

Illicit Discharges and Connections (Municipal Code 15.52) are prohibited into the Storm Drain System. Contractors are responsible for keeping clear the storm drain system and/or surface and ground water, if your construction project violates Municipal Code 15.52, the City of Kirkland Storm Maintenance Division will be called to clean the public storm system, and other affected public infrastructure. The contractor(s), property owner, vendor, and any other responsible party may be charged all costs associated with the clean-up and may also be assessed a fine (MCM 1.12.200). The minimum fine is \$500. A fine for a repeat violation shall be determined by the City of Kirkland. The fine will be collected by the City of Kirkland. Fines are not waived for persons who immediately self-report violation to the city at 425-587-3900. A Final Inspection of your Project will not be granted until all costs associated with the clean-up, and penalties, are paid to the City of Kirkland.

## SEPARATE PERMITS REQUIRED

Separate permits are required for any electrical, mechanical, and/or plumbing work.

2018 INTERNATIONAL BUILDING CODE (IBC)  
2018 INTERNATIONAL RESIDENTIAL CODE (IRC)  
2018 INTERNATIONAL FIRE CODE (IFC)  
2018 WASHINGTON STATE ENERGY CODE, WAC 51-11 (WSEC)  
2018 INTERNATIONAL MECHANICAL CODE (IMC)  
2018 INTERNATIONAL FUEL GAS CODE (IFGC)  
2018 UNIFORM PLUMBING CODE (UPC)  
2017 Washington Cities Electrical Code (2017 WCEC with 2020 NEC updates)

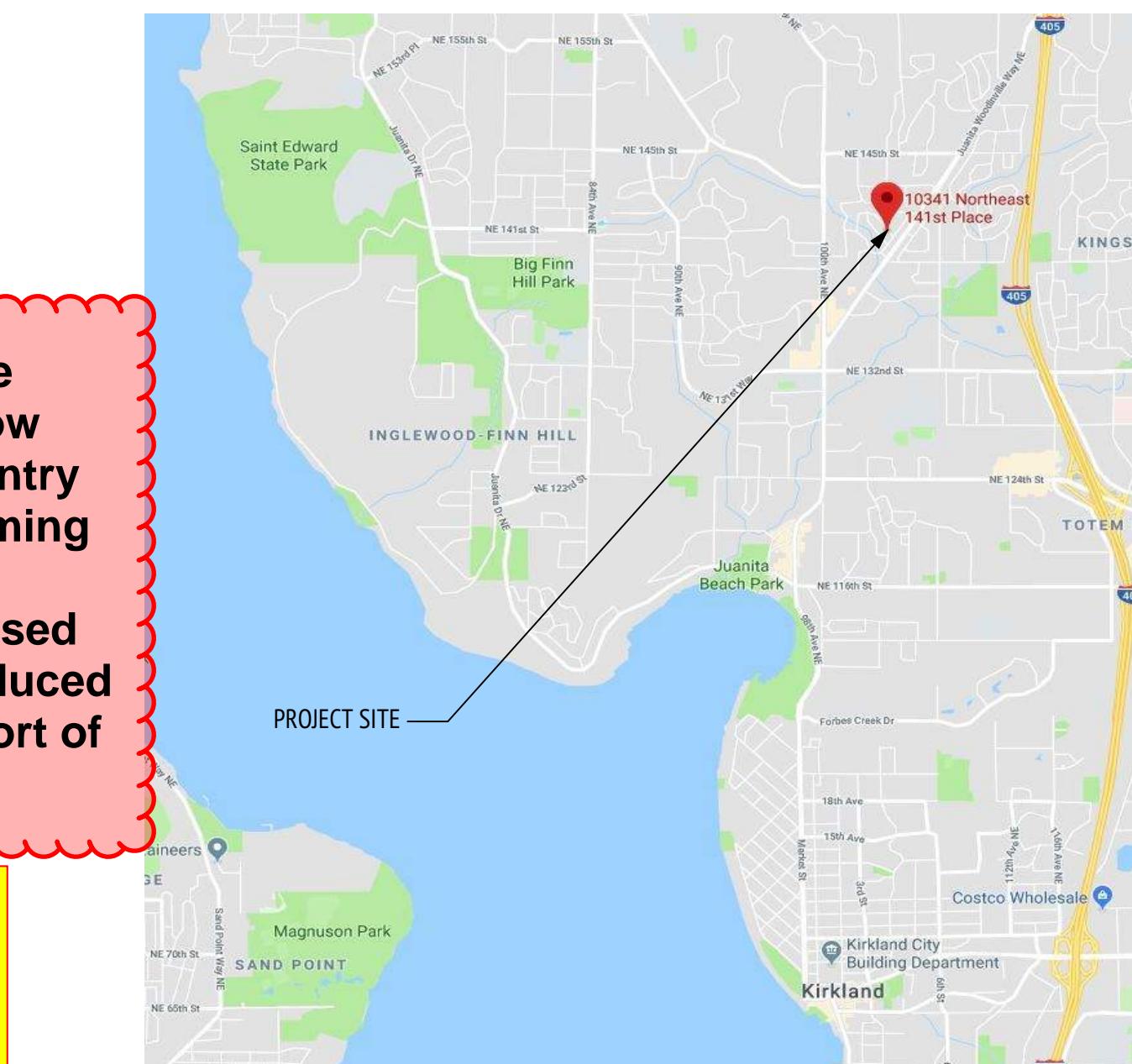
**WSEC-R 503.1/503.1.1**  
Any exposed building assemblies, that are part of the alteration, shall comply with R402.1.1 minimum insulation R-Values.

TABLE R402.1.1 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT <sup>a</sup>	
CLIMATE ZONE 5 AND MARINE 4	
Fenestration U-Factor <sup>b</sup>	0.30
Skylight <sup>b</sup> U-Factor	0.50
Ceiling R-Value <sup>c</sup>	49
Wood Frame Wall <sup>b, c</sup> R-Value	21 int
Floor R-Value	30
Below-Grade <sup>b, c</sup> Wall R-value	10/1521 int + STB
Slab <sup>b, c</sup> R-Value & Depth	10, 2 ft

## GENERAL INFORMATION

ADDRESS: 10341 NE 141ST PL  
KIRKLAND ZONING: RSA 6  
KING COUNTY PARCEL NO: 814300-0590  
LEGAL DESCRIPTION: SUN VILLAGE  
Plat Block: Plat. Lot. 59

## VICINITY MAP



**City of Kirkland**  
Reviewed by E Huffman  
10/19/2022

**LN**  
LIEN  
NISHIWAKI  
ARCHITECTS  
homero@ln-arc.com - 206.321.1449

## Aguilar Addition

10341 NE 141st Pl  
Kirkland WA 98034



WSEC 502.1.1.2 Primary dwelling unit addition is required to have:

WSEC 502.1.1.4/R404.1 Not less than 90 percent of lamps in permanently installed lighting fixtures shall be high-efficacy lamps.

**BLOWER DOOR/AIR LEAKAGE TESTING REQUIRED**

BLOWER DOOR/AIR LEAKAGE TO BE TESTED BY AN APPROVED THIRD PARTY IN ACCORDANCE WITH 2018 WSEC R402.4.1.2.

FOR PROJECTS UTILIZING AN ENERGY CREDIT WITHIN OPTION 2, TESTING SHALL COMPLY WITH THE REQUIRED REDUCED AIR CHANGES.

**WHOLE-HOUSE VENTILATION TESTING REQUIRED**

WHOLE-HOUSE VENTILATION SYSTEM TO BE TESTED BY AN APPROVED THIRD PARTY IN ACCORDANCE WITH 2018 IRC M1505.4.1.6.

CERTIFICATE OF TESTING TO BE POSTED PER M1505.4.1.7.

R401.3 A permanent certificate shall be completed by the builder or other approved party and posted on a wall in the space where the furnace is located, a utility room, or an approved location inside the building. When located on an electrical panel, the certificate shall not cover or obstruct the visibility of the circuit directory label, service disconnect label, or other required labels. The certificate shall list the predominant R-values of insulation installed in or on ceiling/roof, walls, foundation (slab, below-grade wall, and/or floor) and ducts outside conditioned spaces; U-factors for fenestration and the solar heat gain coefficient (SHGC) of fenestration; the results from any required duct system and building envelope air leakage testing done on the building; and the results from the whole-house mechanical ventilation system flow rate test. Where there is more than one value for each component, the certificate shall list the value covering the largest area. The certificate shall list the types and efficiencies of heating, cooling, whole house mechanical ventilation, and service water heating appliances. Where a gas-fired unvented room heater, electric furnace, or baseboard electric heater is installed in the residence, the certificate shall list "gas-fired unvented room heater," "electric furnace" or "baseboard electric heater," as appropriate. An efficiency shall not be listed for gas-fired unvented room heaters, electric furnaces or electric baseboard heaters. The code official may require that documentation for any required test results include an electronic record of the time, date and location of the test. A date-stamped smart phone photo or air leakage testing software may be used to satisfy this requirement.

## \*BLDG. DEPT. CONDITIONS -

**SUBJECT TO FIELD INSPECTION** – The constructed elements of this project are subject to field inspection and your inspector may not approve of site built details that are different than, or were not on the approved plans. Most changes/revisions cannot be inspected in the field without prior review and you must stay within the original scope. Any changes/revisions are to be submitted to Development Services for review prior to building them.

**SCOPE OF WORK** - Changes to the scope of work, design, materials or method of construction will require revised plans to be submitted. The plans must be reviewed and approved by City of Kirkland review staff prior to being implemented in the field. Additional review fees will be charged as applicable.

**ADDRESS NUMBERS** - New and existing buildings shall have approved address numbers placed in a position that is plainly legible and visible from the street or road fronting the property. These numbers shall contrast with their background. Address number shall be Arabic numerals or alphabet letters. Numbers shall be a minimum of 4 inches (4") high with a minimum stroke width of 0.5 inches (1/2"). IFC Sec. 505.

**SMOKE and CARBON MONOXIDE ALARMS** - Smoke Alarms are required for all new dwelling units and in existing dwelling units when alterations or repairs require a permit, or when one or more sleeping rooms are created within an existing space. Alarms shall be hard wired with battery backup and interconnected. Smoke Alarms and Carbon Monoxide Alarms are required at each story and outside each separate sleeping area in the immediate vicinity of the bedroom. See IFC Sec 314 and 315.

**HEAT DETECTOR - IFC R314.2.3** A heat detector or heat alarm rated for the ambient outdoor temperatures and humidity shall be installed in new garages that are attached to or located under new and existing dwellings. Heat detectors and heat alarms shall be installed in a central location and in accordance with the manufacturer's instructions.

## SPECIAL INSPECTION REQUIRED

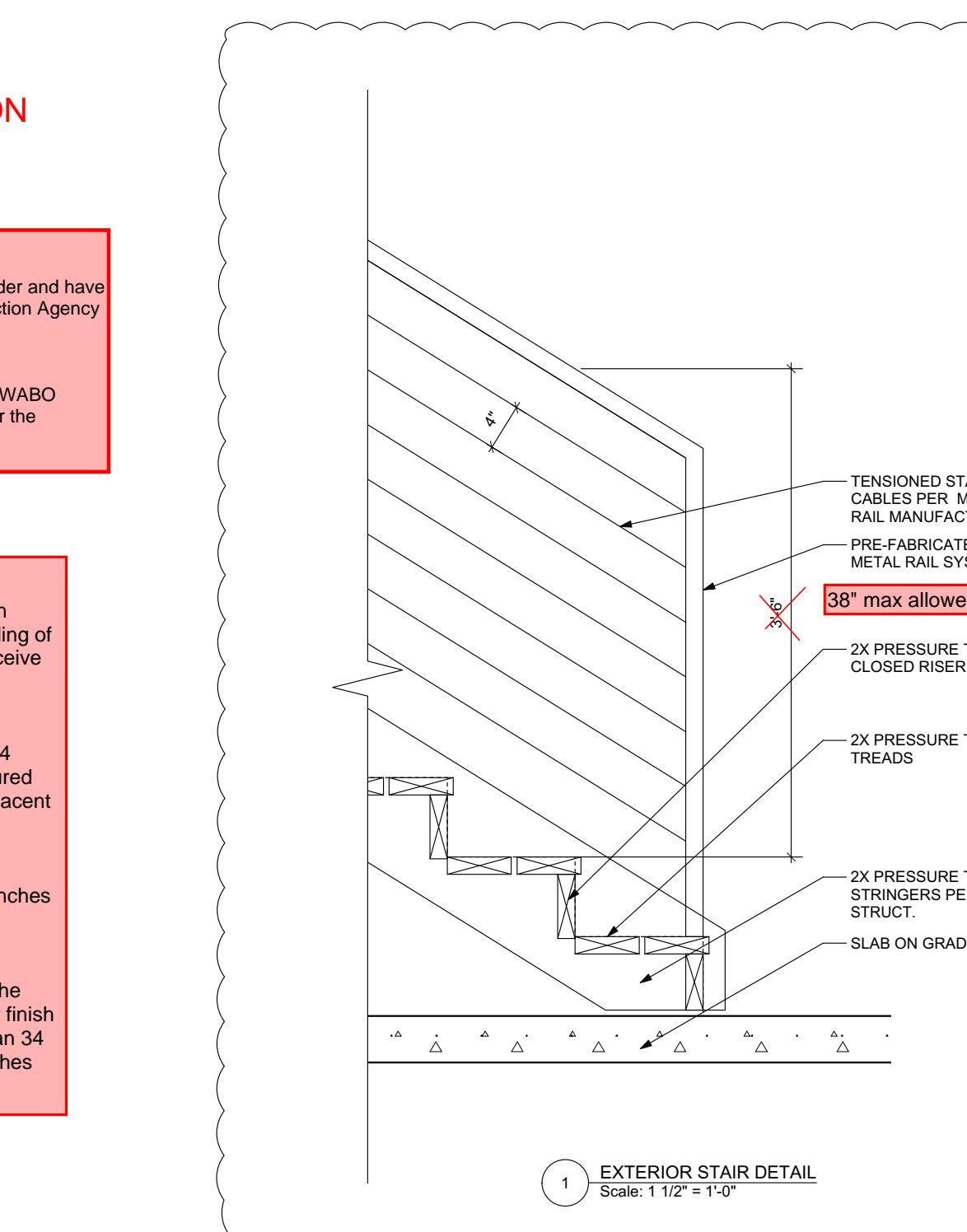
**ALL Welding:**  
Is required to be done by a WABO certified welder and have Special Inspections by a WABO certified inspection agency or Be done in a WABO certified fabrication shop.  
Have either the special inspection report or the WABO fabrication shop certification available on site for the Building Inspector.

**R303.8 Exterior stairway illumination.**  
Exterior stairways shall be provided with an artificial light source located at the top landing of the stairway. Stairway illumination shall receive primary power from the building wiring.

**R311.7.5.1 Riser.**  
The riser height shall not be more than 73/4 inches (196 mm). The riser shall be measured vertically between leading edges of the adjacent treads.

**R311.7.5.2 Treads.**  
The tread depth shall not be less than 10 inches (254 mm).

**R311.7.8.1 Height.**  
Handrail height, measured vertically from the sloped plane adjoining the tread nosing, or finish surface of ramp slope, shall not be less than 34 inches (864 mm) and not more than 38 inches (965 mm).



## SPECIAL INSPECTION REQUIRED

**SPECIAL INSPECTION REQUIRED BY LICENSED 3RD PARTY FOR ALL EPOXY SET ANCHORS OR STRUCTURAL HOLD DOWNS**

**8.31.2023/Post Rev 1 - Move lower unit entry door, window sized changed, upper unit entry door moved, revise wall framing and hold down location for revised entry openings, revised framing and beam sizes, reduced overhang and revised support of added studs at post.**

**1.12.2026 Post - Rev 2: Slab, Driveway, & lot coverage.**

**Revised sheets: A2, A5, & A6.**

**New sheets: C1-C6.**

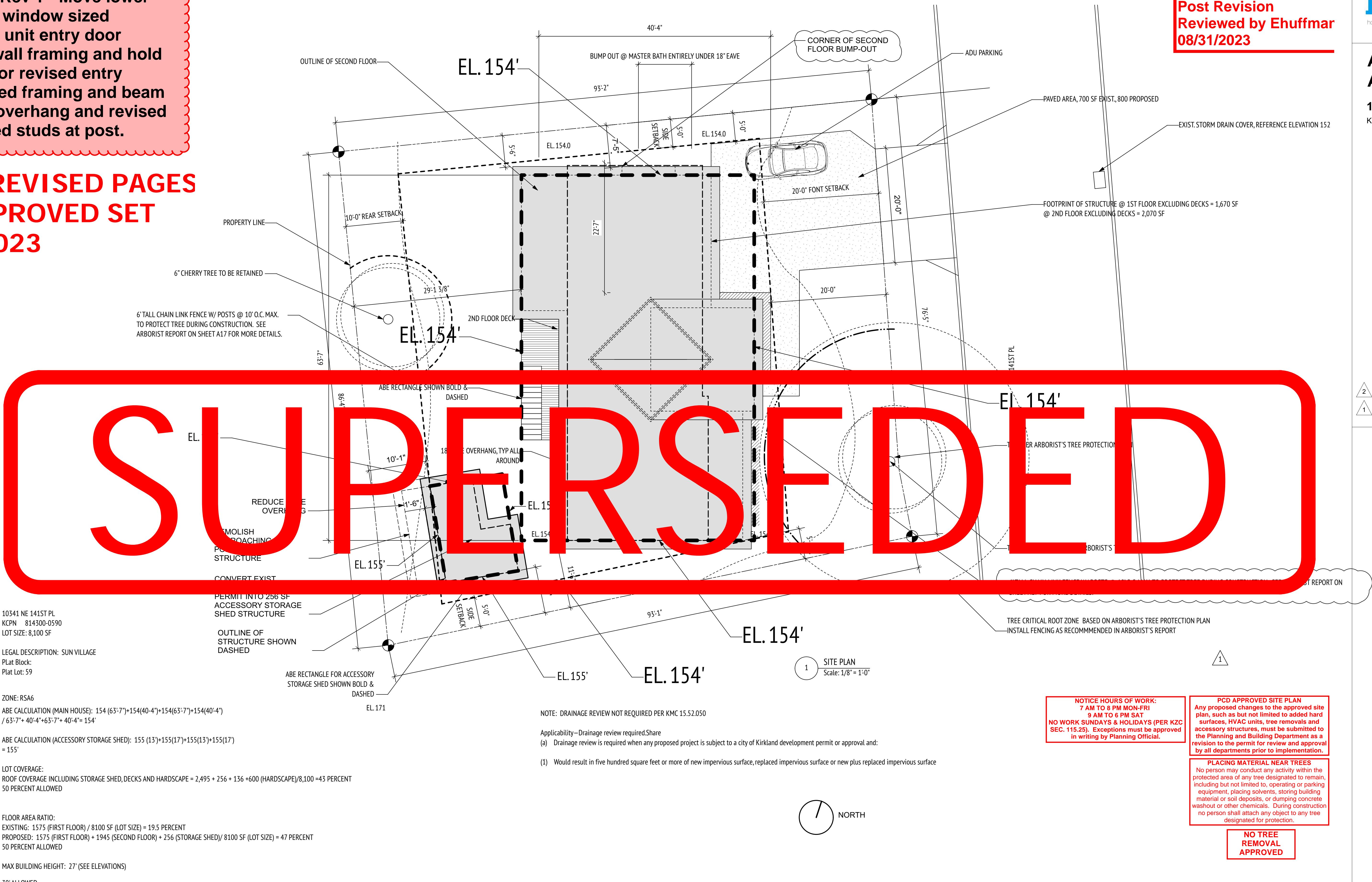
## ABBREVIATIONS

&	AND	F. O. I. C.	FURNISHED BY OWNER, INSTALLED BY CONTRACTOR	REQ'D. RES.	REQUIRED RESIDENT ROOM ROUGH OPENING
L	ANGLE	F. O. I. O.	FURNISHED BY OWNER, INSTALLED BY OWNER	R. R. O.	
@	AT	F. O. I. V.	FURNISHED BY OWNER, INSTALLED BY VENDOR		
C	CENTERLINE	FT.	FOOT OR FEET		
Ø	DIAMETER, ROUND	FTG.	FOOTING		
⊕	PERPENDICULAR	FURR.	FURRING		
#	POUND, NUMBER				
ACOUS.	ACOUSTICAL	G.	GAUGE	S. S. C.	SOUTH CORE SCHEDULE
A.C.T.	ACOUSTICAL TILE	GALV.	GALVANIZED	S. C. S.	SCHEDULE SECTION
A.D.	AREA DRAIN	G. B.	BAR	S. F.	SQUARE FOOT/FEET
ADJ.	ADJUSTABLE	GALV.	BEAM	S. K.	SINK
AGG.	AGGREGATE	G. C.	GLASS	S. H.	SHELF
ALUM.	ALUMINUM	G. G.	GYPSUM	S. H.	SHEET
APPR.	APPROXIMATELY	G. W. B.	GYPSUM WALLBOARD	SIM.	SIMILAR
ARCH.	ARCHITECTURAL			SPEC.	SPECIFICATION
				SQ.	SQUARE
BD.	BOARD	H. B.	HOSE BIBB	S. S.	STAINLESS STEEL
BLDG.	BUILDING	H. C.	HOLLOW CORE	STA.	SERVICE SINK
BLK.	BLOCK	HDWD.	HARDWOOD	STD.	STANDARD
BLKG.	BLOCKING	HDWE.	HARDWARE	STL.	STEEL
BM.	BEAM	H. M.	HOLLOW METAL	STOR.	STORAGE
BOT.	BOTTOM	H. O.	OPTIC	STRUCT.	STRUCTURAL
BRG.	BEARING	HORIZ.	HORIZONTAL	SUSP.	SUSPENDED
		HT.	HOUR	S.V.	SHEET VINYL
		H. W. H.	HEIGHT	SYM.	SYMMETRICAL
CAB.	CABINET	I. D.	INSIDE DIAMETER		
C. B.	CORK BOARD	INSUL.	INSULATION		
CEM.	CEMENT	INT.	INTERIOR		
CER.	CERAMIC			T. B.	TREAD
C. I.	CAST IRON			T. C.	TOP OF CURB
CL.	CLOSER	JAN.	JANITOR	T. & G.	TELEPHONE
CLR.	CLEAR	JT.	JOINT	T.O.G.	TONGUE AND GROOVE
COL.	COLUMN	KIT.	KITCHEN	T.O.S.	TOP OF GYREPORE
CONC.	CONCRETE	K.T.	KEYBOARD TRAY	T.P.	TOP OF SLAB
CONST.	CONSTRUCTION	L.	LAVATORY	T.P. D.	TOP OF PAVEMENT
CONT.	CONTINUOUS	LAM.	LAMINATE	T.V.	TOILET PAPER DISPENSER
COPR.	CORRIDOR	LT.	LIGHT	T. W.	TELEVISION
CPT.	CARPET			TYP.	TOP OF WALL
CTS.	COUNTERSUNK				TYPICAL
CTR.	COUNTER				
C.T.	CERAMIC TILE				
D	DEEP, DEPTH	MAX.	MAXIMUM	U.	URINAL
DBL.	DOUBLE	M. C.	MEDICINE CABINET	UNF.	UNFINISHED
D.F.	DRINKING FOUNTAIN	MEMB.	MECHANICAL	U. O. N.	UNLESS OTHERWISE NOTED
DET.	DETAIL	MFR.	MEMBRANE	UTIL.	UTILITY
DIA.	DIA.	M. H.	MANHOLE		
DIM.	DIMENSION	MIR.	MIRROR		
DISP.	DISPENSER, DISPOSAL	MISC.	MISCELLANEOUS		
DIV.	DOWN	M. O.	MASONRY OPENING		
DR.	DOWNSPOUT	MTD.	MOUNTED		
D. S.	DRAWING	MUL.	MULLION		
DWG.	DISHWASHER				
D. W.					
N.	NORTH	O. A.	OVERALL		
E.	NOT IN CONTRACT	OBS.	OBSCURE		
EA.	NUMBER	O. C.	ON CENTER		
EL.	NOMINAL	O. D.	OUTSIDE DIAMETER		
ELEV.	NOT TO SCALE	OFF.	OFFICE		
EMER.		OPP.	OPENING		
ENCL.		OPP.	OPPOSITE		
EQ.					
EQUIP.	EQUIPMENT	PEEP	PEEP HOLE		
E. W. C.	ELECTRIC WATER COOLER	PH.	PANIC HARDWARE		
EXH.	EXHAUST	PL.	PLATE		
EXP.	EXPANSION	P. LAM.	PLASTER		
EXT.	EXPOSED	PLAS.	PLYWOOD		
	EXTERIOR	PLYWD.			
F. A.	FIRE ALARM	PR.	PAIR		
F. B.	FLAT BAR	PT.	POINT, PAINT		
F. D.	FLOOR DRAIN	P. T. D.	PAPER TOWEL DISPENSER		
FDN.	FOUNDATION				



8.31.2023/Post Rev 1 - Move lower unit entry door, window sized changed, upper unit entry door moved, revise wall framing and hold down location for revised entry openings, revised framing and beam sizes, reduced overhang and revised support of added studs at post.

# INSERT REVISED PAGES INTO APPROVED SET 08/31/2023



Site Plan

## Building PERMIT

October 5, 2021

A2

# 1.12.2026

## Post - Rev 2: Slab, Driveway, & lot coverage.

**INSERT REVISED PAGE  
INTO APPROVED SET  
01/12/2026**

## Revised sheets: A2, A5, & A6.

## New sheets: C1-C6.

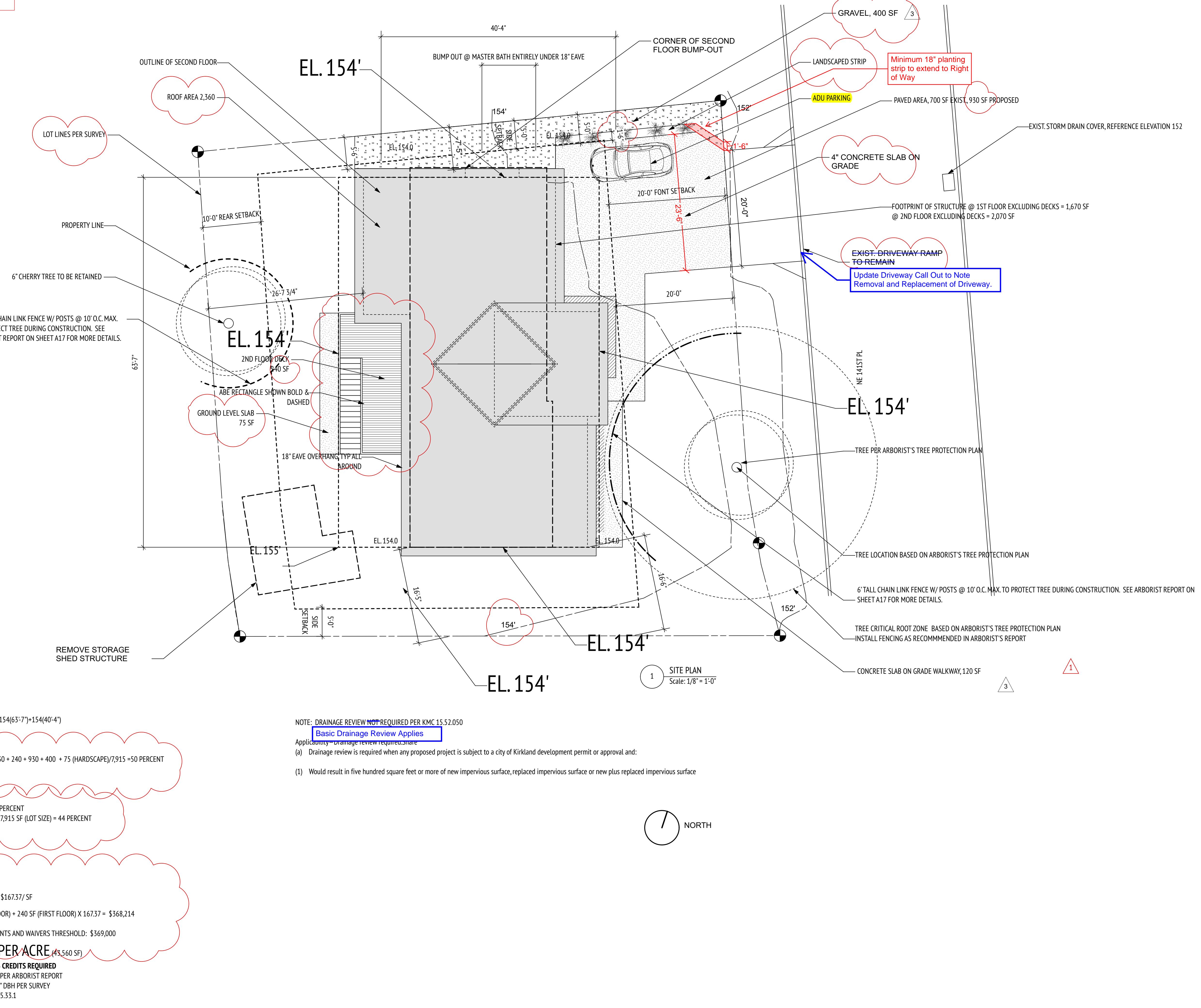
**APPROVED PLAN  
SET MUST REMAIN  
ON SITE.**

# **CITY MARKUPS & APPROVALS MUST BE PRINTED IN RED**

**POST REVISION  
REVIEWED AND  
APPROVED BY  
PUBLIC WORKS &  
PLANNING**

SED PAGE  
WED SET

**City of Kirkland  
Post Revision Reviewed by  
Ehuffman 01/07/2026**



**LN** LIEN  
NISHIWAKI  
ARCHITECTS  
homero@ln-arc.com - 206.321.1449

# Aguilar Addition

**10341 NE 141st Pl**  
Kirkland WA 98034

8585  
REGISTERED  
ARCHITECT  
Homero Nishiwaki  
HOMERO NISHIWAKI  
STATE OF WASHINGTON

- 3 POST-ISSUANCE PERMIT REVISION 08/11/2025
- 2 PERMIT REVISION 08/29/2023
- 1 PERMIT REVISION 08/09/2023

## Site Plan

# Building PERMIT

## LEGAL DESCRIPTION

(PER STATUTORY WARRANTY DEED RECORDING# 20160705001584)

LOT 59, SUN VILLAGE, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 83 OF PLATS, PAGES 26 AND 27, IN KING COUNTY, WASHINGTON.

## BASIS OF BEARINGS

ACCEPTED THE BEARING OF S 35°26'34" W, BETWEEN MONUMENTS FOUND ALONG THE CENTERLINE OF 104TH PLACE N.E., PER REFERENCE NO. 1.

## REFERENCES

R1. SUN VILLAGE, VOL. 83, OF PLATS, PGS. 26-27, RECORDS OF KING COUNTY, WASHINGTON.

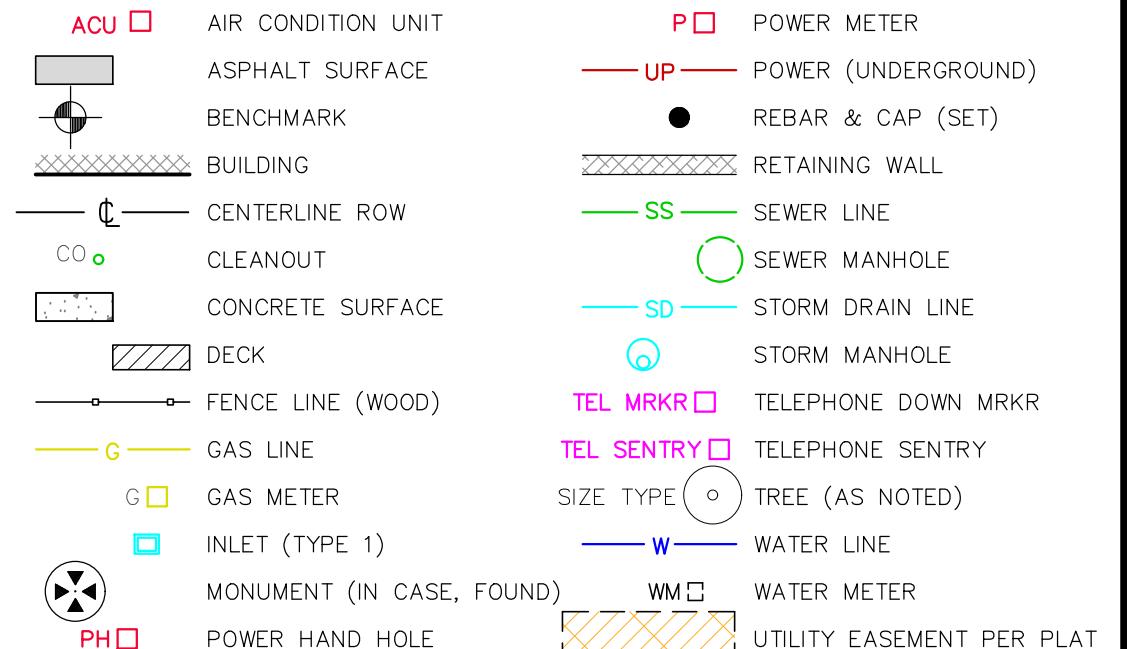
## VERTICAL DATUM

NAVD 88 PER GPS OBSERVATIONS

## SURVEYOR'S NOTES

1. THE TOPOGRAPHIC SURVEY SHOWN HEREON WAS PERFORMED IN FEBRUARY OF 2022. THE FIELD DATA WAS COLLECTED AND RECORDED ON MAGNETIC MEDIA THROUGH AN ELECTRONIC THEODOLITE. THE DATA FILE IS ARCHIVED ON DISC OR CD. WRITTEN FIELD NOTES MAY NOT EXIST. CONTOURS ARE SHOWN FOR CONVENIENCE ONLY. DESIGN SHOULD RELY ON SPOT ELEVATIONS.
2. ALL MONUMENTS SHOWN HEREON WERE LOCATED DURING THE COURSE OF THIS SURVEY UNLESS OTHERWISE NOTED.
3. THE TYPES AND LOCATIONS OF ANY UTILITIES SHOWN ON THIS DRAWING ARE BASED ON INFORMATION PROVIDED TO US, BY OTHERS OR GENERAL INFORMATION READILY AVAILABLE IN THE PUBLIC DOMAIN INCLUDING, AS APPLICABLE, IDENTIFYING MARKINGS PLACED BY UTILITY LOCATE SERVICES AND OBSERVED BY TERRANE IN THE FIELD. AS SUCH, THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY AND SHOULD NOT BE RELIED ON FOR DESIGN OR CONSTRUCTION PURPOSES; TERRANE IS NOT RESPONSIBLE OR LIABLE FOR THE ACCURACY OR COMPLETENESS OF THIS UTILITY INFORMATION. FOR THE ACCURATE LOCATION AND TYPE OF UTILITIES NECESSARY FOR DESIGN AND CONSTRUCTION, PLEASE CONTACT THE SITE OWNER AND THE LOCAL UTILITY LOCATE SERVICE (800-424-5555).
4. SUBJECT PROPERTY TAX PARCEL NO. 814300-0590
5. SUBJECT PROPERTY AREA PER THIS SURVEY IS 7,915 ±S.F. (0.18 ACRES)
6. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT. EASEMENTS AND OTHER ENCUMBRANCES MAY EXIST THAT ARE NOT SHOWN HEREON.
7. EXISTING STRUCTURE(S) LOCATION AND DIMENSIONS ARE MEASURED FROM THE FACE OF THE SIDING UNLESS OTHERWISE NOTED.
8. FIELD DATA FOR THIS SURVEY WAS OBTAINED BY DIRECT FIELD MEASUREMENTS WITH A CALIBRATED ELECTRONIC 5-SECOND TOTAL STATION AND/OR SURVEY GRADE GPS OBSERVATIONS. ALL ANGULAR AND LINEAR RELATIONSHIPS ARE ACCURATE AND MEET THE STANDARDS SET BY WAC 332-130-090.

## LEGEND

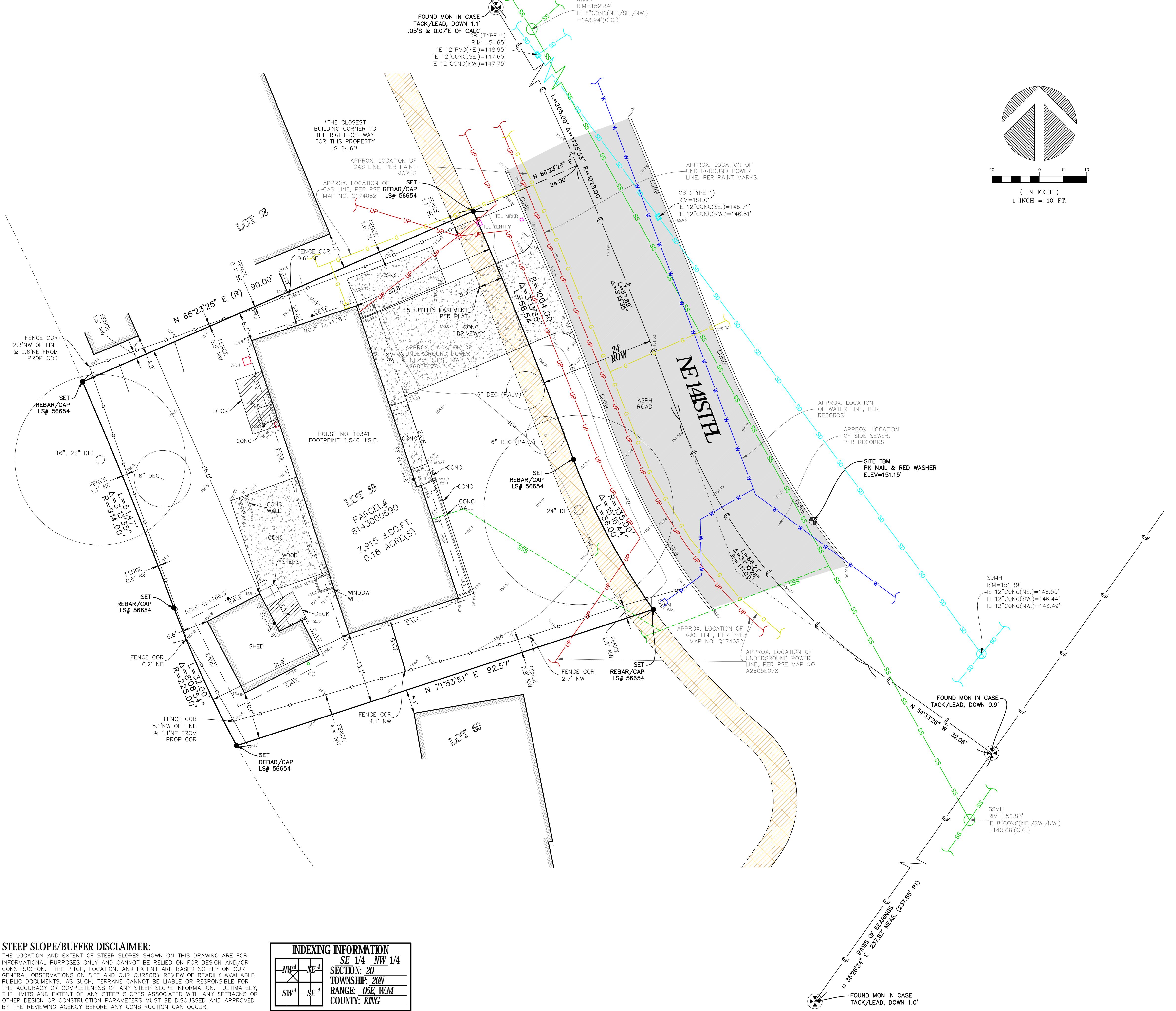


## VICINITY MAP



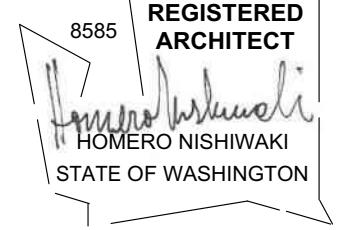
STEEP SLOPE/BUFFER DISCLAIMER:  
THE LOCATION AND EXTENT OF STEEP SLOPES SHOWN ON THIS DRAWING ARE FOR INFORMATIONAL PURPOSES ONLY AND CANNOT BE RELIED ON FOR DESIGN AND/OR CONSTRUCTION. THE PITCH, LOCATION, AND EXTENT ARE BASED SOLELY ON OUR GENERAL OBSERVATIONS ON SITE AND OUR CURSORY REVIEW OF READILY AVAILABLE PUBLIC DOCUMENTS; AS SUCH, TERRANE CANNOT BE LIABLE OR RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY STEEP SLOPE INFORMATION. ULTIMATELY, THE PITCH AND EXTENT OF ANY STEEP SLOPES ASSOCIATED WITH ANY SETBACKS OR OTHER DESIGN OR CONSTRUCTION PARAMETERS MUST BE DISCUSSED AND APPROVED BY THE REVIEWING AGENCY BEFORE ANY CONSTRUCTION CAN OCCUR.

# TOPOGRAPHIC & BOUNDARY SURVEY



JOB NUMBER: 220117  
DATE: 03/16/22  
DRAFTED BY: IDV/RPM  
CHECKED BY: JGM/TBH  
SCALE: 1" = 10'  
REVISION HISTORY

SHEET NUMBER  
1 OF 1



**SUPERSEDED**

18'-0" x 17'-0" Foundation Plan

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

1. Existing 6 x 6 Posts

2. Existing Perimeter Footing w/ Crawl Space Vents, .5 S.F. Open Free Area (Verify)

3. Existing Perimeter Footing w/ Crawl Space Vents, .5 S.F. Open Free Area (Verify)

4. Existing Slab on Grade

5. New Perimeter Footing

6. New Crawl Space Access Hatch @ Floor Above

7. New Post Footings

8. New Crawl Space 145 S.F.

9. 18" x 24" Crawl Space Access Hatch @ Floor Above

10. 900 S.F. Existing Crawl Space

11. .6 S.F. of Ventilation Required Based on 1/1,500 with Class 1 Vapor Retarder

12. Install New 6 Mil Polyethylene Vapor Retarder, Seal & Secure All Edges and Penetrations

13. SEE STRUCTURAL FOR NEW TO EXIST FOUNDATION CONNECTION

14. 1 SF Vent Opening Required per 1,500 S.F. of Crawl Space w/ Installation of Class 1 Vapor Retarder.

15. Remove Pre-Cast Pier Footings

16. Accessory Structure Foundation Plan

17. Foundation Plan 1/4" = 1'-0"

18. .5 SF Net Free Area Foundation Vents per IRC 408.2

19. .5 SF Net Free Area Foundation Vents per IRC 408.2

20. 2'-0" (Verify)

21. 9'-6"

22. 2'-0" (Verify)

23. 9'-9" (Verify)

24. 11'-7"

25. 11'-7"

26. 17'-0"

27. 2'-0"

28. 4'-0"

29. 18'-0"

30. 2'-0"

31. 3

32. 1

33. 2

34. A7

35. A6

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This demolition plan diagram shows the layout of a first floor with various rooms and structural elements. The plan includes the following rooms and their status:

- GARAGE TO REMAIN
- LIVING ROOM TO REMAIN
- DEMOLISH STAIR
- DINING ROOM TO REMAIN
- KITCHEN TO REMAIN
- BEDROOM 1 TO REMAIN
- BEDROOM 2 TO REMAIN
- BEDROOM 3 TO REMAIN
- BATHROOM TO REMAIN

The diagram also features several dashed lines and arrows indicating demolition paths or areas. Three circular callouts provide additional information:

- Callout 1 (A6): FIRST FLOOR DEMOLITION PLAN
- Callout 2 (A7): Scale: 1/4" = 1'-0"
- Callout 3 (A7): NORTH

REMOVE & CAP PLUMBING FIXTURES

5'-3"

8'-2"

8'-10"

8'-3"

MODIFY EXIST.  
ACCESSORY STRUCTURE,  
CONVERT TO STORAGE SHED

DEMOLISH WALLS

3 ACCESSORY STRUCT. DEMOLITION PLAN

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

NORTH

# Existing Floor Plans

# Building PERMIT

October 5, 2021

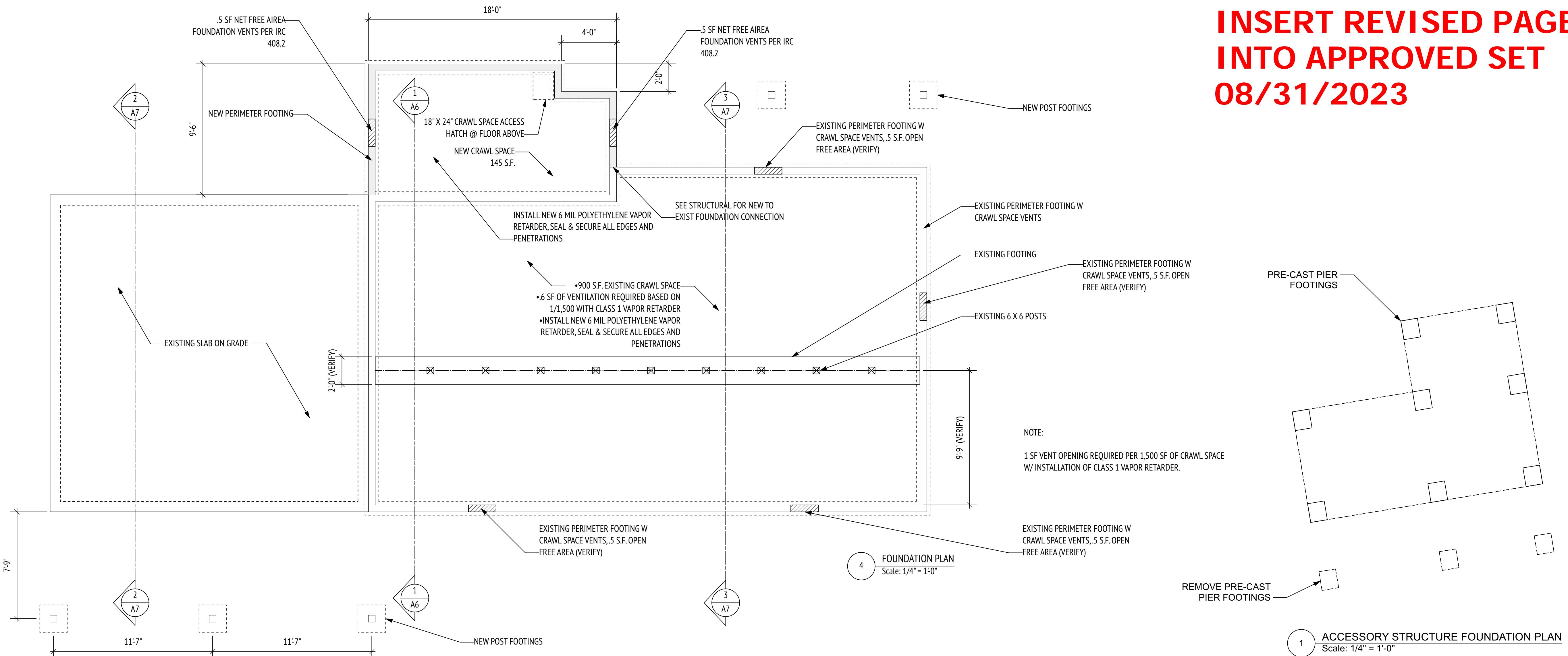
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**Aguilar  
Addition**

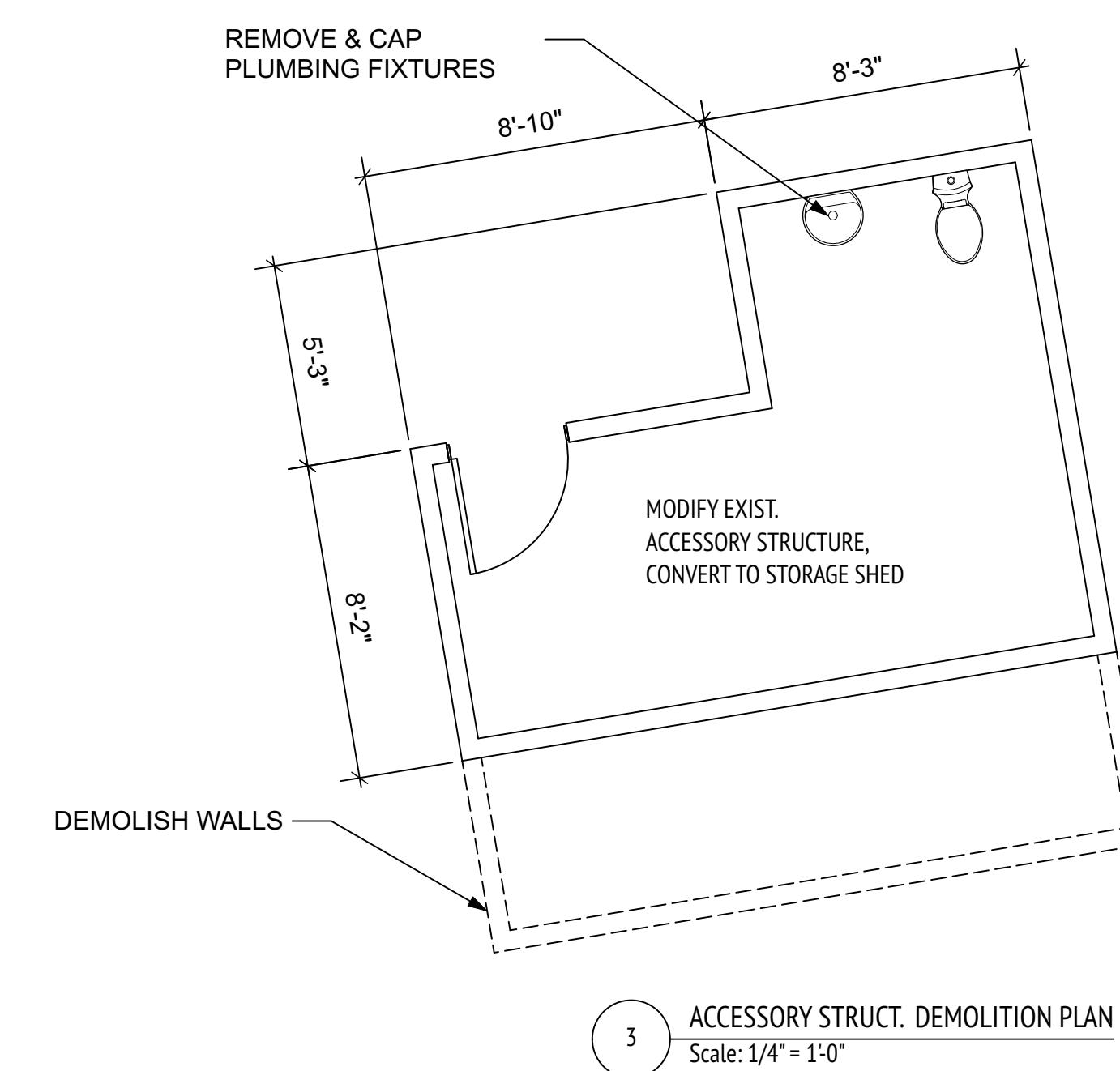
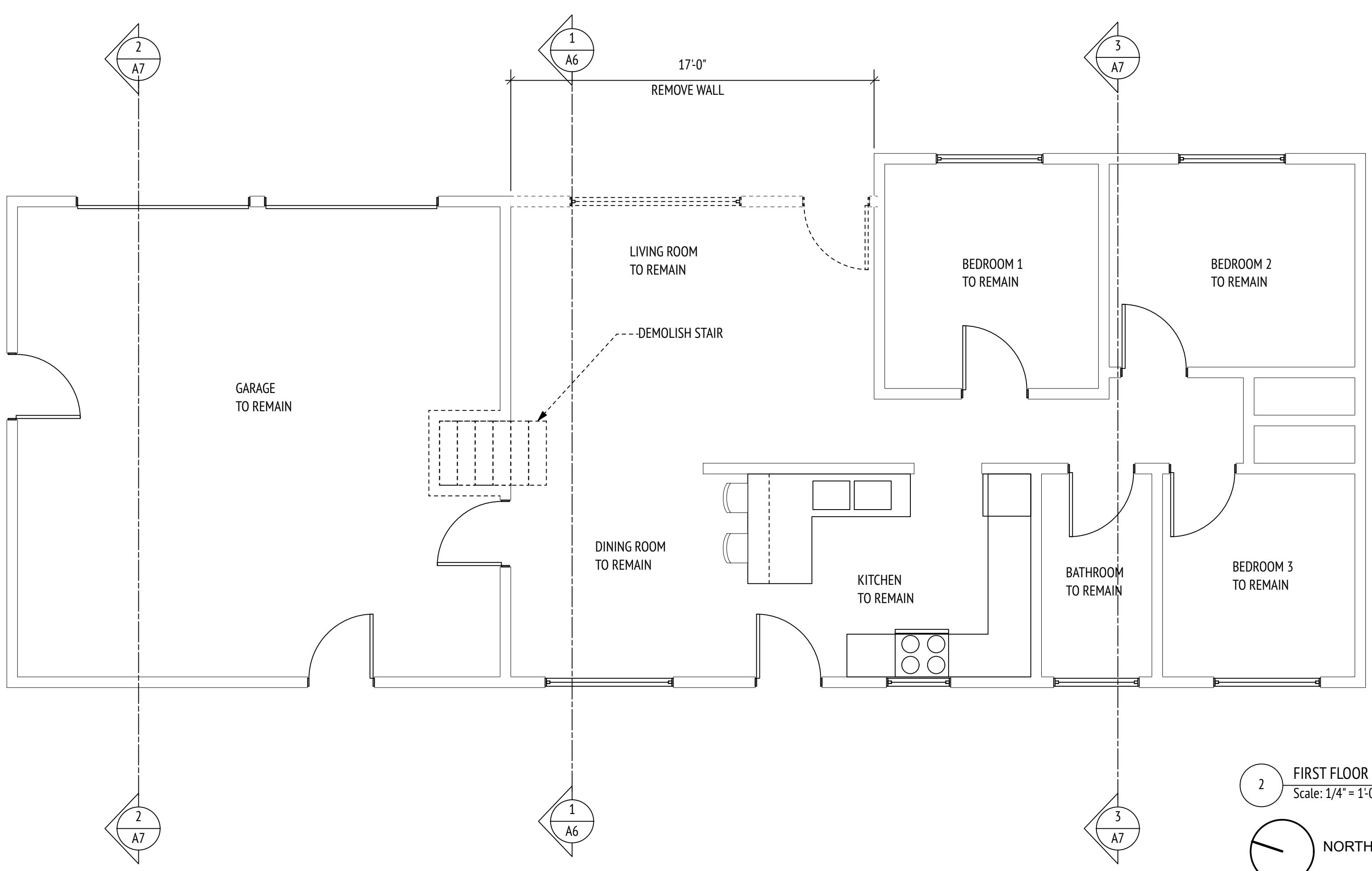
10341 NE 141st Pl  
Kirkland WA 98034



2 PERMIT REVISION 08/29/2023  
1 PERMIT REVISION 08/09/2023

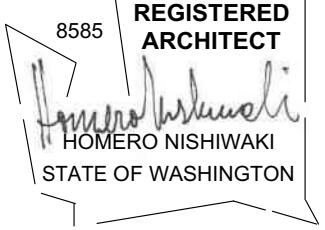


**1 ACCESSORY STRUCTURE FOUNDATION PLAN**  
Scale: 1/4" = 1'-0"



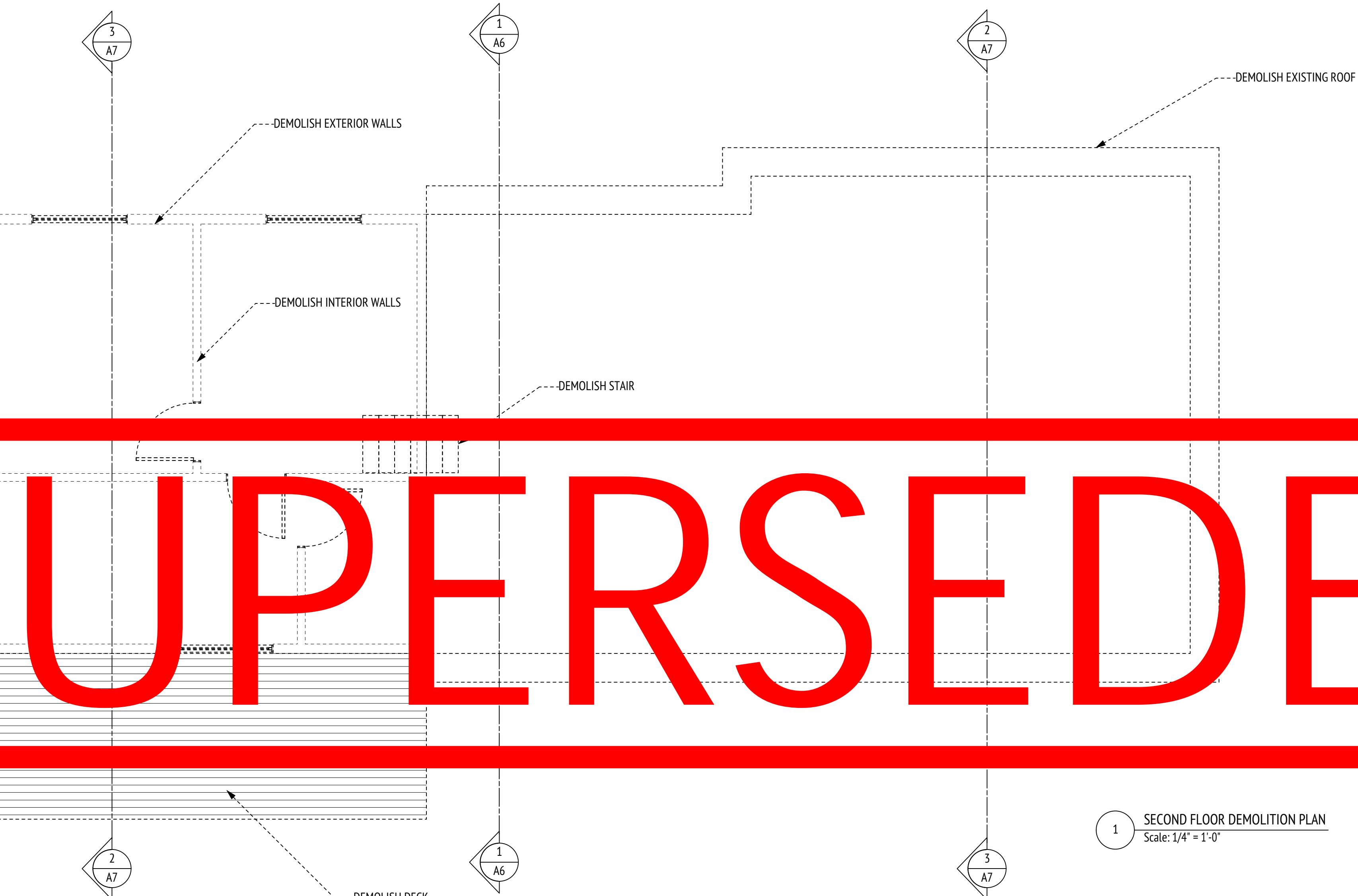
Existing Floor Plans  
Building PERMIT  
October 5, 2021

**A3**



PERMIT CORRECTIONS 7/13/2018

**SUPERSEDED**



Floor Plans

Building PERMIT

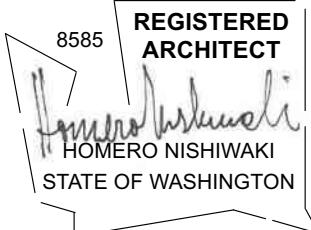
October 5, 2021

**A4**

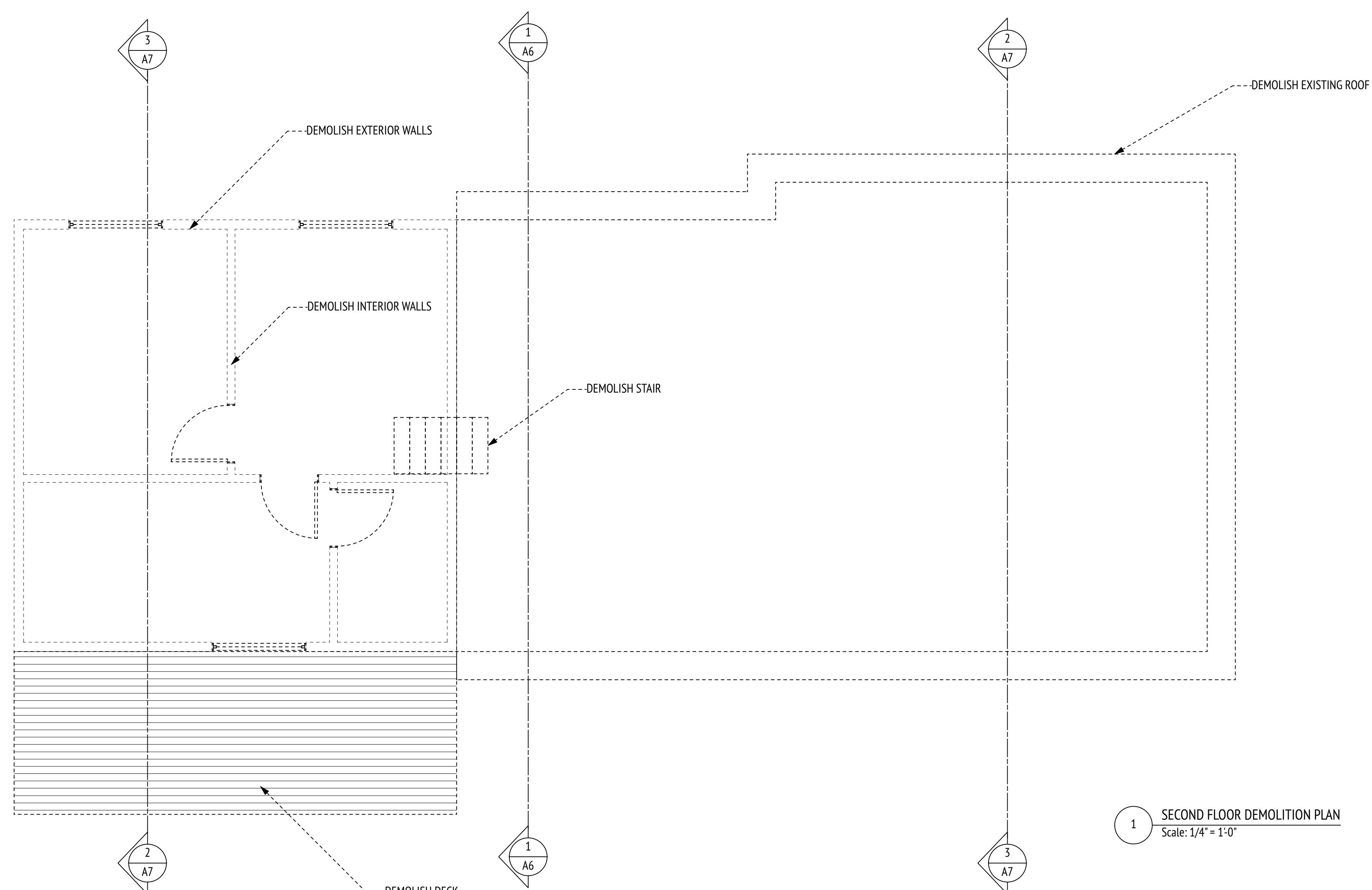
**INSERT REVISED PAGES  
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**Aguilar  
Addition**

**10341 NE 141st Pl**  
Kirkland WA 98034



2 PERMIT REVISION 08/29/2023  
4 PERMIT CORRECTIONS 7/13/2018  
1 PERMIT REVISION 08/09/2023



Floor Plans

Building PERMIT

October 5, 2021

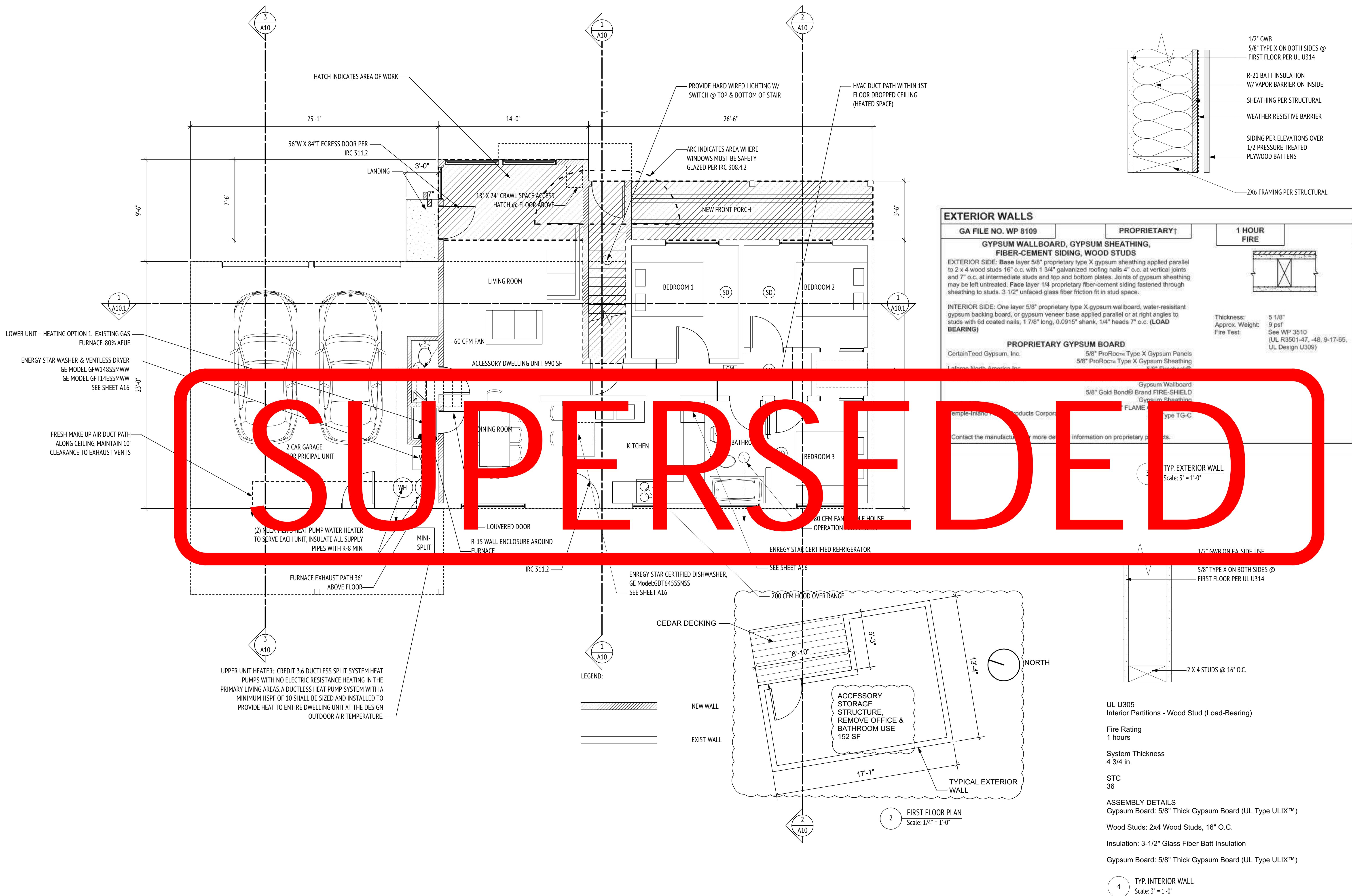


**A4**

**Aguilar  
Addition**

10341 NE 141st Pl  
Kirkland WA 98034

8585 REGISTERED  
HOMERO NISHIWAKI  
STATE OF WASHINGTON



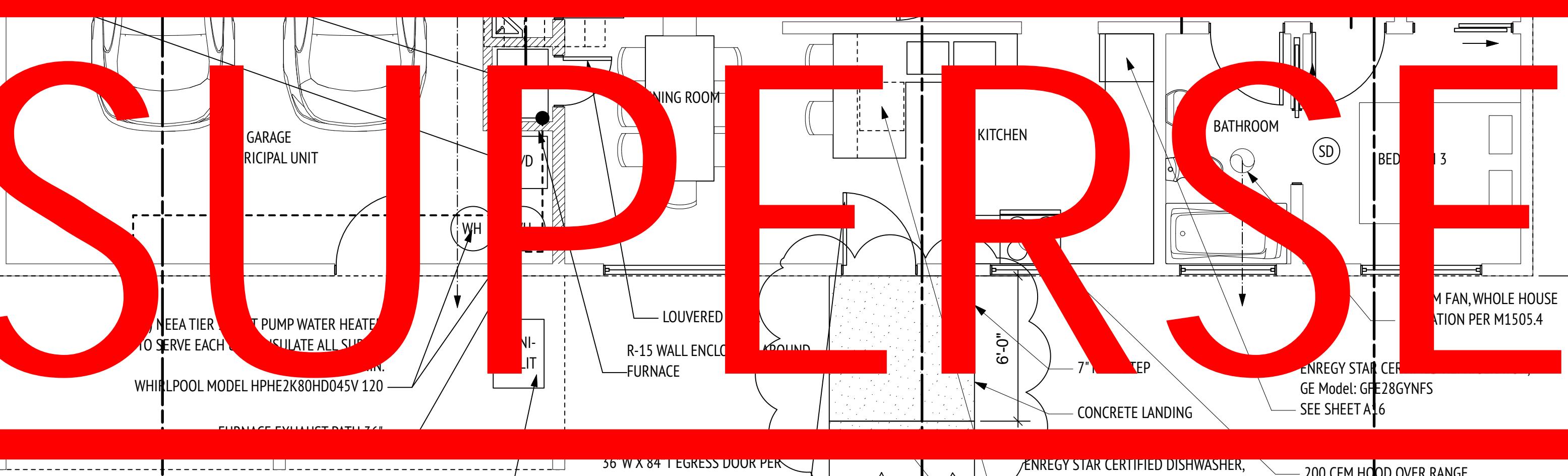
# INSERT REVISED PAGES INTO APPROVED SET 08/31/2023

PCD APPROVED SITE PLAN  
Any proposed changes to the approved site plan, such as but not limited to added hard surfaces, HVAC units, tree removals and accessory structures, must be submitted to the Planning and Building Department as a revision to the permit for review and approval by all departments prior to implementation.

NOTICE HOURS OF WORK:  
7 AM TO 8 PM MON-FRI  
9 AM TO 6 PM SAT  
NO WORK SUNDAYS & HOLIDAYS (PER KZC  
SEC. 115.25). Exceptions must be approved  
in writing by Planning Official.

LOWER UNIT - HEATING OPTION 1. EXISTING GAS FURNACE, 80% AFUE  
ENERGY STAR WASHER & VENTLESS DRYER  
GE MODEL GFW148SSMW  
GE MODEL GFT14ESSMW  
SEE SHEET 16

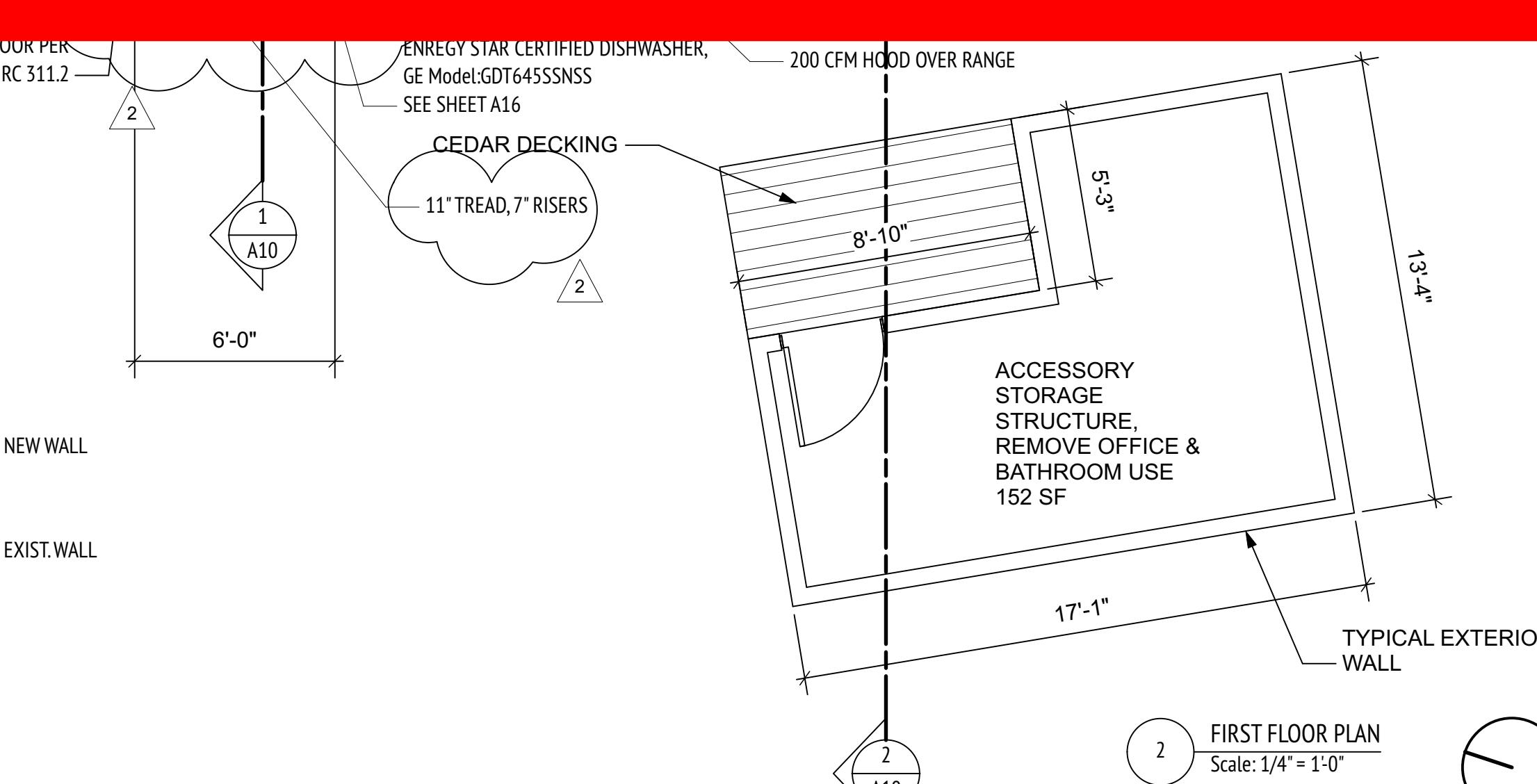
FRESH MAKE UP AIR PATH-  
ALONG CEILING, MAIN 10'  
CLEARANCE TO EXHAUST VENTS



UPPER UNIT HEATER: CREDIT 3.6 DUCTLESS SPLIT SYSTEM HEAT PUMPS WITH NO ELECTRIC RESISTANCE HEATING IN THE PRIMARY LIVING AREAS. A DUCTLESS HEAT PUMP SYSTEM WITH A MINIMUM HSPF OF 10 SHALL BE SIZED AND INSTALLED TO PROVIDE HEAT TO ENTIRE DWELLING UNIT AT THE DESIGN OUTDOOR AIR TEMPERATURE.

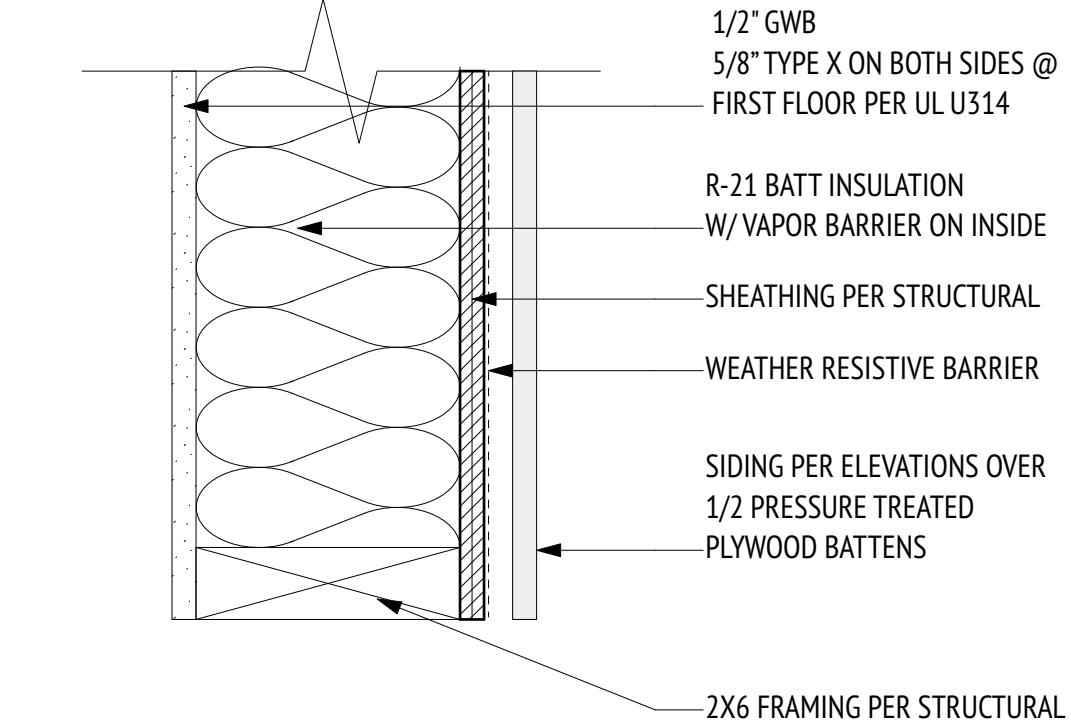
LEGEND:  
NEW WALL  
EXIST. WALL

EXIST. WALL



FIRST FLOOR PLAN  
Scale: 1/4" = 1'-0"

NORTH

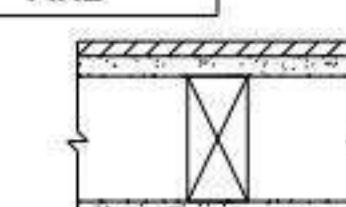


## EXTERIOR WALLS

GA FILE NO. WP 8109

PROPRIETARY†  
1 HOUR FIRE

GYPSUM WALLBOARD, GYPSUM SHEATHING,  
FIBER-CEMENT SIDING, WOOD STUDS  
EXTERIOR SIDE: Base layer 5/8" proprietary type X gypsum sheathing applied parallel to 2 x 4 wood studs 16" o.c. with 1 3/4" galvanized roofing nails 4" o.c. at vertical joints and 7" o.c. at intermediate studs and top and bottom plates. Joints of gypsum sheathing may be left untreated. Face layer 1/4" proprietary fiber-cement siding fastened through sheathing to studs. 3 1/2" unfaced glass fiber friction fit in stud space.



INTERIOR SIDE: One layer 5/8" proprietary type X gypsum wallboard, water-resistant gypsum backing board, or gypsum veneer base applied parallel or at right angles to studs with 6d coated nails, 1 7/8" long, 0.0915" shank, 1/4" heads 7" o.c. (LOAD BEARING)

Thickness: 5 1/8"  
Approx. Weight: 9 psf  
Fire Test: See WP 3510  
(UL R3501-47, -48, 9-17-85,  
UL Design U309)

### PROPRIETARY GYPSUM BOARD

CertainTeed Gypsum, Inc.  
Lafarge North America Inc.  
National Gypsum Company

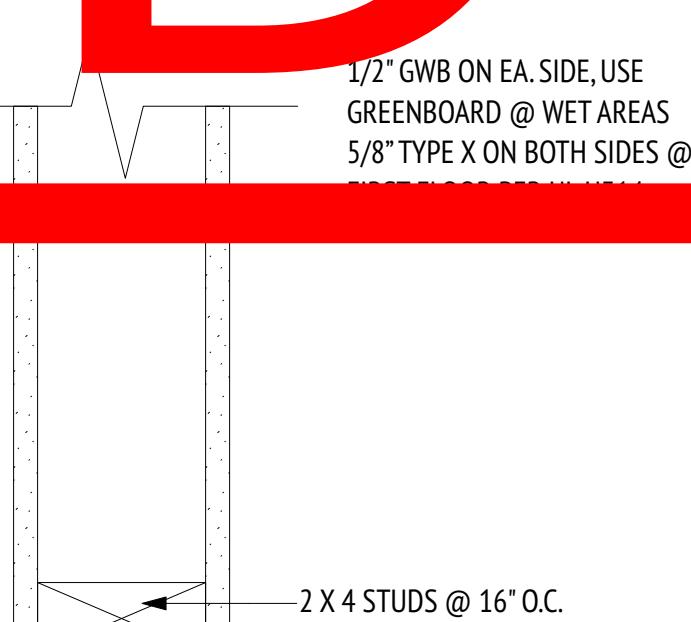
5/8" ProRock™ Type X Gypsum Panels  
5/8" ProRock™ Type X Gypsum Sheathing  
5/8" Firecheck®  
5/8" Gold Bond® Brand FIRE-SHIELD

PABCO Gypsum  
Temple-Inland Forest Products Corporation

Gypsum Sheathing  
5/8" FLAME CURB® Type X  
5/8" Type TC

†Contact the manufacturer for more detailed information on proprietary products.

TYP. EXTERIOR WALL  
Scale: 3" = 1'-0"



UL U305  
Interior Partitions - Wood Stud (Load-Bearing)

Fire Rating  
1 hours

System Thickness  
4 3/4 in.

STC  
36

ASSEMBLY DETAILS  
Gypsum Board: 5/8" Thick Gypsum Board (UL Type U1X™)

Wood Studs: 2x4 Wood Studs, 16" O.C.

Insulation: 3-1/2" Glass Fiber Batt Insulation

Gypsum Board: 5/8" Thick Gypsum Board (UL Type U1X™)

TYP. INTERIOR WALL  
Scale: 3" = 1'-0"

Floor Plans

Building PERMIT  
October 5, 2023

A5

**LN** LIEN  
NISHIWAKI  
ARCHITECTS  
homero@ln-arc.com - 206.321.1449

**Aguilar  
Addition**

10341 NE 141st Pl  
Kirkland WA 98034

8585 REGISTERED  
ARCHITECT  
HOMERO NISHIWAKI  
STATE OF WASHINGTON





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# Aguilar Addition

**10341 NE 141st Pl**  
Kirkland WA 98034

8585

**REGISTERED  
ARCHITECT**

*Homero Nishiwaki*

HOMERO NISHIWAKI

STATE OF WASHINGTON

WALL LEGEND:

---

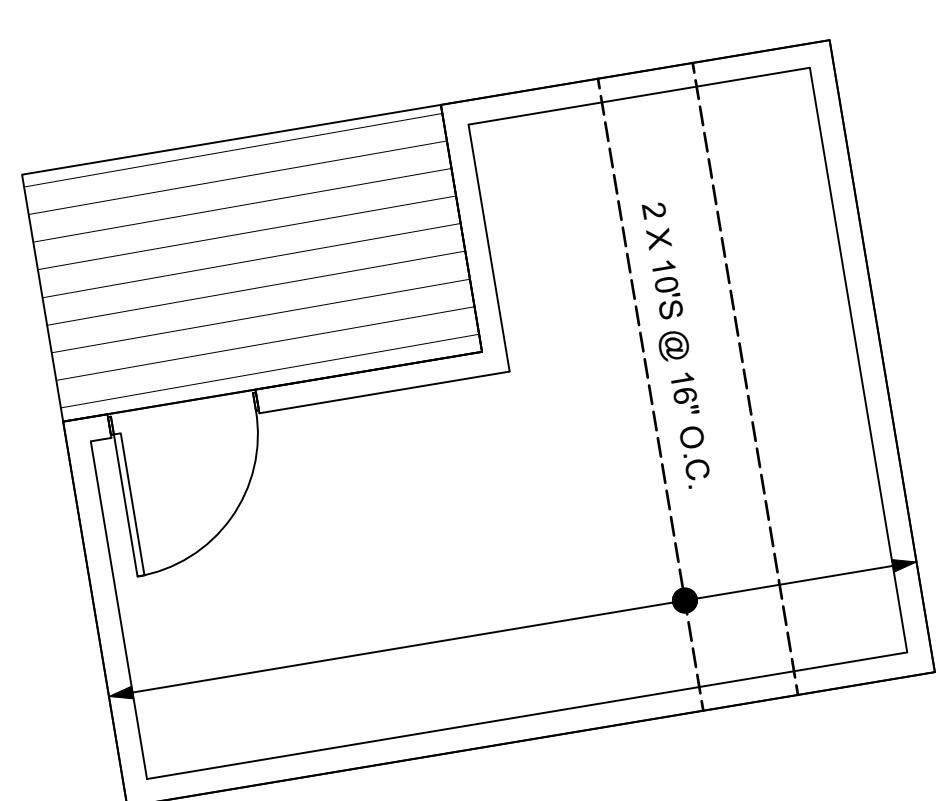
EXIST.

PERMIT REVISION 08/29/2023

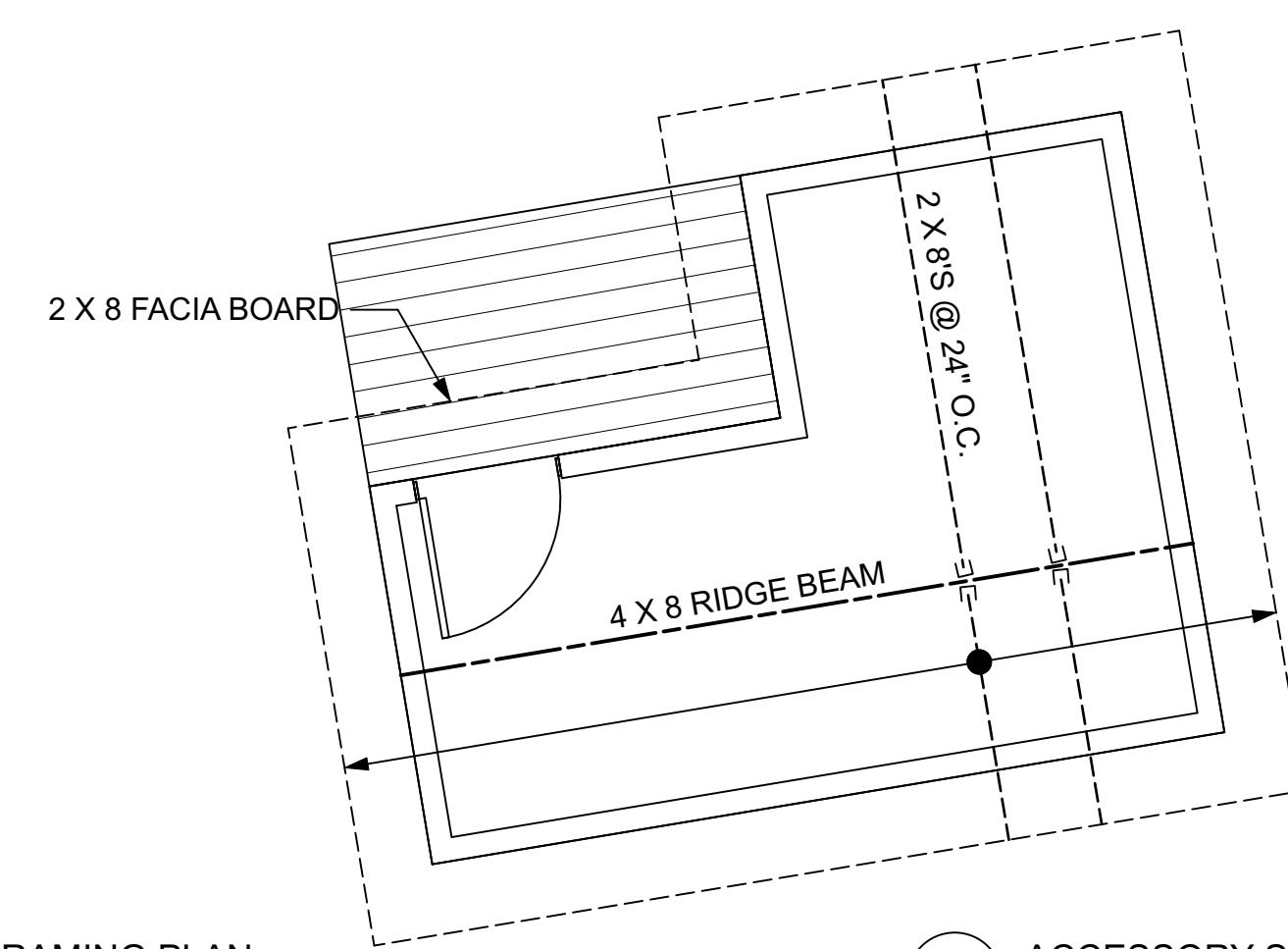
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CM CARBON MONOXIDE DETECTOR  
WALL MOUNTED 5' ABOVE FLOOR

SD SMOKE DETECTOR  
CEILING MOUNTED



3 ACCESSORY STORAGE STRUCTURE FLOOR FRAMING PLAN  
Scale: 1/4" = 1'-0"



4 ACCESSORY STORAGE STRUCTURE ROOF FRAMING PLAN  
Scale: 1/4" = 1'-0"

## •Second Floor Plan

# Building PERMIT

A6

# Aguilar Addition

**10341 NE 141st Pl**  
Kirkland WA 98034

An architectural stamp featuring a stylized signature of the name "Homero Nishiwaki" in the center. Above the signature, the address "8585" is printed. To the right of the signature, the word "ARCHITECT" is printed in capital letters. Below the signature, the text "HOMERO NISHIWAKI" and "STATE OF WASHINGTON" are printed in capital letters. The entire stamp is enclosed within a decorative border consisting of a large triangle at the top and a large diamond shape at the bottom, with smaller triangles on the sides.

#### WALL LEGEND:

EXIST WALL

3 POST-ISSUANCE  
PERMIT REVISION 08/11/2025

2 PERMIT REVISION 08/29/2023

1 PERMIT REVISION 08/09/2023

LEGEND

**CM** CARBON MONOXIDE DETECTOR  
WALL MOUNTED 5' ABOVE FLOOR

**SD** SMOKE DETECTOR  
CEILING MOUNTED

---

REMOVE STRUCTURE

DINING ROOM

REMOVE STRUCTURE

2 X 10'S @ 16" O.C.

2 X 8'S @ 24" O.C.

2 X 8 FACIA BOARD

4 X 8 RIDGE BEAM

3 ACCESSORY STORAGE STRUCTURE FLOOR FRAMING PLAN  
Scale: 1/4" = 1'-0"

4 ACCESSORY STORAGE STRUCTURE ROOF FRAMING PLAN  
Scale: 1/4" = 1'-0"

## •Second Floor Plan

# Building PERMIT

# Aguilar Addition

**10341 NE 141st Pl**  
Kirkland WA 98034

- Building Section

# Building PERMIT

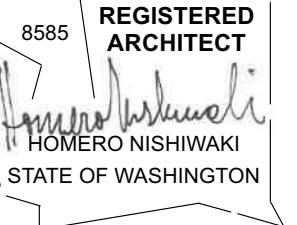
October 5, 2021

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**LN** LIEN  
NISHIWAKI  
ARCHITECTS  
homero@ln-arc.com - 206.321.1449

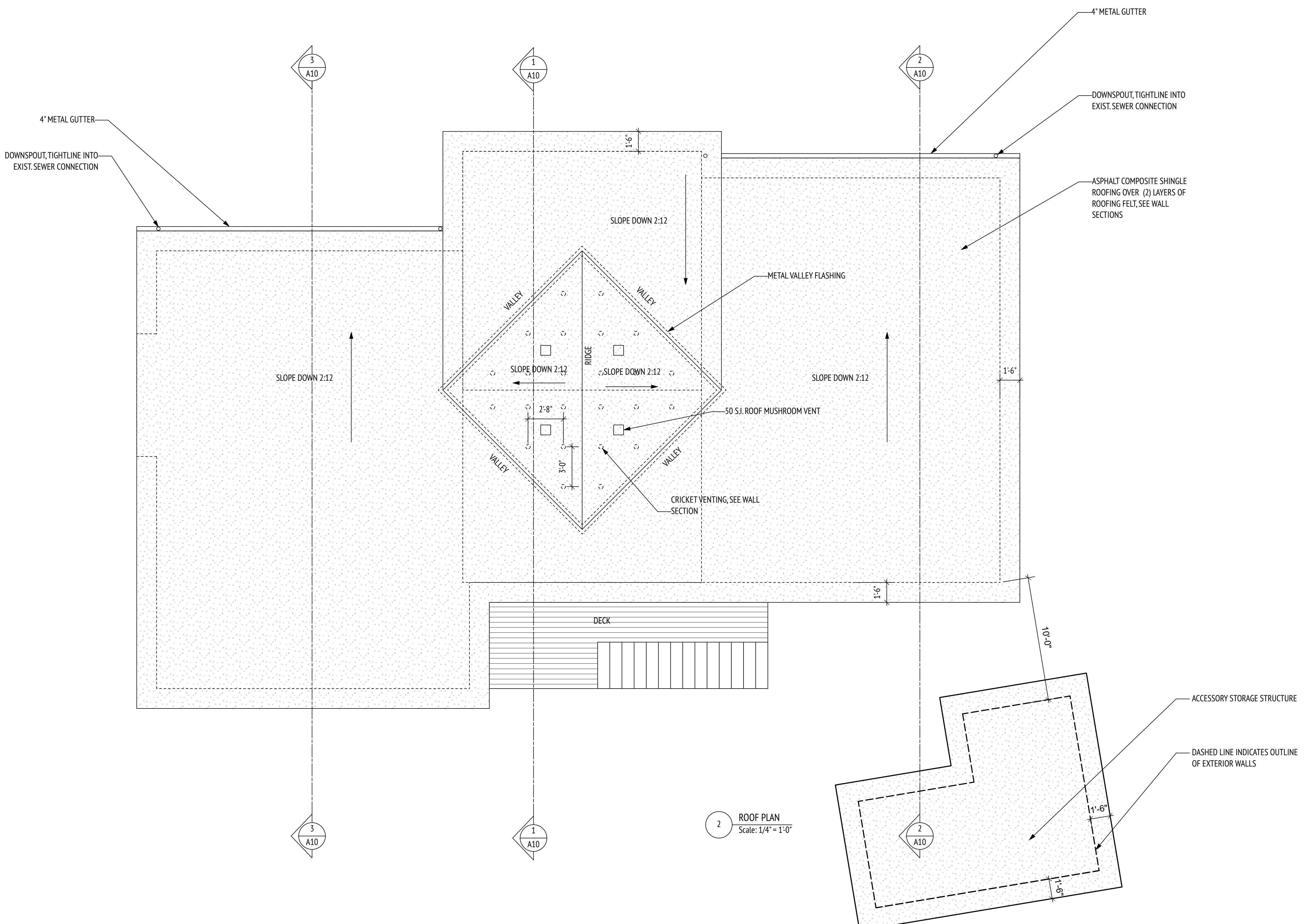
# Aguilar Addition

**10341 NE 141st Pl**  
Kirkland WA 98034



2 PERMIT REVISION 08/29/2023

1 PERMIT REVISION 08/09/2023



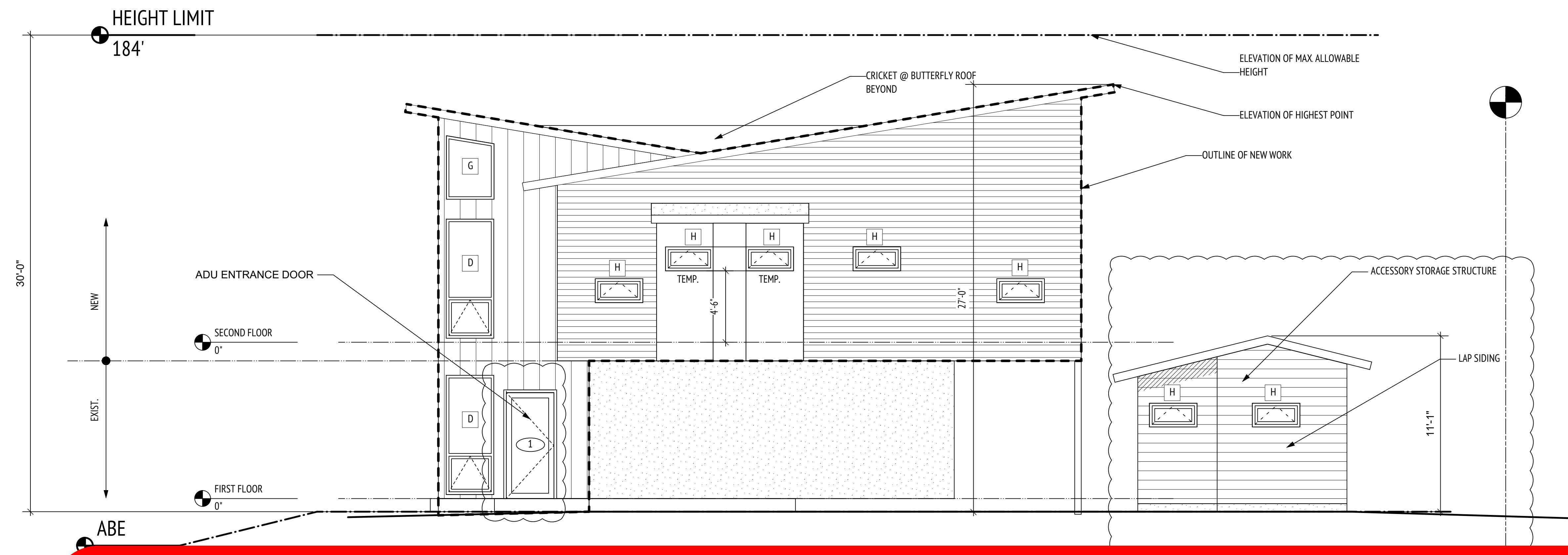
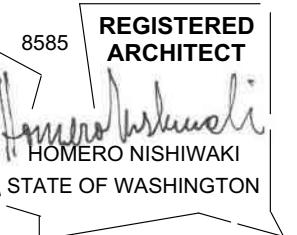
## •Building Section

# Building PERMIT

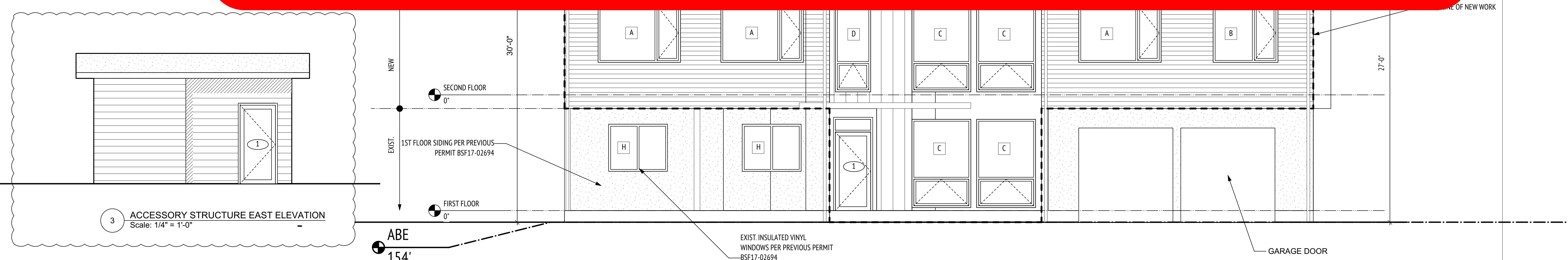
October 5, 2021

**Aguilar  
Addition**

10341 NE 141st PI  
Kirkland WA 98034



**SUPERSEDED**



•Elevations

Building PERMIT  
October 5, 2021

A8

# INSERT REVISED PAGES INTO APPROVED SET 08/31/2023

The logo consists of a large, stylized blue 'L' and 'N' stacked vertically, with a horizontal line connecting the top of the 'L' to the middle of the 'N'.

LIEN

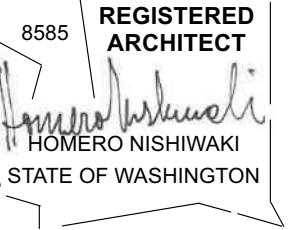
NISHIWAKI

ARCHITECTS

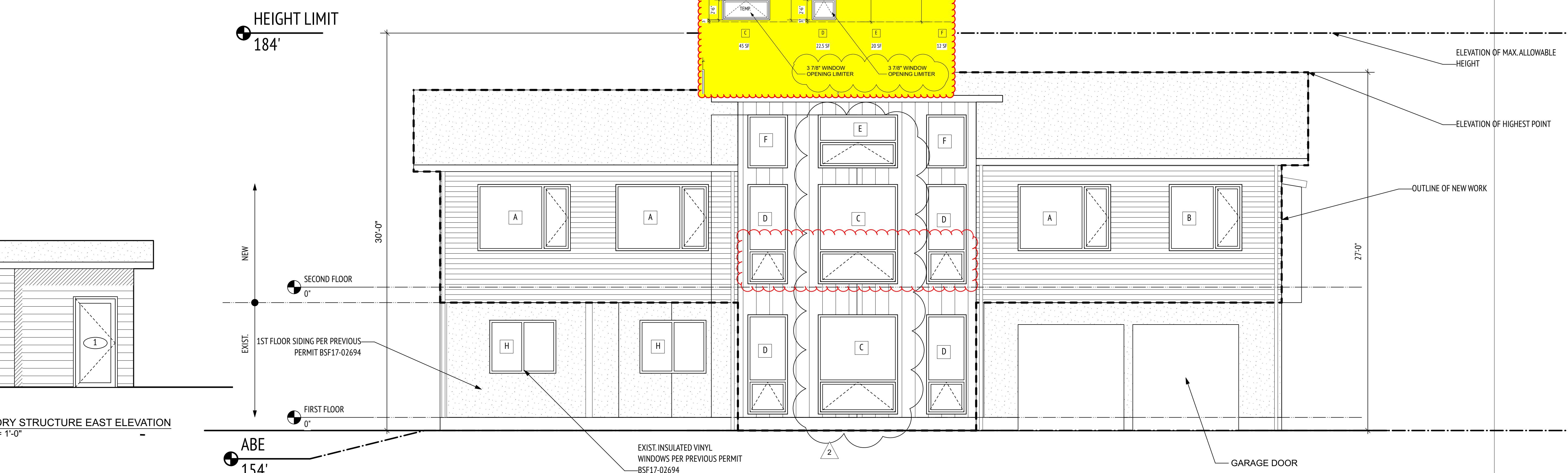
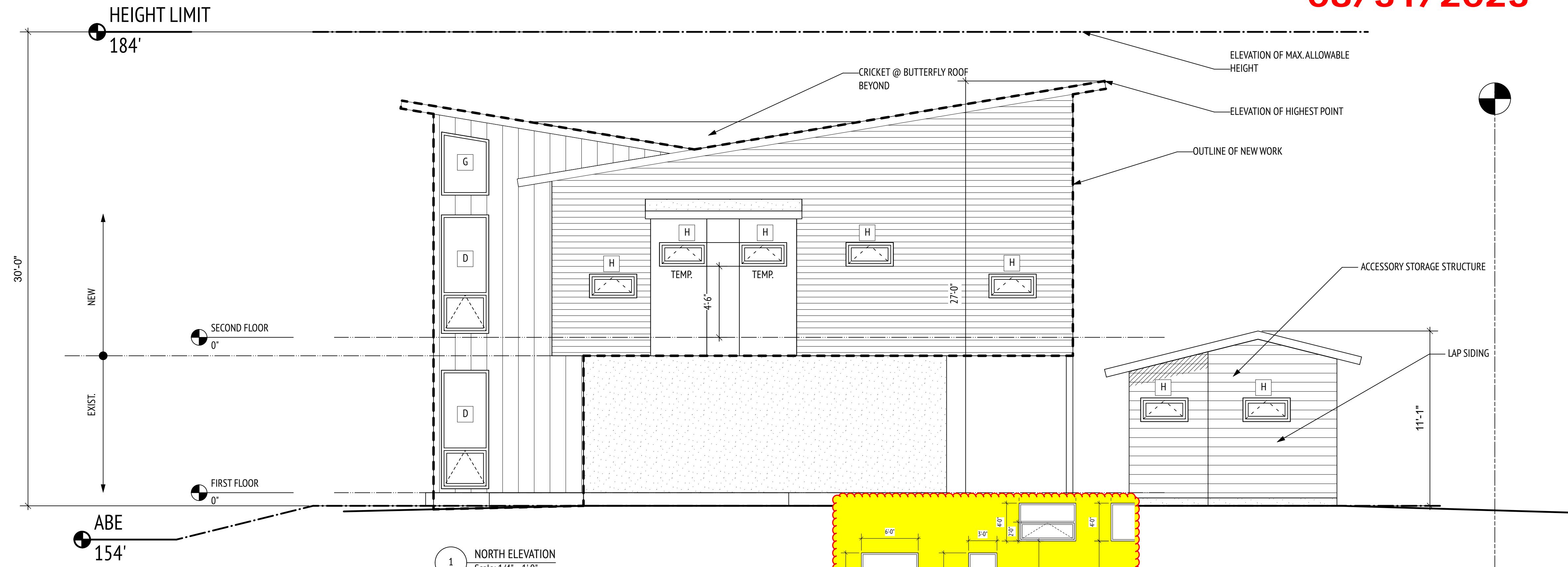
homero@ln-arc.com - 206.321.1449

# Aguilar Addition

**10341 NE 141st Pl**  
Kirkland WA 98034



PERMIT REVISION 08/29/2023



- Elevations

# Building PERMIT

BSF21-07891\_Approved Plans\_Aguilar\_Post Rev 1\_8.31.2023\_Page 7 of 15

A8

# Aguilar Addition

**10341 NE 141st Pl**  
Kirkland WA 98034

Architectural elevation drawing of a house showing height restrictions and building details. The drawing includes a red base line at the bottom, a vertical height limit line on the left, and a horizontal height limit line at the top. Key features include:

- HEIGHT LIMIT:** 184' (Elevation of Max. Allowable Height).
- ELEVATION OF HIGHEST POINT:** 30'-0" (indicated by a dashed line).
- OUTLINE OF NEW WORK:** A dashed line representing the proposed addition.
- SECOND FLOOR:** Indicated by a circle at 0' height.
- EXIST.:** Indicated by a circle at 0' height.
- FIRST FLOOR:** Indicated by a circle at 0' height.
- LAP SIDING:** Shown on the lower portion of the house.
- ACCESSORY STORAGE STRUCTURE:** A small building with a door labeled 'D'.
- CRICKET @ BUTTERFLY ROOF BEYOND:** A dashed line representing the roofline of an adjacent building.
- WALLS:** Shown as vertical lines with horizontal cross-hatching.
- ROOF:** Shown as a sloped line with a dashed line representing the new addition's roofline.
- WALL OPENINGS:** Shown as rectangular cutouts in the wall lines.

# SUPERSEDED

OUTLINE

HEIGHT LIMIT  
184'

ELEVATION OF MAX ALLOWABLE HEIGHT

ELEVATION OF HIGHEST POINT

30'-0"

27'-0"

NEW

EXIST.

SECOND FLOOR  
0"

FIRST FLOOR  
0"

NEW STRUCTURAL POSTS

19 EQ. RISERS @ 7"

18 EQ. TREADS @ 11"

1ST FLOOR SIDING PER PREVIOUS PERMIT BSF17-02694

NEW DECK

NEW METAL GUARDRAIL

ACCESSORY STORAGE STRUCTURE

LA SING

154'

ABE

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

- Elevations

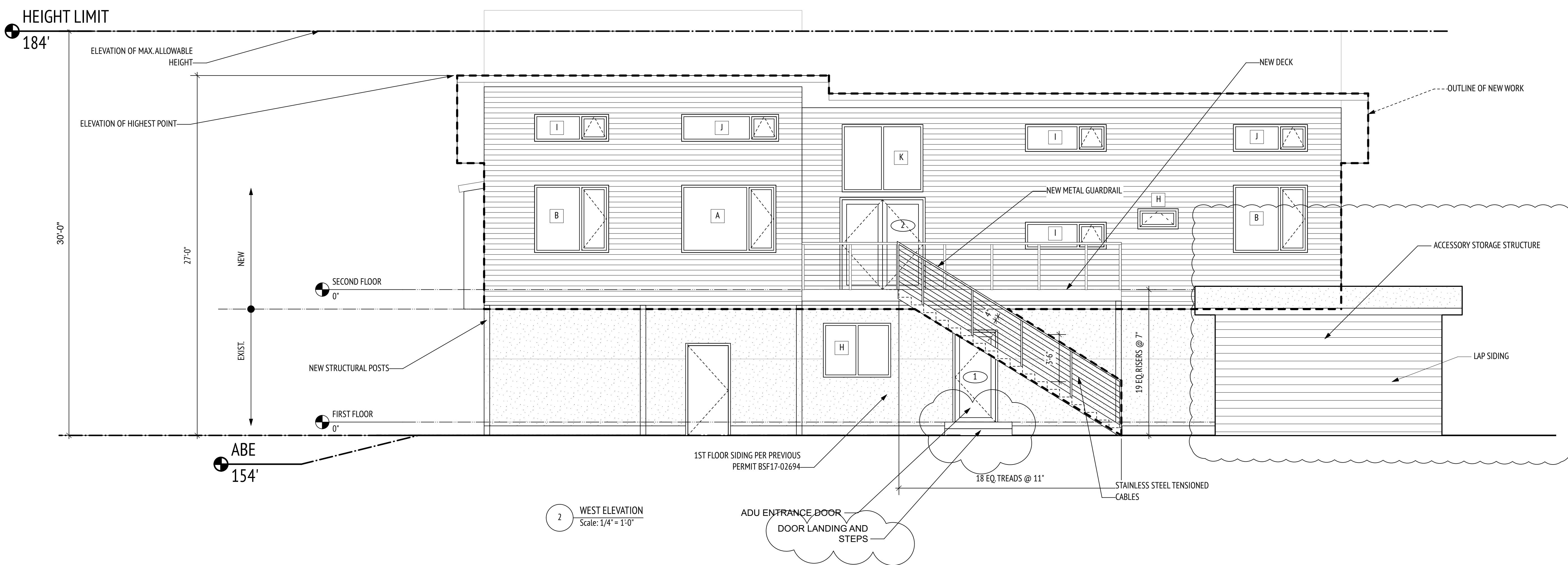
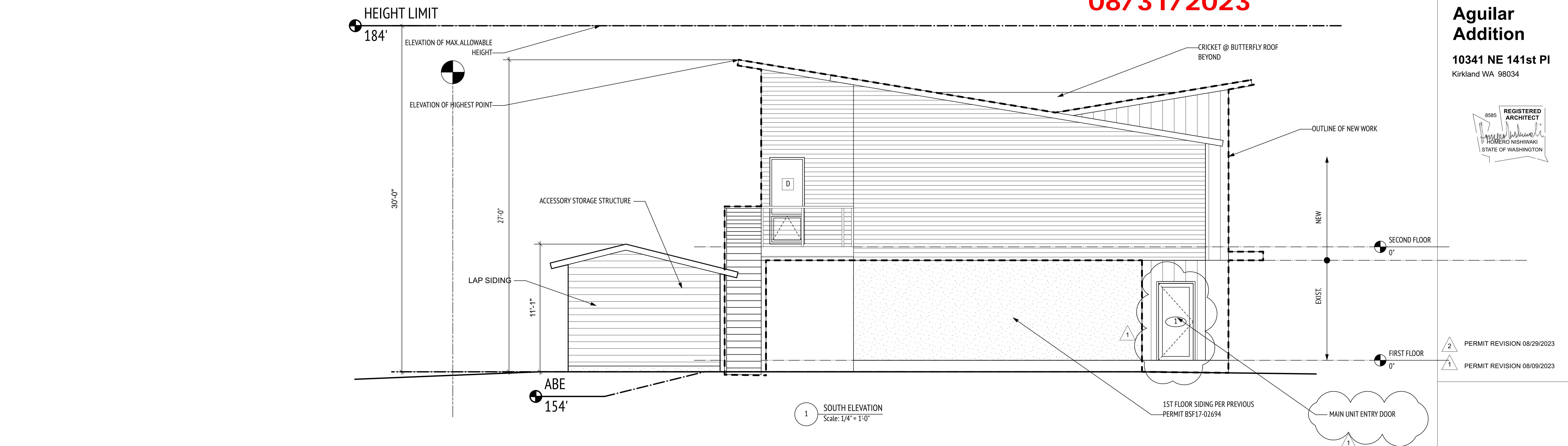
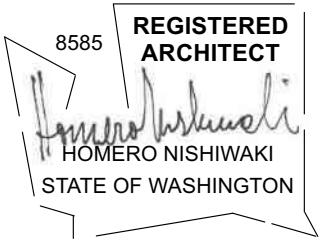
# Building PERMIT

October 5, 2021

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Aguilar  
Addition

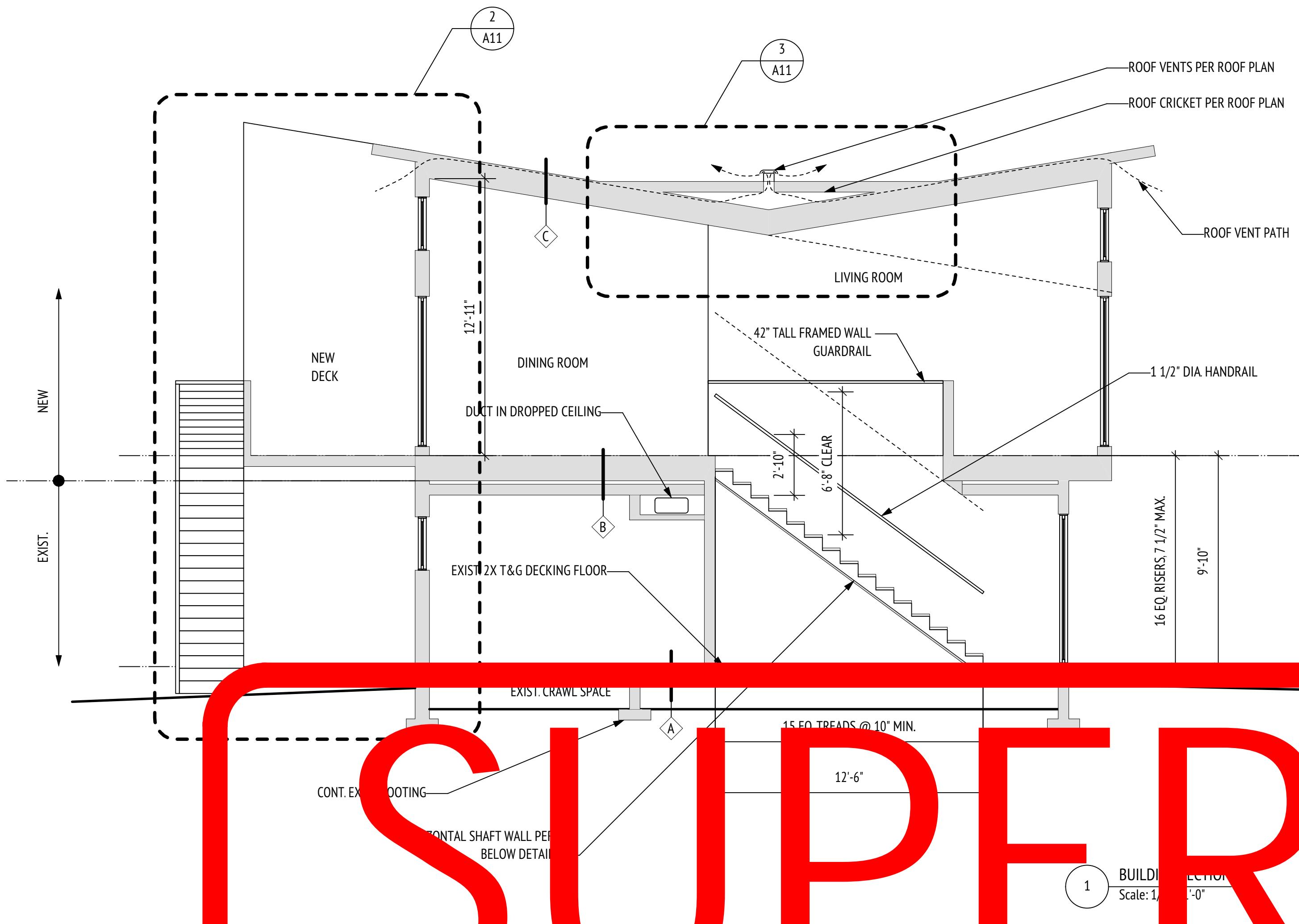
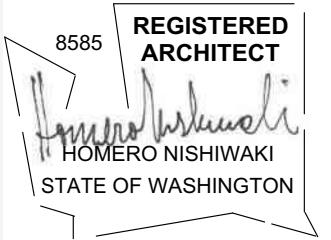
10341 NE 141st PI  
Kirkland WA 98034



•Elevations

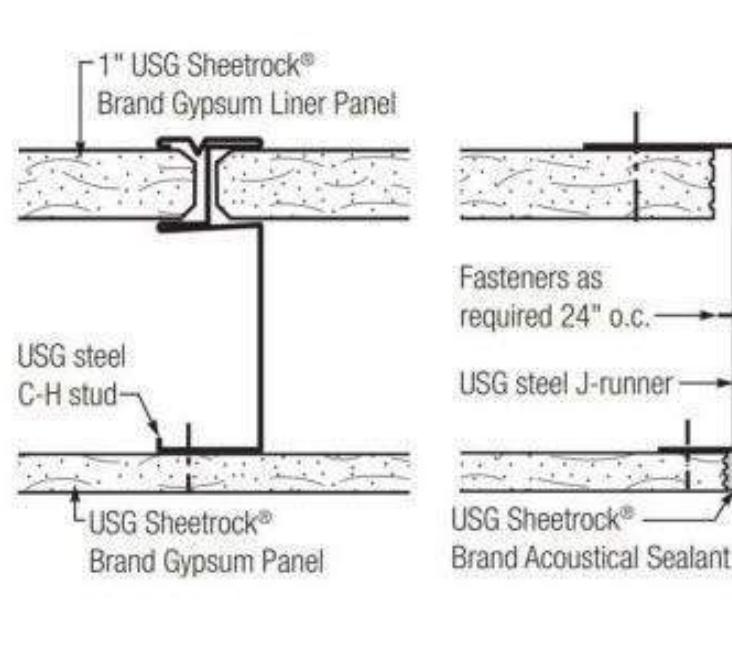
Building PERMIT  
October 5, 2021

A9



Assembly with Single-Layer 5/8" Gypsum Panels

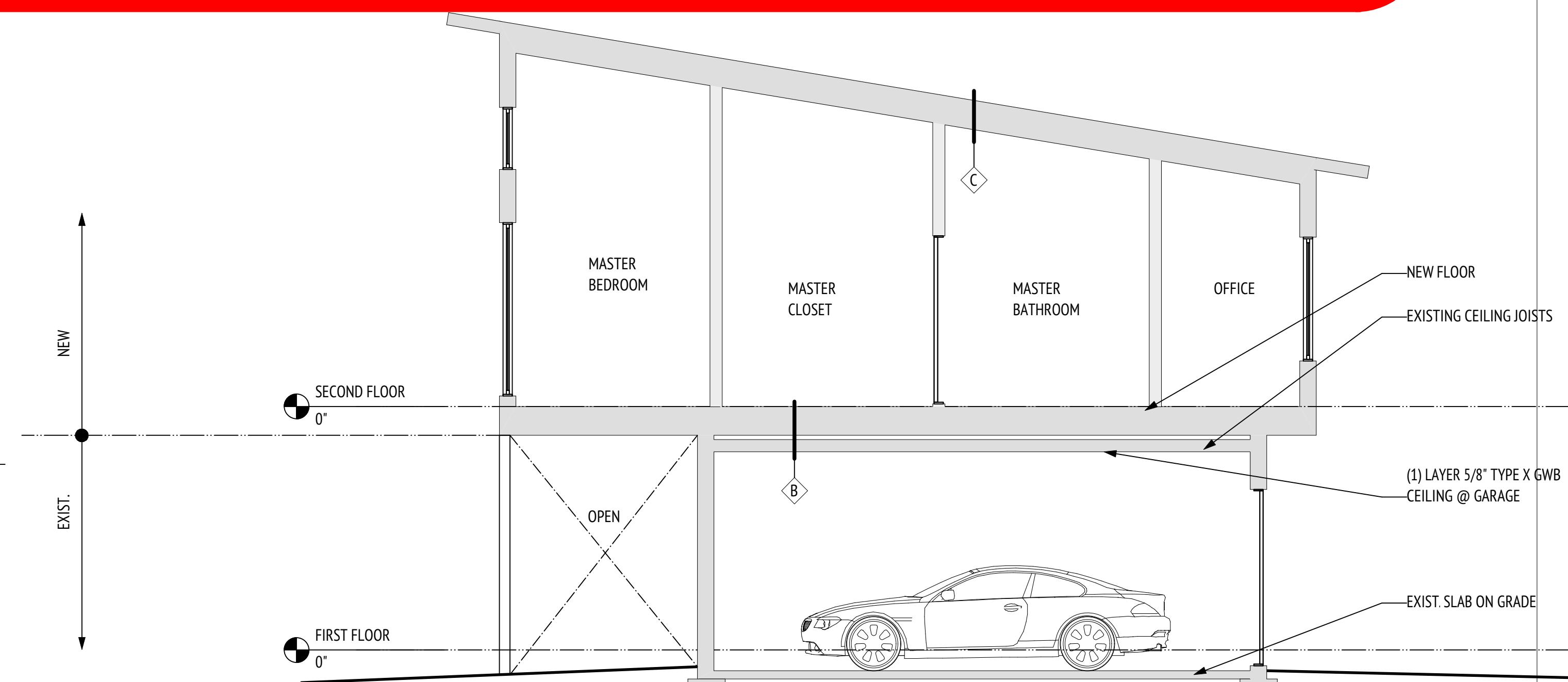
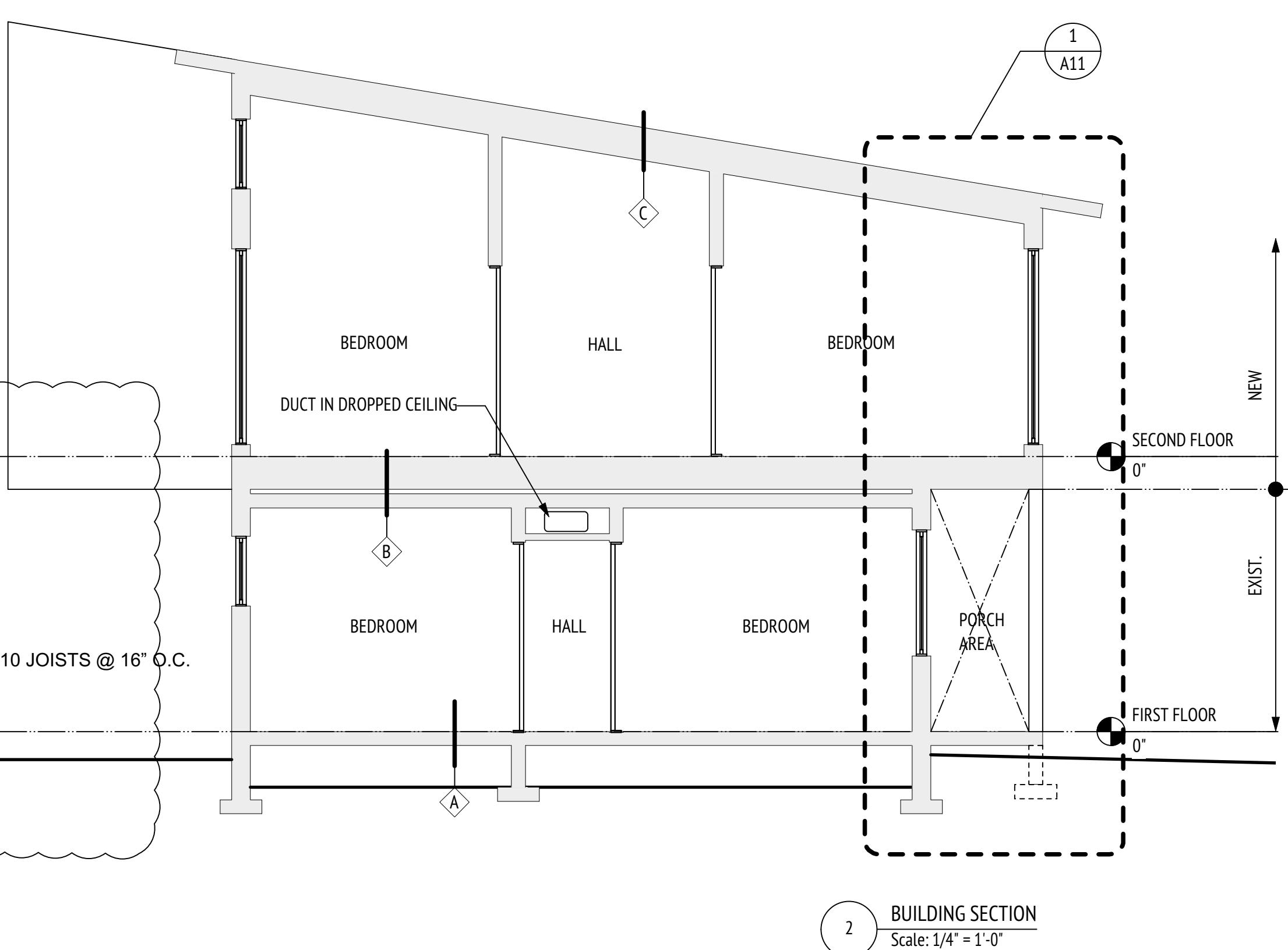
Ceiling Membrane of 1-Hour Corridor



Stud Steel Member Designation	Limiting Span
212CH25-18	8' 6"
400CH25-18	9' 3"
212CH20-34	10' 4"
400CH20-34	14' 11"
600CH20-34	20' 10"

LEGEND

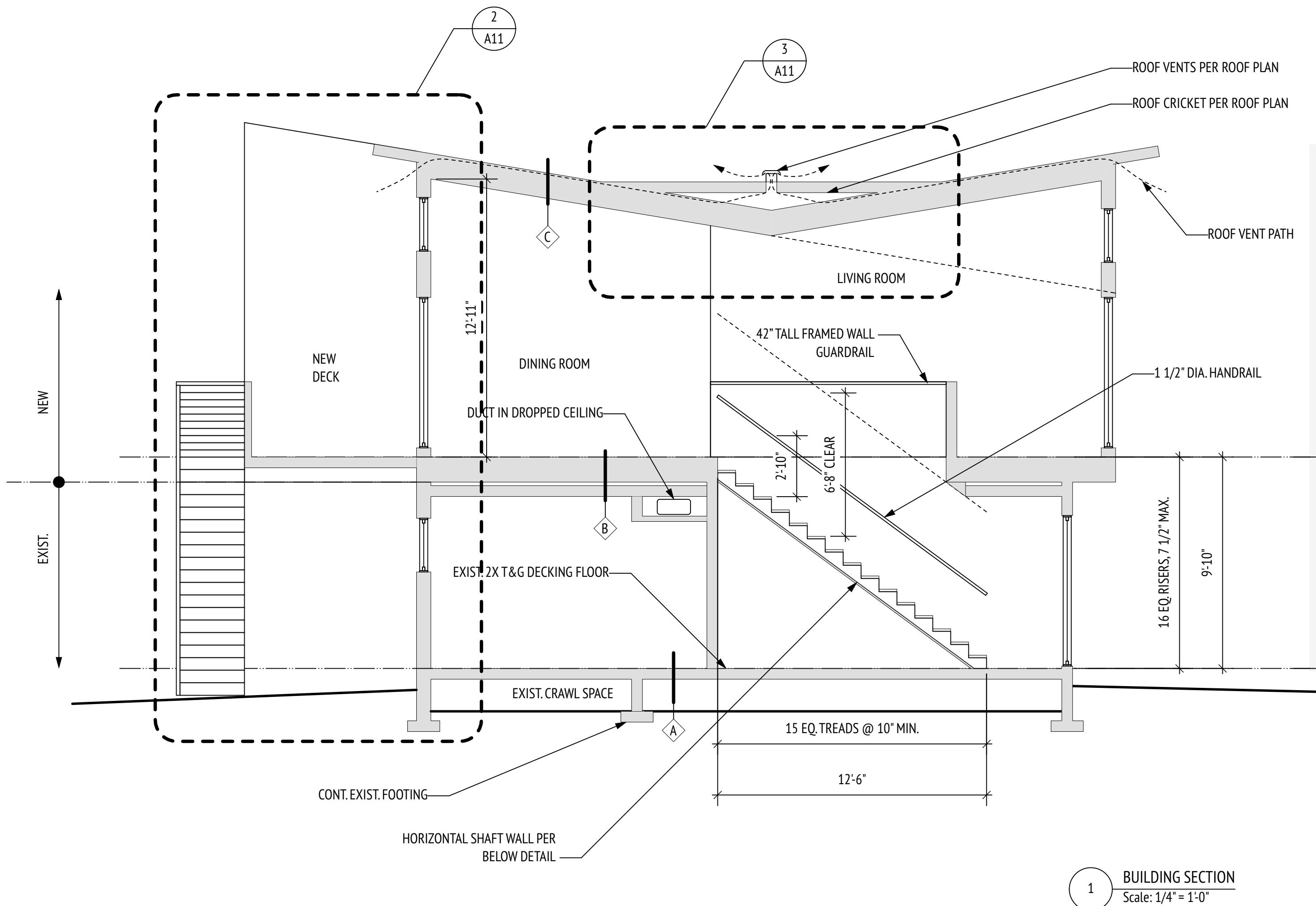
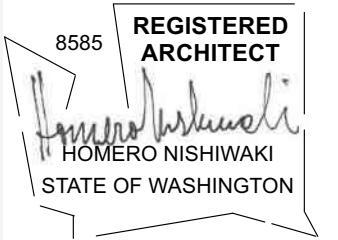
◊ FLOOR/CEILING TYPE, SEE 6 A12



Building PERMIT  
October 5, 2021

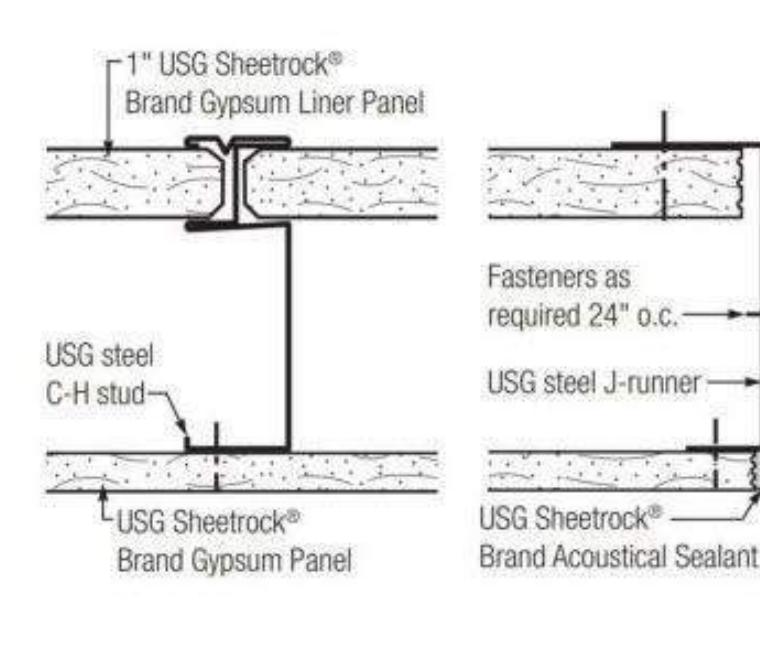
A10

**INSERT REVISED PAGES  
INTO APPROVED SET  
08/31/2023**



Assembly with Single-Layer 5/8" Gypsum Panels

Ceiling Membrane of 1-Hour Corridor



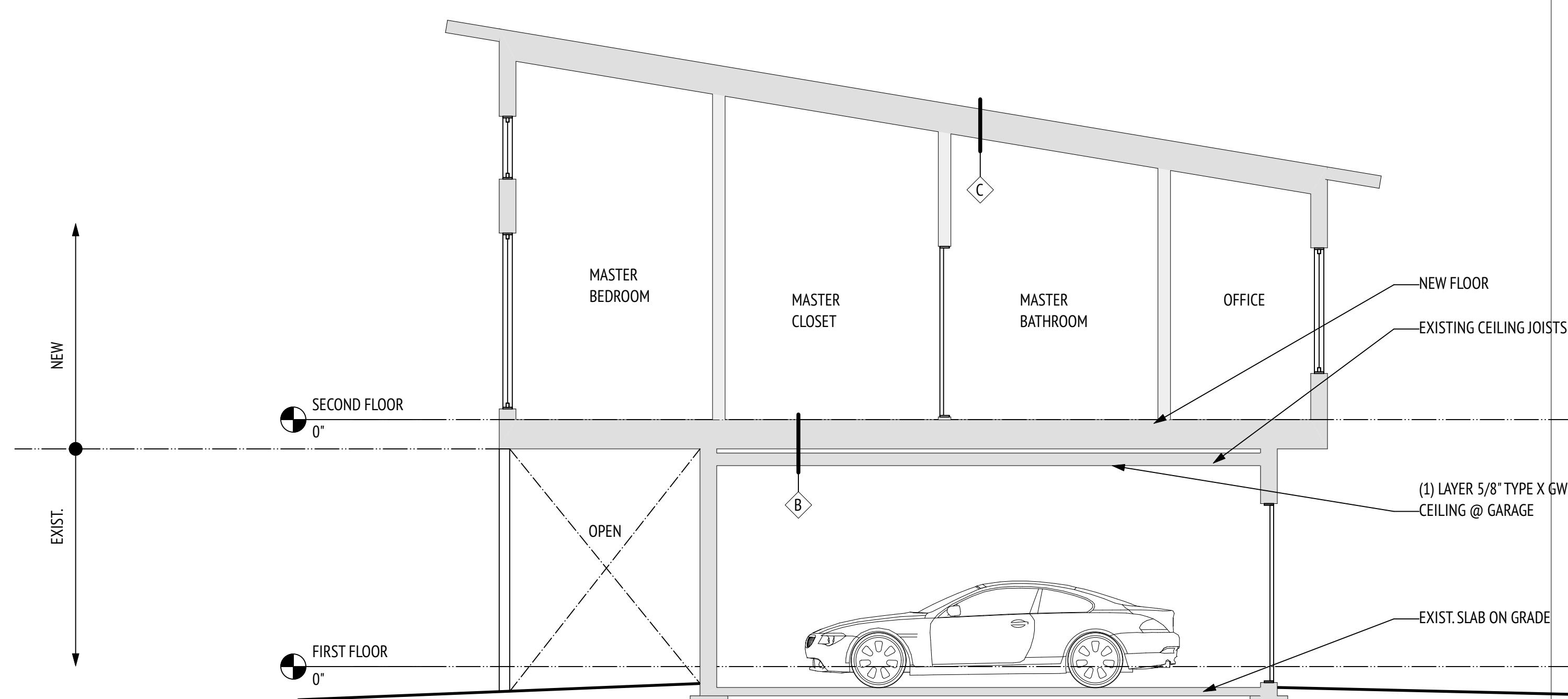
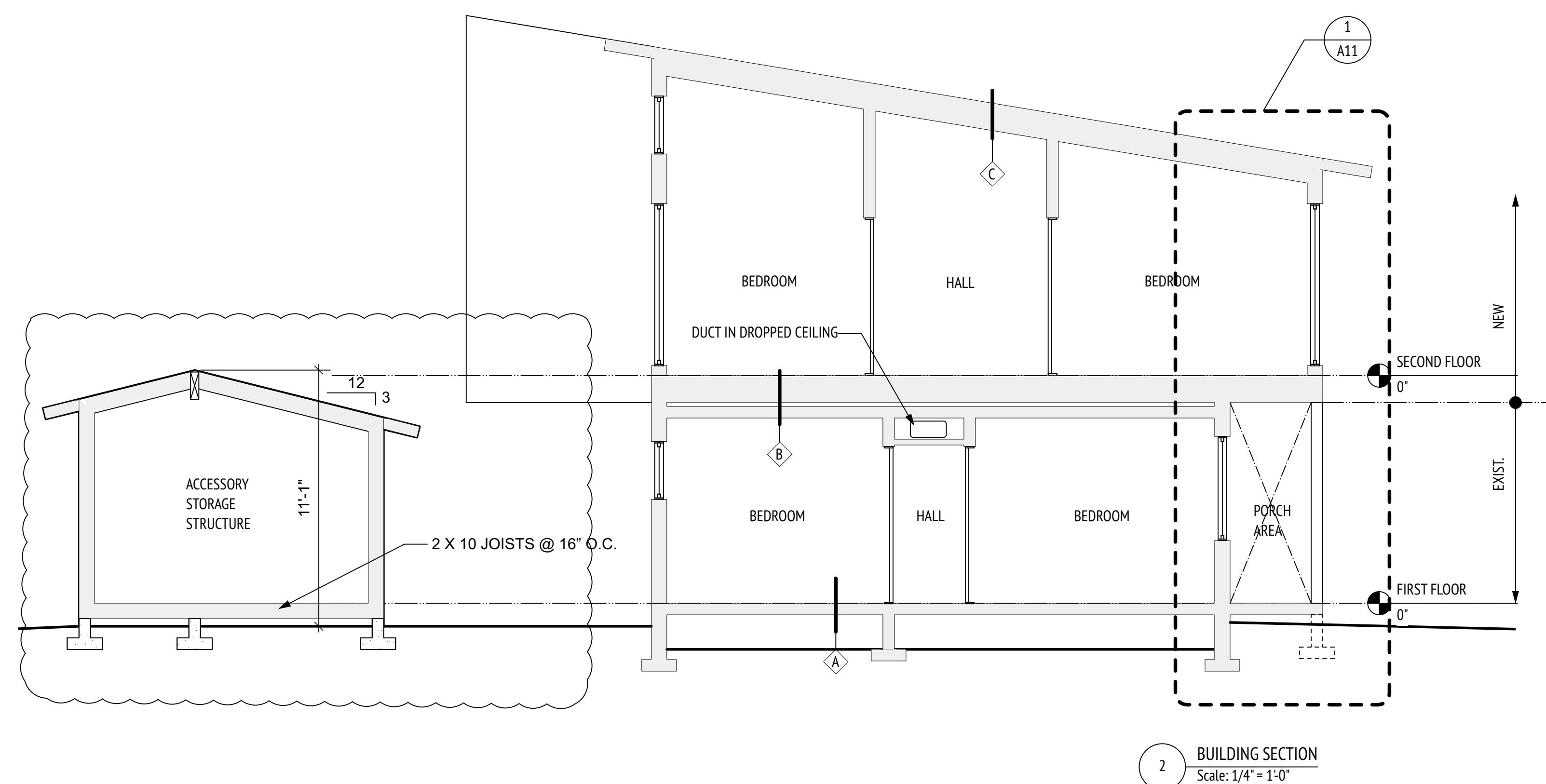
Stud Steel Member Designation	Limiting Span
212CH25-18	8' 6"
400CH25-18	9' 3"
212CH20-34	10' 4"
400CH20-34	14' 11"
600CH20-34	20' 10"

2 PERMIT REVISION 08/29/2023

1 PERMIT REVISION 08/09/2023

LEGEND

NEW FLOOR/CEILING TYPE, SEE 6 A12

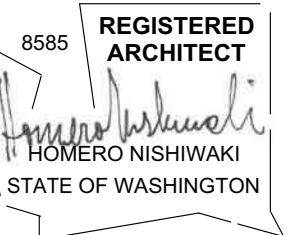


Building PERMIT  
October 5, 2021

**A10**

**Aguilar  
Addition**

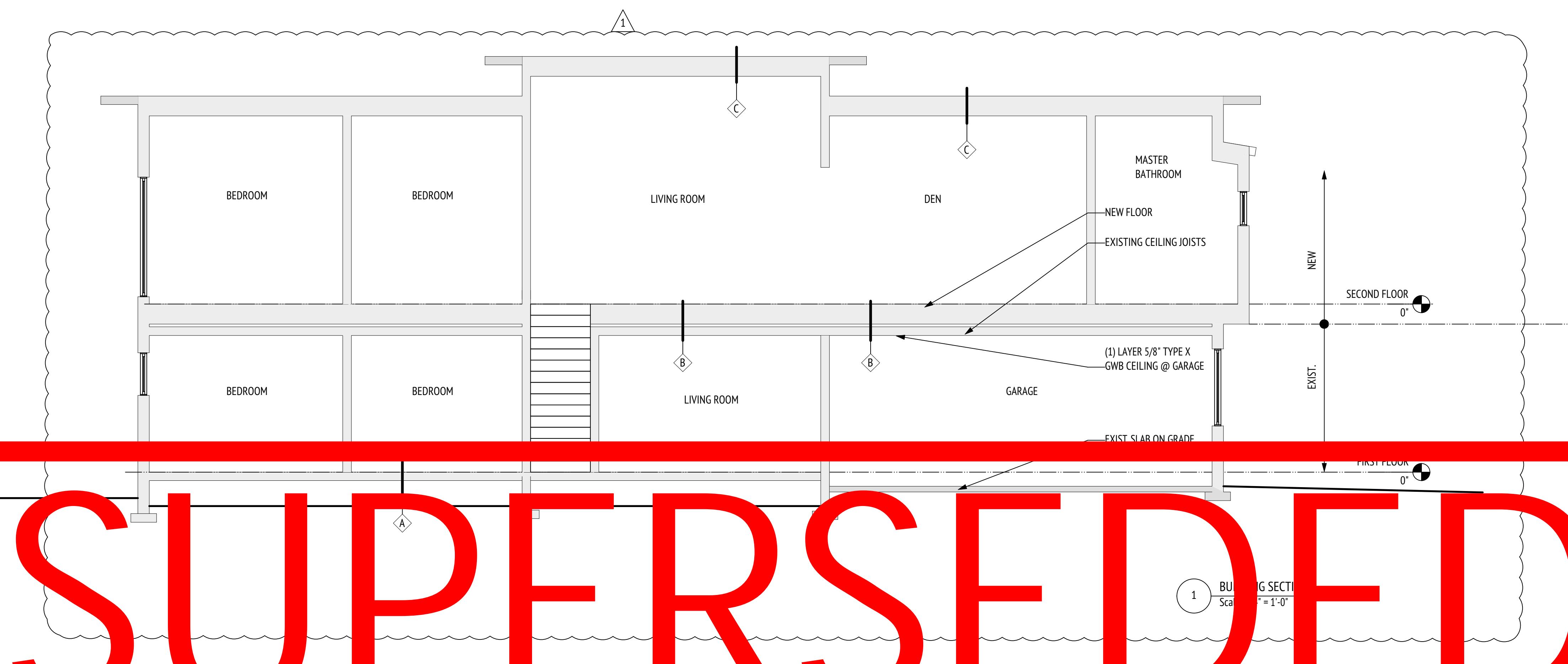
10341 NE 141st PI  
Kirkland WA 98034



1 PERMIT CORRECTIONS 7/13/2018

LEGEND

❖ FLOOR/CEILING TYPE, SEE 6  
A12



•Building Section

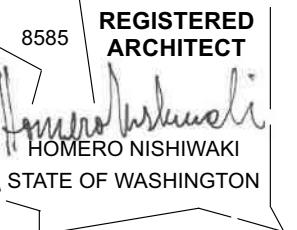
Building PERMIT  
October 5, 2021

**A10.1**

INSERT REVISED PAGES  
INTO APPROVED SET  
08/31/2023

**Aguilar  
Addition**

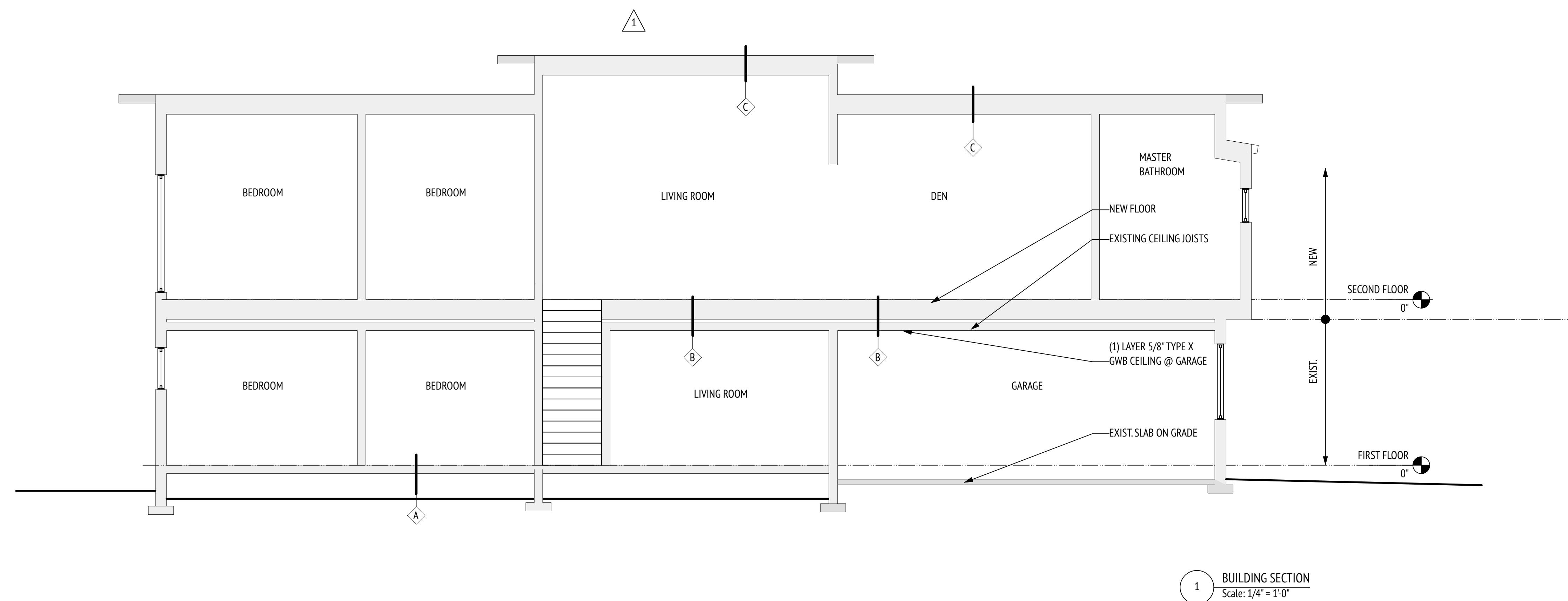
10341 NE 141st PI  
Kirkland WA 98034



2 PERMIT REVISION 08/29/2023  
41 PERMIT CORRECTIONS 7/13/2018  
3 PERMIT REVISION 08/09/2023

LEGEND

FLOOR/CEILING TYPE, SEE 6 A12



1 BUILDING SECTION  
Scale: 1/4" = 1:0"

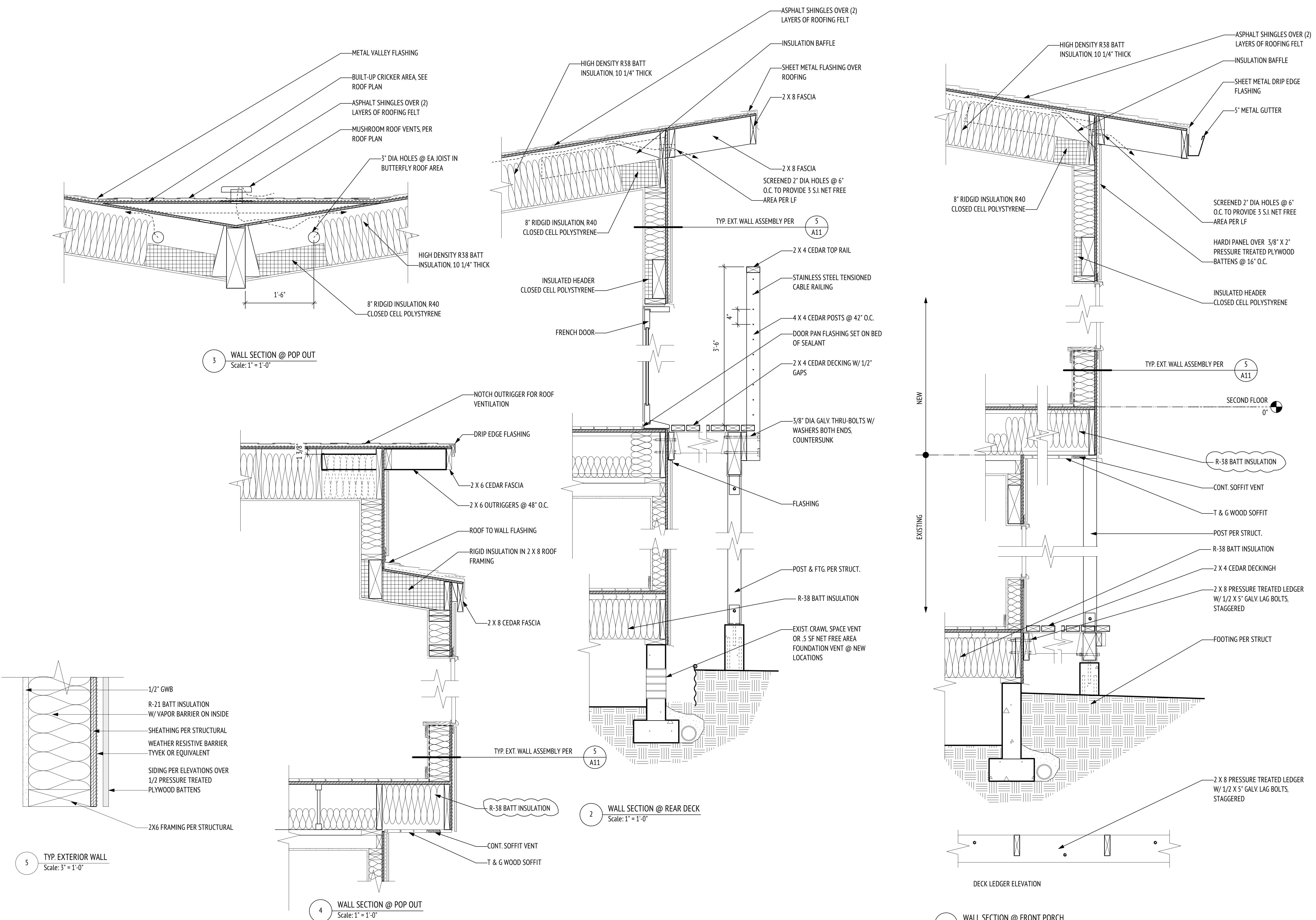
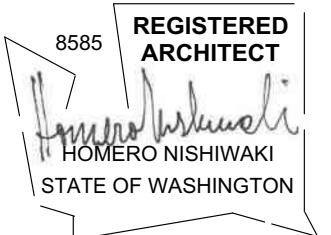
•Building Section

Building PERMIT  
October 5, 2021

**A10.1**

**Aguilar  
Addition**

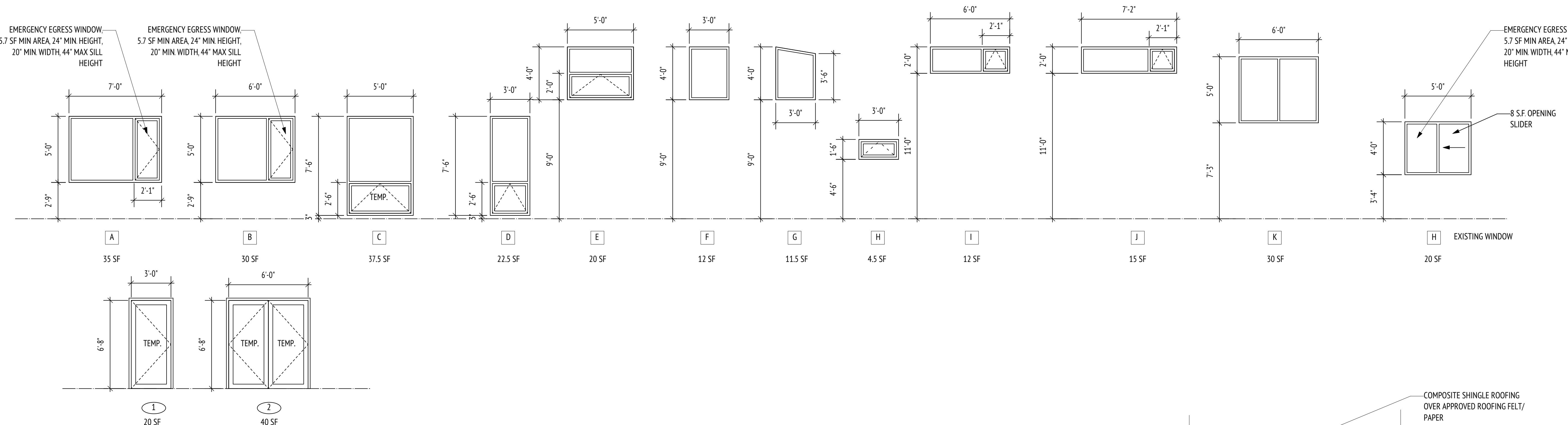
10341 NE 141st PI  
Kirkland WA 98034



•Wall Sections

Building PERMIT  
October 5, 2021

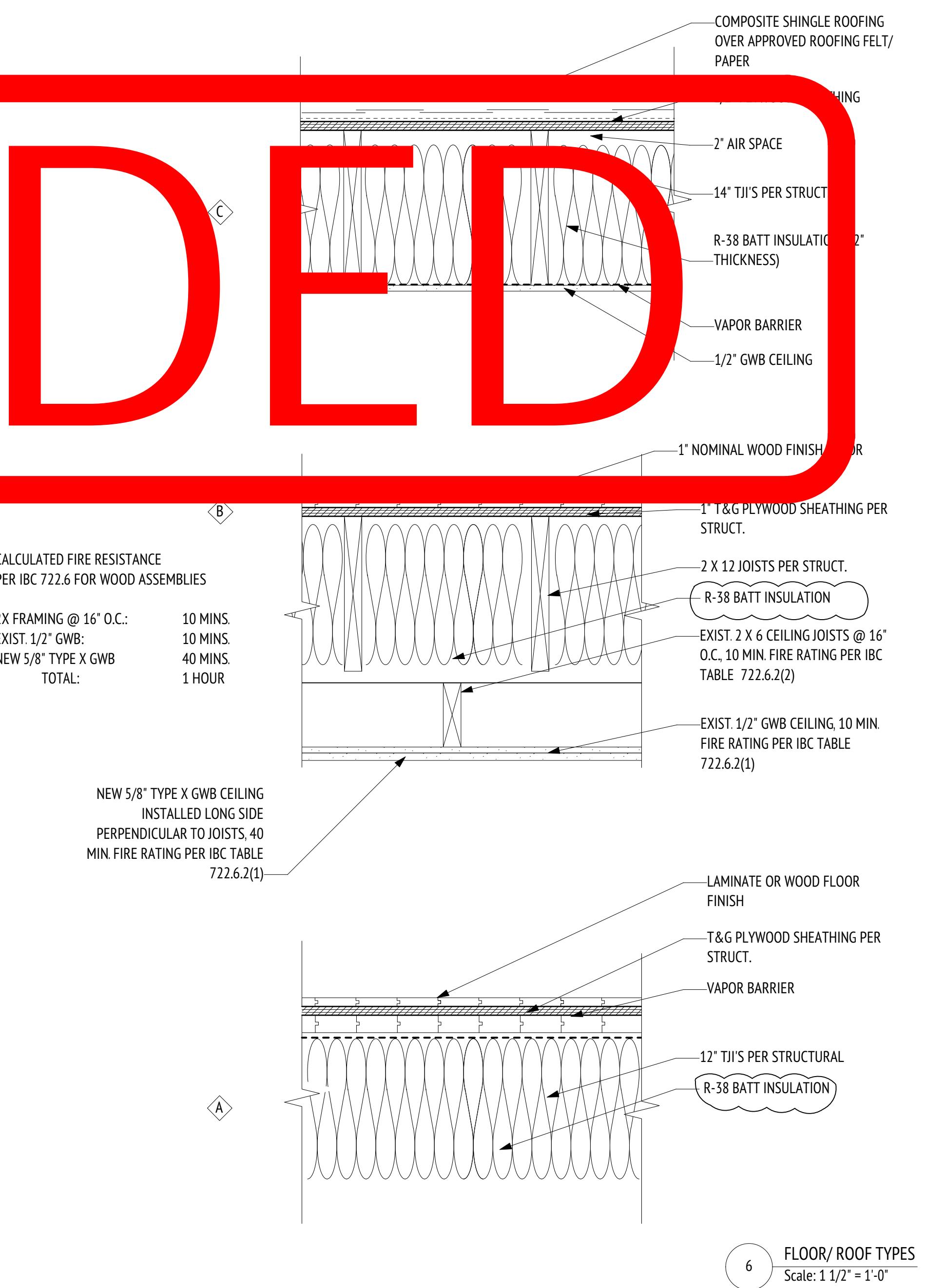
**A11**



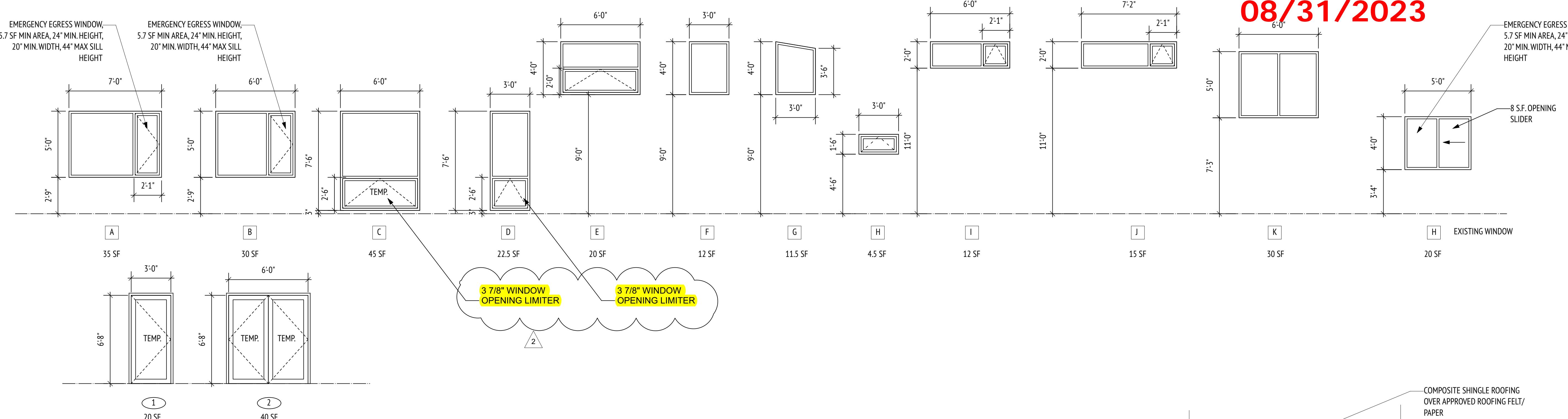
WINDOW SCHEDULE						
TAG	QUANTITY	SIZE (W X H)	SWING AREA	MATERIAL	TYPE	U-VALUE
A	1	7'-0" X 5'-0"		VINYL	FIXED/ CASE OUT	.28 MAX
B	3	7'-0" X 5'-0"		VINYL	FIXED	.28 MAX
C	4	3'-0" X 6"		VINYL	FIXED	.28 MAX
D	4	3'-0" X 6"		VINYL	FIXED/ AWN	.28 MAX
E	2	5'-0" X 3'-0"		VINYL	FIXED/ AWN	.28 MAX
F	1	3'-0" X 3'-0"		VINYL	FIXED	.28 MAX
G	1	3'-0" X 3'-0"		VINYL	AWNING	.28 MAX
H	6	3'-0" X 2'-0"		VINYL	FIXED/ AWN	.28 MAX
I	1	6'-0" X 2'-0"	12	VINYL	FIXED/ AWN	.28 MAX
J	1	6'-0" X 2'-0"	15	VINYL	FIXED/ AWN	.28 MAX
K	1	6'-0" X 5'-0"	30	VINYL	FIXED	.28 MAX
						1" DBL. PANE, LOW-E
1	1	2'-0" X 6'-0"	20	VINYL	SINGLE SWING	.28 MAX
						1" DBL. PANE, LOW-E, TEMPERED PER ELEVATIONS

**NOTES:**

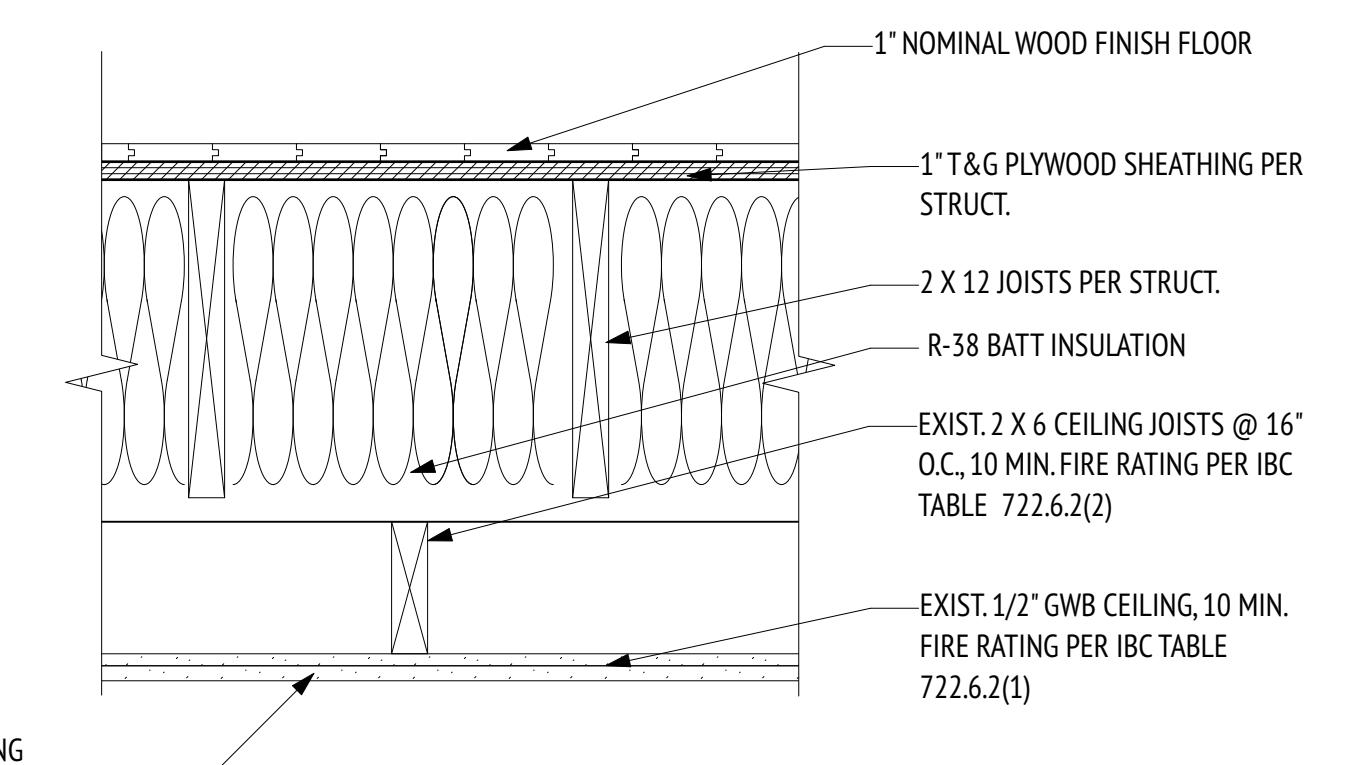
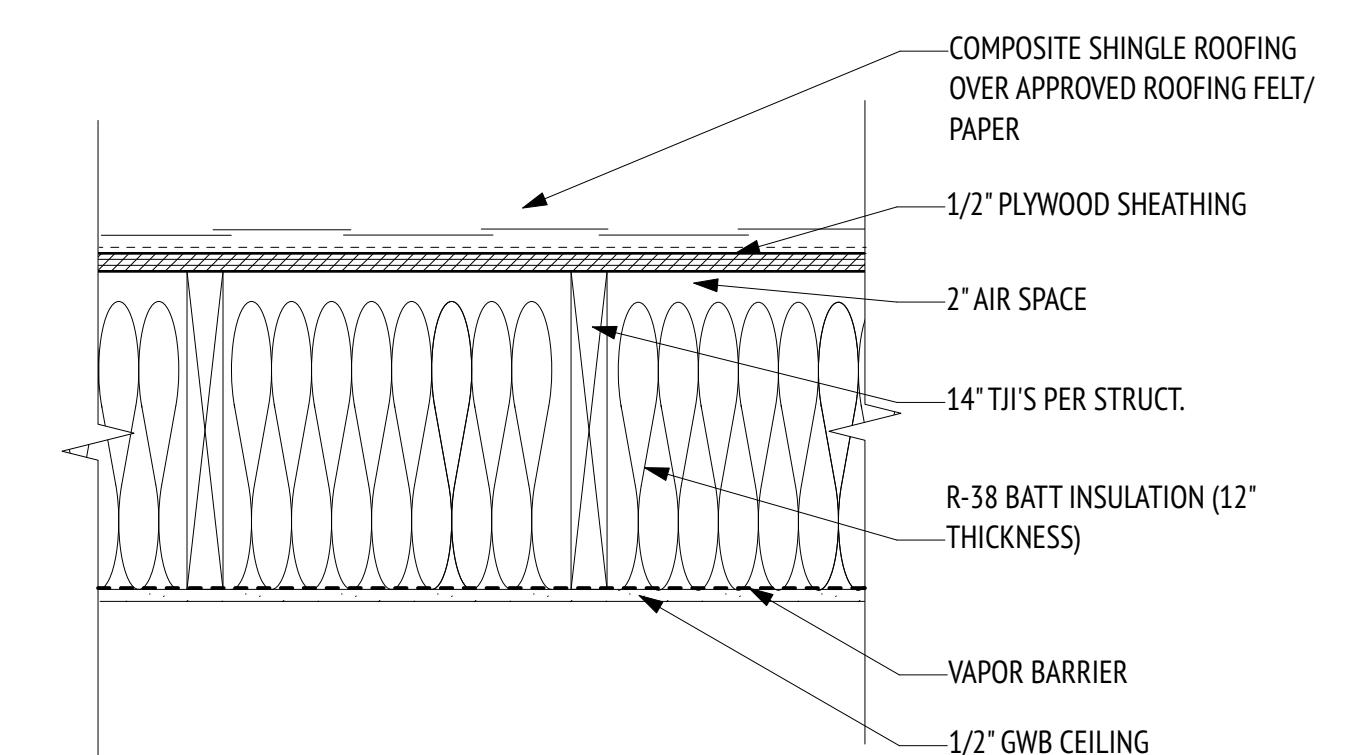
1 WINDOW & DOOR ELEVATIONS & SCHEDULE  
Scale: Actual Size



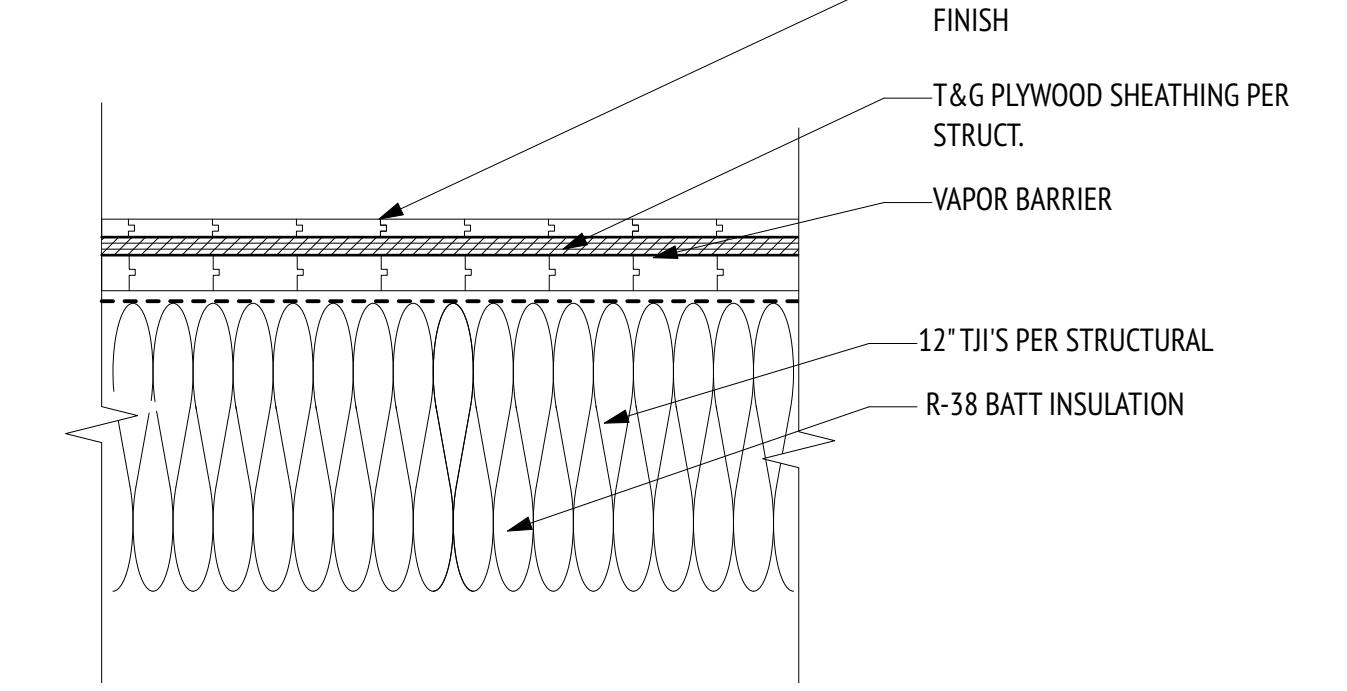
# INSERT REVISED PAGES INTO APPROVED SET 08/31/2023



2 PERMIT REVISION 08/29/2023  
1 PERMIT REVISION 08/09/2023



NEW 5/8" TYPE X GB CEILING INSTALLED LONG SIDE PERPENDICULAR TO JOISTS, 40 MIN. FIRE RATING PER IBC TABLE 722.6.2(1)



6 FLOOR/ROOF TYPES  
Scale: 1 1/2" = 1'-0"

•Site Plan  
•Notes

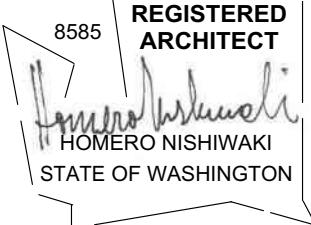
Building PERMIT

October 5, 2021

A12

**Aguilar  
Addition**

10341 NE 141st Pl  
Kirkland WA 98034



**SPECIAL INSPECTION  
REQUIRED**

**ALL Welding:**

Is required to be done by a WABO certified welder and have Special Inspections by a WABO certified Inspection Agency or Be done in a WABO certified fabrication shop.

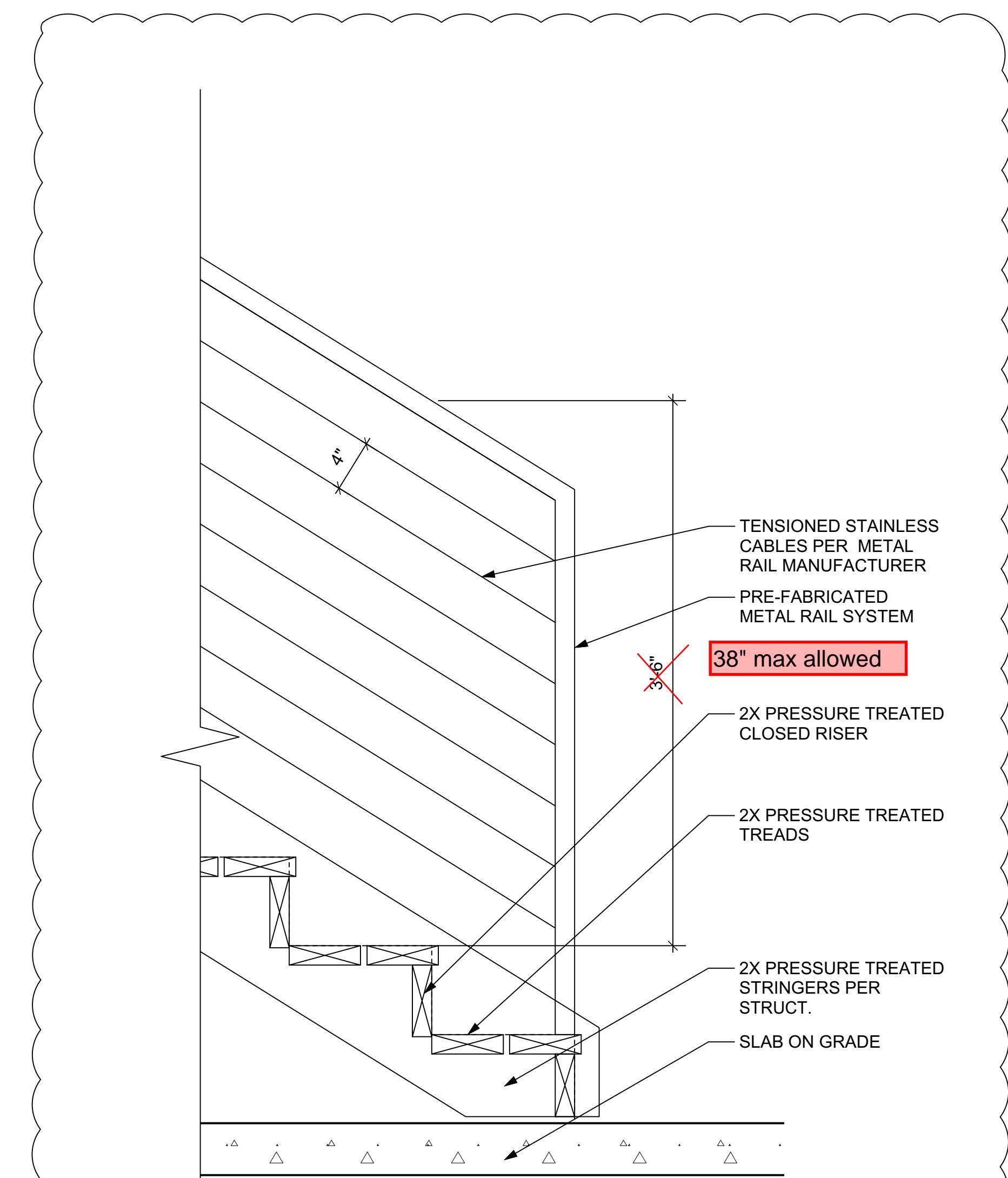
Have either the special inspection report or the WABO fabrication shop certification available on site for the Building Inspector.

**R303.8Exterior stairway illumination.**  
Exterior stairways shall be provided with an artificial light source located at the top landing of the stairway. Stairway illumination shall receive primary power from the building wiring.

**R311.7.5.1Risers.**  
The riser height shall be not more than 73/4 inches (196 mm). The riser shall be measured vertically between leading edges of the adjacent treads.

**R311.7.5.2Treads.**  
The tread depth shall be not less than 10 inches (254 mm)

**R311.7.8.1Height.**  
Handrail height, measured vertically from the sloped plane adjoining the tread nosing, or finish surface of ramp slope, shall be not less than 34 inches (864 mm) and not more than 38 inches (965 mm).



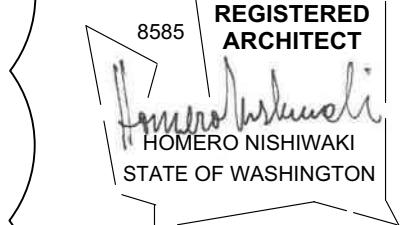
1 EXTERIOR STAIR DETAIL  
Scale: 1 1/2" = 1'-0"

- Site Plan
- Notes

Building PERMIT  
October 5, 2021

**A12.1**





2018 Washington State Energy Code – Residential  
Prescriptive Energy Code Compliance for All Climate Zones in Washington  
Single Family – New & Additions (effective February 1, 2021) Version 1.0

These requirements apply to all IRC building types, including detached one- and two-family dwellings and multiple single-family dwellings (townhouses).

<b>Project Information</b>	<b>Contact Information</b>
Aguilar Addition Lower Unit 10341 NE 141st Pl	Homero Nishiwaki homero@ln-arc.com

Instructions: This single-family project will use the requirements of the Prescriptive Path below and incorporate the minimum values listed. Based on the size of the structure, the appropriate number of additional credits are checked as chosen by the permit applicant.

Provide all information from the following tables as building permit drawings: Table R402.1 - Insulation and Fenestration Requirements by Component, Table R406.2 - Fuel Normalization Credits and 406.3 - Energy Credits.

Authorized Representative	Date 01/11/2021
---------------------------	-----------------

**All Climate Zones (Table R402.1.1)**

	R-Value <sup>a</sup>	U-Factor <sup>a</sup>
Fenestration U-Factor <sup>b</sup>	n/a	0.30
Skylight U-Factor <sup>b</sup>	n/a	0.50
Glazed Fenestration SHGC <sup>b,c</sup>	n/a	n/a
Ceiling <sup>e</sup>	49	0.026
Wood Frame Wall <sup>b,h</sup>	21 int	0.056
Floor	30	0.029
Below Grade Wall <sup>b,h</sup>	10/15/21 int + TB	0.042
Slab <sup>d,f</sup> R-Value & Depth	10, 2 ft	n/a

<sup>a</sup> R-values are minimums. U-factors and SHGC are maximums. When insulation is installed in a cavity that is less than the label or design thickness of the insulation, the compressed R-value of the insulation from Appendix Table A101.4 shall not be less than the R-value specified in the table.  
<sup>b</sup> The Fenestration U-factor column excludes skylights.  
<sup>c</sup> "10/15/21 +5TB" means 10 continuous insulation on the exterior of the wall, or R-15 continuous insulation on the interior of the wall, or R-21 cavity insulation plus a thermal break between the slab and the basement wall at the interior of the basement wall.  
<sup>d</sup> R-10 continuous insulation is required under heated slab on grade floors. See Section R402.2.9.1.  
<sup>e</sup> For single-rafter- or joist-vaulted ceilings, the insulation may be reduced to R-38 if the full insulation depth extends over the top plate of the exterior wall.  
<sup>f</sup> R-7.5 continuous insulation installed over an existing slab is deemed to be equivalent to the required perimeter slab insulation when applied to existing slabs complying with Section R503.1.1. If foam plastic is used, it shall meet the requirements for thermal barriers protecting foam plastics.  
<sup>g</sup> For log structures developed in compliance with Standard ICC 400, log walls shall meet the requirements for climate zone 5 of ICC 400.  
<sup>h</sup> int. (intermediate framing) denotes framing and insulation as described in Section A103.2.2 including standard framing 16 inches on center, 78% of the wall cavity insulated and headers insulated with a minimum of R-10 insulation.

Prescriptive Path – Single Family 2018 Washington State Energy Code-R

2018 Washington State Energy Code – Residential  
Prescriptive Energy Code Compliance for All Climate Zones in Washington  
Single Family – New & Additions (effective February 1, 2021)

Each dwelling unit in a residential building shall comply with sufficient options from Table R406.2 (fuel normalization credits) and Table 406.3 (energy credits) to achieve the following minimum number of credits. To claim this credit, the building permit drawings shall specify the option selected and the maximum tested building air leakage, and show the qualifying ventilation system and its control sequence of operation.

- Small Dwelling Unit: 3 credits**  
Dwelling units with less than 1,500 sf in conditioned floor area with less than 300 sf of fenestration area. Additions to existing building that are greater than 500 sf of heated floor area but less than 1,500 sf.
- Medium Dwelling Unit: 6 credits**  
Large dwelling units that are not included in #1 or #3
- Large Dwelling Unit: 10 credits**  
Dwelling units exceeding 5,000 sf of conditioned floor area
- Additions less than 500 square feet: 1.5 credits**
- All other additions shall meet 1-3 above**

Before selecting your credits on this Summary table, review the details in Table 406.3 (Single Family), on page 4.

**Summary of Table R406.2**

Heating Options	Fuel Normalization Descriptions	Credits - select ONE heating option	User Notes
1	Combustion heating minimum NAECA <sup>b</sup>	0.0	<input checked="" type="checkbox"/>
2	Heat pump <sup>c</sup>	1.0	<input checked="" type="checkbox"/>
3	Electric resistance heat only - furnace or zonal	-1.0	<input type="checkbox"/>
4	DHP with zonal electric resistance per option 3.4	0.5	<input type="checkbox"/>
5	All other heating systems	-1.0	<input type="checkbox"/>

**Energy Options**

Energy Options	Energy Credit Option Descriptions	Credits - select ONE energy option from each category <sup>d</sup>	User Notes
1.1	Efficient Building Envelope	0.5	<input type="checkbox"/>
1.2	Efficient Building Envelope	1.0	<input type="checkbox"/>
1.3	Efficient Building Envelope	0.5	<input type="checkbox"/>
1.4	Efficient Building Envelope	1.0	<input type="checkbox"/>
1.5	Efficient Building Envelope	2.0	<input type="checkbox"/>
1.6	Efficient Building Envelope	3.0	<input type="checkbox"/>
1.7	Efficient Building Envelope	0.5	<input type="checkbox"/>
2.1	Air Leakage Control and Efficient Ventilation	0.5	<input type="checkbox"/>
2.2	Air Leakage Control and Efficient Ventilation	1.0	<input type="checkbox"/>
2.3	Air Leakage Control and Efficient Ventilation	1.5	<input type="checkbox"/>
2.4	Air Leakage Control and Efficient Ventilation	2.0	<input type="checkbox"/>
3.1 <sup>e</sup>	High Efficiency HVAC	1.0	<input type="checkbox"/>
3.2	High Efficiency HVAC	1.0	<input type="checkbox"/>
3.3 <sup>e</sup>	High Efficiency HVAC	1.5	<input type="checkbox"/>
3.4	High Efficiency HVAC	1.5	<input type="checkbox"/>
3.5	High Efficiency HVAC	1.5	<input type="checkbox"/>
3.6 <sup>e</sup>	High Efficiency HVAC	2.0	<input type="checkbox"/>
4.1	High Efficiency HVAC Distribution System	-0.5	<input type="checkbox"/>
4.2	High Efficiency HVAC Distribution System	1.0	<input checked="" type="checkbox"/>

**Summary of Table R406.2 (cont.)**

Energy Options	Energy Credit Option Descriptions (cont.)	Credits - select ONE energy option from each category <sup>d</sup>	User Notes
5.1 <sup>d</sup>	Efficient Water Heating	0.5	<input type="checkbox"/>
5.2	Efficient Water Heating	0.5	<input type="checkbox"/>
5.3	Efficient Water Heating	1.0	<input type="checkbox"/>
5.4	Efficient Water Heating	1.5	<input type="checkbox"/>
5.5	Efficient Water Heating	2.0	<input checked="" type="checkbox"/>
5.6	Efficient Water Heating	2.5	<input type="checkbox"/>
6.1 <sup>e</sup>	Renewable Electric Energy (3 credits max)	1.0	<input type="checkbox"/>
7.1	Appliance Package	0.5	<input type="checkbox"/>

**Total Credits** 3.5 **Calculate Total** **Clear Form**

**Please print only pages 1 through 3 of this worksheet for submission to your building official.**

Prescriptive Path – Single Family 2018 Washington State Energy Code-R

2018 Washington State Energy Code – Residential  
Prescriptive Energy Code Compliance for All Climate Zones in Washington  
Single Family – New & Additions (effective February 1, 2021)

Summary of Table R406.2 (cont.)

Energy Options	Energy Credit Option Descriptions (cont.)	Credits - select ONE energy option from each category <sup>d</sup>	User Notes
5.1 <sup>d</sup>	Efficient Water Heating	0.5	<input type="checkbox"/>
5.2	Efficient Water Heating	0.5	<input type="checkbox"/>
5.3	Efficient Water Heating	1.0	<input type="checkbox"/>
5.4	Efficient Water Heating	1.5	<input type="checkbox"/>
5.5	Efficient Water Heating	2.0	<input checked="" type="checkbox"/>
5.6	Efficient Water Heating	2.5	<input type="checkbox"/>
6.1 <sup>e</sup>	Renewable Electric Energy (3 credits max)	1.0	<input type="checkbox"/>
7.1	Appliance Package	0.5	<input type="checkbox"/>

**Total Credits** 3.5 **Calculate Total** **Clear Form**

**Please print only pages 1 through 3 of this worksheet for submission to your building official.**

Prescriptive Path – Single Family 2018 Washington State Energy Code-R

2018 Washington State Energy Code – Residential  
Prescriptive Energy Code Compliance for All Climate Zones in Washington  
Single Family – New & Additions (effective February 1, 2021)

Table 406.3 – Energy Credits (Single Family)

Option	Description	Credits: SF
<b>1. EFFICIENT BUILDING ENVELOPE OPTIONS</b>		
Only one option from Items 1.1 through 1.7 may be selected in this category.		
Compliance with the conductive UA targets is demonstrated using Section R402.1.4, Total UA alternative, where [1-Proposed UA/Target UA] > the required %UA reduction.		
1.1	Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.24	0.5
1.2	Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.20	1.0
1.3	Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.28 Floor R-38 Slab on grade R-10 perimeter and under entire slab below grade slab R-10 perimeter and under entire slab or	0.5
	Compliance based on Section R402.1.4: Reduce the Total conductive UA by 5%	
	Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.25 Wall R-21 plus R-4 ci	
1.4	Floor R-38 Basement wall R-21 int plus R-5 ci Slab on grade R-10 perimeter and under entire slab Below grade slab R-10 perimeter and under entire slab or	1.0
	Compliance based on Section R402.1.4: Reduce the Total conductive UA by 15%	
1.5	Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.22 Ceiling and single-rafter or joist-vaulted R-49 advanced Wood frame wall R-21 int plus R-12 ci Floor R-38 Basement wall R-21 int plus R-12 ci Slab on grade R-10 perimeter and under entire slab Below grade slab R-10 perimeter and under entire slab or	2.0
	Compliance based on Section R402.1.4: Reduce the Total conductive UA by 30%	
1.6	Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.18 Ceiling and single-rafter or joist-vaulted R-60 advanced Wood frame wall R-21 int plus R-16 ci Floor R-48 Basement wall R-21 int plus R-16 ci Slab on grade R-20 perimeter and under entire slab Below grade slab R-20 perimeter and under entire slab or	3.0
	Compliance based on Section R402.1.4: Reduce the Total conductive UA by 40%	
1.7	Advanced framing and raised heel trusses or rafters Vertical Glazing U-0.28 R-49 Advanced (U-0.020) as listed in Section A102.2.1, Ceilings below a vented attic and R-49 vaulted ceilings with full height of uncomressed insulation extending over the wall top plate at the eaves.	0.5

Prescriptive Path – Single Family 2018 Washington State Energy Code-R

2018 Washington State Energy Code – Residential  
Prescriptive Energy Code Compliance for All Climate Zones in Washington  
Single Family – New & Additions (effective February 1, 2021)

Table 406.3 – Energy Credits (Single Family)

Option	Description	Credits: SF
<b>3. HIGH EFFICIENCY HVAC EQUIPMENT OPTIONS</b>		
Only one option from Items 3.1 through 3.6 may be selected in this category.		
Compliance based on R402.4.1.2: Reduce the tested air leakage to 3.0 air changes per hour maximum at 50 Pascals or		
2.1	For R-2 Occupancies, optional compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.3 cfm/sf maximum at 50 Pascals <b>and</b>	0.5
	All whole house ventilation requirements as determined by Section M1507.3 of the International Residential Code or Section 403.8 of the International Mechanical Code shall be met with a high efficiency fan(s) (maximum 0.35 watts/cfm), not interlocked with the furnace fan (if present). Ventilation systems using a furnace including an ECM motor are allowed, provided that they are controlled to operate at low speed in ventilation only mode.	
	To qualify to claim this credit, the building permit drawings shall specify the option being selected and the maximum tested building air leakage, and shall show the qualifying ventilation system and its control sequence of operation.	
	Compliance based on Section R402.4.1.2: Reduce the tested air leakage to 2.0 air changes per hour maximum at 50 Pascals <b>or</b>	
2.2	For R-2 Occupancies, optional compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.25 cfm/sf maximum at 50 Pascals <b>and</b>	1.0
	All whole house ventilation requirements as determined by Section M1507.3 of the International Residential Code or Section 403.8 of the International Mechanical Code shall be met with a heat recovery ventilation system with minimum sensible heat recovery efficiency of 0.65. <sup>1</sup>	
	Compliance based on Section R402.4.1.2: Reduce the tested air leakage to 1.5 air changes per hour maximum at 50 Pascals <b>or</b>	
2.3	For R-2 Occupancies, optional compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.25 cfm/sf maximum at 50 Pascals <b>and</b>	1.5
	All whole house ventilation requirements as determined by Section M1507.3 of the International Residential Code or Section 403.8 of the International Mechanical Code shall be met with a heat recovery ventilation system with minimum sensible heat recovery efficiency of 0.75. <sup>1</sup>	
	Compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.6 air changes per hour maximum at 50 Pascals <b>or</b>	
2.4	For R-2 Occupancies, optional compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.15 cfm/sf maximum at 50 Pascals <b>and</b>	2.0
	All whole house ventilation requirements as determined by Section M1507.3 of the International Residential Code or Section 403.8 of the International Mechanical Code shall be met with a heat recovery ventilation system with minimum sensible heat recovery efficiency of 0.80. Duct installation shall comply with Section R403.7. <sup>1</sup>	
<sup>1</sup> To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the maximum tested building air leakage and shall show the heat recovery ventilation system.		

Prescriptive Path – Single Family 2018 Washington State Energy Code-R

2018 Washington State Energy Code – Residential  
Prescriptive Energy Code Compliance for All Climate Zones in Washington  
Single Family – New & Additions (effective February 1, 2021)

Table 406.3 – Energy Credits (Single Family)

Option	Description	Credits: SF
<b>5. EFFICIENT WATER HEATING OPTIONS</b>		
Only one option from Items 5.2 through 5.6 may be selected in this category. Item 5.1 may be combined with any option.		
A drain water heat recovery unit(s) shall be installed, which captures waste water heat from all and only the showers, and has a minimum efficiency of 40% if installed for equal flow or a minimum efficiency of 54% if installed for unequal flow. Such units shall be rated in accordance with CSA Z54.1 or IAPMO IGC 346-2017 and be so labeled.		
5.1	To qualify to claim this credit, the building permit drawings shall include a plumbing diagram that specifies the drain water heat recovery units and the plumbing layout needed to install it. Labels or other documentation shall be provided that demonstrates that the unit complies with the standard.	0.5
5.2	Water heating system shall include one of the following: Energy Star rated gas or propane water heater with a minimum UEF of 0.80. <sup>5</sup>	0.5
5.3	Water heating system shall include one of the following: Energy Star rated gas or propane water heater with a minimum UEF of 0.91 or Solar water heating supplementing a minimum standard water heater. Solar water heating will provide a rated minimum savings of 85 therms or 2000 kWh based on the Solar Rating and Certification Corporation (SRCC) Annual Performance of OG-300 Certified Solar Water Heating Systems of Water heater heated by ground source heat pump meeting requirements of Option 3.3.	1.0
5.4	To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the water heater equipment type and the minimum equipment efficiency and, for solar water heating systems, the calculation of minimum energy savings.	
5.5	Water heating system shall include one of the following: Electric heat pump water heater meeting the standards for Tier I of NEEA's advanced water heating specification or For R-2 Occupancy, electric heat pump water heater(s), meeting the standards for Tier I of NEEA's advanced water heating specification, shall supply domestic hot water to all units. If one water heater is serving more than one dwelling unit, all hot water supply and recirculation piping shall be insulated with R-8 minimum pipe insulation. <sup>5</sup>	1.5
5.6	Water heating system shall include one of the following: Electric heat pump water heater with a minimum UEF of 2.9 and utilizing a split system configuration with the air-to-air heat exchanger located outdoors. Equipment shall meet Section 4, requirements for all units, of the NEEA standard Advanced Water Heating Specification with the UEF noted above or For R-2 Occupancy, electric heat pump water heater(s), meeting the standards for Tier III of NEEA's advanced water heating specification, shall supply domestic hot water to all units. If one water heater is serving more than one dwelling unit, all hot water supply and recirculation piping shall be insulated with R-8 minimum pipe insulation. <sup>5</sup>	2.5

Prescriptive Path – Single Family 2018 Washington State Energy Code-R

2018 Washington State Energy Code – Residential  
Prescriptive Energy Code Compliance for All Climate Zones in Washington  
Single Family – New & Additions (effective February 1, 2021)

Table 406.3 – Energy Credits (Single Family)

Option	Description	Credits: SF
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2018 Washington State Energy Code – Residential  
Prescriptive Energy Code Compliance for All Climate Zones in Washington  
Single Family – New & Additions (effective February 1, 2021) Version 1.0

These requirements apply to all IRC building types, including detached one- and two-family dwellings and multiple single-family dwellings (townhouses).

Project Information		Contact Information	
Aguiar Addition Upper Unit 10341 NE 141st Pl	Homero Nishiwaki homero@ln-arc.com		

Instructions: This single-family project will use the requirements of the Prescriptive Path below and incorporate the minimum values listed. Based on the size of the structure, the appropriate number of additional credits are checked as chosen by the permit applicant.

Provide all information from the following tables as building permit drawings: Table R402.1 - Insulation and Fenestration Requirements by Component; Table R406.2 - Fuel Normalization Credits and 406.3 - Energy Credits.

Authorized Representative	Date
	01/11/2021

All Climate Zones (Table R402.1.1)		
	R-Value <sup>a</sup>	U-Factor <sup>a</sup>
Penetration U-Factor <sup>b</sup>	n/a	0.30
Skylight U-Factor <sup>b</sup>	n/a	0.50
Glazed Penetration SHGC <sup>b</sup>	n/a	n/a
Ceiling	49	0.026
Wood Frame Wall <sup>b, h</sup>	21 int	0.056
Floor	30	0.029
Below Grade Wall <sup>c, h</sup>	10/15/21 int + TB	0.042
Slab <sup>d, f, g, h</sup> R-Value & Depth	10, 2 ft	n/a

<sup>a</sup> R-values are minimums. U-factors and SHGC are maximums. When insulation is installed in a cavity that is less than the label or design thickness of the insulation, the compressed R-value of the insulation from Appendix Table A101.4 shall not be less than the R-value specified in the table.  
<sup>b</sup> The penetration U-factor column excludes skylights.  
<sup>c</sup> "10/15/21 +TB" means R-10 continuous insulation on the exterior of the wall, or R-15 continuous insulation on the interior of the wall, or R-21 cavity insulation plus a thermal break between the slab and the basement wall at the interior of the basement wall. "10/15/21 +TB" shall be permitted to be met with R-13 cavity insulation on the interior of the basement wall plus R-5 continuous insulation on the interior or exterior of the wall. "TB" means R-5 thermal break between floor slab and basement wall.  
<sup>d</sup> R-10 continuous insulation is required under heated slab on grade floors. See Section R402.2.9.1.  
<sup>e</sup> For single rafter- or joist-vaulted ceilings, the insulation may be reduced to R-38 if the full insulation depth extends over the top plate of the exterior wall.  
<sup>f</sup> R-7.5 continuous insulation installed over an existing slab is deemed to be equivalent to the required perimeter slab insulation when applied to existing slabs complying with Section R503.1.1. If foam plastic is used, it shall meet the requirements for thermal barriers protecting foam plastics.  
<sup>g</sup> For log structures developed in compliance with Standard ICC 400, log walls shall meet the requirements for climate zone 5 of ICC 400.  
<sup>h</sup> Int. (intermediate framing) denotes framing and insulation as described in Section A103.2.2 including standard framing 16 inches on center, 78% of the wall cavity insulated and headers insulated with a minimum of R-10 insulation.

Prescriptive Path – Single Family 2018 Washington State Energy Code-R 1

2018 Washington State Energy Code – Residential  
Prescriptive Energy Code Compliance for All Climate Zones in Washington  
Single Family – New & Additions (effective February 1, 2021)

Each dwelling unit *in a residential building* shall comply with sufficient options from Table R406.2 (fuel normalization credits) and Table 406.3 (energy credits) to achieve the following minimum number of credits. To claim this credit, the building permit drawings shall specify the option selected and the maximum tested building air leakage, and show the qualifying ventilation system and its control sequence of operation.

1. **Small Dwelling Unit: 3 credits**  
Dwelling units less than 1,500 sf in conditioned floor area with less than 300 of fenestration area. Additions to existing building that are greater than 500 sf of heated floor area but less than 1,500 sf.
2. **Medium Dwelling Unit: 6 credits**  
All dwelling units that are not included in #1 or #3
3. **Large Dwelling Unit: 7 credits**  
Dwellings exceeding 5,000 sf of conditioned floor area
4. **Additions less than 500 square feet: 1.5 credits**  
All other additions shall meet 1-3 above

Before selecting your credits on this Summary table, review the details in Table 406.3 (Single Family), on page 4.

Summary of Table R406.2		
Heating Options	Fuel Normalization Descriptions	Credits - select ONE heating option
1	Combustion heating minimum NAECA <sup>b</sup>	0.0
2	Heat pump <sup>c</sup>	1.0
3	Electric resistance heat only - furnace or zonal	-1.0
4	DHP with zonal electric resistance per option 3.4	0.5
5	All other heating systems	-1.0
		Credits - select ONE energy option from each category <sup>d</sup>
1.1	Efficient Building Envelope	0.5
1.2	Efficient Building Envelope	1.0
1.3	Efficient Building Envelope	0.5
1.4	Efficient Building Envelope	1.0
1.5	Efficient Building Envelope	2.0
1.6	Efficient Building Envelope	3.0
1.7	Efficient Building Envelope	0.5
2.1	Air Leakage Control and Efficient Ventilation	0.5
2.2	Air Leakage Control and Efficient Ventilation	1.0
2.3	Air Leakage Control and Efficient Ventilation	1.5
2.4	Air Leakage Control and Efficient Ventilation	2.0
3.1 <sup>e</sup>	High Efficiency HVAC	1.0
3.2 <sup>e</sup>	High Efficiency HVAC	1.0
3.3 <sup>e</sup>	High Efficiency HVAC	1.5
3.4 <sup>e</sup>	High Efficiency HVAC	1.5
3.5 <sup>e</sup>	High Efficiency HVAC	1.5
3.6 <sup>e</sup>	High Efficiency HVAC	2.0
4.1	High Efficiency HVAC Distribution System	0.5
4.2	High Efficiency HVAC Distribution System	1.0

Prescriptive Path – Single Family 2018 Washington State Energy Code-R 2

2018 Washington State Energy Code – Residential  
Prescriptive Energy Code Compliance for All Climate Zones in Washington  
Single Family – New & Additions (effective February 1, 2021)

Prescriptive Energy Code Compliance for All Climate Zones in Washington  
Single Family – New & Additions (effective February 1, 2021)

Summary of Table R406.2 (cont.)		
Energy Options	Energy Credit Option Descriptions	Credits - select ONE energy option from each category <sup>d</sup>
5.1 <sup>e</sup>	Efficient Water Heating	0.5
5.2	Efficient Water Heating	0.5
5.3	Efficient Water Heating	1.0
5.4	Efficient Water Heating	1.5
5.5	Efficient Water Heating	2.0
5.6	Efficient Water Heating	2.5
6.1 <sup>e</sup>	Renewable Electric Energy (3 credits max)	1.0
6.2	Appliance Package	0.5
		Total Credits
		6.0
		Calculate Total
		Clear Form

1. An alternative heating source sized at a maximum of 0.5 W/sf (equivalent) of heated floor area or 500 W, whichever is bigger, may be installed in the dwelling unit.
2. Equipment listed in Table C403.3(4) or C403.3(5)
3. Equipment listed in Table C403.3(2)(1) or C403.3(2)(2)
4. You cannot select more than one option from any category EXCEPT in category 5. Option 5.1 may be combined with options 5.2 through 5.6. See Table 406.3
5. 1.0 credit for each 1,200 kWh of electrical generation provided annually, up to 3 credits max. See the complete Table 406.2 for all requirements and option descriptions.
6. Use the single radiobutton in the upper right of the second column to deselect radiobuttons in that group.

Please print only pages 1 through 3 of this worksheet for submission to your building official.

Prescriptive Path – Single Family 2018 Washington State Energy Code-R 3

2018 Washington State Energy Code – Residential  
Prescriptive Energy Code Compliance for All Climate Zones in Washington  
Single Family – New & Additions (effective February 1, 2021)

Table 406.3 – Energy Credits (Single Family)

Option	Description	Credits: SF
<b>1. EFFICIENT BUILDING ENVELOPE OPTIONS</b>		
Only one option from items 1.1 through 1.7 may be selected in this category.		
Compliance with the conductive UA targets is demonstrated using Section R402.1.4, Total UA alternative, where [1-Proposed UA/Target UA] > the required %UA reduction.		
1.1	Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.24	0.5
1.2	Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.20	1.0
1.3	Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.28 Floor R-38 Slab on grade R-10 perimeter and under entire slab below grade slab R-10 perimeter and under entire slab or	0.5
Compliance based on Section R402.1.4: Reduce the Total conductive UA by 5%		
Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.25 Wall R-21 plus R-4 ci		
1.4	Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.25 Floor R-38 Basement wall R-21 int plus R-5 ci Slab on grade R-10 perimeter and under entire slab Below grade slab R-10 perimeter and under entire slab or	1.0
1.5	Prescriptive compliance is based on Table R402.1.4: Reduce the Total conductive UA by 15% Vertical fenestration U = 0.22 Ceiling and single-rafter or joist-vaulted R-49 advanced Wood frame wall R-21 int plus R-12 ci Floor R-38 Basement wall R-21 int plus R-12 ci Slab on grade R-20 perimeter and under entire slab Below grade slab R-20 perimeter and under entire slab or	2.0
1.6	Prescriptive compliance is based on Table R402.1.4: Reduce the Total conductive UA by 30% Vertical fenestration U = 0.18 Ceiling and single-rafter or joist-vaulted R-60 advanced Wood frame wall R-21 int plus R-16 ci Floor R-48 Basement wall R-21 int plus R-16 ci Slab on grade R-20 perimeter and under entire slab Below grade slab R-20 perimeter and under entire slab or	3.0
1.7	Prescriptive compliance is based on Table R402.1.4: Reduce the Total conductive UA by 40% Advanced framing and raised heel trusses or rafters Vertical Glazing U-0.28 R-49 Advanced (U-0.020) as listed in Section A102.2.1, Ceilings below a vented attic and R-49 vaulted ceilings with full height of uncompresssed insulation extending over the wall top plate at the eaves.	0.5

Prescriptive Path – Single Family 2018 Washington State Energy Code-R 4

Prescriptive Path – Single Family 2018 Washington State Energy Code-R 5

2018 Washington State Energy Code – Residential  
Prescriptive Energy Code Compliance for All Climate Zones in Washington  
Single Family – New & Additions (effective February 1, 2021)

Table 406.3 – Energy Credits (Single Family)

Option	Description	Credits: SF
<b>2. AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION OPTIONS</b>		
Only one option from items 2.1 through 2.4 may be selected in this category.		
2.1	Compliance based on R402.4.1.2: Reduce the tested air leakage to 3.0 air changes per hour maximum at 50 Pascals or For R-2 Occupancies, optional compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.3 cfm/sf maximum at 50 Pascals and All whole house ventilation requirements as determined by Section M1507.3 of the International Residential Code or Section 403.8 of the International Mechanical Code shall be met with a high efficiency fan(s) (maximum 0.35 watts/cfm), not interlocked with the furnace fan (if present). Ventilation systems using a furnace including an ECM motor are allowed, provided that they are controlled to operate at low speed in ventilation only mode. To qualify to claim this credit, the building permit drawings shall specify the option being selected and the maximum tested building air leakage, and shall show the qualifying ventilation system and its control sequence of operation.	0.5
2.2	Compliance based on R402.4.1.2: Reduce the tested air leakage to 2.0 air changes per hour maximum at 50 Pascals or For R-2 Occupancies, optional compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.25 cfm/sf maximum at 50 Pascals and All whole house ventilation requirements as determined by Section M1507.3 of the International Residential Code or Section 403.8 of the International Mechanical Code shall be met with a heat recovery ventilation system with minimum sensible heat recovery efficiency of 0.65. Compliance based on Section R402.4.1.2: Reduce the tested air leakage to 1.5 air changes per hour maximum at 50 Pascals or For R-2 Occupancies, optional compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.25 cfm/sf maximum at 50 Pascals and All whole house ventilation requirements as determined by Section M1507.3 of the International Residential Code or Section 403.8 of the International Mechanical Code shall be met with a heat recovery ventilation system with minimum sensible heat recovery efficiency of 0.75. Compliance based on Section R	

**Aguilar  
Addition**

10341 NE 141st Pl  
Kirkland WA 98034



KITCHEN SMALL APPLIANCES LAUNDRY AIR & WATER SMART APPLIANCES

Home / Kitchen / Dishwashers / Built In Dishwashers  
/ GE® Top Control with Stainless Steel Interior Dishwasher with Sanitize Cycle & Dry Boost with Fan Assist

**GE® Top Control with Stainless Steel Interior Dishwasher with Sanitize Cycle & Dry Boost with Fan Assist**

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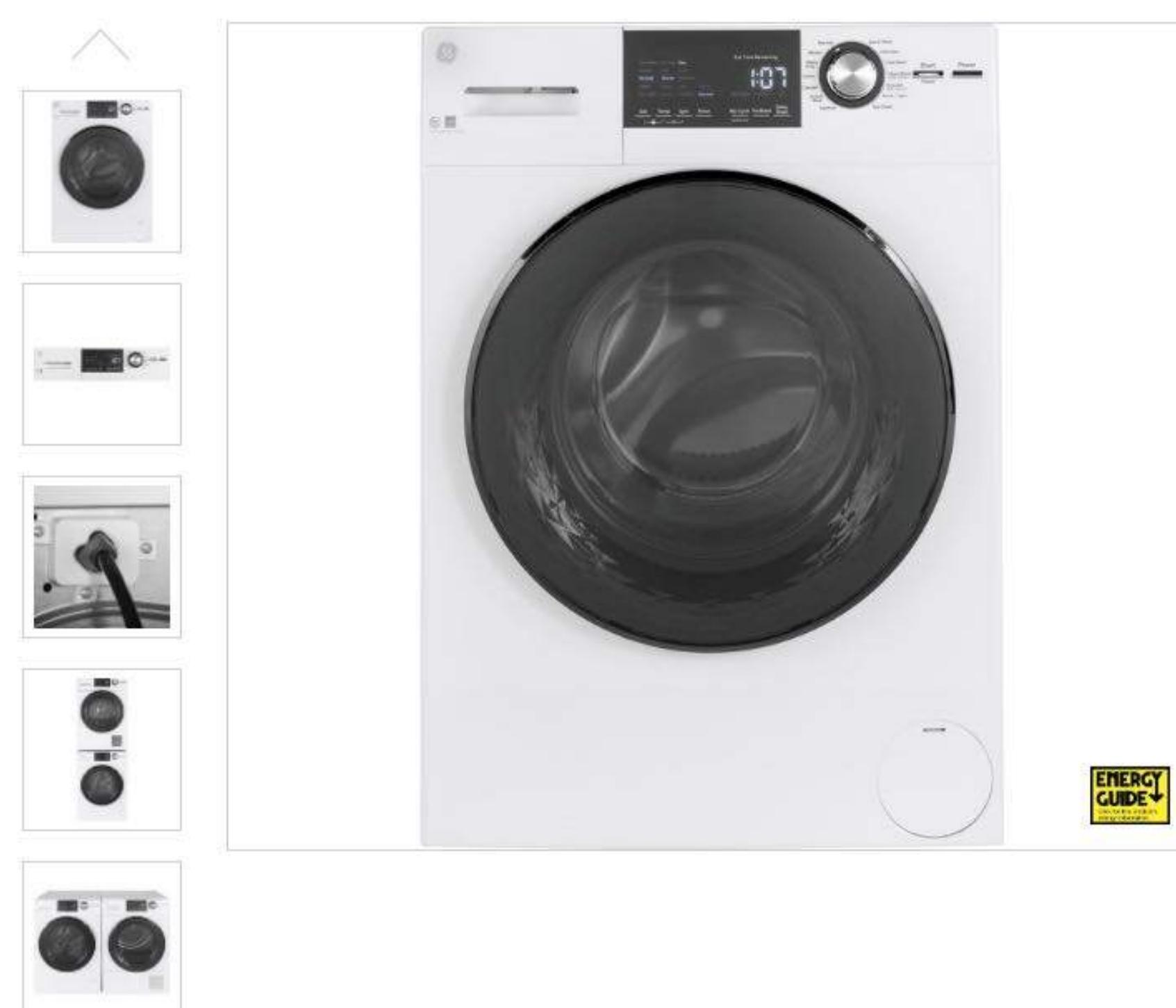


KITCHEN SMALL APPLIANCES LAUNDRY AIR & WATER SMART APPLIANCES

Home / Laundry / Washers / Front Loading Washers / GE® 24" 2.4 Cu. Ft. ENERGY STAR® Fron

**GE® 24" 2.4 Cu. Ft. ENERGY STAR® Front Load Washer with Steam**

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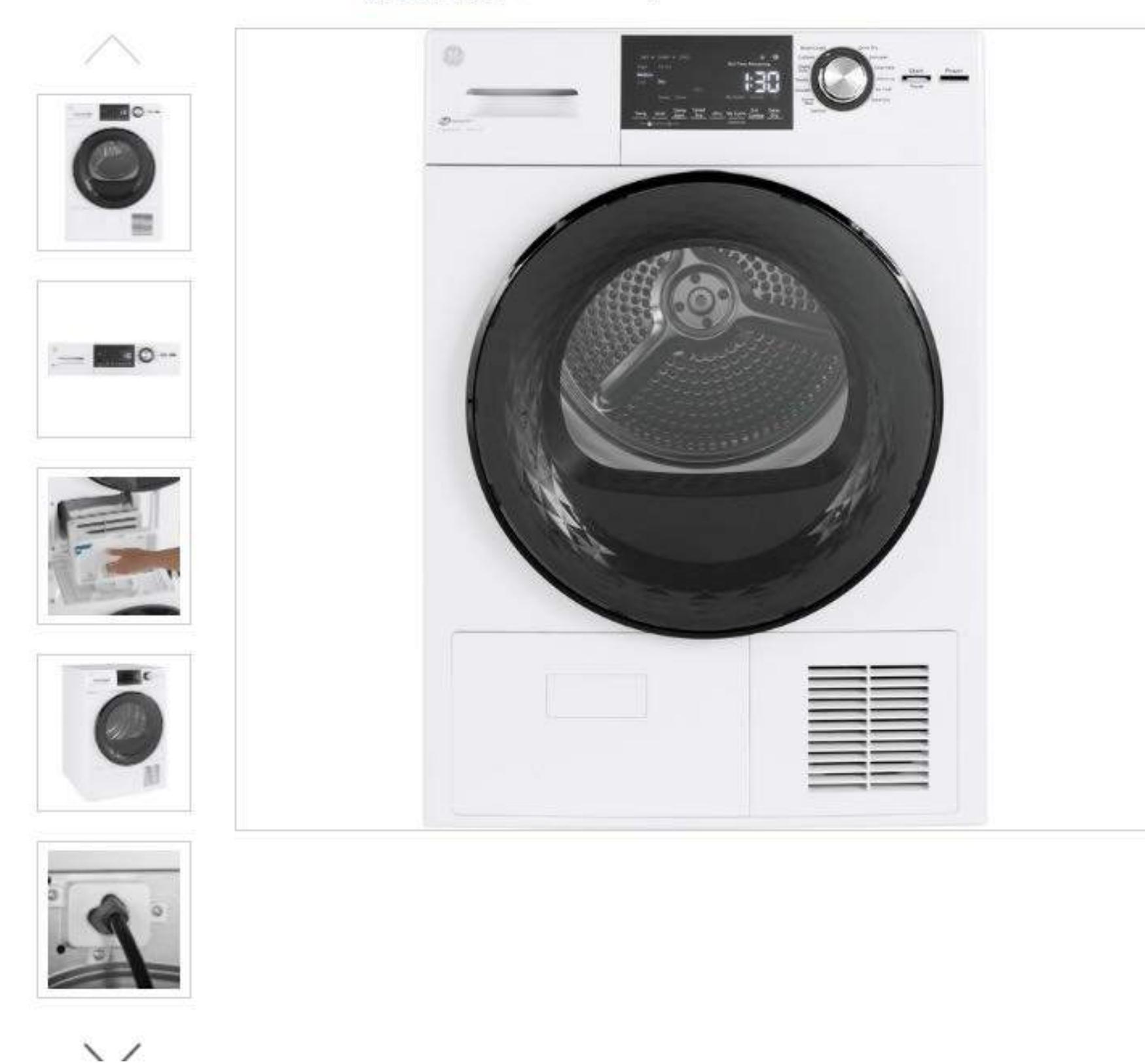


Home / Laundry / Dryers / Stackable Dryers

/ GE® 24" 4.1 Cu.Ft. Front Load Ventless Condenser Electric Dryer with Stainless Steel Basket

**GE® 24" 4.1 Cu.Ft. Front Load Ventless Condenser Electric Dryer with Stainless Steel Basket**

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Building PERMIT

October 5, 2021

**A16**

Title: Aguilar Addition, Kirkland, WA  
Tree Protection Plan and Level 2 Tree Risk Assessment

Prepared for: Mr. Dennis Aguilar  
10341 NE 141<sup>st</sup> Pl  
Kirkland WA, 98034

Prepared by: Urban Forestry Services, Inc.  
Christina Pfeiffer  
ISA Certified Arborist® #PN-0124A  
Anna Heckman  
ISA Certified Arborist® # PN-6153B

Date: March 26, 2018

Contents: Summary  
Introduction  
Findings and Recommendations  
City of Kirkland Tree Protection Fence Detail  
Tree Site Plan  
Critical Root Zone Explanation and General Tree Protection Guidelines  
Assumptions & Limiting Conditions

#### Summary

The large Douglas fir on the Aguilar property at 10341 NE 141<sup>st</sup> pl. in Kirkland, Washington meets the criteria for a significant tree as defined in the City of Kirkland municipal code. Proposed construction activities will cross into the Perimeter Critical Root Zone (PCRZ) of this tree. Building materials should be removed at this time and tree protection fence installed keeping with the attached City of Kirkland tree protection fence detail.

#### Introduction

As requested by Mr. Dennis Aguilar, Urban Forestry Services consulting arborists visited the property at 10341 NE 141<sup>st</sup> pl. in Kirkland, Washington on March 16, 2018. The purpose of this visit was to assess a large Douglas fir, *Pseudotsuga menziesii* and provide recommendations for tree retention and protection as called for in the City of Kirkland municipal code for a Major Tree Retention Plan. The large Douglas fir located in the north-east corner of the front yard is in good condition with a healthy, dense canopy. Retaining this tree will satisfy the city canopy retention credit requirements (Photo 1).

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[www.urbanforetryservices.com](http://www.urbanforetryservices.com)

Planning, Managing & Restoring Urban Greenspaces

#### Findings and Recommendations

Tree #1 Douglas Fir (*Pseudotsuga menziesii*) 23.4-inches d.b.h.  
Perimeter CRZ radius = 23.4 feet Interior CRZ radius = 12-feet

This tree is in good condition with a solid trunk and dense dark green foliage. Several large lateral structural roots are visible at the soil surface 14 feet from the trunk. The drip line has a radius of 18 feet. The Critical Root Zone (CRZ) for this tree has a radius extending 23.4 feet from the trunk (See the attached UFS, Inc. CRZ explanation sheet). Shallow structural roots can be expected to be found outside the CRZ near the house and driveway and extending into the area of construction.

#### Recommendations:

1. Remove all materials currently stored beneath the tree. Use great care to avoid damaging the large surface roots. Observe and follow #3 of the City of Kirkland Tree Protection Fence Detail.
2. Protect roots from damage and soil from compaction. Install tree protection fence prior to the start of construction. This fence will be placed at 23.4 feet from the tree or up to the edge of existing pavement (see drawing detail). No storage or construction work shall occur within the fence without permit approval.
3. Based on the age and vigor of this tree, it should be able to tolerate limited impacts within the Perimeter CRZ. Any work required within the Perimeter CRZ should be assessed and monitored by a consulting arborist so that the least destructive options and methods are used. To safely retain this tree, no excavation or trenching is to occur within the Interior CRZ (See attachment for CRZ Explanation). In addition, there should be no pruning of the large surface roots within the Interior CRZ. Hand digging, or the use of an air spade are recommended to achieve trenching if required while keeping larger roots intact.
4. Any roots 2-inches or more in diameter encountered outside the Perimeter CRZ during excavation activities should be cleanly cut. Watch for these larger size roots to prune and avoid pulling and tearing roots with equipment before they are cut.

This report and recommendations should fulfill the arborist report component for the City of Kirkland Major Tree Retention Plan requirements. The tree is located 29.5 from the house. Its location should be correctly shown on the plans prior to drawing in the Perimeter and Interior CRZ.



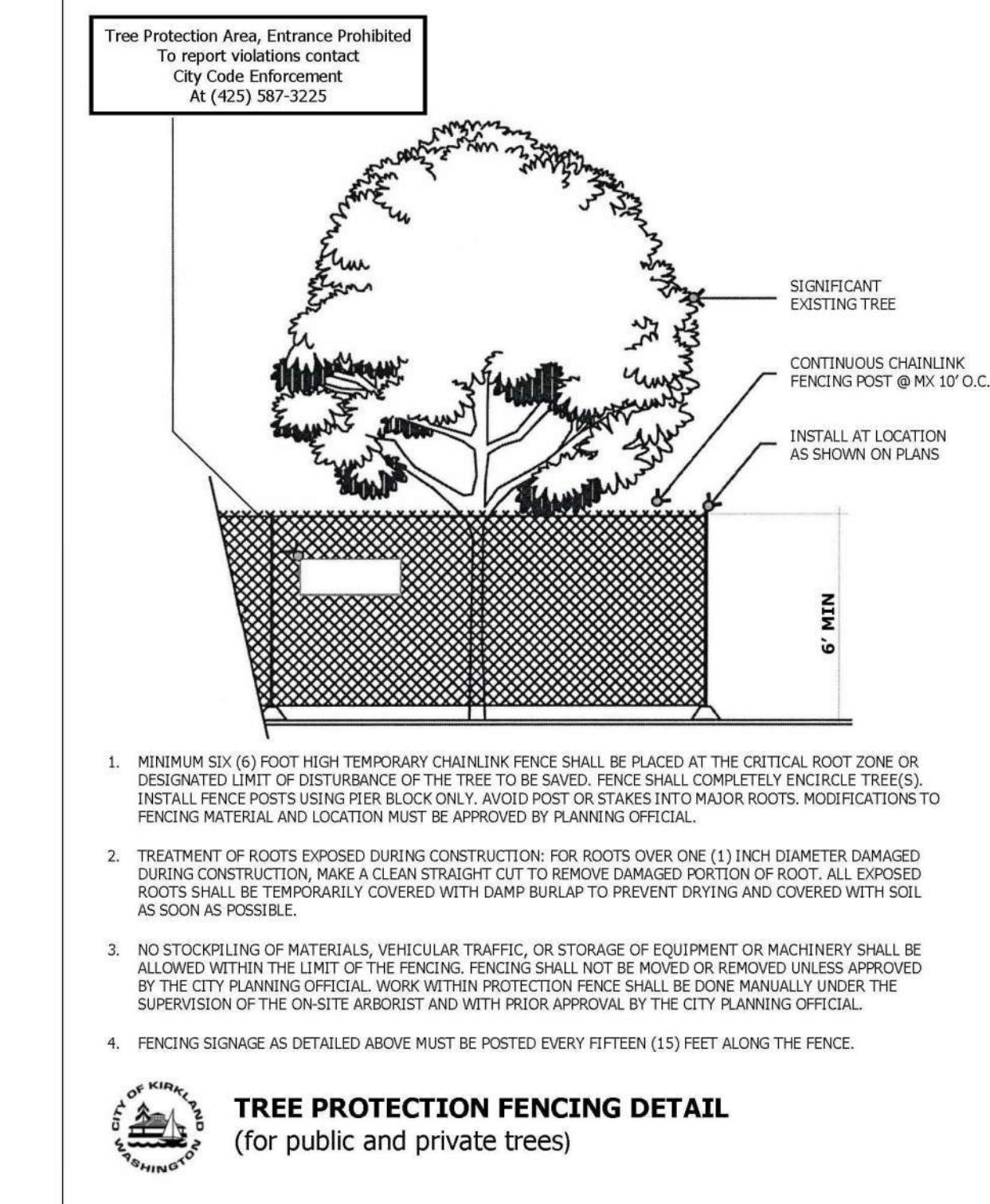
Photo 1. Retaining this Douglas fir tree satisfies the canopy retention credit requirements.



Photo 2. The orange tool handle is at the Perimeter CRZ. The building materials need to be moved outside of the Perimeter CRZ radius. This view is looking south from the edge of the



Photo 3. Larger surface roots are visible within a 6-foot radius from the main trunk (arrow). The orange handled tool in the foreground shows where surface roots extend out over 12-feet away from the trunk. These larger diameter surface roots require protection through construction.



Aguilar Addition, Tree Assessment  
Urban Forestry Services, Inc.  
March 26, 2018

Page 4 of 4

## Aguilar Addition

10341 NE 141<sup>st</sup> Pl  
Kirkland WA 98034

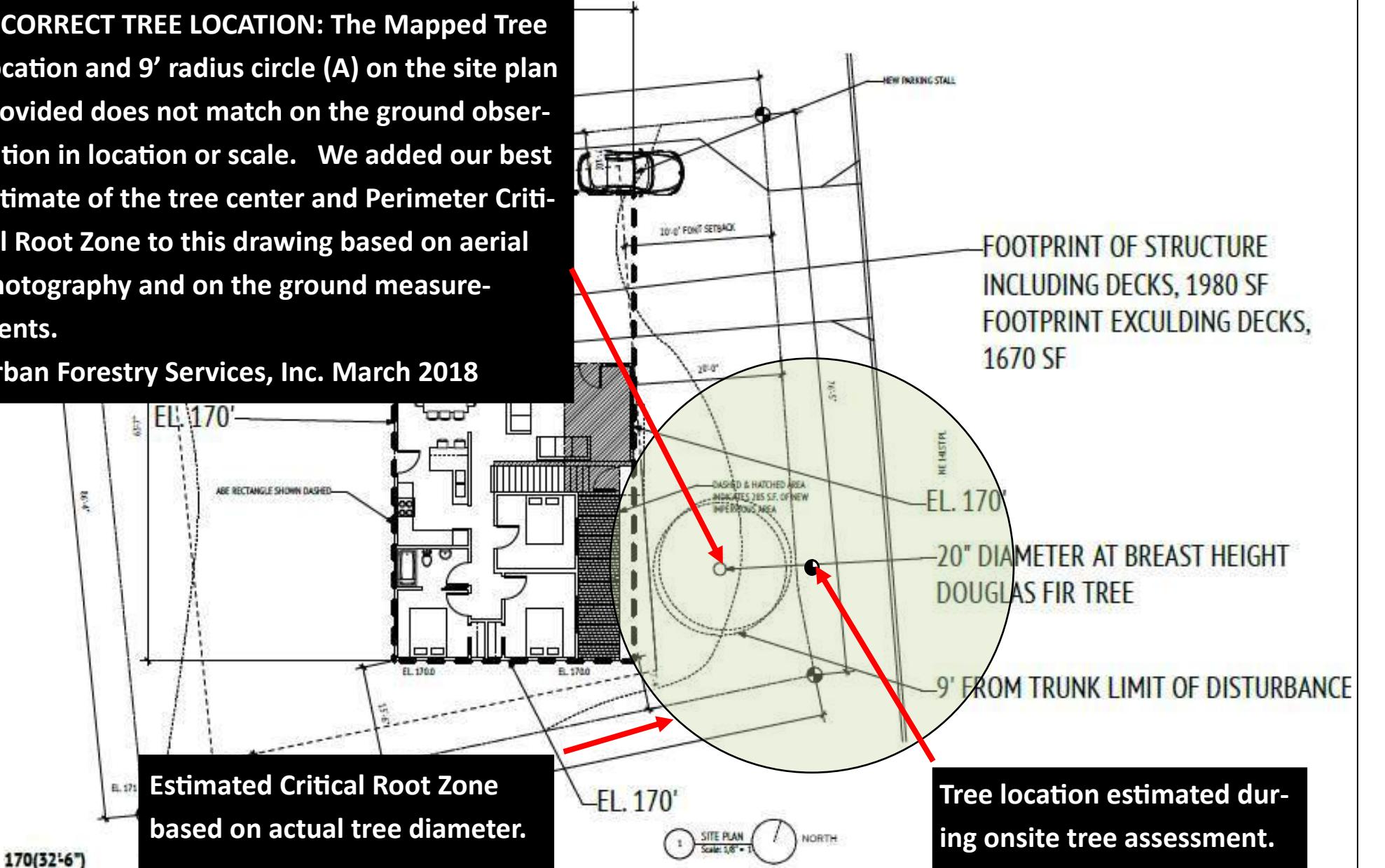
8585  
TOMORO NISHIWAKI  
STATE OF WASHINGTON  
REGISTERED  
ARCHITECT

Building PERMIT  
October 5, 2021

### Aguilar Site Map, 10341 NE 141<sup>st</sup> Pl. Kirkland, Washington

INCORRECT TREE LOCATION: The Mapped Tree Location and 9' radius circle (A) on the site plan provided does not match on the ground observation in location or scale. We added our best estimate of the tree center and Perimeter Critical Root Zone to this drawing based on aerial photography and on the ground measurements.

Urban Forestry Services, Inc. March 2018



### Urban Forestry Services, Inc.

Arboricultural Consulting | Wholesale Tree Nursery

#### General Tree Protection Guidelines

1. These Guidelines pertain to any disturbance, use or activity within the Critical Root Zone of any retained tree on this project. See attached **Critical Root Zone Explanation**. The owner's arborist and general contractor shall meet onsite before any site work begins to discuss and agree on the methods used to protect the retained trees during construction.
2. No soil disturbance shall take place before tree protection fences are installed. All evaluated trees to be retained within these areas are clearly illustrated on the Site Plan. The owner's arborist and contractor shall confirm on site which trees are to be removed and those to be retained. Directional felling of trees to be removed will be completed with great care not to damage retained trees.
3. The **Tree Protection Site Plan** shows the recommended location of the Tree Protection Fence (TPF). Immediately after clearing and grading stakes are set in the field, the owner's arborist, during review and discussion with the contractor will make a final determination on the tree protection requirements depending on construction limits and impact on major roots. The arborist may adjust clearing limits in the field so that, in his/her opinion, tree roots are protected while necessary work can proceed.
4. The Tree Protection Fence (TPF) shall be installed along the clearing limits, with special consideration of the Critical Root Zone (CRZ) of trees to be preserved. The CRZ of a tree is generally described as an area equal to 1-foot radius for every 1-inch diameter of tree. For example, a 10-inch diameter tree has a CRZ of 10-foot radius. Work within that area may be limited to hand work. The Tree Protection Fence (TPF) shall be constructed with a steel posts driven into the ground with 6-ft. chain link fence attached. The arborist upon consultation with the contractor shall determine the placement of the fence and the extent and method of clearing near preserved trees. Additional follow-up determinations may be required later on in the project. See attached **Critical Root Zone Explanation**.
5. Where the CRZ includes an area covered by hardscape, the TPF can be placed along the edge of the hardscape if and until it is removed. After removal, the available CRZ should be backfilled with soil up to 6 inches deep and protected with the TPF.
6. No parking, storage, dumping, or burning of materials is allowed beyond the clearing limits or within the TPF.
7. Tree protection signs shall be attached to the fence only and shall be shown as required on the Site Plan. They should read "Protect Critical Root Zone (CRZ) of trees to be retained".

Planning, Managing, & Restoring Urban Greenspaces

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Mount Vernon, WA 98273  
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Fax (360) 428-1822  
Cell (360) 770-9921  
Email: [jim@urbanforetryservices.com](mailto:jim@urbanforetryservices.com)  
[www.urbanforetryservices.com](http://www.urbanforetryservices.com)

No soil disturbance, parking, storage, dumping, or burning of materials is allowed beyond the Tree Protection Fence. Work within this area shall be reviewed with and approved by the owner's arborist. Call Jim Barborinas of Urban Forestry Services, Inc. 360-770-9921 for Questions."

8. Where vehicular access is required within the CRZ of any preserved tree that is not protected with hardscape, the soil shall be protected with 18" of woodchips and/or plywood or metal sheets to protect from soil compaction and damage to roots of retained trees.
9. The Tree Protection Fence will not be moved without authorization by the owner's arborist or City. The Fence shall be left up for the duration of the project.
10. Great care shall be exercised when landscaping within the CRZ of any tree. Roots of preserved trees and other vegetation shall not be damaged by planting or irrigation lines. The owner's arborist shall review the Landscape Plan and approve those activities within the CRZ of retained trees.
11. The owner's arborist will determine to what extent backfilling is allowed within the CRZ of a preserved tree. Only sandy, gravelly pit run is recommended for backfilling. Grade cuts are usually more detrimental than grade filling within the CRZ.
12. Trees recommended for maintenance and approved by the owner, shall be pruned for deadwood, low hanging limbs, and proper balance, as recommended for safety, clearance or aesthetics. An International Society of Arboriculture Certified Arborist is recommended to perform the pruning. ANSI A300 American Standards for Pruning shall be used. Limbs of retained trees within 10 feet or more, of any power line depending on power line voltage, may only be pruned by a Utility Certified Arborist. This pruning must be coordinated with the local power company or a private company with this certification.
13. Required work may result in the cutting of roots of retained trees. Severed roots of retained trees shall be cut off cleanly with a sharp saw or pruning shears. No pruning paint on trunk or root wounds is recommended. Severed roots shall be covered immediately after final pruning with moist soil or covered with mulch until covered with soil. Excavation equipment operators shall take extreme care not to hook roots and pull them back towards retained trees. This work shall be under the direct supervision of the owner's arborist.
14. If clearing is performed during the summer, supplemental watering and/or mulching over the root systems of preserved trees may be required by the owner's arborist. He or she should be notified in this event. Supplemental watering and mulching over the root systems of root impacted or stressed trees are strongly recommended to compensate for root loss and initiate new root growth. Long periods of slow drip irrigation will be most effective. Water once per week and check soils for at least 12 inches infiltration. This work shall be under the direct supervision of the owner's arborist.
15. Additional tree protection recommendations may be required as needed.

General Tree Protection Guidelines  
By Urban Forestry Services, Inc.  
2010

The owner's arborist may be required to monitor work when disturbance occurs near retained trees and shall make periodic site visits to report to the owner and city if tree protection guidelines are being followed.

The owner's arborist shall make a final site visit to report on retained tree condition following completed work and shall report to the city to release the bond for the retained trees.

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## GENERAL REQUIREMENTS

### SUMMARY OF WORK

Project consists of new construction as shown on these Contract Documents used in coordination with the Architectural and other discipline's documents.

### DEFINITIONS

The following acronyms are used throughout these structural notes:

- IBC - Governing code, including local amendments
- SER - Structural Engineer of Record per these Contract Documents
- UNO - Unless noted otherwise
- ASTM - American Society for Testing and Materials

### GOVERNING CODE

All design and construction shall conform to the 2018 International Building Code and local jurisdiction amendments.

Reference to ASTM and other standards shall refer to the latest edition designated by IBC Chapter 35. Refer to the specifications for information in addition to that covered by these structural notes and drawings.

### DOCUMENTS

Structural Documents shall be used in conjunction with Architectural Documents for all bidding and construction.

Drawings indicate general and typical details of construction. Typical details and general notes shall apply even if not specifically denoted on plans. UNO. Where conditions are not specifically indicated similar details of construction shall be used, subject to review and approval by the Architect and the SER.

Existing structural information, designated as (E) on the structural drawings, has been compiled from information furnished by various sources and is not necessarily field-verified by the engineer. Dimensions relating to existing structures are intended for use as guidelines only; all dimensions shall be field-verified by the contractor prior to start of construction. Notify the Architect of any discrepancies.

These Contract Documents and any materials used in preparation of them, including calculations, are the exclusive property of the SER and can be reproduced only with the permission of the SER.

### WARRANTY

The SER has used that degree of care and skill ordinarily exercised under similar circumstances by members of the profession in this locale and no other warranty, either expressed or implied, is made in connection with rendering professional services.

### OWNER RESPONSIBILITY

The owner shall retain a Special Inspector to perform the special inspection requirements required by the building official and as outlined in the Special Inspection section below.

## DESIGN CRITERIA

### BUILDING CATEGORY

Structural Risk Category II

Importance factors for snow and seismic are listed with the loading criteria.

### LIVE LOADS - FLOOR AND ROOF

Live loads indicated with \* are reducible per IBC  
Partition loading has been added per IBC

Residential:	
Uninhabitable attics without storage	10 psf
Uninhabitable attics with storage	20 psf
Uninhabitable attics portions over 4'-0" high	20 psf
Habitable attics and sleeping areas	30 psf
Residential floor	40 psf
Residential decks	40 psf

### LIVE LOADS - SNOW

Numbering below is per IBC Section 1603.1.3:

1. Flat-Roof Snow Load:  $P_f = 2.5 \text{ psf}$
2. Snow Exposure Factor:  $C_e = 1.2$
3. Snow Importance Factor:  $I_s = 1.0$
4. Thermal Factor:  $C_t = 1.0$

### LATERAL LOADS - WIND

Numbering below is per IBC Section 1603.1.4:

1. Ultimate Design Wind Speed (3-second gust):  $V_{ult} = 98 \text{ mph}$
2. Risk Category: I
3. Wind Exposure: B
4. Internal Pressure Coefficient = +/- 0.18

5. Components and Cladding:  
The following working loads may be used in lieu of calculations:

Uplift at roof in field	- 35 psf
at edges	- 35 psf
at corner	- 20 psf
Overhangs at edges	- 35 psf
at corner	- 45 psf
Walls at field	$\pm 20 \text{ psf}$
at corner	$\pm 25 \text{ psf}$

### LATERAL LOADS - EARTHQUAKE

Numbering below is per IBC Section 1603.5:

1. Risk Category: II
2. Seismic Importance Factor:  $I_e = 1.0$
3. Mapped Spectral Response Acceleration Parameters:  $S_s = 1.264 \text{ g}$ ;  $S_1 = 0.442 \text{ g}$
4. Site Class: D;  $F_A = 1.20$ ;  $F_V = 1.86$
5. Design Spectral Response Acceleration Parameters:  $S_{D5} = 1.01 \text{ g}$ ;  $S_{D1} = 0.547 \text{ g}$
6. Seismic Design Category: D
7. Basic Seismic Force-Resisting Systems:  
Vertical Elements: Light-Framed Wood Walls Sheathed with Wood Structural Panels;  
Diaphragms: Plywood structural panels;

8. Design Base Shear: 15 kips

9. Seismic Response Coefficient:  $C_s = 0.156$

10. Response Modification Coefficient:  $R = 6.5$

11. Analysis Procedure: Equivalent Lateral Force Procedure

Additional Items:

Building Location: 47.728° N, 122.202° W

Building Height = 25 feet

Redundancy Factors:

North/South Direction = 1.0

East/West Direction = 1.0

## CONTRACTOR PERFORMANCE REQUIREMENTS

### DESIGN DOCUMENTS

Contractor shall verify all dimensions and all conditions at the job site, including building and site conditions before commencing work, and be responsible for same. All discrepancies shall be reported to the Architect before proceeding with work. Any errors, ambiguities and/or omissions in the contract documents shall be reported to the Architect immediately, in writing. No work is to be started before correction is made.

Contractor shall verify and/or coordinate all dimensioned openings and slab edges shown on the contract documents. Some dimensions, openings and embedded items are shown on the structural drawings. Others may be required. Refer to architectural drawings for size and location of curbs, equipment pads, wall and floor openings, architectural treatment, embeds required for architectural items and dimensions. Refer to mechanical, plumbing, electrical and fire protection drawings for size and location of all openings for ducts, piping, conduits, etc. Submit openings to Architect for review.

Do not scale drawings. Use only field verified dimensions. When electronic plan files are provided for the Contractor's detailing convenience, it shall be noted that the electronic files are not guaranteed to be dimensionally accurate. The Contractor uses them at their own risk. The published paper documents are the controlling Contract Documents. Electronic files of detail sheets and notes will not be provided.

### CONTRACTOR-INITIATED CHANGES

Contractor-initiated changes shall be submitted in writing to the Architect for review and acceptance prior to fabrication or construction. Changes shown on shop drawings only will not satisfy this requirement.

### INSPECTIONS

The Contractor shall coordinate with the building department for all building department required inspections.

### TEMPORARY SHORING AND BRACING

The Contractor shall provide temporary bracing as required until all permanent connections and stiffening have been installed. The Contractor is responsible for the strength and stability of all partially completed structures including but not limited to concrete or masonry walls, steel framing and erection aids. The Contractor shall, at their discretion, employ the aid of a licensed Structural Engineer to design all temporary bracing and shoring necessary to complete the work described in these contract documents. The Contractor shall be responsible for all required safety standards, safety precautions and the methods, techniques, sequences or procedures required in performing their work. For concrete construction refer to ACI 318 - Section 26.11.2 "Removal of Formwork".

### SAFETY PROCEDURES

Contractor shall be responsible for all safety precautions and the methods, techniques, sequences or procedures required to perform the contractor's work. The Structural Engineer has no overall supervisory authority or actual and/or direct responsibility for the specific working conditions at the site and/or for any hazards resulting from the actions of any trade contractor. The Structural Engineer has no duty to inspect, supervise, note, correct, or report any health or safety deficiencies to the Owner, Contractors, or other entities or persons at the project site.

## RENOVATIONS

### DEMOLITION

Contractor shall verify all existing conditions before commencing any demolition. Shoring shall be installed to support existing construction as required and in a manner suitable to the work sequences. Demolition debris shall not be allowed to damage or overload the existing structure. Limit construction loading (including demolition debris) on existing floor systems to 40 psf.

### EXISTING CONCRETE

Existing reinforcing shall be saved where and as noted on the plans. Saw cutting, if and where used, shall not cut existing reinforcing that is to be saved.

- All new openings through existing walls, slabs and beams shall be accomplished by saw cutting wherever possible.
- Contractor shall verify all existing conditions and location of members prior to cutting any openings.
- Small round openings shall be accomplished by core drilling, if possible.
- Where new reinforcing terminates at existing concrete, dowels epoxy grouted into existing concrete shall be provided to match horizontal reinforcing, unless noted otherwise on plans.

### EXISTING WOOD

Contractor shall check for dryrot at all areas of new work. All rot shall be removed and damaged members shall be replaced or repaired as directed by the Structural Engineer or Architect.

## BUILDING MOVEMENT

All non-structural wall connections shall account for construction tolerances, column shortening and beam deflections. In addition, all design components shall accommodate a typical vertical movement at each floor of 3/4" due to variable live loading. This displacement will occur at the free end of cantilever beams and at midspan of simple span beams. Non-structural walls shall accommodate typical lateral movements of 1/2" between adjacent floors perpendicular and/or parallel to the wall.

Wall attachments shall not apply any lateral loads to the bottom flange of beams. If attachment is made to the bottom of beams, additional inclined strut bracing the bottom flange or other equivalent means to counteract this force shall be provided by the Contractor.

## SHOP DRAWINGS AND SUBMITTALS

### SHOP DRAWING & SUBMITTAL REVIEW (including Deferred Structural Components)

The contractor must review and stamp the shop drawings & submittals for review. SER will only review submittals for items shown on SER documents. Submittals for Deferred Structural Components will receive cursory review by SER for loads imposed on primary structure. SER will review shop drawings for general conformance with design concept of the project and general compliance with the information given in the Structural Contract Documents. Review of submittals does not constitute approval or acceptance of unauthorized deviation from Contract Documents.

Corrections or comments made on shop drawings during this review do not relieve contractor from compliance with the requirements of the plans and specifications.

### Contractor responsible for:

- Reviewing, approving, stamping and signing submittals prior to submittal to Architect and SER
- Timing submittals to allow two weeks of review time for the SER and time for corrections and/or resubmittal
- Conformance to requirements of the Contract Documents
- Dimensions and quantities
- Verifying information to be confirmed or coordinated
- Information solely for fabrication, safety, means, methods, techniques and sequences of construction
- Coordination of all trades

Resubmittals shall be clouded and dated for all changes to the submittal. Only clouded portions of resubmittals will be reviewed and SER's review stamp applies to only these areas.

### SUBSTITUTIONS

Substitutions shall be submitted in writing prior to submittal of shop drawings. Shop drawings bearing substitutions will be rejected. Submit engineering data to substantiate the equivalence of the proposed items. The SER's basic services contract does not include review of substitutions that require re-engineering of the item or adjacent structure. Nor does the SER's contract cover excessive review of proposed substitutions. The fees for making these reviews and/or redesign shall be paid by the contractor. Reviews and approvals shall not be made until authorization is received.

## SHOP DRAWINGS AND SUBMITTALS (cont'd)

### SUBMITTALS

Shop drawings and material submittals shall be submitted to the Architect and SER prior to any fabrication or construction for the following structural items. Submittals shall include one reproducible and one copy; reproducible will be marked and returned. If deviations, discrepancies, or conflicts between shop drawings submittals and the contract documents are discovered either prior to or after shop drawing submittals are processed by the SER, the Contract Documents control and shall be followed.

- Construction sequence description
- Contractor quality control testing procedures when required in specifications
- Concrete mix designs
- Concrete accessories material specification, size and location
- Glued laminated members (certificates shall be on site and be available upon request)
- Engineered wood beams (certificates shall be on site and be available upon request)
- Deferred Structural Components listed below

### DEFERRED STRUCTURAL COMPONENTS

Components referred to as Deferred Structural Components shall comply with these notes. These elements have not been permitted under the base building application. The contractor will be required to submit the component system documents to the building official for approval. The documents shall be stamped and signed by an engineer licensed by the state where the project is located. The deferred structural components shall not be installed until the design and submittal documents have been approved by the building official.

Prior to building department submittal, the deferred structural components submittals shall receive cursory review by SER for loads imposed on primary structure and general conformance with design concept of the project and general compliance with the information given in the Structural Contract Documents. Review of submittals does not constitute approval or acceptance of unauthorized deviation from Contract Documents. Submittals of contractor-designed components shall include the designing professional engineer's stamp and signature, as noted above. The submittal shall be approved by the component vendor prior to review by the SER. The designing professional is responsible for code conformance and all necessary connections not specifically called out on architectural or structural contract documents.

Submittals shall include details of connections to primary structure that indicate magnitude and direction of all loads imposed at point of connection. Design criteria shall be provided with submittal and calculations shall be made available upon request.

The following list includes the items that are defined as Deferred Structural Components. Refer to other discipline's contract documents for additional deferred components that may require structural design and details. Connections of these elements shall not induce torsion on structural members. Deferred Structural Components shall be manufactured, delivered, handled, stored, and field erected in conformance with instructions prepared by the component vendor.

### Deferred structural components:

- Plywood web joists
- Pre-manufactured wood trusses
- Continuous rod holdown systems

## GEOTECHNICAL

### GENERAL CRITERIA

Allowable soil pressure and lateral earth pressure are assumed and therefore must be verified by a Geotechnical Inspector or the building official. If soils are found to be other than assumed, notify the Structural Engineer for possible foundation redesign.

Unless noted otherwise, footings shall be centered below columns or walls.

### INSPECTIONS

All prepared soil-bearing surfaces shall be inspected by the owners Geotechnical Inspector (or building official) prior to placement of reinforcing steel and concrete. Inspections shall be made per IBC Table 1705.6.

### BEARING VALUES

All footings shall bear on undisturbed soil and shall be lowered to firm bearing if suitable soil is not found at elevations shown. Exterior footings shall bear a minimum of 18" below the finished ground surface. Footing elevations shown on plans (or in details) are minimum depths and for guidance only; the actual elevations of footings must be established by the Contractor in the field working with the Geotechnical Inspector.

### Allowable vertical bearing soil pressure = 1,500 psf

### Allowable lateral bearing soil pressure = 100 psf

### SUBGRADE PREPARATION.

Prepare subgrade per the Geotechnical Report, summarized as follows: All footings shall

## CONCRETE

### CAST-IN-PLACE CONCRETE

Concrete materials shall conform to the following:

Portland cement:	Type 1, ASTM C150
Fly ash (if used):	ASTM C618 class F or C
Slag cement (if used):	ASTM C989
Lightweight aggregates:	lightweight aggregates shall not be used without prior approval of SER and building department
Normal weight aggregates:	ASTM C33
Sand equivalent:	ASTM C33
Water:	Portable per ASTM C94
Air entraining admixtures:	ASTM C260
Chemical admixtures:	ASTM C494
Flowable concrete admixtures:	ASTM C1017

Durability requirements of concrete mixes shall conform to building code. These requirements include water-cementitious material ratios, minimum compressive strengths, air entrainment, type of cement, and maximum chloride ion content.

### CONCRETE STRENGTH REQUIREMENTS TABLE

Location	Strength f'c (psi)	Max Agg Size	Max W/C Ratio	Total Air Content	Fly Ash Content	Exposure...			
						F	S	P	C
LEAN MIX SOIL REPLACEMENT...	1,500	SAND	1.5...	-	-	F1	S0	P0	C1
FOUNDATIONS, GRADE BEAMS...	4,500	1"	0.44	4.5%	15-20%	F1	S0	P0	C1
WALLS, COLUMNS, ALL OTHER CONCRETE	4,500	3/4"	0.40	6%	20-30%	F2	S0	P0	C1

\* 28-DAY CONCRETE STRENGTH  
^ 3-DAY CONCRETE STRENGTH

### CONCRETE STRENGTH REQUIREMENTS

Concrete shall be mixed, proportioned, conveyed and placed in accordance with IBC Section 1904, 1905, 1906 and ACI 301, including testing procedures. Concrete shall attain a 28-day strength of f'c = 3,000 psi for purposes of weathering, and accommodate placement, while f'c = 2,500 psi is required for strength. Special inspection is not required for concrete with a 28-day strength greater than f'c = 2,500 psi for purposes of weathering per IBC 1704.6.

### CONCRETE MIXTURES

Mixes shall be proportioned to meet compliance requirements of ACI 318 Section 26.4.3. Slump, W/C ratio, admixtures and aggregate size will be determined by the contractor. Submit documentation of concrete mixture characteristics for review by the SER before the mixture is used and before making changes to mixtures already in use. Documentation shall comply with ACI 318 Section 26.4.4.

All concrete, including slab on grade, shall contain an acceptable water-reducing admixture conforming to ASTM C494 and be used in strict accordance with the manufacturer's recommendations.

All concrete which is exposed to freezing and thawing in a moist condition or exposed to deicing chemicals shall contain an air entraining agent, conforming to ASTM C260. Total air content shall be adjusted per ACI 318 for mix designs with smaller nominal aggregate size. The amount of entrained air shall be measured at the discharge end of the placing nozzle. Entrained air shall be as noted ± 1.0% by volume. Air-entrainment shall not be used at slabs that will receive a smooth, dense, hard-troweled finish.

Trucks hauling plant-mixed concrete shall arrive on-site with a field ticket indicating the maximum gallons of water that can be added at the site not to exceed the total water content in the approved mix design.

Concrete shall be deposited as nearly as practicable in its final position to avoid segregation due to rehandling or flowing. Concrete shall be thoroughly consolidated by suitable means during placement and shall be thoroughly worked around reinforcement, embedded items, and into corners of forms.

### FORMWORK AND ACCESSORIES

Concrete construction shall conform to ACI 301 "Specifications for Structural Concrete" and the Building Code, including testing procedures. See specifications and/or architectural documents for formwork requirements. Installation shall adhere to ACI 301. Conduits and pipes of aluminum shall not be embedded in concrete construction.

See architectural drawings for exact locations and dimensions of door and window openings in all concrete walls. See mechanical drawings for size and location of mechanical openings through concrete walls. See architectural drawings for all grooves, notches, chamfers, feature strips, color, texture, and other finish details at all exposed concrete surfaces, both cast-in-place and precast. See structural details for reinforcing around openings.

Contractor shall submit the proposed locations of construction joints to the Architect for acceptance before starting construction. Erico Lenton Formasaver (IAPMO-UES-ER-0129) may be used as an alternate to the roughened joint. All construction, control, and isolation joints for slabs on ground shall be in accordance with the typical details.

Concrete accessories and embedded items shall be coordinated with Architectural and all other Contract Documents and suppliers' drawings before placing concrete. Wet-setting of anchor rods, reinforcing, hardware, etc. is not allowed in concrete. Anchor rods, reinforcing, hardware, etc. shall be firmly tied in place prior to concrete placement.

Refer to Architectural documents for waterstops, damp proofing, and soil retaining wall drainage requirements at concrete and at concrete joints (construction joints, slab to wall joints, curb to slab joints, etc.).

### CURING AND FINISHES

Protect and cure freshly placed concrete per ACI 305.1 in hot conditions, ACI 306.1 in cold conditions, and ACI 308.1 "Specification for Curing Concrete". All exposed edges and corners shall have 3/4" chamfer, UNO. Concrete flatwork shall be sloped to provide positive drainage. Coordinate finish with architectural contract documents.

At the time of application of finish materials or special treatment to concrete, moisture content of concrete shall conform to requirements in finish material specifications. Where vapor sensitive coverings are to be placed on slabs on grade, conform strictly to slab covering manufacturer's recommendations regarding vapor retarder and granular fill requirements below the slab.

### CONCRETE CRACK MAINTENANCE

Cracking occurs in concrete structures due to inherent shrinkage, creep, and the restraining effects of walls and other structural elements. Most cracking due to shrinkage and creep will likely occur over the first two years of the life of the structure; further concrete movement due to variations in temperature may persist. Cracks that result in water penetration will need to be repaired to protect reinforcing. Other cracking may be repaired at the owner's discretion for aesthetical reasons or performance of applied finishes. Prior to repairing cracks, a structural engineer should be consulted to provide direction on which cracks to repair and on whether observed cracks may affect the strength of the structure.

## REINFORCEMENT IN CONCRETE AND MASONRY

### REINFORCING STEEL

Reinforcing steel shall conform to ASTM A615 (including supplement S1), Grade 60, Fy = 60,000 psi, except any bars specifically so noted on the drawings shall be Grade 40, Fy = 40,000 psi.

### HIGH-STRENGTH THREADED BARS

High-strength threaded bars (stressed and non-stressed) shall be Dywidag Threadbars with appropriate anchorage plates, nuts, and couplers as manufactured by Dywidag International Inc.

### WELDED WIRE REINFORCING

Welded Wire Reinforcing (WWR) shall conform to ASTM A185. Lap splice adjacent mats of welded wire fabric a minimum of 8" at sides and ends. In equipment pads, use minimum WWR 6x6-W2.1xW2.1, UNO.

### PROCEDURES

Reinforcing steel shall be detailed (including hooks and bends) in accordance with ACI 315 "Details and Detailing of Concrete Reinforcement". Lap all reinforcement in accordance with "The Reinforcing Splice and Development Length Schedule" on these documents. If table is not provided, lap all reinforcing by 40 bar diameters. Provide corner bars at all wall and footing intersections.

Reinforcing steel shall be adequately supported to prevent displacement during concrete and grout placement. Bars shall be bent cold.

Bars partially embedded in concrete shall not be field bent, unless specifically so detailed or approved by the SER.

Mechanical connection of continuous reinforcing bar shall be used where shown on documents and may be substituted for lap splices if approved by the SER. Such connections shall develop at least 125% of the specified yield strength of the bar. Acceptable connectors shall be the Erico Lenton Plus Standard Coupler (ER-3967), Dayton Superior Bar-Lock L Series (ER-5064), or approved equal.

Welding or tack welding of reinforcing bars to other bars or to plates, angles, etc. is prohibited, except where specifically approved by the SER. Where welding is approved, it shall be done by AWS/WABO-certified welders using E9018 or approved electrodes. Welding procedures shall conform to the requirements of AWS D1.4. Any Grade 60 reinforcing bars indicated on drawings to be welded shall conform to ASTM A706. Reinforcement complying with ASTM A615 (S1) may be welded only if material property reports indicating conformance with welding procedures specified in AWS D1.4 are submitted. Welding within 4" of cold bends in reinforcing steel is not permitted.

## ANCHORAGE

Post-installed anchors shall not be installed without prior approval of engineer of record unless noted otherwise on the plans.

### ADHESIVE ANCHORS

Adhesive anchors (threaded rods or reinforcing bar) specified on the drawings shall be installed using "AT-XP" anchoring adhesive as manufactured by the Simpson Strong-Tie Company. Install in strict accordance with IAPMO Report Number ER-263 (into concrete) or ER-281 (into masonry). At concrete masonry or brick masonry applications, bolts shall be installed into fully-grouted cells. Rods shall be ASTM F1554 Gr.55, unless noted otherwise. Special inspection of installation is required.

### EXPANSION ANCHORS

Expansion anchors into concrete and concrete masonry units shall be "Strong Bolt 2" as manufactured by the Simpson Strong-Tie Company. Install in strict accordance with ICC Report Number ESR-3037 (into concrete) or IAPMO Report Number ER-240 (into masonry), including minimum embedment requirements. At concrete masonry or brick masonry applications, bolts shall be installed into fully-grouted cells. Substitutes proposed by contractor shall be submitted for review with ICC reports indicating equivalent or greater load capacities. Special inspection of installation is required.

## WOOD

### MATERIAL CRITERIA

Framing lumber shall be kiln dried or MC-19 (unless more stringent criteria are required in these notes or on the drawings) and graded and marked in conformance with the latest WCLB "Standard Grading Rules No. 17 for West Coast Lumber". Furnish to the following minimum standards:

### WOOD STANDARDS

Member	Grade	Moisture Content
4x BEAMS & POSTS, 6x POSTS	DF #2	MC19
4x TREATED BEAMS & POSTS, AND 6x TREATED POSTS	DF #2	MC19
2x JOISTS, RAFTERS, BUILT-UP BEAMS, AND HEADERS	DF #2	MC19
2x, 3x FLATWISE & EDGEWISE BLOCKING	DF STANDARD	MC19
3x NAILERS ON STEEL BEAMS	DF #2	MC19
2x4 AND 2x6 STUDS	DF STUD	MC19
3x STUDS	DF #2	MC19
2x4 PLATES	DF STANDARD	KD15
2x6 PLATES	DF #2	KD15
2x, 3x, AND 4x TREATED PLATES, LEDGERS	DF #2	KD15

### MOISTURE CONTENT AND CARE OF MATERIAL DURING CONSTRUCTION

All 2x studs and plates shall be kiln dried. The Contractor shall take measures to minimize exposure of sawn lumber and engineered wood products to moisture during construction. Excessive changes in moisture content during construction may result in swelling and shrinkage of a single story level in the magnitude of 1/2". This may create problems where multi-story wood construction joins multi-story concrete wall construction. All wood framed construction shall have maximum moisture content not to exceed 10% at time of fur-out, which shall be verified by a testing agency hired by the Owner. These test results shall be submitted to the Architect and Structural Engineer of Record for review prior to installation and interior drywall installation is performed. In addition, pre-loading the entire wood building with the interior drywall while the building is being dried out is recommended before wood ledgers are attached to concrete shear walls.

Wood joists and beams supporting topping slabs or subjected to construction loading shall have a maximum live load deflection of 1/600. The contractor shall be responsible for ensuring that the moisture content of wood members supporting concrete or construction loads is, and remains, at 10% or less. Wood framing with higher moisture contents before, or during, the placement of topping slabs or subjected to construction loading are subject to excessive creep. Contractor to provide means to maintain the moisture content as required to prevent creep.

### VERTICAL SHRINKAGE

Allow for 1/2" of wood shrinkage/compression at each level (including foundation). Values are cumulative for the height of the building. Building systems such as mechanical, electrical, plumbing, fire sprinklers, etc. shall have flexible components that account for the potential wood shrinkage/compression. Architectural finishes shall also account for the potential wood shrinkage/compression.

### TREATED WOOD

All wood framing in direct contact with concrete or masonry, exposed to weather, or that rest on exterior foundation walls and are located within 8" of earth, shall be pressure-treated with an approved preservative per IBC section 2303.1.9. Cut or drilled sections of treated material shall be treated with an approved preservative per IBC section 2303.1.9. See IBC section 2304.12 for additional requirements.

## WOOD (cont'd)

### GLU-LAMINATED MATERIAL

Glued laminated members shall be fabricated in conformance with ANSI/AITC A190.1 AND ASTM D3737. Stress Class 24F-1.8E. Each member shall bear an AITC identification mark and shall be accompanied by an AITC certificate of conformance. All simple span beams shall be douglas fir combination 24F-V4, fb = 2,400 psi, fv = 265 psi and all cantilevered beams and columns shall be Douglas fir combination 24F-V8, fb = 2,400 psi, fv = 265 psi unless noted otherwise. Camber all simple span glu laminated beams to 3,500' radius or zero camber, unless shown otherwise on the plans.

### STRUCTURAL COMPOSITE LUMBER

Manufactured lumber, PSL, LVL, and LSL, shall be manufactured under a process approved by the national research board. Each piece shall bear a stamp or stamps noting the name and plant number of the manufacturer, the grade, the national research board number, and the quality control agency. All PSL, LVL and LSL lumber shall be manufactured in accordance with ICC Report ESR-1387. LVL lumber shall be manufactured using veneer glued with a waterproof the requirements of ASTM D2559 with all grain parallel with the length of the member. The members shall have the following minimum properties:

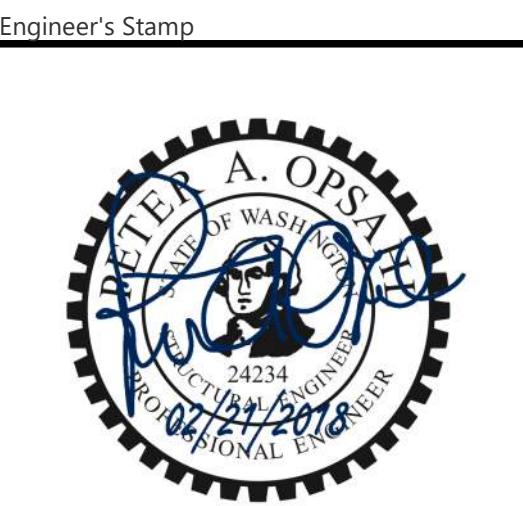
### MINIMUM DESIGN PROPERTIES FOR COMPOSITE LUMBER

Grade	Orientation	E (ksi)	Fb (psi)	Fcl (psi)	Fv (psi)
1.55E LSL	BEAM	1,550	2,325	2,170	310
2.0E LVL	BEAM	2,000	2,600	2,510	285
1.8E PSL	COLUMN	1,800	2,400	2,500	190
2.0E PSL	BEAM	2,000	2,900	2,900	290

Design shown on plans is based on Trus-Joist products manufactured by the Weyerhaeuser Corporation. Alternate manufacturers may be used subject to review and approval by the Architect and Structural Engineer of Record. Alternative joist hangers and other hardware may be substituted for items shown provided they have ICC approval for equal or greater load capacities. All joist hangers and other hardware shall be compatible in size with members provided.

### PLYWOOD WEB JOISTS

Prefabricated plywood web joist design shown on plans is based on Trus-Joist products manufactured by the Weyerhaeuser Corporation. Alternate plywood web joist manufacturers may be used provided they conform with the ICC evaluation service reports ESR-1387 and ESR-1153 and are subject to review and approval by the Architect and Structural Engineer of Record. Alternate plywood web joists must have equivalent section properties and allowable stresses to those previously specified to be considered. Alternate joist hangers and other hardware may be substituted for items shown provided they have ICC approval for equal or greater load capacities. All joist hangers and other hardware shall be compatible in size with plywood web joist provided. All necessary bridging, blocking, panels, stiffeners, etc., shall be detailed and furnished by the manufacturer. All permanent and temporary bridging shall be installed in conformance with manufacturer's specifications. The following deflection criteria shall be maintained with all alternates.



Project Title \_\_\_\_\_

10341 NE 141st Place  
Kirkland, WA 98034

Project Information  
Project No. 17-148-01  
Checked By PO  
Issue PERMIT SET 02/21/2018  
PERMIT RESPONSE 07/17/2018  
REVISION 3 03/04/2022

Department Approval \_\_\_\_\_

Sheet Title Foundation Plan

Sheet Number \_\_\_\_\_

S2.00

# SUPERSEDED



## 1 Foundation Plan

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

### FOUNDATION PLAN NOTES

#### 1. GENERAL

1.1. ELEVATION AT TOP OF SLAB SHALL BE XX'-X", UNO.  
ELEVATION AT TOP OF FOOTING SHALL BE XX'-X" BELOW TOP OF SLAB, UNO.  
[X'-X"] INDICATES ELEVATION AT TOP OF FOOTING, MEASURED IN FEET.

FOOTING ELEVATIONS SHOWN ARE FOR CONTRACTOR CONVENIENCE AND BIDDING ONLY.  
FINAL ELEVATIONS SHALL BE DETERMINED BY ON-SITE VERIFICATION BY SOILS ENGINEER,  
BUT SHALL NOT BE SHALLOWER THAN THOSE SHOWN ON THIS PLAN.  
REFER TO STRUCTURAL GENERAL NOTES FOR ADDITIONAL INFORMATION.

1.2. GRID LINES ARE TO FACE OF STUD AND CENTERLINE OF COLUMN. REFER TO ARCHITECTURAL  
DRAWINGS FOR DIMENSIONS NOT SHOWN.

#### 2. FOUNDATIONS

2.1. EXCAVATE, BACKFILL, AND PREPARE SOILS AS REQUIRED PER STRUCTURAL GENERAL NOTES  
AND GEOTECHNICAL REPORT.

2.2. STEP FOOTINGS FOR UNDERGROUND PIPING AND AS REQUIRED PER TYPICAL STEPPED  
FOOTING DETAIL.

2.3. (E) FOUNDATIONS SUPPORTING WALLS ARE ASSUMED TO BE 8" THICK x 1'-2" TALL CONCRETE  
STEM WALL ON 10" THICK x 2'-0" WIDE CONTINUOUS FOOTINGS. CONTRACTOR TO VERIFY.

2.4. (E) FOUNDATIONS SUPPORTING CRAWL SPACE POSTS ARE ASSUMED TO BE 10" THICK x 2'-0"  
WIDE CONTINUOUS FOOTINGS. CONTRACTOR TO VERIFY.

#### 3. FLOORS

3.1. FLOOR SHALL BE 23/32" APA-RATED SHEATHING, (48/24) EXPOSURE 1,  
TONGUE & GROOVE, GLUED AND NAILED. WHERE BLOCKED DIAPHRAGM IS NOTED ON PLAN,  
2x FLAT BLOCKING AND 'Z' CLIPS AT UNSUPPORTED PANEL EDGES.

NAIL SHEATHING AS FOLLOWS:

FLOOR BOUNDARY (BN).....	10d @ 6"
PANEL EDGES (EN).....	10d @ 6"
OTHER SUPPORTS, FIELD NAILING.....	10d @ 10"
BLOCKING, INTERIOR RIM JOISTS & STRUTS.....	10d @ 4"

NAILS SHALL BE DRIVEN FLUSH WITH THE FACE OF SHEATHING. GLUE SHALL CONFORM TO  
AFG-01.

3.2. TYPICAL RIM JOISTS SHALL BE MINIMUM 1 1/2" LSL, UNO. REFER TO SHEAR WALL SCHEDULE  
FOR ADDITIONAL REQUIREMENTS AT RIMS.

#### 4. WALLS AND COLUMNS ABOVE

4.1. STRUCTURAL WALL STUDS AT THIS LEVEL SHALL BE AS FOLLOWS, UNO:  
EXTERIOR WALLS..... 2x6 @ 16" OC  
INTERIOR WALLS..... 2x6 @ 16" OC

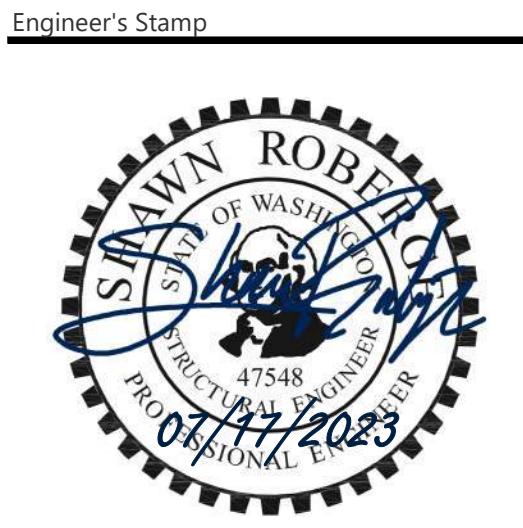
SEE DETAIL SHEET S4.00 FOR TYPICAL WALL FRAMING REQUIREMENTS AND FOR TYPICAL  
SHEARWALL REQUIREMENTS. FRAME ALL SHEARWALL INTERSECTIONS PER TYPICAL DETAILS.  
STRAP ALL SHEAR WALL OPENINGS PER S7/S4.02 AND S8/S4.02.

4.2. ALL NEW EXTERIOR WALLS SHALL BE SW6, UNO.

4.3. USE (1) KING STUD AND (1) TRIMMER STUD AT EXTERIOR HEADERS AT THIS LEVEL.

4.4. EXISTING SHEAR WALLS ARE 1/2" PLYWOOD WITH 10d @ 4" OC EDGE NAILING AND 10d @ 12"  
OC FIELD NAILING. CONTRACTOR TO VERIFY.

 SWx	SHEAR WALL PER4/S4.00.
● STHD	SIMPSON STRAP TIE HOLDOWN USE (2) 2x MIN HOLDDOWN STUDS. SEE S4.03.
● HDU	SIMPSON TENSION TIE HOLDDOWN USE (2) 2x MIN HOLDDOWN STUDS. SEE S4.03.
— K + t	NUMBER OF KINGS PLUS TRIMMERS, UP FROM THIS LEVEL.



Project Title \_\_\_\_\_

## Aguilar Addition

10341 NE 141st Place  
Kirkland, WA 98034

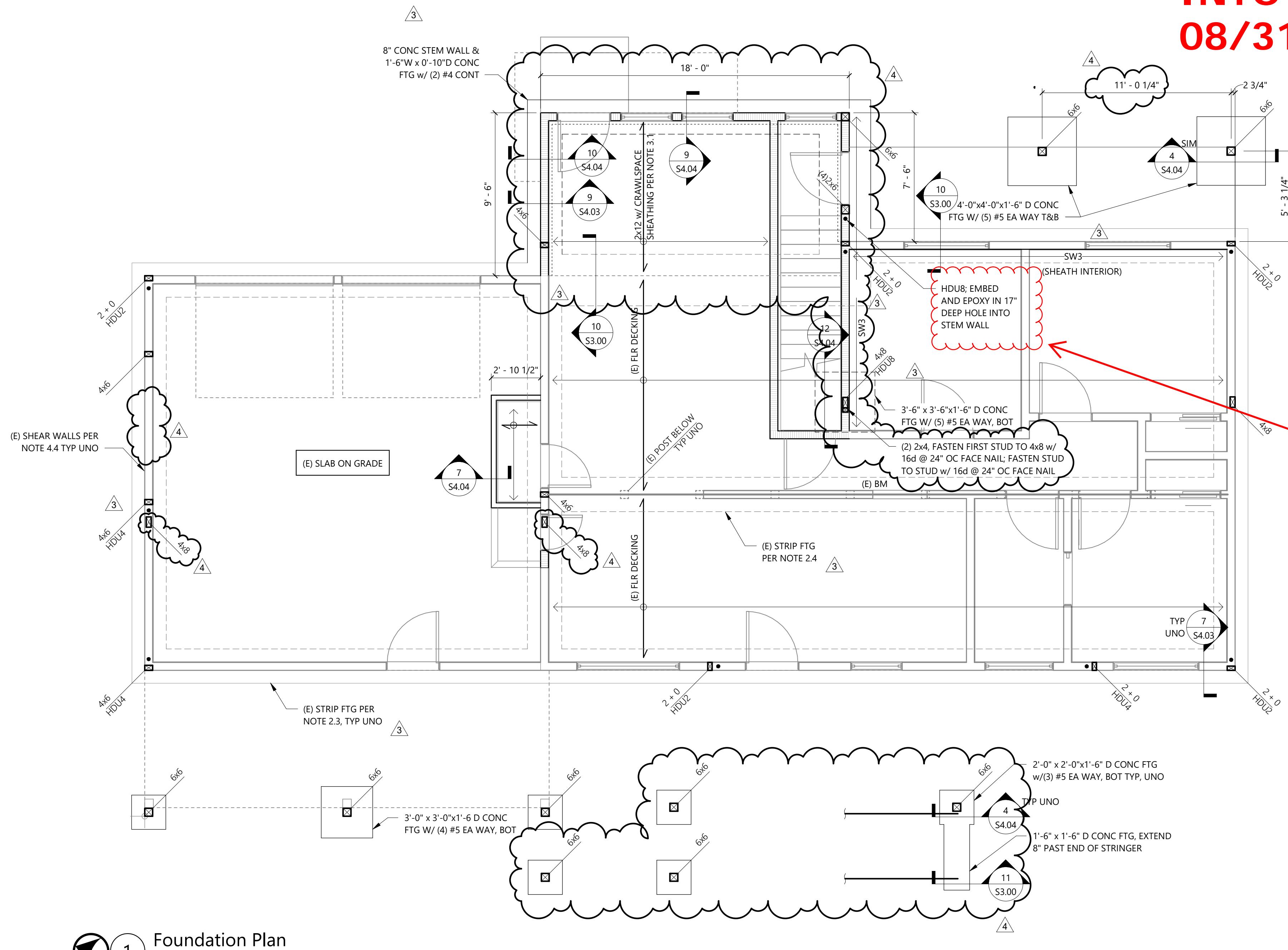
Project Information  
Project No. 17-148-01  
Checked By PO  
Issue PERMIT SET 02/21/2018  
PERMIT RESPONSE 07/17/2018  
REVISION 3 03/04/2022  
REVISION 4 07/11/2023

Department Approval \_\_\_\_\_

Sheet Title Foundation Plan

Sheet Number \_\_\_\_\_

S2.00



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

### FOUNDATION PLAN NOTES

#### 1. GENERAL

- 1.1. ELEVATION AT TOP OF SLAB SHALL BE XX'-X", UNO. ELEVATION AT TOP OF FOOTING SHALL BE XX'-X" BELOW TOP OF SLAB, UNO. [-X'-X"] INDICATES ELEVATION AT TOP OF FOOTING, MEASURED IN FEET. FOOTING ELEVATIONS SHOWN ARE FOR CONTRACTOR CONVENIENCE AND BIDDING ONLY. FINAL ELEVATIONS SHALL BE DETERMINED BY ON-SITE VERIFICATION BY SOILS ENGINEER, BUT SHALL NOT BE SHALLOWER THAN THOSE SHOWN ON THIS PLAN. REFER TO STRUCTURAL GENERAL NOTES FOR ADDITIONAL INFORMATION.
- 1.2. GRID LINES ARE TO FACE OF STUD AND CENTERLINE OF COLUMN. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.

#### 2. FOUNDATIONS

- 2.1. EXCAVATE, BACKFILL, AND PREPARE SOILS AS REQUIRED PER STRUCTURAL GENERAL NOTES AND GEOTECHNICAL REPORT.
- 2.2. STEP FOOTINGS FOR UNDERGROUND PIPING AND AS REQUIRED PER TYPICAL STEPPED FOOTING DETAIL.
- 2.3. (E) FOUNDATIONS SUPPORTING WALLS ARE ASSUMED TO BE 8" THICK x 1'-2" TALL CONCRETE STEM WALL ON 10" THICK x 2'-0" WIDE CONTINUOUS FOOTINGS. CONTRACTOR TO VERIFY.
- 2.4. (E) FOUNDATIONS SUPPORTING CRAWL SPACE POSTS ARE ASSUMED TO BE 10" THICK x 2'-0" WIDE CONTINUOUS FOOTINGS. CONTRACTOR TO VERIFY.

#### 3. FLOORS

- 3.1. FLOOR SHALL BE 23/32" APA-RATED SHEATHING, (48/24) EXPOSURE 1, TONGUE & GROOVE, GLUED AND NAILED. WHERE BLOCKED DIAPHRAGM IS NOTED ON PLAN, USE 2x FLAT BLOCKING AND 'Z' CLIPS AT UNSUPPORTED PANEL EDGES.

#### NAIL SHEATHING AS FOLLOWS:

FLOOR BOUNDARY (BN).....	10d @ 6"
PANEL EDGES (EN).....	10d @ 6"
OTHER SUPPORTS, FIELD NAILING.....	10d @ 10"
BLOCKING, INTERIOR RIM JOISTS & STRUTS.....	10d @ 4"

NAILS SHALL BE DRIVEN FLUSH WITH THE FACE OF SHEATHING. GLUE SHALL CONFORM TO APA AFG-01.

- 3.2. TYPICAL RIM JOISTS SHALL BE MINIMUM 1 1/2" LSL, UNO. REFER TO SHEAR WALL SCHEDULE FOR ADDITIONAL REQUIREMENTS AT RIMS.

#### 4. WALLS AND COLUMNS ABOVE

- 4.1. STRUCTURAL WALL STUDS AT THIS LEVEL SHALL BE AS FOLLOWS, UNO:

EXTERIOR WALLS..... 2x6 @ 16" OC  
INTERIOR WALLS..... 2x6 @ 16" OC

SEE DETAIL SHEET S4.00 FOR TYPICAL WALL FRAMING REQUIREMENTS AND FOR TYPICAL SHEARWALL REQUIREMENTS. FRAME ALL SHEARWALL INTERSECTIONS PER TYPICAL DETAILS. STRAP ALL SHEAR WALL OPENINGS PER S7/S4.02 AND S8/S4.02.

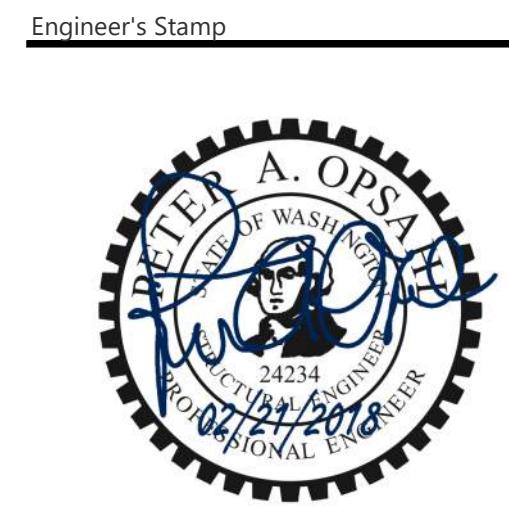
- 4.2. ALL NEW EXTERIOR WALLS SHALL BE SW6, UNO.

4.3. USE (1) KING STUD AND (1) TRIMMER STUD AT EXTERIOR HOLLOW WOOD WALL LEVEL.

4.4. EXISTING SHEARWALLS ARE 1 1/2" PLANKWOOD WITH 10 1/2" OC EDGE NAILING AND 10 1/2" OC FIELD NAILING. CONTRACTOR TO VERIFY.

#### LEGEND

SWx	SHEAR WALL PER4/S4.00.
STHD	SIMPSON STRAP TIE HOLDDOWN USE (2) 2x MIN HOLDDOWN STUDS. SEE S4.03.
HDU	SIMPSON TENSION TIE HOLDDOWN USE (2) 2x MIN HOLDDOWN STUDS. SEE S4.03.
K + t	NUMBER OF KINGS PLUS TRIMMERS, UP FROM THIS LEVEL.



Project Title \_\_\_\_\_

10341 NE 141st Place  
Kirkland, WA 98034

Aguilar Addition

Project Information

Project No. 17-148-01

Checked By PO

Issue \_\_\_\_\_

PERMIT SET 02/21/2018

PERMIT RESPONSE 07/17/2018

REVISION 3 03/04/2022

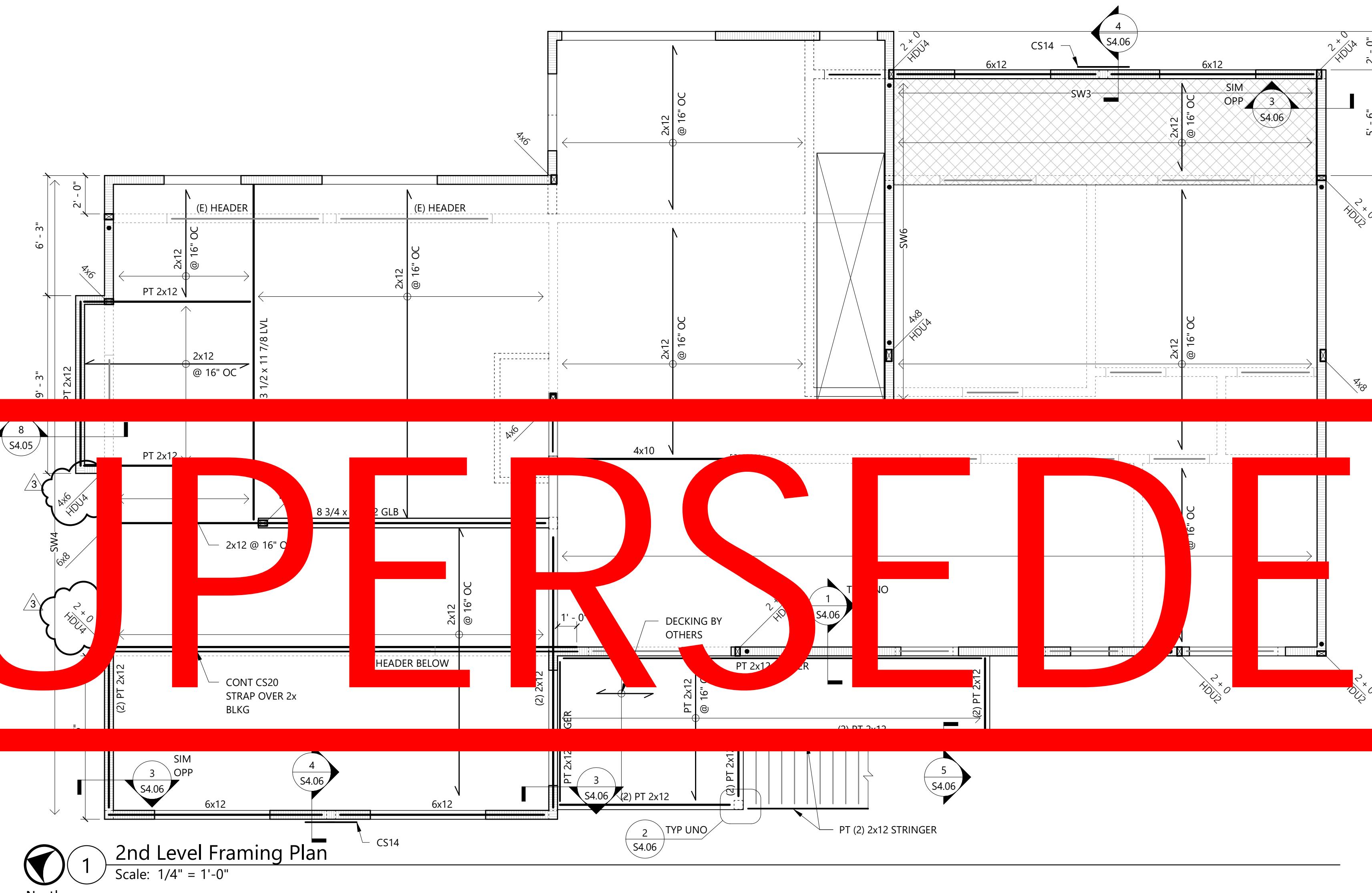
Department Approval

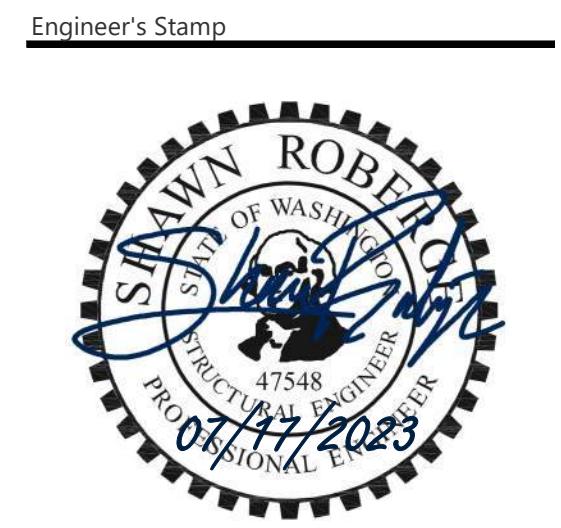
Sheet Title \_\_\_\_\_

Upper Level  
Framing Plan

Sheet Number \_\_\_\_\_

S2.01





Project Title

## Aguilar Addition

10341 NE 141st Place  
Kirkland, WA 98034

### Project Information

Project No. 17-148-01

Checked By PO

### Issue

PERMIT SET 02/21/2018  
PERMIT RESPONSE 07/17/2018  
REVISION 3 03/04/2022  
REVISION 4 07/11/2023

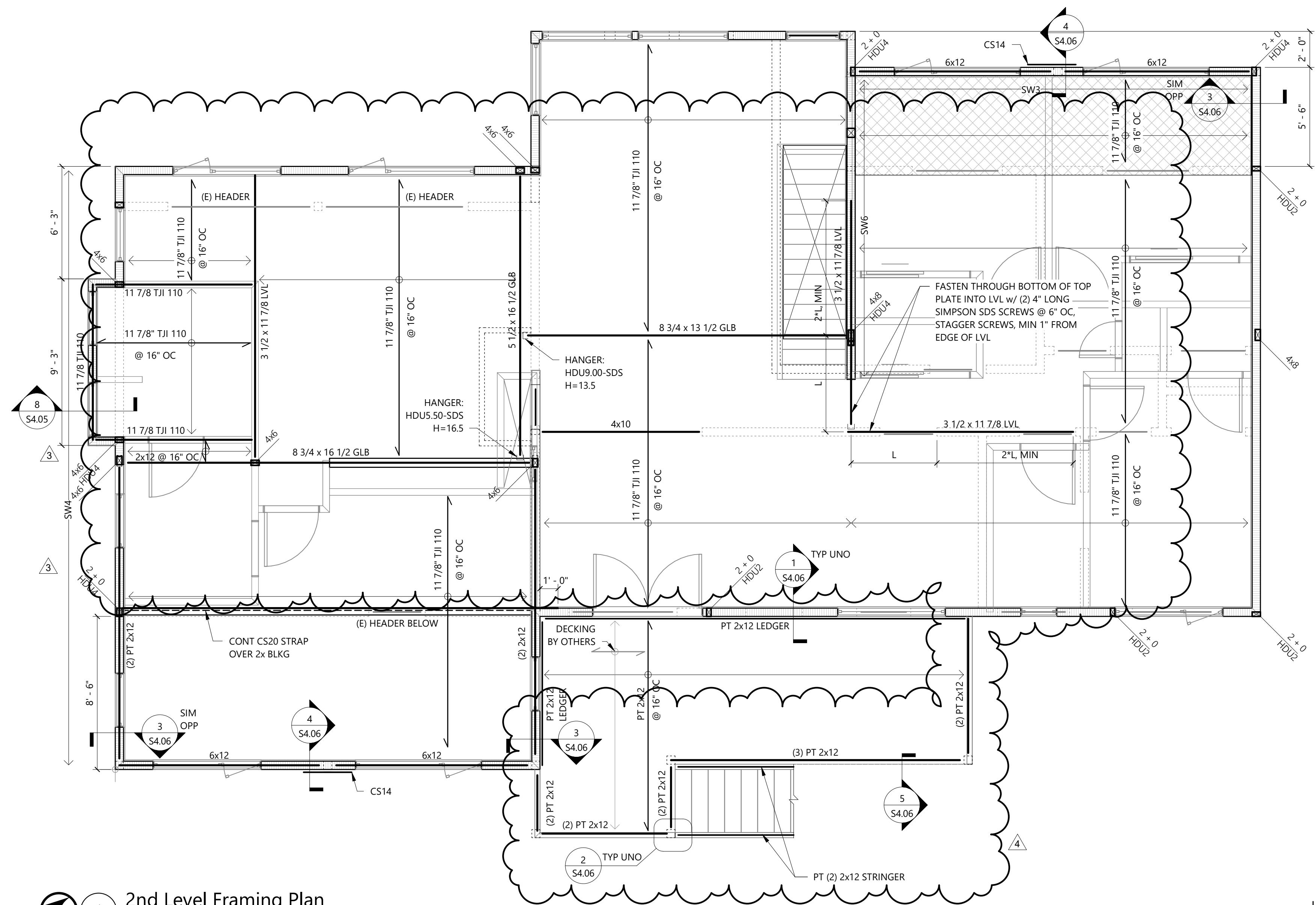
### Department Approval

### Sheet Title

Upper Level  
Framing Plan

### Sheet Number

S2.01



### 1 2nd Level Framing Plan

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

North

### WOOD FLOOR FRAMING PLAN NOTES

#### 1. GENERAL

- ELEVATION AT TOP OF SHEATHING SHALL BE PER ARCH, UNO.
- GRID LINES ARE TO FACE OF STUD AND CENTERLINE OF COLUMN. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.

#### 2. FLOORS

- FLOOR SHALL BE 23/32" APA-RATED SHEATHING, (48/24) EXPOSURE 1, TONGUE & GROOVE, GLUED AND NAILED. WHERE BLOCKED DIAPHRAGM IS NOTED ON PLAN, USE 2x FLAT BLOCKING AND 'Z' CLIPS AT UNSUPPORTED PANEL EDGES.
- NAIL SHEATHING AS FOLLOWS:

FLOOR BOUNDARY (BN)..... 10d @ 6"  
PANEL EDGES (EN)..... 10d @ 6"  
OTHER SUPPORTS, FIELD NAILING..... 10d @ 10"  
BLOCKING, INTERIOR RIM JOISTS & STRUTS..... 10d @ 4"

- NAILS SHALL BE DRIVEN FLUSH WITH THE FACE OF SHEATHING. GLUE SHALL CONFORM TO APA AFG-01.
- TYPICAL RIM JOISTS SHALL BE MINIMUM 1 1/2" LSL, UNO. REFER TO SHEAR WALL SCHEDULE FOR ADDITIONAL REQUIREMENTS AT RIMS.
- TYPICAL HEADER SHALL BE 4x10 OF NO. 2, UNO.
- DECK FRAMING SHALL BE TREATED LUMBER, UNO.

#### 3. WALLS

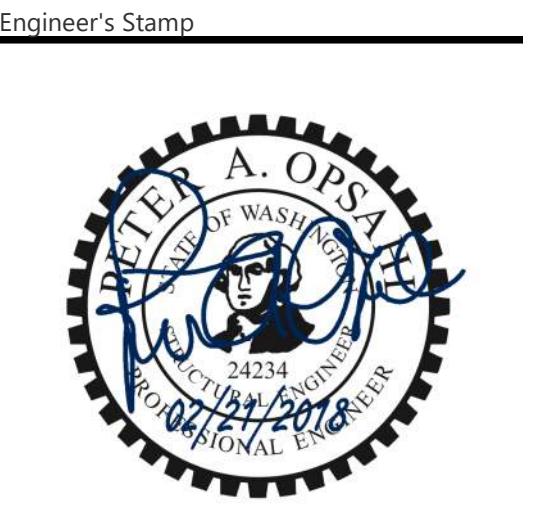
- STRUCTURAL WALL STUDS AT THIS LEVEL SHALL BE AS FOLLOWS, UNO:
 

EXTERIOR WALLS.....	2x6 @ 16" OC
INTERIOR WALLS.....	2x6 @ 16" OC

 SEE DETAIL SHEET S4.00 FOR TYPICAL WALL FRAMING REQUIREMENTS AND FOR TYPICAL SHEARWALL REQUIREMENTS. FRAME ALL SHEAR WALL INTERSECTIONS PER TYPICAL DETAILS. STRAP ALL SHEAR WALL OPENINGS PER 7/S4.02 AND 8/S4.02.
- ALL EXTERIOR WALLS SHALL BE SW6, UNO.
- USE (1) KING STUD AND (1) TRIMMER STUD AT EXTERIOR HEADERS AT THIS LEVEL, UNO.

### LEGEND

- STRUCTURAL WALL BELOW WITH HEADER (CONT WALL PLATES)
- STRUCTURAL WALL BELOW WITH FLUSH BEAM (BREAK WALL PLATES)
- STRUCTURAL WALL THIS LEVEL WITH CONT SILL PLATE AT OPENING
- STRUCTURAL WALL THIS LEVEL WITH BREAK IN SILL PLATE AT OPENING.
- FLOOR JOIST & EXTENT. SEE NOTE 3.
- BEAM PER PLAN OR HEADER PER NOTE
- JOIST HANGER
- SHEAR WALL PER4/S4.00
- STHD SIMPSON STRAP TIE HOLDOWN  
USE (2) 2x MIN HOLDDOWN STUDS. SEE S4.03.
- HDU SIMPSON TENSION TIE HOLDOWN  
USE (2) 2x MIN HOLDDOWN STUDS. SEE S4.03.
- K + t NUMBER OF KINGS PLUS TRIMMERS, UP FROM THIS LEVEL.
- BLOCKED DIAPHRAGM PER 3/S4.02



Project Title

## Aguilar Addition

10341 NE 141st Place  
Kirkland, WA 98034

Project Information

Project No. 17-148-01

Checked By PO

Issue

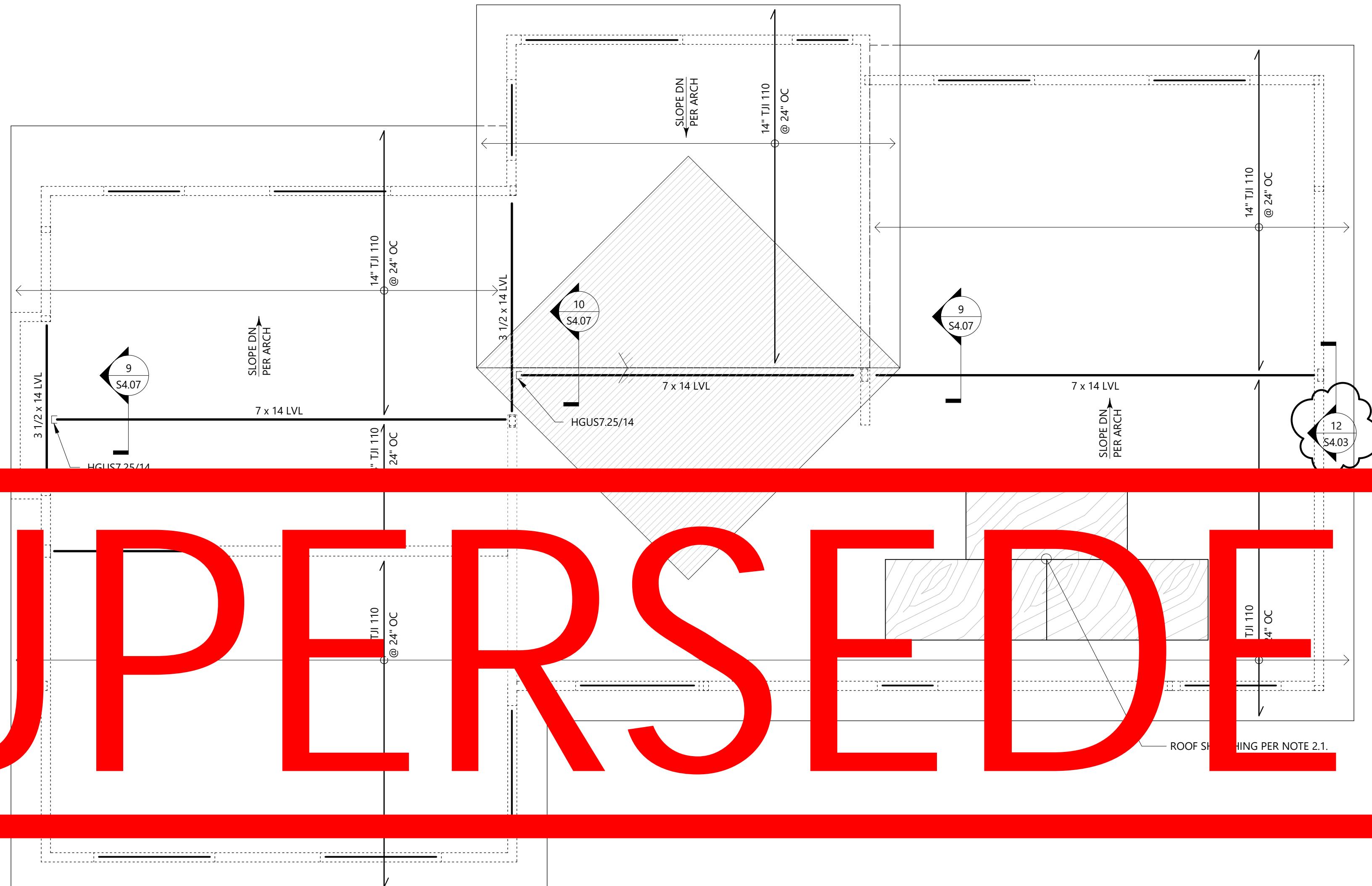
PERMIT SET 02/21/2018  
REVISON 3 03/04/2022

Department Approval

Sheet Title  
Roof Framing  
Plan

Sheet Number

S2.02



### 1 Roof Framing Plan

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

#### WOOD ROOF FRAMING PLAN NOTES

##### 1. GENERAL

- ELEVATION AT TOP OF SHEATHING SHALL BE PER ARCH, UNO.
- GRID LINES ARE TO FACE OF STUD AND CENTERLINE OF COLUMN. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.

##### 2. ROOF

- ROOF SHEATHING SHALL BE 19/32" APA RATED SHEATHING (32/16), EXPOSURE 1. WHERE BLOCKED DIAPHRAGM IS NOTED ON PLAN, USE 2x4 FLAT BLOCKING AND 'Z' CLIPS AT UNSUPPORTED PANEL EDGES.

##### NAIL SHEATHING AS FOLLOWS:

ROOF BOUNDARY (BN).....	10d @ 6"
PANEL EDGES (EN).....	10d @ 6"
OTHER SUPPORTS, FIELD NAILING.....	10d @ 12"
BLOCKING, INTERIOR RIM JOISTS & STRUTS.....	10d @ 6"

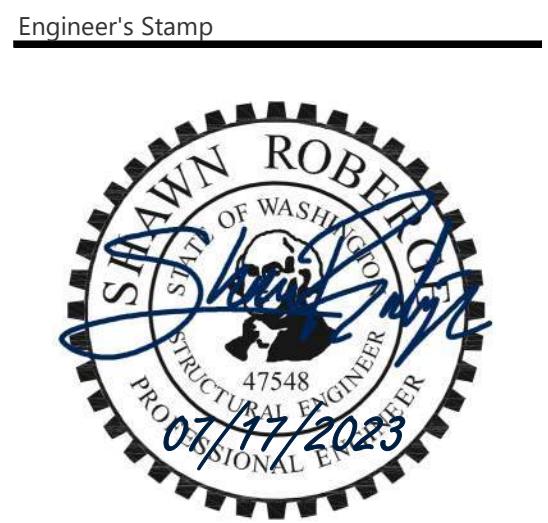
NAILS SHALL BE FLUSH WITH THE FACE OF SHEATHING.

- TYPICAL RIM JOISTS SHALL BE MINIMUM 1 1/2" LSL, UNO. REFER TO SHEAR WALL SCHEDULE FOR ADDITIONAL REQUIREMENTS AT RIMS.

- TYPICAL INTERIOR HEADER SHALL BE 4x10 DF NO.2 UNO. RIM IS HEADER AT EXTERIOR WALLS. DO NOT SPLICE RIM OVER OPENINGS.

#### LEGEND

- STRUCTURAL WALL BELOW WITH HEADER (CONT WALL PLATES)
- STRUCTURAL WALL BELOW WITH FLUSH BEAM (BREAK WALL PLATES)
- FLOOR JOIST & EXTENT. SEE NOTE 3.
- BEAM PER PLAN OR HEADER PER NOTE
- JOIST HANGER
- INDICATES OVERFRAMING



Project Title

## Aguilar Addition

10341 NE 141st Place  
Kirkland, WA 98034

Project Information

Project No. 17-148-01

Checked By PO

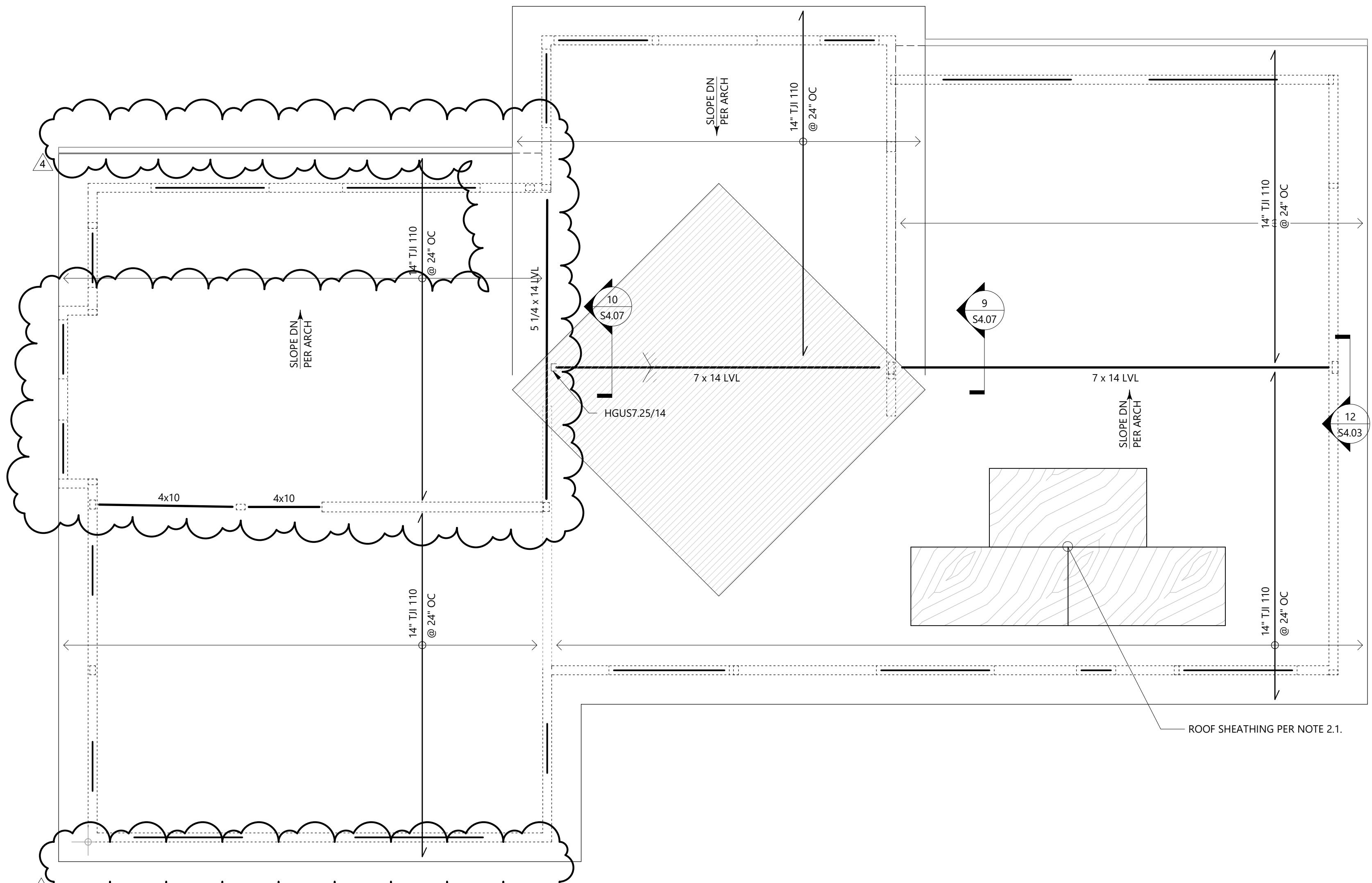
Issue

PERMIT SET 02/21/2018  
REV 3 03/04/2022  
REV 4 07/11/2023

Department Approval

Sheet Title  
Roof Framing  
Plan

Sheet Number



1 Roof Framing Plan

North

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

### WOOD ROOF FRAMING PLAN NOTES

#### 1. GENERAL

- ELEVATION AT TOP OF SHEATHING SHALL BE PER ARCH, UNO.
- GRID LINES ARE TO FACE OF STUD AND CENTERLINE OF COLUMN. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.

#### 2. ROOF

- ROOF SHEATHING SHALL BE 19/32" APA RATED SHEATHING (32/16), EXPOSURE 1. WHERE BLOCKED DIAPHRAGM IS NOTED ON PLAN, USE 2x4 FLAT BLOCKING AND 'Z' CLIPS AT UNSUPPORTED PANEL EDGES.

NAIL SHEATHING AS FOLLOWS:

ROOF BOUNDARY (BN)	10d @ 6"
PANEL EDGES (EN)	10d @ 6"
OTHER SUPPORTS, FIELD NAILING	10d @ 12"
BLOCKING, INTERIOR RIM JOISTS & STRUTS	10d @ 6"

NAILS SHALL BE FLUSH WITH THE FACE OF SHEATHING.

- TYPICAL RIM JOISTS SHALL BE MINIMUM 1 1/2" LSL, UNO. REFER TO SHEAR WALL SCHEDULE FOR ADDITIONAL REQUIREMENTS AT RIMS.

- TYPICAL INTERIOR HEADER SHALL BE 4x10 DF NO.2 UNO. RIM IS HEADER AT EXTERIOR WALLS. DO NOT SPLICERIM OVER OPENINGS.

#### LEGEND

- STRUCTURAL WALL BELOW WITH HEADER (CONT WALL PLATES)
- STRUCTURAL WALL BELOW WITH FLUSH BEAM (BREAK WALL PLATES)
- FLOOR JOIST & EXTENT. SEE NOTE 3.
- BEAM PER PLAN OR HEADER PER NOTE
- JOIST HANGER
- INDICATES OVERFRAMING



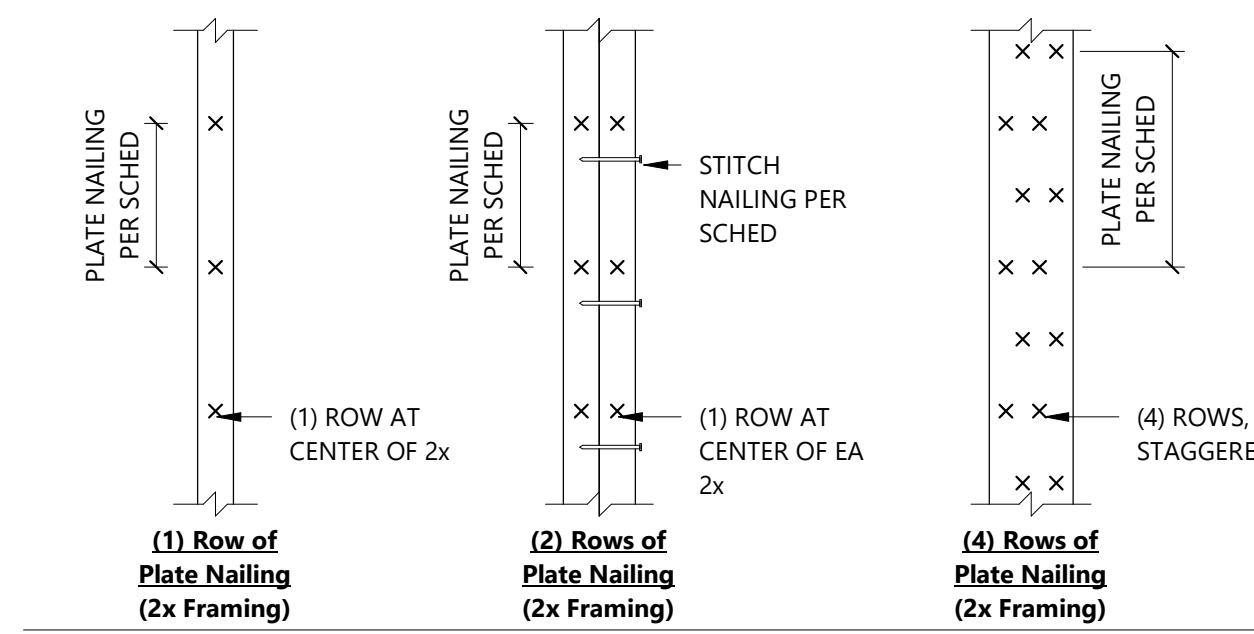
Engineer's Stamp



Project Title

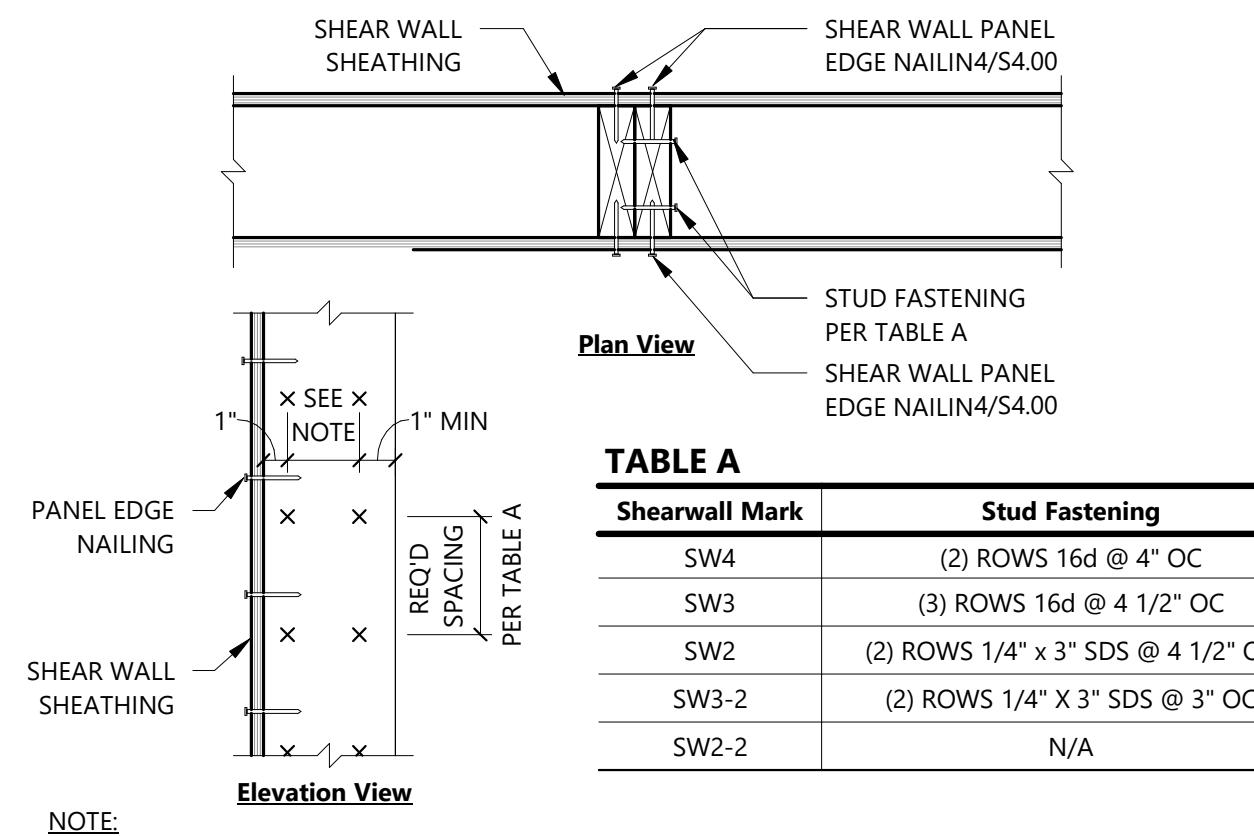
## Aguilar Addition

10341 NE 141st Place  
Kirkland, WA 98034



### 1 Typical Shear Wall Schedule - Plate Nailing Details

Scale: 1 1/2" = 1'-0"



### 2 Alternative Built-up 2X Option at Abutting Panel Edge

Scale: 1 1/2" = 1'-0"

NOTE:  
1. 3" FOR SDS SCREWS, 1 1/2" FOR 16d NAILS

Mark	Sheathing (15/32" Plywood)	Nailing		Framing		Shear Transfer				Capacity	
		(EN)...	Field	Min Stud & Blkg ...	Sill Plate	Top...	(A)...	(B)...	(C)...	(D)...	Seismic
SW6	(1) SIDE	10d @ 6"	10d @ 12"	2x	2x	5/8"Ø @ 3'-5"	A35 @ 26" or LPT4 @ 24"	16d @ 6" or 1/4x6" SDS SCREWS @ 14"	16d @ 5" OR 1/4x6" SDS SCREW @ 13"	310 PLF	435 PLF
SW4	(1) SIDE	10d @ 4"	10d @ 12"	3x	2x	5/8"Ø @ 2'-3"	A35 @ 18" or LPT4 @ 16"	(2) ROWS 16d @ 7" or 1/4x6" SDS SCREWS @ 9"	16d @ 3" OR 1/4x6" SDS SCREW @ 8"	460 PLF	645 PLF
SW3	(1) SIDE	10d @ 3"	10d @ 12"	3x	2x	5/8"Ø @ 21"	A35 @ 13" or LPT4 @ 12"	(2) ROWS 16d @ 6" or 1/4x6" SDS SCREWS @ 7"	(2) ROWS 16d @ 5" OR 1/4x6" SDS...	600 PLF	840 PLF
SW2	(1) SIDE	10d @ 2"	10d @ 12"	3x	2x	5/8"Ø @ 16"	A35 @ 10" or LPT4 @ 9"	(3) ROWS 16d @ 6" or (2) ROWS 1/4x6" SDS...	1/4x6" SDS SCREW @ 5"	770 PLF	1078 PLF
SW3-2	(2) SIDES	10d @ 3"	10d @ 12"	3x	3x	5/8"Ø @ 15"	A35 + LPT4 @ 13"	(4) ROWS 16d @ 6" or (2) ROWS 1/4x6" SDS...	1/4x6" SDS SCREW @ 3"	1200 PLF	1680 PLF
SW2-2	(2) SIDES	10d @ 2"	10d @ 12"	3x	3x	5/8"Ø @ 12"	A35 + LPT4 @ 10"	(3) ROWS 1/4x6" SDS SCREWS @ 8"	1/4x6" SDS SCREW @ 2"	1540 PLF	2155 PLF

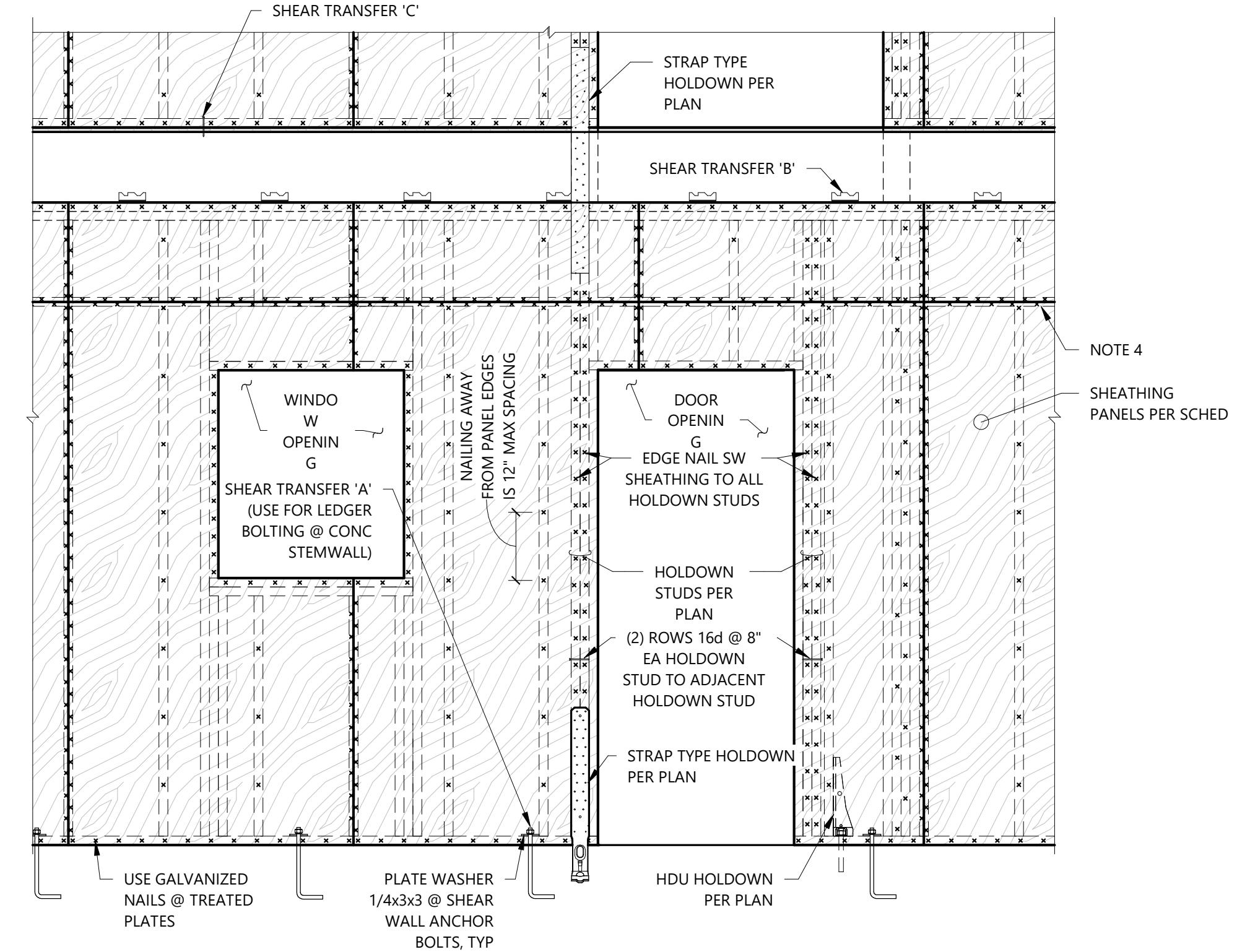
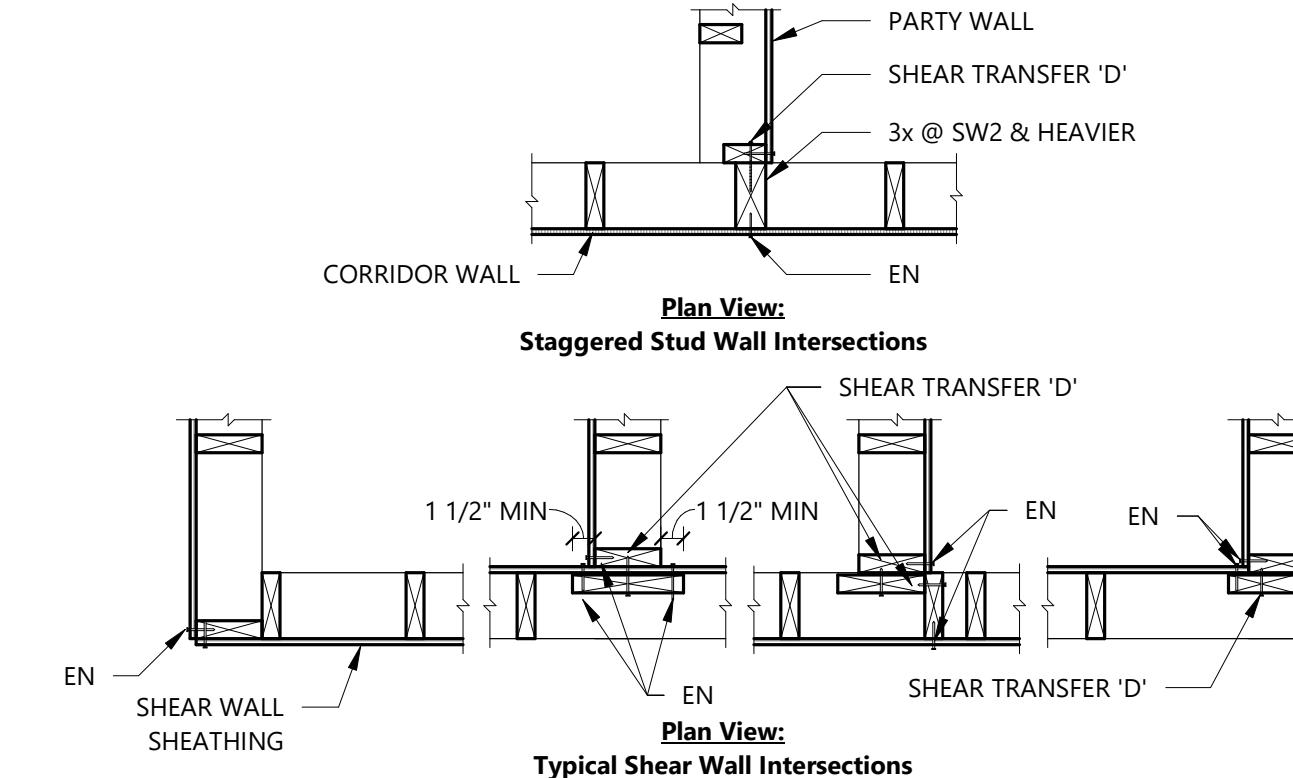
#### 2 SHEAR WALL SCHEDULE NOTES:

1. IN ADDITION TO FRAMING REQUIREMENTS OF 5/4.00, PROVIDE FRAMING AT SHEAR WALLS AS INDICATED.
2. SEE SCHEDULE FOR SHEATHING AND NAILING REQUIREMENTS. LUMBER GRADE AS INDICATED OR BETTER.
3. ALL FRAMING MEMBERS RECEIVING EDGE NAILING FROM ABUTTING PANEL EDGES SHALL NOT BE LESS THAN SIZES INDICATED, IN LIEU OF 3x STUDS, BUILT-UP STUDS SHOWN IN 2/4.00 MAY BE SUBSTITUTED.
4. BLOCK ALL PANEL EDGES.
5. NAIL SIZES PER NAIL SIZE TABLE. DRIVE ALL NAILS FLUSH W/ FACE OF SHEATHING. TOLERANCE +1/16" TO -0.
6. STAGGER NAILING WHERE NECESSARY TO PREVENT SPLITTING OF LUMBER.
7. PLATES ON CONCRETE SHALL BE TREATED. SEE GENERAL NOTES.
8. CONNECT SHEATHING & STUDS AT SHEAR WALL INTERSECTIONS AS INDICATED.
9. WHERE ONLY ONE HOLDOWN IS SPECIFIED, LOCATE ON OPEN-SIDE OF HOLDOWN STUDS. SEE WALL ELEVATION.

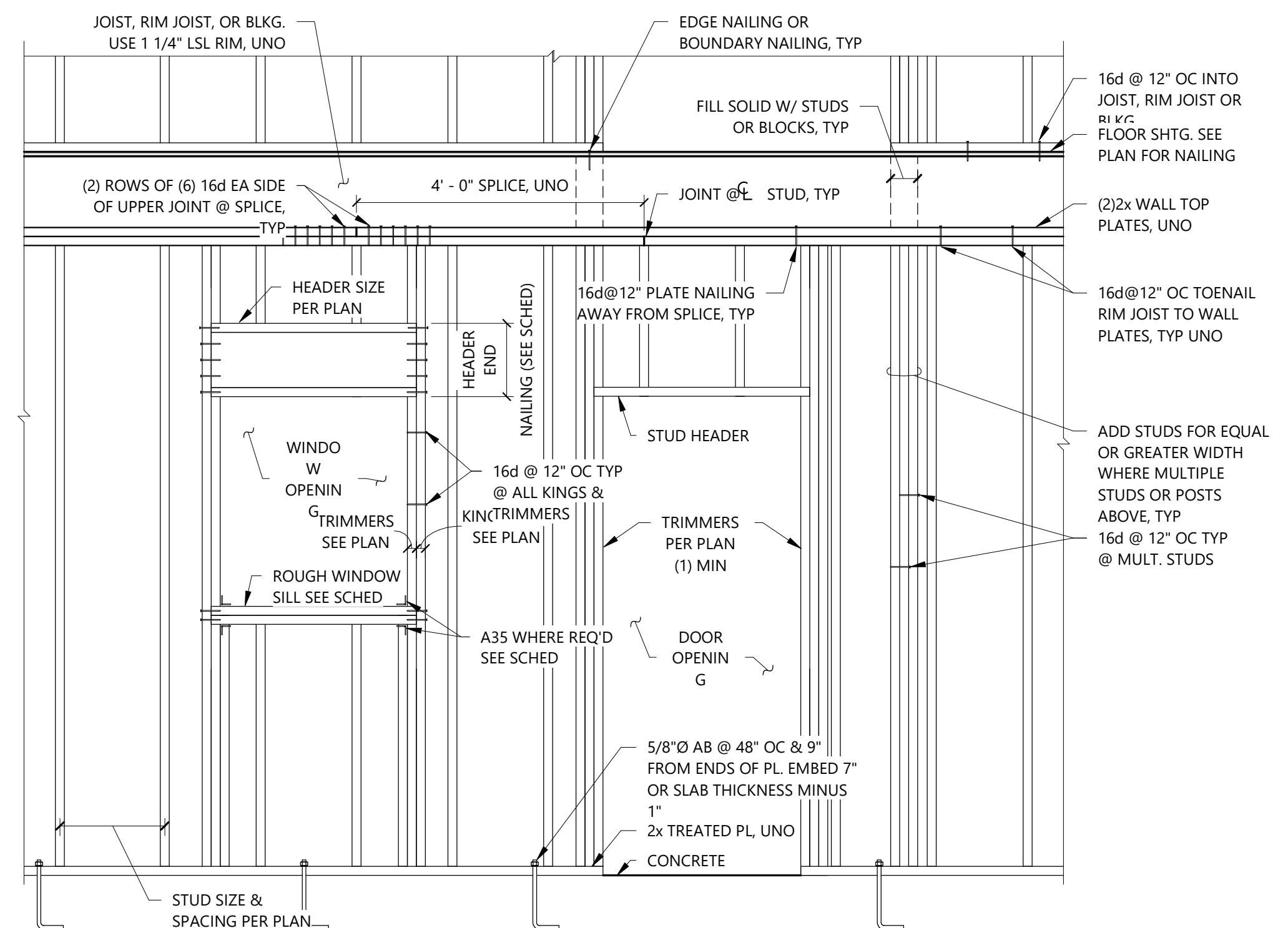
10. THE PLANS AND SECTIONS SHOWN HERE SCHEMATICALLY DEMONSTRATE THE TYPICAL CONNECTION DESIGNED BY THE ENGINEER OF RECORD. ALTERNATE CONNECTIONS MUST BE APPROVED IN WRITING BY THE ENGINEER OF RECORD.

#### 3 TYPICAL NAIL LENGTH TABLE

Nail Size	Nail Diameter	Typical Nail Length (UNO)
6d	0.113"Ø	2"
8d	0.131"Ø	2 1/2"
10d	0.148"Ø	3"
16d	0.162"Ø	3 1/2"



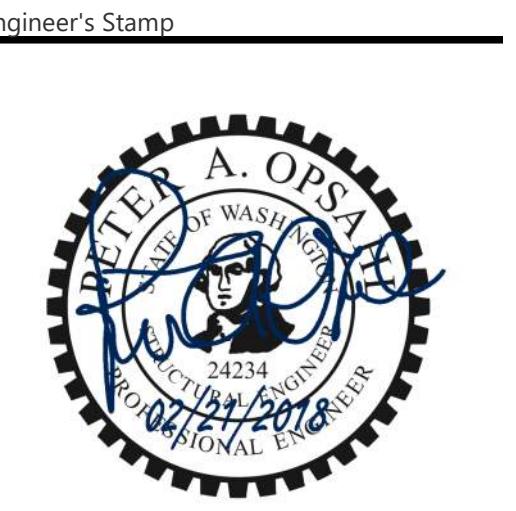
### 4 Shear Wall Framing w/ Holdowns



### 5 Typical Wall Framing

Project Information	Project No.	17-148-01
	Checked By	PO
Issue	Permit Set	02/21/2018
	Department Approval	
Sheet Title	Wood Details	
Sheet Number		

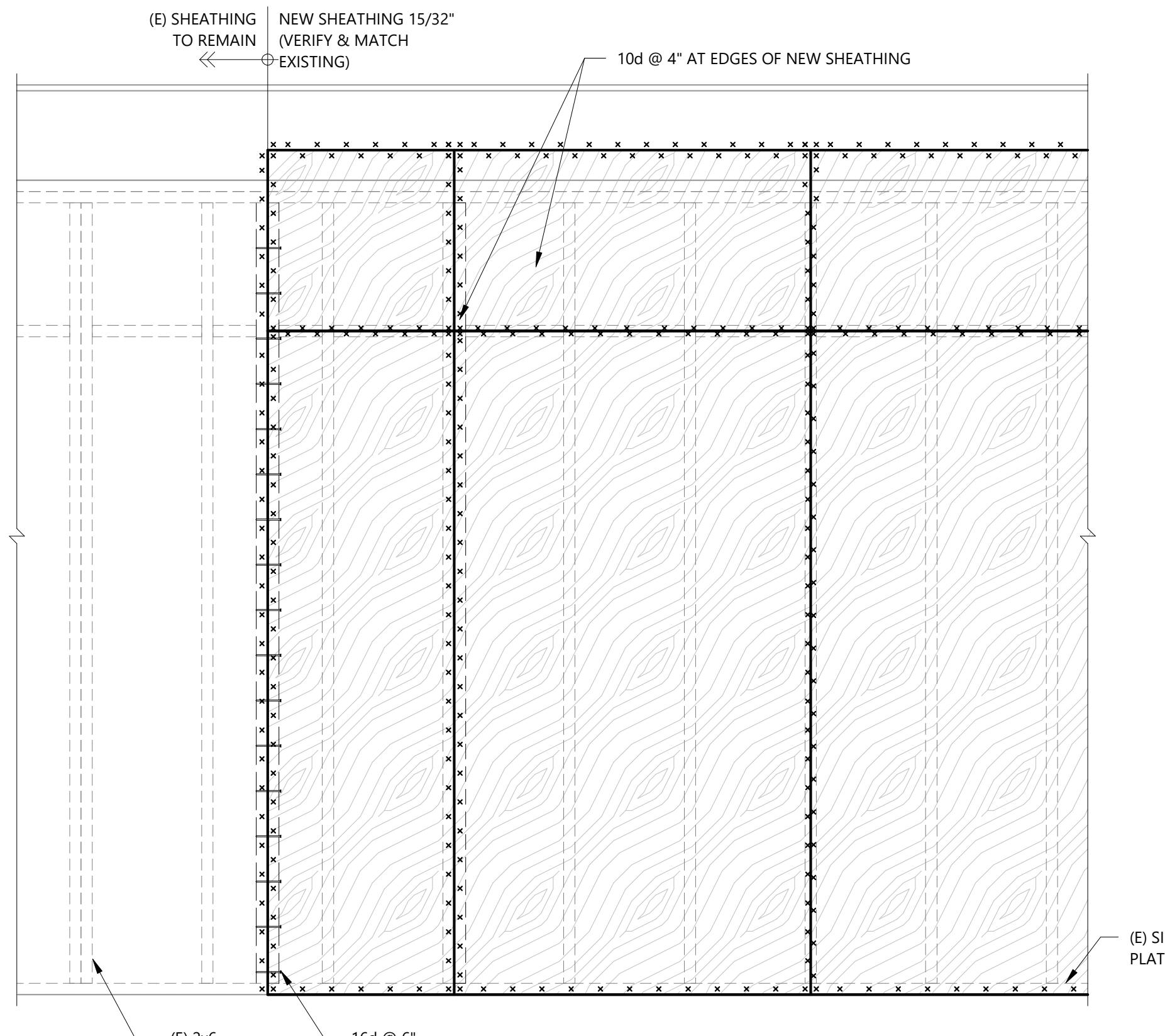
S4.00



## Aguilar Addition

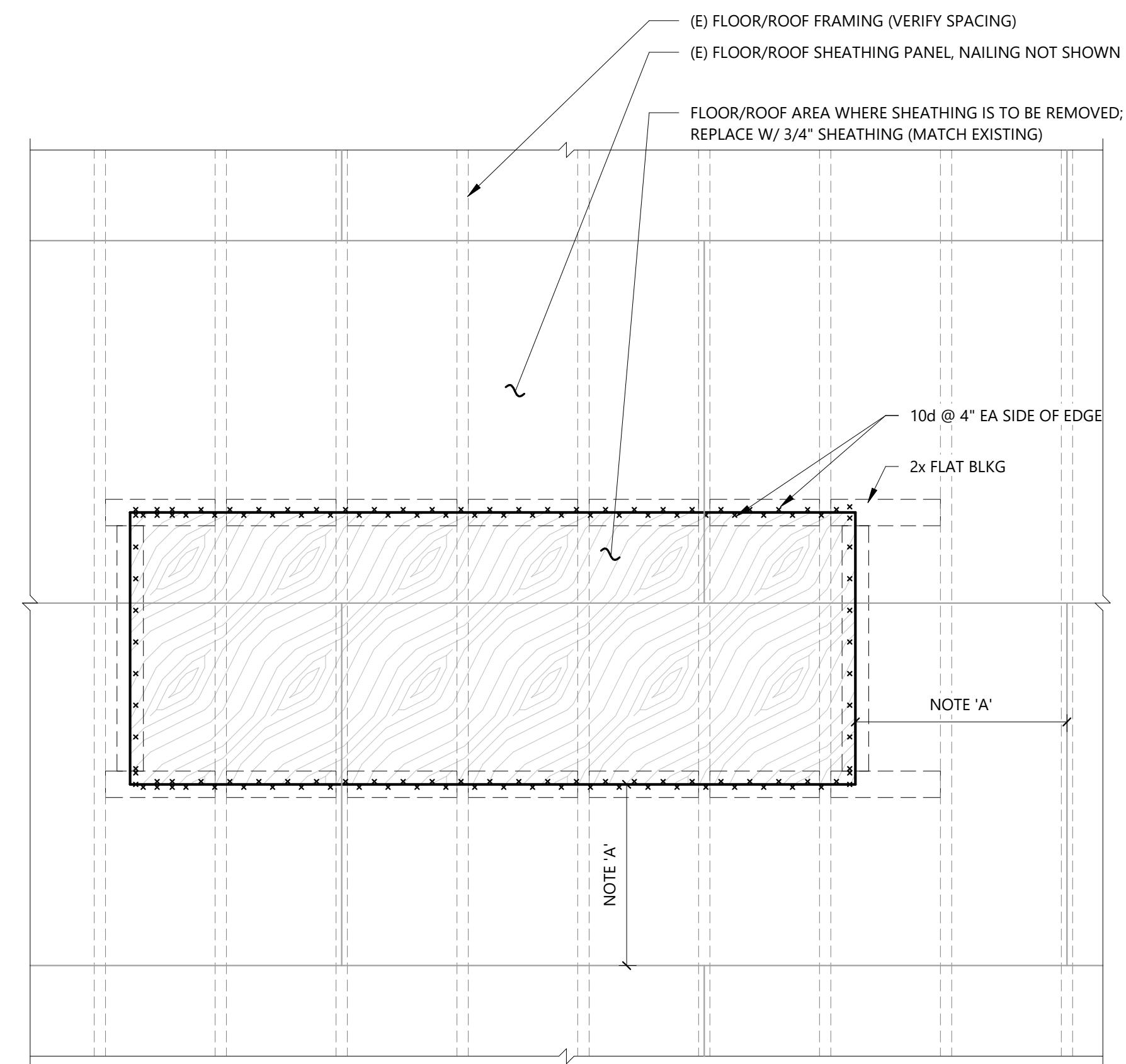
10341 NE 141st Place  
Kirkland, WA 98034

Project Information	
Project No.	17-148-01
Checked By	PO
Issue	
PERMIT SET 02/21/2018	
Department Approval	
Sheet Title	
Wood Details	
Sheet Number	



1 New Sheathing @ (E) Wall

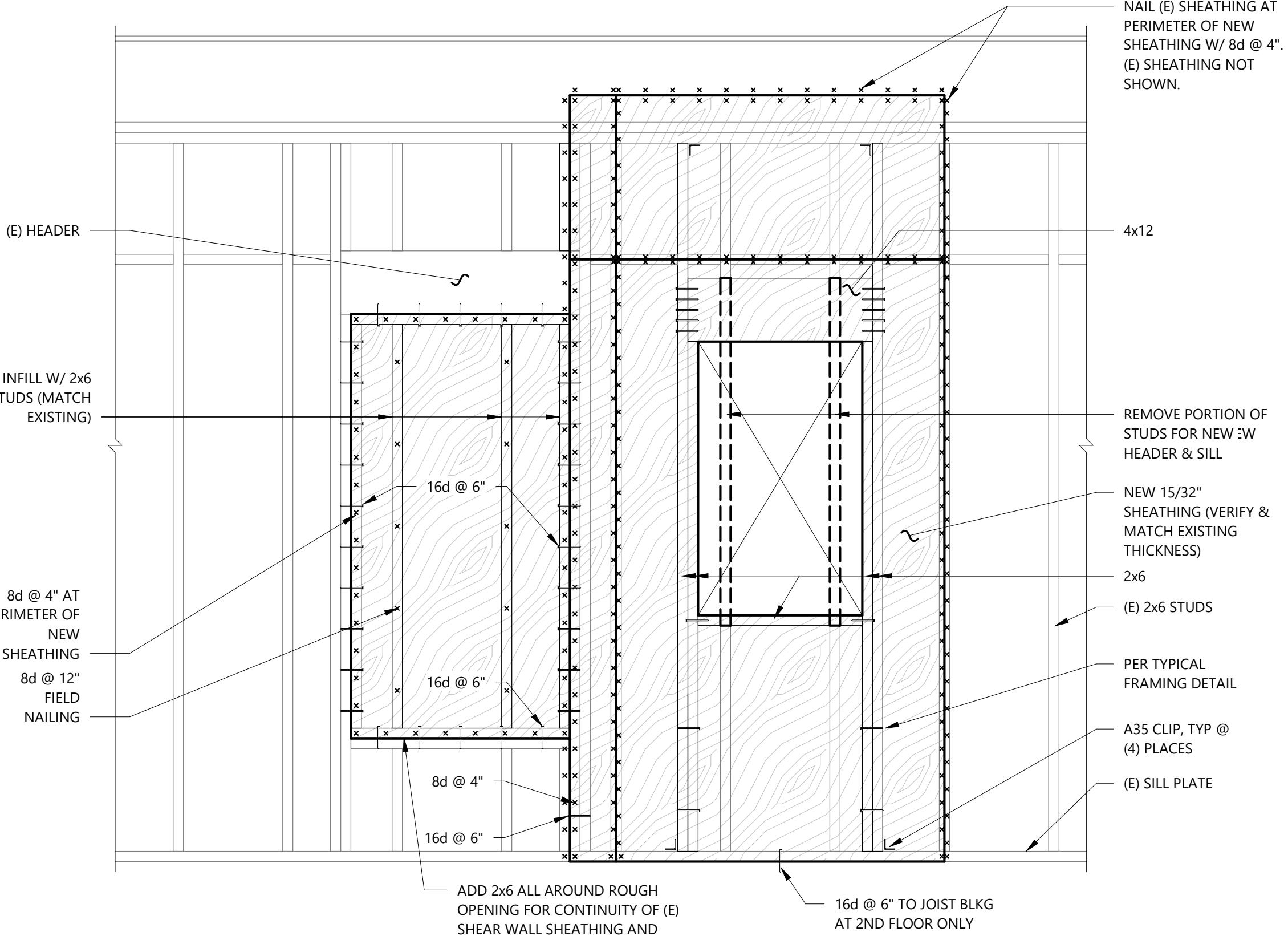
Scale: 3/4" = 1'-0"



NOTES:  
A. MINIMUM PANEL DIMENSION IS 24". WHERE REMOVED PORTION OF SHEATHING ENCROACHES INTO THIS MINIMUM DIMENSION, REMOVE PANEL BACK TO PANEL EDGE.

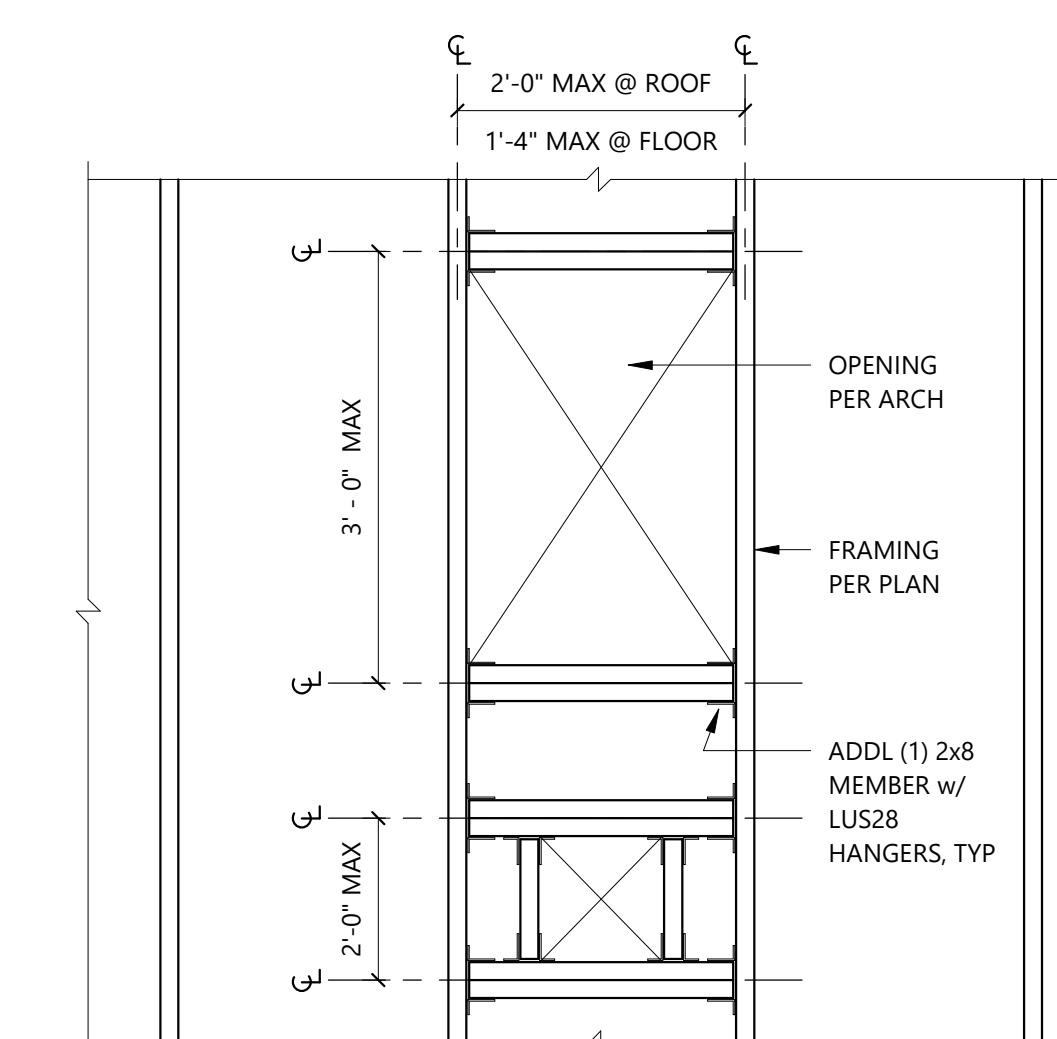
3 Plan @ Floor/Roof Sheathing

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



2 (E) Window Infill & New Window Framing @ (E) Framing

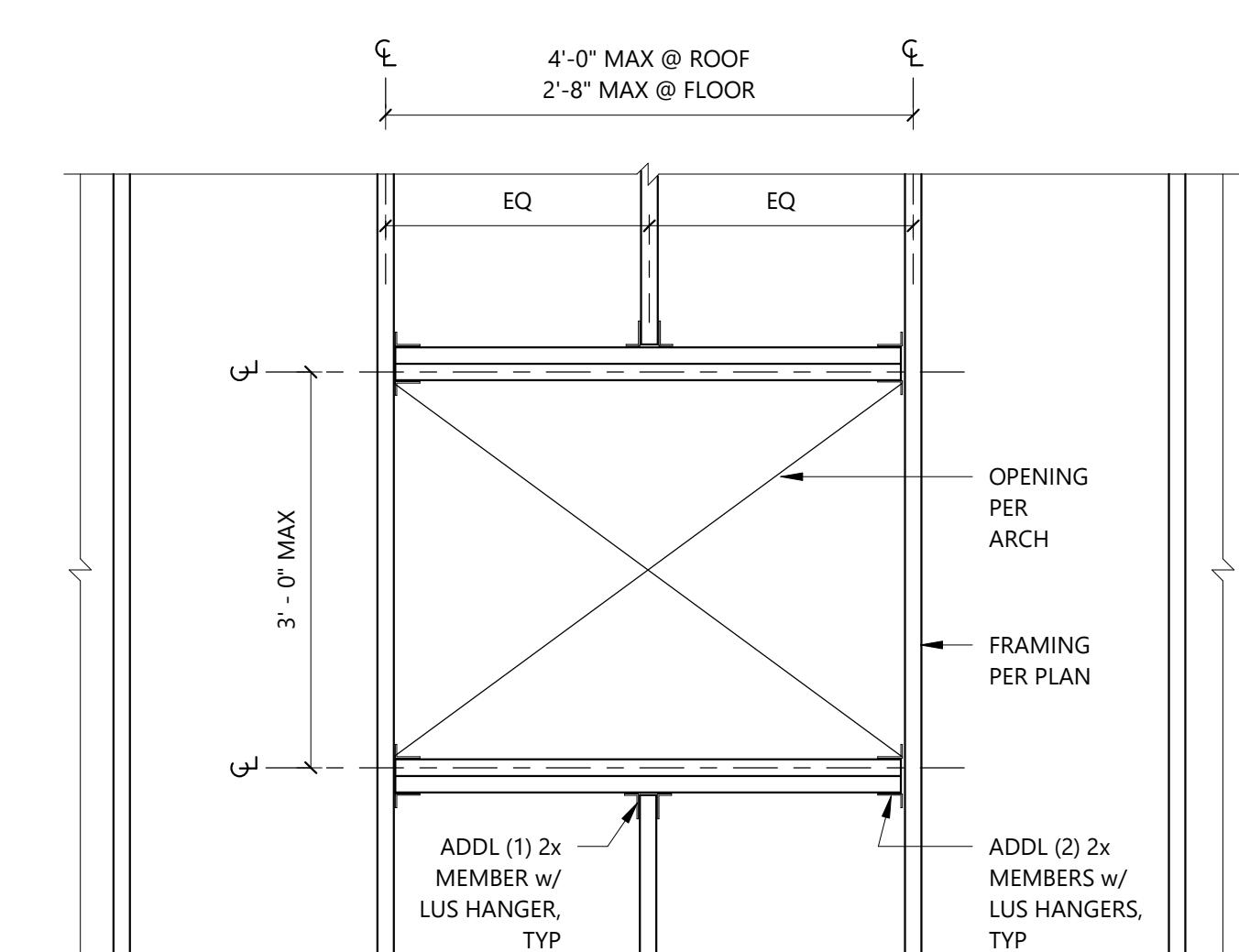
Scale: 3/4" = 1'-0"



NOTE:  
1. CONTR TO COORD SIZES AND LOCATIONS OF ALL MECH OPENINGS WITH MECH DRAWINGS.

4 Typical Rough Openings (2'-0" max)

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



NOTE:  
1. CONTR TO COORD SIZES & LOCATIONS OF ALL MECH OPENINGS W/ MECH DRAWINGS.

5 Typical Rough Openings (4'-0" max)

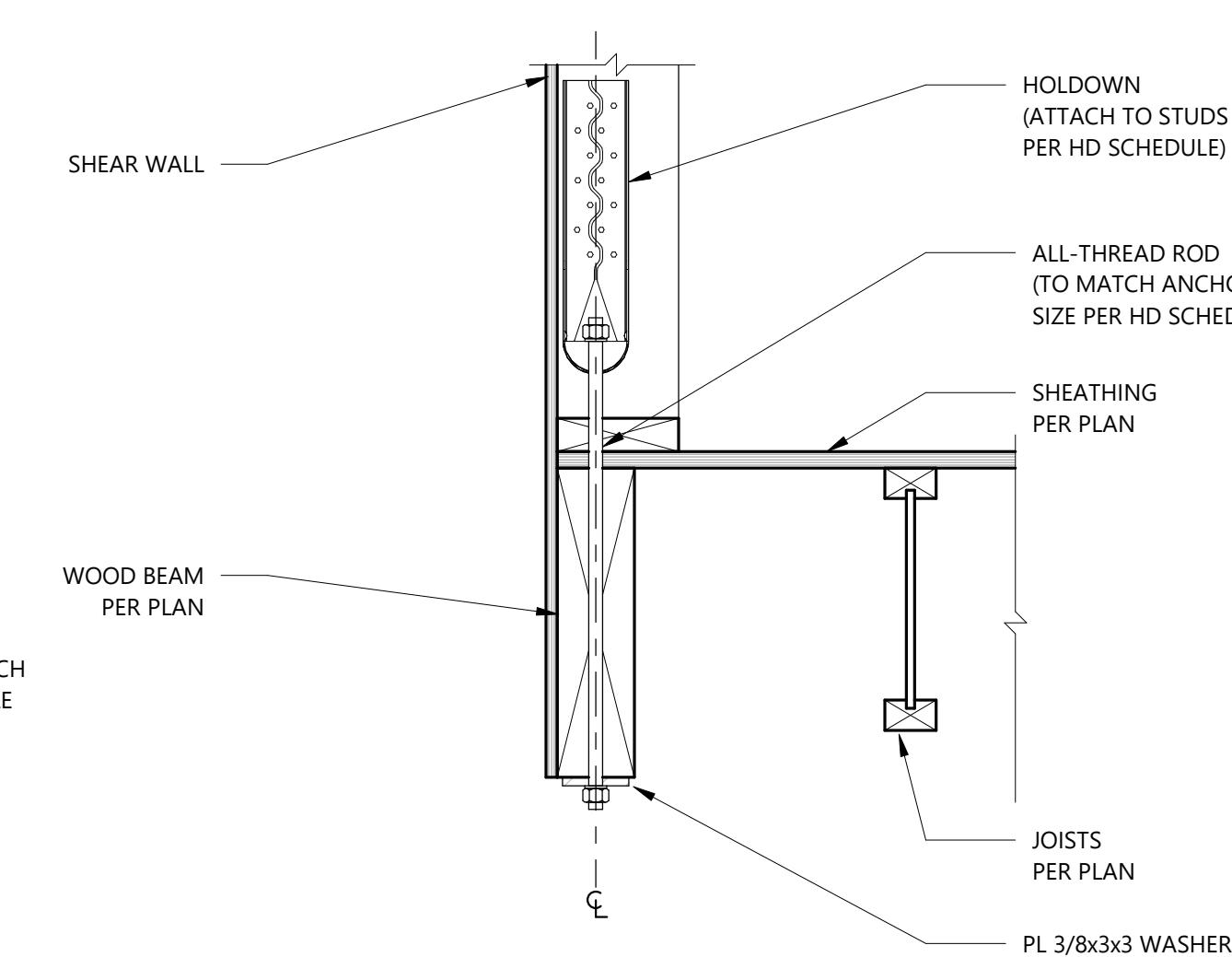
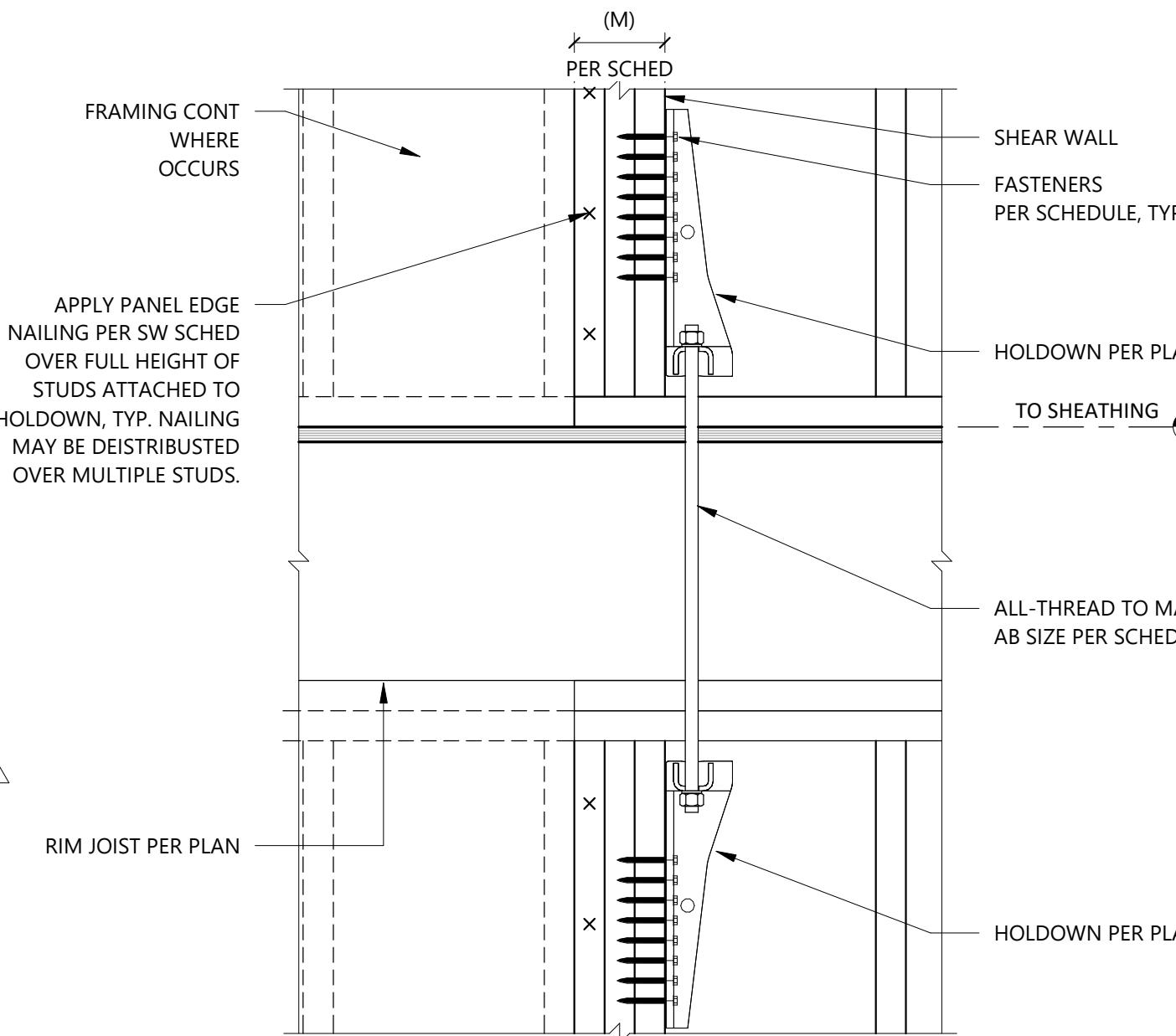
Scale: 3/4" = 1'-0"



Mark	Framing Attachment		Anchorage		Capacity		
	M	Fasteners (SDS 1/4 X 2 1/2)	D	Anchor Type	Embed	Seismic (Mid-Wall / Corner / End Wall)	Wind (Mid-Wall / Corner / End Wall)
HDU2	3"	6	4 1/4"	5/8"Ø	1'-6"		
HDU4	3"	10	4 1/4"	5/8"Ø	1'-6"		
HDU8	4 1/2"	20	4 1/4"	7/8"Ø	1'-6"		
HDU2-PI	3"	6	3"	5/8"Ø EPOXY	1'-0 1/2"	2,645 lb	2,645 lb
HDU4-PI	3"	10	3"	5/8"Ø EPOXY	1'-0 1/2"	3,926 lb	3,926 lb
HDU8-PI	4 1/2"	20	3"	7/8"Ø EPOXY	1'-5 1/2"	7,870 lb	7,870 lb

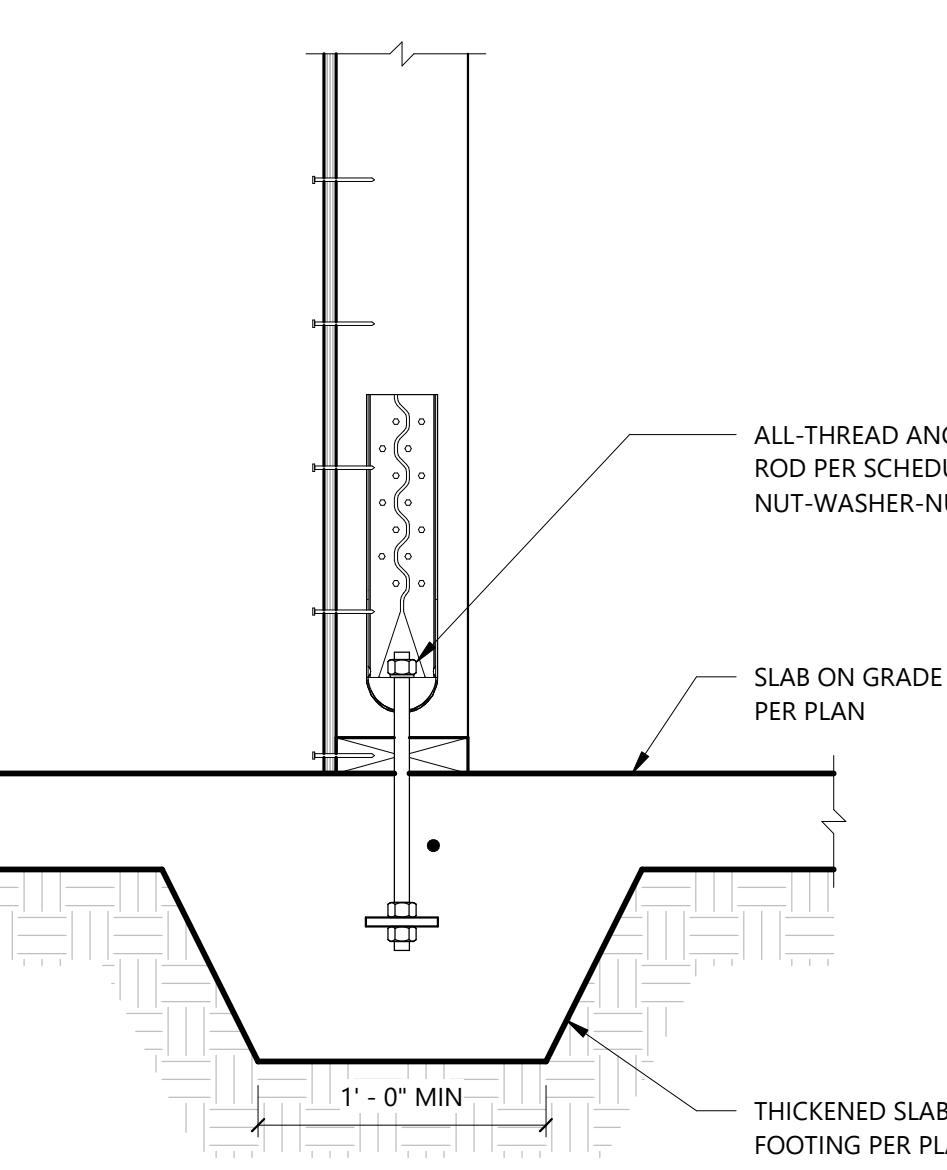
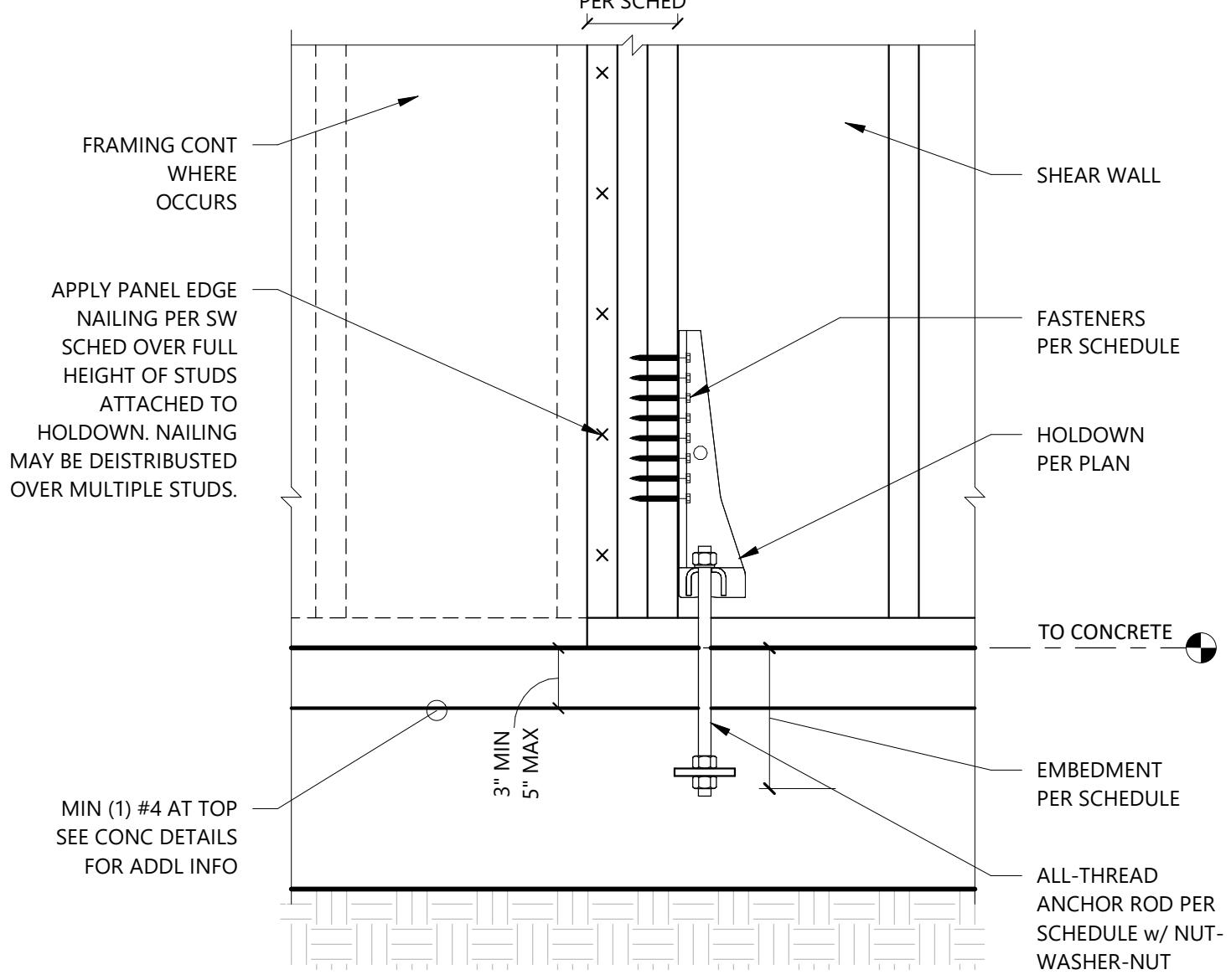
NOTES:

1. INSTALL ALL HOLDOWNS PER MANUFACTURER'S INSTRUCTIONS.
2. PLACEMENT OF ALL ANCHORS IS BASED ON CAST-IN-PLACE INSTALLATION UNO. POST-INSTALLED ANCHORS SHALL NOT BE INSTALLED WITHOUT PRIOR APPROVAL OF ENGINEER OF RECORD.
3. "M" INDICATES MINIMUM DEPTH OF WOOD FRAMING MEMBER ATTACHED TO HOLDOWN. ALL FRAMING MEMBERS SHALL BE DOUG-FIR, UNO.
4. PLACEMENT OF ALL POST-INSTALLED ANCHORS (HDU-PI) IS BASED ON SIMPSON SET-XP EPOXY.
5. "D" INDICATES MINIMUM DISTANCE FROM END OF CONCRETE WALL/FOOTING AT CORNER AND WALL END CONDITIONS. REFER TO ELEVATION AND SECTION FOR PLACEMENT DETAILS. UNLESS NOTED OTHERWISE: THE DISTANCE FROM ANY ANCHOR TO THE END OF CONCRETE WALL/FOOTING SHALL BE NO LESS THAN TWICE THE EMBEDMENT DEPTH NOTED IN THE SCHEDULE.



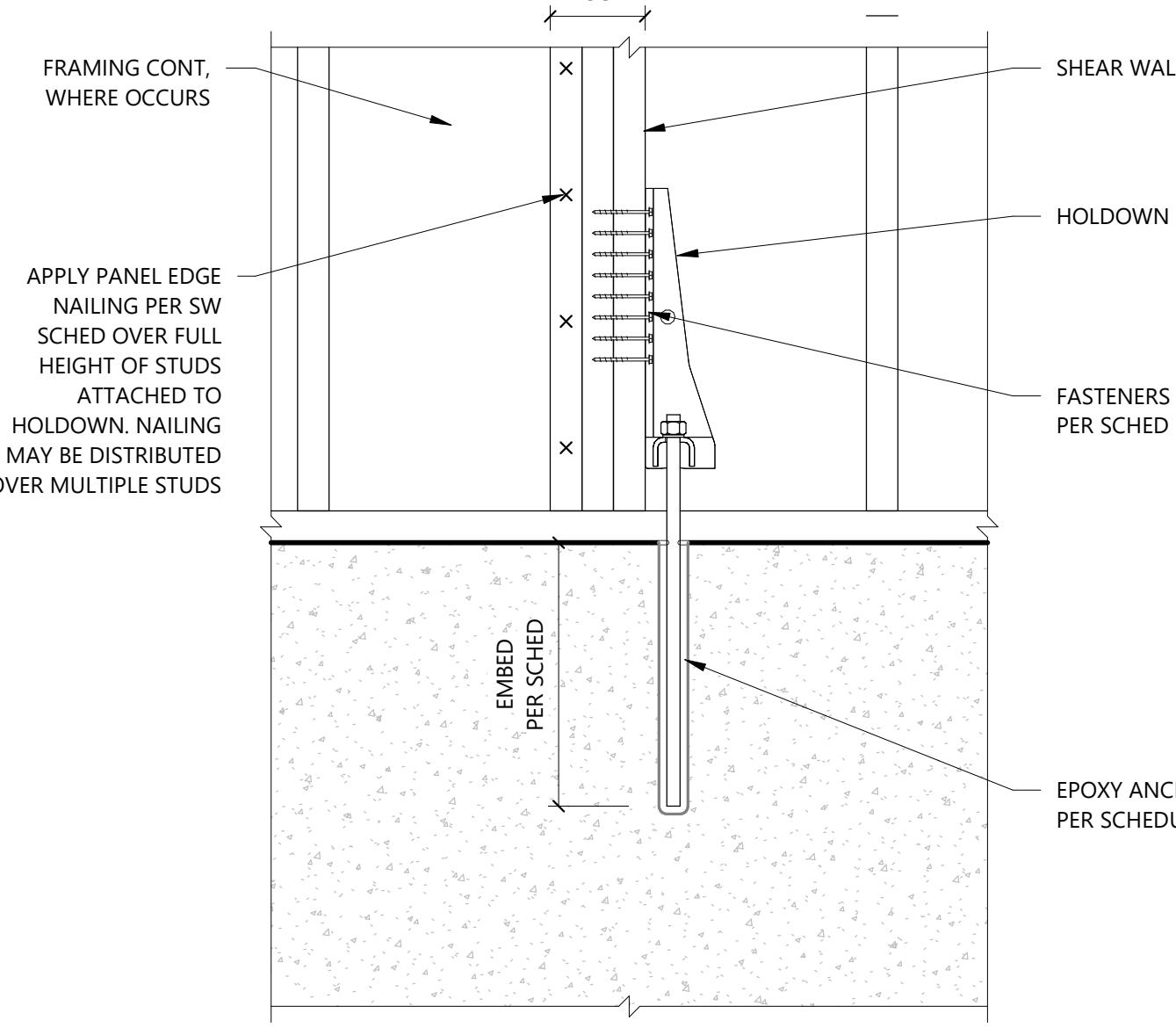
1 Typical Holdown Schedule

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



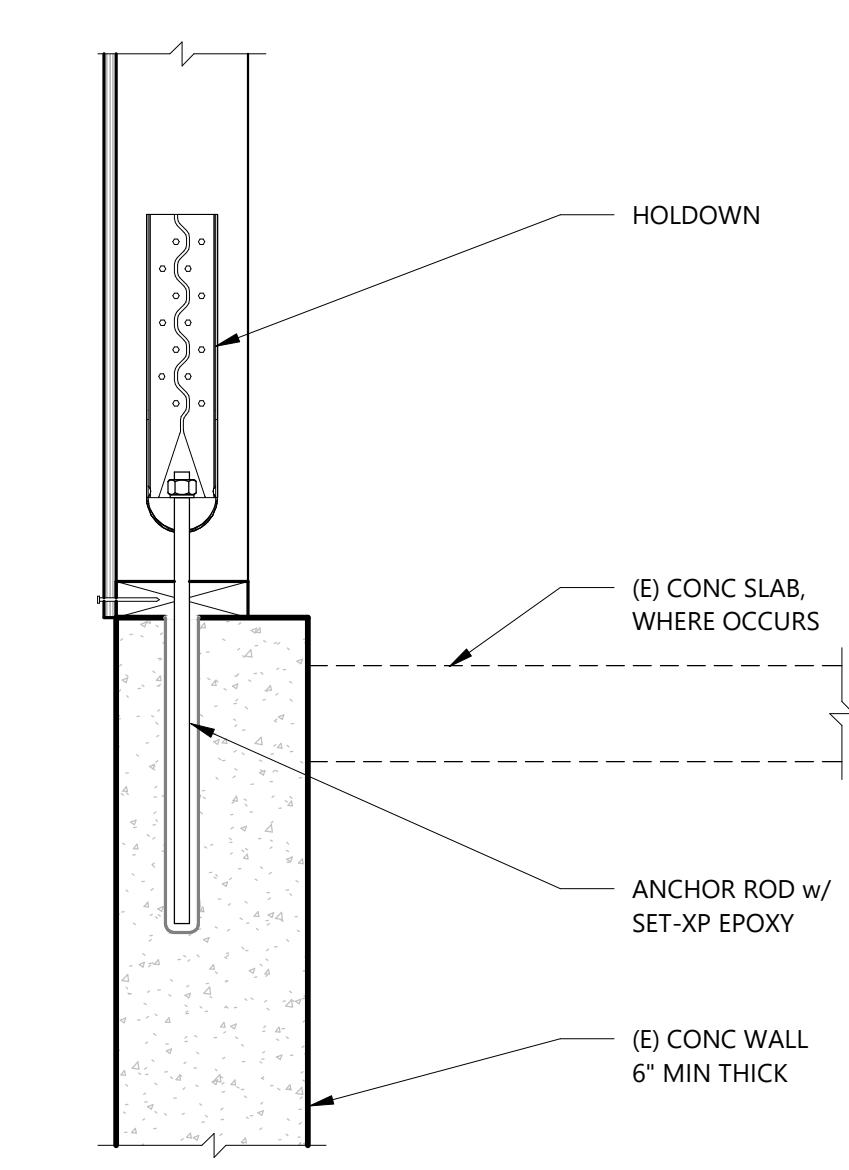
3 Typical Holdown at Wood Wall

Scale: 1 1/2" = 1'-0"



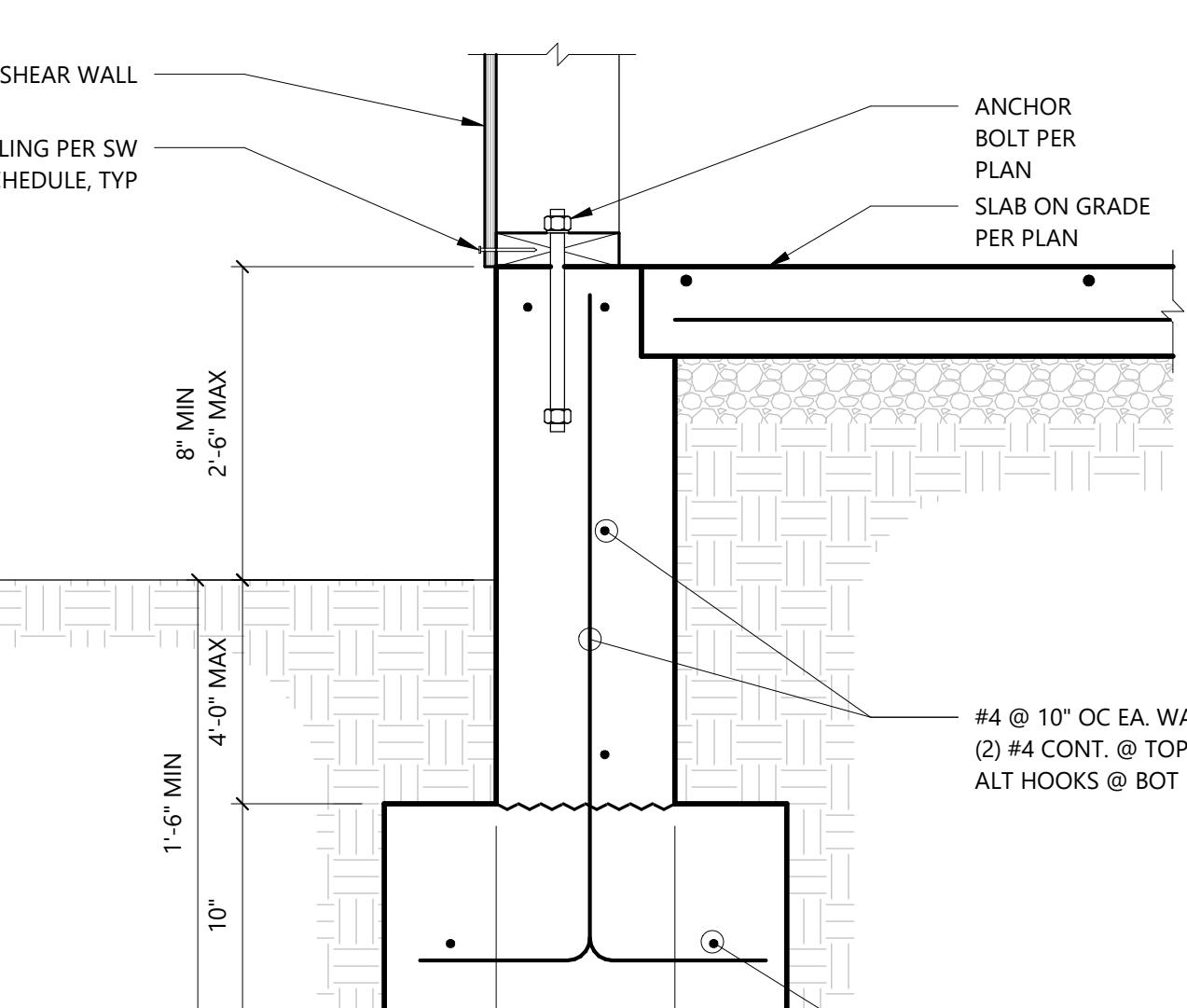
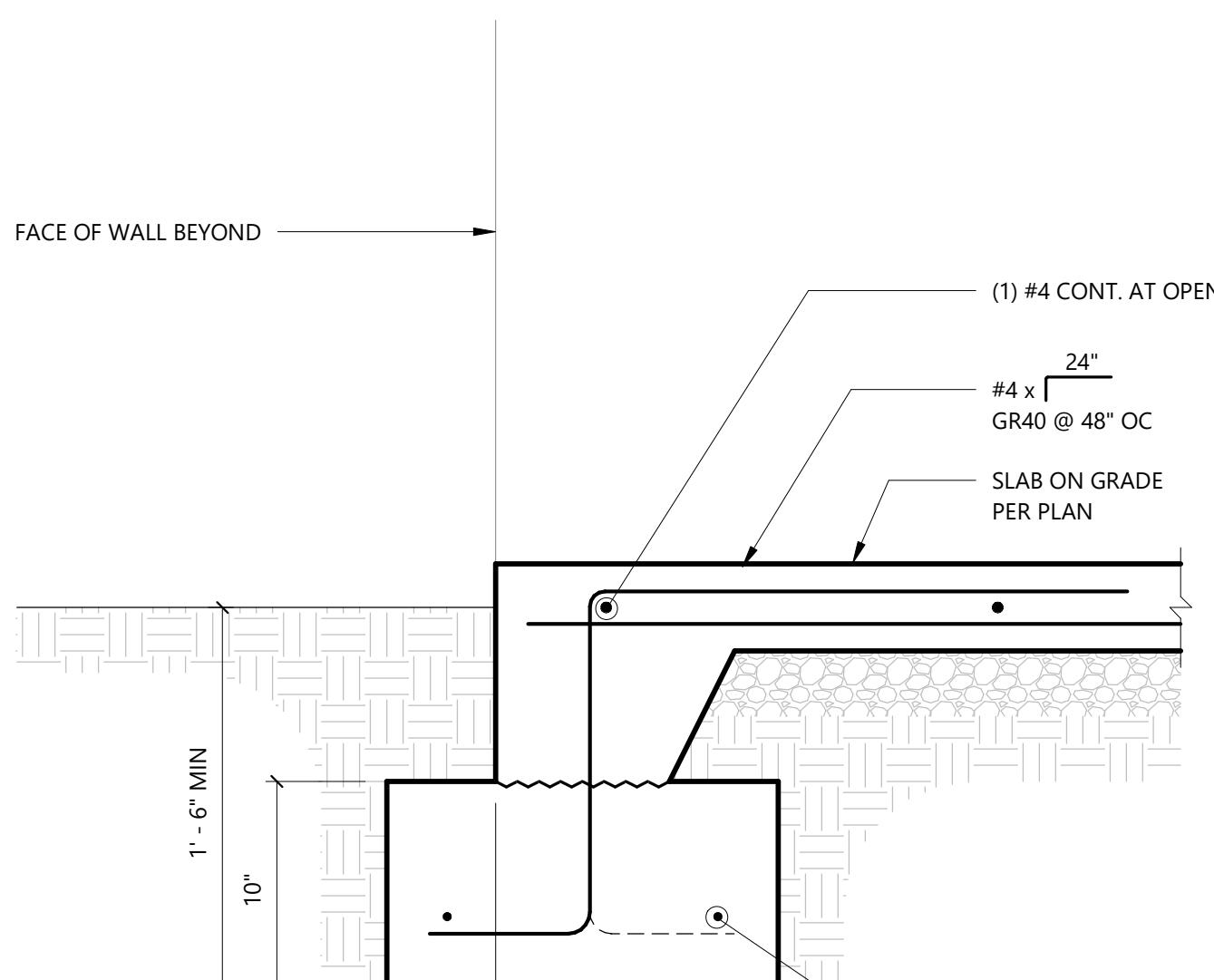
4 Typical Holdown to Wood Beam

Scale: 1 1/2" = 1'-0"



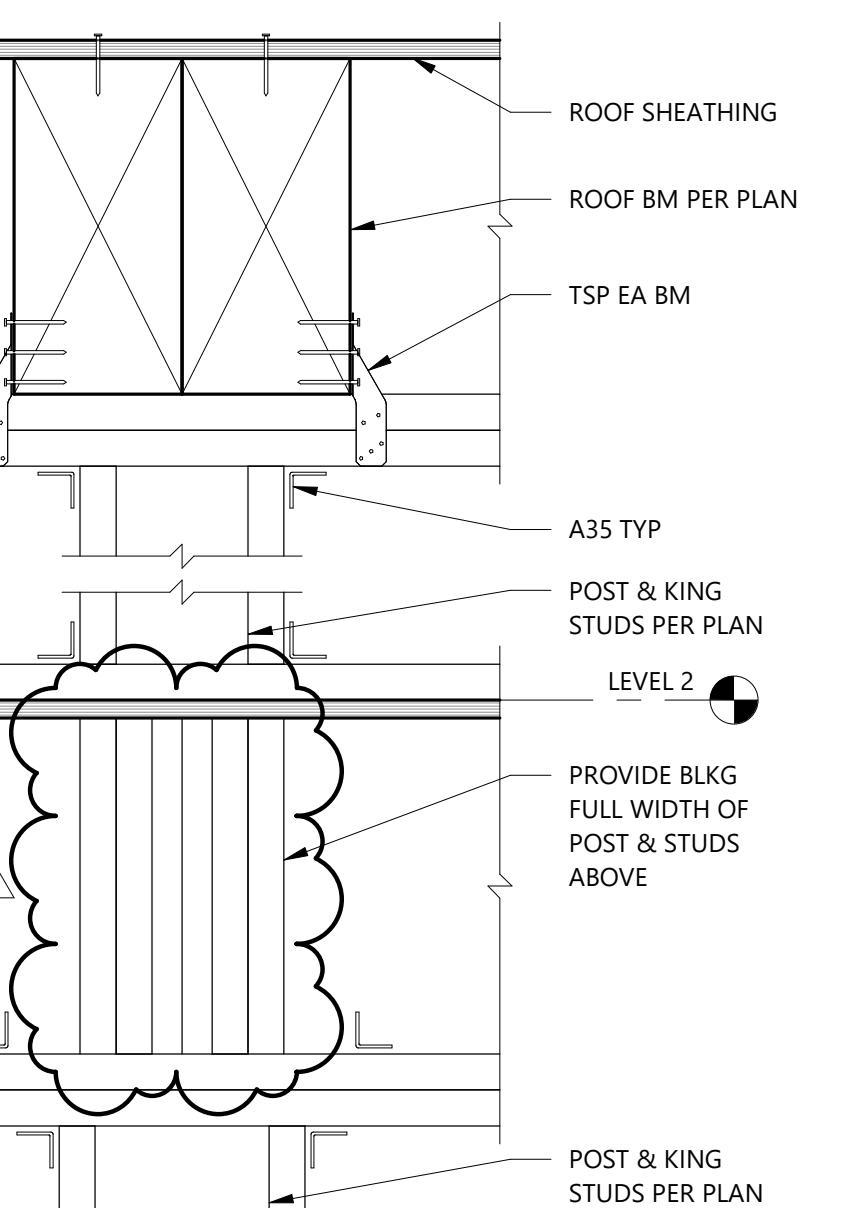
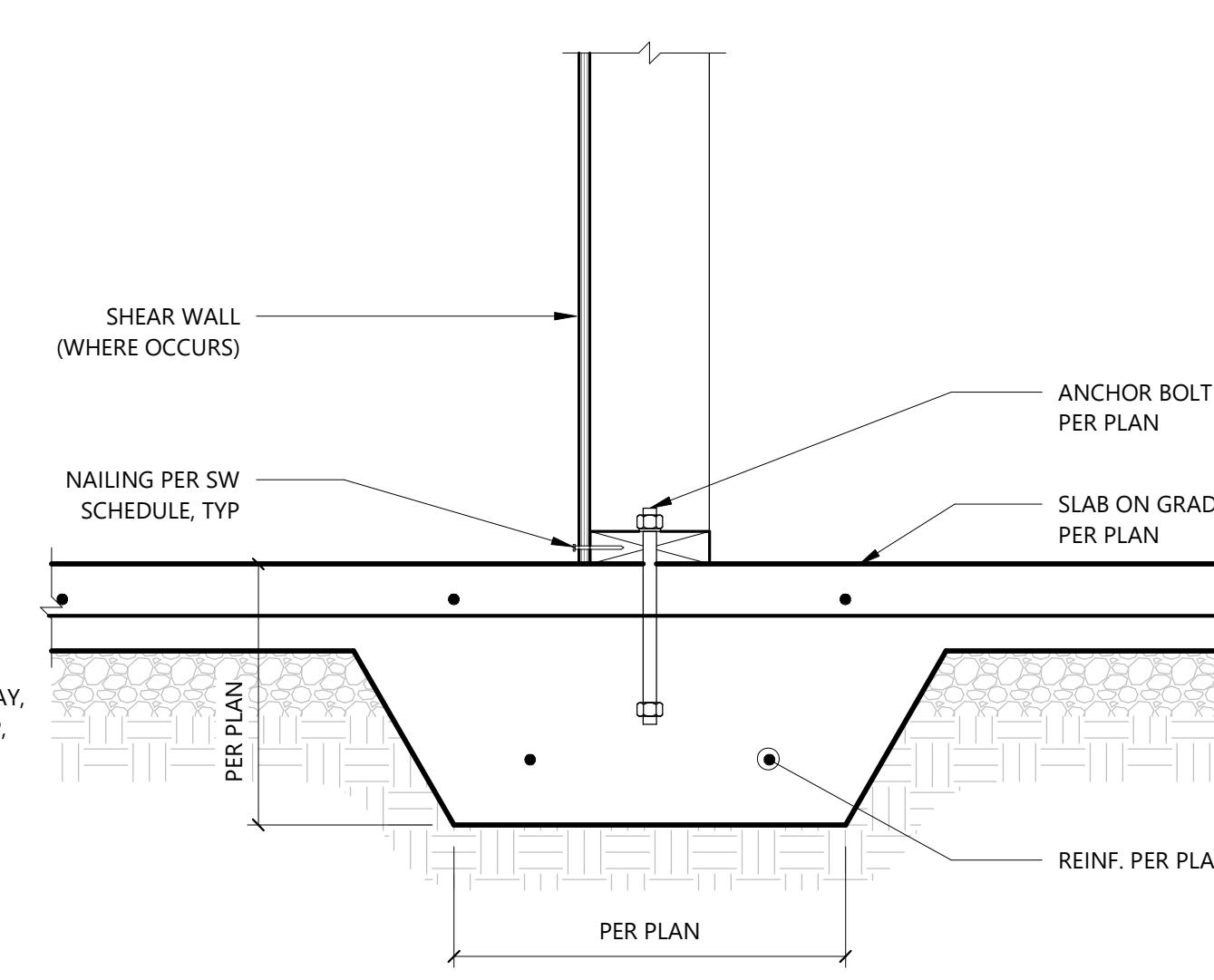
5 Typical Holdown - Anchor Bolt

Scale: 1 1/2" = 1'-0"



7 Typical Holdown - Post-Installed

Scale: 1 1/2" = 1'-0"

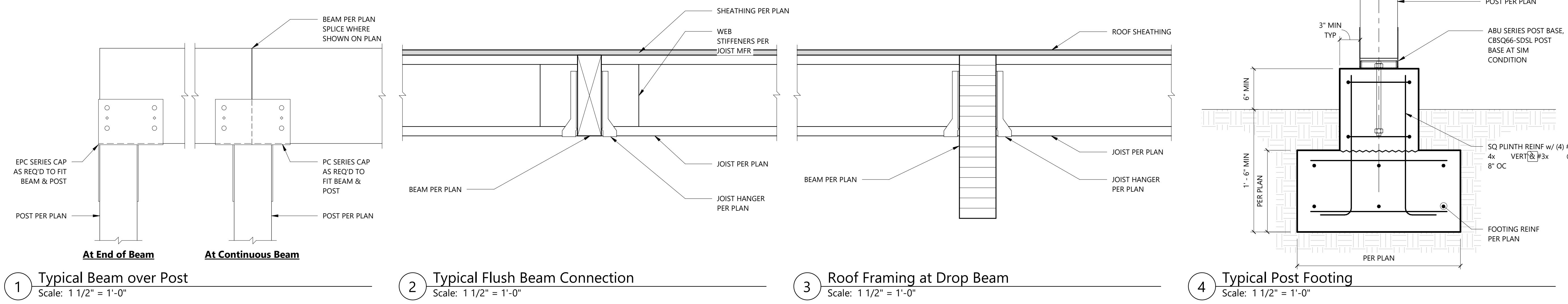


9 Typical Footing at Wall Opening

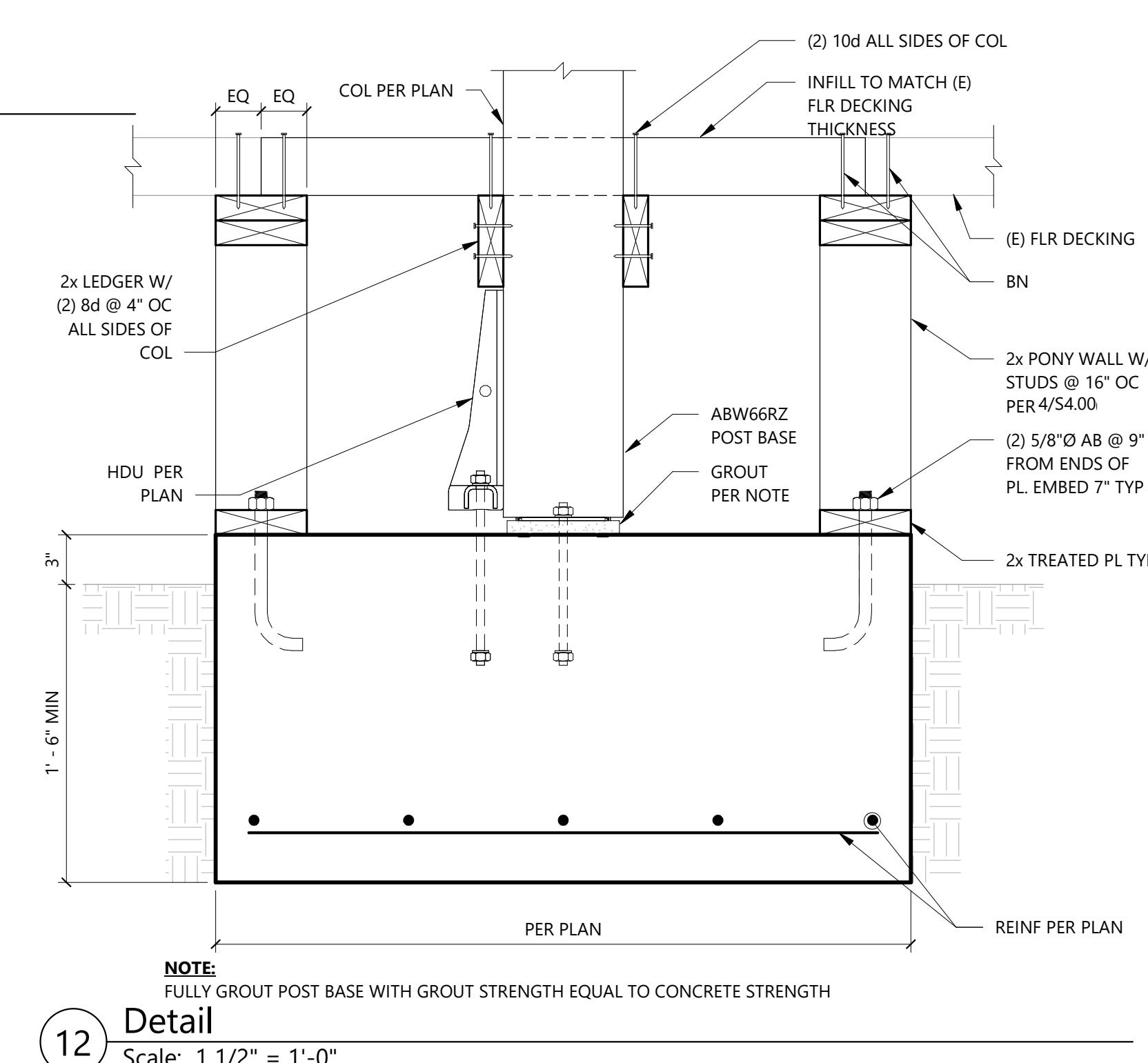
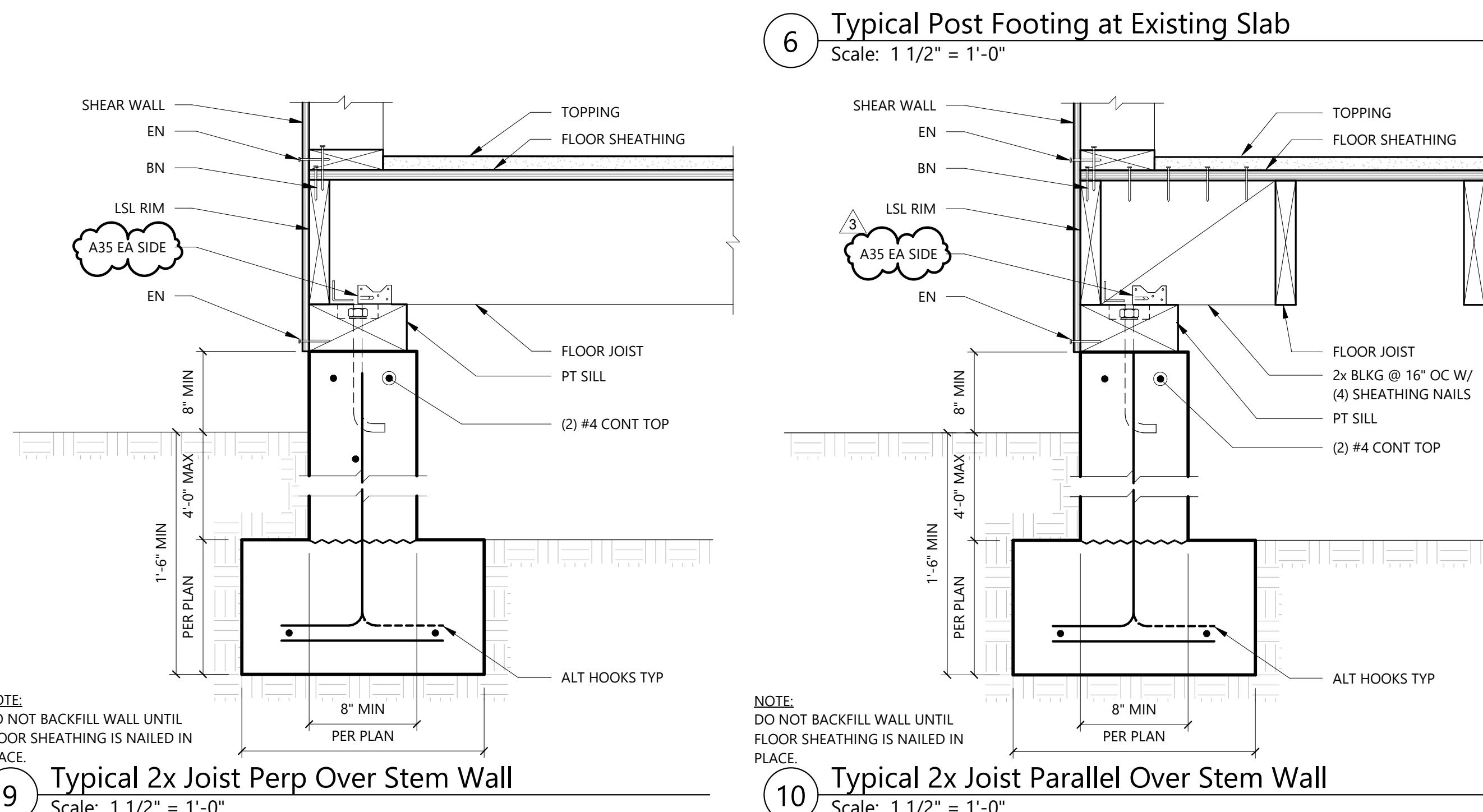
Scale: 1 1/2" = 1'-0"

10 Typical Stem Wall

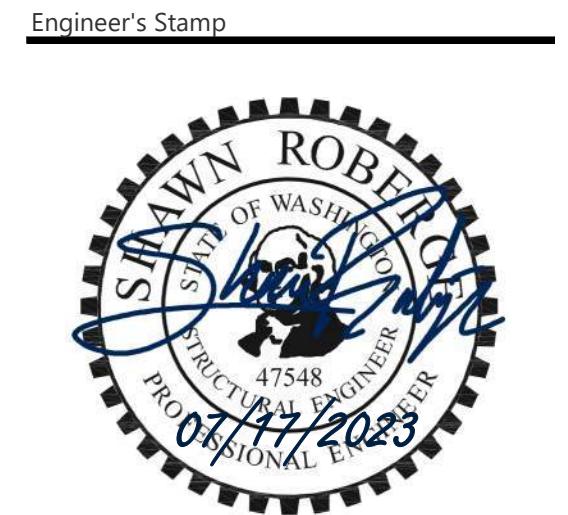
Scale: 1 1/2" = 1'-0"



# SUPERSEDED



# INSERT REVISED PAGES INTO APPROVED SET 08/31/2023



Project Title

## Aguilar Addition

10341 NE 141st Place  
Kirkland, WA 98034

### Project Information

Project No. 17-148-01

Checked By PO

### Issue

PERMIT SET 02/21/2018  
 ▲ PERMIT RESPONSE 07/17/2018  
 ▲ REVISION 3 03/04/2022  
 ▲ REVISION 4 07/11/2023

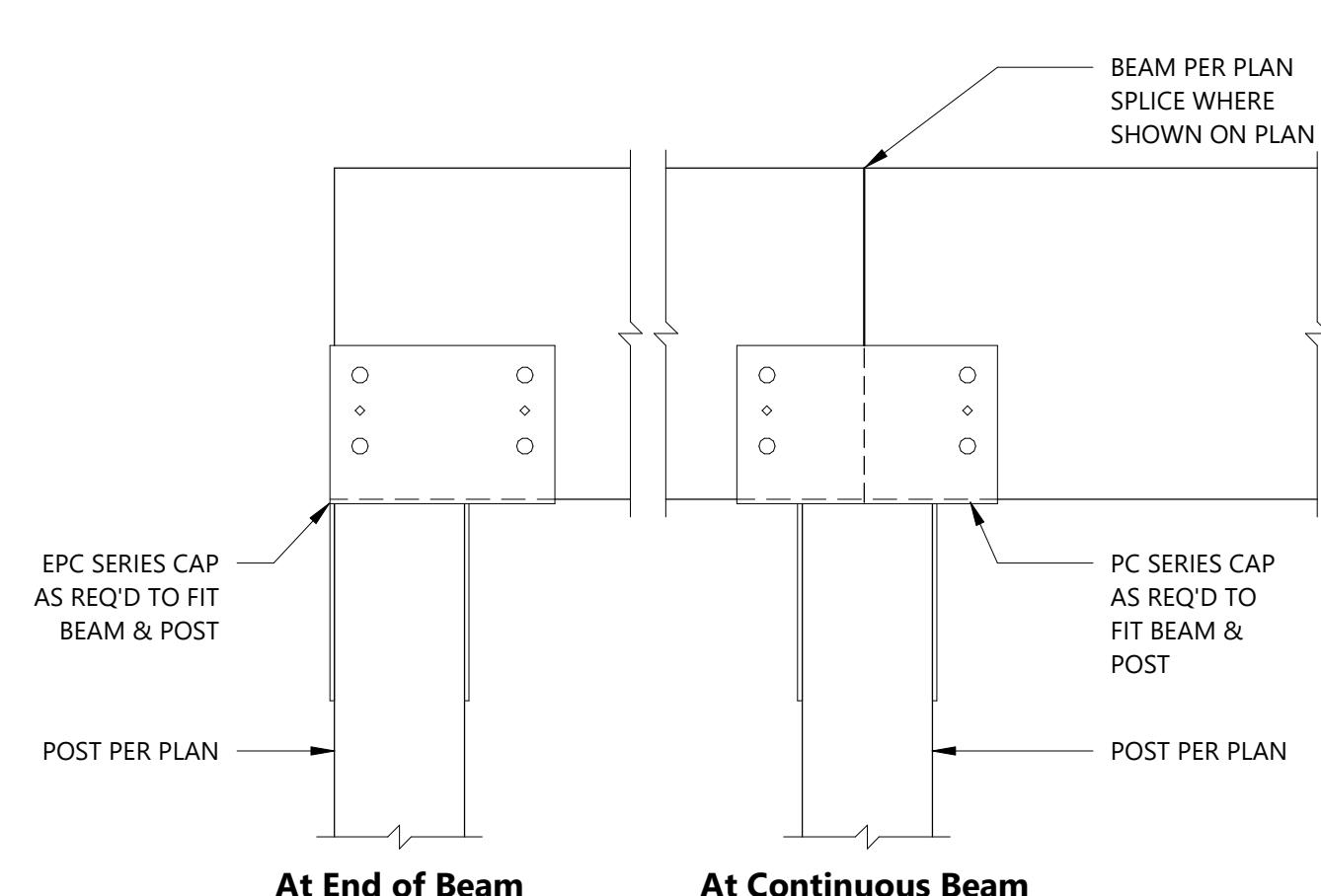
### Department Approval

### Sheet Title

Wood Details

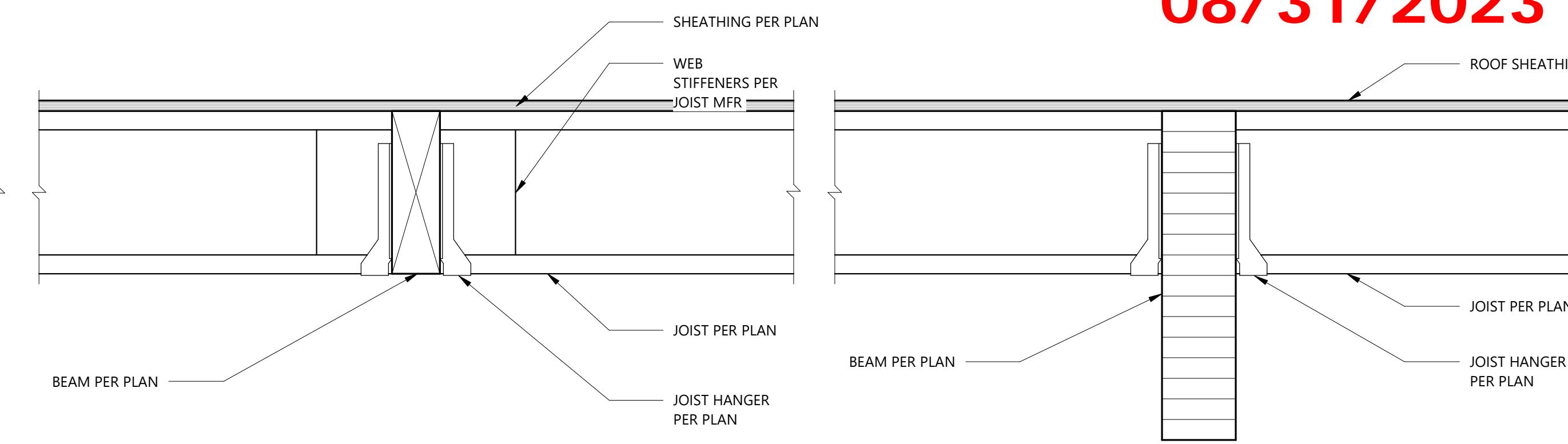
### Sheet Number

S4.04



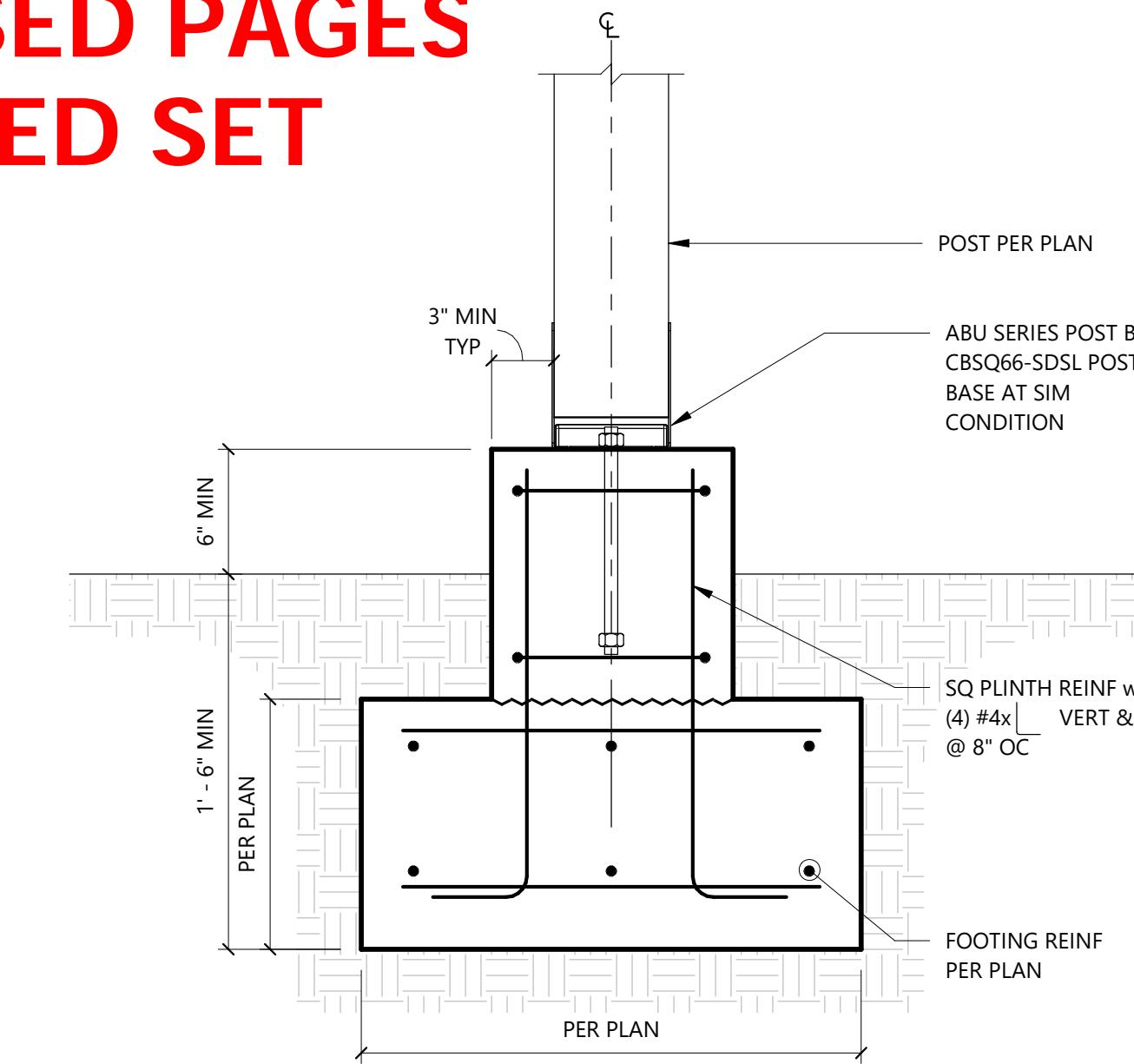
1 Typical Beam over Post

Scale: 1 1/2" = 1'-0"



2 Typical Flush Beam Connection

Scale: 1 1/2" = 1'-0"

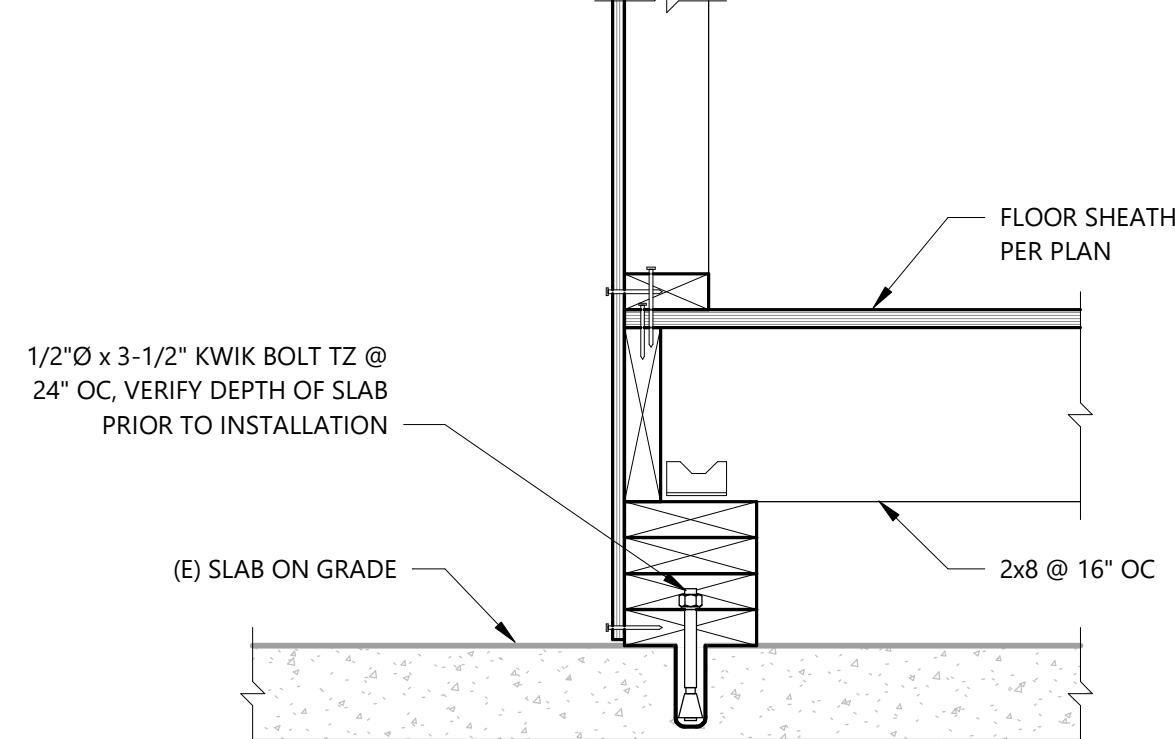


4 Typical Post Footing

Scale: 1 1/2" = 1'-0"

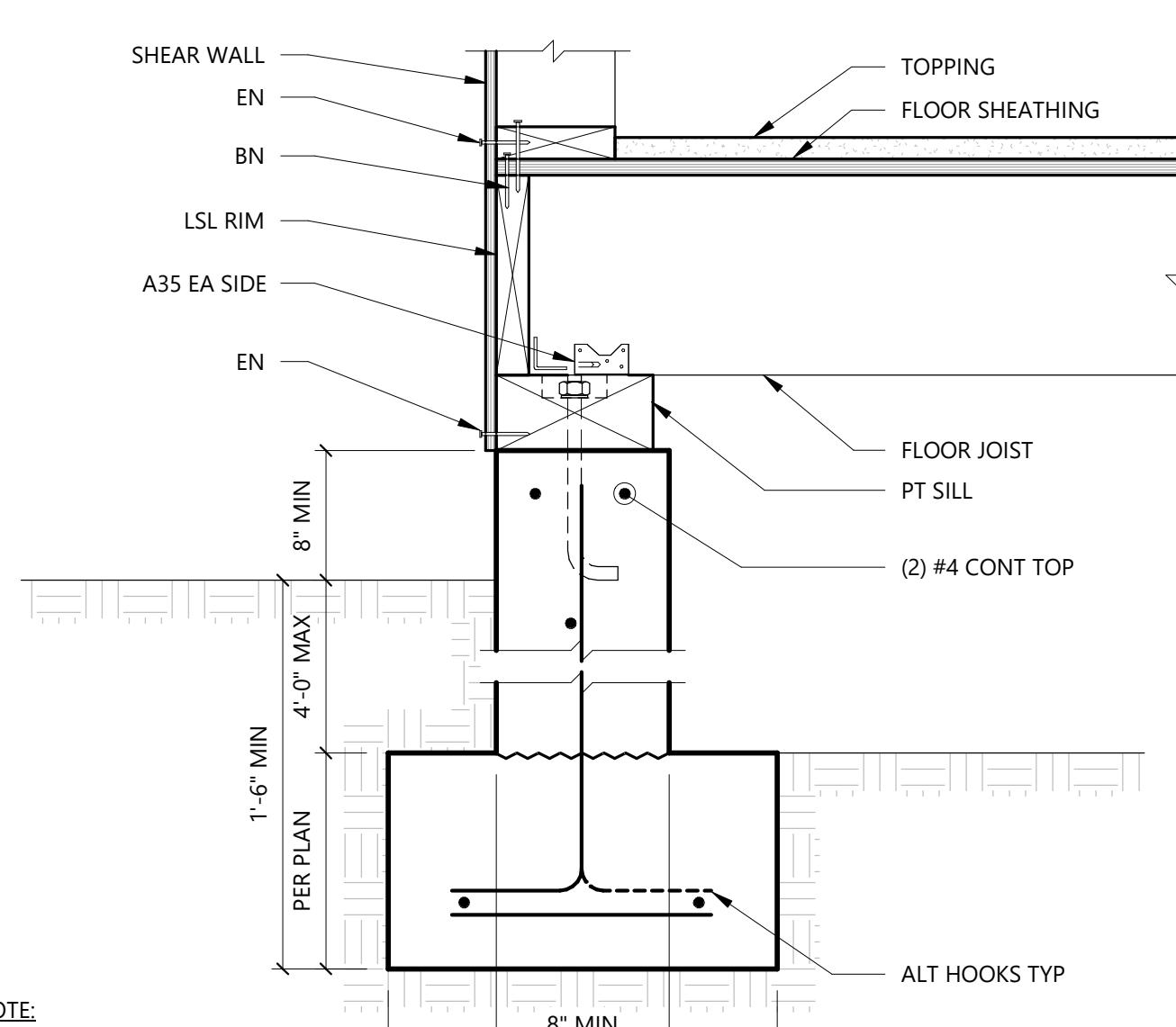
3 Roof Framing at Drop Beam

Scale: 1 1/2" = 1'-0"



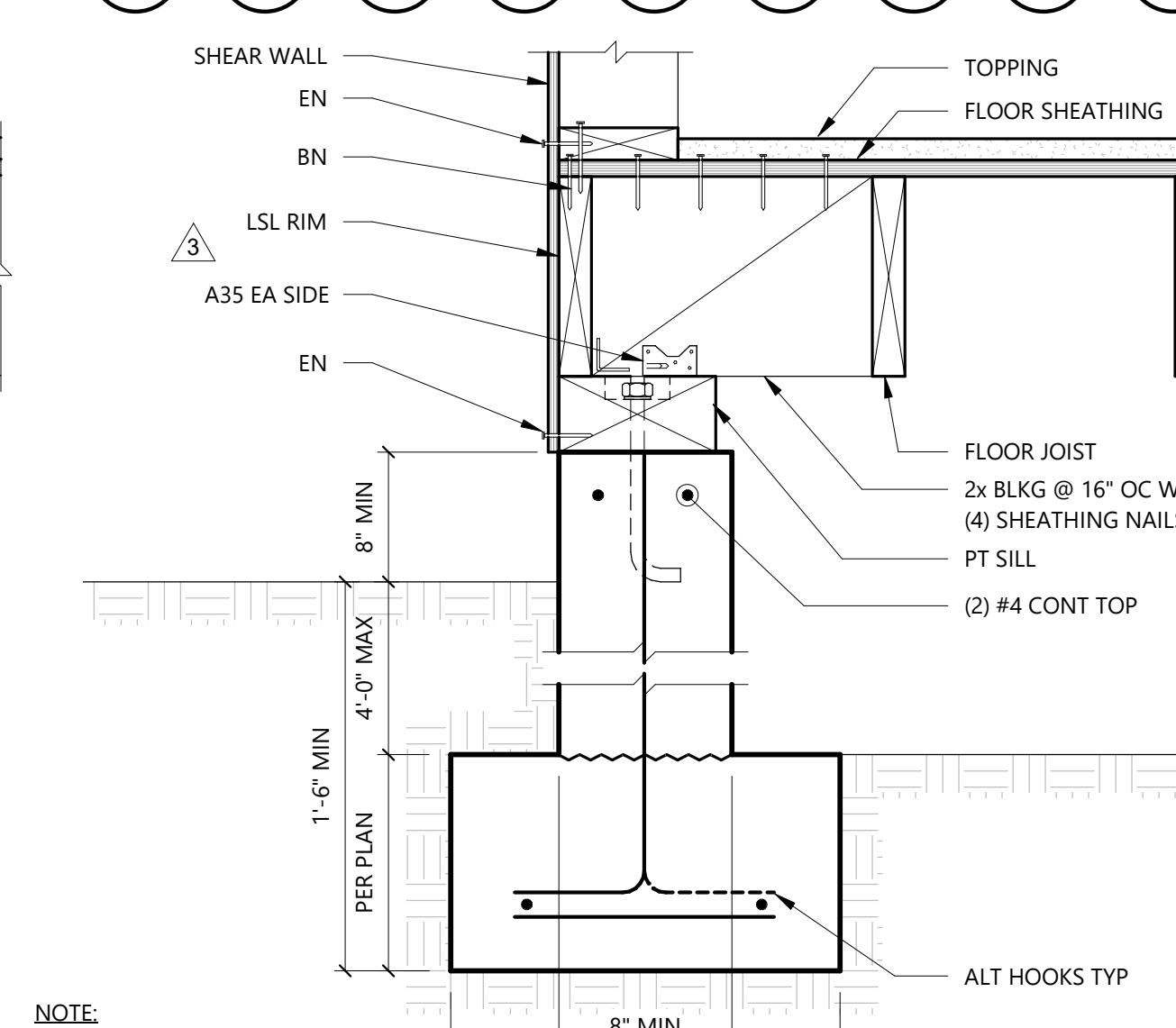
7 Detail

Scale: 1 1/2" = 1'-0"



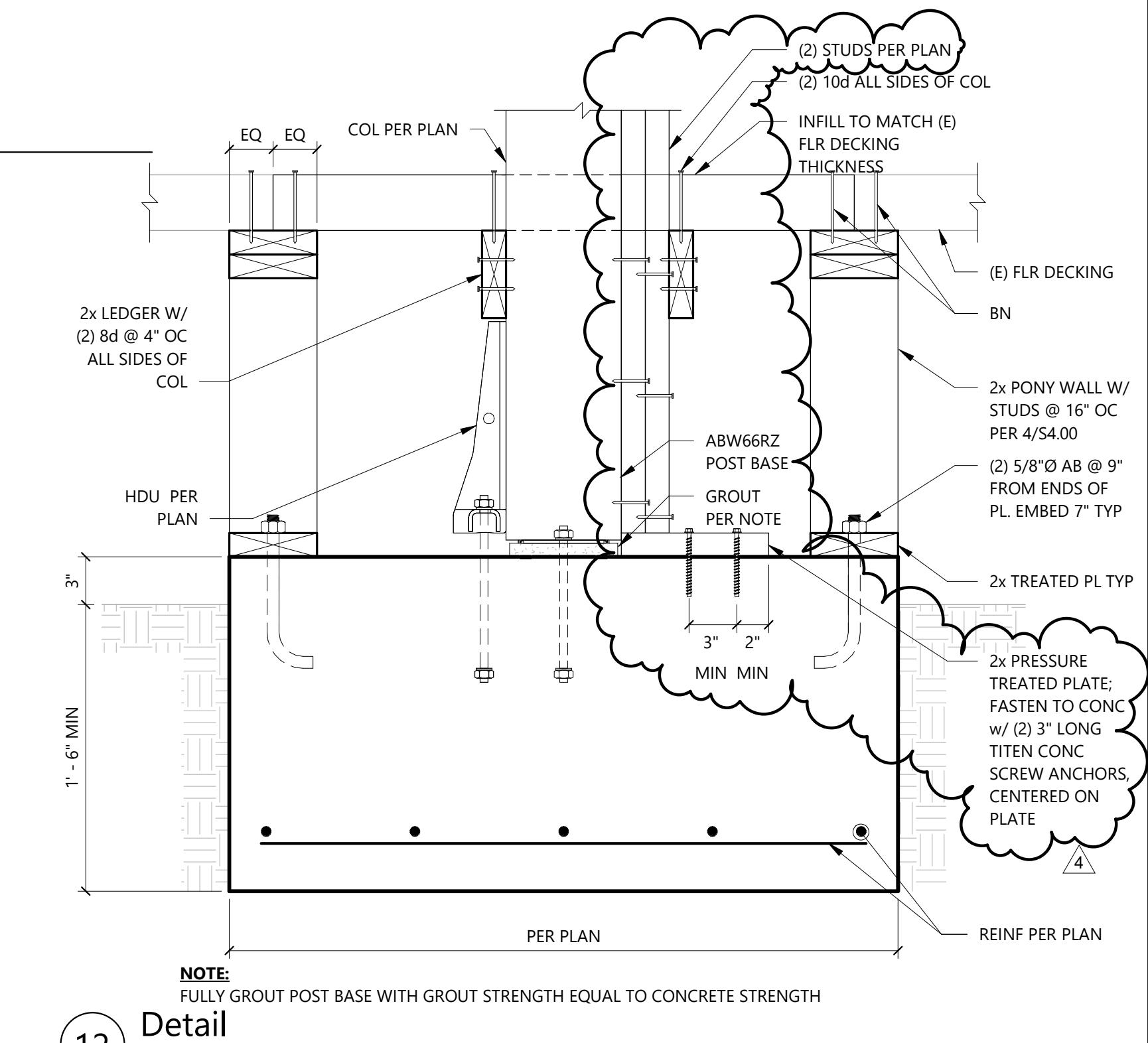
9 Typical 2x Joist Perp Over Stem Wall

Scale: 1 1/2" = 1'-0"



10 Typical 2x Joist Parallel Over Stem Wall

Scale: 1 1/2" = 1'-0"



12 Detail

Scale: 1 1/2" = 1'-0"

Project Title

10341 NE 141st Place  
Kirkland, WA 98034

## Aguilar Addition

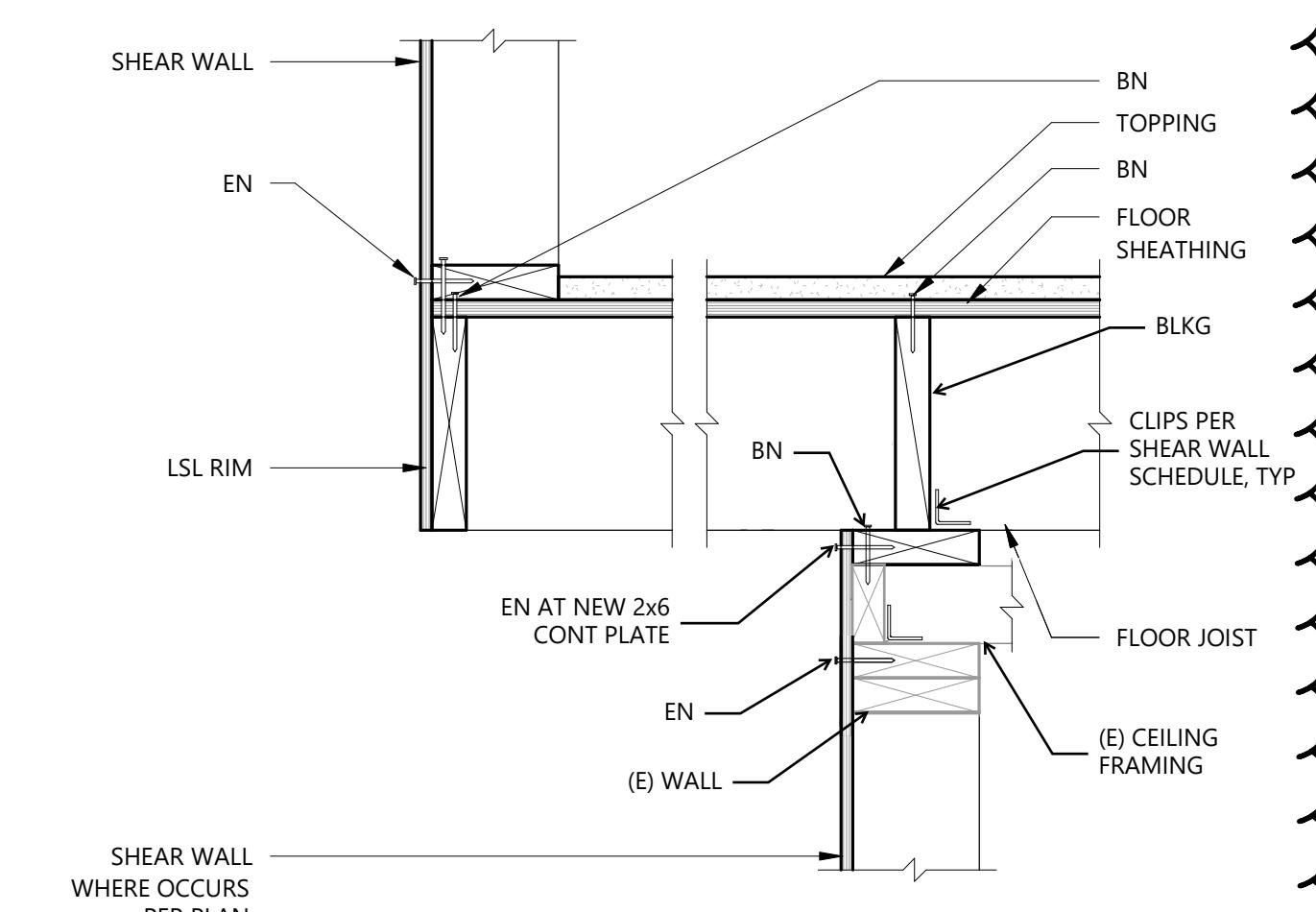
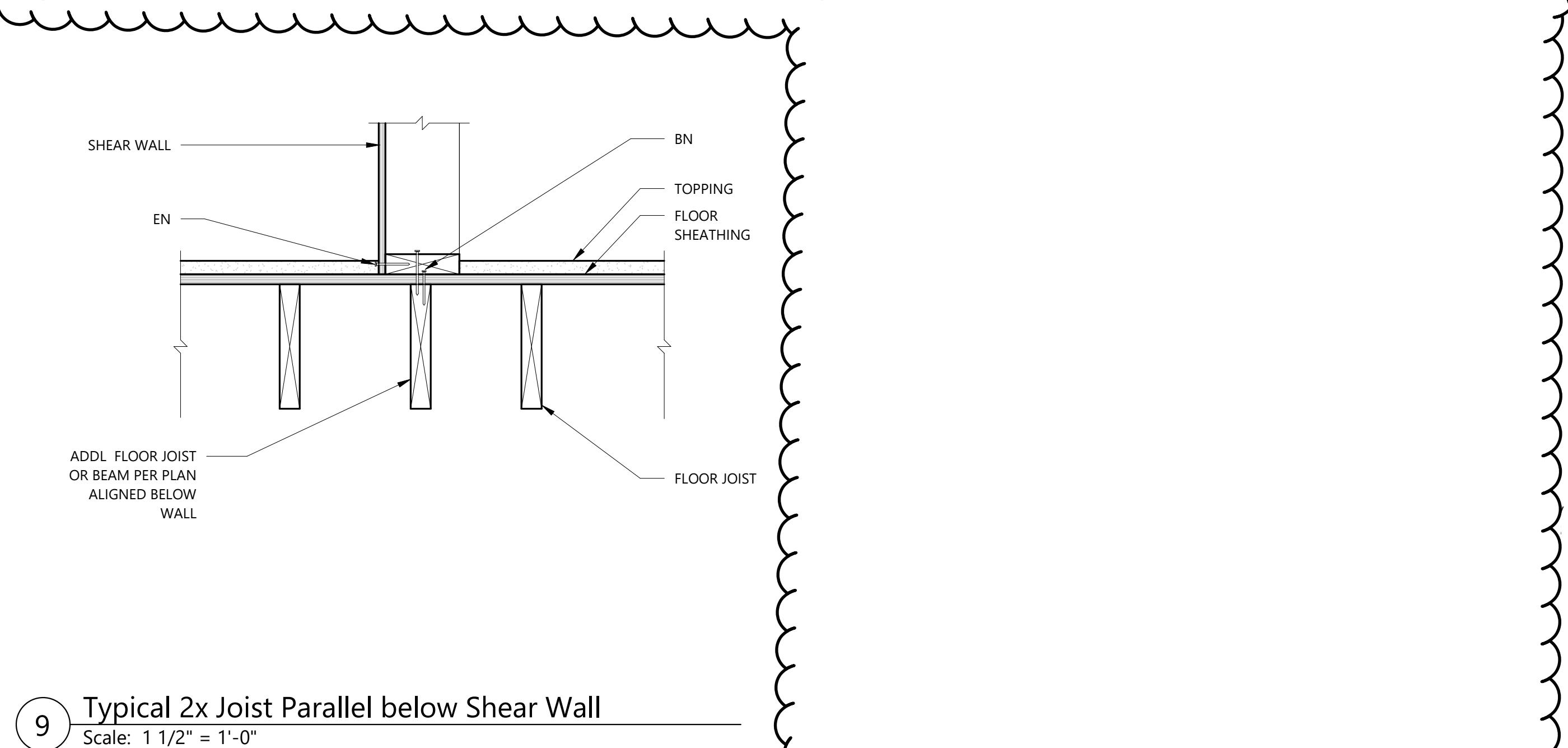
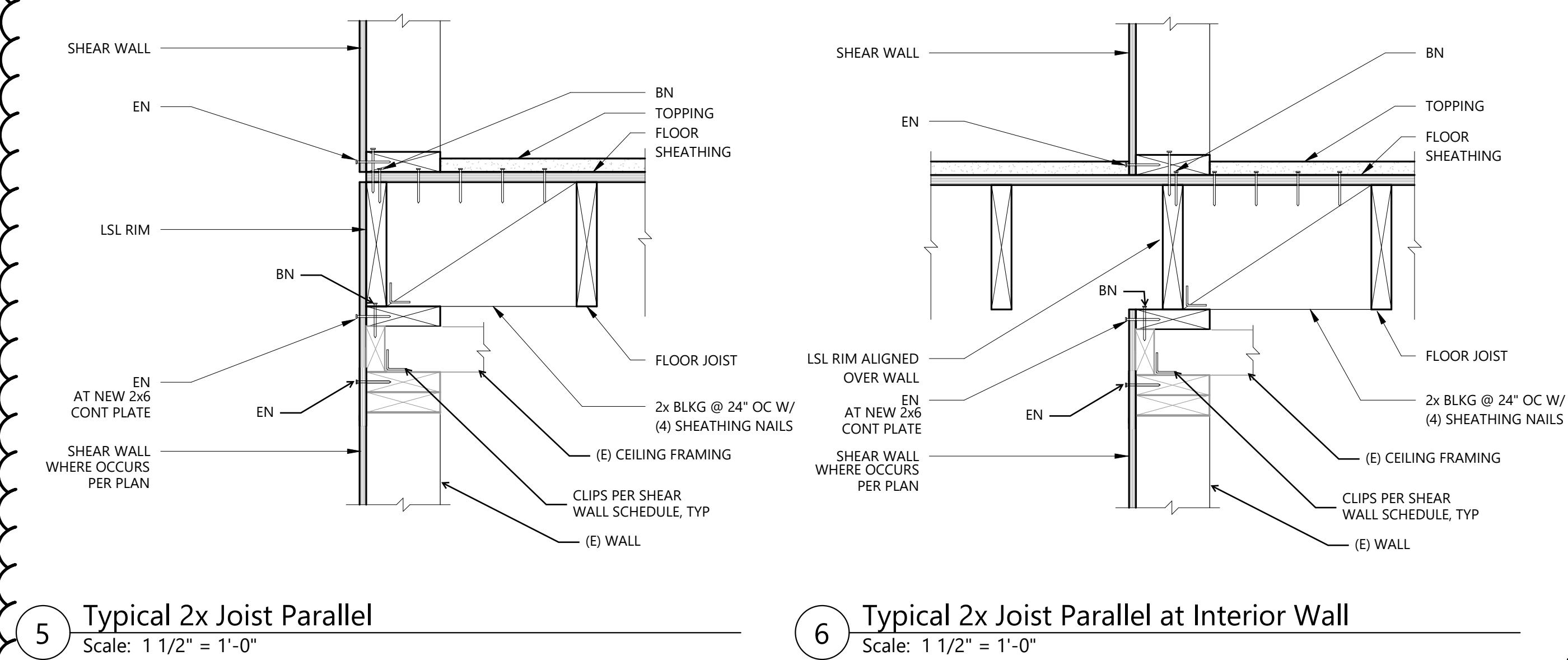
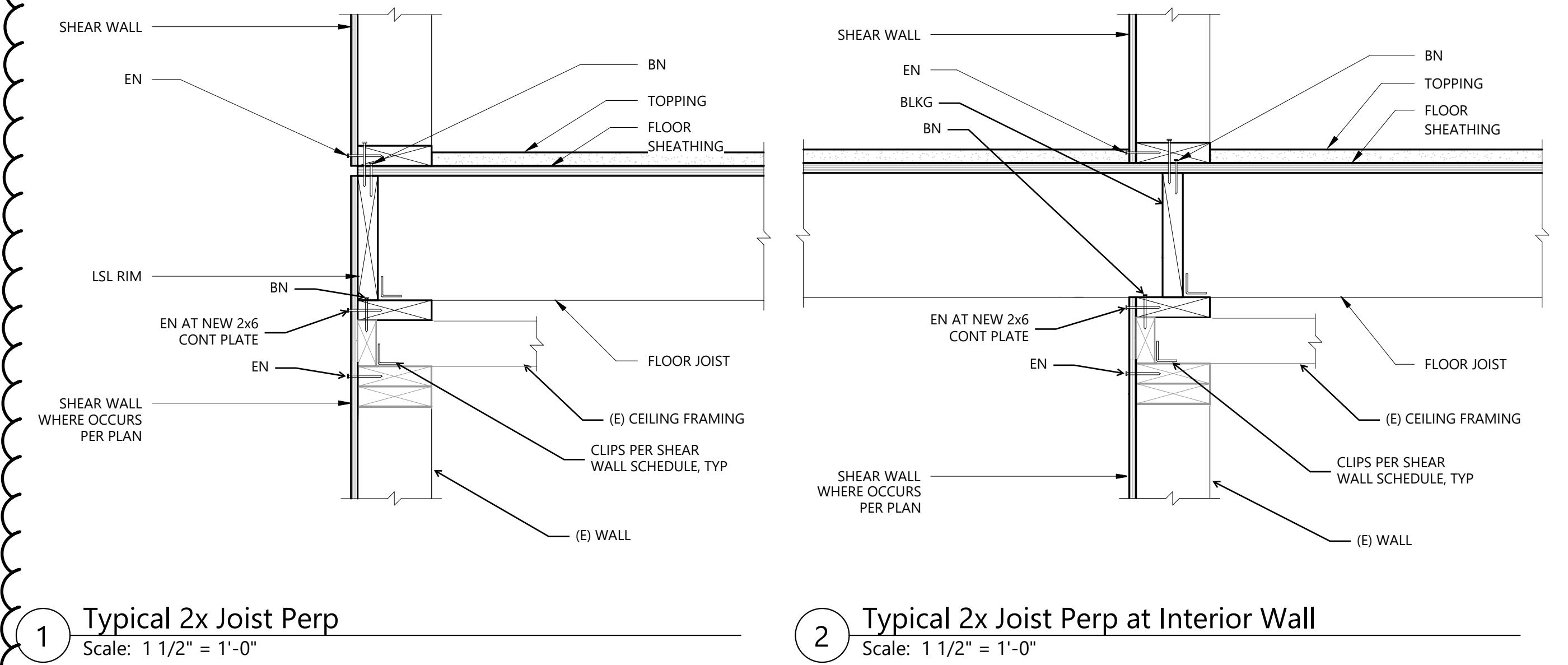
Project Information  
Project No. 17-148-01  
Checked By PO  
Issue PERMIT SET 02/21/2018  
△ REVISION 3 03/04/2022

Department Approval

Sheet Title  
Wood Details

Sheet Number

S4.05



## Aguilar Addition

10341 NE 141st Place  
Kirkland, WA 98034

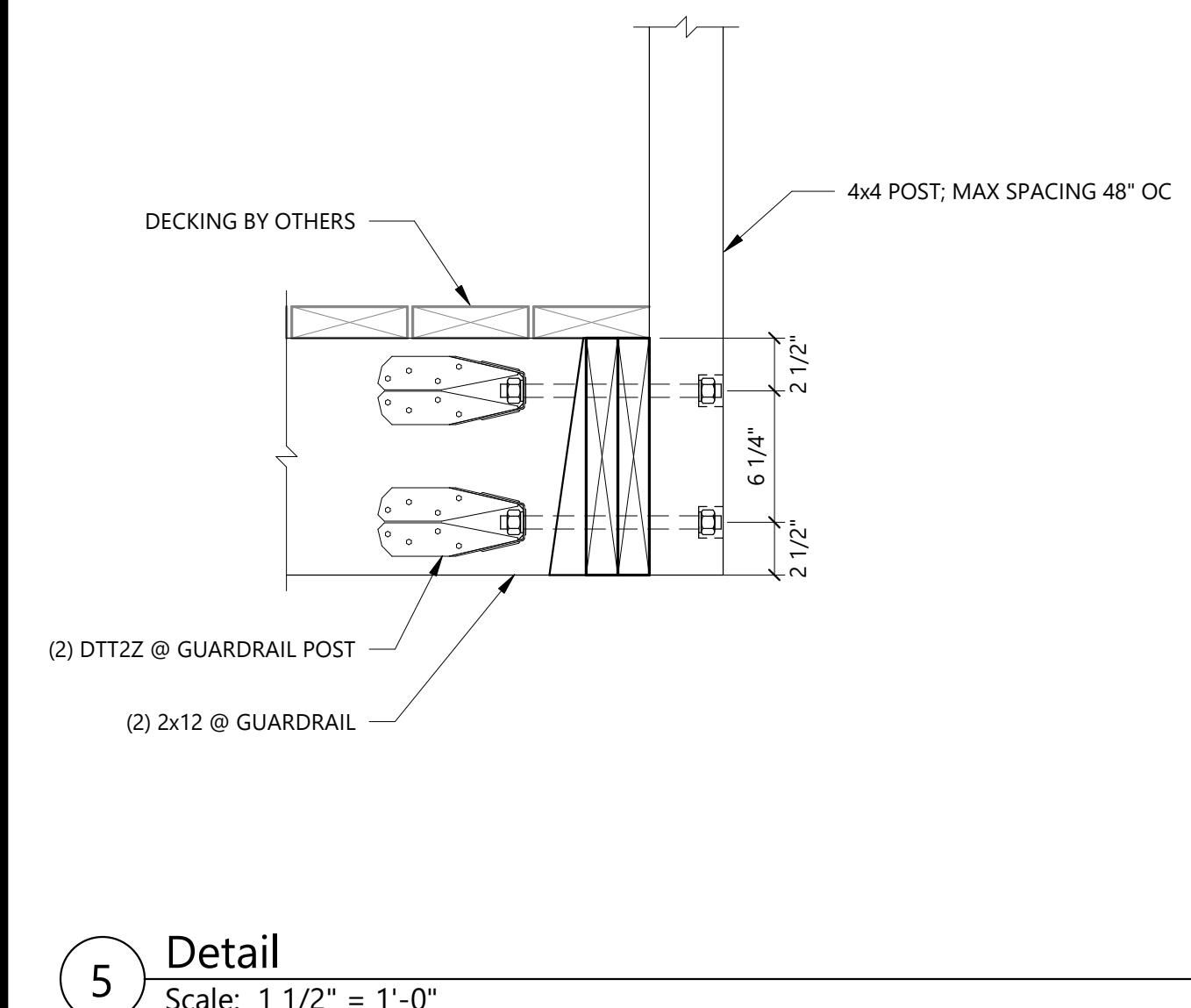
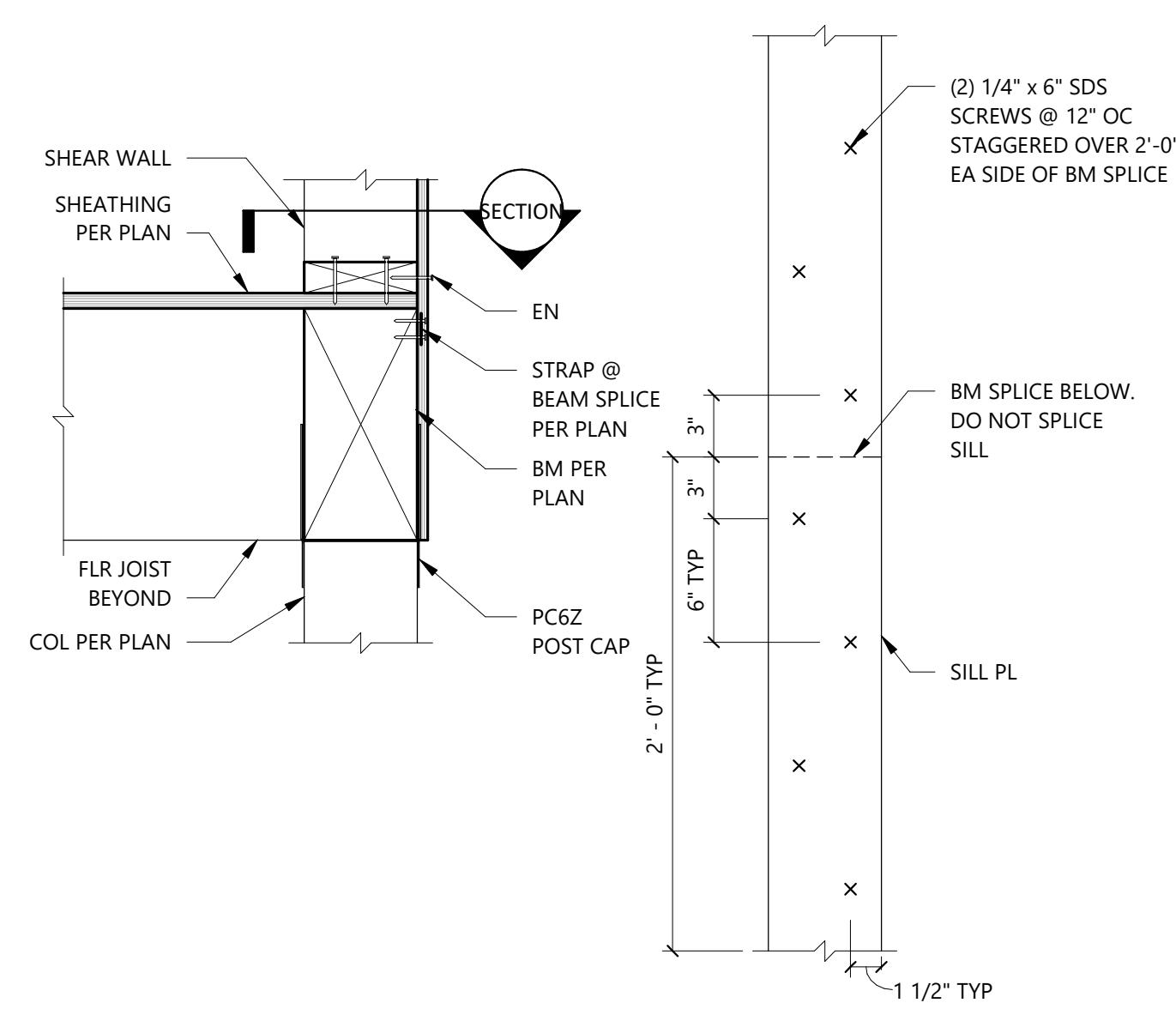
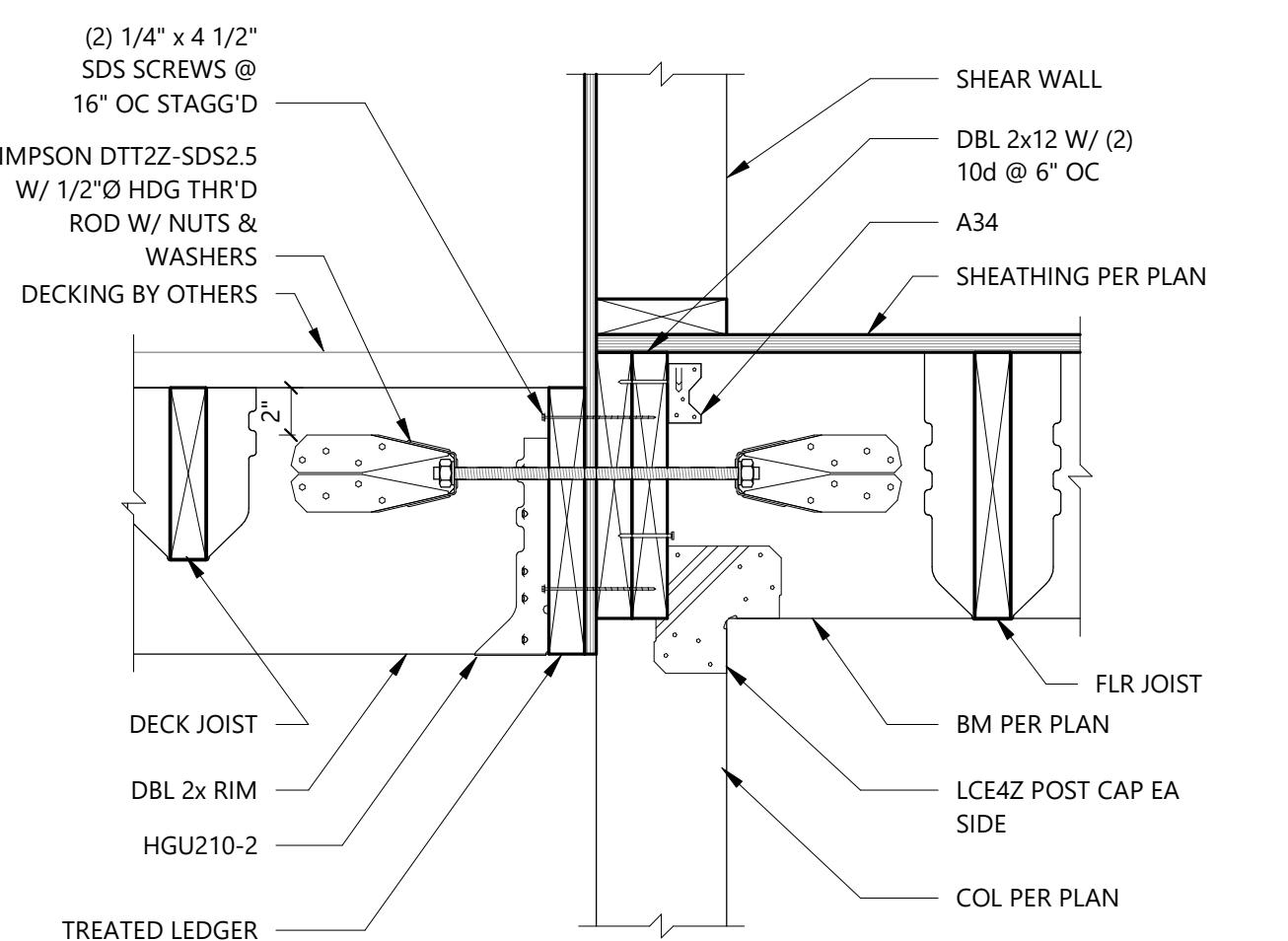
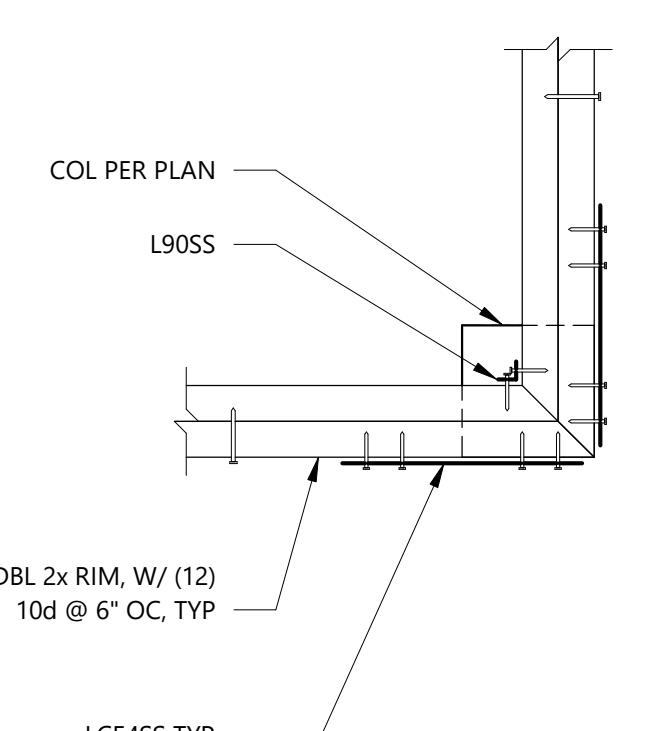
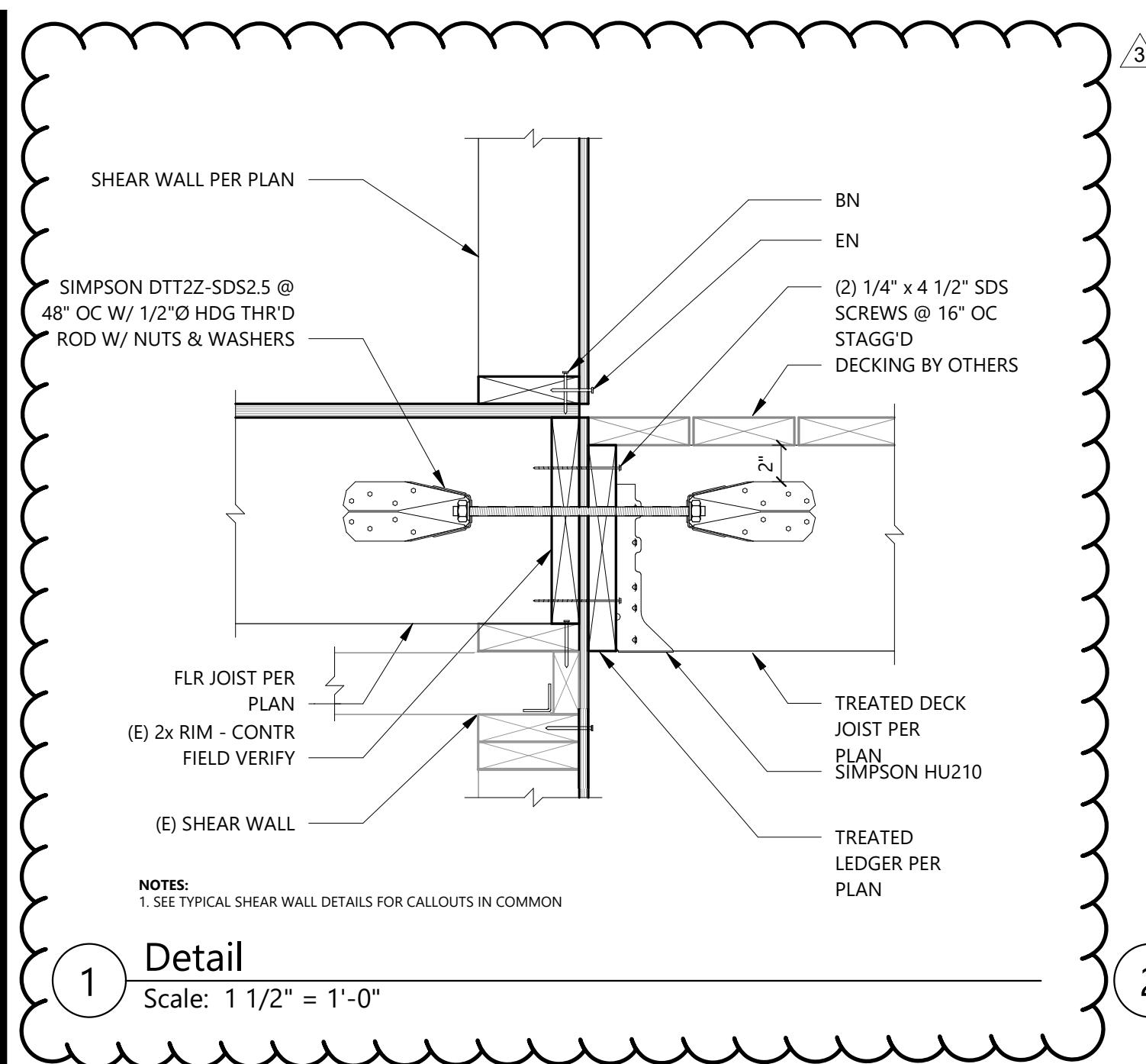
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Project No. 17-148-01  
Checked By PO  
Issue  
PERMIT SET 02/21/2018  
△ PERMIT RESPONSE 07/17/2018  
△ REVISION 3 03/04/2022

Department Approval

Sheet Title  
Wood Details

Sheet Number

S4.06



Project Title

## Aguilar Addition

10341 NE 141st Place  
Kirkland, WA 98034

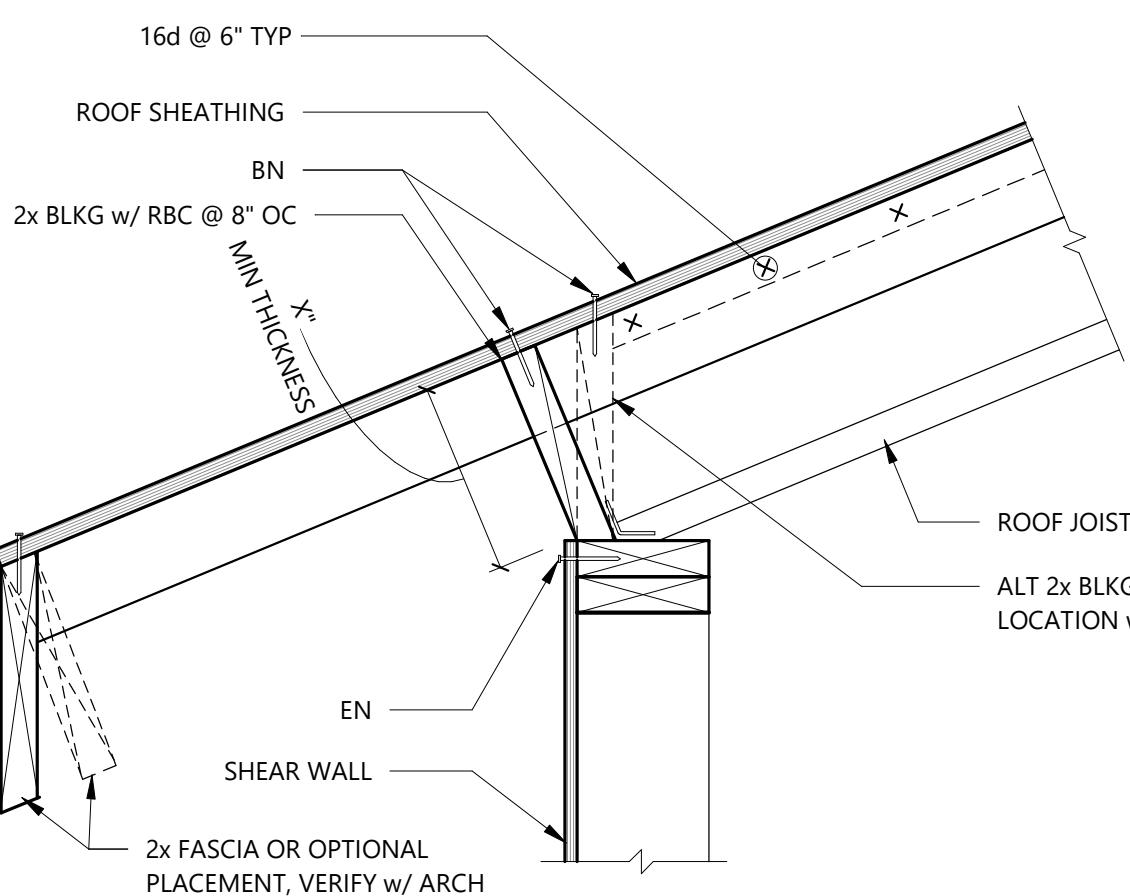
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Checked By PO  
Issue  
PERMIT SET 02/21/2018  
PERMIT RESPONSE 07/17/2018  
PERMIT SET 08/31/2018  
PERMIT RESPONSE 08/31/2018

Department Approval

Sheet Title  
Wood Details

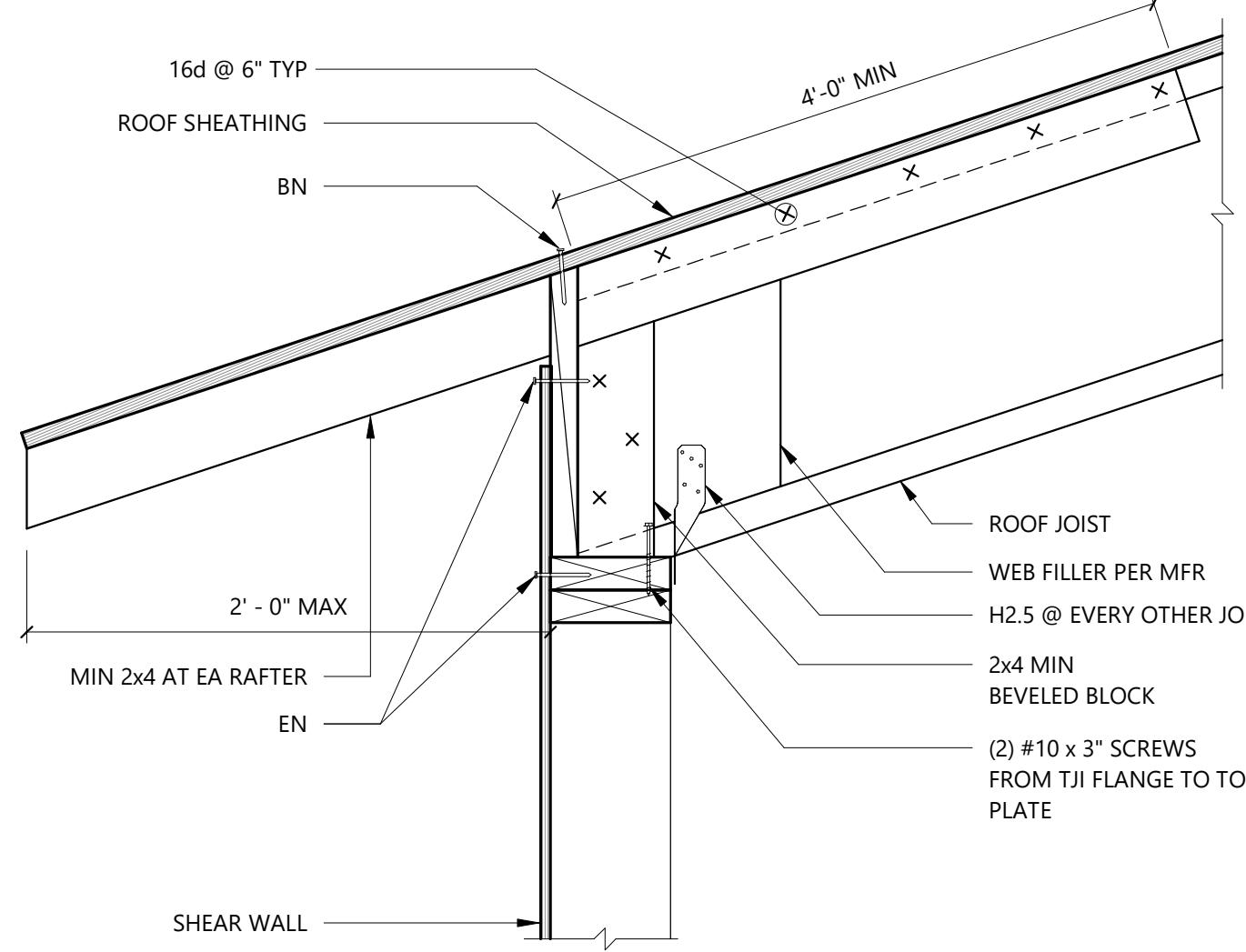
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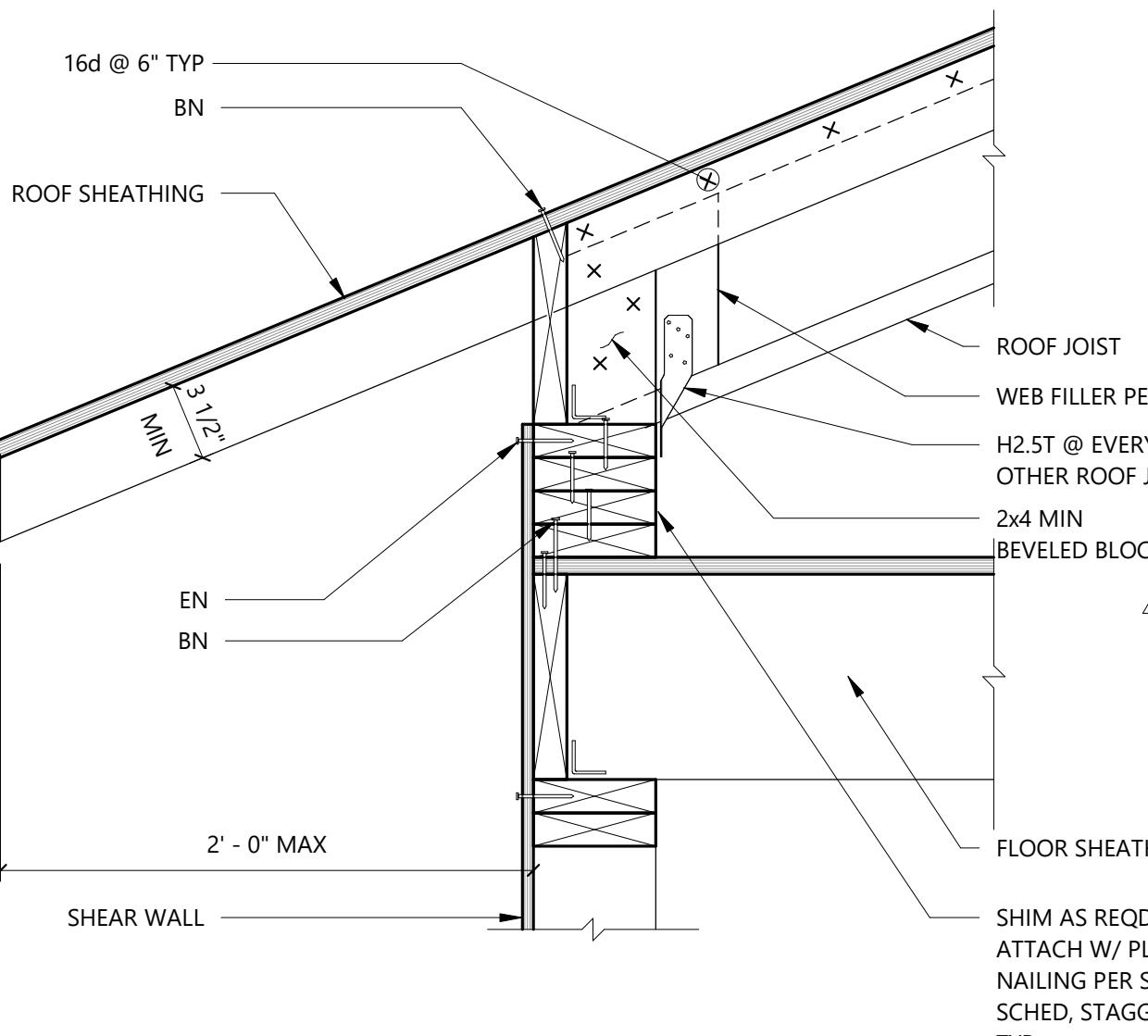
1 Typical I-Joist Rafter

Scale: 1 1/2" = 1'-0"



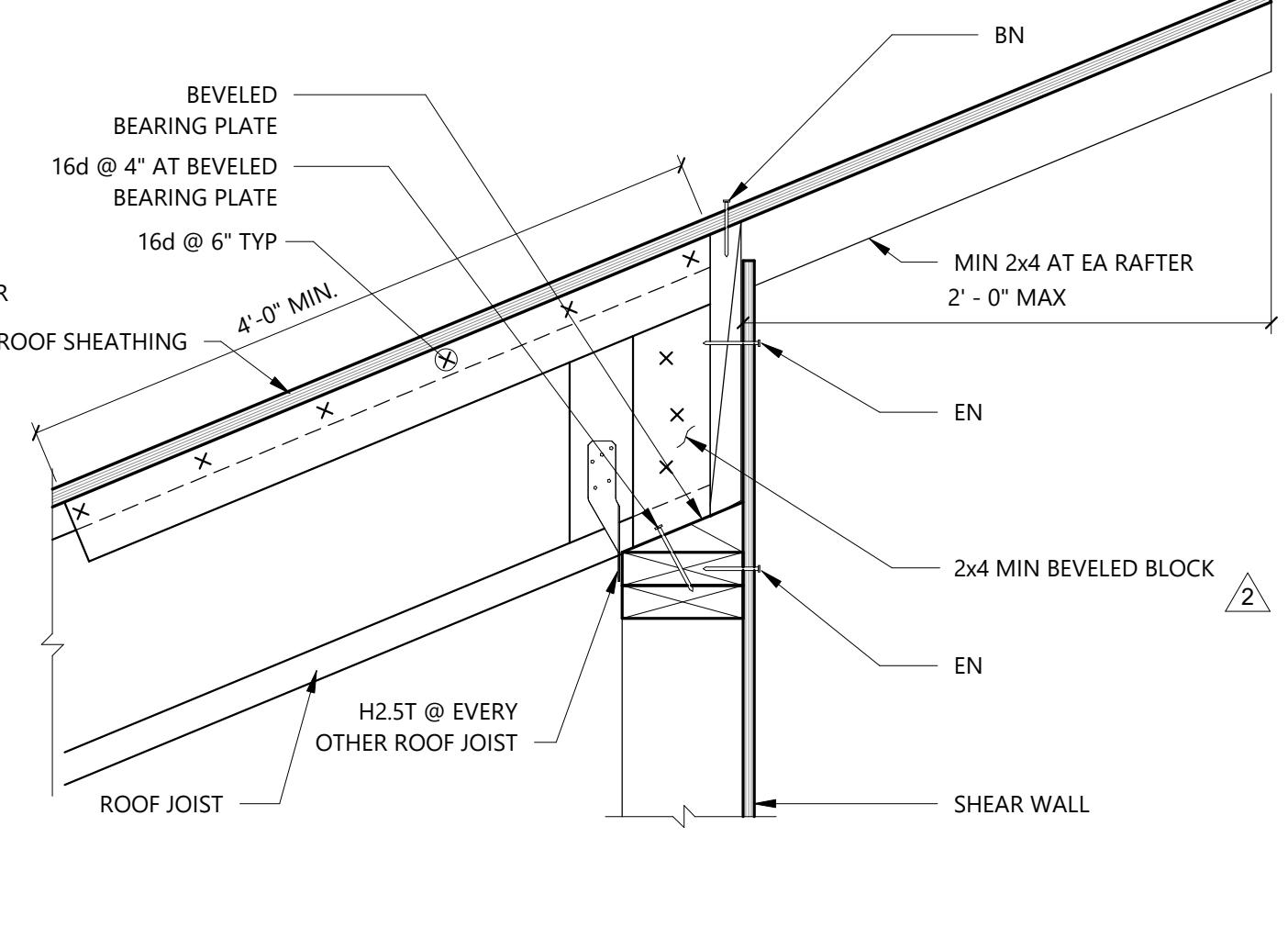
2 Typical I-Joist Rafter Perp

Scale: 1 1/2" = 1'-0"



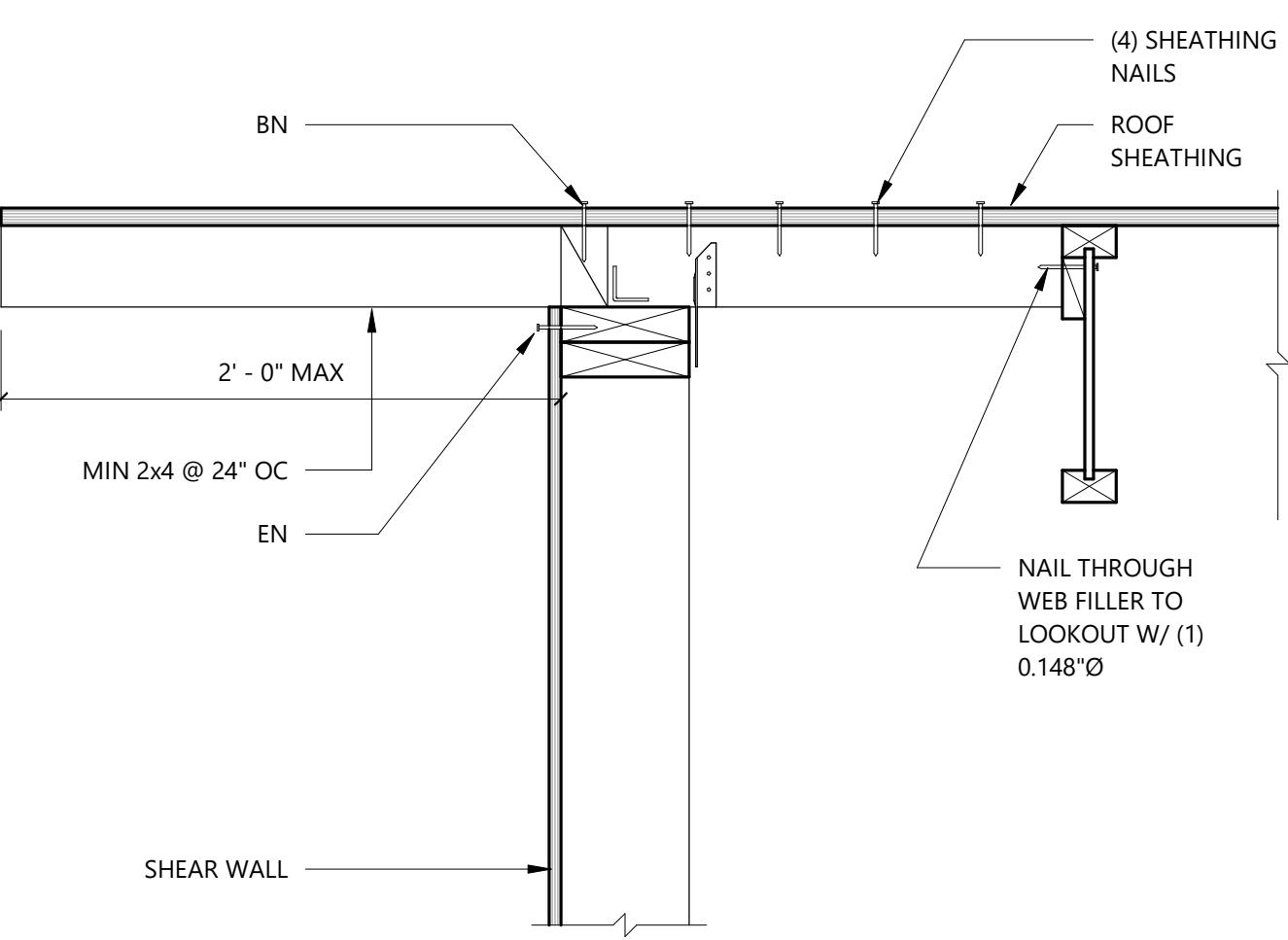
3 Typical I-Joist Rafter Perp at Floor

Scale: 1 1/2" = 1'-0"



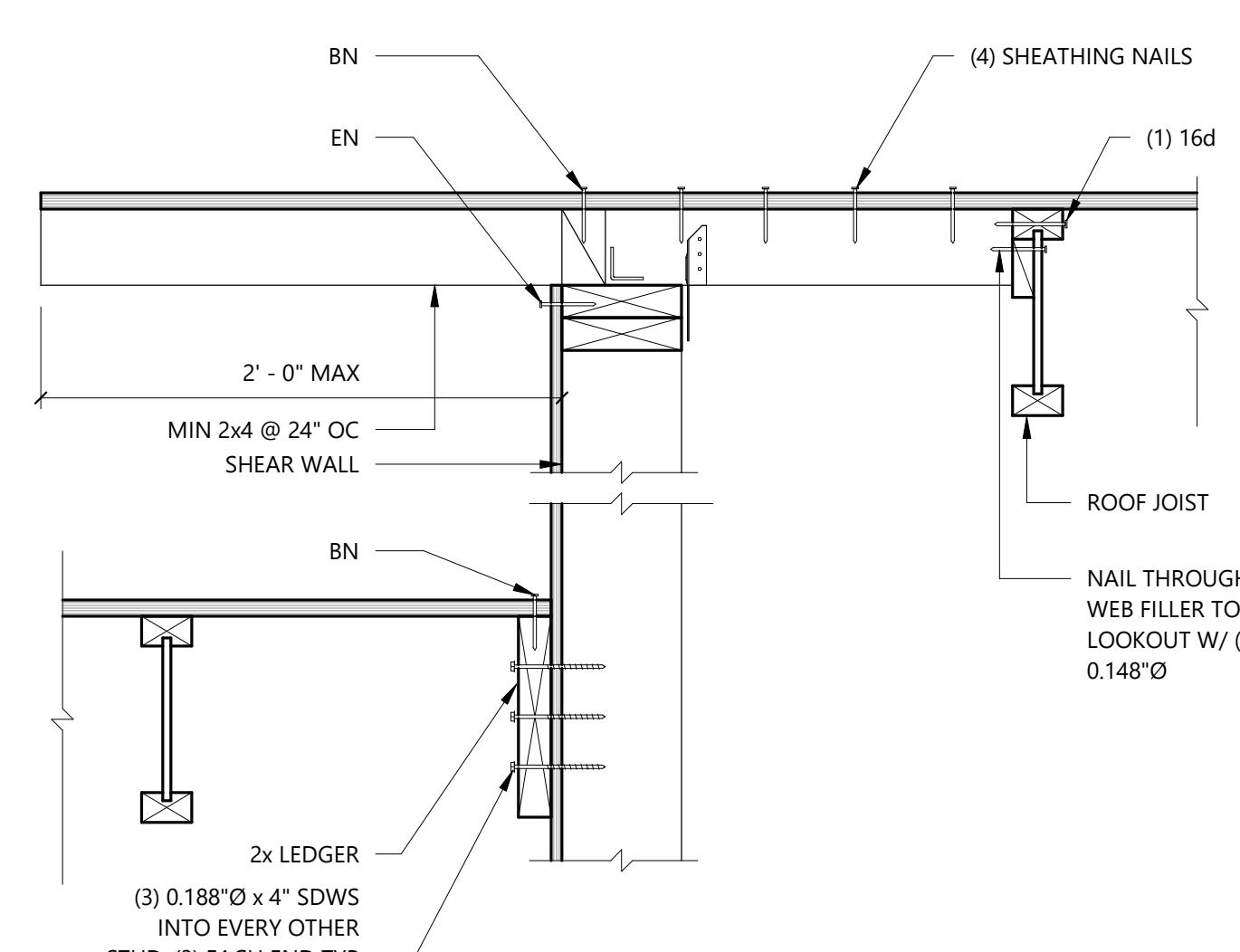
4 Typical I-Joist Rafter Perp High

Scale: 1 1/2" = 1'-0"



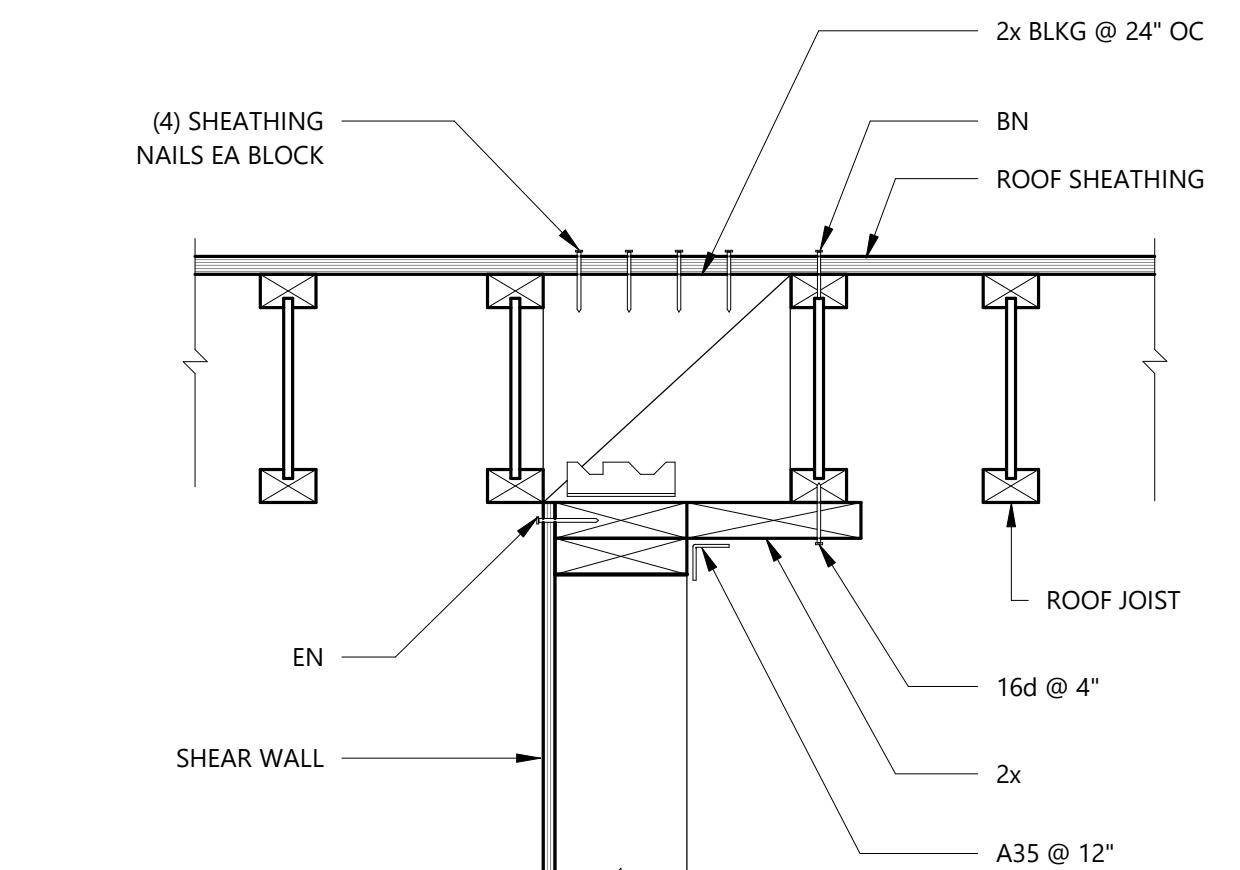
5 Typical I-Joist Rafter Parallel

Scale: 1 1/2" = 1'-0"



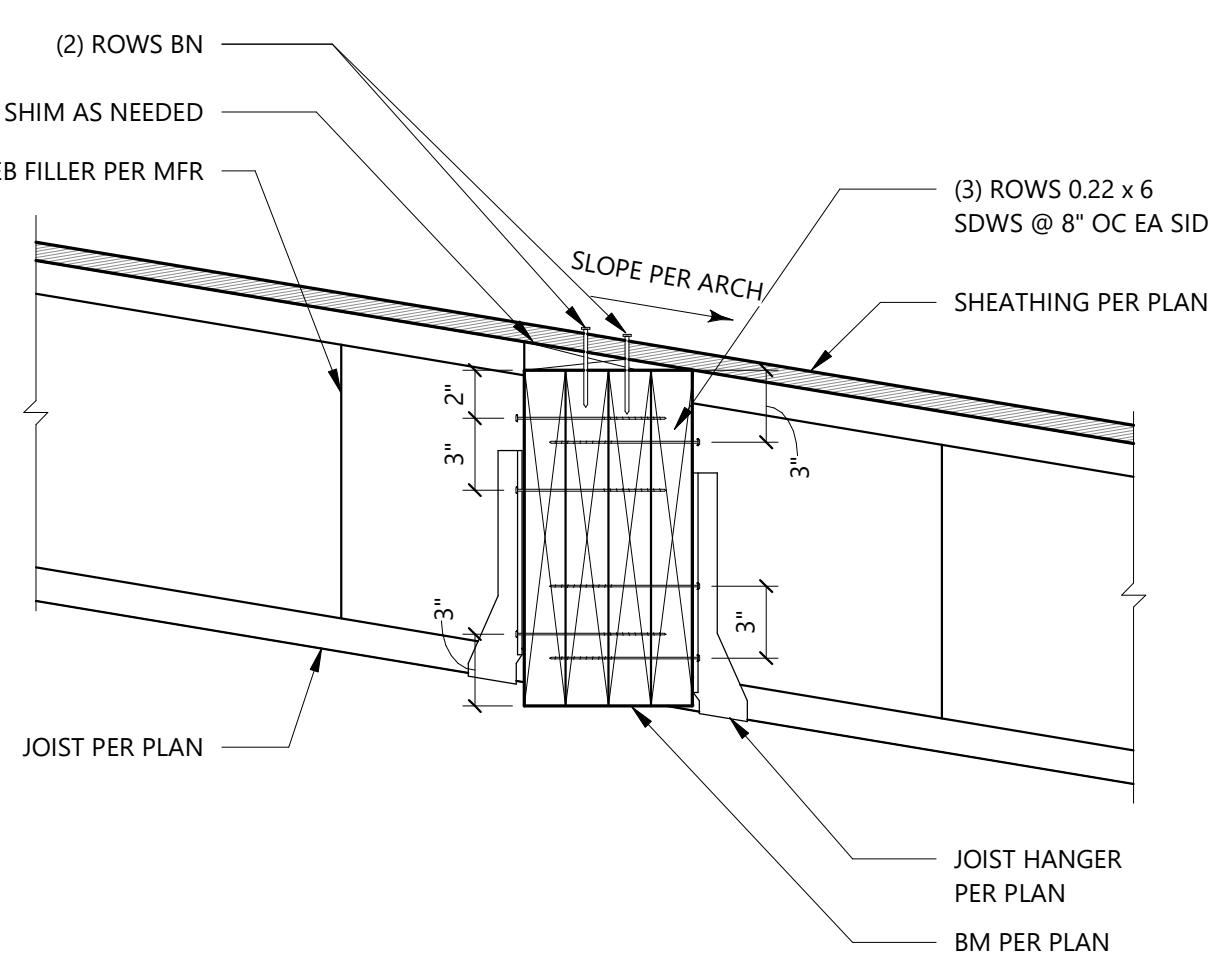
6 Typical I-Joist Rafter Parallel at Step

Scale: 1 1/2" = 1'-0"



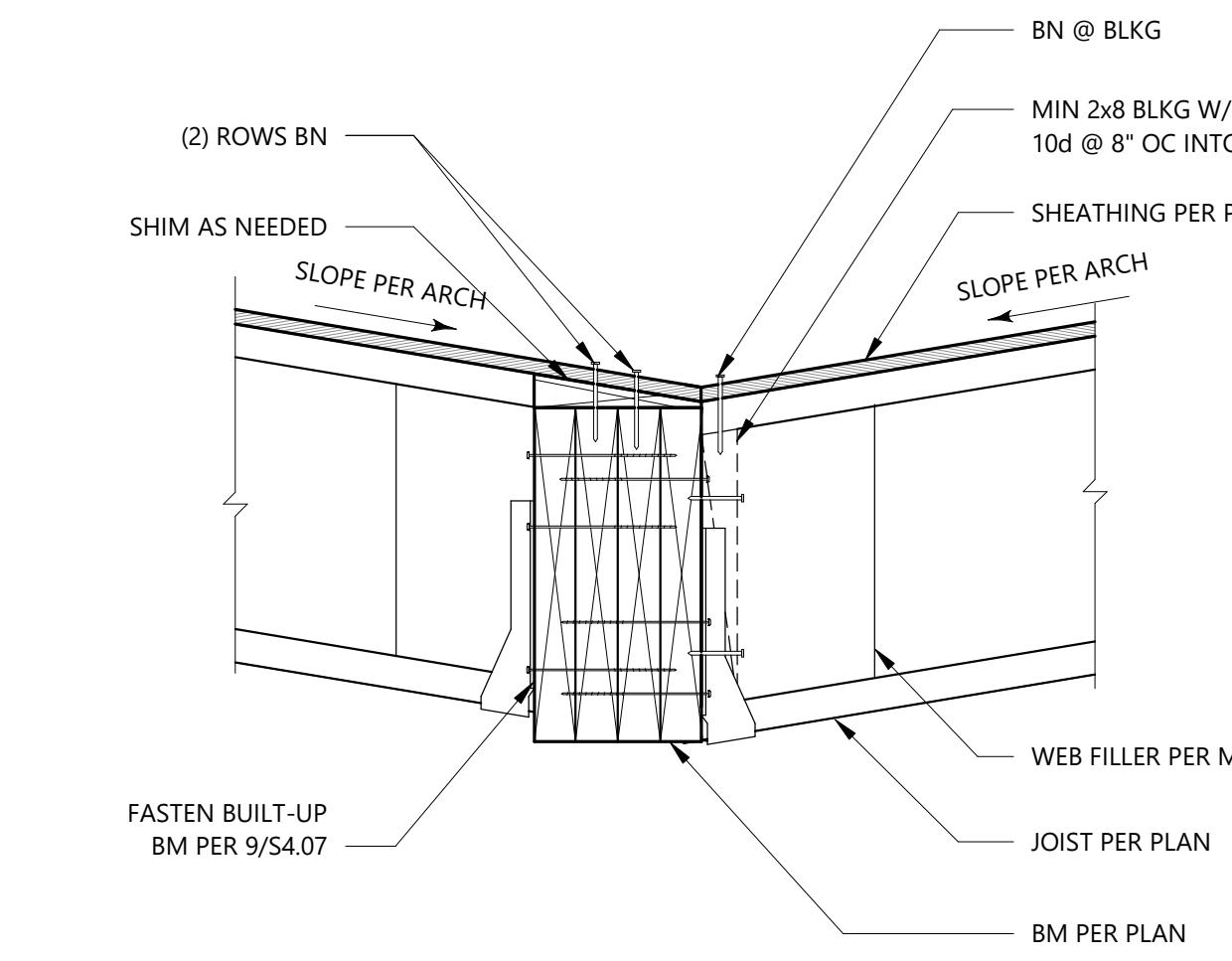
7 I-Joist Roof Framing at Interior Shearwall

Scale: 1 1/2" = 1'-0"



9 Typical Flush Beam Connection

Scale: 1 1/2" = 1'-0"

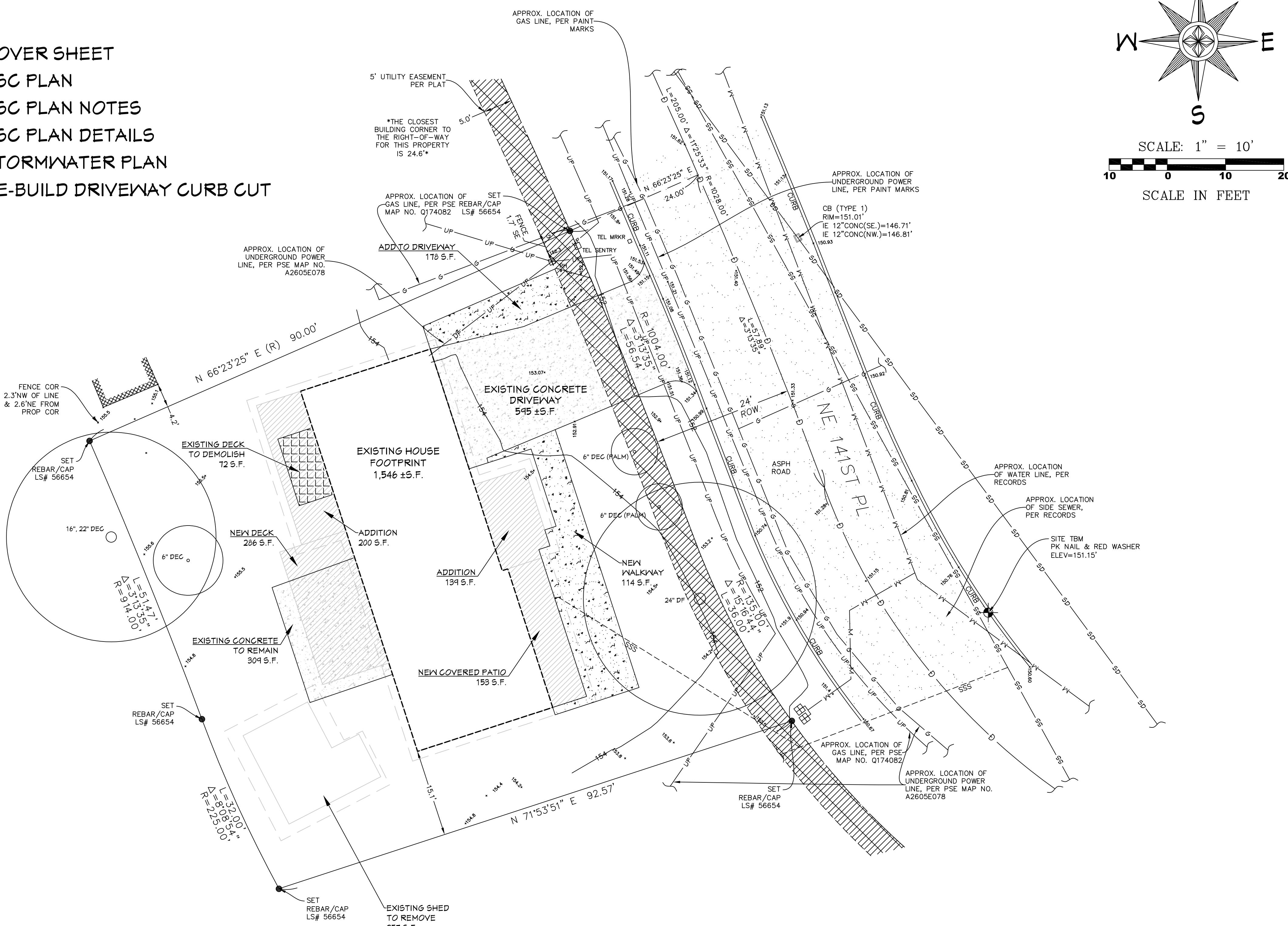


10 Section

Scale: 1 1/2" = 1'-0"

## INDEX:

- C1.0 COVER SHEET
- C2.0 ESC PLAN
- C3.0 ESC PLAN NOTES
- C4.0 ESC PLAN DETAILS
- C5.0 STORMWATER PLAN
- C6.0 RE-BUILD DRIVEWAY CURB CUT



OWNER:  
10341 PROPERTY LLC  
(425) 273-8234  
fmartinez@alphadevelopersllc.com

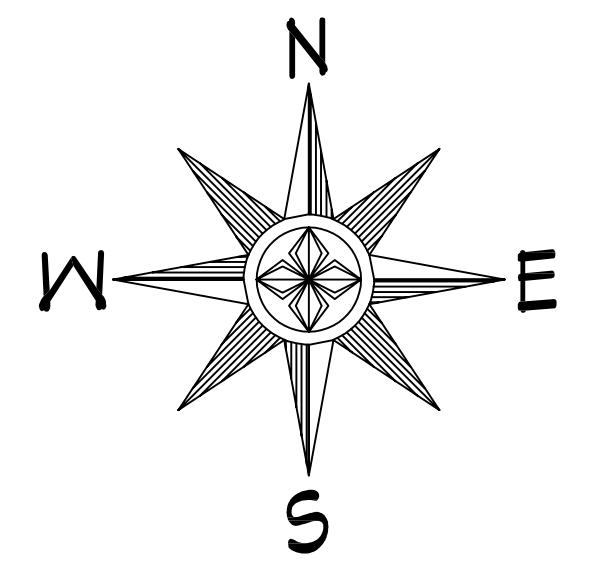
LEGAL DESCRIPTION:  
SUN VILLAGE PLAT BLOCK: PLAT LOT: 59

TAX PARCEL NO.:  
8143000590

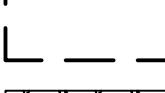
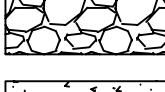
<b><u>EXISTING CONDITION</u></b>				
Land Cover Type	S.F.	Acre	Pervious	Impervious
Pervious Landscape	4955	0.191	X	
Total Pervious	4955	0.191	X	
Existing building (Including eaves)	1762	0.040		X
Existing backyard structure (Including eaves)	407	0.002		X
Existing Driveway	595	0.032		X
Existing backyard concrete area	309	0.009		X
Existing deck (on second floor)	72	0.009		X
Total Impervious	3145	0.083		X
Total site	8100	0.186		

<b><u>PROPOSED CONDITION</u></b>				
Land Cover Type	S.F.	Acre	Pervious	Impervious
Pervious Landscape	4163	0.096	X	
Total Pervious	4163	0.096	X	
Proposed building (Including eaves)	2101	0.040		X
Driveway	773	0.032		X
New walkway	315	0.007		X
New patio	153	0.009		X
New deck (on second floor)	286	0.009		X
Existing backyard concrete area	309	0.009		X
Total Impervious	3937	0.09		X
Total site	8100	0.186		

NEW AND REPLACED IMPERVIOUS SURFACE = 3937 - 3145 = 792 S.F.  
THE PROJECT IS SUBJECT TO BASIC DRAINAGE REVIEW

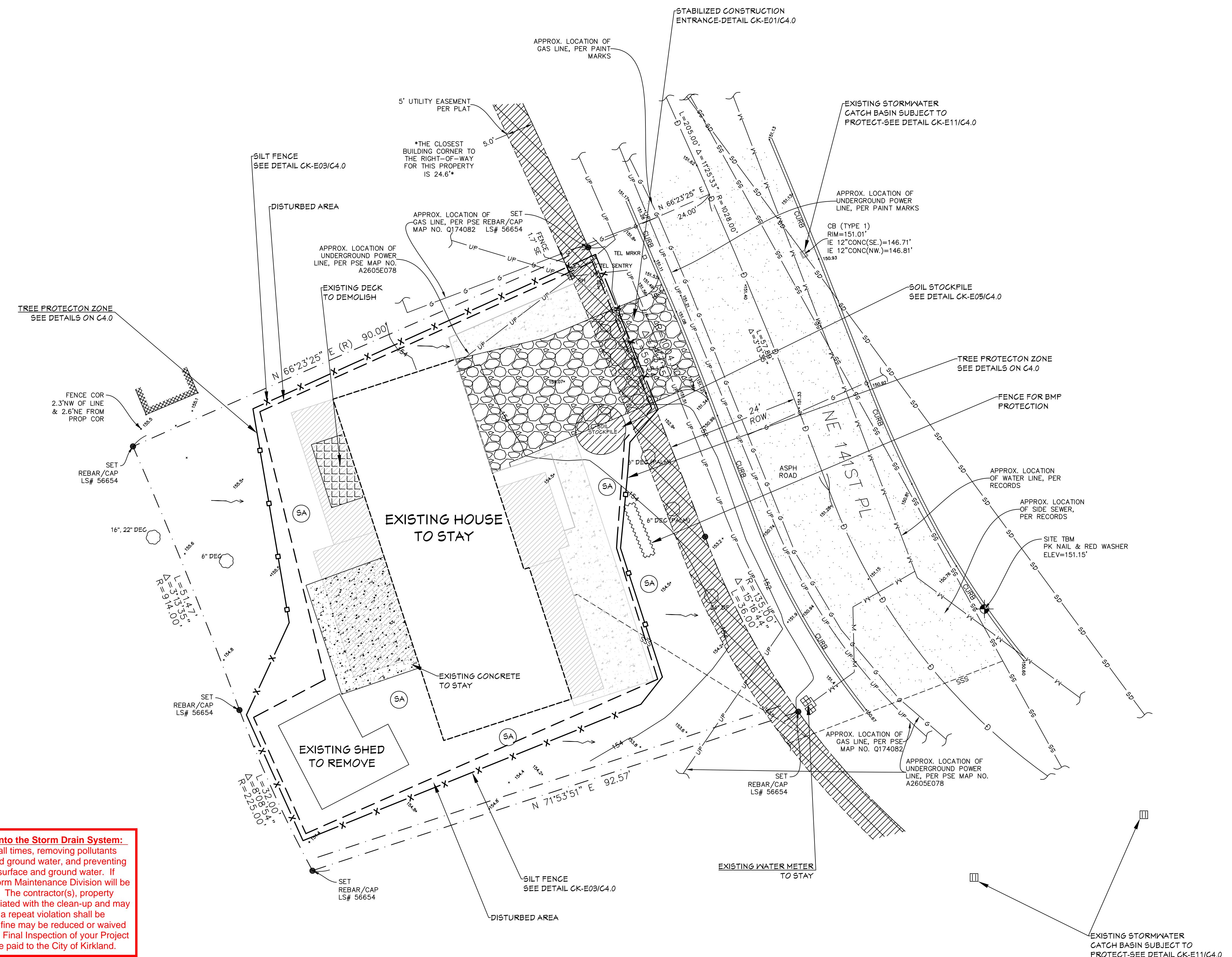


# LEGEND

- WATER METER
- ⊗ SANITARY SEWER CLEANOUT
- ☰ STREET STORM DRAIN CATCH BASIN
- W — WATER LINE
- ss — UNDERGROUND SEWER LINE
- SD — STORM DRAIN PIPE
- X — SILT FENCE
- □ — TREE PROTECTION FENCE
-  DISTURBED AREA
-  CONSTRUCTION ENTRANCE
-  CONCRETE
-  TREE
- FLOW DIRECTION
-  SOIL STOCKPILE
-  SOIL AMENDMENT AREA  
SEE DETAIL CK-E12/C4.0

**Illicit Discharges and Connections (Municipal Code 15.52) are prohibited into the Storm Drain System**

Contractor is responsible for keeping streets clean and free of contaminants at all times, removing pollutants from a private system that enters the municipal storm system and/or surface and ground water, and preventing an illicit discharge (KMC 15.52) into a the municipal storm drain system and/or surface and ground water. If your construction project violates Municipal Code 15.52, the City of Kirkland Storm Maintenance Division will be called to clean the public storm system, and other affected public infrastructure. The contractor(s), property owner, vendor, and any other responsible party may be charged all costs associated with the clean-up and may also be assessed a fine (KMC 1.12.200). The minimum fine is \$500. A fine for a repeat violation shall be determined by multiplying the surface water fine by the number of violations. A fine may be reduced or waived for persons who immediately self-report violation to the city at 425-587-3900. A Final Inspection of your Project will not be granted until all costs associated with the clean-up, and penalties are paid to the City of Kirkland.



## EROSION/SEDIMENTATION CONTROL PLAN NOTES

- THE APPROVED CONSTRUCTION SEQUENCE SHALL BE AS FOLLOWS:
  - CONDUCT PRE-CONSTRUCTION MEETING.
  - FLAG OR FENCE CLEARING LIMITS.
  - POST SIGN WITH NAME AND PHONE NUMBER OF TESC SUPERVISOR.
  - INSTALL CATCH BASIN PROTECTION DOWNSTREAM AND AS DETERMINED BY THE CITY INSPECTOR.
  - GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).
  - INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).
  - CONSTRUCT SEDIMENT PONDS AND TRAPS.
  - GRADE AND STABILIZE CONSTRUCTION ROADS.
  - CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.
  - MAINTAIN EROSION CONTROL MEASURE IN ACCORDANCE WITH CITY OF KIRKLAND STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
  - RELOCATE EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH THE CITY TESC MINIMUM REQUIREMENTS.
  - COVER ALL AREAS WITHIN THE SPECIFIED TIME FRAME WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING, CRUSHED ROCK OR EQUIVALENT.
  - STABILIZE ALL AREAS THAT REACH FINAL GRADE WITHIN 7 DAYS.
  - SEED OR SOD ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
  - UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS MUST BE STABILIZED AND BEST MANAGEMENT PRACTICES REMOVED IF APPROPRIATE.
- CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS CLEAN AND FREE OF CONTAMINANTS AT ALL TIMES AND FOR PREVENTING AN ILLICIT DISCHARGE (KMC 15.52) INTO THE MUNICIPAL STORM DRAIN SYSTEM. IF YOUR CONSTRUCTION PROJECT CAUSES AN ILLICIT DISCHARGE TO THE MUNICIPAL STORM DRAIN SYSTEM, THE CITY OF KIRKLAND STORM MAINTENANCE DIVISION WILL BE CALLED TO CLEAN THE PUBLIC STORM SYSTEM, AND OTHER AFFECTED PUBLIC INFRASTRUCTURE. THE CONTRACTOR(S), PROPERTY OWNER, VENDOR, AND ANY OTHER RESPONSIBLE PARTY MAY BE CHARGED ALL COSTS ASSOCIATED WITH THE CLEAN-UP AND MAY ALSO BE ASSESSED A FINE (KMC 1.12.200). THE MINIMUM FINE IS \$500. A FINE FOR A REPEAT VIOLATION SHALL BE DETERMINED BY MULTIPLYING THE SURFACE WATER FINE BY THE NUMBER OF VIOLATIONS. A FINE MAY BE REDUCED OR WAIVED FOR PERSONS WHO IMMEDIATELY SELF-REPORT VIOLATION TO THE CITY AT 425-587-3900. A FINAL INSPECTION OF YOUR PROJECT WILL NOT BE GRANTED UNTIL ALL COSTS ASSOCIATED WITH THE CLEAN-UP, AND PENALTIES, ARE PAID TO THE CITY OF KIRKLAND.
- CONSTRUCTION DEWATERING DISCHARGES SHALL ALWAYS MEET WATER QUALITY GUIDELINES LISTED IN COK POLICY E-1. SPECIFICALLY, DISCHARGES TO THE PUBLIC STORMWATER DRAINAGE SYSTEM MUST BE BELOW 25 NTU, AND NOT CONSIDERED AN ILLICIT DISCHARGE (PER KMC 15.52.090). TEMPORARY DISCHARGES TO SANITARY SEWER REQUIRE PRIOR AUTHORIZATION AND PERMIT FROM KING COUNTY INDUSTRIAL WASTE PROGRAM (206-477-5300) AND NOTIFICATION TO THE PUBLIC WORKS CONSTRUCTION INSPECTOR.
- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF KIRKLAND STANDARDS AND SPECIFICATIONS.
- THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE SET BY SURVEY AND CLEARLY FLAGGED IN THE FIELD BY A CLEARING CONTROL FENCE PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE OR REMOVAL OF ANY GROUND COVER BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE PERMITTEE / CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
- APPROVAL OF THIS EROSION/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.).
- THE IMPLEMENTATION OF THIS ESC PLAN AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE PERMITTEE/CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
- A COPY OF THE APPROVED ESC PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE

DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS. WHEREVER POSSIBLE, MAINTAIN NATURAL VEGETATION FOR SILT CONTROL.

- THE ESC FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS ON THE APPROVED PLANS. LOCATIONS MAY BE MOVED TO SUIT FIELD CONDITIONS, SUBJECT TO APPROVAL BY THE ENGINEER AND THE CITY OF KIRKLAND INSPECTOR.
- THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED (E.G., ADDITIONAL SUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS. ADDITIONALLY, MORE ESC FACILITIES MAY BE REQUIRED TO ENSURE COMPLETE SILTATION CONTROL. THEREFORE, DURING THE COURSE OF CONSTRUCTION IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY THEIR ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES OVER AND ABOVE THE MINIMUM REQUIREMENTS AS MAY BE NEEDED.
- THE ESC FACILITIES SHALL BE INSPECTED BY THE PERMITTEE/CONTRACTOR DAILY DURING NON-RAINFALL PERIODS, EVERY HOUR (DAYLIGHT) DURING A RAINFALL EVENT, AND AT THE END OF EVERY RAINFALL, AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. IN ADDITION, TEMPORARY SILTATION PONDS AND ALL TEMPORARY SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED, PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL, AND THE POTENTIAL FOR EROSION HAS PASSED. WRITTEN RECORDS SHALL BE KEPT DOCUMENTING THE REVIEWS OF THE ESC FACILITIES.
- THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN 48 HOURS FOLLOWING A STORM EVENT.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- ALL DENUDED SOILS MUST BE STABILIZED WITH AN APPROVED TESC METHOD (E.G. SEEDING, MULCHING, PLASTIC COVERING, CRUSHED ROCK) WITHIN THE FOLLOWING TIMELINES:
  - MAY 1 TO SEPTEMBER 30 – SOILS MUST BE STABILIZED WITHIN 7 DAYS OF GRADING.
  - OCTOBER 1 TO APRIL 30 – SOILS MUST BE STABILIZED WITHIN 2 DAYS OF GRADING.
  - STABILIZE SOILS AT THE END OF THE WORKDAY PRIOR TO A WEEKEND, HOLIDAY, OR PREDICTED RAIN EVENT.
- THE LONG-TERM USE OF PLASTIC COVERING ON A SITE SHALL BE LIMITED TO ONE WET SEASON (OCTOBER 1 TO APRIL 30). AFTER THAT, THE SITE WILL BE REQUIRED TO HYDROSEED OR INSTALL OTHER TESC METHODS AS APPROVED BY THE PUBLIC WORKS DEPARTMENT.
- WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMINATING GRASSES SHALL BE APPLIED AT AN APPROPRIATE RATE (EXAMPLE: ANNUAL OR PERENNIAL RYE APPLIED AT APPROXIMATELY 80 POUNDS PER ACRE).
- WHERE STRAW MULCH IS REQUIRED FOR TEMPORARY EROSION CONTROL, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2".
- ALL LOTS ADJOINING OR HAVING ANY NATIVE GROWTH PROTECTION EASEMENTS (NGPE) SHALL HAVE A 6' HIGH TEMPORARY CONSTRUCTION FENCE (CHAIN LINK WITH PIER BLOCKS) SEPARATING THE LOT (OR BUILDABLE PORTIONS OF THE LOT) FROM THE AREA RESTRICTED BY THE NGPE AND SHALL BE INSTALLED PRIOR TO ANY GRADING OR CLEARING AND REMAIN IN PLACE UNTIL THE PLANNING DEPARTMENT AUTHORIZES REMOVAL.
- CLEARING LIMITS SHALL BE DELINEATED WITH A CLEARING CONTROL FENCE. THE CLEARING CONTROL FENCE SHALL CONSIST OF A 6-FT. HIGH CHAIN LINK FENCE ADJACENT THE DRIP LINE OF TREES TO BE SAVED, WETLAND OR STREAM BUFFERS, AND SENSITIVE SLOPES. CLEARING CONTROL FENCES ALONG WETLAND OR STREAM BUFFERS OR UPSLOPE OF SENSITIVE SLOPES SHALL BE ACCOMPANIED BY AN EROSION CONTROL FENCE. IF APPROVED BY THE CITY, A FOUR-FOOT HIGH ORANGE MESH CLEARING CONTROL FENCE MAY BE USED TO DELINEATE CLEARING LIMITS IN ALL OTHER AREAS.
- OFF-SITE STREETS MUST BE KEPT CLEAN AT ALL TIMES. IF DIRT IS DEPOSITED ON THE PUBLIC STREET SYSTEM, THE STREET SHALL BE IMMEDIATELY CLEANED WITH POWER SWEEPER OR OTHER EQUIPMENT. ALL VEHICLES SHALL LEAVE

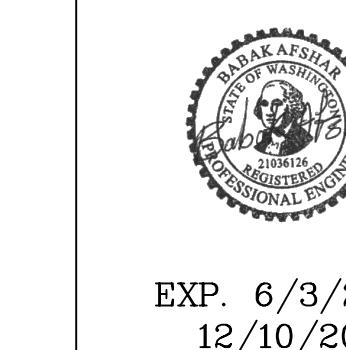
THE SITE BY WAY OF THE CONSTRUCTION ENTRANCE AND SHALL BE FREE OF ALL DIRT THAT WOULD BE DEPOSITED ON THE PUBLIC STREETS.

- ROCK FOR EROSION PROTECTION OF ROADWAY DITCHES, WHERE REQUIRED, MUST BE OF SOUND QUARRY ROCK, PLACED TO A DEPTH OF 1' AND MUST MEET THE FOLLOWING SPECIFICATIONS: 4"-8" ROCK/40%-70% PASSING; 2"-4" ROCK/30%-40% PASSING; AND 1"-2" ROCK/10%-20% PASSING. RECYCLED CONCRETE SHALL NOT BE USED FOR EROSION PROTECTION, INCLUDING CONSTRUCTION ENTRANCE OR TEMPORARY STABILIZATION ELSEWHERE ON THE SITE.
- IF ANY PART(S) OF THE CLEARING LIMIT BOUNDARY OR TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN IS/ARE DAMAGED, IT SHALL BE REPAIRED IMMEDIATELY.
- ALL PROPERTIES ADJACENT TO THE PROJECT SITE SHALL BE PROTECTED FROM SEDIMENT DEPOSITION AND RUNOFF.
- AT NO TIME SHALL MORE THAN 1' OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED IMMEDIATELY FOLLOWING REMOVAL OF EROSION CONTROL BMPs. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE PERMANENT FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION OR DISPERSION SYSTEM, THE FACILITY SHALL NOT BE USED AS A TEMPORARY SETTLING BASIN. NO UNDERGROUND DETENTION TANK, DETENTION VAULT, OR SYSTEM WHICH BACKS UNDER OR INTO A POND SHALL BE USED AS A TEMPORARY SETTLING BASIN.
- ALL EROSION/SEDIMENTATION CONTROL PONDS WITH A DEAD STORAGE DEPTH EXCEEDING 6" MUST HAVE A PERIMETER FENCE WITH A MINIMUM HEIGHT OF 3'.
- THE WASHED GRAVEL BACKFILL ADJACENT TO THE FILTER FABRIC FENCE SHALL BE REPLACED AND THE FILTER FABRIC CLEANED IF IT IS NONFUNCTIONAL BY EXCESSIVE SILT ACCUMULATION AS DETERMINED BY THE CITY OF KIRKLAND. ALSO, ALL INTERCEPTOR SWALES SHALL BE CLEANED IF SILT ACCUMULATION EXCEEDS ONE-QUARTER DEPTH.
- PRIOR TO THE OCTOBER 1 OF EACH YEAR (THE BEGINNING OF THE WET SEASON), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. THE IDENTIFIED DISTURBED AREA SHALL BE SEEDED WITHIN ONE WEEK AFTER OCTOBER 1. A SITE PLAN DEPICTING THE AREAS TO BE SEEDED AND THE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE PUBLIC WORKS CONSTRUCTION INSPECTOR. THE INSPECTOR CAN REQUIRE SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES.
- ANY AREA TO BE USED FOR INFILTRATION OR PERVIOUS PAVEMENT (INCLUDING A 5-FOOT BUFFER) MUST BE SURROUNDED BY SILT FENCE PRIOR TO CONSTRUCTION AND UNTIL FINAL STABILIZATION OF THE SITE TO PREVENT SOIL COMPACTION AND SILTATION BY CONSTRUCTION ACTIVITIES.
- IF THE TEMPORARY CONSTRUCTION ENTRANCE OR ANY OTHER AREA WITH HEAVY VEHICLE LOADING IS LOCATED IN THE SAME AREA TO BE USED FOR INFILTRATION OR PERVIOUS PAVEMENT, 6" OF SEDIMENT BELOW THE GRAVEL SHALL BE REMOVED PRIOR TO INSTALLATION OF THE INFILTRATION FACILITY OR PERVIOUS PAVEMENT (TO REMOVE FINES ACCUMULATED DURING CONSTRUCTION).
- ANY CATCH BASINS COLLECTING RUNOFF FROM THE SITE, WHETHER THEY ARE ON OR OFF THE SITE, SHALL HAVE ADEQUATE PROTECTION FROM SEDIMENT. CATCH BASINS DIRECTLY DOWNSTREAM OF THE CONSTRUCTION ENTRANCE OR ANY OTHER CATCH BASIN AS DETERMINED BY THE CITY INSPECTOR SHALL BE PROTECTED WITH A "STORM DRAIN PROTECTION INSERT" OR EQUIVALENT.
- IF A SEDIMENT POND IS NOT PROPOSED, A BAKER TANK OR OTHER TEMPORARY GROUND AND/OR SURFACE WATER STORAGE TANK MAY BE REQUIRED DURING CONSTRUCTION, DEPENDING ON WEATHER CONDITIONS.
- DO NOT FLUSH CONCRETE BY-PRODUCTS OR TRUCKS NEAR OR INTO THE STORM DRAINAGE SYSTEM. IF EXPOSED AGGREGATE IS FLUSHED INTO THE STORM SYSTEM, IT COULD MEAN RE-CLEANING THE ENTIRE DOWNSTREAM STORM SYSTEM, OR POSSIBLY RE-LAYING THE STORM LINE.
- RECYCLED CONCRETE SHALL NOT BE STOCKPILED ON SITE, UNLESS FULLY COVERED WITH NO POTENTIAL FOR RELEASE OF RUNOFF.

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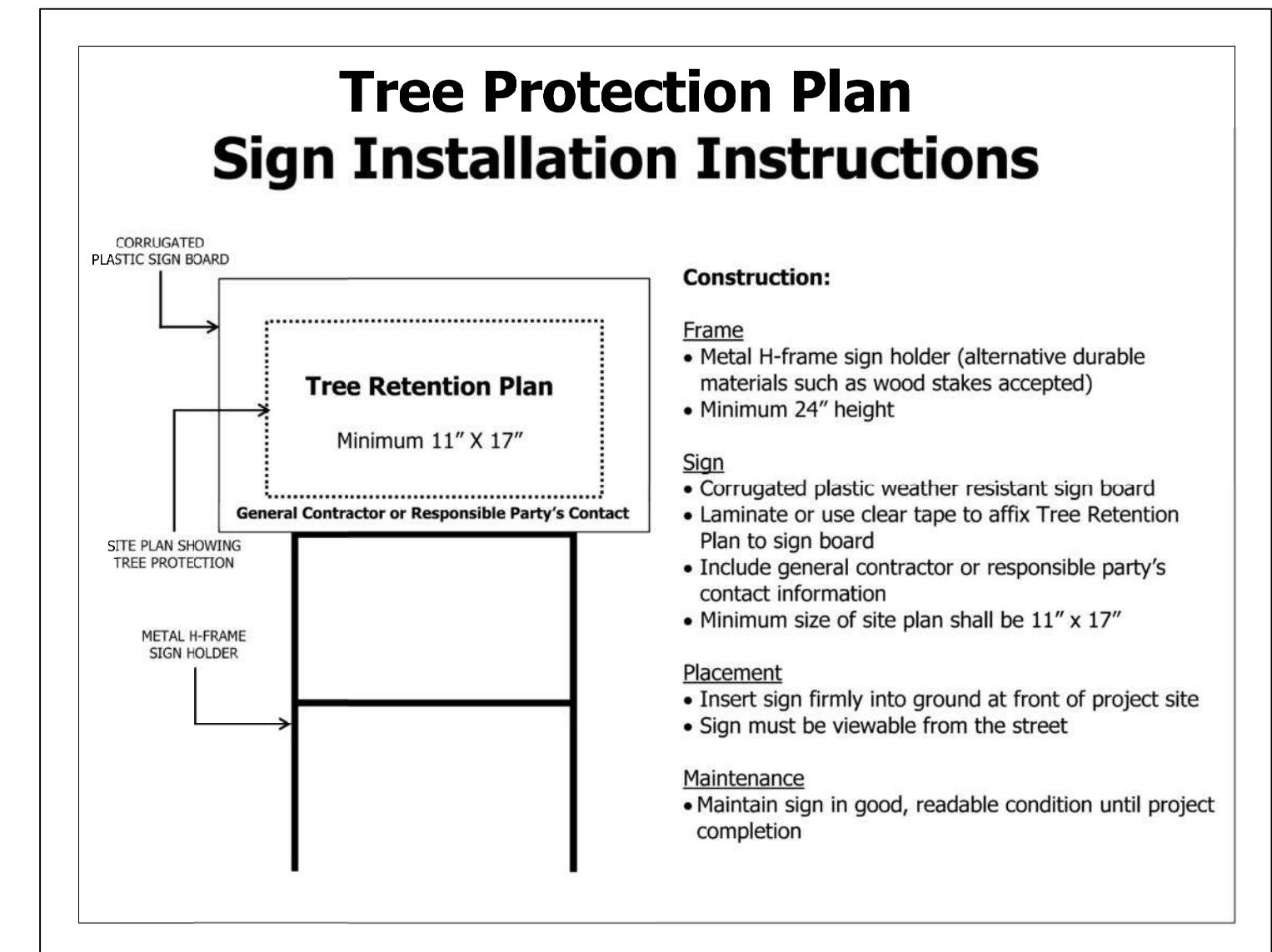
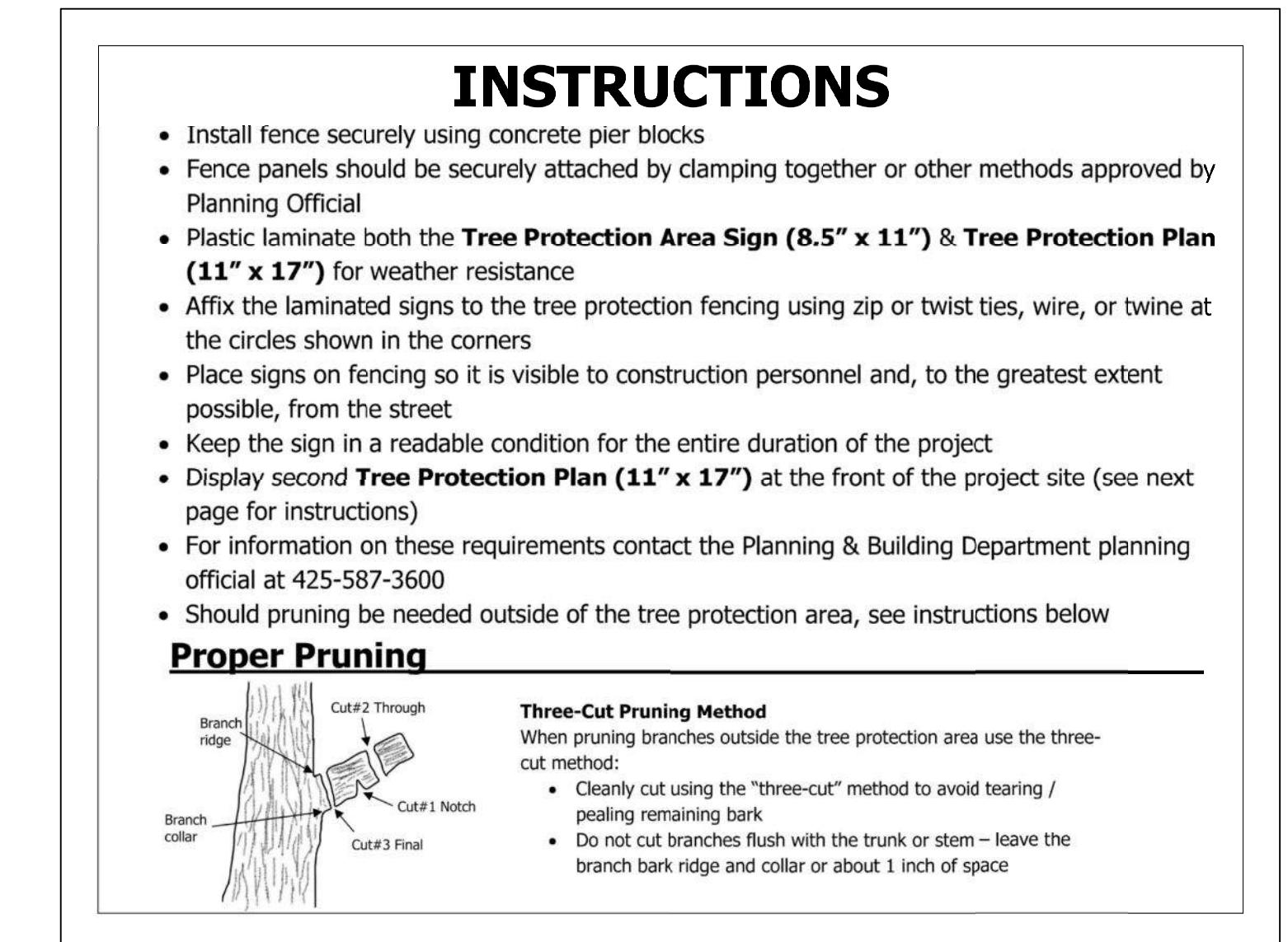
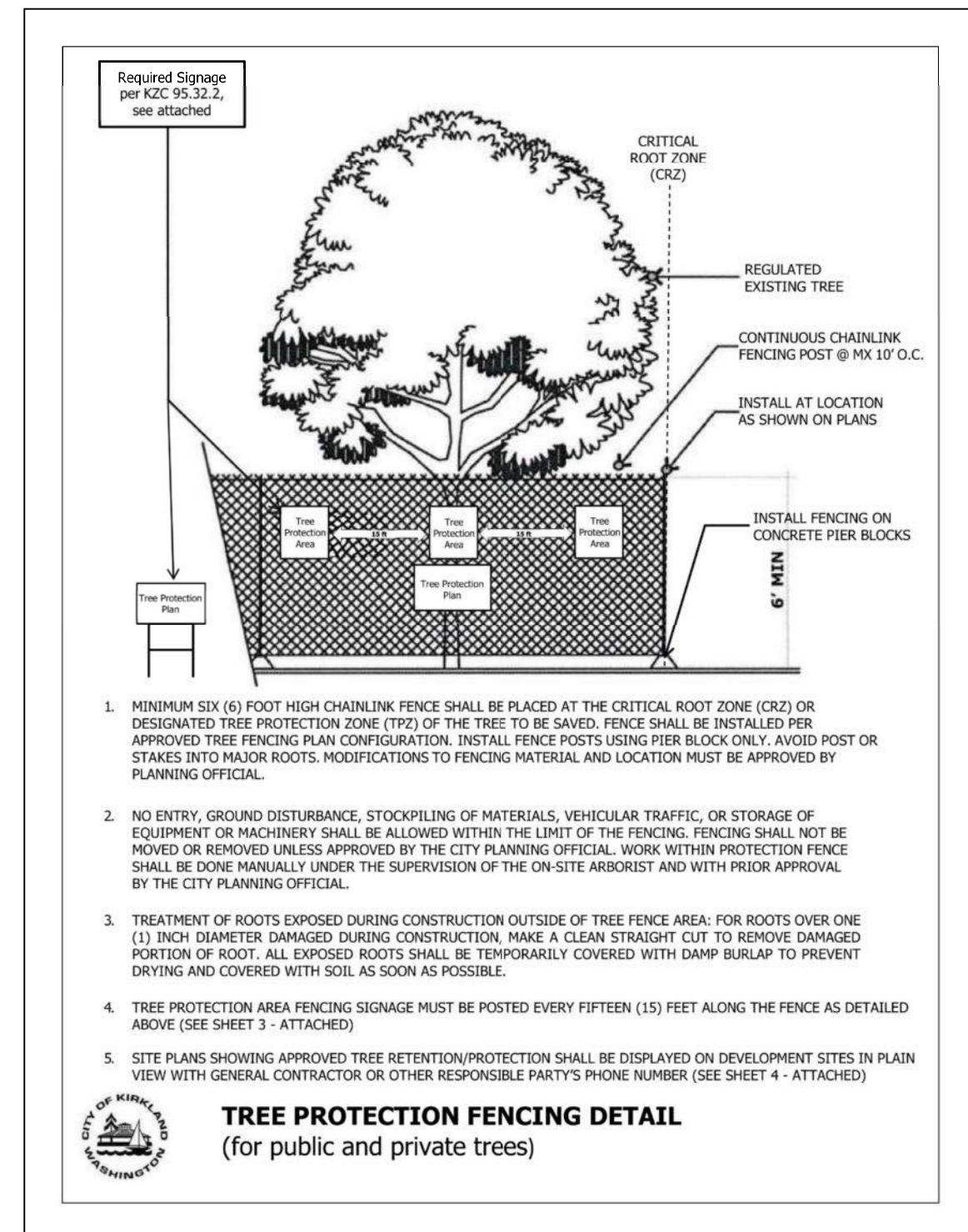
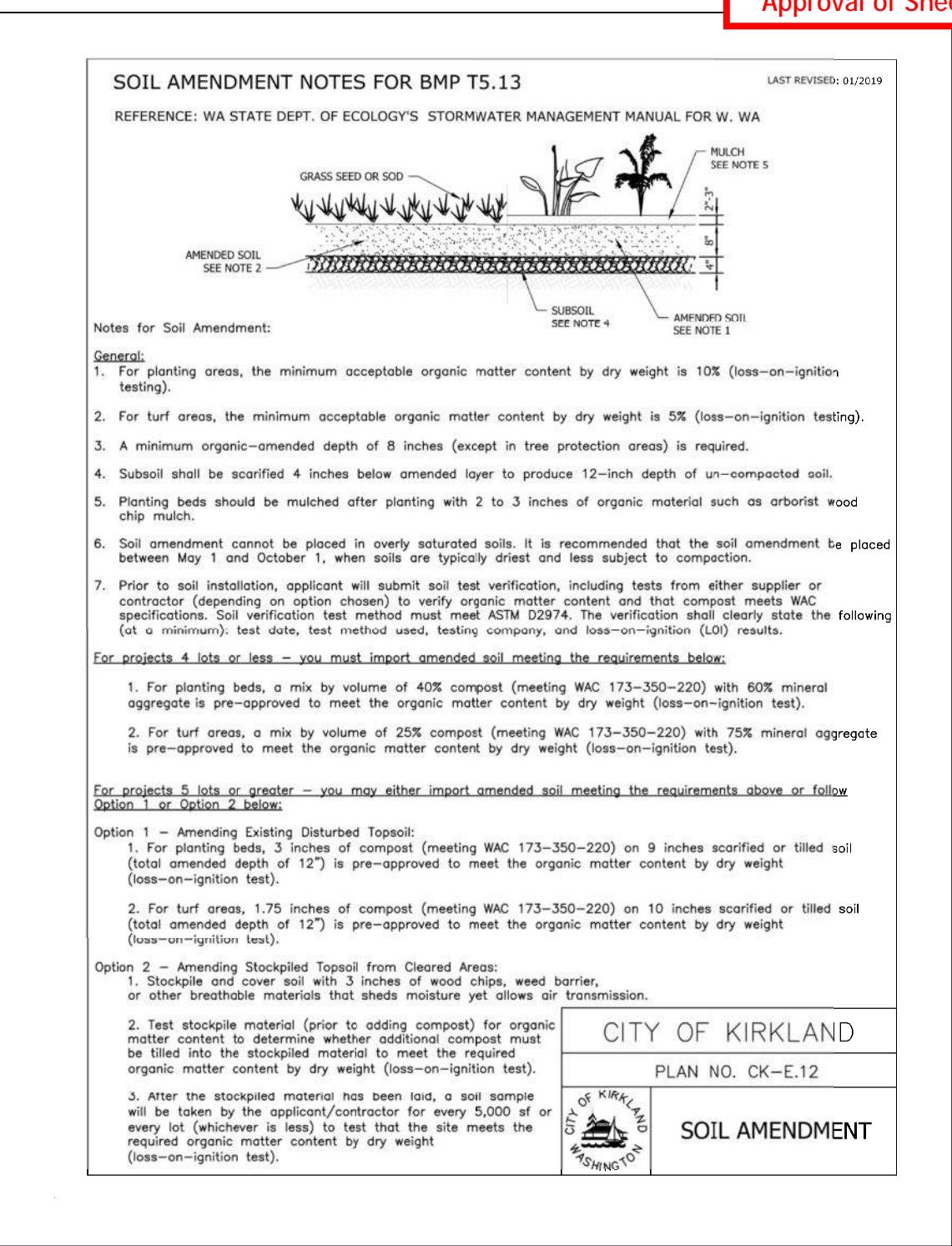
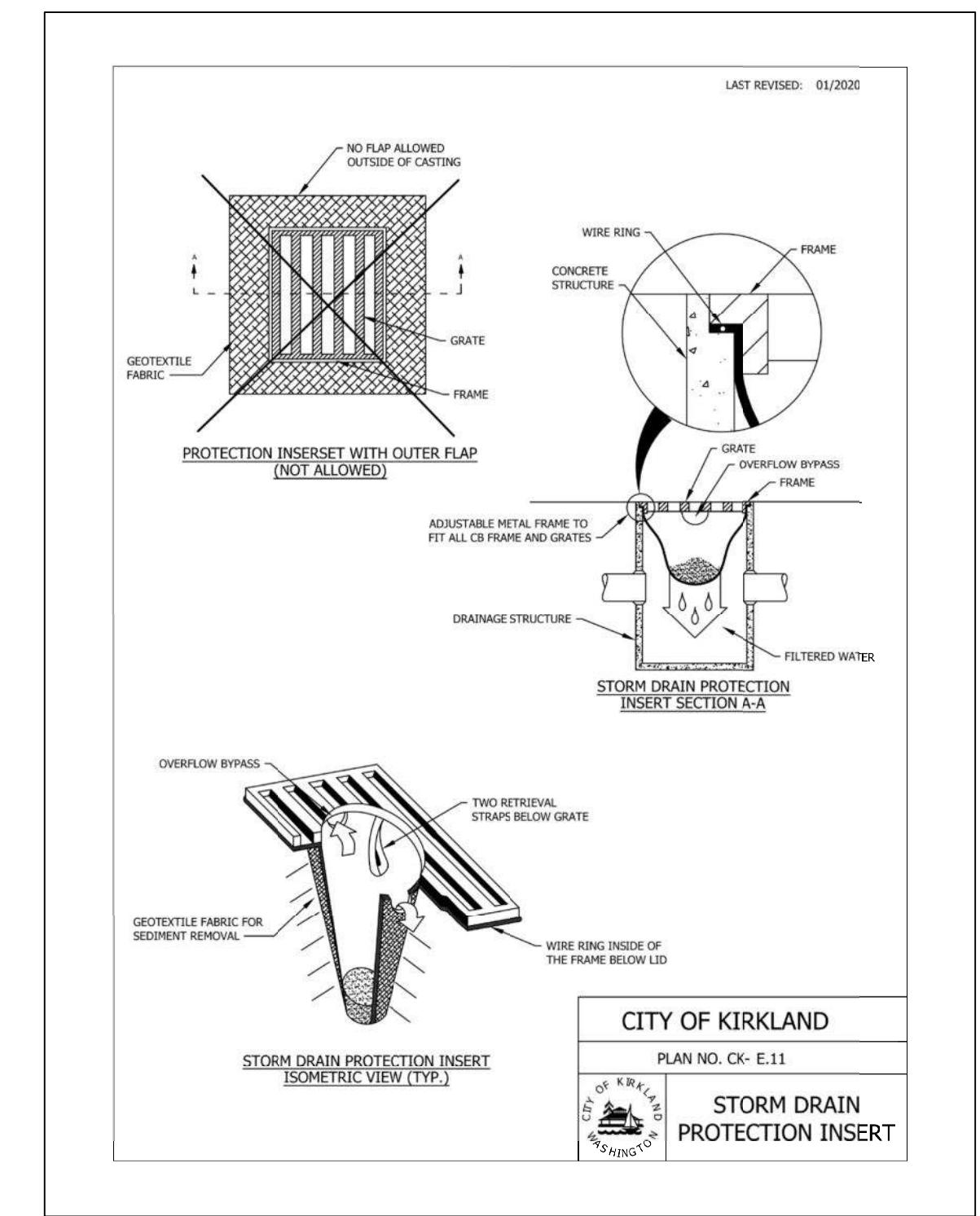
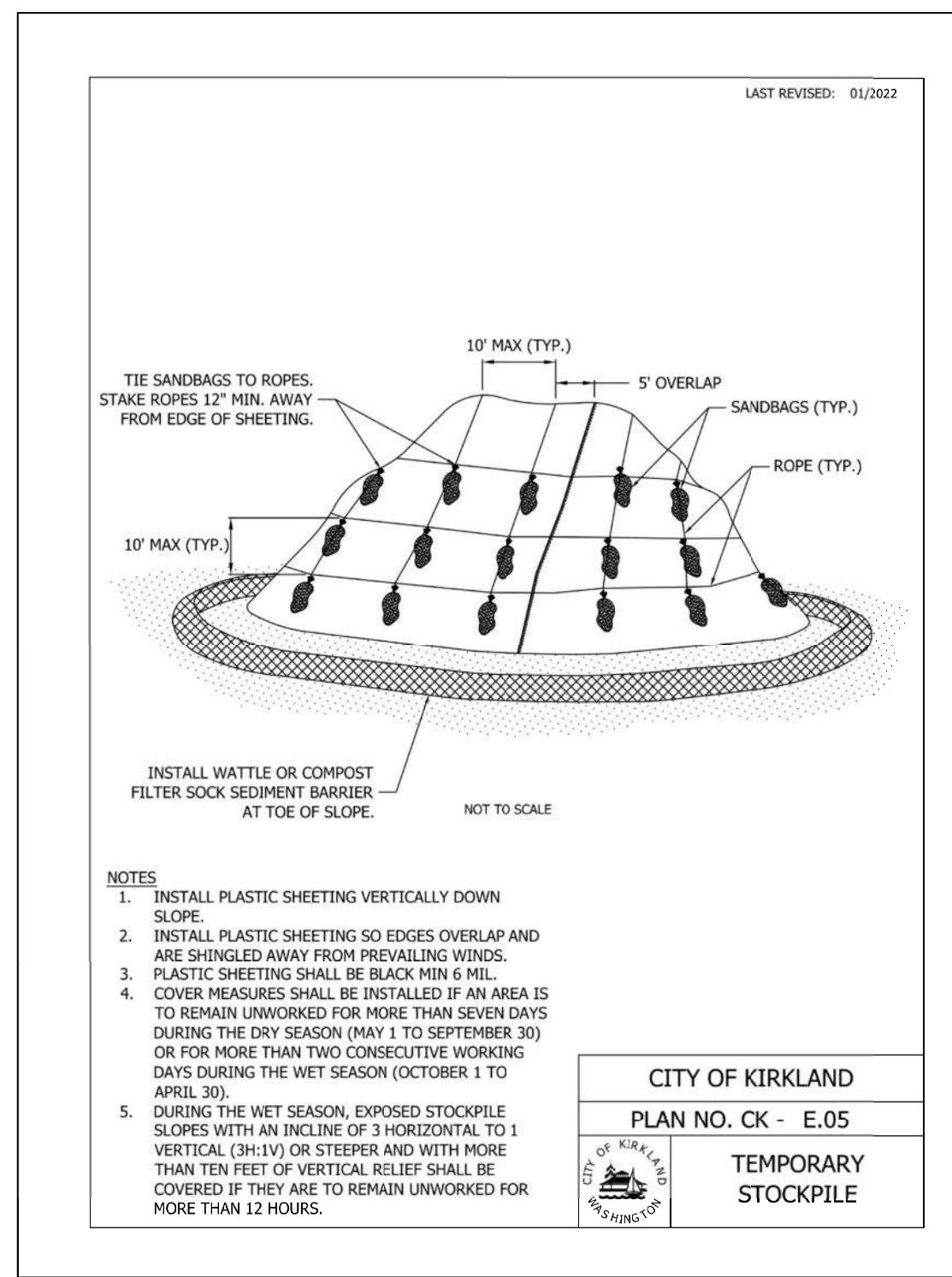
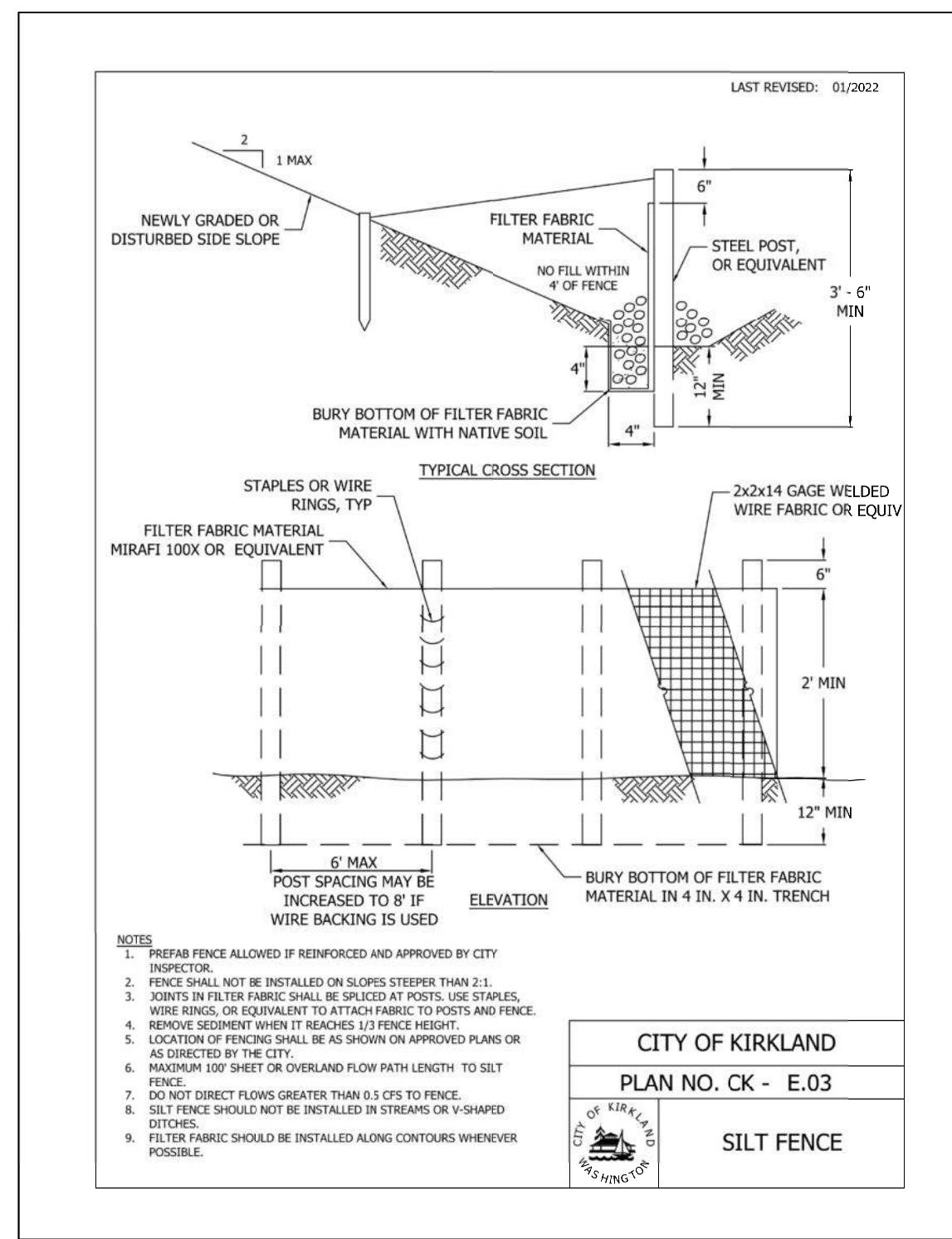
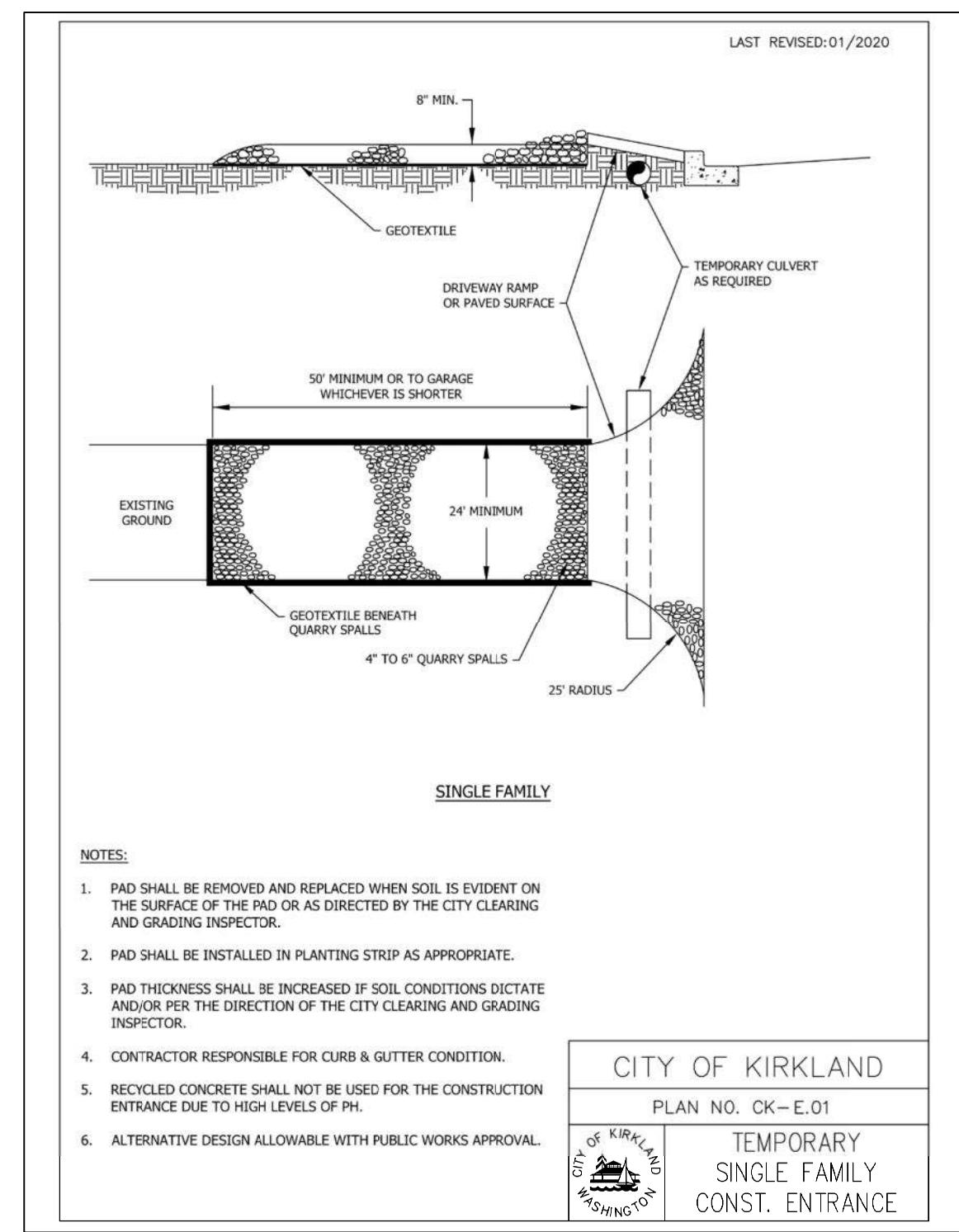
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12/10/2025

DESIGNED BY:  
B.A.  
DRAWN BY:  
B.A.  
ADDRESS:  
10341 NE 141ST PL  
KIRKLAND, WA 98034

SHEET TITLE:

ESC PLAN NOTES

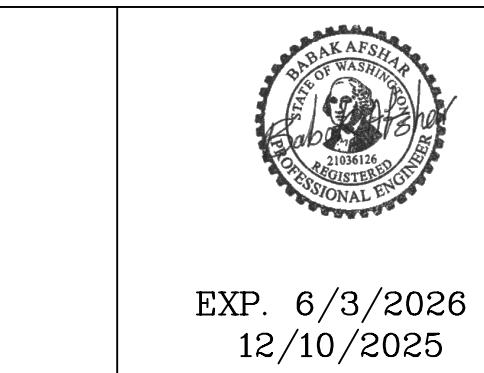
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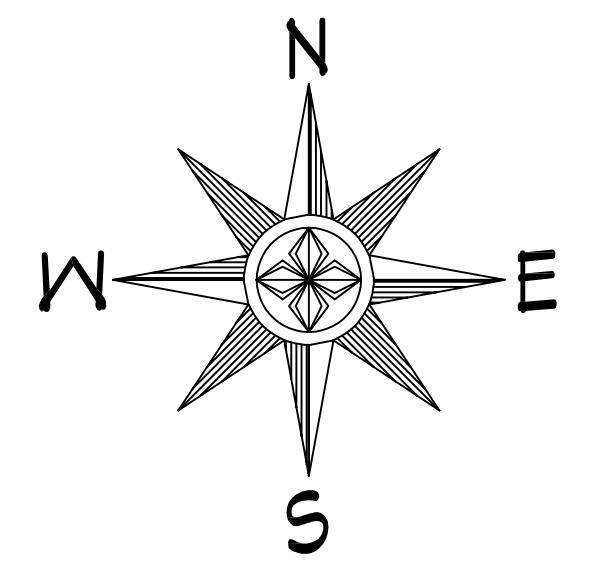


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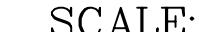
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ESC PLAN DETAILS

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C4.0  
SHEET:



SCALE: 1" = 10'



10' scale bar

10 0 10 20

SCALE IN FEET

# LEGEND

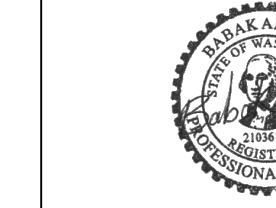
- 田 WATER METER
- ⊗ SANITARY SEWER CLEANOUT
- ☰ STREET STORM DRAIN CATCH BASIN
- ◎ DOWNSPOUT
- ◎ DRAIN POP-UP Emitter
- YARD DRAIN CATCH BASIN
- w — WATER LINE
- ss — UNDERGROUND SEWER LINE
- sd — STORM DRAIN PIPE
-  CONCRETE
-  TREE

## NOTES:

1. BASED ON THE SOIL SURVEY WEBSITE, THE SOIL TYPE IS KITSAP SILT LOAM WITH AN INFILTRATION RATE OF LESS THAN 0.2 IN/HR.  
NOTE: BASED ON THIS RATE BIORETENTIONS AND INFILTRATION BMPs ARE INFEASIBLE.
2. THERE IS NOT ENOUGH LENGTH AVAILABLE FOR DISPERSION.  
NOTE: THE AVAILABLE AREA DOWNSLOPE DOES NOT PROVIDE THE MINIMUM REQUIRED DISPERSION LENGTH AS OUTLINED IN THE KING COUNTY SURFACE WATER DESIGN MANUAL (KCSWDM). THEREFORE, DISPERSION BMPs ARE NOT FEASIBLE FOR THIS SITE.
3. THE FEASIBLE BMP IS A PERFORATED PIPE CONNECTION  
NOTE: GIVEN THE SITE CONSTRAINTS AND SOIL LIMITATIONS, A PERFORATED PIPE SYSTEM CONNECTED TO A TIGHTLINE DISCHARGE OR AN APPROVED DOWNSTREAM FACILITY IS CONSIDERED THE MOST PRACTICAL OPTION FOR STORMWATER MANAGEMENT.
4. THE MINIMUM TRENCH LENGTH REQUIRED IS 10 FEET.



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EXP. 6/3  
1/8/20

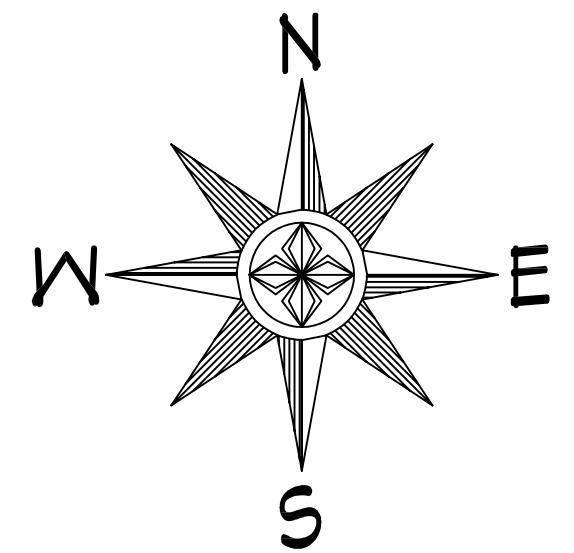
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B.A	AGUILAR ADDITION
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SHEET 1

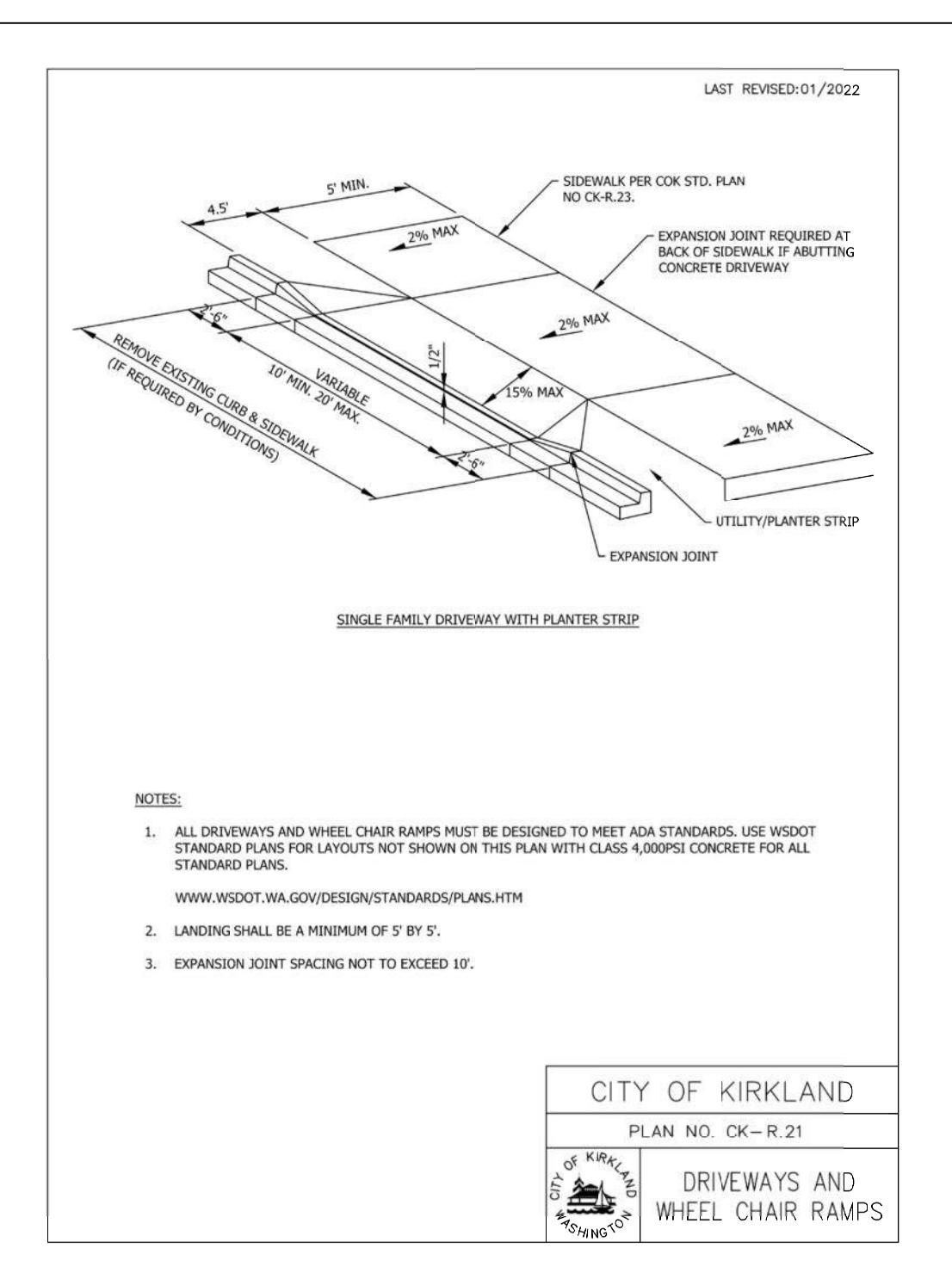
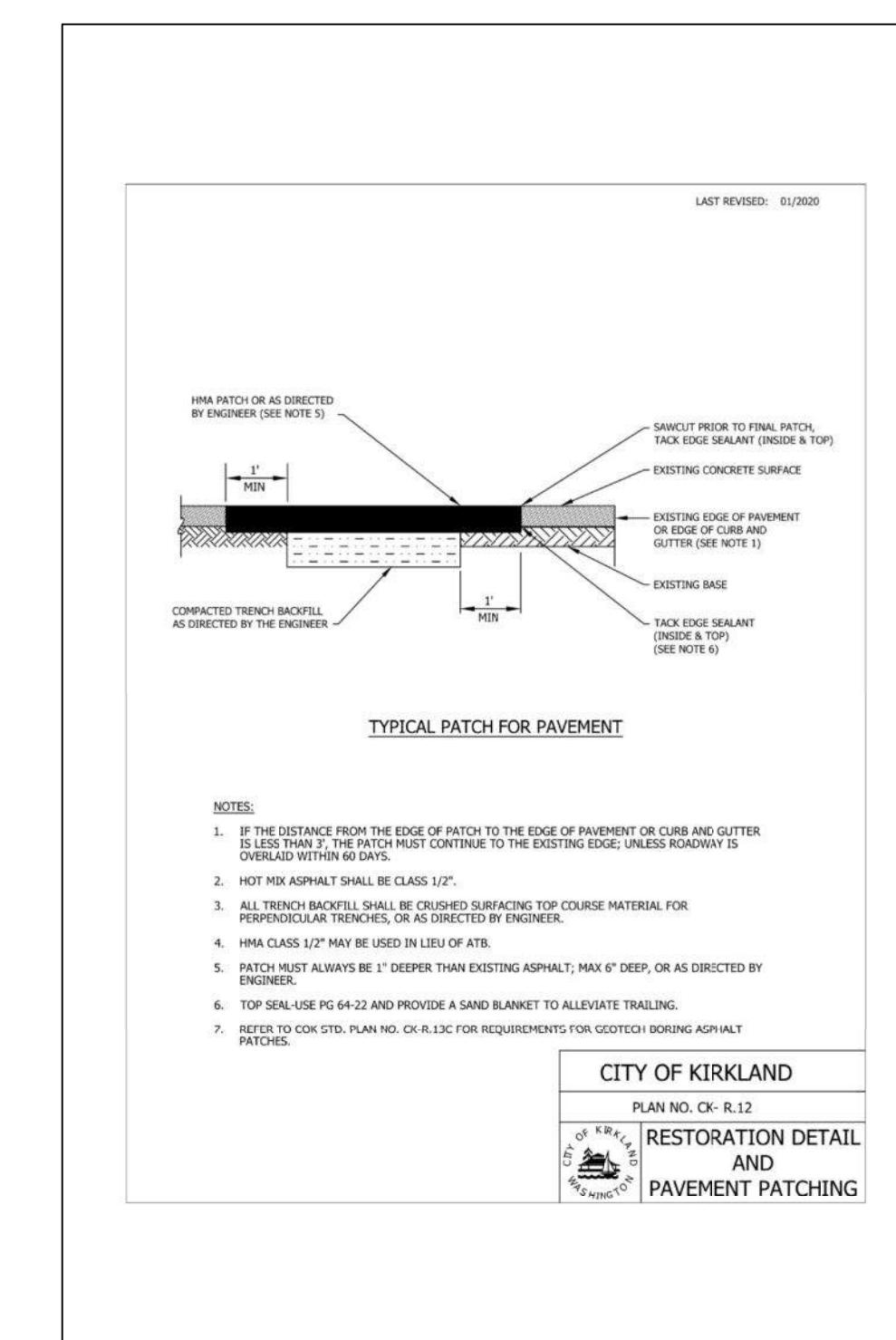
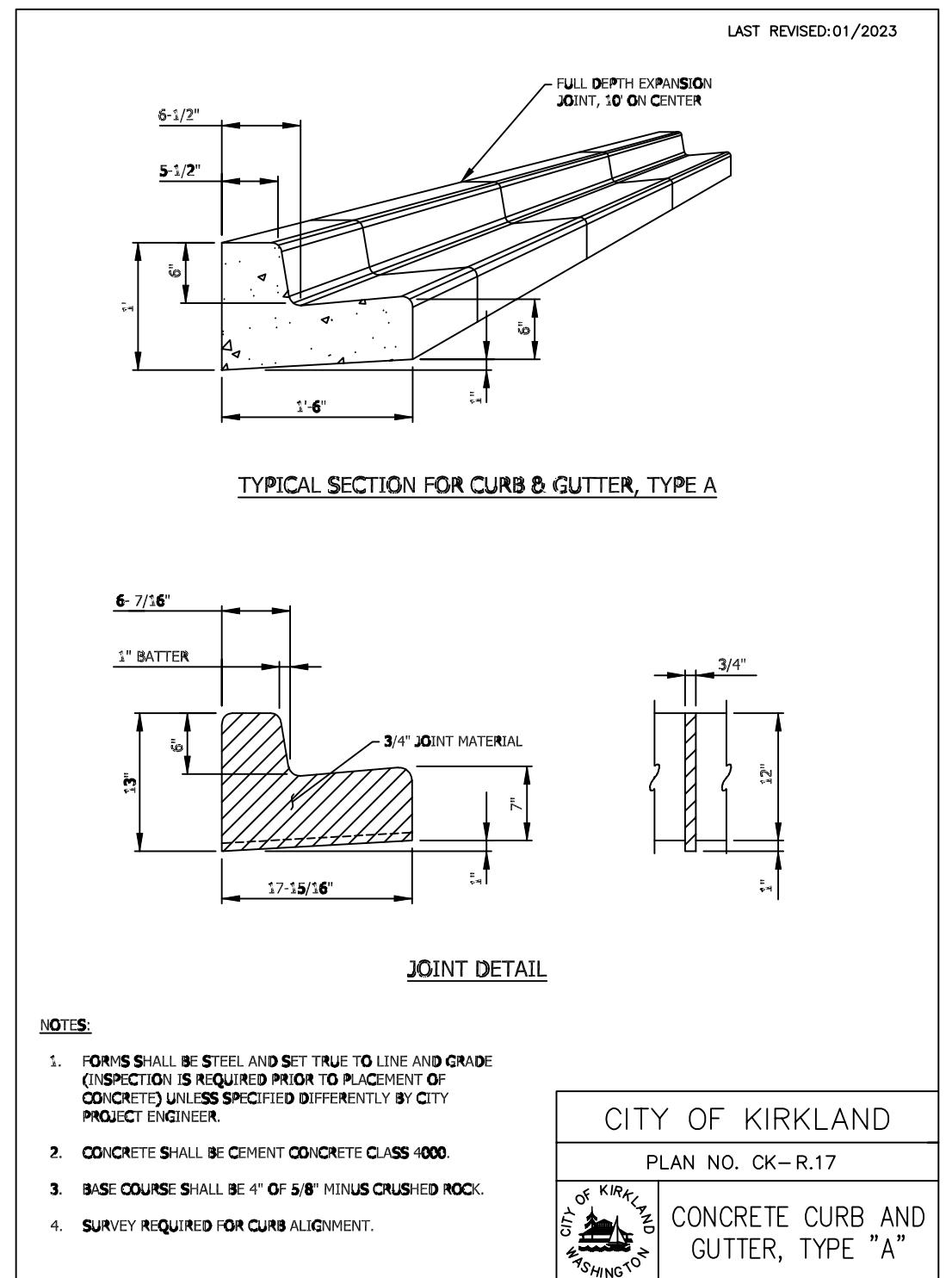
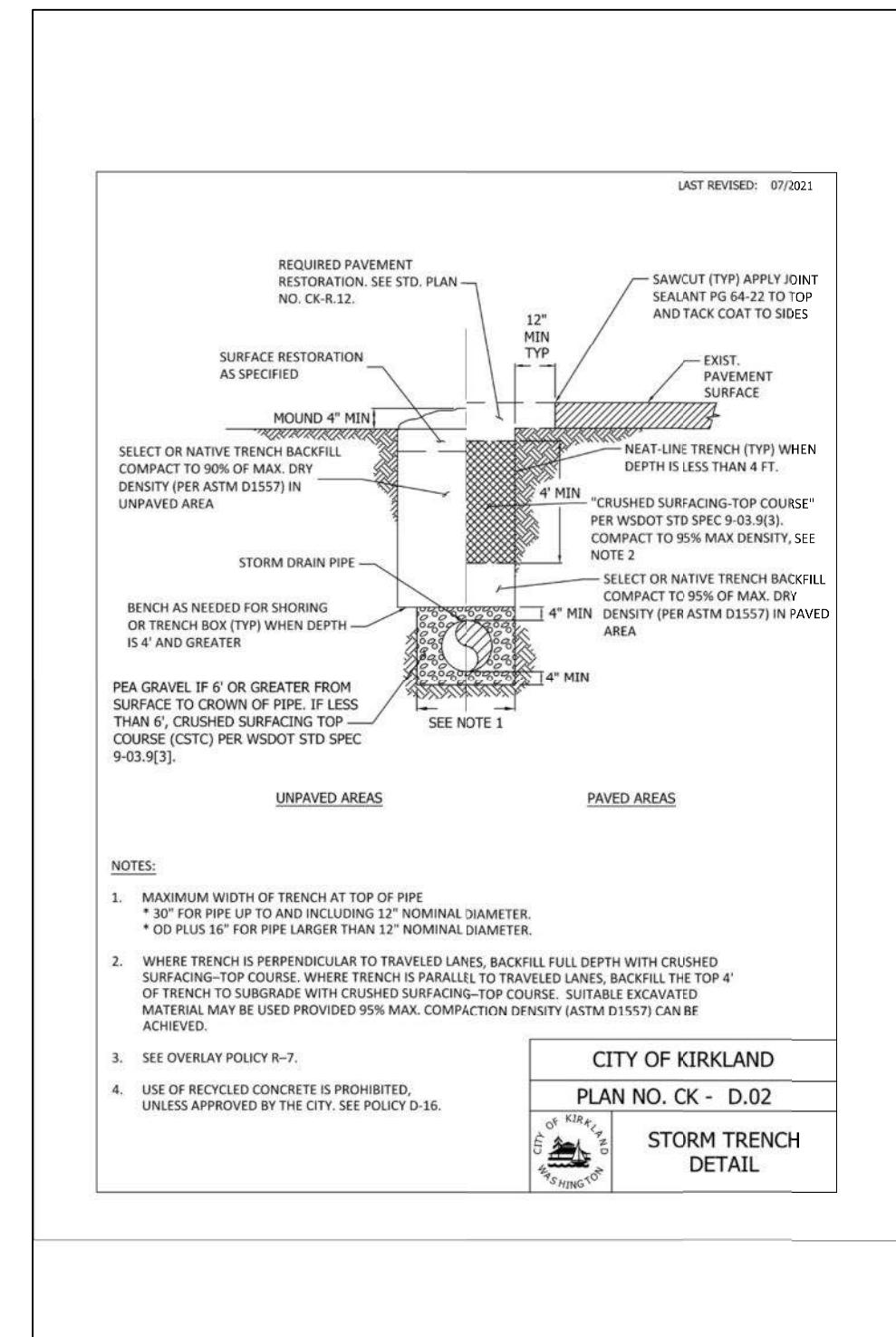
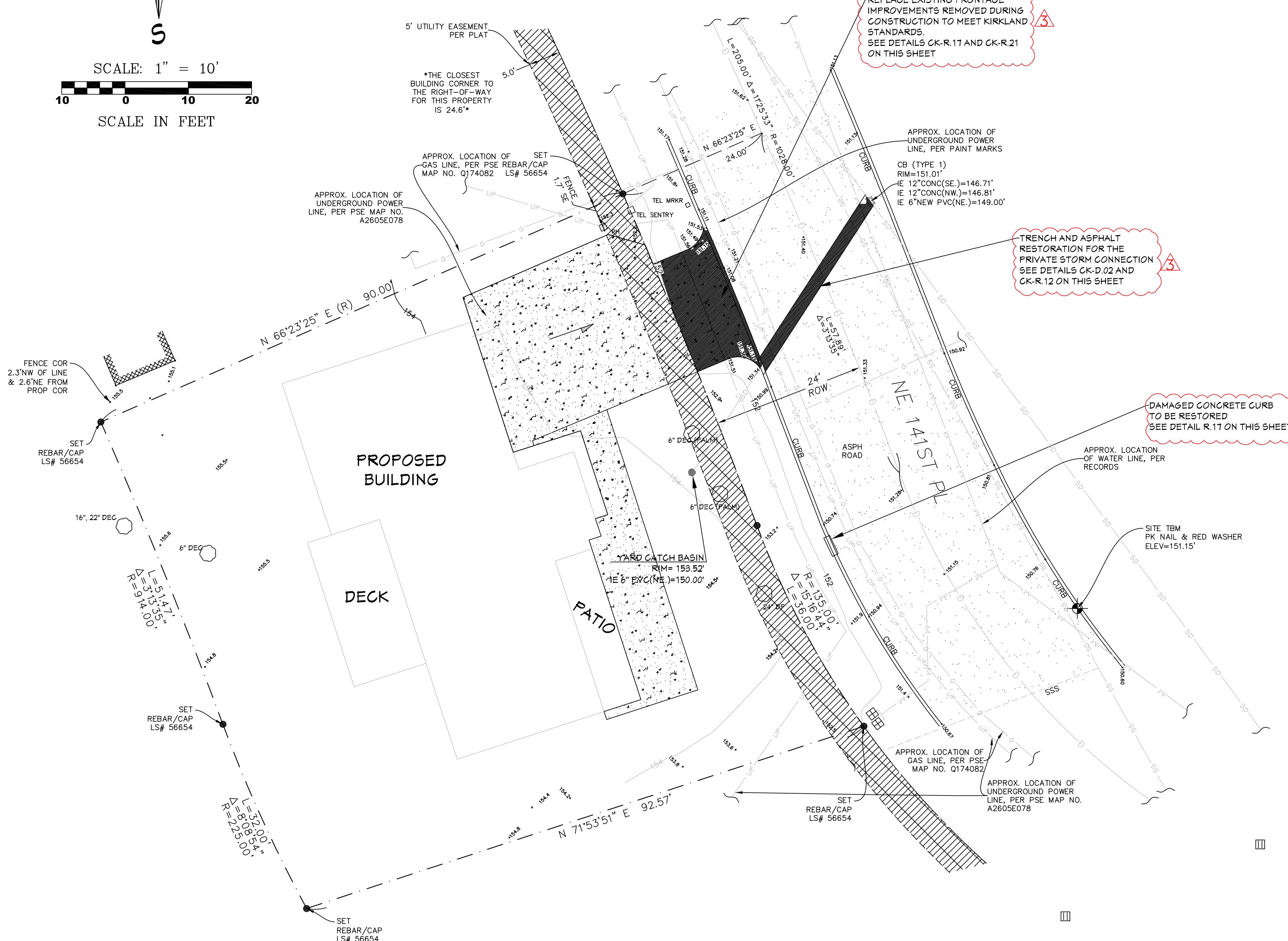
# DRAINAGE PLAN

SHEET NO:  
**C5.0**



SCALE: 1" = 10'

SCALE IN FEET



Repair and/or replace any public improvements impacted by demolition or construction activities, including but not limited to adjacent curb/gutter, sidewalk panels, landscaping, electric or communication conduits and boxes, storm drains, and other utilities.

POST-ISSUANCE 2

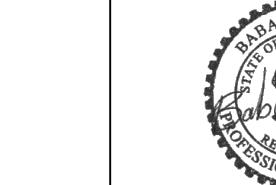
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BSF21-07891

Approval of Sheets 6/6

NO.	Date	Revesion/Issue
2	12/10/2025	Revision 2
3	1/8/2026	Revision 3



12569 SE 72nd ST  
NEWCASTLE, WA 98056



EXP. 6/3/202  
1/8/2026

DESIGNED BY:	JOB TITLE:
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SHEET TIT

# RE-BUILD DRIVEWAY CURB CUT

SHEET NO: 6

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## SHEET: