

① ④ ⑤ ⑥ LIGHTING FIXTURE SCHEDULE (P.E.C.)											
FIXT. LTR.	MANUFACTURER CATALOG NUMBER	MANUFACTURER CATALOG NUMBER	MANUFACTURER CATALOG NUMBER	MANUFACTURER CATALOG NUMBER	DESCRIPTION SEE NOTES	LAMP TYPE NO.	VOLTS	LENS\LOUVER\FINISH	W	L	D
CG	WILLIAMS 92-4-232-A	COLUMBIA LU4-232-EBB-PAF	LITHONIA DM-232-PAF	METALUX VT2-232DR-DL	4' DAMP LABEL (2)	F32/835 2	UNV	WHITE ENCLOSED AND GASKETED	.6771	4.333	
CGE	WILLIAMS 92-4-232-A	COLUMBIA LU4-232-EBB-PAF	LITHONIA DM-232-PAF	METALUX VT2-232DR-DL	4' DAMP LABEL (2)	F32/835 2	UNV	WHITE ENCLOSED AND GASKETED	.6771	4.333	
PROVIDE WITH 1100 LUMEN EMERGENCY BATTERY BALLAST PER THE SPECIFICATIONS											
CK	WILLIAMS 92-4-232-A-WET/1	COLUMBIA LU4-232-EBB-PAF	LITHONIA DMW-232-WLF-PAF	METALUX VT2-232DR-WL	4' WET LABEL (2)	F32/835 2	UNV	WHITE ENCLOSED AND GASKETED	.6771	4.333	
R3	KIM WD14D3/100MH	INVUE VWS-100-MH-3S	LITHONIA ASW1-100M-SR3-DDBT		WALL DIRECTOR	100W MH		DARK BRONZE TYPE III	1.08	1.22	.74
RDE	KIM WD14D3/232PL		LITHONIA ASW1-2/32TRT-SR3-DDBT		WALL DIRECTOR (2)	32W TIT/35K 4-PIN		GLASS LENS TYPE III	1.08	1.22	.74
PROVIDE WITH -20° COLD WEATHER BALLAST AND -20° COLD WEATHER, 1100 LUMEN EMERGENCY BATTERY BALLAST PER THE SPECIFICATIONS											

- GENERAL CONTRACTOR SHALL PROVIDE FIREPROOFING AROUND RECESSED FIXTURES INSTALLED IN FIRE RATED CEILING PER U.L. REQUIREMENTS. ELECTRICAL CONTRACTOR WILL COORDINATE.
- LIGHT FIXTURES SHALL BE PROVIDED WITH ELECTRONIC BALLASTS. COMPACT FLUORESCENT ELECTRONIC BALLASTS SHALL HAVE END-OF-LIFE PROTECTION CIRCUIT TO PREVENT WELDING OF LAMPS IN SOCKETS OR LAMP BREAKAGE. SEE THE SPECIFICATIONS. ALL FLUORESCENT LAMPS SHALL BE LOW MERCURY AND SHALL MEET ALL E.P.A. GUIDELINES FOR PASSING 'TCLP' TESTS. ALL INDOOR FLUORESCENT BALLASTS SHALL HAVE A DISCONNECTING MEANS MEETING THE REQUIREMENTS OF N.E.C. (2005) ARTICLE 410.73(G), EXCEPT FOR THOSE INSTALLED IN CORD-AND-PLUG CONNECTED FIXTURES.
- NOTE NOT USED.
- 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.
- 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.
- ALL LIGHT FIXTURES SHALL BE SECURED TO THE CEILING FRAMING SYSTEM BY MECHANICAL MEANS (SUCH AS BOLTS, SCREWS, OR RIVETS) OR BY CLIPS IDENTIFIED FOR USE WITH THE TYPE OF CEILING FRAMING MEMBER AND LIGHT FIXTURE.

## 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 ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS FOR RELATED INFORMATION.
- REFER TO THE SPECIFICATIONS FOR DATA NOT ON THE DRAWINGS.
- E.C. SHALL REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR THE REQUIREMENTS ASSOCIATED WITH WIRING AND CONNECTION OF INTERLOCKING AND CONTROLS OF MECHANICAL UNITS AND THERMOSTAT LOCATIONS.
- COORDINATE OUTLET BOX LOCATIONS WITH MASONRY TO MINIMIZE CUTTING OF BRICK OR BLOCK.
- 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.
- "CT" INDICATED ADJACENT TO DEVICE INDICATES DEVICE MOUNTED ABOVE BACKSPASH OF COUNTER TOP. VERIFY EXACT HEIGHT WITH ARCHITECTURAL PLANS AND ELEVATIONS.
- EACH DATA, TELEPHONE, VIDEO, OR OTHER SYSTEMS OUTLET REQUIRES 1-1/4". WITH PULL ROPE STUBBED 6" ABOVE NEAREST ACCESSIBLE CEILING UNLESS OTHERWISE NOTED ON PLANS. CONDUITS STUBBED UP ABOVE CEILINGS SHALL BE TURNED OUT 90°. PROVIDE INSULATED BUSHINGS ON ALL CONDUITS. LABEL CONDUIT TO IDENTIFY ITS INTENDED USE (IE: TELEPHONE, DATA, ETC.).
- 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.
- PROVIDE QUANTITY AND TYPE OF JACKS PER THE SPECIFICATIONS AND DETAILS. PROVIDE JACK AND CABLE LABELING PER THE SPECIFICATIONS.

## SYMBOL LIST

SYMBOL	DESCRIPTION	MOUNTING
(A)	LIGHT FIXTURE & FIXTURE LETTER	CEILING
(A)	LIGHT FIXTURE & FIXTURE LETTER	WALL
(A)	FIXTURE W/SHADED LAMP(S) ON EMERG. POWER	CEILING
\$ \$2 \$3 \$4	SWITCHES (1-POLE, 2-POLE, 3-WAY, 4-WAY)	46" AFF
\$K \$P	SWITCHES (KEYED, PILOT)	46" AFF
WP	WEATHERPROOF	
CT	SEE GENERAL NOTE 9	
AFF	ABOVE FINISHED FLOOR	
UON	UNLESS OTHERWISE NOTED	
⊕	DUPLEX GROUNDED RECEPTACLE	17" AFF
⊕	DUPLEX GROUND RECEPTACLE DEDICATED FOR COMPUTER USE	17" AFF
⊕	GROUND FAULT DUPLEX RECEPTACLE	17" AFF
□	SPECIAL DEVICE (AS NOTED)	
⊞	JUNCTION BOX	
⊞	FUSTAT BUSS #SSY	
—A'	BRANCH CIRCUIT PANEL & PANEL DESIG.	72" TO TOP
⊞	ELECTRICAL DISTRIBUTION EQUIPMENT	
1	FEEDER DESIGNATION	
—	CONDUIT SEAL-OFF	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 RUN 2 CIRCUITS, 3#12 & 1#12 GRD.-3/4"C.	EARTH/FLOOR
—	CONDUIT RUN PARTIAL CIRCUIT	
—	SEE GENERAL NOTE 7 & 8	
—	CONDUIT RUN TWO (2) CIRCUITS PHASE CONDUCTORS (#12 UON) NEUTRAL CONDUCTOR (#12 UON) SWITCH LEGS (#12 UON) GROUND CONDUCTOR (#12 UON)	CEIL./WALL

## PACKAGE SOLUTIONS

- THE ELECTRICAL SYSTEM DESIGN INDICATED IN THE CONSTRUCTION DOCUMENTS REPRESENTS THE MINIMUM ACCEPTABLE SYSTEM REQUIREMENTS AND CONTROL AS REQUIRED BY ALL DEVICES AND EQUIPMENT. ANY COMPLETE-PACKAGE SOLUTIONS MUST INCLUDE, AS A MINIMUM, ALL THE FUNCTIONALITY, OPERATION, AND COMPONENTS OF THE SYSTEM INCLUDED HEREIN.
- ANY COMPLETE-PACKAGE SOLUTIONS SUBMITTED PRIOR TO THE OPENING OF BIDS. SUBMITTED DOCUMENTATION MUST MEET THE REQUIREMENTS SET FORTH IN SPEC SECTION 16050 - BASIC METHODS AND REQUIREMENTS.

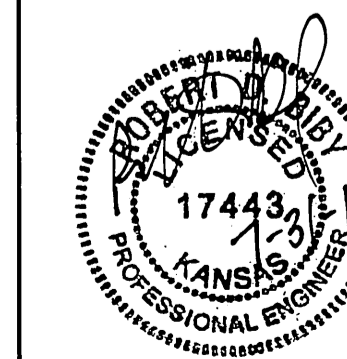
## SYMBOL LIST

SYMBOL	DESCRIPTION	MOUNTING
—	DISCRETE CONTROL CABLE (# OF PAIRS)	CEIL./WALL
—	ANALOG CONTROL CABLE (# OF SHIELDED PAIRS)	CEIL./WALL
—	FLASHING BEACON LIGHT - 120V.	96" AFF
—	LIMIT SWITCH	
—	MAN DOWN CONTACT	
—	MOTOR WINDING THERMAL OVERLOAD CONTACT	
—	BUTTERFLY VALVE	
—	VOICE UTP CABLE HOME RUN	GEN NOTE 11
—	DATA UTP CABLE HOME RUN	GEN NOTE 11
—	COMB. VOICE/DATA OUTLET & JACKS (GEN NOTE 10 & 12)	17" AFF
W	WALL	46" AFF

## CONTROL CABLES CONDUIT SCHEDULE

# OF CABLES	ESTIMATED CONDUIT SIZE
1	1/2"
2	3/4"
3	1"
5	1 1/4"
7	1 1/2"
13	2"
18	2 1/2"
29	3"
38	3 1/2"

NOTE:  
ABOVE CONDUIT SIZES DEPEND ON ACTUAL CABLES INSTALLED. VERIFY CABLE SIZES & ADJUST CONDUIT AS REQUIRED. RUN ALL CONTROL CABLES IN SEPARATE CONDUIT FROM POWER CIRCUITS. ALSO RUN SHIELDED & LAN LAN CABLES IN SEPARATE CONDUIT FROM OTHER CONTROLS. CONTRACTOR CAN SIZE CONDUIT FOR ACTUAL CABLE SIZE, PER N.E.C. FILL TABLE WITH 25% SPARE CAPACITY. SUBMIT CALCULATIONS.



No.	Revision	By	Date
SEDGWICK COUNTY RURAL WATER DISTRICT #1 WATER DISTRIBUTION SYSTEM IMPROVEMENTS <b>ELECTRICAL LEAD SHEET</b> GARY JANZEN, P.E. - CITY ENGINEER CITY OF WICHITA PROJECT NO. 448-90565			
		PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com	
Designed by	RDB	Job No.	34-11123
Drawn by	ADM	Date	JULY 2013
			Sht. E0.1 of 9