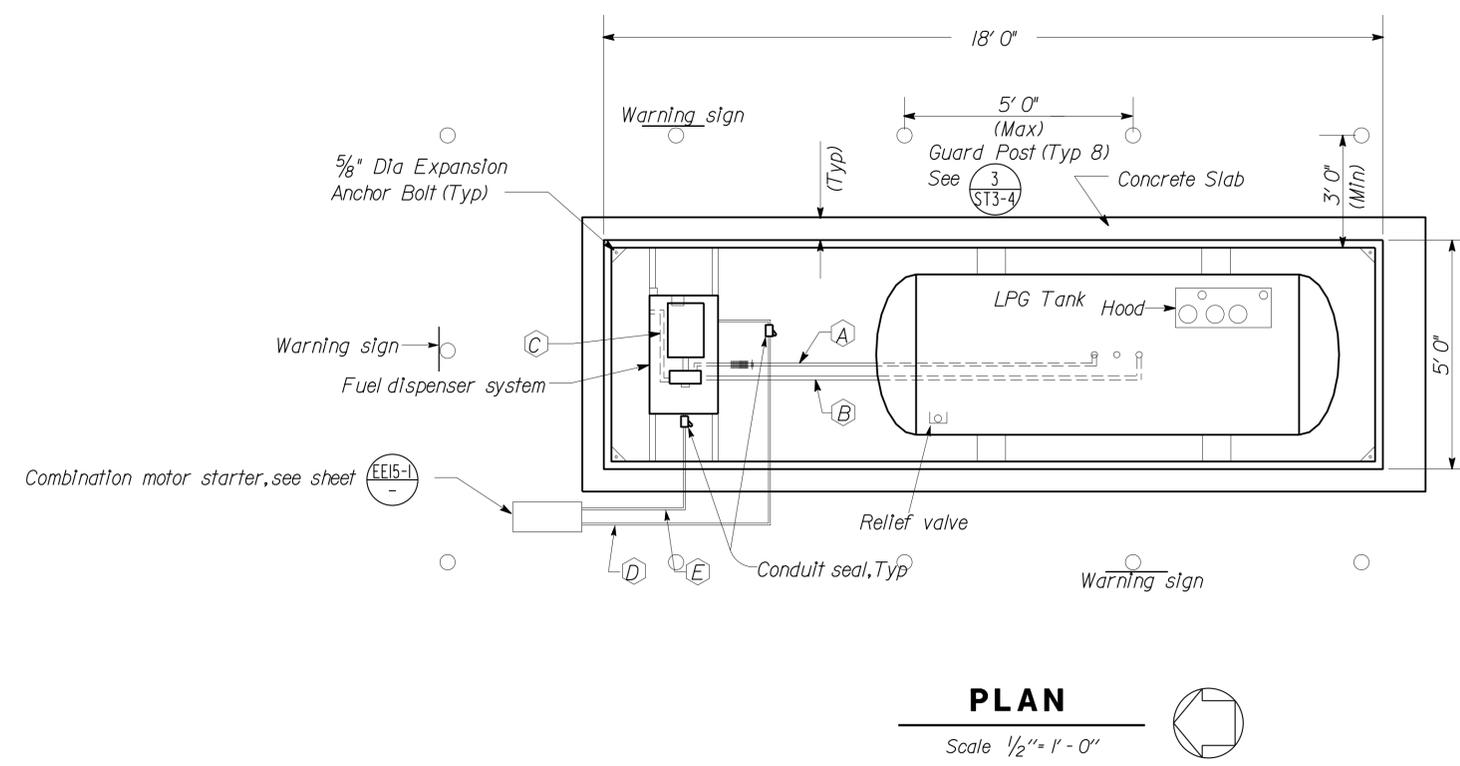


DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		301	354

APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable requirements. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>[Signature]</i> FRANCIS SOLICH Approval date: 11-29-2013 CSFM No. 01-13-11-0025	12-03-13 REGISTERED ENGINEER-MECHANICAL Jack Wheeler No. M21648 Exp. 6-30-15 MECH STATE OF CALIFORNIA
---	---

01-06-14
PLANS APPROVAL DATE

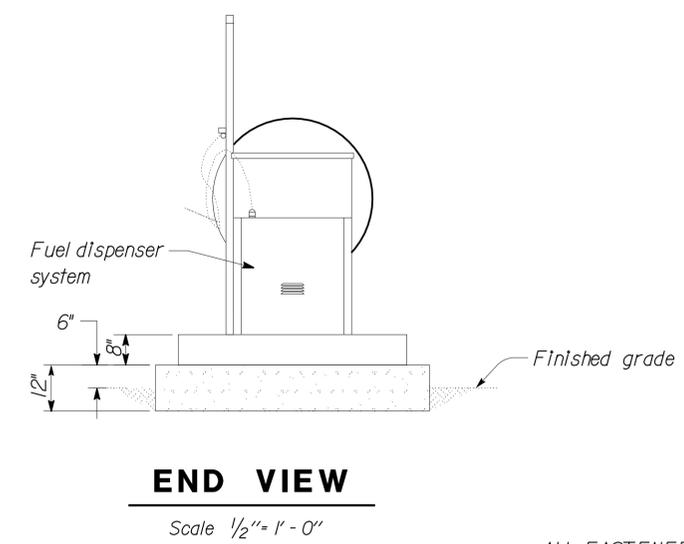
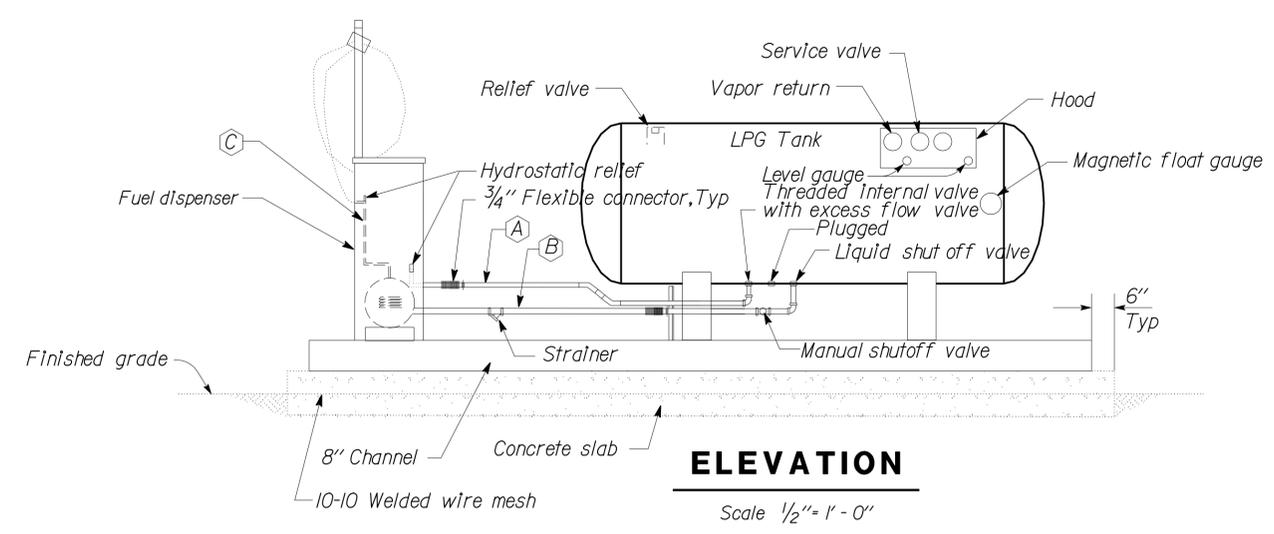
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



- Notes:
- Lpg tank shall be 500 Gallons.
 - LPG system frame shall be bolted to concrete with anchor bolts as recommended by the system manufacturer.
 - Install LPG Dispensing System per NFPA 58 code requirements.

LINE SIZE & USE

- (A) 3/4" Bypass return
- (B) 1/4" Liquid supply
- (C) 1" Liquid supply
- (D) 1/2" Conduit 3-#12, 1#12G to pump motor
- (E) 1/2" Conduit 2-#12, 1#12G to ON/OFF switch



500 GALLON LIQUIFIED PETROLEUM GAS (LPG) DISPENSING SYSTEM

ALL FASTENERS TO CONCRETE SHALL BE EXPANSION ANCHORAGE DEVICES WITH GALVANIZED THREADED STUD, HEX NUT, AND FLAT WASHER. SIZE OF STUDS SHOWN.

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN	BY Severiano Gutierrez	CHECKED Mark Hedglin	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	EL CENTRO MAINTENANCE FACILITY MECHANICAL DETAILS - 9	SHEET
DETAILS	BY Severiano Gutierrez	CHECKED Mark Hedglin		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	58M5708		M13-9
QUANTITIES	BY Severiano Gutierrez	CHECKED Mark Hedglin		PROJECT NUMBER & PHASE	POST MILE		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			UNIT 3580 PROJECT NUMBER & PHASE 11000000351	BRIDGE NO. 58M5708 POST MILE	REVISION DATES (PRELIMINARY STAGE ONLY) 06-02-10 12-01-10 02-27-11 08-18-11 12-03-13	SHEET OF	

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		303	354

Tommy F. Lee		12-4-13
REGISTERED ELECTRICAL ENGINEER	DATE	

01-06-14	
PLANS APPROVAL DATE	

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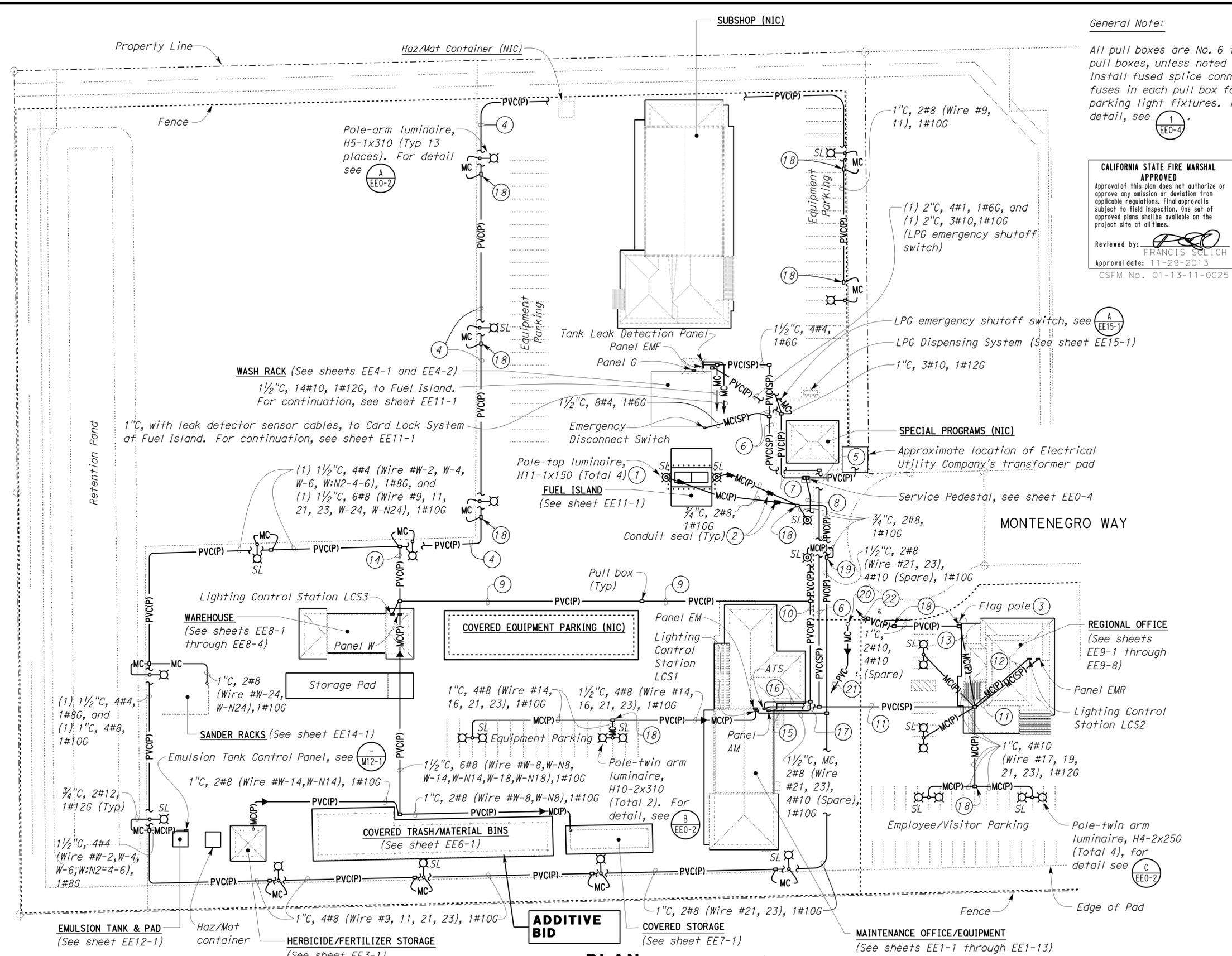
General Note:

All pull boxes are No. 6 traffic-rated pull boxes, unless noted otherwise. Install fused splice connector with fuses in each pull box for area parking light fixtures. For pull box detail, see (1) EEO-4.

CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: FRANCIS SOLICH
 Approval date: 11-29-2013
 CSFM No. 01-13-11-0025

Notes:

- (1) For detail, see (D) EEO-2.
- (2) Install conduit seal inside pull box.
- (3) For details, see (1) AO-4.
- (4) 1"C, 4#8 (Wire #9, 11, 21, 23), 1#10G.
- (5) (5) 4"C, with pull rope. Installation shall meet the requirements of the Electrical Utility Company.
- (6) (1) 1/2"C, 4#4, 1#6G (From Panel EM to Panel EMF, through emergency disconnect) and (1) 2"C, MT.
- (7) (1) 2"C, 4#1, 1#6G (From Service Pedestal to Panel G) and (1) 4"C, MT.
- (8) (1) 4"C, 4#600 MCM, 1#2G (From Service Pedestal to ATS), (1) 4"C, 4#350 MCM, 1#2G (From Service Pedestal to Panel AM), and (1) 2"C, 4#1/0, 1#6G (From Service Pedestal to Panel W).
- (9) 2"C, 4#1/0, 1#6G, from Service Pedestal to Panel W.
- (10) (1) 4"C, 4#600 MCM, 1#2G, and (1) 4"C, 4#350 MCM, 1#2G.
- (11) 3"C, 4#4/0, 1#6G (From Panel EM to Panel EMR).
- (12) 1/2"C, 8#10, 4#10 (Spare), 1#12G.
- (13) 1"C, 4#10 (Wire #15, EMM-N15, EMM-18, EMM-N18), 4#10 (Spare), 1#12G.
- (14) 2"C, 4#8 (Wire #9, 11, W-24, W-N24), 1#10G, 4#4 (From Panel W to Emulsion Tank), 1#8G.
- (15) (1) 3"C, MC, 4#4/0, 1#6G, (1) 1/2"C, MC, 4#4, 1#6G, and (1) 2"C, MC, MT.
- (16) 4"C, MC, 4#600 MCM, 1#2G.
- (17) 4"C, MC, 4#350 MCM, 1#2G.
- (18) No. 5 traffic-rated pull box. For detail, see (1) EEO-5.
- (19) Coil, 4#10 spare wires, 3' in length, inside pull box. Tape the end of spare wires.
- (20) Fire line backflow preventor tamper switch. For location, see sheet M0-1.
- (21) 3/4"C, with wires and/or cable, as recommended by the No. 1 Fire Alarm Panel manufacturer, to No. 1 Fire Alarm Panel. For continuation, see sheet EE1-11.
- (22) 3/4"C, 2#10 (Wire #EMM-18, EMM-N18), to Irrigation Controller. For location, see sheet IP-1.



PLAN

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

SCALE 1" = 40'-0"

DESIGN SUPERVISOR: *Paul Schreff*
 DESIGN ENGINEER: *Mark Chapp*

DESIGN	BY Baldev S. Dehal	CHECKED Tech Ngov
DETAILS	BY Kathl Andreasen	CHECKED Baldev S. Dehal
QUANTITIES	BY Baldev S. Dehal	CHECKED Tech Ngov

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. 58M5708
 POST MILE

EL CENTRO MAINTENANCE FACILITY
 POWER SITE PLAN

SHEET EEO-1

TAEMWW Imperial Rev. 7/10

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT PROJECT NUMBER & PHASE 3597 11000000351

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
	3/9/09 2/25/13 8/8/13 9/7/13 12/4/13 6/28/10 7/7/10 10/13/10 12/3/10	

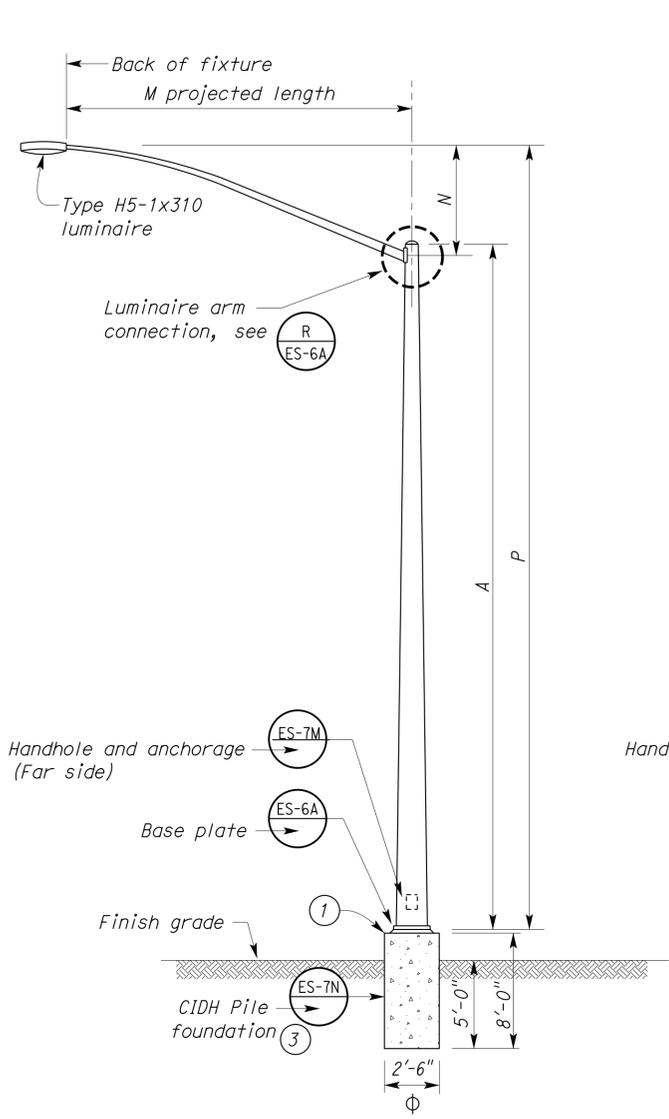
CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *Francis Sulich*
 Approval date: 11-29-2013
 CSFM No. 01-13-11-0025

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		304	354

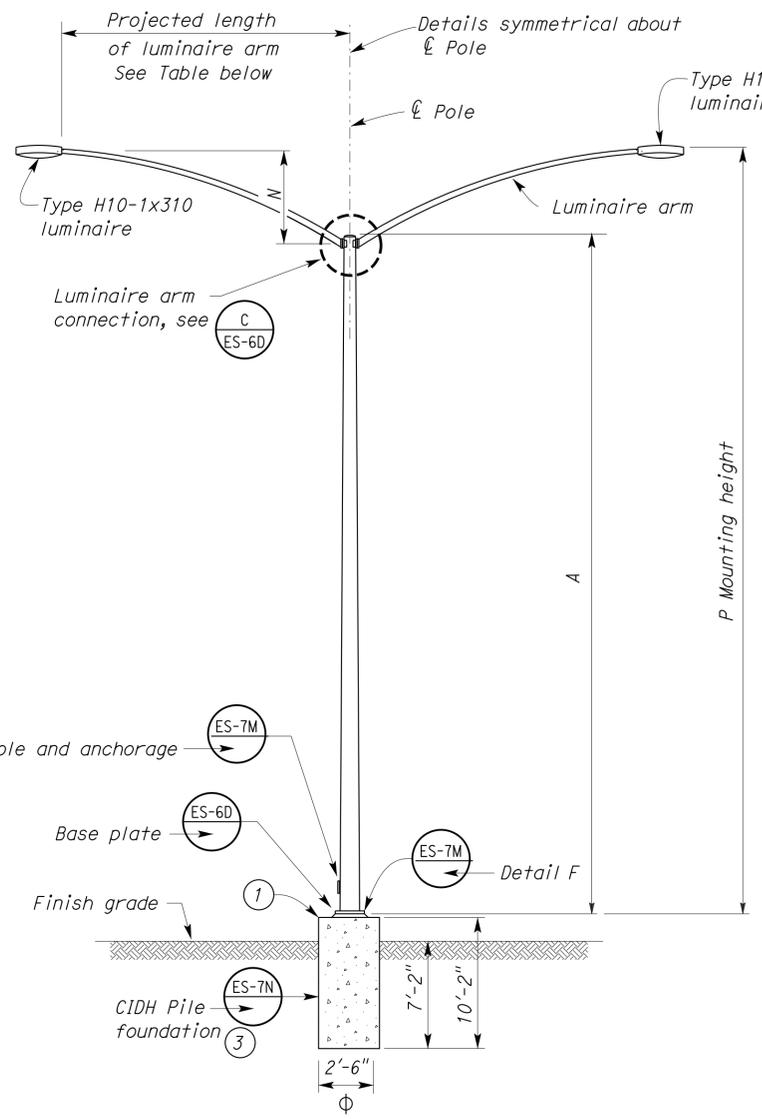
<i>Thomas Reich</i>		12-4-13
REGISTERED CIVIL ENGINEER		DATE

01-06-14	
PLANS APPROVAL DATE	

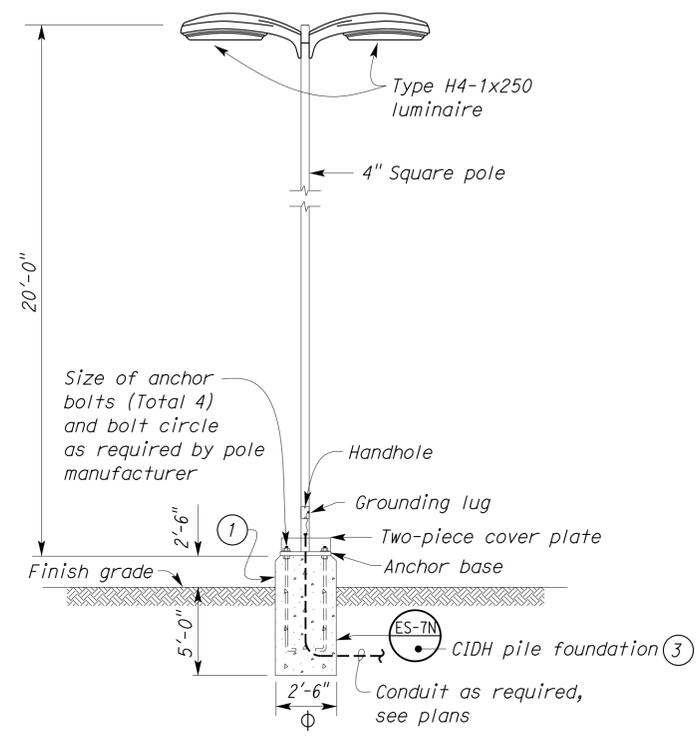
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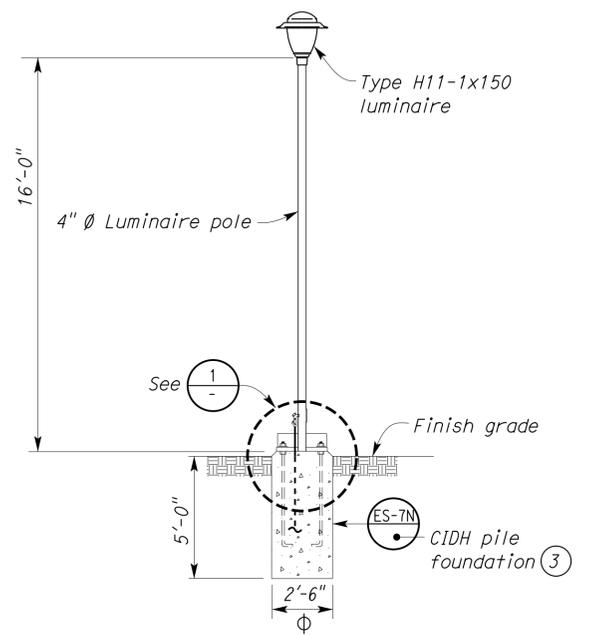
ELEVATION A
TYPE 15 STANDARD
 NO SCALE
 (Lighting Fixture Type H5)



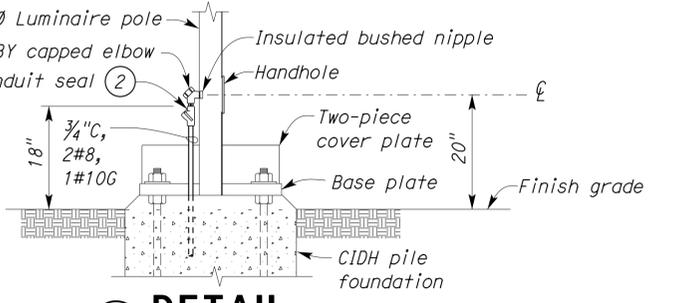
ELEVATION B
TYPE 15D STANDARD
 NO SCALE
 (Lighting Fixture Type H10)



ELEVATION C
POLE-TWIN ARM LUMINAIRE AND LIGHTING FIXTURE FOUNDATION DETAILS
 NO SCALE
 (Lighting Fixture Type H4)



ELEVATION D
POLE-TOP LUMINAIRE DETAIL
 NO SCALE
 (Lighting Fixture Type H11) (2)



1
DETAIL
 NO SCALE (4)

POLE TYPE	POLE DATA				BASE PLATE DATA					LUMINAIRE ARM DATA				
	A Height	Min OD		Wall Thickness	C	DI Bolt Circle	Thick-ness	Anchor Bolts		M Projected Length	N Rise	Min O.D. At Pole	Nominal Thickness	P Mounting Height
		Base	Top					Size	Bolt Circle					
15	30'-0"	8"	3 7/8"	0.1196"	1'-0"	1'-0"	1"	1" ϕ x 3'-0" x 4"	1'-0"	15'-0"	4'-9" \pm	4 1/4"	0.1196"	34'-3" \pm
15D	30'-0"	8"	3 7/8"	0.1793"	1'-0"	1'-0"	1"	1 1/4" ϕ x 3'-6" x 6"	1'-0"	12'-0"	4'-3" \pm	3 7/8"	0.1196"	33'-9" \pm

DESIGN	BY Baldev S. Dehal	CHECKED Tech Ngov
DETAILS	BY Kathl Andreasen	CHECKED Baldev S. Dehal
QUANTITIES	BY Baldev S. Dehal	CHECKED Tech Ngov

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. 58M5708
 POST MILE

EL CENTRO MAINTENANCE FACILITY
 AREA LIGHTING DETAILS

SHEET EE0-2

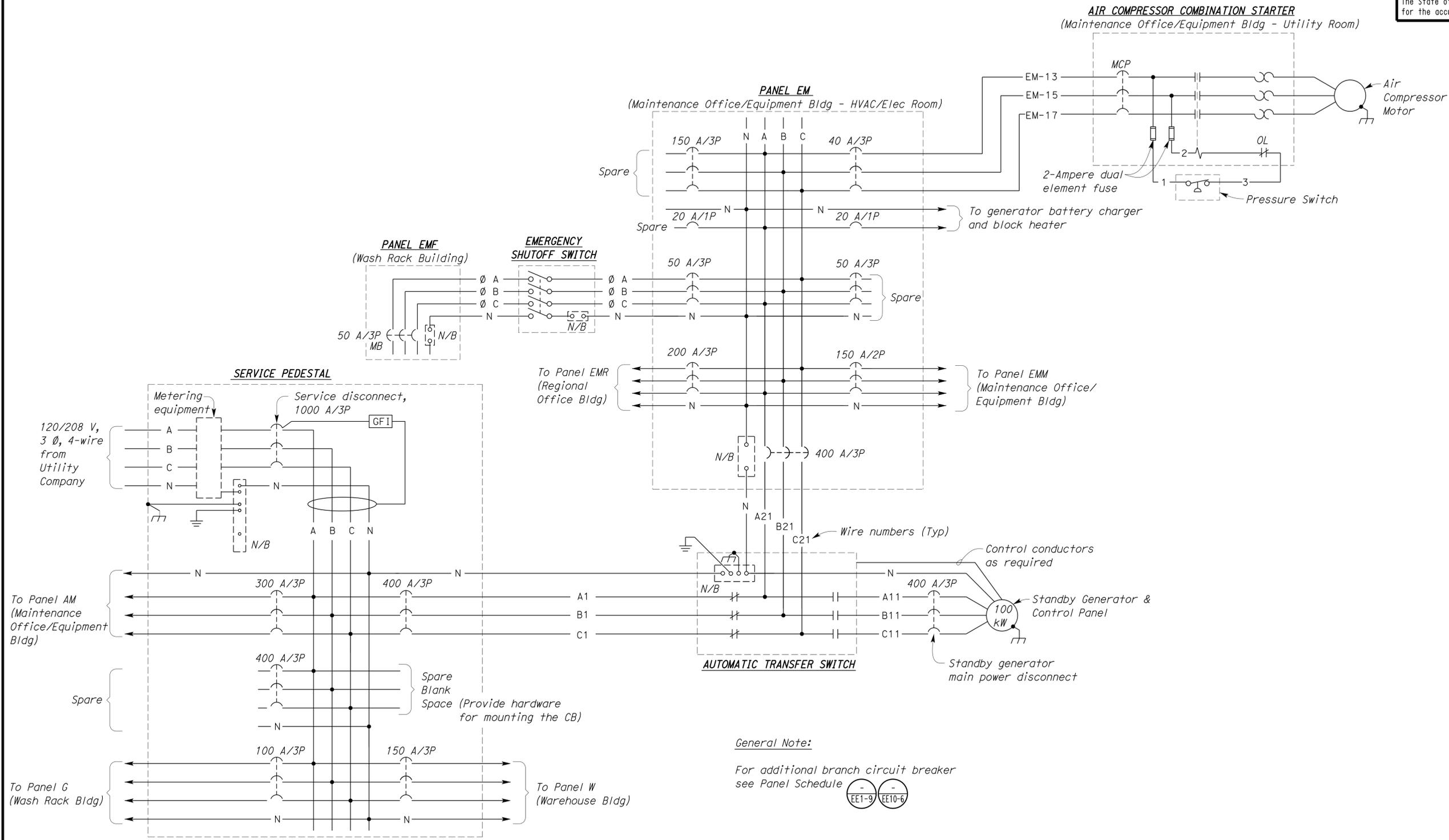
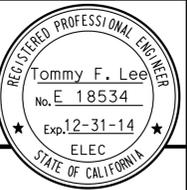
CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: FRANCIS SOLICH
 Approval date: 11-29-2013
 CSFM No. 01-13-11-0025

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		305	354

Tommy F. Lee	12-4-13
REGISTERED ELECTRICAL ENGINEER	DATE

01-06-14
PLANS APPROVAL DATE

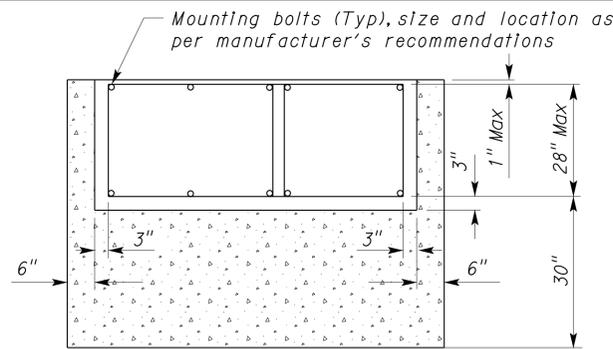
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General Note:
 For additional branch circuit breaker see Panel Schedule

DESIGN BY Baldev S. Dehal CHECKED Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58M5708	EL CENTRO MAINTENANCE FACILITY	SHEET EE0-3
			POST MILE		
			POWER AND CONTROL SCHEMATIC		
DETAILS BY Kathl Andreasen CHECKED Baldev S. Dehal	UNIT PROJECT NUMBER & PHASE 3597 11000000351	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	
QUANTITIES BY Baldev S. Dehal CHECKED Tech Ngov	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	EA 076701	1/18/10 2/18/10 4/5/10 6/28/10 12/3/10 2/25/13 8/8/13 9/13/13 12/4/13	OF	

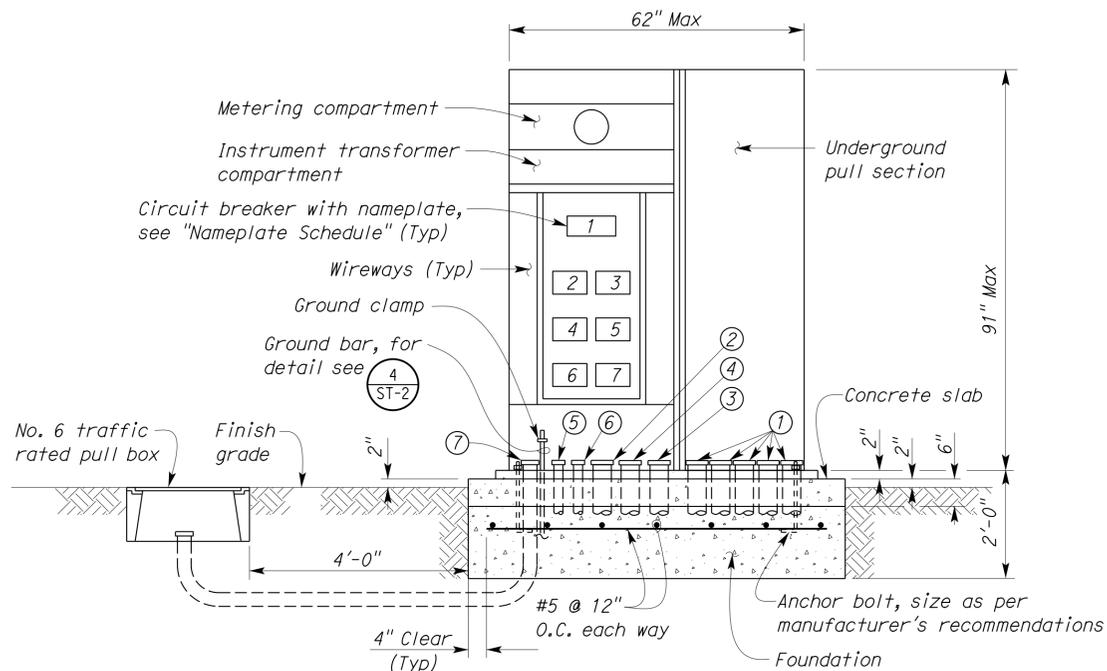
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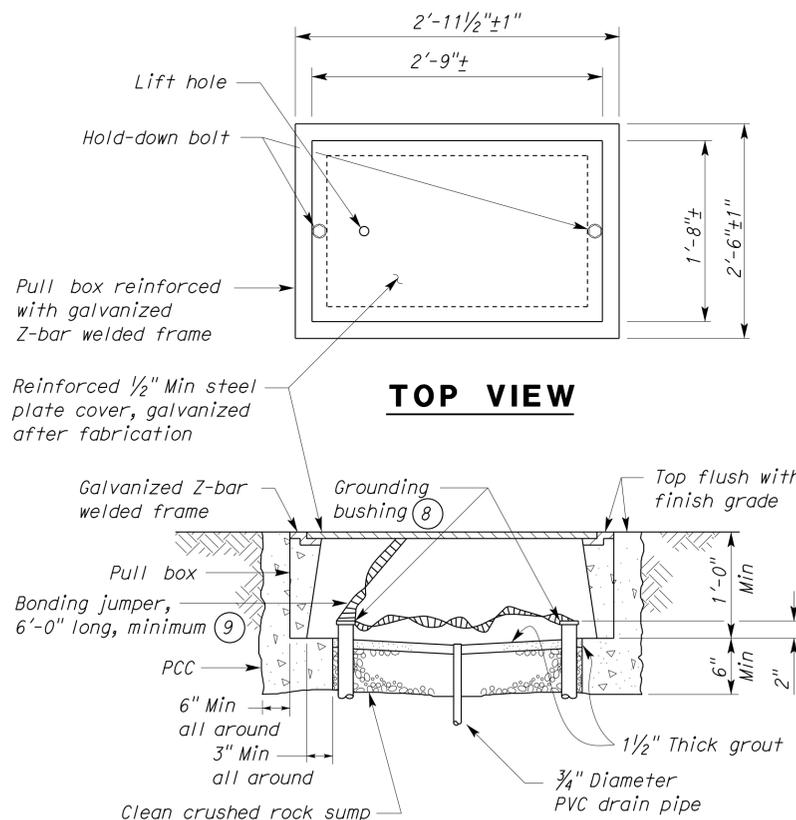
PLAN

NAMEPLATE SCHEDULE		
ITEM NO.	INSCRIPTION	LETTER HEIGHT
1	SERVICE DISCONNECT	1/4"
2	PANEL AM (MAINT. OFFICE/EQUIP.)	1/4"
3	AUTOMATIC TRANSFER SWITCH	1/4"
4	PANEL G (WASHER/SWEEPER RM)	1/4"
5	PANEL W (WAREHOUSE)	1/4"
6	BLANK	
7	BLANK	

Note: Main Switchboard elevation shown without weatherproof enclosure.



ELEVATION
A SERVICE PEDESTAL
NO SCALE



SECTION THRU No. 6
1 TRAFFIC RATED PULL BOX
NO SCALE

CALIFORNIA STATE FIRE MARSHAL APPROVED
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by: *Francis Solich*
FRANCIS SOLICH
Approval date: 11-29-2013
CSFM No. 01-13-11-0025

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		306	354

Tommy F. Lee
REGISTERED ELECTRICAL ENGINEER
12-4-13 DATE

Tommy F. Lee
No. E 18534
Exp. 12-31-14
ELEC
STATE OF CALIFORNIA

01-06-14
PLANS APPROVAL DATE

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- Notes:
- (5) 4"C, with pull rope, to transformer pad.
 - (2) 4"C, MT.
 - (3) 4"C, 4 #600 MCM, 1#2G, to automatic transfer switch (Maintenance Office/Equipment Building).
 - (4) 4"C, 4#350 MCM, 1#2G, to Panel AM (Maintenance Office/Equipment Building).
 - (5) 2"C, 4#1, 1#6G, to Panel G (Wash Rack Building).
 - (6) 2"C, 4#1/0, 1#6G, to Panel W (Warehouse Building).
 - (7) 3"C, MT, with pull rope, to pull box.
 - (8) Bonding is not required for PVC conduit. Bond grounding conductor to steel plate cover.
 - (9) Bonding jumper is not required for telephone pull boxes.

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		307	354

Tommy F. Lee		12-4-13
REGISTERED ELECTRICAL ENGINEER	DATE	

REGISTERED PROFESSIONAL ENGINEER
 Tommy F. Lee
 No. E 18534
 Exp. 12-31-14
 ELEC
 STATE OF CALIFORNIA

01-06-14
PLANS APPROVAL DATE

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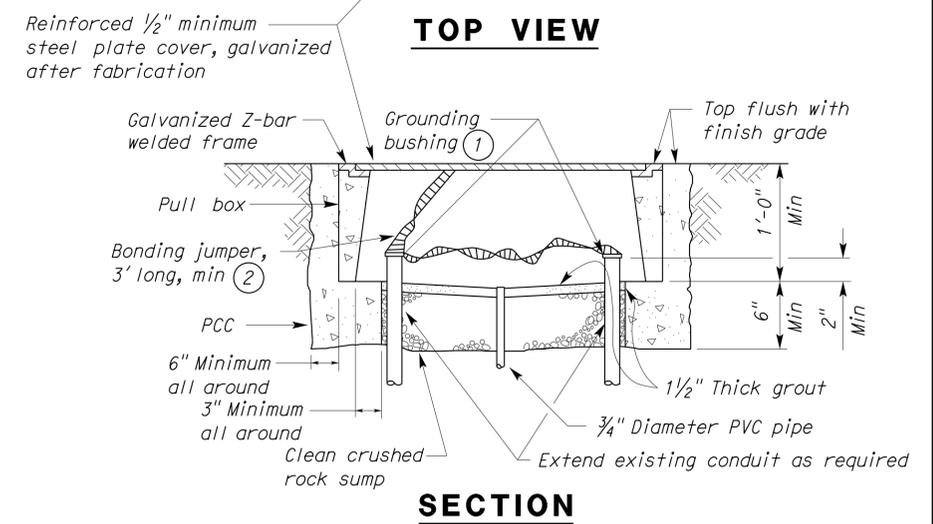
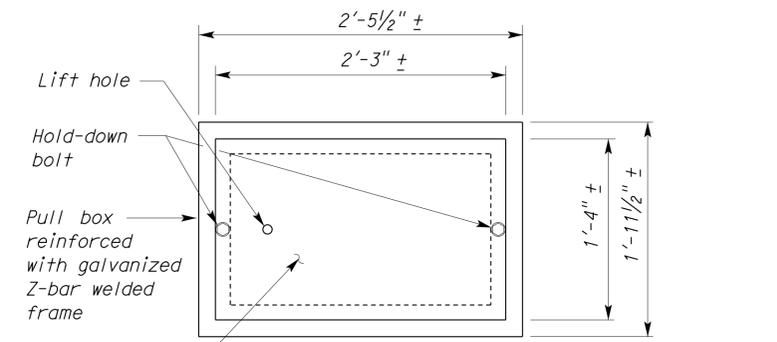
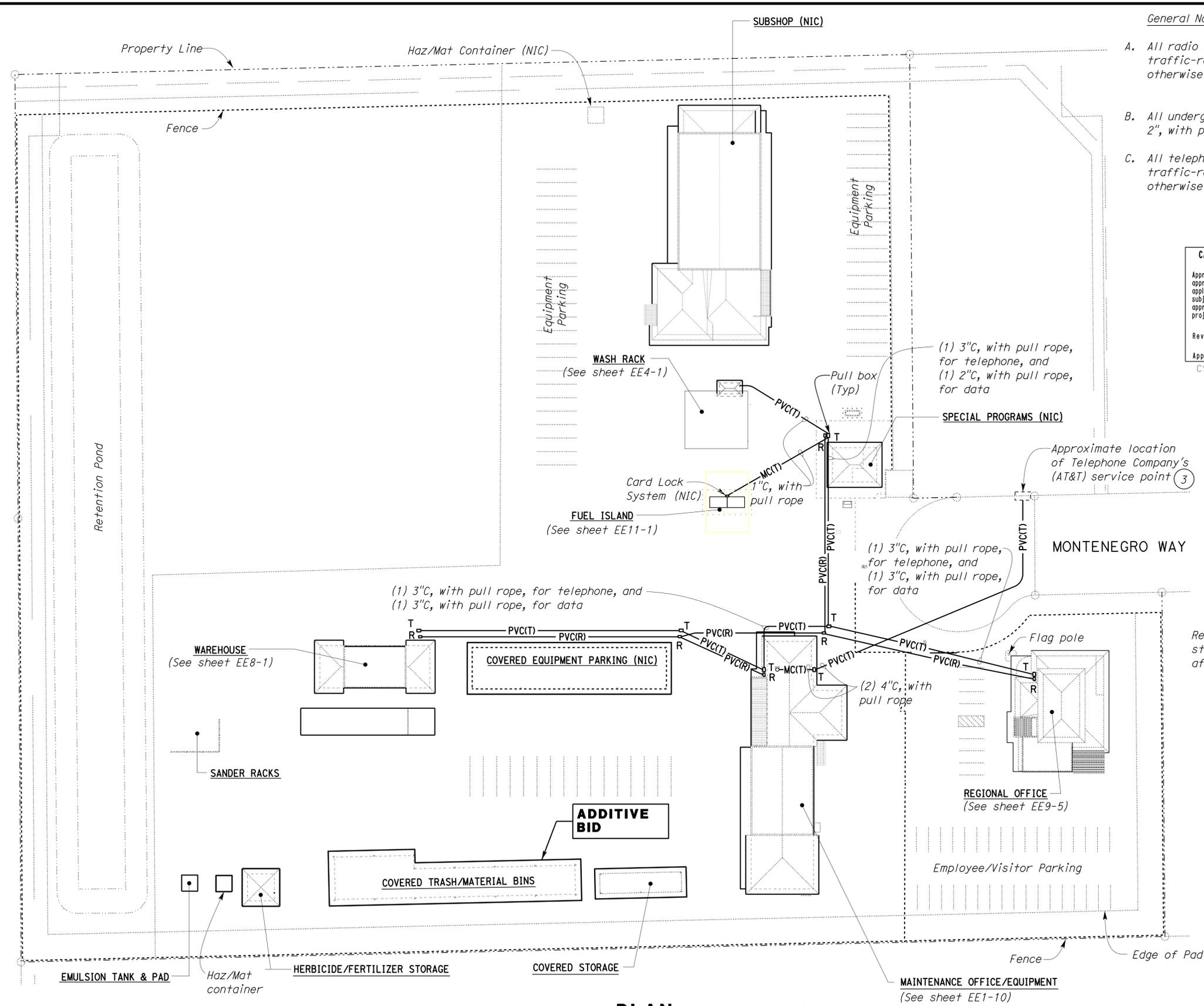
General Notes:

- A. All radio pull boxes shall be No. 5 traffic-rated pull boxes, unless noted otherwise. For detail, see $\frac{1}{EEO-4}$.
- B. All underground conduits for radio shall be 2", with pull rope, unless noted otherwise.
- C. All telephone pull boxes shall be No. 6 traffic-rated pull boxes, unless noted otherwise. For detail, see $\frac{1}{EEO-4}$.

CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: FRANCIS SOLICH
 Approval date: 11-29-2013
 CSFM No. 01-13-11-0025

Notes:

- 1 Bonding is not required for PVC conduit. Bond grounding conductor to steel plate cover.
- 2 Bonding jumper is not required for telephone and radio pull boxes.
- 3 Stub up conduits 2'-0" above finish grade.



1 No. 5 TRAFFIC-RATED PULL BOX
NO SCALE

PLAN

SCALE 1" = 40'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY Baldev S. Dehal	CHECKED Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	EL CENTRO MAINTENANCE FACILITY	SHEET EEO-5						
	DETAILS BY Kathl Andreasen	CHECKED Baldev S. Dehal			58M5708								
	QUANTITIES BY Baldev S. Dehal	CHECKED Tech Ngov			POST MILE								
UNIT PROJECT NUMBER & PHASE 3597 1100000351				DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)								
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3				EA 076701	3/9/09	8/7/13	9/7/13	12/4/13	4/6/10	6/2/10	10/7/10	12/3/10	2/25/13

CERTIFICATE OF COMPLIANCE (Page 3 of 4) LTG-1C

Project Name: EL CENTRO MAINTENANCE FACILITY Date: 04-26-2010

INDOOR LIGHTING SCHEDULE and FIELD ENERGY CHECKLIST

Fill in controls for all spaces: a) area controls, b) multi-level controls, c) manual daylighting controls for daylight areas > 250 sq ft, automatic daylighting controls for daylight areas > 2,500 sq ft, d) shut-off controls, e) display lighting controls, f) tailored lighting controls-general lighting controlled separately from display, ornamental and display case lighting and g) demand responsive automatic controls for retail stores > 50,000 sq ft, in accordance with Section 131.

MANDATORY LIGHTING CONTROLS - FIELD INSPECTION ENERGY CHECKLIST

Type/Description	Number of Units	Location in Building	Special Features	Field Inspector	
				Pass	Fail
LCS1, with S ₃ ^f and S ₃ ^e	1	Special Crew Shop (Room 129) 877 sq ft	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OC, ceiling mounted	1	Special Crew Storage (Room 128) 325 sq ft	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OC, ceiling mounted	1	Mens Locker (Room 119) 325 sq ft	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LCS1, with S ₃ ^a , S ₃ ^b , S ₃ ^c , and S ₃ ^d	1	Service Storage Bays (Rooms 124/125) 2925 sq ft	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SPECIAL FEATURES INSPECTION CHECKLIST (See Page 2 of 4 of LTG-1C)

The local enforcement agency shall pay special attention to the items specified in the checklist. These items require special written justification and documentation, and special verification. The local enforcement agency determines the adequacy of the justification and may reject a building or design that otherwise complies based on the adequacy of the special justification and documentation submitted.

Field Inspectors' Notes or Discrepancies:

2008 Nonresidential Compliance Forms

August 2009

CERTIFICATE OF COMPLIANCE (Page 4 of 4) LTG-1C

Project Name: EL CENTRO MAINTENANCE FACILITY Date: 04-26-2010

Conditioned and Unconditioned space Lighting must not be combined for compliance

Indoor Lighting Power for Conditioned Spaces		Indoor Lighting Power for Unconditioned Spaces	
Installed Lighting (from Conditioned LTG-1C Page 2)	Watts	Installed Lighting (from Unconditioned LTG-1C Page 2)	Watts
Lighting Control Credit Conditioned Spaces (from LTG-2C)	-	Lighting Control Credit Unconditioned Spaces (from LTG-2C)	-
Adjusted Installed Lighting Power	= 6321	Adjusted Installed Lighting Power	=
Complies if Installed ≤ Allowed		Complies if Installed ≤ Allowed	
Allowed Lighting Power Conditioned Spaces (from LTG-3C)	6333.9	Allowed Lighting Power Unconditioned Spaces (from LTG-3C)	

Required Acceptance Tests

Designer:

This form is to be used by the designer and attached to the plans. Listed below is the acceptance test for the lighting system, LTG-2A. The designer is required to check the acceptance tests and list all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. If all the lighting system or control of a certain type requires a test, list the different lighting and the number of systems. The NA7 Section in the Appendix of the Nonresidential Reference Appendices Manual describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately. Forms can be grouped by type of Luminaire controlled.

Enforcement Agency:

System Acceptance. Before Occupancy Permit is granted for a newly constructed building or space or when ever new lighting system with controls is installed in the building or space shall be certified as meeting the Acceptance Requirements. The LTG-2A form is not considered a complete form and is not to be accepted by the enforcement agency unless the boxes are checked and/or filled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement agency that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of S 10-103 (b) of Title 24 Part 6. The field inspector must receive the properly filled out and signed forms before the building can receive final occupancy. A copy of the LTG-2A for each different lighting luminaire control(s) must be provided to the owner of the building for their records.

Luminaires Controlled			LTG-2A
Equipment Requiring Testing	Description	Number of Like Controls	Controls and Sensors and Automatic Daylighting Controls Acceptance
	4-Zone Lighting Controller	1	Service Bay (Room 124) <input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>

2008 Nonresidential Compliance Forms

August 2009

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		309	354

Tommy F. Lee
REGISTERED ELECTRICAL ENGINEER
DATE 12-4-13

01-06-14
PLANS APPROVAL DATE

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CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by:
FRANCIS SOLICH
Approval date: 11-29-2013
CSFM No. 01-13-11-0025

DESIGN BY	Baldev S. Dehal	CHECKED	Tech Ngov
DETAILS BY	Kathl Andreasen	CHECKED	Baldev S. Dehal
QUANTITIES BY	Baldev S. Dehal	CHECKED	Tech Ngov

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. 58M5708
POST MILE

EL CENTRO MAINTENANCE FACILITY
TITLE 24 COMPLIANCE NO. 2

SHEET EE0-7

CERTIFICATE OF COMPLIANCE (Page 1 of 4) OLTG-1C

Project Name: EL CENTRO MAINTENANCE FACILITY	Date: 04-26-2010
Project Address: 1102 Montenegro Way El Centro, Imperial County, CA 92243	Total Hardscape Illuminated Area: 244,916 sqft

General Information
 Phase of Construction: New Construction Addition Alteration

Documentation Author's Declaration Statement
 • I Certify that this Certificate of Compliance documentation is accurate and complete.

Name: **Baldev S. (Dave) Dehal** Signature: *Baldev S. Dehal*

Company: **CALTRANS** Date: **04-26-2010**

Address: **1801 30th Street** If applicable: CEA # CEPE #
 City/State/Zip: **Sacramento, CA 95816** Phone: **916 227-8346**

Principal Lighting Designer's Declaration Statement
 • I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the lighting design.
 • This Certificate of Compliance identifies the lighting features and performance specification required for compliance with Title 24, Pages 1 and 6 of the California Code of Regulations.
 • The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Name: **Tech Ngov** Signature: *Tech Ngov*

Company: **CALTRANS** Phone: **916 227-8529**

Address: **1801 30th Street** License # **E 14521**
 City/State/Zip: **Sacramento, CA 95816** Date: **05-27-2010**

Principal Lighting Designer's Declaration
 I Certify that this Certificate of Compliance documentation is accurate and complete, and accounts for all outdoor lighting power, including building mounted, pole mounted, as well as all other outdoor lighting designed for the site, and that Additional Lighting Power Allowances for Specific Applications or Additional Lighting Power Allowances for Ordinance Requirements have not been counted more than one time for the same area, in Accordance with Section 147 of the Standards.

Outdoor Lighting Mandatory Measures
 Indicate location on building plans of Mandatory Measures Note Block: **EEO-1**

LIGHTING COMPLIANCE FORMS & WORKSHEETS (check box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Manual published by the California Energy Commission.

- OLTG-1C Certificate of Compliance. All 4 pages required on plans for all submittal.
- OLTG-2C (Page 1 of 3) Lighting Wattage Allowances for General Hardscape, Sales Frontage, or Ornamental Lighting. Optional on plans.
- OLTG-2C (Page 2 of 3) Lighting Wattage Allowances for Per Application or Per Area. Optional on plans.
- OLTG-2C (Page 3 of 3) Additional Lighting Power Allowance for Ordinance Requirements. Optional on plans.

CERTIFICATE OF COMPLIANCE (Page 2 of 4) OLTG-1C

COMPLIANCE FIXTURE/LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST
 Project Name: **EL CENTRO MAINTENANCE FACILITY** Date: **04-26-2010**
 INSTALLATION CERTIFICATE, OLTG-1-INST (Retain a copy and verify form is completed and signed.) Field Inspection
 CERTIFICATE OF ACCEPTANCE, OLTG-2A (Retain a copy and verify form is completed and signed.) Field Inspection

Luminaire Schedule				Installed Watts						
A	B	C	D	E	F		G	H	I	
Name Or Item Tag	Luminaire Description (i.e., lamp pole top shoe-box 400 watt metal halide)	Cutoff Designation	Watts per Luminaire	Special Features	How wattage was determined		Number of Luminaires	Installed Watts (D x G)	Pass	Fail
					Default from NA-8	According to S.130 (d or e)				
H1	H1-1x150	✓	188		<input checked="" type="checkbox"/>	<input type="checkbox"/>	5	940	<input type="checkbox"/>	<input type="checkbox"/>
H2	H2-1x70	✓	93		<input checked="" type="checkbox"/>	<input type="checkbox"/>	7	651	<input type="checkbox"/>	<input type="checkbox"/>
H3	H3-1x70	✓	93		<input checked="" type="checkbox"/>	<input type="checkbox"/>	11	1023	<input type="checkbox"/>	<input type="checkbox"/>
H4	H4-2x250	✓	302		<input checked="" type="checkbox"/>	<input type="checkbox"/>	8	2410	<input type="checkbox"/>	<input type="checkbox"/>
H5	H5-1x310	✓	310		<input checked="" type="checkbox"/>	<input type="checkbox"/>	13	4030	<input type="checkbox"/>	<input type="checkbox"/>
H10	H10-2x310	✓	310		<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	1240	<input type="checkbox"/>	<input type="checkbox"/>
H11	H11-1x150	✓	188		<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	752	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>

Enter total into OLTG; Page 4 of 4; Row H; Total Installed Watts: **11046**

1. Type of luminaire (i.e.: post top, wall pack, surface, shoe box); for non-incandescent luminaires, indicate nominal lamp wattage and lamp type (i.e.: fluorescent incandescent, HID); ballast type (i.e.: scanned or magnetic); number of lamps and number of ballast per luminaire. For incandescent luminaires the luminaire wattage listed in column D shall be the maximum relamping rated wattage on a permanent factory-installed label on the luminaire. NOT the wattage of the lamp (bulb) used, in accordance with Section 130 (d or e).
 2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

EXEMPT LUMINAIRES Field Inspection

Name or Symbol	Description of exempt luminaires in accordance with S 147

MANDATORY CONTROLS Field Inspection

#	Description	Location	#	Description	Location
3	LCS 3-chan. Ltg controller	EE1-5, EE8-3, and EE9-3			
	LCSs reduce 57% of light @ night after 11 pm				

SPECIAL FEATURES INSPECTION CHECKLIST (See Page 2 of 4 of OLTG-1C)

The local enforcement agency should pay special attention to the items specified in this checklist. These items require special written justification and documentation, and special verification. The local enforcement agency determines the adequacy of the justification, and may reject a building or design that otherwise complies base on the adequacy of the special justification and documentations submitted.

Field Inspector Notes or Discrepancies:

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		310	354

Tommy F. Lee 12-4-13
 REGISTERED ELECTRICAL ENGINEER DATE
 No. E 18534
 Exp. 12-31-14
 ELEC
 STATE OF CALIFORNIA

01-06-14
 PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *Francis Solich*
 FRANCIS SOLICH
 Approval date: 11-29-2013
 CSFM No. 01-13-11-0025

CERTIFICATE OF COMPLIANCE (Page 3 of 4) OLTG-1C

Project Name: **EL CENTRO MAINTENANCE FACILITY**

Date: **04-26-2010**

A. OUTDOOR LIGHTING ZONE

OUTDOOR LIGHTING ZONE: OLZ 1 OLZ 2 OLZ 3 OLZ 4

Is the Outdoor Lighting Zone: Default in accordance with S 10-114, or Amended by JHA

Complete the information below if the default Outdoor Lighting Zone has been amended by the local jurisdiction having authority (JHA):

- The site is a government designated park, recreation area, wildlife preserve, or portion thereof, and has been designated as LZ2 or LZ3, in accordance with Table 10-114-A, because the site is contained within such a zone.
- The local jurisdiction having authority has officially adopted a change to the State Default Lighting Zone and has notified the Energy Commission by providing the materials required in S 10-114(d) to the Executive Director.
- The adopted change is posted on the Energy Commission website.

B. ADDITIONAL LIGHTING POWER ALLOWANCE FOR ORDINANCE REQUIREMENTS

Are additional lighting power allowances for ordinance in Table 147-C used? Yes No

Complete the information below if the additional lighting power allowances for ordinance requirements are used:

- The local jurisdiction having authority has officially adopted specific outdoor light levels, which are express as average or minimum footcandle levels, by following a public notification review, and comment about the proposed change.
- The local jurisdiction having authority which adopted specific outdoor light levels and has notified the Commission by providing the following materials required S 10-114(f) to the Executive Director.

C. ACCEPTANCE FORMS

Required Acceptance Tests

Designer:

This form is to be used by the designer and attached to the plans. Listed below is the acceptance tests for for the Lighting system, LTG-2A. The designer is required to check the acceptance tests and list all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. If all the lighting system or control of a certain type requires a tests, list the different lighting and the number of systems. The NA7 Section in the Appendix of the Nonresidential Reference Appendices Manual describes the test. Since this form will be a part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately. Forms can be grouped by type of Luminaire controlled.

Enforcement Agency:

System Acceptance. Before Occupancy Permit is granted for a newly constructed building or space or when evr new lighting system with controls is installed in the building or space shall be certified as meeting the Acceptance Requirements. The LTG-2A form is not considered a complete form and is not to be accepted by the enforcement agency unless the boxes are checked and/or filled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement that certifies plans, specifications, installation certificates and, operating and maintenance information meet the requirements of S 10-103(b) of Title 24 Part 6. The field inspector must receive the properly filled out and signed forms before the building can receive final occupancy. A copy of the LTG-2A for each different lighting luminaire control(s) must be provided to the owner of the building for their records.

Certificate of Acceptance

		Luminaires Controlled		OLTG-2A
Equipment Requiring Testing	Description	Number of Like Controls	Location	Outdoor Lighting Acceptance Tests
LCS (1 thru 3)	Photo sensor/ and Time control		EE1-5, EE8-3, and EE9-3	

1. Insert: OMS for Outdoor Motion Sensor; OLSC for Outdoor Lighting Shutoff Controls; OP for Outdoor Photocontrol; ATS for Astronomical Time Switch; and, STS for Standard (non-astronomical) Time Switch acceptance.

2008 Nonresidential Compliance Forms

August 2009

CERTIFICATE OF COMPLIANCE (Page 4 of 4) OLTG-1C

COMPLIANCE FIXTURE/LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST

Project Name: **EL CENTRO MAINTENANCE FACILITY**

Date: **04-26-2010**

ALLOWED AND INSTALLED OUTDOOR LIGHTING POWER

		Lighting Wattage Power Allowance
A	Lighting power allowance for general hardscape (from OLTG-2C Page 1 of 3)	22,884
B	Specific application lighting wattage per unit length (from OLTG-2C Page 1 of 3)	-
C	Specific application wattage allowance for ornamental lighting (from OLTG-2C Page 1 of 3)	-
D	Specific application wattage allowance per application (from OLTG-2C Page 2 of 3)	-
E	Specific application lighting wattage allowance per area (from OLTG-2C Page 2 of 3)	-
F	Additional lighting power allowance for ordinance requirements (from OLTG-2C Page 3 of 3)	-
G	Total Allowed Wattage=Sum of rows A through F	22,884
H	Total installed Watts from Luminaire Schedule, (from OLTG-1C Page 2 of 4)	11,046

Complies if installed Wattage in row H is less than or equal to the Total Installed Wattage in row G Yes No

2008 Nonresidential Compliance Forms

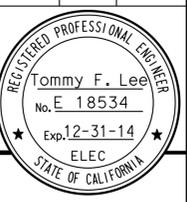
August 2009

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		311	354

Tommy F. Lee
REGISTERED ELECTRICAL ENGINEER
12-4-13 DATE

01-06-14
PLANS APPROVAL DATE

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CALIFORNIA STATE FIRE MARSHAL APPROVED

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: *[Signature]*
FRANCIS SOLICH
Approval date: 11-29-2013
CSFM No. 01-13-11-0025

DESIGN	BY <i>Baldev S. Dehal</i>	CHECKED <i>Tech Ngov</i>
DETAILS	BY <i>Kathl Andreasen</i>	CHECKED <i>Baldev S. Dehal</i>
QUANTITIES	BY <i>Baldev S. Dehal</i>	CHECKED <i>Tech Ngov</i>

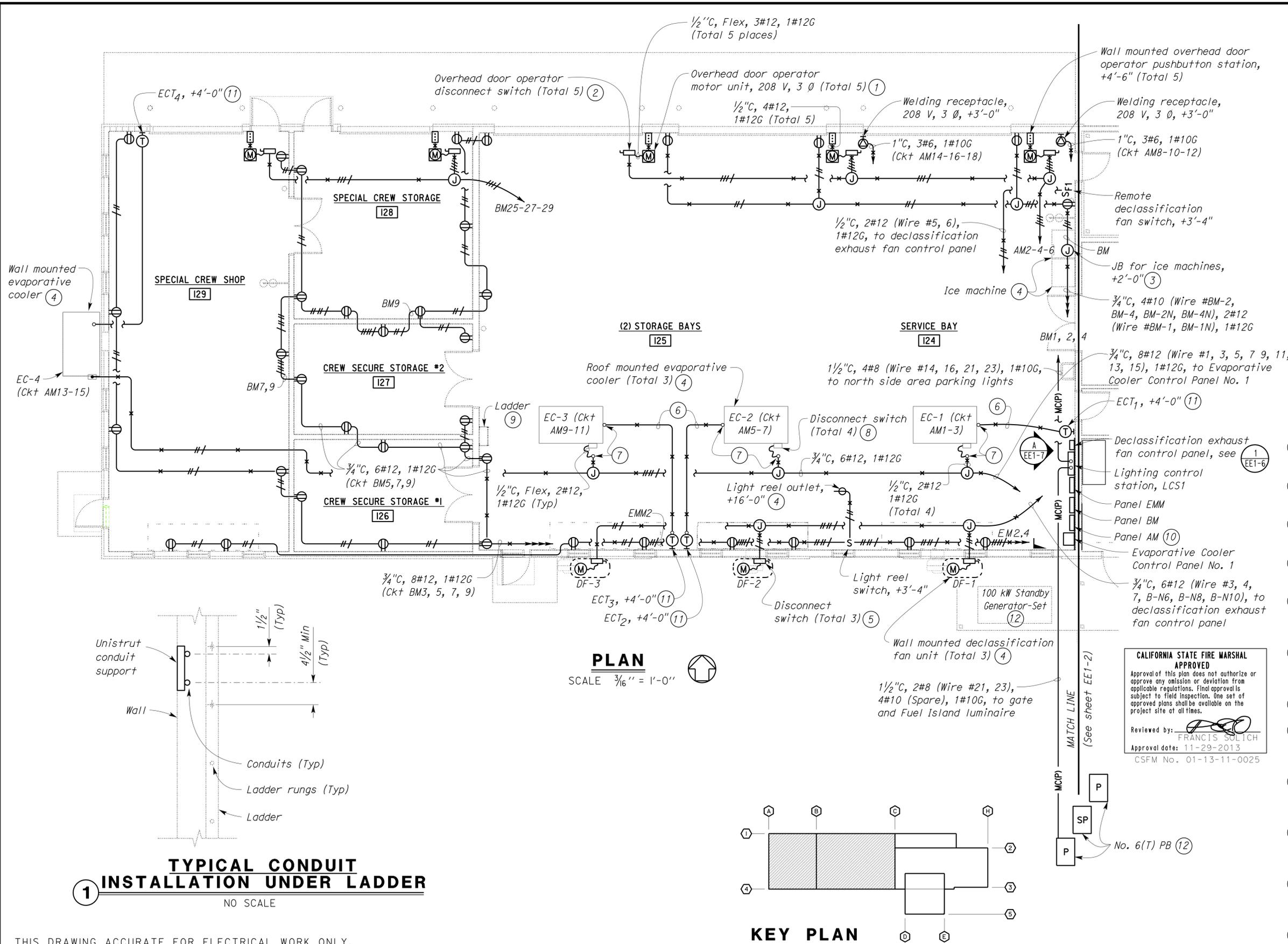
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. 58M5708
POST MILE

EL CENTRO MAINTENANCE FACILITY
TITLE 24 COMPLIANCE NO. 4

SHEET **EE0-9** OF



- General Notes:**
- Separate neutral wire shall be used for each circuit, and each homerun shall be in a separate conduit, unless otherwise shown.
 - Location shown for the overhead door operators are for illustration only. Exact location depends upon items furnished. Contractor shall provide any additional conduits and wires not shown, but necessary, for the automatic operation of the overhead doors.
 - Provide floor covering in front of Panel AM, BM, EMM, Lighting Control Station LCS1, and Exhaust Fan Control Panel.
- Notes:**
- For mounting location and details, see sheets A1-15 and A1-16.
 - Mount disconnect on the wall, next to overhead door operator motor unit.
 - Install 1/2" C, Flex, 2#10, 1#12G, from junction box, to each ice machine.
 - For mounting location and details, see sheets M1-2 and M1-6.
 - Mount disconnect switch under the exhaust fan hood. Disconnect switch is supplied by the fan unit manufacturer.
 - 1/2" C, down to thermostat, with 6 conductor, 18 AWG thermostat cable, or as recommended by the unit manufacturer.
 - Provide conduit flashing.
 - Disconnect switch is supplied by the unit manufacturer and mounted on the side of the unit supplied.
 - For conduit installation under the ladder, see 1.
 - Install 3/4" C, 1#2G, to nearest cold water and air line pipe. Install grounding hub and clamp, to bond to cold water pipe and air line pipe.
 - Wall mounted evaporative cooler control switch, (Total 4). The control switch supplied by the evaporative cooler manufacturer.
 - For conduit layout, see "ENLARGED PLAN" on sheet EE1-6.

CALIFORNIA STATE FIRE MARSHAL APPROVED
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Reviewed by: FRANCIS SOLICH
Approval date: 11-29-2013
CSFM No. 01-13-11-0025

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY Baldev S. Dehal CHECKED Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58M5708	EL CENTRO MAINTENANCE FACILITY		SHEET EE1-1					
			POST MILE	MAINTENANCE OFFICE/EQUIPMENT	POWER PLAN NO. 1						
DETAILS BY Kathl Andreasen CHECKED Baldev S. Dehal	UNIT PROJECT NUMBER & PHASE 3597 11000000351	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF					
QUANTITIES BY Baldev S. Dehal CHECKED Tech Ngov	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	EA 076701	3/9/09	12/4/13	2/7/10	4/8/10	6/2/10	7/7/10	12/3/10	2/25/13	9/15/13

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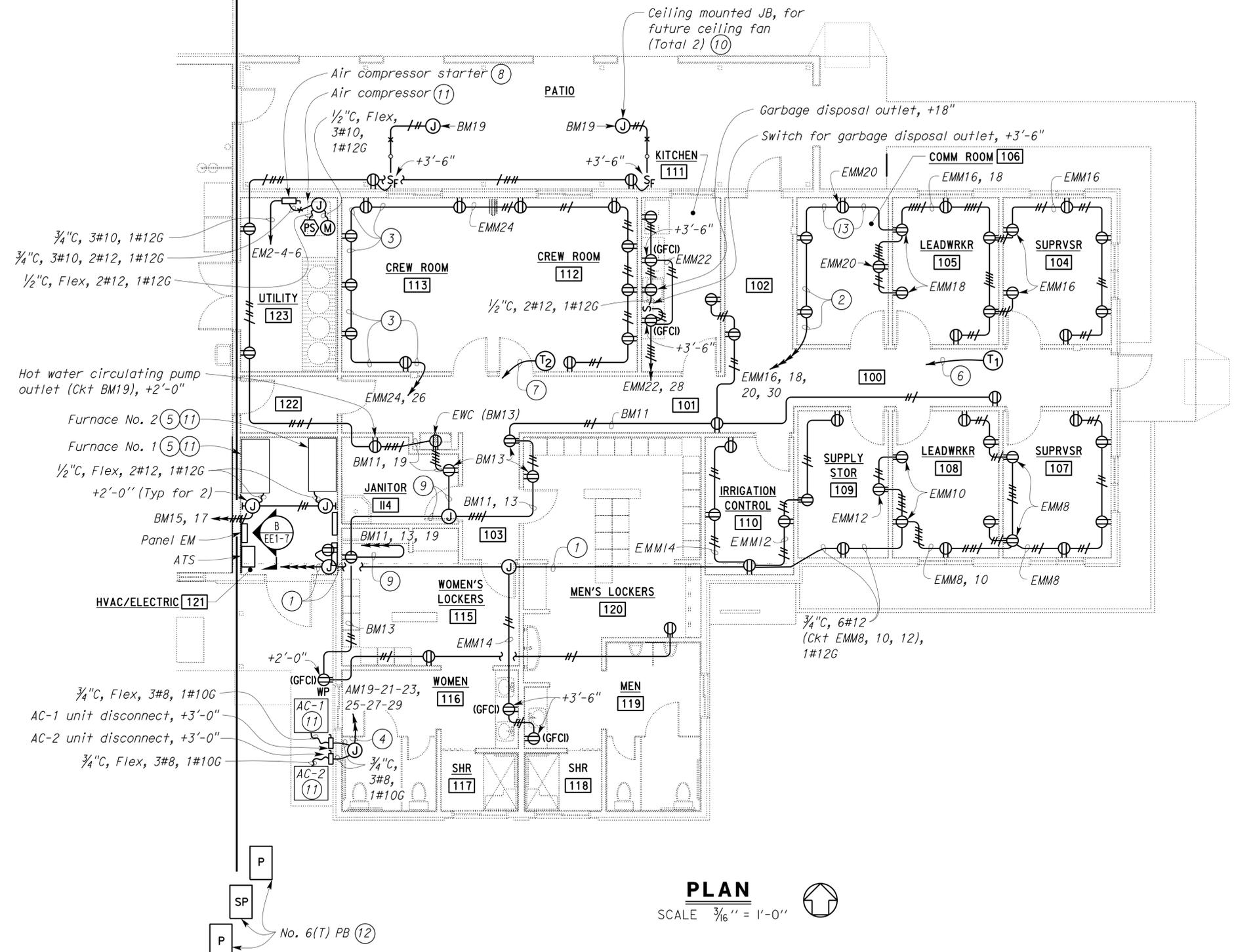
CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: FRANCIS SOLICH
 Approval date: 11-29-2013
 CSFM No. 01-13-11-0025

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		313	354

Tommy F. Lee
 REGISTERED ELECTRICAL ENGINEER
 DATE 12-4-13
 Exp. 12-31-14
 ELEC
 STATE OF CALIFORNIA

01-06-14
 PLANS APPROVAL DATE

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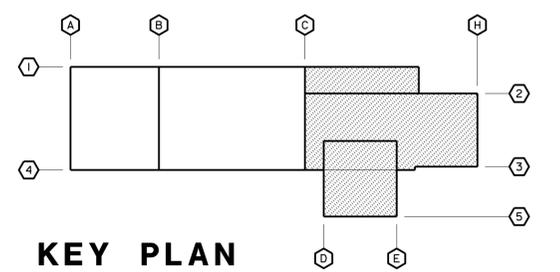
MATCH LINE
 (See sheet EE1-1)

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

PLAN
 SCALE 3/16" = 1'-0"

- General Notes:**
- Separate neutral wire shall be used for each circuit, and each homerun shall be in a separate conduit, unless otherwise shown.
 - For Panelboard AM, EMM, and BM, see sheet EE1-1.
 - For exact location of the future ceiling fans, see sheet A1-9.
 - Provide floor covering in front of ATS and Panel EM.

- Notes:**
- 3/4"C, 8#12 (Ckt EMM8, 10, 12, 14), 1#12G.
 - 3/4"C, 8#12 (Ckt EMM16, 18, 20, 30), 1#12G.
 - 1/2"C, 4#12 (Ckt EMM24, 26), 1#12G.
 - 1"C, 6#8, 1#10G.
 - Install 1/2"C, from furnace unit to AC unit, with control cable, as recommended by the unit manufacturer.
 - 1/2"C, with thermostat cable, to Furnace No. 1.
 - 1/2"C, with thermostat cable, to Furnace No. 2.
 - For air compressor schematic, see sheet EE0-3.
 - 3/4"C, 6#12 (Ckt BM11, 13, 19), 1#12G.
 - Tape the end of each wire. Paint the exposed conduit, outlet box, and conduit support to match the background paint color.
 - For location and details, see sheets M1-1 and M1-5.
 - For conduit layout, see "ENLARGED PLAN" on sheet EE1-6.
 - 3/4"C, 6#12 (Ckt EMM16, 18, 20), 1#12G.



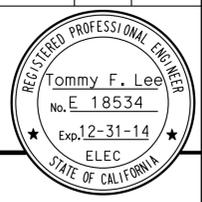
KEY PLAN

DESIGN BY Baldev S. Dehal CHECKED Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58M5708	EL CENTRO MAINTENANCE FACILITY		SHEET EE1-2
			POST MILE	MAINTENANCE OFFICE/EQUIPMENT	POWER PLAN NO. 2	
DETAILS BY Kathl Andreasen CHECKED Baldev S. Dehal	UNIT PROJECT NUMBER & PHASE 3597 11000000351	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF
QUANTITIES BY Baldev S. Dehal CHECKED Tech Ngov	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	3/9/09 12/4/13 2/7/10 4/8/10 6/2/10 7/7/10 12/3/10 2/25/13 9/13/13				

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 EA 076701
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DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		314	354

Tommy F. Lee		12-4-13
REGISTERED ELECTRICAL ENGINEER	DATE	
01-06-14		
PLANS APPROVAL DATE		
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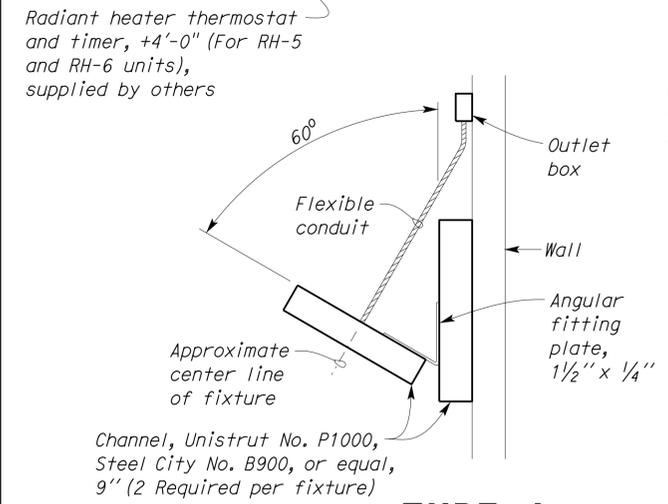
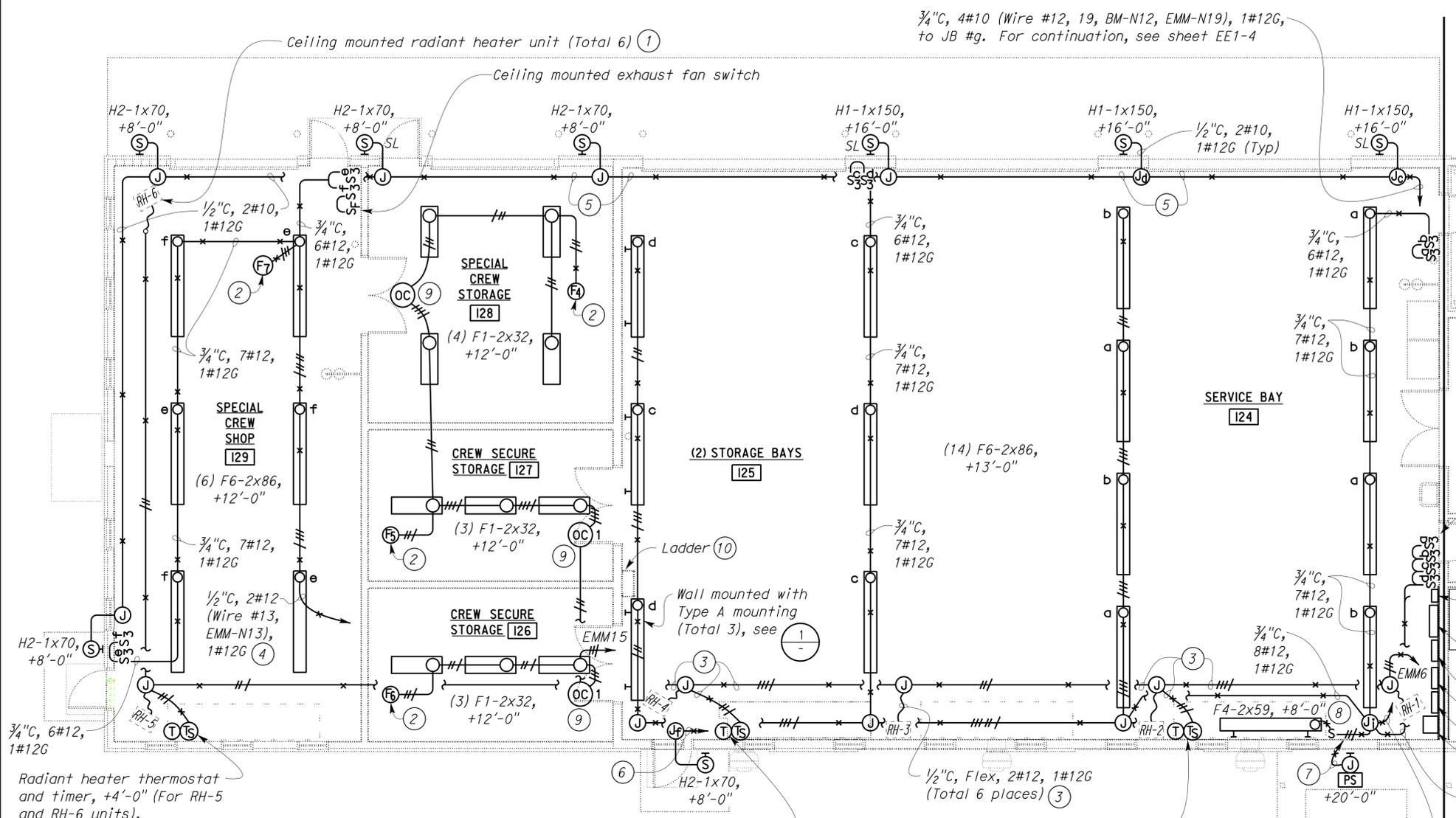
General Notes:

- A. Separate neutral wire shall be used for each circuit, and each homerun shall be in a separate conduit, unless otherwise shown.
- B. For exact location of all lighting fixtures, see sheet A1-10.

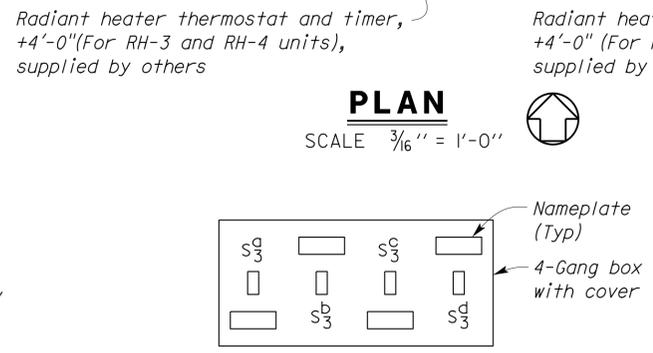
CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: FRANCIS SOLICH
 Approval date: 11-29-2013
 CSFM No. 01-13-11-0025

Notes:

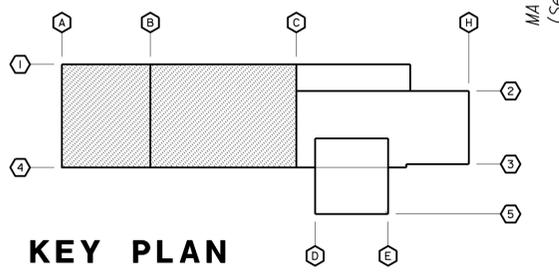
- ① For location and mounting details, see sheet M1-6.
- ② Ceiling mounted exhaust fan. For location and mounting details, see sheet M1-6.
- ③ Provide additional cable or wires, as required for automatic operation of the radiant heater units.
- ④ To Lighting Control Station LCS1.
- ⑤ 3/4" C, 4#10 (Wire #12, 19, BM-N12, EMM-N19), 1#12G.
- ⑥ 1/2" C, 2#10 (Wire #12, BM-N12), 1#12G, to JB #a. See sheet EE1-4.
- ⑦ 1/2" C, 2#12 (Wire #5, 6), to Lighting Control Station LCS1.
- ⑧ Wall mounted with Type B mounting, see ③.
- ⑨ Turns on the lights and exhaust fan.
- ⑩ For conduit installation under the ladder, see ①.



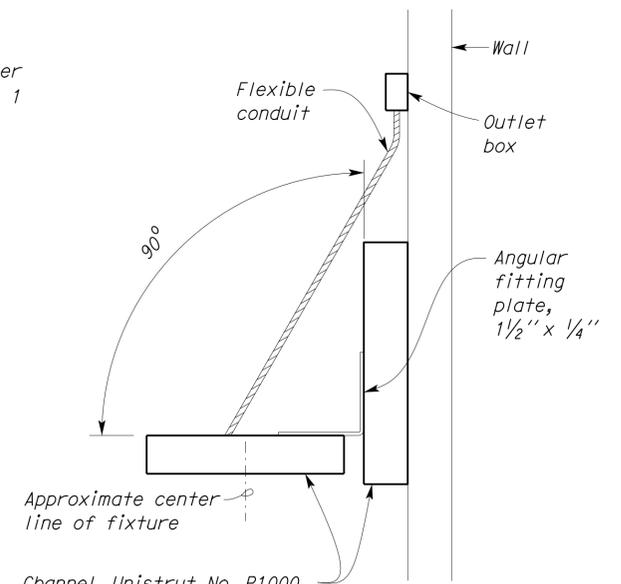
1 TYPE A FIXTURE MOUNTING DETAIL
NO SCALE



2 LIGHT SWITCHES DETAIL
NO SCALE



KEY PLAN



3 TYPE B FIXTURE MOUNTING DETAIL
NO SCALE

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY Baldev S. Dehal	CHECKED Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58M5708	EL CENTRO MAINTENANCE FACILITY		SHEET EE1-3
	DETAILS	BY Kathl Andreasen			CHECKED Baldev S. Dehal	POST MILE	MAINTENANCE OFFICE/EQUIPMENT	
QUANTITIES	BY Baldev S. Dehal	CHECKED Tech Ngov	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3597 11000000351	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	

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General Notes:

- A. Separate neutral wire shall be used for each circuit, and each homerun shall be in a separate conduit, unless otherwise shown.
- B. For exact location of all lighting fixtures, see sheet A1-9.
- C. For Panelboards EMM, BM, and Lighting Control Station LCS1, see sheet EE1-3.

CALIFORNIA STATE FIRE MARSHAL
APPROVED
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 Reviewed by: *[Signature]*
 FRANCIS SOLICH
 Approval date: 11-29-2013
 CSFM No. 01-13-11-0025

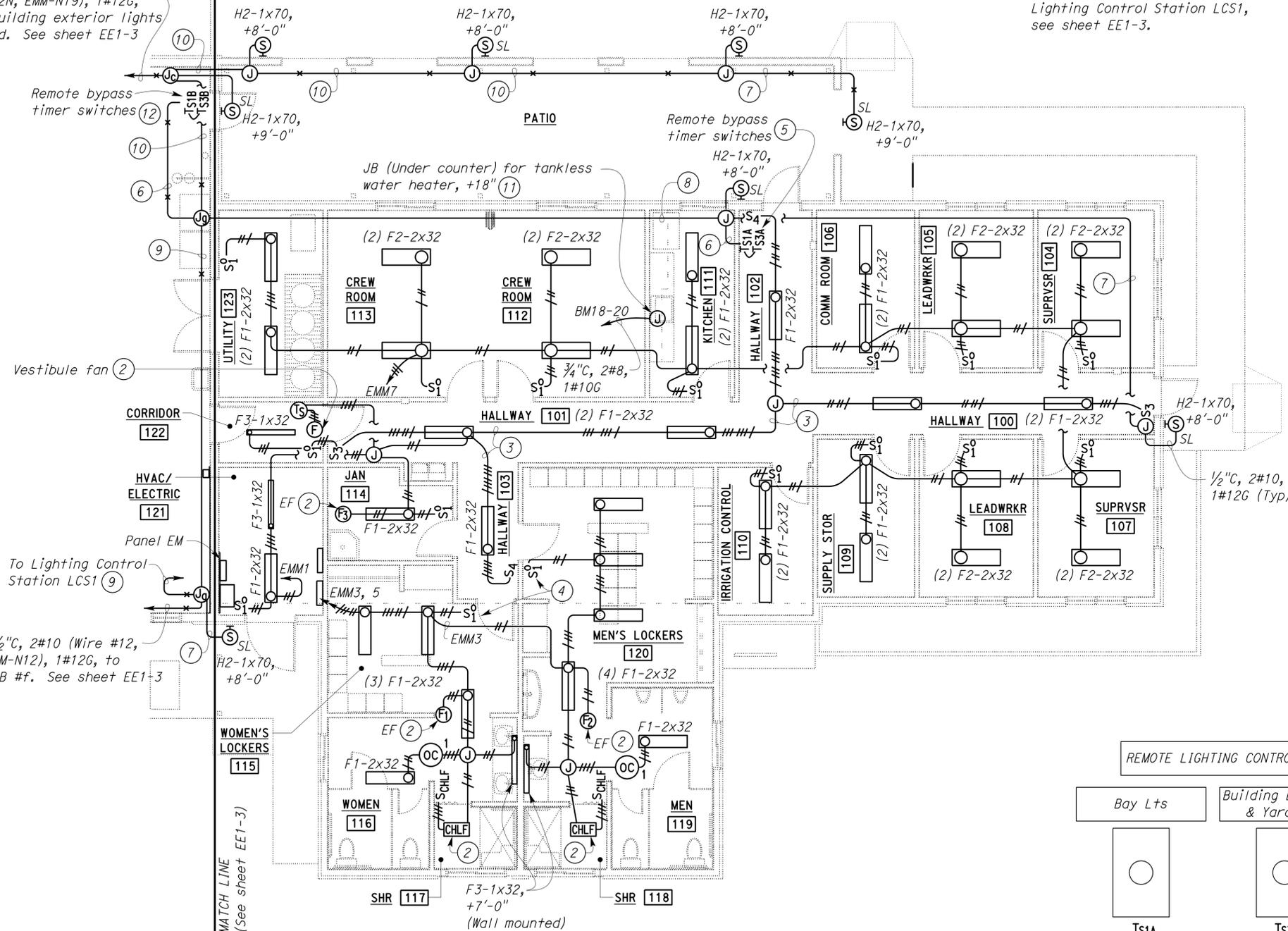
DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		315	354

Tommy F. Lee
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3/4" C, 4#10 (Wire #12, 19, BM-N12N, EMM-N19), 1#12G, to building exterior lights JB #d. See sheet EE1-3

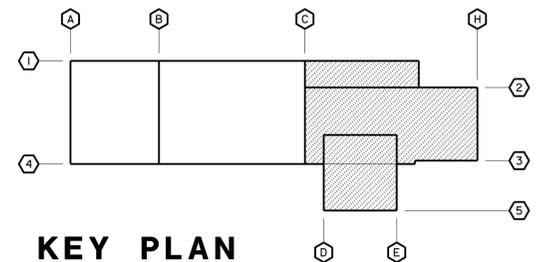


PLAN

SCALE 3/16" = 1'-0"

1 NAMEPLATE DETAIL

NO SCALE



KEY PLAN

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY Baldev S. Dehal	CHECKED Tech Ngov
DETAILS	BY Kathl Andreasen	CHECKED Baldev S. Dehal
QUANTITIES	BY Baldev S. Dehal	CHECKED Tech Ngov

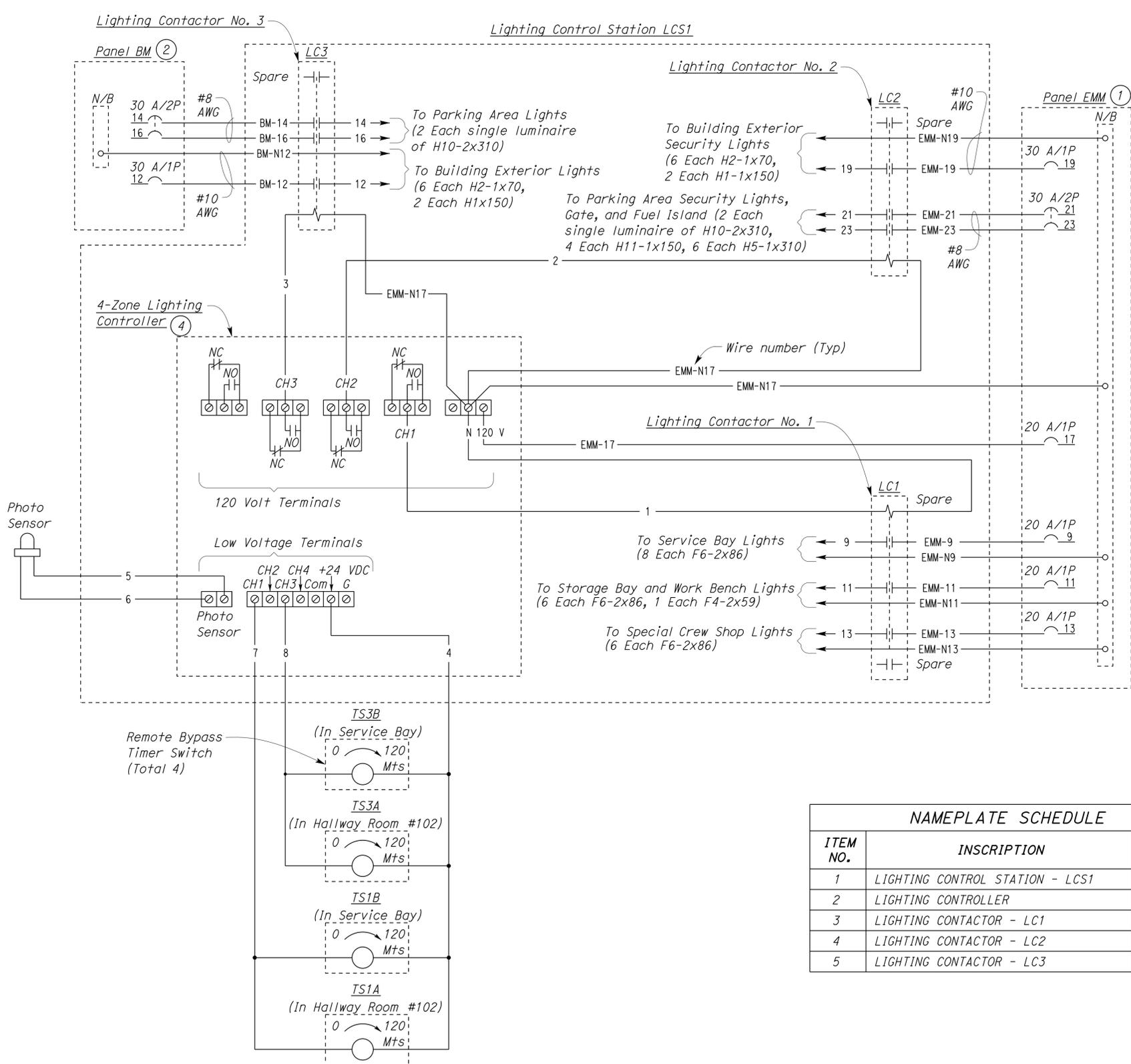
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. 58M5708
 POST MILE

EL CENTRO MAINTENANCE FACILITY
 MAINTENANCE OFFICE/EQUIPMENT
LIGHTING PLAN NO. 2

SHEET **EE1-4**



LIGHTING CONTROL SCHEMATIC

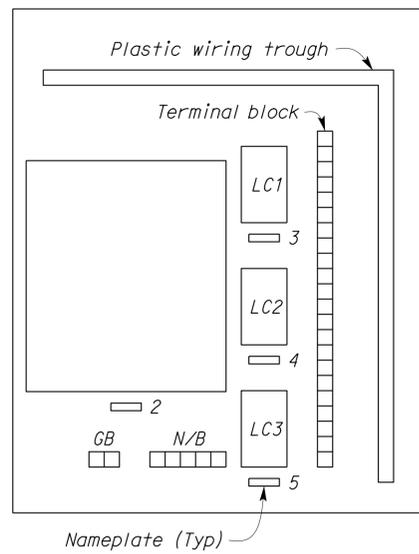
NAMEPLATE SCHEDULE		
ITEM NO.	INSCRIPTION	LETTER HEIGHT
1	LIGHTING CONTROL STATION - LCS1	1/4"
2	LIGHTING CONTROLLER	1/8"
3	LIGHTING CONTACTOR - LC1	1/8"
4	LIGHTING CONTACTOR - LC2	1/8"
5	LIGHTING CONTACTOR - LC3	1/8"

Notes:

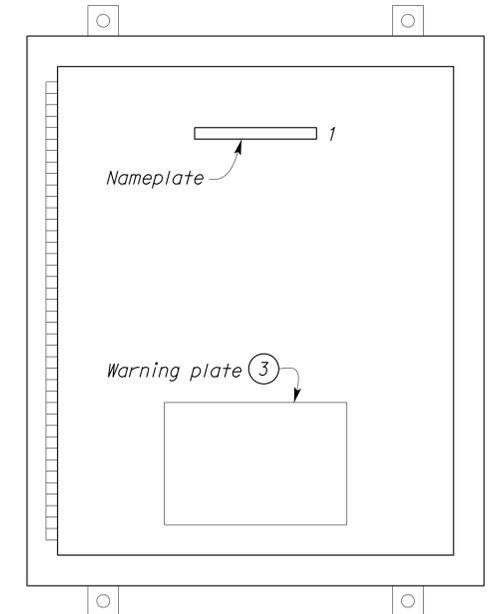
- For additional branch circuit breaker, see panel schedule on sheet EE1-9.
- For additional branch circuit breaker, see panel schedule on sheet EE1-9.
- Warning plate letter height shall be 1/4" letters with inscription as follows:
WARNING
FOREIGN VOLTAGE PRESENT IN THIS CABINET. DISCONNECT CIRCUIT BREAKER NO. 9, 11, 13, 17, 19 & 21-23 IN PANEL EMM AND CIRCUIT BREAKER NO. 12, 14-16 IN PANEL BM BEFORE SERVICING.
- Set lighting controller settings as follows:

LIGHTING CONTROLLER SETTING:

- CHANNEL 1:**
The Service Bay lights, Storage Bays and work bench lights, and Special Crew Shop lights to be "ON" Monday through Friday, 6 AM to 6 PM.
- CHANNEL 2:**
The building exterior security lights and the parking security lights to be "ON" when ambient lighting drops to 5 footcandles (Photosensor), and turn "OFF" at 10 footcandles.
- CHANNEL 3:**
The parking area lights and the building exterior lights to be "ON" when ambient lighting drops to 5 footcandles (Photosensor), and "OFF" at 11:00 PM.



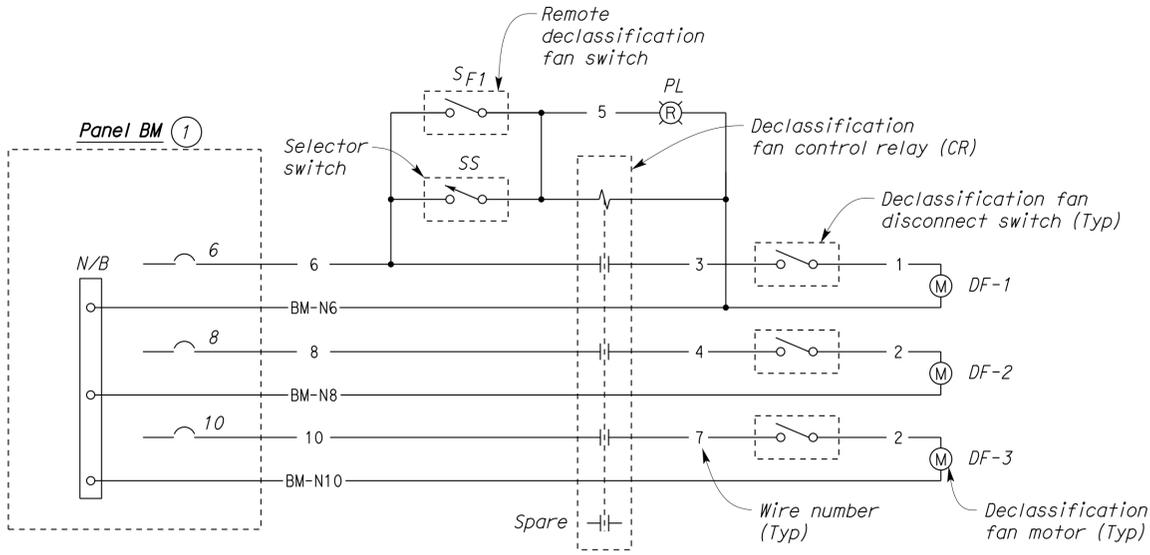
PANEL MOUNTED EQUIPMENT



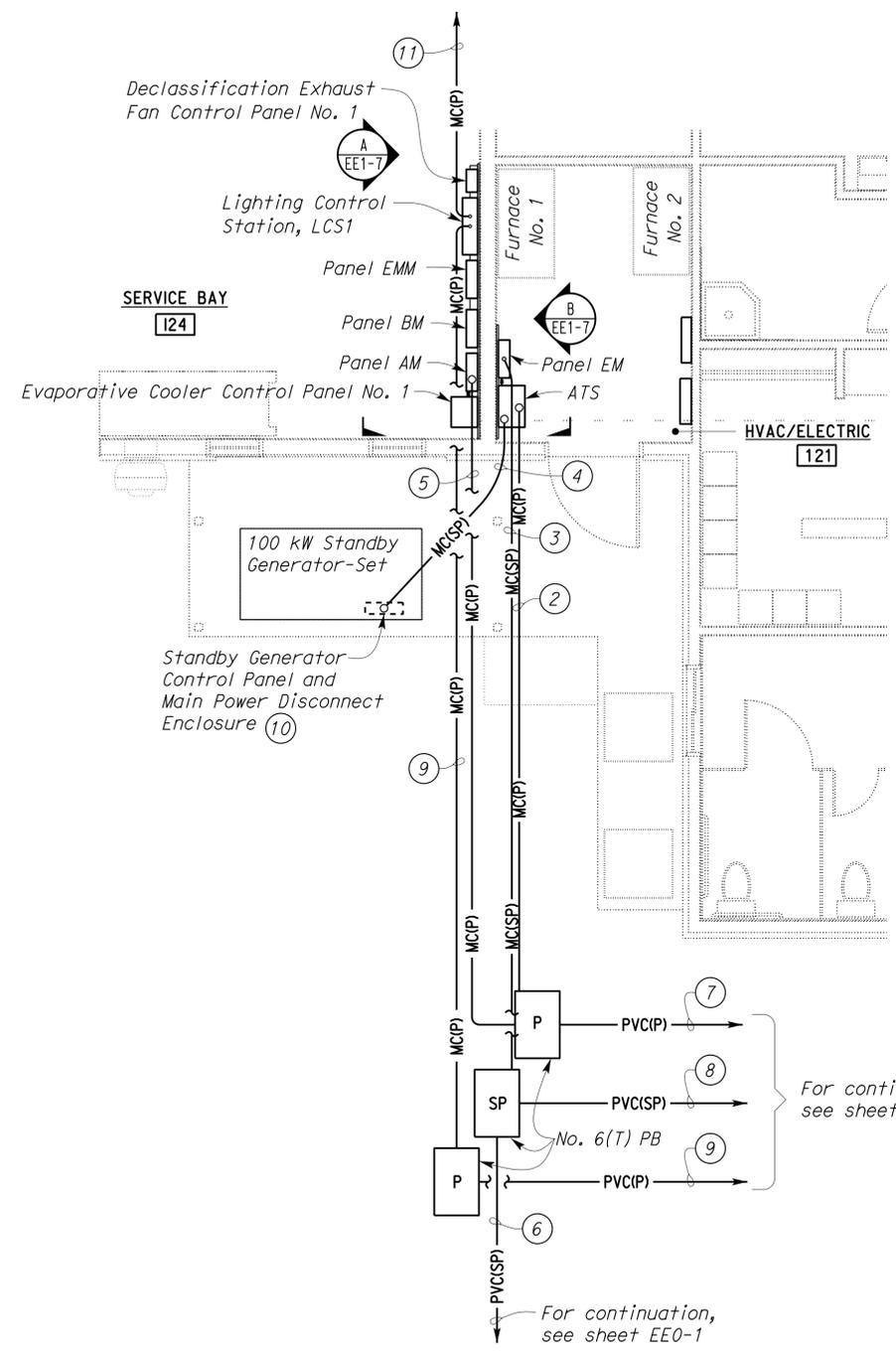
DOOR MOUNTED EQUIPMENT

1 LIGHTING CONTROL STATION - LCS1
NO SCALE

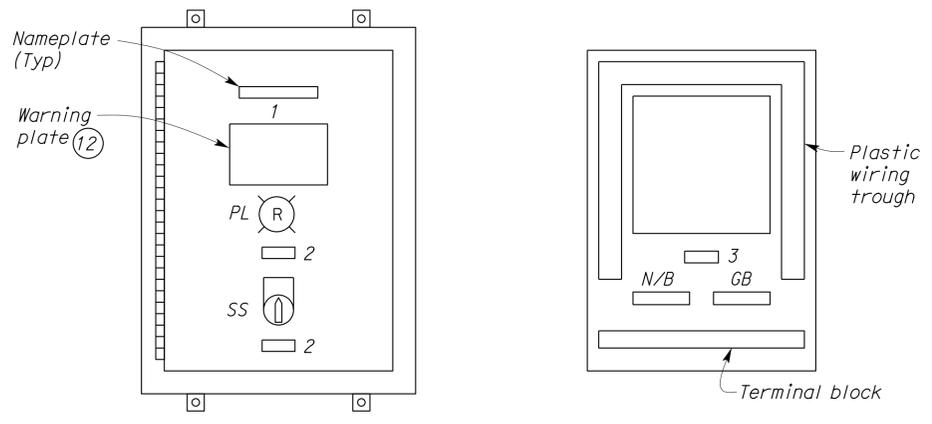
THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.



DECLASSIFICATION EXHAUST FANS SCHEMATIC
 NO SCALE



- Notes:
- For additional branch circuit breakers, see panel schedule on sheet EE1-9.
 - 4" C, 4#600 MCM, 1#2G.
 - (1) 3" C, 4#4/0, 1#6G, to Panel EMR, (1) 2" C, 4#2/0, 1#6G, to Panel EMS, and (1) 1 1/2" C, 4#4, 1#6G, to Panel EMF.
 - 4" C, 4#600 MCM, 1#2G, 4#12, 4#10 (Spare).
 - 4" C, 4#350 MCM, 1#2G.
 - 3" C, 4#4/0, 1#6G, to Panel EMR.
 - (1) 4" C, 4#600 MCM, 1#2G, to Service Pedestal, and (1) 4" C, 4#350 MCM, 1#2G, to Service Pedestal.
 - (1) 2" C, 4#2/0, 1#6G, to Panel EMS, through pull box, and (1) 1 1/2" C, 4#4, 1#6G, to Panel EMF, through emergency disconnect.
 - 1 1/2" C, 2#8 (Wire #21, 23), 4#10 (Spare), 1#10G, to gate and Fuel Island luminaire.
 - The conduit location is shown arbitrarily only. Coordinate with generator-set manufacturer for correct location of conduit stub-up. Install additional conduits and conductors if required by the generator-set manufacturer.
 - 1 1/2" C, 4#8 (Wire #14, 16, 21, 23), 1#10G, to north side area parking lights.
 - Warning plate letter height shall be 1/4" letters with inscription as follows:
 FOREIGN VOLTAGE PRESENT IN THIS CABINET.
 DISCONNECT CIRCUIT BREAKER NO. 6, 8, 10
 IN PANEL BM BEFORE SERVICING.



DOOR MOUNTED EQUIPMENT **PANEL MOUNTED EQUIPMENT**

1 DECLASSIFICATION EXHAUST FAN CONTROL PANEL No. 1
 NO SCALE

NAMEPLATE SCHEDULE		
ITEM NO.	INSCRIPTION	LETTER HEIGHT
1	DECLASSIFICATION EXHAUST FAN CONTROL PANEL NO. 1	1/4"
2	EXHAUST FANS	1/8"
3	CONTROL RELAY - CR	1/8"

ENLARGED PLAN
 SCALE 1/4" = 1'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

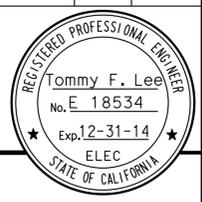
CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *Francis Sulich*
 Approval date: 11-29-2013
 CSFM No. 01-13-11-0025

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		318	354

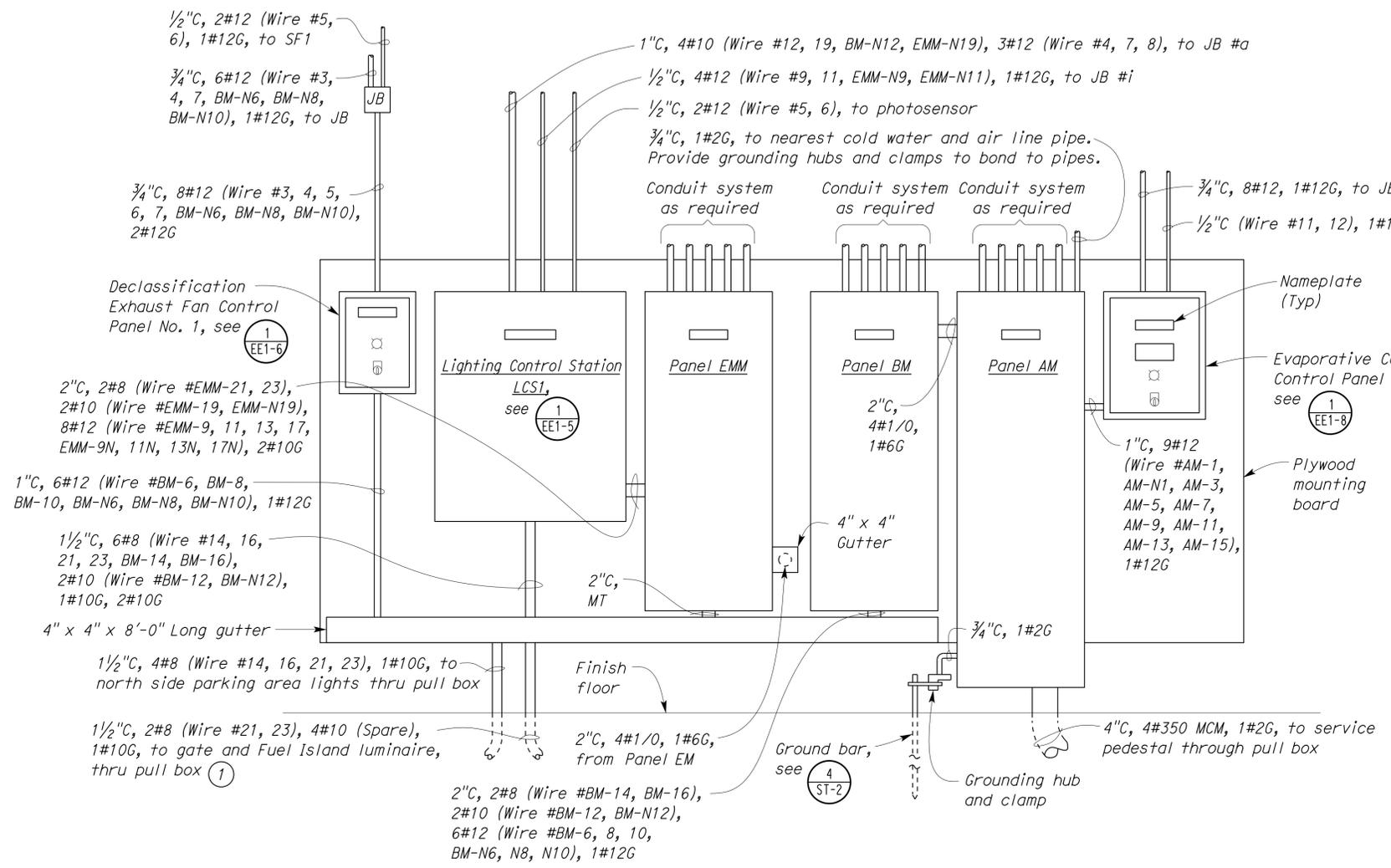
<i>Tommy F. Lee</i>		12-4-13
REGISTERED ELECTRICAL ENGINEER	DATE	

01-06-14
PLANS APPROVAL DATE

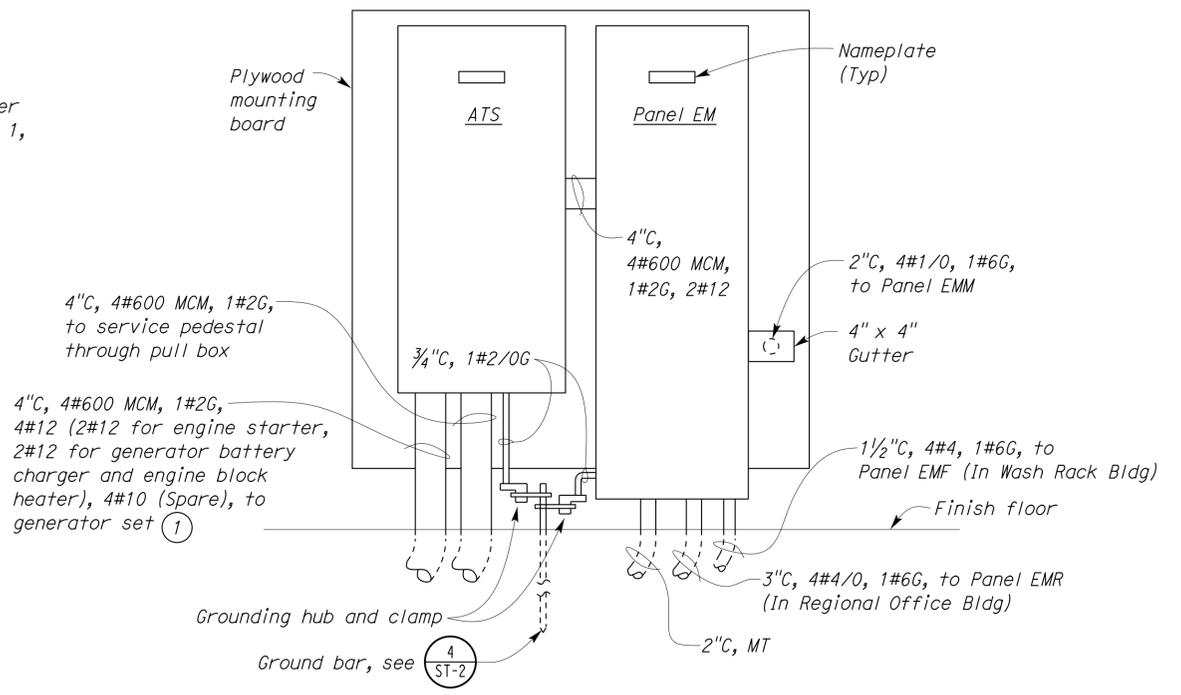
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



Note:
 ① Coil 4#10 spare wires inside 4" x 4" x 8'-0" gutter. Tape both ends of the spare wires. Identify each spare wire, on each end, as S1, S2, S3, and S4.



A ELEVATION
 SCALE 1" = 1'-0"



B ELEVATION
 SCALE 1" = 1'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

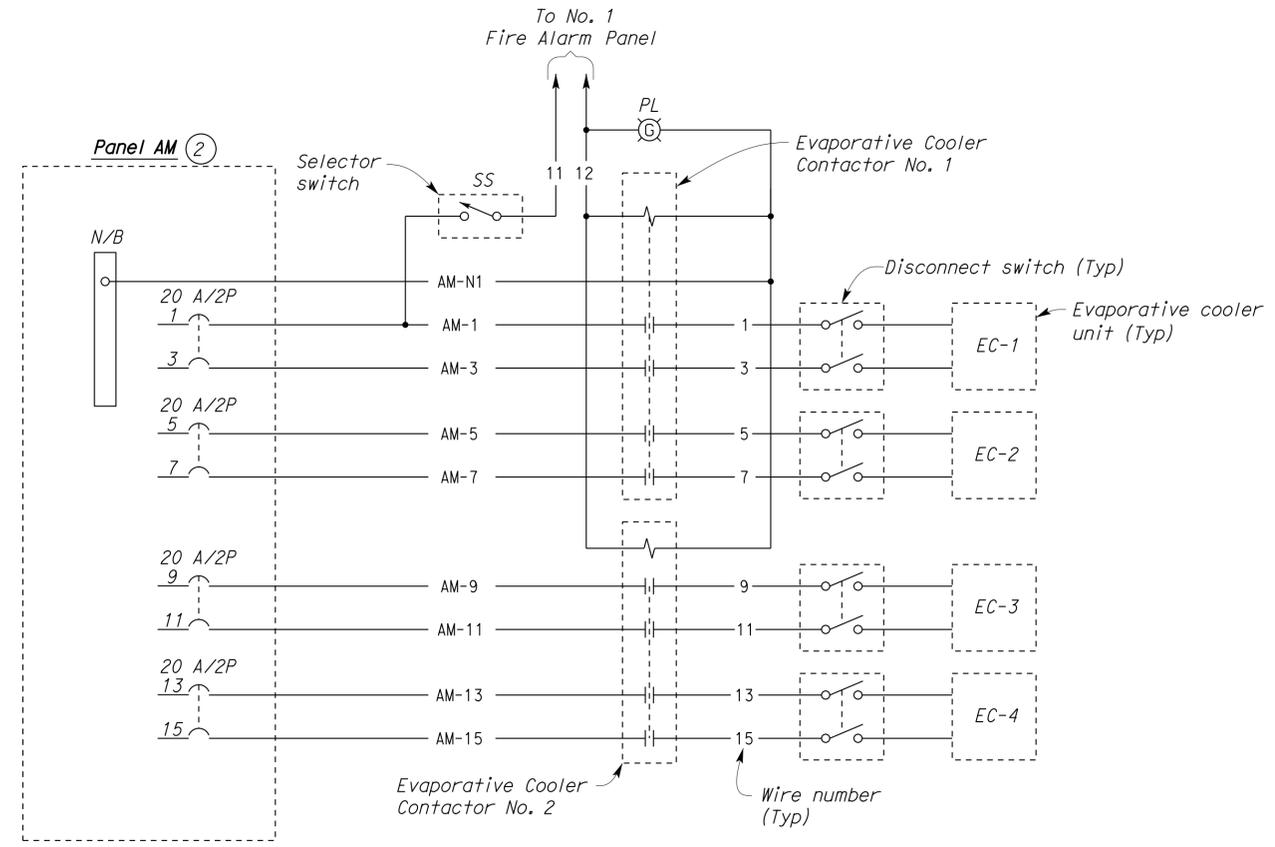
DESIGN BY <i>Baldev S. Dehal</i>	CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58M5708	EL CENTRO MAINTENANCE FACILITY		SHEET EE1-7							
				POST MILE	MAINTENANCE OFFICE/EQUIPMENT	PANEL ELEVATIONS								
DETAILS BY <i>Kathl Andreasen</i>	CHECKED <i>Baldev S. Dehal</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3597 11000000351	REVISION DATES (PRELIMINARY STAGE ONLY)				SHEET OF						
QUANTITIES BY <i>Baldev S. Dehal</i>	CHECKED <i>Tech Ngov</i>			0	1	2	3		10/28/09	2/16/10	4/6/10	6/28/10	12/3/10	2/25/13

EA 076701

21-JAN-2014 09:06

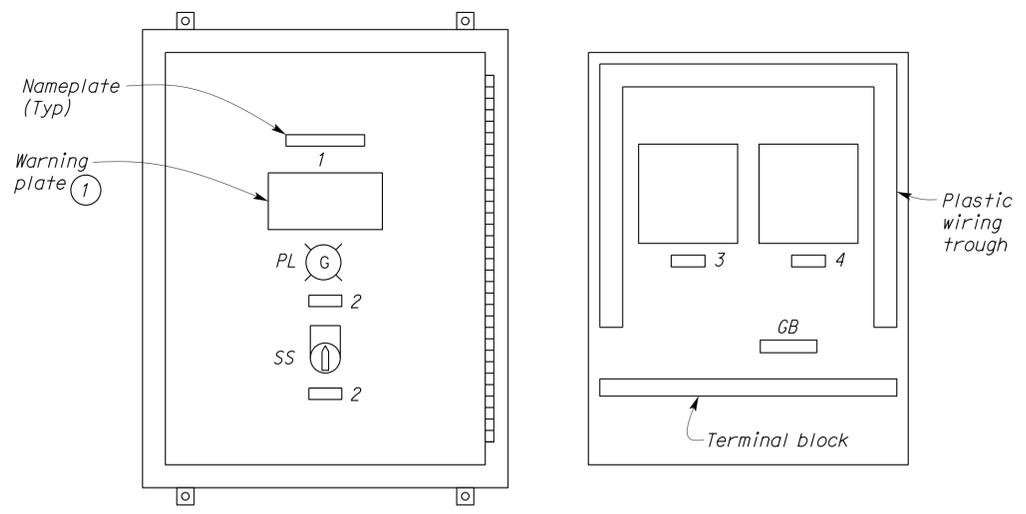
CALIFORNIA STATE FIRE MARSHAL
APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *[Signature]*
 FRANCIS SOLICH
 Approval date: 11-29-2013
 CSFM No. 01-13-11-0025

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		319	354
Tommy F. Lee			12-4-13	REGISTERED ELECTRICAL ENGINEER DATE	
01-06-14			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



EVAPORATIVE COOLERS CONTROL SCHEMATIC

NO SCALE



DOOR MOUNTED EQUIPMENT

PANEL MOUNTED EQUIPMENT

1 EVAPORATIVE COOLER CONTROL PANEL NO. 1

NO SCALE

NAMEPLATE SCHEDULE		
ITEM NO.	INSCRIPTION	LETTER HEIGHT
1	EVAPORATIVE COOLER CONTROL PANEL NO. 1	1/4"
2	EVAPORATIVE COOLERS	1/8"
3	CONTACTOR NO. 1	1/8"
4	CONTACTOR NO. 2	1/8"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <i>Baldev S. Dehal</i>	CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58M5708	EL CENTRO MAINTENANCE FACILITY		SHEET EE1-8	
				POST MILE	MAINTENANCE OFFICE/EQUIPMENT	EVAPORATIVE COOLER CONTROLS		
DETAILS BY <i>Kathl Andreasen</i>	CHECKED <i>Baldev S. Dehal</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3597 11000000351	DISREGARD PRINTS BEARING EARLIER REVISION DATES				SHEET OF
QUANTITIES BY <i>Baldev S. Dehal</i>	CHECKED <i>Tech Ngov</i>			REVISION DATES (PRELIMINARY STAGE ONLY)				

21-JAN-2014 09:06

ee1_08.dgn

MAIN: 250-AMPERE CB
VOLTS: 120/208 V, 3 Ø, 4-WIRE

PANEL AM

FEEDER SIZE: 4#350 MCM
LOCATION: SERVICE BAY

DESCRIPTION	AMPERES			BRK	CKT	A	B	C	CKT	BRK	AMPERES			DESCRIPTION
	A	B	C								A	B	C	
EVAPORATIVE COOLER (EC-1)	10.0			20/2	1	•			2		6.0			OVERHEAD DOORS - SERVICE BAY AND STORAGE BAYS
		10.0			3	•			4	15/3		6.0		
EVAPORATIVE COOLER (EC-2)			10.0	20/2	5	•			6				6.0	WELDING RECEPTACLE - SERVICE BAY (EAST SIDE)
	10.0				7	•			8	60/3		27.0		
EVAPORATIVE COOLER (EC-3)		10.0		20/2	9	•			10			27.0		WELDING RECEPTACLE - SERVICE BAY (WEST SIDE)
			10.0		11	•			12	60/3		27.0		
EVAPORATIVE COOLER (EC-4)	10.0			20/2	13	•			14			27.0		SPARE
		10.0			15	•			16	60/3		27.0		
SPARE			---	20/1	17	•			18				27.0	PANEL BM
A/C-1 UNIT	24.0			*	19	•			20	150/3	89.8			
		24.0		40/3	21	•			22	150/3		60.6		SPARE
			24.0		23	•			24	20/3			76.3	
A/C-2 UNIT	24.0			*	25	•			26		---			SPARE
		24.0		40/3	27	•			28	20/3		---		
			24.0		29	•			30			---		

* HACR-TYPE CIRCUIT BREAKER

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
227.8	198.6	204.3	

MAIN: 150-AMPERE CB
VOLTS: 120/208 V, 3 Ø, 4-WIRE

PANEL BM

FEEDER SIZE: 4#1/0 AWG
LOCATION: SERVICE BAY

DESCRIPTION	AMPERES			BRK	CKT	A	B	C	CKT	BRK	AMPERES			DESCRIPTION
	A	B	C								A	B	C	
RECEPT - NORTH WALL SERVICE AND STORAGE BAYS	6.0			**	20/1	1	•		2	* 30/1	15.5			ICE MACHINE #1
RECEPT - SPECIAL CREW SHOP, SOUTH WALL CREW STORAGE #1		10.5		**	20/1	3	•		4	* 30/1		15.5		ICE MACHINE #2
RECEPT - NORTH WALL CREW STORAGE #1, SOUTH WALL CREW STORAGE #2			9.0	**	20/1	5	•		6	15/1			5.6	DECLASSIFICATION FAN (DF-1)
RECEPT - WEST WALL SPECIAL CREW STORAGE, EAST WALL SPECIAL CREW STORAGE	9.0			**	20/1	7	•		8	15/1	5.6			DECLASSIFICATION FAN (DF-1)
RECEPT - EAST WALL SPECIAL CREW STORAGE, WEST WALL STORAGE BAY		9.0		**	20/1	9	•		10	15/1		5.6		DECLASSIFICATION FAN (DF-1)
RECEPT - UTILITY ROOM 123, HALLWAY ROOM #100, 101, 102			12.0	20/1	11	•			12	30/1			8.0	LIGHTS - BUILDING EXTERIOR
RECEPT - A/C UNIT, MEN'S AND WOMEN'S LOCKER, EWC, AND JANITOR	12.0			20/1	13	•			14	30/2	3.0			LIGHTS - PARKING AREA
FURNACE NO. 1		13.0		20/1	15	•			16			3.0		
FURNACE NO. 2			13.0	20/1	17	•			18				24.7	TANKLESS WATER HEATER
PATIO CEILING FANS AND HOT WATER CIRCULATING PUMP	10.0			20/1	19	•			20	40/2	24.7			
SPARE		---		20/1	21	•			22	20/1		---		SPARE
SPARE			---	20/1	23	•			24	20/1		---		SPARE
OVERHEAD DOORS - SPECIAL CREW SHOP AND STORAGE	4.0				25	•			26	20/1	---			SPARE
		4.0		15/3	27	•			28	20/1		---		SPARE
			4.0		29	•			30	20/1		---		SPARE

* HACR-TYPE CIRCUIT BREAKER

** GFCI-TYPE CIRCUIT BREAKER (6 MILLIAMPERE)

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
89.8	60.6	76.3	

CALIFORNIA STATE FIRE MARSHAL APPROVED
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by: *Francis Solich*
FRANCIS SOLICH
Approval date: 11-29-2013
CSFM No. 01-13-11-0025

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		320	354

Tommy F. Lee 12-4-13
REGISTERED ELECTRICAL ENGINEER DATE

Tommy F. Lee
No. E 18534
Exp. 12-31-14
ELEC
STATE OF CALIFORNIA

01-06-14
PLANS APPROVAL DATE

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MAIN: 150-AMPERE CB
VOLTS: 120/208 V, 3 Ø, 4-WIRE

PANEL EMM

FEEDER SIZE: 4#1/0 AWG
LOCATION: SERVICE BAY

DESCRIPTION	AMPERES			BRK	CKT	A	B	C	CKT	BRK	AMPERES			DESCRIPTION
	A	B	C								A	B	C	
LIGHTS - ELEC RM, HALLWAY #100,101,102, &103 LIGHTS & FAN - VESTIBULE & JANITOR ROOM	5.0			20/1	1	•			2	* 20/1	7.0			RECEPT - SERVICE BAY & STORAGE BAY WORKBENCH & LIGHT REEL
LIGHTS & FAN - MEN'S LOCKER & RESTROOM		10.0		20/1	3	•			4	* 20/1		6.0		RECEPT - STORAGE BAY & SPECIAL CREW SHOP WORK BENCH
LIGHTS & FAN - WOMEN'S LOCKER & RESTROOM			9.5	20/1	5	•			6	20/1			3.0	RADIANT HEATERS - SERVICE AND STORAGE BAY, SPECIAL CREW SHOP
LIGHTS - ROOM #104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 123	10.0			20/1	7	•			8	20/1	9.0			RECEPT - SUPERVISOR ROOM #107
LIGHTS - SERVICE BAY		11.5		20/1	9	•			10	20/1		9.0		RECEPT - LEADWORKER ROOM #108
LIGHTS - STORAGE BAYS AND WORKBENCH			10.0	20/1	11	•			12	20/1			7.5	RECEPT - SUPPLY STORAGE & EAST WALL IRRIGATION CONTROL RM #110
LIGHTS & FAN - SPECIAL CREW SHOP	13.0			20/1	13	•			14	20/1	9.0			RECEPT - WEST WALL IRRIGATION CONTROL RM #110, MEN'S & WOMEN'S RM
LIGHTS & FAN - CREW STOR 126 & 127, SPECIAL CREW STORAGE		6.7		20/1	15	•			16	20/1		9.0		RECEPT - SUPERVISOR ROOM #104
LIGHTING CONTROL STATION NO. 1			1.0	20/1	17	•			18	20/1			9.0	RECEPT - LEADWORKER ROOM #105
SECURITY LIGHTS - BLDG EXTERIOR	8.0			30/1	19	•			20	20/1	3.0			RECEPT - COMMUNICATION ROOM #106 (EAST WALL)
SECURITY LIGHTS - PARKING AREA		14		30/2	21	•			22	20/1		3.0		RECEPT - REFRIGERATOR AND NORTH SIDE COUNTERTOP
SPARE**	---			20/2	25	•			24	20/1			9.0	RECEPT - CREW ROOM #112
SPARE		---		20/1	27	•			26	20/1	9.0			RECEPT - CREW ROOM #113
SPARE			---	20/1	29	•			28	20/1		3.0		RECEPT - GARBAGE DISPOSAL AND SOUTH SIDE COUNTERTOP
SPARE			---	20/1	31	•			30	20/1			3.0	RECEPT - COMMUNICATION ROOM #106 (WEST WALL)
SPARE			---	20/1	32	•			32	20/1	---			SPARE

* GFCI-TYPE CIRCUIT BREAKER (6 MILLIAMPERE)
** FOR ELECTRIC GATE OPERATOR

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
73.0	72.2	66	

MAIN: 400-AMPERE CB
VOLTS: 120/208 V, 3 Ø, 4-WIRE

PANEL EM

FEEDER SIZE: 4#600 MCM
LOCATION: HVAC/ELEC ROOM

DESCRIPTION	AMPERES			BRK	CKT	A	B	C	CKT	BRK	AMPERES			DESCRIPTION
	A	B	C								A	B	C	
PANEL EMM	73.0				1	•			2		71.0			PANEL EMS
		72.2		150/3	3	•			4	150/3		69.1		
			66		5	•			6			70.3		
PANEL EMR	134.6				7	•			8		11.3			PANEL EMF
		126.0		225/3	9	•			10	50/3		10.8		
			143.9		11	•			12			10.0		
AIR COMPRESSOR	17.5				13	•			14	20/1	10.0			GENERATOR BLOCK HEATER & BATTERY CHARGER
		17.5		40/3	15	•			16	* 20/1		1.0		NO. 1 FIRE ALARM CONTROL PANEL **
			17.5		17	•			18	20/1			1.0	NO. 1 INTRUSION ALARM PANEL
SPARE	---				19	•			20	20/1	---			SPARE
		---		50/3	21	•			22	20/1		---		SPARE
			---		23	•			24	20/1		---		SPARE

* INSTALL LOCKING MECHANISM FOR THIS CIRCUIT BREAKER

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
317.4	296.6	308.7	

**1. The FIRE ALARM circuit shall be a dedicated branch circuit(s) and connection shall be mechanically protected.

2. Circuit disconnecting means shall have a RED marking, it shall be accessible only to authorized personnel, and shall be identified as "Fire Alarm Circuit".

DESIGN	BY Baldev S. Dehal	CHECKED Tech Ngov
DETAILS	BY Kathl Andreasen	CHECKED Baldev S. Dehal
QUANTITIES	BY Baldev S. Dehal	CHECKED Tech Ngov

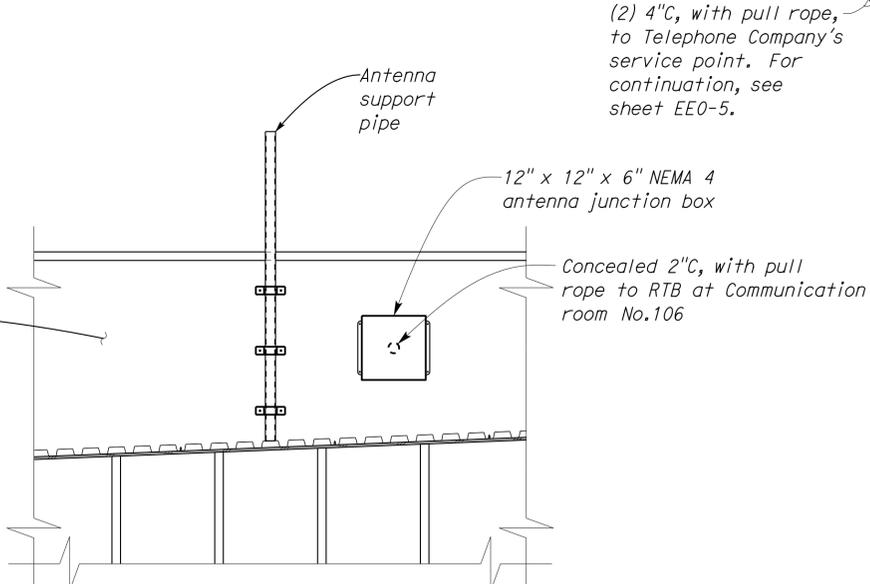
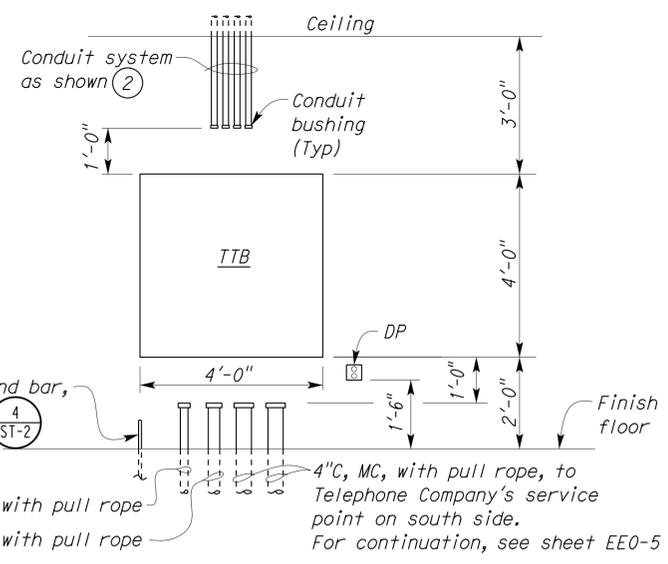
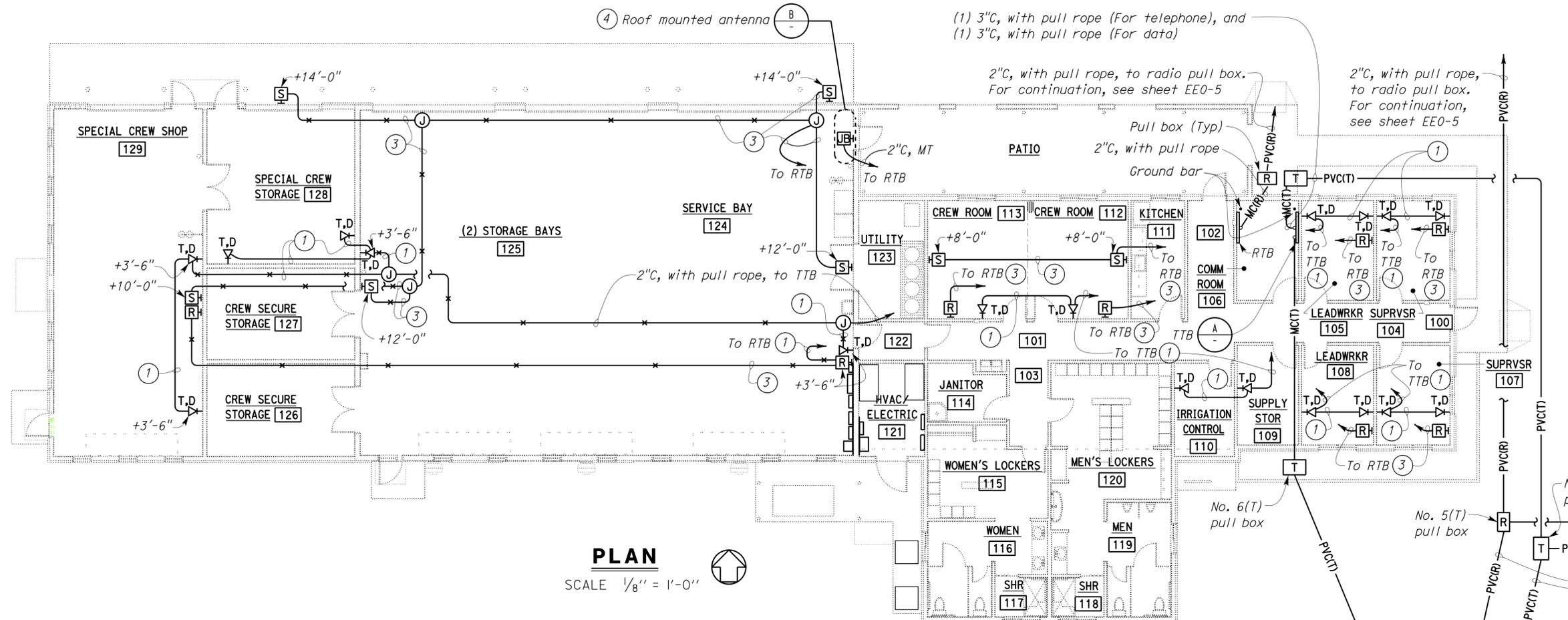
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. 58M5708
POST MILE

EL CENTRO MAINTENANCE FACILITY
MAINTENANCE OFFICE/EQUIPMENT
PANEL SCHEDULES

SHEET EE1-9 OF

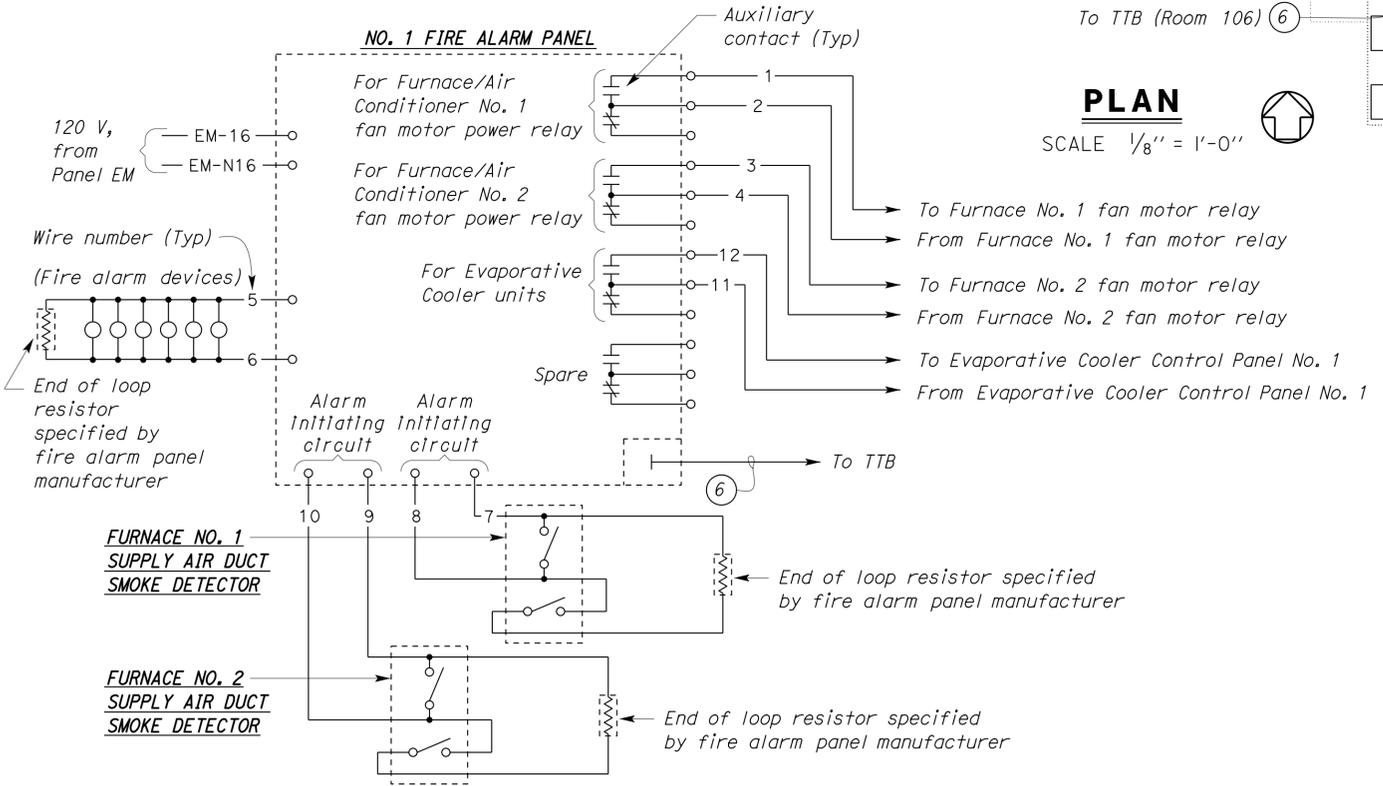
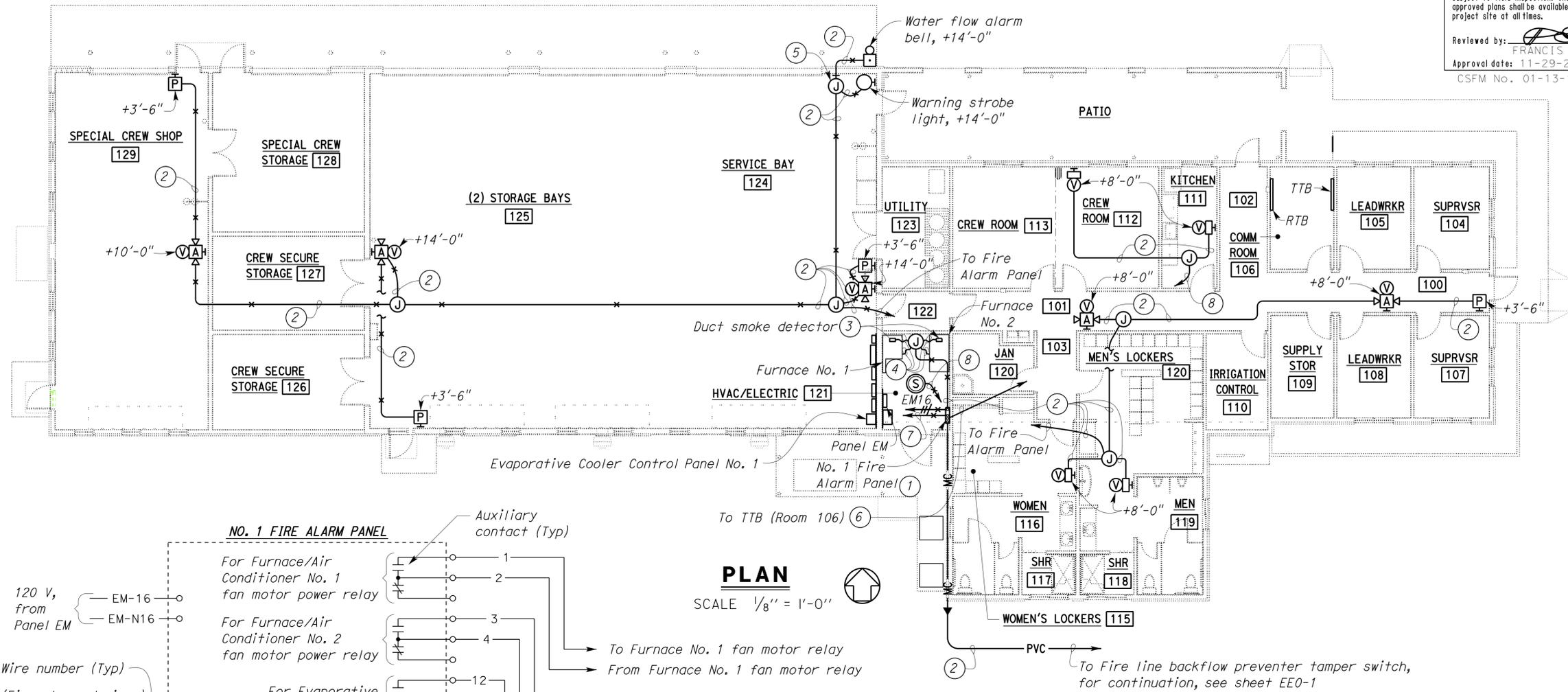


THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY Baldev S. Dehal	CHECKED Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 58M5708	EL CENTRO MAINTENANCE FACILITY		SHEET EE1-10
DETAILS BY Kathl Andreasen	CHECKED Baldev S. Dehal		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE	MAINTENANCE OFFICE/EQUIPMENT	COMMUNICATION PLAN	OF
QUANTITIES BY Baldev S. Dehal	CHECKED Tech Ngov		UNIT PROJECT NUMBER & PHASE 3597 11000000351	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		

TAEMWW Imperial Rev. 7/10 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT PROJECT NUMBER & PHASE 3597 11000000351 DISREGARD PRINTS BEARING EARLIER REVISION DATES 3/9/09 12/4/13 1/28/10 2/7/10 4/16/10 6/24/10 12/31/10 2/25/13 9/13/13

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		322	354
CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: FRANCIS SOLICH Approval date: 11-29-2013 CSFM No. 01-13-11-0025			Tommy F. Lee REGISTERED ELECTRICAL ENGINEER DATE 12-4-13 PLANS APPROVAL DATE The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.		
Notes: 1 For wiring see "FIRE ALARM PANEL WIRING DIAGRAM", this sheet. All field wires or cables shall have wire numbers as shown, and/or on approved submittal drawings. 2 3/4" C, with wires and/or cable, as recommended by the Fire Alarm Panel manufacturer. 3 For location and mounting detail, see 23 M13-6. 4 1/2" C, Flex, with wires and/or cable, as recommended by the Fire Alarm Panel manufacturer. 5 Junction box for supervisory switch and water flow indicator. Provide 1/2" C, Flex, with wire and/or cable, as recommended by the Fire Alarm Panel manufacturer, to connect each to supervisory switch and water flow indicator. For supervisory switch and water flow indicator location on fire sprinkler system riser, see 12 M13-3. 6 3/4" C, with telephone cable, as recommended by the Fire Alarm Panel manufacturer, for monitoring. 7 1/2" C, 2#12 (Wire #11, 12), 1#12G, to Evaporative Cooler Control Panel. 8 3/4" C, with wires and/or cable, as recommended by the Fire Alarm Panel manufacturer, to No. 1 Fire Alarm Panel.					



FIRE ALARM PANEL WIRING DIAGRAM

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

- General Notes:**
- A. The fire alarm system shall conform to Article 760 of the California Electrical Code. Installation of the fire alarm system shall not be started until detailed plans and specifications, including California State Fire Marshal (CSFM) listing numbers for each component of system, have been approved by the California State Fire Marshal. Upon completion of the installation of the fire alarm system, a satisfactory test of the entire system shall be made in the presence of the enforcing agency.
 - B. Detectors shall not be installed until the cleanup of all trades is completed and final as per 2010 NFPA 72 Section 17.7.1.11. Before requesting final approval of the installation, the installing contractor shall furnish a written statement to the State Fire Marshal to the effect that the system has been installed in accordance with approved plans and completely tested in accordance with manufacturer's specifications and appropriate NFPA requirements. (2010 NFPA 72 Section 10.18.1.3)
 - C. Please Note: Any reference to the fire alarm system on these plans, including locations of devices, have not been reviewed or approved by CSFM. Any reference to the fire alarm system is deferred for approval by the CSFM following receipt of detailed plans.
 - D. Location of fire alarm devices are shown arbitrary only. Exact location and number of devices shall be deferred for approval by the State Fire Marshall upon submittal of shop drawings.

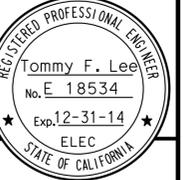
DESIGN	BY Baldev S. Dehal	CHECKED Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	EL CENTRO MAINTENANCE FACILITY	SHEET
DETAILS	BY Kathl Andreasen	CHECKED Baldev S. Dehal			58M5708	MAINTENANCE OFFICE/EQUIPMENT FIRE ALARM PLAN	EE1-11
QUANTITIES	BY Baldev S. Dehal	CHECKED Tech Ngov			POST MILE		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3				UNIT PROJECT NUMBER & PHASE 3597 11000000351	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
TAEWW Imperial Rev. 7/10				EA 076701	2/28/10 12/4/13 6/28/10 7/7/10 9/15/10 9/23/10 12/3/10 2/25/13 9/13/13	ee1_11.dgn	

General Notes:

- A. Conduit system for intrusion alarm system is not shown. See Special Provisions.
- B. Submit conduit and conductor layout for approval prior to installation.
- C. For intrusion alarm zoning schedule, see table on sheet EE1-13.
- D. Electrified lock set and electrified hinge are Architectural items, and are shown on this sheet for information only. Provide separate power supplies for the door hardware, if required by door manufacturer. Monitor switch for exit panic bars are not shown. Connect as required. For door hardware details, see sheet A0-6 and Special Provisions.

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		323	354

Tommy F. Lee
 REGISTERED ELECTRICAL ENGINEER
 12-4-13
 DATE



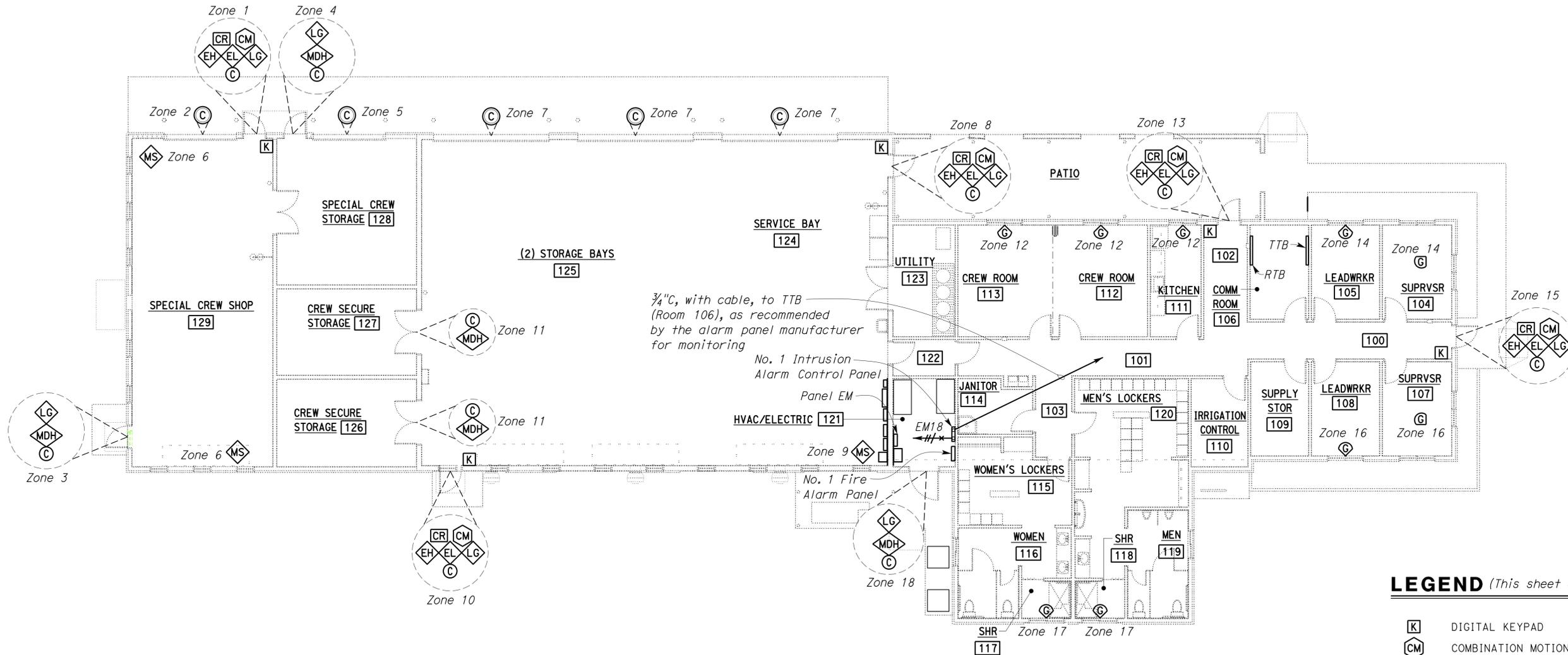
01-06-14
 PLANS APPROVAL DATE

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CALIFORNIA STATE FIRE MARSHAL

APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by:
 FRANCIS SOLICH
 Approval date: 11-29-2013
 CSFM No. 01-13-11-0025



PLAN

SCALE 1/8" = 1'-0"



LEGEND (This sheet only)

- DIGITAL KEYPAD
- COMBINATION MOTION DETECTOR - MICROWAVE/PASSIVE INFRARED
- MAGNETIC CONTACT SWITCH-VEHICLE
- MAGNETIC CONTACT SWITCH-PEDESTRIAN
- DIGITAL CARD READER
- ELECTRIFIED DOOR HINGE
- ELECTRIFIED LOCK SET
- MECHANICAL DOOR HARDWARE
- LOCK GUARD
- MOTION DETECTOR
- GLASS BREAK DETECTOR

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY Baldev S. Dehal	CHECKED Tech Ngov
DETAILS	BY Kathl Andreasen	CHECKED Baldev S. Dehal
QUANTITIES	BY Baldev S. Dehal	CHECKED Tech Ngov

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. 58M5708
 POST MILE

EL CENTRO MAINTENANCE FACILITY
 MAINTENANCE OFFICE/EQUIPMENT
INTRUSION ALARM PLAN

SHEET **EE1-12** OF



REVISION DATES (PRELIMINARY STAGE ONLY)									
2/18/10	3/7/10	3/7/10	4/1/10	6/24/10	7/7/10	12/3/10	2/25/13	9/15/13	12/4/13

INTRUSION ALARM ZONING SCHEDULE				
ZONE	LOCATION	QNTY	DEVICE DESCRIPTION	NOTE
1	SINGLE PEDESTRIAN ACCESS DOOR - ROOM 129 (NORTHWEST END)	1	DIGITAL CARD READER	
		1	MAGNETIC CONTACT SWITCH - PEDESTRIAN	
		1	ELECTRIFIED DOOR HINGE	*
		1	ELECTRIFIED LOCK SET	*
		1	COMBINATION MOTION DETECTOR - MICROWAVE/PASSIVE INFRARED	
		1	LOCK GUARD	*
		1	DIGITAL KEYPAD DEACTIVATES ZONES 1, 2, 3, 4, 5, 6	
2	VEHICLE ACCESS ROLL-UP DOOR - ROOM 128	1	MAGNETIC CONTACT SWITCH - VEHICLE	
3	SINGLE PEDESTRIAN ACCESS DOOR - ROOM 129 (SOUTHWEST ENTRANCE)	1	MAGNETIC CONTACT SWITCH - PEDESTRIAN	
		1	MECHANICAL DOOR HARDWARE	*
		1	LOCK GUARD	*
4	SINGLE PEDESTRIAN ACCESS DOOR - ROOM 128 (NORTHWEST ENTRANCE)	1	MAGNETIC CONTACT SWITCH - PEDESTRIAN	
		1	MECHANICAL DOOR HARDWARE	*
		1	LOCK GUARD	*
		1	LOCK GUARD	*
5	VEHICLE ACCESS ROLL-UP DOOR	1	MAGNETIC CONTACT SWITCH - VEHICLE	
6	MOTION DETECTOR - ROOM 129	2	MOTION DETECTOR	
7	VEHICLE ACCESS ROLL-UP DOORS - ROOM 125	2	MAGNETIC CONTACT SWITCHES - VEHICLE	
	VEHICLE ACCESS ROLL-UP DOOR - ROOM 124	1	MAGNETIC CONTACT SWITCH - VEHICLE	
8	SINGLE PEDESTRIAN ACCESS DOOR - ROOM 124	1	DIGITAL CARD READER	
		1	MAGNETIC CONTACT SWITCH - PEDESTRIAN	
		1	ELECTRIFIED DOOR HINGE	*
		1	ELECTRIFIED LOCK SET	*
		1	COMBINATION MOTION DETECTOR - MICROWAVE/PASSIVE INFRARED	
		1	LOCK GUARD	*
		1	DIGITAL KEYPAD DEACTIVATES ZONES 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18	
9	MOTION DETECTOR - ROOM 124	1	MOTION DETECTOR	
10	SINGLE PEDESTRIAN ACCESS DOOR - ROOM 125 (SOUTHWEST END)	1	DIGITAL CARD READER	
		1	MAGNETIC CONTACT SWITCH - PEDESTRIAN	
		1	ELECTRIFIED DOOR HINGE	*
		1	ELECTRIFIED LOCK SET	*
		1	COMBINATION MOTION DETECTOR - MICROWAVE/PASSIVE INFRARED	
		1	LOCK GUARD	*
11	DOUBLE PEDESTRIAN ACCESS DOOR - ROOM 126	2	MAGNETIC CONTACT SWITCHES - PEDESTRIAN	
	DOUBLE PEDESTRIAN ACCESS DOOR - ROOM 127	1	MECHANICAL DOOR HARDWARE	*
12	GLASS BREAK DETECTOR - ROOM 113	2	MAGNETIC CONTACT SWITCHES - PEDESTRIAN	
	GLASS BREAK DETECTOR - ROOM 112	2	MAGNETIC CONTACT SWITCHES - PEDESTRIAN	
	GLASS BREAK DETECTOR - ROOM 111	1	MECHANICAL DOOR HARDWARE	*
12	GLASS BREAK DETECTOR - ROOM 113	1	GLASS BREAK DETECTOR	
	GLASS BREAK DETECTOR - ROOM 112	1	GLASS BREAK DETECTOR	
	GLASS BREAK DETECTOR - ROOM 111	1	GLASS BREAK DETECTOR	

* PART OF ARCHITECTURAL DOOR HARDWARE.

CALIFORNIA STATE FIRE MARSHAL APPROVED
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by: 
FRANCIS SULICH
Approval date: 11-29-2013
CSFM No. 01-13-11-0025

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		324	354

Tommy F. Lee
REGISTERED ELECTRICAL ENGINEER
12-4-13 DATE
No. E 18534
Exp. 12-31-14
ELEC
STATE OF CALIFORNIA

01-06-14
PLANS APPROVAL DATE

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INTRUSION ALARM ZONING SCHEDULE				
ZONE	LOCATION	QNTY	DEVICE DESCRIPTION	NOTE
13	SINGLE PEDESTRIAN ACCESS DOOR - ROOM 102	1	DIGITAL CARD READER	
		1	MAGNETIC CONTACT SWITCH - PEDESTRIAN	
		1	ELECTRIFIED DOOR HINGE	*
		1	ELECTRIFIED LOCK SET	*
		1	COMBINATION MOTION DETECTOR - MICROWAVE/PASSIVE INFRARED	
		1	LOCK GUARD	*
		1	DIGITAL KEYPAD DEACTIVATES ZONES 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18	
14	GLASS BREAK DETECTOR - ROOM 105	1	GLASS BREAK DETECTOR	
	GLASS BREAK DETECTOR - ROOM 104	1	GLASS BREAK DETECTOR	
15	SINGLE PEDESTRIAN ACCESS DOOR - ROOM 100	1	DIGITAL CARD READER	
		1	MAGNETIC CONTACT SWITCH - PEDESTRIAN	
		1	ELECTRIFIED DOOR HINGE	*
		1	ELECTRIFIED LOCK SET	*
		1	COMBINATION MOTION DETECTOR - MICROWAVE/PASSIVE INFRARED	
		1	LOCK GUARD	*
		1	DIGITAL KEYPAD DEACTIVATES ZONES 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18	
16	GLASS BREAK DETECTOR - ROOM 107	1	GLASS BREAK DETECTOR	
	GLASS BREAK DETECTOR - ROOM 108	1	GLASS BREAK DETECTOR	
17	GLASS BREAK DETECTOR - ROOM 118	1	GLASS BREAK DETECTOR	
	GLASS BREAK DETECTOR - ROOM 117	1	GLASS BREAK DETECTOR	
18	SINGLE PEDESTRIAN ACCESS DOOR - ROOM 121	1	MAGNETIC CONTACT SWITCH - PEDESTRIAN	
		1	MECHANICAL DOOR HARDWARE	*
		1	LOCK GUARD	*

* PART OF ARCHITECTURAL DOOR HARDWARE.

DESIGN BY Baldev S. Dehal	CHECKED Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 58M5708	EL CENTRO MAINTENANCE FACILITY		SHEET EE1-13
DETAILS BY Kathl Andreasen	CHECKED Baldev S. Dehal		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE	MAINTENANCE OFFICE/EQUIPMENT	INTRUSION ALARM ZONING SCHEDULE	
QUANTITIES BY Baldev S. Dehal	CHECKED Tech Ngov		UNIT PROJECT NUMBER & PHASE 3597 11000000351	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		
TAEMWW Imperial Rev. 7/10	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3				7/10/10 6/28/10 7/7/10 12/3/10 2/25/13 9/13/13 12/4/13		ee1_13.dgn

21-JAN-2014 09:06

General Notes:

- A. Separate neutral wire shall be used for each circuit, and each homerun shall be in a separate conduit, unless otherwise shown.
- B. For exact location of all lighting fixtures, see Architectural Reflected Ceiling Plan, sheet A3-3.
- C. All conduits shall be threaded rigid steel conduits. Paint all exposed conduits, conduit supports, and hardware to match the background paint color.
- D. Installation shall meet Class 1, Division 2 requirements of National Electrical Code.

CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *Francis Solich*
 Approval date: 11-29-2013
 CSFM No. 01-13-11-0025

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		325	354

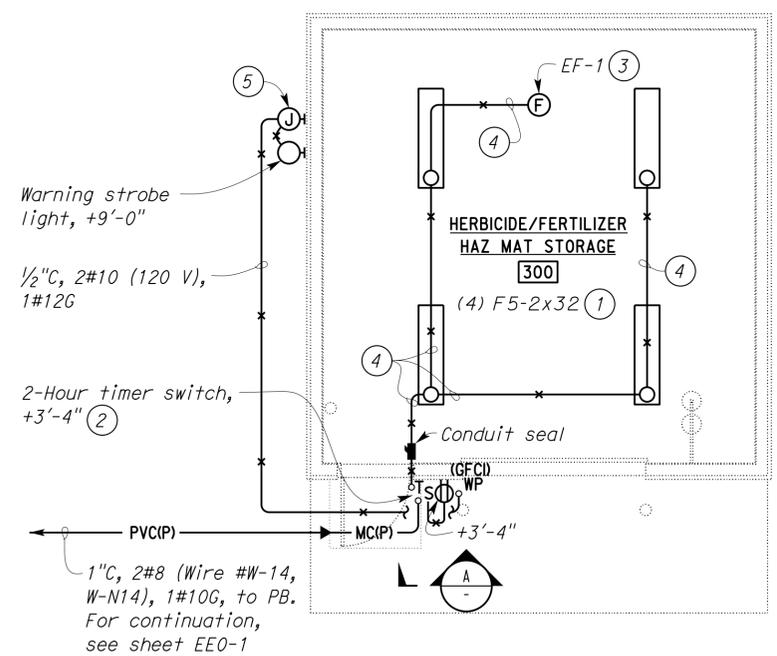
Tommy F. Lee
 REGISTERED ELECTRICAL ENGINEER DATE 12-4-13
 No. E 18534
 Exp. 12-31-14
 ELEC
 STATE OF CALIFORNIA

01-06-14
 PLANS APPROVAL DATE

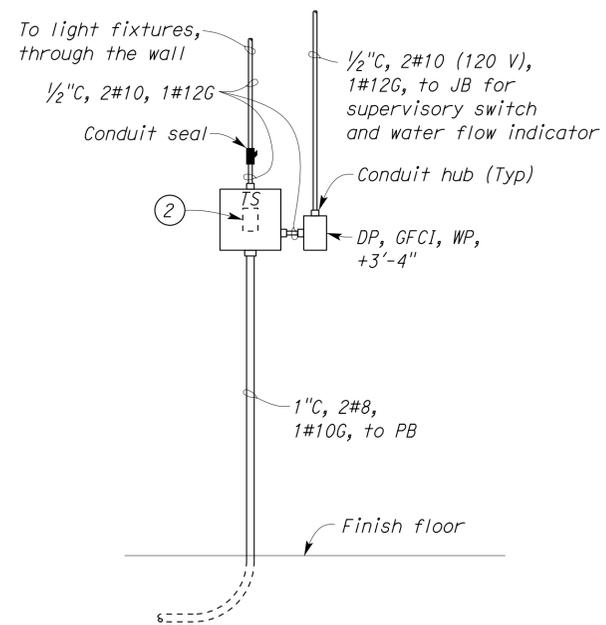
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Notes:

- 1 Surface mounted.
- 2 Install timer inside a 8"H x 8"W x 6"D surface mounted NEMA-3R enclosure with side hinged door. Splice #8 AWG neutral conductor from Panel W to #10 AWG neutral conductor to lights.
- 3 For location and mounting details, see sheet M3-1.
- 4 1/2"C, 2#10, 1#12G.
- 5 Junction box for supervisory switch and water flow indicator. Provide 1/2" flexible conduit, with wire and/or cable as recommended by Fire Alarm Panel manufacturer, to connect each to supervisory switch and water flow indicator. For supervisory switch and water flow indicator location on fire sprinkler system riser, see M3-3.



PLAN
 SCALE 1/4" = 1'-0"



A ELEVATION
 SCALE 1" = 1'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY Baldev S. Dehal	CHECKED Tech Ngov
DETAILS	BY Kathl Andreasen	CHECKED Baldev S. Dehal
QUANTITIES	BY Baldev S. Dehal	CHECKED Tech Ngov

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	58M5708	EL CENTRO MAINTENANCE FACILITY
POST MILE		
HERBICIDE/FERTILIZER STORAGE		POWER AND LIGHTING PLAN

SHEET
EE3-1

TAEMWW Imperial Rev. 7/10

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0	1	2	3
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UNIT PROJECT NUMBER & PHASE 3597 11000000351

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
	3/9/09 9/23/09 1/4/10 4/6/10 6/8/10 7/8/10 12/3/10 2/25/13 9/15/13 12/4/13	

ee3_01.dgn

General Notes:

- A. Separate neutral wire shall be used for each circuit, and each homerun shall be in a separate conduit, unless otherwise shown.
- B. Provide floor covering in front of Panel G, Panel EMF, and Leak Detection Panel.
- C. For exact location of Vehicle rise facility and Fuel island, see Water and Waste water sheets, and Architectural sheets.
- D. For Panel schedule of Panel G, see sheet EE4-2.

Notes:

- ① All conduits shall be threaded rigid steel conduits, and conductors shall be XHHW-2 type conductors. Use weathertight hubs to terminate conduits to any junction box, outlet box, or light fixture. Paint all exposed conduit, conduit supports, and hardware to match the background paint color.
- ② Mount light fixture on the purlin. Provide back mounting plate or bracket as required.

Notes (Continue):

- ③ Mount sign above shutoff switch. For sign detail, see EE4-2.
- ④ Install timer switch inside a 8"H x 8"W x 6"D surface mounted NEMA-3R enclosure with side hinged door.
- ⑤ For location and mounting details, see sheet M4-1.
- ⑥ Surface mounted.
- ⑦ For continuation, see sheet EE0-1.
- ⑧ For continuation, see sheet EE0-5.
- ⑨ Stub up conduit adjacent and to suit Vacuum cleaner unit furnished.

Notes (Continue):

- ⑩ Sensor turn "ON" lights and exhaust fan.
- ⑪ 1"C, sludge sensor cable. Provide sensor cables from sensor units to the monitoring systems without splicing.
- ⑫ Sludge monitoring system inside NEMA 3R junction box mounted on structural column at MH-3'-4". Label the junction box as "SLUDGE MONITORING SYSTEM". Install GFCI duplex receptacle inside the junction box.

CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: FRANCIS SOLICH
 Approval date: 11-29-2013
 CSFM No. 01-13-11-0025

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		326	354

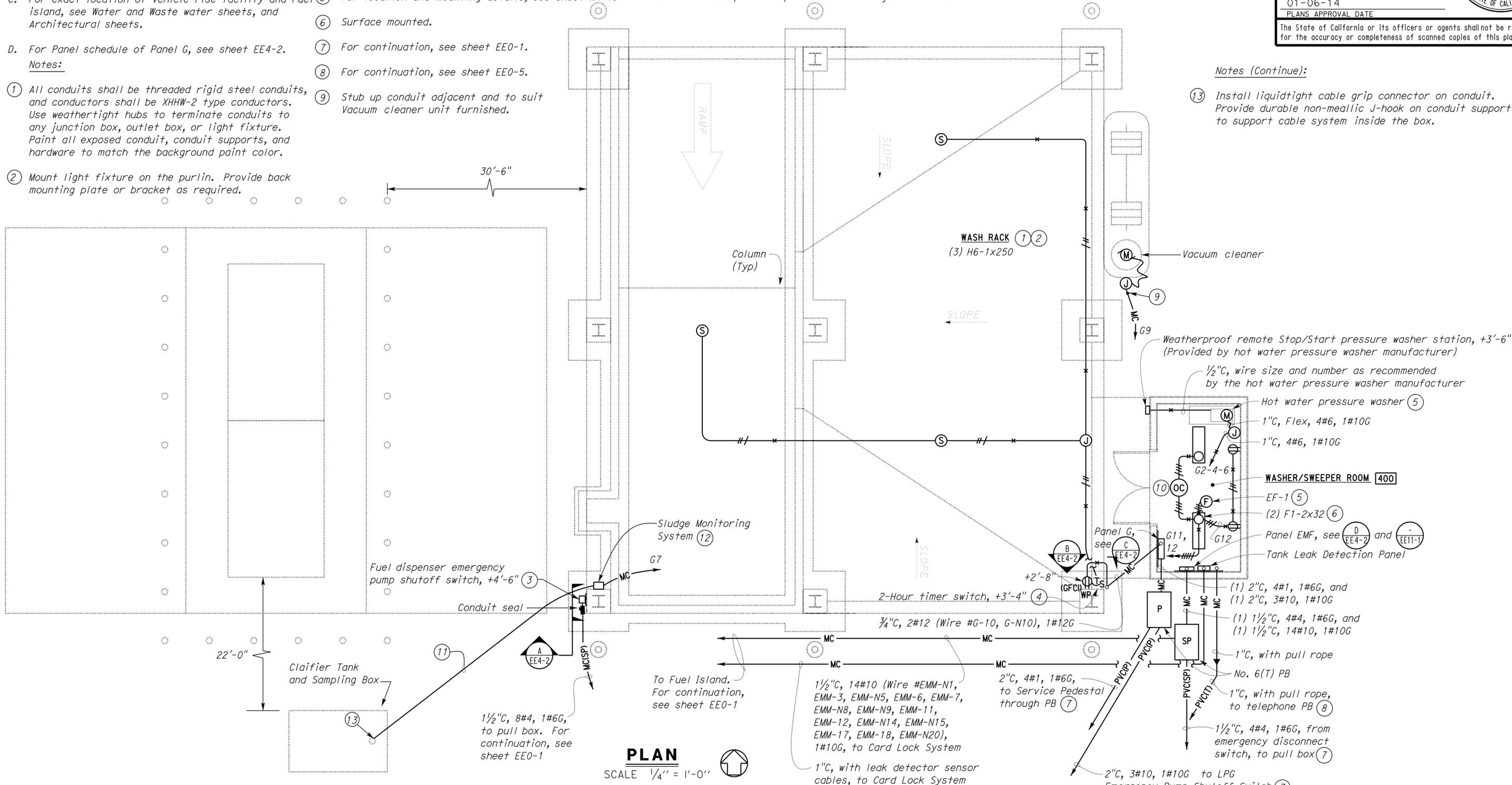
Tommy F. Lee
 REGISTERED ELECTRICAL ENGINEER DATE 12-4-13
 No. E 18534
 Exp. 12-31-14
 ELEC
 STATE OF CALIFORNIA

01-06-14
 PLANS APPROVAL DATE

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Notes (Continue):

- ⑬ Install liquidtight cable grip connector on conduit. Provide durable non-metallic J-hook on conduit support to support cable system inside the box.



PLAN
 SCALE 1/4" = 1'-0"

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DESIGN	BY Baldev S. Dehal	CHECKED Tech Ngov
DETAILS	BY Kathl Andreasen	CHECKED Baldev S. Dehal
QUANTITIES	BY Baldev S. Dehal	CHECKED Tech Ngov

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE No.	58M5708	POST MILE	
EL CENTRO MAINTENANCE FACILITY		POWER AND LIGHTING PLAN	
VEHICLE RINSE FACILITY			

UNIT PROJECT NUMBER & PHASE	3597 1100000351	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
EA 076701			3/7/09, 12/4/13, 2/24/10, 4/7/10, 6/24/10, 6/7/10, 7/7/10, 12/3/10, 2/25/13	EA4-01.dgn

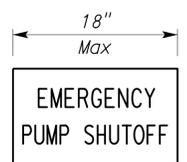
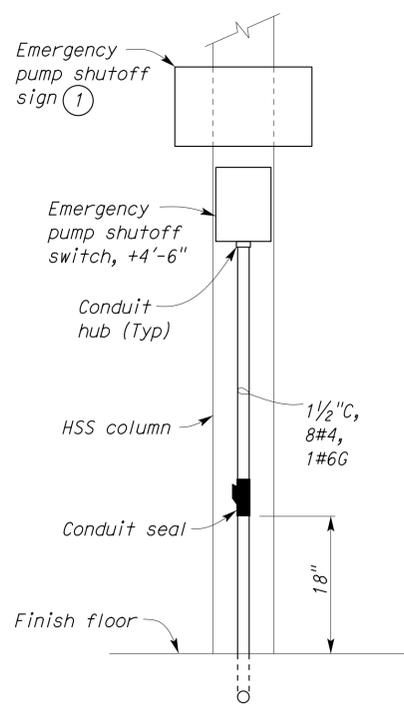
DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		327	354

Tommy F. Lee		12-4-13
REGISTERED ELECTRICAL ENGINEER	DATE	

01-06-14
PLANS APPROVAL DATE

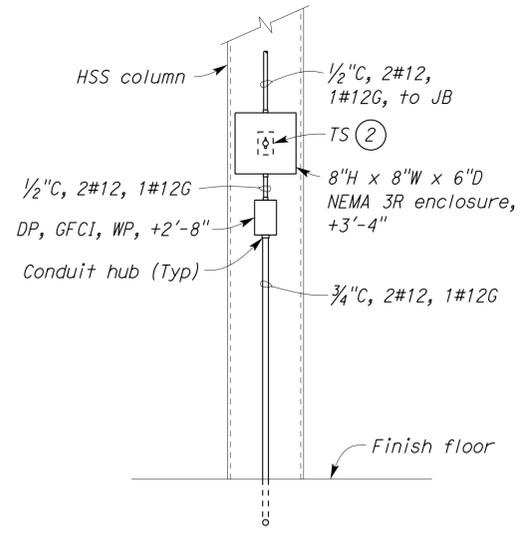
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 Approval date: 11-29-2013
 CSFM No. 01-13-11-0025

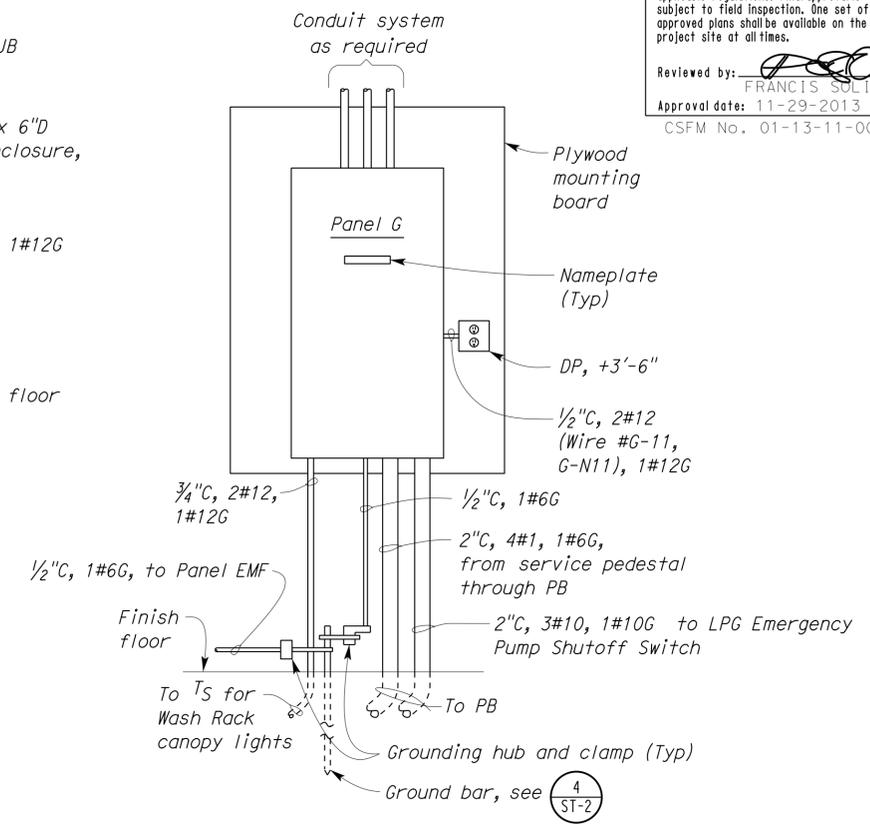


Note:
 Sign shall be 16 gauge baked enamel steel with red letters on white background. Letters shall be 2" high. Sign shall be fastened with at least six mechanical fasteners. Adhesive shall not be used.

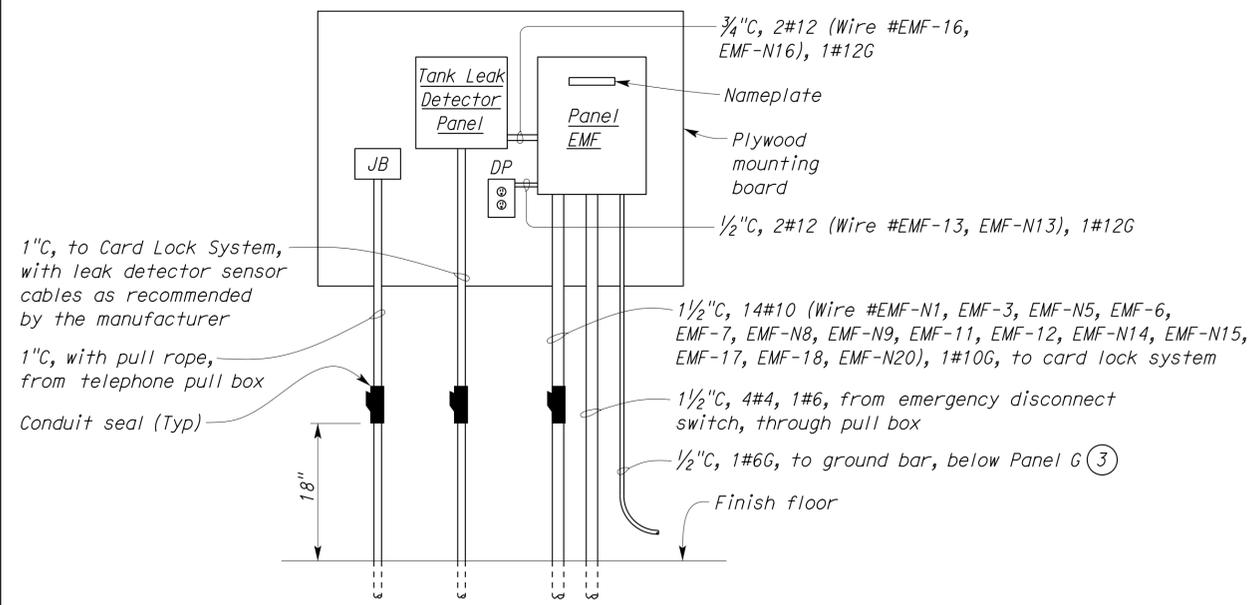
1 SIGN DETAIL
 NO SCALE



B ELEVATION
 SCALE 1" = 1'-0"



C ELEVATION
 SCALE 1" = 1'-0"



D ELEVATION
 SCALE 1" = 1'-0"

MAIN: 100-AMPERE CB
 VOLTS: 120/208 V, 3 Ø, 4-WIRE

PANEL G

FEEDER SIZE: 4#1 AWG
 LOCATION: WASHER/SWEEPER RM

DESCRIPTION	AMPERES			BRK	CKT	AMPERES			BRK	CKT	DESCRIPTION
	A	B	C			A	B	C			
SPARE	---	---	---	60/3	1	2	25.3	---	60/3	4	HOT WATER PRESSURE WASHER
					3	6	25.3			5	
SLUDGE MONITORING SYSTEM	2			20/1	7	8	---		20/1	20/1	SPARE
VACUUM CLEANER		10.0		20/1	9	10	9		20/1	12	LIGHTS & RECEP - WASH RACK CANOPY
LIGHTS & RECEP - WASHER/SWEEPER RM			2.5	20/1	11	12		3.0	20/1	16	RECEP - WASHER/SWEEPER ROOM
SPARE	---			20/1	13	14	6			18	
SPACE		---		---	15	16	6		20/3		LPG TANK PUMP MOTOR
SPACE			---	---	17			6			

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
33.3	50.3	36.8	

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY Baldev S. Dehal	CHECKED Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58M5708	EL CENTRO MAINTENANCE FACILITY		SHEET EE4-2	
DETAILS BY Kathl Andreasen	CHECKED Baldev S. Dehal		PROJECT NUMBER & PHASE 3597 11000000351	POST MILE	VEHICLE RINSE FACILITY	DETAILS		OF
QUANTITIES BY Baldev S. Dehal	CHECKED Tech Ngov		UNIT PROJECT NUMBER & PHASE 3597 11000000351	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF

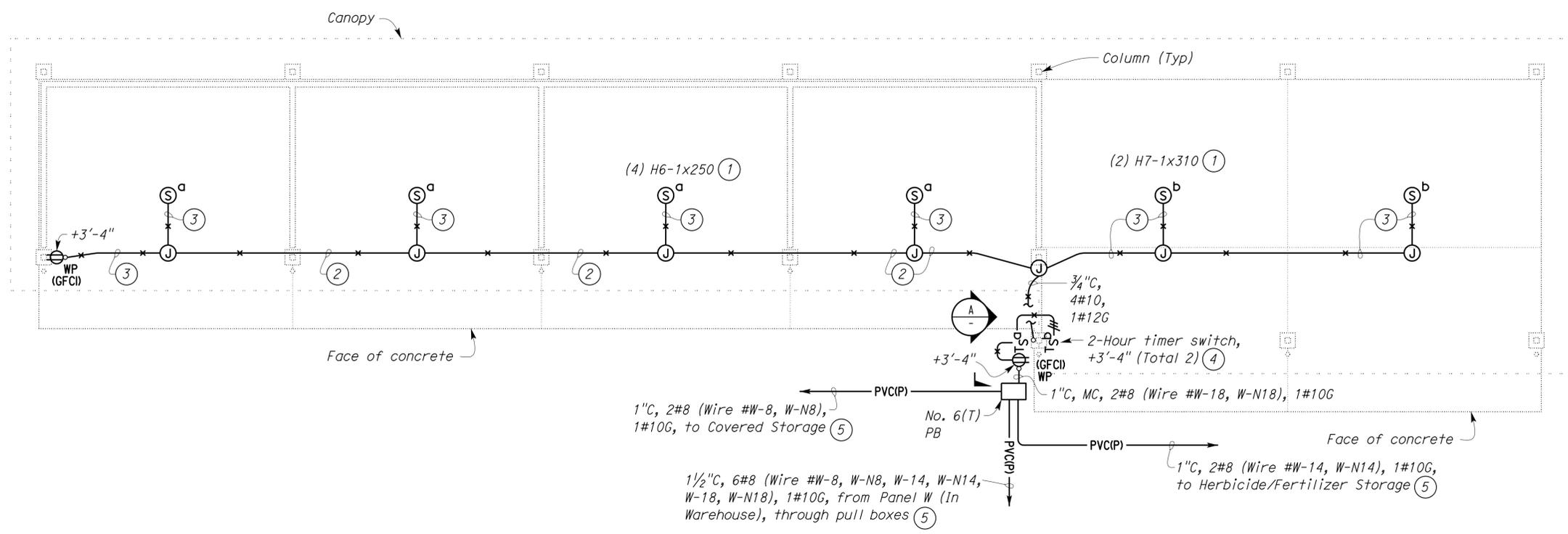
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

REVISION DATES (PRELIMINARY STAGE ONLY): 3/18/09, 12/4/13, 2/24/10, 4/7/10, 6/2/10, 6/7/10, 7/7/10, 12/3/10, 2/25/13

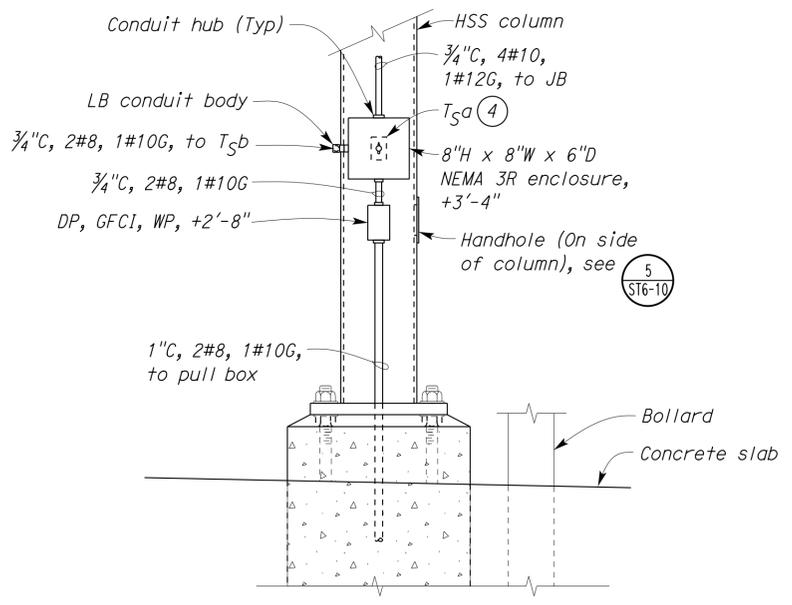
TAEMWW Imperial Rev. 7/10

EA 076701

ee4_02.dgn



PLAN
SCALE 1/8" = 1'-0"



A ELEVATION
SCALE 1" = 1'-0"

- General Notes:**
- All conduits shall be threaded rigid steel conduits, and conductors shall be XHHW-2 type conductors.
 - Use weathertight hubs to terminate conduits to any junction box, outlet box, or light fixture.
 - Paint all exposed conduit, conduit supports, and hardware to match the background paint color.

- Notes:**
- Mount light fixture on the purlin. Provide back mounting plate or bracket as required.
 - 3/4" C, 3#10, 1#12G.
 - 1/2" C, 2#10, 1#12G.
 - Install timer switch inside a 8"H x 8"W x 6"D surface mounted NEMA-3R enclosure with side hinged door. Splice #8 AWG neutral conductor from Panel W to 2#10 neutral conductors to lights junction box.
 - For continuation, see sheet EE0-1.

CALIFORNIA STATE FIRE MARSHAL APPROVED

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: *[Signature]*
FRANCIS SOLITCH
Approval date: 11-29-2013
CSFM No. 01-13-11-0025

ADDITIVE BID

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY Baldev S. Dehal	CHECKED Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58M5708	EL CENTRO MAINTENANCE FACILITY		SHEET EE6-1
	DETAILS	BY Kathl Andreasen			CHECKED Baldev S. Dehal	POST MILE	COVERED TRASH/ MATERIAL BINS	
QUANTITIES	BY Baldev S. Dehal	CHECKED Tech Ngov	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 11000000351	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	
			0 1 2 3	EA 076701	3/7/09 12/4/13 4/7/10 6/7/10 7/7/10 12/3/10 2/25/13 9/13/13			

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CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *[Signature]*
 FRANCIS SOLICH
 Approval date: 11-29-2013
 CSFM No. 01-13-11-0025

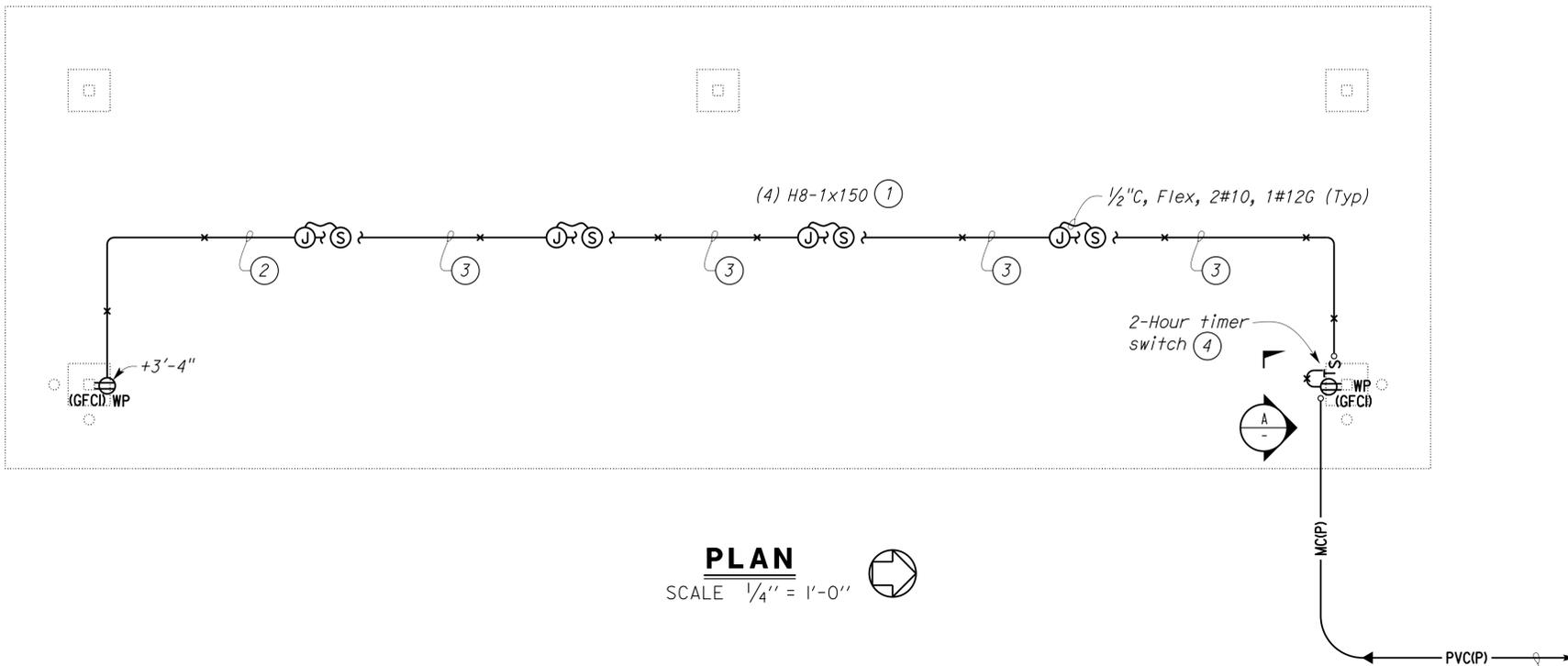
DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		329	354

Tommy F. Lee
 REGISTERED ELECTRICAL ENGINEER
 DATE 12-4-13

Tommy F. Lee
 No. E 18534
 Exp. 12-31-14
 ELEC
 STATE OF CALIFORNIA

01-06-14
 PLANS APPROVAL DATE

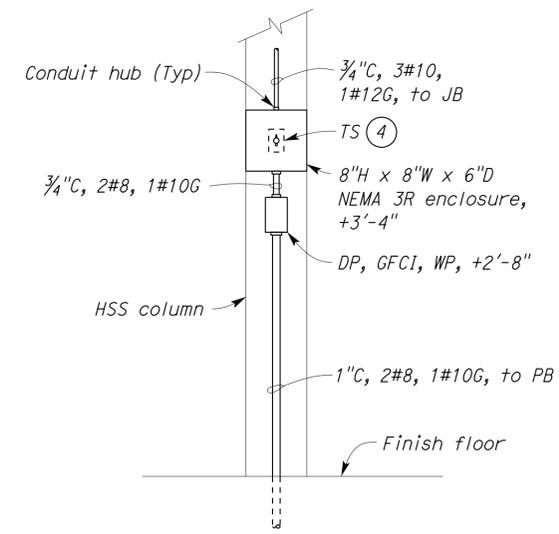
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



PLAN
 SCALE 1/4" = 1'-0"

- General Notes:**
- All conduits shall be threaded rigid steel conduits, and conductors shall be XHHW-2 type conductors.
 - Use weathertight hubs to terminate conduits to any junction box, outlet box, or light fixture.
 - Paint all exposed conduit, conduit supports, and hardware to match the background paint color.

- Notes:**
- Mount light fixture on the W14x30 girder. Provide back mounting plate or bracket as required.
 - 1/2" C, 2#10, 1#12G.
 - 3/4" C, 3#10, 1#12G.
 - Install timer switch inside a 8"H x 8"W x 6"D surface mounted NEMA-3R enclosure with side hinged door. Splice #8 AWG neutral conductor from Panel W to #10 AWG neutral conductors to lights junction box.



A ELEVATION
 SCALE 1" = 1'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <i>Baldev S. Dehal</i> CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58M5708	EL CENTRO MAINTENANCE FACILITY		SHEET EE7-1						
			POST MILE	COVERED STORAGE	POWER AND LIGHTING PLAN	OF						
DETAILS BY <i>Kathl Andreasen</i> CHECKED <i>Baldev S. Dehal</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3597 11000000351	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)								
QUANTITIES BY <i>Baldev S. Dehal</i> CHECKED <i>Tech Ngov</i>	0 1 2 3	EA 076701	→	3/7/09	11/23/09	4/7/10	6/2/10	7/7/10	12/3/10	2/25/13	9/13/13	12/4/13

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DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		330	354

Tommy F. Lee		12-4-13
REGISTERED ELECTRICAL ENGINEER	DATE	

01-06-14	
PLANS APPROVAL DATE	

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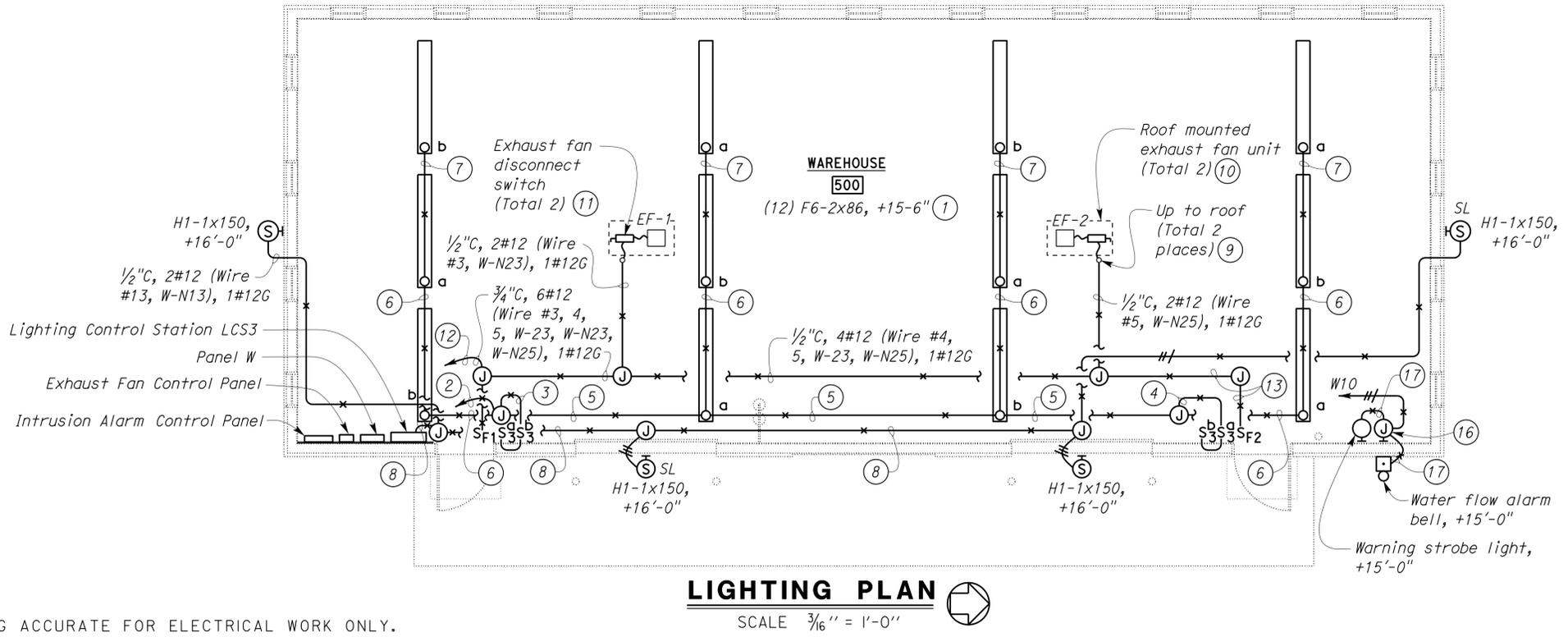
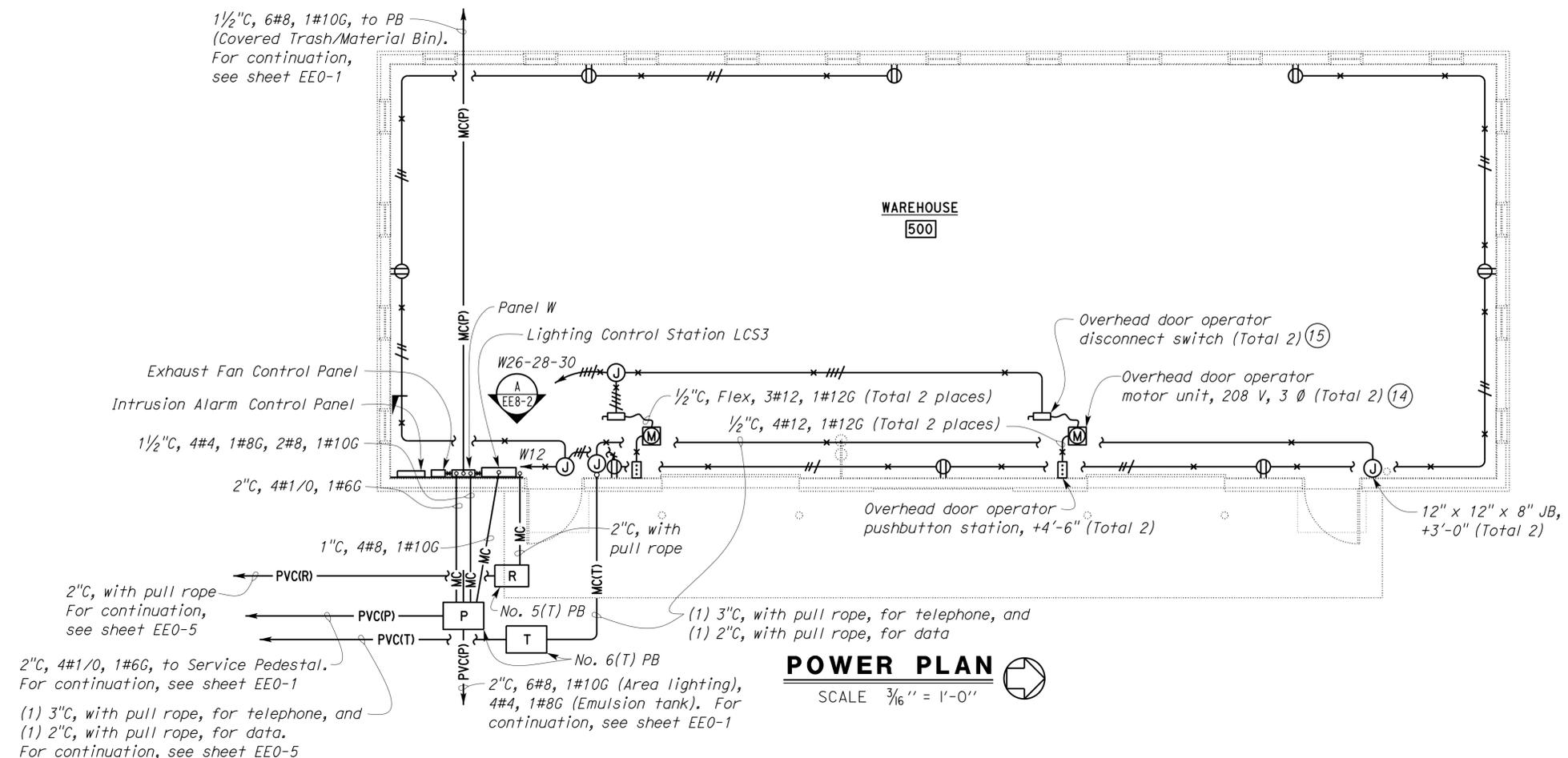
CALIFORNIA STATE FIRE MARSHAL APPROVED
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Reviewed by: FRANCIS SULICH
Approval date: 11-29-2013
CSFM No. 01-13-11-0025



- General Notes:**
- Separate neutral wire shall be used for each circuit, and each homerun shall be in a separate conduit, unless otherwise shown.
 - For exact location of all lighting fixtures, see Architectural Reflected Ceiling Plans, sheet A8-5.
 - All receptacles shall be mounted +3'-6".
 - Location shown for the overhead door operators are for illustration only. Exact location depends upon items furnished. Contractor shall provide any additional conduits and wires not shown, but necessary, for the automatic operation of the overhead doors.
 - Provide floor covering in front of Panel W, LCS3, Exhaust Fan Control Panel, and Intrusion Alarm Control Panel.

- Notes:**
- Stem mounted.
 - 1/2"C, 2#10 (Wire #1, W-N1), 1#12G, to Lighting Control Station LCS3.
 - 3/4"C, 5#10, 1#12G.
 - 3/4"C, 6#10, 1#12G.
 - 3/4"C, 7#10, 1#12G.
 - 1/2"C, 3#10, 1#12G.
 - 1/2"C, 2#10, 1#12G.
 - 1/2"C, 4#12 (Wire #13, 17, W-N13, W-N17), 1#12G.
 - Install conduit flashing as required.
 - For mounting and location, see sheet M8-1.
 - Supplied by the fan manufacturer. Install under the fan hood.
 - To Exhaust Fan Control Panel.
 - 1/2"C, 2#12 (Wire #W-23, 4), 1#12G.
 - For mounting location and details, see sheet A8-7.
 - Mount disconnect on the wall, next to overhead door operator motor unit.
 - Junction box for supervisory switch and water flow indicator. Provide 1/2" flexible conduit, with wire or cable as recommended by Fire Alarm Panel manufacturer, to connect each to supervisory switch and water flow indicator. For supervisory switch and water flow indicator location on fire sprinkler system riser, see sheet M13-3.
 - 1/2"C, with wires or cable, as recommended by the Fire Alarm Panel manufacturer.



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DESIGN BY Baldev S. Dehal CHECKED Tech Ngov	DETAILS BY Kathl Andreasen CHECKED Baldev S. Dehal	QUANTITIES BY Baldev S. Dehal CHECKED Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58M5708	EL CENTRO MAINTENANCE FACILITY				SHEET EE8-1
					POST MILE	WAREHOUSE	POWER AND LIGHTING PLAN				SHEET OF
			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0	1	2	3	REVISION DATES (PRELIMINARY STAGE ONLY)		

UNIT PROJECT NUMBER & PHASE 3597 11000000351
DISREGARD PRINTS BEARING EARLIER REVISION DATES

3/7/05	2/25/13	9/15/13	12/4/13	6/2/10	6/7/10	7/7/10	9/7/10	12/3/10
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EA 076701

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		331	354

Tommy F. Lee
REGISTERED ELECTRICAL ENGINEER
DATE 12-4-13

Tommy F. Lee
No. E 18534
Exp. 12-31-14
ELEC
STATE OF CALIFORNIA

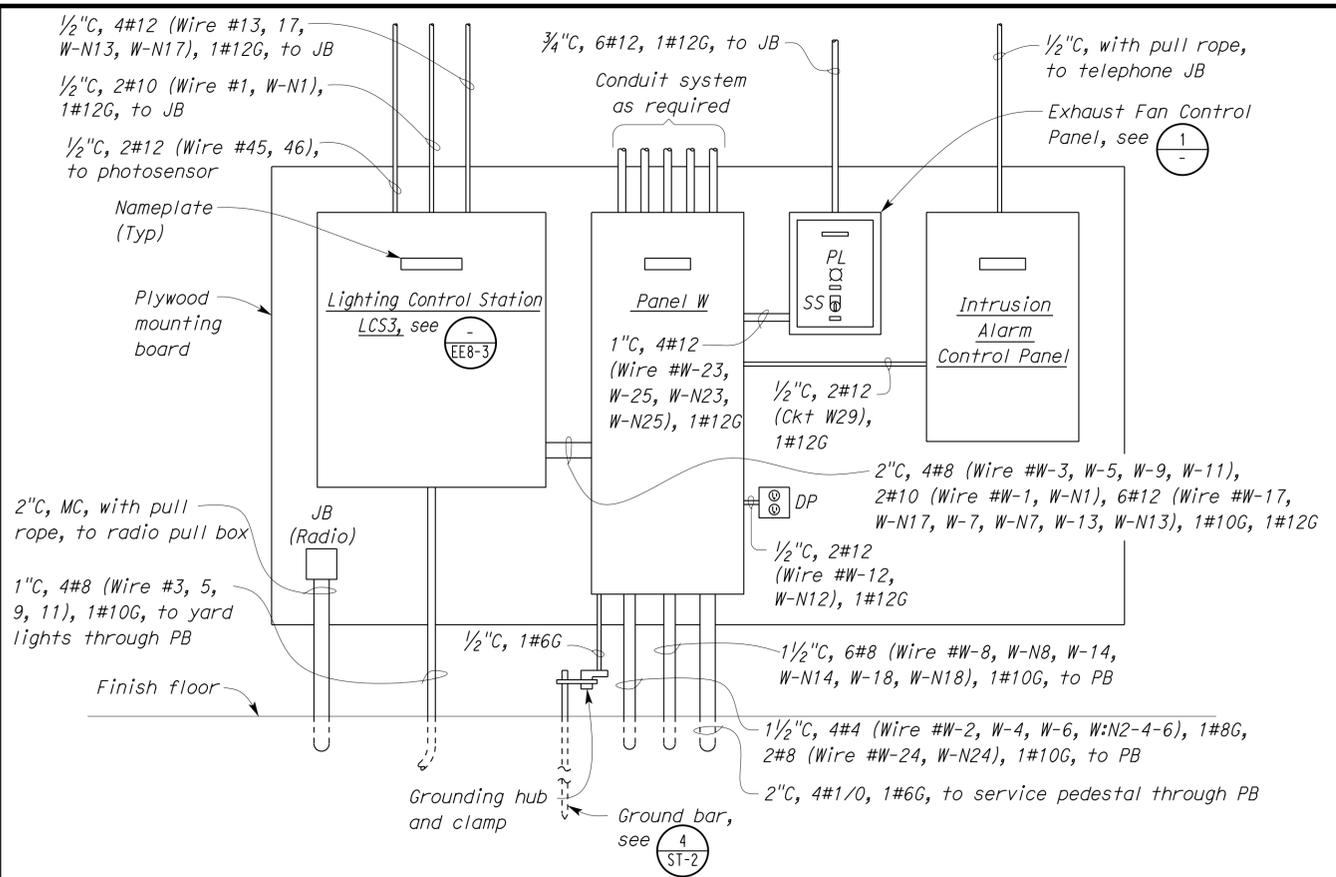
01-06-14
PLANS APPROVAL DATE

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CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: FRANCIS SULICH
Approval date: 11-29-2013
CSFM No. 01-13-11-0025



A ELEVATION
SCALE 1" = 1'-0"

MAIN: 150-AMPERE CB
VOLTS: 120/208 V, 3 Ø, 4-WIRE

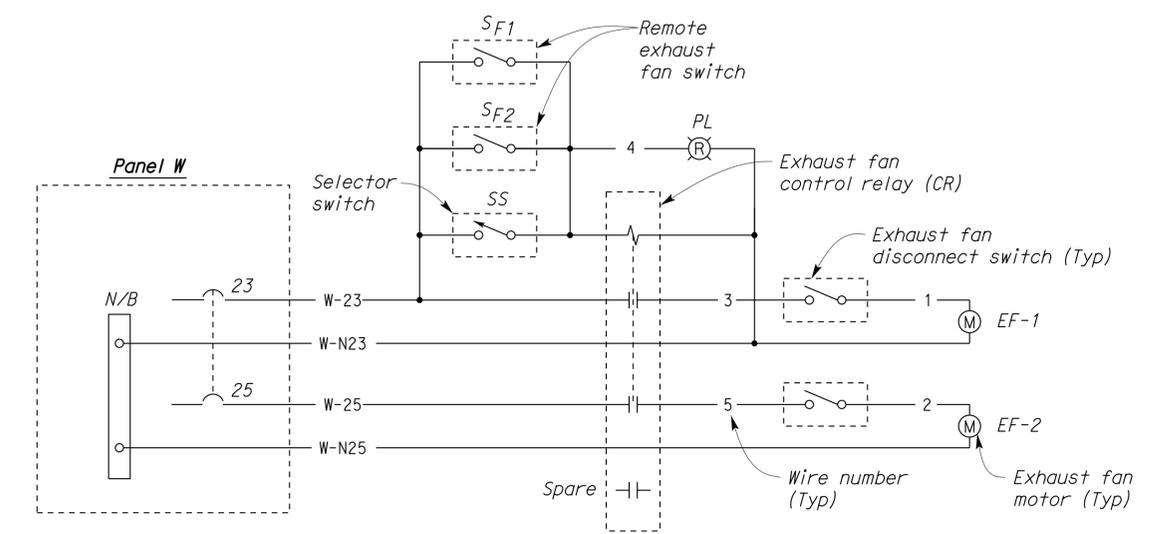
PANEL W

FEEDER SIZE: 4#1/0 AWG
LOCATION: WAREHOUSE

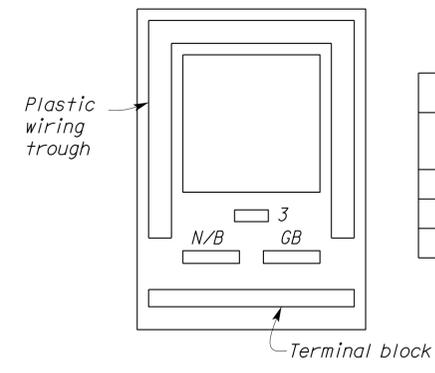
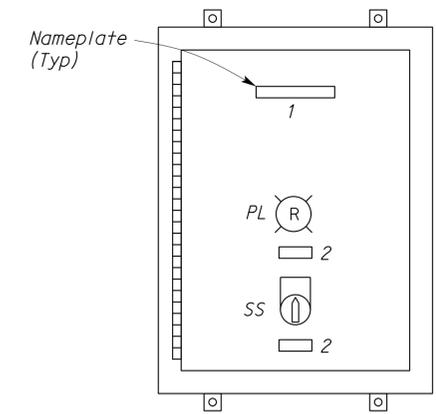
DESCRIPTION	AMPERES			BRK	CKT	A	B	C	CKT	BRK	AMPERES			DESCRIPTION
	A	B	C								A	B	C	
LIGHTS - INTERIOR WAREHOUSE	17.2			30/1	1				2		25.0			EMULSION TANK
LIGHTS - SECURITY YARD		6.0		20/2	3				4	50/3	25.0			
LIGHTING CONTROL STATION LCS3	1.0			20/1	7				8	30/1	9.4			LIGHTS & RECEPT - COVERED STORAGE BUILDING
YARD LIGHTS		6.0	20/2	9					10	20/1	1.0 *			SUPERVISORY SWITCH & WATER FLOW INDICATOR
LIGHTS - EXTERIOR WAREHOUSE	3.2			20/1	13				14	20/1	5.0			HERBICIDE/FERTILIZER BLDG
SPARE				20/1	15				16	20/1				SPARE
LIGHTS - EXTERIOR WAREHOUSE SECURITY				20/1	17				18	30/1			19.0	LIGHTS & RECEPT - COVERED TRASH/MATERIAL BINS BLDG
SPARE				20/1	19				20	30/1				SPARE
SPARE				20/1	21				22	20/1				SPARE
EXHAUST FAN CONTROL & EXHAUST FANS #1 & #2	5.8		5.8	15/2	23				24	20/1			6.2	LIGHTS & RECEPT - SAND RACK
SPARE				20/1	27				28	15/3			4.0	
INTRUSION ALARM PANEL				20/1	29				30				4.0	

* INSTALL LOCKING MECHANISM FOR THIS CIRCUIT BREAKER.

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
70.6	42.0	88.7	



EXHAUST FANS SCHEMATIC
NO SCALE



NAMEPLATE SCHEDULE

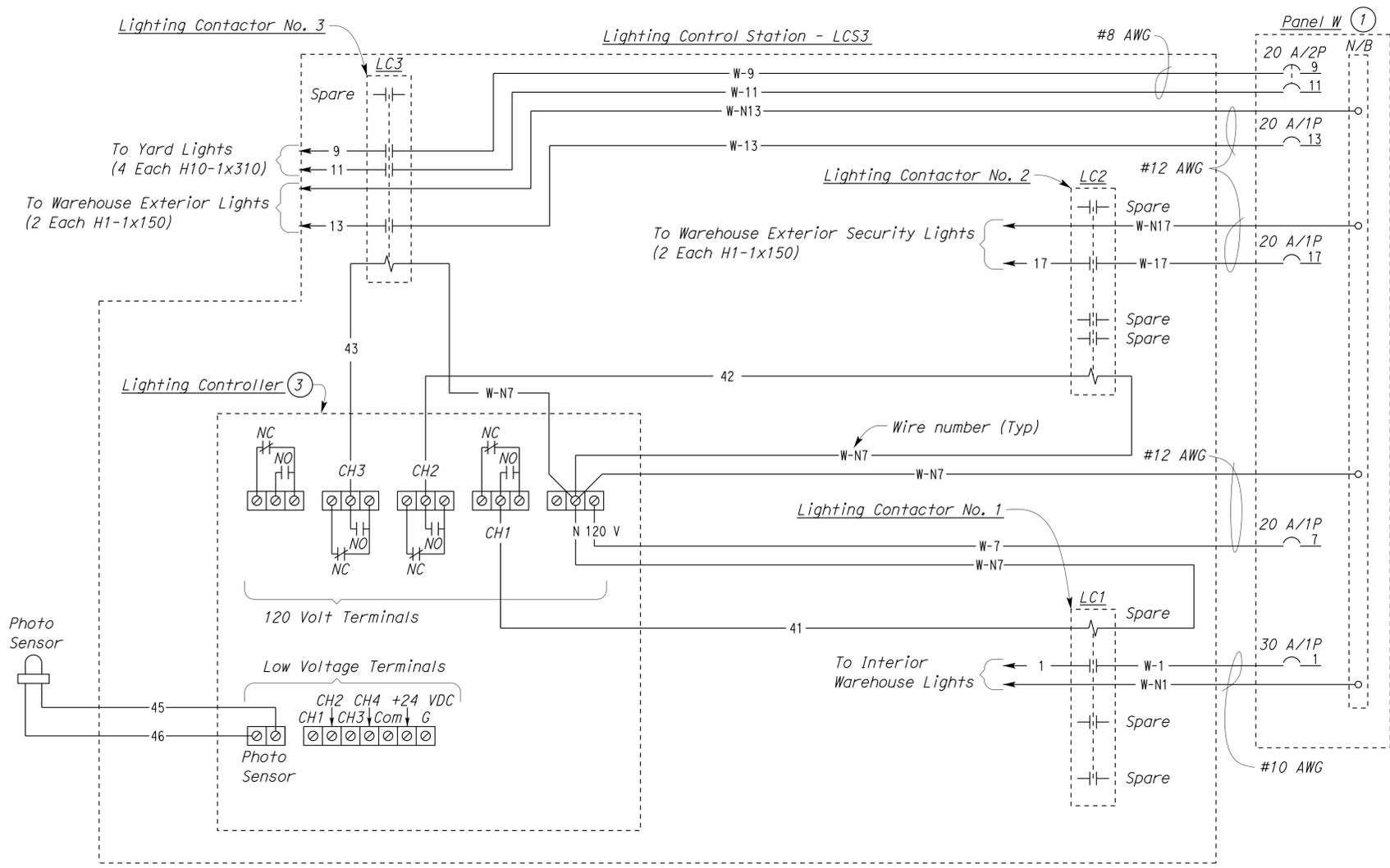
ITEM No.	INSCRIPTION	LETTER HEIGHT
1	EXHAUST FAN CONTROL PANEL	1/4"
2	EXHAUST FANS	1/8"
3	CONTROL RELAY - CR	1/8"

DOOR MOUNTED EQUIPMENT
PANEL MOUNTED EQUIPMENT
1 EXHAUST FAN CONTROL STATION
NO SCALE

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY Baldev S. Dehal	CHECKED Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58M5708	EL CENTRO MAINTENANCE FACILITY WAREHOUSE	SHEET EE8-2
DETAILS BY Kathl Andreasen	CHECKED Baldev S. Dehal		UNIT PROJECT NUMBER & PHASE 3597 11000000351	POST MILE		PANEL DETAILS AND EXHAUST FAN CONTROLS
QUANTITIES BY Baldev S. Dehal	CHECKED Tech Ngov		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

EA 076701



LIGHTING CONTROL SCHEMATIC

NAMEPLATE SCHEDULE		
ITEM No.	INSCRIPTION	LETTER HEIGHT
1	LIGHTING CONTROL STATION - LCS3	1/4"
2	LIGHTING CONTROLLER	1/8"
3	LIGHTING CONTACTOR - LC1	1/8"
4	LIGHTING CONTACTOR - LC2	1/8"
5	LIGHTING CONTACTOR - LC3	1/8"

Notes:

- ① For additional branch circuit breaker, see panel schedule on sheet EE8-2.
- ② Warning plate letter height shall be 1/4" letters with inscription as follows:

WARNING

FOREIGN VOLTAGE PRESENT IN THIS CABINET.
DISCONNECT CIRCUIT BREAKER NO. 1, 3-5, 7, 9-11, 13 & 17, IN PANEL W BEFORE SERVICING.

- ③ Set lighting controller settings as follows:

LIGHTING CONTROLLER SETTING:

CHANNEL 1:
The Warehouse exterior lights to be "ON" Monday through Friday, 6 AM to 6 PM.

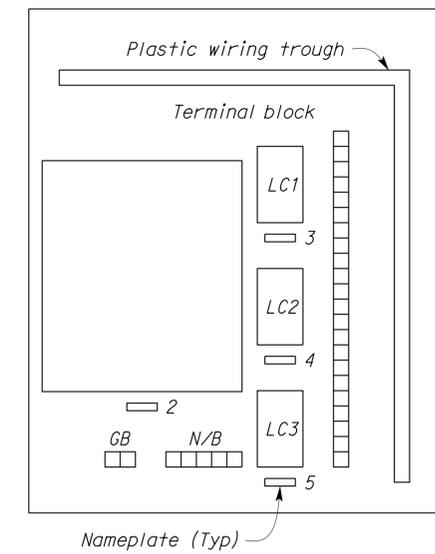
CHANNEL 2:
The building exterior security lights to be "ON" when ambient lighting drops to 5 footcandles (Photosensor), and turn "OFF" at 10 footcandles.

CHANNEL 3:
The building exterior lights to be "ON" when ambient lighting drops to 5 footcandles (Photosensor), and "OFF" at 11:00 PM.

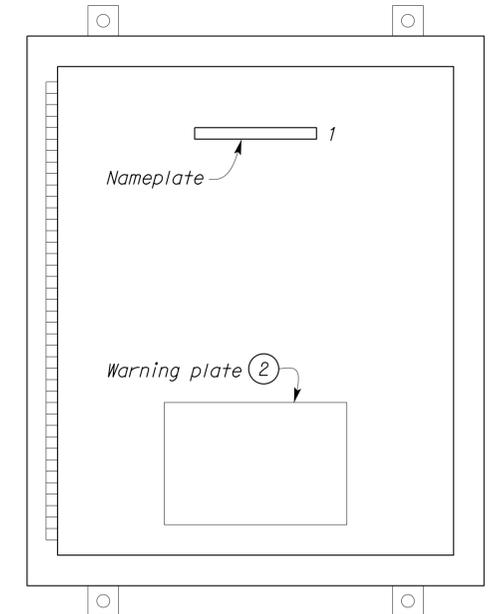
CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *[Signature]*
FRANCIS SOLICH
Approval date: 11-29-2013
CSFM No. 01-13-11-0025



PANEL MOUNTED EQUIPMENT

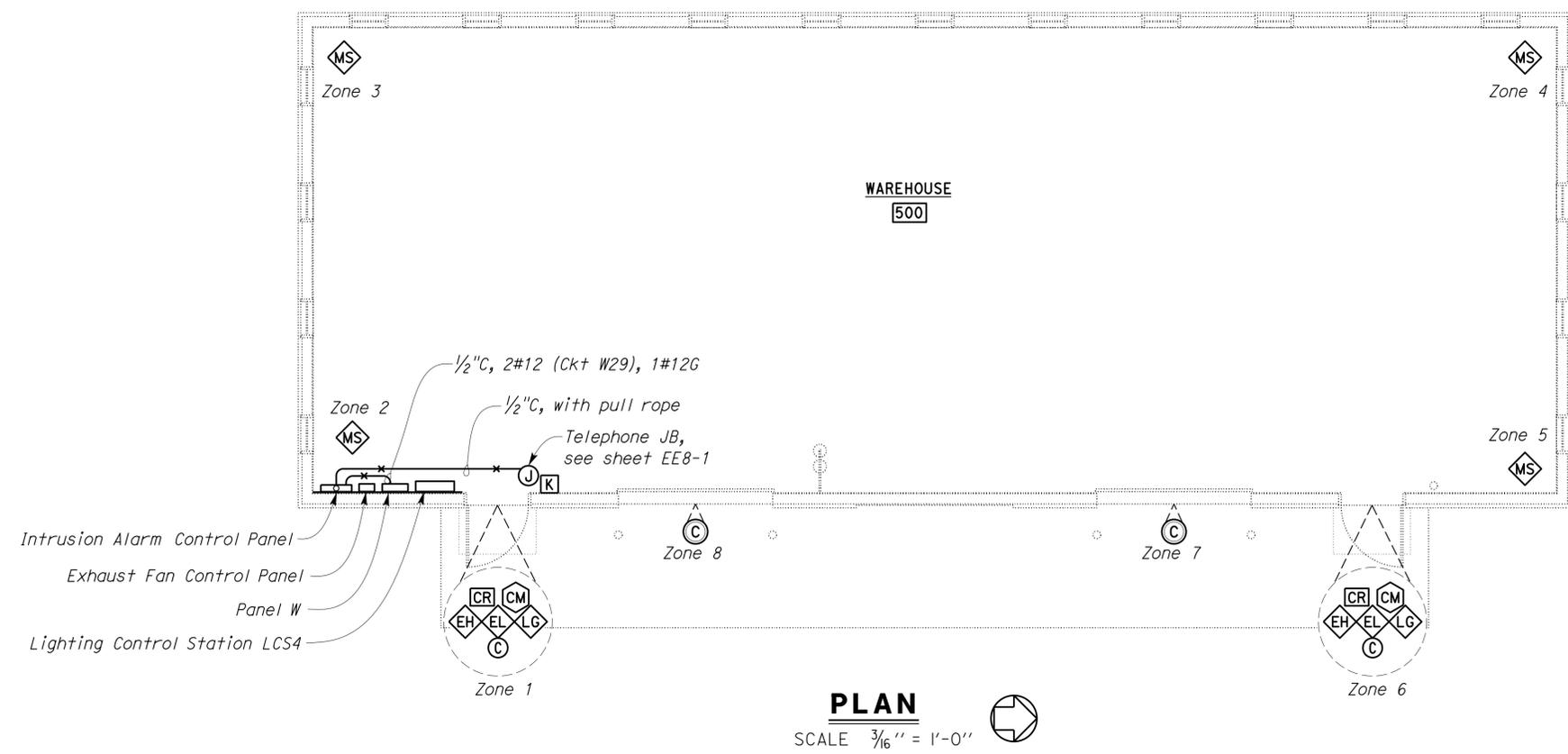
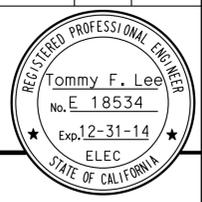


DOOR MOUNTED EQUIPMENT

1 LIGHTING CONTROL STATION - LCS3
NO SCALE

CALIFORNIA STATE FIRE MARSHAL
APPROVED
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DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		333	354
Tommy F. Lee			12-4-13	REGISTERED ELECTRICAL ENGINEER DATE	
01-06-14			PLANS APPROVAL DATE		
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PLAN
 SCALE 3/16" = 1'-0"

- General Notes:**
- Conduit system for intrusion alarm system is not shown. See Special Provisions.
 - Submit conduit and conductor layout for approval prior to installation.
 - For intrusion alarm zoning schedule, see table, this sheet.
 - Electrified lock set and electrified hinge are Architectural items, and are shown on this sheet for information only. Provide separate power supplies for the door hardware, if required by door manufacturer. Monitor switch for exit panic bars are not shown. Connect as required. For door hardware details, see sheet A0-6 and Special Provisions.

INTRUSION ALARM ZONING SCHEDULE				
ZONE	LOCATION	QNTY	DEVICE DESCRIPTION	NOTE
1	SINGLE PEDESTRIAN ACCESS DOOR (SOUTHEAST END)	1	DIGITAL CARD READER	
		1	MAGNETIC CONTACT SWITCH - PEDESTRIAN	
		1	ELECTRIFIED DOOR HINGE	*
		1	ELECTRIFIED LOCK SET	*
		1	COMBINATION MOTION DETECTOR - MICROWAVE/PASSIVE INFRARED	
		1	LOCK GUARD	*
		1	DIGITAL KEYPAD DEACTIVATES ZONES 1, 2, 3, 4, 5, 6, 7, 8	
2	MOTION DETECTOR	1	MOTION DETECTOR	
3	MOTION DETECTOR	1	MOTION DETECTOR	
4	MOTION DETECTOR	1	MOTION DETECTOR	
5	MOTION DETECTOR	1	MOTION DETECTOR	
6	SINGLE PEDESTRIAN ACCESS DOOR (NORTHEAST END)	1	DIGITAL CARD READER	
		1	MAGNETIC CONTACT SWITCH - PEDESTRIAN	
		1	ELECTRIFIED DOOR HINGE	*
		1	ELECTRIFIED LOCK SET	*
		1	COMBINATION MOTION DETECTOR - MICROWAVE/PASSIVE INFRARED	
7	VEHICLE ACCESS ROLL-UP DOOR	1	MAGNETIC CONTACT SWITCH - VEHICLE	
8	VEHICLE ACCESS ROLL-UP DOOR	1	MAGNETIC CONTACT SWITCH - VEHICLE	

* PART OF ARCHITECTURAL DOOR HARDWARE.

LEGEND (This sheet only)

- DIGITAL KEYPAD
- COMBINATION MOTION DETECTOR - MICROWAVE/PASSIVE INFRARED
- MAGNETIC CONTACT SWITCH-VEHICLE
- MAGNETIC CONTACT SWITCH-PEDESTRIAN
- DIGITAL CARD READER
- ELECTRIFIED DOOR HINGE
- ELECTRIFIED LOCK SET
- LOCK GUARD
- MOTION DETECTOR

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DESIGN BY Baldev S. Dehal CHECKED Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58M5708	EL CENTRO MAINTENANCE FACILITY		SHEET								
			POST MILE	WAREHOUSE	EE8-4									
			INTRUSION ALARM PLAN AND ZONING SCHEDULE			REVISION DATES (PRELIMINARY STAGE ONLY)		OF						
DETAILS BY Kathl Andreasen CHECKED Baldev S. Dehal	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3597 11000000351	DISREGARD PRINTS BEARING EARLIER REVISION DATES	3/7/10	3/7/10	3/7/10	4/7/10	6/2/10	7/7/10	12/3/10	2/25/13	9/15/13	12/4/13	
QUANTITIES BY Baldev S. Dehal CHECKED Tech Ngov	EA 076701			ee8_04.dgn										

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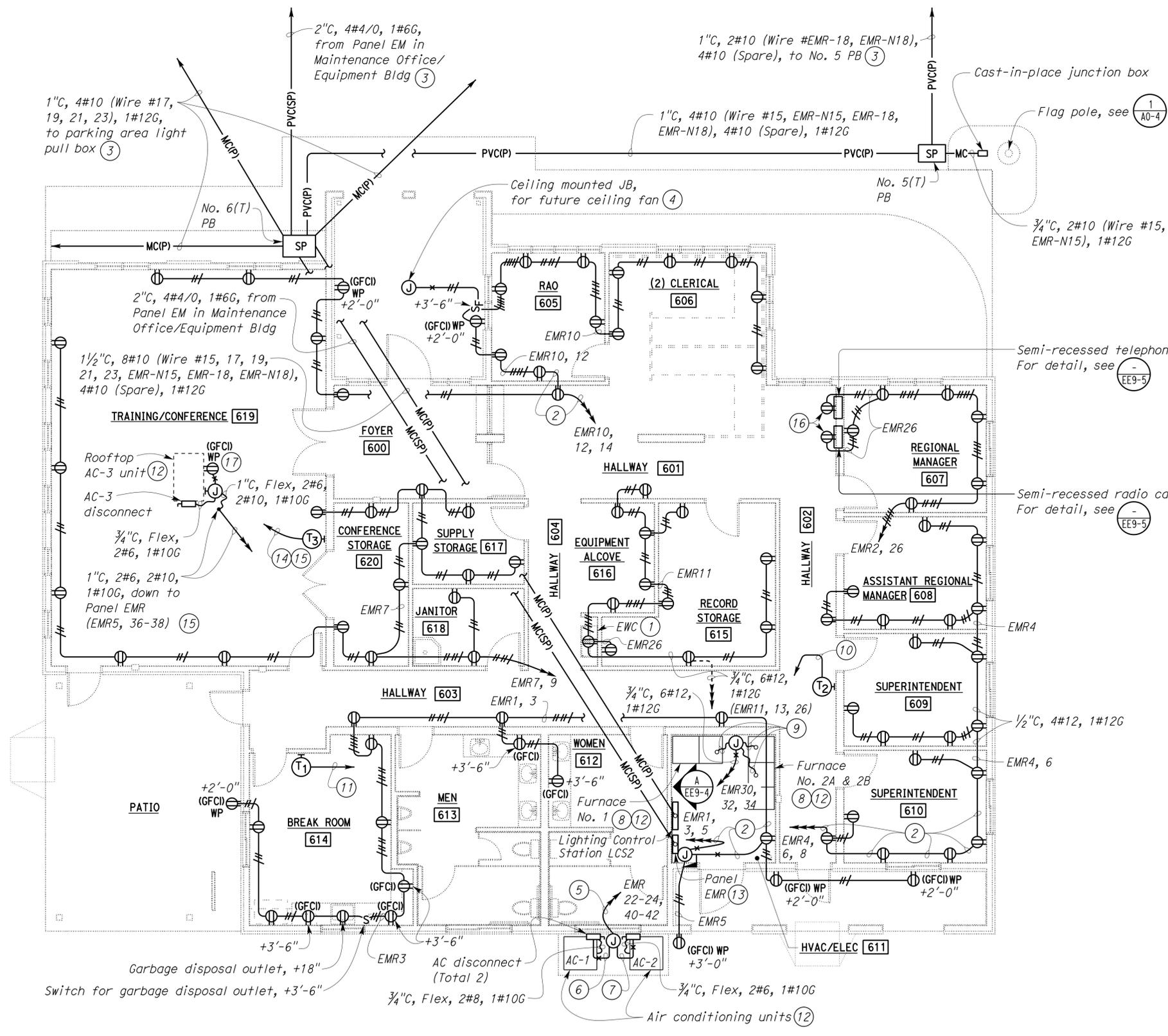
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DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		334	354

Tommy F. Lee		12-4-13
REGISTERED ELECTRICAL ENGINEER	DATE	

01-06-14
PLANS APPROVAL DATE

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- General Notes:**
- Separate neutral wire shall be used for each circuit, and each homerun shall be in a separate conduit, unless otherwise shown.
 - For exact location of the future ceiling fan, see sheet A9-7.
 - Provide floor covering in front of Panel EMR and LCS3.
- Notes:**
- Mounting height of electric water cooler outlet as recommended by the manufacturer.
 - 3/4" C, 6#12, 1#12G.
 - For continuation, see sheet EE0-1.
 - Tape the end of each wire.
 - 1" C, 2#6, 2#8, 1#10G.
 - 3/4" C, 2#8, 1#10G.
 - 3/4" C, 2#6, 1#10G.
 - Install 1/2" C, from furnace unit to AC unit, with control cable, as recommended by the unit manufacturer.
 - 1/2" C, Flex, 2#12, 1#12G.
 - 1/2" C, with thermostat cable, to Furnace No. 2A and 2B.
 - 1/2" C, with thermostat cable, to Furnace No. 1.
 - For location and mounting detail, see sheet M9-4.
 - Install 1/2" C, 1#6G, to nearest cold water pipe. Install grounding hub and clamp to bond to cold water pipe.
 - 1/2" C, with thermostat cable, to rooftop AC-3 unit.
 - Provide conduit flashing as required.
 - Install receptacle inside cabinet.
 - Mount the receptacle on the side of AC unit.

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

PLAN
 SCALE 3/16" = 1'-0"

DESIGN	BY Baldev S. Dehal	CHECKED Tech Ngov
DETAILS	BY Kathl Andreasen	CHECKED Baldev S. Dehal
QUANTITIES	BY Baldev S. Dehal	CHECKED Tech Ngov

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	58M5708	EL CENTRO MAINTENANCE FACILITY	SHEET EE9-1
POST MILE			
REGIONAL OFFICE		POWER PLAN	

UNIT PROJECT NUMBER & PHASE	3597 11000000351	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
			3/7/02/05 9/7/02/13 12/4/13 4/7/10 6/7/10 6/7/10 7/7/10 12/3/10 2/25/13	

TAEMWW Imperial Rev. 7/10

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

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EA 076701

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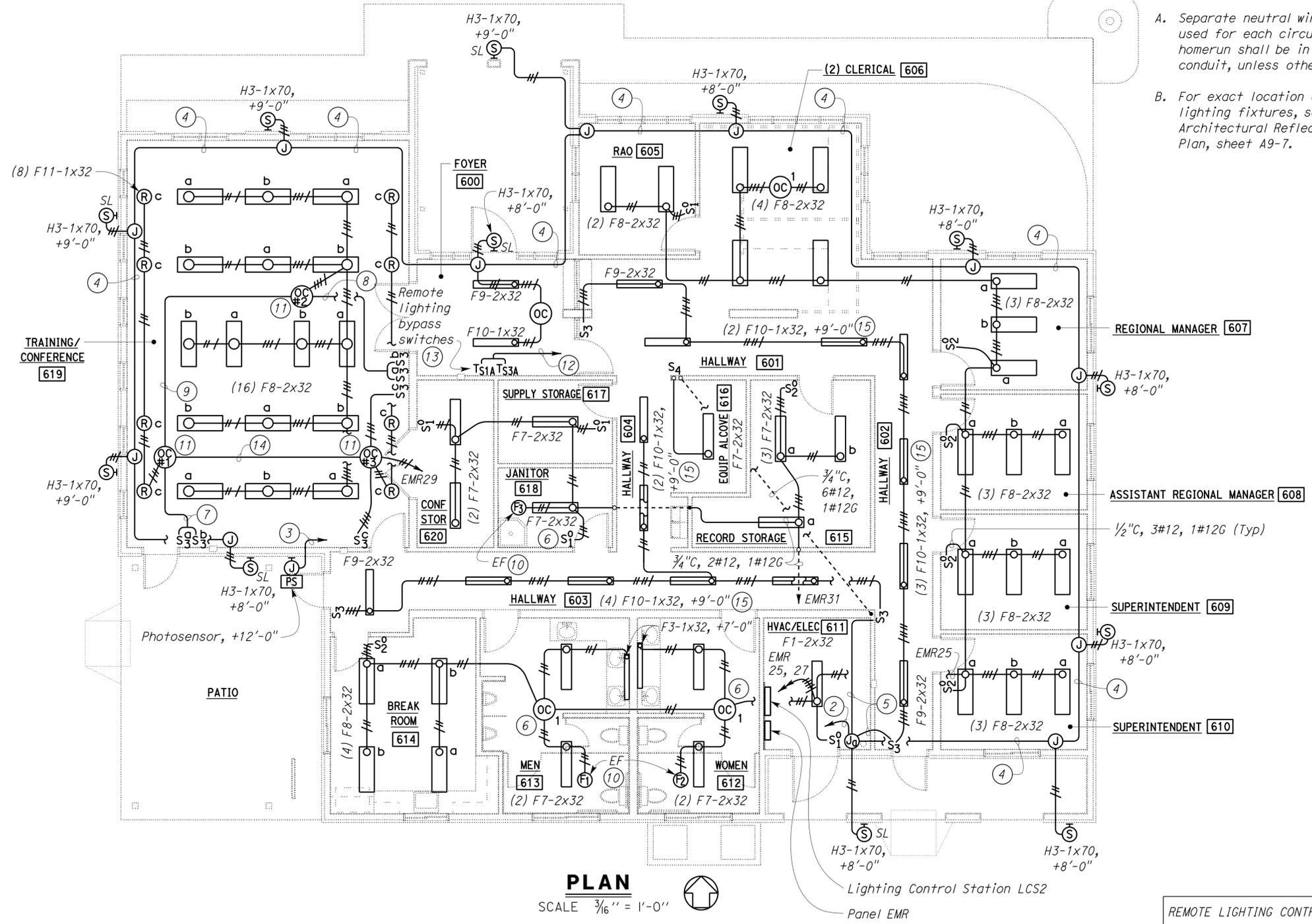
DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		335	354
CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>Francis Solich</i> FRANCIS SOLICH Approval date: 11-29-2013 CSFM No. 01-13-11-0025			Tommy F. Lee REGISTERED ELECTRICAL ENGINEER 12-4-13 DATE 01-06-14 PLANS APPROVAL DATE The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.		

General Notes:

- A. Separate neutral wire shall be used for each circuit, and each homerun shall be in a separate conduit, unless otherwise shown.
- B. For exact location of all lighting fixtures, see Architectural Reflected Ceiling Plan, sheet A9-7.

Notes:

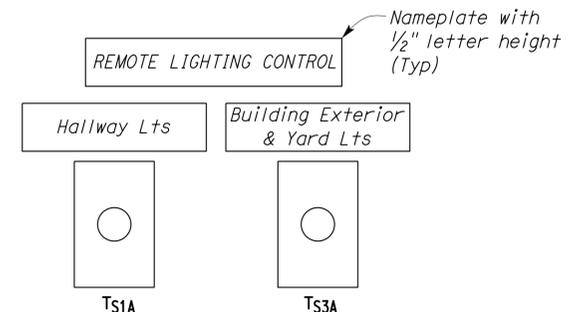
- ① For wiring diagram, see EE10-3.
- ② 3/4"C, 6#12 (Wire #15, 16, 20, EMR-N15, EMR-N16, EMR-N20), 1#12G, to Lighting Control Station LCS2.
- ③ 1/2"C, 2#12 (Wire #5, 6), to Lighting Control Station LCS2.
- ④ 1/2"C, 4#12 (Wire #15, 16, EMR-N15, EMR-N16), 1#12G.
- ⑤ 1/2"C, 2#12 (Wire #20, EMR-N20), 1#12G.
- ⑥ Sensor turn "ON" light and exhaust fan.
- ⑦ 3/4"C, 6#12 (Wire #1, 2, 3, 5, 6, 7), 1#12G.
- ⑧ 3/4"C, 6#12 (Wire #2, 3, 4, 6, 7, 8), 1#12G.
- ⑨ 3/4"C, 8#12 (Wire #1, 2, 3, 5, 6, 7, EMR-29, EMR-N29), 1#12G.
- ⑩ For location and mounting details, see sheet M9-4.
- ⑪ 2-Pole ceiling mounted occupancy sensor. For wiring diagram, see EE9-4.
- ⑫ 1/2"C, 3#12 (Wire #4, 7, 8), 1#12G, to Lighting Control Station LCS2.
- ⑬ Recessed wall mounted, +3'-6". Install nameplate above the switches as shown in .
- ⑭ 3/4"C, 5#12 (Wire #10, 11, 12, EMR-29, EMR-N29), 1#12G.
- ⑮ Suspended with factory supplied aircraft cable.



PLAN

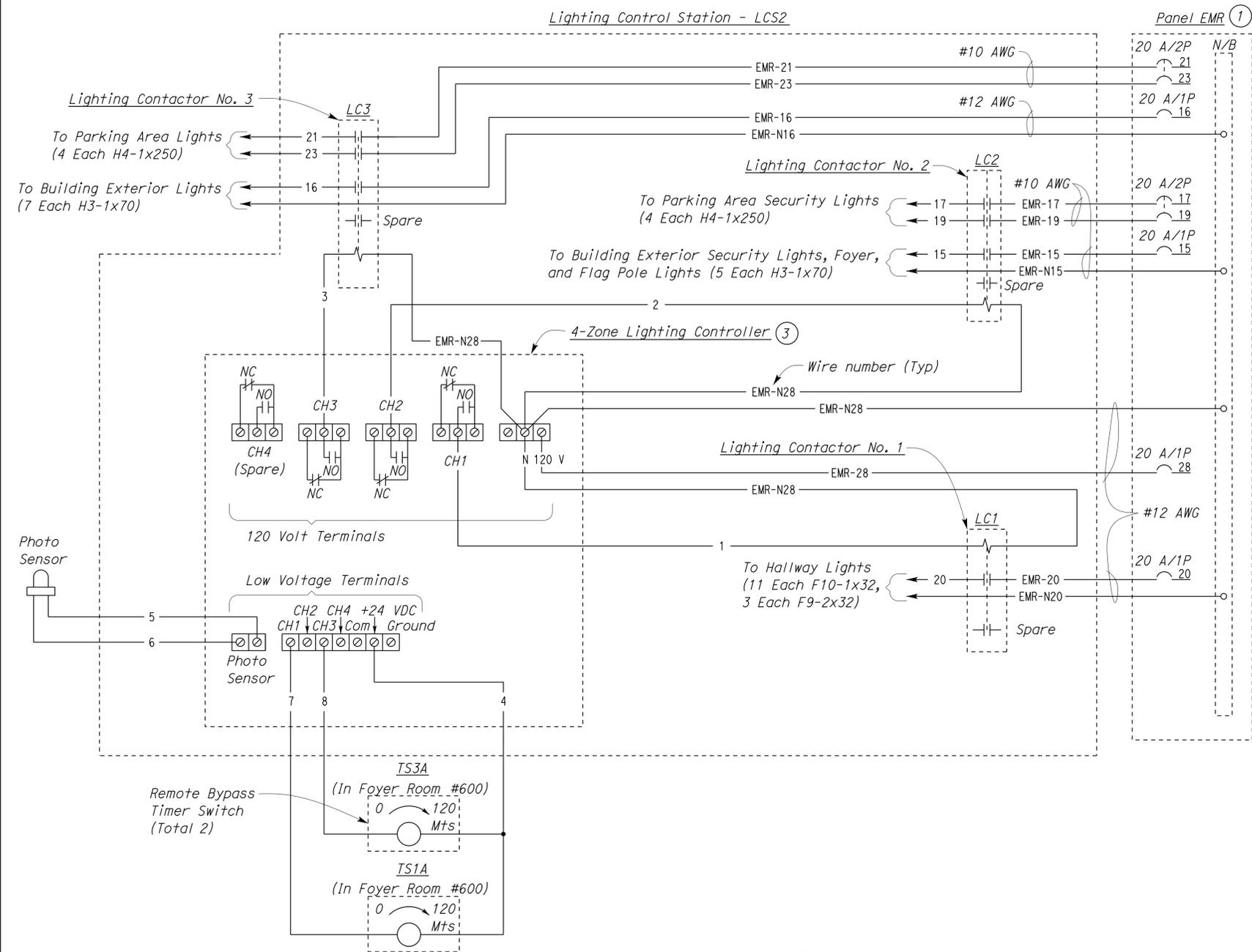
SCALE 3/16" = 1'-0"

NAMEPLATE DETAIL



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DESIGN BY <i>Baldev S. Dehal</i>	CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58M5708	EL CENTRO MAINTENANCE FACILITY		SHEET EE9-2			
					LIGHTING PLAN					
DETAILS BY <i>Kathl Andreasen</i>	CHECKED <i>Baldev S. Dehal</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3597 11000000351	POST MILE	REVISION DATES (PRELIMINARY STAGE ONLY)				SHEET OF	
QUANTITIES BY <i>Baldev S. Dehal</i>	CHECKED <i>Tech Ngov</i>				3/7/09	12/4/13	2/23/10	4/7/10		6/28/10



LIGHTING CONTROL SCHEMATIC

NAMEPLATE SCHEDULE		
ITEM NO.	INSCRIPTION	LETTER HEIGHT
1	LIGHTING CONTROL STATION - LCS2	1/4"
2	LIGHTING CONTROLLER	1/8"
3	LIGHTING CONTACTOR - LC1	1/8"
4	LIGHTING CONTACTOR - LC2	1/8"
5	LIGHTING CONTACTOR - LC3	1/8"

Notes:

- For additional branch circuit breaker, see panel schedule on sheet EE9-4.
- Warning plate letter height shall be 1/4" letters with inscription as follows:

WARNING

DISCONNECT CIRCUIT BREAKER NO. 15, 16, 17-19, 20, 21-23, 28 IN PANEL EMR BEFORE SERVICING.

- Set lighting controller settings as follows:

LIGHTING CONTROLLER SETTING:

CHANNEL 1:
The Hallway lights to be "ON" Monday through Friday, 6 AM to 6 PM.

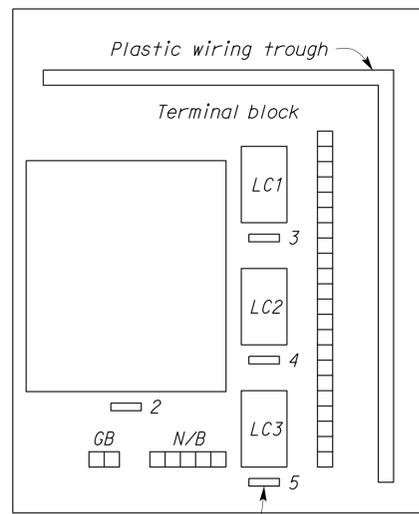
CHANNEL 2:
The building exterior security lights and the parking security lights to be "ON" when ambient lighting drops to 5 footcandles (Photosensor), and turn "OFF" at 10 footcandles.

CHANNEL 3:
The parking area lights and the building exterior lights to be "ON" when ambient lighting drops to 5 footcandles (Photosensor), and "OFF" at 11:00 PM.

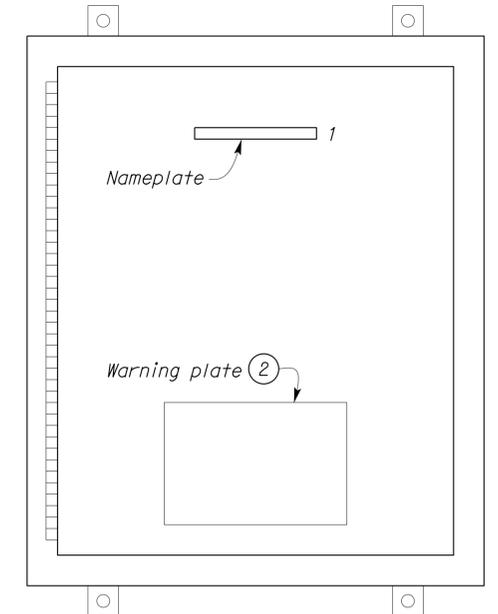
CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: FRANCIS SOLICH
Approval date: 11-29-2013
CSFM No. 01-13-11-0025

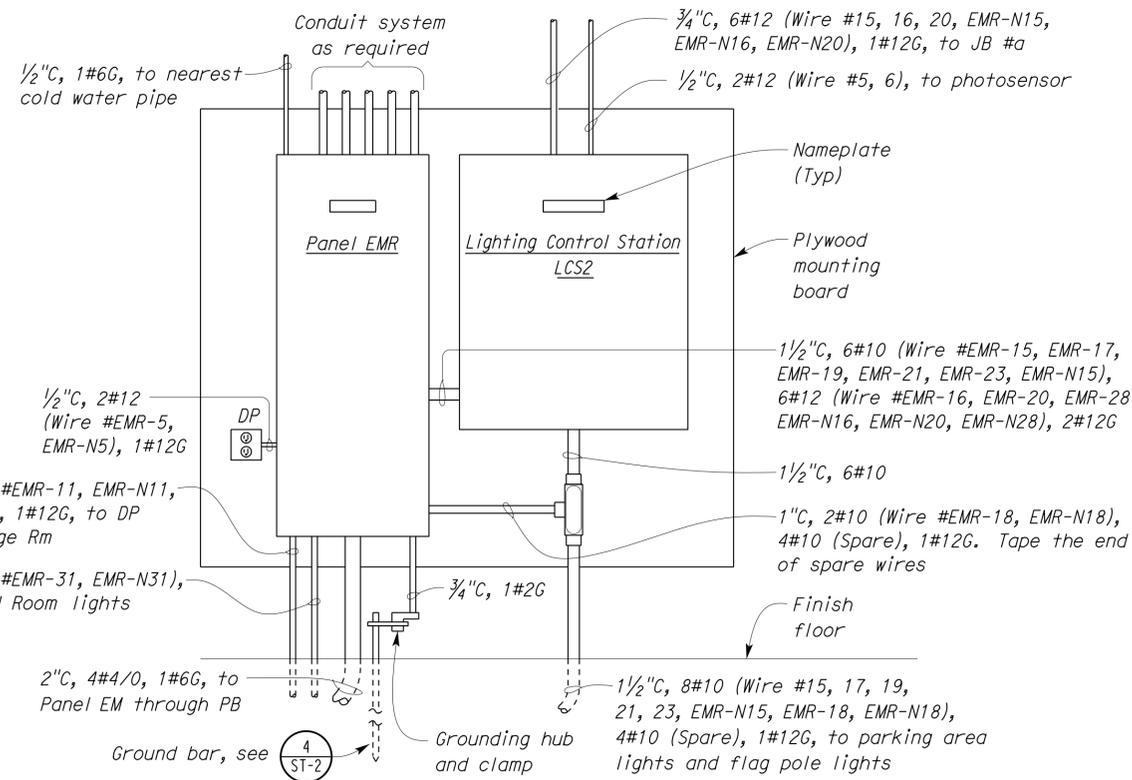


PANEL MOUNTED EQUIPMENT

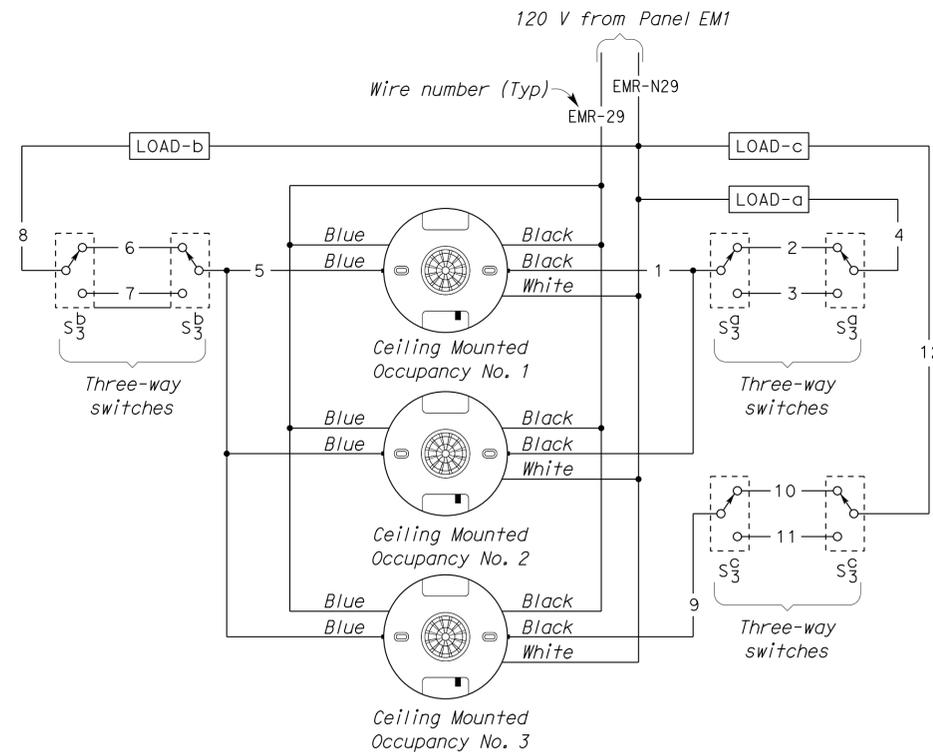


DOOR MOUNTED EQUIPMENT

1 LIGHTING CONTROL STATION - LCS2
NO SCALE



A ELEVATION
SCALE 1" = 1'-0"



1 WIRING DIAGRAM

(Ceiling mounted 2-pole occupancy sensors in parallel)

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DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		337	354

Tommy F. Lee
REGISTERED ELECTRICAL ENGINEER
12-4-13 DATE

Tommy F. Lee
No. E 18534
Exp. 12-31-14
ELEC
STATE OF CALIFORNIA

01-06-14
PLANS APPROVAL DATE

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MAIN: 225-AMPERE CB
VOLTS: 120/208 V, 3 Ø, 4-WIRE

PANEL EMR

FEEDER SIZE: 4#4/0 AWG
LOCATION: HVAC/ELEC ROOM

DESCRIPTION	AMPERES			BRK	CKT	A	B	C	CKT	BRK	AMPERES			DESCRIPTION					
	A	B	C								A	B	C						
RECEPT - MEN'S, WOMEN'S, HALLWAY RM #603	10.5			20/1	1				2	20/1	9.0			RECEPT - REGIONAL MGR RM #607					
RECEPT - BREAK ROOM & PATIO		7.5		20/1	3				4	20/1		10.5		RECEPT - ASST REGIONAL MGR RM #608					
RECEPT - COVERED ENTRY, ELEC RM, AC UNITS 1, 2, & 3			9.0	20/1	5				6	20/1			9.0	RECEPT - SUPERINTENDENT RM #609					
RECEPT - CONFERENCE STORAGE, SUPPLY STORAGE	12.0			20/1	7				8	20/1	10.5			RECEPT - SUPERINTENDENT RM #610					
RECEPT - WEST & SOUTH WALL TRAINING RM & JANITOR		12.0		20/1	9				10	20/1		9.0		RECEPT - CLERICAL					
RECEPT - EQUIPMENT ALCOVE & NORTH WALL RECORD STORAGE			7.5	20/1	11				12	20/1			10.5	RECEPT - RAO RM #605 & PATIO CEILING FAN					
RECEPT - EWC, NORTH & EAST WALL RECORD STORAGE	9.0			20/1	13				14	20/1	9.0			RECEPT - FOYER, NORTH WALL TRAINING/CONFERENCE RM, HALLWAY RM #601					
SECURITY LIGHTS - BLDG EXTERIOR		7.8		20/1	15				16	20/1		9.1		LIGHTS - BUILDING EXTERIOR					
SECURITY LIGHTS - PARKING AREA	4.8		4.8	20/2	17				18	20/1			1.0	IRRIGATION CONTROLLER					
															19	20	20/1	4.3	LIGHTS - HALLWAYS & EQUIP ALCOVE
LIGHTS - PARKING AREA		4.8		20/2	21				22	35/2		16.9		AC-1 UNIT					
															23	24	20/1		16.9
															25	26	20/1	4.5	RECEPT-TTB, TELEPHONE & RADIO CABINET
LIGHTS - SUPERINTENDENT RM #609, 610	9.6			20/1	25				28	20/1		1.0		LIGHTING CONTROL STATION LCS2					
LIGHTS - BREAK ROOM, MEN'S, WOMEN'S & HVAC RM		8.3		20/1	27				30	20/1			13.5	FURNACE No. 1					
LIGHTS - TRAINING/CONFERENCE RM			8.0	20/1	29				32	20/1	13.1			FURNACE No. 2A					
LIGHTS - RECORD STORAGE, JANITOR, SUPPLY & CONFERENCE STORAGE	4.9			20/1	31				34	20/1	13.1			FURNACE No. 2B					
No. 3 FIRE ALARM PANEL		1.0		**	20/1	33			36	*		34.9		AC-3 UNIT					
SPARE***				20/2	35				38	60/2		34.9							
No. 3 INTRUSION ALARM CONTROL PANEL		1.0		20/1	39				40	*	45/2	25.0		AC-2 UNIT					
SPARE				20/1	41				42			25.0							
SPARE				20/1	43				44					SPARE					
SPARE				20/1	45				46	20/3									
SPARE				20/1	47				48										
SPARE				20/1	49				50	20/2				SPARE					
SPARE				20/1	51				52										
SPARE				20/1	53				54	20/1				SPARE					

* HCAR-TYPE CIRCUIT BREAKER
** INSTALL LOCKING MECHANISM FOR THIS CIRCUIT BREAKER
*** FOR ELECTRIC GATE OPENER

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
136.1	127.0	144.9	

DESIGN	BY Baldev S. Dehal	CHECKED Tech Ngov
DETAILS	BY Kathl Andreasen	CHECKED Baldev S. Dehal
QUANTITIES	BY Baldev S. Dehal	CHECKED Tech Ngov

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

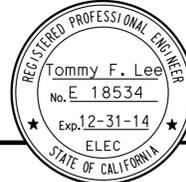
DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. 58M5708
POST MILE

EL CENTRO MAINTENANCE FACILITY
REGIONAL OFFICE
PANEL DETAILS AND WIRING DIAGRAM

SHEET EE9-4 OF

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		338	354

Tommy F. Lee REGISTERED ELECTRICAL ENGINEER DATE 12-4-13		
01-06-14 PLANS APPROVAL DATE		

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General Note:

All underground conduits are rigid steel conduits, with pull rope, sizes as shown.

CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *Francis Solich*
 Approval date: 11-29-2013
 CSFM No. 01-13-11-0025

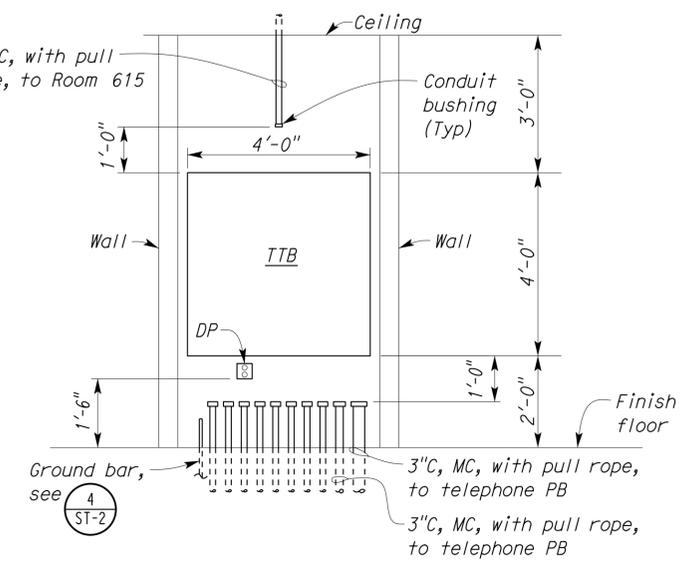
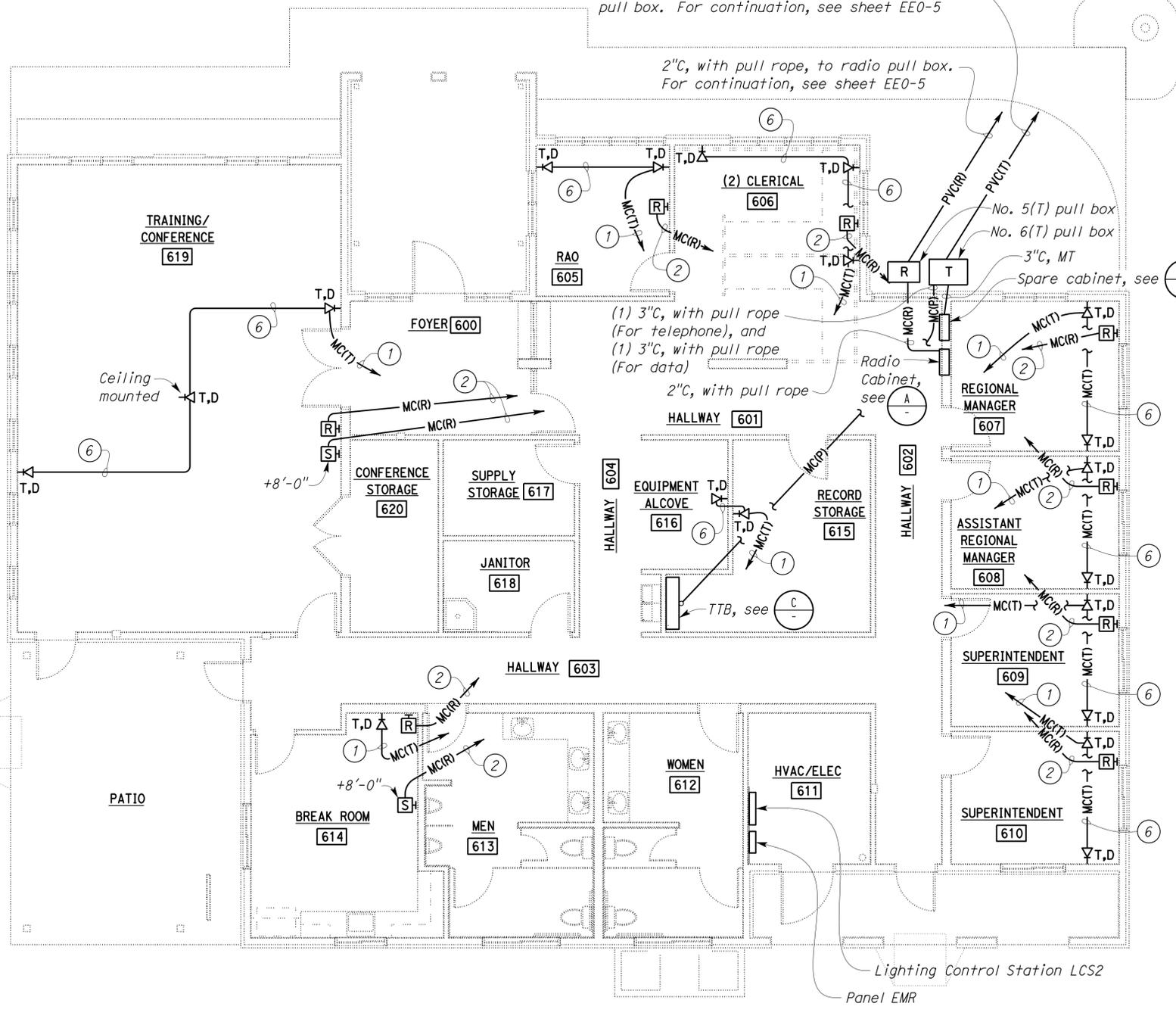
(1) 3"C, with pull rope (For telephone), and (1) 3"C, with pull rope (For data), to telephone pull box. For continuation, see sheet EE0-5

2"C, with pull rope, to radio pull box. For continuation, see sheet EE0-5

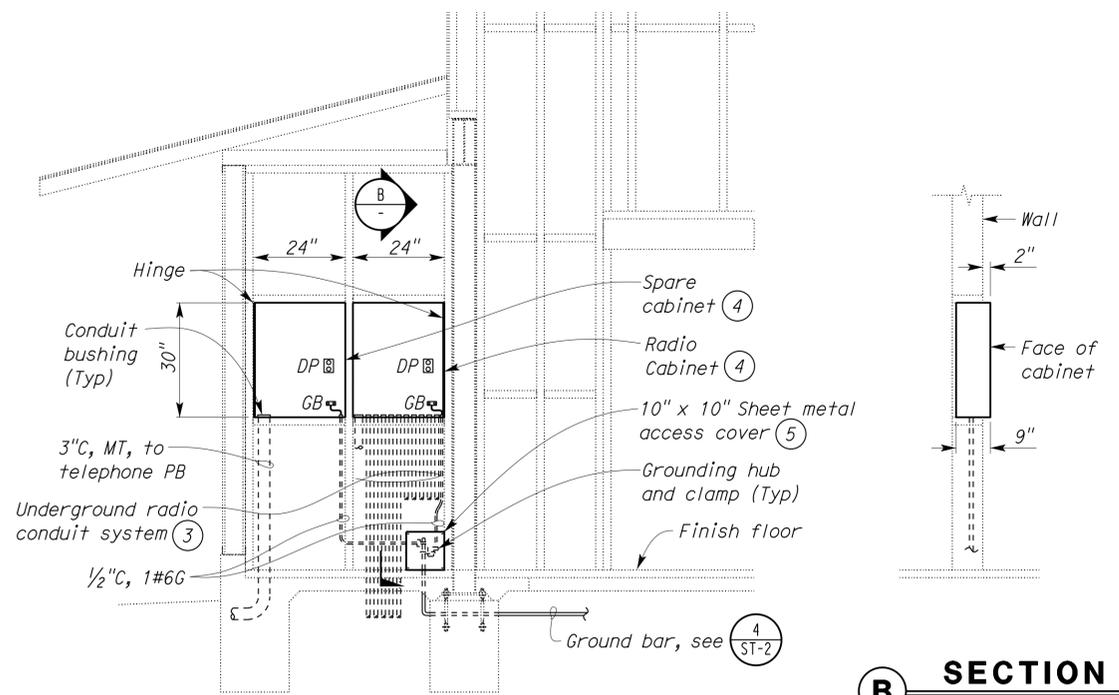
1/2"C, with pull rope, to Room 615

(1) 3"C, with pull rope (For telephone), and (1) 3"C, with pull rope (For data)

2"C, with pull rope



(C) ELEVATION
 SCALE 1/2" = 1'-0"



(A) SECTION
 SCALE 1/2" = 1'-0"

(B) SECTION
 SCALE 1/2" = 1'-0"

Note: Radio Cabinet shown, Spare cabinet similar.

PLAN
 SCALE 3/16" = 1'-0"

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DESIGN	BY	Baldev S. Dehal	CHECKED	Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58M5708	POST MILE	REGIONAL OFFICE	EL CENTRO MAINTENANCE FACILITY COMMUNICATION PLAN	SHEET EE9-5
	DETAILS	BY	Kathl Andreasen	CHECKED							
QUANTITIES	BY	Baldev S. Dehal	CHECKED	Tech Ngov	UNIT PROJECT NUMBER & PHASE 3597 11000000351	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)				SHEET OF
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	1/28/10 1/28/10 2/23/10 4/7/10 6/2/10 12/3/10 2/25/13 9/13/13 12/4/13				OF	

General Notes:

- A. The fire alarm system shall conform to Article 760 of the California Electrical Code. Installation of the fire alarm system shall not be started until detailed plans and specifications, including California State Fire Marshal (CSFM) listing numbers for each component of system, have been approved by the California State Fire Marshal. Upon completion of the installation of the fire alarm system, a satisfactory test of the entire system shall be made in the presence of the enforcing agency.
 - B. Detectors shall not be installed until the cleanup of all trades is completed and final as per 2010 NFPA 72 Section 17.7.1.11.
- Before requesting final approval of the installation, the installing contractor shall furnish a written statement to the State Fire Marshal to the effect that the system has been installed in accordance with approved plans and completely tested in accordance with manufacturer's specifications and appropriate NFPA requirements. (2010 NFPA 72 Section 10.18.1.3)
- C. Please Note: Any reference to the fire alarm system on these plans, including locations of devices, have not been reviewed or approved by CSFM. Any reference to the fire alarm system is deferred for approval by the CSFM following receipt of detailed plans.
 - D. Location of fire alarm devices are shown arbitrary only. Exact location and number of devices shall be deferred for approval by the State Fire Marshal upon submittal of shop drawings.

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 Approval date: 11-29-2013
 CSFM No. 01-13-11-0025

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		339	354

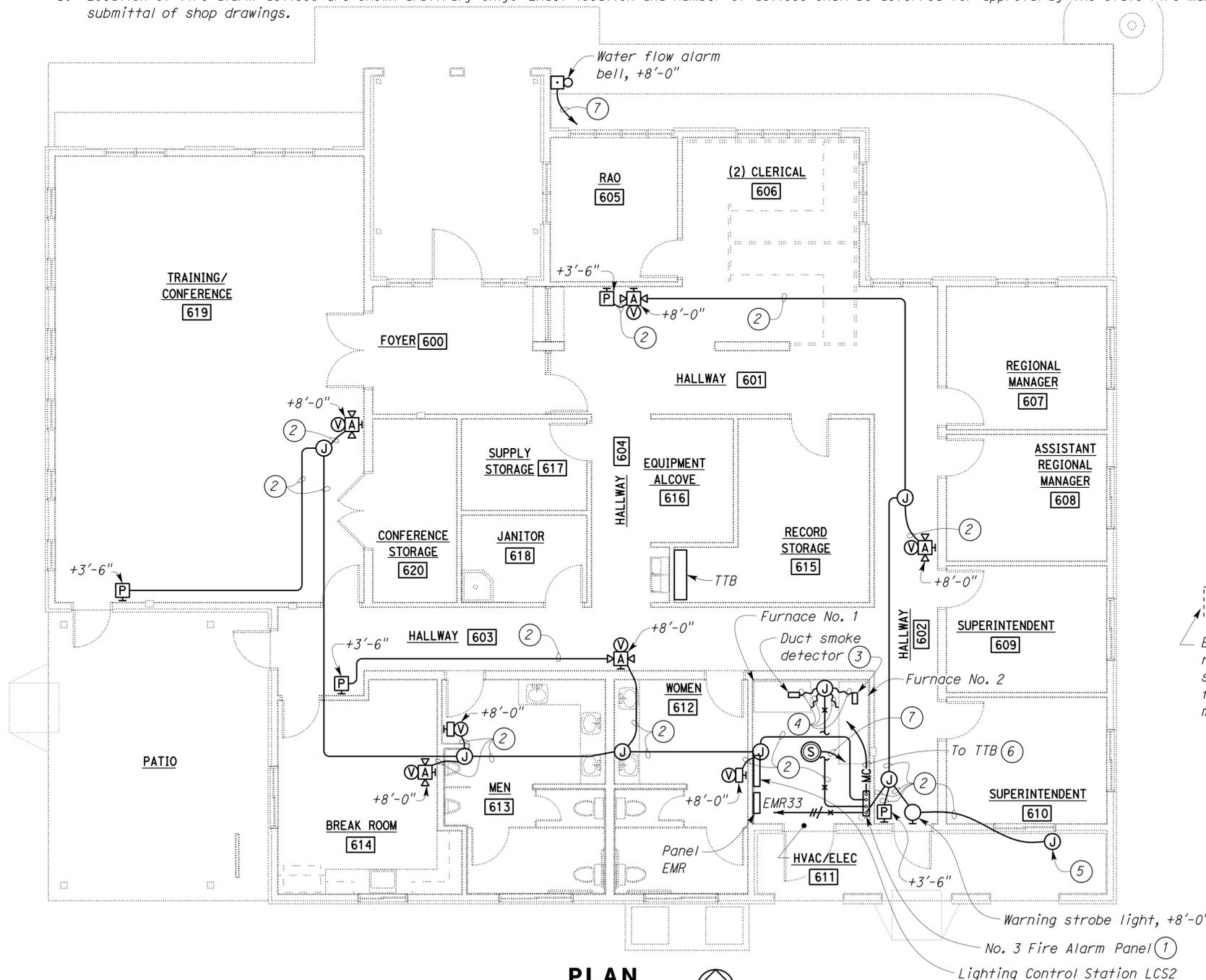
Tommy F. Lee
 REGISTERED ELECTRICAL ENGINEER DATE 12-4-13
 No. E 18534
 Exp. 12-31-14
 ELEC
 STATE OF CALIFORNIA

01-06-14
 PLANS APPROVAL DATE

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Notes:

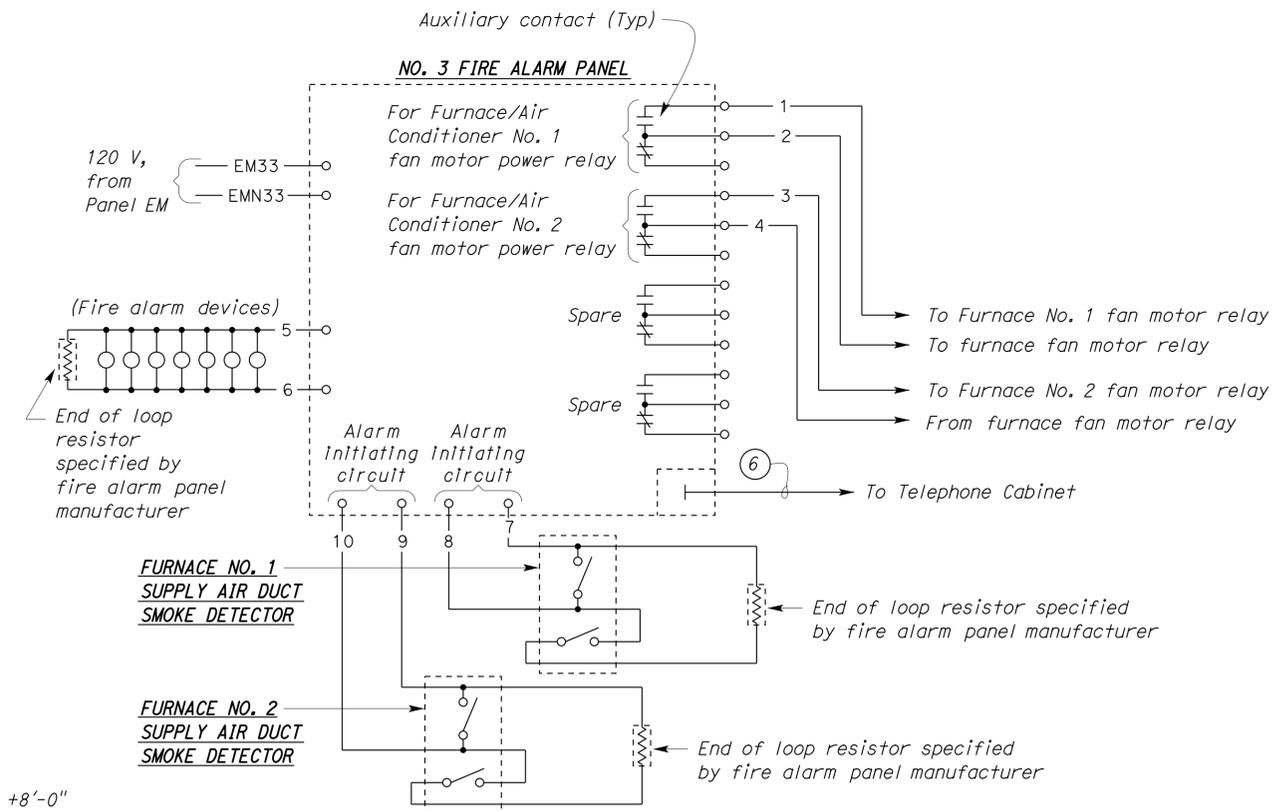
- ① For wiring see "FIRE ALARM PANEL WIRING DIAGRAM", this sheet, and on approved submittal drawings.
- ② 3/4"C, with wires and/or cable, as recommended by the Fire Alarm Panel manufacturer.
- ③ For location and mounting detail, see (23) M13-6.
- ④ 1/2"C, Flex, with wires and/or cable, as recommended by the Fire Alarm Panel manufacturer.
- ⑤ Junction box for supervisory switch and water flow indicator. Provide 1/2" C, Flex, with wire and/or cable, as recommended by the Fire Alarm Panel manufacturer, to connect each to supervisory switch and water flow indicator. For supervisory switch and water flow indicator location on fire sprinkler system riser, see (12) M13-3.
- ⑥ 3/4"C, with telephone cable, as recommended by the Fire Alarm Panel manufacturer, for monitoring.
- ⑦ 3/4"C, with wires and/or cable, as recommended by the Fire Alarm Panel manufacturer, to No. 3 Fire Alarm Panel.



PLAN

SCALE 3/16" = 1'-0"

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FIRE ALARM PANEL WIRING DIAGRAM

TAEMWW Imperial Rev. 7/10	DESIGN	BY Baldev S. Dehal	CHECKED Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	EL CENTRO MAINTENANCE FACILITY		SHEET EE9-6	
	DETAILS	BY Kathl Andreasen	CHECKED Baldev S. Dehal			58M5708	FIRE ALARM PLAN			
	QUANTITIES	BY Baldev S. Dehal	CHECKED Tech Ngov			POST MILE	REGIONAL OFFICE			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	UNIT PROJECT NUMBER & PHASE	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
					0 1 2 3	3597 11000000351	2/28/10 2/24/10 4/7/10 6/24/10 7/7/10 9/14/10 12/3/10 2/25/13 9/15/13 12/4/13			

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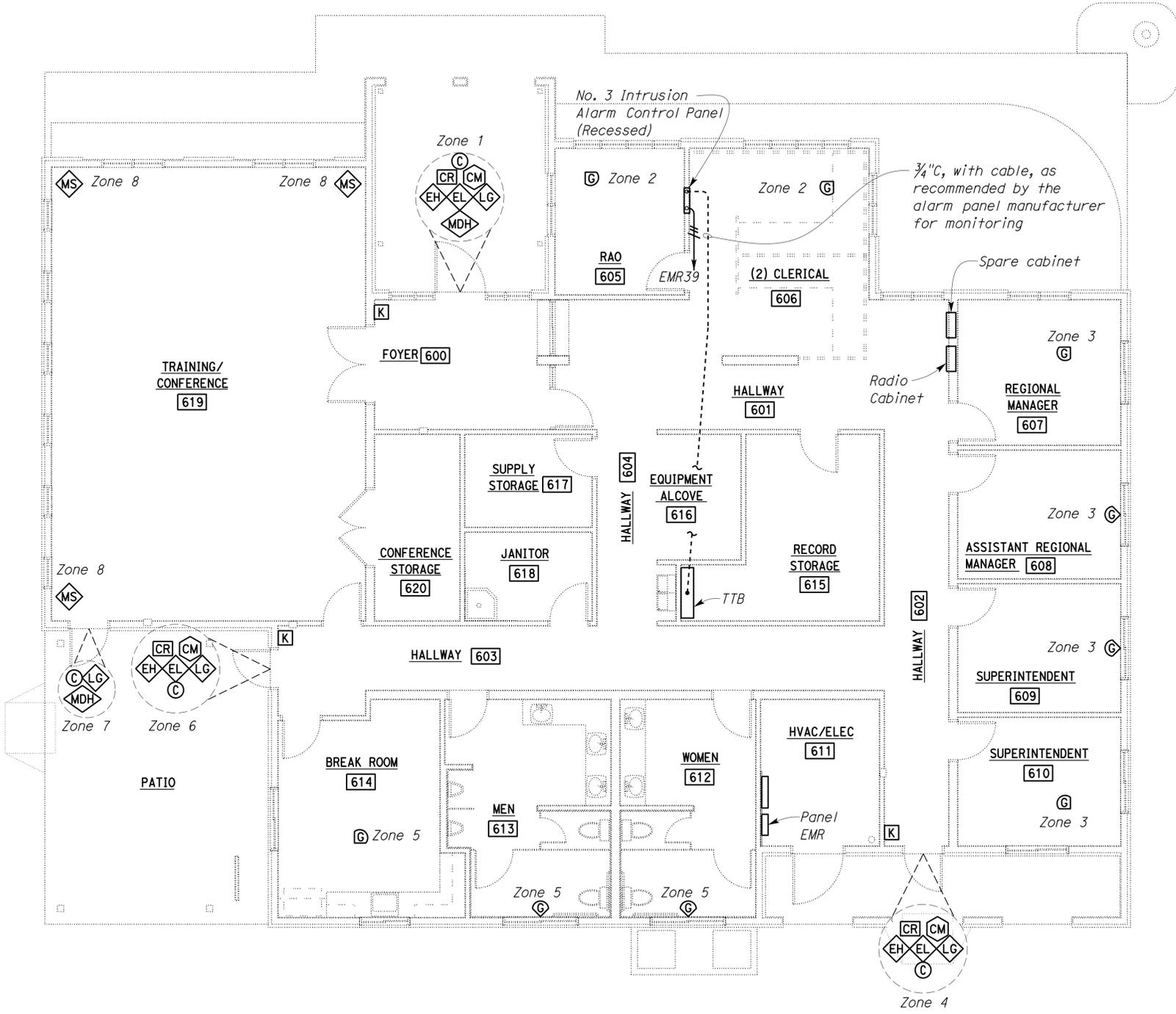
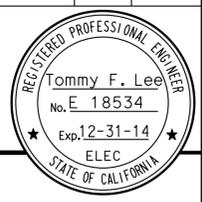
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Tommy F. Lee	12-4-13
REGISTERED ELECTRICAL ENGINEER	DATE

01-06-14
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General Notes:

- Conduit system for intrusion alarm system is not shown. See Special Provisions.
- Submit conduit and conductor layout for approval prior to installation.
- For intrusion alarm zoning schedule, see table on sheet EE9-8.
- Electrified lock set and electrified hinge are Architectural items, and are shown on this sheet for information only. Provide separate power supplies for the door hardware, if required by door manufacturer. Monitor switch for exit panic bars are not shown. Connect as required. For door hardware details, see sheet A0-6 and Special Provisions.

LEGEND (This sheet only)

- [K] DIGITAL KEYPAD
- [CM] COMBINATION MOTION DETECTOR - MICROWAVE/PASSIVE INFRARED
- [C] MAGNETIC CONTACT SWITCH-PEDESTRIAN
- [CR] DIGITAL CARD READER
- [EH] ELECTRIFIED DOOR HINGE
- [EL] ELECTRIFIED LOCK SET
- [MDH] MECHANICAL DOOR HARDWARE
- [LG] LOCK GUARD
- [MS] MOTION DETECTOR
- [G] GLASS BREAK DETECTOR

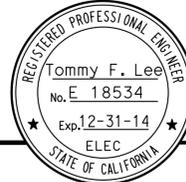
PLAN
 SCALE 3/16" = 1'-0"

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DESIGN BY Baldev S. Dehal CHECKED Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58M5708	EL CENTRO MAINTENANCE FACILITY		SHEET EE9-7				
			POST MILE	REGIONAL OFFICE	INTRUSION ALARM PLAN					
DETAILS BY Kathl Andreasen CHECKED Baldev S. Dehal	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3597 11000000351	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)					
QUANTITIES BY Baldev S. Dehal CHECKED Tech Ngov			2/24/10	3/7/10	3/7/10	4/7/10	6/24/10	7/7/10	12/3/10	2/25/13

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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 REGISTERED ELECTRICAL ENGINEER
 12-4-13
 DATE



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 Reviewed by: 
 Approval date: 11-29-2013
 CSFM No. 01-13-11-0025

INTRUSION ALARM ZONING SCHEDULE

ZONE	LOCATION	QNTY	DEVICE DESCRIPTION	NOTE
1	DOUBLE PEDESTRIAN ACCESS DOOR - ROOM 600	1	DIGITAL CARD READER	
		1	MAGNETIC CONTACT SWITCH - PEDESTRIAN	
		1	ELECTRIFIED DOOR HINGE	*
		1	ELECTRIFIED LOCK SET	*
		1	MECHANICAL DOOR HARDWARE	*
		1	COMBINATION MOTION DETECTOR - MICROWAVE/PASSIVE INFRARED	
		1	LOCK GUARD	*
2	GLASS BREAK DETECTOR - ROOM 605	1	GLASS BREAK DETECTOR	
	GLASS BREAK DETECTOR - ROOM 606	1	GLASS BREAK DETECTOR	
3	GLASS BREAK DETECTOR - ROOM 607	1	GLASS BREAK DETECTOR	
	GLASS BREAK DETECTOR - ROOM 608	1	GLASS BREAK DETECTOR	
	GLASS BREAK DETECTOR - ROOM 609	1	GLASS BREAK DETECTOR	
	GLASS BREAK DETECTOR - ROOM 610	1	GLASS BREAK DETECTOR	
4	SINGLE PEDESTRIAN ACCESS DOOR - ROOM 602	1	DIGITAL CARD READER	
		1	MAGNETIC CONTACT SWITCH - PEDESTRIAN	
		1	ELECTRIFIED DOOR HINGE	*
		1	ELECTRIFIED LOCK SET	*
		1	COMBINATION MOTION DETECTOR - MICROWAVE/PASSIVE INFRARED	
		1	LOCK GUARD	*
5	GLASS BREAK DETECTOR - ROOM 612	1	GLASS BREAK DETECTOR	
	GLASS BREAK DETECTOR - ROOM 613	1	GLASS BREAK DETECTOR	
	GLASS BREAK DETECTOR - ROOM 614	1	GLASS BREAK DETECTOR	
6	SINGLE PEDESTRIAN ACCESS DOOR - ROOM 603	1	DIGITAL CARD READER	
		1	MAGNETIC CONTACT SWITCH - PEDESTRIAN	
		1	ELECTRIFIED DOOR HINGE	*
		1	ELECTRIFIED LOCK SET	*
		1	COMBINATION MOTION DETECTOR - MICROWAVE/PASSIVE INFRARED	
		1	LOCK GUARD	*
7	SINGLE PEDESTRIAN ACCESS DOOR - ROOM 619	1	MAGNETIC CONTACT SWITCH - PEDESTRIAN	
		1	LOCK GUARD	*
		1	MECHANICAL DOOR HARDWARE	*
8	MOTION DETECTOR - ROOM 619	3	MOTION DETECTOR	

* PART OF ARCHITECTURAL DOOR HARDWARE.

DESIGN BY <i>Baldev S. Dehal</i>	CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58M5708	EL CENTRO MAINTENANCE FACILITY	SHEET EE9-8
				POST MILE		
DETAILS BY <i>Kathl Andreasen</i>	CHECKED <i>Baldev S. Dehal</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3597 11000000351	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY <i>Baldev S. Dehal</i>	CHECKED <i>Tech Ngov</i>				4/14/10 6/24/10 7/28/10 12/3/10 2/25/13 9/13/13 12/4/13	

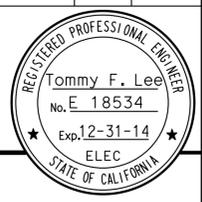
TAEMWW Imperial Rev. 7/10
 EA 076701
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 21-JAN-2014 09:07

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		342	354

Tommy F. Lee
REGISTERED ELECTRICAL ENGINEER
12-4-13 DATE

01-06-14
PLANS APPROVAL DATE

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General Note:

The fuel dispenser location is shown arbitrarily only. Coordinate with card lock supplier and fuel tank/dispenser manufacturer for correct location of stub-up of power, communication, and leak detection conduits. Conduits mounted on the side or top of the tank shall have brackets installed by the tank manufacturer. Install conduit seals on power conduits, 18" above concrete floor. The Contractor shall provide any additional conduits, wires and cables not shown, but necessary for operation. Installation shall meet Class I, Division 1 and Division 2 requirements of National Electrical Code.

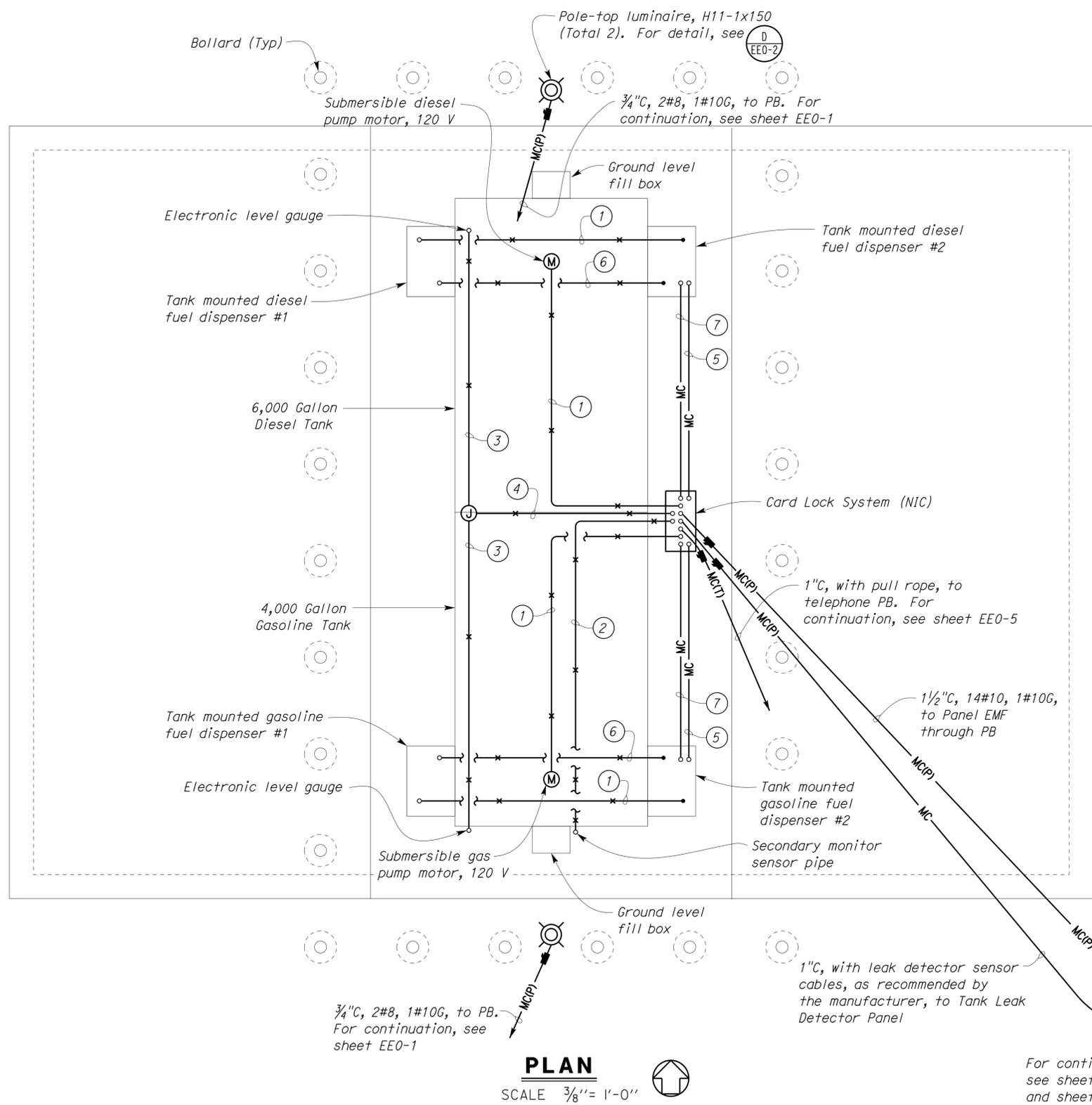
Notes:

- ① 1/2" C, 2#10, 1#12G.
- ② 1/2" C, with leak detector sensor cable, as recommended by the manufacturer.
- ③ 1/2" C, with a level gauge cable, as recommended by the manufacturer.
- ④ 1/2" C, with two level gauge cables, as recommended by the manufacturer.
- ⑤ 1/2" C, 4#10, 1#12G.
- ⑥ 1/2" C, with pulser output cable, as recommended by the manufacturer.
- ⑦ 1/2" C, with two pulser output cables, as recommended by the manufacturer.

CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *[Signature]*
FRANCIS SOLICH
Approval date: 11-29-2013
CSFM No. 01-13-11-0025



MAIN: 50-AMPERE CB
VOLTS: 120/208 V, 3 Ø, 4-WIRE

PANEL EMF

FEEDER SIZE: 4#4 AWG
LOCATION: WASHER/SWEEPER ROOM (NEAR WASH RACK)

DESCRIPTION	AMPERES			BRK	CKT	A	B	C	CKT	BRK	AMPERES			DESCRIPTION	
	A	B	C								A	B	C		
DIESEL PUMP MOTOR *	---	9.8	---	SWN	1				2	20	---	---	---	SPARE	
GAS PUMP MOTOR *	9.8	---	---	SWN	5				6	20	---	---	2.0	GAS DISPENSER #1 *	
DIESEL DISPENSER #1 *	---	---	2.0	SWN	9				10	20/1	---	---	---	SPARE	
ROOM RECEPTACLE	1.5	---	---		13				14	SWN	---	---	2.0	GAS DISPENSER #2 *	
DIESEL DISPENSER #2 *	---	---	2.0	SWN	15				16	15/1	---	1.0	---	LEAK DETECTOR PANEL	
SPARE	---	---	---		19				18	20	---	---	2.0	CARD LOCK SYSTEM *	
												A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
												11.3	10.8	10.0	

* SWITCH NEUTRAL CIRCUIT BREAKER

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY Baldev S. Dehal	CHECKED Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58M5708	EL CENTRO MAINTENANCE FACILITY		SHEET EE11-1
DETAILS BY Kathl Andreasen	CHECKED Baldev S. Dehal		PROJECT NUMBER & PHASE 11000000351	POST MILE	FUEL ISLAND	POWER AND LIGHTING PLAN	OF
QUANTITIES BY Baldev S. Dehal	CHECKED Tech Ngov		UNIT PROJECT NUMBER & PHASE 11000000351	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		

TAEMWW Imperial Rev. 7/10 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

EA 076701

21-JAN-2014 09:06 ee11_01.dgn

CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Approval date: 11-29-2013
 CSFM No. 01-13-11-0025

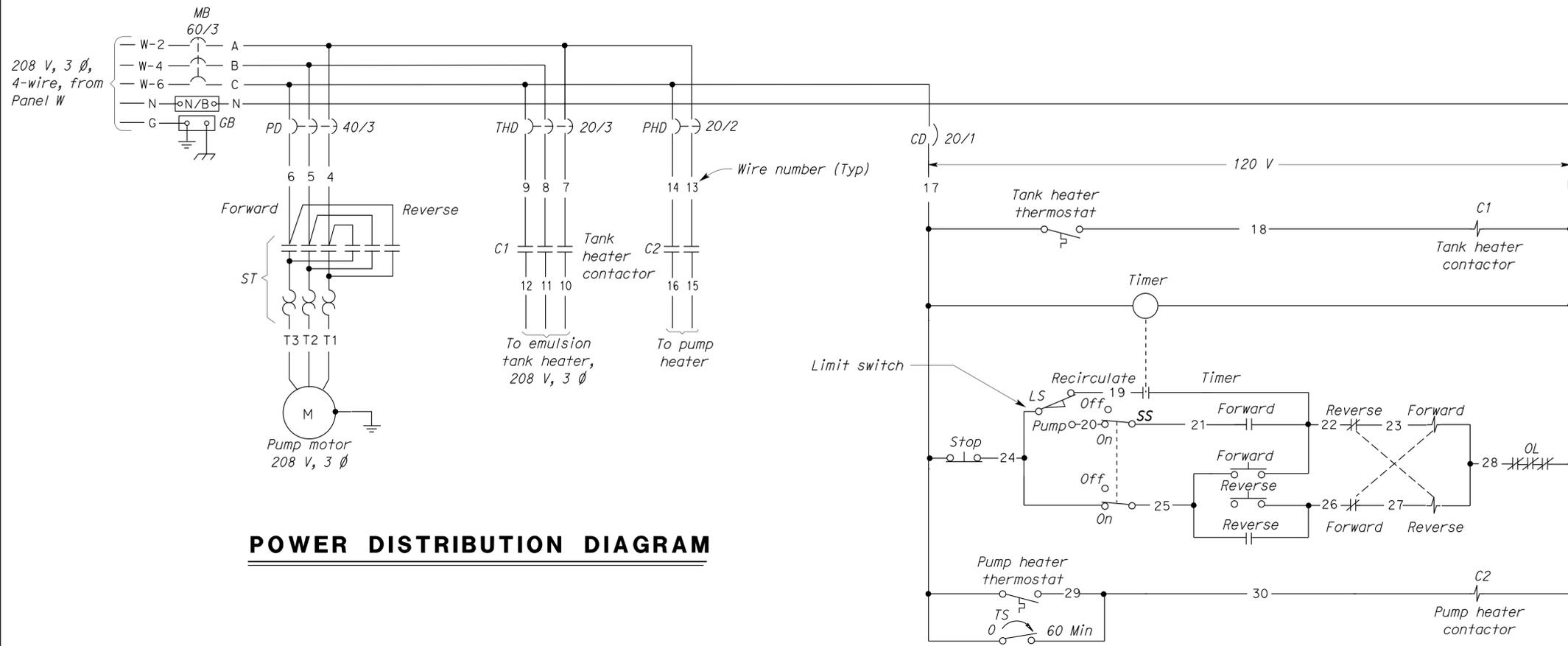
DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		343	354

Tommy F. Lee
 REGISTERED ELECTRICAL ENGINEER
 No. E 18534
 Exp. 12-31-14
 ELEC
 STATE OF CALIFORNIA

12-4-13 DATE

01-06-14
 PLANS APPROVAL DATE

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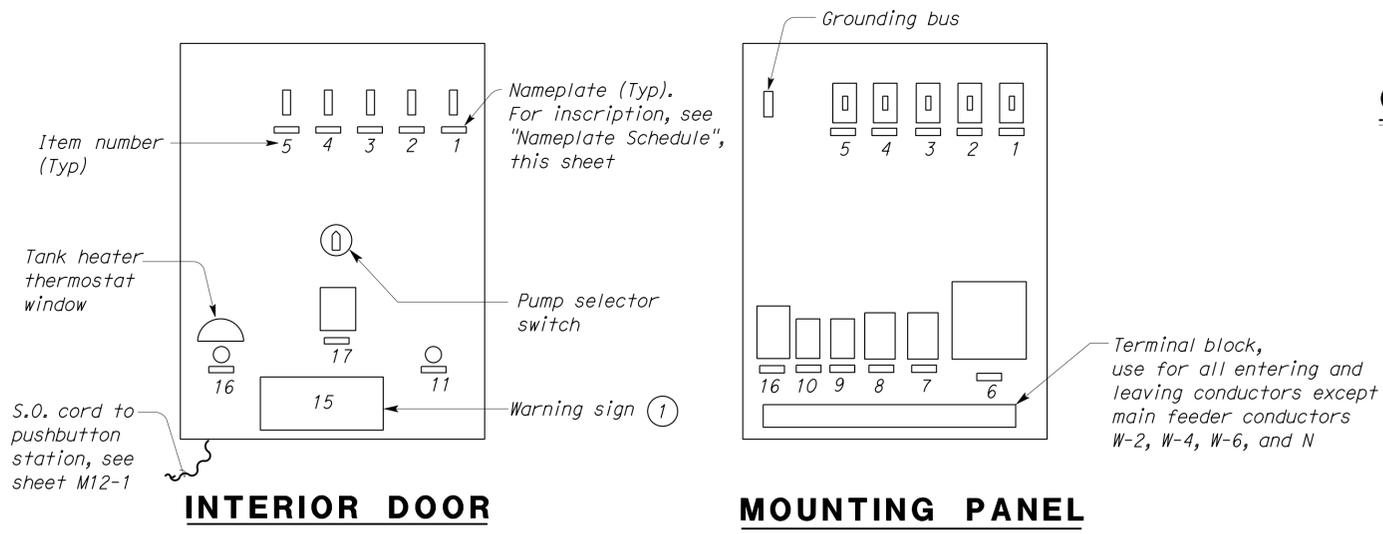


POWER DISTRIBUTION DIAGRAM

CONTROL SCHEMATIC

NAMEPLATE SCHEDULE		
ITEM NO.	INSCRIPTION	LETTER HEIGHT
1 (MB)	MAIN CIRCUIT BREAKER	1/8"
2 (PD)	PUMP MOTOR DISCONNECT	1/8"
3 (THD)	TANK HEATER DISCONNECT	1/8"
4 (PHD)	PUMP HEATER DISCONNECT	1/8"
5 (CD)	CONTROL DISCONNECT	1/8"
6 (ST)	PUMP MOTOR STARTER	1/8"
7 (CI)	TANK HEATER CONTACTOR	1/8"
8	TIMER	1/8"
9 (C2)	PUMP HEATER CONTACTOR	1/8"
10	PUMP HEATER THERMOSTAT	1/8"
11	RESET	1/8"
12	---	
13	---	
14	---	
15 (WARNING SIGN)	RESET THE VALVE HANDLE TO RECIRCULATION MODE AFTER PUMPING IN OR OUT	1/4" **
16	TANK HEATER THERMOSTAT	1/8"
17 (TS)	0-60 MIN. TIMER SWITCH (PUMP HEATER)	1/8"
18	EMULSION TANK CONTROL PANEL	1/4" *
19	PUMP OUT	1/4" **
20	RECIRCULATE	1/4" **

* INSTALLED ON EXTERIOR DOOR
 ** INSTALL AS SHOWN ON



CONTROL PANEL - ELEVATION ②

NO SCALE

- Notes:
- ① A second warning sign with the same inscription shall be posted adjacent to the three-way valve.
 - ② Exterior door not shown for clarity.

DESIGN BY Baldev S. Dehal	CHECKED Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	EL CENTRO MAINTENANCE FACILITY	SHEET EE12-1
				58M5708		
DETAILS BY Kathl Andreasen	CHECKED Baldev S. Dehal	UNIT PROJECT NUMBER & PHASE 3597 11000000351	DISREGARD PRINTS BEARING EARLIER REVISION DATES	POST MILE	EMULSION TANK	EMULSION TANK CONTROL PANEL
QUANTITIES BY Baldev S. Dehal	CHECKED Tech Ngov					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF		
TAEMWW Imperial Rev. 7/10		EA 076701		1/7/10 2/25/10 4/7/10 6/28/10 6/7/10 7/7/10 12/3/10 2/25/13 9/15/13 12/4/13		

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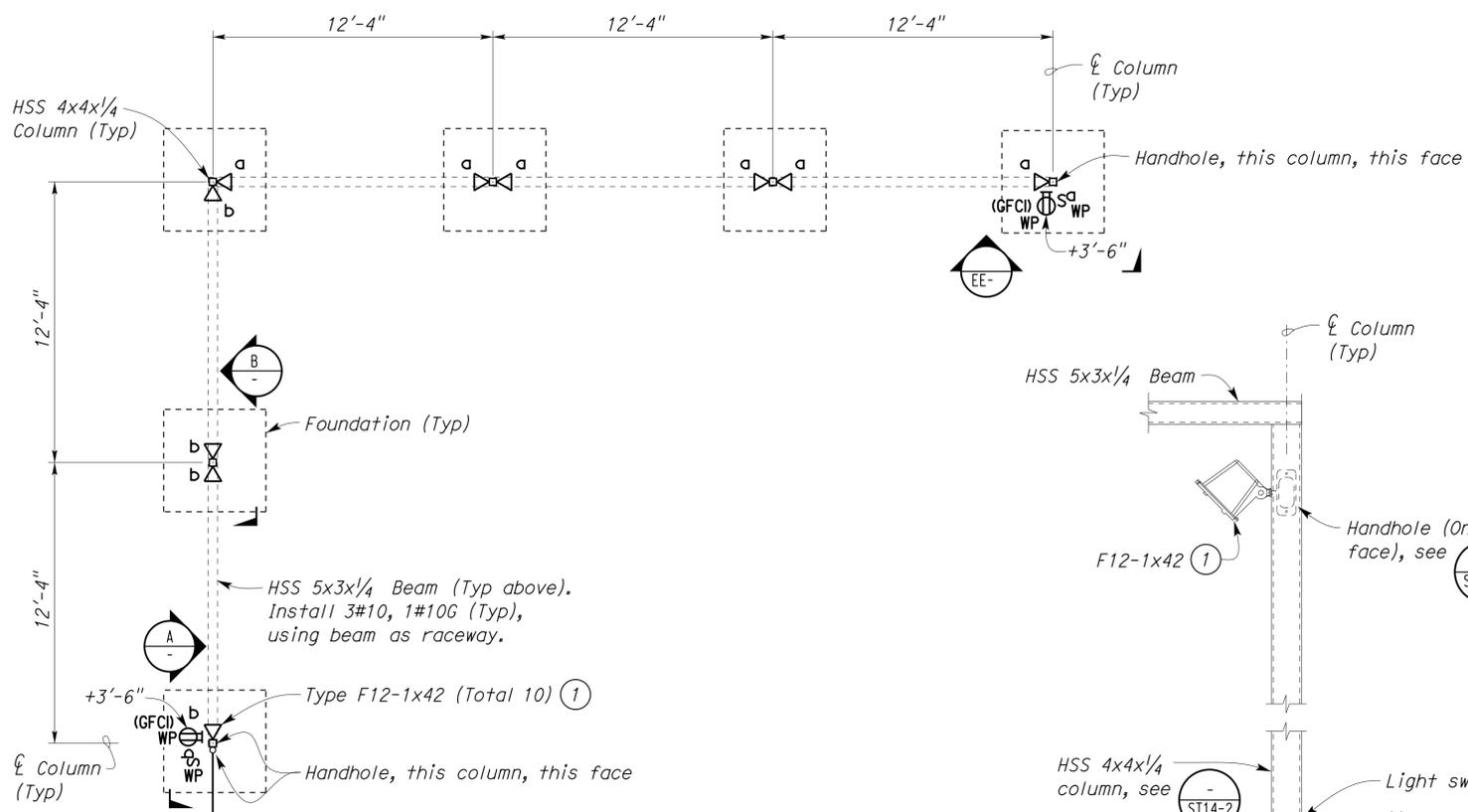
CALIFORNIA STATE FIRE MARSHAL APPROVED
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 CSFM No. 01-13-11-0025

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 DATE 12-4-13
 No. E 18534
 Exp. 12-31-14
 ELEC
 STATE OF CALIFORNIA

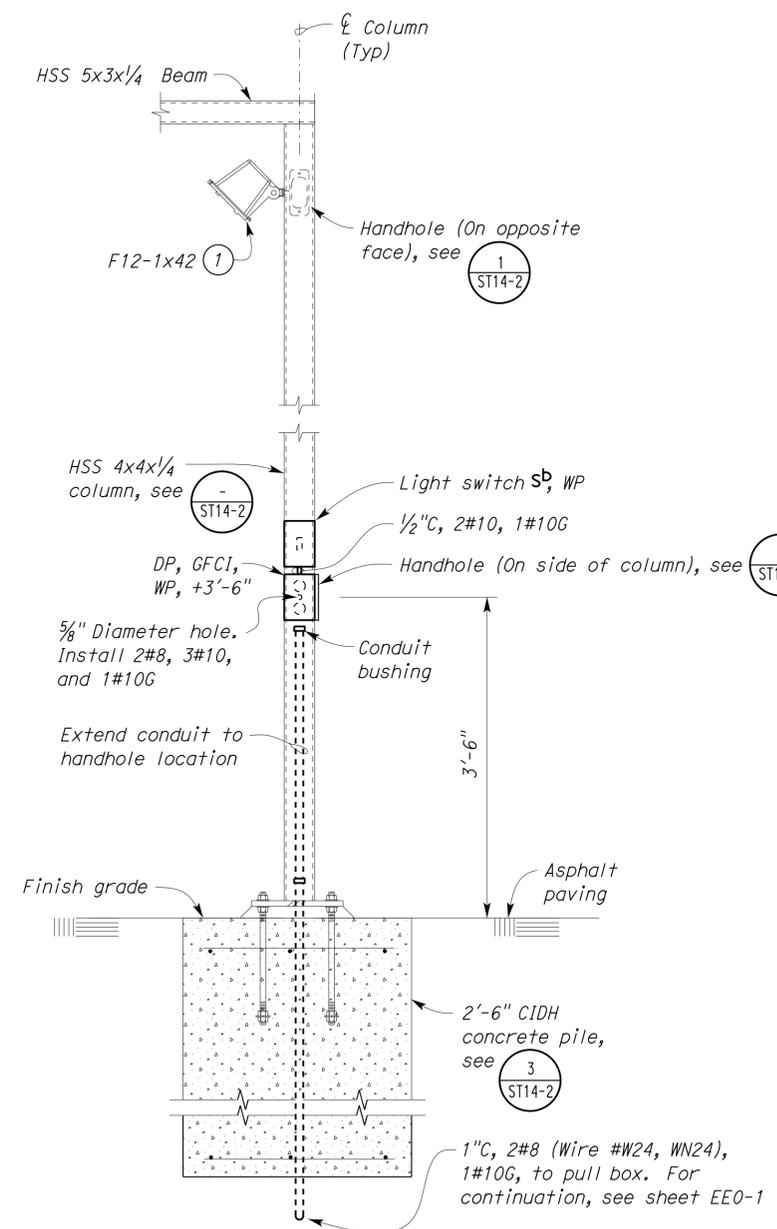
01-06-14
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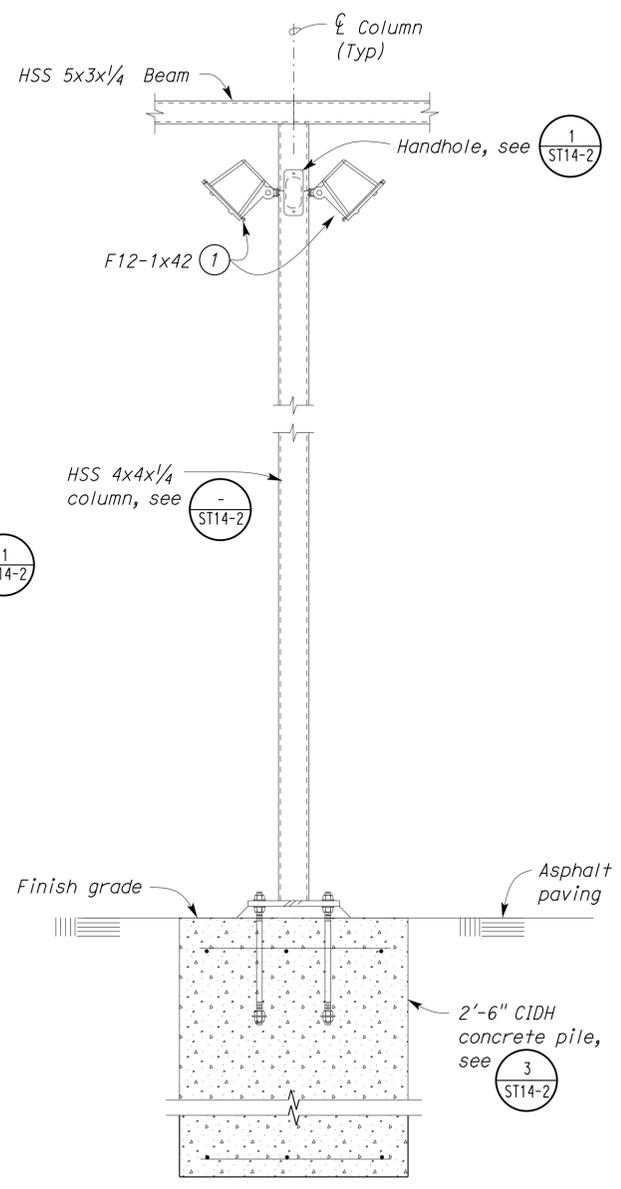
PLAN
 SCALE 1/4" = 1'-0"

1" C, 2#8 (Wire #W24, WN24), 1#10G, to pull box. For continuation, see sheet EE0-1



A SECTION
 SCALE 1" = 1'-0"

Note: Section at light switch SB shown. Section at light switch SA similar.



B SECTION
 SCALE 1" = 1'-0"

Note:
 (1) Mount light on 5/8" diameter hole.

DESIGN BY Baldev S. Dehal CHECKED Tech Ngov	DETAILS BY Kathl Andreasen CHECKED Baldev S. Dehal	QUANTITIES BY Baldev S. Dehal CHECKED Tech Ngov	STRUCTURAL REVIEW BY Tom Meslich	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58M5708	EL CENTRO MAINTENANCE FACILITY		SHEET EE14-1
						POST MILE	SANDER RACKS	POWER AND LIGHTING PLAN	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3				UNIT PROJECT NUMBER & PHASE 3597 11000000351	EA 076701	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
TAEMWW Imperial Rev. 7/10						1/28/10 2/7/10 4/7/10 6/28/10 7/7/10 12/3/10 2/25/13 9/7/13 12/4/13			

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DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	5708		345	354

Tommy F. Lee
REGISTERED ELECTRICAL ENGINEER
DATE 12-4-13

Tommy F. Lee
No. E 18534
Exp. 12-31-14
ELEC
STATE OF CALIFORNIA

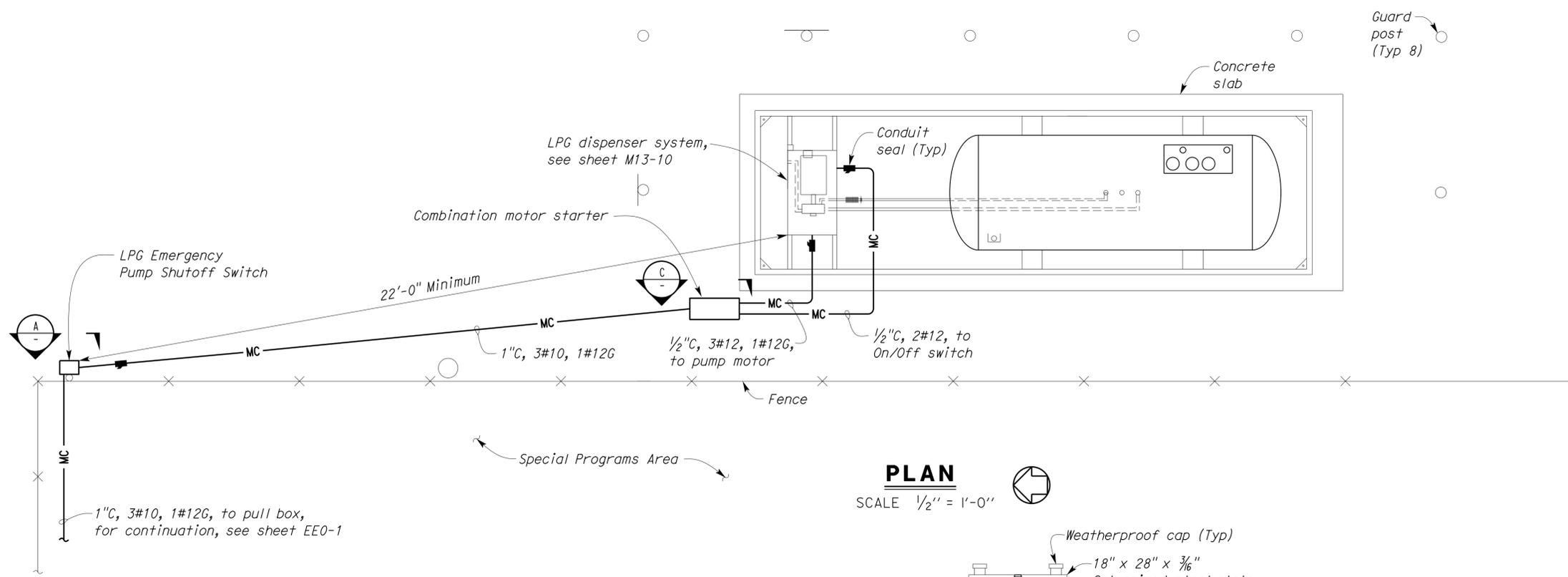
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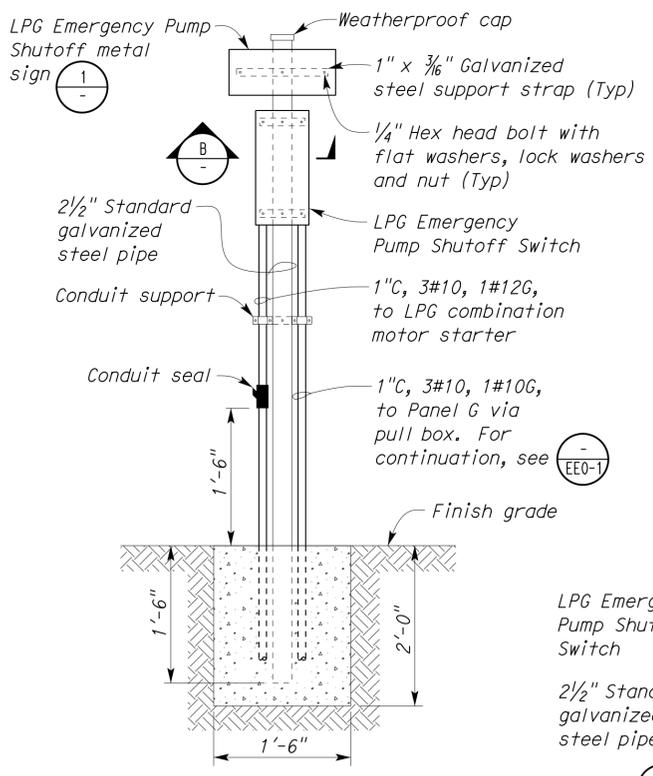
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CSFM No. 01-13-11-0025

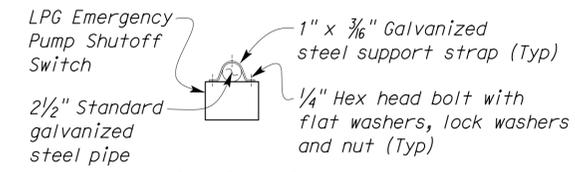


PLAN
SCALE 1/2" = 1'-0"

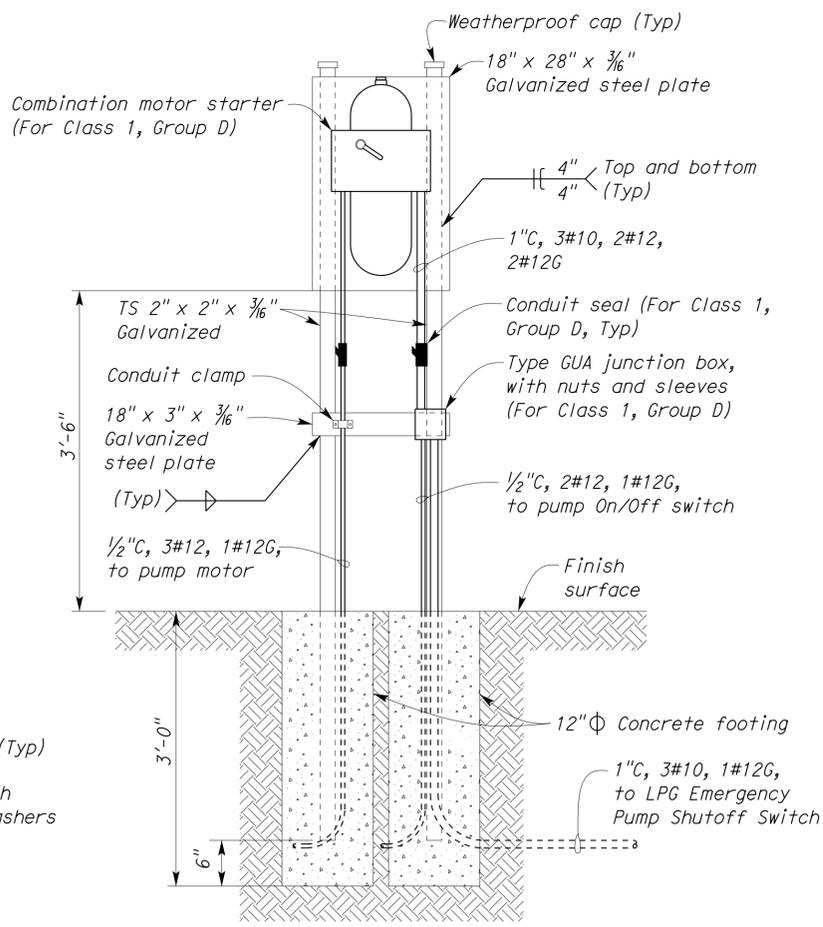


A SECTION
SCALE 1" = 1'-0"

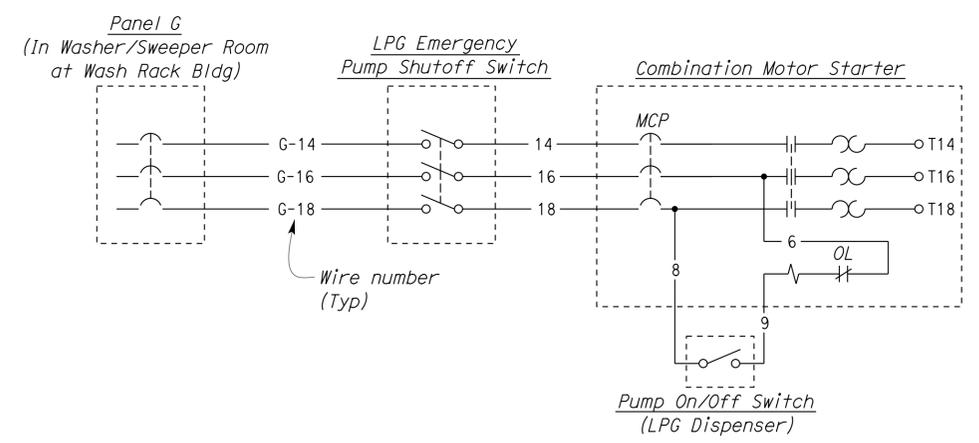
1 SIGN DETAIL
NO SCALE



B SECTION
SCALE 1" = 1'-0"



C SECTION
SCALE 1" = 1'-0"



SCHEMATIC DIAGRAM

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY Baldev S. Dehal	CHECKED Tech Ngov
DETAILS	BY Kathl Andreasen	CHECKED Baldev S. Dehal
QUANTITIES	BY Baldev S. Dehal	CHECKED Tech Ngov

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	58M5708	EL CENTRO MAINTENANCE FACILITY	SHEET EE15-1
POST MILE			
LPG DISPENSING SYSTEM		PLAN AND DETAILS	

TAEMWW Imperial Rev. 7/10

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT PROJECT NUMBER & PHASE 3597 11000000351

DISREGARD PRINTS BEARING EARLIER REVISION DATES

7/28/10	7/28/10	10/28/10	12/3/10	2/25/13	9/13/13	12/4/13
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SHEET OF

21-JAN-2014 09:06

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ABBREVIATIONS

AB	AGGREGATE BASE	IN	INCH
AC	ASPHALT CONCRETE	JB	JUNCTION BOX
B	BUNG	KW	KILOWATT
BLDG	BUILDING	L	LENGTH
C	CONDUIT	LB	POUND
C-C	CENTER TO CENTER	LS	LANDSCAPE IRRIGATION
CFS	CUBIC FEET PER SECOND	LT	LEFT
CI	CAST IRON	MAX	MAXIMUM
CL	CHAIN LINK	MBV	MOTORIZED BALL VALVE
CMP	CORRUGATED METAL PIPE	MH	MANHOLE
CONC	CONCRETE	MIN	MINIMUM
COTF	CLEANOUT TO FLOOR	(N)	NEW
COTG	CLEANOUT TO GRADE	N	NORTH
CPLG	COUPLING	NB	NORTHBOUND
CW	COLD WATER PIPE	NIC	NOT IN CONTRACT
D	DRAIN	NO	NUMBER
DBH	DIAMETER AT BREST HEIGHT	OC	ON CENTER
DI	DRAIN INLET	OD	OUTSIDE DIAMETER
DIA	DIAMETER	OG	ORIGINAL GROUND
DP	DRAIN PIPE	P	PITCH
E	ELECTRICAL	PCC	PORTLAND CEMENT CONCRETE
(E)	EXISTING	PH	PHASE
EA	EACH	PRV	PRESSURE REDUCING VALVE
EL	ELEVATION	PVC	POLYVINYL CHLORIDE
EP	EDGE OF PAVEMENT	R	RADIUS
EQ	EQUAL	RCP	REINFORCED CONCRETE PIPE
FOB	FACE OF BUILDING	REQ	REQUIRED
FF	FINISH FLOOR	rpm	REVOLUTIONS PER MINUTE
FG	FINISH GRADE	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
FL	FLOW LINE	RPU	RECYCLE PROCESS UNIT
FM	FORCE MAIN	RT	RIGHT
FOC	FACE OF CONCRETE	R/W	RIGHT-OF-WAY
FS	FLOW SWITCH	S	SEWER
FT	FEET	SB	SOUTHBOUND
FTR	FLUE THROUGH ROOF	SCH	SCHEDULE
GA	GAUGE	SD	STORM DRAIN
GAC	GRANULAR ACTIVATED CARBON	SP	SEWER PIPE
GAL	GALLON	SQ	SQUARE
GPM	GALLONS PER MINUTE	STA	STATION
GALV	GALVANIZED	STD	STANDARD
GSP	GALVANIZED STEEL PIPE	TBM	TEMPORARY BENCH MARK
GV	GATE VALVE	TOC	TOP OF CONCRETE
GS	GOVERNMENT SERVICE LINE	TOT	TOTAL
H	HEIGHT	TYP	TYPICAL
HF	HOSE FAUCET	VAC	VOLTS AC
HP	HORSEPOWER	VCP	VITRIFIED CLAY PIPE
HZ	HERTZ	W	WATER
ID	INSIDE DIAMETER	W/O	WITHOUT
IE	INVERT ELEVATION (IN FEET)	WP	WATER PIPE
		WSP	WELDED STEEL PIPE

LEGEND

	FENCE		DETAIL SHEET NUMBER
	SURFACE DRAINAGE	99.00	NEW GRADE IN FEET
	ABANDON	X (100.00)	EXISTING SPOT GRADE IN FEET
	SANITARY SEWER		BENCHMARK ELEVATION
	DRAIN		CENTERLINE
	RETURN DRAIN		DIAMETER
	VENT		SECTION / ELEVATION LETTER SHEET NUMBER
	WATER		TREE
	FORCE MAIN		DIRECTION OF TRAFFIC
	LEACH LINES		

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	5708		346	354

Jerome R. Marcotte 12-04-13
 REGISTERED CIVIL ENGINEER DATE
 01-06-14
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 J. MARCOTTE
 No. C36844
 Exp. 06-30-14
 CIVIL
 STATE OF CALIFORNIA

CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *Francis Solich*
 Approval date: 11-29-2013
 CSFM No. 01-13-11-0025

PIPE FITTINGS AND VALVES

	CAP
	ELBOW, TURNED DOWN
	FLEXIBLE CONNECTOR
	REDUCER, CONCENTRIC
	REDUCER, ECCENTRIC
	PRESSURE GAUGE (WITH VALVE AND SNUBBER)
	UNION
	UNION, INSULATING
	VALVE, BALL
	VALVE, CHECK
	VALVE, GATE
	VALVE, SAFETY RELIEF
	VALVE, PRESSURE REDUCING
	HOSE FAUCET

GENERAL WORK NOTES

The Contractor shall verify all controlling field dimensions and conditions before ordering or fabricating any materials.

The Contractor shall verify exact location of all underground facilities and utilities prior to start of construction.

No 90 degree bends allowed on drain or sewer pipe. Where 90 degree bends are shown, use two 45 degree bends.

DESIGN BY Amar Baidwan CHECKED Jerry Marcotte DETAILS BY Amar Baidwan CHECKED Jerry Marcotte QUANTITIES BY Amar Baidwan CHECKED Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 58M5708 POST MILE	EL CENTRO MAINTENANCE FACILITY NOTES, LEGEND & ABBREVIATION	SHEET SS-1 OF
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3616 CONTRACT No.: 11-076701 PROJECT NUMBER & PHASE: 110000351	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 7-26-13 9-13-13 11-15-13 12-04-13	SHEET OF

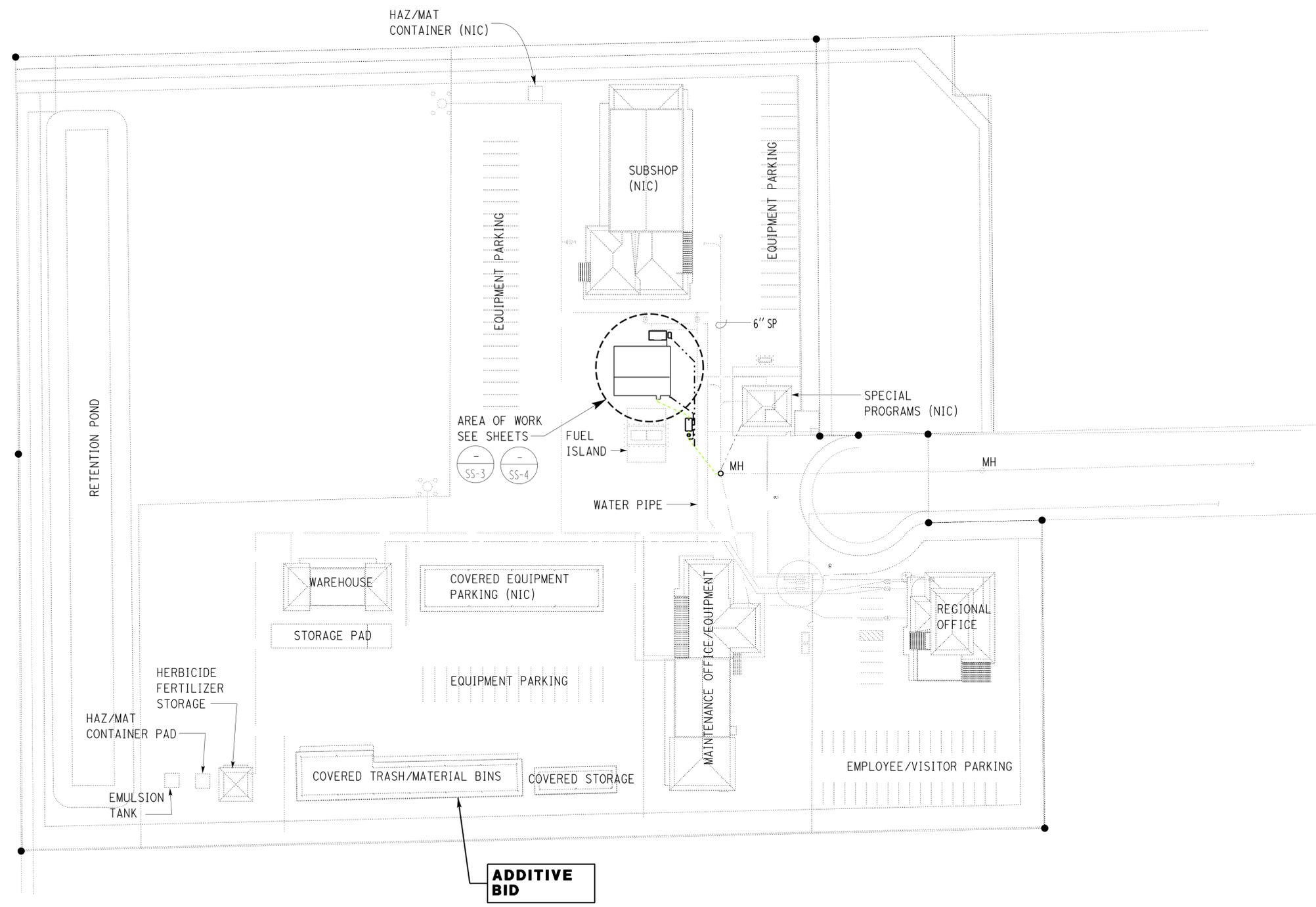
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<i>Jerome R. Marcotte</i> REGISTERED CIVIL ENGINEER			12-04-13 DATE	REGISTERED PROFESSIONAL ENGINEER J. MARCOTTE No. C36844 Exp. 06-30-14 CIVIL STATE OF CALIFORNIA	
01-06-14 PLANS APPROVAL DATE					
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Reviewed by: *Francis Solich*
 FRANCIS SOLICH
 Approval date: 11-29-2013
 CSFM No. 01-13-11-0025



SITE PLAN
 SCALE: 1" = 50'-0"

DESIGN SUPERVISOR <i>And Schoff</i> DESIGN ENGINEER <i>Jerome R. Marcotte</i>	DESIGN	BY Amar Baidwan	CHECKED Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	EL CENTRO MAINTENANCE FACILITY SITE PLAN	SHEET SS-2
	DETAILS	BY Amar Baidwan	CHECKED Jerry Marcotte			POST MILE		
	QUANTITIES	BY Amar Baidwan	CHECKED Jerry Marcotte					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	UNIT: 3616 CONTRACT No.: 11-076701 PROJECT NUMBER & PHASE: 110000351	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 7-26-13 9-13-13 11-15-13 12-04-13	SHEET OF

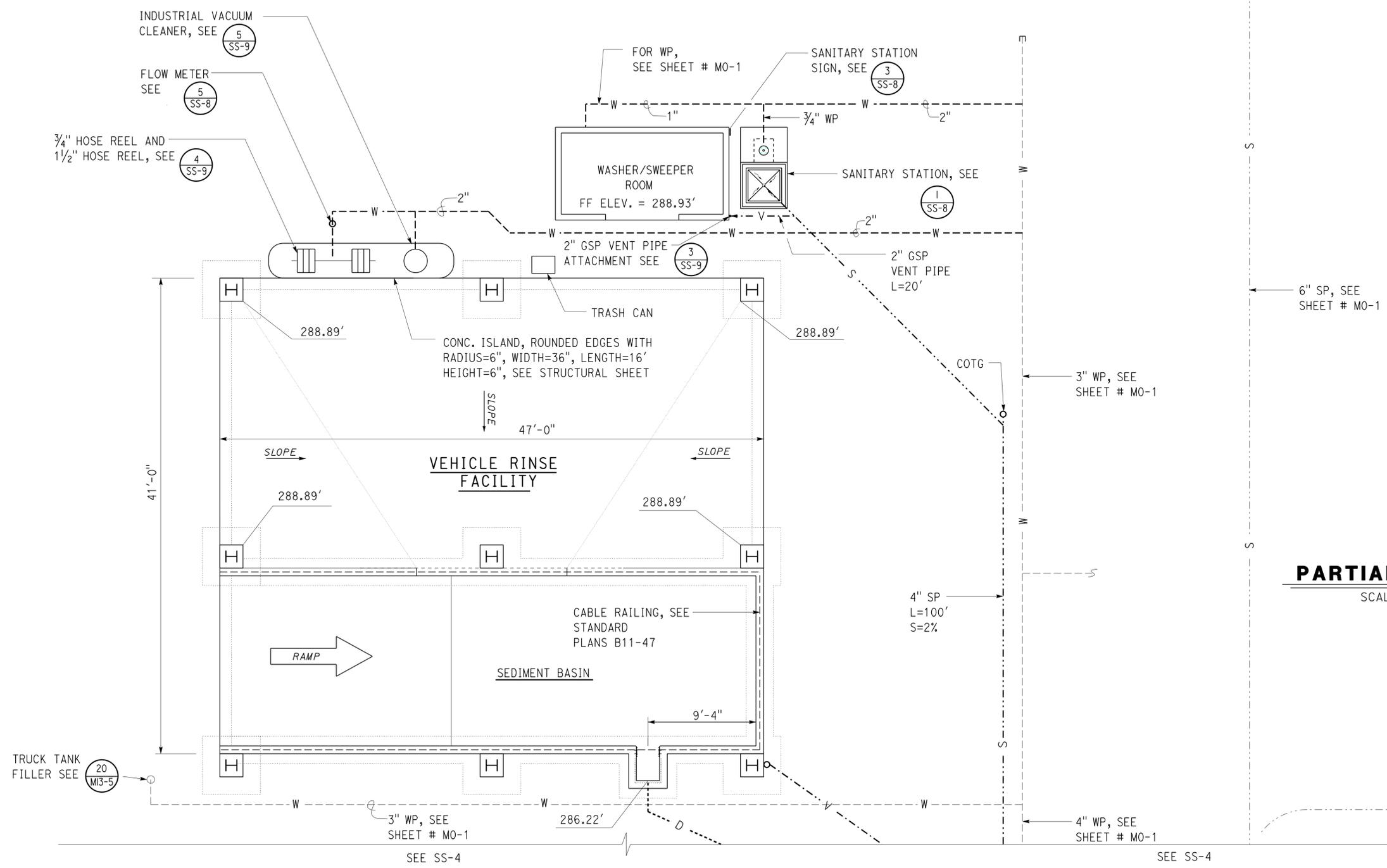
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Jerome R. Marcotte 12-04-13
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REGISTERED PROFESSIONAL ENGINEER
 J. MARCOTTE
 No. C36844
 Exp. 06-30-14
 CIVIL
 STATE OF CALIFORNIA

NOTE
 1. For outside slope for washrack see (1) SS-9

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 Approval date: 11-29-2013
 CSFM No. 01-13-11-0025



PARTIAL SITE PLAN
 SCALE: 1" = 5'-0"



SPECIAL PROGRAMS (NIC)

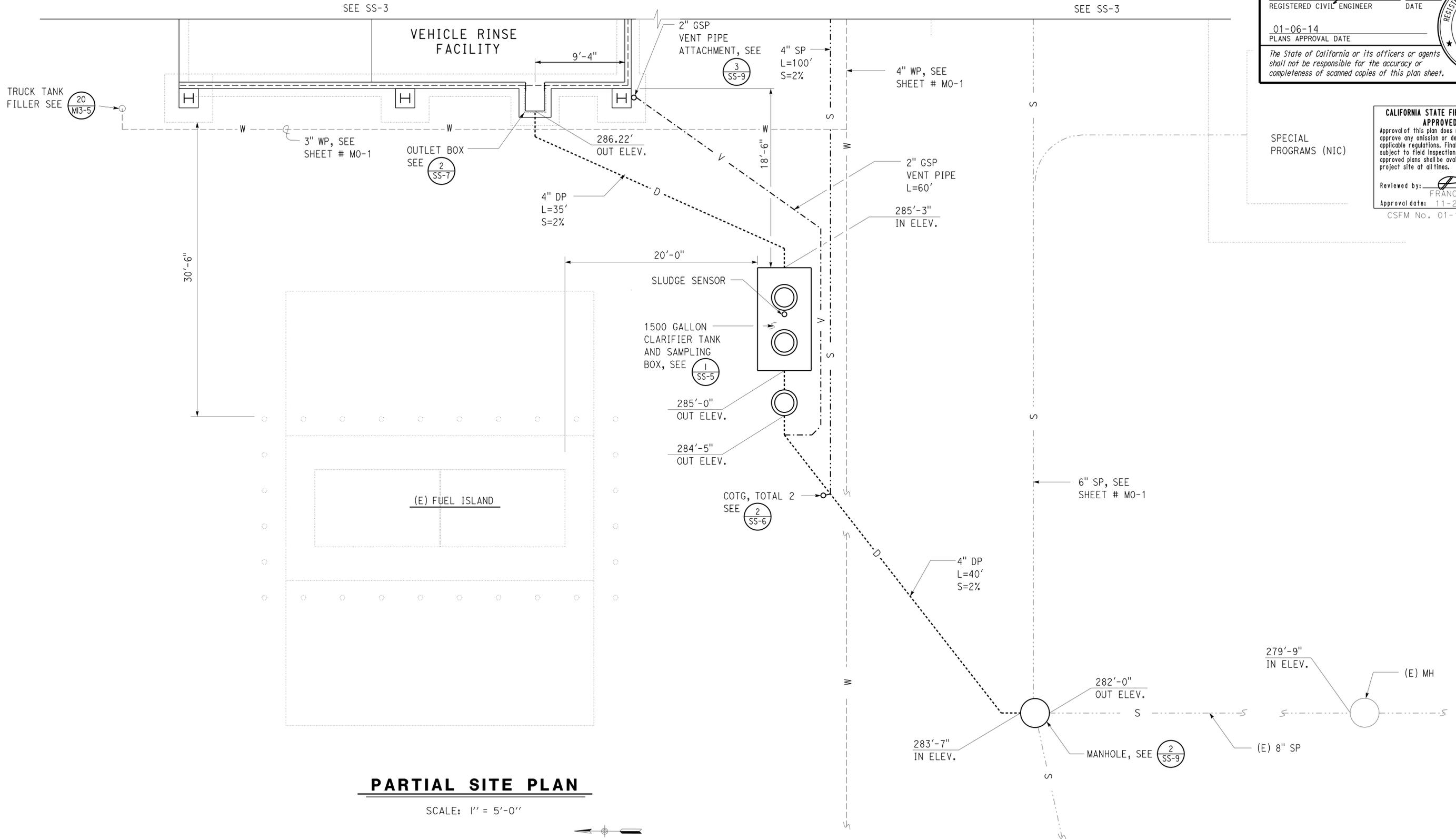
DESIGN	BY Amar Baidwan	CHECKED Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	EL CENTRO MAINTENANCE FACILITY VEHICLE RINSE FACILITY DETAILS-I	SHEET
	DETAILS BY Amar Baidwan	CHECKED Jerry Marcotte			58M5708		OF SS-3
	QUANTITIES BY Amar Baidwan	CHECKED Jerry Marcotte			POST MILE		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT: 3616 CONTRACT No.: 11-076701 PROJECT NUMBER & PHASE: 110000351	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

TAEWW Imperial - CCSC Rev. 02/13
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 STATE OF CALIFORNIA



CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: FRANCIS SOLICH
 Approval date: 11-29-2013
 CSFM No. 01-13-11-0025

PARTIAL SITE PLAN
 SCALE: 1" = 5'-0"

DESIGN	BY Amar Baidwan	CHECKED Jerry Marcotte
DETAILS	BY Amar Baidwan	CHECKED Jerry Marcotte
QUANTITIES	BY Amar Baidwan	CHECKED Jerry Marcotte

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE No. 58M5708
 POST MILE

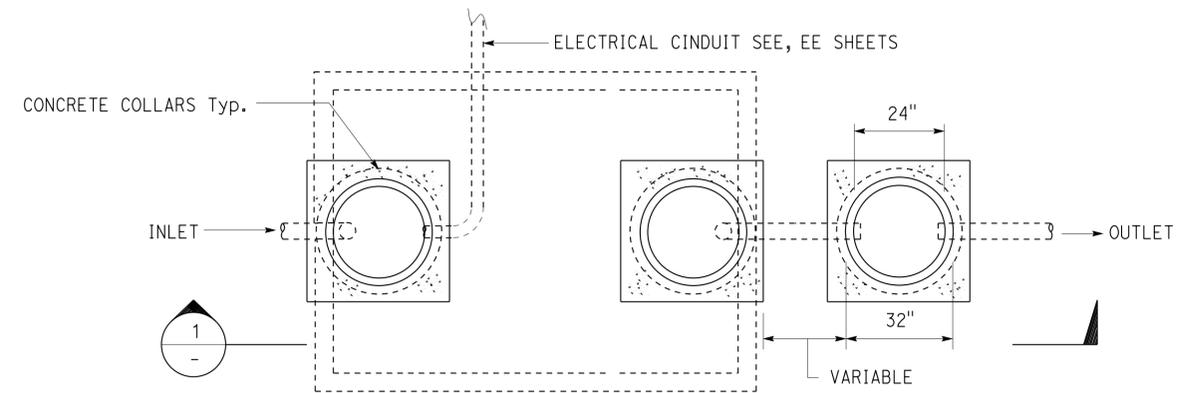
EL CENTRO MAINTENANCE FACILITY
 VEHICLE RINSE FACILITY DETAILS-2

SHEET **SS-4** OF

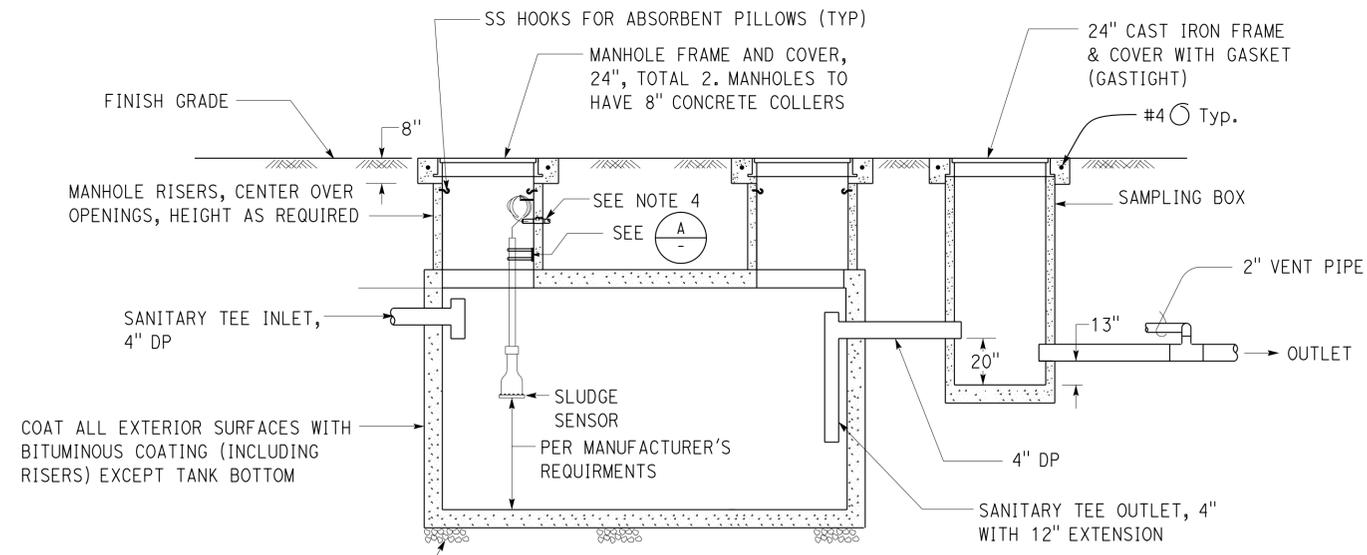
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	5708		350	354
<i>Jerome R. Marcotte</i> REGISTERED CIVIL ENGINEER			12-04-13 DATE	REGISTERED PROFESSIONAL ENGINEER J. MARCOTTE No. C36844 Exp. 06-30-14 CIVIL STATE OF CALIFORNIA	
01-06-14 PLANS APPROVAL DATE					
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Notes:

1. Tank dimensions to be per manufacturer.
2. Install one oil absorbent pillow in the first chamber of clarifier tank.
3. For electrical, see EE-sheets. Follow tank manufacturer's instructions for riser wall openings.
4. Contractor to coordinate location of underground conduits before commencing excavation. Terminate conduits as necessary for proper installation of tanks. Provide putty to seal conduit openings inside the tank riser walls.



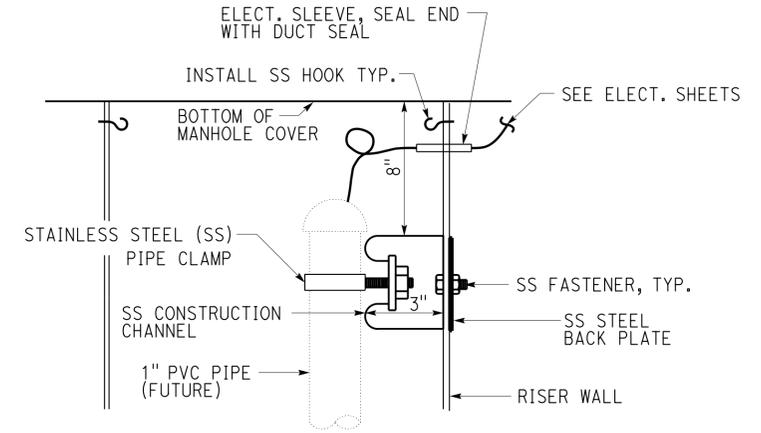
PLAN



1 SECTION

1500 GALLON CLARIFIER TANK

NO SCALE



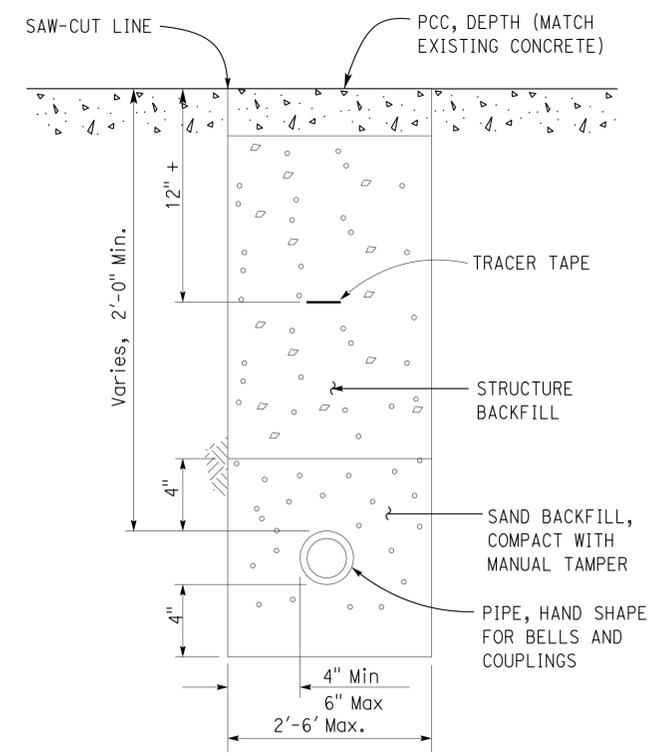
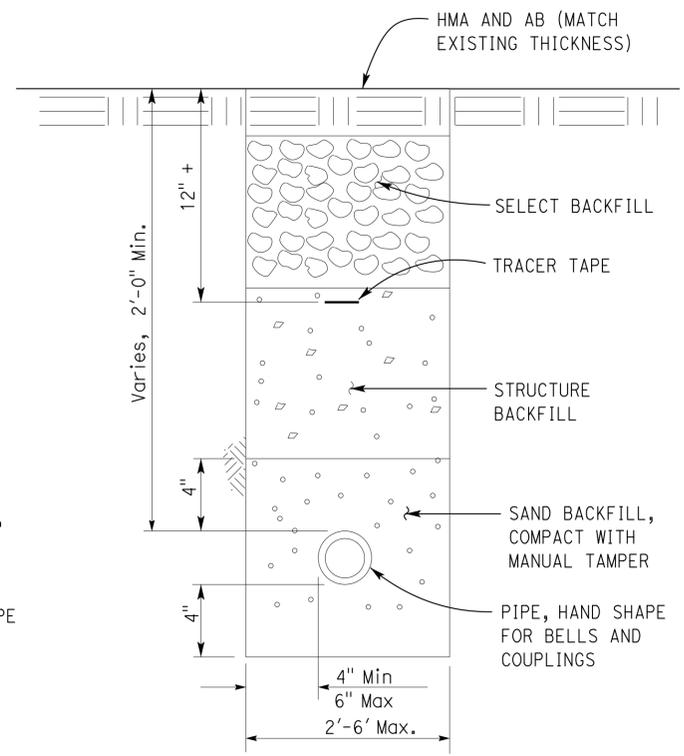
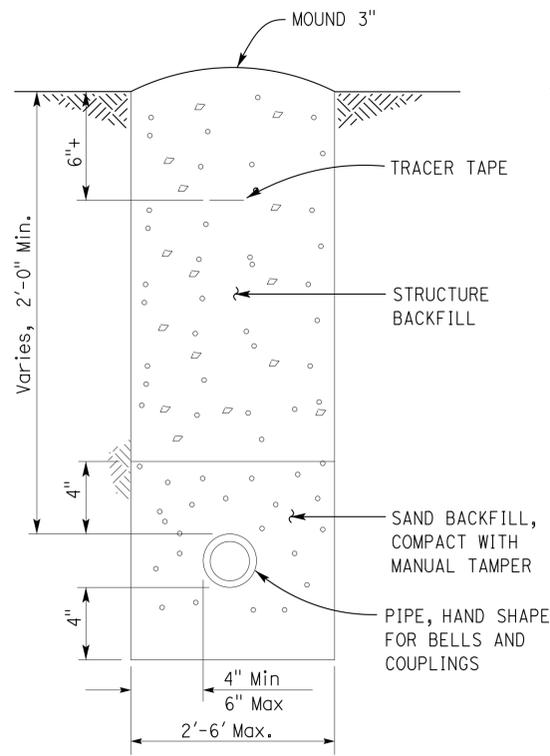
(A) SLUDGE SENSOR DETAIL

DESIGN	BY	Amar Baidwan	CHECKED	Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	58M5708	EL CENTRO MAINTENANCE FACILITY CLARIFIER TANK	SHEET	OF		
	DETAILS	BY	Amar Baidwan	CHECKED			Jerry Marcotte	POST MILE			SS-5		
QUANTITIES	BY	Amar Baidwan	CHECKED	Jerry Marcotte	UNIT: 3616	CONTRACT No.: 11-076701	DISREGARD PRINTS BEARING EARLIER REVISION DATES	7-26-13	9-13-13	11-15-13	12-04-13	SHEET	OF
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	REVISION DATES (PRELIMINARY STAGE ONLY)				

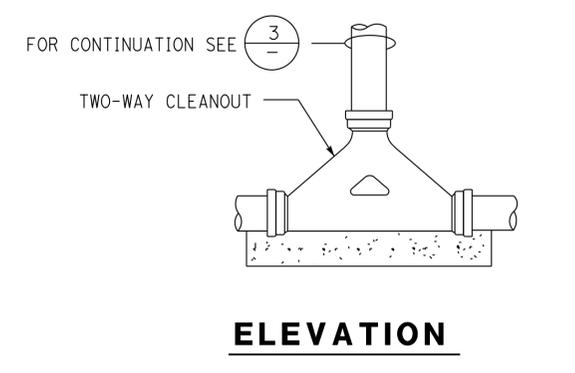
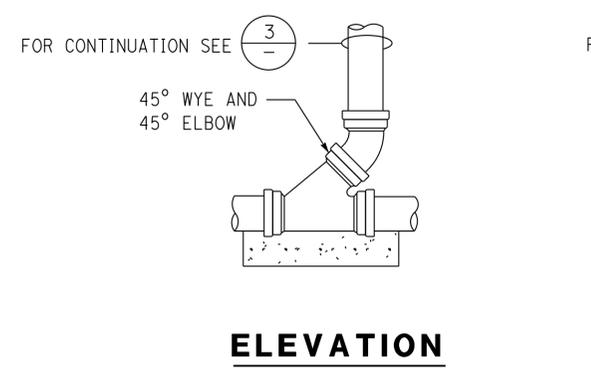
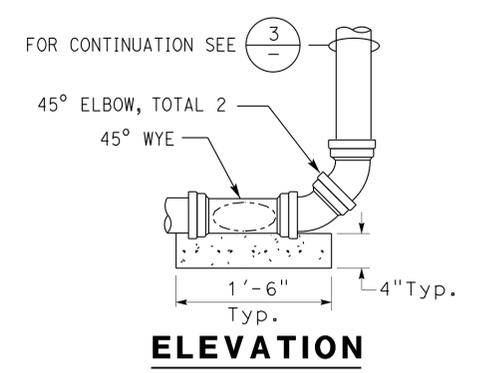
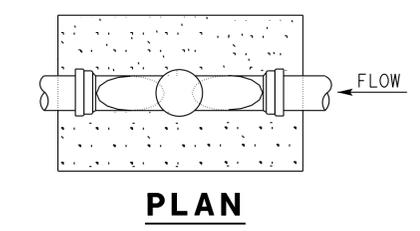
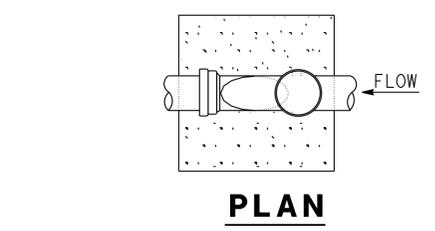
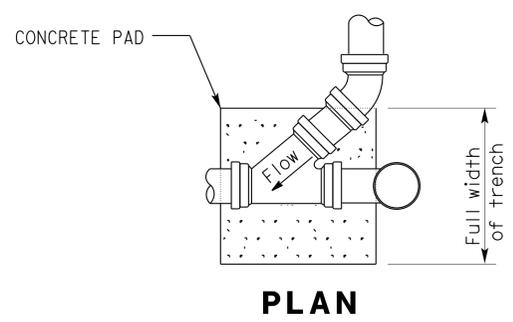
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	5708		351	354

Jerome R. Marcotte 12-04-13
 REGISTERED CIVIL ENGINEER DATE
 01-06-14
 PLANS APPROVAL DATE
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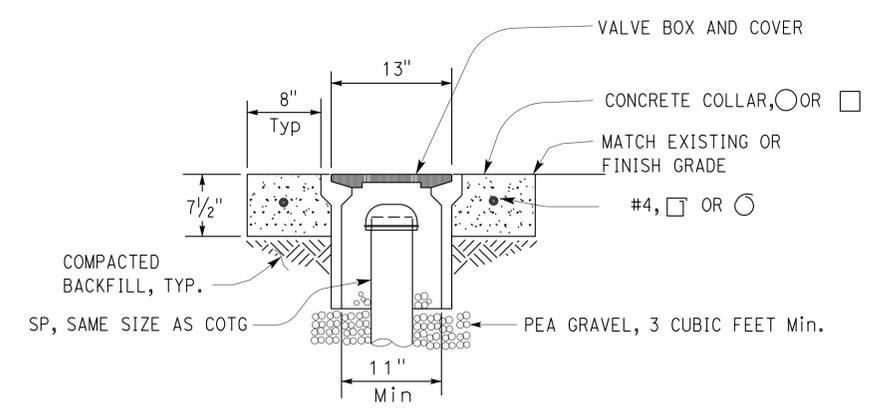
REGISTERED PROFESSIONAL ENGINEER
 J. MARCOTTE
 No. C36844
 Exp. 06-30-14
 CIVIL
 STATE OF CALIFORNIA



1 UNDERGROUND DRAIN/ SEWER PIPE
NO SCALE



2 CLEANOUT TO GRADE - GRAVITY
NO SCALE



3 COTG ACCESS BOX
NO SCALE

NOTE:
CONCRETE PAD SHOWN TYPICAL FOR ALL CLEANOUTS

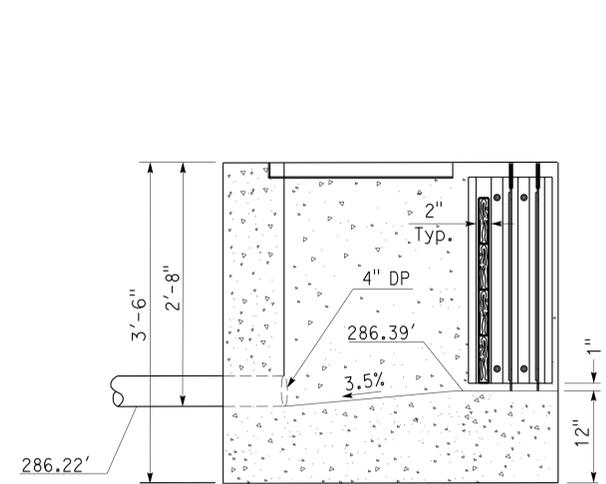
DESIGN BY Amar Baidwan CHECKED Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE No. 58M5708	EL CENTRO MAINTENANCE FACILITY	SHEET	
DETAILS BY Amar Baidwan CHECKED Jerry Marcotte		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE		DETAILS-I	SS-6
QUANTITIES BY Amar Baidwan CHECKED Jerry Marcotte		UNIT: 3616 CONTRACT No.: 11-076701 PROJECT NUMBER & PHASE: 110000351	DISREGARD PRINTS BEARING EARLIER REVISION DATES			

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 TAEWW Imperial - CCSC Rev. 02/13
 M:\fbpse25\proj\add\11-076701\structure\6\ss_06.dgn

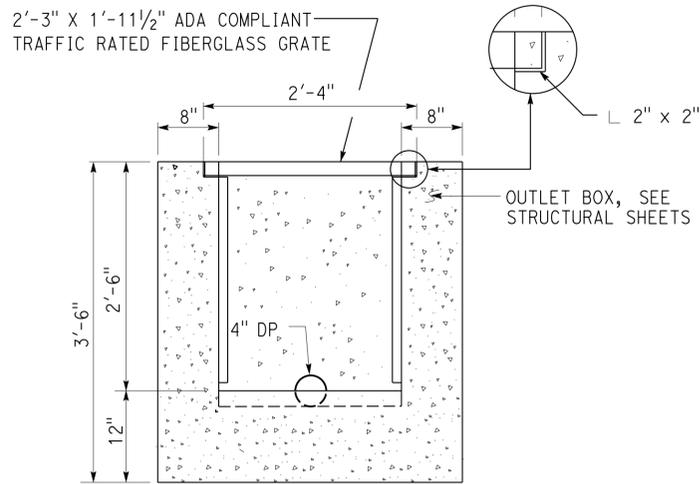
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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Jerome R. Marcotte 12-04-13
 REGISTERED CIVIL ENGINEER DATE
 01-06-14
 PLANS APPROVAL SHEET
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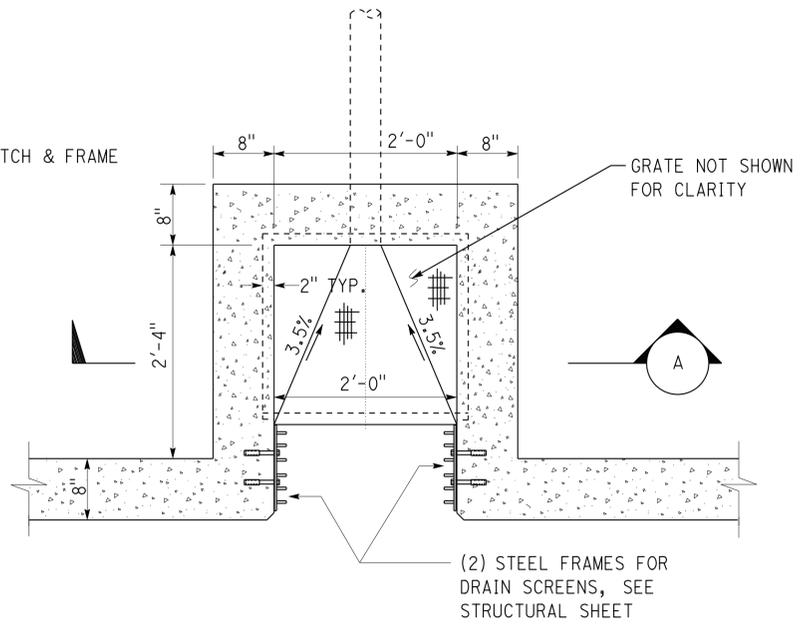
REGISTERED PROFESSIONAL ENGINEER
 J. MARCOTTE
 No. C36844
 Exp. 06-30-14
 CIVIL
 STATE OF CALIFORNIA



SIDE VIEW

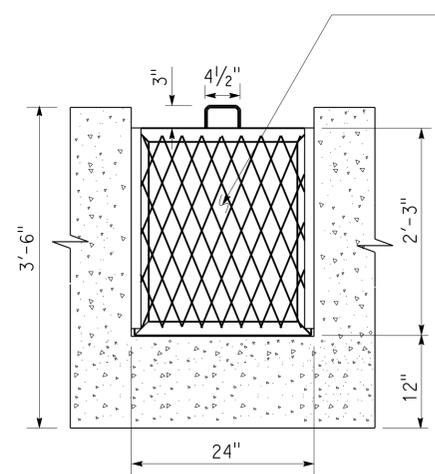


A SECTION

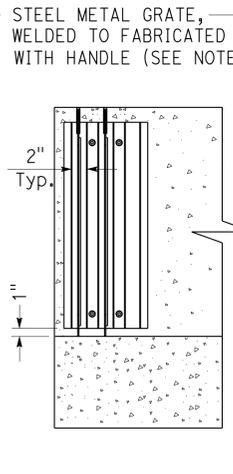


PLAN VIEW

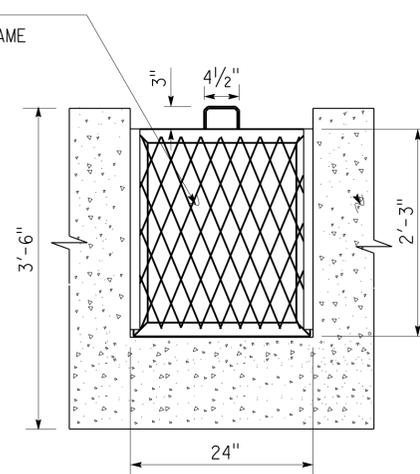
1 OUTLET BOX
1"=1'-0"



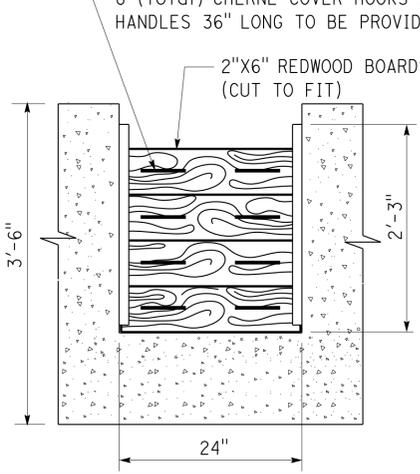
FRONT VIEW
FIRST SLOT



SIDE VIEW



FRONT VIEW
SECOND SLOT

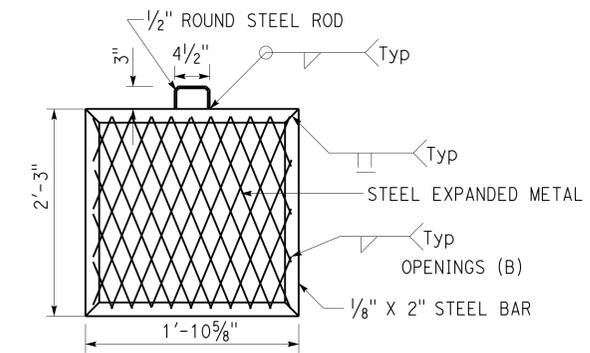


FRONT VIEW
THIRD SLOT

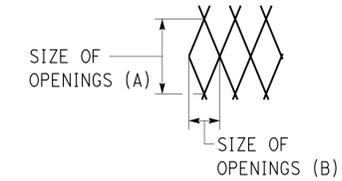
2 DRAIN SCREEN FILTER
1"=1'-0"

- Note:
- For First Slot, Style 1/2" #13 Expanded Metal, size of openings to be:
(A) = 2 1/2" X (B) = 1 3/16"
 - For Second Slot, Style 3/4" #13 Expanded Metal, size of openings to be:
(A) = 1 1/16" X (B) = 3/4"
 - See Screen Fabrication Detail

NOTE:
S.S. HANDLE (2) PER BOARD (8 Total)
8 (Total) CHERNE COVER HOOKS WITH 90° HANDLES 36" LONG TO BE PROVIDED.



SCREEN FABRICATION DETAIL
(Typ) FOR FIRST AND SECOND SCREENS
(SEE NOTES FOR OPENING SIZES)

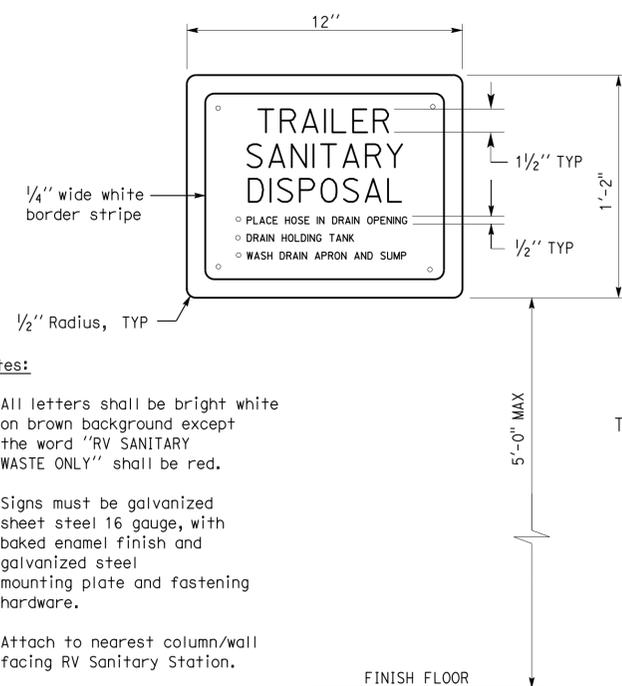


DESIGN BY Amar Baidwan	CHECKED Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE No. 58M5708	EL CENTRO MAINTENANCE FACILITY DETAILS-2	SHEET	
DETAILS BY Amar Baidwan	CHECKED Jerry Marcotte		POST MILE		SS-7	
QUANTITIES BY Amar Baidwan	CHECKED Jerry Marcotte					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			UNIT: 3616 CONTRACT No.: 11-076701 PROJECT NUMBER & PHASE: 110000351	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
TAEWW Imperial - CCSC Rev. 02/13			7-26-13 9-13-13 11-15-13 12-04-13		21-JAN-2014 09:02	

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	5708		353	354

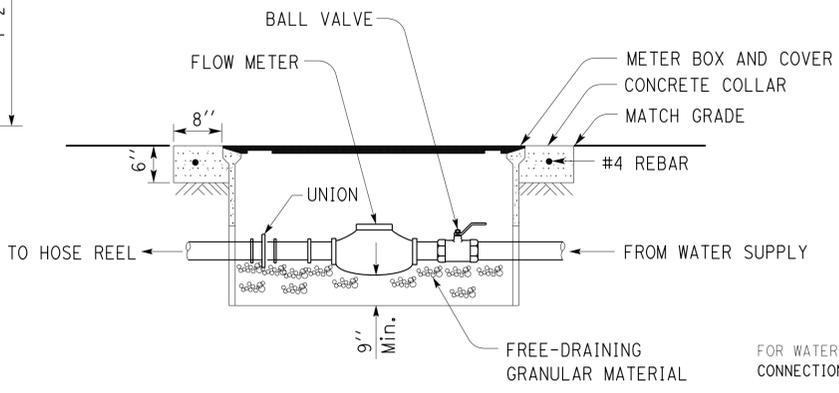
Jerome R. Marcotte 12-04-13
 REGISTERED CIVIL ENGINEER DATE
 01-06-14
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 J MARCOTTE
 No. C36844
 Exp. 06-30-14
 CIVIL
 STATE OF CALIFORNIA

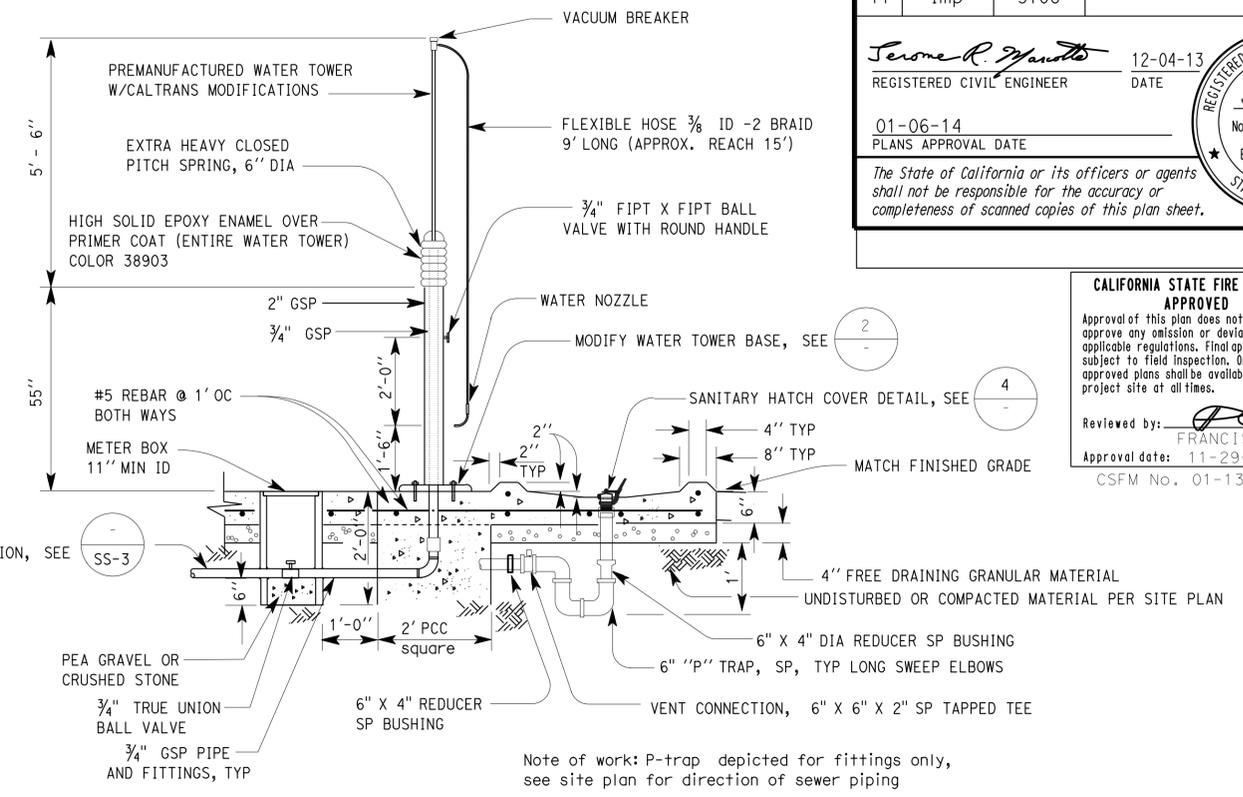


- Notes:
- All letters shall be bright white on brown background except the word "RV SANITARY WASTE ONLY" shall be red.
 - Signs must be galvanized sheet steel 16 gauge, with baked enamel finish and galvanized steel mounting plate and fastening hardware.
 - Attach to nearest column/wall facing RV Sanitary Station.

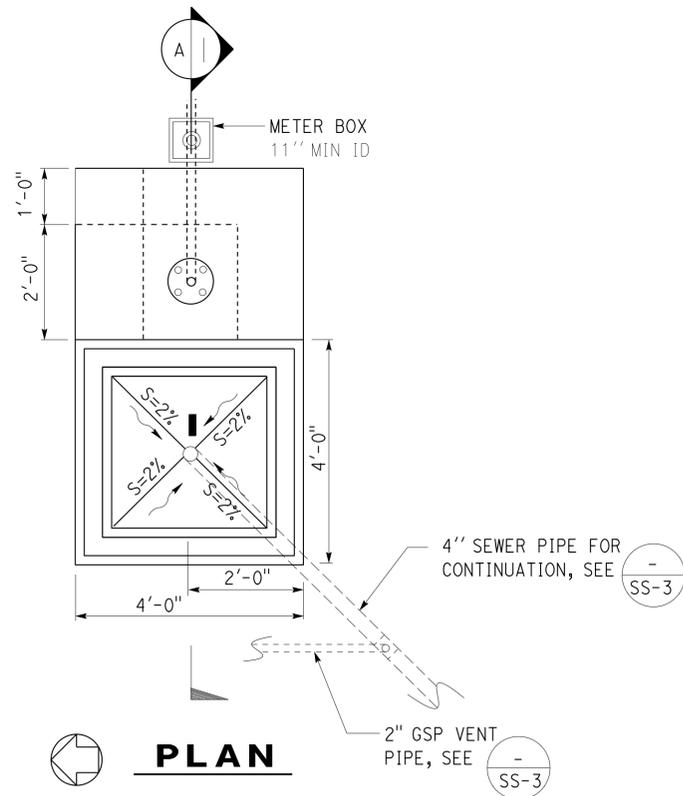
3 SANITARY STATION SIGN
NO SCALE



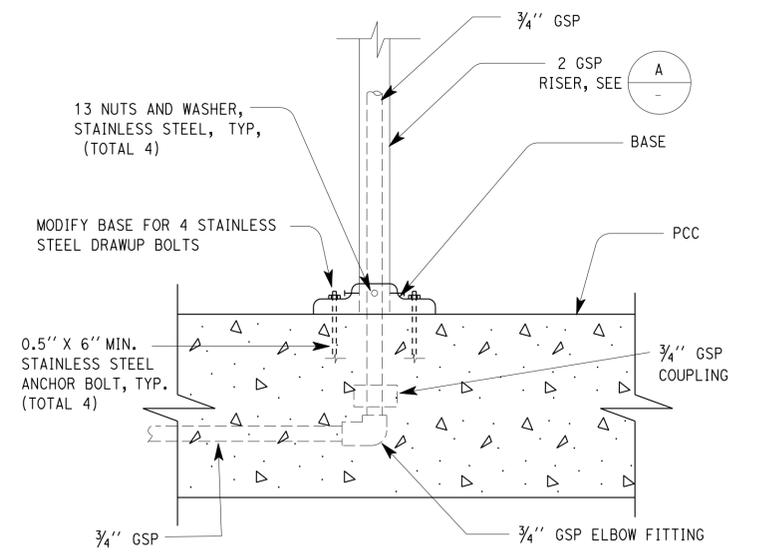
5 FLOW METER
NO SCALE
NOTE: Min. 9" clearance on all sides



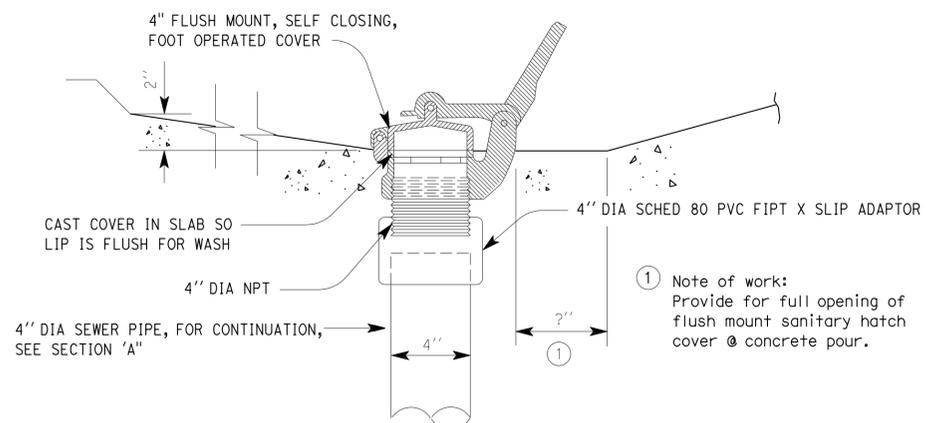
A SECTION
NO SCALE



1 SANITARY STATION DUMP
NO SCALE



2 WATER TOWER BASE (MODIFIED)
NO SCALE



4 SANITARY HATCH COVER
NO SCALE
Note of work: Provide for full opening of flush mount sanitary hatch cover @ concrete pour.

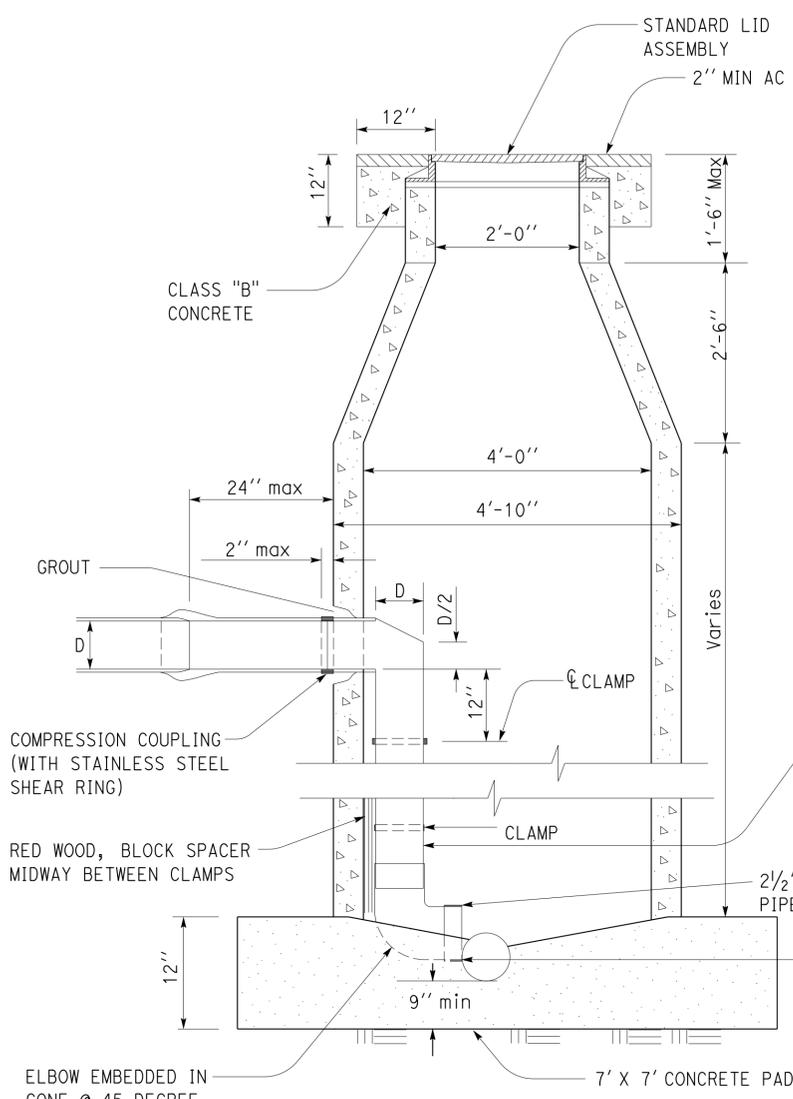
DESIGN	BY Amar Baidwan	CHECKED Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	EL CENTRO MAINTENANCE FACILITY DETAILS-3	SHEET	
DETAILS	BY Amar Baidwan	CHECKED Jerry Marcotte			58M5708		POST MILE	SS-8
QUANTITIES	BY Amar Baidwan	CHECKED Jerry Marcotte						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT: 3616 CONTRACT No.: 11-076701 PROJECT NUMBER & PHASE: 110000351	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	
TAEWW Imperial - CCSC Rev. 02/13					7-26-13 9-13-13 11-15-13 12-04-13		21-JAN-2014 09:02	

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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Jerome R. Marcotte
 REGISTERED CIVIL ENGINEER
 DATE 12-04-13
 No. C36844
 Exp. 06-30-14
 CIVIL
 STATE OF CALIFORNIA

01-06-14
 PLANS APPROVAL DATE

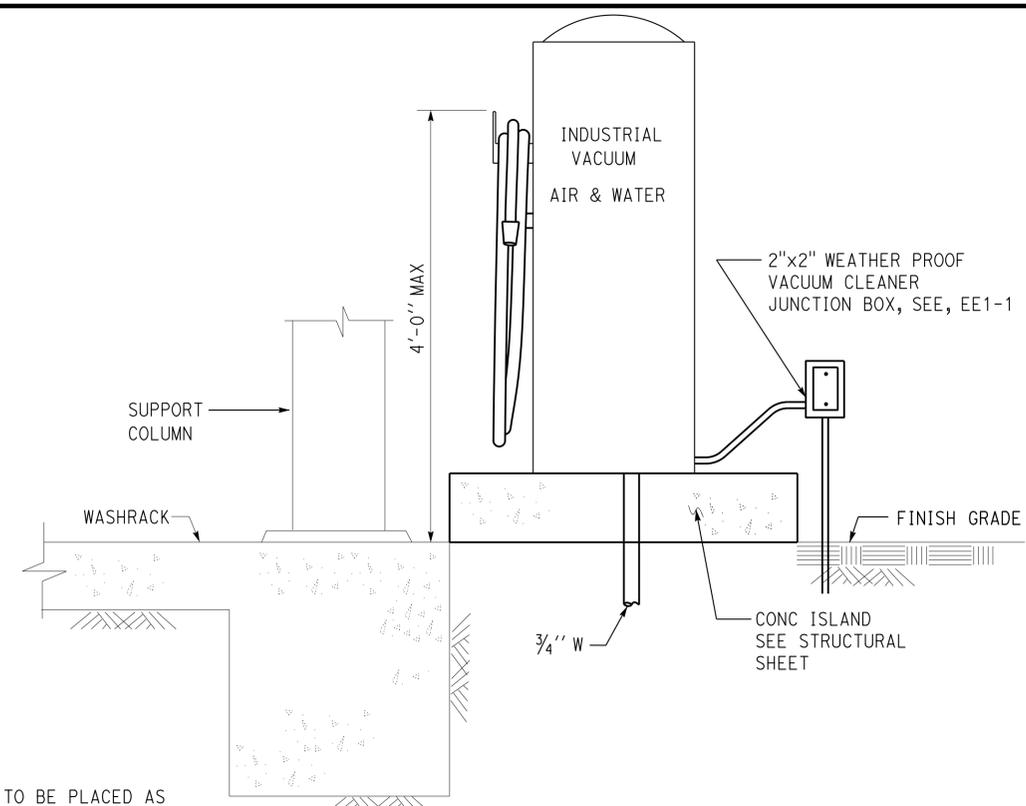
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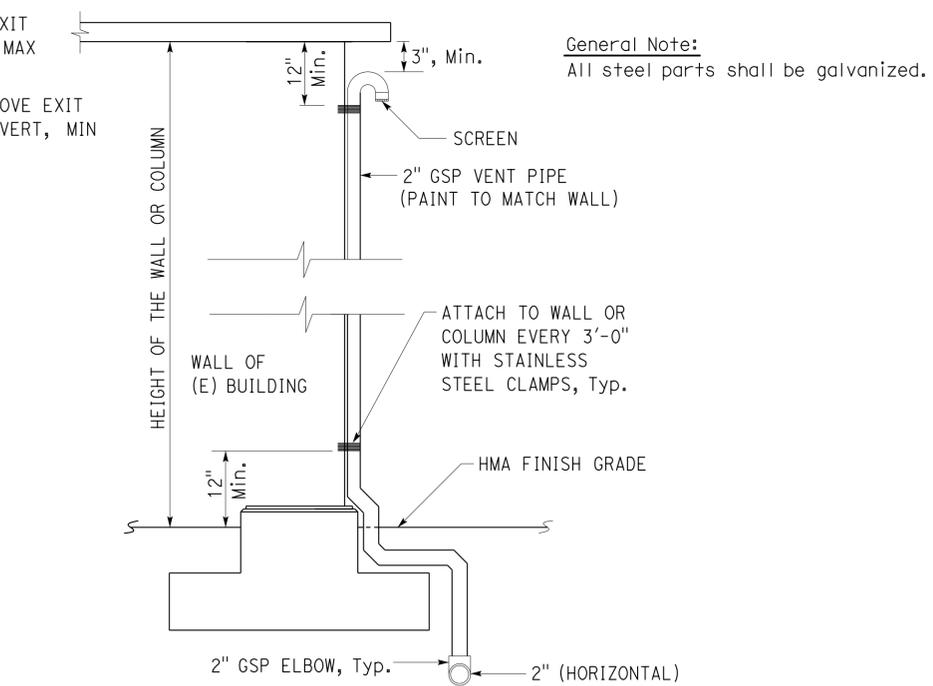
2 SANITARY SEWER MANHOLE
NO SCALE

NOTES:

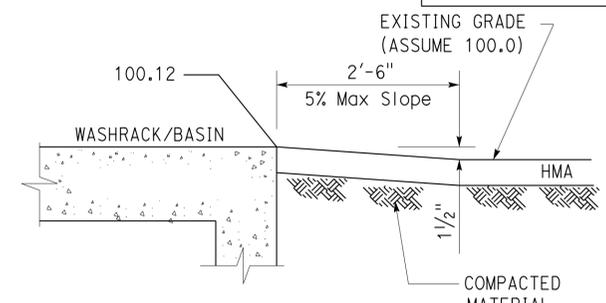
- All inside drop piping to be PVC
- Cement all joints.
- Drop connection pipe and fittings to be same size as lateral.
- Clamps to be 1 3/5" x 1/10" stainless steel anchored to MH wall with 2 1/2" cadmium plated bolts.
- Use drop connection whenever invert of connecting sewer is 24" or more above MH invert.



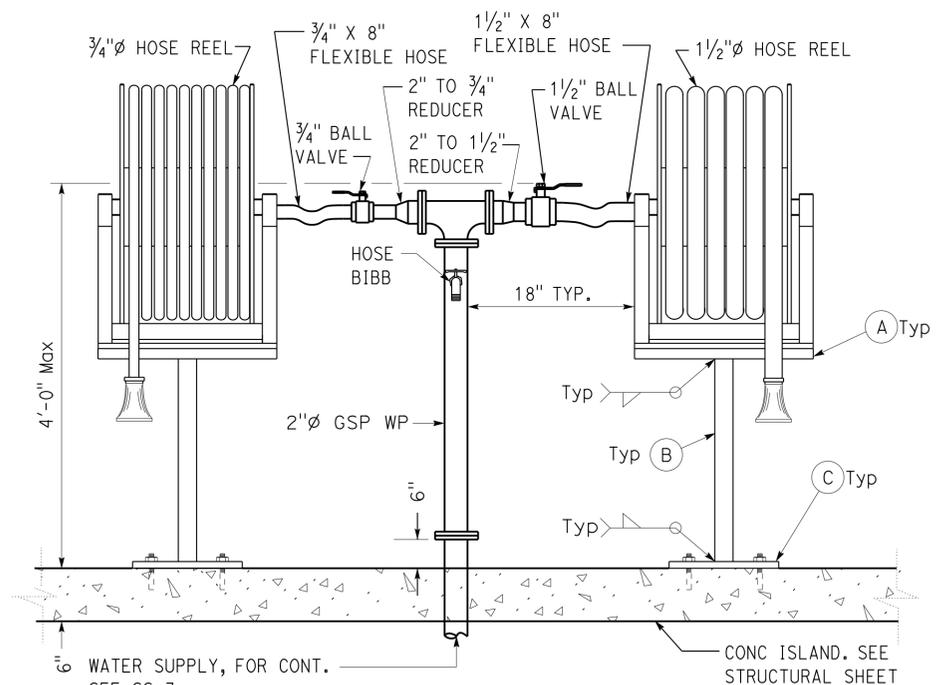
5 VACUUM FOUNDATION DETAIL
NO SCALE



3 VENT PIPE ON WALL OR COLUMN
NO SCALE



1 OUTSIDE SLOPE FOR WASHRACK
NO SCALE



4 HOSE REEL DETAIL
NO SCALE

FABRICATION NOTES TYP:

- (A) 1/4" steel plate, size per template from reel manufacturer.
- (B) 3" square steel tube.
- (C) 9"x9"x1/4" steel plate. Secure with 4-3/8" x 3" bolts with washers, Paint color to match equipment bldg. Avoid hydronic heating tubing when securing steel plate.
- (D) 9"x9"x1/4" steel plate. Secure with 4-3/8" x 3" bolts with washers, Paint color to match equipment bldg. Avoid hydronic heating tubing when securing steel plate.

DESIGN BY Amar Baidwan	CHECKED Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 58M5708	EL CENTRO MAINTENANCE FACILITY DETAILS-4	SHEET
DETAILS BY Amar Baidwan	CHECKED Jerry Marcotte		POST MILE			SS-9
QUANTITIES BY Amar Baidwan	CHECKED Jerry Marcotte		UNIT: 3616 CONTRACT No.: 11-076701 PROJECT NUMBER & PHASE: 110000351	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 TAEWW Imperial - CCSC Rev. 02/13
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