

## LIGHT FIXTURE SCHEDULE

TYPE	LAMPS	VOLTAGE	SIZE	WATTS	DESCRIPTION	MANUFACTURER/MODEL AND NOTES <small>SEE NOTES AT BOTTOM FOR LED, LED DRIVER, BALLAST AND LAMP TYPE AND MANUFACTURER</small>
A1	LED 3000 LUMENS 70% MIN OUTPUT AT 60,000 HRS	120/277	2 x 4' x 3 1/4"D	23	LED-RECESSED GRID LENSED STATIC TROFFER FLUSH WHITE ALUMINUM DOOR, 125" MIN. PRISMATIC ACRYLIC LENS PAINTED AFTER FABRICATION. LENS/DOOR/FRAME MIN. 1/8" NEOPRENE GASKETS. 0-10V CCR 1% DIMMING DRIVER	METALUX #24-GR-FA-LD5-30-A125-UNV-L835-HCD-1-PAF-G3 OR APPROVED EQUAL BY COOPER, HUBBELL, LITHONIA, OR PHILIPS
A2	LED 9600 LUMENS 70% MIN OUTPUT AT 60,000 HRS			45	SAME AS 'A1' EXCEPT AS NOTED	METALUX #24-GR-FA-LD5-58-A125-UNV-L835-HCD-1-PAF-G3 OR APPROVED EQUAL BY COOPER, HUBBELL, LITHONIA, OR PHILIPS
A3	LED 6,400 LUMENS 70% MIN OUTPUT AT 60,000 HRS			48	SAME AS 'A1' EXCEPT AS NOTED	METALUX #24-GR-FA-LD5-64-A125-UNV-L835-HCD-1-PAF-G3 OR APPROVED EQUAL BY COOPER, HUBBELL, LITHONIA, OR PHILIPS
A4	LED 8,500 LUMENS 70% MIN OUTPUT AT 60,000 HRS			70	SAME AS 'A1' EXCEPT AS NOTED	METALUX #24-GR-FA-LD5-85-A125-UNV-L835-HCD-1-PAF-G3 OR APPROVED EQUAL BY COOPER, HUBBELL, LITHONIA, OR PHILIPS
A5	LED 10,000 LUMENS 70% MIN OUTPUT AT 60,000 HRS			72	SAME AS 'A1' EXCEPT AS NOTED	METALUX #24-GR-FA-LD5-100-A125-UNV-L835-HCD-1-PAF-G3 OR APPROVED EQUAL BY COOPER, HUBBELL, LITHONIA, OR PHILIPS
A6	LED 13,200 LUMENS 70% MIN OUTPUT AT 60,000 HRS			90	SAME AS 'A1' EXCEPT AS NOTED	METALUX #24-GR-FA-LD5-130-A125-UNV-L835-HCD-1-PAF-G3 OR APPROVED EQUAL BY COOPER, HUBBELL, LITHONIA, OR PHILIPS
E1	LED 1W	120/277	12"W x 8"H x 2"D	1	EXIT LIGHT-SINGLE FACE, CEILING MOUNT DIE CAST ALUMINUM HOUSING (BLACK) BRUSHED ALUMINUM FACE, RED POLYCARB. PANEL NO BATTERY, AC ONLY	LITHONIA #LES-1-R OR APPROVED EQUAL BY COOPER, HUBBELL, LITHONIA, OR PHILIPS

### LIGHT FIXTURE SCHEDULE NOTES

- 1- NEITHER THE LIGHT FIXTURE SCHEDULE MANUFACTURER/MODEL NUMBER NOR THE FIXTURE DESCRIPTION GIVES THE FULL DESCRIPTION AND REQUIREMENTS OF THE REQUIRED PARTICULARS. SEE REQUIREMENT FOR LAMPS, WATTAGES, VOLTAGE, SIZE AND MOST IMPORTANTLY THE FOLLOWING NOTES FOR A FULL DESCRIPTION OF LIGHT FIXTURE REQUIREMENTS.
- 2- WHERE MORE THAN ONE MANUFACTURER IS INDICATED, THE MANUFACTURER AND MODEL NUMBER ARE LISTED TO GIVE A DESCRIPTION AND STANDARD OF QUALITY ONLY, AND DO NOT LIMIT PRODUCTS TO A PARTICULAR MANUFACTURER. FIXTURES MANUFACTURED BY COLUMBIA, COOPER, HUBBELL, LITHONIA, THOMAS, OR THEIR REPRESENTATIVE'S ASSOCIATED LINES THAT ARE DEEMED EQUAL AND APPROVED BY THE DESIGNER SHALL BE ACCEPTED. WHERE ONLY ONE MANUFACTURER IS INDICATED, PROVIDE THAT PARTICULAR FIXTURE.
- 3- THE MANUFACTURER AND MODEL NUMBER ARE LISTED TO GIVE A DESCRIPTION AND STANDARD OF QUALITY ONLY, AND DO NOT LIMIT PRODUCTS TO A PARTICULAR MANUFACTURER UNLESS NOTED OTHERWISE. FIXTURES MANUFACTURED BY THE FOLLOWING MANUFACTURERS THAT ARE DEEMED EQUAL AND APPROVED BY THE DESIGNER WILL BE ACCEPTED:
  - A. COOPER FAMILY (LOCAL REP - QUALITY LIGHTING SOLUTIONS, 1829 CAPITAL BLVD, SUITE 119, RALEIGH, NC 27604, 919-277-0099, FAX 919-861-2063, WWW.QLSNC.COM)
  - B. HUBBELL FAMILY (LOCAL REP - TEAM LIGHTING, 3310 CROASDAILE DR, SUITE 200, DURHAM, NC 27705, 919-383-1956, FAX 919-383-9265, WWW.TEAMLIGHTING.COM)
  - C. LITHONIA FAMILY (LOCAL REP - K B STEPHEN CO, 203 CAPCOM AVE, SUITE 112, WAKE FOREST, NC 27587, 919-569-2190, FAX 919-569-6701, WWW.KBSTEPHENS.COM)
  - D. PHILIPS FAMILY (LOCAL REP - ALLSTATE LIGHTING SALES, 136 WINDCHIME CT, RALEIGH NC 27615, 919-847-4002, FAX 919-847-6724, WWW.ALLSTATELIGHT.COM)
- 4- FIXTURES SHALL BE PROVIDED WITH NECESSARY MOUNTING HARDWARE, OPTIONS AND COMPONENTS AS SPECIFIED AND AS REQUIRED FOR THE INSTALLATION. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL DRAWINGS AND PROVIDE FIXTURE TRIM SUITABLE FOR THE CEILING FINISH. COORDINATE PARTICULAR BUILDING CEILING GRID STYLE, SIZE AND FIXTURE MOUNTING ARRANGEMENT REQUIREMENTS WITH FIXTURE, AND PROVIDE FIXTURE AND FIXTURE ACCESSORIES SUITABLE FOR BUILDING CEILING GRID TYPE.
- 5- LIGHT FIXTURES INSTALLED IN SUSPENDED GRID CEILINGS SHALL BE SECURELY ATTACHED TO THE GRID. LIGHT FIXTURES TO BE INSTALLED IN SUSPENDED GRID CEILING SHALL BE FURNISHED BY THE MANUFACTURER WITH EARTHQUAKE CLIPS OR OTHER SIMILAR CLIP TO SECURE THE FIXTURE TO GRID. WHERE MANUFACTURER DOES NOT FURNISH SUCH CLIPS THE CONTRACTOR SHALL PROVIDE THE APPROPRIATE CLIPS BY B-LINE, CADDY OR OTHER APPROVED EQUAL FOR SECURING FIXTURE TO GRID.
- 6- LINEAR FLUORESCENT T8 LAMPS SHALL BE 32W, T8, 3500K COLOR, MINIMUM 82 CRI, 3100 INITIAL LUMENS, MINIMUM 30,000 HOURS RATED AVERAGE LIFE AT 3 HOURS PER START. LAMPS SHALL BE PHILIPS 'ADVANTAGE T8 OR APPROVED EQUAL BY SYLVANIA, OR GENERAL ELECTRIC.
- 7- COORDINATE LED FIXTURES, LED DRIVERS AND LED COMPONENTS OF FIXTURES CONTROLLED BY THE DIMMER/DIMMING SYSTEM WITH THE DIMMING SYSTEM MANUFACTURER FOR COMPATIBILITY, AND PROVIDE SUCH LIGHT FIXTURE DRIVERS AND DIMMING SYSTEM INTERFACES WHICH ARE COMPATIBLE WITH THE SPECIFIED DIMMER/DIMMING SYSTEM. PROVIDE DOCUMENTATION WITH THE DIMMER/DIMMING SYSTEM SUBMITTAL FROM THE DIMMING SYSTEM MANUFACTURER STATING SPECIFIC FIXTURE AND DRIVER TYPES PROPOSED TO BE CONTROLLED, AND THAT THIS EQUIPMENT IS COMPATIBLE WITH THE PROPOSED DIMMER/DIMMING SYSTEM. LED FIXTURES INDICATED ON THE DRAWINGS AND/OR PLANS CONTROLLED FROM A DIMMER SHALL HAVE A DIMMING TYPE DRIVER SUITABLE FOR OPERATION BY THE DIMMER. DIMMING DRIVERS FOR LED FIXTURES SHALL BE CLASS 2, 0-10V.
- 8- LED LIGHT FIXTURES SHALL BE CAPABLE OF HAVING THE DRIVER AND THE LED MODULES REPLACED SEPARATELY. LED LIGHT FIXTURES SHALL PROVIDE THE STATED LIGHT OUTPUT IN LUMENS AT THE STATED MINIMUM PERCENT LIFE BASED AND TESTED ACCORDING TO IES TM-21 STANDARDS. LED LIGHT FIXTURES SHALL COMPLY WITH IESNA LM-79 AND LM-80 STANDARDS. LED MODULES SHALL MEET ANSI C78.377A WITH A BINNING SELECTION TO A 3-STEP MACULAR ELLIPSE.
- 9- LED LIGHT FIXTURES SHALL BE CAPABLE OF DIMMING TO MINIMUM 5% OF NORMAL LIGHT OUTPUT UNLESS DESIGNATED IN SCHEDULE TO BE DIMMABLE TO 1%.
- 10- LED MODULES SHALL PROVIDE MINIMUM 85 CRI, AND SHALL BE 3500K COLOR.

### GENERATOR LOAD CAPACITY

THE PEAK DEMAND FOR THE ENTIRE BUILDING FOR THE PAST YEAR HAS BEEN	602 kVA
ASSUMING WORST CASE OF ENTIRE BUILDING LOAD ON GENERATOR--	602 x 1.25 = 753 kVA
LOAD ADDED TO GENERATOR	
PANEL 'DOSL7A' DEMAND	52 kVA
PANEL 'DOSL8A' DEMAND	39 kVA
TOTAL GENERATOR DEMAND	844 kVA
THE GENERATOR IS 1000kW/1250kVA AND IS SUITABLE FOR THE ADDED LOAD.	

## BOXES AND CONDUIT IN EXISTING MASONRY WALLS

- 1- THE CONTRACTOR SHALL MAKE EVERY EFFORT PRACTICAL TO INSTALL BOXES AND CONDUIT IN FINISHED SPACES LOCATED ON EXISTING MASONRY WALLS RECESSED IN THE WALL. DUE TO INSTALLATION AND MOVEMENT OF LARGE AND HEAVY EQUIPMENT, THE NEED TO INSTALL EQUIPMENT CLOSE TO THE WALL, AND CLEANING PROCEDURES, SURFACE BOXES AND SURFACE CONDUIT IS UNDESIRABLE.
- 2- THE CONTRACTOR SHALL BREAK OPEN THE CONCRETE MASONRY UNIT ABOVE THE CEILING AND INSTALL LIQUIDTIGHT FLEXIBLE METAL CONDUIT FISHED DOWN IN THE OPEN CELLS OF THE WALL, OR ANOTHER METHOD AS INDICATED IN DETAILS ON THE DRAWINGS IN ORDER TO INSTALL CONDUIT AND BOXES RECESSED IN THE EXISTING MASONRY WALL. BREAK AWAY MORTAR IN OPEN CELL AS REQUIRED. SEE 'FLUSH BOX IN EXISTING MASONRY WALL' DETAIL.
- 3- WHERE MORTAR OR GROUT IN CONCRETE MASONRY UNIT WALLS LIMITS THE INSTALLATION OF CONDUIT OR BOXES THE CONTRACTOR SHALL PARTIALLY CHIP OUT THE MASONRY WALL IN ORDER TO ROUTE CONDUIT WITHIN THE WALL.
- 4- WHERE BOXES ARE MOUNTED ON CONCRETE POURED WALLS OR CONCRETE SHEAR WALLS, PROVIDE SURFACE MOUNT BOXES PER DETAILS ON THE DRAWINGS.

## PRE-DEMOLITION NOTES

- 1- THE PROJECT SCOPE OF WORK AREA IS SERVED BY MULTIPLE NORMAL POWER PANELS AND AN OPTIONAL STANDBY POWER PANEL WHICH SERVES POWER TO CRITICAL EQUIPMENT. THESE PANELS SERVE EQUIPMENT AND OUTLETS WITHIN THE PROJECT SCOPE AREA AND MAY SERVE CRITICAL EQUIPMENT OUTSIDE THE PROJECT SCOPE AREA. IT IS IMPERATIVE THAT THE INADVERTENT SHUTDOWN OF CRITICAL EQUIPMENT SHALL BE AVOIDED. ANY SHUTDOWN SHALL BE PERFORMED IN AN ORDERLY MANNER ALLOWING THE OWNER TO BE PREPARED FOR OUTAGES.
- 2- THE FOLLOWING WORK SHALL BE PERFORMED PRIOR TO ANY ELECTRICAL DEMOLITION/RENOVATION WORK. ANY SHUTDOWN SHALL BE PERFORMED IN AN ORDERLY MANNER ALLOWING THE OWNER TO BE PREPARED FOR OUTAGES.
- 3- AT THE BEGINNING OF THE PROJECT THE CONTRACTOR SHALL PERFORM THE FOLLOWING WORK:
  - A) COORDINATE WITH THE OWNER AND DEVELOP AN ORDERLY SEQUENCE AND TIME LINE FOR EQUIPMENT SHUTDOWN, DISCONNECTION AND RECONNECTION.
  - B) COORDINATE WITH THE OWNER TO ENSURE THAT THE BRANCH CIRCUITS AND FEEDERS SERVING EQUIPMENT IN THE PROJECT SCOPE AREA TO BE DEMOLISHED DO NOT SERVE ANY LOADS WHICH ARE TO REMAIN WHICH ARE OUTSIDE THE PROJECT SCOPE AREA. RECONNECT AND EXTEND CIRCUITRY TO ANY EQUIPMENT OUTSIDE THE PROJECT SCOPE AREA SUCH THAT IT IS NOT DISCONNECTED FROM POWER.
  - C) COORDINATE WITH THE OWNER TO DETERMINE WHAT CRITICAL EQUIPMENT OUTSIDE THE PROJECT SCOPE AREA WILL BE SHUTDOWN DUE TO DEMOLITION OR RENOVATION. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER SUCH THAT CRITICAL EQUIPMENT IS SERVED BY A TEMPORARY POWER SOURCE AND THAT THE EQUIPMENT IS SHUTDOWN IN AN ORDERLY SHUTDOWN PROCESS.
  - D) COORDINATE WITH THE OWNER AND WHERE REQUIRED PERFORM SHUTDOWNS IN SEPARATE INCREMENTS OF THE DISTRIBUTION SYSTEM AND/OR IN SEPARATE INCREMENTS OF TIME AS TO HAVE THE LEAST IMPACT ON THE OPERATION OF THE FACILITY.
  - E) ENSURE THAT THE BRANCH CIRCUITS SERVING EQUIPMENT IN THE PROJECT SCOPE AREA TO BE DEMOLISHED DO NOT SERVE ANY ELECTRICAL LOADS WHICH ARE TO REMAIN WHICH ARE OUTSIDE THE PROJECT SCOPE AREA. RECONNECT AND EXTEND CIRCUITRY TO ANY EQUIPMENT OUTSIDE THE PROJECT SCOPE AREA SUCH THAT IT IS NOT DISCONNECTED FROM POWER.
  - F) SHUTDOWN OF EQUIPMENT IN LABORATORY AREAS WILL REQUIRE A THREE WEEK NOTICE TO THE OWNER.
- 4- DURING THE SHUTDOWN PROCESS IF CIRCUITRY TRACING IS PERFORMED AND CIRCUITS ARE DETERMINED TO SERVE PARTICULAR EQUIPMENT OR OUTLETS THE CONTRACTOR SHALL LIST THESE IN THE RESPECTIVE PANEL DIRECTORY AND INCLUDE THE ITEM SERVED AND ROOM NUMBER OF THE EQUIPMENT.

## ALTERNATES

THE FOLLOWING IS NOT INTENDED TO BE A COMPLETE DESCRIPTION OF THE ALTERNATES, BUT A BRIEF SYNOPSIS OF THE ALTERNATES WHICH INVOLVE ELECTRICAL WORK. SEE THE COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR A DETAILED DESCRIPTION OF THE WORK INVOLVING ALTERNATES.

- ALTERNATE #1** - REGARDING REPLACEMENT OF EXISTING DAMAGED LAB BENCH WORK SURFACES--  
 ALTERNATE: PROVIDE AN ADD TO REMOVE EXISTING SERVICE FITTINGS AND OTHER ELECTRICAL EQUIPMENT ON THE LAB BENCH WORK SURFACES, ALLOW REPLACEMENT OF THE WORK SURFACE, AND THEN REINSTALL EXISTING SERVICE FITTINGS AND OTHER ELECTRICAL EQUIPMENT ON THE NEW LAB BENCH WORK SURFACES. TYPICAL AT ALL LAB BENCH LOCATIONS IN THE PROJECT SCOPE AREA.
- ALTERNATE #2** - REGARDING BREAKERS IN PANELS 'DOSL7A' AND 'DOSL8A'--  
 BASE BID: PROVIDE MISSION CRITICAL TYPE MAIN BREAKER AND BRANCH BREAKERS AS INDICATED ON DRAWINGS IN PANELS 'DOSL7A' AND 'DOSL8A'.  
 ALTERNATE: PROVIDE A DEDUCT TO PROVIDE STANDARD ELECTRONIC TRIP CIRCUIT BREAKERS IN LIEU OF MISSION CRITICAL TYPE BREAKERS IN PANELS 'DOSL7A' AND 'DOSL8A'.
- ALTERNATE #3** - REGARDING EMERGENCY DISTRIBUTION SYSTEM--  
 BASE BID: PROVIDE EMERGENCY SYSTEM FED FROM EXISTING PANEL 'EHDP' PER THE ELECTRICAL RISER.  
 ALTERNATE: PROVIDE AN EMERGENCY SYSTEM ATS SERVED FROM THE EXISTING GENERATOR AND EXISTING SERVICE SWITCHBOARD, AND EMERGENCY DISTRIBUTION SYSTEM PER THE ELECTRICAL RISER.
- ALTERNATE #4** - REGARDING AUTOMATIC TRANSFER SWITCHES  
 BASE BID: PROVIDE ASCO SERIES '4000' CONVENTIONAL TWO-POSITION AUTOMATIC TRANSFER SWITCH (ATS), OR RUSSELECTRIC SERIES 'RTS-03' BYPASS-ISOLATION ATS, OR GE/ZENITH SERIES 'ZBTS' BYPASS-ISOLATION ATS.  
 ALTERNATE: PROVIDE AN ADD TO PROVIDE ASCO SERIES '4000' CONVENTIONAL TWO-POSITION ATS.

## OWNER OPERATION AND USE OF OPTIONAL STANDBY POWER

THE OWNER IS ADVISED THAT OPTIONAL STANDBY POWER (COMMONLY REFERRED TO AS EMERGENCY POWER) HAS BEEN PROVIDED AS REQUESTED PER THE OWNER'S 'RESEARCHERS EQUIPMENT LIST' (DRAWING 'LCOO2'). IN ADDITION TO THE REQUESTED OUTLETS, SPARE RECEPTACLES CONNECTED TO THE OPTIONAL STANDBY POWER IS PROVIDED TO USE IN THE EVENT OF MAINTENANCE OR FAILURE OF A BRANCH CIRCUIT. OVERUSE OF THESE SPARE RECEPTACLES FOR EQUIPMENT NOT PLANNED FOR AS NOTED IN THE 'RESEARCHERS EQUIPMENT LIST' CAN OVERLOAD THE OPTIONAL STANDBY SYSTEM. IT IS RECOMMENDED TO THE OWNER TO USE CAUTION WHEN ADDING LOADS TO THESE SPARE RECEPTACLES BEYOND THAT PLANNED FOR IN THE 'RESEARCHERS EQUIPMENT LIST'. OPTIONAL STANDBY POWER AND EMERGENCY POWER PROVIDED BY AN ONSITE GENERATOR IS NOT LIMITLESS.

## DEMOLITION NOTES

- 1- THE CONTRACTOR SHALL VISIT THE BUILDING AND SITE, AND FAMILIARIZE HIMSELF WITH EXISTING ELECTRICAL CONDITIONS IN ORDER TO GAIN A FULL UNDERSTANDING OF REQUIREMENTS TO PERFORM DEMOLITION WORK WITH REGARDS TO EXISTING CONDITIONS. THE CONTRACTOR SHALL OBSERVE AND INSPECT THESE CONDITIONS PRIOR TO BEGINNING WORK AND SHALL PERFORM HIS WORK IN A MANNER TO ACCOMMODATE THE EXISTING CONDITIONS.
- 2- THE ELECTRICAL CONTRACTOR SHALL REMOVE AS INDICATED ON THE DRAWINGS EXISTING LIGHT FIXTURES, SWITCHES, RECEPTACLES, JUNCTION AND OUTLET BOXES, VOICE AND DATA TELECOMMUNICATION OUTLETS, FIRE ALARM SYSTEM DEVICES AND OUTLETS, AND ASSOCIATED ELECTRICAL AND COMMUNICATION/SIGNALING SYSTEM BOXES AND EQUIPMENT UNLESS NOTED OTHERWISE. REMOVE ALL ASSOCIATED SUPPORTS, HANGERS, MOUNTING CHANNEL AND ASSOCIATED APPURTENANCES ON WHICH REMOVED ITEMS WERE MOUNTED. THE ELECTRICAL CONTRACTOR SHALL DISCONNECT SERVICES TO THIS SAME EQUIPMENT. COORDINATE THE DISCONNECTION OF ANY SERVICES AND DEMOLITION OF EQUIPMENT CLOSELY WITH THE GENERAL CONTRACTOR AND OWNER. SOME AREAS REQUIRE COMPLETE DEMOLITION WITHIN THE AREA AND SOME AREAS REQUIRE SELECTIVE DEMOLITION. COORDINATE THIS CAREFULLY WITH THE DRAWINGS, AND THE GENERAL CONTRACTOR.
- 3- REMOVE POWER BRANCH CIRCUITRY, SWITCHES AND COMMUNICATION/SIGNALING SYSTEMS WIRING AND RACEWAY WHICH SERVE FIXTURES, DEVICES, OUTLETS, AND EQUIPMENT THAT IS BEING REMOVED. REMOVE THIS CIRCUITRY BACK TO ITS SOURCE OR BACK TO THE POINT WHERE CIRCUITRY REMAINS TO COMPLETE SERVING EXISTING ITEMS. RECONNECT AND EXTEND CIRCUITRY TO MAINTAIN POWER AND COMMUNICATION/SIGNALING SERVICES TO REMAINING AND RELOCATED EQUIPMENT. ALL INACTIVE AND/OR ABANDONED POWER AND COMMUNICATION/SIGNALING WIRING ENCOUNTERED SHALL BE REMOVED SUCH THAT THERE IS NO REMAINING ABANDONED WIRING UNLESS NOTED OTHERWISE. UPON OBSERVATION OF ANY EXISTING ABANDONED INACTIVE POWER AND/OR COMMUNICATION/SIGNALING WIRING, THE CONTRACTOR SHALL NOTIFY THE DESIGNER AND OWNER IMMEDIATELY IN ORDER TO DETERMINE IF SUCH INACTIVE ABANDONED WIRING SHOULD BE REMOVED.
- 4- ALL CONDUIT BETWEEN DEMOLISHED DEVICES SHALL BE REMOVED. HOMERUN CONDUIT FROM POINTS ABOVE CEILING WITHIN THE AREA OF WORK TO PANEL, MOTOR CONTROL CENTER OR OTHER DISTRIBUTION EQUIPMENT MAY REMAIN FOR FUTURE USE OR BE REUSED IN THE PROJECT. LEAVING EMPTY CONDUIT NOT USED SHALL BE LABELED AT EACH END AS TO THE LOCATION OF THE OTHER END OF THE CONDUIT (CONDUIT ABOVE THE CEILING SHALL BE LABELED WITH THE PANEL OR OTHER EQUIPMENT NAME WHERE IT ORIGINATES, AND CONDUIT AT THE PANEL, ETC. SHALL BE LABELED AS TO THE ROOM NUMBER OF THE END POINT OF CONDUIT).
- 5- ALL REMAINING FEED-THRU PULL BOXES/OUTLETS/JUNCTION BOXES SHALL BE ACCESSIBLE. INTERCEPT AND EXTEND AND/OR RELOCATE CIRCUITRY AND BOXES AS REQUIRED SUCH THAT ALL REMAINING BOXES SHALL BE ACCESSIBLE.
- 6- ALL CONDUIT SHALL BE CONCEALED IN WALL, ABOVE CEILING, OR BELOW FLOOR IN FINISHED AREAS UNLESS NOTED OTHERWISE.
- 7- REMOVE, PROTECT, CLEAN AND REFURBISH FIXTURES, DEVICES AND EQUIPMENT, AND RELAMP FIXTURES WHERE INDICATED TO BE REMOVED AND REINSTALLED. THE CONTRACTOR SHALL INSPECT THE EQUIPMENT AND NOTIFY THE DESIGNER ON DETERMINATION THAT EQUIPMENT IS NOT SUITABLE FOR REUSE AND REINSTALLATION WHEN EQUIPMENT IS REMOVED.
- 8- LOCATE AND PROTECT EXISTING BUILDING INTERIOR UTILITIES AND SERVICES DURING DEMOLITION.
- 9- ALL DEMOLITION, INCLUDING HANGERS, SUPPORTS, ETC., SHALL BE COMPLETED WITHIN THE FIRST 33% OF THE PROJECT SCHEDULE TIME PERIOD. THE ONLY EXCEPTION TO THIS IS ANY EXISTING CIRCUITRY/EQUIPMENT WHICH REQUIRES INTERCEPTION AND EXTENSION, OR SYSTEMS WHICH NEED TO REMAIN IN PLACE UNTIL NEW EQUIPMENT IS INSTALLED. ALL DEMOLITION WORK SHALL BE PERFORMED AS SOON AS POSSIBLE WITHIN THE PROJECT SCHEDULE.
- 10- PATCH AREAS WHERE FIXTURES, DEVICES AND EQUIPMENT IS REMOVED TO MATCH EXISTING FINISH.
- 11- LIMIT DAMAGE TO SURROUNDING EXISTING CONSTRUCTION (WALL, CEILING, ETC.) TO A MINIMUM DURING DEMOLITION. COORDINATE WITH GENERAL CONTRACTOR FOR PATCHING OF AREAS WHERE DAMAGED DURING DEMOLITION.
- 12- COORDINATE ANY AND ALL WORK WITH ALL OTHER TRADES PRIOR TO DEMOLITION SO AS TO AVOID CONFLICT DURING DEMOLITION AND CONSTRUCTION.
- 13- WHERE DEVICES OR EQUIPMENT IS REMOVED AND THE OUTLET IS BLANKED, PROVIDE A LABEL ON THE BLANK COVER SIMILAR TO DEVICE LABELING WHICH INDICATES THE SYSTEM OR DEVICE THAT WAS REMOVED (I.E. - FA= FIRE ALARM, TC=TELECOM, PO=POWER). PROVIDE A TAG OR LABEL INSIDE THE BOX INDICATING IN FULL DESCRIPTION THE SYSTEM THE BOX SERVED AND THE PANEL WHERE THE CONDUIT ORIGINATES IF BOX WAS A POWER OUTLET. PAINT THE BOX PER THE SPECIFICATIONS WHERE THE BOX IS ABOVE FINISHED CEILING OR IN A UNFINISHED SPACE.
- 14- ALL PANEL DIRECTORIES SHALL BE UPDATED TO REFLECT DEMOLITION, AND SHALL INDICATE EQUIPMENT SERVED AND ROOM NUMBERS (AS INDICATED ON FINAL BUILDING ROOM SIGNAGE) OF EQUIPMENT LOCATION, OR SPARE, OR SPACE. DIRECTORIES SHALL BE TYPED. OLD DIRECTORIES SHALL BE TURNED OVER TO OWNER OR LEFT IN THE PANEL AT THE DIRECTION OF THE OWNER.
- 15- TURN OVER ALL REMOVED FIRE ALARM DEVICES AND EQUIPMENT TO THE OWNER'S FIRE ALARM SHOP.
- 16- ITEMS SHOWN ON THE DEMOLITION AND RENOVATION DRAWINGS HAVE BEEN OBTAINED FROM RECORD DRAWINGS AND FROM A SURVEY WHEN THE ROOMS WERE OCCUPIED AND CONTAINED EQUIPMENT WHICH OBSTRUCTED VIEWS OF SOME AREAS. EXISTING FIXTURES, DEVICES, OUTLETS AND OTHER EQUIPMENT MAY BE LOCATED AT THE SITE WHICH IS NOT REFLECTED ON THE DEMOLITION AND RENOVATION DRAWINGS. THIS EXISTING EQUIPMENT SHALL BE TREATED AS EXISTING TO REMAIN UNLESS DETERMINED OTHERWISE BY THE DESIGNER AND/OR OWNER AT THE SITE, OR AS REQUIRED TO BE REMOVED OR RELOCATED BY THE BUILDING CODE OR DUE TO NEW RENOVATION CONSTRUCTION. WHERE ITEMS OR EQUIPMENT IS LOCATED THAT IS IN QUESTION AS TO REMAIN OR BE DEMOLISHED THE CONTRACTOR SHALL COORDINATE WITH THE DESIGNER TO DETERMINE THE OUTCOME.

## COORDINATION OF WORK PERFORMED BY OTHERS

OWNER - WHERE MONITORING OF FREEZERS IS REQUIRED THE OWNER SHALL CONTACT A FREEZER MONITORING COMPANY FOR INSTALLATION, SERVICE AND MONITORING OF THE FREEZER ALARMS. ONE SUCH MONITORING COMPANY UNUS IS 'MINUS 80 MONITORING', CONTACT PERSON IS BRITT CARTER, 919-302-0012. IT IS THE RESPONSIBILITY OF THE OWNER AND/OR USER TO CONTACT AND ENGAGE A MONITORING COMPANY.

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Kramer Engineering Services  
 5517 Cascade Dr.  
 Chapel Hill, NC 27514  
 TEL: (919)935-3350  
 Email: dkramer@kesplc.com  
 Firm License: P-1089



REVISION  
 NO. 1  
 NO. 2  
 NO. 3

SHEET TITLE  
**LIGHT FIXTURE SCHEDULE, NOTES, GENERATOR LOAD CAPACITY**

SCALE (IF ANY)  
 NOT TO SCALE

UNCS SCHOOL OF MEDICINE  
 NEUROSCIENCES RESEARCH BUILDING  
 7th & 8th FLOORS FOR DERMATOLOGY  
 LOCATION  
 15 Wilson Farm Road, Carrboro, NC 27510  
 Chapel Hill, North Carolina 27599-7250

ISSUE DATE  
 9/25/2019  
 JOB NO.  
 10761-00  
 DWG. NO.  
**E003**



**BID SET**