ELECTRICAL PANEL: CW-LP01

Area Served: COLLECTOR WELL PS / STORMWATER PS

Location: COLLECTOR WELL PS ELECTRIC RM

SURFACE MOUNT | 225 A | 120/208 V | 3 Ph | 4 Wire | Fault Rating: 22,000

PROVIDE WITH 225A MAIN BREAKER AND FEED THROUGH LUGS

No.	Description	Brkr. Amps	Load A	Load B	Load C	Load C	Load B	Load A	Brkr. Amps	Description	No.
1	CW-CP03	20	250					100	20	CW-CP02	2
3	CW-EF02	20		562			250		20	SW-CP03	4
5					562	1500			20	CW-SP01	6
7	CW-EF03	20	562					360	20	GENERATOR ROOM RECEPTACLES	8
9				562			900		20	ELECTRICAL ROOM RECEPTACLE	10
11	CW-HP01	60			3744	360			20	OPERATOR DESK RECEPTACLES	12
13			3744					720	20	COLLECTOR WELL ROOM RECEPTACLES	14
15	CW-HP02	60		3744			690		20	COLLECTOR WELL DEHUMIDIFIER RECEPT.	16
17					3744	250			15	RESTROOM RADIANT HEATER	18
19	CW-GEN01 (JACKET WATER HEATER, BATTERY CHARGER)	50	4000					250			20
21				4000			500		20	STORMWATER PUMP STATION HEAT TRACE	22
23	CW-AHU01	45			4576	360			20	WELL BUILDING ROOF RECEPTACLES	24
25			4576					750	20	HOT WATER HEATER	26
27	CW-AHU02	45		4576			750				28
29					4576	360			20	S. WATER PS RECEPTACLES	30
31	CW-CP04	20	250					188	20	S. WATER PS EXTERIOR LIGHTS	32
33	CW-AD01	20		250			452		20	S.WATER PS INTERIOR LTS, SW-LVR02	34
35	CW-CP01	20			250	250			20	SW-LVR01 AND SW-LVR03	36
37	CW-CP05	20	250					2012	20	SW-SF01 AND SW-EF01	38
39	SW-CP01	20		250			2012				40
41	SW-CP02	20			250	2012					42
			13632	13944	17702	5092	5554	4380			
Totals			Phase A	Phase B		Phase C		Total Wattage(VA		Capacity	
			18012	19498		22794		60304		81060	

ELECTRICAL PANEL: CW-LP02

Area Served: COLLECTOR WELL PS / STORMWATER PS

Location: COLLECTOR WELL PS ELECTRIC RM

SURFACE MOUNT | 225 A | 120/208 V | 3 Ph | 4 Wire | Fault Rating: 22,000

PROVIDE WITH 225A MAIN BREAKER - -

No.	Description	Brkr. Amps	Load A	Load B	Load C	Load C	Load B	Load A	Brkr. Amps	Description	No.
1	SPARE	20						988	20	GENERATOR ROOM LIGHTING	2
3	CW-EF04	20		968			682		20	ELECTRICAL ROOM LIGHTING	4
5					988	984			20	WELL ROOM LIGHTING	6
7	CW-EF05	20	988					763	20	WELL HOUSE BUILDING EXTERIOR LIGHTING	8
9				968			527		20	SW-EF02, SW-LVR01, AND SW-LVR03	10
11	CW-FM05 & 06: FLOW METERS	20			250	527					12
13	WELL ROOM SUMP PUMP	20						527			14
15	WELL ROOM SUMP PUMP	20					250		20	CW-LVR08 AND CW-LVR09	16
17	CRAWL SPACE SUMP PUMP	20								SPACE	18
19	CRAWL SPACE SUMP PUMP	20								SPACE	20
21	SPARE	20								SPACE	22
23	SPARE	20								SPACE	24
25	SPARE	20								SPACE	26
27	SPARE	20								SPACE	28
29	SPARE	20								SPACE	30
31	SPACE									SPACE	32
33	SPACE									SPACE	34
35	SPACE									SPACE	36
37	SPACE									SPACE	38
39	SPACE									SPACE	40
41	SPACE									SPACE	42
			988	1976	1238	1511	1459	2278			
Totals			Phase A	Phase B		Phase C		Total Wattage(VA		Capacity	
			3266	3435		2749		9450		81060	

INTRUSION ALARM SCHEDULE

ID	LOCATION	DOOR	SWITCH TYPE	CONTACTS
CW-IA01	WELL HOUSE BUILDING	110	TRACK MOUNT OVERHEAD DOOR CONTACT SWITCH	(1) NO*
CW-IA02	WELL HOUSE BUILDING	106	HEAVY DUTY, SIDE MOUNT ROTARY LIMIT SWITCH. ADJUSTABLE LEVER ACTUATOR WITH ROLLER	(1) NO*
CW-IA03	WELL HOUSE BUILDING	102	TRACK MOUNT OVERHEAD DOOR CONTACT SWITCH	(1) NO*
CW-IA04	WELL HOUSE BUILDING	101	HEAVY DUTY, SIDE MOUNT ROTARY LIMIT SWITCH. ADJUSTABLE LEVER ACTUATOR WITH ROLLER	(1) NO*
CW-IA05	WELL HOUSE BUILDING	103	HEAVY DUTY, SIDE MOUNT ROTARY LIMIT SWITCH. ADJUSTABLE LEVER ACTUATOR WITH ROLLER	(1) NO*
CW-IA06	WELL HOUSE BUILDING	105	HEAVY DUTY, SIDE MOUNT ROTARY LIMIT SWITCH. ADJUSTABLE LEVER ACTUATOR WITH ROLLER	(1) NO*
CW-IA07	WELL HOUSE BUILDING	111	HEAVY DUTY, SIDE MOUNT ROTARY LIMIT SWITCH. ADJUSTABLE LEVER ACTUATOR WITH ROLLER	(1) NO*
CW-IA08	WELL HOUSE BUILDING-ROOF ACCESS PANEL	NA	HEAVY DUTY, TOP MOUNT ROTARY LIMIT SWITCH. SPRING WIRE ACTUATOR	(1) NO*
CW-IA09	WELL HOUSE BUILDING-ROOF ACCESS PANEL	NA	HEAVY DUTY, TOP MOUNT ROTARY LIMIT SWITCH. SPRING WIRE ACTUATOR	(1) NO*
CW-IA10	CW-CTU01: UTILITY CT CABINET	NA	HEAVY DUTY, SIDE MOUNT ROTARY LIMIT SWITCH. ADJUSTABLE LEVER ACTUATOR WITH ROLLER	(1) NO*
CW-IA11	WELL HOUSE BUILDING-ROOF ACCESS PANEL	NA	HEAVY DUTY, TOP MOUNT ROTARY LIMIT SWITCH. SPRING WIRE ACTUATOR	(1) NO*
CW-IA12	WELL HOUSE BUILDING-ROOF ACCESS PANEL	NA	HEAVY DUTY, TOP MOUNT ROTARY LIMIT SWITCH. SPRING WIRE ACTUATOR	(1) NO*
CW-IA13	WELL HOUSE BUILDING-ROOF ACCESS PANEL	NA	HEAVY DUTY, TOP MOUNT ROTARY LIMIT SWITCH. SPRING WIRE ACTUATOR	(1) NO*
CW-IA14	WELL HOUSE BUILDING	106	HEAVY DUTY, SIDE MOUNT ROTARY LIMIT SWITCH. ADJUSTABLE LEVER ACTUATOR WITH ROLLER	(1) NO*
SW-IA01	EXISTING PUMP STATION BUILDING	NA	HEAVY DUTY, SIDE MOUNT ROTARY LIMIT SWITCH. ADJUSTABLE LEVER ACTUATOR WITH ROLLER	(1) NO*
SW-IA02	EXISTING PUMP STATION BUILDING- ROOF ACCESS PANEL	NA	HEAVY DUTY, TOP MOUNT ROTARY LIMIT SWITCH. SPRING WIRE ACTUATOR	(1) NO*
SW-IA03	EXISTING PUMP STATION BUILDING- ROOF ACCESS PANEL	NA	HEAVY DUTY, TOP MOUNT ROTARY LIMIT SWITCH. SPRING WIRE ACTUATOR	(1) NO*
SW-IA04	EXISTING PUMP STATION BUILDING- ROOF ACCESS PANEL	NA	HEAVY DUTY, TOP MOUNT ROTARY LIMIT SWITCH. SPRING WIRE ACTUATOR	(1) NO*

*CONTACT STATUS REFERS TO POSITION WHEN THE MONITORED DOOR IS OPEN

LIGHTING FIXTURE SCHEDULE

TAG	TYPE	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL NUMBER	VOLTS	LAMPS	WATTS	COMMENTS
F1	LED HIGH BAY	LITHONIA	IBL 24L WD 120V LP740 DLC	120	24,000 LUMEN LED	245	SUITABLE FOR AMBIENT TEMPERATURE UP TO 55 DEG C; L95 AT 60,000 HOURS;PROVIDE WITH HANGER CHAIN
F2	LED HIGH BAY	LITHONIA	IBL 12L WD 120V LP740 DLC	120	12,000 LUMEN LED	125	SUITABLE FOR AMBIENT TEMPERATURE UP TO 55 DEG C; L95 AT 60,000 HOURS;PROVIDE WITH HANGER CHAIN
F3	4' CLASS 1, DIVISION 2 LED INDUSTRIAL STRIP	HUBBELL	HLHFXL-50L-4-2L-U	120	5,450 LUMEN LED	46	PROVIDE WITH HANGER CHAIN
G1	LED VAPORTIGHT WALL MOUNT FIXTURE	LITHONIA	OLVTWM	120	600 LUMEN LED	15	
G2	CLASS 1, DIVISION 2 LED VAPORTIGHT WALL MOUNT FIXTURE	HUBBELL	VW1 VH8LU15 VL15LG	120	20 W LED	20	WALL OUTLET GLOBE WITH FROSTED GLASS GLOBE
G3	4' WALL MOUNT LED	LITHONIA	WL4 41L D43 LP840 N80 EL14L	120	3,567 LUMEN LED	34	PROVIDE WITH EMERGENCY BATTERY PACK. WALL MOUNT 7' AFF.
J1	EXTERIOR WALL MOUNT FIXTURE	LITHONIA	DSXW2 LED 30C 1000 TFTM 120 DDBXD	120	8,604 LUMEN LED	109	INSTALL FIXTURE 18' ABOVE FINISHED GRADE
J2	EXTERIOR WALL MOUNT FIXTURE	LITHONIA	DSXW2 LED 20C 700 TFTM 120 DDBXD	120	4,324 LUMEN LED	47	INSTALL FIXTURE CENTERED WITHIN NEW BRICK
X1	EXIT SIGN/LIGHT	LITHONIA	ECR LED M6	120	1.8 W LED	3.8	
X2	CLASS 1, DIVISION 2 EXIT SIGN/LIGHT	LITHONIA	LHZ618 S 1 R N0806 SD	120	8W INCAND.	16	

DUCTBANK SCHEDULE

TAG	FROM	TO	DUCT BANK TYPE	CIRCUIT TYPE	CONDUIT SIZE	CONDUIT TYPE	CONDUCTOR QUANTITIES	CABLE CIRCUIT NUMBERS
DB1	UTILITY TERMINAL POLE	UTILITY TRANSFORMER	DIRECT BURIED	P	4"	SCH. 40 PVC	BY UTILITY	NA
DB2	UTILITY TRANSFORMER	CT/PT CABINET	DIRECT BURIED	P	(4) 3-1/2"	SCH. 40 PVC	(4) 600 KCMIL	NA
DB3	WELL HOUSE BUILDING	EXISTING PUMP STATION BUILDING	DIRECT BURIED	P	1"	SCH. 40 PVC	(2)#12, #12G, (2)#12, #12G, (2)#12, #12G, (2)#12, #12G, (3)#12,#12G	CW-LP01:30, CW-LP01:32, CW-LP01:34, CW-LP01:36 CW-LP02:10,12,14
				P	1"	SCH. 40 PVC	(3)#12, #12G, (3)#10, #10G	CW-MCC01:9H, CW-MCC01:8K
				P	1"	SCH. 40 PVC	(2)#12, #12G, (3)#12, #12G, (2)#12, #12G	CW-LP01:41, CW-LP01:38,40,42, CW-LP01:22
				C	2"	SCH. 40 PVC	(64)#14, (2)#14	SW-CP01-C01, CW-CP02:C01
				P	2"	PVC COATED RGS	(3)3/0, #4G	SW-VFD01
				P	2"	PVC COATED RGS	(3)3/0, #4G	SW-VFD02
				P	2"	PVC COATED RGS	(3)3/0, #4G	SW-VFD03
				I	1"	PVC COATED RGS	(6) #18 3-WIRE TS, (6)#14	SW-CP03:I01, SW-CP03:I02, SW-CP03:I03, SW-CP03:I04, SW-CP03:I05, SW-CP03:I06, SW-CP03:C01, SW-CP03:C02, SW-CP03:C03
				P	1"	SCH. 40 PVC	(3)#8, #10G	CW-MCC01:5H
				C	1"	SCH. 40 PVC	(6) #14	SW-CP01:C09
				-	(3) 2"	SCH. 40 PVC	-	SPARE CONDUITS
DB4	WELL HOUSE BUILDING	DOUBLE HANDHOLE	DIRECT BURIED	P	1-1/2"	SCH. 40 PVC	(3)#1, #8G	CW-MCC01:6D
				P	1-1/2"	SCH. 40 PVC	(3)#1, #8G	CW-MCC01:6G
				P	1-1/2"	SCH. 40 PVC	(3)#1, #8G	CW-MCC01:6L
				P	1-1/2"	SCH. 40 PVC	(3)#1, #8G	CW-MCC01:7D
				-	(2) 2"	SCH. 40 PVC	-	SPARE CONDUITS
DB5	WELL HOUSE BUILDING	WELL 6	DIRECT BURIED	P	1-1/2"	SCH. 40 PVC	(3)#1, #8G	CW-MCC01:7G
					1-1/2"	SCH. 40 PVC	(3)#1, #8G	CW-MCC01:7L
				-	2"	SCH. 40 PVC	-	SPARE CONDUIT
DB6	WELL HOUSE BUILDING	HANDHOLE	DIRECT BURIED	-	(2) 2", (4) 1"	SCH. 40 PVC	-	SPARE CONDUITS
DB7	HANDHOLD	HANDHOLE	DIRECT BURIED	-	(2) 2", (2) 1"	SCH. 40 PVC	-	SPARE CONDUITS
DB8	WELL 6	WELL 6A	DIRECT BURIED	P	1-1/2"	SCH. 40 PVC	(3)#1, #8G	CW-MCC01:7L
DB9	WELL HOUSE BUILDING	MP 1.7	DIRECT BURIED	I	3"	SCH. 40 PVC	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	NA
DB10	CT/PT CABINET	WELL HOUSE BUILDING	DIRECT BURIED	P	(4) 3-1/2"	SCH. 40 PVC	(4) 600 KCMIL, 4/0G	NA
				C	1"	SCH. 40 PVC	(2) #14	CW-CP02:C01

E702

FILE NAME = G:\Ifiles\18023\Work Order 3 MO Ave Ph2\CADD Sheets\DB76G99-sht-KLA Elec7.dgn

KLINGNER & ASSOCIATES, P.C. Engineers · Architects · Surveyors

USER NAME = seb	DESIGNED - JJN	REVISED -	
	DRAWN - JJN	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 9/25/2014	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELECTRIC SCHEDULES
MISSOURI AVENUE DEEP WELL FACILITY

SCALE: AS NOTED | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	82-4T-1	ST. CLAIR	185	171

CONTRACT NO. 76G99

ILLINOIS FED. AID PROJECT