

480/277 VOLTS
3Ø, 4 WIRE

PP-AB

TYPE:
MOUNT: SURFACE

MAIN BKR
225 A 3 P

DESCRIPTION	WIRE	CKT BKR			VOLT AMPERE			VOLT AMPERE			CKT BKR			WIRE	DESCRIPTION	
		TRIP	POLE	NO	ØA	ØB	ØC	ØA	ØB	ØC	NO	POLE	TRIP			
ELECTRIC WATER HEATER EWH-1	5	30	3	1 3 5	7000	7000	7000	10000	10000	10000	2 4 6	3	40	2	ELEVATOR	
TX-LP-AB	3	70	3	7 9 11	15000	15000	15000	12500	12500	-	8 10 12	2	70	6	TX-LP-AB1	
AHU-1	5	25	3	13 15 17	4000	4000	4000	3000	3000	3000	14 16 18	3	20	8	AHU-2	
AHU-3	5	30	3	19 21 23	5000	5000	5000	5000	5000	5000	20 22 24	3	25	5	AHU-4	
HP-1	8	15	3	25 27 29	2000	2000	2000	1500	1500	1500	26 28 30	3	15	8	HP-2	
HP-3	8	20	3	31 33 35	2000	2000	2000	2000	2000	2000	32 34 36	3	15	8	HP-4	
SPARE		20	3	37 39 41							38 40 42	3	20		SPARE	
		TOTAL			35000	35000	35000	34000	34000	21500	TOTAL					
S.E. RATED					PHASE TOTAL		TOTAL LOAD									
					69000	69000	56500	194500								

120/208 VOLTS
3ø, 4 WIRE

LP-AB

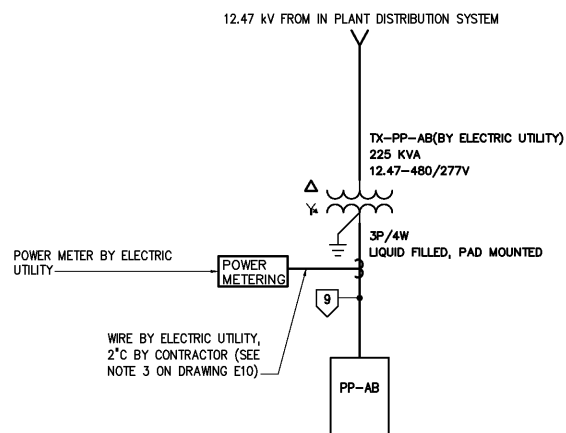
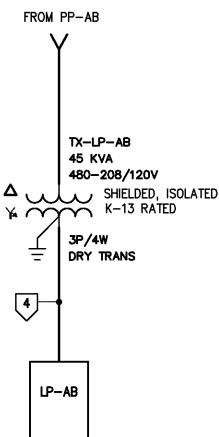
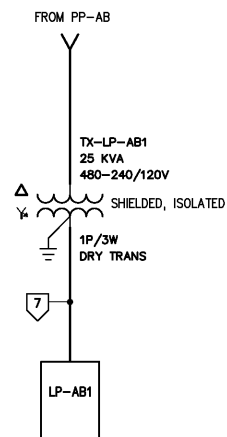
TYPE:
MOUNT: SURFACE

MAIN BKR
125 A 3 P

DESCRIPTION	WIRE	CKT BKR			VOLT AMPERE			VOLT AMPERE			CKT BKR			WIRE	DESCRIPTION
		TRIP	POLE	NO	#A	#B	#C	#A	#B	#C	NO	POLE	TRIP		
TRAINING ROOM LIGHTS	↓	20	1	1	800			1080			2	1	20	↓	TRAINING ROOM RECEPT
TRAINING ROOM LIGHTS	↓	20	1	3		900			720		4	1	20	↓	LUNCHROOM/CORRIDOR RECEPT
LUNCHROOM/OFFICE/MECH LIGHTS	↓	20	1	5			900			1620	6	1	20	↓	LOBBY/ OFFICE RECEPT
CORRIDOR LIGHTS	↓	20	1	7	1000			1440			8	1	20	↓	CONFERENCE ROOM RECEPT
CONFERENCE/STORAGE ROOM LIGHTS	↓	20	1	9		1000			1260		10	1	20	↓	OFFICE RECEPT
CORRIDOR/ OFFICE LIGHTS	↓	20	1	11			1400			1620	12	1	20	↓	MENS/ WOMENS ROOM RECEPT
WOMENS ROOM LIGHTS	↓	20	1	13	800			1800			14	1	20	↓	TOP OFFICE RECEPT
MENS ROOM LIGHTS	↓	20	1	15		800			1440		16	1	20	↓	LIBRARY RECEPT
OFFICE LIGHTS	↓	20	1	17			1400			1620	18	1	20	↓	TOP FLOOR RECEPT
TOILET/ CORRIDOR LIGHTS	↓	20	1	19	700			1200			20	1	20	↓	WATER COOLER RECEPTACLE
TOP N. OFFICE LIGHTS	↓	20	1	21		1200			500		22	1	20	↓	REFRIGERATOR RECEPTACLE
EMERGENCY LIGHTING	↓	20	1	23			1200			540	24	1	20	↓	LUNCHROOM RECP
EXIT LIGHTING	↓	20	1	25	500			500			26	1	20	↓	HOT WATER RECIRC PUMP 1
EMERGENCY LIGHTING	↓	20	1	27		1000			500		28	1	20	↓	STAIRWAY 2 LIGHTS
OUTSIDE LIGHTING (LC-29)	↓	20	1	29			900			720	30	1	20	↓	OUTSIDE RECEPT
ATTIC AREA LIGHTS	↓	20	1	31	750			500			32	1	30	↓	STAIRWAY 1 LIGHTS
PROJECTOR RECEPT/ SCREEN	↓	20	1	33		500			1200		34	1	20	↓	WATER COOLER RECEPTACLE
STORAGE LIGHTING	↓	20	1	35			600			200	36	1	20	↓	EF-6
TOP LIBRARY LIGHTS	↓	20	1	37	1100				0		38	1	20	↓	SPARE
CONFERENCE RM LIGHTS	↓	20	1	39		900			0		40	1	20	↓	SPARE
SPARE	↓	20	1	41			0			0	42	1	20	↓	SPARE
TVSS		TOTAL			5650	6300	6400	6520	5620	6320	TOTAL				
		PHASE TOTAL			TOTAL LOAD										
		12170			11920	12720		36810							

CONDUIT AND WIRE LEGEND (NUMBERS REFERENCE THIS SHEET ONLY)	
NO.	DESCRIPTION
1	2#12, #12GND, 3/4" C
2	3#8, #8GND, 1" C
3	3#4, #8GND, 1" C
4	4#2/0, #6G, 2" C
5	3#10, #10GND, 3/4" C
6	2#4, #8G, 1" C
7	3#1, #6G, 1" C
8	3#12, #12G, 3/4" C
9	4#350kcmil, 4" C

120/240 VOLTS 1Ø, 3 WIRE		LP-AB1						TYPE: MOUNT: SURFACE					
		MAIN BKR 100 A 2 P											
DESCRIPTION	WIRE	CKT BKR		VOLT AMPERE		VOLT AMPERE		CKT BKR		WIRE	DESCRIPTION		
		TRIP	POLE	NO	#A	#B	#A	#B	NO	POLE	TRIP		
LIGHTING CONTACTOR LC-1	↓	20	2	1	400	400	825		2	2	20	↓	LIGHTING CONTACTOR LC-2
				3					825	4			
PLANT SCADA EQUIPMENT	↓	20	1	5	500		500		6	1	20	↓	TELEPHONE BACKBOARD
SPARE	↓	20	1	7				500	8	1	20	↓	CITY NETWORK EQUIPMENT
SPARE	↓	20	1	9					10	1	20	↓	SPARE
SPARE	↓	20	1	11					12	1	20	↓	SPARE
SPARE	↓	20	1	13					14	1	20	↓	SPARE
SPARE	↓	20	1	15					16	1	20	↓	SPARE
SPARE	↓	20	1	17					18	1	20	↓	SPARE
SPARE	↓	20	1	19					20	1	20	↓	SPARE
SPARE	↓	20	1	21					22	1	20	↓	SPARE
SPARE	↓	20	1	23					24	1	20	↓	SPARE
SPARE	↓	20	1	25					26	1	20	↓	SPARE
SPARE	↓	20	1	27					28	1	20	↓	SPARE
SPARE	↓	20	1	29					30	1	20	↓	SPARE
SPARE	↓	20	1	31					32	1	20	↓	SPARE
SPARE	↓	20	1	33					34	1	20	↓	SPARE
SPARE	↓	20	1	35					36	1	20	↓	SPARE
SPARE	↓	20	1	37					38	1	20	↓	SPARE
SPARE	↓	20	1	39					40	1	20	↓	SPARE
SPARE	↓	20	1	41					42	1	20	↓	SPARE
TVSS		TOTAL		900	400		1325	1325	TOTAL				
				PHASE TOTAL		TOTAL LOAD							
				2225		1725		3950					



				DESIGNED	BRL
				DRAWN	DJG
				CHECKED	
3	RECORD DRAWING	JAN 2006	RLT	PROJ. ENGR.	DAN
2	CONSTRUCTION	JAN 2004	RLT		
1	REGULATORY APPROVAL	NOV 2003	RLT		
NO.	ISSUED FOR	DATE	BY	APPROVED	

THIS DOCUMENT ORIGINALLY ISSUED
FOR CONSTRUCTION AND SEALED BY
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RECORD DRAWING

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CITY OF ROANOKE
VIRGINIA

REGIONAL WATER POLLUTION CONTROL PLANT PROCESS TRAIN IMPROVEMENTS

ADMINISTRATION BUILDING

ELECTRICAL

PANEL SCHEDULES AND WIRING DIAGRAMS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE JANUARY 2004	
	H & S JOB NUMBER 307880	
	CONTRACT NUMBER C	DRAWING NUMBER E924