### **AVERAGE BUILDING ELEVATION**

### (PRIMARY HOUSE)

•		•	
ш	WALL	EXIST.	FINISHED
#	LENGTH	GRADE	GRADE
Α	9.3	278.6	278.2
В	45.6	277.6	277.6
С	32.5	279.7	280.0
D	16.0	281.0	280.5
E	3.0	281.0	280.5
F	15.0	280.6	280.5
F1	6.5	280.8	280.5
F2	2.0	281.0	280.5
G	25.2	281.4	280.5
Н	21.0	281.8	280.5
I	22.0	282.2	281.0
J	8.9	281.2	280.5
K	6.1	280.8	280.5
L	2.7	280.4	280.0
M	14.0	279.8	279.8
N	4.9	279.4	279.4
0	9.7	279.2	279.2
Р	7.0	279.4	279.4
A.B.E. (L	JSE EACH LO	WER NUMBER	R) 279.7

("ORIGINAL GRADE 277.6" IS USED FOR 'B')

A.B.E. = (W1 x E1 + W2 x E2 + ...) / (W1 + W2 +...) = 279.7

MAX. STRUCTURAL HT. ALLOWED = 279.7 + 30 = 309.7' (SEE SHEET A5, A6)

### **AVERAGE BUILDING ELEVATION**

### (ADU)

11	WALL	EXIST.	FINISHED
#	LENGTH	GRADE	GRADE
W	21.5	281.5	280.5
Χ	19.8	282.0	280.5
Υ	21.5	281.5	280.5
Z	19.8	280.5	280.5
A.B.E. (L	ISE EACH LO	WER NUMBER	R) 280.5

A.B.E. = (W1 x E1 + W2 x E2 + ...) / (W1 + W2 +...) = 280.5

MAX. STRUCTURAL HT. ALLOWED = 280.5 + 30 = 310.5' (SEE SHEET A9)

### **LEGAL DESCRIPTION**

LOTS 20, 21 AND 22 IN BLOCK 9 OF EAST SEATTLE ADDITION, AS PER PLAT RECORDED IN VOLUME 3 OF PLATS, PAGE 22 AND 23, IN KING COUNTY, WASHINGTON.

### CODE COMPLIANCE

2018 INTERNATIONAL RESIDENTIAL CODE 2018 INTERNATIONAL MECHANICAL CODE 2018 UNIFORM PLUMBING CODE 2018 INTERNATIONAL FIRE CODE 2018 NATIONAL ELECTRICAL CODE 2018 WASHINGTON STATE ENERGY CODE

(ALL CODES ABOVE INCLUDE WASHINGTON STATEWIDE AMENDMENTS)

### **ABBREVIATIONS**

BLK'G	BLOCKING	HORIZ	HORIZONTAL
Ģ	CENTER LINE	MAX	MAXIMUM
ĊLR	CLEAR	MFR	MANUFACTURER
CONT	CONTINUOUS	MIN	MINIMUM
CS	CASEMENT WINDOW	o/	OVER
DBL	DOUBLE	O.C.	ON CENTER
DS	DOWNSPOUT	SD	SMOKE DETECTOR
EL	ELEVATION	SG	SAFETY GLASS
EQ	EQUAL	SF	SQUARE FEET
EXIST	EXISTING	SIM	SIMILAR
FTG	FOOTING	SLD	SLIDING WINDOW
FX	FIXED WINDOW	TYP	TYPICAL
HDR	HEADER	UNO	UNLESS NOTED OTHERW
HDWD	HARDWOOD	w/	WITH
HGR	HANGER		

### PROJECT INFORMATION

ZONING DISTRICT	R-8.4
PROPERTY OWNER	YU HAN TSENG
PARCEL NUMBER	217450-1915
LOT AREA	8,942 S.F
OCCUPANCY CLASSIFICATION	R-3 / L
CONSTRUCTION TYPE	\/_F

### LOT SLOPE CALCULATION

LOT SLOPE (11 / 124.5)	8.8 %
HORIZ. DISTANCE BETWEEN HIGH AND LOW POINTS	124.5'
ELEVATION DIFFERENCE	11'
LOWEST ELEVATION POINT	273.5'
HIGHEST ELEVATION POINT	284.5'

### **LOT COVERAGE**

### **HARDSCAPE**

MAX. HARDSCAPE AREA	9 %
WALKWAY	74 S.F.
WINDOW WELLS	112 S.F.
TOTAL HARDSCAPE AREA	186 S.F. (2.1%> OK!)

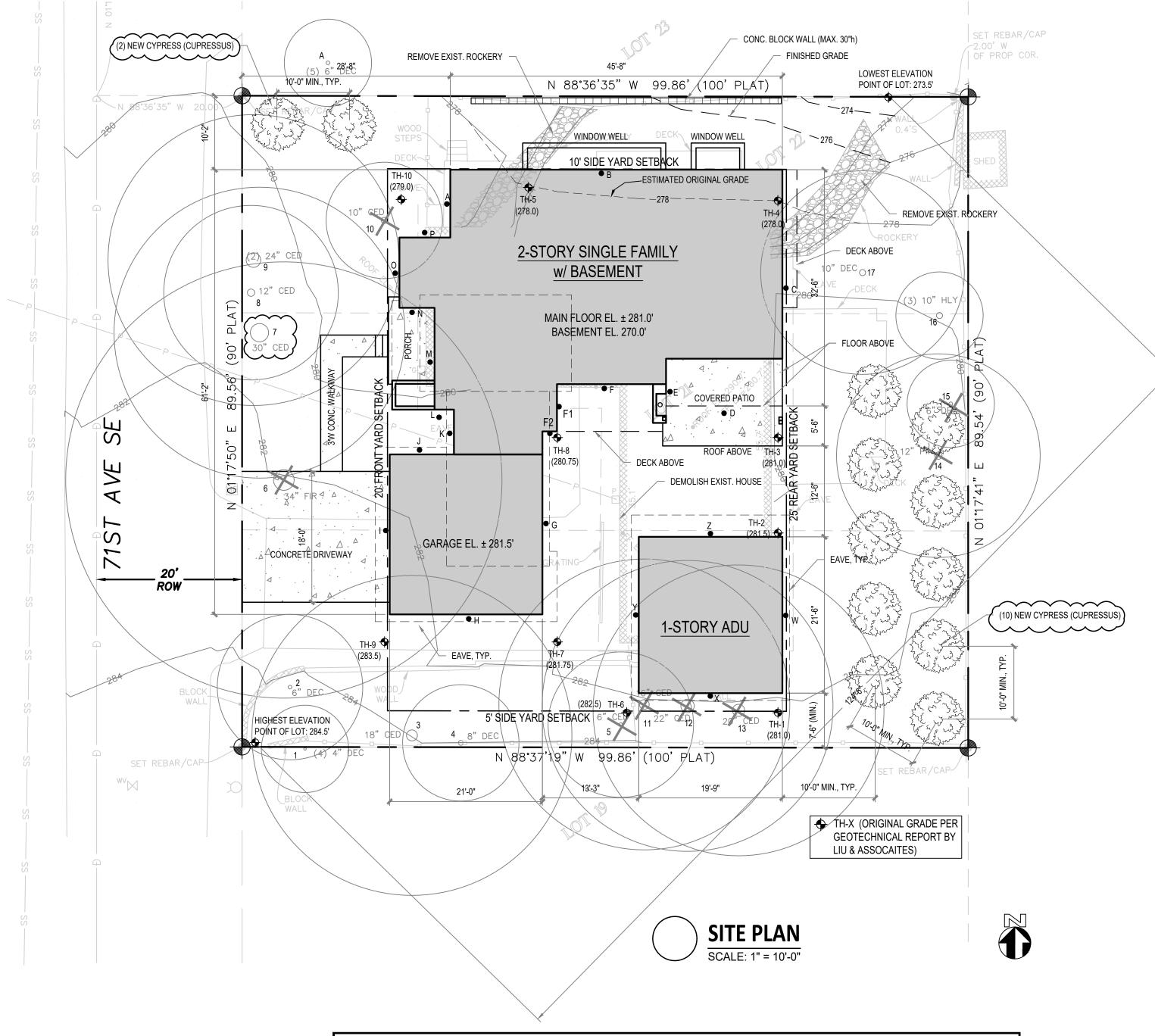
### **GROSS FLOOR AREA (GFA)**

MAX. GROSS FLOOR AREA	45% (40 % + 5 % ADU)
BASEMENT	1,520 S.F.
BASEMENT (EXCLUDED FROM GFA. SEE SHEET A	- 1,440 S.F.
MAIN FLOOR	1,520 S.F.
UPPER FLOOR	1,537 S.F.
ADU	424 S.F.
GARAGE	462 S.F.
TOTAL ABOVE GROUND FLOOR AREA	4,023 S.F.
PROPOSED GFA	44.9 % (OK!)
TOTAL FINISHED FLOOR AREA OF PRIMARY RESI	DENCE 4,510 S.F.
ADU	424 S.F.
TOTAL FINISHED FLOOR AREA	4,961 S.F.

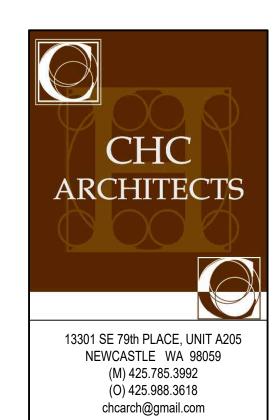
NFPA 13D FIRE SPRINKLER SYSTEM AND SEPARATE PERMIT ARE REQUIRED. NFPA 72 CHAPTER 29 MONITORED FIRE ALARM REQUIRED DUE TO ROAD WIDTH. SEPARATE PERMIT REQUIRED.

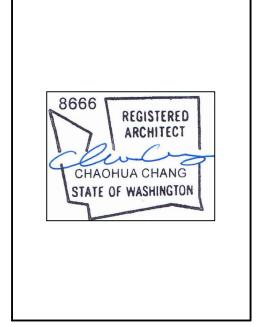
### ~~~~~ **DEFERRED SUBMITTAL**

EXTERIOR METAL STAIR ON UPPER DECK ~~~~~



	Site:	Tseng F	Resider	ice, 2720	71st Ave	SE, Me	rcer Is	sland			Date:	8/11/2017		
ree #	Species	DBH	Height	Crown	Vigor	Viable					LOD**	Defects	Status***	NUMBER OF REPLACEMEN
		(inches)	(feet)	Ratio (%)			N	S	Е	W	(feet)		Status	TREES REQUIRED
<u>'</u>				•		On Sit	te Tre	es	•					
1	Plum	9*	35	90	Good	Yes	15	13	4	18	6			1
2	Cherry	10	35	40	Fair	Yes	12	2	2	12	6	Gumosis		1
3	Ash	20	71	80	Good	Yes	15	15	12	18	6			1
4	Red cedar	9	28	70	Fair	Yes	8	2	10	4	4	Dead limb tips		]
5	Douglas-fir	7	43	40	Good	Yes	8	4	0	14	4		Remove	
6	Douglas-fir	25	103	60	Good	Yes	20	22	24	25	10	Two spike knots	Remove	3
7	Sequoia	22	66	60	Good	Yes	4	12	12	12	10	Forks at 6-feet with included bark		
8	Sequoia	14	70	60	Good	Yes	0	2	8	12	10		~~	
9	Sequoia	30*	70	60	Good	Yes	14	6	12	12	10	Included bark 0-4-feet		
10	Red cedar	12	40	70	Good	Yes	8	9	12	9	4		Remove	1
11	Red cedar	13	58	60	Good	Yes	15	18	4	14	4		Remove	2
12	Red cedar	23	76	70	Good	Yes	12	16	10	6	4		Remove	2
13	Red cedar	21	70	70	Good	Yes	15	12	16	8	4		Remove	2
14	Austrian pine	15	62	40	Fair	Yes	3	19	12	11	4		Remove	2
15	Vine maple	7*	14	40	Poor	No	6	5	4	9	4	Severe decay	R. Remove	
16	Holly	19*	16	80	Good	Yes	6	6	2	10	4			1
17	Plum	100	20	70	Fair	Yes	14	9	8	14	4	Bole decay		
							Off S	ite Tr	ees					TOTAL: 12
Α	Japanese maple	14*	16	80	Good	Yes	14	16	14	14	10			PROPOSED NEW TREES:
В	Red cedar	28	70	80	Good	Yes	16	14	16	18	10			
														1
_	*DBH	Multiple	Trunks c	onverted to	equivalent	DBH per	ISA Gui	de		_				





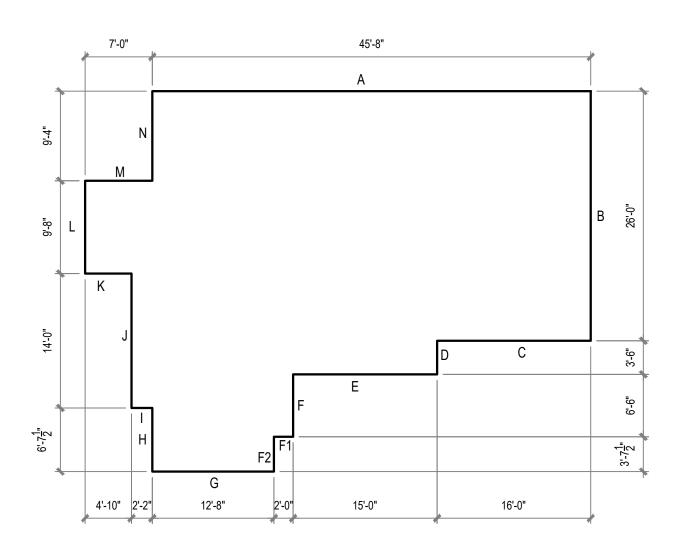
### SE 98040 ENC AVA 2720 718 MERCER 20 2

NUMBER DATE DESCRIPTION OF REVISIONS 08-05-2021 PERMIT PLANS 01-22-2022 RESPONSE TO CITY COMMENT #1

03-23-2022 RESPONSE TO CITY COMMENT #2

SITE PLAN

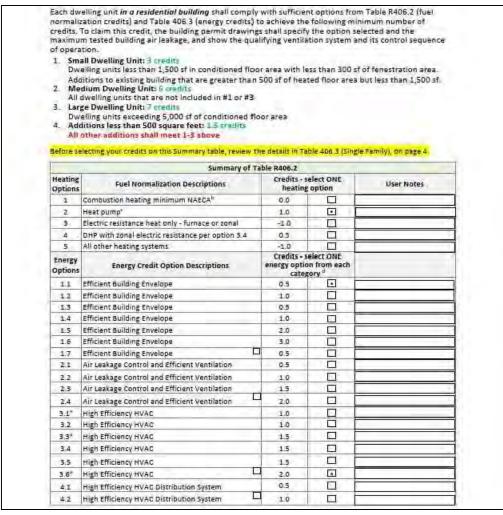
JOB NUMBER



WALL	WALL	COVERAGE	1 4 0
SEGMENT	LENGTH (L)	(C)	LxC
Α	45.6	86.6 %	39.5
В	26.0	90.0 %	23.4
С	16.0	100 %	16.0
D	3.5	100 %	3.5
E	15.0	100 %	15.0
F	6.5	100 %	6.5
F1	2.0	100 %	2.0
F2	3.7	100 %	3.7
G	12.7	100 %	12.7
Н	6.7	100 %	6.7
1	2.1	100 %	2.1
J	14.0	100 %	14.0
K	4.8	100 %	4.8
L	9.7	100 %	9.7
М	7.0	93.9 %	6.6
N	9.3	93.6 %	8.7
TOTAL	184.6		174.9

PORTION OF EXCLUDED BASEMENT FLOOR AREA = 1,520 x (174.9 / 184.6) = 1,440 S.F.

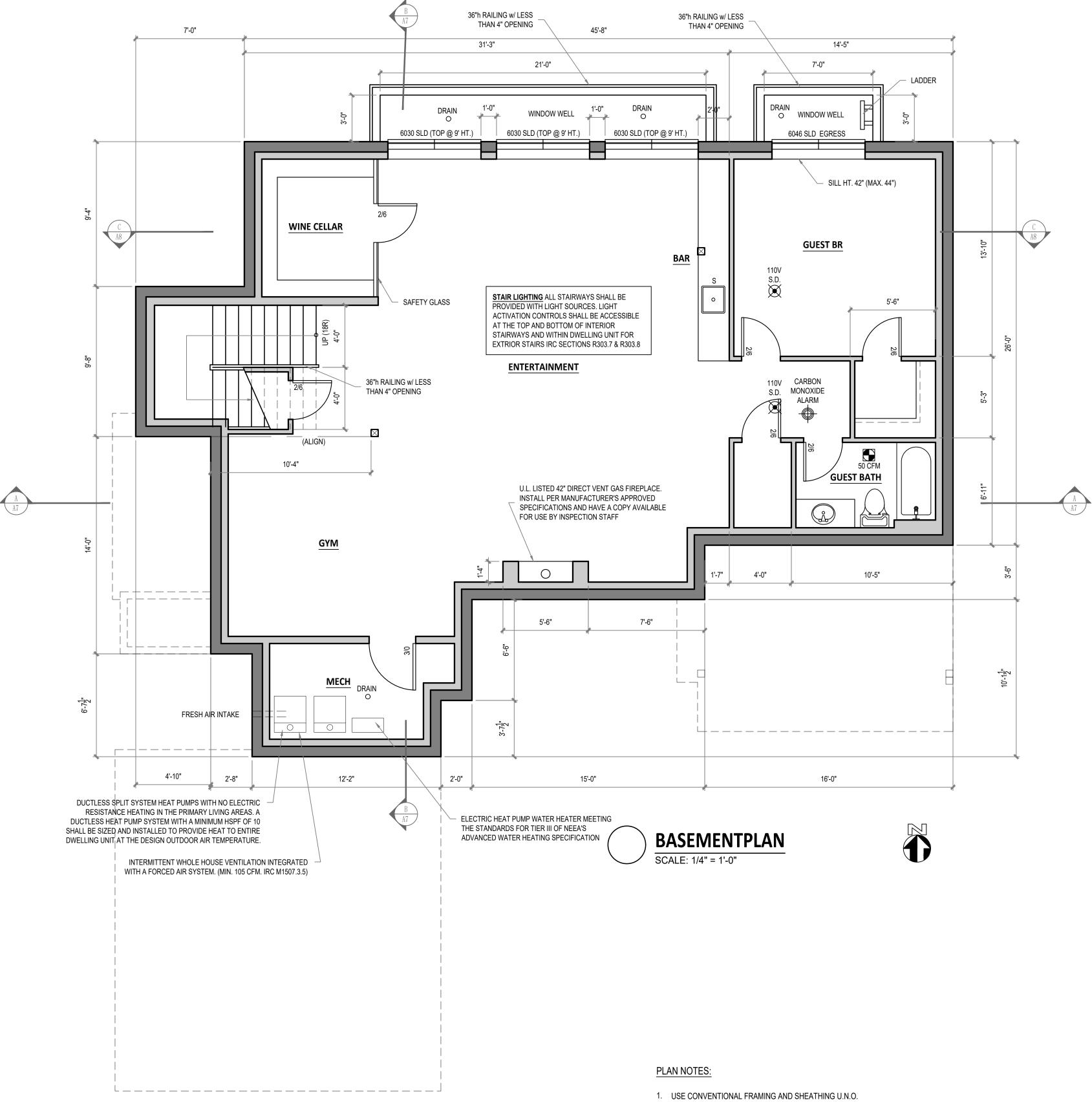
(SEE BUILDING ELEVATIONS AND GEOTECHNICAL ENGINEER'S 'ORIGINAL GRADE DETERMINATION REPORT' FOR GRADES)



	Prescriptive Ener	Washington State Energy Code Compliance for mily – New & Addition	All Climate Zon	es in W		Version 1
	These requirements apply		s, including deta	ched o	ne- and two-	
	Project Information		d yourself of the	440	ormation	
	Project information		Con	tuct inje	rmation	
		-				
add Pro	tructions: This single-family pro proporate the minimum values li litional credits are checked as cl vide all information from the folk	sted. Based on the size of thosen by the permit apporting to be a size of the permit apporting to be as building to be a size of the size	of the structure, plicant. permit drawings:	the app	ropriate num 402.1 - Insulat	iber of
	estration Requirements by Comp thorized Representative	oonent, Table R406.2 - Fu	el Normalization	Date	and 406.3 - Er	iergy Crec
				-	1	
_	7	All Climate Zones (Tat	le R402.1.1)			
-	estration U-Factor II	R-Value *			U-Factor *	
-	light U-Factor b	n/a		0.50		
-		n/a	77		n/a	
	zed Fenestration SHGC **	49			0.026	
-	ling *	21 int			0.056	
Flor	PV TT RESULTATIONS OF THE PROPERTY OF THE PROP	30			0.029	
	ow Grade Wall 1th	10/15/21 int + 78			0.042	
200	p d R-Value & Depth	10.2 ft			n/a	
	R-values are minimums. U-factors than the label or design thickness Table A101.4 shall not be less tha The fenestration U-factor column	of the insulation, the con in the R-value specified in	pressed R-value o			
c	"10/15/21 +5TB" means R-10 con the interior of the wall, or R-21 ca the interior of the basement wall, the interior of the basement wall means R-5 thermal break betwee	tinuous insulation on the avity insulation plus a ther "10/15/21 +5TB" shall be plus R-5 continuous insul in floor slab and basement	mal break between permitted to be set ation on the interior wall.	n the sla net with or or ext	b and the base R-13 cavity in erior of the wa	ement wall sulation on
ď	R-10 continuous insulation is requ					150
E	For single rafter- or joist-vaulted extends over the top plate of the		y be reduced to R-	38 if the	full insulation	depth
f	R-7.5 continuous insulation instal slab insulation when applied to ei meet the requirements for therm	xisting slabs complying wit al barriers protecting foar	th Section R503.1. n plastics.	1. If foat	n plastic is use	d, it shall
E	For log structures developed in co climate zone 5 of ICC 400.	ompliance with Standard I	CC 400, log walls s	hall me	et the requiren	nents for
	Int. (intermediate framing) denot framing 16 inches on center, 78%					

Emercal		406.2 (co	RE.)	
Energy Credit Option Descriptions Options		energy of	elect ONE otion from tegory	User Notes
5.1" 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" Renewable Electric Energy (3 credits max	s)	1.0		
7.1 Appliance Package		0.5		
T	otal Credits		6.0	Day Form
An alternative heating source sized at a maxin whichever is bigger, may be installed in the di Equipment listed in Table C403.3.2(4) or C403 Equipment listed in Table C403.3.2(1) or C403 You cannot select more than one option from with options 5.2 through 5.6. See Table 406.3 1.0 credit for each 1,200 kWh of electrical ger See the complete Table R406.2 for all requires	welling unit. 1.3.2(5) 1.3.2(2) 11.3	y EXCEPT	in category	5. Option 5.1 may be combined

1.1	Prescriptive compliance is based on Table R402.1.1 with the following modifications:  Vertical fenestration U = 0.24	0.5
3.6 <sup>2</sup>	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.  To qualify to claim this credit, the building permit drawings shall specify the option being selected, the heated floor area calculation, the heating equipment type(s), the minimum equipment efficiency, and total installed heat capacity (by equipment type).	2.0
5.5	Water heating system shall include one of the following: Electric heat pump water heater meeting the standards for Tier III of NEEA's advanced water heating specification <i>or</i> 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>	2.0
7.1	All of the following appliances shall be new and installed in the dwelling unit and shall meet the following standards:  Dishwasher – Energy Star rated  Refrigerator (if provided) – Energy Star rated  Washing machine – Energy Star rated  Dryer – Energy Star rated, ventless dryer with minimum CEF rating of 5.2  To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall show the appliance type and provide documentation of Energy Star compliance. At the time of inspection, all appliances shall be installed and connected to utilities. Dryer ducts and exterior dryer vent caps are not permitted to be installed in the dwelling unit.	0.5



PER WSEC R402.4, THE BUILDING THERMAL ENVELOPE SHALL BE CONSTRUCTED TO LIMIT AIR LEAKAGE. THE RESULTS OF THE TEST SHALL BE SIGNED BY THE PARTY CONDUCTING THE TEST AND PROVIDED TO THE CODE OFFICIAL (R402.4.1.2).

PER WSEC R402.4, THE BUILDING THERMAL ENVELOPE SHALL BE CONSTRUCTED TO LIMIT AIR LEAKAGE. THE RESULTS OF THE TEST SHALL BE SIGNED BY THE PARTY CONDUCTING THE TEST AND PROVIDED TO THE CODE OFFICIAL (R402.4.1.2).

PER WSEC R403.2.2, DUCTS, AIR HANDLERS, AND FILTER BOXES SHALL BE SEALED. PER WSEC R404.1, A MINIMUM OF 75 PERCENT OF THE LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE HIGH-EFFICACY LAMPS.

AIR LEAKAGE SHALL NOT EXCEED 5 AIR CHANGES/ HOUR AND SHALL BE TESTED AS SUCH. A WRITTEN REPORT OF THE TEST RESULTS, SHALL BE SIGNED BY THE TESTING PARTY AND PROVIDED TO THE BUILDING INSPECTOR, PRIOR TO CALL FOR FINAL INSPECTION." THE AIR LEAKAGE TEST RESULT SHALL BE DOCUMENTED ON THE FORM WHICH IS AVAILABLE ONLINE AT

THE DESIGN PROFESSIONAL OR BUILDER SHALL COMPLETE AND POST AN "INSULATION CERTIFICATE FOR RESIDENTIAL CONSTRUCTION" WITHIN 3' OF THE ELECTRICAL PANEL PRIOR TO FINAL INSPECTION.

WINDOW AND DOOR HEADERS SHALL BE INSULATED WITH A MINIMUM OF R-10 INSULATION

HTTP://WWW.ENERGY.WSU.EDU/BUILDINGEFFICIENCY/ENERGYCODE.ASPX

2. ALL EXTERIOR WALLS TO BE 2x6 FRAMING U.N.O.

3. ALL INTERIOR WALLS TO BE 2x4 FRAMING U.N.O.

4. ALL DOOR JAMBS TO BE SET OFF WALLS 6" TYP. U.N.O.

5. ALL DIMENSIONS ARE TO FACE OF FRAMING U.N.O.

6. ALL WINDOW HEADS TO BE 8'-0" TO FINISH FLOOR AT THIS FLOOR, U.N.O.

7. ALL EXHAUST FANS ARE TO VENTED TO OUTSIDE.

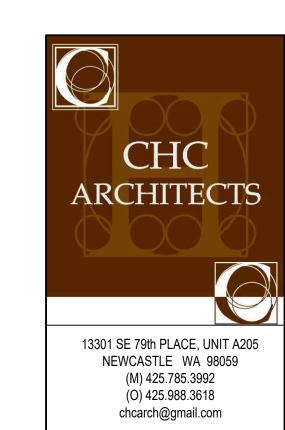
8. DOOR HT. AT THIS FLOOR IS 8'-0", TYP.9. ALL SMOKE DETECTORS MUST BE PROVIDED w/ PRIMARY POWER FROM

BUILDING WIRING, PROVIDED w/ BATTERY BACKUP, AND BE INTERCONNECTED.

10. ESCAPE (EGRESS) WINDOW MUST HAVE A CLEAR OPENABLE AREA OF 5.7 S.F. w/ A MINIMUM NET CLEAR HEIGHT OF 24" AND WIDTH DIMENSION OF 20". THE SILL HEIGHT MUST NOT BE MORE THAN 44" ABOVE THE FLOOR.

11. ALL EXTERIOR COLUMNS, BEAMS, AND JOISTS THAT ARE EXPOSED TO THE WEATHER MUST BE PRESSURE-TREATED.

12. ALL NEW FENESTRATION ARE NFRC CERTIFIED.

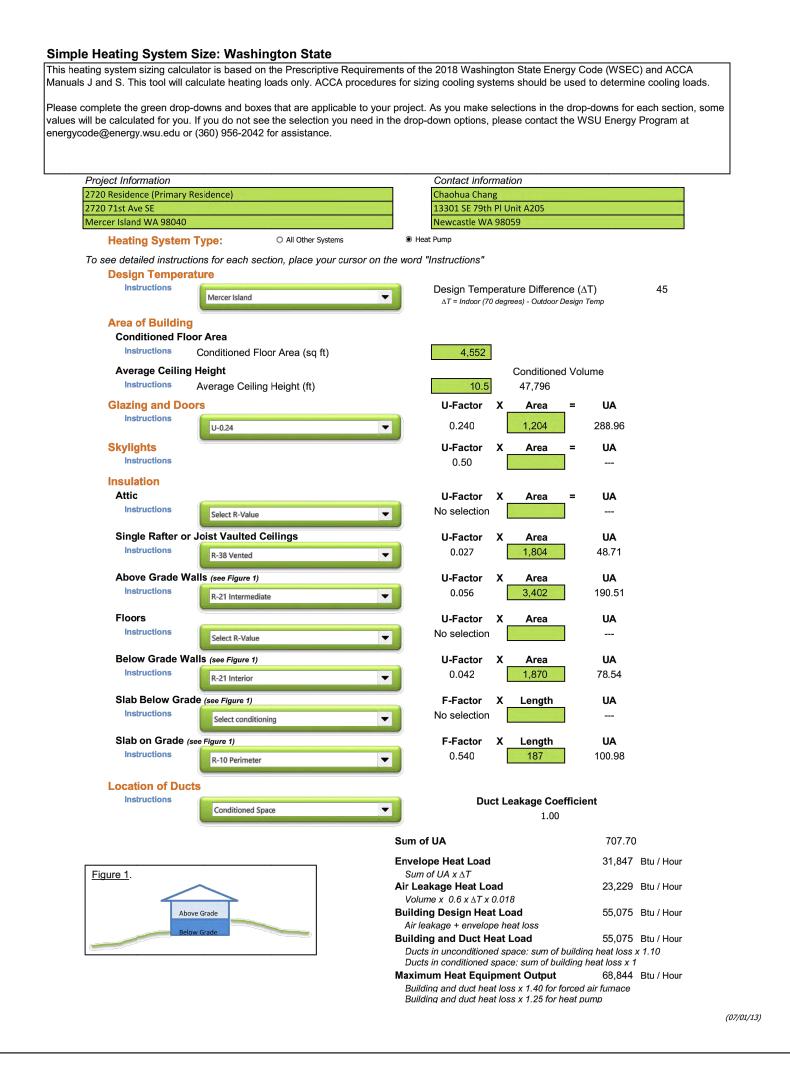


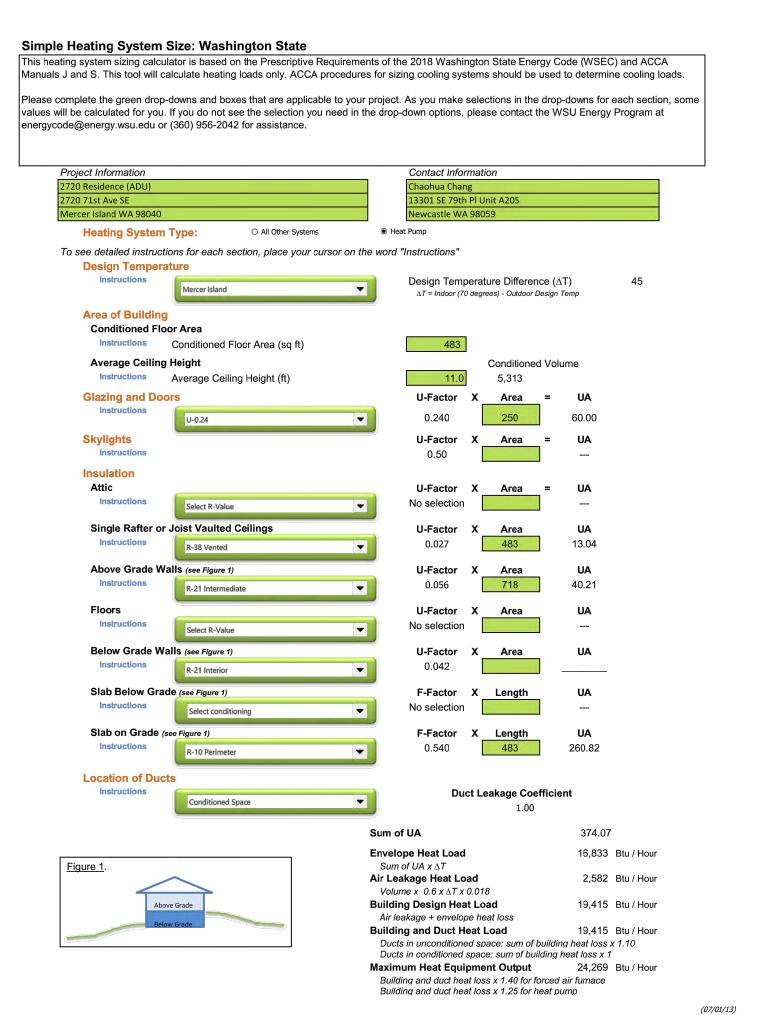


## 2720 RESIDENCE 2720 71ST AVENUE SE MERCER ISLAND WA 98040

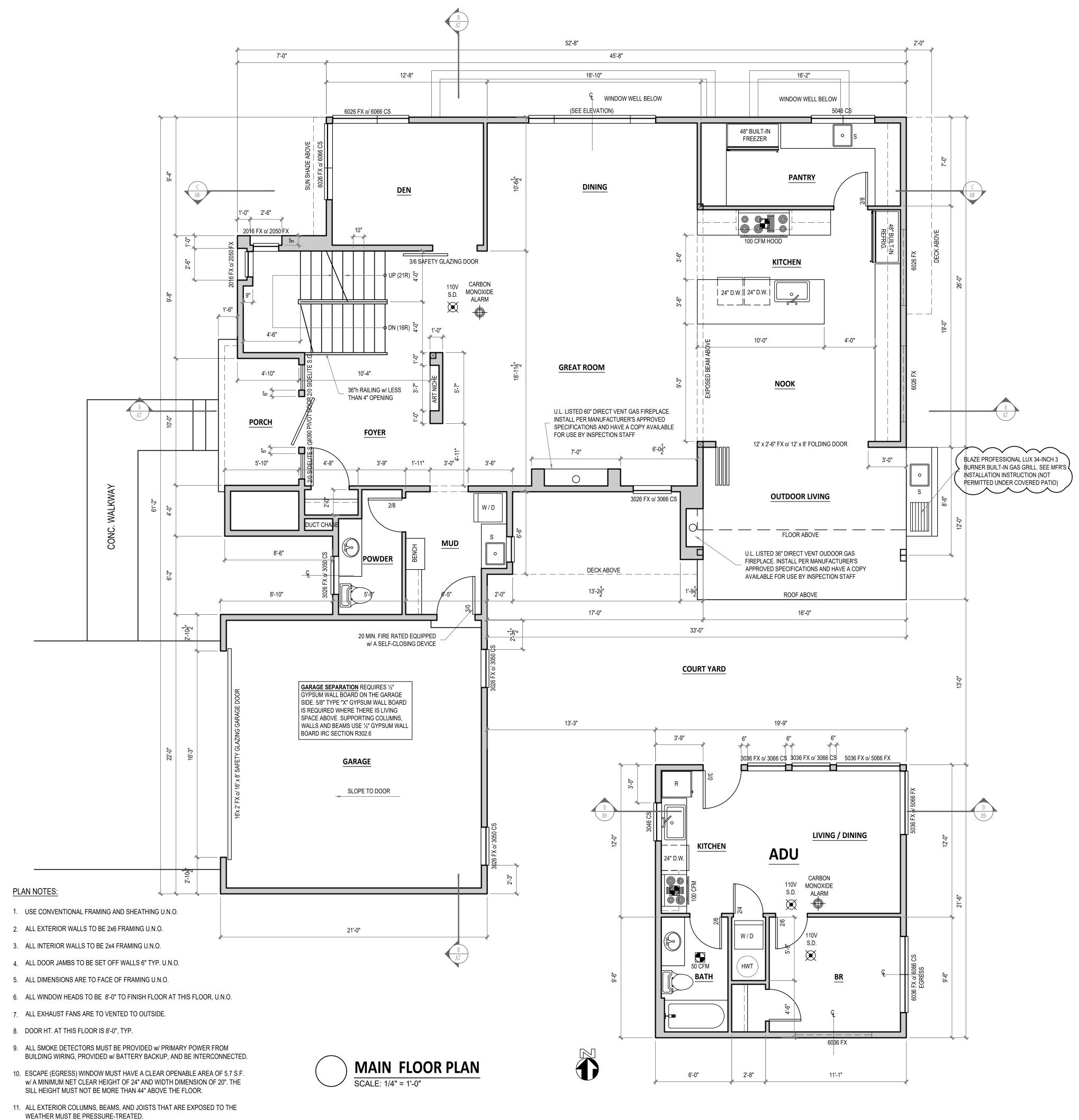
NUMBER _	DATE 08-05-2021	DESCRIPTION OF REVISIONS PERMIT PLANS
	01-22-2022	RESPONSE TO CITY COMMENT #
		-
		-
SHEET TIT	LE	
RΔS	FMF	NT PLAN

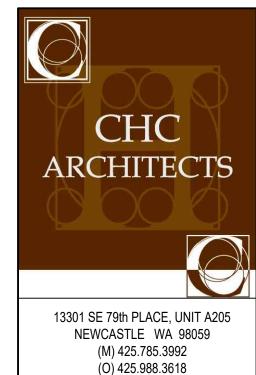
**A1** 





12. ALL NEW FENESTRATION ARE NFRC CERTIFIED.







chcarch@gmail.com

### 720 RESIDENCE 720 71ST AVENUE SE ERCER ISLAND WA 98040

 NUMBER
 DATE
 DESCRIPTION OF REVISIONS

 08-05-2021
 PERMIT PLANS

 01-22-2022
 RESPONSE TO CITY COMMENT #1

 03-23-2022
 RESPONSE TO CITY COMMENT #2

27 M

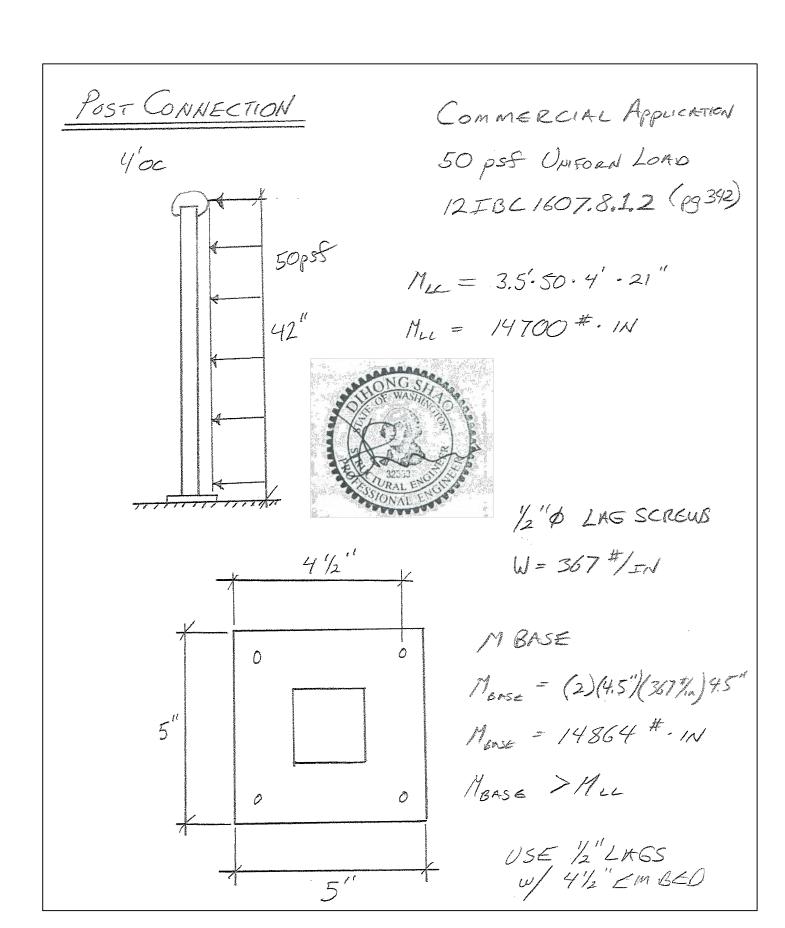
MAIN FLOOR PLAN

JOB NUMBER

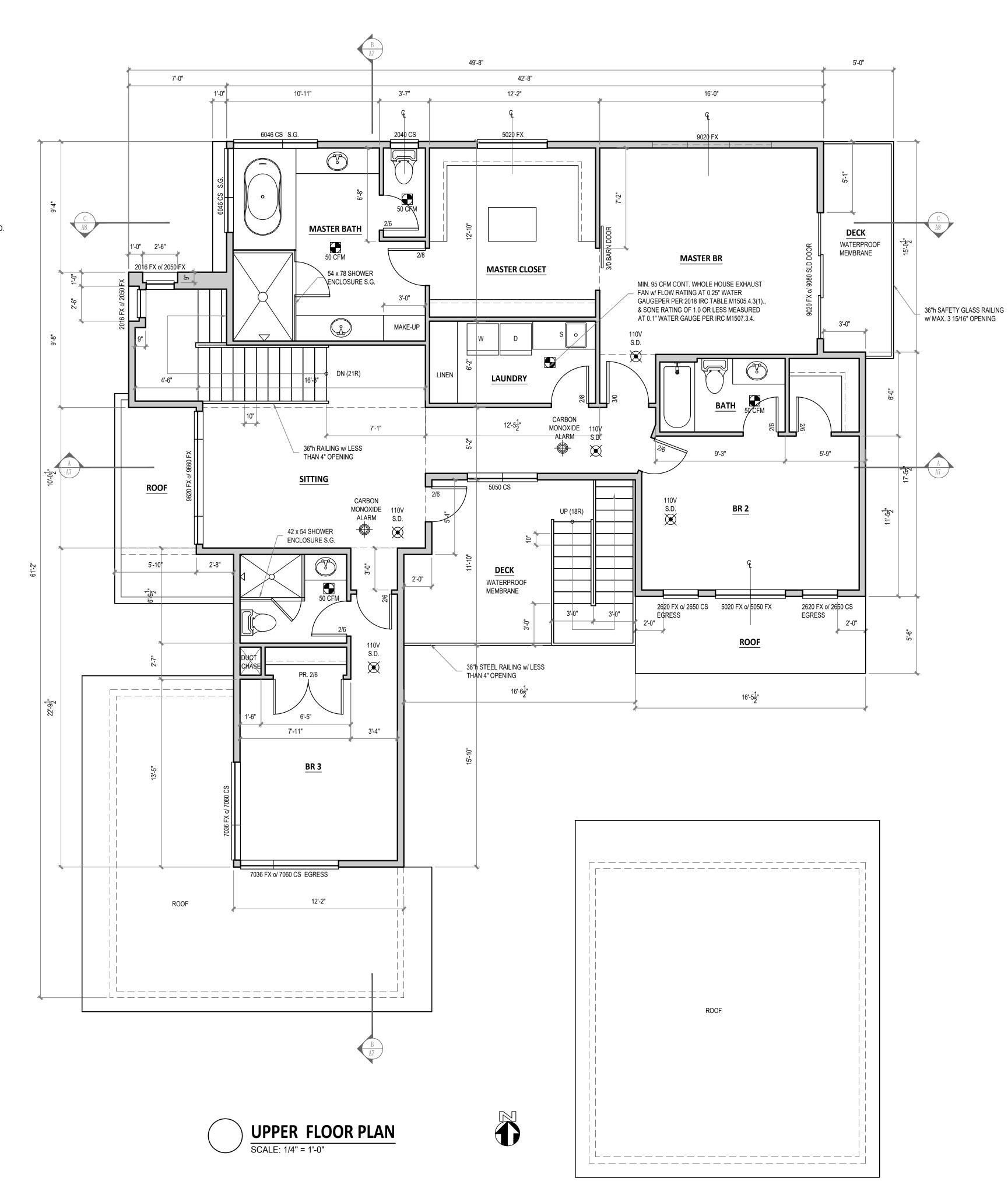
A<sub>2</sub>

### PLAN NOTES:

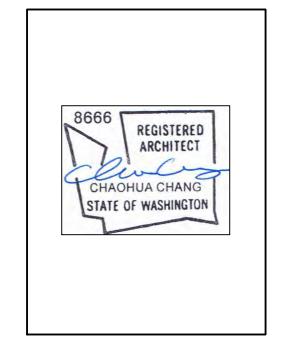
- 1. USE CONVENTIONAL FRAMING AND SHEATHING U.N.O.
- 2. ALL EXTERIOR WALLS TO BE 2x6 FRAMING U.N.O.
- 3. ALL INTERIOR WALLS TO BE 2x4 FRAMING U.N.O.
- 4. ALL DOOR JAMBS TO BE SET OFF WALLS 6" TYP. U.N.O.
- 5. ALL DIMENSIONS ARE TO FACE OF FRAMING U.N.O.
- 6. ALL WINDOW HEADS TO BE 8'-0" TO FINISH FLOOR AT THIS FLOOR, U.N.O.
- 7. ALL EXHAUST FANS ARE TO VENTED TO OUTSIDE.
- 8. DOOR HT. AT THIS FLOOR IS 8'-0", TYP.
- 9. ALL SMOKE DETECTORS MUST BE PROVIDED w/ PRIMARY POWER FROM BUILDING WIRING, PROVIDED w/ BATTERY BACKUP, AND BE INTERCONNECTED.
- 10. ESCAPE (EGRESS) WINDOW MUST HAVE A CLEAR OPENABLE AREA OF 5.7 S.F. w/ A MINIMUM NET CLEAR HEIGHT OF 24" AND WIDTH DIMENSION OF 20". THE SILL HEIGHT MUST NOT BE MORE THAN 44" ABOVE THE FLOOR.
- 11. ALL EXTERIOR COLUMNS, BEAMS, AND JOISTS THAT ARE EXPOSED TO THE WEATHER MUST BE PRESSURE-TREATED.
- 12. ALL NEW FENESTRATION ARE NFRC CERTIFIED.



TYP. RAILING POST DETAIL







# 2720 RESIDENCE 2720 71ST AVENUE SE MERCER ISLAND WA 98040

NUMBER	DATE	DESCRIPTION OF REVISIONS
	08-05-2021	PERMIT PLANS
	01-22-2022	RESPONSE TO CITY COMMENT #
	ſLE	
SHEET TIT		OOR PLAN
		OOR PLAN
		OOR PLAN
		OOR PLAN

**A3** 

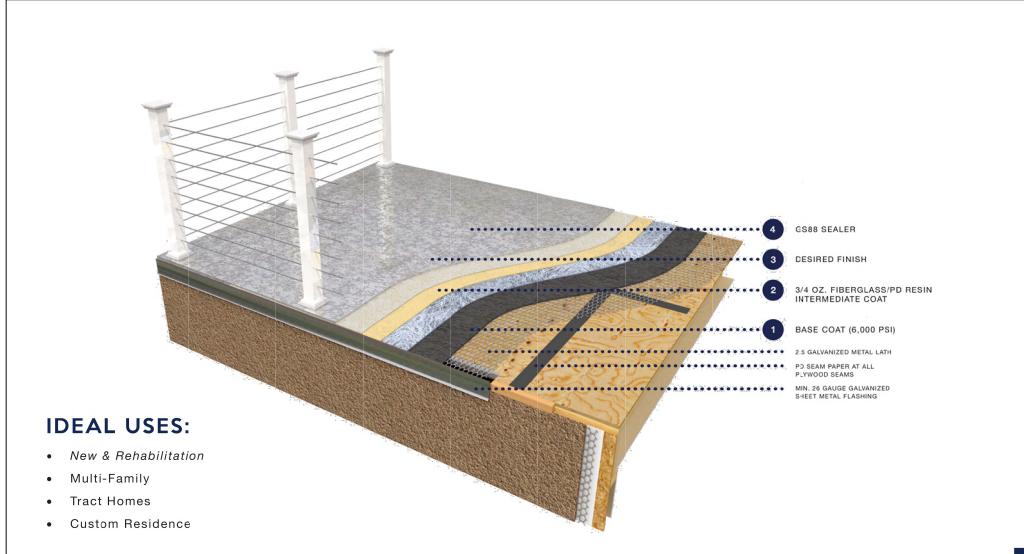
### PLI-DEK® SYSTEM

Pli-Dek® innovates waterproofing solutions that are not only guaranteed to be effective, but come with the company support to ensure you feel comfortable and confident using our products. The Pli-Dek® Systems are a 1-hour, Class "A" Fire Rated waterproof deck coating for plywood substrates that offers high durability and low maintenance for exterior use. The System is designed for high traffic pedestrian balconies, roof decks, walkways and stairs where waterproofing and durability are essential. The Pli-Dek® System consists of a galvanized metal lath, polymer cement base coat and intermediate coat, and offers a wide range of durable finishes. (See Finish Options on back for more details)

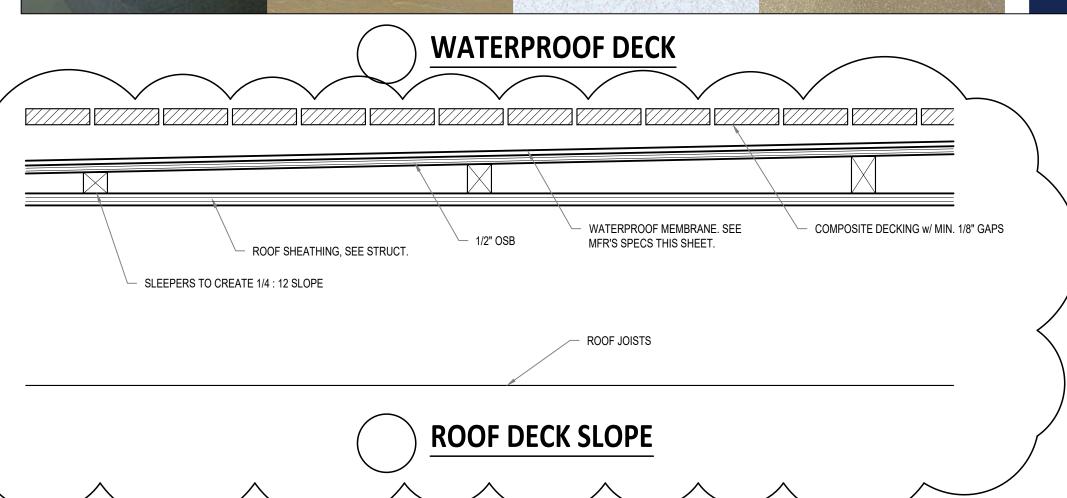
### BENEFITS

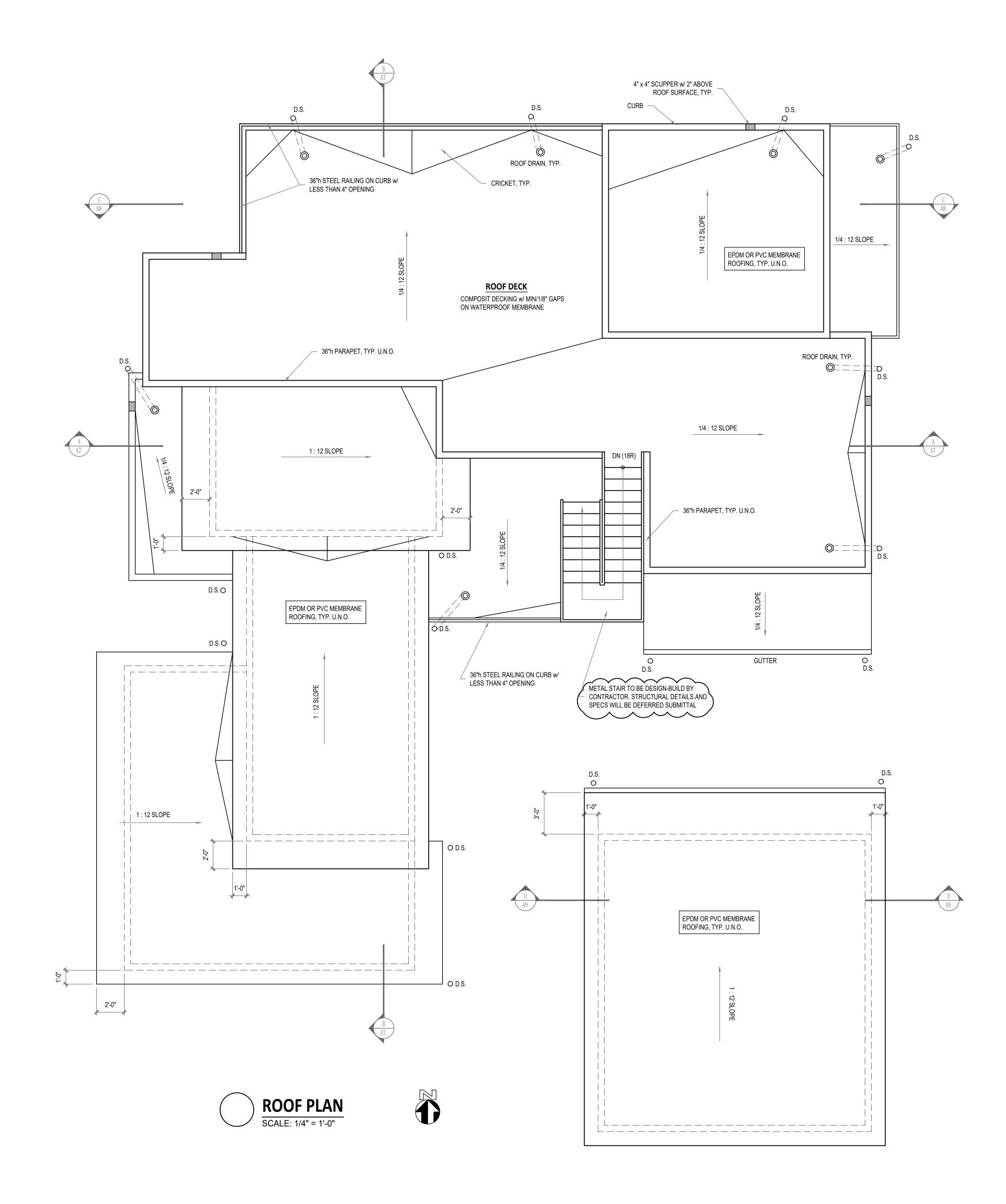
### TECHNICAL DATA

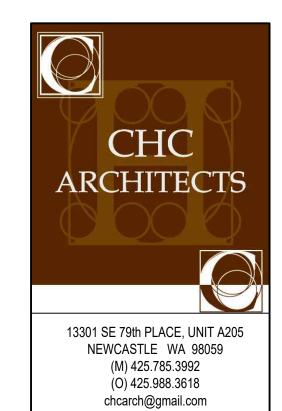
Spread of Flame	Bond Strength - Plywood	Water Transmission
(ASTM E-108)Class "A"	(ASTM C-297)126 psi	(ASTM E-96)0.31g/24hrs
Freeze Thaw	Tensile Strength	Abrasion Test
(ASTM C-67-03)Pass	(ASTM D-2707L)1505 PSI After Weathering	(ASTM D-1242)2.9%
1-Hour	Impact Test	Static Coefficient of Friction
(ASTM E-119)Pass	(ASTM D-3320)No Cracking	(ASTM C-1028-96)0.835

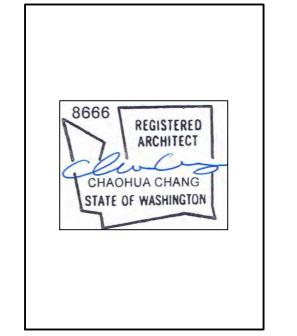












### ENC 2720 718 MERCER 20

	OF PL	Λ NI
SHEET TIT	TI E	
		-
	03-23-2022	RESPONSE TO CITY COMME
	01-22-2022	RESPONSE TO CITY COMME
NUMBER -	DATE 08-05-2021	DESCRIPTION OF REVISION PERMIT PLANS



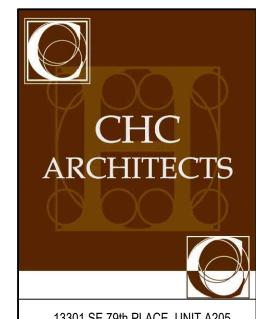
CHC ARCHITECTS

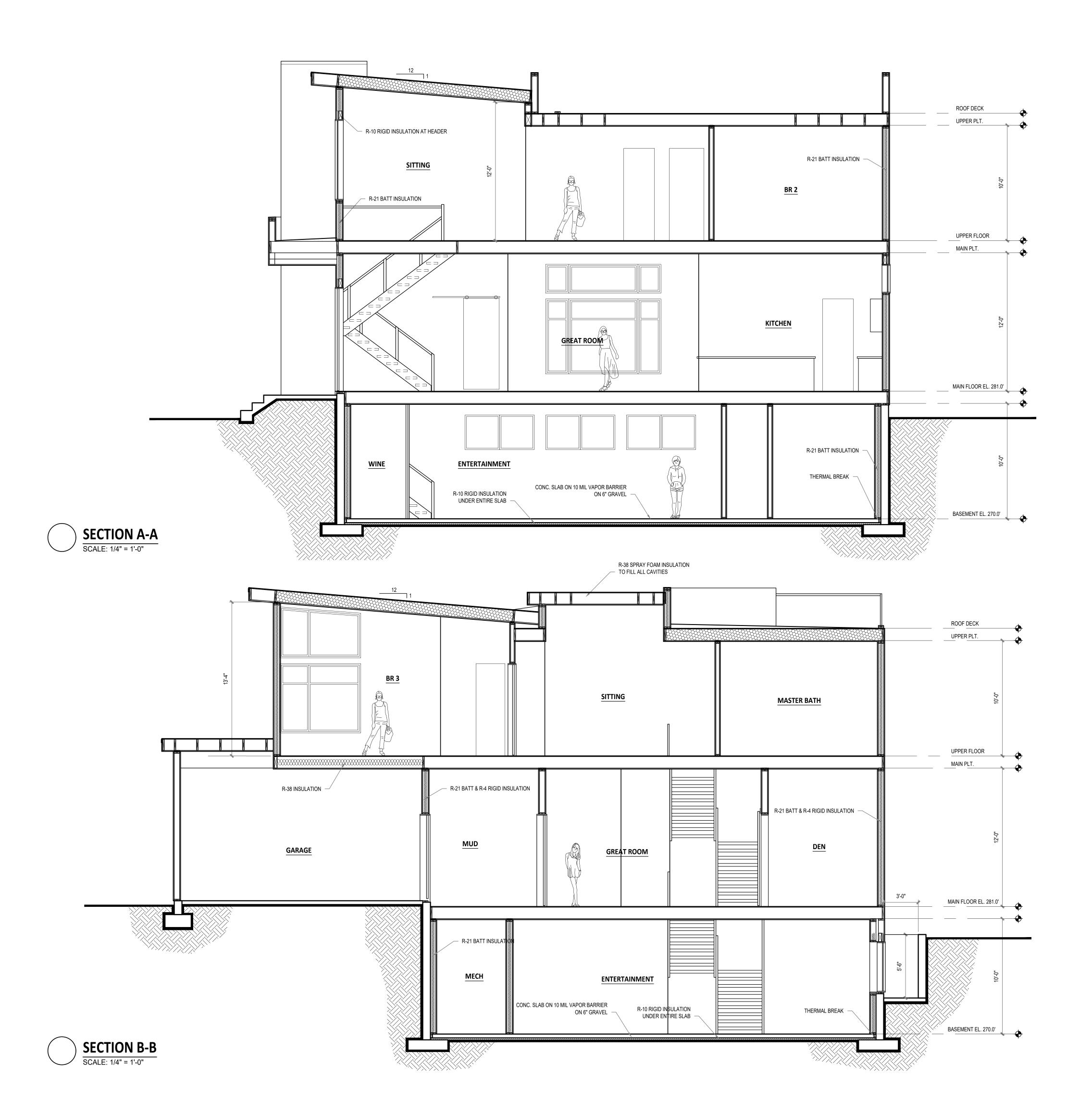


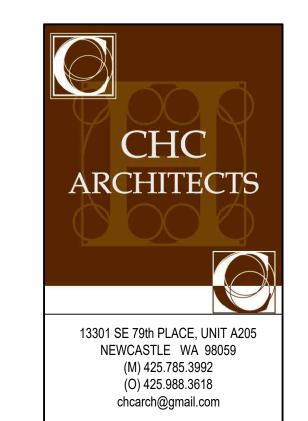
E SE 98040 2720 71ST AVENUE MERCER ISLAND WA RESIDE 2720

NUMBER DATE DESCRIPTION OF REVISIONS **ELEVATIONS** 







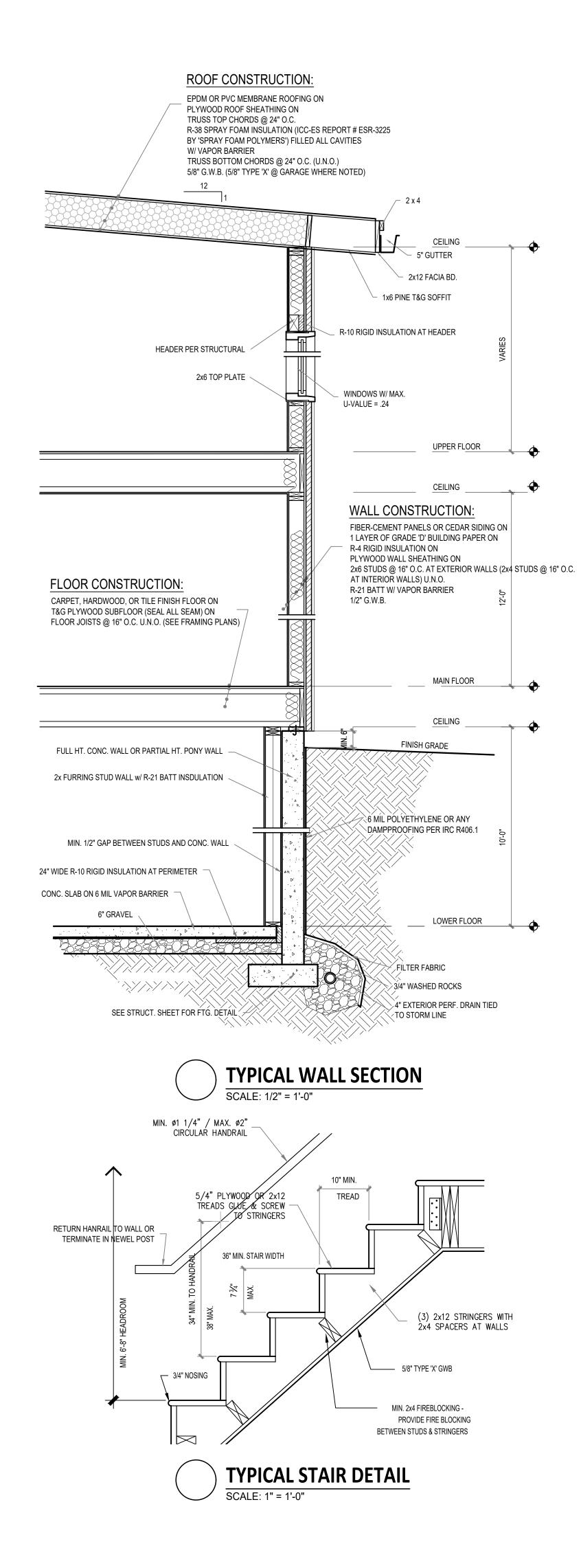


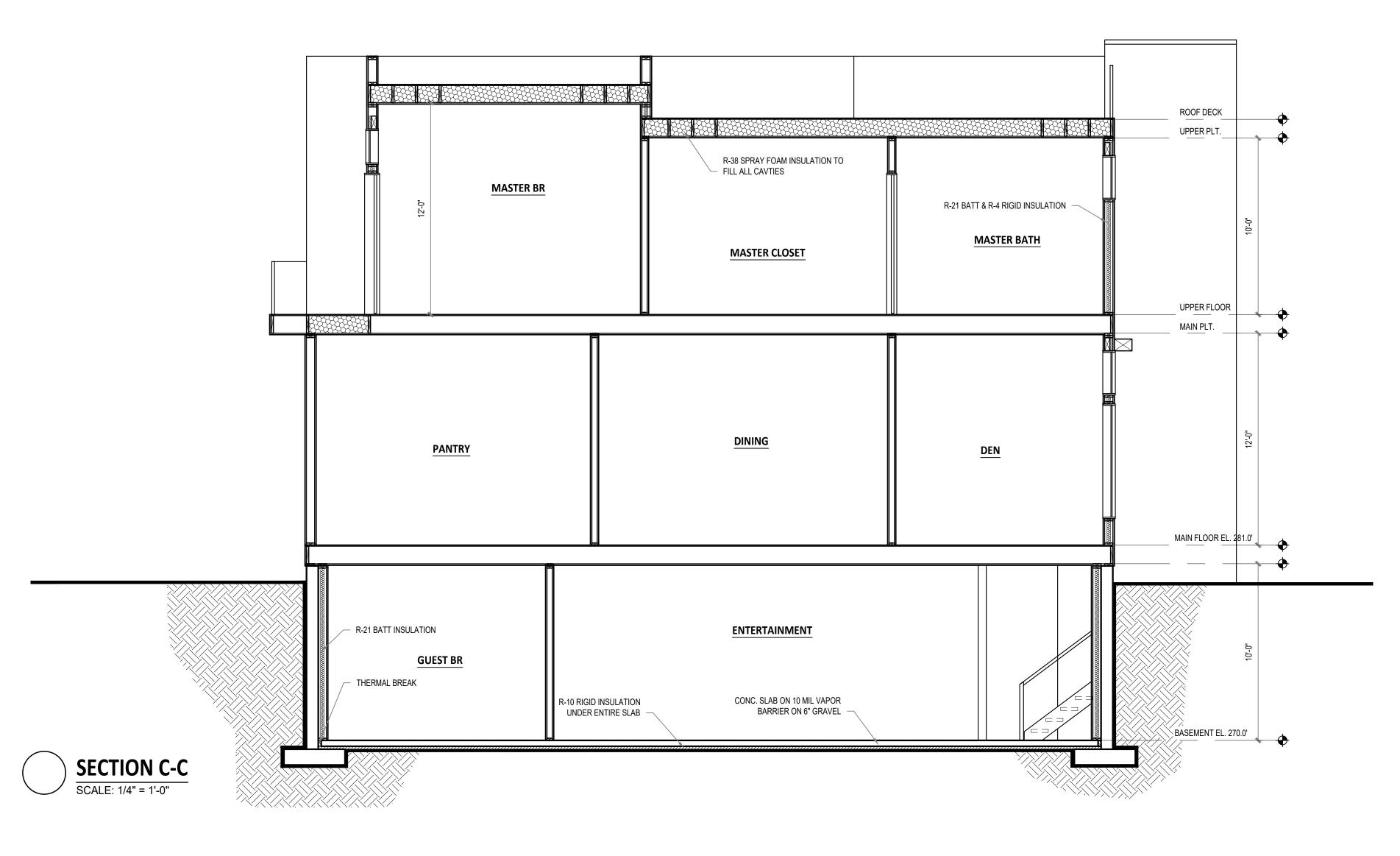


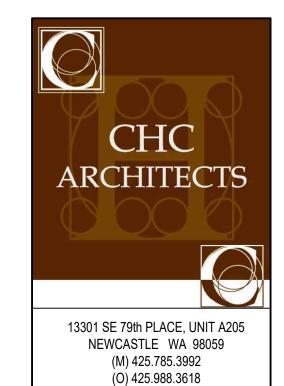
## 2720 RESIDENCE 2720 71ST AVENUE SE MERCER ISLAND WA 98040

NUMBER	DATE	DESCRIPTION OF REVISIONS
	08-05-2021	PERMIT PLANS
	01-22-2022	RESPONSE TO CITY COMMENT #
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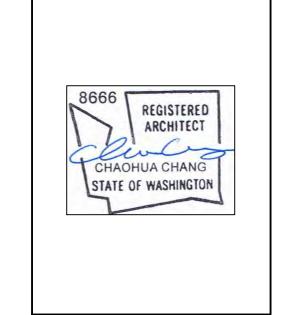
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chcarch@gmail.com

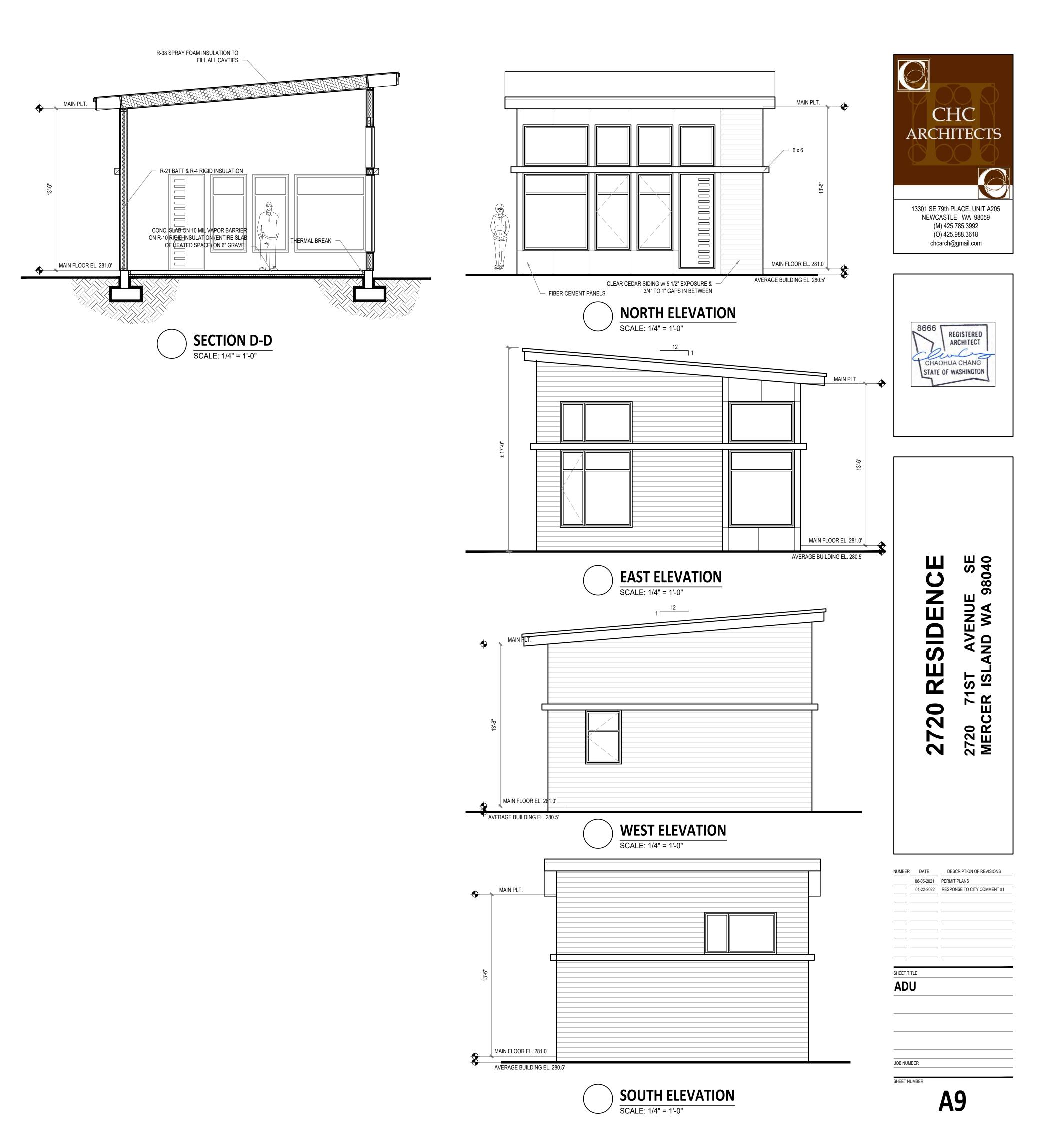


# 2720 RESIDENCE 2720 71ST AVENUE SE MERCER ISLAND WA 98040

NUMBER _	DATE	DESCRIPTION OF REVISIONS
	08-05-2021	PERMIT PLANS
— -	01-22-2022	RESPONSE TO CITY COMMENT #1
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JOB NUMBER

**8**A



### **GENERAL STRUCTURAL NOTES:**

(THE FOLLOWING NOTES APPLIES TO THE PROPOSED PROJECT UNLESS OTHERWISE NOTED ON THE PLANS AND DETAILS)

ALL DESIGN AND CONSTRUCTION SHALL COMPLY WITH THE 2018 INTERNATIONAL BUILDING CODE

### DESIGN LOADING CRITERIA:

1. DESIGN LOADS:

**ROOF SNOW LOAD:** ROOF PV PANEL: 4 PSF 10 PSF ROOF DECK PAVERS W/ PEDESTAL: FLOOR LIVE LOAD: 40 PSF

DECK LIVE LOAD: 98-MPH (3-SECOND GUST), EXPOSURE B, Kzt=1.90 SEISMIC USER GROUP I, I=1.0, SEISMIC: SITE CLASS SD

Ss=1.480; S<sub>1</sub>=0.500, Fa=1.000;  $F_V$ =1.500, S<sub>DS</sub>=0.980; S<sub>DI</sub>=0.500 R=6.5 (WOOD SHEAR WALL) Cd=4.0

### **FOUNDATION DESIGN:**

1500 PSF MAXIMUM DEAD+LIVE LOAD WITH A ONE-THIRD INCREASE ALLOWED UNDER THE SHORT-TERM WIND OR SEISMIC LOADS. CAST FOOTING ON NATIVE SITE SOILS OR STRUCTURAL FILL THAT EXTENDS DOWN TO THESE SOILS.

0.40 (SF=1.5)

COEFFICIENT OF FRICTION FOR FOUNDATIO BASE FRICTION EQUIVALENT PASSIVE FLUID PRESSURE EARTH PRESSURE FOR YIELDING/ACTIVE CONDITION WALLS

400 PCF (SF=1.5) 35 PCF 55 PCF

EARTH PRESSURE FOR NON-YIELDING/AT-REST CONDITION WALLS SEISMIC EARTH PRESSURE FOR BASEMENT WALLS

7H; WHERE H: BURIED DEPTH OF WALL

### CONCRETE AND FOUNDATION CONSTRUCTIONS:

1. ALL CONCRETE f'c=3,000 PSI (2,500 PSI USED FOR THE DESIGN), MAXIMUM WATER/CEMENT RATIO =0.45, MINIMUM 5-1/2 SACKS OF CEMENT PER CUBIC YARD. NO SPECIAL INSPECTION REQUIRED. CONCRETE BATCH TICKET OR DELIVERY RECEIPT FOR 3,000 PSI MINIMUM CONCRETE ON SITE FOR BUILDING INSPECTOR VERIFICATION. CONCRETE SHALL BE AIR ENTRAINED. TOTAL AIR CONTENT (PERCENT BY VOLUME OF CONCRETE) SHALL NOT BE LESS THAN 5 PERCENT OR MORE THAN 7 PERCENT.

2. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. NO SPECIAL INSPECTION REQUIRED. ASTM A706, GRADE 60, REINFORCING STEEL SHALL BE USED FOR WELDED OR FIELD-BENT BARS, SHEAR WALL BOUNDARY MEMBER REINFORCING, MAIN REINFORCING, SPIRALS, TIES AND STIRRUPS IN THE FRAME MEMBERS (BEAMS AND COLUMNS) COMPRISING THE LATERAL FORCE RESISTING SYSTEM.

3. WELDED WIRE FABRIC PER ASTM A185. FURNISH IN FLAT SHEETS, NOT ROLLS. LAP EDGES 1-1/2 MESH MINIMUM

4. PROVIDE CONCRETE COVER AS FOLLOWS: FOOTINGS 3", WALLS 1-1/2", AND SLAB ON GRADE 1-1/2".

5. PROVIDE 2#4 LONGITUDINAL BOTTOM BARS IN WALL FOOTINGS. PROVIDE CORNER BARS OF SAME SIZE AND NUMBER AT CORNERS AND INTERSECTIONS, 42 BAR DIAMETERS EACH LEG. PROVIDE VERTICAL DOWELS OF SAME SIZE, NUMBER AND SPACING AS CONCRETE STEM WALL VERTICAL BARS WITH A 90 DEGREE STANDARD HOOK AT THE BOTTOM OF THE FOOTING.

6. REINFORCING CONCRETE WALLS AS FOLLOWS"

6" WALLS, #4 @ 12" HORIZONTAL AND VERTICAL AT CENTER OF WALL

8" WALLS, #5 @ 15" OR #4 @ 12" HORIZONTAL AND VERTICAL AT CENTER OF WALL,

10" WALLS, #4 @ 16" HORIZONTAL AND VERTICAL AT EACH FACE, 12" WALLS, #4 @ 12" HORIZONTAL AND VERTICAL AT EACH FACE.

AT OPENINGS OVER 12" SQUARE, PROVIDE 2#5 BARS AT CENTER OF WALL ALL FOUR SIDES, EXCEPT 10" WALLS OR OVER PROVIDE 1#6 BAR EACH FACE ALL FOUR SIDES, EXTENDING 42 BAR DIAMETERS PAST OPENING. PROVIDE 1#5X4'-0" DIAGONAL BAR AT CENTER OF WALL ALL FOUR

AT CORNERS, PROVIDE CORNER BARS IN OUTSIDE FACE OF SAME SIZE AND SPACING AS HORIZONTAL BARS, 42 BAR DIAMETER EACH LEG.

AT INTERSECTIONS, PROVIDE CORNER BARS OF SAME SIZE, NUMBER AND SPACING AS HORIZONTAL BARSOF INTERSECTING WALL, 42 BAR DIAMETER EACH LEG.

PROVIDE 2#4 LONGITUDINAL BARS AT TOP OF WALLS. PROVIDE KEYWAY OR ROUGHENED SURFACE AT CONSTRUCTION JOINTS.

PROVIDE VERTICAL DOWELS OF SAME SIZE, NUMBER AND SPACING AS VERTICAL BARS

7. GROUT - 5000 PSI MINIMUM 7-DAY CUBE STRENGTH PER ASTM C1157-00. GROUT TO BE PREMIXED, NON-SHRINK "MASTERFLOW 928 GROUT" BY MASTER BUILDERS OR APPROVED EQUAL. ICC CERTIFICATION REQUIRED. USE SPECIFIC GROUT MIX RECOMMENDED BY MANUFACTURER FOR EACH GROUT APPLICATION AND FOLLOW MANUFACTURER'S INSTRUCTIONS.

8. ANCHOR BOLTS, ASTM A307. NO SPECIAL INSPECTION REQUIRED. SET ALL ANCHOR BOLTS BY TEMPLATE WHEREVER POSSIBLE.

9. DRILL-IN EXPANSION BOLTS, "KWIK-BOLT TZ" BY HILTI FASTENING SYSTEMS BY HILTI FASTENING SYSTEM OR APPROVED EQUAL. ICC CERTIFICATION REQUIRED (ERS-1917). SPECIAL INSPECTION REQUIRED.

10. DRILL-IN ADHESIVE BOLTS, "HIT RE-500" ADHESIVE ANCHOR SYSTEM BY HILTI FASTENING SYSTEM OR APPROVED EQUAL. ICC CERTIFICATION REQUIRED (ESR-2322). SPECIAL INSPECTION REQUIRED.

### CONSTRUCTION REQUIREMENTS:

1. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY AND SHALL NOTIFY OWNER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN IN THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED. THE CONTRACTOR SHALL BRING ALL DISCREPANCIES TO THE OWNER.

2. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDING WITH THE PLANS AND DETAILS. THIS INCLUDES EXISTING STRUCTURE.

3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY AND HEALTH PRECAUTIONS INCLUDING HAZARDOUS CONDITIONS AND MATERIALS EXISTED OR CREATED BY OTHER PARTIES THAT WORKING ON THE PROJECT. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR CONSTRUCTION METHODS, TECHNIQUES, AND SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL EXISTING COMPONENTS. WHICH ARE REQUIRED TO REMAIN. IN THEIR ORIGINAL CONDITION. THIS INCLUDES WEATHER PROTECTIONS FOR THESE COMPONENTS UNTIL SUCH TIME THAT THE ENTIRE DWELLING INCLUDING THE NEW ADDITION ITSELF IS WEATHER PROTECTED.

5. CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE OWNER FOR APPROVAL PRIOR FABRICATION OR CONSTRUCTION. CHANGES SHOWN IN SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT

6. 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 STRUCTURAL. LIMIT CONSTRICTION LOADING (INCLUDING DEMOLITION DEBRIS) ON EXISTING CEILING FAMING TO 10 PSF AND ON EXISTING FLOOR FRAMING TO 40 PSF. PROVIDE TEMPORARY PLANKS OR STRUCTURAL SHEATHING OVER THE EXISTING CEILING JOISTS AS REQUIRED TO PROTECT THE EXISTING SOFFIT.

7. CONTRACTOR SHALL CHECK FOR DRY-ROT FOR ALL EXISTING STRUCTURAL COMPONENTS AT EXTERIOR WALLS, EXISTING TOILET ROOM FLOORS AND WALLS, AREAS SHOWN WATER STAINS, WOOD IN CONTACT WITH EARTH AND CONCRETE, AND ALL WOOD MEMBERS IN CRAW SPACES. ALL ROTTEN WOOD SHALL BE REMOVED AND DAMAGED MEMBERS SHALL BE REPLACED OR REPAIRED AS DIRECTED BY THE OWNER

8. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE OWNER.

9. ALL STRUCTURAL SYSTEMS, WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED, SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE, AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.

10. THE MANUFACTURER'S INSTRUCTIONS SHALL BE AVAILABLE ON THE JOB SITE AT THE TIME OF INSPECTION, FOR THE INSPECTOR'S USE AND REFERENCE.

### **STRUCTURAL FRAMING REQUIREMENTS:**

1. ALL LUMBER SHALL BE KILN DRIED OR MC-19 WITH WWPA GRADED OR APPROVED EQUAL. ALL STRUCTURAL FLOOR, ROOF, AND SHEAR WALL SHALL BE APA RATED. ALL SPECIFIED INDUSTRIAL LUMBERS, NAMELY PARALLAM PSL, MICROLLAM LVL, TIMBERSTRAND LSL, AND TJI SHALL BE MADE BY TRUS-JOIST CORPORATION OR OWNER APPROVED EQUAL.

ALL GLUED LAMINATED MEMBERS SHALL BE FABRICATED IN ACCORDANCE WITH AITC 110, AITC 117 AND ANSI/AITC A190.1. EACH MEMBER SHALL BEAR AN AITC IDENTIFICATION MARK AND SHALL BE ACCOMPANIED BY AITC CERTIFICATE OF CONFORMANCE. USE EXTERIOR TYPE ADHESIVES. BEAMS SHALL BE INDUSTRIAL APPEARANCE GRADE, UON BY THE ARCHITECT. SINGLE SPAN BEAMS SHALL BE COMBINATION 24F-V4, Fb=2400 PSI, Fv=265 PSI, E=1,800,000 PSI; CANTILEVERED SPAN BEAMS SHALL BE COMBINATION 24F-V8, Fb=2400 PSI, Fv=265 PSI, E=1,800,000 PSI.

2. MINIMUM NAILING SHALL COMPLY WITH TABLE 2304.10.1 OF THE 2018 IBC.

3. ALL NAILS SIZES SPECIFIED ON DRAWINGS ARE BASED ON THE FOLLOWING SPECIFICATIONS:

NAIL SIZE, LENGTH, AND DIAMETER 6D 2" 0.113" 8D 2-1/2" 0.131 10D 3" 0.148 16D BOX 3" 0.131

THE FOLLOWING STAPLES MAY BE SUBSTITUTED FOR NAILING OF PLYWOOD

NAIL SIZE, EQUIVALENT STAPLE, AND MINIMUM LENGTH 6D 16GA 1-3/4" 8D 15GA 1-3/4" 10D 13GA 1-3/4"

4. GALVANIZED METAL TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY INCLUDING SIMPSON STRONG WALLS AND SIMPSON GARAGE PORTAL WALLS (WHERE OCCUR) OR OWNER APPROVED EQUAL. IF NO SPESIFIC HANGER IS CALLED OUT, ANY HANGER MADE FOR THE SPECIFIED BEAM OR JOIST CAN BE USED.

5. ALL EXTERIOR WALL STUDS ARE 2X6 DOUGLAS FIR NO.2 STUDS AT 16" ON CENTER. ALL INTERIOR BEARING AND SHEAR WALL STUDS ARE 2X4 DOUBLAS FIR NO.2 STUDS AT 16" ON CENTER. PROVIDE ONE BEARING STUD AND ONE FULL HEIGHT STUD AT EACH SIDE OF DOOR AND WINDOW OPENINGS WHEN THEIR ROUGH OPENING WIDTH IS EQUAL OR LESS THAN 3'-0". PROVIDE TWO BEARING STUDS AND TWO FULL HEIGHT STUDS AT EACH SIDE OF DOOR AND WINDOW OPENINGS WHEN THEIR ROUGH OPENING WIDTH IS GREATER THAN 3'-0" OR WALL IS FRAMED WITH (2)2X6 AT 16" ON CENTER. PROVIDE MULTIPLE STUDS UNDER ALL BEAM AND KING-TRUSS BEARING LOCATIONS WITH THEIR TOTAL WIDTH/DEPTH EQUAL OR WIDER/DEEPER THATN THE BEAM/KING-TRUSS WIDTH. THESE MULTIPLE STUDS NEED TO EXTEND DOWN TO THE TOP OF CONCRETE. PROVIDE EQUAL AMOUNT OF MULTIPLE VERTICAL BLOCKING AT JOIST SPACING TO ALLOW CONTIUNITY. THIS ALSO APPLIES TO ALL HOLDOWN STUDS FOR THE SHEAR WALLS. FACE NAIL WALL TOP DOUBLE PLATE WITH 16D @ 12" AND LAP MINIMUM 4'-0" AT JOINTS AND PROVIDE (6) 16D @ 4" ON CENTER EACH SIDE OF JOINT. FACE NAIL WALL SILL PLATE THROUGH FLOOR SHEATHING TO DOUBLE PLATES, BEAM, OR SUPPORTING MEMBER BELOW WITH 16D @ 6" ON CENTER. MULTIPLE STUD SHALL BE NAILED TOGETHER WITH 16D @ 12" ON CENTER STAGGERED EACH FACE. PROVIDE SOLID BLOCKING BETWEEN STUDS AT MID-HEIGHT FOR ALL STUD WALLS OVER 10FT IN HEIGHT.

6. PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS THAT EXTEND OVER MORE THAN HALF THE JOIST LENGTH AND AROUND ALL OPENING IN FLOOR. FLOOR JOISTS SHALL BE BLOCKED PER THE JOIST MANUFACTURER'S INSTRUCTIONS.

ALL FLOOR FRAMING LUMBERS: DOUGLAS FIR NO.2.

PANEL EDGE NAILING PER SHEAR WALL

PT 4x10 SILL PL RIPPED TO WIDTH OF WALL

EDGE. COUNTERSINK ANCHOR BOLT W/ SIZE

FTG DRAIN PER

TYP DETAIL -

W/ PT TREATMENT BRUSHED ON RIPPED

SCHED TYP @ SILL & DBL TOP PLATES -

AND SPACING PER SW SCHED -

12" MIN WIDTH OF

FREE DRAINING

TO FTG DRAIN -

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CLR

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PER SCHED

MATERIAL. EXTEND

ALL HEADERS: DOUGLAS FIR NO.2. TYPICAL HEADER 4X8 MINIMUM UNLESS OTHERWISE SHOWN ON THE PLANS. ALL POSTS: DOUGLAS FIR NO.2 UNLESS OTHERWISE SHOWN ON THE PLANS

STUDS, PLATES, AND MISCELLANEOUS LIGHT NON-STRUCTURAL FRAMING: HEM-FIR NO.2

8. METAL PLATE CONNECTED WOOD TRUSSES: WOOD TRUSSES SHALL BE DESIGNED, MANUFACTURED AND INSTALLED PER TRUSS PLATE INSTITUTE (ANSI/TPI 1) SPECIFICATIONS. TPI SPECIFICATIONS SHALL NOT REVISE TRUSS ENGINEER'S AND TRUSS MANUFACTURER'S RESPONSIBILITY NOTED BELOW. WEB AND CHORD SIZES INDICATED ON PLANS AND NOTES ARE MINIMUM ONLY. ROOF DESIGN LIVE LOAD PER DESIGN LOADING CRITERIA. ROOF DESIGN DEAD LOAD 10 PSF MINIMUM TOP CHORD AND 7 PSF MINIMUM BOTTOM CHORD WITH LIVE LOAD OF 40 PSF MINIMUM AT ATTIC FLOOR WHERE APPLICABLE. USE 2X6 MINIMUM BOTTOM CHORD FOR ATTIC FLOOR. ROOF DESIGN WIND UPLIFT 15 PSF MINIMUM TYPICAL, EXCEPT USE 30 PSF MINIMUM WITHIN 10 FEET OF ROOF EAVES OR RAKES. DESIGN TRUSSES FOR SUPPORT OF DEAD, LIVE, SNOWDRIFT, AND WIND LOADS AND MECHANICAL/ELECTRICAL EQUIPMENT, PIPING, ETC AS REQUIRED. SNOW DRIFT LOADING LOCATIONS AND VALUES TO BE DETERMINED BY TRUSS ENGINEER. SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS SHOWING TRUSSES, TRUSS TO TRUSS AND TRUSS TO SUPPORTING STRUCTURE CONNECTIONS, ERECTION AND PERMANENT BRACING SIZES AND CONNECTIONS. PROVIDE

PROVIDE ERECTION BRACING PER MANUFACTURE'S INSTRUCTIONS. PROVIDE AND INSTALL PERMANENT BRACING FOR LATERAL SUPPORT OF INDIVIDUAL WEB AND CHORD MEMBERS AS DESIGNED BY THE TRUSS ENGINEER. PROVIDE AND INSTALL ALL TRUSS TO TRUSS AND TRUSS TO SUPPORTING STRUCTURE CONNECTIONS.

TRUSS ALTERATIONS SHALL NOT OCCUR UNLESS THE APPROVAL OF A DESIGN PROFESSIONAL

9. VENT BLOCKINGS CALLED OUT IN THE DRAWINGS ARE 2X WOOD BLOCKING WITH (3) EQUAL SPACED 1-1/2" DIAMETER HOLES ON EACH BLOCKING WITH MASH INSTALLED.

10. ROOF SHEATHING: 15/32"(1/2") MINIMUM CDX PLYWOOD OR STRUCTURAL PANEL WITH SPAN RATING OF 32/16, UNBLOCKED, LAID UP WITH FACE GRAIN PERPENDICULAR TO FRAMING BELOW, STAGGER END JOINTS. INSTALL PLYCLIPS AS REQUIRED. NAILING IS AS FOLLOWS: 10D @ 6" DIAPHRAGM BOUNDARIES, OVER EXTERIOR WALLS, AND INTERIOR SHEAR WALLS, 10D @ 6" ALL SUPPORTED EDGES, AND 10D @ 12" FIELD.

11. FLOOR AND ROOF DECK SHEATHING: 23/32"(3/4") MINIMUM CDX TONGUE AND GROOVE PLYWOOD WITH SPAN RATING OF 40/20, UNBLOCKED FOR FLOOR JOIST SPACED AT 16" ON CENTER; 7/8" MINIMUM CDX TONGUE AND GROOVE PLYWOOD WITH SPAN RATING OF 40/20 UNBLOCKED FOR FLOOR JOIST SPACED AT 24" ON CENTER; LAID UP WITH FACE GRAIN PERPENDICULAR TO FRAMING BELOW, STAGGER END JOINTS. GLUE FLOOR SHEATHING TO ALL SUPPORTS WITH A CONTINUOUS 3/16" DIAMETER BEAD MINIMUM. PROVIDE TWO BEADS AT PANEL JOINTS. NAILING IS AS FOLLOWS: 10D @ 6" DIAPHRAGM BOUNDARIES, OVER EXTERIOR WALLS, AND INTERIOR SHEAR WALLS, 10D @ 6" ALL SUPPORTED EDGES,

> STUD FRAMING PER PLAN OR NOTES. SHEATHING & NAILING PER SW SCHED

← SILL PLATE NAILING PER SW SCHED

TOP FLANGE HANGERS

FOR BEAMS AND JOISTS

I-JOIST PER PLAN W/ MOISTURE

BARRIER BTWN CONCRETE &

- REFER TO SITE RETAINING WALL

SLAB ON GRADE AND SUBGRADE PER FOUNDATION PLAN NOTES

- DOWELS TO MATCH

& LAP VERT BARS. EXTEND TO EDGE

SECTION FOR WALL GEOMETRY &

NAILING PER PLAN NOTES

JOIST END. FLOOR SHEATHING &

RFAM OR

REINFORCING

PER SCHED

12. EXTERIOR/INTERIOR/SHEAR WALL SHEATHING 15/32" (1/2") MINIMUM CDX PLYWOOD WITH SPAN RATING OF 24/0, EXTERIOR SIDE BLOCKED (BLOCK ALL UNSUPPORTED EDGES), NAIL WITH 10D @ 6" ALL EDGES AND 10D @ 12" FIELD. NAIL BOTTOM PLATE TO FRAMING BELOW WITH 16D

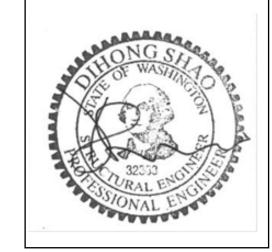
13. WALL SILL PLATES OVER THE CONCRETE ARE TO BE 3X TREATED LUMBER WITH 1/2" DIAMETER ANCHOR BOLTS AT 4'-0" ON CENTER WITH EMBED IN CONCRETE OF 7" MINIMUM. ALL BOLTS SHALL HAVE 3X3X1/4 STEEL WASHER PLATE UNDER BOLT NUTS. THE EDGE OF A WASHER SHOULD NOT BE LOCATED MORE 1/2" AWAY FROM THE INSIDE FACE OF A SHEAR WALL SHEATHING. MINIMUM OF TWO BOLTS PER PLATE WITH BOLT END DISTANCE OF 6" MINIMUM. SHEAR WALL BOTTOM PLATE NAILING AND ALL NAILING AT PRESSURE TREATED PLATE/MEMBERS SHALL BE HOT-DIPPED ZINC-COATED GALVANIZED STEEL OR STAINLESS-STEEL NAILS.

14. WOOD IN CONTACT WITH CONCRETE SHOULD BE PRESERVATIVE-TREATED WOOD IN ACCORDNACE WITH AWPA U1 AND M4 STANDARDS.

15. FASTENERS INSTALLED IN PRESERVATIVE-TREADED OR IN FIRE-RETARDANT-TREATED WOOD SHALL BE HOT-DIPPED ZINE-COATED GALVANIZED WITH A MINIMUM COATING WEIGHT COMPLYING WITH ASTM A153. THIS INCLUDES NUTS AND WASHERS. FASTENERS OTHER THAN NAILS AND TEMBER RIVETS ARE PERMITTED TO BE MACHANICALLY DEPOSITED ZINC-COATED WITH COATING WEIGHTS COMPLYING WITH ASTM B 695, CLASS 55 MINIMUM.

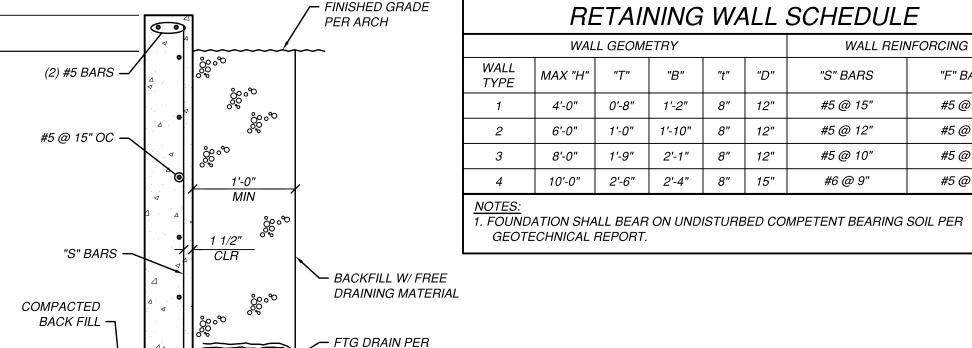


1201 3RD AVE, 2200 SEATTLE, WA 98101 (206) 734-5858



## **2 2**

### RETAINING WALL SCHEDULE WALL GEOMETRY WALL REINFORCING "B" "S" BARS "F" BARS TYPE 0'-8" 1'-2" #5 @ 15" #5 @ 18" #5 @ 18" 6'-0" 1'-0" | 1'-10" 12" #5 @ 12" 8'-0" | 1'-9" | 2'-1" | 8" 12" #5 @ 10" #5 @ 12" 10'-0" | 2'-6" | 2'-4" | 8" | 15" #6 @ 9" #5 @ 12" 1. FOUNDATION SHALL BEAR ON UNDISTURBED COMPETENT BEARING SOIL PER GEOTECHNICAL REPORT.



TYPICAL DETAIL

└─ "F" BARS └ #5 @ 12" OC

└─ "S" BARS

**GENERAL NOTES** 

NUMBER DATE DESCRIPTION OF REVISIONS

01 01.18.22 PERMIT REVIEW-1

00 07.29.21 PERMIT SET

CITY STAMP

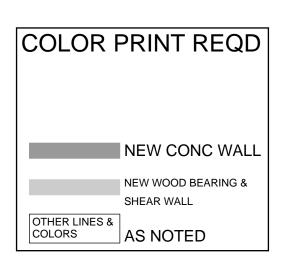
SITE RETAINING WALL SECTION

FINISHED GRADE OR

#5 @ 12" OC

PAVING PER ARCH -

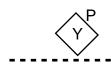
FTG WIDTH PER SCHED



ALL BEARING/SHEAR WALLS SHOWN IN PLANS ARE FOR WALLS BELOW. TYPICAL UNO.



X LINEAR FT OF TYPE Y SHEAR WALL; REFER TO 8/S5.5 FOR SCHEDULE AND DETAILS.



TYPE Y PERFORATED SHEAR WALL; REFER TO 6/S5.5 FOR



HOLDOWN STRAP TIES AT TOP (DASHED WHERE OCCURS) AND BOT OF SHEAR WALL PANEL BELOW; REFER TO 1/S5.2 FOR SCHEDULE. CENTER TOP AND BOT STRAPS TO BOT AND TOP OF RIM JOIST RESPECTIVELY & WRAP AROUND RIM JOIST AND/OR BM/HEADER ABOVE & BELOW WHEN TOO LONG

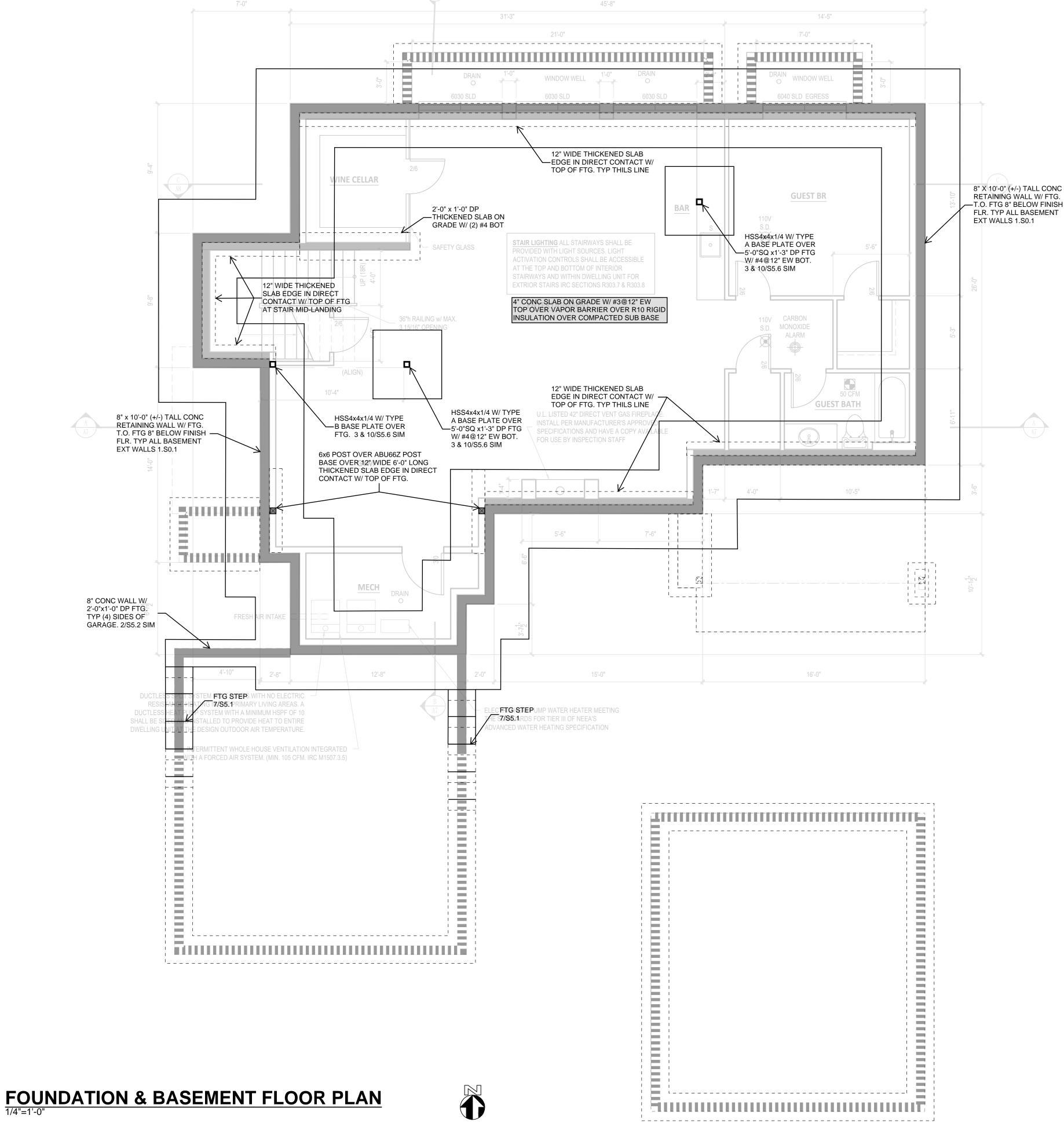


HOLDOWN STRAP TIES AT TOP (DASHED WHERE OCCURS) AND HOLDOWN ANCHOR IN CONC AT BOT OF SHEAR WALL PANEL BELOW; REFER TO 1/S5.2 & 1/S5.5 FOR SCHEDULES; CENTER TOP STRAP TO BOT OF RIM JOIST & WRAP AROUND RIM JOIST AND/OR BM ABOVE WHEN TOO LONG



7 STEP IN FLR OR SLAB

COMBINED HOLDOWN ANCHOR FOR SHEAR WALLS PERPENDICULAR TO EACH OTHER SEE 4/S5.5



### 01 01.18.22 PERMIT REVIEW-1

NUMBER DATE DESCRIPTION OF REVISIONS PERMIT SET

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1201 3RD AVE, 2200 SEATTLE, WA 98101

(206) 734-5858

FOUNDATION & BASEMENT FLOOR PLAN

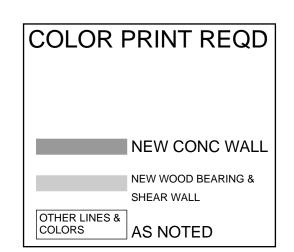
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**S2.**(

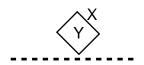
CITY STAMP

FOUNDATION AND LOWER FLOOR PLAN NOTES:

- 1. ALL HEADERS ARE 4x12 UNO; ALL POSTS ARE 4x4/4x6 AND 6x6 IN 2X4 AND 2X6 STUD WALLS RESPECTIVELY UNO.
- 2. " 🗆 " INDICATES FACE MOUNTED BEAM HANGER WITH SDS FASTENERS UNO.
- 3. \* \* "INDICATES SHARED HOLDOWN FOR SHEAR WALLS PERPENDICULATER TO EACH OTHER. SEE 4/S5.5.
- 4. EXCEPT IN-WALL HEADERS, ALL FLOOR BEAMS ARE TOP FLUSH. UNO. 5. SEE 1/S5.1 AND 2/S5.2 FOR TYPICAL FOUNDATION DETAILS.
- 6. SEE 7&12/S5.3 FOR STAIR FRAMING DETAILS.
- 7. SEE 1/S0.1 FOR RETAINING WALL FOUNDATION DETAIL.
- 8. SEE ARCHITECT FOR TOP OF CONC WALL AND FINISH FLOOR ELEVATIONS.9. HOLDOWNS SHOWN ARE A REPEAT OF WHAT ARE SHOWN ON THE FLOOR FRAMING ABOVE.
- 10. DO NOT SCALE RETAINING WALL FOOTING WIDTH FROM THE PLAN.



ALL BEARING/SHEAR WALLS SHOWN IN PLANS ARE FOR WALLS BELOW. TYPICAL UNO.



X X LINEAR FT OF TYPE Y SHEAR WALL; REFER TO 8/S5.5 FOR SCHEDULE AND DETAILS.



TYPE Y PERFORATED SHEAR WALL; REFER TO 6/S5.5 FOR



HOLDOWN STRAP TIES AT TOP (DASHED WHERE OCCURS) AND BOT OF SHEAR WALL PANEL BELOW; REFER TO 1/S5.2 FOR SCHEDULE. CENTER TOP AND BOT STRAPS TO BOT AND TOP OF RIM JOIST RESPECTIVELY & WRAP AROUND RIM JOIST AND/OR BM/HEADER ABOVE & BELOW WHEN TOO LONG



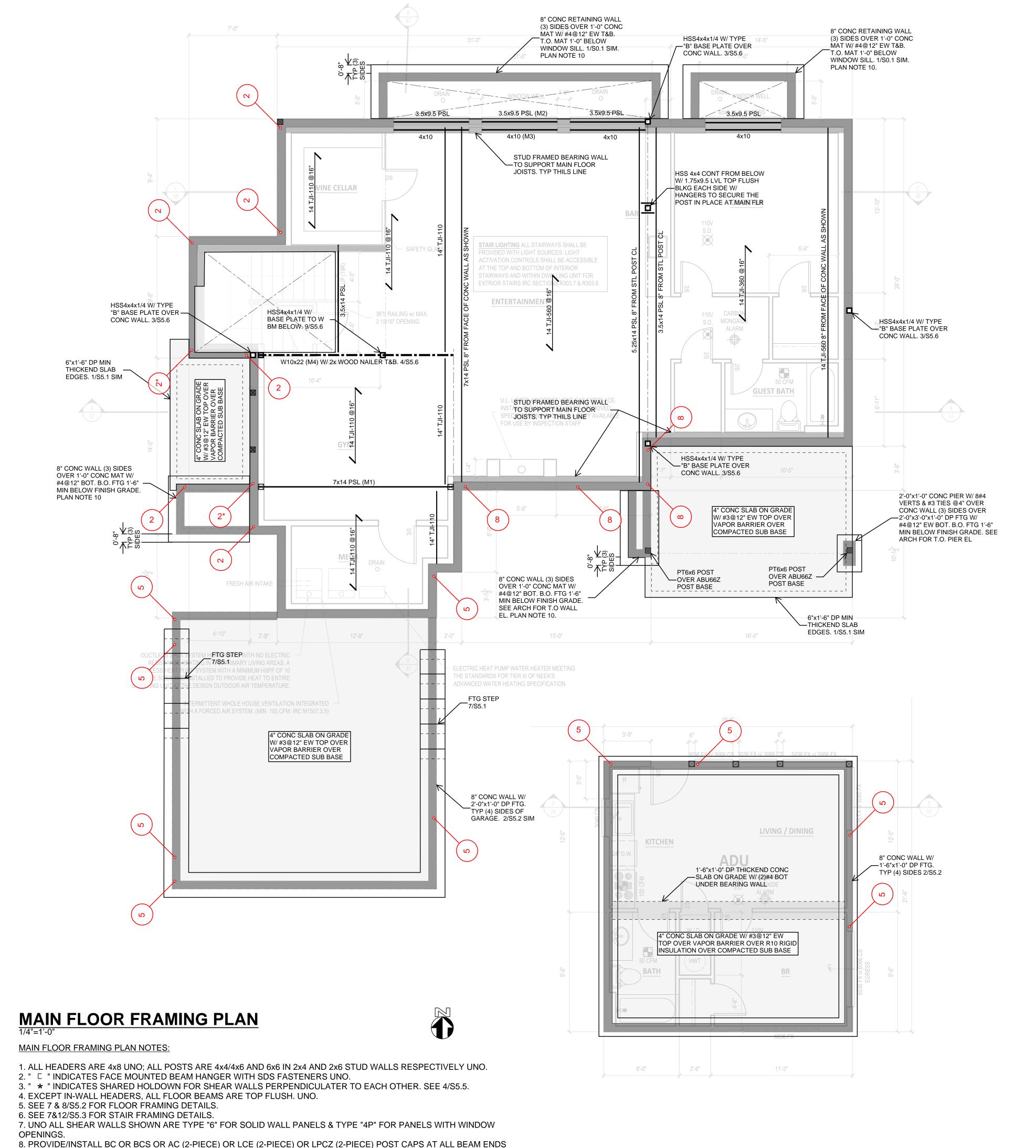
HOLDOWN STRAP TIES AT TOP (DASHED WHERE OCCURS) AND HOLDOWN ANCHOR IN CONC AT BOT OF SHEAR WALL PANEL BELOW; REFER TO 1/S5.2 & 1/S5.5 FOR SCHEDULES; CENTER TOP STRAP TO BOT OF RIM JOIST & WRAP AROUND RIM JOIST AND/OR



STEP IN FLR OR SLAB

COMBINED HOLDOWN ANCHOR FOR SHEAR WALLS PERPENDICULAR TO EACH OTHER SEE 4/S5.5

BM ABOVE WHEN TOO LONG



AT POSTS/WALLS; PROVIDE/INSTALL BC POST BASES FOR ALL POSTS OVER WOOD FRAMING.

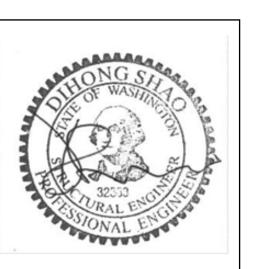
9. HOLDOWNS SHOWN ARE A REPEAT OF WHAT ARE SHOWN ON THE FLOOR FRAMING ABOVE.

INSTALLED SITE WALLS/FTGS. EPOXY DOWELS AT WALL CENTER AND FTG MID DEPTH.

10. INSTALL #4x1'-4" EPOXY DOWELS @18" (4" EMBED) TO BASEMENT WALLS ALONG FTG/WALL LENGHT FOR LATER

ENGINEERS

1201 3RD AVE, 2200 SEATTLE, WA 98101 (206) 734-5858



## RESIDENCE 1ST AVENUE SE 1 ISLAND WA 98040

0

272 MEI

NUMBEF	R DATE	DESCRIPTION OF REVISIONS
00	07.29.21	PERMIT SET
01	01.18.22	PERMIT REVIEW-1
SHEET T	TITLE	

AIN FLOOR FRAMING PLAN

B NUMBER

**S2.1** 

ALL BEARING/SHEAR WALLS SHOWN IN PLANS ARE FOR WALLS BELOW. TYPICAL UNO.

⟨Ÿ<sup>X</sup>

X LINEAR FT OF TYPE Y SHEAR WALL; REFER TO 8/S5.5 FOR SCHEDULE AND DETAILS.

P TYPE Y WALL; R DETAIL.

TYPE Y PERFORATED SHEAR WALL; REFER TO 6/S5.5 FOR

(A) A

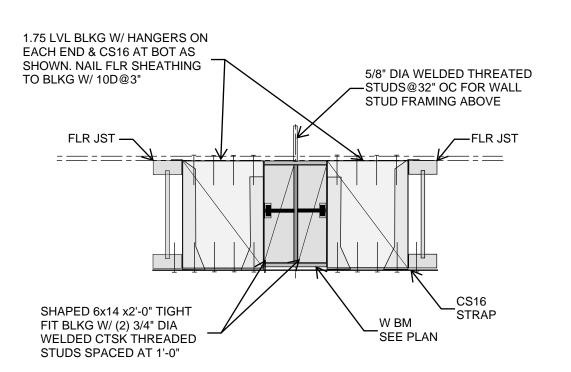
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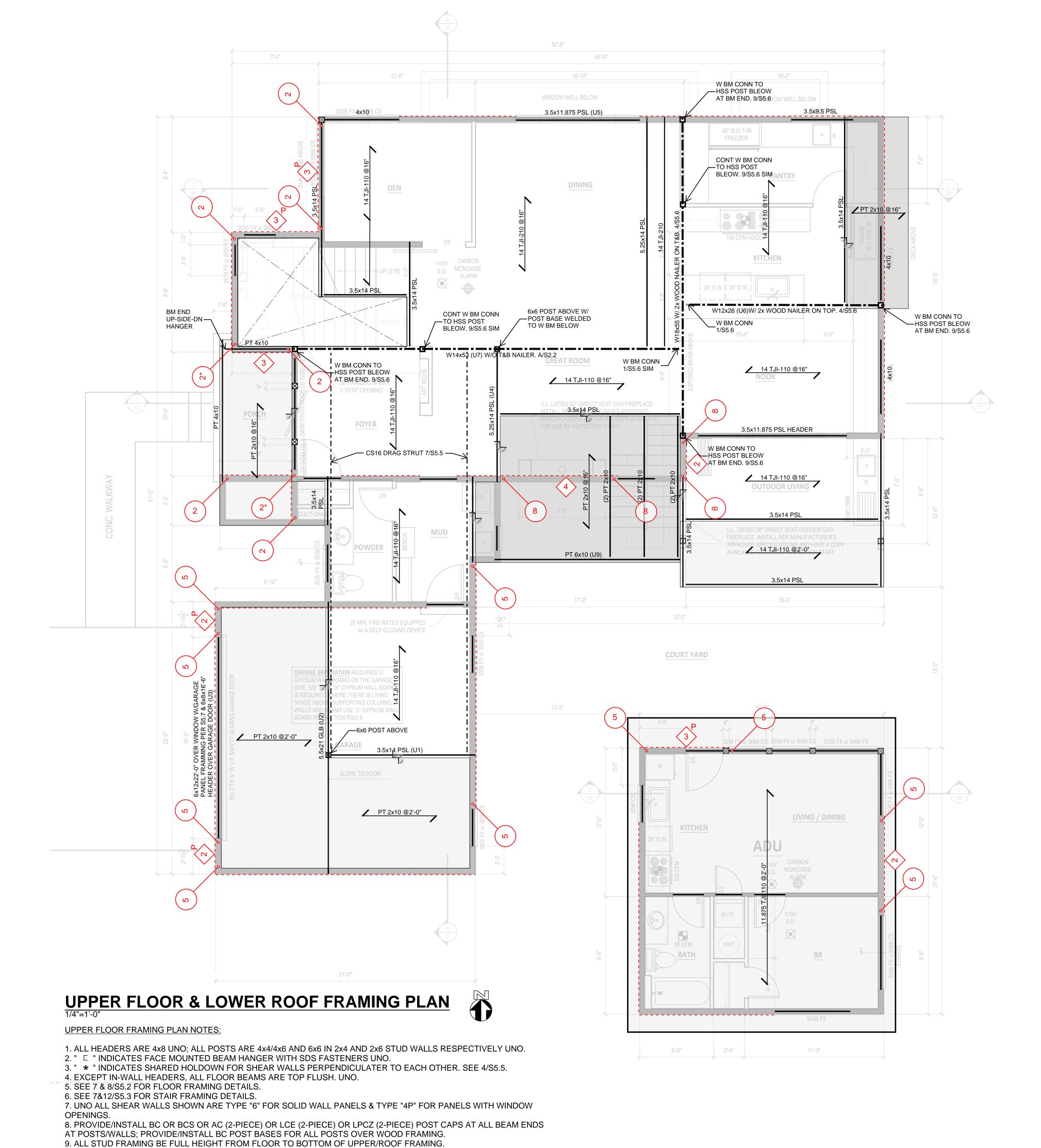
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COMBINED HOLDOWN ANCHOR FOR SHEAR WALLS PERPENDICULAR TO EACH OTHER SEE 4/S5.5

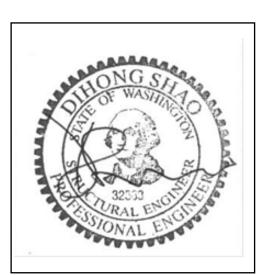


A "W" STL BM LATERAL BLOCKING SUPPORT



IS (22) ENGINEERS

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## O RESIDENCE 71ST AVENUE SI ER ISLAND WA 9804

2

NUMBER DATE DESCRIPTION OF REVISIONS

00 07.29.21 PERMIT SET

01 01.18.22 PERMIT REVIEW-1

SHEET TITLE

UPPER FLOOR & LOWER

ROOF FRAMING PLAN

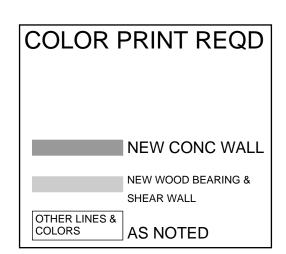
2720 MER

ROOF FRAMING PLAN

JOB NUMBER

SHEET NUMBER

**S2.2** 



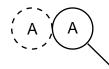
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X LINEAR FT OF TYPE Y SHEAR WALL; REFER TO 8/S5.5 FOR SCHEDULE AND DETAILS.



TYPE Y PERFORATED SHEAR WALL; REFER TO 6/S5.5 FOR



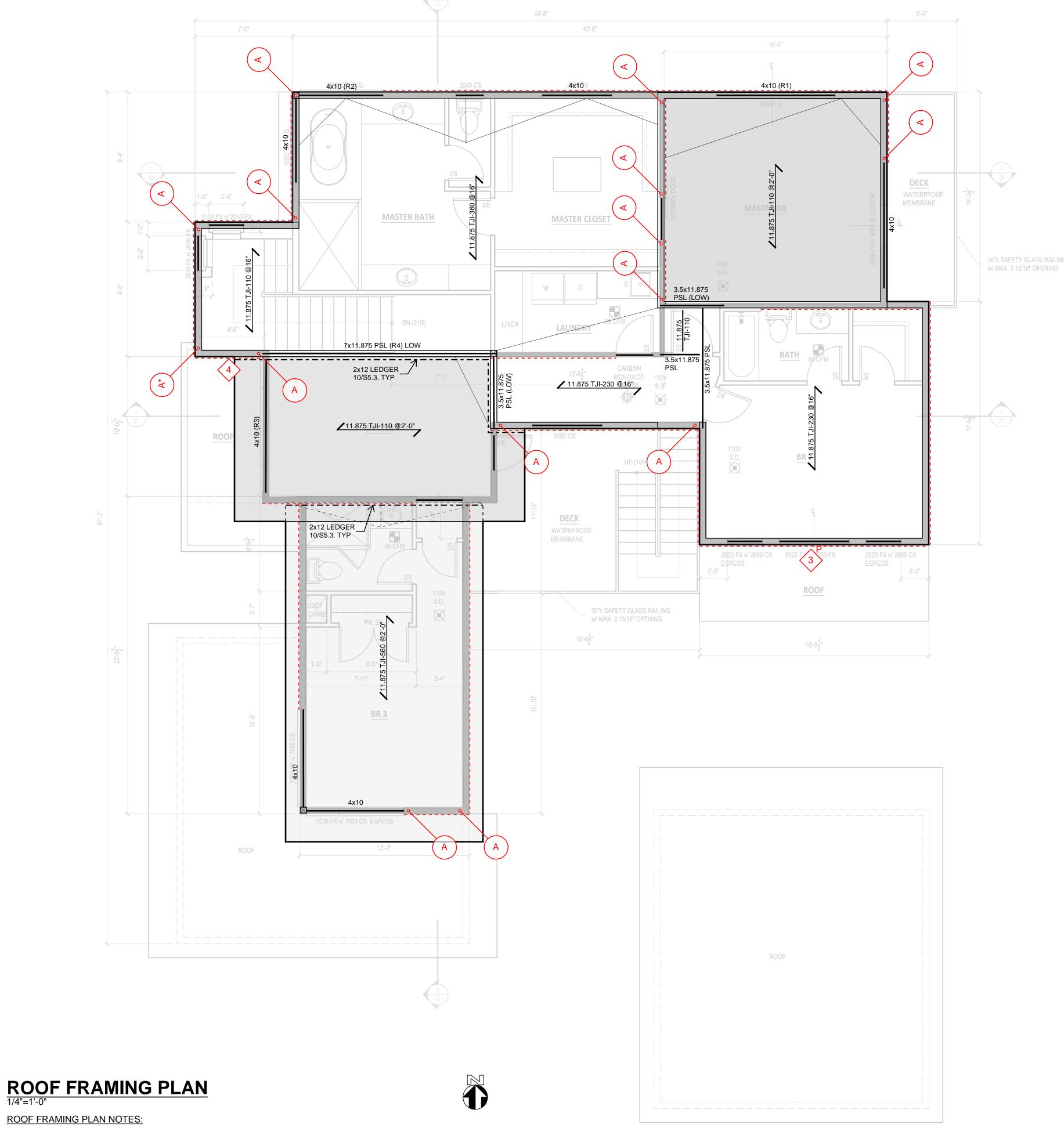
HOLDOWN STRAP TIES AT TOP (DASHED WHERE OCCURS) AND BOT OF SHEAR WALL PANEL BELOW; REFER TO 1/S5.2 FOR SCHEDULE. CENTER TOP AND BOT STRAPS TO BOT AND TOP OF RIM JOIST RESPECTIVELY & WRAP AROUND RIM JOIST AND/OR BM/HEADER ABOVE & BELOW WHEN TOO LONG



HOLDOWN STRAP TIES AT TOP (DASHED WHERE OCCURS) AND HOLDOWN ANCHOR IN CONC AT BOT OF SHEAR WALL PANEL BELOW; REFER TO 1/S5.2 & 1/S5.5 FOR SCHEDULES; CENTER TOP STRAP TO BOT OF RIM JOIST & WRAP AROUND RIM JOIST AND/OR BM ABOVE WHEN TOO LONG



★ COMBINED HOLDOWN ANCHOR FOR SHEAR WALLS PERPENDICULAR TO EACH OTHER SEE 4/S5.5



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2720 MER(

**ROOF FRAMING PLAN** 

CITY STAMP

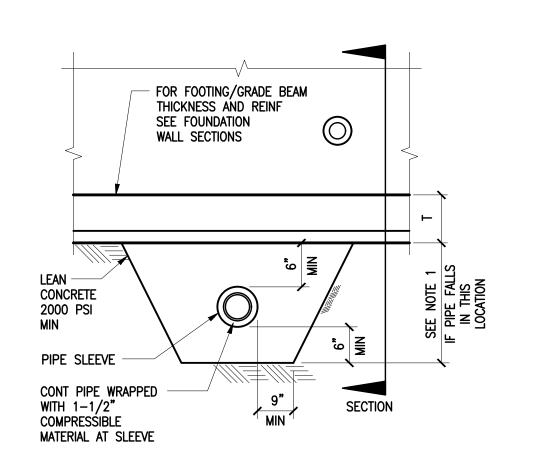
**ROOF FRAMING PLAN NOTES:** 

- 1. ALL HEADERS ARE 4x8 UNO; ALL POSTS ARE 4x4/4x6 AND 6x6 IN 2x4 AND 2x6 STUD WALLS RESPECTIVELY UNO.
- 2. " [ "INDICATES FACE MOUNTED BEAM HANGER WITH SDS FASTENERS UNO.
- 3. \* INDICATES SHARED HOLDOWN FOR SHEAR WALLS PERPENDICULATER TO EACH OTHER. SEE 4/S5.5. 4. EXCEPT IN-WALL HEADERS, ALL BEAMS ARE TOP FLUSH AT LOWER ROOF. UNO.
- 5. SEE 3 & 4/S5.2 FOR TYPICAL ROOF FRAMING DETAILS.
- 6. SEE 5 & 9/S5.2 FOR TALL PARAPET DETAILS.
- 7. UNO ALL SHEAR WALLS SHOWN ARE TYPE "6" FOR SOLID WALL PANELS & TYPE "4P" FOR PANELS WITH WINDOW OPENINGS.
- 9. ALL STUD FRAMING SUPPORTING ROOF FRAMING BE FULL HEIGHT FROM UPPER FLOOR TO BOT OF ROOF FRAMING.

NOTES:
1. SEE ARCH FOR STAIR DIMENSIONS AND CONFIGURATION.

STAIR ON GRADE

1/2"=1'-0"

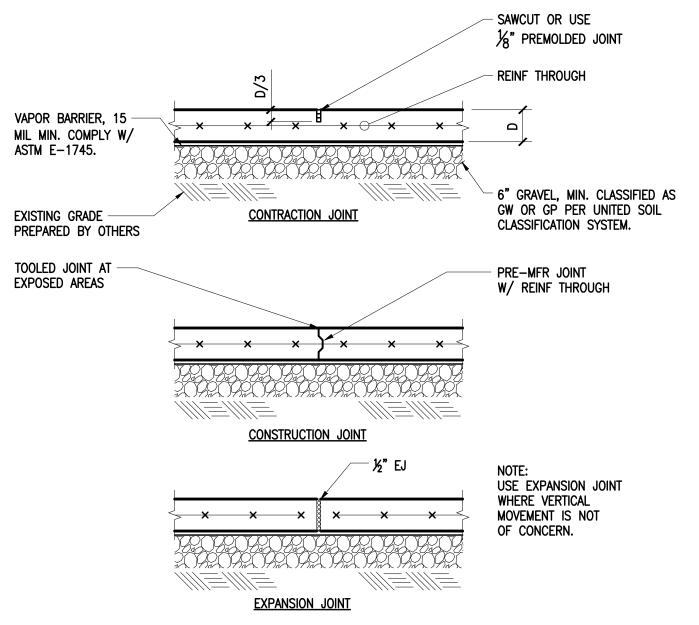


1. SINGLE PIPES 8"Ø OR LESS PERPENDICULAR TO AND GREATER THAN 24" CLEAR BELOW FOOTINGS DO NOT REQUIRE CONCRETE ENCASEMENT. (PIPE GROUPINGS BELOW 24" SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER).
2. PIPES LARGER THAN 8"Ø SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER.

PIPE CLEARANCE AT

STRIP FOOTING/GRADE BEAM

5) 1/2"=1'-0"



IF PIPE FALLS IN THESE LOCATIONS

PROVIDE PIPE SLEEVE AT FOUNDATION AND WRAP THE CONT PIPE WITH 1-1/2" COMPRESSIBLE MATERIAL, TYP

NO PIPE THIS AREA STEP FOOTING & SLEEVE PIPE THRU WALL

SLEEVE PIPE & CAST FOOTING

TO BOTTOM OF

BACKFILL AND

COMPACT TRENCH

SEE SOILS REPORT

SLAB JOINT DETAILS

NOTE: REBAR NOT SHOWN

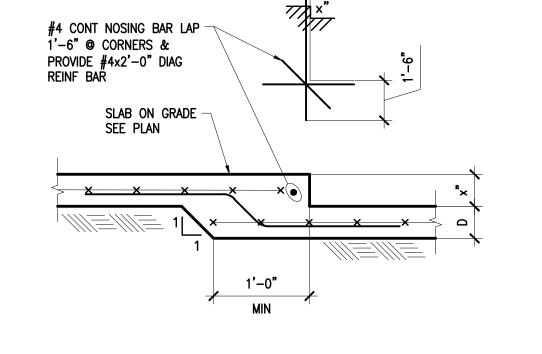
UTILITY/PIPE TRENCH PARALLEL

TO FOOTING

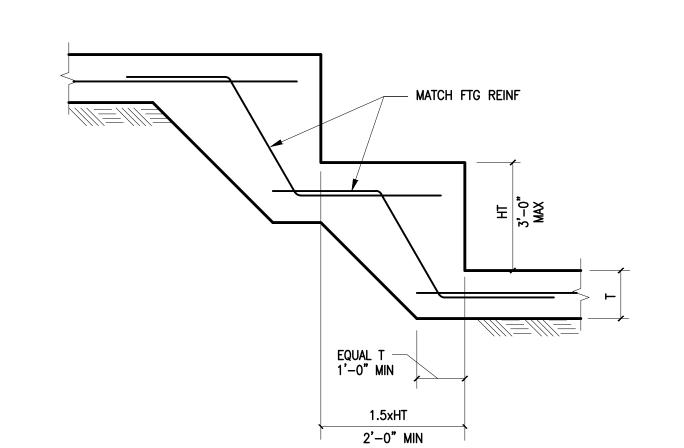
18**"** 

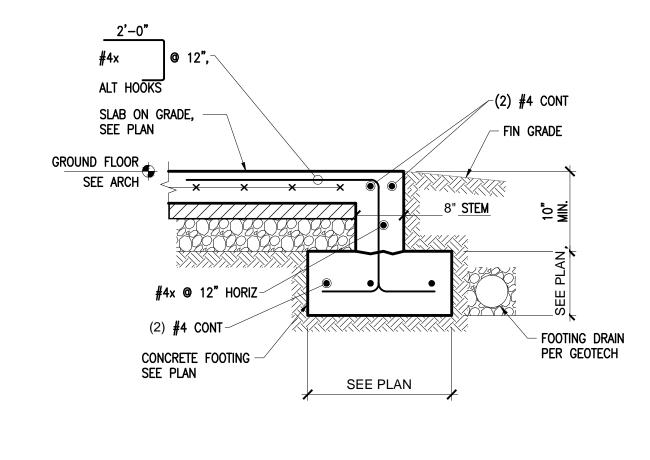
NO VERTICAL PIPES

THIS AREA

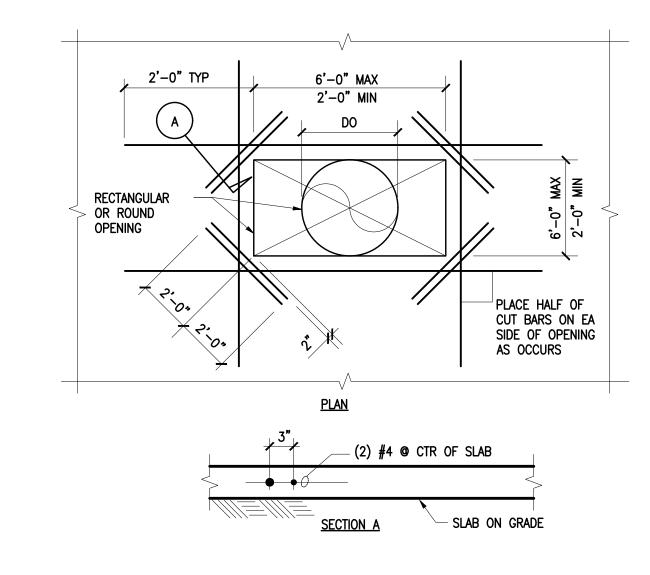


DEPRESSED SLAB ON GRADE





SLAB EDGE AT GARAGE DOOR



8 OPENING IN CONCRETE SLAB

L 12" MIN	1½" MIN 6" MAX
	TOP REINF
1½" OR WIRED IN CONTACT	SLOPE 1:12 MAX, TYP BOT REINF
	L

1. SCHEDULE APPLIES TO UNCOATED GRADE 60 BARS IN NORMAL WEIGHT CONCRETE.

- 2. FOR LIGHTWEIGHT CONCRETE MULTIPLY LENGTH IN SCHEDULE BY 1.3.
- 3. ALL SPLICES SHALL BE CLASS B SPLICES UNLESS INDICATED OTHERWISE. 4. TOP BARS (INDICATED WITH "T" IN SCHEDULE) ARE HORIZONTAL TOP BARS WITH MORE THAN 12" OF CONC CAST BLW THE BARS. 5. BOTTOM BAR'S (INDICATED WITH "B" IN SCHEDULE) ARE ALL VERTICAL BARS AND HORIZONTAL BARS WITH LESS THAN 12" OF
- CONCRETE CAST BELOW HORIZONTAL BARS. 6. ANY PORTION OF A STRAIGHT BAR EMBEDMENT LENGTH NOT WITHIN THE CONFINED CORE SHALL BE INCREASED BY A FACTOR OF 1.6. 7. ALL HORIZONTAL SPLICES SHALL BE STAGGERED AS SHOWN. IF MORE THAN 50% OF VERTICAL REINFORCING IS LAP SPLICED WITHIN THE
- REQUIRED LAP SPLICE LENGTH. THE LAP SPLICE LENGTH SHALL BE INCREASED BY 33%.

  8. LAP SPLICES LISTED IN THE SCHEDULE ARE CLASS B LAPS, FOR CLASS A LAPS REDUCE LENGTH BY 25%. 9. FOR f'c=4500psi USE VALUES FOR 4000psi.

			S	PLIC	E O	R DE	EVEL	OPM	ENT	LEN(	STH	(INC	HES)					
		"CLASS B" TENSION LAP SPLICE SCHEDULE																
NORMAL WT.	0.375 <b>"</b> #3				0.625" 0. #5		0.750"		0.875"		1.000"		1.128"		1.270"		1.410"	
CONCRETE f'c (psi)							#	#6		#7 i		#8		9	#10		#11	
	Т	В	Т	В	Т	В	Т	В	Т	В	Т	В	Т	В	Т	В	Т	В
3000	28	22	38	29	47	36	56	43	81	63	93	72	105	81	116	90	128	98
4000	25	19	33	25	41	31	49	37	71	54	81	62	91	70	101	78	111	8
5000	22	17	29	23	36	28	44	34	63	49	72	56	81	63	90	69	99	70
6000	20	16	27	21	33	26	40	31	58	45	66	51	74	57	82	63	90	70
- DEVELOPMENT LENGTH "Ld" SCHEDULE																		
3000	22	17	29	22	36	28	43	33	63	48	72	55	81	62	90	69	98	70
4000	19	15	25	19	31	24	37	29	54	42	62	48	70	54	78	60	85	60
5000	17	13	23	17	28	22	34	26	49	38	56	43	63	48	69	54	76	5
6000	16	12	21	16	26	20	31	24	45	34	51	39	57	44	63	49	70	54

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TYPICAL CONCRETE DETAIL

JOB NUMBER **S5.1** 

CITY STAMP

REINFORCING SPLICE SCHEDULE

- WALL SHEATHING

- 2x6 STUDS @ 16" O.C.

(2) 8d @ 3", STAGGERED

- ROOF SHEATHING - (5) 8d INTO EA. BLOCK

2x BLOCKING (D) STRAP

A35 PER SHEARWALL SCHEDULE

ROOF - WALL DETAIL

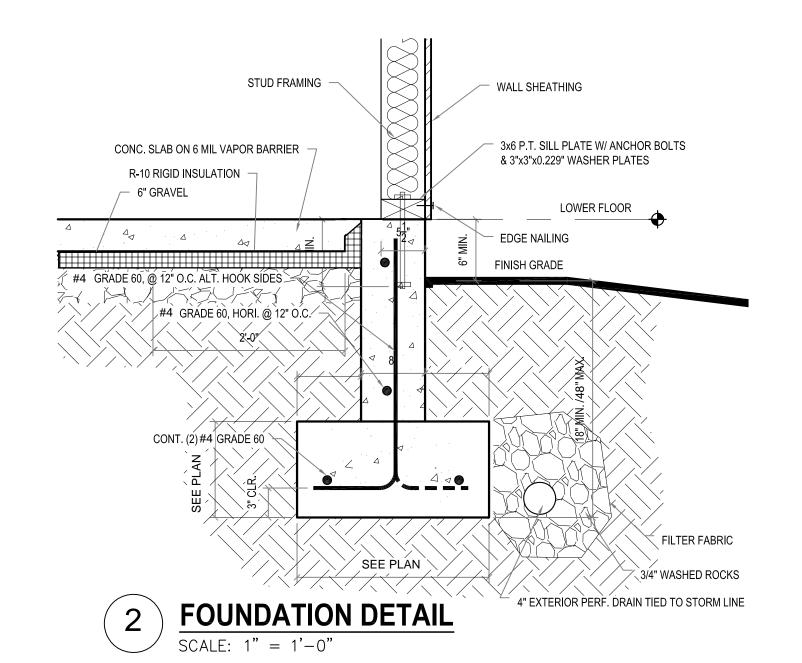
ROOF - WALL DETAIL

SCALE: 1" = 1'-0" (JOIST PERPENDICULAR TO SHEARWALL)

-ROOF TRUSS OR I JOIST

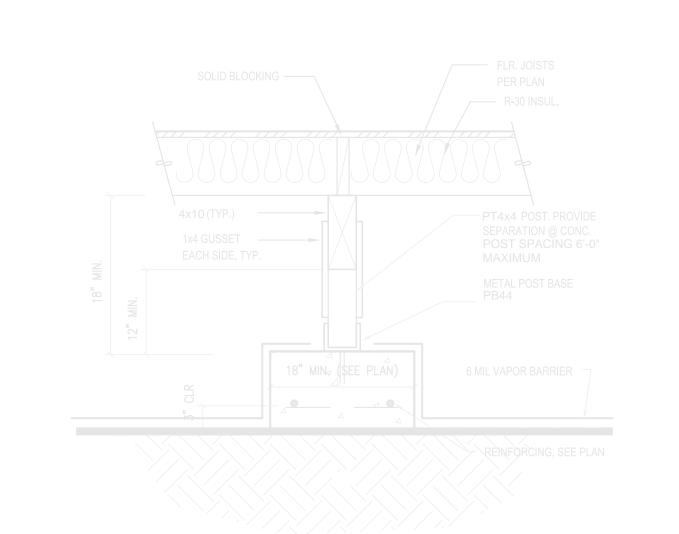
BLK'G @ 48" O.C.

- (2) 16d TOENAILS THRU EA. BLOCK

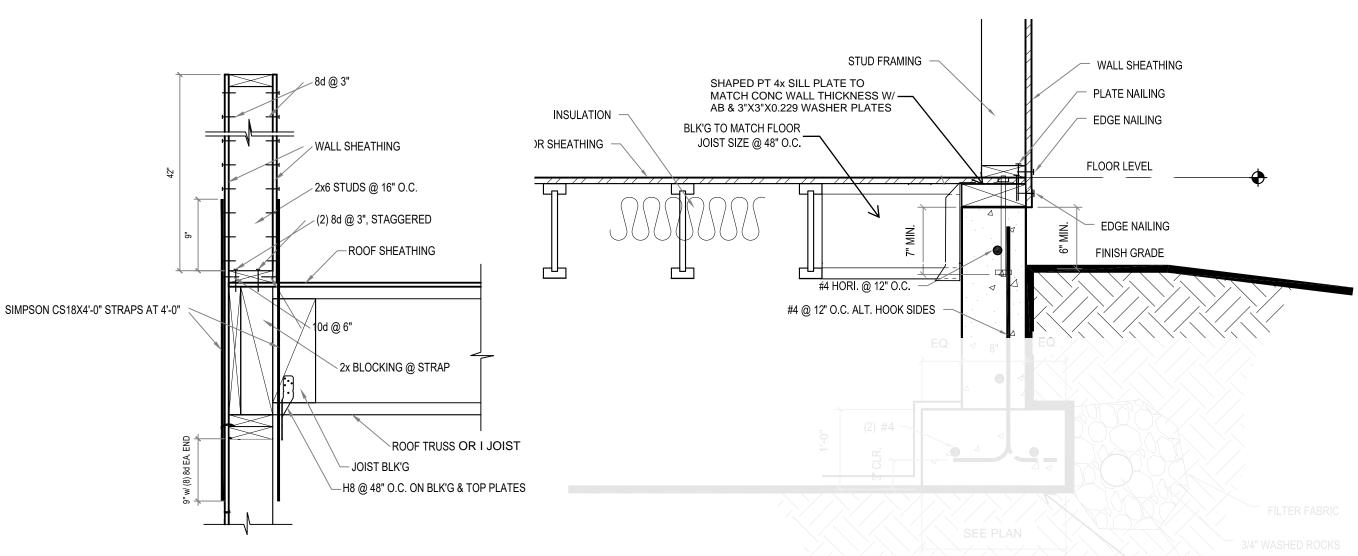




SIMPSON CS18X4'-0" STRAPS AT 4'-0"



6 FOUNDATION DETAIL



10 FOUNDATION DETAIL

SCALE: 1 = 1'-0"



ROOF LEVEL

ROOF LEVEL

ROOF TRUSS SEE PLAN

ROOF TRUSS SEE PLAN

ROOF TRUSS SEE PLAN

ROOF TRUSS SEE PLAN

OR TJI

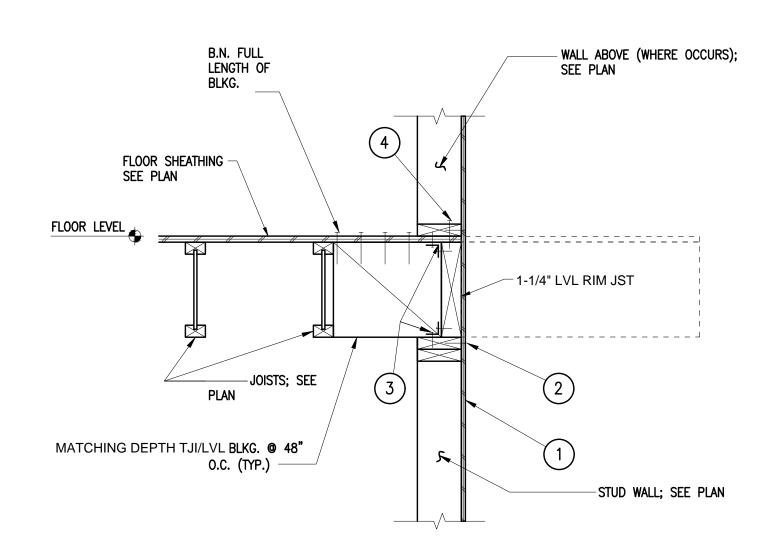
TJI OR TRUSS
BLKG PANEL © 48" OC
BY TRUSS MFR

1

STUD WALL; SEE PLAN

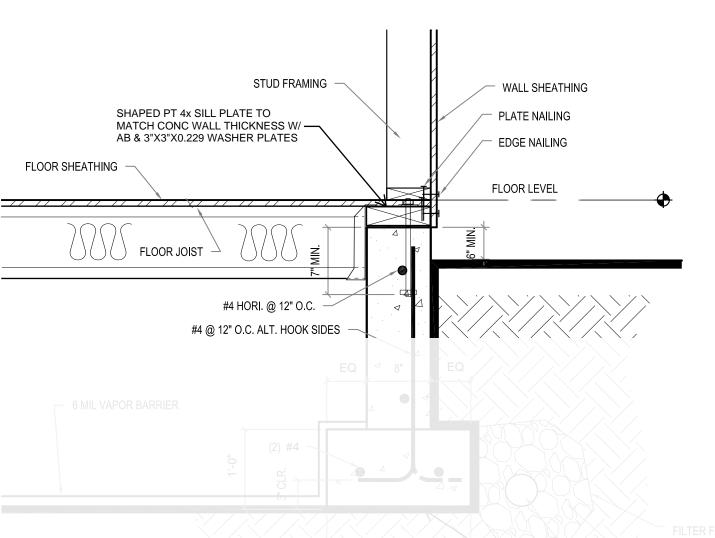
NOTES:
1. SEE 8/S5.5 FOR ITEMS NOT CALLED OUT ON THIS DETAIL AND FOR SHEAR WALL SCHEDULE & HARDWARE.

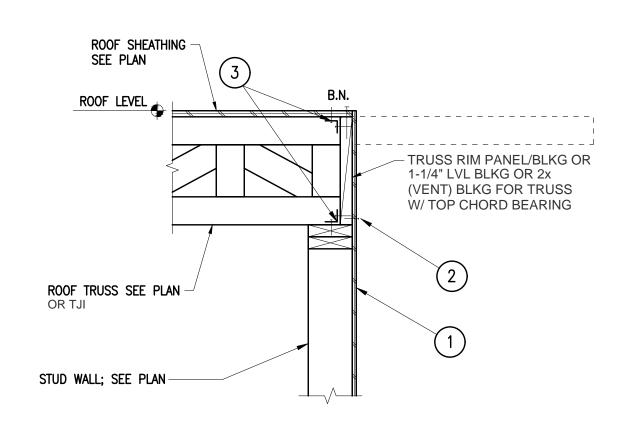
ROOF TRUSSES PARALLEL



NOTES:
1. SEE 8/S5.5 FOR ITEMS NOT CALLED OUT ON THIS DETAIL AND FOR SHEAR WALL SCHEDULE & HARDWARE.





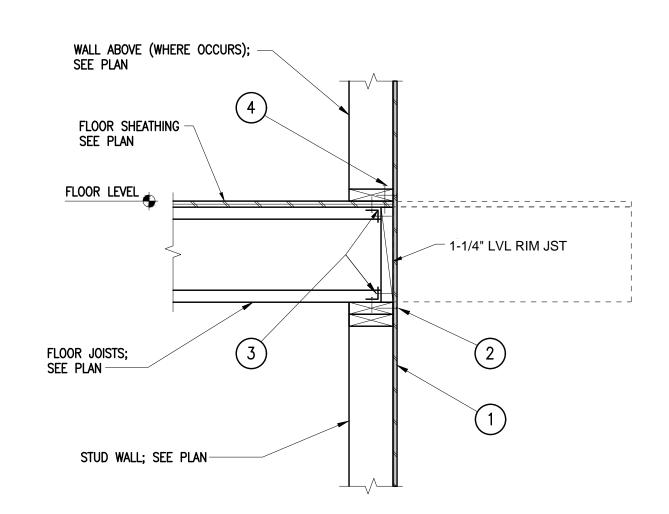


NOTES:

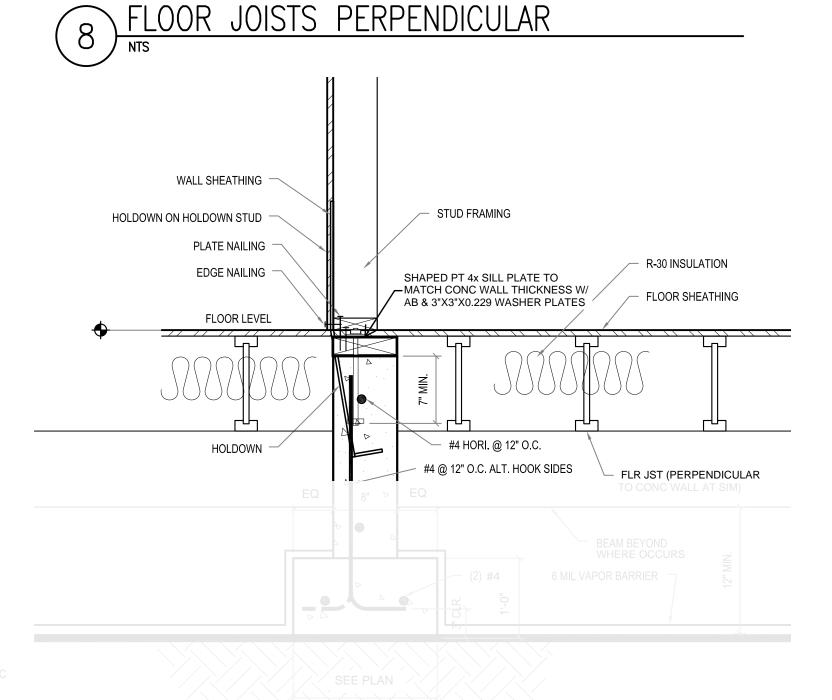
1. SEE 8/S5.5 FOR ITEMS NOT CALLED OUT ON THIS DETAIL AND FOR SHEAR WALL SCHEDULE & HARDWARE.

2. WHERE THERE IS NO WALL ABOVE, USE  $\#6 \times \frac{34}{4}$ " LONG SCREWS TO SHEATHING ABOVE.

4 ROOF TRUSSES PERPENDICULAR



1. SEE 8/S5.5 FOR ITEMS NOT CALLED OUT ON THIS DETAIL AND FOR SHEAR WALL SCHEDULE & HARDWARE.



2 FOUNDATION DETAIL
SCALE: 1 = 1'-0"

HSEATTLE (201) 3R SEATTLE (201) 7R

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ONG SHADOWANT OF WASHINGTON OF WASHINGTON OF WASHINGTON OF WASHINGTON OF THE WASHING

2720 RESIDENCE
2720 71ST AVENUE SE
MERCER ISLAND WA 98040

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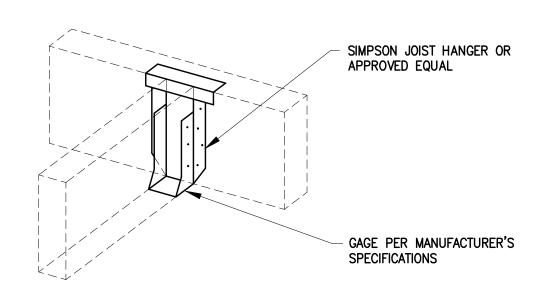
SHEET TITLE

TYPICAL FRAMING DETAIL

S5.2

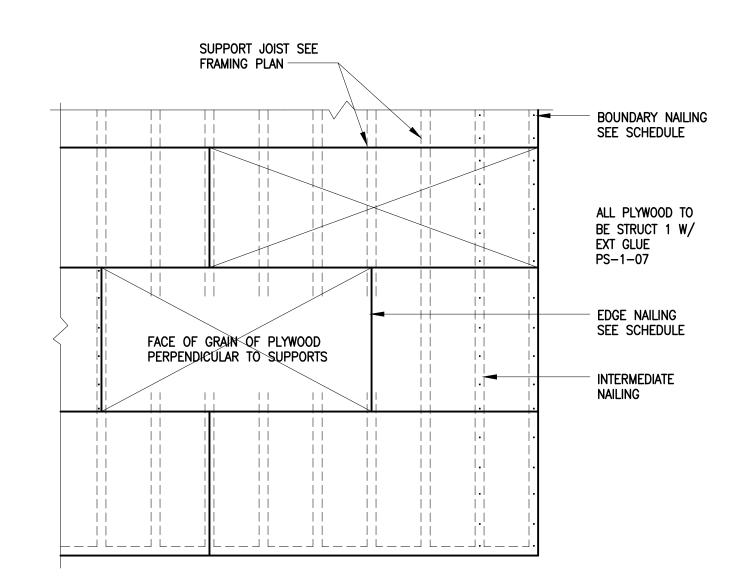
CITY STAMP

JOB NUMBER



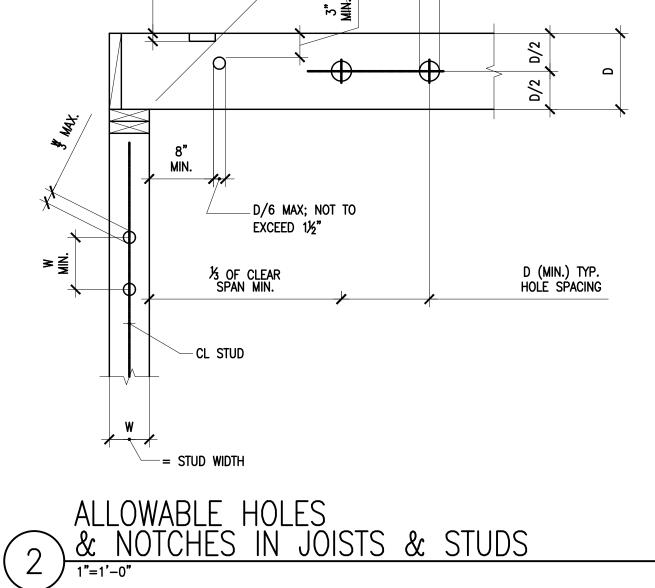
THIS TYPE OF HANGER TO BE USED TYPICAL WHERE APPLICABLE UNLESS NOTED OR SHOWN OTHERWISE ON THE PLANS AND DETAILS. USE SIZE AND TYPE OF NAILS AS REQUIRED BY MANUFACTURER AND FULLY DRIVE IN ALL NAILS.

1) HANGER DETAIL AND SCHEDULE



DIAPHRAGM SCHEDULE									
LOCATION	PLYWOOD	PANEL ID	BOUN. NAILS	EDGE NAILS	INTER. NAILS				
FLAT ROOF DECK	<sup>2</sup> ⅔₂" STRUCT 1 T&G OSB	40/20	10d @ 4"	10d @ 6"	10d <b>@</b> 12"				
SLOPED ROOF	<sup>2</sup> 3/ <sub>32</sub> " STRUCT 1 T&G OSB	40/20	10d @ 4"	10d @ 6"	10d @ 12"				
FLOOR	<sup>23</sup> / <sub>32</sub> " STRUCT 1 T&G OSB	40/20	10d <b>©</b> 4"	10d <b>©</b> 6"	10d @ 12"				

- 1. USE BOUNDARY NAILING AT ALL HIPS, RIDGES, VALLEYS AND OPENINGS.
- 2. USE COMMON NAIL FOR ALL DIAPHRAGM NAILING.
- 3. PLYWOOD SHALL BE GLUED (SUB-FLOOR ADHESIVE) FOR FLOORS. 4. USE  $^{23}$ /<sub>32</sub>" PLYWOOD T & G AT FLAT ROOF.
- 5. MIN EDGE DISTANCE FOR NAILS SHALL BE 3/8".
- 6. MIN SHEATHING SHEET SIZE SHALL BE 2'-0"x4'-0". 7. NAILS SHALL NOT BE OVERDRIVEN. OPERATOR TO ADJUST AIR PRESSURE OF
- PNEUMATIC NAILER AS REQUIRED TO AVOID HEAD OF NAIL PENETRATING SKIN OF PLYWOOD SHEATHING.
- 8. NAILS SHALL BE COMMON WIRE TYPE. 9. SEE PLANS FOR AREAS OF BLOCKED DIAPHRAGMS.
- 10. USE BOUNDARY NAILING AT ALL CONNECTIONS TO SHEAR WALLS.

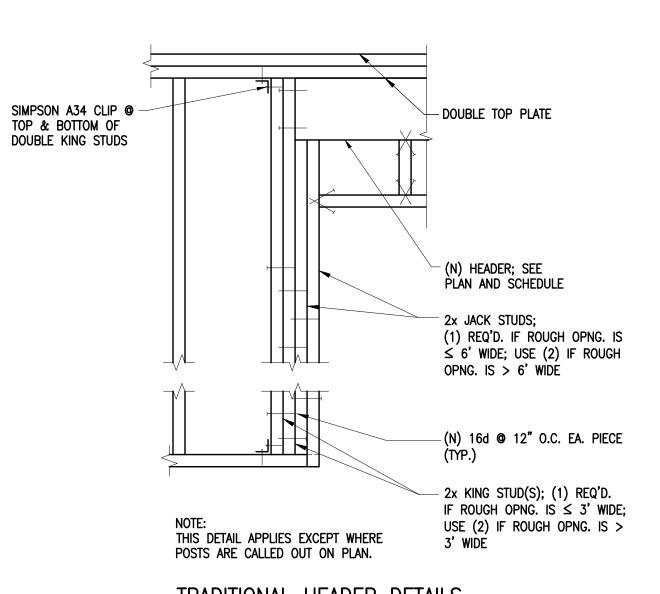


D/4 MAX.; NOT TO

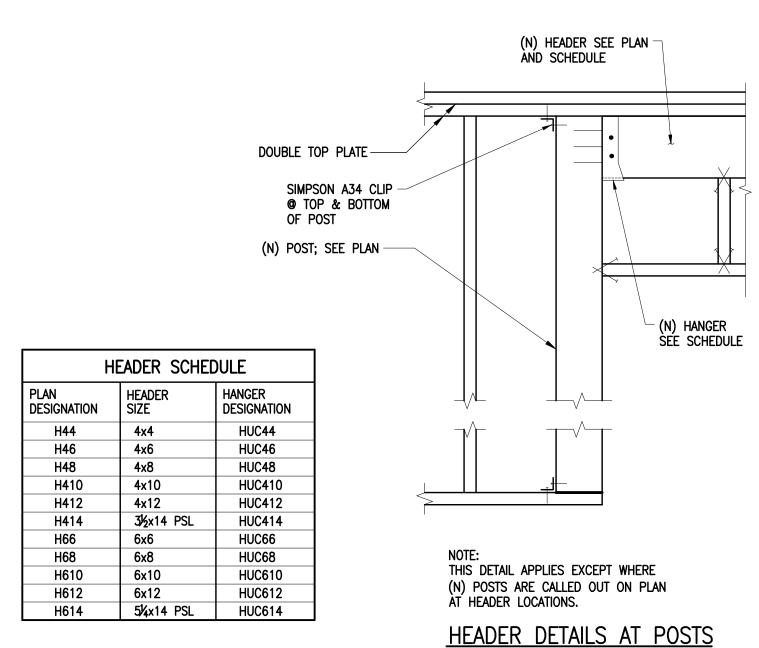
EXCEED 3"

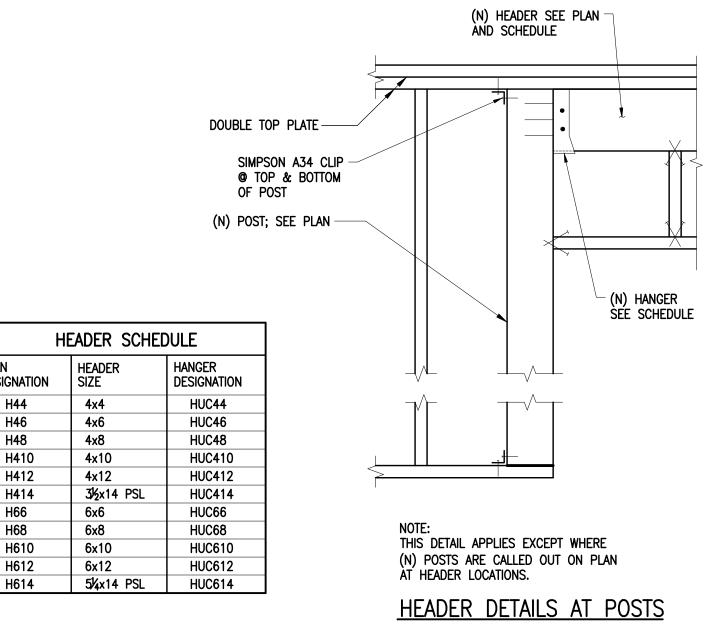


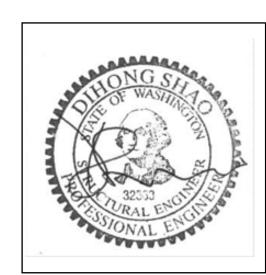
NOTCHES NOT PERMITTED -





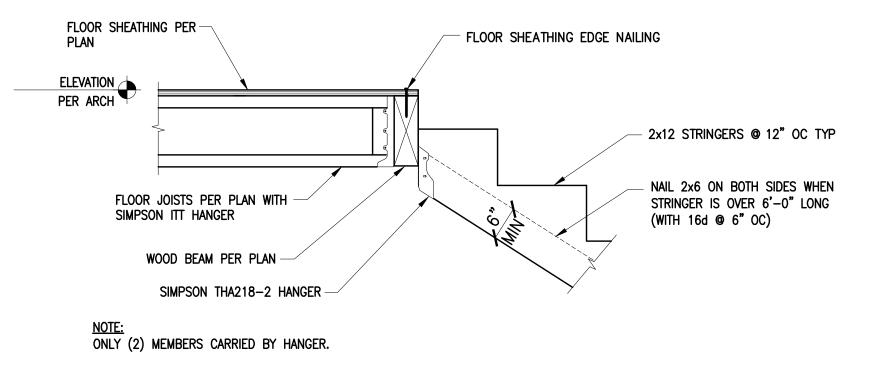




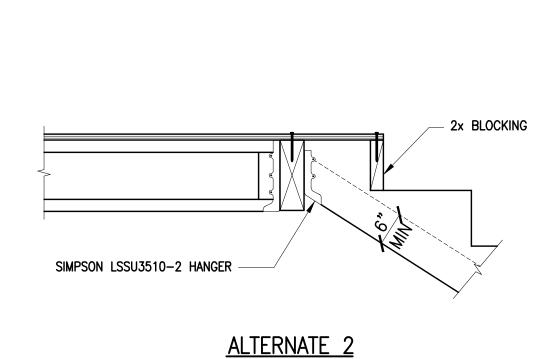


ENGINEE

TYPICAL HEADER DETAILS











NOTE: SEE GN & TYPICAL FRAMING DETAILS FOR ALL OTHER FRAMING INFO

----<del>/</del>--<u>-</u>---

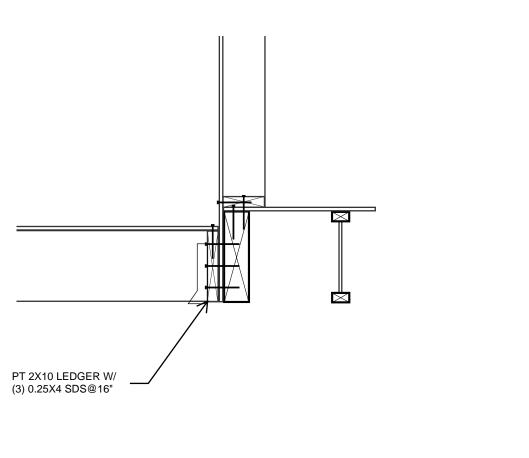
2X6/2X10 LEDGER PLAN W/ (2)/(3) 0.25X4 SDS ON — EACH STUD OR @16"

LOWER ROOF

OR FLR JOISTS

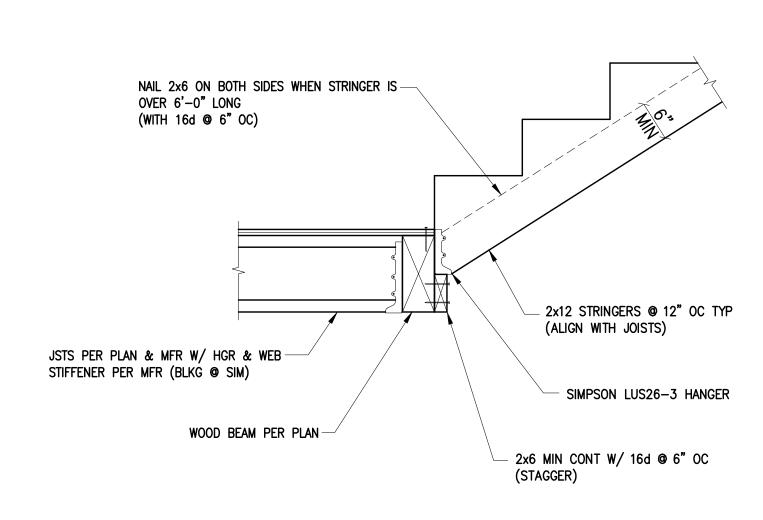
TRUSSES/RAFTERS —

LOWER ROOF FRAMING AT EXTERIOR WALL



NOTE: SEE GN & TYPICAL FRAMING DETAILS FOR ALL OTHER FRAMING INFO

DECK FRAMING AT FLOOR & EXTERIOR WALL



STRINGER CONNECTION

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NUMBER DATE DESCRIPTION OF REVISIONS 00 07.29.21 PERMIT SET 01 01.18.22 PERMIT REVIEW-1 TYPICAL FRAMING DETAIL

**S5.3** 

CITY STAMP

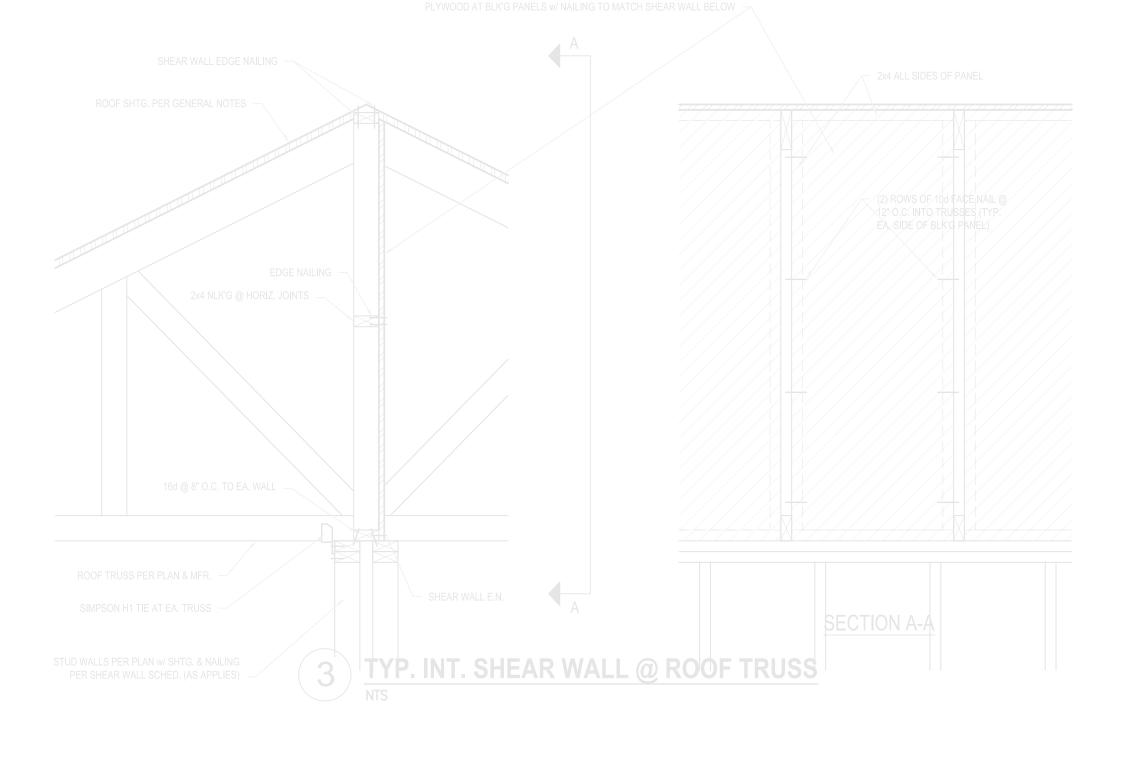
JOB NUMBER

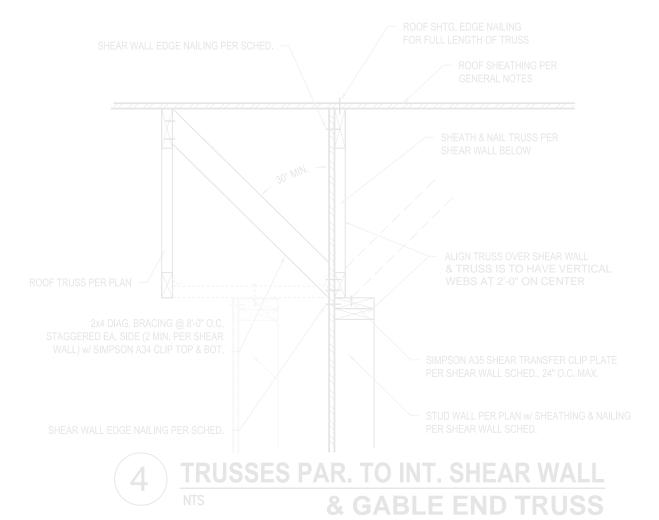
ROOF & FLOOR DIAPHRAGM

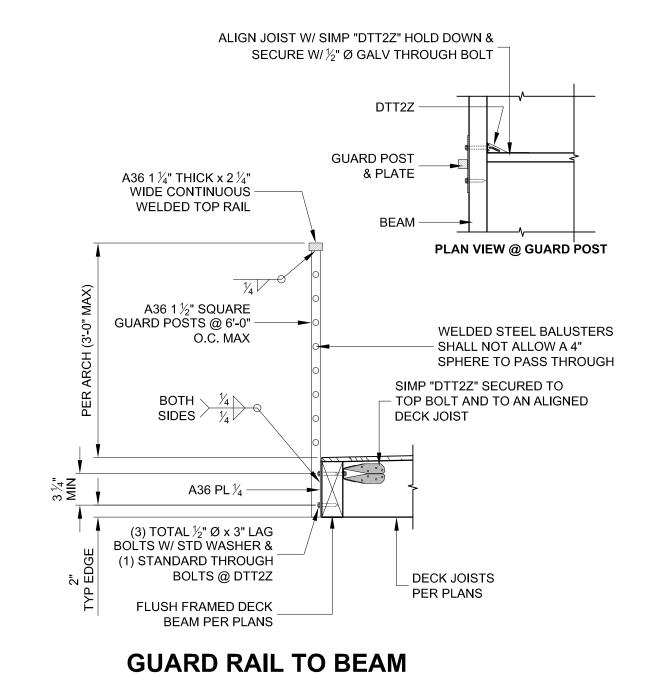
TYPICAL STAIR GUARD ELEVATION

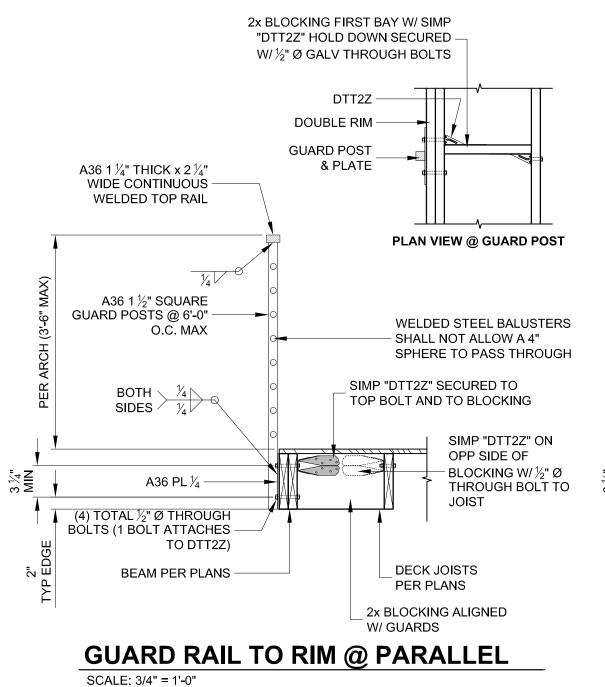
SCALE: 3/4" = 1'-0"

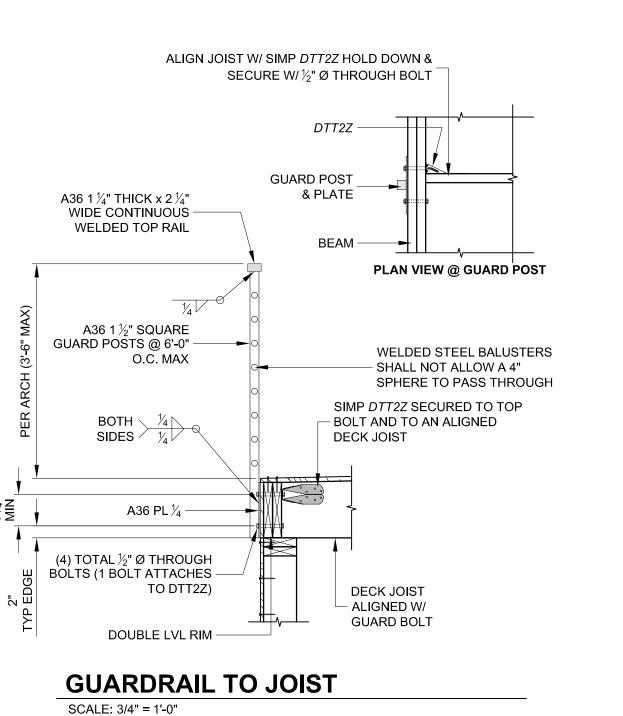
SCALE: 3/4" = 1'-0"

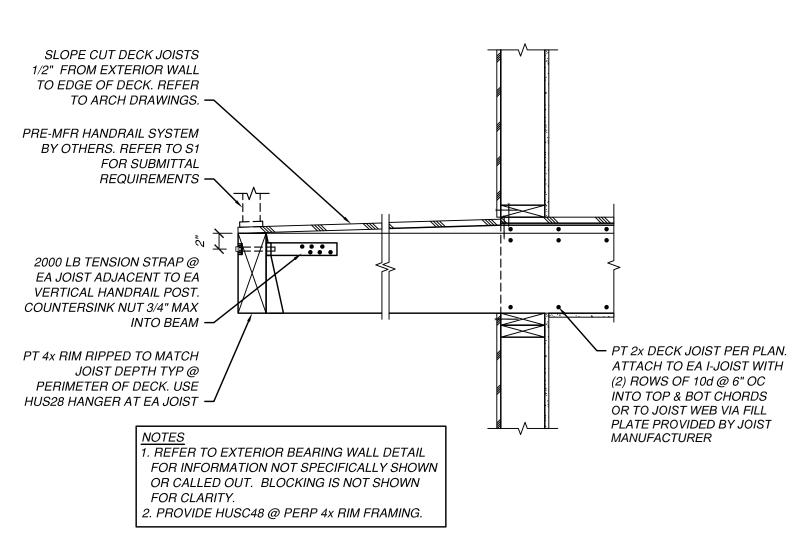








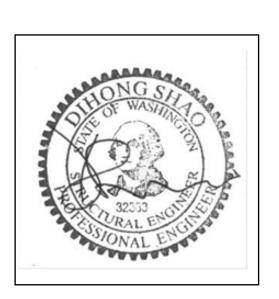




DECK DETAIL

SCALE: 1" = 1'-0"

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## 2720 RESIDENCE 2720 71ST AVENUE SE MERCER ISLAND WA 98040

NUMBER	DATE	DESCRIPTION OF REVISI
00	07.29.21	PERMIT SET
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DECK AND RAILING DETAILS

JOB NUMBER

MBER C 5

**S5.**4

HOLDOWN SCHEDULE					
	SIMPSON	WALL CTUD	CTUD CIZE	ANCHOR ROD	
TYPE	HARDWARE	WALL STUD SIZE; SEE PLAN	STUD SIZE AT HOLDOWN	DIA.	EMBEDMENT (SEE 2/S5.5)
	HDU2	4" STUDS	4x4* 5,,"	5%"	0,"
(2)	11002	6" STUDS	4x6*	78	8"
	LIDITA	4" STUDS	4x4*	5%"	9"
(4)	HDU4	6" STUDS	4x6*		
(5)	LIDLIE	4" STUDS	4x4	5%"	10"
(5)	HDU5	6" STUDS	4x6		
(8) HDU8	4" STUDS	4x4	7/"	12"	
(8)	11000	6" STUDS	4x6	7∕8"	12
(11) HDU11	LIDUA	4" STUDS	4x4	1"	14"
	ווטעוו	6" STUDS	4x6		
	HDU14	4" STUDS	4x4	1"	14"
(14)		6" STUDS	4x6		

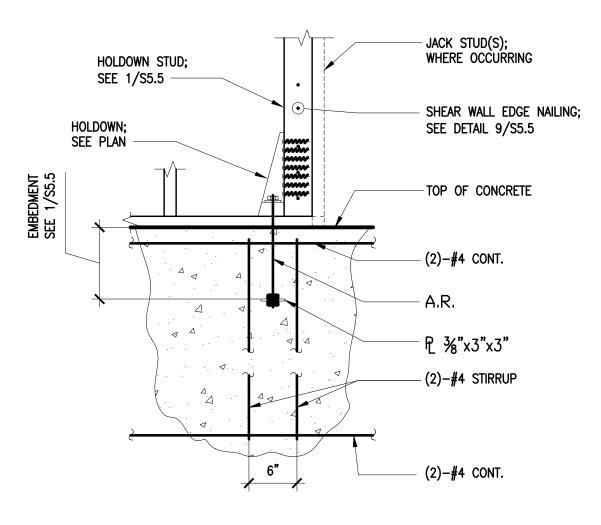
- SEE PLAN FOR HODOWN TYPES AND LOCATIONS.
- 2. SEE PLAN FOR TYPICAL STUD SIZES IN SHEARWALLS.
- 3. REFER TO DETAIL 2/S5.5 FOR TYPICAL HOLDOWN INSTALLATION DETAILS.
- 4. ALT. USE (2) 2x STUDS.

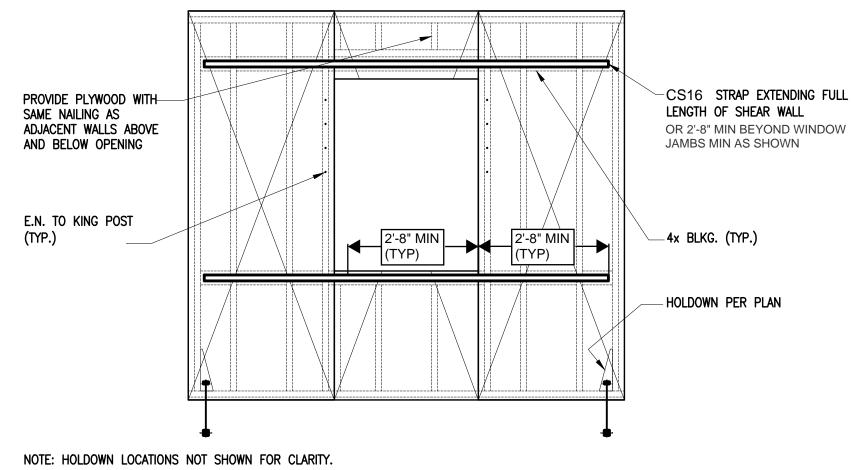
HOLDOWN SCHEDULE

_							
		SHEAR WALL SCHEDULE					
	TYPE	STUD SIZE AND SPACING*	PLYWOOD(1) SHEATHING	EDGE NAILS ② FIELD NAILS	FRAMING CLIPS(3)	SOLE PLATE NAILING (4)	SILL PLATE BOLTS 5
	2	2x STUDS @ 16" O.C. PER PLAN	<sup>15</sup> ⁄ <sub>32</sub> " PLYWOOD	10d @ 2" O.C. 10d @ 12" O.C.	(2)-A35 @ 12" O.C.	16d <b>@</b> 2½" O.C	%" ø BOLTS ⊚ 16" O.C.
	3	2x STUDS @ 16" O.C. PER PLAN	<sup>15</sup> ⁄ <sub>32</sub> " PLYWOOD	10d @ 3" O.C. 10d @ 12" O.C.	A35 @ 9" O.C.	16d @ 3" O.C.	%" ø BOLTS @ 24" O.C.
	4	2x STUDS @ 16" O.C. PER PLAN	<sup>15</sup> ⁄ <sub>32</sub> " PLYWOOD	10d @ 4" O.C. 10d @ 12" O.C.	A35 @ 12" O.C.	16d @ 4" O.C.	%" ø BOLTS @ 32" O.C.
	6	2x STUDS @ 16" O.C. PER PLAN	<sup>15</sup> ⁄ <sub>32</sub> " PLYWOOD	10d @ 6" O.C. 10d @ 12" O.C.	A35 @ 18" O.C.	16d @ 6" O.C.	%" ø BOLTS @ 48" O.C.

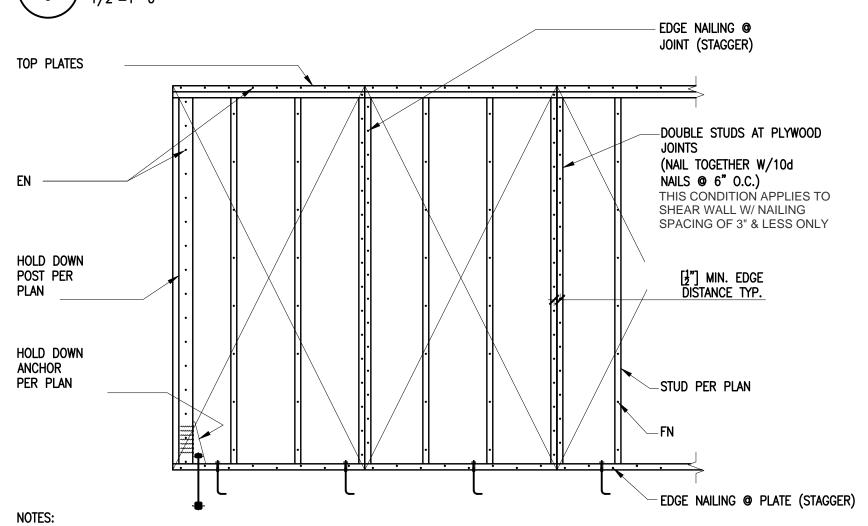
- 1. SEE PLANS FOR SHEAR WALL TYPE, LOCATIONS, AND HOLDOWNS.
- 2. REFER TO SHEET S5.2 FOR TYPICAL SHEAR WALL CONSTRUCTION DETAILS.
- 3. REFER TO DETAIL 9/S5.5 FOR TYPICAL SHEAR WALL ELEVATION.
- 4. REFER TO DETAIL 2/S5.5 FOR TYPICAL HOLDOWN INSTALLATION DETAILS.
- 5. PLYWOOD SHALL BE PLACED ON THE SIDE OF THE WALL WHERE THE SYMBOL 🕎 OCCURS ON THE
- 6. ALL INFORMATION IN THE ABOVE SCHEDULE RELATES TO THE ITEMS SHOWN IN THE WALL SECTIONS ON SHEET S5.2. ALL COMPONENTS FOR EACH SHEAR WALL TYPE OCCUR IN THE WALLS BETWEEN THE LEVEL REPRESENTED BY THE FRAMING PLAN, WHERE THE SHEAR WALL TYPES AND LOCATIONS ARE SHOWN, AND THE LEVEL ABOVE.
- 7. <u>EXAMPLE:</u> A SHEAR WALL SHOWN ON THE GROUND FLOOR PLAN WITH A MARK 🕎 NEXT TO IT SHALL HAVE ALL REQUIRED COMPONENTS FOR TYPE 🕎 SHEAR WALL INSTALLED IN THE WALL BETWEEN THE GROUND FLOOR AND THE FIRST FLOOR.
- 8. AT CONCRETE FOOTINGS, USE 1/8" DIAMETER SILL PLATE BOLTS WITH MINIMUM 7" EMBEDMENT INTO THE CONCRETE. REFER TO THE SCHEDULE ABOVE FOR BOLT SPACING. SEE GENERAL NOTES FOR INFORMATION ABOUT ANCHOR RODS AND EPOXY BOLTS.
- 9. BLOCK ALL UNSUPPORTED PLYWOOD EDGES WITH MINIMUM 2x LAID FLAT BEHIND EDGES OF PLYWOOD.
- 10. SEE GENERAL NOTES FOR PLYWOOD GRADES AND SPECIFICATIONS.
- 11. AT WALLS WITH 2x STUDS, DOUBLE THE STUDS AT PLYWOOD JOINTS PER DETAIL 9/S5.5.

### 8 SHEARWALL SCHEDULE





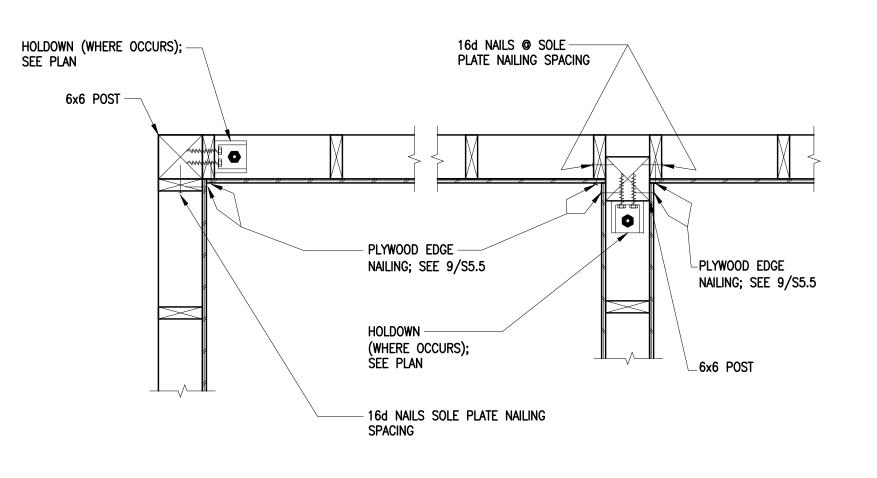
PERFORATED SHEARWALL ELEVATION



1. FOR ITEMS NOT NOTED SEE PLAN & SHEAR WALL SCHED.

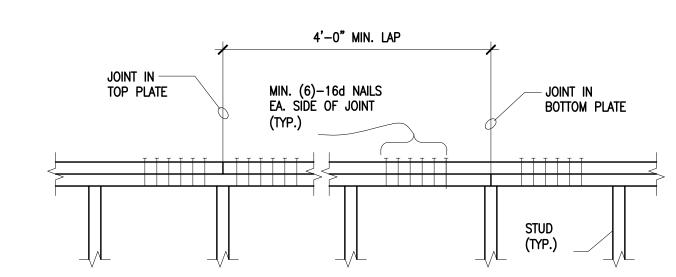
- MINIMUM PANEL DIMENSION IS 1'-0".
   USE FULL SIZE PANELS WHERE POSSIBLE.
- 4. FIELD NAILING (FN) @ 12" UON.
- 5. [2x] SOLID BLOCKING @ HORIZONTAL JOINTS.

### TYPICAL SHEARWALL ELEVATION



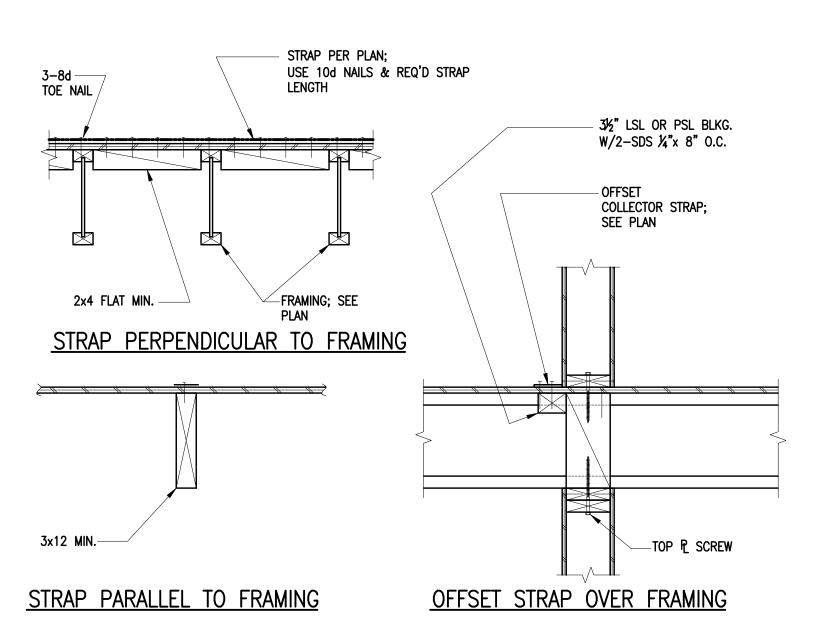
PLAN VIEW

SHEARWALL DETAILS AT WALL INTERSECTIONS SCALE: 1"=1'-0"



SEE PLAN AND DETAILS FOR SIZE OF STUDS AND DOUBLE TOP PLATE.

TYPICAL STUD WALL TOP PLATE SPLICE

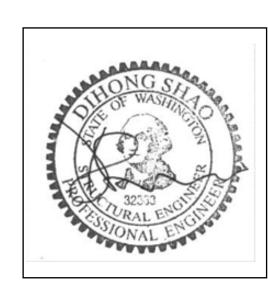


HORIZONTAL STRAP DETAIL

NTS

HS SENGINEE

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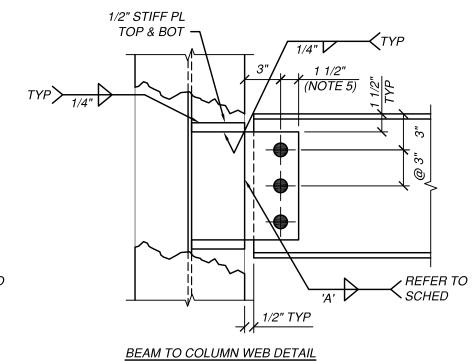


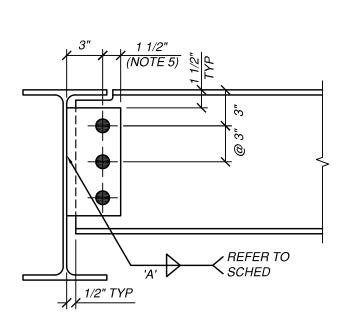
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2

NUMBER DATE DESCRIPTION OF REVISIONS 00 07.29.21 PERMIT SET 01 01.18.22 PERMIT REVIEW-1 LATERAL DETAIL AND **SCHEDULE** JOB NUMBER **S5.5** 

BEAM TO COLUMN FLANGE DETAIL



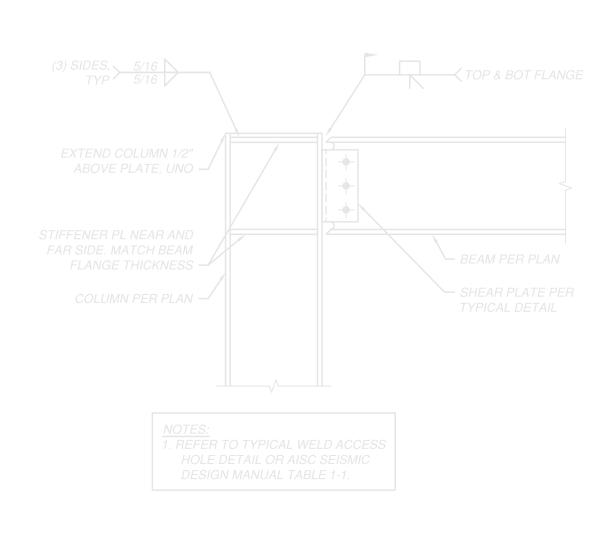


BEAM TO BEAM DETAIL

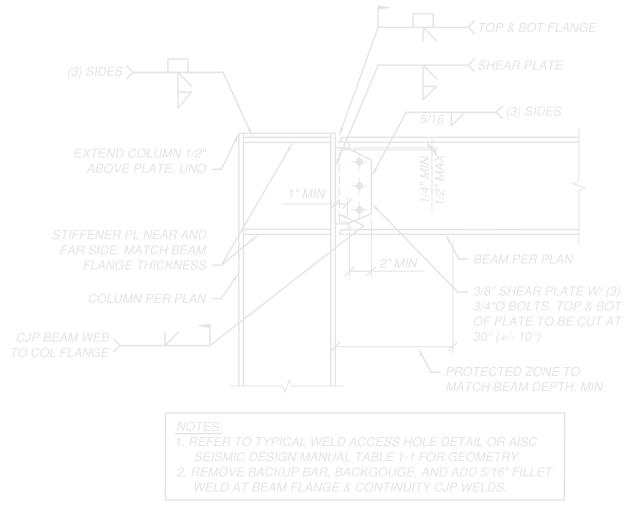
SHEAR PLATE SCHEDULE			EDULE
BEAM	SHEAF	BOLTS	
SIZE	THICK	WELD 'A'	REQ'D
W8	3/8"	5/16"	(2) 3/4"Ø
W10	3/8"	5/16"	(2) 3/4"Ø
W12	3/8"	5/16"	(3) 3/4"Ø
W14	3/8"	5/16"	(3) 3/4"Ø
W16	3/8"	5/16"	(4) 3/4"Ø
W18	3/8"	5/16"	(5) 3/4"Ø
W21	1/2"	3/8"	(5) 1"Ø
W24	1/2"	3/8"	(6) 1"Ø
W27	1/2"	3/8"	(7) 1"Ø

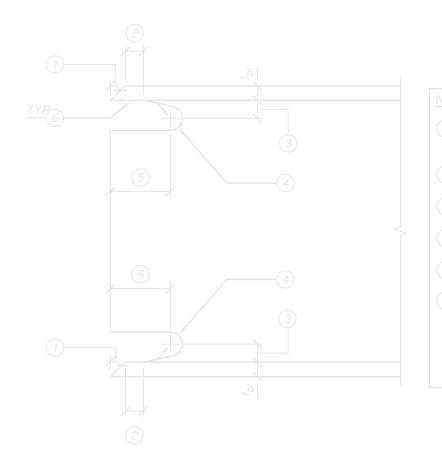
- ALL CONNECTION PLATES SHALL BE A36 STEEL. 2. ALL BOLTS SHALL BE A325-N AND SHALL BE INSTALLED PER
- AISC SPECIFICATIONS. 3. BOLT HOLES SHALL BE STANDARD SIZE. OVERSIZED HOLES
- ARE NOT PERMITTED. 4. SCHEDULE APPLIES TO ALL SHEAR CONNECTIONS UNO. 5. INCREASE TO 1 3/4" FOR 1"Ø BOLTS

### TYPICAL SHEAR PLATE CONNECTION DETAIL



TYPICAL MOMENT CONNECTION

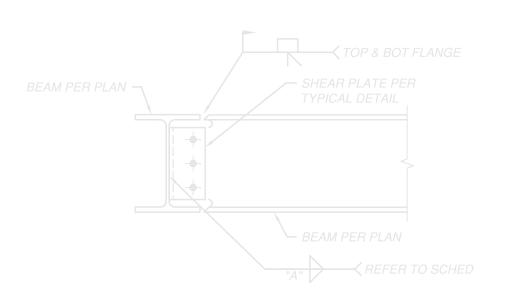


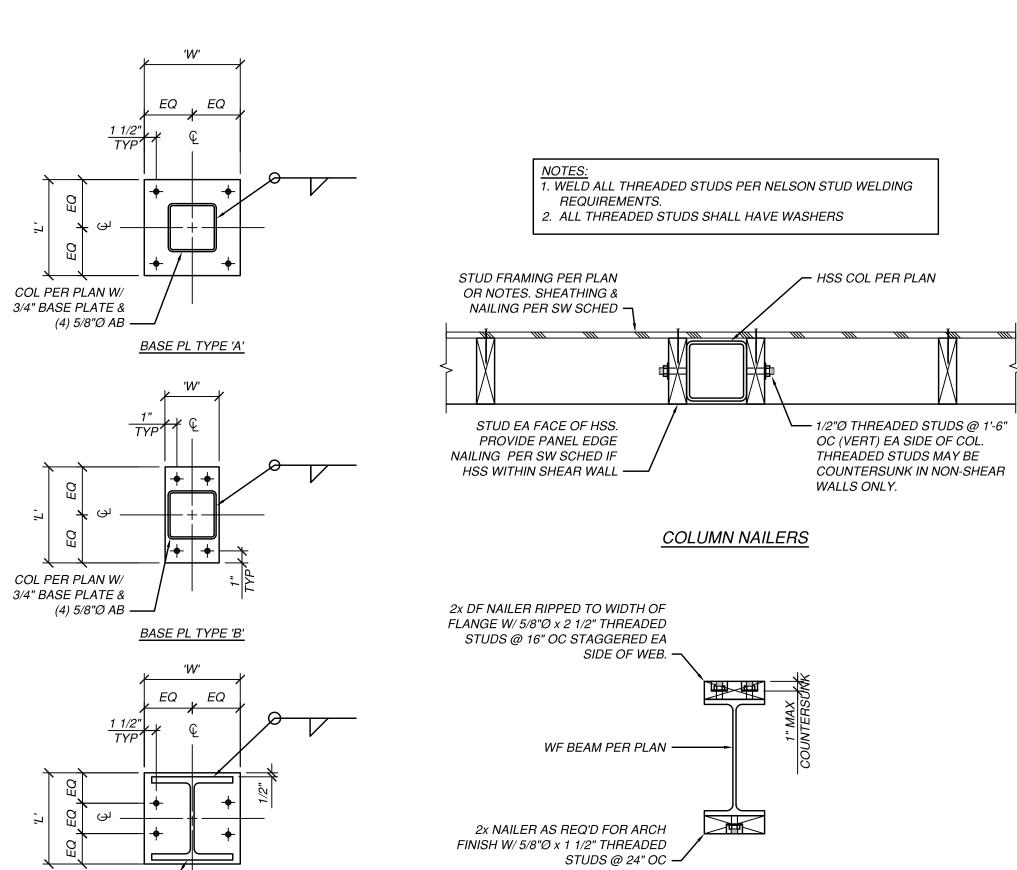












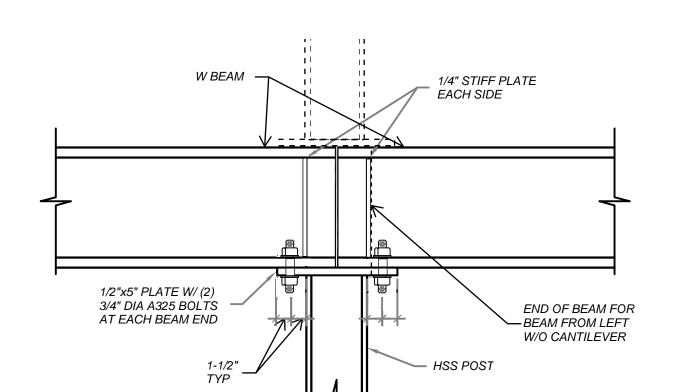
BASE PL TYPE 'C' TYPICAL BASE PLATE DETAILS

SCALE:NTS

COL PER PLAN W/

3/4" BASE PLATE,&

(4) 3/4"Ø AB ——

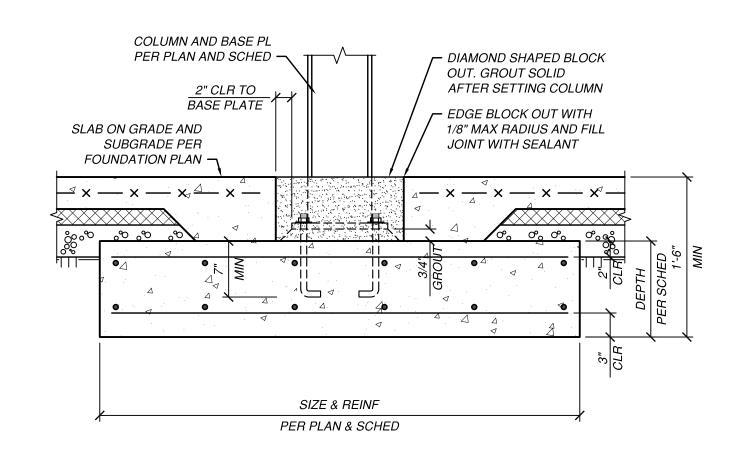


**BEAM NAILER** 

TYPICAL WOOD NAILERS TO STEEL FRAMING

NOTE: CONN FOR POST ABOVE STL BM SIMILAR TO POST TO BM CONN BOLEW

W BEAM TO HSS POST CONNECTION



ISOLATED FOOTING DETAIL

SCALE: 1" = 1'-0"

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(206) 734-5858

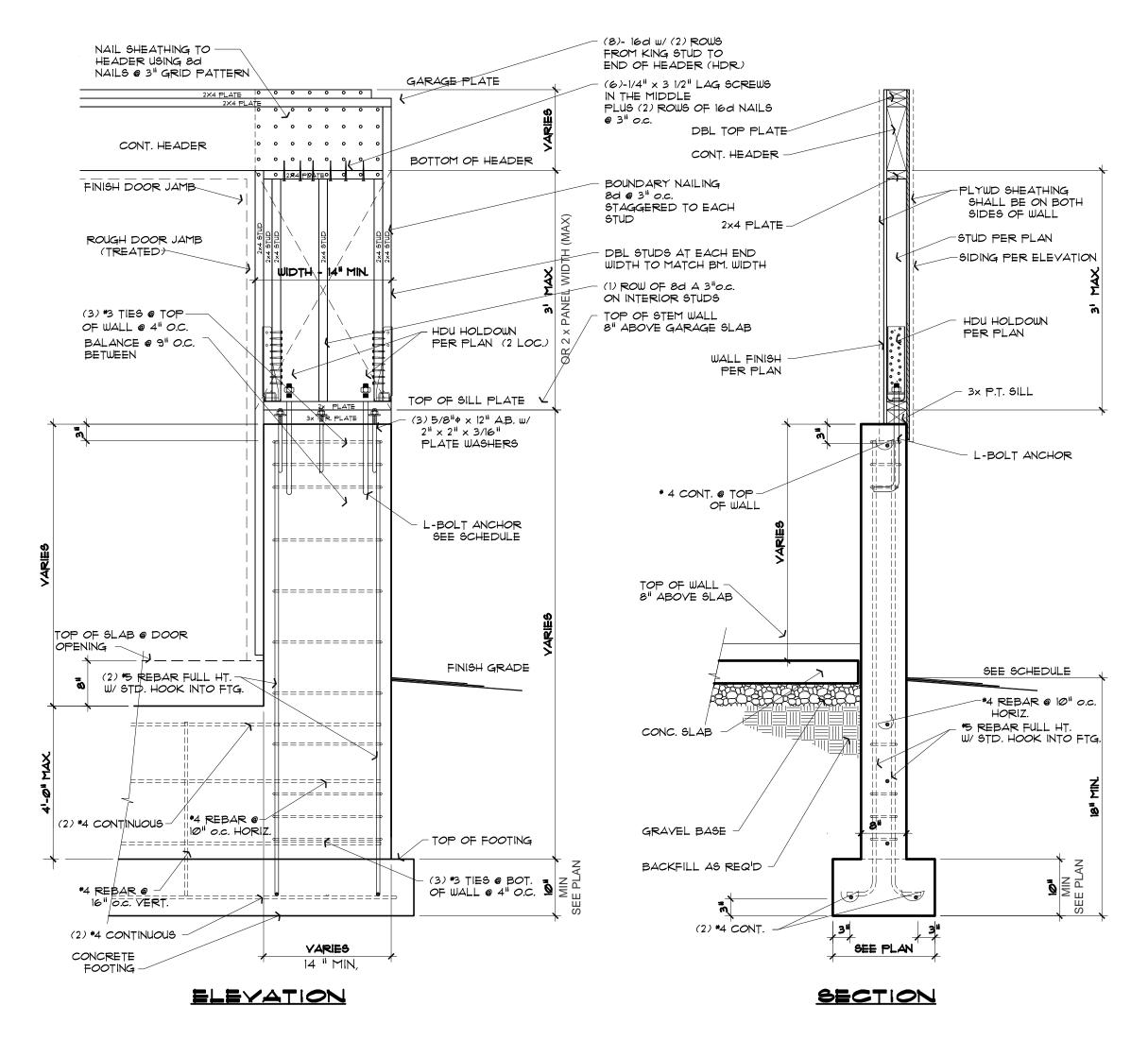


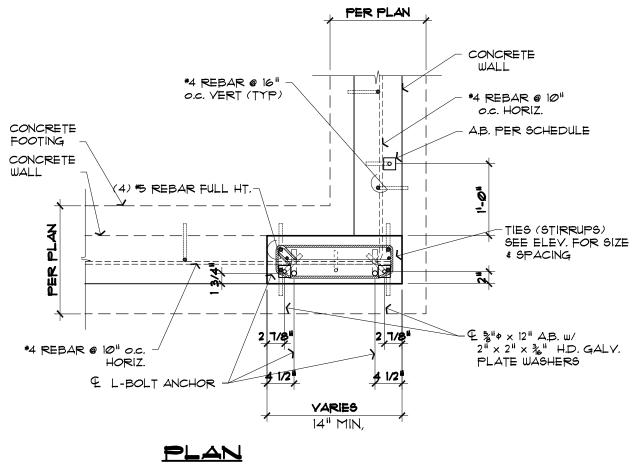
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NUMBER 00	07.29.21	PERMIT SET
01	01.18.22	PERMIT REVIEW-
		-

JOB NUMBER







**ENGINEERS** 

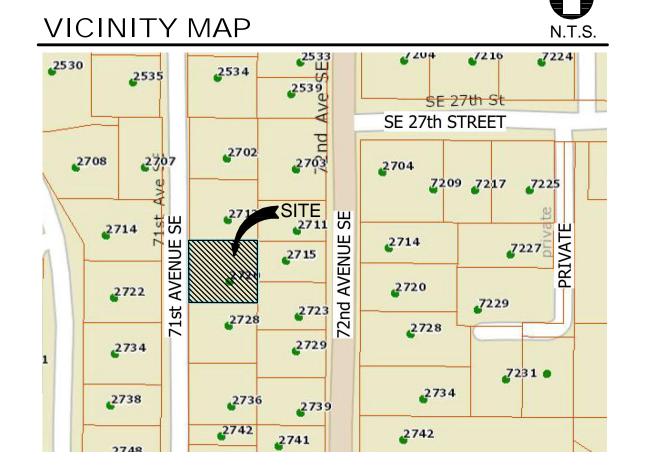
1201 3RD AVE, 2200 SEATTLE, WA 98101 (206) 734-5858



### SE 98040 SIDENC AN N ST ISL 20 2720 MERCI 2

NUMBER DATE DESCRIPTION OF REVISIONS
00 07.29.21 PERMIT SET 01 01.18.22 PERMIT REVIEW-1

SHEET TITLE GARAGE PANEL DETAIL



mmmmmm

### ORGANIC SOIL REQUIREMENT

MINIMUM 10%
ORGANIC MULCH &
COMPOST SOIL
REQUIRED

### SOIL AMENDMENT REQUIRED

COMPOST AMENDED SOIL REQUIRED ON ALL LANDSCAPED AREAS AFTER CONSTRUCTION. SEE DETAIL ON C3.5.

### SOIL INSPECTION REQUIRED BY ENGINEER

A POST CONSTRUCTION INSPECTION & CERTIFICATION OF AMENDED SOILS IS REQUIRED BY A LICENSED CIVIL ENGINEER. THIS IS REQUIRED BEFORE FINAL SIGN-OFF BY CITY.

### TREE PROTECTION

TP) ......CHAIN LINK FENCE REQ FOR TREE PROTECTION

### TREE PROTECTION NOTES

(REF: SEATTLE TREE CONSULTING, DOUGLAS SMITH, CERTIFIED ARBORIST)

-FOR THE TREES BEING RETAINED, TREE PROTECTION FENCING SHOULD BE INSTALLED AT THE OUTER EDGE OF THE DRIP LINE OR AS CLOSE TO IT AS IS PRACTICALLY POSSIBLE.

-FENCING SHOULD BE INSTALLED PRIOR TO CONSTRUCTION ACTIVITIES AND REMAIN IN PLACE FOR THE DURATION OF THE PROJECT. FENCING SHOULD ONLY BE MOVED TEMPORARILY IF MINOR DISTURBANCES MUST OCCUR WITHIN THE DRIP LINE AND THE FENCING SHOULD BE REPLACED IMMEDIATELY ONCE THAT PORTION OF THE WORK IS COMPLETED.

-THE TREE PROTECTION AREA IS DESIGNATED TO BE AN AREA OF NO IMPACT, NO STORING OF MATERIALS, NO ENCROACHMENT AND NO STAGING OF DEBRIS.

-THE TREE PROTECTION FENCING SHOULD HAVE SIGNS EVERY 8' FACING ACCESS THAT INDICATE THE AREA IS A TREE PROTECTION ZONE.

-TRENCHING THROUGH THE CRZ FOR UTILITIES IS NOT PERMITTED (TUNNELING IS THE PREFERRED METHOD).

-GRADE CHANGES IN THE CRZ ARE NOT PERMITTED.

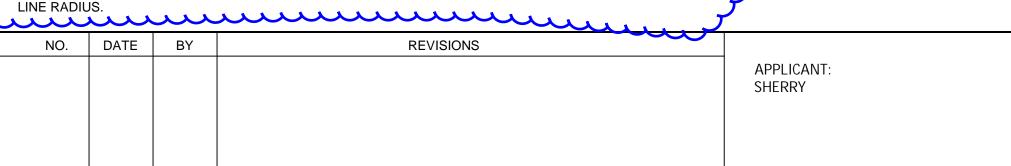
-VEHICLE MAINTENANCE AND WASHING OF EQUIPMENT (ESPECIALLY CONCRETE), IS NOT PERMITTED.

-NO ATTACHING ANYTHING TO THE TREE WITH CINCHING KNOTS OR HARDWARE.

-ROOT FLARE SHOULD BE PROTECTED WITH CHIPS SO THAT LAWN MAINTENANCE EQUIPMENT DOES NOT HAVE TO WORK CLOSE TO THE SYSTEM.

-PROPER CLEARANCES SHOULD BE MONITORED.

-THE CRZ OR CRITICAL ROOT ZONE NEEDS TO BE PROTECTED. THE INNER CRZ IS 50 % OF THE RADIUS OF THE CRZ AND THERE SHOULD BE ZERO DISTURBANCE IN THIS ZONE. A DISTURBANCE OF UP TO 33 % OF THE OUTER CRZ IS PERMISSIBLE PROVIDED THAT ANY HEAVY DIGGING EQUIPMENT WORKS TOWARD THE TREE, AND THAT ANY ROOTS ENCOUNTERED THAT ARE OVER 1" IN DIAMETER ARE EXCAVATED AROUND WITH HAND TOOLS AND CUT CLEAN WITH A SHARP SAW BEHIND THE EXCAVATION ZONE SO THAT THE ROOT CAN BIFURCATE AND CONTINUE TO GROW. IN SOME CASES, IF EXCESSIVE PRUNING HAS BEEN DONE, THE CRZ CAN BE LARGER THAN THE DRIP LINE RADIUS.





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

### **BTREE DRIPLINE NOTE**

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

EROSION CONTROL LEGEND

SHEET C1.2

EROSION CONTROL NOTES
SHEET C1.2

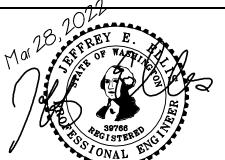




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DATE: Mar 28, 2022



CIVIL ENGINEERING SOLUTIONS

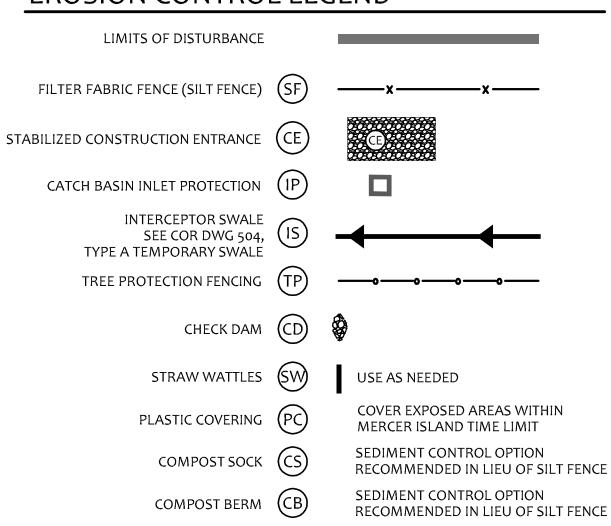
2244 NW MARKET STREET, SUITE B SEATTLE, WA 98107 PHONE: 206.930.0342 DUFFY@CESOLUTIONS.US EROSION CONTROL PLAN
TREE PROTECTION PLAN

C1

2720 RESIDENCE 2720 71st AVENUSE SE, MERCER ISLAND, WA 98040 APN 217450-1915

DRAWING NO:

### **EROSION CONTROL LEGEND**



### RECOMMENDED CONSTRUCTION SEQUENCE

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

1. HOLD AN ONSITE PRE-CONSTRUCTION MEETING.

2. POST SIGN WITH NAME AND PHONE NUMBER OF ESC SUPERVISOR (MAY BE CONSOLIDATED WITH THE REQUIRED NOTICE OF CONSTRUCTION SIGN).

3. FLAG OR FENCE CLEARING LIMITS.

4. INSTALL CATCH BASIN PROTECTION, IF REQUIRED.

5. GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).

6. INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).

7. CONSTRUCT SEDIMENT PONDS AND TRAPS.

8. GRADE AND STABILIZE CONSTRUCTION ROADS.

9. CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.

10. MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY OF MERCER ISLAND STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.

11. RELOCATE SURFACE SURFACE WATER CONTROLS OR TESC MEASURES, OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE TESC IS ALWAYS IN ACCORDANCE WITH CITY OF MERCER ISLAND TESC REQUIREMENTS.

12. COVER ALL AREAS THAT WILL BE UN-WORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON (MAY 1 TO SEPT 30) OR TWO DAYS DURING THE WET SEASON (OCT 1 TO APRIL 30) WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING, OR EQUIVALENT.

13. STABILIZE ALL AREAS WITHIN SEVEN DAYS OF REACHING FINAL GRADE.

14. SEED, SOD, STABILIZE, OR COVER ANY AREAS TO REMAIN UNWORKED FOR MORE THAN

15. UPON COMPLETION OF THE PROJECT, STABILIZE ALL DISTURBED AREAS AND REMOVE BMPS IF APPROPRIATE.

### DENUDED AREAS REQUIREMENTS

APRIL 1 TO SEPT 30

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

OCT 1 TO MARCH 31

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

### **EROSION CONTROL NOTES**

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

1. APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES,

2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND

UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.

3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY SURVEY TAPE OR FENCING, IF REQUIRED, PRIOR TO CONSTRUCTION (SWDM APPENDIX D). DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.

4. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS CONSTRUCTED WHEEL WASH SYSTEMS OR WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN AND TRACK OUT TO ROAD RIGHT OF WAY DOES NOT OCCUR FOR THE DURATION OF THE PROJECT.

5. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.

6. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G. ADDITIONAL COVER MEASURES, ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, PERIMETER PROTECTION ETC.) AS DIRECTED BY CITY OF MERCER ISLAND.

7. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES.

8. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO CONSECUTIVE DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).

9. ANY AREA NEEDING ESC MEASURES THAT DO NOT REQUIRE IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS.

10. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH DURING THE DRY SEASON, BI-MONTHLY DURING THE WET SEASON, OR WITHIN TWENTY FOUR (24) HOURS FOLLOWING A STORM EVENT.

11. AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.

12. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE ROUGH GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY.

13. COVER MEASURES WILL BE APPLIED IN CONFORMANCE WITH APPENDIX D OF THE SURFACE WATER DESIGN MANUAL

14. PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON.

### **CITY NOTES**

- 1. ANY CHANGES TO THE APPROVED PLANS REQUIRES CITY APPROVAL THROUGH A REVISION.
- 2. APPLICANT IS RESPONSIBLE FOR ANY DAMAGES TO UNDERGROUND UTILITIES CAUSED FROM THIS CONSTRUCTION.
- CATCH BASIN FILTERS SHOULD BE PROVIDED FOR ALL STORM DRAIN CATCH BASINS/INLETS DOWNSLOPE AND WITHIN 500 FEET OF THE CONSTRUCTION AREA. CATCH BASIN FILTERS SHOULD BE DESIGNED BY THE MANUFACTURER FOR USE AT CONSTRUCTION SITES AND APPROVED BY THE CITY INSPECTOR. CATCH BASIN FILTERS SHOULD BE INSPECTED FREQUENTLY, ESPECIALLY AFTER STORM EVENTS. IF THE FILTER BECOMES CLOGGED, IT SHOULD BE CLEANED OR REPLACED.
- CONTRACTORS SHALL VERIFY LOCATIONS AND DEPTHS OF UTILITES.
- AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, CALL "ONE CALL" AT 1.800.424.5555
- DO NOT BACKFILL WITH NATIVE MATERIAL ON PUBLIC RIGHT-OF-WAY. ALL MATERIAL MUST BE IMPORTED
- EROSION CONTROL: ALL "LAND DISTURBING ACTIVITY" IS SUBJECT TO PROVISIONS OF MERCER ISLAND ORDINANCE 95C-118 "STORM WATER MANAGEMENT." SPECIFIC ITEMS TO BE FOLLOWED AT YOUR SITE:
- 8. PROTECT ADJACENT PROPERTIES FROM ANY INCREASED RUNOFF OR SEDIMENTATION DUE TO THE CONSTRUCTION PROJECT THROUGH THE USE OF APPROPRIATE "BEST MANAGEMENT PRACTICES" (BMP) EXAMPLES INCLUDE, BUT ARE NOT LIMITED TO, SEDIMENT TRAPS, SEDIMENT PONDS, FILTER FABRIC FENCES, VEGETATIVE BUFFER STRIPS OR BIOENGINEERED SWALES.
- CONSTRUCTION ACCESS TO THE SITE SHOULD BE LIMITED TO ONE ROUTE. STABILIZE ENTRANCE WITH QUARRY SPALLS TO PREVENT SEDIMENT FROM LEAVING THE SITE OR ENTERING THE STORM DRAINS.
- 10. PREVENT SEDIMENT, CONSTRUCTION DEBRIS, PAINTS, SOLVENTS, ETC., OR OTHER TYPES OF POLLUTION FROM ENTERING PUBLIC STORM DRAINS. KEEP ALL POLLUTION ON YOUR SITE.
- 11. ALL EXPOSED SOILS SHALL REMAIN DENUDED FOR NO LONGER THAN SEVEN (7) DAYS AND SHALL BE STABILIZED WITH MULCH, HAY, OR THE APPROPRIATE GROUND COVER. ALL EXPOSED SOILS SHALL BE COVERED IMMEDIATELY DURING ANY RAIN EVENT.
- INSTALLATION OF CONCRETE DRIVEWAYS, TREES, SHRUBS, IRRIGATION, BOULDERS, BERMS, WALLS, GATES, AND OTHER IMPROVEMENTS ARE NOT ALLOWED IN THE PUBLIC RIGHT-OF-WAY WITHOUT PRIOR APPROVAL, AND AN ENCROACHMENT AGREEMENT AND RIGHT OF WAY PERMIT FROM THE SENIOR DEVELOPMENT ENGINEER.
- OWNER SHALL CONTROL DISCHARGE OF SURFACE DRAINAGE RUNOFF FROM EXISTING AND NEW IMPERVIOUS AREAS IN A RESPONSIBLE MANNER. CONSTRUCTION OF NEW GUTTERS AND DOWNSPOUTS, DRY WELLS, LEVEL SPREADERS OR DOWNSTREAM CONVEYANCE PIPE MAY BE NECESSARY TO MINIMIZE DRAINAGE IMPACT TO YOUR NEIGHBORS. CONSTRUCTION OF MINIMUM DRAINAGE IMPROVEMENTS SHOWN OR CALLED OUT ON THIS PLAN DOES NOT IMPLY RELIEF FROM CIVIL LIABILITY FOR YOUR DOWNSTREAM DRAINAGE.
- 14. POT HOLING THE PUBLIC UTILITIES IS REQUIRED PRIOR TO ANY GRADING ACTIVITIES LESS THAN 6" OVER THE PUBLIC MAINS (WATER, SEWER AND STORM SYSTEMS). IF THERE IS A CONFLICT, THE APPLICANT IS REQUIRED TO SUBMIT A REVISION FOR APPROVAL PRIOR TO ANY GRADING ACTIVITIES OVER THE PUBLIC
- 15. REMEMBER: EROSION CONTROL IS YOUR FIRST INSPECTION.
- 16. ROOF DRAINS MUST BE CONNECTED TO THE STORM DRAIN SYSTEM AND INSPECTED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO ANY BACKFILLING OF PIPE.
- 17. SILENT FENCE: CLEAN AND PROVIDE REGULAR MAINTENANCE OF THE SILT FENCE. THE FENCE IS TO REMAIN VERTICAL AND IS TO FUNCTION PROPERLY THROUGHOUT THE TERM OF THE PROJECT.
- 18. WORK IN PUBLIC RIGHT OF WAY REQUIRES A RIGHT-OF-WAY USE PERMIT.
- REFER TO WATER SERVICE PERMIT FOR ACTUAL LOCATION OF NEW WATER METER AND SERVICE LINE DETERMINED BY MERCER ISLAND WATER DEPARTMENT.
- 16. THE TV INSPECTION OF THE EXISTING SIDE SEWER TO THE CITY SEWER MAIN IS REQUIRED. IF THE RESULT OF THE TV INSPECTION IS NOT IN SATISFACTORY CONDITION, AS DETERMINED BY THE CITY OF MERCER ISLAND INSPECTOR, THE REPLACEMENT OF THE EXISTING SIDE SEWER IS REQUIRED. ALTERNATELY, A PRESSURE TEST OF THE SIDE SEWER, FROM SEWER MAIN TO POINT OF CONNECTION, MAY BE SUBSTITUTED FOR THE VIDEO INSPECTION.
- 20. NEWLY INSTALLED SIDE SEWER REQUIRES A 4 P.S.I. AIR TEST OR PROVIDE 10' OF HYDROSTATIC HEAD TEST.
- 21. POT HOLING THE PUBLIC UTILITIES IS REQUIRED PRIOR TO ANY GRADING ACTIVITIES LESS THAN 6" OVER THE PUBLIC MAINS (WATER, SEWER AND STORM SYSTEMS). IF THERE IS A CONFLICT, THE APPLICANT IS REQUIRED TO SUBMIT A REVISION FOR APPROVAL PRIOR TO ANY GRADING ACTIVITIES OVER THE PUBLIC
- 22. THE LIMITS AND EXTENDS OF THE PAVEMENT IN THE PUBLIC RIGHT OF WAY SHALL BE DETERMINED BY THE CITY ENGINEER PRIOR TO FINALIZE THE PROJECT.

NO. DATE REVISIONS BY

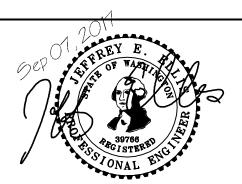


APPLICANT:

SHERRY









PHONE: 206.930.0342

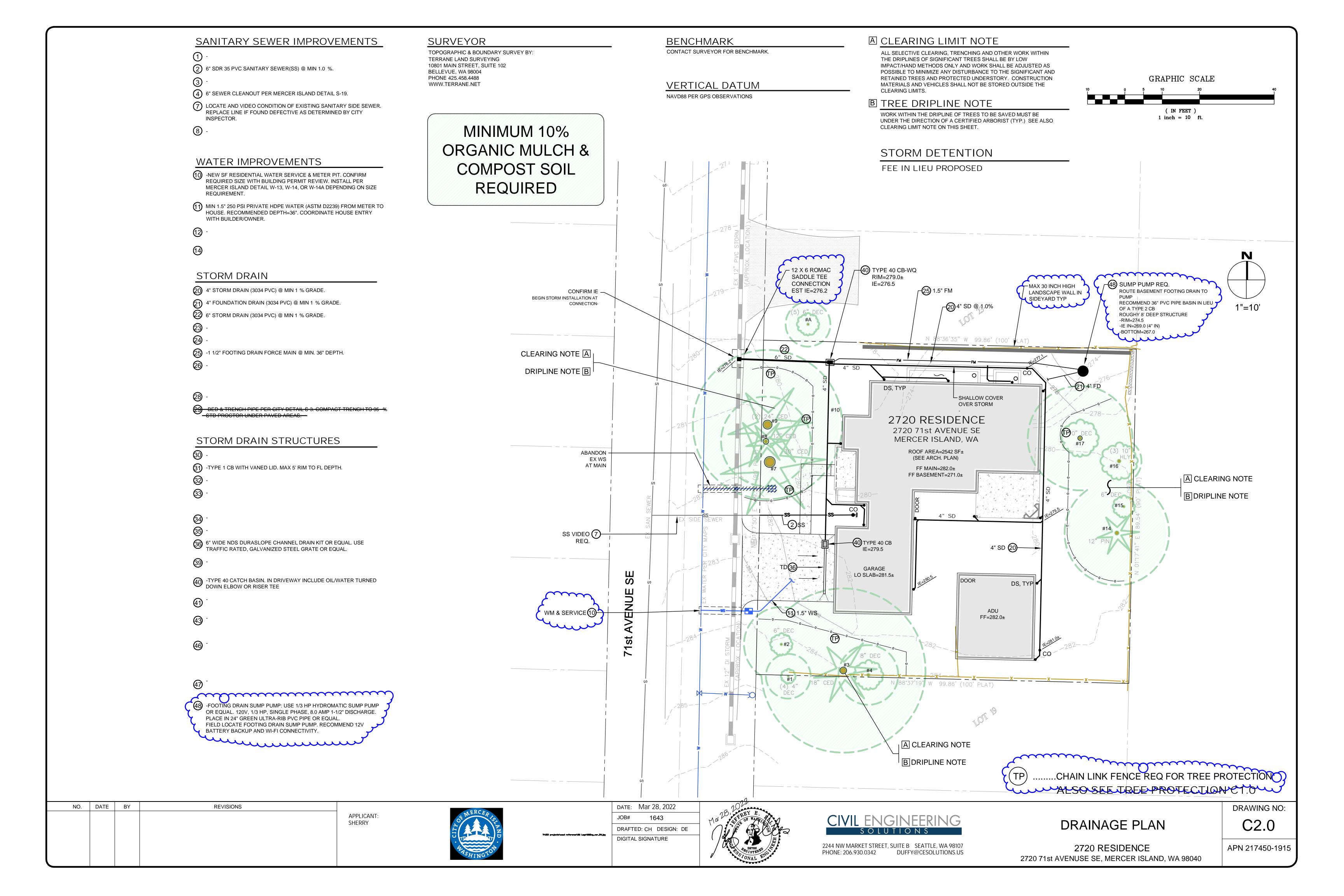
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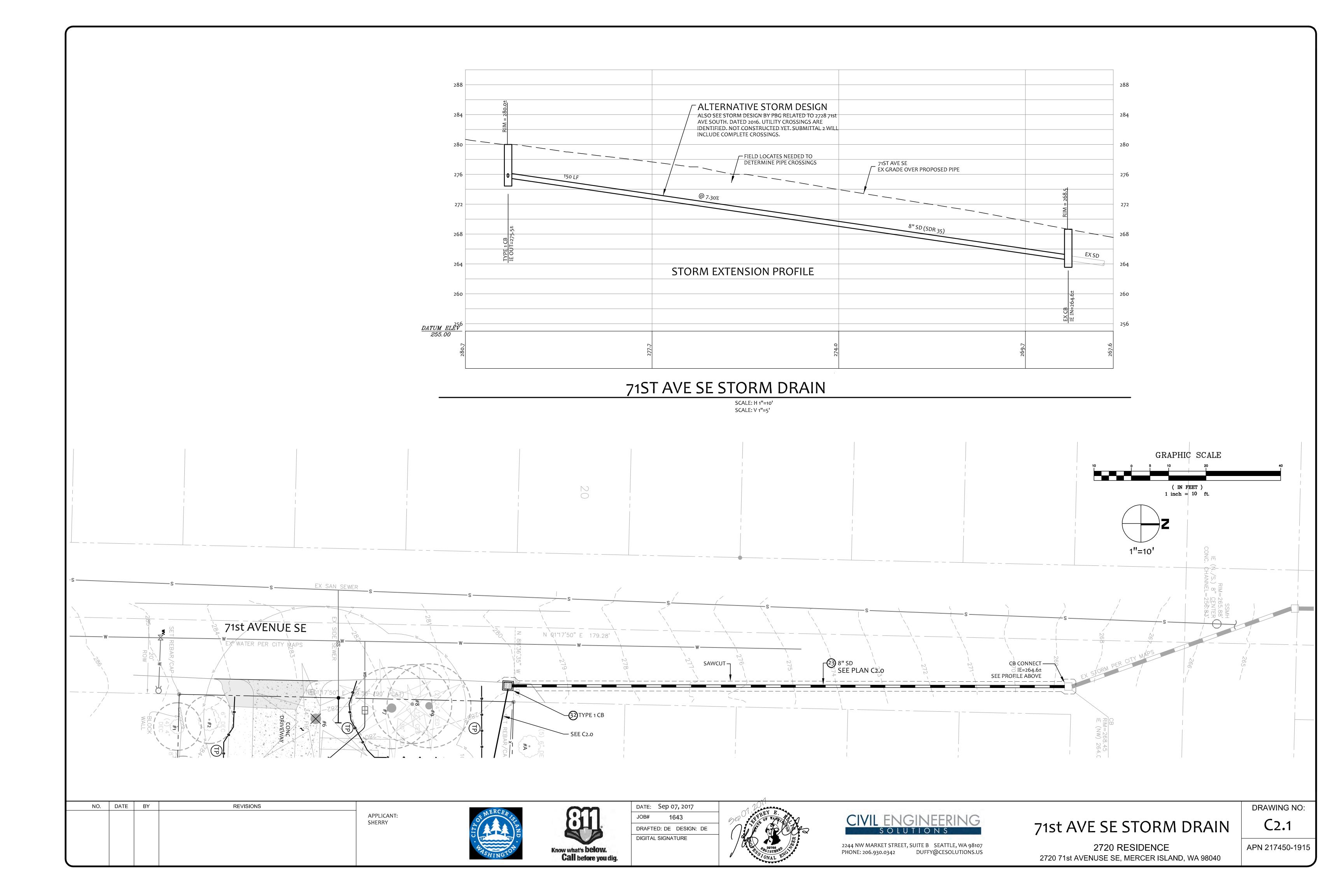
2720 71st AVENUSE SE. MERCER ISLAND. WA 98040

DRAWING NO:

2720 RESIDENCE APN 217450-1915

2244 NW MARKET STREET, SUITE B SEATTLE, WA 98107 DUFFY@CESOLUTIONS.US





### LEGAL DESCRIPTION

(PER QUIT CLAIM DEED RECORDED #20150127001215)

LOTS 20, 21 AND 22 IN BLOCK 9 OF EAST SEATTLE ADDITION, AS PER PLAT RECORDED IN VOLUME 3 OF PLATS, PAGE 22 AND 23, IN KING COUNTY, WASHINGTON.

### BASIS OF BEARINGS

HELD BEARING N 89°29'46" W ALONG S.E. 24TH ST. AS SHOWN HEREON, AND PER REFERENCE 1

### REFERENCES

- . R.O.S. PER K.C.R.N. 20061213900004
- 2. R.O.S. PER K.C.R.N. 9001189001 (ALIGNMENT OF S.E. 27TH ST)
- HEDLUND S.P. PER K.C.R.N. 7709099012 4. R.O.S. PER K.C.R.N. 20070629900010
- 5. PLAT OF EAST SEATTLE PER VOL. 3, PG 22&23 KING COUNTY WA

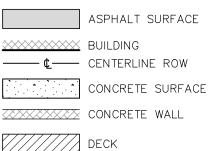
### **VERTICAL DATUM**

NAVD88 PER GPS OBSERVATIONS

### SURVEYOR'S NOTES

- I. THE TOPOGRAPHIC SURVEY SHOWN HEREON WAS PERFORMED IN MAY OF 2017. 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. BURIED UTILITIES SHOWN BASED ON RECORDS FURNISHED BY OTHERS AND VERIFIED WHERE POSSIBLE IN THE FIELD. TERRANE ASSUMES NO LIABILITY FOR THE ACCURACY OF THOSE RECORDS OR ACCEPT RESPONSIBILITY FOR UNDERGROUND LINES WHICH ARE NOT MADE PUBLIC RECORD. FOR THE FINAL LOCATION OF EXISTING UTILITIES IN AREAS CRITICAL TO DESIGN CONTACT THE UTILITY OWNER/AGENCY. AS ALWAYS, CALL 1-800-424-5555 BEFORE CONSTRUCTION.
- 4. SUBJECT PROPERTY TAX PARCEL NO. 217450-1915
- 5. SUBJECT PROPERTY AREA PER THIS SURVEY IS  $8,943 \pm S.F.$  $(0.21 \pm ACRES) - 9,000 S.F. PER KING COUNTY ASSESSOR'S$
- 6. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT. EASEMENTS AND OTHER ENCUMBRANCES MAY EXIST THAT ARE NOT SHOWN HEREON.
- 7. 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



------ FENCE LINE (WOOD) FIRE HYDRANT G ☐ GAS METER

MAILBOX (RESIDENTIAL) ( MONUMENT IN CASE (FOUND) P POWER METER ——— POWER (OVERHEAD) REBAR & CAP (SET)

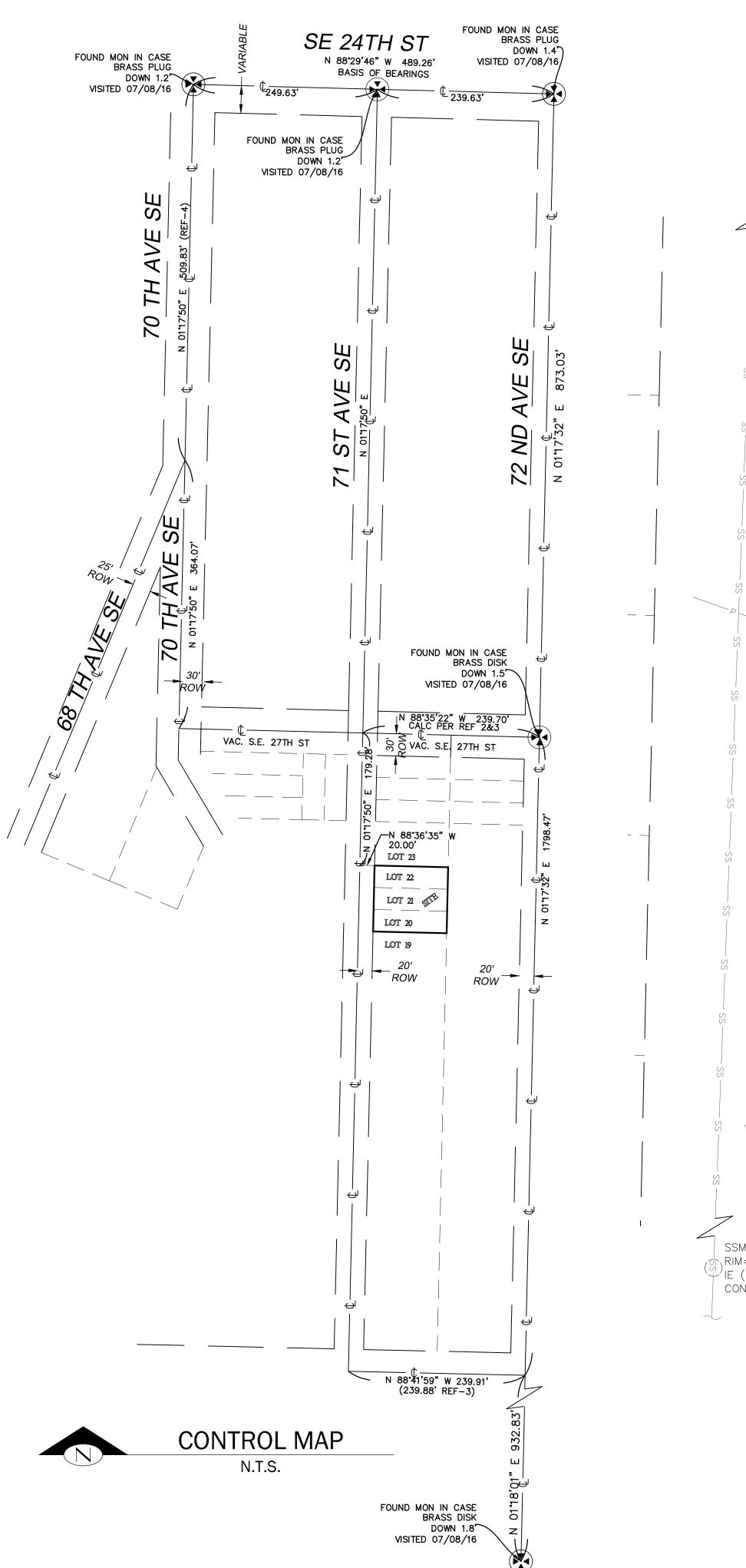
ROCKERY ----- SS ---- SEWER LINE ( ) SEWER MAINTENANCE SIZE TYPE  $(\circ)$  TREE (AS NOTED)

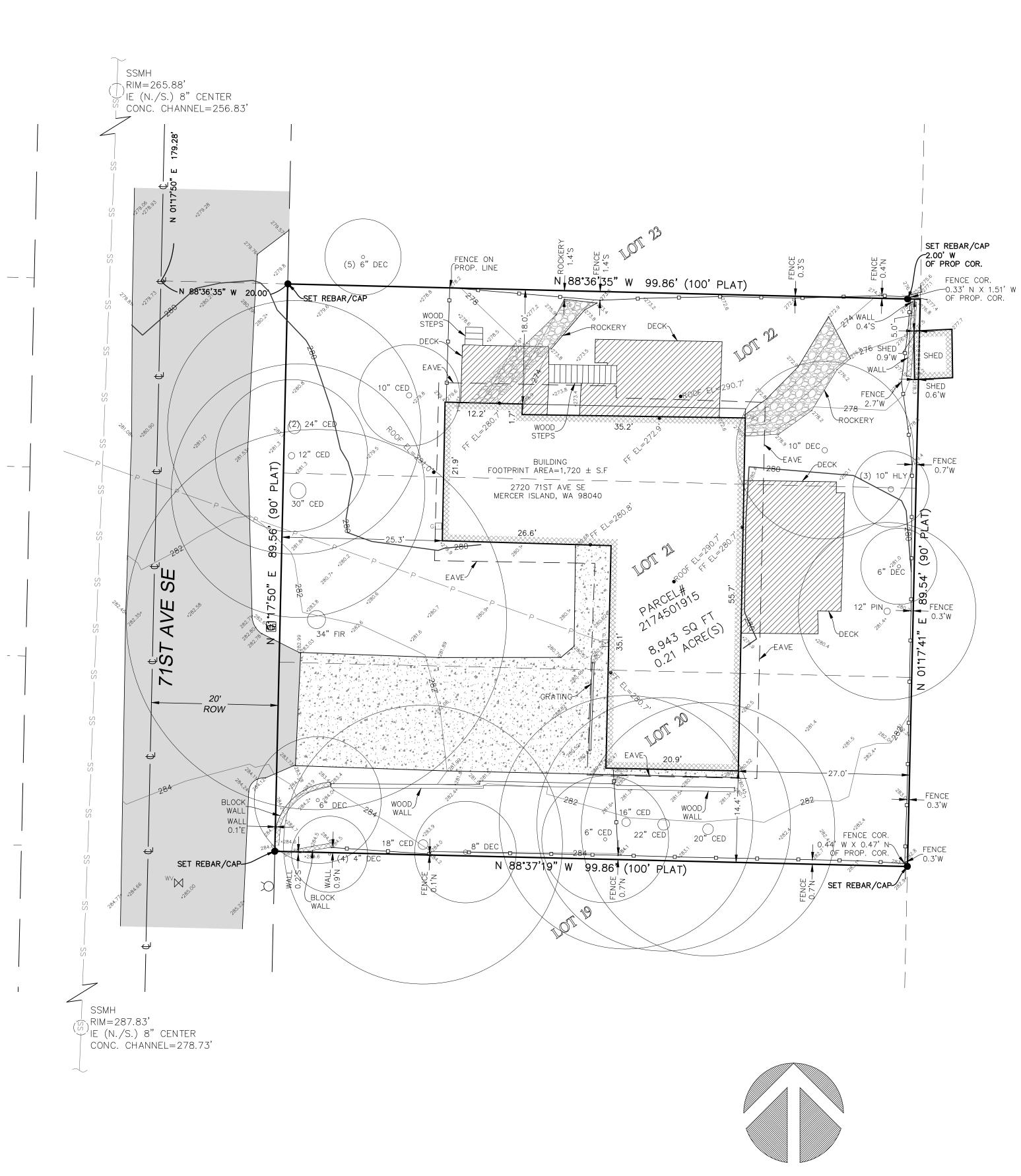
WV ⋈ WATER VALVE

### VICINITY MAP



### TOPOGRAPHIC & BOUNDARY SURVEY

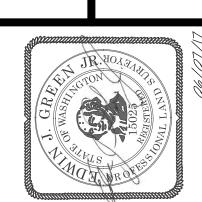






RESIDENCE

SENG







NUMBER:		170719		
E:		06/01/17		
AFTED BY:		IDV-SMS		
CKED BY:		EJG		
LE:		1"= 10'		
REVISION HISTORY				

SHEET NUMBER

1 OF 1

( IN FEET ) 1 INCH = 10 FT.