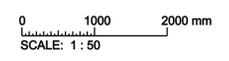


LIGHTING PLAN



GENERAL NOTES:

1. THE ENTIRE VOLUME OF THE PUMPHOUSE SHALL BE CONSIDERED A CLASS 1, DIVISION 1 GROUP D (T2D-215C) HAZARDOUS LOCATION. ALL ELECTRICAL EQUIPMENT INSTALLED WITHIN THE HAZARDOUS AREA SHALL BE SPECIFICALLY APPROVED BY UL OR FACTORY MUTUAL FOR THE ABOVE HAZARDOUS AREA CLASSIFICATION. ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE NEC (NFPA 70) FOR CLASS 1, DIVISION 1, GROUP D HAZARDOUS LOCATIONS.
2. THE ENTIRE VOLUME OF THE TANK SHALL BE CONSIDERED A CLASS 1, DIVISION 1 GROUP D (T2D-215C) HAZARDOUS LOCATION. ALL ELECTRICAL EQUIPMENT INSTALLED WITHIN THE HAZARDOUS AREA SHALL BE SPECIFICALLY APPROVED BY UL OR FACTORY MUTUAL FOR THE ABOVE HAZARDOUS AREA CLASSIFICATION. ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE NEC (NFPA 70) FOR CLASS 1, DIVISION 1, GROUP D HAZARDOUS LOCATIONS.
3. ALL METALLIC CONDUITS THAT ARE NOT ATTACHED TO A GROUNDED PANEL OR ENCLOSURE SHALL BE GROUNDED USING A GROUNDED BUSHING.

LIGHTING FIXTURE SCHEDULE								
CONTRACT DRAWING FIXTURE MARK	DETAIL NAME AND SHEET NUMBER	LAMP ORDERING DESIGNATION OR CODE	NO. AND SIZE OF LAMPS	TOTAL WATTS PER FIXTURE	FIXTURE VOLTAGE	MOUNTING HEIGHT A.F.F.	MOUNTING STYLE	REFERENCE NOTES
A	DETAIL A EL501	METAL HALIDE	1-175	220	120	2.59M	PENDENT	
A1	DETAIL A EL501	METAL HALIDE /Q150CL	1-175 /150	220/150	120	2.59M	PENDENT	
B	DETAIL G EL501	N/A	N/A	N/A	120	2.74M	SURFACE WALL	SUSTAIN 100W FOR 2 HOURS
C	DETAIL C EL501	LU100	1-100	150	120	2.59M	SURFACE	
ERF	DETAIL H EL501	25W - DC	1-25	25	12	2.43M	SURFACE WALL	

DATE	DESCRIPTION	APPR.	MARK

DESIGNED BY: JEC	CWD BY: SLO	SOLICITATION NO.:	DATE: JULY 2010
SUBMITTED BY: SLO	FILE NAME: OD98EL101.dwg	CONTRACT NO.:	
FILE NUMBER: 8414589	PLOT SCALE: 1/8" = 1'	FILE NUMBER:	
		PLOT DATE: 6/22/2010	

DOD, CUTN COVER STANDARDS STORAGE TANK/PUMPHOUSE LIGHTING PLAN (TANK 1)

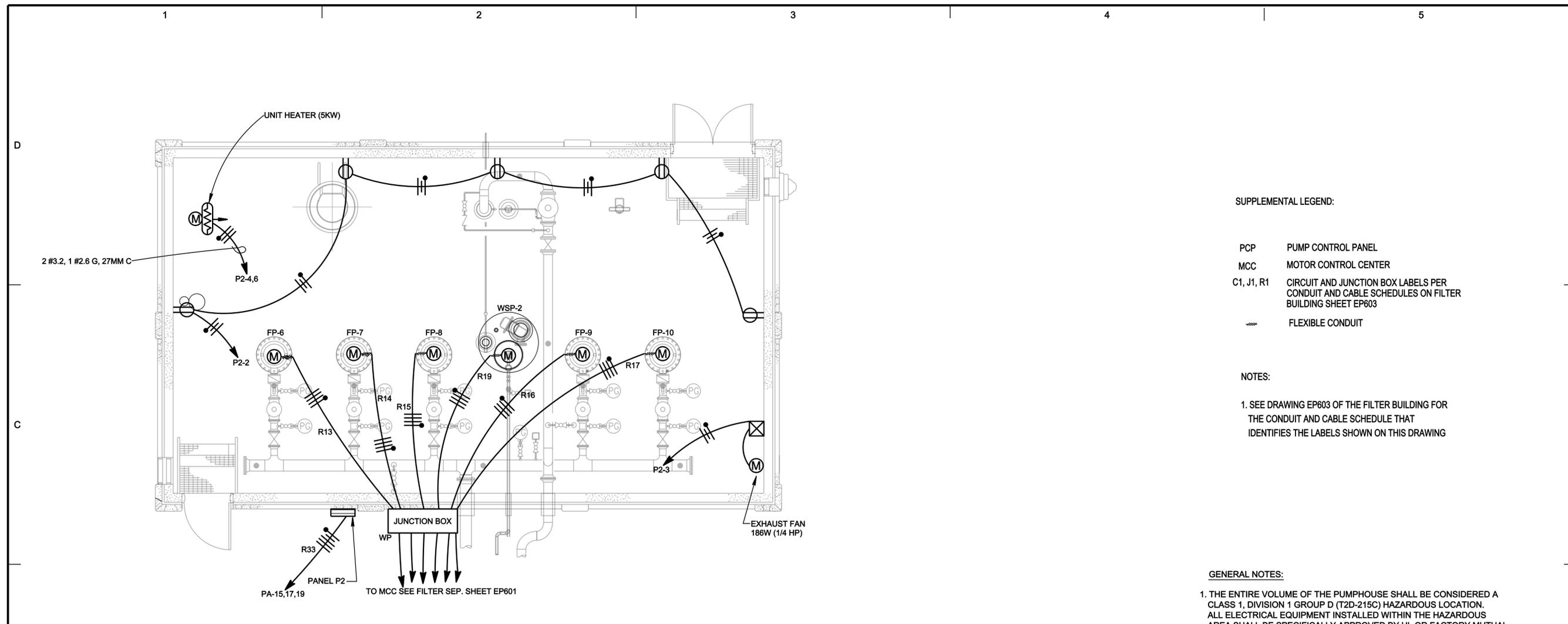
SHEET IDENTIFICATION NUMBER
EL101

DATE	DESCRIPTION	APPR.	MARK

DESIGNED BY: KEA	DESIGNED BY: KEA	DESIGNED BY: KEA	DESIGNED BY: KEA	DESIGNED BY: KEA	DESIGNED BY: KEA
DATE: JULY 2010	SOLICITATION NO.: Y	CONTRACT NO.: Y	FILE NUMBER: 008EP102.dwg	FILE NUMBER: 008EP102.dwg	FILE NUMBER: 008EP102.dwg
DATE: JULY 2010	SOLICITATION NO.: Y	CONTRACT NO.: Y	FILE NUMBER: 008EP102.dwg	FILE NUMBER: 008EP102.dwg	FILE NUMBER: 008EP102.dwg
DATE: JULY 2010	SOLICITATION NO.: Y	CONTRACT NO.: Y	FILE NUMBER: 008EP102.dwg	FILE NUMBER: 008EP102.dwg	FILE NUMBER: 008EP102.dwg
DATE: JULY 2010	SOLICITATION NO.: Y	CONTRACT NO.: Y	FILE NUMBER: 008EP102.dwg	FILE NUMBER: 008EP102.dwg	FILE NUMBER: 008EP102.dwg
DATE: JULY 2010	SOLICITATION NO.: Y	CONTRACT NO.: Y	FILE NUMBER: 008EP102.dwg	FILE NUMBER: 008EP102.dwg	FILE NUMBER: 008EP102.dwg

DOD, CUTN COVER STANDARDS STORAGE TANK/PUMPHOUSE POWER PLAN (TANK 2)

SHEET IDENTIFICATION NUMBER EP102



SUPPLEMENTAL LEGEND:

PCP PUMP CONTROL PANEL
MCC MOTOR CONTROL CENTER
C1, J1, R1 CIRCUIT AND JUNCTION BOX LABELS PER CONDUIT AND CABLE SCHEDULES ON FILTER BUILDING SHEET EP603
FLEXIBLE CONDUIT

NOTES:

1. SEE DRAWING EP603 OF THE FILTER BUILDING FOR THE CONDUIT AND CABLE SCHEDULE THAT IDENTIFIES THE LABELS SHOWN ON THIS DRAWING

GENERAL NOTES:

1. THE ENTIRE VOLUME OF THE PUMPHOUSE SHALL BE CONSIDERED A CLASS 1, DIVISION 1 GROUP D (T2D-215C) HAZARDOUS LOCATION. ALL ELECTRICAL EQUIPMENT INSTALLED WITHIN THE HAZARDOUS AREA SHALL BE SPECIFICALLY APPROVED BY UL OR FACTORY MUTUAL FOR THE ABOVE HAZARDOUS AREA CLASSIFICATION. ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE NEC (NFPA 70) FOR CLASS 1, DIVISION 1, GROUP D HAZARDOUS LOCATIONS.
2. THE ENTIRE VOLUME OF THE TANK SHALL BE CONSIDERED A CLASS 1, DIVISION 1 GROUP D (T2D-215C) HAZARDOUS LOCATION. ALL ELECTRICAL EQUIPMENT INSTALLED WITHIN THE HAZARDOUS AREA SHALL BE SPECIFICALLY APPROVED BY UL OR FACTORY MUTUAL FOR THE ABOVE HAZARDOUS AREA CLASSIFICATION. ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE NEC (NFPA 70) FOR CLASS 1, DIVISION 1, GROUP D HAZARDOUS LOCATIONS.
3. ALL METALLIC CONDUITS THAT ARE NOT ATTACHED TO A GROUNDED PANEL OR ENCLOSURE SHALL BE GROUNDED USING A GROUNDED BUSHING.
4. A MEANS SHALL BE PROVIDED FOR THE FUTURE REMOVAL OF EQUIPMENT WITHOUT THE TURNING OR REMOVAL OF CONDUIT IN HAZARDOUS LOCATIONS. THIS MAY BE ACCOMPLISHED BY THE INSTALLATION OF AN APPROPRIATE EXPLOSION PROOF UNION AT OR NEAR THE CONDUIT ENTRANCE TO THE ENCLOSURE. UNION SHALL BE RATED FOR THE HAZARDOUS CLASSIFICATION LISTED ABOVE.

POWER PLAN

0 1000 2000 mm
SCALE: 1 : 50

Ck	Description	Connected kVA	OC Amps	OC Amps	OC Amps	Connected kVA	Description	Ck
1	LIGHTS	1.560	20	1	A	20	1	2
3	EXHAUST FAN	0.187	20	1	B	30	2	4
5	SUMP PUMP	1.000	20	1	C	20	1	6
7	TUN EX FAN	1.000	20	1	A	20	1	8
9	SPARE	1.000	20	1	B	20	1	10
11	SPARE	1.000	20	1	C	20	1	12

ENCLOSURE: NEMA 4		WIRING: 3 PHASE 4 WIRE	
MOUNTING: Surface		VOLTAGE: 208.00	
OC DEVICE TYPE: Breaker		BUS CONTINUOUS RATING(A): 100.00	
DEVICE FAMILY: Bolt On		BUS WITHSTAND RATING(A): 10000.0	
NOTES: 50 AMP MAIN BREAKER			

Analysis Information:			
Load	kVA	Amps	Ini. Sym. RMS Fault Current:
Connected	15.24	42.29	Three Phase: 1513.59
Demand	15.24	42.29	Single Line: 960.96
Design	17.25	47.89	Line to Line: 0.00

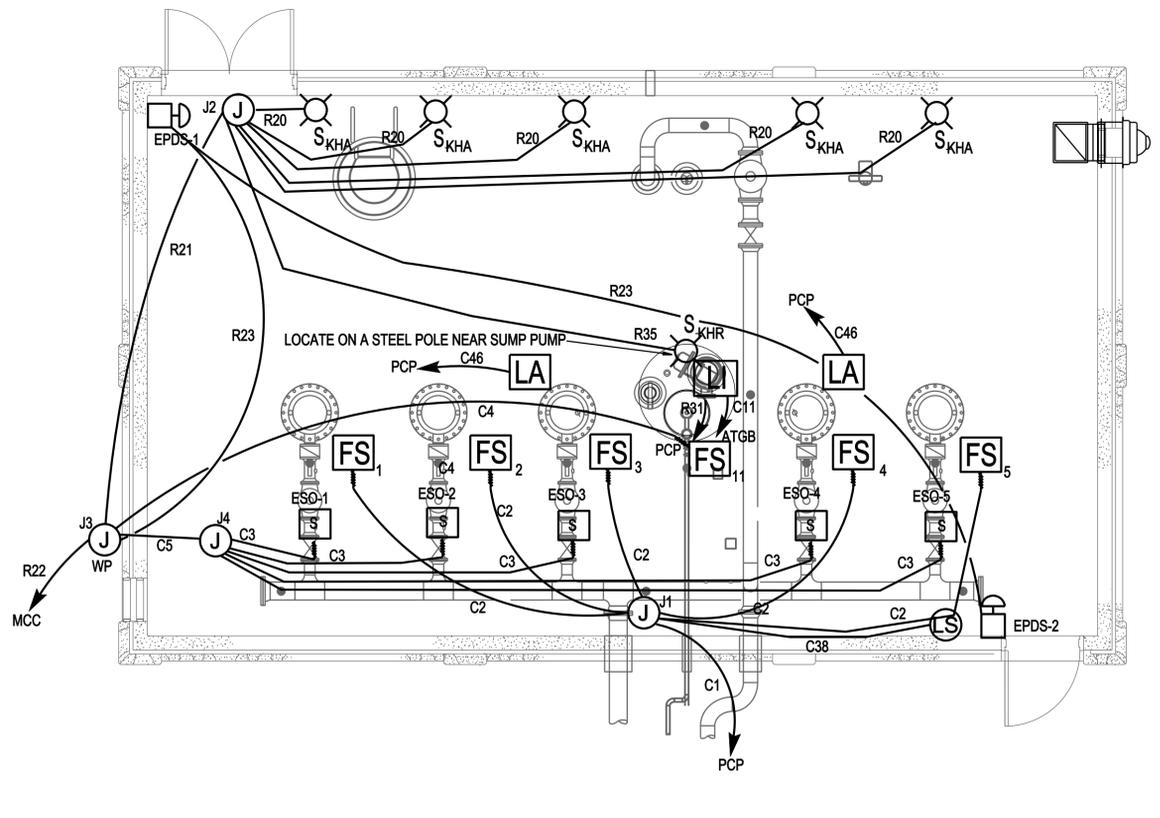
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DATE	DESCRIPTION	APPR.	MARK

DESIGNED BY: KEP	CWD BY: SLO	SOLICITATION NO.:	DATE: JULY 2010
DWN BY: KEP	FILE NUMBER:	CONTRACT NO.:	
SUBMITTED BY: R.L.S.	FILE NUMBER:		
FILE NAME: 008BE1101.dwg			
SIZE: 841x589	PLOT SCALE: 1/8" = 1'-0"		

DOD, CUTN COVER STANDARDS STORAGE TANK/PUMPHOUSE
CONTROLS PLAN (TANK 1)

SHEET IDENTIFICATION NUMBER
E1101



CONTROLS PLAN
 0 1000 2000 MM
 SCALE: 1 = 50

- SUPPLEMENTAL LEGEND:**
- JUMBO MUSHROOM PUSHBUTTON STATION 1-NC MOMENTARY CONTACT, MOUNT AT 30M AFF.
 - KEYED HAND-AUTO SWITCH WITH RUN LIGHT
 - KEYED HAND-REMOTE SWITCH WITH RUN LIGHT & STOP START
 - LEVEL ALARM (CAPABLE OF ALARMING AT 2 LEVELS)
 - LEVEL INDICATOR
 - FLOW SWITCH W/ IDENTIFYING NUMBER
 - EPDS EMERGENCY POWER DOWN STATION
 - PCP PUMP CONTROL PANEL
 - MCC MOTOR CONTROL CENTER
 - ATGB ATG BACKBOARD
 - C1, J1, R1 CIRCUIT AND JUNCTION BOX LABELS PER CONDUIT AND CABLE SCHEDULES ON FILTER BUILDING SHEET EP603
 - SOLENOID OPERATOR ON VALVE
 - FLEXIBLE CONDUIT
 - LIQUID SENSOR ON FLOOR

NOTES:

- SEE DRAWING EP603 OF THE FILTER BUILDING FOR THE CONDUIT AND CABLE SCHEDULE THAT IDENTIFIES THE LABELS SHOWN ON THIS DRAWING

NOTES:

- THE ENTIRE VOLUME OF THE PUMPHOUSE SHALL BE CONSIDERED A CLASS 1, DIVISION 1 GROUP D (T2D-215C) HAZARDOUS LOCATION. ALL ELECTRICAL EQUIPMENT INSTALLED WITHIN THE HAZARDOUS AREA SHALL BE SPECIFICALLY APPROVED BY UL OR FACTORY MUTUAL FOR THE ABOVE HAZARDOUS AREA CLASSIFICATION. ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE NEC (NFPA 70) FOR CLASS 1, DIVISION 1, GROUP D HAZARDOUS LOCATIONS.
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- A MEANS SHALL BE PROVIDED FOR THE FUTURE REMOVAL OF EQUIPMENT WITHOUT THE TURNING OR REMOVAL OF CONDUIT IN HAZARDOUS LOCATIONS. THIS MAY BE ACCOMPLISHED BY THE INSTALLATION OF AN APPROPRIATE EXPLOSION PROOF UNION AT OR NEAR THE CONDUIT ENTRANCE TO THE ENCLOSURE. UNION SHALL BE RATED FOR THE HAZARDOUS CLASSIFICATION LISTED ABOVE.
- KEYED HAND-AUTO AND HAND-REMOTE SWITCHES WILL BE KEYED ALIKE WITH THE CORRESPONDING KEYED HOA OR NORMAL-REMOTE SWITCHES IN THE MCC. SEE FILTER/SEPARATOR BLDG. SHEET EP602.

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gfred@ec

