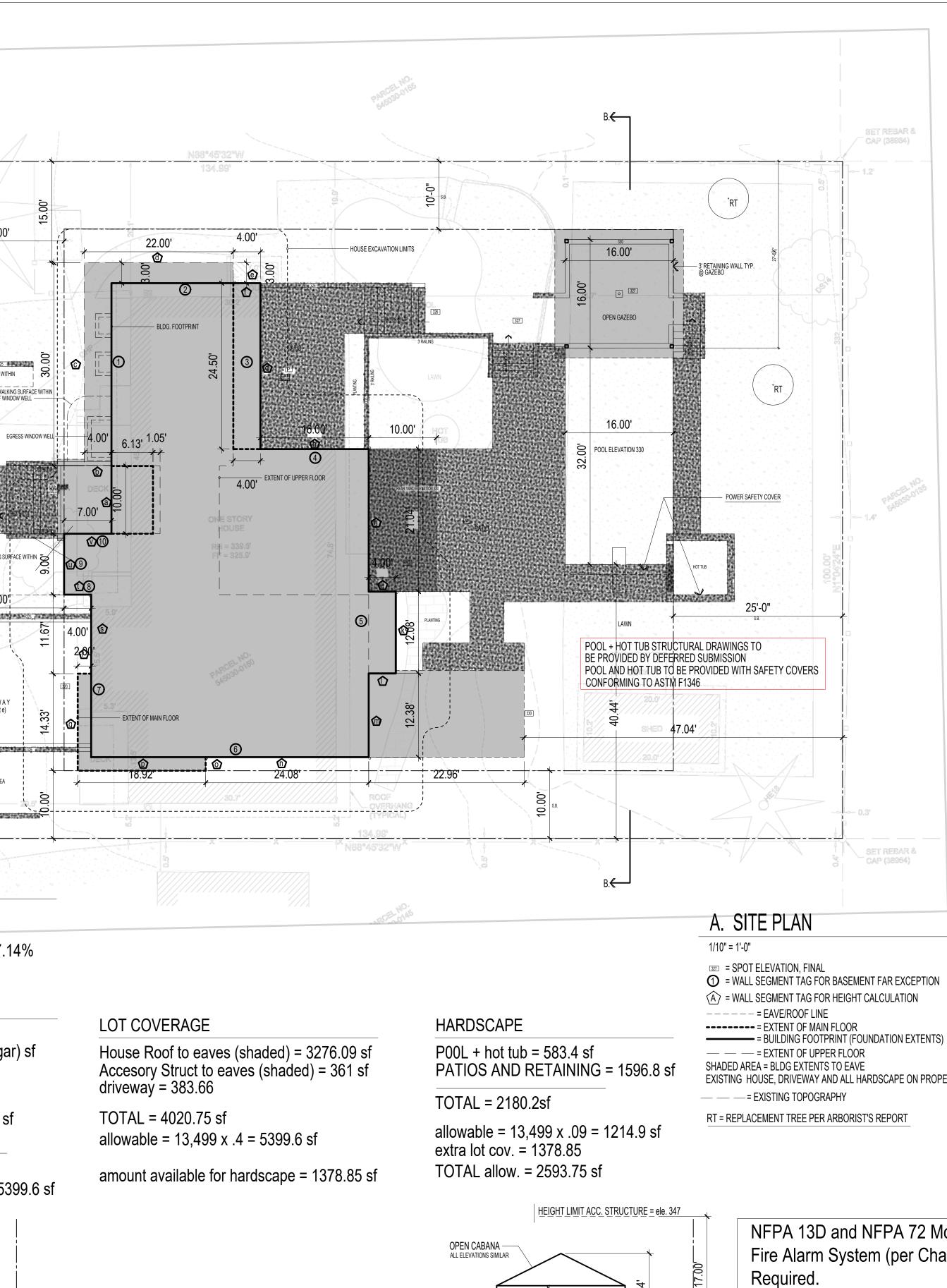
segment	length	elev	′ @ mi¢wt	d segmer	nt				SET MAG NAIL
а	1	0	324.5	30	245			.00	IN ASPHALT 22.00° W
b		4	324.5		298				
C d		0	324		720				30.00° K
d e	2	2	324.5 324.5		139 3.5			RIM	= 317.31'
f		4	324.5	12	298				
g h	24	.5 6	320 320		340 120				
i	20.0		325		513			8	
j k	12.0	4	325.5 325.5	13 3932	302	2			21.00
k I	12.0	4	325.5		.04 302				
m	12.3		325.5	4023				REMOVE EXI	STING DRIVEWAY IN ROW,
n o	24.0)8 2	325 325		326 350			AND RESTOR	F THE ROW PER THE F THE CITY INSPECTOR. NO WALKING S 3' OF WALL
p	18.9	92	324.5	6139	.54			9 89	
q	14.2	25	320		560		8		
r S	11.6	2	320 320	373	540 1.2				OHU
t		4	324.5		298		04.28		
u v		9	324.5 324.5	292 227					GRAVEL PATH
v		•	527.0		1.0	Diga.			
									REMOVE ANY CONC/PAVERS IN ROW, AND RESTORE THE ROW PER THE DIRECTION OF THE CITY INSPECTOR.
perim=	258.8	20		83742	46			\Diamond	
lheum-	200.0	99		03742	.40	*	SSMH RIM = 317.60'	8	
BOLD elevations lo	ower than existing	grade							ASPHALT IN R.O.W.
BOLD elevations lo	ower than existing	grade				88		S	ASPHALT IN R.O.W. (C
BOLD elevations lo Basem			Rexc	eptio	on C	alc.		W	د معالم ASPHALT IN R.O.W. (c
	nent F	FAF	nd be		on C		ócover v	22 22 22 22 22 22 22 22 22 22 22 22 22	
Sasem	nent F	FAF	nd be lev. 324.5	gin cov en 4.50	d cover av	/g cover % 4.5	50.0%	8 5.00	S ASPHALT IN R.O.W. (C
Sasem	oent F	FAF nning e 324.5 324.5 324.5	nd be lev. 324.5 324.5 324.5	gin cov en 4.50 4.50 4.50	d cover av 4.50 4.50 4.50	2g cover % 4.5 4.5 4.5	50.0% 50.0% 50.0%	5.00 2.00 15.00	LOT SLOPE HIGH POINT = 332' LOW POINT = 320'
Sasem	oent F	FAF nning e 324.5 324.5	nd be lev. 324.5 324.5 324.5 325 325	gin cov en 4.50 4.50	d cover av 4.50 4.50	vg cover % 4.5 4.5	50.0% 50.0%	5.00 2.00	LOT SLOPE HIGH POINT = 332'
Segment len	orent F sth begi elev 10 4 30 22 3 4	TAF anning e 324.5 324.5 324.5 324.5	nd be lev. 324.5 324.5 324.5 325 325 325	egin cov en 4.50 4.50 4.50 4.50	d cover av 4.50 4.50 4.50 5.00 5.00 5.00	vg cover % 4.5 4.5 4.5 4.5 4.75	50.0% 50.0% 50.0% 52.8% 55.6% 55.6%	5.00 2.00 15.00 11.61 1.67 2.22	LOT SLOPE HIGH POINT = 332' LOW POINT = 320'
Segment len	gth begi 10 elev 10 4 30 22 3 4 24.5 16	AF	nd be lev. 324.5 324.5 324.5 325 325 325 325 325	egin cov en 4.50 4.50 4.50 4.50 5.00 5.00 5.00 0.00	d cover av 4.50 4.50 5.00 5.00 5.00 0.00 5.50	rg cover % 4.5 4.5 4.5 4.75 5 5 2.5 2.75	50.0% 50.0% 50.0% 52.8% 55.6% 55.6% 27.8% 30.6%	5.00 2.00 15.00 11.61 1.67 2.22 6.81 4.89	LOT SLOPE HIGH POINT = 332' LOW POINT = 320'
Segment len	gth begi gth elev 10 4 30 22 3 4 22 3 4 24.5 16 20.04 4 4	A Particular Par	nd be lev. 324.5 324.5 324.5 325 325 325 325.5 325.5 325.5	gin cov en 4.50 4.50 4.50 4.50 5.00 5.00 5.00 0.00 5.50 5.5	d cover av 4.50 4.50 5.00 5.00 5.00 5.50 5.50 5.50	rg cover 9/ 4.5 4.5 4.5 4.75 5 5 2.5 2.75 5.5 5.5	50.0% 50.0% 50.0% 52.8% 55.6% 27.8% 30.6% 61.1% 61.1%	5.00 2.00 15.00 11.61 1.67 2.22 6.81 4.89 12.25 2.44	ASPHALTIN R.O.W. (c LOT SLOPE HIGH POINT = 332' LOW POINT = 320' LOT SLOPE = 12'/168' FAR CALCULATION Main Floor = 2354.6 sf
Segment len	gth begi gth begi elev 10 4 30 22 3 4 24.5 16 20.04 4 12.08 4 4	AF A F A F A F A F A F A F A F A	nd be lev. 324.5 324.5 324.5 325 325 325 325.5 325.5 325.5 325.5 325.5	egin cov en 4.50 4.50 4.50 4.50 5.00 5.00 5.00 5.00	d cover av 4.50 4.50 5.00 5.00 5.00 5.50 5.50 5.50	rg cover % 4.5 4.5 4.5 4.75 5 5 5 2.75 5.5 5.5 5.5 5.5	50.0% 50.0% 50.0% 52.8% 55.6% 27.8% 30.6% 61.1% 61.1% 61.1%	5.00 2.00 15.00 11.61 1.67 2.22 6.81 4.89 12.25 2.44 7.38 2.44	ASPHALTIN R.O.W. (c LOT SLOPE HIGH POINT = 332' LOW POINT = 320' LOT SLOPE = 12'/168' FAR CALCULATION Main Floor = 2354.6 sf
Segment len	gth begi gth elev 10 4 30 22 3 4 22 3 4 24.5 16 20.04 4 4	A nning e 324.5 324.5 324.5 324.5 324.5 325 325 325 325 325.5 325.5 325.5	nd be lev. 324.5 324.5 324.5 325 325 325 325.5 325.5 325.5 325.5	egin cov en 4.50 4.50 4.50 4.50 5.00 5.00 5.00 5.00	d cover av 4.50 4.50 5.00 5.00 5.00 0.00 5.50 5.50	rg cover % 4.5 4.5 4.5 4.75 5 5 5 2.75 5.5 5.5 5.5	50.0% 50.0% 50.0% 52.8% 55.6% 55.6% 27.8% 30.6% 61.1% 61.1%	5.00 2.00 15.00 11.61 1.67 2.22 6.81 4.89 12.25 2.44 7.38	ASPHALTINR.O.W. (c LOT SLOPE HIGH POINT = 332' LOW POINT = 320' LOT SLOPE = 12'/168' FAR CALCULATION
Segment len segment len a b c d c d e f f g h i i j k l l m n o	gth begi gth elev. 10 4 30 22 3 4 22 3 4 24.5 16 20.04 4 12.08 4 12.36 24.08 2	Anning e 324.5 324.5 324.5 324.5 324.5 325.5 325.5 325.5 325.5 325.5 325.5 325.5 325.5 325.5 325.5 325.5 325.5 325.5 325.5 325.5 325.5	nd be lev. 324.5 324.5 324.5 325 325 325 325.5 325.5 325.5 325.5 325.5 325.5 325.5 325.5 325.5 325.5 325.5 325.5	egin cov en 4.50 4.50 4.50 4.50 5.00 5.00 5.00 5.50 5.5	d cover av 4.50 4.50 5.00 5.00 5.00 5.50 5.50 5.50	rg cover % 4.5 4.5 4.5 4.75 5 5 5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.	50.0% 50.0% 50.0% 52.8% 55.6% 55.6% 30.6% 61.1% 61.1% 61.1% 61.1% 58.3% 55.6% 50.0%	5.00 2.00 15.00 11.61 1.67 2.22 6.81 4.89 12.25 2.44 7.38 2.44 7.38 2.44 7.21 13.38 1.00	ASPHALTIN ROW. LOT SLOPE HIGH POINT = 332' LOW POINT = 320' LOT SLOPE = 12'/168' FAR CALCULATION Main Floor = 2354.6 sf Lower Floor = 2403 (with Upper Floor = 1938 sf
Segment len a b c d e f g h i j k l l m n	gth begi gth begi elev. 10 4 30 22 3 4 24.5 16 20.04 4 12.08 4 12.36 24.08 12.36	A nning 24.5 324.5 324.5 324.5 324.5 325.5	nd be lev. 324.5 324.5 324.5 325 325 325 325.5 325.5 325.5 325.5 325.5 325.5 325.5 325.5 325.5 325.5 325.5 325.5 325.5 325.5 325.5 325.5 325.5 325.5 325.5	egin cov en 4.50 4.50 4.50 4.50 5.00 5.00 5.00 5.00	d cover av 4.50 4.50 5.00 5.00 5.00 5.50 5.50 5.50	rg cover % 4.5 4.5 4.5 4.75 5 5 5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.	50.0% 50.0% 50.0% 52.8% 55.6% 27.8% 30.6% 61.1% 61.1% 61.1% 61.1% 58.3% 55.6% 50.0% 50.0%	5.00 2.00 15.00 11.61 1.67 2.22 6.81 4.89 12.25 2.44 7.38 2.44 7.38 2.44 7.21 13.38 1.00 9.46 7.13	ASPHALTIN R.O.W. (c LOT SLOPE HIGH POINT = 332' LOW POINT = 320' LOT SLOPE = 12'/168' FAR CALCULATION Main Floor = 2354.6 sf
Segment len segment len a b c d c d e f f g h i i j k l l m n o	gth begi gth elev. 10 4 30 22 3 4 22 3 4 30 22 3 4 24.5 16 20.04 4 12.08 4 12.36 24.08 2 18.92 14.25 2 11.66	A nning 24.5 324.5 324.5 324.5 324.5 325.5	nd be lev. 324.5 324.5 324.5 325 325 325 325.5	egin cov en 4.50 4.50 4.50 5.00 5.00 5.00 5.00 5.50 5.5	d cover av 4.50 4.50 5.00 5.00 5.00 5.50 5.50 5.50	rg cover 9% 4.5 4.5 4.5 4.5 5 5 5 5 5.5 5.5 5.5 5.5	50.0% 50.0% 50.0% 52.8% 55.6% 27.8% 30.6% 61.1% 61.1% 61.1% 61.1% 61.1% 58.3% 55.6% 50.0% 50.0% 50.0% 50.0%	5.00 2.00 15.00 11.61 1.67 2.22 6.81 4.89 12.25 2.44 7.38 2.44 7.38 2.44 7.21 13.38 1.00 9.46 7.13 1.00 5.83	LOT SLOPE HIGH POINT = 332' LOW POINT = 320' LOT SLOPE = 12'/168' FAR CALCULATION Main Floor = 2354.6 sf Lower Floor = 2403 (with Upper Floor = 1938 sf excepted FAR = (-1194)
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Segment len segment len a b c d e f g h i j k l n n o p q r	gth begi gth begi elev. 10 4 30 22 3 4 24.5 16 20.04 4 12.08 4 24.5 16 20.04 12.08 4 12.08 4 12.36 2 14.25 2 14.25 2 11.66 4	Anning e 324.5 324.5 324.5 324.5 324.5 325.5	nd be lev. 324.5 324.5 324.5 325 325 325 325.5	egin cov en 4.50 4.50 4.50 4.50 5.00 5.00 5.00 5.50 5.5	d cover av 4.50 4.50 5.00 5.00 5.00 5.50 5.50 5.50 5.50 5.50 5.50 5.50 5.50 5.50 5.50 5.50 5.50 5.50 4.50 4.50 4.50 4.50 4.50	rg cover % 4.5 4.5 4.5 4.5 5 5 5 5 5.5 5.5 5.5 5.5	50.0% 50.0% 50.0% 52.8% 55.6% 55.6% 30.6% 61.1% 61.1% 61.1% 61.1% 61.1% 58.3% 55.6% 50.0% 50.0% 50.0% 50.0%	5.00 2.00 15.00 11.61 1.67 2.22 6.81 4.89 12.25 2.44 7.38 2.44 7.38 2.44 7.21 13.38 1.00 9.46 7.13 1.00 5.83 2.00	ASPHALTINROW ASPHALTINROW LOT SLOPE HIGH POINT = 332' LOW POINT = 320' LOT SLOPE = 12'/168' FAR CALCULATION Main Floor = 2354.6 sf Lower Floor = 1938 sf excepted FAR = (-1194 stairs = (-110) TOTAL = 5390.9 sf
Segment len segment len a b c d c f g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g j h i i g j h i i g j h i i g j h i i g j h i i g j h i i g j h i i g j h i i g j h i i g j h i i g j h i i g j j i g j j i g j j i g j j i g j j i g j j i g j j i g j j i g j j i g j j j i g j j j i g j j j j	gth begi gth begi elev 10 4 30 22 3 30 22 3 4 20.04 4 12.08 4 12.08 4 12.36 2 24.5 16 112.08 4 12.08 4 12.08 4 12.08 2 11.66 2 11.66 4 9 9	A nning 24.5 324.5 324.5 324.5 324.5 325.5 324.5 325 325 325 325 325 325 325 32	nd be lev. 324.5 324.5 324.5 325 325 325 325.5 3	egin cov en 4.50 4.50 4.50 4.50 5.00 5.00 5.00 5.50 5.50 5.50 5.50 5.50 5.50 5.50 4.50 4.50 4.50 4.50 4.50 4.50 4.50	d cover av 4.50 4.50 5.00 5.00 5.00 5.00 5.50 5.50 5.50 5.50 5.50 5.50 5.50 5.50 5.50 5.50 4.50 4.50 4.50 4.50 4.50 4.50	rg cover 9% 4.5 4.5 4.5 4.5 5 5 5 5 5 5 5 5 5 5 5 5	50.0% 50.0% 50.0% 52.8% 55.6% 27.8% 30.6% 61.1% 61.1% 61.1% 61.1% 61.1% 58.3% 55.6% 50.0% 50.0% 50.0% 50.0% 50.0%	5.00 2.00 15.00 11.61 1.67 2.22 6.81 4.89 12.25 2.44 7.38 2.44 7.38 2.44 7.21 13.38 1.00 9.46 7.13 1.00 5.83 2.00 4.50	ASPHALTINROW ASPHALTINROW LOT SLOPE HIGH POINT = 332' LOW POINT = 320' LOT SLOPE = 12'/168' FAR CALCULATION Main Floor = 2354.6 sf Lower Floor = 1938 sf excepted FAR = (-1194 stairs = (-110) TOTAL = 5390.9 sf
Segment len segment len a b c d c f g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g j h i i g j h i i g j h i i g j h i i g j h i i g j h i i g j h i i g j h i i g j h i i g j h i i g j h i i g j j i g j j i g j j i g j j i g j j i g j j i g j j i g j j i g j j i g j j j i g j j j i g j j j j	gth begi gth begi elev 10 4 30 22 3 30 22 3 4 20.04 4 12.08 4 12.08 4 12.36 2 24.5 16 112.08 4 12.08 4 12.08 4 12.08 2 11.66 2 11.66 4 9 9	A nning 24.5 324.5 324.5 324.5 324.5 325.5 324.5 325 325 325 325 325 325 325 32	nd be lev. 324.5 324.5 324.5 325 325 325 325.5 3	egin cov en 4.50 4.50 4.50 4.50 5.00 5.00 5.00 5.50 5.50 5.50 5.50 5.50 5.50 5.50 4.50 4.50 4.50 4.50 4.50 4.50 4.50	d cover av 4.50 4.50 5.00 5.00 5.00 5.00 5.50 5.50 5.50 5.50 5.50 5.50 5.50 5.50 5.50 5.50 4.50 4.50 4.50 4.50 4.50 4.50	rg cover 9% 4.5 4.5 4.5 4.5 5 5 5 5 5 5 5 5 5 5 5 5	50.0% 50.0% 50.0% 52.8% 55.6% 27.8% 30.6% 61.1% 61.1% 61.1% 61.1% 61.1% 58.3% 55.6% 50.0% 50.0% 50.0% 50.0% 50.0%	5.00 2.00 15.00 11.61 1.67 2.22 6.81 4.89 12.25 2.44 7.38 2.44 7.38 2.44 7.21 13.38 1.00 9.46 7.13 1.00 5.83 2.00 4.50	ASPHALTINROW ASPHALTINROW LOT SLOPE HIGH POINT = 332' LOW POINT = 320' LOT SLOPE = 12'/168' FAR CALCULATION Main Floor = 2354.6 sf Lower Floor = 1938 sf excepted FAR = (-1194 stairs = (-110) TOTAL = 5390.9 sf
Segment len segment len a b c d c f g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g j h i i g j h i i g j h i i g j h i i g j h i i g j h i i g j h i i g j h i i g j h i i g j h i i g j h i i g j j i g j j i g j j i g j j i g j j i g j j i g j j i g j j i g j j i g j j j i g j j j i g j j j j	gth begi gth elev. 10 4 30 22 3 4 22 3 4 24.5 16 20.04 4 12.08 4 24.5 16 20.04 12.08 4 12.08 4 12.08 2 14.25 2 11.66 4 9 7 7 1 9 7 10 1	A nning 24.5 324.5 324.5 324.5 324.5 325.5 324.5 325 325 325 325 325 325 325 32	nd be lev. 324.5 324.5 324.5 325 325 325 325.5 3	egin cov en 4.50 4.50 4.50 4.50 5.00 5.00 5.00 5.50 5.50 5.50 5.50 5.50 5.50 5.50 4.50 4.50 4.50 4.50 4.50 4.50 4.50	d cover av 4.50 4.50 5.00 5.00 5.00 5.00 5.50 5.50 5.50 5.50 5.50 5.50 5.50 5.50 5.50 5.50 4.50 4.50 4.50 4.50 4.50 4.50	rg cover 9% 4.5 4.5 4.5 4.5 5 5 5 5 5 5 5 5 5 5 5 5	50.0% 50.0% 50.0% 52.8% 55.6% 27.8% 30.6% 61.1% 61.1% 61.1% 61.1% 61.1% 58.3% 55.6% 50.0% 50.0% 50.0% 50.0% 50.0%	5.00 2.00 15.00 11.61 1.67 2.22 6.81 4.89 12.25 2.44 7.38 2.44 7.38 2.44 7.21 13.38 1.00 9.46 7.13 1.00 5.83 2.00 4.50 3.50	ASPHALTINROW ASPHALTINROW LOT SLOPE HIGH POINT = 332' LOW POINT = 320' LOT SLOPE = 12'/168' FAR CALCULATION Main Floor = 2354.6 sf Lower Floor = 1938 sf excepted FAR = (-1194 stairs = (-110) TOTAL = 5390.9 sf
Segment len segment len a b c d c f g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g h i i g j h i i g j h i i g j h i i g j h i i g j h i i g j h i i g j h i i g j h i i g j h i i g j h i i g j h i i g j j i g j j i g j j i g j j i g j j i g j j i g j j i g j j i g j j i g j j j i g j j i g j j j j	gth begi gth begi elev 10 4 30 22 3 30 22 3 4 20.04 4 12.08 4 12.08 4 12.36 2 24.5 16 112.08 4 12.08 4 12.08 4 12.08 2 11.66 2 11.66 4 9 9	A nning 24.5 324.5 324.5 324.5 324.5 325.5 324.5 325 325 325 325 325 325 325 32	nd be lev. 324.5 324.5 324.5 325 325 325 325.5 3	egin cov en 4.50 4.50 4.50 4.50 5.00 5.00 5.00 5.50 5.50 5.50 5.50 5.50 5.50 5.50 4.50 4.50 4.50 4.50 4.50 4.50 4.50	d cover av 4.50 4.50 5.00 5.00 5.00 5.50 5.50 5.50 5.50 5.50 5.50 5.50 5.50 5.50 5.50 5.50 4.50 5.00	'g cover % 4.5 4.5 4.5 4.5 4.75 5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 4.5 4.5 4.5 5 5 5 </td <td>50.0% 50.0% 50.0% 52.8% 55.6% 27.8% 30.6% 61.1% 61.1% 61.1% 61.1% 61.1% 58.3% 55.6% 50.0% 50.0% 50.0% 50.0% 50.0% 50.0%</td> <td>5.00 2.00 15.00 11.61 1.67 2.22 6.81 4.89 12.25 2.44 7.38 2.44 7.38 2.44 7.21 13.38 1.00 9.46 7.13 1.00 5.83 2.00 4.50</td> <td>ASPHALTINROW ASPHALTINROW LOT SLOPE HIGH POINT = 332' LOW POINT = 320' LOT SLOPE = 12'/168' FAR CALCULATION Main Floor = 2354.6 sf Lower Floor = 1938 sf excepted FAR = (-1194 stairs = (-110) TOTAL = 5390.9 sf</td>	50.0% 50.0% 50.0% 52.8% 55.6% 27.8% 30.6% 61.1% 61.1% 61.1% 61.1% 61.1% 58.3% 55.6% 50.0% 50.0% 50.0% 50.0% 50.0% 50.0%	5.00 2.00 15.00 11.61 1.67 2.22 6.81 4.89 12.25 2.44 7.38 2.44 7.38 2.44 7.21 13.38 1.00 9.46 7.13 1.00 5.83 2.00 4.50	ASPHALTINROW ASPHALTINROW LOT SLOPE HIGH POINT = 332' LOW POINT = 320' LOT SLOPE = 12'/168' FAR CALCULATION Main Floor = 2354.6 sf Lower Floor = 1938 sf excepted FAR = (-1194 stairs = (-110) TOTAL = 5390.9 sf
Segment len segment len a b c d c f g h i i g i g	gth begi gth elev. 10 4 30 22 3 4 22 3 4 24.5 16 20.04 4 12.08 4 24.5 16 20.04 12.08 4 12.08 4 12.08 2 14.25 2 11.66 4 9 7 7 1 9 7 10 1	A nning 24.5 324.5 324.5 324.5 324.5 325.5 324.5 325 325 325 325 325 325 325 32	nd be lev. 324.5 324.5 324.5 325 325 325 325.5 3	egin cov en 4.50 4.50 4.50 4.50 5.00 5.00 5.00 5.50 5.50 5.50 5.50 5.50 5.50 5.50 4.50 4.50 4.50 4.50 4.50 4.50 4.50	d cover av 4.50 4.50 5.00 5.00 5.00 5.50 5.50 5.50 5.50 5.50 5.50 5.50 5.50 5.50 5.50 5.50 4.50 5.00	rg cover 9% 4.5 4.5 4.5 4.5 5 5 5 5 5 5 5 5 5 5 5 5	50.0% 50.0% 50.0% 52.8% 55.6% 27.8% 30.6% 61.1% 61.1% 61.1% 61.1% 61.1% 58.3% 55.6% 50.0% 50.0% 50.0% 50.0% 50.0%	5.00 2.00 15.00 11.61 1.67 2.22 6.81 4.89 12.25 2.44 7.38 2.44 7.38 2.44 7.21 13.38 1.00 9.46 7.13 1.00 5.83 2.00 4.50 3.50	ASPHALTINROW ASPHALTINROW LOT SLOPE HIGH POINT = 332' LOW POINT = 320' LOT SLOPE = 12'/168' FAR CALCULATION Main Floor = 2354.6 sf Lower Floor = 1938 sf excepted FAR = (-1194 stairs = (-110) TOTAL = 5390.9 sf
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POOL

B. SITE SECTION

1/10" = 1'-0" POOL + HOT TUB STRUCTURAL DRAWINGS TO BE PROVIDED BY DEFERRED SUBMISSION ALL 4 CORNERS OF CABANA ARE AT ELEV. 330, BOTH FINISH AND FINAL GRADE, THEREFOR ABE = 330

8

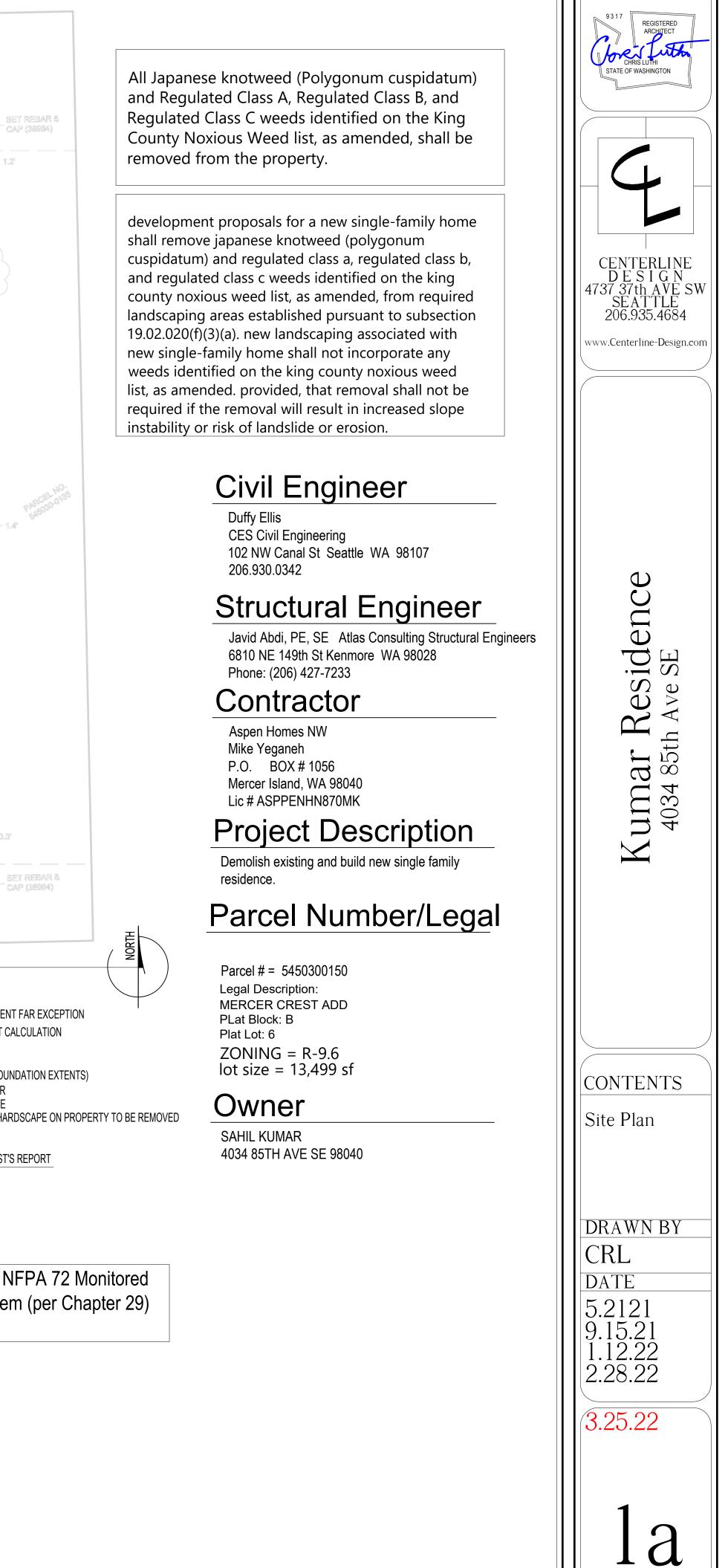
3.00'

16.00'

<u>ABE = 33</u>0

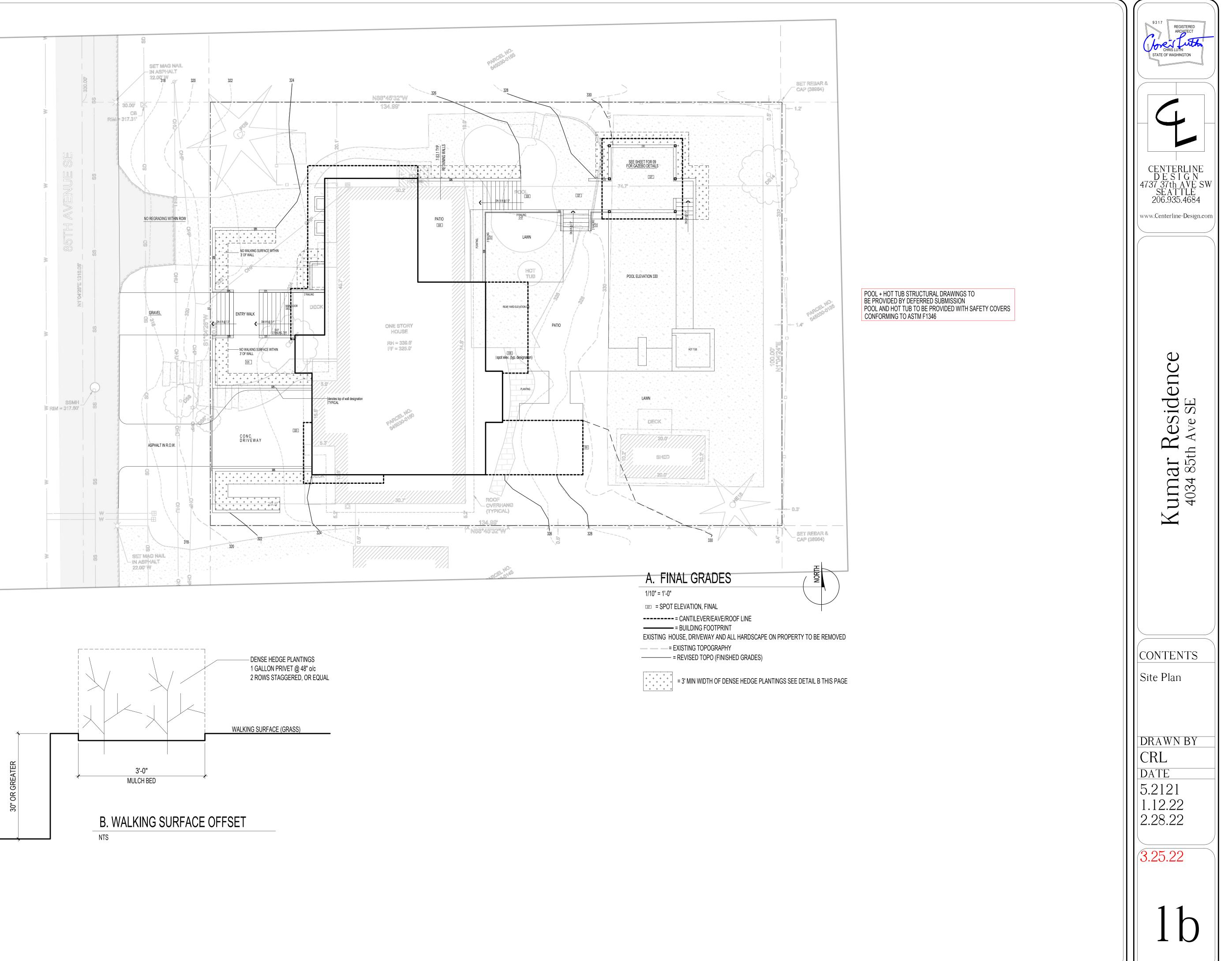
10.0'

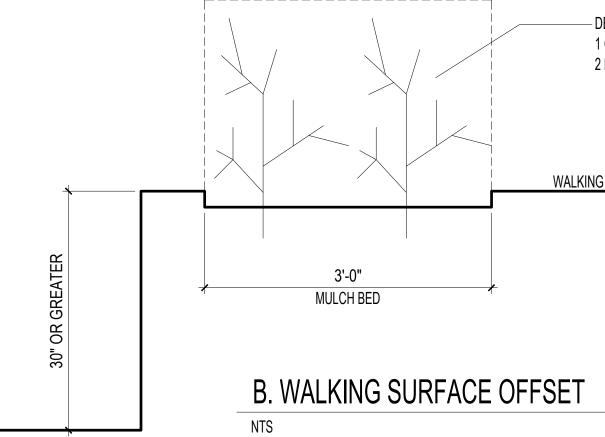
15



SHADED AREA = BLDG EXTENTS TO EAVE EXISTING HOUSE, DRIVEWAY AND ALL HARDSCAPE ON PROPERTY TO BE REMOVED

NFPA 13D and NFPA 72 Monitored Fire Alarm System (per Chapter 29)





NOTES

SD = SMOKE DETECTOR, HARDWIRE, INTERCONNECTED w/ BATTERY BACK-UP CO CARBON MONOXIDE DETECTOR, HARDWIRE w/ BATTERY BACK-UP

DOORS ARE 3-0 x 6-8 (r.o. = 3'-2" x 6'-10") unless otherwise indicated

𝚫 = FAN, 50 CFM UNLESS OTHERWISE INDICATED FOR SHEAR WALL INFORMATION SEE STRUCTURAL PLANS

ALL INTERIOR WALLS TO BE 2x4, EXTERIOR WALLS 2x6, EXCEPT AS INDICATED, OR EXISTING

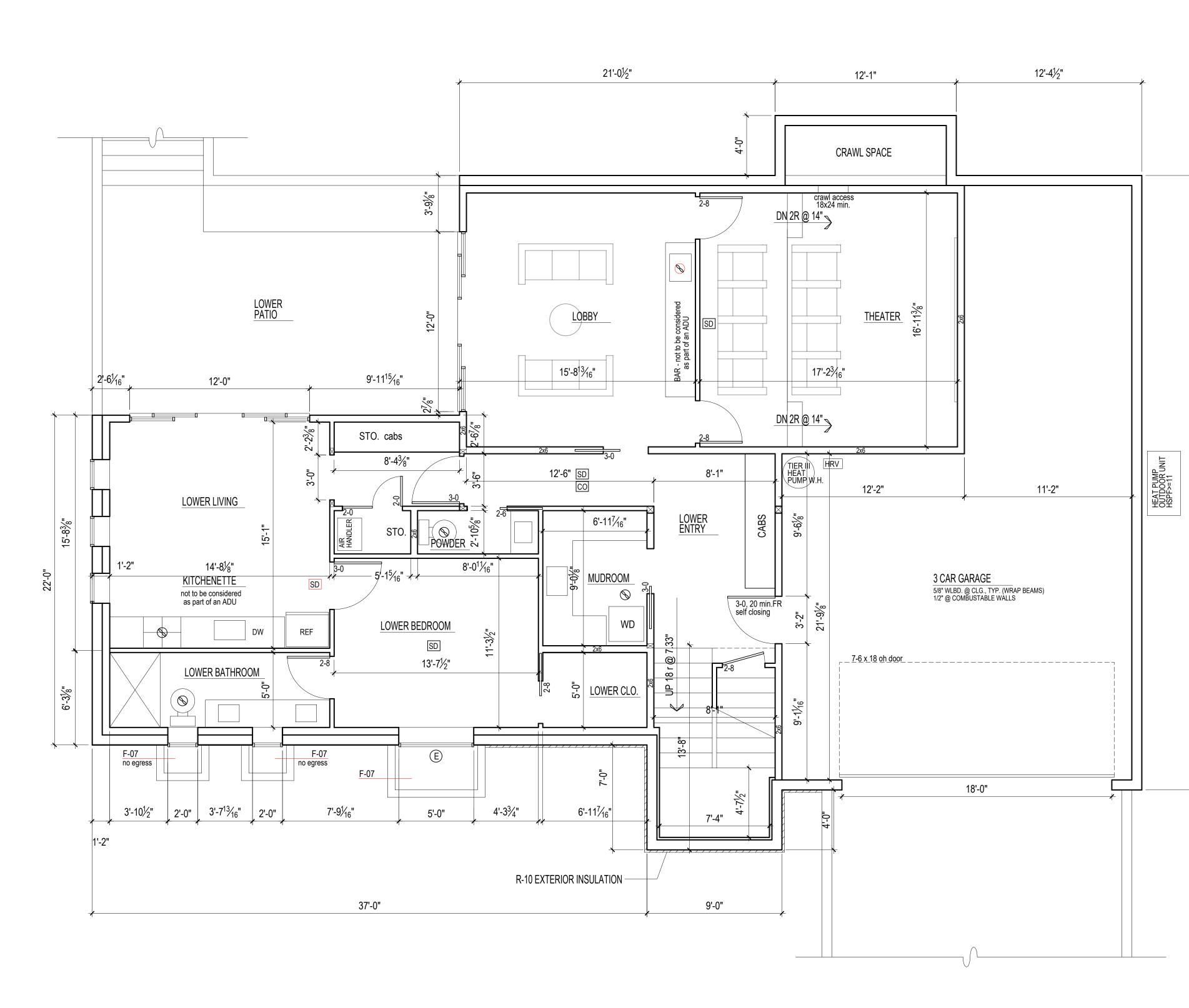
- (E) =EGRESS WINDOWS

Contractor shall verify to Inspector all guards and railings shall be capable of resisting 200 lb load on top rail acting in any direction as required by IRC Table R301.5.

ALL WALLS FULL HIEGHT UNLESS OTHERWISE INDICATED

T) =TEMPER/SAFETY GLAZE WINDOWS

ALL GAS F.P. TO BE APPROVED DIRECT VENT



	9317 REGISTERED ARCHITECT UCHRIS LUTHI STATE OF WASHINGTON
41-0°	Kumar Residence 4034 85th Ave SE
	CONTENTS Lower Floor DRAWN BY
	CRL DATE 6.7.21 1.12.22
LOWER FLOOR PLAN 1/4" = 1'-0" FLOOR AREA = 2403sf GARAGE = 758sf	
	01

NOTES

SD= SMOKE DETECTOR, HARDWIRE, INTERCONNECTED w/ BATTERY BACK-UPCOCARBON MONOXIDE DETECTOR, HARDWIRE w/ BATTERY BACK-UP

DOORS ARE 3-0 x 6-8 (r.o. = 3'-2" x 6'-10") unless otherwise indicated

S = FAN, 50 CFM UNLESS OTHERWISE INDICATED FOR SHEAR WALL INFORMATION SEE STRUCTURAL PLANS

ALL INTERIOR WALLS TO BE 2x4, EXTERIOR WALLS 2x6, EXCEPT AS INDICATED, OR EXISTING

(E) =EGRESS WINDOWS

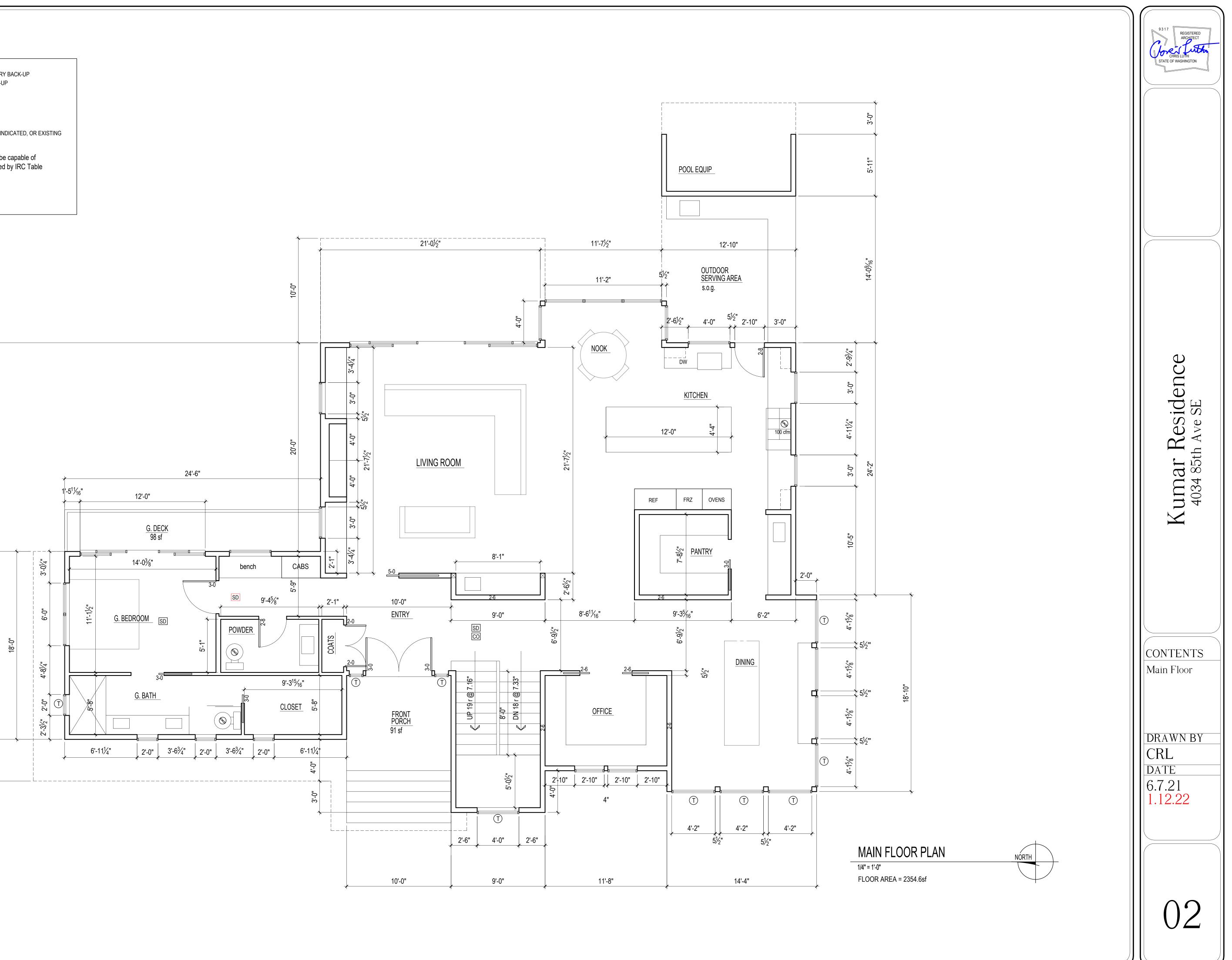
Contractor shall verify to Inspector all guards and railings shall be capable of resisting 200 lb load on top rail acting in any direction as required by IRC Table

R301.5.

ALL WALLS FULL HIEGHT UNLESS OTHERWISE INDICATED

T) =TEMPER/SAFETY GLAZE WINDOWS

ALL GAS F.P. TO BE APPROVED DIRECT VENT



NOTES

SD = SMOKE DETECTOR, HARDWIRE, INTERCONNECTED w/ BATTERY BACK-UP CO CARBON MONOXIDE DETECTOR, HARDWIRE w/ BATTERY BACK-UP

DOORS ARE 3-0 x 6-8 (r.o. = 3'-2" x 6'-10") unless otherwise indicated

S = FAN, 50 CFM UNLESS OTHERWISE INDICATED FOR SHEAR WALL INFORMATION SEE STRUCTURAL PLANS

ALL INTERIOR WALLS TO BE 2x4, EXTERIOR WALLS 2x6, EXCEPT AS INDICATED, OR EXISTING

- E =EGRESS WINDOWS

Contractor shall verify to Inspector all guards and railings shall be capable of

2'-11¾"

2'-0"

5'-9"

2'-0"

5'-9"

2'-0"

-6<u>4</u>

-

22'-0'

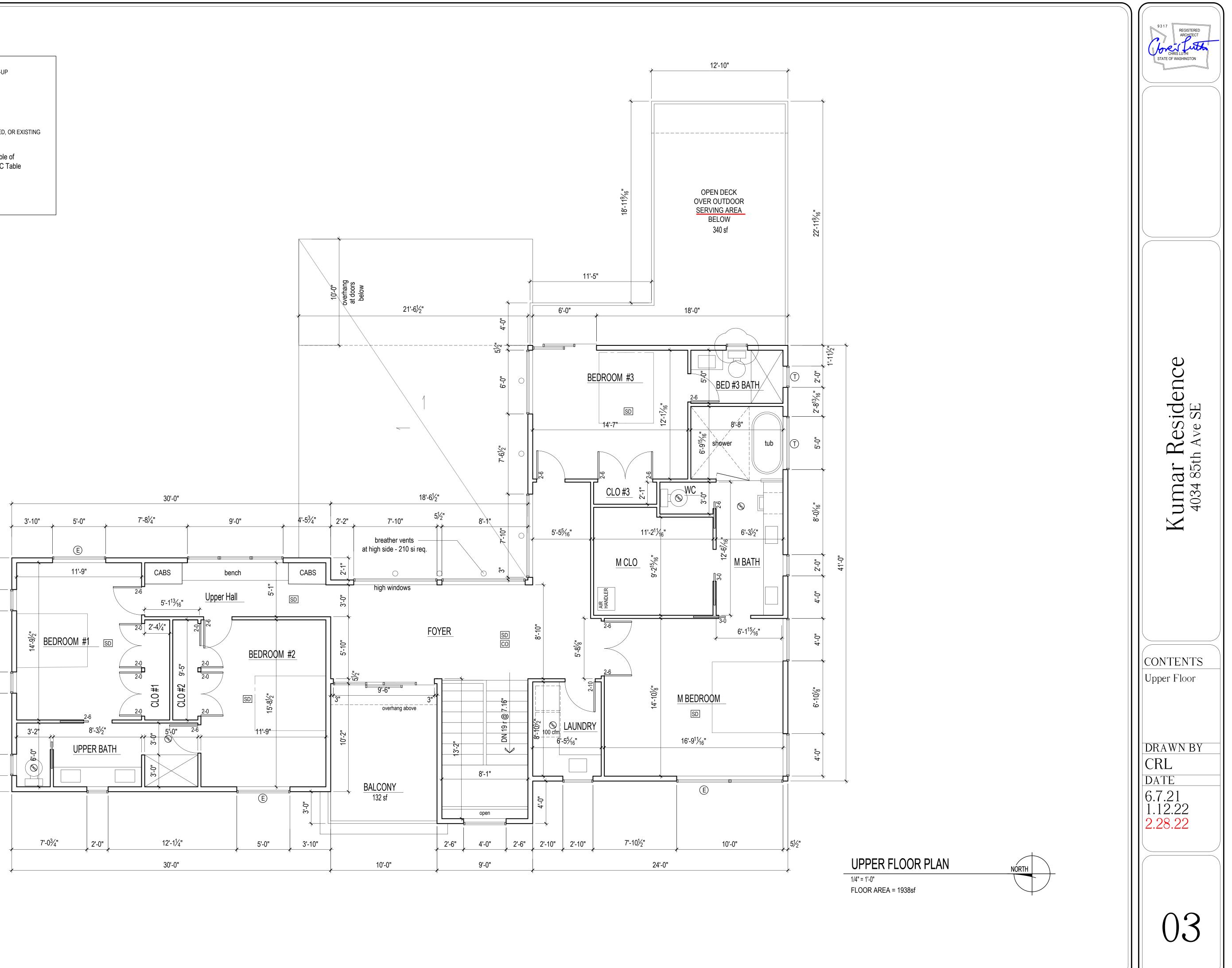
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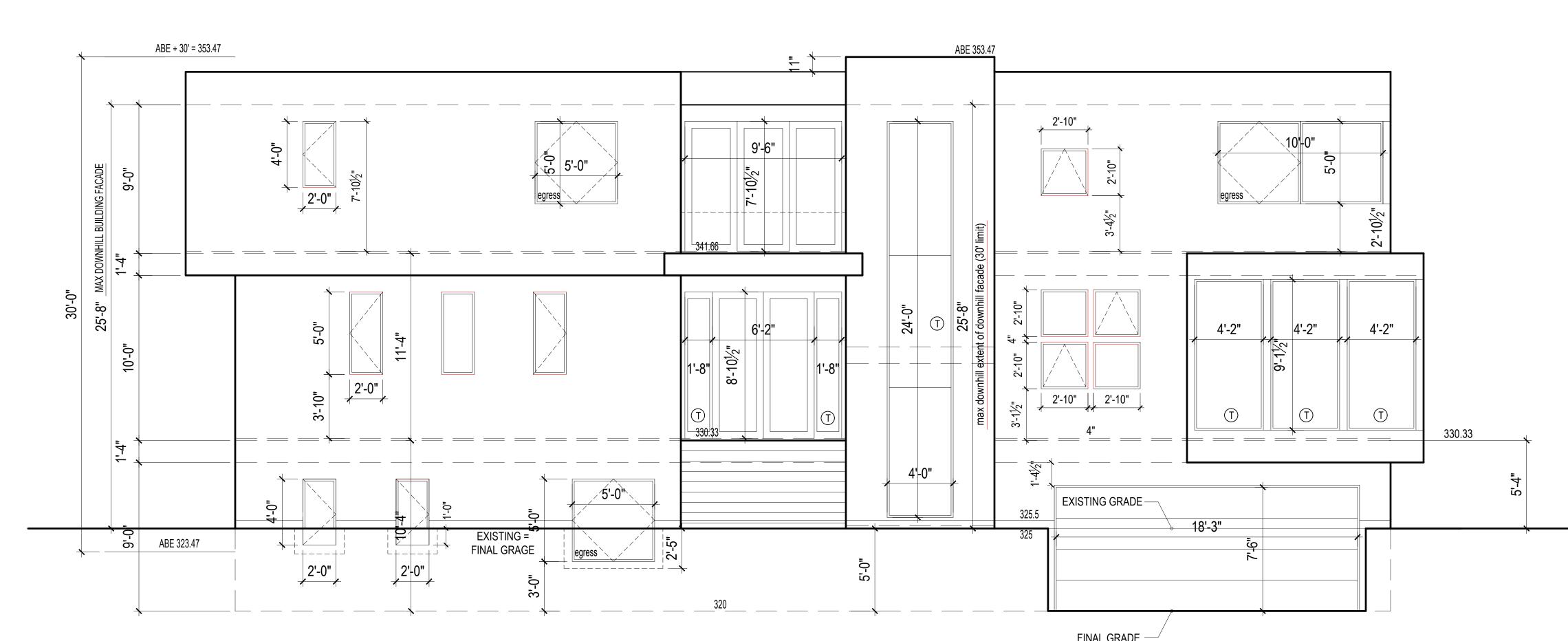
resisting 200 lb load on top rail acting in any direction as required by IRC Table R301.5.

ALL WALLS FULL HIEGHT UNLESS OTHERWISE INDICATED

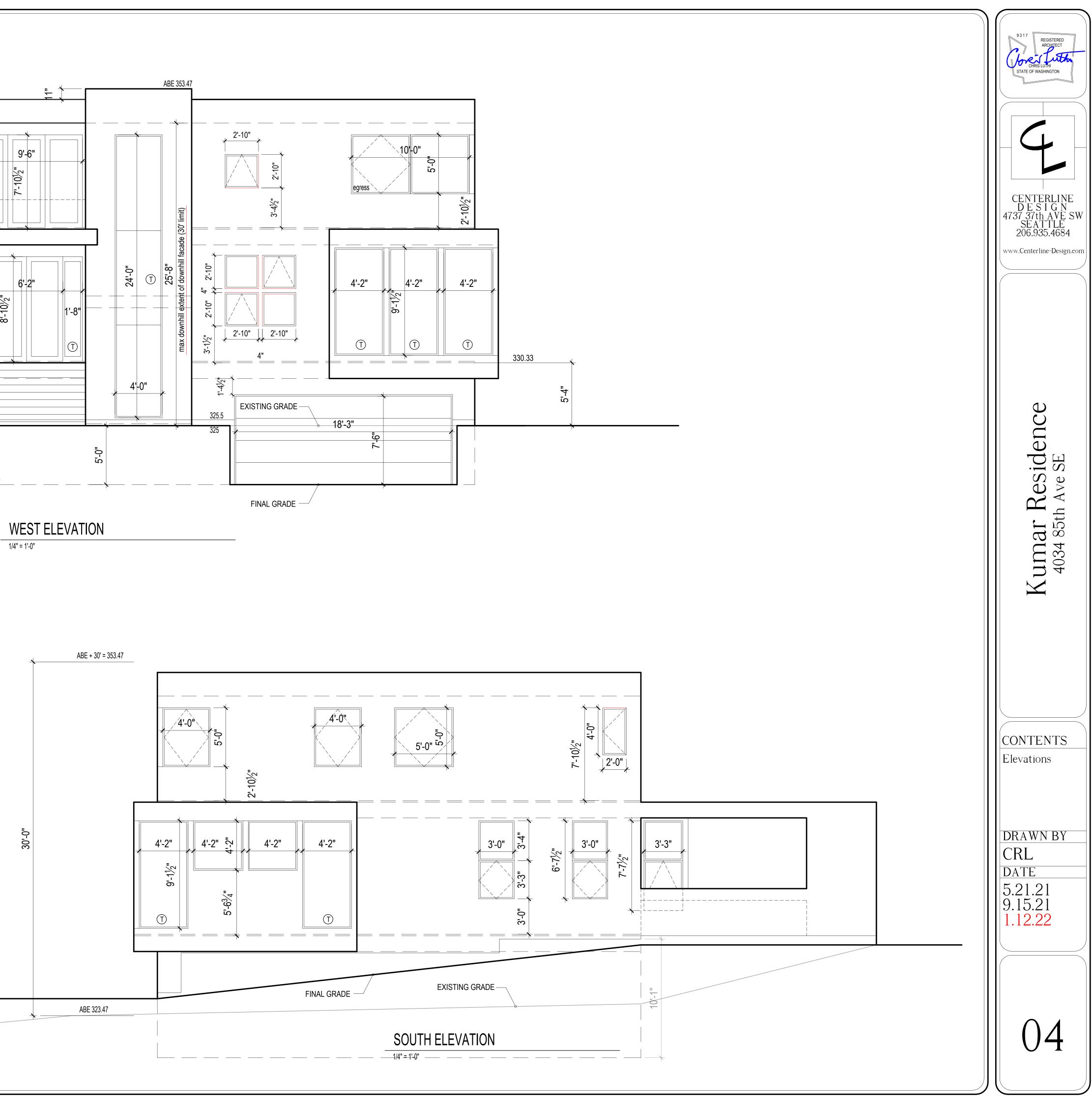
T) =TEMPER/SAFETY GLAZE WINDOWS

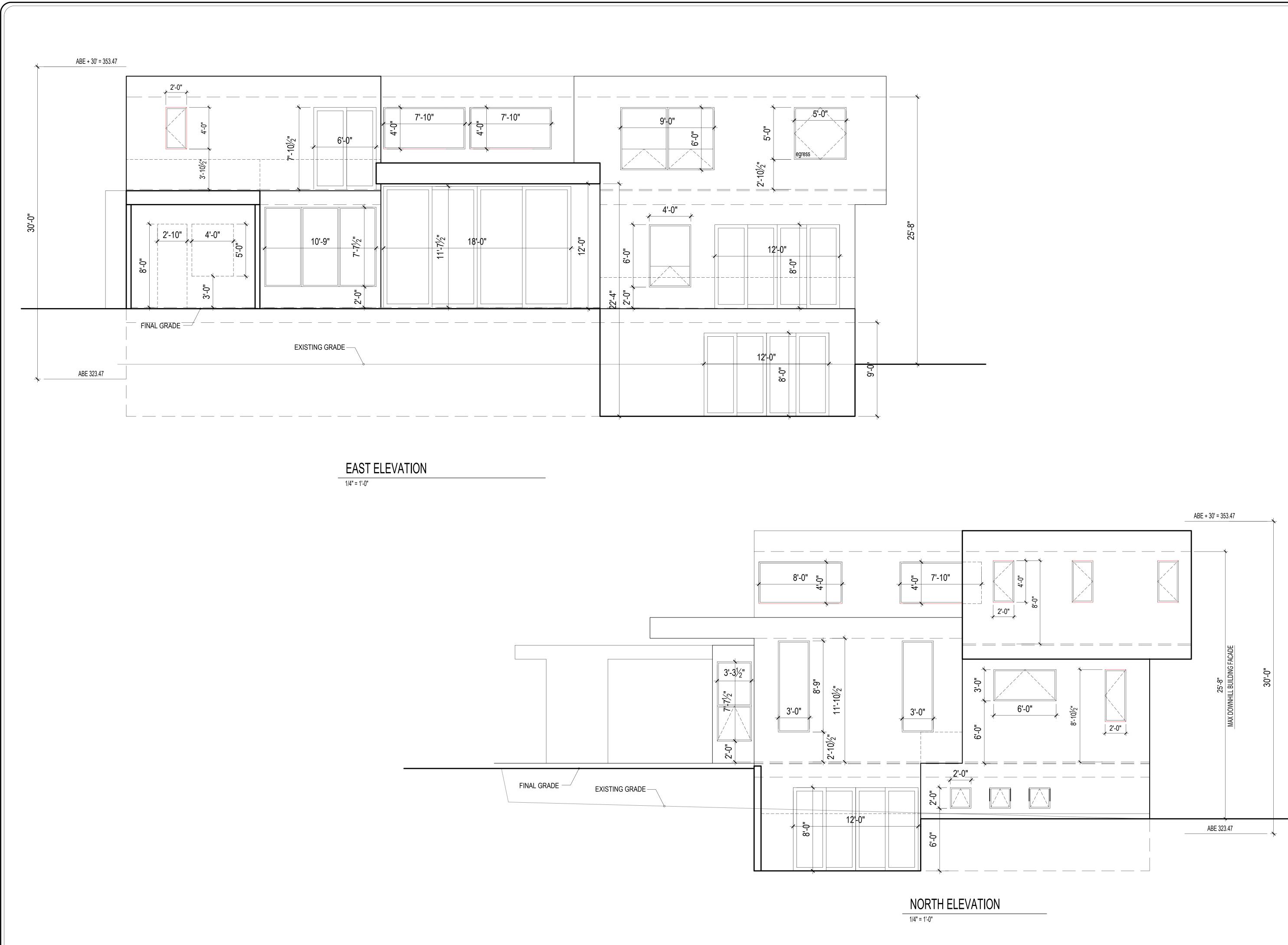
ALL GAS F.P. TO BE APPROVED DIRECT VENT

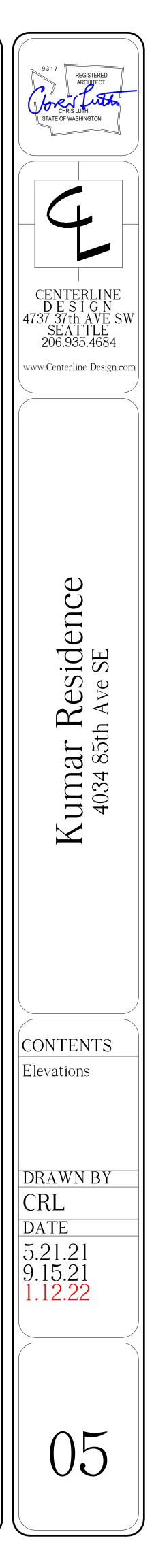


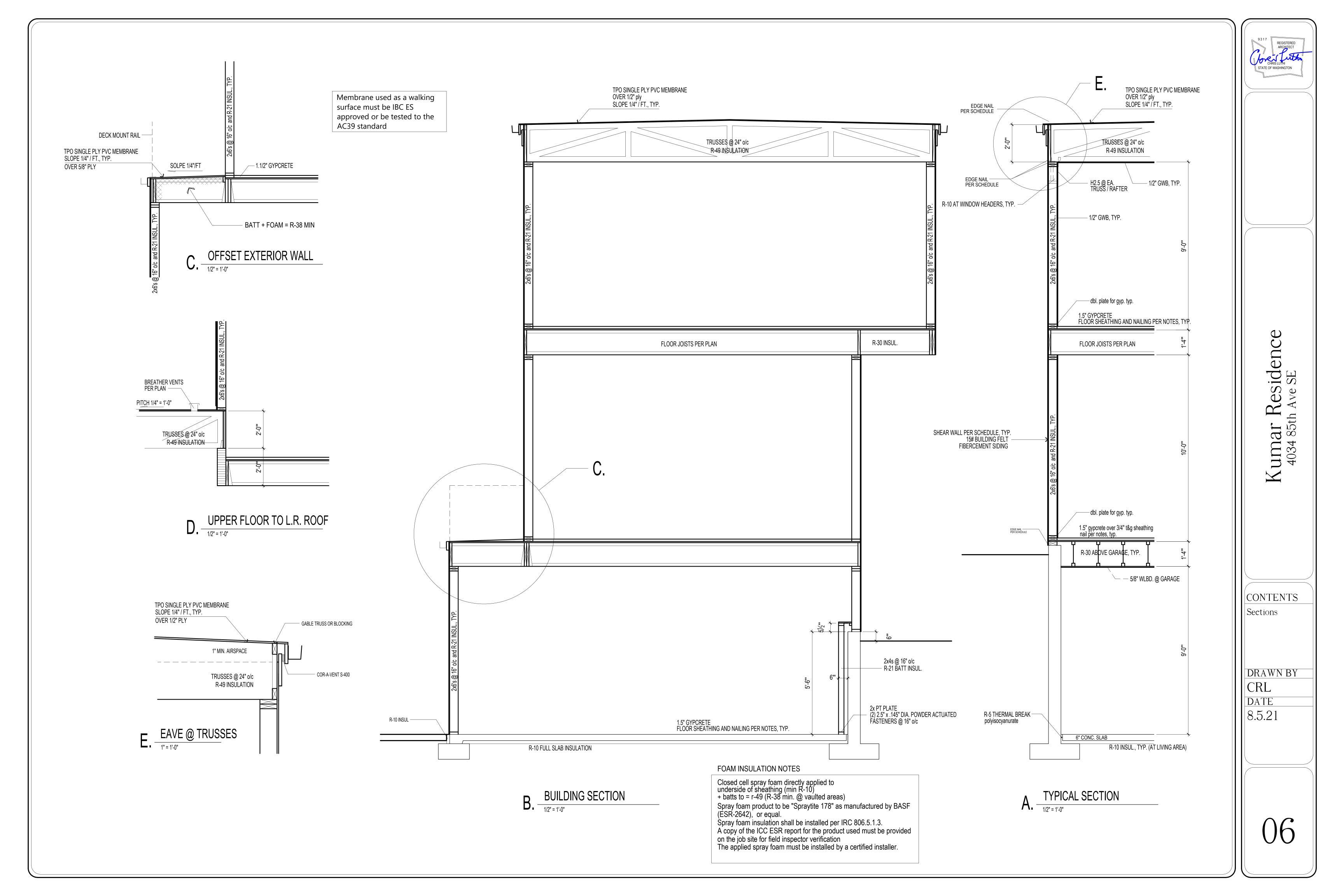


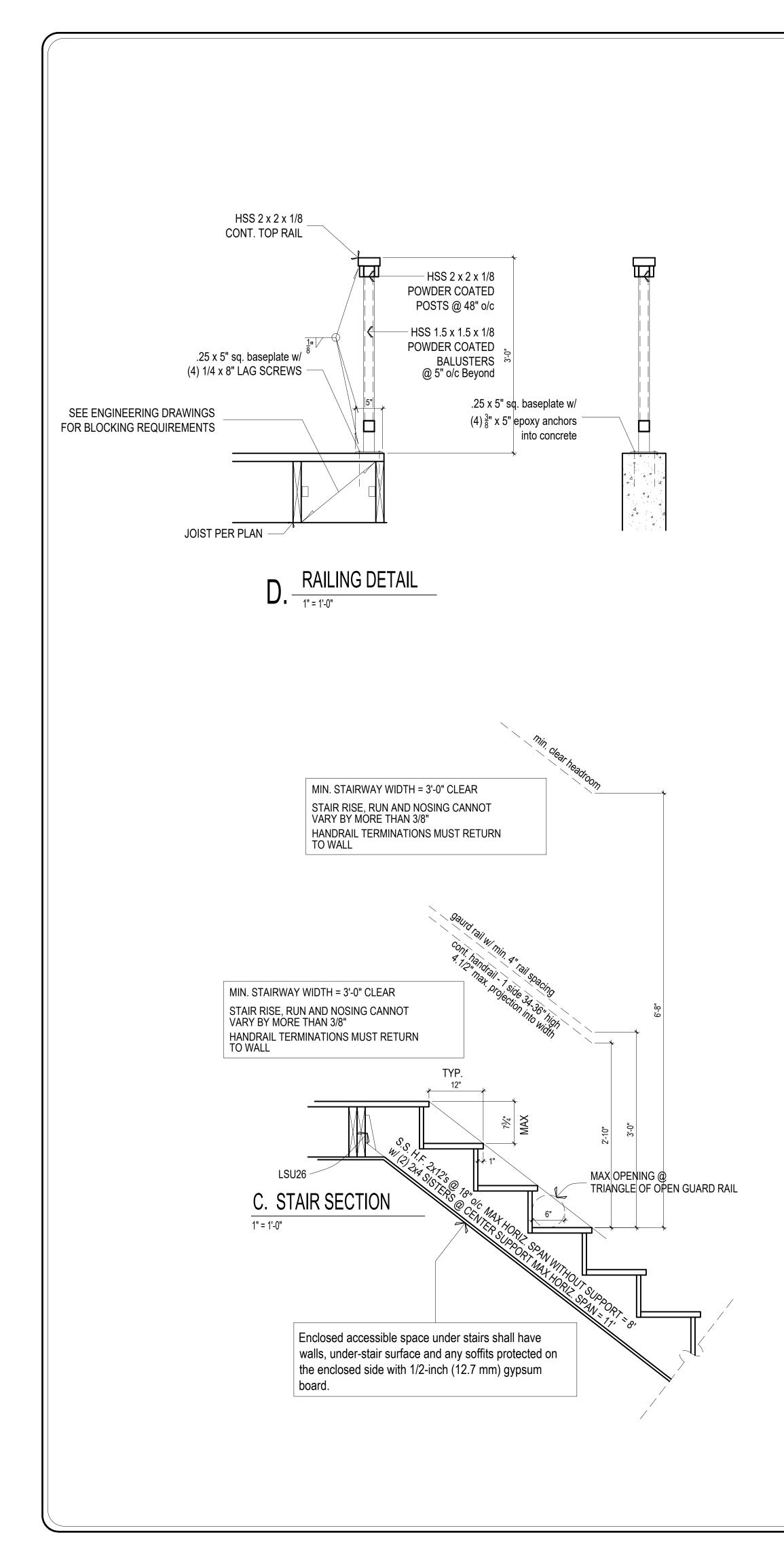
WEST ELEVATION

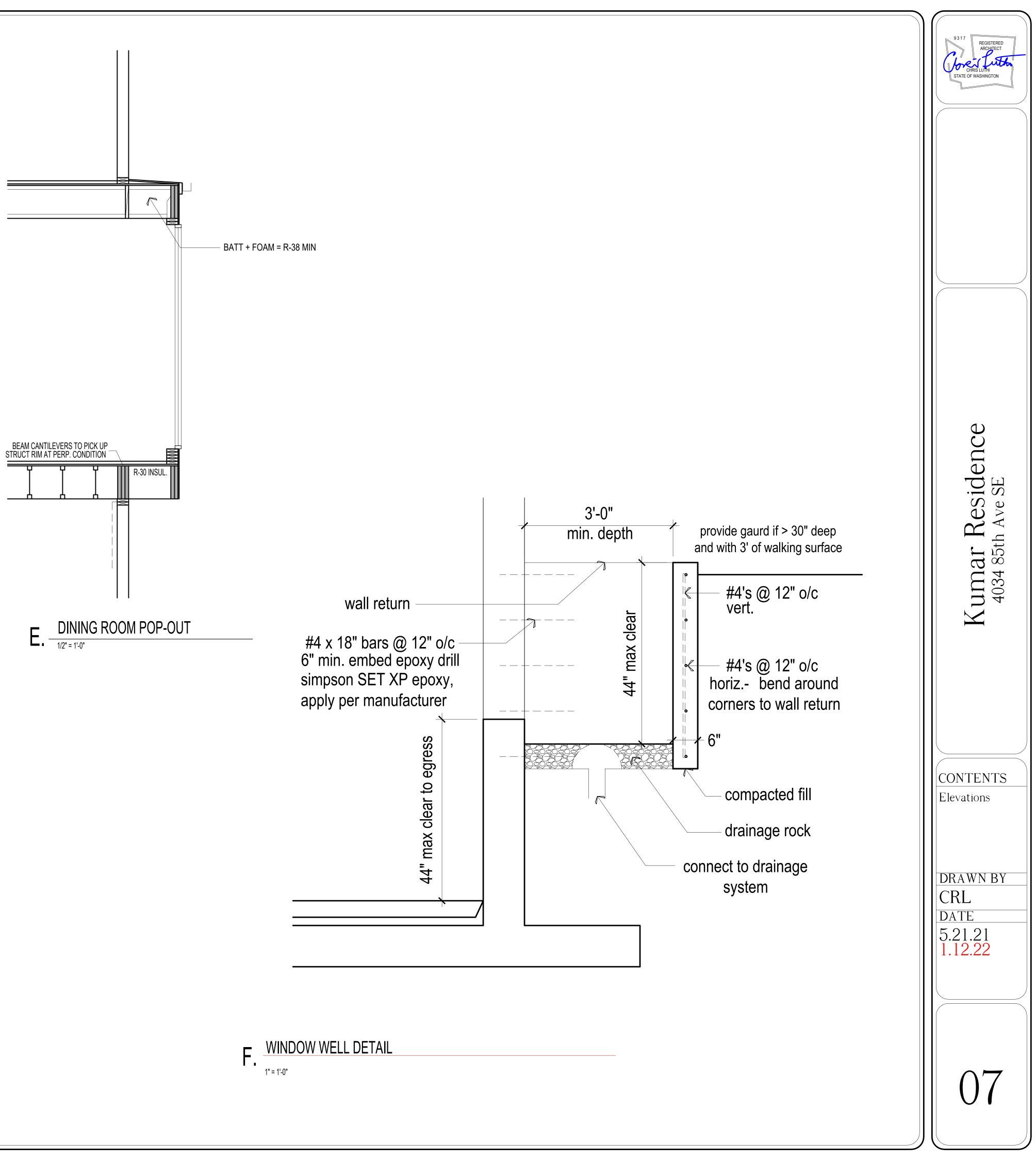












Energy Code Info

2018 WA STATE PRESCRIPTIVE PATH

energy credit option credit value summary

	1.7	0.5	ins. over wall, .28 windows
	2	1	heat pump
	2.2	1	2.0 ACH + HRV
	3.5	1.5	central HP, HSPF>=11
4.1		0.5	AH in heated space
	5.5	2	elec. HP WH
	7.1	0.5	appliance package
total credits		7	

PRIMARY RESIDENCE HVAC NOTES

DUCTED HEAT PUMP (HSPF>11.0) INT. AIR HANDLER HEAT RECOVERY VENTILATION REQUIRED VENTING = CONTINUOUS 120CFM SET TO OPERATE AT 240 CFM FOR 2 HOURS IN EA. 4 HR PERIOD (50%) PROVIDED BY VARIABLE SPEED HIGH EFF. FAN (MAX .35 WATTS/CFM) CONTOLLED TO OPERATE AT LOW SPEED IN VENTILATION MODE ONLY.

design professional or builder shall complete and post an "Insulation Certificate for Residential Construction" within 3' of the electrical panel prior to final inspection.

Maximum flow rates for shower heads and kitchen sink - 1.75 GPM or less. All other lavatory faucets - 1.0 GPM or less.

Per WSEC R402.4, The building thermal Envelope shall be constructed to limit air leakage to 2.0 air changes per hour maximum. The results of the test shall be signed by the party conducting the test and provided to the code official (R402.4.1.2). Per WSEC R403.1.1, at least one thermostat per dwelling unit shall be capable of controlling the heating and cooling system on a daily schedule. Per WSEC R403.2.2, Ducts, air handlers, and filter boxes shall be sealed. Per WSEC R404.1, A minimum of 75 percent of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps.

		All Climate Zones (Table R402.1.1)					
		R-Value ^a U-					
Fenestration U-Factor ^b		n/a	>9.3€ 28				
Sky	light U-Factor ^b	n/a	0.50				
Gla	zed Fenestration SHGC ^{b,e}	n/a	n/a				
Cei	ling ^e	49	0.026				
Wc	ood Frame Wall ^{g,h}	21 int	0.056				
Flo	or	30	0.029				
Bel	ow Grade Wall ^{c,h}	10/15/21 int + TB	0.042				
Slal	b ^{d,f} R-Value & Depth	10, 2 ft	n/a				
a b c d	than the label or design thickn Table A101.4 shall not be less The fenestration <i>U</i> -factor colu "10/15/21 +5TB" means R-10 of the interior of the wall, or R-22 the interior of the basement w the interior of the basement w means R-5 thermal break betw R-10 continuous insulation is r	continuous insulation on the exterior of th L cavity insulation plus a thermal break be vall. "10/15/21 +5TB" shall be permitted t vall plus R-5 continuous insulation on the veen floor slab and basement wall. equired under heated slab on grade floor	alue of the insulation from Appendix ne wall, or R-15 continuous insulation or etween the slab and the basement wall o be met with R-13 cavity insulation on interior or exterior of the wall. "5TB" s. See Section R402.2.9.1.				
е	For single rafter- or joist-vaulter extends over the top plate of t	ed ceilings, the insulation may be reduced he exterior wall.	to R-38 if the full insulation depth				
f	 R-7.5 continuous insulation installed over an existing slab is deemed to be equivalent to the required per f slab insulation when applied to existing slabs complying with Section R503.1.1. If foam plastic is used, it s meet the requirements for thermal barriers protecting foam plastics. 						
g	For log structures developed in <i>climate zone</i> 5 of ICC 400.	n compliance with Standard ICC 400, log v	valls shall meet the requirements for				
h		notes framing and insulation as described 8% of the wall cavity insulated and heade	-				

ENERGY CREDIT DESCRIPTIONS

1.7

Advanced framing and raised heel trusses or rafters Vertical Glazing U-0.28

R-49 Advanced (U-0.020) as listed in Section A102.2.1, Ceilings below a vented attic and R-49 vaulted ceilings with full height of uncompressed insulation extending over the wall top plate at the eaves.

2.2

Compliance based on Section R402.4.1.2: Reduce the tested air leakage to 2.0 air changes per hour at maximum 50 Pascals or

For R-2 Occupancies, optional compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.25 cfm/sf maximum at 50 Pascals and

All whole house ventilation requirements as determined by Section M1507.3 of the International Residential Code or Section 403.8 of the International Mechanical Code shall be met with a heat recovery ventilation system with minimum sensible heat recovery efficiency of 0.65.

3.5

Air-source, centrally ducted heat pump with minimum HSPF of 11.0.

4.1

All supply and return ducts located in an unconditioned attic shall be deeply buried in ceiling insulation in accordance with Section R403.3.7.

For mechanical equipment located outside the conditioned space, a maximum of 10 linear feet of return duct and 5 linear feet of supply duct connections to the equipment may be outside the deeply buried insulation. All metallic ducts located outside the conditioned space must have both transverse and longitudinal joints sealed with mastic. If flex ducts are used, they cannot contain splices.

Duct leakage shall be limited to 3 cfm per 100 square feet of conditioned floor area. Air handler(s) shall be located within the conditioned space.

5.5

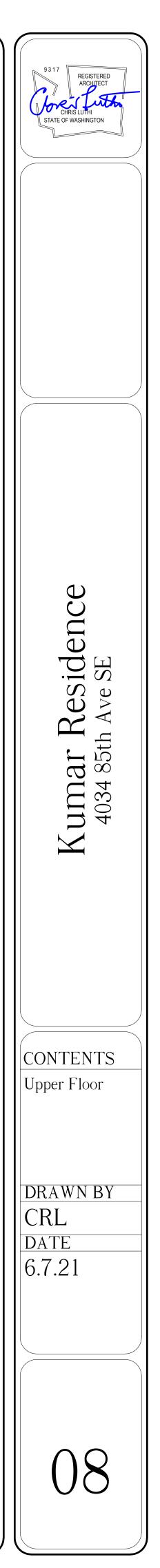
Water heating system shall include one of the following: Electric heat pump water heater meeting the standards for Tier III of NEEA's advanced water heating specification or For R-2 Occupancy, electric heat pump water heater(s), meeting the standards for Tier III of NEEA's advanced water heating specification, shall supply domestic hot water to all units. If one water heater is serving more than one dwelling unit, all hot water supply and recirculation piping shall be insulated with R-8 minimum pipe insulation.

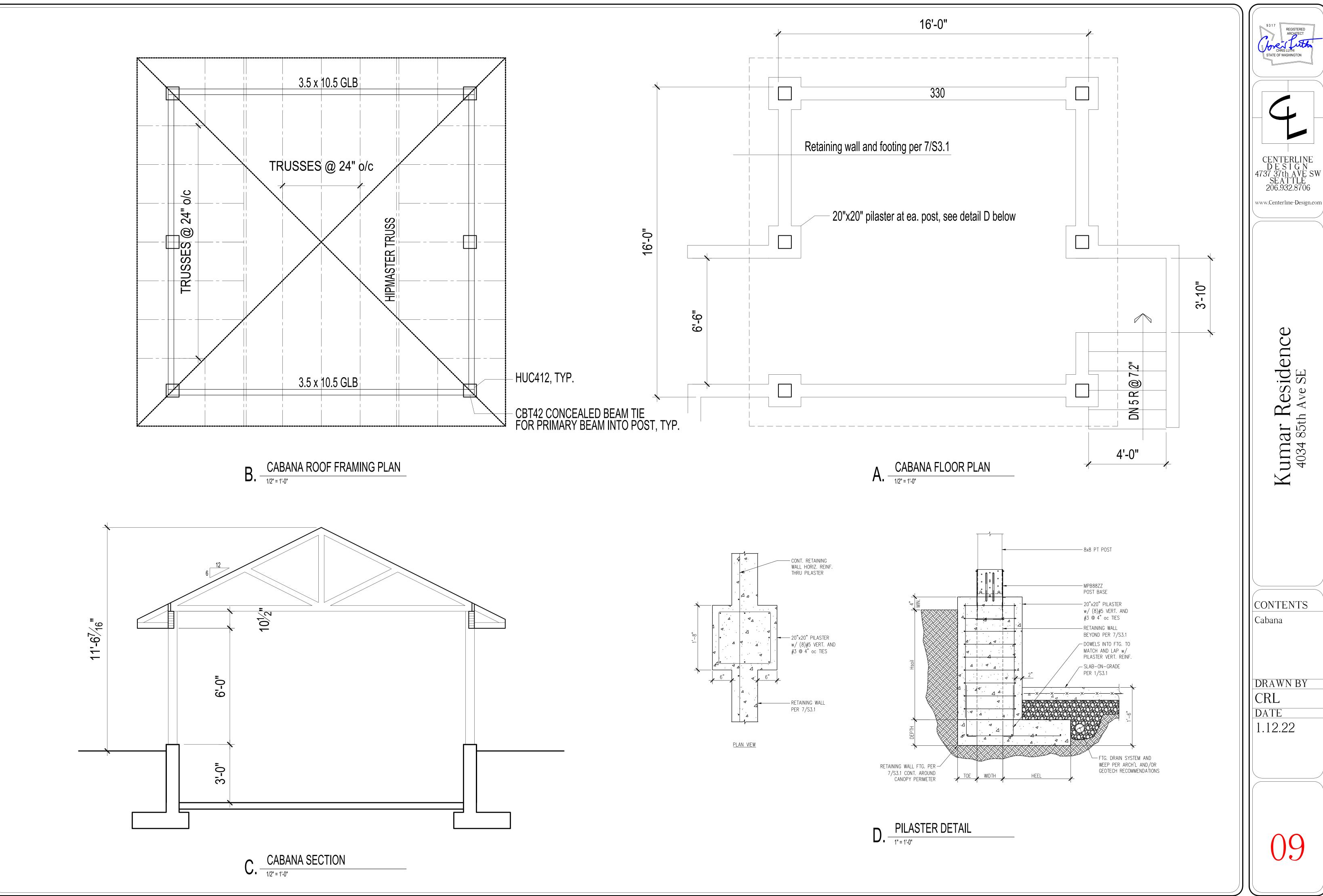
7.1

All of the following appliances shall be new and installed in the dwelling unit and shall meet the following standards: Dishwasher Energy Star rated Refrigerator (if provided) Energy Star rated Washing machine Energy Star rated Dryer Energy Star rated, ventless dryer with minimum CEF rating of 5.2

To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall show the appliance type and provide documentation of Energy Star compliance. At the time of inspection, all appliances shall be installed and connected to utilities. Dryer ducts and exterior dryer vent caps are not permitted to be installed in the dwelling unit.

	D -f		0	Width		A 722
: Swinging Door (24 sq. ft. max.) pt Glazed Fenestration (15 sq. ft. max.)	Ref.	U-factor		. Feet ^{Inc}	Feel	Area 0.0 0.0
I Fenestration (Windows and doors)						0.01
Component Description	Ref.	U-factor	Ot	Width . Feet ^{Inc}	Height	Area
entry		0.28	1	6^{2}	8 ¹¹ 8 ¹¹	54.7
entry stairs		0.28	1	4 ⁰	o 24 ⁰	29.6 96.0
office dining		0.28	1 5	2 ⁶ 4 ²	2 ⁶ 9 ^{1.5}	6.3 190.1
dining		0.28	2	4 ²	4 ²	34.7
kitchen kitchen		0.28	2	3 ⁰ 2 ¹⁰	6 ^{7.5} 8 ⁰	39.8 22.7
kitchen		0.28	1	2 4	8 5 ⁰	22.7
nook		0.28	1	10 ⁹ 3 ^{3.5}	7 ^{7.5} 7 ^{7.5}	82.0 50.2
nook Ir		0.28 0.28	2	18 ⁰	7 11 ^{7.5}	50.2 209.3
lr		0.28	2	3 ⁰	8 ⁹	52.5
hall g bed		0.28 0.28	1	4 12 ⁰	8 ⁰	24.0 96.0
g bed		0.28	1	6 ⁰	3 ⁰	18.0
g bath laundry		0.28 0.28	4 1	2 ⁰ 2 ¹⁰	2 ¹⁰	40.0 8.0
m bed		0.28	1	10 ⁰	5 ⁰	50.0
m bed m bath		0.28 0.28	2 1	4 ⁰ 5 ⁰	5 5 ⁰	40.0 25.0
bed3 bath		0.28	2	2 ⁰	4 ⁰ 7 ¹¹	16.0
bed3 bed3		0.28	1	6 ⁰ 8 ⁰	7 ¹¹ 4 ⁰	47.3 32.0
foyer		0.28	1	9 ⁶	7 ¹¹	74.8
foyer up hall		0.28	3 1	7 ¹⁰ 9 ⁰	4 ⁰ 6 ⁰	94.0 54.0
bed1		0.28	1	5 ⁰	5 ⁰	25.0
bed1up bath		0.28	2	2 ⁰ 2 ⁰	4 ⁰ 4 ⁰	16.0 16.0
bed2		0.28	1	5 ⁰	5 ⁰	25.0
low bed low bath		0.28	2	5 ⁰ 2 ⁰	5 ⁰ 4 ⁰	25.0 16.0
low liv low liv lobby	Vertica	0.28 0.28 0.28 0.28 Sum of Verti				12.0 96.0 96.0 0.0 0.0 0.0 0.0 0.0 0.0 1833.8
ad Glazing (Skylights) Component Description	Ref.	U-factor	Qt	Width . Feet ^{Inc}	Height [°] Feet ^{Inch}	Area
						0.0
						0.0
						0.0
						0.0
		Sum of O	verhead O	lazing Are	a and UA	0.0
	Over	rhead Glazing				0.0
otal Sum of Fenestration Area	and U	A (for heati	ng syster	n sizin <u>g</u> c	alculation	s) 1833.8
			5 ,			





1.	ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE 2018 INTERNATIONAL BUILDING CODE (IBC).
2.	DESIGN LOADING CRITERIA RISK CATEGORY IBC TABLE 1604.5 ROOF SNOW LOAD DECK DEAD LOAD LIVE LOAD DECK LIVE LOAD GOR DEAD LOAD GOR DEAD LOAD GOR DEAD LOAD RISK CATEGORY IBC TABLE 1604.5 RISK CATEGORY IBC TABLE 1604.5 II ROOF SNOW LOAD 25 PSF IVE LOAD 25 PSF DECK LIVE LOAD 40 PSF DECK LIVE LOAD 60 PSF FLOOR DEAD LOAD 36 PSF
	EARTHQUAKE
	WIND
3.	STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY AND SHALL NOTIFY ENGINEER OF ALL DISCREPANCIES PRIOR TO CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE BUILDING LAYOUT DIMENSIONS (GRID LAYOUTS, SITE COORDINATES, ETC.) AMONGST ALL TRADES, INCLUDING SHOP FABRICATED ITEMS.
4.	CONTRACTOR SHALL PROVIDE TEMPORARY BRACING, BOTH FOR VERTICAL LOADS AND LATERAL STABILITY FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE DRAWINGS.
5.	CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK.
6.	DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER.
7.	ALL STRUCTURAL SYSTEMS COMPOSED OF COMPONENTS TO BE FIELD ERECTED SHALL BE SUPERVISED B THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.
8.	SEISMIC BRACING AND/OR GRAVITY SUPPORT AND ANCHORAGE OF ALL MECHANICAL OR ELECTRICAL EQUIPMENT SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON, EXCEPT FOR ELEMENTS SPECIFICALLY SHOWN AND DETAILED ON THE STRUCTURAL DRAWINGS. THE MECHANICAL/ELECTRICAL CONTRACTOR MUST HIRE THE ENGINEER AND IS RESPONSIBLE FOR ALL COSTS RELATED TO THE PURCHASE AND INSTALLATION OF NECESSARY SUPPORTS, BRACING AND ANCHORAGE. SEISMIC BRACING AND ANCHORAGE DESIGN AND CONSTRUCTION SHALL COMPLY WITH CHAPTER 13 OF ASCE 7–10.
9.	SHOP DRAWING REVIEW: SHOP DRAWINGS FOR TRUSSES SHALL BE SUBMITTED TO THE CONTRACTOR, ARCHITECT, AND ENGINEER OF RECORD FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS. DIMENSION AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD, AND THEREFORE MUST BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY ENGINEER OF RECORD. SUBMITTALS SHALL INCLUDE A REPRODUCIBLE AND ONE COPY. THE REPRODUCIBLE SHALL BE MARKED AND RETURNED. SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS. THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT BY INDICATING WHICH MATERIAL IS INTENDED TO BE FURNISHED AND INSTALLED AND BY DETAILING THE INTENDED FABRICATION AND INSTALLATION METHODS. IF DEVIATIONS, DISCREPANCIES, OF CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS ARE DISCOVERED EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER, THE DESIG DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.
10.	DEFERRED SUBMITTALS SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF WASHINGTON THE COMPONENT DESIGNER SHALL BE A REGISTERED STRUCTURAL ENGINEER IF REQUIRED BY THE BUILDING OFFICIAL OF THE LOCAL JURISDICTION. BUILDING COMPONENT SUBMITTALS SHALL INCLUDE THE DESIGNING PROFESSIONAL ENGINEER'S STAMP AND SHALL BE APPROVED BY THE COMPONENT DESIGNER PRIOR TO CURSORY REVIEW BY THE ENGINEER OF RECORD FOR LOADS IMPOSED ON THE BASIC STRUCTURE. THE COMPONENT DESIGNER IS RESPONSIBLE FOR CODE CONFORMANCE INCLUDING ACCOMMODATION FOR STRUCTURAL DISPLACEMENT PER ASCE 7–10 SECTION 13.3.2. AND ALL NECESSAR CONNECTIONS NOT SPECIFICALLY CALLED OUT ON ARCHITECTURAL OR STRUCTURAL DRAWINGS. DEFERRE SUBMITTALS SHALL INDICATE MAGNITUDE AND DIRECTION OF ALL LOADS IMPOSED ON BASIC STRUCTURE. DESIGN CALCULATIONS SHALL BE INCLUDED IN THE SUBMITTAL. THE CONTRACTOR SHALL FORWARD DEFERRED SUBMITTALS TO THE BUILDING OFFICIAL AND HAVE THE DEFERRED SUBMITTALS ON SITE FOR THE GOVERNING JURISDICTIONS INSPECTORS USE AND REFERENCE. THE FOLLOWING BUILDING COMPONENT SHALL BE DEFERRED SUBMITTALS FOR THIS PROJECT: PREFABRICATED CONNECTOR PLATE WOOD ROOF TRUSSES (SEE NOTE 23)
	ECHNICAL: FOUNDATION NOTES: SUBGRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION, AND FILLING REQUIREMENTS, SHALL CONFORM STRICTLY WITH THE RECOMMENDATIONS GIVEN IN THE SPECIFICATIONS OR AS DIRECTED BY THE OWNER APPOINTED GEOTECHNICAL ENGINEER. FOOTINGS SHAL BEAR ON FIRM, UNDISTURBED EARTH OR CONTROLLED, COMPACTED STRUCTURAL FILL AT LEAST 18" BELOW LOWEST ADJACENT FINISHED GRADE AT THE EXTERIOR; AND 12" AT THE INTERIOR. THE OWNER APPOINTED GEOTECHNICAL ENGINEER SHALL APPROVE FOOTING EXCAVATION/PREPARATION PRIOR TO PLACEMENT OF ALL FOOTINGS. BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING, GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE AS NOTED IN THE SPECIFICATIONS OR AS DIRECTED BY THE OWNER APPOINTED GEOTECHNICAL ENGINEER ALLOWABLE SOIL PRESSURE
	HORAGE: DRIVE PINS AND OTHER POWDER-ACTUATED FASTENERS SHALL BE ONE OF THE FOLLOWING INSTALLED IN STRICT ACCORDANCE WITH THE ICC-ES REPORTS INDICATED AND MANUFACTURER'S INSTRUCTIONS INCLUDING MINIMUM EMBED REQUIREMENTS: "TE SERIES" (0.157" DIAMETER) AS MANUFACTURED BY ITW RAMSET (ICC-ES NO. 1799); OR "X-U" (0.157" DIAMETER) AS MANUFACTURED BY HILTI, INC. (ICC-ES NO. 2269); OR "STRONG-TIE PDPA" (0.157" DIAMETER) AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. (ICC-ES NO. 2138); OR "CSI PIN" (0.157" DIAMETER) AS MANUFACTURED BY DEWALT/POWERS (ICC-ES NO. 2024); OR AN APPROVED EQUIVALENT IN STRENGTH AND EMBEDMENT. MINIMUM EMBEDMENT IN CONCRETE SHALL BE 1" UNLESS OTHERWISE NOTED. MAINTAIN AT LEAST 3-1/2" TO NEAREST CONCRETE EDGE.
	CRETE:CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH ACI 318-14CHAPTER 26 AND ACI 301. CONCRETE SHALL ATTAIN A 28-DAY STRENGTH OF f'c = 4,000 PSI (4,500PSI AT ALL CONCRETE EXPOSED TO WEATHER). MAXIMUM WATER-CEMENTITIOUS MATERIAL RATIO FORINTERIOR SLABS SHALL BE BETWEEN 0.40 AND 0.44. ALL CONCRETE SHALL BE EXPOSURE CLASSES F0,S0, WO, AND CO PER ACI 318-14 TABLES 19.3.1.1 AND 19.3.2.1 EXCEPT AS NOTED BELOW.ALL CONCRETE EXPOSED TO EARTH (FOUNDATIONS, ETC.):(F0, S0, W0, C1)ALL CONCRETE EXPOSED TO WEATHER:(F1, S0, W0, C1)
	SEE SPECIFICATIONS FOR SHRINKAGE REDUCING CONCRETE MIX CRITERIA WHERE INDICATED ON DRAWINGS CONCRETE MIXES SHALL MEET OR EXCEED THE REQUIREMENTS SPECIFIED ABOVE. MIXES SHALL BE SUBMITTED TO THE ENGINEER AND BUILDING OFFICIAL FOR APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE AND SHALL INCLUDE THE AMOUNTS OF CEMENT, CEMENTITOUS MATERIAL, FINE AND COARSE AGGREGATE, WATER AND ADMIXTURES, AS WELL AS THE WATER-CEMENT RATIO, SLUMP, CONCRETE YIELD AND SUBSTANTIATING STRENGTH DATA IN ACCORDANCE WITH ACI 318–14, CHAPTER 26 AND 27. REVIEW OF MIX SUBMITTALS BY THE ENGINEER OF RECORD INDICATES ONLY THAT INFORMATIOI PRESENTED CONFORMS GENERALLY WITH CONTRACT DOCUMENTS. CONTRACTOR OR SUPPLIER MAINTAINS FULL RESPONSIBILITY FOR SPECIFIED PERFORMANCE.
14.	REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, fy = 60,000 PSI. GRADE 60 REINFORCING BARS WHICH ARE TO BE WELDED SHALL CONFORM TO ASTM A706. REINFORCEMENT COMPLYING WITH ASTM A615(S1) MAY BE WELDED ONLY IF MATERIAL PROPERTY REPORTS INDICATING CONFORMANCE WITH WELDING PROCEDURES SPECIFIED IN A.W.S. D1.4 ARE SUBMITTED. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064.

General Structural Notes (GSN's)

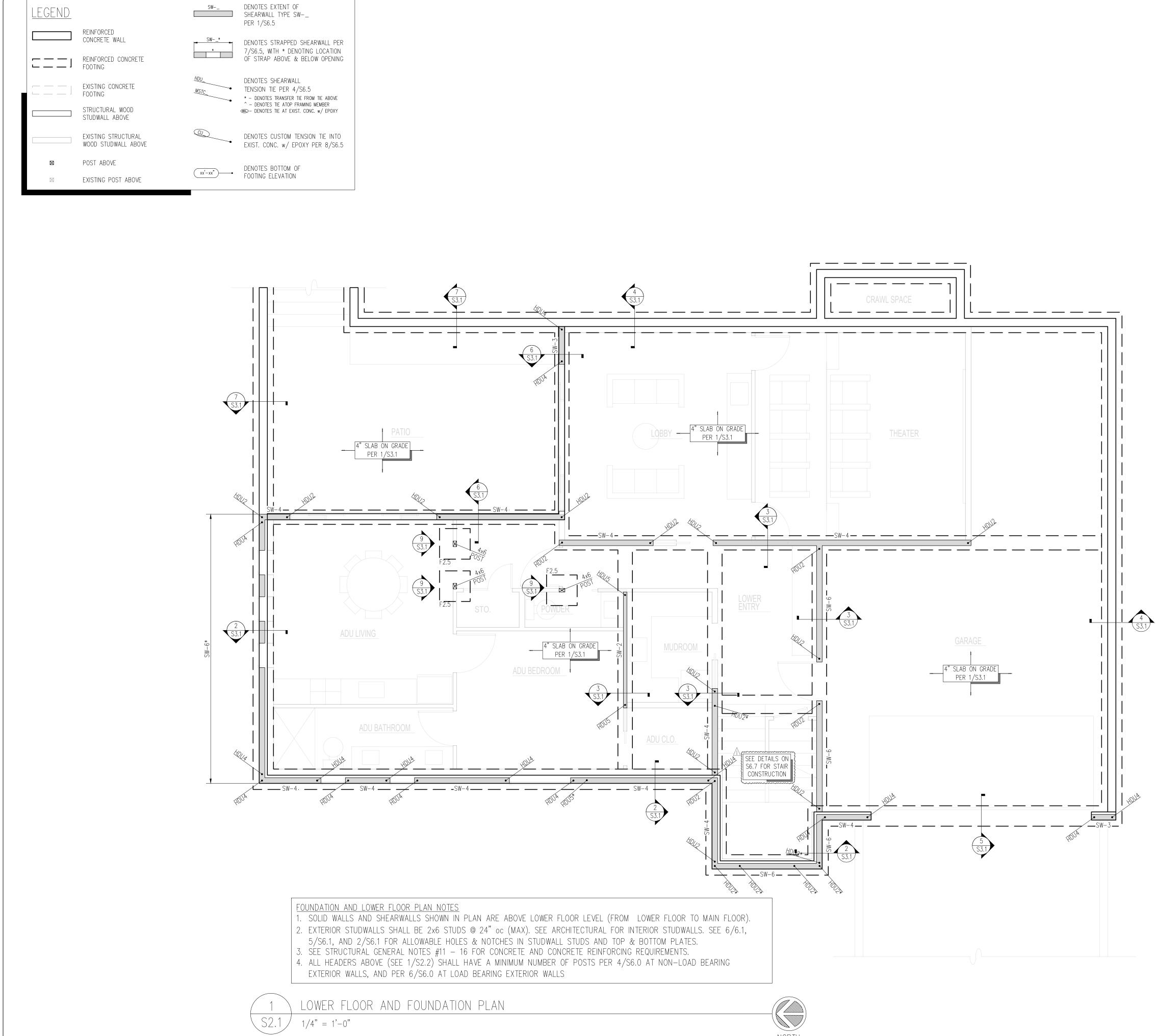
15.	REINFORCING STEEL SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE 315–99 AND 318–14. LAP ALL CONTINUOUS REINFORCEMENT IN ACCORDANCE WITH "SPLICE AND DEVELOPMENT LENGTH SCHEDULE" OF 10/S3.1. PROVIDE CORNER BARS FOOTING INTERSECTIONS. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM AND ENDS. NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD OTHERWISE NOTED ON THE DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
16.	CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS: FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH FORMED SURFACES EXPOSED TO EARTH (i.e. WALLS BELOW GROUND)OR WEATHER (#5 BARS OR SMALLER)
17.	BONDING AGENT SHALL BE "MASTEREMACO ADH 326" BY BASF CORPORATION. OR EQU SHALL BE USED WHERE NEW CONCRETE IS PLACED AGAINST HARDENED CONCRETE. F ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, INCLUDING PREPARATION OF EXIS CONCRETE SHALL BE CONSIDERED HARDENED AFTER 56 DAYS.
18.	NON-SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHPLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. GROUT SAT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (6,000 PSI MINIMUM).
<u>WOOE</u> 19.):FRAMING LUMBER SHALL BE KILN DRIED OR MC-19, AND GRADED AND MARKED IN COW.C.L.I.B. STANDARD GRADING RULES FOR WEST COAST LUMBER NO. 17 OR W.W.P.A. WGRADING RULES. FURNISH TO THE FOLLOWING MINIMUM STANDARDS:PLATES, LEDGERS & MISC.LIGHT FRAMING:DOUGLAS FIR NO. 3 OR STUD GRADEJOISTS, BEAMS & POSTS:DOUGLAS FIR NO. 1MIN. BASIC DESIGN STRESS, $F_b = 1000$ F
20.	$\label{eq:fc} F_c = 1500 \ \text{I}$ MANUFACTURED LUMBER SHALL BE AS MANUFACTURED BY TRUS JOIST OR APPROVED FOR APPROVAL AS EQUAL WILL REQUIRE SUBMITTAL OF ICC REPORT EQUIVALENT TO E LAMINATED VENNER LUMBER (LVL, LAMINATED STRAND LUMBER (LSL), OR PARALLEL S (PSL). THE MINIMUM ALLOWABLE DESIGN VALUES ARE AS FOLLOWS: $\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$
21.	ENGINEERED WOOD I-JOISTS SHALL BE FURNISHED AND INSTALLED IN CONFORMANCE MANUFACTURER'S INSTRUCTIONS. ALL NECESSARY BRIDGING, BLOCKING, BLOCKING PAN ETC., SHALL BE DETAILED AND FURNISHED BY THE MANUFACTURER. PERMANENT AND BRIDGING SHALL BE INSTALLED IN CONFORMANCE WITH MANUFACTURER'S INSTRUCTION HANGERS AND OTHER HARDWARE SHALL BE COMPATIBLE IN SIZE WITH ENGINEERED WO PROVIDED. DESIGN SHOWN ON THE DRAWINGS IS BASED ON RESIDENTIAL JOISTS MANU WEYERHAUSER IN ACCORDANCE WITH ICC-ES REPORT NO. ESR-1153. ALTERNATE ENGIN I-JOISTS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE STRUCTURAL EN
22	GLUED LAMINATED MEMBERS SHALL BE FABRICATED IN CONFORMANCE WITH ASTM AND

		Minimum Connectors a	and Fasteners for Wo	od Members
. REINFORCING STEEL SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 315–99 AND 318–14. LAP ALL CONTINUOUS REINFORCEMENT IN ACCORDANCE WITH "REINFORCEMENT	28. WOOD FRAMING NOTES: THE FOLLOWING SHALL APPLY UNLESS OTHERWISE NOTED ON THE DRAWINGS: A. ALL WOOD FRAMING DETAILS SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE	DESCRIPTION OF BUILDING ELEMENT	NUMBER AND TYPE OF FASTENERS	SPACING & LOCATION
SPLICE AND DEVELOPMENT LENGTH SCHEDULE" OF 10/S3.1. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 12" AT SIDES AND ENDS. NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS OTHERWISE NOTED ON THE DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.	IBC. MINIMUM NAILING SHALL CONFORM TO IBC TABLE 2304.9.1 OR CURRENT ICC-ES REPORT NER-272. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. INSTALL WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. INSTALLATION OF LAG SCREWS SHALL CONFORM TO 2012 NDS SECTION 11.1.4, AND INSTALLATION OF BOLTS SHALL CONFORM TO 2012 NDS SECTION 11.1.3.	1. BLOCKING BETWEEN CEILING JOISTS, RAFTERS, OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	ROOF 3-8d COMMON (2½" x 0.131"); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS; or 3-3" x 14 GAGE STAPLES, 7/6" CROWN	EACH END, TOENAIL
FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	 B. WALL FRAMING: TWO STUDS MINIMUM SHALL BE INSTALLED AT THE ENDS OF ALL WALLS, UNLESS NOTED OTHERWISE NOTED. INSTALL SOLID BLOCKING FOR WOOD COLUMN THROUGH FLOOR SPACES TO SUPPORTS BELOW. 	BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS	2-8d COMMON (2½" x 0.131") 2-3" x 0.131" NAILS 2-3" x 14 GAGE STAPLES 2-16d COMMON (3½" x 0.162")	EACH END, TOENAIL END NAIL
. BONDING AGENT SHALL BE "MASTEREMACO ADH 326" BY BASF CORPORATION. OR EQUIVALENT, AND SHALL BE USED WHERE NEW CONCRETE IS PLACED AGAINST HARDENED CONCRETE. PLACE IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, INCLUDING PREPARATION OF EXISTING SURFACES. CONCRETE SHALL BE CONSIDERED HARDENED AFTER 56 DAYS.	ALL STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING BELOW WITH 16d NAILS @ 12" oc STAGGERED OR BOLTED TO CONCRETE WITH ⅔"Ø ANCHOR BOLTS @ 4'-O" oc PER IBC SECTION 2308.6 (EMBED 7"), UNLESS OTHERWISE NOTED. 3" × 3" × 0.229" PLATE WASHERS SHALL BE USED WITH ALL SILL PLATE ANCHOR BOLTS AND	FLAT BLOCKING TO TRUSS AND WEB FILLER	3-3" x 0.131" NAILS 3-3" x 14 GAGE STAPLES 16d COMMON (3½" x 0.162") @ 6" oc 3" x 0.131" NAILS @ 6" oc	FACE NAIL
. NON—SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (6,000 PSI MINIMUM).	INSTALLED PER AF&PA SDPWS-2008 SECTION 4.3.6.4.3. INDIVIDUAL MEMBERS OF BUILT-UP STUD POSTS SHALL BE NAILED TO EACH OTHER WITH 16d @ 12" oc STAGGERED. C. FLOOR AND ROOF FRAMING: INSTALL SOLID BLOCKING AT ALL BEARING POINTS. TOENAIL JOISTS TO SUPPORTS WITH (2)16d NAILS. ATTACH TIMBER JOISTS TO FLUSH HEADERS OR	2. CEILING JOISTS TO TOP PLATE	3" x 14 GAGE STAPLES @ 6" oc 3-8d COMMON (2½" x 0.131"); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS; or	EACH JOIST, TOENAIL
D: . FRAMING LUMBER SHALL BE KILN DRIED OR MC-19, AND GRADED AND MARKED IN CONFORMANCE WITH W.C.L.I.B. STANDARD GRADING RULES FOR WEST COAST LUMBER NO. 17 OR W.W.P.A. WESTERN LUMBER GRADING RULES. FURNISH TO THE FOLLOWING MINIMUM STANDARDS:	BEAMS WITH SIMPSON METAL JOIST HANGERS IN ACCORDANCE WITH NOTES ABOVE. NAIL ALL MULTI-JOIST BEAMS TOGETHER WITH 16d@12"oc STAGGERED. ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH GRAIN PERPENDICULAR TO SUPPORTS AND NAILED AS SHOWN ON THE DRAWINGS. INSTALL APPROVED PANEL EDGE CLIPS CENTERED	3. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITION (NO THRUST) (SEE	$3-3^{\circ}$ x 14 GAGE STAPLES, 7_{6}° CROWN $3-16d$ COMMON ($3\frac{1}{2}^{\circ}$ x 0.162 [°]); or $4-10d$ BOX (3° x 0.128 [°]); or $4-3^{\circ}$ x 0.131 [°] NAILS; or	FACE NAIL
PLATES, LEDGERS & MISC.DOUGLAS FIR NO. 3 OR STUD GRADELIGHT FRAMING:MIN. BASIC DESIGN STRESS, $F_b = 525$ PSI, $E = 1400$ KSIJOISTS, BEAMS & POSTS:DOUGLAS FIR NO. 1MIN. BASIC DESIGN STRESS, $F_b = 1000$ PSI, $E = 1700$ KSI	BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED TONGUE-AND-GROOVE JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF LOOR AND ROOF SHEATHING, TOENAIL BLOCKING TO SUPPORTS WITH 16d@12"oc. IN ACCORDANCE WITH IBC	4. CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT)	$4-3^{\circ} \times 14$ GAGE STAPLES, 7_{6}° CROWN PER TABLE 2308.7.3.1	FACE NAIL
$F_c = 1500$ PSI, $F_t = 1000$ PSI MANUFACTURED LUMBER SHALL BE AS MANUFACTURED BY TRUS JOIST OR APPROVED EQUAL. REQUESTS FOR APPROVAL AS EQUAL WILL REQUIRE SUBMITTAL OF ICC REPORT EQUIVALENT TO ESR-1387 FOR LAMINATED VENNER LUMBER (LVL, LAMINATED STRAND LUMBER (LSL), OR PARALLEL STRAND LUMBER	SECTION 1604.8.3, DECKS SHALL BE POSITIVELY ANCHORED TO THE STRUCTURE BY MEANS OTHER THAN NAILS SUBJECT TO WITHDRAWAL. ANCHOR WITH MINIMUM (1) CS16 STRAP AT EACH END ATTACHED TO DECK JOISTS AND TO A SOLID BLOCKING MEMBER WITHIN THE BUILDING.	5. COLLAR TIE TO RAFTER	3-10d COMMON (3" x 0.148"); or 4-10d BOX (3" x 0.128"); or 4-3" x 0.131" NAILS; or 4-3" x 14 GAGE STAPLES, 7/6" CROWN	FACE NAIL
(PSL). THE MINIMUM ALLOWABLE DESIGN VALUES ARE AS FOLLOWS: $LVL - F_b = 2,600$ $F_v = 290$ PSI $E = 2,000,000$ PSI $LSL - F_b = 1,900$ $F_v = 150$ PSI $E = 1,300,000$ PSI . ENGINEERED WOOD I-JOISTS SHALL BE FURNISHED AND INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ALL NECESSARY BRIDGING, BLOCKING, BLOCKING PANELS, STIFFENERS, ETC., SHALL BE DETAILED AND FURNISHED BY THE MANUFACTURER. PERMANENT AND TEMPORARY	POST-INSTALLED ANCHORS AND EPOXY ADHESIVE 29. EPOXY-GROUTED RODS OR REBAR TO CONCRETE SPECIFIED ON THE DRAWINGS SHALL BE ONE OF THE FOLLOWING INSTALLED IN STRICT ACCORDANCE WITH THE ICC-ES REPORTS INDICATED AND MANUFACTURER'S INSTRUCTIONS INCLUDING MINIMUM EMBED REQUIREMENTS: "SET-XP" AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. (ICC-ES NO. 2508); OR "HIT-HY 200" AS	6. RAFTER OR ROOF TRUSS TO TOP PLATE (SEE 2308.7.5, TABLE 2308.7.5)	3-10d COMMON (3" x 0.148"); or 3-16d BOX ($3\frac{1}{2}$ " x 0.135"); or 4-10d BOX (3" x 0.128"); or 4-3" x 0.131" NAILS; or 4-3" x 14 GAGE STAPLES, $\frac{7}{16}$ " CROWN	TOENAIL
BRIDGING SHALL BE INSTALLED IN CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS. ALL JOIST HANGERS AND OTHER HARDWARE SHALL BE COMPATIBLE IN SIZE WITH ENGINEERED WOOD I-JOISTS PROVIDED. DESIGN SHOWN ON THE DRAWINGS IS BASED ON RESIDENTIAL JOISTS MANUFACTURED BY WEYERHAUSER IN ACCORDANCE WITH ICC-ES REPORT NO. ESR-1153. ALTERNATE ENGINEERED WOOD I-JOISTS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD	MANUFACTURED BY HILTI, INC. (ICC-ES NO. 3187), "SAFE-SET" INSTALLATION WITH HOLLOW CARBIDE DRILL BIT IS PERMITTED; OR "PURE110+" AS MANUFACTURED BY DEWALT/POWERS (ICC-ES NO. 3298). SUBSTITUTES PROPOSED BY CONTRACTOR SHALL BE SUBMITTED FOR REVIEW WITH ICC-ES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. IN ADDITION, SUBSTITUTIONS SHALL MEET ICC-ES ACCEPTANCE CRITERIA AC308. SPECIAL INSPECTION OF EPOXY-GROUTED ANCHOR INSTALLATION	7. ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTER TO 2" RIDGE BEAM	2–16d COMMON (3½" x 0.162"); or 3–10d BOX (3" x 0.128"); or 3–3" x 0.131 NAILS; or 3–3" x 14 GAGE STAPES, 7/6" CROWN	END NAIL
. GLUED LAMINATED MEMBERS SHALL BE FABRICATED IN CONFORMANCE WITH ASTM AND A.I.T.C. STANDARDS IN ACCORDANCE WITH IBC SECTION 2303.1.3. EACH MEMBER SHALL BEAR AN A.I.T.C. IDENTIFICATION MARK AND SHALL BE ACCOMPANIED BY AN A.I.T.C. CERTIFICATE OF CONFORMANCE. HORIZONTAL MEMBERS AND INCLINED MEMBERS OF LESS THAN 1:1 SLOPE SHALL HAVE A RADIUSED CAMBER OF 3,500 FT. UNLESS OTHERWISE NOTED. SIMPLE SPAN BEAMS DOUGLAS FIR COMBINATION 24F-VR	IS REQUIRED. EPOXY GROUTED RODS OR REBAR SHALL NOT BE USED AS SUBSTITUTES FOR CAST-IN-PLACE ANCHOR BOLTS OR REINFORCING STEEL UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER. NOTIFY ENGINEER IF ANCHOR LOCATIONS CONFLICT WITH REINFORCING STEEL – DO NOT CUT REINFORCING OR REDUCE EMBEDMENT DEPTHS WITHOUT PRIOR APPROVAL. INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT SUSTAINED TENSION LOADS SHALL BE PERFORMED BY CERTIFIED PERSONNEL IN CONFORMANCE TO ACI 318–14 SECTION 17.8.2.2. HOLES SHALL BE HAMMER DRILLED AND DRY.		3–10d COMMON (3½" x 0.148"); or 3–16d BOX (3½" x 0.135"); or 4–10d BOX (3" x 0.128"); or 4–3" x 0.131 NAILS; or 4–3" x 14 GAGE STAPES, 7/16" CROWN WALL	TOENAIL
$F_{\rm b}$ = 2400 PSI; $F_{\rm v}$ = 265 PSI; E = 1,800,000 PSI GLUED LAMINATED MEMBERS EXPOSED TO WEATHER OR MOISTURE SHALL BE TREATED WITH A NON-CORROSIVE, APPROVED PRESERVATIVE.	30. EXPANSION ANCHORS SHALL BE ONE OF THE APPROVED PRODUCTS BELOW: – KWIK BOLT TZ ANCHORS AS MANUFACTURED BY HILTI, INC. AND INSTALLED IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. 1917, OR	8. STUD TO STUD (NOT AT SHEARWALL CHORDS)	16d COMMON (3½" x 0.162")"	24" oc FACE NAIL
PREFABRICATED CONNECTOR PLATE WOOD TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH ANSI/TPI I-2007 AND IBC SECTION 2303.4 FOR THE SPANS AND CONDITIONS SHOWN ON THE DRAWINGS.	 STRONG-BOLT 2 AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. AND INSTALLED IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. 3037 AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. 		$3^{"}$ x 0.131" NAILS; or 3–3" x 14 GAGE STAPLES, 7_{16} " CROWN	
DESIGN LOADS SHALL BE AS FOLLOWS:TOP CHORD LIVE LOAD25 PSF, SNOWBOTTOM CHORD LIVE LOAD0 PSFTOP CHORD DEAD LOAD17.5 PSFBOTTOM CHORD DEAD LOAD2.5 PSFWIND UPLIFT (TOP CHORD)SEE NOTE #2 COMPONENTS & CLADDING ROOF LOADS		9. STUD TO STUD AND ABUTTING STUDS AT INTERSECTION WALL CORNERS	16d COMMON (3½" x 0.162")"; or 16d BOX (3½" x 0.135")"; or 3" x 0.131" NAILS; or 3-3" x 14 GAGE STAPLES, 7 ₆ " CROWN	16" oc FACE NAIL12" oc FACE NAIL12" oc FACE NAIL
THE TRUSS MANUFACTURER SHALL COORDINATE LOCATIONS AND SUPPORT CONFIGURATIONS OF PLUMBING, MECHANICAL UNITS, DUCTS, AND/OR OTHER MISCELLANEOUS ITEMS WITH THE CONTRACTOR PRIOR TO TRUSS FABRICATION. THE TRUSS MANUFACTURER SHALL DESIGN TRUSSES TO SUPPORT ALL LOADS ASSOCIATED WITH SUCH ITEMS. THE TRUSS SHOP DRAWINGS SHALL INCLUDE ALL DESIGN LOADS		10. BUILT-UP HEADER (2" TO 2" HDR.)	16d COMMON (3½" x 0.162")"; or 16d BOX (3½" x 0.135")	16" oc EA. EDGE, FACE NAIL 12" oc EA. EDGE, FACE NAIL
AND APPROVED HANGER CONNECTION DETAILS TO TRUSS CHORDS FOR SUPPORT OF HUNG MECHANICAL SYSTEM COMPONENTS AS APPLICABLE.		11. CONTINUOUS HEADER TO STUD	4-8d COMMON (2½" x 0.131"); or 4-10d BOX (3" x 0.128")	TOENAIL
WOOD TRUSSES SHALL UTILIZE APPROVED CONNECTOR PLATES (GANGNAIL OR EQUAL). SHOP DRAWINGS AND CALCULATIONS SHALL BE PROVIDED AS A DEFERRED SUBMITTAL TO THE CONTRACTOR AND STRUCTURAL ENGINEER OF RECORD PER GENERAL STRUCTURAL NOTE 13. SHOP DRAWINGS SHALL INDICATE SHAPES, BEARING POINTS, INTERSECTIONS, HIPS, VALLEYS, ETC. EXACT COMPOSITION OF SPECIAL HIP, VALLEY, AND INTERSECTION AREAS (USE OF GIRDER TRUSSES, JACK TRUSSES, STEP-DOWN TRUSSES, ETC.) SHALL BE DETERMINED BY THE MANUFACTURER UNLESS OTHERWISE NOTED ON THE		12. TOP PLATE TO TOP PLATE	16d COMMON (3½" x 0.162"); or 10d BOX (3" x 0.128"); or 3" x 0.131" NAILS; or 3" x 14 GAGE STAPLES, 7/6" CROWN	16" oc FACE NAIL 12" oc FACE NAIL
DRAWINGS. THE TRUSS MANUFACTURER SHALL PROVIDE ALL TRUSS—TO—TRUSS BEAM/JOIST CONNECTION DETAILS AND REQUIRED CONNECTION MATERIALS. THE TRUSS MANUFACTURER SHALL DESIGN AND PROVIDE DETAILS FOR ALL TEMPORARY AND PERMANENT TRUSS BRACING AND BRIDGING.		13. TOP PLATE TO TOP PLATE, AT END JOINTS	8–16d COMMON (3½" x 0.162"); or 12–10d BOX (3" x 0.128"); or 12–3" x 0.131" NAILS; or 12–3" x 14 GAGE STAPLES, 7⁄16" CROWN	EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP SPLICE LENGTH EA. SIDE OF END JOINT
STRAND BOARD (OSB) IN CONFORMANCE WITH IBC SECTION 2303.1.5. SHEATHING SHALL BE MANUFACTURED UNDER THE PROVISIONS OF VOLUNTARY PRODUCT STANDARDS DOC PS 1–09, PS 2–10, OR APA PRP–108 PERFORMANCE STANDARDS AND POLICIES FOR STRUCTURAL USE PANELS. SEE DRAWINGS FOR THICKNESS, SPAN RATING, AND NAILING REQUIREMENTS.	IBC TABLE 1705.3 REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION	14. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST, OR BLOCKING NOT AT SHEARWALL	16d COMMON (3½" x 0.162")"; or 16d BOX (3½" x 0.135")"; or 3" x 0.131" NAILS; or 3" x 14 GAGE STAPLES, 7/6" CROWN	16" oc FACE NAIL 12" oc FACE NAIL
AT NON-SHEAR WALL EXTERIOR WALLS, UNLESS OTHERWISE NOTED, WALL SHEATHING SHALL BE ½" (NOMINAL) WITH SPAN RATING OF ² %; WITH 8d @ 6" oc PANEL NAILING (APPLIES TO ALL SHEATHING PANEL EDGES); AND 8d @ 12" oc TO INTERMEDIATE FRAMING.	REQUIRED? VERIFICATION & INSPECTION CONTINUOUS PERIODIC REF STD. IBC REF. N* 1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS AND VERIFY PLACEMENT. X ACI 318 CH. 20, 25.2, 25.3, 26.5.1-26.5.3 1908.4 2. REINFORCING BAR WELDING: A. VERIFY WELDABULITY OF REINFORCING BARS X X X	15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST, OR BLOCKING AT SHEARWALL	2-16d COMMON ($3\frac{1}{2}$ " x 0.162"); or 3-16d BOX ($3\frac{1}{2}$ " x 0.135"); or 4-3" x 0.131" NAILS; or 4-3" x 14 GAGE STAPLES, $\frac{7}{16}$ " CROWN	16" oc FACE NAIL
GROUND AND CONTINUOUSLY PROTECTED FROM MOISTURE (INTERIOR LOCATIONS) SHALL BE PRESSURE-TREATED WITH DOT SODIUM BORATE (SBX) WITHOUT NaSIO ₂ . AT LOCATIONS PERMANENTLY EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, WOOD MEMBERS SHALL BE PRESSURE-TREATED WITH ALKALINE COPPER QUAT (ACQ-C FOR DOUGLAS-FIR) PRESERVATIVE UNLESS OTHERWISE NOTED. AMMONIACAL COPPER ZINC ARSENATE (ACZA) PRESERVATIVE OR OTHER PRESERVATIVES WITH AMMONIA CARRIERS, SHALL NOT BE USED.	N OTHER THAN ASTM A 706. B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND C. INSPECT ALL OTHER WELDS X AWSD1.4 ACI 318 26.5.4 YES 3. INSPECT ANCHORS CAST IN CONCRETE. X ACI 318: 17.8.2	16. STUD TO TOP OR BOTTOM PLATE	4-8d COMMON ($2\frac{1}{2}$ " x 0.131"); or 4-10d BOX (3" x 0.128"); or 4-3" x 0.131" NAILS; or 4-3" x 14 GAGE STAPLES, $\frac{7}{16}$ " CROWN	TOENAIL
GLUED LAMINATED MEMBERS EXPOSED TO WEATHER OR MOISTURE SHALL BE TREATED WITH A NON-CORROSIVE, APPROVED PRESERVATIVE. SEE NOTE #27 FOR MATERIAL REQUIREMENTS OF CONNECTORS AND FASTENERS IN CONTACT WITH PRESSURE-TREATED MEMBERS.	YES 4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. x x x YES A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A x x x		2–16d COMMON $(3\frac{1}{2}$ " x 0.162"); or 3–10d BOX $(3$ " x 0.128"); or 3–3" x 0.131" NAILS; or 3–3" x 14 GAGE STAPLES, $\frac{7}{16}$ " CROWN	END NAIL
TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED N THEIR WOOD CONSTRUCTION CONNECTORS CATALOG NO. C-C-2017-18. INSTALL NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, CENTER STRAP ON JOINT AND INSTALL NUMBER AND SIZE OF FASTENERS AS	N* 5. VERIFY USE OF REQUIRED DESIGN MIX. X ACI 318: CH. 19, 26.4.4 1904.1, 1904.2, 1908.3 6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM ASTM C 172 ASTM C 31 1008.10	17. TOP OR BOTTOM PLATE TO STUD	2–16d COMMON (3½" x 0.162"); or 3–10d BOX (3" x 0.128"); or 3–3" x 0.131" NAILS; or 3–3" x 14 GAGE STAPLES, ¾6" CROWN	END NAIL
SPECIFIED BY MANUFACTURER, WITH EQUAL NUMBER AND SIZE OF FASTENERS IN EACH MEMBER. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. INSTALL WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. ALL SHIMS SHALL BE SEASONED AND DRIED AND THE SAME GRADE (MINIMUM) AS MEMBERS CONNECTED.	AND AIR CONTENT TESTS, AND DETERMINE THE ACI 318: 26.4.5, 26.12 TEMPERATURE OF THE CONCRETE. 26.12 N* 7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES. N* 8. VERIFY MAINTENANCE OF SPECIFIED CURING	18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2–16d COMMON (3½" x 0.162"); or 3–10d BOX (3" x 0.128"); or 3–3" x 0.131" NAILS; or 3–3" x 14 GAGE STAPLES, ⅔6" CROWN	FACE NAIL
ALL TIMBER CONNECTORS IN CONTACT WITH PRESSURE-TREATED WOOD THAT USED PRESERVATIVE CHEMICALS OTHER THAN DOT SODIUM BORATE (SBX) WITHOUT $N_{0}SIO_{2}$ SHALL BE MANUFACTURED FROM Z_{MAX} STEEL BY SIMPSON (G185 STEEL PER ASTM A653), OR TYPE 304 OR 316 STAINLESS STEEL. ALTERNATIVELY, CONNECTORS CAN BE POST HOT DIP GALVANIZED PER ASTM A123 OR MECHANICALLY GALVANIZED PER ASTM B695, CLASS 55 OR GREATER. STAINLESS STEEL FASTENERS SHALL BE USED WITH STAINLESS STEEL CONNECTORS. AND HOT DIP GALVANIZED FASTENERS PER ASTM A153 SHALL BE	N 9. INSPECT PRESTRESSED CONCRETE FOR: A. APPLICATION OF PRESTRESSING FORCES; AND B. GROUTING OF BONDED PRESTRESSING TENDONS X X ACI 318: 26.9.2.1 ACI 218: 26.9.2.3 N 10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS. X ACI 318: CH. 26.8	19. 1" BRACE TO EACH STUD AND PLATE	2-8d COMMON (2½" x 0.131"); or 2-10d BOX (3" x 0.128"); or 2-3" x 0.131" NAILS; or 2-3" x 14 GAGE STAPLES, ¾6" CROWN	FACE NAIL
USED WITH GALVANIZED CONNECTORS.	11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS. X ACI 318: 26.10.2 12. INSPECT FORMWORK FOR SHARE LOCATION AND X ACI 318: 26.10.2	20. 1" x 6" SHEATHING TO EACH BEARING	2-8d COMMON (2½" x 0.131"); or 2-10d BOX (3" x 0.128"); or	FACE NAIL
	N* 12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. X ACI318: 26.10.1(b) * EXCEPTIONS 2 PER IBC SECTION 1705.3 APPLIES TO CONCRETE WORK ON THIS PROJECT. * Section 1705.3 APPLIES TO CONCRETE WORK ON THIS PROJECT.	21. 1" x 8" AND WIDER SHEATHING TO EACH BEARING	3-8d COMMON (2½" x 0.131"); or 3-10d BOX (3" x 0.128"); or	FACE NAIL
				· J

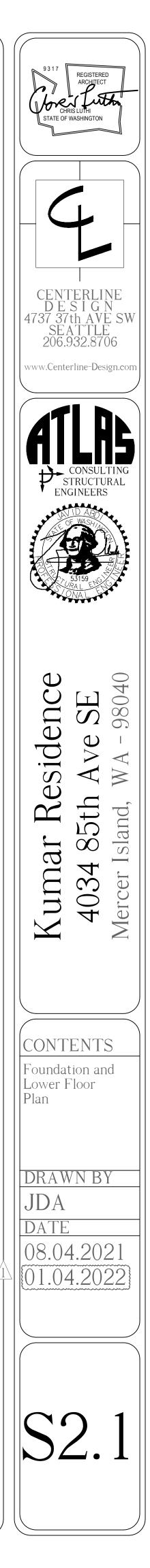
Minimum Connectors and Fasteners for Wood Members per IBC 2015

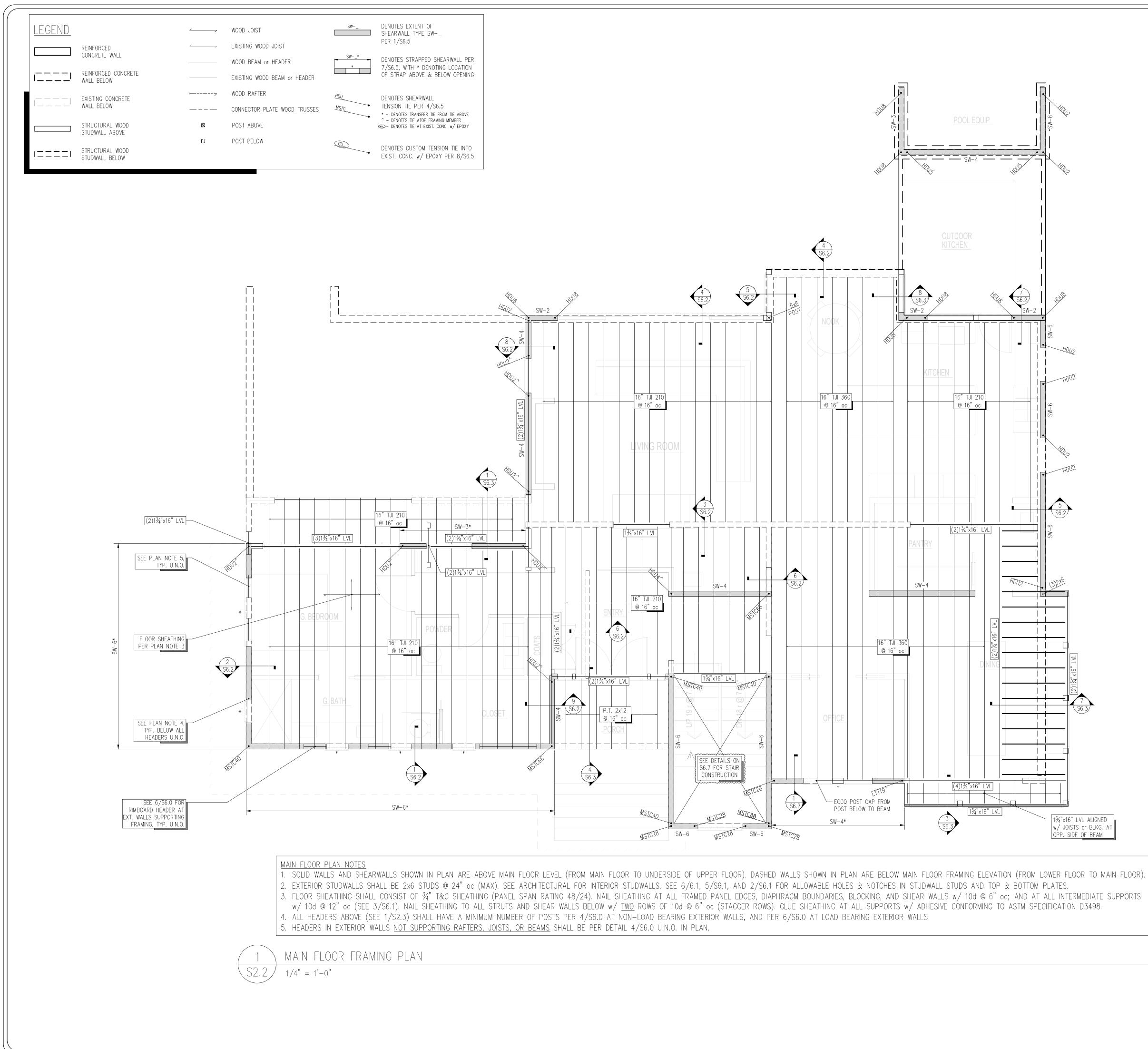
ING & LOCATION		DESCRIPTION OF BLDG. ELEMENT	NUMBER AND TYPE OF FASTENERS	SPACING & LOCATION
CH END, NAIL	22.	JOIST TO SILL, TOP PLATE, OR GIRDER	FLOOR 3-8d COMMON (2½" x 0.131"); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS; or 3-3" x 14 GAGE STAPLES, 7 ₁₆ " CROWN	TOENAIL
H END, NAIL	23.	RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL, OR OTHER FRAMING BELOW	8d COMMON (2½" x 0.131"); or 10d BOX (3" x 0.128"); or 3" x .131" NAILS; r 3" x 14 GAGE STAPLES, 7/6" CROWN	6" o.c., TOENAIL
E NAIL	24.	1" x 6" SUBFLOOR OR LESS TO EACH JOIST	2-8d COMMON (2½" x 0.131"); or 2-10d BOX (3" x 0.128")	FACE NAIL
	25.	2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3½" x 0.162")	FACE NAIL
CH JOIST, NAIL	26.	2" PLANKS (PLANK & BEAM – FLOOR & ROOF)	2-16d COMMON (3½" x 0.162")"	EA. BEARING, FACE NAIL
ë nail	27.	BUILT-UP GIRDERS AND BEAMS, 2"LUMBER LAYERS	20d COMMON (4" x 0.192")	32" o.c., FACE NAIL TOP & BO ⁻ STAGGERED ON OPPOSITE SIDES
e nail			10d BOX (3" x 0.128"); or 3" x 0.131" NAILS; or 3" x 14 GAGE STAPLES, 7 ₁₆ " CROWN	24" o.c., FACE NAIL AT TOP & BOT. STAGGERED ON OPP. SIDES
E NAIL			AND: 2-20d COMMON (4" x 0.192"); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS; or 3-3" x 14 GAGE STAPLES, $\frac{7}{16}$ " CROWN	ENDS AND AT EACH SPLICE, FACE NAIL
NAIL	28.	LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	$3-16d \text{ COMMON} (3\frac{1}{2}^{"} \times 0.162");$ or $4-10d \text{ BOX} (3" \times 0.128");$ or $4-3" \times 0.131" \text{ NAILS};$ or $4-3" \times 14 \text{ GAGE STAPLES}, 7\frac{1}{16}" \text{ CROWN}$	EACH JOIST OR RAFTER, FACE NAIL
NAIL	29.	JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON (3½" x 0.162"); or 4-10d BOX (3" x 0.128"); or 4-3" x 0.131" NAILS; or 4-3" x 14 GAGE STAPLES, 7 ₁₆ " CROWN	END NAIL
NAIL	30.	BRIDGING OR BLOCKING TO JOIST, RAFTER, OR TRUSS	2-8d COMMON (2½" x 0.131"); or 2-10d BOX (3" x 0.128"); or 2-3" x 0.131" NAILS; or 2-3" x 14 GAGE STAPLES, ½6" CROWN	EACH END, TOENAIL

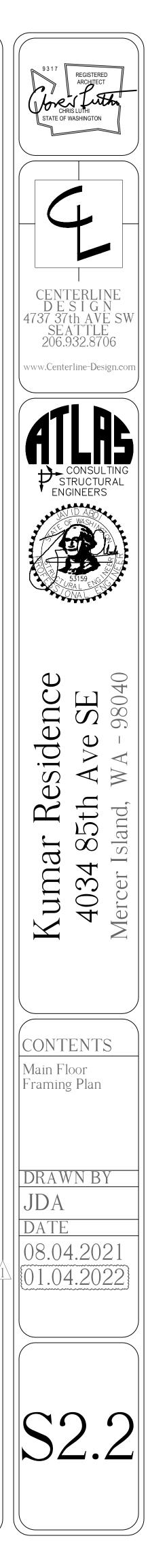
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CONSULTING STRUCTURAL ENGINEERS
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CONTENTS General Structural Notes
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S1.1



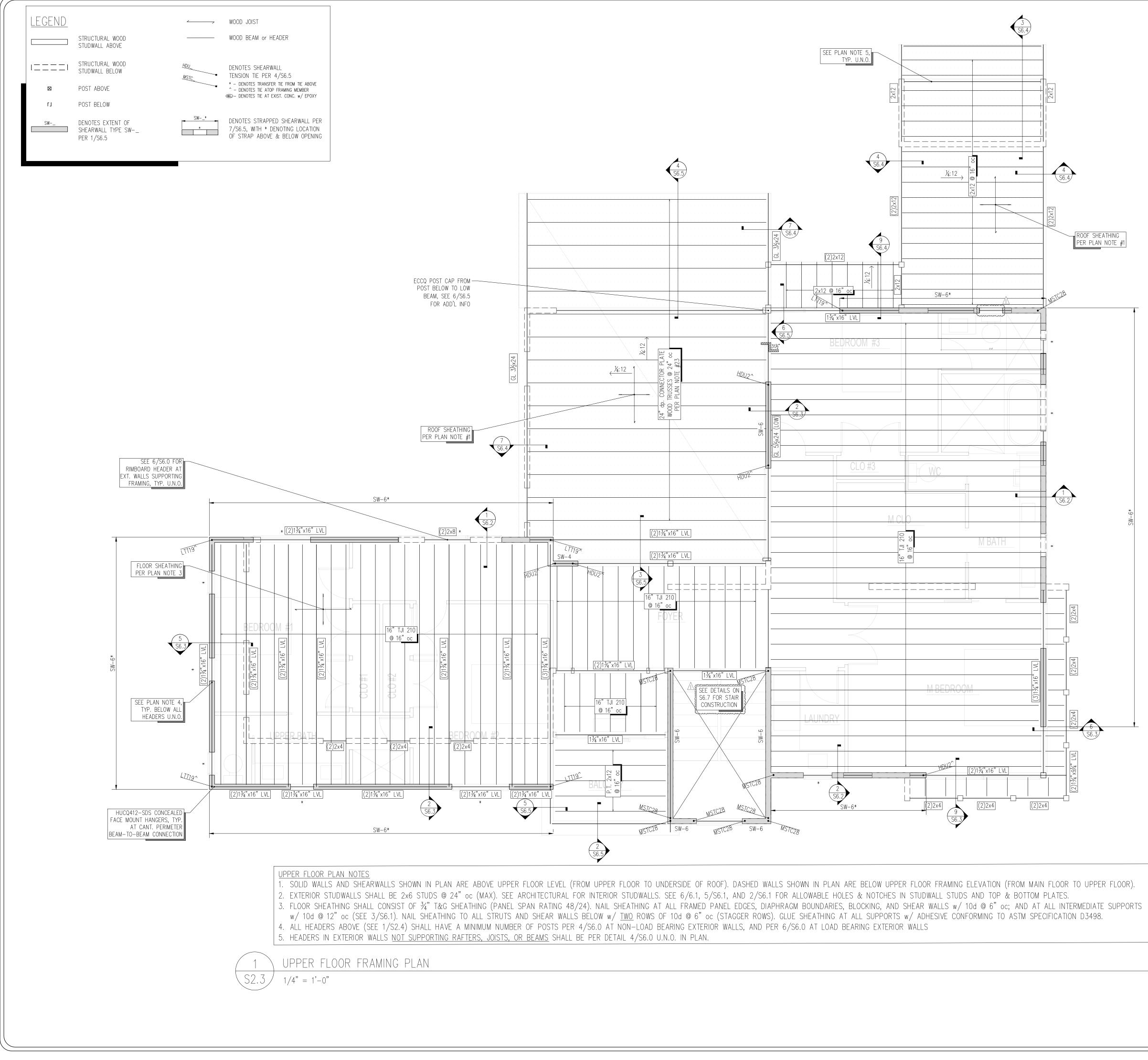
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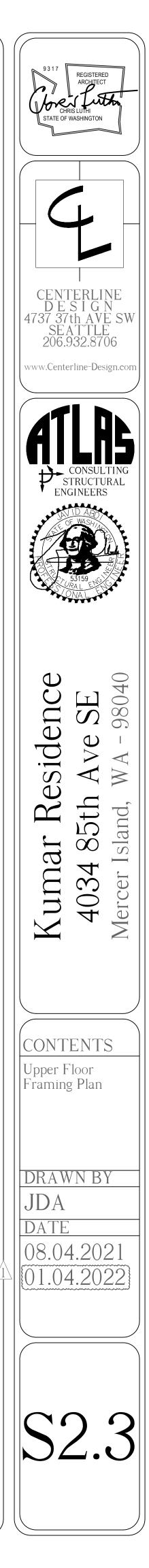














<u>LEGEND</u>

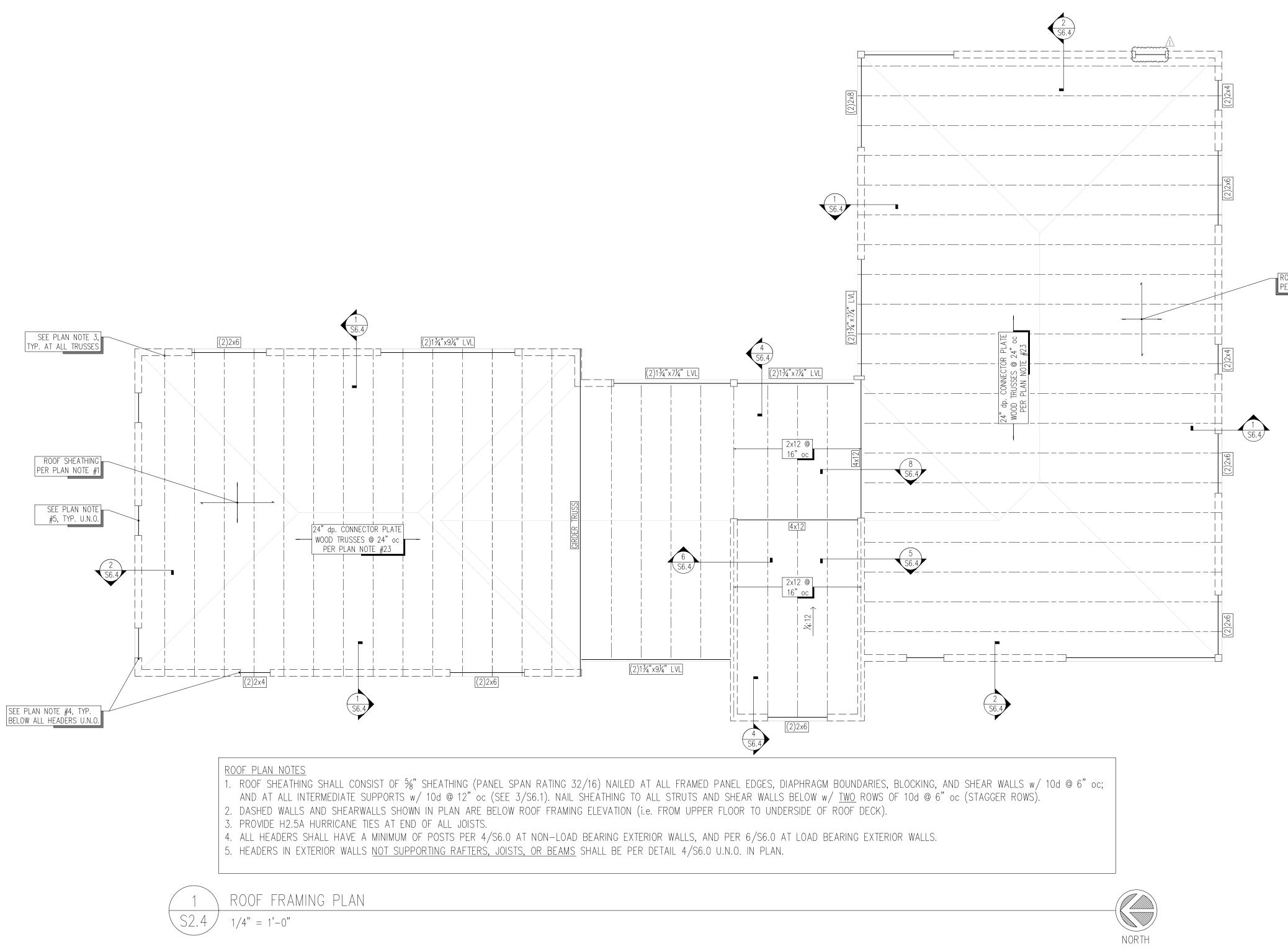
 I = = = 1
 STRUCTURAL WOOD STUDWALL BELOW

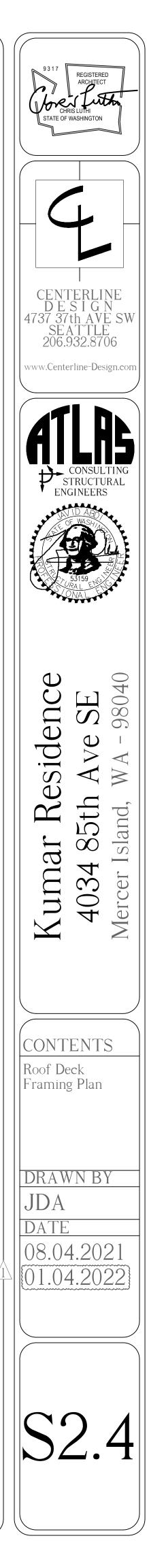
∠ ____ WOOD JOIST

------ WOOD BEAM or HEADER

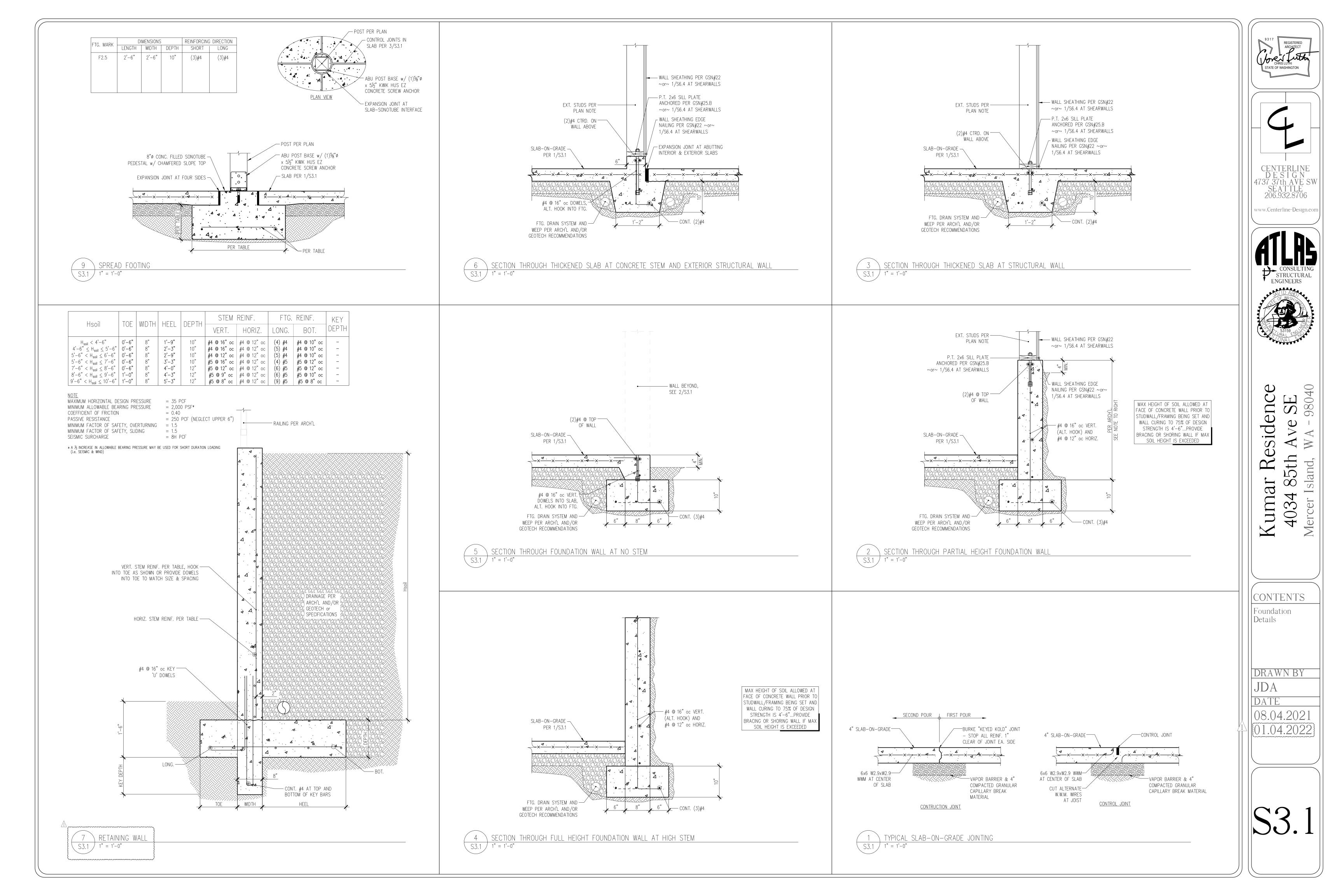
---- CONNECTOR PLATE WOOD TRUSSES

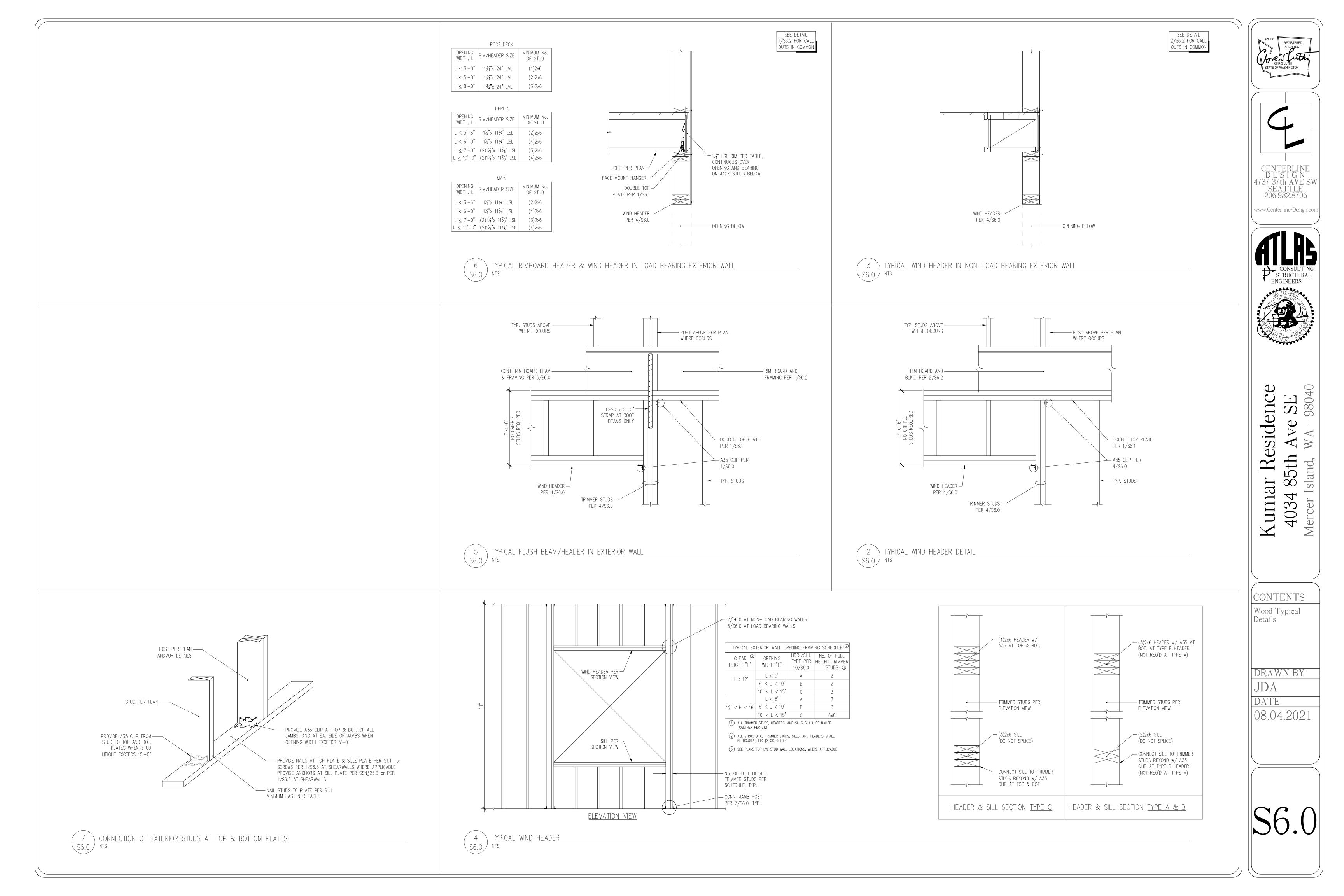
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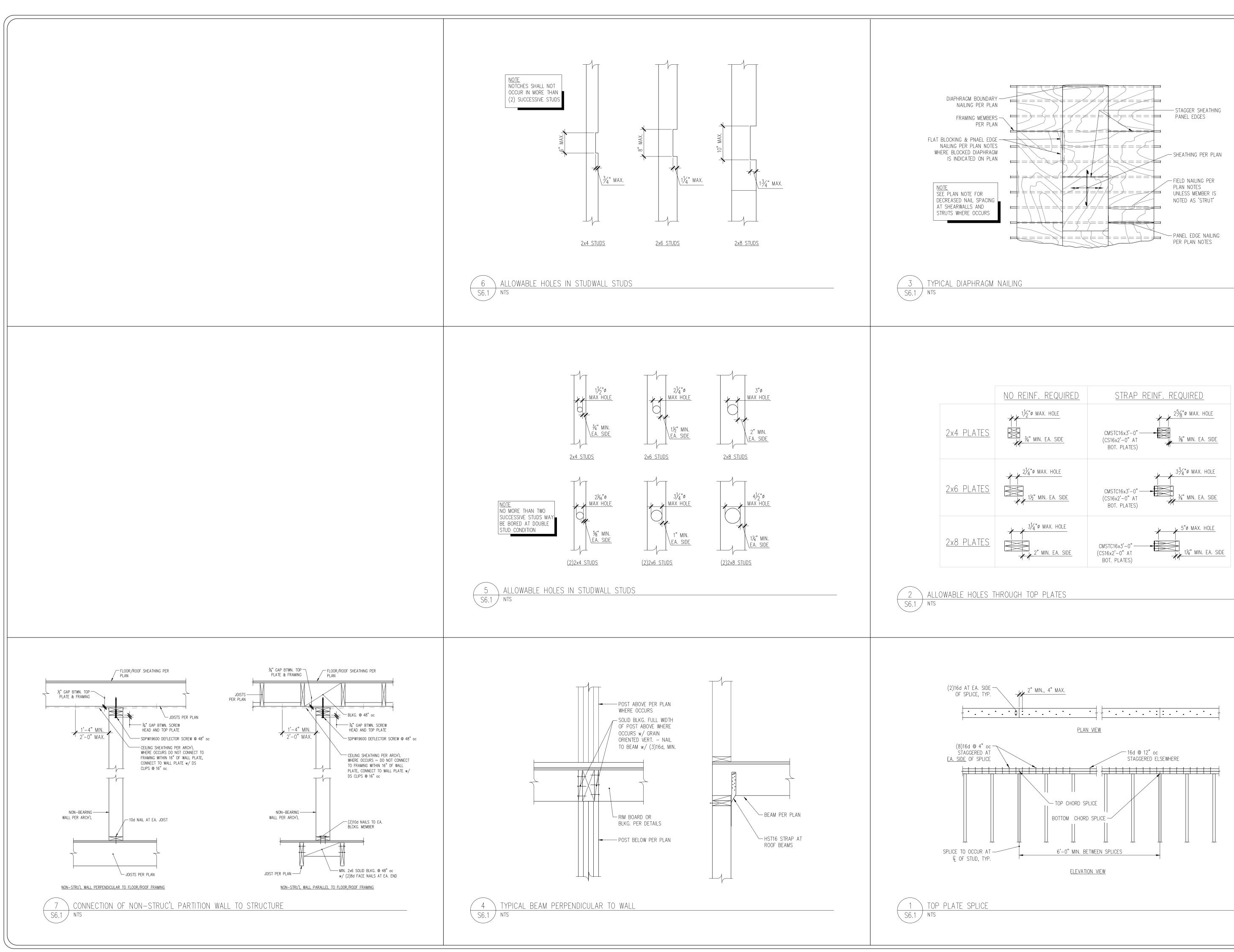




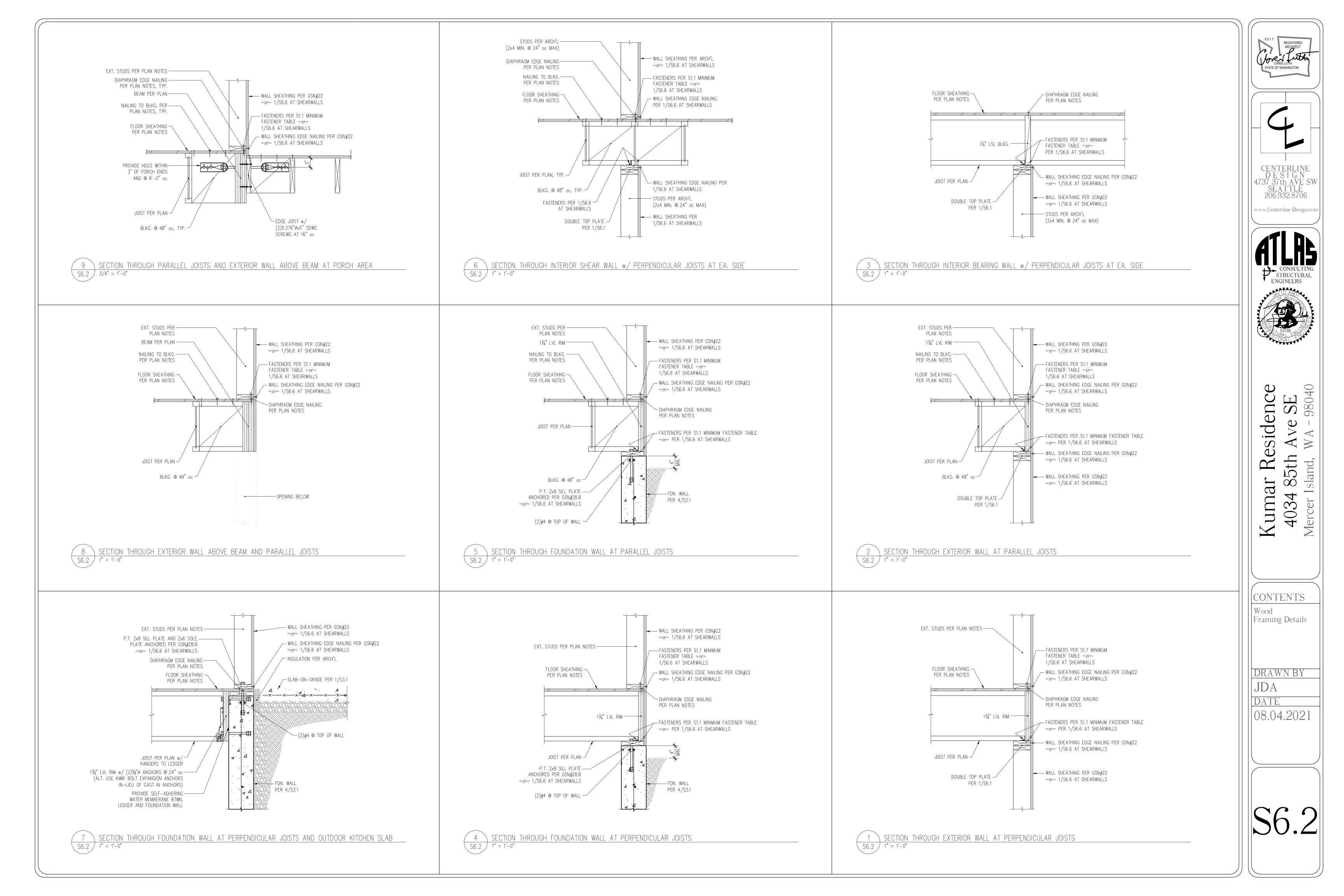
ROOF SHEATHING PER PLAN NOTE #1

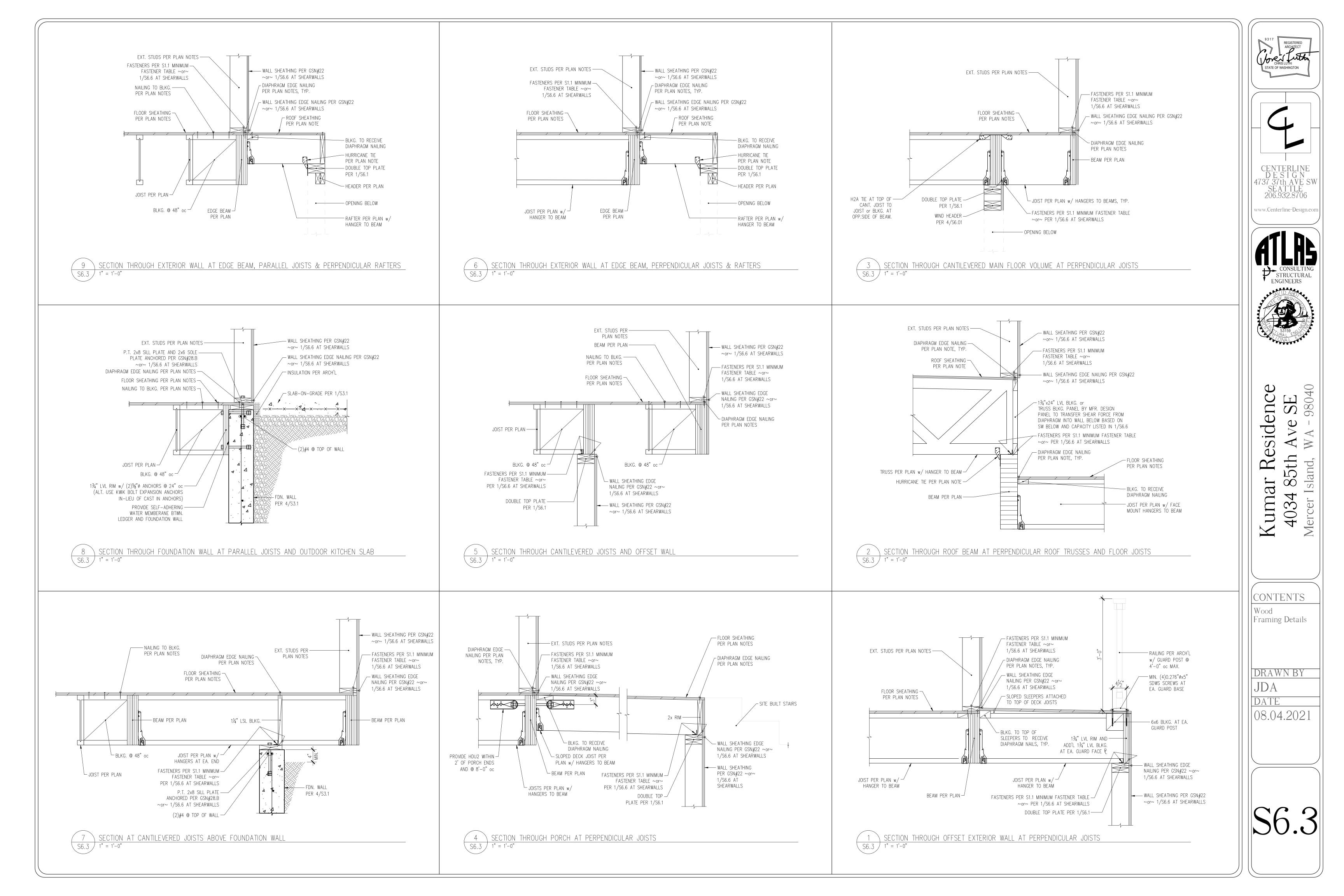


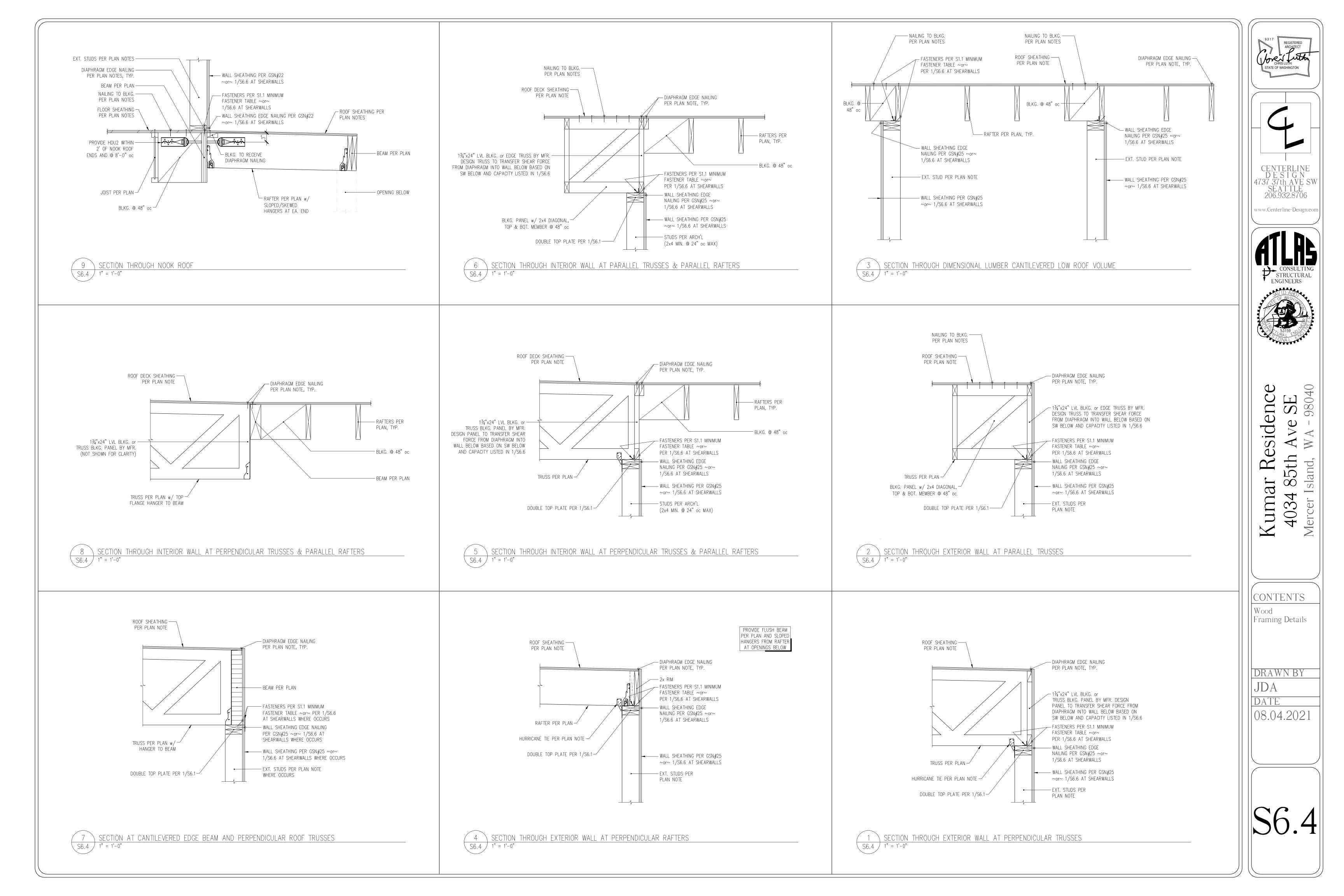


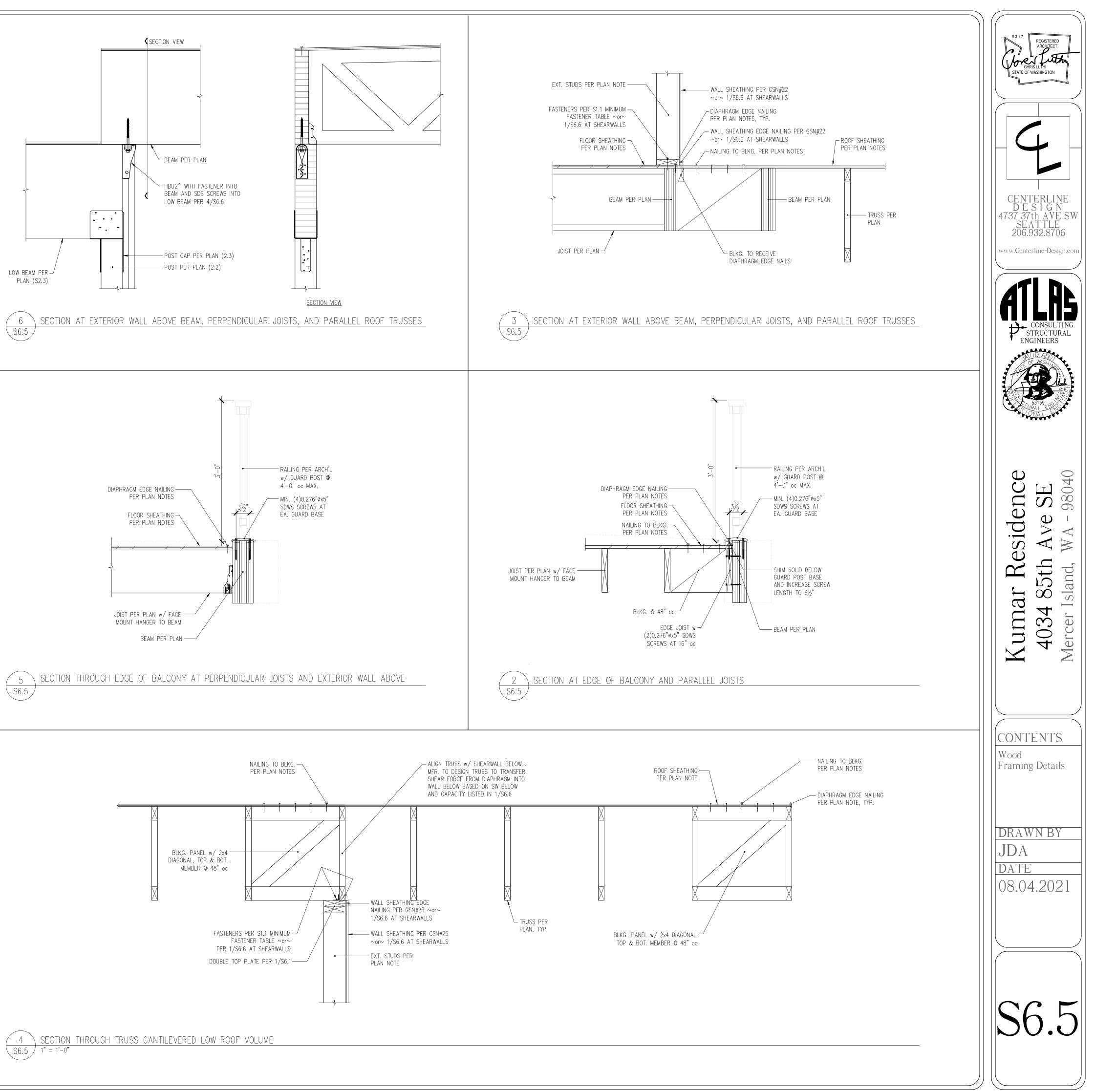


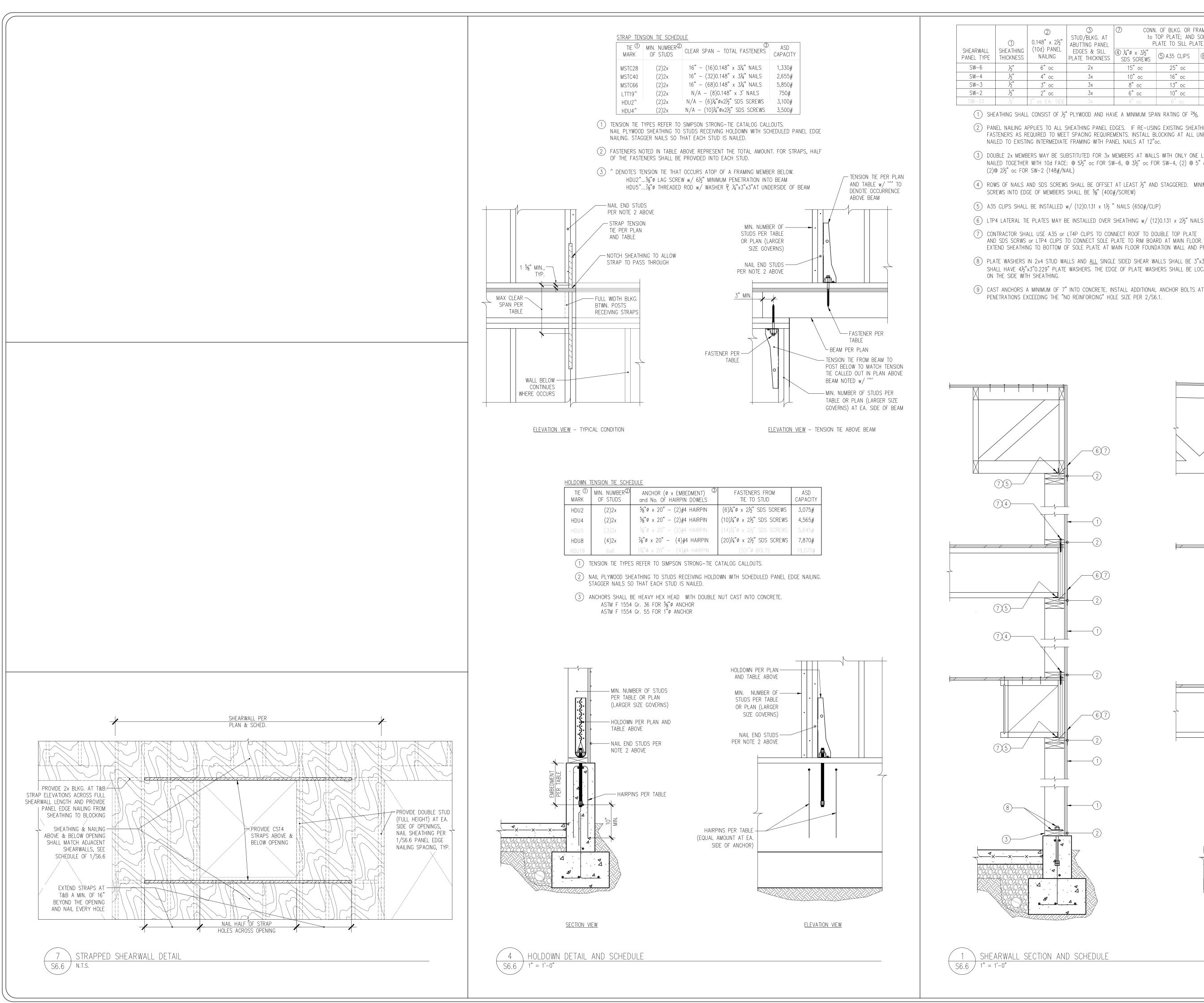
REGISTERE STATE OF WASHINGTON CENTERLINE DESIGN 4737 37th AVE SW SEATTLE 206.932.8706 www.Centerline-Design.com CONSULTING STRUCTURAL ENGINEERS NONAL. 98040 Residence SE A -A 5th sland, Kumar Ň Ţ 4034 Mercer CONTENTS Wood Typical Details DRAWN BY JDA DATE 08.04.2021 S6











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② .148" x 2½"	③ STUD/BLKG. AT ABUTTING PANEL	CONN. OF BLKG. OR FRAMING to TOP PLATE; AND SOLE PLATE TO SILL PLATE			89 ANCHOR BOLTS TO		ASD CAPACITY,
10d) PANEL NAILING	EDGES & SILL PLATE THICKNESS	④ ¼"ø x 3½" SDS SCREWS	⑤ A35 CLIPS	6 LTP4 PLATES	COI %"ø	NC. 3⁄4"ø	PLF
6"ос	2x	15"oc	25" oc	24" oc	48"oc	48"oc	310
4" ос	Зx	10" oc	16" oc	16" oc	38"oc	48"oc	460
3" ос	Зx	8" oc	13" oc	12" oc	29"oc	40" oc	600
2" ос	Зx	6"ос	10" oc	9"ос	23"ос	31" oc	770
oc EA. SIDE	3x	4" oc	6" ос	6" ос	14" oc	20" oc	1200

(1) SHEATHING SHALL CONSIST OF $\frac{1}{2}$ " PLYWOOD AND HAVE A MINIMUM SPAN RATING OF $\frac{24}{3}$.

2 PANEL NAILING APPLIES TO ALL SHEATHING PANEL EDGES. IF RE-USING EXISTING SHEATHING PER NOTE 1 ABOVE, PROVIDE ADDITIONAL FASTENERS AS REQUIRED TO MEET SPACING REQUIREMENTS. INSTALL BLOCKING AT ALL UNFRAMED PANEL EDGES. ENSURE SHEATHING IS NAILED TO EXISTING INTERMEDIATE FRAMING WITH PANEL NAILS AT 12" oc.

(3) DOUBLE 2x MEMBERS MAY BE SUBSTITUTED FOR 3x MEMBERS AT WALLS WITH ONLY ONE LAYER OF SHEATHING. 2x MEMBERS SHALL BE NAILED TOGETHER WITH 10d FACE: @ 5½" oc FOR SW-6, @ 3½" oc FOR SW-4, (2) @ 5" oc FOR SW-3, (2)@ 4" oc FOR SW-2, AND

(4) ROWS OF NAILS AND SDS SCREWS SHALL BE OFFSET AT LEAST $\frac{1}{2}$ " AND STAGGERED. MINIMUM EDGE DISTANCE FOR NAILS AND SDS

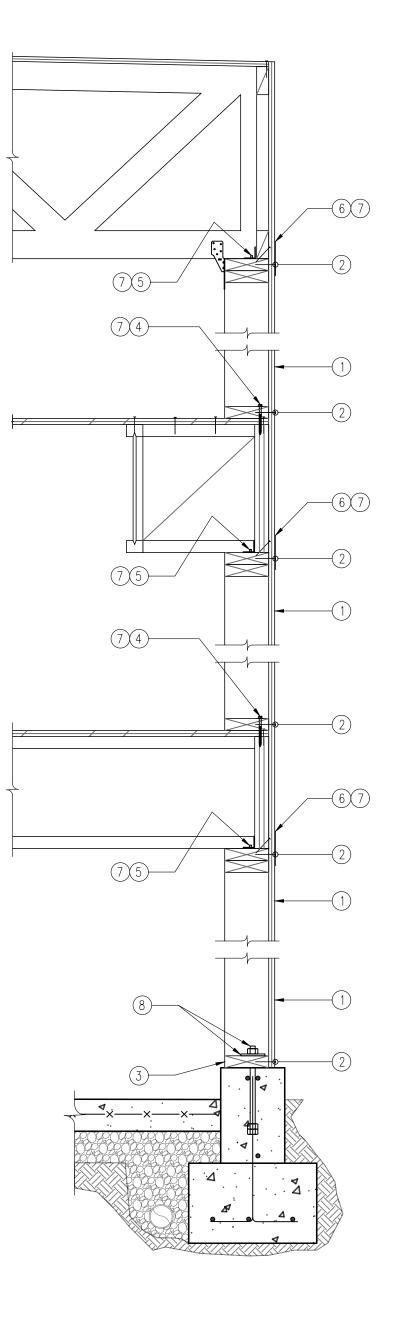
(6) LTP4 LATERAL TIE PLATES MAY BE INSTALLED OVER SHEATHING w/ (12)0.131 x 2½" NAILS (625#/CLIP)

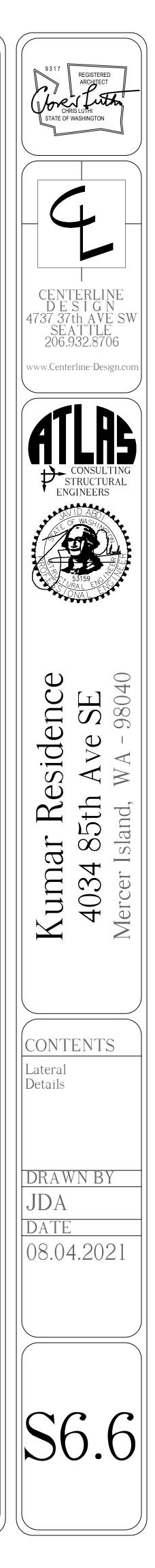
(7) CONTRACTOR SHALL USE A35 or LT4P CLIPS TO CONNECT ROOF TO DOUBLE TOP PLATE

EXTEND SHEATHING TO BOTTOM OF SOLE PLATE AT MAIN FLOOR FOUNDATION WALL AND PROVIDE EDGE FASTENING AS NOTED IN TABLE. (8) PLATE WASHERS IN 2x4 STUD WALLS AND <u>ALL</u> SINGLE SIDED SHEAR WALLS SHALL BE 3"x3"x0.229". DOUBLE SIDED 2x6 SHEAR WALLS

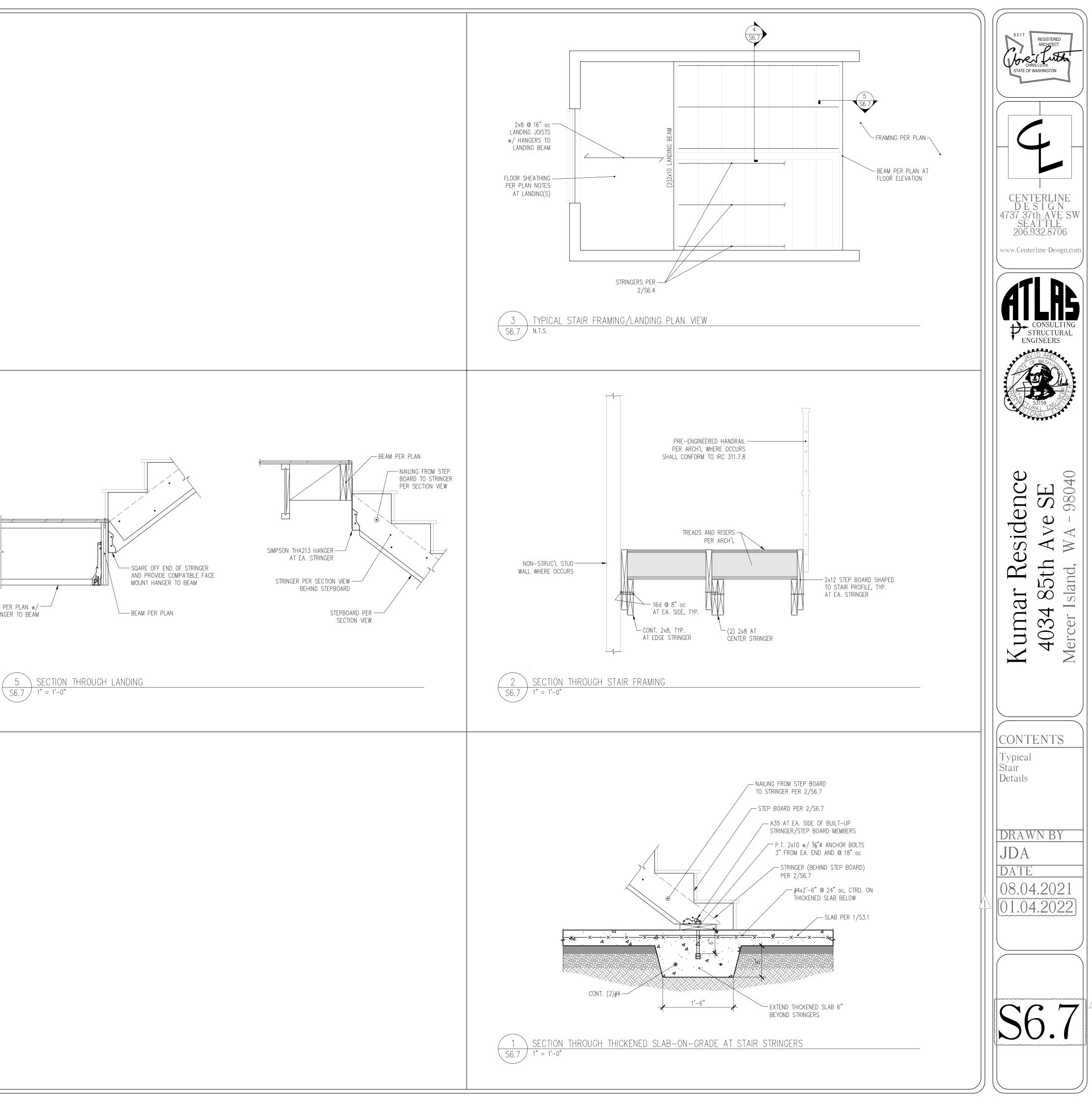
SHALL HAVE 4½"x3"0.229" PLATE WASHERS. THE EDGE OF PLATE WASHERS SHALL BE LOCATED WITHIN $\frac{1}{2}$ " OF THE EDGE OF BOTTOM PLATE

(9) CAST ANCHORS A MINIMUM OF 7" INTO CONCRETE. INSTALL ADDITIONAL ANCHOR BOLTS AT EACH SIDE OF PLATE BREAKS AND





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ORGANIC SOIL REQUIREMENT

MINIMUM 10% **ORGANIC MULCH &** COMPOST SOIL REQUIRED

SOIL AMENDMENT REQUIRED

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

SOIL INSPECTION REQUIRED BY ENGINEER

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

TREE PROTECTION

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

EROSION CONTROL LEGEND

LIMITS OF DISTURBANCE	
FILTER FABRIC FENCE (SILT FENCE)	SFx
STABILIZED CONSTRUCTION ENTRANCE	CE CE
CATCH BASIN INLET PROTECTION	
INTERCEPTOR SWALE SEE COR DWG 504, TYPE A TEMPORARY SWALE	
TREE PROTECTION FENCING	(TP)
CHECK DAM	
STRAW WATTLES	USE AS NEEDED

TREE PROTECTION NOTES (SOURCED FROM ARBORIST)

(REF: SEATTLE TREE CONSULTING, DOUGLAS SMITH, CERTIFIED ARBORIST) -FOR THE TREES BEING RETAINED, TREE PROTECTION FENCING SHOULD BE INSTALLED AT THE OUTER EDGE OF THE DRIP LINE OR AS CLOSE TO IT AS IS PRACTICALLY POSSIBLE.

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

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

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

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

-GRADE CHANGES IN THE CRZ ARE NOT PERMITTED.

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

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

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

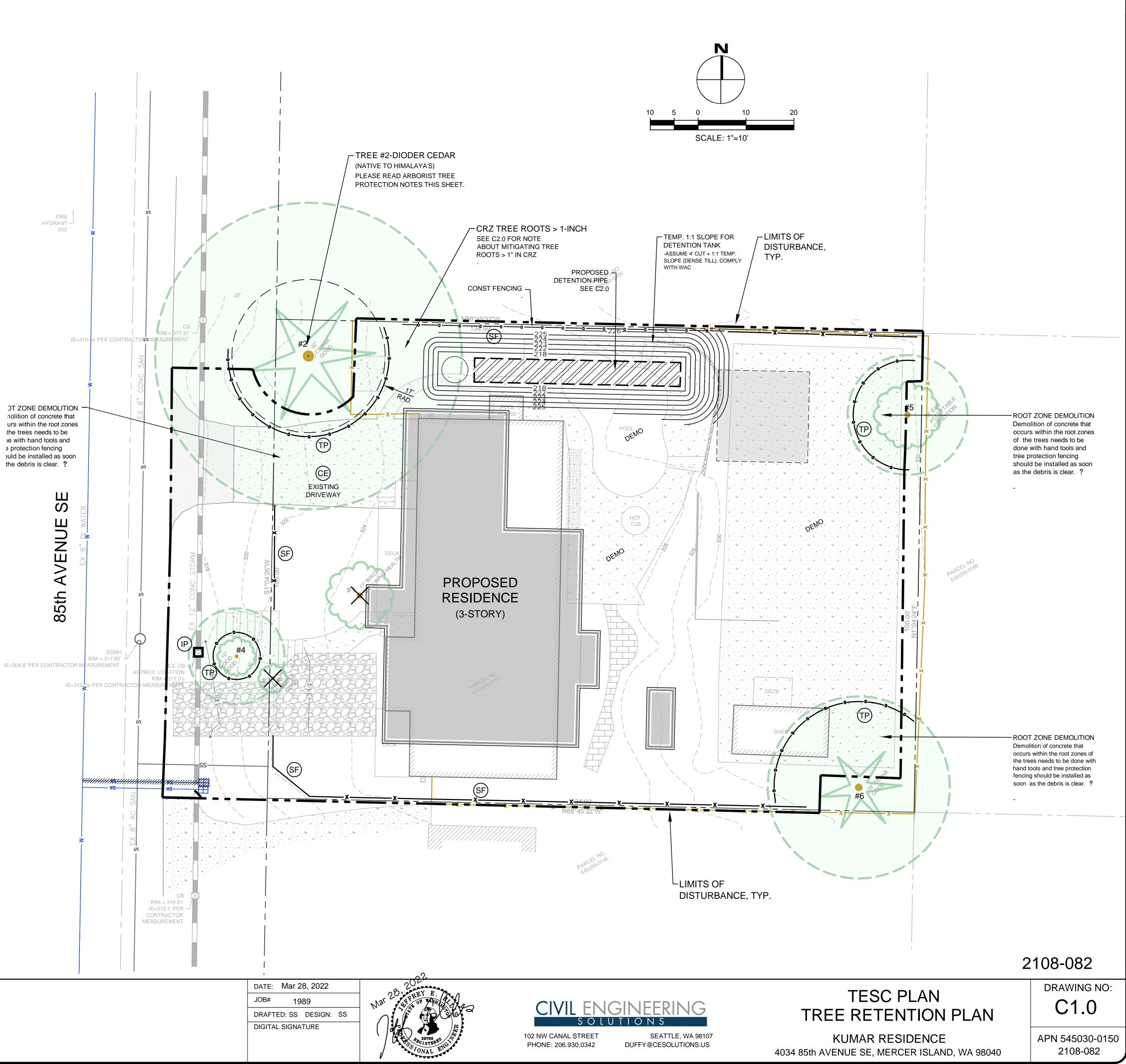
-PROPER CLEARANCES SHOULD BE MONITORED.

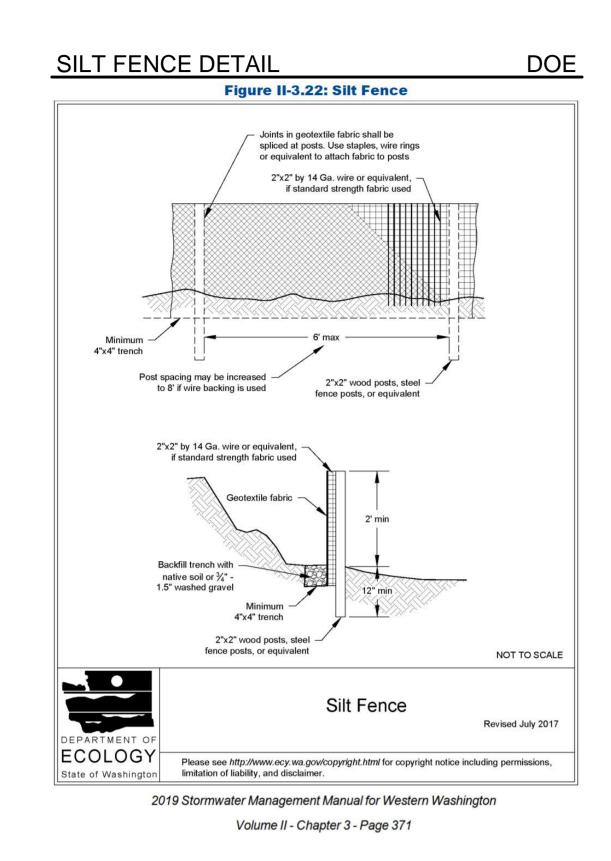
-THE CRZ OR CRITICAL ROOT ZONE NEEDS TO BE PROTECTED. THE INNER CRZ IS 50 % OF THE RADIUS OF THE CRZ AND THERE SHOULD BE ZERO DISTURBANCE IN THIS ZONE. A DISTURBANCE OF UP TO 33 % OF THE OUTER CRZ IS PERMISSIBLE PROVIDED THAT ANY HEAVY DIGGING EQUIPMENT WORKS TOWARD THE TREE, AND THAT ANY ROOTS ENCOUNTERED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

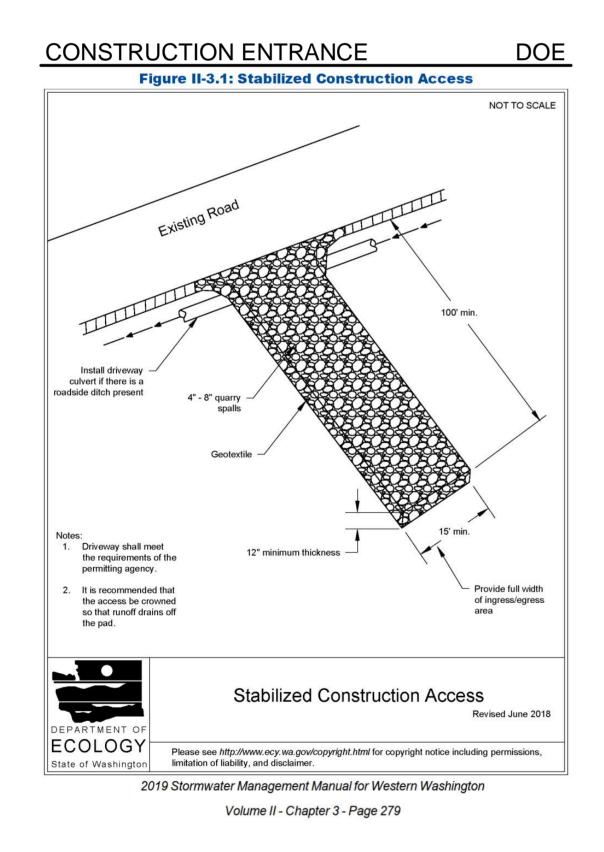
LINE RADIUS.	
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NO.	DATE	BY	REVISIONS	
				APPLICANT MIKE YEGENAH ASPEN HOMES

JT ZONE DEMOLITION nolition of concrete that urs within the root zones the trees needs to be ne with hand tools and Protection fencing ould be installed as soon the debris is clear. ?







NO. DATE BY REVISIONS APPLICANT MIKE YEGENAH ASPEN HOMES

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

RECOMMENDED CONSTRUCTION SEQUENCE

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

1. HOLD AN ONSITE PRE-CONSTRUCTION MEETING.

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

3. FLAG OR FENCE CLEARING LIMITS.

4. INSTALL CATCH BASIN PROTECTION, IF REQUIRED.

5. GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).

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

7. CONSTRUCT SEDIMENT PONDS AND TRAPS.

8. GRADE AND STABILIZE CONSTRUCTION ROADS.

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

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

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

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

14. SEED, SOD, STABILIZE, OR COVER ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.

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

DENUDED AREAS REQUIREMENTS

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

OCT 1 TO MARCH 31

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

EROSION CONTROL NOTES

D.8.2 STANDARD ESC PLAN NOTES

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

1. APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN DOES N CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZI AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIE UTILITIES, ETC.).

2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.

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

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

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

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

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

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

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

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

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

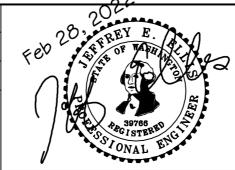
12. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE FACILITY FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY M BE ROUGH GRADED SO THAT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

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

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

DATE: Feb 28, 2022 JOB# 1989 DRAFTED: SS DESIGN: DE

DIGITAL SIGNATURE





CITY NOTES

2

A REVISION.

CAUSED FROM THIS CONSTRUCTION.

NOT /E ES,		BASINS/INLETS DOWNSLOPE AND WITHIN 500 FEET OF THE CONSTRUCTION AREA. CATCH BASIN FILTERS SHOULD BE DESIGNED BY THE MANUFACTURER FOR USE AT CONSTRUCTION SITES AND APPROVED BY THE CITY INSPECTOR. CATCH BASIN FILTERS SHOULD BE INSPECTED FREQUENTLY, ESPECIALLY AFTER STORM EVENTS. IF THE FILTER BECOMES CLOGGED, IT SHOULD BE CLEANED OR REPLACED.
/ESC	4.	CONTRACTORS SHALL VERIFY LOCATIONS AND DEPTHS OF UTILITES.
	5. 1.800	AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, CALL "ONE CALL" AT .424.5555
G	6.	DO NOT BACKFILL WITH NATIVE MATERIAL ON PUBLIC RIGHT-OF-WAY. ALL MATERIAL MUST BE IMPORTED
TION	7.	EROSION CONTROL: ALL "LAND DISTURBING ACTIVITY" IS SUBJECT TO
NG OF		PROVISIONS OF MERCER ISLAND ORDINANCE 95C-118 "STORM WATER MANAGEMENT." SPECIFIC ITEMS TO BE FOLLOWED AT YOUR SITE:
IAL Y BE	8.	PROTECT ADJACENT PROPERTIES FROM ANY INCREASED RUNOFF OR
		SEDIMENTATION DUE TO THE CONSTRUCTION PROJECT THROUGH THE USE OF APPROPRIATE "BEST MANAGEMENT PRACTICES" (BMP) EXAMPLES INCLUDE, BUT ARE NOT LIMITED TO, SEDIMENT TRAPS, SEDIMENT PONDS, FILTER FABRIC FENCES, VEGETATIVE BUFFER STRIPS OR BIOENGINEERED SWALES.
	9.	CONSTRUCTION ACCESS TO THE SITE SHOULD BE LIMITED TO ONE ROUTE.
CENT	5.	STABILIZE ENTRANCE WITH QUARRY SPALLS TO PREVENT SEDIMENT FROM LEAVING THE SITE OR ENTERING THE STORM DRAINS.
OR	10.	PREVENT SEDIMENT, CONSTRUCTION DEBRIS, PAINTS, SOLVENTS, ETC., OR
ND R		OTHER TYPES OF POLLUTION FROM ENTERING PUBLIC STORM DRAINS. KEEP ALL POLLUTION ON YOUR SITE.
S,	11.	ALL EXPOSED SOILS SHALL REMAIN DENUDED FOR NO LONGER THAN SEVEN (7) DAYS AND SHALL BE STABILIZED WITH MULCH, HAY, OR THE APPROPRIATE GROUND COVER. ALL EXPOSED SOILS SHALL BE COVERED IMMEDIATELY DURING ANY RAIN EVENT.
	12.	
LL		BOULDERS, BERMS, WALLS, GATES, AND OTHER IMPROVEMENTS ARE NOT ALLOWED IN THE PUBLIC RIGHT-OF-WAY WITHOUT PRIOR APPROVAL, AND AN
THE		ENCROACHMENT AGREEMENT AND RIGHT OF WAY PERMIT FROM THE SENIOR DEVELOPMENT ENGINEER.
ION D A WET	13.	OWNER SHALL CONTROL DISCHARGE OF SURFACE DRAINAGE RUNOFF FROM EXISTING AND NEW IMPERVIOUS AREAS IN A RESPONSIBLE MANNER. CONSTRUCTION OF NEW GUTTERS AND DOWNSPOUTS, DRY WELLS, LEVEL SPREADERS OR DOWNSTREAM CONVEYANCE PIPE MAY BE NECESSARY TO MINIMIZE DRAINAGE IMPACT TO YOUR NEIGHBORS. CONSTRUCTION OF MINIMUM DRAINAGE IMPROVEMENTS SHOWN OR CALLED OUT ON THIS PLAN DOES NOT
S SH	14.	IMPLY RELIEF FROM CIVIL LIABILITY FOR YOUR DOWNSTREAM DRAINAGE. POT HOLING THE PUBLIC UTILITIES IS REQUIRED PRIOR TO ANY GRADING ACTIVITIES LESS THAN 6" OVER THE PUBLIC MAINS (WATER, SEWER AND STORM SYSTEMS). IF THERE IS A CONFLICT, THE APPLICANT IS REQUIRED TO SUBMIT A REVISION FOR APPROVAL PRIOR TO ANY GRADING ACTIVITIES OVER THE PUBLIC
		MAINS.
IS TO IUST	15.	REMEMBER: EROSION CONTROL IS YOUR FIRST INSPECTION.
	16. INSPI	ROOF DRAINS MUST BE CONNECTED TO THE STORM DRAIN SYSTEM AND ECTED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO ANY BACKFILLING OF PIPE.
HE	17.	SILENT FENCE: CLEAN AND PROVIDE REGULAR MAINTENANCE OF THE SILT FENCE. THE FENCE IS TO REMAIN VERTICAL AND IS TO FUNCTION PROPERLY THROUGHOUT THE TERM OF THE PROJECT.
S FOR	18.	WORK IN PUBLIC RIGHT OF WAY REQUIRES A RIGHT-OF-WAY USE PERMIT.
HE	19.	REFER TO WATER SERVICE PERMIT FOR ACTUAL LOCATION OF NEW WATER METER AND SERVICE LINE DETERMINED BY MERCER ISLAND WATER DEPARTMENT.
	16.	THE TV INSPECTION OF THE EXISTING SIDE SEWER TO THE CITY SEWER MAIN IS REQUIRED. IF THE RESULT OF THE TV INSPECTION IS NOT IN SATISFACTORY CONDITION, AS DETERMINED BY THE CITY OF MERCER ISLAND INSPECTOR, THE REPLACEMENT OF THE EXISTING SIDE SEWER IS REQUIRED. ALTERNATELY, A PRESSURE TEST OF THE SIDE SEWER, FROM SEWER MAIN TO POINT OF CONNECTION, MAY BE SUBSTITUTED FOR THE VIDEO INSPECTION.
	20.	NEWLY INSTALLED SIDE SEWER REQUIRES A 4 P.S.I. AIR TEST OR PROVIDE 10' OF HYDROSTATIC HEAD TEST.
	21.	POT HOLING THE PUBLIC UTILITIES IS REQUIRED PRIOR TO ANY GRADING ACTIVITIES LESS THAN 6" OVER THE PUBLIC MAINS (WATER, SEWER AND STORM SYSTEMS). IF THERE IS A CONFLICT, THE APPLICANT IS REQUIRED TO SUBMIT A REVISION FOR APPROVAL PRIOR TO ANY GRADING ACTIVITIES OVER THE PUBLIC

ANY CHANGES TO THE APPROVED PLANS REQUIRES CITY APPROVAL THROUGH

APPLICANT IS RESPONSIBLE FOR ANY DAMAGES TO UNDERGROUND UTILITIES

3. CATCH BASIN FILTERS SHOULD BE PROVIDED FOR ALL STORM DRAIN CATCH

22. THE LIMITS AND EXTENDS OF THE PAVEMENT IN THE PUBLIC RIGHT OF WAY SHALL BE DETERMINED BY THE CITY ENGINEER PRIOR TO FINALIZE THE PROJECT.

MAINS.

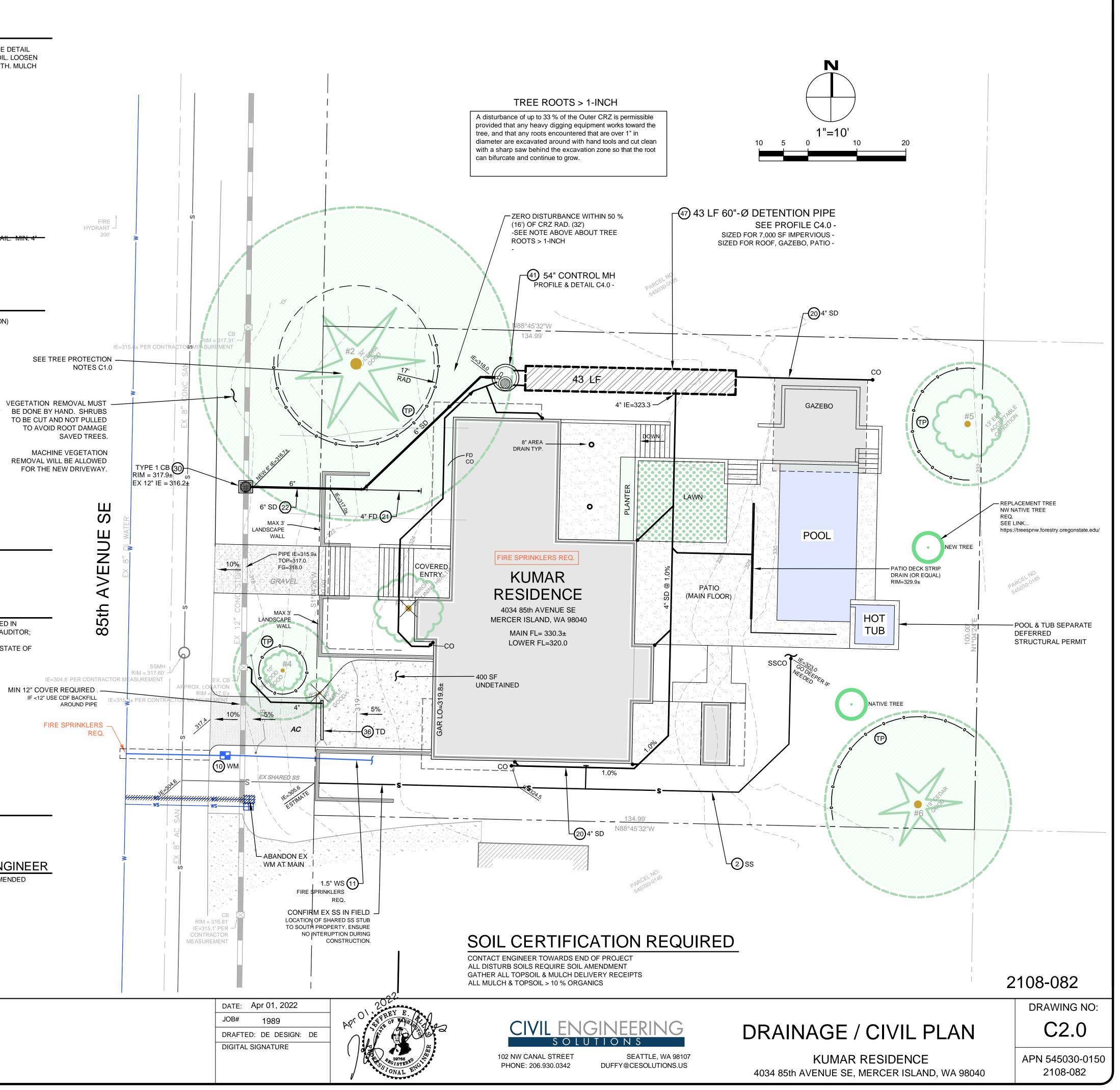
TESC & CITY NOTES TESC DETAILS KUMAR RESIDENCE 4034 85th AVENUE SE, MERCER ISLAND, WA 98040 2108-082

DRAWING NO:

C1.2

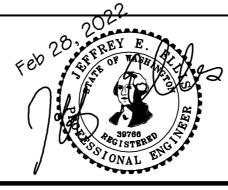
APN 545030-0150 2108-082

SANITARY SEWER IMPROVEMENTS	STORM BMP's
① -	-COMPOST AMENDED SOIL TO ALL DISTURBED AREAS (SEE SHEET C3.5). TILL 2-3" OF COMPOST INTO UPPER 8" OF SOIL
2 -6" SDR 35 PVC SANITARY SEWER(SS) @ MIN 1.0 %.	COMPACTED SUBSOIL, IF NEEDED BY RIPPING TO 12" DEPT LANDSCAPE BEDS AFTER PLANTING.
3 -	(51) -
(4) -	(52) -
⑦ -	
	53 -
WATER IMPROVEMENTS	<u>(54)</u> -
• RESIDENTIAL WATER SERVICE & METER PIT. CONFIRM REQUIRED SIZE WITH BUILDING PERMIT REVIEW. INSTALL PER MERCER ISLAND DETAIL W-13, W-14, OR W-14A DEPENDING ON SIZE REQUIREMENT.	55 -
1) -1.5" 250 PSI PRIVATE HDPE WATER (ASTM D2239) FROM METER TO HOUSE. RECOMMENDED DEPTH=36". COORDINATE HOUSE ENTRY	56 -
WITH BUILDER/OWNER.	(57)PERMEABLE PAVER SURFACE (DRIVEWAY) PER DOE DETA -DEEP RESERVOIR COURSE. SEE DETAIL ON C3.5.
	(58) -
14) -	
STORM DRAIN	TREE PROTECTION
	(ALSO SEE SHEET TESC SHEET C1.0 FOR TREE PROTECTION
	(ALSO SEE SHEET TESC SHEET CT.0 FOR TREE PROTECTION (TP) CHAIN LINK FENCE TREE PROTECTION AT DRIPLINE / CRZ
 -4" FOUNDATION DRAIN (3034 PVC) @ MIN 1 % GRADE -6" STORM DRAIN (3034 PVC) @ MIN 2 % GRADE -6" STORM DRAIN (3034 PVC) @ MIN 2 % GRADE 	
④④	
25) -	
25) - 26) -	TOPOGRAPHIC & BOUNDARY SURVEY BY: SITE SURVEYING, INC. 21923 NE 11th STREET
	21923 NE 11th STREET SAMMAMISH, WA 98074 PHONE 425-298-4412
	PHONE 425-298-4412 www.sitesurveymapping.com
28 - 29 -	
30 -TYPE 1 CB WITH STANDARD GRATE. MAX 5' RIM TO FL DEPTH.	VERTICAL DATUM NAVD 88 PER POINT ID NO. 2150 SEE SURVEY
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 3) -TYPE 1 CB WITH STANDARD GRATE. MAX 5' RIM TO FL DEPTH. 3) - 4) - 54" ID TYPE 2 MH CONTROL STRUCTURE WITH SOLID LID. SEE ALL DETAILS AND PROFILE C4.0. 4) - 4) - 4) - 4) - 4) - 54" ID TYPE 2 MH CONTROL STRUCTURE WITH SOLID LID. SEE ALL DETAILS AND PROFILE C4.0. 4) - 4) - 54" DETENTION PIPE: ALUMINIZED CMP @ 0.5 % GRADE. SEE PLAN FOR SIZE AND CONFIGURATION. SEE PROFILE, NOTES, AND DETAILS ON C4.0. 	<text><text><text><text><text><section-header><section-header></section-header></section-header></text></text></text></text></text>
 TYPE 1 CB WITH STANDARD GRATE. MAX 5' RIM TO FL DEPTH. 	<text><text><text><text><text><section-header><section-header></section-header></section-header></text></text></text></text></text>
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 30 -TYPE 1 CB WITH STANDARD GRATE. MAX 5' RIM TO FL DEPTH. 31 - 32 - 33 - 34 - 35 -18" YARD DRAIN (OR EQUAL) 36" WIDE NDS DURASLOPE CHANNEL DRAIN KIT OR EQUAL. VEHICLE RATED, GALVANIZED STEEL GRATE 39 - 39 - 39 - 40 - 41 -54" ID TYPE 2 MH CONTROL STRUCTURE WITH SOLID LID. SEE ALL DETAILS AND PROFILE C4.0. 43 - 44 - 45 - 46 - 47 DETENTION PIPE: ALUMINIZED CMP @ 0.5 % GRADE. SEE PLAN FOR SIZE AND CONFIGURATION. SEE PROFILE, NOTES, AND DETAILS ON C4.0. 	<text><text><text><text><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></text></text></text></text>
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NO.	DATE	BY	REVISIONS	APPLICANT MIKE YEGENAH ASPEN HOMES

DATE:	Feb 2	8, 2022		
JOB#	19	89		
DRAFT	ED: SS	DESIGN:	SS	
DIGITAL SIGNATURE				





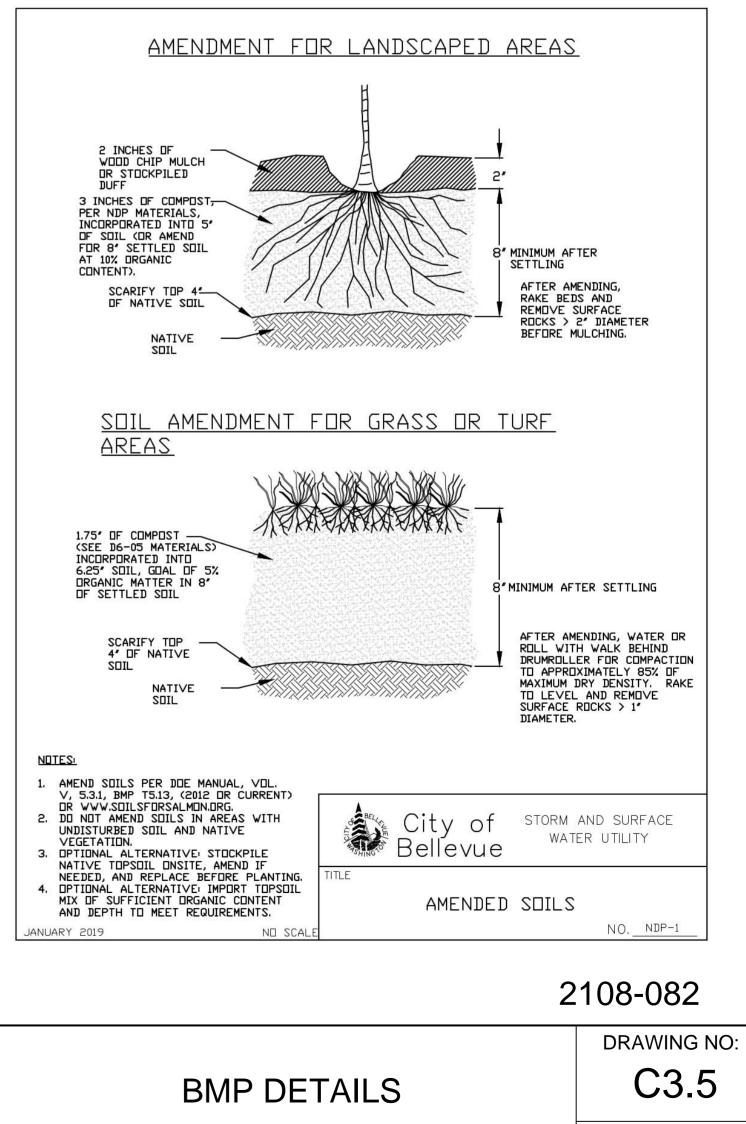
10% MIN ORGANICS REQUIRED FOR TOPSOIL & MULCH

SOIL AMENDMENT REQUIRED

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

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

COMPOST AMENDED SOIL SPEC



SEATTLE, WA 98107 DUFFY@CESOLUTIONS.US

KUMAR RESIDENCE 4034 85th AVENUE SE, MERCER ISLAND, WA 98040 APN 545030-0150 2108-082

MERCER ISLAND DETENTION "TABLE 1" Table 1

I ADIE L ON-SITE DETENTION DESIGN FOR PROJECTS BETWEEN 500 SF AND 9,500 SF NEW PLUS REPLACED IMPERVIOUS SURFACE AREA									
New and Replaced		Detention Pipe Lowest Orifice D Length (ft) Diameter (in) ⁽³⁾		Distance from Outlet Invert to Second Orifice (ft)		Second Orifice Diameter (in)			
Impervious Surface Area (sf)	Detention Pipe Diameter (in)	B souls	C soils	Besuls	C soils	Barouls	C soils	Bassils	C soils
	36"	30	22	0.5	0.5	2.2	2.0	0.5	0.8
500 to 1,000 sf	48"	18	11	0.5	0.5	3.3	3.2	0.9	0.8
	60"	11	7	0.5	0.5	4.2	3.4	0.5	0.6
	36"	66	43	0.5	0.5	2.2	2.3	0.9	1.4
1,001 to 2,000 sf	48"	34	23	0.5	0.5	3.2	3.3	0.9	1.2
	60"	22	14	0.5	0.5	4.3	3.6	0.9	0.9
	36"	90	66	0.5	0.5	2.2	2.4	0.9	1.9
2,001 to 3,000 sf	48"	48	36	0.5	0.5	3.1	2.8	0.9	1.5
	60"	30	20	0.5	0.5	4.2	3.7	0.9	1.1
	36"	120	78	0.5	0.5	2.4	2.2	1.4	1.6
3,001 to 4,000 sf	48"	62	42	0.5	0.5	2.8	2.9	0.8	1.3
	60"	42	26	0.5	0.5	3.8	3.9	0.9	1.3
	36"	134	91	0.5	0.5	2.8	2.2	1.7	1.5
4,001 to 5,000 sf	48"	73	49	0.5	0.5	3.6	2.9	1.6	1.5
	60"	46	31	0.5	0.5	4.6	3.5	1.6	1.3
	36"	162	109	0.5	0.5	2.7	2.2	1.8	1.6
5,001 to 6,000 sf	48"	90	59	0.5	0.5	3.5	2.9	1.7	1.5
	60"	54	37	0.5	0.5	4.6	3.6	1.6	1.4
	36"	192	128	0.5	0.5	2.7	2.2	1.9	1.8
6,001 to 7,000 sf	48"	102	68	0.5	0.5	3.7	2.9	1.9	1.6
	60"	64	(43)	0.5	0.5	4.6	(3.6)	1.8	(1.5)
	36"	216	146	0.5	0.5	2.8	2.2	2.0	1.9
7,001 to 8,000 sf	48"	119	79	0.5	0.5	3.8	2.9	2.2	1.7
	60"	73	49	0.5	0.5	4.5	3.6	2.0	1.6
	36"	228	155	0.5	0.5	2.8	2.2	2.1	1.9
8,001 to 8,500 sf ⁽¹⁾	48"	124	84	0.5	0.5	3.7	2.9	1.9	1.8
-,	60"	77	53	0.5	0.5	4.6	3.6	2.0	1.6
	36"	NA (1)	164	0.5	0.5	NA ⁽¹⁾	2.2	NA (1)	1.9
8,501 to 9,000 sf	48"	NA (1)	89	0.5	0.5	NA (1)	2.9	NA (1)	1.9
0,501 10 5,000 31	60"	NA (1)	55	0.5	0.5	NA (1)	3.6	NA (1)	1.7
	36"	NA (1)	174	0.5	0.5	NA ⁽¹⁾	2.2	NA (1)	2.1
9,001 to 9,500 sf ⁽²⁾	48"	NA (1)	94	0.5	0.5	NA (1)	2.9	NA (1)	2.0
	60"	NA (1)	58	0.5	0.5	NA (1)	3.7	NA (1)	1.7

 Soil type to be determined by geotechnical analysis or soil map. Sizing includes a Volume Correction Factor of 120%.

 Upper bound contributing area used for sizing. ⁽¹⁾ On Type B soils, new plus replaced impervious surface areas exceeding 8,500 sf trigger Minimum Requirement #7 (Flow Control) ⁽²⁾ On Type C soils, new plus replaced impervious surface areas

⁽³⁾ Minimum orifice diameter = 0.5 inches in = inch

ft = feet sf = square feet

IMPERVIOUS TABLE

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Kumar Reside
5.2 578.645 T
Gross Site area
Existing Impervio
t
1
Proposed Imper
Proposed hous
Proposed gaze
Proposed pool
Proposed drive
tota

NO. DATE BY REVISIONS Image: Applicant mike years Applicant mike years					
MIKE YEGENAH	NO.	DATE BY	NO.	REVISIONS	
					MIKE YEGENAH

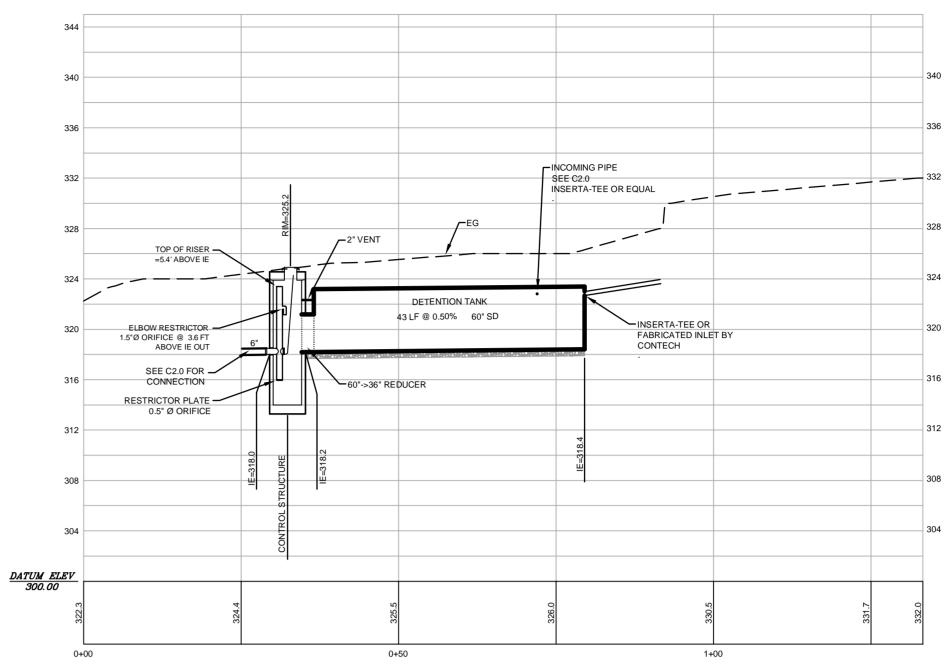
• Minimum Requirement #7 (Flow Control) is required when the 100-year flow frequency causes a 0.15 cubic feet per second increase (when modeled in WWHM with a 15-minute timestep). Breakpoints shown in this table are based on a flat slope (0-5%). The 100-year flow frequency will need to be evaluated on a site-specific basis for projects on moderate (5-15%) or steep (> 15%) slopes.

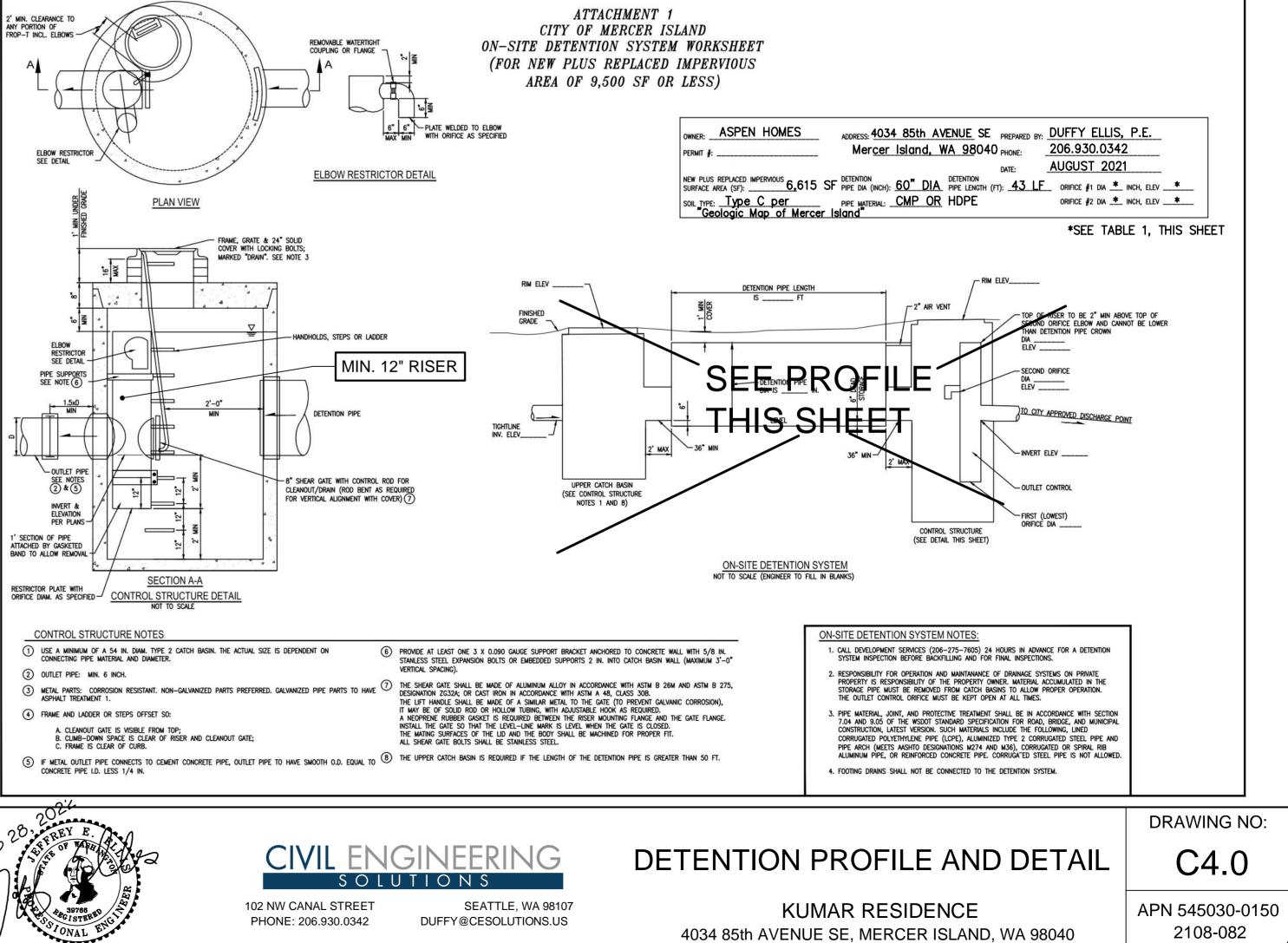
Basis of Sizing Assumptions:

exceeding 9,500 sf trigger Minimum Requirement #7 (Flow Control)

Sized per MR#5 in the Stormwater Management Manual for Puget Sound Basin (1992 Ecology Manual) SBUH, Type 1A, 24-hour hydrograph 2-year, 24-hour storm = 2 in; 10-year, 24-hour storm = 3 in; 100-year, 24-hour storm = 4 in Predeveloped = second growth forest (CN = 72 for Type B soils, CN = 81 for Type C soils) Developed = impervious (CN = 98) 0.5 foot of sediment storage in detention pipe Overland slope = 5%

Impervious Area Spreadsheet						
sidence - 4034 85th Avenue SE, Mercer Island, WA 98040						
ea	13,499	sf				
	0.310	acres				
ervious Area	8,712	sf				
total existing impervious area =	8,712	sf				
total existing vegetated area =	4,787	sf				
pervious Area (on-site)						
ouse roof	3,276	sf				
azebo roof	361	sf				
ool/hardscape, exposed	2,154	sf				
riveway, on-site, exposed	381	sf				
total on-site proposed =	6,172	sf				
total new + replaced impervious =	(2,540)	sf				
new impervious area =	(2,540)	sf				
total proposed vetetated area =	7,327	sf				





DATE: Feb 28, 2022 JOB# 1989

DRAFTED: SS DESIGN: SS DIGITAL SIGNATURE





DETENTION PROFILE

SCALE: HORIZONTAL 1"=10', VERTICAL 1"=5'

MERCER ISLAND DETENTION DETAIL

