SANTA YNEZ RIVER WATER CONSERVATION DISTRICT
IMPROVEMENT DISTRICT NO.1
Motor Control Center And Service Upgrades

VARIOUS LOCATIONS
SANTA YNEZ, CA

SHEET LIST

T100 - TITLE SHEET
G100 - GENERAL NOTES AND LEGEND

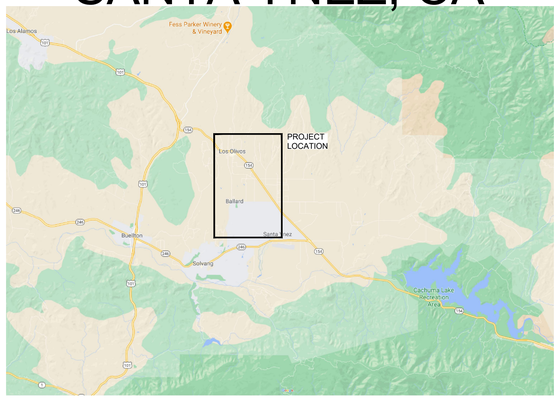
E001 - ELECTRICAL DETAILS

E100 - REFUGIO-3 BPS - SINGLE LINE DIAGRAM
E101 - REFUGIO-3 BPS - SITE ELECTRICAL
E102 - REFUGIO-3 BPS - PUMP CONTROL SCHEMATIC

E200 - ALAMO PINTADO BPS - SINGLE LINE DIAGRAM
E201 - ALAMO PINTADO BPS - SITE ELECTRICAL
E202 - ALAMO PINTADO BPS - PUMP CONTROL SCHEMATIC
E203 - ALAMO PINTADO BPS - RTU MODIFICATIONS
E204 - ALAMO PINTADO BPS - EXISTING PUMP 2 & 3 CONTROL PANEL

E300 - WELL 7 - SINGLE LINE DIAGRAM
E301 - WELL 7 - SITE ELECTRICAL
E302 - WELL 7 - PUMP CONTROL SCHEMATIC
E303 - WELL 7 - RTU MODIFICATIONS

E400 - WELL 25 - SLD AND SITE ELECTRICAL



PROJECT DESCRIPTION

REFUGIO 3 - BOOSTER PUMP STATION (E100 SERIES DRAWINGS)
- REPLACE EXISTING PG&E SERVICE CONNECTION AND METER WITH NEW METER AND MAIN SERVICE CIRCUIT.
- UPGRADING THREE-WIRE SERVICE TO A FOUR-WIRE SERVICE. (COORDINATE WITH PG&E)
- REPLACE EXISTING ACROSS-THE-LINE MCC WITH NEW MCC AND SOFT STARTER FOR THE EXISTING 75HP PUMP.
- EXISTING SCADA PLC TO PROVIDE START/STOP PUMP CONTROL.
- EXISTING SCADA PLC WILL MONITOR NEW MCC STATUS POINTS SUCH AS RUNNING, STOPPED, FAULT, LOCAL, AND AUTO STATUSES.
- OTHER INSTRUMENTATION BEING MONITORED BY EXISTING SCADA PLC, SUCH AS FLOW METER, TO REMAIN.

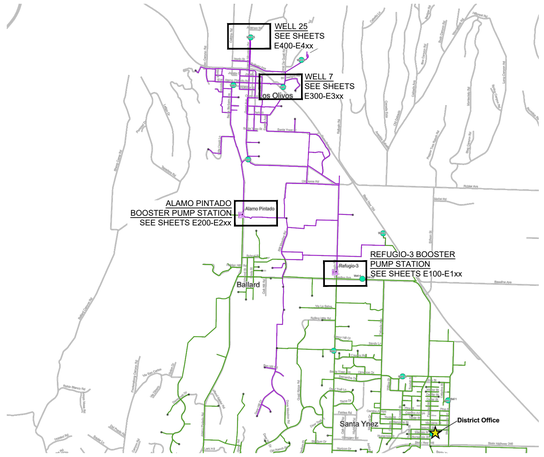
ALAMO PINTADO - BOOSTER PUMP STATION (E200 SERIES DRAWINGS)
- REPLACE EXISTING PG&E SERVICE CONNECTION AND METER WITH NEW METER AND MAIN SERVICE CIRCUIT.
- UPGRADING THREE-WIRE SERVICE TO A FOUR-WIRE SERVICE. (COORDINATE WITH PG&E)
- REPLACE EXISTING "LOW PROFILE" ACROSS-THE-LINE MCC WITH NEW "LOW PROFILE" MCC AND SOFT STARTER FOR THE EXISTING 125HP PUMP.
- EXISTING TESCO MCC FOR 50HP AND 75HP PUMPS IS TO REMAIN AND BE RE-FED FROM NEW MCC.
- EXISTING SCADA CABINET WILL NEED TO BE REPLACED. RELOCATE EXISTING SCADA PLC INTO MCC DEDICATED SCADA SECTION.
- EXISTING SCADA PLC TO PROVIDE START/STOP PUMP CONTROL.
- EXISTING SCADA PLC WILL MONITOR NEW MCC STATUS POINTS SUCH AS RUNNING, STOPPED, FAULT, LOCAL, AND AUTO STATUSES.
- OTHER INSTRUMENTATION BEING MONITORED BY EXISTING SCADA PLC, SUCH AS FLOW METER, TO REMAIN.
- REPLACE EXISTING GENERATOR CONNECTION CABINET WITH NEW GENERATOR CONNECTION CABINET AND MANUAL TRANSFER SWITCH.

WELL #7 PUMP STATION (E300 SERIES DRAWINGS)
- REPLACE EXISTING PG&E SERVICE CONNECTION AND METER WITH NEW METER AND MAIN SERVICE CIRCUIT.
- UPGRADING THREE-WIRE SERVICE TO A FOUR-WIRE SERVICE. (COORDINATE WITH PG&E)
- REPLACE EXISTING SOFT STARTER MCC WITH NEW MCC AND SOFT STARTER FOR THE EXISTING 200HP PUMP.
- EXISTING SCADA CABINET WILL NEED TO BE REPLACED. RELOCATE EXISTING SCADA PLC INTO MCC DEDICATED SCADA SECTION.
- EXISTING SCADA PLC TO PROVIDE START/STOP PUMP CONTROL.
- EXISTING SCADA PLC WILL MONITOR NEW MCC STATUS POINTS SUCH AS RUNNING, STOPPED, FAULT, LOCAL, AND AUTO STATUSES.
- OTHER INSTRUMENTATION BEING MONITORED BY EXISTING SCADA PLC, SUCH AS FLOW METER, TO REMAIN.
- REPLACE EXISTING GENERATOR CONNECTION CABINET WITH NEW GENERATOR CONNECTION CABINET AND MANUAL TRANSFER SWITCH.

WELL #25 PUMP STATION (E400 SERIES DRAWINGS)
- NEW GENERATOR CONNECTION CABINET AND MANUAL TRANSFER.

VICINITY MAP

NORTH



PROJECT LOCATIONS

ISSUED FOR BID
DESCRIPTION
REVISIONS
REV: DATE

STAMP:
REGISTERED PROFESSIONAL ENGINEER
GARRETT D. OTTO
20833
EXP. 9-30-22
ELECTRICAL
STATE OF CALIFORNIA

OTTO ELECTRICAL
OTTO ELECTRICAL, INC.
SAN LUIS OBISPO, CA
GOTTO@OTTOELECTRICAL.COM
805.459.4329

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River Water Conservation District
SANTA YNEZ
Improvement District No.1

PROJECT:
SANTA YNEZ RIVER WATER CONSERVATION DISTRICT IMPROVEMENT DISTRICT NO.1
MOTOR CONTROL CENTER AND SERVICE UPGRADES

SHEET TITLE:
TITLE SHEET

PRINT DATE:	8/3/2021
DRWN BY:	GNO
CHKD BY:	GNO
SCALE:	AS NOTED
JOB NO:	20-030
SHEET NO:	T100

8/3/2021 3:54 PM

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LEGEND

NOTE: INTERPRET IN CONTEXT

LIGHT FIXTURES

- CEILING SURFACEMOUNT
- WALL SURFACEMOUNT
- PENDANT MOUNT
- RECESSED DOWNLIGHT
- RECESSED WALLWASH
- RECESSED FLUOR.
- SURFACE FLUOR.
- FLUOR. STRIP UON
- TRACK LIGHT
- DIRECTIONAL FLOOD
- EMERGENCY FIXTURE
- POLE LIGHT
- POLE LIGHT- DECORATIVE
- UPLIGHT- FLUSH IN GRADE
- BOLLARD
- TANDEM-WIRED LAMPS
- UNDERCABINET LIGHT
- WALL SURFACEMOUNT LINEAR TYPE
- PENDANT LINEAR FLUOR.
- RECESSED WALLMOUNT
- WALLPACK
- EXIT LIGHT- WALL
- EXIT LIGHT- CEILING (ARROW INDICATES DIRECTION)
- A — LETTER ADJACENT INDICATES FIXTURE TYPE

SWITCHES

- SPST
- 2 DPST
- 3 3-WAY
- 4 4-WAY
- D DIMMER
- TIMER SWITCH
- T W/THERMAL OVERLOAD
- P W/PILOT LIGHT
- K KEY OPERATED
- DUAL LEVEL SWITCHING
- ,a SWITCHLEG DESIGNATION
- OS OCCUPANCY SENSOR

POWER/COMM.

- SINGLE RECEPT.
- DUPLEX RECEPT.
- DUPLEX- HALF SWITCHED
- DOUBLE DUPLEX
- SPECIAL CONFIGURATION
- FLOORMOUNT 208V, 1Ø RECEPT
- DUPLEX- FLOOR OUTLET
- GFI GROUND FAULT CIRCUIT INTERRUPT
- MOUNTED ABOVE COUNTER
- J JUNCTION BOX
- TELEPHONE OUTLET
- DATA OUTLET
- PHONE/DATA COMBO OUTLET
- MOUNTED ABOVE COUNTER
- TV TELEVISION OUTLET
- SAFETY DISCONNECT
- DROP CORD RECEPT
- JC ABOVE-CLGMOUNT J-BOX
- TV TV OUTLET-FLOORMOUNT
- TELEPHONE FLOOR OUTLET
- DATA FLOOR OUTLET
- PHONE/DATA COMBO FLOOR OUTLET

MISCELLANEOUS

- MOTOR
- T THERMOSTAT
- CIRCUIT BREAKER
- FUSIBLE SWITCH
- GROUND
- Ø PHASE
- CLOCK
- S CLOCK/SPEAKER COMBINATION
- WALL MOUNTED CLOCK
- PUSHBUTTON
- FLUSHMOUNT PANEL
- SURFACEMOUNT PANEL
- FLUSHMOUNT CABINET
- SURFACEMOUNT CABINET
- DM DAMPER MOTOR
- H HUMIDISTAT
- M MAGNETIC CONTACTOR
- COMBINATION STARTER

CONDUIT/WIRE

- NEW
- UNDERGROUND
- NEW POWER HOMERUN (3 HOTS & NEUT SHOWN)
- ISOLATED GROUND
- E EXISTING TO REMAIN
- (E) POWER HOMERUN
- WIRE LINE- CONTINUES
- CONDUIT STUB (W/MARKER)
- VERTICAL CONDUIT RUN
- CONDUIT SEAL
- FLEXIBLE CONNECTION
- LV LOW VOLTAGE
- SURFACEMOUNT RACEWAY
- INDICATES LINE CONTINUES
- CORD W/PLUG

FIRE ALARM

- FIRE ALARM CONTROL PANEL
- RPS REMOTE POWER SUPPLY
- H HORN- AUDIBLE DEVICE
- V VISUAL- VISUAL DEVICE
- AV AUDIBLE/VISUAL
- F FLOW SWITCH
- T TAMPER SWITCH
- P MANUAL PULL STATION
- SD SMOKE DETECTOR
- SD D DUCT SMOKE DETECTOR
- H HEAT DETECTOR
- B BELL
- END OF LINE RESISTOR
- C CHIME

SOUND

- S SPEAKER- CLG FLUSHMOUNT
- S SPEAKER- WALLMOUNT
- M MICROPHONE INPUT
- A AUXILIARY INPUT
- HS HEADSET OUTLET
- V VOLUME CONTROL
- V S SPEAKER- CLG FLUSHMOUNT VANDAL-RESISTANT
- S CLOCK/SPEAKER WALLMOUNT SEMI-FLUSH

ABBREVIATIONS

A	AMPERE	FACP	FIRE ALARM CONTROL PANEL	OCP	OVERCURRENT PROTECTION
AB	AMP BREAKER	FAT	FIRE ALARM TERMINAL	OD	OUTSIDE DIAMETER
ABAND	ABANDONED	FAU	FORCED AIR UNIT	OH	OVERHEAD
ABV	ABOVE	FBO	FURNISHED BY OTHERS	OSA	OFFICE of the STATE ARCHITECT
AC	ALTERNATING CURRENT	FC-#	FAN COIL	OSHPD	OFFICE of STATEWIDE HEALTH PLANNING & DEVELOPMENT
AC-#	AIR CONDITIONER	FLA	FULL LOAD AMPS		
ADJ	ADJACENT	FLR	FLOOR	OVLD	OVERLOAD
AF	AMP FUSE, AMP FRAME	FLUOR	FLUORESCENT	P	POLE
AFF	ABOVE FINISH FLOOR	FS	FUSIBLE SWITCH	PA	PUBLIC ADDRESS
AFG	ABOVE FINISH GRADE	FVNR	FULL VOLTAGE NON-REVERSING	PB	PULLBOX
AIC	AMPERES INTERRUPTING CAPACITY	G	GROUNDING CONDUCTOR	PC	PULL CHAIN
AI	ALUMINUM	GC	GENERAL CONTRACTOR	PC	PHOTOCELL
AS	AMP SWITCH RATING	GD	GARBAGE DISPOSAL	PC	PLUMBING CONTRACTOR
ATS	AUTOMATIC TIME SWITCH	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	ph	PHASE
ATS	AUTOMATIC TRANSFER SWITCH	GFI	GROUND FAULT CIRCUIT INTERRUPTER	PNL	PANEL
AV	AUDIBLE/AUDIO VISUAL	GND	GROUND	POC	POINT OF CONNECTION
AWG	AMERICAN WIRE GAGE	GRS	GALVANIZED RIGID STEEL	-PP-	POWER PRIMARY
BFG	BELOW FINISH GRADE	GWS	GANG WITH SWITCH	-PS-	POWER SECONDARY
BIL	BASIC IMPULSE LEVEL	H	HEIGHT, HIGH	PV	PHOTOVOLTAIC
BLDG	BUILDING	HACR	HEATING, AC & REFRIG	(R)	RELOCATE(D)
C	CONDUIT	HID	HIGH INTENSITY DISCHARGE	RECEPT	RECEPTACLE
-C-	CATV CONDUIT	HO	HIGH OUTPUT	REF	REFRIGERATOR
CAB'T	CABINET	HOA	HAND-OFF-AUTO	REQ'D	REQUIRED
CATV	CABLE TELEVISION	hp	HORSEPOWER	RLA	RATED LOAD AMPS
CB	CIRCUIT BREAKER, CODE BLUE	HPF	HIGH POWER FACTOR	RM	ROOM
CBC	CA. BUILDING CODE	HPS	HIGH PRESSURE SODIUM	RMC	RIGID METAL CONDUIT
CEC	CA. ELECTRICAL CODE	IC	INTERCOM	RMV	REMOVE
	CA. ENERGY COMMISSION	ID	IDENTIFICATION	RPLC	REPLACE
CF	COMPACT FLUORESCENT	IF	INSIDE FROST	RS	RAPID START
CFC	CALIFORNIA FIRE CODE	IG	ISOLATED GROUND	RTU	REMOTE TERMINAL UNIT
CLG	CEILING	J-BOX	JUNCTION BOX	SCC	SHORT CKT CURRENT
CL	CENTER LINE	k	QUANTITY 1000	SFM	STATE FIRE MARSHAL
CKT	CIRCUIT	kVA	KILOVOLTAMPS	SHT	SHEET
CNT'R	CONTRACTOR	kW	KILOWATT	SL	SLIMLINE, SWITCH LEG
C.O.	CONDUIT ONLY (W/PULLROPE)	LC	LIGHTING CONTACTOR	SPEC	SPECIFICATION
COND	CONDUIT, CONDUCTOR	LPS	LOW PRESSURE SODIUM	SPST	SINGLE POLE SINGLE THROW
CR	CRITICAL BRANCH	LRA	LOCKED ROTOR AMPS	SQ	SQUARE
CSFM	CALIFORNIA SFM	LS	LIFE SAFETY BRANCH	STR'G	STORAGE
CT	CURRENT TRANSFORMER	LT	LIGHT	SURF	SURFACE
Cu	COPPER	LTG	LIGHTING	SVC	SERVICE
CU-#	CONDENSING UNIT	LV	LOW VOLTAGE	SW	SWITCH
D	DEPTH	MC	MECHANICAL CONTRACTOR	T	TRANSFORMER, TERMINAL
DC	DIRECT CURRENT	MCA	MINIMUM CKT AMPS	-T-	TELEPHONE CONDUIT
DF	DRINKING FOUNTAIN	MCB	MAIN CIRCUIT BREAKER	(TBR)	TO BE REMOVED
DIA	DIAMETER	MCTB	MAIN CATV TERMINAL BOARD	TC	TIME CLOCK
DISC	DISCONNECT	MCTC	MAIN CATV TERMINAL CABINET	TEL	TELEPHONE
DIST	DISTRIBUTION	MECH	MECHANICAL	TELCO	TELEPHONE COMPANY
DPST	DOUBLE POLE SINGLE THROW	MFR	MANUFACTURER	TS	TIME SWITCH
DW	DISHWASHER	MFS	MAIN FUSIBLE SWITCH	TSO	TIME SWITCH OVERRIDE
EM	EMERGENCY	MH	METAL HALIDE	TSP	TWISTED SHIELDED PAIR
(E)	EXISTING	MLO	MAIN LUGS ONLY	TTB	TELEPHONE TERMINAL BOARD
EA	EACH	MOCP	MAXIMUM OCP	TTC	TELEPHONE TERMINAL CABINET
EB	ELECTRONIC BALLAST	MSB	MAIN SWITCHBOARD	TX	TRANSFORMER
EC	ELECTRICAL CONTRACTOR	MT	MOUNT	TYP	TYPICAL
EC-#	EVAPORATIVE COOLER	MT HT	MOUNTING HEIGHT	TYP SIM	TYPICAL SIMILAR
EF-#	EXHAUST FAN	MTS	MANUAL TRANSFER SWITCH	UC	UNDERCABINET, UNDERCOUNTER
EL	EVENING LIGHT	MTTB	MAIN TELEPHONE TERMINAL BOARD	UG	UNDERGROUND
ELEC	ELECTRICAL	MTTC	MAIN TELEPHONE TERMINAL CABINET	UGPS	UNDERGROUND PULL SECTION
EM	EMERG BATTERY BACKUP	MW	MICROWAVE	UL	UNDERWRITERS LABORATORIES
EMB	EMERGENCY BALLAST	N	NEUTRAL (GROUNDED CONDUCTOR)	UON	UNLESS OTHERWISE NOTED
EMERG	EMERGENCY	(N)	NEW	USA	UG SVC ALERT 800-642-2444
EOL	END OF LINE	N3R	NEMA 3R	V	VOLT
EQUIP'T	EQUIPMENT	NC	NORMALLY CLOSED	VA	VOLT AMPERES
ES	ENERGY SAVING	NEC	NATIONAL ELECTRICAL CODE	VAC	VOLT ALTERNATING CURRENT
(EXN)	(E) IN (N) LOCATION	NEMA	NAT'L ELEC MANUFACTURER'S ASSOC	VHO	VERY HIGH OUTPUT
(EXR)	(E) TO BE (R)	NIC	NOT IN CONTRACT	VOLT	VOLTAGE
EXT	EXTERIOR	NL	NIGHT LIGHT	VR	VANDAL-RESISTANT
F	FLUORESCENT	NO	NORMALLY OPEN	W	WIDTH, WATT, WIRE
(F)	FUTURE	NPF	NORMAL POWER FACTOR	WH-#	WATER HEATER
F-#	FURNACE	NTS	NOT TO SCALE	WP	WEATHERPROOF (NEMA 3R)
FA	FIRE ALARM	OC	ON CENTER	XFMR	TRANSFORMER
				+48	INDICATES MOUNTING HEIGHT AFF

GENERAL NOTES

1. CODE COMPLIANCE: ALL WORK SHALL CONFORM TO AND BE PERFORMED IN ACCORDANCE WITH CODES, STANDARDS, AND ORDINANCES AS SET FORTH BY THE AUTHORITIES HAVING JURISDICTION AND THEIR LATEST ADOPTED EDITIONS (IN EFFECT AT TIME CONSTRUCTION) OF THE FOLLOWING PUBLICATIONS:

   A. CALIFORNIA CODE OF REGULATIONS TITLE 24; INCLUDES 2019 CALIFORNIA ELECTRICAL CODE, 2019 CALIFORNIA FIRE CODE, 2019 CALIFORNIA BUILDING CODE, ETC. WITH LOCAL AMENDMENTS AS APPLICABLE.

   B. AMERICANS WITH DISABILITIES ACT (ADA).

2. SAFETY: THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL EQUIPMENT IN A SAFE AND RESPONSIBLE MANNER. KEEP DEAD FRONT EQUIPMENT IN PLACE WHILE EQUIPMENT IS ENERGIZED. CONDUCT ALL CONSTRUCTION OPERATIONS IN A SAFE MANNER FOR EMPLOYEES AS WELL AS OTHER WORKPERSONS OR ANYONE VISITING THE JOB SITE. PROVIDE BARRIERS, FLAGS, TAPE, ETC. AS REQUIRED FOR SAFETY. THE CONTRACTOR SHALL HOLD ALL PARTIES HARMLESS OF NEGLIGENT SAFETY PRACTICES, WHICH MAY CAUSE INJURY TO OTHERS ON OR NEAR THE JOB SITE.

3. LABEL PANELS, CABINETS, BACKBOARDS, MAIN DEVICES, SAFETY SWITCHES, CONTACTORS AND OTHER SPECIFICALLY DESIGNATED EQUIPMENT SHOWN ON PLANS. USE ENGRAVED LAMINATED PLASTIC NAMEPLATES ATTACHED BY SCREWS OR RIVETS. FOR FEEDERS, NEATLY AND INDELIBLY LABEL CONDUIT DESTINATIONS ON BOTH VISIBLE ENDS OF CONDUIT RUNS WHERE CONDUITS TERMINATE AT DESIGNATED ENCLOSURES, STRUCTURES OR EQUIPMENT (INCLUDING PULL AND SPLICE BOXES).

4. EQUIPMENT ANCHORAGE NOTE
   ALL ELECTRICAL EQUIPMENT SHALL BE ANCHORED OR BRACED TO MEET THE HORIZONTAL AND VERTICAL FORCES PRESCRIBED IN THE 2016 CBC, SECTION 1616A.1.23 AND ASCE 7-10 SECTIONS 13.3, 13.4 & 13.6.

   THE ATTACHMENT OF THE FOLLOWING ITEMS SHALL BE DESIGNED TO RESIST THE FORCES PRESCRIBED ABOVE, BUT NEED NOT BE DETAILED ON THE PLANS:

   A. EQUIPMENT WEIGHING LESS THAN 400 POUNDS SUPPORTED DIRECTLY ON THE FLOOR OR ROOF.
   B. FURNITURE REQUIRED TO BE ATTACHED IN ACCORDANCE WITH PART 2, TITLE 24, C.C.R..
   C. TEMPORARY OR MOVABLE EQUIPMENT.
   D. EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUPPORTED BY VIBRATION ISOLATORS.
   E. EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

   FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ELECTRICAL ENGINEER AND THE DISTRICT.

GENERAL SINGLE LINE DIAGRAM NOTES

- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONTACT AND COORDINATE WITH THE SERVING UTILITY TO ENSURE ALL SERVING UTILITY REQUIREMENTS ARE MET.

- SERVICE ENTRANCE EQUIPMENT SHALL BE IN ACCORDANCE WITH THE SERVING ELECTRIC UTILITY COMPANY'S REQUIREMENTS.

- FOR SERIES RATED EQUIPMENT; IN ADDITION TO ALL FACTORY APPLIED, CODE REQUIRED MARKING AND SPECIFIED LABELING OF THE ELECTRICAL PANELBOARD AND THEIR COMPONENTS, ADDITIONAL MARKING AND LABELING IDENTIFYING THE SERIES RATED SYSTEM SHALL BE PROVIDED AS FOLLOWS:

  A. THE SERIES COMBINATION INTERRUPTING RATING, AS INDICATED ABOVE, SHALL BE MARKED ON THE EQUIPMENT BY THE MANUFACTURER AS REQUIRED BY NEC 240-83(C).

  B. WHEN USED, THE CONTRACTOR SHALL USE A "SERIES RATED SYSTEM" LABEL INDICATING SERIES RATING WARNINGS, COMPLYING WITH NEC 110-22 AND SHALL BE FURNISHED BY MANUFACTURER. THE LABEL SHALL BE PERMANENTLY AFFIXED TO THE INTERIOR OF PANELBOARD'S TRIM WHERE IT CAN BE READILY SEEN BY SERVICE PERSONNEL. THE COMPLETED LABEL SHALL READ:

  CAUTION!
  SERIES COMBINATION SYSTEM RATED SYSTEM [XX,XXX]A.
  IDENTIFIED REPLACEMENT COMPONENT REQUIRED.
  ANY ADDITIONS OR REPLACEMENTS SHALL BE WITH IDENTICAL COMPONENTS.
  FAILURE TO DO SO COULD RESULT IN ELECTRICAL EXPLOSION AND FIRE.

  SERIES RATINGS SHALL NOT BE USED WHERE MOTORS ARE CONNECTED ON THE LOAD SIDE OF THE HIGHER-RATED OVERCURRENT DEVICE AND ON THE LINE SIDE OF THE LOWER-RATED OVERCURRENT DEVICE, WHEN THE SUM OF THE MOTOR FULL-LOAD CURRENTS EXCEEDS 1 PERCENT OF THE INTERRUPTING RATING OF THE LOWER-RATED CIRCUIT BREAKER PER NEC 240-86(B).

- ALL CONDUCTORS SHALL BE COPPER WITH TYPE [THHN/THWN] INSULATION UNLESS OTHERWISE NOTED.

- ALL SWITCHES, CIRCUIT BREAKERS AND OTHER EQUIPMENT, AS SPECIFIED, SHALL HAVE TERMINATION PROVISIONS LISTED AND IDENTIFIED FOR USE WITH 75 DEG. CONDUCTORS, AND ALL FEEDER CONDUCTORS, AND CONDUITS, ARE SIZE BASED ON USE OF 75 DEG. C COPPER WIRES TYPE THWN/THHN.

- DESIGN SHOWN IS BASED ON TESCO PRODUCTS. ENGINEER-APPROVED EQUAL ALTERNATE PRODUCT WILL BE ACCEPTABLE.

- ALL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED [UL, CSA, ETC.] (CEC 110-2).

- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SUPPLYING SWITCHGEAR SIZED TO FIT IN THE AVAILABLE SPACE. CONTRACTOR SHALL SUBMIT A 1/4" SCALE DRAWING OF ALL SWITCHGEAR, AND TERMINATION CABINETS ON FLOOR PLAN WITH SUBMITTAL.

- ALL BOXES AND ENCLOSURES (INCLUDING TRANSFER SWITCHES, GENERATORS, AND POWER PANELS) FOR EMERGENCY CIRCUITS SHALL BE PERMANENTLY MARKED SO THEY WILL BE READILY IDENTIFIED AS A COMPONENT OF AN EMERGENCY CIRCUIT OR SYSTEM, PER NEC 700-9(A).

- BRANCH CIRCUIT/FEEDER DISTANCE IS SHOWN FOR REFERENCE ONLY AS THE BASIS OF VOLTAGE DROP CALCULATIONS. CONDUCTOR DISTANCE AS INDICATED SHALL NOT BE USED FOR BIDDING/CONSTRUCTION PURPOSES. SHOULD THE FEEDER DISTANCE EXCEED THE LENGTH NOTED PER INSTALLATION CONDITIONS, NOTIFY THE ENGINEER OF RECORD. TYPICAL.

GENERAL DEMOLITION PLAN NOTES

A. EQUIPMENT SHOWN TO BE REMOVED IS SHOWN FOR REFERENCE ONLY. INFORMATION WAS OBTAINED FROM ORIGINAL DRAWINGS AND LIMITED FIELD INVESTIGATION AND MAY NOT REPRESENT ALL ELECTRICAL DEMOLITION. FIELD VERIFY CONDITIONS AND DISCONNECT/REMOVE ALL EQUIPMENT AS REQUIRED TO MEET THE INTENT OF THAT SHOWN ON THE LIGHTING AND POWER/SIGNAL DRAWINGS.

B. ALL ELECTRICAL EQUIPMENT SHOWN ON DRAWING (OR REQUIRED) TO BE DEMOLISHED SHALL BE DISCONNECTED, REMOVED AND DISPOSED OF BY ELECTRICAL CONTRACTOR. NO EQUIPMENT (RACEWAYS, BOXES, CABLING, ETC.) SHALL BE ABANDONED IN PLACE AND COVERED BY NEW CONSTRUCTION UNLESS NOTED OTHERWISE ON PLANS.

C. SCHEDULE ANY OUTAGES WITH DISTRICT PRIOR TO DE-ENERGIZATION OF ANY BRANCH CIRCUITS OR FEEDERS.

D. DISCONNECTION/REMOVAL OF EXISTING COMMUNICATIONS SYSTEMS COMPONENTS SHALL BE SCHEDULED WITH DISTRICT.

E. ALL EQUIPMENT THAT CAN BE RECYCLED SHALL BE RECYCLED APPROPRIATELY.

F. INFORMATION SHOWN FOR LOAD DESCRIPTIONS ON EXISTING PANELS WAS GAINED FROM ORIGINAL ELECTRICAL PLANS AND SHALL BE FIELD VERIFIED. CONFIRM LOAD ON EACH CIRCUIT OF ALL EXISTING PANELS AND PROVIDE UPDATED TYPEWRITTEN CIRCUIT DIRECTORY (IN PLASTIC SLEEVE) FOR EACH EXISTING PANELBOARD.

G. ANY LOADS REMOVED DURING DEMOLITION SHALL HAVE CONDUCTORS REMOVED BACK TO NEXT REMAINING DEVICE OR TO EXISTING PANELS. ABANDONED BREAKERS SHALL BE LABELED "SPARE".

H. PROVIDE BLANK FILLER PLATES IN DEADFRONTS OF EXISTING PANELBOARDS UPON COMPLETION OF PROJECT WHERE BREAKERS HAVE BEEN REMOVED.

I. PROVIDE NEW PLASTIC, LAMINATED ENGRAVED NAMEPLATES FOR EACH EXISTING PANEL TO MATCH NEW PANELS.

GENERAL POWER PLAN NOTES

A. FUSING: ALL FUSIBLE SAFETY DISCONNECT SWITCHES SHALL BE PROVIDED WITH DUAL-ELEMENT TIME DELAY TYPE FUSES SIZED AND RATED PER EQUIPMENT MANUFACTURERS' RECOMMENDATIONS. VERIFY WITH EQUIPMENT NAMEPLATE BEFORE INSTALLATION.

B. INSTALL SEPARATE NEUTRALS FOR EACH BRANCH CIRCUIT SERVING ISOLATED GROUND RECEPTACLES.

C. MOTOR OVERLOAD PROTECTION: WHERE REQUIRED BY NEC ARTICLE 430 PART C AND NOT SHOWN ON PLAN OR PROVIDED INTEGRAL WITH EQUIPMENT, PROVIDE AND INSTALL THERMAL OVERLOAD PROTECTION FOR ALL MOTORS.

D. DEVICE LOCATIONS SHOWN ARE SCHEMATIC AND APPROXIMATE. EXACT LOCATIONS SHALL BE FIELD VERIFIED DURING CONSTRUCTION.

GENERAL SITE PLAN NOTES

A. ALL UTILITY WORK AND COORDINATION SHALL BE INSTALLED PER THE UTILITY COMPANY ISSUED CONSTRUCTION DRAWINGS AND SPECIFICATIONS SPECIFIC TO THIS PROJECT. ANY UTILITY WORK PERFORMED WITHOUT PRIOR UTILITY COMPANY APPROVAL SHALL BE DONE AT THE CONTRACTOR'S RISK. PG&E APPLICATIONS HAVE BEEN INITIATED BY ENGINEER:

   REFUGIO 3
   APPLICATION NUMBER : 000120611467

   ALAMO PINTADO
   APPLICATION NUMBER : 000120611614

   WELL 7
   APPLICATION NUMBER : 000120611602

B. UTILITY COMPANY CONTACTS: BEFORE CONSTRUCTION, COORDINATE & VERIFY ALL UTILITY COMPANY REQUIREMENTS:

   PG&E - AARON BOWNE, AARON.BROWNE@PGE.COM, (831) 718-7412

C. TRENCHING AND BACKFILLING FOR ALL CONDUIT SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL CONDUITS SHALL HAVE MINIMUM COVER REQUIREMENTS AS SPECIFIED IN CEC 300-5. MORE STRINGENT DEPTH REQUIREMENTS MAY BE IMPOSED BY UTILITY COMPANY AND / OR THIS SPECIFICATION. JOINT TRENCHING MAY BE UTILIZED WHERE PRACTICABLE AND WHERE PERMITTED BY THIS SPECIFICATION.

D. LOCATIONS OF EXISTING UNDERGROUND (UG) UTILITY SYSTEMS SHALL BE DETERMINED BY CALLING UNDERGROUND SERVICE ALERT (USA). WHEN PLANNING UNDERGROUND WORK, AND BEFORE YOU DIG, CONTACT UNDERGROUND SERVICE ALERT (USA) AT LEAST 48 HOURS PRIOR TO EXCAVATION (WEEKENDS EXCLUDED) FOR THE LOCATION OF UNDERGROUND GAS AND ELECTRIC LINES OR EQUIPMENT.

E. MAINTAIN REQUIRED CLEARANCES FROM ALL SANITARY SEWER, WATER AND STORM DRAIN PIPING.

F. ALL SITE UTILITY WORK SHALL BE INSTALLED PER THE UTILITY COMPANY ISSUED CONSTRUCTION DRAWINGS AND SPECIFICATIONS SPECIFIC TO THIS PROJECT. ANY UTILITY WORK PERFORMED WITHOUT PRIOR UTILITY COMPANY APPROVAL SHALL BE DONE AT THE CONTRACTOR'S RISK.

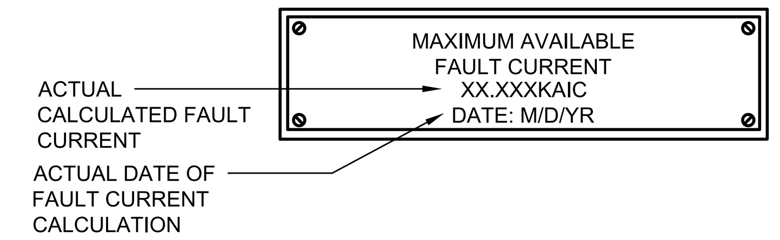
G. CONTRACTOR SHALL HIRE DISTRICT'S PREFERRED INTEGRATOR TO COMPLETE PLC AND HMI PROGRAMMING, ANTENNA AIMING, AND RTU DRAWINGS.
   AUTOSYS, LLC
   KEVIN SEIFERT
   KEVIN@AUTOSYSNET.COM
   (805) 464-7170

ARC FLASH LABEL NOTES

1. PER NEC 110.24 AND 110.21 PROVIDE LABELS ON ELECTRICAL SERVICE EQUIPMENT INDICATING MAXIMUM AVAILABLE FAULT CURRENT AND DATE OF FAULT CURRENT CALCULATION. REFER TO LABELING DETAILS, THIS SHEET.

2. PER NEC 110.16(A) AND 110.21 PROVIDE LABELS AND MARKINGS ON ELECTRICAL DISTRIBUTION EQUIPMENT (I.E. SWITCHBOARDS, PANELBOARDS) INDICATING POTENTIAL ARC FLASH HAZARDS. REFER TO LABELING DETAILS, THIS SHEET.

LABELING DETAILS



FAULT CURRENT LABEL

INSTALL PERMANENT LABELS AT ALL NEW AND MODIFIED SWITCHBOARDS, DISTRIBUTION AND BRANCH PANELBOARDS AND DISCONNECT SWITCHES.

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STAMP: REGISTERED PROFESSIONAL ENGINEER GARRETT OTTO 20833 EXP. 9-30-22 ELECTRICAL STATE OF CALIFORNIA

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OTTO ELECTRICAL, INC.
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PROJECT: SANTA YNEZ RIVER WATER CONSERVATION DISTRICT IMPROVEMENT DISTRICT NO.1
MOTOR CONTROL CENTER AND SERVICE UPGRADES

SHEET TITLE: GENERAL NOTES AND LEGEND

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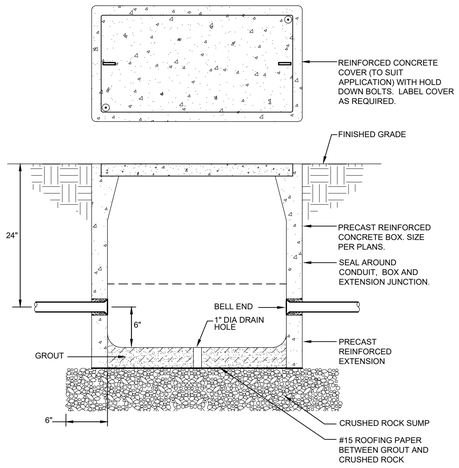
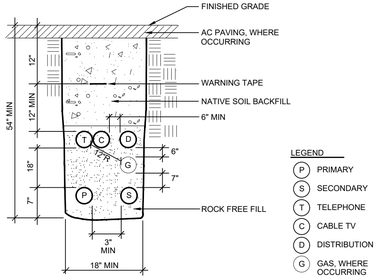


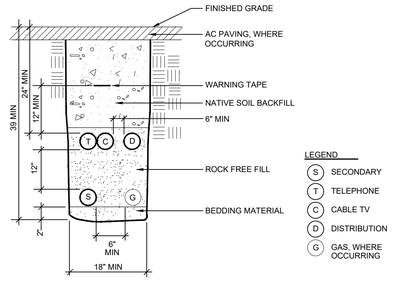
7 TYPICAL AT GRADE PULL BOX DETAIL

SCALE: NTS



3 PRIMARY TRENCH DETAIL

NTS



2 SECONDARY TRENCH DETAIL

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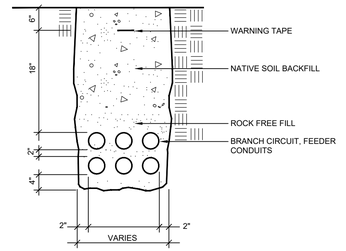
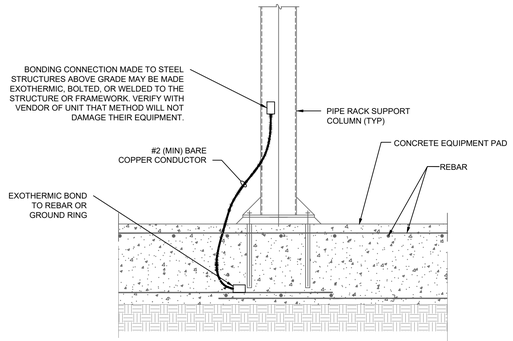


1 TYPICAL FEEDER/BRANCH CIRCUIT CONDUIT TRENCH DETAIL

SCALE: NTS



6 TYPICAL STRUCTURAL SUPPORT GROUND CONNECTION

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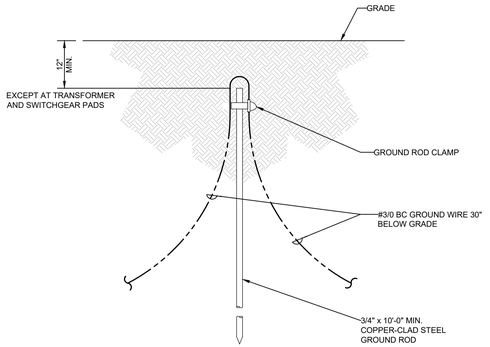
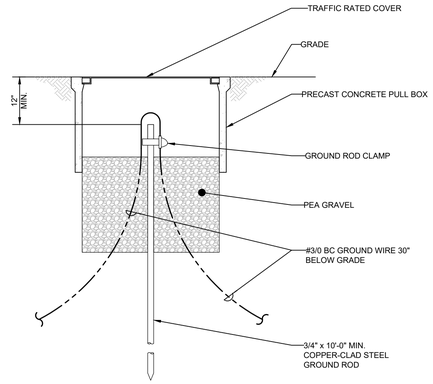


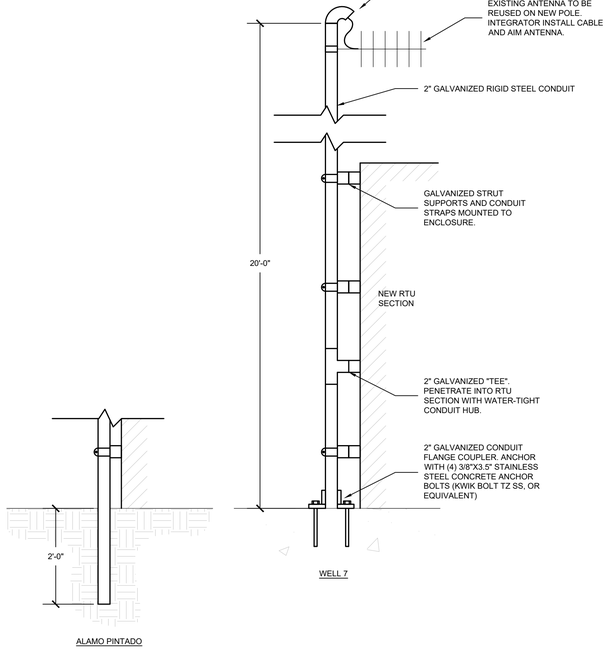
5 TYPICAL GROUND ROD

SCALE: NTS



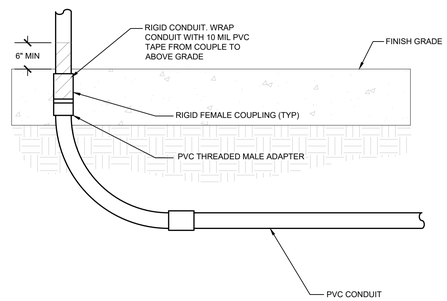
4 TYPICAL GROUND WELL

SCALE: NTS



9 ANTENNA POLE DETAIL

SCALE: NTS



8 TYPICAL CONDUIT TRANSITION

SCALE: NTS

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GARRETT D. OTTO
20833
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OTTO ELECTRICAL
OTTO ELECTRICAL, INC.
SAN LUIS OBISPO, CA
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River Water Conservation District
SANTA YNEZ
Improvement District, No. 1

PROJECT:

SANTA YNEZ RIVER WATER CONSERVATION DISTRICT IMPROVEMENT DISTRICT NO.1

MOTOR CONTROL CENTER AND SERVICE UPGRADES

SHEET TITLE:

ELECTRICAL DETAILS

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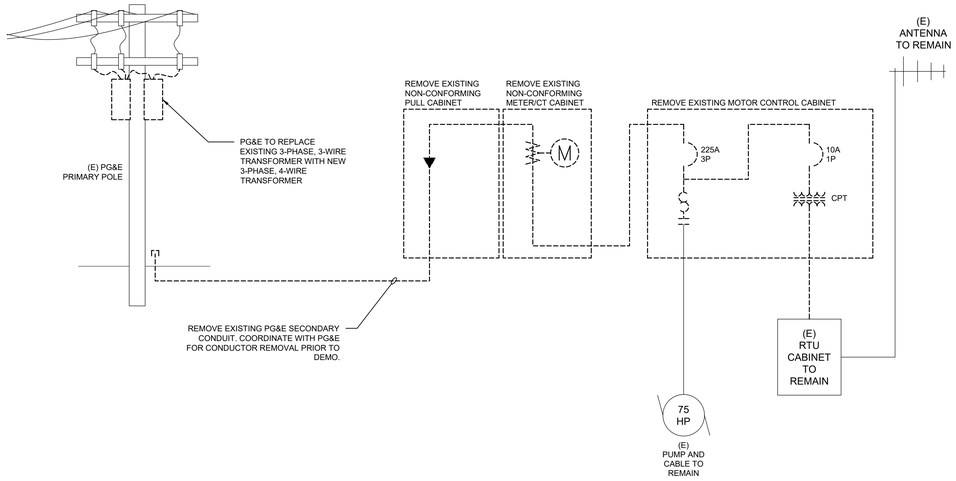
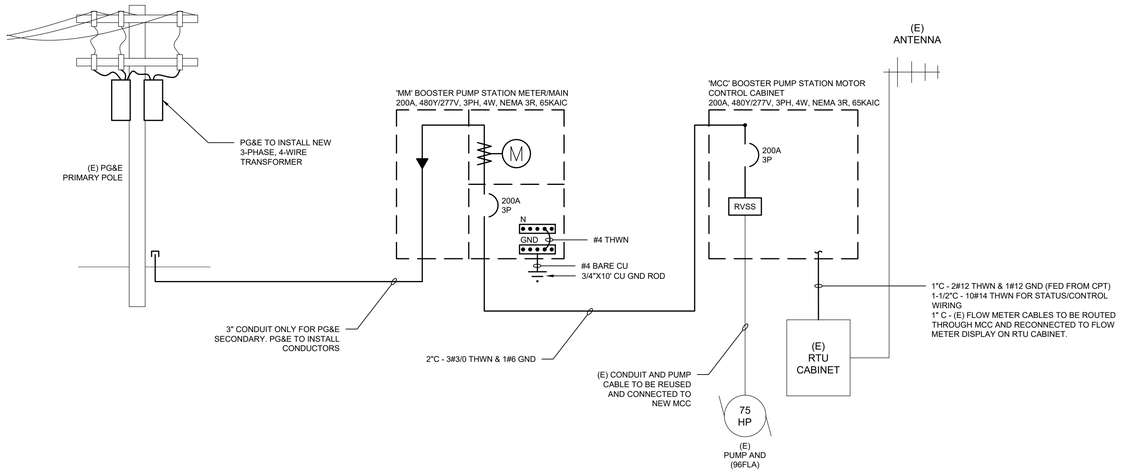


REFUGIO 3 BOOSTER PUMP STATION - EXISTING/DEMO SINGLE LINE DIAGRAM



REFUGIO 3 BOOSTER PUMP STATION - PROPOSED SINGLE LINE DIAGRAM

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GARRETT D. OTTO
20833
EXP. 9-30-22
ELECTRICAL
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SAN LUIS OBISPO, CA
GOTTO@OTTOELECTRICAL.COM
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River Water Conservation District
SANTA YNEZ
Improvement District, No. 1

PROJECT:

SANTA YNEZ RIVER WATER CONSERVATION DISTRICT IMPROVEMENT DISTRICT NO.1

MOTOR CONTROL CENTER AND SERVICE UPGRADES

SHEET TITLE:

REFUGIO-3 BPS - SINGLE LINE DIAGRAM

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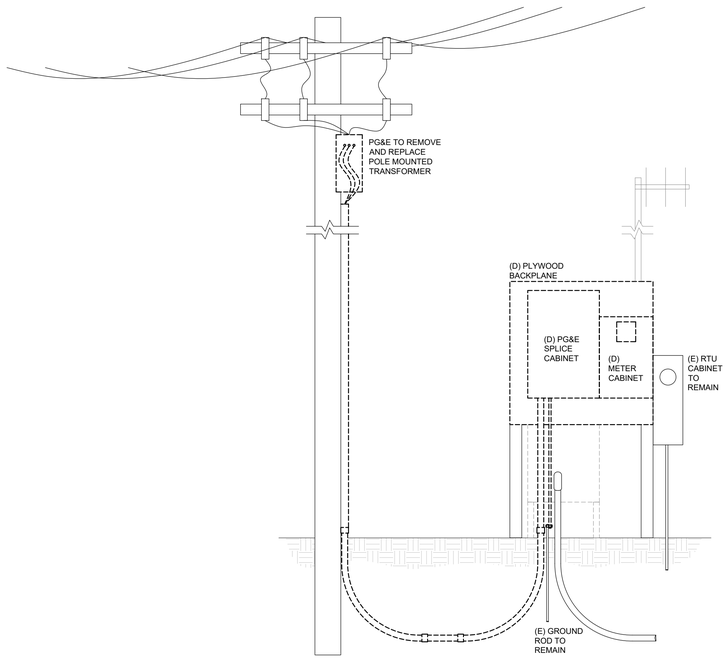
GENERAL SHEET NOTES

A. COORDINATE POWER OUTAGES, ELECTRIC SERVICE CONDUCTOR REMOVAL, SERVICE EQUIPMENT REMOVAL WITH DISTRICT AND PG&E AT LEAST 1 WEEK PRIOR.
B. CONTRACTOR SHALL STAGE EQUIPMENT TO MINIMIZE OUTAGE. OUTAGE DURATION SHALL BE CLOSELY COORDINATED AND PLANNED WITH DISTRICT.
C. CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING AS-FOUND CONDITIONS OF SCADA SYSTEM CONNECTIONS TO ENSURE SYSTEM IS RECONNECTED TO PROPER TERMINALS.
D. DESIGN BASED ON EATON METER/AIN AND MCC. CONTRACTOR RESPONSIBLE TO VERIFY ALL DIMENSIONS.

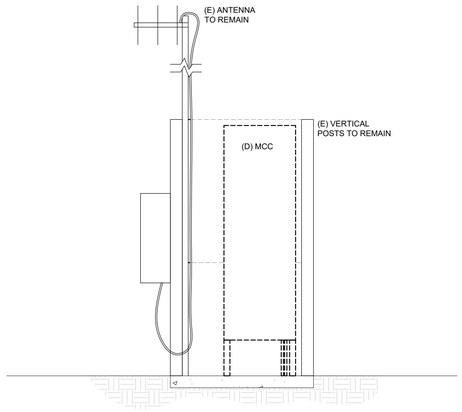
ⓧ DEMOLITION NOTES

1. DISCONNECT AND REMOVE EXISTING ELECTRIC UTILITY SPLICE SECTION AND METER CABINET.
2. REMOVE EXISTING SECONDARY CONDUIT.
3. REMOVE EXISTING MOTOR CONTROL CABINET. EXISTING PUMP FEEDER AND CONDUIT TO BE REUSED.
4. REMOVE AND REPLACE EXISTING PLYWOOD BACKPLANE.



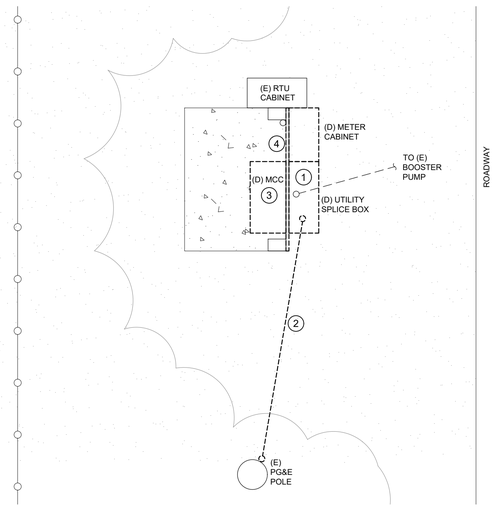
REFUGIO 3 - EAST DEMO ELEVATION

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



REFUGIO 3 - WEST DEMO ELEVATION

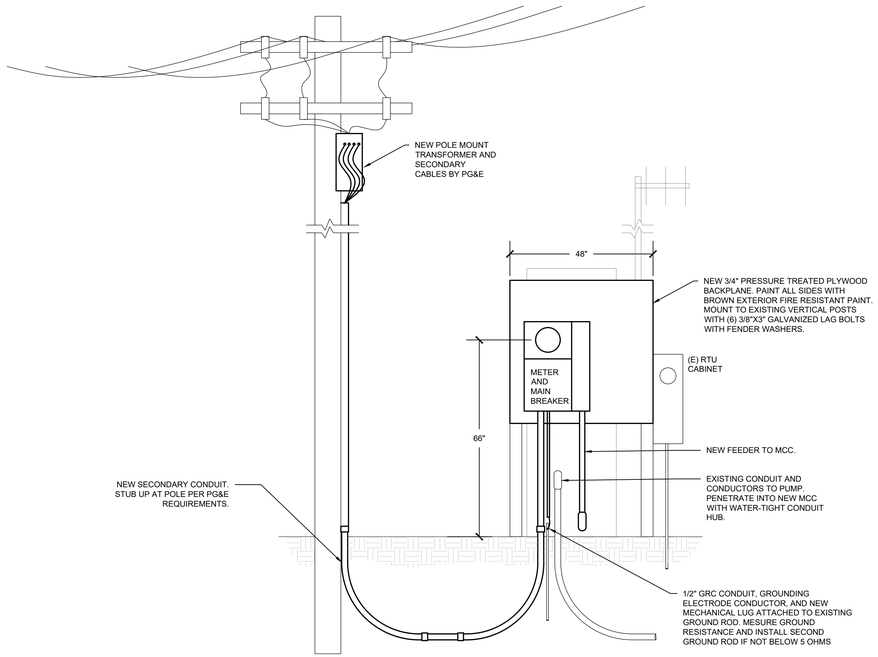
SCALE: 1/2" = 1'-0"



REFUGIO 3 - DEMO PLAN

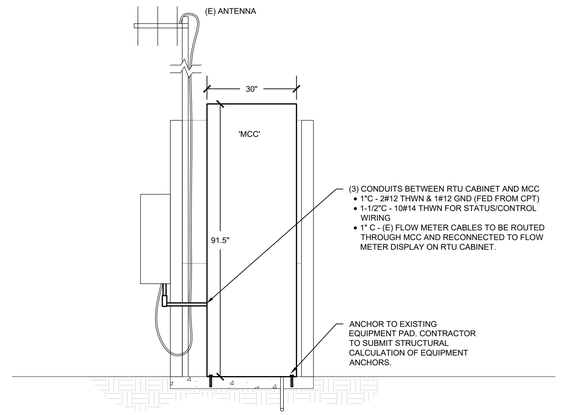
SCALE: 1/2" = 1'-0"

NORTH



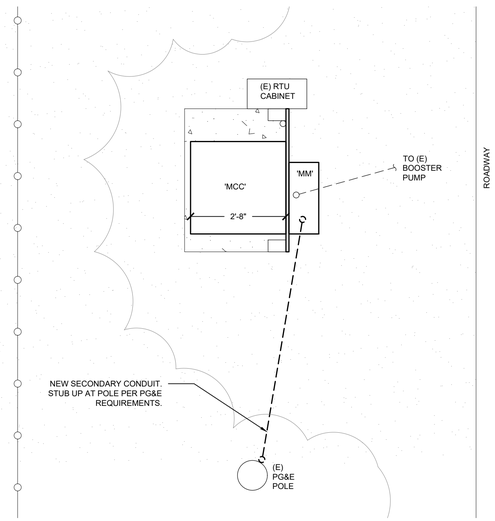
REFUGIO 3 - EAST ELEVATION

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



REFUGIO 3 - WEST ELEVATION

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



REFUGIO 3 - SITE PLAN

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

NORTH

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GARRETT D. OTTO
20833
EXP. 9-30-22
ELECTRICAL
STATE OF CALIFORNIA

OTTO ELECTRICAL
OTTO ELECTRICAL, INC.
SAN LUIS OBISPO, CA
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River Water Conservation District
SANTA YNEZ
Improvement District, No. 1

PROJECT:

SANTA YNEZ RIVER WATER CONSERVATION DISTRICT IMPROVEMENT DISTRICT NO.1

MOTOR CONTROL CENTER AND SERVICE UPGRADES

SHEET TITLE:

REFUGIO-3 BPS - SITE ELECTRICAL

PRINT DATE:	8/3/2021
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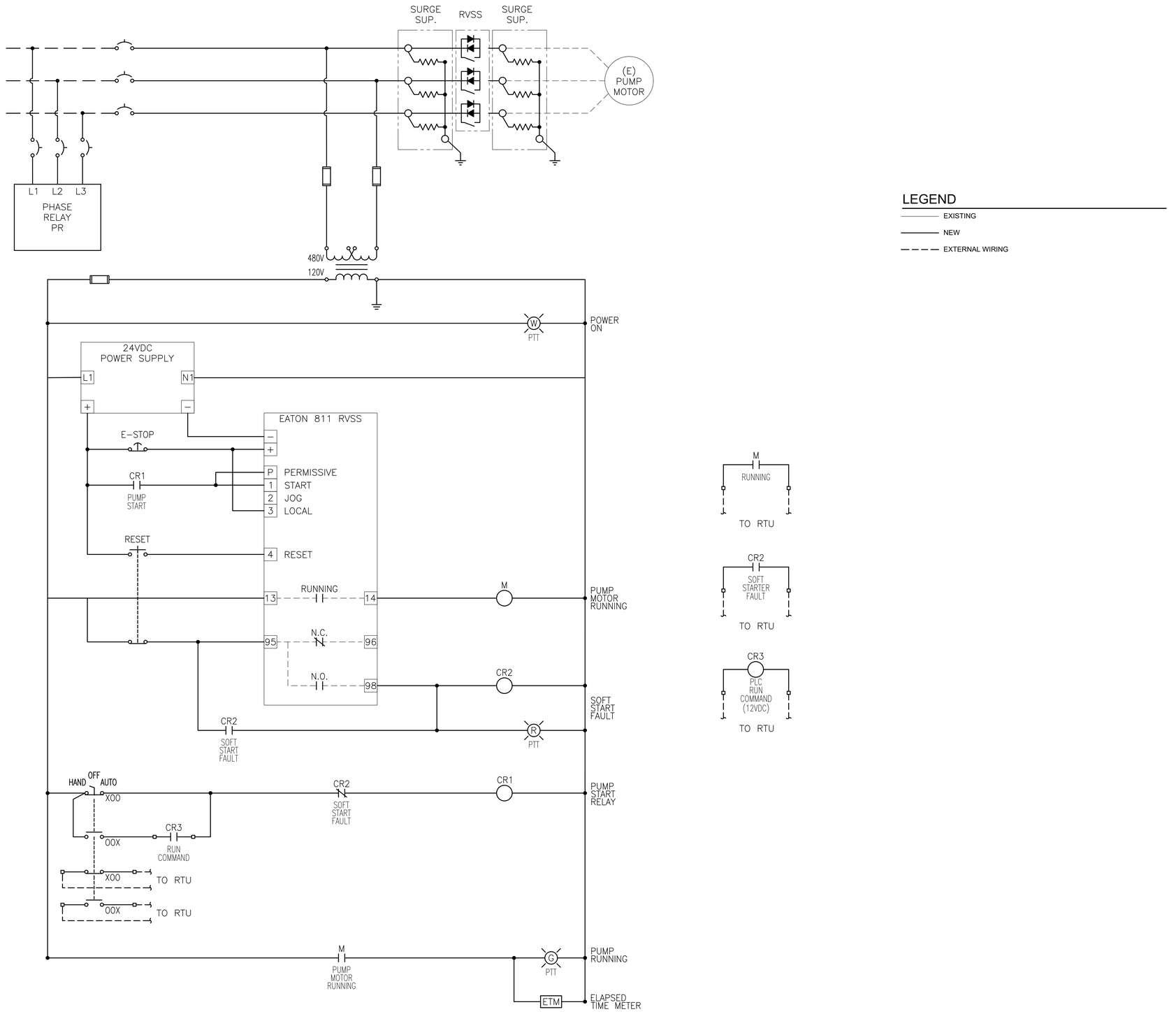

LEGEND

- EXISTING
- NEW
- EXTERNAL WIRING

REFUGIO-3 BOOSTER PUMP STATION - PUMP STARTER CONTROL SCHEMATIC

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20833
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ELECTRICAL
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River Water Conservation District
SANTA YNEZ
Improvement District, No. 1

PROJECT:

SANTA YNEZ RIVER WATER CONSERVATION DISTRICT IMPROVEMENT DISTRICT NO.1

MOTOR CONTROL CENTER AND SERVICE UPGRADES

SHEET TITLE:

REFUGIO-3 BPS - PUMP CONTROL SCHEMATIC

PRINT DATE:	8/3/2021
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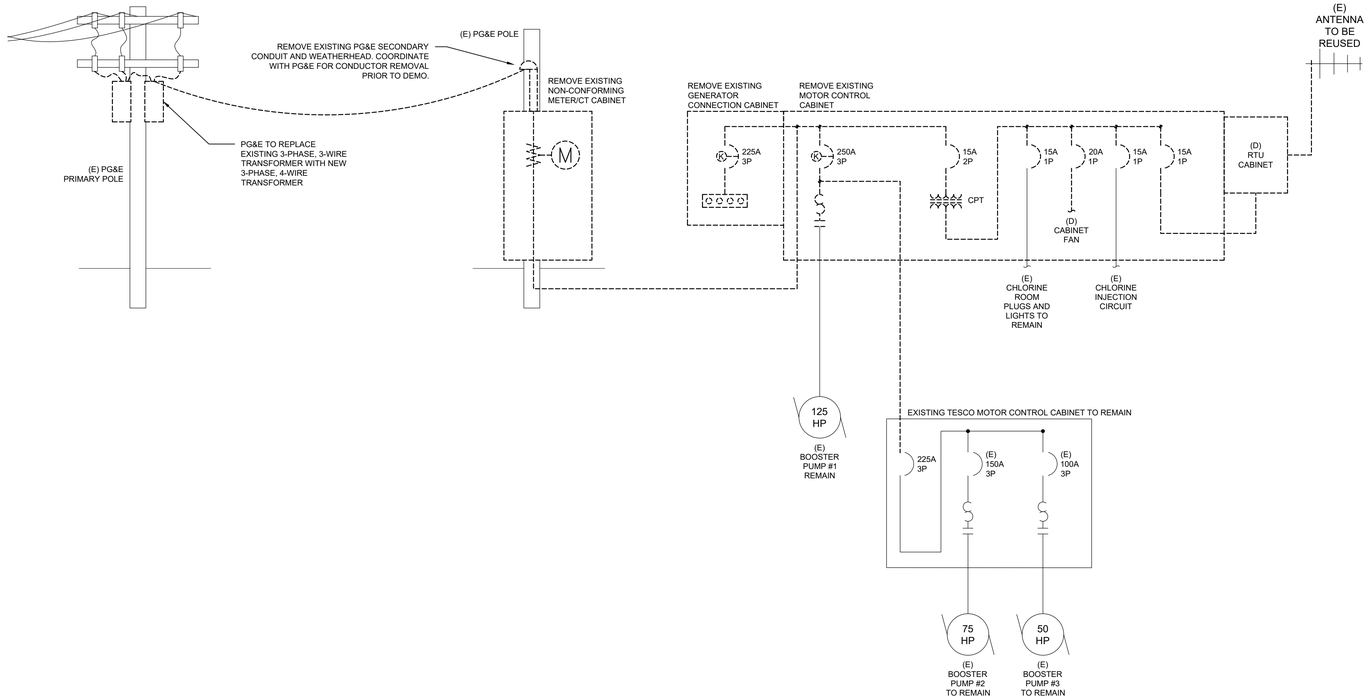

ALAMO PINTADO BOOSTER PUMP STATION - EXISTING/DEMO SINGLE LINE DIAGRAM

ALAMO PINTADO BOOSTER PUMP STATION - PROPOSED SINGLE LINE DIAGRAM

REVISIONS:

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20833
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River Water Conservation District
SANTA YNEZ
Improvement District, No. 1

PROJECT:

SANTA YNEZ RIVER WATER CONSERVATION DISTRICT IMPROVEMENT DISTRICT NO.1

MOTOR CONTROL CENTER AND SERVICE UPGRADES

SHEET TITLE:

ALAMO PINTADO BPS - SINGLE LINE DIAGRAM

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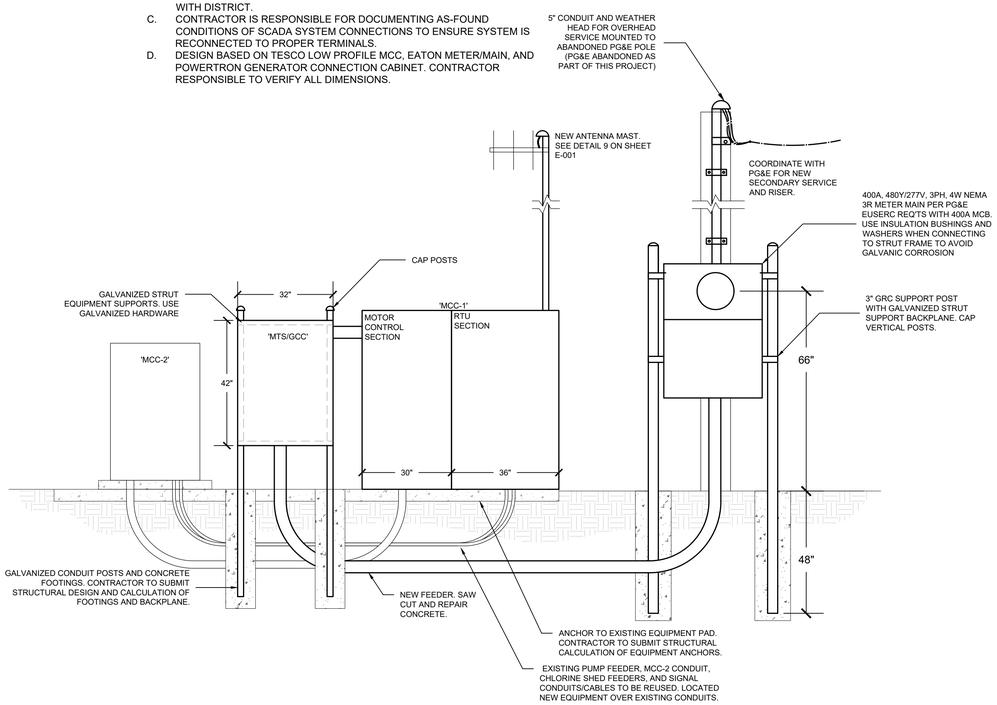
GENERAL SHEET NOTES

A. COORDINATE POWER OUTAGES, ELECTRIC SERVICE CONDUCTOR REMOVAL, SERVICE EQUIPMENT REMOVAL WITH DISTRICT AND PG&E AT LEAST 1 WEEK PRIOR.
B. CONTRACTOR SHALL STAGE EQUIPMENT TO MINIMIZE OUTAGE. OUTAGE DURATION SHALL BE CLOSELY COORDINATED AND PLANNED WITH DISTRICT.
C. CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING AS-FOUND CONDITIONS OF SCADA SYSTEM CONNECTIONS TO ENSURE SYSTEM IS RECONNECTED TO PROPER TERMINALS.
D. DESIGN BASED ON TESCO LOW PROFILE MCC, EATON METER/MAIN, AND POWERTRON GENERATOR CONNECTION CABINET. CONTRACTOR RESPONSIBLE TO VERIFY ALL DIMENSIONS.

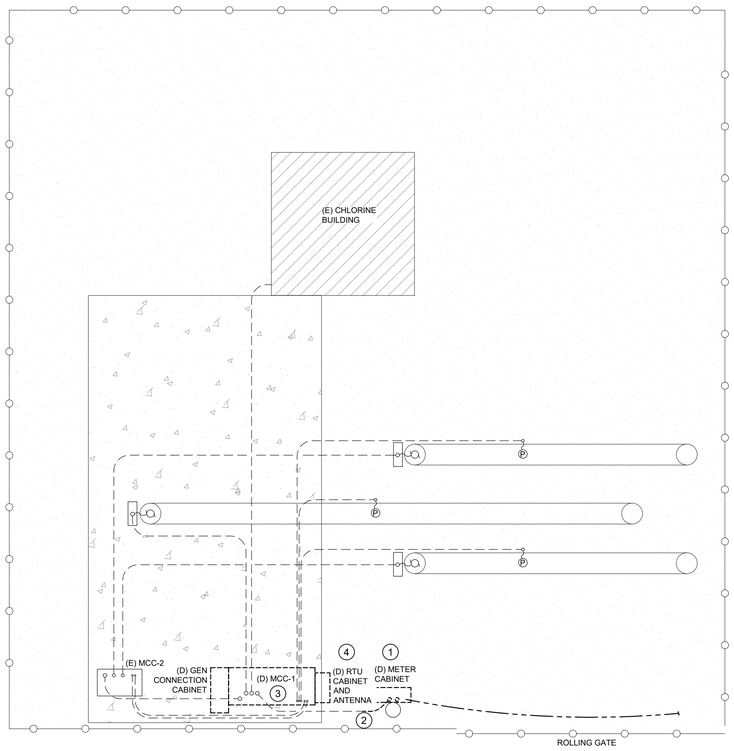


ALAMO PINTADO - NORTH ELEVATION

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

ⓧ DEMOLITION NOTES

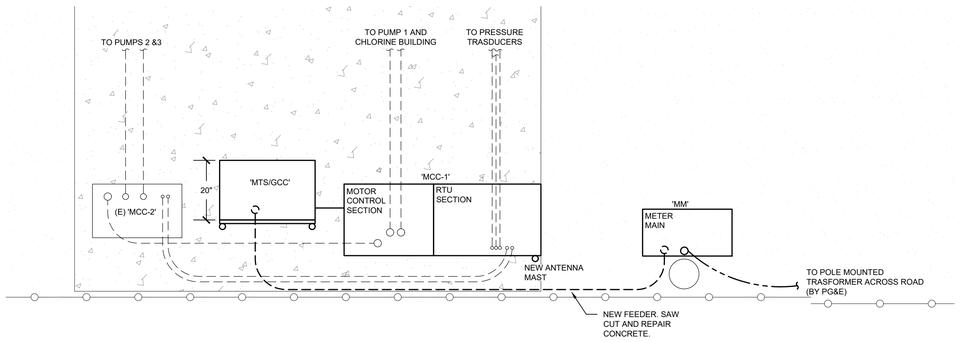
1. DISCONNECT AND REMOVE EXISTING ELECTRIC UTILITY METER CABINET.
2. REMOVE EXISTING SECONDARY CONDUIT. CUT, SEAL, AND ABANDON UNDERGROUND.
3. REMOVE EXISTING MOTOR CONTROL CABINET. EXISTING PUMP FEEDER, MCC-2 CONDUIT, CHLORINE SHED FEEDERS, AND SIGNAL CONDUITS/CABLES TO BE REUSED.
4. RTU BACKBOARD, PLC, TERMINAL BLOCKS, AND BATTERIES TO BE RELOACTED INTO NEW EQUIPMENT RTU SECTION. REMOVE EXISTING RTU CABINET.



ALAMO PINTADO - EXISTING/DEMO PLAN

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

NORTH



ALAMO PINTADO - PROPOSED SITE PLAN

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

NORTH

REVISIONS:

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GARRETT D. OTTO
20833
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River Water Conservation District
SANTA YNEZ
Improvement District, No. 1

PROJECT:

SANTA YNEZ RIVER WATER CONSERVATION DISTRICT IMPROVEMENT DISTRICT NO.1

MOTOR CONTROL CENTER AND SERVICE UPGRADES

SHEET TITLE:

ALAMO PINTADO BPS - SITE ELECTRICAL

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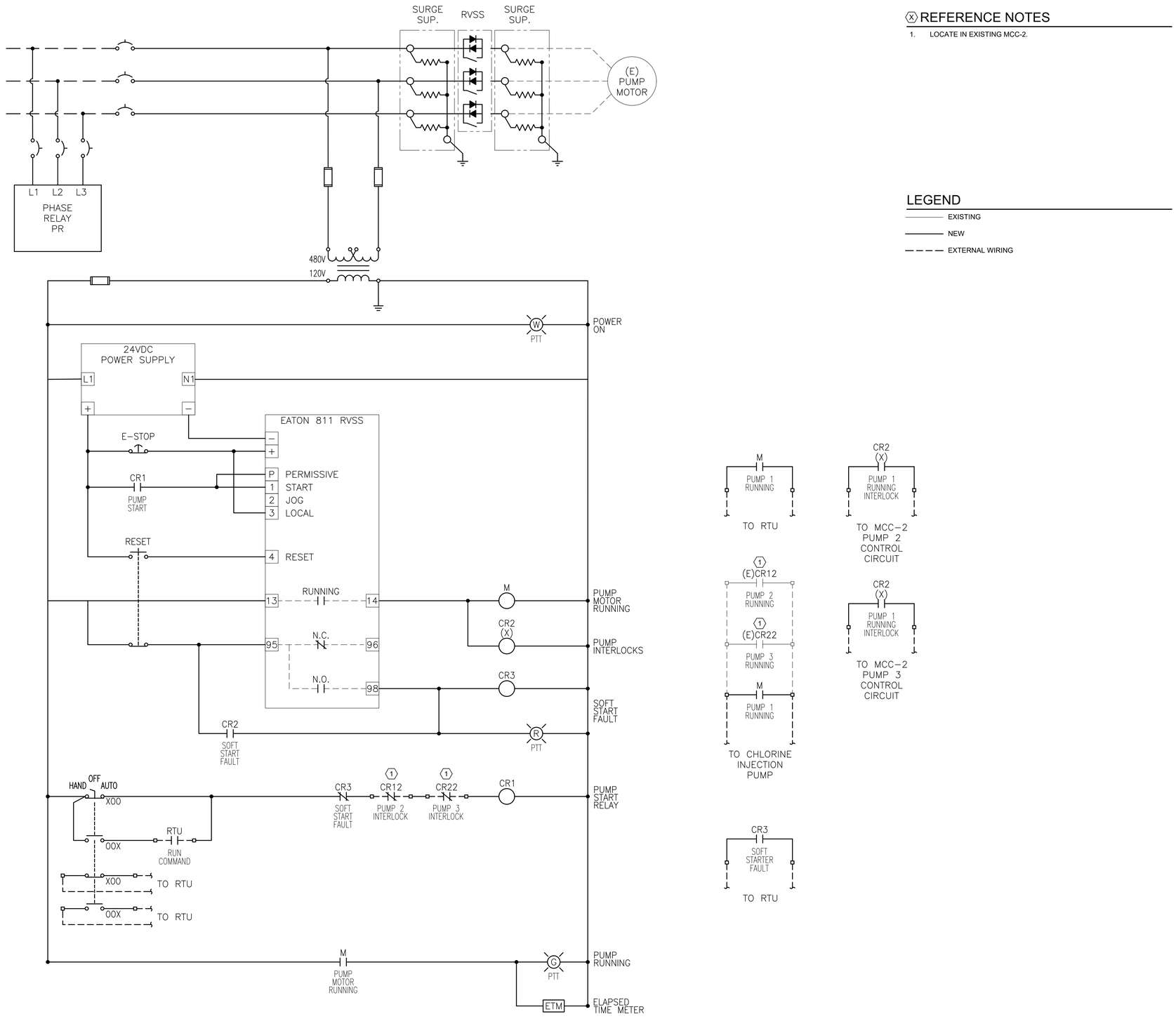

REFERENCE NOTES

1. LOCATE IN EXISTING MCC-2.

LEGEND

- EXISTING
- NEW
- EXTERNAL WIRING

ALAMO PINTADO BOOSTER PUMP STATION - PUMP STARTER CONTROL SCHEMATIC

REVISIONS:

REV:	DATE	DESCRIPTION
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GARRETT D. OTTO
20833
EXP. 9-30-22
ELECTRICAL
STATE OF CALIFORNIA

OTTO ELECTRICAL
OTTO ELECTRICAL, INC.
SAN LUIS OBISPO, CA
GOTTO@OTTOELECTRICAL.COM
805.458.4329

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River Water Conservation District
SANTA YNEZ
Improvement District, No. 1

PROJECT:

SANTA YNEZ RIVER WATER CONSERVATION DISTRICT IMPROVEMENT DISTRICT NO.1

MOTOR CONTROL CENTER AND SERVICE UPGRADES

SHEET TITLE:

ALAMO PINTADO BPS - PUMP CONTROL SCHEMATIC

PRINT DATE:	8/3/2021
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JOB NO:	20-030

SHEET NO:

E202

8/3/2021 3:55 PM

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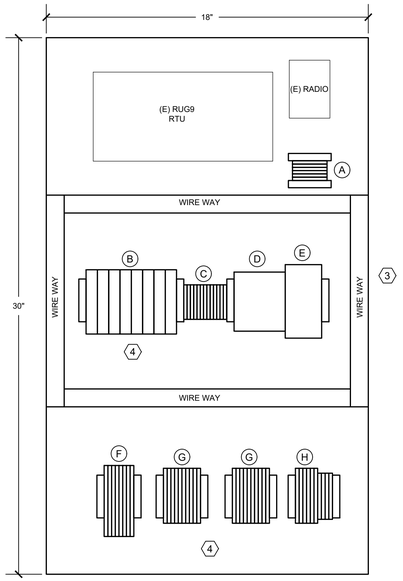
ⓧ RTU PANEL NOTES (SUGGESTED LAYOUT ONLY)

A. 12VDC TERMINAL AND FUSE BLOCKS (BLACK, RED) FROM POWER SUPPLY
B. 12VDC DIGITAL OUTPUT
C. 24VDC TERMINAL AND FUSE BLOCKS (BLACK, RED) FROM LOOPCHG CARD
D. 12VDC POWER SUPPLY
E. AC POWER CONDITIONER
F. ANALOG INPUT TERMINAL BLOCKS (GRAY)
G. DIGITAL INPUT TERMINAL BLOCKS (BLUE)
H. AC TERMINAL AND FUSE BLOCKS (BLACK, WHITE, GREEN/YELLOW)



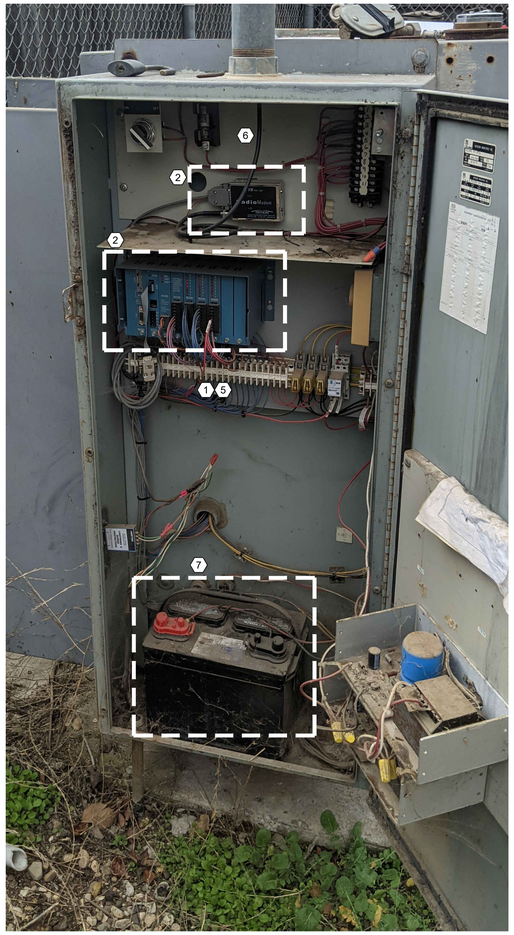
PROPOSED RTU BACKPLANE LAYOUT

CONTROL NOTES

A. PROVIDE DRY CONTACTS FOR ALL DIGITAL INPUTS (12VDC RATED). REFER TO CONTROL SCHEMATIC.
B. PROVIDE 12VDC COIL RELAY FOR ALL DIGITAL OUTPUTS ON NEW RTU BACKPLANE.

ⓧ REFERENCE NOTES

1. DETERMINATE EXISTING FIELD WIRES. ENSURE FIELD WIRES TO REMAIN ARE PROPERLY AND SECURELY LABELED. (CONTRACTOR)
2. RELOCATE RTU AND RADIO ONTO NEW RTU BACKPLANE ENCLOSURE SECTION OF MCC. (INTEGRATOR)
3. INTEGRATOR SHALL BUILD NEW RTUBACK PLANE TO FIT INTO NEW SCADA SECTION (VERIFY DIMENSIONS). PROPOSED BACKPLANE BASED ON WELL 25 AS REFERENCE ONLY. INTEGRATOR TO DEVELOP RTU BACKPLANE, LOOP, AND RTU POWER DRAWING AND SUBMIT FOR APPROVAL. (INTEGRATOR)
4. CONTRACTOR TO INSTALL NEW CONTROL AND POWER WIRES BETWEEN RTU AND MOTOR CONTROL CIRCUIT PER E202. (CONTRACTOR)
5. EXTEND EXISTING STATUS/SIGNAL FROM FIELD BACK TO NEW RTU TERMINAL BLOCK CONTRACTOR TO INSTALL WIRES AND CONFIRM TERMINATIONS WITH INTEGRATOR.
6. ROUTE NEW ANTENNA CABLE BETWEEN RADIO AND NEW ANTENNA LOCATION. EXISTING ANTENNA TO BE RE-USED. (CONTRACTOR).
7. RELOCATE BATTERY INTO NEW CONTROLS SECTION OF MCC. (INTEGRATOR)



EXISTING RTU CABINET

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GARRETT D. OTTO
20833
EXP. 9-30-22
ELECTRICAL
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OTTO ELECTRICAL, INC.
SAN LUIS OBISPO, CA
GOTTO@OTTOELECTRICAL.COM
805.459.4329

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River Water Conservation District
SANTA YNEZ
Improvement District No. 1

PROJECT:
SANTA YNEZ RIVER WATER CONSERVATION DISTRICT IMPROVEMENT DISTRICT NO.1
MOTOR CONTROL CENTER AND SERVICE UPGRADES

SHEET TITLE:
ALAMO PINTADO BPS - RTU MODIFICATIONS

PRINT DATE:	8/3/2021
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SHEET NO:	

E203

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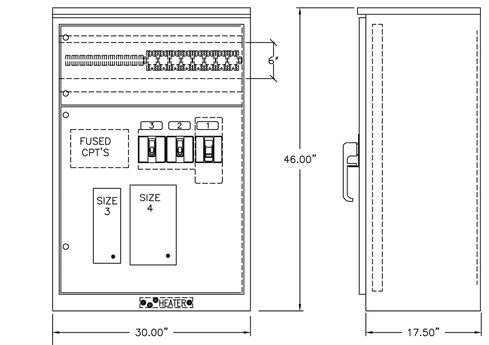
*FOR REFERENCE ONLY



Underwriters Laboratories Inc.
File No. E62062

TESCO CONTROLS INC.
916 395-8800
SACRAMENTO, CA.

TESCO # T-28593
24-500

INDUSTRIAL CONTROL PANEL

VOLTAGE	PHASE	WIRES	MAINS AMPERES	HZ
480	3	3	225	60

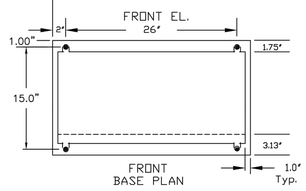
SUITABLE FOR USE ON A CIRCUIT CAPABLE OF DELIVERING NOT MORE THAN:

AMPERES		AT VOLTAGE
25,000	RMS SYM	480 V

METER SOCKET RATING NA A. CONT.
ENCLOSURE: TYPE 3R

LEGENDPLATE LIST
WHITE LETTERING ON BLACK PHENOLIC
R = RING TYPE, P = 3/4 x 3 PLATE

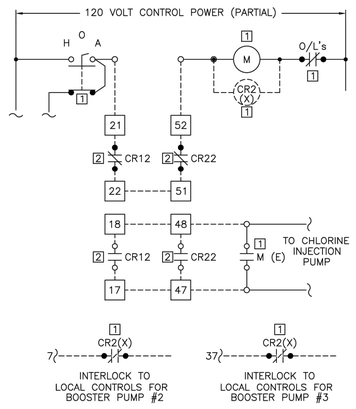
1	MAIN DISCONNECT	P
2	BOOSTER PUMP #2	P
3	BOOSTER PUMP #3	P
4		



CONSTRUCTION NOTES
1. EXTERIOR 12 GA. H.D. GALV. STEEL AND INTERIOR 14 GA. COLD ROLLED STEEL ELECTRICALLY WELDED AND REINFORCED WHERE REQUIRED.
2. CONSTRUCTION WILL BE NEMA 3R AND 12, RAINTIGHT AND DUSTTIGHT.
3. ALL NUTS, BOLTS, SCREWS AND HINGES WILL BE STAINLESS STEEL.
4. NUTS, BOLTS & SCREWS WILL NOT BE VISIBLE FROM OUTSIDE OF PEDESTAL.
5. PHENOLIC NAMEPLATES WILL BE PROVIDED AS REQUIRED.
6. CONTROL WIRING WILL BE MARKED AT BOTH ENDS BY PERMANENT WIRE MARKERS.
7. A PLASTIC COVERED WIRING DIAGRAM WILL BE ATTACHED TO THE INSIDE OF THE FRONT DOOR.
8. ENCLOSURE WILL BE FACTORY WIRED AND CONFORM TO REQUIRED NEMA STANDARDS.
9. SEE PAINT SPECIFICATION FOR FINISH.

TESCO'S POLY-PORC COATING SYSTEM
INCLUDES A FIVE STAGE DIP TANK METAL PREPARATION PROCESS
1- ALKALINE CLEANER 180°F
2- CLEAR WATER RINSE
3- IRON PHOSPHATE APPLICATION 160°F
4- CLEAR WATER RINSE
5- INHIBITIVE RINSE TO SEAL PHOSPHATED SURFACES 140°F
FINISHED WITH AN ELECTROSTATICALLY APPLIED DRY POLYESTER POWDER COATING THEN BAKED @ 380°F TO CURE

FINISH COLOR; HOSPITAL WHITE, INTERIOR and EXTERIOR



[1] DEVICE LOCATED AT CONTROL SECTION OF EXISTING MCC
O NEW TERMINAL IN CONTROL SECTION OF EXISTING MCC
[2] DEVICE LOCATED AT CONTROL SECTION OF NEW B/P MCC
[##] TERMINAL IN CONTROL SECTION OF NEW B/P MCC
------ FIELD WIRING MODIFICATIONS BY ELECTRICAL CONTRACTOR

EXISTING BOOSTER PUMP #1 CONTROL MODIFICATIONS

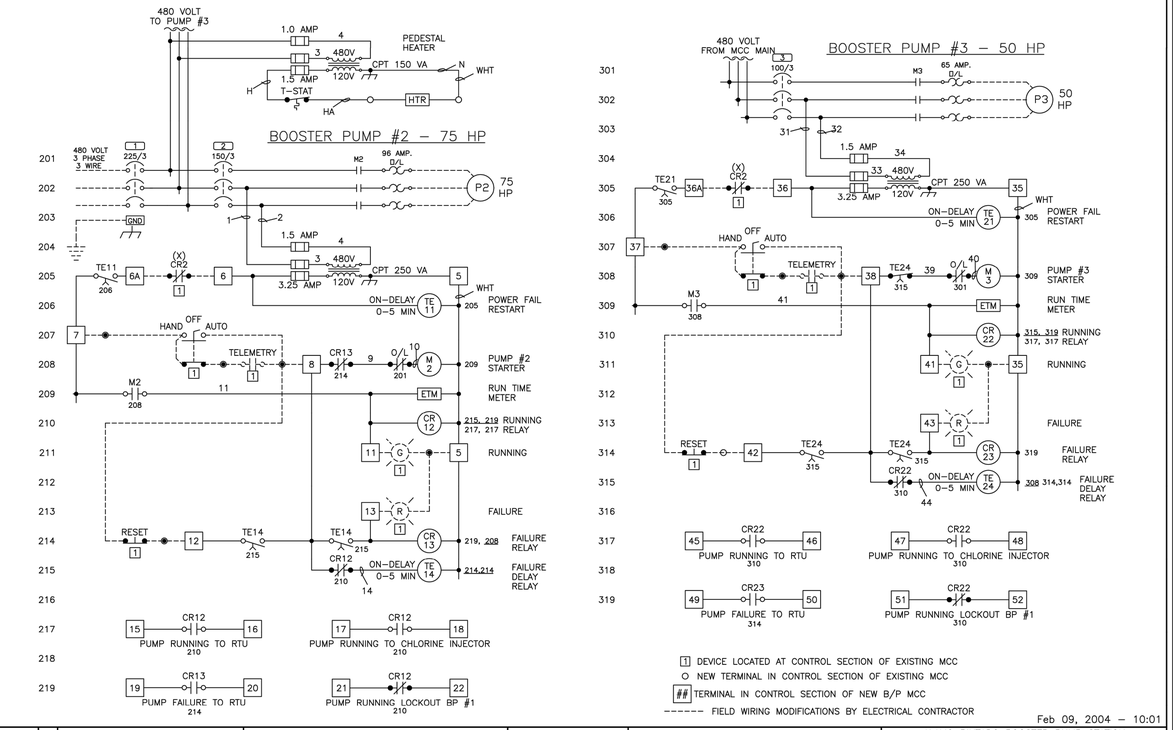
Feb 09, 2004 - 09:47

REV	DATE	BY	DESCRIPTION
1	02-09-04	G G	AS BUILT

TESCO CONTROLS, INC.
3434 52ND AVENUE
SACRAMENTO, CA 95823
(916) 395-8800

ALAMO PINTADO BOOSTER PUMP STATION
SANTA YNEZ RIVER WATER CONSERVATION DISTRICT
BP #2 and BP #3 PEDESTAL DETAILS

DATE	DESIGN BY	DRAWN BY	CHK'D BY	SHEET #	DRAWING #
12/10/03	G G	G G		1 OF	28593-01



[1] DEVICE LOCATED AT CONTROL SECTION OF EXISTING MCC
O NEW TERMINAL IN CONTROL SECTION OF EXISTING MCC
[##] TERMINAL IN CONTROL SECTION OF NEW B/P MCC
------ FIELD WIRING MODIFICATIONS BY ELECTRICAL CONTRACTOR

Feb 09, 2004 - 10:01

REV	DATE	BY	DESCRIPTION
2	02-09-04	G G	AS BUILT
1	12-30-03	G G	REVISED PER ENGINEERS COMMENTS - SHOP RELEASE

TESCO CONTROLS, INC.
(916) 395-8800
3434 52ND AVE
SACRAMENTO, CA 95823

ALAMO PINTADO BOOSTER PUMP STATION
SANTA YNEZ RIVER WATER CONSERVATION DISTRICT
BP #2 and BP #3 WIRING DIAGRAMS

DATE	DESIGN BY	DRAWN BY	CHK'D BY	SHEET #	DRAWING #
12/10/03	G G	G G		2 OF	28593-02

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GARRETT D. GNO
20833
EXP. 9-30-22
ELECTRICAL
STATE OF CALIFORNIA

OTTO ELECTRICAL
OTTO ELECTRICAL, INC.
SAN LUIS OBISPO, CA
GOTTO@OTTOELECTRICAL.COM
805.459.4329

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River Water Conservation District
SANTA YNEZ
Improvement District, No. 1

PROJECT:
SANTA YNEZ RIVER WATER CONSERVATION DISTRICT IMPROVEMENT DISTRICT NO.1
MOTOR CONTROL CENTER AND SERVICE UPGRADES

SHEET TITLE:
ALAMO PINTADO BPS - EXISTING PUMP 2 & 3 CONTROL PANEL

PRINT DATE:	8/3/2021
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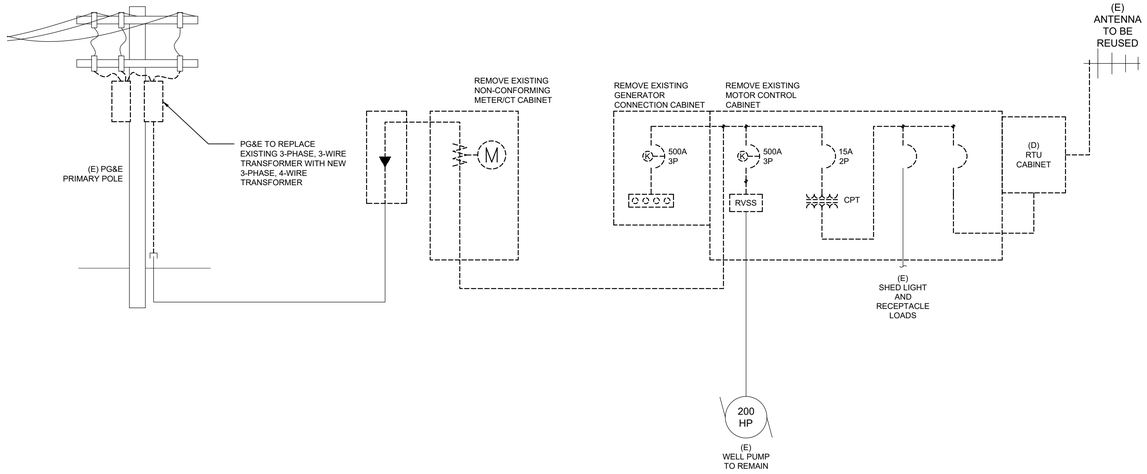
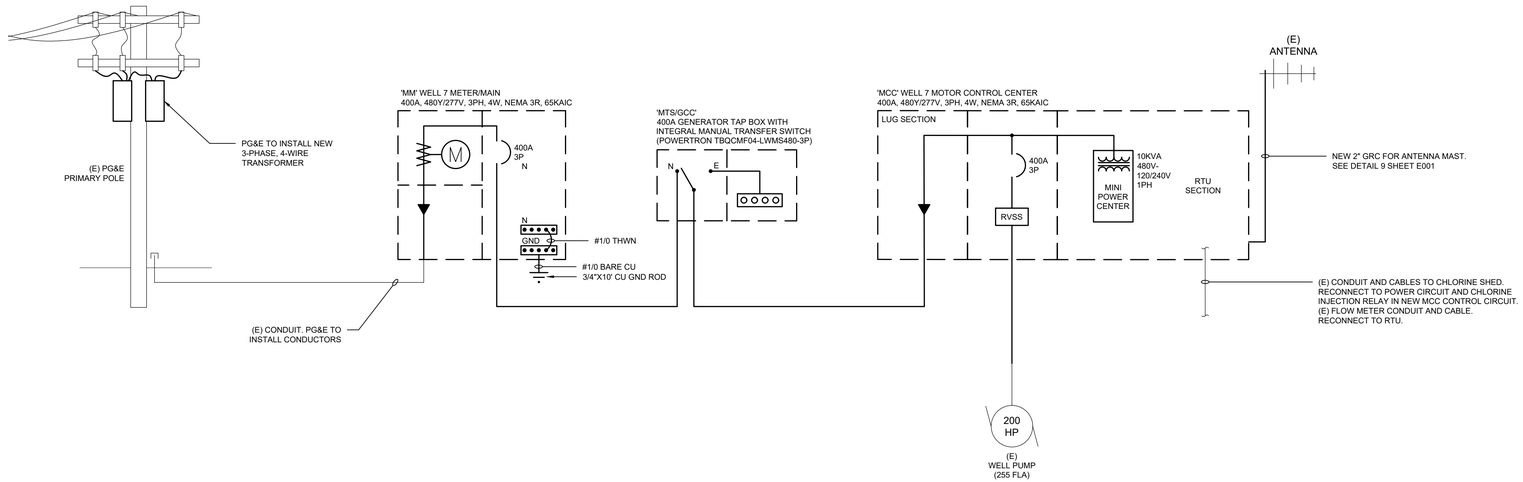


WELL 7 - EXISTING/DEMO SINGLE LINE DIAGRAM



WELL 7 - PROPOSED SINGLE LINE DIAGRAM

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GARRETT D. OTTO
20833
EXP. 9-30-22
ELECTRICAL
STATE OF CALIFORNIA

OTTO ELECTRICAL
OTTO ELECTRICAL, INC.
SAN LUIS OBISPO, CA
GOTTO@OTTOELECTRICAL.COM
805.459.4329

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River Water Conservation District SANTA YNEZ Improvement District, No. 1

PROJECT:

SANTA YNEZ RIVER WATER CONSERVATION DISTRICT IMPROVEMENT DISTRICT NO.1

MOTOR CONTROL CENTER AND SERVICE UPGRADES

SHEET TITLE:

WELL 7 - SINGLE LINE DIAGRAM

PRINT DATE:	8/3/2021
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E300

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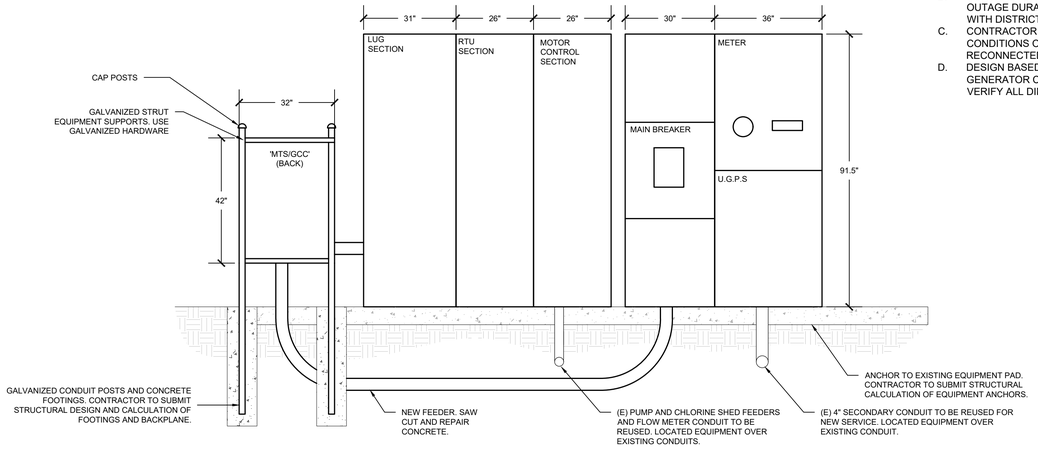
GENERAL SHEET NOTES

A. COORDINATE POWER OUTAGES, ELECTRIC SERVICE CONDUCTOR REMOVAL, SERVICE EQUIPMENT REMOVAL WITH DISTRICT AND PG&E AT LEAST 1 WEEK PRIOR.
B. CONTRACTOR SHALL STAGE EQUIPMENT TO MINIMIZE OUTAGE. OUTAGE DURATION SHALL BE CLOSELY COORDINATED AND PLANNED WITH DISTRICT.
C. CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING AS-FOUND CONDITIONS OF SCADA SYSTEM CONNECTIONS TO ENSURE SYSTEM IS RECONNECTED TO PROPER TERMINALS.
D. DESIGN BASED ON EATON SWITCHBOARD AND MCC, AND POWERTRON GENERATOR CONNECTION CABINET. CONTRACTOR RESPONSIBLE TO VERIFY ALL DIMENSIONS.

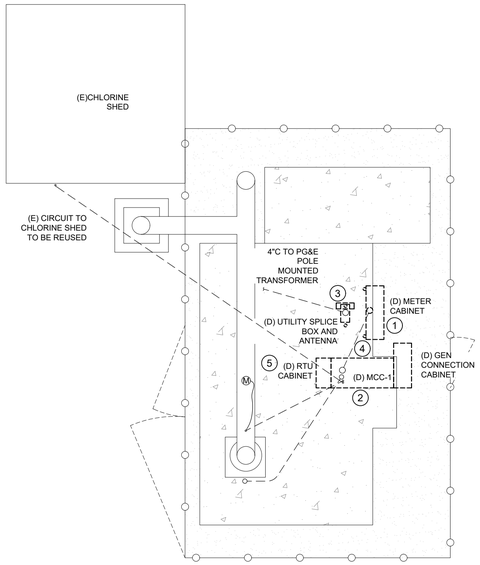


WELL 7 - EAST ELEVATION

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

ⓧ DEMOLITION NOTES

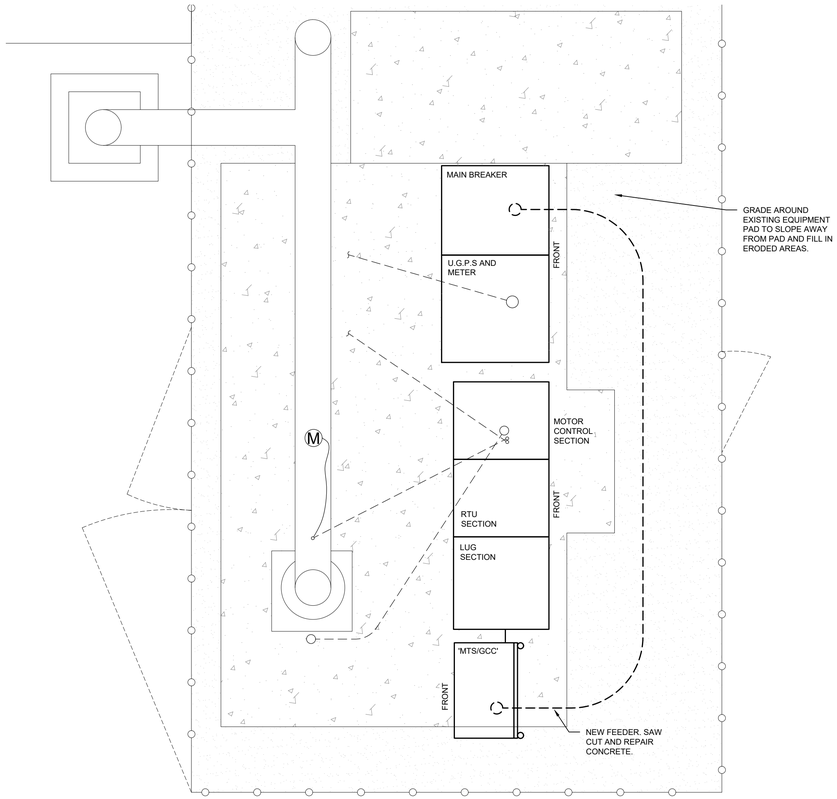
1. DISCONNECT AND REMOVE EXISTING ELECTRIC UTILITY SPLICE AND METER CABINETS.
2. REMOVE EXISTING MOTOR CONTROL CABINET. EXISTING PUMP FEEDER, CHLORINE SHED FEEDERS, AND SIGNAL CONDUITS/CABLES TO BE REUSED.
3. EXISTING PULL BOX AND SIGNAL CABLES TO BE REMOVED. SEAL AND CAP CONDUIT.
4. CUT, SEAL, AND CAP EXISTING FEEDER CONDUIT. REPAIR CONCRETE EQUIPMENT PAD EDGE.
5. RTU BACKBOARD, PLC, TERMINAL BLOCKS, AND BATTERIES TO BE RELOACTED INTO NEW EQUIPMENT RTU SECTION. REMOVE EXISTING RTU CABINET.



WELL 7 - EXISTING/DEMO PLAN

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

NORTH



WELL 7 - PROPOSED SITE PLAN

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

NORTH

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GARRETT D. GNO
20833
EXP. 9-30-22
ELECTRICAL
STATE OF CALIFORNIA

OTTO ELECTRICAL
OTTO ELECTRICAL, INC.
SAN LUIS OBISPO, CA
GOTTO@OTTOELECTRICAL.COM
805.459.4329

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SANTA YNEZ
Improvement District, No. 1

PROJECT:

SANTA YNEZ RIVER WATER CONSERVATION DISTRICT IMPROVEMENT DISTRICT NO.1

MOTOR CONTROL CENTER AND SERVICE UPGRADES

SHEET TITLE:

WELL 7 - SITE ELECTRICAL

PRINT DATE:	8/3/2021
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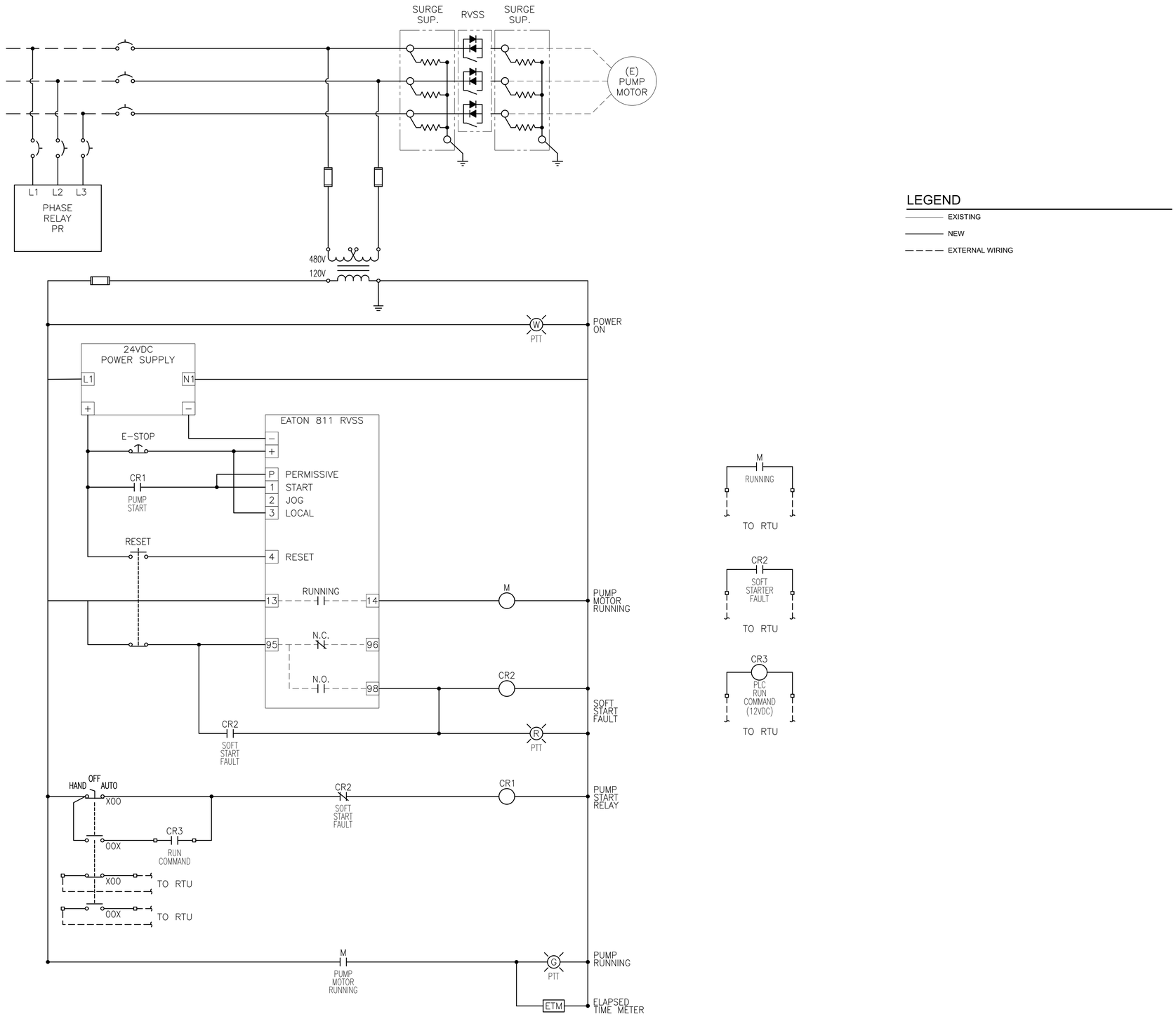

LEGEND

- EXISTING
- NEW
- EXTERNAL WIRING

WELL 7 - PUMP STARTER CONTROL SCHEMATIC

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GARRETT D. OTTO
20833
EXP. 9-30-22
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STATE OF CALIFORNIA

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OTTO ELECTRICAL, INC.
SAN LUIS OBISPO, CA
GOTTO@OTTOELECTRICAL.COM
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PROJECT:

SANTA YNEZ RIVER WATER CONSERVATION DISTRICT IMPROVEMENT DISTRICT NO.1

MOTOR CONTROL CENTER AND SERVICE UPGRADES

SHEET TITLE:

WELL 7 - PUMP CONTROL SCHEMATIC

PRINT DATE:	8/3/2021
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SCALE:	AS NOTED
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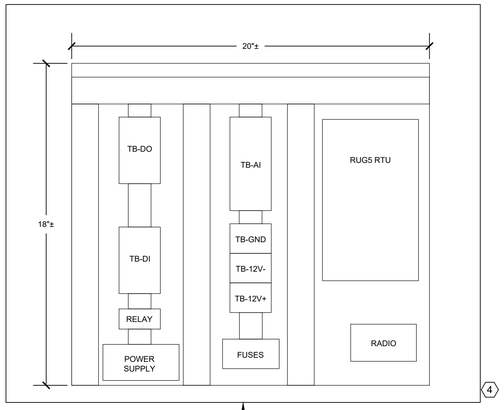


CONTROL NOTES

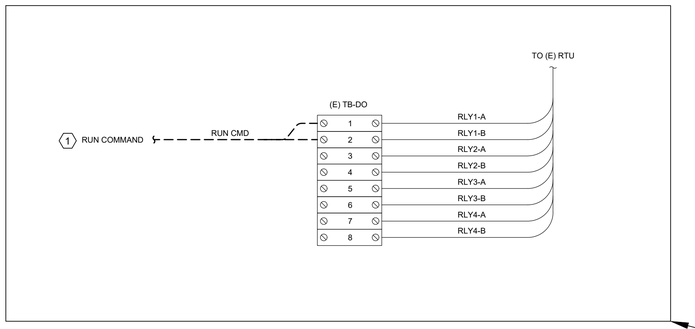
A. PROVIDE DRY CONTACTS FOR ALL DIGITAL INPUTS (12VDC RATED). REFER TO CONTROL SCHEMATIC.
B. PROVIDE 12VDC COIL RELAY FOR ALL DIGITAL OUTPUTS WITHIN MCC CONTROL CIRCUIT. REFER TO CONTROL SCHEMATIC.

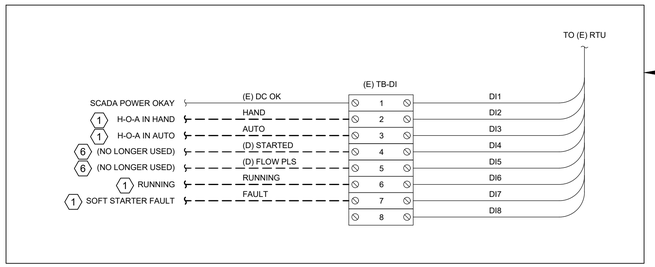
ⓧ REFERENCE NOTES

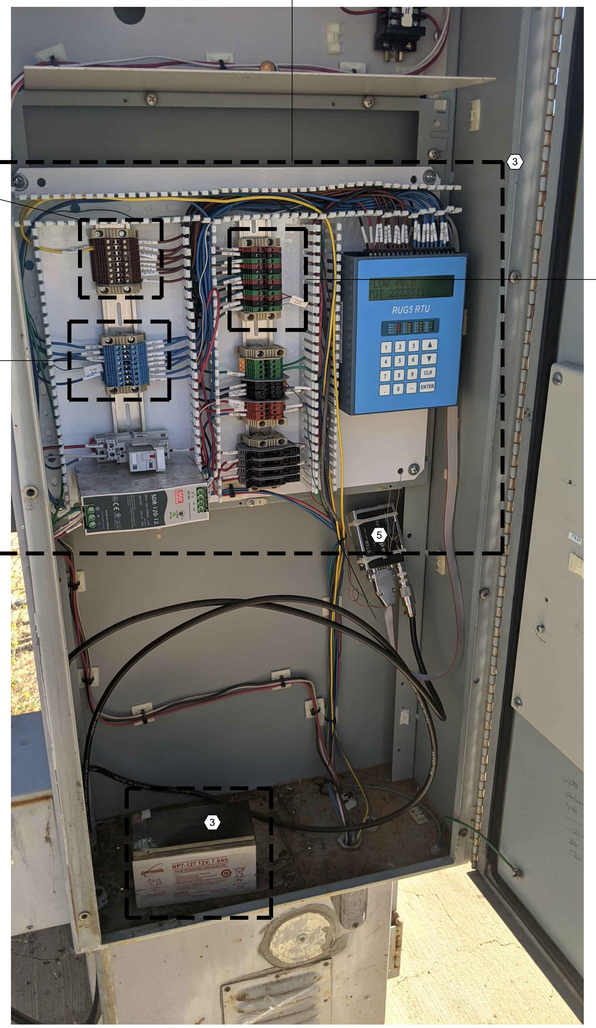
1. ROUTE CONTROL WIRES TO PUMP CONTROL CIRCUIT. (CONTRACTOR)
2. EXTEND EXISTING STATUS/SIGNAL FROM FIELD BACK TO ORIGINAL TERMINAL POINT. CONTRACTOR TO INSTALL WIRES AND CONFIRM TERMINATIONS WITH INTEGRATOR.
3. RELOCATE RTU AND BACKBOARD INTO NEW SCADA ENCLOSURE SECTION OF MCC. (CONTRACTOR)
4. INTEGRATOR SHALL DEVELOP AS-BUILT PANEL AND I/O DRAWINGS FOR RTU. (INTEGRATOR)
5. SECURE RADIO TO BACKBOARD. ROUTE NEW ANTENNA CABLE BETWEEN RADIO AND NEW ANTENNA LOCATION. EXISTING ANTENNA TO BE RE-USED. (CONTRACTOR).
6. CONTROL/STATUS POINT NO LONGER USED. PROGRAM PLC ACCORDINGLY. (INTEGRATOR).
7. PROVIDE NEW BATTERY IN NEW CONTROLS SECTION OF MCC. (INTEGRATOR)

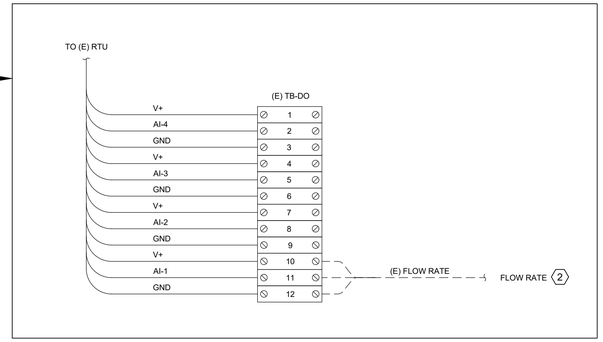
LEGEND

- EXISTING
- NEW
- EXTERNAL WIRING
- REMOVED WIRING









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OTTO ELECTRICAL, INC.
SAN LUIS OBISPO, CA
GOTTO@OTTOELECTRICAL.COM
805.459.4329

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River Water Conservation District
SANTA YNEZ
Improvement District, No. 1

PROJECT:

SANTA YNEZ RIVER WATER CONSERVATION DISTRICT IMPROVEMENT DISTRICT NO.1

MOTOR CONTROL CENTER AND SERVICE UPGRADES

SHEET TITLE:

WELL 7 - RTU MODIFICATIONS

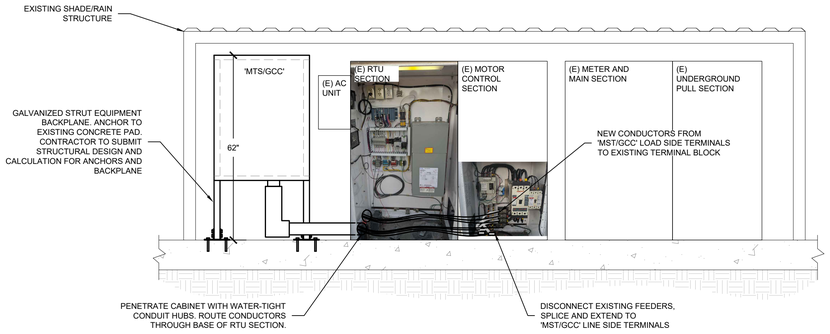
PRINT DATE:	8/3/2021
DRWN BY:	GNO
CHKD BY:	GNO
SCALE:	AS NOTED
JOB NO:	20-030

SHEET NO:

E303

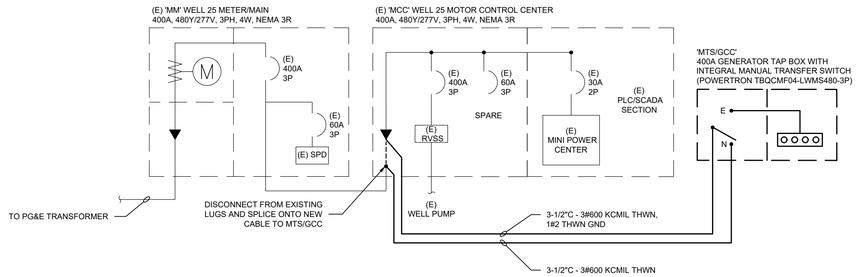
8/3/2021 3:55 PM

G:\Shared drives\Projects\2020\20-030\2-DESIGN\CAD\20-030 - SCHEM

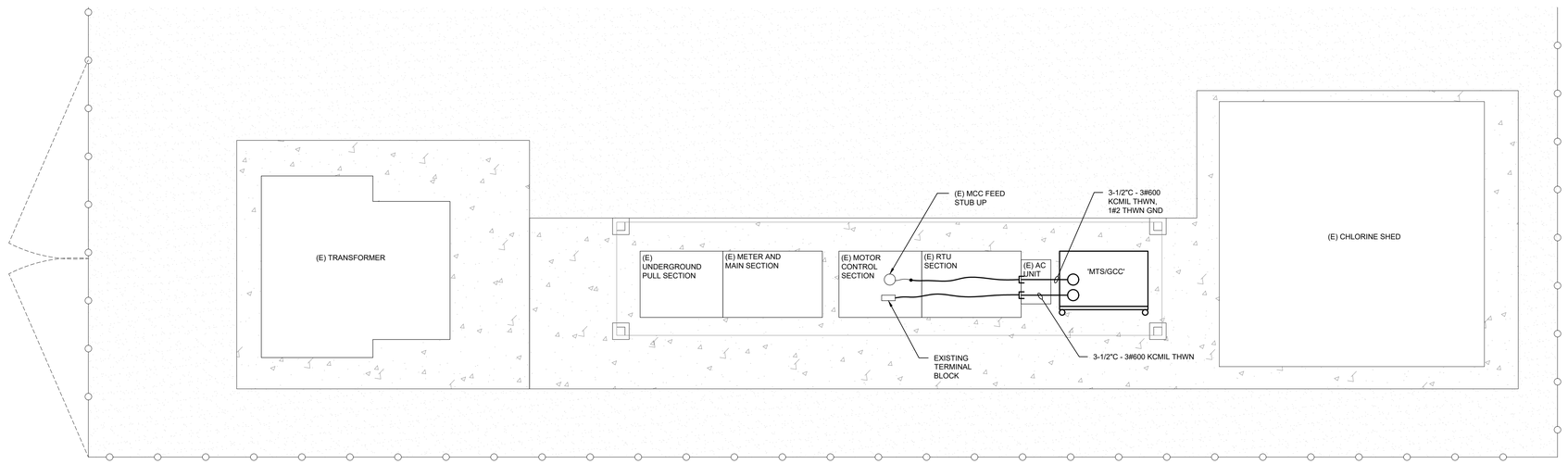


WELL 25 - ELEVATION DETAIL

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



WELL 25 - PROPOSED SINGLE LINE DIAGRAM



WELL 25 - PROPOSED SITE PLAN

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

REVISIONS:

REV:	DATE	DESCRIPTION
0	8/3/2021	ISSUED FOR BID

STAMP:

REGISTERED PROFESSIONAL ENGINEER
GARRETT D. OTTO
20833
EXP. 9-30-22
ELECTRICAL
STATE OF CALIFORNIA

OTTO ELECTRICAL
OTTO ELECTRICAL, INC.
SAN LUIS OBISPO, CA
GOTTO@OTTOELECTRICAL.COM
805.459.4329

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River Water Conservation District
SANTA YNEZ
Improvement District, No. 1

PROJECT:

SANTA YNEZ RIVER WATER CONSERVATION DISTRICT IMPROVEMENT DISTRICT NO.1

MOTOR CONTROL CENTER AND SERVICE UPGRADES

SHEET TITLE:

WELL 25 - SLD AND SITE ELECTRICAL

PRINT DATE:	8/3/2021
DRWN BY:	GNO
CHKD BY:	GNO
SCALE:	AS NOTED
JOB NO:	20-030

SHEET NO:

E400

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