

DRAWING SCHEDULE

bgsplanco.com

24 X 30 GARAGE
BGS PLAN COMPANY
P.O. BOX 1181
ROSEVILLE, CA 95678
(916) 783-6822

SHEET 1

DRAWING SCHEDULE BUILDING DATA

SHEET 2

FOUNDATION PLAN FLOOR PLAN DETAILS

SHEET 3

ELEVATIONS WALL FRAMING TRUSS LAYOUT ROOF SHEATHING PLAN

SHEET 4

SECTION MATERIAL LIST

SHEET 5 - Optional

ELECTRICAL

SHEET G1-3 CALIFORNIA ONLY

CALIFORNIA GREEN CODE

DESIGN DATA

OWNER:	
PARCEL NO.:	

Scope of Work : Building Shell for Private Garage

Basis of Design: IBC, CBC & CRC, 2015 NDS and ASCE 7-16
Building Use: Parking & Storage
Occupancy Group: U
Construction Type: VB
Floor Area: 720 Sq Ft Total
Building Height: 14'-3" One Story
Soil Pressure: Designed for 1500 psf
Wind Load: 110 MPH, 3 Second Gust
Roof Load: 40 PSF Live + 19 PSF Dead

PLAN NUMBER 247

DESIGNED

LOREN/NORM

T -

A. Study plans and ALL instructions carefully before proceeding with any work. B. Check local building code requirements and obtain a building permit.

1. Clean surface area of site and make level. Surrounding area shall slope away from garage in all directions for drainage purposes. Plans call for 4" gravel base. Concrete may be placed on native undisturbed soil providing there is no fill material and the building department does not require a soils report.

2. Construct batter boards as shown in Figure A, using duplex nails.

3. Install nails on top edge of horizontal boards at outside edges of building.

4. Attach nylon string to starting nail and tightly pull string to opposite batter board. Tie string off and loop to adjacent nail. Attatch string securely. Repeat process to opposite batter boards until building perimeter is completed.

5. Measure string line intersection to opposite string line intersection on diagonal. Now measure opposite diagonal. Both measurements should be 38'-5". If measurements are not equal adjustment of the position of string on batterboard is necessary. Install new nail to the right or left of existing nail and reposition string. Remeasure diagonals. Important! If measurements have gotten closer to each other you're going in the right direction. Often several adjustments are necessary before string becomes perfectly square.

6. Using plumb bob at string, mark grade (with nails) at several points along perimter of building.

7. Place a 2x4 on grade on outside of nails.

8. Using flour (or chalk) mark outside edge of footing using 2x4 as a guide.

9. Remove string with intentions of replacing at a later stage.

10. Excavate footings. Use backhoe tractor if necessary. Place excavated material on exterior of footings leaving sufficient room to walk around the perimeter.

11. If gravel base is used, place material on grade at interior as shown on Footing Detail 2.

12. Reattach strings to correct nails.Did you mark them? Measure diagonals.

13. Using 2x6 for form boards, form perimeter of building as shown in Slab Form Detail 1. Let ends of form board run wild where possible. You will be reusing them. Forms need to be level. This is best accomplished by using a transit or a builder's level After all forms have been leveled, brace as necessary to achieve strong and secure forming. Leveling should be done at initial bracing of forms.

14. Install rebar. Lap joints a minimum of 20. Tie

15. Install underground utilities if applicable. Must

have permit. Must be installed per code. 16. Install wire mesh or #3 rebar at 18 oc each way. NOTE:IF NOT REQUIRED BY BUILDING DEPARTMENT,AND IF CRACKING AND/OR MOISTURE PENETRATION ARE NOT AN ISSUE. THE REINFORCEMENT FOR THE CONCRETE SLAB IDENIFIED ON PLANS IS AT THE DISCRETION OF THE OWNER.

17. Locate and place anchor bolts, sstb a.b. and holdown straps per layout on foundation plan. use

simpson placement guides as specified on plans.

18. Clean footing of debris and call for forming inspection from local building department.

19. After inspection has passed you're ready for concrete. Placement and finish of concrete should be by a liscenced concrete contractor unless owner/builder has experience working with "mud". 20. Concrete should be kept moist for a minimum

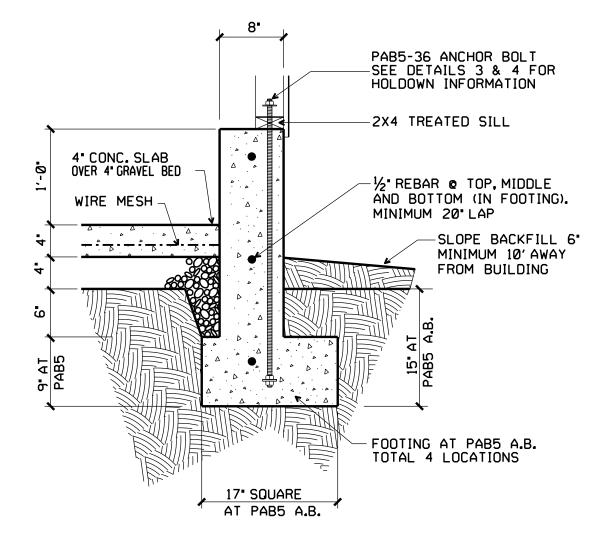
of 3 days. 21. If using owner built trusses see attached sheet for plans and instructions

-2X4 DF STUDS @ 16"O.C. -2X4 TREATED SILL 4" CONC. SLAB OVER 4" GRAVEL BED %"DIA.X 12"ANCHOR BOLT W/ 3"X3"X"4"PLATE WASHER WIRE MESH SLOPE BACKFILL 6" MINIMUM 10' AWAY FROM BUILDING *4 REBAR @ TOP, MIDDLE 12" AND BOTTOM OF FOOTING. MINIMUM 20" LAP AT SPLICES

STEMWALL FOOTING

1"=1'-0"

104 LINEAL FEET

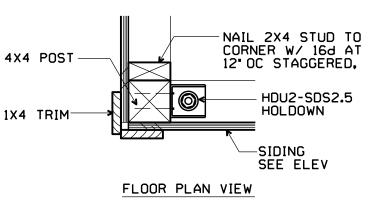


FOOTING AT PAB5 A.B. TOTAL OF 4 LOCATIONS

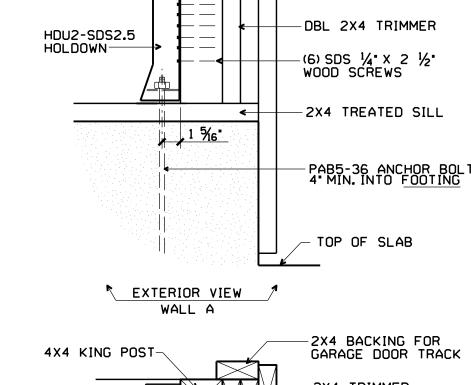
FOUNDATION PLAN

1/4"=1'-0"

4X4 POST (6) SDS 1/4" X 2 1/2" — WOOD SCREWS HDU2-SDS2.5 HOLDOWN 2X4 TREATED — PAB5-36 ANCHOR BOLT 4 MIN. INTO FOOTING EXTERIOR VIEW /



SCALE: 1½"=1'-0"



4X4 KING POST

-2X6 JAMB

- 2X4 TRIMMER HDU2-SDS2.5 HOLDOWN FLOOR PLAN VIEW

HDU2 HOLDOWN at DOOR

SCALE: 11/2"=1'-0"

24'-0" OVERALL

TOTAL OF 2

bgsplanco.

COMPANY (1181 CA 95678 -6822

PLAN CO. BOX

RO

 \triangleleft

AB

30

24

CONCRETE AND REINFORCING STEEL

2. THE WEIGHT & MINIMUM 28 DAY STRENGTH OF CONCRETE SHALL BE: SLAB ON GRADE & FOOTINGS: 150 PCF, F'c = 2500 PSI

3. CEMENT SHALL CONFORM TO ASTM C150 TYPE 1 OR 2. PROVIDE TYPE 5 CEMENT FOR SOILS CONTAINING SULFATE CONCENTRATIONS OF MORE THAN 0.2%.

4. CONCRETE AGGREGATES: NATURAL SANDS AND ROCK AGGREGATES SHALL CONFORM TO ASTM C33.

5. REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 40.

ALL ANCHOR BOLTS TO BE IN PLACE

USE ABS% ANCHOR BOLT STABILIZER

1. CONCRETE CONSTRUCTION SHALL CONFORM TO ACI-318-08.

PRIOR TO FORM/FOUNDATION INSPECTION. USE AM% ANCHORMATE AT %" MUDSILL

AT PAB5 ANCHOR BOLT (4 TOTAL)

ANCHOR BOLTS (33 TOTAL)

12'-0" SILL PLATE 12'-0" SILL PLATE WALL "C" 29' -3" - 29' -3" GRID LINE - 26′ -4" 26' -2" 2X4 DIAGONAL BRACE @ 45 0 8'-11 34" (LONG POINT) %"DIA.X 12"LONG ANCHOR BOLT (7"MINIMUM EMBEDMENT) W/ 3"X3"X"/"PLATE WASHER. L=10′ -23′ -7" LET-IN TO TOP PLATES 23' -3" 2X4 STUDS @ 16 0.C. AT EACH CORNER. NAIL 6-16d EACH CONNECTION HOLE THRU MUDSILL MAY BE OVERSIZED BY A MAXIMUM OF 1/16". (MAY BE OMITTED WHEN GYP. BOARD CEILING IS INSTALLED) 20' -4" WALL 12′ -8" A L=30' LOCATION OF DIAGONAL END WALL BRACE. TYP - BOTH ENDS OF RIDGE. SEE DETAIL 1, SHEET 4 7' -7" 4" CONCRETE SLAB WITH 6X6 10/10 WIRE MESH (OR *3 REBAR AT 18 OC) OVER 4" GRAVEL BASE - CONC.LANDING @ DOOR 4' -5" 3068 × 3 1/8 X 12 GLULAM BEAM 16X9 GARAGE DOOR GRID LINE REVERSED REVERSED L=4' 4'-0 1/2" 15'-11" WALL "A" 4 13/16" PAB5-36 ANCHOR BOL B GRID LINE GRID LINE

CONSTRUCTION REQUIREMENT NOTES

. ROOF DIAPHRAGM NAILING TO BE INSPECTED BEFORE COVERING. STRENGTH AXIS OF WOOD STRUCTURAL PANEL SHALL BE PERPENDICULAR TO SUPPORTS. FLOOR DIAPHRAGMS SHALL BE TONGUE AND GROOVE OR HAVE BLOCKED PANEL EDGES. WOOS STRUCTURAL PANEL SPANS SHALL CONFORM TO CBC TABLE 2304.7.

2. ALL DIAPHRAGM AND SHEAR WALL NAILING SHALL UTILIZE COMMON NAILS WITH FULL HEADS UNLESS OTHERWISE APPROVED.

MECHANICALLY DRIVEN NAILS USED IN WOOD STRUCTURAL PANELS SHALL MEET THE SAME DIMENSIONS AS THAT REQUIRED FOR HAND-DRIVEN NAILS, INCLUDING DIAMETER, MINIMUM LENGTH AND MINIMUM HEAD DIAMETER. CLIPPED HEAD OR BOX NAILS ARE NOT ACCEPTABLE. (CBC 2305.3.12, (ORDINANCE 1167)

4. ALL BOLT HOLES SHALL BE DRILLED 1/32" TO 1/16" OVERSIZED. BOLTS SHALL NOT BE FORCIBLY DRIVEN. (NDS 11.1.2.2)

5. FOUNDATION SILLS SHALL BE NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD. (CBC 2304.11.2.4)

6. FASTENERS IN PRESERVATIVE-TREATED WOOD SHALL BE HOT-DIPPED, GALVANIZED STEEL OR STAINLESS STEEL. (CBC 2304.9.5)

'.THE QUALITY MARK SHALL BE ON THE STAMP OR LABEL AFFIXED TO PRESERVATIVE-TREADED WOOD AND SHALL INCLUDE THE FOLLOWING INFORMATION: IDENTIFICATION OF TREATING MANUFACTURER, TYPE OF PRESERVATIVE USED, MINIMUM PRESERVATIVE RETENTION (PCF), END USE FOR WHICH THE PRODUCT WAS TREATED, AWPA STANDARD TO WHICH THE PRODUCT WAS TREATED AND IDENTITY OF THE ACCREDITED INSPECTION AGENCY. (CBC 2303.1.8.1)

.MAXIMUM MOISTURE CONTENT OF WOOD SHALL BE 19% OR LESS BEFORE BEING COVERED WITH INSULATION, INTERIOR WALL FINISH AND FLOOR COVERING OF OTHER MATERIALS.

FLOOR PLAN

%" T1-11 PLYWOOD SIDING WITH 8d COMMON NAILS AT 6" O.C. EDGE AND 12" O.C. FIELD. %" ØX 12" LONG ANCHOR BOLTS AT 48" O.C. MAX. PLAN NUMBER 247

LOREN/NORM

WALL FRAMING

1. Install nail on batter boards 3 $\frac{1}{2}$ to interior of previously marked nail.

2. Restring using interior nails. Measure diagonals. Both measurements should be Adjust nails and string as necessary.

3. Plumb from string on each wall and mark slab. Snap chalk line on slab to identify interior side of wall. Remove string.

4. Place treated sills flat on slab to interior of anchor bolts. See Floor Plan, Sheet 2 for sill lengths. Using a square, Mark each side of anchor and bolt on sill. Measure from chalk line for edge of bolt and transfer measurement to sill. This procedure will locate the bolt position on sill. Mark the side to remain up. Drill 1/16" holes.

5. Frame one wall at a time. See Floor Plan, Sheet 2 for spacing, lengths and dimensions.

6. Using slab as working suface place sill and bottom top plate on edge, face to face and tack together (bottom top plate may be cut 1/8" short to allow for future adjustments). Place mark to indicate face of stud on both sill and plate. Put an "X" on side of mark that stud will go. Remove tacks and place approximately 9' apart.

7. Place studs, headers and/or cripples between sill and plate. Nail each connection with 2-16d nails thru plates into studs. Nail studs to end of header with a minimum of 8-16d nails. Nail temporary 2×4 scab on sill joint AT GARAGE DOOR.

8. Lift wall up (with help, of course) over anchor bolts and rest on slab. Install temporary 2x4 braces at 45 degrees from top of wall to 2x4 stake in ground. Braces will hold wall vertical.

9. Repeat procedure for other walls.

10. Do not nail corners together yet.

11. Place washers and nuts over anchor bolts and tighten.

12. Using a plumb bob or long level, plumb each wall front to back and side to side. Readjust brace at wall, not at stake, as necessary.

13. Place top top plates on walls and nail with 16d nails at 18" on center. Minimum LAP is 4'-0" with 24-16d nails per lap.

14. Nail corners together with 8-16d nails. Place a 2x4 diag. corner brace on top plate as indicated on Floor Plan, Sheet 2. Mark plate at both sides of brace. Cut block from top top plate only and attach brace into new slot w/ (6)16d nails at each connection.

15. Install windows with building paper flashing.

16. Place brace from top of wall to bottom of opposite wall. OVERLAPPING of braces will be required. Do not extend braces will be required. Do not extend braces past exterior side of studs. Nail brace to studs first, then nail OVERLAP using 16d duplex nails.

17. Remove exterior wall braces at interior brace just installed and relocate on interior building at next bracing location. Repeat procedure at each

18. Install plywood on exterior of building. Nail with 8d galvanized nails at 6° O.C. at edges and 12° O.C. at field unless noted otherwise, see floor plan.

ROOF FRAMING

19. Mark top plate for truss layout. at 24" o.c. see truss layout on sheet 3

20. Place gable end truss on back wall. Using lapped 2 x 4 brace, secure truss at top to 2x4 stake at grade. Minimum 2 braces. Place interior truss on at grade. Minimum 2 braces. Place interior truss on mark. Secure to each top plate with temporary 16d nail. Secure on each side of ridge by placing temorary 1 x 6 across top chords using a 22 ½ block for spacing. (21 ½ block for Owner Built Trusses). Do not nail block at this time. Repeat procedure until all trusses have been placed.

21. Brace gable end truss as done with first truss.

22. Pull string line at ridge between gable end trusses.

23. Now YOU're ready to permanently secure trusses to top plate. Remove temporary nails as necessary and adjust center line of truss to string line at ridge. Install block at ridge. Secure truss to top plate w/3-16d nails.

24. Install 'Z' Bar flashing , vent and plywood at gable ends. See plywd. layout for gable ends A and C.(use garage door cut-outs)

25. Install 2 \times 4 outriggers and barge rafter as shown on Framing Isometric, Sheet 4 & truss layout sheet 3.

26. Install fascia board with 2 - 16d galvanized nails per rafter tail.

27. Begin roof plywood at overhangs using CCX plywood as shown on Sheet 3. Nail roof SHEATHING to roof trusses with 8d nails at 6° on CENTER Stagger plywood butt joints.

28. Install roofing over Felt.

29. Remove interior braces.

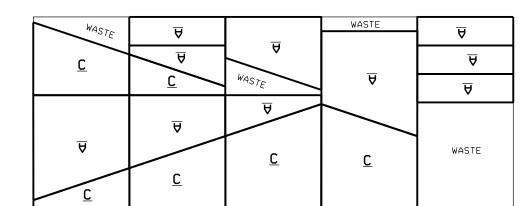
30. Apply exterior trim, see Sheet 3.

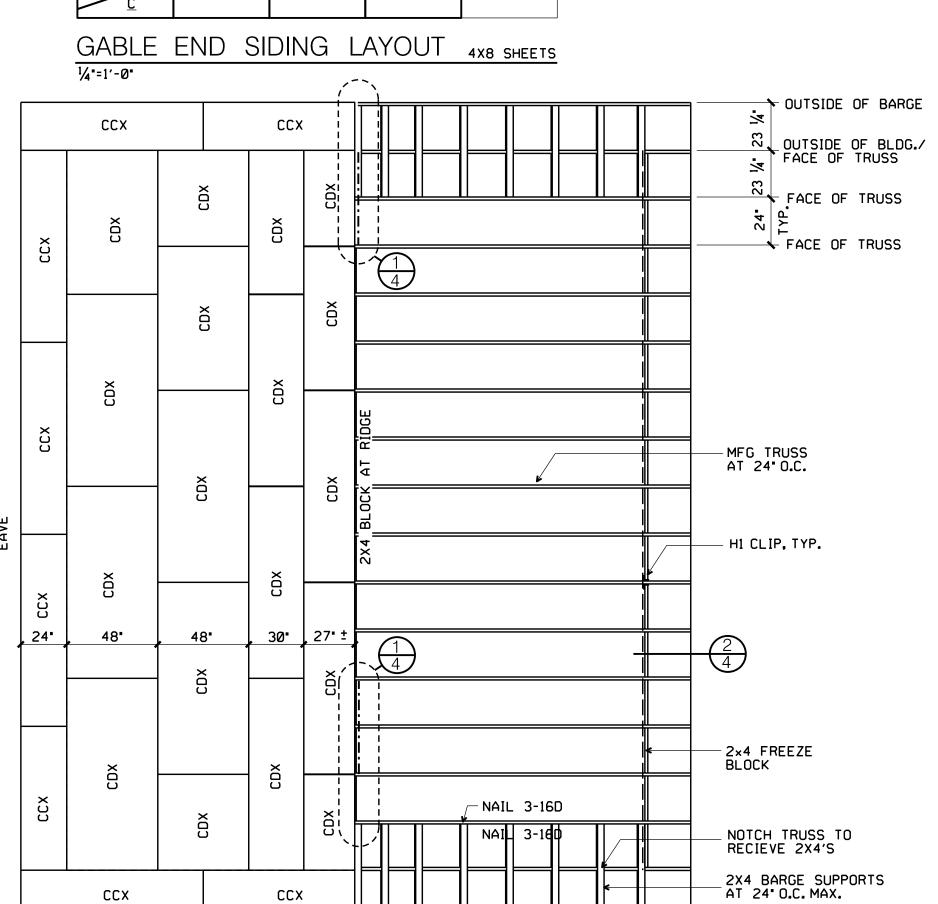
31. Paint or stain as desired.

32. Clean-up

33. Party

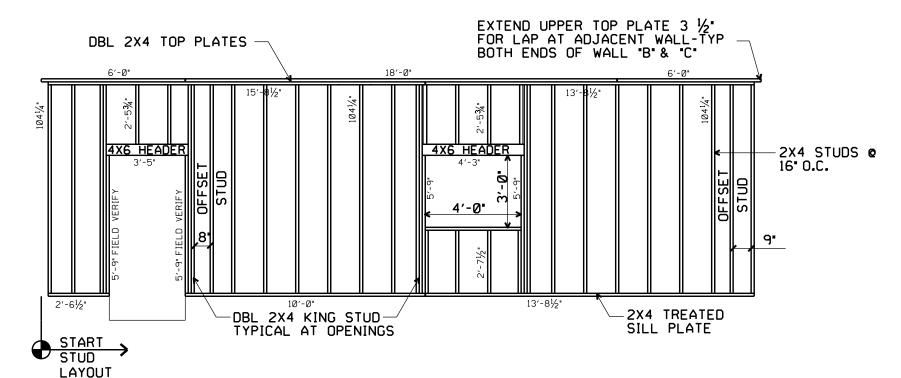
33. SEND PHOTOS





SHEATHING LAYOUT / TRUSS LAYOUT

PANEL ID 24/0 ¹/₄"=1'-0"

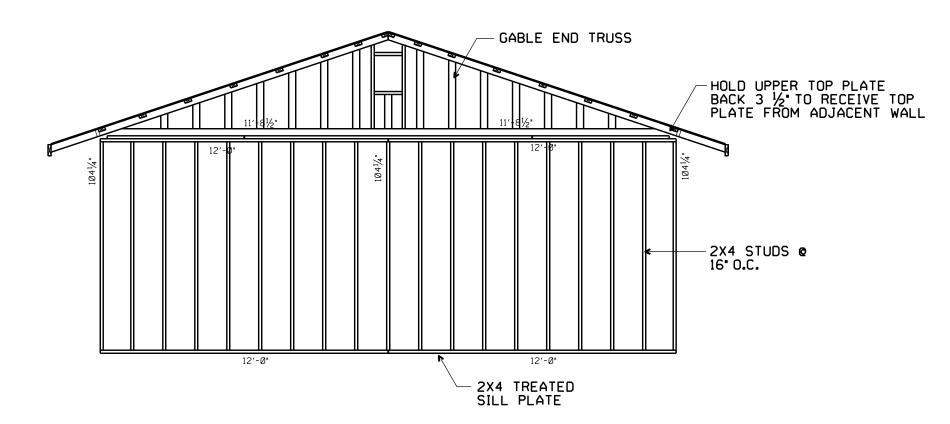


FRAMING ELEVATION

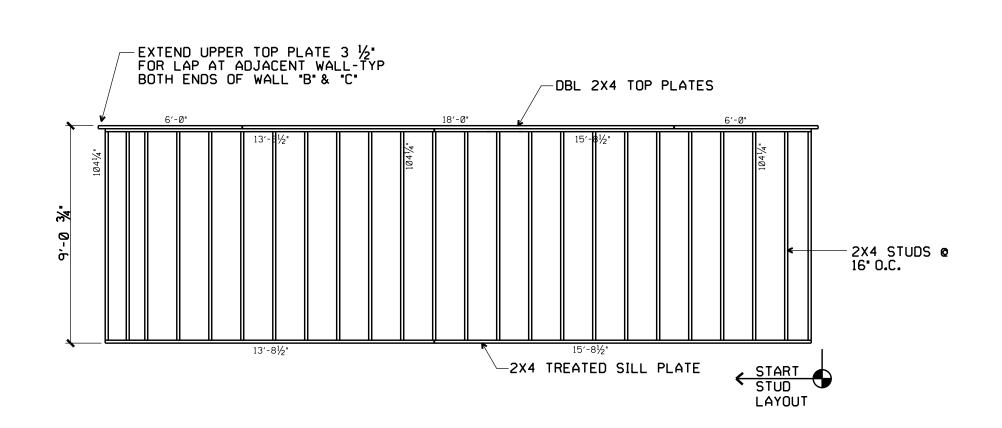
FRAMING

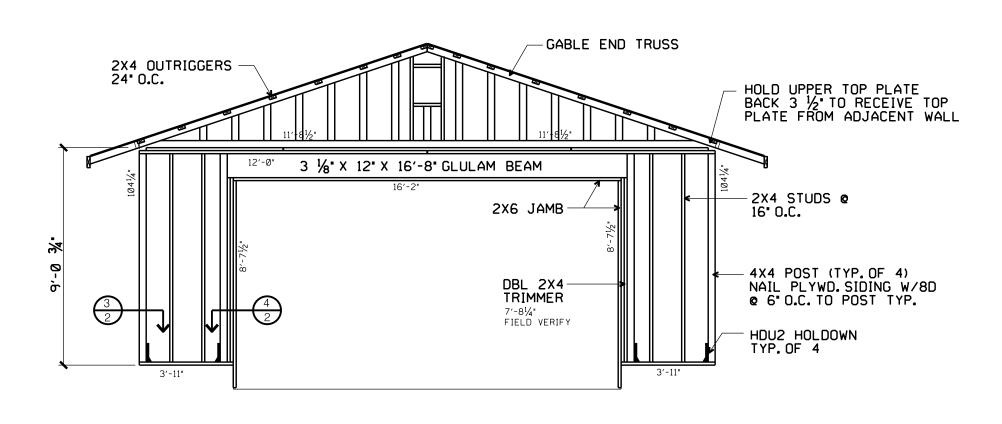
WALL D

WALL B

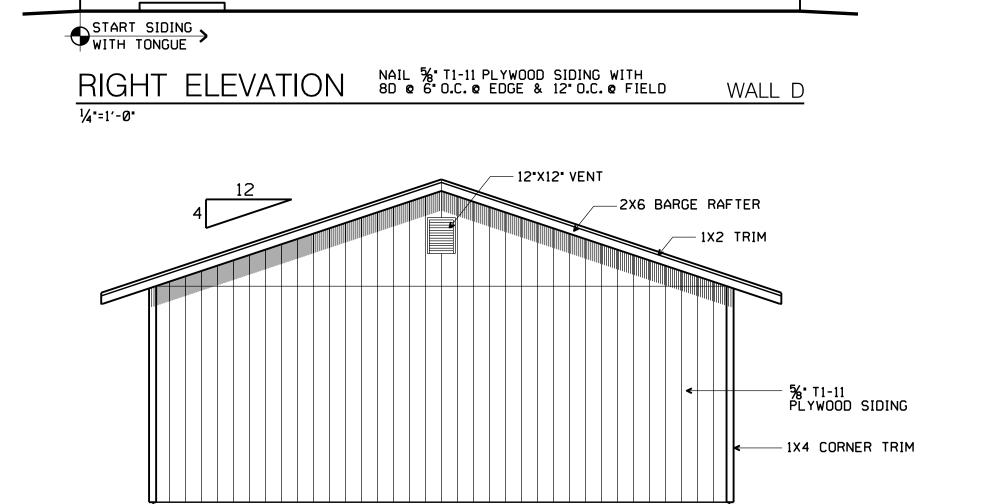


FRAMING ELEVATION WALL C

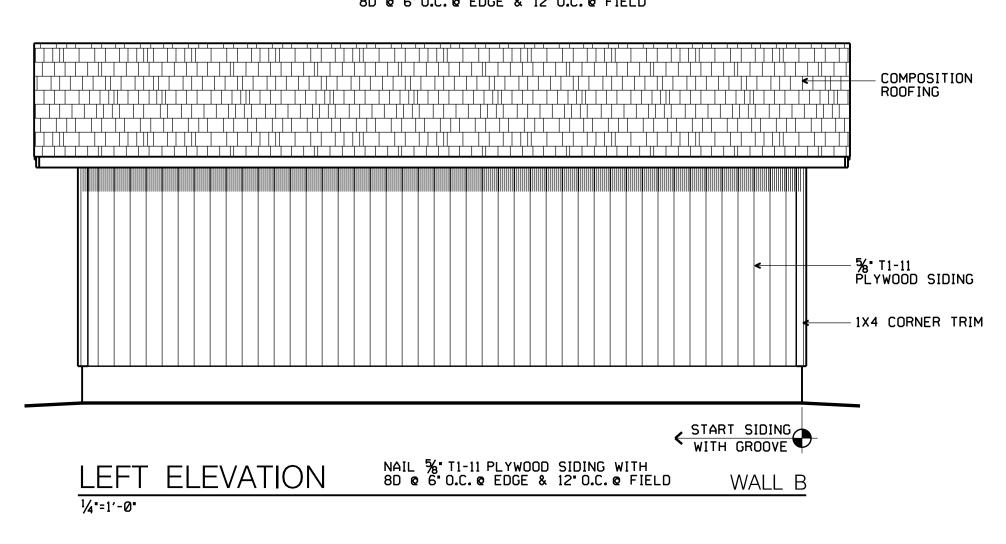


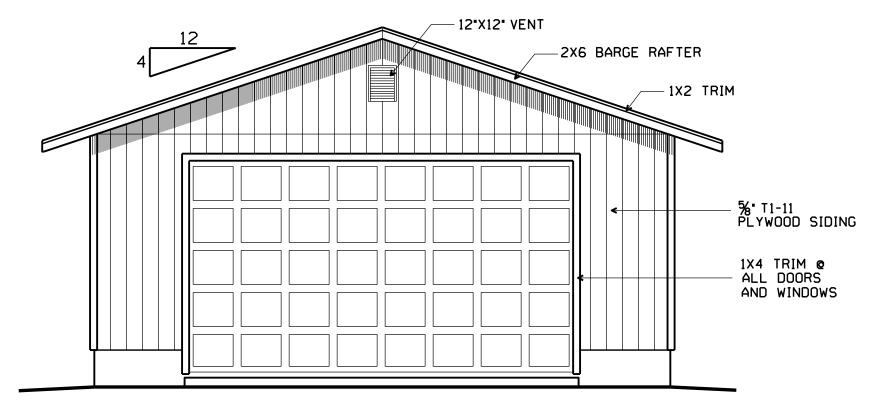


FRAMING ELEVATION WALL A ¹/₄"=1'-0"



REAR ELEVATION WALL C NAIL % T1-11 PLYWOOD SIDING WITH 8D @ 6 O.C.@ EDGE & 12 O.C.@ FIELD





FRONT ELEVATION WALL A 1/4"=1'-0" NAIL % T1-11 PLYWOOD SIDING WITH 8D @ 6 O.C. @ EDGE & 12 O.C. @ FIELD

bgsplanco. COMPANY × 1181 CA 95678 -6822 GARAGE BGS PLAN C P.O. BOX OSEVILLE, CA (916) 783-6 30

ROSE (91

24

-2X6 FASCIA

%" T1-11 PLYWOOD SIDING

1X4 CORNER TRIM

PLAN NUMBER 247 LOREN/NORM

IT IS THE OWNER/BUILDERS RESPONSIBILITY TO VERIFY MATERIAL LIST PRIOR TO ORDERING. NOTIFY ANY DISCREPANCIES TO THE DESIGNER.

_				MATERIAL & CUT LIST	PLAN 247
		24	× ć	30 DELUXE GARA	AGE
١٥.	PCS.	DIM.	LENGTH	DESCRIPTION	NOTES
				WALLS	
1	1	2 × 4	8,	D.F. Pressure Treated Sill Plate	
2	2	2 × 4	20'	D.F. Pressure Treated Sill Plate	
3	4	2 × 4	16′	D.F. Pressure Treated Sill Plate	
4	12	2 × 4	92 1/4"	D.F. Cripples, Blocks & Trimmers	
5 6	72	2 × 4 4 × 6	104 ¹ / ₄ *	STD./BTR D.F. Studs & Gar Dr Track #2 D.F. Header	1 e 4'-3" 1 e 3'-5"
7	1	31/8× 12	18'	24F-V4 Glulam Beam	1 0 16'-8"
8	4	4 × 4	10'	STD/BTR D.F. Post & Blocks	4 e 104 1/4"
9	10	2 × 4	12'	STD/BTR D.F. Top Plates	
10	2	2 × 4	14'	STD/BTR D.F. Top Plates	
11	2	2 × 4	16′	STD/BTR D.F. Top Plates	
12	2	2 × 4	18′	STD/BTR D.F. Top Plates	
13	4	2 × 4	10'	D.F. Diagonal Corner Bracing	4 e 8'-11¾'
14 15	6 22	%" 5/ "	4' × 8'	T1-11 Plywood Siding	GABLE ENDS AND WINDOW
ا د.	22	%"	4' × 9'	T1-11 Plywood Siding	1
<u> </u>	12	1 .	101	TRIM	6.7.5
20 21	12 5	1 × 4	10'	R/S Garage Door & Corner Trim R/S Window & Door Trim	Cut To Fit
21 22	4	1 × 4	16'	R/S Window & Door Trim R/S Barge Rafter	Cut To Fit
23	18	1 × 2	10'	R/S Barge Trim, Eave Trim	Cut To Fit
24	4	2 × 6	18′	R/S Fascia Board	Cut To Fit
25	2	2 × 6	10'	R/S Jamb @ Sides	
26	1	2 × 6	18′	R/S Jamb @ Head	
				MANUFACTURED TRUSSES	
30	2		24'	Gable End Truss	
31	14		24'	Common Truss	
32	4	2 × 4	921/4"	Ridge Block	
33	7	2 × 4	921/4"	Freeze Block	VERIFY
34 35	16 7	2 × 4	921/4"	D.F. Barge Support	1
36 36	2	2 × 4	12'	Truss Bracing (Flat) End Wall Diagonal Bracing	Detail 1
			1.0	ROOF MATERIAL	Detail 1
40	32	15/32"	4' × 8'	CDX Plywood/OSB	Panel I.D. 24/0
41	8	15/32"	4' × 8'	CCX Sheathing at Overhang	Panel I.D. 24/0
42	3	ROLI	_S	Roofing Felt	
43	11	SQUA	RES	Composition Roofing Shingles	VERIFY WITH OWNER 1009 ACTUAL SO.FT.
				DOORS & WINDOWS	<u>.</u>
50	1	3068		Pre-Hung Door	VERIFY WITH OWNER
51	1	EA.		Lockset	VERIFY WITH OWNER
52 53	1	4030 16×9		Window Garage Door	VERIFY WITH OWNER
<u> </u>	1 1	ראטנ	<u>I</u>	HARDWARE	WITH OWNER
6Ø]	1 Bo×	50 lbs.		16d VC Sinker Nails	
	1 Box	50 lbs.		8d Galvanized Nails	
	1 Bo×	50 lbs.		8d Common Nails	
63		25 lbs.		Roofing Nails	
64	1	10 lbs.		16d Galvanized Nails	Fascia & Trim
65	2	12"×12"		Gable End Vent	
66	13	1½"×1½"	10'	Galvanized Drip Edge	1
67	2	1½"×1½"	4'/ 6'	Angle Iron For Garage Door Track	
68 68	33	Rolls %•	36" 12"	Building Paper Foundation Bolt & Nut	1
69 70	33	%°	14	3"x3"x1/4" Plate Washer	
70 71	33	/8		AM% Anchormate	
72	28			H1 Clip	TRUSS TO TOP PLATE
73	4			HDU2-SDS2.5 Holdown	
74	4			PAB5-36 Anchor Bolt W/ Nut	AT HDU2 HOLDOWN
75	4			ABS% Anchor Bolt Stabilizer	
76	4			L30 Clip	
77	4	1,	_	L50 Clip	1
78	13	1/2"	20'	#4 Rebar	5. 5
79	4			LPT4 Clip Rebar Supports	For Rebar Laps
80	24			•	

MATERIAL LIST DOES NOT INCLUDE MATERIAL FOR FORMING AND TEMPORARY BRACING.
VERIFY WITH CONTRACTOR.

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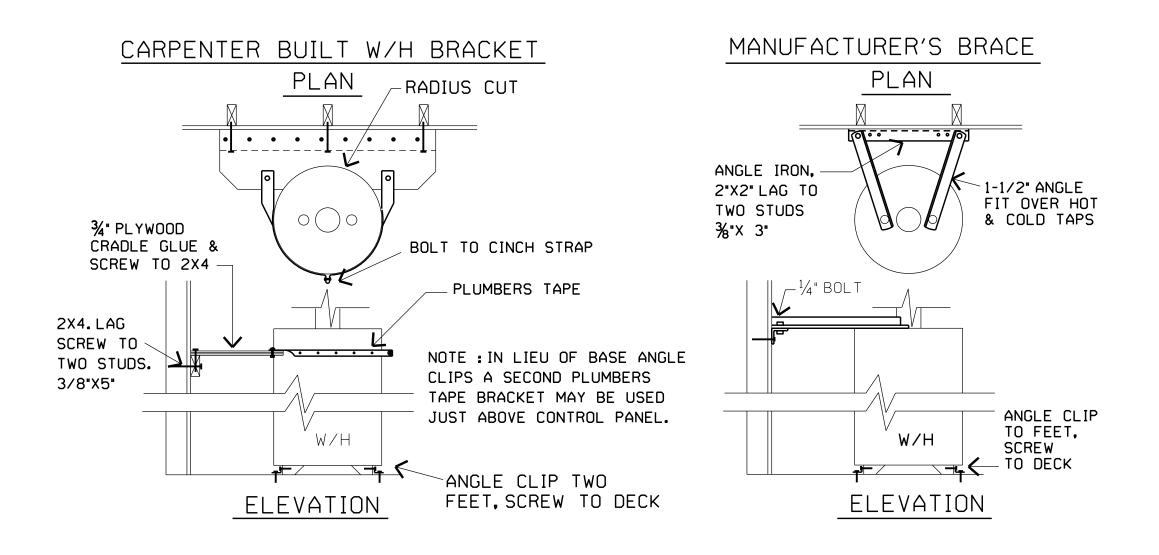
24 X 30 GARAGE

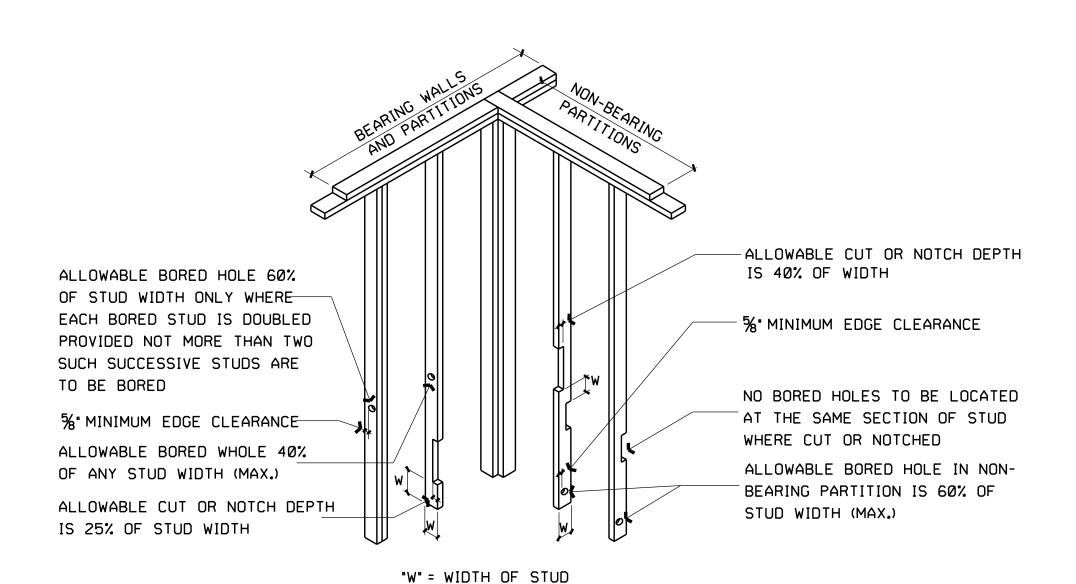
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P.O. BOX 1181

ROSEVILLE, CA 95678
(916) 783-6822

LOREN/NORM



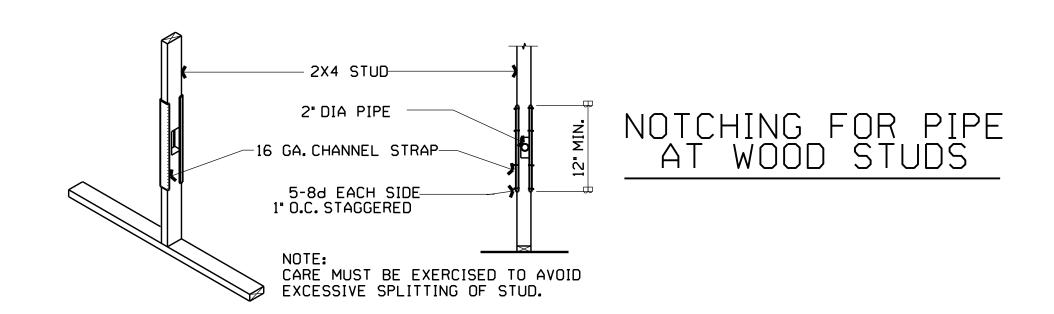


NOTE: BORED HOLES SHALL NOT BE LOCATED IN THE SAME SECTION OF STUD AS A CUT OR NOTCH

WATER HEATER SEISMIC ANCHORAGE

	STUD WIDTH		NOTCHING BEARING NON-BEARING		BORING BEARING NON-BEARING	
SIZE	NOMINAL	ACTUAL	25%	40%	40%	60%
2X4	4"	3½"	%•	17/16	17/16	21/8"
2X6	6"	5½"	1%"	23/16	23/16	35/16

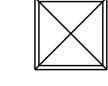
SINGLE FAMILY RESIDENTIAL CONSTRUCTION



PLUMBING LEGEND



WATER CLOSET



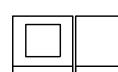
SHOWER







WATER HEATER (SPECIFY SIZE)



N.T.S.

WASHER & DRYER (VENT TO OUTSIDE)



HOT WATER- (SPECIFY SIZE)

(SPECIFY SIZE)

HOSE BIB

COLD WATER- (SPECIFY SIZE)

WASTE (SPECIFY SIZE)

(SPECIFY SIZE)

ALL PIPE MUST BE WRAPPED OVER 600 FT ELEVATION.

ALL "IN-SLAB" COPPER SHOULD BE SHIELDED @ LEAST 3' BEFORE PENETRATING SLAB. CONSULT BLDG. DEPT.

ELECTRICAL LEGEND

110 OUTLET

220 OUTLET

110 HALF HOT OUTLET

WALL LIGHT

CEILING LIGHT

RECESSED CANISTER LIGHT

EXHAUST FAN

FAN & LIGHT COMBO

FLUORESCENT LIGHT

(2) TUBED FLUORESCENT LIGHT

SMOKE DETECTOR MAIN SERVICE SPECIFY AMPS

DOOR BELL DOOR BELL CHIMES chimes

T.V. OUTLET

PHONE JACK

3 WAY SWITCH

SWITCH

4 WAY SWITCH

GROUND FAULT INTERRUPTER

GARAGE DOOR OPENER

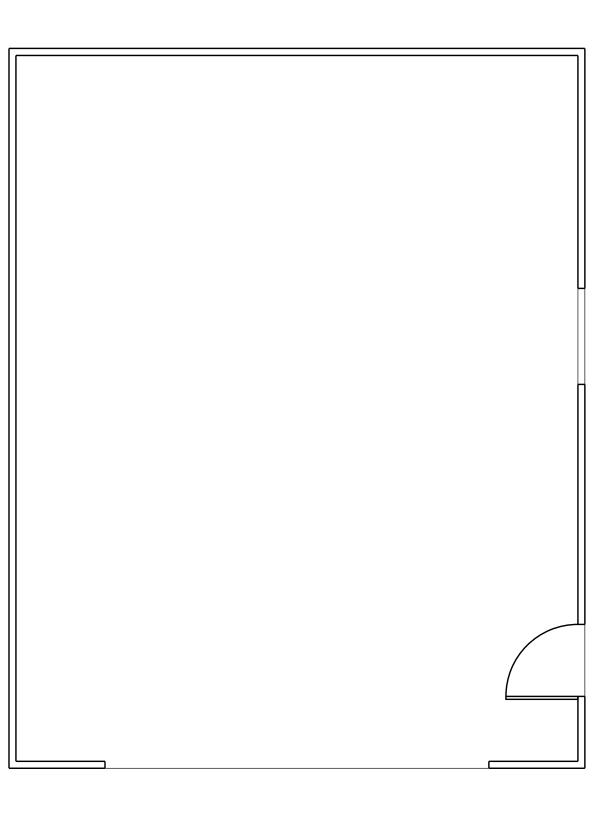
WATER PROOF

36" ABOVE FLOOR

42" ABOVE FLOOR

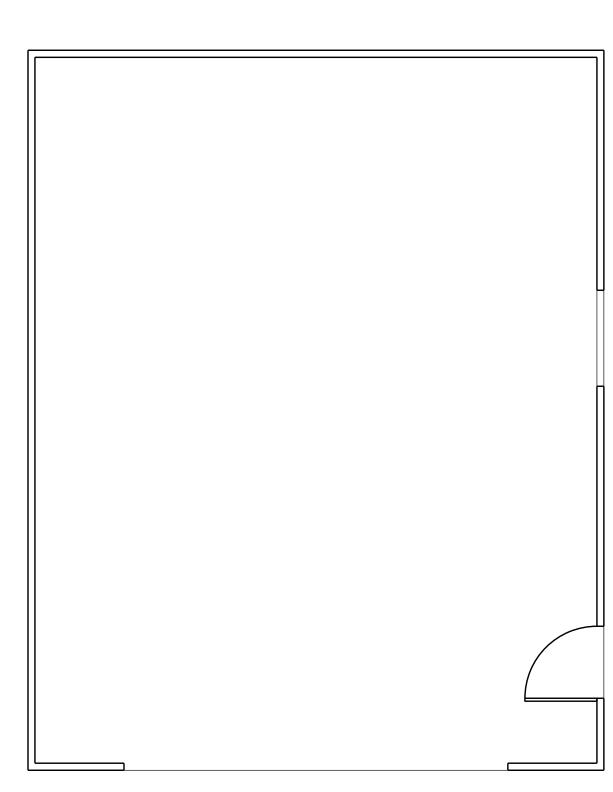
ALL ELECTRICAL BELOW 8'-0" IS TO BE IN METAL CONDUIT (EMT) OR COVERED WITH ½" GYPSUM WALLBOARD.CONSULT BUILDING DEPARTMENT.

THE ELECTRICAL PANEL MAY NOT BE LOCATED WITHIN A SHEAR WALL. IF THE ELECTRICAL PANEL IS TO BE POSITIONED WITHIN A SHEAR WALL, ENGINEERING CALCULATIONS AND DETAILS MUST BE PROVIDED.



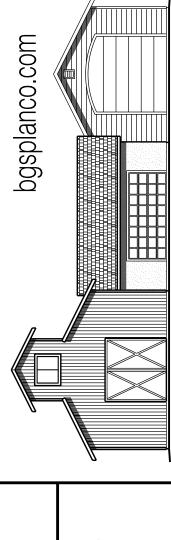
PLUMBING FLOOR PLAN

¹/4"=1'-0"



ELECTRICAL FLOOR PLAN

1/4"=1'-0"



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247 LOREN/NORM

PLAN NUMBER

of 5