

**ABBREVIATIONS** 

- BWL.
  BWP.
  C.O.
  C.J.
  CLOS.
  COL.
  COMP.
  CONT.
  C.M.A.

  - BRACED WALL LINE BRACED WALL PANEL CASED OPENING CEILING JOIST COLUMN
  - COMPOSITION CONCRETE
- C.M.U. CONTINUOUS CARBON MONOXIDE ALARM
- DIAMETER DOUBLE HUNG CONCRETE MASONRY UNIT
- EX. **EXHAUST** DOWN DOUBLE JOIST

APPROVED

04/20/2020

DIA.

- G.F.I. EXT. FL.J. FTG. EXTERIOR GROUND FAULT INTERRUPTER **FOOTING** FLOOR JOIST
- HOSE BIB LAMINATED VENEER LUMBER

H.B.

- <u>×</u>.0. Έ MASONRY MASONRY OPENING
- MAX. MAS. MAXIMUM
- ĭ Z ¥Ţ. M.C. METAL MINIMUM MEDICINE CABINET
- PERF. OSB 0.C. ON CENTER PERFORATED ORIENTED STRAND BOARD
- REINF REC. REINFORCED
- SEC. S.D. SCR. SMOKE DETECTOR SECOND SCREENED
- SHWR. S.Y.P. SOUTHERN YELLOW SHOWER
- S.P.F. SPRUCE/PINE/FIR
- ₹P. SUSP. TYPICAL SUSPENDED
- U.O.N. UNLESS OTHERWISE
- ¥ H WASH. WASHER NOTED
- WDW. HT. ₩.W.M. WINDOW HEIGHT WELDED WIRE MESH

. . .

WEATHER PROOF WATER HEATER

WOOD

## **SYMBOLS**

- **SWITCH** HOSE BIB
- $\diamondsuit$ 3-WAY SWITCH
- LIGHT FIXTURE EXHAUST FAN & LIGHT
- SMOKE DETECTOR
- Δ
- SHOWER HEAD
- CONVENIENCE OUTLET TELEPHONE JACK

Φ

 $\Phi$ GROUND FAULT INTERRUPTER 220 VOLT OUTLET

CEILING FAN

CARBON MONOXIDE ALARM

## GENERAL **NOTES** AND **SPECIFICATIONS**

## COPYRIGHT

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## ORIGINAL SEE ATTACHED CONSTRUCTION LICENSE FOR INVOICE NUMBER 12393. PURCHASE AGREEMENT

THIS PLAN HAS BEEN DRAWN TO CONFORM TO THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION (2015 INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, CURRENT EDITION) WITH AMENDMENTS UNLESS OTHERWISE NOTED. (SEE ATTACHMENTS) CODE

BUILDING

**INFORMATION** 

### PRIOR 70 CONSTRUCTION

THE CONTRACTOR SHALL REVIEW THE PLAN(S) FOR THIS PARTICULAR BUILDING PROJECT TO ENSURE COMPLIANCE WITH ALL NATIONAL, STATE AND LOCAL CODES, CLIMATIC GEOGRAPHIC DESIGN CRITERIA, AND ANY OTHER PROVISIONS THAT MAY BE REQUIRED BY VA/FHA/RD.

THE CONTRACTOR SHALL VERIFY PLAN DIMENSIONS, STRUCTURAL COMPONENTS, AND GENERAL SPECIFICATIONS CONTAINED IN THIS SET OF PLANS AND REPORT ANY DISCREPANCIES TO STANDARD HOMES PLAN SERVICE, INC. FOR JUSTIFICATION OR CORRECTION BEFORE PROCEEDING WITH WORK ON HOUSE.

THE CONTRACTOR SHALL DETERMINE ROUGH OPENING SIZES FOR ALL BUILT—IN EQUIPMENT AND/OR FACILITIES AND ADJUST PLAN DIMENSIONS AS REQUIRED.

DO NOT SCALE FROM BLUEPRINTS. REFER TO THE DIMENSIONS FOR ACTUAL MEASUREMENTS.

IT SHALL BE THE RESPONSIBILITY OF THE OWNER/BUILDER TO PROVIDE FOR THE SERVICES OF A PROFESSIONAL ENGINEER IF REQUIRED BY THE BUILDING CODE OFFICIAL.

## SHIPPING DATE

STAMP MUST APPEAR IN RED. PLANS FOR WHICH A BUILDING PERMIT HAS NOT BEEN OBTAINED ONE YEAR FROM THE ABOVE DATE IS SUBJECT TO REVIEW BY STANDARD HOMES PLAN SERVICE, INC. A FEE MAY BE CHARGED FOR THIS SERVICE.

**EXCAVATION** 

EXCAVATE TO UNDISTURBED SOIL. BOTTOM OF FOOTING SHALL EXTEND BELOW LOCAL FROST LINE AND TO A MINIMUM DEPTH OF 12" BELOW ADJACENT GRADE. (PRESUMED 2000 PSF SOIL BEARING CAPACITY).

EXPANSIVE, COMPRESSIVE OR SHIFTING SOILS SHALL BE REMOVED TO A DEPTH AND WIDTH SUFFICIENT TO ASSUME A STABLE MOISTURE CONTENT IN EACH ACTIVE ZONE.

## FOUNDATION

PROVIDE 1/2" DIA. STEEL ANCHOR BOLTS 6'-0" O.C., 1'-0" MAX. FROM CORNERS AND 1'-0" MAX. FROM ENDS OF EACH PLATE SECTION, WITH 7" MIN. EMBEDMENT.

PROVIDE FOUNDATION SLOPE TO OUTLET AS WATERPROOFING AND DRAIN WITH POSITIVE REQUIRED BY SITE CONDITIONS.

SLOPE GRADE AWAY F WITHIN THE FIRST 10 FROM FOUNDATION WALLS 6" MINIMUM ) FEET.

PROVIDE PRESSURE TREATED LUMBER FOR SILLS, PLATES, BANDS AND ANY LUMBER IN CONTACT WITH MASONRY.

PROVIDE APPROVED AND BONDED CHEMICAL SOIL TREATMENT AGAINST FUNGUS, TERMITES AND OTHER HARMFUL INSECTS.

## CRAWL SPACE

ALL GIRDER JOINTS AND ENDS OF GIRDERS SHALL REST ON SOLID BEARINGS. FILL CORES OF HOLLOW MASONRY TO FOOTING WITH CONCRETE. FILL TOP COURSE CORES OF EXTERIOR FOUNDATION WALL WITH CONCRETE.

FOOTINGS SHALL EXTEND 6" AND SHALL BE 12" THICK UNDER GIRDER PIERS.

CHIMNEY FOOTING SH AND SHALL BE AT LE ALL EXTEND 12" MINIMUM BEYOND EACH SIDE AST 12" THICK.

### BASEMENT

DOUBLE SILL AND USE LEDGER OVER ALL BASEMENT OPENINGS. ALL GIRDER JOINTS SHALL BREAK ON COLUMN CENTER LINES (STAGGERED) AND ENDS OF GIRDERS SHALL REST ON SOLID MASONRY.

ALL BASE. SASH SHALL BE 18/20 2-LT. 3'-3 7/8" X 1'-11 15/16" 3420 HB.

### FRAMING

ALL FLOOR JOISTS, CE SILLS AND BEAMS SHA UNLESS OTHERWISE IN CEILING JOISTS, RAFTERS, GIRDERS, HEADERS, SHALL BE NO. 2 SPRUCE/PINE/FIR (S.P.F.) INDICATED.

ALL LOAD BEARING WALLS SHALL BE STUD GRADE SPRUCE/PINE/FIR (S.P.F.) UNLESS OTHERWISE INDICATED.

DESIGN SPECIFICATIONS FOR LAMINATED VENEER LUMBER (LVL)

GRADE: 2950Fb-2.0E BENDING Fb: 2950 MOE: 2.0 X 10<sup>6</sup> SHEAR Fv: 290

SUPPORT FOR HEADERS:
HEADERS SHALL BE SUPPORTED ON EACH END WITH ONE OR MORE
JACK STUDS OR WITH APPROVED FRAMING ANCHORS IN ACCORDANCE
WITH BUILDING CODE (SEE PLAN). THE FULL—HEIGHT STUD ADJACENT
TO EACH END OF THE HEADER SHALL BE END NAILED TO EACH END
OF THE HEADER WITH FOUR—16D NAILS. SEE TABLE BELOW.

MINIMUM NUMBER OF WALLS: FULL HEIGHT STUDS AT EACH END OF HEADERS

16 印.	12 FT.	8 FT.	<b>4</b> FT.	3 FEET OR LESS	(FEEI)	HEADER SPAN
6	5	3	2	1	16	MAXIMUM STUD :
4	3	2	<u> </u>	1	24	MAXIMUM STUD SPACING (INCHES

## CLIMATIC AND GEDESIGN CRITERIA GEOGRAPHICAL

ROOF LIVE LOAD (POUNDS PER SQUARE FOOT): 20 PSF ULTIMATE DESIGN WIND SPEED (MILES PER HOUR): 120 NOMINAL DESIGN WIND SPEED: 93 MPH EXPOSURE CATEGORY "B" UNLESS OTHERWISE NOTED WINDOW DESIGN PRESSURE RATING: DP 25 COMPONENT AND CLADDING LOADS FOR A BUILDING WITH A MEAN ROOF HEIGHT OF 30 FEET OR LESS: 120 MPH

DDESSLIDE 70NE		ULTIMATE DESIGN V	ULTIMATE DESIGN WIND SPEED (MPH)	
FINESSOINE ZOINE	115	120	130	140
ZONE 1	13.1, -14.0	14.2, -15.0	16.7, -18.0	19.4, -21.0
ZONE 2	13.1, -16.0	14.2, -18.0	16.7, -21.0	19.4, -24.0
ZONE 3	13.1, -16.0	14.2, -18.0	16.7, -21.0	19.4, -24.0
ZONE 4	14.3, -15.0	15.5, -16.0	18.2, -19.0	21.2, -22.0
ZONE 5	14.3, -19.0	15.5, -20.0	18.2, -24.0	21.2, -28.0

ASSUMED MEAN ROOF HEIGHT: 16'-7"

SEISMIC CONDITION BY ZONE: ZONES A AND B
SUBJECT TO DAMAGE FROM WEATHERING: MODERATE
CLIMATE ZONES (UNLESS OTHERWISE NOTED): ZONES 3 AND 4
MINIMUM VALUES FOR ENERGY COMPLIANCE:
CEILING R-38; EXTERIOR WALLS R-15; FLOORS R-19
WINDOW U-FACTOR ≤ 0.35; RECOMMENDED SHGC ≤ 0.30

## MISCELLANEOUS

LOCATE ALL CONVENIENCE OUTLETS ABOVE KITCHEN BASE CABINETS 42" ABOVE FINISHED FLOOR.

# EMERGENCY EGRESS REQUIREMENTS

IT SHALL BE THE RESPONSIBILITY OF THE OWNER/BUILDER TO VERIFY CONFORMITY WITH EGRESS REQUIREMENTS BASED ON SPECIFICATIONS PROVIDED BY WINDOW MANUFACTURER.

2018 NORTH CAROLINA RESIDENTIAL CODE
THE REQUIRED EGRESS WINDOW FROM EVERY SLEEPING ROOM SHALL HAVE A SILL HEIGHT OF NOT MORE THAN 44 INCHES ABOVE FINISHED FLOOR. THE NET CLEAR OPENING SHALL NOT BE LESS THAN 4.0 SQUARE FEET WHERE THE NET CLEAR OPENING HEIGHT SHALL BE AT LEAST 22 INCHES AND THE NET CLEAR OPENING WIDTH SHALL BE AT LEAST 20 INCHES. IN ADDITION THE MINIMUM TOTAL GLASS AREA SHALL NOT BE LESS THAN 5.0 SQUARE FEET IN THE CASE OF A GROUND STORY WINDOW AND NOT LESS THAN 5.7 SQUARE FEET IN THE CASE OF A SECOND STORY WINDOW.

2015 INTERNATIONAL RESIDENTIAL CODE
THE REQUIRED EGRESS WINDOW FROM EVERY SLEEPING ROOM SHALL HAVE
A SILL HEIGHT OF NOT MORE THAN 44 INCHES ABOVE FINISHED FLOOR. ALL
EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM NET
CLEAR OPENING OF 5.7 SQUARE FEET EXCEPT GRADE FLOOR OPENINGS SHALL
HAVE A MINIMUM NET OPENING OF 5 SQUARE FEET. THE MINIMUM NET CLEAR
OPENING HEIGHT SHALL BE 24 INCHES. THE MINIMUM NET CLEAR OPENING
WIDTH SHALL BE 20 INCHES

MATL NMOHS SHEET

QF

<u>Ş</u>

Standard 7200 SUNSET F¥E Homes ROAD FI FUQUAY—VARINA,
3N PREVIEWS ONLINE AT WWW.STANI P lan N<sub>C</sub> 27526 OMES.COM 0 (919)552-5677



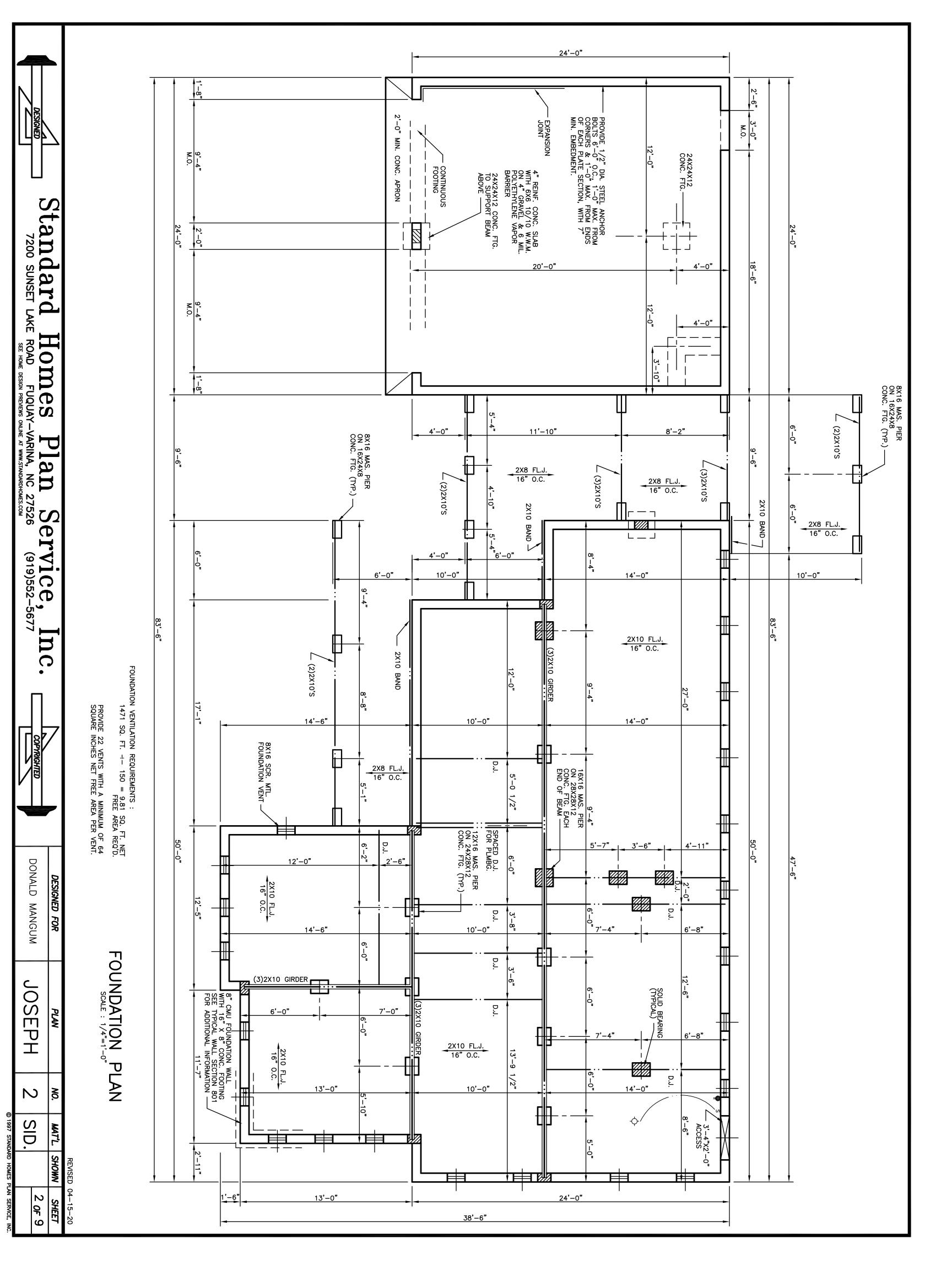
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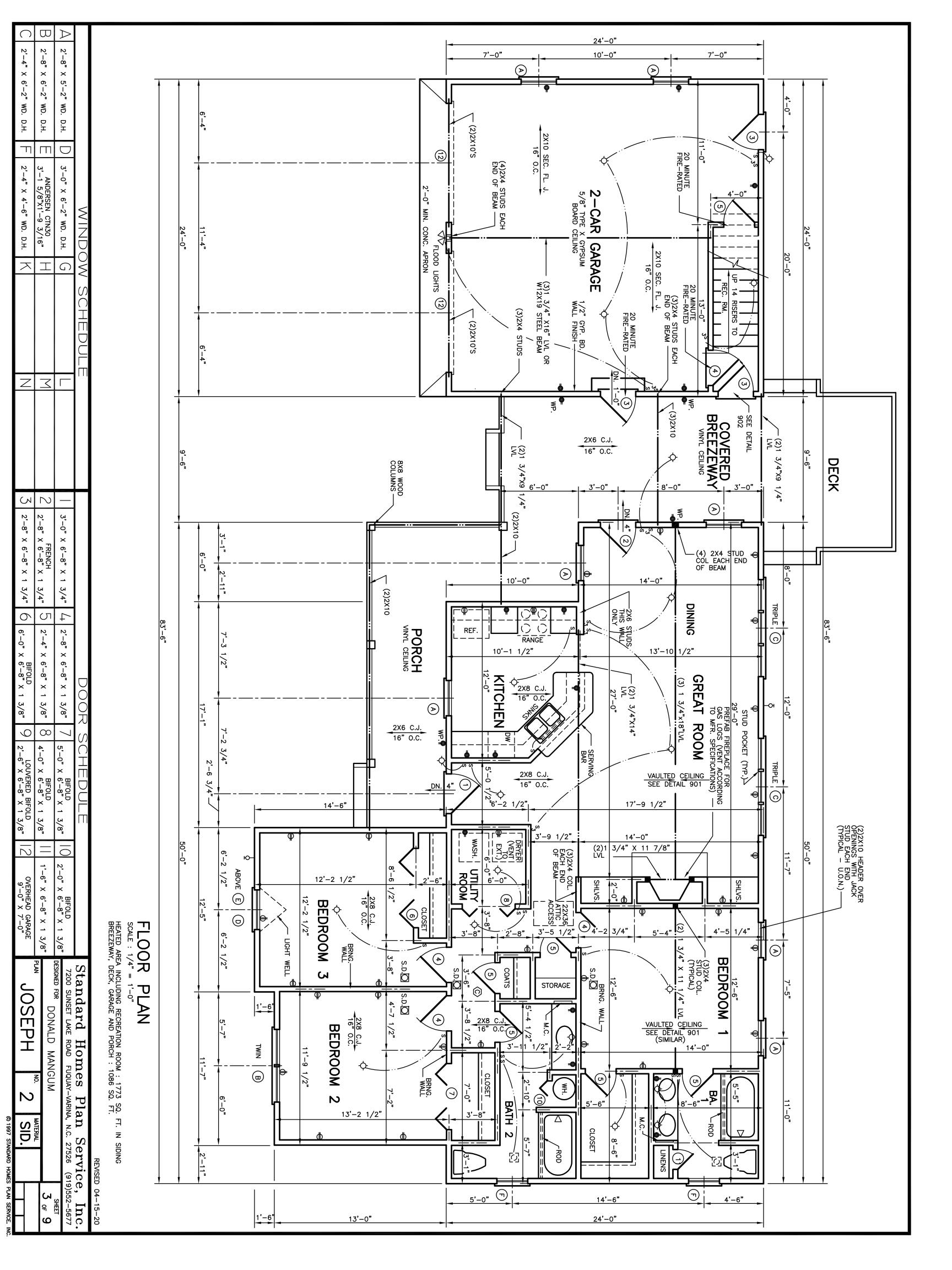


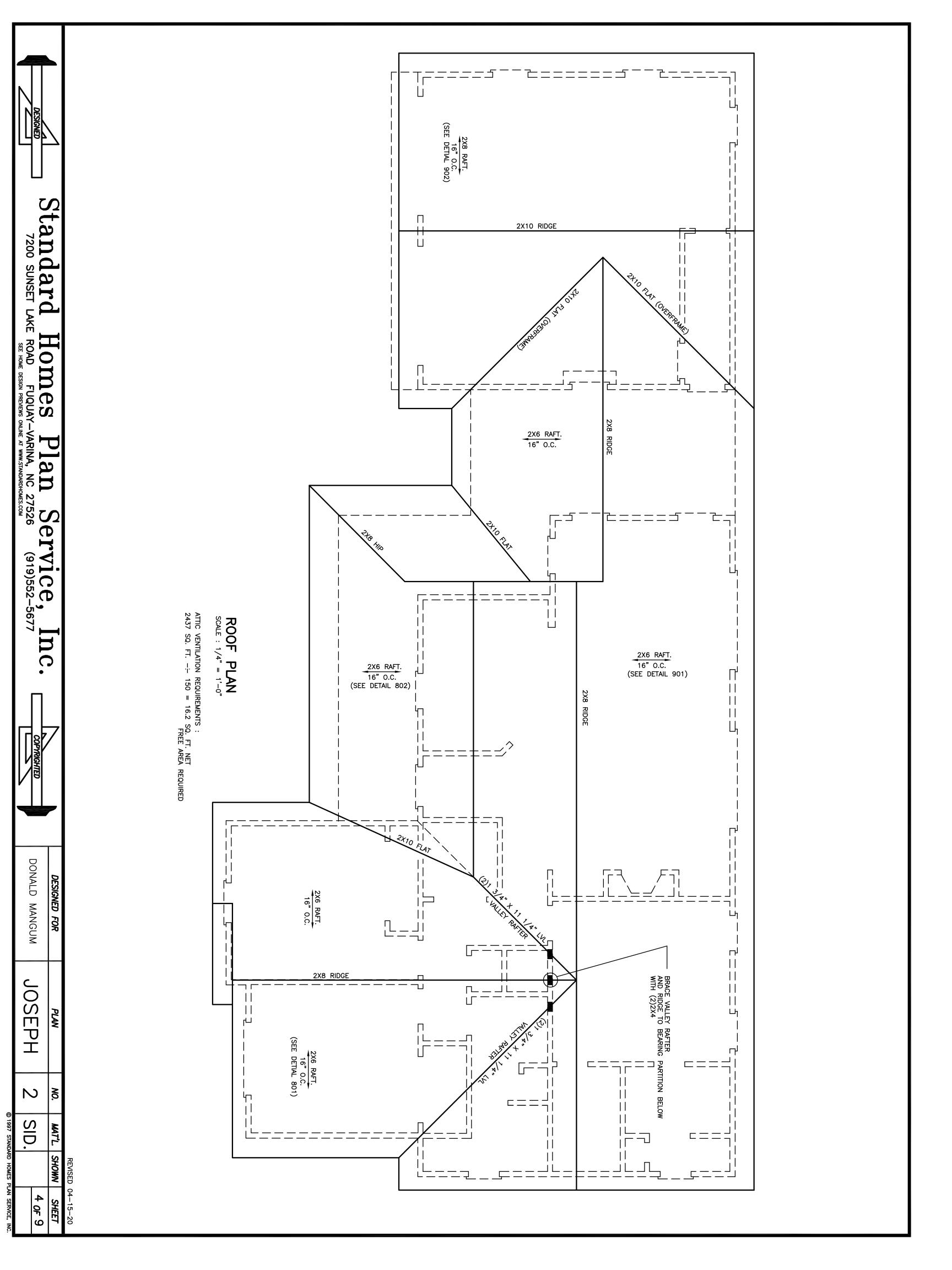


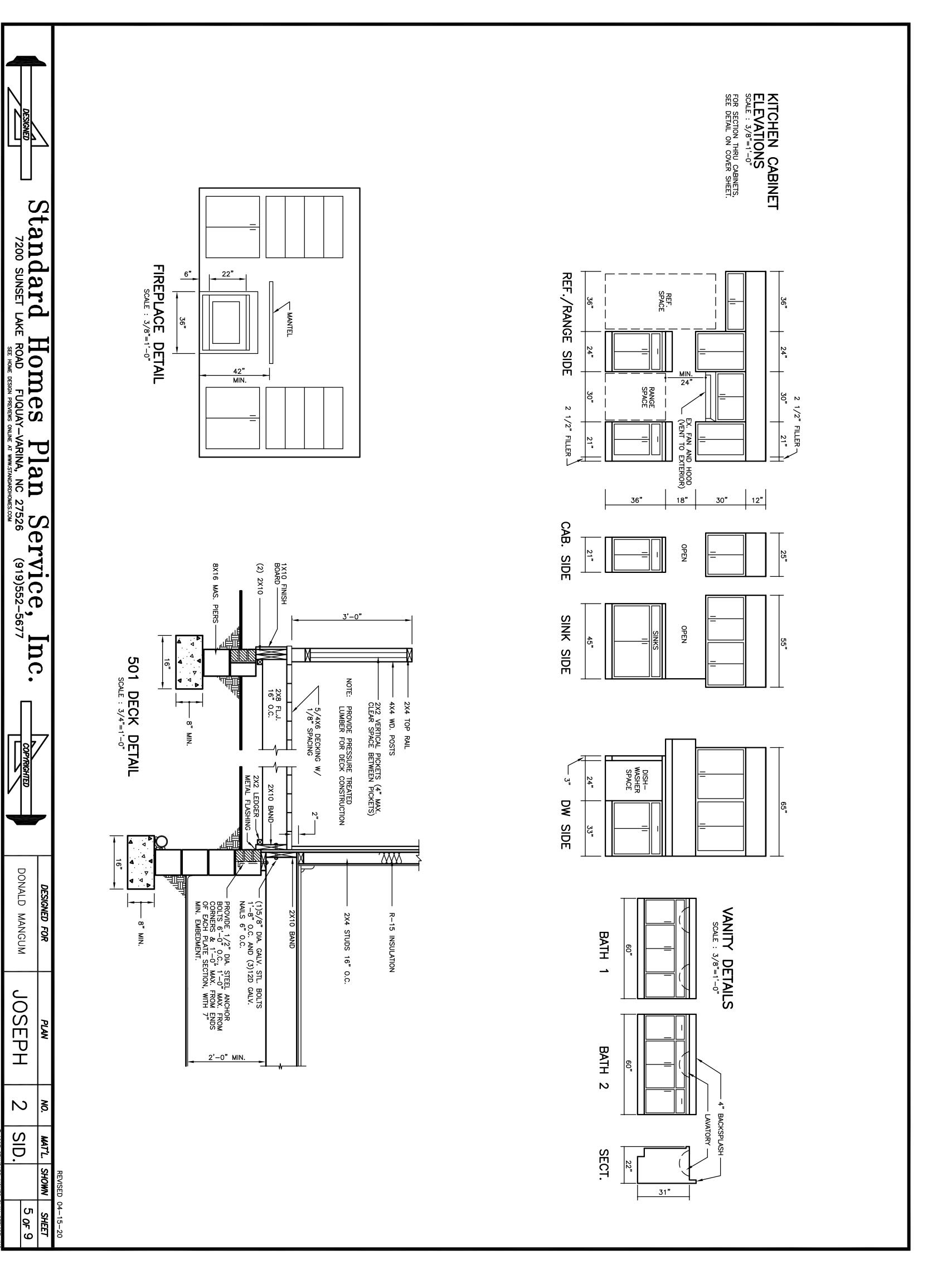
DONALD MANGUM DESIGNED FOR **JOSEPH** PLAN

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DONALD MANGUM

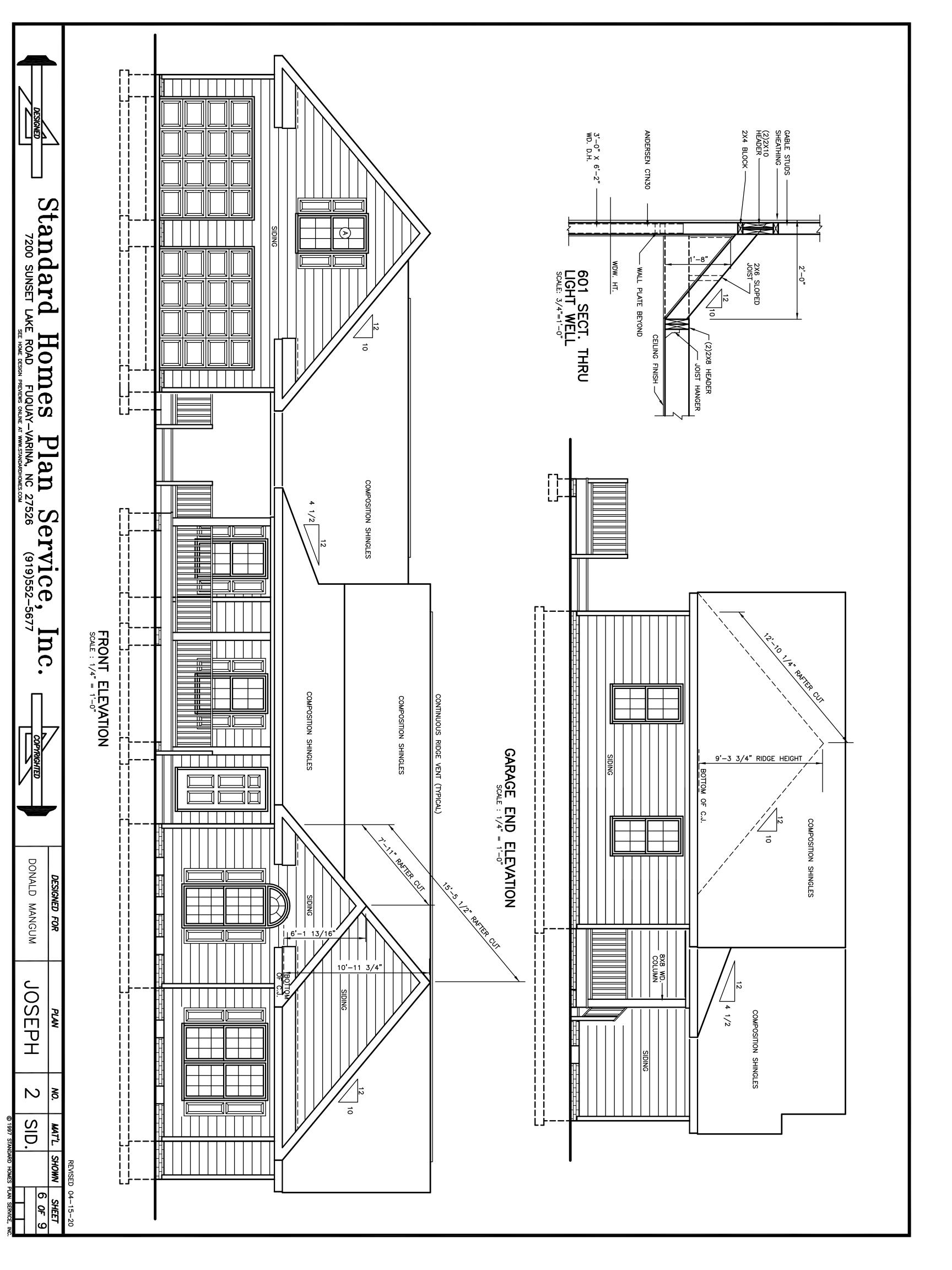
**JOSEPH** 

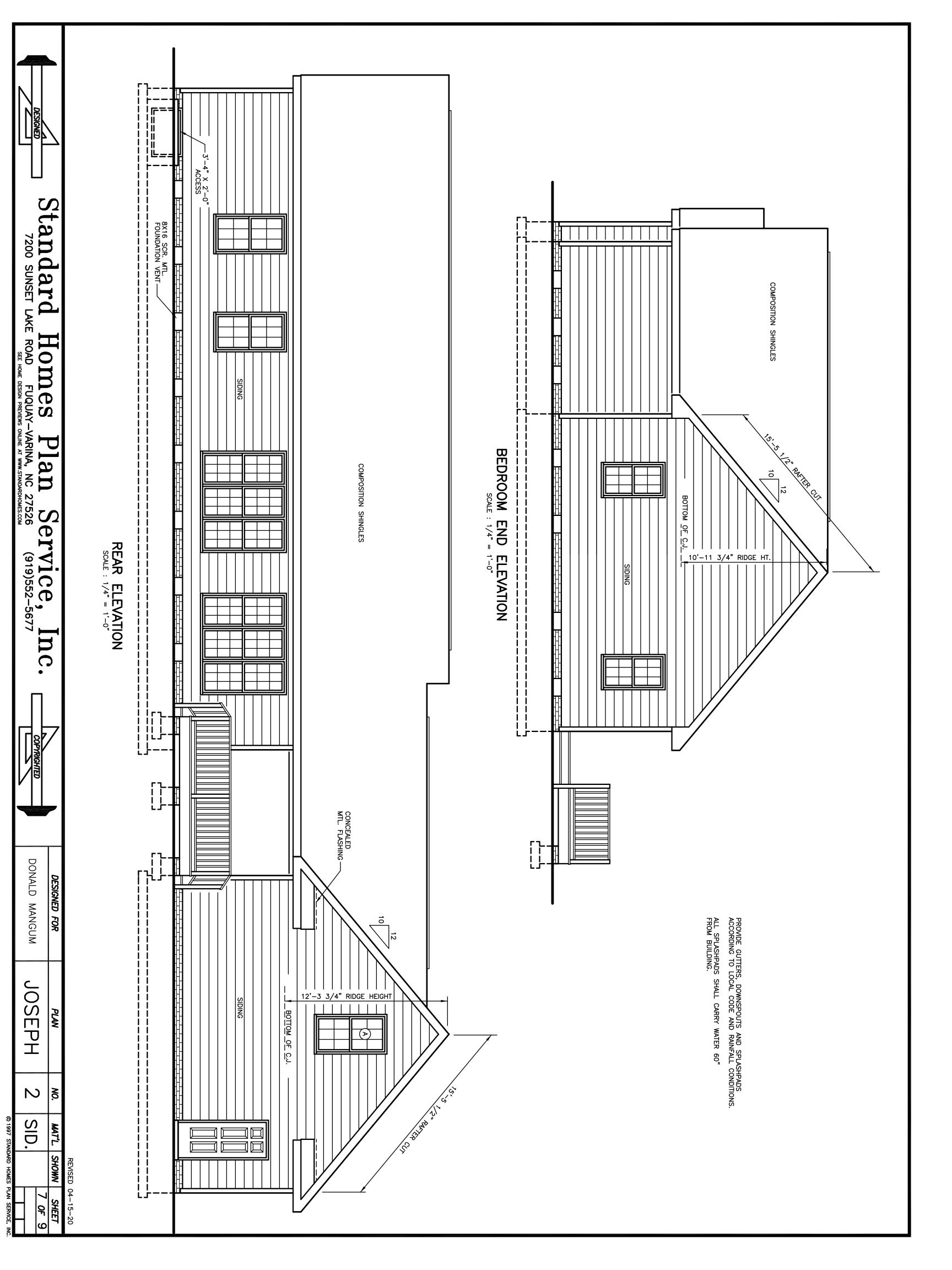
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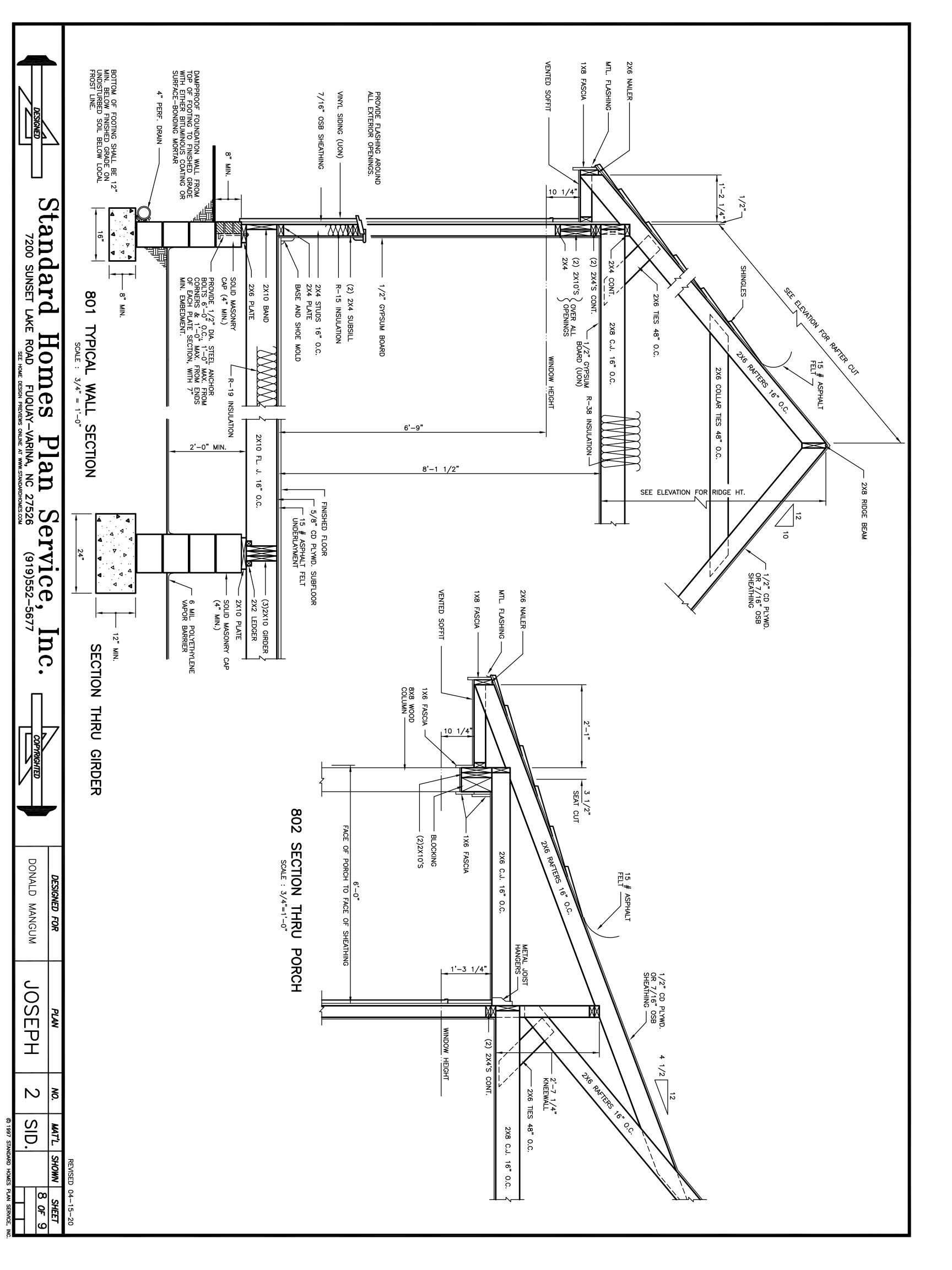
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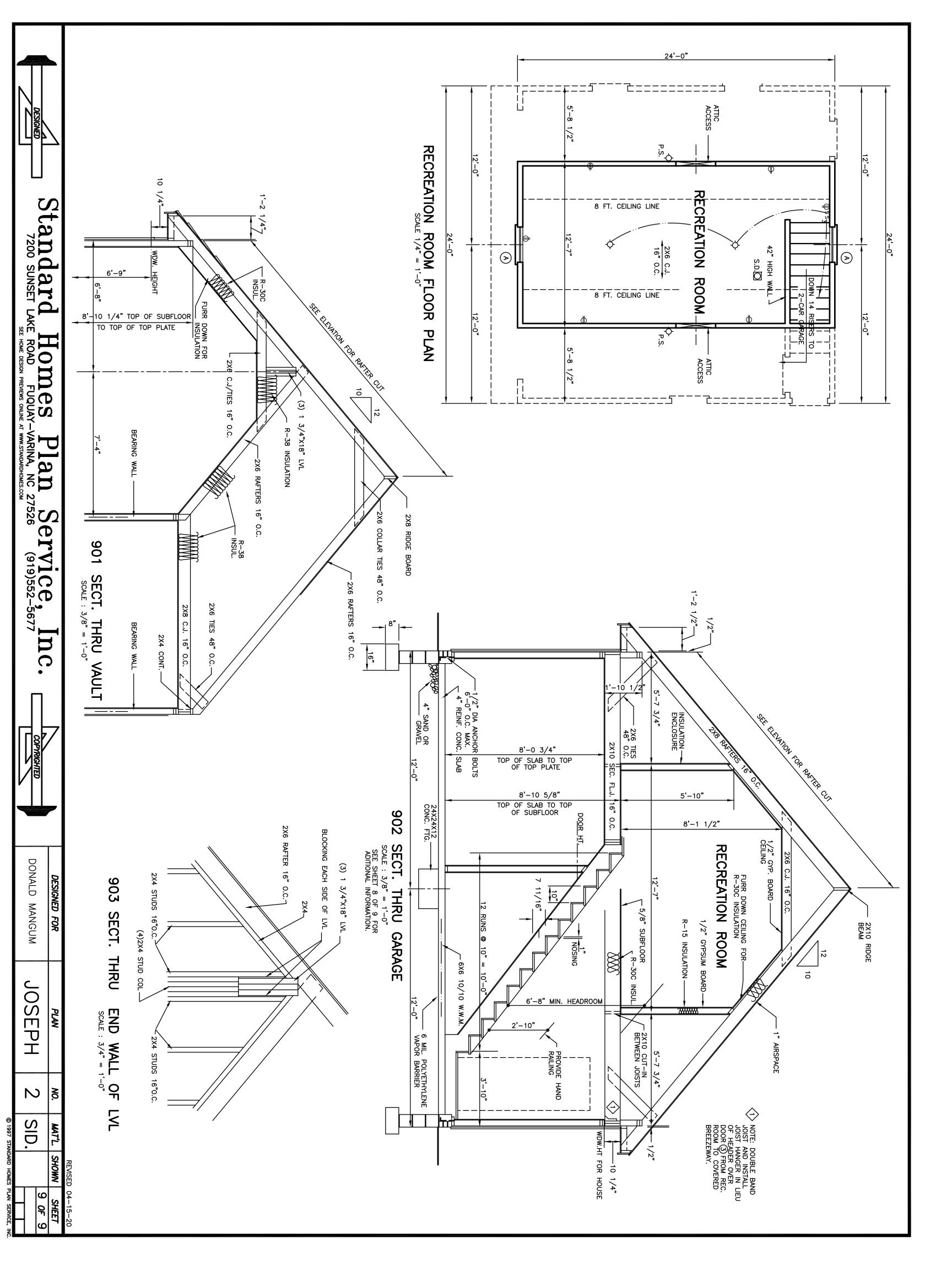
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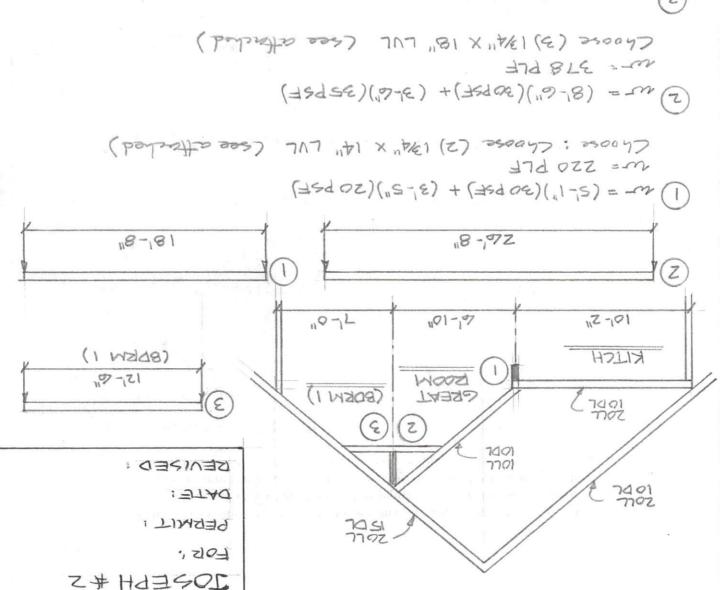






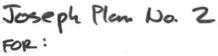


### GAMG LAM LUL BY LOUISIANA PACIFIC 2950F-2.0E



(3) 20-= 378 PLF (5) 134" X 11 N4" LVL (500 attached)

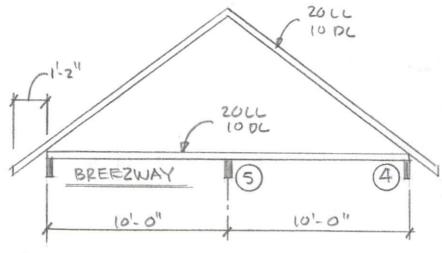
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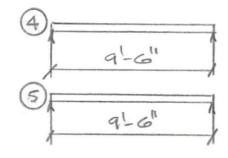


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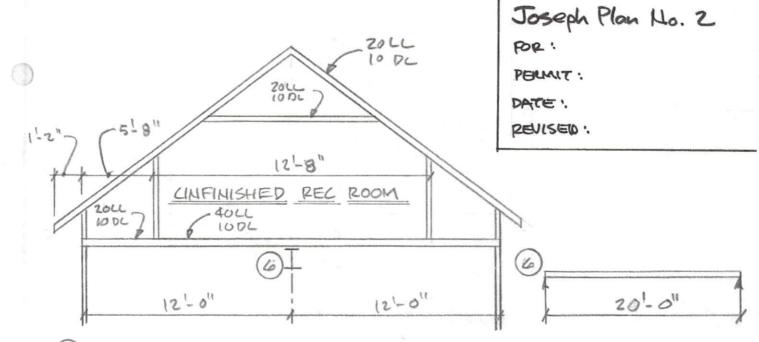
REVISED :





Choose (2) 13/4" X 9/4" LVL (see attended)

1



ω<sub>1</sub> = (6'-4") (50 PSF) + (5'-8") (30 PSF) = 487 PLF

ω<sub>1</sub> = (6'-4")(40 PSF) + (5'-8")(20 PSF) = 367 PLF

Choose (3) 134" × 16" LVL (see attached) OR

ω 12×19 Steel beam

1

### GANG-LAM LVL 2950 Fb 2.0E MAXIMUM UNIFORM LOAD (PLF)

						A	LLC	)WA	BL	EF	LOC	OR I	LOA	DS	(PI	F)	100	%				-		-
n (Ft)		13/4)			13/4)			13/4 X		1 Ply	13/4 X	111/4	1 Ply	13/4 X	111/8	1 PI	y 13/4	x 14	1 PI	y 13/4 fer To N	X 16	1 P	y 13/4 fer To N	x 18
п Ѕрап	Live Defie	Load ction	Total Load	Live Defle		Total Load	Live Defle		Total Load	Live Defle	0.00	Total Load	Live Defle		Total Load	Live Defle		Total Load		Load -	Total/ Load	Live	Load	Total
Beam	L/360	L/480	L/240	L/360	L/480	L/240	L/360	L/480	L/240	L/360	L/480	L/240	L/360	L/480	L/240	L/360	L/480	L/240	L/360	L/480	L/240	L/360	L/480	L/240
6	681	522	777	1046	1016		1082	1082			1348	1348	1450	1450	1450	1827	1827	1827	2233	2233	2233	2698	2698	269
7	443	337	639	864	669		893	720			1102	1102	1181	1181	1181	1470			1772		1772		2110	211
8	303.	229	441	603	461	736	649	497	760		794	932		918	996	1229	1229	1229			1469	1732	1732	173
9	215	163	315	434	330		467	356	637	748	. 574	807		667	861	1056	1041	1056	1254	1254	1254	1468	1468	146
10	158	120	231	321	244	467	347	263	504	559	427	704		497	758	925	784	925	1094	1094		1274		
11	120	90	174-	244	185		263	199	384	428	325	584		380		785	603	823	969	870		1125		
12	93	70	134	189	143		205	155	298	334	253	484		296.	543		473	732	870	686		1007	945	
13	73	55	105	150	113	218	162	122	235	265	201	385		235		495	377	625	717	550			761	91
14	59 48	44 36	84	121	91	175	130	96	189	214.		310		189		401	305	541	584	446	689	807	621	832
15	40	36	68	98	74	142	106	80	154	175	132	253		155	297	329	250	472	481	367	601	668	- 512	74
16 17	33	-	55 46	81	61	117	88	66	126	145	109	209	170	128	245		207	396		305	529	559	427	650
18	- 33		38	68 58	51 43	97 81	74 62	55 47	105	121	91	174	142	107	205	230	174	332	337	256	469	472	359	58
19	1	- 1	32	49	37	68	53	40	88 74	102	77	147	120	91	172	194	147	281	286	217	413	401	305	52
20		0.4	02	42	32	58	46	34	63	87. 75	66. 57	124	102	77	146	166	125	239	245	185	353	344	261	46
21				37	02	50	39	34	54	65	49	106	88	66	125	143	108	205	211	160	304	297	225	42
22				32	19	43	34		47	57	43	79	66	57	108	124	93	177	183	138	263	258	195	37
23		- 1	12		THE SH	37	-04		40	50	37	68	58	50 44	93	108	81	154	160	121	229	225	170	324
24	-	-		- 1		32			35	44	33	60	51	39	81 71	95 84	71 63	134	140	106	200	198	150	284
25	94			-	1	-		- 1	-	39	-	52	46	34	62	74	56	117	124	93	176	175	132	250
26		100		-			- 1	- 1	-	35	-	46	41	31	55	66	50	91	110	83 74	155	155	117	22
27		4.1	1410	-	Y. 1	-	-	-	-	31	-	411	36	-	48	59	45	81	88	66	138	138	104	196
28		- 1	4	- 1			-	-	-		-	36	33	-	43	53	40	72	79	59	122	124	93	175
29		10		-	4.1	3.	-	- 1	-	-	-	32	-		38	48	36	64	71	53	98	100	84 76	156
30	100	1.	Supply .	(3.2)	1			-	-	-	-	-	-		34	43	33	57	64	48	88	91	68	126

### How to use maximum uniform load tables:

- Select the correct table for the beam application vou need.
- 2. Choose the required beam span in the left column.
- 3. Select a beam depth from the tables that satisfies BOTH the live and total load PLF on the beam.
- 4. Check the bearing requirements as shown on page 8.

Example: Floor live load 480 PLF, L/360 deflection limit. Floor total load 660 PLF, L/240 deflection limit. Beam span 14' - 0"

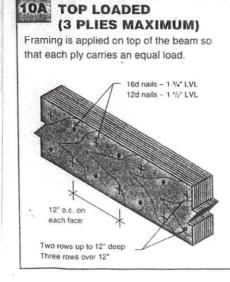
Solution: Try 2 plies 13/4" x 111/6", which can carry:

- Live load 2 x 250 = 500 > 480 PLF 
   OK
   Total load 2 x 363 = 726 > 660 PLF 
   OK

### Notes (for page 6 and 7)

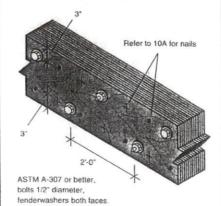
- 1. Beam spans are defined as follows: Simple span dimensions are measured from inside face of supports. Multiple span dimensions are measured from inside face of exterior supports to center line of interior supports.
- 2. These tables are for simple spans (with a support at each end) or for continuous (multiple span) beams if spans are equal.
- 3. PLF values are for a single ply of 1¾" Gang-Lam LVL.
  Double the values for two plies or 3½" thickness.
  - Triple the values for three plies or 5¼" thickness.
- \* 4. For 13/4" x 16" beams and deeper, two plies (minimum) are required.
  - 5. More than three plies may require special design. Contact your LP engineered products distributor.

### CONNECTION OF MULTIPLE PLY BEAMS



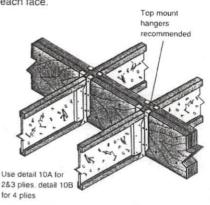
### **10B** TOP LOADED 4 PLIES

Framing is applied on top of the beam so that each ply carries an equal load.



### SIDE LOADED

The same framing is used on each side of the beam so the same load is carried on each face.



### GANG-LAM LVL 2950 Fb 2.0E DESIGN SPECIFICATIONS

GANG-LA	M PS & W 2	950 Fb 2.0E	ALLOWA	ABLE STRESS	SES (PSI) FOR	BEAMS
GRADE	BENDING Fb	MOE (X 10°)	TENSION Ft	COMPRESSION PARALLEL TO GRAIN FC	COMPRESSION PERPENDICULAR TO GRAIN FCP	SHEAR Fv
2950 Fb -2.0E	2950*	2.0	2300	3180	1020	290

<sup>\*</sup> Value is for 12" depth

For other depths adjust values by (12/depth)<sup>17</sup>. For depths less than 5.5", use the value for 5.5".

	MAX	MUM MOI (Ft – Lbs)		MAX	KIMUM SH (Lbs)	EAR	МОМ	ENT OF IN (In <sup>4</sup> )	ERTIA	* Wei	WEIGHT (Lbs / Ft) ight is for Gang-Lam weights may be red	
DEPTH (Inches)	1-13/4	2-1¾ 1-3½	3-1¾ 1-5¼	1-13/4	2-1¾ 1-3½	3-1¾ 1-5¼	1-13/4	2-1¾ 1-3½	3-1¾ 1-5¼	1-13/4	2-1¾ 1-3½	3-1¾ 1-5¼
71/4	4050	8100	12150	2452	4905	7358	55	111	166	3.63	7.26	10.89
91/4	6367	12734	19102	3129	6259	9388	115	230	346	4.63	9.26	13.89
91/2	6690	13381	20072	3214	6428	9642	125	250	375	4.76	9.51	14.27
111/4	9158	18317	27476	3806	7612	11418	207	415	622	5.63	11.27	16.90
111/8	10126	20252	30378	4017	8035	12053	244	488	732	5.95	11.90	17.84
14	13747	27494	41242	4736	9473	14210	400	800	1200	7.01	14.02	21.03
16	17616	35233	52849	5413	10826	16240	597	1194	1792	8.01	16.02	24.03
18	21923	43847	65771	6090	12180	18270	850	1701	2551	9.01	18.02	27.04

**Modification Factors:** 

Allowable stresses listed above for bending (Fb), tension (Ft), compression parallel to grain (Fc), shear (Fv), also maximum moment and maximum shear values are for normal load duration. These may be increased where allowed by code for shorter load durations.

Allowable withdrawal loads for nails installed perpendicular and parallel to glue lines of the LVL are as provided in the code for sawn lumber having minimum specific gravities of 0.50 and 0.47, respectively. Allowable lateral loads for nails installed perpendicular and parallel to glue lines of the LVL are as provided in the code for solid-sawn lumber having minimum specific gravities of 0.46 and 0.39, respectively. Nails installed perpendicular to the wide face of veneers may be installed in accordance with the code. Nails installed parallel to the wide face of veneers must be spaced at least 3 inches on center for 8d common nails and 4 inches on center for 10d common nails.

Allowable loads for bolts installed perpendicular to the wide face of veneers with the loads applied parallel and perpendicular to the grain of the veneers are as provided in the code for solid-sawn lumber having a specific gravity of 0.47

### GANG-LAM PS & W 2950 Fb 2.0E BEARING CHARTS 1 Ply 13/4" Bearing Length (In) 21/2 11/2 31/2 3 41/2 51/2 61/2 5 6 Maximum Reaction 2677 3570 4462 5355 6247 7140 8032 9817 11602 8925 10710 Bearing Length (In) 71/2 81/2 7 8 9 91/2 10 101/2 11 111/2 12 Maximum Reaction 13387 12495 14280 15172 16957 16065 17850 18742 19635 20527 21420

Bearing Length (In)	11/2	2	21/2	3	31/2	4	41/2	5	51/2	6	61/2
Maximum Reaction	5355	7140	8925	10710	12495	14280	16065	17850	19635	21420	23205
Bearing Length (In) .	7	71/2	8	81/2	9	91/2	10	101/2	11	111/2	12
Maximum Reaction	24990	26775	28560	30345	32130	33915	35700	37485	39270	41055	42840

3 Ply 13/4"											
Bearing Length (In)	11/2	2	21/2	3	31/2	4	41/2	5	51/2	6	61/2
Maximum Reaction	8032	10710	13387	16065	18742	21420	24097	26775	29452	32130.	34807
Bearing Length (In)	7	71/2	8	81/2	9	91/2	10	101/2	11	111/2	12
Maximum Reaction	37485	40162	42840	45517	48195	50872	53550	56227	58905	61582	64260

How to use bearing charts:

- Determine the thickness required for the Gang-Lam LVL beam and calculate
- the maximum reaction. Select the appropriate table for 1,2 or 3 plies.
- Select a bearing length with a maximum reaction that meets or exceeds your calculated value.

  Make sure the support is structurally adequate to carry the reaction.

Example: 31/2" Gang-Lam LVL with a reaction of 9200 lb.

Solution: Select a 3" bearing length with a maximum reaction of 10710 Lbs.

- Tabulated values are based on a support with minimum allowable bearing strength of 1020 psi. This is suitable for beams bearing on steel or the end grain of studs.
- Make sure the support is structurally adequate to carry the reaction. Compressive strength parallel-to-grain of studs may require more
- studs than the bearing length above indicates. For beams bearing on wood plates, the required bearing length will increase based on the bearing strength (compression perpendicularto-grain) of the species and grade used for the plate material.
- Verify local code requirements concerning minimum bearing.