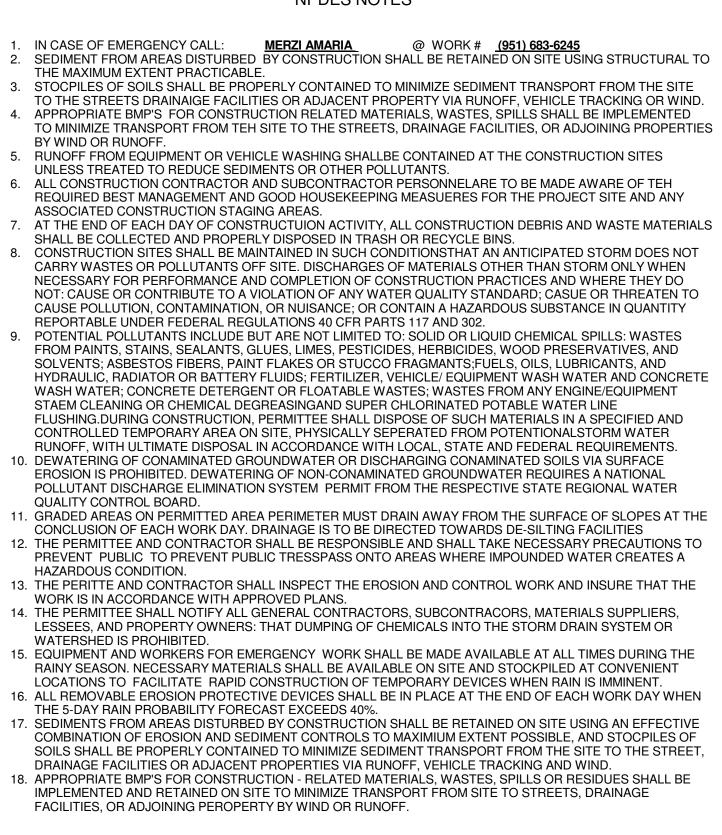
	General Notes1		Sequence Of Drawings
Number	Note	NUMBER	DESCRIPTION
1	LUMBER SHALL BE GRADE STAMPED AND CONFORM TO THE FOLLOWING	A100	Site Plan
•	MINIMUM STANDARDS:	A200	Floor Plans
	A) STRUCTURAL LUMBER TO BE WEST COAST DOUG FIR NO. 2 OR BETTER	A400	Elevations
	(ÚNLESS NOTED OTHERWISE) THIS INCLUDES BEAMS, HEADERS, BLOCKING,	A500	Sections
	DIAGONALBRACES, PLATFORMS, STRINGERS, JOISTS, RAFTERS AND POSTS. (BEAMS 4 x 12 AND LARGER TO BE DOUG FIR #1 & BTR.)	D100	Details
	B) STUDS MAY BE "CONSTRUCTION GRADE" DOUGLAS FIR OR #1 & BETTER.	D102	Details
	C) TOP PLATES MAY BE "CONSTRUCTION GRADE" HEM FIR OR DOUGLAS FIR.	S100	Foundation / Framing Plan
	D) SILL PLATES IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED	SN-1	General Notes
	"WOLMANIZED" OR FOUNDATION GRADE REDWOOD E) TRUSS MEMBERS AND COMPONENTS SHALL NOT BE CUT, DRILLED, NOTCHED,		
	OR OTHERWISE ALTERED IN ANY WAY WITHOUT WRITTEN CONCURRENCE AND	E001	Single Line
	APPROVAL OF A REGISTERED DESIGN PROFESSIONAL	E101	T-24
2	STRUCTURAL CONNECTOR REFERENCES ARE TO "SIMPSON STRONG-TIE"	E102	T-24
-	CONNECTORS ICC APPROVED	E201	Power Floor Plans
3	NO STRUCTURAL MEMBER SHALL BE SERIOUSLY WEAKENED OR IMPAIRED BY	E301	Details
	CUTTING OR NOTCHING	E401	Specs
4	CONSTRUCTION OF THIS PROJECT SHALL BE IN ACCORDANCE WITH THE		· ·
	CALIFORNIA MODIFIED VERSION (TITLE 24, 2010 EDITION) OF THE FOLLOWING CODES:		
	2013 CALIFORNIA BUILDING CODE,		
	2013 CALIFORNIA PLUMBING CODE,		
	2013 CALIFORNIA MECHANICAL CODE,		
	2013 CALIFORNIA ELECTRICAL CODE		
	2013 CALIFORNIA FIRE CODE, 2013 CALIFORNIA ENERGY CODE		
	2013 CALIFORNIA GREEN BUILDER CODE		
	"AMERICANS WITH DISABILITIES ACT" (ADA)		
	LLCCP SPECIFICATION, REVISION 2.01		
	HEALTH AND SAFETY CODE (HSC), SECTION 13145		
	CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24		
	ALL OTHER APPLICABLE LAWS AND REGULATIONS		
5	DRAINAGE PIPING IN THE GROUND SHALL BE LAID ON A FIRM BED FOR ITS ENTIRE		
	LENGTH AND BACKFILLED IN THIN LAYERS TO 12" ABOVE TOP OF PIPE WITH		
	CLEAN EARTH, FREE FROM STONES AND BOULDERS. DRAIN PIPE SHALL BE A		
_	MINIMUM OF 3" DIAMETER WITH 2% MIN. SLOPE.		
6	OFFSET PLUMBING OUT OF BEARING FOOTINGS.		
7	FIXTURES, DEVICES AND EQUIPMENT SHALL COMPLY WITH APPLICABLE CEC REGULATIONS.		
8	THE MANUFACTURED WINDOWS SHALL HAVE A LABEL ATTACHED CERTIFIED BY	1	
	THE NATIONAL FENESTRATION RATING COUNCIL (NFRC) AND SHOWING COMPLIANCE WITH THE ENERGY CALCULATIONS.		
9	APPROVAL OF THESE PLANS BY THE BUILDING DEPARTMENT DOES NOT INCLUDE	1	
0	APPROVAL OF THESE PLANS BY THE BUILDING DEPARTMENT DOES NOT INCLODE APPROVAL FOR ANY TYPE OF ALARM SYSTEM THAT MAY BE SHOWN OR		
	REQUIRED. SEPARATE APPROVALS FOR ANY ALARM SYSTEMS MUST BE		
	OBTAINED.		
10	ALL STEEL REINFORCEMENT TO COMPLY WITH ASTM-615, GRADE 40 AND 60		
12	NO QUANTITIES OF HAZARDOUS MATERIALS IN EXCESS OF TABLE 307.1 (1) ARE INTENDED AS A CONDITION OF OCCUPANCY		
13	NO AIR QUALITY CHECKLIST OR ALTERNATE MATERIALS APPLICATION IS		
15	REQUIRED AS A PART OF THIS PERMIT APPLICATION		
14	SPECIAL INSPECTION IS REQUIRED FOR ALL SUSPENDED CEILING SYSTEMS		
15	COMPUSTIBLE FRAMING (CEILING, WALLS, ROOF, ETC.) WITHIN 18" OF ANY EXHAUST HOOD SHALL BE 1 HOUR RATED PER CMC 507.2.		
16	FIRE EXTINGUISHER LOCATIONS/TYPES SHALL BE REVIEWED AND CONFIRMED BY THE FIRE PREVENTION INSPECTOR. CONTACT AT (909) 799-2858 PRIOR TO FRAMING INSPECTION		
17	SEPARATE FIRE SPRINKLER PLANS AND SPECIFICATIONS SHALL BE SUBMITTED TO FIRE PREVENTION FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.		
18	PARTICIPATION IN THE "KNOX" BOX SYSTEM OF KEY ACCESS SHALL BE REQUIRED. VISIIT CITY HALL TO ACQUIRE A "SIGNED" ORDER APPLICATION & TO DISCUSS INSTALLATION. CONTACT FIRE MARSHALL @ 909-799-2853.		

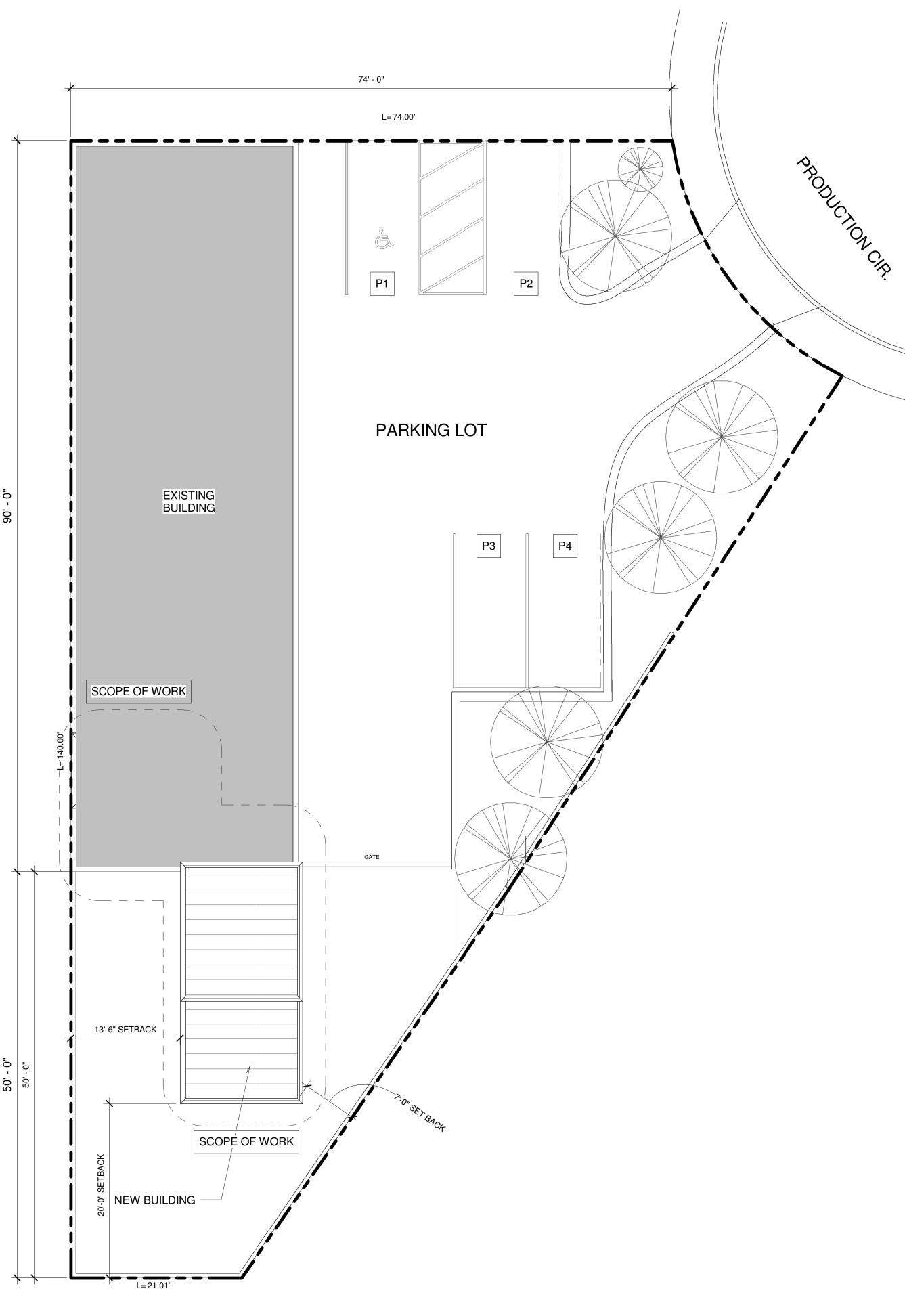
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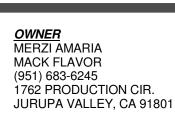




# **OFFICE & INDUSTRIAL BUILDING:** MACK FLAVOR

## 1762 PRODUCTION CIR. JURUPA VALLEY, CA 91801





## PROJECT ADDRESS: 1762 PRODUCTION CIR. RIVERSIDE CA 91801

COUNTY NAME RIVERSIDE

ASSESSOR PARCEL NUMBER:

ASSESSOR LEGAL DESCRIPTION: 21 ACRES NET IN PAR 31 PM 166/012 PM 22866

SCOPE OF WORK:

NEW 392 SF MACHIINE ROOM BUILDING FOR DRYER SYSTEM

PROPERTY DATA: ASSESSOR'S ID NO ADDRESS: PROPERTY TYPE: LEGAL DESCRIPTION: LOT SIZE: SQUARE FOOTAGE:

PROPOSED PROJECT:

FIRE SPRINKLERS REQUIRED:

OCCUPANCY:

175270031-0 1762 PRODUCTION CIR. JURUPA VALLEY, CA 91801 SINGLE FAMILY RESIDENTIAL LOT 31 PM 166/012 PM2286 021 ACRES 2515 SQ. FT.

RELATED PROPERTY INFO: CITY SPHERE: LAND USE DESIGNATION FEMA FLOOD PLAN.

JURUPA VALLEY FLOOD ZONE X

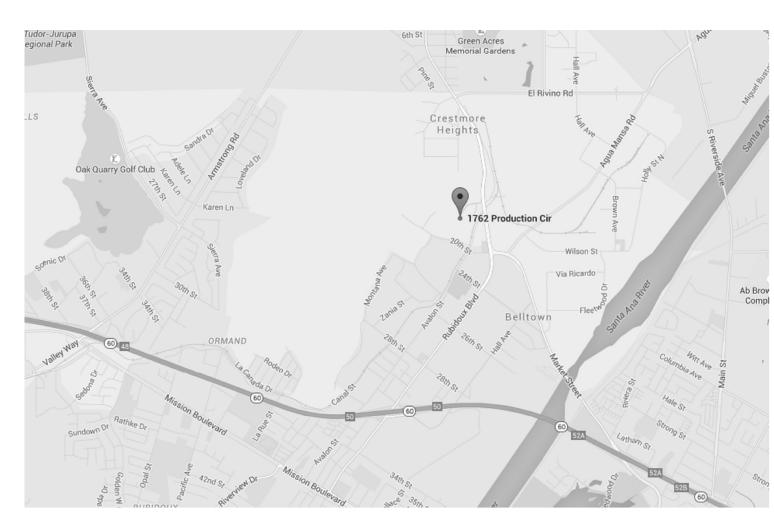
NEW 392 SQ. FT. MACHINE ROOM ADDITION TYPE OF CONSTRUCTION: 2-B

YES

<u>DEFERRED SUBMITTALS:</u> DEFERRED SUBMITTALS SHALL BE REVIEWED BY THE PROJECT ARCHITECT OR ENGINEER OF RECORD AND CERTIFIED PRIOR TO SUBMITTAL FOR PLAN REVIEW. A SEPARATE PLAN REVIEW AND FEE SHALL BE REQUIRED FOR ALL DEFERRED SUBMITTALS AND MUST BE APPROVED BY THE BUILDING OFFICIAL. FIRE SPRINKLERS

PARKING: NO CHANGE

### SPECIAL INSPECTIONS REQUIRED 1. REQUIRED FOR BOLTS INSTALLED WITH EPOXY IN EXISTING CONCRETE OR IN NEW CONCRETE AFTER IT HAS SET AND GAINED STRENGTH 2. REQUIRED FOR STRUCTURAL WELDING (FILLET WELDING)



**<u>VICINITY MAP</u>** 12" = 1'-0"

**1762 PRODUCTION CIR. JURUPA VALLEY, CA 91801** 



Site Plan



15-608 9-23-15

**MACK FLAVOR** 

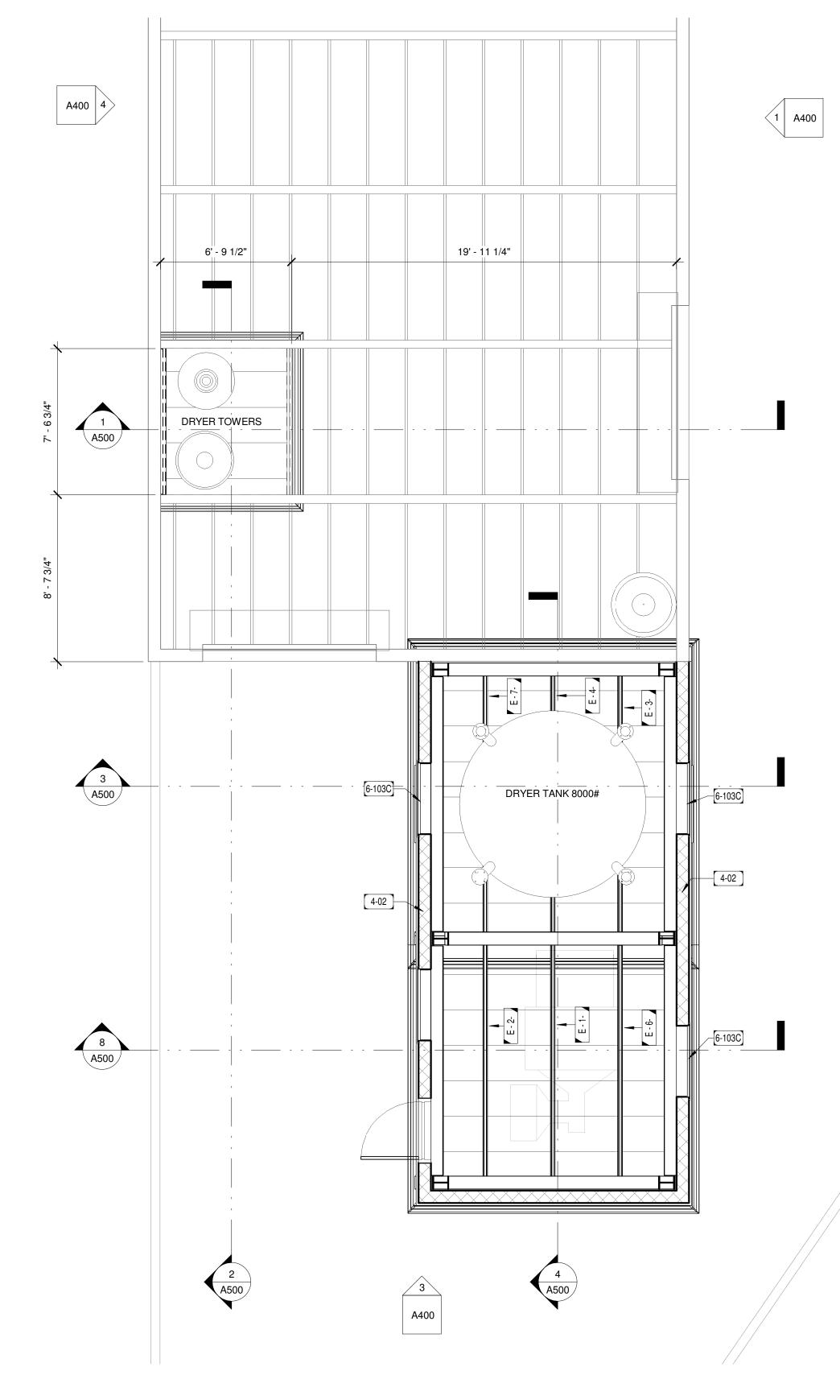
**OFFICE & INDUSTRIAL BUILDING:** 

Revision

Date



	Door Schedule													
Descrij Number	•	Door Name	Туре	Width	Height		Do		Glass	Fire Rated	-	ame Finish	Det Head	ails Threshold
Number	Type		туре	width	TEIGIII	THICKIESS	wateria	1 111511	01055	The naleu	ivialei iai	1 111511	i iedu	THESHOL
139	0	Single - Flush - HM	3070	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PT			PS	PT		



3 REFLECTIVE CEILING PLAN

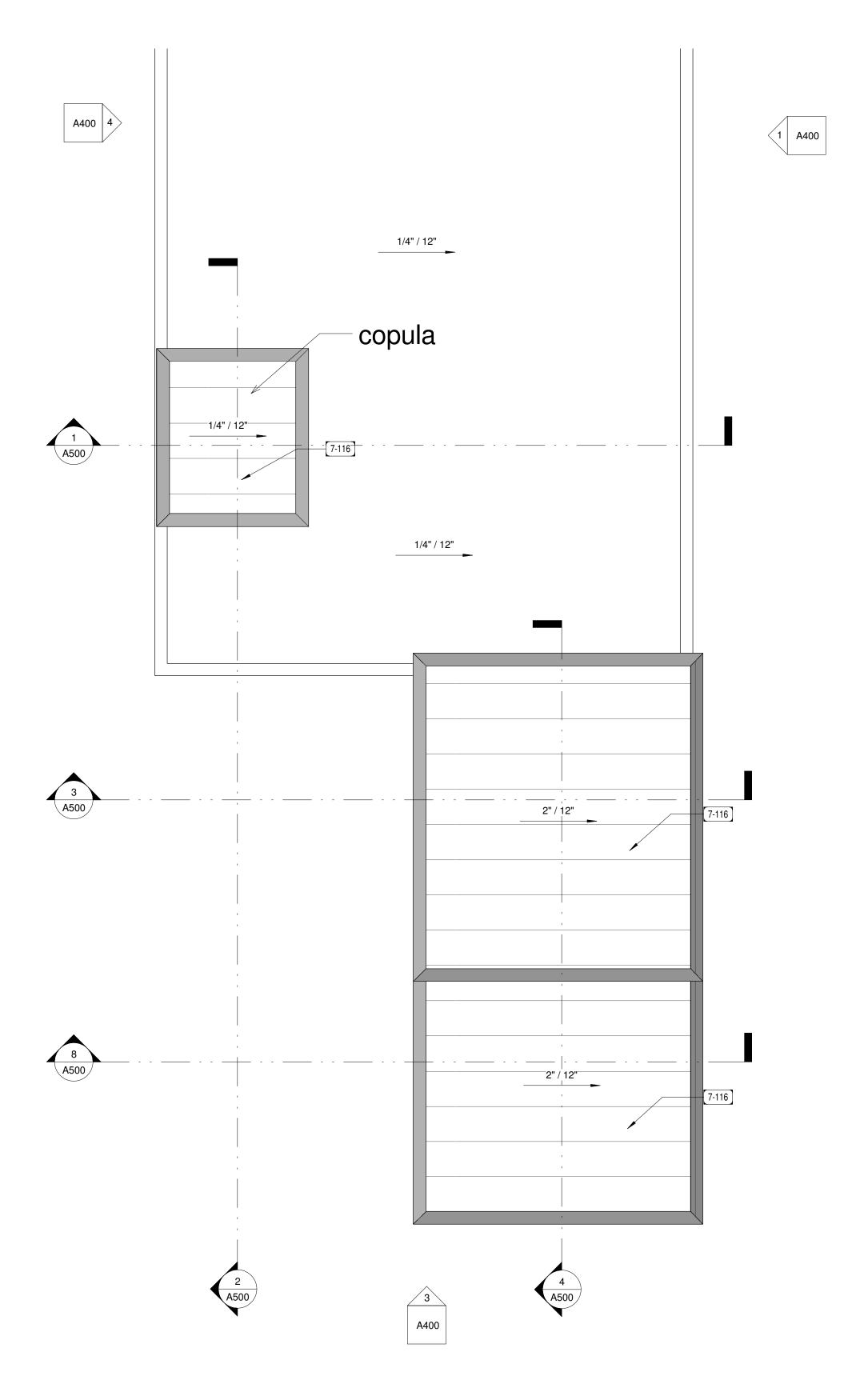
DOOR		FRAME	1
MATERIAL		•	
WD	WOOD	MATERIA	L
AL/GL	ALUMINUM / GLASS	AL	ALUMINUM
AL	ALUMINUM	STL	STEEL
НМ	HOLLOW METAL	НМ	HOLLOW METAL
PS	PRESSED STEEL		
FINISH			
SCF	STAIN & CLEAR FINISH	FINISH	
		Р	PAINT
PT F	PAINT	F	FACTORY
REMARK	FACTORY		
R1	CLOSER	WINDO	W
R2	HANDICAP ACCESSIBILITY SIGN		
R3	WEATHERSTRIP	GLAZING	i
R4	10" METAL KICK PLATES	TEMP. TI	EMPERED GLASS
R5	PANIC DEVICE	WG. WIF	REGLASS
R6	SMOKE GASKETS	DG. DUA	L GLAZING
R7 R8	SPANDREL GLASS		



HOURS"

INSTALL SIGN OVER MAIN EXIT DOOR "THIS

DOOR TO REMAIN UNLOCKED DURING BUSINESS



2 <u>**ROOF PLAN**</u> 1/4" = 1'-0"

### **GENERAL NOTES**

EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. MAXIMUM EFFORT TO OPERATE DOORS:

EXTERIOR - 5.0 LBS INTERIOR - 5.0 LBS FIRE DOORS - 15.0 LBS

VERIFY ALL DOOR FRAME THROAT SIZES WITH FINISHED WALL THICKNESS PRIOR TO ORDERING FRAMES.

FIRE RATED DOORS AND FRAMES SHALL HAVE AN APPROVED LABEL.

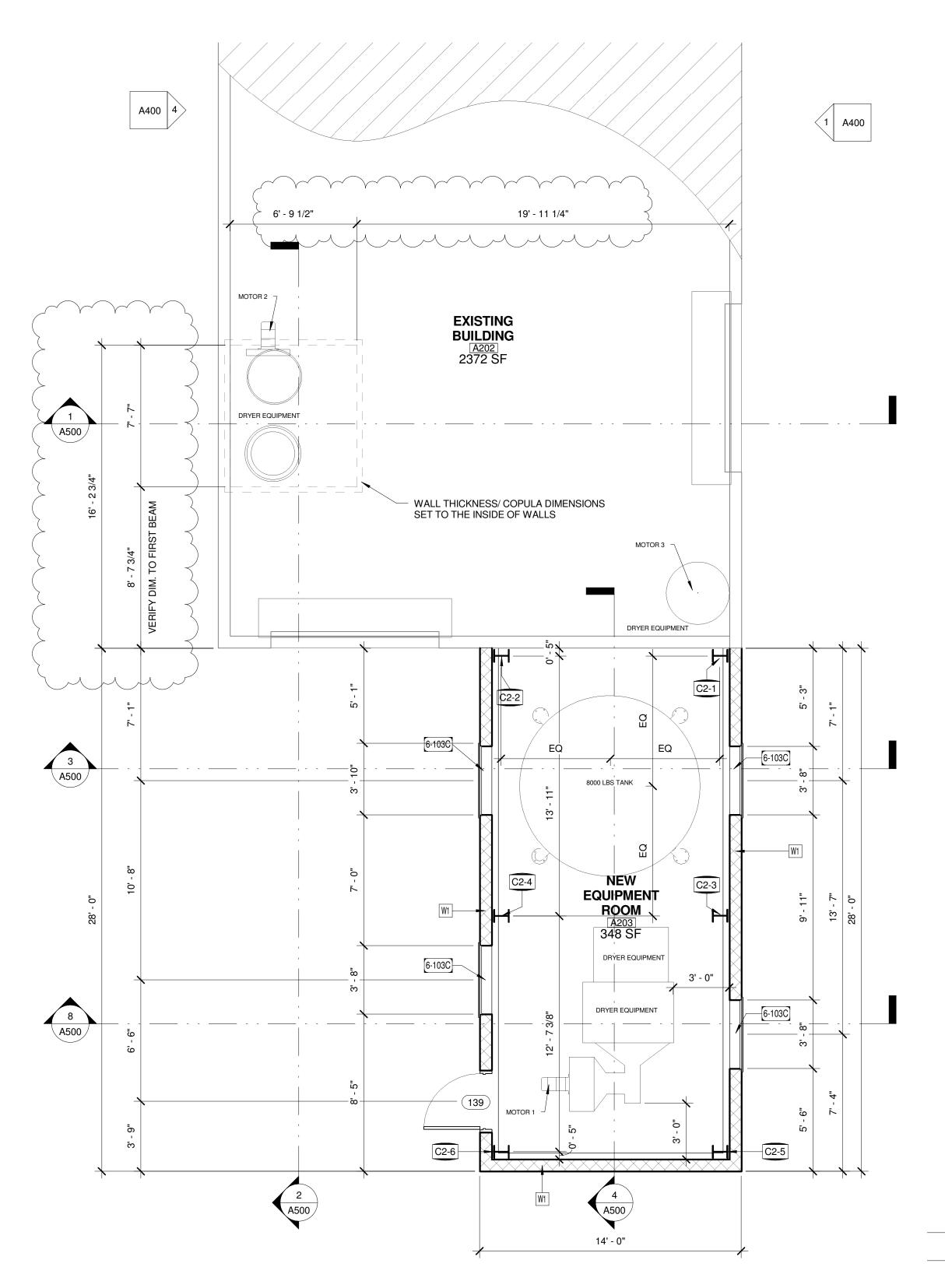
CLOSER.EFFORT TO OPERATE DOORS. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS (38 N) FOR EXTERIOR AND INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO THE MINIMUM ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS (66.72 N).

**DOOR CLOSER.** IF THE DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 INCHES (75 MM) FROM THE LATCH, MEASURED TO THE LANDING EDGE OF THE DOOR.

HAND-ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 30 INCHES (762 MM) AND 44 INCHES (1118 MM) ABOVE THE FLOOR. LATCHING AND LOCKING DOORS THAT ARE HAND- ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTI- VATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITH- OUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. LOCKED EXIT DOORS SHALL OPERATE AS ABOVE IN EGRESS DIRECTION. DOORS TO IN- DIVIDUAL HOTEL OR MOTEL UNITS SHALL OPERATE SIMILARLY. EXCEPT THAT WHEN A BOLT AND UNLATCHING OPERATION IS KEY OPERATED FROM CORRI- DOR OR EXTERIOR SIDE OF UNIT DOOR, LARGE BOW KEYS 2 INCHES (51 MM) (FULL BOW) OR 11/4 INCHES (32 MM) (HALF BOW) SHALL BE PROVIDED ÎN LIEU OF LEVER-TYPE HARDWARE ON THE CORRIDOR SIDE. SEPARATE DEAD- LOCK ACTIVATION ON ROOM SIDE OF CORRIDOR DOORS IN HOTELS OR MOTELS SHALL HAVE LEVER HANDLE OR LARGE THUMB

TURN ON AN EASILY REACHED LOCATION.

	Keynote Legend	
Key Value	Keynote Text	
4-02	8 x 8 x 16 CONCRETE BLOCK (SOLID GROUT ALL CELLS WITH REINFORCING) WALL WITH (1) #5 VERTICAL AT 32 ON CENTER AND (1) #4 HORIZONTAL AT 32 ON CENTER (SINGLE SCORE PRECISION BLOCK)	
6-103C	48" X 48" LOUVERED VENT WITH 1/8" MAXIMUM ALUMINUM SCREEN WIRE MESH	M
6-980	BEAM (SEE FRAMING PLAN)	
7-116	CONTINUOUS 22 GAUGE STANDING SEAM METAL WALL OR ROOF PANEL WITH CONCEALED CLIP FASTENERS RIB-ROOF METAL SYSTEMS	



1 <u>FLOOR PLAN</u> 1/4" = 1'-0" 9-23-15 1762 PRODUCTION CIR. JURUPA VALLEY, CA 91801

**Floor Plans** 

# **A200**

15-608

**MACK FLAVOR** 

OFFICE & INDUSTRIAL BUILDING:

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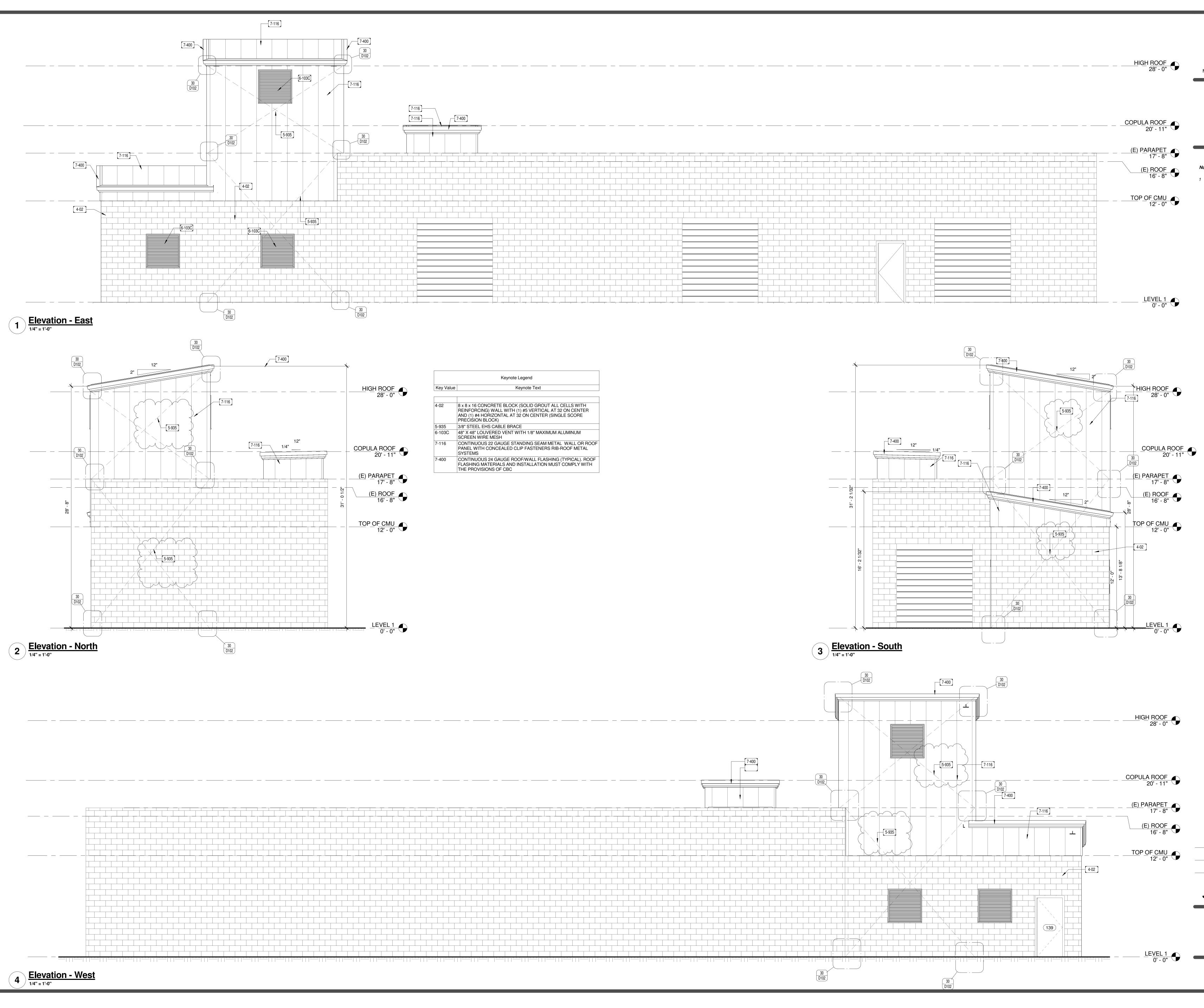
Revision 1

1

Revision Description

Date Date 1







 7-116       7-116       7-400	 C

GH ROOF	
28' - 0"	$\Box$

JLA ROOF	
20' - 11"	

	-,
ey Value	Keynote Text
02	8 x 8 x 16 CONCRETE BLOCK (SOLID GROUT ALL CELLS WITH REINFORCING) WALL WITH (1) #5 VERTICAL AT 32 ON CENTER AND (1) #4 HORIZONTAL AT 32 ON CENTER (SINGLE SCORE PRECISION BLOCK)
935	3/8" STEEL EHS CABLE BRACE
103C	48" X 48" LOUVERED VENT WITH 1/8" MAXIMUM ALUMINUM SCREEN WIRE MESH
116	CONTINUOUS 22 GAUGE STANDING SEAM METAL WALL OR ROOF PANEL WITH CONCEALED CLIP FASTENERS RIB-ROOF METAL SYSTEMS
400	CONTINUOUS 24 GAUGE ROOF/WALL FLASHING (TYPICAL). ROOF FLASHING MATERIALS AND INSTALLATION MUST COMPLY WITH THE PROVISIONS OF CBC

Elevations

# **A400**

9-23-15 **1762 PRODUCTION CIR.** JURUPA VALLEY, CA 91801

15-608

## **MACK FLAVOR**

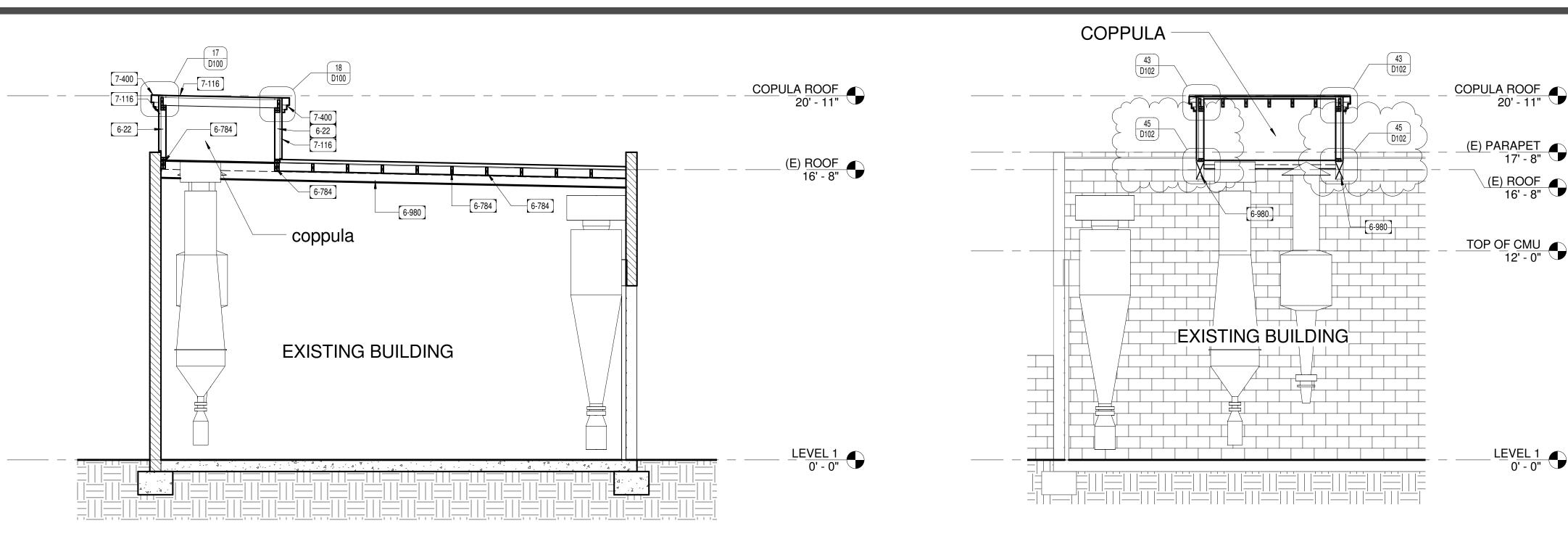
**OFFICE & INDUSTRIAL BUILDING:** 

Revision 1

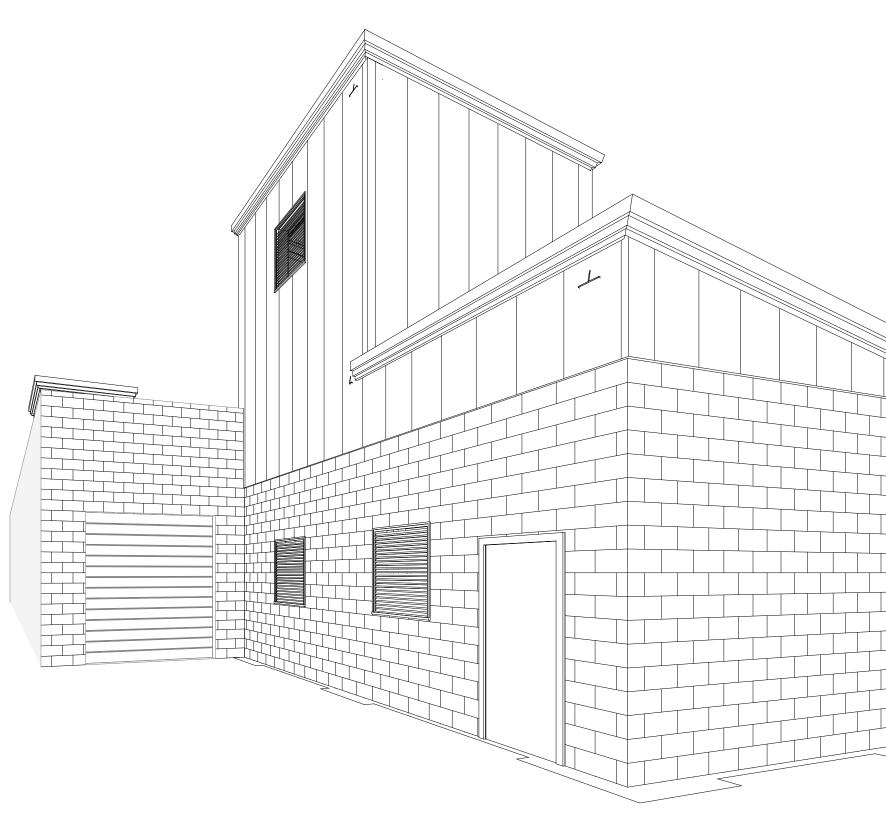
Revision

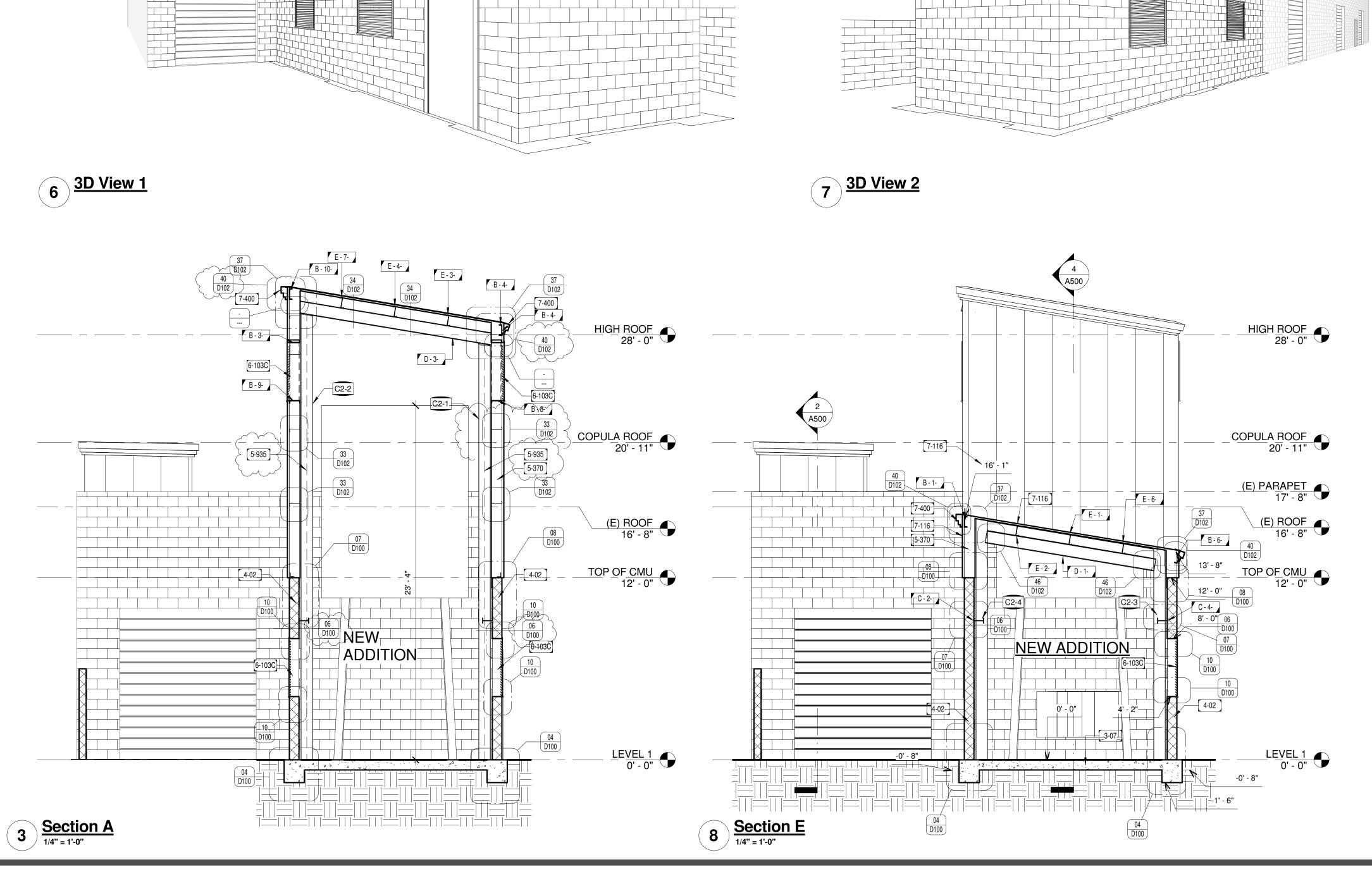
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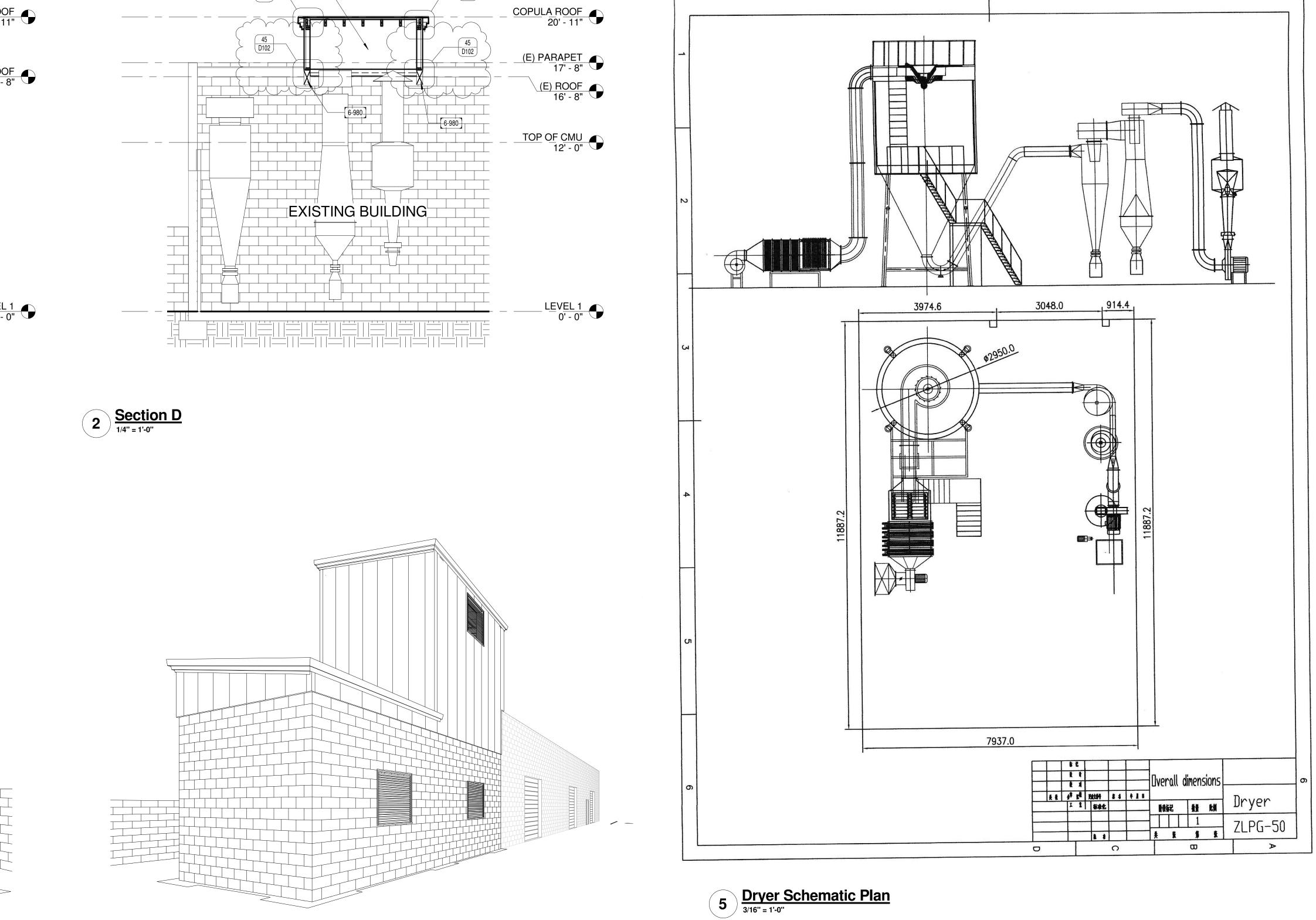




**Section C** 1/4" = 1'-0" (1

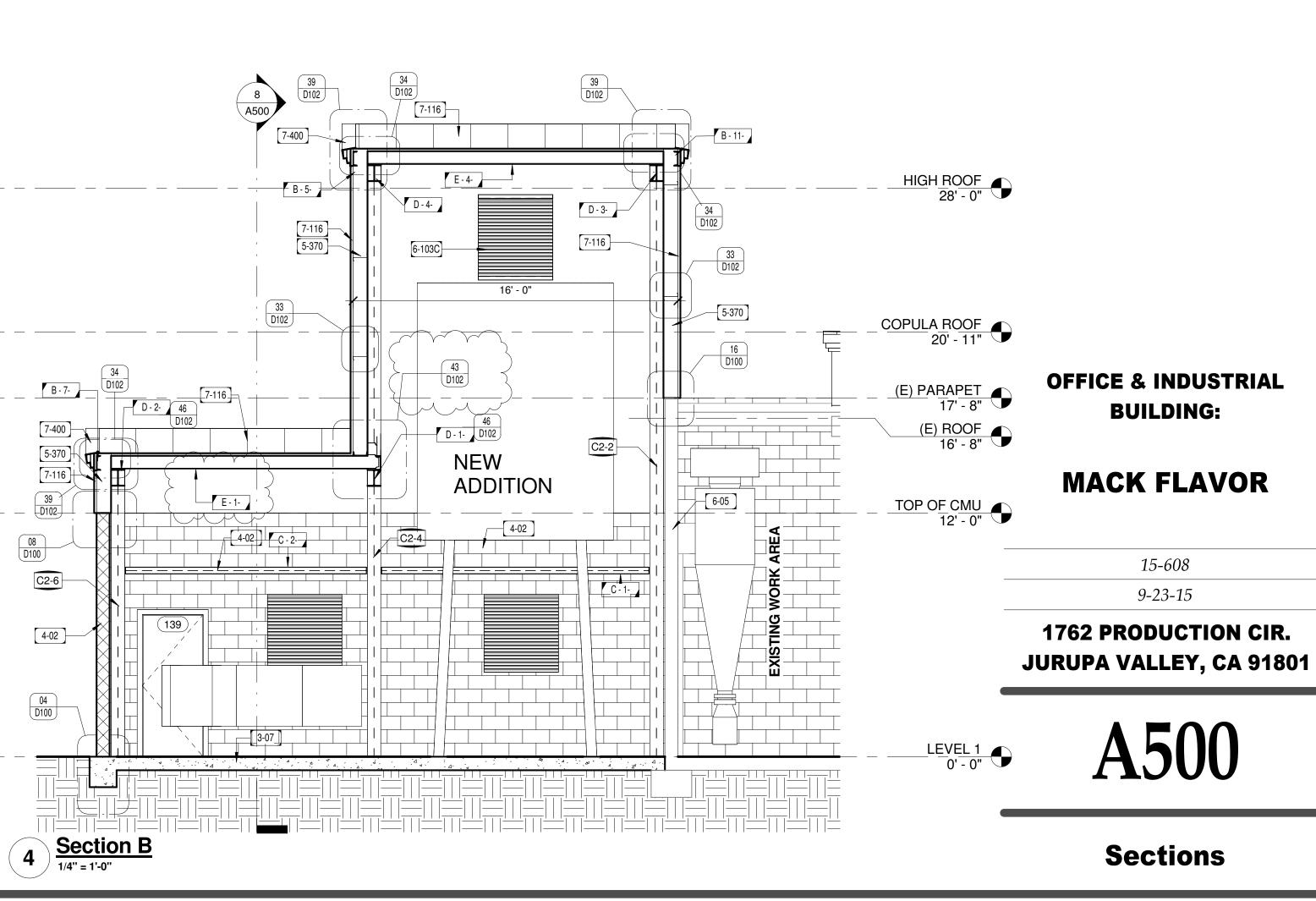


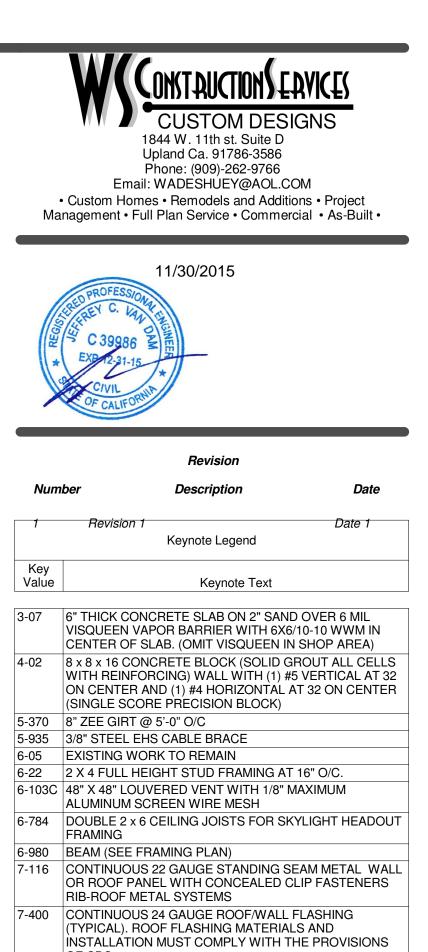




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OF CBC

**OFFICE & INDUSTRIAL BUILDING:** 

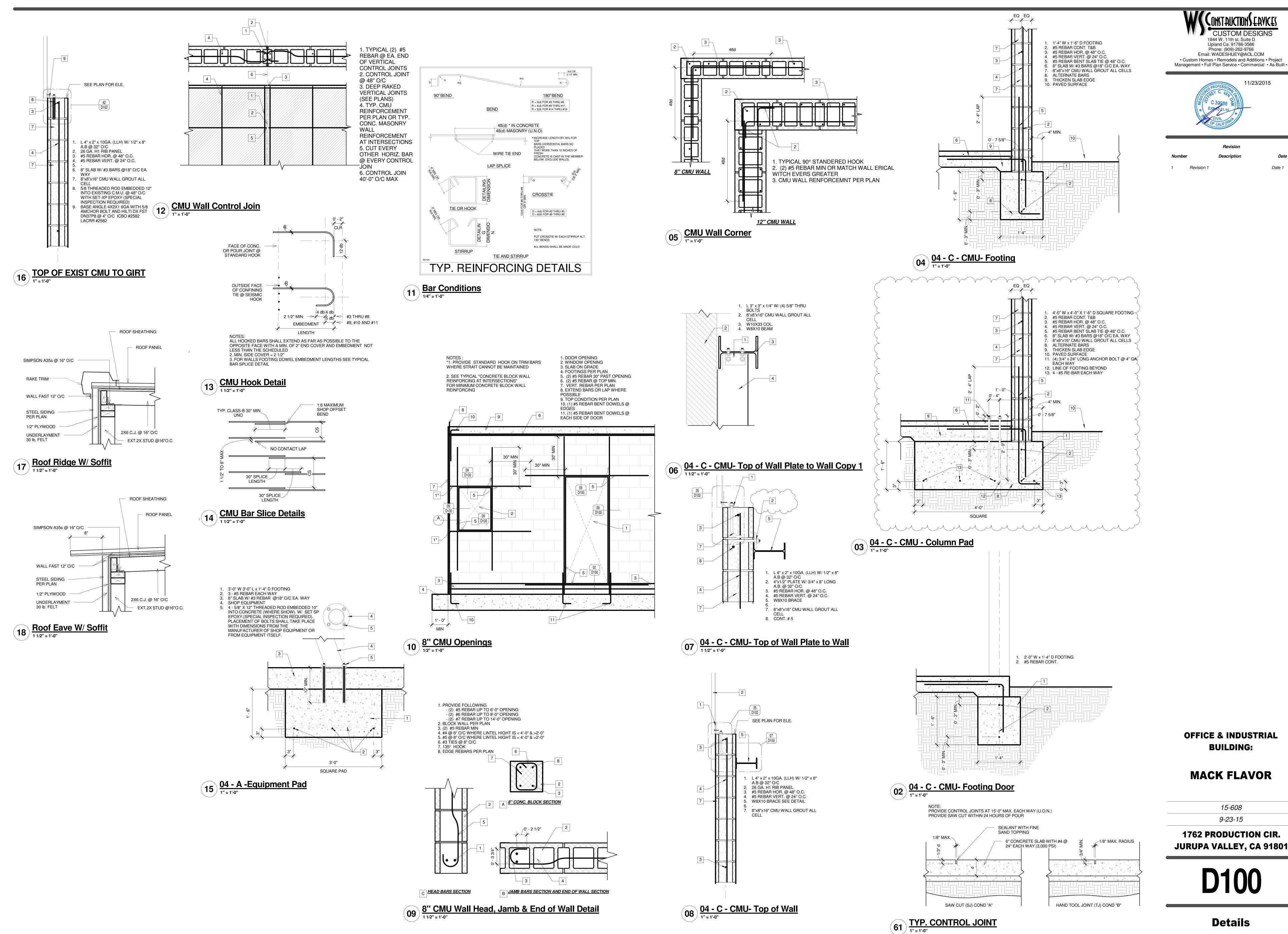
**MACK FLAVOR** 

15-608

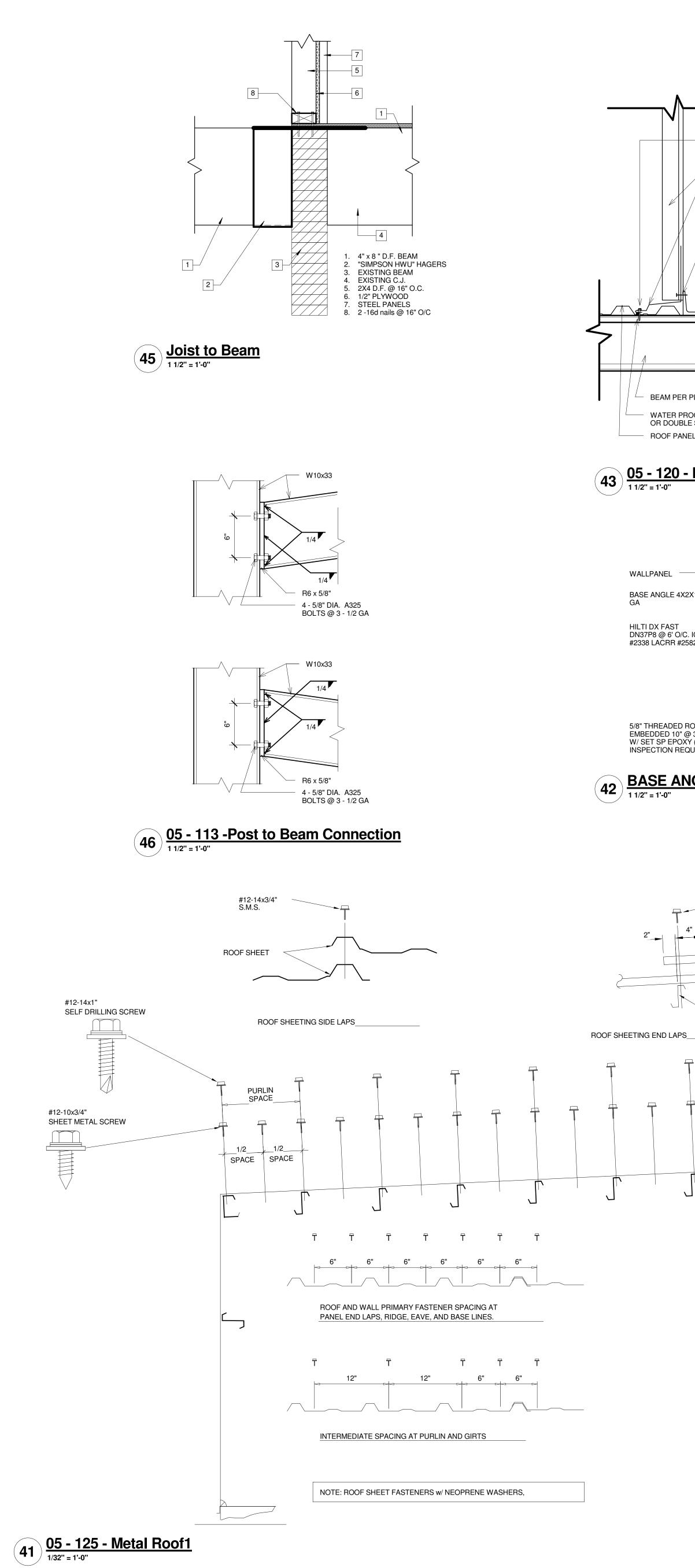
9-23-15

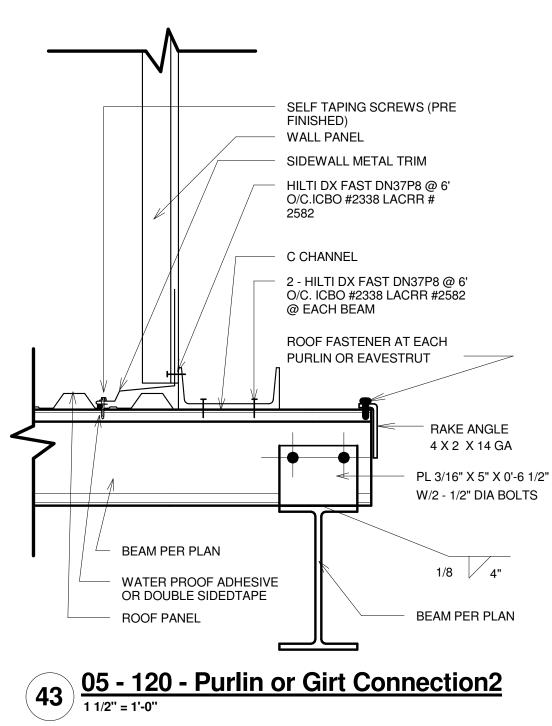
A500

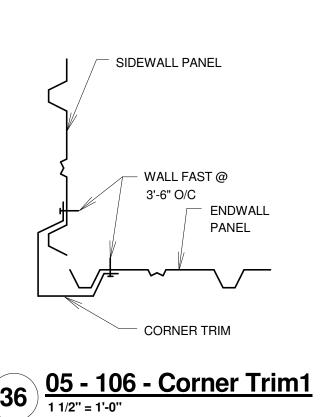
**Sections** 

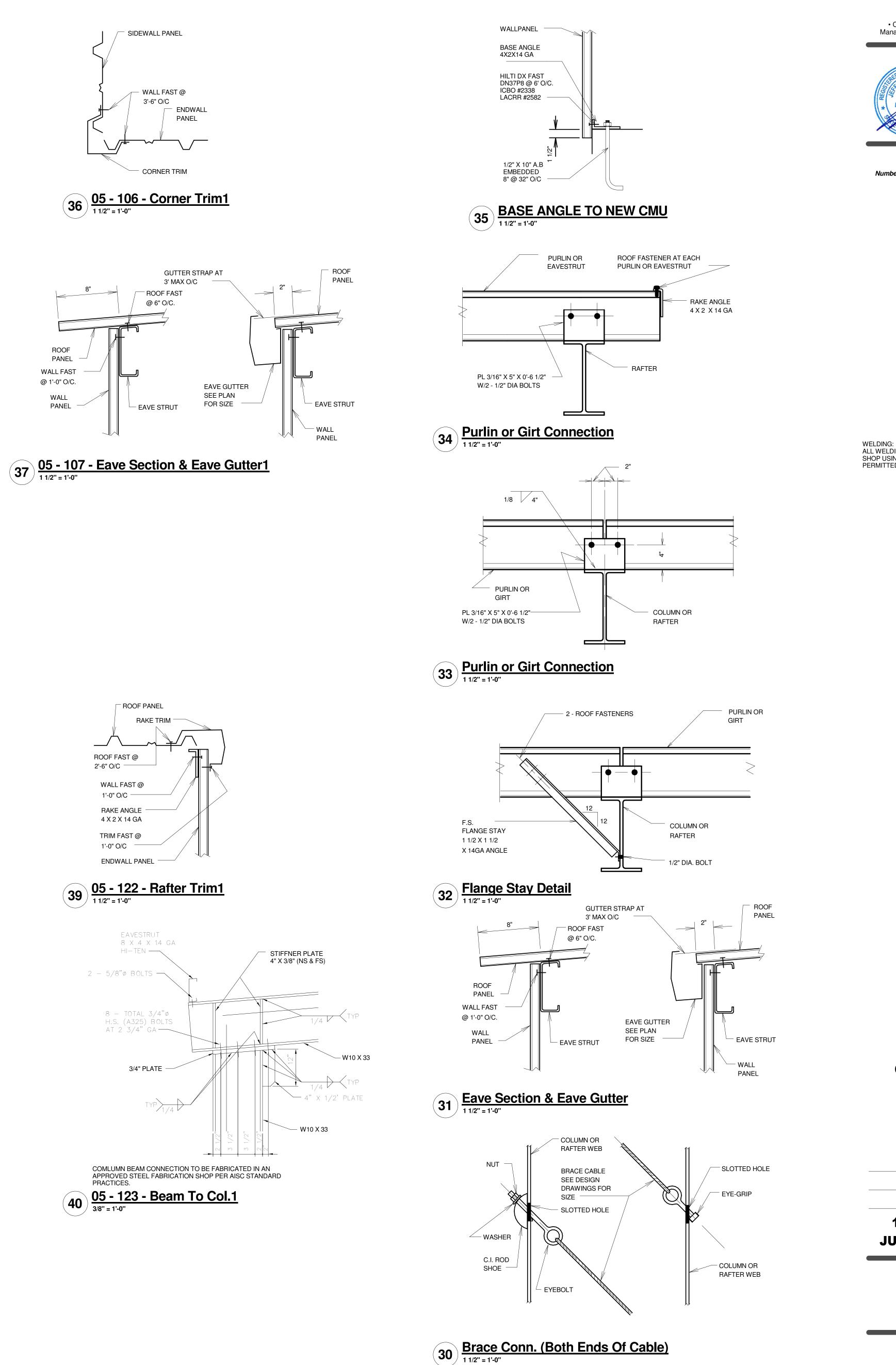




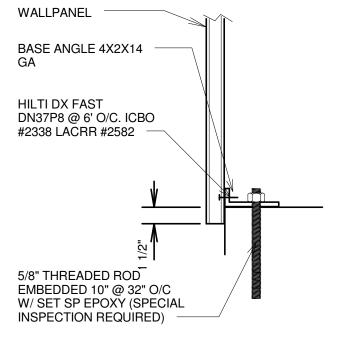




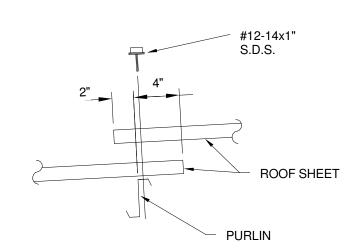


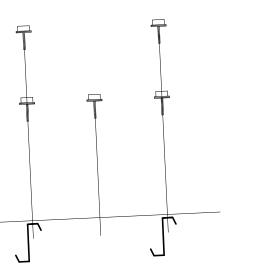


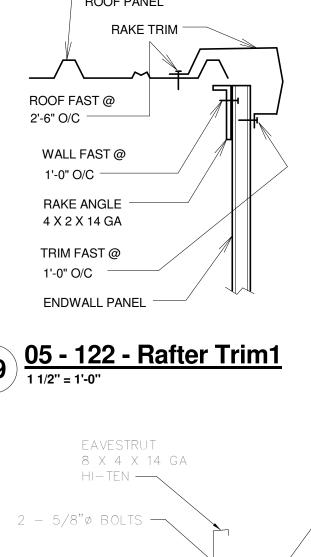


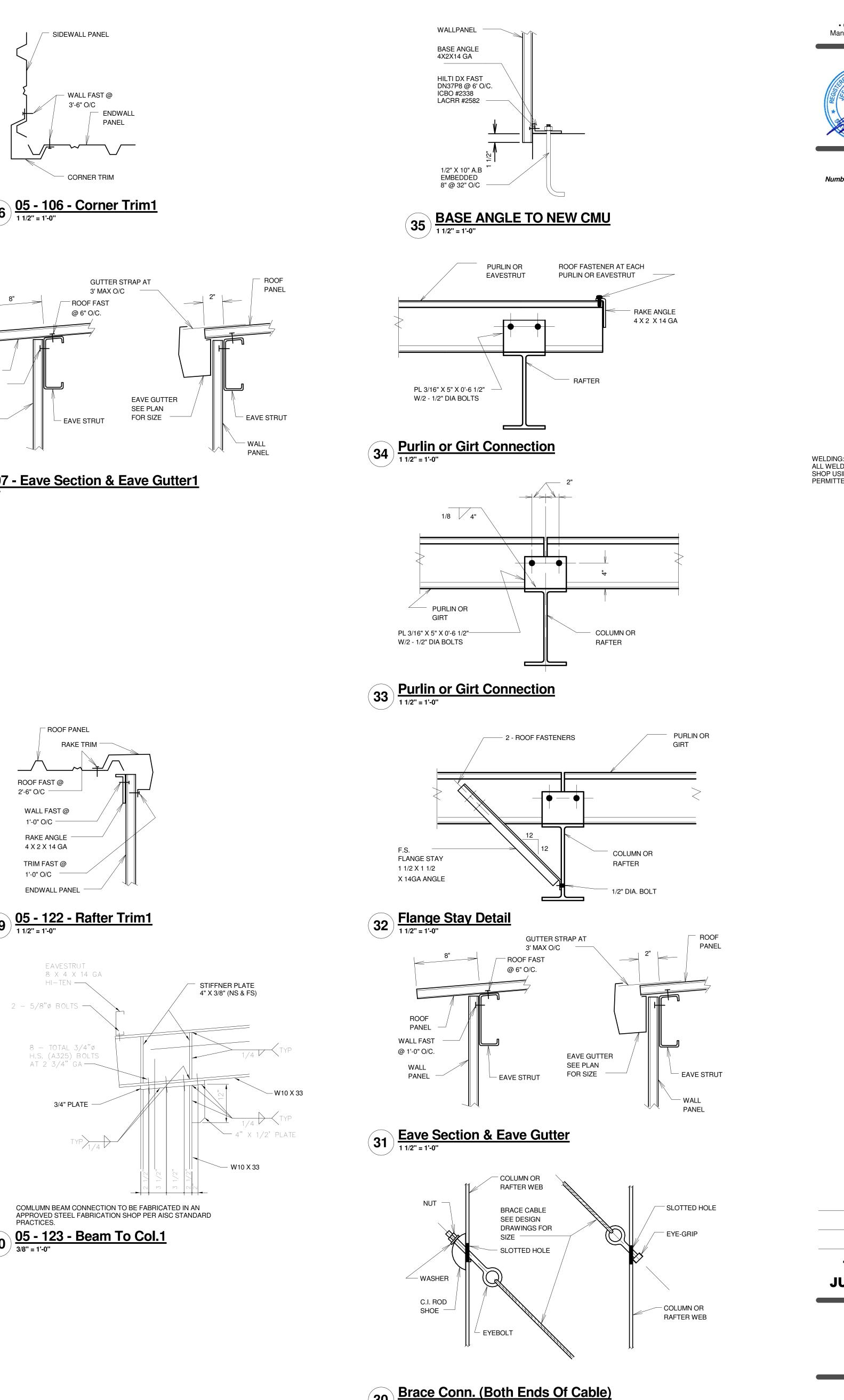














# D102

**1762 PRODUCTION CIR.** JURUPA VALLEY, CA 91801

15-608 9-23-15

**MACK FLAVOR** 

**OFFICE & INDUSTRIAL BUILDING:** 

WELDING: ALL WELDING SHALL BE DONE IN AN APPROVED FABRICATION SHOP USING E70XX ELECTRODES. NO FIELD WELDING PERMITTED.

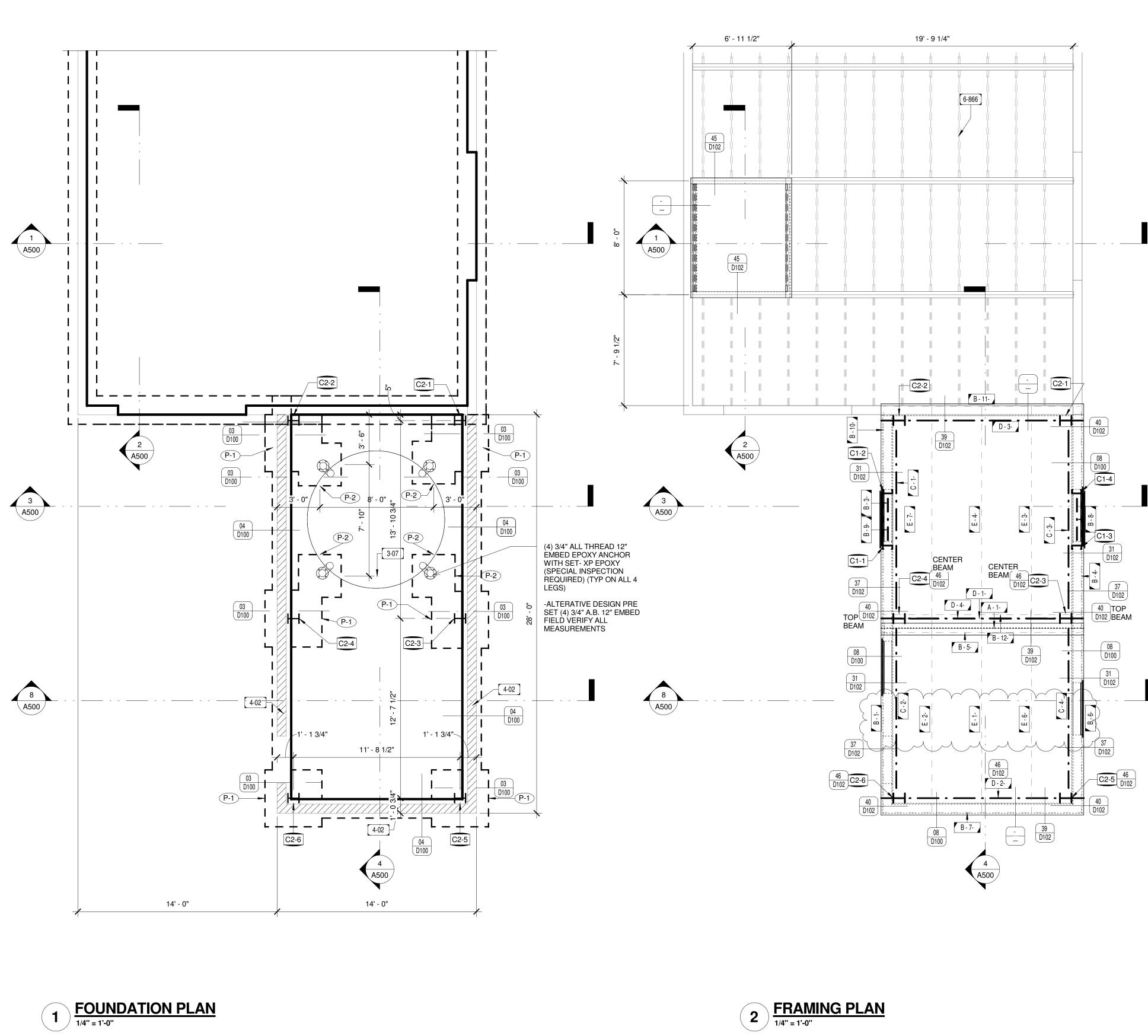
1844 W. 11th st. Suite D Upland Ca. 91786-3586 Phone: (909)-262-9766 Email: WADESHUEY@AOL.COM Custom Homes • Remodels and Additions • Project
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TRUCTION**S**ERVICI

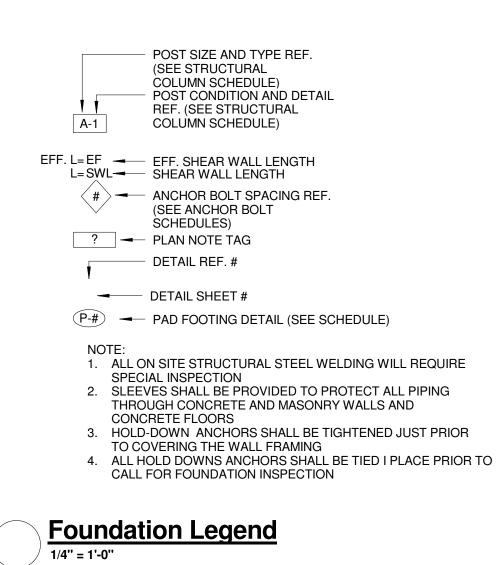
CUSTOM DESIGNS

Revision

Description



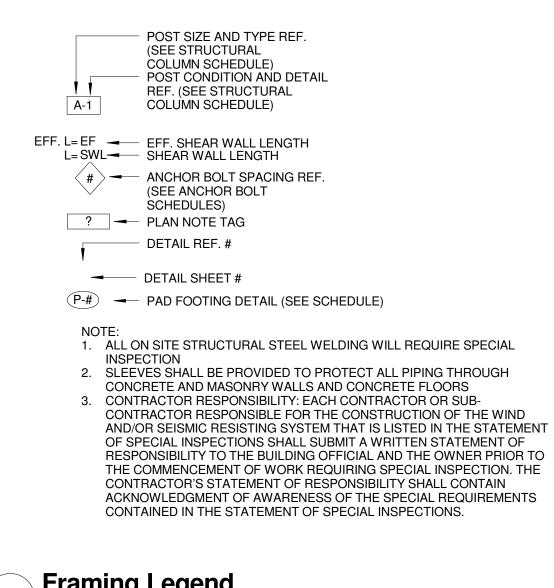




Size Type	Numbe
	I
A	1
C8.5X11.5:	1
В	
В	0
B	6
В	7
В	1
В	12
В	8
В	9
В	
В	3
В	4
В	5
В	10
B	11
C8X11.5: 1	
С	1
С	2
С	3
С	4
W8X10: 4	
D	1
D	2
D	3
D	4
W10X33: 4	1
E	6
E	1
E	2
E	3
E	4
E	7
Z8" x 1.5" x	18ga.: 6

	Colum Schedule							
Size Type	Number	Туре	Family	Count	Hardware (Bot)	Hardware (Top)	Lower Detail	Upper Detail
01	4		Liekt Course Stude Column	4				
C1	1	C8" x 3" x 14GA.	Light Gauge-Studs-Column					
C1	2	C8" x 3" x 14GA.	Light Gauge-Studs-Column	1				
C1	3	C8" x 3" x 14GA.	Light Gauge-Studs-Column	1				
C1	4	C8" x 3" x 14GA.	Light Gauge-Studs-Column	1				
C8" x 3"	x 14GA.		·	4				
C2	1	W10X33	W-I-sections (with constant flange thickness)-Column	1				
C2	2	W10X33	W-I-sections (with constant flange thickness)-Column	1				
C2	3	W10X33	W-I-sections (with constant flange thickness)-Column	1				
C2	4	W10X33	W-I-sections (with constant flange thickness)-Column	1				
C2	5	W10X33	W-I-sections (with constant flange thickness)-Column	1				
C2	6	W10X33	W-I-sections (with constant flange thickness)-Column	1				
W10X33	3	4		6				

Type Mark	
P-1	4'-0
P-2	3'-0



Framing Legend

	Beam Schedule2										
		Categ	Start Level	End Level	Reference						
er	Туре	ory	Offset	Offset	Level	Cut Length	Comments				
	1		1				1				
	C8.5X11.5		4' - 1 1/4"	1' - 8 1/2"	TOP OF CMU	14' - 5 3/8"					
			1								
	C8X11.5		-0' - 4 1/2"	-0' - 4 1/2"	HIGH ROOF	3' - 8"					
	C8X11.5		-0' - 4 1/2"	-0' - 4 1/2"	HIGH ROOF	3' - 8"					
	C8X11.5		13' - 8"	13' - 8"	LEVEL 1	13' - 4 1/8"	Supported by D-1 and D-2				
	C8X11.5		13' - 8"	16' - 0 1/2"	LEVEL 1	14' - 3 3/8"	~				
	C8X11.5		16' - 0 1/2"	16' - 0 1/4"	LEVEL 1	13' - 7 1/2"	Supported by D-1 and D-2				
	C8X11.5		16' - 0 1/2"	13' - 8"	LEVEL 1	14' - 4 1/8"	- X				
	C8X11.5		23' - 7 1/2"	23' - 7 1/2"	LEVEL 1	3' - 8"					
	C8X11.5		23' - 7 1/2"	23' - 7 1/2"	LEVEL 1	3' - 8"	7				
	C8X11.5		23' - 7 1/2"	23' - 7 1/2"	LEVEL 1	3' - 8"					
	C8X11.5		27' - 6 1/2"	27' - 6 1/2"	LEVEL 1	3' - 8"					
	C8X11.5		28' - 8"	28' - 8"	LEVEL 1	15' - 7 1/2"	(				
	C8X11.5		28' - 8"	31' - 0 1/2"	LEVEL 1	14' - 3 7/8" (					
	C8X11.5		31' - 0 1/2"	31' - 0 1/2"		15' - 7 1/2"	×				
	C8X11.5		31' - 0 1/2"	28' - 8"	LEVEL 1	14' - 3 7/8"					
						(					
	W8X10	Beam	9' - 0"	9' - 0"	LEVEL 1	13' - 2"	7				
	W8X10	Beam	9' - 0"	9' - 0"		11' - 10 3/8"	-				
	W8X10	Beam	9' - 0"	9' - 0"		13' - 1 7/8"					
	W8X10	Beam	9' - 0"	9' - 0"		11' - 10 1/2"	{				
						(	×				
	W10X33	Beam	15' - 1 3/4"	13' - 2 1/4"	LEVEL 1	11' - 3 3/8"					
	W10X33	Beam	15' - 4 1/4"	12' - 11 3/4"		14' - 5 3/8"	4				
	W10X33	Beam	30' - 4 1/4"	28' - 0"		13' - 9 1/2"					
	W10X33	Beam	30' - 4 1/4"	28' - 0"		14' - 4 1/2"	7				
			I	- -		· · · · · · · · · · · · · · · · · · ·					
	Z8" x 1.5" x 18ga.		13' - 11"	13' - 11"	LEVEL 1	13' - 2 5/8"	Supported by D-1 and D-2				
	Z8" x 1.5" x 18ga.		14' - 6"	14' - 6"		13' - 9 1/2"	(Supported by D-1 and D-2				
	Z8" x 1.5" x 18ga.		15' - 1"	15' - 1"		13' - 9 1/2"	Supported by D-1 and D-2				
	Z8" x 1.5" x 18ga.		28' - 11"	28' - 11"		15' - 9 5/8"					
	Z8" x 1.5" x 18ga.		29' - 6"	29' - 6"		15' - 9 5/8"	(				
	Z8" x 1.5" x 18ga.		30' - 1"	30' - 1"		15' - 9 5/8"					
	20 x 1.0 x 10ga.		00 1				 γ				

	Keynote Legend
Key Value	Keynote Text
3-07	6" THICK CONCRETE SLAB ON 2" SAND OVER 6 MIL VISQUEEN VAPOR BARRIER WITH 6X6/10-10 WWM IN
4.00	CENTER OF SLAB. (OMIT VISQUEEN IN SHOP AREA)
4-02 )	8 x 8 x 16 CONCRETE BLOCK (SOLID GROUT ALL CELLS WITH REINFORCING) WALL WITH (1) #5 VERTICAL AT 32 ON CENTER AND (1) #4 HORIZONTAL AT 32 ON CENTER (SINGLE SCORE PRECISION BLOCK)
6-866	2 X 6 DOUG FIR #2 OR BETTER ROOF RAFTERS AT 24" O/C



1

· · · · · ·

Pad	Footing Schedule		
Туре	Rebar Condition	Count	Detail
" x 1"-6" DEEP	(4) #5 BAR E/W	1	
" x 1"-6" DEEP	(4) #5 BAR E/W	1	
" x 1"-6" DEEP	(4) #5 BAR E/W	1	
" x 1"-6" DEEP	(4) #5 BAR E/W	1	
" x 1"-6" DEEP	(4) #5 BAR E/W	1	
" x 1"-6" DEEP	(4) #5 BAR E/W	1	
" SQ X 24" DEEP	(4) #5 BAR E/W	1	
" SQ X 24" DEEP	(4) #5 BAR E/W	1	
" SQ X 24" DEEP	(4) #5 BAR E/W	1	
' SQ X 24" DEEP	(4) #5 BAR E/W	1	

**1762 PRODUCTION CIR.** JURUPA VALLEY, CA 91801



# **S100**

15-608 9-23-15

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**MACK FLAVOR** 

**OFFICE & INDUSTRIAL BUILDING:** 

Revision

Revision 1

Date



11/30/2015

GENERAL NOTES AND REQUIREMENTS 1. WORK SHALL COMPLY WITH THESE STRUCTURAL SPECIFICATIONS, NOTES, AND DRAWINGS TOGETHER WITH ASSOCIATED SPECIFICATIONS, NOTES AND DRAWINGS - COLLECTIVELY REFERRED TO AS THE CONSTRUCTION DOCUMENTS.

2. WORK SHALL COMPLY WITH THE 1997 UNIFORM BUILDING CODE (UBC 97) AS ADOPTED AND AMENDED BY THE CALIFORNIA CODE OF REGULATION (CCR), TITLE 24, CALIFORNIA BUILDING CODE AND AS ADOPTED AND AMENDED BY THE LOCAL CITY OR COUNTY AND ANY AGENCIES HAVING JURISDICTION - COLLECTIVELY REFERRED TO AS THE BUILDING CODE.

3. WORK SHALL COMPLY WITH APPLICABLE FEDERAL LAWS, STATE STATUTES, LOCAL ORDINANCES, AND THE REGULATIONS OF AGENCIES HAVING JURISDICTION. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR COMPLYING WITH THE CONSTRUCTION SAFETY ORDERS AND THE GENERAL INDUSTRIAL SAFETY ORDERS OF THE STATE DIVISION OF INDUSTRIAL SAFETY, THE REGULATIONS OF THE FEDERALAND STATE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATIONS, AND SUCH OTHER AGENCIES GOVERNING THE CONTRACTOR'S ACTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND HOLD HARMLESS THE STRUCTURAL ENGINEER FOR ANY DAMAGES AND OR PENALTIES RESULTING FROM HIS FAILURE TO COMPLY WITH SAID LAWS, STATUTES, ORDINANCES, AND REGULATIONS.

4. THE DESIGN, ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE STRUCTURAL ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE PRIOR TO THE APPLICATION OF ALL SHEAR WALLS. ROOF. AND FLOOR DIAPHRAGMS AND FINISH MATERIALS. HE SHALL PROVIDE THE NECESSARY BRACING TO PROVIDE STABILITY PRIOR TO THE APPLICATION OF THE AFOREMENTIONED MATERIALS. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEM. 5. NO ALTERNATE METHODS OF CONSTRUCTION OR SUBSITUTIONS SHALL BE ALLOWED WITHOUT APPROVAL OF

THE OWNER, ARCHITECT, AND STRUCTURAL ENGINEER. 6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE CONSTRUCTION DOCUMENTS AND AT THE SITE AND SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES FOUND PRIOR TO COMMENCING WORK. DRAWINGS TAKE PRECEDENCE OVER SPECIFICATIONS, DETAILED DRAWING AND SPECIFICATIONS TAKE PRECEDENCE OVER GENERAL DRAWINGS AND SPECIFICATIONS, DIMENSIONS TAKE PRECEDENCE UNIFORM BUILDING CODE OR BY A DEPUTY-INSPECTOR LICENSED BY THE LOCAL BUILDING OFFICIAL. OVER SCALED MEASUREMENTS.

7. REVIEW MADE OF THE SHOP DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. THE SHOP DRAWINGS WILL BE VIEWED FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECTAS INDICATED BY THE CONSTRUCTION DOCUMENTS. QUANTITIES OR DIMENSIONS WILL NOT BE REVIEWED. PROCESSES, TECHNIQUES OF CONSTRUCTION, SAFETY PROCEDURES, OR COORDINATION OF THE WORK WITH THAT OF ANY OTHER TRADE WILL NOT BE REVIEWED. 8. APPROVAL BY THE INSPECTOR DOES NOT MEAN APPROVAL OF FAILURE TO COMPLY WITH THE PLANS AND

SPECIFICATIONS. ANY DESIGN WHICH FAILS TO BE CLEAR OR IS AMBIGUOUS MUST BE REFERRED TO THE ENGINEER OR ARCHITECT FOR INTERPRETATION OR CLARIFICATION.

9. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES, PIPES, AND OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL ASCERTAIN THE TRUE VERTICAL AND A. NO. 4 BARS AND SMALLER - INTERMEDIATE GRADE CONFORMING TO ASTM A615-40, UNLESS FOR STRUCTURAL HORIZONTAL LOCATION AND SIZE OF ANY UNDERGROUND UTILITIES OF THOSE TO BE USED, AND SHALL BE RESPONSIBLE FOR DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES, SHOWN OR NOT SHOWN HEREON. CONTRACTOR SHALL ALSO CONTACT UNDERGROUND SERVICE ALERT 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION AT (800) 422-4133 FOR IDENTIFICATION OF UNDERGROUND FACILITIES.

10. PRIOR TO STARTING CONSTRUCTION OF THIS PROJECT, THE CONTRACTOR SHALL UNCOVER ALL EXISTING UTILITY LINES AFFECTING THIS WORK AND VERIFY ALL JOIN LOCATIONS, BOTH VERTICAL AND HORIZONTAL. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPORT ANY DISCREPANCIES IN PLANS AND OR FIELD CONDITIONS IMMEDIATELY TO THE DESIGN ENGINEER FOR RESOLUTION PRIOR TO CONSTRUCTION, AND SHALL BE RESPONSIBLE FOR DISCREPANCIES NOT SO REPORTED AND RESOLVED.

11. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, UNLESS OTHERWISE SHOWN, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION, THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE THE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, OBSERVATION VISITS TO THE SITE BY FIELD REPRESENTATIVES OF THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES REQUIRED FOR SAME, WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR ANY SUPPORT SERVICES PERFORMED BY THE ARCHITECT AND OR THE ENGINEER DURING CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOS AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS, THESE SUPPORT SERVICES PERFORMED BY THE DESIGNER AND OR HIS ENGINEER, WHETHER OF MATERIAL, AND WHETHER PERFORMED PRIOR TO, DURING, OR AFTER COMPLETION OF CONSTRUCTION ARE PERFORMED SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DRAWINGS AND SPECIFICATIONS, BUT THEY DO NOT GUARANTEE CONTRACTOR PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.

SITE PREPARATION AND FOUNDATION 1. THE FOUNDATION DESIGN IS BASED ON THE SOILS REPORT PREPARED BY N/A, DATED: --/--/--, JOB NO. N/A. 2. THE ABOVE SOILS REPORT IS PART OF THESE PLANS AND TO BE FOLLOWED IN ITS ENTIRETY. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THE REQUIREMENTS THEREIN. 3. THE SITE PREPARATION, EXCAVATION AND COMPACTION SHALL BE DONE UNDER THE SUPERVISION OF THE SOIL ENGINEER.

4. ALL BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY, UNLESS NOTED OTHERWISE BY THE SOILS ENGINEER.

5. ALL EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE SOILS ENGINEER PRIOR TO POURING FOOTINGS WHEN REQUIRED BY HIM. 6. ALL WATER SHALL BE REMOVED FROM FOUNDATION EXCAVATIONS PRIOR TO THE PLACING OF

CONCRETE.

7. THE GENERAL CONTRACTOR SHALL INVESTIGATE SUB-SURFACE CONDITIONS, BEFORE AND DURING GRADING OF SITE, FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS AND EXISTING FOUNDATIONS. IF ANY SUCH STRUCTURES ARE FOUND AND SUB-SURFACE CONDITIONS VARY FROM PLANS OR SPECIFICATIONS, THE SOILS ENGINEER AND THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY PRIOR TO THE PLACING OF ANY FOUNDATIONS.

8. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO FULLY PROTECT ADJACENT PROPERTIES INCLUDING BUT NOT LIMITED TO THE REQUIREMENTS OF UBC SECTION 33012. 9. ALL SITE AND PAD PREPARATION, SUCH AS BUT NOT LIMITED TO, GRADING, COMPACTION OF THE FILL, PRE-

SATURATION, AND CONCRETE SLABE BASE PREPARATION, SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS ENGINEER'S RECOMMENDATIONS AS INDICATED IN THE SOILS REPORT AND THE UBC SECTION 1806. 10. ALL BOTTOMS OF FOOTING EXCAVATIONS SHALL BE LEVEL, CLEAN, AND FREE OF LOOSE MATERIAL OR

WATER WHEN CONCRETE IS PLACED. OVER EXCAVATION SHALL BE FILLED WITH CONCRETE AS FOR THE FOOTINGS. BACKFILL SHALL NOT BE PLACED UNTIL SUPPORTING FOUNDATION, WALLS AND SLAB HAVE ATTAINED SUFFICIENT STRENGTH TO SUPPORT LATERAL SOIL PRESSURE. 11. NO PIPES AND CONDUITS SHALL EXTEND UNDER ISOLATED COLUMN FOOTING OR UNDER CONTINUOUS WALL FOOTING UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE STRUCTURAL

ENGINEER AND THE BUILDING OFFICIAL. 12. FINISH GRADE AROUND THE PERIMETER OF THE STRUCTURE SHALL BE SUCH THAT RAIN AND IRRIGATION WATER DRAIN AWAY FROM THE FOUNDATION AS REQUIRED BY UBC SECTION 1804.7 AND

1806.55 AND THE CIVIL DRAWINGS. 13. ALL HARDWARE IS TO BE SIMPSON STRONG TIE OR EQUIVALENT IN STRUCTURAL VALUE AND DESIGN. 14. ALL EXTERIOR WALLS TO BE SECURED WITH 5/8" DIA. ANCHOR BOLTS WITH 7" MINIMUM EMBEDMENT FOR

SINGLE POUR OR 12" MINIMUM EMBEDMENT FOR TWO POUR AT 72" O.C. MAXIMUM, UNLESS NOTED OTHERWISE. LOCATE BOLTS 12" FROM CORNERS AND ENDS OF SILL PLATE. PROVIDE MINIMUM (2) ANCHOR BOLTS PER SILL PLATE. PLATE WASHERS A MINIMUM OF 2"x2"x3/16" THICK SHALL BE USED ON EACH BOLT. 15. ALL INTERIOR WALLS TO BE SECURED WITH SHOT-PINS PER MANUFACTURERS SPECIFICATIONS UNLESS NOTED OTHERWISE. RECOMMEND ITW/RAMSET/RED HEAD #3348 AT 48" O.C. FOR NON-SHEAR WALLS. 5/8" DIA. ANCHOR BOLTS WITH 7" MINIMUM EMBEDMENT FOR SINGLE POUR OR 12" MINIMUM EMBEDMENT FOR

TWO POUR AT 72" O.C. MAXIMUM. CALCS. GOVERN IN ALL CASES. 16. PROVIDE SIMPSON CBS AT ALL EXTERIOR ISOLATED POSTS AND SIMPSON PBS AT ALL INTERIOR ISOLATED POSTS, U.N.O.

17. WE RECOMMEND ALL SLABS TO BE MINIMUM 5" (NOM) THICK WITH #3 BARS @ 18" O.C. EACH WAY AT MID-HEIGHT WITH 1" SAND LAYER ABOVE AND BELOW A 6 MIL VAPOR BARRIER. REFER TO SOILS REPORT FOR ALLOWABLE OMISSIONS OR ADDITIONAL REQUIREMENTS. 18. USE CONCRETE BLOCKS TO ENSURE W.W.MESH PLACEMENT AT MID-HEIGHT OF SLAB. DO NOT HOOK

MESH TO LIFT TO MID-HEIGHT SLAB. 19. USE SIMPSON EPOXY SET ICBO #5279 W/ 5/8" DIA. THREADED ROD FOR MISSED 5/8" DIA. ANCHOR BOLTS. PROVIDE A MINIMUM EMBEDMENT OF 5" W/ SPECIAL INSPECTION.

20. HOLDOWNS AND OTHER HARDWARE ARE TO BE TIED IN PLACE PRIOR TO INSPECTION AND EXACT LOCATIONS ARE TO BE VERIFIED BY CONCRETE AND FRAMING CONTRACTOR.

CONCRETE 1. ALL CONCRETE SHALL CONFORM TO THE LATEST EDITION OF THE GOVERNING CODE. 2. CONCRETE SHALL BE DESIGNED AND TESTED AS OUTLINED IN THE FOLLOWING SPECIFICATIONS OR AS NOTED IN PLANS.

4. FINE AND COURSE AGGREGATE SHALL CONFORM TO ASTM C-33 FOR STANDARD WEIGHT CONCRETE AND ASTM C-333 FOR LIGHT WEIGHT CONCRETE. 5. ALL AGGREGATE SHALL BE COMPARABLE TO SAN GABRIEL VALLEY AGGREGATE. THE SHRINKAGE SHALL CONFORM TO ASTM C-157 WITH THE AVERAGE DRYING SHRINKAGE AT 28 DAYS, NOT EXCEEDING 0.4%. 6. DRYPACK SHALL BE COMPOSED OF ONE PART PORTLAND CEMENT TO NOT MORE THAN THREE PARTS SAND.

7. ANCHOR BOLTS, DOWELS, INSERTS, ETC. SHALL BE SECURED IN PLACE AND INSPECTED PRIOR TO POURING CONCRETE BY THE LOCAL BUILDING DEPARTMENT INSPECTOR. 8. CONCRETE SHALL BE CURED BY KEEPING CONTINUOUSLY WET FOR 10 DAYS OR BY AN APPROVED CURING COMPOUND.

9. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR MISCELLANEOUS ITEMS TO BE CAST INTO CONCRETE AND FLOOR DEPRESSION, PIT, ETC. 10. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL EXPANSION JOINTS, SCORING, ETC. FOR CONCRETE SLABS AND WALKS. 11. MINIMUM I'C IS TO BE 2500 PSI ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS UNLESS NOTED

OTHERWISE.

3. ALL CEMENT TYPE II SHALL CONFORM TO ASTM C-150.

12. ALL CONCRETE WITH t'c > 2500 PSI SHALL HAVE SPECIAL INSPECTION PER SECTION 1701 OF THE 13. CONCRETE COVER AT REINFORCING STEEL TO BE 3" FOR UNFORMED AND 2" FOR FORMED CONCRETE FOOTINGS.

BROUGHT TO THE ATTENTION OF THE ARCHITECT OR THE ENGINEER AND THE LOCAL BUILDING AGENCY, PRIOR TO THE PLACING OF ANY CONCRETE.

REINFORCING STEEL 1. ALL REINFORCING STEEL SHALL BE AS FOLLOWS: SLABS & MASONRY WALL CONFORM TO ASTM A615-60. B. NO.5 BARS AND LARGER - HARD GRADE CONFORMING TO ASTM A615-60.

C. ALL MASONRY WALL REINFORCING, INCLUDING MASONRY WALL FOOTING, SHALL BE INTERMEDIATE GRADE CONFORMING TO ASTM A615-60. D. ALL BARS SHALL BE DEFORMED AS PER ASTM A305.

2. ALL BARS SHALL BE CLEAN OF LOOSE, FLAKY RUST, GREASE OR OTHER MATERIALS LIKELY TO IMPAIR BOND. 3. ALL BENDS SHALL BE MADE COLD.

4. SPLICING OF BARS SHALL HAVE LAPPING OF 48 DIAMETERS OR 2'-0" MINIMUM IN ALL CONTINUOUS REINFORCEMENT OF FOOTING AND CONCRETE WALLS, EXCEPT AS NOTED ON PLANS. MASONRY REINFORCING SHALL HAVE LAPPING OF 72 DIAMETERS OR 2'-0" MINIMUM. 5. ALL REINFORCING BARS SHALL BE ACCURATELY AND SECURELY PLACED BEFORE POURING CONCRETE OR APPLYING MORTAR OR GROUT.

### 14. BEFORE CONCRETE IS PLACED THE GENERAL CONTRACTOR SHALL COORDINATE AND CHECK WITH ALL TRADES TO ENSURE THE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES INSERTS, CURBS, DEPRESSIONS, ETC. RELATING TO THE WORK, AS SHOWN IN THE DRAWINGS. ANY CHANGE OR DISCREPANCY SHALL BE

E. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, LAP 1 1/2 SPACES, 9 MINIMUM.

 Custom Homes • Remodels and Additions • Project Management • Full Plan Service • Commercial • As-Built •

9-23-15 **1762 PRODUCTION CIR.** JURUPA VALLEY, CA 91801



# SN-1

15-608

MACK FLAVOR

**OFFICE & INDUSTRIAL BUILDING:** 

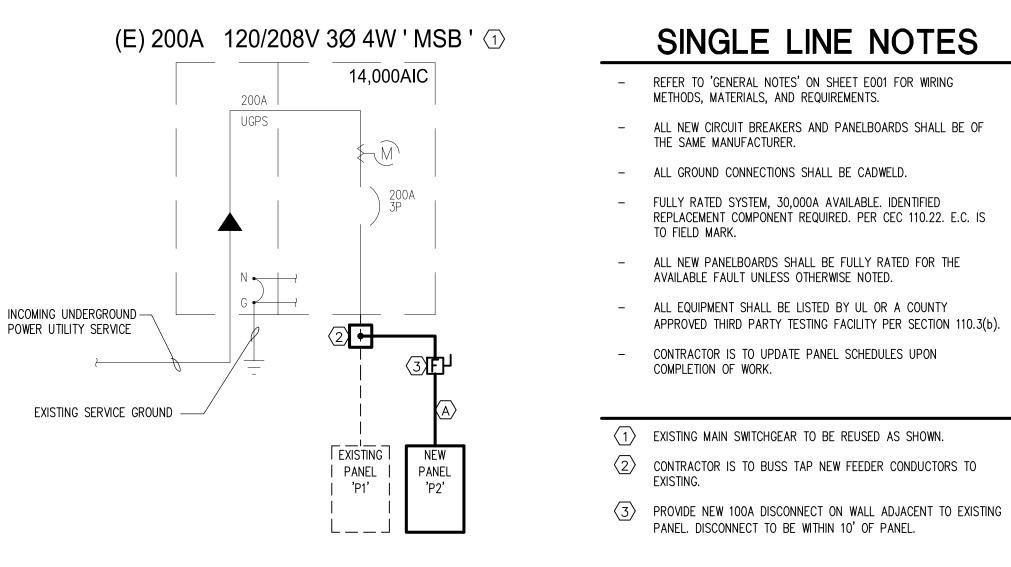
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Phone: (909)-262-9766

Email: WADESHUEY@AOL.COM

11/23/2015

Revision



## 1) SINGLE LINE DIAGRAM - ' MSB' NO SCALE

ELEC	TRICAL	_ L(	DAD CAI	LCU	LATIONS				
SERVICE 'MSB'									
RIVERSIDE, CA									
ELECTRICLA LOAD:									
EXISTING LOAD - ELECTRICAL BILL 07/2015	1	@	17000	VA	17000	VA			
+25% - PER NEC	1	@	4250	VA	4250	VA			
NEW PANEL 'P2'	1	@	27957	VA	27957	VA			
SPACE	0	@	0	VA	0	VA			
SPACE	0	@	0	VA	0	VA			
@ 100% DEMAND	TOTAL				49207	VA	=	49207	VA
TOTAL ELECTRICAL LOAD							=	49207	VA
NET LOAD AT 120/208V 3 PHASE 4 WIRE							=	137	AMP
137 AMPS + 25% LCL							=	171	AMP
ELECTRICAL METER MAIN TO BE RATED 120	)/208V 3 Pł	HASE	E 4 WIRE				=	200	

MOUNTING: FED FROM: NEMA: AIC RATING: DESCRIPTION LIGHTING SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	MAIN SWIT 1	CHGEAR																	
LIGHTING SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	А			П		¥		]	PANEL P2 ( NEW )				R		 ]		BUS: MAIN:	120/208V 3PH 4W 100A 100A/3P REFER. TO SINGLE LINE	
LIGHTING SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE		В	с	LTG	REC	POLE	AMP				AMP	POLI	ОТΗ	REC LTG	А	В	С	DESCRIPTION	NOTE
SPACESPACESPACESPACESPACESPACESPACESPACESPACESPACE	192			•		1	20	1	Α	2	60	3			5500			ASYNCHRONOUS MOTOR	Т
SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE			]					3	- B -	4		-	-			5500			Т
SPACE SPACE SPACE SPACE SPACE SPACE								5	C	6		-	-				5500		
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SPACE SPACE SPACE								11	C	12		-	-				1000		
SPACE SPACE								13	Α	14	20	3	-		1333			ASYNCHRONOUS MOTOR	Τ
SPACE						Τ		15	- B -	16		-	-			1333			Т
						Τ		17	C	18		-	-				1333		Т
								19	Α	20								SPACE	Т
SPACE			]					21	- B -	22							]	SPACE	Т
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SPACE			]			Τ		27	- B -	28								SPACE	Т
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SPACE								31	Α	32								SPACE	Т
SPACE								33	- B -	34								SPACE	Т
SPACE								35	C	36								SPACE	Т
SPACE						Τ		37	Α	38								SPACE	Т
SPACE			]			Τ		39	- B -	40							]	SPACE	Т
SPACE								41	C	42								SPACE	Т
NOTES:	192	0	0			SI	В	\ - ; -	ASE SUBTOTAL 8025 7833 7833 23692	5 VA 3 VA 3 VA					7833 X 0.25LCL= TOTAL=				



APPROVED THIRD PARTY TESTING FACILITY PER SECTION 110.3(b).

ΗN	10'	OF	PANEL.		

ONDUCT	OR SCH	IEDULE	
PHASE	NEUTRAL	GROUND	CONDUIT
3 # 1	1 # 1	1 # 8	1-1/2"
	PHASE	PHASE NEUTRAL	

### GENERAL 1. ALL MATERIALS AND WORKMANSHIP SHA NATIONAL ELECTRICAL CODE EDITION AN 2. ALL PANELS, SWITCHES, ETC. SHALL HA REQUIREMENTS TO ACCOMMODATE COND WHERE WIRE SIZES ARE INDICATED ON P THE COMPLETE CIRCUIT, UNLESS OTHERW 4. CONTRACTOR SHALL VERIFY THE EXACT ELECTRICAL CONNECTION PRIOR TO ANY 5. CONTRACTOR SHALL EXTEND WIRING FR REQUIRED TO ALL BUILDING EQUIPMENT 6. LOCATION OF LOCAL WALL SWITCHES A SIDE OPPOSITE TO DOOR HINGE. VERIFY DRAWINGS ARE DIAGRAMMATIC AND INDI

DRAWINGS IN LAYING OUT WORK AND WHICH WORK WILL BE INSTALLED. MAINT TIMES.

- 8. CONTRACTOR SHALL COORDINATE THE ALARM PULL STATIONS. RECEPTACLES I
- 9. FURNISH APPROVED EXPANSION FITTINGS 10. FURNISH PULL STRING IN EACH RACEWA
- 11. NOT MORE THAN THREE LIGHTING OR ( SEPARATE CONDUIT FOR EACH HOMERUN
- 12. PROVIDE PULL BOXES WHEREVER NECES BOXES WITH OTHER TRADES TO AVOID COMPLY WITH N.E.C. REQUIREMENTS.
- 13. OUTLET BOXES FOR FIXTURES RECESSED REMOVAL OF FIXTURES.
- 14. SEE MECHANICAL AND PLUMBING DRAWIN CONTROL PANELS, CONTROL TRANSFORM VALVES, STATS, RELAYS, DUCT SMOKE ELECTRÍCAL CONTRACTOR SHALL VERIFY CONTRACTORS PRIOR TO ANY WORK AN
- 15. ALL EXTERIOR ELECTRICAL DEVICES AND (UP TO 16') SHALL BE WEATHERPROOF
- 16. NO CONDUIT RUNS SHALL BE ALLOWED CEILING SPACES UNLESS SPECIFICALLY
- 17. LIGHTING, POWER, TELEPHONE AND COM 18. WHERE MORE THAN ONE LIGHT SWITCH
- GANG BOX UNDER A SINGLE COVER PLA INDICATE THE LIGHT FIXTURES CONTROLI
- 19. DISCONNECT SWITCHES SHALL BE MOUN PROVIDED NO MODIFICATION TO EQUIPM 20. ALL ELECTRICAL POWER LIGHTING, TELEF
- METALLIC CONDUIT SYSTEM. 21. ALL ELECTRIC MATERIAL SHALL BE LISTE
- ON ALL ELECTRICAL EQUIPMENT. 22. CONTACT UTILITY COMPANIES FOR SCOP
- 23. ALL DISTRIBUTION AND CONTROL EQUIPM FULLY RATED PER UL AS FOLLOWS: a. 125A OR LESS : 60℃ OR MORE; b. MORE THAN 125A : 75℃ OR MORE.
- 24. CONDUCTORS SHALL HAVE UNDERWRITE BELOW OR ELSEWHERE IN THE SPECIFICA 1. BRANCH CIRCUITS – LIGHTING AND P
- a. #10 AWG AND SMALLER, SOLID WIRE b. #8 AWG TO #2 AWG, STRANDED TYPE
   c. #1 AWG AND LARGER, STRANDED TYPE 2. FEEDERS : TYPE THW OR THHN/THW
- 25. PROVIDE GREEN INSULATED GROUNDING WIREMOLD. SIZE OF GROUNDING SHALL
- 26. WIRING METHOD SHALL BE EMT ABOVE OTHERWISE) AND SCHEDULE-40 PVC F
- 27. PROVIDE 110V OUTLET, CFL LIGHT & SV
- 28. ALL EQUIPMENT SHALL BE WIRED TO PA UNLESS SHOWN OTHERWISE).
- 29. ELECTRICAL CONTRACTOR SHALL PROVID 30. IN ALL KITCHEN AREAS, ALL 15A AND 2
- 31. VERIFY LOCATIONS AND ELECTRICAL RE COORDINATE WORK WITH OTHER TRADES
- 32. PROVIDE WHITE OUTLET W/ S.S. PLATE IN KITCHEN AREA
- PLATES FOR ALL DISCONNECT SWITCHES AND PANEL BOARDS.
- LANDLORD.
- REQUIRED.

## CALIFORNIA COMPLIANCE CODES

- 1. 2013 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
- 4. 2013 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. (UMC WITH AMENDMENTS)
- 5. 2013 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (UPC WITH AMENDMENTS)
- 7. 2013 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
- 8. 2013 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
- 9. 2010 CALIFORNIA ENERGY CODE (PART 6, TITLE 24 C.C.R.)

SYMBOL	DESC.		Τ		[		[,	ING S LAMP	CRI • K
<b>⊢</b> •• F1	1X4 LINEAR STRIP LED FIXTURE	•			•			50W LED 4248 LUMEN	89 4000
<b>₩</b> F2	LED EXIT SIGN	•				•		2W LED	89 4000

ELECTRICAL NOTES		ELECTRICAL SYMBOLS	
IALL CONFORM TO THE LATEST CALIFORNIA CODE OF REGULATIONS (CCR), ND ALL APPLICABLE LOCAL CODES AND REGULATIONS.	SYMBOL	DESCRIPTION	
AVE SUFFICIENT GUTTER SPACE AND LUGS IN COMPLIANCE TO UL DUCTORS SHOWN.	-	DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS) MOUNTED TO BOTTOM LINE U.O.N.	+15" A.F.F.
PLANS, FOR INDIVIDUAL CIRCUITS, THE WIRE SIZE INDICATED SHALL APPLY TO RWISE NOTED.	<b>+</b>	DOUBLE DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS) M A.F.F. TO BOTTOM LINE U.O.N.	OUNTED +15"
T LOCATION OF MECHANICAL, PLUMBING AND OTHER EQUIPMENT REQUIRING		CORD DROP MOUNTED GFCI DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 A VOLTS) U.O.N.	MPS, 125
ROM ALL JUNCTION BOXES, SWITCHES, ETC. AND MAKE FINAL CONNECTION AS	0	ABOVE CEILING, CONCEALED, JUNCTION BOX, WITH COVER, PER NATIONAL ELECT (NEC) TABLE 370-b(a), 4" SQUARE DEEP, WITH PLASTER RING.	RICAL CODE
ARE SUBJECT TO MODIFICATIONS. AT OR NEAR DOORS, INSTALL SWITCHES ON Y FINAL HINGE LOCATION IN FIELD PRIOR TO ANY WORK.	Ŵ	RECESSED WALL MOUNTED JUNCTION BOX, WITH COVER, PER NATIONAL ELECTRI (NEC) TABLE 370-b(a), 4" SQUARE DEEP, WITH PLASTER RING.	CAL CODE
DICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. FOLLOW CHECK DRAWINGS OR OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN	Ð	DUPLEX RECEPTACLE, FLUSH IN FLOOR, WATERTIGHT JUNCTION BOX (HINGED BF	ASS COVER:
TAIN HEADROOM AND MINIMUM CODE REQUIRED WORKING CLEARANCES AT ALL		20 AMP, 120 VOLT, 2-POLE, 3-WIRE) U.O.N. DOUBLE DUPLEX RECEPTACLE, FLUSH IN FLOOR, WATERTIGHT JUNCTION BOX (2	20 AMP, 120
LOCATION OF ALL WALL OUTLET BOXES FOR SWITCHES, BELL/STROBES, FIRE ETC. WITH CABINETS, FURNITURE, EQUIPMENT ETC., TO AVOID CONFLICT.		VOLT, 2–POLE, 3–WIRE) U.O.N. JUNCTION BOX, FLUSH IN FLOOR, WATERTIGHT (HINGED BRASS COVER: 20 AMP)	, 120 VOLT,
GS WHERE RACEWAY CROSSES BUILDING EXPANSION JOINTS.		2–POLE, 3–WIRE) U.O.N. PANELBOARD, RECESSED OR SURFACE MOUNTED.	
AY RUN OVER 10' IN LENGTH, IN WHICH PERMANENT WIRING IS NOT INSTALLED.		PANELBUARD, RECESSED OR SURFACE MOUNTED.	
CONVENIENCE OUTLET CIRCUITS ARE PERMITTED IN ONE CONDUIT, PROVIDE UN INDICATED ON THE DRAWING, UNLESS INDICATED OTHERWISE.		MAIN ELECTRICAL SWITCHBOARD, (SEE SINGLE LINE DIAGRAM AND LOAD CALCS)	
SSARY TO FACILITATE PULLING OF CONDUCTORS. COORDINATE LOCATIONS OF CONFLICT. PULL BOXES SHALL BE ACCESSIBLE. THE SIZE OF PULL BOX SHALL		DISCONNECT SWITCH H.P. RATED 600 VOLTS RATED. "F" INDICATES FUSE TYPE. APPROVED MANUFACTURERS SHOP DRAWINGS.	FUSES PER
ED IN HUNG CEILING SHALL BE ACCESSIBLE THROUGH OPENING CREATED BY		CONDUIT STUBBED AND CAPPED	
VINGS AND SPECIFICATION FOR ADDITIONAL CONNECTION REQUIREMENTS TO		RACEWAY CONCEALED IN WALLS OR ABOVE CEILING	
WERS, POWER FOR CONTROL SYSTEM EP AND PE SWITCHES, TIME CLOCKS, DETECTOR LOCATIONS, ETC. INDICATED ON CONTROL WIRING DIAGRAMS. Y FINAL CONTROL WIRING REQUIREMENTS WITH MECHANICAL AND PLUMBING ND PROVIDE ALL NECESSARY DEVICES AND CONNECTIONS AS REQUIRED.		CONDUIT CONCEALED IN OR UNDER FLOOR: OR UNDERGROUND (CONFIRM DEPT- DRAIN INTO PULL BOXES)	, GRADE TO
ID EQUIPMENT INCLUDING THOSE THAT ARE EXPOSED TO OUTSIDE ENVIRONMENT OF TYPE, NEMA 3R.	—— E ——	EXISTING CONDUIT AND CONDUCTORS TO BE REUSED	
IN CONCRETE SLABS. ALL CONDUITS WILL BE PLACED ABOVE ACCESSIBLE INDICATED TO BE UNDERGROUND.	(E)	EXISTING DEVICE TO BE REUSED	<b>、</b>
MMUNICATIONS OUTLETS SHALL NOT BE PLACED BACK-TO-BACK.	A−1,3—	HOME RUN TO DESIGNATED PANEL. CONDUITS TO BE SIZED FOR 20% FILL	
OCCURS AT SAME LOCATION, SWITCHES SHALL BE MOUNTED IN A MULTIPLE ATE. PLATES WITH MORE THAN (3) LIGHT SWITCHES SHALL BE LABELED TO LLED.	— <del>Ⅲ \&gt;</del>	(UNLESS INDICATED OTHERWISE). NO MORE THAN 24 CURRENT CARRYING CONDUCTORS PER CONDUIT, WITH GROUNDING CONDUCTOR SIZED FOR LARGEST CIRCUIT BREAKER.	
NTED ON INDIVIDUAL SUPPORTS, OR OTHERWISE DIRECTLY ON EQUIPMENT, MENT IS NECESSARY.		3/4" CONDUIT WITH 2 #12 & 1 #12 GND WIRES	CONCEALED
EPHONE OR SIGNAL WIRING IN FIRE RATED WALL IS TO BE INSTALLED IN A		3/4" CONDUIT WITH 3 #12 & 1 #12 GND WIRES	CEILING
	 	3/4" CONDUIT WITH 4 #12 & 1 #12 GND WIRES 3/4" CONDUIT WITH 5 #12 & 1 #12 GND WIRES	
TED BY "UL" FOR THE TYPE OF APPLICATION AND "UL" LABEL SHALL APPEAR		ELECTRICAL TRANSFORMER	/
PPE OF WORK PRIOR TO SUBMITTING BID; INCLUDE UTILITY CHARGES IF ANY. PMENT (SUCH AS CB's, SWITCHES, CONTACTORS, ETC.), TERMINATIONS SHALL BE		CONCRETE ELECTRICAL PULL BOX WITH LID APPROPRIATE FOR INSTALLATION LO	
MENT (SUCH AS OD'S, SWITCHES, CONTACTORS, ETC.), TERMINATIONS STALE DE	PB	SHALL BE LABELED "ELECTRICAL" OR "COMM" ACCORDING TO USE. MIN. SIZE	
ER'S LABORATORIES, INC.(UL) LISTED, 600 VOLT INSULATION OF TYPE SPECIFIED	$\overline{\mathbf{O}}$	2'X4' RECESSED LUMINAIRE. FN INDICATES LUMINAIRE TYPE – REFER TO LUMIN SCHEDULE, TYPICAL. SUBSCRIPT 2ab REFERS TO CIRCUIT AND SWITCH LEG 'a' /	
CATIONS. CONDUCTORS SHALL BE COPPER.	<b>∞</b>	SURFACE MOUNTED EXIT SIGN	
E TYPE THW OR THHN/THWN, THHW(THHN FOR DRY LOCATION ONLY).	S	SINGLE POLE SWITCH. PROVIDE AS SHOWN.	
PE THW OR THHN/THHW. YPE XHHW.	<b>▼</b>	COMBINATION TELEPHONE & DATA OUTLET BOX, MOUNTED +15" A.F.F. STUB 3/	/4" C.O. 6"
WN, OR XHHW.	v	ABOVE CEILING SPACE. PROVIDE (2) CAT6 CABLES AND (1) COAX PER OUTLET	
G CONDUCTOR IN EACH RACEWAY INCLUDING CONDUITS, PLUG STRIPS, BE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE ARTICLE 250.	ΗTV	TELEVISION OUTLET BOX. STUB $3/4$ " C.O. 6" ABOVE CEILING SPACE, PROVIDE WWIRE.	WITH PULL
GROUND AND MOUNTED IN CONCEALED SPACES (UNLESS APPROVED FOR UNDERGROUND INSTALLATION UNLESS NOTED OTHERWISE. WITCH FOR LIGHT @ FAU IN ATTIC.	Ws	WALL MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGY. 'D' DENOTES 0–10V CEILING MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGY.	DIMMER
PANEL AND CIRCUIT NUMBER SHOWN. USE $3/4$ C. AND #12 MIN. (TYPICAL	←CS→	CEILING MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGY.	
IDE ANY ADDITIONAL CONVENIENCE OUTLETS PER TENANT/OWNER	SD	LOW VOLTAGE SLIDE DIMMER SWITCH. PROVIDE AS SHOWN.	
20A RECEPTACLES SHALL BE GFCI PER 2008 NEC SECTION 210.8(B)(3). EQUIREMENTS OF ALL ROOF TOP EQUIPMENT BEFORE ROUGH-IN AND			
S.	æ	INFRA-RED OUTLET DETECTOR. REFER. TO DETAIL.	

33. ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT DIRECTORY ON THE INSIDE OF EACH PANEL DOOR. INSTALL NAME 34. ALL WIRING MUST BE IN CONDUIT NO CONDUIT IS TO RUN IN DUCTWORK. ALL ELECTRICAL EQUIPMENT EXPOSED TO WEATHER SHALL BE WEATHERPROOF. ELECTRICAL SYSTEM SHALL MAINTAIN CONTINUOUS GROUND.

35. ALL CORE BORING, TRENCHING AND PATCHING OF THE CONCRETE FLOOR SLAB SHALL BE BY GENERAL CONTRACTOR. 36. ALL CUTTING AND PATCHING OF THE ROOF SHALL BE DONE BY THE GENERAL CONTRACTOR IN COORDINATION WITH

37. VERIFY EXACT LOCATION OF ROOF MOUNTED WATER RECIRCULATING SYSTEM. UNIT IS SUPPLIED W/PREWIRED & MOUNTED FUSED DISCONNECT & CONTROL PANEL. PROVIDE POWER FROM FRANCHISEES ELECTRICAL PANELS AS

38. PROVIDE NON-SWITCHED 'HOT' POWER WIRE TO BATTERY PACK CHARGING/SENSOR IN ALL EMERGENCY FIXTURES.

- 2. 2013 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (UBC WITH AMENDMENTS)
- 3. 2013 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (NEC WITH AMENDMENTS)
- 6. 2013 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (UFC WITH AMENDMENTS)

## FIXTURE SCHEDULE

MANUFACTURER/PART NUMBER BEGHELLI LIGHTING BS101LED-4-HT-50W-WT41-120-CH24-SS-OCC LITHONIA LIGHTING LE-S-1-R-120-EL N SD-CSA

NOTES
E WITH 90MIN. BATTERY BACKUP, 1400 LUMENS – L. PROVIDE WITH INTEGRAL OCCUPANCY SENSOR.

SINGLE LINE



Revision Description

Number

Date







15-608

6-17-2015

**1762 PRODUCTION CIR.** 

**RIVERSIDE CA 91801** 

E001

DIAGRAM



### STATE OF CALIFORNIA INDOOR LIGHTING CEC-NRCC-LTI-01-E (Revised 05/15) CERTIFICATE OF COMPLIANCE Indoor Lighting (Page 1 of 6) Date Prepared: 9/22/2015 Project Name: Mack Flavor A. General Information Climate Zone: Conditioned Floor Area : 0

10	Unconditione	d Floor Area : 344				
Building Type:		Nonresidential		High-Rise Residential		Hotel/Motel
□ Schools		Relocatable Public Schools		Conditioned Spaces	ť	Unconditioned Spaces
Phase of Construction:		New Construction	ť	Addition		Alteration
Method of Compliance:		Complete Building		Area Category		Tailored
Project Address: Produc	tion Circle					
		select yes for each documer		-	tial Manual pub	lished hy the California Energy Commission

For detailed instr	uctions on the us	e of this and all En	ergy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.
YES	NO	FORM	TITLE
~		NRCC-LIT-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
~		NRCC-LIT-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
~		NRCC-LIT-03-E	Indoor Lighting Power Allowance
	~	NRCC-LIT-04-E	Tailored Method Worksheets
	~	NRCC-LIT-05-E	Line Voltage Track Lighting Worksheets

	nresidential C	ompliand	ce						May 20	015
TATE OF CALIFORNIA <b>NDOOR LIGHTING</b> EC-NRCC-LTI-01-E (Revised 05/15)								CALIFORNIA ENERGY	COMMIS	SION
CERTIFICATE OF COMPLIANCE									NR	CC-LTI-01-
Indoor Lighting									(	Page 4 of 6
Project Name: Mack Flavor							Date Prepare	<sup>d:</sup> 9/22/2015		
G. Installed Portable Luminaires in O	ffices – Ex	ceptio	n to Sectio	n 140.6	(a)					
<ul> <li>This section shall be filled out ONLY for pottinis compliance form.</li> <li>This section is used to determine if greater</li> </ul>			·		-		d portable lu	minaires shall be documente	ed on ne	ext page of
Fill out a separate line for each different of	office. Small	offices t	that are typic			•	ortable lightin	g) may be grouped together	. This al	llowance
Fill out a separate line for each different of shall not be traded between offices having						•	ortable lightin	g) may be grouped together	. This al	llowance
	ng different	lighting		cal (having	the same	general and po	ortable lightin	g) may be grouped together Office Location	•	
	ng different	lighting	systems.	cal (having	the same	general and po	ortable lightin		•	llowance d Inspector 10
shall not be traded between offices havin Office Portable Luminaire Schedule	ng different Office	lighting Installed	systems. I Portable Lu	cal (having minaire W	the same ; /atts Per So	general and po		Office Location	•	l Inspector
shall not be traded between offices havin Office Portable Luminaire Schedule 1 Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted	Ng different Office 2 Watts per	lighting Installed 3	systems. Portable Lui 4 Installed portable luminaire watts in this office	minaire W 5 of this	the same for the s	general and po quare Foot 7 If $F \le 0.3$ , enter zero; if $F > 0.3$ ,	8	Office Location 9 Identify Office area in which these portable	Field	l Inspector 10
shall not be traded between offices havin Office Portable Luminaire Schedule 1 Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted	Ng different Office 2 Watts per	lighting Installed 3	systems. Portable Lui 4 Installed portable luminaire watts in this office	minaire W 5 of this	the same for the s	general and po quare Foot 7 If $F \le 0.3$ , enter zero; if $F > 0.3$ ,	8	Office Location 9 Identify Office area in which these portable	Pass	d Inspector 10 Fai:
shall not be traded between offices havin Office Portable Luminaire Schedule 1 Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted	Ng different Office 2 Watts per	lighting Installed 3	systems. Portable Lui 4 Installed portable luminaire watts in this office	minaire W 5 of this	the same for the s	general and po quare Foot 7 If $F \le 0.3$ , enter zero; if $F > 0.3$ ,	8	Office Location 9 Identify Office area in which these portable	Pass	d Inspector 10 ⊡.
shall not be traded between offices havin Office Portable Luminaire Schedule 1 Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted	Ng different Office 2 Watts per	lighting Installed 3	systems. Portable Lui 4 Installed portable luminaire watts in this office	minaire W 5 of this	the same for the s	general and po quare Foot 7 If $F \le 0.3$ , enter zero; if $F > 0.3$ ,	8	Office Location 9 Identify Office area in which these portable	Pass	d Inspector 10
shall not be traded between offices havin Office Portable Luminaire Schedule 1 Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted	Ng different Office 2 Watts per	lighting Installed 3	systems. Portable Lui 4 Installed portable luminaire watts in this office	minaire W 5 of this	the same for the s	general and po quare Foot 7 If $F \le 0.3$ , enter zero; if $F > 0.3$ ,	8	Office Location 9 Identify Office area in which these portable	Pass	d Inspecto 10

01-E; Page 1

May 2015

\_\_\_\_\_

Total installed portable luminaire watts that are greater than 0.3 watts per square foot per office:

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance

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STATE OF CALIFORNIA INDOOR LIGHTING – LIGHTING CONTROLS CEC-NRCC-LTI-02-E (Revised 05/15) CERTIFICATE OF COMPLIANCE NRCC-LTI-02-E Indoor Lighting - Lighting Controls (Page 1 of 3) Date Prepared: 9/22/2015 Project Name: Mack Flavor The NRCC-LTI-02-E shall be used to document all mandatory and prescriptive lighting controls that are applicable to the project. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.) YES NO Control Requirements Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9. Lighting shall be controlled by a lighting control a system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b). One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b). A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b). All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1. All luminaires shall be functionally controlled with manually switched ON and OFF lighting controls in accordance with Section 130.1(a). General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4. The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b). All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c). Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans. Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e). Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4.(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls. CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance May 2015

STATE OF C.	R LIGHT								INDOC		
		MPLIANCE				CALIFO		NRCC-LTI-01-E			OMPLIANCE
Indoor Lig								(Page 2 of 6)	Indoor		
-	<sup>ne:</sup> Mack	Flavor				Date Prepared: 9/22/2015					ck Flavor
C. Sum	mary of	Allowed Lighting Power							YES	NO	Form/Title
	•	nconditioned space Lighting must not be combine	d for	compliance						~	NRCA-LTI-02-A - Must be submitted for occu
		Indoor Lighting Power for Conditioned Spaces			Indoor	Lighting Power for Unconc	itioned S	paces			NRCA-LTI-03-A - Must be submitted for auto
				Watts				Watts		~	NRCA-LTI-04-A - Must be submitted for dema
1.		Installed Lighting NRCC-LTI-01-E, page 4	+	0		<b>Installed</b> Lig NRCC-LTI-01-E, p		200		~	With the submittee for dema
		PORTABLE ONLY FOR OFFICES							Asenar	ate Liahtir	ng Schedule Must Be Filled Out for Conditioned an
2.		NRCC-LTI-01-E, page 3	+								
3.		Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	0		Minus Lighting Control Cr NRCC-LTI-02-E, p	-	0			
4.		Adjusted Installed Lighting Power	=	0	A	djusted Installed Lighting P	ower _	200	F. Indo	or Lightir	ng Schedule and Field Inspection Energy Che
		(row 1 plus row 2 minus row 3)	-	U		(row 1 minus ro	ow 3)	200			door lighting power listed on this page and on the
5.		Complies ONLY	if <b>Ins</b> t	alled ≤ Allowed		Complie	es ONLY if	<sup>-</sup> Installed ≤ Allowed		•	ete Building Method is used for compliance, list ea
6.		Allowed Lighting Power Conditioned NRCC-LTI-03-E, page 1		0	Allow Unconditioned NRCC	wed Lighting Power -LTI-03-E. page 1		344			ategory Method or Tailored Method is used for co rack lighting in schedule, and submit the track ligh
				1							
D. Decla	ration of	Required Installation Certificates									
Declare b	y selecting	yes for all Installation Certificates that will be sub	mitte	ed. (Retain copies	and verify forms are co	ompleted and signed.)					
YES	NO	Form/Title									
~		NRCI-LTI-01-E - Must be submitted for all build	ngs				□ Field	Inspector			
	r	NRCI-LTI-02-E - Must be submitted for a lighting to be recognized for compliance.	g cont	trol system, or for	r an Energy Manageme	nt Control System (EMCS),	Field Inspector				
		NRCI-LTI-03-E - Must be submitted for a line-vo	-		-		☐ Field	Inspector			
		overcurrent protection panel used to energize	-	-		•		·····			
	~	NRCI-LTI-04-E - Must be submitted for two inte conference room, a multipurpose room, or a th	eater	to be recognized	for compliance.		□ Field	Inspector			
	~	NRCI-LTI-05-E - Must be submitted for a Power	Adjus	stment Factor (PA	F) to be recognized for	r compliance.	🛛 Field	Inspector			
	r	NRCI-LTI-06-E - Must be submitted for addition compliance.	al wa <sup>.</sup>	ttage installed in	a video conferencing st	tudio to be recognized for	□ Field	Inspector			
E Decla	ration of	Required Certificates of Acceptance									
		g all of the Certificates of Acceptance that will be s	ubmit	tted. (Retain copi	es and verify forms are	completed and signed.)					
		ficiency Standards - 2013 Nonresidential Compliance						May 2015	CA Build	ng Energy I	Efficiency Standards - 2013 Nonresidential Compliance
STATE OF C, INDOOI CEC-NRCC-L	R LIGHT					CALIFO	RNIA ENERO		INDOC		
CERTIFIC	ATE OF CO	MPLIANCE						NRCC-LTI-01-E	CERTIFI	ATE OF C	OMPLIANCE
Indoor Lig								(Page 5 of 6)	Indoor I		
Project Nan	<sup>ne:</sup> Mack	Flavor				Date Prepared: 9/22/2015			Project Na	<sup>me:</sup> Mac	k Flavor
1	o lichti-	Schodula Must Da Filled Out for Conditioned	10	ditioned frame	Installed Light's - De	ar listed on this list in a l	adula :-	nhu foru	DOCUM		AUTHOR'S DECLARATION STATEMENT
-	e Lighting DITIONED S	Schedule Must Be Filled Out for Conditioned and U SPACE I UNCONDITIONED SPACE	incon	aitioned Spaces.	installea Lighting Powe	er listea on this Lighting Sch	eaule is oi	nıy Jor:	1. I ce		is Certificate of Compliance documentation is accurate
		ITING SCHEDULE and FIELD INSPECTION			r			]	Company:		PANKAJ PATEL
		Luminaire Schedule		Installed W		Location	]	Field Inspector <sup>1</sup>	Address:		
A		B C		D	E F	G		Н	City/State/	lip:	12927 GALEWOOD DR.
				How wattage was							APPLE VALLEY, CA 92308

Α	В	С		D	E	F	G		Н
			How wat	tage was mined		d area			
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	CEC Default from NA8	According to §130.0(c)	Number Luminaires	Total Installed Watts in this ar (C × E )	Primary Function area in which these luminaires are installed	Pass	Fail
F1	4' LED - 50W	50.0	Ø		4	200	Comp Bldg Ind Work, Low Bay		
		INS	TALLED W	ATTS PAG	E TOTAL:	200	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		
1						1	I NRCC-LII-UI-C, Page Z	1	

CA Building Energy Efficiency St	andards - 2013 Nonresidential Compliance	9											May	2015		CA Building Energy Efficien	cy Standards - 2013 Nonresidential Complianc
STATE OF CALIFORNIA <b>NDOOR LIGHTING</b> — CEC-NRCC-LTI-02-E (Revised 05/15)	LIGHTING CONTROLS									C		NIA ENERG	Y COMM		<u>B</u>	STATE OF CALIFORNIA INDOOR LIGHTIN CEC-NRCC-LTI-02-E (Revised 0	G – LIGHTING CONTROLS
CERTIFICATE OF COMPLIANC														RCC-LTI	-02-E	CERTIFICATE OF COMPL	
Indoor Lighting - Lighting Co	ntrols													(Page 2	of 3)	Indoor Lighting - Lightin	g Controls
Project Name: Mack Flavor									Date Prepa	<sup>ared:</sup> 9/22/201						Project Name: Mack Flavor	
A separate document m	nust be filled out for Conditione CES I UNCONDITIONED		ncondit	ionec	l Spac	es. Th	is pag	e is u	sed or	nly for the f	ollov	ving:					R'S DECLARATION STATEMENT ficate of Compliance documentation is accurat PANKAJ PATEL
									nd []							Company:	
	SCRIPTIVE INDOOR LIGHTING C			DOLE	, РАГ			JN, a	na Fi							Address:	12927 GALEWOOD DR.
										PAF Credi		liation	_ :	<   ₩ .	Field	City/State/Zip:	APPLE VALLEY, CA 92308
										6			est R	Ann	eld In	RESPONSIBLE PERSON'S D	ECLARATION STATEMENT
Ligh	nting Control Schedule	1	(* ;	all that		Comply or ente	er 'E' if		oted)	Watts of Controlled Lighting	PAF	Control Credit (K x L)	Test Required	nt -	nspector	1. The information prov	under penalty of perjury, under the laws of th ided on this Certificate of Compliance is true a vision 3 of the Business and Professions Code 1
A Location in Building	B Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc)	C # of Units	<b>△</b> §130.1(a)	<b>u</b> §130.0(b)	F §130.1(c)	<b>G</b> §130.1(d)	<b>H</b> §130.1(e)	- §140.6(a)2	§140.6(d)	ĸ	<u> </u>	M	N	Pass	0 Fail	Compliance conform 4. The building design fa documents, workshe 5. I will ensure that a co enforcement agency builder provides to th	nd performance specifications, materials, com to the requirements of Title 24, Part 1 and Par eatures or system design features identified on ets, calculations, plans and specifications subm mpleted signed copy of this Certificate of Com for all applicable inspections. I understand that e building owner at occupancy.
New Equipment Room	Occupancy Sensor	4	Х	Х	Х	Х	Х									Responsible Designer Name:	PANKAJ PATEL
																Company :	
																Address:	12927 GALEWOOD DR.
																City/State/Zip:	APPLE VALLEY, CA 92308
		-1			Co	ontrol C	redit P	AGE TO	OTAL (S	um of Colum	1 M):	0					
	IF MULTIPLE PAGES ARE USED, EN	NTER SUM	TOTAL	OF Con	trol Cr	edit for	all pag	es HEF	RE (Sum	n of all Colum	1 M):	0					
												Enter C into NR 1.	CC-LTI-	01-E; Pa			
Additional lighting controls i	controls; §130.0(b) = Multi Level; §130 nstalled to earn a PAF; §140.6(d) = Pre orrect Factor. PAFs shall not be traded , signed, and submitted.	escriptive s	Seconda	ry Side	lit Day	light Co	ntrols.								te is		
	ndards - 2013 Nonresidential Compliance													May 2			y Standards - 2013 Nonresidential Compliance

ALIFORNIA <b>R LIGHTING</b> .TI-01-E (Revised 05/15)	CALIFO	
ATE OF COMPLIANCE		NRCC-LTI-01-E
ghting		(Page 3 of 6)
<sup>ne:</sup> Mack Flavor	Date Prepared: 9/22/2015	
NO Form/Title		
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch control	rols.	Field Inspector
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.		□ Field Inspector
✓ NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.		□ Field Inspector
te Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Por DITIONED SPACE UNCONDITIONED SPACE	wer listed on this Lighting Sci	hedule is only for:

r Lighting Schedule and Field Inspection Energy Checklist

actual indoor lighting power listed on this page and on the next page includes all installed permanent and planned portable lighting systems. n Complete Building Method is used for compliance, list each different type of luminaire on separate lines.

n Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines include track lighting in schedule, and submit the track lighting compliance form (NRCC-LTI-05-E) when line-voltage track lighting is installed.

STATE OF CALIFORNIA INDOOR LIGHTIN CEC-NRCC-LTI-01-E (Revised		
CERTIFICATE OF COMP		NRCC-LTI-01-E
Indoor Lighting		(Page 6 of 6)
Project Name: Mack Fla	ivor	Date Prepared: 9/22/2015
DOCUMENTATION AUTH	IOR'S DECLARATION STATEMENT	
1. I certify that this Cer	tificate of Compliance documentation is accurate and con	nplete.
Documentation Author Name:	PANKAJ PATEL	Documentation Author Signature:
Company:		Signature Date: 9/22/2015
Address:	12927 GALEWOOD DR.	CEA Certification Identification (if applicable):
City/State/Zip:	APPLE VALLEY, CA 92308	Phone: 760-486-8272
RESPONSIBLE PERSON'S	DECLARATION STATEMENT	
<ol> <li>The information pro</li> <li>I am eligible under D (responsible designe</li> <li>The energy features Compliance conform</li> <li>The building design documents, workshi</li> <li>I will ensure that a c enforcement agency builder provides to t</li> </ol>	er). and performance specifications, materials, components, n to the requirements of Title 24, Part 1 and Part 6 of the features or system design features identified on this Certi eets, calculations, plans and specifications submitted to th completed signed copy of this Certificate of Compliance sh	:. responsibility for the building design or system design identified on this Certificate of Compliance and manufactured devices for the building design or system design identified on this Certificate of California Code of Regulations. ficate of Compliance are consistent with the information provided on other applicable compliance he enforcement agency for approval with this building permit application. all be made available with the building permit(s) issued for the building, and made available to the sted signed copy of this Certificate of Compliance is required to be included with the documentation the
Responsible Designer Name:	PANKAJ PATEL	Responsible Designer Signature:
Company :		Date Signed: 07/01/2015
Address:	12927 GALEWOOD DR.	License: E-16245
City/State/Zip:	APPLE VALLEY, CA 92308	Phone: 760-486-8272

May 2015

May 2015

ung Lhergy Lincler	ncy Standards - 2013 Nonresidential Compliance	May 2015
F CALIFORNIA OR LIGHTIN CC-LTI-02-E (Revised (	G – LIGHTING CONTROLS	
ICATE OF COMPL	IANCE	NRCC-LTI-02-E
Lighting - Lightin	g Controls	(Page 3 of 3)
me: Mack Flavor		Date Prepared: 9/22/2015
IENTATION AUTHO	DR'S DECLARATION STATEMENT	
/	ificate of Compliance documentation is accurate and cor	nplete.
tation Author Name:	PANKAJ PATEL	Documentation Author Signature:
		Signature Date: 9/22/2015
	12927 GALEWOOD DR.	CEA Certification Identification (if applicable):
e/Zip:	APPLE VALLEY, CA 92308	Phone: 760-486-8272
NSIBLE PERSON'S I	DECLARATION STATEMENT	
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ble Designer Name:	PANKAJ PATEL	Responsible Designer Signature:
		Date Signed: 07/01/2015
<i>/</i> :		
/:	12927 GALEWOOD DR.	License: E-16245



Revision Description



**TITLE 24 FORMS** 

CEC-NRCC-LTI-03-E (Revised 05/15)					
CERTIFICATE OF COMPLIANCE					NRCC-LTI-03
Certificate of Compliance - Indoor Lighting Power Allowance		ate Prepared:			(Page 1 of
Project Name: Mack Flavor		ate riepaieu.	9/22/2015		
ALLOWED LIGHTING POWER					
A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is or	lly for:				
CONDITIONED spaces     Image: Conditioned spaces					
A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES					
□ If using Complete Building Method for compliance, use only the total in column (a) as tota	allowed building watts.				
If using Area Category Method, Tailored Method, or a combination of Area Category and T allowed building watts	_	liance, u	use only the total in c	olumn	(b) as the total
			(a)		(b)
			(4)		(~)
. Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (belo	v on this page)		344		()
2. Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below	on this page)	w 1			
<ol> <li>Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below</li> <li>Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E</li> <li>TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRC</li> </ol>	on this page)	w 1	344		
<ul> <li>Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below</li> <li>Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E</li> <li>TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRC</li> <li>Check here if building contains both conditioned and unconditioned areas.</li> </ul>	on this page)	w 1	344		D
<ul> <li>Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below</li> <li>Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E</li> <li>TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRC</li> <li>Check here if building contains both conditioned and unconditioned areas.</li> <li>B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE</li> </ul>	CC-LTI-01, Page 2, Ro	w 1	344		
<ul> <li>Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below</li> <li>Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E</li> <li>TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRC</li> <li>Check here if building contains both conditioned and unconditioned areas.</li> <li>B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE</li> </ul>	CC-LTI-01, Page 2, Ro	w 1	344 344 C C COMPLETE		D
<ul> <li>Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below</li> <li>Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E</li> <li>TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRG</li> <li>Check here if building contains both conditioned and unconditioned areas.</li> <li>B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE</li> <li>A</li> </ul>	CC-LTI-01, Page 2, Ro		344 344 C C COMPLETE		D
<ul> <li>Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below</li> <li>Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E</li> <li>TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRC</li> <li>Check here if building contains both conditioned and unconditioned areas.</li> <li>B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE</li> <li>A</li> </ul>	CC-LTI-01, Page 2, Ro B WATTS PER (ft <sup>2</sup> )	x	344 344 C C COMPLETE BLDG. AREA	=	D ALLOWED WATTS
Check here if building contains both conditioned and unconditioned areas.  B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE  A  TYPE OF BUILDING (From §140.6 Table 140.6-B)  Comp Bldg Ind Work, Low Bay	CC-LTI-01, Page 2, Ro B WATTS PER (ft <sup>2</sup> ) 1.00	X vrea:	344           344           344           C           COMPLETE           BLDG. AREA           344		D ALLOWED WATTS
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<ul> <li>Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below</li> <li>Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E</li> <li>TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRC</li> <li>Check here if building contains both conditioned and unconditioned areas.</li> <li>B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE</li> <li>A</li> </ul>	CC-LTI-O1, Page 2, Ro B WATTS PER (ft <sup>2</sup> ) 1.00 Total <i>J</i> er Total Watts into sectio plus C-3)	x area: A, row	344       344       344       C       COMPLETE       BLDG. AREA       344       1 (Above on this page)		D ALLOWED WATTS
Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRC Check here if building contains both conditioned and unconditioned areas. B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE A TYPE OF BUILDING (From §140.6 Table 140.6-B) Comp Bldg Ind Work, Low Bay Total Watts. Enter	CC-LTI-O1, Page 2, Ro B WATTS PER (ft <sup>2</sup> ) 1.00 Total <i>J</i> er Total Watts into sectio plus C-3)	x rea: A, row	C C COMPLETE BLDG. AREA 344 1 (Above on this page om section C-2 .		D ALLOWED WATTS 344
Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRG Check here if building contains both conditioned and unconditioned areas. B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE A TYPE OF BUILDING (From §140.6 Table 140.6-B) Comp Bldg Ind Work, Low Bay Total Watts. Enter	CC-LTI-O1, Page 2, Ro B WATTS PER (ft <sup>2</sup> ) 1.00 Total <i>J</i> er Total Watts into sectio plus C-3)	x rea: A, row	344       344       344       C       COMPLETE       BLDG. AREA       344       1 (Above on this page)		D ALLOWED WATTS 344

STATE OF CALIFORNIA INDOOR LIGHTING POWER CEC-NRCC-LTI-03-E (Revised 05/15)		
CERTIFICATE OF COMPLIANCE		NRCC-LTI-03-E
Certificate of Compliance - Indoor Lig	ghting Power Allowance	(Page 4 of 4)
Project Name: Mack Flavor		Date Prepared: 9/22/2015
DOCUMENTATION AUTHOR'S DECLARA	TION STATEMENT	
1. I certify that this Certificate of Comp	pliance documentation is accurate and complete.	
Documentation Author Name:	PANKAJ PATEL	Documentation Author Signature:
Company:		Signature Date:9/22/2015
Address:	12927 GALEWOOD DR.	CEA Certification Identification (if applicable):
City/State/Zip:	APPLE VALLEY, CA 92308	Phone: 760-486-8272
RESPONSIBLE PERSON'S DECLARATION	STATEMENT	
<ol> <li>The information provided on this Construction</li> <li>I am eligible under Division 3 of the (responsible designer).</li> <li>The energy features and performant Compliance conform to the require</li> <li>The building design features or syst documents, worksheets, calculation</li> <li>I will ensure that a completed signed</li> </ol>	nce specifications, materials, components, and man ments of Title 24, Part 1 and Part 6 of the California em design features identified on this Certificate of ns, plans and specifications submitted to the enforce ed copy of this Certificate of Compliance shall be ma ple inspections. I understand that a completed sign ner at occupancy.	ility for the building design or system design identified on this Certificate of Compliance
Responsible Designer Name.	PANKAJ PATEL	
Company :		Date Signed: 07/01/2015
Address:	12927 GALEWOOD DR.	License: E-16245
City/State/Zip:	APPLE VALLEY, CA 92308	Phone: 760-486-8272

CA Build	ling Energy Efficiency Standa	ards - 2013 Nonresidential Compliance

May 2015

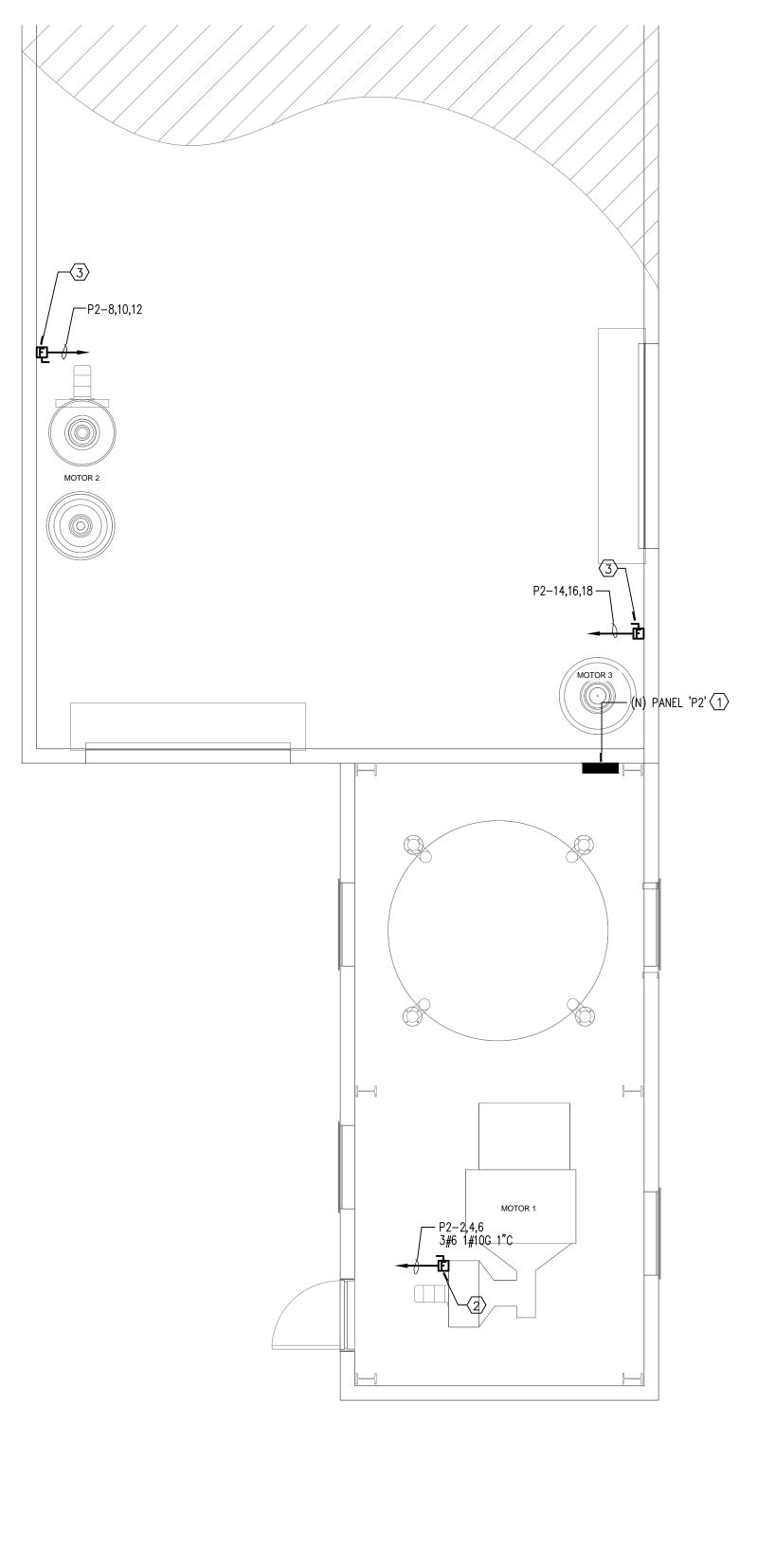
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CERTIFICATE OF COMPLIANCE				NRCC-LTI-03-E	CERTIFICATE OF COM						NRCC-LTI-03
Certificate of Compliance - Indoor Lighting F	Power Allowance			(Page 2 of 4)	Certificate of Complia	nce - Indoor Light	ing Power Allo	wance			(Page 3 of
Project Name: Mack Flavor		Date Prepared	9/22/2015		Project Name: Mack Flavo	r			Date Prepared: 9/22/2	015	
A separate page must be filled out for Con CONDITIONED spaces	ditioned and Unconditioned Spaces. This page is only for:				A separate page must			d Unconditioned Spa NDITIONED spaces	aces. This page is only for:		
C -2 AREA CATEGORY METHOD GEN	ERAL LIGHTING POWER ALLOWANCE				C-3 AREA CATEGO	DRY METHOD	Addition	al Lighting Watta	age Allowance (from Table 140.6-C Footnotes)		
	ces. Portable lighting for offices shall be documented only in	n section B of NRCC-ITI-	01-F		А	В	C <sup>2</sup>	D	E	F	G
	function area as defined in §100.1 of the Standards.						Additional	Wattage			ALLOWED WATTS
	A	В	С	D	Primary	Sq Ft or	Watts	Allowance	Description(s) and Quantity of Special	Total Design	Smaller of
AREA CATEGORY	' (From §140.6 Table 140.6-C)	WATTS		ALLOWED	Function	linear ft <sup>1</sup>	Allowed	(B x C)	Luminaire Types in each Primary Function Area	Watts <sup>3</sup>	D or F
Location in Building	Primary Function Area per Table 140.6-C	PER (ft <sup>2</sup> )	K AREA (ft <sup>2</sup> ) =	WATTS							
l											
									nter into TOTAL AREA CATEGORY METHOD ADDITIONAL ALLOWAN	CFS – Section C-1	0
					1. Use linear feet only	for additional allo	wance for whit		ard. All other additional Area Category allowances shall use v		ot.
					-				otes on bottom of Table 146-C, which include: Specialized ta		
		TOTALS	0						or chalk board; Accent, display and feature lighting; and Vide		
Enter su	um total Area Category allowed watts into section C-1	of NRCC-LTI-03-E (this	compliance form)	0					with §130.0(c) of the Standards.		
				WATTS					••		
CA Building Energy Efficiency Standards - 2013 No	nresidential Compliance		· · ·	May 2015	CA Building Energy Efficie	ncv Standards - 201	3 Nonresidentia	l Compliance			May 2015



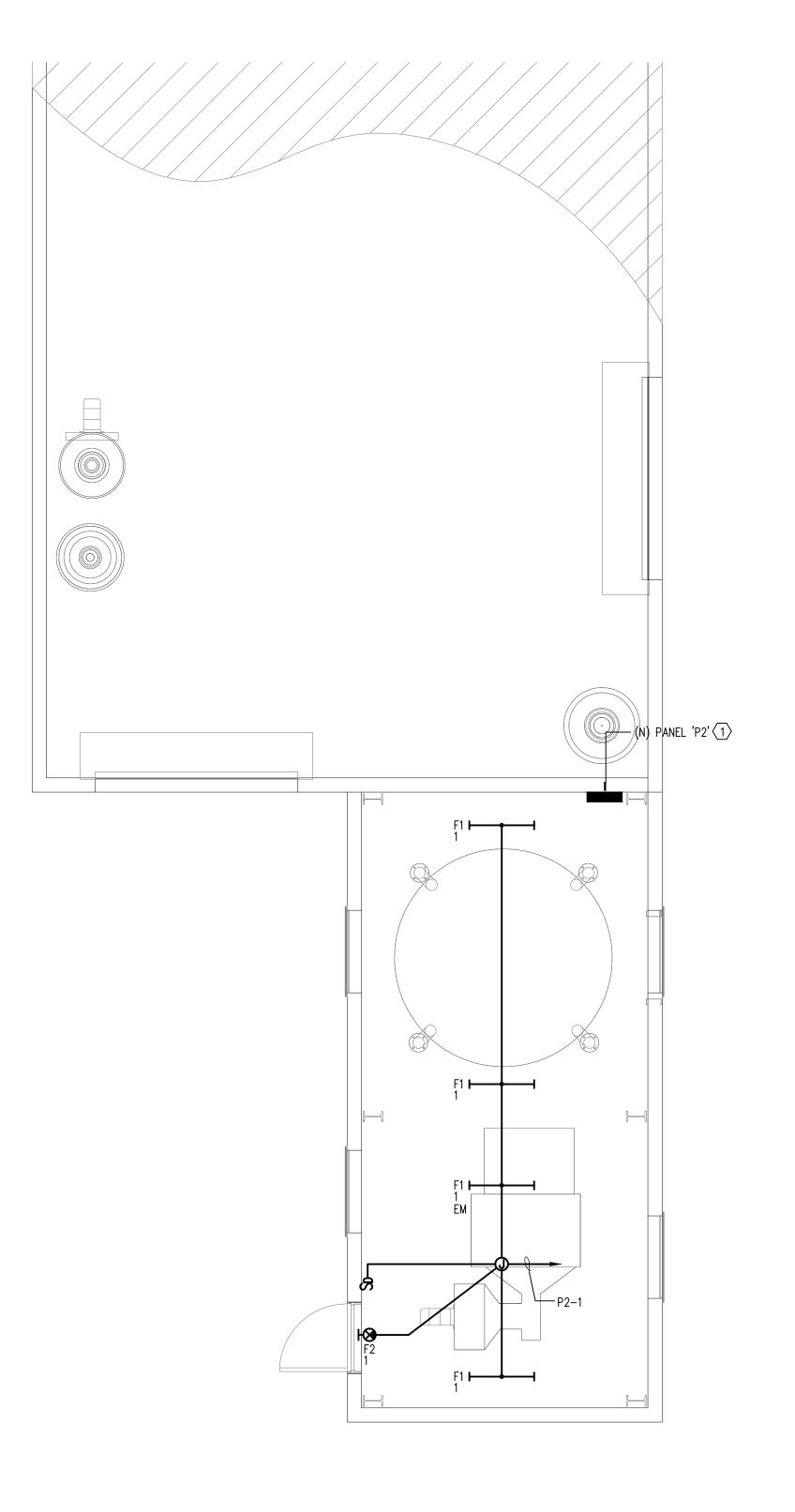
Revision
Number Description

Date









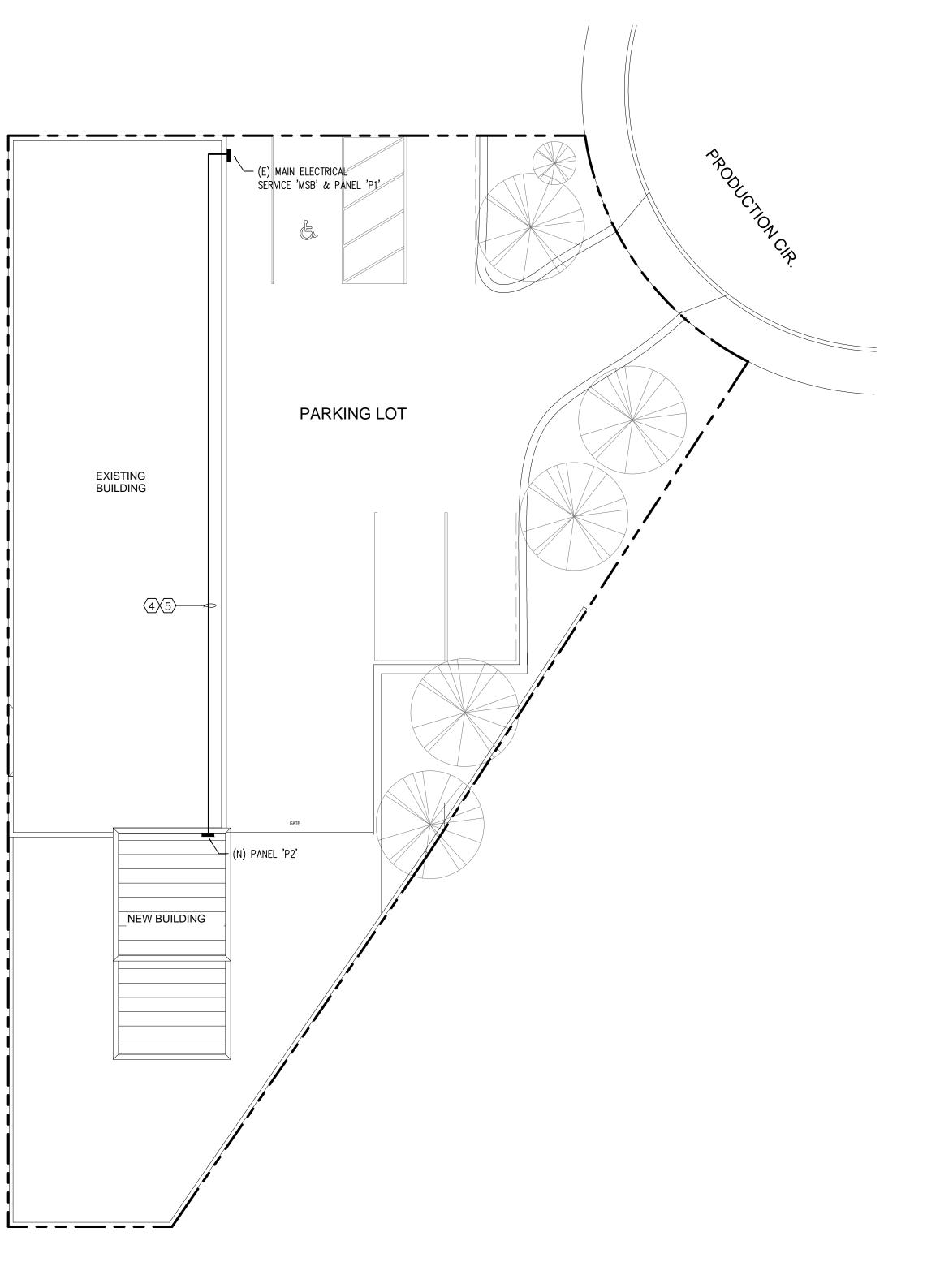






## **KEYED NOTES**

- PROVIDE MIN. 3' CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT, PER NEC 110.26.
- PROVIDE AND INSTALL 60A 3P RATED DISCONNECT. FUSING AND STARTER SIZE PER MECHANICAL EQUIPMENT
- MANUFACTURERS REQUIREMENTS. VERIFY EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR.  $\overline{\langle 3 \rangle}$  provide and install 30A 3P rated disconnect. Fusing AND STARTER SIZE PER MECHANICAL EQUIPMENT MANUFACTURERS REQUIREMENTS. VERIFY EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- $\langle 4 \rangle$  REFER. TO SINGLE LINE DIAGRAM FOR FEEDER SCHEDULE.
- 5 SUPPORT CONDUIT TO CEILING EVERY 10' AND WITHIN 3' OF ANY BOXES OR TERMINATIONS.







**W**(CONSTRUCTION) **CUSTOM DESIGNS** 1844 W. 11th st. Suite D Upland Ca. 91786-3586 Phone: (909)-262-9766 Email: WADESHUEY@AOL.COM Custom Homes • Remodels and Additions • Project Management • Full Plan Service • Commercial • As-Built •

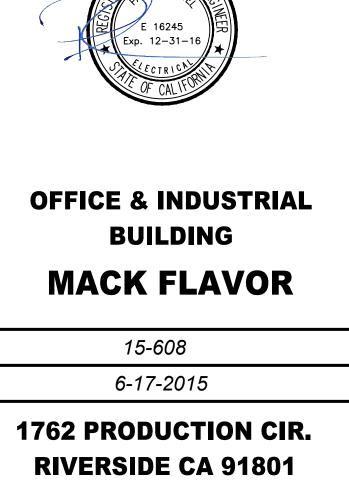
> Revision Description

Date

### **KEYED NOTES**

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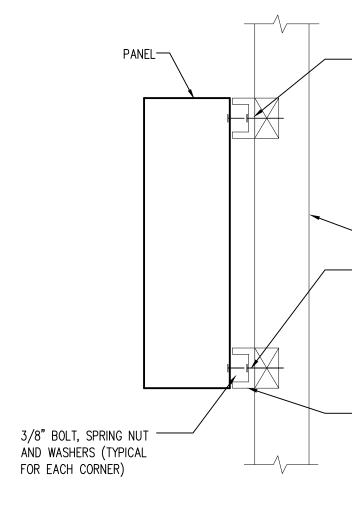
 $\langle \underline{2} \rangle$  provide and install 60A 3P rated disconnect. Fusing AND STARTER SIZE PER MECHANICAL EQUIPMENT MANUFACTURERS REQUIREMENTS. VERIFY EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR. 3 PROVIDE AND INSTALL 30A 3P RATED DISCONNECT. FUSING AND STARTER SIZE PER MECHANICAL EQUIPMENT MANUFACTURERS REQUIREMENTS. VERIFY EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR. (4) REFER. TO SINGLE LINE DIAGRAM FOR FEEDER SCHEDULE. 5 SUPPORT CONDUIT TO CEILING EVERY 10' AND WITHIN 3' OF ANY BOXES OR TERMINATIONS.



E201

**POWER FLOOR** 

PLANS

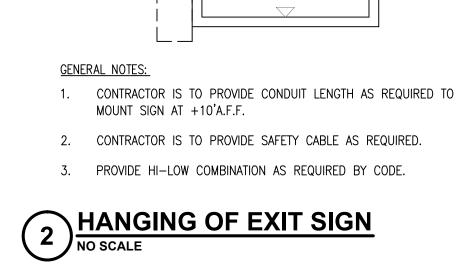


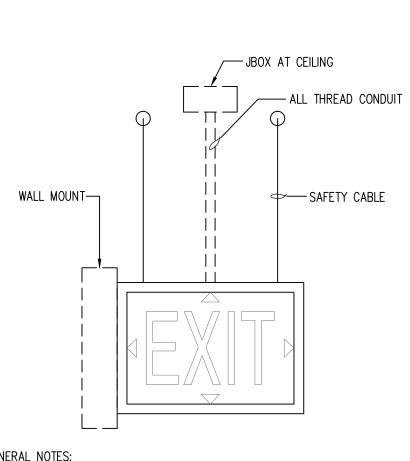
1 PANEL ON WALL DETAIL NO SCALE

— P—1000 UNISTRUT, LENGTH AS REQUIRED

1/4"ø x 3" LONG LAG BOLT (4 TOTAL), PREDRILL BACKING

— FASTEN UNISTRUT TO BUILDING WALL STUD 4 PLACES (1 EACH CORNER)







Revision
Number Description

Date











**OFFICE & INDUSTRIAL** 

BUILDING

**MACK FLAVOR** 

15-608

6-17-2015

**1762 PRODUCTION CIR.** 

**RIVERSIDE CA 91801** 

E301

ELECTRICAL

DETAILS



1.01 SCOPE OF WORK WORK COVERED BY THIS SECTION CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, SUPPLIES, AND MATERIALS, UNLESS OTHERWISE SPECIFIED, AND IN PERFORMING ALL OPERATIONS NECESSARY FOR THE INSTALLATION OF A COMPLETE AND OPERABLE ELECTRICAL SYSTEM AS REQUIRED BY THESE SPECIFICATIONS AND AS INDICATED ON THE DRAWINGS.

- B. THE CONTRACTOR SHALL EXAMINE ALL DRAWINGS AND SPECIFICATIONS IN A MANNER TO BE FULLY COGNIZANT OF ALL WORK REQUIRED UNDER THIS SECTION.
- C. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS UNLESS OTHERWISE ARRANGED AND SCHEDULE ALL REQUIRED INSPECTIONS FOR THE EXECUTION OF THE WORK UNDER THIS CONTRACT. 1.02 GENERAL REQUIREMENTS
- A. WORK DONE UNDER THIS SECTION SHALL COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE, NEC (NATIONAL ELECTRICAL CODE), THE STATE OF CALIFORNIA TITLE 24, THE STATE BUILDING STANDARDS, (OSHA) OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, AND TO ANY APPLICABLE LOCAL JURISDICTIONAL REQUIREMENTS. IN CASE OF CONFLICT BETWEEN REQUIREMENT, THE MOST RESTRICTIVE SHALL APPLY.

1.03 ELECTRICAL CONTRACTOR'S RESPONSIBILITY

- A. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL CHECK THE DRAWINGS OF THE OTHER TRADES AND SHALL CAREFULLY READ THE ENTIRE SPECIFICATIONS AND DETERMINE HIS RESPONSIBILITIES.
- BEFORE SUBMITTING THE BID, THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FULLY ACQUAINT HIMSELF WITH EXISTING CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL THE EQUIPMENT AND ASSOCIATED WIRING IN SUCH A MANNER AS TO CONFORM WITH THE EXISTING STRUCTURE OF THE BUILDING, AVOID OBSTRUCTIONS, AND MEET APPLICABLE CODE REQUIREMENTS.
- C. THE INTENT OF THESE DRAWINGS IS TO DESCRIBE A COMPLETE AND OPERABLE SYSTEM. WHERE EXISTING CONDITIONS DIFFER FROM DRAWINGS, ADJUSTMENT SHALL BE MADE AND ALLOWANCES INCLUDED FOR ALL NECESSARY EQUIPMENT TO COMPLETE ALL PARTS OF THE DRAWINGS AND SPECIFICATIONS. BRING ANY QUESTIONS TO THE ARCHITECT OR ENGINEER'S ATTENTION PRIOR TO BIDDING.
- WHEREVER A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT, DEVICES, CIRCUIT BREAKERS, ETC., ARISES ON THE DRAWING AND/OR SPECIFICATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITION NOTED ON DRAWINGS AND/OR IN SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER AND ENGINEER.
- 1.04 WORK NOT INCLUDED
- A. CERTAIN LABOR, MATERIALS, OR EQUIPMENT MAY BE FURNISHED UNDER OTHER CONTRACTS BY THE OWNER. WHEN SUCH IS THE CASE, THE EXTENT, SOURCE, AND DESCRIPTION OF THESE ITEMS WILL BE INDICATED ON THE DRAWINGS OR DESCRIBED IN THE SPECIFICATIONS. UNLESS OTHERWISE NOTED, ALL LABOR, MATERIALS AND EQUIPMENT FOR THE COMPLETE INSTALLATION OF THE ELECTRICAL WORK SHALL BE PROVIDED UNDER THIS SECTION OF THESE SPECIFICATIONS. 1.05 SPECIAL REQUIREMENTS
- A. THE DRAWINGS INDICATE GENERAL ARRANGEMENT OF CIRCUITS, OUTLETS, LOCATIONS OF MOTOR CONTROLLERS WITH DISCONNECTS, PANELBOARDS, CONDUIT ROUTING, AND OTHER WORK. INFORMATION SHOWN ON THE DRAWINGS IS ESSENTIALLY DIAGRAMMATIC; HOWEVER, RECIRCUITING OR RELOCATING ELECTRICAL EQUIPMENT WILL NOT BE PERMITTED WITHOUT SPECIFIC WRITTEN APPROVAL OF THE ENGINEER.

1.06 SUBMITTALS

- AFTER AWARD OF THE CONTRACT AND BEFORE ANY MATERIALS ARE DELIVERED TO THE JOB SITE, A COMPLETE LIST OF ALL MATERIALS PROPOSED TO BE FURNISHED AND INSTALLED UNDER THIS SECTION MUST BE PROVIDED.
- SUBMIT TO THE ENGINEER FOR APPROVAL ONE PRINT AND ONE REPRODUCIBLE OF ALL LIGHTING FIXTURES, SWITCHGEAR, PANELBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, CONDUIT, CONDUCTORS, PULLBOXES, AND MOTOR STARTERS. SHOP DRAWINGS SHALL INCLUDE MANUFACTURER'S PRINTED INFORMATION FOR EACH OF THESE ITEMS IDENTIFIED ON THE DRAWINGS. THE INFORMATION SHALL INCLUDE, AS MINIMUM, OVERALL DIMENSIONS, WEIGHT, PHASE, VOLTAGE RATINGS, WIRING DIAGRAMS, AND NAMEPLATE DATA.
- 1.07 STANDARDS AND MATERIALS
- A. ALL MATERIALS SHALL CONFORM WITH THE CURRENT APPLICABLE INDUSTRY STANDARDS, NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION), ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE), IPCEA (INSULATED POWER CABLE ENGINEERS ASSOCIATION), IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS), NATIONAL ELECTRICAL SAFETY CODE.
- B. UNLESS OTHERWISE INDICATED, ALL MATERIALS SHALL BE UNDERWRITERS LABORATORIES LISTED AND LABELED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
- WORKMANSHIP AND NEAT APPEARANCE SHALL BE AS IMPORTANT AS THE ELECTRICAL MECHANICAL EFFICIENCY. DEFECTIVE ANI DAMAGED MATERIALS SHALL BE REPLACED OR REPAIRED PRIOR TO FINAL APPROVAL AND ACCEPTANCE. THE DRAWINGS AND SPECIFICATIONS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT THAN CODES, STATUTES, OR ORDINANCES IN EFFECT. APPLICABLE CODES, STANDARDS, ORDINANCES, AND STATUTES TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH THE DRAWINGS OR SPECIFICATIONS.
- 1.08 DELIVERY AND STORAGE OF MATERIALS
- A. THE CONTRACTOR SHALL INVESTIGATE EACH SPACE IN THE BUILDING THROUGH WHICH EQUIPMENT MUST PASS TO REACH ITS FINAL LOCATIONS. IF NECESSARY, THE MANUFACTURER SHALL BE REQUIRED TO SHIP HIS MATERIAL IN SECTIONS, SIZED TO PERMIT PASSING THROUGH SUCH RESTRICTED AREAS IN THE BUILDING. B. THE CONTRACTOR SHALL RETAIN IN HIS POSSESSION AND SHALL BE RESPONSIBLE FOR ALL PORTABLE AND DETACHABLE PARTS
- OF PORTIONS OF INSTALLATIONS SUCH AS FUSES, KEY LOCKS, ADAPTERS, BLOCKING CLIPS, AND INSERTS UNTIL FINAL COMPLETION OF WORK. THESE PARTS SHALL BE DELIVERED TO THE OWNER UPON COMPLETION OF THE WORK. PART 2 PRODUCTS

2.01 EQUIPMENT AND MATERIALS

- A. ALL MATERIALS FURNISHED AND INSTALLED UNDER THIS CONTRACT SHALL BE NEW, FREE FROM DEFECTS, AND SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE OF THE WORK. SHOULD ANY TROUBLE DEVELOP DURING THEIR PERIOD DUE TO DEFECTIVE MATERIALS OR FAULTY WORKMANSHIP. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS AND LABOR TO CORRECT THE TROUBLE WITHOUT ANY COST TO THE OWNER. ANY DEFECTIVE MATERIAL OR INFERIOR WORKMANSHIP NOTED AT THE TIME OF INSTALLATION SHALL BE CORRECTED IMMEDIATELY TO THE SATISFACTION OF THE OWNER.
- B. ALL MAJOR EQUIPMENT COMPONENTS SHALL HAVE THE MANUFACTURER'S NAME, ADDRESS, MODEL NUMBER, AND SERIAL NUMBER PERMANENTLY ATTACHED IN A CONSPICUOUS MANNER. 2.02 CONDUIT
- PROVIDE RACEWAYS AS INDICATED ON THE DRAWINGS AND AS HEREIN SPECIFIED. CONDUITS SHALL BE RIGID STEEL "GRC" (THICK WALL) GALVANIZED; ELECTRICAL METALLIC TUBING "EMT" (THIN WALL); FLEXIBLE STEEL, GALVANIZED; LIQUID-TIGHT, FLEXIBLE STEEL CONDUIT WITH GROUND BOND; ALUMINUM CONDUIT; OR SCHEDULE 40 PVC.
- B. ALL EMPTY CONDUITS (CO) SHALL BE SCHEDULE 40 PVC UNLESS OTHERWISE INDICATED ON THE DRAWING. WHERE CONDUIT CROSSES AN EXPANSION JOINT, PROVIDE APPROVED FITTINGS WHICH ALLOW DEFLECTIONS EQUIVALENT TO TWICE THE MOVEMENT ALLOWED BY THE DESIGN.
- 2.03 CONDUCTORS
- PROVIDE A COMPLETE SYSTEM OF CONDUCTORS IN RACEWAY SYSTEMS AS SHOWN ON THE DRAWINGS AND THEN HEREIN SPECIFIED
- B. LIGHTING AND POWER CONDUCTORS SHALL BE COPPER, 600 VOLT, TYPE THWN/THHN, NO. 12 MINIMUM UNLESS OTHERWISE NOTED
- C. CONTROL CONDUCTORS SHALL BE 600V, TYPE THWN/THHN, NO.14 MINIMUM SIZE UNLESS OTHERWISE NOTED. 2.04 FITTINGS
- CONNECTOR, COUPLING, LOCKNUT, BUSHINGS AND CAPS USED WITH RIGID CONDUIT SHALL BE STEEL, THREADED AND GALVANIZED. BUSHINGS SHALL BE INSULATED.
- EMT FITTINGS, CONNECTORS AND COUPLINGS SHALL BE STEEL, ZINC, OR CADMIUM PLATED, COMPRESSION TYPE, WITH INSULATED
- C. FLEXIBLE STEEL CONDUIT CONNECTORS SHALL BE TWIST-IN-TYPE WITH INSULATED THROAT. THE FINISH SHALL BE ZINC OR CADMIUM PLATING. D. EMT CONDUIT FITTINGS SHALL BE THE COMPRESSION TYPE; SET SCREW FITTINGS SHALL NOT BE USED.
- 2.05 JUNCTION AND PULL BOXES

WITH PLASTER RINGS WHERE REQUIRED.

- A. FOR INTERIOR DRY LOCATIONS, BOXES SHALL BE GALVANIZED ONE-PIECE DRAWN STEEL, KNOCKOUT TYPE WITH REMOVABLE, MACHINE SCREW SECURED COVERS.
- B. FOR EXTERIOR WET LOCATIONS, BOXES SHALL BE NEMA 3R OR NEMA 4 RATED, GASKET MACHINE SCREW SECURED COVERS.
- INGROUND PULLBOXES SHALL BE CONCRETE ELECTRICAL PULL BOX WITH LID APPROPRIATE FOR INSTALLATION LOCATION. SIZE C. PULLBOX PER NEC REQUIREMENTS. D. ALL BOXES SHALL BE SIZED FOR THE NUMBER AND SIZES OF CONDUCTORS AND CONDUITS ENTERING THE BOX AND EQUIPPED
- 2.06 PANELBOARDS
- FURNISH AND INSTALL ALL BRANCH CIRCUIT PANELBOARDS AS HEREINAFTER SPECIFIED AND AS SHOWN ON THE DRAWINGS. PANELBOARDS SHALL BE OF THE DEAD FRONT SAFETY TYPE EQUIPPED WITH THE THERMAL MAGNETIC 40°C CIRCUIT BREAKERS.
- CIRCUIT BREAKERS SHALL BE RATED MINIMUM 10,000 AMPS RMS SYMMETRICAL INTERRUPTING CAPACITY AND SHALL BE THE NUMBER OF POLES AND CURRENT CAPACITY AS INDICATED ON THE PANEL SCHEDULE. BRANCH CIRCUIT PANELBOARDS SHALL BE SQUARE-D OR EATON/CUTLER HAMMER WITH LUGS UL LISTED FOR USE WITH 75°C WIRE.
- DOOR SHALL HAVE A PLASTIC COVERED DIRECTORY FRAME WITH A TYPED IDENTIFICATION CARD OR ALL CIRCUIT AND PANEL NUMBERS FOR BRANCH CIRCUIT PANELBOARDS. PROVIDE NAMEPLATE FOR ALL PANELBOARDS, ENGRAVED WHITE LETTERS ON BLACK BACKGROUND INSTALL NAME PLATES ON THE
- TRIM ABOVE DOOR E. ALL WIRING SHALL BE NEATLY ARRANGED AND LACED TOGETHER.
- F. BUS BARS SHALL BE RECTANGULAR IN CROSS SECTION CONSTRUCTED OF COPPER. NEUTRAL AND GROUND BUSES SHALL BE

- 2.07 LOW VOLTAGE SWITCHGEAR
- , GE, OR EATON/CUTLER HAMMER.

- RUST-INHIBITING PRIMER ON TREATED METAL SURFACE.
- SWITCHBOARD.

- FULL AMPERE RATING OF CIRCUIT-BREAKER POSITION.
- VERTICAL RUN.
- 4. CONTACT SURFACES OF BUSES: SILVER PLATED.

- FULL RATING OF CIRCUIT-BREAKER COMPARTMENT.
- 2.08 TRANSFORMERS N/A 2.09 ELECTRICAL CONNECTIONS
- THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR, EXCEPT WHERE WIRED INTEGRALLY WITH THE EQUIPMENT.
- 2.10 SUPPORTING DEVICES
- PART 3 EXECUTION
- 3.01 WORKMANSHIP AND COMPLETION OF INSTALLATION
- COST TO THE OWNER.
- FOR WORK ACCOMPLISHED. UPON COMPLETION OF THE WORK, A SET OF REPRODUCIBLE CONTRACT DRAWINGS SHALL BE OBTAINED FROM THE GENERAL CONTRACTOR AND ALL CHANGES AS NOTED ON THE RECORD SET OF PRINTS SHALL BE INCORPORATED THEREON WITH RED INK IN A NEAT, LEGIBLE, UNDERSTANDABLE AND PROFESSIONAL MANNER.
- AND DELIVERED IN A PERFECT, UNBLEMISHED CONDITION.
- UPON COMPLETION OF THE INSTALLATION AND AS A CONDITION OF ITS ACCEPTANCE FURNISH ONE COPY OF THE FINAL INSPECTION CERTIFICATE TO THE OWNER.
- 3.02 PREPARATION COORDINATION.
- AND OTHER TRADES. PROVIDE THE TYPE AND AMOUNT OF ELECTRICAL MATERIALS AND EQUIPMENT NECESSARY TO PLACE THIS WORK IN PROPER OPERATION. COMPLETELY WIRED TESTED AND READY FOR USE. THIS SHALL INCLUDE ALL CONDUIT, WIRE, DISCONNECTS, RELAYS, AND OTHER DEVICES FOR THE REQUIRED OPERATION SEQUENCE OF ALL ELECTRICAL, MECHANICAL, AND OTHER SYSTEMS OR EQUIPMENT.
- PERFORM ALL WORK IN A MANNER WHICH WILL NOT CAUSE UNNECESSARY INCONVENIENCE OR DANGER TO THE OCCUPANTS, NOR INTERFERE WITH THE ACTIVITIES IN THE BUILDING.
- 3.03 TRENCHING AND BACKFILLING
- 3.04 CORE CUTTING, DRILLING, AND PATCHING
- STRUCTURAL ENGINEER AND GENERAL CONTRACTOR.
- 3.05 INSTALLATION
- WORK PRACTICES.

- MEMBERS, OR INTERSECTION OF VERTICAL PLANES AND CEILINGS.
- INSTALL PRODUCTS ACCORDING TO MANUFACTURERS INSTRUCTIONS.
- F. ALL ROTATING ELECTRICAL EQUIPMENT SHALL BE SUPPLIED WITH A FLEXIBLE, LIQUID-TIGHT CONDUIT WITH APPROPRIATE SLACK AND SHALL NOT EXCEED THIRTY-SIX (36) INCHES.
- G. ALL POWER WIRING SHALL BE INSTALLED IN CONDUIT. 3.06 GROUNDING
- APPLICABLE CODES.
- SHALL BE NOT LESS THAN THAT SPECIFIED IN THE NEC.

- 3.08 IDENTIFICATION

3.07 BRANCH CIRCUITS

- A. THE FOLLOWING ITEMS SHALL BE EQUIPPED WITH NAMEPLATES:
- 1. ALL MOTORS, MOTOR STARTERS, CONTROL PANELS, MOTORS CONTROL REMOTE STATIONS.
- 2. ALL DISCONNECT AND SAFETY SWITCHES, MAIN DISTRIBUTION PANEL FEEDER OVERCURRENT DEVICES AND SPARES, CIRCUIT

A. ALL EQUIPMENT SHALL BE PROPERLY GROUNDED AS INDICATED ON DRAWINGS AND AS REQUIRED BY THE LATEST EDITION OF B. FURNISH AND INSTALL ALL GROUNDING CONDUCTORS, CONDUIT AND CLAMPS. THE SIZE OF THE GROUNDING CONDUCTORS BUILDING GROUNDING SYSTEM RESISTANCE TO GROUND SHALL NOT EXCEED 25 OHMS. D. EACH BRANCH CIRCUIT SHALL BE EQUIPPED WITH CODE SIZE GREEN GROUND, EQUIPMENT WIRE (PER NEC 250-95) (NOT INDICATED ON DRAWINGS) WITHIN THE SAME CONDUIT FOR ALL CIRCUITS OF PANELBOARDS. A. NO MORE THAN THREE BRANCH CIRCUITS PERMITTED IN ONE CONDUIT UNLESS INDICATED OTHERWISE

WHERE ALLOWED, EXPOSED CONDUIT RUNS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS, STRUCTURAL

SHALL BE RUN SO AS NOT TO INTERFERE WITH OTHER PIPING FIXTURES OR EQUIPMENT.

MAINTAIN WORKING CLEARANCE AROUND ELECTRICAL EQUIPMENT, IN ACCORDANCE WITH CODE REQUIREMENTS AS A MINIMUM. C. ALL CONDUIT TO BE RUN CONCEALED UNLESS OTHERWISE NOTED. ALL CONDUITS SHALL BE ROUTED OVERHEAD IN CEILING SPACES. NO CONDUITS SHALL BE PERMITTED IN CONCRETE SLAB, MASONRY WALLS UNLESS SPECIFICALLY SO INDICATED. CONDUIT

A. WORKMANSHIP IS TO BE NEAT, BY EXPERIENCED WORKMEN WITH ADEQUATE SUPERVISION, AND IN LINE WITH NORMAL INDUSTRY

A. NO HOLES WILL BE ALLOWED IN ANY STRUCTURAL MEMBERS WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT OR

A. PERFORM ALL SUCH TRENCHING AND BACKFILLING IN ACCORDANCE WITH DRAWING DETAILS.

THE CONTRACTOR SHALL COORDINATE AND SCHEDULE EACH POWER INTERRUPTION WITH OWNER, AND SHALL PROVIDE AT LEAST TWO WEEKS NOTICE OF PROPOSED INTERRUPTION AND WORK TO BE ACCOMPLISHED.

A. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH ALL OTHER CONTRACTORS FURNISHING LABOR, MATERIALS AND WORK, SO THAT THE WORK AS WHOLE SHALL BE EXECUTED AND COMPLETED WITHOUT CONFLICT OR DELAY. EXAMINE THE DRAWINGS AND SPECIFICATIONS AND DETERMINE THE WORK TO BE PERFORMED BY THE ELECTRICAL, MECHANICAL

ALL EQUIPMENT AND MATERIAL CONNECTED WITH THIS PROJECT SHALL BE INSTALLED COMPLETE, THOROUGHLY CLEANED, AND ALL RESIDUE REMOVED FROM INSIDE SURFACES. EXTERIOR SURFACES OF ALL MATERIAL AND EQUIPMENT SHALL BE CLEANED

WORKMANSHIP AND NEAT APPEARANCE SHALL BE AS IMPORTANT AS THE ELECTRICAL AND MECHANICAL EFFICIENCY. DEFECTIVE AND DAMAGED MATERIALS SHALL BE REPLACED OR REPAIRED PRIOR TO FINAL INTERPRETATIONS INCLUDED. ANY DEFICIENCY PERTAINING TO EITHER WORKMANSHIP OR MATERIALS FOUND BY THE INSPECTOR SHALL BE CORRECTED WITHOUT ADDITIONAL B. THE CONTRACTOR SHALL MAINTAIN ON JOB SITE A SET OF THE WORKING DRAWINGS WHICH SHALL BE UPDATED DAILY IN DETAIL

AND REQUIREMENTS. COMPLY WITH CHAPTER 23 OF THE LATEST CBC (CALIFORNIA BUILDING CODE).

A. ALL EQUIPMENT CONDUITS SHALL BE SUPPORTED, ANCHORED AND BRACED IN ACCORDANCE WITH THE MOST STRINGENT CODES

UNLESS OTHERWISE NOTED, ALL WIRING FOR MOTORS, STARTERS, CONTROLS, AND EQUIPMENT SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. WHERE MOTORS FOR MECHANICAL EQUIPMENT ARE FURNISHED BY OTHER DIVISIONS, WIRING SHALL BE

ISOLATION BARRIER ACCESS PROVISIONS: PERMIT CHECKING OF BUS-BOLT TIGHTNESS. NEUTRAL BUSES: 100 PERCENT OF THE AMPACITY OF PHASE BUSES, UNLESS OTHERWISE INDICATED, EQUIPPED WITH PRESSURE CONNECTORS FOR OUTGOING CIRCUIT NEUTRAL CABLES. BUS EXTENSIONS FOR BUSWAY FEEDER NEUTRAL BUS ARE BRACED. P. FUTURE DEVICES: EQUIP COMPARTMENTS WITH MOUNTING BRACKETS, SUPPORTS, BUS CONNECTIONS, AND APPURTENANCES AT

MAIN PHASE BUSES, NEUTRAL BUSES, AND EQUIPMENT GROUND BUSES: UNIFORM CAPACITY FOR ENTIRE LENGTH OF SWITCHBOARD'S MAIN AND DISTRIBUTION SECTIONS. PROVIDE FOR FUTURE EXTENSIONS FROM BOTH ENDS.

3. GROUND BUS: 1/4-BY-2-INCH- (6-BY-50-MM-) MINIMUM-SIZE, HARD-DRAWN COPPER OF 98 PERCENT CONDUCTIVITY, EQUIPPED WITH PRESSURE CONNECTORS FOR FEEDER AND BRANCH-CIRCUIT GROUND CONDUCTORS. FOR BUSWAY FEEDERS, EXTEND INSULATED EQUIPMENT GROUNDING CABLE TO BUSWAY GROUND CONNECTION AND SUPPORT CABLE AT INTERVALS IN

1. PHASE- AND NEUTRAL-BUS MATERIAL: HARD-DRAWN COPPER OF 98 PERCENT CONDUCTIVITY WITH FEEDER CIRCUIT-BREAKER LINE CONNECTIONS. IF BUS IS COPPER, USE COPPER FOR FEEDER CIRCUIT-BREAKER LINE CONNECTIONS. 2. LOAD TERMINALS: INSULATED, RIGIDLY BRACED, SILVER-PLATED, COPPER RUNBACK BUS EXTENSIONS EQUIPPED WITH PRESSURE CONNECTORS FOR OUTGOING CIRCUIT CONDUCTORS. PROVIDE LOAD TERMINALS FOR FUTURE CIRCUIT-BREAKER POSITIONS AT

H. BUS TRANSITION AND INCOMING PULL SECTIONS: MATCHED AND ALIGNED WITH BASIC SWITCHBOARD. BUSES AND CONNECTIONS: THREE PHASE, FOUR WIRE, UNLESS OTHERWISE INDICATED.

F. BARRIERS: BETWEEN ADJACENT SWITCHBOARD SECTIONS. G. UTILITY METERING COMPARTMENT: FABRICATED COMPARTMENT AND SECTION COMPLYING WITH UTILITY COMPANY'S REQUIREMENTS. IF SEPARATE VERTICAL SECTION IS REQUIRED FOR UTILITY METERING, MATCH AND ALIGN WITH BASIC

LABEL EACH SWITCHBOARD COMPARTMENT WITH ENGRAVED METAL OR LAMINATED-PLASTIC NAMEPLATE WITH WHITE LETTERS ON BLACK BACKGROUND, MOUNTED WITH CORROSION-RESISTANT SCREWS. D. ENCLOSURE FINISH FOR OUTDOOR UNITS: NEMA 3R WEATHERPROOF ENCLOSURE WITH FACTORY-APPLIED FINISH IN MANUFACTURER'S STANDARD COLOR, UNDERSURFACES TREATED WITH CORROSION-RESISTANT UNDERCOATING. ENCLOSURE FINISH FOR INDOOR UNITS: FACTORY-APPLIED FINISH IN MANUFACTURER'S STANDARD GRAY FINISH OVER A

A. FURNISH AND INSTALL ALL SWITCHBOARDS AS HEREINAFTER SPECIFIED AND AS SHOWN ON THE DRAWINGS. SWITCHBOARDS SHALL BE OF THE DEAD FRONT SAFETY TYPE EQUIPPED WITH THE THERMAL MAGNETIC 40°C CIRCUIT BREAKERS. CIRCUIT BREAKERS SHALL BE RATED MINIMUM 30,000 AMPS RMS SYMMETRICAL INTERRUPTING CAPACITY AND SHALL BE THE NUMBER OF POLES AND CURRENT CAPACITY AS INDICATED ON THE SINGLE LINE DIAGRAM. SWITCHBOARDS SHALL BE SQUARE-D

> B. THE CONTRACTOR SHALL REPLACE ALL DAMAGED OR DEFECTIVE EQUIPMENT OR WORK. C. ALL CIRCUITS SHALL BE TESTED FOR CONTINUITY AND CIRCUIT INTEGRITY BY THE CONTRACTOR. ADJUSTMENTS SHALL BE MADE FOR CIRCUITS NOT COMPLYING WITH TESTING CRITERIA.

THE CONTRACTOR SHALL FURNISH ALL INSTRUMENTS AND PERFORM ANY ADDITIONAL TESTS REQUIRED BY THE AUTHORITY

WORK RESULTING FROM THOSE TESTS. THE COST OF THE FOREGOING ITEMS SHALL BE PAID BY THE CONTRACTOR.

HAVING JURISDICTION. CONTRACTOR SHALL ALSO CORRECT ALL FAILURES AND REPLACE ANY DAMAGED PORTIONS OF THE

THE CONTRACTOR SHALL FURNISH THE OWNER CERTIFICATES OF INSPECTION AND APPROVAL BY THE ELECTRICAL INSPECTION

EXECUTION OF THE WORK UNDER THIS CONTRACT.

A. HANDLE WIRE AND CABLE SO AS TO AVOID DAMAGE TO CONDUCTORS AND TAKE EVERY PRECAUTION TO AVOID SHARP BENDING

B. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND REPLACE AT HIS OWN EXPENSE ALL WIRE AND CABLE DAMAGED DUE TO

OR SCORING OF THE CABLE. CABLE SHALL NOT BE LAID NOR DRAGGED UPON THE GROUND.

- A. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS FOR THE

- 3.12 TESTING AND INSPECTIONS

EQUIPMENT IN SEPARATE ENCLOSURES.

B. NAMEPLATES SHALL BE FABRICATED AS FOLLOWS:

3.10 CLEANING OF EQUIPMENT, MATERIAL, AND PREMISES

PREMISES CLEAN OF ALL DIRT AND DEBRIS.

3.11 HANDLING OF WIRE AND CABLE

AND DELIVERED IN A PERFECT, UNBLEMISHED CONDITION.

AUTHORITY ON ALL WORK COMPETED AS REQUIRED.

IMPROPER HANDLING, AND SHALL PAY FOR THE NEW WIRE OR CABLE.

4.

3.

LOCATION.

FOR THAT MACHINE.

2. CAPITAL LETTERS SHALL BE USED.

BACKGROUND.

3.09 PROTECTION

3. SPECIAL ELECTRICAL SYSTEMS SHALL BE PROPERLY IDENTIFIED AT JUNCTION AND PULL BOXES

NAMEPLATES SHALL BE FASTENED WITH CADMIUM-PLATED SELF-TAPPING NO. 6 SCREWS 1/4" LONG

4. THE MINIMUM SIZE OF ALL NAME PLATES AND LETTERING SHALL BE 3/4" HIGH BY 2" LONG WITH 1/4" LETTERS.

ALL BRANCH CIRCUIT PANEL BOARDS SHALL HAVE IDENTIFYING ENGRAVED PLASTIC NAMEPLATES. ALSO, PROVIDE A TYPED

DIRECTORY CARD FOR EACH BRANCH CIRCUIT PANELBOARD. THE CARD IS TO BE PLACED ON THE INTERIOR SIDE OF THE

IN GENERAL, EQUIPMENT SHALL BE IDENTIFIED AS DESIGNATED ON THE ELECTRICAL DRAWINGS. NAMEPLATES FOR PANELBOARDS

AND SWITCHBOARDS SHALL INCLUDE THE PANEL DESIGNATION, VOLTAGE AND PHASE OF THE SUPPLY. THE NAME OF THE

MACHINE SHALL BE THE SAME AS THE NAME USED ON ALL MOTOR STARTERS, DISCONNECTS, AND P.B STATION NAMEPLATES

NAMEPLATE MATERIALS SHALL CONSIST OF 3-PLY, 1/16" LAMINATED PLASTIC WITH WHITE CORE FOR LETTERING AND BLACK

A. USE ALL MEANS NECESSARY TO PROTECT THE WORK AND MATERIALS FROM LOSS DURING AND AFTER INSTALLATION, AND

DEFECTIVE WORK, MATERIAL, AND EQUIPMENT AT NO EXPENSE TO THE OWNER BEFORE REQUESTING FINAL ACCEPTANCE.

A. SITE SHALL BE LEFT BROOM CLEAN AFTER COMPLETION OF WORK EACH DAY. UPON COMPLETION OF THE WORK, LEAVE THE

ALL EQUIPMENT AND MATERIAL CONNECTED WITH THIS PROJECT SHALL BE INSTALLED COMPLETE, THOROUGHLY CLEANED, AND

ALL RESIDUE REMOVED FROM INSIDE SURFACES. EXTERIOR SURFACES OF ALL MATERIAL AND EQUIPMENT SHALL BE CLEANED

PROVIDE ADEQUATE AND PROPER STORAGE FACILITIES DURING THE PROGRESS OF THE WORK. PROVIDE FOR THE SAFETY AND

GOOD CONDITION OF ALL WORK UNTIL FINAL ACCEPTANCE OF THE WORK BY THE OWNER. REPLACE ALL DAMAGE OR

PANELBOARD DOOR BEHIND A CLEAR PLASTIC SHIELD. THE CARD SHALL IDENTIFY EACH CIRCUIT BY NUMBER, LOAD, AND

ELECTRICAL **SPECIFICATIONS** 



Revision Description

