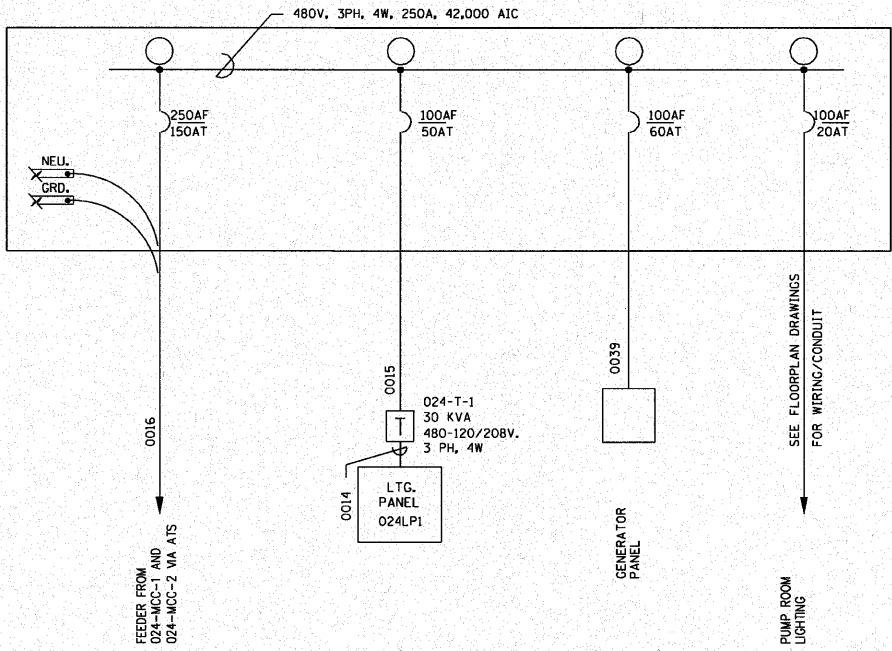




024-PP-1 ONE-LINE DIAGRAM
PUMP STATION ELECTRICAL ROOM

NTS

SURFACE MOUNTED NEMA <u>1</u>		PANEL SCHEDULE				<u>150A</u> MAIN BREAKER		
<u>277 / 480</u> V, <u>3</u> PHASE, <u>4</u> WIRE		<u>024-PP-1</u>				<u>250A</u> MAIN BUS		
RATING <u>42,000</u> A.I.C.						<u>100A</u> GRD. BUS		
CKT. NO.	TRIP/P	DESCRIPTION	PHASE			DESCRIPTION	TRIP/P	CKT. NO.
			A	B	C			
1			•			GENERATOR PANEL		2
3	50/3	024-T-1		•			60/3	4
5					•			6
7	30/1	PUMP ROOM LIGHTING	•			SPARE		8
9	20/1	INTERMEDIATE LEVEL LIGHTING		•			20/3	10
11	20/1	DISCHARGE LEVEL LIGHTING			•			12
13			•			SPARE		14
15	20/3	SPARE		•			20/3	16
17					•			18
19			•			SPARE		20
21	20/3	SPARE		•			20/3	22
23					•			24
25			•			SPACE		26
27		SPACE		•				28
29					•			30
31			•			SPACE		32
33		SPACE		•				34
35					•			36
37			•			SPACE		38
39		SPACE		•				40
41					•			42
TOTALS:			-	-	-	-		

SURFACE MOUNTED NEMA 1		PANEL SCHEDULE				100A MAIN BREAKER		
120 / 208 V, 3 PHASE, 4 WIRE		024-LP-1				225A MAIN BUS		
RATING 10,000 A.I.C.						100A GRD. BUS		
CKT. NO.	TRIP/P	DESCRIPTION	PHASE			DESCRIPTION	TRIP/P	CKT. NO.
			A	B	C			
1	20/1	PLC PANEL 024-RTU-1	•			MASTER PLC PANEL 024-PLC-1	20/1	2
3	20/1	EXHAUST FAN #3 024-EF-3		•		EXHAUST FAN #4 024-EF-4	20/1	4
5	20/1	TEMP CONTROL PANEL 024-TCP-1			•	ELECTRICAL ROOM LIGHTING	20/1	6
7	20/1	ELECTRICAL ROOM RECEPTACLES	•			TRASHRACK ROOM LIGHTING	20/1	8
9	20/1	PUMP ROOM RECEPTACLES		•		STRAIRWELL LIGHTING	20/1	10
11	20/1	LOWER LEVEL LIGHTING			•	LOWER LEVEL RECEPTACLES	20/1	12
13	30/1	DISCHARGE FLOOR - TRASH ROOM	•			INT/DISCHARGE LVL RECEPTACLES	20/1	14
15	20/1	FIRE ALARM PANEL 024-FP-1		•		INTRUSION PANEL 024-IP-1	20/1	16
17	30/1	INTERMEDIATE FLOOR - TRASH RM			•	EXTERIOR LIGHT FIXTURES	20/1	18
19	20/1	WET WELL LIGHTING	•			LIGHTING CONTACTOR 024-CNT-1	20/1	20
21	20/1	ELECTRICAL ROOM LIGHTING		•		ELECTRICAL ROOM RECEPTACLES	20/1	22
23	20/1	PUMP ROOM LIGHTING			•	TRASHRACK ROOM RECEPTACLES	20/1	24
25	20/1	PURGE PANEL NO.1	•			PURGE PANEL NO.2	20/1	26
27	20/1	PURGE PANEL NO.3		•		PURGE PANEL NO.4	20/1	28
29	20/1	PURGE PANEL NO.5			•	PURGE PANEL NO.6	20/1	30
31	20/1	PURGE PANEL NO.7	•			PURGE PANEL NO.11	20/1	32
33	20/1	PURGE PANEL NO.12		•		SPACE	20/1	34
35	20/1	SPARE			•	SPARE	20/1	36
37	20/1	SPARE	•			SPARE	20/1	38
39	20/1	SPARE		•		SPARE	20/1	40
41	20/1	SPARE			•	SPARE	20/1	42
TOTALS:			-	-	-	-		

NOTES:

- SEE DRAWING E34 FOR CONDUCTOR AND CONDUIT REQUIREMENTS.
- CIRCUIT BREAKER, CONDUIT, AND CONDUCTORS FEEDING GENERATOR PANEL SHALL BE SIZED AND COORDINATED WITH GENERATOR REQUIREMENTS.
- GENERATOR PANEL AND TRANSFORMER SHALL BE FURNISHED AND INSTALLED BY GENERATOR MANUFACTURER AND LOCATED IN GENERATOR ENCLOSURE. SEE SECTION 16E.

E7

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PUMP STATION NO. 24
RELOCATION

ELECTRICAL SCHEDULES

SCALE: N/A

DATE: 11-22-10

DRAWN BY: MS

CHECKED BY: MS