CITY OF SANTA ANA

BUILDING PERMIT WORKSHEET

PLEASE PRINT	0mg of x on the \$2 d and	, to 1011	Tienno.	1/14/09 for	ms/Bldg.App.Workshe
PROJECT ADDRESS: 2139	Pouselle st	. SUITE:		SAPIN#	
USE OF BUILDING: DESIDEN	TIAL COMMERCIAL	INDUSTRIAL	OTHER	MASTER ID#	
NATURE OF WORK: NEW A	DD ALTER/T.I. DI	EMO REROOF	REPAIR	SIGN MIS	SC
NEW/ADDITION/ALTERATION: 1ST FL 2ND FL TOTAL OF OTHER FLS:	SF RES. REMODENCE SF ALTER/T.I.: tial projects see reverse si	DEL:	SF BLD SF PRO SF n):	G. HEIGHT: POSED USE:	244
DI III DING OMNED'S MAME			p	HONE NO:	
DOILDING OWNER O IVAIVE.	UILLERMO RO	2545	4 47	<u> </u>	<u>+ . 4059</u>
ADDRESS: 2139 Rous	uluermo Ro ellest.	CITY:	The second secon	TAJE,	ZIP: 12797
TENANT'S NAME (Comm/Ind):	<u></u>		************************	HONE NO:	
CONTRACTOR'S NAME:		STATE CONTR. #:	L	ICENSE CLASS:	PHONE NO:
ADDRESS:		CITY:	s	TATE:	ZIP:
WORKERS COMP. POLICY#:	EXP. DATE:	INSURANCE COMF	PANY: S	ANTA ANA BUS. L	.lC. #:
ARCHITECT/ENGINEER:		STATE LICENSE #:	Р	HONE NO:	
ADDRESS:		CITY:	s	TATE:	ZIP:
CONTACT NAME:	EU HAGE	PHONE	NO: 714	/ 285·11	21
E-MAIL ADDRESS:		FAX NO	•		
OFFICE USE ONLY: ACC OR S	RECEIPT#	HRS PER	₹ ;	DG. FEE \$	424
YPE OF CONSTR:	VALUATION: \$		() sı	JBMITTAL DATE	
IRE SPKR: YES / NO A/C: YES	/ NO FLOOD ZONE:_		PF	ROCESSED	
ES. DEV. FEE: YES / NO PRIO	R DWELLING UNIT: YES / I	NO COMMENTS:			***************************************
LANNING OK TO CHECK & DATE-		BLDG. DEPT. AF	PROVAL & DA	TE	
LNG CONDITIONS:					

CITY OF SANTA ANA PLAN CHECK - CHECKLIST

	PLAN CHECK - CHECKLIST
JOB ADD	RESS: 1391 9 ROUSSPILE
TRACKIN	G#:\C\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	FOR PLANCHECK STATUS CALL (714) 647-5800
PLEASE	NITIAL EACH ITEM BELOW
<u> </u>	I agree to pay a plancheck fee established for this project with the understanding that this payment is not a guarantee that a permit will be issued and that this fee is not refundable once a plancheck has commenced.
<u> 144.2</u>	I understand that I may request an "Accelerated Plancheck" at an additional cost to me. This plancheck will be performed by an in-house plan checker with the intention of reducing plancheck time for the Building & Safety Division.
443.	I understand that the project valuation (from which plancheck and permit fees are calculated) will be reviewed during the plancheck process and that said valuation shall be adjusted up or down in accordance with established fee computation regulations.
244.4	I understand that I shall submit separate plans, applications and plancheck fees for the following when plan check is required:
	 a. Electrical Plans - 2 complete sets b. Plumbing Plans - 3 complete sets d. Grading Plans - 3 complete sets
5.	I understand that I shall visit the Public Works Department to verify whether a field inspection of the property is required. I understand that prior to the issuance of the Building permit I am required to obtain Public Works Agency approval if my project valuation exceeds \$30,000 or has added plumbing fixtures, or added bedrooms, or exceeds 500 sq.ft.
AGREED	O BY APPLICANT OR AGENT
Applicant's	Signature August March
Print Name	AVACELI HACIEL Address 2019 WALCONG
Telephone	Number 21-4/205-12 Fax 327-200, 5
FOR OFFI	E USE ONLY: "Checklist of items discussed" APPROVALS & FEES REQUIRED: Y/N
2 Public 3 Fire D 4 Police 5 School	Department 10_List-of Subcontr. 17_Microfilming

Form 58: 3-26-04

PERMIT TECHNICIAN

FEE CHECKLIST WORKSHEET

Received by:		SAPIN#:_	713527
	FEE TYPE	<u>REQUIRED</u> Yes _No	
	Plan Check Fee Disability Fee SMIP Fee Res. Dev. Fee Fire Facility Fee School Distr. Fee		
	Microfilm FCWP Surcharge		7P/129
COST/SQ F	CALCULATI T X TOTAL		VALUATION
1903/19/1 1903/19/1	(中) = (中) =	187,0 14,5	5
emo(e)) onpe(v	N17469	i padiblion
Counter computations/v	raluation \$		
	2/14/12 2/14/12) (S	5,000) \ 6,000
Plan checker computation	on/final valuation \$		



Planning & Building Agency Building Safety Division 20 Civic Center Plaza P.O. Box 1988 (M-19) Santa Ana, CA 92702 (714) 647-5800 www.santa-ana.org

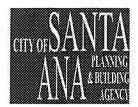
RESIDENTIAL PLAN CHECK COMMENTS

PLAN CHECK	NO:		10173327					
PROJECT ADI	or or other co.	*	2139 S R	ousselle St				
PLAN CHECK		R:	Ahangian	, Kathy	TEL:	714	647-5812	
					FAX:	714	647-5897	
TYPE OF CON	STRUCTI	ON:		VB				
OCCUPANCY	CLASSIF	ICATI	ION(S):	R-3, U				
PLAN CHECK					REM	ARKS/	RECHECK ITEMS:	
APPLICATION		9/29/2	2011					
INITIAL REVIE	YPLICATION 12/		2011		X			
EXPIRATION		3/27/2	2012					
RECHECKS:	1.				PRO	JECT /	APPLICANT CONTACT PERSON:	
	2.				Arac	eli Mac	iel	
	3.	*************			TEL:		(714)285-1121	
					FAX:			
VALUATION:	\$43,130	.00			EMA	IL:		
FLOOD ZONE	: X-06023	32027	'8J					

Note: Numbers in parenthesis (unless otherwise noted) refer to code sections of the 2010 California Residential Code (CRC); 2010 California Building Code (CBC); CMC = 2010 California Mechanical Code; CPC = 2010 California Plumbing Code; CEC = 2010 California Electrical Code; T = Table; ICC = International Code Council.

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- Please indicate the sheet number and detail to the right of each correction, or note the number on the plans where the correction is made. Resubmit marked original, calculations and this correction sheet. A separate sheet for response may be used.
- 3. Resubmit 3 corrected sets of plans.
- 4. Meetings between the project applicant/designer and the plan reviewer shall be by appointment only. Please call (714) 647-5812 for an appointment.

- 5. The drawings/information submitted for Building Safety Division review is incomplete. The applicant shall, prior to resubmitting, complete all construction documents to show compliance with the 2010 California Building Standards Code with local amendments and to clearly indicate the scope of work under this building permit application. There may be additional requirements when complete construction drawings and supporting data is submitted for Building Safety Division review.
- Please see corrections on submitted plans. Red marked set must be returned with revised plans.
 Plans resubmitted without the red markup set may result in delayed review time and additional plan check fees.
- 7. All drawings and supporting documents shall be prepared, stamped, and signed by a California licensed architect or registered professional engineer. (CRC R301.1.3, CBC 107.1 and 107.3.4.1).
- 8. All persons preparing plans for others shall sign those plans. Business and Professions Code Chapter 3, Division 3, Section 5536.1 (a).
- This review does not include mechanical, plumbing or electrical work. Separate plans, applications, fees, plan checks, and permits are required for mechanical, plumbing, and electrical work. Call 647-5800 for information.
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 - Public Works Agency approval (647-5039).
 - Proof of Worker's Compensation Insurance shall be required at the time of permit issuance.
- 11. Show 30-inch clear width for water closet compartments and 24-inch clearance in front of a water closet.
- 12. Note on plans that "Field-cutting ends, notches and drilled holes of preservative-treated wood shall be treated in the field in accordance with AWPA M4". (CRC R317-1.1)



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PLAN CHECK	NO:		10173327	•			
PROJECT ADDRESS:		2139 S R	ousselle St		: ·		
PLAN CHECK	ENGINE	ER:	Ahangian	, Kathy	TEL: 7	714	647-5812
		**			FAX: 7	714	647-5897
TYPE OF CON	STRUCT	TION:		VB			
OCCUPANCY	CLASSII	FICAT	ION(S):	R-3, U			
PLAN CHECK APPLICATION	DATES:	9/29/2	2011		REMA	RKS/	RECHECK ITEMS:
INITIAL REVIE	w:	12/7/2	2011		***************************************		
EXPIRATION	**	3/27/2	2012			•••••	
RECHECKS:	1.				PROJI	ECT A	APPLICANT CONTACT PERSON:
900 t 100,000 100,00 8	2.		().		Aracel	1.0000000000000000000000000000000000000	
·	3.				TEL:	(714)285-1121
VALUATION:	\$43,13	0.00			FAX: EMAIL		
FLOOD ZONE:	X-0602	32027	8J				

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RESIDENTIAL PLAN CHECK COMMENTS

PLAN CHECK	NO:	10173327				#
PROJECT ADD		2139 S Ro	usselle St			
PLAN CHECK	ENGINEER:	Ahangian,	Kathy	TEL:	714	647-5812
				FAX:	714	647-5897
TYPE OF CON	STRUCTION:		VB			
OCCUPANCY	CLASSIFICATI	ION(S):	R-3, U		***************************************	
PLAN CHECK APPLICATION	DATES: 9/29/2	2011		REM	ARKS/	RECHECK ITEMS:
INITIAL REVIE	W 12/7/2	2011	·····	•	***************	
EXPIRATION	3/27/2	2012		***************************************		
RECHECKS:	1	2	٩		JECT A	APPLICANT CONTACT PERSON:
3.* 	3.			That,	(714)285-1121
VALUATION:	\$43,130.00			FAX: EMAI	L.	
FLOOD ZONE:	X-060232027	8J	::			

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V NOPED AT SH 5-1 ON DEPAIL 3/5-1

OGI DESIGNS

8191 Kingsdale Drive Huntington Beach, Ca. 92646 (714) 904-4823

Ignacio G. Ochoa, P.E.

RCE #35217 Exp. 9/30/13

PROJECT: Rosas Addition

2139 Rousselle Street

Santa Ana, CA

CRITERIA: CALIFORNIA BUILDING CODE (CBC) 2010

MATERIALS: EXCEPT AS NOTED OTHERWISE

CONCRETE......2500 PSI @ 28 DAYS

FOUNDATION SOIL......1500 PSF

CONCRETE BLOCK......GRADE N, MED.WT UNITS (ASTM C-90)

BRICK..... PER ASTM C-62, MW GRADE

REINFORCED STEEL......20,000 PSI (ASTM A-615, GRADE 40)

STRUCTURAL STEEL......24,000 PSI (ASTM A 36, COMP.) AISC 1997 ED.

WELDING.....ELECT ARC PROCESS BY CERT. WELDERS

STRUCTURAL PIPE......35,000 PSI (ASTM A-53) GRADE B PLYWOOD SHEATHING......DOUG. FIR, STRUC 1, INTR.,P.S. 1-76

GLUE LM BEAMS......2400PSI (DF COMB F24)

LUMBER.....GRADE MARK DF PER WCLB GRDG RULE 16

SOIL PRESSURE......1500 PSF

DESIGN REFERENCES:

CONCRETE......ACI DESIGN HANDBOOK

CONCRETE BLOCK......CONC. MASN. DESIGN MANUAL, CMA STEEL.....MANUAL OF STEEL CONSTRUCTION, AISC

LUMBER.....WOOD STRUCT. DESIGN MANUAL, CMA

ALL WOOD DOUGLAS FIR LARCH 19% MAX. MOIST. CONTENT. (#2/#1)

	Fv	Fb	Ex10*6		$\mathbf{F}\mathbf{v}$	Fb	Ex10*6
2x4	95	1315/1510	1.6	4x6	95	1140/1300	1.6
2x6	95	1140/1310	1.6	4x8	95	1140/1300	1.6
2x8	95	1055/1210	1.6	4x10	95	1050/1200	1.6
2x10	95	965/1105	1.6	4x12	95	965/1100	1.6
2x12	95	865/1005	1.6	4x14	95	875/1000	1.6
2x14	95	790/905	1.6	4x16	95	875/1000	1.6
6x10/12	85	1350/1600	1.6	Parallam	290	2900	2.0
GLB	265	2400	1.8	PSL			
Microlm Ivl	285	2600	2.0				

Root: Assibalt Shirolike 2:3 pot from the state of the st

....

Roof Henreels

2 X & 3 16 " Y=

2×8 2 /6 1/2

Carlos Josefs & (E) Pard L=8'-0"

N=26 PH

N=26

2 X S. S. 16 " Yan

4×8

₹×¢

@ Linn temt woll

If for chie 120% Lmax=5-0

If for chie 120% Lmax=5-0

S= 450)=64 tit

H=64(5)=126 2 2 2 2 0 11 4

S=21 2400/1140=21 113

A=155(64) 92/95=21511

4×4

Flush & some @ (E) Entro/Parch (BM-1) L=3" (BM-1) //2 = 368 bit M=363(6) 72/8=35328 fit M=363(6) 72/8=35328 fit M=563(6) 72/8=35328 fit M=15(763) 8/2 /95=2-3.4 112

84-1 4 X lo

Diog 3000-0(h) Found BM-2 L=12 S=368+23(17/2)=666, pil M=606 (12) - /8 = 10908 + 1 E/2 /1/2 606 (12/2)= 5636 + E/2 /1/2 606 (12/2)= 5636 + E/2 /1/2 606 (12/2)= 5636 + VL = 8035 + > 3636 + BM-z 3½×11% 456 z.o E

Polo BN-3 P= 25774 L= (2577/1000)" 12=19.3"

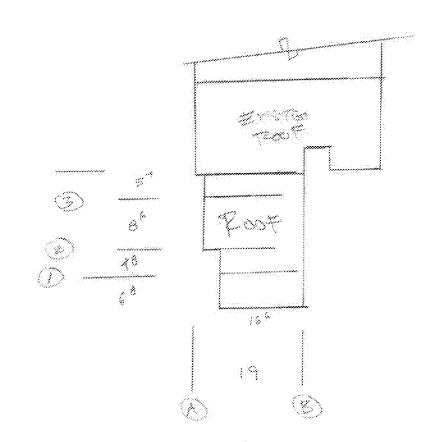
24 40 X 18 0 2 - 4 4 EW 3 R.

(e) ant forth

LATEIZAL BHALYSIS :

Saismic:

: Lash



VKRUS = 0,20(16.5(8+8)+2(8)16)(667+#2) = 937* WALL () Yw = 20 (4+3) (6.67+4.67/2) = 1261+ (6015) L() - 4° NO= 1261/4=315 ply 8TH = 10086 = Tah-10241 uply = 2265# Vals=937+02 (19(818)) +2(06)(8.5/2)=1413 # VW=1261+26(4+3) 8.5/2 = 1856 * (600+) WAL ® L - - + 18 NOD = 1856/467=397 PH OTH = 14848 " TEM = 1396 " Joly = 2080" $\sqrt{30.05} = 47640.20(20(8+8)+2(8)/4)5.6 = 1083$ W LING NJ = 5954 20(443) 5.8 = 1379 * L8 = 5° No=1379/6=276 plf. * oplif=1886# Vsus= 0.20(25.5 (8+2)+2(8)16)13/2=1262# MALLE BY B

1.5

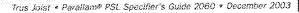
<u>/13</u> HD J 2.

LB=8°+4°=12°

NB=1350/12=110 Sit 1/24" Jpyf=631#

OTH=35+1 " RM=1/24" Jpyf=631#

	SHEAR WALL SCHEDULE 2009 I.B.C & .	2010 C.E	C.B.C.			
			THS	BOL TING		
MARK	WALL TYPE	ALLOWABLE SHEAR	SHEAR © ONE SIDE OF WALL	SHEAR @ BOTH SIDES OF WALL	SILL NAILING 16d © UPPER STORIES	A35 SPACING
(B)	78" STUCCO OVER PAPER BACKED LATH W/16 GA STAPLES AT 6"O.C. AT TOP & BOTTOM PLATES, EDGE OF SHEAR WALL AND ON FIELD (ICC REPORT No. ESR-2595) NOTE 4 AND 10 BELOW.	80 PLF	5/8 *8 48'0C.	5/8 '® 24"0.C	@ 8"O.C.	© 32"0.C.
(6)	1%2" PLYWD STRUCT I OR STD SHTG WITH 8d NAILS @ 6"O.C. AT EDGES & 12" O.C. FIELD (TABLE 2306.3 2010 CBC, 2009 18C) NOTE 1, 10, 11 & 12 BELOW	280 PLF	5/8 °0 32°0.C.	5/8 "© 16"0.C.	@ 6"O.C.	@ 24"0.C.
(P)	18/22" PLYWD STRUCT I OR STD SHTG WITH 10d NAILS @ 6" O.C. AT EDGES & 12" O.C. FIELD (TABLE 2306.3 2010 CBC, 2009 IBC) NOTE 1, 6, 10, 11, 12 & 13 BELOW	350 PLF	5/8 "@ 24"0.C.	5/8 '@ 12 " 0.C.	@ 4,0 C	@ 16"O.C.
	1882" PLYWD STRUCT I OR STD SHTG WITH 8d NAILS @ 4"O.C. AT EDGES & 12" O.C. FIELD (TABLE 2306.3 2010 CBC, 2009 IBC) NOTE 1, 3, 5, 6, 8, 10, 11, 12 & 13 BELOW	430 PLF	5/8 "@ 16"0.C.	5/8 "@ 8"0.C.	@ 4"O.C.	Ø 16"0.C.
42	¹⁵ 52" PLYWD STRUCT I OR STD SHTG WITH 8d NAILS @ 3" O.C. AT EDGES & 12" O.C. FIELD (TABLE 2306.3 2010 CBC, 2009 IBC) NOTE 1, 3, 5, 6, 8, 10, 11, 12 & 13 BELOW	550 PLF	5/8 'ø 16 " 0.C.	5/8 "0 8"0.C.	⊕ 3″0.C.	æ 12"0.C.
\{\sum_{\substack}\}	1982" PLYWD STRUCT I OR STD SHTG WITH 8d NAILS @ 2" O.C. AT EDGES & 12" O.C. FIELD (TABLE 2306.3 2010 CBC, 2009 (BC) NOTE 1, 3, 5, 6, 8, 10, 11, 12 & 13 BELOW	730 PLF	5/8 °@12° 0.C.	5/8 `® 60.C.	@ 2"0.C.	@ 8.°O.C
⟨ ₹	1862" STRUCT I PLYWD WITH 10d NAILS @ 2" O.C. AT EDGES & 12" O.C. FIELD OVER 3X STUDS (TABLE 2306.3 2010 CBC, 2009 IBC) NOTE 1, 3, 5, 6, 8, 10, 11, 12 & 13 BELOW	870 PLF	3/4 "@ 12"0.C.	3/4 "@ 6"0.C.	N/A	@ 8.0.C
NOTES: 1. ALL ED BLOCKED 9 & 10,	₩ ₩ ~ ~ ~ 		9. ALL INTERIOR SHOT PINS AT 33 SR-2269 (HLTI), RED-HEAD).	9. ALL INTERIOR NON BEARING FOOTINGS TO HAVE 32" SHOT PINS AT 32" O.C. & 48"O.C RESPECTIVELY. ICC# SR-2269 (HILTI), OR ICC# ESR-1663 (RAMSET/ RED-HEAD).	OOTINGS TO H C RESPECTIVEL 1663 (RAMSET	AVE 752" Y. ICC# E
12, 13, 00 14, 2 1	WALL AND NAIL SPACING IS LESS THAN 6 "O.C ON EITHER SIDE. PANEL JOINTS SHALL BE OFFSET TO FA		SE 3" × 3"	10. USE 3" X 3" X 0.229" PLATE WASHERS.	WASHERS.	•••••
TO BOTH BOLTS. (<u>LL</u>	: <u>.</u> .	SE CDX. CC 00D. ALL PI ES MAY RE	11. USE CDX. CC OR STD SHTG IN LIEU OF STRUCT II PLYWOOD. ALL PLYWOOD SHALL BE DOUGLAS FIR. OTHER SPECIES MAY REQUIRE CHANGES.	N LIEU OF STI BE DOUGLAS F	R. OTHER
3. USE . PLATES .	3. USE 3X PRESSURE TREATED DOUGLAS FIR SILL PLATES AT FOUNDATION (CONC. SLAB ON GRADE ONLY 10" A.B.'S @ 48"O.C. UNLESS OTHERWISE NOTED ON PLANS.		A EXISTING Y BOLTS PE ER ICC# ESI	12. AT EXISTING FOOTINGS USE SIMPSON "SET-XP" EPOXY BOLTS PER SCHEDULED SILL BOLTING, EMBEDED 8", PER ICC# ESR-2508 WITH SPECIAL INSPECTION.	SIMPSON "SET- SILL BOLTING, I PECIAL INSPEC	.xp" .wbeded non.
4. PAPEI	4. PAPER BACKED SELF FURRING EXPANDED METAL 8. AT 3x SILL PLATE USE (2) 20d BOX END NAILS AT STUD TO SILL PLATE CONNECTION IN LIEU OF (2) 16d NAILS PER LINE 8 OF TABLE 2304.9.1 (ALT: PROVIDE SIMP, A34 AT SILL TO STUD)	13. P SHEA 10. 4	13 PERIODIC SPE SHEAR WALLS W TO 4" O.C.	13. PERIODIC SPECIAL INSPECTION REQUIRED ON WOOD SHEAR WALLS WITH NAIL SPACING LESS THAN OR EQUAL TO 4" O.C.	N REQUIRED O G LESS THAN	N WOOD OR EQUAL
••••					***************************************	



2.0E Parallam® PSL Headers and Beams Allowable Design Stresses (100% Load Duration)

Shear modulus of elasticity G = 125,000 psi

Modulus of elasticity E = 2.0 x 106 psi

Flexural stress Fb = 2,900 psi(1)

Tension stress $F_t = 2,025(2)$ psi

Compression perpendicular to grain $F_{c.l.} = 750 \text{ psi}^{(3)}$

Compression parallel to grain F_{cll} = 2,900 psi

Horizontal shear parallel to grain $F_{v} = 290$ psi

- (1) For 12" depth. For others, multiply by $\left[\frac{12}{6}\right]^{0.111}$
- (2) F_t has been reduced to reflect the volume effects of length, width, and thickness for a range of common application conditions.
- (3) F_{c.L} shall not be increased for duration of load.

Allowable Design Properties (100% Load Duration)

134" 2.0E Parallam® PSL

		Depth.		
Committee to	91,000	3344	11.6	14
Afterward (19-Jb)	6,210 6,530	8,985	9,950	13,580
	3,130 3,215	3,805	4,020	4,735
Allonias of the collection	115 125	208	244	400
West Mills	5.1 5.2	6.2	6.5	7.7

211/16" 2.0E Parallam® PSL

				Depth			
A second second second	79.7	91,3	311.0	317.6	137	16	18*
Monent (fr.lls)	9,535	10,025	13,800	15,280	20,855	26,840	33,530
Steen Hall	4,805	4,935	5,845	6,170	7,275	8,315	9,350
Moment of locative (in 1)	175	192	319	375	615	917	1,305
Weight (pl)	7.8	8.0	9.5	10.0	11.8	13.4	15.1

31/2" 2.0E Parallam® PSL

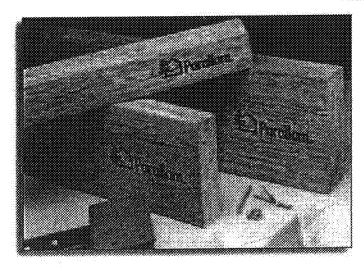
			Depth			
George Property	9	1825 1111	1100	140	16	18*
Moment (ft. Ibs)	12,415 1	3,055 17,97	0 19,900	27,160	34,955	43,665
70-00 II	6,260 6	,430 7,61	5 8,035	9,475	10,825	12,180
	231	250 415	488	800	1,195	1,701
Weightiget	10.1	10.4 12	13.0	15.3	17.5	19.7

51/4" 2.0E Parallam® PSL

				Depth			
	97.0	9.0	1194	11776*	14	16	18
Moment (ft. lbs)	18,625	19,585	26,955	29,855	40,740	52,430	
Ace (be)	9,390	9,645	11,420	12,055	14,210	16,240	18,270
Moment of Inertia (dt.)	346	375	623	733	1,201	1,792	2,552
Weight (plf)	15.2	15.6	18.5	19.5	23.0	26.3	29.5

7" 2.0E Parallam® PSL

				Depth			
De grander		911	1111.	117/0	14*	36*	18***
Monestation	24,830	26,115	35,940	39,805	54,325	69,905	87,325
Shear (II)	12,520	12,855	15,225	16,070	18,945	21,655	24,360
Moment of Inertia (ac 1)	462	500	831	977	1,601	2,389	3,402
Weight (elf)	20.2	20.8	24.6	26.0	30.6	35.0	39.4

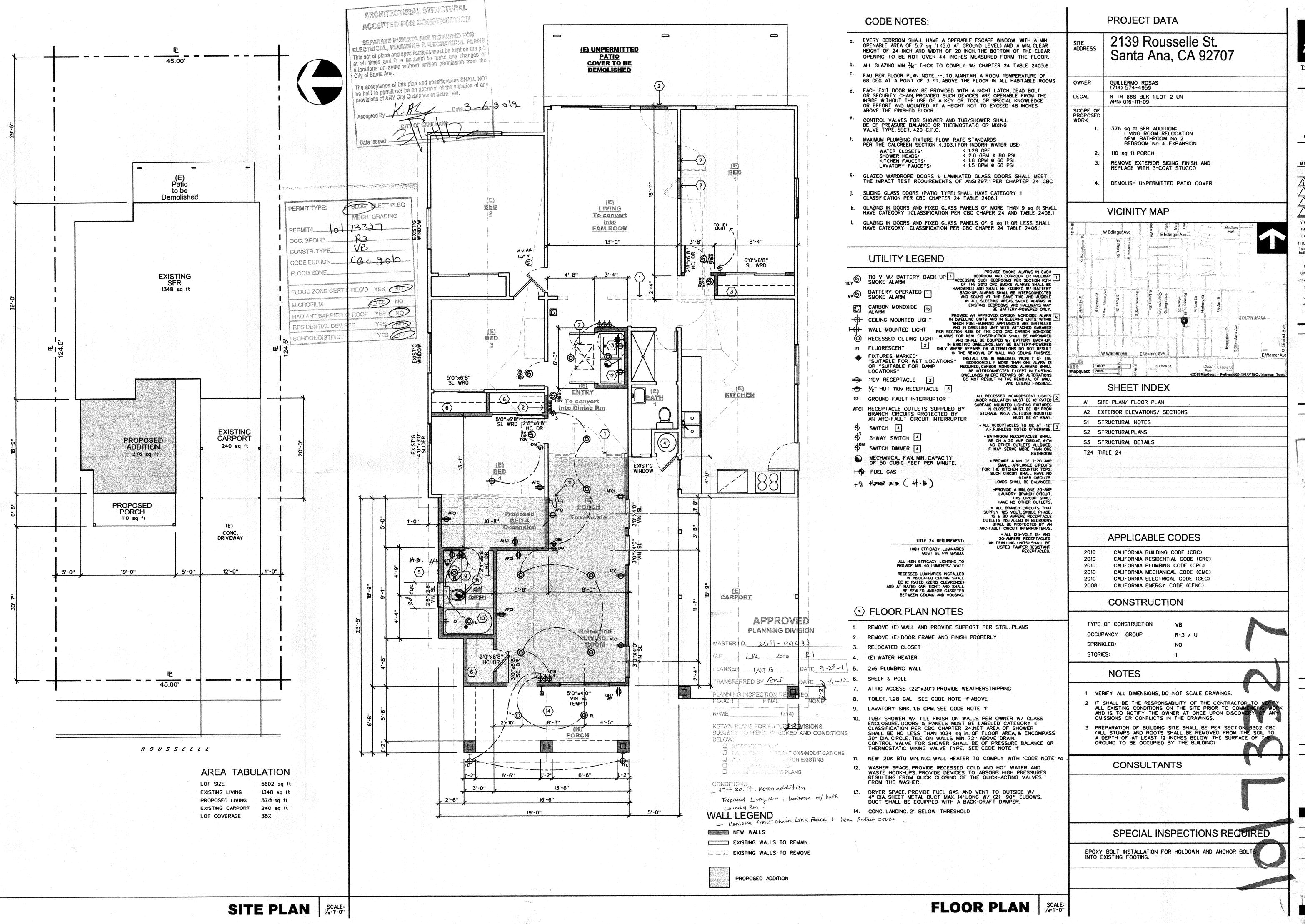


General Assumptions for Untreated Parallam® PSL

- Lateral support required at bearing and at 24" on-center maximum.
- Bearing lengths are based on Parallam® PSL's bearing stress of 750 psi.
- · No camber.
- Tables on pages 4-7 include load reductions applied in accordance with code.
- 13/4" x 16" and 13/4" x 18" beams require multiple plies.

See page 17 for multiple member beam connections.





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Revisions 3/1/12

This set of plans is sufficient to obtain a building permit; however, all materials and methods of construction necessary to complete the project are not necessarily described in this set of plans. The implementation of the plans requires a Owner/contractor (General Contractor and Subcontractors) thoroughly knowledgeable with the applicable building knowledgeable with the applicable building codes and methods of only locations, dimensions, types of materials and general methods of products or other methods of any specific material, product or method.

Plan prepare

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Sno j R 668 APN 39 SO

Guillermo Rosas

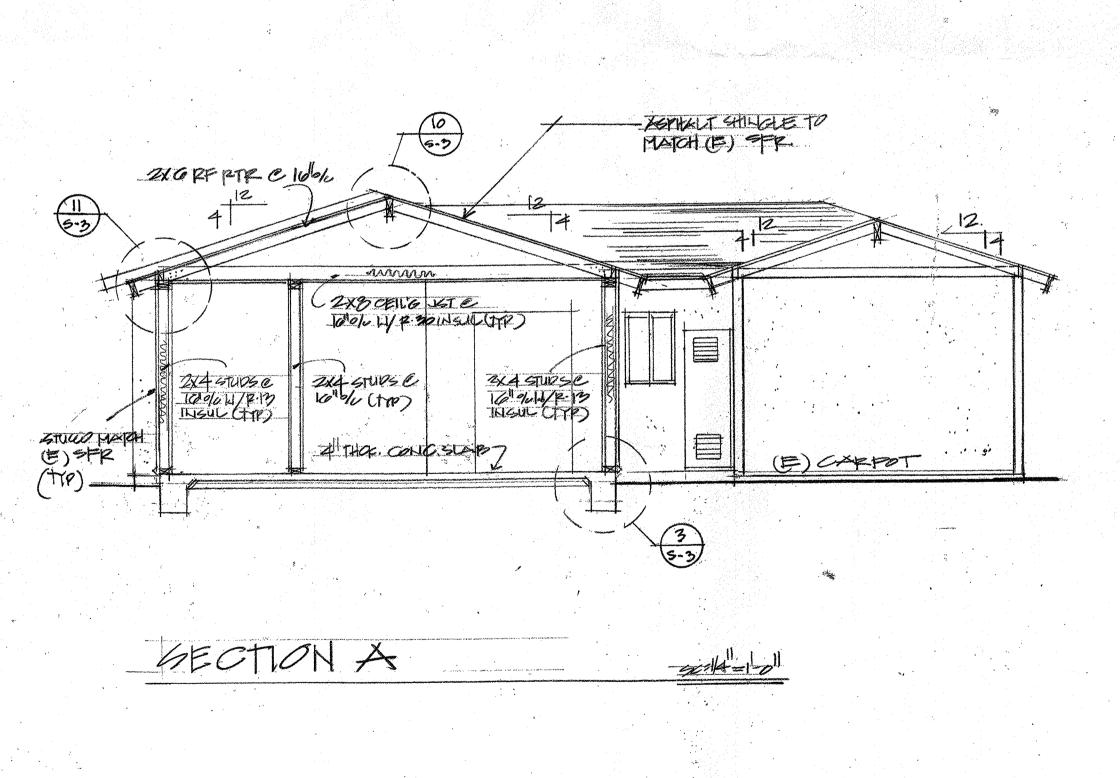
Sheet content: SITE PLAN

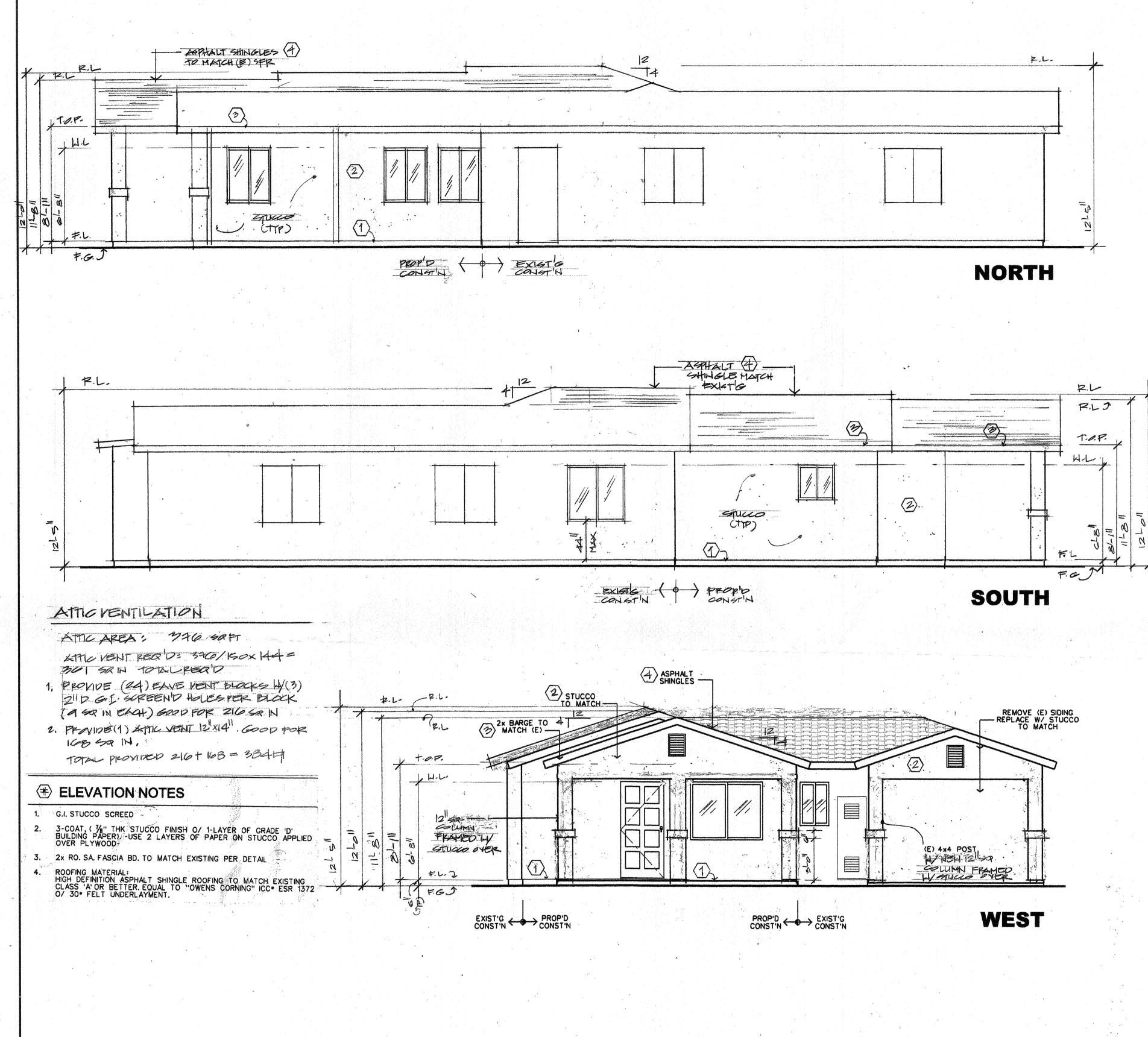
(714) 574-4959

FLOOR PLAN

May-20-2011

CHECKED: JOB NO: SHEET NUMBER:





PREPARED BY:

ANY ERRORS, OMISSION OR DISCREPANCIES OCCURRING WITHIN THESE DOCUMENTS REQUIRE IMMEDIATE WRITTEN NOTIFICATION TO THE DESIGNER, OWNER OR CONTRACTOR, PROPER INSTRUCTION SHALL BE ISSUED PRIOR TO PROCEEDING WITH ANY SUCH WORK

ROCEEDING WITH ANY SUCH WORK.

This set of plans is sufficient to obtain a building permit; however, all materials and methods of construction.

necessary to complete the project are not necessarily described in this set of plans. The implementation of the plans requires a Owner/contractor (General Contractor and Subcontractors) thoroughly nowledgeable with the applicable building codes and methods of construction. The plans and general notes delineate and describe only locations, dimensions, types of materials and general methods of assembling or fastening. They are not intended to specify particular products or other methods of any specific material, product or method.

Plan preparer:



Santa Ana, CA 92707
NTR 668 BLK 11-09
APN 016-111-09

Owner:

MR GUILLERMO

ROSSE

A14/574-4959

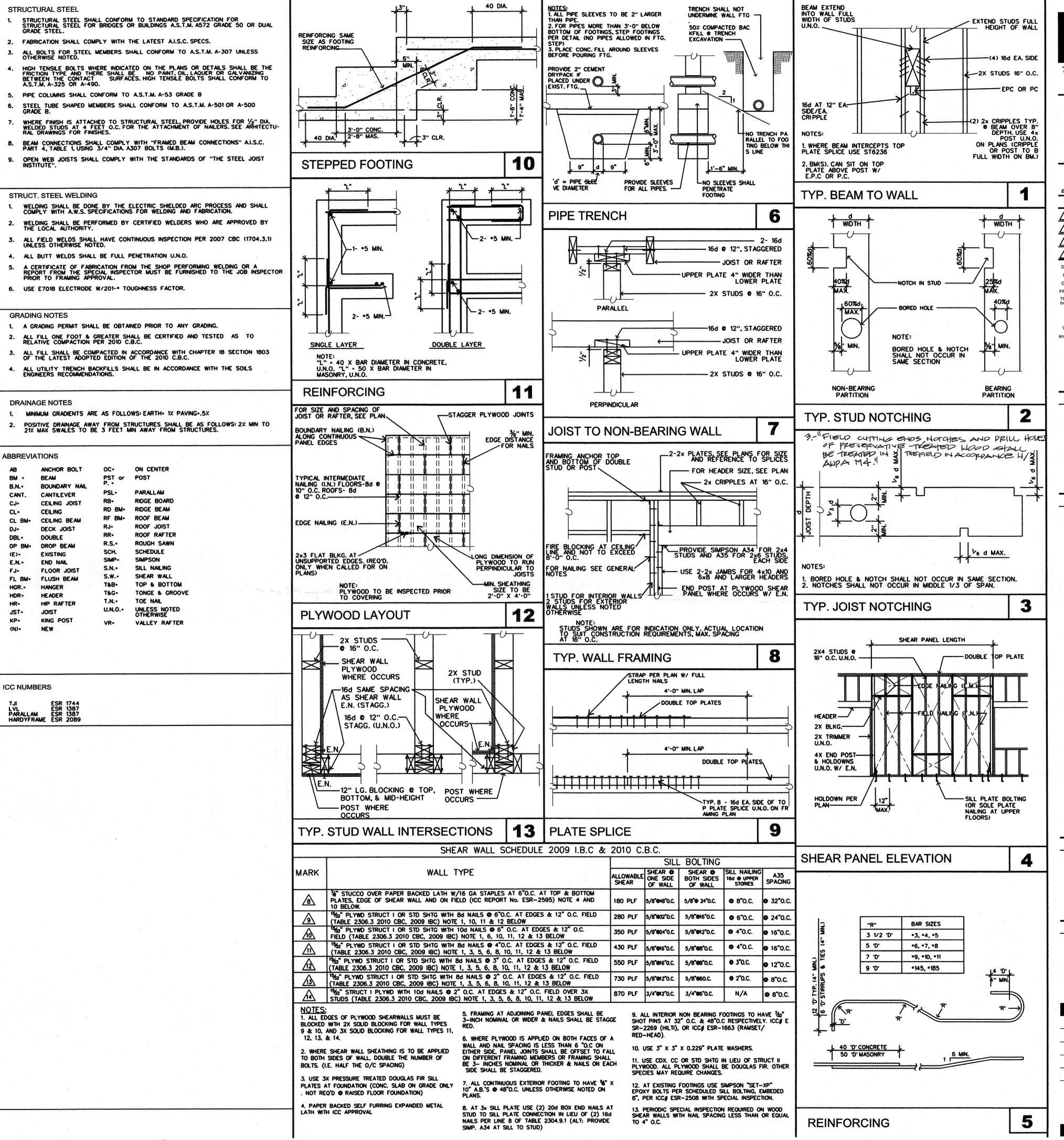
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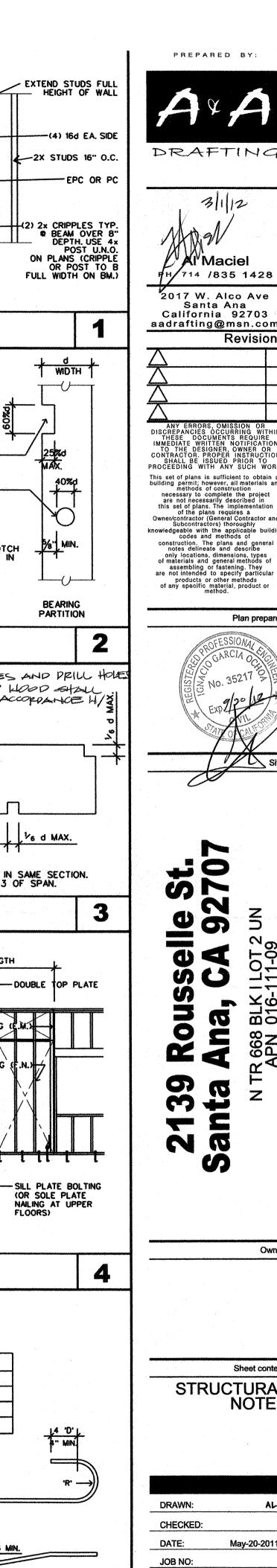
EXTERIOR
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SECTIONS

DRAWN: AL
CHECKED:
DATE: May-20-2011
JOB NO:

SHEET NUMBER:

GENERAL NOTES FRAMING SHALL COMPLY WITH CHAPTER 23 OF THE 2010 CBC THE PLANS SHALL BE REVIEWED FOR DIMENSIONAL & EXISTING SITE CONFORMANCE WITH THE PLANS BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE ARCHITECT & ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES. USE SIMPSON U-HANGERS ON ALL JOIST/BEAM/BEAM CONNECTIONS UNLESS NOTED ON PLANS. 2. ALL POSTS SHALL HAVE SIMPSON "PC" CONNECTORS AT TOP AND SIMPSON OR "BCO" CONNECTORS AT BASES UNLESS OTHERWISE NOTED ON PLANS. WORKING DIMENSIONS SHALL NOT BE SCALED FROM DRAWINGS 4. ITEMS IDENTIFIED BY TRADE NAMES MAY BE SUBSTITUTED BY APPROVED EQUALS. 3. ALL CONNECTING HARDWARE, JOIST HANGERS, TIE STRAPS ETC. SHALL B SIMPSON "STONG-TIE" UNLESS OTHERWISE NOTED OR SHOWN ON PLANS 5. NOTES & DETAILS ON DRAWINGS SHALL PRECEDE THESE GENERAL NOTES SIZE, SPACING & HEIGHT LIMITS FOR WOOD STUDS ARE AS FOLLOWS (UNLESS OTHERWISE NOTED ON PLANS): OTHERWISE NOTED ON PLANS): 2x4 @ 16"OC (BEARING WALL) SUPPORTING A MAXIMUM OF ONE FLOOR AND ONE ROOF SHALL HAVE A MAXIMUM HEIGHT OF 10 FEET 2x4 @ 16"OC (NON-BEARING WALL) SHALL HAVE A MAXIMUM HEIGHT OF 14 FEET 2x6 @ 16"OC (BEARING WALL) SUPPORTING A MAXIMUM OF TWO FLOORS AND A ROOF SHALL HAVE A MAXIMUM HEIGHT OF 10 FEET. 2x6 @ 16"OC (NON-BEARING WALL) MAXIMUM HEIGHT IS 20 FEET PROVIDE ANY SHORING & OR BRACING PRIOR TO REMOVING EXISTING WALLS, BEAMS OR SUPPORTS FOR CONSTRUCTION. REMOVE SHORING ONLY WHEN NEW SUPPORTS ARE IN PLACE AND SECURED. PROVIDE RED HEADS INTO EXISTING CONCRETE AT ALL SHEAR WALLS PER MFG. SPECIFICATIONS. SEE SHEAR WALL SCHEDULE FOR SIZE AND SPACING. RAKE WALLS AJDACENT TO SLOPED CEILINGS SHALL BE BALLOON FRAMED. DOUBL TOP PLATES SHALL ALWAYS BE SUPPPORTED BY A ROOF OR CEILING DIAPHRAM. PROVIDE SIMPSON ST-6224 BETWEEN NEW WALLS AND EXISTING WALLS AT THE DOUBLE TOP PLATE. SHEAR WALL PANELS MUST BE CONTINUOUS TO THE TOP PLT. AT ROOF FRAMING. SHEATHING SHALL HAVE ALL EDGES BLOCKED & THE APPROPRIATE SHEAR TRANSFER THRU CEILING OR SOFFIT FRAMING. 4. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON DRAWINGS AND PROTECT THEM FROM DAMAGE. BORING AND NOTCHING OF WALL STUDS SHALL BE PER 2010 C.B.C. (2308.9.10 &.11) NOTCHING MAXIMIUM: 25% OF WIDTH ON BEARING WALLS 40% OF WIDTH ON NON-BEARING WALLS BORING MAXIMUM: 40% OF WIDTH ON BEARING WALLS 60% OF WIDTH ON NON-BEARING WALLS. NOTE: A MIN %"CLEARANCE FROM EDGE OF STUD TO HOLE SHALL BE PROVIDED. 5. DO NOT CUT POST TENSION SLABS, CONTRACTOR TO DETERMINE EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS FOR FOOTINGS, BEAMS AND JOISTS, SIZES LOCATIONS ETC. AND SHALL NOTIFY THE ARCHITECT & ENGINEER OF ANY DISCREPANCIES. 7. DOWEL NEW INTO EXISTING SLABS W/*4 REBAR @ 24" O.C. AND FOOTINGS W/DOWELS TO MATCH NEW REINF. SIZE/LOCATION. 6. WALL BRACING SHALL BE PROVIDED PER 2010 C.B.C. (2308.9.3) PROVIDE 1x6 LET-IN BRACING (@ APPROX. 45 DEGREES) EVERY 25'IN ALL STUD WALL NOT SHEATHED. BRACES TO RUN CONTINUOUS FROM TOP PLATE TO SILL PLATE. FLOOR SHEATHING (MIN) 1/4" STRUCTURAL IT & G PLYWOOD PANEL INDEX NO. 32/6 WITH EXTERIOR GLUE. USE 10d NAILS AT 6"OC AT ALL EDGES, BOUNDARIES, SHEARWALLS & 10"OC FIELD. NO BLOCKING IS REQUIRED UNLESS NOTED ON PLAN. ALL EDGES BLOCKED AT DECKS. SLABS ON GRADE HAVE NOT BEEN DESIGNED BY THE STRUCTURAL 2. THE VIBRATIONAL EFFECTS OF MECHANICAL EQUIPMENT HAVE NOT BEEN CONSIDERED BY THE STRUCTURAL ENGINEER. 2. PROVIDE DOUBLE FLOOR JOISTS UNDER ALL PARALLEL NON-BEARING PARTITIONS THE DESIGN, ADEQUACY AND SAFETY OF ERECTION, BRACING SHORING, TEMPORARY SUPPORTS ETC., IS THE SOLE RESPONSIBLITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE STRUCTURAL ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING THE ENTIRE COURSE OF CONSTRUCTION. THE ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR FIELD INSPECTION/OBSERVATION OF THE ABOVE ITEMS. PROVIDE CONTINUOUS BLOCKING BETWEEN FLOOR JOISTS UNDER BEARING WALLS WHICH ARE PERPENDICULAR TO JOISTS. FRAMING AROUND OPENINGS: TRIMMER AND HEADER JOISTS SHALL BE DOUBLED AND SUPPORTED BY HANGERS PER CODE (2007 CBC 2308.3). ALLOWABLE SOILS PRESSURE TO BE A MINIMUM OF 1500 PSF UNLESS A SOILS REPORT IS PROVIDED. SOILS IN THE BUILDING AREA & 5 FEET BEYOND SHALL BE COMPACTED TO A MINIMUM OF 90% RELATIVE COMPACTION PER 2010 C.B.C. SOILS REPORT BY: (IF PROVIDED) ROOF SHEATHING (MIN) 1/2" STANDARD PLYWOOD PANEL INDEX NO. 24/0 WITH EXTERIOR GLUE, USE 8d NAILS AT 6"OC AT ALL EDGES, BOUNDARIES AND SHEAR WALLS & 12" OC FIELD. NO BLOCKING IS REQUIRED UNLESS NOTED ON PLAN. FRAMING AROUND OPENINGS: TRIMMER AND HEADER JOISTS SHALL BE DOUBLED AND SUPPORTED BY HANGERS PER CODE. FRAMING-CEILING INDICATES SHEAR WALL TYPE & LENGTH. SEE FOUNDATION & OR FRAMING PLAN AT SHEAR WALL SCHEDULE FOR TYPE, SILL BOLTING, SHTG., ETC. NOTE: FOR SILL BOLTING AT EXISTING FOOTINGS USE "SET-XP" EPOXY BOLT ICC. ESR-2508 THE SAME SIZE & SPACING AS SILL BOLTING (MIN 7 1/2" EMBED). (PER 2010 C.B.C. TABLE 2308.10.2) CEILING JOISTS SHALL BE 2X6 @16"O.C. (MAX SPAN-15'-9") CEILING JOISTS SHALL BE 2X8 @16"O.C. (MAX SPAN-20'-9") FRAMING-JOISTS/RAFTERS INDICATES POST MIN. POST SIZE/TYPE AS FOLLOWS U.N.O.: BEAM SIZE 4 x 14 & SMALLER 2-2x4 W/16d NAIL BORING AND NOTCHING OF JOISTS SHALL BE AS FOLLOWS: (2010 CBC 2308.10.4.2) 2-2x4 W/16d NAILS @ 12" O.C. 3-2x4 W/16d NAILS @ 12" O.C. BORING-MAX. DIA. OF HOLE SHALL NOT EXCEED 1/2 OF DRESSED DEPTH OF JOIST WITH A MINIMUM EDGE CLEARANCE OF TWO INCHES. NOTCHING-MAX. DEPTH AT ENDS SHALL NOT EXCEED 1/4 OF DRESSED DEPTH. NO NOTCHING IS ALLOWED IN THE CENTER THIRD OF THE JOIST SPAN. NOTCHING IN OTHER LOCATIONS SHALL BE ON THE COMPRESSIVE SIDE WITH A MAX DEPTH OF 1/6 OF THE JOIST DEPTH. WHERE THREE OR MORE (MULTIJOISTS) ARE USED THE JOISTS SHALL BE BOLTE TOGETHER WITH 1/2" DIA MACHINE BOLTS W/ WASHERS AT 24"OC STAGGERED. BOLTS SHALL BE RETIGHTENED PRIOR TO APPLYING FINISH MATERIALS. POSTS ARE TO CONTINUE DOWN TO FOUNDATION. JOISTS/RAFTERS SHALL LAP AT SPLICES A MIN. OF 4 INCHES WITH 3-16d NAILS OR USE SIMPSON ST 2115 @ 48 INCHES O.C. 4. CROSS BRIDGING OR 2X BLKG.SHALL BE PROVIDED @ 8'-0" O/C, MAX. FOR ALL JOISTS AND RAFTERS MORE THAN 8" IN DEPTH . 5. 2x SOLID BLOCKING SHALL BE PLACED BETWEEN JOISTS OR RAFTERS AT ALL SUPPORTS. FOUNDATION NOTES 1. SOIL BENEATH FOOTINGS AND SLABS SHALL BE COMPACTED PER 2010 C.B.C. (90%) RELATIVE COMPACTION MINIMUM. THE SOILS ENGINEER SHALL INSPECT THE FOUNDATION PRIOR TO POURING OF CONCRETE AND SHALL VERIFY THE SOIL BEARING PRESSURE TO BE 1500 PSF MIN. OR PER THE SOILS REPORT. ALL BOLTS BEARING ON WOOD SHALL HAVE WASHERS UNDER HEAD OR NUT. SEE SCHEDULE ALL BOLTS SHALL BE RETIGHTENED, PRIOR TO APPLICATION OF PLYWOOD, HOLES FOR BOLTS SHALL BE BORED 1/32" TO 1/16" LARGER THAN NOMINAL BOLT DIAMETER. 3. SLAB ON GRADE: 4 INCH. CONCRETE SLAB WITH *3 @ 24"O/C E.W. @ CENTER OF SLAB OVER 2 INCH. OF SAND OVER 6 MIL. VISQUEEN OVER COMPACTED SOILS U.N.O. NO TRENCHES OR EXCAVATIONS FIVE FEET IN DEPTH OR GREATER INTO WHICH A PERSON SHALL BE REQUIRED TO DESCEND SHALL BE MADE WITHOUT PROPER PERMIT. LUMBER ALL LUMBER SHALL BE DOUGLAS FIR LARCH OF THE FOLLOWING GRADES UNLESS OTHERWISE NOTED (MAX MOISTURE CONTENT SHALL NOT EXCEED 19% & GRADED IN ACCORDANCE WITH THE WEST COAST LUMBERMANS ASSOCIATION.) THE MINIMUM BOLTING FOR SILL PLATES TO FOUNDATION SHALL BE AS FOLLOWS: %" DIAMETER ANCHOR BOLTS WITH 7" MIN EMBEDMENT IN CONCRETE WITH SPACING NO GREATOR THAN 4 FEET O.C. NOR FURTHER THAN 12" FROM CORNERS (MIN 2 BOLTS PER PIECE). SEE THE FOUNDATION PLAN & SHEAR WALL SCHEDULE FOR FURTHER BOLTING REQUIREMENTS. REPETATIVE USE MEMBERS STUDS & PLATES----------JOISTS & RAFTERS PIPES OR DUCTS THAT EXCEED ONE THIRD THE SLAB OR CONC. WALL THICKNESS SHALL NOT BE PLACED IN STRUCTURAL CONC. UNLESS SPECIFICALLY DETAILED. SEE MECHANICAL AND/OR ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES, ACCESSORIES, ETC. 2x4 TO 4x4 INCLUSIVE SINGLE USE MEMBERS PIPES MAY PASS THRU STRUCTURAL CONC. IN SLEEVES, BUT SHALL NOT BE EMBEDDED THEREIN. 6x OR LARGER----POSTS & MULLIONS 4x4 & SMALLER---4x6 & LARGER----6X6 & LARGER-----8. PROVIDE 1/4" CHAMFERS AT ALL EXPOSED CORNERS. SEE ARCHITECTURAL PLANS FOR MOLDS, GROOVES, ORNAMENTS CLIPS OR GROUNDS REQUIRED TO BE CAST IN CONCRETE, AND FOR LOCATIONS OF FLOOR FINISHES AND SLAB DEPRESSIONS. MISCELLANEOUS LUMBER BLOCKING, FURRING, ETC. 10. LOCATION OF POUR JOINTS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. DECKING & SHEATHING 2x.3x,4x----UNLESS OTHERWISE NOTED ON PLANS CONCRETE SHALL BE TYPE V WITH A MINMUM COMPRESSIVE STRENGTH OF 2500 PSI IN 28 DAYS, WATER-CEMENT RATIO OF 0.45. CEMENT SHALL CONFORM TO A.S.T.M. CX-150 FINE & COURSE AGGREGATE SHALL CONFORM TO A.S.T.M. C33. ALL WOOD BEARING ON CONCRETE OR MASONRY IF LESS THAN 4 FEET FROM GRADE SHALL BE PRESSURE TREATED DOUG FIR. 3. GLUED-LAMINATED WOOD BEAMS SHALL BE DOUGLAS FIR COMB. 24F-V8(*) DF/DF (Fb-2400PSI, Fv-165 PSI, E-180,000 PSI) INDUSTRIAL APPEARANCE WITH EXTERIOR GLUE UNLESS OTHERWISE NOTED ON PLANS. A CERTIFICATE OF INSPECTION FOR EACH GLU-LAM BEAM FROM AN APPROVED TESTING AGENCY TO BE SUBMITTED APPROVED BY THE BUILDING DEPT. PRIOR TO ERECTION. [(*) USE V8 FOR CANT. BEAMS AND V4 FOR SIMPLE SPANS BEAMS] REINFORCING STEEL REINFORCING STEEL, *3 AND *4 GRADE 40, *5 AND LARGER GRADE 60 PER A.S.T.M. A615. LOW HYDROGEN WELDING RODS SHALL BE USED FOR ALL WELDING OF REINFORCING BARS. . ALL STRUCTURAL PLYWOOD SHALL BE IN ACCORDANCE WITH P.S. 1-95 BARS NOTED AS "CONT "TYPICAL WALL REINFORCING AND VERTICAL COLUMN RE-INFORCING SHALL HAVE A MINIMUM SPLICE OF 50 BAR DIAMETERS LAP IN MASONRY OR 40 BAR DIAMETERS MINIMUM IN CONCRETE. NAILING SCHEDULE REINFORCING SHALL BE SPLICED ONLY AS SHOWN OR NOTED. OTHER SPLICES SHALL BE APPROVED BY THE STRUCURAL ENGINEER. THIS NAILING IS TYPICAL UNLESS OTHERWISE NOTED. NAILS SHALL BE BOX SPLICES IN ADJACENT HORIZONTAL WALL REINFORCING BARS SHALL BE STAGGERED 4 FEET UNLESS OTHER WISE NOTED. OR COMMON WIRE SPECIFICLY DETAILED CONNECTIONS SHALL BE NAILED WITH COMMON WIRE NAILS. DIAPHRAGM SHEATHING NAILS OR OTHER APPROVED PROVIDE DOWELS IN FOOTINGS AND/OR GRADE BEAMS THE SAME SIZE AND NUMBER AS VERTICAL WALL OR COLUMN REINFORCING. DOWELS SHALL HAVE A MINIMUM PROJECTION EQUAL TO STANDARD LAP SPLICE UNLESS OTHERWISE NOTED. SHEATHING CONNECTIONS SHALL BE DRIVEN SO THAT THEIR HEAD OR CROWN IS FLUSH WITH THE SURFACE OF THE SHEATHING. JOISTS OR RAFTERS TO SIDES OR STUDS ALL REINFORCING, ANCHOR BOLTS, AND OTHER INSERTS SHALL BE SECURED IN PLACE PRIOR TO PLACMENT OF CONCRETE OR GROUTING OF MASONRY. B INCHES IN DEPTH OR LESS-----FOR EACH ADDITIONAL 4"DEPTH ADD-----JOISTS OR RAFTERS AT ALL BEARING STUDS TO BEARING-TOE NAILS EA. SIDE-----*********** BLOCKING BETWEEN JOISTS/RAFTERS TO THE JOISTS/RAFTERS TOE NAILS EA SIDE-BEAMS AND GIRDERS-----STRUCTURAL SLAB (ABOVE GRADE)-----FROM BLOCKING TO BEARING TOE NAILS EA SIDE----- 2-10d BLOCKING BETWEEN STUDS NUMBER 5 OR LARGER REINFORCING BARS SHALL NOT BE RE-BENT WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER. PROGRESSIVE BLOCKING RAFTER TO BLOCK & BLOCK TO CONT. NAILER-----CONCRETE BLOCK MASONRY (STAGGER NAILS ON STUDS CONCRETE BLOCK SHALL CONFORM TO A.S.T.M. C90, GRADE N UNITS. SEE ARCHITECTURAL PLANS FOR TYPE, PATTERN AND JOINT DETAILS. RIBBON TO STUDS Ix RIBBON-MORTAR SHALL BE AS FOLLOWS: fm = 1500 PSIMIN. 1 PART PORTLAND CEMENT 4 PARTS SAND 1/4 MIN. TO 1/2 MAX. PART HYDRATED DOUBLE TOP PLATES LOWER PLATE TO STUD--UPPER TO LOWER PLATE-GROUT SHALL BE AS FOLLOWS: 1'C . 2500 PSI 1 PART PORTLAND CEMENT 3 PARTS SAND 2 PARTS PEA GRAVEL WATER SUFFICIENT TO ALLOW GROUT TO FLOW INTO ALL JOINTS. AT SPLICES (48"MIN) ON EACH SIDE OF BUTT IN TOP PLATE --UPPER TO LOWER PLATE CELLS SHALL BE IN VERTICAL ALIGNMENT TO PROVIDE A MIN. UNOBSTRUCTED CORE OF 3"X 3". DOWELS FROM FOOTINGS SHALL BE SET TO ALIGN WITH CORE AT INTERSECTIONS-CEILING STRIPS 1x4 PER BEARING(STRONGHOLD TYPE)--2x3 PER BEARING(STRONGHOLD TYPE)-----ALL CELLS BELOW FINISHED GRADE AND ALL CELLS WITH REINFORCING, ANCHORS OR INSERTS SHALL BE FILLED SOLID WITH GROUT. PLYWOOD NAILINGISEE DETAILS &/OR SCHEDULES BUILT UP BEAMS ------20d @ 32"OC T&B STAGGERED 2-20d @ END 1x6 LET-IN BRACES, EACH BEARING .----CONCRETE SURFACES SHALL BE CLEANED OF ALL LAITANCE PRIOR TO SETTING OF (PRE-DRILL HOLES FOR NAILS)





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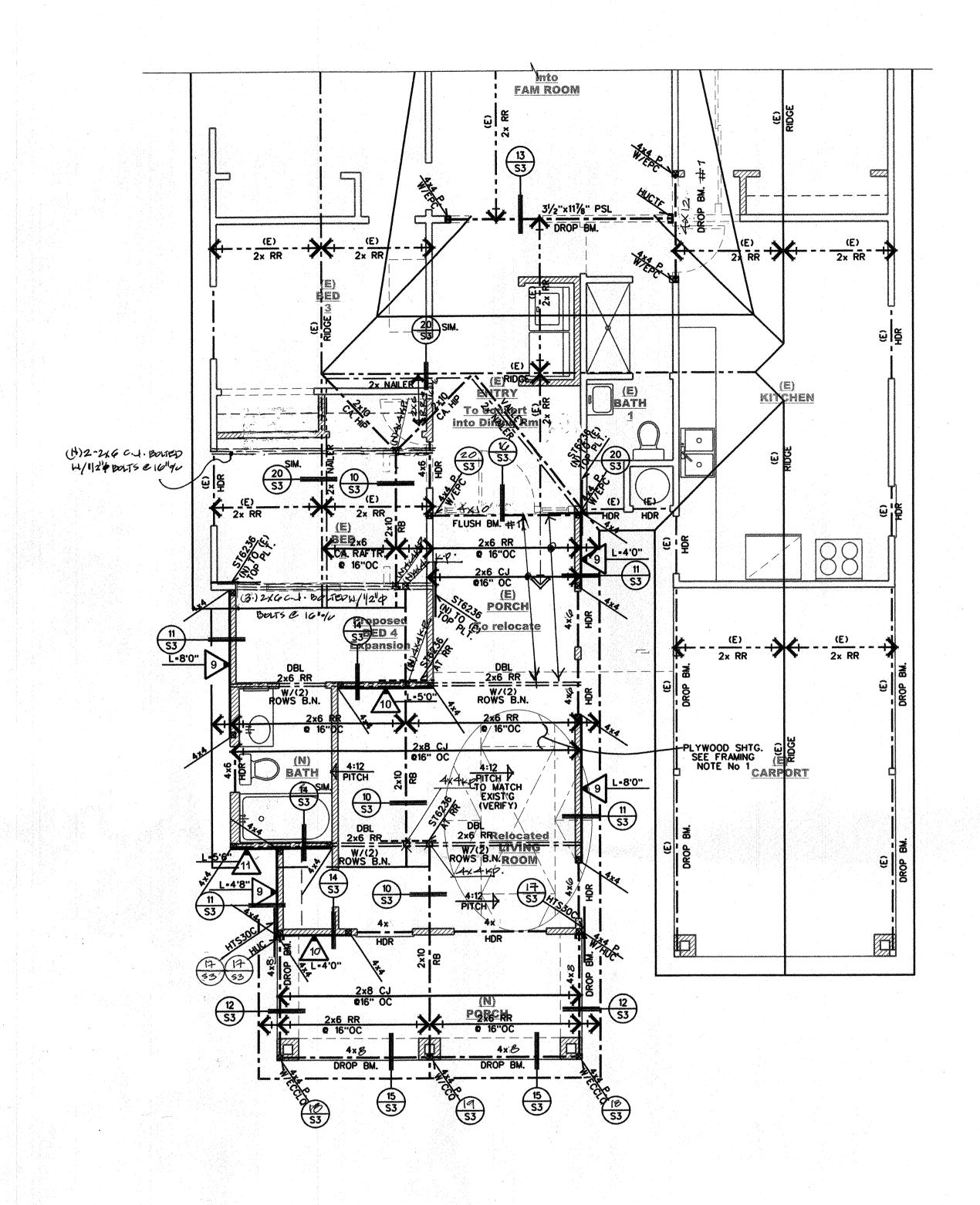
DRAFTING

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Sheet content: STRUCTURAL NOTES

SHEET NUMBER:



FRAMING NOTES

- ROOF SHEATHING:
 PER SHEET SN-1 U.N.O. ON PLAN. USE 1X6 SOLID SHEATHING
 OR A-C GRADE PLYWOOD AT EAVES & OVERHANG FACE GRAIN PERP.
 TO SUPPORTS. MAY USE OSB PANELS WITH RADIANT BARRIER IF
 REQUIRED FOR TITLE 24 COMPLIANCE. SEE TITLE 24
- 2. PROVIDE FULL LENGHT TRIMMERS AS FOLLOWS:
 4X POST AT EACH END OF 4X12 OR LARGER MEMBERS,
 DOUBLE STUDS FOR 4X10 SINGLE STUD
 FOR 4X8 OR SMALLER MEMBERS

 (S1)
- 3. FOR TYP. STUD WALL FRAMING SEE
- 4. B.N. ALONG STUDS
- 5. PROVIDE MULTIPLE STUDS UNDER MULTIPLE JOISTS
- 6. PROVIDE FULL BEARING W/SOLID BLOCKING OR SHIMMING BELOW ALL POSTS AT FLOOR.
- 7. SEE DET'S 2 STUDS. STUDS. STUDS. STUDS. SEE DET'S 2 STUDS.
- 8. 2 LAYERS OF 15. FELT SHALL BE USED AT ALL STUCCO APPLIED OVER PLYWOOD.
- 9. MIN. 2X6 STUDS @ 16" O.C. AT PLUMBING WALLS.
- 10. ROOF DIAPHRAGM NAILING TO BE INSPECTED BEFORE COVERING. FACE GRAIN OF PLYWOOD SHALL BE PERPENDICULAR TO SUPPORTS.
- 11. DOUBLE JOIST ARE REQUIRED UNDER PARALLEL BEARING PARTITIONS.
- 12. PROVIDE FIRE BLOCKING IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDED FURRED SPACES AT THE CEILING AND FLOOR LEVEL AND AT 10 FT INTERVALS BOTH VERTICAL AND HORIZONTAL.

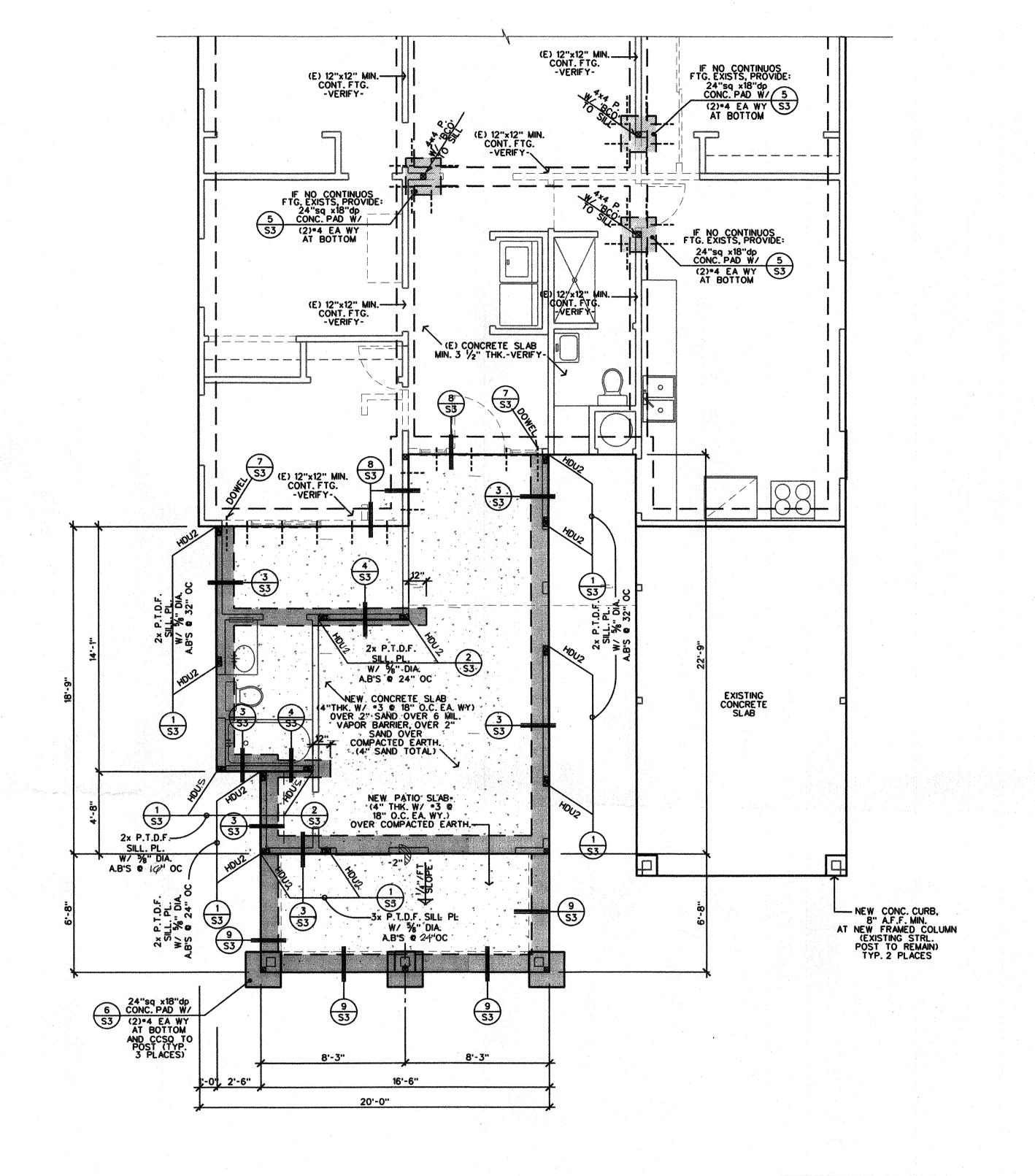
- 13. WALLS BRACED TO RESIST WIND AND SEISMIC FORCES SHALL NOT EXCEED THE FOLLOWING HEIGHT TO WIDTH RATIOS: 2 TO 1 FOR PLYWOOD. FRAMING MEMBERS OR BLOCKING SHALL BE PROVIDED AT THE EDGES OF ALL SHEETS IN SHEAR WALLS: 2 TO 1 FOR GYPSUM WALLBOARD & PORTLAND CEMENT PLASTER (STUCCO). WALL SECTIONS HAVING HEIGHT-TO- LENGTH RATIOS IN EXCESS OF 1 ½ TO 1 HEIGHT-TO-WIDTH SHALL BE BLOCKED.
- 14. ALL NAILS ARE COMMON NAILS.
- 15. ALL STUDS @ 16" O.C. MAXIMUM.
- 16. WHERE TOP PLATE OR SOLE PLATE ARE CUT FOR PIPES, A METAL TIE MINIMUM 0.058 INCHES THICK AND 1 1/2 WIDE SHALL BE FASTENED ACROSS THE OPENING WITH 6- 16d NAILS MINIMUM EA. SIDE.
- 17. TYP. 4'-0" MIN, LAP W/ 16- 16d TOP PLT SPLICE OR STRAP

SEE SHT S1 FOR SHEAR WALL SCHEDULE AND ADDITIONAL INFO.

EXISTING WALLS TO REMAIN NEW WALL (2x4 @ 16"OC MIN.) (2x6 @ PLUMBING WALLS) EXISTING WALLS TO REMOVE

FRAMING PLAN SCALE: 1/4-1'-0"

LEGEND



ADDITIONAL FOUNDATION NOTES:

- a. VERIFY HRDWR. LOCATION W/ FLOOR PLAN
- HOLDOWN ANCHORS MUST BE TIED IN PLACE PRIOR TO FOUNDATION INSPECTION AND RE-TIGHTEN JUST PRIOR TO COVERING THE WALL FRAMING.
- C. SURFACE WATER WILL DRAIN AWAY FROM BUILDING.
- d. HOLD-DOWN CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE APPROVED PLATE WASHERS, AND HOLD-DOWNS SHALL BE TIGHTENED JUST PRIOR TO COVERING THE WALL FRAMING.
- e. ALL INTERIOR NON BEARING FOOTINGS TO HAVE \$\frac{7}{32}"\$ SHOT PINS AT 32" O.C. & 48"OC RESPECTIVELY. ICC. ESR-2269 (HILTI), OR ICC. ESR-1663 (RAMSET RED-HEAD).
- f. %" DIA A.B. MAY BE REPLACED BY %" DIA THREADED RODS W/ 7" EMBED. WITH "EPOXY SET-XP" SYSTEM ICC. ESR 2508 AT THE SAME SPACING.
- g. FASTENERS FOR PRESERVATIVE TREATED AND FIRE TREATED WOOD SHALL BE OF HOT DIPPED ZINC-COATED GALVANIZED STEEL, SILICONE, BRONZE OR COPPER.
- h. PROVIDE DEEPER FT'G AS REQ'D TO COMPLY W/ ANCHOR BOLT MINIMUM EMBEDMENT.

SEE SHT S1 FOR ADDITIONAL INFO

ANCHOR BOLT NOTE:

MINIMUM NOMINAL ANCHOR BOLT DIA SHALL BE $\frac{5}{8}$ " SPACED PER SHEAR SCHEDULE OR & 4'-0" OC. MAX. EMBEDED INTO CONCRETE 7" MIN. W/ MIN. DISTANCE FROM THE END OF SILL PLATES TO BE 4 $\frac{1}{2}$ " AND A MAXIMUM OF 12".

PLATE WASHERS -MIN. SIZE OF 3" X 3" X.229"- SHALL BE USED ON EACH ANCHOR BOLT CODE MINIMUM (2) ANCHOR BOLTS PER PANEL.

LEGEND

EXISTING FOOT'G NEW FOOT'G

CHECKED:

PREPARED BY:

DRAFTING

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Revisions

Plan preparer:

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M-016

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Ana

Guillermo Rosas

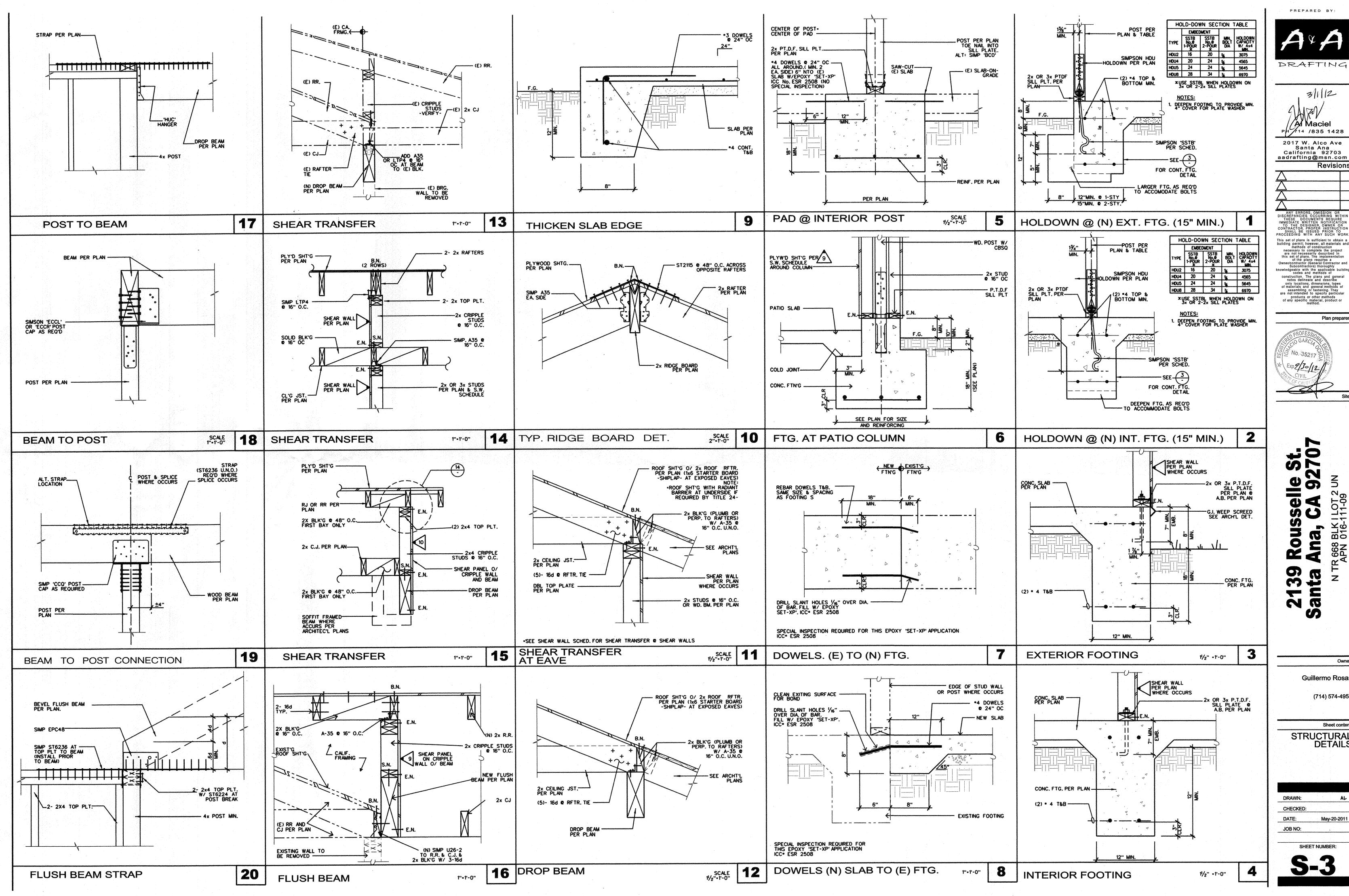
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Sheet content:

May-20-2011

STRUCTURAL PLANS

3/1/2



Plan preparer elle S A 927 TR 668 BLK 1 LOT 2 APN 016-111-09 0 Ana

Revisions

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Sheet content: STRUCTURAL DETAILS

BUILDING ENVELOPE MEASURES.

116(A)1. DOORS AND WINDOWS BETWEEN CONDITIONED AND UNCONDITIONED SPACES ARE
MANUFACTURED TO LIMIT AIR LEAKAGE.
116(A)4. FENESTRATION PRODUCTS (EXCEPT FIELD-FABRICATED WINDOWS) HAVE A LABEL
LISTING THE CERTIFIED U-FACTOR. CERTIFIED SOLAR HEAT GAIN COEFFICIENT (SHGC).
AND INFILTRATION THAT MEETS THE REQUIREMENTS OF 10-111(A).
117. EXTERIOR DOORS AND WINDOWS ARE WEATHER-STRIPPED: ALL JOINTS AND
PENETRATIONS ARE CAULKED AND SEALED.
118(A). INSULATION SPECIFIED OR INSTALLED MEETS STANDARDS FOR INSULATING
MATERIAL. INDICATE TYPE AND INCLUDE ON CF-GR FORM.
118(I): THE THERMAL EMITTANCE AND SOLAR REFLECTANCE VALUES OF THE COOL ROOFING
MATERIAL MEETS THE REQUIREMENTS OF 118(I) WHEN THE INSTALLATION OF A COOL ROOF
IS SPECIFIED ON THE CF-1R FORM.
-150(A): MINIMUM R-19 INSULATION IN WOOD-FRAME CEILING OR EQUIVALENT U-FACTOR.
150(B): LOOSE FILL INSULATION SHALL CONFORM WITH MANUFACTURER'S INSTALLED
DESIGN LABELED R-VALUE.
-150(C): MINIMUM R-13 INSULATION IN WOOD-FRAME WALL OR EQUIVALENT U-FACTOR.
-150(D): MINIMUM R-13 INSULATION IN RAISED WOOD-FRAME FLOOR OR EQUIVALENT
U-FACTOR.

U-FACTOR. U-FACTOR.

150(F): AIR RETARDING WRAP IS TESTED. LABELED. AND INSTALLED ACCORDING TO ASTM E1677-95(2000) WHEN SPECIFIED ON THE CF-1R FORM.

150(G): MANDATORY VAPOR BARRIER INSTALLED IN CLIMATE ZONES 14 OR 16.

150(L): WATER ABSORPTION RATE FOR SLAB EDGE INSULATION MATERIAL ALONE WITHOUT FACINGS IS NO GREATER THAN 0.3%; WATER VAPOR PERMEANCE RATE IS NO GREATER THAN 2.0 PERM/INCH AND SHALL BE PROTECTED FROM PHYSICAL DAMAGE AND UV LIGHT DETERIORATION.

FIREPLACES. DECORATIVE GAS APPLIANCES AND GAS LOG MEASURES: 150(E)1A: MASONRY OR FACTORY-BUILT FIREPLACES HAVE A CLOSABLE METAL OR GLASS

MANDATORY MEASURES SUMMARY. RESIDENTIAL ************************** PROJECT TITLE..... ROSAS ADD ***************************** MICROPASE V8.1 FILE-ROUSSELLE WTH-CTZ08S08
USER--MP2176 USER-A & A DRAFTING RUN-ROSAS

DOOR COVERING THE ENTIRE OPENING OF THE FIREBOX.

150(E)18: MASONRY OR FACTORY-BUILT FIREPLACES HAVE A COMBUSTION OUTSIDE AIR
INTAKE, WHICH IS AT LEAST SIX SQUARE INCHES IN AREA AND IS EQUIPPED WITH A
WITH A READILY ACCESSIBLE, OPERABLE, AND TIGHT-FITTING DAMPER AND OR A
COMBUSTION-AIR CONTROL DEVICE.

150(E)2: CONTINUOUS BURNING PILOT LIGHTS AND THE USE OF INDOOR AIR FOR COOLING
A FIREBOX JACKET, WHEN THAT INDOOR AIR IS VENTED TO THE OUTSIDE OF THE
BUILDING, ARE PROHIBITED.

SPACE CONDITIONING. WATER HEATING AND PLUMBING SYSTEM MEASURES.

110-113: HVAC EQUIPMENT. WATER HEATERS, SHOWERHEADS, FAUCETS AND ALL OTHER REGULATED APPLIANCES ARE CERTIFIED BY THE ENERGY COMMISSION.
113(C)5: WATER HEATING RECIRCULATION LOOPS SERVING MULTIPLE DWELLING UNITS AND HIGH-RISE RESIDENTIAL OCCUPANCIES MEET THE AIR RELEASE VALVE, BACKFLOW PREVENTION, PUMP ISOLATION VALVE, AND RECIRCULATION LOOP CONNECTION REQUIREMENTS OF 113(C)5.
115: CONTINUOUSLY BURNING PILOT LIGHTS ARE PROHIBITED FOR NATURAL GAS: FAN-TYPE CENTRAL FURNACES, HOUSEHOLD COOKING APPLIANCES (APPLIANCES WITH AN ELECTRICAL SUPPLY VOLTAGE CONNECTION WITH PILOT LIGHTS THAT CONSUME LESS THAN 150 BTU/HR ARE EXEMPT), AND POOL AND SPA HEATERS.
150(H): HEATING AND/OR COOLING LOADS ARE CALCULATED IN ACCORDANCE WITH ASHRAE, SMACNA OR ACCA. 150(H): HEATING AND/OR COOLING LOADS ARE CALCULATED IN ACCUMUANCE WITH ASHRAE.

SMACNA OR ACCA.

150(I): HEATING SYSTEMS ARE EQUIPPED WITH THERMOSTATS THAT MEET THE SETBACK
REQUIREMENTS OF SECTION 112(C).

150(J): 14: STORAGE GAS WATER HEATERS RATED WITH AN ENERGY FACTOR NO GREATER
THAN THE FEDERAL MINIMAL STANDARD ARE EXTERNALLY WRAPPED WITH INSULATION
HAVING AN INSTALLED THERMAL RESISTANCE OF R-12 OR GREATER.

150(J): 18: UNFIRED STORAGE TANKS, SUCH AS STORAGE TANKS OR BACKUP TANKS FOR
SOLAR WATER-HEATING SYSTEM, OR OTHER INDIRECT HOT WATER TANKS HAVE R-12
EXTERNAL INSULATION OR R-16 INTERNAL INSULATION WHERE THE INTERNAL INSULATION
R-VALUE IS INDICATED ON THE EXTERIOR OF THE TANK.

150(J): FIRST 5 FEET OF HOT AND COLD WATER PIPES CLOSEST TO WATER HEATER
TANK, NON-RECIRCULATING SYSTEMS, AND ENTIRE LENGTH OF RECIRCULATING SECTIONS
OF HOT WATER PIPES ARE INSULATED PER STANDARDS TABLE 150-B.

150(J): COOLING SYSTEM PIPING (SUCTION, CHILLED WATER, OR BRINE LINES). AND
PIPING INSULATED BETWEEN HEATING SOURCE AND INDIRECT HOT WATER TANK SHALL BE
INSULATED TO TABLE 150-B AND EQUATION 150-A.

150(J): PIPE INSULATION FOR STEAM HYDRONIC HEATING SYSTEMS OR HOT WATER
SYSTEMS >15 PSI. MEETS THE REQUIREMENTS OF STANDARDS TABLE 123-A.

150(J): INSULATION IS PROTECTED FROM DAMAGE. INCLUDING THAT DUE TO SUNLIGHT.

MOISTURE. EQUIPMENT MAINTENANCE. AND WIND.

150(J): INSULATION FOR CHILLED WATER PIPING AND REFRIGERANT SUCTION LINES
INCLUDES A VAPOR RETARDANT OR IS ENCLOSED ENTIRELY IN CONDITIONED SPACE.

150(J): SOLAR WATER-HEATING SYSTEMS AND/OR COLLECTORS ARE CERTIFIED BY THE
SOLAR RATING AND CERTIFICATION CORPORATION.

DUCTS AND FANS MEASURES:

150(M)1. ALL AIR-DISTRIBUTION SYSTEM DUCTS AND PLENUMS INSTALLED. ARE SEALED

MANDATORY MEASURES SUMMARY. RESIDENTIAL PROJECT TITLE..... ROSAS ADD DATE..09/29/11 10:04:06 MICROPASB V8.1 FILE-ROUSSELLE WTH-CTZ08S08

WISER*-MP2176 USER-A & A DRAFTING RUN-ROSAS

AND INSULATED TO MEET THE REQUIREMENTS OF CMC SECTIONS 601, 602, 603, 604, 605 AND STANDARD 6-5; SUPPLY-AIR AND RETURN-AIR DUCTS AND PLENUMS ARE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-4.2 OR ENCLOSED ENTIRELY IN CONDITIONED SPACE. OPENINGS SHALL BE SEALED WITH MASTIC, TAPE OR OTHER DUCT-CLOSURE SYSTEM THAT MEETS THE APPLICABLE REQUIREMENTS OF UL 181, UL 181A, OR UL 181B OR AEROSOL SEALANT THAT MEETS THE REQUIREMENTS OF UL 723. IF MASTIC OR TAPE IS USED TO SEAL OPENINGS GREATER THAN 1/4 INCH, THE COMBINATION OF MASTIC AND EITHER MESH OR TAPE SHALL BE USED.

150(M)1: BUILDING CAVITIES, SUPPORT PLATFORMS FOR AIR HANDLERS, AND PLENUMS DEFINED OR CONSTRUCTED WITH MATERIALS OTHER THAN SEALED SHEET METAL, DUCT BOARD OR FLEXIBLE DUCT SHALL NOT BE USED FOR CONVEYING CONDITIONED AIR. BUILDING CAVITIES AND SUPPORT PLATFORMS MAY CONTAIN DUCTS. DUCTS INSTALLED IN CAVITIES AND SUPPORT PLATFORMS MAY CONTAIN DUCTS. DUCTS INSTALLED IN CAVITIES AND SUPPORT PLATFORMS SHALL NOT BE COMPRESSED TO CAUSE REDUCTIONS IN THE CROSS-SECTIONAL AREA OF THE DUCTS.

150(M)20* JOINTS AND SEAMS OF DUCT SYSTEMS AND THEIR COMPONENTS SHALL NOT BE SEALED WITH CLOTH BACK RUBBER ADHESIVE DUCT TAPES UNLESS SUCH TAPE IS USED IN COMBINATION WITH MASTIC AND DRAW BANDS.

150(M)7* EXHAUST FAN SYSTEMS HAVE BACK DRAFT OR AUTOMATIC DAMPERS.

150(M)8* GRAVITY VENTILATING SYSTEMS SERVING CONDITIONED SPACE HAVE EITHER AUTOMATIC OR READILY ACCESSIBLE, MANUALLY OPERATED DAMPERS.

150(M)9* INSULATION SHALL BE PROTECTED FROM DAMAGE, INCLUDING THAT DUE TO SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE, AND WIND. CELLULAR FOAM INSULATION SHALL BE PROTECTED AS ABOVE OR PAINTED WITH A COATING THAT IS WATER RETARDANT AND PROVIDES SHIELDING FROM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL. 150(M)10: FLEXIBLE DUCTS CANNOT HAVE POROUS INNER CORES.
150(O): ALL DWELLING UNITS SHALL MEET THE REQUIREMENTS OF ANSI/ASHRAE STANDARD
62.2-2007 VENTILATION AND ACCEPTABLE INDOOR AIR QUALITY IN LOW-RISE
RESIDENTIAL BUILDINGS. WINDOW OPERATION IS NOT A PERMISSIBLE METHOD OF
PROVIDING THE WHOLE BUILDING VENTILATION REQUIRED IN SECTION 4 OF THAT

POOL AND SPA HEATING SYSTEMS AND EQUIPMENT MEASURES:

114(A)* ANY POOL OR SPA HEATING SYSTEM SHALL BE CERTIFIED TO HAVE: A THERMAL EFFICIENCY THAT COMPLIES WITH THE APPLIANCE EFFICIENCY REGULATIONS: AN ON-OFF SWITCH MOUNTED OUTSIDE OF THE HEATER: A PERMANENT WEATHERPROOF PLATE OR CARD WITH OPERATING INSTRUCTIONS: AND SHALL NOT USE ELECTRIC RESISTANCE HEATING OR A PILOT LIGHT.

114(B)1: ANY POOL OR SPA HEATING EQUIPMENT SHALL BE INSTALLED WITH AT LEAST 36" OF PIPE BETWEEN FILTER AND HEATER. OR DEDICATED SUCTION AND RETURN LINES. OR BUILT-UP CONNECTIONS FOR FUTURE SOLAR HEATING
114(B)2: OUTDOOR POOLS OR SPAS THAT HAVE A HEAT PUMP OR GAS HEATER SHALL HAVE A COVER. A COVER.

114(B)3: POOLS SHALL HAVE DIRECTIONAL INLETS THAT ADEQUATELY MIX THE POOL WATER. AND A TIME SWITCH THAT WILL ALLOW ALL PUMPS TO BE SET OR PROGRAMMED TO RUN ONLY DURING OFF-PEAK ELECTRIC DEMAND PERIODS.

150(P): RESIDENTIAL POOL SYSTEMS OR EQUIPMENT MEET THE PUMP SIZING, FLOW RATE, PIPING, FILTERS, AND VALVE REQUIREMENTS OF 150(P). MANDATORY MEASURES SUMMARY: RESIDENTIAL ***************** DATE..09/29/11 10:04:06 PROJECT TITLE...... ROSAS ADD DATE..09/29/11 10:04:06 MICROPAS8 V8.1 FILE-ROUSSELLE WTH-CTZ08S08 USER--MP2176 USER-A & A DRAFTING RUN-ROSAS *****************

RESIDENTIAL LIGHTING MEASURES: 150(K)]: HIGH EFFICACY LUMINAIRES OR LED LIGHT ENGINE WITH INTEGRAL HEAT SINK
HAS AN EFFICACY THAT IS NO LOWER THAN THE EFFICACIES CONTAINED IN TABLE 150-C
AND IS NOT A LOW EFFICACY LUMINAIRE AS SPECIFIED BY 150(K)2.
150(K)3: THE WATTAGE OF PERMANENTLY INSTALLED LUMINAIRES SHALL BE DETERMINED
AS SPECIFIED BY 130(D).
150(K)4: BALLASTS FOR FLUORESCENT LAMPS RATED 13 WATTS OR GREATER SHALL BE
ELECTRONIC AND SHALL HAVE AN OUTPUT FREQUENCY NO LESS THAN 20 KHZ.
150(K)5: PERMANENTLY INSTALLED NIGHT LIGHTS AND NIGHT LIGHTS INTEGRAL TO A
PERMANENTLY INSTALLED LUMINAIRE OR EXHAUST FAN SHALL CONTAIN ONLY HIGH
EFFICACY LAMPS MEETING THE MINIMUM EFFICACIES CONTAINED IN TABLE 150-C AND
SHALL NOT CONTAIN A LINE-VOLTAGE SOCKET OR LINE-VOLTAGE LAMP HOLDER: OR SHALL
BE RATED TO CONSUME NO MORE THAN FIVE WATTS OF POWER AS DETERMINED BY 130(D).
AND SHALL NOT CONTAIN A MEDIUM SCREW-BASE SOCKET.
150(K)6: LIGHTING INTEGRAL TO EXHAUST FANS, IN ROOMS OTHER THAN KITCHENS.
SHALL MEET THE APPLICABLE REQUIREMENTS OF 150(K).
150(K)7: ALL SWITCHING DEVICES AND CONTROLS SHALL MEET THE REQUIREMENTS OF
150(K)7. 150(K)7. ALL SWITCHING DEVICES AND CONTROLS SHALL MEET THE REQUIREMENTS OF 150(K)7.

150(K)8. A MINIMUM OF 50 PERCENT OF THE TOTAL RATED WATTAGE OF PERMANENTLY INSTALLED LIGHTING IN KITCHENS SHALL BE HIGH EFFICACY.

EXCEPTION: UP TO 50 WATTS FOR DWELLING UNITS LESS THAN OR EQUAL TO 2.500 FT2 OR 100 WATTS FOR DWELLING UNITS LARGER THAN 2.500 FT2 MAY BE EXEMPT FROM THE 50% HIGH EFFICACY REQUIREMENT WHEN: ALL LOW EFFICACY LUMINAIRES IN THE KITCHEN ARE CONTROLLED BY A MANUAL ON OCCUPANT SENSOR. DIMMER, ENERGY MANAGEMENT SYSTEM (EMCS). OR A MULTI-SCENE PROGRAMMABLE CONTROL SYSTEM; AND ALL PERMANENTLY INSTALLED LUMINAIRES IN GARAGES, LAUNDRY ROOMS, CLOSETS GREATER THAN 70 SQUARE FEET, AND UTILITY ROOMS ARE HIGH EFFICACY AND CONTROLLED BY A MANUAL-ON OCCUPANT SENSOR.

150(K)9: PERMANENTLY INSTALLED LIGHTING THAT IS INTERNAL TO CABINETS SHALL USE NO MORE THAN 20 WATTS OF POWER PER LINEAR FOOT OF ILLUMINATED CABINET.

150(K)10: PERMANENTLY INSTALLED LUMINAIRES IN BATHROOMS, ATTACHED AND DETACHED GARAGES. LAUNDRY ROOMS, CLOSETS AND UTILITY ROOMS SHALL BE HIGH EFFICACY.

EXCEPTION 1: PERMANENTLY INSTALLED LOW EFFICACY LUMINAIRES SHALL BE ALLOWED PROVIDED THAT THEY ARE CONTROLLED BY A MANUAL-ON OCCUPANT SENSOR CERTIFIED TO COMPLY WITH THE APPLICABLE REQUIREMENTS OF 119.

EXCEPTION 2: PERMANENTLY INSTALLED LOW EFFICACY LUMINAIRES IN CLOSETS LESS THAN 70 SQUARE FEET ARE NOT REQUIRED TO BE CONTROLLED BY A MANUAL-ON OCCUPANT SENSOR. SENSOR.

150(K)11: PERMANENTLY INSTALLED LUMINAIRES LOCATED IN ROOMS OR AREAS OTHER THAN IN KITCHENS, BATHROOMS, GARAGES, LAUNDRY ROOMS, CLOSETS, AND UTILITY ROOMS SHALL BE HIGH EFFICACY LUIMNAIRES.

EXCEPTION 1: PERMANENTLY INSTALLED LOW EFFICACY LUMINAIRES SHALL BE ALLOWED PROVIDED THEY ARE CONTROLLED BY EITHER A DIMMER SWITCH THAT COMPLIES WITH THE APPLICABLE REQUIREMENTS OF 119. OR BY A MANUAL-ON OCCUPANT SENSOR THAT COMPLIES WITH THE APPLICABLE REQUIREMENTS OF 119.

EXCEPTION 2: LIGHTING IN DETACHED STORAGE BUILDING LESS THAN 1000 SQUARE FEET LOCATED ON A RESIDENTIAL SITE IS NOT REQUIRED TO COMPLY WITH 150(K)11.

150(K)12: LUMINAIRES RECESSED INTO INSULATED CEILINGS SHALL BE LISTED FOR ZERO CLEARANCE INSULATION CONTACT (IC) BY UNDERWRITERS LABORATORIES OR OTHER

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NATIONALLY RECOGNIZED TESTING/RATING LABORATORY; AND HAVE A LABEL THAT CERTIFIES THE LUMIUNAIRE IS AIRTIGHT WITH AIR LEAKAGE LESS THEN 2.0 CFM AT 75 PASCALS WHEN TESTED IN ACCORDANCE WITH ASTM E283; AND BE SEALED WITH A GASKET OR CAULK BETWEEN THE LUMINAIRE HOUSING AND CEILING.

150(K)13, LUMINAIRES PROVIDING OUTDOOR LIGHTING, INCLUDING LIGHTING FOR PRIVATE PATIOS IN LOW-RISE RESIDENTIAL BUILDINGS WITH FOUR OR MORE DWELLING UNITS, ENTRANCES, BALCONIES, AND PORCHES, WHICH ARE PERMANENTLY MOUNTED TO A RESIDENTIAL BUILDING OR TO OTHER BUILDINGS ON THE SAME LOT SHALL BE HIGH EFFICACY.

EXCEPTION 1: PERMANENTLY INSTALLED OUTDOOR LOW EFFICACY LUMINAIRES SHALL BE ALCOWED PROVIDED THAT THEY ARE CONTROLLED BY A MANUAL ON/OFF SWITCH, A MOTION SENSOR NOT HAVING AN OVERRIDE OR BYPASS SWITCH THAT DISABLES THE HOTION OVERRIDE OR BYPASS SWITCH THAT DISABLES THE PHOTOCONTROL NOT HAVING AN OVERRIDE OR BYPASS SWITCH THAT DISABLES THE PHOTOCONTROL OR AN ASTRONOMICAL TIME CLOCK, OR AN ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) NOT HAVING AN OVERRIDE OR BYPASS SWITCH THAT ALLOWS THE LUMINAIRE TO BE ALWAYS ON EXCEPTION 2: OUTDOOR LUMINAIRES USED TO COMPLY WITH EXCEPTION TO 150(K)13 MAY BE CONTROLLED BY A TEMPORARY OVERRIDE SWITCH WHICH BYPASSES THE MOTION SENSING FUNCTION PROVIDED THAT THE MOTION SENSOR IS AUTOMATICALLY REACTIVATED WITHIN SIX HOURS.

EXCEPTION 3: PERMANENTLY INSTALLED LUMINAIRES IN OR AROUND SWIMMING POOL, WATER FEATURES. OR OTHER LOCATION SUBJECT TO ARTICLE 680 OF THE CALIFORNIA ELECTRIC CODE NEED NOT BE HIGH EFFICACY LUMINAIRES.

150(K)14: INTERNALLY ILLUMINATED ADDRESS SIGNS SHALL COMPLY WITH SECTION 148: OR NOT CONTAIN A SCREW-BASE SOCKET, AND CONSUME NO MORE THAN FIVE WATTS OF POWER AS DETERMINED ACCORDING TO 130(D).

150(K)15: LIGHTING FOR PARKING LOTS AND CARPORTS WITH A TOTAL OF FOR 8 OR MORE VEHICLES PER SITE SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS IN SECTIONS 130, 131, 134, AND 146.

150(K)16: PERMANENTLY INSTALLED LIGHTING IN THE ENCLOSED. NON-DWELLING SPACES 150(K)16: PERMANENTLY INSTALLED LIGHTING IN THE ENCLOSED. NON-DWELLING SPACES OF LOW-RISE RESIDENTIAL BUILDINGS WITH FOUR OR MORE DWELLING UNITS SHALL BE HIGH EFFICACY LUMINAIRES.
EXCEPTION: PERMANENTLY INSTALLED LOW EFFICACY LUMINAIRES SHALL BE ALLOWED PROVIDED THAT THEY ARE CONTROLLED BY AN OCCUPANT SENSOR(S) CERTIFIED TO COMPLY WITH THE APPLICABLE REQUIREMENTS OF 119.

PERTIFICATE OF COMPLIANCE	. RESIDENTIAL (OMDUTER MET	HOD	CF-1R PAGE
CLIMATE ZONE	ROSAS ADD 2139 ROUSSELLE SANTA ANA. CA 9: AL MACIEL A & A DRAFTING 2017 ALCO AVE. SANTA ANA. CA (714) 835-1428	2707 * V 92703 FOR 2008 CEC	DATE0 8.1 BUI PLA FIE STANDARDS (TH-CTZ08S08	LDING PERMIT - N CHECK / DATE LD CHECK/ DATE R03)
	MICROPASS ENER	RGY USE SUMM	**************************************	*********
ENERGY USE (KTDV/SF-YR)	STANDARD DESIGN	PROPOSED DESIGN	MARGIN	IMPROVEMENT
SPACE HEATING SPACE COOLING VENTILATION FANS	10.37 11.97	7.43 9.80 0.84	2.94 2.17 0.00	
· · · · · · · · · · · · · · · · · · ·	AL 23.18 NG COMPLIES WITH	18.07 I COMPUTER P	5.11 ERFORMANCE *	22.0%
	WATER HEATING	NOT CALCULAT	EO ***	*********
		NFORMATION		
	~ * * * * * * * * * * * * * * * * * * *	. NOT REQUI	RED	

NUMBER OF BUILDING STORIES. 1
WEATHER DATA TYPE..... FULLYEAR FLOOR CONSTRUCTION TYPE... SLAB ON GRADE
NUMBER OF BUILDING ZONES... 1
CONDITIONED VOLUME...... 3008 CF
SLAB-ON-GRADE AREA...... 376 SF
GLAZING PERCENTAGE...... 16.6 % OF FLOOR AREA
AVERAGE GLAZING U-FACTOR... 0.4 BTU/HR-SF-F
AVERAGE GLAZING SHGC..... 0.4
AVERAGE CEILING HEIGHT.... 8 FT

CERTIFICATE OF COMPLIANCE: RESIDENTIAL COMPUTER METHOD *************** PROJECT TITLE..... ROSAS ADD DATE..09/29/11 10:04:06 MICROPASS VS.1 FILE-ROUSSELLE WTH-CTZ08S08
USER--MP2176 USER-A & A DRAFTING RUN-ROSAS BUILDING ZONE INFORMATION

FLOOR • OF • OF COND- THERMO- VENT VENT VERIFIED AREA VOLUME DWELL PEOP- IT- STAT HEIGHT AREA LEAKAGE OR (SF) (CF) UNITS LE IONED TYPE (FT) (SF) HOUSEWRAP RESIDENCE 376 3008 0.22 0.9 YES SETBACK 2.0 STANDARD NO ATTIC AND ROOF DETAILS

ROOF RE- EMISS- FRAME SPAC- VALUE VENT RISE FLECT- IVITY DEPTH ING ABOVE BELOW AREA VENT ANCE (IN.) (IN.) DECK DECK RATIO HIGH ROOF (MASS ((LB/SOFT) инжининами инканами мана канами кинами кинами канами канами инчини попичи попичи попич 4.12 0.08 0.85 3.5 24 OC 0.00 0.00 1/150 0.30 OPAQUE SURFACES

FRAME AREA FACT - CAVITY ING ACT GAINS JA4 LOCATION/ TYPE (SF) OR R-VAL R-VAL AZM TILT REFERENCE COMMENTS

PERIMETER LOSSES APPENDIX INSUL SOLAR JA4 LOCATION/ R-VAL GAINS REFERENCE COMMENTS LENGTH F2 (FT) FACTOR 56 0.730 R-0/0IN NO 4.4.7 A1 TO SLAB EDGE

CERTIFICATE OF COMPLIANCE: RESIDENTIAL COMPUTER METHOD PROJECT TITLE..... ROSAS ADD DATE..09/29/11 10:04:06 MICROPASS VS.1 FILE-ROUSSELLE WTH-CTZ08S08 USER--MP2176 USER-A & A DRAFTING RUN-ROSAS

FENESTRATION SURFACES

EXTERIOR AREA U- ACT SHADE (SF) FACTOR SHGC AZM TILT TYPE LOCATION/COMMENTS 20.0 0.400 0.400 270 90 STANDARD F0101/VINYL/WOOD OPERABL 6.2 0.400 0.400 270 90 STANDARD L0101/VINYL/WOOD OPERABL 12.0 0.400 0.400 180 90 STANDARD R0101/VINYL/WOOD FIXED L 12.0 0.400 0.400 180 90 STANDARD R0103/VINYL/WOOD FIXED L 12.0 0.400 0.400 180 90 STANDARD R0103/VINYL/WOOD FIXED L

. AREA LEFT RIGHT (SF) WIDTH HEIGHT EXTENSION EXTENSION 20.0 N/A 6.66 6.5 .33 1 WINDOW THERMAL MASS

AREA THICK HEAT CONDUCT-(SF) (IN) CAP IVITY - SURFACE UIMC R-VALUE LOCATION/COMMENTS HVAC SYSTEMS

VERIFIED VERIFIED VERIFIED MAXIMUM

REFRIG CHARGE ADEQUATE FAN WATT COOLING
Y EER OR CID AIRFLOW DRAW CAPACITY MINIMUM EFFICIENCY EER *************** NOCOOL ING

CERTIFICATE OF COMPLIANCE: RESIDENTIAL COMPUTER METHOD PROJECT TITLE..... ROSAS ADD * MICROPASS VS.1 FILE-ROUSSELLE WTH-CTZØSØS * USER-MP2176 USER-A & A DRAFTING RUN-ROSAS * VERIFIED SENSIBLE COOLING LOAD (BTU/HR) MAXIMUM COOLING CAPACITY HEATING COOLING CAPACITY SYSTEM TYPE (BTU/HR) (BTU/HR) ********* ****** ****** ****** ****** WALL NOCOOL ING SANTA ANA FS DUCT SYSTEMS ********* VERIFIED VERIFIED VERIFIED
DUCT SURFACE BURIED
LEAKAGE AREA DUCTS DUCT LOCATION R-VALUE WALL NOCOOL ING R-N/A N/A FAN SYSTEMS ******* FLOW (CFM) SYSTEM TYPE (W/CFM) ************* STANDARD 10.36 .25 SPECIAL FEATURES AND MODELING ASSUMPTIONS *** ITEMS IN THIS SECTION SHOULD BE DOCUMENTED ON THE PLANS. ***
*** INSTALLED TO MANUFACTURER AND CEC SPECIFICATIONS. AND ***
*** VERIFIED DURING PLAN CHECK AND FIELD INSPECTION. *** THIS BUILDING INCORPORATES A RADIANT BARRIER. THIS BUILDING INCORPORATES A HIGH MASS DESIGN. THIS BUILDING DOES NOT HAVE A COOLING SYSTEM INSTALLED. MECHANICAL FAN SYSTEM IS NOT REQUIRED TO BE INSTALLED FOR ADDITIONS UNDER CERTIFICATE OF COMPLIANCE: RESIDENTIAL COMPUTER METHOD PROJECT TITLE..... ROSAS ADD DATE..09/29/11 10:04:06 MICROPASE V8.1 FILE-ROUSSELLE WTH-CTZ08S08 USER- MP2176 USER-A & A DRAFTING RUN-ROSAS SPECIAL FEATURES AND MODELING ASSUMPTIONS 1000 SOUARE FEET AS NOTED IN EXCEPTION 5 TO SECTION 152(B). COMPLIANCE STATEMENT *********

THIS CERTIFICATE OF COMPLIANCE LISTS THE BUILDING FEATURES AND PERFORMANCE SPECIFICATIONS NEEDED TO COMPLY WITH TITLE-24. PARTS 1 AND 6 OF THE CALIFORNIA CODE OF REGULATIONS, AND THE ADMINISTRATIVE REGULATIONS TO IMPLEMENT THEM. THIS CERTIFICATE HAS BEEN SIGNED BY THE INDIVIDUAL WITH OVERALL DESIGN RESPONSIBILITY. NAME... AL MACIEL COMPANY. A&A DRAFTING ADDRESS. 2017 W. ALCO AVE SANTA ANA. CA PHONE... (714) 835-1428 NAME... AL MACIEL COMPANY. A & A DRAFTING ADDRESS. 2017 ALCO AVE. SANTA ANA. CA 92703 PHONE... (714) 835-1428 ENFORCEMENT AGENCY NAME... A PROFILE
AGENCY..

PHONE...

TITLE 24 CF-1R FORM

2017 W. Alco Ave Santa Ana California 92703 aadrafting@msn.com Revisions This set of plans is sufficient to ob building permit; however, all materix methods of construction necessary to complete the projuge are not necessarily described this set of plans. The implements of the plans requires a Owner/contractor (General Contract) knowledgeable with the applicable codes and methods of construction. The plans and derectable construction. The plans and geret² notes delineate and describe only locations, dimensions, types of materials and general methods of assembling or fastening. They are not intended to specify particular products or other methods of any specific material, product or method. Plan preparer:

PREPARED BY:

DRAFTING

Al Maciel H 714 /835 1428

0 LOT 2 11-09 ----BLK 016-Ana 988 PN N

Guillermo Rosas

Sheet content: TITLE 24

(714) 574-4959

SHEET NUMBER: