

## **GENERAL EL** 10. တ် $\ddot{\circ}$ 4. 7. 5. 6. $\dot{\infty}$ CONDUIT RUN CONCEALED UNDER SLAB OR BELOW GRADE. (CONCEALED IN SLAB WHERE SO NOTED OR WHERE ALLOWED PER SPECIFICATIONS). OF CONTROL DEVICE P = PRESSURE SWITCH ZS = LIMIT SWITCH L = LEVEL SWITCH V = CONTROL VALVE CONTROL STATION: PUSH-BUTTON STATION OR SELECTOR SWITCH. SEE CONTROL WIRING DIAGRAMS FOR REQUIREMENTS. CONDUIT NUMBER 12. SEE CONDUIT AND WIRING SCHEDULE FOR SIZES AND QUANTITIES OF CONDUIT AND WIRES. INDICATES HEIGHT FROM FINISHED FLOOR OR GRADE TO CENTERLINE ODEVICE. LIGHTING FIXTURE MOUNTED ON POLE OR POST OR ABOVE PLATFORM SEE LIGHTING WITH SUBSCRIPT "a" ADJACENT TO THEM SHALL BE SINGLE CONVENIENCE RECEPTACLE AT +18" OR AS NOTED SPECIAL PURPOSE RECEPTACLE AT +18" OR AS NOTED, RATING AS INDICATED LIGHTING PANEL. SURFACE MOUNTED SWITCHBOARD, DISTRIBUTION PANEL OR MOTOR CONTROL CENTER INSTRUMENTATION DEVICE. SEE PROCESS AND INSTRUMENTATION DRAWINGS FOR DESCRIPTIONS EXISTING PULL BOX (SIZE AS REQUIRED) -AT +48" OR AS NOTED CONVENIENCE RECEPTACLE AT +18" OR AS NOTED CONVENIENCE RECEPTACLE AT +18" OR AS NOTED DISCONNECT SWITCH. SEE SINGLE LINE DIAGRAM FOR SIZE LIGHTING FIXTURES CONNECTED TO EMERGENCY CIRCUITS LIGHTING FIXTURE TYPE A, 100 WATTS, WITH 1 LAMP. SE FIXTURE SCHEDULE CONDUIT RUN EXPOSED UNLESS OTHERWISE NOTED EXISTING CONDUIT RUN WEATHERPROOF. PROVIDE GASKETS AS REQUIRED ELECTRICAL JUNCTION BOX (SIZE AS REQUIRED) DOUBLE POLE, SINGLE THROW TOGGLE SWITCH THREE-WAY TOGGLE SWITCH EQUIPMENT) SINGLE POLE, SINGLE THROW TOGGLE SWITCH JUNCTION BOX, SIZE AS REQUIRED BY CODE THERMOSTAT OUTLET AT +54" CLOCK OUTLET AT +7'-6" OR AS NOTED TELEPHONE OUTLET AT +18" OR AS NOTED TELEPHONE FLOOR OUTLET HOMERUN TO PANEL L, CIRCUITS 1 AND CONDUIT UP (OUT TOP OF EQUIPMENT) DOWN (OUT BOTTOM OF EQU STUBBED OUT AND CAPPED BRACKET MOUNTED LIGHTING FIXTURE CEILING MOUNTED LIGHTING FIXTURE **PLANS** RECESSED LED LIGHTING FIXTURE FLUORESCENT LIGHTING FIXTURE PULL BOX (SIZE AS REQUIRED) POLE MOUNTED LIGHT FIXTURE SWITCH MANUAL MOTOR STARTER TOGGLE OUTPUT TERMINAL OUTLETS SHOWN CONTROLLED BY EXISTING MOTOR INPUT TERMINAL FUTURE MOTOR CONDUIT ONLY GROUND WELL GROUND WIRE GROUND ROD FLOODLIGHT NEW MOTOR FOUR-WAY EXIT LIGHT CONDUIT DUPLEX HORN FE-184 L(1,3) $\sum_{\Sigma}$ 12 A 1/100 $\sum$ ⇒ × G. +12" \$<sup>d</sup> C.O. $\Diamond$ CONTROL CENTER O REMOTE DEVICE/MCP (0-30 SECONDS NOTED). SEE NOTE 3. SPACE HEATERS. (LOCATED AT MOTOR UNLESS OTHERWISE NOTED). EMERGENCY STOP PUSH BUTTON (MAINTAINED CONTACT) STOP -START PUSH-BUTTON STATION (MAINTAINED CONTACTS). TERMINALS IN MOTOR CONTROL CENTER/MCP —CONTACT OR DEVICE REMOTE FROM MOTOR CONTROL CENTER/MCP TERMINALS IN MOTOR CONTROL CENTER/MCP SOLENOID OPERATED CONTROL VALVE 120 VOLT, 1 PHASE, MOTOR (UNLESS OTHERWISE NOTED) OUT(LOCATED AT MOTOR UNLESS OTHERWISE NOTED) TIMED CONTACT— CONTACT ACTION RELAY ON ENERGIZATION. TIMED CONTACT— CONTACT ACTION RELAY ON DE-ENERGIZATION. CIRCUIT LOCK MOTOR STARTER OVERLOAD RELAY CONTACTS WATER, ETC.) TEMPERATURE ACTUATED SWITCH PILOT LIGHT, Y=YELLOW, R=RED, A=AMBER, SEE NOTE 3. B=BLUE W=WHITE, G=GREEN. TWO POSITION SELECTOR SWITCH HAND-OFF-AUTO SELECTOR SW SEE NOTE 3. (THREE POSITION). PRESSURE OR VACUUM SWITCH PUSH BUTTON SINGLE CIRCUIT MOMENTARY CONTACT. SYMBOLS CLOSED CONTROL WIRING DIAGRAMS OPEN MANUAL MOTOR STARTER TRANSFORMER RUNNING TIME METER. (ELAPSED TIME METER) SIGNAL OUTPUT Щ SWITCH INPUT CONTACT IN MOTOR FOR CONNECTION TO PUSH BUTTON SING SWITCH HELD LIMIT SWITCH HELD TIME DELAY RELAY. UNLESS OTHERWISE FLOW SWITCH (AIR, ON-OFF SWITCH. CONTROL RELAY HORN OR SIREN SIGNAL STARTER COIL LIQUID LEVEL LIMIT SWITCH ELECTRICAL DEVICE CONTACT CONTROL DEVICE DEVICE LIMIT BELL NORMALLY CLOSED START \_0L'S 0 7 $\frac{1}{2}$ $\vdash$ Ю $\vdash$ $^{\Gamma}$ ,핏 0 0 9 d ESB ( TDR (A) S NORMALLY OPEN ≥ $^{\circ}$ / $_{\circ}$ STOP 9 3 POLE UNLESS OTHERWISE STARTER CIRCUIT BREAKER, 3 POLE UNLESS OTHERWISE INDICATED MAGNETIC MOTOR STARTER."1" INDICATES SIZE 1. RV INDICATES REDUCED VOLTAGE. 2S INDICATES 2 SPEED. R INDICATES REVERSING. MAGNETIC CONTACTOR OF THE CONDUIT NUMBER 12. SEE CONDUIT AND WIRING SCHEDULE FOR SIZES AND QUANTITIES OF CONDUIT AND WIRES. FUTURE MOTOR (ESTIMATED HP SHOWN) 2. CONTROL TRANSFORMER SHALL BE DRY TYPE 480–120 VOLTS 1 PHASE UNLESS OTHERWISE INDICATED. SEE CONTROL WIRING DIAGRAMS FOR USE OF 120 VOLT CONTROL CIRCUITS CONTROL TRANSFORMERS SHALL BE SIZED TO HANDLE THE LOADS OF ALL RELAYS, PILOT LIGHTS, ETC. CONNECTED THERE TO PLUS 50 VA EXTRA CAPACITY. OUT TYPE HIGH VOLTAGE MOTOR EQUIPMENT FURNISHED, INSTALLED AND CONNECTED UNDER ANOTHER SECTION (CONTRACT. KIRK KEY INTERLOCKING OF EQUIPMENT 4 WIRE NEW MOTOR (ESTIMATED HP SHOWN) 1. POWER TRANSFORMERS SHALL BE DRY TYPE 480-208Y/120 VOLTS, 3 PHASE 4 UNLESS OTHERWISE INDICATED. POWER TRANSFORMER SEE NOTE CONTROL TRANSFORMER SEE NOTE TRANSFER SWITCH, AUTOMATIC EXISTING MOTOR (HP SHOWN) **DIAGRAMS** DRAW OUT TYPE EQUIPMENT GROUND FAULT PROTECTION PLUG-IN TYPE EQUIPMENT POTENTIAL TRANSFORMER CURRENT TRANSFORMER KILOWATT HOUR METER PHASE FAILURE RELAY SYMBOLS) DISCONNECT SWITCH, INDICATED VOLTMETER SWITCH OIL FUSE CUTOUTS FUSE SEE NOTE 3. SWITCH ARRESTER SINGLE LINE (ELECTRICAL VOLTMETER AMMETER EYS SEAL AMMETER MANHOLE GROUND SURGE DRAW 全直 36 } $\bigcirc$ AS $\geq$ )당 <u>/</u>(# **\*** , 0 H PFR - SA (12) 0 RV X # 内 15 A-24 KWH NS

AMP AMPERE	GND GROUND	N.C. NORMALLY CLOSED
AL ALUMINUM	HP HORSEPOWER	NEC NATIONAL ELECTRICAL CODE
ATS AUTOMATIC TRANSFER SWITCH	HPS HIGH PRESSURE SODIUM	N.O. NORMALLY OPEN
AWG AMERICAN WIRE GAUGE	HZ HERTZ (CYCLES PER SECOND)	NO. NUMBER
BRK BREAKER	IC INTERRUPTING CAPACITY	PLC PROGRAMMABLE LOGIC CONTROLLEF
CAT CATALOG	KV KILOVOLTS	PNL PANEL
CIRC. MIL CIRCULAR MILS (AWG)	LCL LONG CONTINUOUS LOAD	PR PAIR
C.O. CONDUIT ONLY	LTG LIGHTING	PVC POLYVINYL CHLORIDE
CKT CIRCUIT	LED LIGHT EMITTING DIODE	REC RECEPTACLE
CP CONTROL PANEL	MCC MOTOR CONTROL CENTER	RGS RIGID GALVANIZED STEEL
DIA DIAMETER	MCP MAIN CONTROL PANEL	SES SERVICE ENTRANCE SECTION
DWG DRAWING	MCM THOUSAND CIRCULAR MIL (AWG)	SPECS SPECIFICATIONS
EA EACH	MFR MANUFACTURER	SSS SOLID STATE STARTER
ELECT ELECTRICAL	MINIMUM MINIMUM	TEL TELEPHONE
ELEV ELEVATION	MIS MISCELLANEOUS	TDR TIME DELAY RELAY
EXIST EXISTING	MTG MOUNTING	TTB TELEPHONE TERMINAL BACKBOARD
FLA FULL LOAD AMPS		TYP TYPICAL
FUT FUTURE		UCP UNIT CONTROL PANEL
GFCI GROUND FAULT		V VOLTS
CIRCOII IN IERROT IER		WP WEATHERPROOF
		A SUSTONATE A WAY

**ABBREVIATION** 

## ECTRICAL REQUIREMENTS

- ATEST THE ID INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODE ORDINANCES AND CONTRACTOR SHALL OBTAIN NECESSARY PERMITS AND INSPECTIONS REQUIRED BY THE AUTHORITIES HAVING ALL WORK SHALL BE DONE IN A NEAT, WORKMANLIKE, FINISHED AND SAFE MANNER, ACCORDING TO THE LAC.A. STANDARDS OF INSTALLATION, UNDER COMPETENT SUPERVISION. INSTALL GROUNDING AS REQUIRED BY THE COMPLETED IN REGULATIONS. CONJURISDICTION. ALL PUBLISHED N.E.C.A.CODE(S).
- AFFECT PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND ALL OTHER FACTORS WHICH MAY OF THIS WORK. INCLUDE ALL RELATED COSTS IN THE INITIAL BID PROPOSAL. VISIT THE SITE THE EXECUTION
- ALL MATERIALS SHALL BE NEW AND OF THE BEST QUALITY, MANUFACTURED IN ACCORDANCE WITH NEMA, ANSI, U.L. OR OTHER APPLICABLE STANDARDS. THE USE OF MANUFACTURER'S NAMES, MODELS, AND NUMBERS IS INTENDED TO ESTABLISH STYLE, QUALITY, APPEARANCE, USEFULNESS AND BID PRICE. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED IN WRITING AND REVIEWED BY THE ENGINEER BEFORE ORDERING.
- PROTECT ALL ELECTRICAL MATERIAL AND EQUIPMENT INSTALLED AGAINST DAMAGE BY OTHER TRADES, WEATHER CONDITIONS OR ANY OTHER CAUSES. EQUIPMENT FOUND DAMAGED OR IN OTHER THAN NEW CONDITION WILL BE REJECTED AS DEFECTIVE.
  - LEAVE THE SITE CLEAN, REMOVE ALL DEBRIS, EMPTY CARTONS, TOOLS, CONDUIT, WIRE SCRAPS AND ALL MISCELLANEOUS SP EQUIPMENT AND MATERIALS USED IN THE WORK DURING CONSTRUCTION. ALL COMPONENTS SHALL BE FREE OF DUST, GRIT AI FOREIGN MATERIALS, LEFT AS NEW BEFORE FINAL ACCEPTANCE OF WORK.
- OR : "XHHW-2" ON T 'S #2 AWG OR SMALLER TO BE STRANDED COPPER TYPE "XHHW" FOR BELOW GRADE INSTALLATION TYPE THHN/THWN FOR ABOVE GRADE INSTALLATIONS. #1 AWG OR LARGER SHALL BE COPPER TYPE MINIMUM CONDUCTOR SIZE TO BE #12 AWG WITH #12 GND. CIRCUIT CONDUCTORS # STRANDED COPPER TYP STRANDED COPPER. MIN
- OUTDOOR CONDUITS EXPOSED TO BE GALVANIZED RIGID STEEL, MINIMUM SIZE 3/4", UNLESS OTHERWISE NOTED ON THE PLANS. GRS CONDUIT SHALL EXTEND BELOW GRADE TO THE FIRST ELBOW. ALL GRS CONDUIT EXPOSED TO EARTH SHALL BE HALF LAPPED WRAPPED IN SCOTCHRAP 50 10 MIL TAPE OR EQUAL. EXTEND WRAP TO A HEIGHT OF 12" ABOVE GRADE. INDOOR CONDUITS SHALL BE IMC OR EMT UNLESS OTHERWISE SHOWN ON PLAN. UNDERGROUND CONDUITS TO BE SCHEDULE 40 PVC. MINIMUM DEPTH 30", MINIMUM SIZE 1", UNLESS OTHERWISE SHOWN ( PLANS. CONDUITS AS SHOWN ARE DIAGRAMATICAL ONLY. EXACT CONDUIT ROUTING SHALL BE DETERMINED IN THE FIELD CONTRACTOR.
- ALL SAFETY SWITCHES AND OTHER DISTRIBUTION AND CONTROL ELECTRICAL EQUIPMENT SHALL BE U.L. LISTED AND RATED HEAVY DUTY SERVICE.

FOR

- ICAL EQUIPMENT, CONDUIT, WIRING, BOXES, ETC. SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO THE SUBMITTALS SHALL BE NEATLY GROUPED AND ORGANIZED. PERTINENT INFORMATION SHALL BE HIGHLIGHTED, AND IC PRODUCT SHALL BE IDENTIFIED. ALL SUBMITTALS SHALL BE COMPLETE, AND PRESENTED IN ONE PACKAGE. THE SHALL INCLUDE A COMPLETE LIST OF THE EQUIPMENT AND MATERIALS, INCLUDING THE MANUFACTURER'S NAME, PECIFICATION, DESCRIPTIVE DATA, TECHNICAL LITERATURE, PERFORMANCE CHARTS, CATALOG CUTS, INSTALLATION NS, AND SPARE PART RECOMMENDATIONS FOR EACH DIFFERENT ITEM OF THE EQUIPMENT SPECIFIED. ALL ELECTRICAL E ORDERING. THE S THE SPECIFIC PRC SUBMITTAL SHALL PRODUCT SPECIFIC INSTRUCTIONS, AN
- INSTRUMENTATION, AND AND RECORD DRAWINGS ) THAT A COMPLETE ELECTRICAL, SUPPORTED BY ACCURATE SHOP WORK, SO WILL BE SI HIS AND ORGANIZE PROVIDED, TO BE F THE CONTRACTOR THE FACILITY WILL F IT IS THE OBLIGATION OF CONTROL SYSTEM FOR AND O & M MANUALS.

## 

2/28/2021

DATE 12/28/20



KPK DESIGNED

RKR DRAWN

APP.

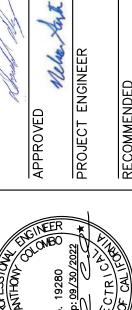
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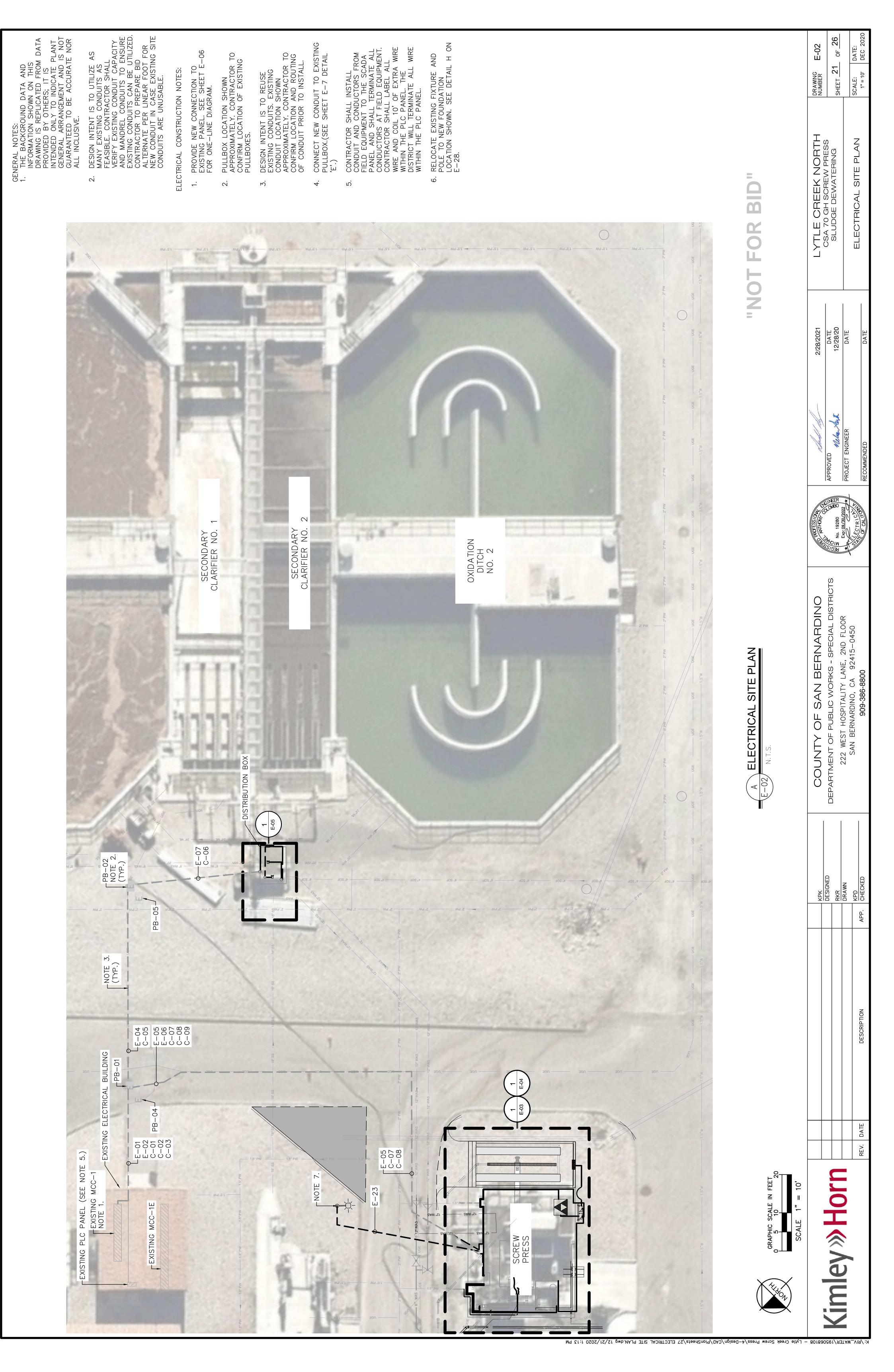
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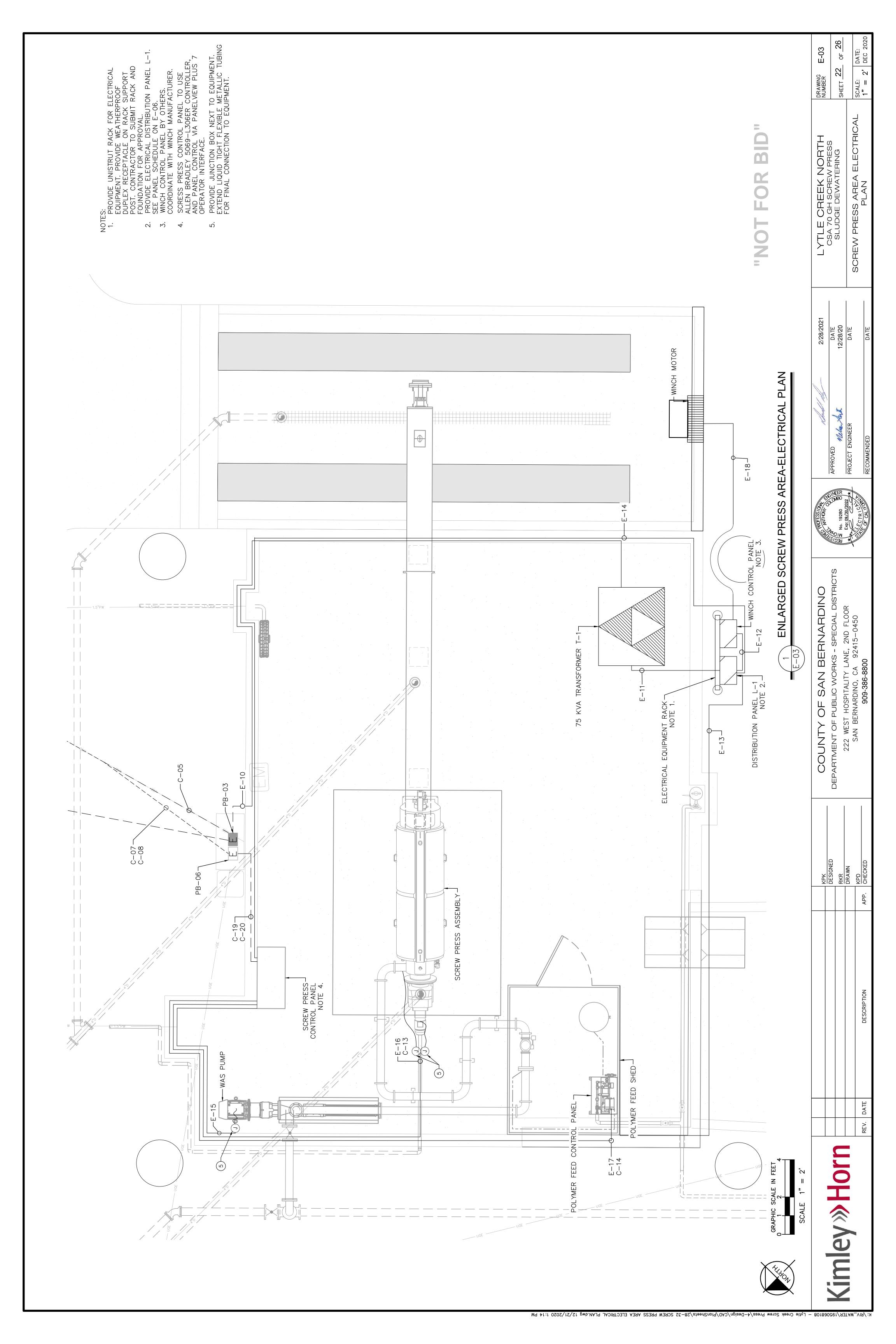


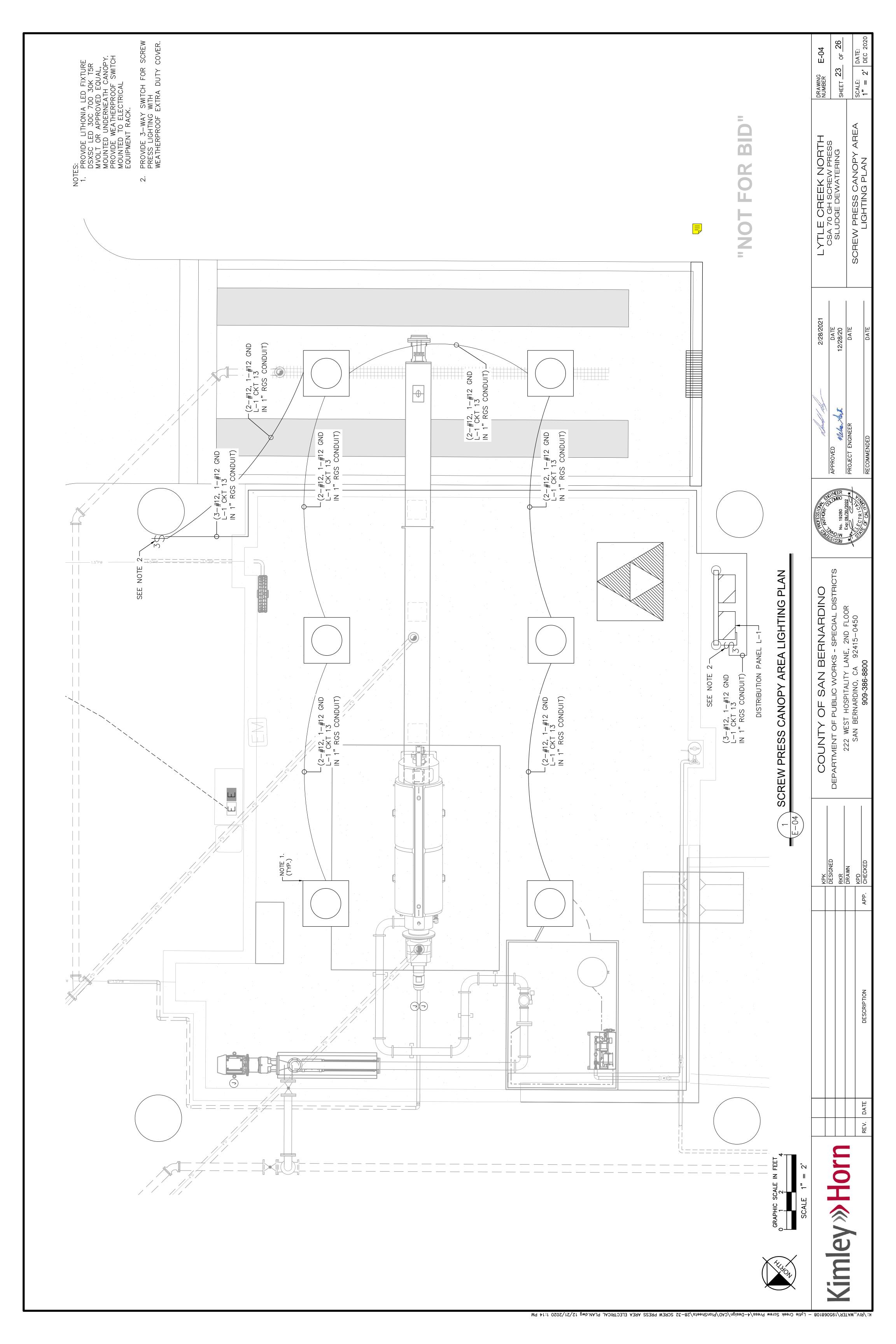
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CSA 70 GH SCREW PRESS	SLUDGE DEWATERING	ELECTRICAL GENERAL NOTES AND	SYMBOLS
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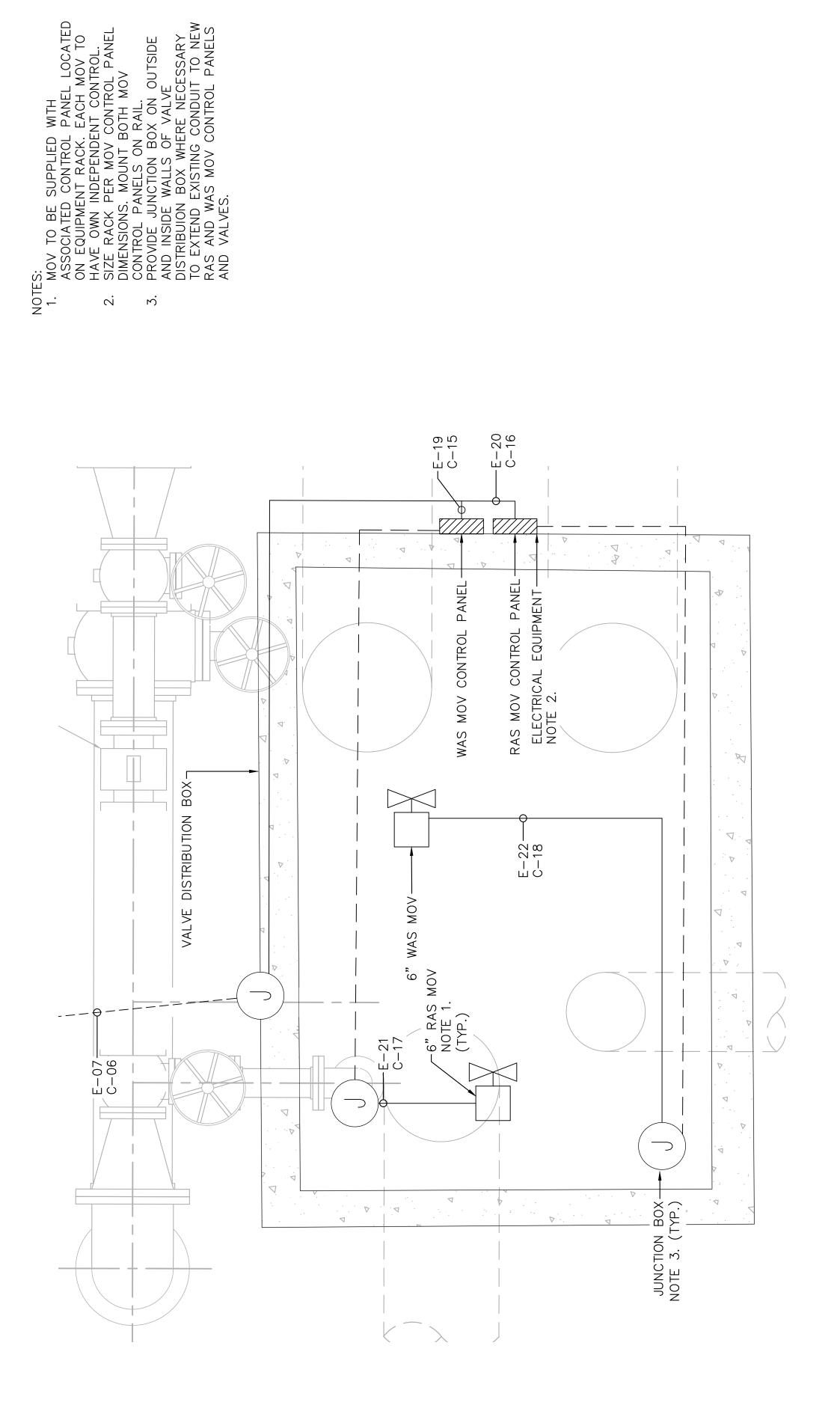
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LYTLE OREEK NORTH	SLUDGE DEWATERING	ELECTRICAL GENERAL NOTES AND SYMBOLS

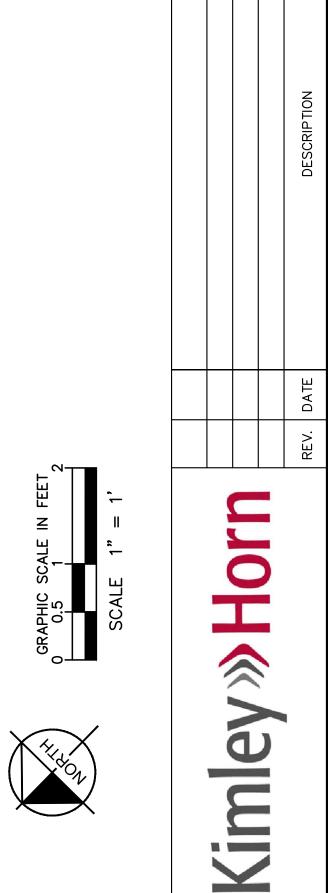
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**ENLARGED DISTRIBUTION BOX** 

X PX	DESIGNED	RKR	DRAWN	KPD	СНЕСКЕD
					APP.
					DESCRIPTION
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ANOHINA CAN	GINE ON THE STATE OF THE STATE	Exp: 09/30/2022	A A STANSON	AND CALIFORN
COUNTY OF SAN BERNARDINO	DEPARTMENT OF PUBLIC WORKS - SPECIAL DISTRICTS	222 WEST HOSPITALITY LANE, 2ND FLOOR	SAN BERNARDINO, CA 92415-0450	008-386-8800

Hand Mis	APPROVED Welle Lak	PROJECT ENGINEER	
(\$\frac{\partial \text{3}}{\partial \text{3}}	JONBO JONBO	* * * * * * * * * * * * * * * * * * * *	

LYTLE CREEK NORTH	SLUDGE DEWATERING	RAS/WAS MOV ELECTRICAL
2/28/2021	DATE 12/28/20	DATE

SHEET 24 OF 26

SCALE: DATE:

E-05

DRAWING NUMBER

CONTRACTOR TO PROVIDE ARC FLASH COORDINATION STUDY FOR EXISTING MCC-1, AS WELL AS PROPOSED PANEL L-1. (SEE SPECIFICATION SECTION 260573.19) CONSTRUCTION NOTES: ELECTRICAL

350, 4W  110,000  INCC-1  INCC	VOLTAGE:120/208				PANE	PANEL BUS:	200	200 AMPS		
HOLOOO HINCE—1  SIMCC—1  RIPTION HOLE BOOO BOA/3 1 42 2 7 2 7 2 9 4 4 6 0 7 D SHED PANEL BOOO BOA/3 1 42 42 4 4 7 6 7 25 7 25 7 25 7 25 7 25 7 25 7 25 7 25	PHASE, WIRES:30, 4W					MAIN:		BREAKE	œ	
HACC-1  RIPTION  VA  CB  CKT  A  B  CCKT  CB  VA  CONTROL PANEL  5000  60/3  11  42  A2  42  42  6  A2  A2  A2  A2  A2  A2  A2  A2  A2	SCCR (AMPS):10,000									
CONTROL PANEL   SOOO   GO/3   1   42   C   CKT   CB   VA   CONTROL PANEL   SOOO   GO/3   1   42   A   A   A   A   A   A   A   A   A	SOURCE: MCC-1									
5000       3       1       42       4 <td>DESCRIPTION</td> <td><b>A</b>&gt;</td> <td>88</td> <td>CK1</td> <td>∢</td> <td>B</td> <td>O</td> <td>, X</td> <td>89</td> <td>\$ DESCRIPTION</td>	DESCRIPTION	<b>A</b> >	88	CK1	∢	B	O	, X	89	\$ DESCRIPTION
D SHED PANEL       5000       3       42       4       4       4       4       6       7       25       4       4       6       7       6       6       7       25       6       6       7       6       7       6       7       6       7       6       7       6       7       7       8       7       8       7       8       7       8       7       10       8       7       10       8			5/08	1	42			2		SPACE
D SHED PANEL 3000 60/3 7 25		2000		3		42		4		SPACE
D SHED PANEL  3000  3000  3000  11  3000  11  3000  11  3000  11  3000  11  3000  11  25  12  14  8  9  14  10  11  13  20  14  14  15  16  17  28  18  17  ACE  ACE  ACE  ACE  ACE  ACE  ACE  AC		2000		5			42	9		SPACE
3000       9       25       10       9       7         SANOPY LIGHTING       360       11       11       12       12       12       12         SANOPY LIGHTING       360       20/1       13       2       14       14       14       16         CONTROL PANEL       3333       40/3       15       15       16	POLYMER FEED SHED PANEL	_	30/3	7	25			∞		SPACE
SANOPY LIGHTING       360       20/1       11       2       12       12       9         CONTROL PANEL       3533       40/3       15       28       16       16       9         CONTROL PANEL       3333       40/3       15       28       16       16       9         ACE       3333       19       28       18       9       9         ACE       21       28       18       9       9         ACE       21       28       18       9       9         ACE       21       28       18       9       9       9         ACE       23       19       24       9       1       1       1         ACE       10       24       9       24       9       1       1       1         ACE       10       24       9       24       9       1       1       1         ACE       10       24       9       24       9       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <td< td=""><td></td><td>3000</td><td></td><td>6</td><td></td><td>25</td><td></td><td>10</td><td></td><td>SPACE</td></td<>		3000		6		25		10		SPACE
SANOPY LIGHTING       360       20/1       13       2       14       14       18		3000		11			25	12		SPACE
CONTROL PANEL       3333       40/3       15       28       16       98       16       98       16       98       18       98       98       18       98       98       18       98       98       98       18       98	SCREW PRESS CANOPY LIGHTING		20/1	13	2			14		SPACE
ACE 3333 17 28 18 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		_	10/3	15		28		16		SPACE
ACE		3333		17			28	18		SPACE
ACE         21         0         22         8           ACE         23         0         24         8           TOTALS         96.4         94.4         94.4         AMPS         8		3333		19	28			20		SPACE
ACE 23 0 24 N N SUBTOTAL (VA): 34239	SPACE			21		0		22		SPACE
TOTALS 96.4 94.4 94.4 SUBTOTAL (VA): 34239	SPACE			23			0	24		SPACE
			ľ	TOTALS		94.4	94.4	AMPS		
	OAD CALCULATIONS:	SUE	3TOTAI	( ( ( ( ) ):	34239					



| L-1 120/208V 3ø 4W, NEMA 4X 10,000AIC

RAS MOV CONTROL PANEL

(<del>-</del>)

BOLD AND SOLID INDICATES NEW WORK

EGEND

GND

#4 BOND

**ONE-LINE DIAGRAM** 

EXOTHERMICALLY
CAD WELD TO
GROUND
TEST WELL.
SEE DETAIL A
E-07.

T-1 75 KVA 480-120/208V 34 NEMA 3R TRANSFORMER

20A 3P

(<del>-</del>)

20A 3P

SEE SITE PLAN AND CONDUIT AND CABLE SCHEDULE FOR CONDUIT AND CONDUCTOR SIZES

000	35 0.0144	35 0.0144	
42	5 68	2 6	
	75	75	<del>-</del>
	3	3	
	480	208	
	250	0	
	100	200	
	1	Mar-00	\ 
	Set of	Set of	5
	1	1	
	Copper	Copper	
	MN	WN	
42000	42000	6935	
42000	1	2	
Utility Published Data	T-1 PRIMARY	T-1 SECONDARY	
-	2	3	
		42000         42000         NM         Copper         1         Set of         1         100         250         480         3         75         5	42000         42000         NM         Copper         1         Set of         1         100         250         480         3         75         5           2         6935         NM         Copper         1         Set of         Mar-00         200         0         208         3         75         5

FAULT CURRENT AND VOLTAGE DROP	
3	_E-06

CONDUIT AND CABLE SCHEDULE

E-02

CONNECTION TO CONTROL PANEL VIA ABOVE GROUND AND JUNCTION BOX ON DISTRIBUTION BOX WALL.

RAS, WAS MOV CONTROL PANELS

TION BOX JUNCTION BOX

PB-05

PB-01

4-PR-#16 AWG

EXISTING

C-04

PB-02

4-PR-#16 AWG

EXISTING

PB-01

CAT6 CABLE

EXISTING

2,

SCREW PRESS CONTROL PANEL

PB-06

SCREW PRESS CONTROL PANEL

PB-06

PB-01

CAT6 CABLE

RAS, WAS MOV CONTROL PANELS

SCREW PRESS CONTROL PANEL
SCREW PRESS CONTROL PANEL

PB-04 PB-04

PLC PANEL
PLC PANEL

CAT6 CABLE

CONDUIT

NO. SIZE NEW/EXISTING QTY

NOT USED
NOT USED

NOT USED

MAKE FINAL CONNECTION TO CONTROL PANEL VIA ABOVE GROUND CONDUIT
AND JUNCTION BOX ON DISTRIBUTION BOX WALL.

MAKE FINAL CONNECTION TO CONTROL PANEL VIA ABOVE GROUND CONDUIT
AND JUNCTION BOX ON DISTRIBUTION BOX WALL.

USE JUNCTION BOX IF NECESSARY TO MAKE FINAL CONNECTION

POLYMER FEED SENSORS
RAS MOV CONTROL PANEL
WAS MOV CONTROL PANEL

SCREW PRESS SENSOR

SCREW PRESS CONTROL PANEL SCREW PRESS CONTROL PANEL RAS CONTROL PANEL

SCREW PRESS ASSEMBLY

12-PR-#16 AWG

EXISTING

C-11

C-10

EXISTING

C-12

C-13

POLYMER FEED CONTROL PANEL DISTRIBUTION BOX JUNCTION BOX DISTRIBUTION BOX JUNCTION BOX

USE JUNCTION BOX IF NECESSARY

SCREW PRESS CONTROL PANEL

SCREW PRESS CONTROL PANEL

WAS MOV PB-06

WAS CONTROL PANEL
SCREW PRESS CONTROL
PANEL
SCREW PRESS CONTROL
PANEL

CAT6 CABLE

C-20

RAS MOV

RAS CONTROL PANEL

WAS MOV CONTROL

10 AWG	DWG.	No.(S)	E-02		E-02	ı	I .	E-02		E-02	F_03	E_02	E-02		1		-	E-03	1	E-03	E-03	E-04		E-04	E-04		E-04	· )	E-04	+01-3	E-03		E-05	9		E-05	E-05	
10 AWG	SAGVADG	REMARKS									GEST TON	NOT OSED	MAKE FINAL CONNECTION TO CONTROL PANEL VIA ABOVE GROUND	CONDUIT AND JUNCTION BOX ON DISTRIBUTION BOX WALL.	NOT USED		NOT USED															MAKE FINAL CONNECTION TO CONTROL PANEL VIA ABOVE GROUND	CONDUIT AND JUNCTION BOX ON DISTRIBUTION BOX WALL.	MAKE FINAL CONNECTION TO CONTROL PANEL VIA ABOVE GROUND	CONDUIT AND JUNCTION BOX ON DISTRIBUTION BOX WALL.	JUNCTION BOX IF NECESSARY TO	JUNCTION BOX IF NECESSARY TO MAKE FINAL	
10 AWG				TRANSFORMER T-1	GROUND	1	I	RAS MOV , WAS MOV POWER	GROUND	IRANSFORMER 1-1 GROUND	ı	ı	•	GROUND	ı	ı	I	·	PANEL L-1 POWER	GROUND	GROUND		SCREW PRESS POWER	GROUND	WAS PUMP POWER	GROUND	SCREW MOTOR POWER	GROUND	POLYMER FEED MOTOR POWER	GROUND	WINCH MOTOR GROUND	RAS MOV POWER	GROUND	WAS MOV POWER	GROUND	RAS MOV POWER GROUND	WAS MOV POWER	POWER
10 AWG	STORS/CABLE	10	PB-01		PB-01			-02		PB-03	1		DISTRIBUTION BOX	JUNCTION BOX	ı		ı			PANEL L-1	WINCH CONROL PANEL	FRP SHED 60A PANEL	SCREW PRESS CONTROL	SCREW FRESS CONTROL PANEL	WAS PUMP		SCREW PRESS MOTOR		POLYMER FEED CONTROL	PANEL	WINCH MOTOR		CONTROL	INAC COTINGO SAW	WAS CONTROL PAINEL	RAS MOV	WAS MOV	
β θ - R -       θ - R -       θ - L -       θ - L -	CONDI	FROM	MCC-1		MCC-1		l	PB-01		PB-01		ı	- - - - -		ı		ı	PB-03							SCREW PRESS CONTROL	PANEL	PRESS	PANEL	SCREW PRESS CONTROL	PANEL	WINCH CONTROL PANEL	DISTRIBUTION BOX	JUNCTION BOX	DISTRIBUTION BOX	JUNCTION BOX	RAS CONTROL PANEL	WAS CONTROL PANEL	
						1	1				ı	1	9	10	1	1	1															12	12	12	12	12	12 12	12
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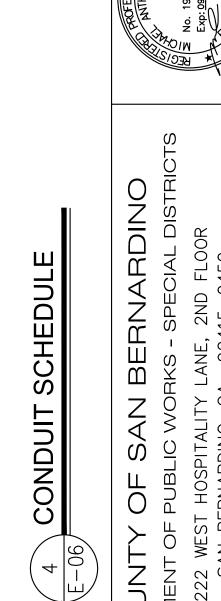
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K:\RIV\_WATER\195068108 - Lytle Creek Screw Press/4-Design/CAD\PlanSheets\28-32 SCREW PRESS AREA ELECTRICAL PLAN.dwg 12\21\2020 1:14 PM



## AOFESS/ON

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COUNTY OF SAN BERNARDINC PARTMENT OF PUBLIC WORKS - SPECIAL DISTF 222 WEST HOSPITALITY LANE, 2ND FLOOR SAN BERNARDINO, CA 92415-0450
COUNTY OF SAN BERNARDING

DEPARTMENT OF PUBLIC WORKS - SPECIAL
222 WEST HOSPITALITY LANE, 2ND FLOO
SAN BERNARDINO, CA 92415-0450
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KPK DESIGNED

RKR DRAWN

APP.

DESCRIPTION

DATE

REV.

Kimley » Horn

PROFESSION CASE	desired the	2/28/2021
NO.	APPROVED	DATE
K No. 19280 B	Melon Lat	12/28/20
Exp: 09/30/2022	PROJECT ENGINEER	DATE
AN ECTRICA		
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	NUMBER E-U6	E-06
SLUDGE DEWATERING	SHEET 25 OF	- OF <u>26</u>
	I	
AND LAND CINE A LIGHT STELLINE	SCALE:	DATE:
		DEC 2020

	HS SH	SC BVIT-BV
CSA 70 GH SCREW PRESS	SLUDGE DEWATERING	CONDUIT SCHEDULE AND ONE-LINE

DATE: DEC 2020

E-06

BD

