

PREPARED FOR:

8456 SE 40TH RESIDENCE

PROJECT DATA:

PARCEL NO .: PROPERTY TYPE: LAND AREA: ACRES: Q,S,T,R: ADDRESS:

ZONE: SETBACKS:

MAX HEIGHT:

WATER: SEWER/SEPTIC: ROAD ACCESS: STREET SURFACE: 502190-0790 R, RESIDENTIAL 11. 930 S.F. 0.27 SM-7 -24-5 8456 SE 40TH MERCER ISLAND, WA 98040

R-8.4 FRONT: 20 FEET REAR: 25 FEET SIDE: 5 FT. MIN. 30 FEET

WATER DISTRICT PUBLIC PUBLIC PAVED



DESIGN TEAM:

STRUCTURAL ENGINEER:

OWNER:

URBAN DESIGN GROUP 15445 53rd AVE. S. STE. 110 TUKWILA, WA 98188 (206) 838-8250 urbandesigncenter@yahoo.com CONTACT: PAVEL MELNIK

NN ENGINEERING P.O. BOW 39681 LAKEWOOD, WA 98499 (253) 250-6651 NNENGINEERING@COMCAST.NET CONTACT: NORM P. NAVARRO

PHILIP SUDO Q LLC mackuntu@gmail.com laurieyang92@gmail.com CONTACT: KUN QIAN & LAURIE QIAN



SHEET	#
AO	
1 <i>O</i> F 1	
SITE	
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3D RENDERING NOTES:

PROJECT DESCRIPTION:



	COVER
	BOUNDARY/TOPOGRAPHIC SURVEY
	ARCHITECTURAL SITE PLAN
	TREE PROTECTION PLAN
	CIVIL ENGINEERING
	DRAINAGE SITE PLAN
	DRAINAGE DETAIL
	TESC/DEMO/CSWPPPTION DETAIL
	ARCHITECTURAL PLAN
	GENERAL NOTES AND PLAN PREVIEW
	ENERGY CREDITS OPTIONS
	GROSS FLOOR AREA (GFA)
	PARKING
	MAIN FLOOR PLAN
	UPPER FLOOR PLAN
	FRONT AND REAR ELEVATIONS
	LEFT AND RIGHT ELEVATIONS
	PERSPECTIVE VIEWS
_	BUILDING CROSS-SECTION AND DETAILS
	ROOF LAYOUT
	SCHEDULES AND NOTES
	DETAILS
	PROJECT DETAILS
	HARDIE PANEL SIDING DETAILS
	ARTISAN LAP SIDING DETAILS
	STRUCTURAL PLAN
	GENERAL NOTES
	GENERAL NOTES
	FOUNDATION DETAILS
	FRAMING DETAILS
	FOUNDATION/ FLOOR FRAMING
	UPPER FLOOR FRAMING
	ROOF FRAMING

3D ELEVATIONS ARE FOR REFERENCE ONLY. THESE SHOULD NOT BE USED TO DETERMINE ANY PORTION OF THE CONSTRUCTION OTHER THAN GENERAL MATERIAL AND APPEARANCE. REFER TO ELEVATION SHEETS FOR DETAILS.

SINGLE FAMILY RESIDENCE (4 016 S.F.) AND ATTACHED 2-CAR GARAGE (500 S.F.).

BUILDING DEPARTMENT NOTES:

THE INSTALLATION OF A NFPA 13D FIRE SPRINKLER SYSTEM. THIS WILL REQUIRE A SEPARATE PERMIT, BUT MAY BE DEFERRED BY CITY AFTER FULL REVIEW.

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SUBMITTAL/REVISION: DATE: SUBMITTED REVISED

DESIGN BY: DRAFTED BY: -/-/2022 -/-/2022

PAVEL MELNIK

SHEET TITLE:

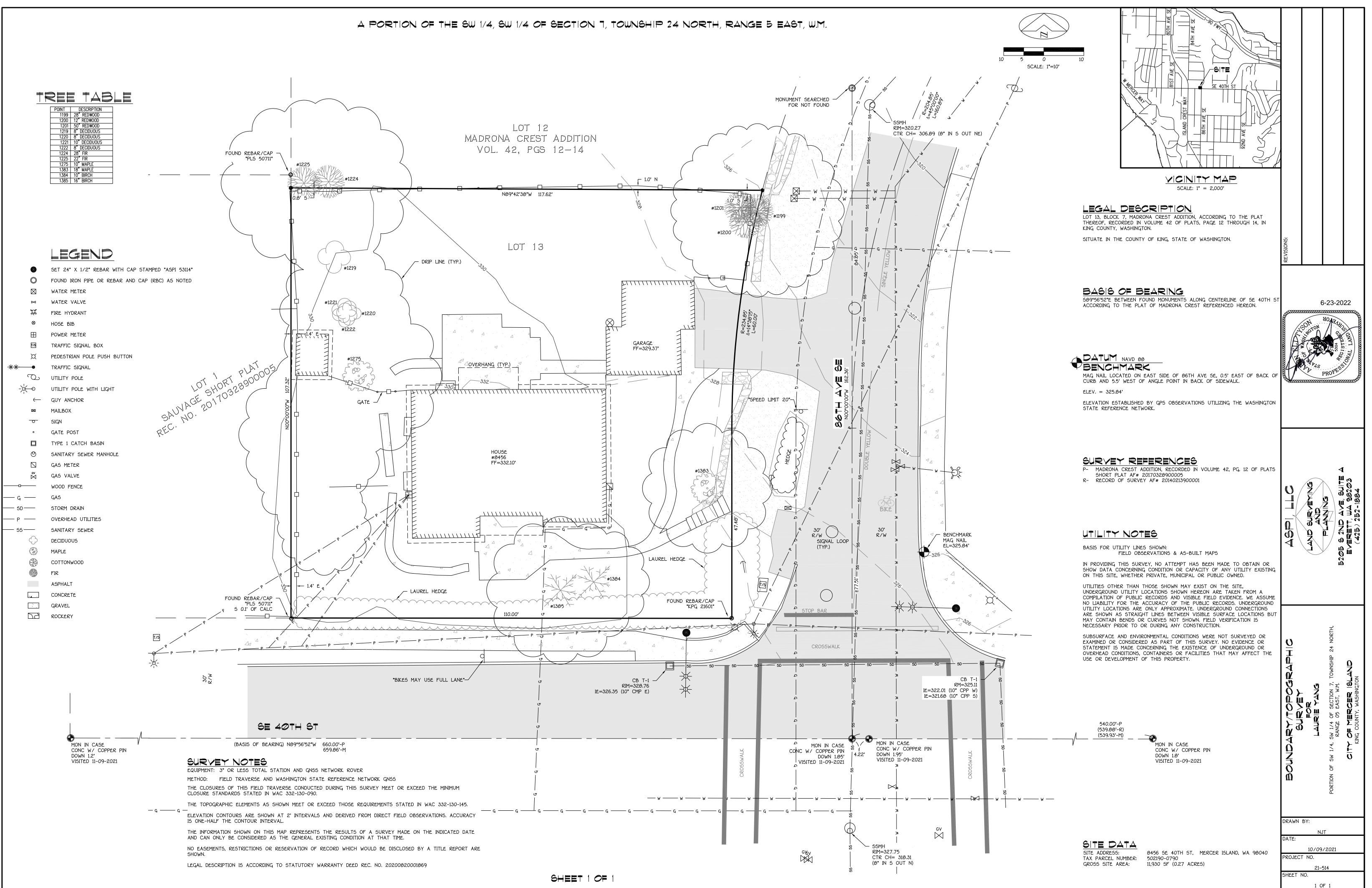
ANNA KONYAKINA

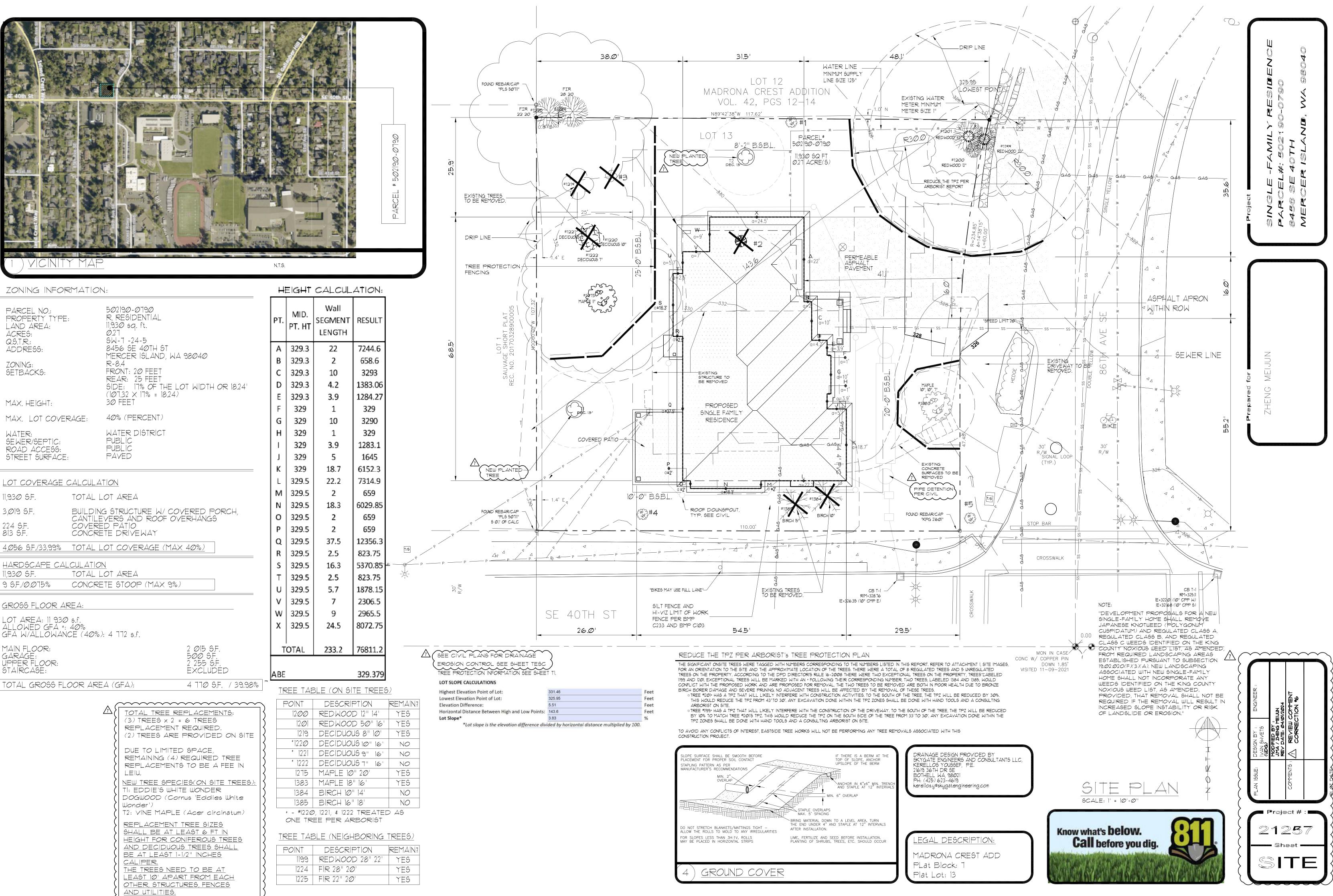


PROJECT NUMBER:









	ZONING INFORMA				EIGHI	CALCUL	AHON:
	PARCEL NO.: PROPERTY TYPE: LAND AREA: ACRES:	502190-0790 R, RESIDENTIAL 11,930 sq. ft. 0.27 SW-7 -24-5		PT.	MID. PT. HT	Wall SEGMENT LENGTH	RESULT
	Q.S.T.R.: ADDRESS:	8456 SE 40TH ST	11 00010	Α	329.3	22	7244.6
	ZONING:	MERCER ISLAND, 6 R-8.4	NA 98040	B	329.3	2	658.6
	SETBACKS:	FRONT: 20 FEET REAR: 25 FEET		C	329.3	10	3293
		SIDE: 17% OF THE	LOT WIDTH OR 18.24'	D	329.3	4.2	1383.06
	MAX, HEIGHT:	(107.32 × 17% = 18.24 30 FEET	4)	E	329.3	3.9	1284.27
				F	329	1	329
	MAX. LOT COVERAGE	: 40% (PERCENT)		G	329	10	3290
	WATER:	WATER DISTRICT		н	329	1	329
	SEWER/SEPTIC: ROAD ACCESS:	PUBLIC PUBLIC		1	329	3.9	1283.1
	STREET SURFACE:	PAVED		1	329	5	1645
				ĸ	329	18.7	6152.3
	LOT COVERAGE CALC	CULATION		L	329.5	22.2	7314.9
	11,930 S.F. TOT	AL LOT AREA		М	329.5	2	659
	,	LDING STRUCTURE W/ C		N	329.5	18.3	6029.85
	CAN	NTILEVERS AND ROOF (DVERHANGS	0	329.5	2	659
		VERED PATIO NCRETE DRIVEWAY		P	329.5	2	659
		AL LOT COVERAGE (M,	$\wedge \times \wedge (2) $	Q	329.5	37.5	12356.3
				R	329.5	2.5	823.75
	HARDSCAPE CALCUL			S	329.5	16.3	5370.85
	1	T <u>AL LOT AREA</u> NCRETE STOOP (MAX 91	9/)	T	329.5	2.5	823.75
				U	329.5	5.7	1878.15
	GROSS FLOOR AREA:			V	329.5	7	2306.5
	LOT AREA: 11 930 s.f.			W	329.5	9	2965.5
	ALLOWED GFA *: 40% GFA W/ALLOWANCE (X	329.5	24.5	8072.75
	MAIN FL <i>OOR:</i> GARAGE:		2 Ø15 S.F. 500 S.F.	Т	OTAL	233.2	76811.2
	UPPER FLOOR:		2 255 S.F.				
Г	STAIRCASE:		EXCLUDED	_ ABE			329.379
	TOTAL GROSS FLOOR	AREA (GFA):	4 770 S.F. / 39.98%] . †§	REE TAE	BLE (<i>O</i> N SI	te tree
		,	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		POINT	DESCRI	⊃†I <i>O</i> N
			REPLACEMENTS:	5	1200	REDWOO	D 12" 14'
		(3) TREES × 2 REPLACEMEN	TREES	}	1201	REDWOO	
		(2) TREES AR	E PROVIDED ON SITE	\$ ⊢	1219 *122Ø	DECIDUOL DECIDUOL	
		DUE TO LIMIT		}	* 1221		
			4) REQUIRED TREE	\sum	* 1222	DECIDUO	
				$\langle \square$	1275	MAPLE 10	
		(<u>NEW TREE SPE</u> T1: EDDIE'S WH	<u>ECIES(ON SITE TREES);</u> HITE WONDER	λ –	1383	MAPLE 18	
			ornus 'Eddies White	5	1384 1385	BIRCH 10' BIRCH 16'	
		(Wonder') T2: VINE MAPL	_E (Acer circinatum)	}		DIRCH 10 2, 1221, ∉ 1222	
			IT TREE SIZES LEAST 6 FT IN	{		EE PER AF	
			CONIFEROUS TREES DUS TREES SHALL	{ _		BLE (NEIGH	
		BE AT LEAST			201NT 1199	DESCRI REDWOO	
		CALIPER. THE TREES NE	EED TO BE AT	} ⊢	1224	FIR 28" 20	
			ART FROM EACH	5 -			

Tree #	Species	Latin Name	DBH	Appr Ht	Health	Dripline Radius	TPZ Radius [ft]	CRZ Radius [ft]	Exception al	Regulated	Retain
		(Sequoia sempervir									
1199*	Redwood	ens)	33"	95'	Very Good	20'	33	16.5	Yes	Yes	Yes
				-				ty. There is a	small fence	that is grow	ing
against the	trunk at the	e root flare.	This tree is p	art of a clus	ter of 3 Red	wood trees.					
		(Sequoia									
1200	Redwood	sempervir ens)	12"	35'	Good	17'	12	6	No	Yes	Yes
	10000000000000000			10.0	12.2.3.2	1.1724	dominantly		1225	- Transf	105
ine tree is	locateu at ti		corner or u	ie property.	This tiee is	growing suc	l		ei neuwoou	uees.	
		(Sequoia sempervir									
1201*	Redwood	ens)	43"	100'	Very Good	19'	43	26.5	Yes	Yes	Yes
This tree is	located at t	he northeast	t corner of t	ne property	amongst a c	luster of 3 f	Redwood tre	es.			
1220,		(Sorbus									
1221 and	Mountain	americana									
1222	ash)	15"	40'	Fair	16'	10	5	No	Yes	No
The tree is	located app	roximately 3	0' south of t	he northwe	stern corner	of the prop	perty and app	proximately	12' from the	west wall	
		(Acer									
	Japanese	palmatum									
1275	maple)	11"	30'	Good	22'	11	5.5	No	Yes	Yes
This tree is	located app		.5' west of th	he northwes	st corner of t	he house.					
		(Acer	10// 10//								
1383	Japanese maple	palmatum	10", 10", and 7"	20'	Very Good	19'	10	5	No	Yes	Yes
	<u></u>	rovimately 2			corner of th			-			
inis accis	iocated app	To Annacely 2	o cast of th	e southeast	conner or cr	ie nouse.					
		1									
	Paner	(Betula									
1384	Paper birch	(Betula papyrifera)	10"	20'	Poor	8'	10	5	No	Yes	No
	birch	papyrifera)	10"				10	5	No	Yes	No
	birch	papyrifera)	10"		Poor st corner of		10	5	No	Yes	No
This tree is	birch located app Paper	papyrifera) roximately 1	10" .5' south of t	the southea		the house.					
	birch located app	papyrifera) roximately 1 (Betula	10"				10 15	5 7.5	No No	Yes Yes	No
This tree is 1385	birch located app Paper birch	papyrifera) roximately 1 (Betula papyrifera)	10" .5' south of 1 15"	the southea	st corner of	the house.	15				
This tree is 1385	birch located app Paper birch located app	papyrifera) roximately 1 (Betula papyrifera) roximately 1 (Acer	10" .5' south of 1 15" .5' south of 1	the southea	st corner of Poor	the house.	15				
This tree is 1385 This tree is	birch located app Paper birch located app Big leaf	papyrifera) roximately 1 (Betula papyrifera) roximately 1 (Acer macrophyl	10" .5' south of 1 15" .5' south of 1	the southea 20' the front do	st corner of Poor or at the sou	the house. 15' uth end of t	15 he house.	7.5	No	Yes	No
This tree is 1385 This tree is 1	birch located app Paper birch located app Big leaf maple	papyrifera) roximately 1 (Betula papyrifera) roximately 1 (Acer macrophyl lum)	10" .5' south of 1 15" .5' south of 1 4"	20' the front do	st corner of Poor	the house.	15				
This tree is 1385 This tree is 1	birch located app Paper birch located app Big leaf maple e middle of t	papyrifera) roximately 1 (Betula papyrifera) roximately 1 (Acer macrophyl lum)	10" .5' south of 1 15" .5' south of 1 4"	20' the front do	st corner of Poor or at the sou	the house. 15' uth end of t	15 he house.	7.5	No	Yes	No
This tree is 1385 This tree is 1	birch located app Paper birch located app Big leaf maple e middle of t Black	papyrifera) roximately 1 (Betula papyrifera) roximately 1 (Acer macrophyl lum) the property (Populus	10" .5' south of 1 15" .5' south of 1 4"	20' the front do	st corner of Poor or at the sou	the house. 15' uth end of t	15 he house.	7.5	No	Yes	No
This tree is 1385 This tree is 1	birch located app Paper birch located app Big leaf maple e middle of t	papyrifera) roximately 1 (Betula papyrifera) roximately 1 (Acer macrophyl lum)	10" .5' south of 1 15" .5' south of 1 4"	20' the front do	st corner of Poor or at the sou	the house. 15' uth end of t	15 he house.	7.5	No	Yes	No
This tree is 1385 This tree is 1 Located the 2	birch located app Paper birch located app Big leaf maple e middle of t Black cottonwo od	papyrifera) roximately 1 (Betula papyrifera) roximately 1 (Acer macrophyl lum) the property (Populus trichocarp a)	10" 5' south of t 15" 5' south of t 4" at the bord	the southea 20' the front do 15' er. 15'	st corner of Poor or at the sou Good	the house. 15' ith end of t 6'	15 he house. 4'	7.5 2'	No	Yes No	No Yes
This tree is 1385 This tree is 1 Located the 2	birch located app Paper birch located app Big leaf maple e middle of t Black cottonwo od	papyrifera) roximately 1 (Betula papyrifera) roximately 1 (Acer macrophyl lum) the property (Populus trichocarp a) st corner of	10" 5' south of t 15" 5' south of t 4" at the bord	the southea 20' the front do 15' er. 15'	st corner of Poor or at the sou Good	the house. 15' ith end of t 6'	15 he house. 4'	7.5 2'	No	Yes No	No Yes
This tree is 1385 This tree is 1 Located the 2	birch located app Paper birch located app Big leaf maple e middle of t Black cottonwo od	papyrifera) roximately 1 (Betula papyrifera) roximately 1 (Acer macrophyl lum) the property (Populus trichocarp a)	10" 5' south of t 15" 5' south of t 4" at the bord	the southea 20' the front do 15' er. 15'	st corner of Poor or at the sou Good	the house. 15' ith end of t 6'	15 he house. 4'	7.5 2'	No	Yes No	No Yes
This tree is 1385 This tree is 1 Located the 2	birch located app Paper birch located app Big leaf maple e middle of t Black cottonwo od	papyrifera) roximately 1 (Betula papyrifera) roximately 1 (Acer macrophyl lum) the property (Populus trichocarp a) st corner of (Magnolia	10" 5' south of t 15" 5' south of t 4" at the bord	the southea 20' the front do 15' er. 15'	st corner of Poor or at the sou Good	the house. 15' ith end of t 6'	15 he house. 4'	7.5 2'	No	Yes No	No Yes
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This tree is 1385 This tree is 1 Located th 2 Located at	birch located app Paper birch located app Big leaf maple e middle of t Black cottonwo od the northea	papyrifera) roximately 1 (Betula papyrifera) roximately 1 (Acer macrophyl lum) the property (Populus trichocarp a) st corner of (Magnolia acuminata)	10" .5' south of t 15" .5' south of t 4" at the bord 5" the back por 5"	the southea 20' the front do 15' er. 15' rch.	st corner of Poor or at the sou Good	the house. 15' ith end of th 6' 6.5'	15 he house. 4' 5'	7.5 2' 2.5	No No	Yes No	No Yes No
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This tree is 1385 This tree is 1 Located the 2 Located at 3 Located at	birch located app Paper birch located app Big leaf maple e middle of t Black cottonwo od the northea Magnolia the northea Japanese Maple	papyrifera) roximately 1 (Betula papyrifera) roximately 1 (Acer macrophyl lum) the property (Populus trichocarp a) st corner of (Magnolia acuminata) st corner of (Acer palmatum) st corner of (Acer	10" 5' south of 1 15" 5' south of 1 4" at the bord 5" the back por 5" the property 5" the house.	the southea	st corner of Poor or at the sou Good Fair	the house. 15' ith end of th 6' 6.5' 12'	15 he house. 4' 5'	7.5 2' 2.5 2.5'	No No	Yes No No	No Yes No
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RZC 21.72.060 (A) (1) TREE RETENTION / RZC 21.72.080 (B) TREE REPLACEMENT

19.10.060 (A)(2) In all developments a minimum of 30% of all significant trees shall be retained over a rolling 5 year period.

19.10.070 Significant trees shall be replaced as followed:

- 1:1. for trees less than 10 inches in diameter.
- 1:2 for trees 10-24" in diameter. 1:3 for trees 24-36" in diameter.
- 1:6 for trees greater than 36" in diameter

	Total Trees	Hazard Non-Viable	Trees Retained	Significant Tree Removed	Replacement Ratio	Required Replanting
Less than 10"	0	0	0	0	1:1	0
10-24"	6	0	3	3	1:2	6
24-36"	1	0	1	0	1:3	0
+36"	1	0	1	0	1:6	0
Viable Trees		Retained	Per	cent	Total Replanting	
	1	8	5	5/8=	63%	6

Replacement trees shall be primarily native species. a. Two-and-one-half-inch caliper for deciduous trees.

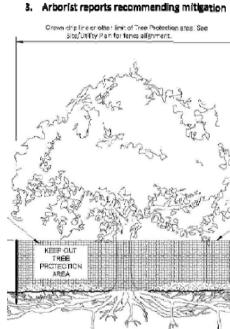
Minimum size for replacement trees: b. Six feet in height for evergreen trees.

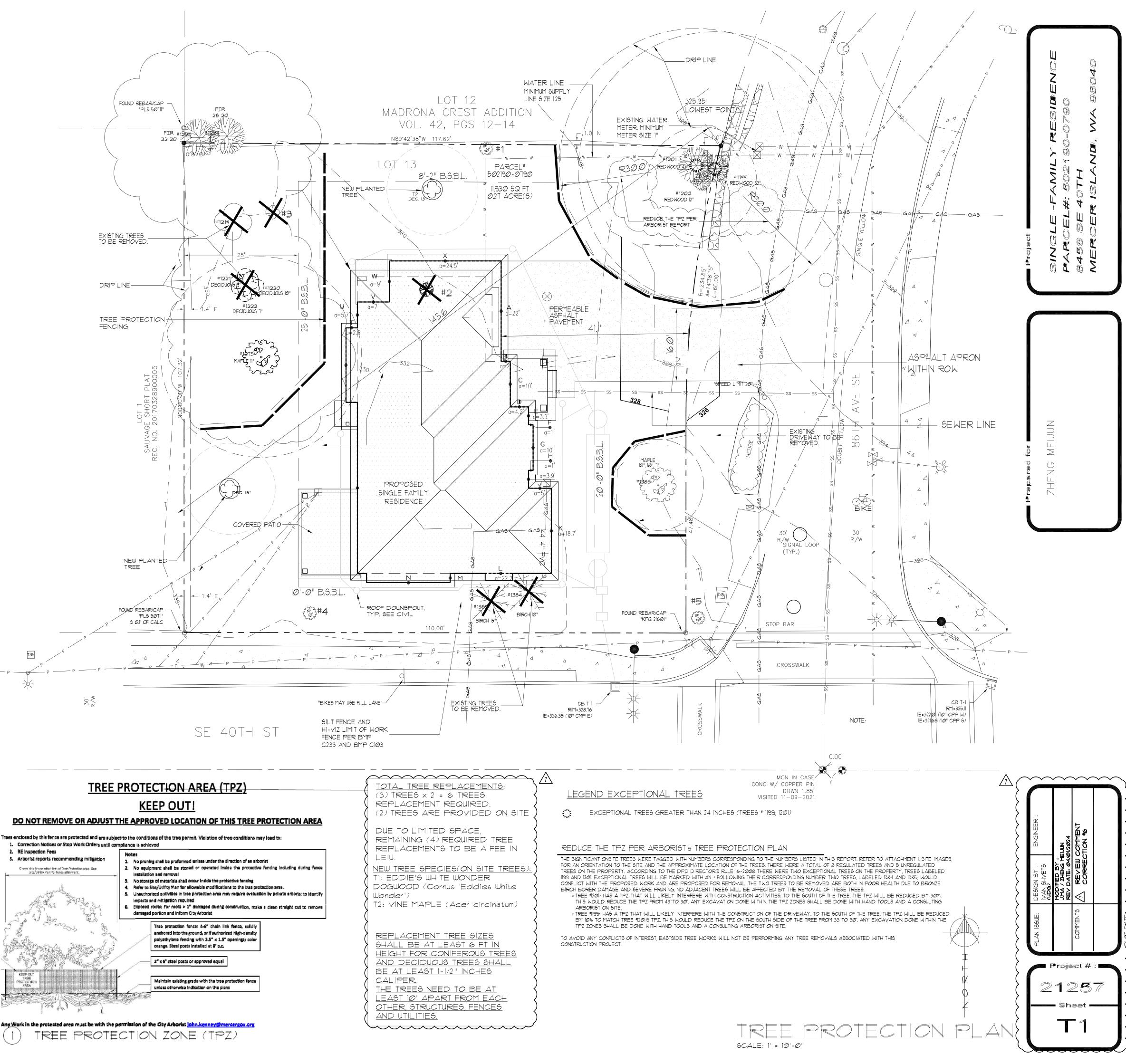


2. RE inspection Fees

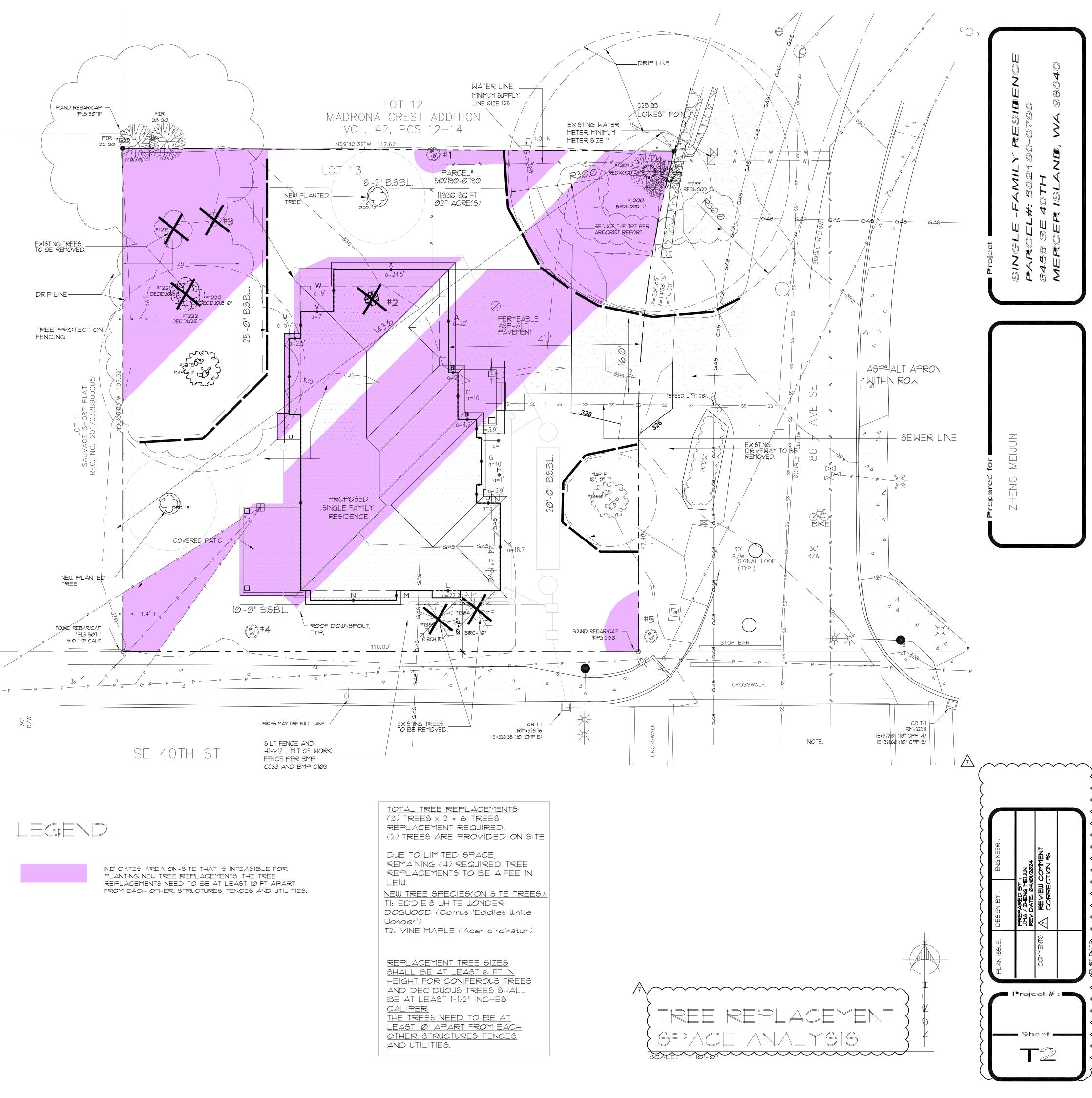
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TREE PROTECTION ZONE (TPZ)



CLEARING AND GRADING STANDARD NOTES

1. ALL CLEARING & GRADING CONSTRUCTION MUST BE IN ACCORDANCE WITH CITY OF MERCER ISLAND CLEARING & GRADING CODE: CLEARING & GRADING EROSION CONTROL STANDARD: LAND USE CODE: UNIFORM BUILDING CODE: PERMIT CONDITIONS; AND ALL OTHER APPLICABLE CODES, ORDINANCES, AND STANDARDS. THE DESIGN ELEMENTS WITHIN THESE PLANS HAVE BEEN REVIEWED ACCORDING TO THESE REQUIREMENT. ANY VARIANCE FROM ADOPTED EROSION STANDARDS IS NOT ALLOWED UNLESS SPECIFICALLYAPPROVED BY THE CITY OF MERCER ISLAND PUBLIC WORKS AND COMMUNITY DEVELOPMENT (PCD) PRIOR TO CONSTRUCTION.

IT IS THE SOLE RESPONSIBILITY OF THE APPLICANT AND THE PROFESSIONAL CIVIL ENGINEER TO CORRECT ANY ERROR, OMISSION, OR VARIATION FROM THE ABOVE REQUIREMENTS FOUND IN THESE PLANS. ALL CORRECTIONS WILL BE AT NO ADDITIONAL COST OR LIABILITY TO THE COB. ALL DETAILS FOR STRUCTURAL WALLS, ROCKERIES OVER FOUR FEET IN HEIGHT, GEOGRID REINFORCED ROCKERIES, AND GEOGRID REINFORCED MODULAR BLOCK WALLS MUST BE STAMPED BY A PROFESSIONAL ENGINEER.

2. A COPY OF THE APPROVED PLANS MUST BE ON-SITE DURING CONSTRUCTION. THE APPLICANT IS RESPONSIBLE FOR OBTAINING ANY OTHER REQUIRED OR RELATED PERMITS PRIOR TO BEGINNING CONSTRUCTION

3. ALL LOCATIONS OF EXISTING UTILITIES HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD, THEREFORE, BE CONSIDERED ONLY APPROXIMATE AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS AND TO DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN.

4. THE AREA TO BE CLEARED AND GRADED MUST FLAGGED BY THE CONTRACTOR AND APPROVED BY THE CLEARING & GRADING INSPECTOR PRIOR TO BEGINNING ANY WORK ON THE SITE.

5. A REINFORCED SILT FENCE MUST BE INSTALLED AS SHOWN ON THE APPROVED PLANS OR PER THE CLEARING & GRADING INSPECTOR, ALONG SLOPE CONTOURS AND DOWN SLOPE FROM THE BUILDING SITE.

6. A HARD-SURFACE CONSTRUCTION ACCESS PAD IS REQUIRED. THIS PAD MUST REMAIN IN THE PLACE UNTIL PAVING IS INSTALLED.

7. CLEARING WILL BE LIMITED TO THE AREAS WITHIN THE APPROVED DISTURBANCE LIMITS, EXPOSED SOILS MUST BE COVERED AT THE END OF EACH WORKING DAY WHEN WORKING FROM OCTOBER 1ST THROUGH APRIL 30. FROM MAY THROUGH SEPTEMBER 30, EXPOSED SOILS MUST BE COVERED AT THE END OF EACH CONSTRUCTION WEEK AND ALSO AT THE THREAT OF RAIN.

8. ANY EXCAVATED MATERIAL REMOVED FROM THE CONSTRUCTION SITE AND DEPOSITED ON THE PROPERTY WITHIN THE CITY LIMITS MUST BE DONE IN COMPLIANCE WITH VALID CLEARING & GRADING PERMIT. LOCATIONS FOR THE MOBILIZATION AREA AND STOCKPILED MATERIALS MUST APPROVED BY THE CLEARING & GRADING INSPECTOR AT LEAST 24 HOURS IN ADVANCE OF ANY STOCKIPLING.

9. TO REDUCE THE POTENTIAL FOR EROSION OF EXPOSED SOILS, OR WHEN RAINY SEASON CONSTRUCTION IS PERMITTED, THE FOLLOWING BEST MANAGEMENT PRACTICES (BMPS) ARE REQUIRED:

- * PRESERVED NATURAL VEGETATION FOR AS LONG AS POSSIBLE OR AS REQUIRED BY THE CLEARING & GRADING INSPECTOR. * PROTECT EXPOSED SOIL USING PLASTIC (EC-14), EROSION CONTROL BLANKETS, STRAW OR MULCH (COB GUIDE TO MULCH, RATES, AND USE CHART), OR AS DIRECTED BY THE CLEARING & GRADING INSPECTOR.
- * INSTALL CATCH BASIN INSERTS AS REQUIRED BY THE CLEARING & GRADING INSPECTOR OR PERMIT CONDITIONS OF APPROVAL. * INSTALL A TEMPORARY SEDIMENT POND, A SERIES OF SEDIMENTATION TANKS, TEMPORARY FILTER VAULTS, OR OTHER SEDIMENT CONTROL FACILITIES. ISTALLATION OF EXPOSED AGGREGATE SURFACES REQUIRES A SEPARATE EFFLUENT COLLECTION POND ON -SITE.

10. FINAL SITE GRADING MUST DIRECT DRAINAGE AWAY FROM ALL BUILDING STRUCTURES AT MINIMUM 2% SLOPE, PER UNIFORM BUILDING CODE.

11. THE CONTRACTOR MUST MAINTAIN A SWEEPER ON - SITE DURING EARTHWORK AND IMMEDIATELY REMOVE SOIL THAT HAS BEEN TRACKED ONTO PAVED AREAS AS RESULT OF CONSTRUCTION.

12. A PUBLIC INFORMATION SIGN LISTING 24-HOUR EMERGENCY NUMBER FOR THE CITY AND THE CONTRACTOR MAY BE PROVIDED TO THE APPLICANT AT THE TIME THE CLEARING & GRADING PERMIT IS ISSUED. THE APPLICANT MUST POST THE SIGN AT THE PROJECT SITE IN FULL VIEW OF THE PUBLIC AND THE CONTRACTORS, AND IT MUST REMAIN POSTED UNTIL FINAL SIGN -OFF BY THE CLEARING & GRADING INSPECTOR.

13. TURBIDITY MONITORING MAY BE REQUIRED AS A OF CLEARING & GRADING PERMIT APPROVAL. IF REQUIRED, MONITORING MUST BE PERFORMED IN ACCORDANCE WITH THE APPROVED TURBIDITY MONITORING PLAN AND AS DIRECTED BY THE CLEARING & GRADING INSPECTOR. MONITORING MUST DURING SITE (EARTHWORK) CONSTRUCTION UNTIL THE FINAL SIGN - OFF BY THE CLEARING & GRADING INSPECTOR.

14. ANY PROJECT THAT IS SUBJECTED TO RAINY SEASON RESTRICTIONS WILL NOT BE ALLOWED TO PERFORM CLEARING & GRADING ACTIVITIES WITHOUT WRITTEN APPROVAL FROM THE CITY ENGINEER. THE RAINY SEASON EXTENDS FROM NOVEMBER 1ST THROUGH APRIL 30.

RESTORATION NOTES

1) Surface restoration of existing asphalt pavement shall be as required by the right-of-way use permit. 2) The Contractor shall restore the Right-of-Way and existing public storm drainage easement(s) after construction to a condition equal or better than condition prior to entry. The Contractor shall furnish a signed release from all affected property owners after restoration has been completed.

FIELD BOOK:	
SURVEYED:	
SURVEY BASE MAP <u>:</u>	
DESIGN ENTERED:	J.W
DESIGNED	S.W
CHECKED:	S.W



TANDEM ENGINEERING CONSULTANT LLC 8822 NE 178TH ST BOTHELL, WA 98011 (206) 795-5674

UTILITY NOTES

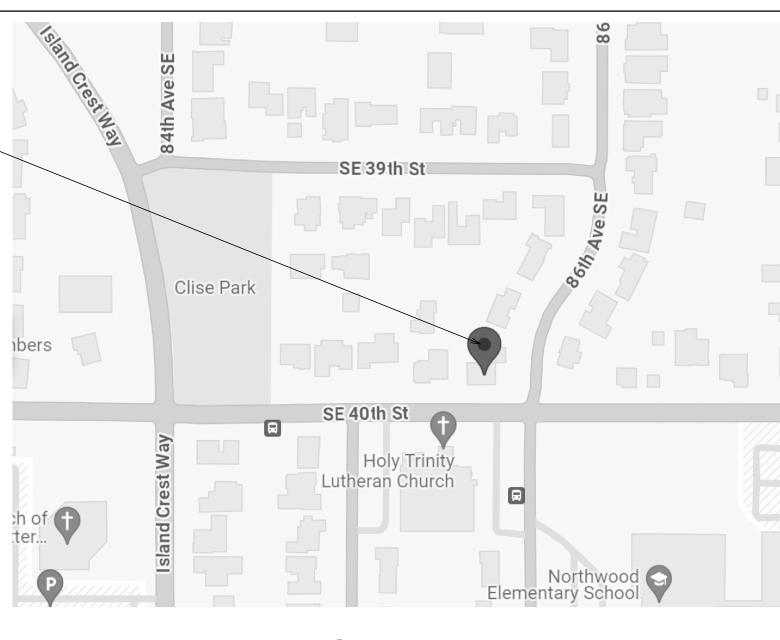
- 1) The locations of all existing utilities shown hereon have been established by field survey or obtained from available records and should therefore be considered approximate
- only and not necessarily complete. It is the sole responsibility of the excavator to independently verify the accuracy of all utility locations shown, and to further discover and avoid any other utilities not shown here on which may be affected by the implementation of this plan. Immediately notify the responsible Professional Engineer if a conflict exists. 2) Call 1-800-424-5555, or 8-1-1, 72 hours before construction for utility locates.
- 3) The Contractor shall maintain a minimum of five feet (5) horizontal separation between all water and storm drainage lines. Any conflict shall be reported to the Utility and the Professional Engineer prior to construction.
- 4) Avoid crossing water or sewer mains at highly acute angles. The smallest angle measure between utilities should be 45 degrees. 5) It shall be the Contractors responsibility to ensure that no conflicts exist between storm drainage lines and proposed or existing utilities prior to construction.
- 6) At points where existing thrust blocking is found, minimum clearance between concrete blocking and other buried utilities or structures shall be 5 feet.
- Where a new utility line crosses below an existing AC main, the AC pipe shall be replaced with DI pipe to 3 feet past each side of the trench as shown on Standard Detail W-8. Alternatively, where directed by the Utility, the trench shall be backfilled with controlled density fill (CDF, aka flowable fill) from bottom of trench to bottom of AC main.

STORM DRAINAGE NOTES

- Storm pipe shall be PVC conforming to ASTM D-3034 SDR35 or ASTM F-679. Bedding and backfill shall be as shown in the Standard Details. 2) The footing drainage system and the roof downspout system shall not be interconnected and shall separately convey collected
- flows to the conveyance system or to on-site storm water facilities. Prior to final inspection and acceptance of storm drainage work, pipes and storm drain structures shall be cleaned and flushed.
- Any obstructions to flow within the storm drain system, (such as rubble, mortar and wedged debris), shall be removed at the nearest structure. Wash water of any sort shall not be discharged to the storm drain system or surface waters. 4) Ends of each storm drain stub at the property line shall be capped and located with an 8' long 2" x 4" board, embedded to
- the stub cap and extending at least 3 feet above grade, and marked permanently "STORM". A copper 12 ga. locate wire firmly attached. The stub depth shall be indicated on the marker.
- All grates in roadways shall be ductile iron, bolt-locking, vane grates per the Standard Details. Structures in traffic lanes outside of the curb line which do not collect runoff shall be fitted with round, bolt-locking solid covers. Off-street structures which do not collect runoff shall be fitted with bolt-locking solid covers.
- Vegetation/landscaping in the detention pond, bioretention facility, vegetated roof and/or drainage swale(s) are an integral part of the runoff treatment system for the project. Such drainage facilities will not be accepted until plantings are established. All new manholes shall have a minimum inside diameter of 48' and shall conform to the Standard Details. All new catch basins
- shall conform to the Standard Details.
- Side storm stations are referenced from nearest downstream manhole/ catch basin. All testing and connections to existing mains shall be done in the presence of a representative of the City of Mercer Island Utilities Department.
- 10) All public storm drains shall be air tested and have a video inspection performed prior to acceptance (see #23 below). Storm main constructed with flexible pipe shall be deflection tested with a mandrel prior to acceptance.
- 11) Storm stubs shall be tested for acceptance at the same time the main storm is tested.
- 12) All manholes/ catch basins in unpaved areas shall include a concrete seal around adjustment rings per Standard Details. 13) All storm main extensions within the public right-of-way or in easements must be staked by a surveyor licensed in Washingtor
- State for line and grade and cut sheets provided to the Professional Engineer, prior to starting construction. 14) Storm drainage mainlines, stubs and fittings shall be constructed using the same pipe material and manufacturer. Connections between stubs and the mainline will be made with a tee fitting. Tee fitting shall be from same manufacturer as pipe. Cut-in connections are
- only allowed when connecting a new stub to an existing mainline. 15) Manholes, catch basins and vaults are considered to be permit-required confined spaces. Entry into these spaces shall be in accordance
- with Chapter 296-809 WAC. 16) Placement of surface appurtenances (MH lids, valve lids, etc.) in tire tracks of traffic lanes shall be avoided whenever possible.
- 17) The Contractor shall perform a video inspection and provide a DVD of the storm pipe interior for the Citys review. The video shall provide a minimum of 14 lines per millimeter resolution and cover the entire length of the applicable pipe. The camera shall be moved through the pipe at a uniform rate (=30 ft/min), stopping when necessary to ensure proper documentation of the pipe condition. The video shall be taken after installation and cleaning to insure that no defects exist. The project will not be accepted until all defects have been repaired
- 18) Clearly label public and private systems on the plans. Private systems shall be marked private and shall be maintained by the property owner(s)
- 19) All concrete structures (vaults, catch basins, manholes, oil/water separators, etc.) shall be vacuum tested.
- 20) Manholes, catch basins and inlets in easements shall be constructed to provide a stable, level grade for a minimum radius of 2.5 feet around the center of the access opening to accommodate confined space entry equipment.
- 21) Tops of manholes/ catch basins within public right-of-way shall not be adjusted to final grade until after paving.
- 22) Contractor shall adjust all manhole/ catch basin rims to flush with final finished grades, unless otherwise shown. 23) Contractor shall install, at all connections to existing downstream manholes/catch basins, screens or plugs to prevent foreign materials from entering existing storm drainage system. Screens or plugs shall remain in place throughout the duration of the construction and shall be removed along with collected debris at the time of final inspection and in the presence of a representative of the City of Bellevue Utilities Department.
- 24) Before commencement of trenching, the Contractor shall provide filter fabric for all downhill storm drain inlets and catch basins, which will receive runoff from the project site. The contractor shall periodically inspect the condition of all filter fabric and replace as necessary.
- 25) Minimum cover over storm drainage pipe shall be 2 feet, unless otherwise shown. 26) Redirect sheet flow, block drain inlets and/or curb openings in pavement and install flow diversion measures to prevent construction silt laden runoff and debris from entering excavations and finish surfaces for bioretention facilities and permeable pavements.
- 27) Where amended soils, bioretention facilities, and permeable pavements are installed, these areas shall be protected at all times from being over-compacted. If areas become compacted, remediate and till soil in accordance with the Citys Project Representatives requirements at no additional cost in order to restore the systems ability to infiltrate.

GENERAL NOTES

PROPOSED PROJECT SITE



VICINITY MAP

NTS

LEGAL DESCRIPTION MADRONA CREST ADD

PARCEL NUMBER: 502190-0790

PROPERTY OWNER: ZHENG RESIDENCE 8456 SE 40TH ST **MERCER ISLAND WA 98040**

PROJECT ENGINEER: STEVE WU

8822 NE 178TH ST BOTHELL, WA 98011 TEL:206-795-5674

ZHENG RESIDENCE 8456 SE 40TH ST **MERCER ISLAND WA 98040**

SHEET OF 6 SHEETS C-1.00

GENERAL TESC NOTES

Temporary erosion and sedimentation control facilities (TESC) (including but not limited to temporary construction entrance, catch basin protection, silt fence installation, interceptor ditches, sedimentation ponds and straw bales) must be in place and Inspected by the City of Mercer Island prior to demolition, clearing/grading, etc. Spoil piles shall be kept covered. All City streets shall be kept free of mud and construction debris. TESC facilities shall be maintained until final landscaping is completed. No sediment-laden water shall enter Lake Washington, the public storm drain system, water courses, sensitive areas or the adjacent properties. Not all of these facilities may be identified on this plan but may be required during construction. Contractor will adhere to additional requirements as conditions warrant and the project progresses, including cleaning of downstream catch basins and drainage facilities of sediment from this project.

PLAN NOTES

- 1. Approval of this temporary erosion and sedimentation control (TESC) plan does not constitute an approval of permanent road or drainage design.
- 2. The implementation of these TESC plans and the construction, maintenance, replacement, and upgrading of these TESC facilities is the responsibility of the owner/agent and/or their contractor until all construction is approved.
- The boundaires of the clearing limits shown on this plan shall be clearly flagged by a continuous length of survey tape (or fencing, if required) prior to 3. construction. During the construction period, no disturbance beyond the clearing limits shall be permitted. The clearing limits shall be maintained by the owner/agent and/or their contractor for the duration of construction.
- The TESC 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 4. sediment to surface waters, drainage systems, and adjacent properties is minimized.
- 5. The TESC facilities shown on this plan are the minimum requirements for anticipated site conditions. During the construction period, these TESC facilities shall be upgraded as needed for unexpected storm events and modified to account for changing site conditions (e.g., additional sump pumps, relocation of ditches, hay bales and silt fences, etc.).
- 6. The TESC facilities shall be inspected daily by the owner/agent and/or their contractor and maintained to ensure continued proper functioning. Written records shall be kept of weekly reviews of the TESC facilities during the wet season (Oct. 1 to April 30) and of monthly reviews during the dry season (May 1 to Sept. 30).
- 7. Any areas of exposed soils, including roadway embankments, that will not be disturbed for two days during the wet season (Oct. 1 to April 30) or seven days during the dry season (May 1 to Sept. 30). shall be immediately stabilized with approved TESC methods (e.g., seeding, mulching, plastic covernig, etc.).
- 8. Any area needing TESC measures that do not require immediate attention shall be addressed within fifteen (15) days.
- 9. The TESC fa cilities on inactive sites shall be inspected and maintained a minimum of once a month or within forty- eight (48) hours following a storm event. 10. 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 final grading and/or paving. The cleaning operation shall not flu sh sedimentl-aden water into the downstream system.
- 11. Stabilized construction entrances and roads shall be installed at the beginning of construction and maintained for the duration of the project. Additional measures, such as wash pads and sediment traps, may be required to ensure that all paved areas are kept clean for the duration of the project.
- 12. Any permanent flow control facility used as a temporary settling basin shall be modified with the necessary temporary erosion control measures and shall provide adequate storage capacity.
- 13. Where straw mulch for temporary erosion control is required, it shall be applied at a minimum thickness of 2 to 3 inches.
- 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. The City can require seeding of additional areas in order to protect surface waters, adjacent properties, or drainage facilities.

Construction Sequence:

- 1. Hold an onsite pre-construction meeting.
- 2. Flag or fence clearing limits.
- 3. Install catch basin protection, if required.
- 4. Grade and install construction entrance(s).
- 5. Install perimeter protection (silt fence, brush barrier, etc.).
- 6. Construct sediment pond(s) and/or trap(s).

7. Construct surface water controls (interceptor dikes, pipe slope drains, etc.) simultaneously with clearing and grading for project development.

- 8. Maintain TESC measures in accordance with City standards and manufacturer's recommendations.
- 9. Relocate surface water controls or TESC measures, or install new measures so that as site conditions change, the TESC is always in accordance with the City of Mercer Island Temporary Erosion and Sedimentation Control Requirements.
- 10. Cover all areas that will be un-worked for more than two days during the wet season (Oct. 1 to April 30) or seven days during the dry season (May 1 to Sept. 30) with straw, wood fiber mulch, compost, plastic sheeting, or equivalent.
- 11. Stabilize all areas within seven days of reaching final grade.
- 12. Seed or sod any areas to remain un-worked for more than 30 days.
- 13. Upon completion of the project, stabilize all disturbed areas and remove TESC measures if appropriate.

Reference: King County Surface Water Design Manua, I Appendix D - 10.3

FIELD BOOK:	O MIN H
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SURVEY BASE MAP <u>:</u>	1 (* 6-3 *)
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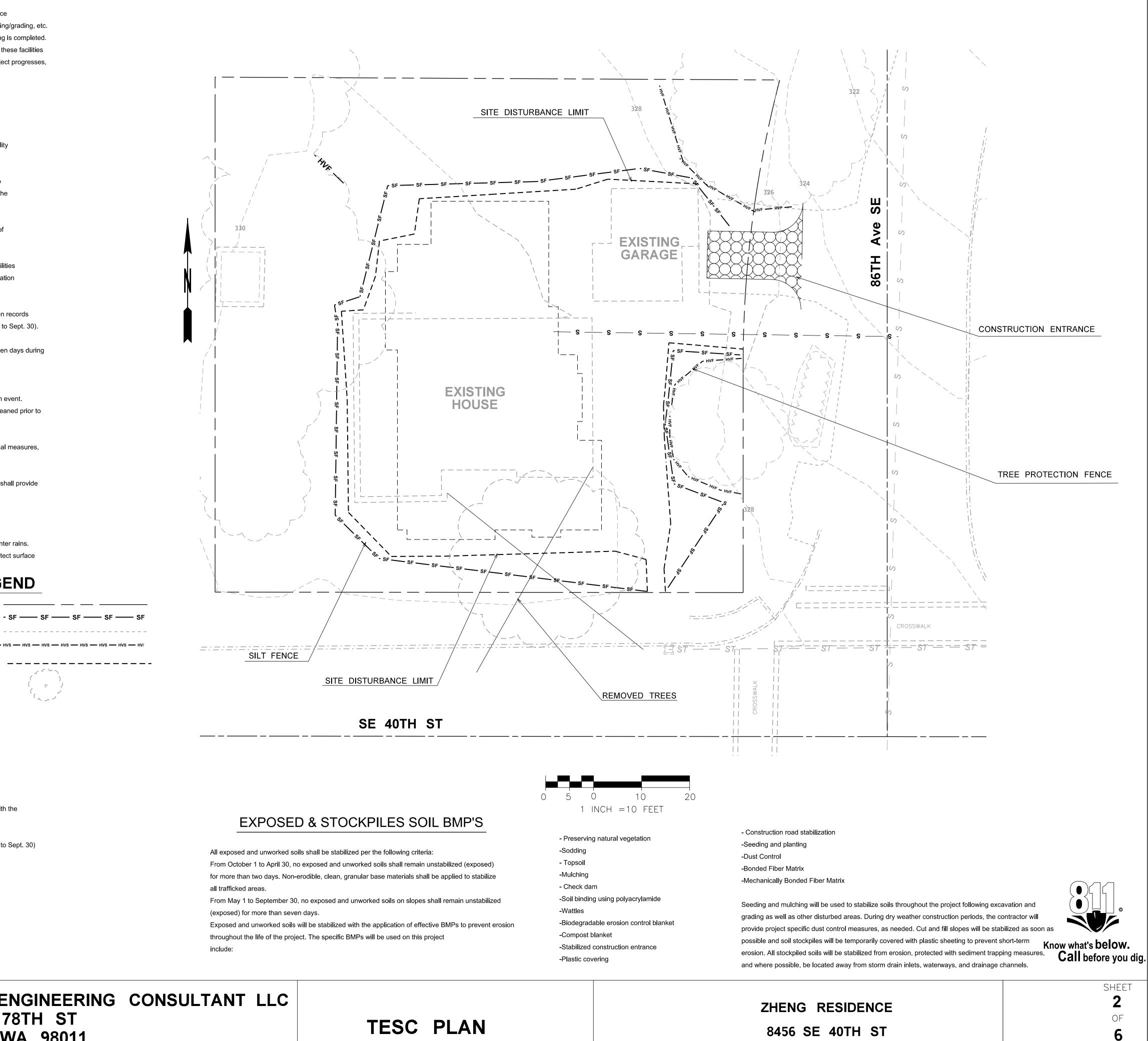
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LEGEND

PROPERTY LINE SILT FENCE EXISTING EDGE PAVEMENT HIGH VISIBLE FENCE FOR TREE PROTECTION **CLEARING & GRUBBING LIMIT**

TREE DRIP LINE

C



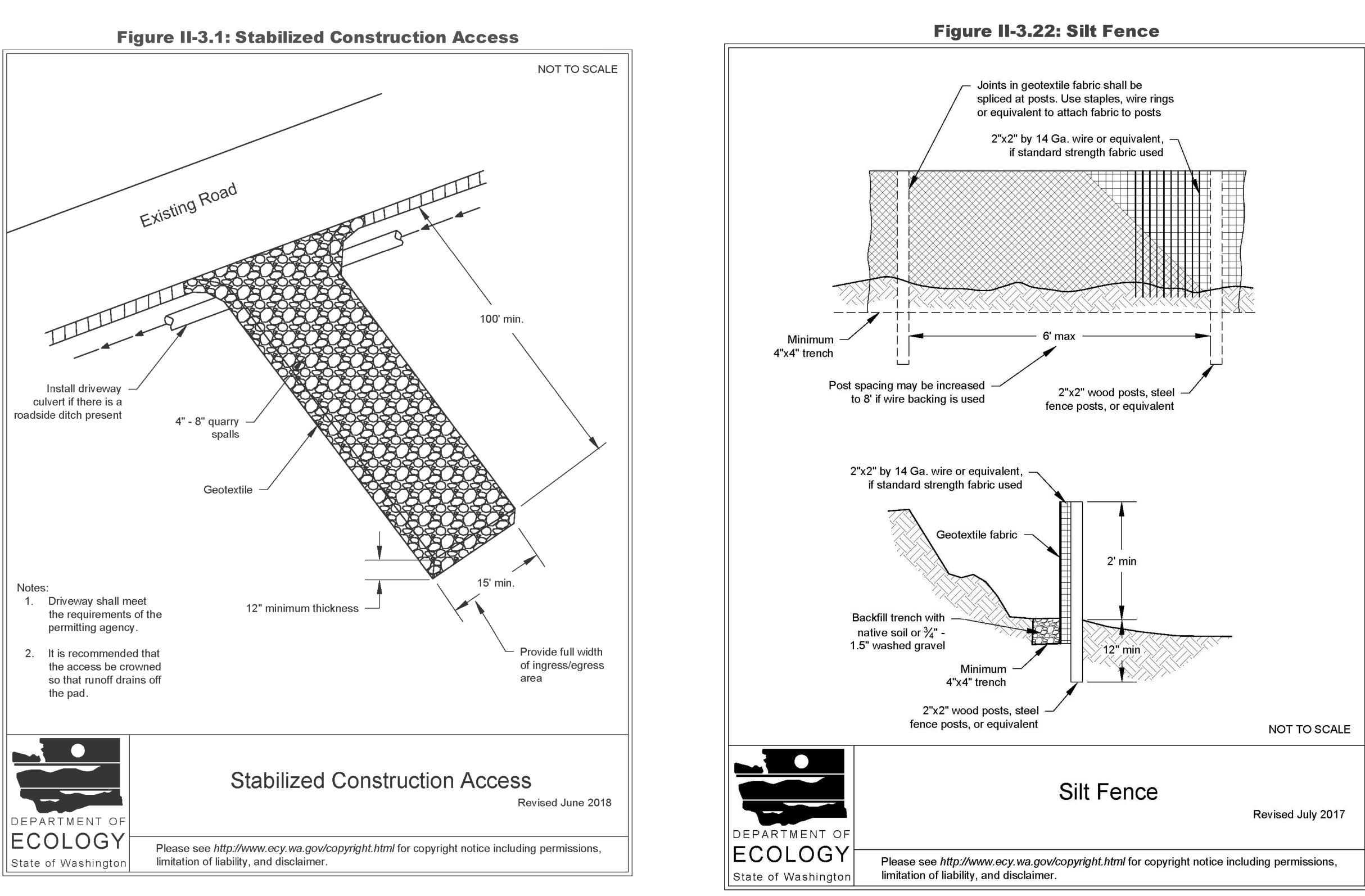
TANDEM ENGINEERING CONSULTANT LLC



MERCER ISLAND WA 98040

C-2.00

SHEETS



FIELD BOOK:	
SURVEYED:	
SURVEY BASE MAP	:
DESIGN ENTERED:_	J.W
DESIGNED _	S.W
CHECKED:	S.W



8822 NE 178TH ST **BOTHELL, WA 98011** (206) 795-5674

TANDEM ENGINEERING CONSULTANT LLC

TESC DETAILS

ZHENG RESIDENCE 8456 SE 40TH ST MERCER ISLAND WA 98040

SHEET 3 OF 6 SHEETS C-3.00

STORM DRAIN ELEVATION

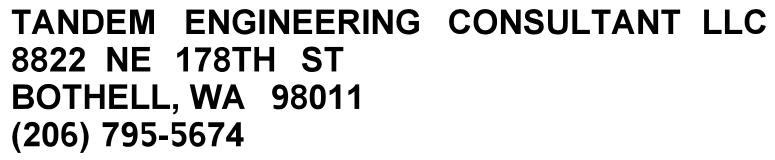
POINT	INVERT	LENGTH (FT.)	S
В	328.5	30	2.0%
С	327.9	45	2.0%
D	327.0	42	2.0%
E	326.16		
G	326.6		
Α	328.0	35	2.0%
F	327.3	39	2.7%
E	326.16		

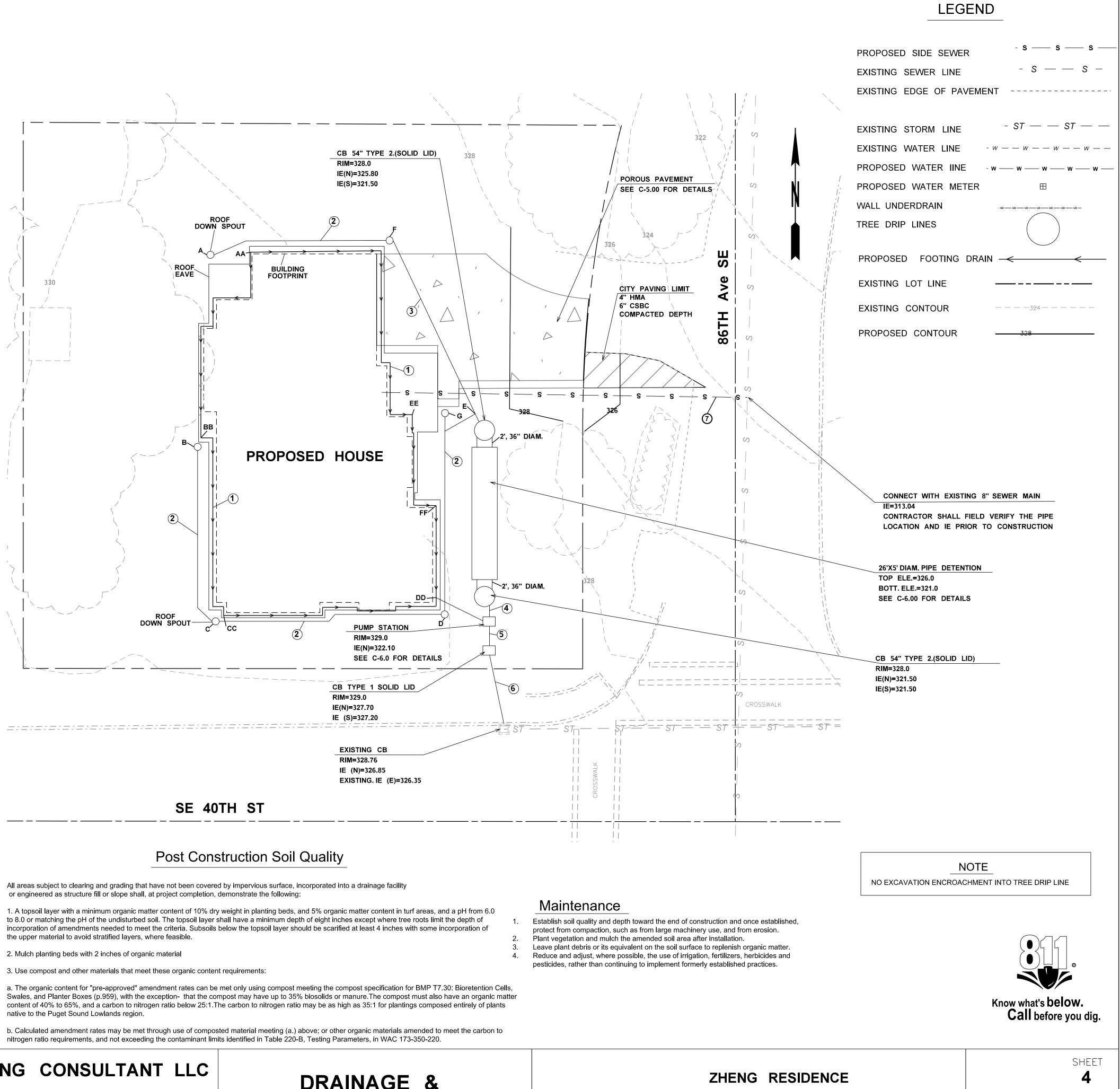
4" PERFORATED FOOTING DRAIN				
POINT	INVERT	LENGTH (FT.)	S	
AA	326.54	49	1.0%	
BB	326.05	37	1.0%	
CC	325.68	46	1.0%	
DD	325.22			
EE	325.91	63	1.0%	
FF	325.66	25	1.0%	
DD	325.22	19	2.3%	

STORM DRAIN & SIDE SEWER NOTES

- (1) 4" FOOTING DRAIN MIN 1.0% GRADE (ASTM D-3034 PVC)
- **2** 4" ROOF DRAIN MIN 2.0% GRADE (ASTM D-3034 PVC)
- 3 4" STORM DRAIN, L=40.0', S=4.5 %, (D.I CL 52)
- **4** 4" STORM DRAIN, L=2.5', S=16.0% (ASTM D-3034 PVC)
- 5 2" FORCE MAIN L=4.0' (D.I CL 52)
- 6) 6" STORM DRAIN, L=14.0',S=2.5%, (ASTM D-3034 PVC) **(7)** 6" SIDE SEWER, L=73.0, S=17.70, (ASTM D-3034 PVC)

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DRAINAGE & **GRADATION PLAN**

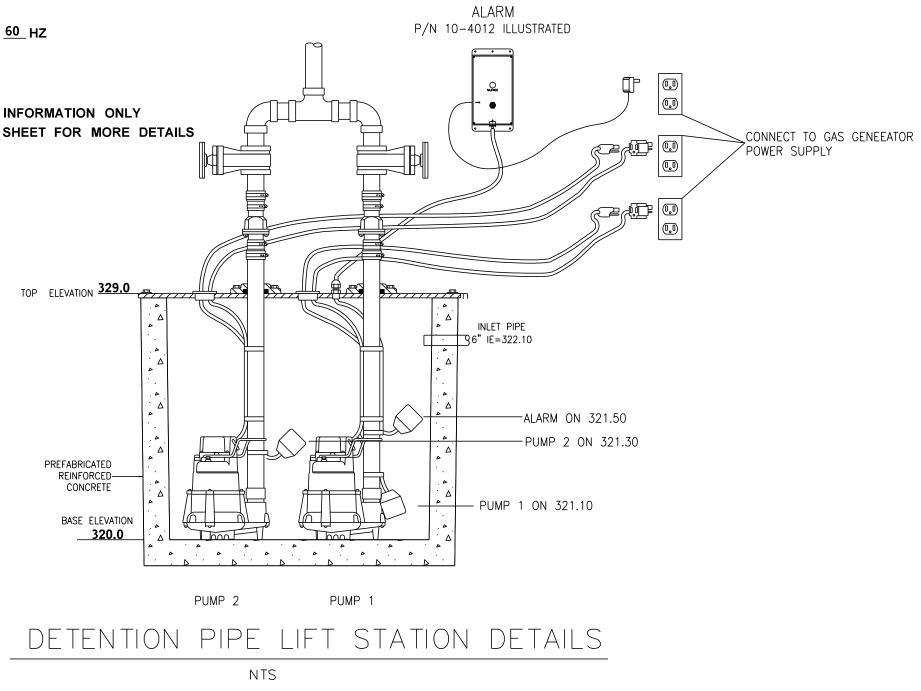
8456 SE 40TH ST MERCER ISLAND WA 98040

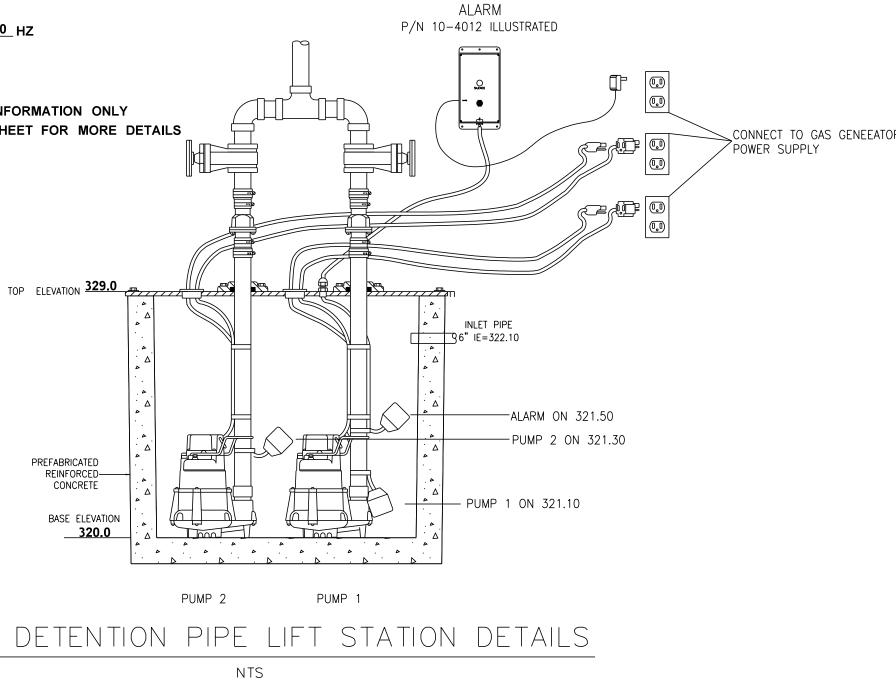
OF 6 SHEETS **C-4.00**

PUMP INFORMATION TYPE: DEWATERING

PUMP MODEL ZOELLER MODEL 50 <u>19</u> GPM <u>13</u> TDH 2" DISCHARGE 1/3 HP 1550 RPM 1<u>4-10.7 AMPS</u> (FLA) <u>220</u> VOLTS<u>1</u> PHASE <u>60</u> HZ INSTALLATION FIELD ASSEMBLED OR MANUFACTORY



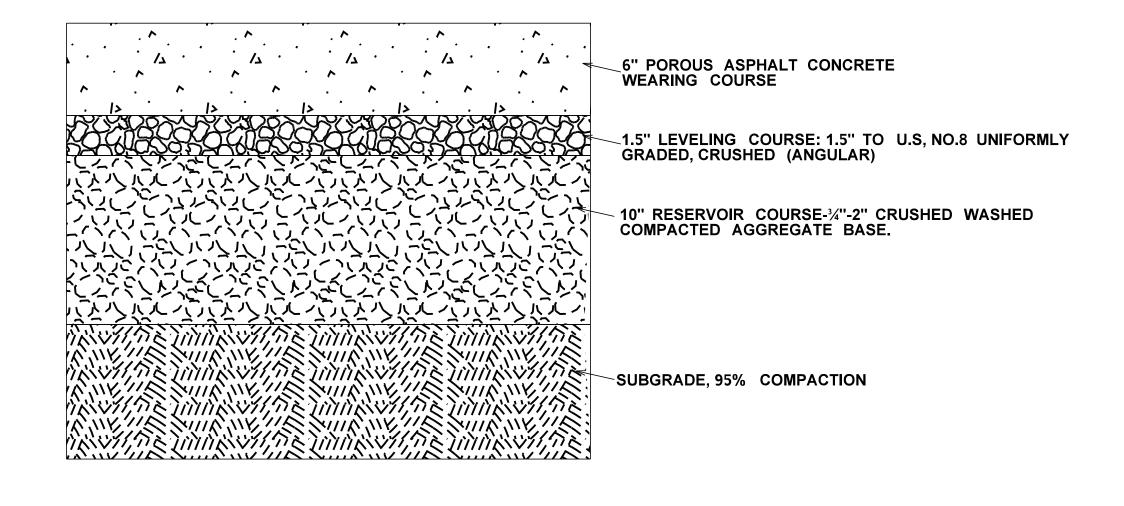




NOTE:

THIS DIAGRAM IS FOR REFERENCE ONLY, CONTRACTOR SHALL CHECK WITH MANUFACTURE FOR DUAL PUMP INSTALLATION.

FIELD BOOK: SURVEYED: SURVEY BASE MAP: DESIGN ENTERED: DESIGNED CHECKED:	J.W S.W	THOMAL LUCK	TANDEM ENG 8822 NE 1787 BOTHELL, WA (206) 795-5674
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POROUS ASPHALT PAVEMENT CROSS SECTION

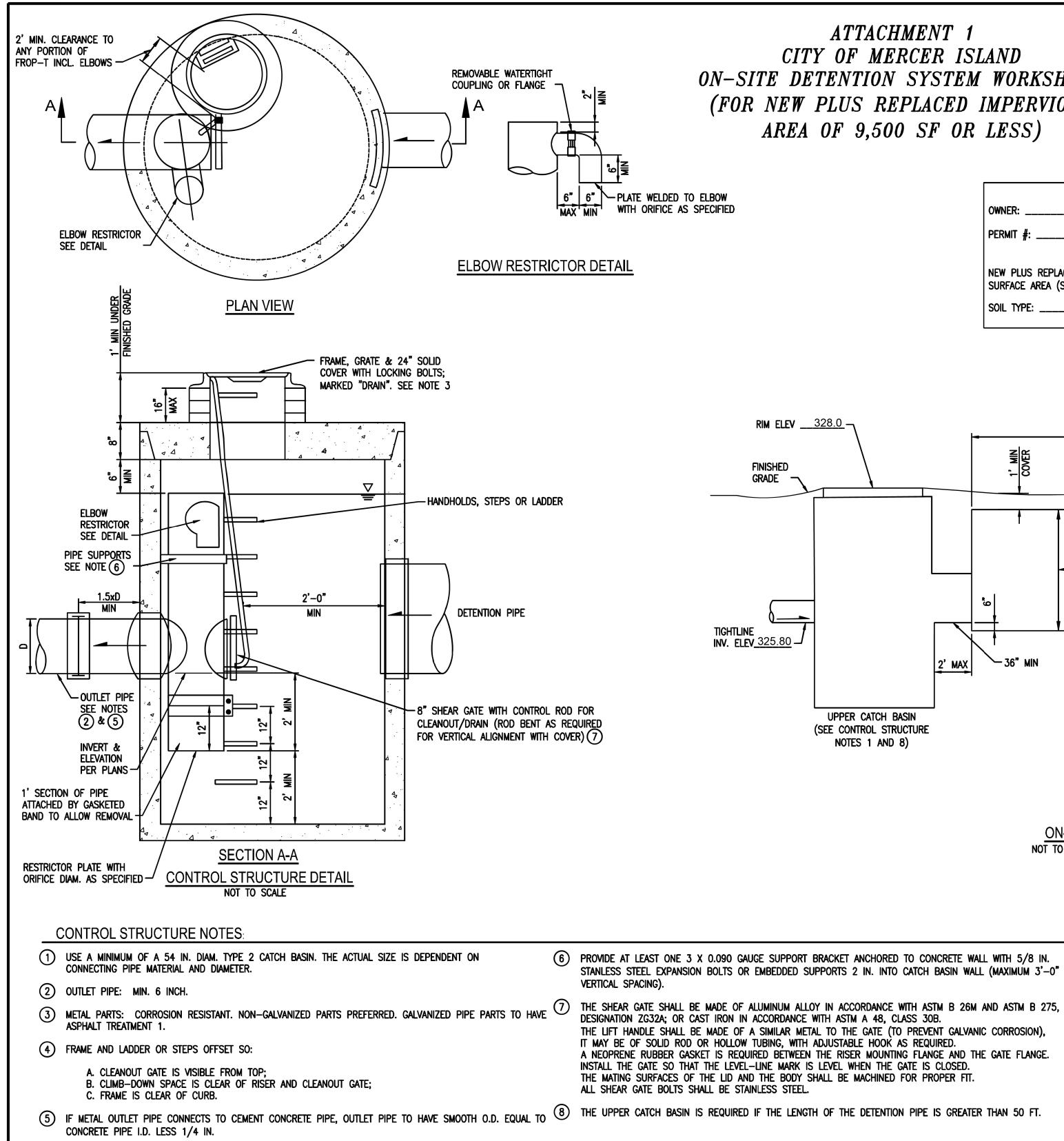
GINEERING CONSULTANT LLC STH ST **98011**

DETAILS

NTS

ZHENG RESIDENCE 8456 SE 40TH ST MERCER ISLAND WA 98040

SHEET 5 OF 6 SHEETS C-5.00



FIELD BOOK:	
SURVEYED:	
SURVEY BASE MAP <u>:</u>	
DESIGN ENTERED:	J.W
DESIGNED	S.W
CHECKED:	S.W



8822 NE 178TH ST **BOTHELL, WA 98011** (206) 795-5674

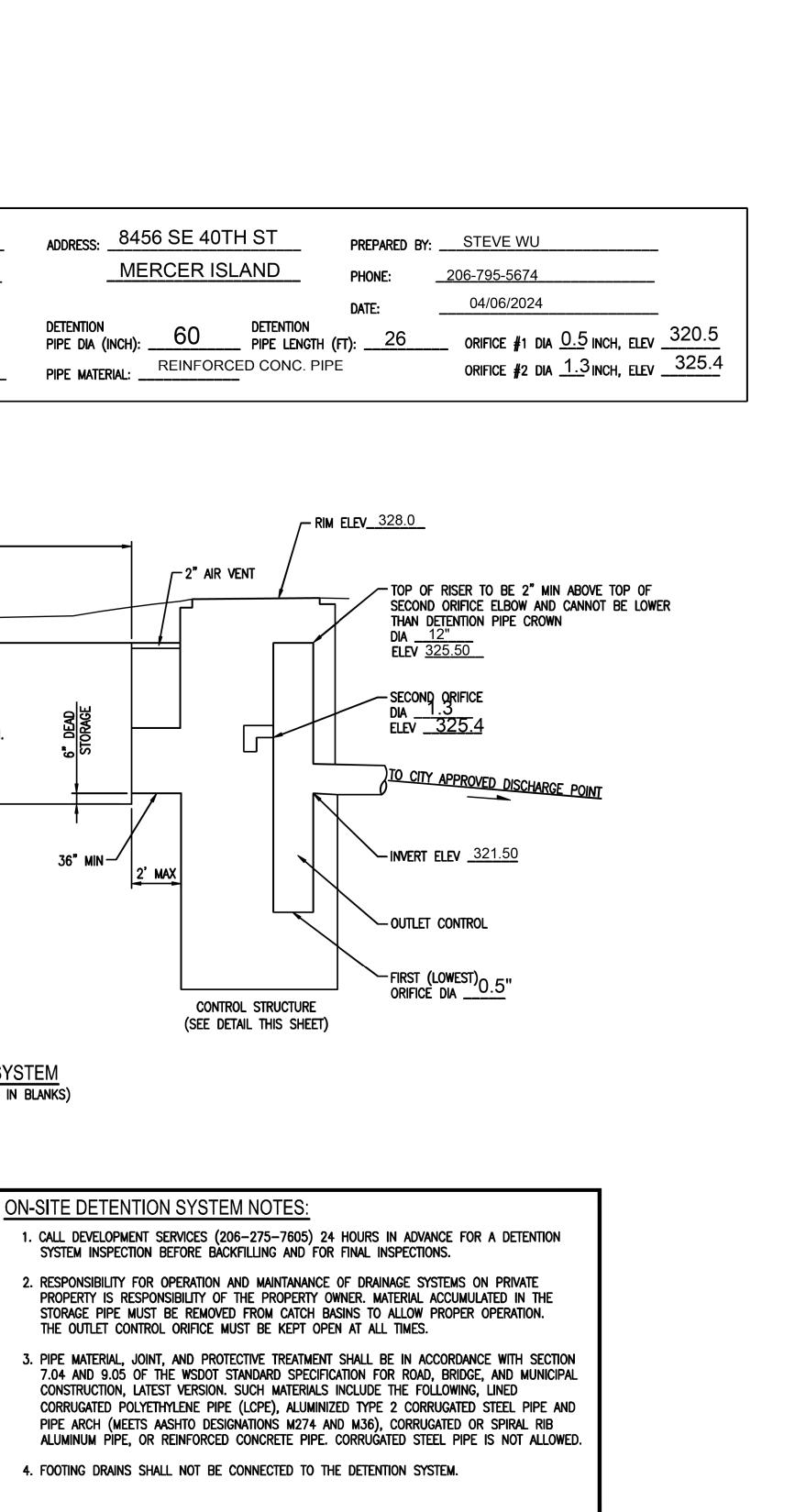
ATTACHMENT 1 CITY OF MERCER ISLAND **ON-SITE DETENTION SYSTEM WORKSHEET** (FOR NEW PLUS REPLACED IMPERVIOUS AREA OF 9,500 SF OR LESS)

Owner:	address: <u>84</u>
Permit #:	M
NEW PLUS REPLACED IMPERVIOUS	Detention
SURFACE AREA (SF): <u>3,019</u>	Pipe dia (Inch)
SOIL TYPE: <u>C</u>	Pipe Material:

DETENTION PIPE LENGTH IS <u>26</u> FT N **FINISHED** DEAD — Detention Pipe Dia IS <u>60</u> In. LEVEL Tightline Inv. Elev<u>325.80</u> – 2' MAX UPPER CATCH BASIN (SEE CONTROL STRUCTURE NOTES 1 AND 8) ON-SITE DETENTION SYSTEM NOT TO SCALE (ENGINEER TO FILL IN BLANKS) (6) PROVIDE AT LEAST ONE 3 X 0.090 GAUGE SUPPORT BRACKET ANCHORED TO CONCRETE WALL WITH 5/8 IN. STANLESS STEEL EXPANSION BOLTS OR EMBEDDED SUPPORTS 2 IN. INTO CATCH BASIN WALL (MAXIMUM 3'-0" THE LIFT HANDLE SHALL BE MADE OF A SIMILAR METAL TO THE GATE (TO PREVENT GALVANIC CORROSION), IT MAY BE OF SOLID ROD OR HOLLOW TUBING, WITH ADJUSTABLE HOOK AS REQUIRED. A NEOPRENE RUBBER GASKET IS REQUIRED BETWEEN THE RISER MOUNTING FLANGE AND THE GATE FLANGE. INSTALL THE GATE SO THAT THE LEVEL-LINE MARK IS LEVEL WHEN THE GATE IS CLOSED. THE MATING SURFACES OF THE LID AND THE BODY SHALL BE MACHINED FOR PROPER FIT.

TANDEM ENGINEERING CONSULTANT LLC

PIPE DETAILS



ZHENG RESIDENCE 8456 SE 40TH ST **MERCER ISLAND WA 98040**

SHEET 6 OF 6 SHEETS **C-6.00**

GENERAL NOTES

- 2018 INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL RESIDENTIAL CODE
- 2018 UNIFORM PLUMBING CODE
- 2018 WASHINGTON STATE ENERGY CODE 2018 WASHINGTON STATE AMENDMENTS

CONTRACTOR SHALL VERIFY ALL NOTES, DIMENSIONS & CONDITIONS PRIOR TO CONSTRUCTION & PROVIDE TEMPORARY BRACING AS REQUIRED UNTIL ALL PERMANENT CONNECTIONS HAVE BEEN INSTALLED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY

REPETITIVE FEATURES NOT NOTED ON THE DRAWINGS SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL

CONTRACTOR SHALL VERIFY ALL ROUGH-IN DIMENSIONS FOR ALL EQUIPMENT TO BE INSTALLED

SITE WORK

GENERAL

UNLESS A SOILS INVESTIGATION BY A QUALIFIED SOILS ENGINEER IS PROVIDED, FOUNDATION DESIGN IS BASED ON AN ASSUMED AVERAGE SOIL BEARING OF 1500 PSF. EXTERIOR FOOTINGS SHALL BEAR 1'6" (MINIMUM) BELOW FINISHED GRADE. ALL FOOTINGS TO BEAR ON FIRM UNDISTURBED EARTH BELOW ORGANIC SURFACE SOILS. BACK FILL TO BE THOROUGHLY COMPACTED. FOUNDATION VENTS SHALL NOT INTERFERE WITH DIRECT LOAD PATH OF COLUMNS.

CONCRETE

- MIX AND 28 DAY STRENGTH OF CONCRETE - BASEMENT WALLS & FOUNDATIONS & OTHER CONCRETE NOT EXPOSED TO WEATHER:
- BASEMENT SLABS & INTERIOR SLABS & INTERIOR SLABS ON GRADE, EXCEPT GARAGE DOOR SLABS
- BASEMENT WALLS & FOUNDATION WALLS, EXTERIOR WALLS & OTHER VERTICAL CONCRETE WORK EXPOSED TO THE WEATHER:

- PORCHES, CARPORT SLABS & STEPS

EXPOSED TO WEATHER, & GARAGE

PER STRUCTURAL S-SHEETS

PER STRUCTURAL

PER STRUCTURAL

S-SHEETS

S-SHEETS

PER STRUCTURAL S-SHEETS

FLOOR SLABS:

GARAGE FLOORS TO SLOPE 1/8"/FT. MIN. TOWARDS OPENING AS REQUIRED FOR DRAINAGE. CONCRETE SLABS TO HAVE CONTROL JOINTS AT 25' FT. (MAX.) INTERVALS EA. WAY. SLABS ARE TO BE 5-AIR ENTRAINED CONCRETE SIDEWALKS TO HAVE 3/4" IN. TOOLED JOINTS AT 5' FT. (MIN.) O.C.

CONCRETE COVER OF REINFORCING

3" CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH. 1 1/2" CONCRETE EXPOSED TO EARTH OR WEATHER.

1 1/2" BEAMS AND COLUMNS NOT EXPOSED TO EARTH OR WEATHER.

3/4" SLABS AND WALLS NOT EXPOSED TO EARTH OR WEATHER.

LAP COLUMN VERTICALS. CLASS "A" CONCRETE AND MASONRY COLUMN AND WALL VERTICALS 52 DIAMETERS. LAP ALL OTHER REINFORCING 24 DIAMETERS. SPLICES AT TENSION REGIONS SHALL NOT BE PERMITTED

CARPENTRY

GENERAL ALL FRAMING TO COMPLY WITH ENGINEERING S-SHEETS FOR NAIL SIZES AND SPACING.

ALL WOOD IN CONTACT WITH CONCRETE TO BE PRESSURE TREATED.

6" MIN. CLEARANCE BETWEEN WOOD AND EARTH. 18" MIN. CLEARANCE BETWEEN FLOOR JOIST AND EARTH.

12" MIN. CLEARANCE BETWEEN FLOOR BEAMS AND EARTH.

FASTENERS FOR PRESSURE PRESERVATIVE AND FIRE-RETARDANT-TREATED WOOD SHALL BE OF HOT-DIPPED GALVANIZED STEEL.

REFERENCE SHEET-S1 FOR SPECIES AND GRADE (BASE DESIGN VALUES)

BOLT HEADS AND NUTS BEARING AGAINST WOOD TO BE PROVIDED WITH 3"X3"X.229" PLATE WASHERS. WOOD BEARING ON OR INSTALLED WITHIN 1" OF MASONRY OR CONCRETE TO BE TREATED WITH AN APPROVED PRESERVATIVE. SOLID BLOCKING OF NOT LESS THAN 2 X THICKNESS SHALL BE PROVIDED AT ENDS AND AT ALL SUPPORT OF JOISTS AND RAFTERS. BETWEEN SUPPORTS PROVIDED AT ENDS AND AT ALL SUPPORT OF JOISTS AND RAFTERS, JOISTS, 10'-0" FOR ROOF JOISTS. TYPICAL SILL BOLTS TO BE 5/8" DIAMETER AT 6'-O" O.C. MINIMUM 7" EMBED. ALL METAL FRAMING ANCHORS AND HANGERS SHOWN ON DRAWINGS SHALL BE STRONG TIE CONNECTORS AS MANUFACTURED BY SIMPSON COMPANY.

PLYWOOD

PLYWOOD WALL AND ROOF SHEATHING SHALL BE 3/4" CDX, UNLESS OTHERWISE SPECIFIED. PLYWOOD FLOOR SHEATHING SHALL BE 3/4" CDX T&G. UNLESS OTHERWISE SPECIFIED. STAGGER END LAPS AT ROOF AND FLOOR SHEATHING. OSB SHEATHING PRODUCTS OF EQUIVALENT SPAN RATINGS SHALL BE ALLOWED.

WOOD TRUSSES

ALL ROOF TRUSSES SHALL BE FRAMED AND TIED INTO THE FRAME WORK AND SUPPORTING WALLS SO AS TO FROM AN INTEGRAL PART OF THE WHOLE BUILDING. ROOF TRUSSES SHALL HAVE JOINTS WELL FITTED AND SHALL HAVE ALL TENSION MEMBERS WELL TIGHTENED BEFORE ANY LOAD IS PLACED UPON THE TRUSS. DIAGONAL AND SWAY BRACING SHALL BE USED TO BRACEALL TRUSSES.

SEE SHEET-SI FOR DESIGN CRITERIA

INSULATION AND MOISTURE PROTECTION

GENERAL

INSULATION BAFFLES TO MAINTAIN 1" ABOVE BATT INSULATION BAFFLES TO EXTEND 6" ABOVE BATT INSULATION BAFFLES TO EXTEND 12" ABOVE LOOSE FILL INSULATION INSULATE BEHIND TUBS/SHOWERS, PARTITIONS AND CORNERS FACE STAPLE BATTS FRICTION FIT FACED BATTS USE 4 MIL POLY VAPOR RETARDER AT WALLS. * R-10 RIGID FOAM INSULATION ON 4X EVADERS

INFILTRATION CONTROL

AT EXTERIOR WALLS.

1. EXTERIOR JOINTS AROUND WINDOWS AND DOOR FRAMES, OPENINGS BETWEEN WALLS AND FOUNDATIONS, BETWEEN WALLS AND ROOF AND BETWEEN WALL PANELS, OPENINGS AT PENETRATIONS OF UTILITY SERVICES THROUGH WALLS, FLOOR AND ROOFS, AND ALL OTHER SUCH OPENINGS IN THE BUILDING ENVELOPE, INCLUDING ACCESS PANELS INTO UNHEATED SPACES, SHALL BE SEALED, CAULKED, CASKETED OR WEATHER-STRIPPED TO LIMIT AIR LEAKAGE. ALL OPENINGS SHALL BE FLASHED. APPROVED CORROSION-RESISTIVE FLASHING SHALL BE PROVIDED IN THE EXTERIOR WALL ENVELOPE IN SUCH A MANNER AS TO PREVENT ENTRY OF WATER INTO THE WALL CAVITY OR PENETRATION OF WATER TO THE BUILDING STRUCTURAL FRAMING COMPONENTS. THE FLASHING SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH AND SHALL BE INSTALLED TO PREVENT WATER FROM REENTERING THE EXTERIOR WALL ENVELOPE. APPROVED

CORROSION-RESISTANT FLASHING SHALL BE INSTALLED AT ALL OF THE FOLLOWING LOCATIONS: AT TOP OF ALL EXTERIOR WINDOW AND DOOR OPENINGS IN SUCH A MANNER AS TO BE LEAKPROOF, EXCEPT THAT SELF-FLASHING WINDOWS HAVING A CONTINUOUS LAP OF NOT LESS THAN 1-1/8" OVER THE SHEATHING MATERIAL AROUND THE PERIMETER OF THE OPENING, INCLUDING CORNERS, DO NOT REQUIRE ADDITIONAL FLASHING; JAMB

FLASHING MAY ALSO BE OMITTED WHEN SPECIFICALLY APPROVED BY THE BUILDING OFFICIALS.

2. AT THE INTERSECTION OF CHIMNEYS OR OTHER MASONRY CONSTRUCTION WITH FRAME OR WALLS, WITH PROJECTING LIPS ON BOTH SIDES UNDER STUCCO COPINGS. UNDER AND AT THE ENDS OF MASONRY, WOOD OR METAL

COPINGS AND SILLS. CONTINUOUSLY ABOVE ALL PROJECTING WOOD TRIM.

WHERE EXTERIOR PORCHES, DECKS OR STAIRS ATTACH TO A WALL OR FLOOR ASSEMBLY OF WOOD-FRAME CONSTRUCTION. AT WALL AND ROOF INTERSECTIONS.

AT BUILT-IN GUTTERS.

- ALL EXTERIOR DOORS, OTHER THAN FIRE-RATED DOORS, SHALL BE DESIGNED TO LIMIT AIR LEAKAGE AROUND THEIR PERIMETER WHEN IN A CLOSED POSITION. DOORS BETWEEN RESIDENCE AND GARAGE ARE NOT CONSIDERED FIRE-RATED AND MUST MEET THE ABOVE REQUIREMENT.

- ALL EXTERIOR WINDOWS SHALL BE DESIGNED TO ADMIT INFILTRATION INTO OR FROM THE BUILDING ENVELOPE.

- RECESSED LIGHTING FIXTURES: WHEN INSTALLED IN THE BUILDING ENVELOPE, RECESSED LIGHTING FIXTURES SHALL BE TYPE IC RATED AND CERTIFIED TO HAVE NO MORE THAN 2.0 CFM AIR MOVEMENT FROM THE CONDITIONED SPACE TO THE CEILING CAVITY. THE LIGHTING FIXTURE SHALL BE TESTED AT 75 PASCAL'S OR 1.57 LBS/FT2 PRESSURE DIFFERENCE AND HAVE A LABEL ATTACHED, SHOWING COMPLIANCE WITH THIS TEST METHOD. RECESSED LIGHTING FIXTURES SHALL BE INSTALLED WITH A GASKET OR CAULK BETWEEN THE FIXTURE AND CEILING TO PREVENT AIR LEAKAGE.

VAPOR BARRIERS/ GROUND COVERS AN APPROVED VAPOR BARRIER SHALL BE PROPERLY INSTALLED IN ROOF DECKS, IN ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS, AND AT EXTERIOR WALLS, INSET STAPLED BATTS WITH A PERM RATING LESS THAN ONE MAY BE INSTALLED IF THE VAPOR BARRIER IS TO THE WARM SIDE, STAPLES ARE PLACED NOT MORE THAN 8 INCHES ON CENTER AND GAPS BETWEEN THE FACING AND THE FRAMING DO NOT EXCEED 1/16 INCH.

A GROUND COVER OF 6 MIL (0.006") BLACK POLYETHYLENE OR EQUIVALENT, SHALL BE LAID OVER THE GROUND IN ALL CRAWL SPACES. THE GROUND COVER SHALL BE OVERLAPPED ONE FOOT AT EACH JOINT AND SHALL EXTEND TO THE FOUNDATION WALL.

MINDOWS, DOORS, HVAC, & ELECT. EQUIP.

GLAZING MAXIMUM ALL CLIMATE ZONES: GLAZING "U" VALUE: VERTICAL (MAX): .28 OVERHEAD (MAX): .50 DOOR "U" VALUE (MAX): .20 (DOORS W/ MORE THAN 50 CONSIDERED A WINDOW) HVAC PERFORMANCE: "MED" OR AFUE = .97 RECESSED LIGHT FIXTURES: IC RATED

DOORS, WINDOWS AND SKYLIGHTS

GENERAL DOORS TO THE EXTERIOR SHALL HAVE MAX. 3" STEP TO MIN. 36" DEEP LANDING.

BEDROOM EMERGENCY EGRESS WINDOWS MINIMUM NET CLEAR OPENING OF 5.7 SQ. FT. MIN. NET CLEAR OPEN ABLE WIDTH OF 20" AND MINIMUM NET CLEAR OPENING HEIGHT OF 24", MAXIMUM FINISHED SILL HEIGHT OF 44" ABOVE FLOOR.

FACTORY BUILT WINDOWS TO BE CONSTRUCTED TO PERMIT MAXIMUM INFILTRATION OF 0.5 CFM PER LINEAL FOOT OF OPERABLE SASH PERIMETER AS TESTED BY ASTM STANDARDS SITE BUILT AND MILL WORK SHOP BUILT WOODEN SASH ARE EXEMPT FROM INFILTRATION CRITERIA ABOVE, BUT MUST BE MADE TIGHTLY FITTING AND WEATHER STRIPPED OR CAULKED SLIDING GLASS DOORS TO PERMIT MAXIMUM INFILTRATION OF 0.5 CFM INFILTRATION PER SQUARE FOOT OF DOOR AREA.

SAFETY GLAZING SHALL BE LOCATED WITHIN

1. INGRESS AND EGRESS DOORS

2. SLIDING GLASS DOORS, SWINGING GLASS DOORS

3. SHOWER AND BATHTUB ENCLOSURE'S 4.GLAZING W/ THE EXPOSED EDGE WITHIN A 24" ARC OF EITHER VERTICAL EDGE OF A DOOR IN THE CLOSED PORTION & BOTTOM EDGE IS LESS THAN 60" ABOVE THE WALKING SURFACE GLAZING GREATER THAN 9 S.P. LESS THAN 13"ABOVE FINISHED

FLOOR. WINDOW SILLS: 612.2, 24" MINIMUM SILL HEIGHT EXCEPTIONS ALLOW FOR OPENING LIMITING DEVICE FOR 4" DIAMETER SPHERE AND WINDOW FALL PREVENTION DEVICE THAT COMPLIES WITH 612.3.

STRUCTURAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CONTRACT DRAWINGS.

2. DURING THE CONSTRUCTION PERIOD THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING.

3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION PROCEDURES INCLUDING LAGGING, SHORING AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF ENGINEER

5. ALL DETAILS DESIGNATED AS STANDARD OR TYPICAL SHALL OCCUR IN ADDITION TO ANY OTHER SPECIFIC DETAIL CALLED OUT 6. COORDINATE WITH MECHANICAL, PLUMBING, AND ELECTRICAL REQUIREMENTS FOR SIZE AND LOCATION OF ALL OPENINGS REQUIRED FOR DUCTS, PIPES, AND PIPE SLEEVES, ELECTRICAL CONDUITS, AND OTHER ITEMS TO BE EMBEDDED IN CONCRETE OR OTHERWISE INCORPORATED IN STRUCTURAL WORK. 7. PROVIDE OPENINGS AND SUPPORTS, AS REQUIRED PER STANDARD DETAILS FOR HEATERS, MECHANICAL EQUIPMENT, VENTS, DUCTS, PIPING, ETC. ALL SUSPENDED MECHANICAL EQUIPMENT SHALL BE SWAY OR LATERALLY BRACED.



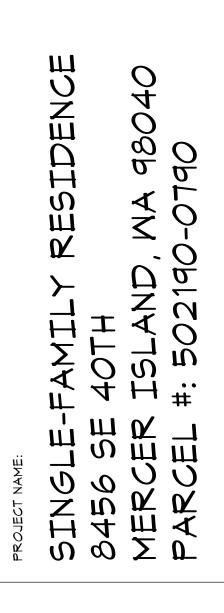


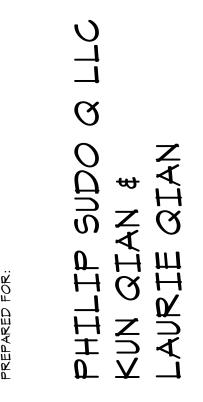
UNPROTECTED WOOD FRAME (EXAMPLES OF CONSTRUCTION ARE SINGLE FAMILY HOMES AND GARAGES. THEY OFTEN HAVE EXPOSED WOOD SO THERE IS NO FIRE RESISTANCE.)







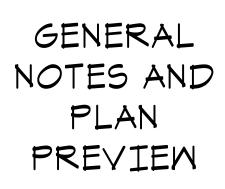




SUBMITTAL/REVISION: DATE: SUBMITTED REVISED

-/-/2022 -/-/2022

DESIGN BY: DRAFTED BY: SHEET TITLE: PAVEL MELNIK ANNA KONYAKINA



PROJECT NUMBER:

2125

SHEET NUMBER:

A1.'

	Prescriptive	2018 Washington State E Energy Code Compliance le Family – New & Additi	for All Cli	imate Zones in	Washington
	dwelli	apply to all IRC building ty ngs and multiple single-f		ellings (townh	ouses).
	Project Informa			Contact	Information
	Instructions: This single-family incorporate the minimum valu additional credits are checked	les listed. Based on the si	ze of the	structure, the	
	Provide all information from the Fenestration Requirements by	e following tables as buildi	ng permit	drawings: Tabl	
VERTICAL FENESTRATION	Authorized Representative			D	ote
U=0.28		All Climate Zones (R-Value ^a	and the second	2.1.1)	U-Factor *
	Fenestration U-Factor ^b Skylight U-Factor ^b	n/a n/a			0.30
	Glazed Fenestration SHGC ^{b,e} Ceiling ^e	n/a 49			n/a 0.026
	Wood Frame Wall ^{g,h}	21 int 30			0.056
FLOOR R-38	Below Grade Wall ^{c,h} Slab ^{d,f} R-Value & Depth	10/15/21 int 10, 2 ft	+ TB		0.029 0.042 n/a
	R-values are minimums. U-f. a than the label or design thic Table A101.4 shall not be less b The fenestration U-factor co "10/15/21 +5TB" means R-1 the interior of the wall, or R c the interior of the basement means R-5 thermal break be d R-10 continuous insulation i e For single rafter- or joist-val extends over the top plate of	kness of the insulation, the ss than the <i>R</i> -value specified olumn excludes skylights. 0 continuous insulation on t -21 cavity insulation plus a t t wall. "10/15/21 +5TB" shal t wall plus R-5 continuous in etween floor slab and basem s required under heated slal ulted ceilings, the insulation of the exterior wall.	compresse l in the tab the exterio hermal bre l be permi sulation or nent wall. b on grade may be rea	d R-value of the ele. r of the wall, or eak between the tted to be met v n the interior or floors. See Sect duced to R-38 if	R-15 continuous slab and the bas with R-13 cavity in exterior of the w ion R402.2.9.1. the full insulatio
	R-7.5 continuous insulation f slab insulation when applied meet the requirements for t For log structures developed climate zone 5 of ICC 400. Int. (intermediate framing) of h framing 16 inches on center	t to existing slabs complying thermal barriers protecting f d in compliance with Standa denotes framing and insulati	with Secti oam plasti rd ICC 400, ion as desc	on R503.1.1. If f ics. , log walls shall i ribed in Section	oam plastic is us meet the require A103.2.2 includi
	insulation.	2018 Washington State Er	nergy Code	– Residential	
Б П	2. Medium Dwelling Unit: All dwelling units that a 3. Large Dwelling Unit: 7 (re not included in #1 or #3 g 5,000 sf of conditioned flo square feet: 1.5 credits I meet 1-3 above	oor area		
$\overline{\mathbf{O}}$	Heating	Summary of Ta	1	- select ONE	
	Options 1 Combustion heating r		10 No. 1	ing option	User Not
	2 Heat pump ^c		1.0	•	
$\overline{\mathbf{N}}$		at only - furnace or zonal ic resistance per option 3.4	-1.0	0	
<u>V</u>	5 All other heating syste		100000000000000000000000000000000000000	- select ONE	
	Options Energy Credit	t Option Descriptions	ca	tegory d	
	1.1 Efficient Building Enve 1.2 Efficient Building Enve		0.5	0	
	1.3 Efficient Building Enve 1.4 Efficient Building Enve	e de la companya de l	0.5	•	
	1.5 Efficient Building Enve 1.6 Efficient Building Enve	elope	2.0	0	
U	1.7 Efficient Building Enve	elope C	0.5	0	
$\tilde{\mathbf{N}}$		nd Efficient Ventilation nd Efficient Ventilation	0.5		
		nd Efficient Ventilation	1.5 2.0		
Ш	3.1 ^a High Efficiency HVAC		1.0		
7	3.2 High Efficiency HVAC 3.3 ^a High Efficiency HVAC		1.0 1.5		
	3.4 High Efficiency HVAC 3.5 High Efficiency HVAC		1.5		
	3.6 ^a High Efficiency HVAC		2.0		
	4.1 High Efficiency HVAC 4.2 High Efficiency HVAC	and the second	0.5		
		2018 Washington State Er e Energy Code Compliance ngle Family – New & Additio	for All Clin	nate Zones in W	
Ē	Energy Options Energy Credit Op	Summary of Table	Credits - s energy op	elect ONE ption from tegory d	User Notes
	5.1 ^d Efficient Water Heatin 5.2 Efficient Water Heatin	159	0.5		
\mathbf{M}	5.3 Efficient Water Heatin	ng	1.0		
<u>н</u> н	5.4 Efficient Water Heatin 5.5 Efficient Water Heatin	ng	1.5 2.0		
\mathbf{D}	5.6 Efficient Water Heatin 6.1 ^e Renewable Electric En		2.5		
in	7.1 Appliance Package		0.5	60 000	late Total
	Service Aller Street Street West Street Stre	Total Credits rce sized at a maximum of 0.5 1	W/sf (equiv		
	 b. Equipment listed in Table C c. Equipment listed in Table C d. You cannot select more th with options 5.2 through 5 e. 1.0 credit for each 1,200 kV 	403.3.2(1) or C403.3.2(2) an one option from any categ	ory EXCEPT	ally, up to 3 cred	

See the complete Table R406.2 for all requirements and option descriptions.

f. Use the single radiobutton in the upper right of the second column to deselect radiobuttons in that group.

	Option	Table 406.3 – Energy Credits (Single Family) Description	Credits: SF		Option	Table 406.3 – Energy Credits (Single Family) Description ENT WATER HEATING OPTIONS
	Only one	INT BUILDING ENVELOPE OPTIONS option from Items 1.1 through 1.7 may be selected in this category.	1 4			option from Items 5.2 through 5.6 may be selected in this category. Item 5.1 may be combined with any A drain water heat recovery unit(s) shall be installed, which captures waste water heat from
		ce with the conductive UA targets is demonstrated using Section R402.1.4, Total UA alternative d UA/Target UA)] > the required %UA reduction. Prescriptive compliance is based on Table R402.1.1 with the following modifications:	, where [1-			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
	1.1	Vertical fenestration U = 0.24 Prescriptive compliance is based on Table R402.1.1 with the following modifications:	0.5		5.1	accordance with CSA B55.1 or IAPMO IGC 346-2017 and be so labeled. To qualify to claim this credit, the building permit drawings shall include a plumbing diagram
	1.2	Vertical fenestration U = 0.20 Prescriptive compliance is based on Table R402.1.1 with the following modifications:	1.0			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
	1.3	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 <i>or</i>	0.5		5.2	with the standard. Water heating system shall include one of the following: Energy Star rated gas or propane water heater with a minimum UEF of 0.80. 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:				Water heating system shall include one of the following: Energy Star rated gas or propane water heater with a minimum UEF of 0.91 <i>or</i> 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
	1.4	Vertical fenestration U = 0.25 Wall R-21 plus R-4 ci 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	1.0		5.3	Certification Corporation (SRCC) Annual Performance of OG-300 Certified Solar Water Heating Systems or Water heater heated by ground source heat pump meeting requirements of Option 3.3. To qualify to claim this credit, the building permit drawings shall specify the option being
		under entire slab or Compliance based on Section R402.1.4: Reduce the Total conductive UA by 15% Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.22		-		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. 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
	1.5	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 <i>or</i>	2.0		5.4	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. ⁵
		Compliance based on Section R402.1.4: Reduce the Total conductive UA by 30% Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.18			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
	1.6	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	3.0			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. ⁵ 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
		Slab on grade R-20 perimeter and under entire slab Below grade slab R-20 perimeter and under entire slab or Compliance based on Section R402.1.4: Reduce the Total conductive UA by 40%. Advanced framing and raised heel trusses or rafters			5.6	configuration with the air-to-refrigerant 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
	1.7	Vertical Glazing U-0.28 R-49 Advanced (U-0.020) as listed in Section A102.2.1, <i>Ceilings below a vented attic and</i> R-49 vaulted ceilings with full height of uncompressed insulation extending over the wall	0.5			For R-2 Occupancy, electric heat pump water heater(s), meeting the standards for Tier III of NEEA's advanced water heating specification and utilizing a split system configuration with the air-to-refrigerant heat exchanger located outdoors, shall supply domestic hot water to all units. If one water heater is serving more than one dwelling unit, all hot water supply and
	Option	top plate at the eaves. Table 406.3 – Energy Credits (Single Family) Description	Credits: SF			recirculation piping shall be insulated with R-8 minimum pipe insulation. ⁵ Ilify to claim this credit, the building permit drawings shall specify the option being selected and so the water heater equipment type and the minimum equipment efficiency.
		AKAGE CONTROL AND EFFICIENT VENTILATION OPTIONS option from Items 2.1 through 2.4 may be selected in this category.		L.		
		Compliance based on R402.4.1.2: Reduce the tested air leakage to 3.0 air changes per hour maximum at 50 Pascals or			Option	Table 406.3 – Energy Credits (Single Family) Description
		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			6. RENEW	For each 1200 kWh of electrical generation per housing unit provided annually by on-site
		All whole house ventilation requirements as determined by Section M1507.3 of the <i>International Residential Code</i> or Section 403.8 of the <i>International Mechanical Code</i> shall				wind or solar equipment a 1.0 credit shall be allowed, up to 3 credits. Generation shall be calculated as follows:
	2.1	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	0.5			For solar electric systems, the design shall be demonstrated to meet this requirement using the National Renewable Energy Laboratory calculator PVWATTs or approved alternate by
		allowed, provided that they are controlled to operate at low speed in ventilation only mode.			6.1	the code official. Documentation noting solar access shall be included on the plans. For wind generation
		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.			0.1	projects designs shall document annual power generation based on the following factors: the wind turbine power curve; average annual wind speed at the site; frequency distribution of the wind speed at the site and height of the tower.
		Compliance based on Section R402.4.1.2: Reduce the tested air leakage to 2.0 air changes per hour maximum at 50 Pascals or				To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall show the photovoltaic or wind turbine equipment type, provide
	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 <i>and</i> All whole house ventilation requirements as determined by Section M1507.3 of the	1.0	5.		documentation of solar and wind access, and include a calculation of the minimum annual energy power production.
		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			7. APPLIA	ANCE PACKAGE OPTION All of the following appliances shall be new and installed in the dwelling unit and shall meet
	-	efficiency of 0.65 . ¹ Compliance based on Section R402.4.1.2:				the following standards: Dishwasher – Energy Star rated Refrigerator (if provided) – Energy Star rated
		Reduce the tested air leakage to 1.5 air changes per hour maximum at 50 Pascals <i>or</i> For R-2 Occupancies, optional compliance based on Section R402.4.1.2: Reduce the tested			7.1	Washing machine – Energy Star rated Dryer – Energy Star rated, ventless dryer with minimum CEF rating of 5.2
	2.3	air leakage to 0.25 cfm/sf maximum at 50 Pascals <i>and</i> All whole house ventilation requirements as determined by Section M1507.3 of the	1.5			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
		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 of 2.75 1				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
		efficiency of 0.75 . ¹ Compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.6 air changes per hour maximum at 50 Pascals or				dwelling unit.
		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 and				
	2.4	All whole house ventilation requirements as determined by Section M1507.3 of the <i>International Residential Code</i> or Section 403.8 of the <i>International Mechanical Code</i> shall be met with a heat recovery ventilation system with minimum sensible heat recovery	2.0			
	-	efficiency of 0.80. Duct installation shall comply with Section R403.3.7.				
		ify to claim this credit, the building permit drawings shall specify the option being selected and	shall			
	specify	ify 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 heat recovery ventilation system. Table 406.3 – Energy Credits (Single Family)				
	specify Option 3. HIGH	ify 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 heat recovery ventilation system. Table 406.3 – Energy Credits (Single Family) Description EFFICIENCY HVAC EQUIPMENT OPTIONS	shall Credits: SF			
	specify Option 3. HIGH	ify 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 heat recovery ventilation system. Table 406.3 – Energy Credits (Single Family) Description EFFICIENCY HVAC EQUIPMENT OPTIONS e option from Items 3.1 through 3.6 may be selected in this category. Energy Star rated (U.S. North) Gas or propane furnace with minimum AFUE of 95% or				
	specify Option 3. HIGH Only one	ify 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 heat recovery ventilation system. Table 406.3 – Energy Credits (Single Family) Description EFFICIENCY HVAC EQUIPMENT OPTIONS e option from Items 3.1 through 3.6 may be selected in this category. Energy Star rated (U.S. North) Gas or propane furnace with minimum AFUE of 95% or Energy Star rated (U.S. North) Gas or propane boiler with minimum AFUE of 90%. ²	Credits: SF			
	Specify Option 3. HIGH Only one 3.1 ²	ify 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 heat recovery ventilation system. Table 406.3 – Energy Credits (Single Family) Description EFFICIENCY HVAC EQUIPMENT OPTIONS e option from Items 3.1 through 3.6 may be selected in this category. Energy Star rated (U.S. North) Gas or propane furnace with minimum AFUE of 95% or Energy Star rated (U.S. North) Gas or propane boiler with minimum AFUE of 90%. ² Air-source centrally ducted heat pump with minimum HSPF of 9.5. ³ Closed-loop ground source heat pump; with a minimum COP of 3.3 or Open loop water source heat pump with a maximum pumping hydraulic head of 150 feet and minimum COP of 3.6. ³	Credits: SF			
[specify Option 3. HIGH Only one 3.1 ² 3.2 ² 3.3 ² 3.4	ify 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 heat recovery ventilation system. Table 406.3 – Energy Credits (Single Family) Description EFFICIENCY HVAC EQUIPMENT OPTIONS e option from Items 3.1 through 3.6 may be selected in this category. Energy Star rated (U.S. North) Gas or propane furnace with minimum AFUE of 95% or Energy Star rated (U.S. North) Gas or propane boiler with minimum AFUE of 90%. ² Air-source centrally ducted heat pump with minimum HSPF of 9.5. ³ Closed-loop ground source heat pump; with a minimum COP of 3.3 or Open loop water source heat pump with a maximum pumping hydraulic head of 150 feet and minimum COP of 3.6. ³ Ductless mini-split heat pump system, zonal control: In homes where the primary space heating system is zonal electric heating, a ductless mini-split heat pump system with a minimum HSPF of 10.0 shall be installed and provide heating to the largest zone of the housing unit. ⁴	Credits: SF 1.0 1.0 1.5 1.5			
	specify Option 3. HIGH Only one 3.1 ² 3.2 ² 3.3 ²	ify 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 heat recovery ventilation system. Table 406.3 – Energy Credits (Single Family) Description EFFICIENCY HVAC EQUIPMENT OPTIONS e option from Items 3.1 through 3.6 may be selected in this category. Energy Star rated (U.S. North) Gas or propane furnace with minimum AFUE of 95% or Energy Star rated (U.S. North) Gas or propane boiler with minimum AFUE of 90%. ² Air-source centrally ducted heat pump with minimum HSPF of 9.5. ³ Closed-loop ground source heat pump; with a minimum COP of 3.3 or Open loop water source heat pump with a maximum pumping hydraulic head of 150 feet and minimum COP of 3.6. ³ Ductless mini-split heat pump system, zonal control: In homes where the primary space heating system is zonal electric heating, a ductless mini-split heat pump system with a minimum HSPF of 10.0 shall be installed and provide heating to the largest zone of the housing unit. ⁴ Air-source, centrally ducted heat pump with minimum HSPF of 11.0. ⁴ Ductless split system heat pumps with no electric resistance heating in the primary living	Credits: SF 1.0 1.0 1.5			
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DescriptionCredits: SFreselected in this category, Item 5.1 may be combined with any option. all be installed, which captures waste water heat from inimum efficiency of 40% if installed for equal flow or a if or unequal flow. Such units shall be rated in IGC 346-2017 and be so labeled. ding permit drawings shall include a plumbing diagram covery units and the plumbing layout needed to install. the of the following: er heater with a minimum UEF of 0.80. 5 er of the following: er heater with a minimum UEF of 0.80. 5 er of the following: er heater with a minimum UEF of 0.80. 5 er of the following: er heater with a minimum UEF of 0.80. 5 minimum standard water heater. Solar water heating of 85 therms or 2000 kWh based on the Solar Rating and lal Performance of OG-300 Certified Solar Water Heating eater equipment type and the minimum equipment systems, the calculation of minimum energy savings. ne of the following: ting the standards for Tier 1 of fication, shall supply domestic hot water to all units. If no ned welling unit, all hot water supply and with R-8 minimum pipe insulation 3 ne of the following: the ather(s), meeting the standards for Tier III of fication, shall supply domestic hot water to all units. If no ned welling unit, all hot water supply and with R-8 minimum pipe insulation. 3 the of the NEEA standard Advanced Water Heating p water heater(s), meeting the standards for Tier III of fication and utilizing a split system rant heat exchanger located outdoors. Equipment shall units, of the NEEA standard Advanced Water Heating or of the NEEA standard Advanced Water Heating or of the NEEA standard Advanced Water Heating p water heater(s), meeting the standards for Tier III of fication and utilizing a split system onfiguration with located outdoors, shall supply domestic hot water to all units. Standard Adva		
eselected in this category, Item 5.1 may be combined with any option. all be installed, which category tems waste water heat from inimum efficiency of 40% if installed for equal flow or a if or unequal flow. Such units shall be rated in IGC 346-2017 and be so labeled. ding permit drawings shall include a plumbing diagram covery units and the plumbing layout needed to install it, the of the following: er heater with a minimum UEF of 0.80. ⁵ the of the following: er heater with a minimum UEF of 0.91 or minimum standard water heater. Solar water heating of 85 therms or 2000 kWh based on the Solar Rating and all Performance of OG-300 Certified Solar Water Heating of 85 therms or 2000 kWh based on the Solar Rating and all Performance of OG-300 Certified Solar Water Heating of 85 therms or 2000 kWh based on the Solar Rating and all Performance of OG-300 Certified Solar Water Heating of 85 therms or 2000 kWh based on the Solar Rating and all Performance of OG-300 Certified Solar Water Heating of 85 therms or 2000 kWh based on the Solar Rating and all Performance of OG-300 Certified Solar Water Heating of 85 therms or 2000 kWh based on the Solar Rating and all Performance of OG-300 Certified Solar Water Heating on eff the following: ting the standards for Tier I of NEEA's advanced water p water heater(s), meeting the standards for Tier II of fication, shall supply domestic hot water to all units. If no end welling unit, all hot water supply and with R-8 minimum pipe insulation. ⁵ re of the following: th a minimum UEF of 2.9 and utilizing a split system rat heat exchanger located outdoors. Equipment shall hore than one dwelling unit, all hot water supply and with R-8 minimum pipe insulation. ⁵ ref the following: th a minimum pipe insulation. ⁵ ref the following shall specify the option being selected and shall th	3 – Energy Credits (Single Family)	Credite: SE
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FROLET INGLE-FAMILY RESIDENCE B456 SE 40TH MERCER ISLAND, NA 98040 PARCEL #: 502190-0790

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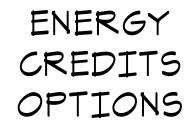
SUBMITTAL/REVISION: DATE: SUBMITTED REVISED

-/-/2022 -/-/2022

DESIGN BY: DRAFTED BY:

PAVEL MELNIK ANNA KONYAKINA

SHEET TITLE:

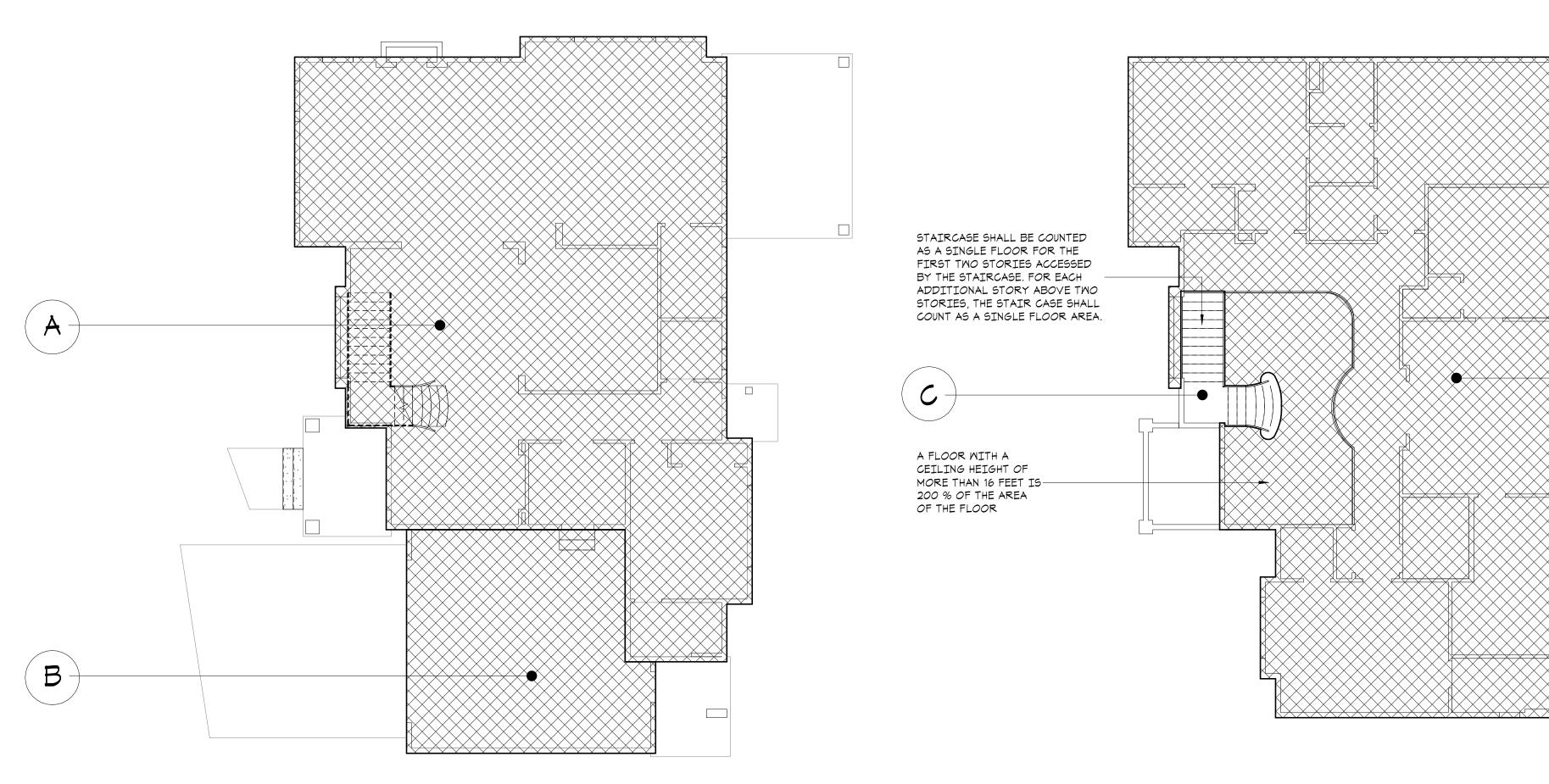


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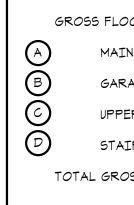
21257

SHEET NUMBER:

A1.2



MAIN FLOOR PLAN - GFR SCALE: 1/4" = 1'-0"





OOR AREA:		
IN FLOOR:	2 015	S.F.
RAGE:	500	S.F
PER FLOOR:	2 255	S.F.
AIRCASE:	EXCLUDED	
OSS FLOOR AREA (GFA):	4 770	S.F.

<u>GROSS FLOOR AREA:</u>	
LOT AREA:	11 930 s.f.
ALLOWED GFA *:	40%
GFA M/ALLOWANCE (40%):	4 772 s.f.
TOTAL PROPOSED GFA:	4,770 S.F. / 39.98%

* ZONING R-8.4: 5,000 SQUARE FEET OR 40% OF THE LOT AREA, WHICHEVER IS LESS.

** IF AN ACCESSORY DWELLING UNIT IS PROPOSED, THE 40% ALLOWED GFA MAY BE INCREASED BY THE LESSER OF 5 PERCENTILE POINTS, OR THE FLOOR AREA OF THE ACCESSORY DWELLING UNIT. PROVIDED, THIS ALLOWANCE SHALL NOT RESULT IN A GFA OF MORE THAN 4,500 SQUARE FEET OR 45% OF THE LOT AREA, WHICHEVER IS LESS.

NOTE:

THE GFA INCLUDES THE FLOOR AREA OF THE MAIN BUILDING, ACCESSORY BUILDINGS, GARAGES, ATTACHED ROOFED DECKS ON THE SECOND OR THIRD STORY OF A SINGLE FAMILY HOME, STAIR CASES, ETC. THE GFA DOES NOT INCLUDE SECOND- OR THIRD UNCOVERED DECKS OR UNCOVERED ROOFTOP DECKS.



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SUBMITTAL/REVISION: DATE: SUBMITTED REVISED

-/-/2022 -/-/2022

PAVEL MELNIK

DESIGN BY: DRAFTED BY: SHEET TITLE:

ANNA KONYAKINA

GROSS FLOOR AREA (GFA)

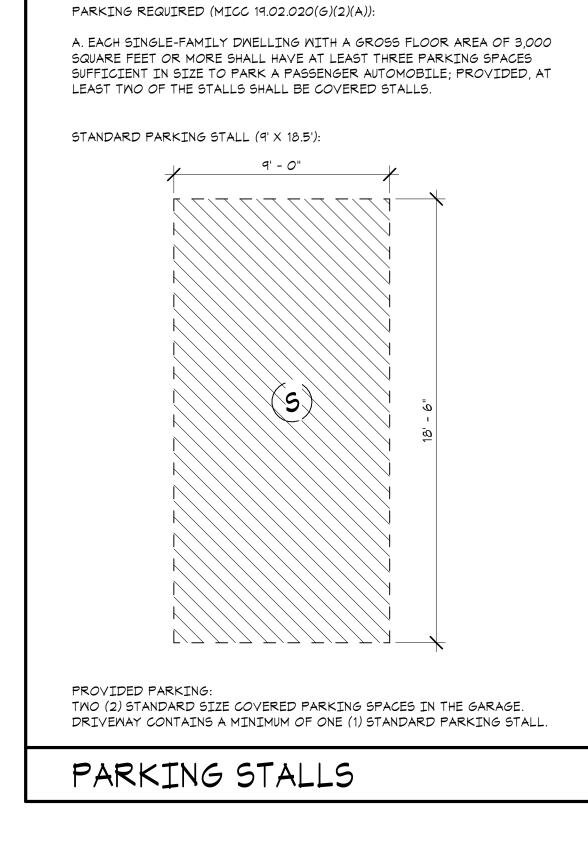
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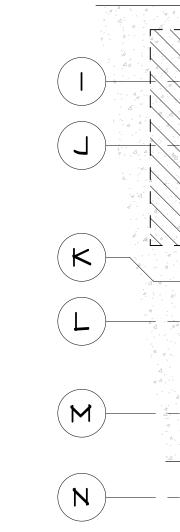
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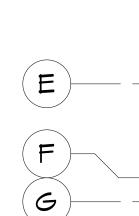
A2.1

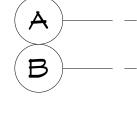
MAIN FLOOR - PARKING SCALE: 1/4" = 1'-0"

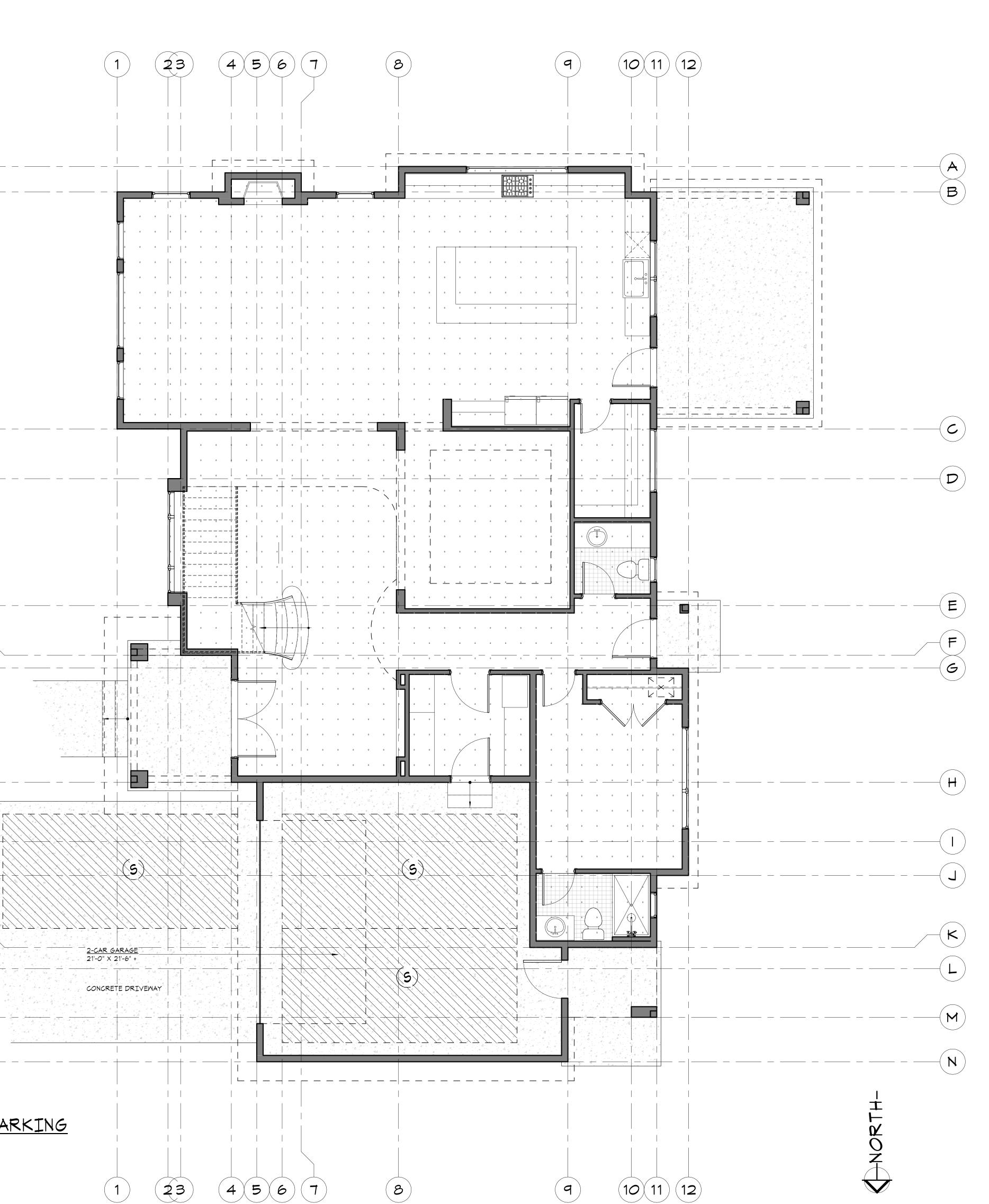


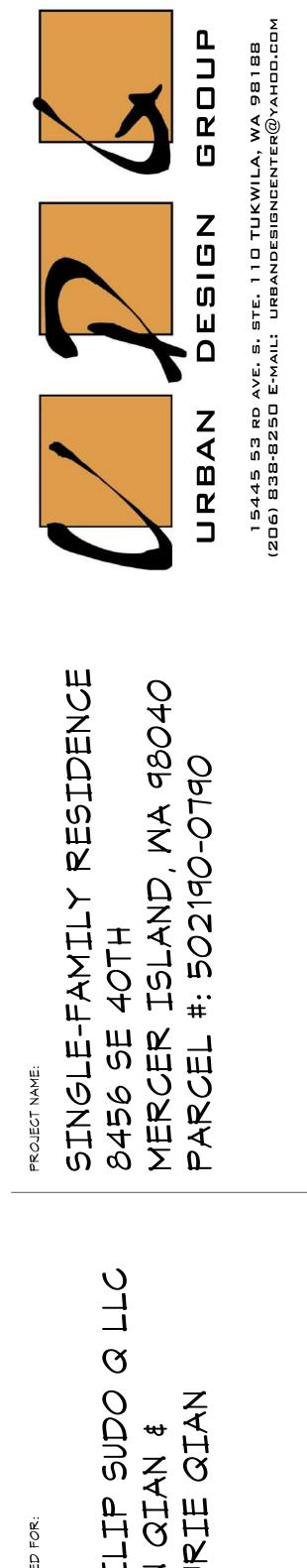


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> -/-/2022 -/-/2022

PAVEL MELNIK

ANNA KONYAKINA

SUBMITTAL/REVISION: DATE:

SUBMITTED REVISED

DESIGN BY:

DRAFTED BY:

SHEET TITLE:

PROJECT NUMBER:

21257

A2.2



17. ALL INTERIOR FINISHES TO MEET MINIMUM FLAME SPREAD INDEX AND SMOKE DEVELOPMENT INDEX AS REQUIRED BY 2015 IRC. 18. UNDER FLOOR CLEANOUT NOT MORE THAN 20' FROM ACCESS DOOR WITH AN UNOBSTRUCTED 30"

WIDE X 18" HIGH PATH PATHWAY. CLEANOUTS ARE ACCESSIBLE. 12" CLEARANCE REQUIRED AT LINES LESS THAN OR EQUAL TO 2", 18" CLEARANCE AT LINES GREATER THAN 2". (UPC 707.9) 19. GLAZING IN ALL FIXED AND OPERABLE PANELS OF SWINGING, SLIFDING AND BIFOLD DOORS SHALL BE CONSIDERED A HAZARDOUS LOCATION, SAFETY GLAZING.

GARAGE NOTES:

GARAGES SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 5/8" TYPE X GWB APPLIED TO THE GARAGE SIDE. WHERE THE SEPARATION IS A FLOOR-CEILING ASSEMBLY, THE STRUCTURE SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED BY NOT LESS THAN 5/8" TYPE X GYPSUM BOARD OR EQUIVALENT.

2. OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL BE EQUIPPED WITH SOLID WOOD DOORS NOT LESS THAN 1 3/8" IN THICKNESS, SOLID OR HONEYCOMB CORE STEEL DOORS NOT LESS THAN 1 3/8" THICK, OR 20-MINUTE FIRE-RATED DOORS.

DUCTS IN THE GARAGE AND DUCTS PENETRATING THE WALLS OR CEILINGS SEPARATING THE DWELLING FROM THE GARAGE SHALL BE CONSTRUCTED OF A MINIMUM NO. 26 GAGE SHEET STEEL OR OTHER APPROVED MATERIALS AND SHALL HAVE NO OPENINGS INTO THE GARAGE. IRC R309.1.1

IN SIESMIC ZONES 3 & 4, WATER HEATERS SHALL BE ANCHORED TO RESIST HORZ. DISPLACEMENT DUE TO EARTHQUAKE MOTION. STRAPPING SHALL BE @ POINTS WITHIN THE UPPER ONE THIRD AND LOWER ONE THIRD PER UPC SEC. 510.5

PROVIDE OUTDOOR COMBUSTION AIR FOR WATER HEATER GARAGE FLOOR SURFACES SHALL BE OF APPROVED NONCOMBUSTIBLE MATERIAL AND THE AREA USED FOR THE PARKING OF AUTOMOBILES OR OTHER VEHICLES SHALL BE SLOPED TO FACILITATE THE MOVEMENT OF LIQUIDS TO A DRAIN OR TOWARD THE MAIN VEHICLE ENTRY DOORWAY

AREA SUMMARY:		
MAIN FLOOR:	2 025	SF
UPPER FLOOR:	1 991	SF
LIVING/HEATED SPACE:	4 016	SF
GARAGE:	500	SF
FRONT PORCH:	92	SF
CONCRETE LANDING:	63	SF
COVERED PATIO:	210	SF

NOTE: REFER TO STRUCTURAL SHEETS FOR SHEAR WALL SCHEDULE AND ENGINEERING PLAN WHICH CONTAIN REFERENCES AND/OR INSTRUCTIONS PERTAINING TO EACH SHEAR WALL INDICATED IN THIS PLAN

NOTE: EACH DOOR TO BE UNDERCUT A MINIMUM OF 1/2-INCH TO ASSURE FREE FLOW OF FRESH AIR THROUGHOUT HABITABLE ROOMS

NOTE:

CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS OF PROJECT AND REPORT ANY OMISSIONS / DISCREPANCIES TO DESIGNER PRIOR TO COMMENCING WORK. DESIGNER SHALL NOT BE RESPONSIBLE FOR DISCREPANT CONDITIONS RESULTING FROM UNAUTHORIZED WORK PERFORMED BY THE CONTRACTOR.

NOTE: THE DOOR IN THE DWELLIN/GARAGE SEPARATION MUST BE EQUIPPED WITH A SELF-CLOSING OR AUTOMATED CLOSING DEVICE.

PER IRC 302.5.1

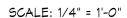
FOR SMOKE & CARBON MONOXIDE ALARMS NOTES SEE SHEET A5.

MAIN FLOOR PLAN

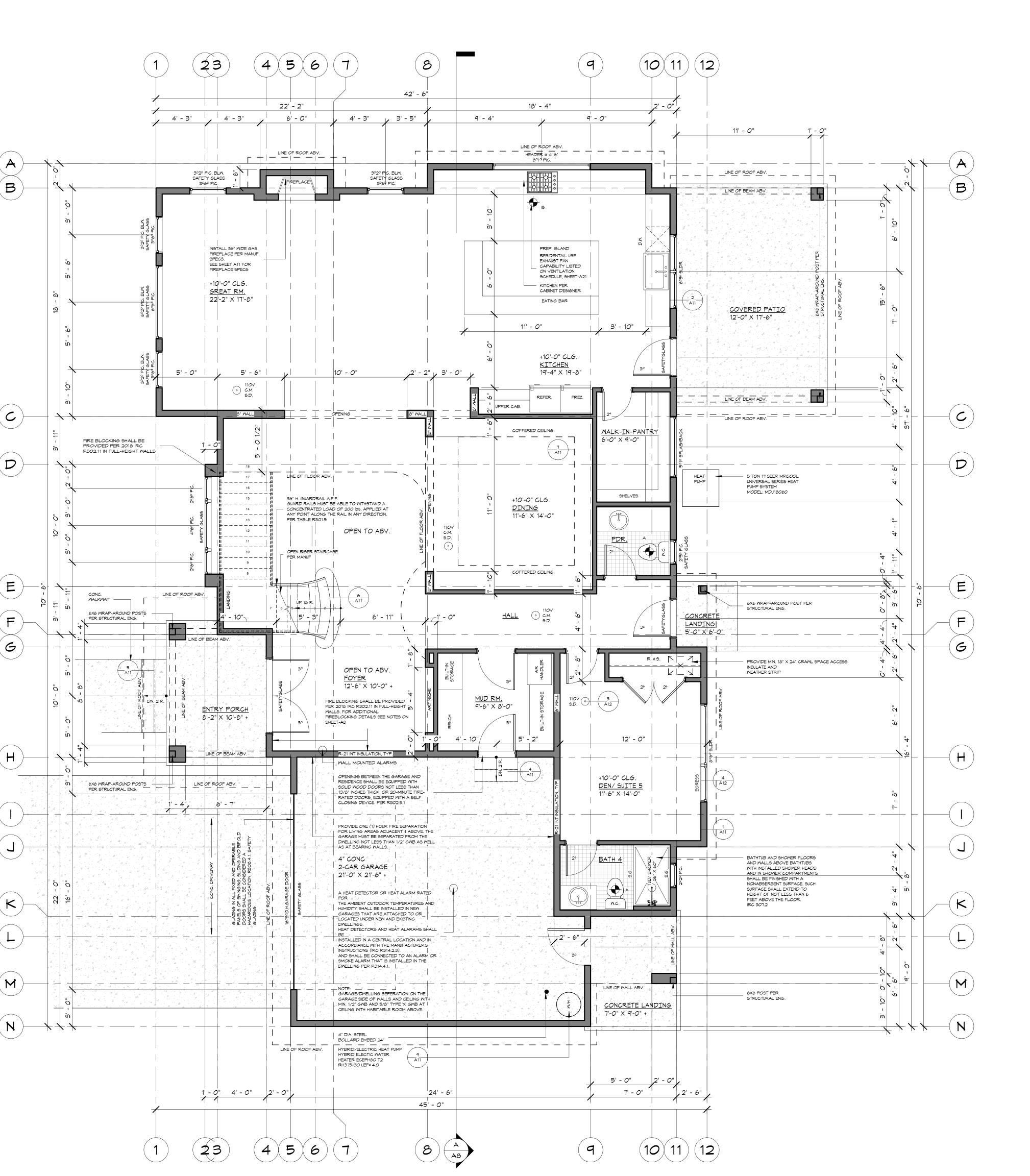
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-/-/2022 SUBMITTED REVISED -/-/2022 DESIGN BY: DRAFTED BY:

PAVEL MELNIK ANNA KONYAKINA

MAIN FLOOR PLAN

PROJECT NUMBER:



SHEET NUMBER:

SHEET TITLE:





16. DUCTS FOR KITCHEN RANGES SHALL BE OF METAL AND BE EQUIPPED W/ BACK-DRAFT DAMPERS PER CODE.

17. ALL INTERIOR FINISHES TO MEET MINIMUM FLAME SPREAD INDEX AND SMOKE DEVELOPMENT INDEX AS REQUIRED BY 2015 IRC.
18. UNDER FLOOR CLEANOUT NOT MORE THAN 20' FROM ACCESS DOOR WITH AN UNOBSTRUCTED 30" WIDE X 18" HIGH PATH PATHWAY. CLEANOUTS ARE ACCESSIBLE. 12" CLEARANCE REQUIRED AT LINES LESS THAN OR EQUAL TO 2", 18" CLEARANCE AT LINES GREATER THAN 2". (UPC 707.9)
19. GLAZING IN ALL FIXED AND OPERABLE PANELS OF SWINGING, SLIFDING AND BIFOLD DOORS SHALL BE CONSIDERED A HAZARDOUS LOCATION, SAFETY GLAZING.

AREA SUMMARY:			
MAIN FLOOR:	2 025	SF	
UPPER FLOOR:	1 991	SF	
LIVING/HEATED SPACE:	4 016	SF	
GARAGE:	500	SF	
FRONT PORCH:	92	SF	
CONCRETE LANDING:	63	SF	
COVERED PATIO:	210	SF	

NOTE: REFER TO STRUCTURAL SHEETS FOR SHEAR WALL SCHEDULE AND ENGINEERING PLAN WHICH CONTAIN REFERENCES AND/OR INSTRUCTIONS PERTAINING TO EACH SHEAR WALL INDICATED IN THIS PLAN

NOTE:

EACH DOOR TO BE UNDERCUT A MINIMUM OF 1/2-INCH TO ASSURE FREE FLOW OF FRESH AIR THROUGHOUT HABITABLE ROOMS

NOTE:

CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS OF PROJECT AND REPORT ANY OMISSIONS / DISCREPANCIES TO DESIGNER PRIOR TO COMMENCING WORK. DESIGNER SHALL NOT BE RESPONSIBLE FOR DISCREPANT CONDITIONS RESULTING FROM UNAUTHORIZED WORK PERFORMED BY THE CONTRACTOR.

NOTE: THE DOOR IN THE DWELLIN/GARAGE SEPARATION MUST BE EQUIPPED WITH A SELF-CLOSING OR AUTOMATED CLOSING DEVICE. PER IRC 302.5.1

FOR SMOKE & CARBON MONOXIDE ALARMS NOTES SEE SHEET A5.

NOTE: DUCT TO EXTERIOR. FOR INTERMITENT DISTRIBUTED

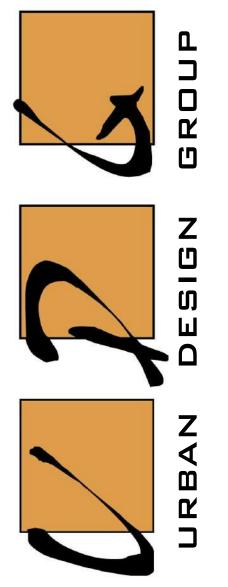
UPPER FLOOR PLAN

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



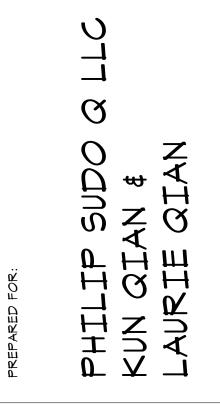






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SUBMITTAL/REVISION:	DATE:
SUBMITTED	-/-/2022
REVISED	-/-/2022
DESIGN BY:	PAVEL MELNIK
DRAFTED BY:	ANNA KONYAKINA
SHEET TITLE:	



PROJECT NUMBER:

21257



ELEVATION NOTES:

NOTE:

NOTE:

. VERIFY SHEAR WALL NAILING & HOLDOWNS PER PLAN PRIOR TO INSTALLING SIDING.

2. CAULK ALL EXTERIOR JOINTS & PENETRATIONS.

3. PROVIDE APPROVED CORROSION RESISTANT FLASHING AT EXTERIOR WALL ENVELOPE PER I.R.C. R703.8

4. PROVIDE FLASHING AT ROOF PENETRATIONS PER I.R.C. R905.2.8

5. PROVIDE WEATHER STRIPPING AT ALL EXTERIOR & GARAGE-INTERIOR DOORS.

6. PROVIDE CONTINUOUS GUTTERS & DOWNSPOUTS @ ALL EAVES, TYP.

ADDRESS OR HOUSE NUMBER TO BE POSTED AND PLAINLY VISIBLE FROM THE STREET FRONTAGE. MIN. 4" HEIGHT, 1/2" STROKE WIDTH AND CONTRASTING BACKGROUND.

8. PROVIDE STAIRWAY ILLUMINATION PER I.R.C. R303.6

9. SEE SHEET A1 FOR ADDITIONAL NOTES.

10. PROVIDE SURFACE DRAINAGE 6" : 10' MIN. AWAY FROM HOUSE FOOTPRINT IRC R401.3

NO OPERABLE WINDOW SHALL BE INSTALLED LESS THAN 24 INCHES ABOVE FINISHED FLOOR THAT IS GREATER THAN 72 INCHES ABOVE THE FINISH GRADE OR OTHER SURFACE BELOW ON THE EXTERIOR OF THE BUILDING.

CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS OF PROJECT AND REPORT ANY OMISSIONS / DISCREPANCIES TO DESIGNER PRIOR TO COMMENCING WORK. DESIGNER SHALL NOT BE RESPONSIBLE FOR DISCREPANT CONDITIONS RESULTING FROM UNAUTHORIZED WORK PERFORMED BY THE CONTRACTOR.

NOTE: FOR HARDIE PANEL DETAILS SEE SHEET A13 FOR ARTISAN LAP SIDING DETAILS SEE SHEET A14

SMOKE & CARBON MONOXIDE ALARMS:

SMOKE AND CARBON MONOXIDE ALARMS MUST BE PROVIDED IN ALL REQUIRED LOCATIONS AND MUST BE:

* AUDIBLE IN ALL PARTS OF THE HOUSE * INSTALLED PER MANUFACTURER'S INSTRUCTIONS

NEW HOUSES (IRC R314 & R315)

SMOKE ALARMS AND CARBON MONOXIDE ALARMS ARE REQUIRED AND MUST BE CONNECTED TO THE MAIN ELECTRICAL SYSTEM WITH BATTERY BACKUP.

CARBON MONOXIDE ALARMS ARE REQUIRED IN ALL NEW AND EXISTING HOMES, APARTMENTS, CONDOMINIUMS, AND OTHER MULTI-FAMILY UNITS. REQUIRED LOCATIONS

* SMOKE ALARMS SHALL BE LOCATED IN EACH SLEEPING ROOM AND IN NAPPING AREAS IN A FAMILY HOME CHILD CARE. * SMOKE ALARMS AND CARBON MONOXIDE ALARMS SHALL BE LOCATED

OUTSIDE EACH SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS. * SMOKE ALARMS AND CARBON MONOXIDE ALARMS SHALL BE LOCATED

ON EVERY FLOOR LEVEL, INCLUDING BASEMENTS (DOES NOT INCLUDE CRAWLSPACE AND UNINHABITABLE ATTICS) * IN SPLIT LEVEL FLOOR PLANS, AT THE UPPER LEVEL, PROVIDED THERE IS

NO INTERVENING DOOR BETWEEN ADJACENT LEVELS AND THE LOWER LEVEL IS LESS THAN A FULL STORY BELOW THE UPPER LEVEL * A CARBON MONOXIDE ALARM IS REQUIRED IN A BEDROOM WHEN

A FUELBURNING

APPLIANCE IS INSTALLED IN THE BEDROOM OR ITS ATTACHED BATHROOM.

* A COMBINATION ALARM (COMBINED SMOKE AND CARBON MONOXIDE ALARM) IS ACCEPTABLE IN ANY REQUIRED LOCATION. *WALL MOUNTED ALARMS MUST BE NOT MORE THAN 12 INCHES FROM THE

ADJOINING CEILING SURFACE. * AVOID PLACING ALARMS LESS THAN 3 FEET FROM SUPPLY REGISTERS OF A FORCED AIR HEATING OR COOLING SYSTEM AND DO NOT PLACE ALARMS

IN THE DIRECT AIRFLOW OF THE REGISTERS. * AVOID PLACING ALARMS WITHIN 3 FEET HORIZONTALLY FROM DOORS TO BATHROOMS CONTAINING A BATHTUB OR SHOWER.

* DO NOT PLACE ALARMS IN SPACES WHERE TEMPERATURES MAY BE ABOVE OR BELOW THE ALARM'S OPERATING TEMPERATURE RANGE.

* DO NOT PLACE ALARMS WITHIN 3 FEET OF THE BLADES OF A CEILING FAN. * ALARMS IN PEAKED OR SLOPED CEILINGS MUST BE WITHIN 3 FEET OF THE PEAK, MEASURED HORIZONTALLY, BUT NOT IN THE HIGHEST 4 INCHES OF THE

CEILING, MEASURED VERTICALLY. A. PHOTOELECTRIC SMOKE ALARMS MUST NOT BE LESS THAN 6 FEET FROM A PERMANENT COOKING APPLIANCE.

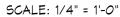
B. IONIZATION SMOKE ALARMS WITH AN ALARM-SILENCING SWITCH MUST NOT BE LESS THAN 10 FEET FROM A PERMANENT COOKING APPLIANCE. C. IONIZATION SMOKE ALARMS WITHOUT AN ALARM-SILENCING SWITCH MUST NOT BE LESS THAN 20 FEET FROM A PERMANENT COOKING APPLIANCE CARBON MONOXIDE ALARM LOCATION LIMITATIONS

* DO NOT PLACE ALARMS DIRECTLY ABOVE OR BESIDE FUEL-BURNING APPLIANCES.

* DO NOT PLACE ALARMS IN DIRECT SUNLIGHT.

* DO NOT PLACE ALARMS IN LOW AREAS WHERE CHILDREN CAN REACH. DO NOT PLACE ALARMS BEHIND CURTAINS OR ANY STRUCTURE THAT MIGHT PREVENT CARBON MONOXIDE FROM REACHING THE SENSOR.







326'

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

- REAR (WEST) ELEVATION)-

PROJECT NUMBER:

326

21257



ELEVATION NOTES: 1. VERIFY SHEAR WALL NAILING & HOLDOWNS PER PLAN PRIOR TO INSTALLING SIDING. 2. CAULK ALL EXTERIOR JOINTS & PENETRATIONS. 3. PROVIDE APPROVED CORROSION RESISTANT FLASHING AT EXTERIOR WALL ENVELOPE PER I.R.C. R703.8 4. PROVIDE FLASHING AT ROOF PENETRATIONS PER I.R.C. R905.2.8 5. PROVIDE WEATHER STRIPPING AT ALL EXTERIOR & GARAGE-INTERIOR DOORS.

6. PROVIDE CONTINUOUS GUTTERS & DOWNSPOUTS @ ALL EAVES, TYP.

ADDRESS OR HOUSE NUMBER TO BE POSTED AND PLAINLY VISIBLE FROM THE STREET FRONTAGE. MIN. 4" HEIGHT, 1/2" STROKE WIDTH AND CONTRASTING BACKGROUND.

8. PROVIDE STAIRWAY ILLUMINATION PER I.R.C. R303.6

9. SEE SHEET A1 FOR ADDITIONAL NOTES.

10. PROVIDE SURFACE DRAINAGE 6" : 10' MIN. AWAY FROM HOUSE FOOTPRINT IRC R401.3

NOTE:

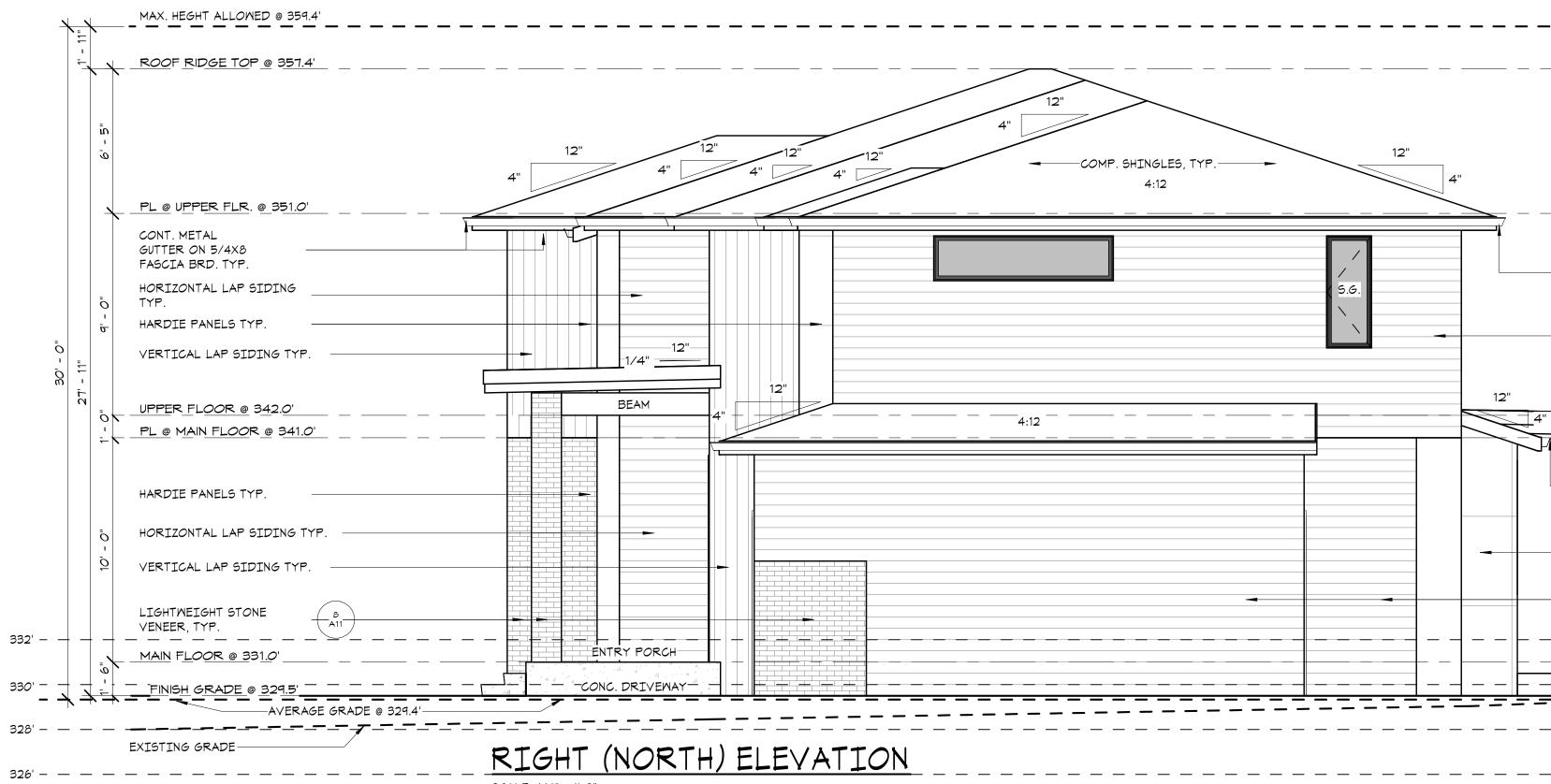
NO OPERABLE WINDOW SHALL BE INSTALLED LESS THAN 24 INCHES ABOVE FINISHED FLOOR THAT IS GREATER THAN 72 INCHES ABOVE THE FINISH GRADE OR OTHER SURFACE BELOW ON THE EXTERIOR OF THE BUILDING.

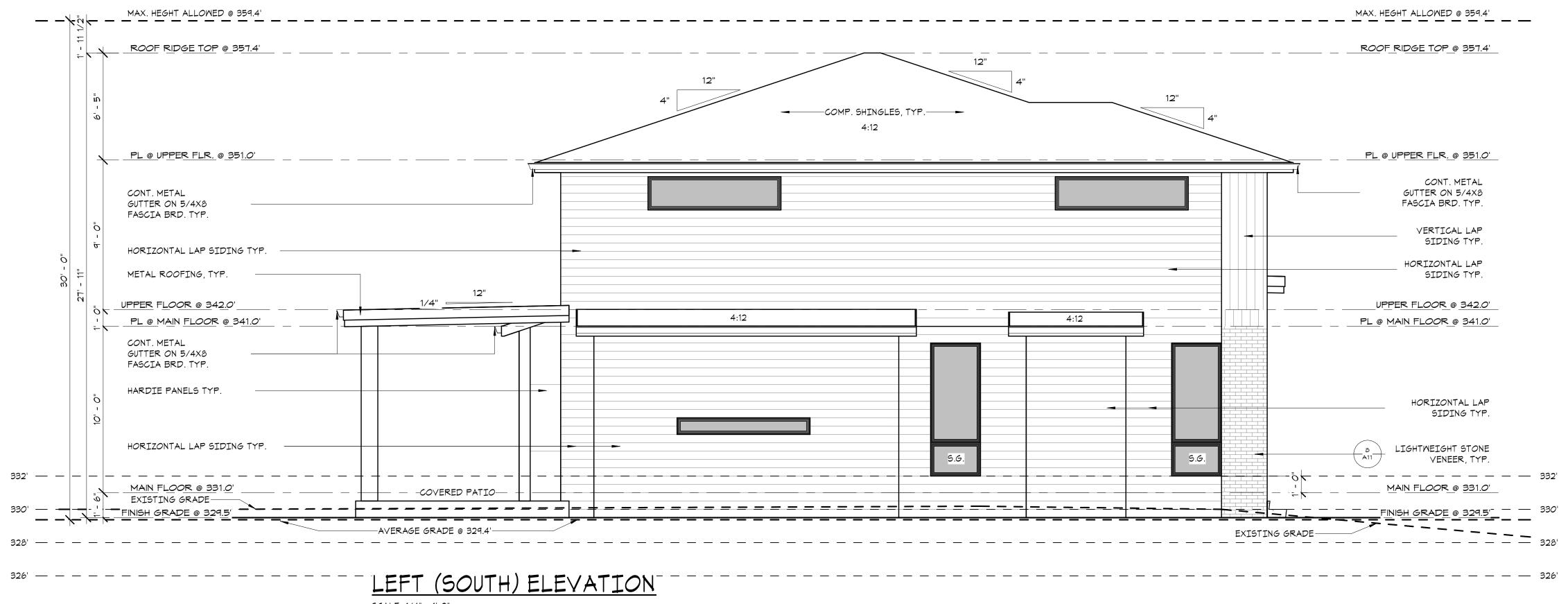
NOTE:

CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS OF PROJECT AND REPORT ANY OMISSIONS / DISCREPANCIES TO DESIGNER PRIOR TO COMMENCING WORK. DESIGNER SHALL NOT BE RESPONSIBLE FOR DISCREPANT CONDITIONS RESULTING FROM UNAUTHORIZED WORK PERFORMED BY THE CONTRACTOR.

NOTE:

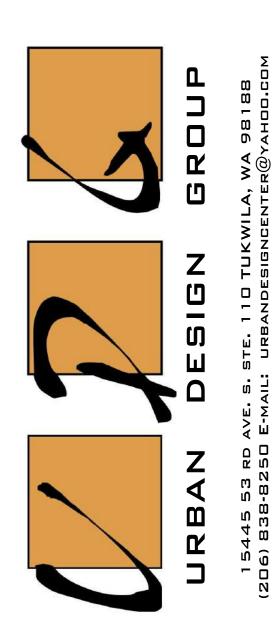
FOR HARDIE PANEL DETAILS SEE SHEET A13 FOR ARTISAN LAP SIDING DETAILS SEE SHEET A14





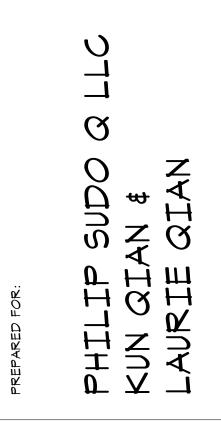
SCALE: 1/4" = 1'-0"

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



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326'



SUBMITTAL/REVISION: DATE: SUBMITTED REVISED

-/-/2022 -/-/2022

PAVEL MELNIK ANNA KONYAKINA

DRAFTED BY: SHEET TITLE:

DESIGN BY:



PROJECT NUMBER:

21257

SHEET NUMBER:



<u>PL @ UPPER FLR. @ 351.0'</u> CONT. METAL GUTTER ON 5/4X8 FASCIA BRD. TYP. HORIZONTAL LAP SIDING TYP. METAL ROOFING, TYP. 12" <u>UPPER FLOOR @ 342.0'</u> 1/4' <u>PL @ MAIN FLOOR @ 341.0'</u> CONT. METAL GUTTER ON 5/4X8 FASCIA BRD. TYP. HARDIE PANELS TYP. HORIZONTAL LAP SIDING TYP. <u>MAIN FLOOR @</u> 3<u>31.0'</u> -COVERED PATIO--EXISTING GRADE *____ 330' FINISH GRADE @ 329.5 328

MAX. HEGHT ALLOWED @ 359.4'

ROOF RIDGE TOP @ 357.4

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PERSPECTIVE VIEW: FRONT VIEW



PERSPECTIVE VIEW: REAR ELEVATION



PERSPECTIVE VIEW: BIRD EYE VIEW

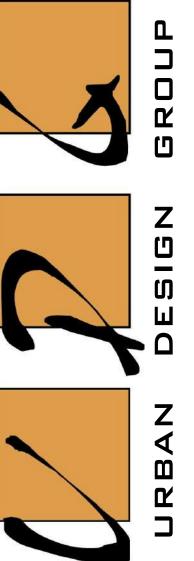


PERSPECTIVE VIEW: REAR/LEFT ELEVATION

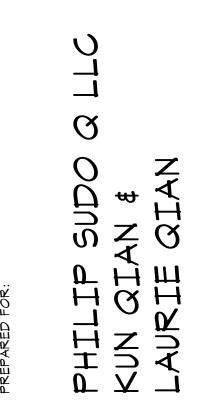
PERSPECTIVE VIEW:

PERSPECTIVE VIEWS ARE FOR REFERENCE ONLY. THEY SHOULD NOT BE USED TO DETERMINE ANY PORTION OF THE CONSTRUCTION OTHER THAN GENERAL MATERIAL APPEARANCE. REFER TO ELEVATION SHEETS FOR DETAILS.





RESIDENCE 0 4 0 а Ю ζļ с П Ц Ц Ц Ц PROJECT NAME: STNGL 8450 PAROI PAROI



SUBMITTAL/REVISION: DATE: SUBMITTED REVISED

-/-/2022 -/-/2022

DESIGN BY: DRAFTED BY: SHEET TITLE:

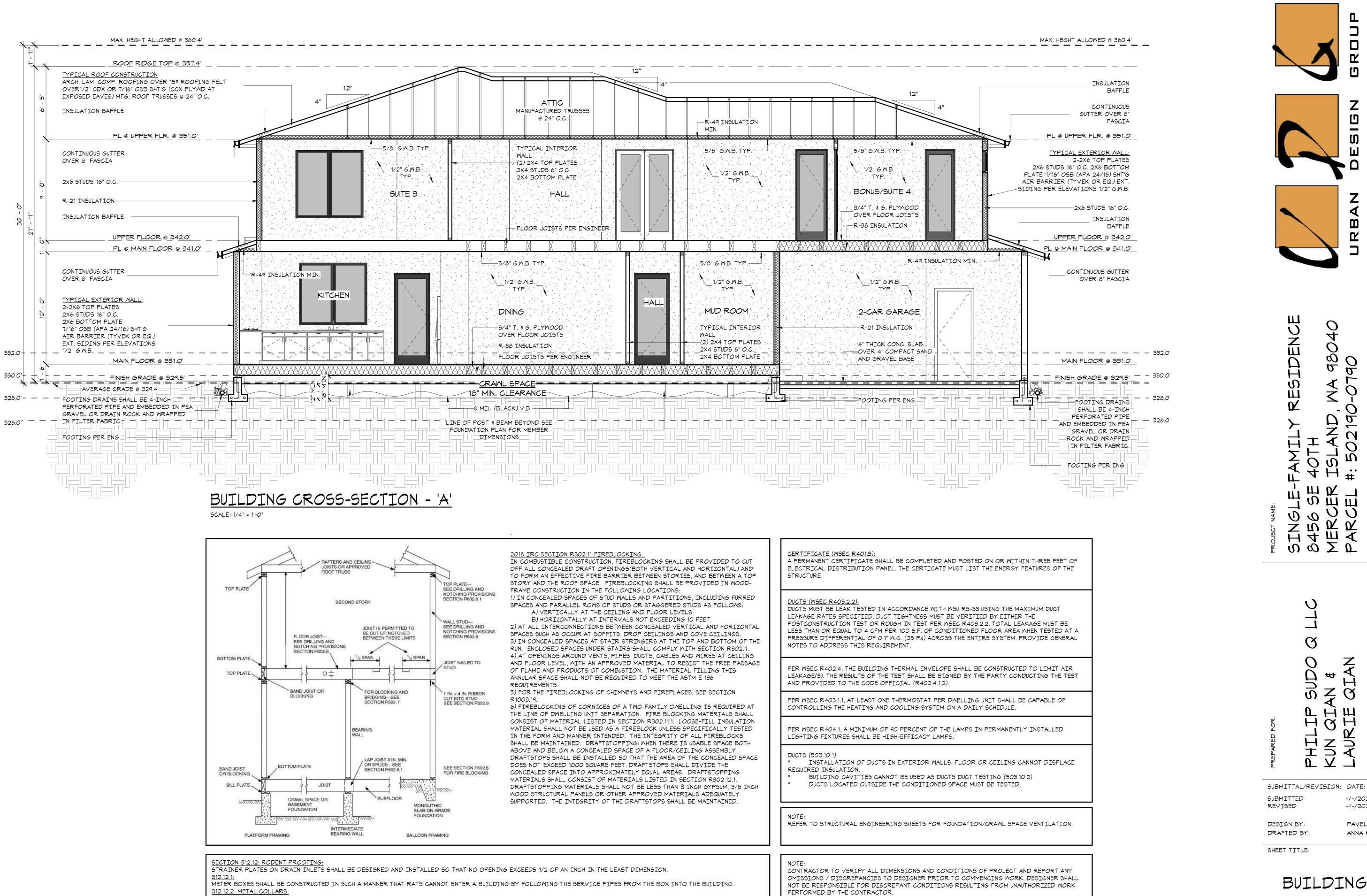
PAVEL MELNIK ANNA KONYAKINA

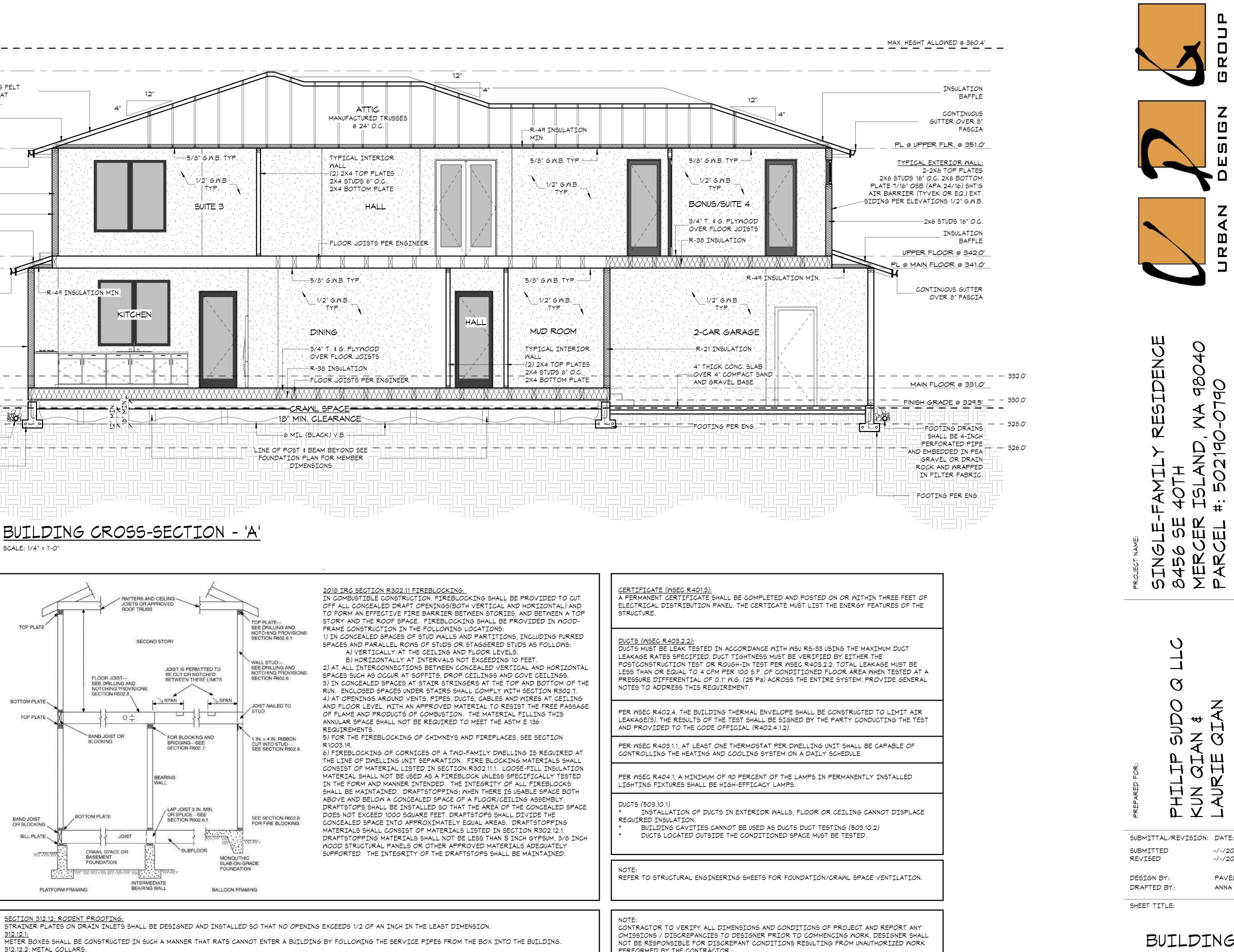
PERSPECTIVE VIEWS

PROJECT NUMBER:









312.12.2: METAL COLLARS.

312.12.3: TUB WASTE OPENINGS.

TUB WASTE OPENINGS IN FRAMED_CONSTRUCTION TO CRAWL SPACES AT OR BELOW THE FIRST FLOOR SHALL BE PROTECTED BY THE INSTALLATION OF APPROVED METAL COLLARS OR METAL SCREEN SECURELY FASTENED TO THE ADJOINING STRUCTURE WITH NO OPENING GREATER THAN 1/2 OF AN INCH IN THE LEAST DIMENSION. * 2018 UNIFORM PLUMBING CODE WITH WASHINGTON STATE AMENDMENTS (UPC)

IN OR ON BUILDINGS WHERE OPENINGS HAVE BEEN MADE IN WALLS, FLOORS, OR CEILINGS FOR THE PASSAGE OF PIPES, SUCH OPENINGS SHALL BE CLOSED AND PROTECTED BY THE INSTALLATION OF APPROVED METAL COLLARS SECURELY FASTENED TO THE ADJOINING STRUCTURE.

<u>CERTIFICATE (WSEC R401.3):</u> A PERMANENT CERTIFICATE SHALL BE COMPLETED AND POSTED ON OR WITHIN THREE FEET OF ELECTRICAL DISTRIBUTION PANEL. THE CERTICATE MUST LIST THE ENERGY FEATURES OF THE STRUCTURE.
DUCTS (WSEC R403.2.2): DUCTS MUST BE LEAK TESTED IN ACCORDANCE WITH WSU RS-33 USING THE MAXIMUM DUCT LEAKAGE RATES SPECIFIED. DUCT TIGHTNESS MUST BE VERIFIED BY EITHER THE POSTCONSTRUCTION TEST OR ROUGH-IN TEST PER WSEC R403.2.2. TOTAL LEAKAGE MUST BE LESS THAN OR EQUAL TO 4 CFM PER 100 S.F. OF CONDITIONED FLOOR AREA WHEN TESTED AT A PRESSURE DIFFERENTIAL OF 0.1" W.G. (25 Pa) ACROSS THE ENTIRE SYSTEM. PROVIDE GENERAL NOTES TO ADDRESS THIS REQUIREMENT.
PER WSEC R402.4, THE BUILDING THERMAL ENVELOPE SHALL BE CONSTRUCTED TO LIMIT AIR LEAKAGE(3). 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 MSEC R403.1.1, AT LEAST ONE THERMOSTAT PER DWELLING UNIT SHALL BE CAPABLE OF CONTROLLING THE HEATING AND COOLING SYSTEM ON A DAILY SCHEDULE.
PER WSEC R404.1, A MINIMUM OF 90 PERCENT OF THE LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE HIGH-EFFICACY LAMPS.
DUCTS (503.10.1) * INSTALLATION OF DUCTS IN EXTERIOR WALLS, FLOOR OR CEILING CANNOT DISPLACE REQUIRED INSULATION. * BUILDING CAVITIES CANNOT BE USED AS DUCTS DUCT TESTING (503.10.2) * DUCTS LOCATED OUTSIDE THE CONDITIONED SPACE MUST BE TESTED.
NOTE: REFER TO STRUCTURAL ENGINEERING SHEETS FOR FOUNDATION/CRAWL SPACE VENTILATION.
NOTE: CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS OF PROJECT AND REPORT ANY OMISSIONS / DISCREPANCIES TO DESIGNER PRIOR TO COMMENCING WORK. DESIGNER SHALL NOT BE RESPONSIBLE FOR DISCREPANT CONDITIONS RESULTING FROM UNAUTHORIZED WORK PERFORMED BY THE CONTRACTOR.
NOTE: FOR MORE DETAILS SEE STRUCTURAL ENGINEERING PLAN.
NOTE: REFER TO STRUCTURAL SHEETS FOR SHEAR WALL SCHEDULE AND ENGINEERING PLAN WHICH CONTAIN REFERENCES AND/OR INSTRUCTIONS PERTAINING TO EACH SHEAR WALL INDICATED IN THIS PLAN

-/-/2022 -/-/2022

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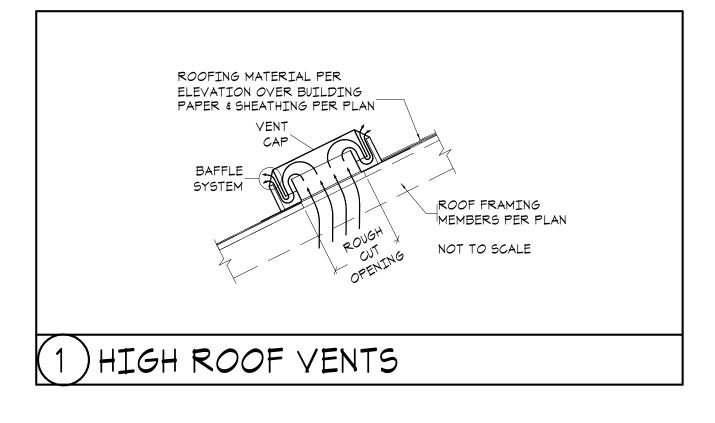
PAVEL MELNIK ANNA KONYAKINA



PROJECT NUMBER:

21257







DOWNSPOUTS PER SITE PLAN C-1.



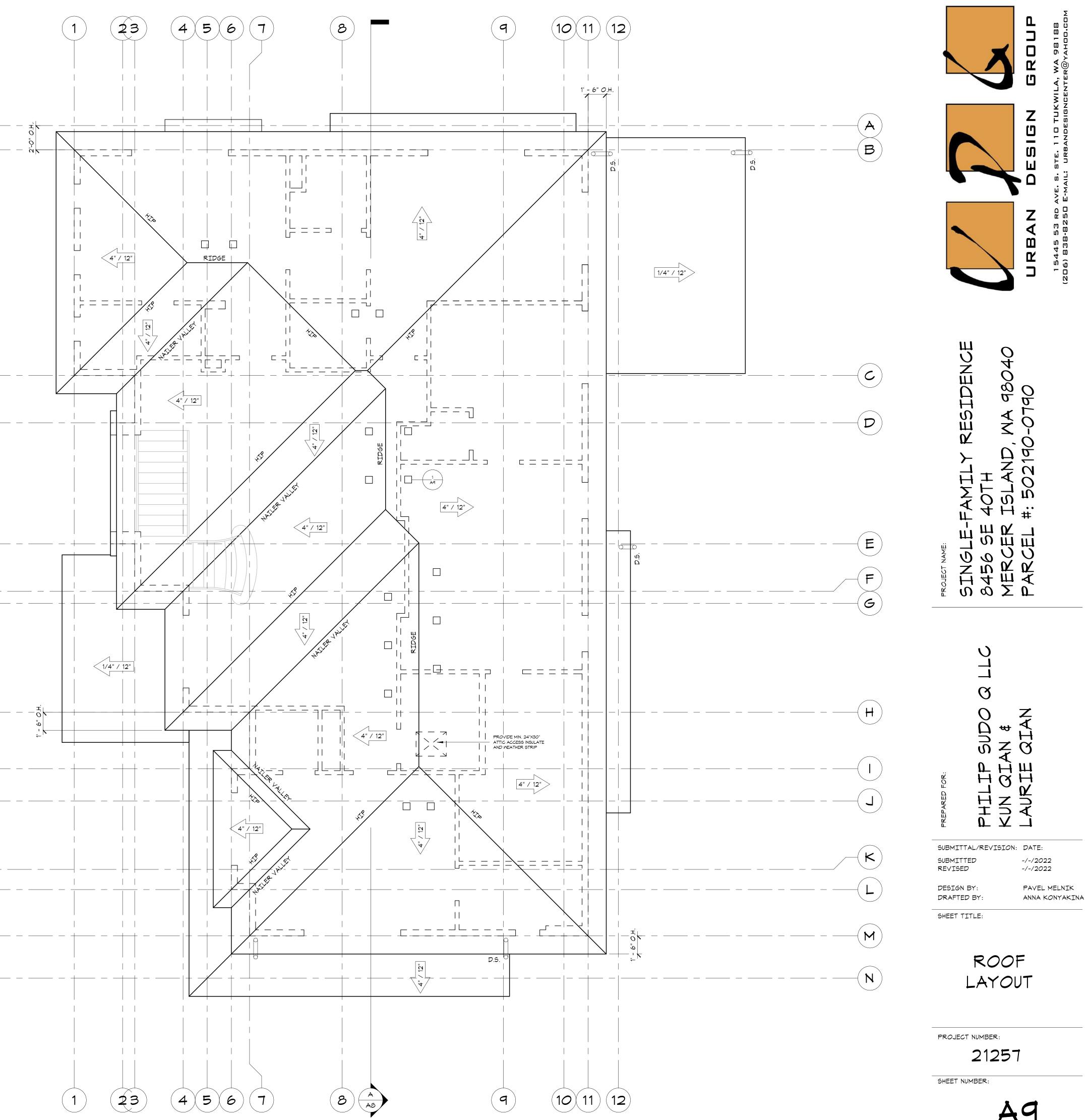
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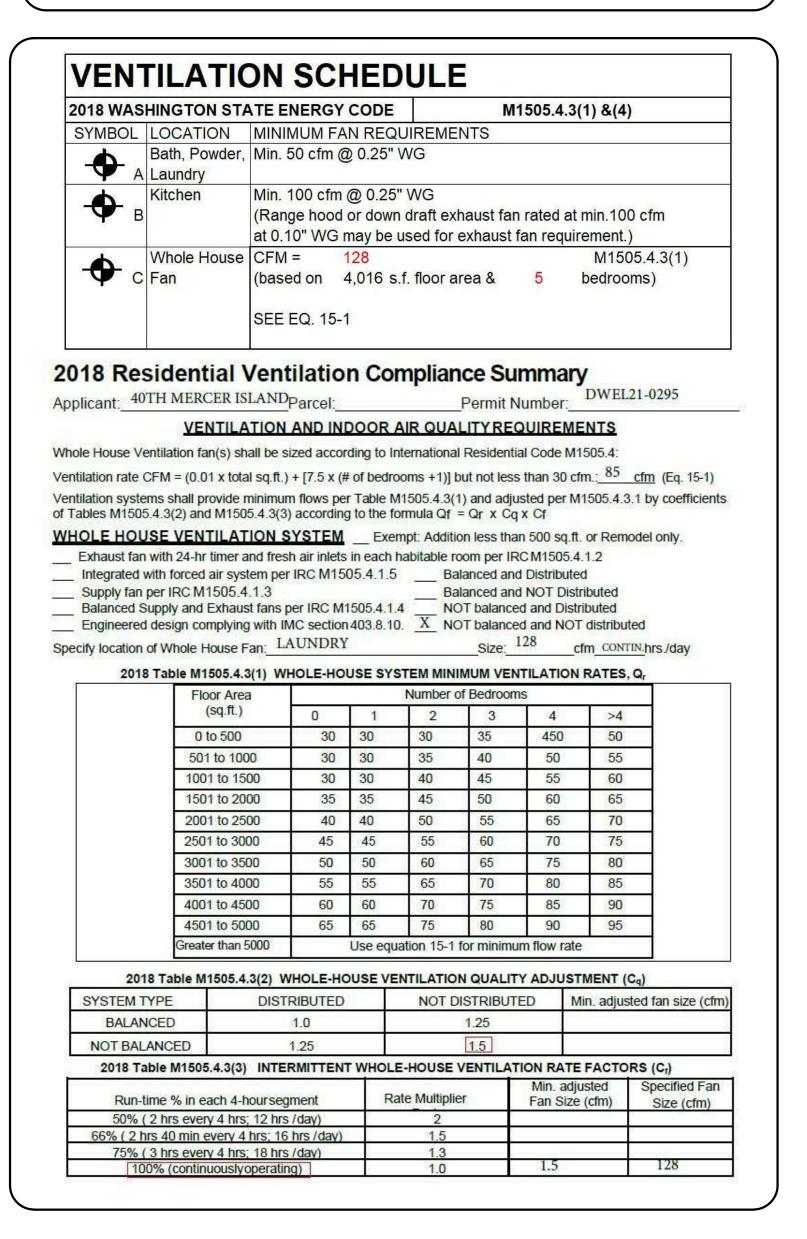
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A9

ROOM	# OF WNDS.	WND. W.	WND. H.	MANUF.	FRAME TYPE	WDW. TYPE	MODEL NO.	AIR GAP	GAS	LO-E	U-VAL. (1)	AREA	N.A.
MAIN FLOOR				0,1	40.						***************************************		
STAIRCASE	2	2,00	6,00	MILGARD	VINYL	PICTURE	5320	1/2"	AIR	YES	0,28	24,00	6,
STAIRCASE	1	4,00		MILGARD	VINYL	PICTURE	5320	1/2"	AIR	YES	0,28	24,00	6,
GREAT RM.	4	3,00	6,00	MILGARD	VINYL	PICTURE	5320	1/2"	AIR	YES	0,28	72,00	20,
GREAT RM.	4	3,00	2,00	MILGARD	VINYL	PICTURE	5320	1/2"	AIR	YES	0,28	24,00	6,
BREAT RM.	1	6,00		MILGARD	VINYL	PICTURE	5320	1/2"	AIR	YES	0,28	36,00	10,
BREAT RM.	1	6,00		MILGARD	VINYL	PICTURE	5320	1/2"	AIR	YES	0,28	12,00	3.
ITCHEN	1	8,00		MILGARD	VINYL	PICTURE	5320	1/2"	AIR	YES	0,28	8,00	2
ITCHEN	1	6,00		MILGARD	VINYL	SLIDER	5120	1/2"	AIR	YES	0,28	33,00	9
ITCHEN	1	3,00		MILGARD	VINYL	S.G.D.	5621	1/2"	AIR	YES	0,28	24,00	6
VALK-IN-PANTRY	1	5,00		MILGARD	VINYL	PICTURE	5320	1/2"	AIR	YES	0,28	5,00	1
DR.	1	2,00		MILGARD	VINYL	PICTURE	5320	1/2"	AIR	YES	0,28	11,00	3
IALL	1	3,00		MILGARD	VINYL	S.G.D.	5621	1/2"	AIR	YES	0,28	24,00	6
EN/SUITE 5	1	8,00		MILGARD	VINYL	SLIDER	5120	1/2"	AIR	YES	0,28	48,00	13
ATH 4	1	2,00		MILGARD	VINYL	PICTURE	5320	1/2"	AIR	YES	0,28	4,00	1
PPER FLOOR		2,00	2,00	MILONITO	THILE	TIOTOTIL	0020	1/2	/ 11 1	120	0,20	1,00	^
ONUS/SUITE 4	1	6,00	5.00	MILGARD	VINYL	SLIDER	5120	1/2"	AIR	YES	0,28	30,00	8
ONUS/SUITE 4	2	3,00		MILGARD	VINYL	PICTURE	5320	1/2"	AIR	YES	0,28	12,00	3
PEN TO BELOW	2	3,00		MILGARD	VINYL	PICTURE	5320	1/2"	AIR	YES	0,28	30,00	8
TAIRCASE	2	2,00		MILGARD	VINYL	PICTURE	5320	1/2"	AIR	YES	0,28	24,00	6
TAIRCASE	2	2,00		MILGARD	VINYL	PICTURE	5320	1/2"	AIR	YES	0,28	12,00	3
TAIRCASE	1	4,00		MILGARD	VINYL	PICTURE	5320	1/2"	AIR	YES	0,28	24,00	6
TAIRCASE	1	4,00		MILGARD	VINYL	PICTURE	5320	1/2"	AIR	YES	0,28	12,00	
V.I.C.	1	2,00		MILGARD	VINYL	PICTURE	5320	1/2"	AIR	YES	0,28	4,00	3
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UITE 2	1	2,00		MILGARD	VINYL	CASE. PICTURE	5521	1/2" 1/2"	AIR	YES	0,28	4,00	1
Auduration and an and a second second		2,00		MILGARD MILGARD	VINYL	and the lateral state in the state of the	5320		AIR	YES	0,28	4,00	1
UITE 2	1	8,00		A second second second second second	VINYL	PICTURE	5320	1/2"	AIR	YES	0,28	16,00	4
UITE 3		8,00		MILGARD		-	5320	1/2"	AIR	YES	0,28	16,00	4
	1	6,00		MILGARD	VINYL	SLIDER	5120	1/2" 1/2"	AIR		0,28	36,00	10
ASTER BATH	2	3,00		MILGARD	VINYL	PICTURE	5320	1/2"	AIR	YES	0,28	30,00	8
ISTR. STE.	1	3,00		MILGARD	VINYL	PICTURE	5320		AIR	YES	0,28	18,00	5
ISTR. STE.	1	3,00		MILGARD	VINYL	CASE.	5521		AIR		0,28	18,00	5
ATH 3		2,00	5,00	MILGARD	VINYL	CASE.	5521	1/2"	AIR	YES	0,28	10,00 649,00	2 181
OORS WITH MOR							5004	1/01		VEC	0.00	40.00	10
OYER	2	3,00	8,00	MILGARD		S.G.D.				YES		48,00	13
					L	DOORS WITH M AVC	G. U-VALU					48,00	13 13
KYLIGHTS AND S	KYWAL	LS					1		i	r —			
					1			S	KYLIO	L GHT T	OTAL:		
						AVG.	U-VALU					10000	1978 1
												AREA	UA
												697,00	195
	GLAZI	NG % =		TOTAL 1		=	697	.00	S.F.	=		TOTAL 1 17,36%	TOTAL 2
				EATED AR	EA		4016		S.F.	-			
AV	/G. U-V/	alue =	UA	TOTAL (TO A TOTAL (T	T. 2)	.=	195	16	UA A		<u></u>	0,28	U-VALI
			ADE	A IOTAL (I	01.1)		097	.00	A				



Standard Truss / Scissor Truss Roo	LOWER ROO	
Roof Area :	235 s.f.	
Ventilation Required:	235 s.f. x 144 s.i. / s.f. / 300 =	112,8 s.i. Req'd
Provide 1/2 ventilation at eaves, 1/2 a	bove midpoint & min. 3 ft. above eave vents	
Eave Ventilation:		
Birdblocking =	4,71 s.i. / l.f 25% reduction =	3,53 s.i. / l.f.
Eave Ventilation Req'd =	112,8 s.i. / 2 / s.i. per l.f. =	15,97 l.f.
Provide :	16 I.f. birdblocking. Ventilation =	56,52 s.i.
Min. Ventilation Provided =	56,52 s.i. is greater than	56,4 s.i. Req'd
Upper Roof Ventilation:		
7"x7" Attic Roof Jack =	49 s.i. each - 25% screen reduction =	36,75 s.i. each.
Upper Ventilation Req'd =	112,8 s.i. / 2 / s.i. of each vent =	1,53 vents
Provide:	2 -7"x7" roof jacks. Ventilation =	73,50 s.i.
Ventilation Provided =	73,50 s.i. is greater than	56,4 s.i. Req'd
Use : (minimum)	16 I.f. birdblocking. Ventilation =	56,52 s.i.
Use : (minimum)	2 -7"x7" roof jacks. Ventilation =	73,50 s.i.
Total Min. Ventilation Provided =	130,02 s.i. IS GREATER THAN :	112,8 s.i. Reg'd

ROOF VENTILATION

Standard Truss / Scissor Truss Root	MAIN ROO	
Roof Area :	2350 s.f.	
Ventilation Required:	2350 s.f. x 144 s.i. / s.f. / 300 =	1128 s.i. Req'd
Provide 1/2 ventilation at eaves, 1/2 ab	ove midpoint & min. 3 ft. above eave vents	
Eave Ventilation:		
Birdblocking =	4,71 s.i. / l.f 25% reduction =	3,53 s.i. / l.f.
Eave Ventilation Req'd =	1128 s.i. / 2 / s.i. per l.f. =	159,66 l.f.
Provide :	160 I.f. birdblocking. Ventilation =	565,20 s.i.
Min. Ventilation Provided =	565,2 s.i. is greater than	564 s.i. Req'd
Upper Roof Ventilation:		
7"x7" Attic Roof Jack =	49 s.i. each - 25% screen reduction =	36,75 s.i. each.
Upper Ventilation Req'd =	1128 s.i. / 2 / s.i. of each vent =	15,35 vents
Provide:	16 -7"x7" roof jacks. Ventilation =	588,00 s.i.
Ventilation Provided =	588,00 s.i. is greater than	564 s.i. Req'd
Use : (minimum)	160 I.f. birdblocking. Ventilation =	565,20 s.i.
Use : (minimum)	16 -7"x7" roof jacks. Ventilation =	588,00 s.i.
Total Min. Ventilation Provided =	1153,20 s.i. IS GREATER THAN :	1128 s.i. Reg'd

oject Information		Contact Information						
rcer Island RESIDENCE								
Heating System Type: C) All Other Systems	Heat Pump						
see detailed instructions for each section,	lace your cursor on the word	"Instructions"						
Design Temperature								
Instructions Mercer Island	-		rature Differenc					
Mercer Istend		$\Delta T = Indoor (70 d)$	legrees) - Outdoor De	sign Temp				
Area of Building Conditioned Floor Area								
Instructions Conditioned Floor Area	ea (sa ft)	4 016						
Average Ceiling Height	ea (sq it)	4010	Conditioned	Volumo				
Instructions Average Ceiling Height	iht (ft)	9,5	38 152	volume				
Glazing and Doors		A CONTRACT OF A	X Area	= UA				
Instructions U-0.28	-	0,280	697	195,16				
			N 10000	Constant Cross				
Skylights Instructions		0,50	X Area	= UA				
Insulation		-,						
Attic		U-Factor	X Area	= UA				
Instructions R-49	-	0,026	2 350	61,10				
Single Rafter or Joist Vaulted Ceiling	S	U-Factor	X Area	UA				
Instructions R-49 Advanced	-	0,020	0					
Above Grade Walls (see Figure 1)		Il Factor - 1	V Aug-	UA				
Instructions		U-Factor 2 0,056	X Area 3 471	UA 194,38				
R-21 Intermediate	T			1				
Floors Instructions			X Area	UA FO 22				
R-38]	0,025	2 373	59,33				
Below Grade Walls (see Figure 1)			X Area	UA				
Instructions R-21 Interior	- -	0,042	0					
Slab Below Grade (see Figure 1)		F-Factor	X Length	UA				
Instructions No Slab Below Grade i	n this project. 🔹	0,303	0					
Slab on Grade (see Figure 1)		F-Factor	X Length	UA				
Instructions R-10 Fully Insulated	_	0,360	0		_			
	155 24 13							
Location of Ducts		D	Laskars Or d	ficient				
Conditioned Space	-	Duct	t Leakage Coef 1,00	ncient				
			-1-3					
		n of UA		509,9				
igure 1.		elope Heat Load um of UA x ∆T			0 Btu / Hour			
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$\overline{1}$		olume x 0.6 x ∆T x 0. Iding Design Heat I			0 Btu / Hour			
Above Grade		ir leakage + envelope			U Blu / Hour			
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		ucts in unconditioned ucts in conditioned sp						
		timum Heat Equipr	10 (10 (10 (10 (10 (10 (10 (10 (10 (10 (0 Btu / Hour			
		uilding and duct heat uilding and duct heat						

ENERGY NOTES:

1. A RESIDENTIAL ENERGY COMPLIANCE CERTIFICATE COMPLYING WITH SEC R401.3 IS REQUIRED TO BE COMPLETED BY THE DESIGN PROFESSIONAL OR BUILDING AND PERMANENTLY POSTED WITHIN 3' OF THE ELECTRICAL PANEL PRIOR TO FINAL INSPECTION.

2. DUCT LEAKAGE TEST RESULTS SHALL BE PROVIDED TO THE BUILDING INSPECTOR AND HOMEOWNER PRIOR TO AN APPROVED FINAL INSPECTION PER SEC R403.2.2.

3. EACH DWELLING UNIT IS REQUIRED TO BE PROVIDED WITH AT LEAST ONE PROGRAMMABLE THERMOSTAT FOR THE REGULATION OF TEMPERATURE PER SEC R403.1.4. BUILDING AIR LEAKAGE TESTING, DEMONSTRATING THAT LEAKAGE RATE NOT EXCEED 5 AIR CHANGES PER HOUR AND CONFORM TO SEC R402.4.1 THROUGH R402.4.4.

5. MINIMUM 90% OF ALL INTERIOR LIUMINAIRES SHALL BE HIGH EFFICACY LUMINAIRES. ALL EXTERIOR LIGHTING SHALL BE HIGH EFFICACY LUMINAIRES PER SEC R404.1.

6. BUILDING ENVELOPE MEETS REQUIREMENTS OF TABLE R402.1.1, CLIMATE ZONE 4 OF 2018 SEC.

TABL	
DWELLING-GAF	RAGE SEP
SEPARATION	
From the residence and attics	Not less t garage si
From habitable rooms above the garage	Not less t
Structure(s) supporting floor/ceiling assemblies used for separation required by this section	Not less t
Garages located less than 3 feet from a dwelling unit on the same lot	Not less t side of ex

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. EXCEPTION: HEAT DETECTORS AND HEAT ALARMS SHALL NOT BE REQUIRED IN DWELLINGS WITHOUT COMMERCIAL POWER. REQUIRED SAFETY GLAZING LOCATIONS: GLAZING IN SWINGING DOORS EXCEPT LOUVERED WINDOWS AND JALOUSIES COMPLYING WITH IRC R308.2.

GLAZING IN FIXED AND SLIDING PANELS OF SLIDING DOOR ASSEMBLIES AND PANELS IN SLIDING AND BIFOLD CLOSET DOOR ASSEMBLIES.

GLAZING IN STORM DOORS.

GLAZING IN ALL UNFRAMED SWINGING DOORS 4 GLAZING IN DOORS, WALLS, FENCES AND ENCLOSURES FOR HOT TUBS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHROOMS, AND SHOWERS. GLAZING IN ANY PORTION OF A BUILDING WALL ENCLOSING THESE COMPARTMENTS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60" ABOVE ANY STANDING OR WALKING SURFACE. EXCEPTION: OPENINGS THROUGH WHICH A 3" SHPERE IS UNABLE TO PASS. 6. GLAZING IN FIXED OR OPERABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL IS WITHIN A 24" ARC

- OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60" ABOVE THE WALKING SURFACE. EXCEPTION: WHERE THERE IS AN INTERVENING WALL OR PARTITION BETWEEN DOOR AND GLAZING OR WHERE THE DOOR ACCESSES A CLOSET 3' OR LESS IN DEPTH.
- 7. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL, WHEN ALL OF THE FOLLOWING APPLY: 7.1 EXPOSED AREA OF AN INDIVIDUAL PANE GREATER THAN 9 S.F. 7.2 BOTTOM EDGE LESS THAN 18" ABOVE THE FLOOR.
 - 7.3 TOP EDGE GREATER THAN 36" ABOVE THE FLOOR.

7.4 ONE OR MORE WALKING SURFACES WITHIN 36" HORIZONTALLY OF THE GLAZING. EXCEPTION: WHERE A PROTECTIVE 1-1/2"-WIDE BAR IS INSTALLED ON THE ACCESSIBLE SIDE OF THE GLAZING 34" - 38" ABOVE THE FLOOR AND IS CAPABLE OF WITHSTANDING A LOAD OF 50 LBS PER LINEAL FOOT OR WHERE THE BOTTOM EDGE OF THE GLASS IS 25' OR MORE ABOVE GRADE, A ROOF, WALKING SURFACE, OR OTHER HORIZONTAL SURFACE. 8. GLAZING IN RAILINGS REGARDLESS OF AREA OR HEIGHT ABOVE A WALKING SURFACE. INCLUDES STRUCTURAL BALUSTER PANELS AND NONSTRUCTURAL IN-FILL PANELS.

GLAZING IN WALLS AND FENCES ENCLOSING INDOOR AND OUTDOOR SWIMMING POOLS, HOT TUBS, AND SPAS WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60" ABOVE A WALKING SURFACE AND WITHIN 60" HORIZONTALLY OF THE WATER'S EDGE. THIS WILL APLY TO ALL SINGLE GLAZING AND ALL PANES IN MULTIPLE GLAZING. 10. R308.4.6 GLAZING ADJACENT TO STAIRS AND RAMPS.

GLAZING WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 36 INCHES (914 MM) ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE OF STAIRWAYS, LANDINGS BETWEEN FLIGHTS OF STAIRS AND RAMPS SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION.

EXCEPTIONS:

1. WHERE A RAIL IS INSTALLED ON THE ACCESSIBLE SIDE(S) OF THE GLAZING 34 TO 38 INCHES (864 TO 965 MM) ABOVE THE WALKING SURFACE. THE RAIL SHALL BE CAPABLE OF WITHSTANDING A HORIZONTAL LOAD OF 50 POUNDS PER LINEAR FOOT (730 N/M) WITHOUT CONTACTING THE GLASS AND HAVE A CROSS-SECTIONAL HEIGHT OF NOT LESS THAN 11/2 INCHES (38 MM).

2. GLAZING 36 INCHES (914 MM) OR MORE MEASURED HORIZONTALLY FROM THE WALKING SURFACE. R308.4.7 GLAZING ADJACENT TO THE BOTTOM STAIR LANDING. GLAZING ADJACENT TO THE LANDING AT THE BOTTOM OF A STAIRWAY WHERE THE GLAZING IS LESS THAN 36 INCHES (914 MM) ABOVE THE LANDING AND WITHIN A 60-INCH (1524 MM) HORIZONTAL ARC LESS THAN 180 DEGREES FROM THE BOTTOM TREAD NOSING SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION.

EXCEPTION: THE GLAZING IS PROTECTED BY A GUARD COMPLYING WITH SECTION R312 AND THE PLANE OF THE GLASS IS MORE THAN 18 INCHES (457 MM) FROM THE GUARD.

R302.6 DWELLING-GARAGE FIRE SEPARATION

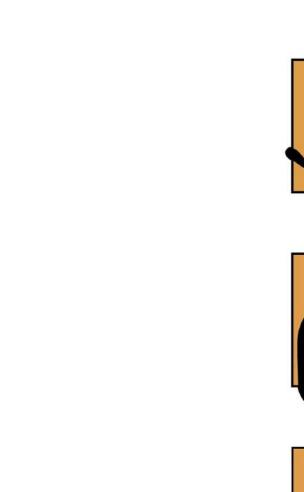
THE GARAGE SHALL BE SEPARATED AS REQUIRED BY TABLE R302.6. OPENINGS IN GARAGE WALLS SHALL COMPLY WITH SECTION R302.5. ATTACHMENT OF GYPSUM BOARD SHALL COMPLY WITH TABLE R702.3.5. THE WALL SEPARATION PROVISIONS OF TABLE R302.6 SHALL NOT APPLY TO GARAGE WALLS THAT ARE PERPENDICULAR TO THE ADJACENT DWELLING UNIT WALL.

NOTE:

CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS OF PROJECT AND REPORT ANY OMISSIONS / DISCREPANCIES TO DESIGNER PRIOR TO COMMENCING WORK. DESIGNER SHALL NOT BE RESPONSIBLE FOR DISCREPANT CONDITIONS RESULTING FROM UNAUTHORIZED WORK PERFORMED BY THE CONTRACTOR.

NOTE:

REFER TO STRUCTURAL SHEETS FOR SHEAR WALL SCHEDULE AND ENGINEERING PLAN WHICH CONTAIN REFERENCES AND/OR INSTRUCTIONS PERTAINING TO EACH SHEAR WALL INDICATED IN THIS PLAN.



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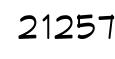
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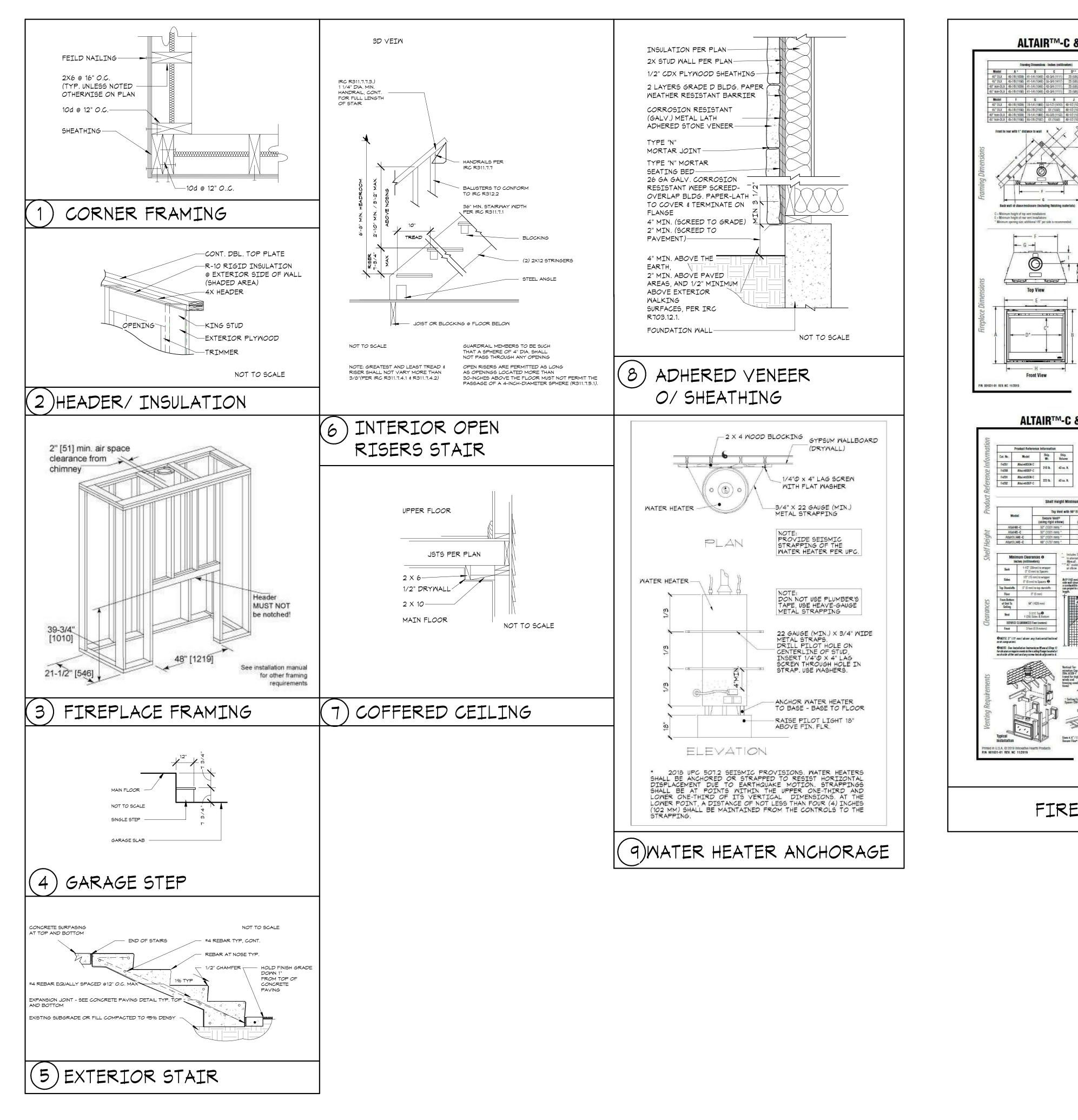
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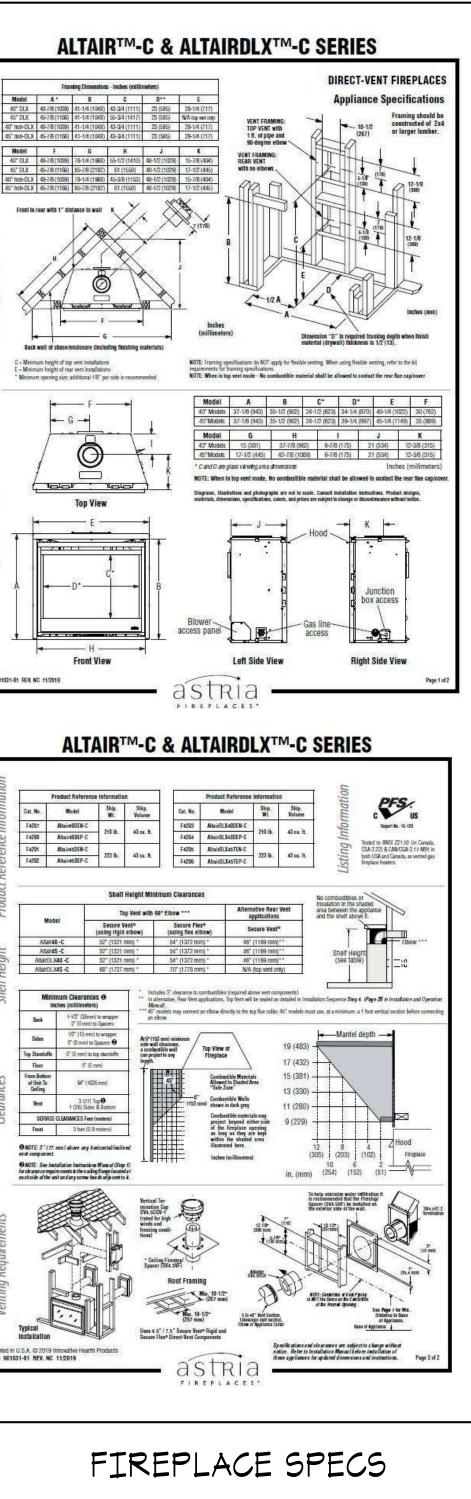


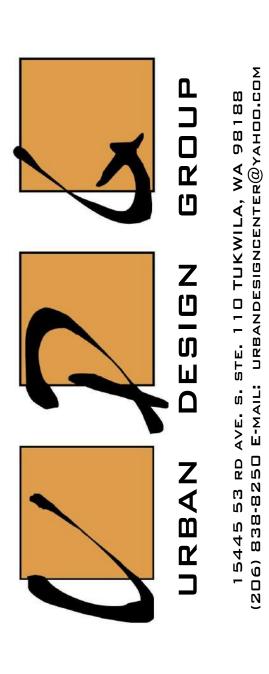
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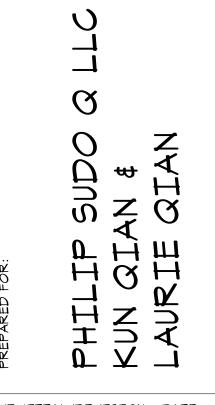
PARATION MATERIAL than 1/2-inch gypsum board or equivalent applied to the than ⁵/₈-inch Type X gypsum board or equivalent than 1/2-inch gypsum board or equivalent than 1/2-inch gypsum board or equivalent applied to the interior exterior walls that are within this area







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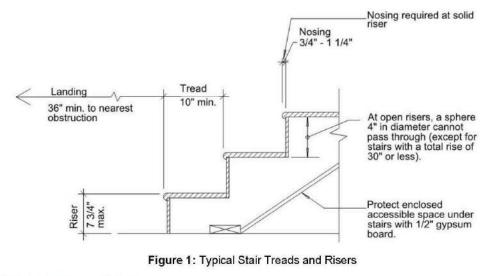
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Stair Treads and Risers

□ The largest tread or riser within any flight of stairs is not to exceed the smallest by more than 3/8 inches. (R311.7.5)

Illumination

- □ Interior stairways shall be provided with an artificial light source to illuminate landings and treads. There shall be a wall switch at each floor level to control the light source where the stairway has 6 or more risers. (R303.7)
- Exterior stairways shall be provided with an artificial light source located at the top landing of the stairway and located at the bottom landing where accessing a basement. (R303.8)

Handrails

□ Handrails are required on at least one side for stairways with four or more risers. See Tip Sheet 2 for additional information regarding handrails. (R311.7.8)

Landings

- □ Landings are required at the top and the bottom of stairways. A floor landing is not required at the top of an interior flight of stairs, provided a door does not swing over the stairs. (R311.7.6)
- □ A landing extending the width of the stair and measuring a minimum of 36 inches in the direction of travel is required at the top and bottom of every stairway. (R311.7.6)

Circular, Winding, or Spiral Stairways

□ For exceptions related to the construction of circular, winding, or spiral stairways, see IRC R311.7.5.2.1 and R311.7.10.

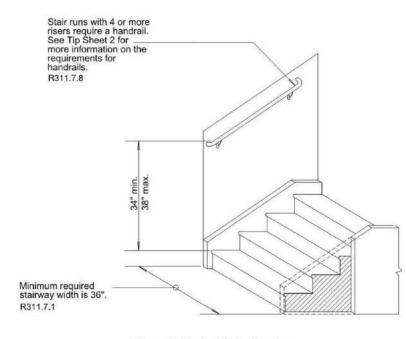
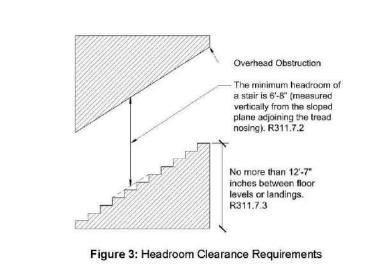


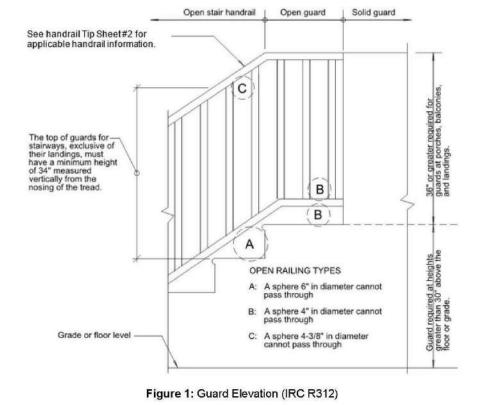
Figure 2: Typical Stair Elevation



BASIC STAIRS DETAIL

Residential Guards (Guardrails)

This tip sheet reflects code requirements of the 2018 International Residential Code (IRC) with Washington State Amendments.



Requirements

2)

Guards shall comply with IRC R312.1; refer to Figure 1 for major requirements.

Guards shall be structurally designed to comply with IRC Table R301.5 (i.e., designed for a 200-pound load in any direction along the top and a 50-pound point load elsewhere).

For glass guards or guards with glazing, see IRC R308.4.4.

GUARDRAILS DETAIL

Smoke, Heat, and Carbon Monoxide Alarms

This tip sheet reflects code requirements of the 2018 International Residential Code (IRC) with Washington State Amendments and the 2016 edition of NFPA 72. Definitions

- □ Smoke alarm: A device designed to respond when it senses smoke, typically as an indicator of
- Heat alarm: A device designed to respond when it senses a rise in temperature, typically as an indicator of fire.
- Carbon monoxide alarm: A device designed to respond when it senses carbon monoxide, a poisonous gas.

□ All alarms shall be UL listed and installed per manufacturer instructions. (R314.1.1, R315.1.1)

- **New Construction** □ Smoke alarms and carbon monoxide alarms shall be installed throughout each dwelling unit in all required locations. (R314.2.1, R315.2.1)
- □ A heat detector shall be provided in each new attached garage. (R314.2.3)
- □ Smoke alarms, heat alarms, and carbon monoxide alarms shall receive their primary power from the building wiring where such wiring is served from a commercial source and, where primary power is interrupted, shall receive power from a battery. Wiring shall be permanent and without a disconnecting switch other than those required for overcurrent protection. (R314.6, R315.6)
- U Where more than one smoke alarm is required to be installed within an individual dwelling unit, the alarm devices shall be interconnected in such a manner that the actuation of one alarm will activate all of the alarms in the individual dwelling unit. (R314.4, R315.5)
- □ Heat alarms shall be connected to a heat alarm or smoke alarm that is installed in the dwelling unit. Alarms that are installed for this purpose shall be located in a hallway, room, or other location that will provide occupant notification. (R314.4.1)
- □ Physical interconnection of smoke alarms shall not be required where **listed wireless alarms** are installed and all alarms sound upon activation of one alarm. (R314.4, R315.5)

Alterations, Repairs, and Additions

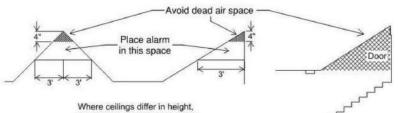
- □ In a dwelling unit where alterations, repairs or additions occur, smoke alarms and carbon monoxide alarms shall be installed throughout each dwelling unit, in all required locations, where not already present. (R314.2.2, R315.2.2)
- □ Smoke and carbon monoxide alarms can be powered by the building wiring or batteries. (R314.6, R315.6)
- □ Smoke alarms shall be interconnected within an individual dwelling except where such existing smoke alarms are not interconnected or where such new smoke alarm or alarm is not capable of being interconnected to the existing smoke alarms. (R314.4)
- Carbon monoxide alarms shall be interconnected except where the permit related work does not provide access to the building wiring (such as removing interior walls or ceiling finishes) and there is no attic, crawlspace, or basement available. (R315.5)

Required Locations

- □ A smoke alarm shall be located in each sleeping room or sleeping loft. (R314.3)
- □ A smoke alarm shall be located in each napping area of a family home childcare. (R314.3)
- □ A smoke alarm and a carbon monoxide alarm (or combination smoke and carbon monoxide alarm) shall be located outside each sleeping area in the immediate vicinity of the bedroom(s). (R314.3, R315.3)
- □ At least one smoke alarm and one carbon monoxide alarm shall be located on each floor level, including basements and habitable attics. (R314.3, R315.3)
- □ In split level floor plans, at the upper level, provided there is no intervening door between adjacent levels and the lower level is less than a full story below the upper level. (R314.3)
- □ A carbon monoxide alarm is required in a bedroom when a fuel-burning appliance is installed in the bedroom or its attached bathroom. (R315.3)
- □ A combination alarm (combined smoke and carbon monoxide alarm) is acceptable in any required location. (R314.5, R315.4)
- □ A heat alarm is required in each new attached garage. (R314.2.3)

Alarms and Detectors on Walls and Sloped/Peaked/Coffered Ceilings per **NFPA 72**

- Wall mounted alarms must be not more than 12 inches from the adjoining ceiling surface. (NFPA 72 29.8.3.3)
- □ Alarms in peaked or sloped ceilings must be within 3 feet horizontally and no closer than 4 inches vertically to the peak. Avoid placing alarms in dead air spaces; refer to Figure 1. (NFPA 72 29.8.3.1, 29.8.3.2, 29.8.3.4 (9), (10))
- □ For coffered ceilings, alarms shall be installed on the highest portion of the ceiling or on the sloped portion of the ceiling within 12 inches vertically down from the highest point. (NFPA 72 29.8.3.4 (11))



place alarms in highest locati

Figure 1: Smoke Alarms and Smoke Detectors in Sloped/Peaked Ceilings

- Specific Location Requirements per NFPA 72 Do not place alarms in spaces where temperatures may be above or below the alarm's operating temperature range. (NFPA 72 29.8.3.4 (1), (2), (3))
- □ Avoid placing alarms within 3 feet horizontally from doors or openings to bathrooms containing a bathtub or shower. (NFPA 72 29.8.3.4 (6))
- Do not place alarms within 3 feet from a supply register of a forced air heating or cooling system and it shall be installed outside of the direct airflow from those registers. (NFPA 72 29.8.3.4 (7))

Do not place alarms within 3 feet of the blades of a ceiling fan. (NFPA 72 29.8.3.4 (8))

Alarms and Detectors Near Cooking Appliances per NFPA 72

permanent cooking appliance. (NFPA 72 29.8.3.4 (4))

- Refer to Figure 2: A. Photoelectric smoke alarms shall not be installed less than 6 feet horizontally from a permanently installed cooking appliance. (NFPA 72 29.8.3.4 (4))
- B. Ionization smoke alarms with an alarm-silencing switch must not be less than 10 feet from a permanent cooking appliance. (NFPA 72 29.8.3.4 (4))
- C. Ionization smoke alarms without an alarm-silencing switch must not be less than 20 feet from a

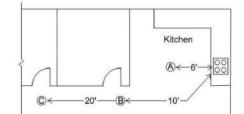
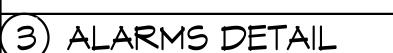


Figure 2: Smoke Alarms and Smoke Detectors Near Cooking Appliances

- Carbon Monoxide Alarm Location Limitations
- Do not place alarms directly above or beside fuel-burning appliances.
- Do not place alarms in direct sunlight.
- $\hfill\square$ Do not place alarms in low areas where children can reach. Do not place alarms behind curtains or any structure that might prevent carbon monoxide from reaching the sensor.

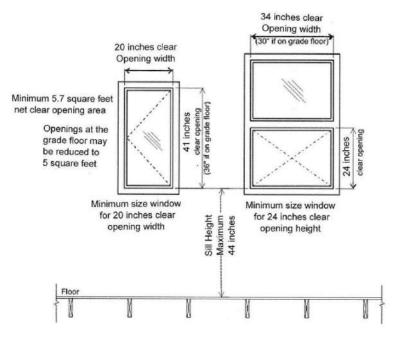


Residential Emergency Egress Openings This Tip Sheet reflects code requirements of the 2018 International Residential Code (IRC) with

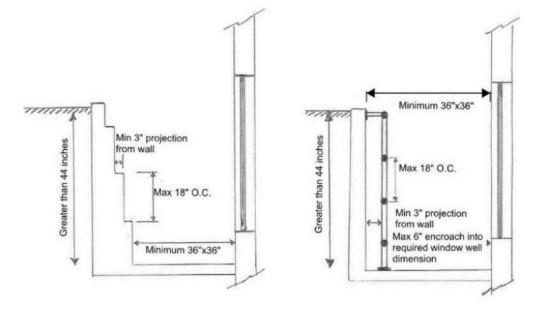
Washington State Amendments.

Emergency Escape and Rescue Opening

- Basements, habitable attics and every sleeping room shall have not less than one operable emergency escape and rescue opening. Where basements contain one or more sleeping rooms, an emergency escape and rescue opening shall be required in each sleeping room. Emergency escape and rescue openings shall be operational from the inside without the use of keys, tools, or special knowledge, and open directly into a public way, or to a yard or court that opens to a public way. (R310.1)
- U Where bars, grilles, covers, screens, or opening control devices are placed on emergency escape and rescue openings, area or window wells, the minimum net clear opening sizes shall comply and such devices shall be releasable or removable from the inside without the use of key, tool, special knowledge, or force greater than that required for normal operation of the escape and rescue opening. (R310.4)



- Window Wells in Conjunction with Emergency Escape and Rescue Openings □ The horizontal area of the window well shall be not less than 9 square feet, with a horizontal projection and width not less than 36 inches. The area of the window well shall allow the
- emergency escape and rescue opening to be fully opened. (R310.3.2) □ Window wells with a vertical depth greater than 44 inches shall be equipped with a permanently
- affixed ladder or steps useable with the emergency escape and rescue opening in the fully opened position and shall not encroach into the required dimensions of the window well. (R310.3.2.2)
- □ Ladder rungs or steps shall have an inside width of not less than 12 inches, shall project not less than 3 inches from the wall, and be spaced not more than 18 inches on center vertically for the full height of the window well. (R310.3.2.2)



Safety Glazing

This Tip Sheet reflects code requirements of the 2018 International Residential Code (IRC) with Washington State Amendments.

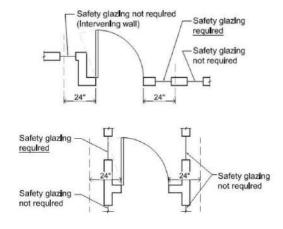
What is Safety Glazing?

Safety glazing is glass that is less dangerous when it breaks, such as tempered or laminated alass.

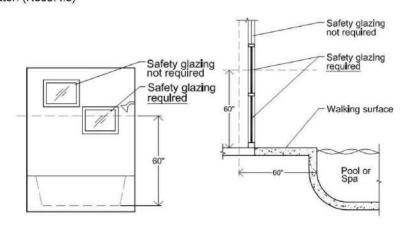
Per R308.1, where safety glazing is required, each pane must be provided with a manufacturer's label defining the type of glass and safety glazing standard to which it complies. For tempered glazing the label must be permanently etched, fired, or embossed, on the glass or be a type that once applied cannot be removed without being destroyed. For other types of safety glazing, a certificate, affidavit or other evidence confirming compliance with the code shall be provided at time of inspection.

Required Safety Glazing in Hazardous Locations

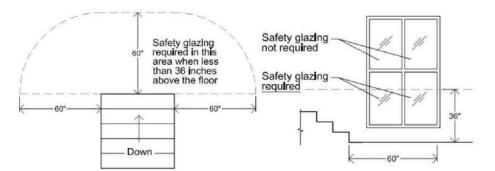
- 1. Glazing in Doors: Safety glazing is required in fixed and operable panels of swinging, sliding, and bifold doors. Safety glazing is not required in a door if the glazed openings do not allow the passage of a 3-inch sphere, or if the glazing in the door is decorative. (R308.4.1)
- 2. Glazing Adjacent to Doors: Glazing adjacent to doors is required in the following locations if the bottom edge of the glazing is less than 60 inches above the walking surface: Within 24 inches of either side of the door in the plane of the door in a closed position, or if glazing is in a wall less than 180 degrees from the plane of the door in a closed position and within 24 inches of the hinge side of an in-swinging door. Safety glazing is not required if there is an intervening wall or permanent barrier between the door and the glazing. (R308.4.2)



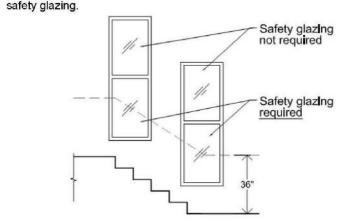
- 3. Glazing in Windows: Safety glazing in windows is required if the individual panel meets all of the following requirements (R308.4.3):
- a. Exposed area of the individual panel is greater than 9 square feet. b. The bottom edge of the glazing is less than 18 inches from the floor.
- c. The top edge of the glazing is more than 36 inches above the floor. d. There is a walking surface within 36 inches, measured horizontally, from the glazing. Exceptions:
 - i. Decorative glazing.
- ii. Where a horizontal rail capable of resisting 50 pounds per linear foot of force without making contact with the glass is installed on the accessible side of the
- glazing 34 to 38 inches above the walking surface. 4. Glazing in Railings and Guards: All glazing in railings and guards, including structural
- baluster panels and nonstructural in-fill panels, is required to be safety glazing. (R308.4.4) 5. Glazing and Wet Surfaces: Glazing in walls, enclosures, or fences around showers, bathtubs, pools, hot tubs, spas, saunas, and steam rooms where the bottom edge of the glazing is less than 60 inches from the standing or walking surface is required to be safety glazing. Safety glazing is not required where the glazing is more than 60 inches, horizontally, from the edge of the water. (R308.4.5)



6. Glazing Adjacent to Bottom Stair Landings: Glazing adjacent to the landing at the bottom of a stairway where the glazing is less than 36 inches above the landing and within a 60-inch horizontal arc from the bottom tread must be safety glazing. (R308.4.7)



- 7. Glazing Adjacent to Stairs and Ramps: Glazing where the bottom edge is less than 36 inches above the plane of the adjacent walking surface of stairways, ramps, and landings between stair flights and ramp runs, must be safety glazing. (R308.4.6)
- Exceptions: 1. Where a horizontal rail capable of resisting 50 pounds per linear foot of force without making contact with the glass is installed on the accessible side of the glazing 34 to 38
- inches above the walking surface. 2. Glazing more than 36 inches horizontally from the walking surface is not required to be



(4) EMERGENCY EGRESS DETAIL (5) SAFETY GLAZING DETAIL

Window Fall Protection

This Tip Sheet reflects code requirements of the 2018 International Residential Code (IRC) and the 2018 International Building Code (IBC) with Washington State Amendments.

Requirements

- U Where the sill height above finished grade on the exterior side of an operable window opening is greater than 72 inches, and the sill height above the finished floor on the interior side of the operable window opening is less than 24 inches (or 36 inches in dwelling units regulated by the IBC) (see Figure 1), then window fall protection shall be provided by one of the following
- (R312.2.1, R312.2.2; IBC 1015.8): 1. Operable windows with openings that, when in their largest opened position, will not allow the passage of a 4-inch sphere (see Figure 2).
- 2. Operable windows that are provided with window fall prevention devices that comply with ASTM F 2090 (see Figure 2).
- 3. Operable windows that are provided with opening control devices that comply with ASTM F 2090 (see Figure 2). (Note: When installed on required emergency egress windows, these devices must not reduce the net clear opening to less than the minimum
- required size or dimensions; see Tip Sheet 10 for more information.) 4. In dwelling units regulated by the IBC where the sill height of an operable window above exterior finished grade is more than 75 feet, provide window fall prevention devices complying with ASTM F 2006 (see Figure 2).

Standards

- ASTM F 2006: Standard Safety Specification for Window Fall Prevention Devices for Non-
- Emergency Escape (Egress) and Rescue (Ingress) Windows □ ASTM F 2090: Specification for Window Fall Prevention Devices with Emergency Escape
- (Egress) Release Mechanisms.

Egress Windows

- □ Egress windows must meet minimum size requirements. Minimum clear opening size of 5.7 square feet (5 square feet on the grade level) with minimum clear height of 24 inches and minimum clear width of 20 inches.
- □ For additional emergency egress window requirements refer to Tip Sheet 10.

Safety Glazing

For additional safety glazing requirements refer to Tip Sheet 19.

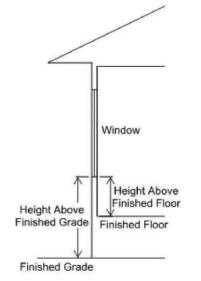


Figure 1: Sill height above finished grade on the exterior side of an operable window opening

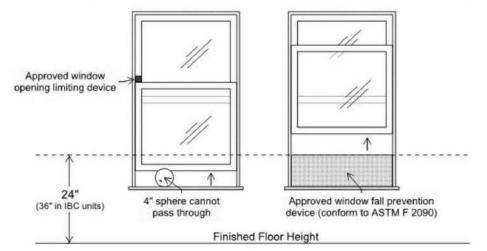


Figure 2: Window fall protection

Table 1: Summary of Requirements

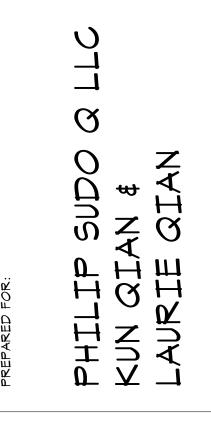
Exterior Sill Height Above Finished Grade	Interior Sill Height Above Finished Floor	Can be used for Egress	Safety Glazing Required	Fall Protection Required
	Greater than 44 inches	No		No
	Between 18 and 44 inches	Yes	-	No
72 inches or less	Sill below 18 inches, top of window above 36 inches, and individual pane of glass is greater than 9 square feet	Yes	Yes	No
	Greater than 44 inches	No	(4) (4)	No
	Between 24 and 44 inches (IRC dwelling units)	Yes	a la	No
	Less than 24 inches (IRC dwelling units)	Yes		Yes
Greater than 72 inches	Between 36 and 44 inches (IBC dwelling units)	Yes		No
	Less than 36 inches (IBC dwelling units)	Yes		Yes
	Sill below 18 inches, top of window above 36 inches, and individual pane of glass is greater than 9 square feet	Yes	Yes	Yes
Greater than 75 feet	Less than 36 inches (IBC dwelling units)	No	-	Yes







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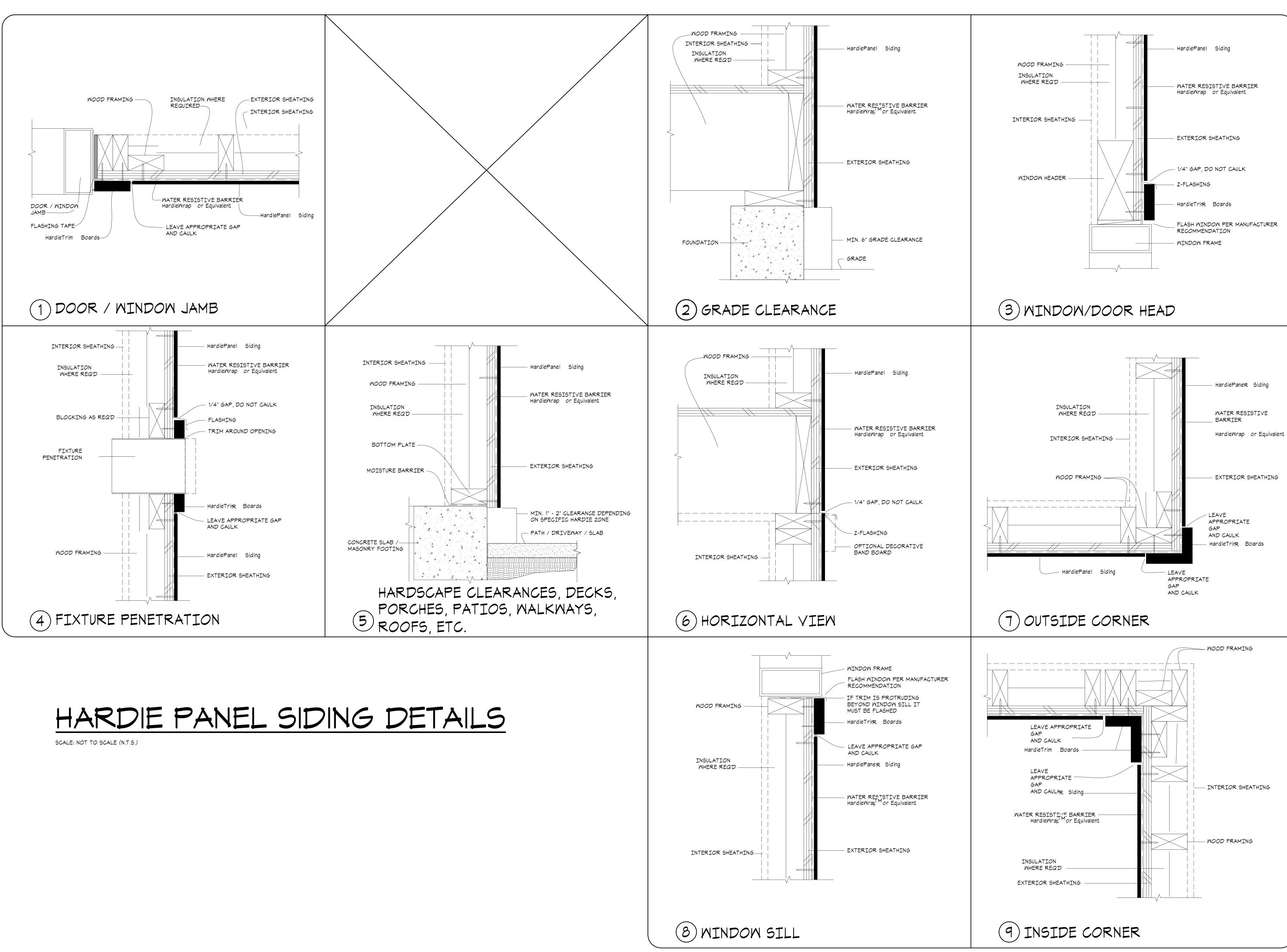
DESIGN BY: DRAFTED BY: SHEET TITLE: PAVEL MELNIK ANNA KONYAKINA

PROJECT DETAILS

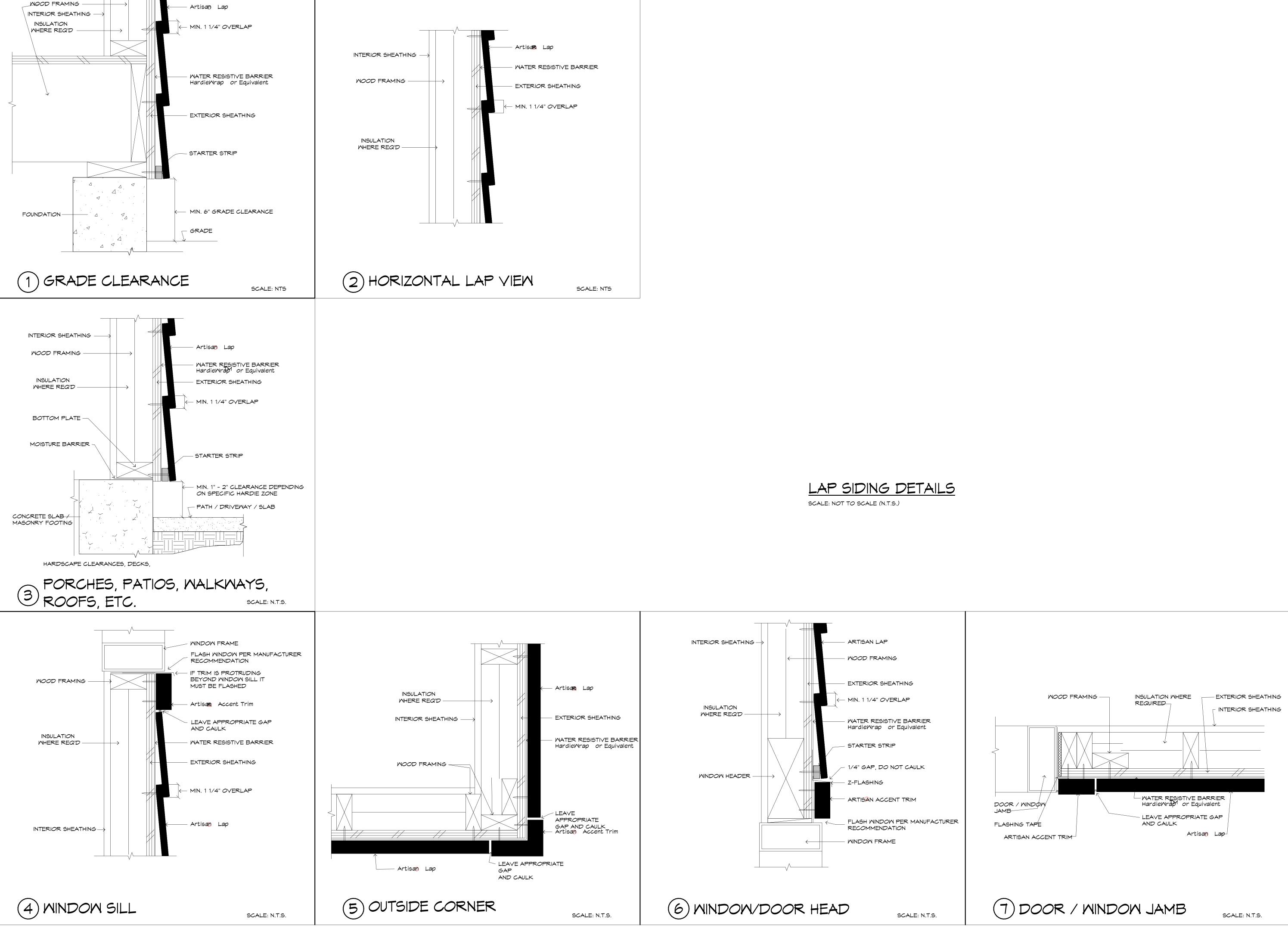
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GENERAL NOTES

THE STRUCTURE HAS BEEN DESIGNED TO RESIST CODE PRESCRIBED VERTICAL AND LATERAL FORCES AFTER THE CONSTRUCTION OF ALL STRUCTURAL ELEMENTS HAS BEEN COMPLETED. STABILITY OF THE STRUCTURE IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS RESPONSIBILITY INCLUDES BUT IS NOT LIMITED TO JOBSITE SAFETY: ERECTION MEANS, AND SEQUENCES: TEMPORARY SHORING, FORMWORK, AND BRACING: USE OF EQUIPMENT AND CONSTRUCTION PROCEDURES.

STANDARDS

ALL METHODS, MATERIALS, AND WORKMANSHIP SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE (IBC) AND SEI/ASCE 1-16 "MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES AS AMENDED BY LOCAL JURISDICTION

PROJECT LOCATION:

GPS LOCATION: 47.5876405 LAT., -122.1725013 LONGIT. SITE ADDRESS: 12445 SE 25TH PL, BELLEVUE, WA 98005

STRUCTURAL DESIGN CRITERIA (CH. 16)

LATERAL FORCES:

1. WIND (IBC 1609 & ASCE 28.5.3):	II. SEISMIC (IBC 1613 & ASCE 12.14-12):
IIØ MPH WIND SPEED (ult) 85 MPH WIND SPEED (asd) EXPOSURE - B IMPORTANCE FACTOR IW = 1.0 WIND SPEED UP: KzT=1.60 ANALYSIS: ENCLOSED SIMPLE DIAPHRAGM ps = λ * K _{zT} *Psso	SEISMIC DESIGN CATEGORY - D2 OCCUPANCY RISK - II 2% PE IN 50 YR (2006 LAT-LON) USGS-CD: 02 SEC. (S5) 1.36g 1.0 SEC. (S1) 0.474g BASIC SEISMIC FORCE-FORCE RESISTING SYSTEM LIGHT-FRAME (WOOD) SHEATHED DESIGN BASE SHEAR: 14.66K R = 6.5 F = 1.1 (2 STORY) ANALYSIS: SIMPLIFIED DESIGN PROCEDURE V = F*SDS + W R

VERTICAL FORCES - GRAVITY (IBC 1607 & TABLE 1607.1)

VERTICAL LOADS:	DEAD LOAD	LIVE LOAD
ROOF	ACTUAL	25 PSF SNOW (OR PER LOCAL JURISDICTION)
FLOOR	ACTUAL	40 PSF
GARAGE	ACTUAL	50 PSF (or 3000* WHEEL LOAD)
DECK	ACTUAL	60 PSF

SOILS AND FOUNDATION DESIGN CRITERIA (IBC CH. 18):

SUBSURFACE INVESTIGATION SHALL BE REQUIRED PER 1803.2: FOUNDATION DESIGN SHALL BE BASED IN THE ABSENCE OF A SOILS REPORT, THE PRESUMPTIVE LOAD BEARING VALUES DETERMINED BY LOCAL JURISDICTION OR PER IBC TABLE 1806.2 SHALL BE USED:

1. SOIL BEARING PRESSURE

1.	SOIL BEARING PRESSURE	1500 PSF
2.	ACTIVE PRESSURE - RESTRAINED	50 PCF
3.	ACTIVE PRESSURE - UNRESTRAINED	35 PCF
4.	PASSIVE RESISTANCE	300 PCF
5.	COEFFICIENT OF FRICTION	Ø.4Ø
6.	LOCAL FROST DEPTH	12 INCH
٦.	TRAFFIC SURCHARGE	70 PSF
8.	SEISMIC SURCHARGE	6H PSF

ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED EARTH OR COMPACTED "STRUCTURAL BACKFILL". AREAS OVER EXCAVATED SHALL BE BACKFILLED WITH LEAN CONCRETE (f'c = 2000 PSI) OR STRUCTURAL BACK FILL.

CONCRETE (IBC CH. 19 & ACI 318-14)

CONCRETE: SHALL BE MADE WITH PORTLAND CEMENT ASTM C-150 TYPE II OR TYPE I AND SHALL BE READY-MIXED PER ASTM C-94, MAXIMUM SLUMP 5". MINIMUM CEMENT CONTENT 51/2 SACKS PER YARD PROVIDE 5%-1% AIR-ENTRAINED CONCRETE FOR CONCRETE (f'c = 3000 PSI) EXPOSED TO WEATHER.

MINIMUM SPECIFIED COMPRESSIVE STRENGTH (f'C AT 28 DAYS) ACI 318-14

USE OR LOCATION OF CONCRETE CONSTRUCTION:	f'c (PSI)	SPECIAL INSPECTION & TESTING REQUIRED
FOOTING PADS & FOUNDATIONS NOT EXPOSED TO WEATHER	3 <i>,000</i>	NOT REQUIRED
PORCHES, PATIOS, DRIVEWAYS, AND GARAGE SLAB	3,000	NOT REQUIRED
FOUNDATION STEM WALLS AND INTERIOR SLABS ON GRADE	3 <i>,000</i>	NOT REQUIRED

CONTRACTOR SHALL HAVE AVAILABLE ON SITE A CONCRETE BATCH TICKET OR RECEIPT OF DELIVERY FOR MIX OF 3000 PSI OR GREATER FOR BUILDING INSPECTOR VERIFICATION IF REQUESTED.

REINFORCING STEEL: REINFORCEMENT SHALL CONFORM TO ASTM A-615, "DEFORMED AND PLAIN BILLET STEEL BARS FOR REINFORCING STEEL'. BARS SHALL BE GRADE 60 EXCEPT THAT NO. 3 AND 4 MAY BE GRADE 40. BARS SHALL BE DEFORMED. SPLICE SHALL BE 24 BAR DIAMETERS OR 18" MINIMUM. PROVIDE CORNER BARS FOR ALL HORIZONTAL BARS IN WALLS AND FOOTINGS AT INTERSECTIONS. MILL TICKET FOR REINFORCING BARS SHALL BE MADE AVAILABLE TO THE BUILDING INSPECTOR AND ENGINEER OF RECORD FOR VERIFICATION IF REQUESTED.

WIRE FABRIC SHALL CONFORM TO ANSI/ASTM A-185, STEEL WELDED WIRE FABRIC PLAIN FOR CONCRETE PLACEMENT.

CONCRETE ACCESSORIES:

ANCHOR BOLTS, BARS AND RODS SHALL CONFORM TO ASTM A-307' "LOW CARBON STEEL EXTERNALLY AND INTERNALLY THREADED FASTENERS".

CAST-IN-PLACE COLD-FORM STEEL CONNECTORS IN CONCRETE FOR LIGHT FRAME CONSTRUCTION SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE AS SPECIFIED IN THE CURRENT SIMPSON STRONG-TIE ICC ES OR IAPMO ES REPORT. ALTERNATE PRODUCTS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND WRITTEN APPROVAL. REQUEST FOR SUBSTITUTION WILL ONLY BE APPROVED WITH CURRENT ICC ES OR IAPMO ES REPORT AND A LIST STATING THE PROPOSED ITEM SUBSTITUTION WITH EQUIVALENT OR GREATER LOAD CAPACITY. IN ADDITION, SUBSTITUTIONS WILL BE REQUIRED TO COMPLY WITH THE CURRENT ICC ACCEPTANCE CRITERIA, AC398 (CAST-IN-PLACE COLD-FORMED STEEL CONNECTORS IN CONCRETE FOR LIGHT FRAME CONSTRUCTION)

PROPRIETARY CAST-IN-PLACE ANCHOR BOLTS SHALL BE 'SB' AND 'SSTB' ANCHOR BOLTS MANUFACTURED BY SIMPSON STRONG-TIE AS SPECIFIED ON THEIR LATEST CATALOG AND ICC ESR-2611. SUBSTITUTION PROPOSED BY THE CONTRACTOR SHALL BE SUBMITTED WITH A CURRENT ICC ES REPORT TO THE STRUCTURAL ENGINEER FOR REVIEW AND WRITTEN APPROVAL. IN ADDITION, SUBSTITUTIONS WILL BE REQUIRED TO COMPLY WITH THE CURRENT ICC ACCEPTANCE CRITERIA, AC399 (CAST-IN-PLACE PROPRIETARY BOLTS IN CONCRETE)

EXPANSION ANCHORS (WEDGE ANCHORS) SHALL BE AS NOTED ON PLANS, INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS. WHEN NOTED ON CONSTRUCTION DOCUMENTS, INSTALLATION SHALL BE SPECIAL INSPECTED.

NON-SHRINK GROUT: MASTER BUILDERS "MASTERFLOW 928 OR PRE-APPROVED EQUAL GROUT MAY BE PLACED FROM A 25 SECOND FLOW TO A STIFF PACKING CONSISTENCY. FILL OR PACK ENTIRE SPACE UNDER PLATES OR SHAPES. NO GROUTING SHALL BE DONE BELOW 40 DEGREES F.

EPOXY GROUT: SIMPSON STRONG-TIE 'SET', COVERT OPERATIONS 'CIA' GEL, OR PRE-APPROVED EQUAL. TWO PART LOW SAG EPOXY. USE EQUIPMENT, WHICH SHALL ACCURATELY MIX AND DISPENSE THE COMPONENTS. HOLES SHALL BE DRILLED AT THE DIAMETER AS SPECIFIED BY THE MANUFACTURER BASED ON THE DOWEL BAR OR THREADED ROD DIAMETER. HOLES SHALL BE DRY AND CLEANED WITH PRESSURIZED AIR JUST PRIOR TO INSTALLING GROUT. THE REBAR DOWEL OR THREADED ROD SHALL BE CLEAN AND INSTALLED SLOWLY, AND SHALL BE ROTATED AS IT IS PUSHED INTO THE HOLE. COLD WEATHER GROUTING SHALL BE DONE WITH PROPER GROUT FORMULA. EMBED (9) DIAMETERS MINIMUM UNLESS NOTED OTHERWISE IN PLANS AND DETAILS. GROUTING OPERATION SHALL BE INSPECTED BY AN AGENT AS RECOMMENDED BY THE OWNER.

GENERAL REQUIREMENTS: PROVIDE MINIMUM NAILING PER 2018 IBC TABLE 2304.10.1 OR MORE, AS OTHERWISE SHOWN. PRESSURE TREAT ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY. PROVIDE CUT WASHERS WHERE BOLT HEADS, NUTS AND LAG SCREW HEADS BEAR ON WOOD. DO NOT NOTCH OR DRILL STRUCTURAL MEMBERS, EXCEPT AS ALLOWED BY IBC SECTIONS 2308.4.2.4 AND 2308.7.4 OR AS APPROVED PRIOR TO INSTALLATION.

WOOD SHEATHING: SHALL BE STRUCTURAL * PLYWOOD OR ORIENTED STRAND BOARD. PLYWOOD SHALL BE GROUP 1 OR GROUP 2 SPECIES, C-D GRADE EXPOSURE 1 CONFORMING TO PS 1-83. EACH PANEL SHALL BEAR THE GRADE TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION. ORIENTED STRAND BOARD (03B) SHALL BE APA RATED STRUCT .- I FOR ROOF AND WALLS AND APA RATED STURDY-I-FLOOR FOR FLOORS. EACH PANEL SHALL BE CLASSIFIED AS EXPOSURE 1 AND SHALL BEAR THE GRADE TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION (APA).

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	SPECIES AND GRADE - BASE DESIGN VALUES (PSI) per NDS								
<u> </u>				1	r	£	ft	E	
	STRUCTURAL ELEMENT	SPECIES/GRADE	^f bx	f _{vx}	fc⊥	fc	't	–	
1.	6x BEAMS AND HEADERS	DF NO. 2	875	סרו	625	600	425	1300000	
2.	4x BEAMS AND HEADERS	DF NO. 2	900	18Ø	625	1350	525	1600000	
3.	2x JOIST	HF NO. 2	85Ø	150	4Ø5	1300	525	1300000	
4.	6x POST	DF NO. 1	1200	Ø٦	625	1000	825	1600000	
5.	4X POST	DF NO. 2	85Ø	18Ø	625	1400	500	1600000	
6.	51/8×6 GLU-LAM POST	24F-V4, 24F-V8	2400	265	650	1650	1100	1700000	
٦.	GLU-LAM BEAM	24F-V4, 24F-V8	2400	265	65Ø	1650	1100	1800000	
8.	$3\frac{1}{2}$ x OR $5\frac{1}{4}$ x PSL BEAM	PARALLAM PSL	2900	290	75Ø	2900	-	20000000	
9.	$3\frac{1}{2}$ x OR $5\frac{1}{4}$ x LVL BEAM	MICROLLAM LVL	2600	285	75Ø	251Ø	-	1900000	
10.	$3\frac{1}{2}$ x OR $5\frac{1}{4}$ x LSL BEAM	TIMBERSTRAND LSL	1700	400	680	1400	-	1300000	
11.	2x WALL FRAMING;	HF NO. 2	85Ø	150	4Ø5	1300	525	1300000	
12.	2x WALL FRAMING > 15FT	DF NO. 1	1000	18Ø	625	1500	675	1700000	

EXTERIOR GLUE.

I-JOISTS: SHALL BE TRUS JOIST MACMILLAN, OR APPROVED EQUAL, AS INDICATED ON THE STRUCTURAL DRAWINGS. I-JOISTS SHALL BE MANUFACTURED IN ACCORDANCE WITH A CURRENT ICBO REPORT AND APPROVED SHOP AND INSTALLATION DRAWINGS.

WOOD CONSTRUCTION CONNECTORS: SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE AS SPECIFIED IN THEIR LATEST CATALOG. PROVIDE MAXIMUM SIZE AND QUANTITY OF NAILS, BOLTS, OR SCREWS SPECIFIED ON CONNECTOR HARDWARE. CONTRACTOR'S PROPOSED SUBSTITUTION OF OTHER MANUFACTURE'S CONNECTORS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND WRITTEN APPROVAL PRIOR TO ORDERING. REQUESTS FOR SUBSTITUTION SHALL INCLUDE CURRENT ICC AND/OR IAPMO ES REPORTS AND A LIST STATING THE PROPOSED ITEM-FOR-ITEM SUBSTITUTION HAS AN EQUIVALENT OR GREATER LOAD CAPACITY. IN ADDITION, SUBSTITUTIONS SHALL COMPLY WITH CURRENT ICC ACCEPTANCE CRITERIA ACI3 AND/OR IAPMO EVALUATION CRITERIA @02-2001 FOR JOIGT HANGERS AND SIMILAR DEVICES AND ICC AC 155 FOR HOLDOWNS AND TENSION TIES. BOLTS IN WOOD CONNECTORS SHALL CONFORM TO ASTM A-301, GRADE A.

STRUCTURAL WOOD SCREWS: WHERE SPECIFIED OR REQUIRED BY SPECIFIC HARDWARE, SCREWS SHALL BE 'SDS' STRONG-DRIVE SCREWS MANUFACTURED BY SIMPSON STRONG-TIE AS SPECIFIED IN THEIR LATEST CATALOG AND ICC ESR-2236. SUBSTITUTION PROPOSED BY THE CONTRACTOR SHALL BE SUBMITTED WITH A CURRENT ICC ES REPORT TO THE STRUCTURAL ENGINEER FOR REVIEW AND WRITTEN APPROVAL. IN ADDITION, SUBSTITUTIONS SHALL COMPLY WITH CURRENT ICC ACCEPTANCE CRITERIA AC233 (ALTERNATE DOWEL TYPE THREADED FASTENERS)

REQUIREMENTS FOR FASTENERS IN TREATED MATERIAL: ALL HARDWARE AND FASTENERS IN PRESSURE TREATED MATERIAL SHALL BE SIMPSON G185 HDG (HOT DIPPED GALVANIZED) OR 65T300 STAINLESS STEEL CONNECTORS OR EQUIVALENT.

HOT DIPPED GALVANIZED FASTENERS SHALL BE USED WITH G185 Z-MAX AND HDG CONNECTORS AND STAINLESS STEEL FASTENERS SHALL BE USED WITH SST300 CONNECTORS. DO NOT USE STAINLESS STEEL FASTENERS WITH GI85 Z-MAX OR HDG CONNECTORS.

HOT DIPPED OR STAINLESS STEEL NAILS MUST BE USED WHEN FASTENING SHEATHING, STUDS, AND JOIST INTO TREATED MUDSILL. HOT DIPPED GALVANIZED OR STAINLESS STEEL FASTERES SHALL BE USED WHEN FASTENING DECKING TO TREATED MEMBERS.

WOOD TRUSSES (IBC 2303.4) SHALL BE:

- NOTED ON FRAMING PLANS.
- BOTTOM CHORD SHALL BE LESS THAN 42" HIGH AND 24" WIDE.
- REMAIN ON THE JOB SITE FOR INSPECTION.
- APPROVAL OF TRUSS DESIGNER.
- ACCORDANCE WITH TPI 1.
- SAFETY INFORMATION.
- 24**"** O.C.
- 8. PROVIDE STC CLIPS AT ALL TRUSSES OVER NON-BEARING WALLS.

OF INSPECTION, FOR THE INSPECTOR'S USE AND REFERENCE.

INSPECTION: (IBC CH. 1 SECT. 110) CONSTRUCTION SHALL BE SUBJECT TO INSPECTION BY THE BUILDING OFFICIAL AND SUCH CONSTRUCTION OR WORK SHALL REMAIN ACCESSIBLE AND EXPOSED FOR CONTINUING INSPECTION UNTIL APPROVED. THE OWNER OR CONTRACTOR SHALL NOTIFY THE BUILDING OFFICIAL TO MAKE THE INSPECTIONS SET FORTH IN SECTIONS 110.3.1 THROUGH 110.3.10. INSPECTION REQUESTS SHALL BE THE RESPONSIBILITY OF THE BUILDING PERMIT HOLDER. WORK SHALL NOT PROCEED BEYOND THE POINT INDICATED IN EACH SUCCESSIVE INSPECTION WITHOUT OBTAINING THE APPROVAL OF THE BUILDING OFFICIAL. THE BUILDING OFFICIAL SHALL INDICATE ANY OF CONSTRUCTION THAT IS SATISFACTORY AS COMPLETED, OR NOTIFY THE CONTRACTOR ANY PORTIONS THAT ARE NOT IN COMPLIANCE TO THIS CODE. ANY PORTIONS THAT DO NOT COMPLY SHALL BE CORRECTED BY THE CONTRACTOR AND SUCH PORTION(S) SHALL NOT BE COVERED OR CONCEALED UNTIL AUTHORIZED OR SIGNED OFF BY THE BUILDING OFFICIAL.

<u>STANDARDS:</u> CONFORM TO WEST COAST LUMBER INSPECTION BUREAU (WCLIB), OR WESTERN WOOD PRODUCTS ASSOCIATION (WWPA). EACH PIECE SHALL BEAR THE SCLIB OR WWPA GRADE TRADE-

GLUE-LAMINATED MEMBERS: CONFORM TO ANGI/AITC A190.1. MEMBERS SHALL BE COMBINATION 24F-V4 DOUGLAS FIR FOR SIMPLE SPANS, 24F-V8 DOUGLAS FIR FOR CANTILEVERED SPANS WITH

ALL ANCHOR BOLTS, WASHERS, AND NUTS SHALL BE HOT DIPPED GALVANIZED.

DESIGNED PER IBC 2303.4.1.1 TO CARRY LOADS LISTED IN THE DESIGN CRITERION AND ANY ADDITIONAL POINT LOADS, UNIFORM LOADS, OR DRAG STRUT FORCES

2. NON-ATTIC STORAGE TRUSSES SHALL BE DESIGNED WITH A LIVE LOAD OF 20 PSF LOCATED IN THE PLANE OF THE TRUSS. THE MAXIMUM STORAGE SPACE ABOVE THE

3. TRUGG DESIGN DRAWINGS AND DOCUMENT SUBMITTAL (2303.4.1.1) SHALL INCLUDE STRESS ANALYSIS AND PICTORIAL DEPICTION OF EACH TRUSS TYPE FOR THE PROJECT AND INCLUDING A TRUSS PLACEMENT DIAGRAM (2303.4.2). TRUSS INSTALLATION DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A LICENSED ENGINEER IN THE STATE OF WASHINGTON. APPROVED TRUSS DOCUMENTS SHALL

4. ALTERATIONS (2303.4.5): TRUSS MEMBERS SHALL NOT BE NOTCHED, DRILLED, SPLICED, OR OTHERWISE ALTERED IN ANY WAY WITHOUT WRITTEN APPROVAL OF THE TRUGG DESIGNER. ALTERATIONS RESULTING IN THE ADDITION OF LOADS TO ANY MEMBER (E.G. HVAC EQUIPMENT, PIPING, ETC.) SHALL NOT BE PERMITTED WITHOUT

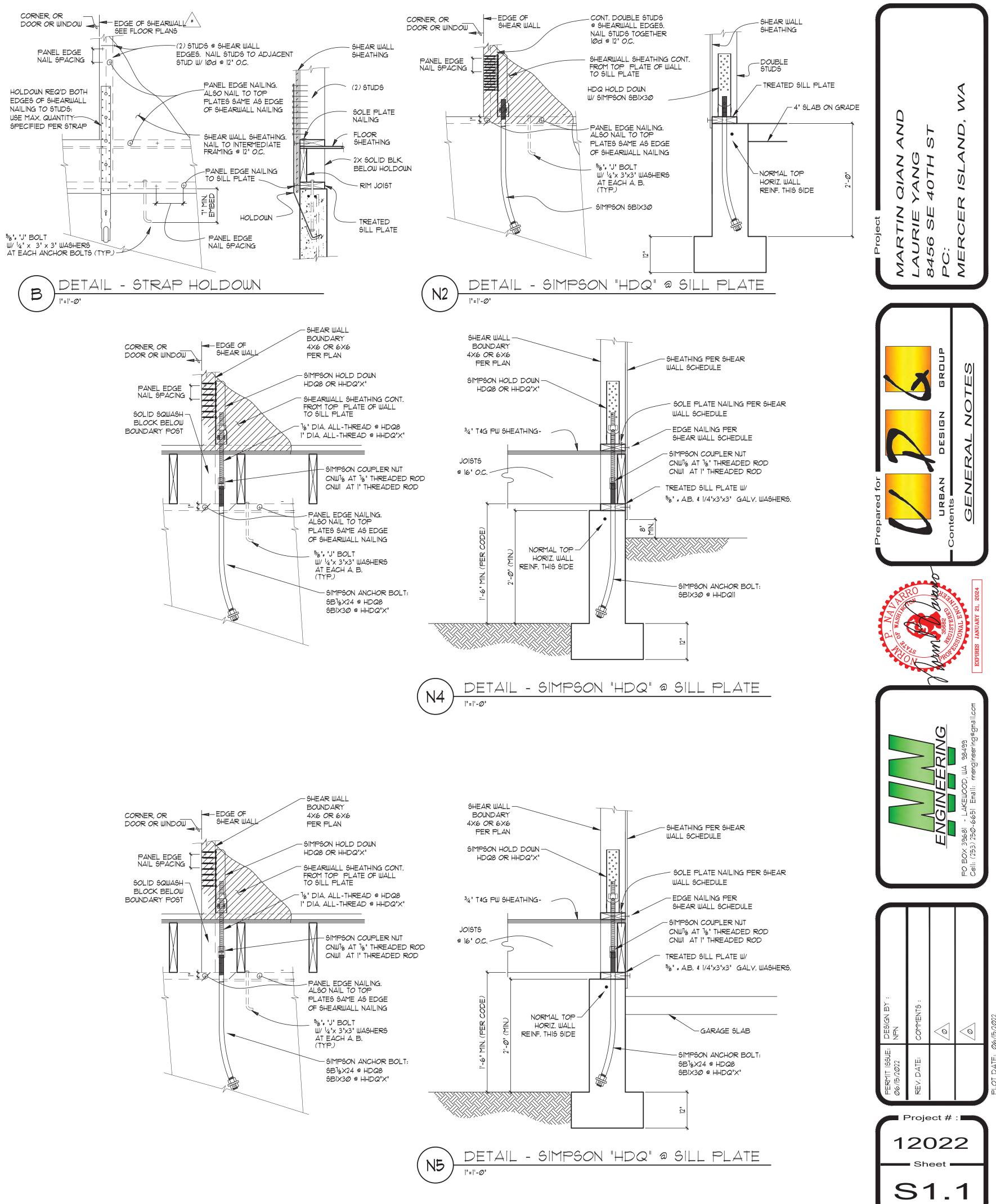
5. TPI 1 SPECIFICATIONS: THE DESIGN, MANUFACTURE, FABRICATION, AND QUALITY ASSURANCE OF METAL-PLATE-CONNECTED WOOD TRUSSES SHALL BE IN

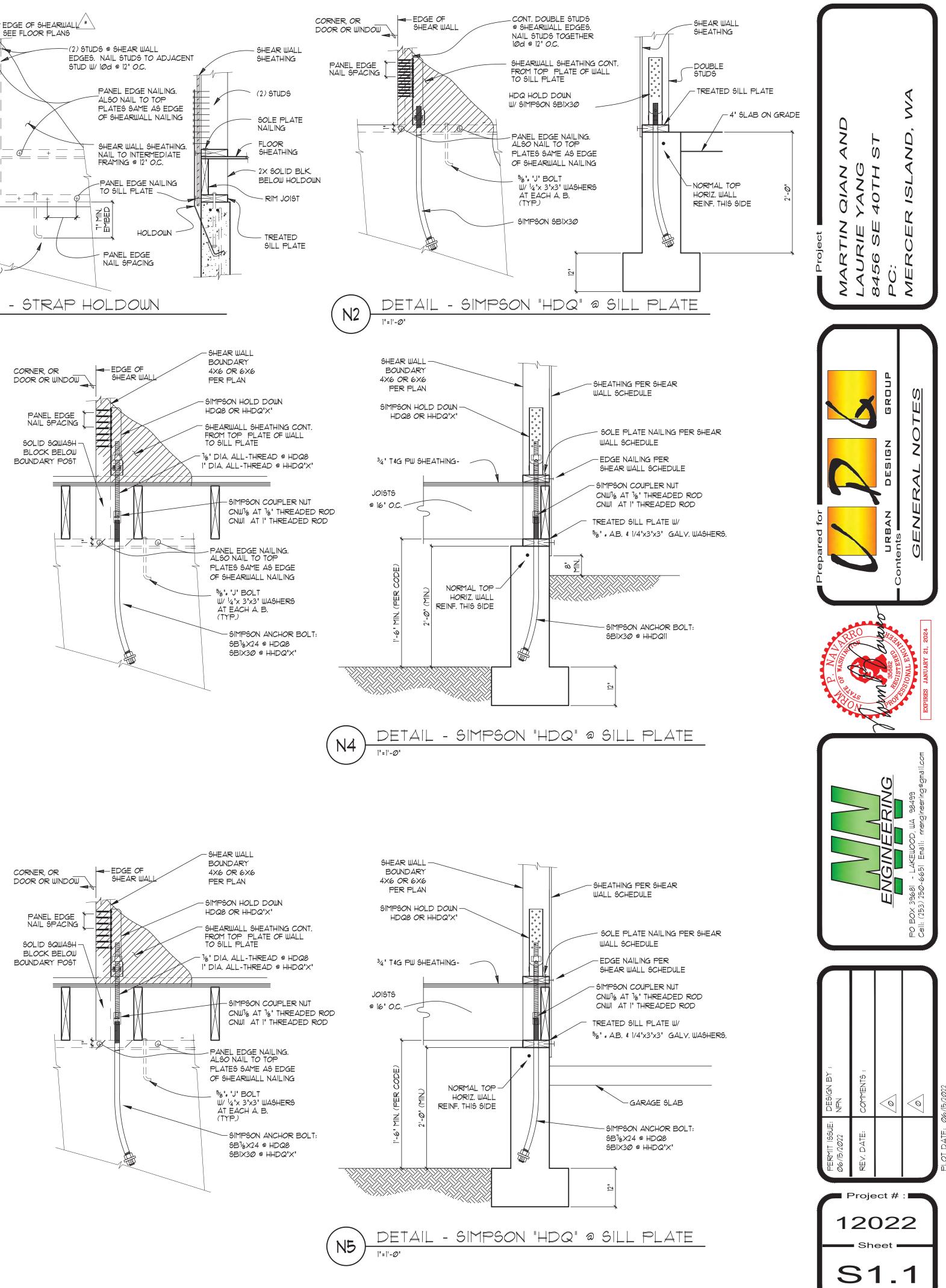
6. THE TRUSS TEMPORARY AND PERMANENT BRACING SHALL BE PER IRC SECTIONS 502.11.2 AND 802.10.3 AS WELL AS TRUGS PLATE INSTITUTES' BUILDING COMPONENT

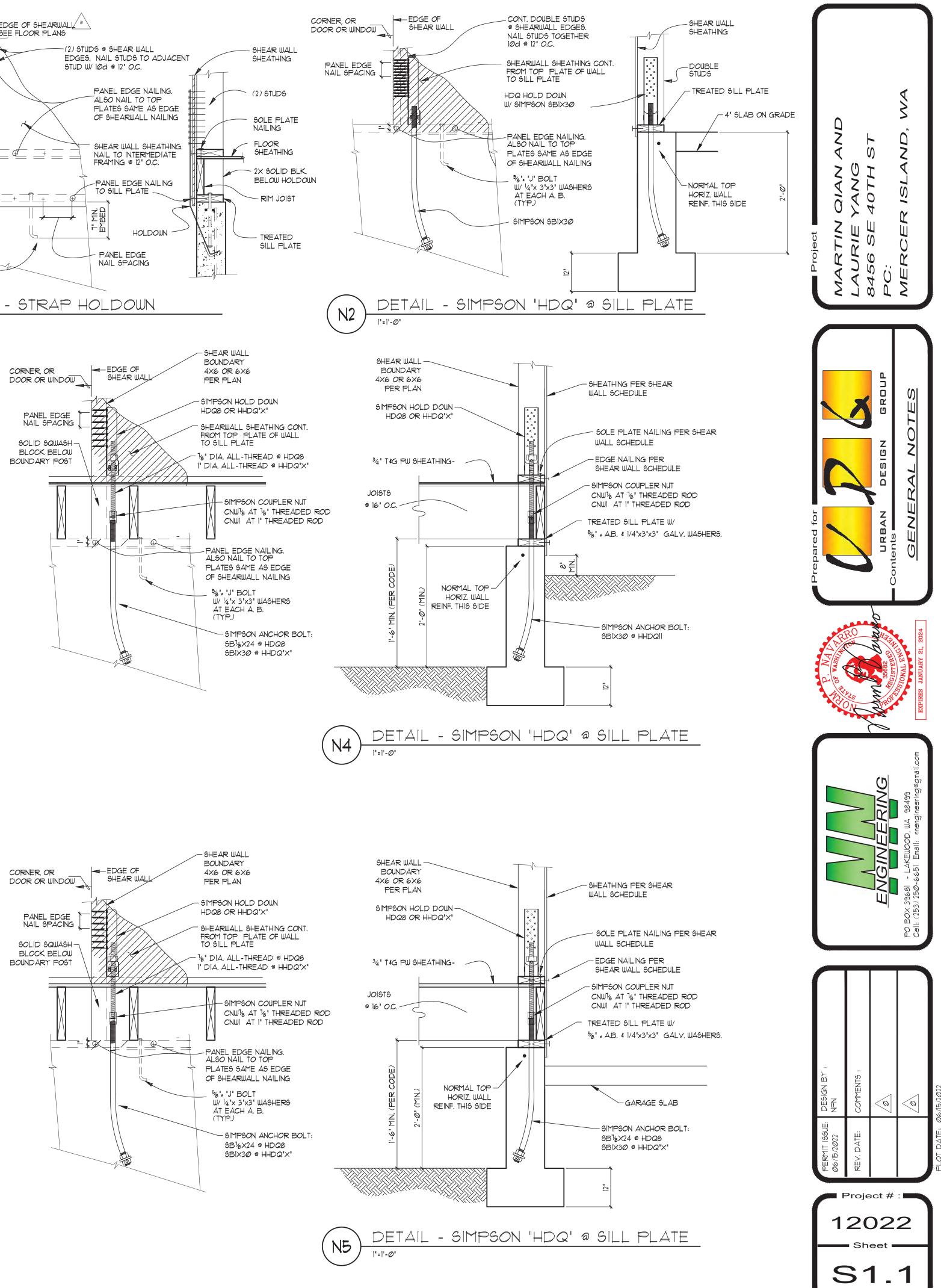
1. UNLESS NOTED OTHERWISE ON PLANS, ALL TRUSSES SHALL HAVE SIMPSON H-1 CLIPS AT EXTERIOR BEARING WALLS. AT GABLE END TRUSSES, PROVIDE SIMPSON A35 AT

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

MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON THE JOB SITE AT THE TIME







SHE	EARWA	L SCHEDU		(1)(2)(4)										
WALL Type	(5) SHTG.	(3) EDGE NAILING LENGTH x GAGE)	(6) FIELD NAILING LENGTH × GAGE)	5%" DIA. A.B. SPACING SOLE PLATE NAILING (G.A.)	ABUTTING VERT. PW EDGES	ABUTTING HORIZ, PW EDGES	(9) SOLE PL	MUD SILL	BOUNDARY FRAMING (VERT.)	HOLDOWN TYPES	HOLDOWN BOLTS	REMARKS / DETAILS	SHEAR (PLF)	UPLIFT FORCE
	¹⁵ ⁄32" PW	8d @ 3" O <u>.</u> C. (2-½" × O.131")	8d ⊛ 12" O.C. (2-1⁄2" × 0.131")	5%" A.B. @ 36" O.C. 16d @ 8" O.C. (3-½" × Ø.135")	2×6	2×6	2×6	2x6	4×6	HDQ8	6B7/8X24	N5 SI.1	287 plf	4.1 k
2(8)	¹⁵ ⁄32" PW	8d @ 3" O.C. (2-1⁄2" × O.131")	8d @ 12" O.C. (2-1/2" × 0.131")	⁵ %" A.B. ∞ 24" O.C. 16d ∞ 8" O.C. (3-½" × Ø.135")	2×6	2×6	2x6	2x6	2-2×6	STHD14RJ		B Sl.l	219 pif	2.4 K
3	¹⁵ ⁄ ₃₂ " OSB	8d @ 4" O.C. (2-1⁄2" × O.131")	8d @ 12" O.C. (2-1/2" × 0.131")	5%" A.B. @ 36" O.C. 16d @ 8" O.C. (3-½" × Ø.135")	2×6	2×6	2×6	2x6	2-2×6	STHD14RJ		B Sl.l	274 plf	3.5 k
4	¹⁵ ⁄ ₃₂ " <i>0</i> 68	8d ∞ 6" O.C. (2-½" × O. 3 ")	8d @ 12" O.C. (2-½" × 0.131")	5%" A.B. @ 24" O.C. 16d @ 4" O.C. (3-½" × Ø.135")	3х6	3х6	3х6	3x6	4×6	HHDQII	9BIX30	N4 S1.1	487 plf	5.6 K
ØÌ	¹⁵ ⁄ ₃₂ " <i>0</i> 98	8d @ 6" O.C. (2-1/2" × 0.131")	8d @ 12" O.C. (2-1/2" × 0.131")	⁵ %" A.B. @ 48" O.C. 16d @ 16" O.C. (3-½" × Ø.135")	2x6	2×6	2x6	2x6		NONE			223 plf	Ø.Ø K
5	15/32" PW	1Ød @ 3' O.C. (3' X O.[3 ')	1Ød @ 12" O.C. (3" × O.131")	6d @ 4" O.C. (3-½" × Ø.135")	2×6	2×6	2×6	2x6	2-2×6			C J 53 53	4Ø1 plf	4.1 K
6	15/32" PW	8d @ 3" O.C. (2-½" × 0.131")	8d @ 12" O.C. (2-½" × 0.131")	5%" A.B. @ 36" O.C. 6d @ 8" O.C. (3-½" × Ø.135")	2×6	2×6	2×6	2x6	2-2×6			C J 53 53	343 plf	3.4 k
<u> </u>	15/32" PW	8d @ 4" O.C. (2-1⁄2" × 0.131")	8d @ 12" O.C. (2-1/2" × 0.131")	5%" A.B. @ 36" O.C. 16d @ 8" O.C. (3-½" × Ø.135")	2×6	2×6	2×6	2x6	2-2×6			C J 53 53	243 plf	3.9 K
8	15/32" PW	8d @ 4" O.C. (2-1⁄2" × O.131")	8d @ 12" O.C. (2-1/2" × 0.131")	⁵ ‰" A.B. @ 36" O.C. 16d @ 8" O.C. (3-½" × Ø.135")	2х6	2×6	2×6	2x6	2-2×6			C J 53 53	150 plf	Ø.5 K
	15/32" PW	8d @ 4" O.C. (2-1⁄2" × O.131")	8d ∞ 12" O.C. (2-1/2" × 0.131")	16d @ 3" O.C. (3-½" × Ø.135")	3х6	Зхб	Зхб		2-2×6	NONE			< 223 plf	0.0 k

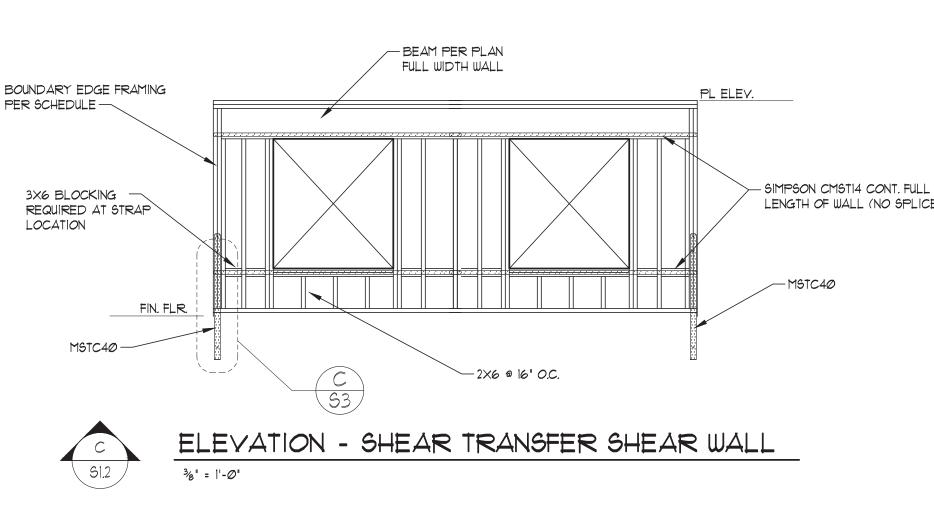
NOTE: FOR ALL OTHER EXTERIOR WALLS NOT SPECIFIED IN SCHEDULE ABOVE, SEE NOTE 2. IN 'SHEAR WALL SCHEDULE NOTES'

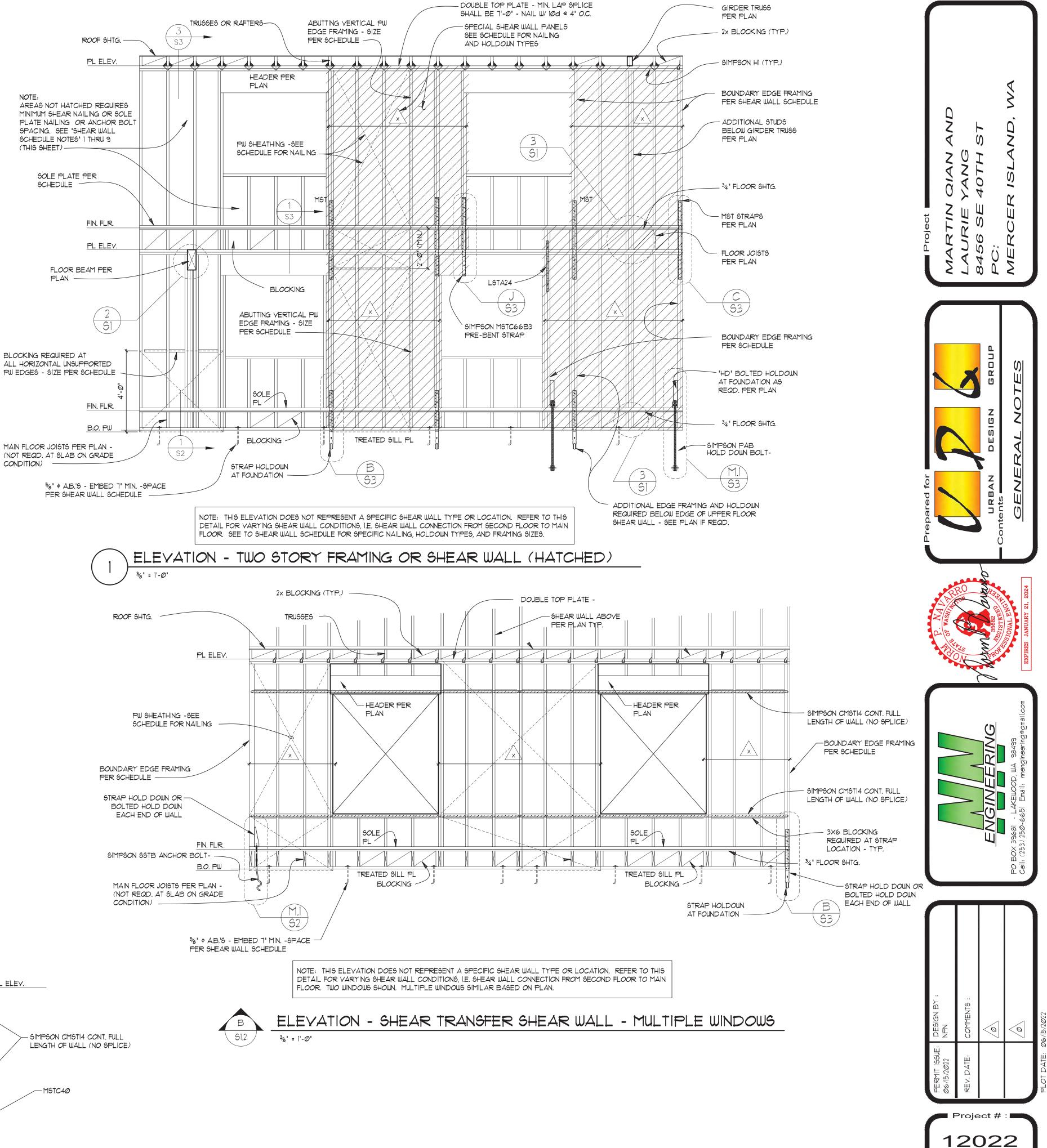
SHEAR WALL SCHEDULE NOTES MAIN FLOOR

- 1. SHEAR WALLS NOTED IN SCHEDULE ARE WALLS WITH ADDITIONAL EDGE NAILING, ABUTTING HORIZONTAL AND VERTICAL EDGE FRAMING, AND ANCHOR BOLT SPACING. FIELD NAIL SIZE SHALL MATCH THE EDGE FRAMING SPECIFIED AND BE SPACED AT 12" O.C. SHEAR NAILING APPLIES TO ALL VERTICAL AND HORIZONTAL ABUTTING SHTG. EDGES, DOUBLE TOP PLATES, AND SOLE PLATES.
- 2. ALL EXTERIOR WALLS NOT SPECIFIED IN SHEAR WALL SCHEDULE, SHALL BE DESIGNATED AS MINIMUM SHEAR PANELS WITH EDGE NAIL SIZE MATCHING SPECIFIED NAILS IN SCHEDULE AND SPACED AT 6" O.C. FIELD NAIL SPACING SHALL BE 12" O.C.
- 3. SHEATHING SHALL BE 1/16' OSB UNLESS SPECIFIED 15/32' STRUCTURAL # IN SCHEDULE. 4. EXTERIOR SHEAR WALL FRAMING SHALL BE 2X6 HEM FIR #2 UNLESS NOTED "DF" (DOUG
- FIR) IN SCHEDULE. FRAMING SHALL BE SPACED AT 16" O.C.
- 5. INTERIOR SHEAR WALL FRAMING SHALL BE 2×4 (OR 2×6 PER SCHEDULE) HEM FIR #2 SPACED AT 16" O.C.
- 6. EDGE FRAMING OR END OF SHEAR WALLS SHALL BE FRAMED WITH: (2) MINIMUM 2X6 (2×6 WALLS), (2) 2×4 (2×4 WALLS), OR SOLID SAWN POSTS AS NOTED IN THE SCHEDULE.
- 1. BLOCK ALL UNSUPPORTED HORIZONTAL SHEATHING EDGES WITH 2X6 OR 3X6 AS NOTED IN SCHEDULE. ALL VERTICAL ABUTTING SHEATHING EDGES SHALL BE 2×6 FOR EXTERIOR WALLS OR 2X4 FOR INTERIOR WALLS OR AS NOTED IN SCHEDULE.
- 8. SOLE PLATE SHALL BE 2X6 FOR EXTERIOR WALLS . SOLE PLATE SHALL BE 2X4 OR 2×6 FOR INTERIOR WALLS. SOLE PLATE NAILING SHALL BE 16d SPACED 12" O.C (MAX. OR LESS AS SPECIFIED IN SCHEDULE)
- 9. MUD SILLS SHALL BE 2×6 HF #2 P.T. CONTINUOUS AROUND PERIMETER OF FOUNDATION WALL.
- 10. FOUNDATION ANCHOR SHALL BE % DIA. \times 10" A.B. FOR 2×6 MUD SILL OR % DIA. \times 12" A.B. FOR 3X6 MUD SILLS. IF NOT SPECIFIED BY THE SHEAR WALL SCHEDULE, ANCHOR BOLTS SHALL BE SPACED NO MORE THAN 48' O.C. ALL ANCHOR BOLTS SHALL BE EMBEDDED IN CONCRETE 7' MIN, PROVIDE (2) MINIMUM A.B.'S FOR EACH MUD SILL SECTION.
- 11. PROVIDE 3'X3'X4" GALV. WASHERS FOR EACH ANCHOR BOLT. THE CONTRACTOR MAY USE 3"X3"X1/4" GALY. WASHERS WITH DIAGONAL SLOTTED HOLES IF STANDARD CUT WASHERS ARE USED AND PLACED ABOVE THE SLOTTED PLATE WASHERS.

SHEAR WALL SCHEDULE NOTES (UPPER FLOOR)

- SHEAR WALLS NOTED IN SCHEDULE ARE WALLS WITH ADDITIONAL EDGE NAILING, ABUTTING HORIZONTAL AND VERTICAL EDGE FRAMING, AND ANCHOR BOLT SPACING. FIELD NAIL SIZE SHALL MATCH THE EDGE FRAMING SPECIFIED AND BE SPACED AT 12" O.C. SHEAR NAILING APPLIES TO ALL VERTICAL AND HORIZONTAL ABUTTING SHTG. EDGES, DOUBLE TOP PLATES, AND SOLE PLATES.
- 2. ALL EXTERIOR WALLS NOT SPECIFIED IN SHEAR WALL SCHEDULE, SHALL BE DESIGNATED AS MINIMUM SHEAR PANELS WITH EDGE NAIL SIZE MATCHING SPECIFIED NAILS IN SCHEDULE AND SPACED AT 6" O.C. FIELD NAIL SPACING SHALL BE 12" O.C.
- 3. SHEATHING SHALL BE 1/16" OSB UNLESS SPECIFIED 15/32" STRUCTURAL # IN SCHEDULE.
- 4. EXTERIOR SHEAR WALL FRAMING SHALL BE 2X6 HEM FIR #2 UNLESS NOTED "DF" (DOUG FIR) IN SCHEDULE. FRAMING SHALL BE SPACED AT 16" O.C.
- 5. INTERIOR SHEAR WALL FRAMING SHALL BE 2X4 (OR 2X6 PER SCHEDULE) HEM FIR *2 SPACED AT 16" O.C.
- 6. EDGE FRAMING OR END OF SHEAR WALLS SHALL BE FRAMED WITH: (2) MINIMUM 2×6 (2×6 WALLS), (2) 2×4 (2×4 WALLS), OR SOLID SAWN POSTS AS NOTED IN THE SCHEDULE.
- 1. BLOCK ALL UNSUPPORTED HORIZONTAL SHEATHING EDGES WITH 2×6 OR 3×6 AS NOTED IN SCHEDULE. ALL VERTICAL ABUTTING SHEATHING EDGES SHALL BE 2×6 FOR EXTERIOR WALLS OR 2X4 FOR INTERIOR WALLS OR AS NOTED IN SCHEDULE.
- 8. SOLE PLATE SHALL BE 2X6 FOR EXTERIOR WALLS . SOLE PLATE SHALL BE 2X4 OR 2X6 FOR INTERIOR WALLS. SOLE PLATE NAILING SHALL BE 16d SPACED 12" O.C (MAX. OR LESS AS SPECIFIED IN SCHEDULE)

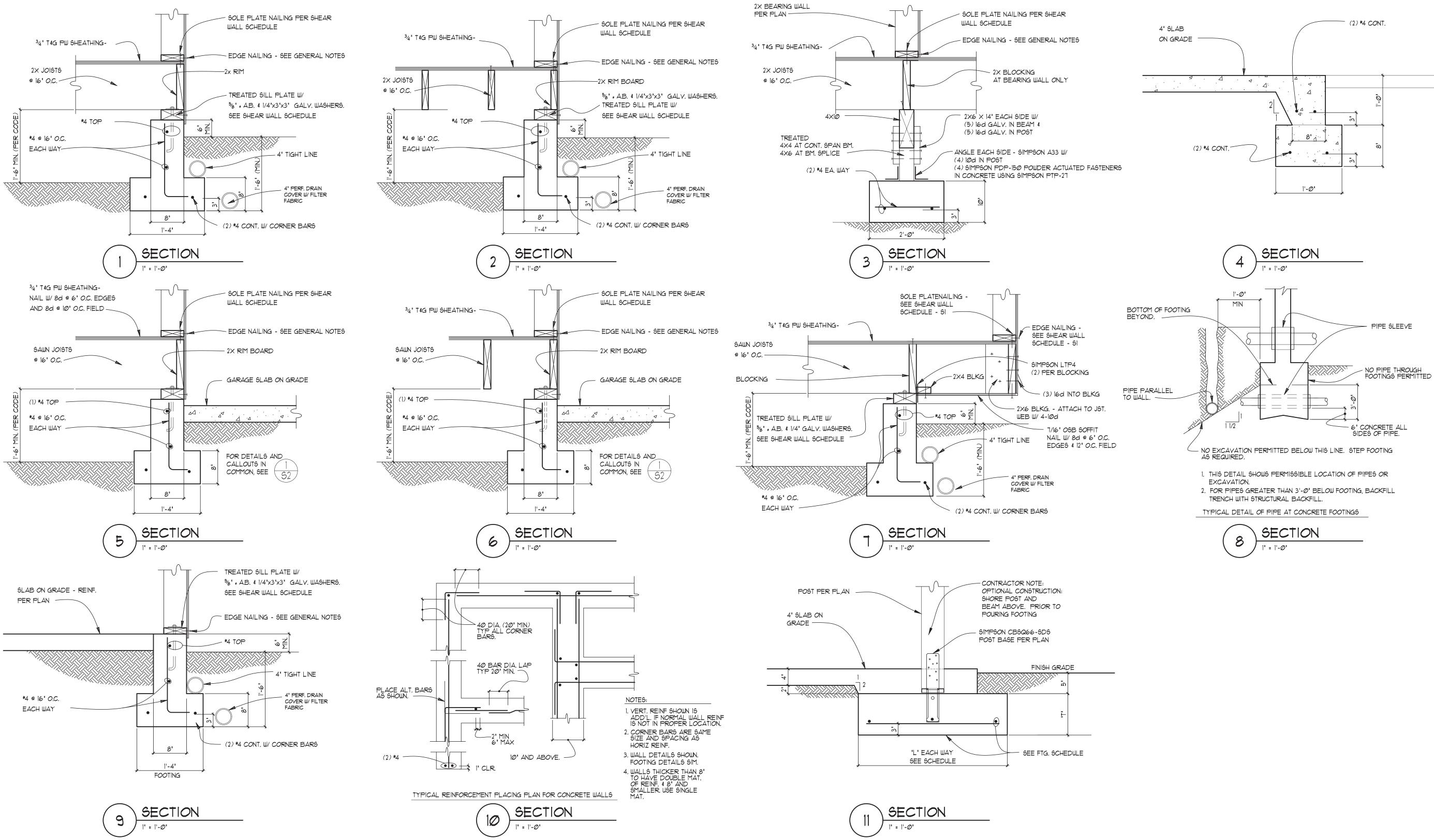


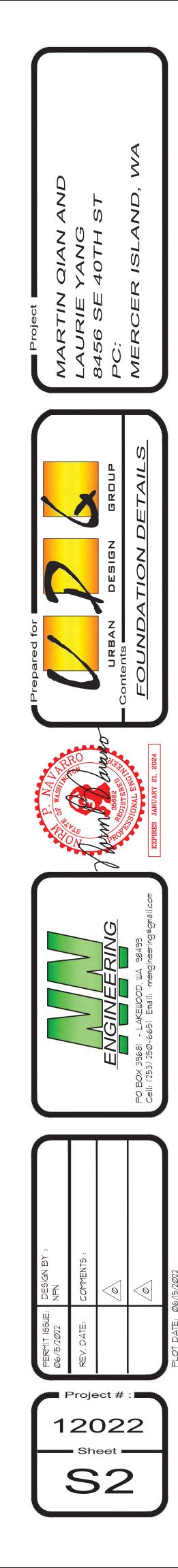


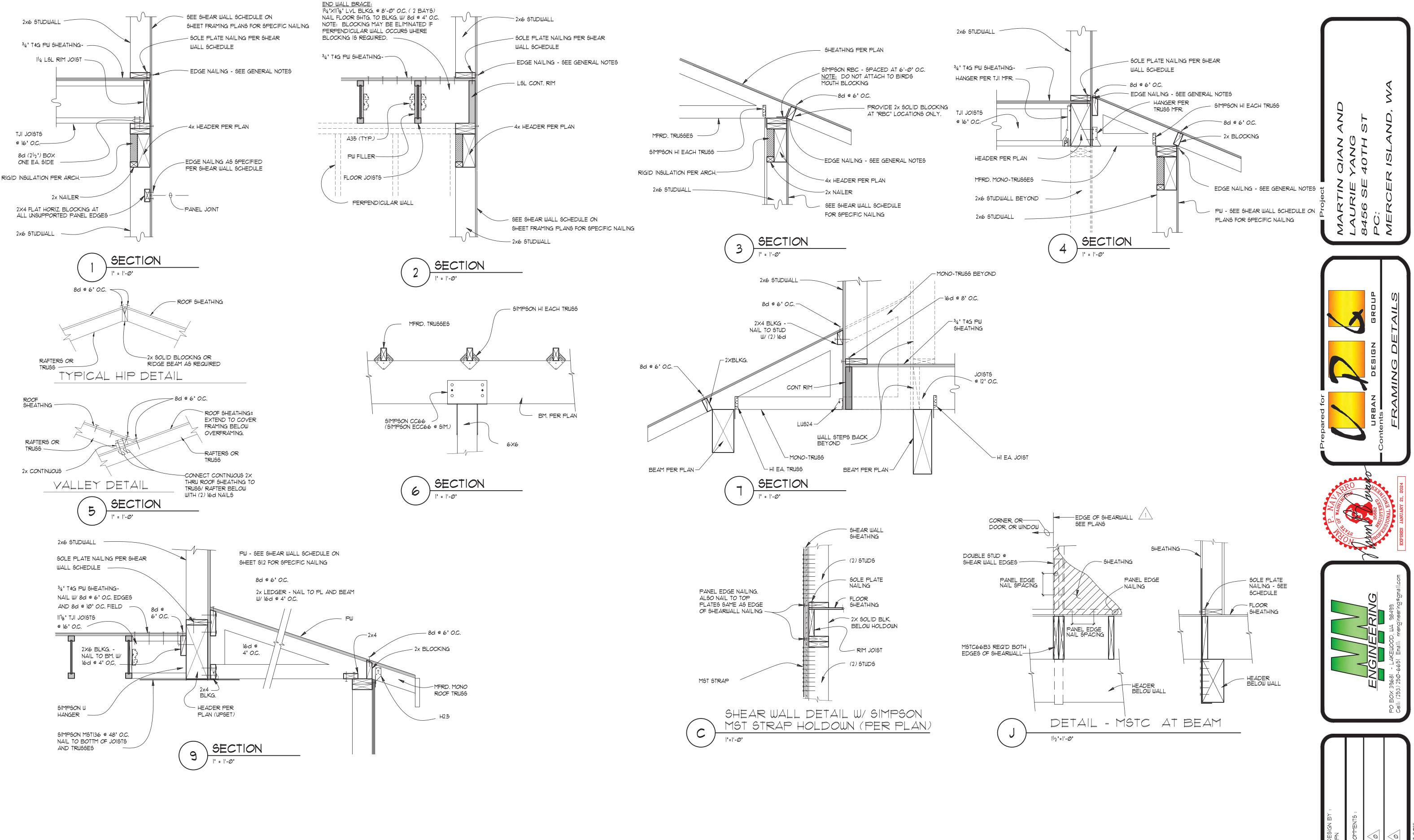
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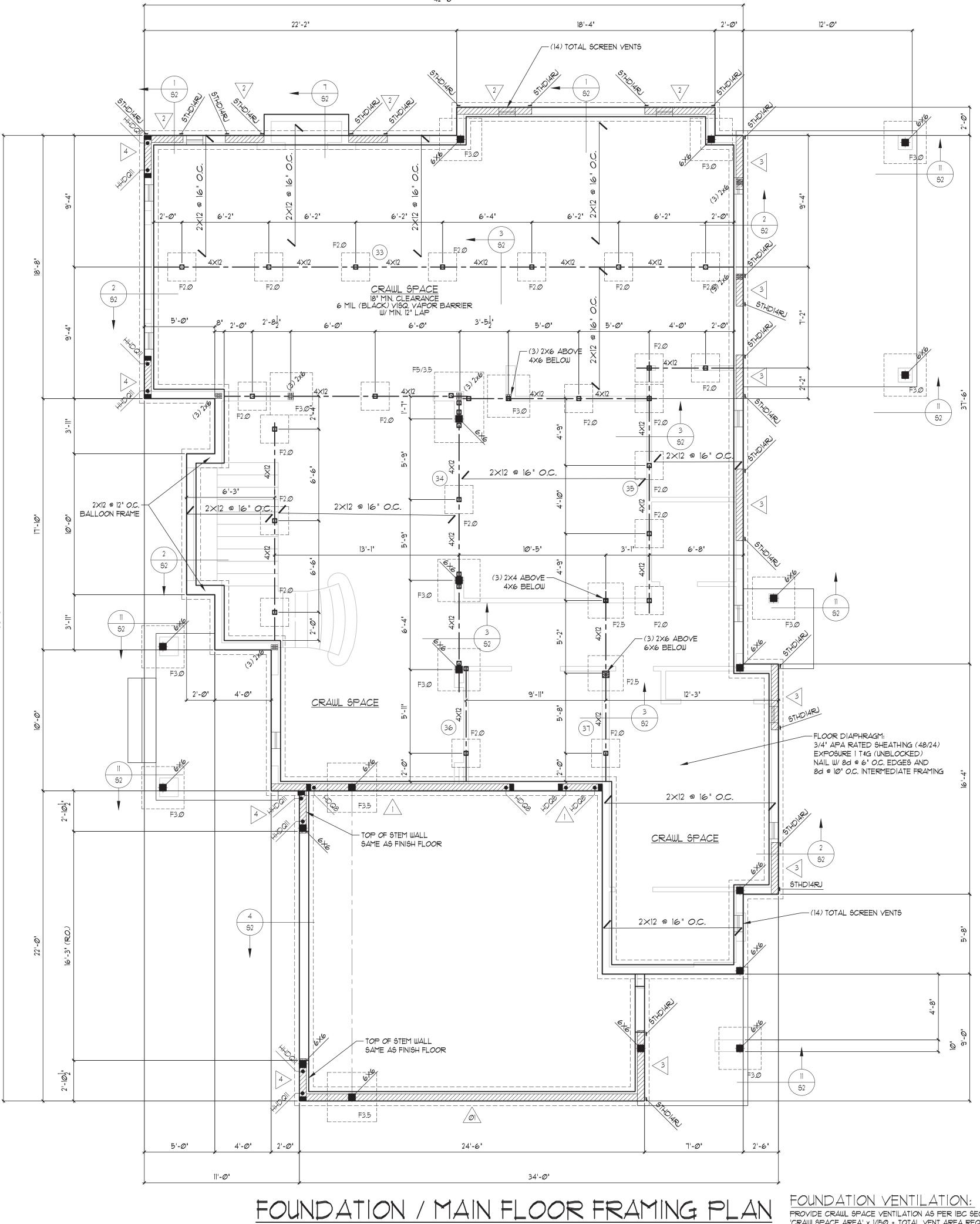


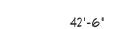




OT DATE: Ø6/15/2022

Project # : 12022 Sheet S3



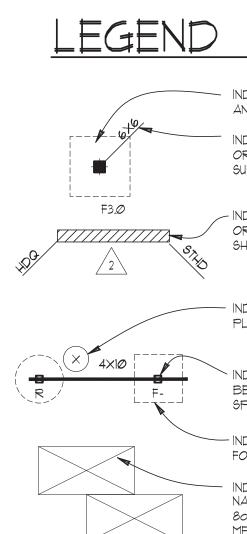


 $1/4" = 1' - \emptyset" \mid DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS$ WITH ARCHITECTURAL DRAWINGS.

PROVIDE CRAWL SPACE VENTILATION AS PER IBC SEC. 1203.3.1 'CRAWLSPACE AREA' × 1/150 = TOTAL VENT AREA REQUIRED (S.F.) QTY. OF 1'X14' VENTS REQUIRED: $\frac{2024}{(300)(0520)}$ = 13

FOUNDATION & MAIN FLOOR FRAMING NOTES:

- 1. ALL FLOOR BEAMS SHALL BE 4×10 DF #2 UNLESS NOTED OTHERWISE ON PLAN. NOTE LOCATE BEAMS UNDER BEARING WALL WHERE NOTED ON PLAN.
- 2. ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED GLACIAL TILL OR STRUCTURAL FILL. SEE GENERAL NOTES FOR ASSUMED ALLOWABLE SOIL LATERAL OR VERTICAL BEARING PRESSURES.
- 3. THE BOTTOMS OF FOOTING EXCAVATIONS SHALL BE LEVEL, CLEAN, AND FREE OF LOOSE MATERIAL OR WATER WHEN CONCRETE IS PLACED. OVER EXCAVATION SHALL BE FILLED CONCRETE THE SAME STRENGTH AS FOOTINGS.
- 4. FINISH GRADE AROUND THE PERIMETER OF THE STRUCTURE SHALL BE DRAINED AWAY FROM THE FOUNDATION FOR RAIN OR IRRIGATION WATER
- 5. THE CONTRACTOR SHALL FOLLOW THE AVAILABLE GEO-TECH, REPORT FOR THE RECOMMENDED SITE PREPARATIONS BEFORE CONSTRUCTING THE FOUNDATION.
- 6. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED WITH AN APPROVED PRESERVATIVE. ANY FIELD CUTS, NOTCHES, AND DRILLED HOLES SHALL BE RE-TREATED PER AWPAM4.
- 1. ALL FASTENERS & HARDWARE IN PRESSURE TREATED OR FIRE TREATED WOOD SHALL BE SIMPSON "ZMAX" (G185 HDG PER ASTM A653).
- 8. PROVIDE DOUBLE JOISTS OR BEAM (PER PLAN) BELOW SHEAR WALL PARALLEL TO TO JOISTS. NAIL WALL SOLE PLATE TO JOISTS OR BEAM PER SHEAR WALL SCHEDULE OR NOTE 8. OF SHEAR WALL SCHEDULE NOTES.
- 9. PROVIDE 5/8" DIA. GALV. ANCHOR BOLTS EMBED 1" MIN. IN CONCRETE. PROVIDE $\frac{1}{4}$ "X3"X3" GALVANIZED WASHERS AT EACH ANCHOR BOLT.
- 10. PROVIDE APPROPRIATE BLOCKOUT IN STEM WALLS OR FOOTINGS FOR PLUMBING 4 ELECTRICAL STUB-OUTS PER ARCH, PLANS, COORDINATE WITH GENERAL CONTRACTOR.
- 11. PROVIDE CRAWL SPACE ACCESS PER IBC AND ARCHITECTURAL PLANS. COORDINATE LOCATION IN SITE WITH CONTRACTOR.
- 12. PROVIDE CRAWL SPACE VENTILATION PER IBC AND FOUNDATION PLANS. DO NOT LOCATE VENTS WITHIN 8" OF HOLDOWN STRAPS OR HOLDOWN BOLTS. MAINTAIN 3'-0" CLEAR FROM EACH CORNER.
- 13. FOR TYPICAL PLACEMENT OF HORIZONTAL REINF. IN CONCRETE, SEE 14/62.
- 14. FOR TYPICAL DETAIL FOR INSTALLATION OF PIPES NEAR FOOTINGS, SEE 8/62.
- 15. PROVIDE SQUASH BLOCKING BELOW ALL SOLID SAWN OR BUILT-UP 2X POSTS ALONG EXTERIOR OR INTERIOR STEM WALLS PER DETAIL 4/31.



INDICATES SPREAD FOOTING PER PLAN AND REINF, PER SCHDULE,

INDICATES 6×6, 4×4, OR (×) 2× B.U. POSTS ORIGINATING AT THIS LEVEL AND SUPPORTING POINT LOADS FROM ABOVE.

- INDICATES SHEAR WALLS WITH HOLDOWNS OR FOUNDATION STRAPS PER PLAN. SEE SHEAR WALL SCHEDULE AND ELEVATION.

INDICATES BEAM MARK NUMBERS PER PLAN AND STRUCTURAL CALCULATIONS.

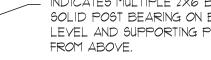
NDICATES 4X4 POST BELOW CONT. FLOOR BEAMS OR 4X6 POSTS AT FLOOR BEAM SPLICE. (TYP.)

- INDICATES ROUND OR SQUARE SPREAD FOOTING PER PLAN AND SCHEDULE.

NDICATES ¾" T\$G PLYWOOD -NAIL WITH 8d @ 6" O.C. EDGES AND 8d @ 10" O.C. AT INTERMEDIATE FRAMING MEMBERS

INDICATES MULTIPLE 2×6 B.U. POSTS OR SOLID POST BEARING ON BEAM AT THIS LEVEL AND SUPPORTING POINT LOADS



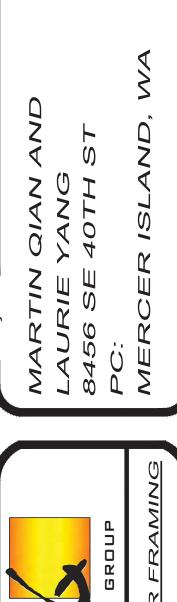


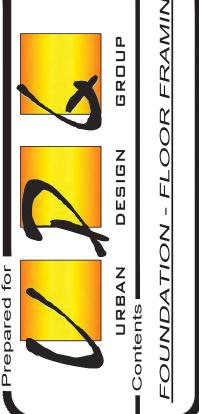




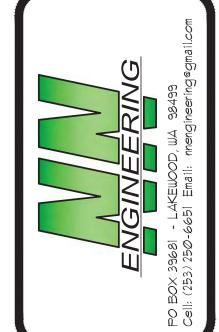
TYPE "L" "W" THK. LONGIT. TRANSV. ALLOWABL \blacksquare 24" 24" 10" (3) *4 (3) *4 5.5 K \blacksquare 24" DIA. 10" (2) *4 (2) *4 4.3 K \blacksquare 36" 36" 10" (3) *4 (3) *4 12.4 K	FOOTING SCHEDULE (1500 PSF BRG.) f'c = 2500 psi								
"L" "W" THK. LONGIT. TRANSV. LOAD (KIP) \blacksquare 24" 24" 10" (3) *4 (3) *4 5.5 K \blacksquare 24" DIA. 10" (2) *4 (2) *4 4.3 K \blacksquare 36" 36" 10" (3) *4 (3) *4 12.4 K	TYPE		N (INCHES)	REI	NF.	ALLOWABLE			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			"W" THK.	LONGIT.	TRANSV.	LOAD (KIPS)			
R 36" 36" 10" (3) #4 (3) #4 12.4 K			4" 1Ø"	(3) #4	(3) #4	5.5 K			
F3.Ø	R		. 10"	(2) #4	(2) *4	4.3 K			
42" 42" 12" (3) #4 (3) #4 16.5 K	· - :	-	66" 10"	(3) *4	(3)#4	12.4 K			
F3.5	F3.5		12" 12"	(3) #4	(3) #4	16.5 K			
48" 48" 12" (3) #5 (3) #5 21.6 K			8" 12"	(3)#5	(3)朽	21.6 K			
60" 60" 14" (6) #5 (6) #5 33.5 K		—	⊳Ø" 14"	(6) #5	(6)#5	33.5 K			

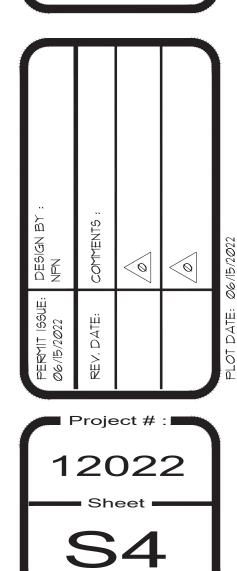


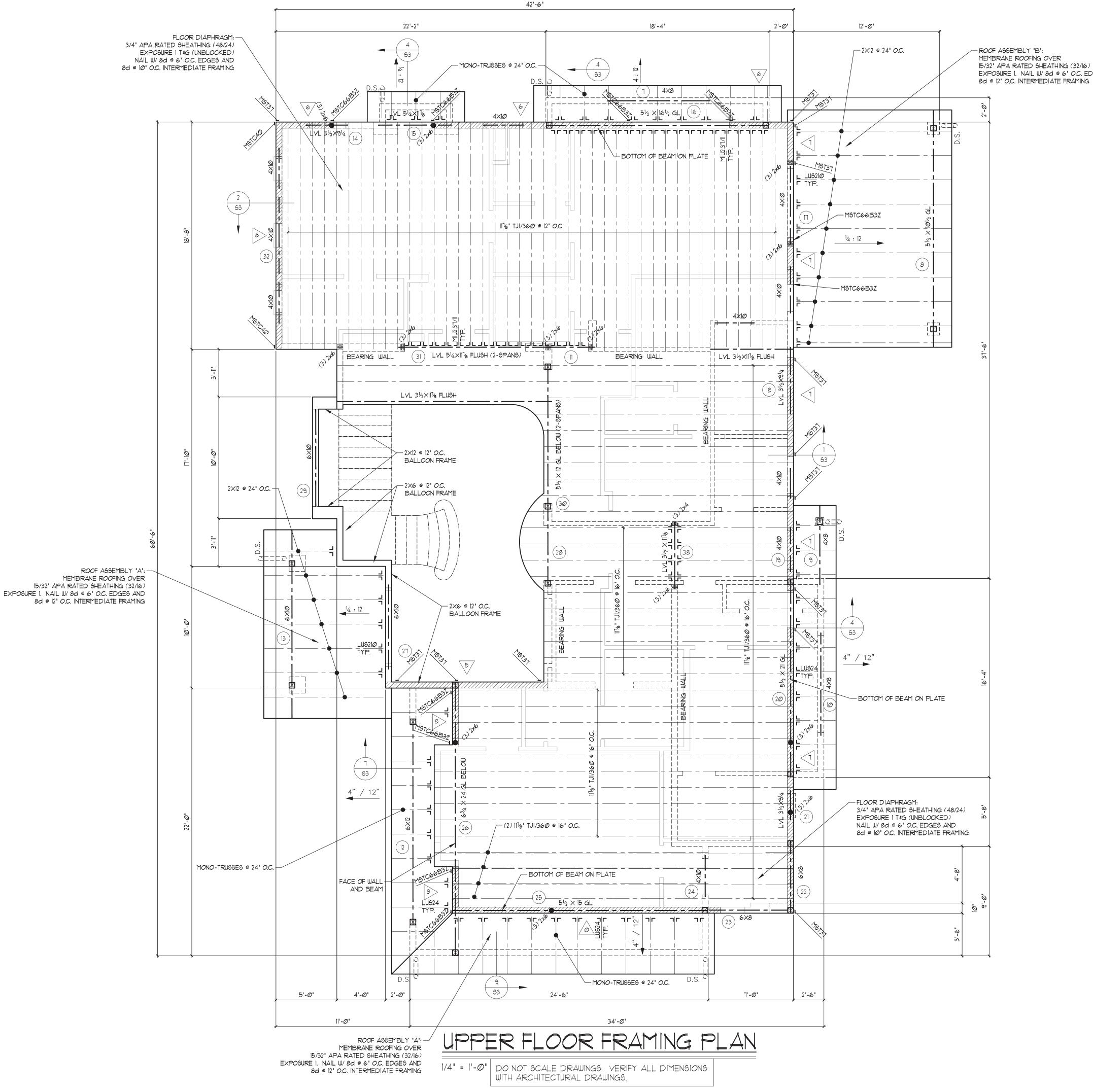






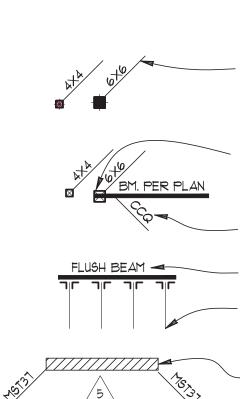






FLOOR FRAMING NOTES:

- 1. ALL EXTERIOR HEADERS SHALL BE 6×10 DF#2 UNLESS NOTED OTHERWISE ON PLAN. ALL INTERIOR HEADERS SHALL BE 4X10 DF#2 UNLESS NOTED OTHERWISE.
- 2. ALL EXTERIOR WALL STUDS SHALL BE 2×6 HEM-FIR #2 SPACED AT 16" O.C. UNLESS NOTED OTHERWISE ON PLAN. ALL INTERIOR WALL STUDS SHALL BE 2X4 HEM FIR #2 SPACED AT 16" O.C. UNLESS NOTED OTHERWISE.
- 3. FOR TYPICAL WALL FRAMING OR SHEAR WALL FRAMING SEE ELEVATION ON SHEET SI.
- 4. PROVIDE SOLID BLOCKING BELOW BEARING WALL OR SHEAR WALL PERPENDICULAR TO JOISTS. NAIL SOLE WALL SOLE PLATE TO BLOCKING PER SHEAR WALL SCHEDULE OR NOTE 8. OR SHEAR WALL SCHEDULE NOTES.
- 5. PROVIDE DOUBLE JOISTS OR BEAM (PER PLAN) BELOW SHEAR WALL PARALLEL TO TO JOISTS. NAIL WALL SOLE PLATE TO JOISTS OR BEAM PER SHEAR WALL SCHEDULE OR NOTE 10. OF SHEAR WALL SCHEDULE NOTES.
- 6. PROVIDE JOIST BRIDGING PER JOIST MER'S RECOMMENDATIONS.
- 7. PROVIDE GOLID 2X OR LVL RIM JOIST AT EXTERIOR WALL PER DETAIL AND PLAN. NAIL WALL SOLE PLATE TO RIM WITH PER SHEAR WALL SCHEDULE OR NOTE 10. OF SHEAR WALL SCHEDULE NOTES.
- 8. FOR JOIST CONNECTION TO FLUSH OR UPSET BEAM ON ONE OR TWO SIDES, SEE DETAIL
- 9. FOR SOLID POST OR BUILT UP 2X POST BEARING ON EXTERIOR OR INTERIOR WALL, SEE DETAIL 3/SI. 10.
- 11. NAIL JOISTS TO BEARING WALL TOP PLATES OR TOP OF BEAM WITH (2) 100 TOE NAIL EACH SIDE.
- 12. PROVIDE WEB STIFFENERS AT 'I' JOIST BEARING PER MFR'S RECOMMENDATIONS.
- 13. NOTCHING IN 'I' JOISTS NOT PERMITTED WITHOUT MER'S APPROVAL.
- 14. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED WITH AN APPROVED PRESERVATIVE. ANY FIELD CUTS, NOTCHES, OR DRILLED HOLES SHALL BE RE-TREATED WITH AWPAM4.
- 15. ALL FASTENERS & HARDWARE IN PRESSURE TREATED WOOD OR FIRE-RETARDANT WOOD SHALL BE "ZMAX"(G185 HDG PER ASTM A653).



INDICATES 6×6, 4×4, OR (×) 2× B.U. POSTS ORIGINATING AT THIS LEVEL AND SUPPORTING POINT LOADS FROM ABOVE.

INDICATES 6×6, 4×4, OR (×) 2× B.U. POSTS ORIGINATING AT LOWER LEVEL AND SUPPORTING POINT LOADS FROM THIS LEVEL AND ABOVE.

INDICATES SPECIAL POST/BEAM CAP PER PLAN OR GENERAL NOTES.

INDICATES MANUFACTURED "I" JOISTS OR SAWN JOIST SUPPORTED BY FACE MOUNTED SIMPSON HANGER.

- INDICATES SHEAR WALLS THIS LEVEL. SEE SHEAR WALL SCHEDULE AND ELEVATION.

INDICATES WALL STRAPS PER SHEAR WALL SCHEDULE AND PLAN.

INDICATES SPECIAL BEAM MARK NUMBER PER PLAN AND STRUCTURAL CALCULATIONS. SEE WALL ELEVATION ON 51 FOR FRAMING REQUIREMENTS.

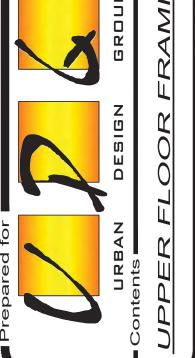
INDICATES WALL BELOW

INDICATES WALL AT THIS LEVEL.

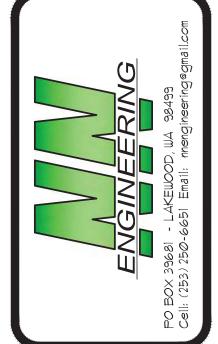
INDICATES 3/4" T&G PLYWOOD -NAIL WITH 80 @ 6" O.C. EDGES AND 8d @ 10" O.C. AT INTERMEDIATE FRAMING MEMBERS

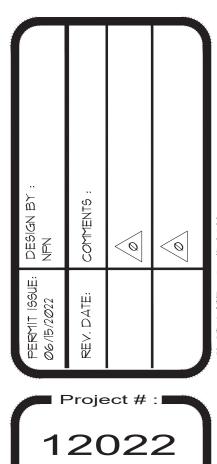
INDICATES MULTIPLE 2×6 B.U. POSTS OR SOLID POST BEARING ON BEAM AT THIS LEVEL AND SUPPORTING POINT LOADS FROM ABOVE.



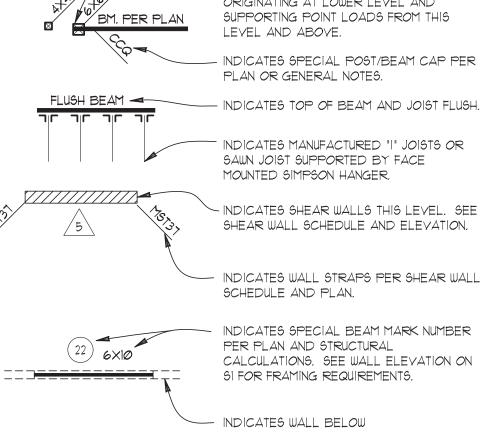


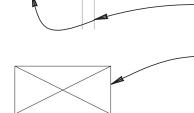




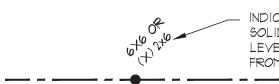


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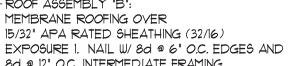


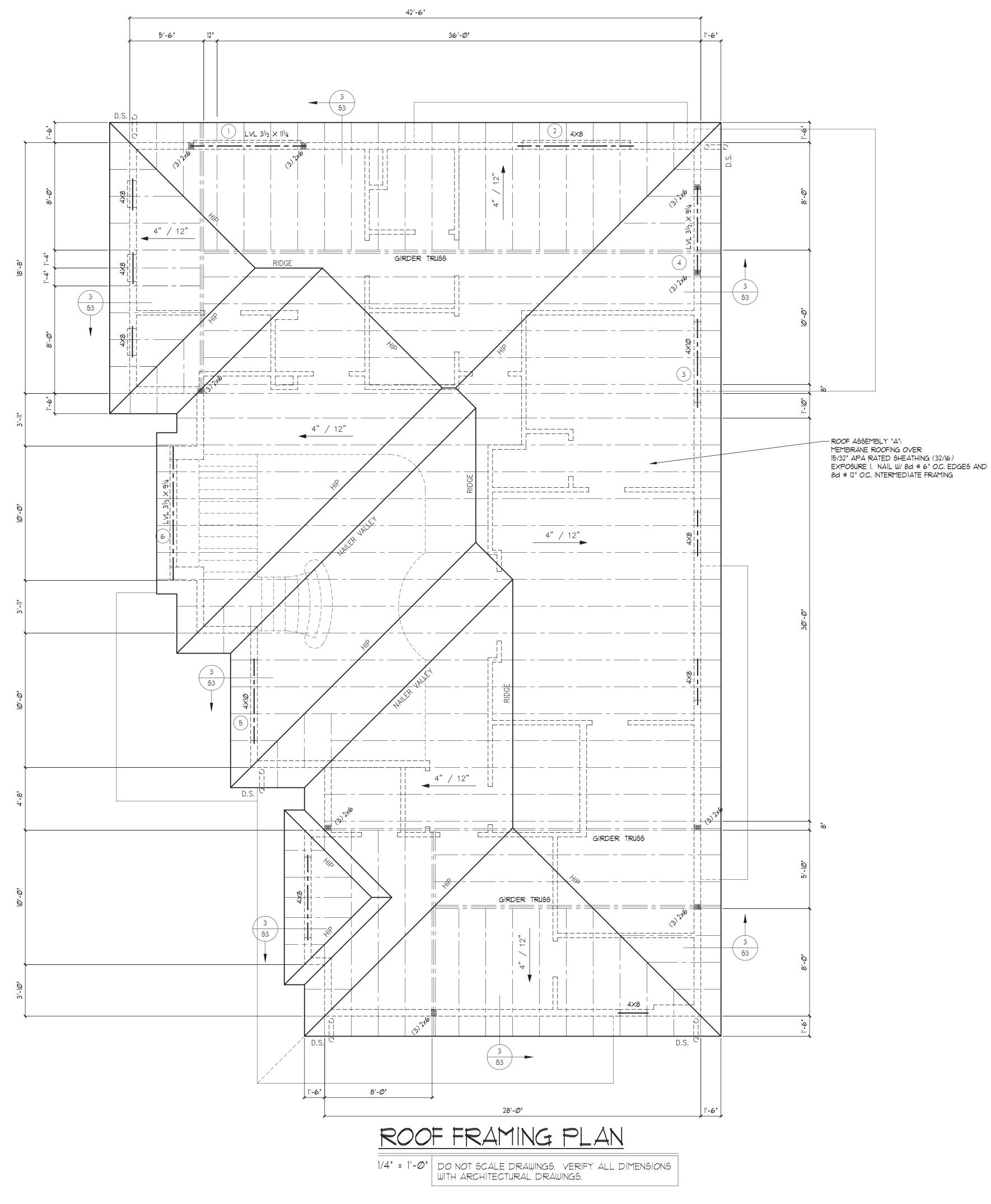




BEAM PER PLAN

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ROOF FRAMING NOTES:

- 1. ALL EXTERIOR HEADERS SHALL BE 6X8 DF#2 UNLESS NOTED OTHERWISE ON PLAN. ALL INTERIOR HEADERS SHALL BE 4×10 DF#2 UNLESS NOTED OTHERWISE ON PLAN.
- 2. SEE GENERAL NOTES AND TRUSS NOTES BELOW FOR TRUSS DESIGN SPECIFICATIONS.
- 3. ALL SAWN ROOF JOISTS SHALL BE HF#2 OR BETTER AND SPACED AT 24" O.C. UNLESS NOTED OTHERWISE.
- 4. PRE-MFRD. TJI JOISTS SHALL BE OF THE SIZE AND SERIES SPECIFIED ON THE PLAN. VERIFY MFRD, PLACEMENT PLAN WITH STRUCTURAL. NOTIFY THIS OFFICE OF ANY CONFLICTS IN LAYOUT BEFORE INSTALLATION.
- 5. PROVIDE ROOF VENTILATION PER CURRENT IRC OR IBC. SEE ARCHITECTURAL PLANS FOR SPECIFIC REQUIREMENTS.
- 6. PROVIDE ATTIC ACCESS PANEL PER CURRENT IRC, IBC, AND ARCHITECTURAL PLANS FOR SPECIFIC REQUIREMENTS.

WOOD TRUSSES (IBC 2303.4) SHALL BE:

- 1. DESIGNED PER IBC 2303.4.1.1 TO CARRY LOADS LISTED IN THE DESIGN CRITERION AND ANY ADDITIONAL POINT LOADS, UNIFORM LOADS, OR DRAG STRUT FORCES NOTED ON FRAMING PLANS.
- 2. NON-ATTIC STORAGE TRUSSES SHALL BE DESIGNED WITH A LIVE LOAD OF 20 PSF LOCATED IN THE PLANE OF THE TRUSS. THE MAXIMUM STORAGE SPACE ABOVE THE BOTTOM CHORD SHALL BE LESS THAN 42" HIGH AND 24" WIDE.
- 3. ATTIC TRUSSES SHALL BE DESIGNED FOR FLOOR LOADS LISTED IN THE DESIGN CRITERION AND LOCATED IN AREAS NOTED ON THE FRAMING PLANS.
- 4. TRUSS DESIGN DRAWINGS AND DOCUMENT SUBMITTAL (2303.4.1.1) SHALL INCLUDE STRESS ANALYSIS AND PICTORIAL DEPICTION OF EACH TRUSS TYPE FOR THE PROJECT AND INCLUDING A TRUGG PLACEMENT DIAGRAM (2303.4.2). TRUGG INSTALLATION DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A LICENSED ENGINEER IN THE STATE OF WASHINGTON. APPROVED TRUSS DOCUMENTS SHALL REMAIN ON THE JOB SITE FOR INSPECTION.
- 5. ALTERATIONS (2303.4.5): TRUGS MEMBERS SHALL NOT BE NOTCHED, DRILLED, SPLICED, OR OTHERWISE ALTERED IN ANY WAY WITHOUT WRITTEN APPROVAL OF THE TRUSS DESIGNER. ALTERATIONS RESULTING IN THE ADDITION OF LOADS TO ANY MEMBER (E.G. HVAC EQUIPMENT, PIPING, ETC.) SHALL NOT BE PERMITTED WITHOUT APPROVAL OF TRUSS DESIGNER.
- 6. TPI I SPECIFICATIONS: THE DESIGN, MANUFACTURE, FABRICATION, AND QUALITY ASSURANCE OF METAL-PLATE-CONNECTED WOOD TRUSSES SHALL BE IN ACCORDANCE WITH TPI 1. 1. TRUSSES SHALL BE BRACED TO MANUFACTURE'S SPECIFICATIONS.
- 8. UNLESS NOTED OTHERWISE ON PLANS, ALL TRUSSES SHALL HAVE SIMPSON H-1 CLIPS AT EXTERIOR BEARING WALLS. AT GABLE END TRUSSES, PROVIDE SIMPSON A35 AT 24" O.C.

BM. PER PLAN BM. PLAN BM. PER PLAN BM. PLA

PLAN OR GENERAL NOTES.

PER PLAN AND STRUCTURAL

HNDICATES WALL BELOW

SI FOR FRAMING REQUIREMENTS.

INDICATES SPECIAL POST/BEAM CAP PER

-INDICATES SPECIAL BEAM MARK NUMBER

CALCULATIONS. SEE WALL ELEVATION ON

HNDICATES MANUFACTURED TRUSSES OR SAWN JOIST SUPPORTED BY FACE MOUNTED SIMPSON HANGER.

INDICATES 1/6" OSB SHEATHING -

NAIL WITH 80 @ 6" O.C. EDGES AND

8d @ 12" O.C. AT INTERMEDIATE FRAMING MEMBERS (TYP.)

9. PROVIDE STC CLIPS AT ALL TRUSSES OVER NON-BEARING WALLS.

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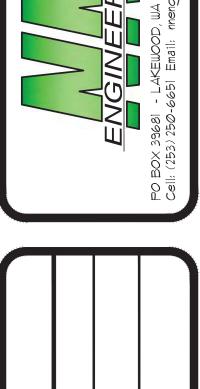
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COORDINATION OF CONSTRUCTION, INCLUDING VERIFICATION OF DIMENSIONS & FIELD CONDITIONS, IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM PRIOR TO CONSTRUCTION.

CONTRACTOR NOTE: REFER TO TRUSS MANUFACTURER DWG. FOR TRUSS LAYOUT AND TYPES. USE THIS DRAWING FOR LOCATION OF SPECIAL BEAM SIZES, GIRDER TRUSS AND BUILT-UP POST LOCATIONS.

