






































P:\PROJECTS\17-034 DURHAM TECH FACILITIES SWS (BUD\3.0 CAD\3.20 ELECTRICAL\1.0.DWG) Plotted By: BRUCE NEWMAN - 9/12/2018 2:19 PM

LIGHT FIXTURE SCHEDULE								
TYPE		DESCRIPTION	MANUFACTURER	CATALOG NO.	LAMPING	VA	VOLT	REMARKS
A		LED HIGH BAY 4000K	NORIBACH LITHONIA PHILLIPS DAYBRITE	HEX-105-B-CW-MT-OS	LED 4000K	173.5	120	24,000 LUMEN OUTPUT WITH INTEGRAL OCCUPANCY SENSOR
B		4' LED LENSED STRIP LIGHT WITH DIE FORMED STEEL, FROSTED EXTRUDED LENS, POLYESTER POWDER COAT FINISH AFTER FABRICATION	LSI INDUSTRIES PHILLIPS DAYBRITE LITHONIA	SDL 4 LW-4FT	LED 4000K	29	120	
C		2' X 2' RECESSED INDIRECT LED TROFFER 82 CRI AND 4000K TEMP. 3000 LUMEN WITH LED'S RATED AT 60,000 HRS.	LSI DAYBRITE LITHONIA	LPEC22-LED-SS-NW-UE	LED 4000K	29	120	0-10 VOLT DIMMING
D		LED SECURITY WALL PACK WITH EMERGENCY EGRESS BATTERY BACKUP	SIGNTEX PHILLIPS DAYBRITE LSI	MOE BB 16L3 B DG PH LT	LED 4000K	10	120	EMERGENCY ONLY
G		2X4 LED LAY-IN FLAT PANEL WITH ALUMINUM HOUSEING, ACRYLIC LENS AND 0-10 VOLT DIMMING STANDARD	EELP VERSALED PHILLIPS DAYBRITE LSI LITHONIA	VLFP6-B-24-50L-QT-40K-2X4	LED 4000K	50	120	5,000 LUMENS LED AND 0-10 VOLT DIMMING
H		CANOPY/CEILING LED LIGHT	LITHONIA LSI INDUSTRIES PHILLIPS DAYBRITE	VRC LED 1 50K MVOLT DARK BRONZE	LED 4000K	41	120	3,389 LUMEN OUTPUT
K		LED DIE CAST MINI WALL SCONCE WITH ZERO UP LIGHT	LITHONIA LSI INDUSTRIES PHILLIPS DAYBRITE	WSTM LED 2A 40K 120 PE DOBXD	LED 4000K	17	120	1,308 LUMEN OUTPUT
L		6' LED DOWN LIGHT WITH MEDIUM WIDE DISTRIBUTION	LITHONIA LSI INDUSTRIES PHILLIPS DAYBRITE	EVO 40/30 6AR MWD LD 120	LED 4000K	36.6	120	3,000 LUMEN OUTPUT
M		LED HIGH BAY STEEL CONSTRUCTION, WHITE POLYESTER POWDER COAT, INTEGRAL AISLE TYPE MOTION SENSOR, SUSPENDED WITH AIRCRAFT CABLE, 4000K, STANDARD 0-10V DIMMABLE	LITHONIA LSI INDUSTRIES PHILLIPS DAYBRITE	IBG 12000LM SEF AFL ND MVOLT OZ10 40K 80CRI DWH	LED 4000K	100	120	12,000 LUMENS - MOUNTED 22 FEET ABOVE FINISHED FLOOR
UC								

NOTES:

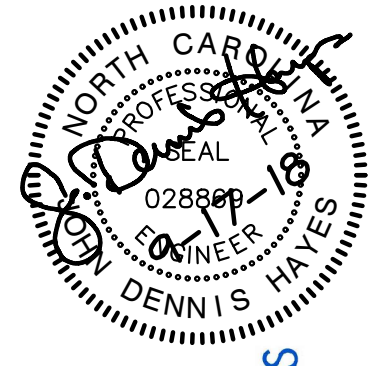
- ALL FIXTURES WILL BE PROVIDED WITH A 10 YEAR WARRANTY.
- ALL FIXTURES WILL BE EITHER DLC OR ENERGY STAR LISTED.
- WHERE CORDS ARE USED TO POWER HIGH BAY FIXTURES INSTEAD OF CONDUIT, CONTRACTOR SHALL PROVIDE PLUG AND RECEPTACLE IN STALLED IN ACCORDANCE WITH NEC 410.62.

ELECTRICAL SYMBOLS	
	GROUND FAULT TEST/RESET SWITCH FOR REFRIG.
	20AMP DUPLEX RECEPTACLE
	20AMP DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER
	20AMP DUPLEX RECEPTACLE FOR WATER COOLER
	20AMP DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER AND EXTRA HEAVY DUTY, CAST ALUMINUM, WHILE IN-USE COVER, MEETING 2014 NEC 406.9 (B) (1).
	QUAD RECEPTACLE
	DEDICATED EQUIPMENT RECEPTACLE
	1" CONDUIT TO ABOVE CEILING FROM 2--GANG BACK BOX FOR DATA
	1" CONDUIT TO ABOVE CEILING FROM 2--GANG BACK BOX FOR FLAT SCREEN TV
	CEILING MOUNTED WIFI
	WALL MOUNTED WIFI
	8" x 2" WIRE BASKET CABLE TRAY
	DISCONNECT SWITCH
	CARD READER
	17"W x 30"L x 24"H QUARTZITE HANDHOLE. SEE DETAIL 4/EST.0
	BLANK GFI TEST/RESET SWITCH
	20 AMP TOGGLE SWITCH, 3--WAY, 4--WAY
	TOGGLE SWITCH WITH INTEGRAL OCCUPANCY SENSOR
	0--10V DIMMER SWITCH, 3--WAY
	0--10V DIMMER SWITCH WITH INTEGRAL OCCUPANCY SENSOR
	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
	PHOTOCELL
	MOTOR RATED TOGGLE SWITCH
	90 MINUTE EMERGENCY LED WALL MOUNTED LIGHT MEETING 2014 NEC 700.12 (A).
	2 x 4 LAY-IN TROFFER
	2 x 2 INDIRECT LED LAY-IN TROFFER
	COPPER GROUND BUS
	LED HIGH BAY
	LED AISLE FIXTURE
	90 MINUTE EXIT SIGN MEETING 2014 NEC 700.12 (A).
	WEATHER PROOF
	CEILING MOUNTED
	ABOVE COUNTER

GENERAL ELECTRICAL NOTES:

- THE CONTRACTOR SHALL VERIFY EQUIPMENT NAMEPLATE INFORMATION BEFORE INSTALLING CONDUIT, WIRING, CIRCUIT BREAKERS, DISCONNECT SWITCHES OR FUSES.
- IN THE EVENT THE CONTRACTOR CHOOSES TO USE PRODUCTS OTHER THAN THE BASIS OF DESIGN, HE ASSUMES FULL RESPONSIBILITY FOR COORDINATION AND INTEGRATION OF SUCH ITEMS. THE FUNCTIONAL DESIGN INTEGRITY OF ALL SYSTEMS AND COMPONENTS SHALL BE MAINTAINED. VOLTAGES, LOADS, WIRE SIZES AND QUANTITIES, DISCONNECT SWITCHES AND FUSE SIZES, PHYSICAL SIZE, LOCATIONS, CLEARANCES, ETC. SHALL BE FULLY COORDINATED BY THE ELECTRICAL CONTRACTOR AND SHALL BE HIS RESPONSIBILITY. ANY ADDITIONAL COST RESULTING FROM SAID SUBSTITUTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE ELECTRICAL DRAWINGS REGARDING BUILDING CONSTRUCTION, DIMENSION AND ARRANGEMENT. LINES THAT REQUIRE SLOPE, SUCH AS PLUMBING WASTE LINES SHALL TAKE PRECEDENCE OVER ELECTRICAL LINES. CONTRACTOR SHALL COORDINATE CLOSELY WITH ALL TRADES TO AVOID CONFLICTS AND SHALL PROVIDE ALL OFFSETS AND EQUIPMENT AS REQUIRED TO FIT THE ELECTRICAL WORK INTO THE AVAILABLE SPACE.
- ALL DISCONNECTS SHALL BE HEAVY DUTY TYPE, HAVE A GROUND BAR, A NEUTRAL BAR AND TOOL DEFEATABLE INTERLOCKS.
- COORDINATE ANY AND ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION SO AS TO AVOID CONFLICT DURING CONSTRUCTION.
- ALL PANELS SHALL HAVE TYPED, COMPLETED DIRECTORIES INDICATING EQUIPMENT SERVED AND ROOM NUMBER (AS INDICATED ON FINAL BUILDING ROOM SIGNAGE) OF EQUIPMENT LOCATION, OR SPARE, OR SPACE.
- COORDINATE ALL DEVICES AND OUTLETS ABOVE, BELOW AND ABOUT CASEWORK CLOSELY WITH CASEWORK CONTRACTOR IN ORDER TO LOCATE AT THE PROPER LOCATION AND HEIGHT.
- THE CONTRACTOR SHOULD READ AND UNDERSTAND THE ENTIRE SET OF CONSTRUCTION DOCUMENTS WHICH INCLUDES BUT IS NOT LIMITED TO THE SPECIFICATIONS, ARCHITECTURAL, CIVIL, STRUCTURAL AND ALL ENGINEERING DRAWINGS, SO THAT HE MAY UNDERSTAND THE FULL SCOPE OF WORK AND CONVEY THE PROPER REQUIRED MATERIALS AND METHODS OF INSTALLATION TO THE ESTIMATORS, SUPPLIERS AND INSTALLERS.
- CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS IN ORDER TO OBTAIN A FULL UNDERSTANDING OF WORK TO BE DONE.
- ALL ELECTRICAL EQUIPMENT AND WIRING SHALL BE 75 DEG. RATED.
- FINAL LOCATIONS OF ALL POWER DEVICES SHALL BE COORDINATED WITH FINAL EQUIPMENT PLAN PRIOR TO ROUGH-IN OF ANY LOCATIONS.
- ELECTRICAL CONTRACTOR SHALL FIRE SEAL ALL PENETRATIONS THRU FIRE RATED WALLS. REFER TO PME SHEET FOR U.L. PENETRATION DETAILS.
- ALL LOW VOLTAGE WIRING SHALL BE PLENUM RATED.
- ALL EXTERIOR LIGHTS SHALL BE CONTROLLED BY A ROOF MOUNTED PHOTOCELL. LOCATION TO BE COORDINATED WITH THE ARCHITECT.
- EXIT AND EMERGENCY LIGHTING UNITS SHALL BE CIRCUITED TO THE LINE SIDE OF THE LOCAL SWITCH TO ENSURE OPERATION IN A LOSS OF NORMAL POWER SITUATION.
- ALL EXTERIOR CONDUIT ROUTINGS SHOWN ARE DIAGRAMMATIC AND FOR CONTRACTOR INFORMATION. ANY PATHWAYS INSTALLED SHALL MEET ALL CURRENT NEC AND NC BUILDING CODE REQUIREMENTS. CONTRACTOR SHALL FIELD LOCATE AND PROTECT ALL EXISTING UNDERGROUND UTILITIES.
- ALL CONDUITS IN FINISHED AREAS SHALL BE CONCEALED UNDERSLAB, IN WALLS, ANY CONDUIT THAT MUST BE EXPOSED IN UNFINISHED AREAS SHALL BE NEATLY ROUTED PARALLEL AND PERPENDICULAR TO THE BUILDING STRUCTURE. ROUTE IN CORNERS AND TIGHT ALONG COLUMNS WHERE POSSIBLE TO PROTECT AND CONCEAL. ALL EXPOSED CONDUITS, BOXES AND SUPPORTS SHALL BE PAINTED TO MATCH THE ADJACENT SURFACE.
- NEW TELEDATA OUTLETS SHOWN WILL BE BY THE ELECTRICAL CONTRACTOR AND SHALL INCLUDE BACKBOXES AND CONDUIT WITH PULL STRINGS BACK TO THE TELECOM CLOSET ON EACH FLOOR. ALL OTHER TELEDATA WORK INCLUDING, BUT NOT LIMITED TO PULLING CABLES, EQUIPMENT, INSTALLING, TERMINATING, TESTING AND LABELING OF CABLES, FACEPLATES AND JACKS SHALL BE BY THE OWNER'S VENDOR.

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NEW FACILITIES
SERVICE BUILDING FOR:

**DURHAM
TECHNICAL
COMMUNITY
COLLEGE**

1700 COOPER ST.
DURHAM, NC

SCO PROJECT
NUMBER
17-16794-01A

PROJECT NUMBER
17-034

Electrical Schedules,
Legend & Notes

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CONSTRUCTION DOCUMENTS

Revisions

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Checked JDH

Date SEPTEMBER 17, 2018

Sheet

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