

LIGHTING FIXTURE SCHEDULE (P.E.C.)

FIXT. LTR.	MANUFACTURER CATALOG NUMBER	MANUFACTURER CATALOG NUMBER	MANUFACTURER CATALOG NUMBER	MANUFACTURER CATALOG NUMBER	DESCRIPTION	LAMP TYPE	LENS\LOUVER\FINISH	W	L	D
EG	WILLIAMS 96-4-L40-840-HA-DRY FULLY ENCLOSED AND GASKETED.	OR EQUAL			4" STRIP	40W LED 82CRI 4000K WHITE				4.0
SL	RAB LIGHTING FXLED125TN	OR EQUAL			FLOOD LIGHT	133W LED 82CRI 4000K DARK BRONZE		1.5	1.5	
SLPC	RAB LIGHTING FXLED125TN/PCS	OR EQUAL			FLOOD LIGHT	133W LED 82CRI 4000K DARK BRONZE		1.5	1.5	

① MANUFACTURERS LISTED IN THIS SCHEDULE OR APPROVED BY WRITTEN ADDENDUM WILL BE THE ONLY APPROVED MANUFACTURERS TO BID THE LIGHTING FIXTURES FOR THIS PROJECT. CONTRACTORS AND SUPPLIERS USING PRICING FROM MANUFACTURERS NOT LISTED ON SCHEDULE OR BY ADDENDUM DO SO AT THEIR OWN RISK.

② LIGHT FIXTURE SELECTIONS ARE BASED ON THE MANUFACTURER IN THE LEFT MOST COLUMN AS LISTED IN THE SCHEDULE. FIXTURES APPROVED AS EQUALS IN THIS SCHEDULE OR BY ADDENDUM SHALL BE EQUAL TO THE UNIT SPECIFIED IN THE LEFT MOST COLUMN, IE: SPRING LOADED LATCHES, POST PAINTED FINISH, AND PHOTOMETRICS.

EQUIPMENT CONNECTION SCHEDULE

MECHANICAL EQUIPMENT CONNECTIONS

UNIT DESIG.	UNIT VOLTAGE	LOAD			PANEL DEVICE						DEVICE AT UNIT		FEEDER DESCRIPTION OR SEE THE FEEDER SCHEDULE	REMARKS OR SEE THE INDICATED NOTES BELOW	
		H.P.	FLA	KVA	CIRCUIT NUMBER	BKR. AMPS	SW. AMPS	FUSE AMPS	NEMA START. SIZE	BKR. AMPS	SW. AMPS	FUSE AMPS			NEMA START. SIZE
P	GENERATOR AUXILIARY PUMP														
1	120/1	0.33	7.2	0.864	PG-LV-16	20								FUSTAT	1 2 #12 AWG THINW.; #12 AWG GRD.; 1" C.
2	120/1	0.33	7.2	0.864	PG-LV-18	20								FUSTAT	1 2 #12 AWG THINW.; #12 AWG GRD.; 1" C.

- ALL CONNECTIONS AND ELECTRICAL EQUIPMENT LISTED IN SCHEDULE SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. FIELD VERIFY CONNECTION REQUIREMENTS AND EQUIPMENT PROVIDED BY OTHERS PRIOR TO ROUGH-IN.
- REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR THE REQUIREMENTS ASSOCIATED WITH WIRING AND CONNECTIONS OF INTERLOCKING, THERMOSTAT LOCATIONS, EXHAUST FAN CONTROL SWITCHES, AND OTHER CONTROLS OF MECHANICAL EQUIPMENT.
- SIZE FUSES FOR MOTOR FUSTATS BASED ON 125% OF MANUFACTURER'S NAMEPLATE FULL LOAD AMPERAGE UNLESS OTHERWISE NOTED ON THE DRAWINGS.

PANELBOARD: PG-LV

240/120 VOLTS, 1 PHASE, 3 WIRE
300 AMP MAIN BKR, SURFACE MTD.
22000 AIC LABELED

CIRC NO.	LOAD V. A.	LOAD TYPE	DESCRIPTION	P	AMP SIZE	W/GRD. BUS	AMP SIZE	LOAD DESCRIPTION	LOAD TYPE	LOAD V. A.	CIRC NO.
1	1400	PWR	GEN-1 BATTERY CHARGER	1	20	A	20	1 LTG - GENERATOR STATION	LTG	931	2
3	1400	PWR	GEN-1 BATTERY CHARGER	1	20	B	20	1 LTG - PMSG VAULT	LTG	160	4
5	1400	PWR	GEN-2 BATTERY CHARGER	1	20	A	20	1 SPARE	SPR		6
7	1400	PWR	GEN-2 BATTERY CHARGER	1	20	B	20	1 FEEDER ROOT CONTROLLER	PWR	500	8
9	6000	HEAT	GEN-1 BLOCK HEATER	2	35	A	20	1 GEN-CP	PWR	500	10
11						B	20	1 SPARE	SPR		12
13						A	20	1 CONVENIENCE RECEPTACLE	RTY	200	14
15	6000	HEAT	GEN-1 BLOCK HEATER	2	35	B	20	1 P-1	WTR	864	16
17						A	20	1 P-2	WTR	864	18
19						B	20	1 FUEL TANK SOLENOID VALVE	PWR	400	20
21	6000	HEAT	GEN-2 BLOCK HEATER	2	35	A	20	1 SPARE	SPR		22
23						B	20	1 SPARE	SPR		24
25						A	20	1 SPARE	SPR		26
27	6000	HEAT	GEN-2 BLOCK HEATER	2	35	B	20	1 SPARE	SPR		28
29						A	20	1 SPARE	SPR		30
31						B	20	1 SPARE	SPR		32
33	3000	HEAT	ATS HEATER	2	20	A	20	1 SPARE	SPR		34
35						B	20	1 SPARE	SPR		36
37						A	20	1 SPARE	SPR		38
39						B	20	1 SPARE	SPR		40
41						A	20	1 SPARE	SPR		42

PEN WEIGHT LEGEND

SYMBOL	DESCRIPTION
	ALL DEVICES, LIGHT FIXTURES, ETC., DRAWN IN DARK SOLID LINES ARE NEW TO BE INSTALLED.
	NEW DUPLEX GROUNDED RECEPTACLE
	NEW LIGHT FIXTURE
	ALL DEVICES, LIGHT FIXTURES, ETC., DRAWN IN LIGHT SOLID LINES ARE EXISTING TO REMAIN.
	EXISTING DUPLEX GROUNDED RECEPTACLE TO REMAIN
	EXISTING LIGHT FIXTURE TO REMAIN
	ALL DEVICES, LIGHT FIXTURES, ETC., DRAWN IN DARK DASHED LINES ARE TO BE REMOVED.

SPECIAL OUTLET SCHEDULE

SYMBOL	DESCRIPTION
	GENERATOR EMERGENCY REMOTE SHUT DOWN SWITCH. REFER TO SPECIFICATIONS.
	GROUND LUG LOCATION. PROVIDE A 1" CONDUIT WITH #4/0 CU PIG TAIL AT THIS LOCATION FOR CONNECTION TO GENERATOR FOR GROUNDING. ROUTE #4/0 DOWN TO GROUNDING GRID CONDUCTOR BELOW SLAB AND CAD WELD. PROVIDE CONNECTION FROM GENERATOR TO THIS LOCATION.

- ## GENERAL NOTES
- ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) & THE AMERICANS WITH DISABILITIES ACT (ADA).
 - REFER TO RELATED CIVIL AND STRUCTURAL DRAWINGS FOR RELATED INFORMATION.
 - REFER TO THE SPECIFICATIONS FOR DATA NOT ON THE DRAWINGS.
 - ALL MOUNTING HEIGHTS TO CENTERLINE OF ITEM UNLESS OTHERWISE NOTED. VERIFY ALL OUTLET LOCATIONS ON THE JOB PRIOR TO ROUGH-IN.
 - CONDUIT RUN W/CONDUCTORS AS INDICATED & GROUND WIRE SIZED PER N.E.C. 250.122. CONDUIT SIZE AS REQUIRED.
 - WHEN INCREASED CONDUCTOR SIZES ARE SHOWN ON THE PLANS, THE LARGER CONDUCTOR SIZE SHALL BE USED THROUGHOUT THE LENGTH OF THE CIRCUIT, INCLUDING NEUTRAL AND GROUND.
 - BRANCH CIRCUITS ARE INDICATED AS ONE CIRCUIT HOME RUNS WITH INDIVIDUAL NEUTRALS. A MAXIMUM OF THREE CIRCUITS (MAXIMUM OF THREE PHASE CONDUCTORS) MAY BE GROUPED IN A SINGLE CONDUIT. WHERE MULTIPLE CIRCUITS ARE LOCATED IN THE SAME RACEWAY, JUNCTION BOX OR ENCLOSURE, NEUTRALS SHALL BE MARKED OR LABELED TO INDICATE WHICH CIRCUIT THEY ARE ASSOCIATED WITH. SEE SPECIFICATION SECTION "LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES" FOR ADDITIONAL INFORMATION.
 - RUN CABLES CONTINUOUS FROM JACK TO ASSOCIATED SYSTEM PATCH PANEL IN CONDUIT, CABLE TRAY, OR J-HOOKS PER THE PLANS AND SPECIFICATIONS. NUMBER BESIDE CABLE SYMBOL INDICATES QUANTITY OF CABLES REQUIRED PER HOME RUN.

ONE-LINE SYMBOLS LEGEND:

- CIRCUIT BREAKER
- AUTOMATIC TRANSFER SWITCH
- VARIABLE FREQUENCY DRIVE
- MOTOR
- NON-MOTOR LOAD
- METER
- PANEL
- TRANSFORMER
- FUSE
- SWITCH
- KIRK-KEY INTERLOCK
- DRAWOUT

SYMBOL LIST

SYMBOL	DESCRIPTION	MOUNTING
	LIGHT FIXTURE & FIXTURE LETTER	POLE
	STRIP LIGHT FIXTURE & FIXTURE LETTER	CEILING
	GROUND FAULT DUPLEX RECEPTACLE	18" AFF
	WEATHERPROOF SWITCHES (1-POLE, 2-POLE, 3-WAY, 4-WAY)	46" AFF
	ABOVE FINISHED GRADE	
	UNLESS OTHERWISE NOTED	
	SPECIAL OUTLET (SEE SCHEDULE OR AS NOTED)	FLOOR/WALL
	JUNCTION BOX	
	BRANCH CIRCUIT PANEL & PANEL DESIG.	72" TO TOP
	ELECTRICAL DISTRIBUTION EQUIPMENT	
	FEEDER DESIGNATION	
	CONDUIT HOME RUN, 1 CIRCUIT. 2#10 & 1#10 GRD. GEN. NOTE 5 & 6	CEIL./WALL
	CONDUIT RUN 2#12 & 1#12 GRD.- 1/2" C.	CEIL./WALL
	CONDUIT RUN 2#12 & 1#12 GRD.- 3/4" C.	EARTH/FLOOR
	CONDUIT HOME RUN, 1 CIRCUIT. 2#12 & 1#12 GRD. 1/2" C.	CEIL./WALL
	CONDUIT RUN PARTIAL CIRCUIT. 2#12 & 1#12 GRD. 1/2" C.	CEIL./WALL
	CONDUIT HOME RUN, 2 CIRCUITS PHASE CONDUCTORS (#12 UON) NEUTRAL CONDUCTOR (#12 UON) SWITCH LEGS (#12 UON) GROUND CONDUCTOR (#12 UON)	CEIL./WALL
	VOICE UTP CABLE HOME RUN	GEN NOTE T2
	FIBER OPTIC CABLE HOME RUN (MULTI MODE)	GEN NOTE T2
	GROUND ROD	
	GROUND TEST WELL	

ABBREVIATIONS:

- A A.C.
- A.T.S. AUTOMATIC TRANSFER SWITCH
- AF AMP FRAME
- AT AMP TRIP
- E EMERGENCY POWER
- GEN GENERATOR
- HP HORSE POWER
- KW KILOWATT
- N NORMAL POWER
- PH PHASE
- SPD SURGE PROTECTION DEVICE
- V VOLTAGE
- VFD VARIABLE FREQUENCY DRIVE
- W WIRE
- XFMR TRANSFORMER

	Revision			
No.	By	Date		
CITY OF WICHITA, KANSAS ELECTRICAL LEAD SHEET				
WWTP #2 EMERGENCY POWER PROJECT C.O.W. PROJECT NO. 468-84956				
PEC PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pect.com				
Designed by	RWW	Job No.	34-14229-001-0042	Sht. E.O. of 36
Drawn by	CJV	Date	2/23/15	