

ADDENDUM NUMBER 2

FOR THE

CITY OF CORCORAN

WATER WELL 5F & 8C

April 18, 2023



OWNER:

**City of Corcoran
832 Whitley Avenue
Corcoran, CA 93212
(559) 992-2151**

PREPARED BY:

**A&M Consulting Engineers
220 N Locust Street
Visalia, CA 93291
(559) 429-4747**

ADDENDUM NUMBER 2

The following additions, deletions, or modifications shall become part of the Contract Documents for the City of Corcoran Water Well 5F & 8C project:

CONTRACTOR QUESTIONS:

Q1: Could you further clarify the electrical scope of work for Water Wells 5F & 8C?

A1: Water Well 5F encompasses all labor and materials as specified in the accompanying electrical plans. The contractor shall acknowledge that alterations to the motor control center will be addressed through a change order.

For Water Well 8C, the bid shall exclude all electrical undertakings. All electrical tasks related to Well 8C will be managed in a change order. No electrical plans have been provided in the plan set.

Q2: Who is responsible for testing?


A2: The city will be providing testing; however, any failed testing will be the responsibility of the contractor at the contractor's own expense.

Q3: Who is responsible for staking?

A3: Per the construction documents, the contractor shall provide this service.

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NOTE: One copy of this Addendum Number 2 shall be signed by the Contractor and must be submitted with the bid as acknowledgment of receipt and acceptance of this Addendum Number 2.

Prepared by: 
Orfil Muniz, P.E.
A&M Consulting Engineers

4-18-2023

Date

Accepted by: _____
Contractor (Signature)

Project Name: Water Well 5F & 8C
 Pre Bid Date: 04/18/2023 @ 9:00 AM
 Bid Date: 05/02/2032 @ 11:00 AM



Public Works Department

Pre-Bid Sign-In

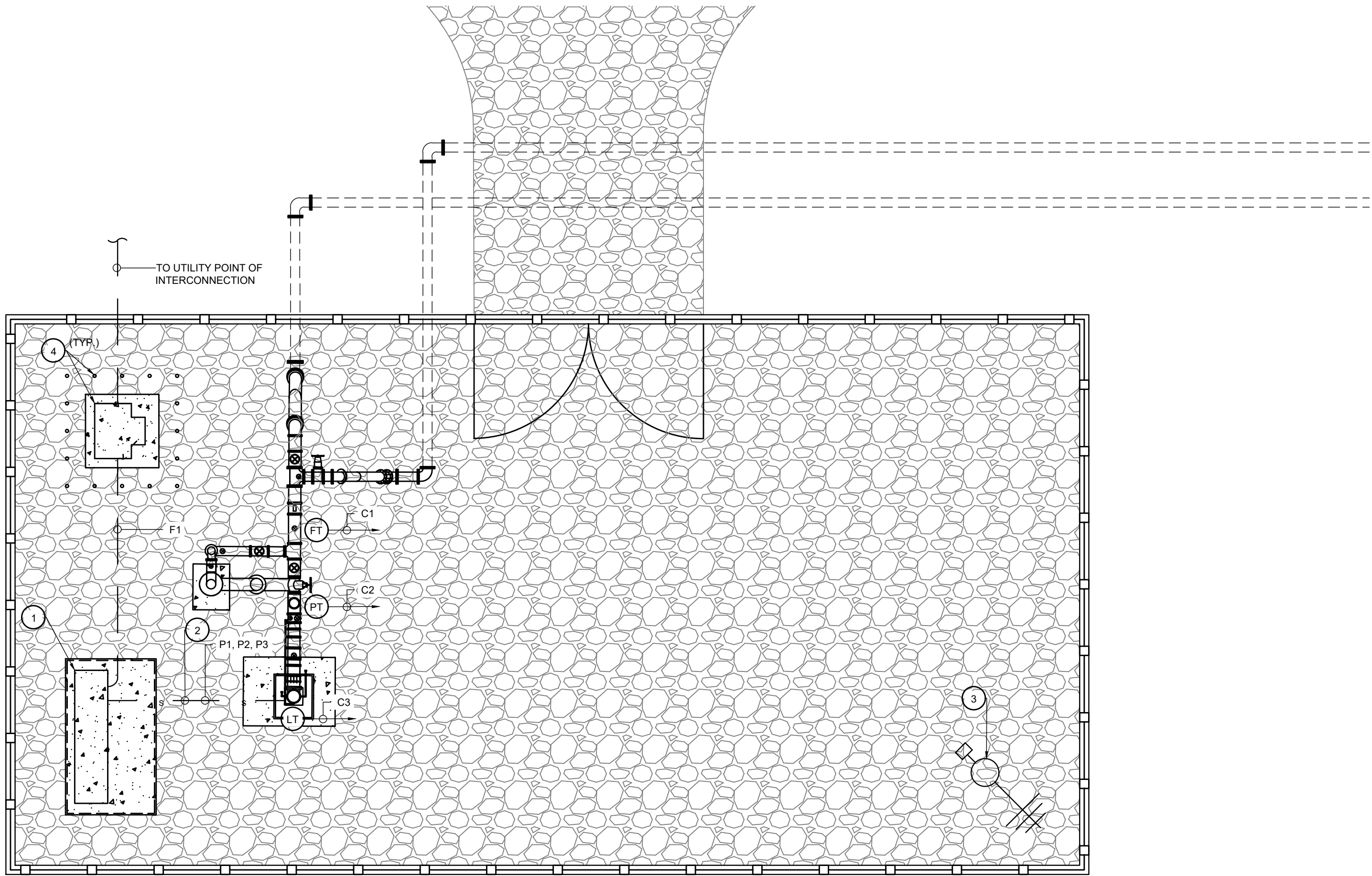
	COMPANY NAME	COMPANY ADDRESS	CONTACT NAME	PHONE NUMBER	EMAIL	FAX
1	Call Home		Marco Robles	(661) 580-7903	marco@chfence.net	
2	United		Johnny White	661 578-8873	Johnny-White@UFSC.US	
3	Steve Donovan Construction	Fresno CA	Tim Donovan	559 255-7603	dovan@construction@gmail.com	
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NOTES

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE FULL SET OF PLANS FOR ANY DISCREPANCIES AND OMISSIONS PRIOR TO THE COMMENCEMENT OF WORK. IF ANY DISCREPANCIES BETWEEN THESE PLANS AND THE FIELD ARE IDENTIFIED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY WORK NOT IN CONFORMANCE WITH THE PLANS OR IN CONFLICT WITH ANY CODE.
- PRIOR TO THE START OF CONSTRUCTION ALL ELECTRICAL POWER SOURCES IN THE VICINITY OF THE ELECTRICAL EQUIPMENT INSTALLATION MUST BE POWERED OFF TO AVOID ANY ELECTRICAL INJURIES
- TO PREVENT DAMAGE TO UTILITY LINES, IT IS NECESSARY TO MANUALLY EXCAVATE ALL UTILITIES IN THE VICINITY OF THE ELECTRICAL EQUIPMENT INSTALLATION
- THE METHODS CONTAINED IN NEC ARTICLE 250 SHALL BE FOLLOWED TO COMPLY WITH GROUNDING AND BONDING OF ELECTRICAL SYSTEMS AND NON-CURRENT CARRYING CONDUCTIVE MATERIALS, ENCLOSURES OR ITEMS FORMING PART OF ANY SUCH EQUIPMENT THAT ENCLOSES OR CARRIES ELECTRICAL CONDUCTOR OR EQUIPMENT THAT IS LIKELY TO BECOME ENERGIZED. NEE NEC 250.4(A)(1) THROUGH (5) FOR FURTHER DESCRIPTION.
- ALL WORK MUST ADHERE TO THE 2017 NATIONAL ELECTRIC CODE AND THE 2019 CALIFORNIA ENERGY CODE.
- THE MINIMUM BURIAL DEPTH REQUIREMENT IN NEC TABLE 300.5 MUST BE MET FOR ALL CONDUITS.
- PER NEC 110.26 "ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED ABOUT ALL ELECTRICAL EQUIPMENT TO PERMIT READY AND SAFE OPERATION AND MAINTENANCE OF SUCH EQUIPMENT"
- ALL ELECTRICAL EQUIPMENT SHALL BE LABELED, LISTED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION
- PER NEC 210.19 (A) INFORMATIONAL NOTE #4, "CONDUCTORS FOR BRANCH CIRCUITS AS DEFINED IN ARTICLE 100, SIZED TO PREVENT A VOLTAGE DROP EXCEEDING 3 % AT THE FARTHEST OUTLET OF POWER, HEATING AND LIGHTING LOADS, OR COMBINATION OF SUCH LOADS, AND WHERE THE MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST OUTLET DOES NOT EXCEED 5%."
- CONDUIT RUNS SHOWN ON THIS PLAN ARE DIAGRAMMATIC ONLY AND THE CONTRACTOR SHALL DETERMINE THE OPTIMAL ROUTING TO THE EQUIPMENT.
- THE CONTRACTOR MUST SUPPLY THE NECESSARY STRUCTURAL SUPPORT AND ALL REQUIRED COMPONENTS FOR ALL EQUIPMENT/DEVICES, INCLUDING BUT NOT LIMITED TO SURFACE RACEWAY, JUNCTION BOXES, ETC.
- AS PER CEC 110.16, ELECTRICAL DISTRIBUTION EQUIPMENT LIKE SWITCHBOARDS, SWITCHGEAR, PANELBOARDS, AND TRANSFER SWITCHES MUST BE LABELED TO CAUTION QUALIFIED INDIVIDUALS ABOUT POTENTIAL ELECTRIC ARC FLASH HAZARDS.
- SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT PER CEC 110.24. FIELD MARKING SHALL INCLUDE THE DATE THE FAULT-CURRENT CALCULATION WAS PERFORMED. FAULT CURRENT CALCULATION LETTER SHALL BE PROVIDED AT TIME OF INSPECTION.

CONDUIT CONSTRUCTION MATERIAL NOTES

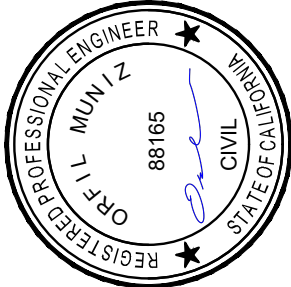
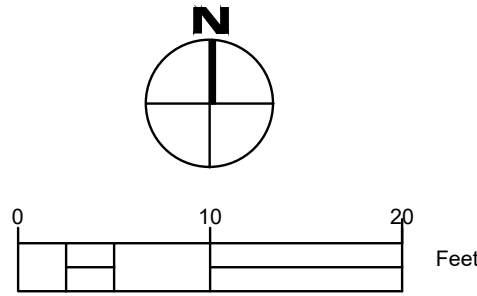
- FOR ALL EXTERIOR AND INTERIOR LOCATIONS ABOVE GRADE OR AS INDICATED ON PLANS, HOT-DIPPED GALVANIZED RIGID STEEL CONDUIT MUST BE USED, WITH ALL RIGID CONDUIT AND FITTINGS BEING THREADED. THE USE OF SET SCREW OR COMPRESSION TYPE CONNECTORS IS NOT ALLOWED. MEYERS HUBS MUST BE USED FOR ALL EXTERIOR PANEL CONNECTIONS.
- FOR ALL UNDERGROUND LOCATIONS AND BELOW THE VAPOR BARRIER OF A SLAB, RIGID PVC NONMETALLIC CONDUIT SCHEDULE 40 MUST BE USED. NO CONDUITS SHALL BE INSTALLED IN A WAY THAT COMPROMISES THE STRUCTURAL INTEGRITY OF FOOTINGS.
- IN CHEMICAL BUILDINGS AND CORROSIVE ENVIRONMENTS, RIGID PVC NONMETALLIC CONDUIT SCHEDULE 80 MUST BE USED FOR ALL INTERIOR LOCATIONS ABOVE GRADE.
- FOR ALL EXPOSED CONDUITS THROUGH CONCRETE SLABS (A MINIMUM OF 12" ABOVE AND BELOW THE SLAB) AND ALL EXTERIOR LOCATIONS IN CORROSIVE ATMOSPHERES, PVC COATED GALVANIZED RIGID STEEL CONDUIT WITH A MINIMUM 40 MIL FACTORY COATING MUST BE USED. THE INSTALLATION MUST FOLLOW THE MANUFACTURERS SPECIFIED TOOLS AND PROCEDURES.
- FOR CONNECTIONS TO MOTORS OR SENSORS, ONLY LIQUID-TIGHT FLEXIBLE METAL CONDUIT (UV RESISTANT) WITH A MAXIMUM LENGTH OF 30" SHOULD BE USED.
- THE MINIMUM SIZE FOR JUNCTION BOXES MUST ADHERE TO NEC STANDARDS. EXPOSED LOCATION 1 AND 2 GANG JUNCTION BOXES MUST BE CAST IRON DEVICE BOXES OF THE FS/FD TYPE THAT ARE SUITABLE FOR WET LOCATIONS. FOR EXTERIOR EXPOSED LOCATIONS THAT ARE LARGER IN SIZE, CONTINUOUS HINGE TYPE 4 MUST BE USED. IN CORROSIVE LOCATIONS, CONTINUOUS HINGE TYPE 4X STAINLESS STEEL MUST BE USED.
- EXOTHERMIC CADWELD (FOR ALL 600 AMP OR LARGER SERVICE) OR BURNDY HYDRAULIC COMPRESSION CONNECTORS MUST BE USED FOR GROUND CONNECTIONS, WHILE CRIMP LUG TYPE WITH BOLTED CONNECTION TO GROUND BUS MUST BE USED FOR GROUND BUS CONNECTIONS.



CONDUIT SCHEDULE					
FEEDER	FROM	TO	CONDUCTORS ALL THHN/THWN OR EQUAL UNLESS OTHERWISE NOTED	CONDUIT SIZE AND TYPE	COMMENTS
F1	PG&E TRANSFORMER	MCC	PER PG&E	PER PG&E	REFER TO UTILITY DRAWINGS
P1	MCC	PUMP MOTOR	(3) 350 MCM, (1) #2 GRN GND (L1/L2/L3/GND) PER CONDUIT	(2) 3" EMT	(2) PARALLEL RUNS OF CONDUCTORS
P2	MCC	PUMP HEATER	(2) #14, (1) #14 GRN GND	3/4" PVC	
P3	MCC	PUMP LUBE SOLENOID	(2) #12, (1) #12 GRN GND	3/4" PVC	
P4	LP	PLC	(2) #10, (1) #10 GRN GND	3/4" PVC	PLC POWER
P5	LP	LIGHT POLE	(2) #10, (1) #10 GRN GND	3/4" PVC	OUTSIDE FLOOD LIGHTING - ROUTED THROUGH TIMECLOCK
C1	PLC	FLOW TRANSMITTER	(1) #18 TWISTED SHIELD PAIR	3/4" PVC	FLOW 4-20MW
C2	PLC	PRESSURE SWITCH	(2) #14, (1) #14 GRN GND	3/4" PVC	PUMP PRESSURE SWITCH HI-LO
C3	PLC	WELL LEVEL TRANSMITTER	(1) #18 TWISTED SHIELD PAIR	3/4" PVC	WELL LEVEL 4-20MA
T1	RADIO	ANTENNA	(1) COM CABLE	1" PVC	RADIO ANTENNA
T2	TELECOM BOARD	TELECOM TIE-IN	(1) PULLROPE	2" PVC	

KEY NOTES

- PROPOSED SERVICE METER AND MCC. SEE DETAIL SINGLE LINE DIAGRAM AND MCC ELEVATION DETAIL ON SHEET 2 FOR REFERENCE
- NOT USED
- PROPOSED RADIO ANTENNA TOWER. SEE POLE MOUNTED FIXTURE AND ANTENNA DETAIL ON SHEET 4. CONTRACTOR TO COORDINATE WITH CITY FOR CONNECTION TO CENTRAL STATION.
- PROPOSED UTILITY TRANSFORMER AND BOLLARDS. SEE UTILITY DRAWINGS FOR FINAL INSTALLATION DETAILS, INCOMING CONDUIT AND CONDUCTOR SIZING



ENGINEERING PLANS FOR:
WATER WELL 5F IMPROVEMENTS
SHEET TITLE:
ELECTRICAL SITE PLAN

REVISIONS

NO.

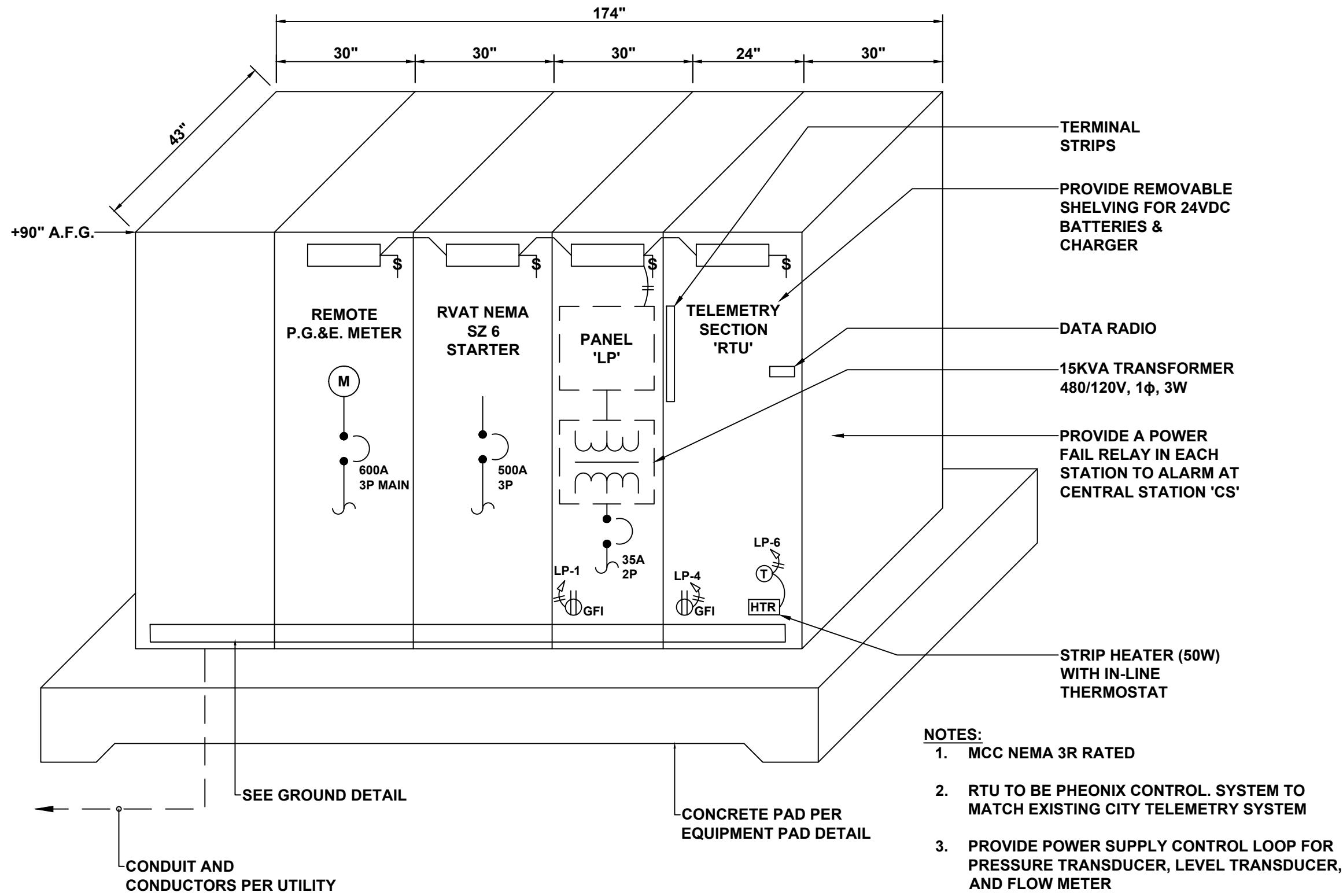
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JOB NO: 221_051
QA/QC: JA
FILE: 221_051_EEDWG
DATE: 3/23/2023



SHEET NO.

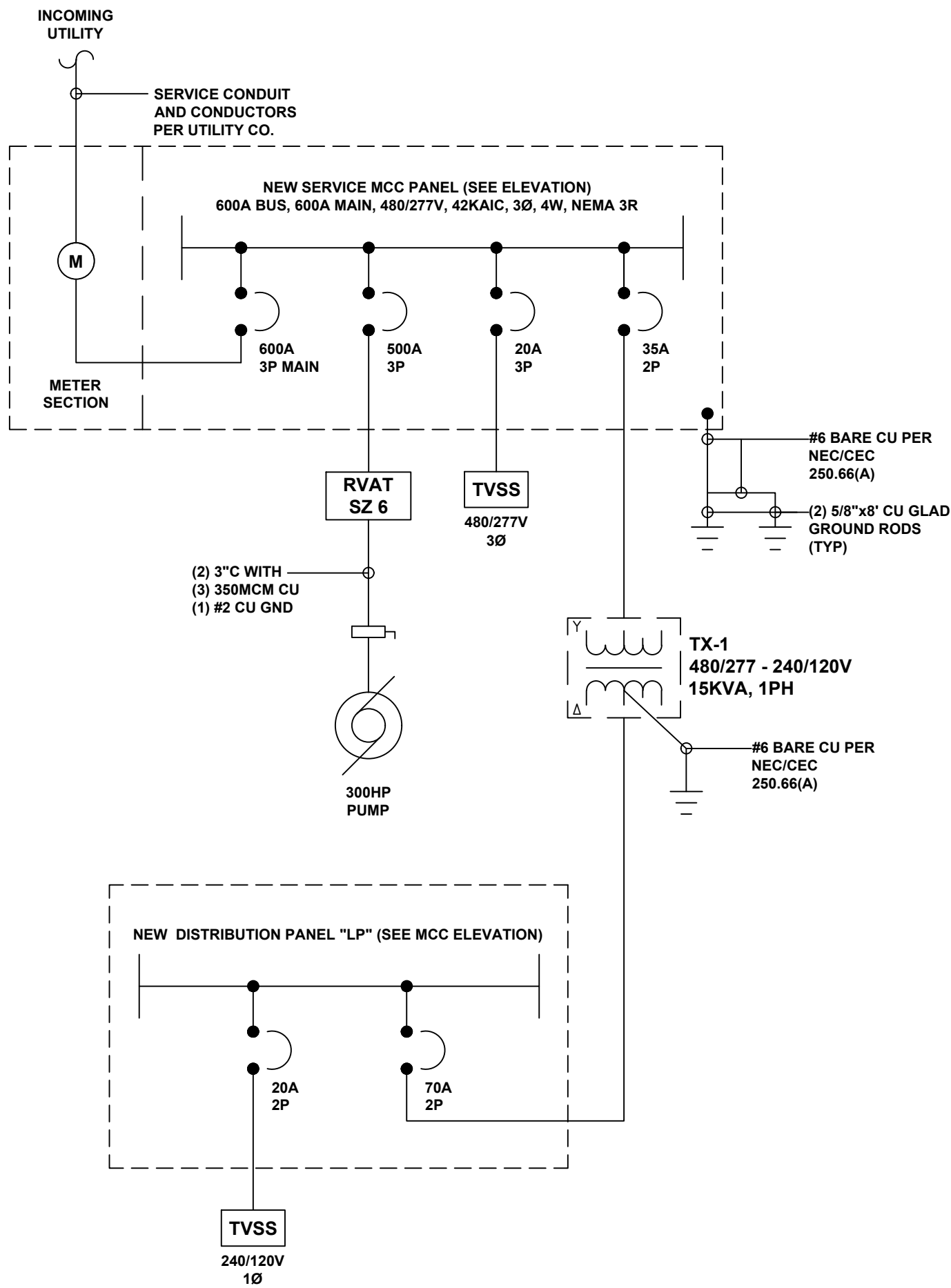
1

OF 7



MCC ELEVATION

NOT TO SCALE



SINGLE LINE DIAGRAM

NOT TO SCALE

Site Name:		Corcoran Well					MANUFACTURER:		SQUARE D OR EQUAL					WIRE:		3	
Panel Name:		P1		Volts AC				PHASE:		1							
VOLTAGE:		240 120						BUS RATING:		100 AMPS							
MAIN BREAKER:		100 AMPS						KAIC:		10							
MOUNT:		Surface															
ENCLOSURE TYPE:		NEMA 3R															
PANEL STATUS:		New															
CKT	LOAD DESCRIPTION	BREAKER AMPS	BREAKER POLES	BREAKER STATUS	SERVICE LOAD VA	Demand Factor	USAGE FACTOR	PHASE A VA	PHASE B VA	USAGE FACTOR	Demand Factor	SERVICE LOAD VA	BREAKER STATUS	BREAKER POLES	BREAKER AMPS	LOAD DESCRIPTION	CKT
1	GFI OUTLETS	20	1	NEW	180	1.00	1.00	3180		1.00	1.00	3000	NEW	2	30	JACKET WATER HEATER	2
3	LIGHTING	20	1	NEW	600	1.00	1.00		3600	1.00	1.00	3000					4
5	MOTOR WINDING HEATER	20	1	NEW	600	1.00	1.00	1680		1.00	1.00	1080	NEW	2	20	SPACE HEATER	6
7	PLC & RADIO	20	1	NEW	1200	1.00	1.00		1920	1.00	1.00	720	NEW	2	20	BATTERY CHARGER	8
9	WELL WATCHER	20	1	NEW	120	1.00	1.00	120		1.00	1.00		—	—	—	—	10
11	—	—	—	—		1.00	1.00		0	1.00	1.00		—	—	—	—	12
13	—	—	—	—		1.00	1.00	0		1.00	1.00		—	—	—	—	14
15	—	—	—	—		1.00	1.00		0	1.00	1.00		—	—	—	—	16
17	—	—	—	—		1.00	1.00	0		1.00	1.00		—	—	—	—	18
19	—	—	—	—		1.00	1.00		0	1.00	1.00		—	—	—	—	20
21	—	—	—	—		1.00	1.00	0		1.00	1.00		—	—	—	—	22
23	—	—	—	—		1.00	1.00		0	1.00	1.00		—	—	—	—	24
25	—	—	—	—		1.00	1.00	0		1.00	1.00		—	—	—	—	26
27	—	—	—	—		1.00	1.00		0	1.00	1.00		—	—	—	—	28
29	—	—	—	—		1.00	1.00		0	1.00	1.00		—	—	—	—	30
								PHASE A	PHASE B								
								4980	5520 VA								
								TOTAL	KVA	10.50							
									AMPS	43.75	≤ 80% OF MAIN BREAKER						

PANEL SCHEDULE

NOT TO SCALE

ITEM	NAME	ID	TIMING	TYPE	HP	FLA	VOLTAGE	STARTER TYPE	VFD	HOA	I-LOCK	POWER ON	RUNNING	FAIL	ETM
1	WELL PUMP		NEW	WP1	300	368	460	SSRV		Y	HP		Y	Y	Y

PUMP STATION MOTOR & LOAD LIST FOR WELL

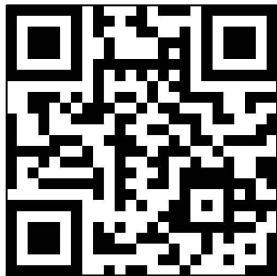
NOT TO SCALE

OUTDOOR PANEL NOTES:

- ALL PANELS EXPOSED TO WEATHER SHALL BE MINIMUM NEMA 3R RATED.
- PANEL FINISH TO MEET UL 1332 CODE FOR COATING OF STEEL ENCLOSURES FOR OUTDOOR EQUIPMENT AND ASTM B117 FOR CORROSION RESISTANCE.
- FINAL FINISH PAINT COAT TO BE WHITE.
- ALL SECTIONS TO INCLUDE THERMOSTATICALLY CONTROLLED SPACE HEATER TO PREVENT CONDENSATION.
- ALL SECTIONS TO INCLUDE AN LED STRIP LIGHT FOR MAINTENANCE LIGHTING CONTROLLED BY DOOR SWITCH.
- ALL COOLING COMPONENTS TO HAVE 100% REDUNDANT CAPACITY.
- INSTALLATION TO INCLUDE AN OVERHANGING TOP ALUMINUM SUNSHIELD FOR ANY PANELS WITH ELECTRONIC COMPONENTS.
- ALL VENTS AND OPENINGS TO INCLUDE RODENT AND INSECT SCREENING.
- ENCLOSURES TO INCLUDE DUST GASKETING.
- DOORS TO BE 3 POINT LATCHING EXTERIOR WITH NO EXPOSED CONTROLS ON THE OUTER DOOR AND PROVISIONS FOR PAD LOCK.

NOTES

- ALL ELECTRICAL EQUIPMENT SHALL BE LABELED, LISTED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION.
- PER NEC 210.19 (A) INFORMATIONAL NOTE #4, "CONDUCTORS FOR BRANCH CIRCUITS AS DEFINED IN ARTICLE 100, SIZED TO PREVENT A VOLTAGE DROP EXCEEDING 3 PERCENT AT THE FARTHEST OUTLET OF POWER, HEATING, AND LIGHTING LOADS, OR COMBINATION OF SUCH LOADS, AND WHERE THE MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST OUTLET DOES NOT EXCEED 5%."
- THE METHODS CONTAINED IN CEC/NEC ARTICLE 250 SHALL BE FOLLOWED TO COMPLY WITH GROUNDING AND BONDING OF ELECTRICAL SYSTEMS AND NON-CURRENT CARRYING CONDUCTIVE MATERIALS, ENCLOSURES, OR ITEMS FORMING PART OF ANY SUCH EQUIPMENT THAT ENCLOSES OR CARRIES ELECTRICAL CONDUCTOR OR EQUIPMENT THAT IS LIKELY TO BECOME ENERGIZED. SEE CEC/NEC 250.4(A)(1) THROUGH (5) FOR FURTHER DESCRIPTION.
- WHERE TWO OR MORE GROUND RODS ARE TO BE INSTALLED, THE MINIMUM SEPARATION SHALL BE 6' PER CEC/NEC 250.53 (A)(2), AND (3) RESISTANCE OF ELECTRODES.
- ALL ELECTRICAL EQUIPMENT SHALL BE LISTED FOR TERMINATION OF ELECTRICAL CONDUCTORS RATED 75°C OR HIGHER.
- ELECTRICAL DISTRIBUTION EQUIPMENT, SUCH AS SWITCHBOARDS, SWITCHGEAR, PANELBOARDS, AND TRANSFER SWITCHES, SHALL BE MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS PER CEC 110.16
- SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT PER CEC 110.24. FIELD MARKING SHALL INCLUDE THE DATE THE FAULT-CURRENT CALCULATION WAS PERFORMED. FAULT CURRENT CALCULATION LETTER SHALL BE PROVIDED AT TIME OF INSPECTION.
- THE CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANY FOR THE INSTALLATION AND COMMISSIONING OF THE NEW ELECTRICAL SERVICE. CONTRACTOR SHALL VERIFY AIC RATING OF SERVICE EQUIPMENT MEETS OR EXCEEDS THE AVAILABLE FAULT CURRENT FROM THE UTILITY COMPANY PRIOR TO ORDERING SERVICE EQUIPMENT.
- SIZE MOTOR STARTER PER 300HP WITH OVERLOAD PER 250HP.



SHEET NO.

2

OF 6

ENGINEERING PLANS FOR:

WATER WELL 5F IMPROVEMENTS

SHEET TITLE:

SLD AND ELEVATIONS

REVISIONS

NO.

SCALE: AS NOTED

JOB NO: 221-0043

QA/QC: SK

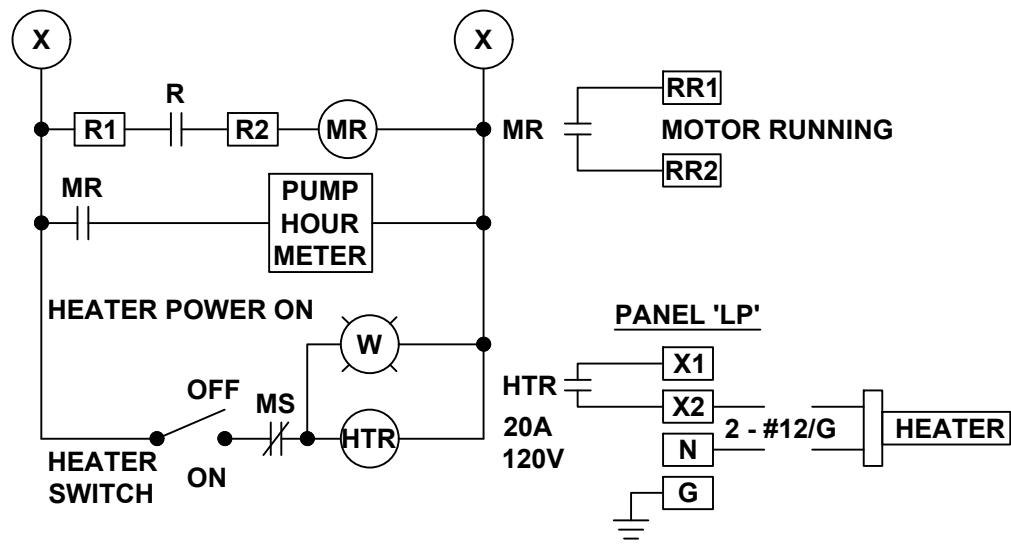
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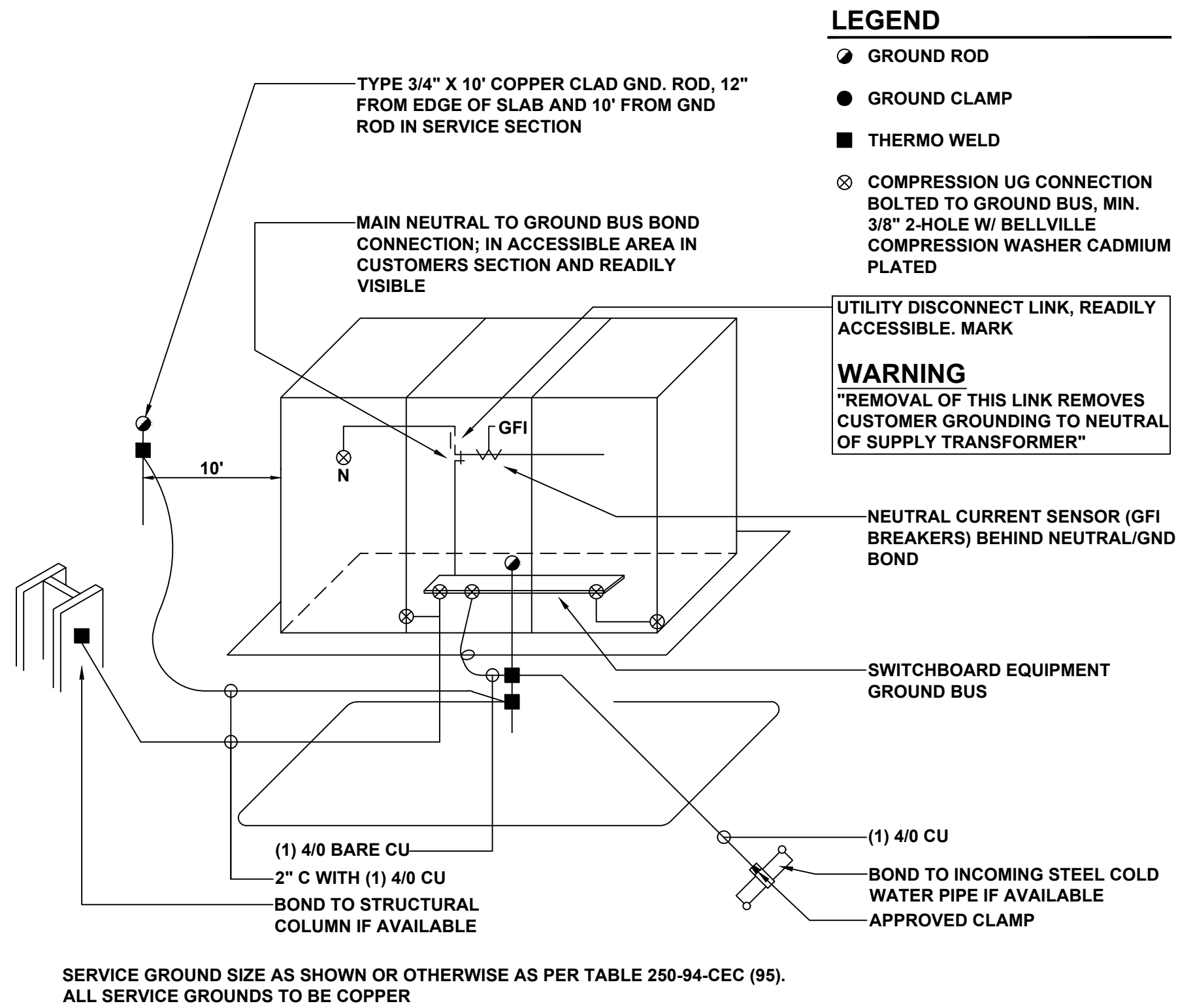
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AHJ SUBMITTAL



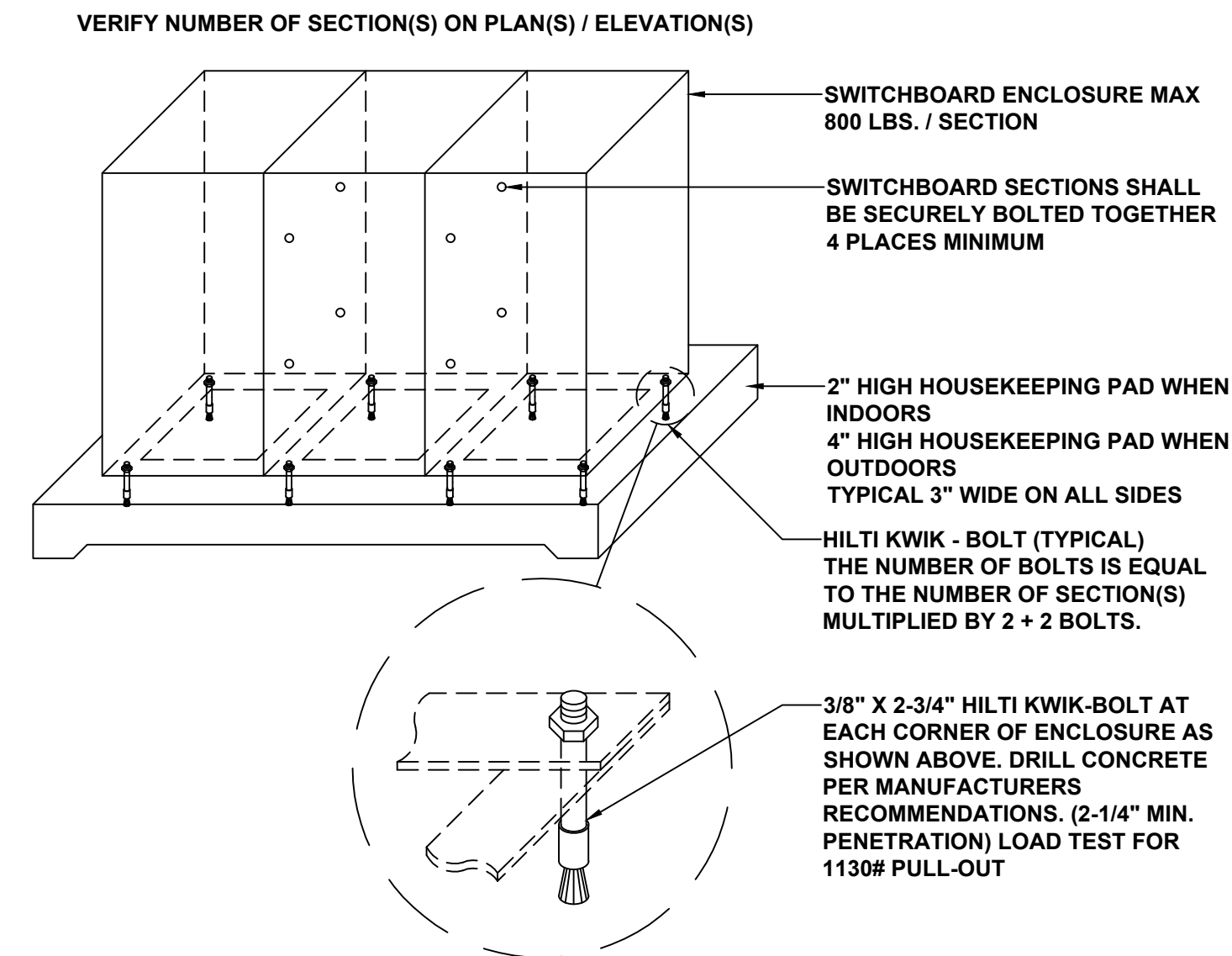
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- The diagram illustrates the RS485 connection between the pump control unit and the driver interface. On the left, a list of pump control signals is shown: START PUMP, STOP PUMP, PUMP STATUS, KW DEM, KW, HRS AMPS/HR, VOLTS RUN, TIME PUMP, READY PUMP, FAIL HIGH, and PRESSURE. These signals are grouped by a bracket and labeled 'PUMP KW, DEMAND'. In the center, a list of driver interface signals is shown: KW, HOUR, AMPS/HR, VOLTS, and RUN TIME. These signals are grouped by a bracket and labeled 'PUMP KW, DEMAND'. An RS485 connection line, represented by a double line with a loop, connects the pump control unit to the driver interface. The connection is labeled 'RS485' and 'A1', 'A2', and 'G'.





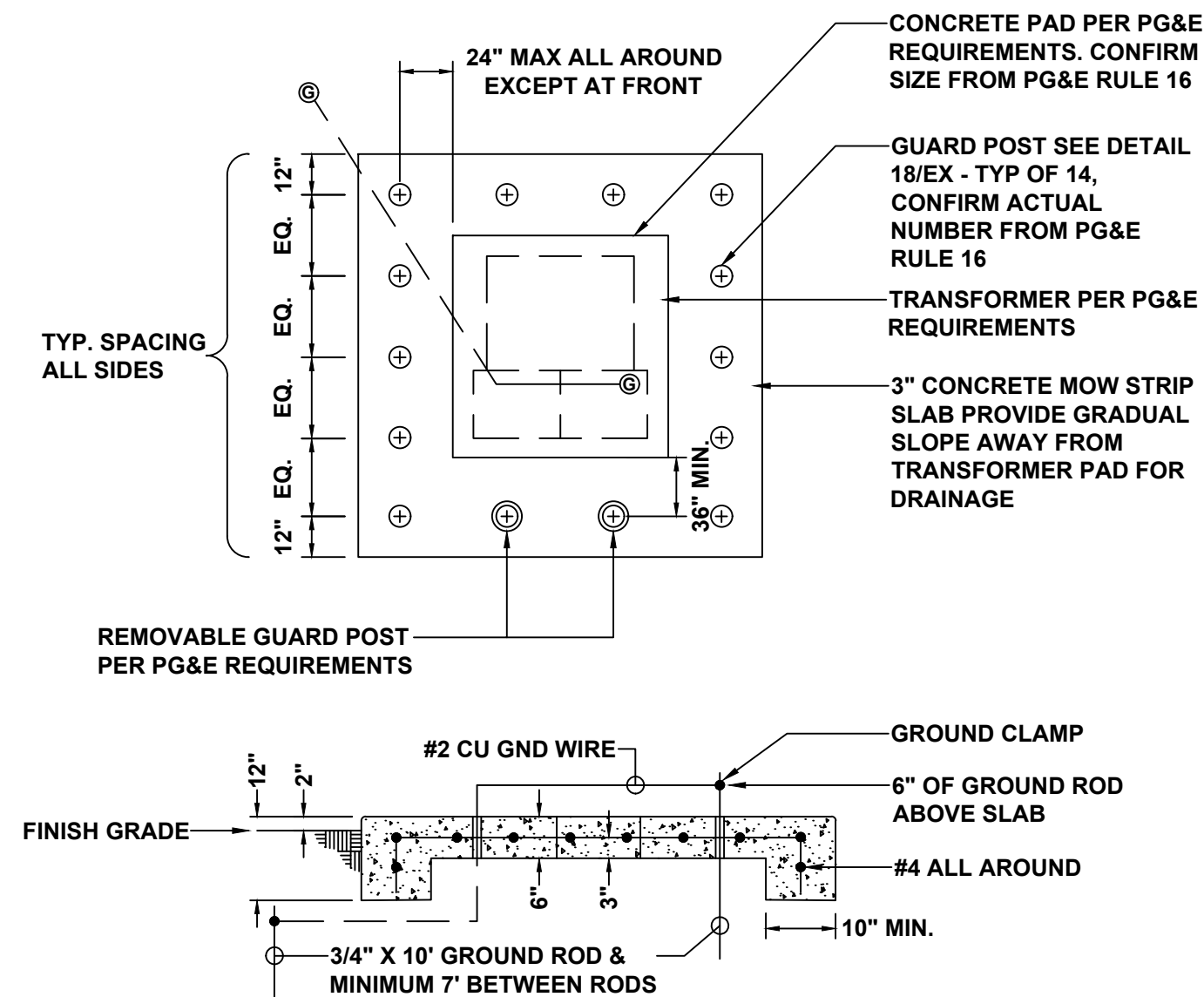
SWITCHBOARD SERVICE GROUND

NOT TO SCALE



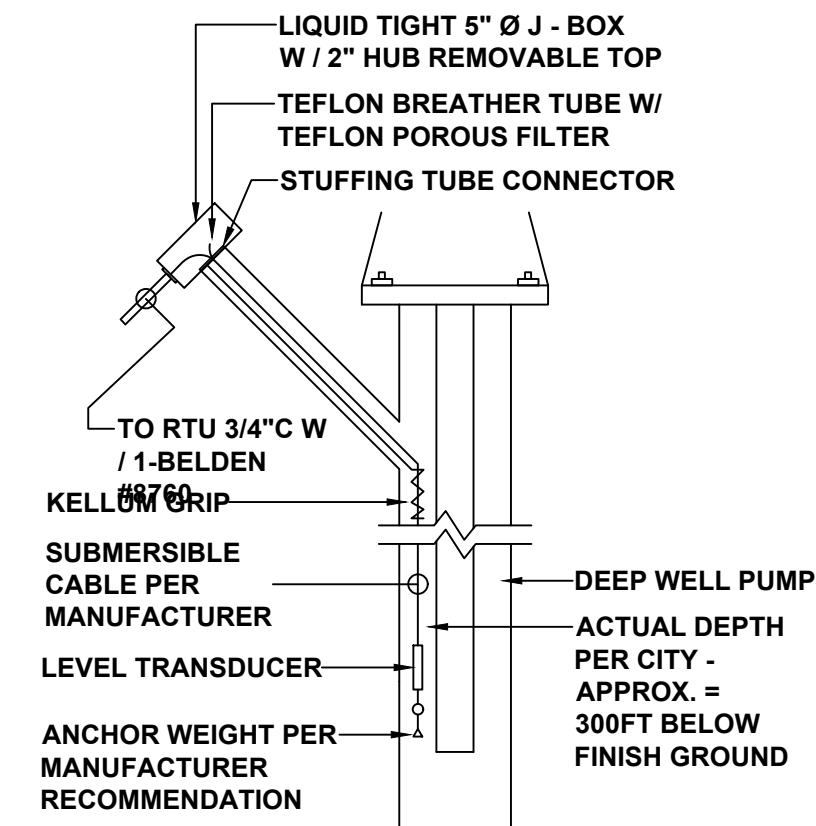
SWITCHBOARD MOUNTING

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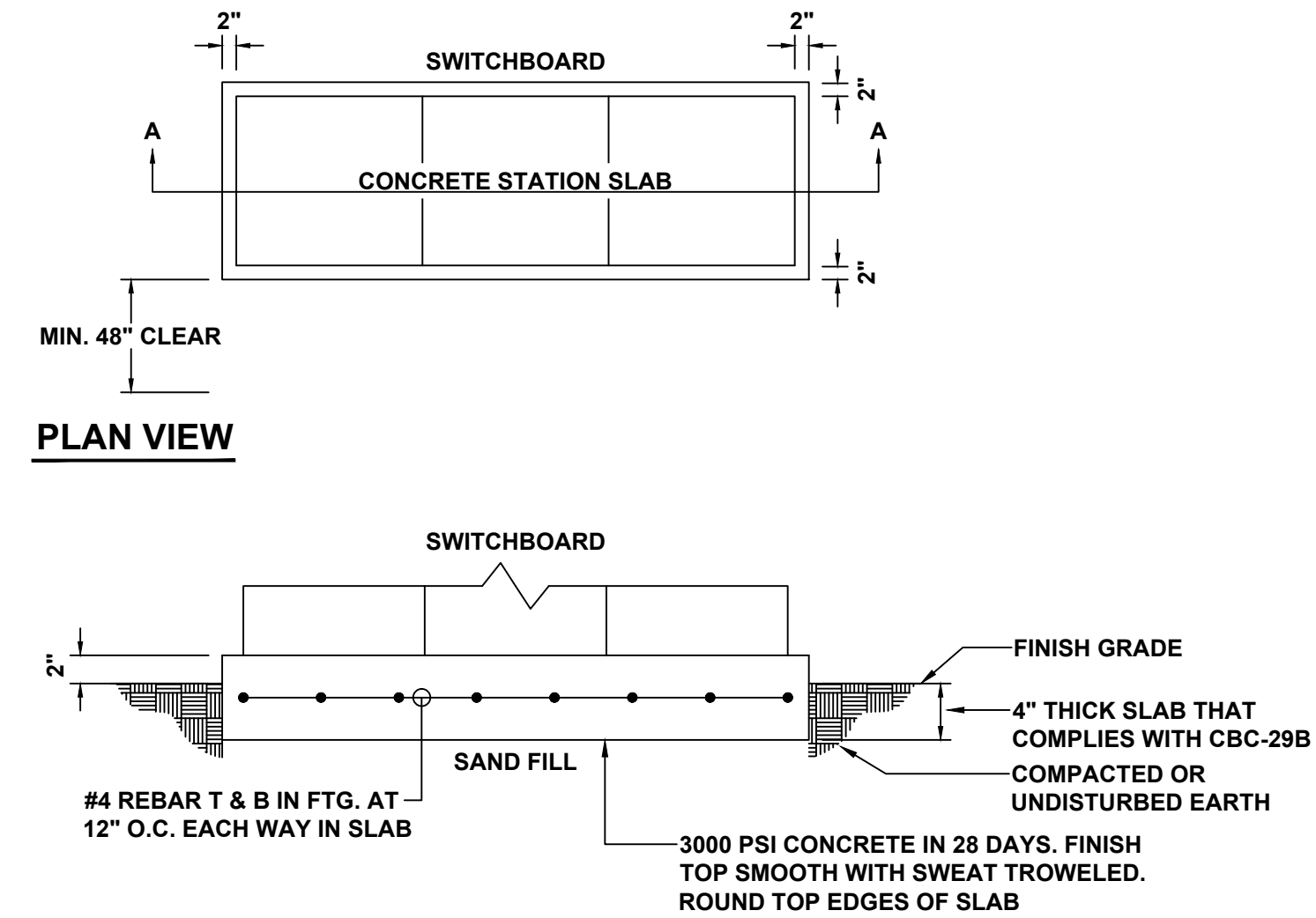
PG&E TRANSFORMER PAD INSTALLATION

NOT TO SCALE



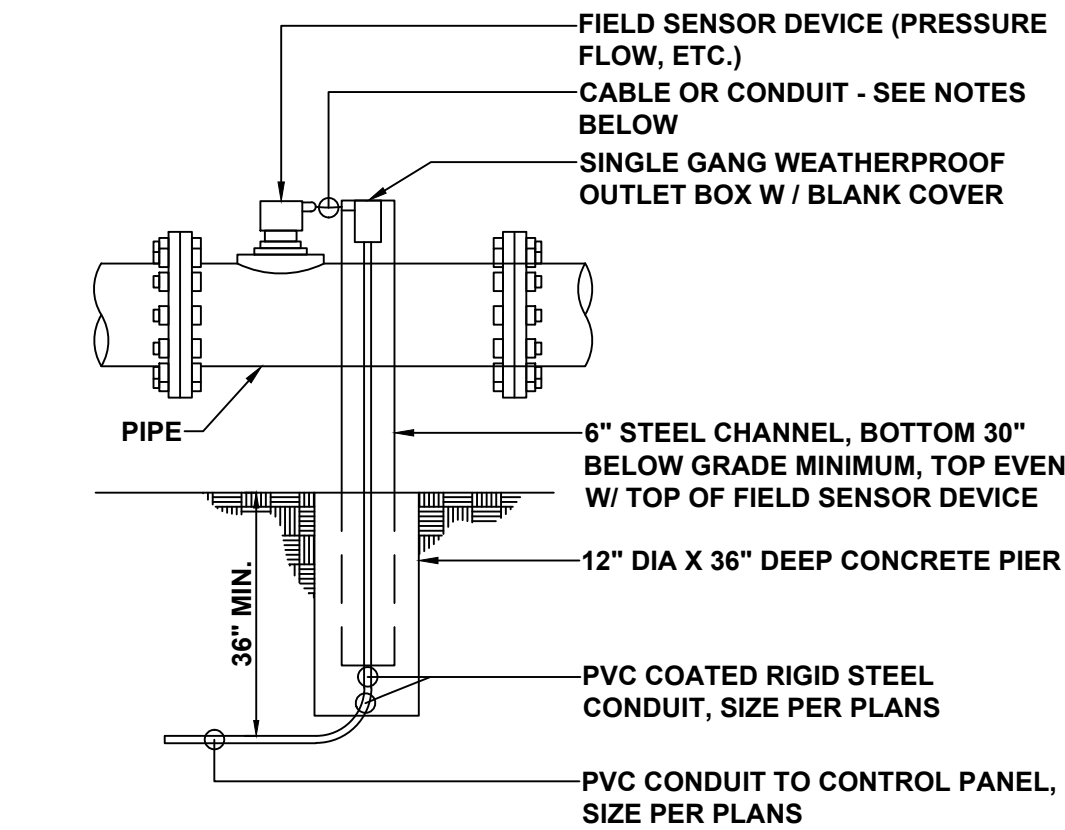
WELL LEVEL TRANSDUCER

NOT TO SCALE



SWITCHBOARD STATION SLAB

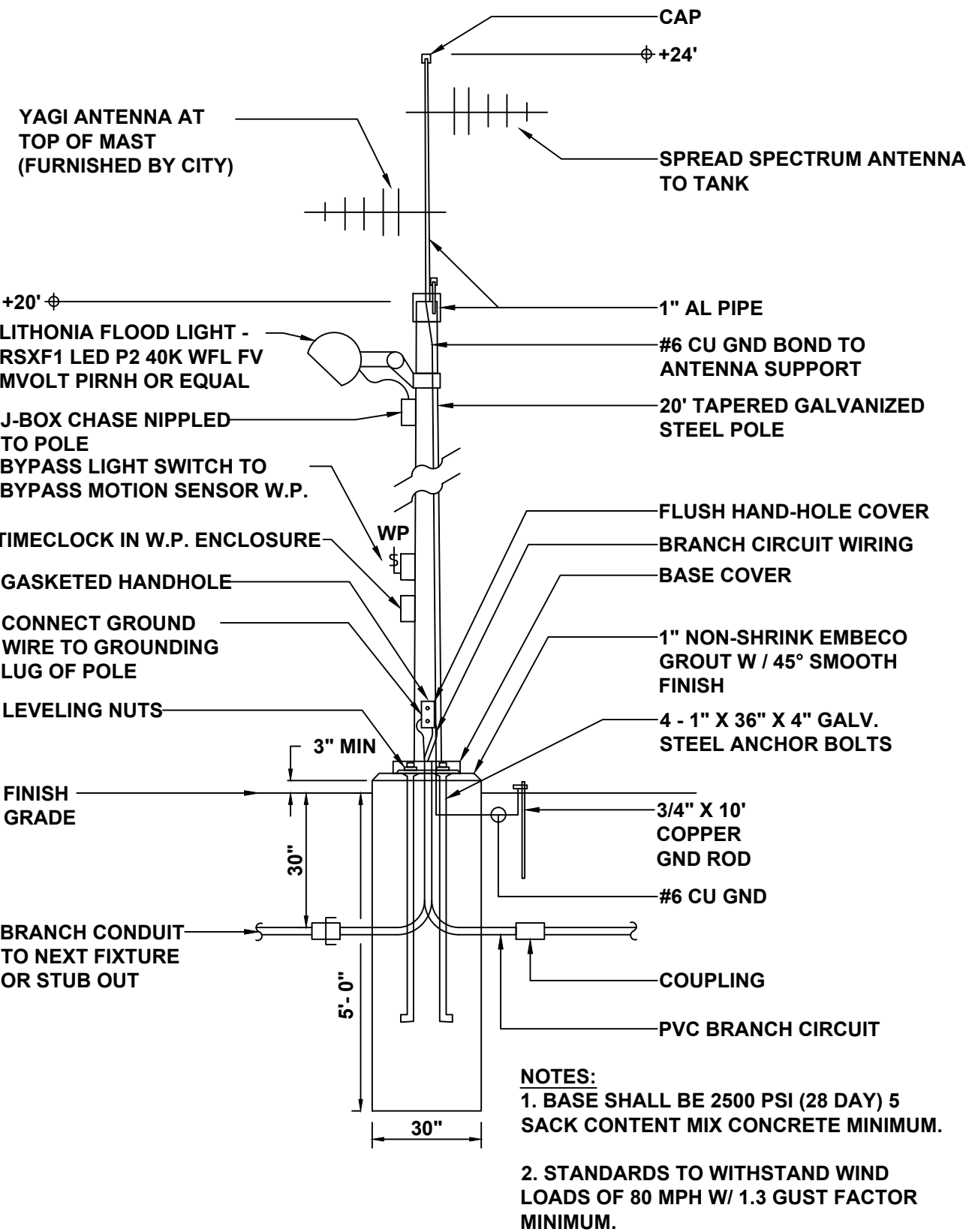
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NOTES:
1. IF FIELD SENSOR DEVICE IS FURNISHED W / CONDUIT CONNECTION PROVISIONS, CONNECT LIQUDTIGHT FLEXIBLE CONDUIT, SIZE DETERMINED BY FIELD.
2. IF FIELD SENSOR DEVICE IS EQUIPPED ONLY W / LIQUDTIGHT CABLE, RUB CABLE INTO WEATHERPROOF OUTLET BOX THROUGH LIQUDTIGHT CABLE CONNECTOR

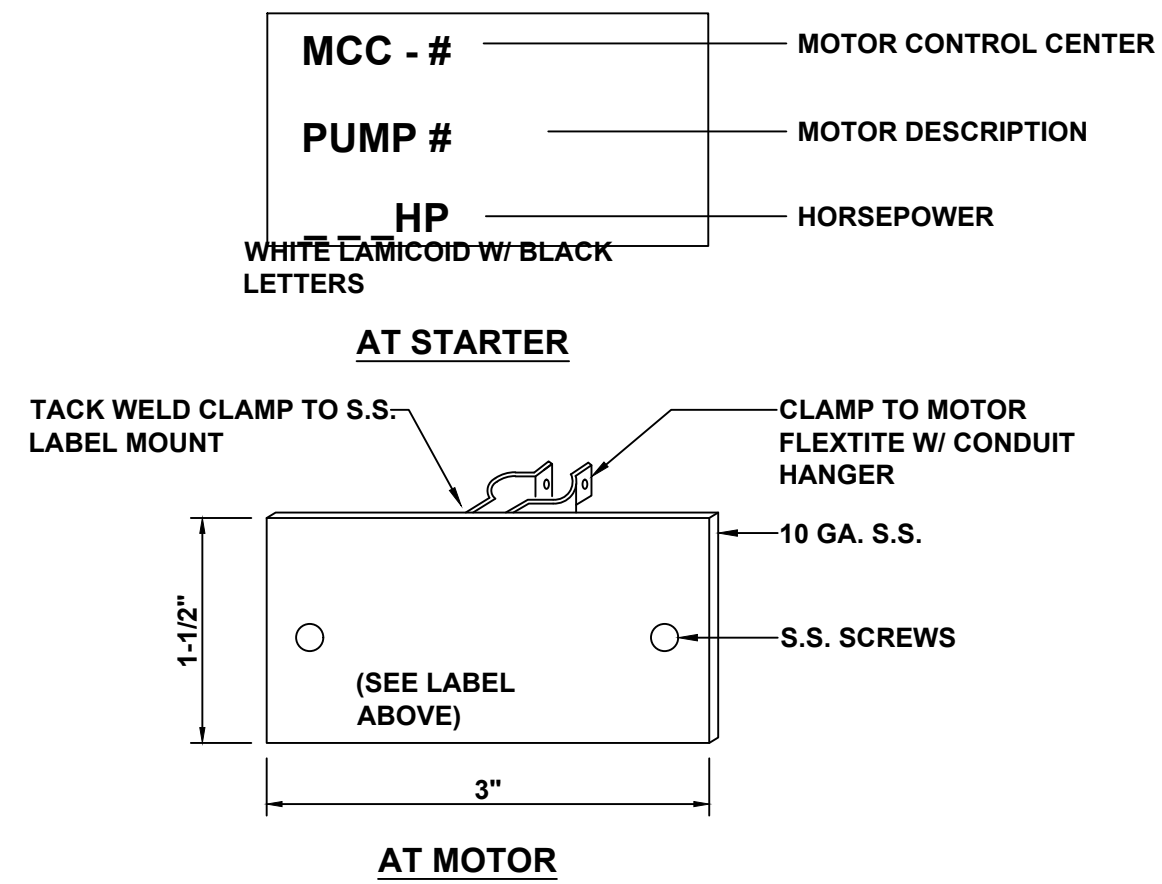
FIELD CONTROL DEVICE CONNECTION

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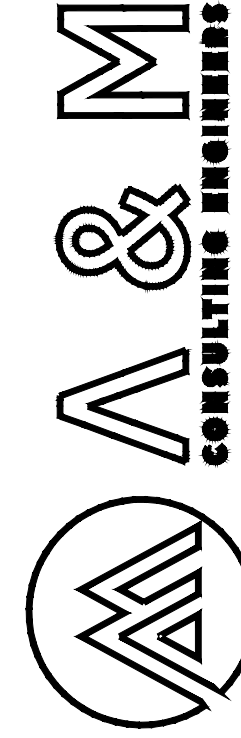
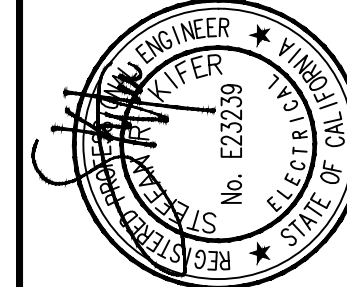
POLE MOUNTED FIXTURE & ANTENNA

NOT TO SCALE



MOTOR LABELING SPECIFICATION

NOT TO SCALE



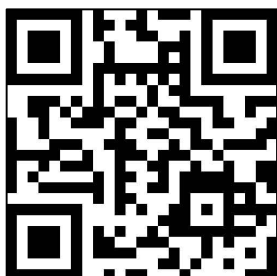
ENGINEERING PLANS FOR:
WATER WELL 5F IMPROVEMENTS

SHEET TITLE:
DETAILS

REVISIONS

NO.

SCALE: AS NOTED
JOB NO: 221-0043
QA/QC: SK
FILE: 3/2/2022
DATE:



SHEET NO.

4

OF 6



AHJ SUBMITTAL

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E (Created 01/20)

CERTIFICATE OF COMPLIANCE

Project Name: Corcoran Well

Project Address: S/W Corner of Nevada and 5th, Corcoran, CA 93230

Report Page: Page 1 of 5

Date Prepared: 03/01/22

CALIFORNIA ENERGY COMMISSION

NRCC-ELC-E

A. GENERAL INFORMATION

01 Project Location (city) Corcoran

02 Occupancy Types Within Project:

Office Retail Warehouse Hotel/ Motel School Support Areas

Parking Garage High-Rise Residential Relocatable Healthcare Facilities Other (Write In): AG Field

B. PROJECT SCOPE

Table Instructions: Include any electrical service systems that are within the scope of the permit application.

01 02 03 04 05 06

Electrical Service Designation/ Description Scope of Work¹ Rating (kVA) Utility Provided Metering System Exception to §130.5(a)² System subject to CA Elec Code Article §17 Exception to §130.5(a)&(b) Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections §130.3, §130.1 and §130.3 and compliance documents NRCC-MCH, NRCC-LTI and NRCC-LTS will indicate when demand response controls are required.

MCC New electrical service equipment & meter 498.8 ☒ ☐

¹ FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c), no other requirements from 130.5 are required.
² Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

C. COMPLIANCE RESULTS

Table Instructions: If this table says "DOES NOT COMPLY" refer to Table D, for guidance and review the Table that indicates "No".

01 02 03 04 05

Service Electrical Metering §130.5(a) AND Separation for Monitoring §130.5(b) AND Voltage Drop §130.5(c) AND Controlled Receptacles §130.5(d) Compliance Results

(See Table F) (See Table G) (See Table H) (See Table I)

AND Yes AND Yes AND Yes COMPLIES with Exceptional Conditions

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> January 2020

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E (Created 01/20)

CERTIFICATE OF COMPLIANCE

Project Name: Corcoran Well

Project Address: S/W Corner of Nevada and 5th, Corcoran, CA 93230

Report Page: Page 4 of 5

Date Prepared: 03/01/22

CALIFORNIA ENERGY COMMISSION

NRCC-ELC-E

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to electrical power distribution requirements.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> January 2020

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E (Created 01/20)

CERTIFICATE OF COMPLIANCE

Project Name: Corcoran Well

Project Address: S/W Corner of Nevada and 5th, Corcoran, CA 93230

Report Page: Page 2 of 5

Date Prepared: 03/01/22

CALIFORNIA ENERGY COMMISSION

NRCC-ELC-E

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Table B indicates the project is exempt from §130.5(a) Service Electrical Metering requirements because the utility company has provided the project a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.
Table H, indicates voltage drop calculations will be provided by the contractor.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. SERVICE ELECTRICAL METERING

This Section Does Not Apply

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

Table Instructions: Complete this table for entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(b). Using the dropdown choices in column 01, indicate the load types included for each service. Any load types that are not included in the service do not need to be shown.

Electrical Service Designation/Description: MCC

01 02 03 04 05

Load Type per Table 130.5-B¹ Minimum Required Separation of Load per Table 130.5-B Compliance Method² Location of Requirements in Construction Documents Field Inspector

Domestic and service water systems All loads in aggregate Method 2 E Sheet 2 ☐ ☐

¹ FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.
² Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type
Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type
Method 3: Branch circuits serve load types individually & provisions for adding future branch circuit monitoring
Method 4: Complete metering system measures and reports loads by type
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

H. VOLTAGE DROP

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> January 2020

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E (Created 01/20)

CERTIFICATE OF COMPLIANCE

Project Name: Corcoran Well

Project Address: S/W Corner of Nevada and 5th, Corcoran, CA 93230

Report Page: Page 5 of 5

Date Prepared: 03/01/22

CALIFORNIA ENERGY COMMISSION

NRCC-ELC-E

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Steffan Kifer Documentation Author Signature:

Company: Refik Electrical Engineers Signature Date: 03-01-22

Address: 3032 N. Shelly Avenue CEA/ HERS Certification Identification (if applicable):

City/State/Zip: Fresno/CA/93727 Phone: 559-242-6477

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Steffan Kifer Responsible Designer Signature:

Company: Refik Electrical Engineers Date Signed: 03-01-22

Address: 3032 N. Shelly Avenue License: PE# E23239

City/State/Zip: Fresno/CA/93727 Phone: 559-242-6477

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> January 2020

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E (Created 01/20)

CERTIFICATE OF COMPLIANCE

Project Name: Corcoran Well

Project Address: S/W Corner of Nevada and 5th, Corcoran, CA 93230

Report Page: Page 3 of 5

Date Prepared: 03/01/22

CALIFORNIA ENERGY COMMISSION

NRCC-ELC-E

Table Instructions: Please complete this table for entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with §130.5(c). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)(2)(ii).

01 02 03 04 05

Electrical Service Designation/ Description Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method Location of Voltage Drop Calculations¹ Sheet Number for Voltage Drop Calculations in Construction Documents Field Inspector

MCC ☒ Voltage drop < 5% ☐ Permitted by CA Elec Code (Exception to §130.5(c))¹ Contractor Responsible ☐ ☐

¹ NOTES: If "Permitted by CA Elec Code" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.

¹ FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

Table Instructions: Please complete this table for entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(d). Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

01 02 03 04 05 06

Room Name or Description Location/ Type of Controlled Receptacles Shut-Off Controls Permanent Durable Marking Will be Used Location of Requirements in Construction Documents Field Inspector

NA: No applicable space types on this service ☐ ☐ Add Row Remove Last

¹ If "Other" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.

J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www2.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/

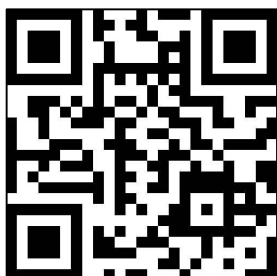
YES NO Form/Title Field Inspector

☒ ☐ NRCC-ELC-01-E - Must be submitted for all buildings. ☐ ☐

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> January 2020



3032 N. SHELLY AVE
FRESNO, CA 93727
559.242.6477



SHEET NO.

5

OF 6

SCALE: AS NOTED
JOB NO: 221-0043
QA/QC: SK
FILE: DATE: 3/2/2022

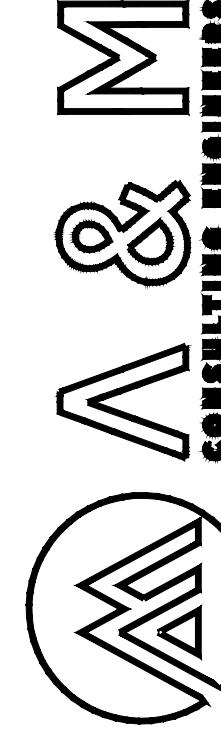
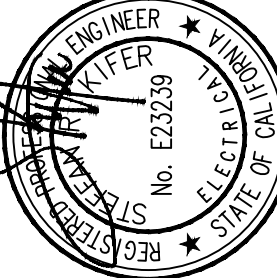
NO.

REVISIONS

ENGINEERING PLANS FOR:

WATER WELL 5F IMPROVEMENTS

SHEET TITLE:
TITLE 24 - POWER



STATE OF CALIFORNIA

Outdoor Lighting

NRCC-LTO-E (Created 01/21)

CALIFORNIA ENERGY COMMISSION

NRCC-LTO-E

CERTIFICATE OF COMPLIANCE

Project Name: Corcoran Well

Report Page: Page 1 of 6

Project Address: S/W Corner of Nevada and 5th, Corcoran, CA 93230

Date Prepared: 03/01/22

A. GENERAL INFORMATION

01 Project Location (city)

Corcoran

04 Total Illuminated Hardscape Area (ft²)

02 Climate Zone

13

03 Outdoor Lighting Zone per Title 24, Part 1 §10-1.1.5 or as designated by Authority Having Jurisdiction (AHJ):

☐ 12-0: Very Low - Undeveloped Parkland

☒ 12-2: Moderate - Rural Areas

☐ 12-4: High - Must be reviewed by CA Energy Commission for Approval

☐ 12-1: Low - Developed Parkland

☐ 12-3: Moderately High - Urban Areas

B. PROJECT SCOPE

Table Instructions: Include any outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)(2), for alterations.

My project consists of:

01

02

☒ New Lighting System

Must Comply with Allowances from §140.7.

☐ Altered Lighting System

Is your alteration increasing the connected lighting load (Watts)?

☐ Yes

☒ No

FOOTNOTES: N of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

Calculation of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)(2)										Compliance Results	
01	02	03	04	05	06	07	08	09			
General Hardscape Allowance §140.7(d)(1) (See Table I)	+ Per Application §140.7(d)(2) (See Table J)	+ Sales Frontage §140.7(d)(2) (See Table K)	+ Ornamental §140.7(d)(2) (See Table L)	+ Per Specific Area §140.7(d)(2) (See Table M)	OR Existing Power §141.0(b)(2) (See Table N)	= Total Allowed (Watts)	≥ Total Actual (Watts)				
313.595	+	+	+	+	OR	= 313.595	≥	73			
Cutoff Compliance (See Table G for Details)										COMPLIES	
Controls Compliance (See Table H for Details)										COMPLIES	

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

January 2021

STATE OF CALIFORNIA

Outdoor Lighting

NRCC-LTO-E (Created 01/21)

CALIFORNIA ENERGY COMMISSION

NRCC-LTO-E

CERTIFICATE OF COMPLIANCE

Project Name: Corcoran Well

Report Page: Page 2 of 6

Project Address: S/W Corner of Nevada and 5th, Corcoran, CA 93230

Date Prepared: 03/01/22

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Total Hardscape Area in Table A does not match the areas entered in Table I. Please review for compliance.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

Table Instructions: For new or altered lighting systems demonstrating compliance with §140.7 (ie Table I has expanded for input), include all luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)(2), (ie Table N has expanded for input), include only new luminaires being installed and replacement luminaires being installed as part of the project scope (ie, do not include existing luminaires remaining or existing luminaires being moved).

Designed Wattage:

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Watts per luminaire ¹	How Wattage is determined	Total number luminaires ²	Luminaire Status ³	Excluded per §140.7(a)	Design Watts	Cutoff Req. ≥ 6,200 initial lumen output §130.2(b) ⁴	Field Inspector
L1	LED Flood Light	<input type="checkbox"/> Linear	73 Mfr. Spec ²	1	New	<input type="checkbox"/>	73	Yes	<input type="checkbox"/>
Total Designed Watts:							73		

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b).

FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c).
¹ For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet for the luminaire should be indicated in column 05 instead of number of luminaires.
² Select "New" for new luminaires in a new outdoor lighting project or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.
⁴ Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output ≥ 6,200 unless exempted by §130.2(b).

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

January 2021

STATE OF CALIFORNIA

Outdoor Lighting

NRCC-LTO-E (Created 01/21)

CALIFORNIA ENERGY COMMISSION

NRCC-LTO-E

CERTIFICATE OF COMPLIANCE

Project Name: Corcoran Well

Report Page: Page 3 of 6

Project Address: S/W Corner of Nevada and 5th, Corcoran, CA 93230

Date Prepared: 03/01/22

G. CUTOFF REQUIREMENTS (BUG)

Table Instructions: Complete this table for fixtures of ≥ 6,200 initial luminaire lumens indicated on Table F as needing to comply with Cutoff Requirements. Maximum lumens can be found in Title 24, Part 11, Section 5.106.8.

01	02	03	04	05	06	07	08	09	10	11	12		
Name or Item Tag	Complete Luminaire Description	Backlight Rating ¹	Mounting Height from Property Line ¹	Max Allowable Backlight Rating ²	Backlight Rating Per Design	Uplight Rating ²	Max Allowable Uplight Rating ²	Uplight Rating Per Design	Mounting Height from Property Line ¹	Max Allowable Glare Rating ³	Glare Rating Per Design	Pass	Fail
L1	LED Flood Lig	Back hemisphere 1-2 MH from prop line	B3	B3	Area Lighting	U0	U0		Front hemisphere 1-2 MH from prop line	G1	G1	<input type="checkbox"/>	<input type="checkbox"/>

¹ FOOTNOTES: Mounting Height is labeled MH in this table
² Authority having jurisdiction may ask for luminaire cut sheets or other documentation to confirm luminaire type, uplight ratings and glare ratings used for compliance per §130.2(b).
³ BUG ratings with a lower number than the "Max Allowable" are compliant. Ex: If Max Allowable is Bug Rating is B4, then B0, B1, B2, B3 and B4 are all compliant.

H. OUTDOOR LIGHTING CONTROLS

Table Instructions: Complete this table demonstrating compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank. For each requirement in columns 02 through 04, do not leave the field blank, instead select NA or Exempt* from the dropdown list to indicate not applicable or an exemption.

Mandatory Controls				
01	02	03	04	05
Area Description	Shut-Off §130.2(c)(1)	Auto-Schedule §130.2(c)(2)	Motion Sensor §130.2(c)(3)	Field Inspector
Exterior Hardscape	Photocontrol	Yes	Yes	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

* NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c).
Table Continued

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

January 2021

STATE OF CALIFORNIA

Outdoor Lighting

NRCC-LTO-E (Created 01/21)

CALIFORNIA ENERGY COMMISSION

NRCC-LTO-E

CERTIFICATE OF COMPLIANCE

Project Name: Corcoran Well

Report Page: Page 4 of 6

Project Address: S/W Corner of Nevada and 5th, Corcoran, CA 93230

Date Prepared: 03/01/22

I. LIGHTING POWER ALLOWANCE (per §140.7)

Table Instructions: Please complete this table for areas using the allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7.A while "Use it or lose it" Allowances are per Table 140.7.B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

Calculated General Hardscape Lighting Power Allowance per Table 140.7.A (L2.2 & 3)

02	03	04	05	06	07	08	09	10
Area Description	Surface Type	Area Wattage Allowance (AWA) Illuminated Area (ft ²)	Allowed Density (W/ft ²)	Area Allowance (Watts)	Perimeter Length (ft)	Allowed Density Linear Allowance (W/ft)	Total General AWA + LWA (Watts)	
General Hardscape	Asphalt	1,575	0.023	36.225	161	0.17	27.37	63.595
Initial Wattage Allowance for Entire Site (Watts):								250
Total General Hardscape Allowance (Watts):								313.595

J. LIGHTING ALLOWANCE: PER APPLICATION

This Section Does Not Apply

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This Section Does Not Apply

L. LIGHTING ALLOWANCE: ORNAMENTAL

This Section Does Not Apply

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

January 2021

STATE OF CALIFORNIA

Outdoor Lighting

NRCC-LTO-E (Created 01/21)

CALIFORNIA ENERGY COMMISSION

NRCC-LTO-E

CERTIFICATE OF COMPLIANCE

Project Name: Corcoran Well

Report Page: Page 5 of 6

Project Address: S/W Corner of Nevada and 5th, Corcoran, CA 93230

Date Prepared: 03/01/22

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This Section Does Not Apply

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This Section Does Not Apply

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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YES	NO	Form/Title	Field Inspector
<input checked="" type="radio"/>	<input type="radio"/>	NRCL-LTO-01-E - Must be submitted for all buildings.	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
<input checked="" type="radio"/>	<input type="radio"/>	NRCL-LTO-02-E - Must be submitted for a lighting control system; or for an Energy Management Control System (EMCS), to be recognized for compliance.	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

YES	NO	Form/Title	Field Inspector
<input checked="" type="radio"/>	<input type="radio"/>	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls area added to ≤ 20 luminaires.	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

January 2021

STATE OF CALIFORNIA

Outdoor Lighting

NRCC-LTO-E (Created 01/21)

CALIFORNIA ENERGY COMMISSION

NRCC-LTO-E

CERTIFICATE OF COMPLIANCE

Project Name: Corcoran Well

Report Page: Page 6 of 6

Project Address: S/W Corner of Nevada and 5th, Corcoran, CA 93230

Date Prepared: 03/01/22

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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Documentation Author Name: Steffan Kifer	Documentation Author Signature:
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City/State/Zip: Fresno/CA/93727	Phone:

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Responsible Designer Name: Steffan Kifer	Responsible Designer Signature:
Company: Refik Electrical Engineers	Date Signed: 03-01-22
Address: 3032 N. Shelly Avenue	License: PER E23239
City/State/Zip: Fresno/CA/93727	Phone: 559-242-6477

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

January 2021

3032 N. SHELLY AVE
FRESNO, CA 93727
559.242.6477

SHEET NO.

6

OF 6

SCALE: AS NOTED
JOB NO: 221-0043
QA/QC: SK
FILE: 3/2/2022

NO.

REVISIONS

ENGINEERING PLAN(S) FOR:

WATER WELL 5F IMPROVEMENTS

TITLE 24 - EXTERIOR LIGHTING

SHEET TITLE: