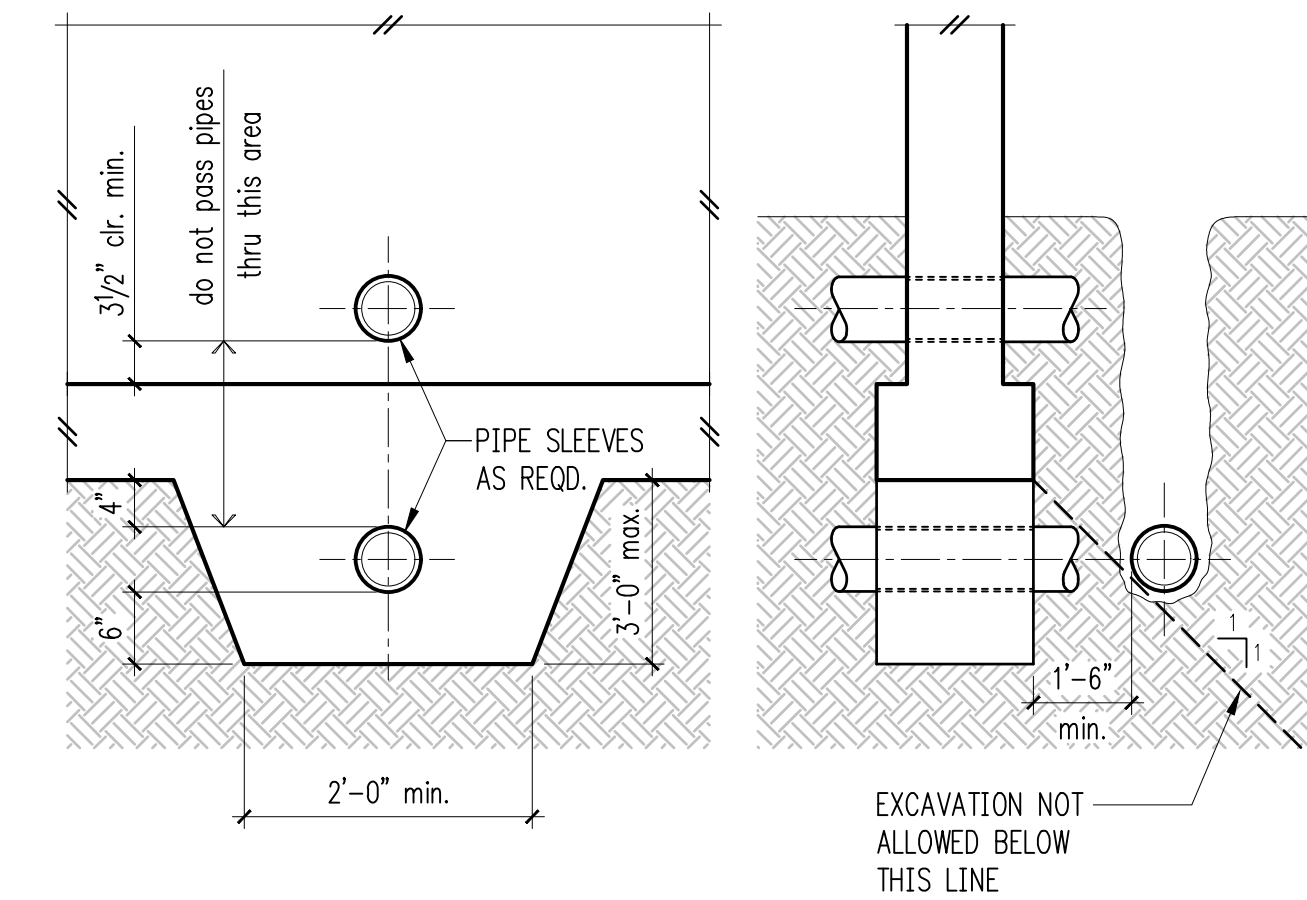
3
5

Typical Exterior Concrete Wall Footing 6



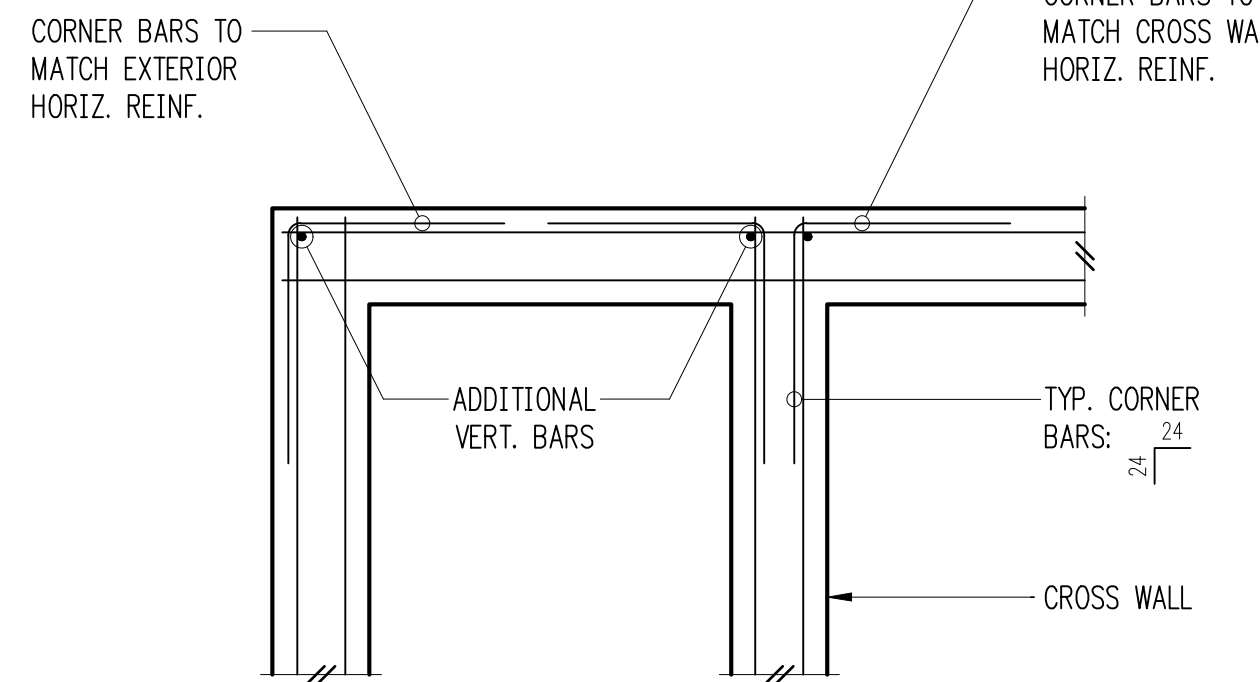
3

Typical Stepped Footing 3

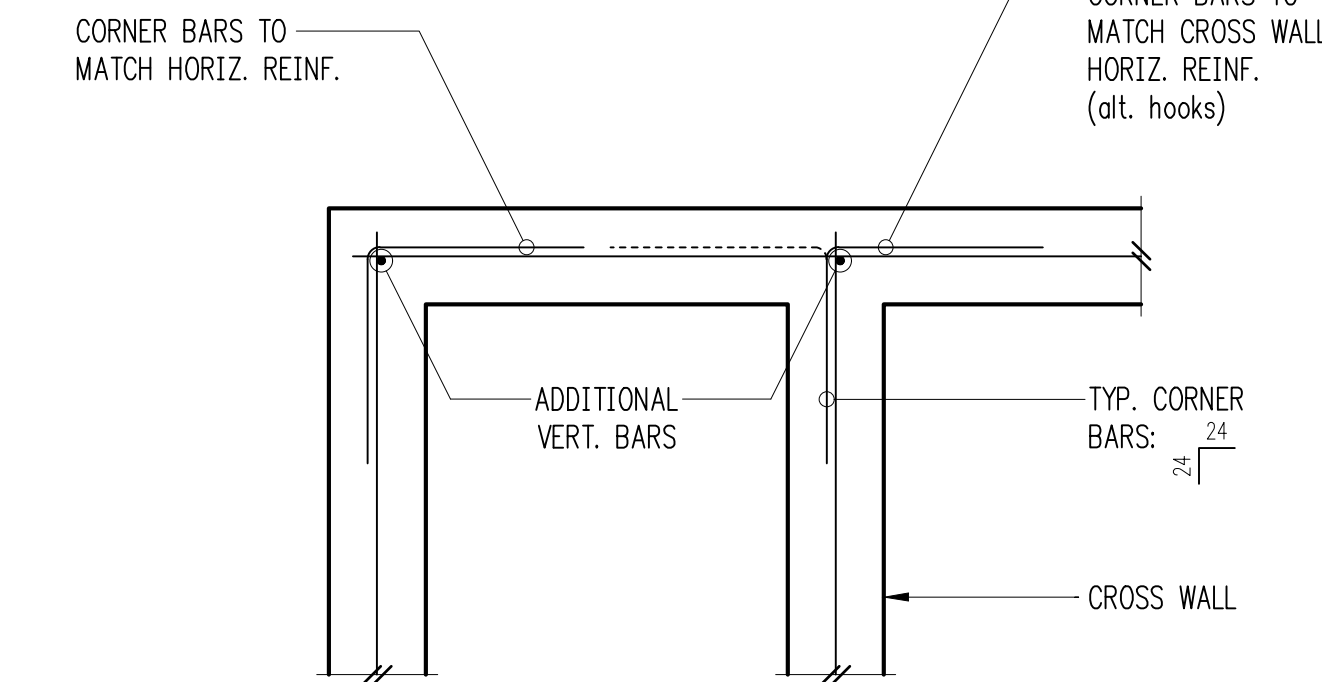


4

Pipe and Trench Locations 4

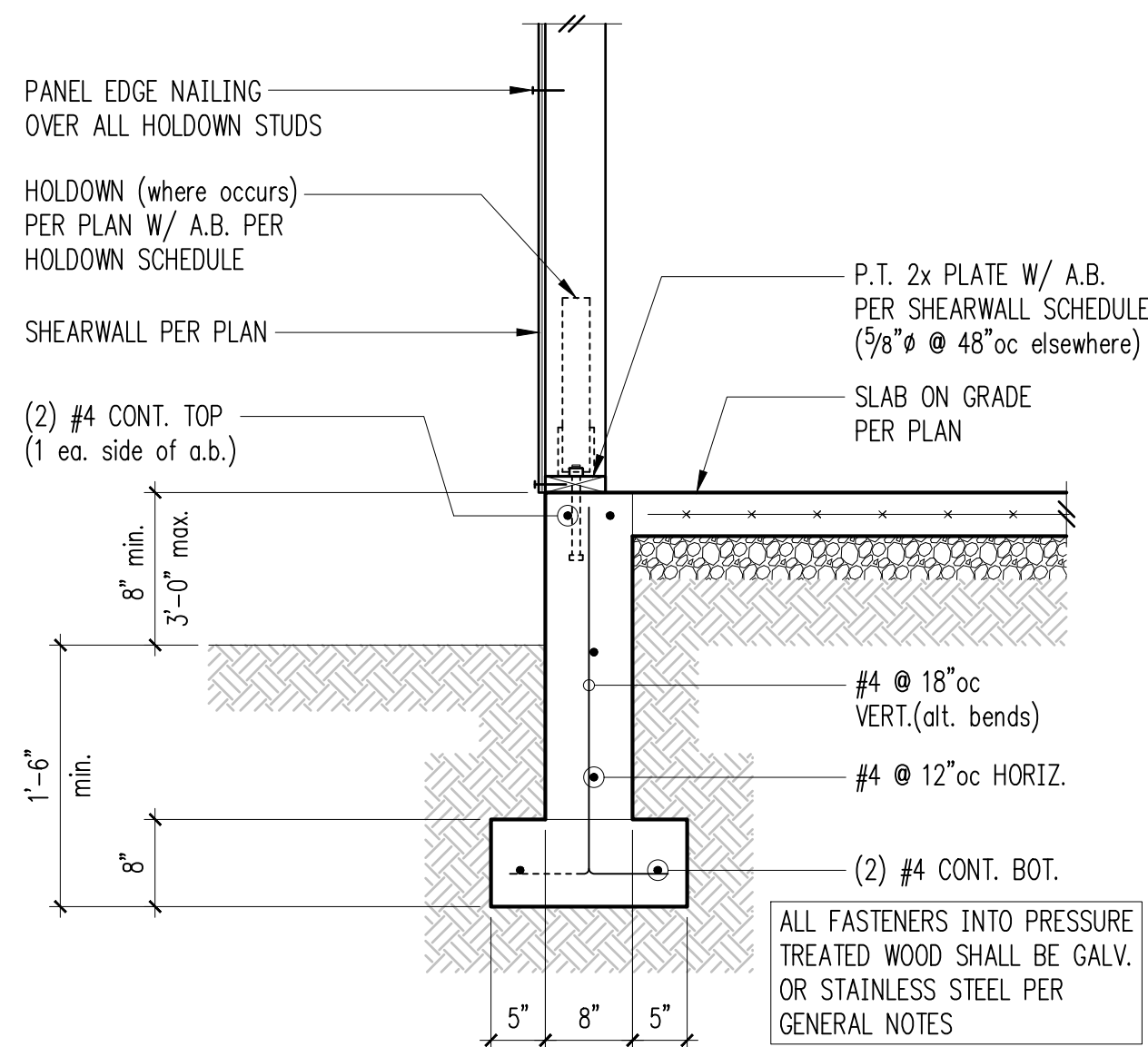


Double Curtain



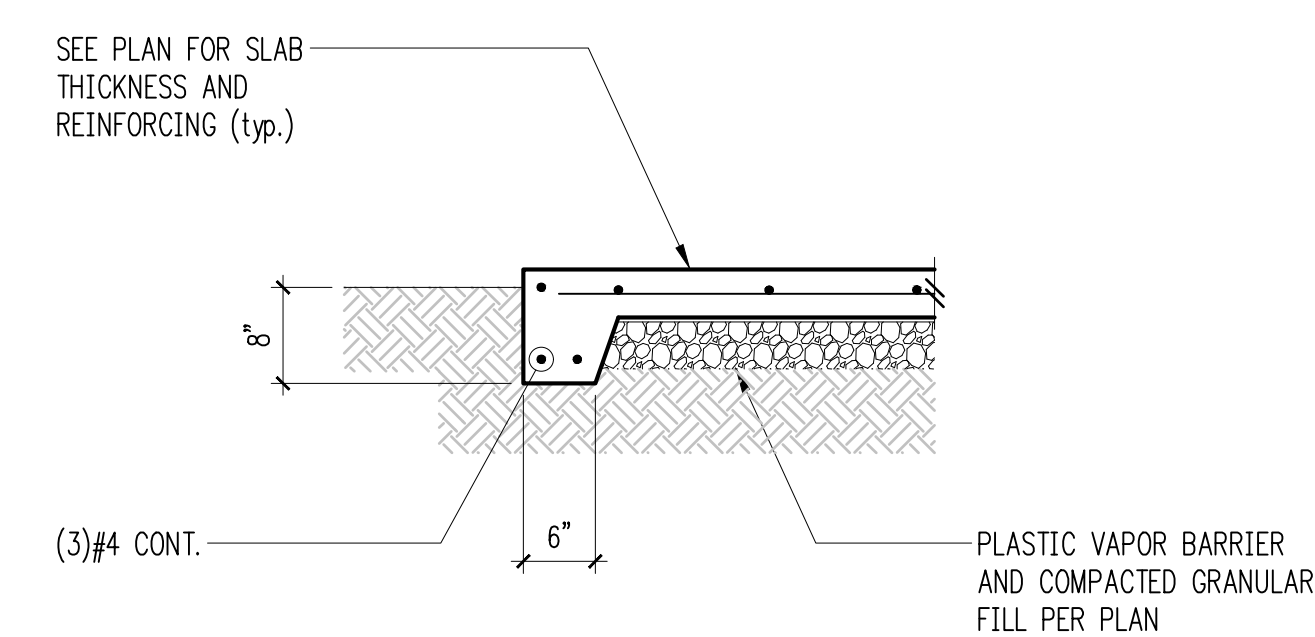
Single Curtain

Typical Corner Bars at Concrete Walls and Footings 8

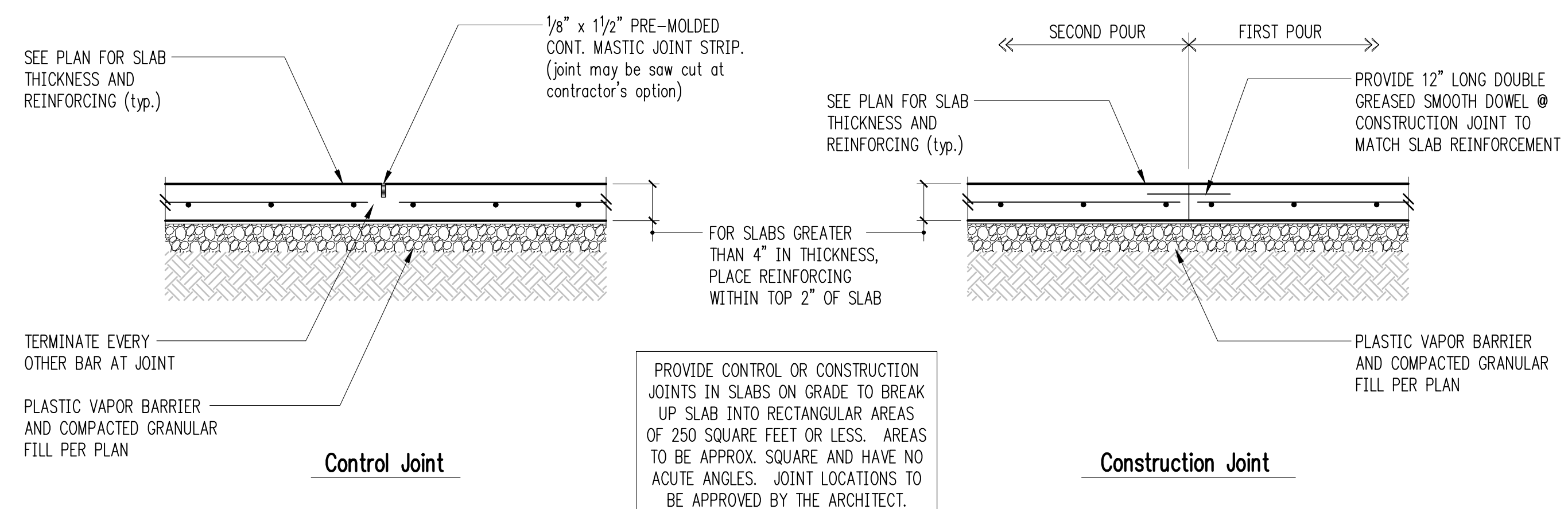


9

Exterior Wall w/ Slab on Grade 9



Typical Slab Edge 10



Control Joint

Construction Joint

Typical Slab Joints 12

REVISIONS:

1	Corrections	Feb. 19, 2019
2	Corrections	Mar. 21, 2019
3	Corrections	July 12, 2019

DPD:

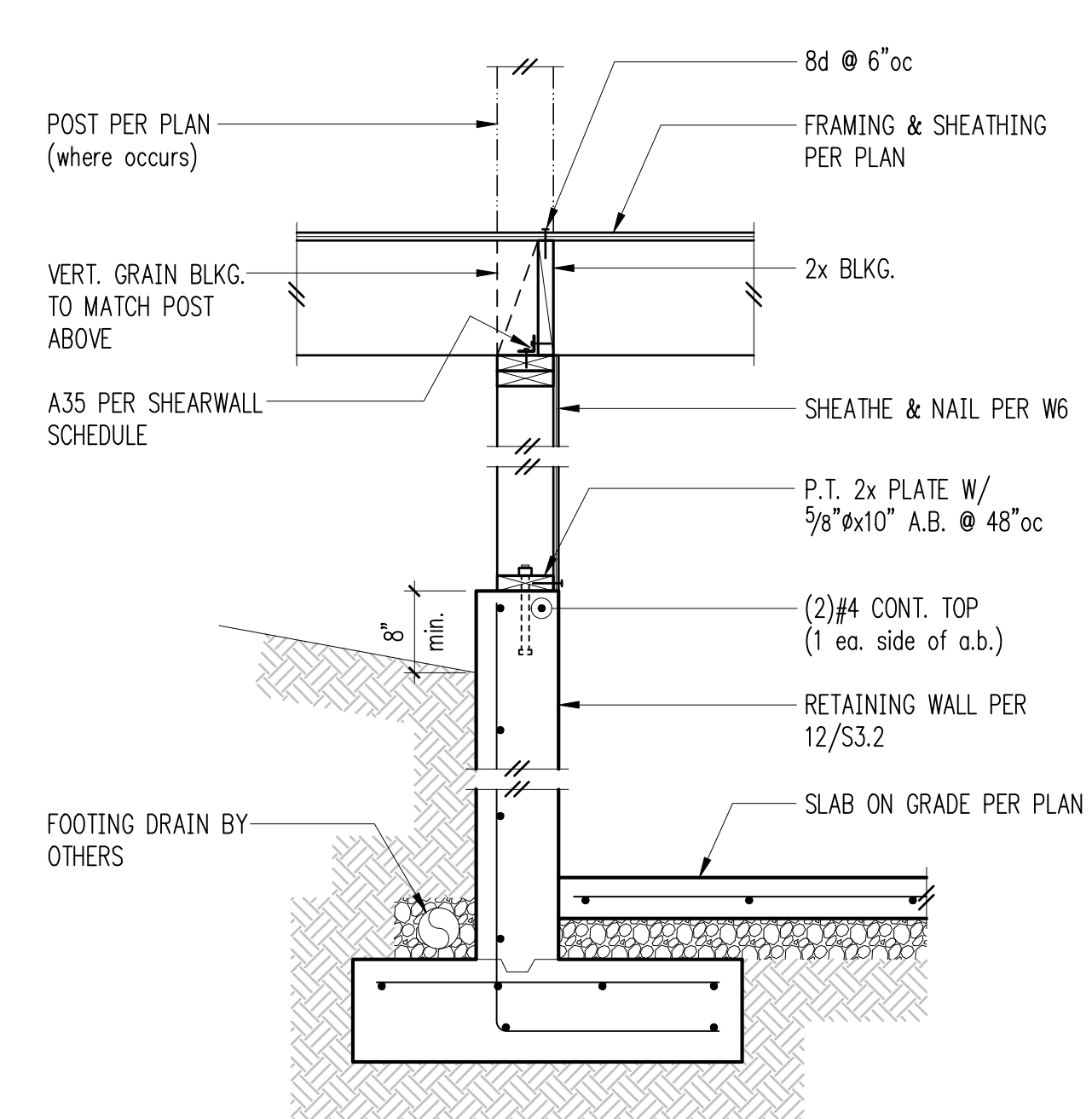
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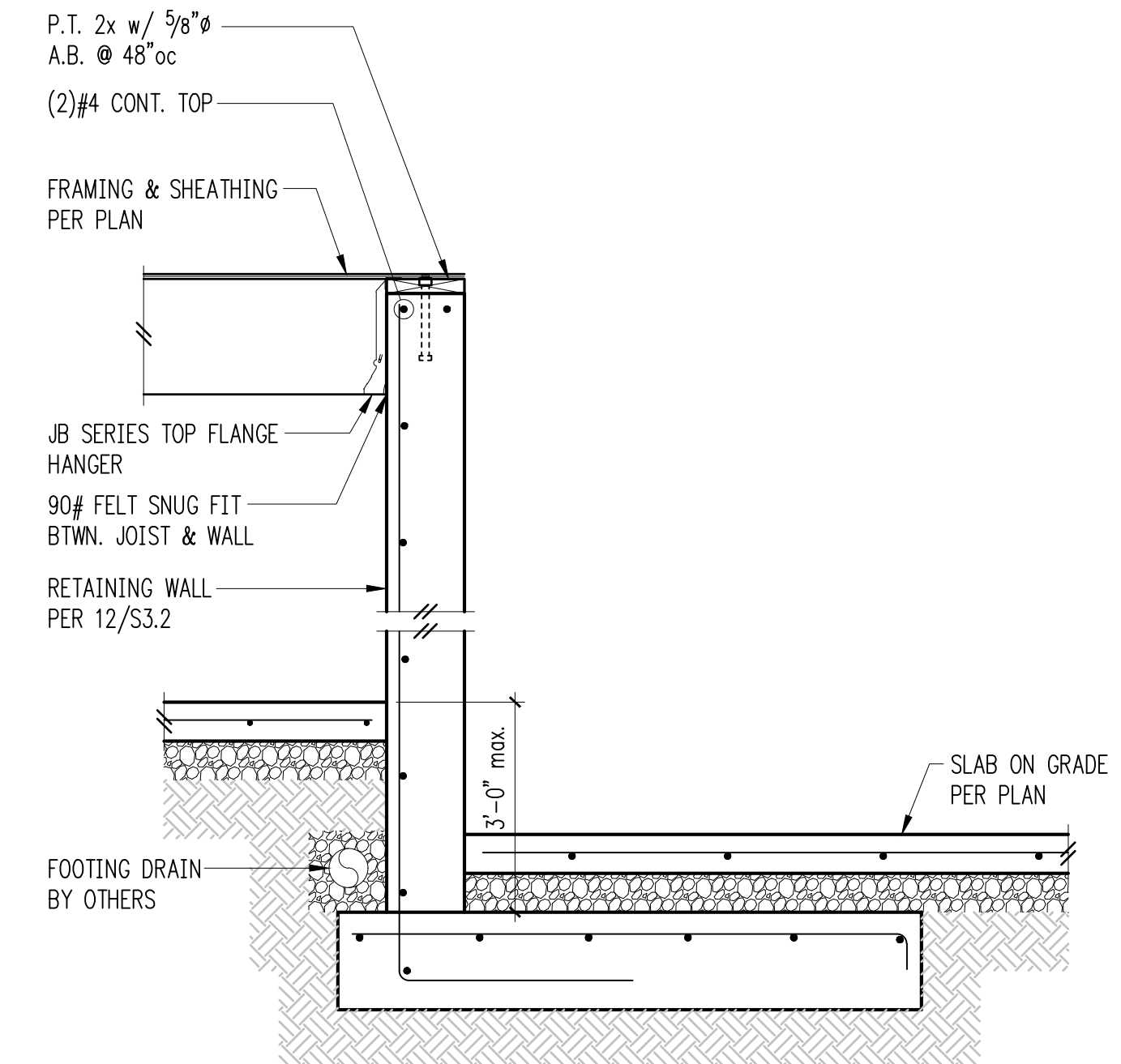
ISSUE:
Permit
SHEET TITLE:

Typical Concrete Details
SCALE: 3/4" = 1'-0" U.N.O.
DATE: November 30, 2018
PROJECT NO: 00834-2018-08
SHEET NO:

S3.1



3



4

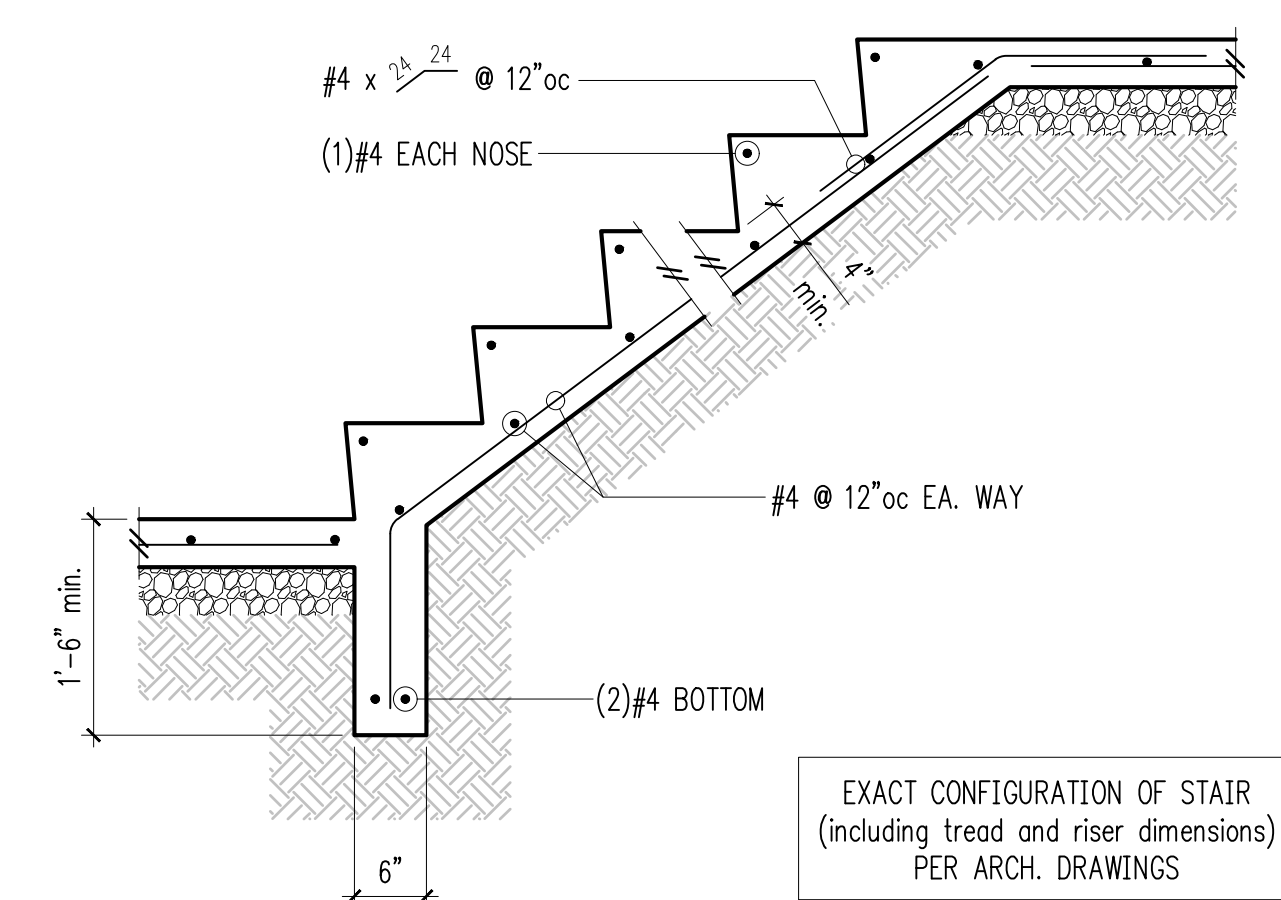
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5

6

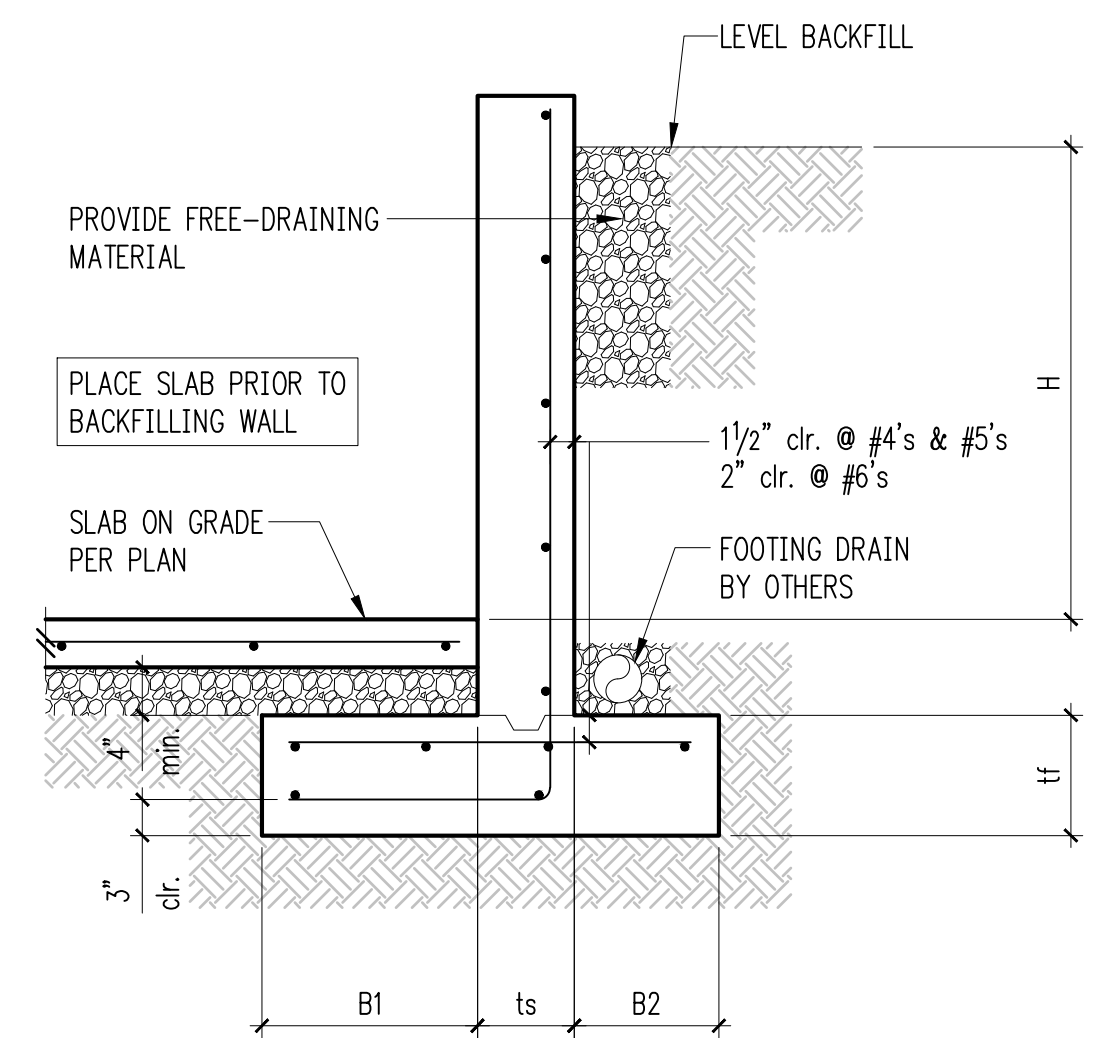
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8



9

Typical Stair On Grade 10



Retaining Wall Schedule W/ Slab

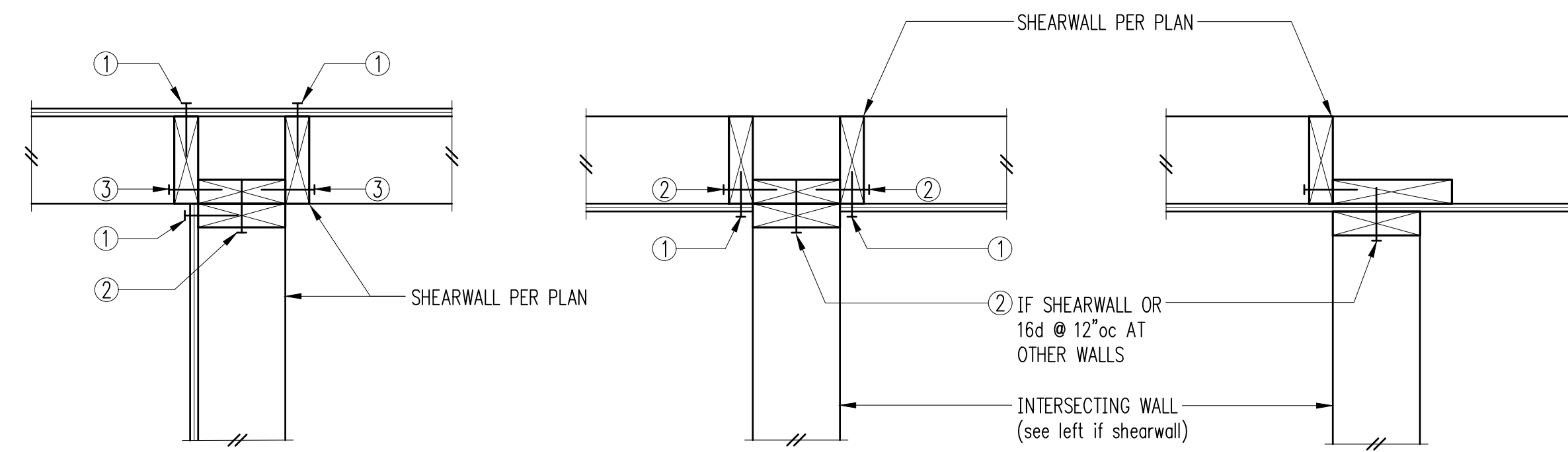
H (ft.)	B1	ts	B2	hf	Stem Reinforcing		Footing Reinforcing	
					Vert.	Horiz.	Top	Longit.
3'-0"	5"	8"	5"	8"	#4 @ 18"oc	#4 @ 12"oc	-	(2)#4
4'-0"	1'-0"	8"	5"	8"	#4 @ 18"oc	#4 @ 12"oc	-	(2)#4
6'-0"	2'-3"	8"	5"	10"	#4 @ 12"oc	#4 @ 12"oc	-	(4)#4
8'-0"	2'-9"	8"	1'-0"	12"	#5 @ 12"oc	#4 @ 12"oc	#4 @ 18"oc	(6)#5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

12

	A	B	C
PLAN VIEW			
SECTION			
# OF WOOD BMS (LVL)	2-1 3/4"	3-1 3/4"	4-1 3/4"
SDS SCREW SIZE	1/4" x 3 1/2"	1/4" x 4 1/2"	1/4" x 6"
# OF SDS SCREWS	3	3	3
SPACING OF SDS SCREWS	16"oc	8"oc	6"oc

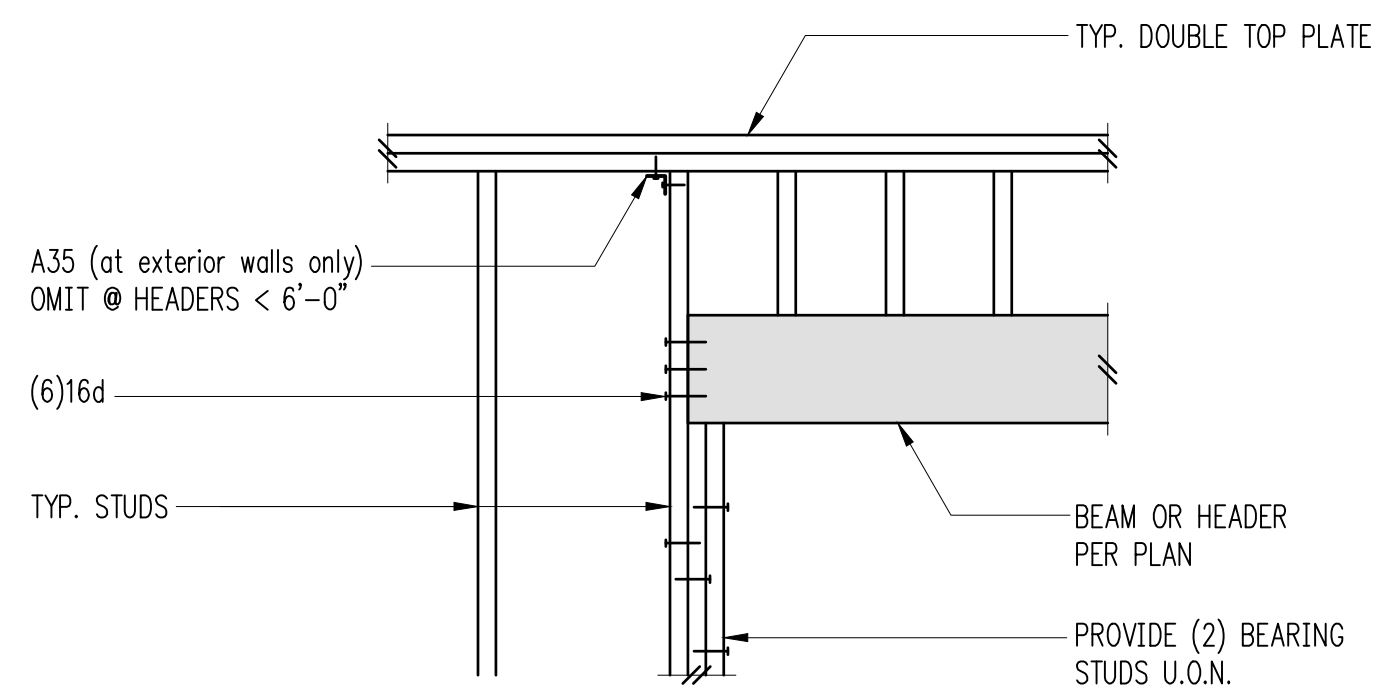
NOTES:
- MIN. SCREW END DISTANCE = 4"

1 **Sistering Schedule for Multi Beams** **2**



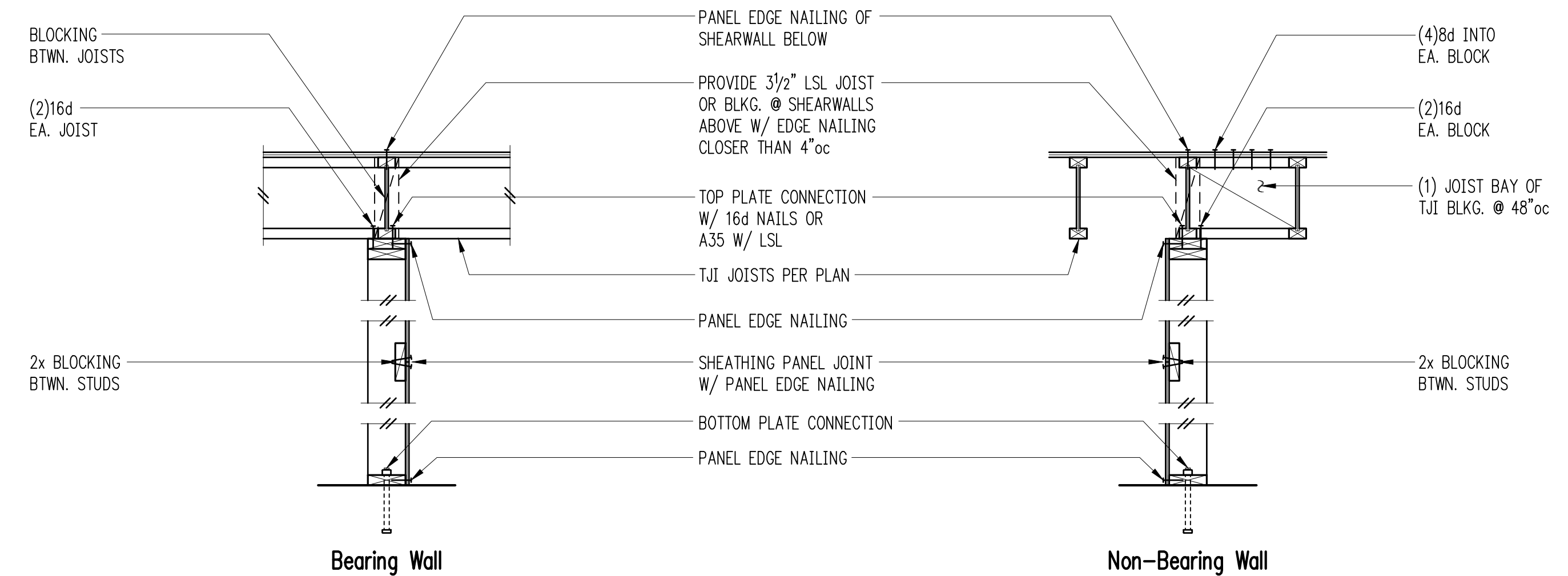
- ① PLYWOOD PANEL EDGE NAILING PER SHEARWALL SCHEDULE
- ② BASE PLATE NAILING PER SHEARWALL SCHEDULE
- ③ 16d @ 8"oc

4 **Typical Shearwall Intersections**



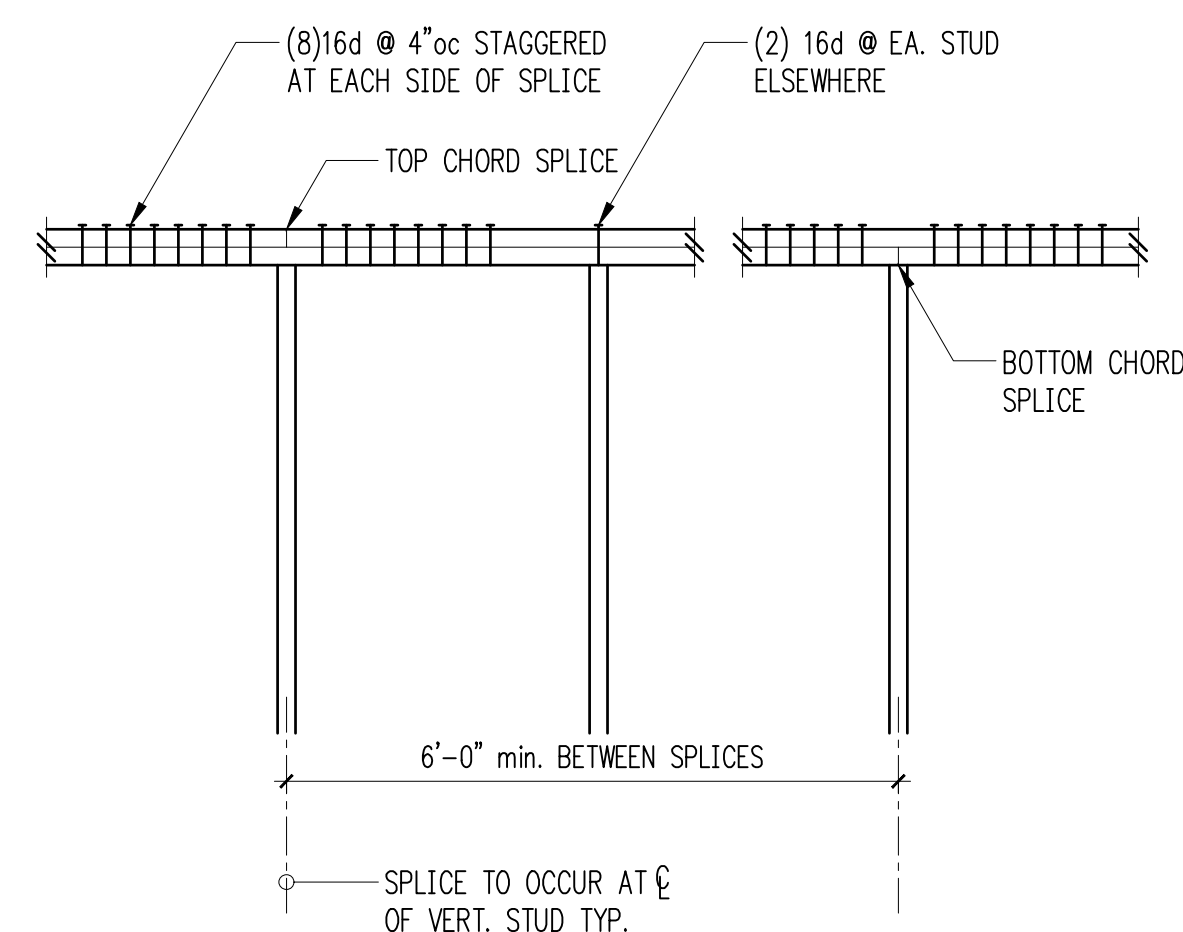
3
5

6 **Typical Header Support w/2 Bearing Studs**



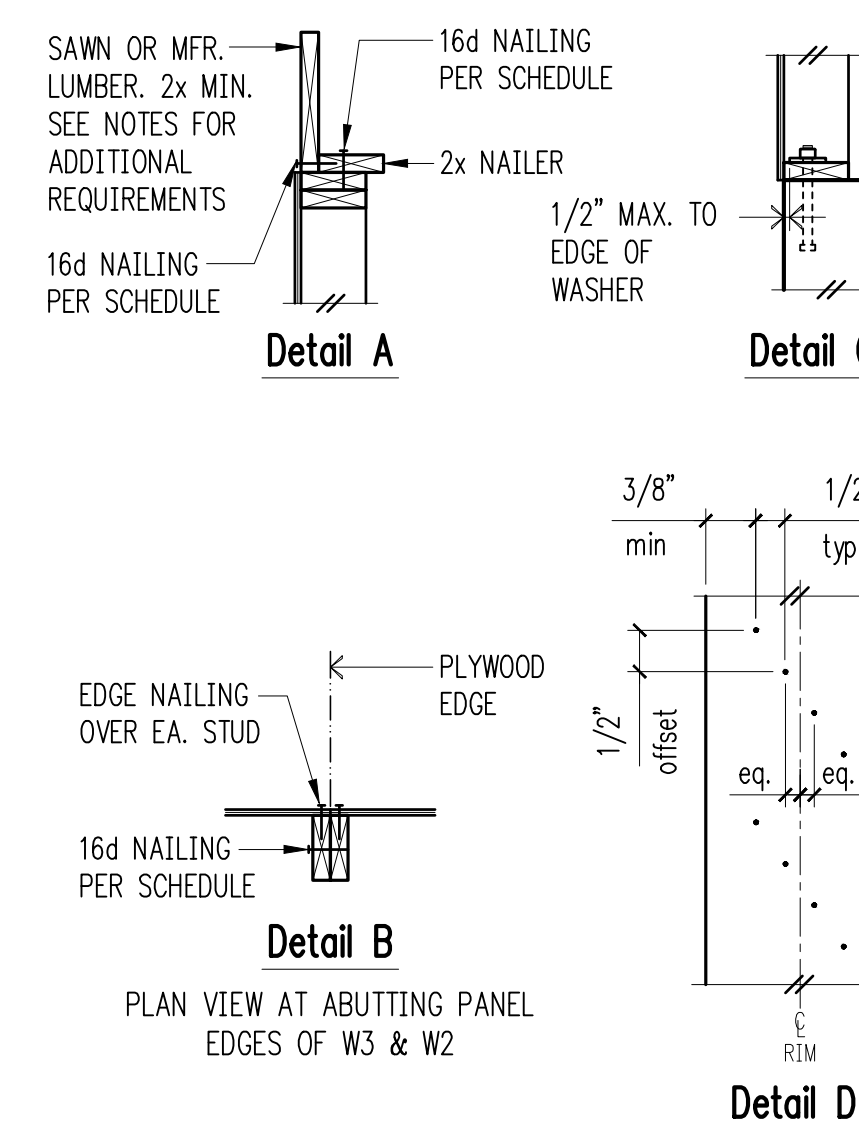
NOTE:
SEE SHEARWALL SCHEDULE FOR ALL NAILING AND CONNECTIONS, NOT OTHERWISE NOTED

8 **Typical Shearwall Construction**



9

10 **Typical Top Plate Splice**

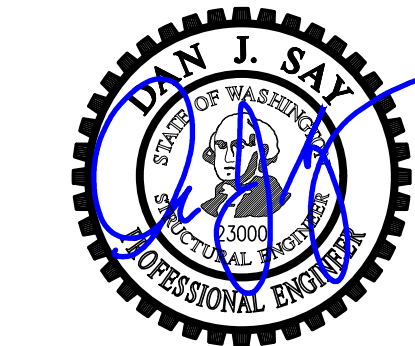


Shearwall Schedule ①②③④⑤⑥⑦

Mark	Sheathing	Panel Edge Nailing	Top Plate Connection		Base Plate Connection	
			if TJI	if Wood	at Wood	at Concrete
W6	15/32" CDX PLYWOOD	8d @ 6"oc	16d @ 6"oc	A35 @ 24"oc	16d @ 6"oc	5/8" A.B. @ 48"oc
W4	15/32" CDX PLYWOOD	8d @ 4"oc	16d @ 4"oc	A35 @ 16"oc	(2)rows 16d @ 6"oc	5/8" A.B. @ 32"oc
W3	15/32" CDX PLYWOOD	8d @ 3"oc	(2)rows 16d @ 4"oc	A35 @ 12"oc	(2)rows 16d @ 6"oc	5/8" A.B. @ 24"oc
W2	15/32" CDX PLYWOOD	8d @ 2"oc	(2)rows 16d @ 4"oc	A35 @ 9"oc	(2)rows 16d @ 4"oc	5/8" A.B. @ 16"oc

- ① BLOCK PANEL EDGES WITH 2x MIN. LAID FLAT AND NAIL PANELS TO INTERMEDIATE SUPPORTS WITH 8d @ 12"oc.
- ② 8d NAILS SHALL BE 0.131" x 2 1/2" (common) - 16d NAILS SHALL BE 0.135" x 3 1/2" (box)
- ③ EMBED ANCHOR BOLTS AT LEAST 7". EXPANSION BOLTS MAY BE SUBSTITUTED FOR ANCHOR BOLTS WITH 4" EMBEDMENT. TITEN HD SCREW ANCHORS MAY BE SUBSTITUTED FOR ANCHOR BOLTS W/ 4" EMBEDMENT. ALL BOLTS SHALL HAVE 3" x 3" x 1/4" MIN. PLATE WASHERS. PLATE WASHERS SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SIDE WITH SHEATHING. SEE DETAIL C.
- ④ 3x STUDS OR DOUBLE STUDS NAILED TOGETHER W/ BASE PLATE NAILING ARE REQUIRED AT ABUTTING PANEL EDGES OF W3 AND W2. SEE DETAIL B. WHERE 3x STUDS ARE USED FOR W2, STAGGER NAILS AT ADJOINING PANEL EDGES.
- ⑤ TWO STUDS MINIMUM ARE REQUIRED AT EACH END OF ALL SHEARWALLS AND ALL END STUDS SHALL RECEIVE PANEL EDGE NAILING. SEE PLANS AND HOLDOWN SCHEDULE FOR ALTERNATE REQUIREMENTS.
- ⑥ ALL EXTERIOR WALLS SHALL BE W6, UNLESS NOTED OTHERWISE.
- ⑦ 7/16" O.S.B. MAY BE SUBSTITUTED FOR 15/32" CDX.
- ⑧ LTP4's (HORIZONTAL ORIENTATION) W/ 8d COMMON MAY BE SUBSTITUTED FOR A35's AT CONTRACTORS OPTION.
- ⑨ A 2x NAILER ATTACHED W/ BASE PLATE NAILING PER DETAIL A MAY BE SUBSTITUTED FOR A35's AT CONTRACTORS OPTION.
- ⑩ AT MULTI-ROW NAILING, MINIMUM OFFSET BETWEEN ROWS AND ROW SPACING 1/2", SEE DETAIL D.
- ⑪ PROVIDE (3) ROWS 16d @ 6"oc AT LVL RIMS.

12 **Shearwall Schedule - (Sheathed One Side)**



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

REVISIONS:

1	Corrections	Feb. 19, 2019
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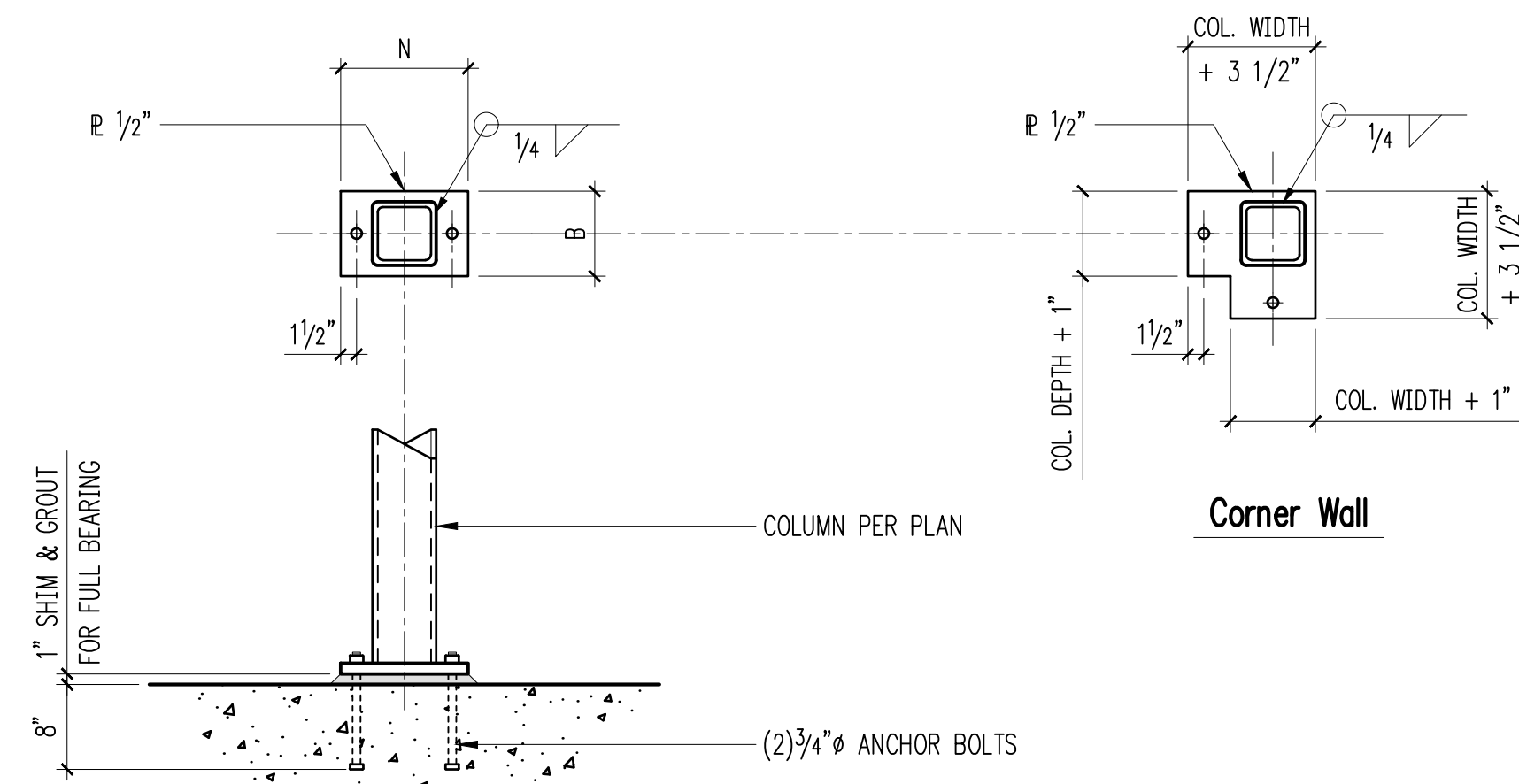
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ARCHITECT:
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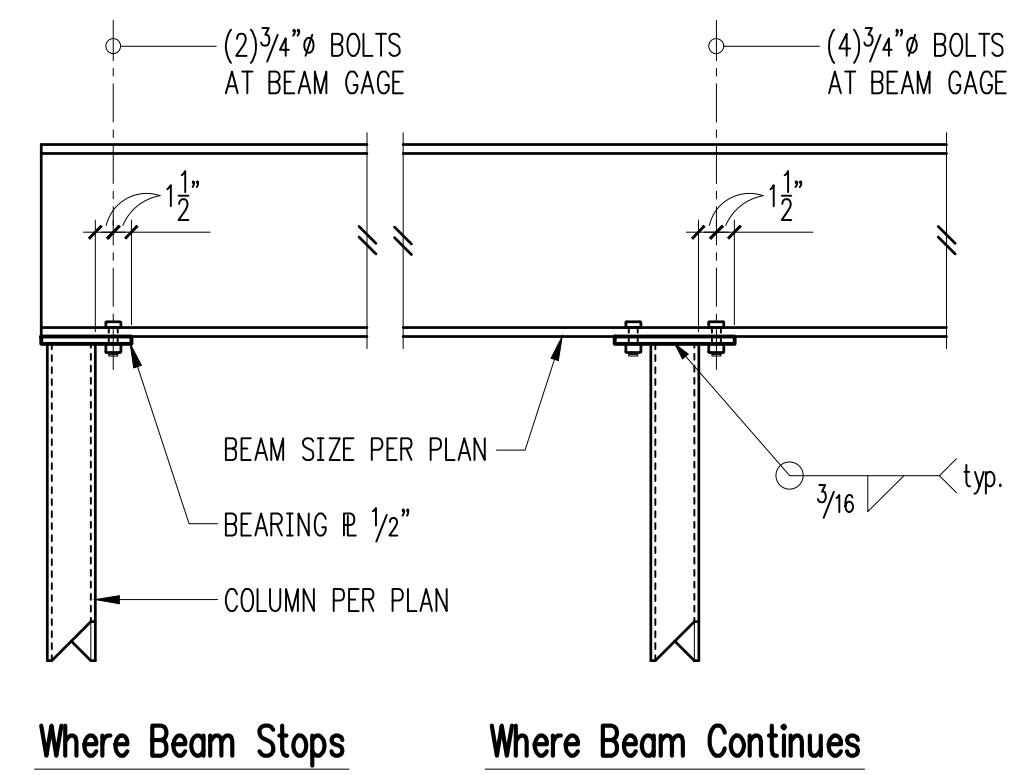
SHEET TITLE:
Typical Wood Framing Details
SCALE: 3/4" = 1'-0" U.N.O.
DATE: November 30, 2018
PROJECT NO: 00834-2018-08
SHEET NO:

S4.1



Baseplate - HSS Column

2



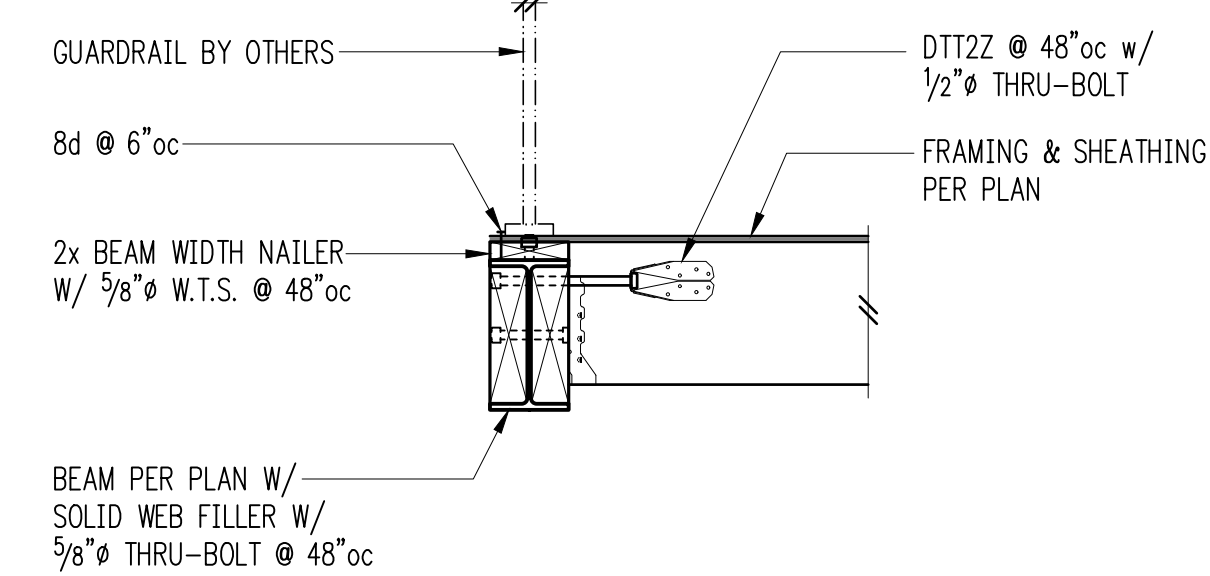
Where Beam Stops Where Beam Continues

NOTE:
BEARING PLATE THICKNESS SHALL BE
3/4" WHERE DEPTH OF SUPPORTED
MEMBER EXCEEDS 24"

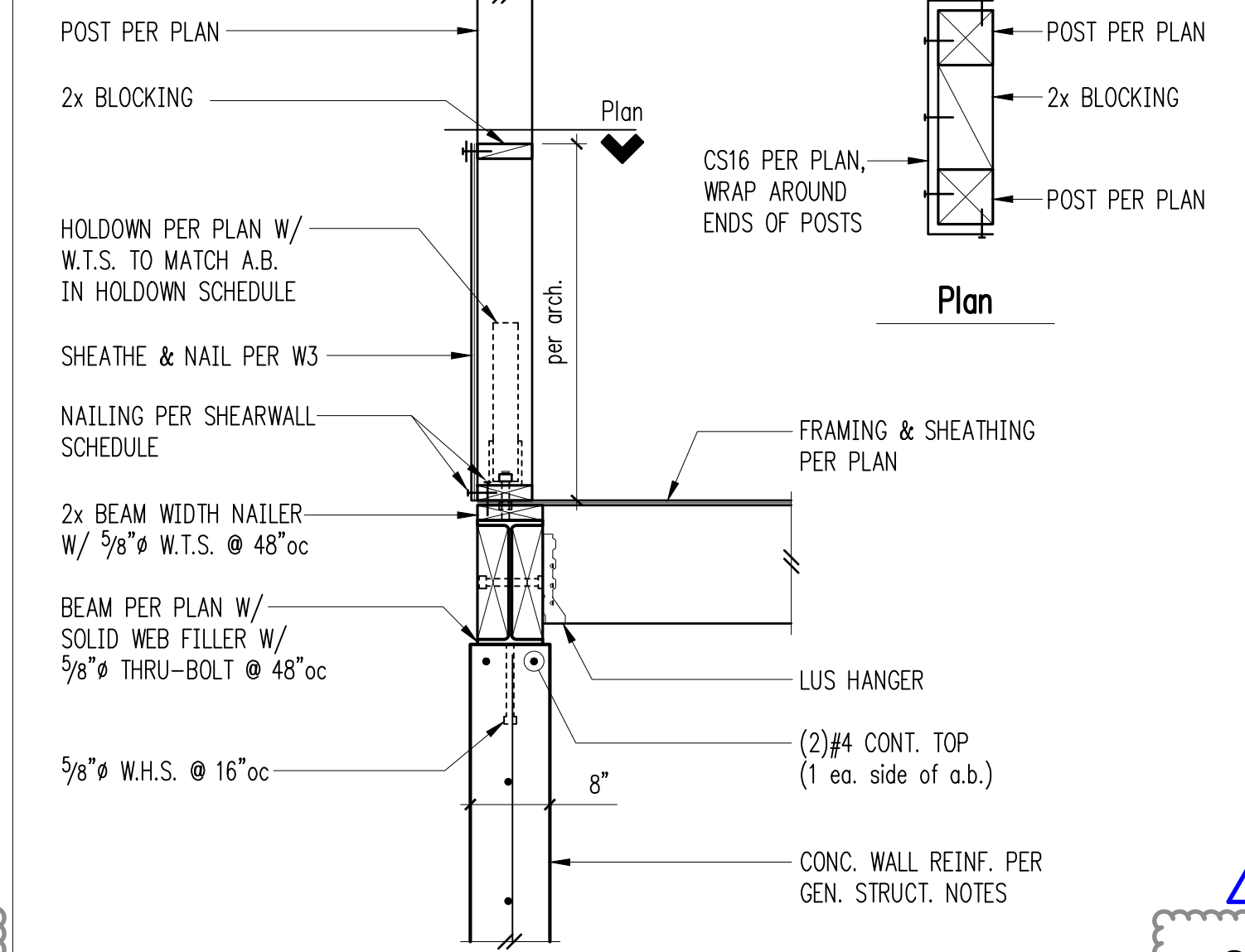
5

Typical Beam Bearing on HSS or Pipe Column

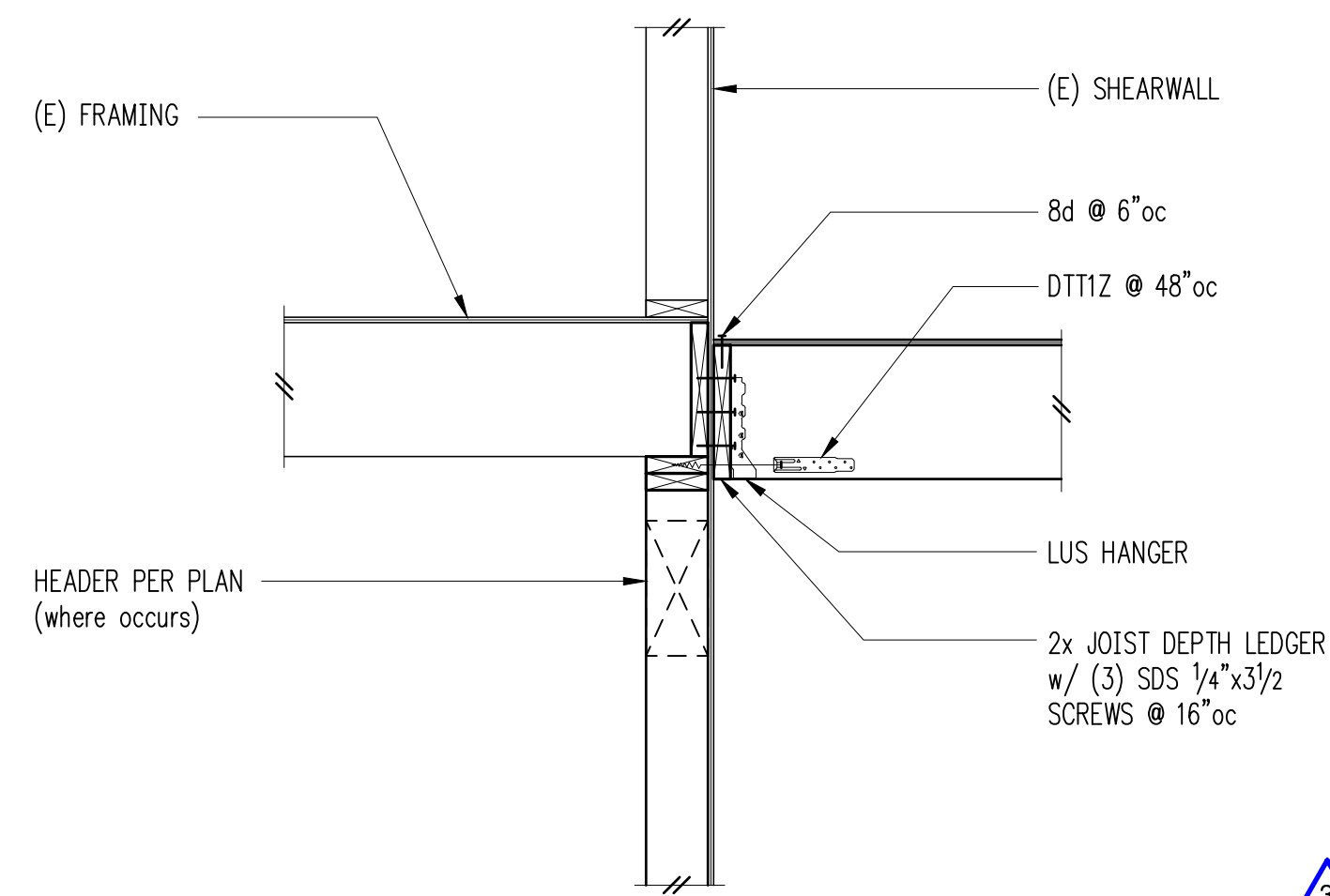
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7

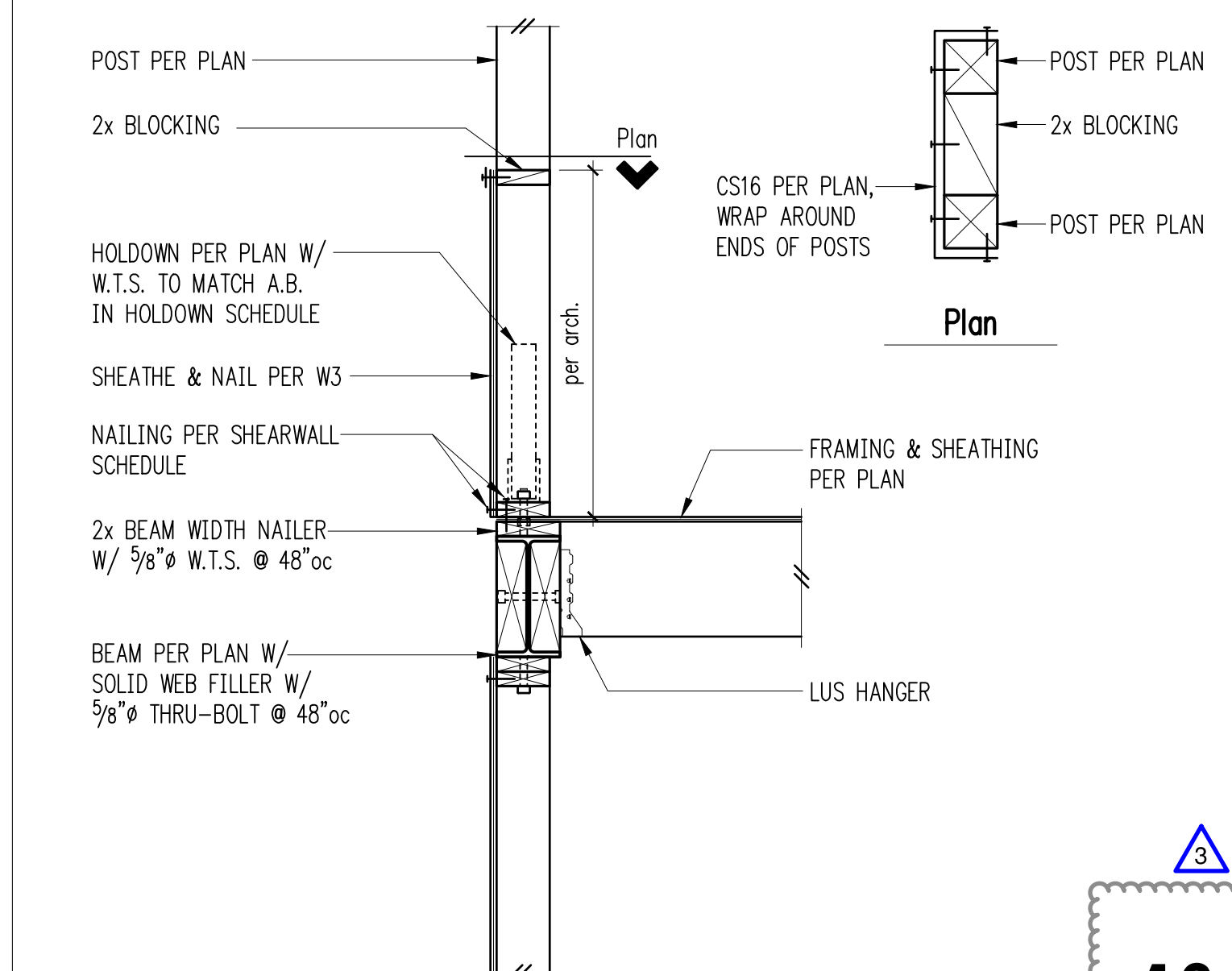


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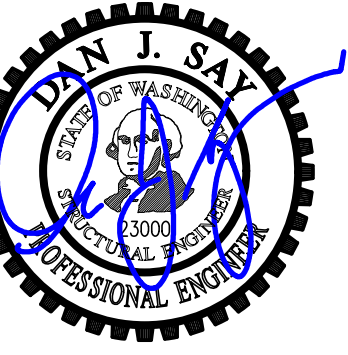
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10



12

11



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

REVISIONS:
1 Corrections Feb. 19, 2019
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ISSUE:
Permit

SHEET TITLE:
Wood Framing Details

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

S4.2

ALTA/NSPS LAND TITLE SURVEY

measure success

BASIS OF BEARINGS

HELD BEARING OF N 00°03'00" W ALONG N-S LINE OF SEC. 1, T.24N., R.4E., W.M. AS SHOWN HEREON AND PER MERCER ISLAND LOT LINE REVISION NO. MI 96-1381 IN VOL. 116 OF SURVEYS, PG 34

REFERENCES

R1. RECORD OF SURVEY, VOL. 116, PG. 034, RECORDS OF KING COUNTY, WASHINGTON.

SURVEYOR'S NOTES

- THE SURVEY SHOWN HEREON WAS PERFORMED IN MARCH OF 2018. THE FIELD DATA WAS COLLECTED AND RECORDED ON MAGNETIC MEDIA THROUGH AN ELECTRONIC THEODOLITE. THE DATA FILE IS ARCHIVED ON DISC OR CD. WRITTEN FIELD NOTES MAY NOT EXIST.
- ALL MONUMENTS SHOWN HEREON WERE LOCATED DURING THE COURSE OF THIS SURVEY UNLESS OTHERWISE NOTED.
- SUBJECT PROPERTY TAX PARCEL NO. 531510-0125.
- APPROXIMATE SUBJECT PROPERTY UPLAND AREA IS: 30,945 SQ FT +/- (0.71 ACRES)
- FIELD DATA FOR THIS SURVEY WAS OBTAINED BY DIRECT FIELD MEASUREMENTS WITH A CALIBRATED ELECTRONIC 5-SECOND TOTAL STATION AND/OR SURVEY GRADE GPS OBSERVATIONS. ALL ANGULAR AND LINEAR RELATIONSHIPS ARE ACCURATE AND MEET THE STANDARDS SET BY WAC 332-130-090.
- THE PROPERTY DESCRIBED HEREON IS THE SAME AS THE PROPERTY DESCRIBED IN CW TITLE COMPANY, COMMITMENT NO. CK 40190740, WITH AN EFFECTIVE DATE OF JANUARY 29, 2018 AND THAT ALL EASEMENTS, COVENANTS AND RESTRICTIONS REFERENCED IN SAID TITLE COMMITMENT OR APPARENT FROM A PHYSICAL INSPECTION OF THE PROPERTY OR OTHERWISE KNOWN TO ME HAVE BEEN PLOTTED HEREON OR OTHERWISE NOTED AS TO THEIR EFFECT ON THE PROPERTY.
- THE PROPERTY IS LOCATED WITHIN AN AREA HAVING A ZONE DESIGNATION "X", PER THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), ON FLOOD INSURANCE RATE MAP NO. "NOT PRINTED", IN KING COUNTY, STATE OF WASHINGTON, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH THE PROPERTY IS SITUATED.
- ZONING REPORT NOT PROVIDED PER ITEM 6 (a) ALTA/NSPS LAND TITLE SURVEY. OPTIONAL SURVEY RESPONSIBILITIES AND SPECIFICATIONS
- THE TOTAL NUMBER OF STRIPED PARKING SPACES ON THE PROPERTY IS 2 (GARAGE), INCLUDING 0 DESIGNATED DISABLED SPACES.
- THERE IS NO OBSERVED EVIDENCE OF CURRENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS AT THE PROPERTY.
- THERE WAS NO INFORMATION PROVIDED TO US BY THE CONTROLLING JURISDICTION OF PROPOSED CHANGES TO STREET RIGHT OF WAY LINES, NOR ANY OBSERVED EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS AT THE TIME OF OUR SURVEY.
- THERE WAS NO OBSERVED EVIDENCE OF WETLANDS OR WETLAND DELINEATION MARKERS FOUND AT THE TIME OF OUR SURVEY.

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 4°36'00" 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

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

SCHEDULE B ITEMS

- NOTICE OF TAP OR CONNECTION CHARGES WHICH HAVE BEEN OR WILL BE DUE IN CONNECTION WITH DEVELOPMENT OR RE-DEVELOPMENT OF THE LAND AS DISCLOSED BY RECORDED INSTRUMENT. INQUIRIES REGARDING THE SPECIFIC AMOUNT OF THE CHARGES SHOULD BE MADE TO THE CITY/COUNTY/AGENCY. CITY/COUNTY/AGENCY: CITY OF MERCER ISLAND. RECORDED: DECEMBER 6, 1977. RECORDING NO.: 7712060812 (NOT SURVEY RELATED)
- EASEMENT AND THE TERMS AND CONDITIONS THEREOF: GRANTEE: MERCER ISLAND SEWER DISTRICT. PURPOSE: CONSTRUCT AND MAINTAIN 2 SEWER LINES LAID SIDE BY SIDE IN SMALL TRENCH AND ALL NECESSARY APPURTENANCES. AREA AFFECTED: OVER PORTION SECOND CLASS SHORELANDS. RECORDED: JANUARY 18, 1956. RECORDING NO.: 4655703 (BLANKET IN NATURE, OVER 2ND CLASS SHORELANDS ADJOINING, NOT PLOTTABLE)
- EASEMENT AND THE TERMS AND CONDITIONS THEREOF: GRANTEE: MUNICIPALITY OF METROPOLITAN SEATTLE. PURPOSE: SEWER TRUNK LINES WITH MANHOLES. AREA AFFECTED: A PORTION OF SAID PREMISES. RECORDED: NOVEMBER 06, 1968. RECORDING NO.: 6430422 (PLOTTED)
- RESTRICTIVE COVENANT NONUSE OF ACCESSORY DWELLING UNIT AND THE TERMS AND CONDITIONS THEREOF: RECORDED: JANUARY 05, 2006. RECORDING NO.: 20060105000287 (NOT SURVEY RELATED)
- INDEMNIFICATION AND HOLD HARMLESS AGREEMENT AND THE TERMS AND CONDITIONS THEREOF: RECORDED: APRIL 6, 2009. RECORDING NO.: 200904060000391 (NOT SURVEY RELATED)
- JOINT AGREEMENT FOR ADJACENT MOORAGE FACILITY AND BOAT LIFT AND THE TERMS AND CONDITIONS THEREOF: RECORDED: FEBRUARY 25, 2015. RECORDING NO.: 20150225001395 (AGREEMENT FOR DOCK, BLANKET IN NATURE, NOT PLOTTABLE)
- LOCATION OF LATERAL BOUNDARIES OF SECOND CLASS SHORELANDS UNDEFINABLE PER ITEM 12, SCHEDULE B

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'

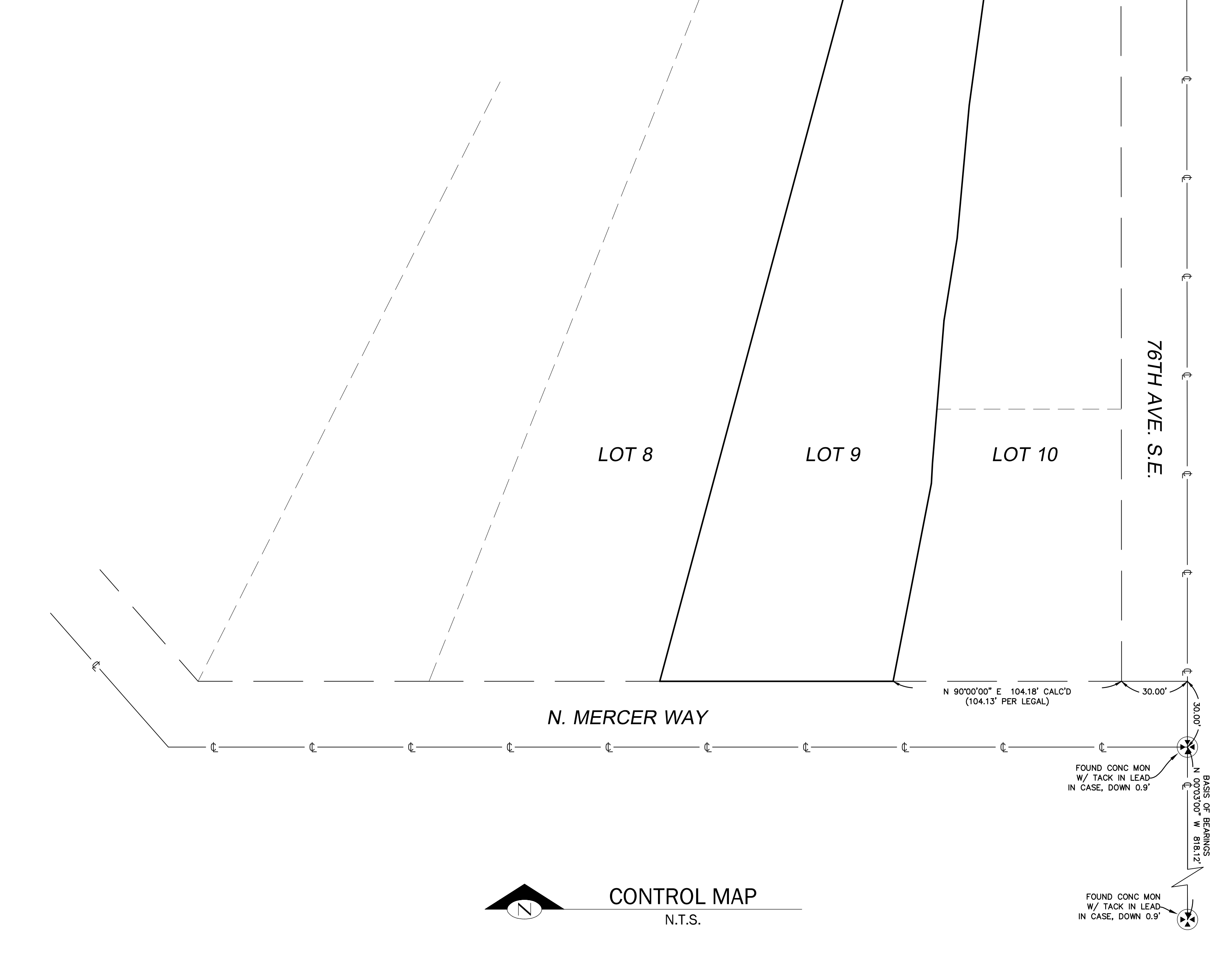
VICINITY MAP

N.T.S.



LEGEND

	FOUND CASSED CONCRETE MONUMENT		TREE (TYPE, SIZE)
	FOUND REBAR & CAP / IRON PIPE		FIRE HYDRANT
	BENCHMARK		WATER METER
	GAS METER		WATER VALVE
	GAS VALVE		FENCE (WIRE)
	MAIL BOX		FENCE (WOOD)
	POST		GAS LINE
	AIR CONDITIONING UNIT		POWER LINE (OVERHEAD)
	POWER HAND HOLE		SEWER LINE
	POWER METER		DRAINAGE LINE
	POWER POLE		WATER LINE
	POWER TRANSFORMER		BUILDING
	SEWER CLEANOUT		RETAINING WALL
	SEWER HAND HOLE		ASPHALT SURFACE
	SEWER MANHOLE		CONCRETE SURFACE
	AREA DRAIN		DECK / DOCK
	CATCH BASIN (TYPE 1)		SLATE SURFACE
	CATCH BASIN (CURB INLET)		GRAVEL SURFACE
	DRAINAGE MANHOLE		ROCKERY
			ITEM 5 - 10' SEWER ESM/T RFC. NO. 6430422



SURVEYOR'S CERTIFICATE

TO: SEAN DAVIS KELL & LORI ANN KELL AND FIRST AMERICAN TITLE COMPANY;

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 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(o), 7(a), 7(b)(1), 7(c), 8, 9, 11, 13, AND 16, OF TABLE A, THEREOF. THE FIELD WORK WAS COMPLETED ON MARCH 19, 2018.

EDWIN J. GREEN JR. CERTIFICATE NO. 15025 DATE 12/05/18

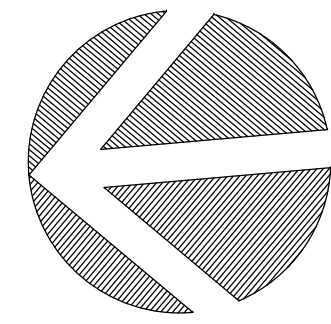
ALTA/NSPS LAND TITLE SURVEY
SE 1/4 OF SW 1/4 SEC 1, TWP. 24 N., RGE. 4 E., W.M.
TAX PARCEL NO. 531510-0125
7450 N. MERCER WAY
MERCER ISLAND ~ WASHINGTON ~ 98040



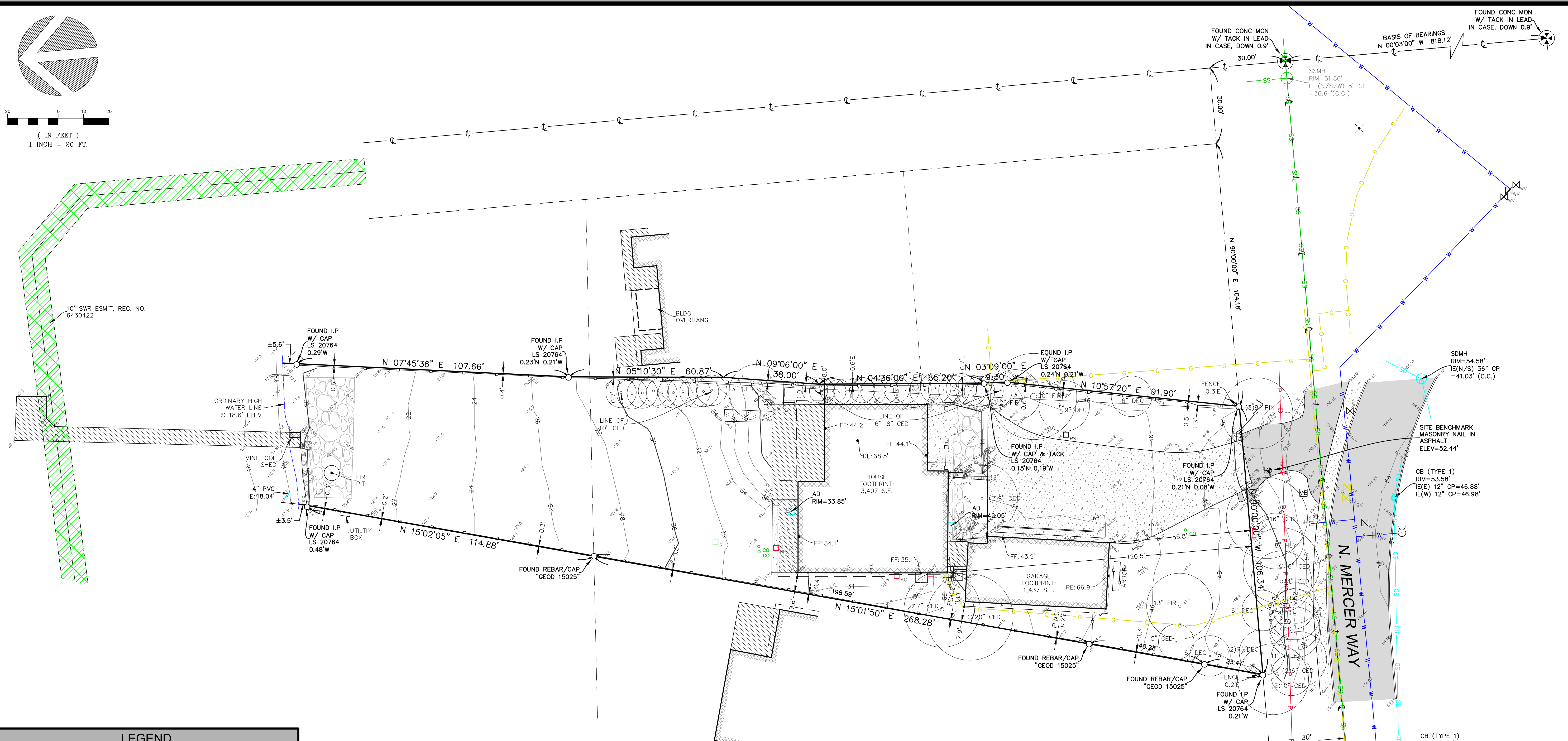
Terrane
10801 Main Street, Suite 102, Bellevue, WA 98004
phone 425.458.4488 support@terrane.net
www.terrane.net

JOB NUMBER:	180467
DATE:	3/27/18
DRAFTED BY:	RLS
CHECKED BY:	EJG/TMM
SCALE:	N.T.S.
REVISION HISTORY	
SHEET NUMBER	
1 OF 2	

ALTA/NSPS LAND TITLE SURVEY



(IN FEET)
1 INCH = 20 FT.

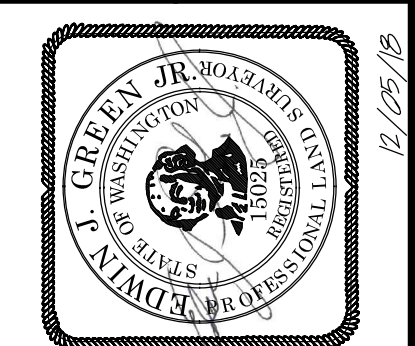


LEGEND

- | | | | |
|--|-----------------------------|--|--|
| | FOUND CASIED CONCRETE MONUM | | TREE (TYPE, SIZE) |
| | FOUND REBAR & CAP / IRON PI | | FIRE HYDRANT |
| | BENCHMARK | | WATER METER |
| | GAS METER | | WATER VALVE |
| | GAS VALVE | | FENCE (WIRE) |
| | MAIL BOX | | FENCE (WOOD) |
| | POST | | GAS LINE |
| | AIR CONDITIONING UNIT | | POWER LINE (OVERHEAD) |
| | POWER HAND HOLE | | SEWER LINE |
| | POWER METER | | DRAINAGE LINE |
| | POWER POLE | | WATER LINE |
| | POWER TRANSFORMER | | BUILDING |
| | SEWER CLEANOUT | | RETAINING WALL |
| | SEWER HAND HOLE | | ASPHALT SURFACE |
| | SEWER MANHOLE | | CONCRETE SURFACE |
| | AREA DRAIN | | DECK / DOCK |
| | CUVERT | | SLATE SURFACE |
| | CATCH BASIN (TYPE 1) | | GRAVEL SURFACE |
| | CATCH BASIN (CURB INLET) | | ROCKERY |
| | DRAINAGE MANHOLE | | ITEM 5 - 10' SEWER ESM'T
REC. NO. 6430422 |

measure success

ALTA/NSPS LAND TITLE SURVEY
SE 1/4 OF SW 1/4 SEC 1, TWP. 24 N., RGE. 4 E., W.M.
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Terrane
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phone 425.458.4498 support@terrane.net
www.terrane.net

JOB NUMBER:	180467
DATE:	3/26/18
DRAFTED BY:	RLS
CHECKED BY:	EJG/TMM
SCALE:	1" = 20'
REVISION HISTORY	
SHEET NUMBER	
2 OF 2	