

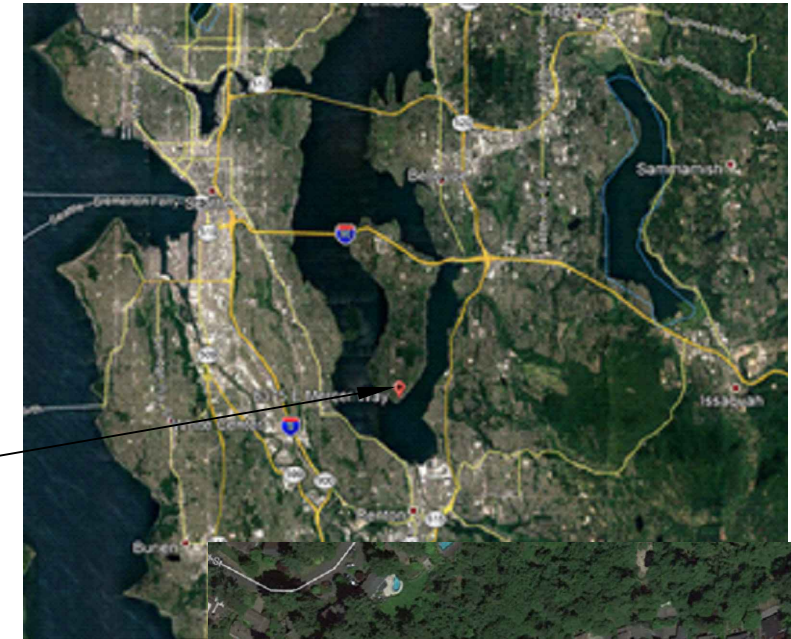
East Mercer Housing Development

Vibro Piers

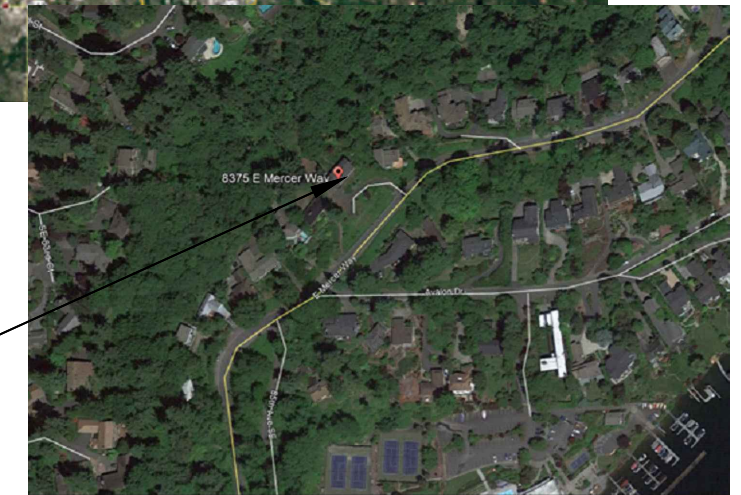
PREPARED FOR:

**Yuanjuan Chen
8375 E. Mercer Way
Mercer Island, WA 98040**

VICINITY MAP



Project Location

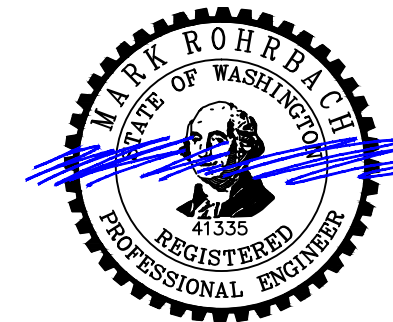


Project Location

SHEET INDEX

- HBI-1 Title Sheet
- HBI-2 Site Exploration Plan and Utility Layout
- HBI-3 Notes
- HBI-4 Standard Details
- HBI-5 General Layout

ENGINEER OF RECORD



Exp. Date: 6/14/2019

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USE OF PROPOSALS AND DESIGN

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PROJECT:

East Mercer Housing Development
8375 E. Mercer Way
Mercer Island, WA 98040

SHEET TITLE:

TITLE SHEET

REVISIONS

NO.	BY	REASON	DATE
0	APG	Issued for Review	01/30/18
1	APG	Added Third Residence	04/13/18

DRAWINGS PRINT TO THE SCALE INDICATED WHEN PRINTED AT 11x17

DATE 01/30/2018

RELATED DRWG.

DRWG. NO.

APRVD. BY M. ROHRBACH

HBI-1



Western Region
11180 E. Marginal Way South
Tukwila, WA 98168
Ph 206-223-1732 Fax 206-223-1733



SURVEY LEGEND

ASPH	ASPHALTIC CONCRETE
---	BUILDING LINE
C	CONCRETE CURB
CLF	CHAIN LINK FENCE
CONC	CONCRETE SURFAC
CRW	CONCRETE RETAIN
CW	CONCRETE WALK
---	EASEMENT AREA
⊙	FOUND SURVEY MONUMENT
---	FENCE LINE (CHAIN LINK)
---	FENCE LINE (WOOD)
GM □	GAS METER
HH	HAND HOLE
HYD □	FIRE HYDRANT
ICB	IRRIGATION CONTROL BOX
IP	IRON PIPE
LUM X	LUMINAIRE
MH	MAINTENANCE HOLE
ORP	OVERHEAD POWER
P	PROPERTY LINE
PM □	POWER METER
PPC	POWER POLE
PPC	POWER POLE W/ LIGHT
THH	TELEPHONE HAND HOLE
WMC	WATER METER
V	VALVE

- Legend:**
- BH-1 PanGEO Boring
 - Proposed Residences
 - Recommended Aggregate Pier Area

Approximate Scale 1"=50"

Note: Site Plan modified from Topographic Survey by GeoDimensions, dated 8/25/2014.

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	Proposed Development 8375 & 8383 E Mercer Way Mercer Island, Washington	SITE AND EXPLORATION PLAN
	Project No. 14-206	Figure No. 2

PROJECT: East Mercer Housing Development 8375 E. Mercer Way Mercer Island, WA 98040	SHEET TITLE: SITE EXPLORATION PLAN AND UTILITY LAYOUT	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr><th colspan="4">REVISIONS</th></tr> <tr><th>NO.</th><th>BY</th><th>REASON</th><th>DATE</th></tr> </thead> <tbody> <tr><td>0</td><td>APG</td><td>Issued for Review</td><td>01/30/18</td></tr> <tr><td>1</td><td>APG</td><td>Added Third Residence</td><td>04/13/18</td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	REVISIONS				NO.	BY	REASON	DATE	0	APG	Issued for Review	01/30/18	1	APG	Added Third Residence	04/13/18									<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DATE</td><td>01/30/2018</td> <td>RELATED DRWG.</td><td> </td> </tr> <tr> <td>DRAWINGS PRINT TO THE SCALE INDICATED WHEN PRINTED AT 11x17</td> <td>APRVD. BY</td><td>M. ROHRBACH</td> <td>DRWG. NO.</td><td>HBI-2</td> </tr> </table>	DATE	01/30/2018	RELATED DRWG.		DRAWINGS PRINT TO THE SCALE INDICATED WHEN PRINTED AT 11x17	APRVD. BY	M. ROHRBACH	DRWG. NO.	HBI-2
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DRAWINGS PRINT TO THE SCALE INDICATED WHEN PRINTED AT 11x17	APRVD. BY	M. ROHRBACH	DRWG. NO.	HBI-2																																

A KELLER COMPANY

Western Region
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 Tukwila, WA 98168
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ENGINEER OF RECORD

Exp. Date: 6/14/2019

Plan Fig 2.grf 2/3/16 (17:44) SHE

GENERAL NOTES

1. Prior to HBI mobilizing to the project site the General Contractor shall locate sufficient layout stone column installation points as required by the HBI Superintendent as well as provide coordinates for these points.
2. Horizontal and vertical layout of the individual Aggregate Pier (AP) elements shall be provided by the General Contractor. HBI will coordinate with the General Contractor in determining the layout sequencing.
3. General Contractor to provide a working grade at the elevations shown on these drawings. Work surface shall be constructed and managed by the General Contractor such that HBI personnel and equipment can efficiently traverse the site. HBI is not responsible for returning the site to its original grade or condition. HBI anticipates that after completion of our work in may be necessary to remove at least one foot of the working platform.
4. HBI will provide a qualified full time quality control (QC) representative. This representative is titled HBI superintendent, foreman or HBI field engineer. Third party testing or inspection is provided by the General Contractor, if required.
5. APs will be installed to design depth or practical refusal. Practical refusal is defined below.
6. If obstructions are encountered during AP construction and the on-site AP equipment cannot penetrate through it, the General Contractor is responsible for removing the obstruction and backfilling the excavation with engineered fill (minimum 95% modified proctor, ASTM D1557) per the engineer's requirements. This work is to be done in a timely manner such that it does not delay the AP work.
7. Utility locates, protection, removal, and restoration of above ground and below ground utilities is the responsibility of the General Contractor. HBI is not responsible for damage to existing utilities.
8. After the completion of the AP work, the General Contractor is responsible for protection of the work. Proper site drainage to prevent ponding of water in the area of APs and control and coordination of earthwork activities shall be managed such that existing APs are not damaged. Allowing surface water and/or storm water to drain through the highly permeable APs is not acceptable as it can soften the soil surrounding the APs.
9. The AP locations shown on the approved AP drawings are for AP site layout. This plan should not be used for foundation layout. Footing locations, sizes and orientation shown on these drawings are for information only. Refer to the "For Construction" structural package for specific foundation dimensions and locations. HBI shall be notified immediately if information included in these plans or in the AP calculation package conflicts with the project structural or architectural drawings. It is the general contractor's responsibility to confirm foundations supported by APs are shown accurately on these drawings.
10. In the event that the no-dig zone (as shown on these drawings) is compromised or stone columns are undermined for any reason at an elevation below bottom of footing, it is acceptable to this design to place and compact AASHTO #57 stone, or well graded granular structural fill acceptable to the project geotechnical engineer. This fill should be compacted with an impact style compactor to a firm and not yielding condition. This operation should be monitored by the geotechnical engineer of record. The project geotechnical engineer should document the placement and compaction and provide an opinion regarding appropriateness and acceptability. The project geotechnical engineer may also recommend, or require, other material be used as structural fill.
11. The ground improvement engineer is the registered professional engineer whose stamp resides on these drawings.
12. HBI is not the owner or the General Contractor. The owner and General Contractor are defined in the contract documents.
13. APs are columns of compacted permeable gravel. When the establishing construction schedule/sequencing, the GC should carefully consider the potential for excavations below

groundwater to experience significant groundwater inflow.

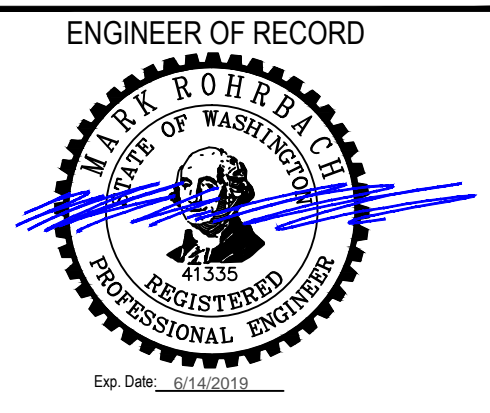
STONE COLUMN SUPPORTED FOUNDATIONS

14. The top of each AP shall be protected by the General Contractor. A one foot layer of soil is adequate to protect the top of the APs. Excavations to the top of the APs shall not be left open for more than 24 hours. If immediate foundation preparation and placement of structural fill is not possible, a "mud mat" consisting of at least 3 inches of lean concrete may be placed over the foundation sub grade.
15. Water shall not pool or collect in foundation excavations.
16. Mechanical tamping of the foundation sub grade is required prior to placing structural fill or any permanent system. Compaction shall be performed over the entire foundation sub grade to compact loose soil and AP stone. If soft areas are encountered, this material should be removed and replaced with AASHTO #57 stone (or other acceptable granular fill) under the inspection of a qualified engineer.
17. A testing agency or the project geotechnical engineer shall inspect each foundation excavation and approve it prior to placing structural fill or placing a "mud mat". This inspection should be documented in a report that provides an opinion regarding appropriateness and acceptability for every portion of the foundation excavation(s).
18. All proposed underground utilities within and adjacent to AP supported foundations shall be field verified by the General Contractor and coordinated with HBI prior to utility trench excavation and utility installation. See "Adjacent Excavation Detail" is this drawing package.
19. HBI is not responsible for settlements of non-AP supported foundations/slabs or for differential settlements between AP supported foundations and non-AP supported foundations/slabs.

evaluated by the HBI geotechnical engineer. HBI will provide the composite friction angle required by the Project Geotechnical Engineer to satisfy their slope stability calculations.

PROJECT SPECIFIC NOTES

20. HBI's portion of this project involves construction of a bottom feed compacted aggregate pier displacement ground improvement system designed by HBI and shown on these drawings.
21. The structure is to be supported on shallow foundations as follows:
 - A. Foundation sizes, locations and loads are as shown on these drawings;
 - B. Allowable post-improvement soil bearing pressure: 3000 pounds per square foot (psf)
 - C. Allowable post-improvement static settlement
 - a. 1 inch of total post-construction settlement
 - b. 0.5 inch per 50 feet of post construction differential settlement
 - c. Post improvement Composite Friction Angle: 34 degrees.
22. HBI's design is based on the following documents and performance requirements:
 - A. Revised Geotechnical Report prepared by PanGEO, Inc., titled "Proposed Development at 8375 and 8383 East Mercer Way, Mercer Island, WA," dated September 9th, 2014 and revised February 4th, 2016;
 - B. Site Plan Drawing A0.0, prepared by Ripple Design Studio, dated August 28th, 2017
23. If any of these basis-of-design documents change, this design is no longer appropriate unless and until HBI and reviewed the changes and updated the design (if needed).
24. HBI has no reason to suspect any of the basis-of-design documents to be in error and is not responsible for errors or omissions in those documents that may affect the parameter values used in this design or the construction of the APs. If the subsurface conditions are found to differ from the information provided in the above referenced documents, HBI will notify the project team immediately.
25. This design is based upon treatment as defined by the Project Geotechnical Engineer in the referenced geotechnical report. HBI has provided an aggregate pier design to support vertical building loads and control of vertical settlement. Horizontal soil movement was not

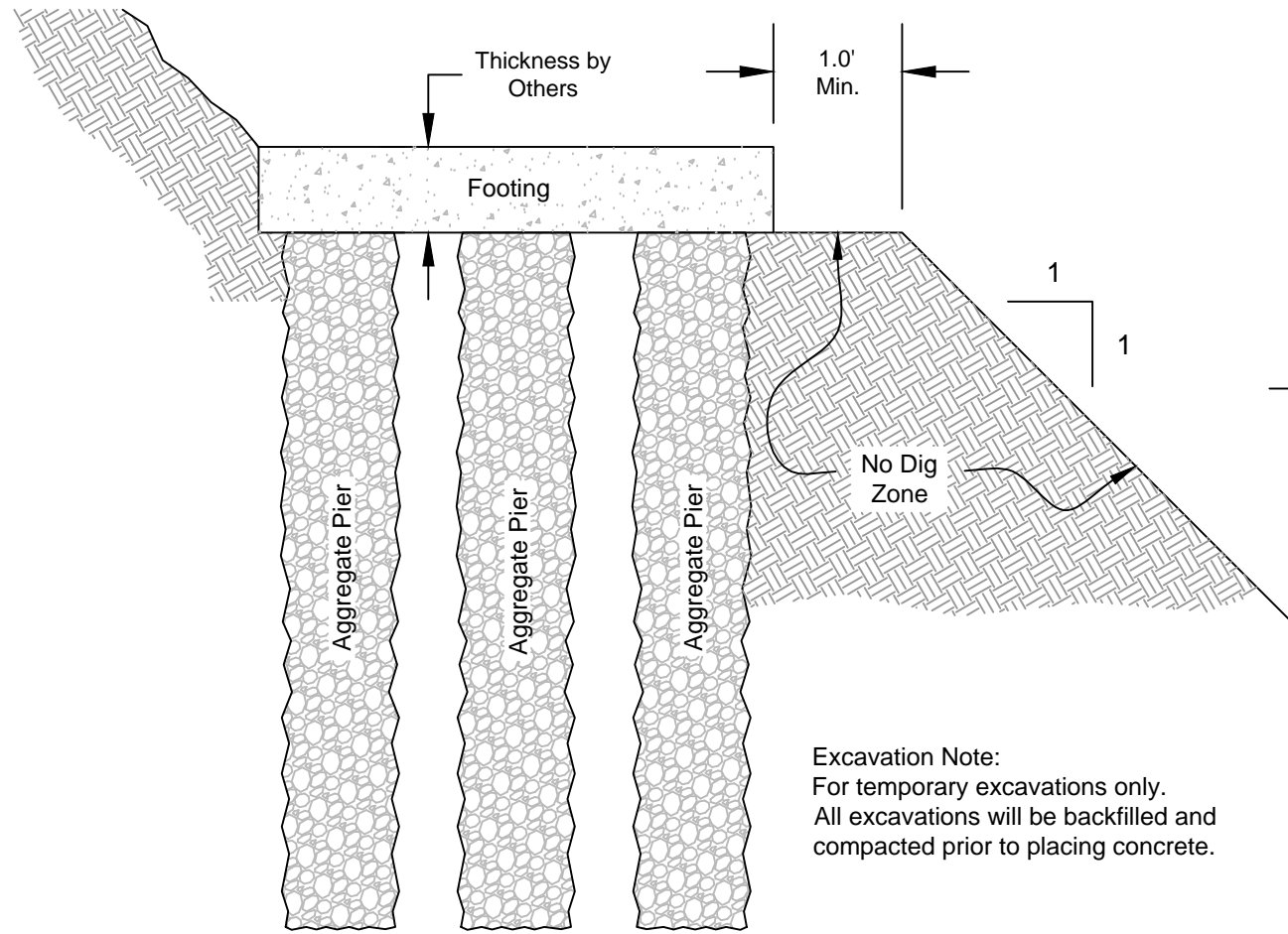


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PROJECT: East Mercer Housing Development 8375 E. Mercer Way Mercer Island, WA 98040	SHEET TITLE: NOTES	REVISIONS			
		NO.	BY	REASON	DATE
		0	APG	Issued for Review	01/30/18
		1	APG	Added Third Residence	04/13/18
		DATE	01/30/2018	RELATED DRWG.	DRWG. NO.
		DRAWINGS PRINT TO THE SCALE INDICATED WHEN PRINTED AT 11x17	APRVD. BY M. ROHRBACH		HBI-3

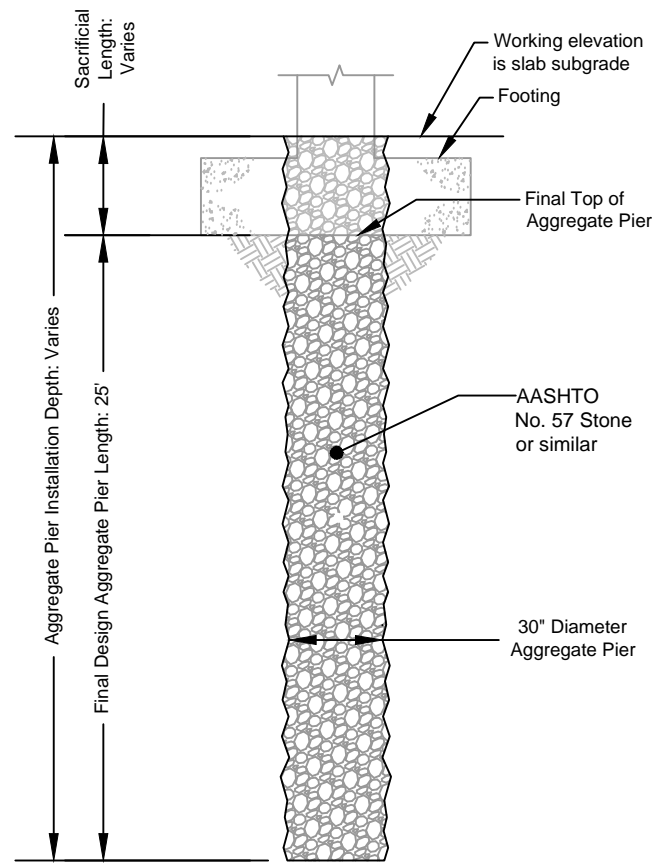


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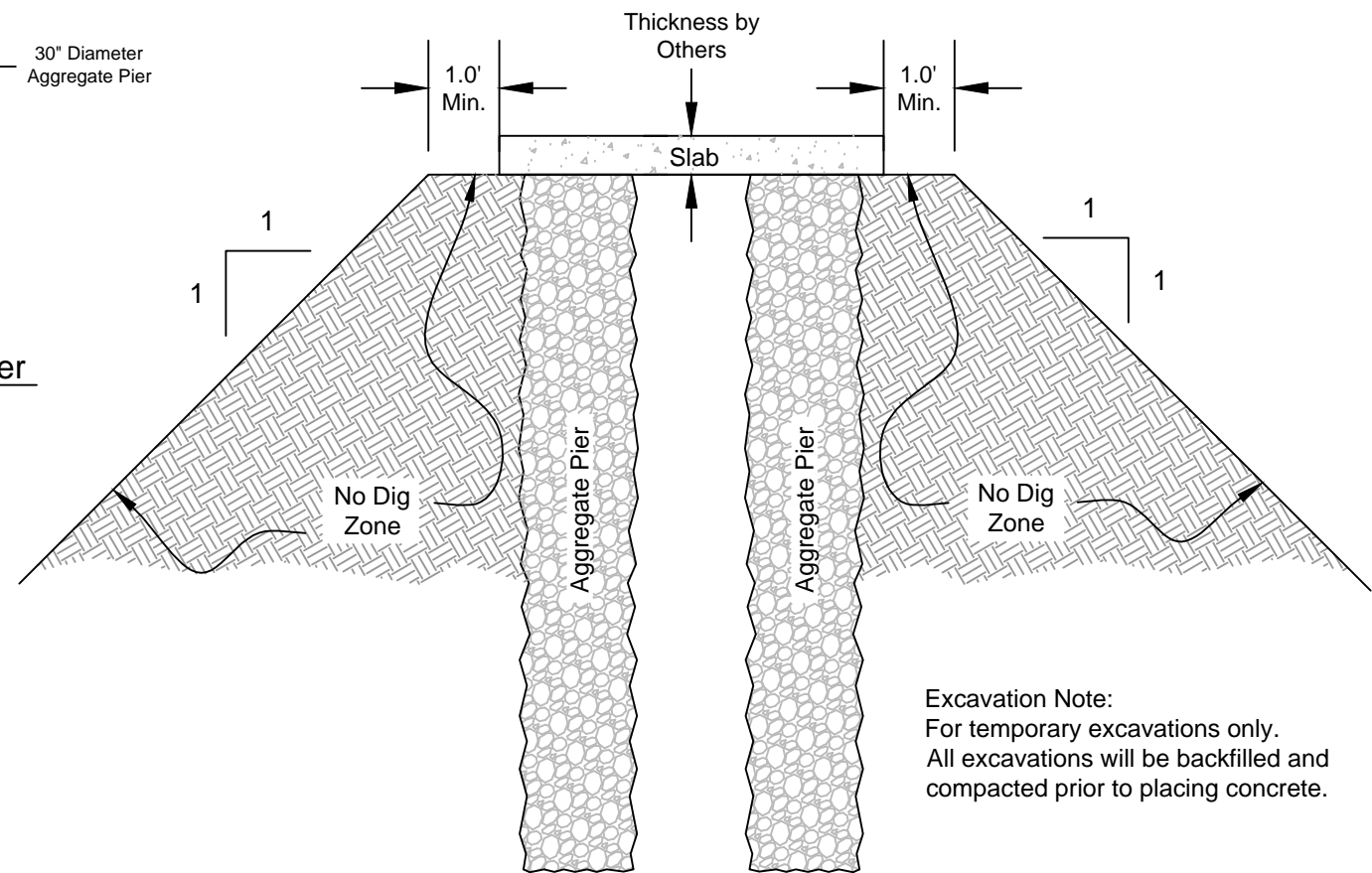


Detail 2
No-Dig Zone: Spread Footing
N.T.S.

Excavation Note:
For temporary excavations only.
All excavations will be backfilled and
compacted prior to placing concrete.



Detail 1
Typical Aggregate Pier
N.T.S.



Detail 3
No-Dig Zone: Slab
N.T.S.

Excavation Note:
For temporary excavations only.
All excavations will be backfilled and
compacted prior to placing concrete.

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ENGINEER OF RECORD



Exp. Date: 6/14/2019

PROJECT:
East Mercer Housing
Development
8375 E. Mercer Way
Mercer Island, WA 98040

SHEET TITLE:
**STANDARD
DETAILS**

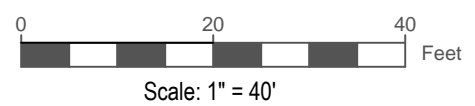
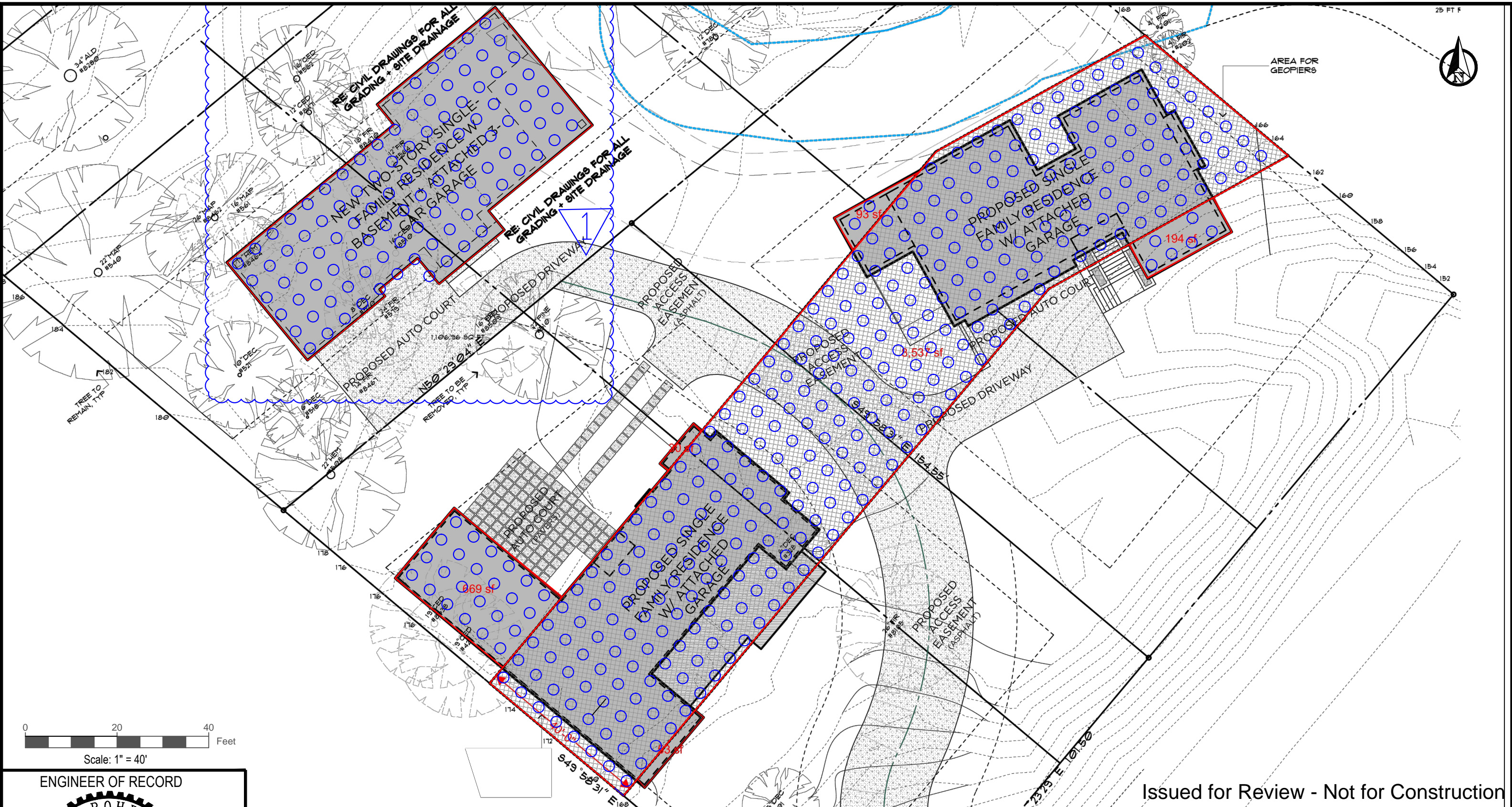
DRAWINGS PRINT TO THE SCALE
INDICATED WHEN PRINTED AT 11x17

REVISIONS			
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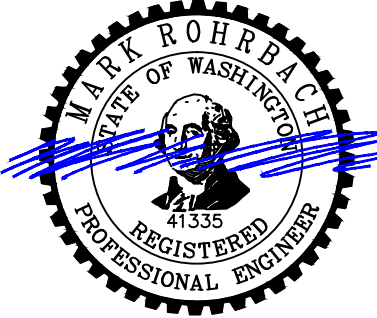
DATE	01/30/2018	RELATED DRWG.	DRWG. NO.
APRVD. BY	M. ROHRBACH		HBI-4



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Exp. Date: 6/14/2019

Legend:

- SC Length = 25' ; Dia. = 30"
- Spacing 5.25' Square
- 18% Area Replacement

PROJECT:
 East Mercer Housing Development
 8375 E. Mercer Way
 Mercer Island, WA 98040

SHEET TITLE:
 Aggregate Pier Layout

REVISIONS			
NO.	BY	REASON	DATE
0	APG	Issued for Review	01/30/18
1	APG	Added Third Residence	04/13/18

DATE: 01/30/2018
 APRVD. BY: M. ROHRBACH

DRWG. NO.: HBI-5

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ABBREVIATIONS:

ABV	ABOVE
ADD	ADDITIONAL
AFB	ABOVE FINISHED FLOOR
BLW	BELOW
BLK	BLOCK, BLOCKING
BOF	BOTTOM
BOW	BOTTOM OF WALL
CAB	CABINET
CL	CENTERLINE
CLG	CEILING
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CONTR	CONTRACTOR
CP	CENTERPOINT
CSMT	CASEMENT
DBL	DOUBLE
DET	DETAIL
DIA	DIAMETER
DMR	DIMENSION
DW	DOWN
DR	DOOR
DS	DOWNSPOUT
DW	DISHWASHER
EA	EACH
EXH	EXHAUST
EX	EXISTING
EXT	EXTERIOR
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FN CRDE	FINISHED GRADE
FN	FINISHED
FNDR	FOUNDATION
FLR	FLOOR
FR	FIREPLACE
FRZ	FREEZER
GA	GAUGE
GL	GLASS
GR	GRADE
GWB	GYPSPUM WALL BOARD
HS	HOSE BIB
HGT	HEIGHT
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
LT	LIGHTING
LV	LOW VOLTAGE
MEMB	MEMBRANE
MATL	MATERIAL
MFL	METAL
MFR	MANUFACTURER
MT	MOUNTED
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NFC	NOT FOR CONSTRUCTION
NO	NUMBER
NOM	NOMINAL
OC	ON CENTER
OPH	OPPOSITE HAND
PNL	PANEL
PL	PLATE, PROPERTY LINE
PWD	PLYWOOD
R	RISER(S); RADIUS
RAD	RADIUS
RE:	REFER TO
RFG	ROOFING
REFR	REFRIGERATOR
SIM	SIMILAR
T	TREAD(S)
TD	TO BE DETERMINED
TG	TEMPERED GLASS
T&G	TONGUE & GROOVE
THK	THICKNESS
TOP	TOPPING
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VOLTAGE
VIF	VERIFY IN FIELD
WD	WOOD
WDW	WINDOW

FLOOR PLAN LEGEND:

	EXISTING WALL TO REMAIN
	NEW FULL-HEIGHT WALL
	NEW FULL-HEIGHT CONCRETE WALL
	PARTIAL-HEIGHT WALL
	PROPERTY LINE
	BUILDING / STRUCTURE ABOVE
	BUILDING / STRUCTURE BELOW
	CENTERLINE
	AREA OF DRAWING REVISION
	ELEVATION MARKER
	SECTION MARKER

GENERAL PROJECT NOTES:

- DO NOT SCALE DRAWINGS.
- THIS PROJECT SHALL COMPLY WITH ALL GOVERNING REGULATIONS, ORDINANCES, BUILDING CODES, OR COVENANTS OF THE AREA IN WHICH IT IS BUILT.
- APPROVAL BY AN INSPECTOR DOES NOT CONSTITUTE AUTHORITY TO DEViate FROM THE DRAWINGS OR SPECIFICATIONS.
- THE CONTRACTOR SHALL SCHEDULE WALK-THROUGHS AT EACH OF BELOW NOTED INTERVALS:
 - PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
 - PRIOR TO THE COMMENCEMENT OF ALL MECHANICAL + ELECTRICAL WORK.
 - PROVIDE ALL NECESSARY BARRICADES, WARNING SIGNS, + DEVICES TO PROTECT PUBLIC + CONSTRUCTION PERSONNEL DURING CONSTRUCTION.
 - MAINTAIN ALL REQUIRED ACCESS + EGRESS DURING CONSTRUCTION.

DUTY OF COOPERATION:

RELEASE + ACCEPTANCE OF THESE DOCUMENTS INDICATES COOPERATION AMONG THE OWNER, THE CONTRACTOR, + RIPPLE DESIGN STUDIO. ANY ERRORS, OMISSIONS, OR DISCREPANCIES DISCOVERED BY THE USE OF THESE DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO RIPPLE DESIGN STUDIO FAILURE TO DO SO SHALL RELIEVE RIPPLE DESIGN STUDIO FROM ANY RESPONSIBILITY OF THE CONSEQUENCES.

ANY DEVIATIONS FROM THESE DOCUMENTS WITHOUT THE CONSENT OF RIPPLE DESIGN STUDIO ARE UNAUTHORIZED. FAILURE TO OBSERVE THESE PROCEDURES SHALL RELIEVE RIPPLE DESIGN STUDIO OF RESPONSIBILITY FOR ALL CONSEQUENCES ARISING OUT OF SUCH ACTIONS.

E MERCER PARCEL 1

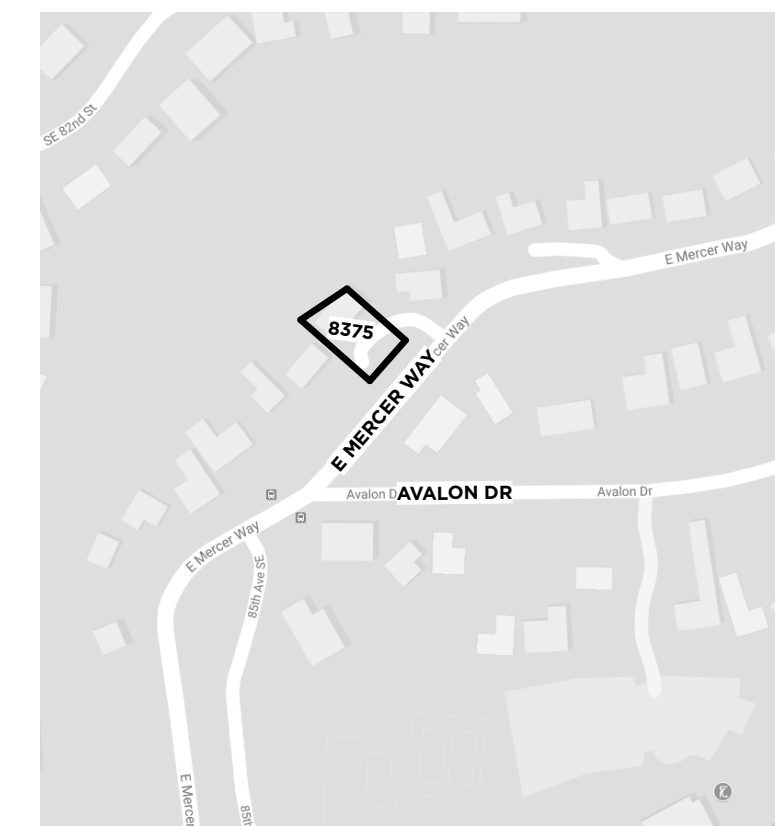
8375 E. MERCER WAY MERCER ISLAND WA 98040



WSEC 2015 NOTES:

- THIS PROJECT IS ELIGIBLE AND COMPLIANT W/ WSEC 2015 PRESCRIPTIVE METHOD.
- INSULATION VALUES SHALL BE AS FOLLOWS:
 - ALL VERTICAL GLAZING SHALL BE 0.30 U-FACTOR MAX.
 - ALL OVERHEAD GLAZING SHALL BE 0.50 U-FACTOR MAX.
 - ALL EXTERIOR DOORS (INCLUDING DOORS FROM CONDITIONED SPACE TO UNCONDITIONED SPACE) SHALL BE 0.20 U-FACTOR MIN.
 - ALL CEILINGS OVER CONDITIONED SPACE SHALL RECEIVE R-49 BLOWN-IN INSULATION MIN.
 - ALL ABOVE-GRADE EXTERIOR WALLS SHALL RECEIVE R-21 BATT INSULATION MIN.
 - ALL BELOW-GRADE EXTERIOR WALLS SHALL RECEIVE R-21 BATT INSULATION MIN @ INTERIOR FRAMED WALL.
 - ALL FLOORS OVER UNCONDITIONED SPACE SHALL RECEIVE R-30 BATT INSULATION MIN.
 - ALL SLAB-ON-GRADE WITHIN CONDITIONED SPACE SHALL RECEIVE R-10 RIGID INSULATION WITHIN 24" OF SLAB PERIMETER.
 - ALL HEADERS @ EXTERIOR WALLS SHALL RECEIVE R-10 RIGID INSULATION @ INTERIOR SIDE OF WALL.
- RE: STRUCTURAL DRAWINGS FOR ALL FRAMING COMPLIANCE REQUIREMENTS.
- PROVIDE 100 CFM INTERMITTENTLY OPERATING POINT-OF-USE VENTILATION @ KITCHEN.
- PROVIDE 50 CFM INTERMITTENTLY OPERATING POINT-OF-USE VENTILATION @ ALL BATHS + LAUNDRY.
- NATURAL GAS, PROPANE OR OIL WATER HEATER SHALL HAVE A MINIMUM EF OF 0.91 (WSEC 406.2, CREDIT 5c).
- AT CRAWLSPACES THE MIN NET AREA OF VENTILATION OPENINGS SHALL NOT BE LESS THAN 1 FT² FOR EACH 300 FT² OF UNDER-FLOOR AREA. ONE VENTILATION OPENING SHALL BE WITHIN 3'-0" OF EACH CORNER OF THE BUILDING AT CRAWLSPACE, EXCEPT ONE SIDE OF THE BUILDING SHALL BE PERMITTED TO HAVE NO VENTILATION OPENINGS, OR CRAWLSPACE SHALL BE MECHANICALLY VENTED.
- THE BUILDING THERMAL ENVELOPE SHALL BE CONSTRUCTED TO LIMIT AIR LEAKAGE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS R402.4.1 THROUGH R402.4.4. WHERE REQUIRED BY THE CODE OFFICIAL, TESTING SHALL BE CONDUCTED BY AN APPROVED THIRD PARTY AND A WRITTEN REPORT OF THE TESTING RESULTS SHALL BE SIGNED BY THE TESTING PARTY AND PROVIDED TO THE CODE OFFICIAL.
- AT LEAST ONE THERMOSTAT PER DWELLING UNIT SHALL BE CAPABLE OF CONTROLLING THE HEATING AND COOLING SYSTEM ON A DAILY SCHEDULE.

VICINITY MAP:



PROJECT INFO:

PROJECT ADDRESS:
8375 E. MERCER WAY
MERCER ISLAND, WA 98040

SCOPE OF WORK:
DEMOLITION OF EXISTING RESIDENCE AND CONSTRUCTION OF NEW SINGLE-FAMILY RESIDENCE WITH ATTACHED GARAGE.

ZONE:
R-8.4

LEGAL DESCRIPTION:
AVALON PARK ADD PCL A MERCER ISLAND LLR#SUB 16-004 REC#20170131900001 SD LLR DAF-LOTS 7THRU 9 SD BLK 3 TGV SELV 40 FT OF POR OF NW 1/4 STR 31-24-5 ADJ NWLY LNS OF SD LOTS & BET SWLY & NELY LN THOF EXTD WLY

ACCESSOR'S PARCEL NUMBER:
032110-0145

BUILDING CODE + OCCUPANCY:
2015 IRC (ARCHITECTURAL) + 2015 IBC (STRUCTURAL)
R-3 SINGLE-FAMILY RESIDENTIAL (RESIDENCE)
U STORAGE (GARAGE, STORAGE)

TYPE OF CONSTRUCTION:
TYPE-V-N NON-SPRINKLERED

OCCUPANT LOAD CALCULATIONS:

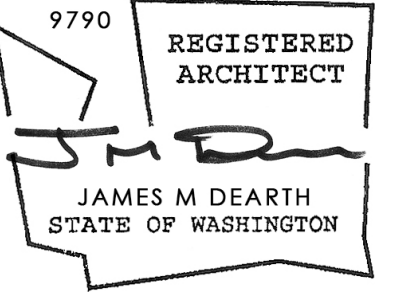
PROPOSED BASEMENT GROSS FLOOR AREA:	952 FT ²
OCCUPANT LOAD FACTOR (ACCESSORY STORAGE):	1 PER 200 FT ²
BASEMENT OCCUPANT LOAD:	5 OCCUPANTS
PROPOSED FIRST FLOOR GROSS FLOOR AREA:	1,907 FT ²
OCCUPANT LOAD FACTOR (ACCESSORY STORAGE):	1 PER 200 FT ²
FIRST FLOOR OCCUPANT LOAD:	10 OCCUPANTS
PROPOSED SECOND FLOOR GROSS FLOOR AREA:	1,918 FT ²
OCCUPANT LOAD FACTOR (RESIDENTIAL):	1 PER 200 FT ²
SECOND FLOOR OCCUPANT LOAD:	10 OCCUPANTS
TOTAL OCCUPANT LOAD:	25 OCCUPANTS

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A2.2	SECOND FLOOR PLAN
A2.3	ROOF PLAN
A2.4	VENTING DETAILS
A3.1	BUILDING ELEVATIONS
A3.2	BUILDING ELEVATIONS
A3.3	BUILDING SECTIONS A-A THROUGH C-C
A4.1	DOOR + WINDOW SCHEDULES
S1.1	GENERAL STRUCTURAL NOTES
S2.0	FOUNDATION PLAN
S2.1	FIRST FLOOR FRAMING PLAN
S2.2	SECOND FLOOR FRAMING PLAN
S2.3	ROOF FRAMING PLAN
S3.1	CONCRETE DETAILS
S3.2	CONCRETE DETAILS
S3.3	CONCRETE DETAILS
S4.1	FLOOR FRAMING DETAILS
S4.2	FLOOR FRAMING DETAILS
S4.3	FLOOR FRAMING DETAILS
S5.1	ROOF FRAMING DETAILS
SSW1	STEEL STRONG WALL DETAILS
SSW2	STEEL STRONG WALL DETAILS



206.913.2333
4303 STONE WAY N
SEATTLE, WA 98103



8375 E. MERCER WAY MERCER ISLAND, WA

E M E R C E R
P A R C E L 1

PROJECT TEAM:

CLIENT:
NEW HORIZON REAL ESTATE DEVELOPMENT
8744 126TH AVE NE
KIRKLAND, WA
206.5570772

ARCHITECT / APPLICANT:
RIPPLE DESIGN STUDIO, INC. + JIM DEARTH
4303 STONE WAY N
SEATTLE, WA 98103
206.913.2333

SURVEYOR:
TERRANE
10801 MAIN STREET, SUITE 102
BELLEVUE, WA 98004
425.458.4488

GEOTECHNICAL ENGINEER:
PANGEQ, INC. + MICHAEL XU
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SEATTLE, WA 98102
206.262.0307

CIVIL ENGINEER:
CIVIL ENGINEERING SOLUTIONS + JEFFREY ELLIS
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SEATTLE, WA 98107
206.930.0342

STRUCTURAL ENGINEER:
BUKER ENGINEERING - DANIEL BUKER
PO BOX 28531
SEATTLE, WA 98118
206.310.3559

CONTRACTOR:
TBD

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RELEASE
BUILDING PERMIT
10 OCT 2017

**RUN YONG USA
MERCER ISLAND LOT LINE REVISION NO. SUB 16-004**

DECLARATION

WE THE UNDERSIGNED OWNER(S) IN FEE SIMPLE [AND CONTRACT PURCHASER(S)] OF THE LAND HEREIN DESCRIBED, DO HEREBY MAKE A LOT LINE REVISION THEREOF PURSUANT TO RCW 58.17.060 AND DECLARE THIS LOT LINE REVISION TO BE THE GRAPHIC REPRESENTATION OF THE SAME, AND THAT SAID SHORT SUBDIVISION IS MADE WITH THE FREE CONSENT AND IN ACCORDANCE WITH THE DESIRE OF THE OWNER(S).

IN WITNESS WHEREOF WE HAVE SET OUR HANDS AND SEALS.

BY: _____
RUN YONG USA

ACKNOWLEDGEMENTS

STATE OF WASHINGTON }
 } SS.
COUNTY OF KING }

I CERTIFY THAT I KNOW OR HAVE SATISFACTORY EVIDENCE THAT _____ IS THE PERSON WHO APPEARED BEFORE ME, AND SAID PERSON ACKNOWLEDGED THAT HE/SHE SIGNED THIS INSTRUMENT, ON OATH STATED THAT HE/SHE WAS AUTHORIZED TO EXECUTE THE INSTRUMENT AND ACKNOWLEDGED IT AS THE _____ OF RUN YONG USA, TO BE THE FREE AND VOLUNTARY ACT OF SUCH PARTY FOR THE USES AND PURPOSES MENTIONED IN THE INSTRUMENT.

GIVEN UNDER MY HAND AND OFFICIAL SEAL THIS _____ DAY OF _____, 2016.

NOTARY PUBLIC IN AND FOR THE STATE OF WASHINGTON
PRINTED NAME _____
MY COMMISSION EXPIRES _____

CITY OF MERCER ISLAND APPROVALS

EXAMINED AND APPROVED THIS _____ DAY OF _____, 2016.

CODE OFFICIAL

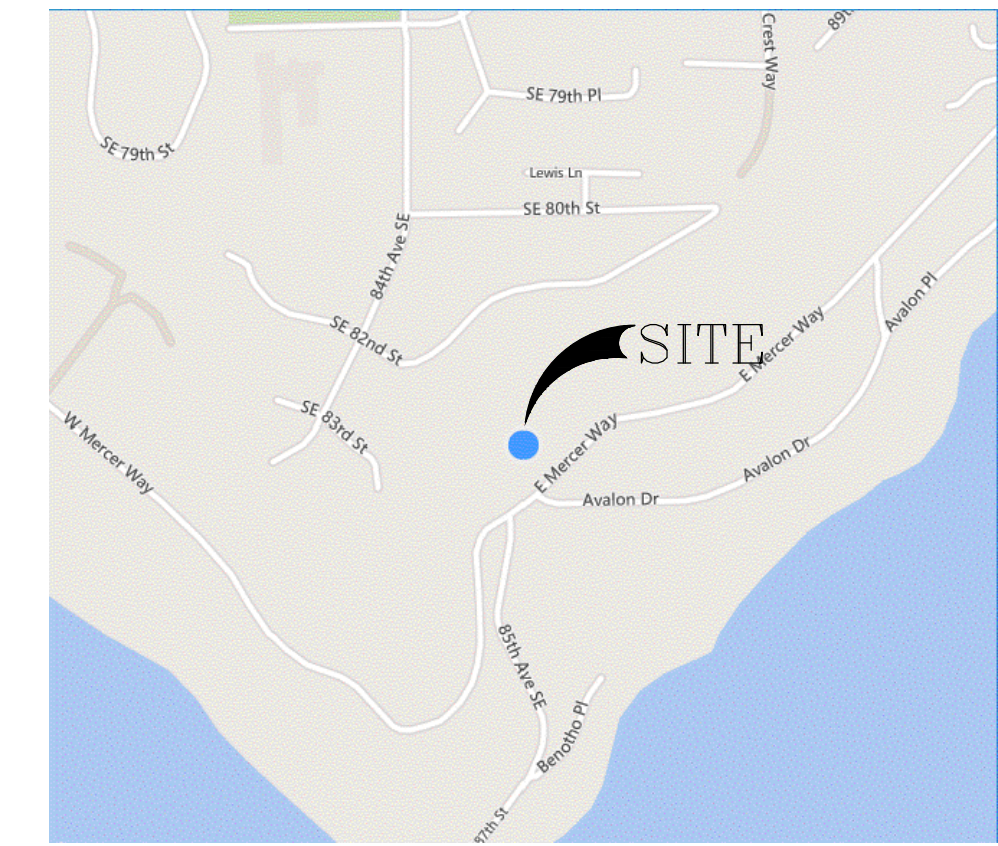
EXAMINED AND APPROVED THIS _____ DAY OF _____, 2016.

CITY ENGINEER

KING COUNTY DEPARTMENT OF ASSESSMENTS

EXAMINED AND APPROVED THIS _____ DAY OF _____, 2016.

ASSESSOR



VICINITY MAP
NOT TO SCALE

BASIS OF BEARINGS

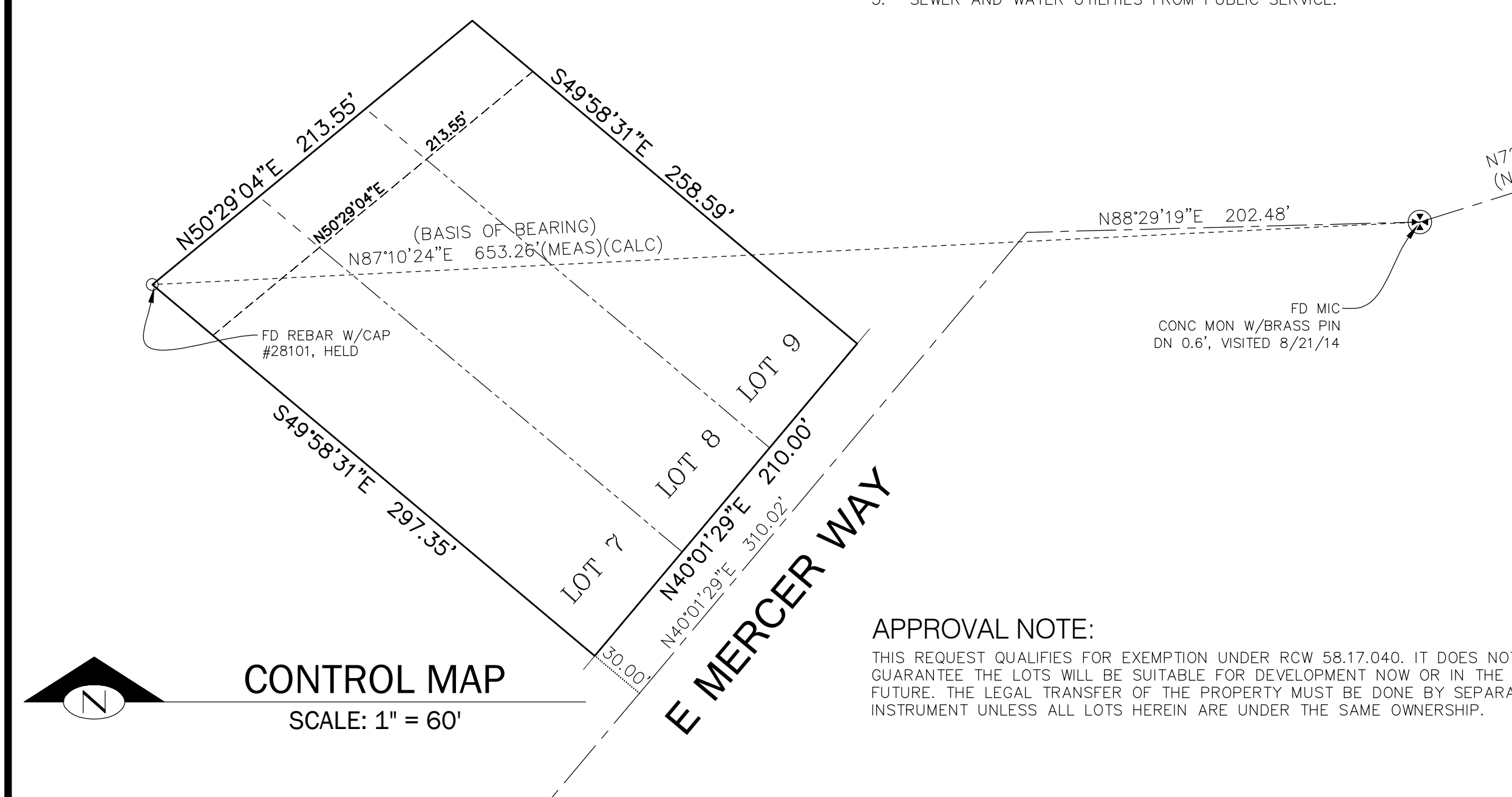
PER PLAT OF AVALON PARK, VOL. 49, PAGE(S) 64 & 65, RECORDS OF KING COUNTY, WASHINGTON.

SURVEY NOTES:

1. THE SURVEY SHOWN HEREON WAS PERFORMED IN AUGUST OF 2014. 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.
2. INSTRUMENTATION FOR THIS SURVEY WAS A LEICA TOTAL STATION UNIT. PROCEDURES USED IN THIS SURVEY WERE DIRECT AND REVERSE ANGLES, NO CORRECTION NECESSARY. MEETS WASHINGTON STATE STANDARDS SET BY WAC 332-130-090.
3. SEWER AND WATER UTILITIES FROM PUBLIC SERVICE.

FD MIC
CONC MON, VISITED 8/21/14
NOTE: MON NO LONGER HAS TACK,
PREVIOUSLY VISITED IN 2004

FD MIC
CONC MON W/BRASS PIN
DN 0.6', VISITED 8/21/14



CONTROL MAP
SCALE: 1" = 60'

ORIGINAL LEGAL DESCRIPTION:

BASED ON DEED FURNISHED BY FIRST AMERICAN TITLE, RECORDED IN KING COUNTY UNDER INSTRUMENT NUMBER 20140523001500, DATED MAY 23, 2014.

LOT 9, BLOCK 3, AVALON PARK, ACCORDING TO PLAT RECORDED IN VOLUME 49 OF PLATS AT PAGE(S) 64 AND 65, IN KING COUNTY, WASHINGTON.

ALSO THE SOUTHEASTERLY 40 FEET OF THE PORTION OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 31, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M. AND GOVERNMENT LOT 1 OF SAID SECTION ADJACENT TO THE NORTHWESTERLY LINE OF SAID LOT 9 AND BETWEEN THE SOUTHWESTERLY AND NORTHEASTERLY LINES THEREOF, EXTENDED NORTHWESTERLY.

LOT 8, BLOCK 3, AVALON PARK, ACCORDING TO PLAT RECORDED IN VOLUME 49 OF PLATS AT PAGE(S) 64 AND 65, IN KING COUNTY, WASHINGTON.

ALSO THE SOUTHEASTERLY 40 FEET OF THE PORTION OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 31, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M. AND GOVERNMENT LOT 1 OF SAID SECTION ADJACENT TO THE NORTHWESTERLY LINE OF SAID LOT 8 AND BETWEEN THE SOUTHWESTERLY AND NORTHEASTERLY LINES THEREOF, EXTENDED NORTHWESTERLY.

LOT 7, BLOCK 3, AVALON PARK, ACCORDING TO PLAT RECORDED IN VOLUME 49 OF PLATS AT PAGE(S) 64 AND 65, IN KING COUNTY, WASHINGTON.

ALSO THE SOUTHEASTERLY 40 FEET OF THE PORTION OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 31, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M. AND GOVERNMENT LOT 1 OF SAID SECTION ADJACENT TO THE NORTHWESTERLY LINE OF SAID LOT 7 AND BETWEEN THE SOUTHWESTERLY AND NORTHEASTERLY LINES THEREOF, EXTENDED NORTHWESTERLY.

SITUATE IN THE COUNTY OF KING, STATE OF WASHINGTON.

APPROVAL NOTE:

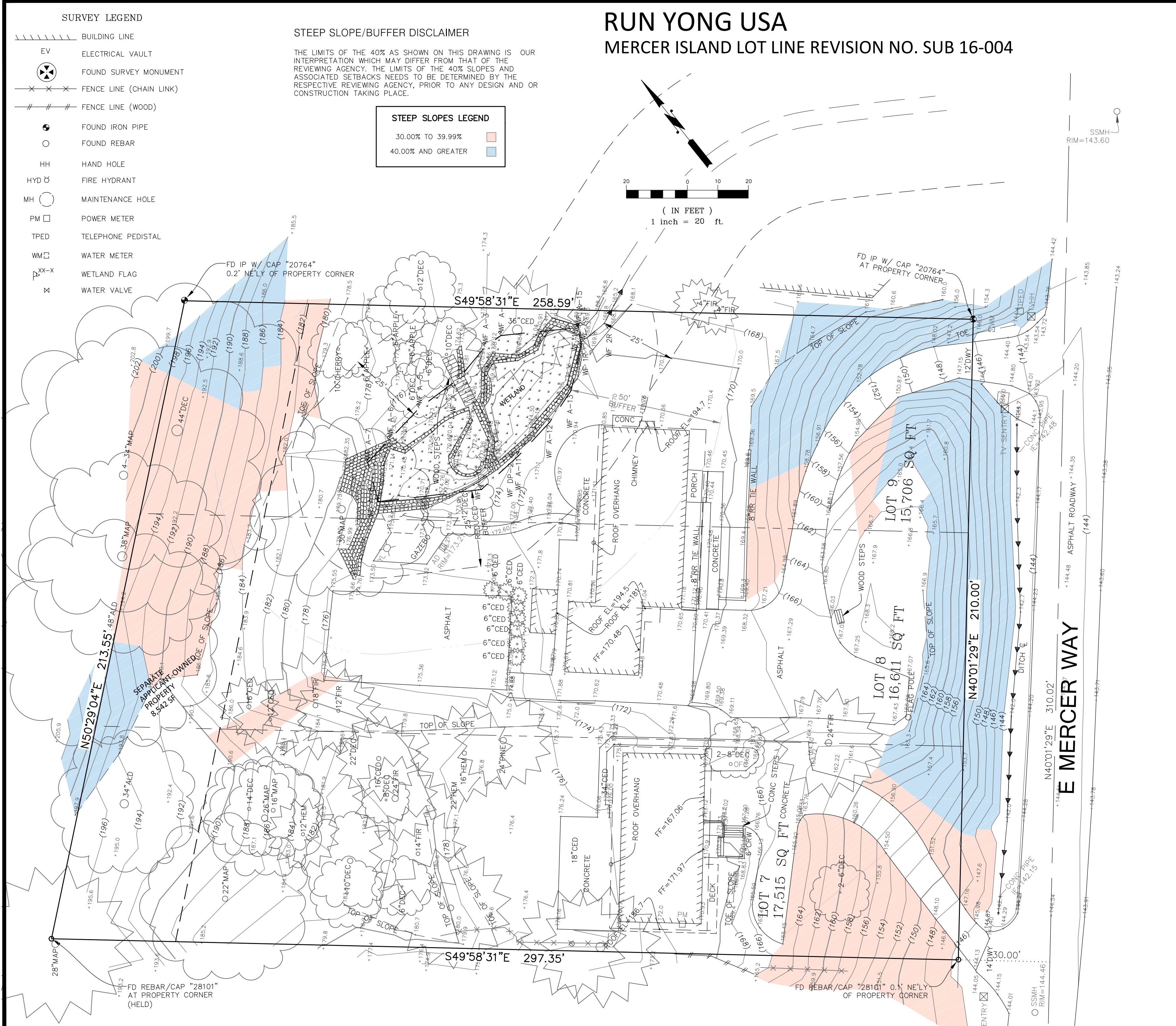
THIS REQUEST QUALIFIES FOR EXEMPTION UNDER RCW 58.17.040. IT DOES NOT GUARANTEE THE LOTS WILL BE SUITABLE FOR DEVELOPMENT NOW OR IN THE FUTURE. THE LEGAL TRANSFER OF THE PROPERTY MUST BE DONE BY SEPARATE INSTRUMENT UNLESS ALL LOTS HEREIN ARE UNDER THE SAME OWNERSHIP.

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



CITY OF MERCER ISLAND SUB16-004
NW 1/4, NW 1/4, SEC 31, T 24N, R 5E, W.M.
RUN YONG USA
8375 & 8383 E MERCER WAY
MERCER ISLAND, WA

JOB NO.:	140845
DATE:	9/16/16
DRAFTED BY:	TLR
CHECKED BY:	EJG/SRM
SCALE:	1" = 60'
1 OF 4	



SURVEY LEGEND

=====	BUILDING LINE
EV	ELECTRICAL VAULT
⊗	FOUND SURVEY MONUMENT
-x-x-x-	FENCE LINE (CHAIN LINK)
-#-#-#-	FENCE LINE (WOOD)
●	FOUND IRON PIPE
○	FOUND REBAR
HH	HAND HOLE
HYD	FIRE HYDRANT
MH	MAINTENANCE HOLE
PM	POWER METER
TPED	TELEPHONE PEDISTAL
WM	WATER METER
W-X-X	WETLAND FLAG
M	WATER VALVE

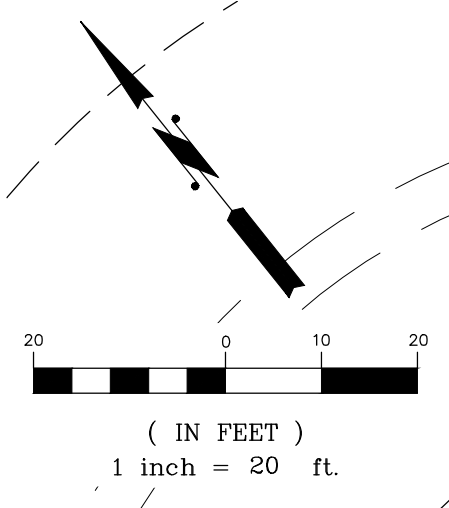
STEEP SLOPE/BUFFER DISCLAIMER

THE LIMITS OF THE 40% AS SHOWN ON THIS DRAWING IS OUR INTERPRETATION WHICH MAY DIFFER FROM THAT OF THE REVIEWING AGENCY. THE LIMITS OF THE 40% SLOPES, AND ASSOCIATED SETBACKS NEEDS TO BE DETERMINED BY THE RESPECTIVE REVIEWING AGENCY, PRIOR TO ANY DESIGN AND OR CONSTRUCTION TAKING PLACE.

STEEP SLOPES LEGEND

30.00% TO 39.99%	[Orange Box]
40.00% AND GREATER	[Blue Box]

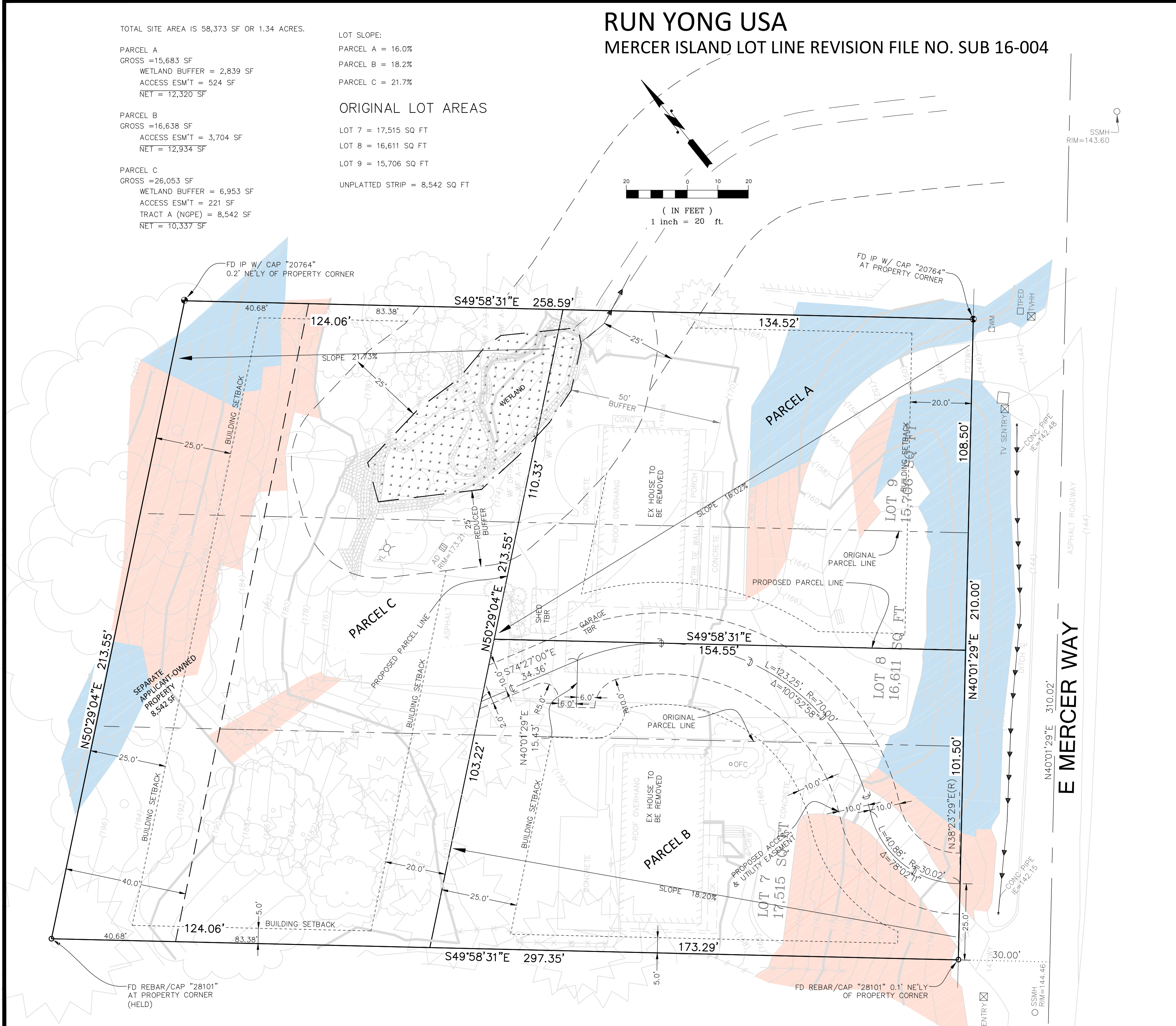
RUN YONG USA
MERCER ISLAND LOT LINE REVISION NO. SUB 16-004



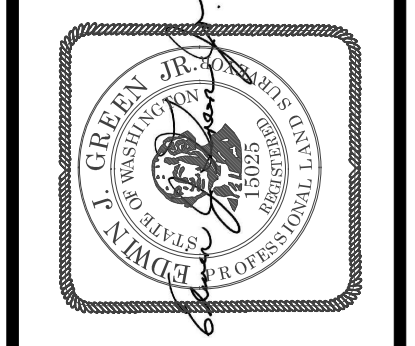
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 phone 425.458.4488 support@terrane.net
www.terrane.net

TOPOGRAPHIC SURVEY
 NW 1/4, NW 1/4, SEC 31, T 24N, R 5E, W.M.
RUN YONG USA
 8375 & 8383 E MERCER WAY
 MERCER ISLAND, WA

JOB NO.: 140845
 DATE: 9/16/16
 DRAFTED BY: TLR
 CHECKED BY: EJJ/SRM
 SCALE: 1" = 20'
 2 OF 4



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



LOT LAYOUT
 NW 1/4, NW 1/4, SEC 31, T 24N, R 5E, W.M.
RUN YONG USA
 8375 & 8383 E MERCER WAY
 MERCER ISLAND, WA

JOB NO.:	140845
DATE:	9/16/16
DRAFTED BY:	TLR
CHECKED BY:	EJG/SRM
SCALE:	1" = 20'
3 OF 4	

RUN YONG USA
MERCER ISLAND LOT LINE REVISION FILE NO. SUB 16-004

NEW LEGAL DESCRIPTIONS:

PARCEL A

LOT 9 AND THE NORTHEASTERLY 38.50 FEET OF LOT 8, BLOCK 3, AVALON PARK, ACCORDING TO THE PLAT RECORDED IN VOLUME 49 OF PLATS, AT PAGES 64 AND 65, IN KING COUNTY, WASHINGTON,
 EXCEPT THE NORTHWESTERLY 82.00 FEET THEREOF.

PARCEL B

LOTS 7 AND 8, BLOCK 3, AVALON PARK, ACCORDING TO THE PLAT RECORDED IN VOLUME 49 OF PLATS, AT PAGES 64 AND 65, IN KING COUNTY, WASHINGTON,
 EXCEPT THE NORTHEASTERLY 38.50 FEET OF SAID LOT 8;
 AND EXCEPT THE NORTHWESTERLY 82.00 FEET THEREOF.

PARCEL C

THE NORTHWESTERLY 82.00 FEET OF LOTS 7, 8 AND 9, BLOCK 3, AVALON PARK, ACCORDING TO THE PLAT RECORDED IN VOLUME 49 OF PLATS, AT PAGES 64 AND 65, IN KING COUNTY, WASHINGTON;
 TOGETHER WITH THE SOUTHEASTERLY 40 FEET OF THAT PORTION OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 31, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M. AND GOVERNMENT LOT 1 OF SAID SECTION LYING BETWEEN THE SOUTHWESTERLY LINE OF LOT 7 IN BLOCK 3 OF SAID PLAT EXTENDED NORTHWESTERLY AND THE NORTHEASTERLY LINE OF LOT 9 IN BLOCK 3 OF SAID PLAT EXTENDED NORTHWESTERLY.

ACCESS AND UTILITY EASEMENT

THAT PORTION OF LOTS 7 AND 8, BLOCK 3, AVALON PARK, ACCORDING TO THE PLAT RECORDED IN VOLUME 49 OF PLATS, AT PAGES 64 AND 65, IN KING COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:

A STRIP OF LAND, 20.00 FEET IN WIDTH, HAVING 10.00 FEET ON BOTH SIDES OF THE FOLLOWING DESCRIBED CENTERLINE:

COMMENCING AT THE MOST SOUTHERLY CORNER OF SAID LOT 7;
 THENCE NORTH 40°01'29" EAST, ALONG THE SOUTHEASTERLY LINE OF SAID LOT 7, A DISTANCE OF 25.00 FEET, TO THE BEGINNING OF A NON-TANGENT CURVE TO THE RIGHT FROM WHICH THE CENTER BEARS NORTH 38°23'29" EAST, 30.02 FEET DISTANT, AND THE POINT OF BEGINNING OF THIS CENTERLINE DESCRIPTION;
 THENCE NORTHWESTERLY, NORTHERLY AND NORTHEASTERLY, ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 78°02'11" AND AN ARC DISTANCE OF 40.88 FEET, TO A POINT OF REVERSE CURVATURE HAVING A RADIUS OF 70.00 FEET;
 THENCE NORTHEASTERLY, NORTHERLY AND NORTHWESTERLY, ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 100°52'58" AND AN ARC DISTANCE OF 123.25 FEET, TO A POINT HERINAFTER REFERRED TO AS POINT "A" AND THE TERMINUS OF THIS CENTERLINE DESCRIPTION;

TOGETHER WITH A STRIP OF LAND, 12.00 FEET IN WIDTH, HAVING 6.00 FEET ON BOTH SIDES OF THE FOLLOWING DESCRIBED CENTERLINE:

BEGINNING AT THE HEREINBEFORE REFERENCED POINT "A";
 THENCE SOUTH 40°01'29" WEST 15.43 FEET, TO THE TERMINUS OF THIS CENTERLINE DESCRIPTION;

TOGETHER WITH THAT PORTION OF SAID LOT 8, LYING NORTHERLY OF A FILLETED CURVE, CONCAVE TO THE SOUTH, HAVING A RADIUS OF 10.00 FEET BETWEEN THE SOUTHEASTERLY LINE OF SAID 12.00 FOOT STRIP AND THE SOUTHERLY LINE OF SAID 20.00 FOOT STRIP;

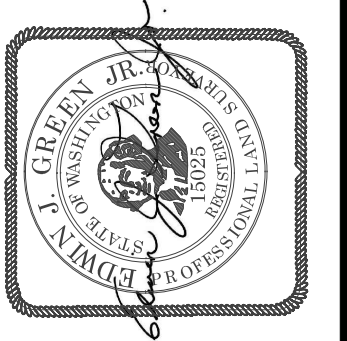
TOGETHER WITH A STRIP OF LAND, 12.00 FEET IN WIDTH, HAVING 10.00 FEET ON THE NORTH SIDE AND 2.00 FEET ON THE SOUTH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE;

BEGINNING AT THE HEREINBEFORE REFERENCED POINT "A";
 THENCE NORTH 74°27'00" WEST 34.36 FEET, TO THE TERMINUS OF THIS CENTERLINE DESCRIPTION, AND A POINT ON THE SOUTHEASTERLY LINE OF THE NORTHWESTERLY 82.00 FEET OF SAID LOTS 7 AND 8;

TOGETHER WITH THAT PORTION OF SAID LOT 8, LYING NORTHERLY OF A FILLETED CURVE, CONCAVE TO THE SOUTH, HAVING A RADIUS OF 5.00 FEET BETWEEN THE SOUTHWESTERLY LINE OF SAID 12.00 FOOT STRIP AND THE NORTHWESTERLY LINE OF SAID 12.00 FOOT STRIP;



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LOT LAYOUT
 NW 1/4, NW 1/4, SEC 31, T 24N, R 5E, W.M.
RUN YONG USA
 8375 & 8383 E MERCER WAY
 MERCER ISLAND, WA

JOB NO.: 140845

DATE: 9/16/16

DRAFTED BY: TLR

CHECKED BY: EJG/SRM

SCALE: 1" = 20'

4 OF 4

SITE NOTES:

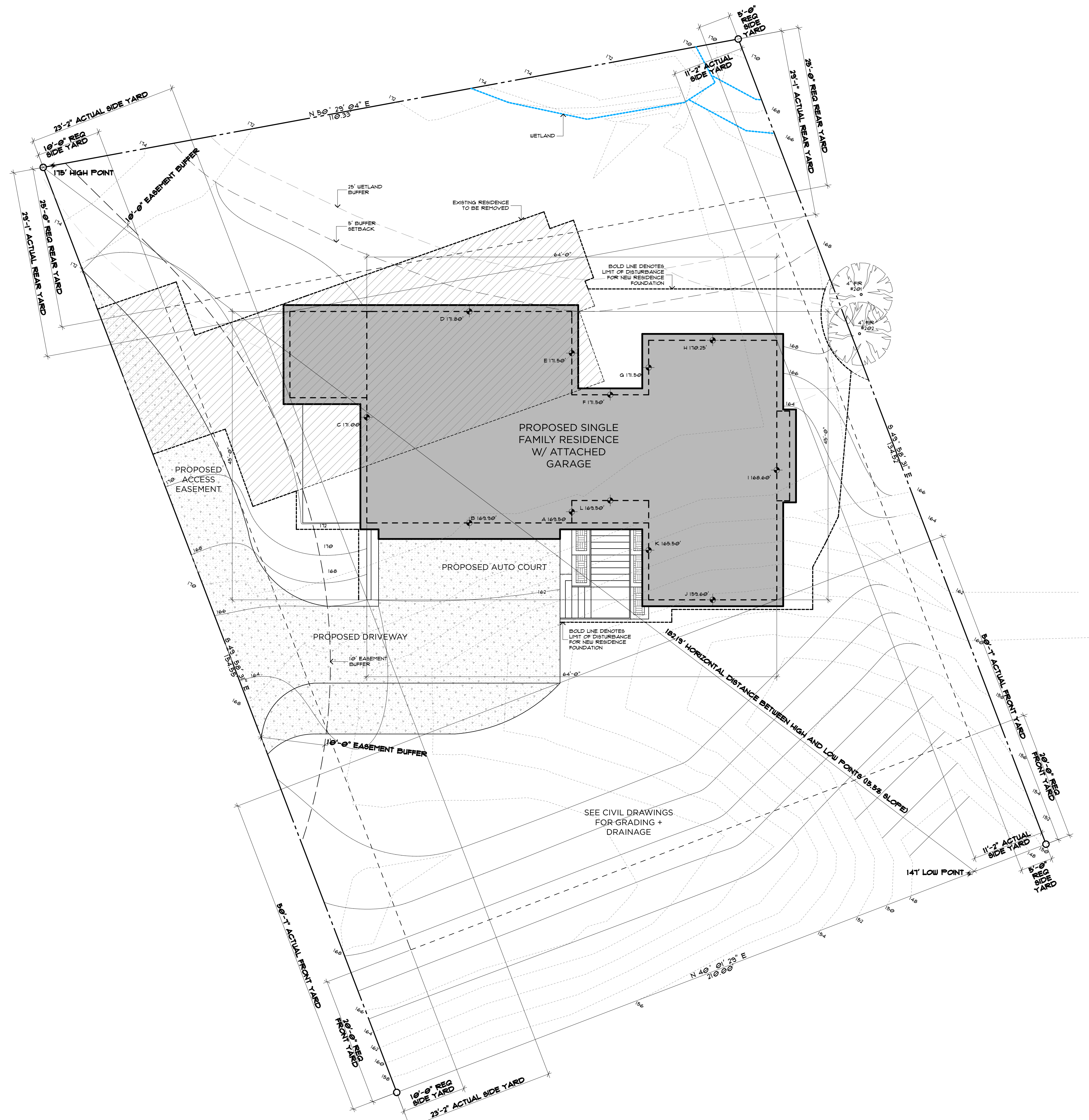
1. ALL IMMEDIATE AREAS AFFECTED BY NEW DEVELOPMENT SHALL BE GRADED AWAY FROM FOUNDATIONS + ADJACENT PROPERTIES @ 10% AS POSSIBLE, 2% MIN.

IMPERVIOUS SURFACE CALCULATIONS:

LOT AREA:	15,683 FT ²
ALLOWABLE IMPERVIOUS SURFACE: (LOT SLOPE IS BETWEEN 15% AND 30%)	5,489 FT ² (35%)
PROPOSED RESIDENCE ROOF AREA:	2,602 FT ²
PROPOSED DRIVE INCLUDING SHARED EASEMENT AREA:	1,796 FT ²
WALKS + DECKS AREA:	362 FT ²
WETLAND AREA:	286 FT ²
TOTAL IMPERVIOUS SURFACE UPON COMPLETION:	5,046 FT² (32%)

AVERAGE BUILDING ELEVATION CALC.S:

ELEVATION @ POINT A:	169.50'
SEGMENT LENGTH @ POINT A:	3.5'
(593.25' @ ELEV x LENGTH)	
ELEVATION @ POINT B:	169.90'
SEGMENT LENGTH @ POINT B:	32'
(5,436.80' @ ELEV x LENGTH)	
ELEVATION @ POINT C:	171.00'
SEGMENT LENGTH @ POINT C:	33'
(5,643.00' @ ELEV x LENGTH)	
ELEVATION @ POINT D:	171.80'
SEGMENT LENGTH @ POINT D:	32'
(5,497.60' @ ELEV x LENGTH)	
ELEVATION @ POINT E:	171.50'
SEGMENT LENGTH @ POINT E:	13'
(2,229.50' @ ELEV x LENGTH)	
ELEVATION @ POINT F:	171.50'
SEGMENT LENGTH @ POINT F:	12'
(2,058.00' @ ELEV x LENGTH)	
ELEVATION @ POINT G:	171.50'
SEGMENT LENGTH @ POINT G:	8.5'
(1,457.75' @ ELEV x LENGTH)	
ELEVATION @ POINT H:	170.25'
SEGMENT LENGTH @ POINT H:	20'
(3,405.00' @ ELEV x LENGTH)	
ELEVATION @ POINT I:	168.60'
SEGMENT LENGTH @ POINT I:	40.5'
(6,828.30' @ ELEV x LENGTH)	
ELEVATION @ POINT J:	159.60'
SEGMENT LENGTH @ POINT J:	20'
(3,192.00' @ ELEV x LENGTH)	
ELEVATION @ POINT K:	165.50'
SEGMENT LENGTH @ POINT K:	15.5'
(2,565.25' @ ELEV x LENGTH)	
ELEVATION @ POINT L:	169.50'
SEGMENT LENGTH @ POINT L:	12'
(2,034.00' @ ELEV x LENGTH)	
TOTAL ELEVS x SEGMENT LENGTHS:	40,940.45'
TOTAL SEGMENT LENGTHS:	242'
AVERAGE NATURAL GRADE (ANG):	169.18'



SITE PLAN

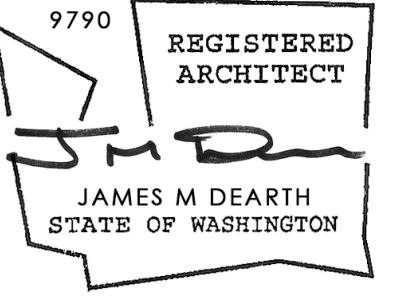
SCALE: 1/8" = 1'-0"

0 1 4 8 12 16



RIPPLE
DESIGN STUDIO

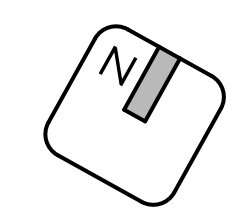
206.913.2333
4303 STONE WAY N
SEATTLE, WA 98103



8375 E. MERCER WAY
MERCER
PARCEL 1
 MERCER ISLAND, WA

SITE PLAN
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RELEASE
 BUILDING PERMIT
 10 OCT 2017



A 1.1

MERCER
PARCEL 1

SANITARY SEWER IMPROVEMENTS

- ①
- ② 6" SDR 35 PVC SANITARY SEWER(SS) @ MIN 1.0%.
- ③
- ④ 6" SEWER CLEANOUT PER MERCER ISLAND DETAIL S-19.
- ⑦
- ⑧

WATER IMPROVEMENTS

- ⑩ -NEW SF RESIDENTIAL WATER SERVICE & METER PIT. CONFIRM REQUIRED SIZE WITH BUILDING PERMIT REVIEW. INSTALL PER MERCER ISLAND DETAIL W-13, W-14, OR W-14A DEPENDING ON SIZE REQUIREMENT.
- ⑪ MIN 1.5" 250 PSI PRIVATE HDPE WATER (ASTM D2239) FROM METER TO HOUSE. RECOMMENDED DEPTH=36". COORDINATE HOUSE ENTRY WITH BUILDER/OWNER.
- ⑫
- ⑭

STORM DRAIN

- ⑳ 4" STORM DRAIN (3034 PVC) @ MIN 1% GRADE.
- ㉑ 4" FOUNDATION DRAIN (3034 PVC) @ MIN 1% GRADE.
- ㉒ 6" STORM DRAIN (3034 PVC) @ MIN 1% GRADE.
- ㉓
- ㉔
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STORM DRAIN STRUCTURES

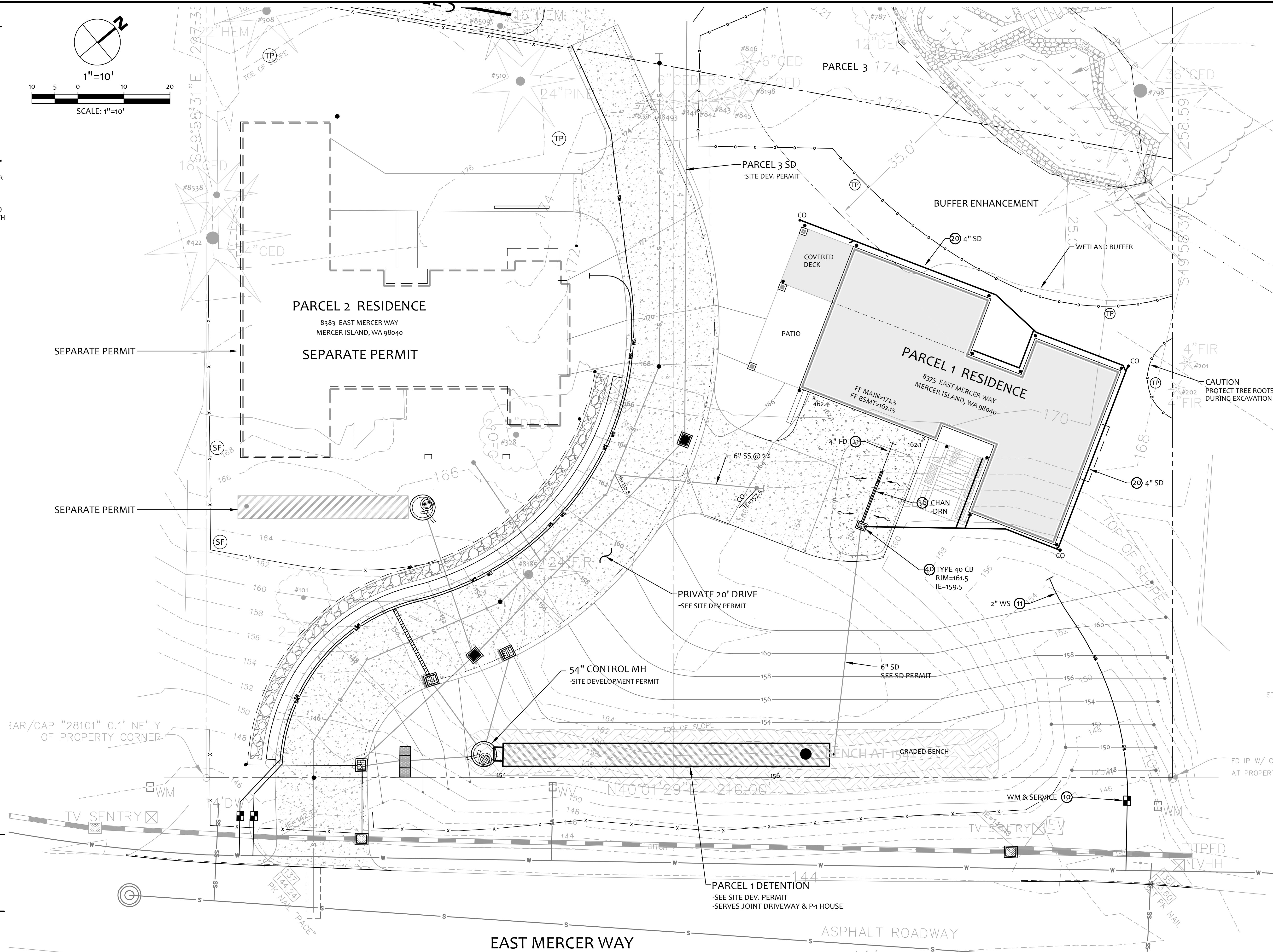
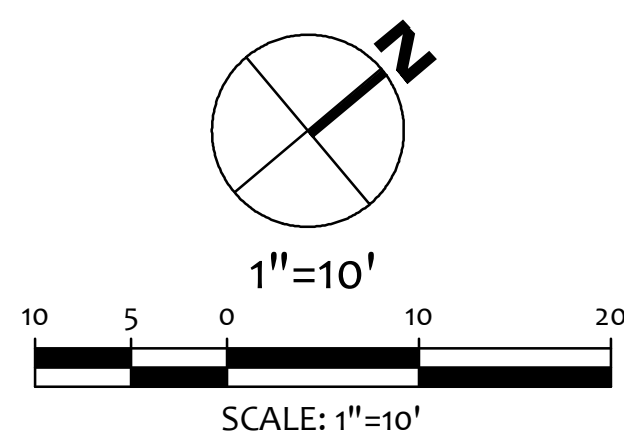
- ㉚ -TYPE 1 CB WITH STANDARD GRATE. MAX 5' RIM TO FL DEPTH.
- ㉛ -TYPE 1 CB WITH VANED LID. MAX 5' RIM TO FL DEPTH.
- ㉜ -TYPE 1 CB WITH SOLID LID
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A CLEARING LIMIT NOTE

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

B TREE DRIPLINE NOTE

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

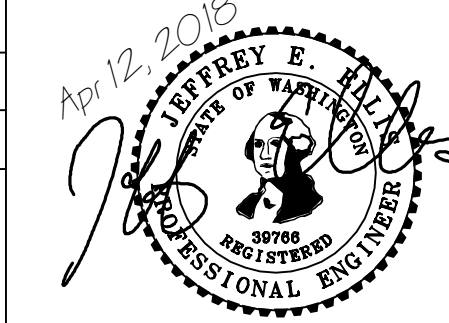


NO.	DATE	BY	REVISIONS

APPLICANT
New Horizon Real Estate
Development
8744 126th Ave NE
Kirkland, WA 98033



DATE: Apr 12, 2018
JOB# 1337
DRAFTED: DE DESIGN: DE
DIGITAL SIGNATURE



CIVIL ENGINEERING SOLUTIONS
102 NW CANAL STREET SEATTLE, WA 98107
PHONE: 206.930.0342 DUFFY@CESOLUTIONS.US

PARCEL 1 CIVIL PLAN
New Horizon Real Estate Development
8375 AND 8383 EAST MERCER WAY
MERCER ISLAND, WA 98040

DRAWING NO:
C2.1
APN 032110-0145
& 032110-0140

TREE TABLE

BY AMERICAN FOREST MANAGEMENT

Tree Summary Table
For: 8383 E Mercer Way

American Forest Management, Inc.
Date: 8/29/14
Inspector: Wilkinson

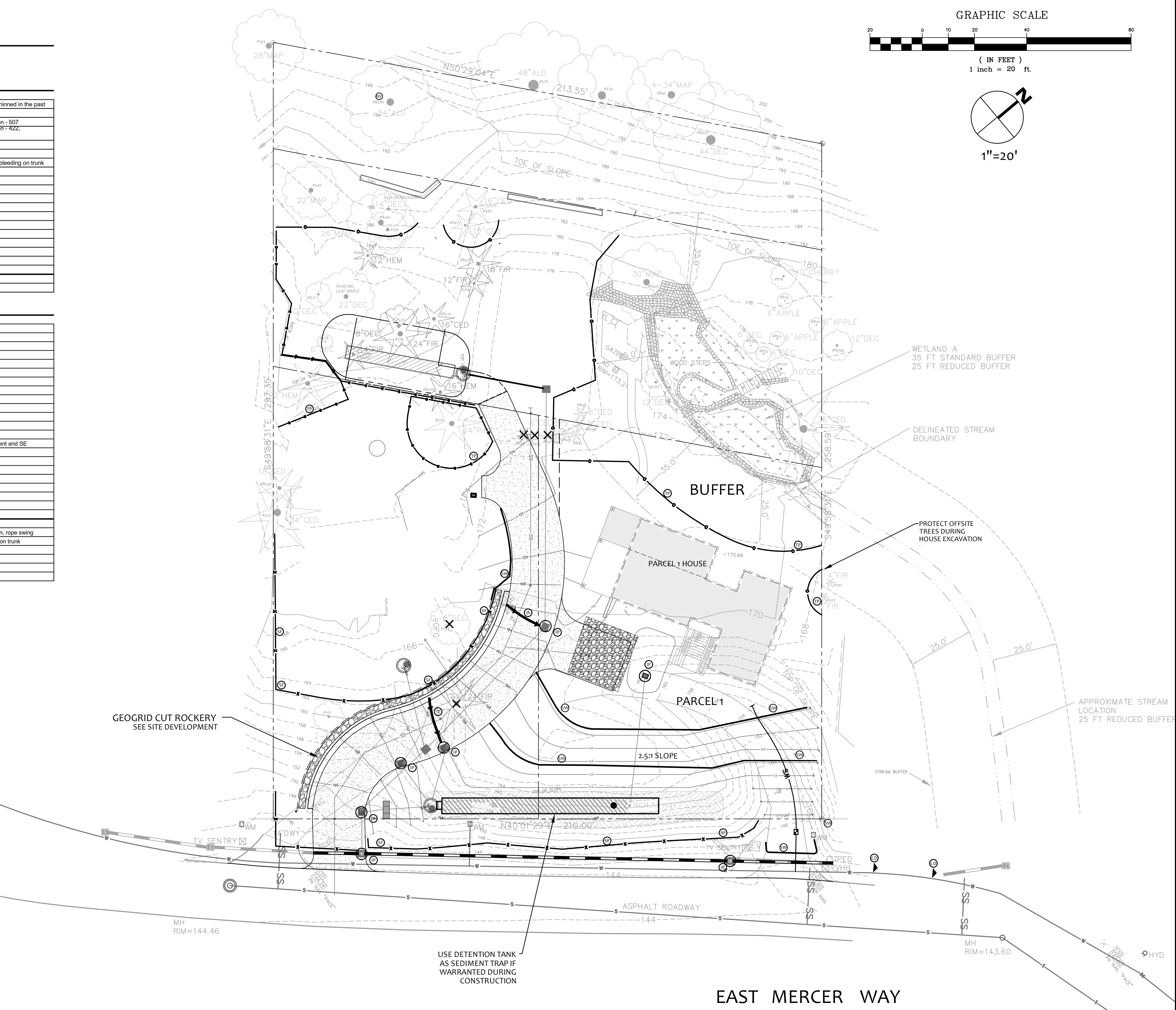
Tree/Tag #	Species	DBH (inches)	Height (feet)	Drip-Line/Limits of Disturbance (feet)			Condition	Viability	Comments	
				N	S	E				
8185	Douglas fir	26	85		17/12	15/12	good	viable	driveway is 12' south of tree, good taper, was crown thinned in the past	
101	deciduous ornamental	5.7	20	15/8	10/8	10/8	good	viable	forks at 2, was topped	
8538	western red cedar	19	55	13/12		18/12	fair-poor	borderline	was topped in the past, lots of new leaders, pink ribbon - 507	
422	western red cedar	9.22	55	14/12		16/12	fair-poor	borderline	was topped in the past, lots of new leaders, pink ribbon - 422, co-dominant stem forks at 1'	
508	western hemlock	22	75	22/15		13/15	fair	viable	hemlock woolly adelgid	
518	deciduous				23/15		good	viable		
8467	sika spruce	17	75	6/10	16/10	20/10	4/10	fair	viable	foliage dieback, co dominant stems fork at 40', minor bleeding on trunk
521	Washington hawthorne	9	52	12/6			fair	viable	suppressed	
519	Douglas fir	22	125		14/12	11/12	6/12	good	viable	no concerns
520	European mountain ash	7	25	15/6	10/6	13/6		good	viable	co-dominant forks at 10'
8509	western hemlock	20	90	15/12	12/12	14/12	8/12	fair	viable	was crown thinned, poor form, spike knot
510	western white pine	22	95	12/12	18/12	15/10	12/12	fair	viable	was pruned
8510	western red cedar	17	75	11/10	12/10	5/10	11/10	fair	viable	ribbon - 841, 15 deg lean NW, lean self correcting
8464	western hemlock	12	88		10/8		2/8	fair	viable	ribbon - 535, covered in ivy, crown thinned
551	big leaf maple	19	90			12/10		fair	viable	ivy covering the trunk
8462	big leaf maple	18	90	5/10			18/10	fair	viable	ribbon - 560, forks at 1', dead co-dominant stem
540	big leaf maple	22	90	25/15	25/15	17/15	10/15	good	viable	some past branch failure, good form
328	deciduous	6.6	12	8	10	5	5	fair	viable	
8280	red alder	25	95					poor	non-viable	ribbon - 548

Neighboring Trees

Tree/Tag #	Species	DBH (inches)	Height (feet)	Drip-Line/Limits of Disturbance (feet)			Condition	Viability	Comments	
				N	S	E				
8471	western red cedar	11	50	10/8	10/8	12/8	9/8	good	viable	ribbon - 542
8432	big leaf maple	38	100		38/20	35/20		fair	viable	ribbon - 837, leans SE, some dead branches
839	Pyramidalis arborvitae	5	25					fair	viable	
8497	Pyramidalis arborvitae	10	15					fair-poor	borderline	topped, co dominant stems, ribbon - 840
841	Pyramidalis arborvitae	6	28					fair	viable	
842	Pyramidalis arborvitae	6	30					fair	viable	
843	Pyramidalis arborvitae	6	30					fair	viable	
8498	Pyramidalis arborvitae	7	30					fair	viable	ribbon - 844
845	Pyramidalis arborvitae	6	35					fair	viable	
846	Pyramidalis arborvitae	7	35					fair	viable	
564	Douglas-fir	13	92	7/8	10/8	4/8		good	viable	good taper
8470	Douglas-fir	18	95	12/8		12/8	6/8	good	viable	ribbon - 563, good taper
562	western red cedar	18	65	11/10		15/12	5/10	good	viable	no concerns
8401	big leaf maple	36	95	20/18	25/10	29/10	26/18	fair	viable	ribbon - 845, some past branch failures, pond is adjacent and SE
787	cherry	13	18					poor	non-viable	growths
8100	deciduous	8	22	4/4	15/4	4/4		fair-poor	borderline	ribbon - 834, leans south, foliage discoloration
835	fruit	5.2	20	5/4	4/4	8/4		fair	viable	
833	apple	6	18	5/4	2/4	4/4	4/4	fair	viable	
819	fruit tree	5.3	15	4/4	10/4	5/4	5/4	fair	viable	
818	cherry	9	22				10/8	fair	viable	cherry gummosis, heavy pruning
820	fruit tree	5.2	12	2/4	8/4	4/4	6/4	fair	viable	pruned
798	western red cedar	26	70	10/12	15/12		18/12	fair	viable	growing on a stump, picture

Neighboring Trees

Drip-Line and Limits of Disturbance measurements from face of trunk
Trees on neighboring properties - Drip-line and Limits of Disturbance measurements from property lines



NO.	DATE	BY	REVISIONS

APPLICANT
New Horizon Real Estate
Development
8744 126th Ave NE
Kirkland, WA 98033

811
Know what's below.
Call before you dig.

DATE: Apr 13, 2018
JOB# 1337
DRAFTED: CH DESIGN: DE
DIGITAL SIGNATURE

CIVIL ENGINEERING SOLUTIONS

102 NW CANAL STREET SEATTLE, WA 98107
PHONE: 206.930.0342 DUFFY@CESOLUTIONS.US

APR 13, 2018
Professional Engineer Seal

EROSION CONTROL PLAN
PARCEL 1
New Horizon Real Estate Development
8375 AND 8383 EAST MERCER WAY
MERCER ISLAND, WA 98040

DRAWING NO:
C1.0
APN 032110-0145
& 032110-0140

RECOMMENDED CONSTRUCTION SEQUENCE

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

1. HOLD AN ONSITE PRE-CONSTRUCTION MEETING.
2. POST SIGN WITH NAME AND PHONE NUMBER OF ESC SUPERVISOR (MAY BE CONSOLIDATED WITH THE REQUIRED NOTICE OF CONSTRUCTION SIGN).
3. FLAG OR FENCE CLEARING LIMITS.
4. INSTALL CATCH BASIN PROTECTION, IF REQUIRED.
5. GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).
6. INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).
7. CONSTRUCT SEDIMENT PONDS AND TRAPS.
8. GRADE AND STABILIZE CONSTRUCTION ROADS.
9. CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.
10. MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY OF MERCER ISLAND STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
11. RELOCATE SURFACE SURFACE WATER CONTROLS OR TESC MEASURES, OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE TESC IS ALWAYS IN ACCORDANCE WITH CITY OF MERCER ISLAND TESC REQUIREMENTS.
12. COVER ALL AREAS THAT WILL BE UN-WORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON (MAY 1 TO SEPT 30) OR TWO DAYS DURING THE WET SEASON (OCT 1 TO APRIL 30) WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING, OR EQUIVALENT.
13. STABILIZE ALL AREAS WITHIN SEVEN DAYS OF REACHING FINAL GRADE.
14. SEED, SOD, STABILIZE, OR COVER ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
15. UPON COMPLETION OF THE PROJECT, STABILIZE ALL DISTURBED AREAS AND REMOVE BMPs IF APPROPRIATE.

DENUDED AREAS REQUIREMENTS

APRIL 1 TO SEPT 30
ALL DENUDED AREAS MUST BE STABILIZED WITHIN 7 DAYS OF CONSTRUCTION. PLEASE READ ALL CITY TESC NOTES ON SHEET C1.2.

OCT 1 TO MARCH 31
ALL DENUDED AREAS MUST BE STABILIZED WITHIN 2 DAYS OF GRADING. IF AN EROSION PROBLEM ALREADY EXISTS ON THE SITE, OTHER COVER PROTECTION AND EROSION CONTROL WILL BE REQUIRED.

EROSION CONTROL NOTES

D.8.2 STANDARD ESC PLAN NOTES
THE STANDARD ESC PLAN NOTES MUST BE INCLUDED ON ALL ESC PLANS. AT THE APPLICANT'S DISCRETION, NOTES THAT IN NO WAY APPLY TO THE PROJECT MAY BE OMITTED; HOWEVER, THE REMAINING NOTES MUST NOT BE RENUMBERED. FOR EXAMPLE, IF ESC NOTE #3 WERE OMITTED, THE REMAINING NOTES SHOULD BE NUMBERED 1, 2, 4, 5, 6, ETC.

1. APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY SURVEY TAPE OR FENCING, IF REQUIRED, PRIOR TO CONSTRUCTION (SWDM APPENDIX D). DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
4. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS CONSTRUCTED WHEEL WASH SYSTEMS OR WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN AND TRACK OUT TO ROAD RIGHT OF WAY DOES NOT OCCUR FOR THE DURATION OF THE PROJECT.
5. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
6. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G. ADDITIONAL COVER MEASURES, ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, PERIMETER PROTECTION ETC.) AS DIRECTED BY CITY OF MERCER ISLAND.
7. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES.
8. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO CONSECUTIVE DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
9. ANY AREA NEEDING ESC MEASURES THAT DO NOT REQUIRE IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS.
10. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH DURING THE DRY SEASON, BI-MONTHLY DURING THE WET SEASON, OR WITHIN TWENTY FOUR (24) HOURS FOLLOWING A STORM EVENT.
11. AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
12. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE ROUGH GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY.
13. COVER MEASURES WILL BE APPLIED IN CONFORMANCE WITH APPENDIX D OF THE SURFACE WATER DESIGN MANUAL.
14. PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON.

CITY NOTES

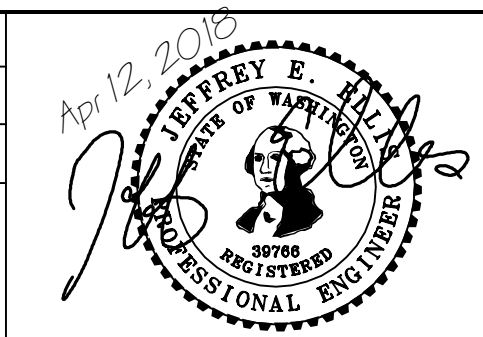
1. ANY CHANGES TO THE APPROVED PLANS REQUIRES CITY APPROVAL THROUGH A REVISION.
2. APPLICANT IS RESPONSIBLE FOR ANY DAMAGES TO UNDERGROUND UTILITIES CAUSED FROM THIS CONSTRUCTION.
3. CATCH BASIN FILTERS SHOULD BE PROVIDED FOR ALL STORM DRAIN CATCH BASINS/INLETS DOWNSLOPE AND WITHIN 500 FEET OF THE CONSTRUCTION AREA. CATCH BASIN FILTERS SHOULD BE DESIGNED BY THE MANUFACTURER FOR USE AT CONSTRUCTION SITES AND APPROVED BY THE CITY INSPECTOR. CATCH BASIN FILTERS SHOULD BE INSPECTED FREQUENTLY, ESPECIALLY AFTER STORM EVENTS. IF THE FILTER BECOMES CLOGGED, IT SHOULD BE CLEANED OR REPLACED.
4. CONTRACTORS SHALL VERIFY LOCATIONS AND DEPTHS OF UTILITES.
5. AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, CALL "ONE CALL" AT 1.800.424-5555
6. DO NOT BACKFILL WITH NATIVE MATERIAL ON PUBLIC RIGHT-OF-WAY. ALL MATERIAL MUST BE IMPORTED
7. EROSION CONTROL: ALL "LAND DISTURBING ACTIVITY" IS SUBJECT TO PROVISIONS OF MERCER ISLAND ORDINANCE 95C-118 "STORM WATER MANAGEMENT." SPECIFIC ITEMS TO BE FOLLOWED AT YOUR SITE:
8. PROTECT ADJACENT PROPERTIES FROM ANY INCREASED RUNOFF OR SEDIMENTATION DUE TO THE CONSTRUCTION PROJECT THROUGH THE USE OF APPROPRIATE "BEST MANAGEMENT PRACTICES" (BMP) EXAMPLES INCLUDE, BUT ARE NOT LIMITED TO, SEDIMENT TRAPS, SEDIMENT PONDS, FILTER FABRIC FENCES, VEGETATIVE BUFFER STRIPS OR BIOENGINEERED SWALES.
9. CONSTRUCTION ACCESS TO THE SITE SHOULD BE LIMITED TO ONE ROUTE. STABILIZE ENTRANCE WITH QUARRY SPALLS TO PREVENT SEDIMENT FROM LEAVING THE SITE OR ENTERING THE STORM DRAINS.
10. PREVENT SEDIMENT, CONSTRUCTION DEBRIS, PAINTS, SOLVENTS, ETC., OR OTHER TYPES OF POLLUTION FROM ENTERING PUBLIC STORM DRAINS. KEEP ALL POLLUTION ON YOUR SITE.
11. ALL EXPOSED SOILS SHALL REMAIN DENUDED FOR NO LONGER THAN SEVEN (7) DAYS AND SHALL BE STABILIZED WITH MULCH, HAY, OR THE APPROPRIATE GROUND COVER. ALL EXPOSED SOILS SHALL BE COVERED IMMEDIATELY DURING ANY RAIN EVENT.
12. INSTALLATION OF CONCRETE DRIVEWAYS, TREES, SHRUBS, IRRIGATION, BOULDERS, BERMS, WALLS, GATES, AND OTHER IMPROVEMENTS ARE NOT ALLOWED IN THE PUBLIC RIGHT-OF-WAY WITHOUT PRIOR APPROVAL, AND AN ENCROACHMENT AGREEMENT AND RIGHT OF WAY PERMIT FROM THE SENIOR DEVELOPMENT ENGINEER.
13. OWNER SHALL CONTROL DISCHARGE OF SURFACE DRAINAGE RUNOFF FROM EXISTING AND NEW IMPERVIOUS AREAS IN A RESPONSIBLE MANNER. CONSTRUCTION OF NEW GUTTERS AND DOWNSPOUTS, DRY WELLS, LEVEL SPREADERS OR DOWNSTREAM CONVEYANCE PIPE MAY BE NECESSARY TO MINIMIZE DRAINAGE IMPACT TO YOUR NEIGHBORS. CONSTRUCTION OF MINIMUM DRAINAGE IMPROVEMENTS SHOWN OR CALLED OUT ON THIS PLAN DOES NOT IMPLY RELIEF FROM CIVIL LIABILITY FOR YOUR DOWNSTREAM DRAINAGE.
14. POT HOLING THE PUBLIC UTILITIES IS REQUIRED PRIOR TO ANY GRADING ACTIVITIES LESS THAN 6" OVER THE PUBLIC MAINS (WATER, SEWER AND STORM SYSTEMS). IF THERE IS A CONFLICT, THE APPLICANT IS REQUIRED TO SUBMIT A REVISION FOR APPROVAL PRIOR TO ANY GRADING ACTIVITIES OVER THE PUBLIC MAINS.
15. REMEMBER: EROSION CONTROL IS YOUR FIRST INSPECTION.
16. ROOF DRAINS MUST BE CONNECTED TO THE STORM DRAIN SYSTEM AND INSPECTED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO ANY BACKFILLING OF PIPE.
17. SILENT FENCE: CLEAN AND PROVIDE REGULAR MAINTENANCE OF THE SILT FENCE. THE FENCE IS TO REMAIN VERTICAL AND IS TO FUNCTION PROPERLY THROUGHOUT THE TERM OF THE PROJECT.
18. WORK IN PUBLIC RIGHT OF WAY REQUIRES A RIGHT-OF-WAY USE PERMIT.
19. REFER TO WATER SERVICE PERMIT FOR ACTUAL LOCATION OF NEW WATER METER AND SERVICE LINE DETERMINED BY MERCER ISLAND WATER DEPARTMENT.
16. THE TV INSPECTION OF THE EXISTING SIDE SEWER TO THE CITY SEWER MAIN IS REQUIRED. IF THE RESULT OF THE TV INSPECTION IS NOT IN SATISFACTORY CONDITION, AS DETERMINED BY THE CITY OF MERCER ISLAND INSPECTOR, THE REPLACEMENT OF THE EXISTING SIDE SEWER IS REQUIRED. ALTERNATELY, A PRESSURE TEST OF THE SIDE SEWER, FROM SEWER MAIN TO POINT OF CONNECTION, MAY BE SUBSTITUTED FOR THE VIDEO INSPECTION.
20. NEWLY INSTALLED SIDE SEWER REQUIRES A 4 P.S.I. AIR TEST OR PROVIDE 10' OF HYDROSTATIC HEAD TEST.
21. POT HOLING THE PUBLIC UTILITIES IS REQUIRED PRIOR TO ANY GRADING ACTIVITIES LESS THAN 6" OVER THE PUBLIC MAINS (WATER, SEWER AND STORM SYSTEMS). IF THERE IS A CONFLICT, THE APPLICANT IS REQUIRED TO SUBMIT A REVISION FOR APPROVAL PRIOR TO ANY GRADING ACTIVITIES OVER THE PUBLIC MAINS.
22. THE LIMITS AND EXTENDS OF THE PAVEMENT IN THE PUBLIC RIGHT OF WAY SHALL BE DETERMINED BY THE CITY ENGINEER PRIOR TO FINALIZE THE PROJECT.

NO.	DATE	BY	REVISIONS

APPLICANT
New Horizon Real Estate
Development
8744 126th Ave NE
Kirkland, WA 98033



DATE: Apr 12, 2018
JOB# 1337
DRAFTED: CH DESIGN: DE
DIGITAL SIGNATURE



CIVIL ENGINEERING SOLUTIONS
102 NW CANAL STREET SEATTLE, WA 98107
PHONE: 206.930.0342 DUFFY@CESOLUTIONS.US

TESCP NOTES
PARCEL 1-3
New Horizon Real Estate Development
8375 AND 8383 EAST MERCER WAY
MERCER ISLAND, WA 98040

DRAWING NO:
C1.2
APN 032110-0145
& 032110-0140

FLOOR PLAN NOTES:

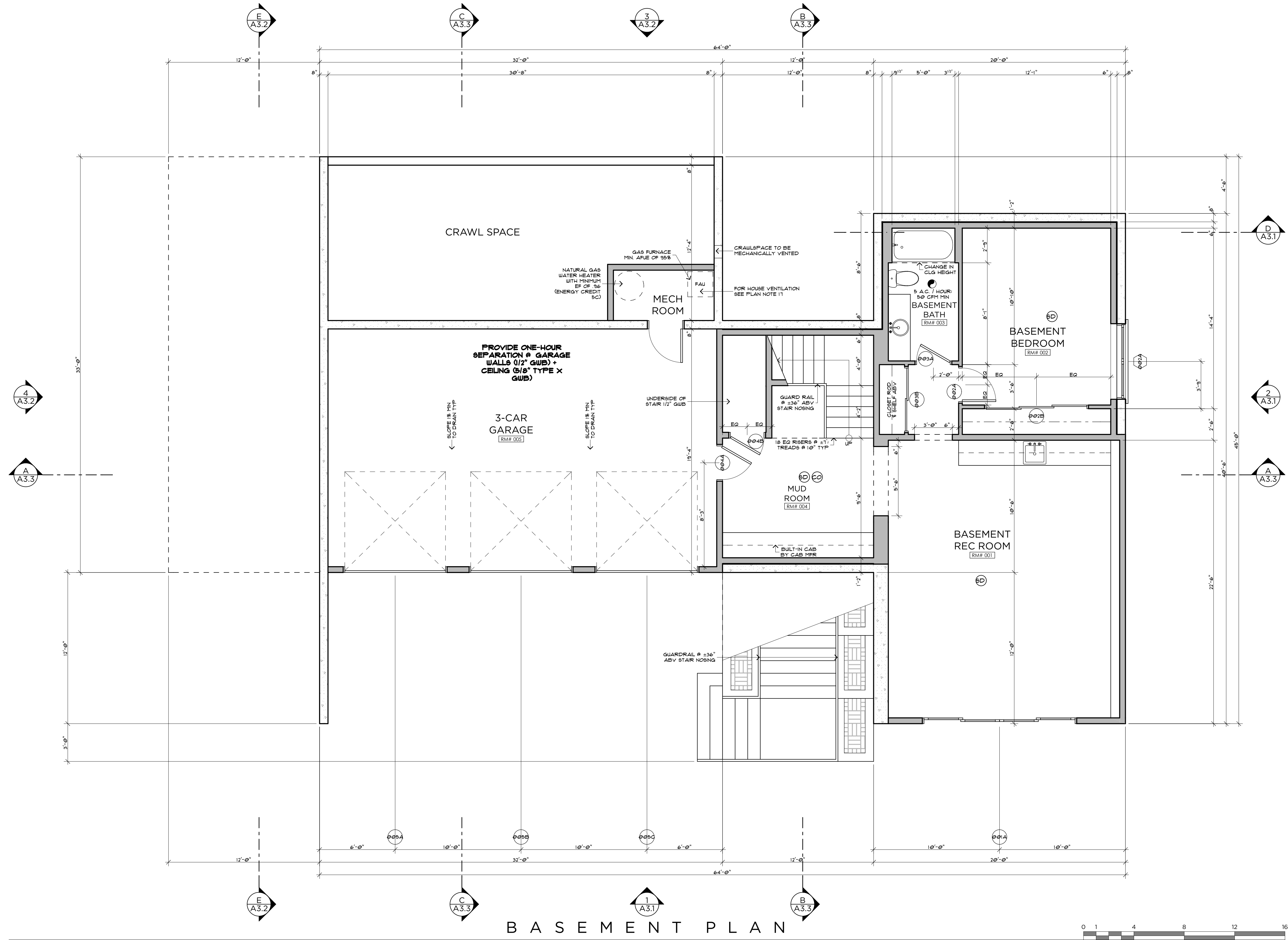
- THIS PROJECT SHALL BE DESIGNED, ENGINEERED, + CONSTRUCTED IN FULL COMPLIANCE W/ ALL CODES + REGULATIONS.
- ALL EXTERIOR WALLS SHALL BE 2x6 UNO.
- ALL INTERIOR WALLS SHALL BE 2x6 UNO.
- ALL HANDRAILS SHALL BE LOCATED @ 36" ABOVE STAIR NOSING WITH A GRASP DIMENSION BETWEEN 1 1/4" - 2".
- ALL HANDRAILS SHALL BE CONTINUOUS OR TERMINATE AT NEWEL POST.
- ALL GUARDRAILS SHALL BE 36" ABOVE FINISHED FLOOR AND DESIGNED SUCH THAT THE MAXIMUM OPENING WILL NOT ALLOW PASSAGE OF A 4" SPHERE.
- ALL GUARDRAILS SHALL BE DESIGNED TO RESIST A 200LB CONCENTRATED LOAD AT THE TOP RAIL AND 50 PSF ON ALL GUARDRAIL INFILL COMPONENTS.
- 5/8" GWB AT ALL GARAGE WALLS AND CEILING AS WELL AS ANY POSTS + BEAMS.
- ACCESSIBLE AREA UNDER STAIR SHALL BE 1/2" GWB MINIMUM PER 502.7.
- PROVIDE A PROGRAMMABLE THERMOSTAT FOR THE PRIMARY SPACE CONDITIONING SYSTEM WITHIN EACH DWELLING UNIT PER SEC R403.11.
- A MINIMUM OF 75 PERCENT OF PERMANENTLY INSTALLED LAMPS IN LIGHTING FIXTURES SHALL BE HIGH-EFFICACY LAMPS.
- ALL SHOWERHEADS + KITCHEN SINK FAUCETS INSTALLED IN THE UNIT SHALL BE RATED AT 1.75 GPM OR LESS. ALL OTHER LAVATORY FAUCETS SHALL BE RATED AT 1.0 GPM OR LESS.
- ALL EXHAUST AIR SHALL VENT DIRECTLY TO THE EXTERIOR OF THE BUILDING PER M501.1 AND M506.2.
- CLOTHES DRYER SHALL BE EXHAUSTED TO THE OUTSIDE PER M502.1.
- ALL STAIRS SHALL MEET FOLLOWING REQUIREMENTS:
 - MINIMUM 36" WIDTH.
 - MAXIMUM 7 3/4" RISER, MINIMUM 10" TREAD.
 - MINIMUM 6'-8" HEAD ROOM.
 - MINIMUM LANDING LENGTH 36".
- A WRITTEN REPORT OF THE AIR LEAKAGE TEST RESULTS SHALL BE SIGNED BY THE TESTING PARTY AND PROVIDED TO THE BUILDING INSPECTOR PRIOR TO CALL FOR FINAL INSPECTION. AIR LEAKAGE SHALL NOT EXCEED 2.0 AIR CHANGES/HOUR.
- WHOLE HOUSE VENTILATION INTEGRATED WITH FORCED-AIR SYSTEM PER SRC M507.3.5 AND SHALL RUN INTERMITTENTLY.
- FIRE-BLOCKING SHALL BE PROVIDED IN THE FOLLOWING AREAS:
 - CONCEALED SPACES OF STUD WALLS VERTICALLY BETWEEN CEILING AND FLOOR LEVELS + HORIZONTALLY AT INTERVALS NOT EXCEEDING 10FT

ENERGY CREDIT CALCULATIONS:

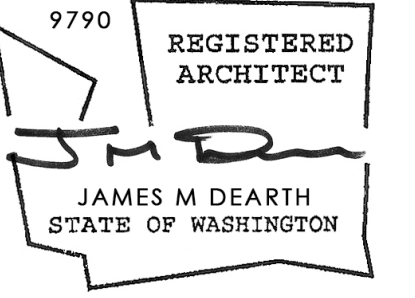
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|--|------------|
| 2b. A. TESTED AIR LEAKAGE SHALL BE 2.0 AIR CHANGES PER HOUR MAXIMUM. | 10 |
| B. HEAT RECOVERY VENTILATION SYSTEM SHALL BE INSTALLED WITH A MINIMUM SENSIBLE HEAT RECOVERY EFFICIENCY OF 0.70. | |
| 3a. PROPANE FURNACE WITH MINIMUM AFUE OF 94%. | 10 |
| 5c. PROPANE WATER HEATER WITH MINIMUM EF OF 0.91. | 15 |
| TOTAL CREDITS: | 3.5 |

CRAWL SPACE VENT CALC.S:

CRAWL SPACE AREA	378 FT ²
REQUIRED VENTILATION (1/750 th OF CRAWL SPACE AREA)	2.52 FT ²
PROPOSED VENTING (WITH 3 VENTS @ 1FT ² EACH)	3.00 FT²



B A S E M E N T P L A N
SCALE: 1/4" = 1'-0"



E M E R C E R
P A R C E L 1
8375 E. MERCER WAY
MERCER ISLAND, WA

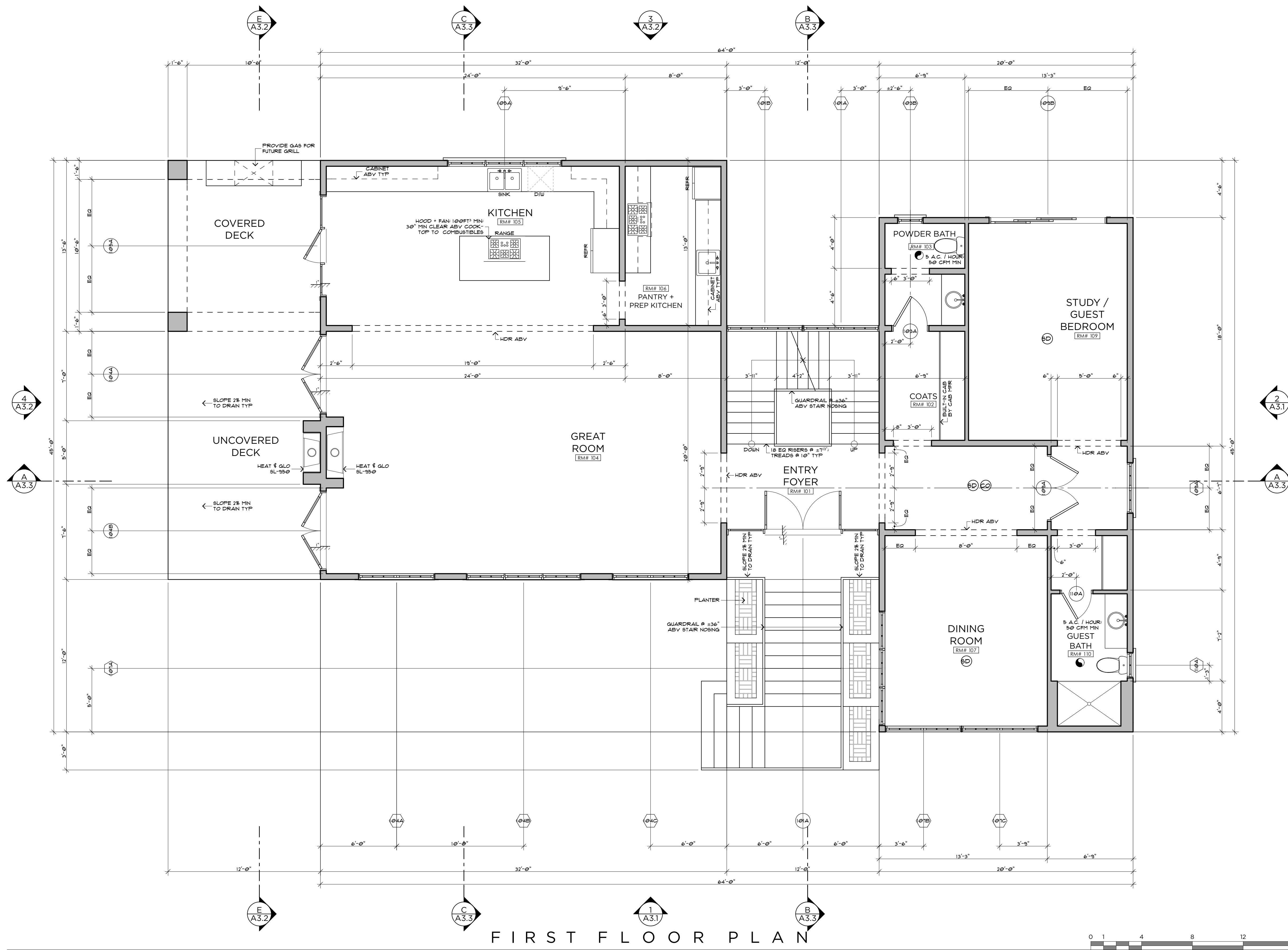
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RELEASE
BUILDING PERMIT
10 OCT 2017

FLOOR PLAN NOTES:

1. THIS PROJECT SHALL BE DESIGNED, ENGINEERED, + CONSTRUCTED IN FULL COMPLIANCE W/ ALL CODES + REGULATIONS.
2. ALL EXTERIOR WALLS SHALL BE 2x6 UNO.
3. ALL INTERIOR WALLS SHALL BE 2x6 UNO.
4. ALL HANDRAILS SHALL BE LOCATED @ 36" ABOVE STAIR NOSING WITH A GRASP DIMENSION BETWEEN 1 1/2" - 2".
5. ALL HANDRAILS SHALL BE CONTINUOUS OR TERMINATE AT NEWEL POST.
6. ALL GUARDRAILS SHALL BE 36" ABOVE FINISHED FLOOR AND DESIGNED SUCH THAT THE MAXIMUM OPENING WILL NOT ALLOW PASSAGE OF A 4" SPHERE.
7. ALL GUARDRAILS SHALL BE DESIGNED TO RESIST A 200LB CONCENTRATED LOAD AT THE TOP RAIL AND 50 PSF ON ALL GUARDRAIL INFILL COMPONENTS.
8. 5/8" GWB AT ALL GARAGE WALLS AND CEILING AS WELL AS ANY POSTS + BEAMS.
9. ACCESSIBLE AREA UNDER STAIR SHALL BE 1/2" GWB MINIMUM PER 302.7.
10. PROVIDE A PROGRAMMABLE THERMOSTAT FOR THE PRIMARY SPACE CONDITIONING SYSTEM WITHIN EACH DWELLING UNIT PER SEC R403.11.
11. A MINIMUM OF 75 PERCENT OF PERMANENTLY INSTALLED LAMPS IN LIGHTING FIXTURES SHALL BE HIGH-EFFICACY LAMPS.
12. ALL SHOWERHEADS + KITCHEN SINK FAUCETS INSTALLED IN THE UNIT SHALL BE RATED AT 1.75 GPM OR LESS. ALL OTHER LAVATORY FAUCETS SHALL BE RATED AT 1.0 GPM OR LESS.
13. ALL EXHAUST AIR SHALL VENT DIRECTLY TO THE EXTERIOR OF THE BUILDING PER M501 AND M506.2.
14. CLOTHES DRYER SHALL BE EXHAUSTED TO THE OUTSIDE PER M502.1
15. ALL STAIRS SHALL MEET FOLLOWING REQUIREMENTS:
 - A. MINIMUM 36" WIDTH.
 - B. MAXIMUM 7 3/4" RISER, MINIMUM 10" TREAD.
 - C. MINIMUM 6'-8" HEAD ROOM.
 - D. MINIMUM LANDING LENGTH 36"
16. A WRITTEN REPORT OF THE AIR LEAKAGE TEST RESULTS SHALL BE SIGNED BY THE TESTING PARTY AND PROVIDED TO THE BUILDING INSPECTOR PRIOR TO CALL FOR FINAL INSPECTION. AIR LEAKAGE SHALL NOT EXCEED 2.0 AIR CHANGES/HOUR.
17. WHOLE HOUSE VENTILATION INTEGRATED WITH FORCED-AIR SYSTEM PER SRC M507.3.5 AND SHALL RUN INTERMITTENTLY.
18. FIRE-BLOCKING SHALL BE PROVIDED IN THE FOLLOWING AREAS:
 - A. CONCEALED SPACES OF STUD WALLS VERTICALLY BETWEEN CEILING AND FLOOR LEVELS + HORIZONTALLY AT INTERVALS NOT EXCEEDING 10FT

ENERGY CREDIT CALCULATIONS:

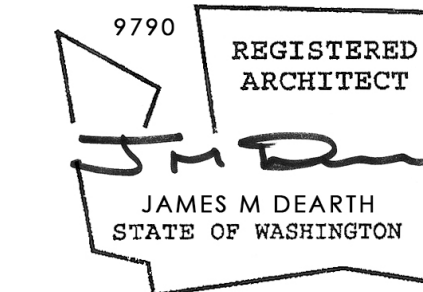
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|--|-------------|
| 2b. A. TESTED AIR LEAKAGE SHALL BE 2.0 AIR CHANGES PER HOUR MAXIMUM. | 10 |
| B. HEAT RECOVERY VENTILATION SYSTEM SHALL BE INSTALLED WITH A MINIMUM SENSIBLE HEAT RECOVERY EFFICIENCY OF 0.70. | 10 |
| 3a. PROPANE FURNACE WITH MINIMUM AFUE OF 94%. | 15 |
| 5c. PROPANE WATER HEATER WITH MINIMUM EF OF 0.91. | 3.5 |
| TOTAL CREDITS: | 38.5 |



RIPPLE
DESIGN STUDIO

206.913.2333

4303 STONE WAY N
SEATTLE, WA 98103



EMERSON PARCEL 1

8375 E. MERCER WAY MERCER ISLAND, WA

FIRST FLOOR PLAN

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A 2.1

EMERSON
PARCEL 1

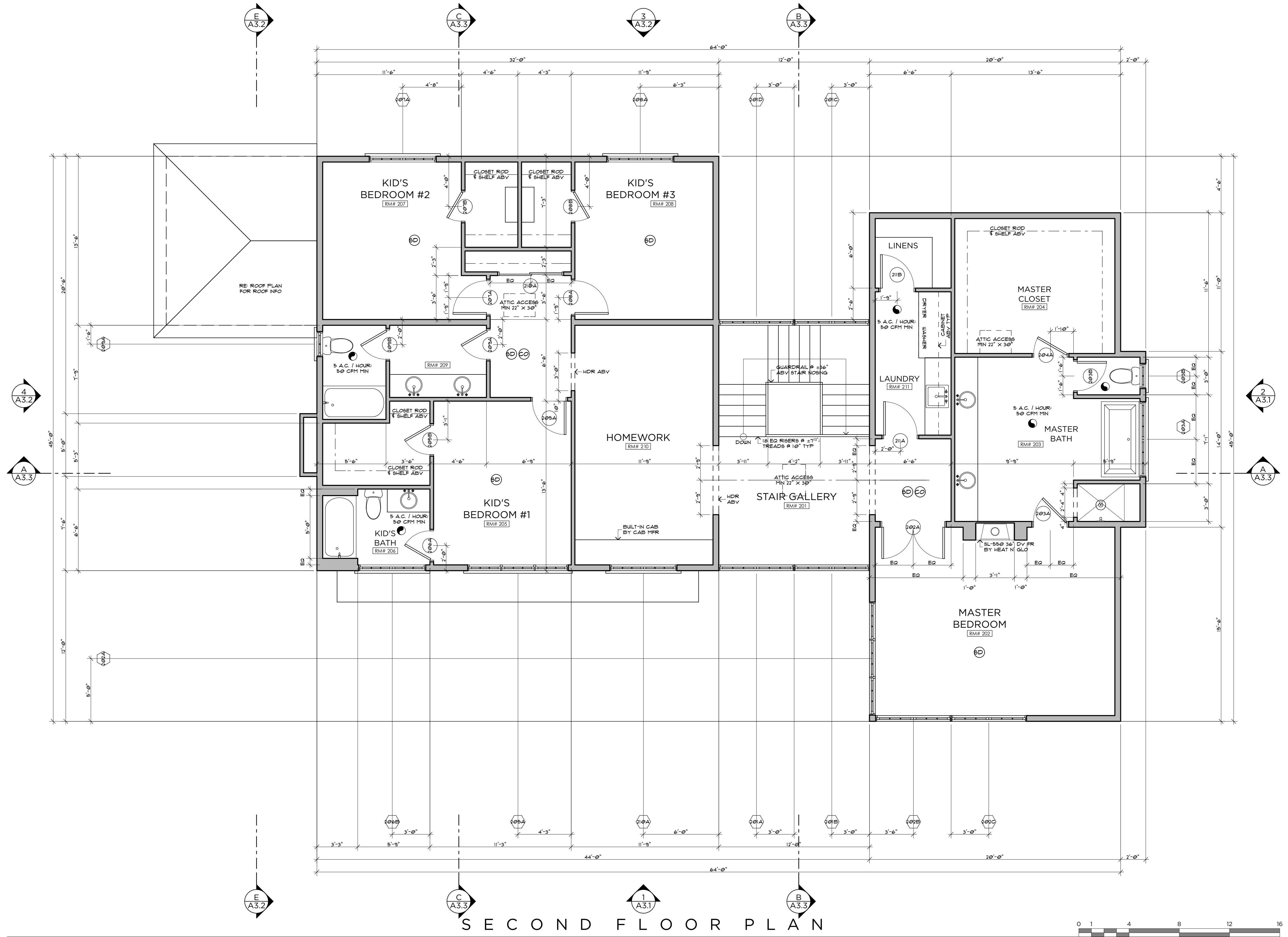


FLOOR PLAN NOTES:

- THIS PROJECT SHALL BE DESIGNED, ENGINEERED, + CONSTRUCTED IN FULL COMPLIANCE W/ ALL CODES + REGULATIONS.
- ALL EXTERIOR WALLS SHALL BE 2x6 UNO.
- ALL INTERIOR WALLS SHALL BE 2x6 UNO.
- ALL HANDRAILS SHALL BE LOCATED @ 36" ABOVE STAIR NOSING WITH A GRASP DIMENSION BETWEEN 1 1/2" - 2".
- ALL HANDRAILS SHALL BE CONTINUOUS OR TERMINATE AT NEVEL POST.
- ALL GUARDRAILS SHALL BE 36" ABOVE FINISHED FLOOR AND DESIGNED SUCH THAT THE MAXIMUM OPENING WILL NOT ALLOW PASSAGE OF A 4" SPHERE.
- ALL GUARDRAILS SHALL BE DESIGNED TO RESIST A 200LB CONCENTRATED LOAD AT THE TOP RAIL AND 50 PSF ON ALL GUARDRAIL INFILL COMPONENTS.
- 5/8" GWB AT ALL GARAGE WALLS AND CEILING AS WELL AS ANY POSTS + BEAMS.
- ACCESSIBLE AREA UNDER STAIR SHALL BE 1/2" GWB MINIMUM PER 502.7.
- PROVIDE A PROGRAMMABLE THERMOSTAT FOR THE PRIMARY SPACE CONDITIONING SYSTEM WITHIN EACH DWELLING UNIT PER SEC R403.11.
- A MINIMUM OF 75 PERCENT OF PERMANENTLY INSTALLED LAMPS IN LIGHTING FIXTURES SHALL BE HIGH-EFFICACY LAMPS.
- ALL SHOWERHEADS + KITCHEN SINK FAUCETS INSTALLED IN THE UNIT SHALL BE RATED AT 1.75 GPM OR LESS. ALL OTHER LAVATORY FAUCETS SHALL BE RATED AT 1.0 GPM OR LESS.
- ALL EXHAUST AIR SHALL VENT DIRECTLY TO THE EXTERIOR OF THE BUILDING PER M1501.1 AND M1506.2.
- CLOTHES DRYER SHALL BE EXHAUSTED TO THE OUTSIDE PER M1502.1.
- ALL STAIRS SHALL MEET FOLLOWING REQUIREMENTS:
 - MINIMUM 36" WIDTH.
 - MAXIMUM 7 3/4" RISER, MINIMUM 10" TREAD.
 - MINIMUM 6'-8" HEAD ROOM.
 - MINIMUM LANDING LENGTH 36"
- A WRITTEN REPORT OF THE AIR LEAKAGE TEST RESULTS SHALL BE SIGNED BY THE TESTING PARTY AND PROVIDED TO THE BUILDING INSPECTOR PRIOR TO CALL FOR FINAL INSPECTION. AIR LEAKAGE SHALL NOT EXCEED 2.0 AIR CHANGES/HOUR.
- WHOLE HOUSE VENTILATION INTEGRATED WITH FORCED-AIR SYSTEM PER SRC M1507.3.5 AND SHALL RUN INTERMITTENTLY.
- FIRE-BLOCKING SHALL BE PROVIDED IN THE FOLLOWING AREAS:
 - CONCEALED SPACES OF STUD WALLS VERTICALLY BETWEEN CEILING AND FLOOR LEVELS + HORIZONTALLY AT INTERVALS NOT EXCEEDING 10FT

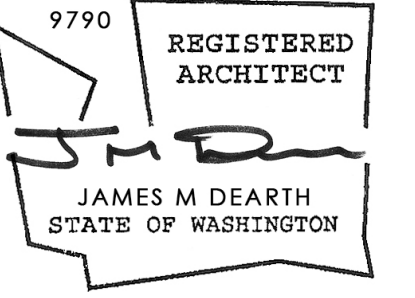
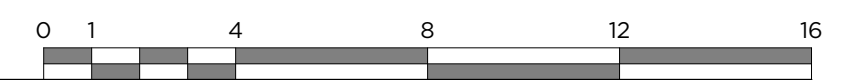
ENERGY CREDIT CALCULATIONS:

- | | |
|--|-------------|
| 2b. A. TESTED AIR LEAKAGE SHALL BE 2.0 AIR CHANGES PER HOUR MAXIMUM. | 10 |
| B. HEAT RECOVERY VENTILATION SYSTEM SHALL BE INSTALLED WITH A MINIMUM SENSIBLE HEAT RECOVERY EFFICIENCY OF 0.70. | 10 |
| 3a. PROPANE FURNACE WITH MINIMUM AFUE OF 94%. | 15 |
| 5c. PROPANE WATER HEATER WITH MINIMUM EF OF 0.91. | 3.5 |
| TOTAL CREDITS: | 38.5 |



SECOND FLOOR PLAN

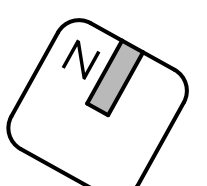
SCALE: 1/4" = 1'-0"



EMERCER
PARCEL 1
 8375 E. MERCER WAY
 MERCER ISLAND, WA

SECOND FLOOR PLAN
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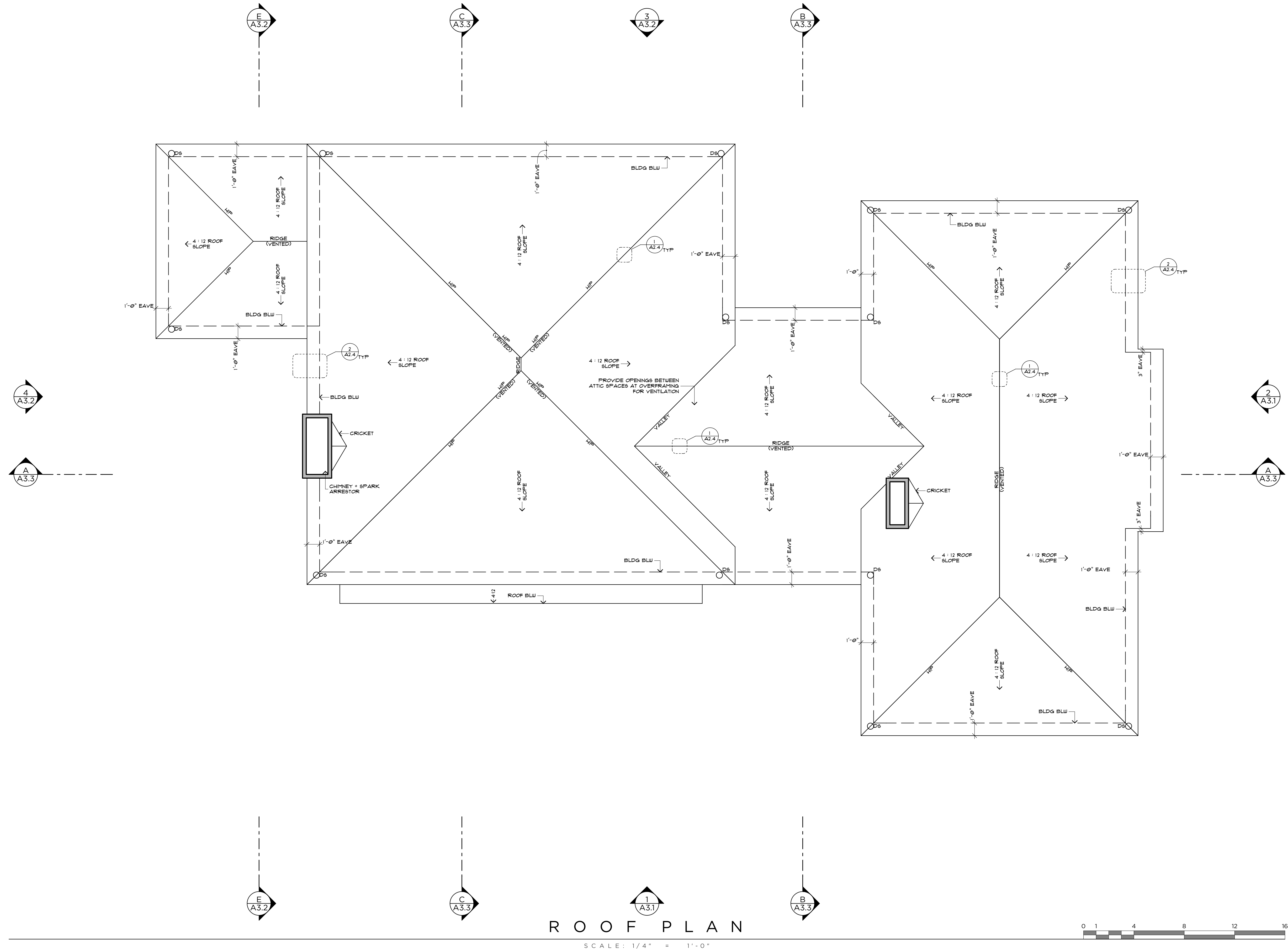


ROOF NOTES:

1. CHIMNEY SHALL EXTEND A MIN OF 2'-0" ABV ROOF OR PARAPET WITHIN 10'-0" RADIUS OF CHIMNEY. PROVIDE APPROVED SPARK ARRESTOR @ ALL CHIMNEY CAPS. ALL ARCHITECTURAL FEATURES MUST BE PERMITTED BY FLU + SPARK ARRESTOR MFR APPROVAL.
2. COORDINATE DOWNSPOUT LOCATION W/ RIPPLE DESIGN STUDIO, INC. PRIOR TO INSTALLATION.
3. ALL VENTS SHALL BE LOCATED AWAY FROM VISIBILITY @ PUBLIC RIGHT-OF-WAY.
4. TRUSS MANUFACTURERS TO PROVIDE TRUSS SHOP DRAWINGS TO RIPPLE DESIGN STUDIO FOR DESIGN APPROVAL PRIOR TO TRUSS MANUFACTURING.

ATTIC VENTILATION CALCULATIONS:

ATTIC AREA - MAIN ROOF	2,129.00
REQUIRED VENTING (1/150)	14.19
LINEAR FEET OF RIDGE / HIP VENTING	59.50
PROPOSED RIDGE / HIP VENTING	5.58
<small>(@115 sq in NET/ FOOT [COR-A-VENT V.3000])</small>	
LINEAR FEET OF EAVE VENTING	235.00
PROPOSED EAVE VENTING	10.25
<small>(@834 sq in PER 2" HOLE @ BLOCKING, 2 HOLES / FT = 6.28 sq in / FT)</small>	
TOTAL PROPOSED VENTILATION	15.83
ATTIC AREA - LOWER ROOF	161.50
REQUIRED VENTING (1/150)	1.08
LINEAR FEET OF RIDGE VENTING	5.00
PROPOSED RIDGE VENTING	0.31
<small>(@12 sq in NET/ FOOT)</small>	
LINEAR FEET OF EAVE VENTING	37.50
PROPOSED EAVE VENTING	1.64
<small>(@834 sq in PER 2" HOLE @ BLOCKING, 2 HOLES / FT = 6.28 sq in / FT)</small>	
TOTAL PROPOSED VENTILATION	1.95



ROOF PLAN

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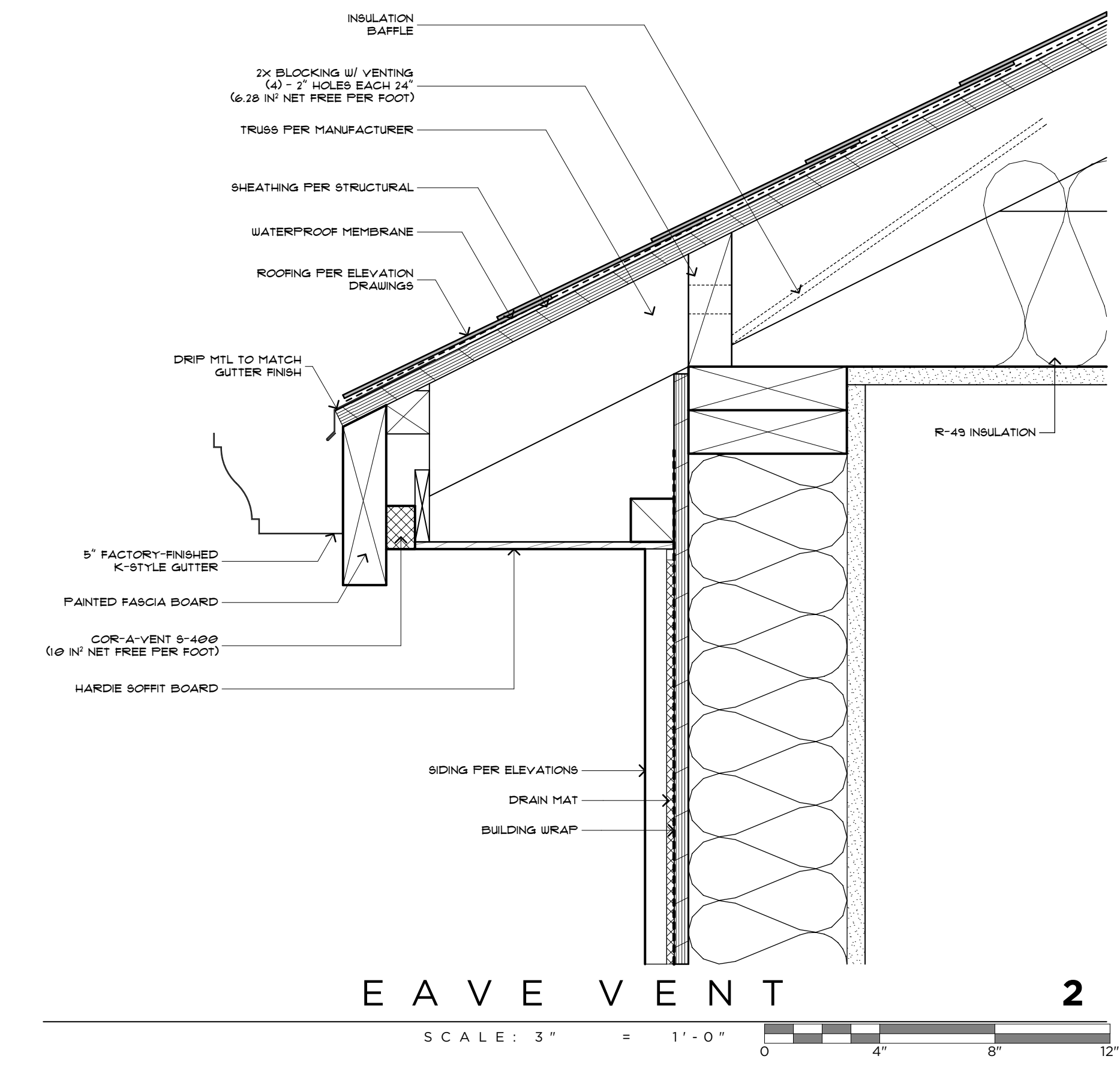
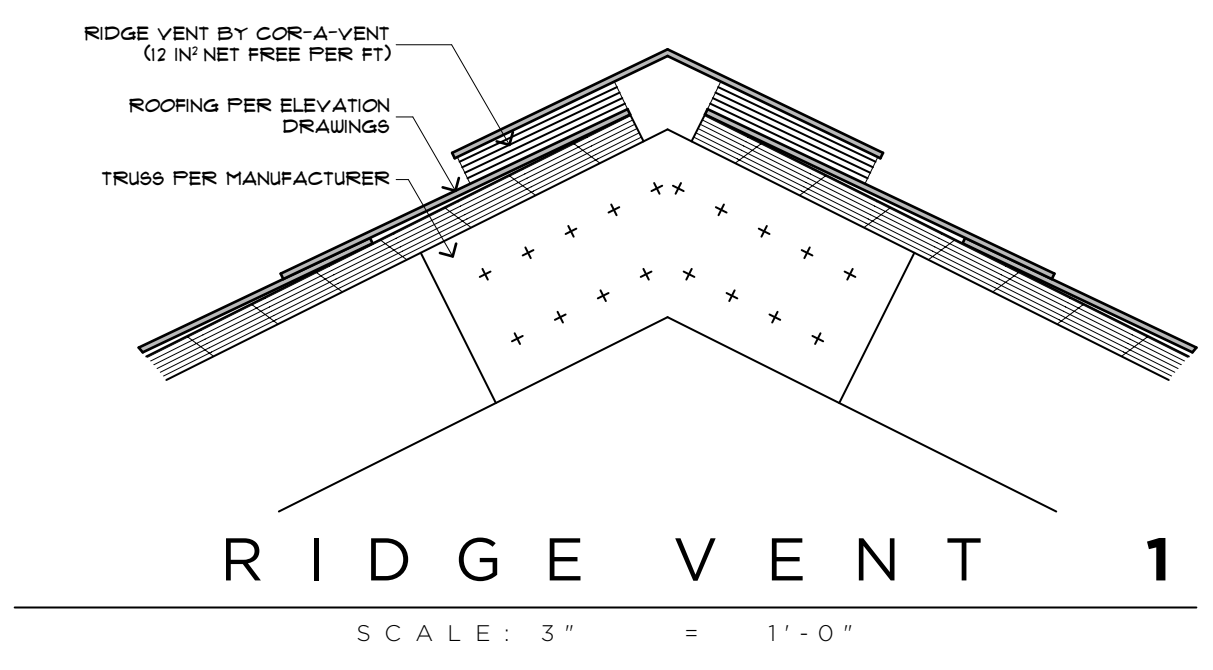
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ROOF NOTES:

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ATTIC VENTILATION CALCULATIONS:

ATTIC AREA - MAIN ROOF REQUIRED VENTING (1/150)	2,129.00 14.19
LINEAR FEET OF RIDGE / HIP VENTING PROPOSED RIDGE / HIP VENTING (@3.5 sq in NET/ FOOT (COR-A-VENT V-300))	59.50 5.58
LINEAR FEET OF EAVE VENTING PROPOSED EAVE VENTING (@3.14 sq in PER 2" HOLE @ BLOCKING, 2 HOLES / FT = 6.28 sq in / FT)	235.00 10.25
TOTAL PROPOSED VENTILATION	15.83
ATTIC AREA - LOWER ROOF REQUIRED VENTING (1/150)	161.50 1.08
LINEAR FEET OF RIDGE VENTING PROPOSED RIDGE VENTING (@12 sq in NET/ FOOT)	5.00 0.31
LINEAR FEET OF EAVE VENTING PROPOSED EAVE VENTING (@3.14 sq in PER 2" HOLE @ BLOCKING, 2 HOLES / FT = 6.28 sq in / FT)	37.50 1.64
TOTAL PROPOSED VENTILATION	1.95

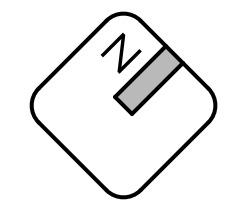


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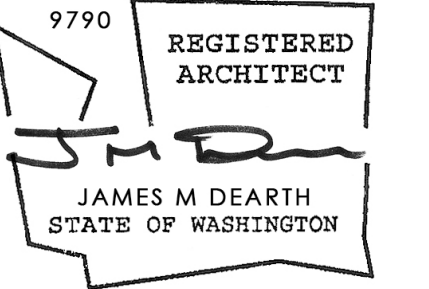
9790 REGISTERED ARCHITECT
JAMES M DEARTH
STATE OF WASHINGTON

E M E R C E R
P A R C E L 1
8375 E. MERCER WAY MERCER ISLAND, WA

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A 2 . 4
E
MERCER
PARCEL 1
AUG 2017
4/27/18



ELEVATION + SECTION NOTES:

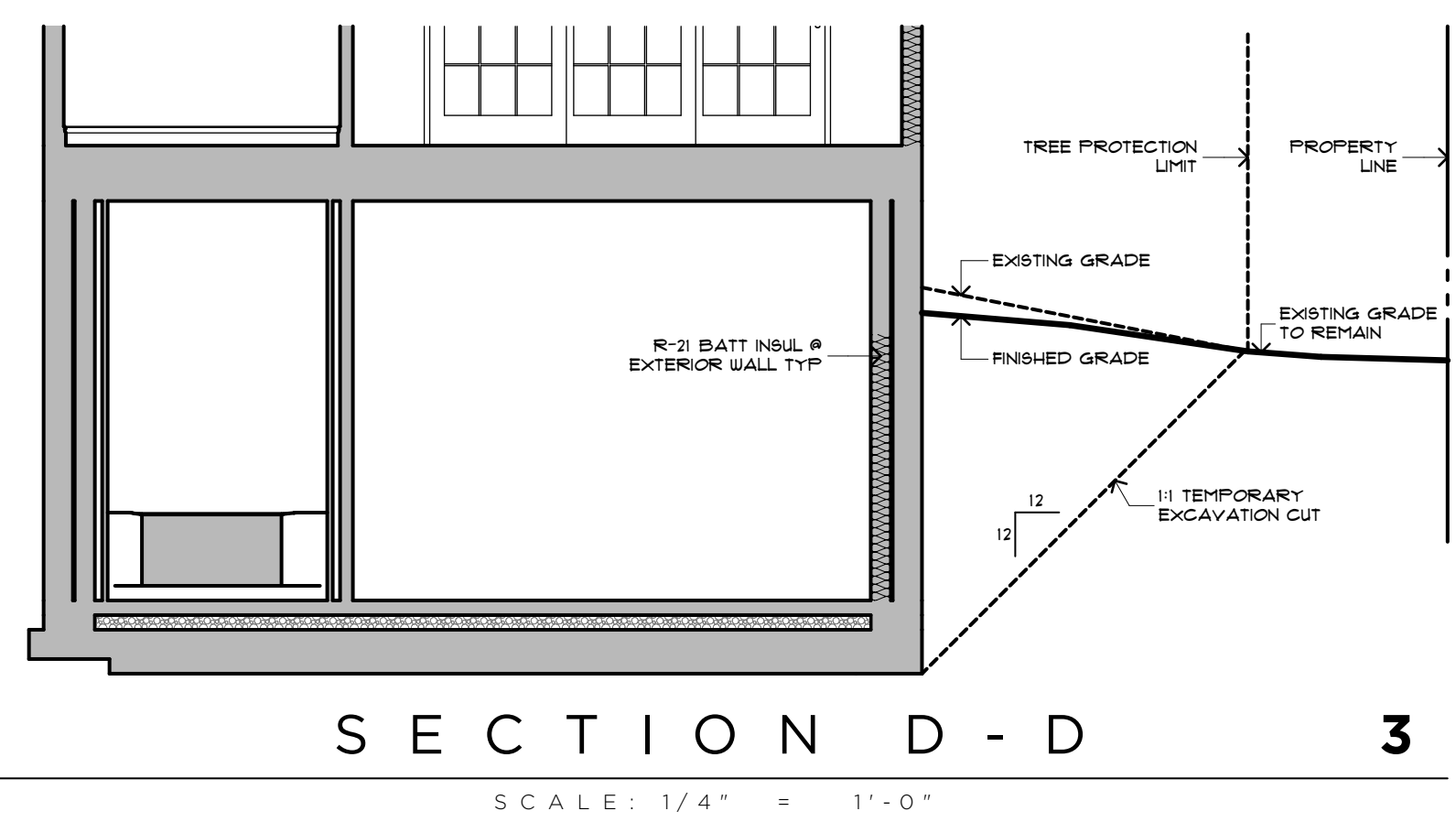
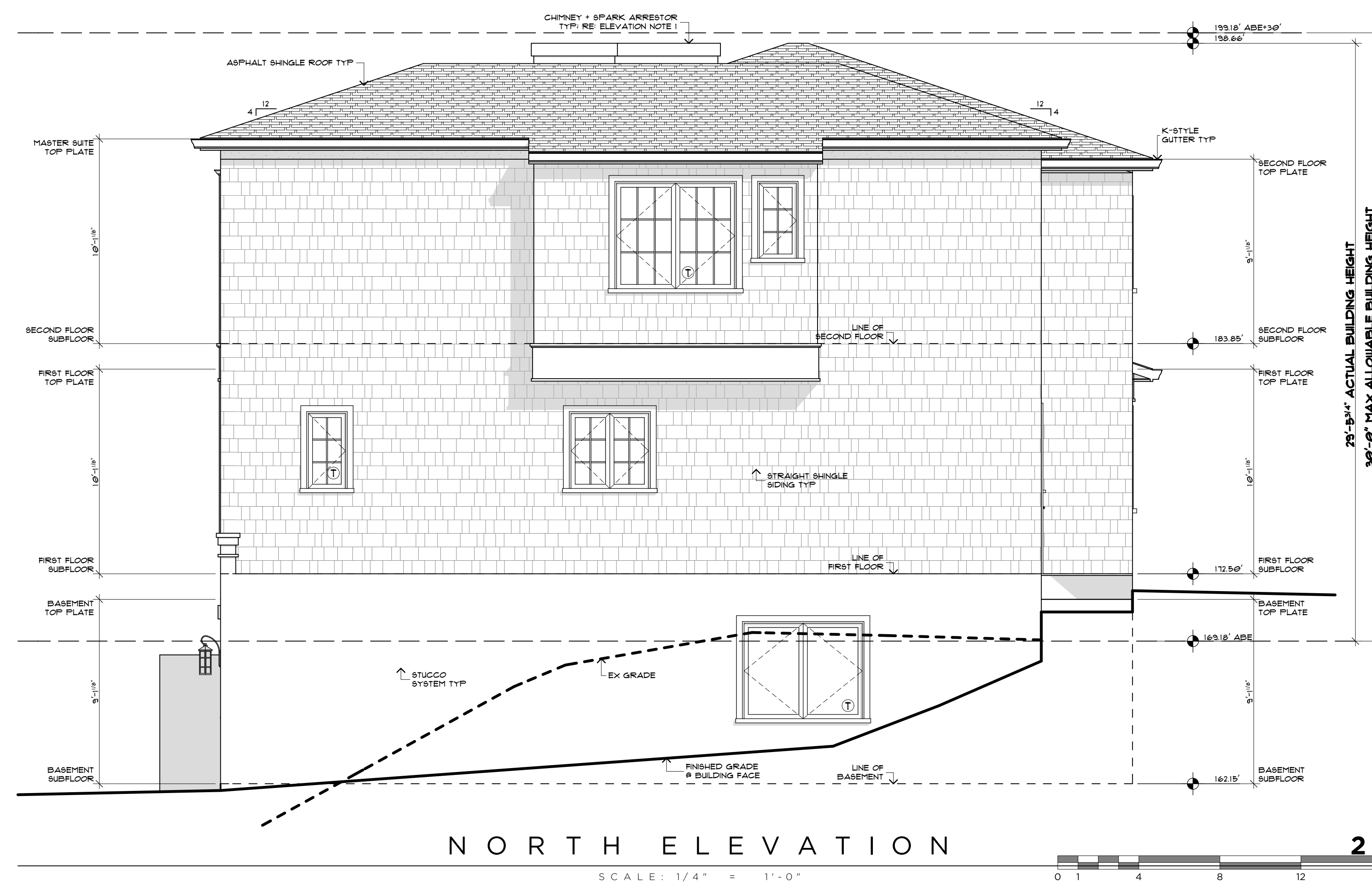
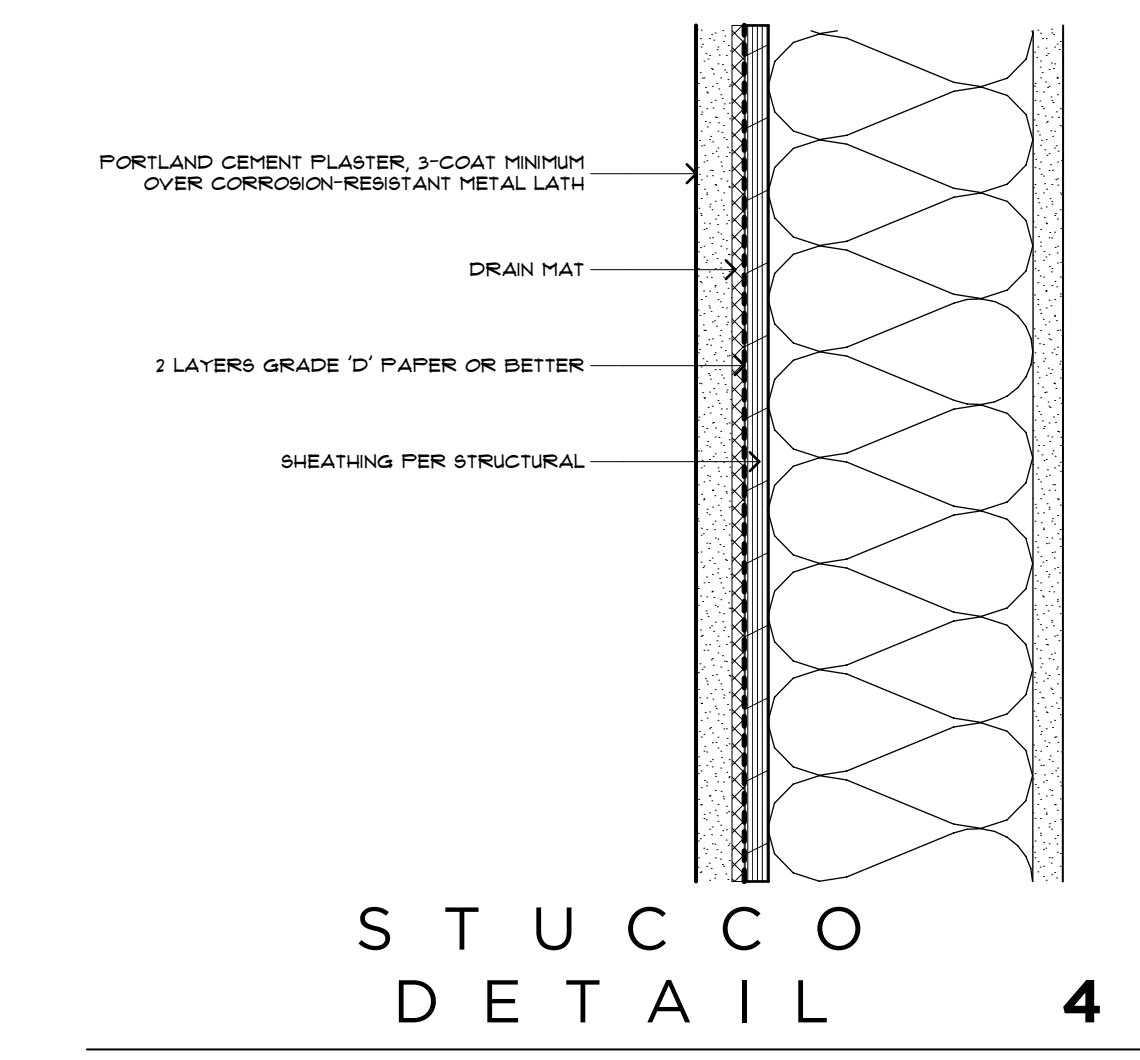
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2. OPEN GUARDRAILS SHALL HAVE INTERMEDIATE RAILS OR ORNAMENTAL PATTERN SUCH THAT A 4" SPHERE CANNOT PASS THROUGH.
3. STUCCO INSTALLATION SHALL BE IN COMPLIANCE WITH ASTM C 926, ASTM C 1063.

BASEMENT FLOOR AREA CALC.S:

WALL SEGMENT A LENGTH:	20'
WALL SEGMENT A COVERAGE:	100%
(20.00 FT % RESULT)	
WALL SEGMENT B LENGTH:	12'
WALL SEGMENT B COVERAGE:	100%
(12.00 FT % RESULT)	
WALL SEGMENT C LENGTH:	8.5'
WALL SEGMENT C COVERAGE:	100%
(8.50 FT % RESULT)	
WALL SEGMENT D LENGTH:	20'
WALL SEGMENT D COVERAGE:	75%
(5.00 FT % RESULT)	
WALL SEGMENT E LENGTH:	40.5'
WALL SEGMENT A COVERAGE:	50 FT %
(20.25 FT % RESULT)	
WALL SEGMENT F LENGTH:	20'
WALL SEGMENT B COVERAGE:	0%
(0.00 FT % RESULT)	
WALL SEGMENT G LENGTH:	12'
WALL SEGMENT C COVERAGE:	75%
(9.00 FT % RESULT)	
WALL SEGMENT H LENGTH:	12'
WALL SEGMENT D COVERAGE:	100%
(12.00 FT % RESULT)	
TOTAL SEGMENT LENGTHS:	145 FT
TOTAL SEGMENT COVERAGE RESULTS:	XX.XX FT %
GROSS BASEMENT FLOOR AREA	952 FT ²
GROSS BASEMENT FLOOR % TO BE EXCLUDED:	75%
GROSS BASEMENT FLOOR AREA TO BE EXCLUDED:	714.00 FT ²

AVERAGE BUILDING ELEVATION CALC.S:

ELEVATION @ POINT A:	169.50'
SEGMENT LENGTH @ POINT A:	3.5'
ELEVATION @ POINT B:	169.90'
SEGMENT LENGTH @ POINT B:	32'
ELEVATION @ POINT C:	171.00'
SEGMENT LENGTH @ POINT C:	33'
ELEVATION @ POINT D:	171.80'
SEGMENT LENGTH @ POINT D:	32'
ELEVATION @ POINT E:	171.50'
SEGMENT LENGTH @ POINT E:	13'
ELEVATION @ POINT F:	171.50'
SEGMENT LENGTH @ POINT F:	12'
ELEVATION @ POINT G:	171.50'
SEGMENT LENGTH @ POINT G:	8.5'
ELEVATION @ POINT H:	170.25'
SEGMENT LENGTH @ POINT H:	20'
ELEVATION @ POINT I:	168.60'
SEGMENT LENGTH @ POINT I:	40.5'
ELEVATION @ POINT J:	159.60'
SEGMENT LENGTH @ POINT J:	20'
ELEVATION @ POINT K:	165.50'
SEGMENT LENGTH @ POINT K:	15.5'
ELEVATION @ POINT L:	169.50'
SEGMENT LENGTH @ POINT L:	12'
TOTAL ELEV. x SEGMENT LENGTHS:	40,940.45'
TOTAL SEGMENT LENGTHS:	242'
AVERAGE NATURAL GRADE (ANG):	169.18'

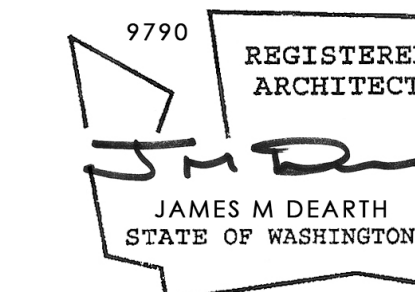


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BUILDINGS ELEVATIONS
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A 3.2
E M E R C E R
P A R C E L 1

ELEVATION + SECTION NOTES:

- CHIMNEY SHALL EXTEND A MIN OF 2'-0" ABV ROOF OR PARAPET WITHIN 10'-0" RADIUS OF CHIMNEY. PROVIDE APPROVED SPARK ARRESTOR @ ALL CHIMNEY CAPS. ALL ARCHITECTURAL FEATURES MUST BE PERMITTED BY FLU + SPARK ARRESTOR MFR APPROVAL.
- OPEN GUARDRAILS SHALL HAVE INTERMEDIATE RAILS OR ORNAMENTAL PATTERN SUCH THAT A 4" SPHERE CANNOT PASS THROUGH.
- STUCCO INSTALLATION SHALL BE IN COMPLIANCE WITH ASTM C 926, ASTM C 1063.

BASEMENT FLOOR AREA CALC.S:

WALL SEGMENT A LENGTH:	20'
WALL SEGMENT A COVERAGE:	100%
WALL SEGMENT B LENGTH:	12'
WALL SEGMENT B COVERAGE:	100%
WALL SEGMENT C LENGTH:	8.5'
WALL SEGMENT C COVERAGE:	100%
WALL SEGMENT D LENGTH:	(8.50 FT % RESULT)
WALL SEGMENT D COVERAGE:	20'
WALL SEGMENT E LENGTH:	75%
WALL SEGMENT E COVERAGE:	(5.00 FT % RESULT)
WALL SEGMENT F LENGTH:	40.5'
WALL SEGMENT F COVERAGE:	50 FT %
WALL SEGMENT G LENGTH:	20'
WALL SEGMENT G COVERAGE:	0%
WALL SEGMENT H LENGTH:	(0.00 FT % RESULT)
WALL SEGMENT H COVERAGE:	12'
WALL SEGMENT I LENGTH:	75%
WALL SEGMENT I COVERAGE:	(9.00 FT % RESULT)
WALL SEGMENT J LENGTH:	12'
WALL SEGMENT J COVERAGE:	100%
WALL SEGMENT K LENGTH:	(12.00 FT % RESULT)
WALL SEGMENT K COVERAGE:	145 FT²
TOTAL SEGMENT LENGTHS:	XX.XX FT %
TOTAL SEGMENT COVERAGE RESULTS:	
GROSS BASEMENT FLOOR AREA	952 FT²
GROSS BASEMENT FLOOR % TO BE EXCLUDED:	75%
GROSS BASEMENT FLOOR AREA TO BE EXCLUDED:	714.00 FT²

AVERAGE BUILDING ELEVATION CALC.S:

ELEVATION @ POINT A:	169.50'
SEGMENT LENGTH @ POINT A:	3.5'
ELEVATION @ POINT B:	169.90'
SEGMENT LENGTH @ POINT B:	32'
ELEVATION @ POINT C:	171.00'
SEGMENT LENGTH @ POINT C:	33'
ELEVATION @ POINT D:	171.80'
SEGMENT LENGTH @ POINT D:	32'
ELEVATION @ POINT E:	171.50'
SEGMENT LENGTH @ POINT E:	13'
ELEVATION @ POINT F:	171.50'
SEGMENT LENGTH @ POINT F:	12'
ELEVATION @ POINT G:	171.50'
SEGMENT LENGTH @ POINT G:	8.5'
ELEVATION @ POINT H:	170.25'
SEGMENT LENGTH @ POINT H:	20'
ELEVATION @ POINT I:	168.60'
SEGMENT LENGTH @ POINT I:	40.5'
ELEVATION @ POINT J:	159.60'
SEGMENT LENGTH @ POINT J:	20'
ELEVATION @ POINT K:	165.50'
SEGMENT LENGTH @ POINT K:	15.5'
ELEVATION @ POINT L:	169.50'
SEGMENT LENGTH @ POINT L:	12'
TOTAL ELEVATION x SEGMENT LENGTHS:	40,940.48'
TOTAL SEGMENT LENGTHS:	242'
AVERAGE NATURAL GRADE (ANG):	169.18'

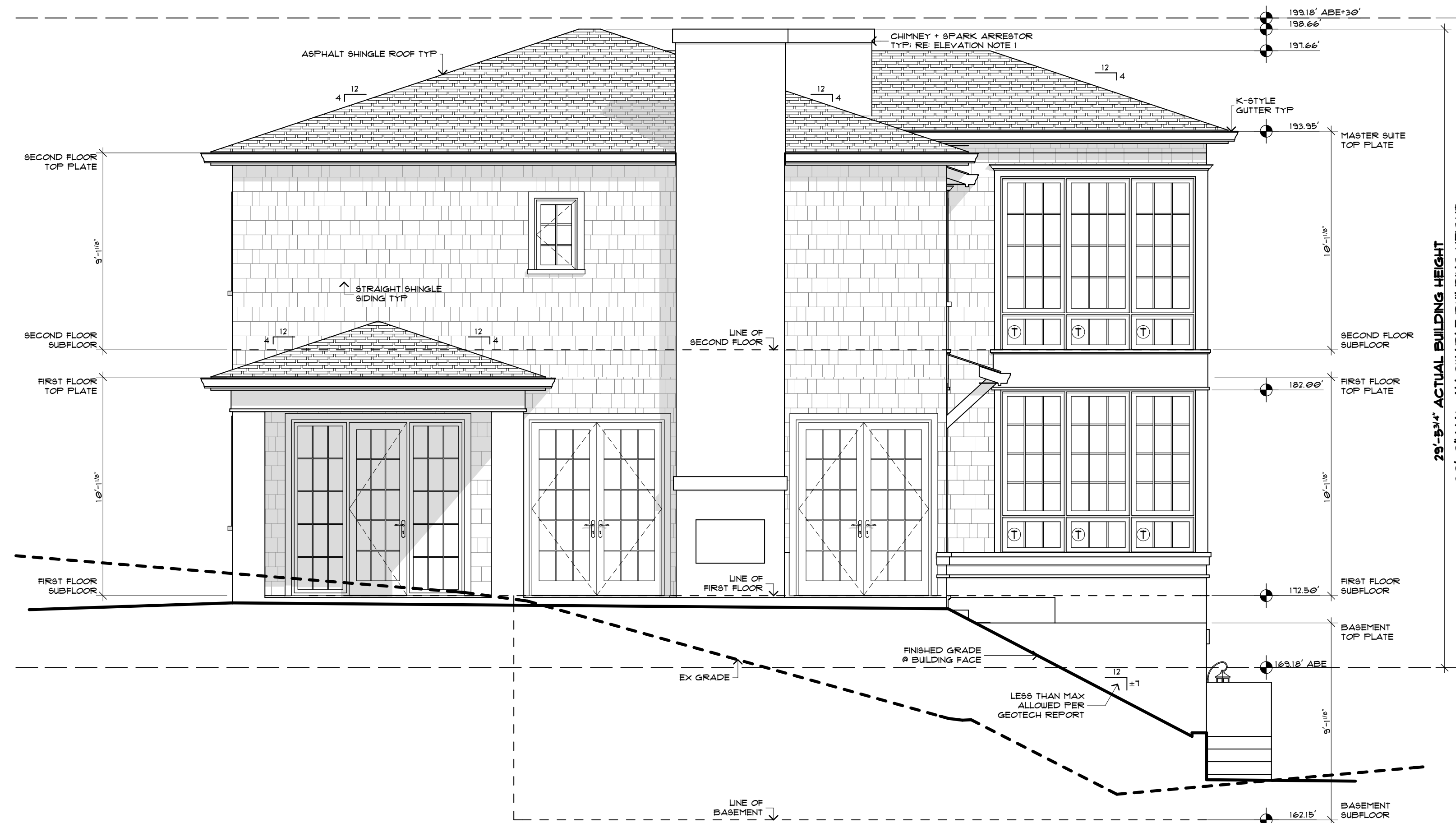


WEST ELEVATION

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



3



SOUTH ELEVATION

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



4



SECTION E-E

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



SECTION A - A

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

ELEVATION + SECTION NOTES:

1. CHIMNEY SHALL EXTEND A MIN OF 2'-0" ABV ROOF OR PARAPET WITHIN 10'-0" RADIUS OF CHIMNEY. PROVIDE APPROVED SPARK ARRESTOR @ ALL CHIMNEY CAPS. ALL ARCHITECTURAL FEATURES MUST BE PERMITTED BY FLU + SPARK ARRESTOR MFR APPROVAL.
2. OPEN GUARDRAILS SHALL HAVE INTERMEDIATE RAILS OR ORNAMENTAL PATTERN SUCH THAT A 4" SPHERE CANNOT PASS THROUGH.
3. STUCCO INSTALLATION SHALL BE IN COMPLIANCE WITH ASTM C 926, ASTM C 1063.

WSEC 2015 NOTES:

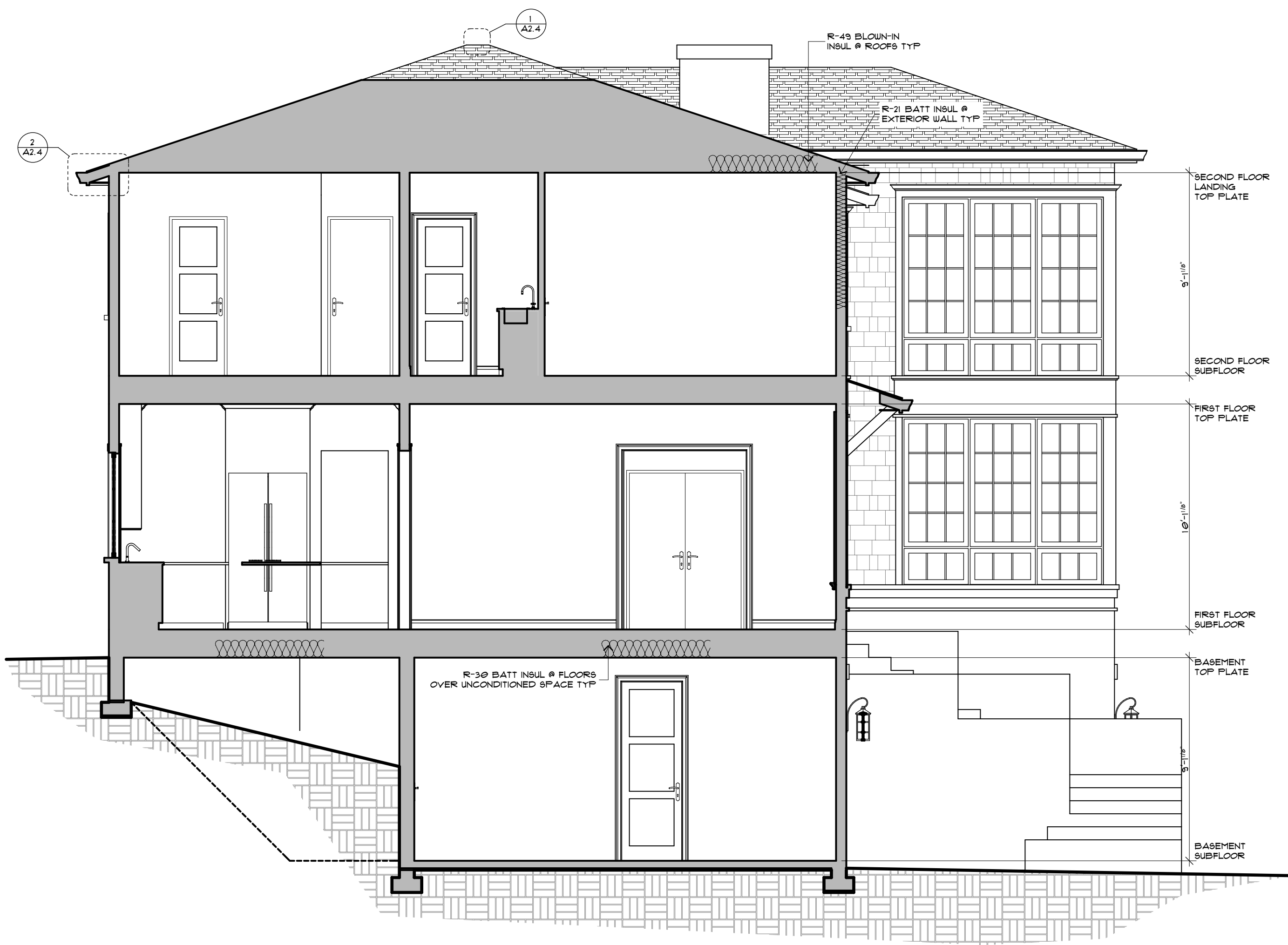
1. THIS PROJECT IS ELIGIBLE AND COMPLIANT W/ WSEC 2015 PRESCRIPTIVE METHOD.
2. INSULATION VALUES SHALL BE AS FOLLOWS:
 - A. ALL VERTICAL GLAZING SHALL BE 0.30 U-FACTOR MAX.
 - B. ALL OVERHEAD GLAZING SHALL BE 0.50 U-FACTOR MAX.
 - C. ALL EXTERIOR DOORS (INCLUDING DOORS FROM CONDITIONED SPACE TO UNCONDITIONED SPACE) SHALL BE 0.20 U-FACTOR MIN.
 - D. ALL CEILINGS OVER CONDITIONED SPACE SHALL RECEIVE R-49 BLOWN-IN INSULATION MIN.
 - E. ALL VAULTED CEILINGS SHALL RECEIVE R-38 BATT INSULATION MIN.
 - F. ALL ABOVE-GRADE EXTERIOR WALLS SHALL RECEIVE R-21 BATT INSULATION MIN.
 - G. ALL BELOW-GRADE EXTERIOR WALLS SHALL RECEIVE R-21 BATT INSULATION MIN @ INTERIOR FRAMED WALL.
 - H. ALL FLOORS OVER UNCONDITIONED SPACE SHALL RECEIVE R-30 BATT INSULATION MIN.
 - I. ALL SLAB-ON-GRADE WITHIN CONDITIONED SPACE SHALL RECEIVE R-10 RIGID INSULATION WITHIN 24" OF SLAB PERIMETER.
 - J. ALL HEADERS @ EXTERIOR WALLS SHALL RECEIVE R-10 RIGID INSULATION @ INTERIOR SIDE OF WALL.
3. RE: STRUCTURAL DRAWINGS FOR ALL FRAMING COMPLIANCE REQUIREMENTS.
4. PROVIDE 100 CFM INTERMITTENTLY OPERATING POINT-OF-USE VENTILATION @ KITCHEN.
5. PROVIDE 50 CFM INTERMITTENTLY OPERATING POINT-OF-USE VENTILATION @ ALL BATHS + LAUNDRY.
6. NATURAL GAS, PROPANE OR OIL WATER HEATER SHALL HAVE A MINIMUM EF OF 0.91 (WSEC 406.2, CREDIT 5c).
7. AT CRAWLSPACES THE MIN NET AREA OF VENTILATION OPENINGS SHALL NOT BE LESS THAN 1 FT² FOR EACH 300 FT² OF UNDER-FLOOR AREA. ONE VENTILATION OPENING SHALL BE WITHIN 3'-0" OF EACH CORNER OF THE BUILDING AT CRAWLSPACE, EXCEPT ONE SIDE OF THE BUILDING SHALL BE PERMITTED TO HAVE NO VENTILATION OPENINGS, OR CRAWLSPACE SHALL BE MECHANICALLY VENTED.
8. THE BUILDING THERMAL ENVELOPE SHALL BE CONSTRUCTED TO LIMIT AIR LEAKAGE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS R402.4.1 THROUGH R402.4.4. WHERE REQUIRED BY THE CODE OFFICIAL, TESTING SHALL BE CONDUCTED BY AN APPROVED THIRD PARTY AND A WRITTEN REPORT OF THE TESTING RESULTS SHALL BE SIGNED BY THE TESTING PARTY AND PROVIDED TO THE CODE OFFICIAL.
9. AT LEAST ONE THERMOSTAT PER DWELLING UNIT SHALL BE CAPABLE OF CONTROLLING THE HEATING AND COOLING SYSTEM ON A DAILY SCHEDULE.


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9790

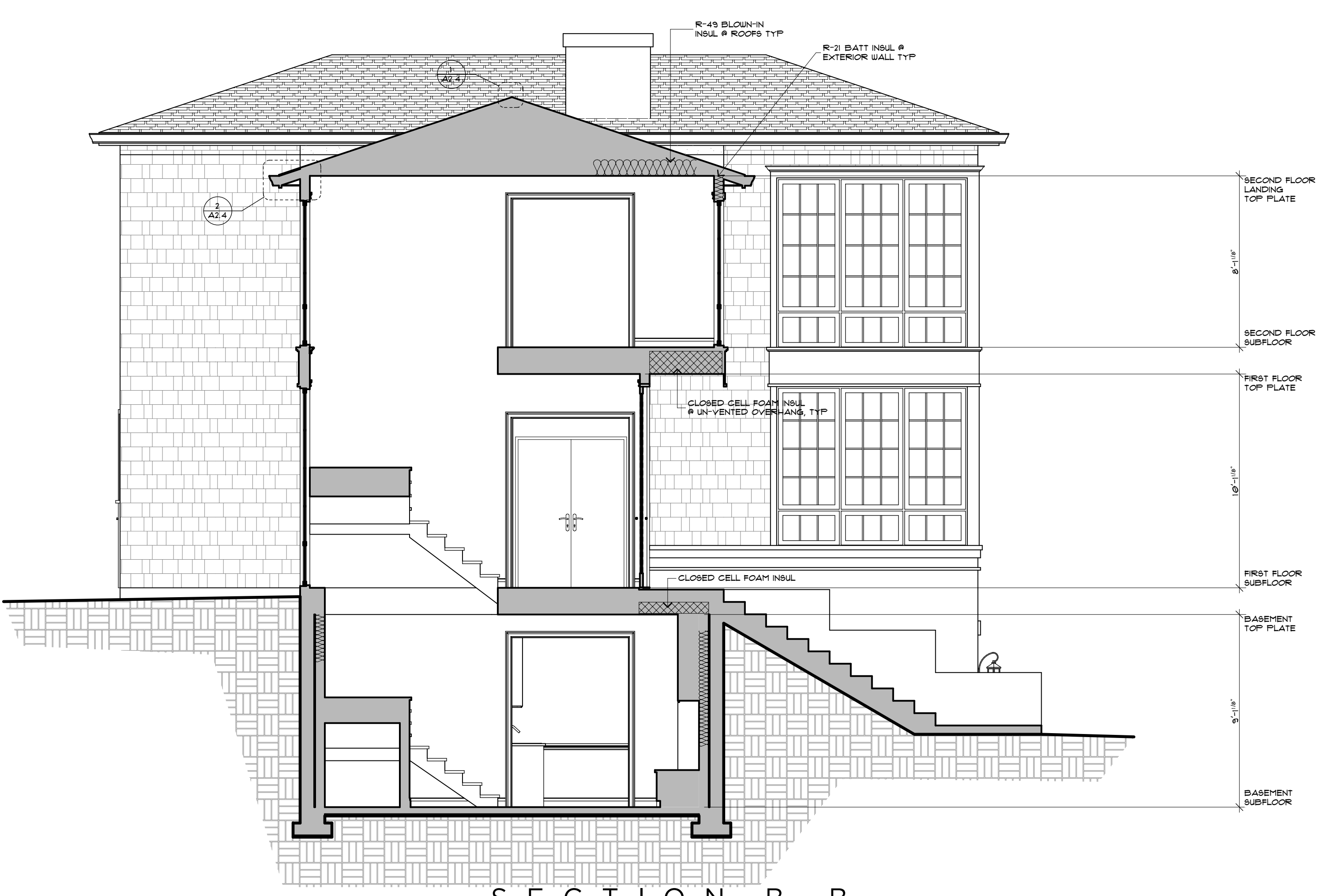
 JAMES M DEARTH
 STATE OF WASHINGTON

8375 E. MERCER WAY
EMERCEL 1
 MERCER ISLAND, WA



SECTION C - C

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



SECTION B - B

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

BUILDING A - C
SECTION C - C
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DOOR SCHEDULE:

DOOR NO.	WIDTH	HEIGHT	TYPE	MATERIAL	FINISH	REMARKS
001A	12'-0"	8'-0"	FRENCH SLIDER	ALUMINUM / GLASS		4 PANEL, DIVIDED LIGHT
002A	2'-8"	7'-0"	PANEL	WOOD		
002B	8'-0"	7'-0"	SLIDER	WOOD		TRIPLE BY-PASS CLOSET
003A	2'-8"	8'-0"	PANEL	WOOD		PRIVACY LOCK
003B	5'-0"	7'-0"	SLIDER	WOOD		DOUBLE BY-PASS CLOSET
004A	2'-8"	8'-0"	PANEL	WOOD		AUTO-CLOSER, 20 MIN. RATED
004B	2'-8"	8'-0"	PANEL	WOOD		AUTO-CLOSER, 20 MIN. RATED
005A	8'-0"	8'-0"	OVERHEAD	WOOD		GARAGE DOOR
005B	8'-0"	8'-0"	OVERHEAD	WOOD		GARAGE DOOR
005C	8'-0"	8'-0"	OVERHEAD	WOOD		GARAGE DOOR
101A	6'-0"	9'-6"	FRENCH	ALUMINUM / GLASS		PAIR, DIVIDED LIGHT, W/3'-0" SIDELIGHTS
103A	2'-8"	8'-0"	PANEL	WOOD		PRIVACY LOCK
104A	6'-0"	8'-0"	FRENCH	ALUMINUM / GLASS		PAIR, DIVIDED LIGHT
104B	6'-0"	8'-0"	FRENCH	ALUMINUM / GLASS		PAIR, DIVIDED LIGHT
105A	2'-8"	8'-0"	FRENCH	ALUMINUM / GLASS		DIVIDED LIGHT, W/ 2'-8" SIDELIGHTS
109A	5'-0"	7'-0"	PANEL	WOOD		PAIR, PRIVACY LOCK
109B	9'-0"	8'-0"	FRENCH SLIDER	ALUMINUM / GLASS		3-PANEL, DIVIDED LIGHT
110A	2'-4"	8'-0"	PANEL	WOOD		
202A	5'-0"	8'-0"	PANEL	WOOD		PAIR, PRIVACY LOCK
203A	2'-8"	8'-0"	PANEL	WOOD		
203B	2'-4"	8'-0"	PANEL	WOOD		
204A	2'-8"	8'-0"	PANEL	WOOD		
205A	2'-8"	7'-0"	PANEL	WOOD		PRIVACY LOCK
205B	2'-4"	7'-0"	PANEL	WOOD		
206A	2'-4"	7'-0"	PANEL	WOOD		
207A	2'-8"	7'-0"	PANEL	WOOD		PRIVACY LOCK
207B	2'-4"	7'-0"	PANEL	WOOD		
208A	2'-8"	7'-0"	PANEL	WOOD		PRIVACY LOCK
208B	2'-4"	7'-0"	PANEL	WOOD		
209A	2'-4"	7'-0"	PANEL	WOOD		
209B	2'-4"	7'-0"	PANEL	WOOD		PRIVACY LOCK
210A	5'-0"	7'-0"	SLIDER	WOOD		
211A	2'-8"	8'-0"	PANEL	WOOD		
211B	2'-8"	8'-0"	PANEL	WOOD		

WINDOW SCHEDULE:

WINDOW NO.	WIDTH	HEIGHT	HEADER	TYPE	MATERIAL	FINISH	REMARKS
002A	6'-0"	5'-0"	8'-0"	DOUBLE CASEMENT	ALUMINUM		DIVIDED LIGHT, SAFETY GLAZING, EGRESS
101A	6'-0"	9'-6"	9'-6"	FIXED	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING
101B	6'-0"	9'-6"	9'-6"	FIXED	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING
103B	2'-0"	4'-0"	8'-0"	CASEMENT	ALUMINUM		DIVIDED LIGHT
104A	6'-0"	7'-6"	9'-6"	FIXED	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING @ LOWER AWNING
104B	9'-0"	7'-6"	9'-6"	FIXED	ALUMINUM		TRIPLE, DIVIDED LIGHT, SAFETY GLAZING @ LOWER AWNING
104C	6'-0"	7'-6"	9'-6"	FIXED	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING @ LOWER AWNING
105A	9'-0"	5'-0"	8'-0"	CASEMENT	ALUMINUM		TRIPLE, DIVIDED LIGHT
107A	9'-0"	7'-6"	9'-6"	FIXED	ALUMINUM		TRIPLE, DIVIDED LIGHT, SAFETY GLAZING @ LOWER AWNING
107B	6'-0"	7'-6"	9'-6"	FIXED	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING @ LOWER AWNING
107C	6'-0"	7'-6"	9'-6"	FIXED	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING @ LOWER AWNING
109A	4'-0"	4'-0"	8'-0"	CASEMENT	ALUMINUM		DOUBLE, DIVIDED LIGHT
110A	2'-0"	4'-0"	8'-0"	CASEMENT	ALUMINUM		DIVIDED LIGHT, SAFETY GLAZING
201A	6'-0"	7'-0"	7'-0"	FIXED	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING
201B	6'-0"	7'-0"	7'-0"	FIXED	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING
201C	6'-0"	7'-0"	7'-0"	FIXED	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING
201D	6'-0"	7'-0"	7'-0"	FIXED	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING
202A	9'-0"	8'-0"	8'-0"	FIXED	ALUMINUM		TRIPLE, DIVIDED LIGHT, SAFETY GLAZING @ LOWER AWNING
202B	6'-0"	8'-0"	8'-0"	FIXED	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING @ LOWER AWNING
202C	6'-0"	8'-0"	8'-0"	CASEMENT	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING @ LOWER AWNING, FALL PROTECTION, EGRESS
203A	6'-0"	5'-6"	8'-0"	CASEMENT	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING
203B	2'-0"	4'-0"	8'-0"	CASEMENT	ALUMINUM		DIVIDED LIGHT
205A	8'-0"	5'-0"	7'-0"	CASEMENT	ALUMINUM		TRIPLE, DIVIDED LIGHT, EGRESS
206B	5'-4"	5'-0"	7'-0"	CASEMENT	ALUMINUM		DOUBLE, DIVIDED LIGHT
207A	5'-4"	4'-6"	7'-0"	CASEMENT	ALUMINUM		DOUBLE, DIVIDED LIGHT, EGRESS
208A	5'-4"	4'-6"	7'-0"	CASEMENT	ALUMINUM		DOUBLE, DIVIDED LIGHT, EGRESS
209A	2'-0"	3'-6"	7'-0"	CASEMENT	ALUMINUM		DIVIDED LIGHT
210A	5'-4"	5'-0"	7'-0"	CASEMENT	ALUMINUM		DOUBLE, DIVIDED LIGHT

WSEC 2015 NOTES:

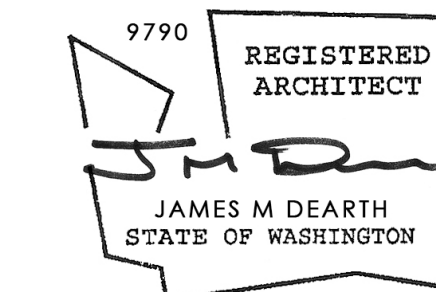
- THIS PROJECT IS ELIGIBLE AND COMPLIANT W/ WSEC 2015 PRESCRIPTIVE METHOD.
- INSULATION VALUES SHALL BE AS FOLLOWS:
 - ALL VERTICAL GLAZING SHALL BE 0.30 U-FACTOR MAX.
 - ALL OVERHEAD GLAZING SHALL BE 0.50 U-FACTOR MAX.
 - ALL EXTERIOR DOORS (INCLUDING DOORS FROM CONDITIONED SPACE TO UNCONDITIONED SPACE) SHALL BE 0.20 U-FACTOR MIN.
 - ALL CEILINGS OVER CONDITIONED SPACE SHALL RECEIVE R-49 BLOWN-IN INSULATION MIN.
 - ALL VAULTED CEILINGS SHALL RECEIVE R-38 BATT INSULATION MIN.
 - ALL ABOVE-GRADE EXTERIOR WALLS SHALL RECEIVE R-21 BATT INSULATION MIN.
 - ALL BELOW-GRADE EXTERIOR WALLS SHALL RECEIVE R-21 BATT INSULATION MIN @ INTERIOR FRAMED WALL.
 - ALL FLOORS OVER UNCONDITIONED SPACE SHALL RECEIVE R-30 BATT INSULATION MIN.
 - ALL SLAB-ON-GRADE WITHIN CONDITIONED SPACE SHALL RECEIVE R-10 RIGID INSULATION WITHIN 24" OF SLAB PERIMETER.
 - ALL HEADERS @ EXTERIOR WALLS SHALL RECEIVE R-10 RIGID INSULATION @ INTERIOR SIDE OF WALL.
- RE: STRUCTURAL DRAWINGS FOR ALL FRAMING COMPLIANCE REQUIREMENTS.
 - PROVIDE 100 CFM INTERMITTENTLY OPERATING POINT-OF-USE VENTILATION @ KITCHEN.
 - PROVIDE 50 CFM INTERMITTENTLY OPERATING POINT-OF-USE VENTILATION @ ALL BATHS + LAUNDRY.
 - NATURAL GAS, PROPANE OR OIL WATER HEATER SHALL HAVE A MINIMUM EF OF 0.91 (WSEC 406.2, CREDIT 5c).
 - AT CRAWLSPACES THE MIN NET AREA OF VENTILATION OPENINGS SHALL NOT BE LESS THAN 1 FT² FOR EACH 300 FT² OF UNDER-FLOOR AREA. ONE VENTILATION OPENING SHALL BE WITHIN 3'-0" OF EACH CORNER OF THE BUILDING AT CRAWLSPACE, EXCEPT ONE SIDE OF THE BUILDING SHALL BE PERMITTED TO HAVE NO VENTILATION OPENINGS, OR CRAWLSPACE SHALL BE MECHANICALLY VENTED.
 - THE BUILDING THERMAL ENVELOPE SHALL BE CONSTRUCTED TO LIMIT AIR LEAKAGE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS R402.4.1 THROUGH R402.4.4. WHERE REQUIRED BY THE CODE OFFICIAL, TESTING REPORT OF THE TESTING RESULTS SHALL BE SIGNED BY THE TESTING PARTY AND PROVIDED TO THE CODE OFFICIAL.
 - AT LEAST ONE THERMOSTAT PER DWELLING UNIT SHALL BE CAPABLE OF CONTROLLING THE HEATING AND COOLING SYSTEM ON A DAILY SCHEDULE.



RIPPLE
DESIGN STUDIO

206.913.2333

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SEATTLE, WA 98103



8375 E. MERCER WAY
EMERCEL
 PARCEL 1
 MERCER ISLAND, WA

DOOR + WINDOW SCHEDULE
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RELEASE
BUILDING PERMIT
10 OCT 2017

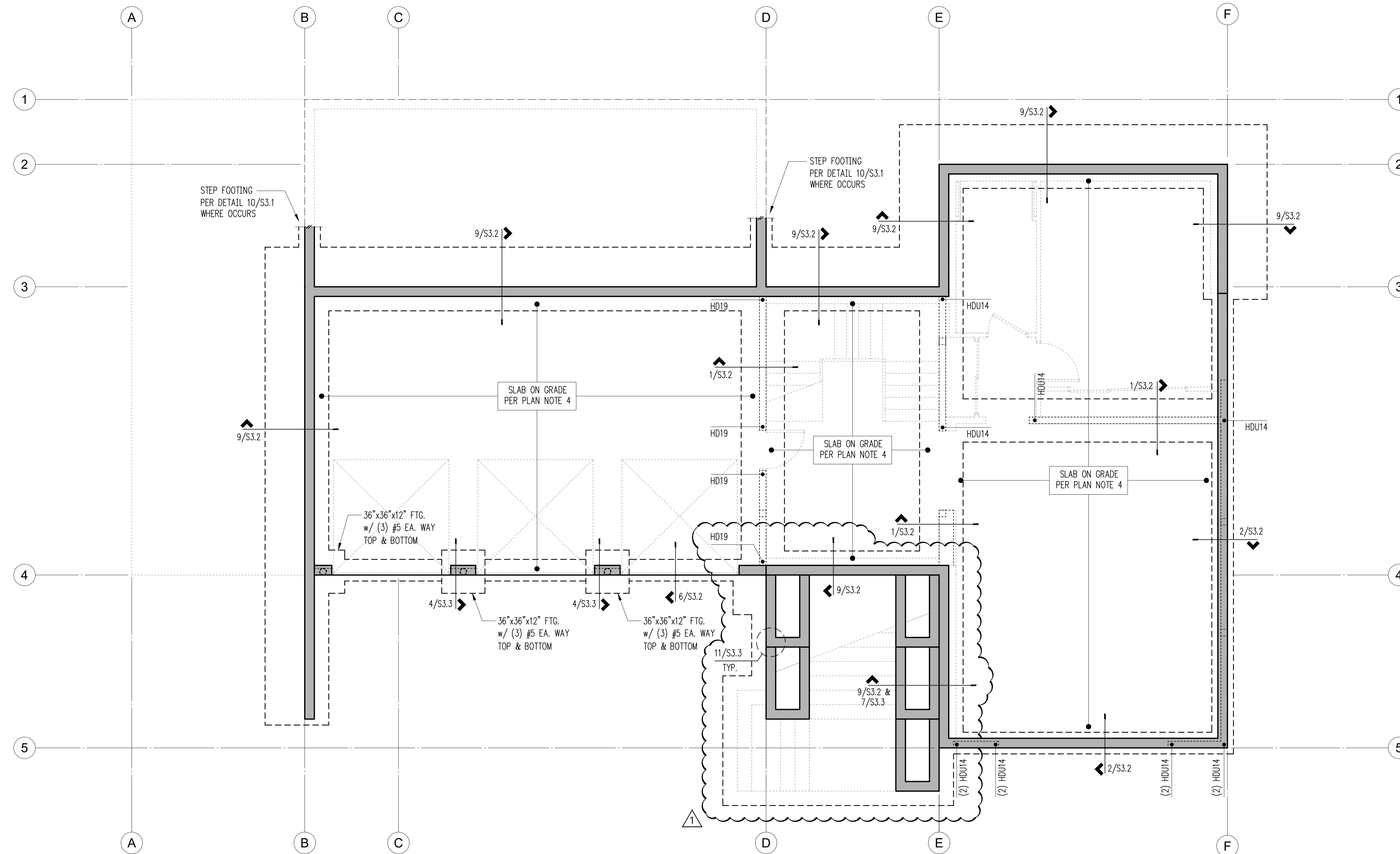
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EMERCEL
PARCEL 1
AUGUST 2017



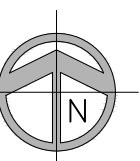
East Mercer - Parcel 1

8375 E Mercer Way
Mercer Island, WA, 98040



Foundation Plan

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

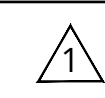


Plan Notes

- REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS (S1.1).
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS UNLESS SPECIFICALLY NOTED ON STRUCTURAL PLANS.
- ALL FOOTINGS SHALL BEAR ON FIRM, NATIVE SOIL.
- 4" CONCRETE SLAB ON GRADE REINFORCED WITH #3 @ 12"oc EACH WAY, CENTERED IN SLAB. PROVIDE A BASE OF 4" COMPACTED, CLEAN 3/4" MINUS GRAVEL COVERED WITH 4 MIL. VAPOR BARRIER. PROVIDE JOINTS PER 2/S3.1.

Plan Notes (Con't)

- PROVIDE DRAINAGE BEHIND ALL FOUNDATION WALLS.
- REINFORCE FOOTING AND WALL CORNERS AND INTERSECTIONS PER 6/S3.1.
- "HDU_" REFERS TO HOLDDOWNS PER 8/S3.1
- REFER 5/S3.2 WHERE PIPES PENETRATE FOUNDATION.
- CONTRACTOR TO STEP FOUNDATION AS REQ'D PER DETAIL 10/S3.1.
- CONTRACTOR TO VERIFY TOP OF FOOTING ELEVATION w/ ARCHITECTURAL PLANS.



NOTE: FOUNDATION DESIGN BASED ON INSTALLATION OF AGGREGATE PIERS IN ACCORDANCE WITH RECOMMENDATIONS OF GEOTECHNICAL ENGINEER. GEOTECHNICAL ENGINEER SHALL INSPECT AND APPROVE ALL SOIL CONDITIONS PRIOR TO FORMING FOUNDATIONS

Legend

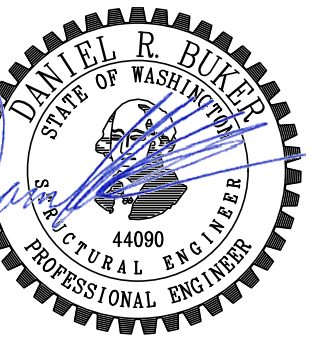
- (N) CONCRETE WALL ABOVE THIS LEVEL
- (N) CONCRETE FOOTING
- (N) SPAN DIRECTION
- EXTENT OF SPAN
- JOIST or BEAM HANGER PROVIDE HU HANGER u.n.o.
- HOLDOWN TYPE

No.	Date	Issue
	7/13/17	Permit
1	9/12/18	Corrections

Sheet Contents
Foundation Plan

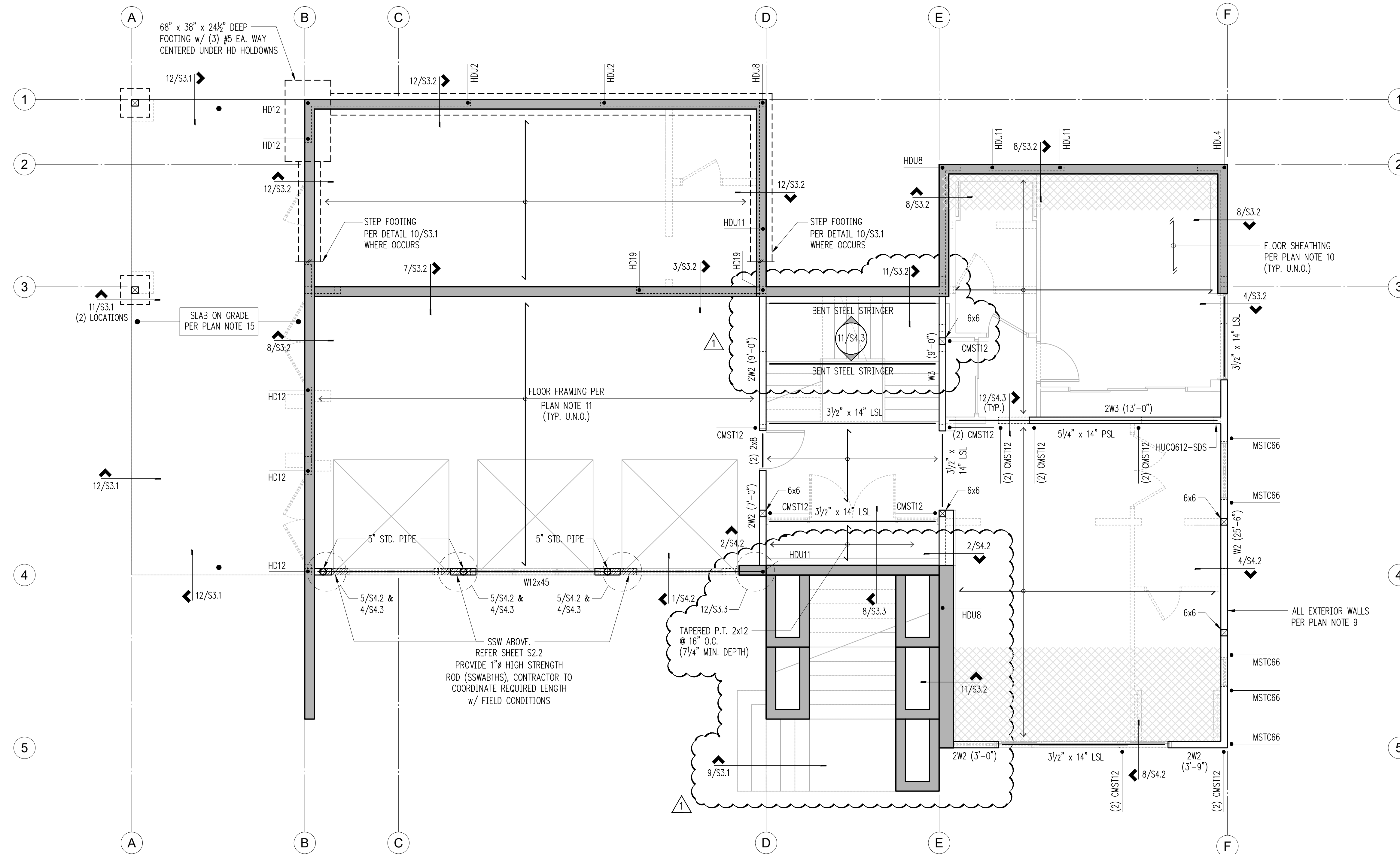
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S2.0



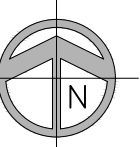
East Mercer - Parcel 1

8375 E Mercer Way
Mercer Island, WA, 98040



First Floor Framing Plan

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



Plan Notes

- REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS (S1.1).
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS UNLESS SPECIFICALLY NOTED ON STRUCTURAL PLANS.
- ALL FOOTINGS SHALL BEAR ON FIRM, NATIVE SOIL.
- PROVIDE DRAINAGE BEHIND ALL FOUNDATION WALLS.
- REINFORCE FOOTING AND WALL CORNERS AND INTERSECTIONS PER 6/S3.1.
- "HDU_" REFERS TO HOLDDOWNS PER 8/S3.1
- REFER 5/S3.2 WHERE PIPES PENETRATE FOUNDATION.

Plan Notes (Cont')

- CONTRACTOR TO VERIFY TOP OF FOOTING ELEVATION w/ ARCHITECTURAL PLANS.
- "W#" REFERS TO SHEARWALL TYPE PER 3/S4.1 & 7/S4.1. ALL OTHER NON-DESIGNATED EXTERIOR WALLS SHALL BE SHEARWALL TYPE W6. WHERE INDICATED, "(X-X)" REFERS TO MINIMUM SHEARWALL LENGTH. COORDINATE ACTUAL LENGTH WITH ARCHITECTURAL.
- FLOOR SHEATHING SHALL BE 3/4" T&G PLYWOOD SHEATHING WITH 48/24 SPAN RATING. NAIL FRAMED PANEL EDGES W/ 8d COMMON (0.131"dia. x 2 1/2") @ 6"oc, FIELD @ 12"oc. (REFER TO 9/S4.1)
- FLOOR FRAMING TO BE 14" TJI/210 @ 16"oc (U.N.O.)
- "MSTC66" & "CS16" REFER TO 60" LONG HOLDDOWNS PER 11/S4.2 & 7/S4.2 RESPECTIVELY.

Plan Notes (Cont')

- PROVIDE TOP PLATE SPLICES PER 1/S4.1
- REFER TO 11/S4.1 AT SHEARWALL INTERSECTIONS.
- 4" CONCRETE SLAB ON GRADE REINFORCED WITH #3 @ 12"oc EACH WAY, CENTERED IN SLAB. PROVIDE A BASE OF 4" COMPACTED, CLEAN 3/4" MINUS GRAVEL COVERED WITH 4 MIL. VAPOR BARRIER. PROVIDE JOINTS PER 2/S3.1.
- "SSW#" REFERS TO SIMPSON STRONGWALL. COORDINATE WALL HEIGHT WITH ARCHITECTURAL PLANS. REFER TO SSW1, SSW2 & 5/S4.2 FOR DETAILS. CONTRACTOR TO VERIFY REQ'D HEIGHT PRIOR TO PURCHASE.
- "D.S." REFERS TO DRAG STRUT. NAIL FLOOR SHEATHING TO DRAG STRUT WITH (2) ROWS OF 8d COMMON (0.131"dia. x 2 1/2") @ 4"oc. (REFER TO 5/S4.1)

Legend

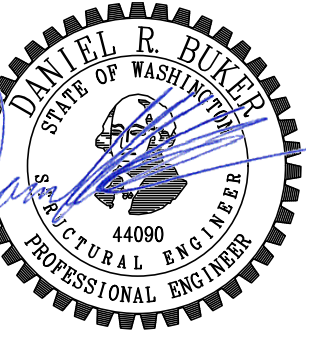
- STRUCTURAL WOOD WALL or POST BELOW THIS LEVEL
- STRUCTURAL WOOD WALL or POST ABOVE THIS LEVEL
- CONCRETE WALL ABOVE THIS LEVEL
- CONCRETE FOOTING AT THIS LEVEL
- SPAN DIRECTION
- EXTENT OF SPAN
- JOIST or BEAM HANGER
- HOLDOWN TYPE
- BLOCK DIAPHR. 2X'S LAID FLAT @ ALL PANEL EDGES. 8D @ 4"OC @ ALL PANEL EDGES & 12"OC IN FIELD. (REFER TO 9/S4.1)

No.	Date	Issue
	7/13/17	Permit
1	3/12/18	Corrections

Sheet Contents
First Floor Framing Plan

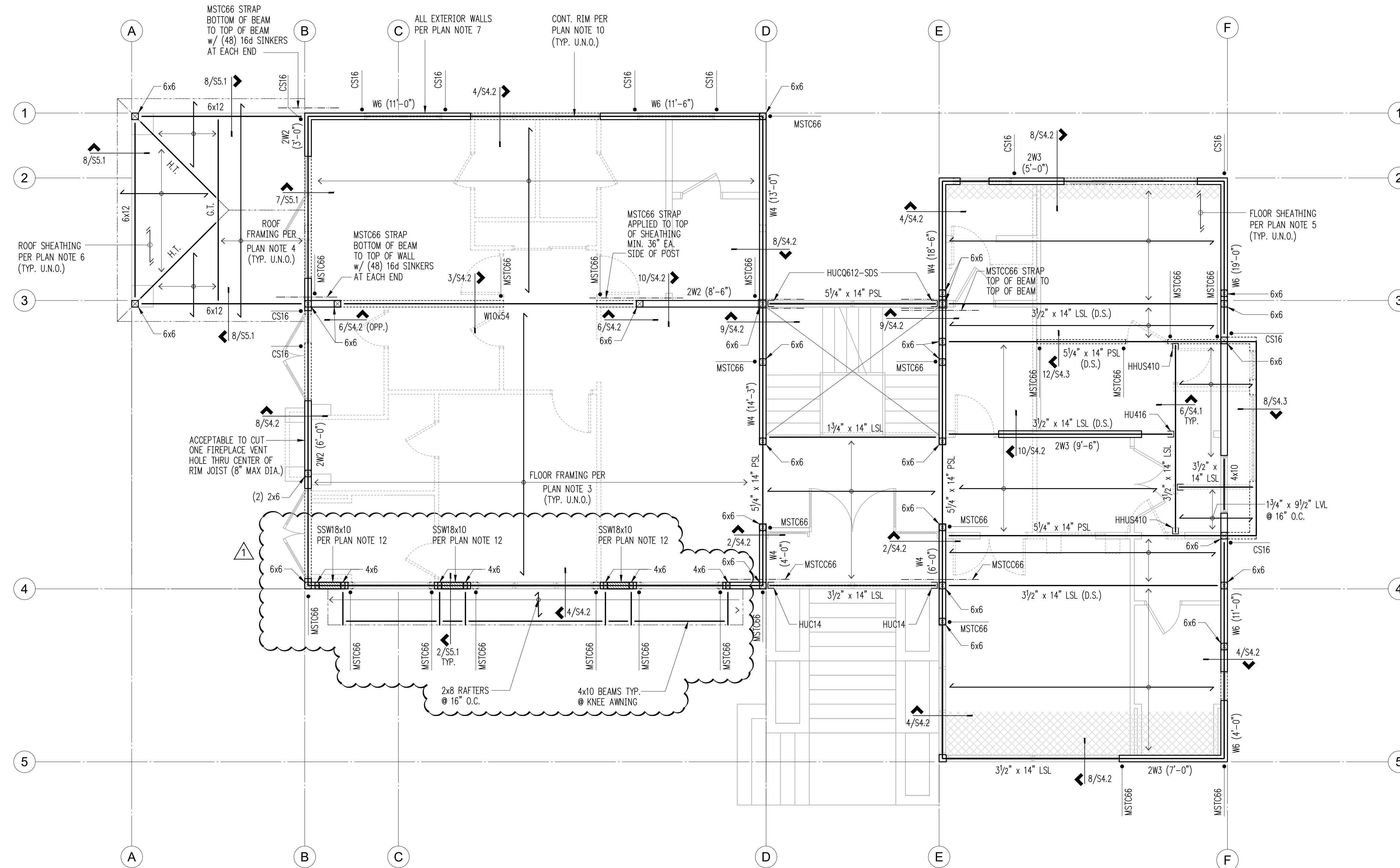
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S2.1



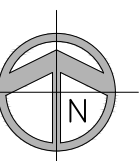
East Mercer - Parcel 1

8375 E Mercer Way
Mercer Island, WA, 98040



Second Floor Framing Plan

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



Plan Notes

- REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS (S1.1).
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS UNLESS SPECIFICALLY NOTED ON STRUCTURAL PLANS.
- FLOOR FRAMING TO BE 14" TJI/210 @ 16"oc (U.N.O.)
- ROOF FRAMING (where occurs) SHALL BE PRE-MANUFACTURED ROOF TRUSSES @ 24"oc. (Truss design by others).
- FLOOR SHEATHING SHALL BE 3/4" T&G PLYWOOD SHEATHING WITH 48/24 SPAN RATING. NAIL FRAMED PANEL EDGES W/ 8d COMMON (0.131"dia. x 2 1/2") @ 6"oc, FIELD @ 12"oc. (REFER TO 9/S4.1)

Plan Notes (Con't)

- ROOF SHEATHING SHALL BE 5/8" CDX PLYWOOD SHEATHING WITH 40/20 SPAN RATING. NAIL FRAMED PANEL EDGES W/ 8d COMMON (0.131"dia. x 2 1/2") @ 6"oc, FIELD @ 12"oc. (REFER TO 9/S4.1)
- "W#" REFERS TO SHEARWALL TYPE PER 3/S4.1 & 7/S4.1. ALL OTHER NON-DESIGNATED EXTERIOR WALLS SHALL BE SHEARWALL TYPE W6. WHERE INDICATED, "(X-X)" REFERS TO MINIMUM SHEARWALL LENGTH. COORDINATE ACTUAL LENGTH WITH ARCHITECTURAL.
- "MSTC66" & "CS16" REFER TO HOLDDOWNS PER 11/S4.2 & 7/S4.2 RESPECTIVELY.
- PROVIDE TOP PLATE SPLICES PER 1/S4.1

Plan Notes (Con't)

- AT EXTERIOR WALLS, PROVIDE CONTINUOUS FLUSH FRAMED 3/2" X 14" LSL STRUCTURAL RIM JOIST, UNLESS NOTED OTHERWISE. RIM JOISTS OVER OPENINGS SHALL BE CONTINUOUS W/ NO SPLICES. REFER TO 4/S4.2 & 8/S4.2.
- REFER TO 11/S4.1 AT SHEARWALL INTERSECTIONS.
- "SSW#" REFERS TO SIMPSON STRONGWALL. COORDINATE WALL HEIGHT WITH ARCHITECTURAL PLANS. REFER TO SSW1, SSW2 & 5/S4.2 FOR DETAILS. CONTRACTOR TO VERIFY REQ'D HEIGHT PRIOR TO PURCHASE.
- "D.S." REFERS TO DRAG STRUT. NAIL FLOOR SHEATHING TO DRAG STRUT WITH (2) ROWS OF 8d COMMON (0.131"dia. x 2 1/2") @ 4"oc. (REFER TO 5/S4.1)

Legend

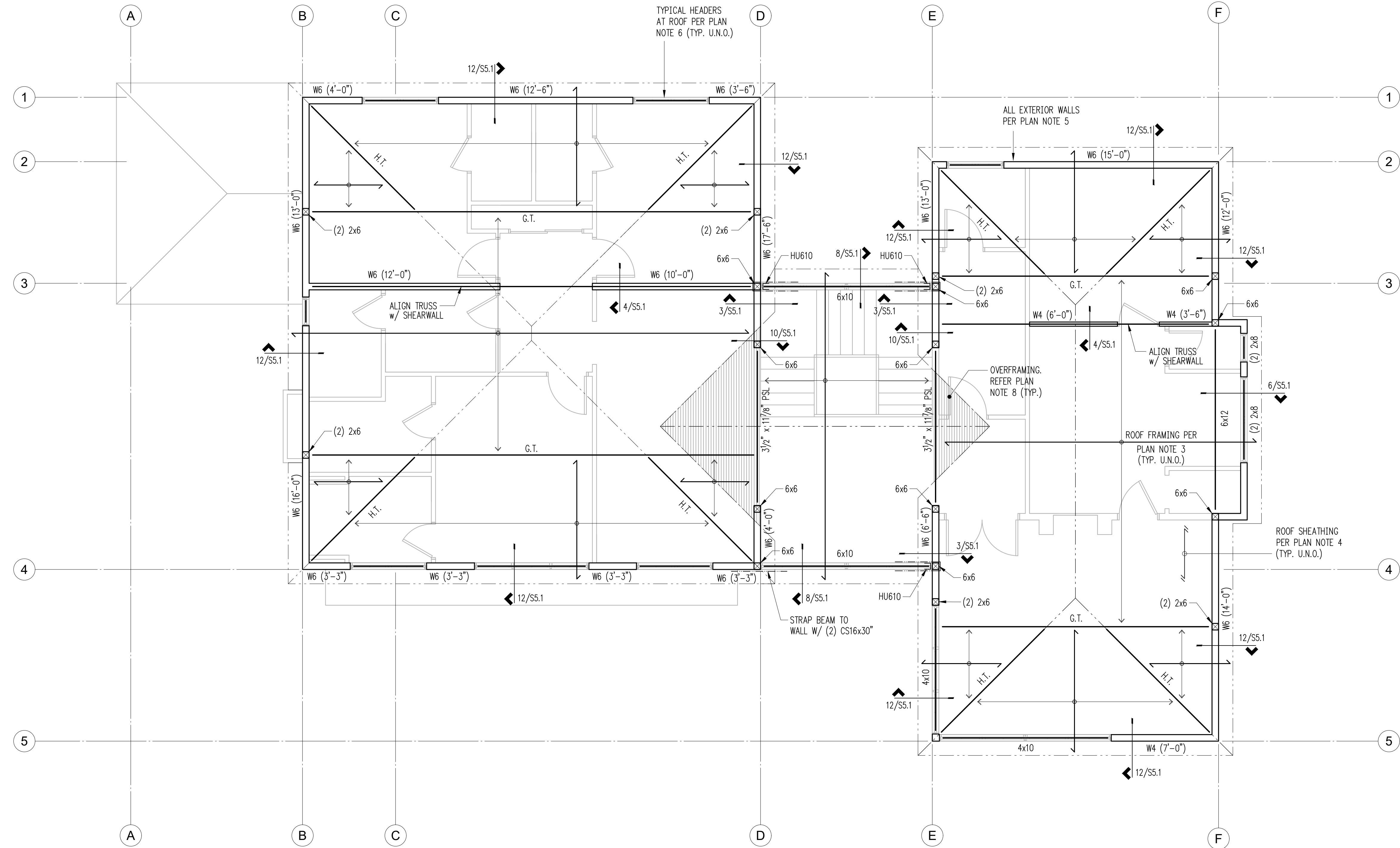
- | | | | | | |
|--|---|--|----------------|--|---|
| | STRUCTURAL WOOD WALL or POST BELOW THIS LEVEL | | SPAN DIRECTION | | BLOCK DIAPHR. 2X'S LAID FLAT @ ALL PANEL EDGES. 8D @ 4"OC @ ALL PANEL EDGES & 12"OC IN FIELD. (REFER TO 9/S4.1) |
| | STRUCTURAL WOOD WALL or POST ABOVE THIS LEVEL | | EXTENT OF SPAN | | JOIST or BEAM HANGER |
| | HOLDOWN TYPE | | G.I.T. | | H.I.T. |

No.	Date	Issue
	7/13/17	Permit
1	3/12/18	Corrections

Sheet Contents
Second Floor Framing Plan

Sheet No.

S2.2

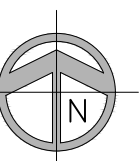


East Mercer - Parcel 1

8375 E Mercer Way
Mercer Island, WA, 98040

Roof Framing Plan

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



Plan Notes

- REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS (S1.1).
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS UNLESS SPECIFICALLY NOTED ON STRUCTURAL PLANS.
- ROOF FRAMING SHALL BE PRE-MANUFACTURED ROOF TRUSSES @ 24"oc. (TRUSS DESIGN BY OTHERS).
- ROOF SHEATHING SHALL BE 5/8" CDX PLYWOOD SHEATHING WITH 40/20 SPAN RATING. NAIL FRAMED PANEL EDGES W/ 8d COMMON (0.131"dia. x 2 1/2") @ 6"oc, FIELD @ 12"oc. (REFER TO 9/S4.1)

Plan Notes (Con't)

- "W#" REFERS TO SHEARWALL TYPE PER 3/S4.1 & 7/S4.1. ALL OTHER NON-DESIGNATED EXTERIOR WALLS SHALL BE SHEARWALL TYPE W6. WHERE INDICATED, "(X-X)" REFERS TO MINIMUM SHEARWALL LENGTH. COORDINATE ACTUAL LENGTH WITH ARCHITECTURAL.
- ALL HEADERS AT ROOF NOT NOTED OTHERWISE ON PLAN SHALL BE (2) 2X8. (REFER TO DETAIL 2/S4.1)
- PROVIDE TOP PLATE SPLICES PER 1/S4.1
- WHERE OVERFRAMING IS INDICATED, OVERFRAME WITH 2x6 @ 24" O.C. w/ 4'-0" MAX. SPAN. (REFER TO DETAIL 11/S5.1)

Legend

- STRUCTURAL WOOD WALL or POST BELOW THIS LEVEL
- SPAN DIRECTION
- EXTENT OF SPAN
- JOIST or BEAM HANGER
- G.T. GIRDER TRUSS
- H.T. HIP TRUSS

No.	Date	Issue
	7/13/17	Permit
1	3/12/18	Corrections

Sheet Contents
Roof Framing Plan

Sheet No.

S2.3

REINFORCING SPLICE AND DEVELOPMENT LENGTH SCHEDULE

FOR $F_c = 2500$ psi, GRADE 60 REINFORCING

I

MINIMUM STRAIGHT DEVELOPMENT LENGTH (d)

BAR SIZE	TOP BARS	OTHER BARS
#3	23"	18"
#4	31"	24"
#5	40"	30"
#6	47"	36"
#7	68"	53"
#8	78"	60"
#9	88"	68"
#10	99"	77"
#11	110"	85"

II

MINIMUM LAP SPLICE LENGTHS (ls)

BAR SIZE	TOP BARS	OTHER BARS
#3	31"	23"
#4	41"	31"
#5	51"	40"
#6	62"	47"
#7	89"	68"
#8	102"	78"
#9	114"	88"
#10	130"	99"
#11	143"	110"

TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF CONCRETE CAST BELOW THEM.

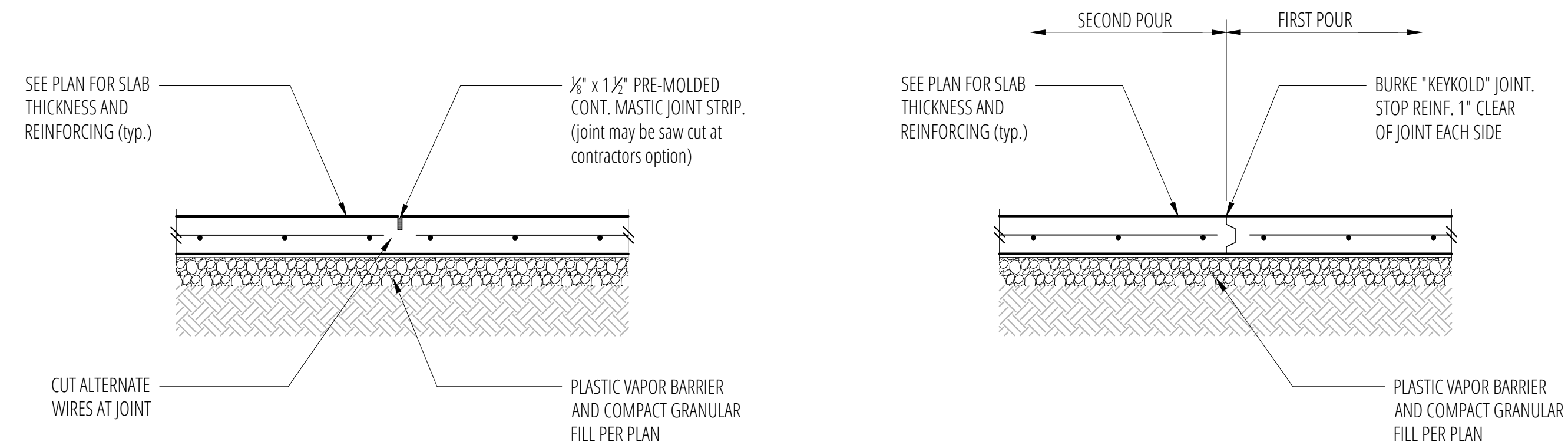
IF CLEAR CONCRETE COVER IS NOT GREATER THAN THE DIAMETER OF THE BAR, OR THE CENTER TO CENTER SPACING IS NOT GREATER THAN 3 BAR DIAMETERS, THEN LENGTHS SHALL BE INCREASED BY 50%

III

MINIMUM EMBEDMENT LENGTHS (ldh) FOR STANDARD END HOOKS

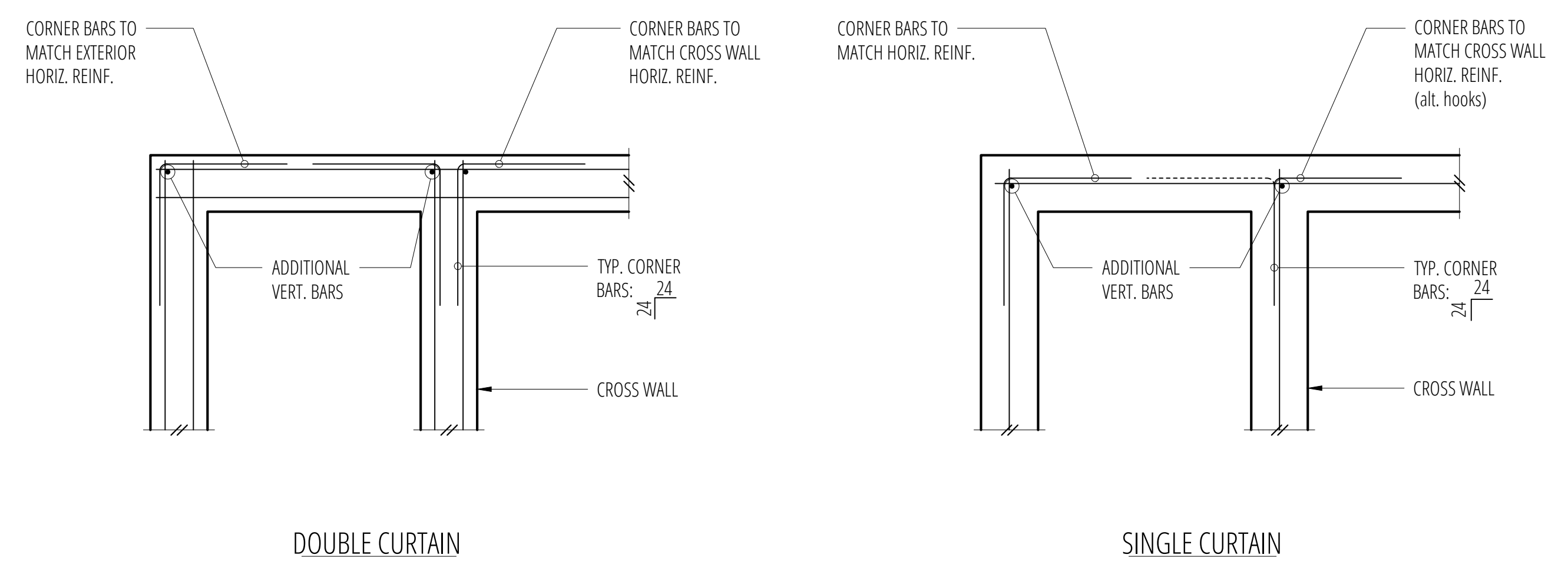
BAR SIZE	LENGTH
#3	7"
#4	9"
#5	11"
#6	13"
#7	14"
#8	17"
#9	19"
#10	21"
#11	24"

- SIDE COVER MUST BE EQUAL TO OR GREATER THAN $2\frac{1}{2}$ "
- END COVER FOR 90° HOOKS MUST BE EQUAL TO OR GREATER THAN 2"

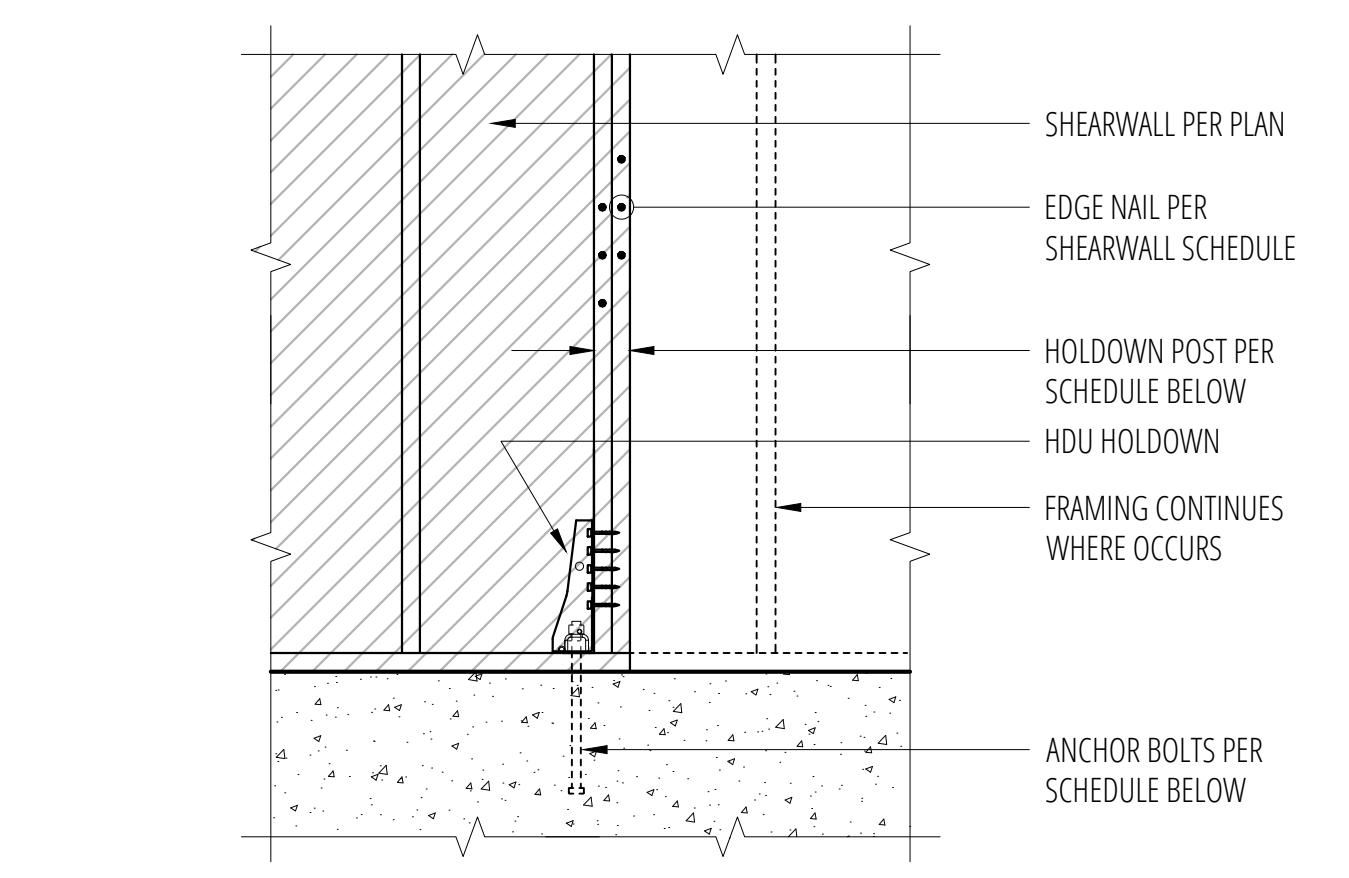


PROVIDE CONTROL OR CONSTRUCTION JOINTS IN SLABS ON GRADE TO BREAK UP SLAB INTO RECTANGULAR AREAS OF 400 SQUARE FEET OR LESS. AREAS TO BE APPROX. SQUARE AND HAVE NO ACUTE ANGLES. JOINT LOCATIONS TO BE APPROVED BY THE ARCHITECT.

2 Typical Slab Joints
SCALE: 3/4"=1'-0"



6 Typical Corner Bars at Concrete Walls and Footings
SCALE: 3/4"=1'-0"



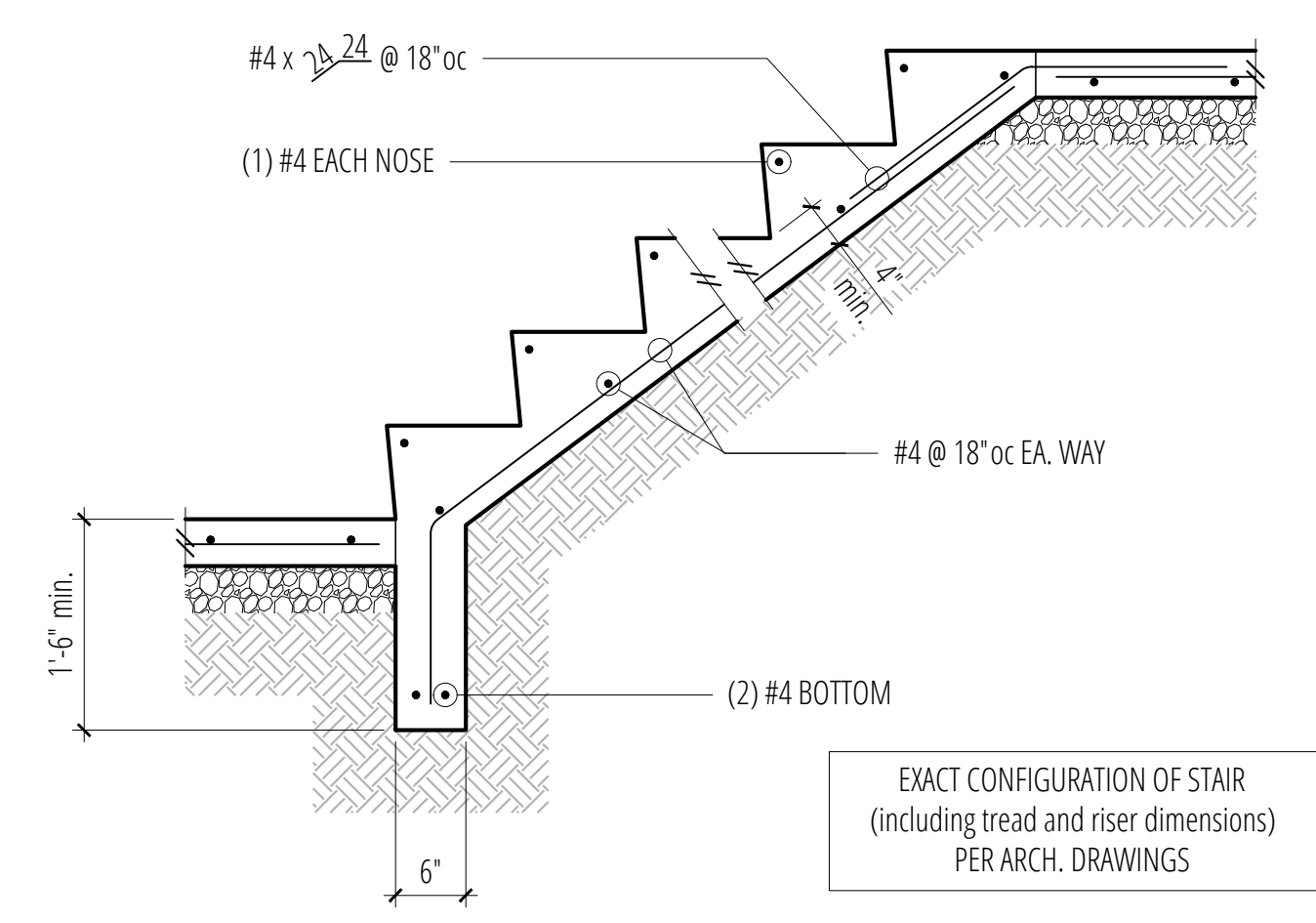
Holddown Schedule

Plan Mark	Screws	Anchor Bolt	A.B. Embed	Holddown Post		Capacity #
				IF 2x4	IF 2x6	
HDU2-SDS2.5	(6) SDS 1/2" x 2 1/2"	SSTB16	12 3/4"	(2) 2x4	4x6	2215/3075
HDU4-SDS2.5	(10) SDS 1/2" x 2 1/2"	SB 3/8" x 24	18"	4x4	4x6	4565
HDU5-SDS2.5	(14) SDS 1/2" x 2 1/2"	SB 3/8" x 24	18"	4x4	4x6	5645
HDU8-SDS2.5	(20) SDS 1/2" x 2 1/2"	SB 3/8" x 24	18"	4x4	4x6	6970
HDU11-SDS2.5	(30) SDS 1/2" x 2 1/2"	SB 1" x 30	24"	4x8	6x6	9535
HDU14-SDS2.5	(36) SDS 1/2" x 2 1/2"	SB 1 1/4" x 30	30"	N/A	6x6	10770
HD12	(4) 1" THRU BOLTS	PAB9H	18 1/2"	N/A	6x6	21620+
HD19	(5) 1" THRU BOLTS	PAB10H	21"	N/A	6x6	26690+

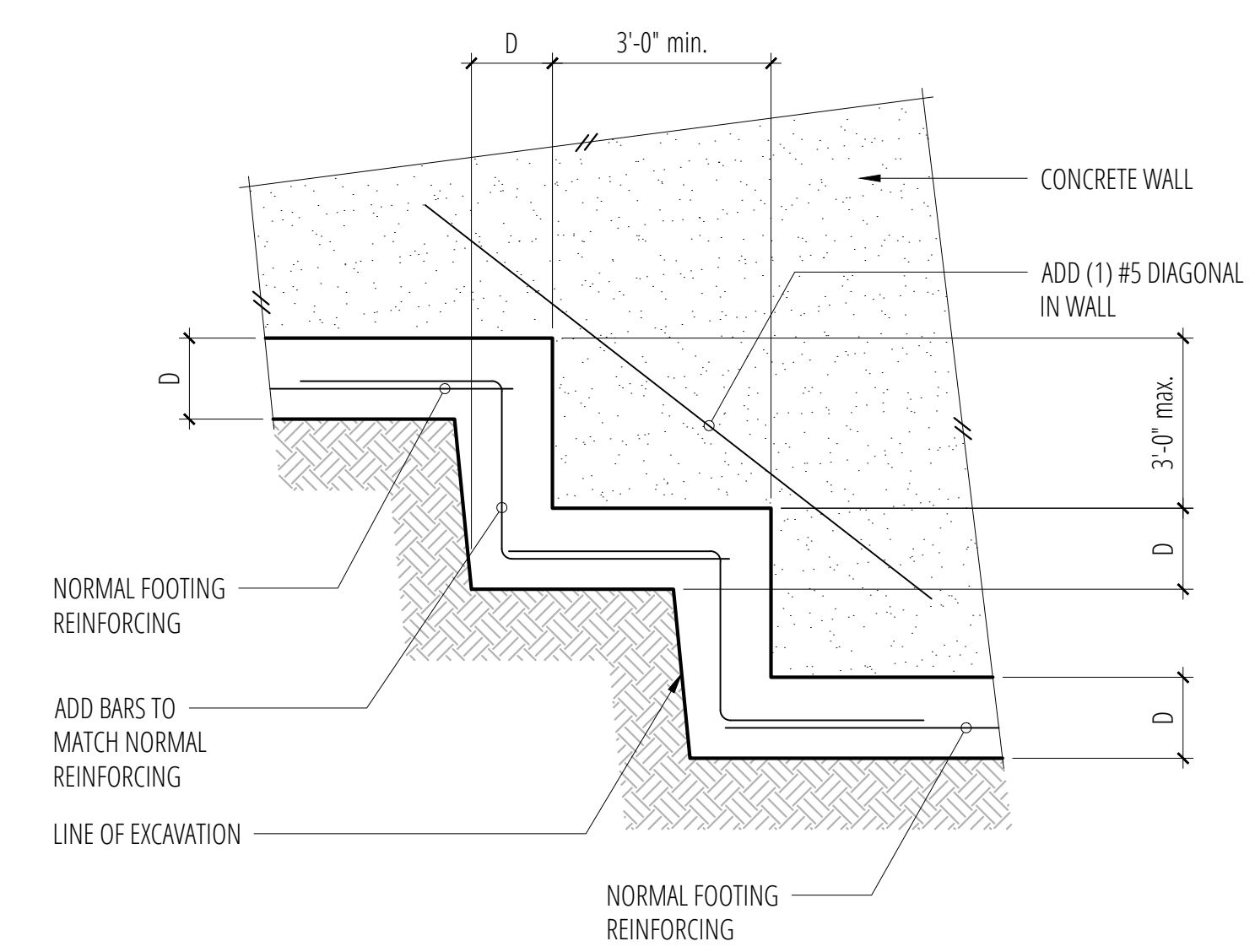
- MINIMUM SIZE OF POST AT END OF WALL UNLESS NOTED OTHERWISE ON FRAMING PLANS.
- "SSTB" & "SB" REFER TO ANCHOR BOLTS BY SIMPSON STRONG-TIE. INSTALL PER MANUFACTURER.

8 Typical HDU Holddown
SCALE: 3/4"=1'-0"

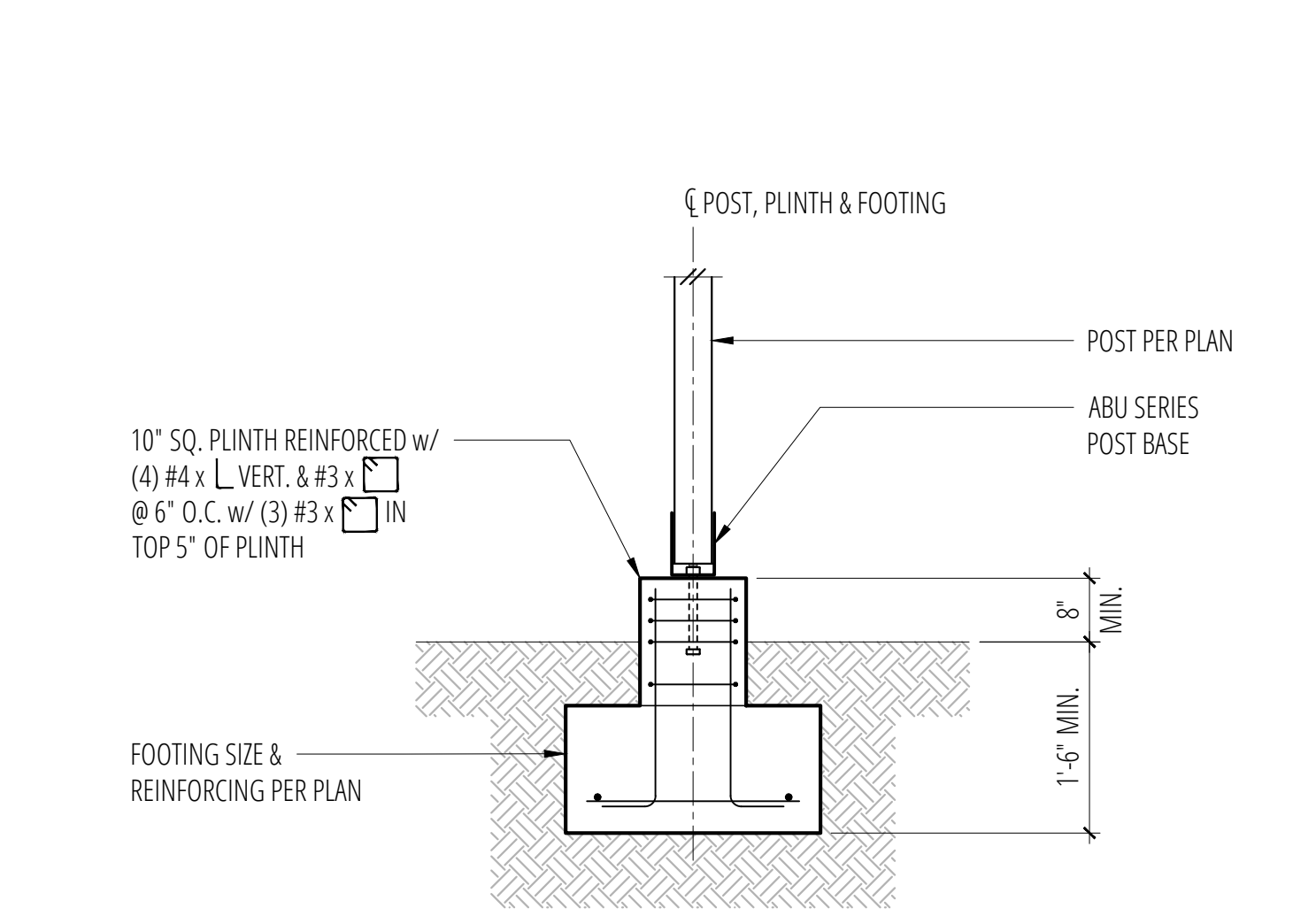
5 Typical Lap Splice & Development Length
SCALE: 3/4"=1'-0"



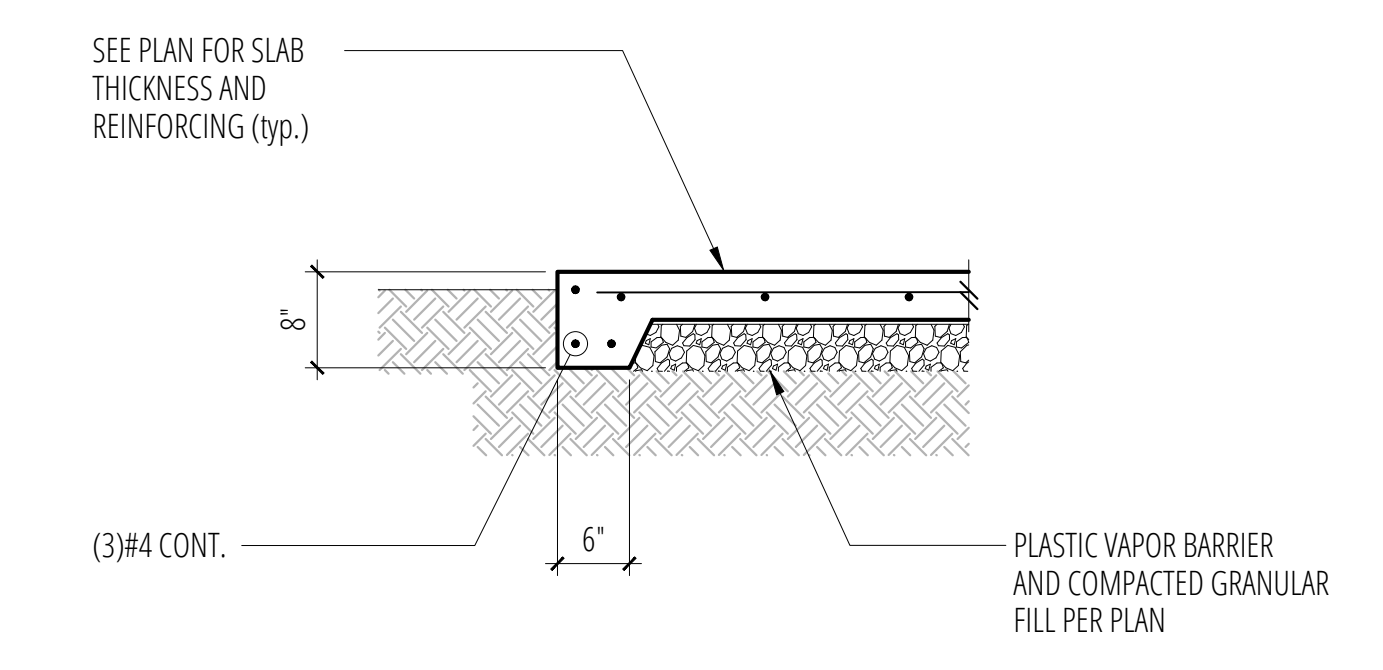
9 Typical Stair on Grade
SCALE: 3/4"=1'-0"



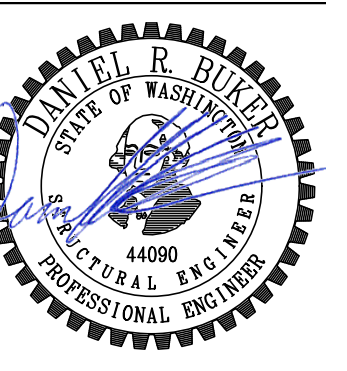
10 Typical Stepped Footing
SCALE: 3/4"=1'-0"



11 Post or Canopy Footing
SCALE: 3/4"=1'-0"



12 Typical Slab Edge
SCALE: 3/4"=1'-0"



No.	Date	Issue
	7/13/17	Permit
1	3/12/18	Corrections

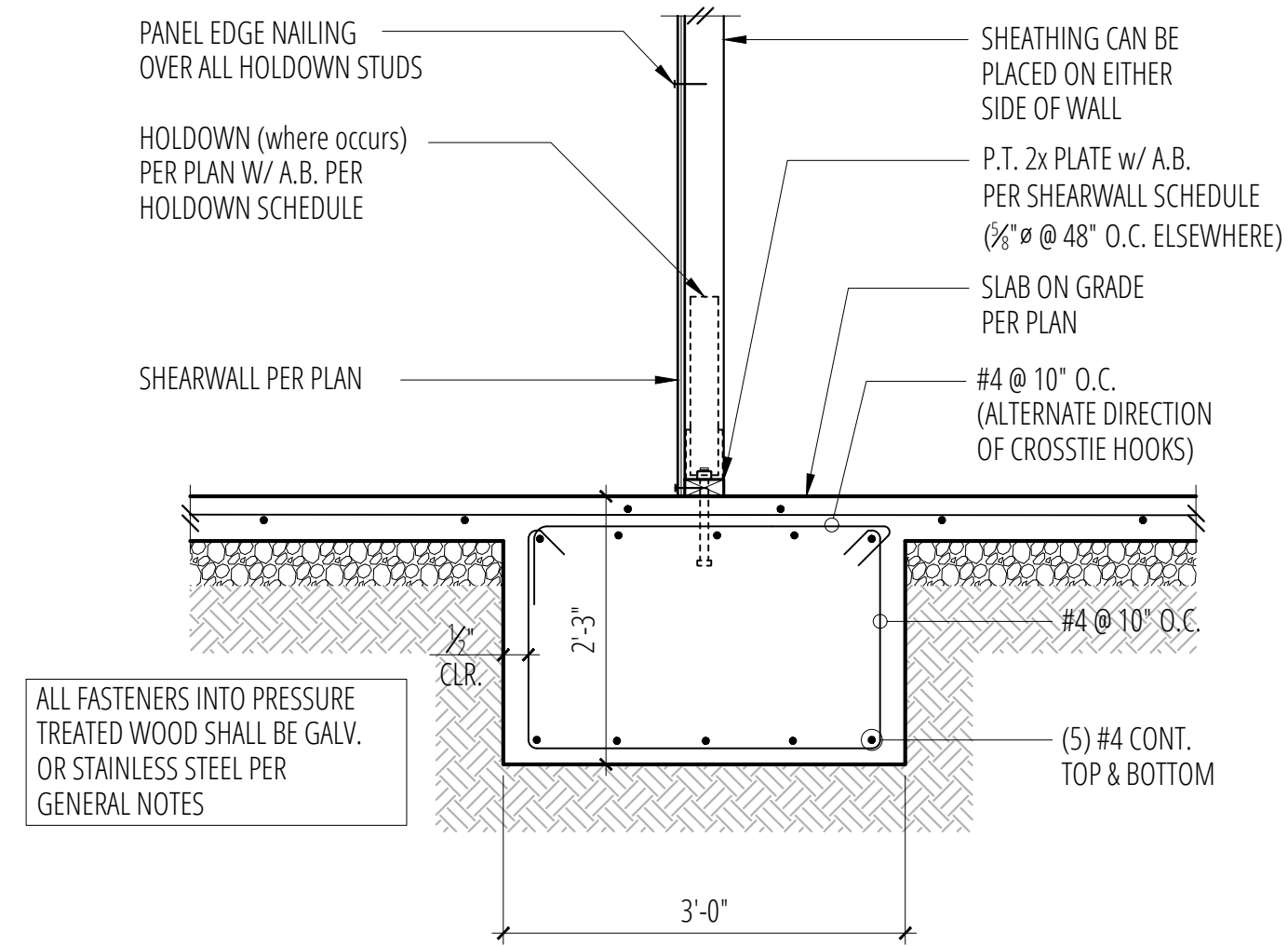
Sheet Contents
Concrete Details

Sheet No.

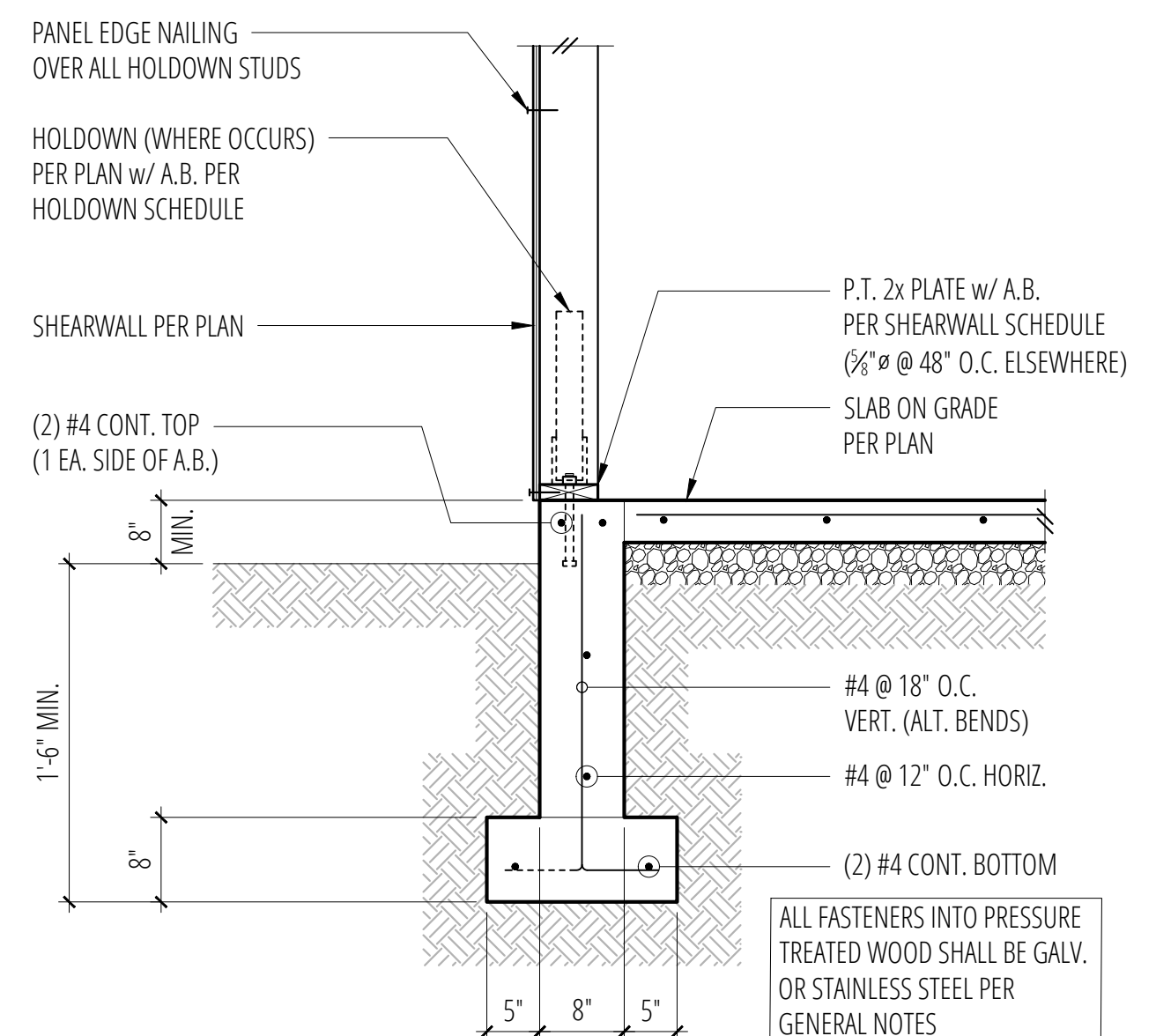
No.	Date	Issue
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Sheet Contents
Concrete Details

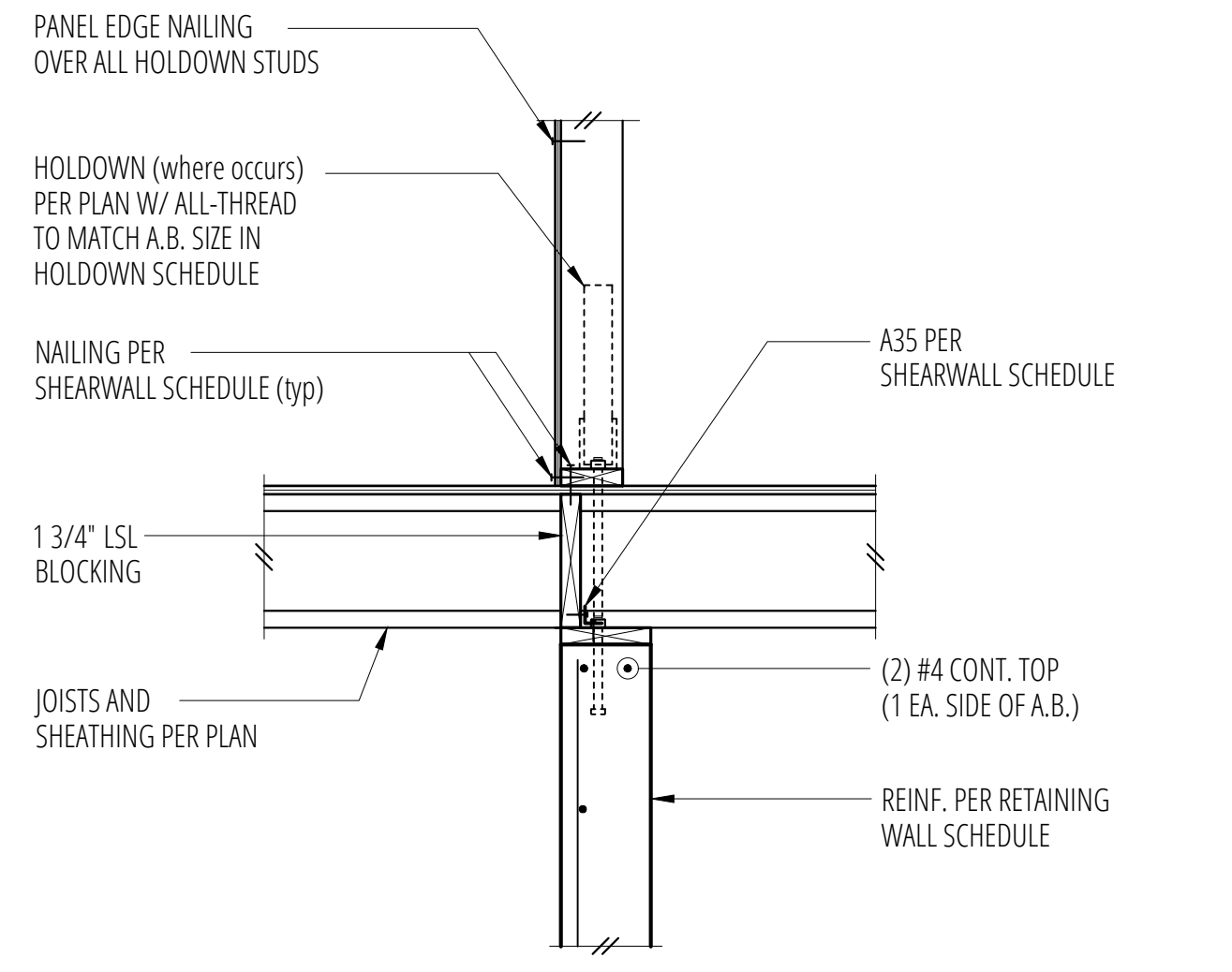
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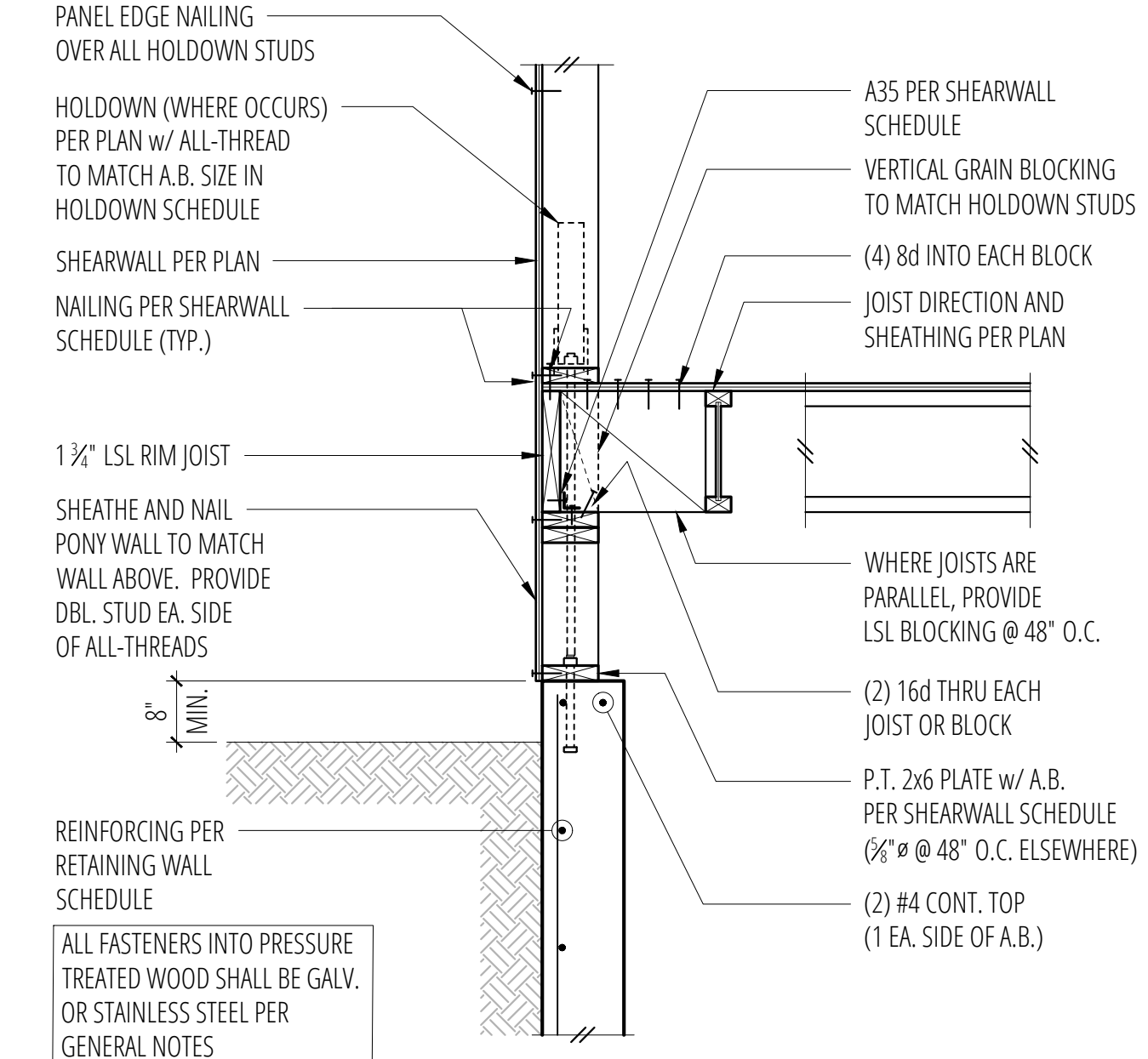
1 Interior Wall w/ Thickened Footing
SCALE: 3/4"=1'-0"



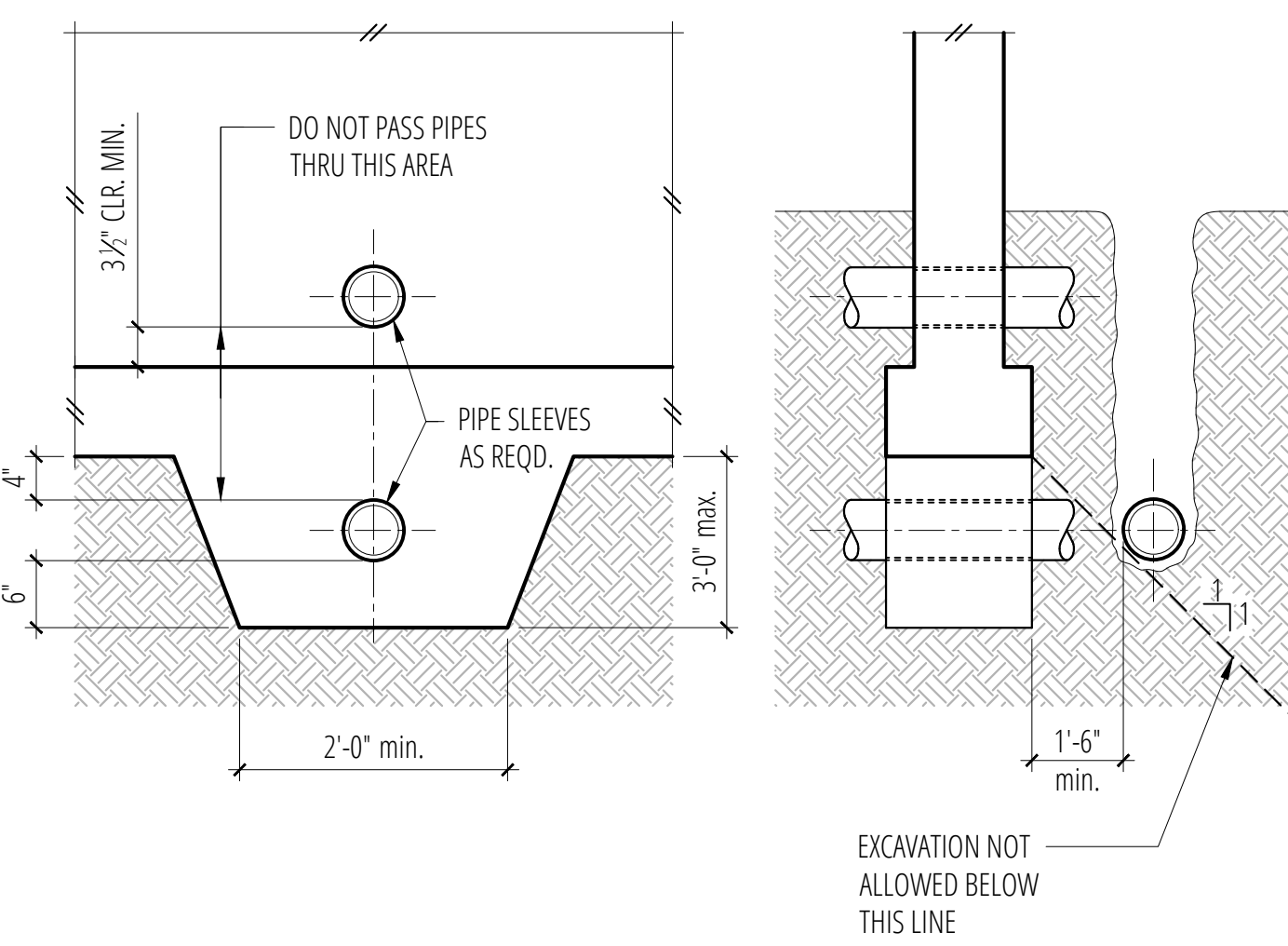
2 Exterior Wall w/ Slab on Grade
SCALE: 3/4"=1'-0"



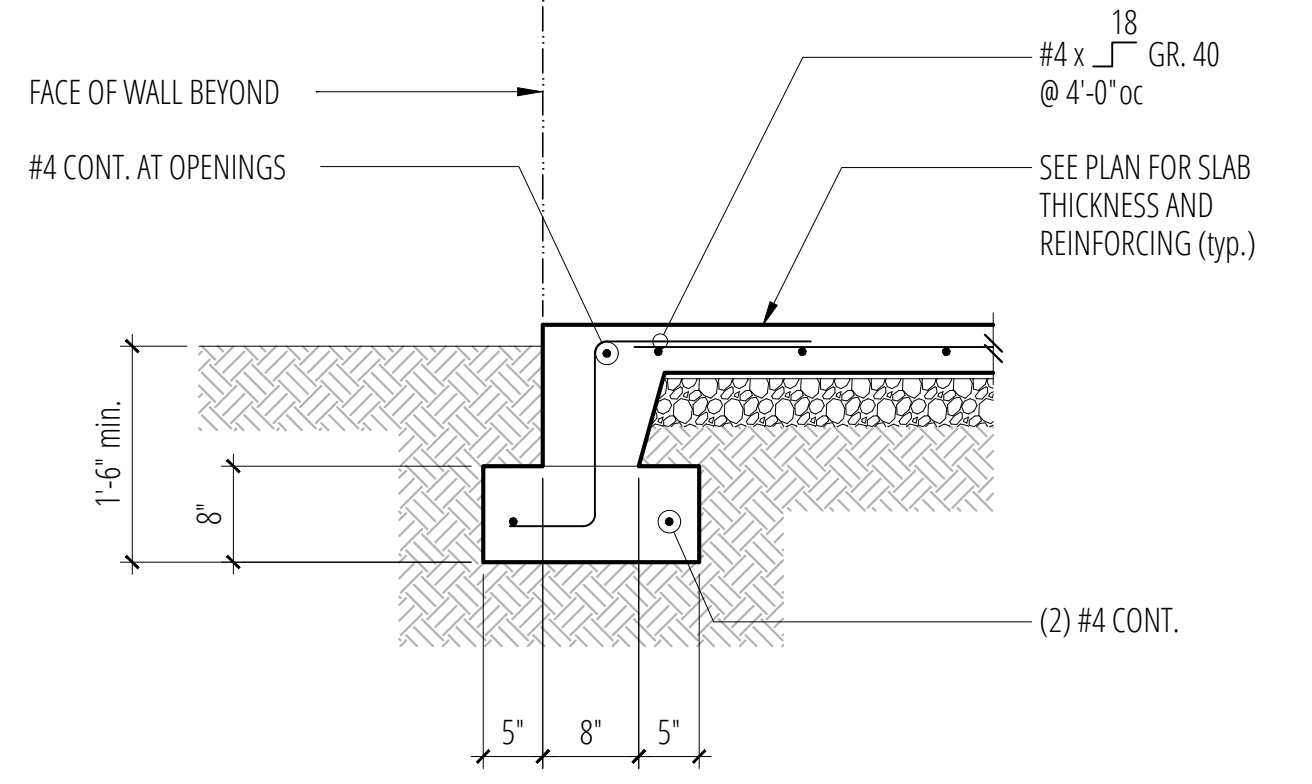
3 Shearwall Over Basement Wall
SCALE: 3/4"=1'-0"



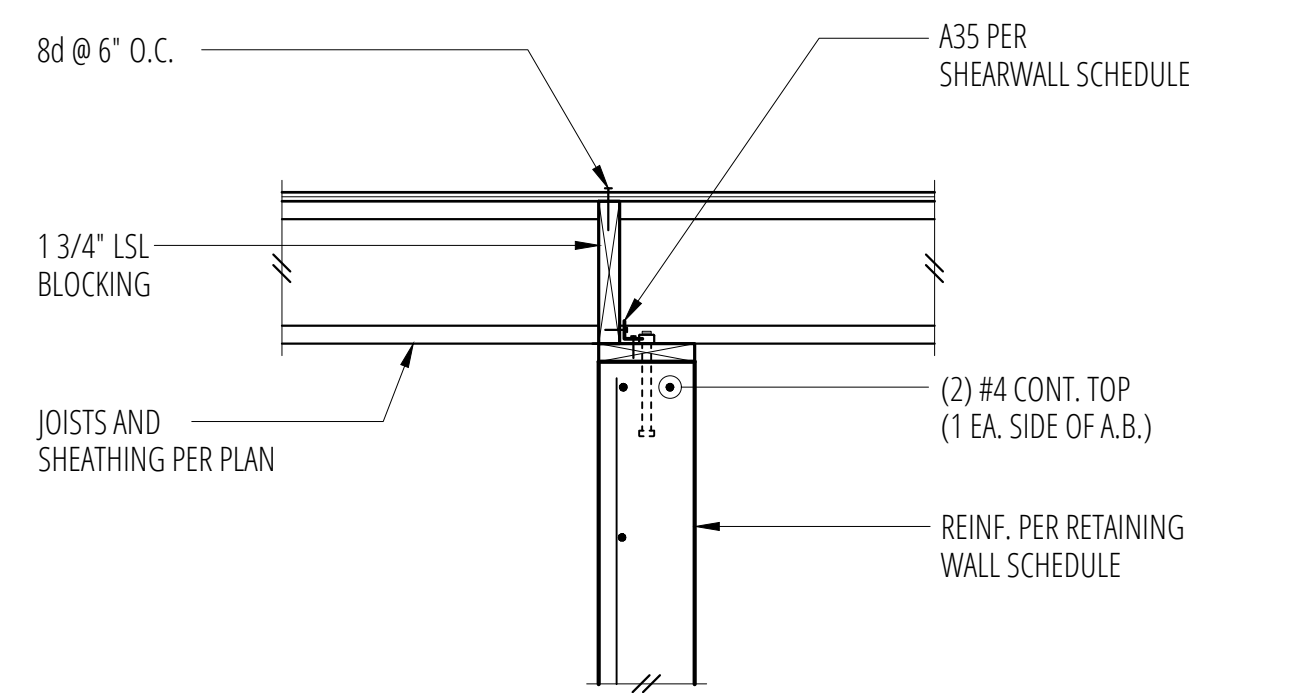
4 Exterior Framing at Basement (w/ Pony Wall)
SCALE: 3/4"=1'-0"



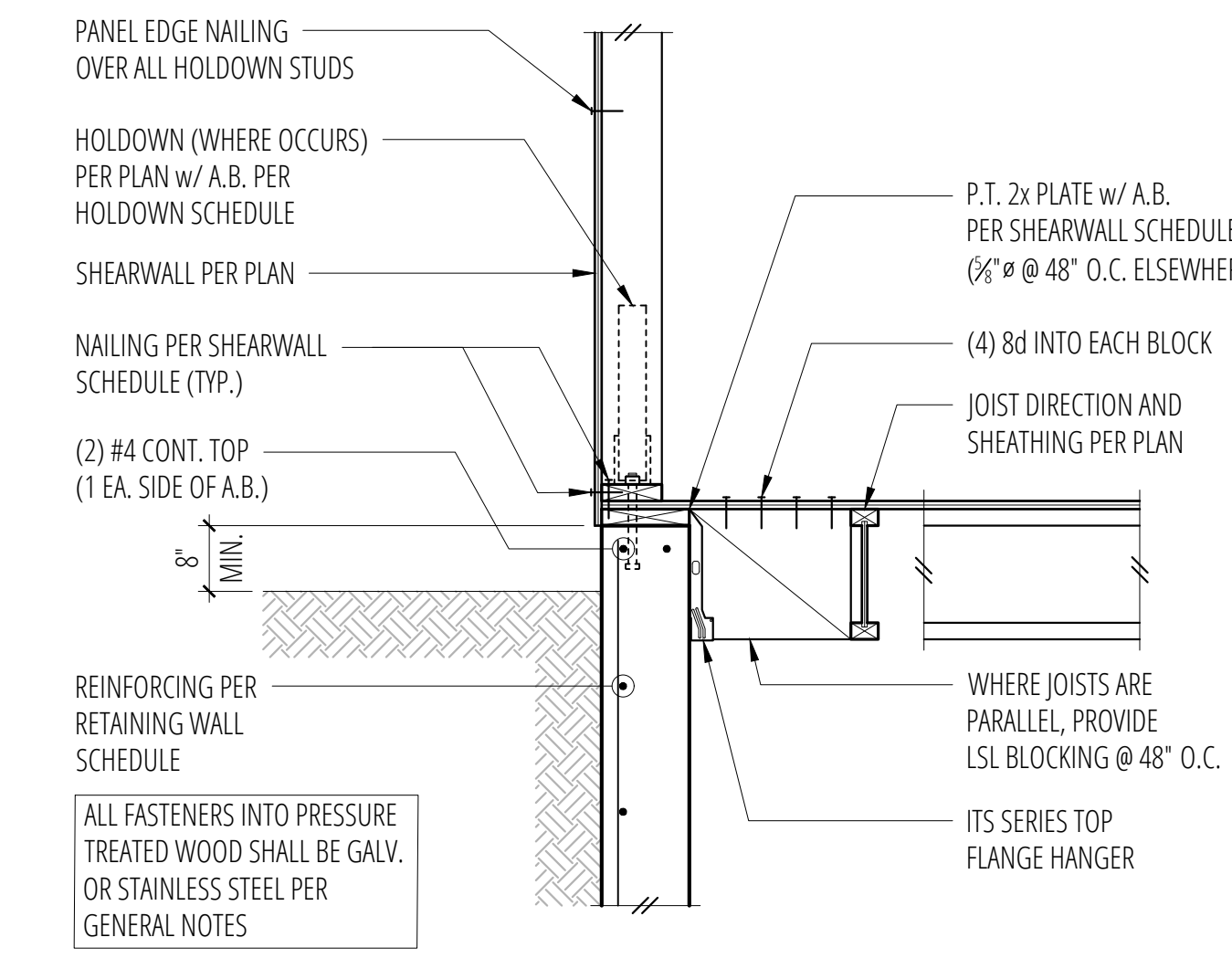
5 Pipe and Trench Locations
SCALE: 3/4"=1'-0"



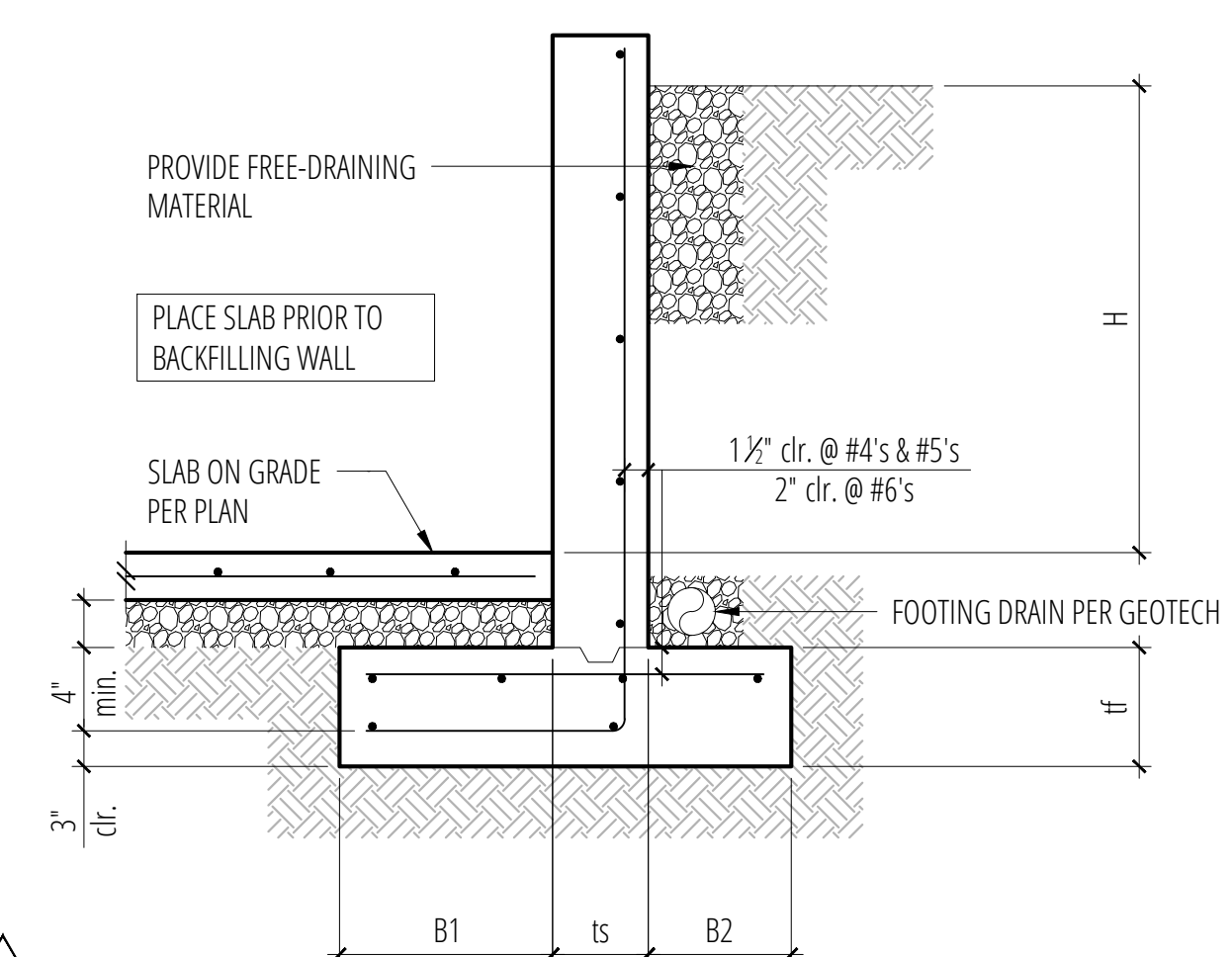
6 Typical Turned-Down Slab Edge
SCALE: 3/4"=1'-0"



7 Floor Framing over Basement Wall
SCALE: 3/4"=1'-0"

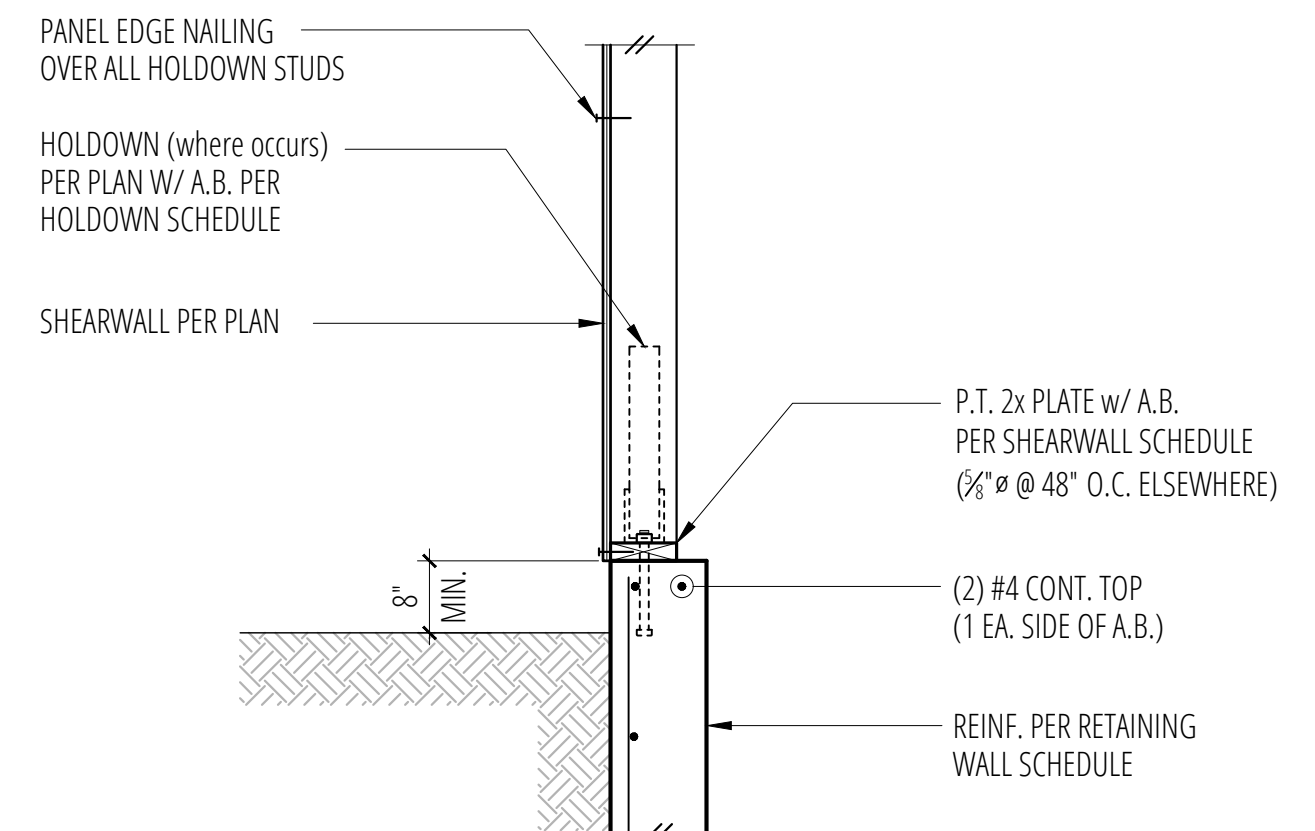


8 Exterior Framing at Basement (Dropped Joist)
SCALE: 3/4"=1'-0"

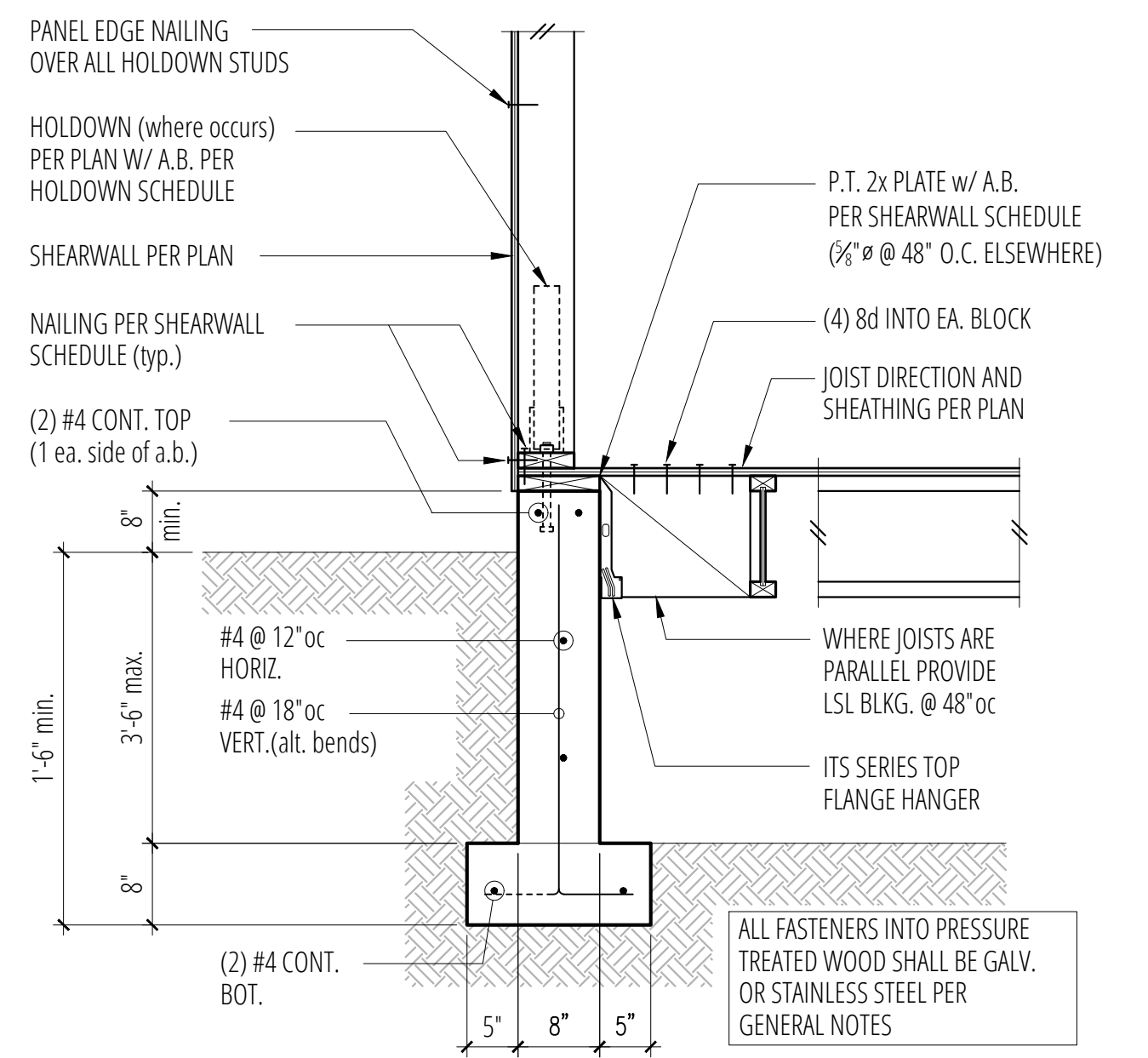


H (ft.)	B1	ts	B2	tf	STEM REINFORCING		FOOTING REINFORCING	
					VERT.	HORIZ.	TOP	LONGIT.
3'-0"	5"	8"	5"	8"	#4 @ 18" O.C.	#4 @ 12" O.C.	-	(2) #4
4'-0"	1'-0"	8"	5"	8"	#4 @ 18" O.C.	#4 @ 12" O.C.	-	(2) #4
5'-0"	1'-6"	8"	5"	10"	#4 @ 18" O.C.	#4 @ 12" O.C.	-	(3) #4
6'-0"	2'-3"	8"	5"	10"	#4 @ 18" O.C.	#4 @ 12" O.C.	-	(4) #4
7'-0"	2'-6"	8"	9"	10"	#4 @ 9" O.C.	#4 @ 9" O.C.	-	(5) #4
8'-0"	2'-9"	8"	1'-0"	12"	#5 @ 12" O.C.	#4 @ 12" O.C.	#5 @ 18" O.C.	(5) #5
9'-0"	3'-3"	8"	1'-3"	13"	#5 @ 9" O.C.	#4 @ 9" O.C.	#4 @ 18" O.C.	(6) #5
10'-0"	4'-3"	8"	1'-6"	15"	#6 @ 9" O.C.	#4 @ 9" O.C.	#4 @ 18" O.C.	(7) #5
11'-0"	4'-6"	10"	2'-0"	15"	#6 @ 9" O.C.	#4 @ 9" O.C.	#4 @ 18" O.C.	(8) #5

9 Retaining Wall Schedule with Slab on Grade
SCALE: 3/4"=1'-0"



11 Stud Wall at Top of Basement Wall
SCALE: 3/4"=1'-0"



12 Exterior Framing (Dropped Joist)
SCALE: 3/4"=1'-0"

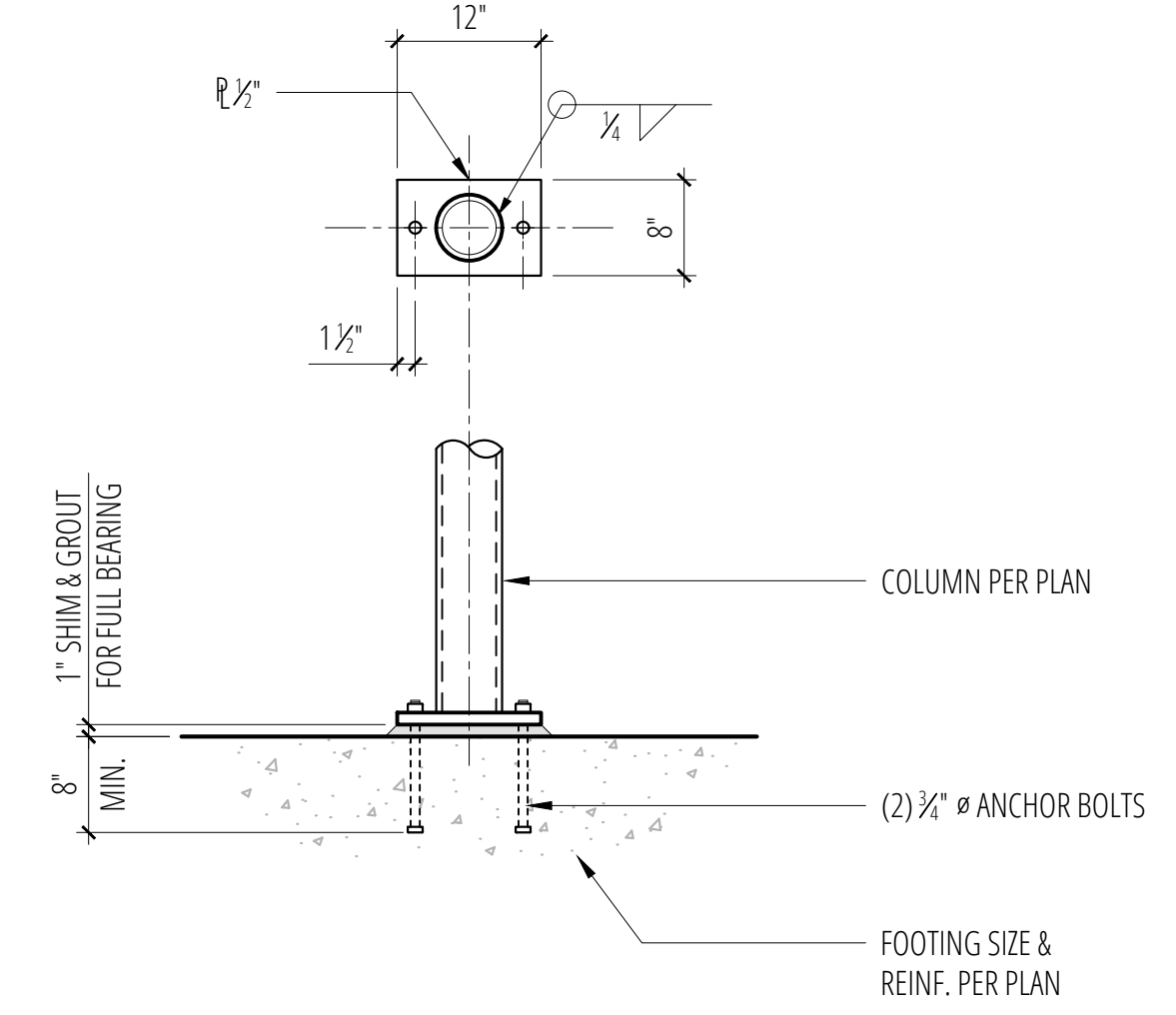


1 SCALE: 3/4"=1'-0"

2 SCALE: 3/4"=1'-0"

3 SCALE: 3/4"=1'-0"

4 Baseplate Connection at Steel Column
SCALE: 3/4"=1'-0"

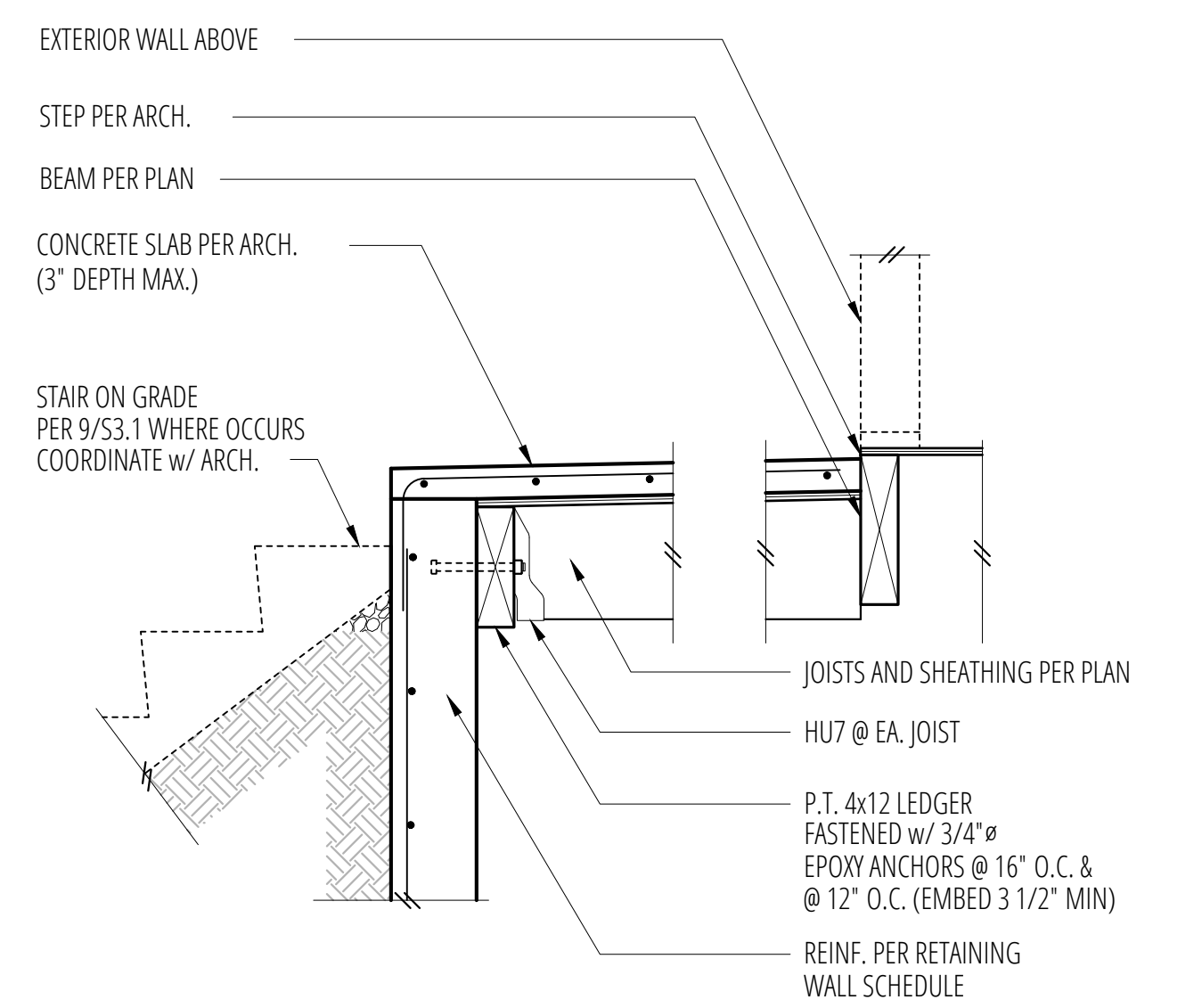
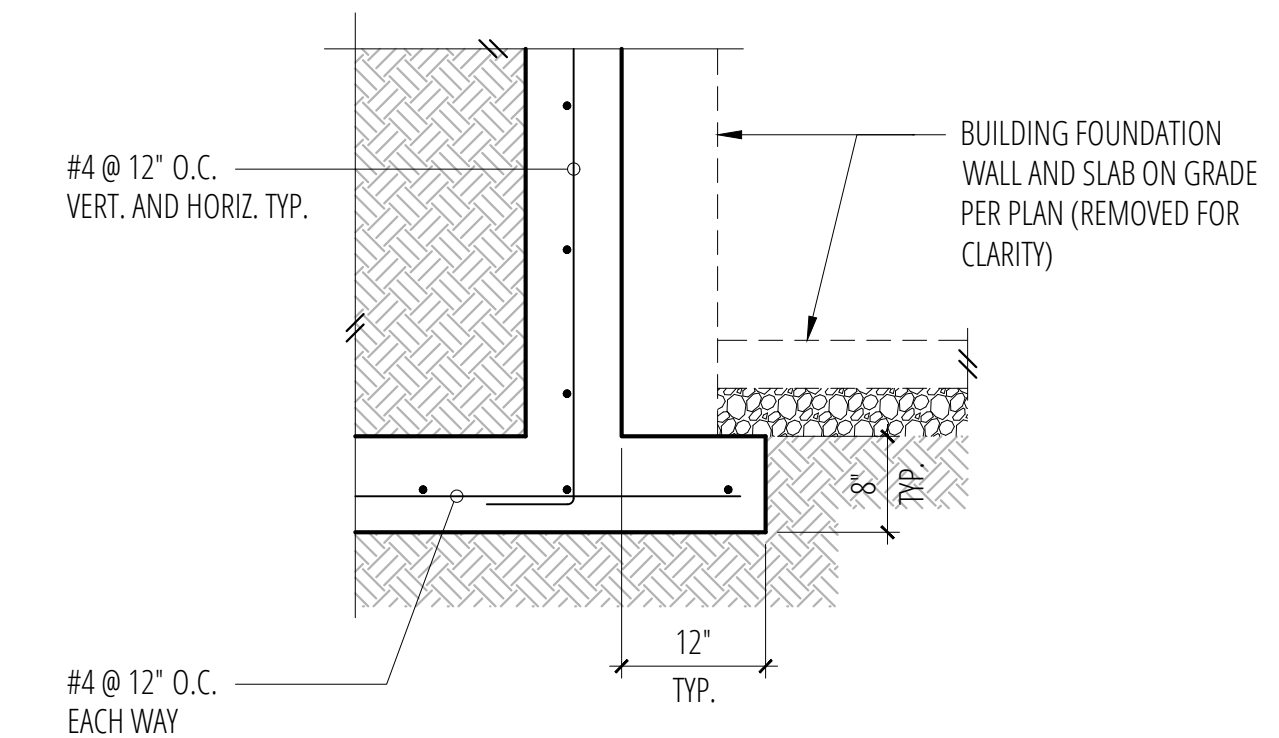


5 SCALE: 3/4"=1'-0"

6 SCALE: 3/4"=1'-0"

7 Planter Wall Footing and Reinforcing
SCALE: 3/4"=1'-0"

8 Slab on Grade / Framing at Entry
SCALE: 3/4"=1'-0"

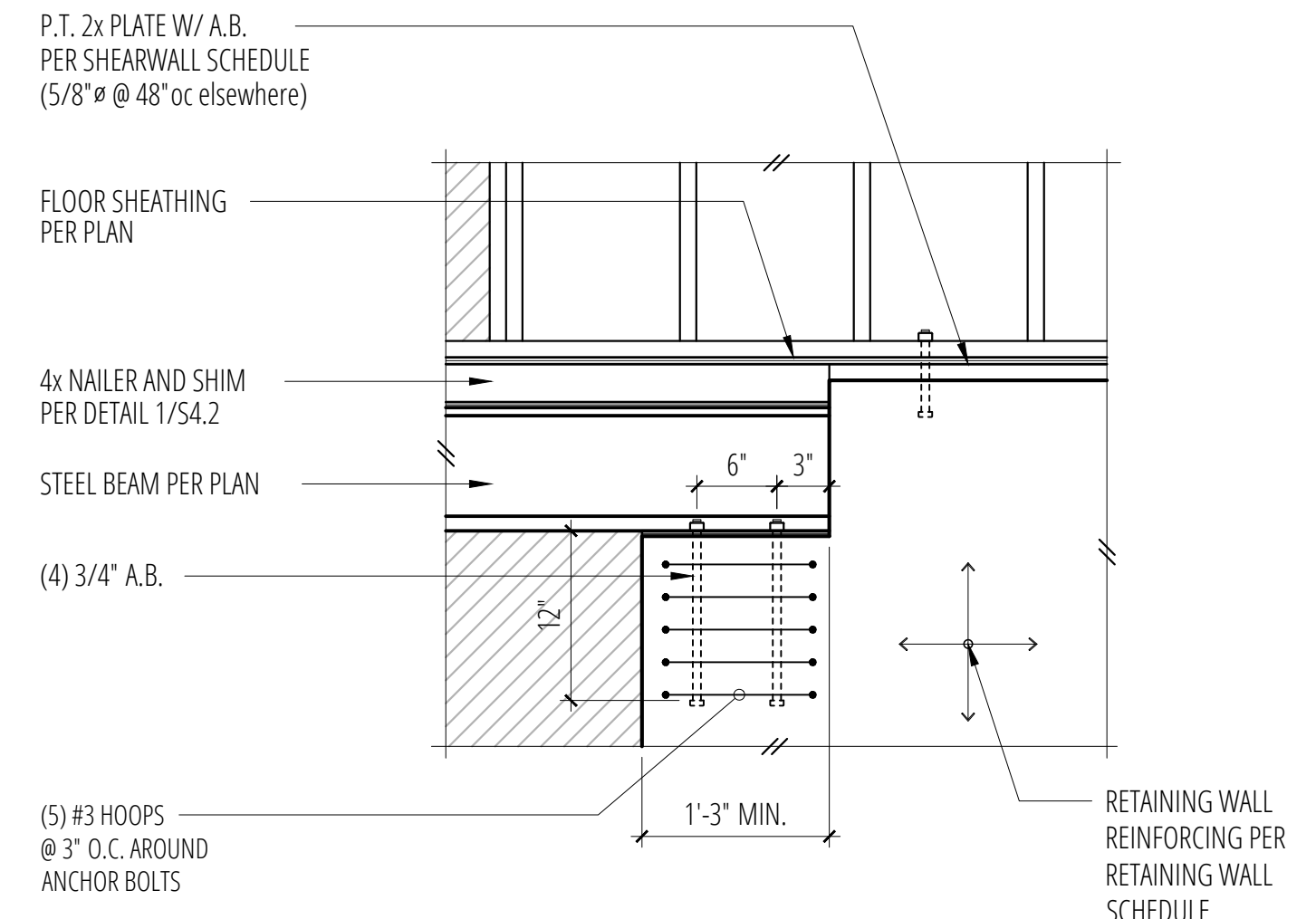
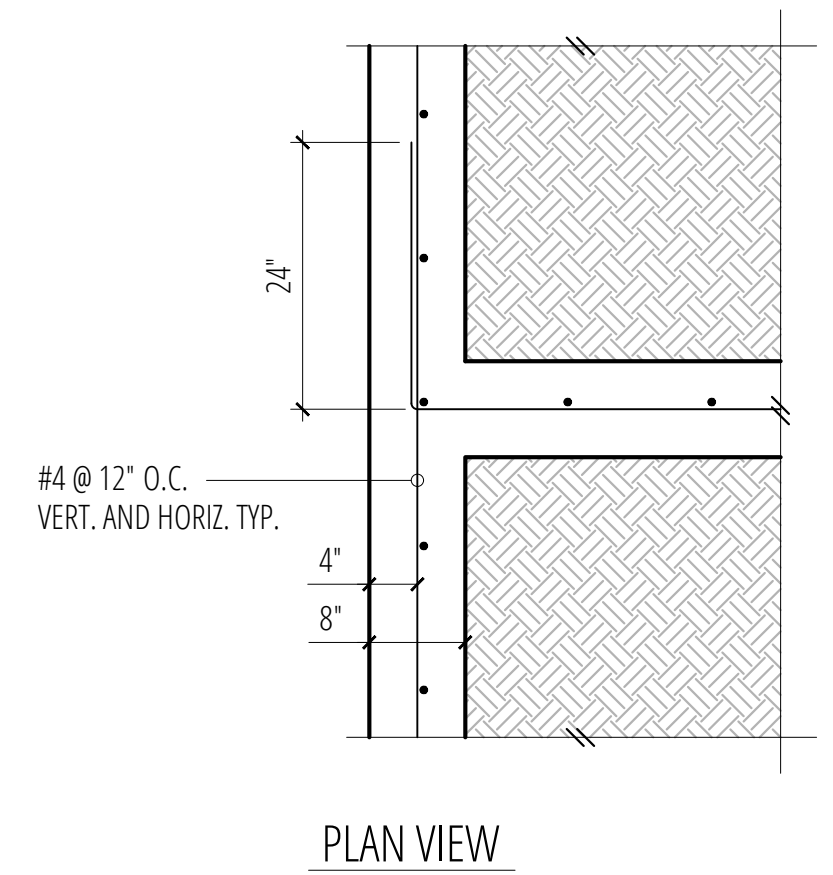


9 SCALE: 3/4"=1'-0"

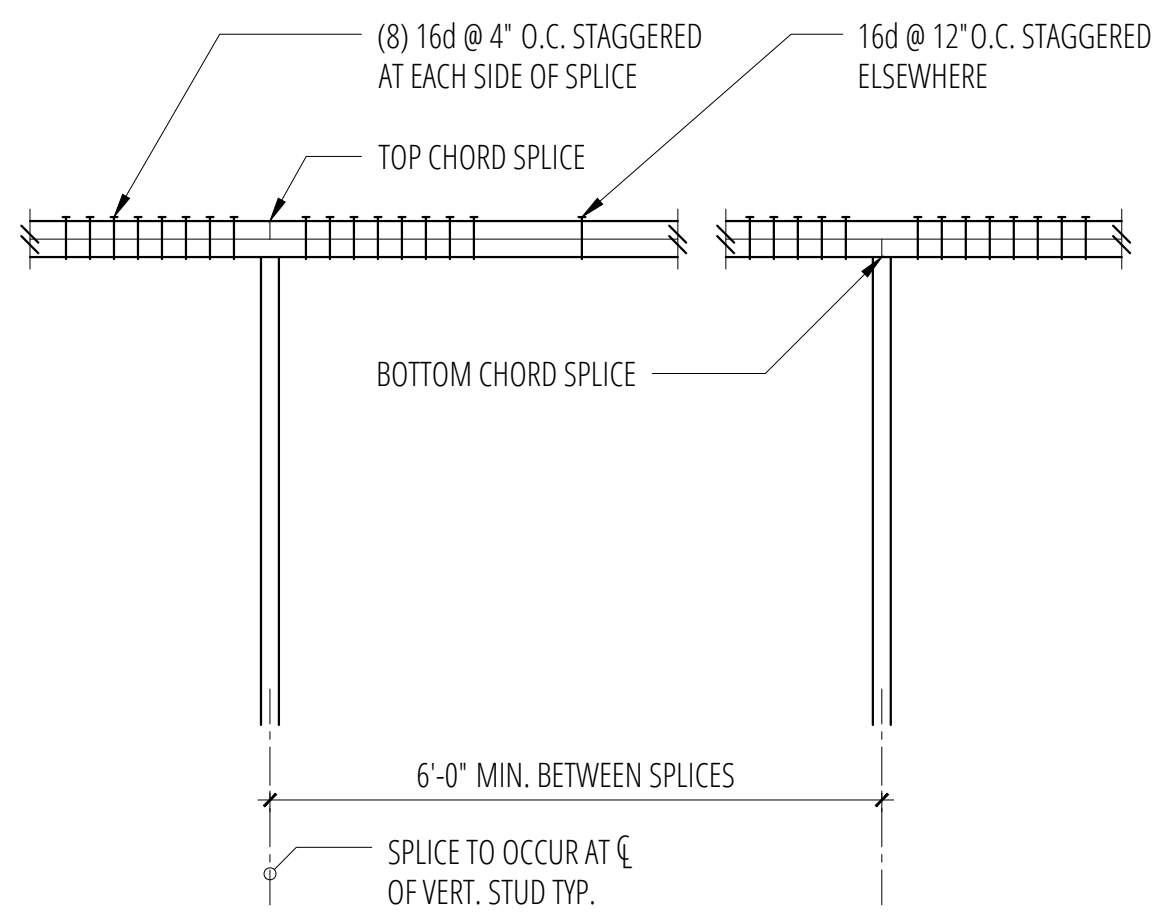
10 SCALE: 3/4"=1'-0"

11 Planter Wall Reinforcing
SCALE: 3/4"=1'-0"

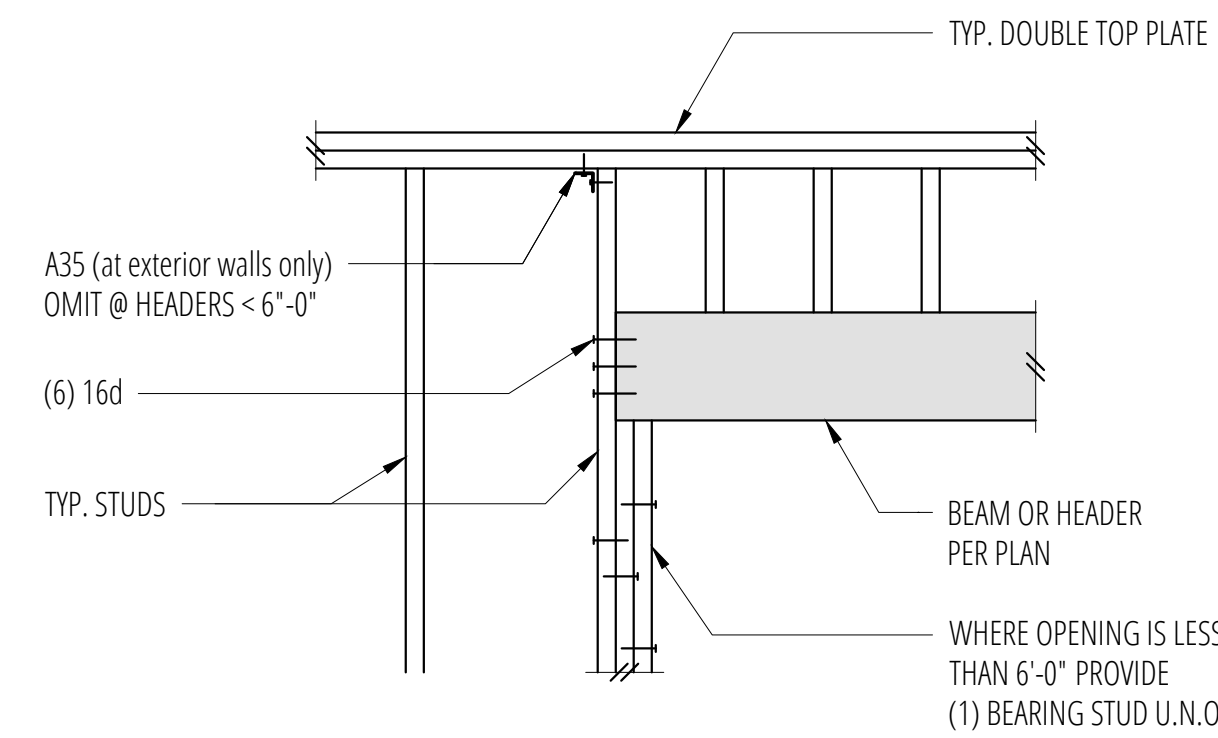
12 Steel Beam Pocket at Retaining Wall
SCALE: 3/4"=1'-0"



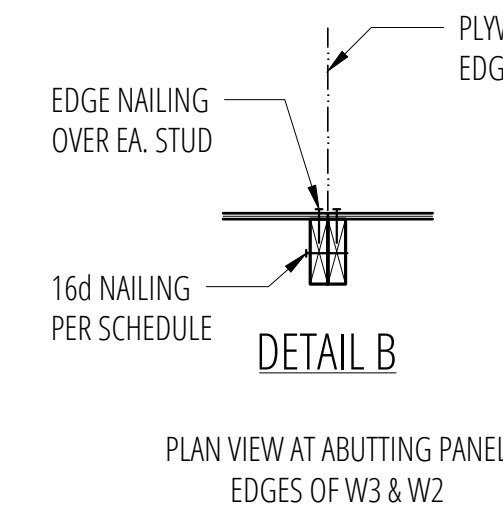
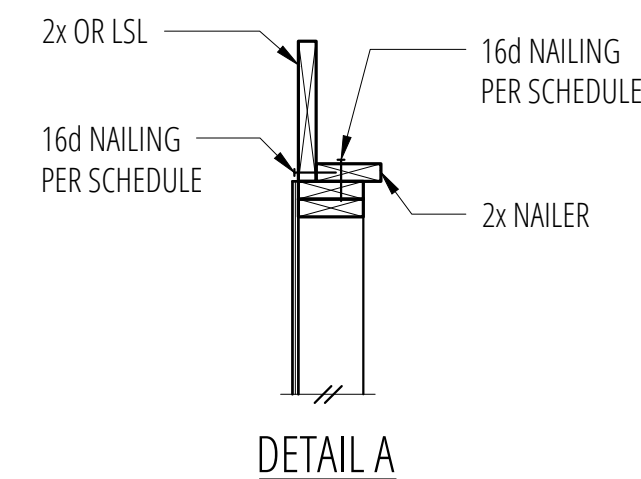
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1 Typical Top Plate Splice
SCALE: 3/4"=1'-0"



2 Typical Header Support
SCALE: 3/4"=1'-0"



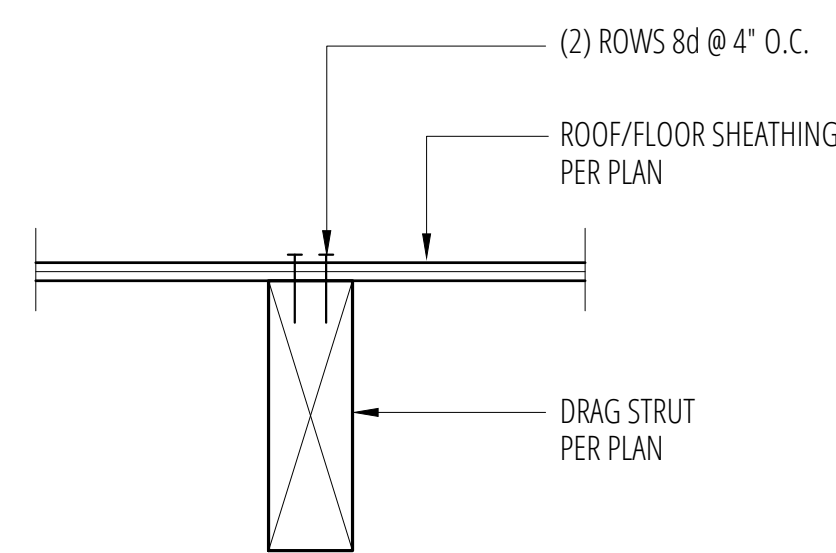
PLAN VIEW AT ABUTTING PANEL EDGES OF W3 & W2

SHEARWALL SCHEDULE ①②③④⑤⑥⑦⑧

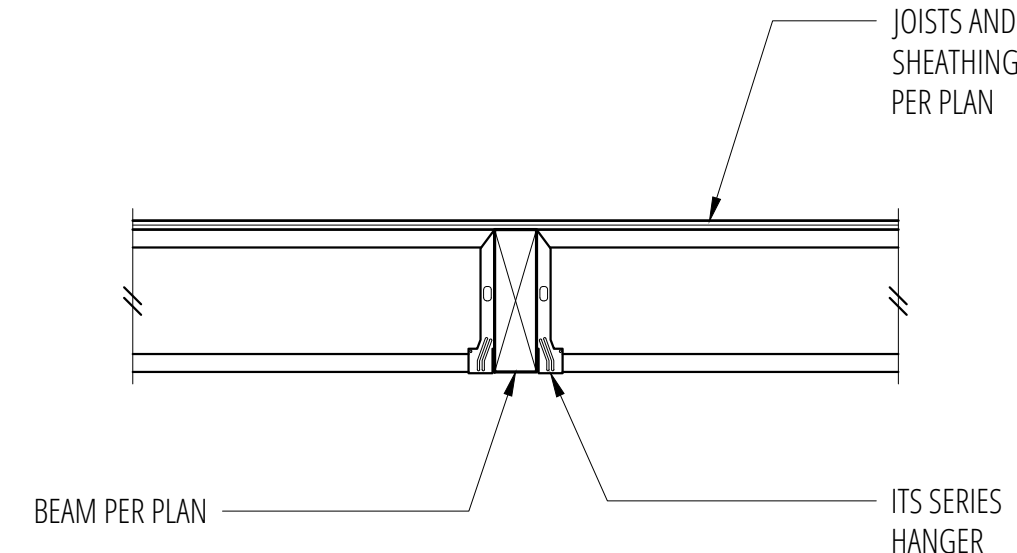
MARK	SHEATHING	PANEL EDGE NAILING	TOP PLATE CONNECTION		BASE PLATE CONNECTION	
			IF TJI	IF 2x OR LSL ⑨	AT WOOD	AT CONCRETE
W6	1/2" CDX PLYWOOD	8d @ 6" OC	16d @ 6" OC	A35 @ 24" OC ⑩	16d @ 6" OC	1/2" A.B. @ 48" OC
W4	1/2" CDX PLYWOOD	8d @ 4" OC	16d @ 3" OC	A35 @ 16" OC ⑩	16d @ 3" OC ⑪	1/2" A.B. @ 32" OC
W3 ④	1/2" CDX PLYWOOD	8d @ 3" OC	(2) ROWS 16d @ 6" OC	A35 @ 12" OC ⑩	16d @ 3" OC ⑪	1/2" A.B. @ 16" OC
W2 ④	1/2" CDX PLYWOOD	8d @ 2" OC	(2) ROWS 16d @ 4 1/2" OC	A35 @ 9" OC ⑩	(2) ROWS 16d @ 4 1/2" OC ⑫	1/2" A.B. @ 12" OC
2W3 ⑤	1/2" CDX PLYWD. EA. SIDE	8d @ 3" OC EA. SIDE	N/A	A35 @ 6" OC	(2) ROWS 16d @ 3" OC ⑫	1/2" A.B. @ 16" OC
2W2 ⑤	1/2" CDX PLYWD. EA. SIDE	8d @ 2" OC EA. SIDE	N/A	HGA10 @ 8" OC	(2) ROWS 16d @ 2" OC ⑫	1/2" A.B. @ 12" OC

- BLOCK PANEL EDGES WITH 2x MIN. LAID FLAT AND NAIL PANELS TO INTERMEDIATE SUPPORTS WITH 8d @ 12" OC
- 8d NAILS SHALL BE 0.131" ϕ x 2 1/2" (COMMON) - 16d NAILS SHALL BE 0.135" ϕ x 3 1/2" (BOX)
- EMBED ANCHOR BOLTS AT LEAST 7" EXPANSION BOLTS MAY BE SUBSTITUTED FOR ANCHOR BOLTS WITH 4" EMBEDMENT. ALL BOLTS SHALL HAVE 3" x 3" x 1/2" PLATE WASHERS.
- 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.
- 3x FOUNDATION SILL PLATES ARE REQUIRED FOR 2W3 AND 2W2. 3x STUDS ARE REQUIRED AT ABUTTING PANEL EDGES AND PANEL JOINTS SHALL BE OFFSET EACH SIDE OF WALL. STAGGER NAILS AT ADJOINING PANEL EDGES. 3x STUDS, MIN., REQUIRED AT END OF SHEARWALL.
- TWO STUDS MINIMUM ARE REQUIRED AT EACH END OF ALL SINGLE-SIDED SHEARWALLS. ALL END STUDS SHALL RECEIVE PANEL EDGE NAILING. SEE PLANS AND HOLDOWN SCHEDULE FOR ALTERNATE REQUIREMENTS.
- ALL EXTERIOR WALLS SHALL BE W6, UNLESS NOTED OTHERWISE
- 1/4" O.S.B. MAY BE SUBSTITUTED FOR 1/2" CDX.
- LP4'S MAY BE SUBSTITUTED FOR A35'S AT CONTRACTORS OPTION.
- A 2x NAILER ATTACHED W/ BASE PLATE NAILING PER DETAIL A MAY BE SUBSTITUTED FOR A35'S AT CONTRACTORS OPTION.
- STAGGER NAILS IN ROW W/ 1/2" MIN. OFFSET.
- MINIMUM OFFSET BETWEEN ROWS 1/2", AND MINIMUM RIM OR JOIST 3 1/2" WIDE.

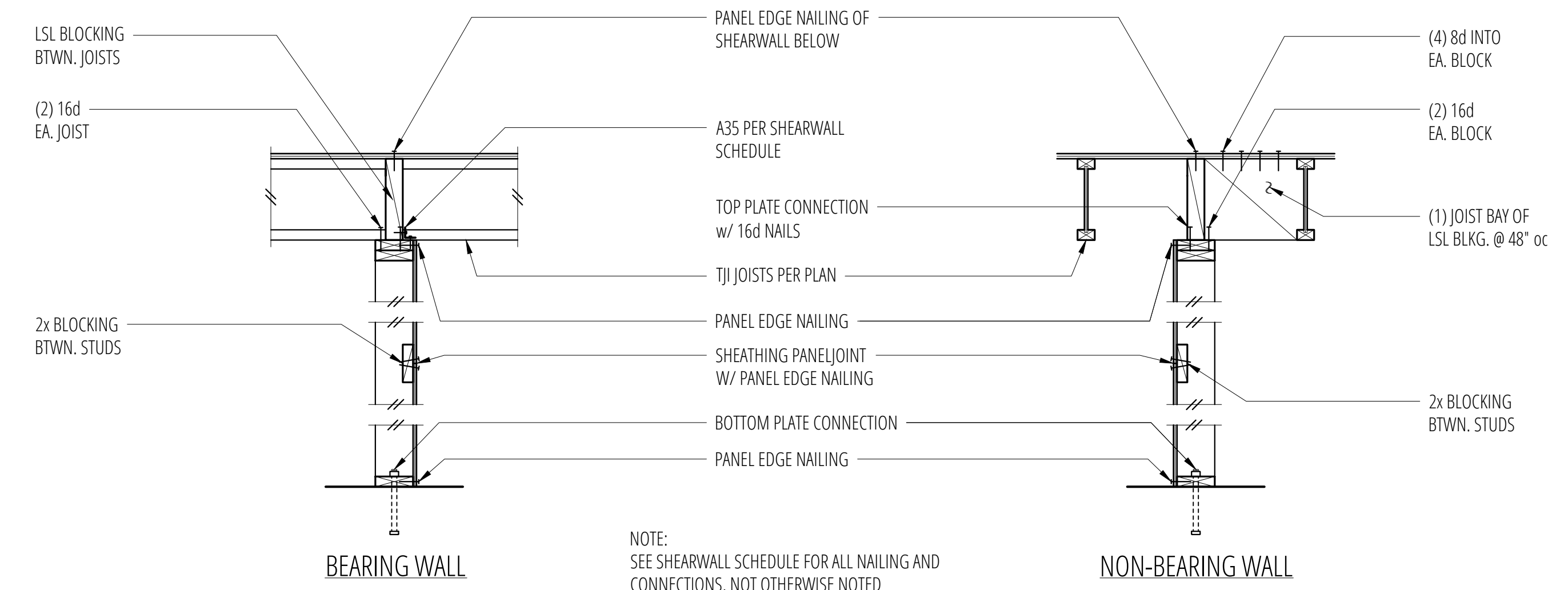
3 Shearwall Schedule
SCALE: N.T.S.



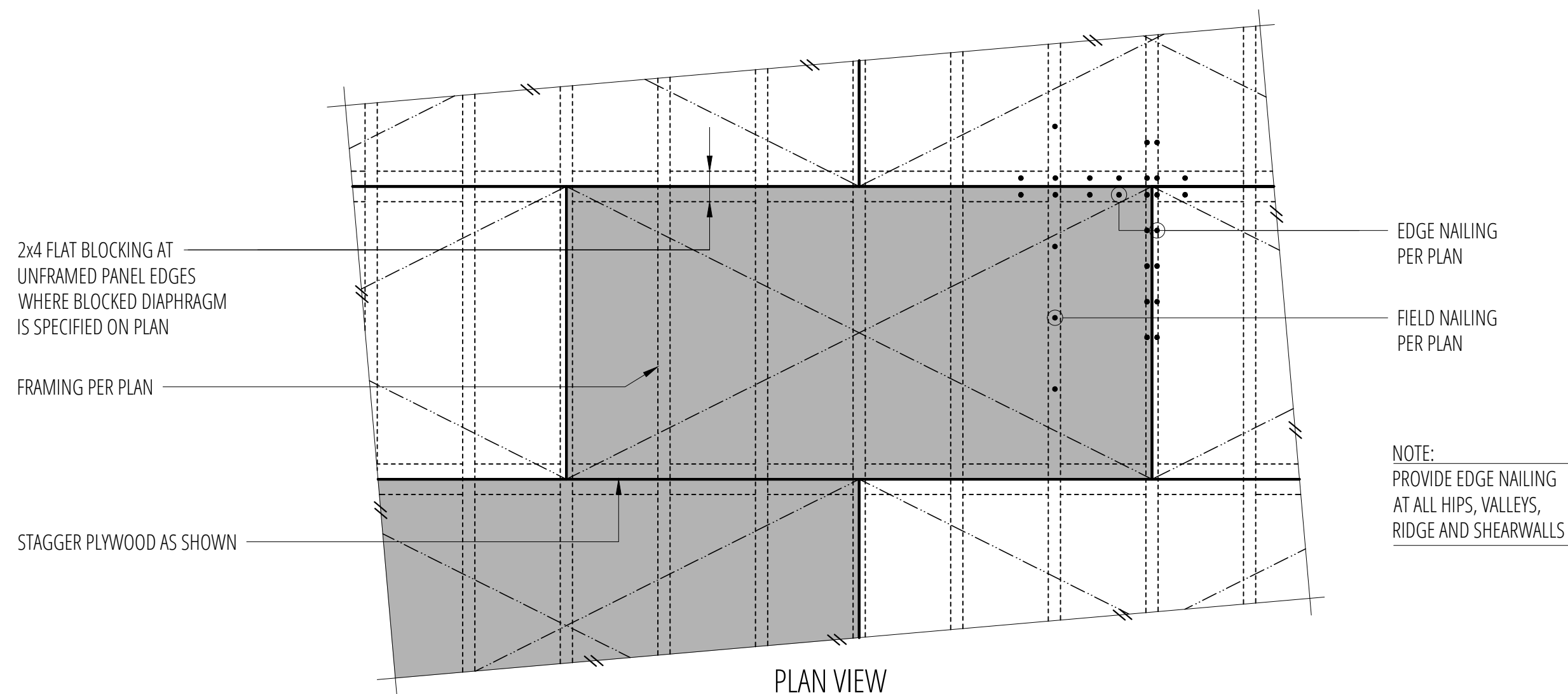
5 Typical Drag Strut (D.S.)
SCALE: 3/4"=1'-0"



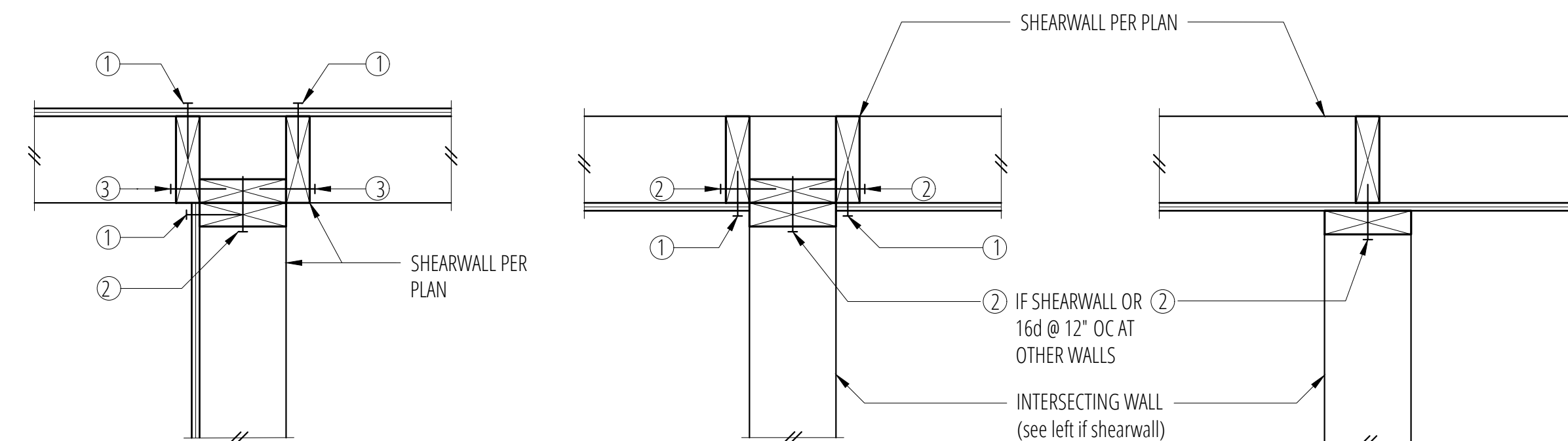
6 Typical Flush Beam
SCALE: 3/4"=1'-0"



7 Typical Shearwall Construction
SCALE: N.T.S.



9 Typical Diaphragm Sheathing and Nailing
SCALE: 3/4"=1'-0"



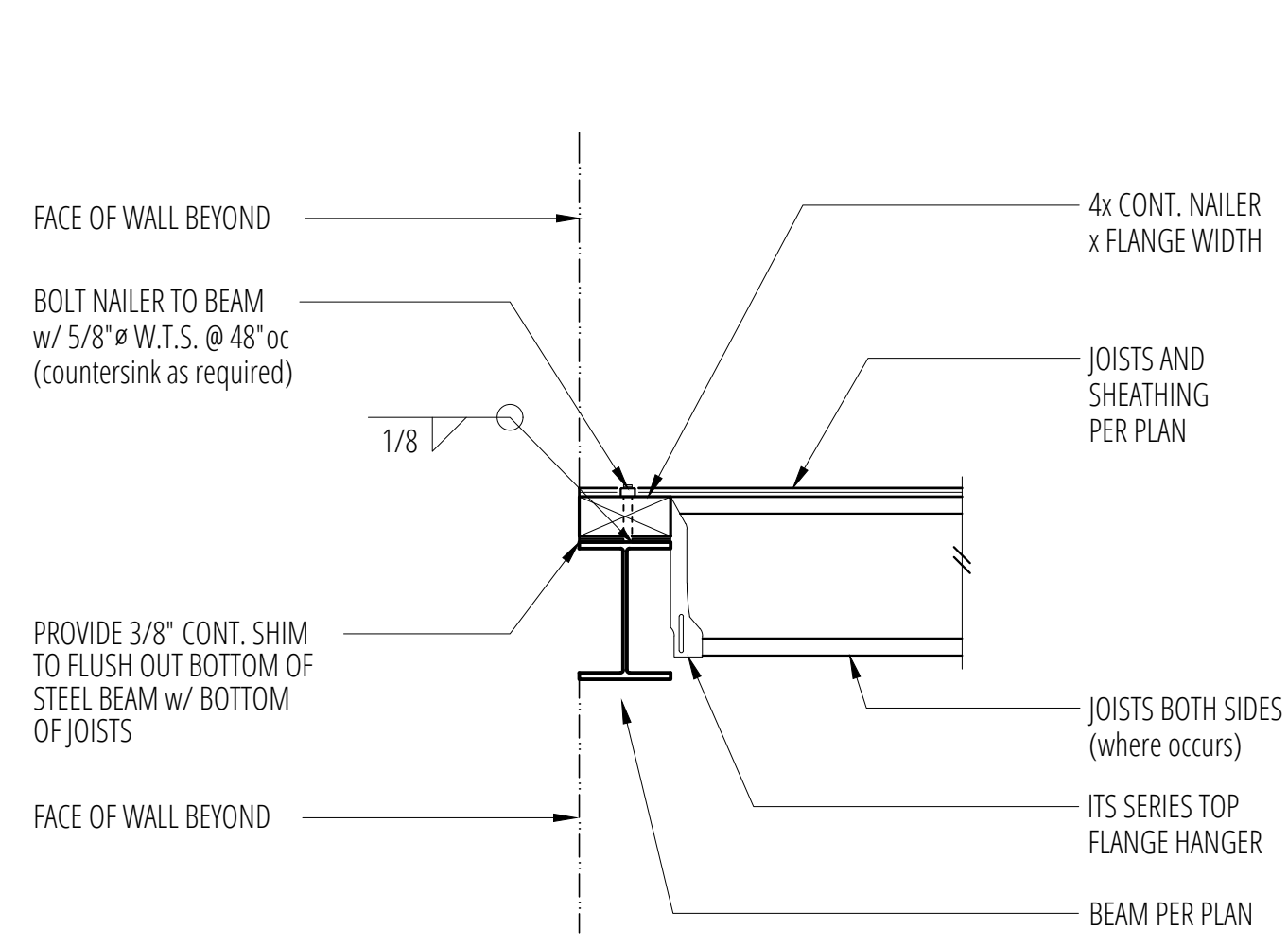
- PLYWOOD PANEL EDGE NAILING PER SHEARWALL SCHEDULE
- BASE PLATE NAILING PER SHEARWALL SCHEDULE
- 16d @ 8" OC

11 Typical Shearwall Intersections
SCALE: N.T.S.

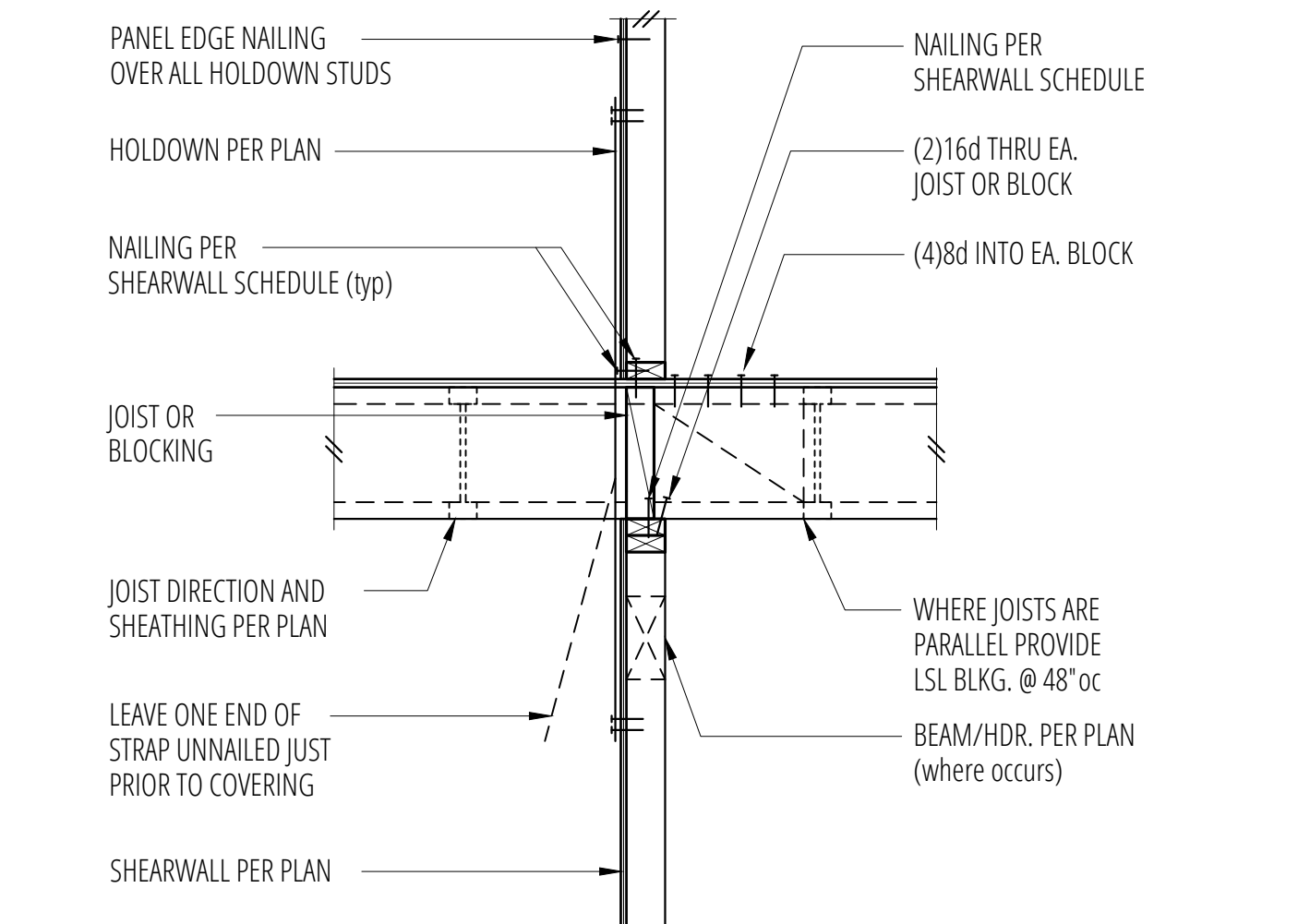
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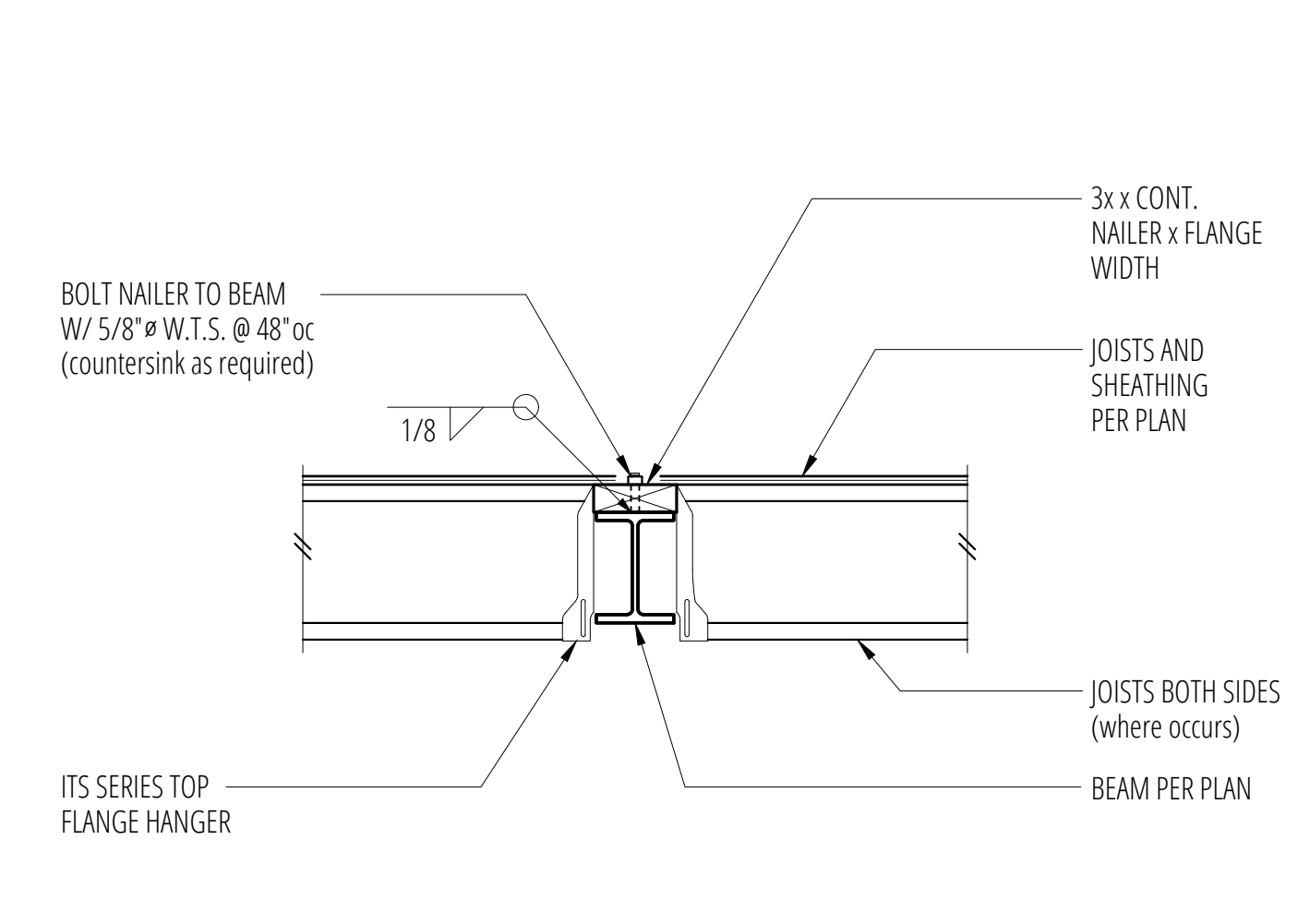
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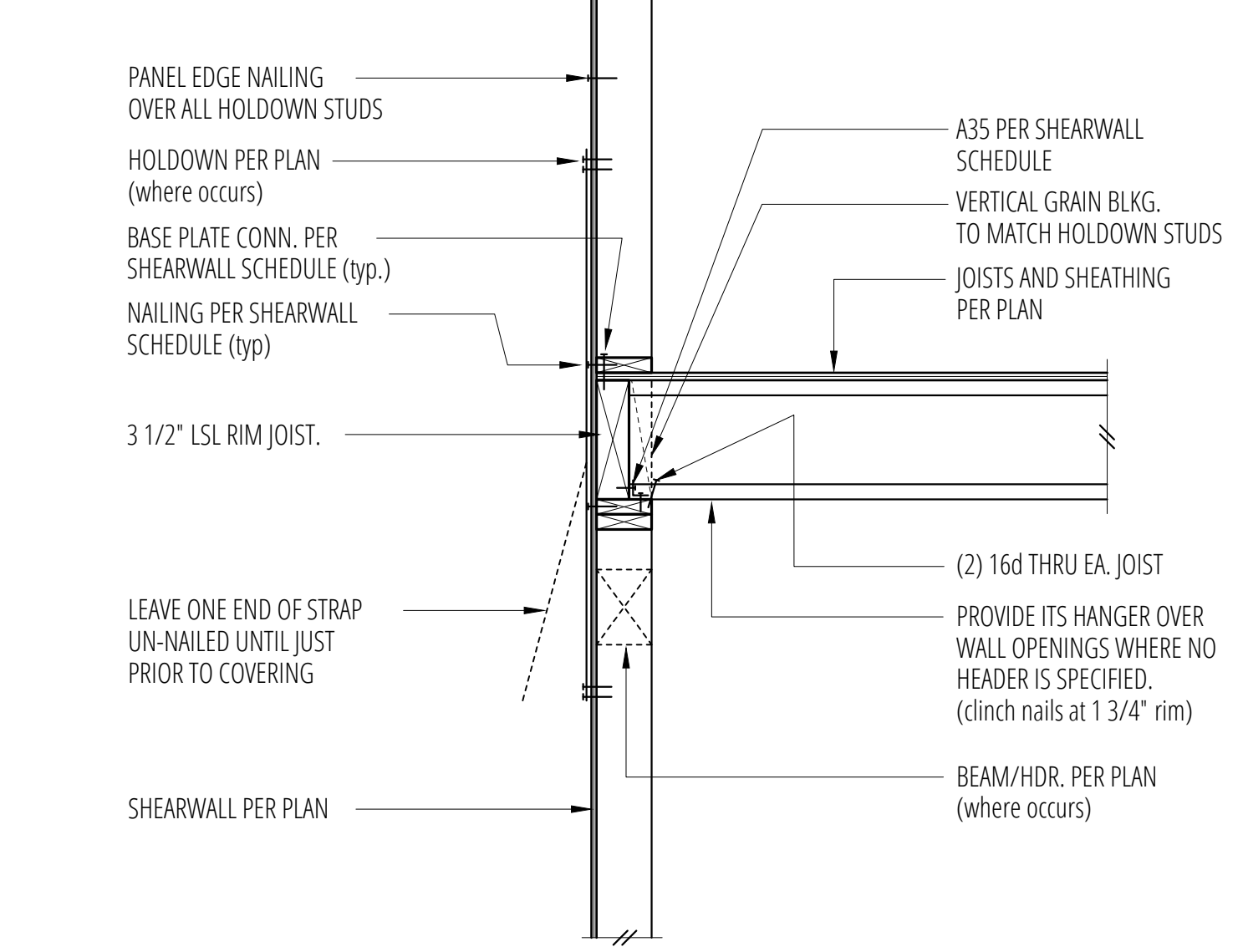
1 Exterior Framing at Steel Beam
SCALE: 3/4"=1'-0"



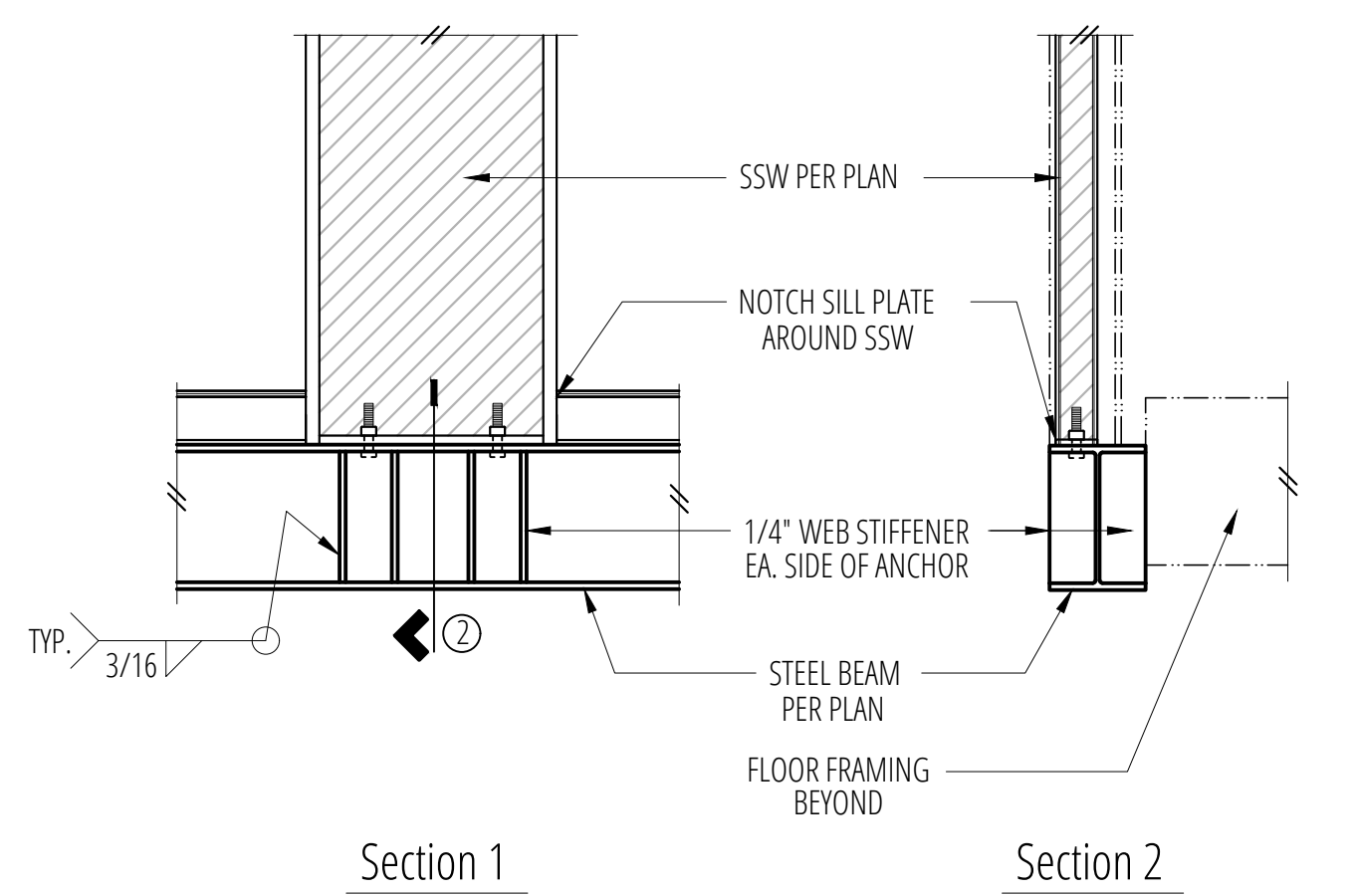
2 Interior Shearwall (w/TJI's)
SCALE: 3/4"=1'-0"



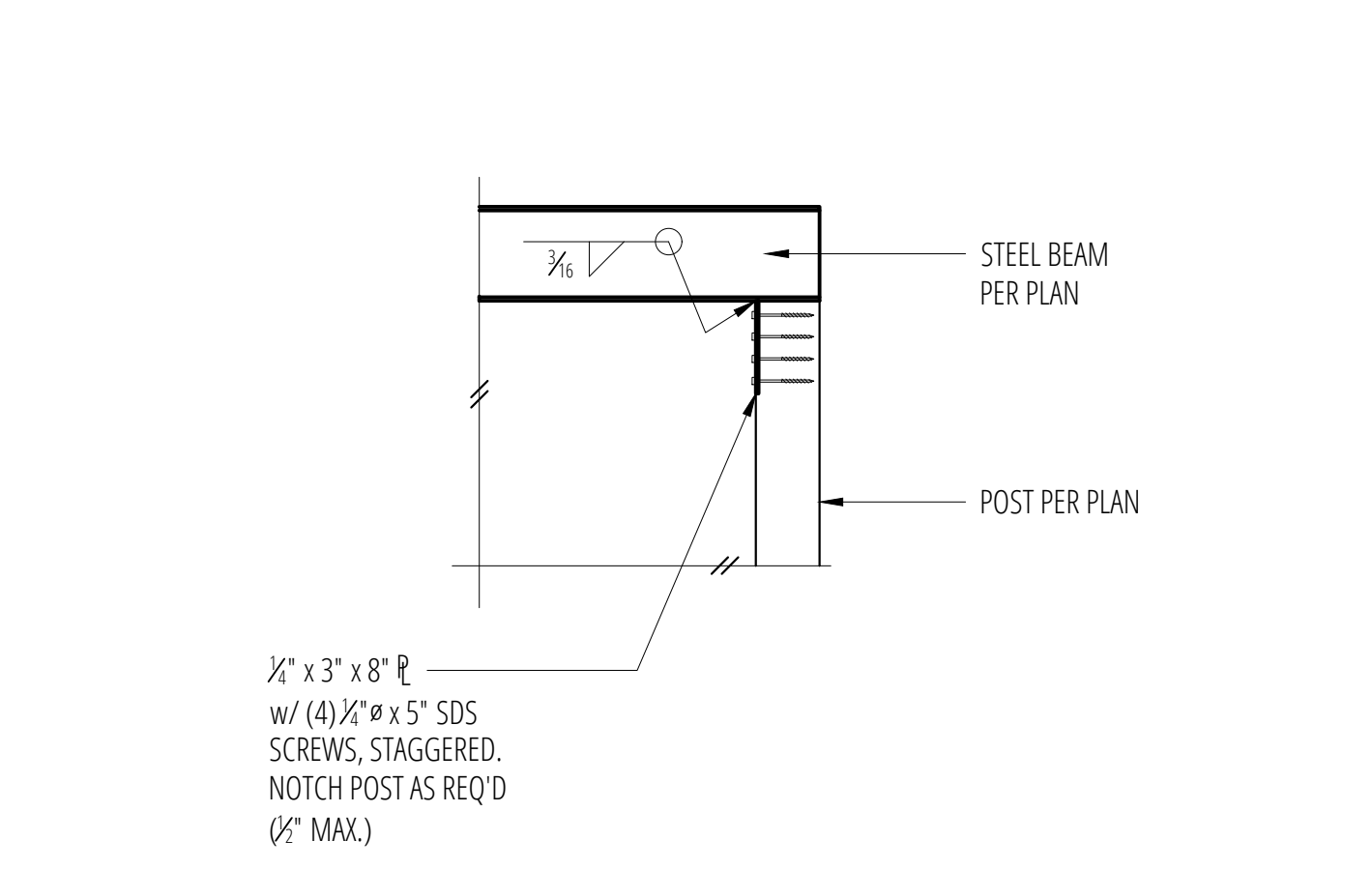
3 Joists Hung from Steel Beam (w/TJI's)
SCALE: 3/4"=1'-0"



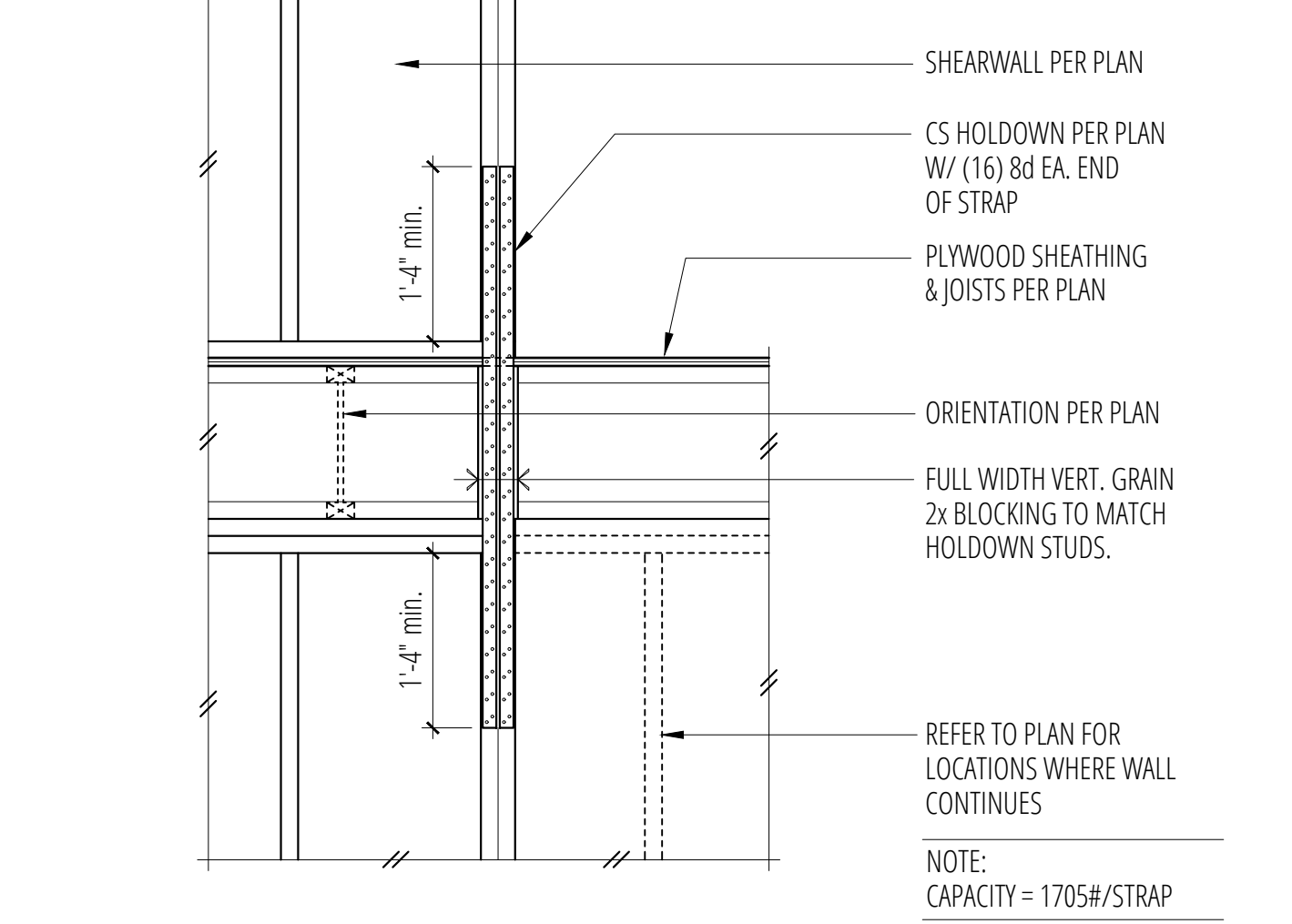
4 Perpendicular Framing at Exterior walls
SCALE: 3/4"=1'-0"



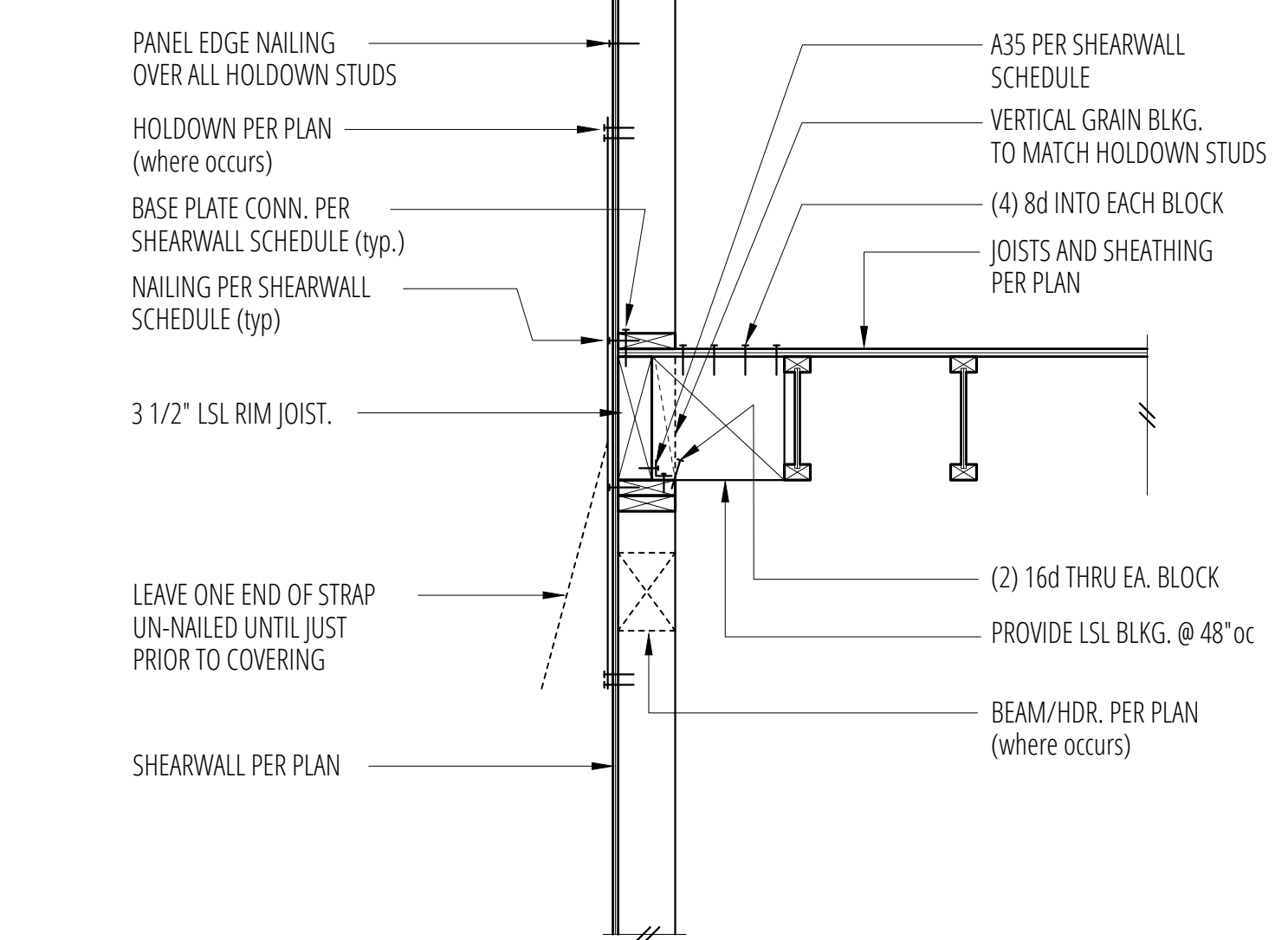
5 SSW Over Steel Beam
SCALE: 3/4"=1'-0"



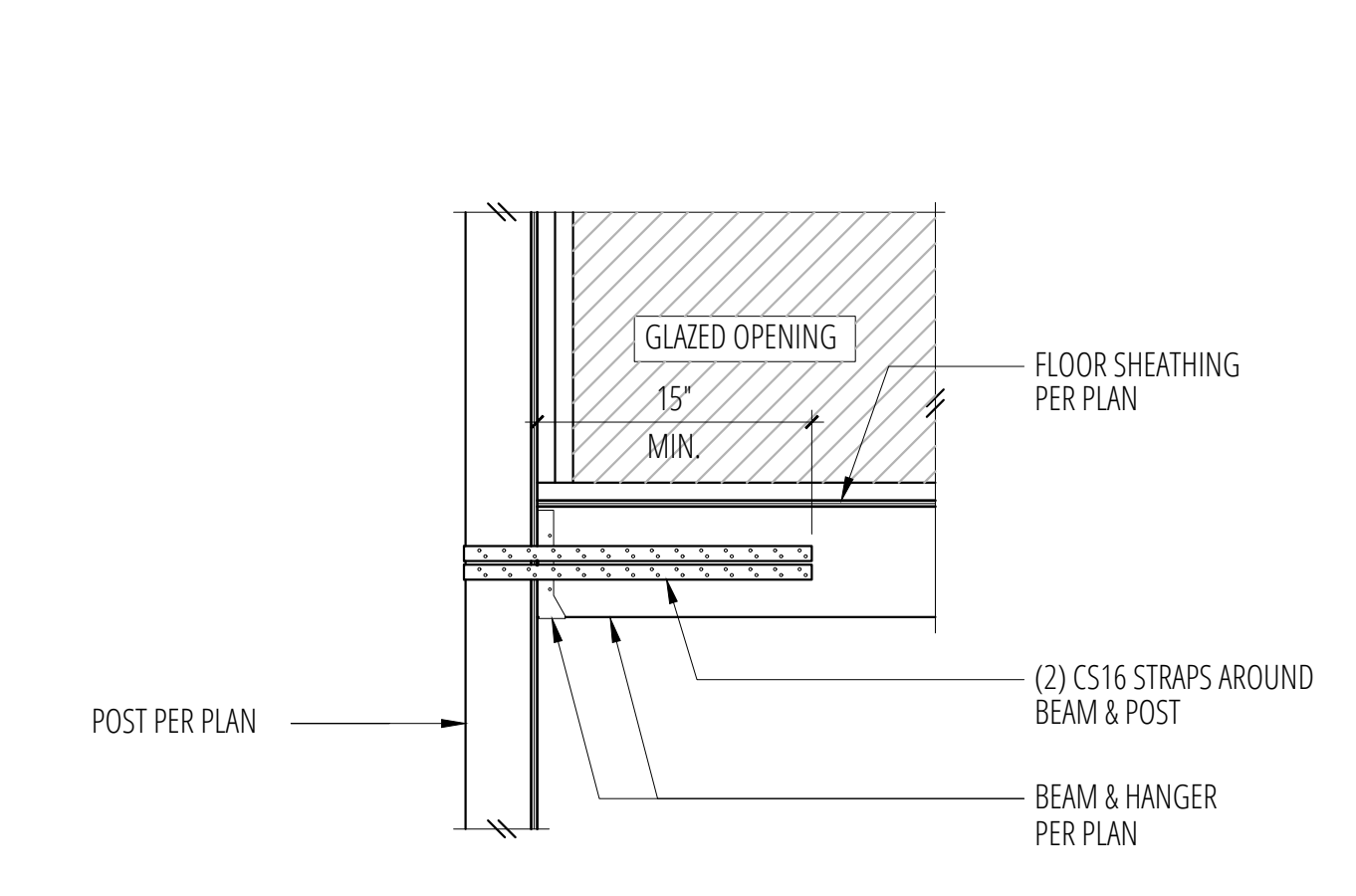
6 Bearing Condition at Steel Floor Beam
SCALE: 3/4"=1'-0"



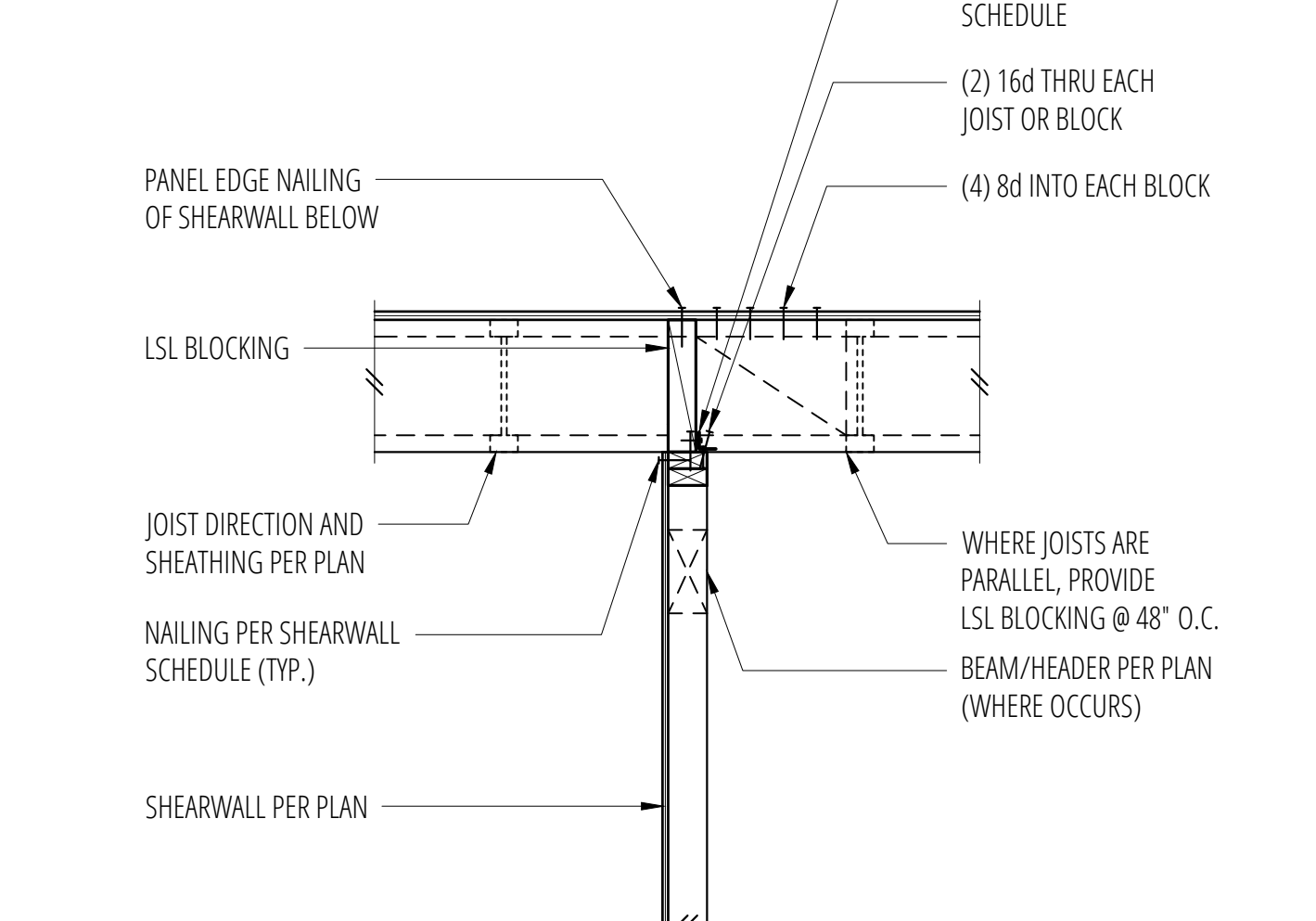
7 Typical CS16 Holdown Strap
SCALE: 3/4"=1'-0"



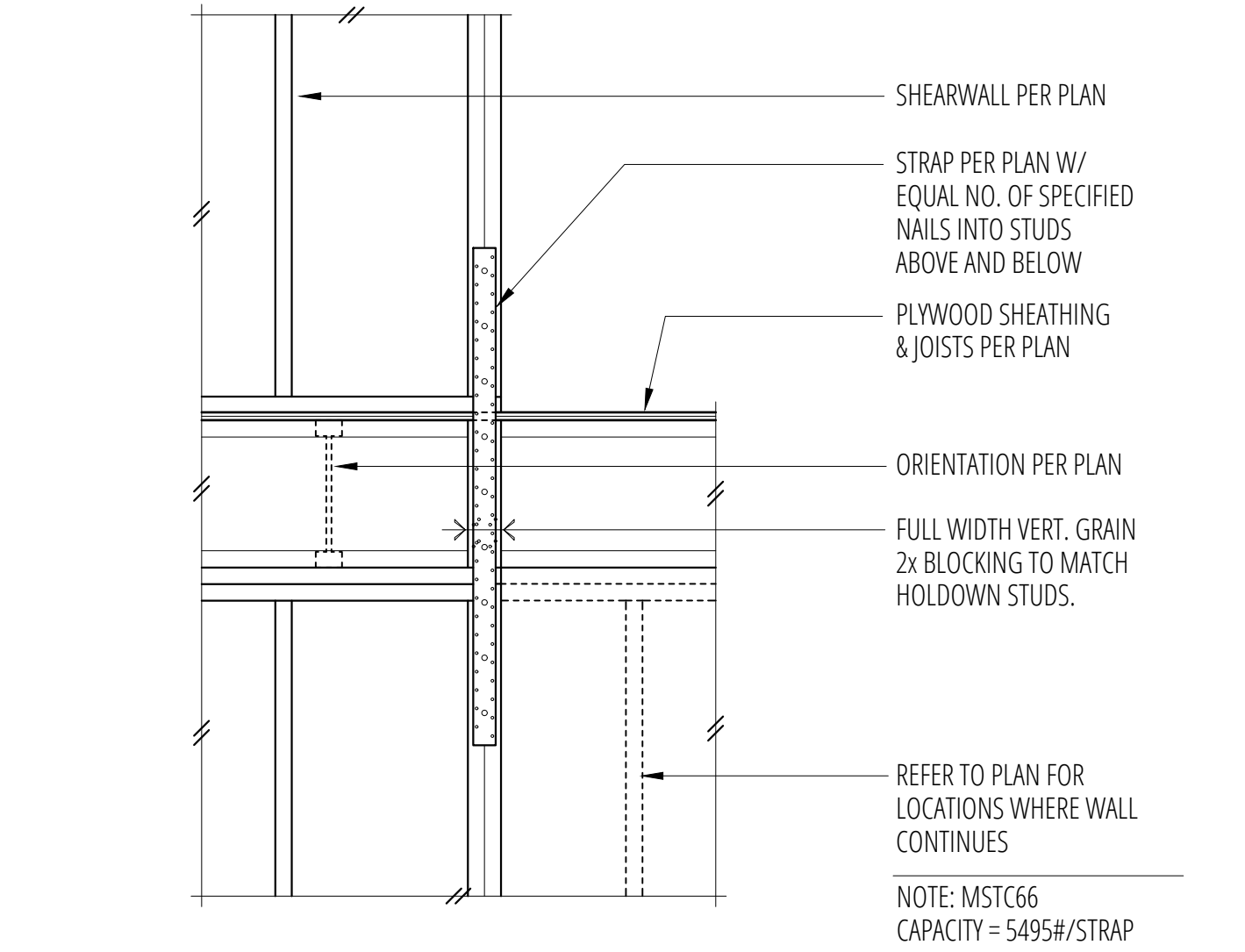
8 Parallel Framing at Exterior Walls
SCALE: 3/4"=1'-0"



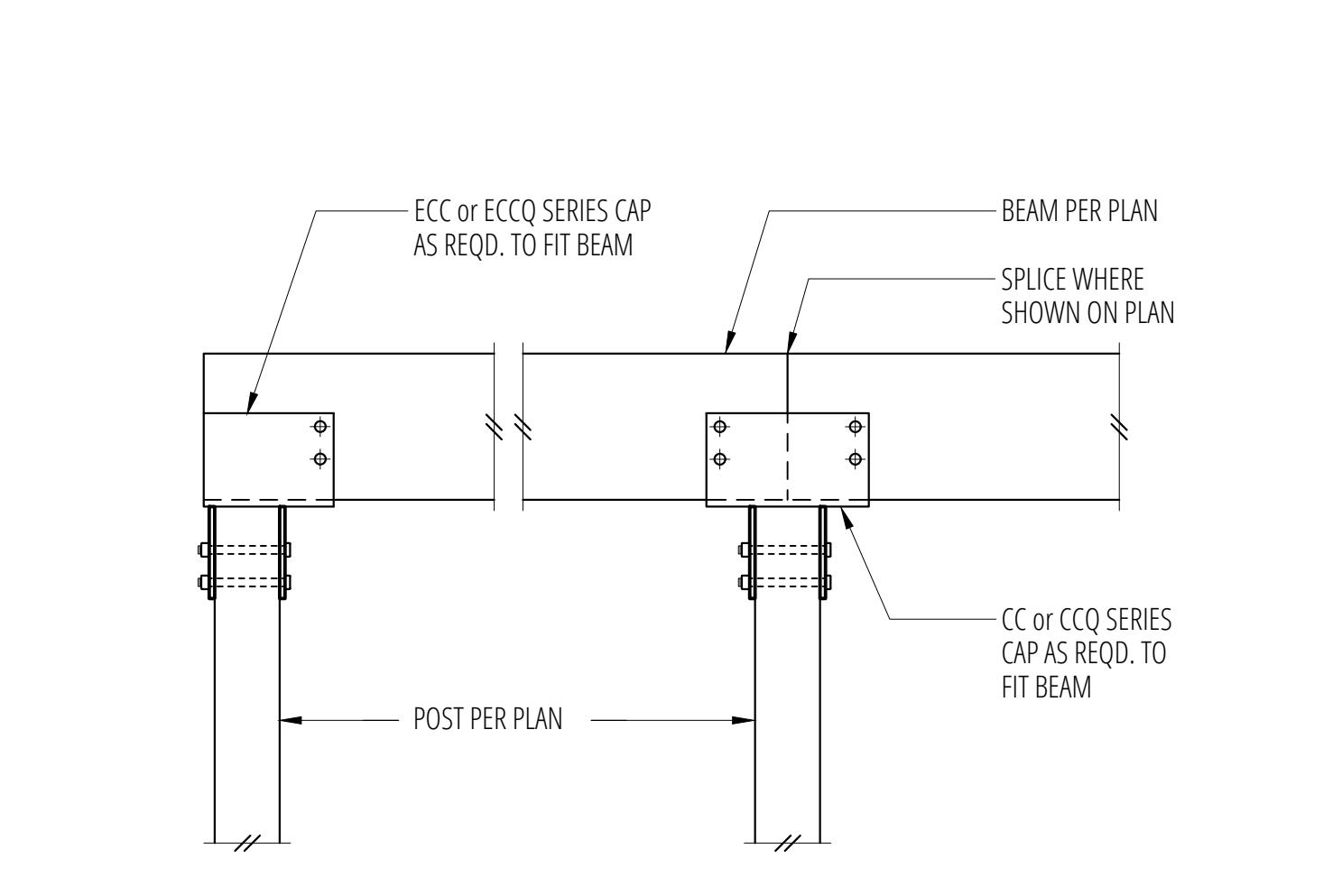
9 Strapping at Floor Beam
SCALE: 3/4"=1'-0"



10 Interior Shearwall Below (w/TJI's)
SCALE: 3/4"=1'-0"



11 Typical MST/MSTC Strap
SCALE: 3/4"=1'-0"

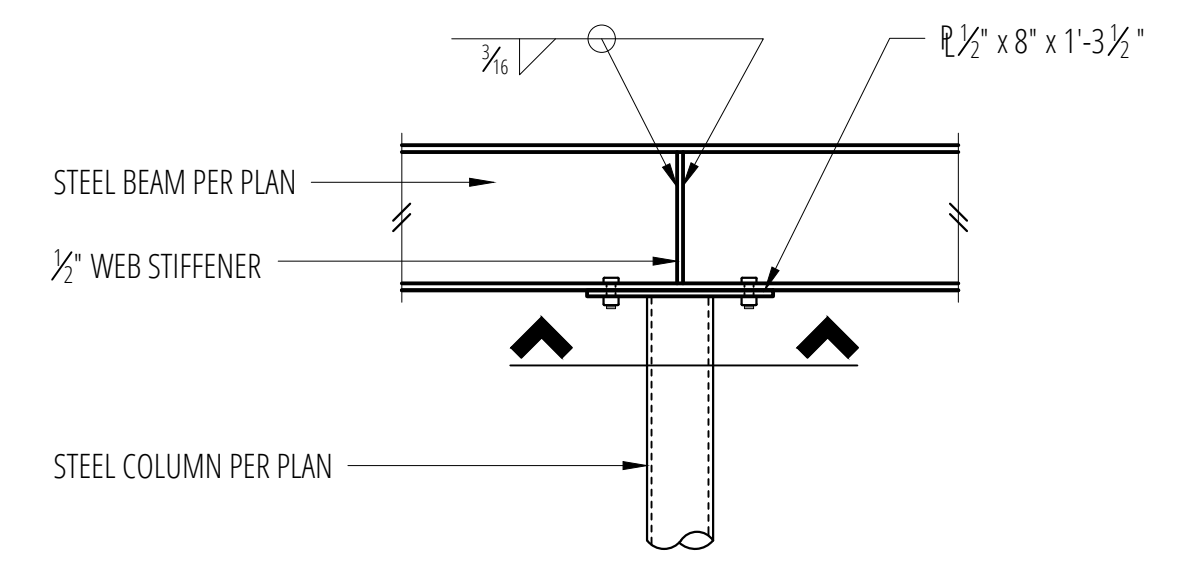
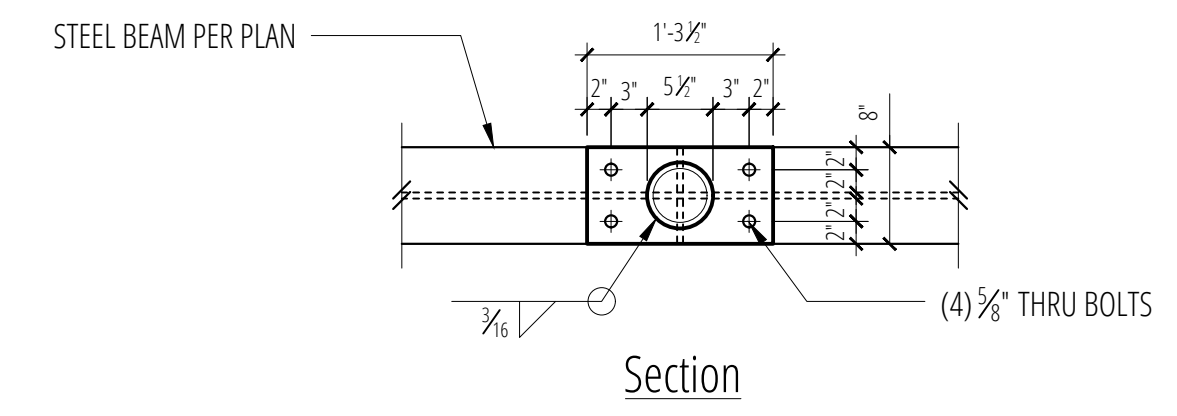


12 CC/CCQ Series Connection
SCALE: 3/4"=1'-0"

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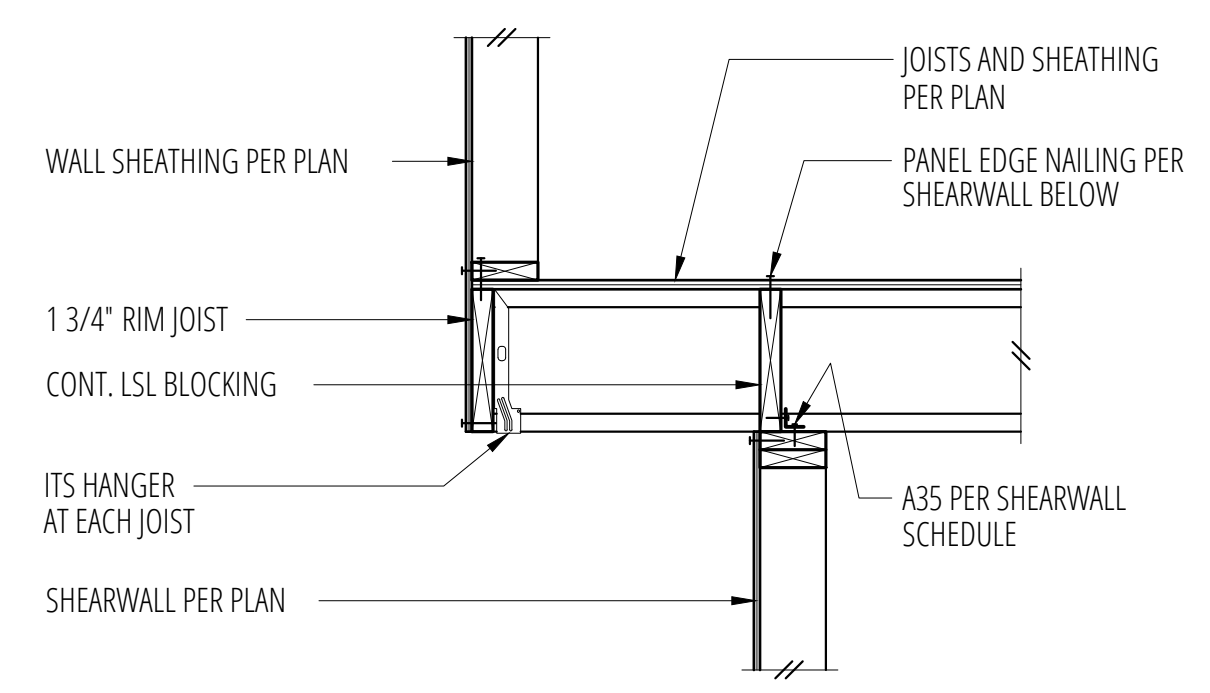
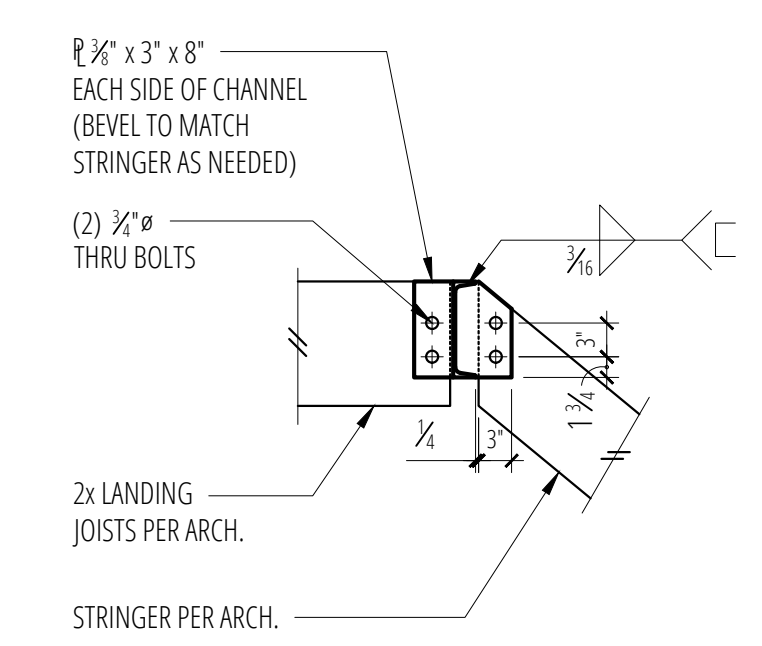


4 Steel Column Support at Steel Beam
SCALE: 3/4"=1'-0"

1 SCALE: 3/4"=1'-0"

2 SCALE: 3/4"=1'-0"

3 SCALE: 3/4"=1'-0"

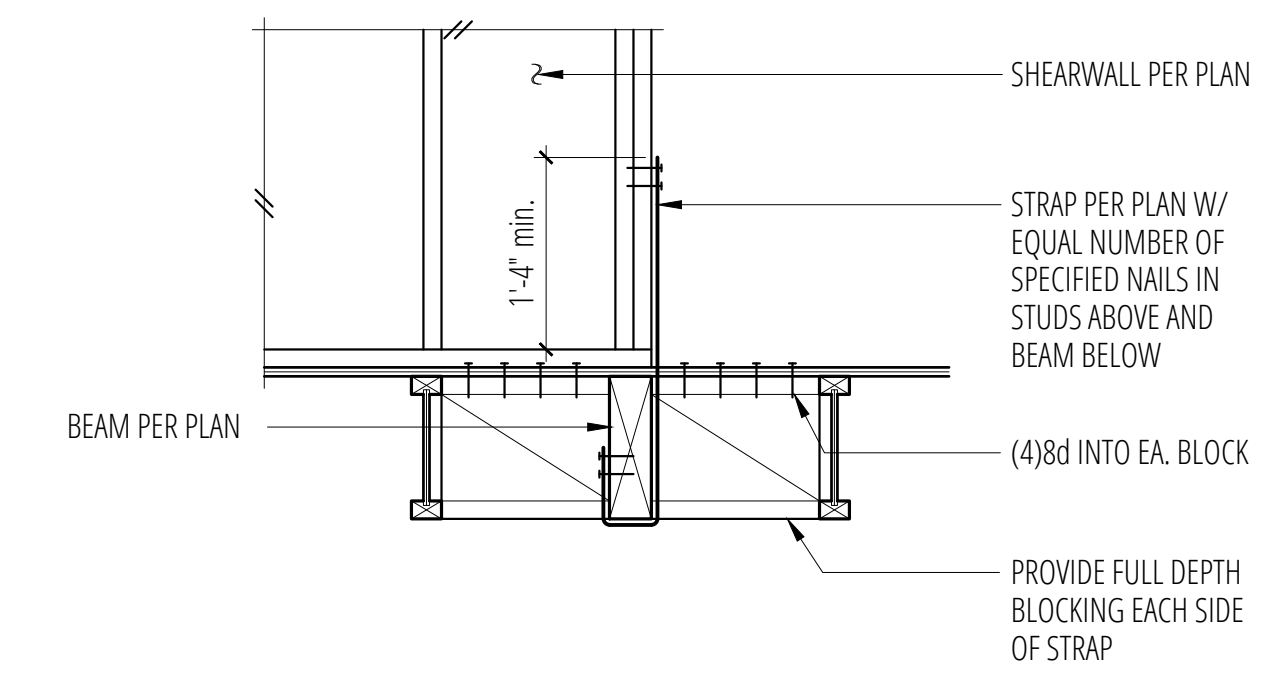
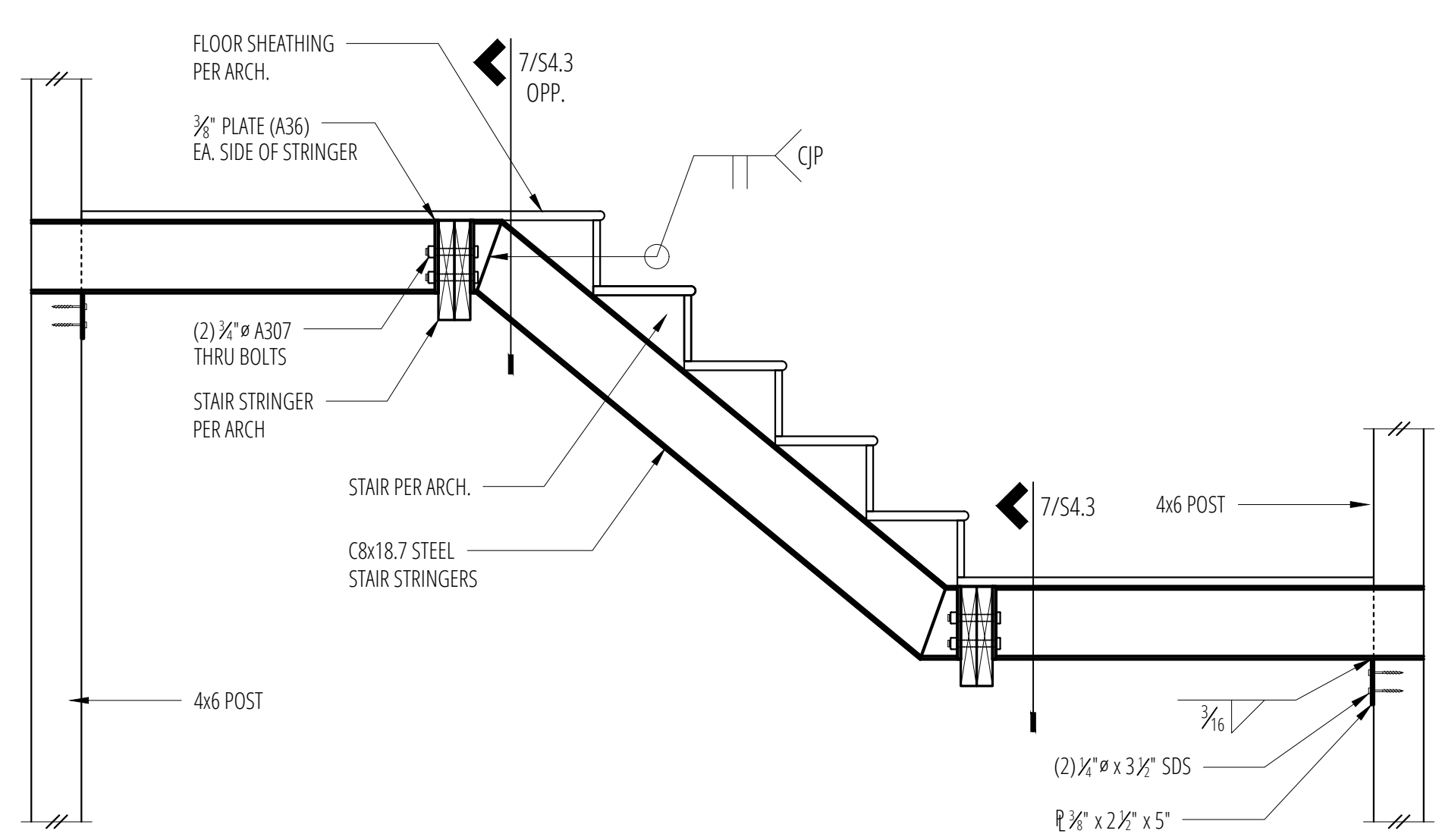


8 Cantilever at Exterior Wall
SCALE: 3/4"=1'-0"

5 SCALE: 3/4"=1'-0"

6 SCALE: 3/4"=1'-0"

7 Stringer and Landing Connection
SCALE: 3/4"=1'-0"



12 Holdown at Floor Beam (w/TJI)
SCALE: 3/4"=1'-0"

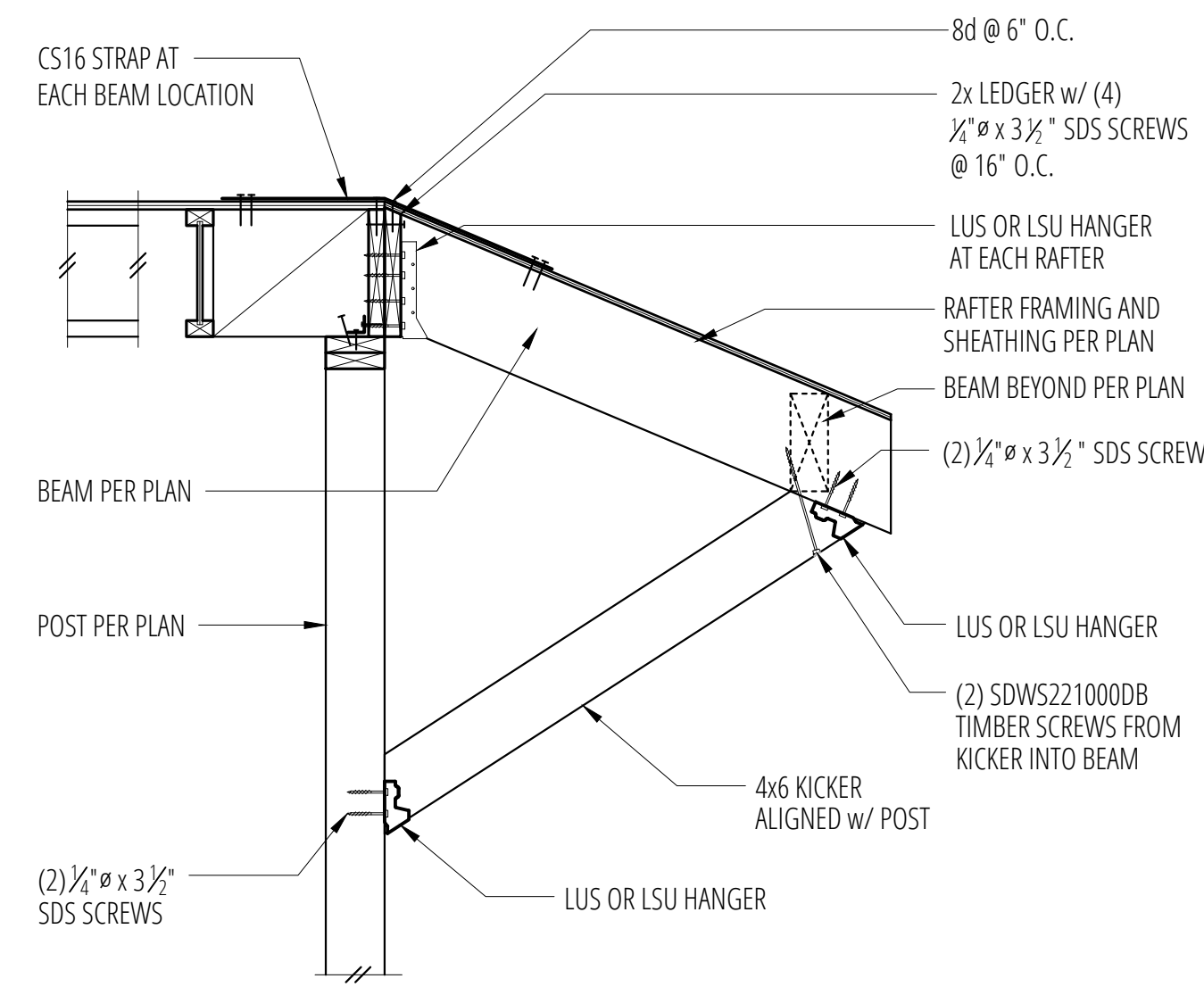
9 SCALE: 3/4"=1'-0"

11 Bent Steel Stair Stringer
SCALE: 3/4"=1'-0"

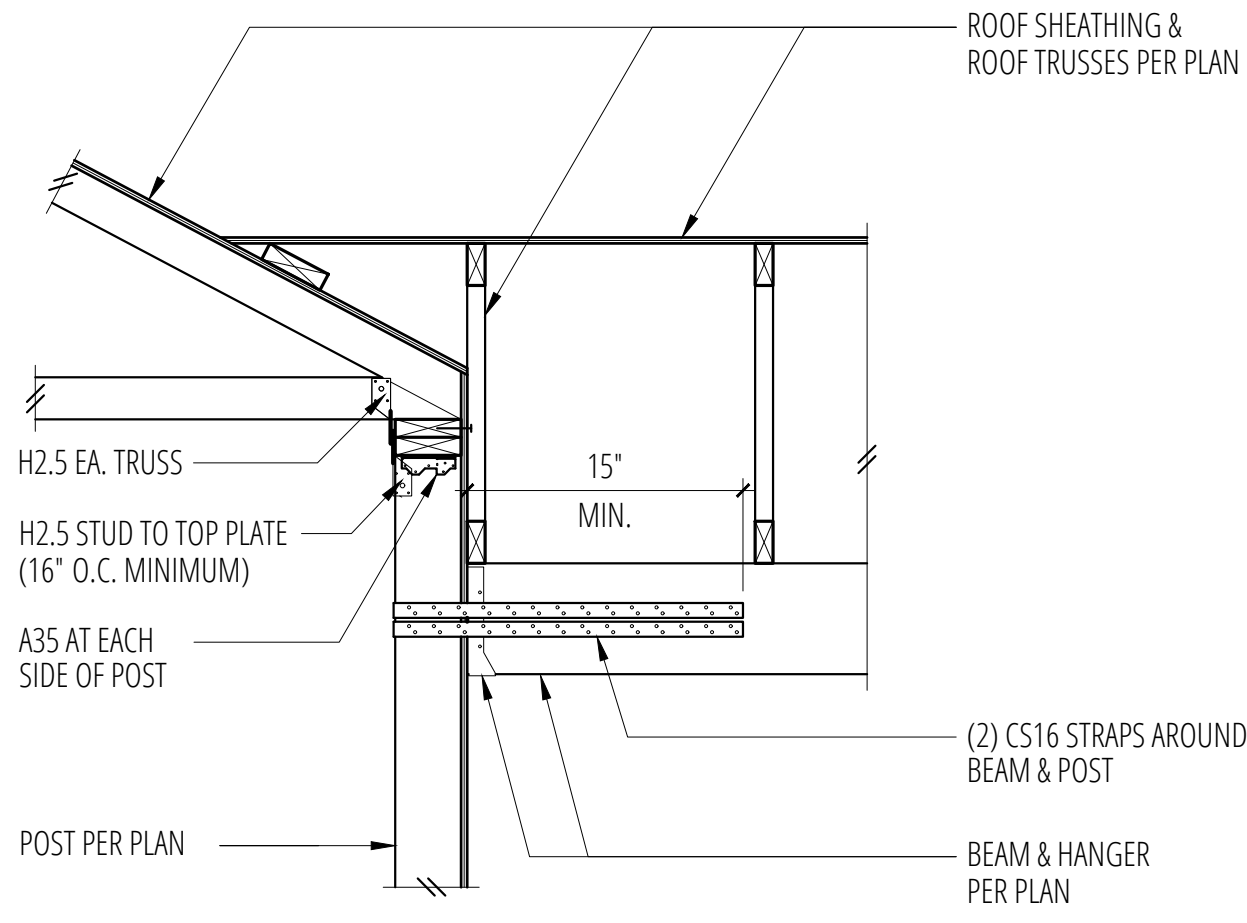
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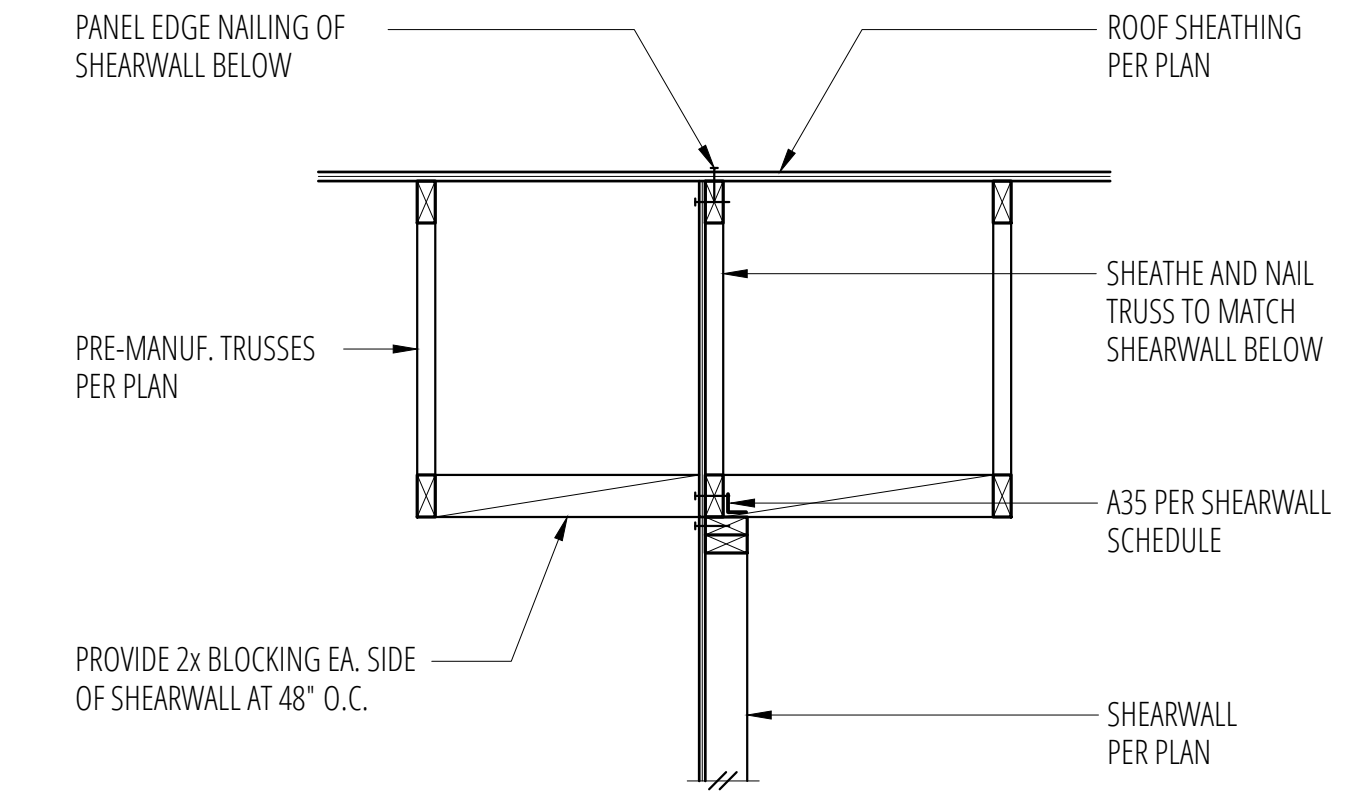
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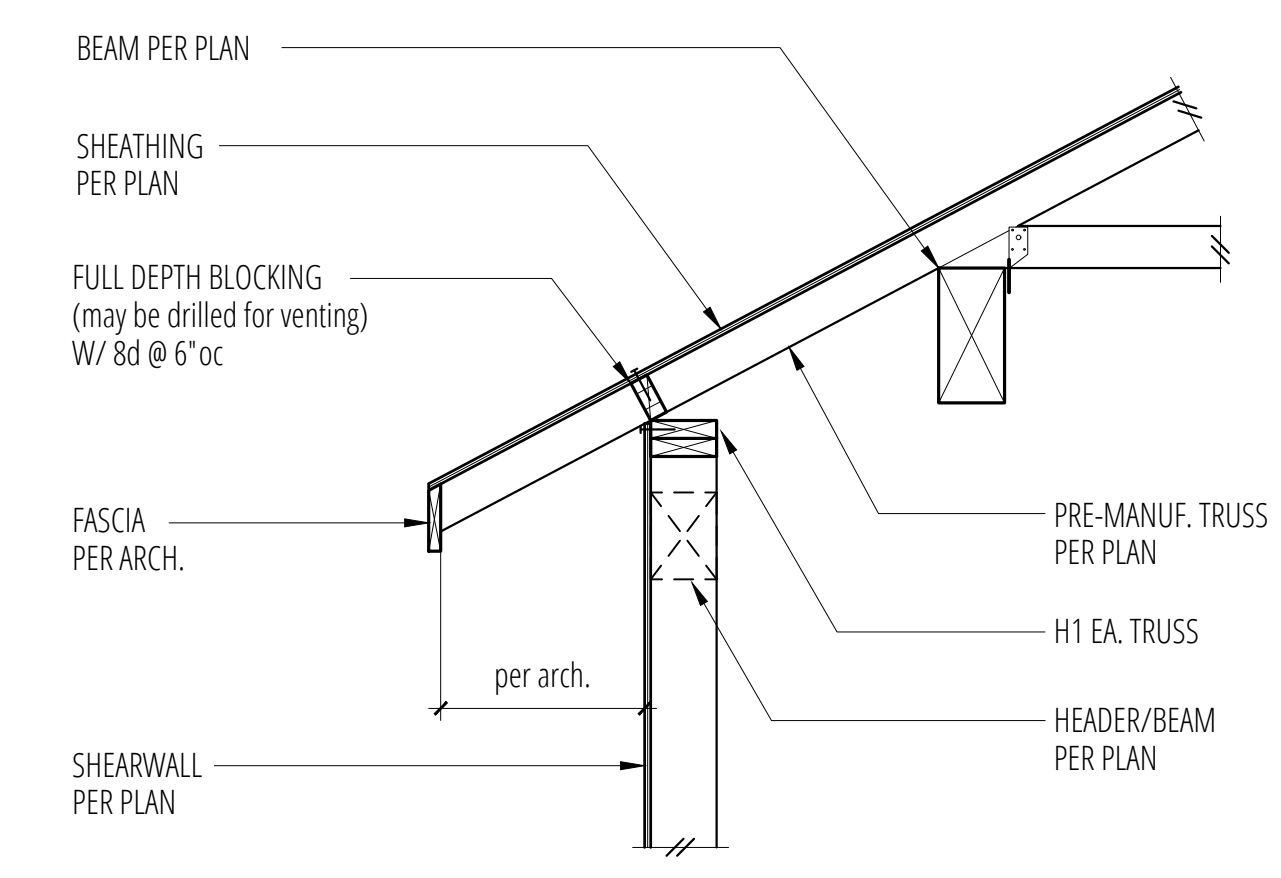
2 Canopy Kneebrace
SCALE: 3/4"=1'-0"



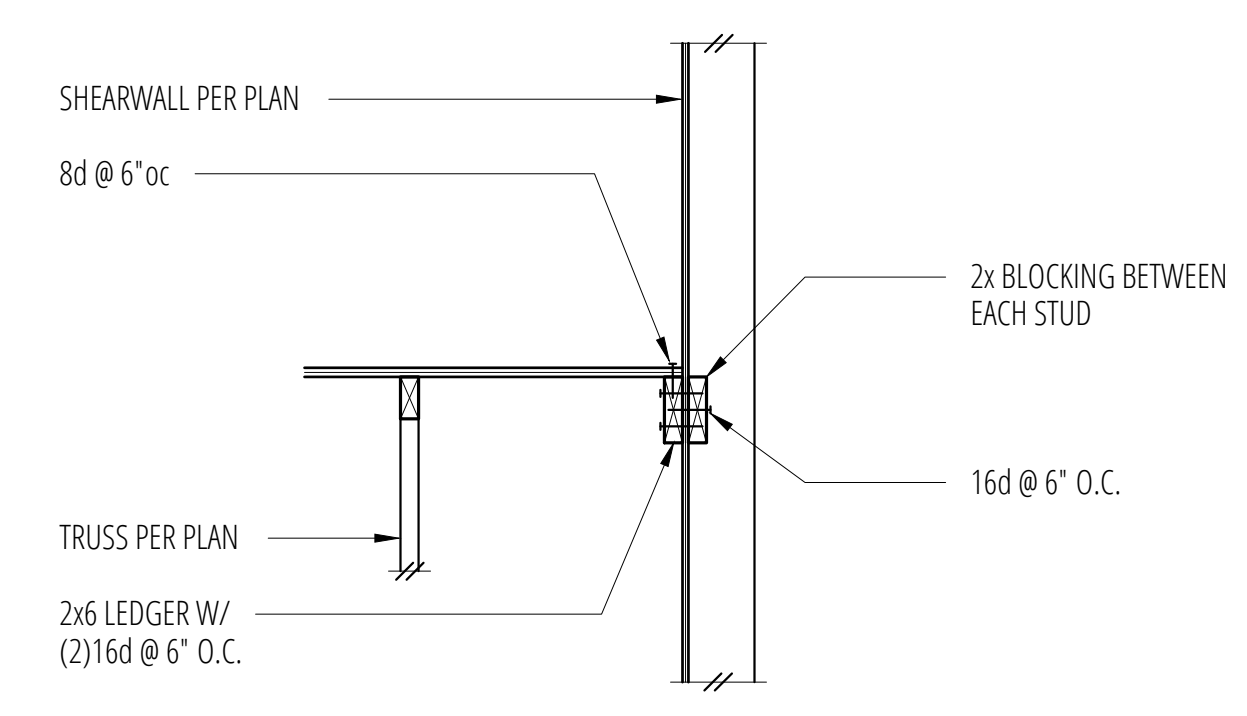
3 Strapping at Roof Beam
SCALE: 3/4"=1'-0"



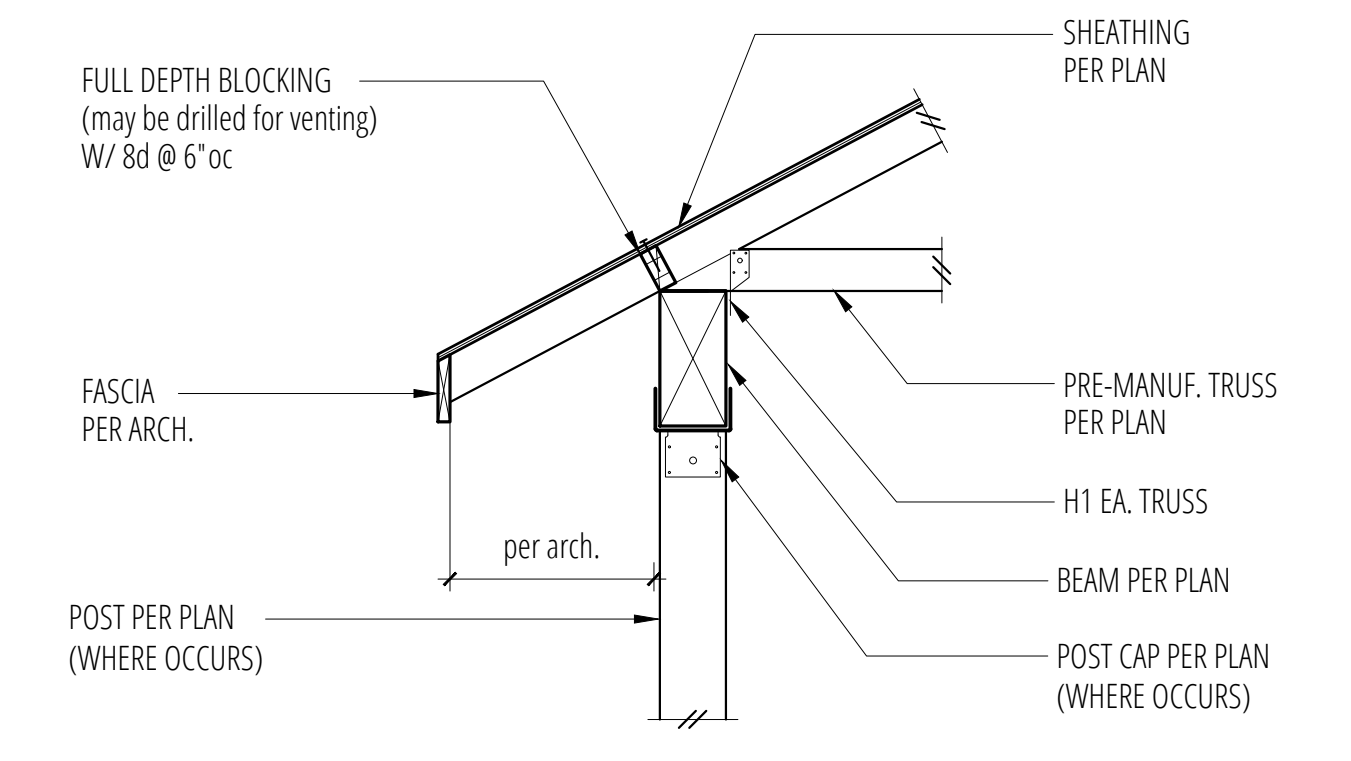
4 Shearwall Extension Through Truss Depth
SCALE: 3/4"=1'-0"



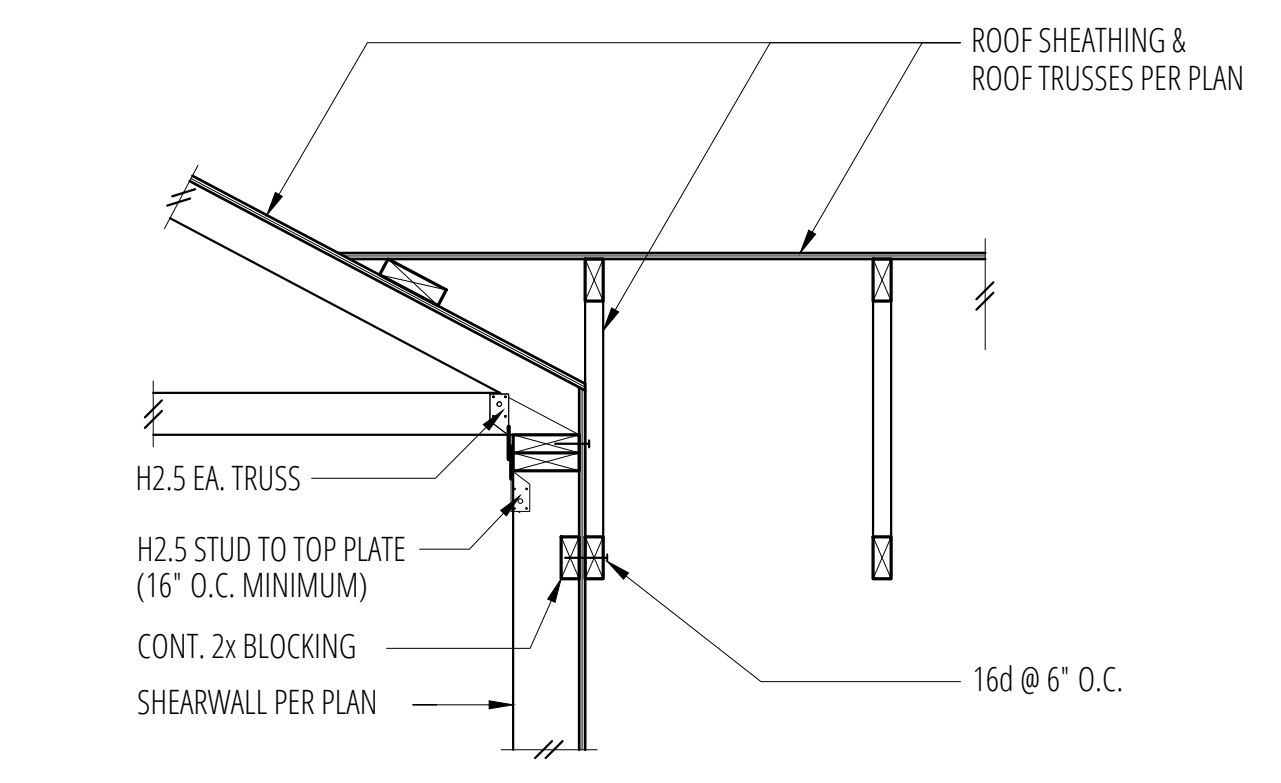
5 Extended Tail Truss at Exterior Wall
SCALE: 3/4"=1'-0"



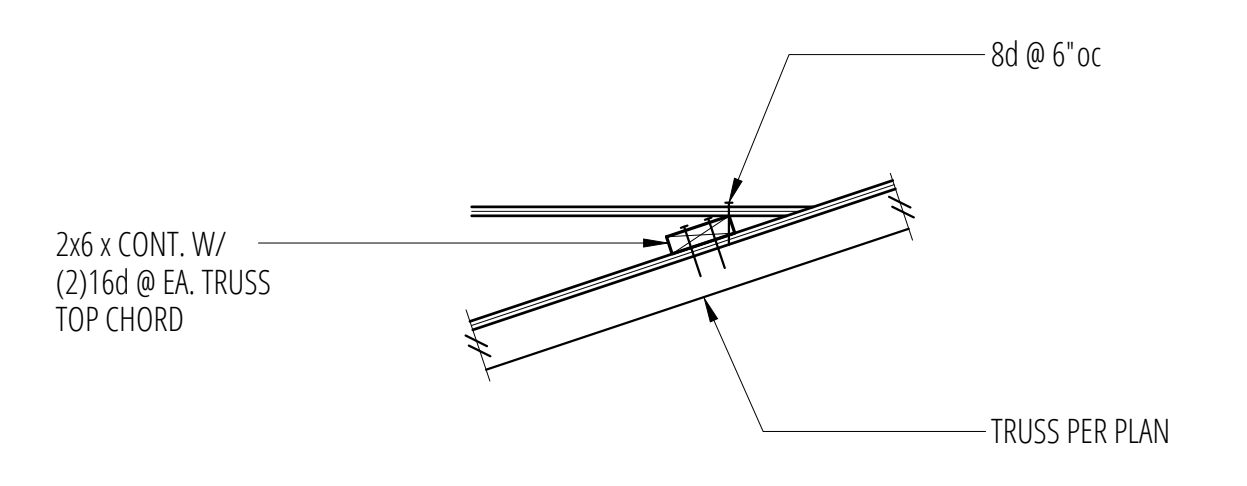
6 Trusses Parallel to Exterior Wall
SCALE: 3/4"=1'-0"



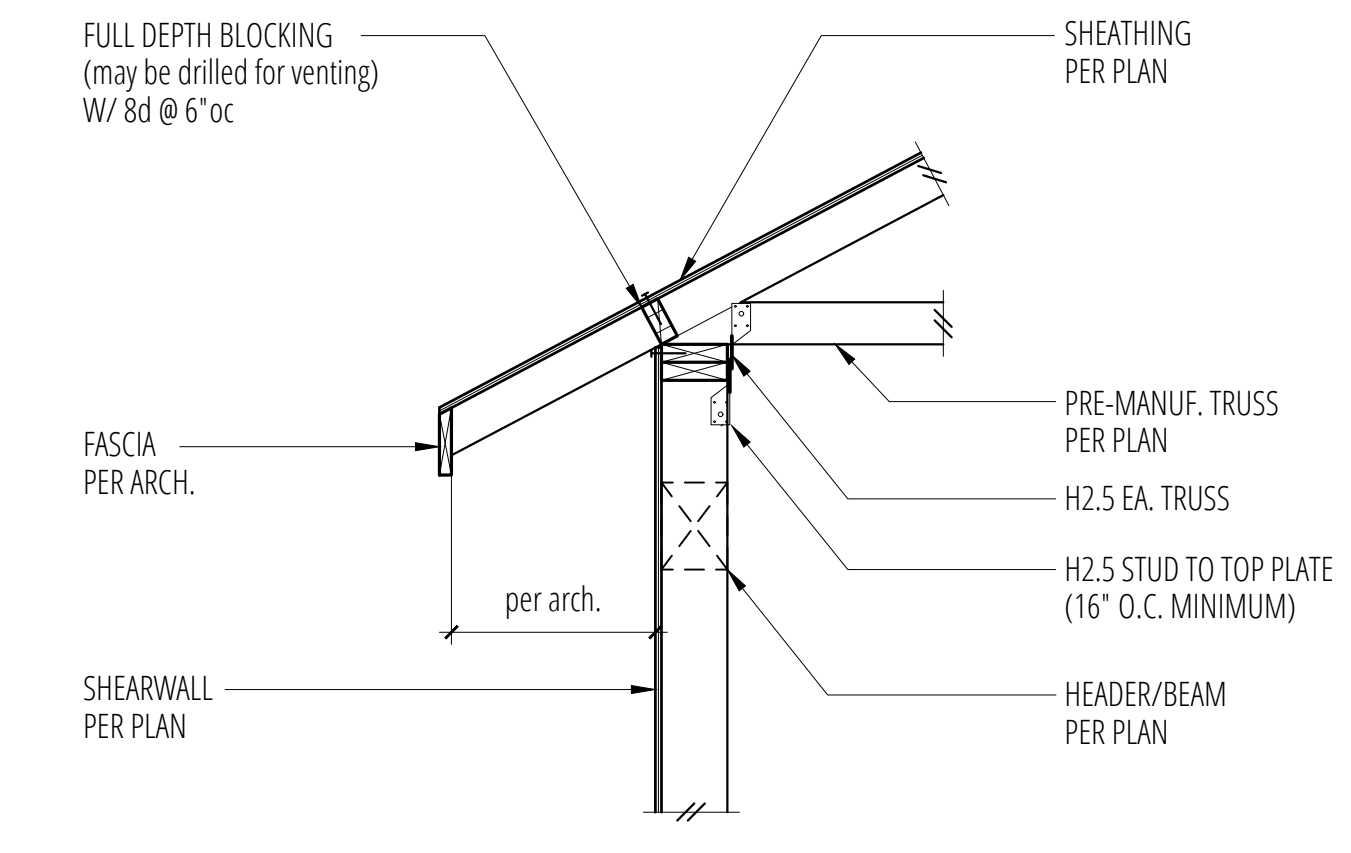
7 Beam & Post at Roof
SCALE: 3/4"=1'-0"



8 Change in Roof Height
SCALE: 3/4"=1'-0"



9 Overframing Connection
SCALE: 3/4"=1'-0"



10 Exterior Bearing Wall at Roof
SCALE: 3/4"=1'-0"

No.	Date	Issue
	7/13/17	Permit
1	3/12/18	Corrections

Sheet Contents
Roof Framing Details

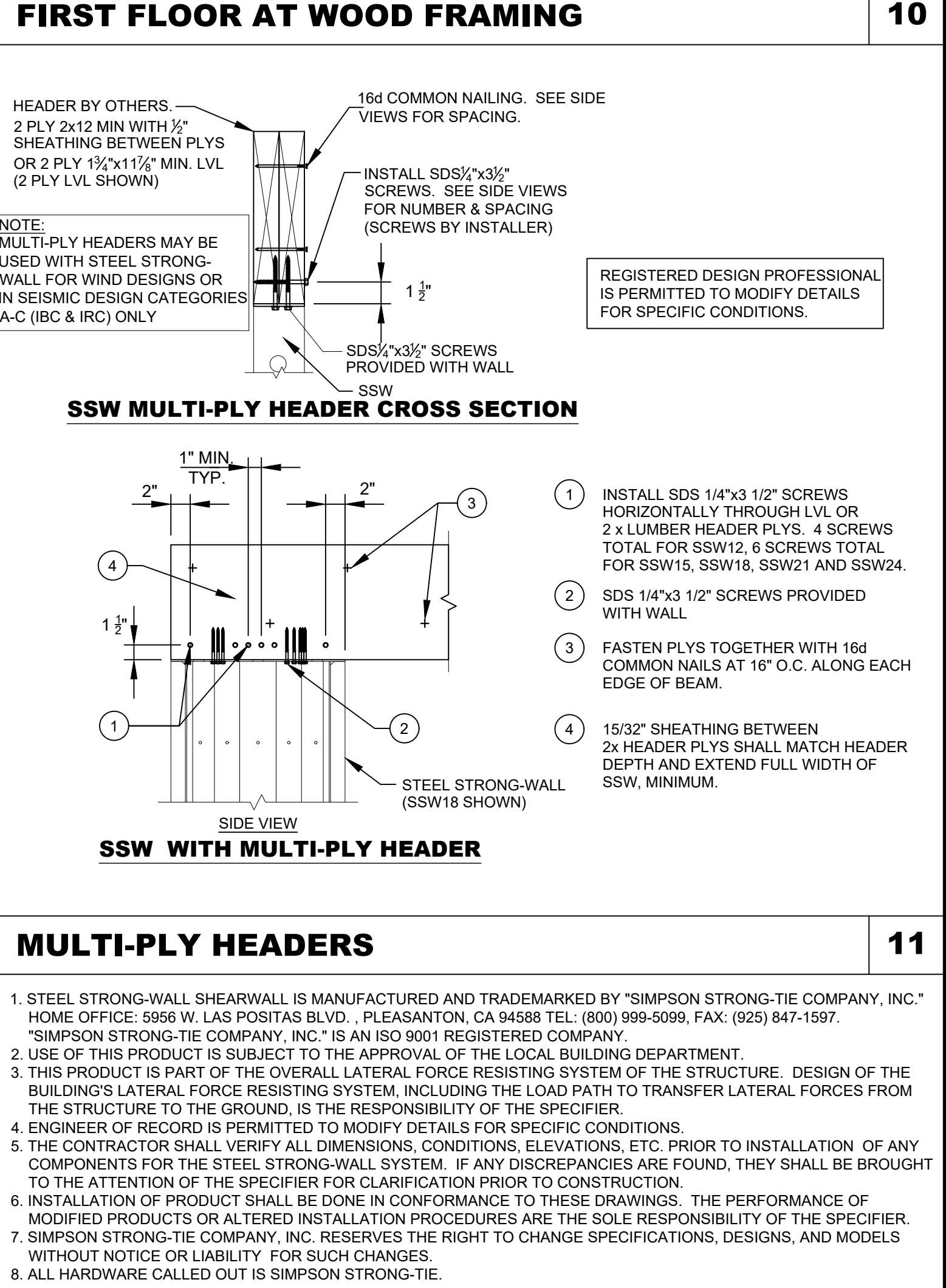
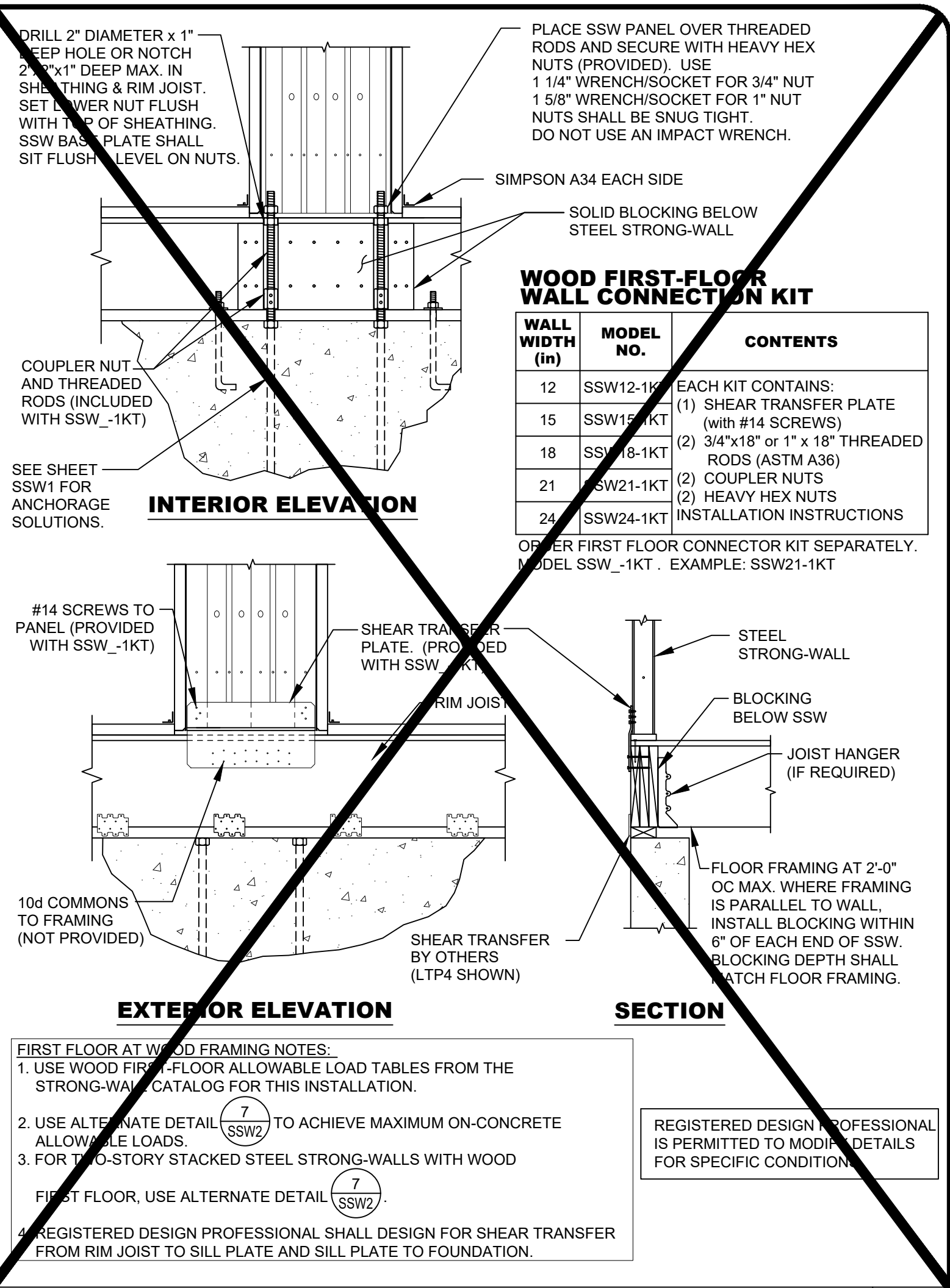
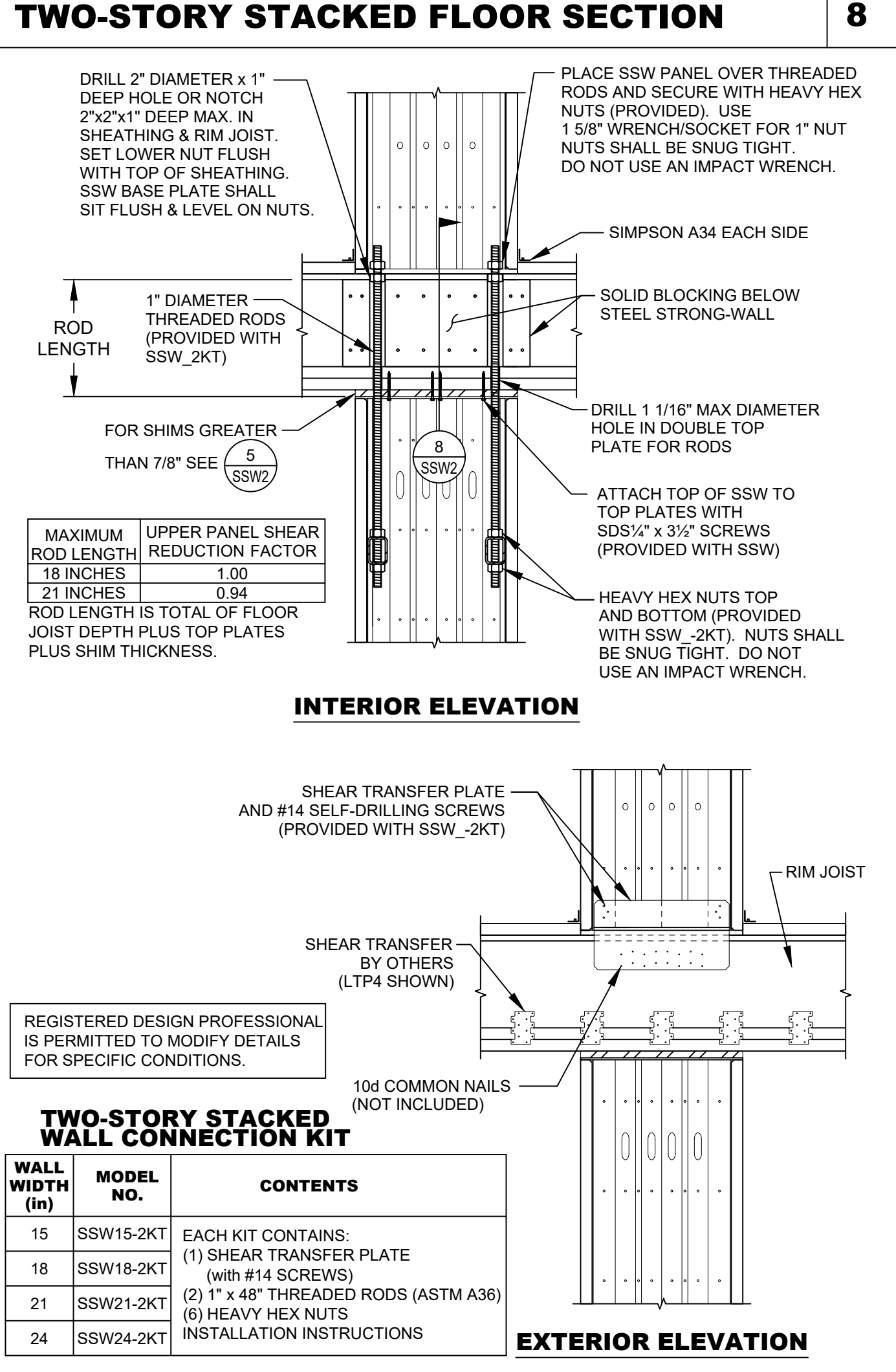
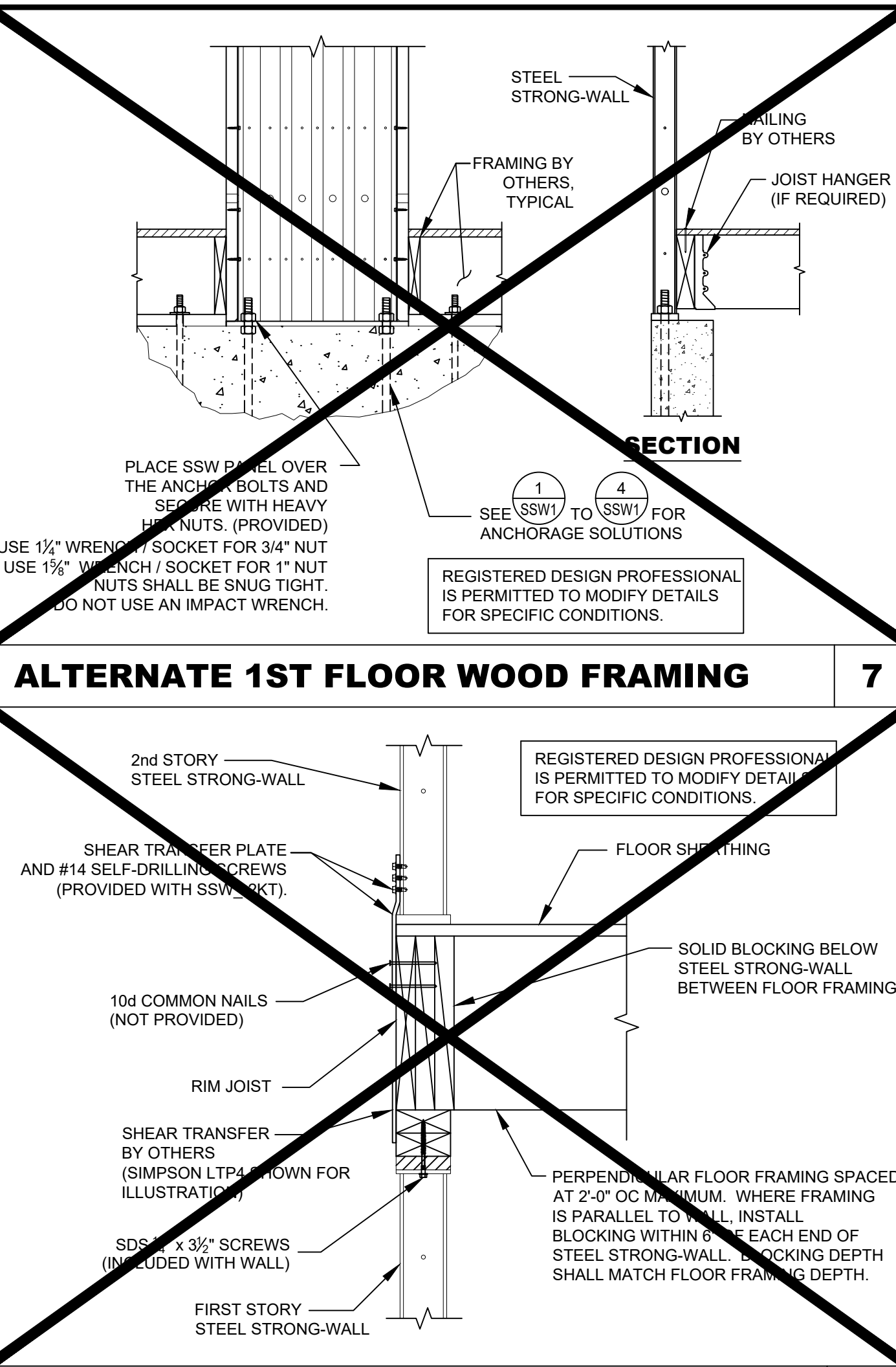
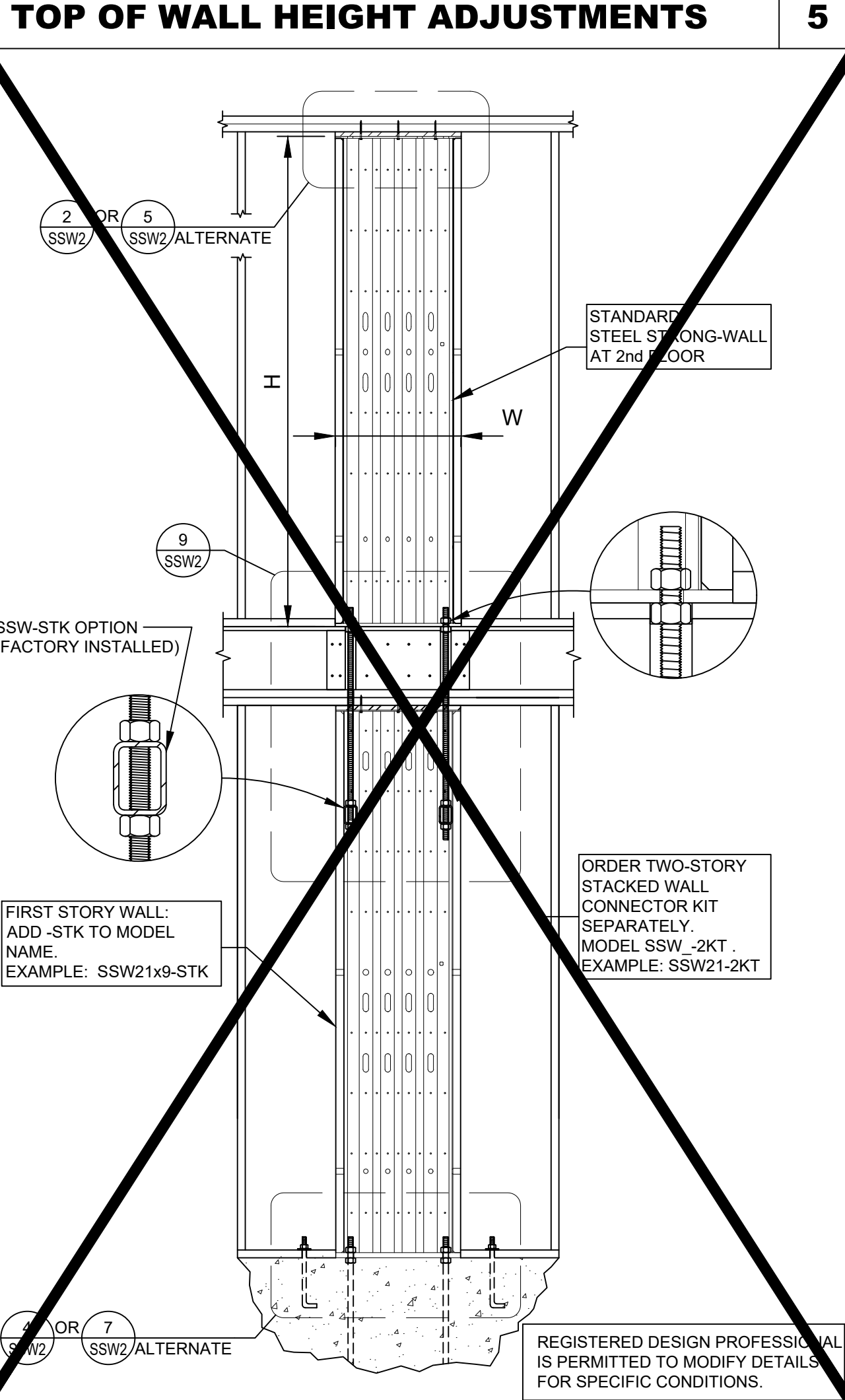
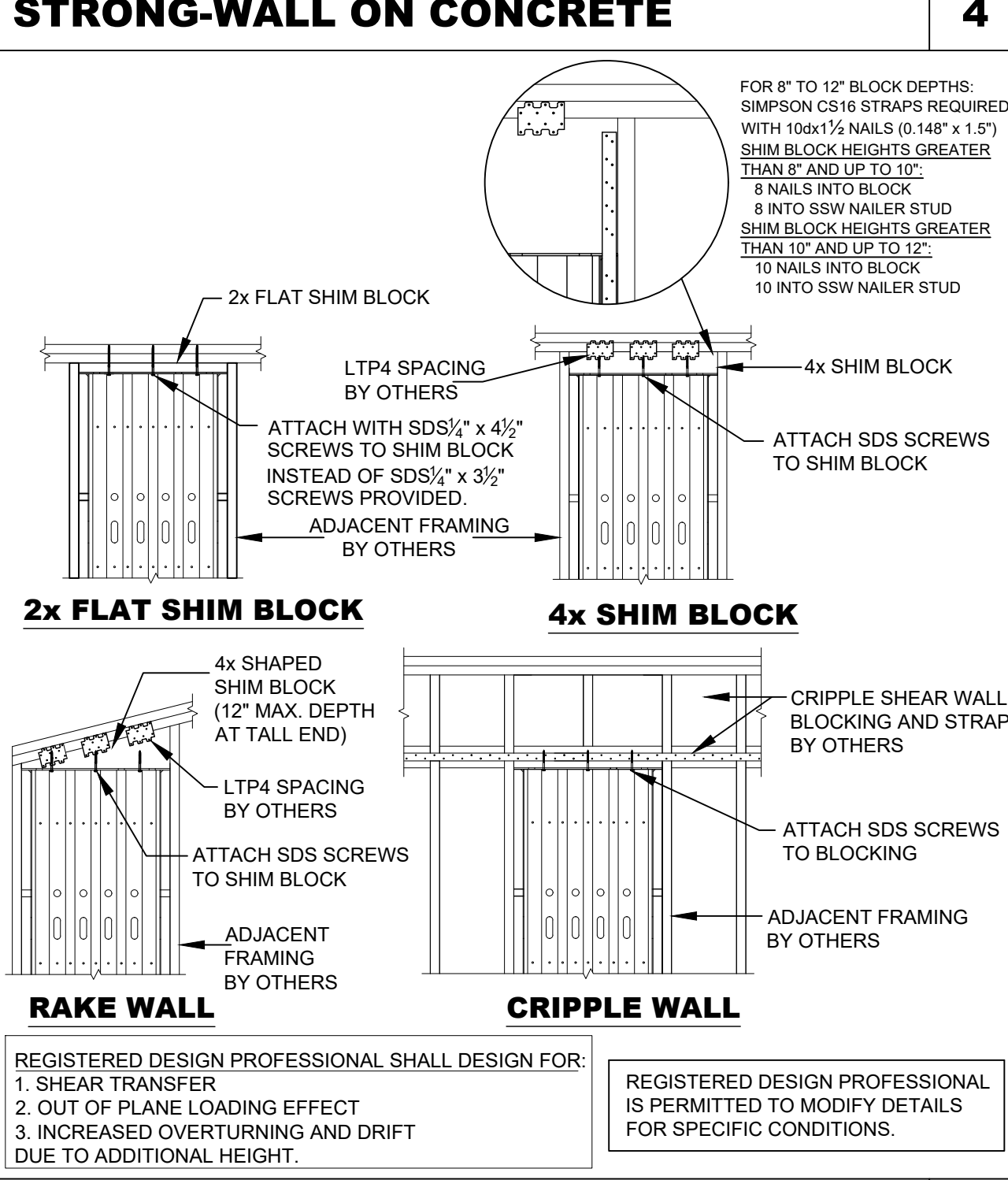
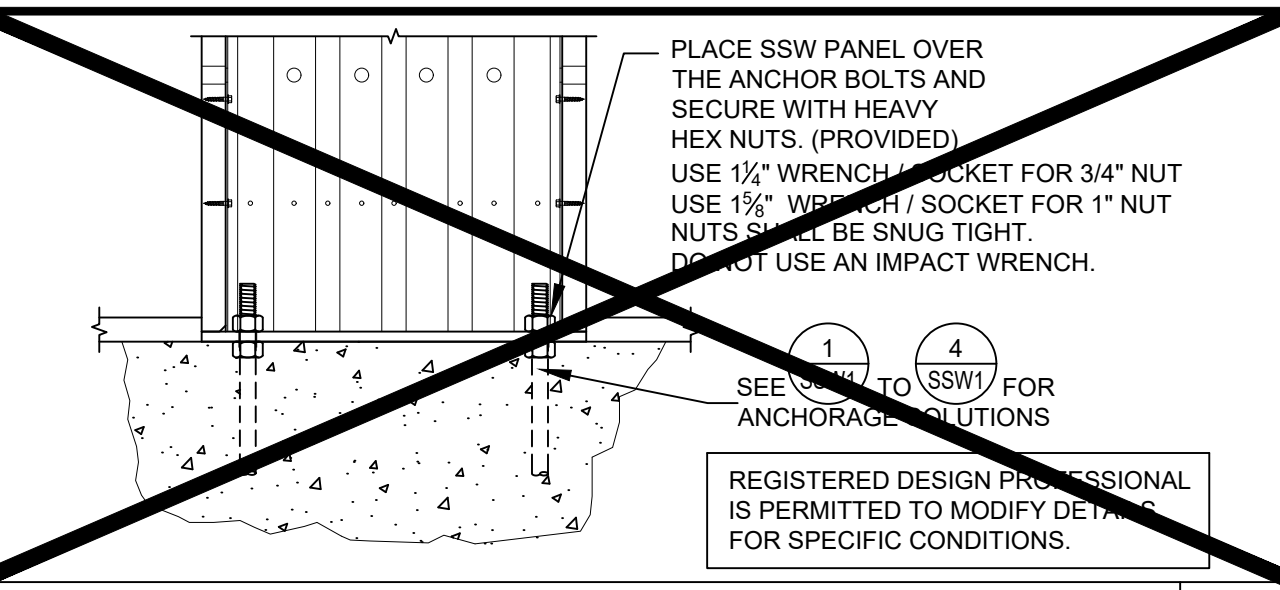
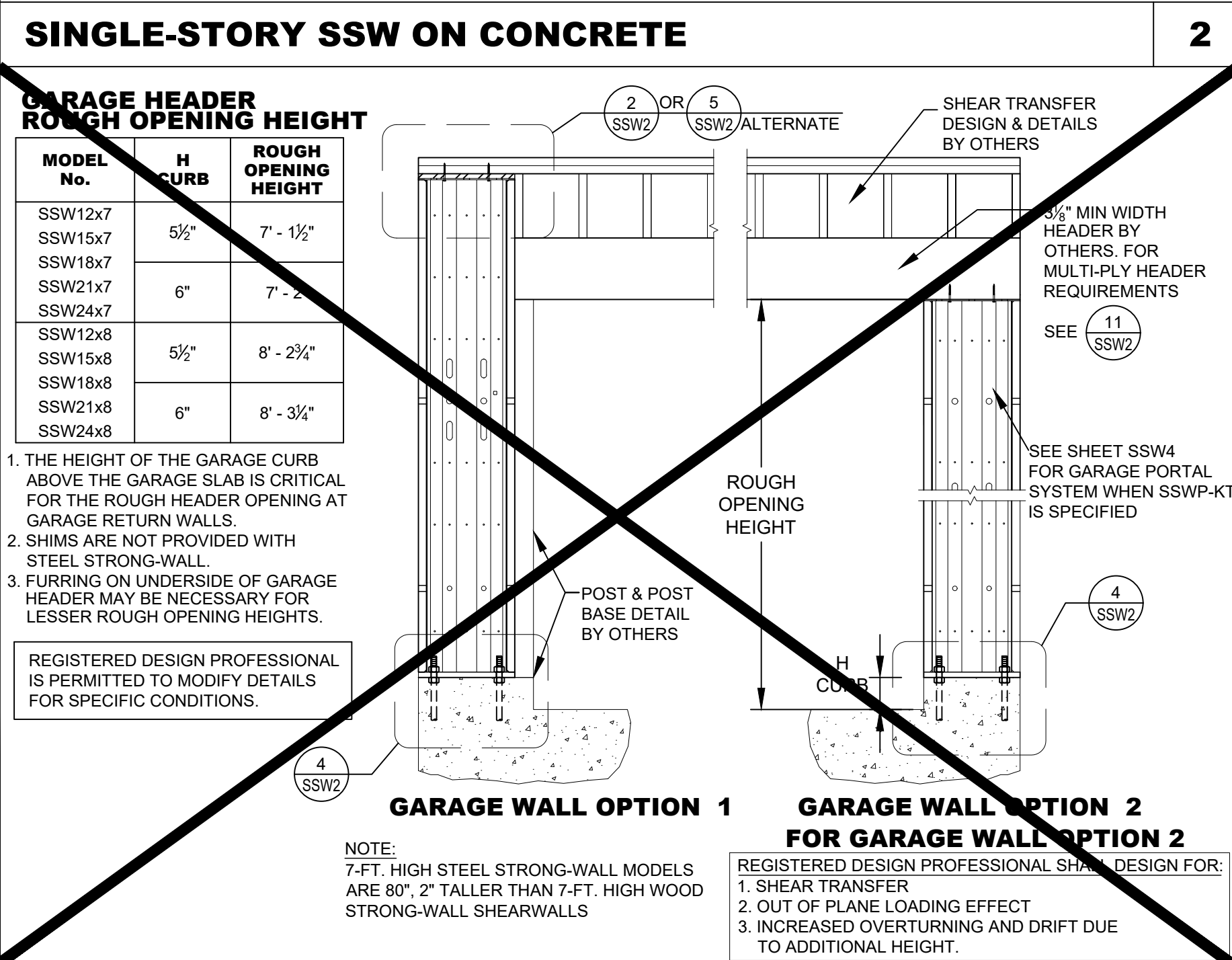
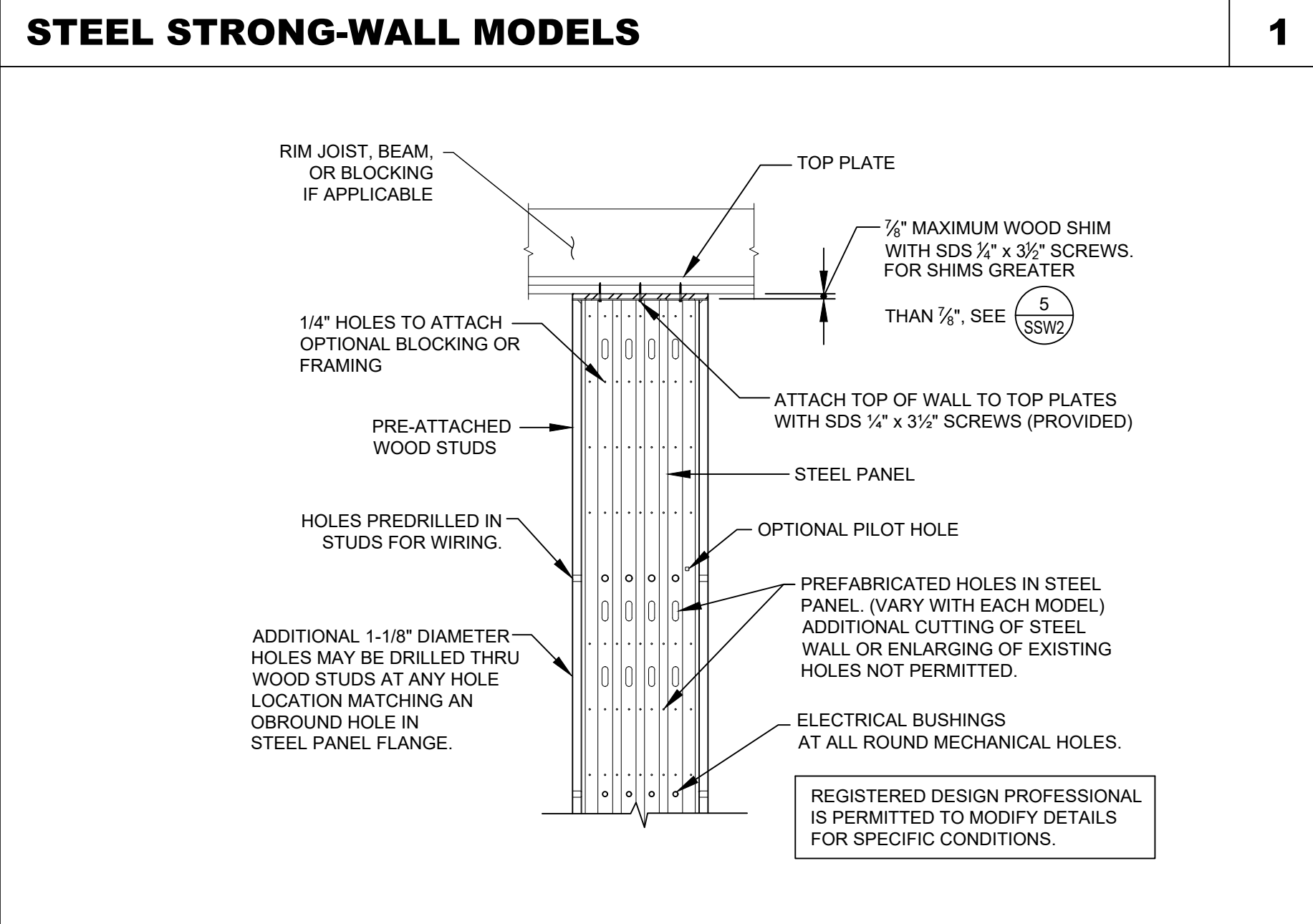
Sheet No.

STEEL STRONG-WALL MODELS

STD. WALL MODEL NO.	-STK WALL MODEL NO.	H (in)	T (in)	HOLD-DOWN ANCHOR BOLTS*	QTY. OF TOP OF WALL SCREWS
SSW12x7	--	80	3 1/2	(2) 3/4"	4
SSW15x7	--	80	3 1/2	(2) 1"	6
SSW18x7	--	80	3 1/2	(2) 1"	9
SSW21x7	--	80	3 1/2	(2) 1"	12
SSW24x7	--	80	3 1/2	(2) 1"	14
SSW12x7.4	--	85 1/2	3 1/2	(2) 3/4"	4
SSW15x7.4	--	85 1/2	3 1/2	(2) 1"	6
SSW18x7.4	--	85 1/2	3 1/2	(2) 1"	9
SSW21x7.4	--	85 1/2	3 1/2	(2) 1"	12
SSW24x7.4	--	85 1/2	3 1/2	(2) 1"	14
SSW12x8	--	93 1/4	3 1/2	(2) 3/4"	4
SSW15x8	--	93 1/4	3 1/2	(2) 1"	6
SSW18x8	--	93 1/4	3 1/2	(2) 1"	9
SSW21x8	--	93 1/4	3 1/2	(2) 1"	12
SSW24x8	--	93 1/4	3 1/2	(2) 1"	14
SSW12x9	--	105 1/4	3 1/2	(2) 3/4"	4
SSW15x9	--	105 1/4	3 1/2	(2) 1"	6
SSW18x9	--	105 1/4	3 1/2	(2) 1"	9
SSW21x9	--	105 1/4	3 1/2	(2) 1"	12
SSW24x9	--	105 1/4	3 1/2	(2) 1"	14
SSW12x10	--	117 1/4	3 1/2	(2) 3/4"	4
SSW15x10	--	117 1/4	3 1/2	(2) 1"	6
SSW18x10	--	117 1/4	3 1/2	(2) 1"	9
SSW21x10	--	117 1/4	3 1/2	(2) 1"	12
SSW24x10	--	117 1/4	3 1/2	(2) 1"	14
SSW15x11	--	129 1/4	5 1/2	(2) 1"	6
SSW18x11	--	129 1/4	5 1/2	(2) 1"	9
SSW21x11	--	129 1/4	5 1/2	(2) 1"	12
SSW24x11	--	129 1/4	5 1/2	(2) 1"	14
SSW15x12	--	141 1/4	5 1/2	(2) 1"	6
SSW18x12	--	141 1/4	5 1/2	(2) 1"	9
SSW21x12	--	141 1/4	5 1/2	(2) 1"	12
SSW24x12	--	141 1/4	5 1/2	(2) 1"	14
SSW18x13	--	153 1/4	5 1/2	(2) 1"	9
SSW21x13	--	153 1/4	5 1/2	(2) 1"	12
SSW24x13	--	153 1/4	5 1/2	(2) 1"	14

WALL PROFILES: SSW24, SSW21, SSW18, SSW15, SSW12

TABLE NOTES:
1. SDS^{1/4} x 3/8" SCREWS PROVIDED WITH WALL.
2. SEE SHEET SSW1 FOR ANCHORAGE SOLUTIONS.



STEEL STRONG-WALL
FRAMING DETAILS
ENGINEERED DESIGNS

SIMPSON STRONG-TIE COMPANY, INC.
HOME OFFICE: 5956 W. LAS POSITAS BLVD., PLEASANTON, CA 94588
TEL: (800) 999-5099

SIMPSON Strong-Tie
THERE IS NO EQUAL

NO.	DATE	REVISIONS
1	9/21/2009	2006 IBC REVISIONS
2	4/16/2014	2012 IBC REVISIONS

NAME: _____
DATE: 4-16-2014
SCALE: N.T.S.
CHECKED: _____
SHEET: **SSW2**
OF SHEETS: _____
JOB NO.: _____