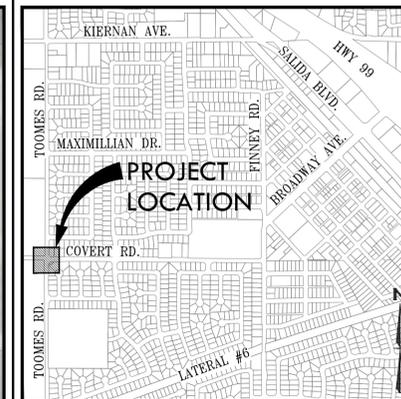
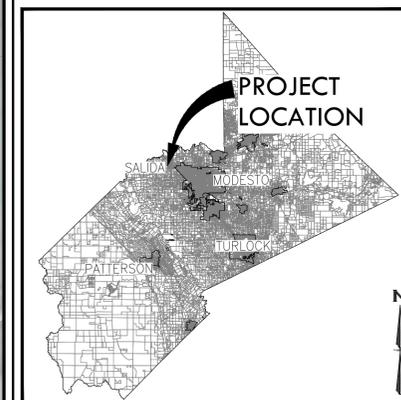


SALIDA SANITARY DISTRICT COVERT LIFT STATION

SALIDA, CALIFORNIA



LOCATION MAP SCALE: NTS



VICINITY MAP SCALE: NTS

DRAWING INDEX

SHEET	DWG. NAME
1	G.01 COVER SHEET
2	G.02 GENERAL NOTES, ABBREVIATIONS, LEGEND AND DRAWING INDEX
3	C.01 DEMOLITION AND SITE PLAN
4	C.02 PUMP STATION PLAN AND SECTIONS
5	C.03 PUMP STATION DETAILS
6	C.04 STANDARD DETAILS
7	C.05 STANDARD DETAILS
8	E1 GENERAL NOTES
9	E2 ELECTRICAL SITE PLAN AND FEEDER SCHEDULE
10	E3 ONE LINE DIAGRAM AND PANEL SCHEDULE
11	E4 CONTROLS
12	E5 CONTROLS
13	E6 RTU/SCADA CONTROLS

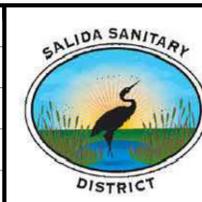
BLACKWATER
CONSULTING ENGINEERS
602 LYELL DRIVE, MODESTO, CA 95356 • PH: 209.322.1820

811
Know what's below.
Call before you dig.

REGISTERED PROFESSIONAL ENGINEER
A.J.J. VERBURG
No. C73020
12/31/24
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	APP

PROJECT NO.
J21346
DESIGNED BY
PJS / KCW
DRAWN BY
KCW
CHECKED BY
AJV
DATE
JUNE 2023



SALIDA SANITARY DISTRICT
COVERT LIFT STATION

COVER SHEET

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAWING NO.
G.01

SHEET NO.
1 OF 13

CONTACTS

ENGINEER:
BLACK WATER CONSULTING ENGINEERS, INC.
602 LYELL DRIVE
MODESTO, CA 95350
ENGINEER: AJA VERBURG, P.E.
T:209.629.9220

ELECTRICAL ENGINEER:
HCS ENGINEERING, INC.
4512 FEATHER RIVER DR #F
STOCKTON, CA, 95219
PRINCIPAL ELECTRICAL ENGINEER: RICHARD SMITH, P.E.
T:209.478.8270

DISTRICT:
SALIDA SANITARY DISTRICT
6200 PIRRONE ROAD
SALIDA, CA, 95368
DISTRICT MANAGER: ANTONIO TOVAR, P.E.
T:209.545.4987

GENERAL NOTES

- CONTRACTOR SHALL CONSIDER THE INFORMATION PRESENTED AS "GENERAL NOTES" AS PART OF THE CONSTRUCTION DOCUMENTS.
- PRIOR TO ANY WORK BEING PERFORMED, THE CONTRACTOR SHALL CONTACT THE APPROPRIATE REGULATORY AGENCIES FOR A PRE-CONSTRUCTION CONFERENCE. CONTRACTOR SHALL ALSO NOTIFY THE SALIDA SANITARY DISTRICT AND ENGINEER SEVENTY-TWO (72) HOURS PRIOR TO MEETING DATE.
- ENGINEER OF RECORD MUST APPROVE ANY SUBSTITUTIONS. IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS BETWEEN THE DRAWINGS AND OTHER DETAILS; OR EXISTING CONDITIONS NOT SHOWN OR DIFFERENT FROM THOSE SHOWN ON THE DRAWINGS PRIOR TO COMMENCEMENT OF WORK. MATERIALS PROCURED PRIOR TO RESOLUTION OF CONFLICTS SHALL BE AT THE CONTRACTOR'S RISK.
- ALL WORK IS NEW UNLESS INDICATED AS EXISTING.
- THE CONTRACTOR SHALL EXERCISE DUE CAUTION AND SHALL CAREFULLY PRESERVE BENCHMARKS, REFERENCE POINTS AND ALL SURVEY STAKES, AND SHALL BEAR ALL EXPENSE FOR REPLACEMENT AND/OR ERRORS CAUSED BY THEIR UNNECESSARY LOSS OR DISTURBANCE. ALL STREET MONUMENTS, LOT CORNERS, BENCHMARKS, AND OTHER PERMANENT PIPE MONUMENTS DISTURBED DURING THE PROCESS OF CONSTRUCTION SHALL BE REPLACED BY A LICENSED CIVIL ENGINEER OR SURVEYOR PRIOR TO ACCEPTANCE OF THE IMPROVEMENTS BY THE STANISLAUS COUNTY.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE SALIDA SANITARY DISTRICT AND/OR THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THE PROJECT.
- THE DRAWINGS AND SPECIFICATIONS REPRESENT THE COMPLETED PROJECT, AND DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE CONSTRUCTION AND ALL ADJACENT PROPERTIES DURING CONSTRUCTION.
- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- THE CONTRACTOR AGREES TO BE RESPONSIBLE FOR:
 - CLEANING THE JOB SITE AT THE END OF EACH PHASE OF WORK.
 - REMOVING AND DISPOSING OF ALL TRASH, SCRAP AND UNUSED MATERIAL IN A TIMELY MANNER.
 - MAINTAINING THE SITE IN A NEAT, SAFE AND ORDERLY MANNER AT ALL TIMES.
 - KEEPING MATERIALS, EQUIPMENT AND TRASH OUT OF THE WAY OF OTHER CONTRACTORS SO AS TO NOT DELAY THE JOB.
 - PROVIDING THEIR OWN SAFETY, TRAFFIC CONTROL PERMITS, RETESTING AND REINSPECTION.

- PROVIDING ALL WATER, POWER, SANITARY FACILITIES AND TELEPHONE SERVICES AS REQUIRED FOR THE CONTRACTOR'S USE DURING CONSTRUCTION.
 - SCHEDULING INSPECTION AND TESTING OF ALL FACILITIES CONSTRUCTED UNDER THIS CONTRACT. ALL TESTING SHALL CONFORM TO APPLICABLE RULES AND REGULATIONS.
 - FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER.
 - THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN, OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY IN ACCORDANCE WITH THE CURRENT ISSUE OF "MANUAL OF TRAFFIC CONTROLS, WARNING SIGNS, LIGHTS, AND DEVICES FOR USE IN PERFORMANCE OF WORK UPON HIGHWAY" PUBLISHED BY THE STATE OF CALIFORNIA BUSINESS AND TRANSPORTATION AGENCY.
- THE CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL-SIZE RECORD DRAWINGS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL PIPING AND CONDUITS, STRUCTURES AND OTHER FACILITIES. RECORD DRAWINGS SHALL REFLECT CHANGE ORDERS, ACCOMMODATIONS AND ADJUSTMENTS TO ALL IMPROVEMENTS CONSTRUCTED. WHERE NECESSARY, SUPPLEMENTAL DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR.
 - PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL DELIVER TO THE ENGINEER, ONE SET OF NEATLY MARKED RECORD DRAWINGS SHOWING THE INFORMATION REQUIRED ABOVE. RECORD DRAWINGS SET SHALL BE CURRENT WITH ALL CHANGES AND DEVIATIONS REDLINED AS A PRECONDITION TO THE FINAL PAYMENT APPROVAL AND/OR FINAL ACCEPTANCE.
 - ALL FERROUS METALS THAT ARE NOT GALVANIZED SHALL BE PREPARED, PRIMED, AND EPOXY COATED. THE PRIMER AND COATING SHALL BE OF THE SAME MANUFACTURER AND APPLIED AS A SYSTEM. THE COATING SYSTEM AND COLOR SHALL BE APPROVED BY THE ENGINEER AND THE OWNER PRIOR TO APPLICATION.
 - THE INFORMATION SHOWN ON THE PLANS WITH REGARD TO THE EXISTING UTILITIES AND/OR IMPROVEMENTS WAS DERIVED FROM FIELD INVESTIGATIONS AND/OR RECORD INFORMATION. THE ENGINEER DOES NOT GUARANTEE THESE LOCATIONS TO BE EITHER TRUE OR EXACT. PRIOR TO CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING IMPROVEMENTS AND TO EXPOSE UNDERGROUND UTILITIES RELATED TO THE PROJECT; INCLUDING BUT NOT LIMITED TO SEWER, STORM DRAIN, WATER, IRRIGATION, GAS, ELECTRICAL, ETC. AND SHALL NOTIFY THE ENGINEER AND OWNER IN WRITING FORTY-EIGHT (48) HOURS IN ADVANCE OF EXPOSING THE UTILITIES SO THAT THE EXACT LOCATION AND ELEVATION CAN BE VERIFIED AND DOCUMENTED. IF LOCATION AND/OR ELEVATION DIFFERS FROM THAT SHOWN ON THE DESIGN PLANS, PROVISIONS TO ACCOMMODATE NEW LOCATION/ELEVATION MUST BE MADE PRIOR TO CONSTRUCTION.
 - WE CALL YOUR ATTENTION TO TITLE 8 CALIFORNIA ADMINISTRATION CODE SECTION 1540 (A) (1) OF THE CONSTRUCTION SAFETY ORDERS ISSUED BY THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD PURSUANT TO THE CALIFORNIA OCCUPATIONS SAFETY AND HEALTH ACT OF 1973 AS AMENDED WHICH STATES: (1) PRIOR TO OPENING AN EXCAVATION EFFORT SHALL BE MADE TO DETERMINE WHETHER UNDERGROUND INSTALLATIONS; I.E. SEWER, WATER, FUEL, ELECTRICAL LINES, ETC., WILL BE ENCOUNTERED AND IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN THE EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH INSTALLATION, THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING; AND, WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE EXISTING INSTALLATION. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 48 HOURS PRIOR TO THE START OF ACTUAL EXCAVATION.
 - THE CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKMEN FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF 5' OR MORE. SAID PROTECTION TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT AND THE STATE REGULATIONS.
 - ALL DIMENSIONS SHOWN ON DRAWINGS SHALL BE VERIFIED WITH EXISTING CONDITIONS. DO NOT SCALE DRAWINGS. ENGINEER OF RECORD MUST APPROVE ANY SUBSTITUTIONS. IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS BETWEEN THE DRAWINGS AND OTHER DETAILS; OR EXISTING CONDITIONS NOT SHOWN OR DIFFERENT FROM THOSE SHOWN ON THE DRAWINGS PRIOR TO COMMENCEMENT OF WORK. MATERIALS PROCURED PRIOR TO RESOLUTION OF CONFLICTS SHALL BE AT THE CONTRACTOR'S RISK.
 - ALL MATERIAL AND WORK SHALL CONFORM TO APPLICABLE DESIGN AND CONSTRUCTION STANDARDS. ALL IMPROVEMENTS ARE SUBJECT TO THE INSPECTION AND APPROVAL OF SALIDA SANITARY DISTRICT AND OTHER AGENCIES INVOLVED WITH THIS PROJECT.
 - THE CONTRACTOR SHALL CONTROL DUST AT ALL TIMES. DUST CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND

- SHALL BE IMPLEMENTED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL GUIDELINES (INCLUDING, BUT NOT LIMITED TO THE SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT).
- PIPE FITTINGS, WIRING, AND SUPPORTS SHALL BE PROVIDED TO PRODUCE COMPLETE, OPERABLE SYSTEMS WITH ALL ELEMENTS PROPERLY INTERCONNECTED AS SHOWN TO MEET THE PERFORMANCE INTENT AS INTERPRETED BY THE OWNER. IF A SPECIFIED DIMENSION LOCATION IS NOT SHOWN FOR INTERCONNECTIONS OR SMALLER SYSTEM ELEMENTS, THE CONTRACTOR SHALL SELECT APPROPRIATE LOCATIONS AND SHOW THEM ON THE SHOP DRAWING SUBMITTALS FOR REVIEW.
 - EQUIPMENT AND MATERIALS SHALL BE NEW AND WITHOUT IMPERFECTIONS AND SHALL BE CONSTRUCTED IN A NEAT AND WORKMANLIKE MANNER; ALIGNED, LEVELED, CLEANED AND DUSTED FOR SATISFACTORY OPERATION. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND BEST STANDARD PRACTICES FOR THIS TYPE OF WORK.
 - PRIOR TO REMOVAL OF EXISTING STRUCTURES AND MATERIALS, THE CONTRACTOR SHALL PHOTOGRAPH AND DOCUMENT THE SURROUNDING AREA AND SHALL RESTORE THE AREA TO ITS ORIGINAL STATE OR BETTER.
 - FENCES THAT NEED TO BE REMOVED DURING CONSTRUCTION SHALL BE REMOVED TO THE NEAREST POST BEYOND THE AREA OF CONSTRUCTION. CONTRACTOR SHALL MATCH REPLACEMENT FENCE WITH THE EXISTING FENCE.
 - CONTRACTOR SHALL CONSTRUCT TEMPORARY FENCING WHERE EXISTING FENCE IS REMOVED TO PREVENT UNWANTED CROSSING OF THE PREVIOUS FENCE LINE. ALL UNSUPERVISED EQUIPMENT OR OPEN TRENCHES SHALL ALSO BE FENCED OFF WITH TEMPORARY FENCING.

ABBREVIATIONS

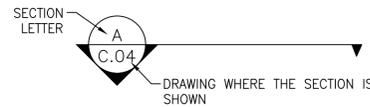
AB	AGGREGATE BASE	SDAD	STORM DRAIN AREA DRAIN
AC	ASPHALT CONCRETE	SDCB	STORM DRAIN CATCH BASIN
A/C	AIR CONDITION	SDMH	STORM DRAIN MANHOLE
ADH	ADHESIVE	SHT	SHEET
ANCH	ANCHOR	SQ.	SQUARE
ARV	AIR RELEASE VALVE	SS	SANITARY SEWER
ATS	AUTOMATIC TRANSFORMER SWITCH	SST	STAINLESS STEEL
AVE	AVENUE	ST	STREET
BFP	BACK FLOW PREVENTER	STD	STANDARD
BLDG.	BUILDING	STL	STEEL
BV	BUTTERFLY VALVE	TEMP	TEMPORARY
BOV	BLOWOUT VALVE	TG	TOP OF GRATE
B.O.	BOTTOM OF	THRU	THROUGH
CIP	CAST IN PLACE	T.O.	TOP OF
CL	CENTER LINE	TYP.	TYPICAL
CLR	CLEAR	UON	UNLESS OTHERWISE NOTED
CMP	CORRUGATED METAL PIPE	V / VERT	VERTICAL
CMU	CONCRETE MASONRY UNIT	VFD	VARIABLE FREQUENTLY DRIVE
CONC OR CC	CONCRETE	W	WATER / WEST
CW	COLD WATER	WM	WATER METER
DIA	DIAMETER	WSP	WELDED STEEL PIPE
DI	DUCTILE IRON		
DIP	DUCTILE IRON PIPE		
DWG.	DRAWING		
E	EARTH / EAST		
EC	EDGE OF CONCRETE		
EF	EACH FACE		
ELEV.	ELEVATION		
ELL	ELBOW		
EP	EDGE OF PAVEMENT		
ESEW	EMERGENCY SHOWER/EYE WASH		
EW	EACH WAY		
EX	EXISTING		
FAA	FEDERAL AVIATION ADMINISTRATION		
FDN	FOUNDATION		
FF	FINISH FLOOR		
FG	FINISH GRADE		
FH	FIRE HYDRANT		
FL	FLOW LINE		
GSP	GALVANIZED STEEL PIPE		
GV	GATE VALVE		
GR	GRATE		
H / HORIZ	HORIZONTAL		
HB	HOSE BIB		
HP	HORSE POUNDS		
HT	HEIGHT		
HW	HOT WATER		
ID	INSIDE DIAMETER		
INV	INVERT		
IRR	IRRIGATION		
LF	LINEAL FEET OR LINEAR FEET		
LT	LEFT		
MAX	MAXIMUM		
MFR	MANUFACTURER		
MG	MILLION GALLONS		
MIN.	MINIMUM		
N	NORTH / NEW		
NIC	NOT INCLUDED		
NC	NORMALLY CLOSED		
NO.	NUMBER		
NTS	NOT TO SCALE		
OC	ON CENTER		
O.D.	OUTSIDE DIAMETER		
OHE	OVERHEAD ELECTRIC		
P.C.	POINT OF CURVATURE		
PG&E	PACIFIC GAS AND ELECTRIC		
PL	PROPERTY LINE		
PSI	POUNDS PER SQUARE INCH		
PT	POINT		
PVC	POLY VINYL CHLORIDE		
R	RADIUS		
RC	RELATIVE COMPACTION		
P.D.	RELATIVE DENSITY		
RD	ROAD		
REINF	REINFORCED		
REQ'D	REQUIRED		
RT	RIGHT		
RTU	REMOTE TERMINAL UNIT		
S	SLOPE / SOUTH		
SCH	SCHEDULE		
SD	STORM DRAIN		

LEGEND

	EXISTING	PROPOSED
ELECTRICAL BOX		N/A
STORM DRAIN AREA DRAIN INLET		N/A
STORM DRAIN CATCH BASIN		N/A
SANITARY SEWER		
SANITARY SEWER FORCE MAIN		
SANITARY SEWER MANHOLE		N/A
PLUG VALVE	N/A	
ELECTRICAL CONDUIT		N/A
EDGE OF PAVEMENT		
CONCRETE		
PAVEMENT		
VALVE BOX	N/A	
ALUMINUM ACCESS DOOR		N/A
FLOW METER BOX	N/A	

SECTION AND DETAIL NUMBERING SYSTEM

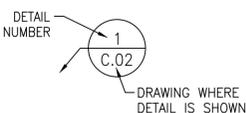
SECTION CUT ON PLAN



SECTION TITLE WITH REFERENCE



DETAIL CALL-OUT



DETAIL TITLE WITH REFERENCE



NOTES

- "VAR" IN THE DRAWING DESIGNATION AREA INDICATES DETAIL APPLIES TO MORE THAN ONE DRAWING.
- " - " IN THE DRAWING AREA INDICATES THAT SECTION OR DETAIL IS SHOWN ON THE SAME DRAWING THAT IT IS CUT FROM OR REFERRED TO.
- WHEN REFERRED TO IN A NOTE: "SEE DET 1/C7.02" "1" IS THE DETAIL NUMBER "C6.03" IS THE DRAWING WHERE DETAIL IS SHOWN.

REV	DATE	DESCRIPTION	APP

PROJECT NO.
J21346
DESIGNED BY
PJS / KCW
DRAWN BY
KCW
CHECKED BY
AJV
DATE
JUNE 2023

SALIDA SANITARY DISTRICT
COVERT LIFT STATION

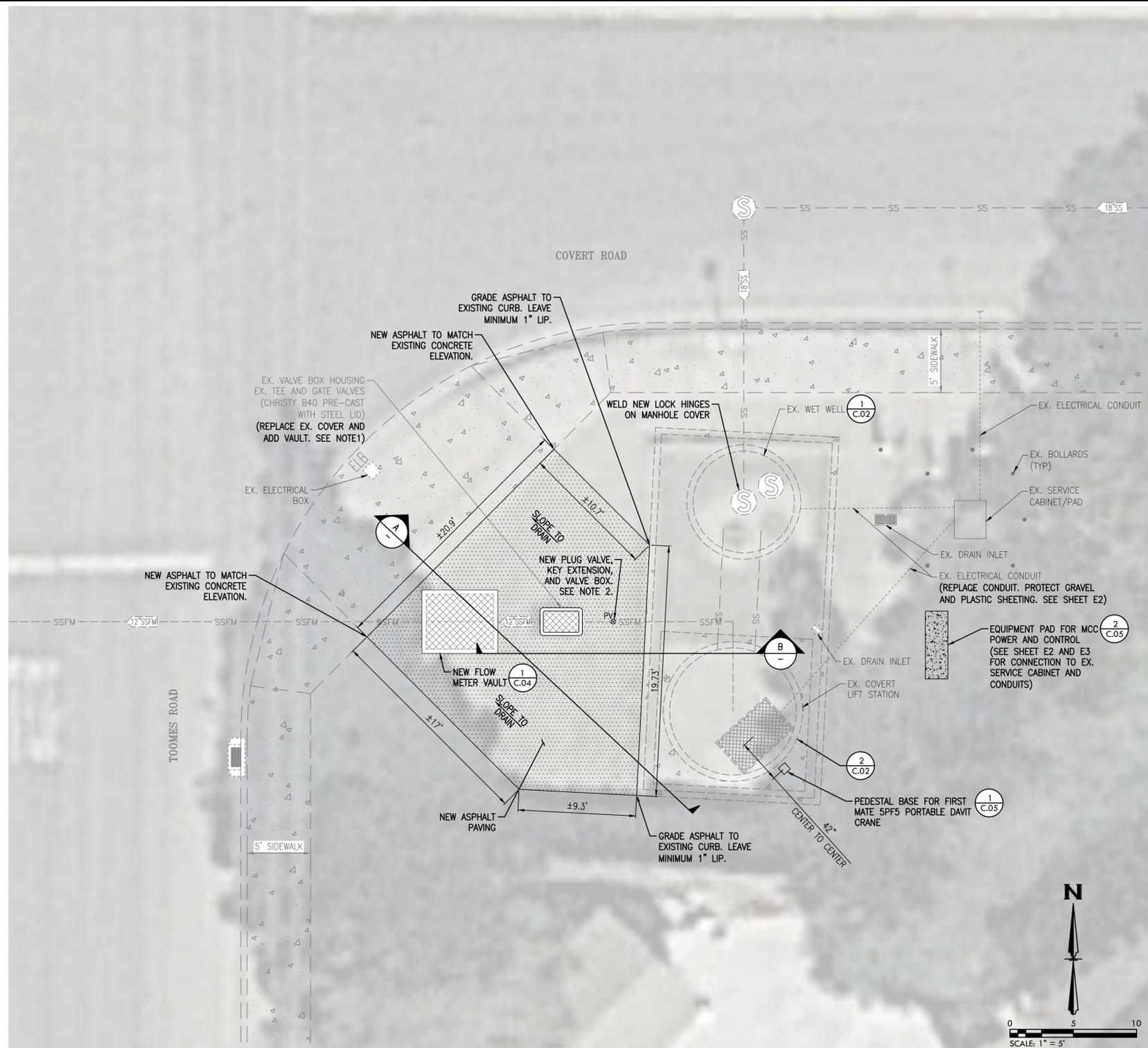
GENERAL NOTES, ABBREVIATIONS,
LEGEND AND DRAWING INDEX

VERIFY SCALES
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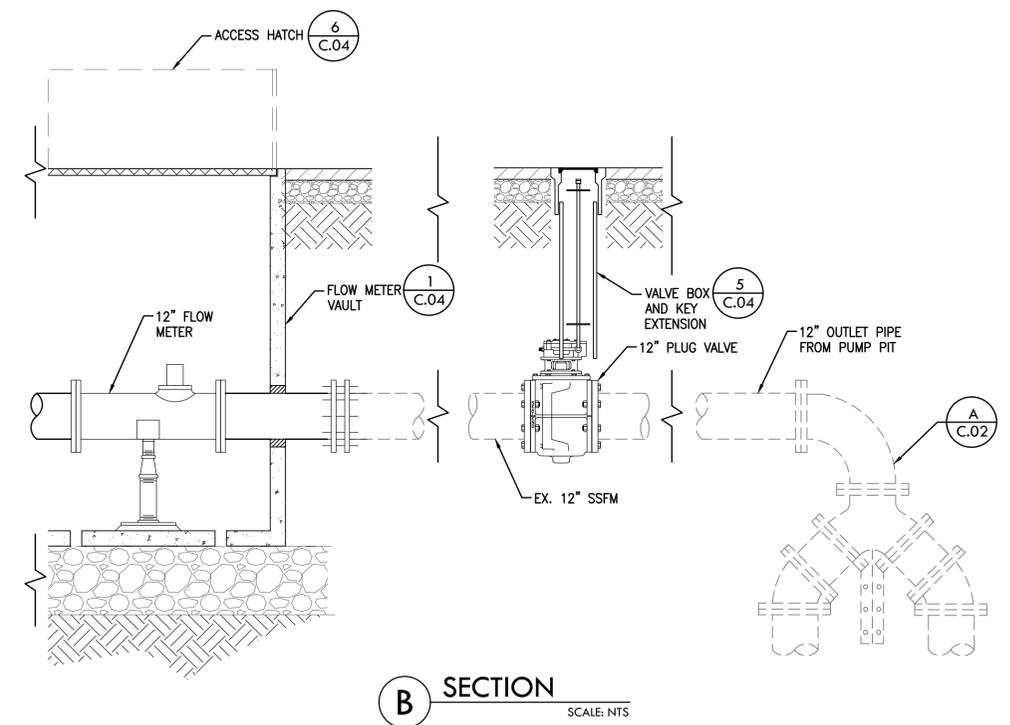
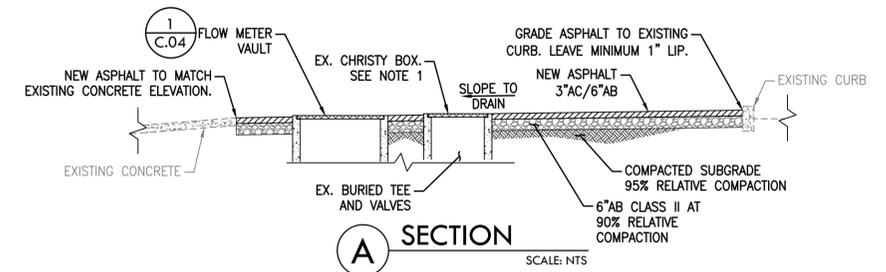
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAWING NO.
G.02

SHEET NO.
2 OF 13



DEMOLITION AND SITE PLAN

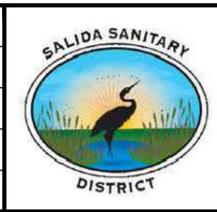


NOTES:

- CONTRACTOR TO REPLACE EXISTING VALVE BOX AND COVER WITH A CHRISTY BOX MODEL B2436 AND COVER OR APPROVED EQUAL.
- INSTALL CHRISTY BOX MODEL G12 OR APPROVED EQUAL AND KEY EXTENSION ON NEW PLUG VALVE PER DETAIL 5/C.04.

REV	DATE	DESCRIPTION	APP

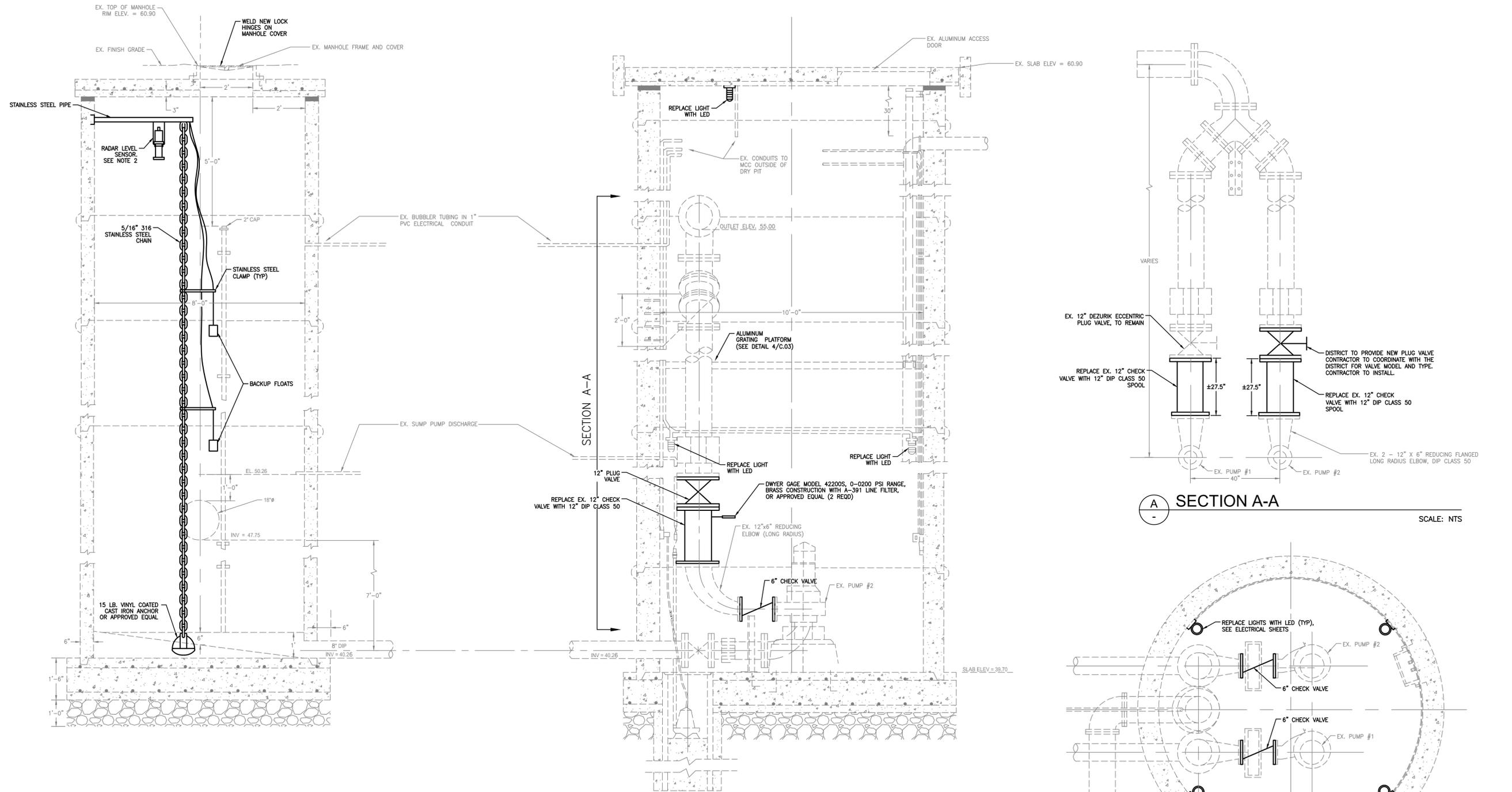
PROJECT NO. J21346
 DESIGNED BY PJS / KCW
 DRAWN BY KCW
 CHECKED BY AJV
 DATE JUNE 2023



SALIDA SANITARY DISTRICT
 COVERT LIFT STATION
 DEMOLITION AND SITE PLAN

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAWING NO. C.01
 SHEET NO. 3 OF 13



- NOTES:
1. ANY EXISTING PENETRATIONS AT THE CONCRETE WALLS OF THE DRY PIT AND WET WELLS THAT ARE ABANDONED MUST BE GROUTED AND SEALED WATERTIGHT. CONTRACTOR TO USE NON-SHRINK GENERAL PURPOSE GROUT FROM QUIKRETE OR APPROVED EQUAL.
 2. RADAR LEVEL TRANSMITTER SHALL BE KHORNE OPTIWAIVE 7500, 80 GHZ FREQUENCY, 4-20 MA OUTPUT WITH CONTROL UNIT INSTALLED MCC OR APPROVED EQUAL.

1 WET WELL SECTION
C.01

SCALE: NTS

2 PUMP PIT SECTION
C.01

SCALE: NTS

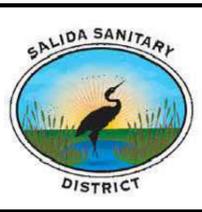
3 PIT PLAN
-

SCALE: NTS



REV	DATE	DESCRIPTION	APP

PROJECT NO. J21346
DESIGNED BY PJS / KCW
DRAWN BY KCW
CHECKED BY AJV
DATE JUNE 2023

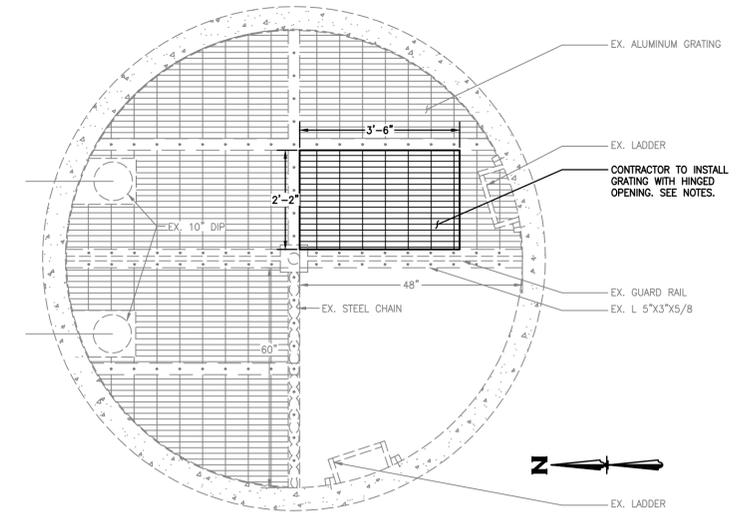


SALIDA SANITARY DISTRICT
COVERT LIFT STATION

PUMP STATION PLAN AND SECTIONS

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAWING NO. C.02
SHEET NO. 4 OF 13

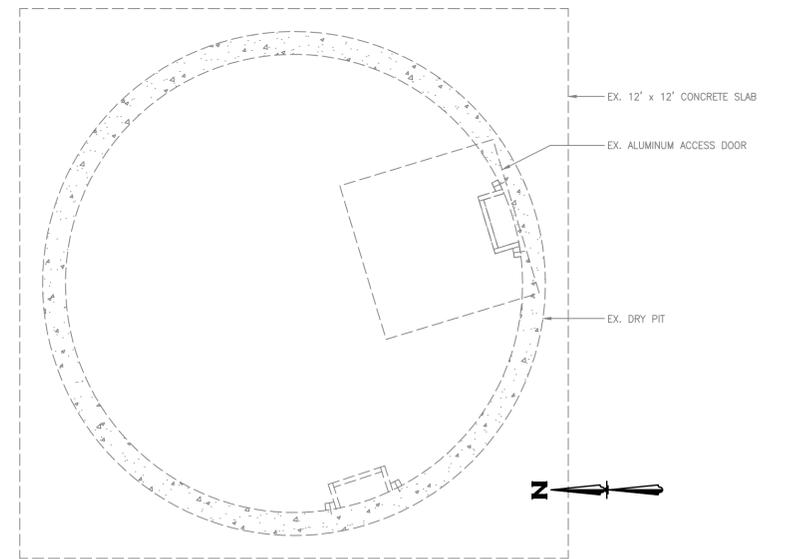


4 LAYOUT PLAN

SCALE: NTS

NOTES:

1. NEW ALUMINUM GRATING SHALL MATCH THE THICKNESS OF THE EXISTING ALUMINUM GRATING.
2. NEW ALUMINUM GRATING SHALL BE PEDESTRIAN RATED (MINIMUM).
3. NEW ALUMINUM GRATING SHALL HAVE HINGES WITH A LOCKING HOLD OPEN ARM.
4. ALUMINUM GRATING SHALL BE ANODIZED.



5 ACCESS DOOR LOCATION

SCALE: NTS

1:21346 COVERT LIFT STATION SANITARY DISTRICT CAD: J21346-01 - COVERT LIFT STATION PUMP TRANSFER/STATION PLAN SET 04 - PUMP DETAILS/ALUMINUM GRATING 06/27/2023 11:53:14 AM BY KEVIN WILLIAMS



REV	DATE	DESCRIPTION	APP

PROJECT NO.
J21346
DESIGNED BY
PJS / KCW
DRAWN BY
KCW
CHECKED BY
AJV
DATE
JUNE 2023



SALIDA SANITARY DISTRICT
COVERT LIFT STATION

PUMP STATION DETAILS

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

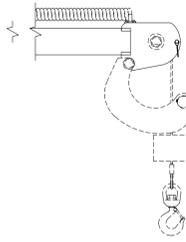
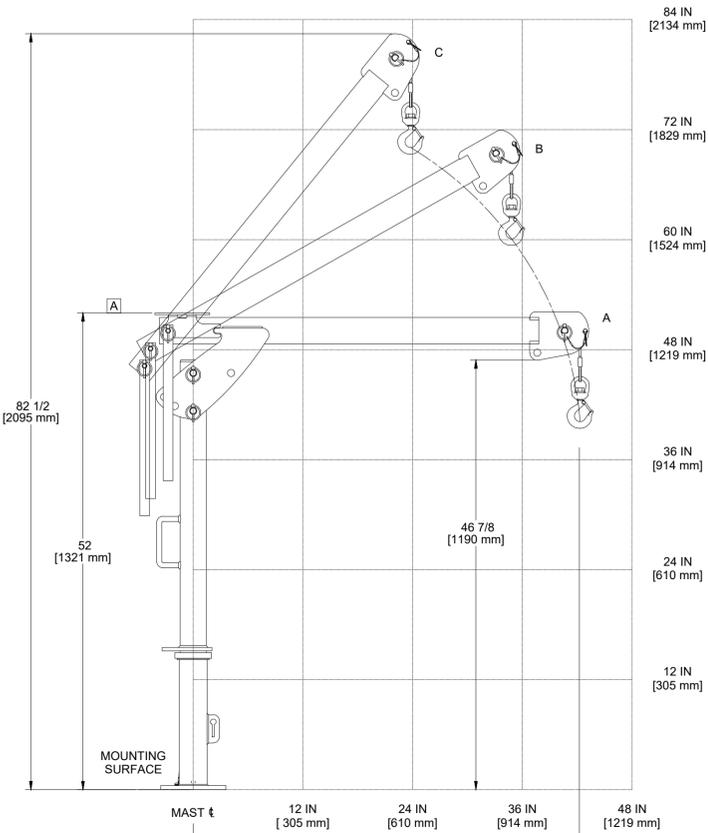
DRAWING NO.
C.03
SHEET NO.
5 OF 13

boom position	hook reach	** hook height	* load rating
A	42 in [1066 mm]	40 in [1016 mm]	500 lbs [226 kg]
B	35 in [889 mm]	60 in [1524 mm]	600 lbs [272 kg]
C	24 in [609 mm]	70 in [1778 mm]	850 lbs [385 kg]

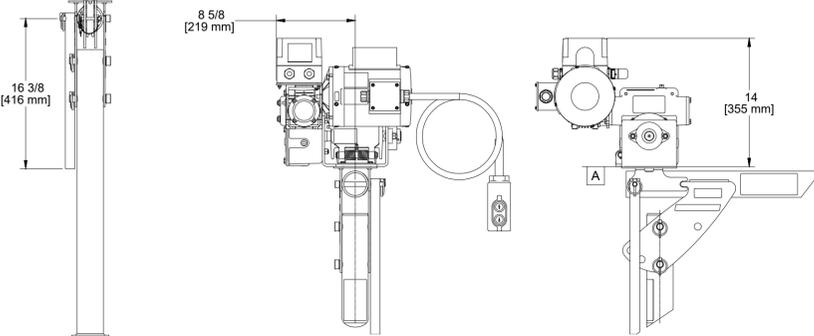
* Crane maximum load rating. Load rating may decrease as layers of rope wind onto the winch drum. Refer to winch specific information on page 2.
 ** Height dimensions shown are with 5BP5 pedestal mounting base.
 ** Subtract 14 in [356 mm] for 5BF5 socket (flush) mounting base.
 ** Add 4-1/2 in [114 mm] for 5BR5 wheel (roll) mounting base.
 ** Add 15 in [381 mm] for optional 5BE5-15 base extension.
 Information is for reference only and subject to change without notice.
 Contact factory for non-standard product requirements.

MAST MOMENT	21690 in-lbs	2451 N-m
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Refer to Thern Crane Overturning Moments & Bolt Reactions (form QA F 68) for suggested bolt sizes and forces for standard Thern mounting bases.

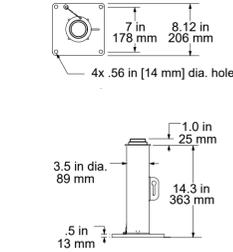


** SUBTRACT 12 INCHES FOR OPTIONAL 5PF5S UPPER TRAVEL LIMIT SWITCH.



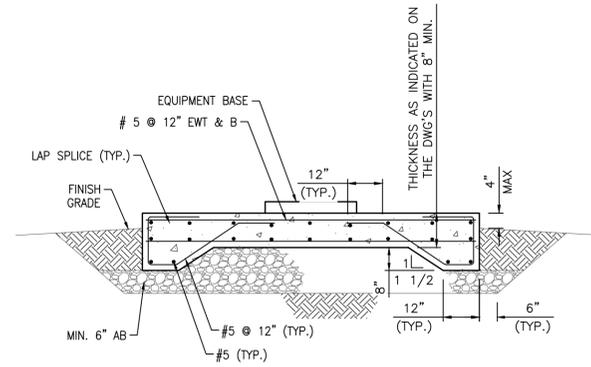
		E2(L)
Power Winch Model		4WP2-K(L)
Gear Ratio		160:1
Motor Horsepower	hp	1.3
Crane Weight	lbs (kg)	130 (59)
* Load Rating - 1st layer lbs (kg) 850 (385)		
* Load Rating - mid drum lbs (kg) 850 (385)		
* Load Rating - full drum lbs (kg) 850 (385)		
Line Speed - 1st layer	fpm (mpm)	8 (2.4)
Line Speed - mid drum	fpm (mpm)	11 (3.4)
Line Speed - full drum	fpm (mpm)	13 (4.0)
Rope Diameters		1/4"
Rope Capacity - full drum	ft (m)	77 (23.4)

* Maximum. Crane Load Rating will also vary with boom position.



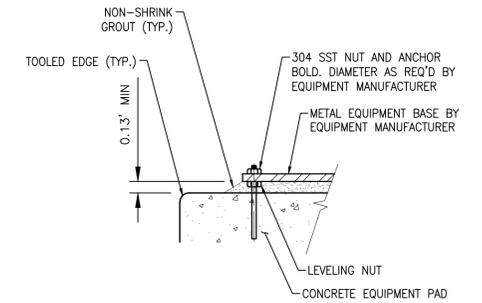
FIRST MATE PEDESTAL BASE

1 FIRST MATE 5PF5 PORTABLE DAVIT CRANE
 C.01 TYPICAL DETAIL SCALE: NTS



NOTES:
 1. SLAB SHALL BE 36"W X 24"L.

2 EQUIPMENT SLAB SCALE: NTS



NOTES:
 1. ANCHOR BOLTS SHALL BE EPOXY SET WITH 4" MINIMUM EMBEDMENT. CONTRACTOR SHALL FIELD LOCATE ANCHOR BOLTS FOR EQUIPMENT TO MATCH THE SIZE AND DIMENSIONS PROVIDED BY THE EQUIPMENT MANUFACTURER.

3 EQUIPMENT ANCHOR SCALE: NTS

1:21346 COVERT LIFT STATION SANITARY DISTRICT CAD (3/24/24) - COVERT LIFT STATION (IMP) PLAN (SHEET) 05 - DETAILS (SCALE: 1/8"=1'-0") 1:21346.dwg BY: KEVIN WULLIAMS



REV	DATE	DESCRIPTION	APP

PROJECT NO.
 J21346
 DESIGNED BY
 PJS / KCW
 DRAWN BY
 KCW
 CHECKED BY
 AJV
 DATE
 JUNE 2023



SALIDA SANITARY DISTRICT
 COVERT LIFT STATION

STANDARD DETAILS

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAWING NO.
 C.05
 SHEET NO.
 7 OF 13

260500 ELECTRICAL WORK FOR COMMON RESULTS:

- ELECTRICAL INSTALLATION SHALL COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, INCLUDING THE FOLLOWING:
TITLE 24, CCR, PART 2, 2019 CBC
TITLE 24, CCR, PART 3, 2019 CEC
TITLE 24, CCR, PART 4, 2019 CMC
TITLE 24, CCR, PART 9, 2019 CFC
TITLE 24, CCR, PART 6, 2019 CALIFORNIA ENERGY CODE
TITLE 24, CCR, PART 11, 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
ALL APPLICABLE LOCAL CODES
- ELECTRICAL CONTRACTOR SHALL VERIFY POWER, TELEPHONE AND CABLE TV SERVICES AT SITE PRIOR TO BIDDING. SERVICES TO CONFORM TO UTILITY COMPANY REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL ARRANGE FOR SERVICE INSTALLATIONS PER UTILITY COMPANY REQUIREMENTS AND PAY ALL CUSTOMER CHARGED SERVICE COSTS. COORDINATE WITH OWNER AND UTILITY COMPANY FOR SERVICE INSTALLATION.
- CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS, LICENSES, ETC. REQUIRED TO CARRY ON AND COMPLETE THE WORK.
- PROVIDE ALL LABOR, MATERIALS, TOOLS, PLANT EQUIPMENT, TRANSPORTATION AND PERFORM ALL OPERATIONS NECESSARY FOR ANY REASONABLE INCIDENTAL TO PROPER EXECUTION AND COMPLETION OF ALL "ELECTRICAL WORK" WHETHER SPECIFICALLY MENTIONED OR NOT; ALL AS INDICATED, SPECIFIED HEREIN, AND/OR IMPLIED THEREBY TO CARRY OUT THE APPARENT INTENT THEREOF.
- ALL MATERIALS SHALL BE NEW AND LISTED WITH THE UNDERWRITERS' LABORATORIES, INC., SHALL MEET THEIR REQUIREMENTS AND SHALL BEAR THEIR LABEL WHEREVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE IS REGULARLY FURNISHED BY THAT AGENCY.
- ELECTRICAL DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH THE SIZE AND LOCATIONS OF EQUIPMENT ARE SHOWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION AT THE SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT AND INSTALLING HIS WORK TO AVOID INTERFERENCE WITH OTHER TRADES.
- WORK SHOWN ON THE DRAWINGS TO BE INSTALLED UNDERGROUND SHALL BE INSTALLED AT LEAST 24" BELOW GRADE UNLESS OTHERWISE NOTED. BACKFILL IN 6" THICK, PROPERLY MOISTENED LAYERS, SOLIDLY PACKED AND IRON TAMPED TO A DENSITY NOT LESS THAN THAT OF ADJACENT, UNDISTURBED EARTH. RESTORE SURFACES, ROADWAYS, WALKS, CURBS, WALLS AND EXISTING UNDERGROUND INSTALLATIONS TO ORIGINAL CONDITION IN AN ACCEPTABLE MANNER.
- ALL ELECTRICAL EQUIPMENT EXPOSED TO THE WEATHER SHALL BE LISTED FOR EXTERIOR USE.
- ALL U.L. LISTED EQUIPMENT SHALL BE INSTALLED AS PER THEIR LISTING OR LABELING.
- IN LOCATIONS WHERE ELECTRICAL EQUIPMENT WOULD BE EXPOSED TO PHYSICAL DAMAGE, ENCLOSURES OR GUARDS SHALL BE SO ARRANGED AND OF SUCH STRENGTH AS TO PREVENT SUCH DAMAGE.
- CONFLICTS BETWEEN SPECIFICATIONS AND PLANS:
a. ANY CONFLICT BETWEEN ELECTRICAL SPECIFICATIONS AND ELECTRICAL PLANS; OR BETWEEN ELECTRICAL PLANS AND PLANS OF ANOTHER DISCIPLINE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND A RESOLUTION RECEIVED PRIOR TO PROCUREMENT OR INSTALLATION OF THE ITEM IN QUESTION.
b. IF THE CONTRACTOR PROCEEDS WITH THE WORK WITHOUT RECEIVING ANY RESOLUTION TO THE CONFLICT HE/SHE DOES SO AT HIS/HER OWN RISK AND SHALL RECTIFY THE WORK TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER OR ENGINEER.

260500.02 SUBMITTALS:

- PROVIDE THE FOLLOWING SUBMITTALS FOR REVIEW AND APPROVAL. EACH SHALL BE SUBMITTED SEPARATELY TO AVOID DELAYS IN THE REVIEW OF ONE SUBMITTAL IN HOLDING UP REVIEW OF THE REMAINDER.
a. SERVICE SWITCHBOARD
b. PANEL BOARDS
c. BASIC ELECTRICAL MATERIALS

260500.03 WORKING CLEARANCES FOR ELECTRICAL SWITCHGEAR:

- PROVIDE WORKING SPACES FOR ELECTRICAL PANELS AND SWITCHGEAR TO COMPLY WITH CEC 110.26.

- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL TRADES INVOLVED TO ENSURE THE CLEARANCES REQUIRED BY ITEM 1 ABOVE ARE PROVIDED.

260526 GROUNDING:

- GROUND AND BOND ALL EQUIPMENT AS REQUIRED BY GOVERNING CODES AND SPECIFICALLY INCLUDING SWITCHBOARD, PANELBOARDS, MOTOR CASES, METAL PIPING SYSTEMS, STRUCTURAL STEEL, ETC.
- PROVIDE GROUND WIRES IN ALL FEEDERS AND BRANCH CIRCUITS, SIZE PER CEC TABLE 250.122
- ALL GROUND WIRES SHALL BE INSULATED GROUND WIRES.

260529 INSTALLATION OF SUPPORT SYSTEMS

- RACEWAYS, CABLE ASSEMBLIES, BOXES, CABINETS, AND FITTINGS SHALL BE SECURELY FASTENED IN PLACE PER CEC ARTICLE 300.11. SUPPORT WIRES THAT DO NOT PROVIDE SECURE SUPPORT SHALL NOT BE PERMITTED AS THE SOLE SUPPORT. SUPPORT WIRES AND ASSOCIATED FITTINGS THAT PROVIDE SECURE SUPPORT AND THAT ARE INSTALLED IN ADDITION TO THE CEILING GRID SUPPORT WIRES SHALL BE PERMITTED AS THE SOLE SUPPORT. WHERE INDEPENDENT SUPPORT WIRE ARE USED, THEY SHALL BE SECURED AT BOTH ENDS. CABLES AND RACEWAYS SHALL NOT BE SUPPORTED BY CEILING GRIDS.
- FURNISH ALL NECESSARY FOUNDATIONS, SUPPORTS, BACKING, ETC., FOR ALL ELECTRICAL ENCLOSURES, CONDUITS AND EQUIPMENT.
- ATTACH ALL BOXES, CABINETS, ETC. TO WOOD WITH WOOD OR LAG SCREWS, TO METAL WITH MACHINE SCREWS OR BOLTS AND TO CONCRETE WITH EXPANSION ANCHORS AND MACHINE SCREWS OR BOLTS.
- RIGID STEEL CONDUIT SHALL BE SUPPORTED AT INTERVALS NOT GREATER THAN 10 FT, ELECTRICAL METALLIC TUBING AT INTERVALS NOT GREATER THAN 5 FT.
- A SUPPORT SHALL BE PROVIDED NOT MORE THAN 3 FT. FROM ANY CHANGE IN DIRECTION. ADDITIONAL SUPPORTS TO THOSE SPECIFIED ABOVE SHALL BE INSTALLED WHERE REQUIRED TO SUIT JOB CONDITIONS AND TO PROVIDE A SECURE INSTALLATION. ALL HANGERS AND SUPPORTS SHALL BE THE

PRODUCTS OF ONE MANUFACTURER.

260533 PULL OR JUNCTION BOXES:

- INSTALL WHERE INDICATED, OR AS REQUIRED BY CODE, PULL BOXES AND JUNCTION BOXES OF SUFFICIENT SIZE AND CAPACITY TO FACILITATE ALL WIRING. BOXES SHALL BE SIZED TO PROPERLY ACCOMMODATE ALL CONDUCTORS ENTERING SAME.
- BOXES SHALL BE OF THE SHAPE AND SIZE BEST SUITED FOR THE PARTICULAR APPLICATION AND SHALL BE SUPPORTED DIRECTLY TO STRUCTURAL MEMBERS, FRAMING OR BLOCKING BY MEANS OF SCREWS, ANCHORS, BOLTS OR EMBEDDED IN MASONRY.

A. SWITCH AND RECEPTACLE BOX SHALL BE ONE PIECE DRAWN OR STAMPED STEEL BOXES MINIMUM SIZE SHALL BE FOUR INCHES (4") SQUARE. BOXES SHALL BE FITTED WITH FLUSH DEVICE COVERS, PLASTER RINGS, OR TILE SWITCH RINGS IN MASONRY IN AREA WHERE EXPOSED WIRING IS PERMISSIBLE, BOXES SHALL BEFITTED WITH SURFACE TYPE COVERS.

B. LIGHTING OUTLETS SHALL BE FOUR INCHES (4")OCTAGON, MINIMUM.

C WEATHERPROOF BOXES SHALL BE APPLETON FD SERIES AND FITTED WITH GASKETED CAST COVERS.

D. BOXES FOR SPECIAL EQUIPMENT SHALL BE SUITABLE FOR THE PARTICULAR EQUIPMENT.

260550. WIRING METHODS: LINE VOLTAGE SYSTEMS (120V AND ABOVE):

- ALL WIRING SHALL BE INSTALLED IN CONDUITS. CONDUITS SHALL BE RUN CONCEALED IN WALLS AND CEILINGS WHERE FEASIBLE. ALL CONDUITS INSTALLED SURFACE ON WALL SHALL BE PAINTED TO MATCH WALL FINISH. MOUNT EXTERIOR CONDUITS ON WALL ON GALVANIZED UNISTRUTS. ALL SURFACE CONDUIT INSTALLATION/ RUNS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.
- ALL CONDUITS RUN WITHIN INTERIOR FINISHED SPACES SUCH AS OFFICES, BREAKROOM, RESTROOM ETC. SHALL BE RUN CONCEALED.
- ALL CONDUITS RUN IN DEDICATED ELECTRICAL AND MECHANICAL ROOMS SHALL BE RUN EXPOSED.

- MINIMUM CONDUIT SIZE SHALL BE 1/2" ABOVE GRADE AND 3/4" UNDERGROUND.

5. MINIMUM ACCEPTABLE CONDUITS ARE:

A. GALVANIZED RIGID STEEL - FOR USE ON:
(1) EXTERIOR WALL SURFACES.

B. GALVANIZED STEEL EMT FOR USE:
(1) CONCEALED IN INDOOR FINISHED SPACES.
(2) EXPOSED INSIDE ELECTRICAL & MECHANICAL ROOMS.

C. LIQUID TIGHT STEEL FLEX:
(1) FOR FINAL CONNECTION TO OUTDOOR EQUIPMENT. LENGTH SHALL NOT EXCEED 36".

D. FLEXIBLE STEEL CONDUIT:
(1) FOR INDOOR FINAL CONNECTION TO RECESSED LIGHT FIXTURES. LENGTH SHALL NOT EXCEED 72".
(2) FOR INDOOR FINAL CONNECTION TO HVAC EQUIPMENT. LENGTH SHALL NOT EXCEED 36".

E. "PVC" SCHEDULE 40:
(1) FOR CONDUITS RUN UNDERGROUND AND FOR UNDER BUILDING SLAB.
(2) CONDUIT STUBUPS THROUGH THE FLOOR OR GRADE SHALL BE IN PVC WRAPPED RIGID STEEL CONDUIT. PVC WRAPPING SHALL EXTEND 6" ABOVE FINISHED FLOOR OR GRADE.
(3) NOT PERMITTED FOR WIRING ABOVE FINISHED FLOOR INSIDE BUILDINGS

F. ALUMINUM CONDUITS OR ALUMINUM FITTINGS ARE NOT APPROVED FOR USE ON THIS PROJECT.

G. ALL CONDUIT FITTINGS SHALL BE MALLEABLE IRON/STEEL.

H. COUPLING:

- EMT COUPLING - APPLETON TWC-CS SERIES
- EMT CONNECTOR - APPLETON TW-CSE SERIES
- FLEX CONDUIT CONNECTOR - T&B "TITE BITE", INSULATED
- LIQUID TIGHT FLEX CONDUIT CONNECTOR - APPLETON "STB" SERIES UP TO 2", "ST" SERIES OVER 2".

I. RIGID STEEL CONDUIT CONNECTED TO BOXES AND CABINETS SHALL BE FITTED WITH TWO LOCKNUTS AND INSULATING BUSHING, OA "A" SERIES. PROVIDE GROUNDING BUSHING OZ "BL" SERIES WHERE LOCKNUTS AND BUSHING IS NOT USED. CONDUITS CONNECTED TO BOXES EXPOSED TO WEATHER/MOISTURE SHALL BE FITTED WITH WATERTIGHT SEALING HUBS OF STEEL OR MALLEABLE IRON WITH SEALING RING AND INSULATED THREAT, T & B 370 SERIES.

J. TYPE NM AND NMC CABLES SHALL NOT BE USED ON THIS PROJECT.

6. CONDUCTORS SHALL BE COPPER CONDUCTORS TYPE THHN/THWN UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.

7. ALL DEVICES, CONDUITS, RACEWAYS AND CABLES SHOWN ARE NEW TO BE PROVIDED UNLESS OTHERWISE NOTED.

260551. INSTALLATION OF RACEWAYS AND FITTINGS

- CONCEAL RACEWAYS WITHIN CEILINGS, WALLS, AND FLOORS EXCEPT WHERE EXPOSED RACEWAYS ARE SPECIFICALLY PERMITTED.
- WHERE CONDUIT IS ALLOWED TO BE EXPOSED, INSTALL THE CONDUIT PARALLEL WITH OR AT RIGHT ANGLES TO STRUCTURAL MEMBERS, WALLS, AND LINES OF THE BUILDING.
- INSTALL WHERE INDICATED, OR AS REQUIRED BY CODE, PULLBOXES AND JUNCTION BOXES OF SUFFICIENT SIZE TO FACILITATE WIRING. BOXES SHALL BE SIZED TO PROPERLY ACCOMMODATE ALL CONDUCTORS ENTERING SAME.
- DO NOT INSTALL CONDUIT OR TUBING WHICH HAS BEEN CRUSHED OR DEFORMED.
- RUN CONDUCTORS OF SAME CIRCUIT IN SAME CONDUIT. RUN CONDUCTORS OF DIFFERENT VOLTAGE SYSTEMS IN SEPARATE CONDUITS.
- INSTALL NO CONDUCTORS UNTIL WORK WHICH MIGHT CAUSE DAMAGE TO SUCH CONDUCTORS OR THE CONDUIT HAS BEEN COMPLETED.
- KEEP ALL CONDUITS AT LEAST SIX INCHES AWAY FROM THE COVERING ON HOT WATER OR

STEAM PIPES.

8. CAP RACEWAY ENDS DURING CONSTRUCTION. CLEAN OR REPLACE CONDUITS IN WHICH WATER OR FOREIGN MATTER HAVE ACCUMULATED, TO THE SATISFACTION OF THE ARCHITECT.

9. CONDUITS SHALL BE SUPPORTED WITH STRAPS, WITH GALVANIZED MALLEABLE SPLIT RING AND ROD FOR INDIVIDUAL RUNS OR WITH KINDORF OR UNISTRUT CHANNEL SUPPORTS FOR MULTIPLE RUNS. DISTANCE BETWEEN SUPPORTS SHALL NOT EXCEED 10 FEET. CONDUITS SHALL BE SUPPORTED INDEPENDENTLY OF ONE ANOTHER.

10. CONDUITS CONNECTED TO BOXES AND CABINETS SHALL BE FITTED WITH TWO LOCKNUTS AND INSULATED BUSHING, OA "A" SERIES.

11. CONDUITS NOT CONNECTED WITH LOCKNUTS AND BUSHINGS SHALL BE FITTED WITH GROUNDING BUSHING, OZ "BL" SERIES, U. L. APPROVED AND BONDED.

12. CONDUIT STRAPS FOR INDIVIDUAL RUNS SHALL BE SECURED BY TOGGLE BOLTS ON HOLLOW MASONRY, EXPANSION ANCHORS ON SOLID CONCRETE OR MASONRY, MACHINE SCREWS OR BOLTS ON METAL SURFACES AND WOOD SCREWS ON WOOD CONSTRUCTION. THE USE OF NAILS TO ANCHOR STRAPS ON WOOD CONSTRUCTION IS PROHIBITED. STRAPS SHALL BE TWO HOLE MALLEABLE IRON OR SNAP-TYPE STEEL WITH RIBBED BACK, GALVANIZED OR CADMIUM PLATED.

13. PLACEMENT OF ALL BOXES SHALL BE GOVERNED BY APPLICABLE ARCHITECTURAL AND STRUCTURAL REQUIREMENTS.

14. CONDUIT FITTINGS: EXCEPT WHERE OTHERWISE NOTED, CONDUIT FITTINGS SHALL BE APPLETON OR APPROVED EQUAL. UNILETS SHALL BE MALLEABLE IRON AND FITTED WITH COVERS AND GASKETS.

15. TELEPHONE AND SIGNAL CONDUIT BENDS WHERE REQUIRED SHALL HAVE A RADIUS OF TEN TIMES THE CONDUIT TRADE SIZE.

16. PROVIDE PULL TAPE IN ALL EMPTY CONDUITS.

260553. NAMEPLATES & IDENTIFICATION:

1. INSTALL ENGRAVED NAMEPLATES FOR EACH PANELBOARD, CABINET, DISCONNECT, ETC. NAMEPLATES SHALL BE SECURELY FASTENED TO THE EQUIPMENT WITH #4 PHILLIPS ROUND HEAD CADMIUM PLATED SELF-TAPPING SCREWS, BRASS BOLT.

2. PROVIDE CIRCUIT LABEL INDICATING PANEL AND CIRCUIT NUMBER ON EACH COVERPLATE FOR EACH RECEPTACLE AND LIGHT SWITCH, MOTION SENSOR SWITCH. SUCH LABEL SHALL BE SELF ADHESIVE WHITE TAPE WITH BLACK LETTERS MADE ON A LABEL MAKER.

3. ALL CONTROLLED RECEPTACLES SHALL BE PERMANENTLY MARKED TO DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES PER CALIFORNIA ENERGY CODE SECTION 130.5(d)(3).

260573. ARC FLASH HAZARDS:

1. PROVIDE WARNING LABEL ON ELECTRICAL EQUIPMENT OF POSSIBLE ARC FLASH HAZARDS PER C.E.C. 110.16.

260800. TESTING:

1. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE FREE FROM SHORT CIRCUITS AND IMPROPER GROUNDS. TEST ALL WIRING AND CONNECTIONS FOR CONTINUITY AND GROUNDS BEFORE ANY FIXTURES OR EQUIPMENT ARE CONNECTED AND WHERE SUCH TESTS INDICATE FAULTY INSULATION OR OTHER DEFECTS, THEY SHALL BE LOCATED, REPAIRED AND RETESTED AT THE CONTRACTOR'S EXPENSE. PROVIDE ALL INSTRUMENTS TO MAKE SUCH TESTS.

2. DEMONSTRATE TO THE OWNER AND THE ENGINEER, THAT THE ENTIRE INSTALLATION IS COMPLETE, IN PROPER OPERATING CONDITION AND THAT THE CONTRACT HAS BEEN PROPERLY AND FULLY EXECUTED.

262200. TRANSFORMERS:

1. TRANSFORMERS SHALL BE DRY TYPE LOW LOSS TRANSFORMERS TYPE AS MANUFACTURED BY SQUARE D OR APPROVED EQUAL THE SAME MANUFACTURER AS THE MAIN SERVICE SWITCHBOARD.

2. TRANSFORMERS SHALL BE THREE PHASE, FOUR WIRE OR SINGLE PHASE, THREE WIRE, WITH KVA RATING AND VOLTAGES AS INDICATED ON THE PLANS. PROVIDE FULL CAPACITY, OFF LOAD PRIMARY FATS.

3. TRANSFORMERS SHALL BE 150 DEGREES C TEMPERATURE RISE ABOVE 40 DEGREE C AMBIENT. INSULATION SHALL BE IN ACCORDANCE WITH THE LATEST NEMA STANDARDS FOR A 220 DEGREE C UL COMPONENT RECOGNIZED INSULATION SYSTEM.

4. TRANSFORMER COILS SHALL BE COPPER OR ALUMINUM AND OF THE CONTINUOUS WIRE WOUND CONSTRUCTION AND SHALL BE IMPREGNATED WITH NON-HYGROSCOPIC THERMO SETTING VARNISH. TRANSFORMER CORES SHALL BE CONSTRUCTED FROM HIGH GRADE, NON-AGING SILICON STEEL WITH MAGNETIC PERMEABILITY AND LOW LOSSES. THE COMPLETE CORE AND COIL ASSEMBLY SHALL BE SUITABLY CLAMPED AND BRACED MECHANICALLY. ADDITIONALLY, PROVIDE AN ELECTROSTATIC SHIELD ENVELOPING THE FULL HEIGHT OF THE WINDING IN CASE OF SHIELDED TRANSFORMERS.

5. TRANSFORMERS SHALL BE IN HEAVY GAUGE, SHEET STEEL, VENTILATED ENCLOSURE PER UL, NEMA AND CEC STANDARDS EXCEPT ONES CALLED OUT ON THE PLANS TO HAVE NON-VENTILATED ENCLOSURES.

6. TRANSFORMER SOUND LEVELS SHALL NOT EXCEED 45dB FOR UNITS UP TO 50KVA AND 50dB FOR UNITS 51 TO 150KVA.

7. TRANSFORMERS SHALL BE SUITABLE FOR FLOOR OR WALL MOUNTING AS INDICATED ON THE DRAWINGS.

8. TRANSFORMERS FOR OUTDOORS INSTALLATION SHALL BE WEATHERPROOF. PROVIDE WEATHER SHIELDS WHERE SO REQUIRED.

9. FASTEN TRANSFORMERS TO BUILDING STRUCTURE (WALL OR FLOOR AS CASE MAY BE) USING EXPANSION ANCHORS. PROVIDE BRACKETS AND ALL MOUNTING HARDWARE AS NEEDED.

10. PROVIDE MINIMUM CLEARANCE FROM WALLS AT THE BACK FOR VENTILATION AIR. SUCH CLEARANCES SHALL BE AS REQUIRED BY THE MANUFACTURER.

11. PROVIDE CONCRETE PAD (FOR GRADE MOUNTING) OR PLATFORM (FOR ROOF AND ATTIC SPACE MOUNTING). ROOF PLATFORM DESIGN SHALL BE COMPATIBLE ROOF SYSTEM.

12. FOR ROOF MOUNTING, SEAL ALL ANCHOR BOLTS WITH SILICON SEALER.

13. CONDUITS FOR TRANSFORMER CONNECTIONS SHALL BE LOCATED WITHIN THE FOOTPRINT OF THE UNITS AS FAR AS PRACTICAL.

14. CLEAN ALL DEBRIS FROM WITHIN THE TRANSFORMER.

262417. PANELBOARDS:

1. UNITS SHALL BE FLUSH OR SURFACE MOUNTED AS INDICATED ON THE PANEL SCHEDULE. WITH THE NUMBER AND SIZE OF BREAKERS AS INDICATED ON THE PANEL SCHEDULE. SINGLE POLE, TWO POLE, AND THREE POLE BREAKERS SHALL BE BOLT-ON TYPE. MULTIPLE POLE BREAKERS SHALL HAVE COMMON INTERNAL TRIP CONNECTION. SINGLE POLE BREAKERS SHALL NOT BE TIED AT HANDLES TO FORM MULTIPLE POLE BREAKERS. THE PANEL DOORS SHALL BE DOOR-IN-DOOR CONSTRUCTION AND SHALL HAVE FLUSH TYPE LOCKS, ALL LOCKS SHALL BE KEYED ALIKE AND HAVE TYPEDWRITTEN DIRECTORIES INDICATING FIXTURES, EQUIPMENT, OR OUTLETS SERVICE BY EACH BREAKER. PANELS SHALL HAVE COPPER BUSSING.

262726. WIRING DEVICES:

1. UNITS SHALL BE EQUAL TO THE DEVICES SET FORTH HEREIN, IN STANDARD COLORS (BROWN, WHITE, GREY, BEIGE OR IVORY) AS SELECTED BY THE ARCHITECT:
A. WIRING DEVICES LEVITON # HUBBELL # P & S #
SINGLE POLE SWITCH, 15A 1201-2 HBL1201 PS15AC1
DOUBLE POLE SWITCH, 15A 1202-2 HBL1202 PS15AC2
THREE WAY SWITCH, 15A 1203-2 HBL1203 PS15AC3
DUPLEX CONV. OUTLET, 15A 5362 HBL5362 5362
DUPLEX CONV. OUTLET, 20A 5362 HBL5362 5362
DUPLEX CONV. GFI OUTLET, 15A 6599 GF15 1595L
DUPLEX CONV. GFI OUTLET, 20A 6899 GF15 2095L

2. THE CONTROLLED OUTLET SHALL HAVE PERMANENT UNIQUE MARKING PROVIDED BY THE MANUFACTURER OF THE RECEPTACLE.

3. THE MOUNTING HEIGHTS OF LIGHT SWITCHES, RECEPTACLES AND CONTROLS SHALL BE MAXIMUM 48" MEASURED TO THE TOP OF BOXES OR MINIMUM 16" TO THE BOTTOM OF BOXES. SEE "LEGEND" FOR ACTUAL MOUNTING HEIGHTS OF DEVICES. VERIFY HEIGHT WITH ENGINEER WHERE AN ACTUAL MOUNTING HEIGHT IS NOT CALLED OUT ON PLANS.

4. SINGLE RECEPTACLE SERVED BY INDIVIDUAL 20A BRANCH CIRCUIT DEDICATED TO THE OUTLET SHALL BE 20A RATED PER CEC 210.21(B)(1). ALL OTHERS SHALL BE 15A RATED.

5. ALL 15A AND 20A, 120V OUTLETS IN KITCHEN SHALL BE GFCI PER CEC 210.8(B)(2). LOCATE SUCH OUTLETS SO THAT THEY ARE ACCESSIBLE AFTER APPLIANCES THAT ARE PLUGGED INTO THE OUTLETS ARE IN PLACE.

6. ALL RECEPTACLES INSTALLED OUTDOORS SHALL BE WEATHERPROOF AND HAVE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION.

262726.02. DEVICE PLATES:

1. ALL DEVICE PLATES FOR INDOOR USE SHALL BE NYLON.

2. ALL DEVICE BOXES WHICH ARE INSTALLED IN FIRE RATED WALL ASSEMBLY AND IS PROVIDED WITH A FIRE-STOPPING PUTTY PAD SHALL HAVE A BRUSHED STAINLESS STEEL COVERPLATE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PUTTY PAD.

3. DEVICE COVERS FOR SURFACE MOUNTED BOXES SHALL BE 1/2" RAISED STEEL PLATES.

4. DEVICE COVERS FOR DEVICES LOCATED IN DAMP LOCATIONS SHALL COMPLY WITH CEC 406.9(A).

5. DEVICE COVERS FOR DEVICES LOCATED IN WET LOCATIONS SHALL COMPLY WITH CEC 406.9(B).

262729. DISCONNECT SWITCHES:

1. UNITS SHALL BE HEAVY DUTY FUSED DISCONNECT SWITCHES, TWO OR THREE POLE TYPE, WHERE INDICATED ON THE DRAWINGS, OR AS REQUIRED BY CODE. SWITCHES AND FUSES SHALL BE AS REQUIRED BY THE LOADS SERVING.

2. DISCONNECTS FOR FRACTIONAL HORSE POWER MOTORS SHALL BE MOTOR-RATED TOGGLE TYPE DISCONNECTS.

3. DISCONNECTS FOR SINGLE PHASE MOTORS SHALL BE SINGLE PHASE AND NOT THREE PHASE.

4. LOCATE DISCONNECTS IN ACCORDANCE WITH CEC 430.102. ENSURE ALL CODE-REQUIRED CLEARANCES.

C:\URSES\RICHARDS\SMITH\BOV\PCS\2021\301-400\BLACKWATER\COVERT\E1.DWG (RCS) 6/7/2023 3:56:41 PM BY RICHARD SMITH



REV	DATE	DESCRIPTION	APP

PROJECT NO.	J21346
DESIGNED BY	RCS
DRAWN BY	GT
CHECKED BY	RCS
DATE	JUNE 2023



**SALIDA SANITARY DISTRICT
COVERT LIFT STATION**

GENERAL NOTES

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING

0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAWING NO.
E1

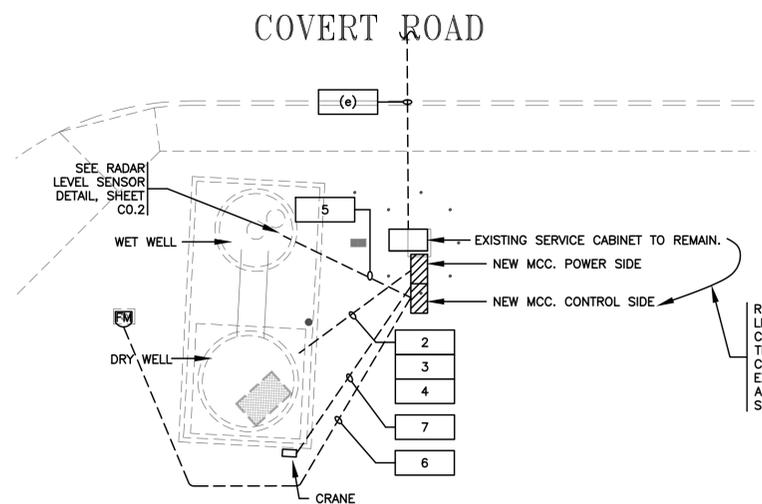
SHEET NO.
8 OF 13

**HCS
Engineering**
50 years

4512 Feather River Dr #F, Stockton, CA 95219
209-478-8270 | www.hcs-eng.com

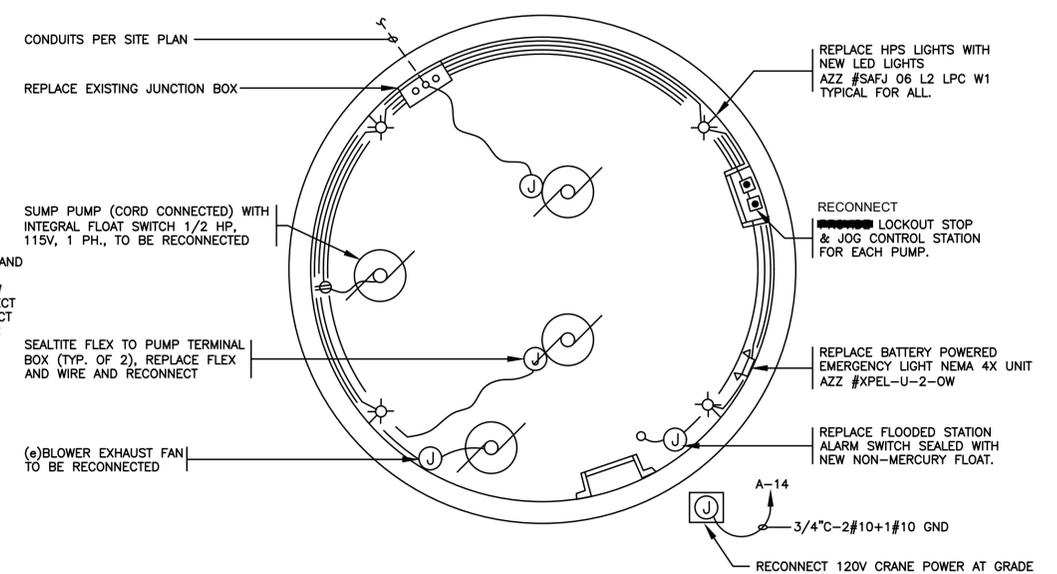
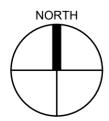
Richard C. Smith, PE richard@hcs-eng.com
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Elizabeth Aguilar, elizabeth@hcs-eng.com

PROJECT # 2021280



ELECTRICAL SITE PLAN

SCALE: 1"=10'-0"



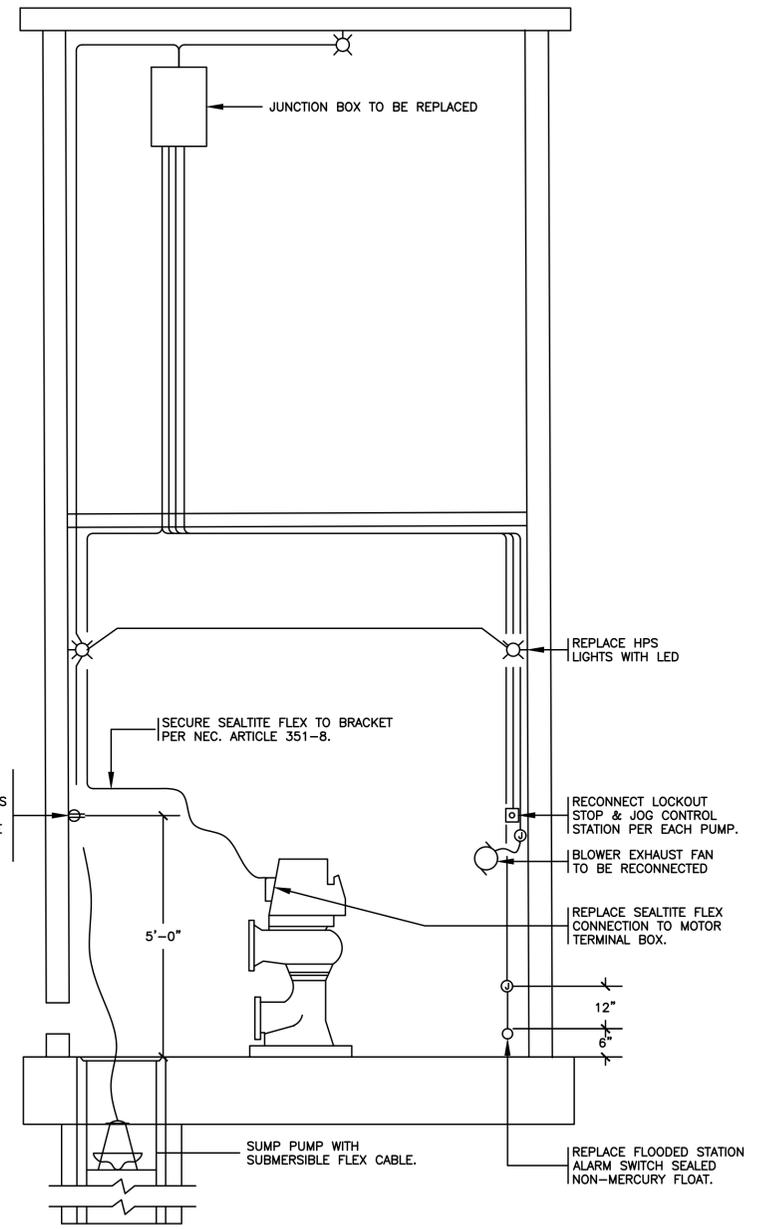
NOTE: ANY EXISTING PENETRATIONS AT THE CONCRETE WALLS OF THE DRY AND WET WELLS THAT ARE ABANDONED MUST BE GROUTED AND SEALED WATERTIGHT.

PUMP STATION - ELECTRICAL PLAN

SCALE: N.T.S.

CONDUIT & WIRE ROUTING SCHEDULE						
ID	CONDUIT NO.	CONDUIT SIZE	CABLE NO. & SIZE	FROM	TO	REMARKS
2	1	1-1/2"	3 #4 CU POWER 6 #12 CU CONTROL 1 #8 CU CONTROL	SEWAGE PUMP SERVICE PEDESTAL	PUMP #1	REPLACE CONDUIT & WIRE
3	1	1-1/2"	3 #4 CU POWER 6 #12 CU CONTROL 1 #8 CU CONTROL	SEWAGE PUMP SERVICE PEDESTAL	PUMP #2	REPLACE CONDUIT & WIRE
4	1	1"	10 #12 CU	SEWAGE PUMP SERVICE PEDESTAL	DRY WELL	REPLACE CONDUIT & WIRE
5	2	1"	RADAR & FLOAT CABLES	SEWAGE PUMP SERVICE PEDESTAL	WET WELL	REPLACE TUBE & FITTING
6	1	3/4"	1#TSP#6	FLOW METER	CONTROLS	NEW TUBE WITH MAGMETER TRANSMITTER CABLE
7	1	3/4"	2#10+1#10 GND	CRANE	PANEL "A"	RECONNECT CRANE

ALL CONDUITS AND CABLES ARE TO BE REPLACED (OR NEW) WITH THOSE SHOWN.



PUMP STATION - SECTION

SCALE: N.T.S.

HCS Engineering
50 years
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Richard C. Smith, PE richard@hcs-eng.com
Bhupendra Patel, PE bhupendra@hcs-eng.com
Elizabeth Aguilar, elizabeth@hcs-eng.com

PROJECT # 2021.280

C:\USERS\RICHARD\SMITH\WORK\PROJECTS\2021\301-400\BLACKWATER\COVERT LIFT STATION\2023.2.24.4.5 PM BY RICHARD SMITH

BLACKWATER
CONSULTING ENGINEERS
602 LYELL DRIVE, MODESTO, CA 953556 • PH:209.322.1820

811
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RICHARD C. SMITH
No. E14303
Exp. 6-30-25
ELECTRICAL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	APP

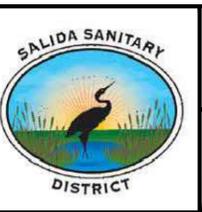
PROJECT NO.
J21346

DESIGNED BY
RCS

DRAWN BY
GT

CHECKED BY
RCS

DATE
JUNE 2023



SALIDA SANITARY DISTRICT

COVERT LIFT STATION

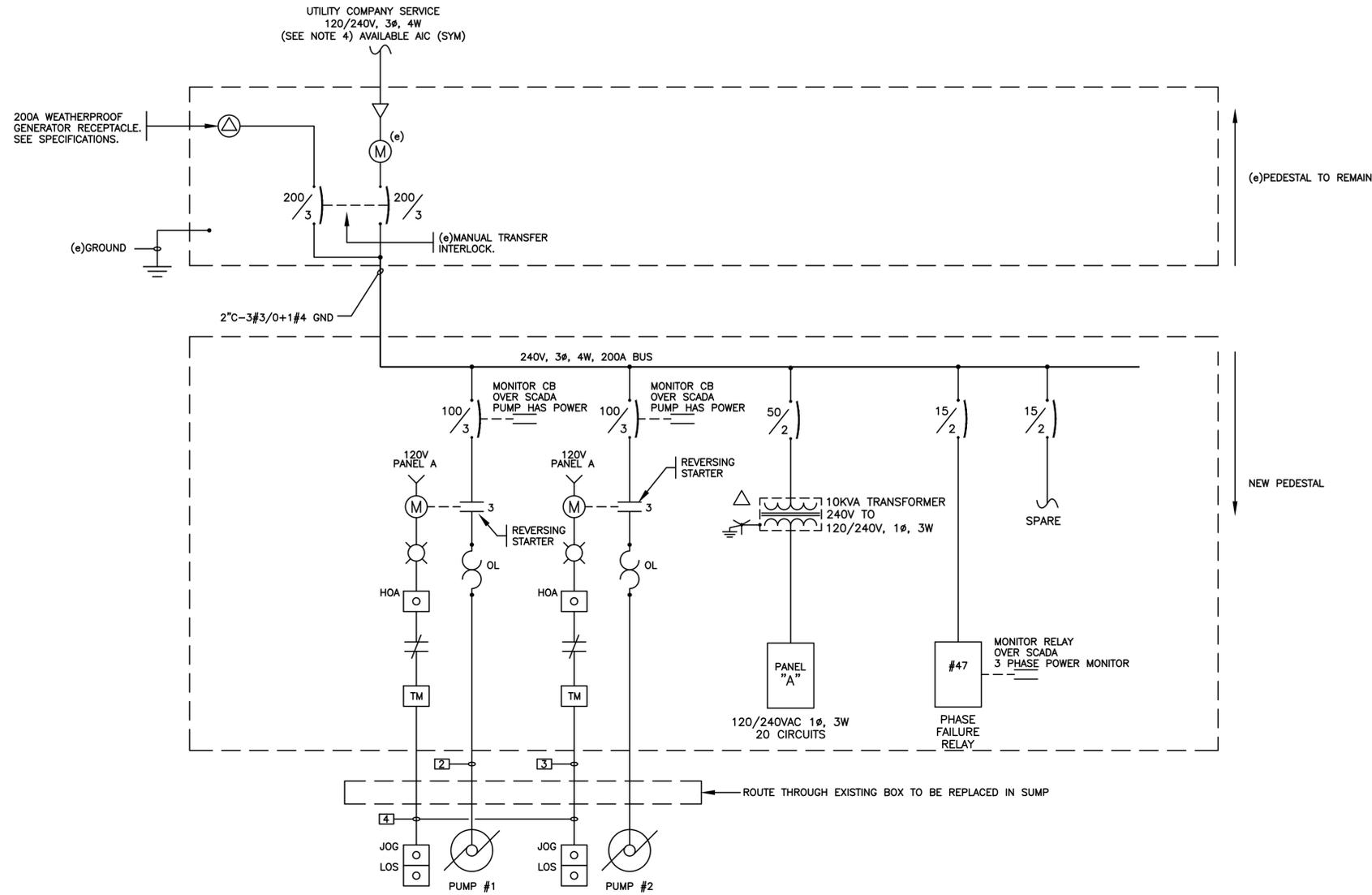
ELECTRICAL SITE PLAN AND FEEDER SCHEDULE

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING

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DRAWING NO.
E2

SHEET NO.
9 OF 13



ONE LINE DIAGRAM
SCALE: N.T.S.

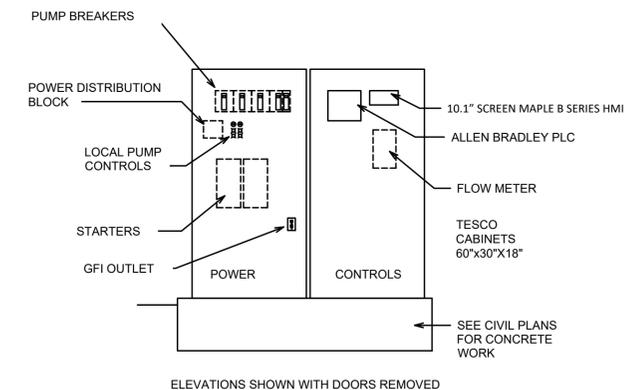
NARRATIVE OF OPERATION:

- DURING NORMAL OPERATION, THE SUMP LEVEL IS MONITORED BY THE RADAR LEVEL SENSOR. WHEN THE LEVEL EXCEEDS LEAD START PUMP LEVEL, THE FIRST PUMP WILL COME ON. WHEN THE LEVEL EXCEEDS LAG START PUMP LEVEL, THE SECOND PUMP WILL COME ON. CALLED PUMPS WILL CONTINUE TO PUMP UNTIL THE STOP LEVEL IS REACHED.
- IF THE RADAR SENSOR FAILS, AND THE HIGH LEVEL FLOAT COMES ON WITHOUT THE LEVEL SENSOR CALLING FOR THE PUMPS TO START, BOTH PUMPS WILL START AND RUN UNTIL THE LOW LEVEL FLOAT TRIGGERS SHUTTING OFF THE PUMP. IF THIS OCCURS, ADD AN ALERT TO THE SYSTEM THAT THERE WAS AN LEVEL TRANSDUCER FAILURE. (LOCALLY AND OVER SCADA).
- PUMPS WILL ALTERNATE ON CALLS.
- DURING HAND OPERATION, PUMP WILL PUMP DOWN TO THE FLOAT STOP LEVEL. THE INTEGRATOR WILL PROVIDE A LOW LEVEL BYPASS SWITCH. WHEN THIS IS CLOSED, THE PUMPS WILL CONTINUE TO PUMP UNTIL MANUALLY TURNED OFF.
- THE INTEGRATOR WILL PROVIDE A FORWARD AND REVERSE JOG SWITCH TO CLEAR THE PUMPS IF CLOGGED.
- THE INTEGRATOR WILL PROVIDE A LOW LEVEL BYPASS SWITCH FOR HAND OPERATION MODE. (THIS WILL ALLOW THE WATER LEVEL TO FALL BELOW THE LOW LEVEL.
- ALL PUMP OPERATIONS WILL BE REPORTED LOCALLY ON THE HMI AND TRANSMITTED TO THE DISTRICT'S SCADA SYSTEM. THE CONTRACTOR WILL PROGRAM THE EXISTING SCADA SYSTEM WITH THE NEW PLC SYSTEM REGISTERS TO DISPLAY INFORMATION. THE LOCAL HMI AND THE SCADA SCREENS WILL ALLOW THE OPERATORS TO MONITOR PUMP OPERATIONS, TIMES AND VIEW OR CHANGE SET POINT LEVELS.

- THE FLOW TRANSMITTER AND THE POWER MONITOR WILL BE REPORTED LOCALLY ON THE HMI AND SEND SCADA
- THE PLC, RADIO, LEVEL TRANSDUCER LEVEL READOUT GAUGE, AND HMI WILL HAVE BATTERY BACKUP UPS TO MAINTAIN OPERATION EVEN DURING POWER FAILURE FOR 3 HOURS.
- THE FOLLOWING ARE THE EXISTING SIGNALS SENT TO SCADA
 - OWS:CVT_COMM_FAIL - Communications failure at Covert Liftstation, which is actually a power failure
 - OWS:CVT_FLOOD - Dry pit flooded
 - OWS:CVT_LAH - Wet Well High Level
 - OWS:CVT_LAL - Wet Well Low level
 - OWS:CVT_P1_FAIL - Pump #1 was called to run, but didn't
 - OWS:CVT_P1_RUN - Pump #1 is running
 - OWS:CVT_P2_FAIL - Pump #2 was called to run, but didn't
 - OWS:CVT_P2_RUN - Pump #2 is running
 - OWS:CVT_LEVEL - Wet Well Level Reading

- ADD THESE INPUTS AND REPORT OVER SCADA
 - SUMP LEVEL
 - RADAR LEVEL TRANSDUCER FAILURE
 - HIGH FLOAT SWITCH ACTIVE
 - LOW FLOAT SWITCH ACTIVE
 - FLOW METER
 - PUMP 1 IN HAND
 - PUMP 1 IN AUTOMATIC
 - PUMP 1 HAS POWER
 - PUMP 2 IN HAND
 - PUMP 2 IN AUTOMATIC
 - PUMP 2 HAS POWER
 - 3 PHASE POWER MONITOR
- ADD THESE REMOTE CONTROLS
 - PUMP 1 BYPASS OFF (WHILE IN AUTO)
 - PUMP 2 BYPASS OFF (WHILE IN AUTO)

PANEL "A"					
LOCATION : IN PEDESTAL	TITLE 24 CATEGORY: OUTLETS				
TOTAL KVA : 5.6	CONNECT AMPS: 23.3A				
MOUNTING : IN PEDESTAL	VOLTAGE : 120/240V, 1Ø, 3W				
BUSSING : 100A <input type="checkbox"/> MCB <input checked="" type="checkbox"/> MLO	FEEDER : <input checked="" type="checkbox"/> SEE ONE LINE DIAGRAM				
AIC : 18,000	<input type="checkbox"/> EXISTING				
DESCRIPTION	LOAD	BRKR	BRKR	LOAD	DESCRIPTION
PUMP CONTROLS	500	20/1	1	2	20/1 200 PEDESTAL LIGHTING
SPACE HEATERS - PEDESTAL	1000		3	4	200 GFI RECEPTACLE - PEDESTAL
SUMP PUMP	1000		5	6	300 DRY WELL LIGHTING
EXHAUST FAN	1000		7	8	200 DRY WELL RECEPTACLES
SPARE			9	10	SP SPACE
			11	12	
			13	14	20/1 1196 CRANE
			15	16	
			17	18	
			19	20	
			21	22	
			23	24	
			25	26	
			27	28	
			29	30	
			31	32	
			33	34	
			35	36	
			37	38	
			39	40	
			41	42	
	3500	VA	TOTAL	2096	



NEW PANEL & CONTROL CABINET ELEVATIONS
SCALE: N.T.S.

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PROJECT NO. J21346
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CHECKED BY RCS
DATE JUNE 2023



SALIDA SANITARY DISTRICT
COVERT LIFT STATION

ONE LINE DIAGRAM AND PANEL SCHEDULE

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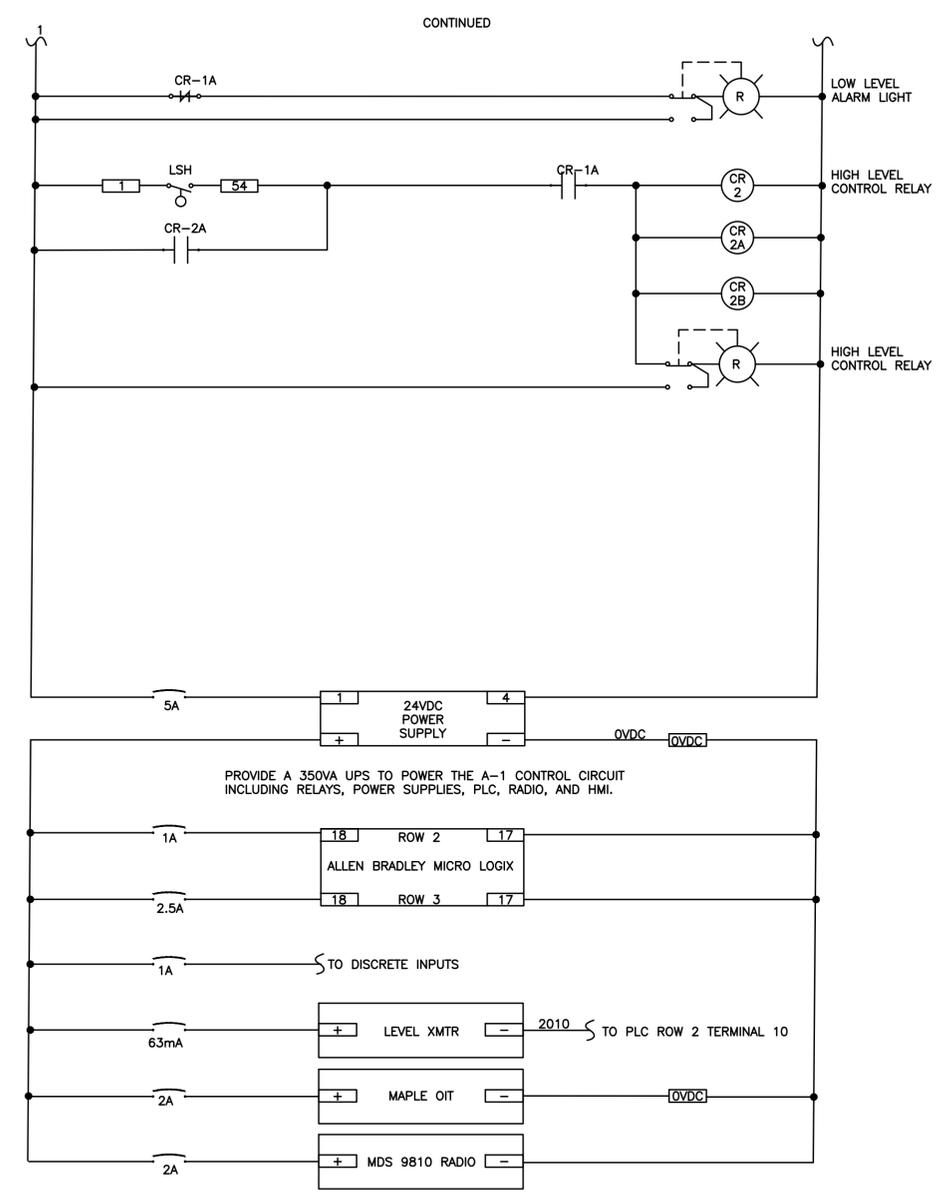
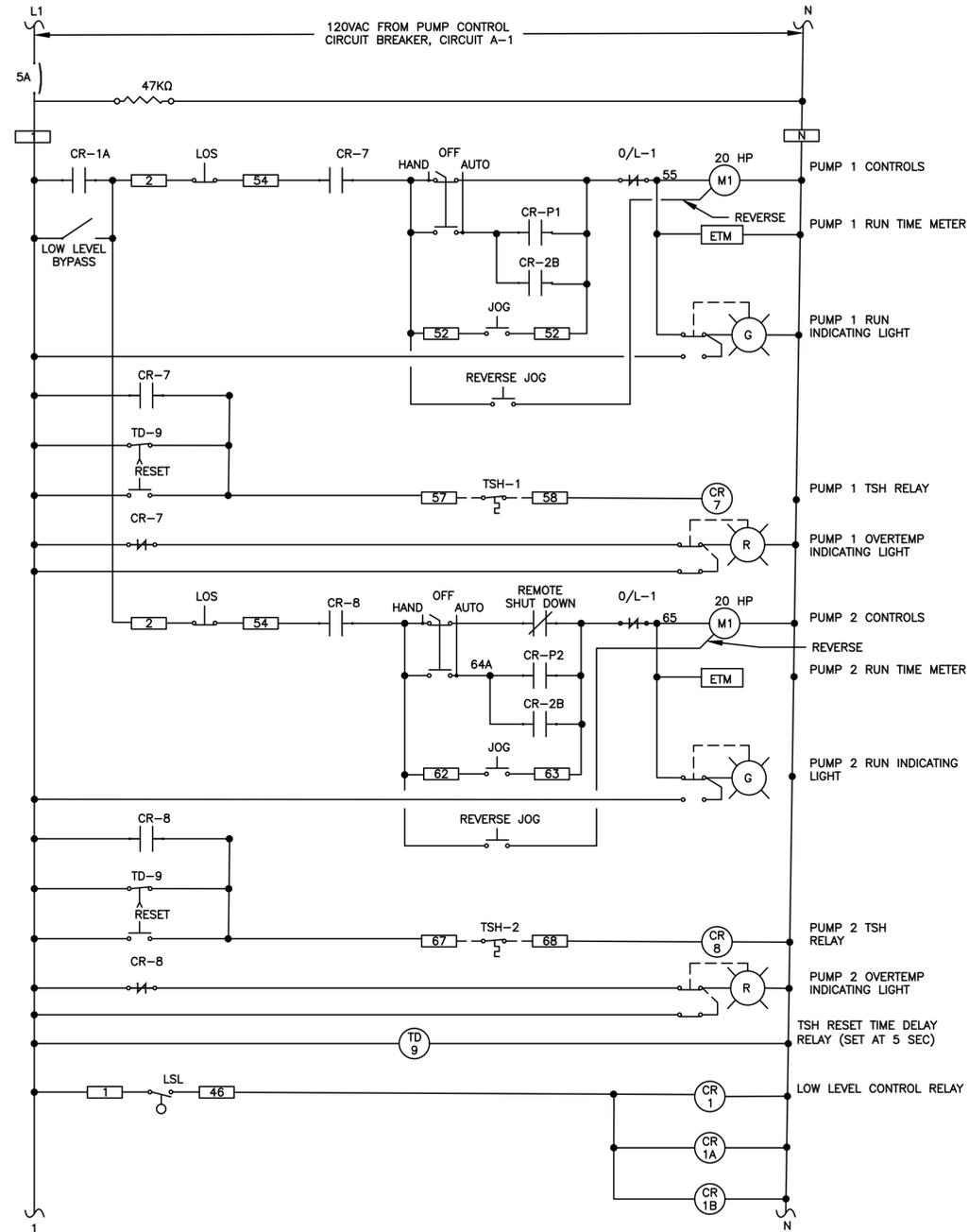
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E3

SHEET NO.
10 OF 13

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PROJECT # 2021.280



COVERT SITE POWER AND CONTROL WIRING DIAGRAM

SCALE: NTS

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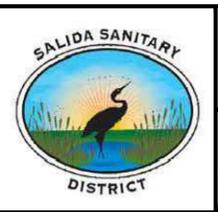
Richard C. Smith, PE richard@hcs-eng.com
Bhupendra Patel, PE bhupendra@hcs-eng.com
Elizabeth Aguilar elizabeth@hcs-eng.com

PROJECT # 2021280

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REV	DATE	DESCRIPTION	APP

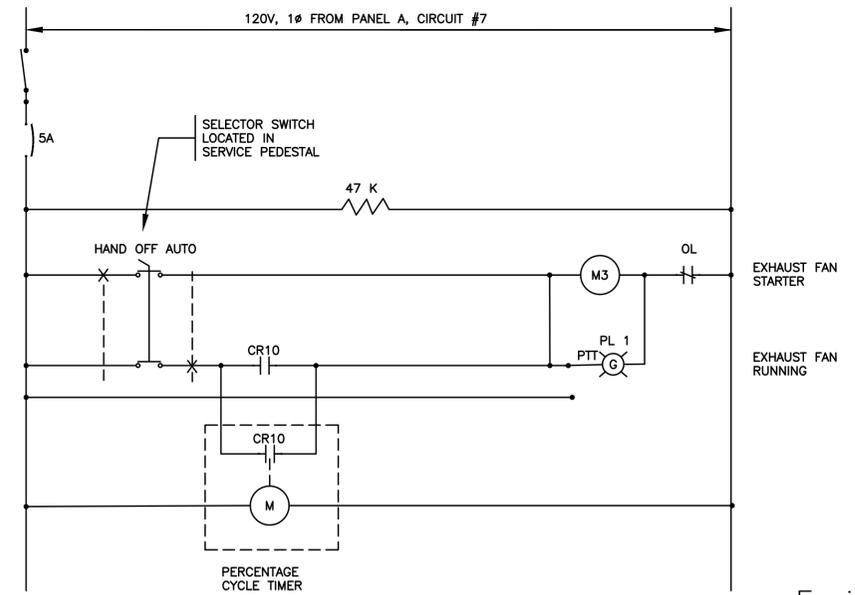
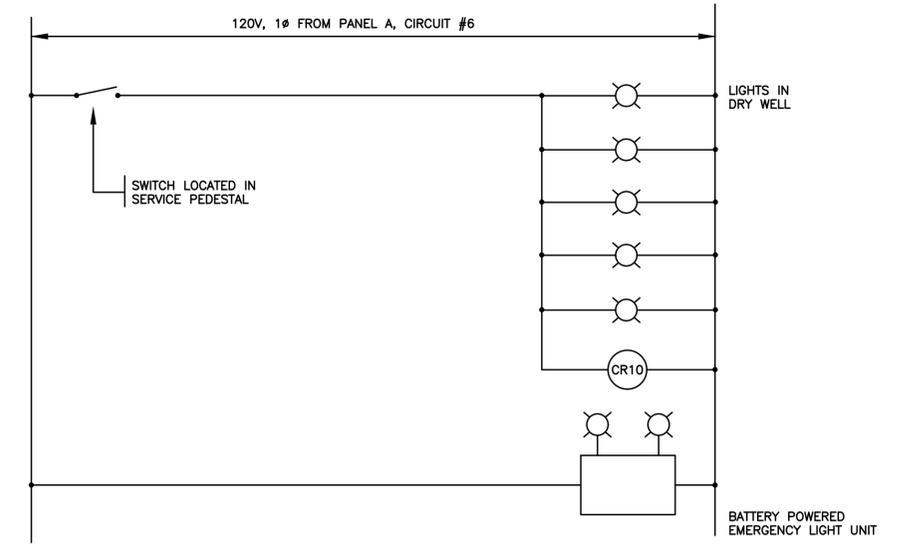
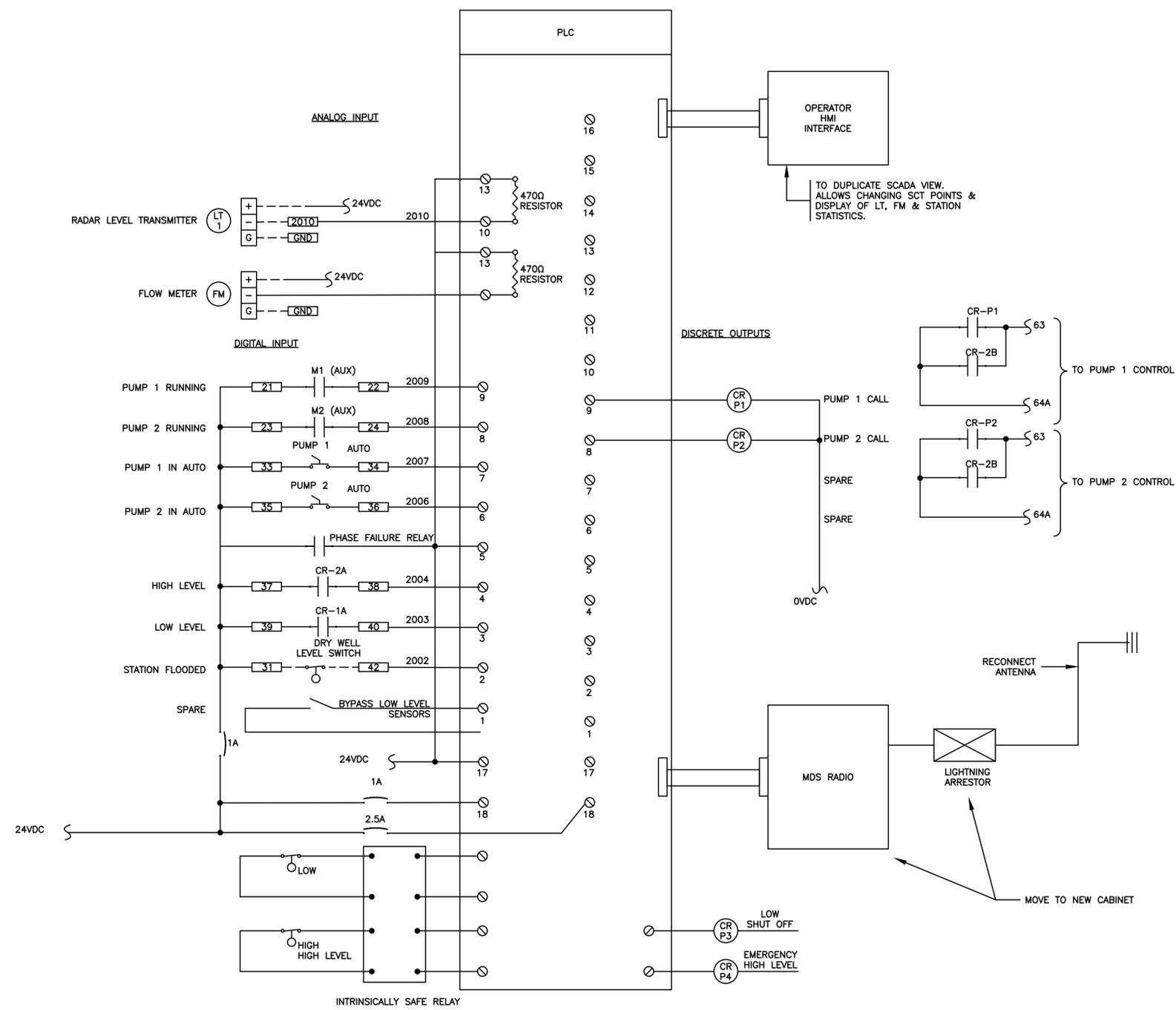
PROJECT NO. J21346
DESIGNED BY RCS
DRAWN BY GT
CHECKED BY RCS
DATE JUNE 2023



SALIDA SANITARY DISTRICT
COVERT LIFT STATION
CONTROLS

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DRAWING NO. E4
SHEET NO. 11 OF 13



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PROJECT # 2021280

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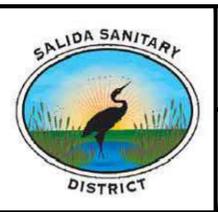
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SALIDA SANITARY DISTRICT
COVERT LIFT STATION

CONTROLS

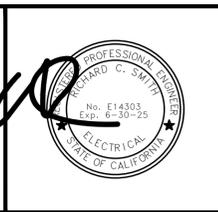
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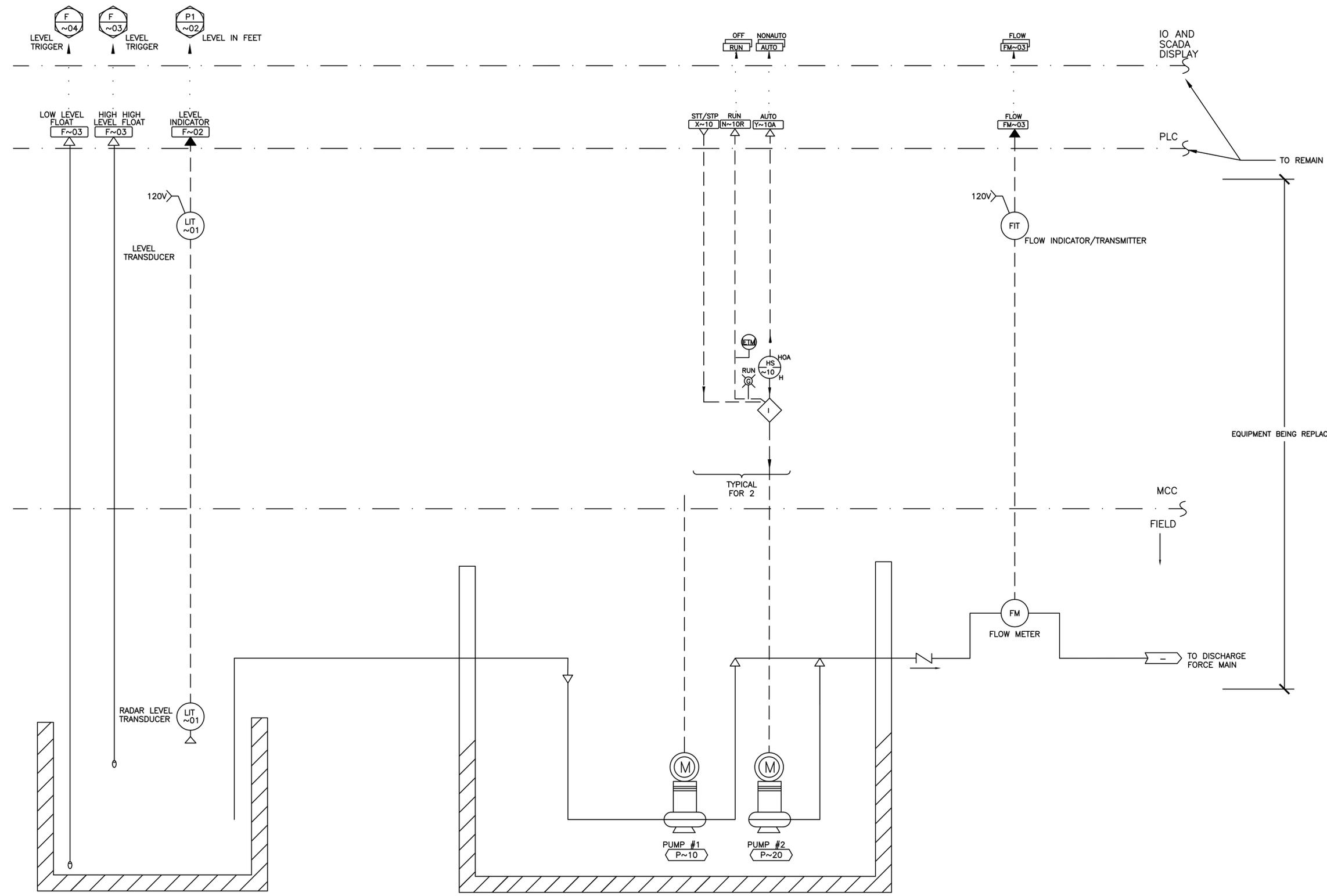
0 1"

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DRAWING NO.
E5

SHEET NO.
12 OF 13





A PUMP STATION P&ID

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PROFESSIONAL ENGINEER
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 ELECTRICAL
 STATE OF CALIFORNIA

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 GT
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SALIDA SANITARY DISTRICT
 COVERT LIFT STATION

RTU/SCADA
 CONTROLS

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