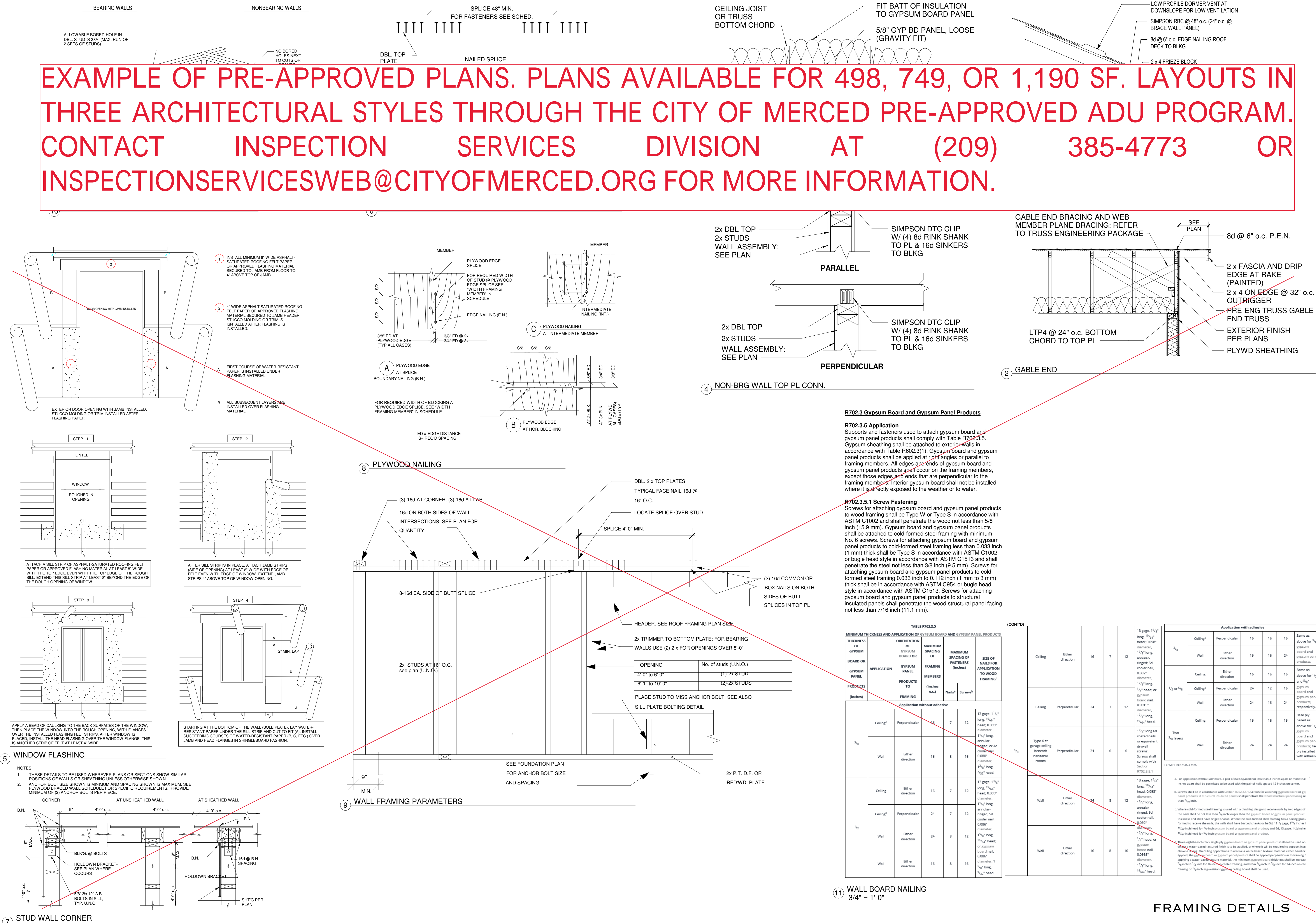


EXAMPLE OF PRE-APPROVED PLANS. PLANS AVAILABLE FOR 498, 749, OR 1,190 SF. LAYOUTS IN THREE ARCHITECTURAL STYLES THROUGH THE CITY OF MERCED PRE-APPROVED ADU PROGRAM. CONTACT INSPECTION SERVICES DIVISION AT (209) 385-4773 OR INSPECTIONSERVICESWEB@CITYOFMERCED.ORG FOR MORE INFORMATION.



R702.3 Gypsum Board and Gypsum Panel Products

R702.3.5 Application

Supports and fasteners used to attach gypsum board and gypsum panel products shall comply with Table R702.3.5. Gypsum sheathing shall be attached to exterior walls in accordance with Table R602.3(1). Gypsum board and gypsum panel products shall be applied at right angles or parallel to framing members. All edges and ends of gypsum board and gypsum panel products shall occur on the framing members, except those edges and ends that are perpendicular to the framing members. Interior gypsum board shall not be installed where it is directly exposed to the weather or to water.

R702.3.5.1 Screw Fastening

Screws for attaching gypsum board and gypsum panel products to wood framing shall be Type W or Type S in accordance with ASTM C1002 and shall penetrate the wood not less than 5/8 inch (15.9 mm). Gypsum board and gypsum panel products shall be attached to cold-formed steel framing with minimum No. 6 screws. Screws for attaching gypsum board and gypsum panel products to cold-formed steel framing less than 0.033 inch (1 mm) thick shall be Type S in accordance with ASTM C1002 or bugle head style in accordance with ASTM C1513 and shall penetrate the steel not less than 3/8 inch (9.5 mm). Screws for attaching gypsum board and gypsum panel products to cold-formed steel framing 0.033 inch to 0.112 inch (1 mm to 3 mm) thick shall be in accordance with ASTM C954 or bugle head style in accordance with ASTM C1513. Screws for attaching gypsum board and gypsum panel products to structural insulated panels shall penetrate the wood structural panel facing not less than 7/16 inch (11.1 mm).

TABLE R702.3.5

THICKNESS OF GYPSUM BOARD OR GYPSUM PANEL PRODUCTS (inches)	ORIENTATION OF GYPSUM BOARD OR GYPSUM PANEL PRODUCTS TO FRAMING	MAXIMUM SPACING OF FRAMING MEMBERS (inches o.c.)	MAXIMUM SPACING OF FASTENERS (inches)		SIZE OF NAILS FOR APPLICATION TO WOOD FRAMING ¹
			Nails ²	Screws ³	
Application without adhesive					
1/2	Ceiling ⁴	Perpendicular	16	7	12
	Wall	Either direction	16	8	16
3/8	Ceiling ⁴	Perpendicular	16	7	12
	Wall	Either direction	16	8	16
1/2	Ceiling ⁴	Perpendicular	24	7	12
	Wall	Either direction	24	8	12
1/2	Ceiling ⁴	Perpendicular	16	7	12
	Wall	Either direction	16	8	16

(CONT'D)

THICKNESS OF GYPSUM BOARD OR GYPSUM PANEL PRODUCTS (inches)	ORIENTATION OF GYPSUM BOARD OR GYPSUM PANEL PRODUCTS TO FRAMING	MAXIMUM SPACING OF FRAMING MEMBERS (inches o.c.)	MAXIMUM SPACING OF FASTENERS (inches)		SIZE OF NAILS FOR APPLICATION TO WOOD FRAMING ¹
			Nails ²	Screws ³	
Application with adhesive					
3/8	Ceiling ⁴	Perpendicular	16	16	16
	Wall	Either direction	16	16	24
1/2 or 5/8	Ceiling ⁴	Perpendicular	16	16	16
	Wall	Either direction	24	12	16
Two 1/2 layers	Ceiling	Perpendicular	16	16	16
	Wall	Either direction	24	24	24

NOTES:
1. For application without adhesive, a pair of nails spaced not less than 2 inches apart or more than 12 inches apart shall be permitted to be used with the pair of nails spaced 12 inches apart on center.
2. Screws shall be in accordance with Section R702.3.5.1. Screws for attaching gypsum board or gypsum panel products to structural insulated panels shall penetrate the wood structural panel facing not less than 7/16 inch.
3. Where cold-formed steel framing is used with a blocking design to receive nails by two edges of the nails shall be not less than 7/8 inch longer than the gypsum board or gypsum panel product thickness and shall have single flanges. Where the cold-formed steel framing has a nailing groove formed to receive the nails, the nails shall have single flanges or be 5d, 10d gage, 1 1/2 inches diameter, 1 1/2 inch head for 1/2 inch gypsum board or gypsum panel products, and 6d, 13 gage, 1 1/2 inch diameter, 1 1/2 inch head for 3/8 inch gypsum board or gypsum panel products.
4. Three eighth inch thick single ply gypsum board or gypsum panel products shall not be used on exterior walls unless they are protected from weather. Where a water based sealant material, either hand or applied, is used on gypsum panel products, the sealant shall be applied perpendicular to the nailing. Applying a water based sealant material, the minimum gypsum board thickness shall be 1/2 inch to 5/8 inch for 16 inch o.c. ceiling framing, and from 3/8 inch to 1/2 inch for 24 inch o.c. framing. 1/2 inch thick resilient channel ceiling board shall be used.

1190 RESEDA

CITY OF MERCED ACCESSORY DWELLING UNIT PROGRAM

No.	DATE	DESCRIPTION
A	5/11/2022	SITE PLAN REVIEW
B	6/13/2022	SITE PLAN REVIEW
C	8/31/2022	DRAFT RELEASE
D	9/29/2022	DRAFT RELEASE
E		
F		
G		

Project Number
2210.2

A5.2

set date:
9/29/2022