

ELECTRICAL SYMBOL LIST	
	2' x 4' FLUORESCENT LIGHTING FIXTURE. (LETTER DENOTES TYPE, SEE SPECIFICATIONS)
	1' x 4' FLUORESCENT LIGHTING FIXTURE
	1' x 2' FLUORESCENT LIGHTING FIXTURE PROVIDED WITH EMERGENCY BATTERY.
	STRIP OR INDUSTRIAL TYPE FLUORESCENT LIGHTING FIXTURE.
	STRIP OR INDUSTRIAL TYPE FLUORESCENT LIGHTING FIXTURE PROVIDED WITH EMERGENCY BATTERY.
	2' x 2' FLUORESCENT LIGHTING FIXTURE. (LETTER DENOTES TYPE, SEE SPECIFICATIONS)
	2' x 2' FLUORESCENT LIGHTING FIXTURE PROVIDED WITH EMERGENCY BATTERY.
	CEILING MOUNTED LIGHTING FIXTURE (TYPICAL FOR INCANDESCENT, CIRCULAR FLUORESCENT, MERCURY VAPOR, METAL HALIDE OR HIGH PRESSURE SODIUM)
	CEILING MOUNTED LIGHTING FIXTURE PROVIDED WITH EMERGENCY BATTERY.
	WALL MOUNTED TYPE LIGHTING FIXTURE.
	WALL MOUNTED TYPE LIGHTING FIXTURE PROVIDED WITH EMERGENCY BATTERY.
	WALL MOUNTED TYPE DOCK LIGHT.
	BATTERY OPERATED EMERGENCY LIGHTING UNIT WITH INTEGRAL AND/OR REMOTE HEAD(S) AS INDICATED ON PLAN DRAWINGS
	DIRECTIONAL SIGN (EXIT, STAIRS, ETC.) WITH ARROW(S) WHERE REQUIRED.
	SWITCH: SINGLE POLE, 3-WAY, 4-WAY
	OCCUPANCY SENSOR SWITCH
	MOTOR STARTER SWITCH WITH OVERLOADS.
	DUPLEX CONVENIENCE RECEPTACLE, 125V. GROUNDING TYPE.
	DUPLEX RECEPTACLE, 125V. WITH SURGE SUPPRESSION.
	DUPLEX RECEPTACLE, 120V. WEATHER PROOF
	RECEPTACLE, 250V., 2P, 3W SINGLE PHASE
	RECEPTACLE, 250V., 3P, 4W THREE PHASE
	QUAD RECEPTACLE, 125V.
	QUAD RECEPTACLE, 125V. WITH SURGE SUPPRESSION.
	SURFACE WIREWAY OR PLUGMOLD
	PANELBOARD
	DISCONNECT SWITCH
	MAGNETIC MOTOR STARTER
	COMBINATION STARTER/DISCONNECT SWITCH
	MOTOR OR MOTOR OUTLET
	HOMERUN
	CONCEALED CONDUIT BELOW FLOOR SLAB.
	STATIC CAMERA
	PTZ CAMERA

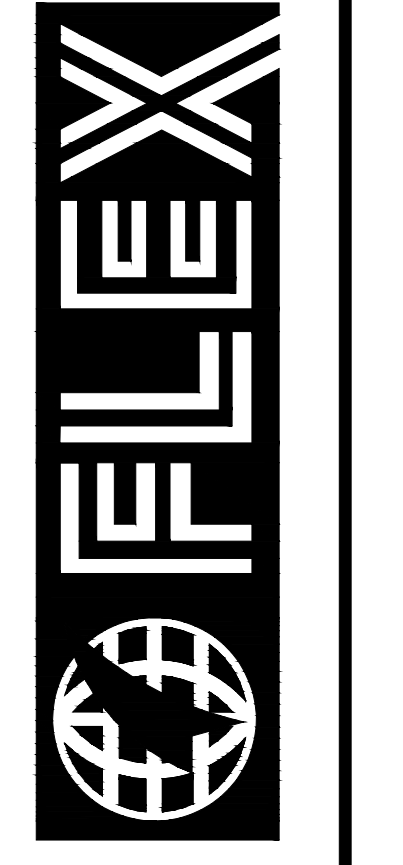
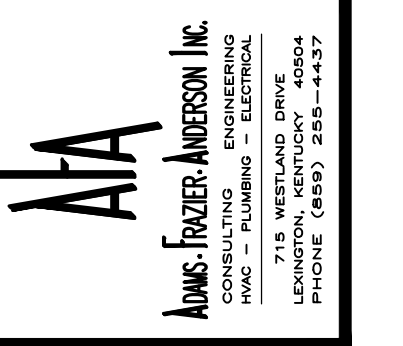
NOTES:  
ALL SYMBOLS SHOWN ABOVE ARE NOT NECESSARILY USED ON THIS PROJECT.

LIGHTING FIXTURE SCHEDULE			
TYPE	DESCRIPTION	TYPE	DESCRIPTION
A	PENDANT MOUNTED 400 WATT METAL HALIDE HIGH BAY WITH 17" DIAMETER ENCLOSED ALZAK REFLECTOR. HINGED STAINLESS STEEL DOOR FRAME WITH HIGH TEMPERATURE GLASS DOOR FRAME. CAST ALUMINUM BALLAST HOUSING. ADJUSTABLE DISTRIBUTION LAMP SOCKET, HPF CWA MOVILT PULSE START BALLAST AND 400 WATT, 40000 LUMEN METAL HALIDE BASE UP LAMP. LITHONIA TE-400M TB LTRP/SL LC3P OR EQUAL.	L	400 WATT METAL HALIDE FLOOD LIGHT HYREL 7200 TB 1M PER LPI 400M VFL B2 FSAB OR EQUAL.
AO	SAME AS LIGHT FIXTURE TYPE "A" EXCEPT WITH TIME DELAY QUARTZ RESTRIKE OPTION. LITHONIA TE-400M TB LTRP/SL LC3P OR EQUAL.	M	SURFACE MOUNT TWO (2) LAMP EXPLOSION PROOF FLUORESCENT HOLOPHANE HXP SERIES OR EQUAL.
B	CHAIN HUNG 1X4 INDUSTRIAL FLUORESCENT WITH WIRE GUARD, SOLID REFLECTOR, PROGRAM START MVOLT ELECTRONIC BALLAST AND TWO (2) 54 T5HO, 41K LAMPS. LITHONIA EJS/EJD 2-54T5HO MVOLT GEB10PS HRC1 NCR4 OR EQUAL.	N	RECESSED DOWNLIGHT WITH 6" CLEAR ALZAK TRIM ELECTRONIC BALLAST AND 26 TRT 41K VERTICALLY MOUNTED LAMP. LITHONIA LFN 26TRT 6AR OR EQUAL.
BE	SAME AS LIGHT FIXTURE TYPE "B" EXCEPT TO HAVE EMERGENCY INVERTER PACK. LITHONIA EJS/EJD 2-54T5HO MVOLT GEB10PS HRC1 NCR4 PS 1400.	NE	SAME AS FIXTURE TYPE "N" EXCEPT TO HAVE EMERGENCY INVERTER PACK. LITHONIA LFN 26TRT 6AR EL OR EQUAL.
C	4", WET LOCATION FIXTURE, CLEAR PRISMATIC LENS, ELECTRONIC BALLAST DROP DIFFUSER 2.25" DEEP. LITHONIA WJ25H4V 2-54T5HO MVOLT OR EQUAL.	O	SURFACE MOUNTED CLASS 2 DEV. 1 28 WATT COMPACT FLUORESCENT GLOBE AND GUARD. CANLET 801 DWP 28 CF OR EQUAL.
CE	SAME AS LIGHT FIXTURE TYPE "B" EXCEPT TO HAVE EMERGENCY INVERTER PACK. LITHONIA WJ25H4V 2-54T5HO MVOLT PS 1400 OR EQUAL.	P	RECESSED 2X2 LAY-IN TROFFER WITH PROGRAM START ELECTRONIC BALLAST, HINGED AND LATCHED STEEL DOOR A12-125 HENS AND TWO (2) 17 WATT 15 41K LAMPS. TUBE FLUORESCENT LAMPS. LITHONIA 2SPG 217 TS GEB10PS A-12.125 OR EQUAL.
D	SURFACE WALL MOUNTED VANITY FLUORESCENT MOUNTED ABOVE MIRROR UNIT TO BE 3-1/2" DEEP, 6-7/8" WIDE AND 49" LONG WITH 20GA CRS WHITE STEEL BODY, 4-1/2" PRISMATIC ACRYLIC LENS, PROGRAM START ELECTRONIC BALLAST AND TWO (2) F-28 TS 41K LAMPS. LITHONIA WS 2 28TS A-12 .125 GEB10PS OR EQUAL.	Q	SURFACE WALL MOUNT OVER MIRROR DIRECT/NORECT. 48" LONG, 3" HIGH, 6-1/2" DEEP WITH EXTRUDED ALUMINUM SPINE AND BATTLES, PROGRAM START ELECTRONIC BALLAST AND ON 28 WATT 15 41K LAMP. FERRISS CRWWRW 128TS R-4 GEB10PS OR EQUAL.
DE	SAME AS TYPE "D" WITH EMERGENCY INVERTER PAC. LITHONIA WS 2 28TS A-12 .125 GEB10 PS-1400 OR EQUAL.	R	SAME AS LIGHT FIXTURE TYPE "Q" EXCEPT TO BE A 2X4 WITH TWO (2) 28 WATT 15 41K LAMPS. LITHONIA 2SPG 228TS GEB10PS A-12.125 OR EQUAL.
E	SURFACE MOUNTED EMERGENCY INVERTER POWERED THERMAL PLASTIC RED STENCIL FACE LED EXIT SIGN WITH UNIVERSAL MOUNTING AND ARROWS. LITHONIA UNIVERSAL OR EQUAL.	T	2X4 RECESSED LAY-IN TROFFER WITH STEPPER REFLECTORS, PERFORATED ALUMINUM LAMP BASKET WITH STRAIGHT BLADE LOUVERS, 5 PERCENT DIMMING BALLAST CONTROLLED BY THREE WIRE DIMMERS, AND TWO (2) 28 WATT 15 41K FLUORESCENT LAMPS. LITHONIA 2AV228TS SBL DMH ASR OR EQUAL.
E1	SURFACE MOUNTED CAST ALUMINUM EGRESS FLUORESCENT WALL PACK WITH GLASS LENS, CAST GUARD, PROGRAM START ELECTRONIC MVOLT BALLAST AND INTEGRAL EMERGENCY INVERTER PROVIDE UNSWITCHED CONDUCTOR AND TWO (2) 42TRT 41K COMPACT FLUORESCENT LAMPS. NULTE EIL 44241 120	U	RECESSED LOW VOLTAGE DOWNLIGHT WITH 3-5/8" BLACK MILLIGROOVE ADJUSTABLE BAFFLE CLASS "1" DAMBLER TRANSFORMER TO BE CONTROLLED BY LOW VOLTAGE WALL BOX DIMMER TO MATCH TYPE "T" FLUORESCENT LAMP UNIT TO BE COMPLETE WITH 50 WATT MR-16 WFL. GOTHAM LVA 3V81 OR EQUAL.
E2	SURFACE WALL MOUNTED INDUSTRIAL EMERGENCY EGRESS UNIT WITH HIGH IMPACT, 140 INJECTION MOLDED THERMOPLASTIC HOUSING, SOLID STATE CHARGER, 12 VOLT NICKEL CADMIUM BATTERIES, TWO (2) 50 WATT MR16 LAMPS. UNIT TO BE CAPABLE OF PRODUCING 100 WATTS FOR 1-1/2 HOURS. ISOLITE ELS SERIES INV100 277 513 OR EQUAL.	V	RECESSED FLUORESCENT DOWNLIGHT WITH 4-5/8" BLACK MILLIGROOVE BAFFLE, ALZAK REFLECTOR, ELECTRONIC BALLAST AND ONE 15 WATT DTT COMPACT FLUORESCENT LAMP. LITHONIA L7XF 130DT OR EQUAL.
F	SURFACE WALL MOUNTED 300 WATT DOCK LIGHT WITH ARMS AND WIRE GUARD. LITHONIA DS40 ADJ 300I LPI MLHW6B OR EQUAL. MOUNT AT 6'-8" AFF.	VE	SAME AS LIGHT FIXTURE TYPE "V" EXCEPT TO HAVE EMERGENCY INVERTER. LITHONIA L7XF 130DT EL OR EQUAL.
G	400 WATT CAST ALUMINUM YOKE MOUNTED HIGH PRESSURE SODIUM FLOOD LIGHT 12" HIGH, 18" WIDE, 11" DEEP HOUSING, ALZAK 7X6 REFLECTOR, CAST HINGED AND LATCHED DOOR HPFCSA PULSE START, PHOTO CELL BALLAST AND 400 WATT HPS LAMP. LITHONIA TFR 400S TA TB SCWA EY PE1 OR EQUAL.	W	SURFACE WALL MOUNTED VANITY FLUORESCENT MOUNTED ABOVE MIRROR UNIT TO BE 25" WIDE 4" HIGH, 4" DEEP WITH OPAL WHITE DIFFUSER, ELECTRONIC BALLAST AND (2) TWO 17 WATT TB FLUORESCENT LAMPS. LITHONIA 11893 WH MVOLT GEB OR EQUAL.
G1	SAME AS LIGHT FIXTURE TYPE "G" EXCEPT TO HAVE 100 WATT HIGH PRESSURE SODIUM LAMP. LITHONIA TFR 100S TA TB SCWA EY PE1 OR EQUAL.	Y	BUILDING MOUNTED NEMA 4X CORROSION RESISTANT FAA APPROVED L-810 860 SERIES AIRCRAFT OBSTRUCTION LIGHT AND CONTROLLED ELECTRICAL CONTRACTOR TO PROVIDE MOUNTING FEEDTHRU. DALIGHT VIGILANT 860-1R01-001 OR EQUAL.
H	RECESSED 2 X 2, NINE CELL PARABOLIC GRID TROFFER WITH HINGED AND LATCHED DOOR, 3" DEEP, NINE CELL PARABOLIC LAMPER, PROGRAMMABLE START ELECTRONIC BALLAST AND THREE (3) 40 WATT 15 41K LAMPS. LITHONIA 2PM3NG13 3CF 4041K GEB10 PS FLUORESCENT LAMPS OR EQUAL.	Z	PENDANT MOUNTED 400 WATT METAL HALIDE HIGH BAY WITH 17" ALZAK REFLECTOR, CAST ALUMINUM BALLAST HOUSING, ADJUSTABLE DISTRIBUTION LAMP SOCKET PULSE START HPF CWA MOVILT BALLAST AND 40,000 LUMEN PULSE START, BASE UP METAL HALIDE LAMP. LITHONIA THA15 400M LTRP/SL LC3P OR EQUAL.
HE	SAME TYPE "H" WITH EMERGENCY INVERTER PACK. LITHONIA 2PM3NG13 3CF 4041K GEB10 PS-1400 OR EQUAL.	Z0	SAME AS TYPE Z WITH QUARTZ RESTRIKE OPTION. LITHONIA THA15 400M LTRP/SL LC3P OR EQUAL.
J	2X4 RECESSED GRID MOUNTED TROFFER WITH FLAT STEEL HINGED AND LATCHED DOOR, 125 ACRYLIC LENS, PROGRAM START ELECTRONIC M-VOLT BALLAST AND (2) TWO F-28 TS 41K FLUORESCENT LAMPS. LITHONIA SP5 28 TS GEB5SPS LP841 OR EQUAL.	OLF-1	28" LONG, 18" WIDE, 8" HIGH DIE-CAST ALUMINUM RECTANGULAR CUTOFF LUMINAIRE WITH SEGMENTED ALZAK REFLECTOR SYSTEM (SEE SITE PLAN FOR TYPE OF DISTRIBUTION), HPF, CWA PULSE START BALLAST, ON TOOLLESS BALLAST TRAY, DIE CAST ALUMINUM HINGED AND LATCHED GASKETED DOOR, 350 WATT HIGH PRESSURE SODIUM HORIZONTAL MOUNT LAMP ON A 20"-0" LONG SQUARE STEEL POLE FACTORY POWER COATED WITH POLY 5" TESTER DARK BRONZE PAINT POLE AND FIXTURE TO BE MOUNTED ON A 24" DIAMETER POWERED STEEL REINFORCED CONCRETE BASE POLE TO BE COMPLETE WITH ANCHOR BOLTS, BASE PLATE COVER, HANDHOLE COVER AND TOP CAP. LITHONIA KAD 250 HPS SR TB SPA / 20SSP/ AB / HHC D82 / DM19 AS OR EQUAL.
JE	SAME AS TYPE "J" WITH EMERGENCY INVERTER PAC. LITHONIA SP5 2 28 TS GEB10 PS 1400 OR EQUAL.	OLF-2	SAME AS OLF-1 EXCEPT TO HAVE TWO LUMINAIRE AT 180 DEGREE (SEE SITE FOR DISTRIBUTION). LITHONIA KAD (2) 250 HPS SR TB SPA / 20SSP/ AB / HHC / DB2 / DM28 AS OR EQUAL.
K	SURFACE CEILING MOUNT 18" SQUARE OPAL GLASS FLUORESCENT LUMINAIRE WITH WHITE STEEL PAN, SOLID STATE ELECTRONIC BALLAST AND TWO (2) 18 WATT TWIN TUBE FLUORESCENT LAMPS. LITHONIA FMLS 15 2 18DTT OR EQUAL.		

WIRING DEVICE MOUNTING SCHEDULE	
DEVICE MOUNTING HEIGHTS ABOVE FINISHED FLOOR (A.F.F.) TO CENTER OF DEVICES UNLESS INDICATED OTHERWISE.	
DEVICE	MTG HEIGHT
GENERAL RECEPTACLES	18" A.F.F.
RECEPTACLES IN STORAGE ROOM AND MECHANICAL ROOMS	44" A.F.F.
RECEPTACLES ABOVE COUNTERTOPS	4" ABOVE COUNTERTOP BACKSPASH MOUNT LONG AXIS HORIZONTAL
TOGGLE SWITCHES	48" A.F.F.
PAY TELEPHONE OUTLETS	60" A.F.F.
FIRE ALARM PULLSTATIONS	44" A.F.F.
FIRE ALARM SIGNALING DEVICES	80" A.F.F.
- CEILING HEIGHT BELOW 10 FT.	80" A.F.F.
OFFICE VOICE/DATA OUTLETS	18" A.F.F.*

NOTE: RECEPTACLES MOUNTED BELOW 60" A.F.F. SHALL HAVE GROUNDING PLUG AT TOP OF DEVICE. FOR 60" AND ABOVE, RECEPTACLE SHALL BE MOUNTED WITH GROUND PLUG AT BOTTOM OF DEVICE.

\* ANY VOICE/DATA OUTLET IN THE OFFICES AND CLASSROOMS SHALL BE MOUNTED BOTTOM #40" A.F.F. 16 STUDENT STATIONS, TEACHER STATIONS IN THE CLASSROOMS THE VOICE/DATA OUTLETS SHALL BE MOUNTED 40" A.F.F. ANY VOICE/DATA MOUNTED AT 40" A.F.F. SHALL HAVE THE ASSOCIATED RECEPTACLE MOUNTED @ THE SAME HEIGHT.



**FLEXFILMS, U.S.A., LLC**  
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PROJECT L-12 BOPET U.S.A.

DATE	REVISION	BY
NOV. 11, 2011	VALUE ENGINEERING RE-DESIGN DOCUMENT	

DESIGN NO. 8529-02  
DESIGNED BY LIE  
DRAWN BY LIE  
CHECKED BY SHT  
REVIEWED BY SHT  
DATE: JULY 7, 2011  
SCALE: AS NOTED

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DRAWING NO.  
**UFL-L12  
E-010**

