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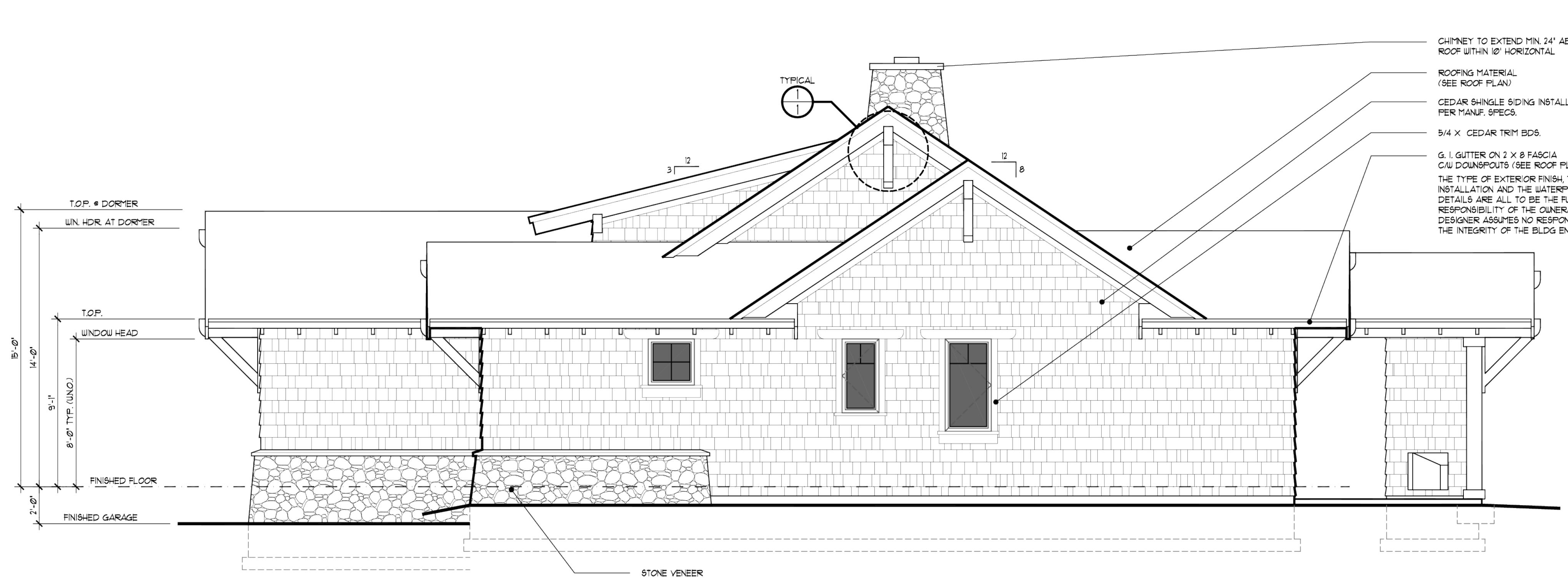
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125107

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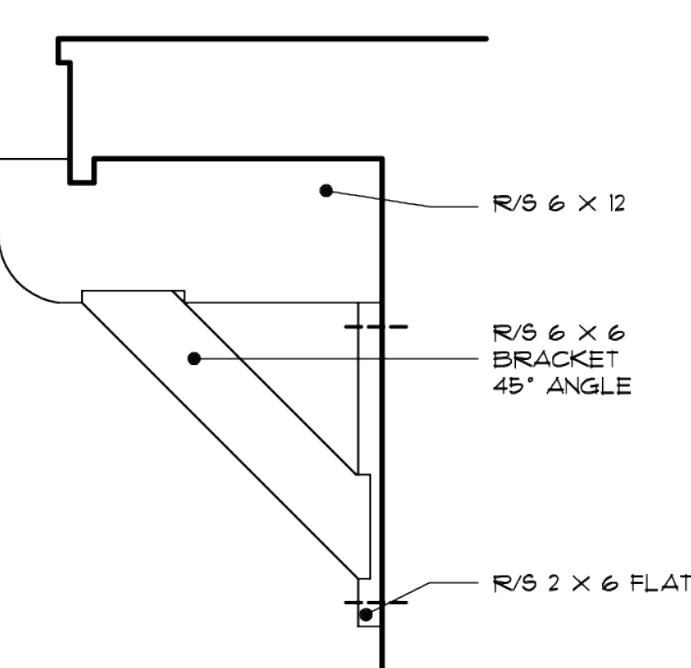
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RIGHT SIDE ELEVATION

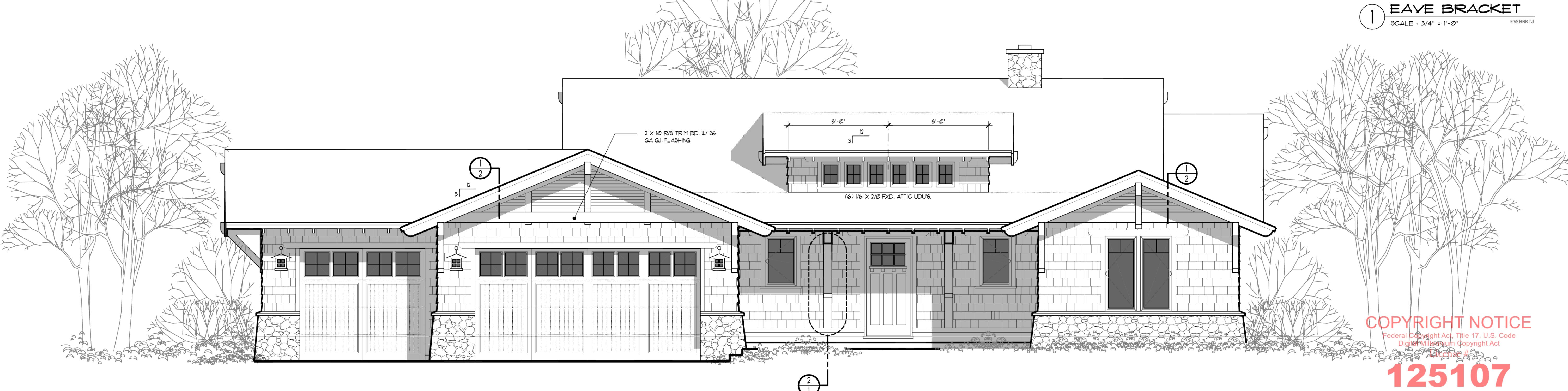
SCALE: 1/4" = 1'-0"



1 EAVE BRACKET

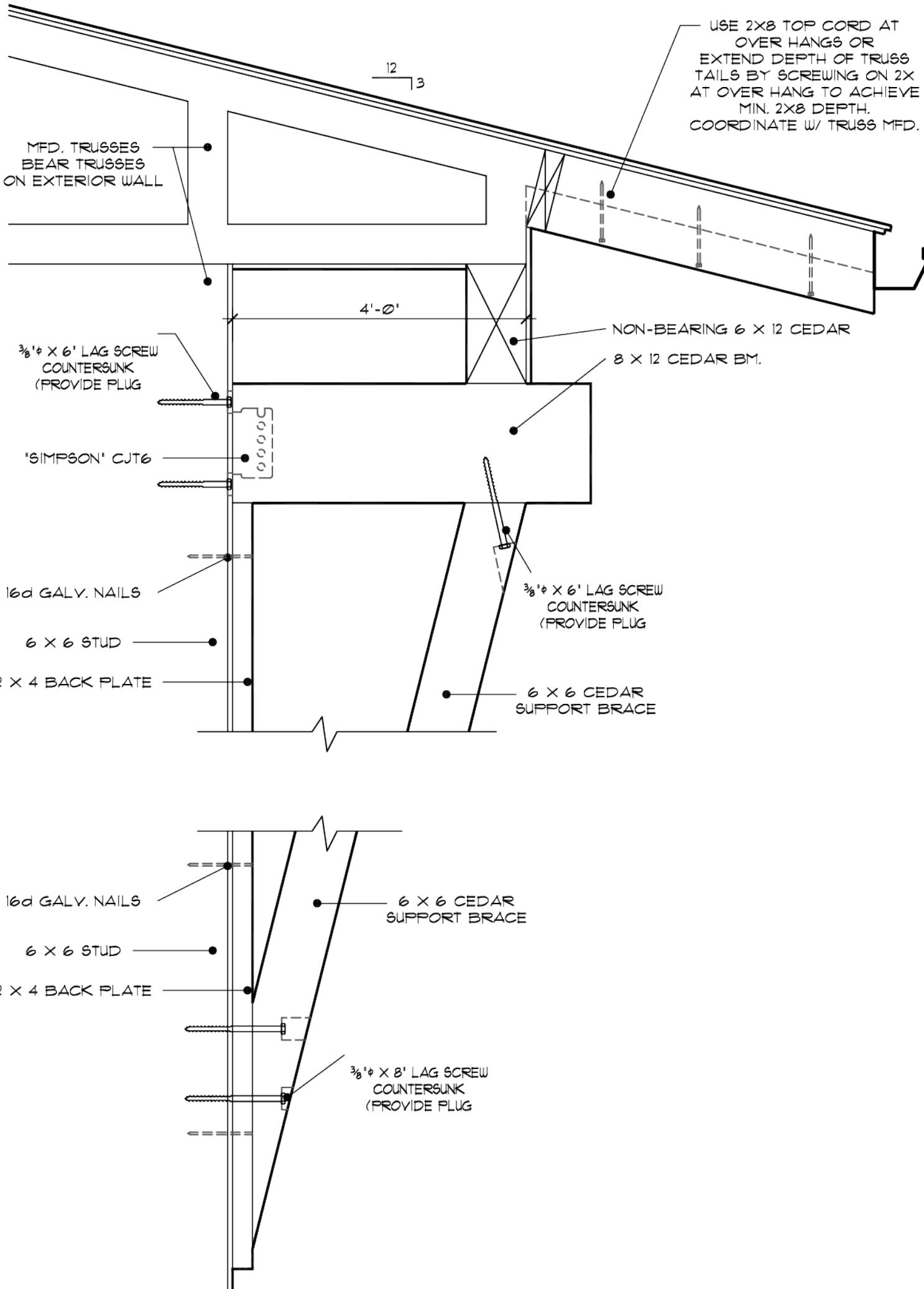
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EVEBRKT3



FRONT ELEVATION

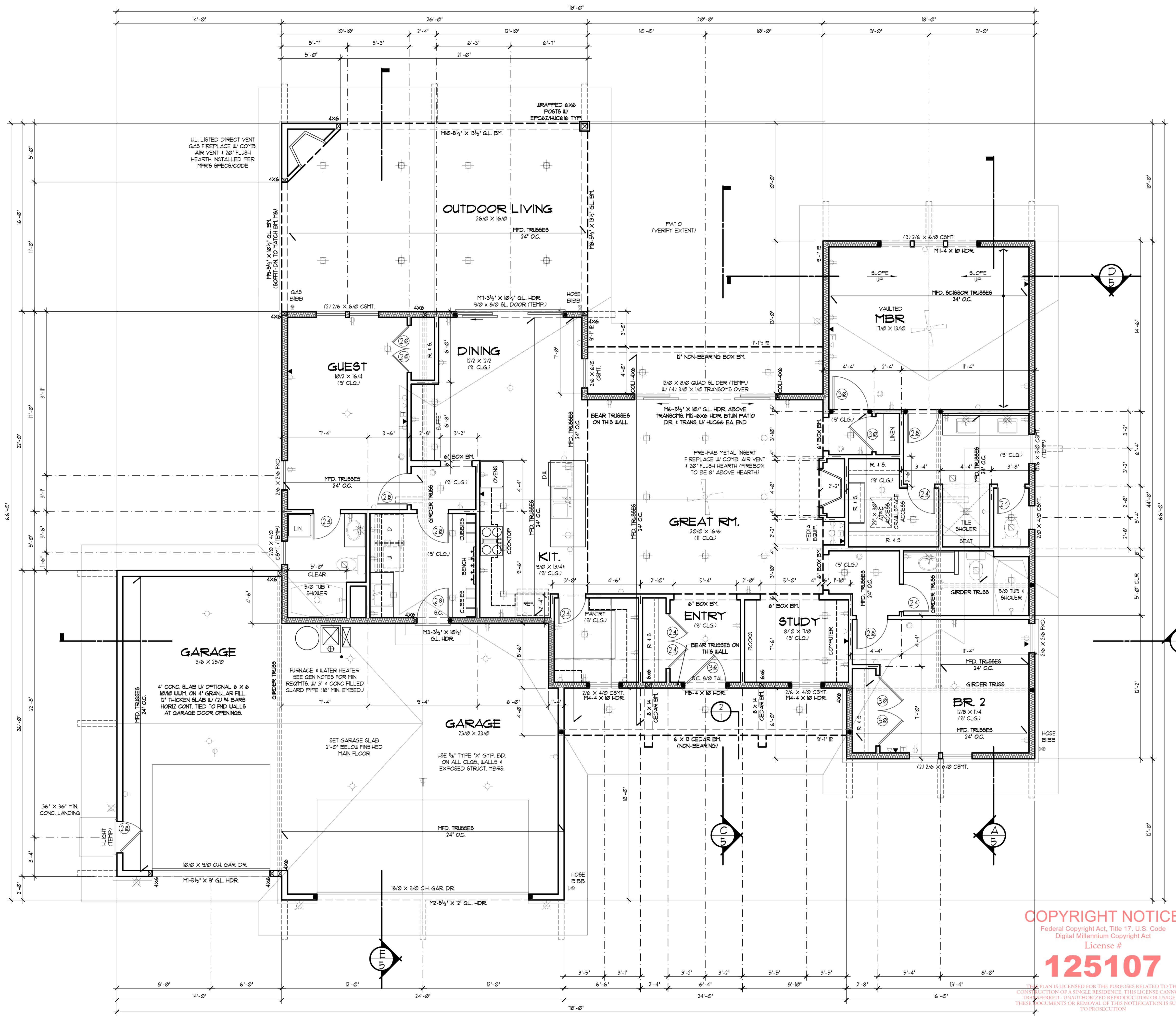
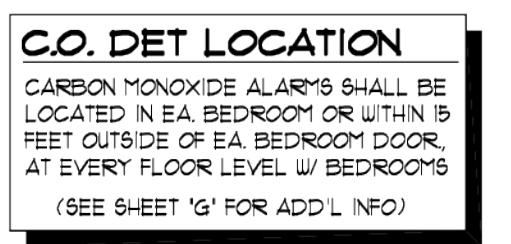
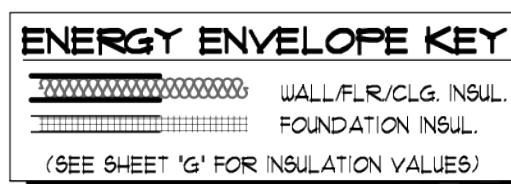
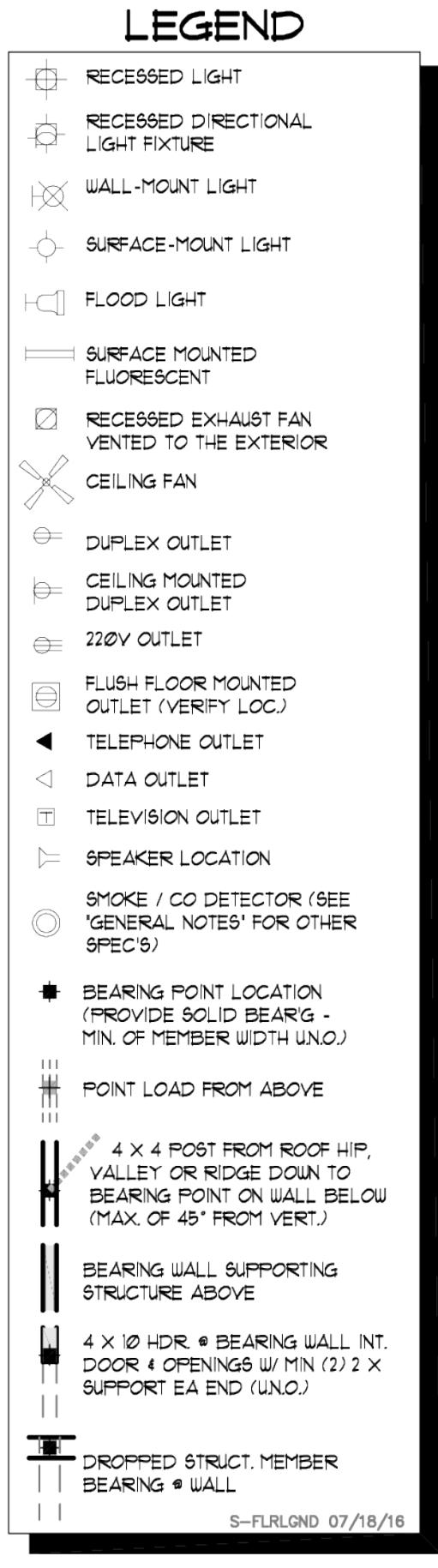
SCALE: 1/4" = 1'-0"



2 PORCH BRACKET

SCALE: NO SCALE





MAIN FLOOR PLAN

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

REFER TO ENGINEERING SHEETS FOR LATERAL  
SPECIFICATIONS PRIOR TO CONSTRUCTION

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FOUNDATION VENTILATION CALCULATIONS (SEE GENERAL NOTES FOR ADDITIONAL INFORMATION)						
DESCRIPTION	UNDER-FLOOR AREA (FT <sup>2</sup> )	NET AREA (IN <sup>2</sup> ) PER VENT	QTY OF VENTS REQD (WITHOUT CLASS-1 VAPOR BARRIER)	QTY OF VENTS REQD (WITH CLASS-1 VAPOR BARRIER)	MECHANICAL VENTILATION RATE (CFM)	DEHUMIDIFICATION RATE (PINTS PER DAY)
AMOUNT/QTY	1513	45	33	4	303	1059
CODE REF.			R4081 & R4082	R4081 & R4082	R4083 & R40211	R408324
NOTES			1/10 OF UNDER-FLOOR AREA (VAPOR BARRIER REQUIRED)	1/10 OF UNDER-FLOOR AREA (VAPOR BARRIER PERM RATING < 0.1)	MECHANICAL VENT CAPABLE OF 10 CFM PER 50 FT <sup>2</sup> OF UNDER-FLOOR AREA	

**ISOLATED FOOTING SCHEDULE**

TAZ	PAZ SIZE	REINFORCING	MAX BRG
F20	18" x 1"	NA	2,414
F20	20" x 20" x 10"	NA	3,819
F24	24" x 24" x 1"	NA	5,402
F28	28" x 28" x 4"	NA	7,711
F30	30" x 30" x 5"	NA	8,023
F36	36" x 36" x 3"	(4) #4 BARS @ 1" CC, ENR	10,521
F42	42" x 42" x 2"	(5) #4 BARS @ 1" CC, ENR	10,531
F48	48" x 48" x 2"	(6) #4 BARS @ 1" CC, ENR	11,020
F54	54" x 54" x 2"	(6) #4 BARS @ 1" CC, ENR	21,331
F60	60" x 60" x 2"	(7) #4 BARS @ 1" CC, ENR	33,750

ASSUMED MIN. 4X4 DF. COLUMN (NO. - SEE PLANS)

4X4 DF. COLUMN FOR MAX. BRG

4X3 1/2" PS. COLUMN FOR MAX. BRG (OR 6X6 TO 18,521)

5X4 1/2" PS. COLUMN FOR MAX. BRG (OR 6X6 TO 18,521)

(SEE POST-CON. DETAIL)

SOL. BP. = 1500 PSF

1/4" TOL.

COL (SEE PLAN)

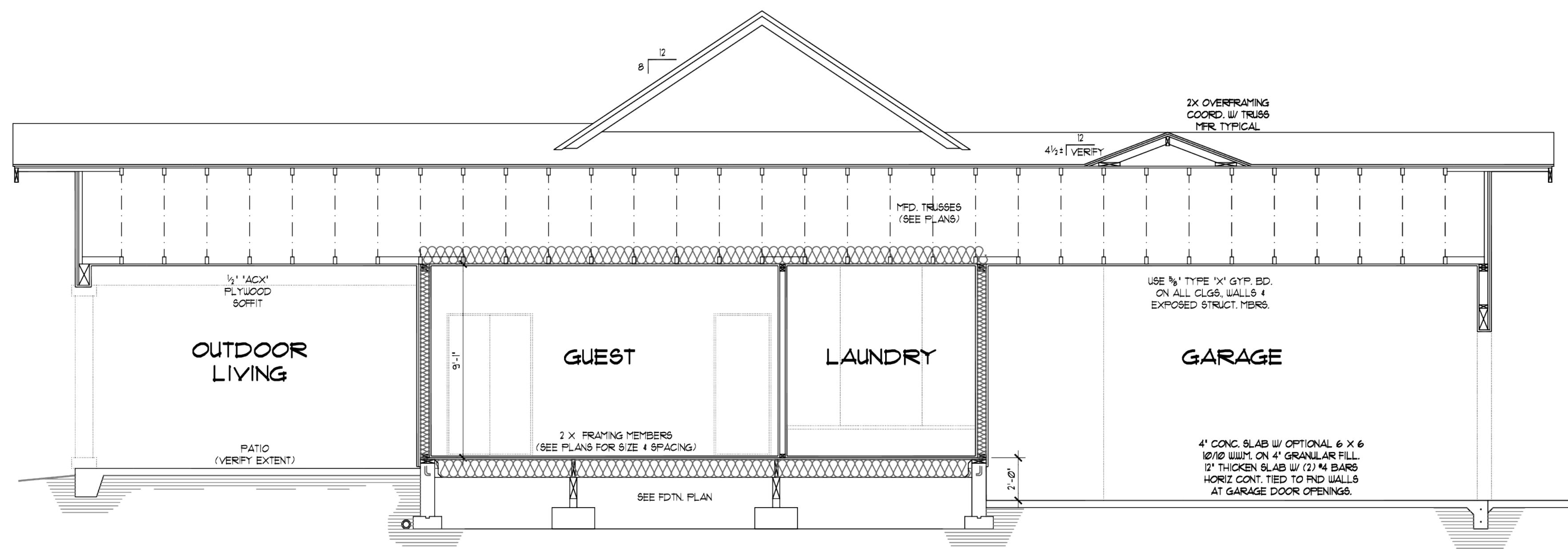
SLOPE 1/4 FT MIN

(2) #4 BARS CONT. T & B

\* WHERE FOOTING SUPPORTS STRUCTURE DEPTH TO BE MIN. 18" BELOW FIN. GRADE.

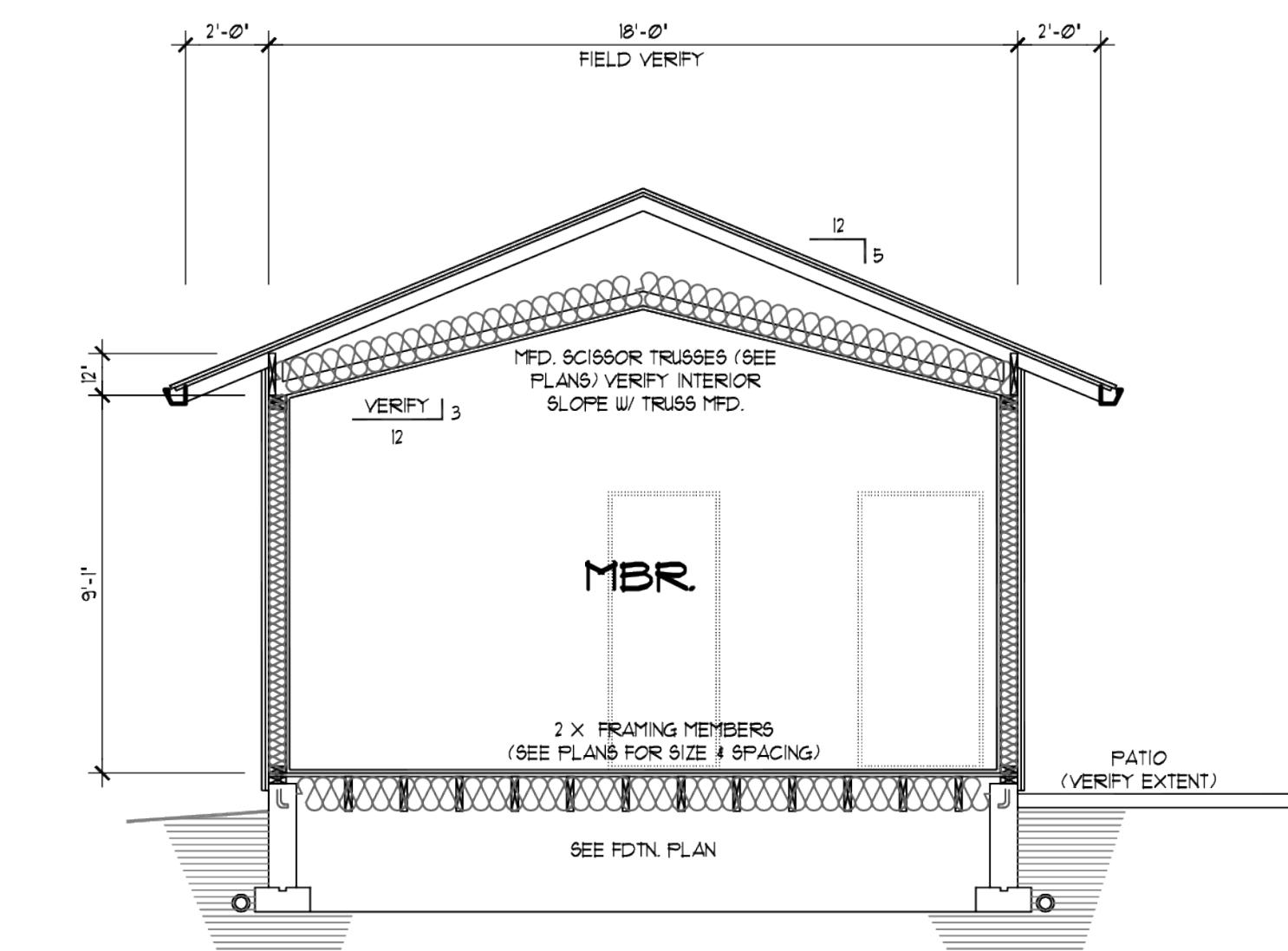
12'

12' MIN. x 6'



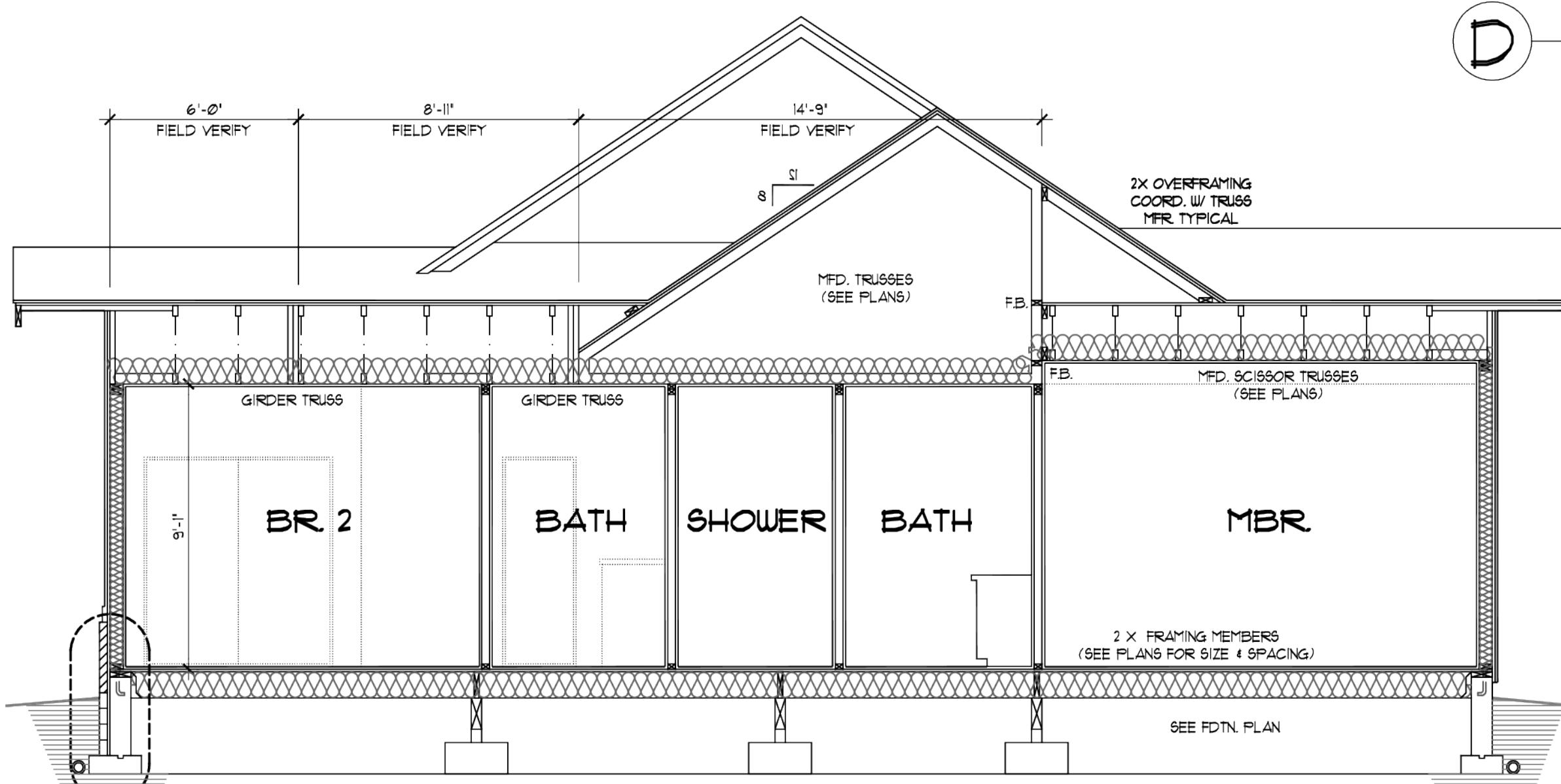
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SCALE : 1/4" = 1'-0"



# BUILDING SECTION

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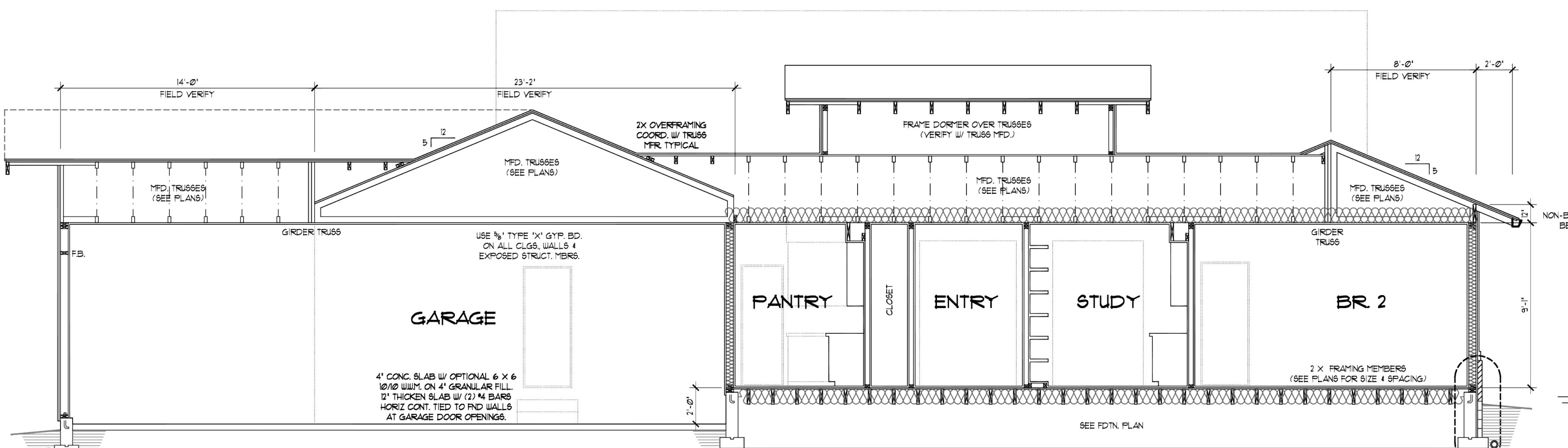




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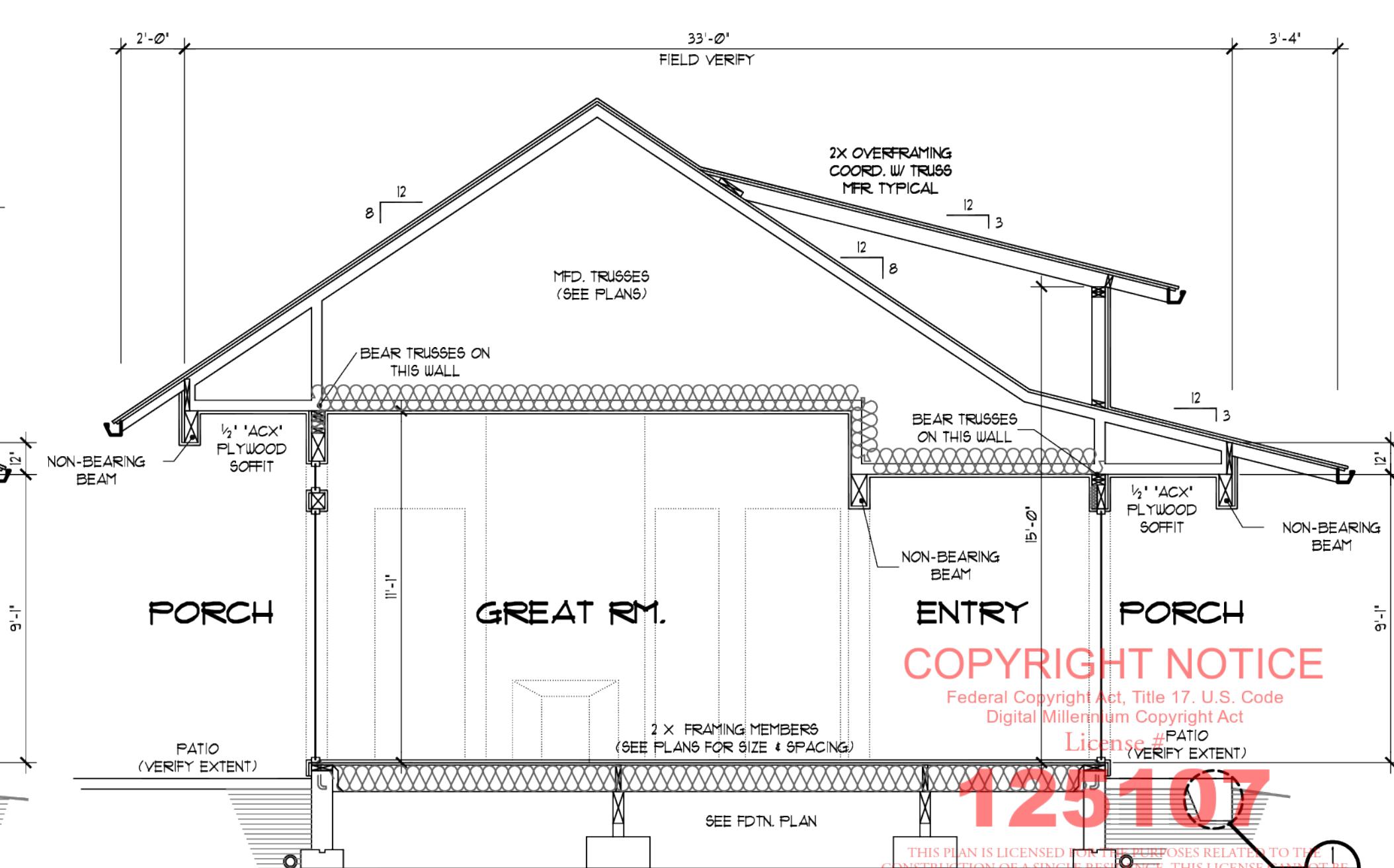
SCALE : 1/4" = 1'-0"

SCALE 1/16" = 1'



# BUILDING SECTION

SCALE : 1/4 = 1-0



# BUILDING SECTION

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

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## ROOF DESIGN NOTES

THIS ROOF HAS BEEN DESIGNED TO SUPPORT CEDAR SHAKE ROOFING MATERIALS AND COMPOSITION ROOFING (VARIOUS TYPES). THE TABLE BELOW DESCRIBES IN DETAIL THE ASSUMPTIONS MADE IN THE DESIGN OF THE ROOF STRUCTURE OF THIS BUILDING.

ROOF LIVE LOAD (SNOW)	25.0 PSF	32.5 PSF	AVL (WET)
FRAMING MATERIALS	2x6 PSF	15 PSF	33.25 PSF
SHEATHING MATERIALS	15 PSF	6.75 PSF	ACTUAL REQD SAFETY FACTOR
MISC. MATERIALS	15 PSF		
ROOFING TYPE	DRY / WET		
HED SHAKES	20 / 32 PSF		
Hvy SHAKES	20 / 40 PSF		
SINGLES	20 / 32 PSF		
COMPOSITION	25 / 30 PSF		

**40.0** PSF TL

GYPSUM MATERIALS: ADD 2.0 PSF FOR VAULTED AREAS (COVERED IN SAFETY FACTOR)

NOTE: HIPS, VALLEYS & RIDGES SHALL NOT BE LESS IN DEPTH THAN THE END CUT OF THE RAFTERS (FIELD VERIFY ALL CONDITIONS)

## LEGEND

COMP/SHAKE ROOF			
MAXIMUM SPANS PER 2004 WUFA TBL. RR-2B			
	SIZE	SPACING	SPAN
4 X 4 WOOD POST FROM RIDGE (HIP OR VALLEY) TO WALL BELOW 12'-0" (24'-0" MAX) BEARING POINT. NOTE: SPLICES IN HIPS & VALLEYS CAN ONLY OCCUR @ POST DOWN LOCATIONS	2x6	12' O.C.	14'-0"
		16' O.C.	12'-1"
		24' O.C.	9'-10"
40 SQ. IN. ROOF VENTS (SEE VENT TABLE FOR QTY. - 50% BLDG. SHOWN)	2x8	12' O.C.	17'-8"
2x4 FURIN WALL TO E.M. OR WALL BELOW (FRAMING AT 24' O.C.)		16' O.C.	15'-4"
		24' O.C.	12'-6"
SHADED AREA DENOTES ROOF FRAMED OVER RAFTERS BELOW	2x10	12' O.C.	21'-1"
		16' O.C.	18'-9"
		24' O.C.	15'-3"
DOWNPOLTS	2x12	12' O.C.	25'-1"
		16' O.C.	21'-8"
		24' O.C.	17'-9"

ROOF VENTS		
ROOF AREA (m²)	EAVE-BLOCKING	ROOF VENTS
% EAVE AREA (m²)	% ROOF AREA (m²)	3-VENT 4-VENT 49 m²
60 1008.0	40 672.0	101 80 14
56.7 952.6	43.3 72.4	101 76 15
53.3 895.4	46.7 784.6	95 71 16
50 840.0	50 840.0	89 67 11

11-07-14 5-2005  
EAVE BLOCKING  
3-VENT BLOCK (3 1/2" x 4" MIN. HOLES 19.5" IN EA)  
4-VENT BLOCK (4 1/2" x 6" MIN. HOLES 27.6" IN EA)

PER 2004IRC, PROVIDED THE MIN. NET FREE VENTILATING AREA SHALL BE 1/200 OF THE AREA OF THE VENTED SPACE EXCEPT, THE MIN. NET FREE VENTILATING AREA SHALL BE 1/200 OF THE VENTED AREA OF THE VENTED SPACE PROVIDED THE FOLLOWING CONDITIONS ARE MET:  
1. NO OTHER VENT IS PROVIDED ON THE GABLE-IN-WINTER SIDE OF THE CEILING.  
2. THE VENT IS LOCATED ON THE GABLE-IN-WINTER SIDE OF THE CEILING.  
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2. THE CONTRACTOR IS RESPONSIBLE TO CHECK THE PLANS AND TO DETERMINE IF THE DESIGN OF ANY ERROR OR OMISSIONS PRIOR TO THE START OF CONSTRUCTION. OWNER/CONTRACTOR SHALL VERIFY WITH LOCAL BLDG. DEPT. WHICH CLIMATE ZONE THE PROJECT WILL BE BUILT IN.

3. WRITTEN DIMS. SHALL HAVE PRECEDENCE OVER SCALED DIMS. DO NOT SCALE THE DIMS.

4. DESIGN LOADS: (IN PSF)

	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902



• FRAMING CLIP SPACING SCHEDULE O.C. •				
LTPF, A35: 8d COMMON X 1 1/2" LONG NAILS. LS50, L50: 10d COMMON X 3" LONG NAILS.				
SHEAR WALL FRAMING CLIP OPTIONS				
MARK	LTP4	A35	LS50	L50
9	18"	20"	27"	20"
10	14"	15"	20"	15"
11	8"	9"	12"	8"
12	5.5"	6"	8"	6"
13	10"	11"	14"	10"
14	8"	8"	11	8"
15	6.5"	7"	9"	7"

\*SPACING OF THESE CLIPS IS REQUIRED ON BOTH SIDES OF SHEATHING.

## GENERAL NOTES

- (1) All fasteners exposed to weather shall be galvanized.
- (2) All exterior walls shall be built to "S" shearwall requirements as a minimum.
- (3) Sheathing on shearwalls shall not be interrupted by any wall butting into shearwall.
- (4) Builder to verify installation requirements for all hardware connections per manufacturer.
- (5) All floor system lumber to be installed with maximum moisture content of 16%.
- (6) All hardware & fasteners in contact with P.T. lumber shall be stainless steel, Z-max or hot dip galvanized.
- (7) Nail dimensions:  
8d common = 0.131x2.5  
10d common = 0.148x2.5  
16d sinker = 0.148x3.25  
16d common = 0.162x3.5

## • SHEAR WALL SCHEDULE •

SEISMIC ZONE D

MARK	PANEL THICKNESS	FASTENERS (3),(5),(6),(7)		SOLE I.D.	SILL PLATE SIZE (14)	AB SPACING (2)	NOTES	ALLOW LOAD WIND SEIS.
		TYPE	● PANEL EDGES					
5	7/16" or 15/32"	0.131 Ⓛ x 2 1/2"	6" O.C.	6" O.C.	2X	48" O.C.		348 260
6	7/16" or 15/32"	0.131 Ⓛ x 2 1/2"	4" O.C.	4" O.C.	2X	32" O.C.		523 380
7	7/16" or 15/32"	0.131 Ⓛ x 2 1/2"	3" O.C.	3" O.C.	2X	26" O.C. see (15)		679 490
8	7/16" or 15/32"	0.131 Ⓛ x 2 1/2"	2" O.C.	2" O.C.	2X	22" O.C. see (4), (15)		802 640
9	7/16" or 15/32" EA. SIDE	0.131 Ⓛ x 2 1/2"	3" O.C.	3" O.C.	3X	20" O.C. see (4), (15), (16)		1123 980
E	7/16" or 15/32" EA. SIDE	0.131 Ⓛ x 2 1/2"	2" O.C.	2.5" O.C.	3X	16" O.C. see (4), (8), (15), (16)		1404 1280
F	15/32" EA. SIDE	0.148 Ⓛ x 3"	2" O.C.	2" O.C.	3X	13" O.C. see (4), (8), (15), (16)		1728 1540

## NOTES

- (1) 2X D.F. studs max. 16" O.C.
- (2) Anchors to be  $5/8" \times 1/2" \times 1/2" \times 1/2"$  j-bolts w/min. 7" embedment into concrete. Secure with BPS  $5/8" \times 6$  or BPS  $5/8" \times 6$ . BPS  $5/8" \times 6$  requires an additional std. cut washer.
- (3) Intermediate studs nailed ● 12" O.C.
- (4) Framing ● adjoining panel to be 3x nominal or wider, w/ nailing staggered.
- (5) 0.131" x 2 1/2" F. RH P-nail may be replaced with 0.131" x 2 1/2" common nail or 0.131" x 2 1/2" hot dip or tumbled galvanized box nail.
- (6) 0.148" x 3" F. RH P-nail may be replaced with 0.148" x 3" common nail or 0.128" x 3" hot dip or tumbled galvanized box nail.
- (7) "F. RH. P-nail" - designates a full round-head power nail.
- (8) Minimum 4X6 post ● each end.
- (9) Holdowns occur ● each end of each shearwall & fasten to min. double 2X studs. Wall shtg. shall be edge nailed to each holdown stud.
- (14) 3X plate required where shown on foundation plan.
- (15) USE 2 ROWS FOR SILL PLATE NAILING W/ 1 1/2" THICK RIM JOIST OR BLOCKING
- (16) SILL PLATE NAILING PER EACH SIDE OF SHEATHING.

1/17/20

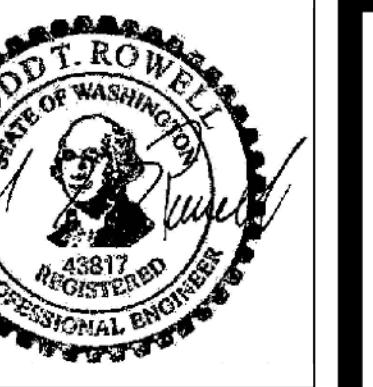
## HOLDOWN SCHEDULE

MARK (9)	SIMPSON MODEL#	FASTENERS	CAPACITY (LBS.)	NOTES
1	No holdown required	Connect btm. plate to floor joist w/ 16d ● 4" O.C.	500	
2	CMST12 x 36" Long	(7) 16d common nails at each end.	1,740	
3	CMST12 x 48" Long	(16) 16d common nails at each end.	3,950	
4	CMST12 x 60" Long	(22) 16d common nails at each end.	5,470	
5	CMST12 x 72" Long	(20) 16d common nails at each end.	7,220	
6	CMST12 x 90" Long	(39) 16d common nails at each end.	9,710	
7	HTTS	(26) 16d sinkers SDS 24	5,090	
8	HDU-8	(20) SDS 1" x 2 1/2" screws SDS 24 EMBED 18" MIN.	7,855	Min. 4X6 OR (3) 2x6 STITCHED together w/ 16d sinker ● 6" O.C. MIDWALL AND CORNER ONLY
9	HDU-11	(30) SDS 1" x 2 1/2" screws SDS 24 MIN.	9,335	4X6 post req'd.
10	HDU-14	(36) SDS 1" x 2 1/2" screws SDS 24 MIN. 11" EMBED INTO FOOTING MIN.	14,445	6X6 post req'd. Heavy hex nut req'd. 36X36X4" deep min. ftg. req'd. ● ea. anchor bolt.

## LEGEND

- APPROX. HOLDOWN LOCATIONS
- SHED WALL LOCATIONS
- 3X 3X SILL PLATE REQUIRED
- 2X2X DBL. 2X SILL PLATE REQUIRED
- SHED WALL LINE
- LOAD FROM ABOVE
- DOUBLE 2x6 U.N.O.

WIND & SEISMIC ANALYSIS  
2018 IBC  
ROWELL  
EXP. :  
SER. CAT. :  
ZIP. :  
98053

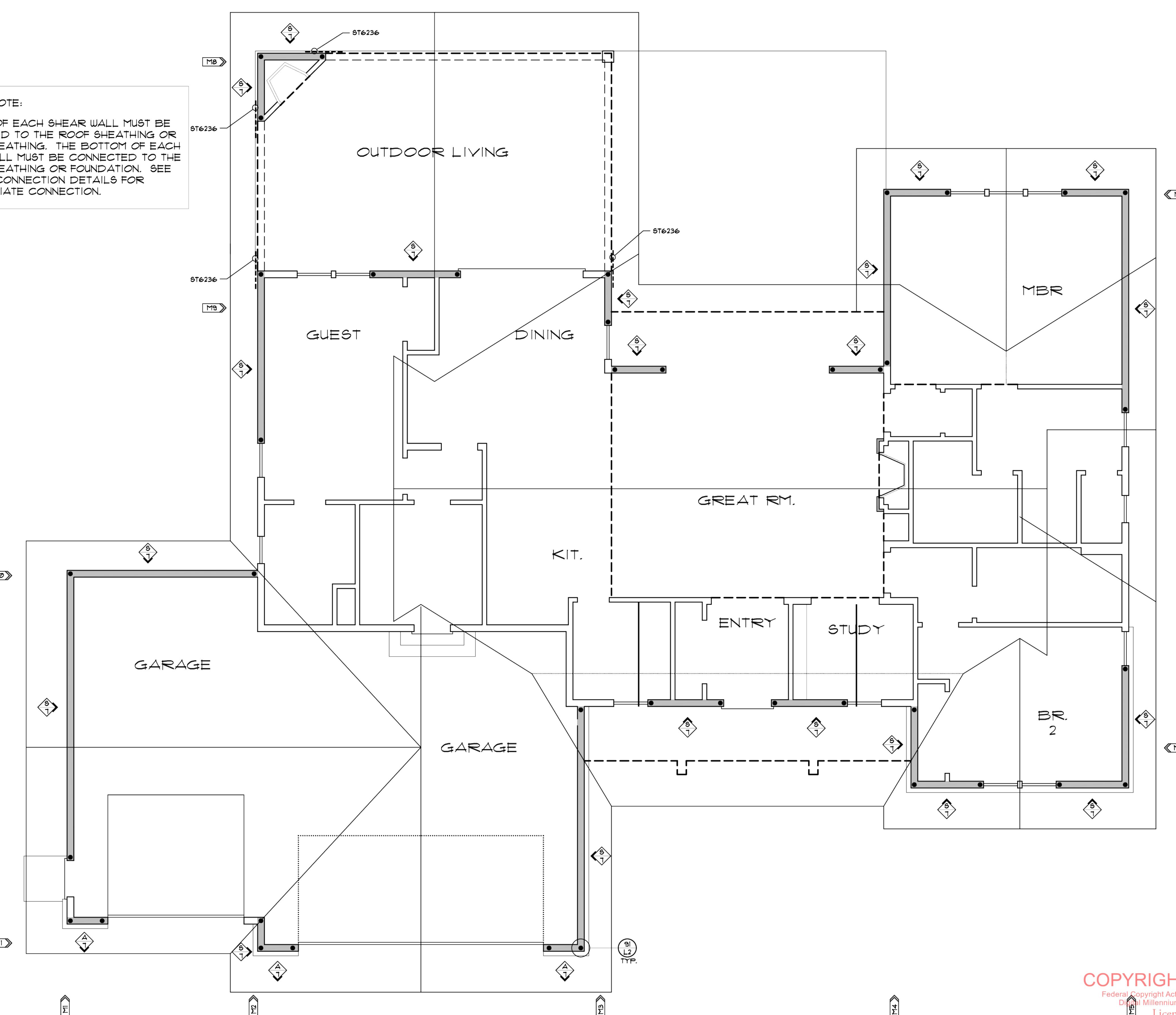


ROWELL ENGINEERING, LLC  
STRUCTURAL ENGINEERING  
10570 SE WASHINGTON STREET, STE. 200  
PORTLAND, OR 97216

PROJECT: 220065  
DRAWN: 03/28/22 JLY

RESIDENCE BY:  
941 EAST MANZANITA DRIVE  
UNION, WASHINGTON 98592  
25# SNOW LOAD

MAIN FLOOR 1170  
AREA L1 110C



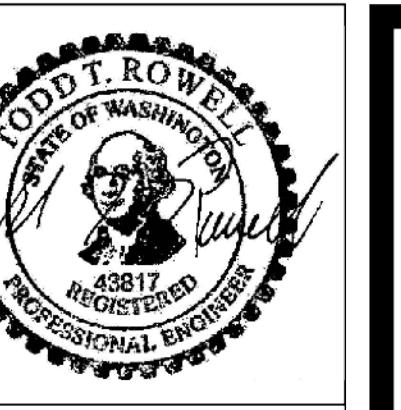
## MAIN FLOOR PLAN

SCALE 1/4" = 1'-0"

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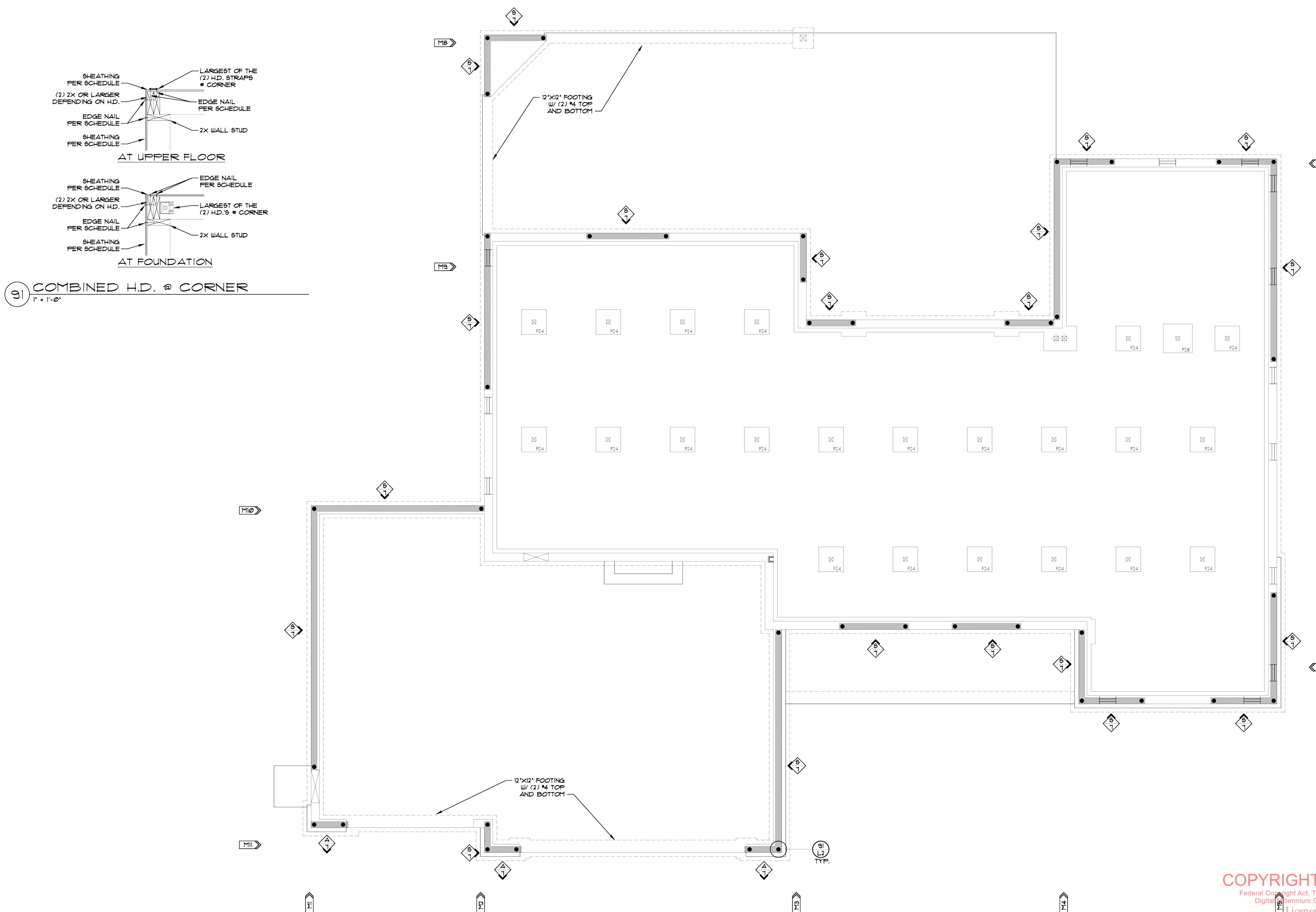
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**FOUNDATION PLAN**

SCALE 1/4" = 1'-0"

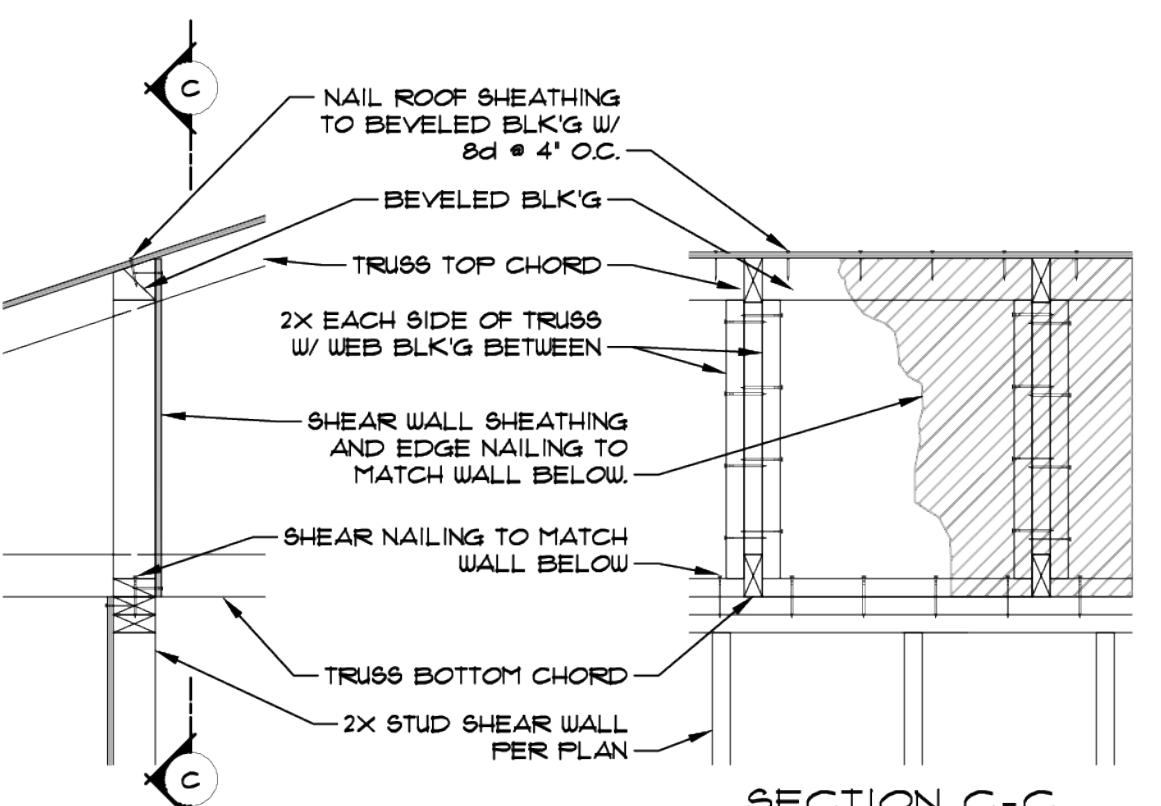




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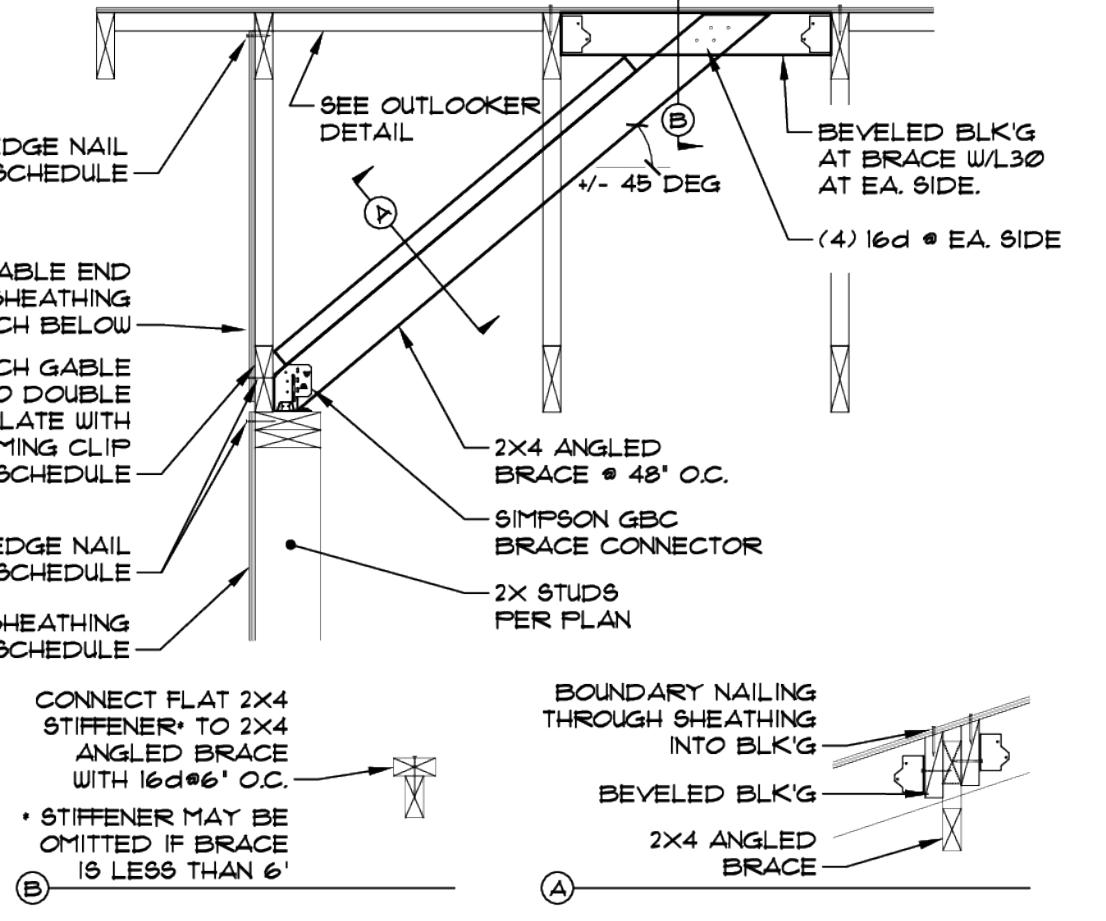
INTERIOR SHEAR WALL TO ROOF  
PERPENDICULAR ROOF TRUSSES  
3/4" = 1'-0"



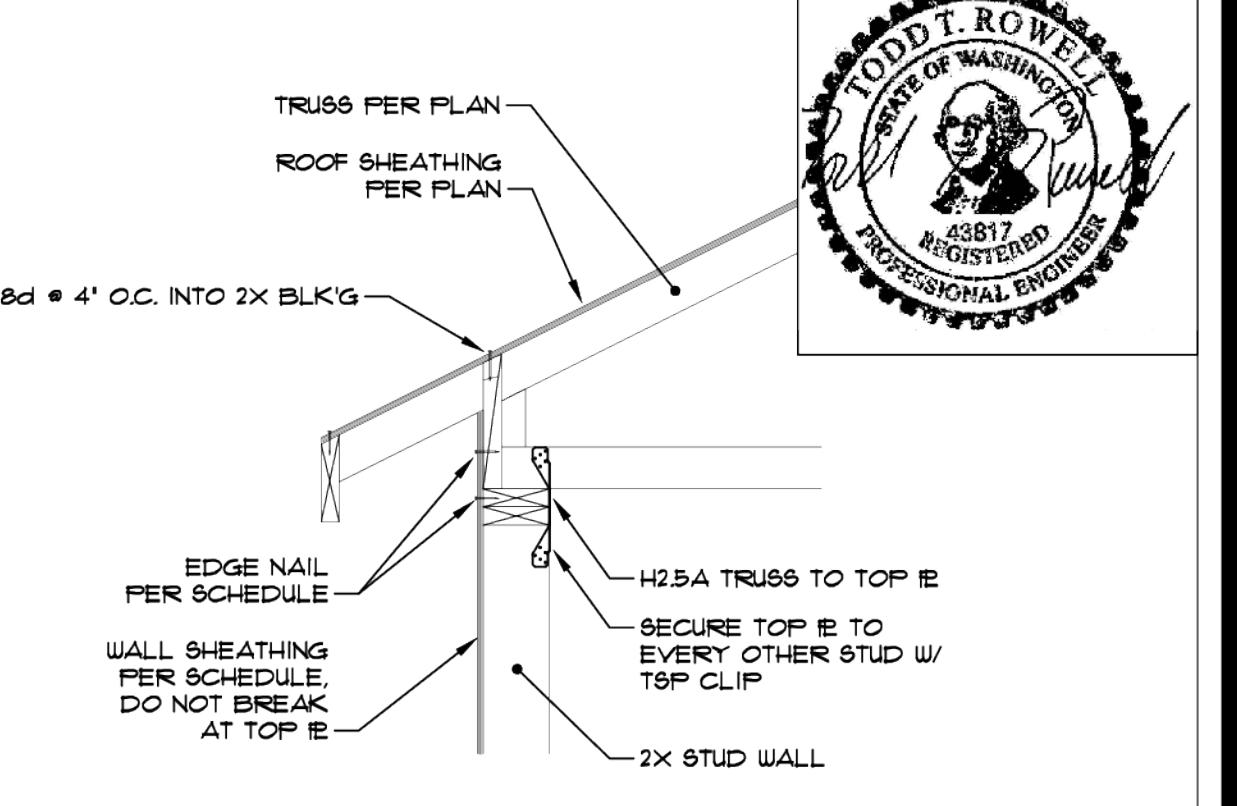
INTERIOR SHEAR WALL EXTENSION  
PARALLEL TO ROOF TRUSSES  
3/4" = 1'-0"



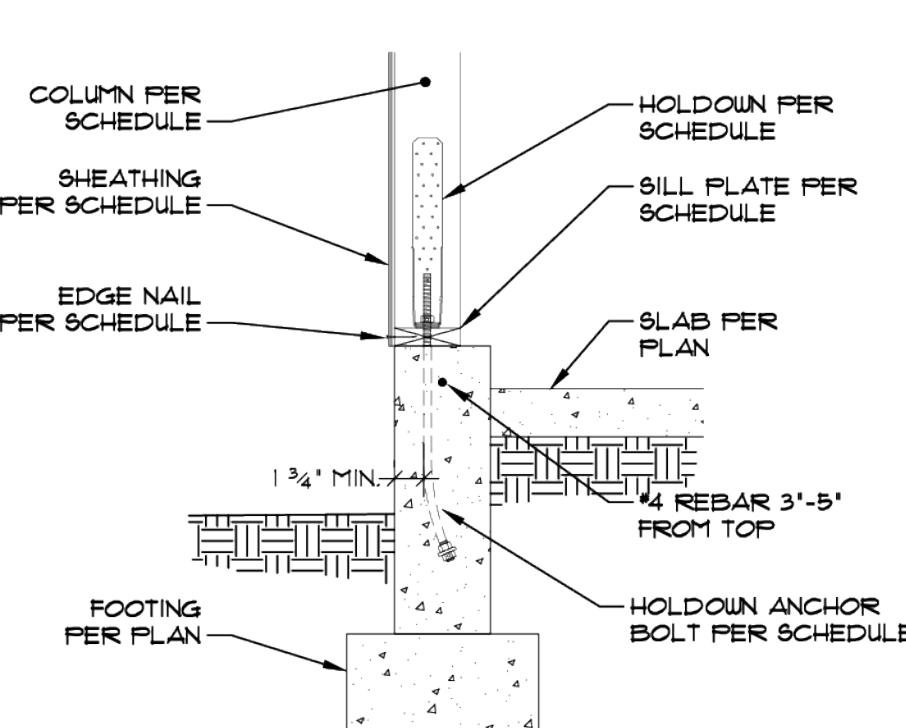
OUTLOOKER DETAIL  
SCALE: 3/4" = 1'-0"



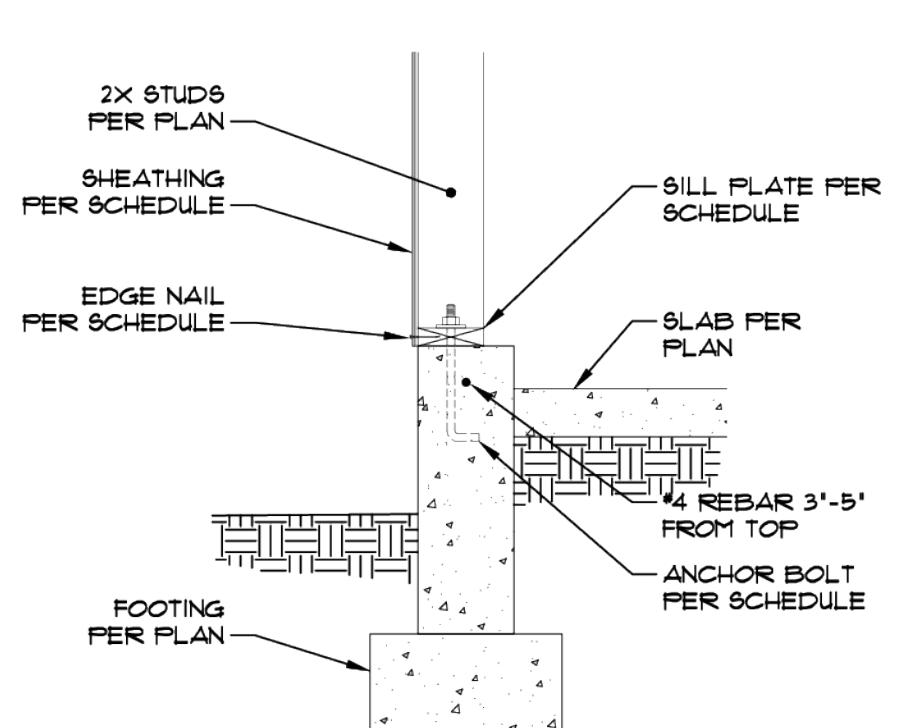
GABLE END TRUSS  
3/4" = 1'-0"



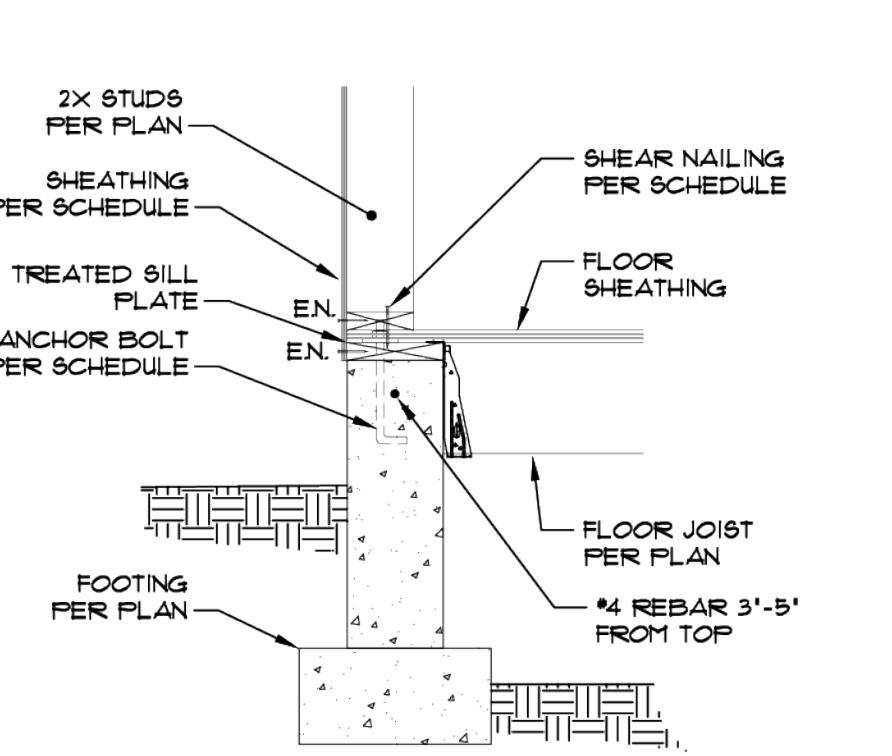
RAISED HEEL TRUSS AT EAVE  
3/4" = 1'-0"



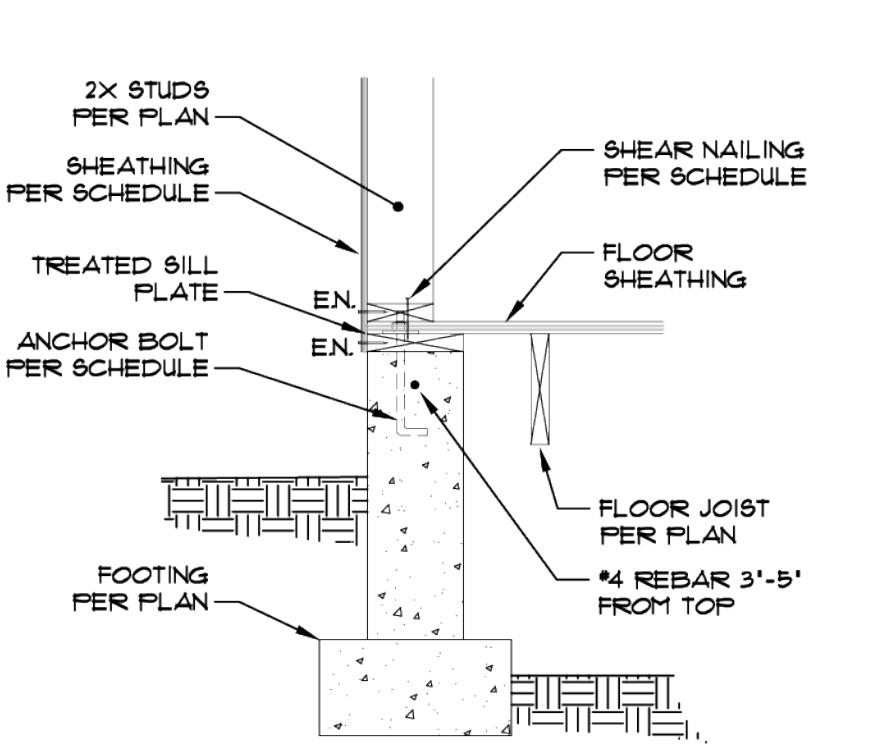
GARAGE SLAB  
SB ANCHOR BOLT  
3/4" = 1'-0"



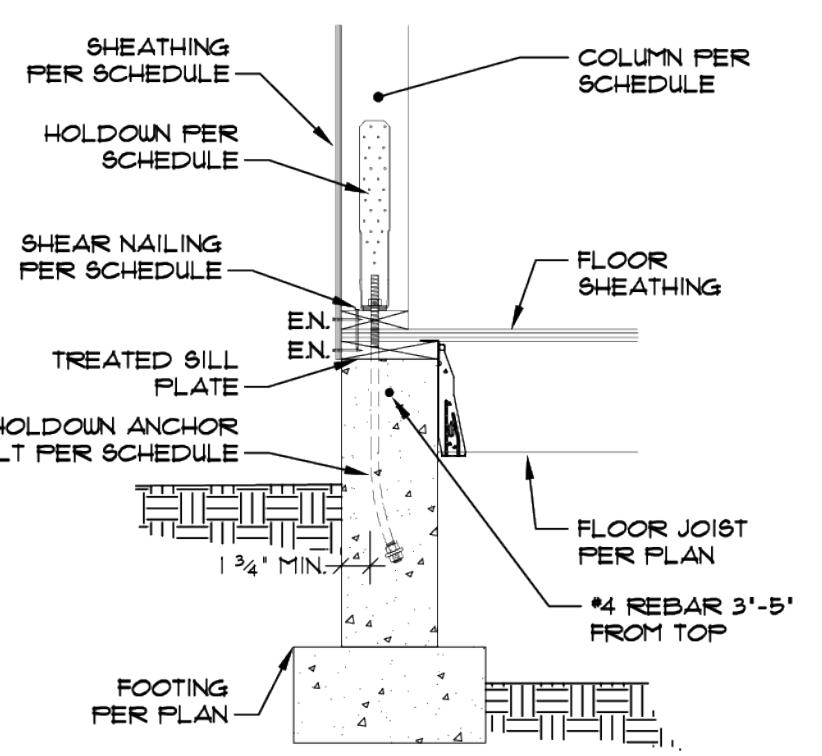
GARAGE SLAB SHEAR WALL  
3/4" = 1'-0"



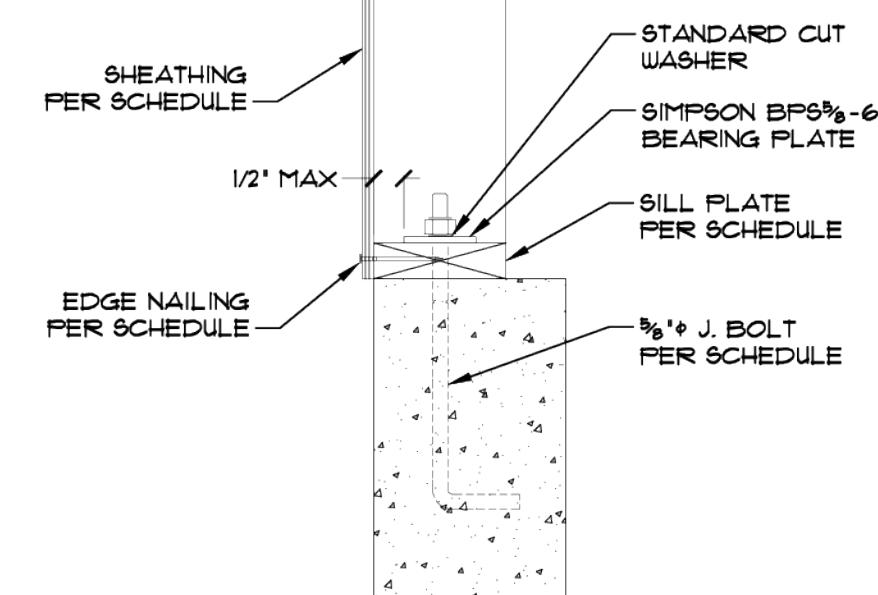
EXTERIOR SHEAR WALL  
PERPENDICULAR FLOOR JOISTS  
3/4" = 1'-0"



EXTERIOR SHEAR WALL  
PARALLEL FLOOR JOISTS  
3/4" = 1'-0"



EXTERIOR SB ANCHOR BOLT  
3/4" = 1'-0"



STANDARD A.B. DETAIL  
1 1/2" = 1'-0"