

GRAPHIC SYMBOLS FOR ELECTRICAL WIRING AND LAYOUT DIAGRAMS

SYMBOL	DESCRIPTION
	POLE-TOP ELECTROLIER
	POLE-ARM ELECTROLIER
CEILING WALL	
	SURFACE FLUORESCENT, METAL HALIDE, OR SODIUM VAPOR FIXTURE
	RECESSED FLUORESCENT, METAL HALIDE, OR SODIUM VAPOR FIXTURE
	EXIT LIGHT
	SURFACE OR PENDANT INDIVIDUAL FLUORESCENT FIXTURE
	RECESSED INDIVIDUAL FLUORESCENT FIXTURE
	SURFACE OR PENDANT CONTINUOUS ROW FLUORESCENT FIXTURES
NOTE:	A LOWER CASE LETTER NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES THAT FIXTURE IS CONTROLLED BY A SIMILARLY MARKED SWITCH, AN ALPHA-NUMERIC SYMBOL NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES FIXTURE TYPE, (I=INCANDESCENT, F=FLUORESCENT, MH=METAL HALIDE, H=HIGH PRESSURE SODIUM VAPOR), DESIGN TYPE, NUMBER OF LAMPS AND WATTAGE.
EXAMPLE :	(4) F2-2x32
	BLANK OUTLET
	JUNCTION BOX
	DROP CORD
	SINGLE RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET (WITH GFCI)
	DUPLEX RECEPTACLE OUTLET, WEATHERPROOF (WITH GFCI)
	SINGLE, SPECIAL PURPOSE RECEPTACLE OUTLET
	DUPLEX, SPECIAL PURPOSE RECEPTACLE OUTLET
	RANGE OUTLET
	CLOCK HANGER RECEPTACLE
	FAN HANGER RECEPTACLE
	FLOOR SINGLE RECEPTACLE OUTLET
	FLOOR DUPLEX RECEPTACLE OUTLET
	FLOOR SPECIAL PURPOSE OUTLET
	FLOOR RADIO OUTLET
	FLOOR TELEPHONE OUTLET
	MULTI-FLOOR OUTLET, 2 OR MORE GANG
	MULTI-OUTLET ASSEMBLY
	SWITCH AND SINGLE RECEPTACLE
	SWITCH AND DUPLEX RECEPTACLE
	RADIO OUTLET
	COMMUNICATION OUTLET
	SOUND SYSTEM LOUD SPEAKER OUTLET
	RADIO OUTLET
	TELEVISION OUTLET
	MICROPHONE OUTLET
	THERMOSTAT

SYMBOL	DESCRIPTION
S	SINGLE-POLE SWITCH
S2	DOUBLE-POLE SWITCH
S3	THREE-WAY SWITCH
S4	FOUR-WAY SWITCH
SD	AUTOMATIC DOOR
SK	KEY OPERATED SWITCH
SP	SWITCH AND PILOT LIGHT
SMC	MOMENTARY CONTACT SWITCH
SR	REMOTE CONTROL SWITCH
SWP	WEATHERPROOF SWITCH
SF	FAN SWITCH
SL	LIGHT SWITCH
SH	HEATER SWITCH
Svs	VARIABLE SPEED MOTOR CONTROL SWITCH
SCHLF	TWO TIMER SWITCHES, ONE SWITCH FOR LIGHT AND FAN AND ONE SWITCH FOR HEAT LAMP
S1	OCCUPANCY SENSOR WALL SWITCH, SINGLE LEVEL
S2	OCCUPANCY SENSOR WALL SWITCH, BILEVEL
SM	MOTION SENSOR SWITCH
ST	MANUAL MOTOR STARTING SWITCH, THERMAL OVERLOAD TYPE
SHP	MANUAL MOTOR STARTING SWITCH, WITHOUT OVERLOAD ELEMENT
Ts	TIMER SWITCH
	PUSHBUTTON
	PUSHBUTTON STATION, NC, WITH LOCKING DEVICE FOR OPEN
	PUSHBUTTON STATION MOTOR CONTROL
	BUZZER
	BELL
	COMBINATION BELL-BUZZER
	PRESSURE SWITCH
	CONTROL RELAY
	FLOW SWITCH
	PHOTOELECTRIC UNIT
	HAND DRYER NOZZLE
	HAND DRYER
	FLUSH-MOUNTED PANELBOARD AND CABINET
	SURFACE-MOUNTED PANELBOARD AND CABINET
	LIGHTING PANEL
	POWER PANEL
	COMBINATION LIGHTING AND POWER
	MOTOR CONTROLLER
	DISCONNECT SWITCH
	CONDUIT CONCEALED IN CEILING OR WALL
	CONDUIT CONCEALED IN FLOOR
	CONDUIT EXPOSED
	CROSS-LINES INDICATE NUMBER OF #12 AWG CONDUCTORS. LONGER CROSS-LINE INDICATES 1#12 AWG (G) FOR EQUIPMENT GROUNDING CONDUCTOR. NO CROSS-LINE INDICATES 2#12 WITH 1#12 (G) UNLESS OTHERWISE NOTED. ALL CONDUIT SIZE MUST BE 1/2" UNLESS OTHERWISE NOTED.
	HOMERUN TO PANELBOARD, ARROWS INDICATE NUMBER OF CIRCUITS, LETTER DENOTES PANELBOARD, NUMERAL DENOTES CIRCUIT

SYMBOL	DESCRIPTION
	SURFACE METAL RACEWAY
	CONDUCTOR INFO (PER CONDUIT) CONDUIT TYPE CONDUIT SIZE NUMBER OF CONDUITS (NO NUMBER INDICATES ONE CONDUIT)
	CONDUIT, RIGID STEEL, UNDERGROUND
	CONDUIT, POLYVINYL CHLORIDE, UNDERGROUND
	CONDUIT, FLEXIBLE
	CONDUIT, TURN UP
	CONDUIT, TURN DOWN
	CONDUIT SEAL, EXPLOSION-PROOF
	CONDUIT, EXPANSION JOINT
	ADAPTER, ONE TYPE CONDUIT TO ANOTHER
	POLE
	OCCUPANCY SENSOR
	OCCUPANCY SENSOR POWER PACK
	MANUAL PULL STATION
	AUDIO/VISUAL ALARM DEVICE
	HEAT DETECTOR
	SMOKE DETECTOR
	GLASS BREAK DISCRIMINATOR
	MAGNETIC CONTACT SWITCH-PEDESTRIAN DOOR
	MAGNETIC CONTACT SWITCH-VEHICLE DOOR
	KEYPAD FOR ALARM SYSTEM
	COMBINATION DETECTOR (MICROWAVE/PASSIVE INFRARED)
	PULL BOX-LETTER INDICATES TYPE OF PULL BOX (E-ELECTRICAL, T-TELEPHONE, R-RADIO)
	PULL BOX (TRAFFIC-RATED)-LETTER INDICATES TYPE OF PULL BOX (E-ELECTRICAL, T-TELEPHONE, R-RADIO)
	COMBINATION HEAT, LIGHT, AND FAN UNIT
	SECTION/ELEVATION LETTER
	SHEET NUMBER
	DETAIL NUMBER
	SHEET NUMBER

REMODEL WORK

SYMBOL	DESCRIPTION
	EXISTING FLUORESCENT FIXTURE-TO REMAIN
	EXISTING FLUORESCENT FIXTURE-REMOVE
	EXISTING INCANDESCENT FIXTURE-TO REMAIN
	EXISTING INCANDESCENT FIXTURE-REMOVE
	EXISTING OUTLET-TO REMAIN
	EXISTING RECEPTACLE OUTLET-TO REMAIN
	EXISTING RECEPTACLE OUTLET-REMOVE
	EXISTING CONDUIT AND CONDUCTORS-TO REMAIN UNLESS OTHERWISE NOTED
	EXISTING CONDUIT AND CONDUCTORS-REMOVE
	EXISTING SWITCH-TO REMAIN
	EXISTING SWITCH-REMOVE
	EXISTING JUNCTION BOX-TO REMAIN
	EXISTING JUNCTION BOX-REMOVE

GRAPHIC SYMBOLS FOR ELECTRICAL DIAGRAMS

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER, SINGLE-POLE
	CIRCUIT BREAKER, DOUBLE-POLE
	CIRCUIT BREAKER, THREE-POLE
	CIRCUIT BREAKER, WITH GROUND FAULT CIRCUIT INTERRUPTER
	CIRCUIT BREAKER, SINGLE-POLE, SWITCHED NEUTRAL
	CONTACT, NORMALLY OPEN
	CONTACT, NORMALLY CLOSED
	CONTACT, NORMALLY CLOSED, TIME DELAY CLOSING ON DE-ENERGIZING
	CONTACT, NORMALLY OPEN, TIME DELAY OPENING ON DE-ENERGIZING
	CONTACT, NORMALLY OPEN, TIME DELAY CLOSING ON ENERGIZING
	CONTACT, NORMALLY CLOSED, TIME DELAY OPENING ON ENERGIZING
	CONTACT, SINGLE-POLE, DOUBLE-THROW
	OPERATING COIL
	LIQUID LEVEL ACTUATED SWITCH, NORMALLY CLOSED
	LIQUID LEVEL ACTUATED SWITCH, NORMALLY OPEN
	PRESSURE ACTUATED SWITCH, NORMALLY CLOSED
	PRESSURE ACTUATED SWITCH, NORMALLY OPEN
	FLOW ACTUATED SWITCH, NORMALLY CLOSED
	FLOW ACTUATED SWITCH, NORMALLY OPEN
	TEMPERATURE ACTUATED SWITCH, NORMALLY CLOSED
	TEMPERATURE ACTUATED SWITCH, NORMALLY OPEN
	LIMIT SWITCH, NORMALLY CLOSED
	LIMIT SWITCH, NORMALLY OPEN
	PUSHBUTTON SWITCH, NORMALLY CLOSED
	PUSHBUTTON SWITCH, NORMALLY OPEN
	SWITCH, SINGLE-POLE
	SWITCH, SINGLE-POLE, DOUBLE-THROW
	SWITCH, DOUBLE-POLE
	SWITCH, DOUBLE-POLE, DOUBLE-THROW
	SWITCH, SINGLE-POLE, 3-POSITION
	THERMAL OVERLOAD
	FUSE
	RESISTOR
	VARIABLE RESISTOR
	TRANSFORMER WINDING
	GROUNDING ELECTRODE
	ENCLOSURE BOND
	PILOT LIGHT (A=AMBER, G=GREEN, R=RED)
	GENERATOR
	MOTOR
	FAN MOTOR

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101	46.9	101	130

Jagtar Dhalial
REGISTERED ELECTRICAL ENGINEER
DATE 3/6/13

REGISTERED PROFESSIONAL ENGINEER
Jagtar Dhalial
No. E 16915
Exp. 6/30/15
ELEC
STATE OF CALIFORNIA

8-5-13
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.

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: Polly Parenti
POLLY PARENTI
Approval date: 12-19-12

DESIGN BY Jagtar Dhalial CHECKED Mark Cheap	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 51R0001R/L POST MILE	GAVIOTA SRRA UPGRADE		SHEET EE0-1
				LEGEND		
DETAILS BY Kathi Andreasen CHECKED Jagtar Dhalial	QUANTITIES BY Jagtar Dhalial CHECKED Mark Cheap	UNIT PROJECT NUMBER & PHASE 3659 05000204181	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		4/18/12 5/15/12 9/25/12 12/5/12 3/6/13				

TAEMWW Imperial Rev. 3/12
EA 05-1A6201
08-NOV-2013 09:42
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ABBREVIATIONS

A
 A/C AIR CONDITIONING UNIT
 ACS AIR COMPRESSOR STARTER
 AFCI ARC FAULT CIRCUIT INTERRUPTER
 AI ANALOG INPUT
 AL ALARM LIGHT
 AO ANALOG OUTPUT
 ATS ASTRONOMICAL TIME SWITCH
 AVC AIR VOLUME CONTROLLER

B
 BD BUILDING DISCONNECT
 BP BOOSTER PUMP
 Brk BREAKER

C
 Cat CATEGORY
 CC CENTER CHANNEL LIGHT
 CEC CALIFORNIA ELECTRICAL CODE
 CM CENTER MARGIN LIGHT
 COMM COMMUNICATION
 CR CONTROL RELAY
 CSW CURRENT SWITCH

D
 DI DIGITAL INPUT
 DO DIGITAL OUTPUT
 DP DUPLEX PLUG RECEPTACLE
 DS DOOR SWITCH

E
 (E) EXISTING
 EF EXHAUST FAN

F
 F FUSE
 FL FAILURE LIGHT
 FLA FLASHER
 Flex FLEXIBLE CONDUIT
 FLS FLOW SWITCH
 FR FAILURE RESET or FLAME RESISTANT
 FS FLOAT SWITCH
 ft FOOT or FEET

G
 G GROUND
 GFCI GROUND FAULT CIRCUIT INTERRUPTER

I
 IC IRRIGATION CONTROLLER
 ICC IRRIGATION CONTROLLER CABINET
 IR INDUCTION RELAY

J
 JB JUNCTION BOX

L
 L LIGHT or LENGTH
 LC LIGHTING CONTACTOR
 LCD LIQUID CRYSTAL DISPLAY
 LCP LIGHTING CONTROL PANEL
 LD LIGHT DISCONNECT
 LDCI LEAK DETECTOR CIRCUIT INTERRUPTER
 LL LIQUID LEVEL RELAY
 LLC LIQUID LEVEL CONTROLLER
 LP LIGHT PANEL
 LS LIGHT SWITCH
 LT LIGHT TRANSFORMER
 LTO LIGHT TRANSFORMER OVERLOAD

M
 MB MAIN BREAKER
 MC METALLIC CONDUIT
 MCP MOTOR CIRCUIT PROTECTOR
 MCC MOTOR CONTROL CENTER
 MH MOUNTING HEIGHT
 MSB MAIN SWITCHBOARD

N
 (N) NEW
 Nav NAVIGATIONAL LIGHTS
 NSW NEUTRAL SWITCHING BREAKER

O
 O/C ON CENTER
 OL OVERLOAD

P
 PB PULL BOX or PUSHBUTTON
 PCP PUMP CONTROL PANEL
 PEU PHOTOELECTRIC UNIT
 PFR PHASE FAILURE RELAY
 PFRD PHASE FAILURE RELAY DISCONNECT
 PL PILOT LIGHT
 PS POWER SWITCH or PRESSURE SWITCH
 PTS POWER TRANSFER SWITCH
 PV PHOTOVOLTAIC

R
 RES RESISTOR
 Rm ROOM
 RTB RADIO TERMINAL BOARD
 R/W RIGHT OF WAY

S
 S STARTER COIL
 Sch SCHEDULE
 SD SERVICE DISCONNECT
 SFR SEAL FAILURE RELAY
 SL SUMP LIGHT
 SPR STANDBY POWER RECEPTACLE
 Sq SQUARE
 SS SELECTOR SWITCH
 ST STARTER
 SV SOLENOID VALVE
 SWIM SLOW WEIGH-IN-MOTION

T
 TB TERMINAL BLOCK
 TDR TIME DELAY RELAY
 TGLS TOGGLE SWITCH
 TM TIME METER
 TS TIMER SWITCH
 TSW TEST SWITCH
 TTB TELEPHONE TERMINAL BOARD

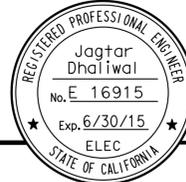
U
 UPS UNINTERRUPTIBLE POWER SUPPLY

W
 WLS WATER LEVEL SWITCH
 WP WEATHERPROOF
 WSMS WEIGH STATION MESSAGE SIGN

SYMBOLS

∠ ANGLE
 ° DEGREES
 Δ DELTA
 ∅ PHASE
 ± PLUS OR MINUS

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: Polly Parenti
 POLLY PARENTI
 Approval date: 12-19-12

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101	46.9	102	130
Jagtar Dhalial REGISTERED ELECTRICAL ENGINEER			3/6/13 DATE		
8-5-13					
PLANS APPROVAL DATE					
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PROJECT NOTES

1. Separate grounded (Neutral) conductor must be used for each 120-volt circuit.
2. Homeruns to Panelboards must be installed as shown on the plans. Homeruns must not be combined.
3. A single insulated equipment grounding conductor, sized as required, must be installed in each conduit run.
4. For "Lighting Fixture Schedule", see sheet EE3-2.
5. Bore under existing sidewalks for electrical conduit installation.
6. All pull boxes must be No. 5, unless otherwise noted.

GENERAL NOTE

The Contractor must verify all controlling field dimensions before ordering or fabricating any material.

STANDARD PLANS 2010

- RSP ES-1A
- RSP ES-8A

DESIGN BY Jagtar Dhalial CHECKED Mark Cheap DETAILS BY Kathi Andreasen CHECKED Jagtar Dhalial QUANTITIES BY Jagtar Dhalial CHECKED Mark Cheap	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN		BRIDGE NO. 51R0001R/L	GAVIOTA SRRA UPGRADE				SHEET EE0-2	
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			UNIT PROJECT NUMBER & PHASE 3659 05000204181			NOTES AND ABBREVIATIONS				SHEET OF
	0 1 2 3			DISREGARD PRINTS BEARING EARLIER REVISION DATES			REVISION DATES (PRELIMINARY STAGE ONLY)				OF

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

Project Name: GAVIOTA SRRA UPGRADE	Date: 06-27-2012
Project Address: Northbound: 18001 Highway 101 Goleta, CA, 93117 Southbound: 18000 Highway 101 Goleta, CA, 93117	Total Hardscape Illuminated Area: 2,762 sq ft

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: JAGTAR SINGH DHALIWAL	Signature: <i>Jagtar Dhaliwal</i>
Company: CALIFORNIA DEPARTMENT OF TRANSPORTATION	Date: 06-27-12
Address: 1801 30TH STREET, MS9-3/11H	If applicable: CEA # CEPE #
City/State/Zip: SACRAMENTO, CA 95816	Phone: (916) 227-8345

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: JAGTAR SINGH DHALIWAL	Signature: <i>Jagtar Dhaliwal</i>
Company: CALIFORNIA DEPARTMENT OF TRANSPORTATION	Phone: (916) 227-8345
Address: 1801 30TH STREET, MS9-3/11H	License # E 16915
City/State/Zip: SACRAMENTO, CA 95816	Date: Exp 06-30-13

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-5

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.

General Notes: 1. Forms OLTG-1C, Parts 3 of 4 and 4 of 4 are shown on EE0-4.
2. Other checked forms are available upon request.

2008 Nonresidential Compliance Forms July 2010

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

COMPLIANCE FIXTURE/LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST

Project Name: GAVIOTA SRRA UPGRADE	Date: 06-27-2012
--	----------------------------

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				Field Inspector ²		
A	B	C	D	E	F		G	H	I	
Name Or Item Tag	Luminaire Description See footnote below (i.e., lamp pole-top shoe-box 400 watt metal halide)	Cutoff Designation	Watts per Luminaire ¹	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)				
F2	Surface mount, 2x32 watt fluorescent, integral ballast	FC	61	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20	1220	<input type="checkbox"/>	<input type="checkbox"/>
CFL1	Wall mount, 42 watt Compact Fluorescent Lamp	FC	42	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5	210	<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"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Enter total into OLTG-1C; Page 4 of 4; Row H; Total Installed Watts:								1430		

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.: electronic 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	Photoelectric cell	Building Exterior			
2	Astronomical Timer Switch	Utility Rooms			

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 documentation submitted.

Field Inspector Notes or Discrepancies:

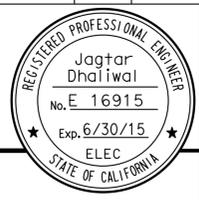
2008 Nonresidential Compliance Forms July 2010

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101	46.9	103	130

Jagtar Dhaliwal 3/6/13
REGISTERED ELECTRICAL ENGINEER DATE

8-5-13
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Reviewed by: *Polly Parenti*
POLLY PARENTI
Approval date: 12-19-12

DESIGN BY Jagtar Dhaliwal CHECKED Mark Cheap	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 51R0001R/L	GAVIOTA SRRA UPGRADE	SHEET EE0-3
			POST MILE		
DETAILS BY Kathi Andreasen CHECKED Jagtar Dhaliwal	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3659 05000204181	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY Jagtar Dhaliwal CHECKED Mark Cheap				8/28/12 9/27/12 12/5/12 12/6/12 3/6/13	03_ee0_3.dgn

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

Project Name: GAVIOTA SRRA UPGRADE		Date: 06-27-2012
Project Address: Northbound: 18001 Highway 101, Goleta, CA 93117	Climate Zone: 5	Building CFA: 110 sq ft
		Unconditioned Floor Area: 72 sq ft

General Information			
Building Type:	<input checked="" type="checkbox"/> Nonresidential	<input type="checkbox"/> High-Rise Residential	<input type="checkbox"/> Hotel/Motel
	<input type="checkbox"/> Schools	<input type="checkbox"/> Relocatable Public Schools	<input checked="" type="checkbox"/> Conditioned Spaces
			<input checked="" type="checkbox"/> Unconditioned Spaces
Phase of Construction:	<input checked="" type="checkbox"/> New Construction	<input type="checkbox"/> Addition	<input type="checkbox"/> Alteration
Method of Compliance:	<input type="checkbox"/> Complete Building	<input checked="" type="checkbox"/> Area Category	<input type="checkbox"/> Tailored

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

Name:	JAGTAR SINGH DHALIWAL	Signature:	<i>Jagtar Dhaliwal</i>
Company:	CALIFORNIA DEPARTMENT OF TRANSPORTATION	Date:	06-27-12
Address:	1801 30TH STREET, MS9-3/11H	If applicable: CEA # CEPE #	
City/State/Zip:	SACRAMENTO, CA 95816	Phone:	(916) 227-8345

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 specifications 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:	JAGTAR SINGH DHALIWAL	Signature:	<i>Jagtar Dhaliwal</i>
Company:	CALIFORNIA DEPARTMENT OF TRANSPORTATION	Phone:	(916) 227-8345
Address:	1801 30TH STREET, MS9-3/11H	License #	E 16915
City/State/Zip:	SACRAMENTO, CA 95816	Date:	Exp 06-30-13

Lighting Mandatory Measures
 Indicate location on building plans of Mandatory Measures Note Block: This Sheet

LIGHTING COMPLIANCE FORMS & WORKSHEETS (Check box if worksheet is included)	
<input checked="" type="checkbox"/> LTG-1C Pages 1 through 4	Certificate of Compliance. All pages required on plans for all submittals.
<input checked="" type="checkbox"/> LTG-2C	Lighting Controls Credit Worksheet
<input checked="" type="checkbox"/> LTG-3C	Indoor Lighting Power Allowance
<input type="checkbox"/> LTG-4C Pages 1 through 4	Tailored Method Worksheet
<input type="checkbox"/> LTG-5C Pages 1 and 2	Line Voltage Track Lighting Worksheet

2008 Nonresidential Compliance Forms July 2010

General Notes: 1. Forms LTG-1C, Parts 2 of 4 are shown on EE0-6.
 2. Forms LTG-1C, Parts 3 of 4 and 4 of 4 are shown on EE0-7.
 3. Other checked forms are available upon request.

CALIFORNIA ENERGY COMMISSION MANDATORY MEASURES:

BUILDING LIGHTING SHUTOFF

- Occupancy sensors for Crew Room and Storage Room.

INDOOR MULTI-LEVEL LIGHTING CONTROL

- Bilevel occupant sensor wall switches for Crew Room.
- Single level occupant sensor wall switch for Storage Room.

BUILDING EXTERIOR LIGHTING

- Photoelectric cell unit.
- Astronomical Time Switches.
- All exterior luminaries must have full cutoff type light distribution.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101	46.9	105	130

<i>Jagtar Dhaliwal</i> REGISTERED ELECTRICAL ENGINEER	3/6/13 DATE	
8-5-13 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 approvals subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *Polly Parenti*
 POLLY PARENTI
 Approval date: 12-19-12

DESIGN BY Jagtar Dhaliwal CHECKED Mark Cheap		DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	GAVIOTA SRRA UPGRADE	SHEET EE0-5 OF
			51R0001R/L		
			POST MILE		
DETAILS BY Kathi Andreasen CHECKED Jagtar Dhaliwal	UNIT PROJECT NUMBER & PHASE 3659 05000204181	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 8/28/12 9/27/12 12/5/12 12/6/12 3/6/13	SHEET OF	
QUANTITIES BY Jagtar Dhaliwal CHECKED Mark Cheap	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	EA 05-1A6201			05_ee0_5.dgn

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

Project Name: **GAVIOTA SRRA UPGRADE** Date: **06-27-2012**

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	Field Inspector	
			Pass	Fail
Wall Occupancy Sensor, Type 2	1	Crew Room	<input type="checkbox"/>	<input type="checkbox"/>
Wall Occupancy Sensor, Type 1	1	Storage Room	<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"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

Field Inspectors' Notes or Discrepancies:

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

Project Name: **GAVIOTA SRRA UPGRADE** Date: **06-27-2012**

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)	- 22	Lighting Control Credit Unconditioned Spaces (from LTG-2C)	- 0
Adjusted Installed Lighting Power	= 88	Adjusted Installed Lighting Power	= 35
Complies if Installed ≤ Allowed ↑		Complies if Installed ≤ Allowed ↑	
Allowed Lighting Power Conditioned Spaces (from LTG-3C)	121	Allowed Lighting Power Unconditioned Spaces (from LTG-3C)	43

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 and LTG-3A. 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 and LTG-3A forms are 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 must 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 and LTG-3A for each different lighting luminaire control(s) must be provided to the owner of the building for their records.

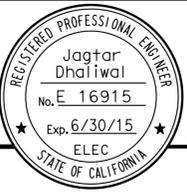
Luminaires Controlled			LTG-2A and LTG-3A	
Equipment Requiring Testing	Description	Number of Like Controls	Location	Controls and Sensors and Automatic Daylighting Controls Acceptance
Wall Occupancy Sensor	Type 2	1	Crew Room	<input checked="" type="checkbox"/>
Wall Occupancy Sensor	Type 1	1	Storage Room	<input checked="" type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>
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				<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101	46.9	107	130

Jagtar Dhaliwal
REGISTERED ELECTRICAL ENGINEER
DATE 3/6/13

8-5-13
PLANS APPROVAL DATE

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Reviewed by: Polly Parenti
POLLY PARENTI
Approval date: 12-19-12

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101	46.9	108	130

GENERAL NOTE:

Verify all controlling field dimensions before ordering or fabricating any material.

Jagtar Dhalival
REGISTERED ELECTRICAL ENGINEER
DATE 3/6/13

8-5-13
PLANS APPROVAL DATE

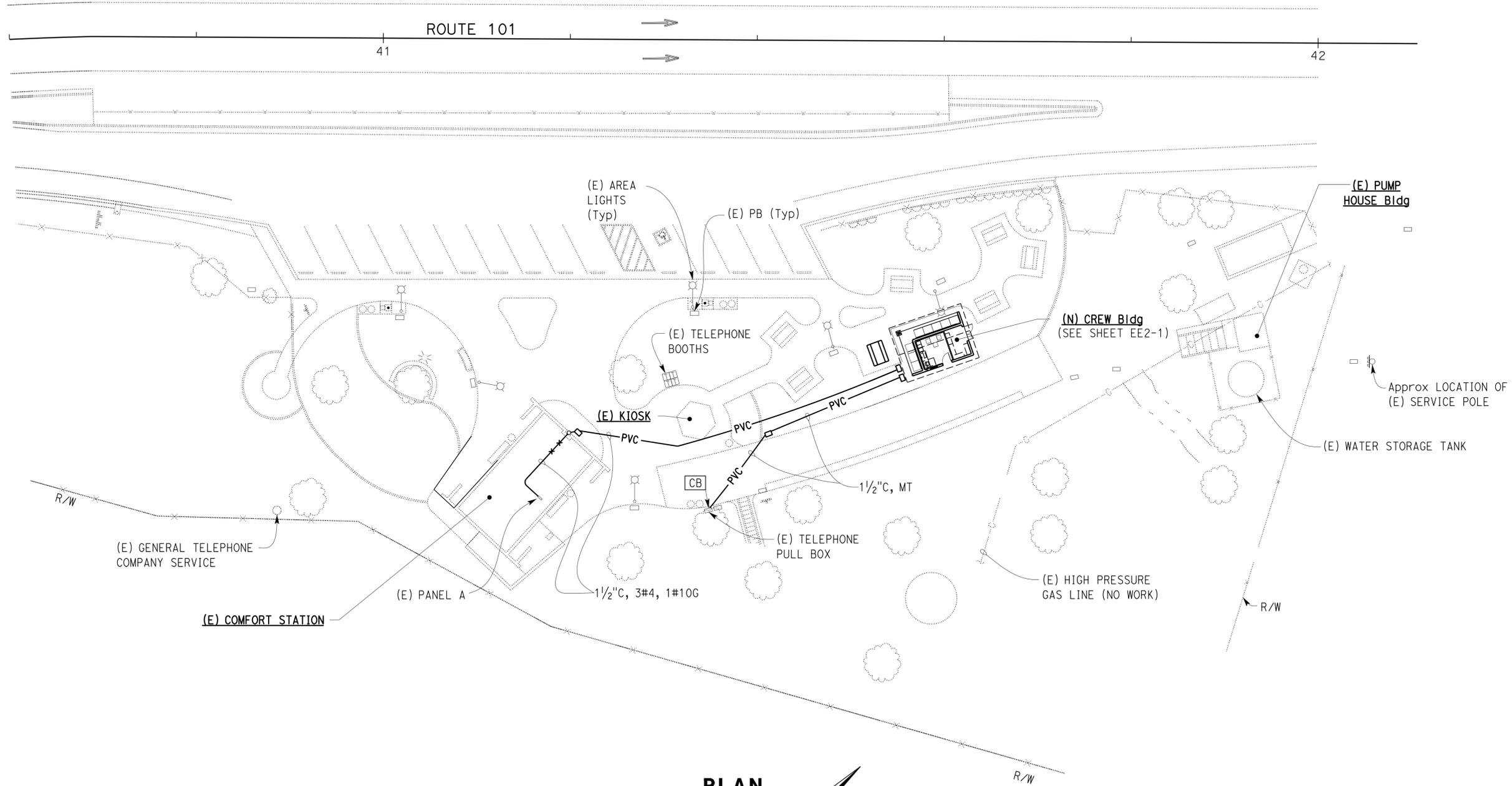
REG. PROFESSIONAL ENGINEER
Jagtar Dhalival
No. E 16915
Exp. 6/30/15
ELEC
STATE OF CALIFORNIA

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Reviewed by: Polly Parenti
POLLY PARENTI
Approval date: 12-19-12



PLAN
1" = 20'

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN SUPERVISOR <i>Paul Schreff</i> DESIGN ENGINEER <i>Mark Cheap</i>	DESIGN BY Jagtar Dhalival	CHECKED Mark Cheap	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 51R0001R	NORTHBOUND GAVIOTA SRRA UPGRADE SITE PLAN	SHEET OF EE1-1
	DETAILS BY Kathi Andreasen	CHECKED Jagtar Dhalival			POST MILE		
QUANTITIES BY Jagtar Dhalival	CHECKED Mark Cheap	UNIT PROJECT NUMBER & PHASE 3659 05000204181			EA 05-1A6201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 4/24/12 5/15/12 5/28/12 6/14/12 6/28/12 9/27/12 12/5/12 3/6/13

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NOTES:

- (A) Remove conduit and conductors.
- (B) Install new conduit and conductors between existing junction box and new AVC unit.
- (C) Connect Crew Building feeder to circuits 16 and 18 of Panel A. For modified panel schedule, see sheet EE1-5.
- (D) 1/2"C, 3#6, 1#10G.
- (E) Replace existing receptacle cover with weatherproof type receptacle cover.
- (F) California Highway Patrol (CHP) Radio System Control Cabinet. Disconnect the cables, remove and save the cabinet during construction in this building. Reinstall, connect and test it after construction. Coordinate with CHP personnel for removal and reinstallation of the cabinet.
- (G) For equipment removal, see Mechanical plans.

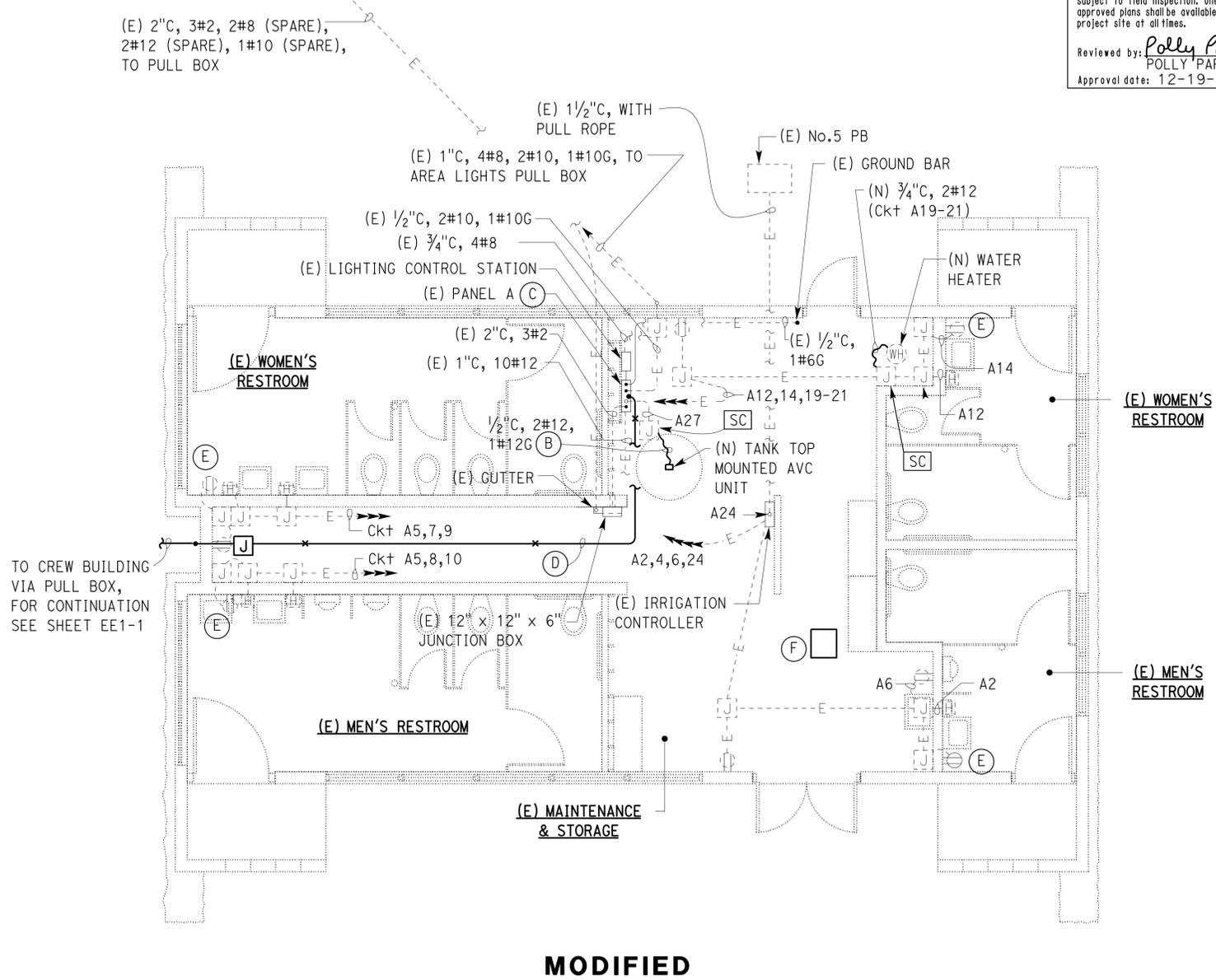
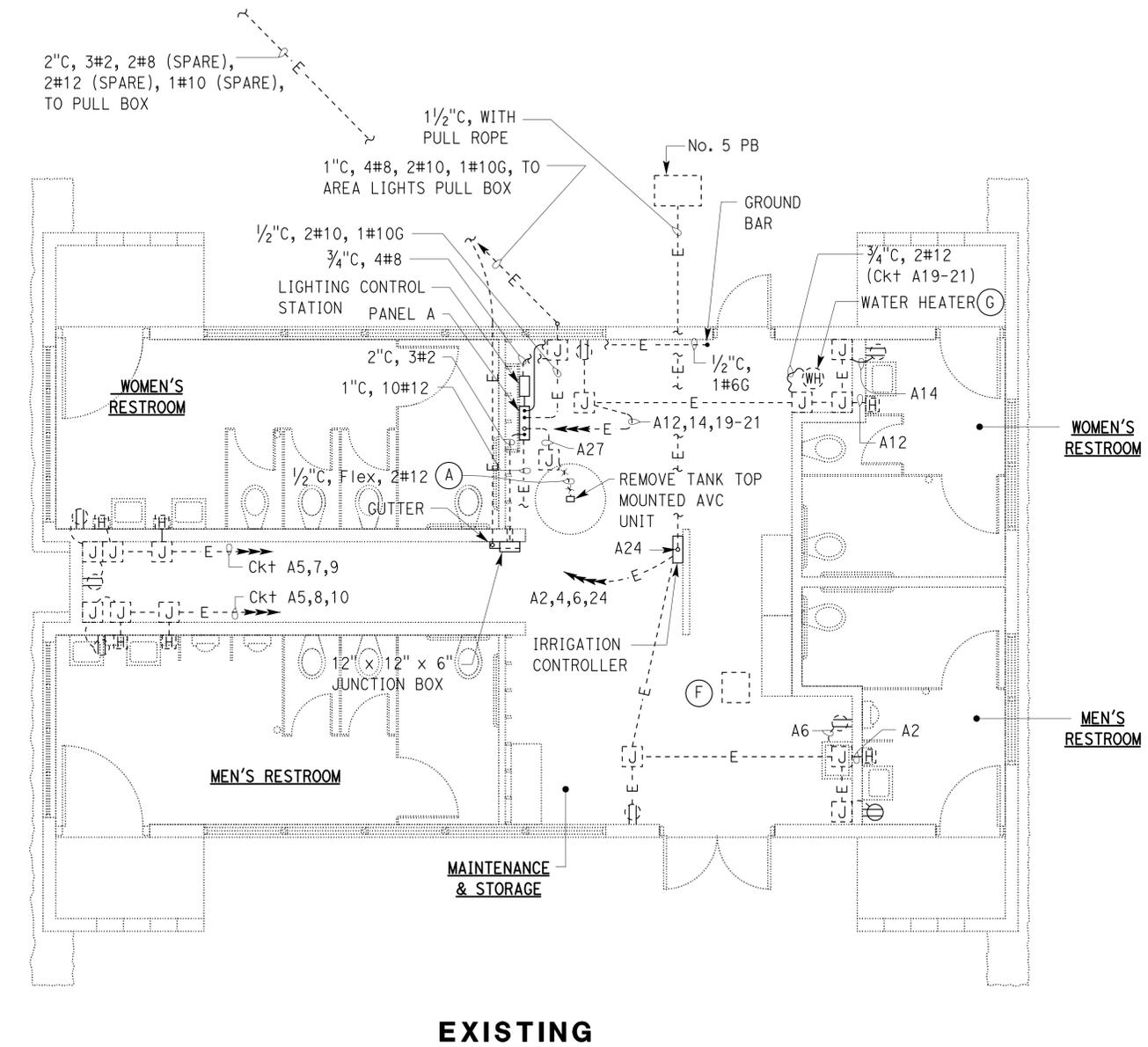
GENERAL NOTE:

Verify all controlling field dimensions before ordering or fabricating any material.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101	46.9	109	130

<i>Jagtar Dhalial</i> REGISTERED ELECTRICAL ENGINEER		3/6/13 DATE
REGISTERED PROFESSIONAL ENGINEER Jagtar Dhalial No. E 16915 Exp. 6/30/15 ELEC STATE OF CALIFORNIA		
8-5-13 PLANS APPROVAL DATE		
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 Reviewed by: *Polly Parenti*
 POLLY PARENTI
 Approval date: 12-19-12



EXISTING

MODIFIED

POWER PLAN

1/4" = 1'-0"



THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY Jagtar Dhalial CHECKED Mark Cheap DETAILS BY Kathi Andreasen CHECKED Jagtar Dhalial QUANTITIES BY Jagtar Dhalial CHECKED Mark Cheap	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 51R0001R	GAVIOTA SRRRA UPGRADE		SHEET EE1-2
			POST MILE NORTHBOUND	EXISTING & MODIFIED COMFORT STATION POWER PLAN		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT PROJECT NUMBER & PHASE 3659 05000204181	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 4/23/12 12/5/12 3/6/13 5/23/12 6/14/12 6/28/12 8/7/12 9/18/12 9/28/12 12/4/12	

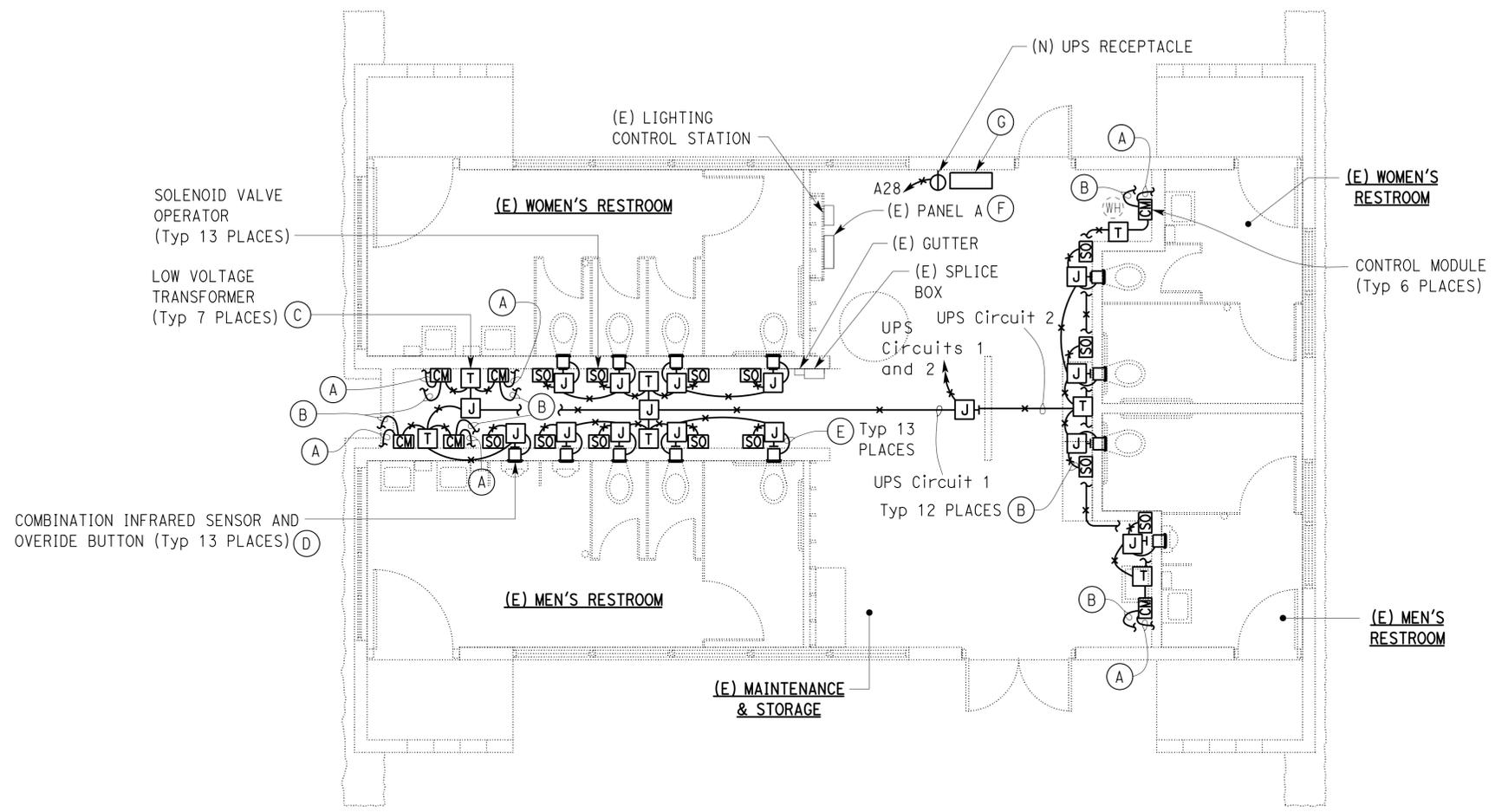
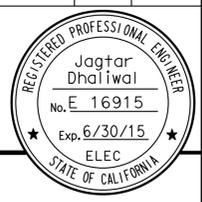
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05	SB	101	46.9	110	130

<u>Jagtar Dhaliwal</u> REGISTERED ELECTRICAL ENGINEER	3/6/13 DATE
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8-5-13 PLANS APPROVAL DATE

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AUTOMATIC FLUSH SYSTEM PLAN
 1/4" = 1'-0"

GENERAL NOTES:

- Verify all controlling field dimensions before ordering or fabricating any material.
- All rigid metal conduits installed below 4'-0" must be PVC coated steel conduit.
- Install and connect automatic flush system as recommended by manufacturer.
- All device and accessories for automatic flush system are supplied by the water closet manufacturer.
- Provide and install support systems for supporting armored cable as required.
- Transformer supplied by the manufacturer must be sized adequately to supply all units shown.
- Conduits and conductor system as shown is diagrammatic only. Exact system layout must depend upon the particular automatic flush system installed.
- Armored cable to connect various devices must be of adequate length with approved connectors for terminations at junction boxes and field devices.
- For details and schematics, see sheet EE4-1.

NOTES:

- (A) Armored cable to infrared sensor at the faucet. Install armored cable through the PVC sleeve. For detail of PVC sleeve, see Architectural sheets.
- (B) Armored cable to solenoid valve operator.
- (C) Provide and install all hardware as required for the installation of the low voltage transformer, as recommended by the manufacturer. Mount transformer in a surface mounted junction box, at 12 inches above the highest horizontal mechanical pipe.
- (D) Mount combination infrared sensor and override button, in a flush mounted junction box, at a location recommended by the manufacturer.
- (E) 1/2"C, conductors as required for operation of infrared sensor and solenoid valve.
- (F) For panel schedule, see sheet EE1-5.
- (G) Install UPS on a 12" X 16" wall mounted metal shelf and secure it to wall or shelf. Provide and install all required hardware to mount and secure the shelf.

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY Jagtar Dhaliwal CHECKED Mark Cheap	DETAILS BY Kathi Andreasen CHECKED Jagtar Dhaliwal	QUANTITIES BY Jagtar Dhaliwal CHECKED Mark Cheap	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 51R0001R	NORTHBOUND	GAVIOTA SRRA UPGRADE COMFORT STATION AUTOMATIC FLUSH SYSTEM PLAN	SHEET OF EE1-3								
					POST MILE				REVISION DATES (PRELIMINARY STAGE ONLY)							
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT PROJECT NUMBER & PHASE 3659 05000204181	DISREGARD PRINTS BEARING EARLIER REVISION DATES	<table border="1"> <tr> <td>5/27/12</td> <td>5/28/12</td> <td>6/7/12</td> <td>7/26/12</td> <td>9/27/12</td> <td>12/7/12</td> <td>12/5/12</td> <td>3/6/13</td> </tr> </table>			5/27/12	5/28/12	6/7/12	7/26/12	9/27/12	12/7/12	12/5/12	3/6/13
5/27/12	5/28/12	6/7/12	7/26/12	9/27/12	12/7/12	12/5/12	3/6/13									

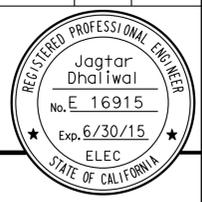
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101	46.9	111	130

Reviewed by: <i>Jagtar Dhalival</i> REGISTERED ELECTRICAL ENGINEER	DATE: 3/6/13
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8-5-13 PLANS APPROVAL DATE

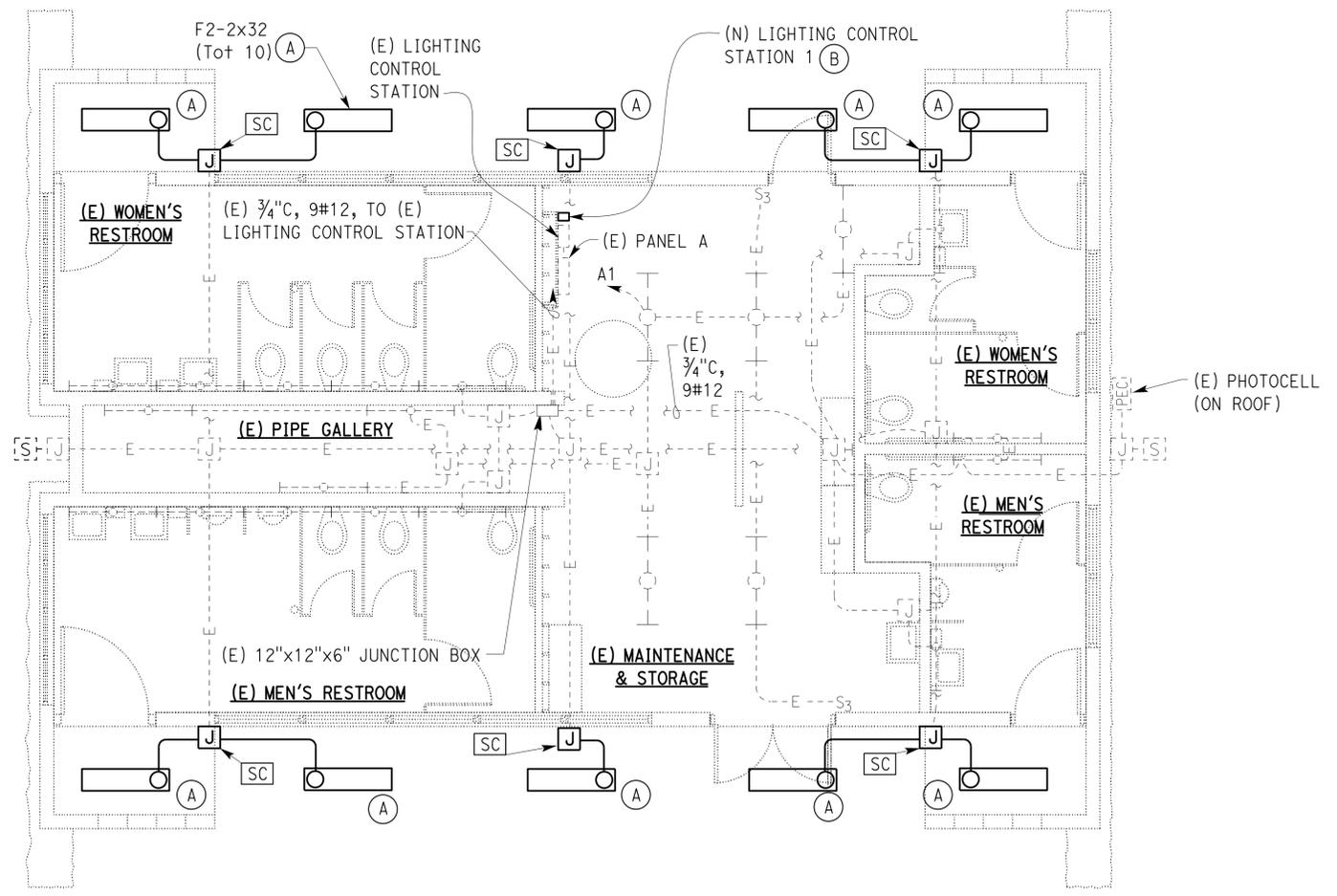
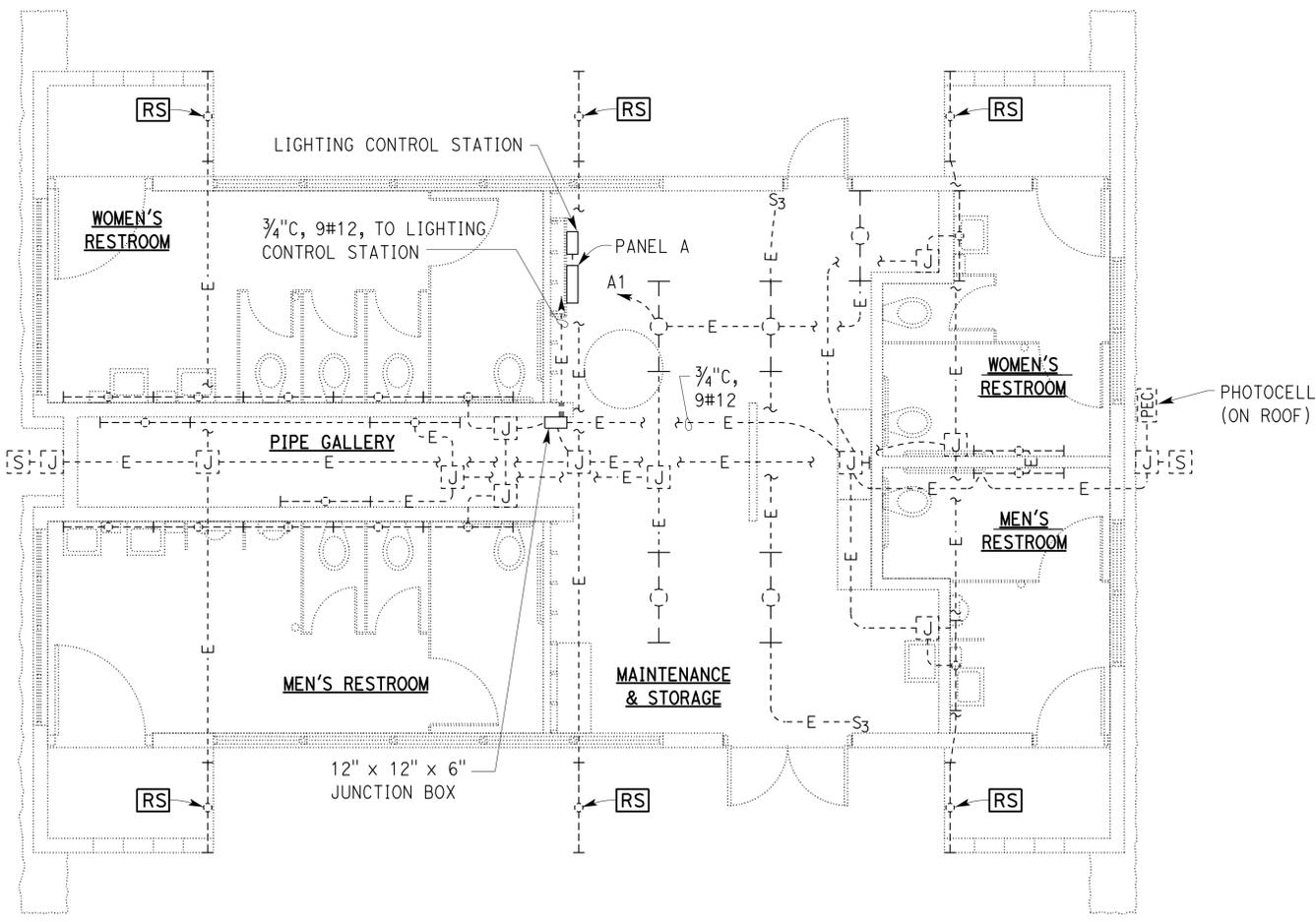
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 Reviewed by: *Polly Parenti*
 POLLY PARENTI
 Approval date: 12-19-12



GENERAL NOTE:
 Verify all controlling field dimensions before ordering or fabricating any material.

- NOTES:
- (A) For location and mounting detail, see A1-03.
 - (B) Install an astronomical timer and lighting contactor in new LCS-1 for Comfort Station lighting. For elevation and mounting details, see sheet EE4-2. For "MODIFIED LIGHTING CONTROL SCHEMATIC", see sheet EE4-3.



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

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY Jagtar Dhalival CHECKED Mark Cheap	DETAILS BY Kathi Andreasen CHECKED Jagtar Dhalival	QUANTITIES BY Jagtar Dhalival CHECKED Mark Cheap	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 51R0001R	NORTHBOUND	GAVIOTA SRRA UPGRADE EXISTING & MODIFIED COMFORT STATION LIGHTING PLAN	SHEET EE1-4									
					POST MILE				REVISION DATES (PRELIMINARY STAGE ONLY)								
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT PROJECT NUMBER & PHASE 3659 05000204181	DISREGARD PRINTS BEARING EARLIER REVISION DATES	<table border="1"> <tr> <td>5/15/12</td> <td>5/28/12</td> <td>6/15/12</td> <td>6/28/12</td> <td>6/28/12</td> <td>9/27/12</td> <td>12/04/12</td> <td>12/5/12</td> <td>3/6/13</td> </tr> </table>			5/15/12	5/28/12	6/15/12	6/28/12	6/28/12	9/27/12	12/04/12	12/5/12	3/6/13
5/15/12	5/28/12	6/15/12	6/28/12	6/28/12	9/27/12	12/04/12	12/5/12	3/6/13									

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GENERAL NOTE:

All existing circuit breakers and spaces are shown in lightweight or dropout lines. New work is shown in solid heavier lines or text. Provide new typewritten panel directory.

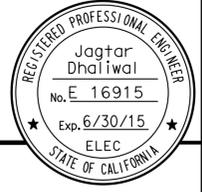
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101	46.9	112	130

Reviewed by: Jagtar Dhaliwal 3/6/13
 REGISTERED ELECTRICAL ENGINEER DATE

8-5-13
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MAIN: 125 A CIRCUIT BREAKER
 VOLTS: 120/240 V, 1Ø, 3-WIRE

PANEL A

FEEDER SIZE: 3#2
 LOCATION: MAINTENANCE AND STORAGE

DESCRIPTION	AMPERES		Brk	Ckt	A	C	Ckt	Brk	AMPERES		DESCRIPTION
	A	C							A	C	
LIGHTS - MAINTENANCE AND STORAGE, PIPE GALLERY	4.5		20/1	1	•		2	20/1	10.0		HAND DRYER - MEN'S HANDICAPPED
LIGHTS - TELEPHONE BOOTHS		1.0	20/1	3	•		4	*20/1	6.0		RECEPT - HANDICAPPED MEN'S, WOMEN'S, STORAGE
RECEPT - MEN'S RM, WOMEN'S RM, PIPE GALLERY	4.5		*20/1	5	•		6	20/1	1.5		RECEPT - CHP RADIO
HAND DRYER (RIGHT HAND SIDE) - WOMEN'S RM		10.0	20/1	7	•		8	20/1	10.0		HAND DRYER (RIGHT HAND SIDE) - MEN'S RM
HAND DRYER (LEFT HAND SIDE) - WOMEN'S RM	10.0		20/1	9	•		10	20/1	10.0		HAND DRYER (LEFT HAND SIDE) - MEN'S RM
LIGHTS - KIOSK		1.5	20/1	11	•		12	20/1	10.0		HAND DRYER - WOMEN'S HANDICAPPED
LIGHTS - EXTERIOR AREA AND SPOT	7.0		20/1	13	•		14	20/*	3.0		RECEPT-STOR, WOMEN'S HANDICAPPED
LIGHTS - MEN'S RM, WOMEN'S RM, BUILDING OUTSIDE		7.5	20/2	15	•		16	**	---		SPARE
	7.5			17	•		18	40/2	---		
WATER HEATER		11.0	20/2	19	•		20		---		SPARE
	11.0			21	•		22		---		
SPARE		---	20/2	23	•		24	20/1	2.0		IRRIGATION CONTROLLER
				25	•		26	20/1	1.0		LIGHTING CONTROL
AIR VOLUME CONTROLLER		1.0	20/1	27	•		28	*20/1	---		SPARE
SPARE		---	20/1	29	•		30	20/1	---		SPARE

* GFCI TYPE CIRCUIT BREAKER
 ** REMOVE 40 A/2P BREAKER AND INSTALL 60 A/2P BREAKER

A	C	TOTAL AMPERES PER PHASE
70.0	60.0	

EXISTING

MAIN: 125 A CIRCUIT BREAKER
 VOLTS: 120/240 V, 1Ø, 3-WIRE

PANEL A

FEEDER SIZE: 3#2
 LOCATION: MAINTENANCE AND STORAGE

DESCRIPTION	AMPERES		Brk	Ckt	A	C	Ckt	Brk	AMPERES		DESCRIPTION
	A	C							A	C	
LIGHTS - MAINTENANCE AND STORAGE, PIPE GALLERY	4.5		20/1	1	•		2	20/1	10.0		HAND DRYER - MEN'S HANDICAPPED
LIGHTS - TELEPHONE BOOTHS		1.0	20/1	3	•		4	*20/1	6.0		RECEPT - HANDICAPPED MEN'S, WOMEN'S, STORAGE
RECEPT - MEN'S RM, WOMEN'S RM, PIPE GALLERY	4.5		*20/1	5	•		6	20/1	1.5		RECEPT - CHP RADIO
HAND DRYER (RIGHT HAND SIDE) - WOMEN'S RM		10.0	20/1	7	•		8	20/1	10.0		HAND DRYER (RIGHT HAND SIDE) - MEN'S RM
HAND DRYER (LEFT HAND SIDE) - WOMEN'S RM	10.0		20/1	9	•		10	20/1	10.0		HAND DRYER (LEFT HAND SIDE) - MEN'S RM
LIGHTS - KIOSK		1.5	20/1	11	•		12	20/1	10.0		HAND DRYER - WOMEN'S HANDICAPPED
LIGHTS - EXTERIOR AREA AND SPOT	7.0		20/1	13	•		14	20/*	3.0		RECEPT-STOR, WOMEN'S HANDICAPPED
LIGHTS - MEN'S RM, WOMEN'S RM, BUILDING OUTSIDE		7.5	20/2	15	•		16		37.0		CREW BUILDING
	9.5			17	•		18	60/2	35.5		
WATER HEATER		11.0	20/2	19	•		20		---		SPARE
	11.0			21	•		22		---		
SPARE		---	20/2	23	•		24	20/1	2.0		IRRIGATION CONTROLLER
				25	•		26	20/1	1.0		LIGHTING CONTROL
AIR VOLUME CONTROLLER		1.0	20/1	27	•		28	*20/1	3.0		UPS - AUTOMATIC FLUSH SYSTEM
SPARE		---	20/1	29	•		30	20/1	---		SPARE

* GFCI TYPE CIRCUIT BREAKER

A	C	TOTAL AMPERES PER PHASE
107.5	100.0	

MODIFIED

DESIGN BY Jagtar Dhaliwal CHECKED Mark Cheap	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 51R0001R	GAVIOTA SRRA UPGRADE		SHEET EE1-5						
			POST MILE	NORTHBOUND	PANEL SCHEDULE							
			REVISION DATES (PRELIMINARY STAGE ONLY)				SHEET	OF				
DETAILS BY Kathi Andreasen CHECKED Jagtar Dhaliwal	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3659 05000204181	DISREGARD PRINTS BEARING EARLIER REVISION DATES	5/16/12	5/18/12	6/15/12	6/19/12	7/26/12	9/27/12	12/5/12	3/6/13	
QUANTITIES BY Jagtar Dhaliwal CHECKED Mark Cheap	0 1 2 3	EA 05-1A6201										

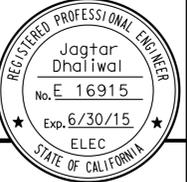
08-NOV-2013 09:40 12_ee1_05.dgn

GENERAL NOTE:

Verify all controlling field dimensions before ordering or fabricating any material.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101	46.9	113	130

Jagtar Dhalial
REGISTERED ELECTRICAL ENGINEER DATE 3/6/13



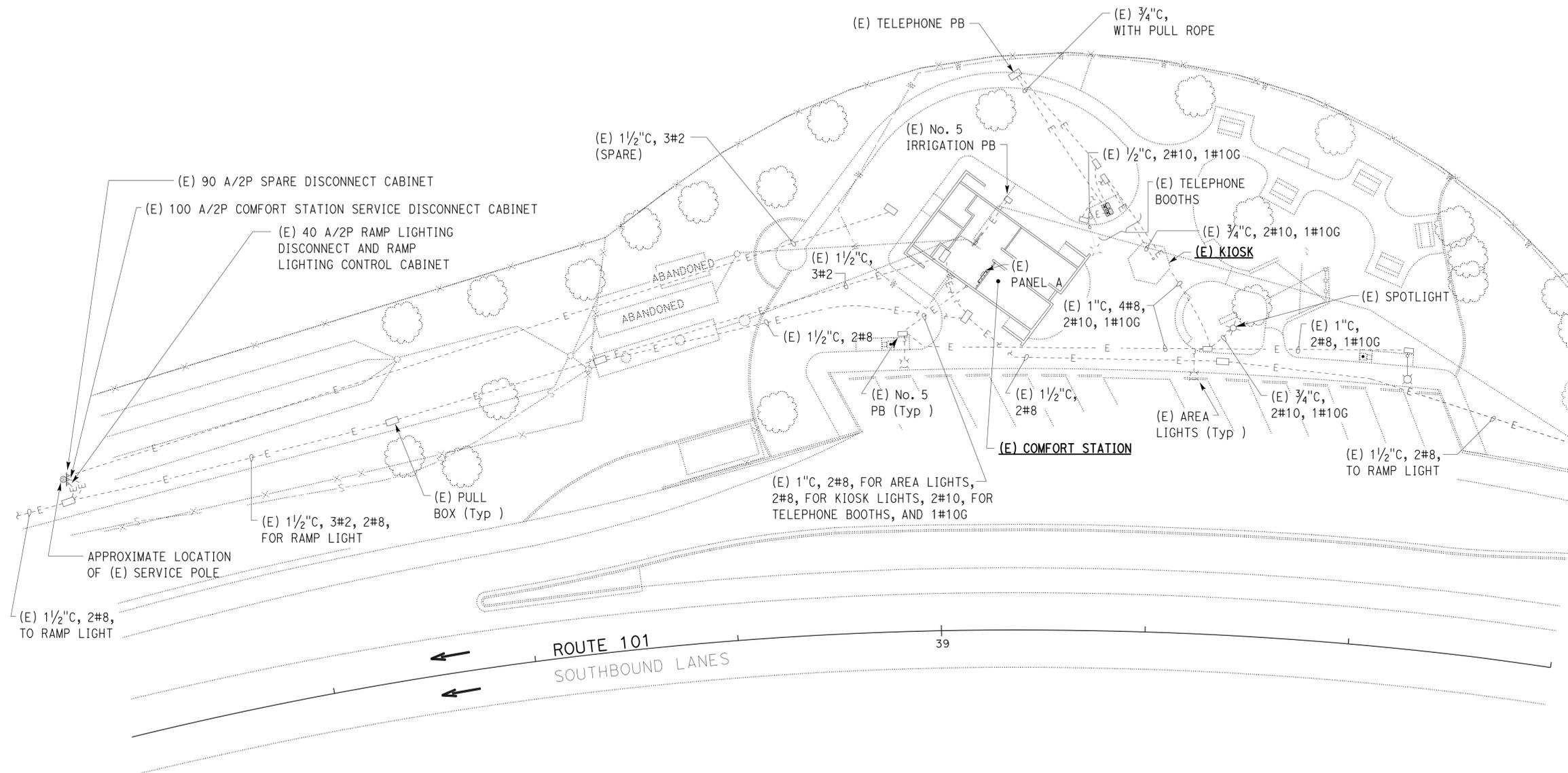
8-5-13
PLANS APPROVAL DATE

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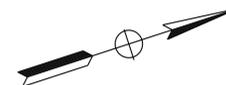
CALIFORNIA STATE FIRE MARSHAL APPROVED

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: *Polly Parenti*
POLLY PARENTI
Approval date: 12-19-12



PLAN
1" = 20'



THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY Jagtar Dhalial	CHECKED Mark Cheap
DETAILS	BY Kathi Andreasen	CHECKED Jagtar Dhalial
QUANTITIES	BY Jagtar Dhalial	CHECKED Mark Cheap

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 51R0001L
POST MILE

GAVIOTA SRRA UPGRADE
SOUTHBOUND
SITE PLAN

SHEET **EE2-1**

GENERAL NOTE:

Verify all controlling field dimensions before ordering or fabricating any material.

NOTES:

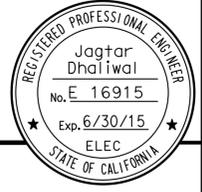
- (A) Remove conduit and conductors.
- (B) Install new conduit and conductors between existing junction box and new AVC.
- (C) Replace existing receptacle cover with weatherproof type receptacle cover.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101	46.9	114	130

Jagtar Dhalial 3/6/13
 REGISTERED ELECTRICAL ENGINEER DATE

8-5-13
 PLANS APPROVAL DATE

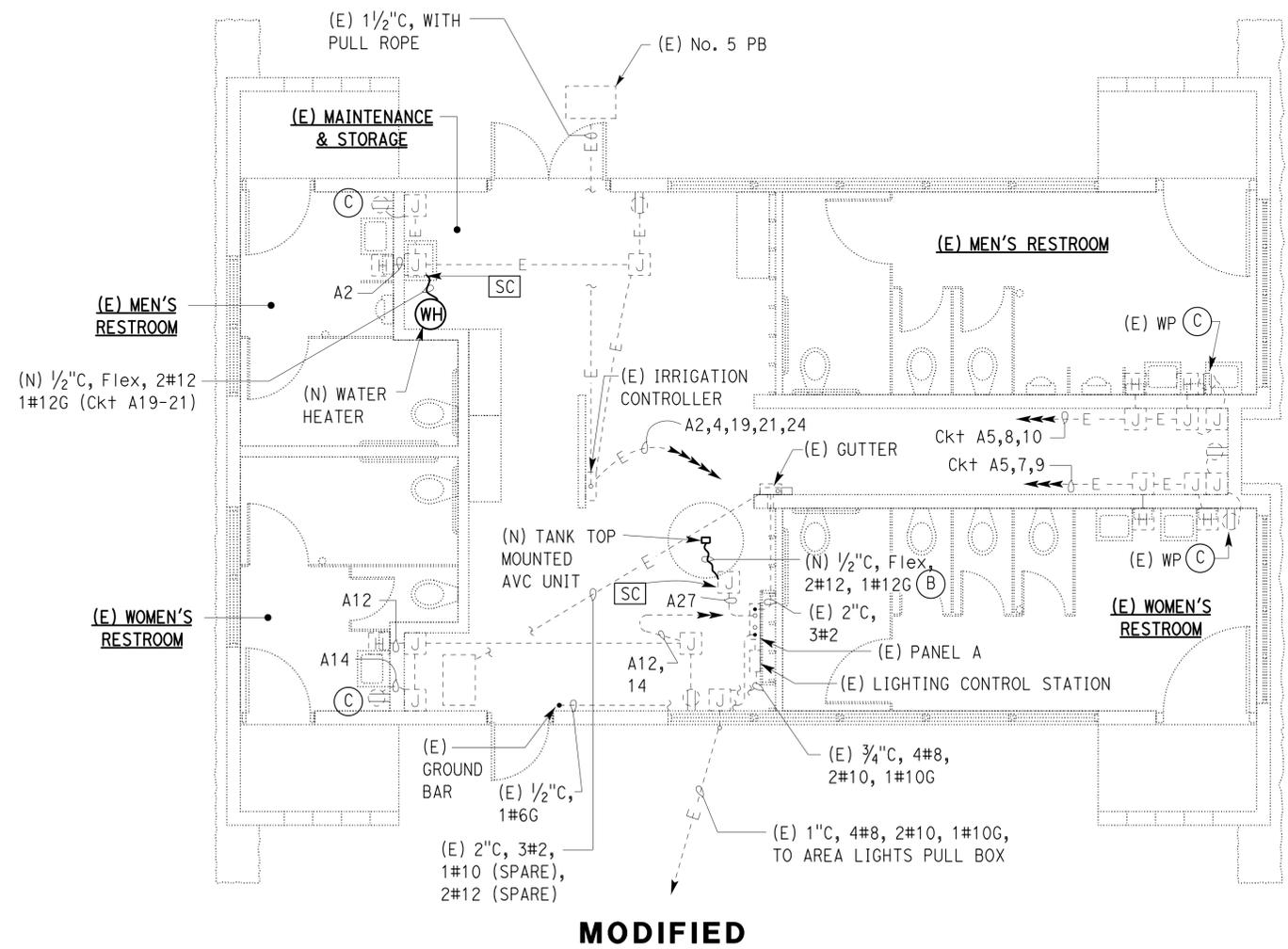
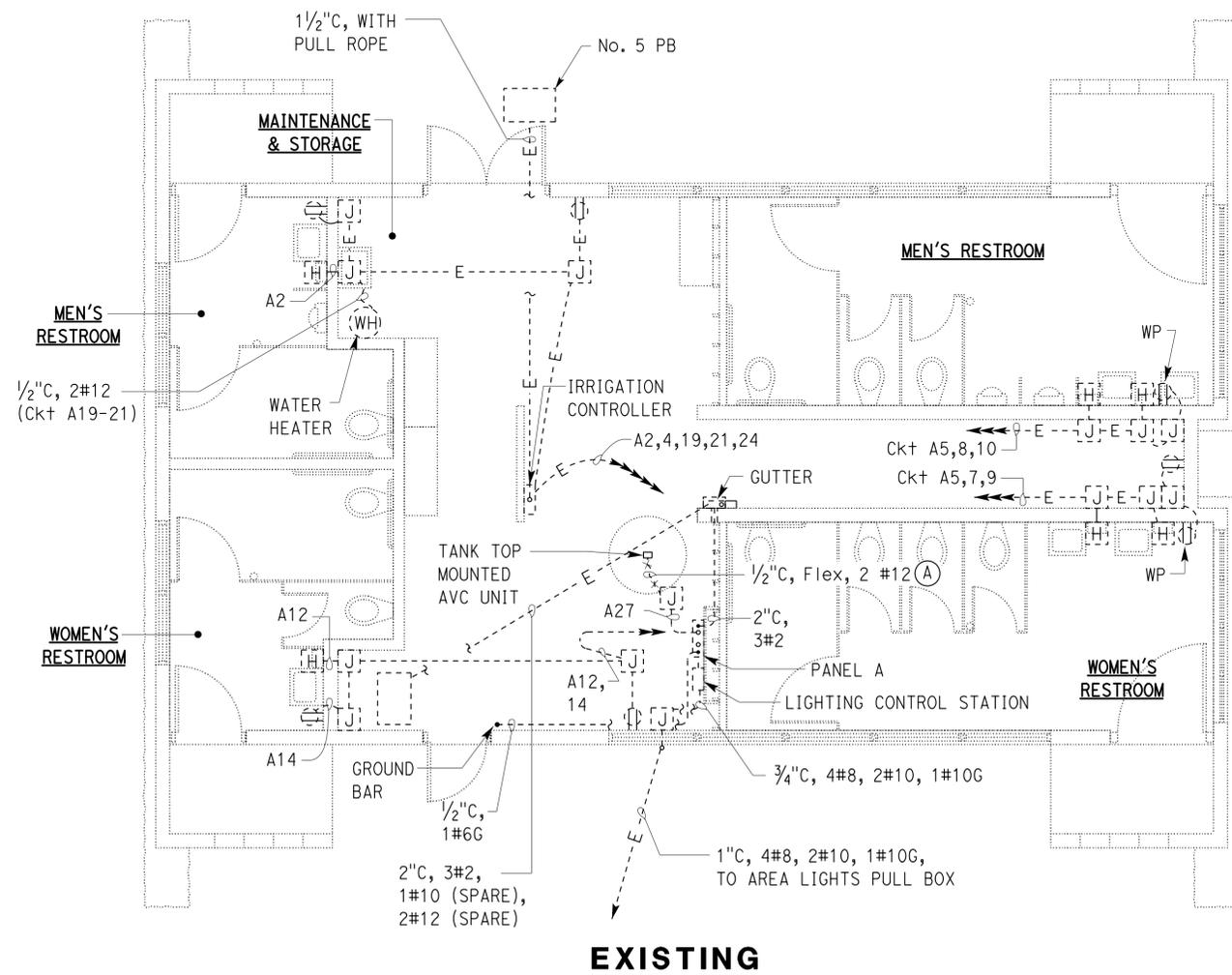
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CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *Polly Parenti*
 POLLY PARENTI
 Approval date: 12-19-12



POWER PLAN

1/4" = 1'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY Jagtar Dhalial	CHECKED Mark Cheap
DETAILS	BY Kathi Andreasen	CHECKED Jagtar Dhalial
QUANTITIES	BY Jagtar Dhalial	CHECKED Mark Cheap

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 51R0001L
 POST MILE SOUTHBOUND

GAVIOTA SRR A UPGRADE

EXISTING & MODIFIED COMFORT STATION POWER PLAN

SHEET **EE2-2** OF



REVISION DATES (PRELIMINARY STAGE ONLY)						
5/15/12	6/15/12	6/28/12	8/31/12	9/27/12	12/04/12	12/25/12

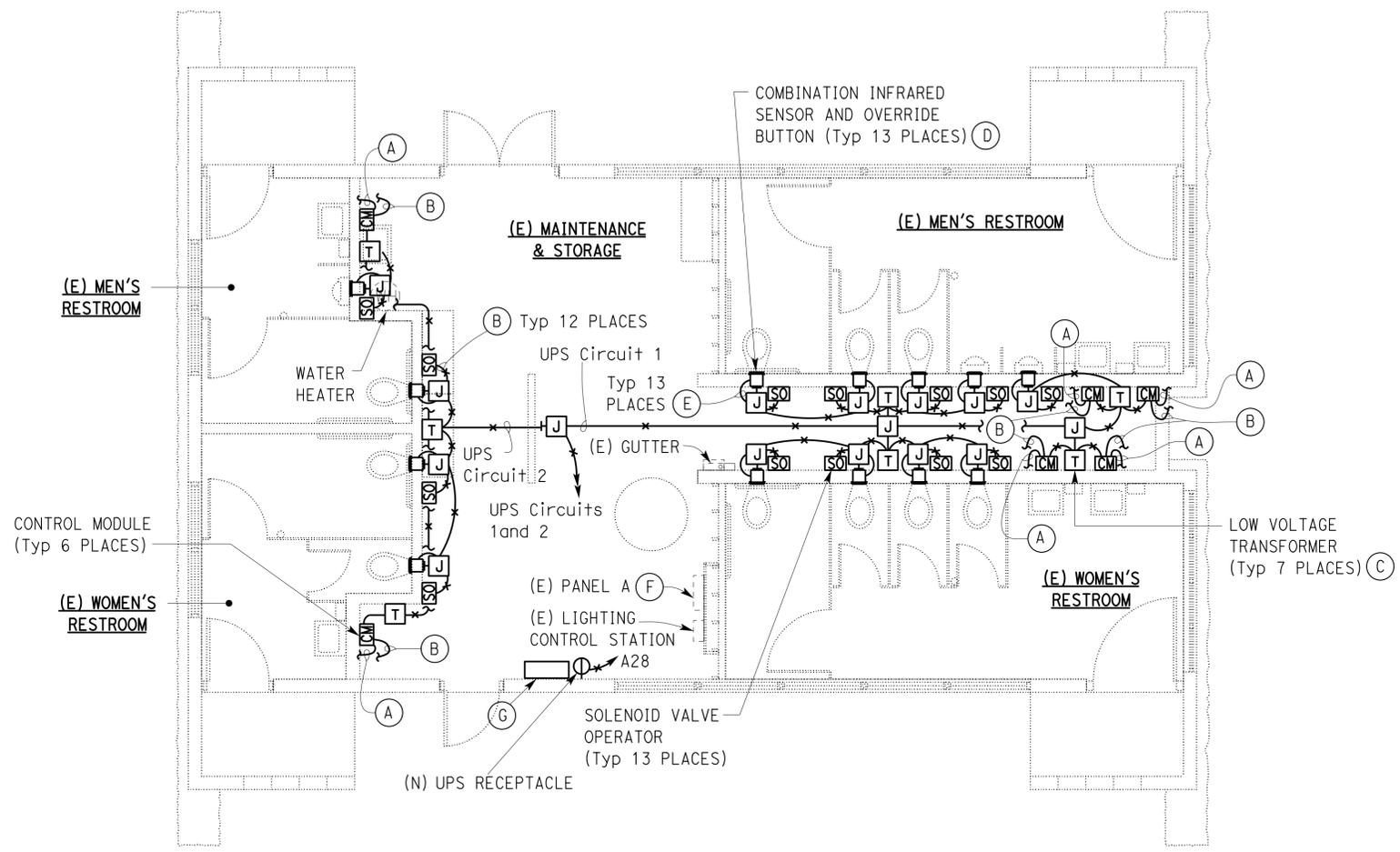
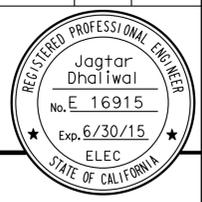
CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: Polly Parenti
 POLLY PARENTI
 Approval date: 12-19-12

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101	46.9	115	130

Reviewed by: <u>Jagtar Dhaliwal</u> REGISTERED ELECTRICAL ENGINEER	DATE: 3/6/13
---	--------------

PLANS APPROVAL DATE: 8-5-13

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AUTOMATIC FLUSH SYSTEM PLAN
 1/4" = 1'-0"

GENERAL NOTES:

1. Verify all controlling field dimensions before ordering or fabricating any material.
2. All rigid metal conduits installed below 4'-0" must be PVC coated steel conduit.
3. Install and connect automatic flush system as recommended by manufacturer.
4. All devices and accessories for automatic flush system are supplied by the water closet manufacturer.
5. Provide and install support systems for supporting armored cable as required.
6. Transformer supplied by the manufacturer must be sized adequately to supply all units shown.
7. Conduits and conductor system as shown is diagrammatic only. Exact system layout must depend upon the particular automatic flush system installed.
8. Armored cable to connect various devices must be of adequate length with approved connectors for terminations at junction boxes and field devices.
9. For details and schematics, see sheet EE4-1.

NOTES:

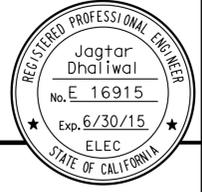
- (A) Armored cable to infrared sensor at the faucet. Install armored cable through the PVC sleeve. For detail of PVC sleeve, see Architectural sheets.
- (B) Armored cable to solenoid valve operator.
- (C) Provide and install all hardware as required for the installation of the low voltage transformer as recommended by the manufacturer. Mount transformer in a surface mounted junction box at 12 inches above the highest horizontal mechanical pipe.
- (D) Mount combination infrared sensor and override button in a flush mounted junction box at a location recommended by the manufacturer.
- (E) 1/2" C, conductors as required for operation of infrared sensor and solenoid valve.
- (F) For panel schedule, see sheet EE2-5.
- (G) Install UPS on a 12" X 16" wall mounted metal shelf and secure it to wall or shelf. Provide and install all required hardware to mount and secure the shelf.

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY Jagtar Dhaliwal CHECKED Mark Cheap	DETAILS BY Kathi Andreasen CHECKED Jagtar Dhaliwal	QUANTITIES BY Jagtar Dhaliwal CHECKED Mark Cheap	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 51R0001L	SOUTHBOUND	GAVIOTA SRRA UPGRADE COMFORT STATION AUTOMATIC FLUSH SYSTEM PLAN	SHEET EE2-3							
					POST MILE				REVISION DATES (PRELIMINARY STAGE ONLY)						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT PROJECT NUMBER & PHASE 3659 05000204181	DISREGARD PRINTS BEARING EARLIER REVISION DATES	<table border="1"> <tr> <td>5/28/12</td> <td>6/15/12</td> <td>7/26/12</td> <td>9/27/12</td> <td>12/14/12</td> <td>12/15/12</td> <td>3/6/13</td> </tr> </table>			5/28/12	6/15/12	7/26/12	9/27/12	12/14/12	12/15/12	3/6/13
5/28/12	6/15/12	7/26/12	9/27/12	12/14/12	12/15/12	3/6/13									

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101	46.9	116	130

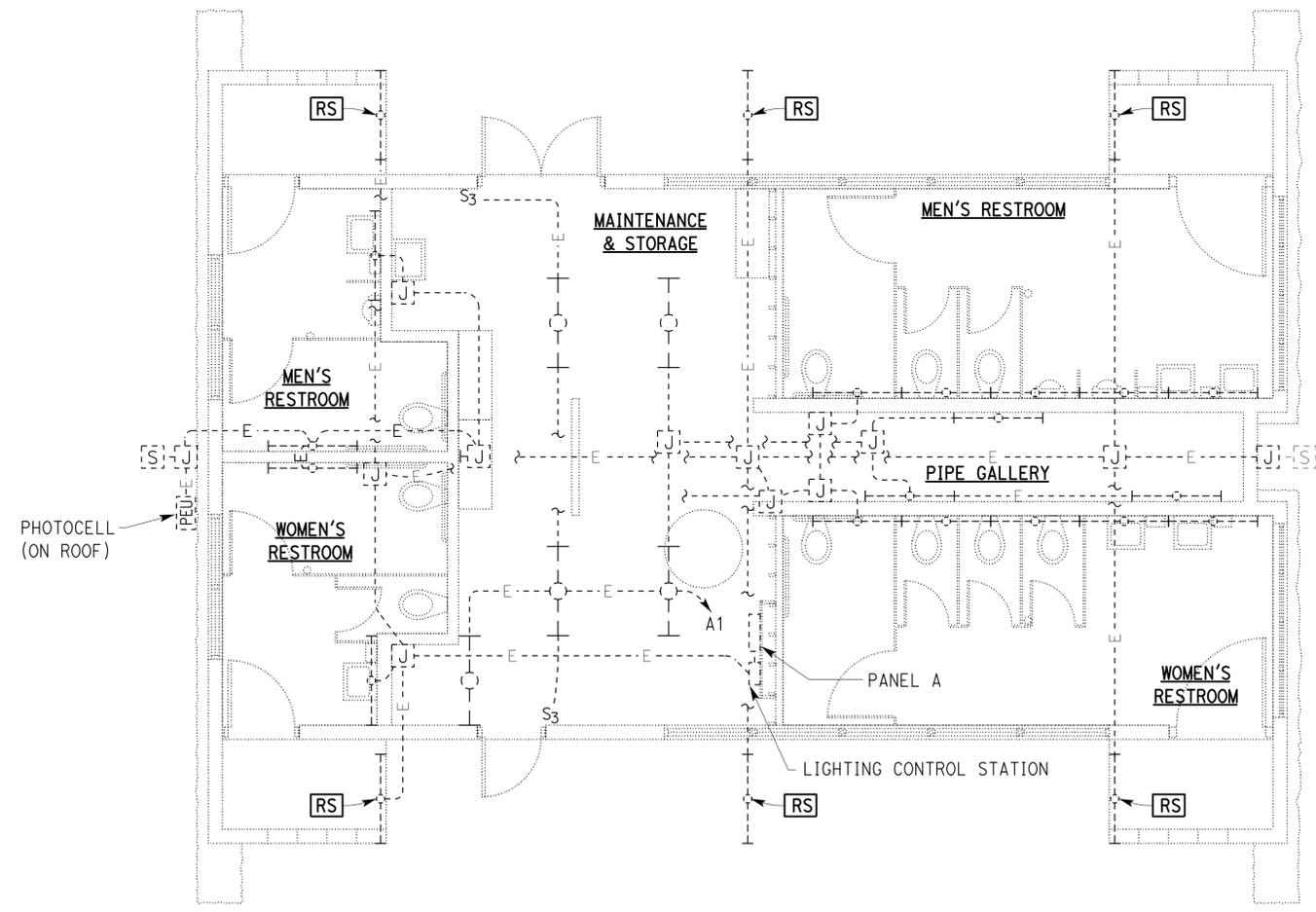
<i>Jagtar Dhalival</i> REGISTERED ELECTRICAL ENGINEER		3/6/13 DATE
8-5-13 PLANS APPROVAL DATE		
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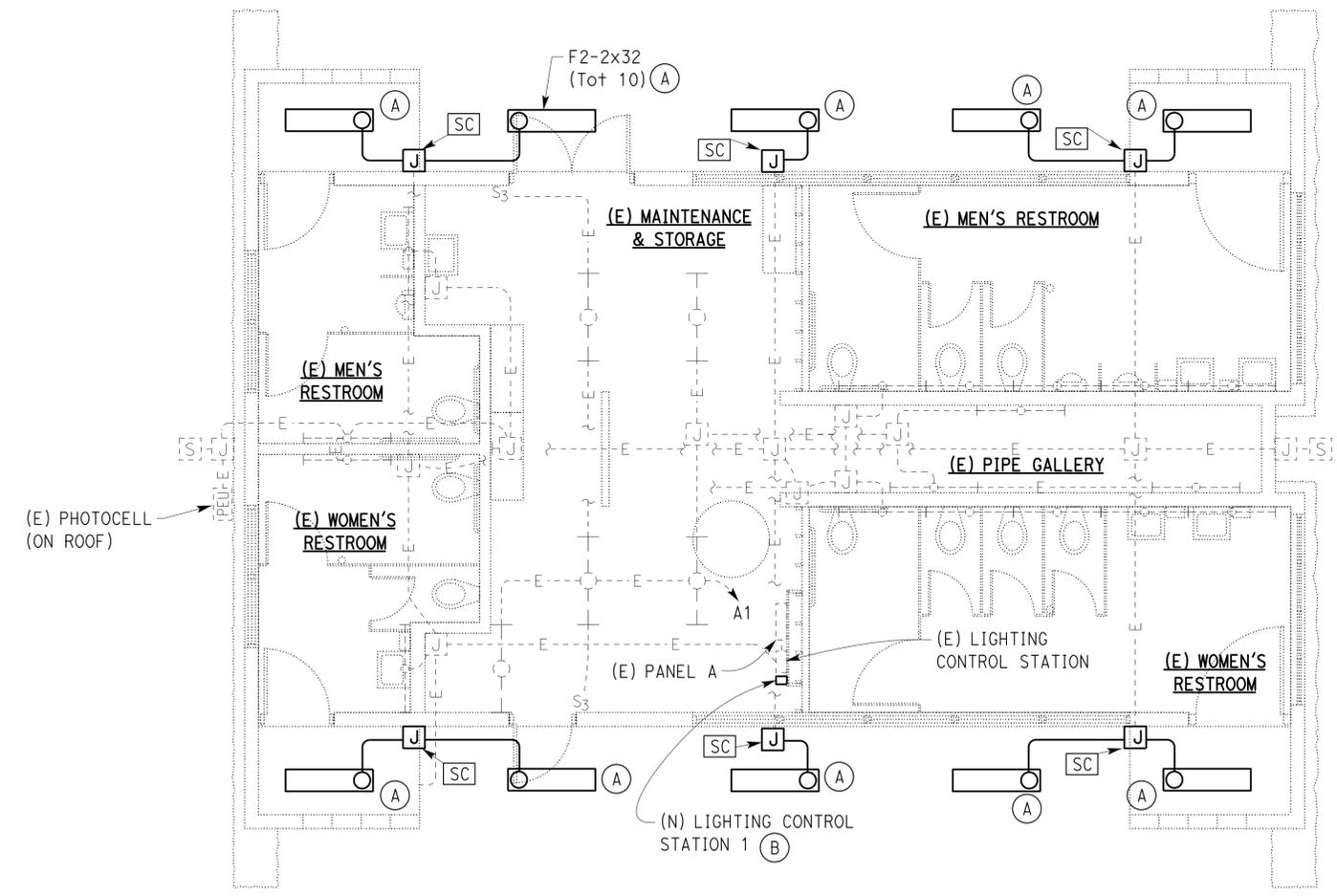
GENERAL NOTE:
Verify all controlling field dimensions before ordering or fabricating any material.

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: *Polly Parenti*
POLLY PARENTI
Approval date: 12-19-12

- NOTES:
- (A) For location and mounting detail, see .
 - (B) Install an astronomical timer and lighting contactor in new LCS 1 for Comfort Station lighting. For elevation and installation details, see sheet EE4-2. For "MODIFIED LIGHTING CONTROL SCHEMATIC", see sheet EE4-3.



EXISTING



MODIFIED

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

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY Jagtar Dhalival CHECKED Mark Cheap DETAILS BY Kathi Andreasen CHECKED Jagtar Dhalival QUANTITIES BY Jagtar Dhalival CHECKED Mark Cheap	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 51R0001L	GAVIOTA SRRRA UPGRADE		SHEET EE2-4
			POST MILE SOUTHBOUND	EXISTING & MODIFIED COMFORT STATION LIGHTING PLAN		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3659 05000204181	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 5/15/12 5/28/12 6/15/12 6/28/12 7/25/12 9/25/12 12/8/12 12/5/12 3/6/13			SHEET OF

08-NOV-2013 10:08

GENERAL NOTE:

All existing circuit breakers and spaces are shown in lightweight or dropout lines. New work is shown in solid heavier lines or text. Provide new typewritten panel directory.

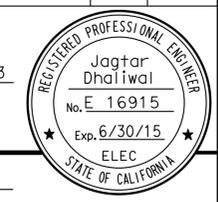
CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: Polly Parenti
 POLLY PARENTI
 Approval date: 12-19-12

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101	46.9	117	130

Reviewed by: Jagtar Dhaliwal 3/6/13
 REGISTERED ELECTRICAL ENGINEER DATE

8-5-13
 PLANS APPROVAL DATE

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MAIN: 125 A CIRCUIT BREAKER
 VOLTS: 120/240 V, 1Ø, 3-WIRE

PANEL A

FEEDER SIZE: 3#2
 LOCATION: MAINTENANCE AND STORAGE

DESCRIPTION	AMPERES		Brk	Ckt	A	C	Ckt	Brk	AMPERES		DESCRIPTION
	A	C							A	C	
LIGHTS - MAINTENANCE AND STORAGE, PIPE GALLERY	4.5		20/1	1	●		2	20/1	10.0		HAND DRYER - MEN'S HANDICAPPED
LIGHTS - TELEPHONE BOOTHS		1.0	20/1	3		●	4	20/1*		6.0	RECEPT - HANDICAPPED MEN'S, WOMEN'S, STORAGE
RECEPT - MEN'S RM, WOMEN'S RM, PIPE GALLERY	4.5		20/1*	5	●		6	20/1	---		SPARE
HAND DRYER - WOMEN'S RM (RIGHT HAND SIDE)		10.0	20/1	7	●		8	20/1		10.0	HAND DRYER - MEN'S RM (RIGHT HAND SIDE)
HAND DRYER - WOMEN'S RM (LEFT HAND SIDE)	10.0		20/1	9	●		10	20/1	10.0		HAND DRYER - MEN'S RM (LEFT HAND SIDE)
LIGHTS - KIOSK		1.5	20/1	11	●		12	20/1		10.0	HAND DRYER - WOMEN'S HANDICAPPED
LIGHTS - EXTERIOR AREA AND SPOT	5.0		20/1	13	●		14	20/1*	3.0		RECEPT - HANDICAPPED WOMEN'S, STORAGE
LIGHTS - MEN'S RM, WOMEN'S RM, BUILDING OUTSIDE		7.5	20/2	15	●		16	40/2	---		SPARE
	7.5			17	●		18	40/2	---		
WATER HEATER		11.0	20/2	19	●		20	20/2	---		SPARE
	11.0			21	●		22	20/2	---		
SPARE		---	20/2	23	●		24	20/1		2.0	IRRIGATION CONTROLLER
				25	●		26	20/1	1.0		LIGHTING CONTROL
AIR VOLUME CONTROLLER		2.0	20/1	27	●		28	20/1*		---	SPARE
SPARE		---	20/1	29	●		30	20/1	---		SPARE

* (E) GFCI TYPE CIRCUIT BREAKER

A	C	TOTAL AMPERES PER PHASE
66.5	61.0	

EXISTING

MAIN: 125 A CIRCUIT BREAKER
 VOLTS: 120/240 V, 1Ø, 3-WIRE

PANEL A

FEEDER SIZE: 3#2
 LOCATION: MAINTENANCE AND STORAGE

DESCRIPTION	AMPERES		Brk	Ckt	A	C	Ckt	Brk	AMPERES		DESCRIPTION
	A	C							A	C	
LIGHTS - MAINTENANCE AND STORAGE, PIPE GALLERY	4.5		20/1	1	●		2	20/1	10.0		HAND DRYER - MEN'S HANDICAPPED
LIGHTS - TELEPHONE BOOTHS		1.0	20/1	3		●	4	20/1*		6.0	RECEPT - HANDICAPPED MEN'S, WOMEN'S, STORAGE
RECEPT - MEN'S RM, WOMEN'S RM, PIPE GALLERY	4.5		20/1*	5	●		6	20/1	---		SPARE
HAND DRYER - WOMEN'S RM (RIGHT HAND SIDE)		10.0	20/1	7	●		8	20/1		10.0	HAND DRYER - MEN'S RM (RIGHT HAND SIDE)
HAND DRYER - WOMEN'S RM (LEFT HAND SIDE)	10.0		20/1	9	●		10	20/1	10.0		HAND DRYER - MEN'S RM (LEFT HAND SIDE)
LIGHTS - KIOSK		1.5	20/1	11	●		12	20/1		10.0	HAND DRYER - WOMEN'S HANDICAPPED
LIGHTS - EXTERIOR AREA AND SPOT	5.0		20/1	13	●		14	20/1*	3.0		RECEPT - HANDICAPPED WOMEN'S, STORAGE
LIGHTS - MEN'S RM, WOMEN'S RM, BUILDING OUTSIDE		7.5	20/2	15	●		16	40/2	---		SPARE
	9.5			17	●		18	40/2	---		
WATER HEATER		11.0	20/2	19	●		20	20/2	---		SPARE
	11.0			21	●		22	20/2	---		
SPARE		---	20/2	23	●		24	20/1		2.0	IRRIGATION CONTROLLER
				25	●		26	20/1	1.0		LIGHTING CONTROL
AIR VOLUME CONTROLLER		2.0	20/1	27	●		28	20/1*		3.0	UPS - AUTOMATIC FLUSH SYSTEM
SPARE		---	20/1	29	●		30	20/1	---		SPARE

* (E) GFCI TYPE CIRCUIT BREAKER

A	C	TOTAL AMPERES PER PHASE
68.5	64.0	

MODIFIED

DESIGN BY Jagtar Dhaliwal	CHECKED Mark Cheap	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	SOUTHBOUND	GAVIOTA SRRA UPGRADE	SHEET EE2-5
				51R0001L			
DETAILS BY Kathi Andreasen	CHECKED Jagtar Dhaliwal	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3659 05000204181	POST MILE	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	
QUANTITIES BY Jagtar Dhaliwal	CHECKED Mark Cheap			DISREGARD PRINTS BEARING EARLIER REVISION DATES			3/28/12 5/23/12 6/19/12 7/26/12 9/27/12 12/04/12 12/15/12 3/6/13

EA 05-1A6201 17_ee2_05.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101	46.9	118	130

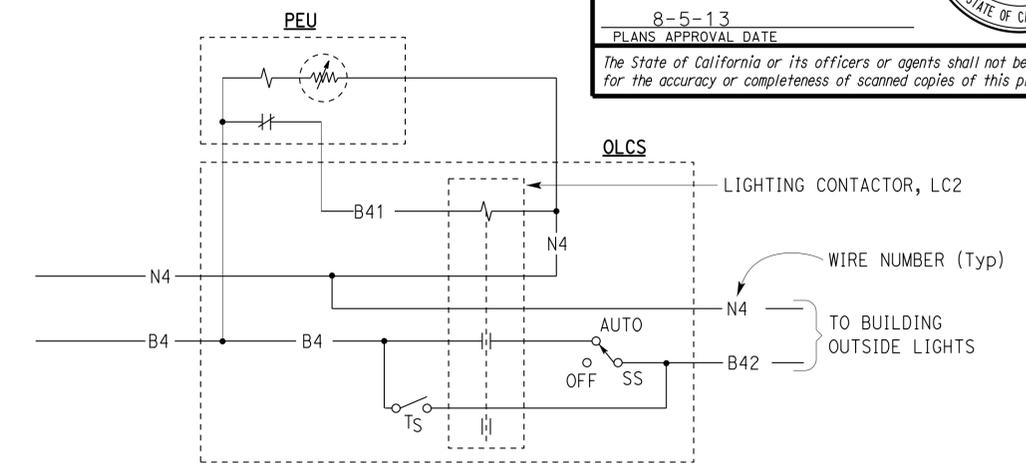
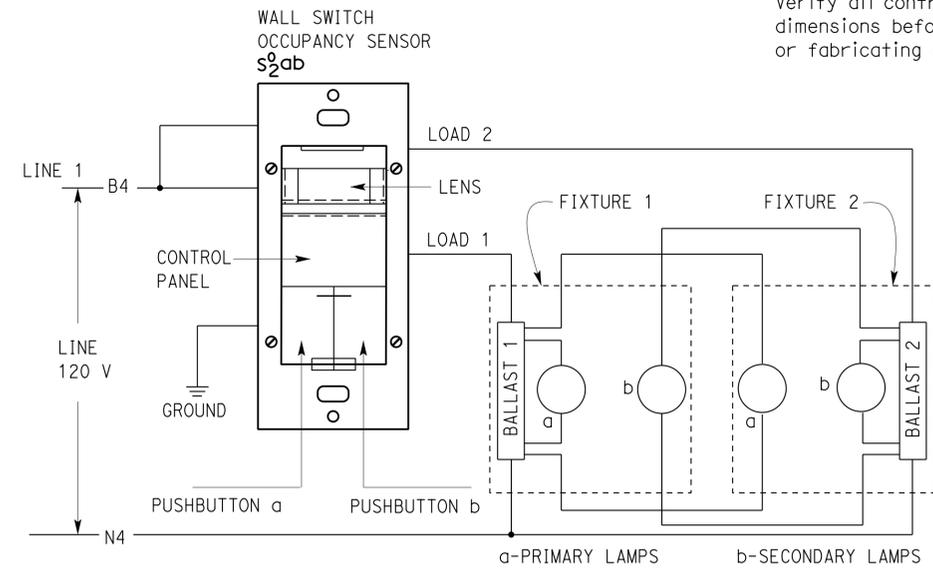
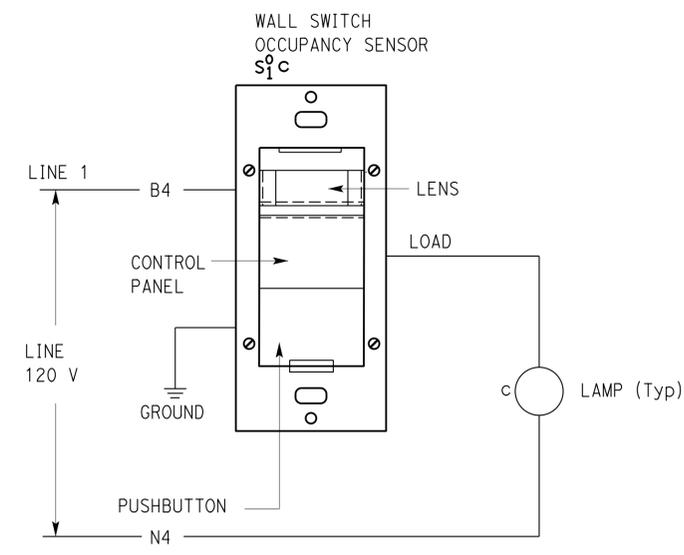
Reviewed by: <i>Jagtar Dhalial</i>	3/6/13
REGISTERED ELECTRICAL ENGINEER	DATE

8-5-13
PLANS APPROVAL DATE

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Reviewed by: *Polly Parenti*
POLLY PARENTI
Approval date: 12-19-12

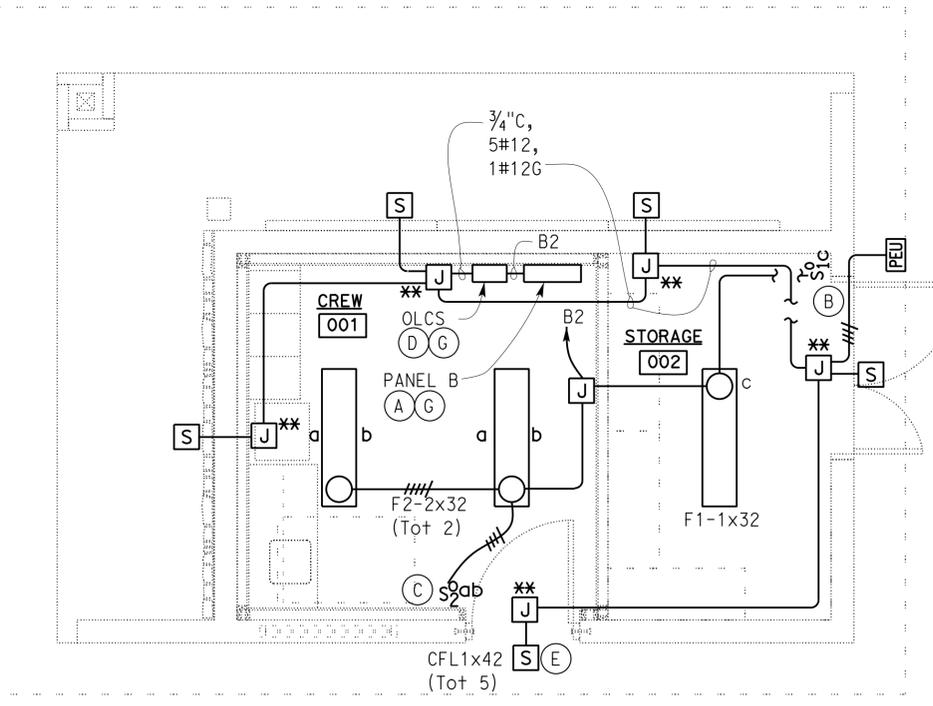
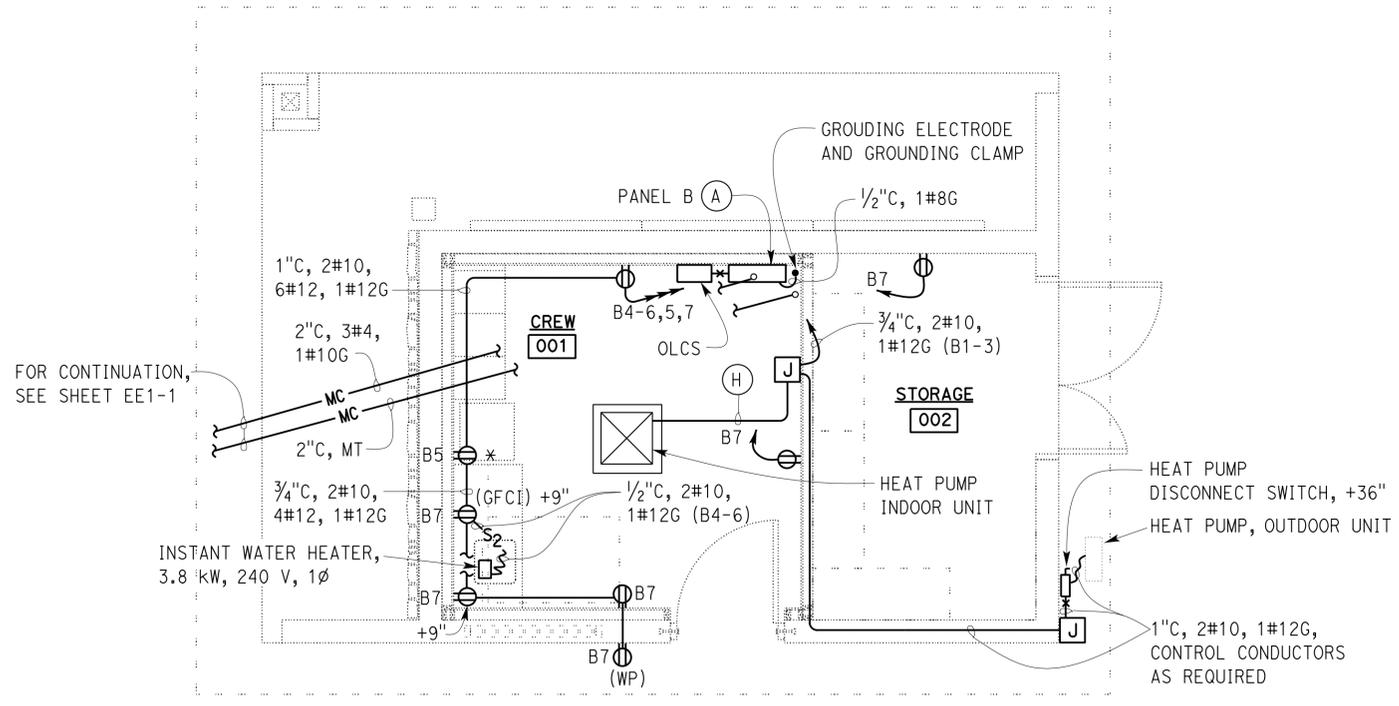
GENERAL NOTE:
Verify all controlling field dimensions before ordering or fabricating any material.



1 WALL SWITCH OCCUPANCY SENSOR WIRING DIAGRAM

2 WALL SWITCH OCCUPANCY SENSOR WIRING DIAGRAM

3 BUILDING OUTSIDE LIGHTING CONTROL SCHEMATIC



- NOTES:
- (A) For panel schedule, see $\frac{EE3-2}{-}$.
 - (B) For wiring diagram, see $\frac{1}{-}$.
 - (C) For wiring diagram, see $\frac{2}{-}$.
 - (D) Lighting Control Station. For schematics, see $\frac{3}{-}$.
 - (E) For mounting detail, see $\frac{A2-02}{-}$.
 - (G) Install Arc Flash Warning Label on LCS2 panel to comply with CEC 110.16.
 - (H) For warning label, see $\frac{1}{EE3-2}$.
 - (I) 3/4" C, install power and control conductors as required.

* DEDICATED GFCI RECEPTACLE FOR REFRIGERATOR

** JUNCTION BOX WITH A BALLAST

POWER PLAN
3/8" = 1'-0"

LIGHTING PLAN
3/8" = 1'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY Jagtar Dhalial	CHECKED Mark Cheap
DETAILS	BY Kathi Andreasen	CHECKED Jagtar Dhalial
QUANTITIES	BY Jagtar Dhalial	CHECKED Mark Cheap

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 51R0001R
POST MILE

GAVIOTA SRRA UPGRADE
NORTHBOUND CREW BUILDING
POWER AND LIGHTING PLAN

SHEET **EE3-1** OF

MAIN: 60-AMPERE CB
VOLTS: 120/240 V, 1Ø, 3-WIRE

PANEL B

FEEDER SIZE: 3#4, 1#10G
LOCATION: (N) CREW BLDG

DESCRIPTION	AMPERES		Brk	Ckt	A	B	Ckt	Brk	AMPERES		DESCRIPTION
	A	B							A	B	
HEAT PUMP	12	12	20/2	1	●	●	2	20/1	3.0		LIGHTS
				3			4	20/2	16	16	
REFRIGERATOR	4.5		20/1	5	●	●	6	20/1			SPARE
RECEPTACLES		9.0	20/1	7			8	20/1			
SPARE			20/1	9	●	●	10	20/1			SPARE
SPARE			20/1	11			12	20/1			

A	B	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
35.5	37	

WARNING

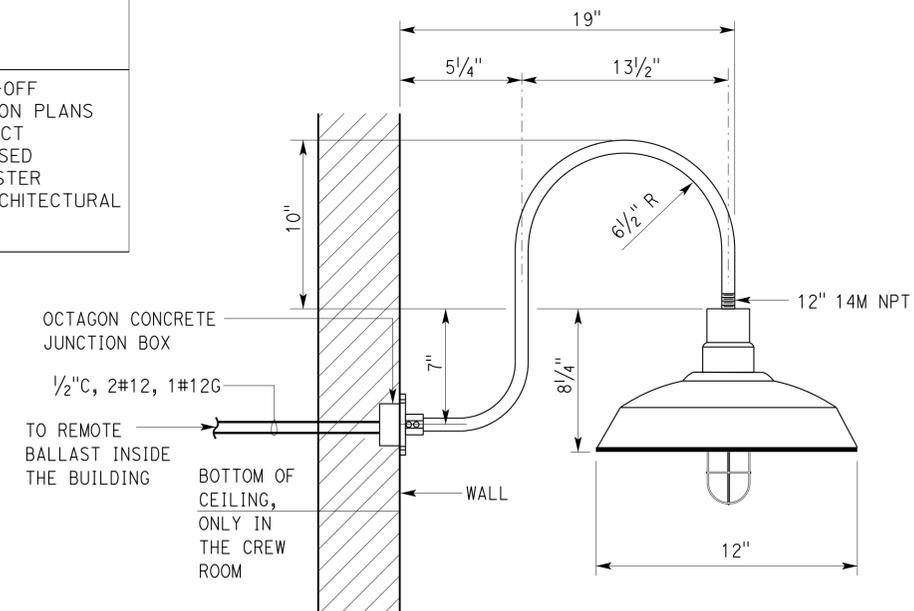
Arc Flash and Shock Hazards
Appropriate PPE Required

Available Fault Current:
1000 AMPERES

Calculation Date:
07-24-12

1 WARNING LABEL
NO SCALE

LIGHTING FIXTURE SCHEDULE								
TYPE	MOUNTING	LAMPS			BALLAST		DESCRIPTION	
		No.	WATT	TYPE	MINIMUM LUMENS	TYPE		VOLTS
F1	PENDANT	1	32	T8	3000	ELECTRONIC	120	48" x 8.5" x 4.5" WRAPAROUND FIXTURE WITH WHITE NORMAL BEAM REFLECTOR AND CLEAR PRISMATIC 50% DR ACRYLIC LENS.
F2	SURFACE MOUNTED	2	32	T8	6000	ELECTRONIC	120	48" x 8.5" x 4.5" WRAPAROUND FIXTURE WITH WHITE NORMAL BEAM REFLECTOR AND CLEAR PRISMATIC 50% DR ACRYLIC LENS.
CFL1	OUTDOOR WALL MOUNTED	1	42	CFL	2500	ELECTRONIC	120	OUTDOOR WALL MOUNTED LUMINAIRE SHOWN ON PLANS, CUT-OFF LUMINAIRE, REMOTE BALLAST MOUNTED AT LOCATION SHOWN ON PLANS WITH SOCKET BASE SUITABLE FOR ONE 42 WATT TRT COMPACT FLUORESCENT LAMP WITH TEMPERED CLEAR LENS. ALL EXPOSED DIE-CAST SURFACE MUST HAVE A SUPER THERMOSET POLYESTER POWDER COAT PAINT. FOR FIXTURE FINISH SCHEDULE, SEE ARCHITECTURAL FINISH SCHEDULE PLAN. THE LAMP MUST HAVE A WIREGUARD.



2 WALL MOUNT CFL1-1x42
NO SCALE

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101	46.9	119	130

Jagtar Dhalival 3/6/13
REGISTERED ELECTRICAL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
Jagtar Dhalival
No. E 16915
Exp. 6/30/15
ELEC
STATE OF CALIFORNIA

8-5-13
PLANS APPROVAL DATE

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CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *Polly Parenti*
POLLY PARENTI

Approval date: 12-19-12

DESIGN	BY Jagtar Dhalival	CHECKED Mark Cheap
DETAILS	BY Kathi Andreasen	CHECKED Jagtar Dhalival
QUANTITIES	BY Jagtar Dhalival	CHECKED Mark Cheap

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

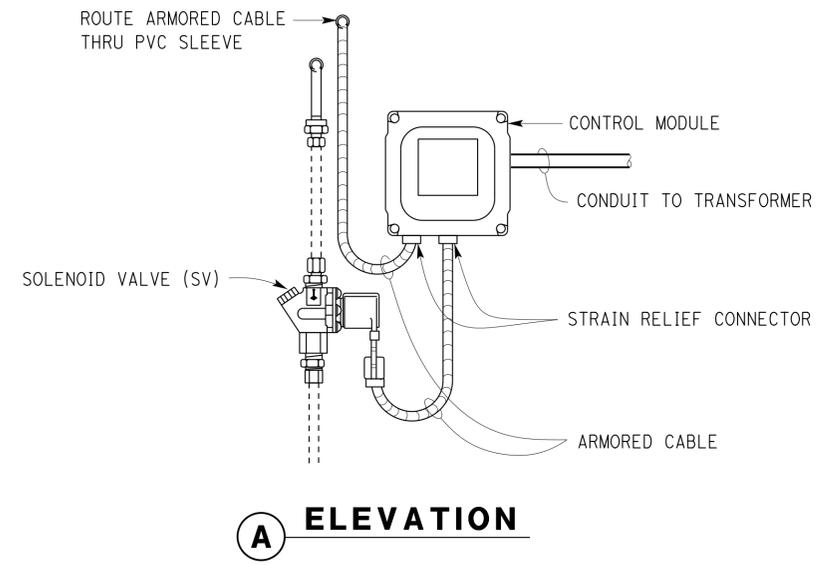
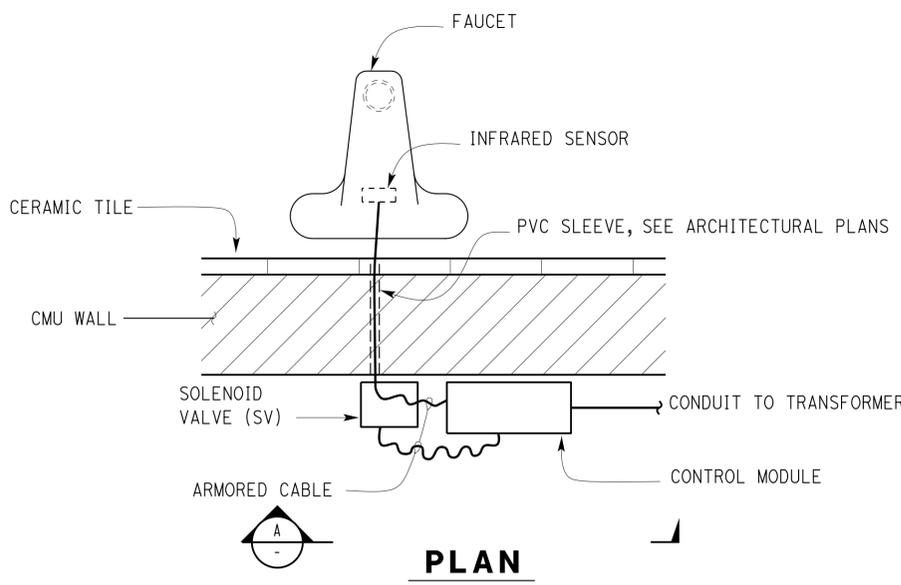
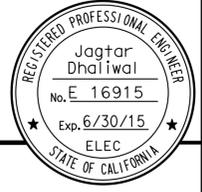
BRIDGE NO. 51R0001R	GAVIOTA SRRA UPGRADE	SHEET
POST MILE		EE3-2
NORTHBOUND CREW BUILDING		PANEL SCHEDULE, LIGHTING FIXTURE SCHEDULE AND DETAILS

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101	46.9	120	130

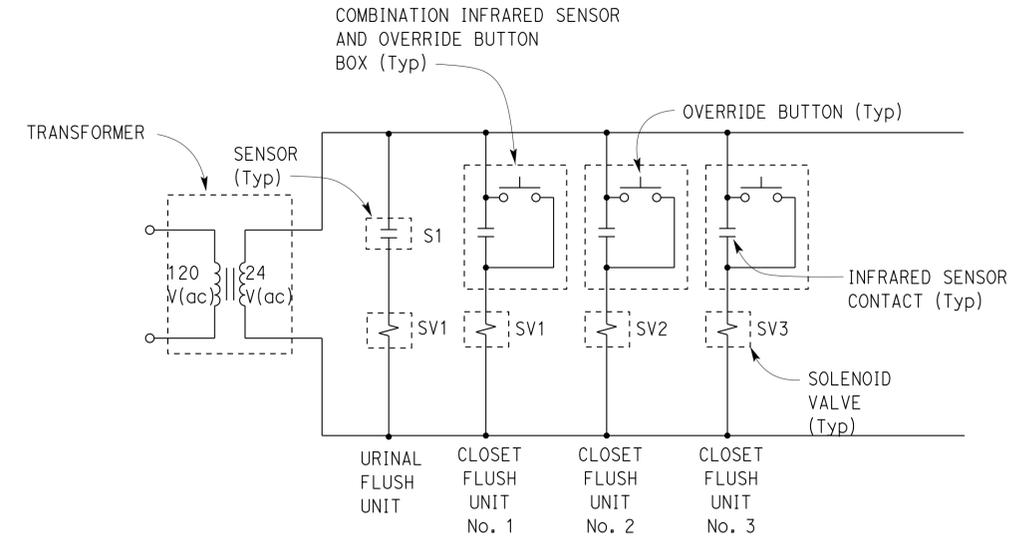
Jagtar Dhalival 3/6/13
 REGISTERED ELECTRICAL ENGINEER DATE

8-5-13
 PLANS APPROVAL DATE

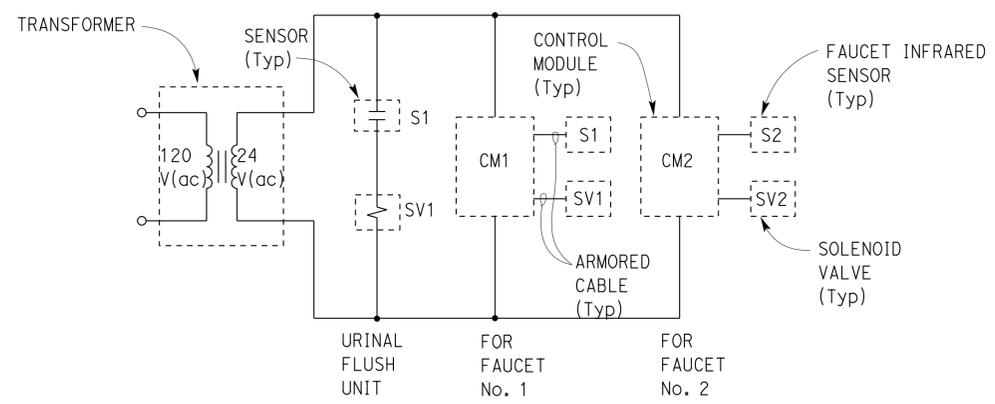
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TYPICAL SENSOR OPERATED FAUCET
NO SCALE



SENSOR OPERATED WATER CLOSET AND URINAL SCHEMATIC
NO SCALE



SENSOR OPERATED FAUCET AND URINAL SCHEMATIC
NO SCALE

GENERAL NOTES:

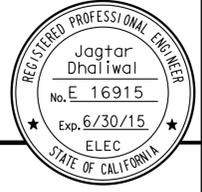
1. The schematic diagrams and detail that are shown on this sheet are based on one manufacturer for reference only. Exact wiring and installation depends on the units furnished. You must furnish and install any additional components, conduits, conductors and cables necessary for the automatic operation without additional cost to the State.
2. Schematics of sensor operated urinal, water closet and faucet shown on this sheet are partial and for reference only. For quantity of faucets and water closets per transformer, see "AUTOMATIC FLUSH SYSTEM" plans.
3. You have the option of installing 1/2" flexible conduit, with conductors as required, in lieu of the armored cable.

DESIGN	BY	Jagtar Dhalival	CHECKED	Mark Cheap	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 51R0001R/L	GAVIOTA SRRA UPGRADE		SHEET EE4-1					
	DETAILS	BY	Kathi Andreasen	CHECKED				Jagtar Dhalival	NORTHBOUND & SOUTHBOUND		AUTOMATIC FLUSH SYSTEM DETAILS				
QUANTITIES	BY	Jagtar Dhalival	CHECKED	Mark Cheap	UNIT PROJECT NUMBER & PHASE	3659 05000204181	POST MILE	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF					
TAEMWW Imperial Rev. 3/12					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	5/28/12	5/28/12	6/19/12	9/27/12	12/14/12	12/5/12	3/6/13	

08-NOV-2013 10:09

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101	46.9	121	130

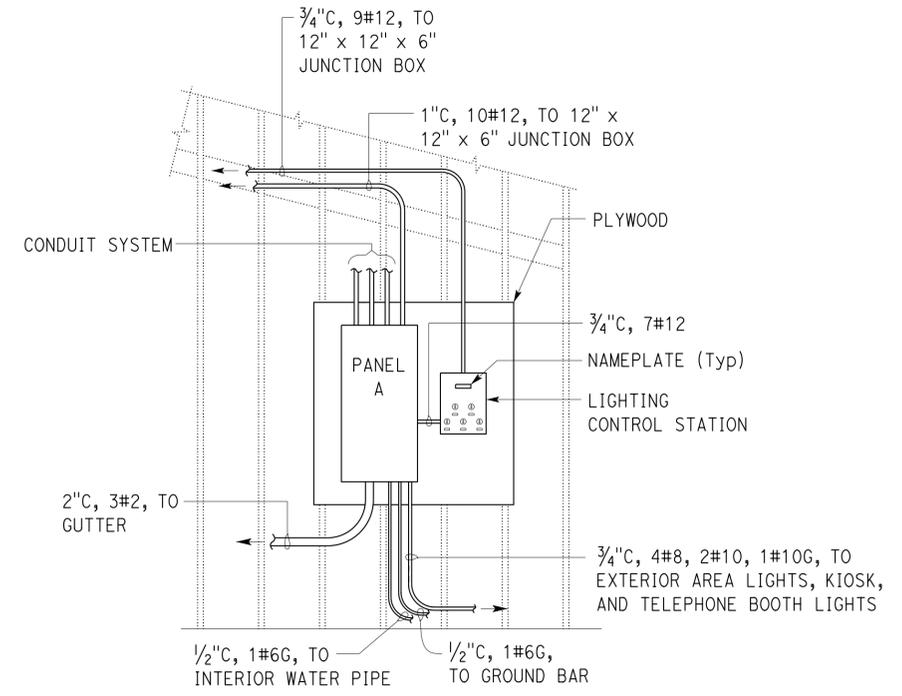
<i>Jagtar Dhaliwal</i> REGISTERED ELECTRICAL ENGINEER		3/6/13 DATE
8-5-13 PLANS APPROVAL DATE		
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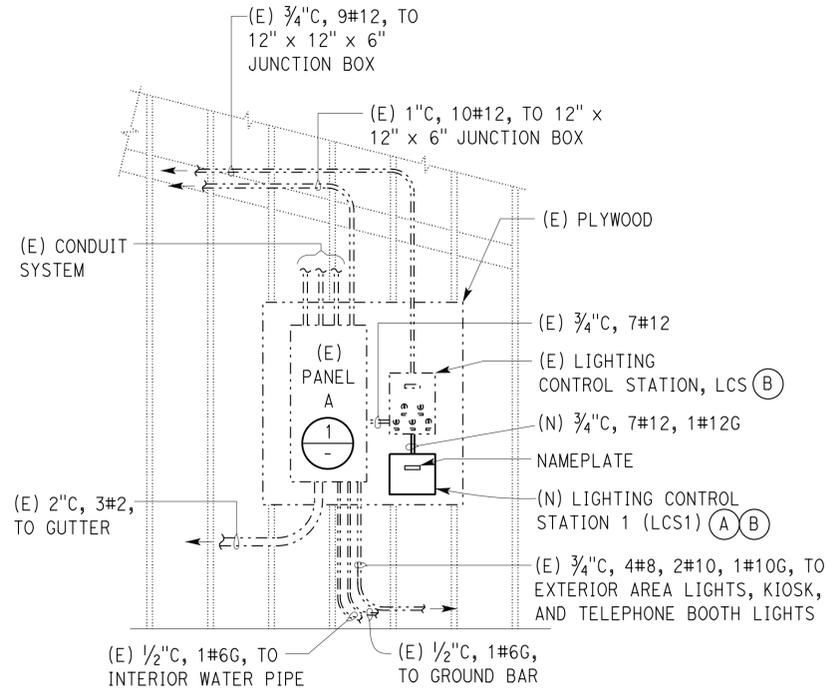
GENERAL NOTE:
Verify all controlling field dimensions before ordering or fabricating any material.

- NOTES:
- (A) For Lighting Control Station 1 schematics, see sheet EE4-3.
 - (B) Install Arc Flash Warning Label on the panel to comply with CEC 110.16.

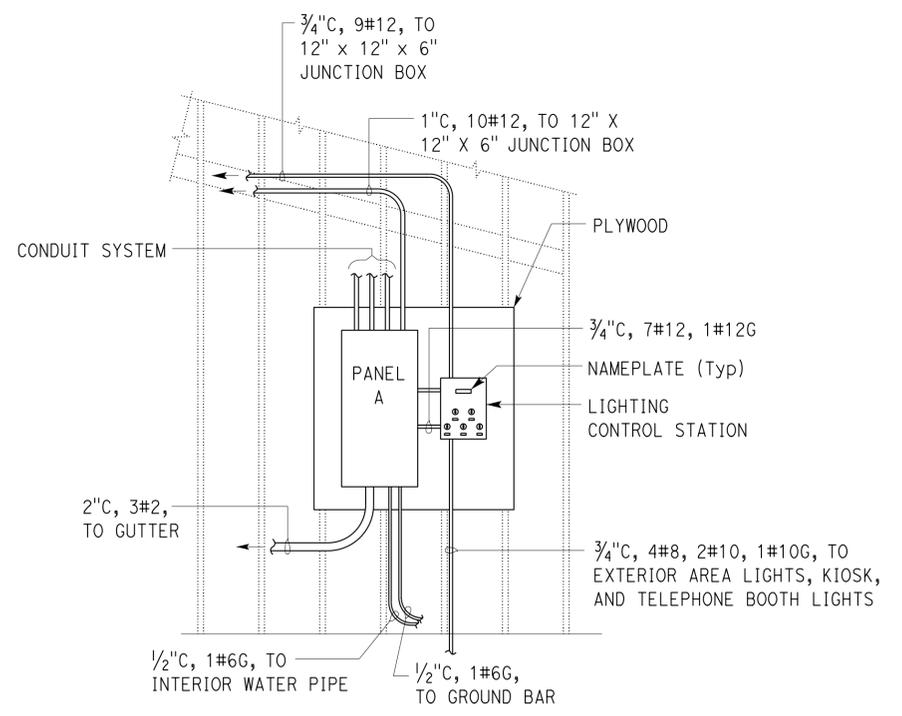
CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *Polly Parenti*
 POLLY PARENTI
 Approval date: 12-19-12



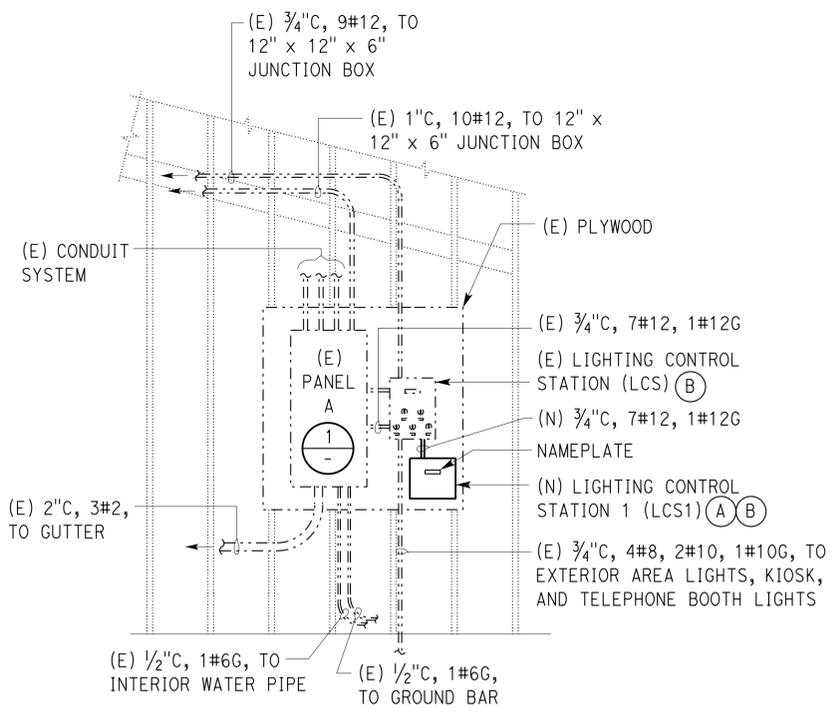
A EXISTING NORTHBOUND ELEVATION
 $1/2'' = 1'-0''$



B MODIFIED NORTHBOUND ELEVATION
 $1/2'' = 1'-0''$



C EXISTING SOUTHBOUND ELEVATION
 $1/2'' = 1'-0''$



D MODIFIED SOUTHBOUND ELEVATION
 $1/2'' = 1'-0''$

WARNING

Arc Flash and Shock Hazards
Appropriate PPE Required

Available Fault Current:
1500 AMPERES

Calculation Date:
07-24-12

1 WARNING LABEL
NO SCALE

Note: Panel A must be legibly marked in the field, with the available fault current to comply with NEC 110.24(A).

TAEWW Imperial Rev. 3/12	DESIGN	BY Jagtar Dhaliwal	CHECKED Mark Cheap	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	GAVIOTA SRRA UPGRADE PANEL ELEVATIONS	SHEET	
	DETAILS	BY Kathi Andreasen	CHECKED Jagtar Dhaliwal		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	51R0001R/L		POST MILE	OF
	QUANTITIES	BY Jagtar Dhaliwal	CHECKED Mark Cheap		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3659 05000204181		DISREGARD PRINTS BEARING EARLIER REVISION DATES	
				0 1 2 3	REVISION DATES (PRELIMINARY STAGE ONLY) 5/28/12 5/28/12 6/28/12 7/26/12 9/27/12 12/04/12 12/5/12 3/6/13		SHEET 121 OF 130		

08-NOV-2013 10:09

GENERAL NOTES:

- All Comfort Station building lights shall be controlled by PEC and time clock ("ON" one hour before dusk and "OFF" one hour after dawn).
- Install a warning plate on the exterior door of Lighting Control Station 1. Inscription shall read "DISCONNECT CIRCUIT BREAKERS 15, 17, AND 26 FROM PANEL A TO DE-ENERGIZE POWER TO LIGHTING CONTROL STATION 1".

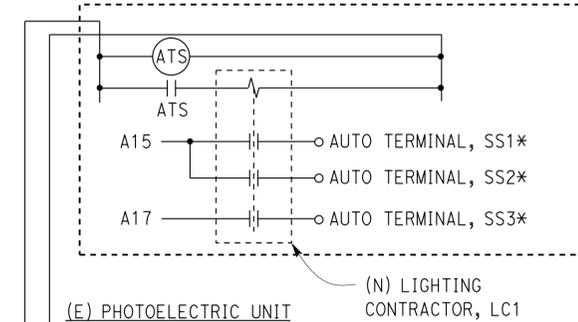
CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: Polly Parenti
 POLLY PARENTI
 Approval date: 12-19-12

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101	46.9	122	130

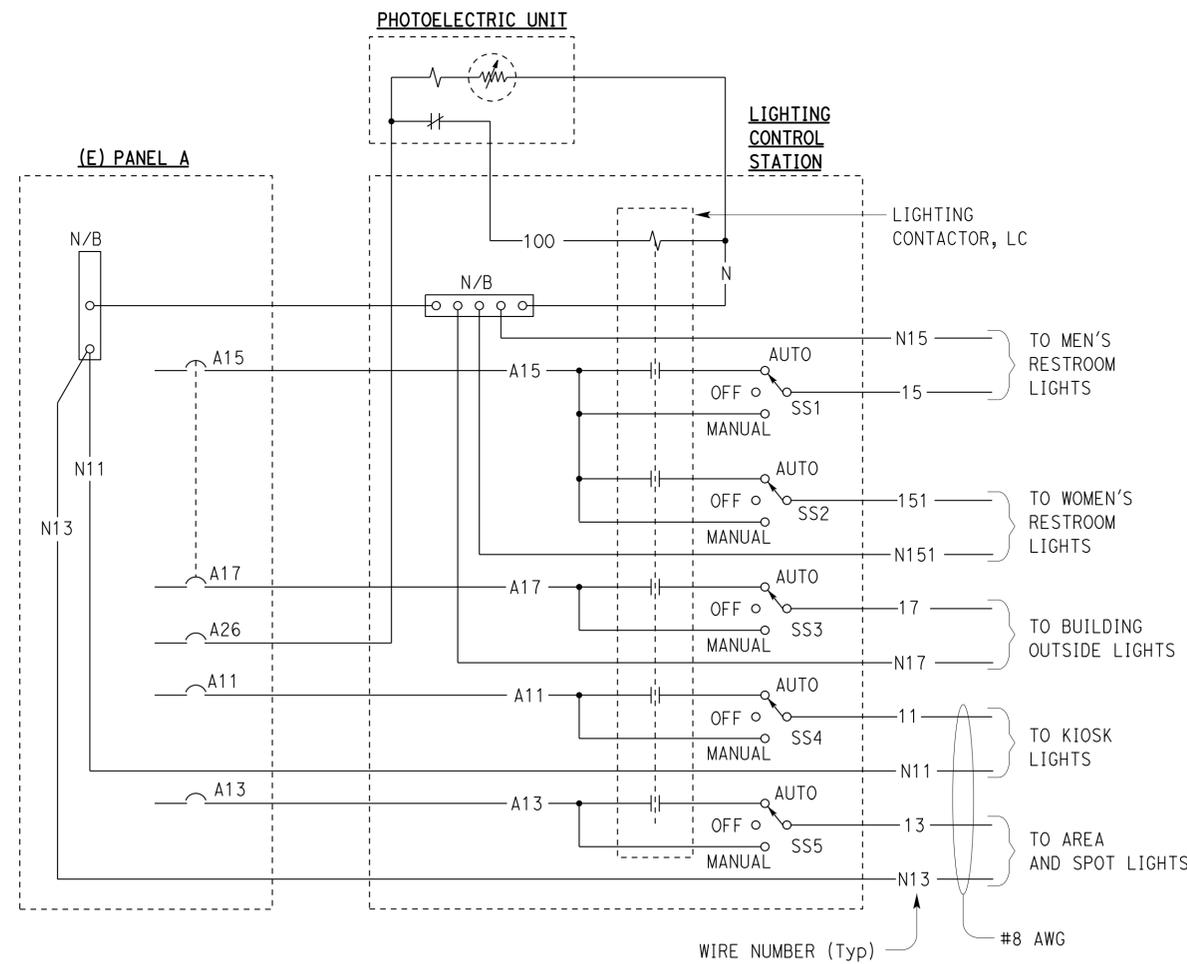
Reviewed by: Jagtar Dhalial 3/6/13
 REGISTERED ELECTRICAL ENGINEER DATE
 Jagtar Dhalial
 No. E 16915
 Exp. 6/30/15
 ELEC
 STATE OF CALIFORNIA
 8-5-13
 PLANS APPROVAL DATE

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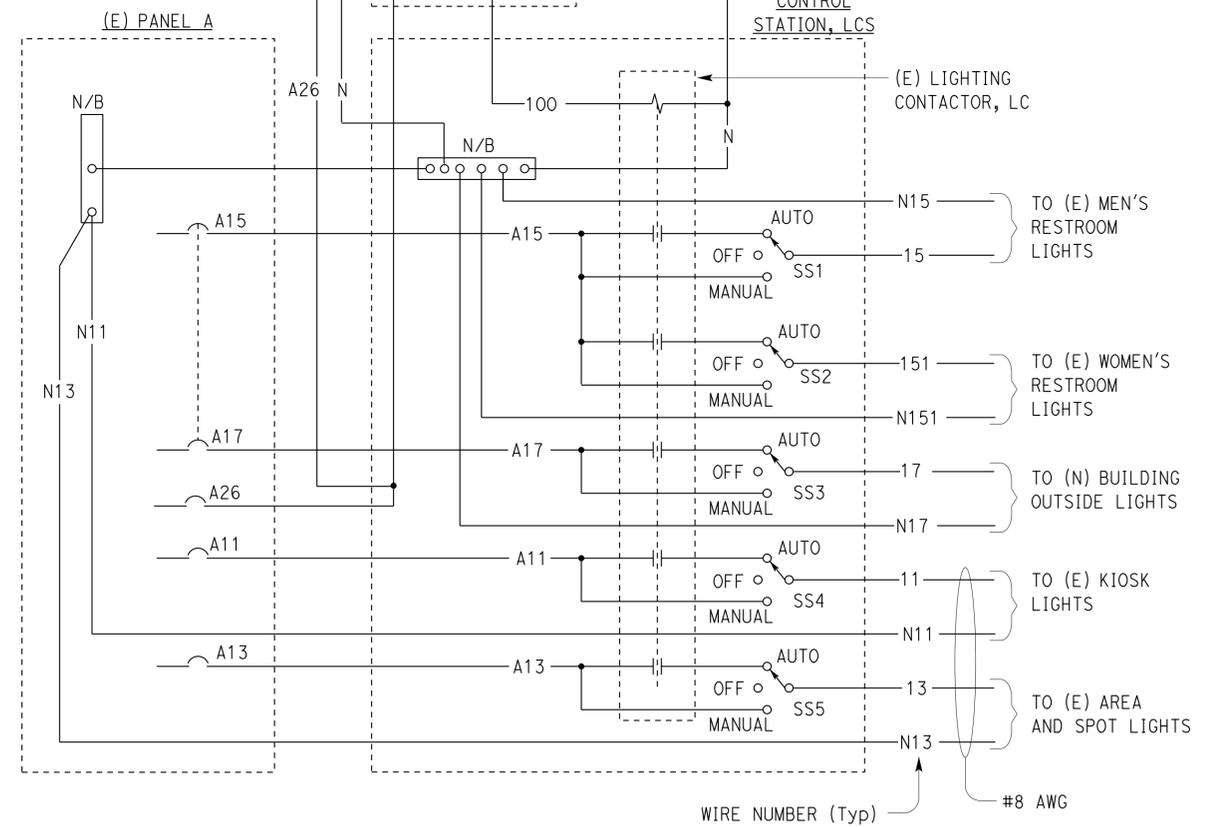
(N) LIGHTING CONTROL STATION 1, LCS1



* IN (E) LIGHTING CONTROL STATION, LCS



EXISTING



MODIFIED

DESIGN	BY Jagtar Dhalial	CHECKED Mark Cheap
DETAILS	BY Kathi Andreasen	CHECKED Jagtar Dhalial
QUANTITIES	BY Jagtar Dhalial	CHECKED Mark Cheap

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 51R0001R/L
 POST MILE

GAVIOTA SRR A UPGRADE
 NORTHBOUND & SOUTHBOUND
LIGHTING CONTROL SCHEMATIC

SHEET **EE4-3**

ABBREVIATIONS

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

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		MANHOLE
			COTG

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101	46.9	123	130

REGISTERED CIVIL ENGINEER
 DATE 09/27/12
 8-5-13
 PLANS APPROVAL DATE
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 Reviewed by: Polly Parenti
 POLLY PARENTI
 Approval date: 12-19-12

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

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

Type of Fitting	90° Bend	45° Bend	11 1/4° or 22 1/2° Bend	Tee or Dead end	Cross w/plug	Tee w/plug
Typical Installation						

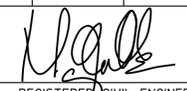
THRUST BLOCK BEARING AREA (SQ. FT.)

Type of Fitting	90° Bend	45° Bend	11 1/4° or 22 1/2° Bend	Tee or Dead end	Tee w/ Plug	Cross w/ plug
Size of Pipe	4"	2	1	1	2	2
	6"	4	4	2	4	4
	8"	7	4	2	5	7
	10"	12	6	3	8	12
	12"	16	10	5	12	16
	14"	20	12	6	14	20
	16"	27	15	8	18	27
	18"	45	25	13	32	45
24"	65	35	18	46	65	

THIS DRAWING ACCURATE FOR SANITARY SEWER WORK ONLY

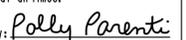
DESIGN BY Manjunath Akkipeddi CHECKED Jerry Marcotte DETAILS BY Manjunath Akkipeddi CHECKED Jerry Marcotte QUANTITIES BY Manjunath Akkipeddi CHECKED Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 51R0001R/L POST MILE 46.0/47.0	GAVIOTA SRRRA UPGRADE NOTES, LEGEND AND ABBREVIATIONS	SHEET SS-0 OF
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3616 05000204181	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 04/27/12 05/24/12 06/28/12 07/27/12 08/24/12 09/27/12	SHEET OF
	TAEMWW Imperial Rev. 3/12	EA 05-1A6201	08-NOV-2013 09:51 ss_0.dgn		

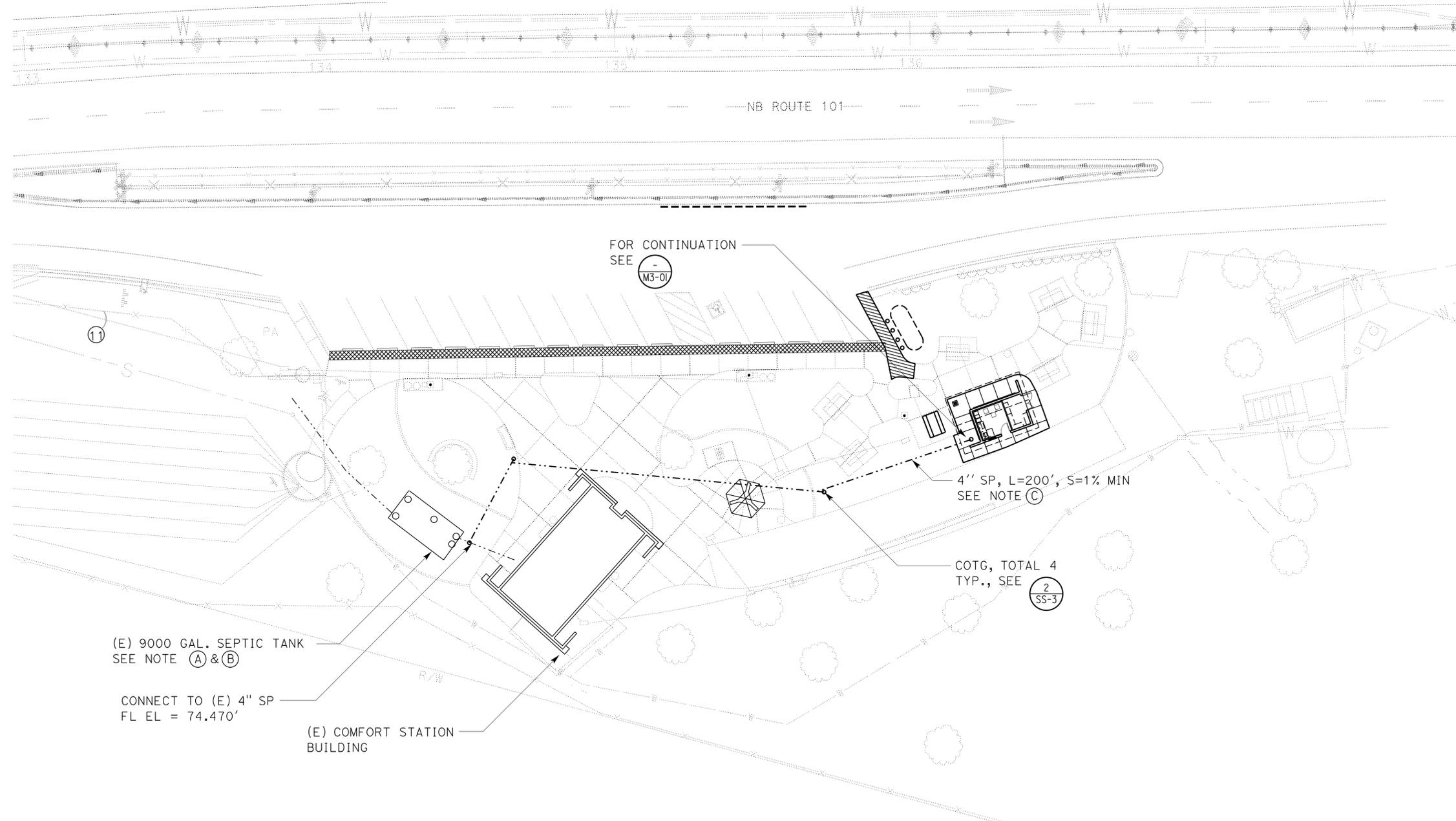
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101	46.9	124	130


 REGISTERED CIVIL ENGINEER
 DATE 09/27/12


8-5-13
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 Reviewed by: 
 POLLY PARENTI
 Approval date: 12-19-12



(E) 9000 GAL. SEPTIC TANK
SEE NOTE (A) & (B)

CONNECT TO (E) 4" SP
FL EL = 74.470'

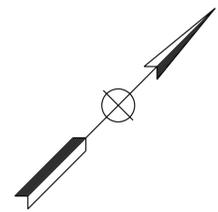
(E) COMFORT STATION
BUILDING

4" SP, L=200', S=1% MIN
SEE NOTE (C)

COTG, TOTAL 4
TYP., SEE (2/SS-3)

Notes

- (A) Pump out sewage / sludge from all three compartments of the septic tank. Remove the (E) water proof membrane from the interior walls of the septic tank.
- (B) Install 12" DIA outlet filter at the outlet of the Septic tank
- (C) Use trenchless method for installing sewer pipe under (E) concrete surface



NORTHBOUND SITE PLAN

SCALE 1" = 20'

THIS DRAWING ACCURATE FOR SANITARY SEWER WORK ONLY

DESIGN SUPERVISOR  DESIGN ENGINEER 	DESIGN BY Manjunath Akkipeddi CHECKED Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 51R0001R/L	GAVIOTA SRR A UPGRADE NORTHBOUND SITE PLAN	SHEET OF SS-1
	DETAILS BY Manjunath Akkipeddi CHECKED Jerry Marcotte		PROJECT NUMBER & PHASE 05000204181	POST MILE 46.0/47.0		REVISION DATES (PRELIMINARY STAGE ONLY) 04/27/12 05/24/12 06/28/12 07/27/12 08/24/12 09/27/12

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101	46.9	125	130


 REGISTERED CIVIL ENGINEER
 DATE 09/27/12

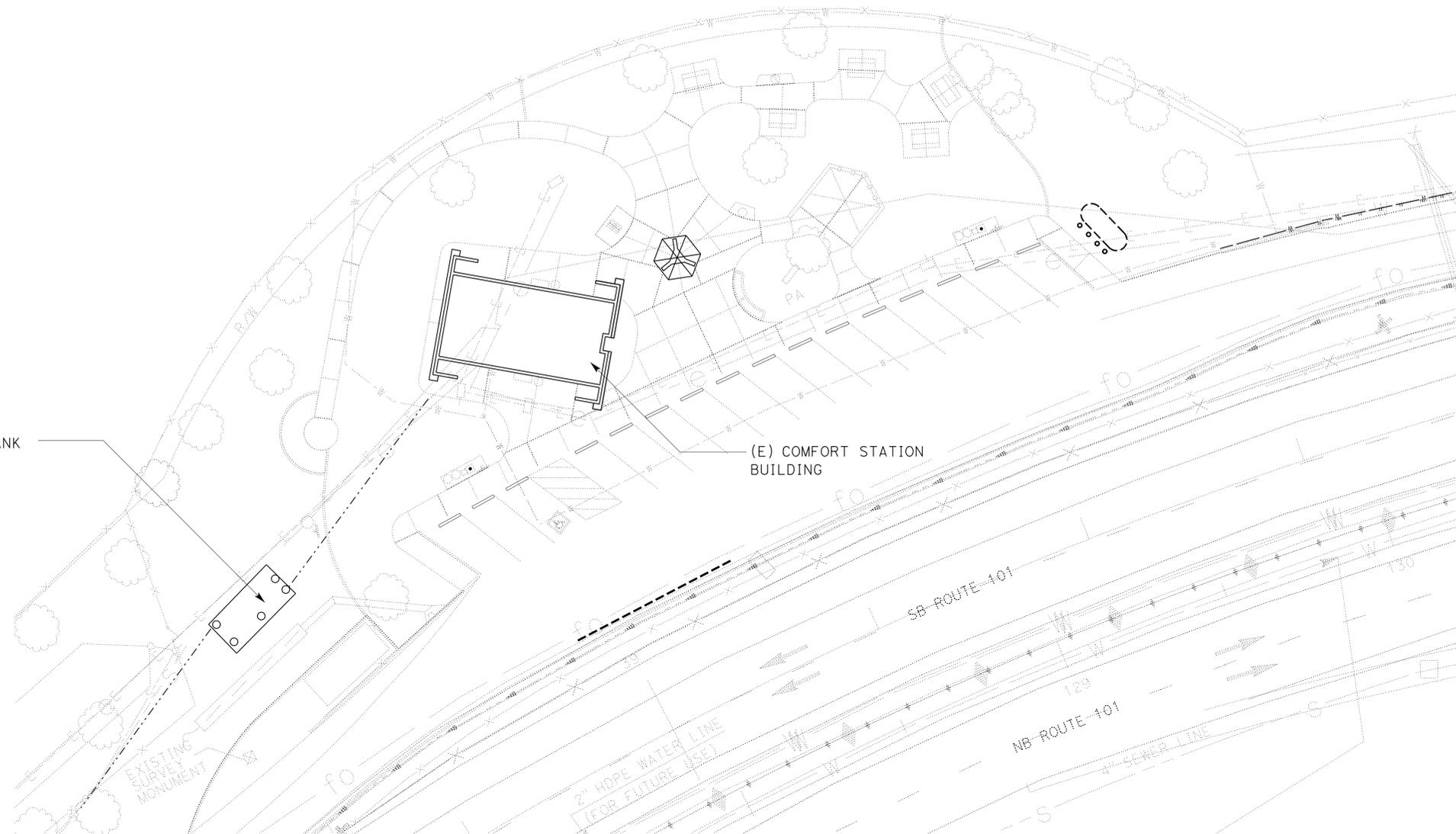
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 Reviewed by: *Polly Parenti*
 POLLY PARENTI
 Approval date: 12-19-12

(E) 9000 GAL. SEPTIC TANK
SEE NOTE (A) & (B)

(E) COMFORT STATION BUILDING

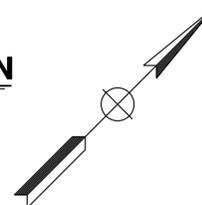


Notes

- (A) Pump out sewage / sludge from all three compartments of the septic tank. Remove the (E) water proof membrane from the interior walls of the septic tank.
- (B) Install 12" DIA outlet filter at the outlet of the Septic tank.

SOUTHBOUND SITE PLAN

SCALE 1" = 20'



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DESIGN BY Manjunath Akkipeddi CHECKED Jerry Marcotte DETAILS BY Manjunath Akkipeddi CHECKED Jerry Marcotte QUANTITIES BY Manjunath Akkipeddi CHECKED Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 51R0001R/L POST MILE 46.0/47.0	GAVIOTA SRR A UPGRADE SOUTHBOUND SITE PLAN	SHEET OF SS-2
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3616 05000204181 EA 05-1A6201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 04/27/12 05/24/12 06/28/12 07/27/12 08/24/12 09/27/12	SHEET OF
	TAEMWW Imperial Rev. 3/12	08-NOV-2013 09:51 ss_2.dgn			

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101	46.9	126	130

<i>Manjunath S. Akkipeddi</i>	09/27/12	REGISTERED CIVIL ENGINEER DATE
REGISTERED CIVIL ENGINEER		

8-5-13	PLANS APPROVAL DATE
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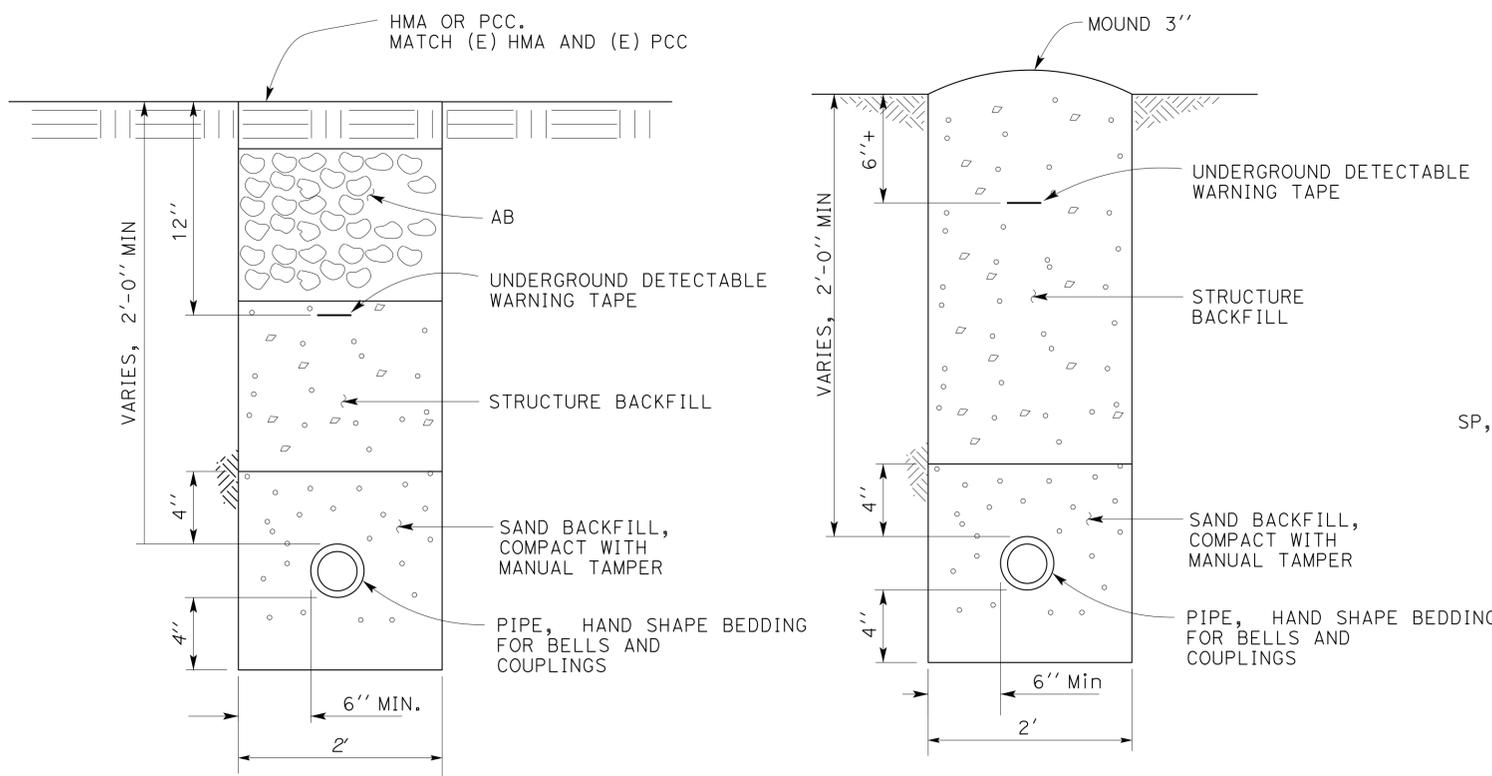
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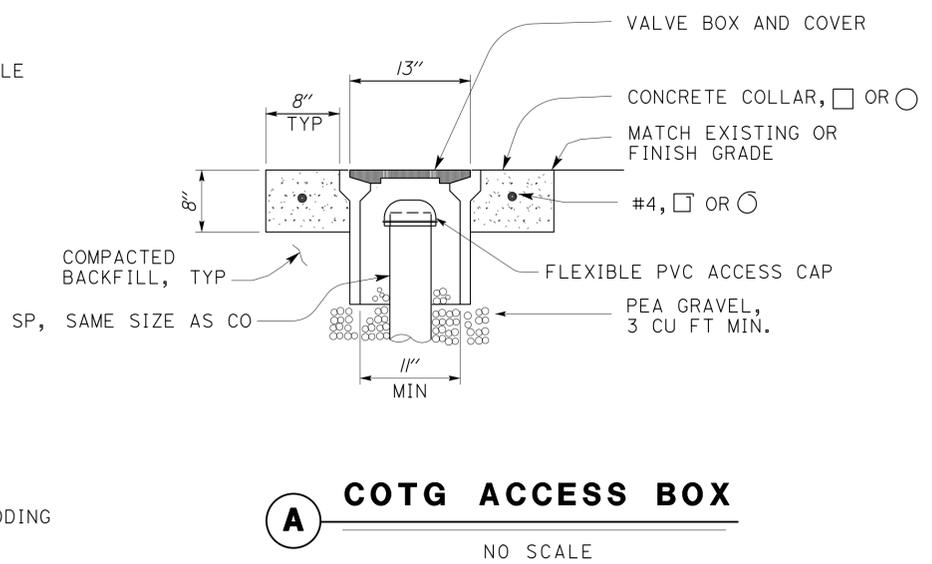
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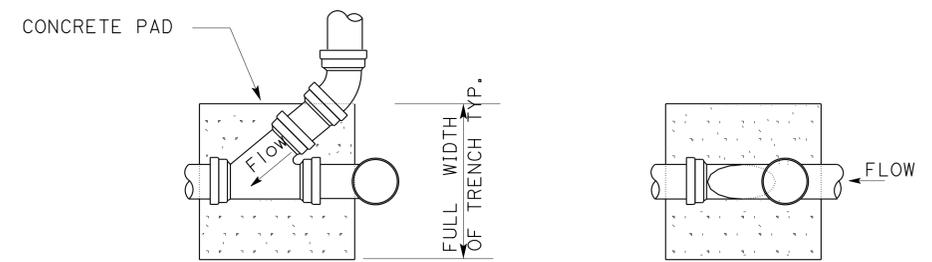
Reviewed by: *Polly Parenti*
POLLY PARENTI
Approval date: 12-19-12



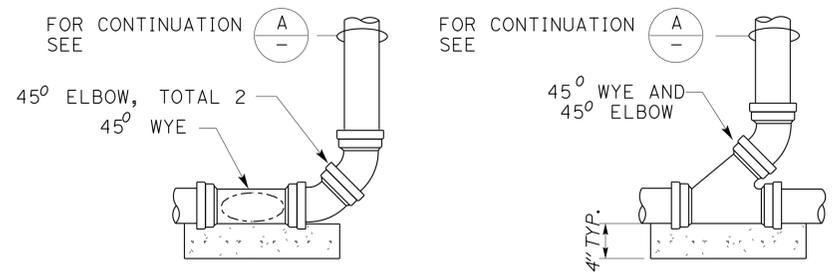
1 SEWER PIPE
NO SCALE



A COTG ACCESS BOX
NO SCALE



PLAN PLAN



ELEVATION ELEVATION

CLEANOUT (AT BEND) CLEANOUT (STANDARD)

2 CLEANOUT TO GRADE
NO SCALE

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DESIGN BY Manjunath Akkipeddi CHECKED Jerry Marcotte DETAILS BY Manjunath Akkipeddi CHECKED Jerry Marcotte QUANTITIES BY Manjunath Akkipeddi CHECKED Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 51R0001R/L POST MILE 46.0/47.0	GAVIOTA SRR A UPGRADE DETAILS	SHEET SS-3 OF
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3616 05000204181	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 04/27/12 05/24/12 06/28/12 07/27/12 08/24/12 09/27/12	SHEET OF

ABBREVIATIONS

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

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		MANHOLE
			COTG

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101	46.9	127	130

REGISTERED CIVIL ENGINEER DATE 09/27/12

8-5-13
 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: Polly Parenti
 POLLY PARENTI
 Approval date: 12-19-12

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

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

Type of Fitting	90° Bend	45° Bend	11 1/4° or 22 1/2° Bend	Tee or Dead end	Cross w/plug	Tee w/plug
Typical Installation						

THRUST BLOCK BEARING AREA (SQ. FT.)

Type of Fitting	90° Bend	45° Bend	11 1/4° or 22 1/2° Bend	Tee or Dead end	Tee w/ Plug	Cross w/ plug
Size of Pipe	4"	2	1	1	2	2
	6"	4	4	2	4	4
	8"	7	4	2	5	7
	10"	12	6	3	8	12
	12"	16	10	5	12	16
	14"	20	12	6	14	20
	16"	27	15	8	18	27
	18"	45	25	13	32	45
	18"	45	25	13	32	45
	24"	65	35	18	46	65

THIS DRAWING ACCURATE FOR SANITARY SEWER WORK ONLY

DESIGN BY Manjunath Akkipeddi CHECKED Jerry Marcotte DETAILS BY Manjunath Akkipeddi CHECKED Jerry Marcotte QUANTITIES BY Manjunath Akkipeddi CHECKED Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 51R0001R/L POST MILE 46.0/47.0	GAVIOTA SRRRA UPGRADE NOTES, LEGEND AND ABBREVIATIONS	SHEET W-0 OF
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3616 05000204181	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
	TAEMWW Imperial Rev. 3/12	EA 05-1A6201	04/27/12 05/24/12 06/28/12 07/27/12 08/24/12 09/27/12	x OF	x OF

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101	46.9	128	130


 REGISTERED CIVIL ENGINEER
 DATE 09/27/12

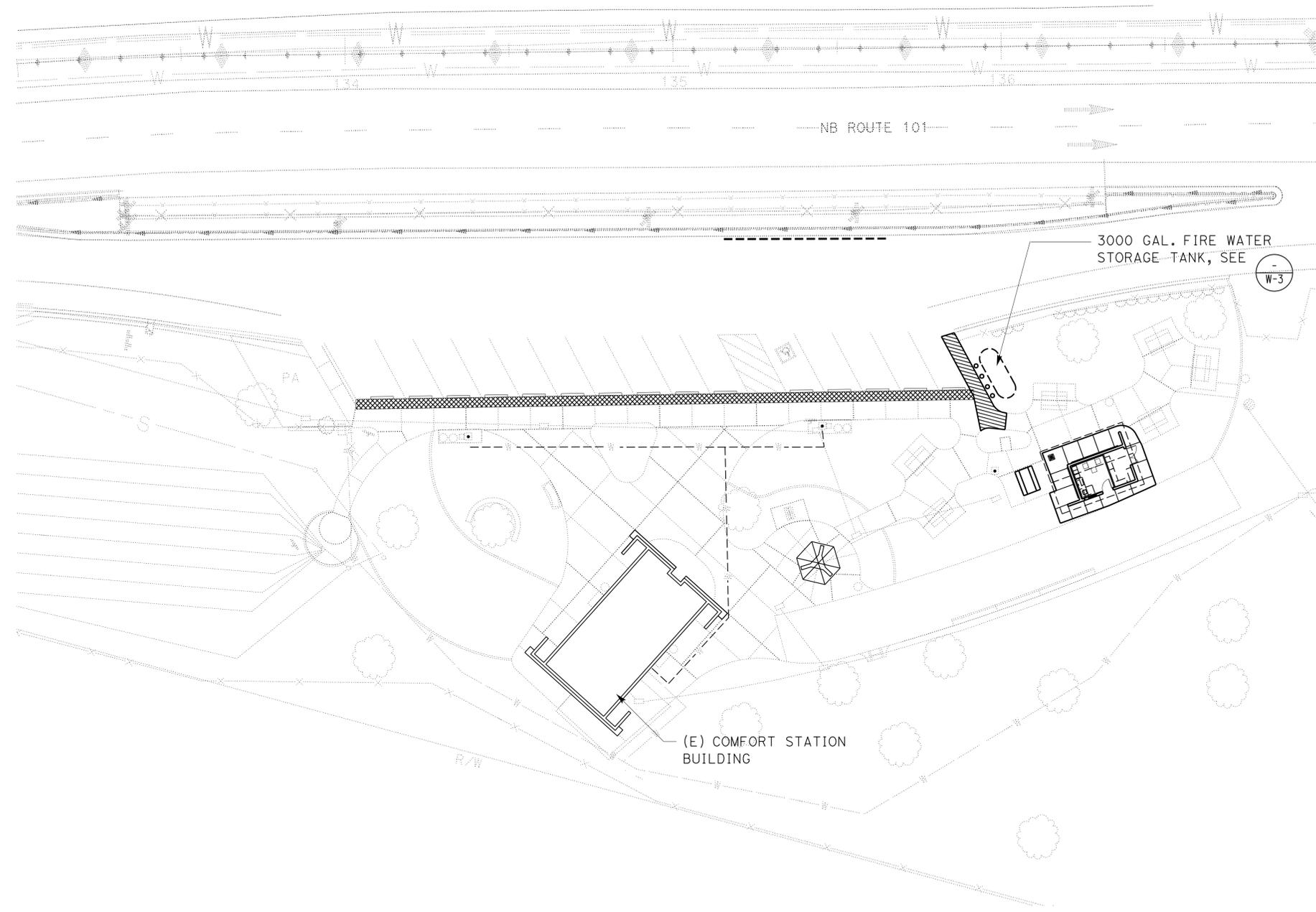

8-5-13
PLANS APPROVAL DATE

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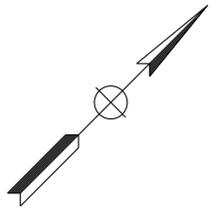
CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *Polly Parenti*
POLLY PARENTI
Approval date: 12-19-12



NORTHBOUND SITE PLAN
SCALE 1" = 20'



THIS DRAWING ACCURATE FOR WATER WORK ONLY

DESIGN SUPERVISOR  DESIGN ENGINEER	DESIGN BY Manjunath Akkipeddi	CHECKED Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 51R0001R/L	GAVIOTA SRR A UPGRADE NORTHBOUND SITE PLAN	SHEET OF W-1	
	DETAILS BY Manjunath Akkipeddi	CHECKED Jerry Marcotte			POST MILE 46.0/47.0			
	QUANTITIES BY Manjunath Akkipeddi	CHECKED Jerry Marcotte	UNIT PROJECT NUMBER & PHASE 3616 05000204181	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 04/27/12 05/24/12 06/28/12 07/27/12 08/24/12 09/27/12			

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101	46.9	129	130

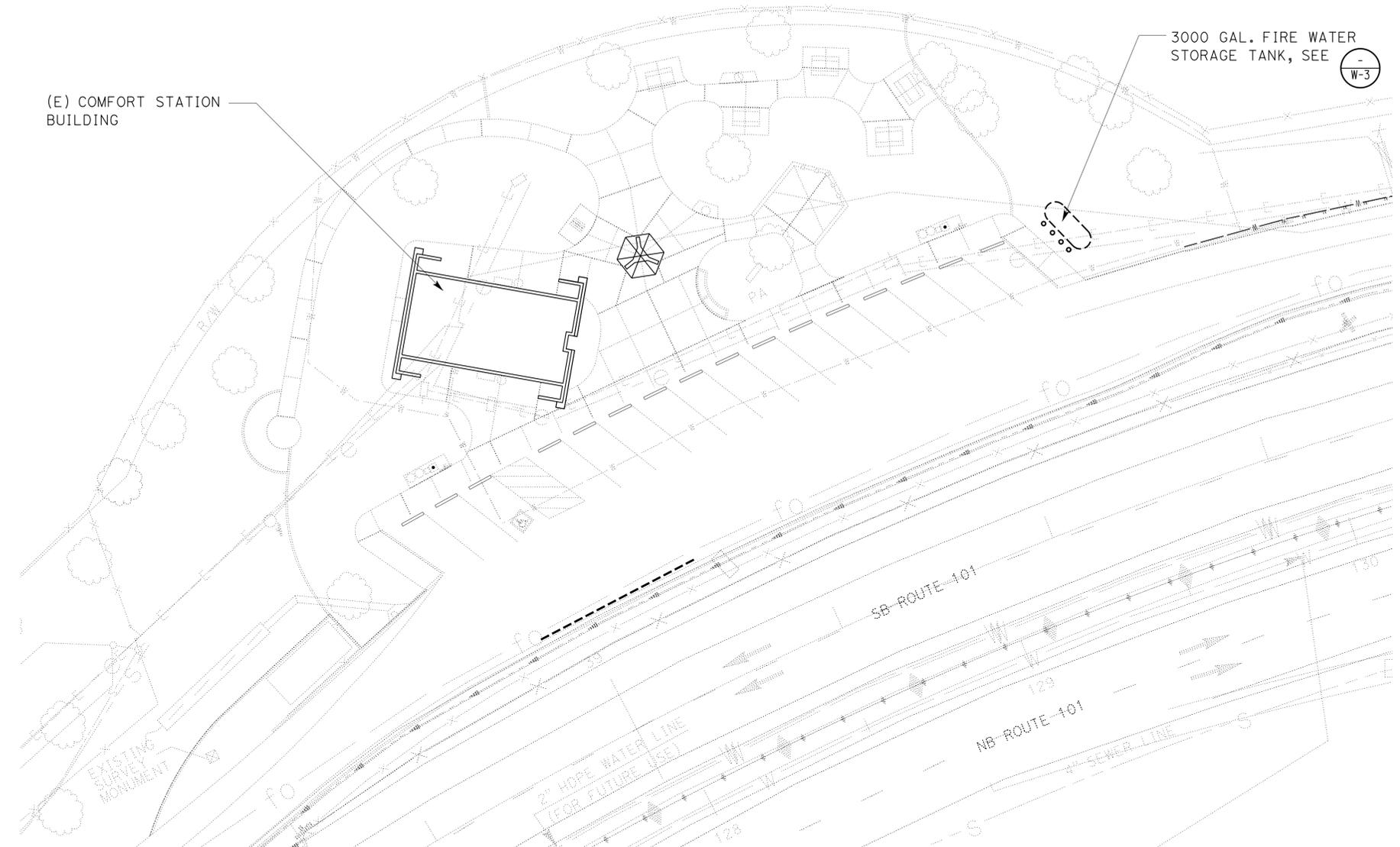

 REGISTERED CIVIL ENGINEER
 DATE 09/27/12



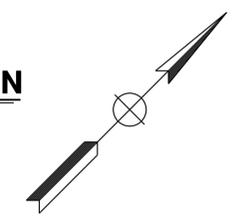
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CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *Polly Parenti*
 POLLY PARENTI
 Approval date: 12-19-12



SOUTHBOUND SITE PLAN
 SCALE 1" = 20'



THIS DRAWING ACCURATE FOR WATER WORK ONLY

TAEMWW Imperial Rev. 3/12	DESIGN BY Manjunath Akkipeddi CHECKED Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 51R0001R/L	GAVIOTA SRRA UPGRADE SOUTHBOUND SITE PLAN	SHEET OF W-2
	DETAILS BY Manjunath Akkipeddi CHECKED Jerry Marcotte		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE 46.0/47.0		
	QUANTITIES BY Manjunath Akkipeddi CHECKED Jerry Marcotte		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3616 05000204181		

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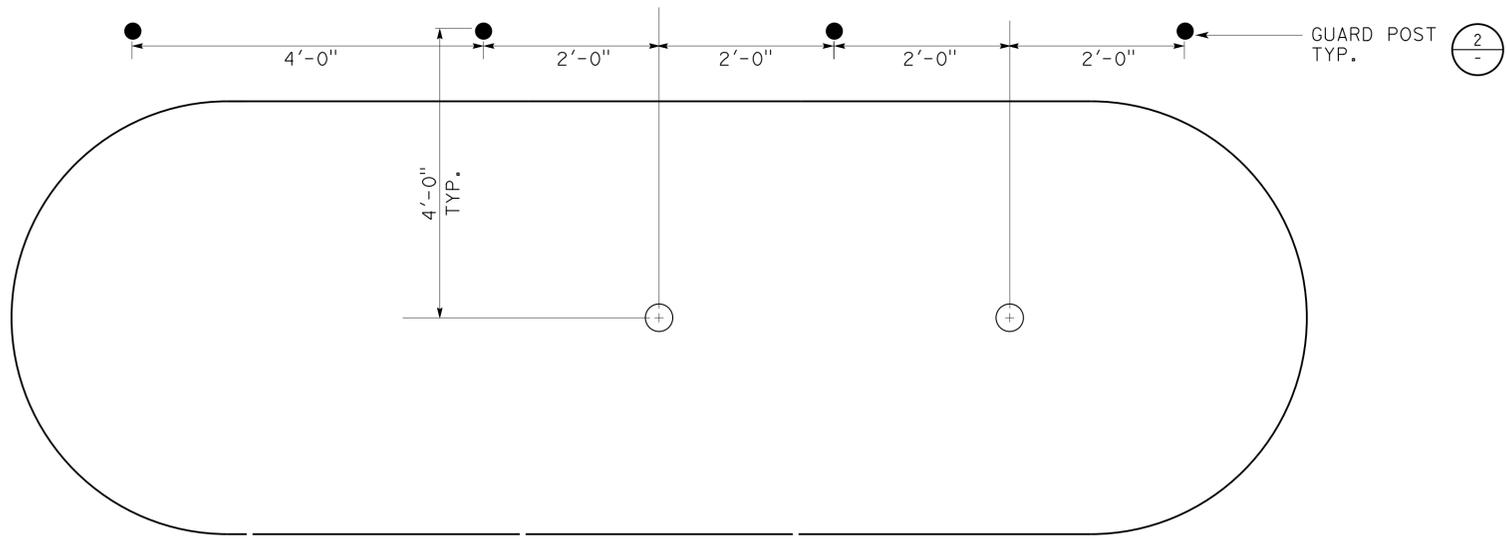
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101	46.9	130	130

REGISTERED CIVIL ENGINEER
 DATE 09/27/12
 Manjunath S. Akkipeddi
 No. C 78898
 Exp. 03/31/14
 CIVIL
 STATE OF CALIFORNIA

8-5-13
 PLANS APPROVAL DATE

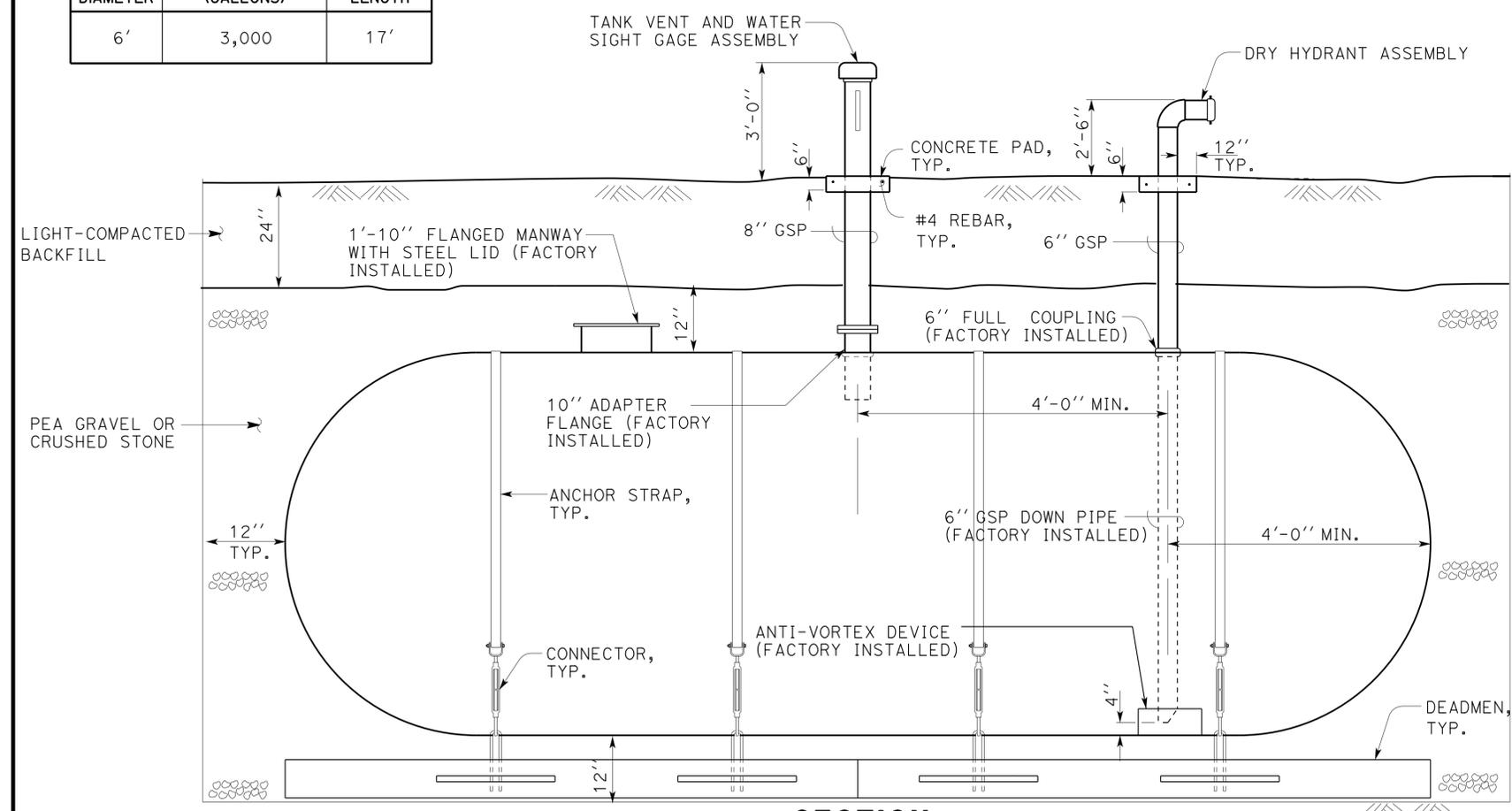
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 Reviewed by: *Polly Parenti*
 POLLY PARENTI
 Approval date: 12-19-12



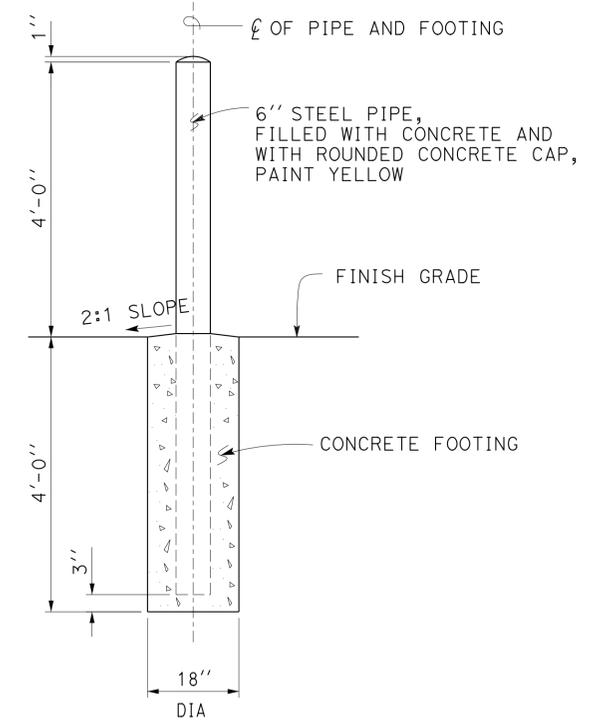
TANK DIAMETER	NOMINAL CAPACITY (GALLONS)	NOMINAL LENGTH
6'	3,000	17'

PLAN
NO SCALE



SECTION
NO SCALE

1 FIRE WATER STORAGE TANK
NO SCALE



2 GUARD POST DETAIL
NO SCALE

- Notes:
- Use pipe sleeve when pipe passes through concrete pad.
 - Anchor straps, connectors, and deadmen to be approved by tank manufacturer for use with tank.
 - Fire water storage tank to comply with NFPA 22 (2003 edition)

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			POST MILE 46.0/47.0		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT 3616 PROJECT NUMBER & PHASE 05000204181	DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET OF
TAEMWW Imperial Rev. 3/12		EA 05-1A6201	REVISION DATES (PRELIMINARY STAGE ONLY) 04/27/12 05/24/12 06/28/12 07/27/12 08/24/12 09/27/12		OF

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