

REQUIREMENTS FOR POWER INTERRUPTIONS (APPLY TO THE ENTIRE PROJECT):

- POWER INTERRUPTIONS**
- A. THE CONTRACTOR SHALL PREPARE A DETAILED POWER PHASING/SEQUENCE PLAN AND SUBMIT THE PLAN TO THE COTR FOR WRITTEN APPROVAL PRIOR TO THE COMMENCEMENT OF ANY WORK. NO POWER SHALL BE INTERRUPTED BY THE CONTRACTOR (OR AT THE CONTRACTOR'S REQUEST) WITHOUT OBTAINING WRITTEN APPROVAL FROM THE COTR AT LEAST 14 DAYS IN ADVANCE. APPROVAL FOR EACH OUTAGE SHALL BE REQUESTED IN WRITING AT LEAST 21 DAYS IN ADVANCE. EACH REQUEST SHALL INCLUDE A DESCRIPTION OF THE WORK TO BE PERFORMED, THE ESTIMATED DURATION OF THE OUTAGE, THE AREAS AND LOADS AFFECTED BY THE OUTAGE, AND ANY OTHER INFORMATION THAT MAY BE REQUIRED BY THE COTR TO EVALUATE THE REQUEST. NO SERVICE OR CIRCUIT SHALL BE DE-ENERGIZED UNLESS THE CONTRACTOR HAS TRACED THE CIRCUIT TO VERIFY THAT THE CIRCUITS ACTUALLY SERVE THE LOADS AS INDICATED ON THE OUTAGE REQUEST. IMMEDIATELY PRIOR TO EACH OUTAGE, THE CONTRACTOR SHALL CONFIRM THAT THE AFFECTED AREAS HAVE RECEIVED ADEQUATE NOTICE OF THE OUTAGE.
- B. PROVIDE ALL NECESSARY MATERIALS AND LABOR TO PROVIDE TEMPORARY POWER TO DEVICES AFFECTED BY THE POWER INTERRUPTION TO MINIMIZE THE INTERRUPTION ON ESSENTIAL CIRCUITS. TEMPORARY POWER DEVICES INCLUDE, BUT ARE NOT LIMITED TO, EXTENSION CORDS, TEMPORARY LIGHTING FIXTURES, CIRCUIT BREAKERS, PANELBOARDS AND NECESSARY MATERIALS FOR CONNECTIONS TO ALTERNATE POWER SOURCES FOR FEEDERS.
- C. REPLACEMENT PANELS SHALL BE READY TO BE ENERGIZED PRIOR TO DEMOLITION OF EXISTING PANELS. CIRCUITS SHALL BE RE-CIRCUITED TO THE REPLACEMENT PANEL IN A MANNER TO MINIMIZE THE DURATION OF THE OUTAGE.
- D. CONTRACTOR SHALL NOT SHUTDOWN OR INTERRUPT ANY SERVICE WITHOUT THE PRESENCE AND ON THE SPOT APPROVAL OF THE COTR AND/OR HIS SPECIFIED REPRESENTATIVE.
- E. ONLY ONE (1) PRIMARY (4160 V) CIRCUIT SHALL BE PERMITTED TO BE SHUT DOWN AT A TIME.
- F. WHENEVER A SOURCE OF POWER TO A BUILDING IS INTERRUPTED, INCLUDING THE NORMAL SERVICE OR THE EMERGENCY GENERATOR, THE CONTRACTOR SHALL FURNISH A TEMPORARY PORTABLE GENERATOR SET FOR THE DURATION OF THE OUTAGE AS AN ALTERNATE SOURCE. THE PORTABLE GENERATOR SET SHALL BE PROVIDED AS A BACKUP TO THE PERMANENTLY INSTALLED EMERGENCY GENERATOR WHEN THE NORMAL SERVICE IS INTERRUPTED.
- G. RECORD THE EXISTING PHASE SEQUENCE PRIOR TO DE-ENERGIZING ANY FEEDERS OR BRANCH CIRCUITS. PRIOR TO RE-ENERGIZING ANY FEEDERS OR BRANCH CIRCUITS, CONFIRM, IN THE PRESENCE OF THE COTR'S REPRESENTATIVE, THAT THE PHASE SEQUENCE MATCHES THE PRIOR SEQUENCE.

A. TEMPORARY MEASURES SHALL COMPLY WITH UFAS, OSHA, AND ANY OTHER APPLICABLE STANDARDS.

B. TEMPORARY MEASURES SHALL BE COORDINATED WITH COTR AND BE IN PLACE PRIOR TO DEMOLITION OR CONSTRUCTION.

C. DO NOT LEAVE TOOLS OR EQUIPMENT UNATTENDED.

D. IN NON-RESTRICTED AREAS (I.E. LOCATIONS ACCESSIBLE TO PATIENTS, VISITORS, & NON-ENGINEERING STAFF), CONTRACTOR SHALL LIMIT SITE SUPPLIES TO MANAGEABLE AMOUNTS OF MATERIALS OF CONSTRUCTION.

E. CONTRACTOR IS RESPONSIBLE FOR INSPECTING AND MAINTAINING PROPER SAFETY MEASURES AND TEMPORARY PROVISIONS. SEE SPECIFICATION 260511.

F. TEMPORARY MEASURES SHALL PREVENT PATIENT STAFF/VISITOR ACCESS TO CONSTRUCTION AREAS, ESPECIALLY WHEN CONSTRUCTION ACTIVITIES ARE UNATTENDED.

G. DO NOT SIGNIFICANTLY INHIBIT VISITOR/PATIENT/PATIENT. MAINTAIN EASILY ACCESSIBLE ROUTES TO MEDICAL CENTER SERVICES. MINIMIZE AFFECTS OF CONSTRUCTION ON WALKWAYS.

H. UNATTENDED, UNMARKED, OPEN TRENCHES, HOLES, ETC., ARE PROHIBITED.

ELECTRICAL DEMOLITION NOTES (APPLY TO THE ENTIRE PROJECT):

- D1. EXISTING EQUIPMENT, SUCH AS LIGHTING FIXTURES, WIRING DEVICES, CONDUITS, ETC. SHOWN ON PLANS TO BE REMOVED COMPLETELY: CUT/CAP CONDUITS AT THE SOURCE AND REMOVE CONDUIT, DISCONNECT WIRING AT THE OVERCURRENT PROTECTIVE DEVICE AND REMOVE WIRING COMPLETELY.
- D2. REMOVE ALL ACCESSIBLE ABANDONED WIRING OF ALL TYPES, OR CAP AND LABEL IN JUNCTION BOX FOR RE-USE, IN COMPLIANCE WITH THE NATIONAL ELECTRIC CODE.
- D3. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND CONDUCTORS PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.

F1. FIRE ALARM CONDUCTORS AND CABLES SHALL BE ENCLOSED IN METAL CONDUIT

- F2. PROVIDE FIRE ALARM CONNECTIONS TO HVAC SYSTEM CONTROLS AND DEVICES FOR PROPER OPERATION, INCLUDING SHUTDOWN. SEE MECHANICAL DOCUMENTS FOR COORDINATION AND LOCATION. IF A FIRE ALARM SIGNALING DEVICE OR FIRE ALARM IN ANY AREA OF THE BUILDING (SMOKE, HEAT, OR SPRINKLER FLOW), THE FIRE ALARM SYSTEM SHALL CAUSE THE AIR HANDLER(S) SERVING THE SMOKE COMPARTMENT WHERE THE ALARM INITIATED TO SHUT DOWN, AND ALL SMOKE FANS ASSOCIATED WITH THAT SMOKE COMPARTMENT TO SHUT DOWN, AND EXHAUST DAMPERS ASSOCIATED WITH THOSE FANS TO CLOSE.
- F3. FIRE ALARM CONTROL AND MONITORING, INCLUDING AIR HANDLER SHUTDOWN AND DAMPER CLOSURE SHALL BE ACCOMPLISHED USING SUPERVISED FIRE ALARM WIRING TO WITHIN THREE FEET OF THE DEVICE BEING CONTROLLED OR MONITORED. FOR THE PURPOSE OF THIS MEASUREMENT ON AIR HANDLERS, THE MOTOR STARTER OR VFD IS THE DEVICE BEING CONTROLLED.
- F4. COORDINATE LOCATIONS OF CEILING MOUNTED SMOKE DETECTORS WITH MECHANICAL SYSTEMS. DETECTORS SHALL NOT BE IN DIRECT AIR FLOW OR WITHIN 3 FEET OF SUPPLY DIFFUSERS.
- F5. PROVIDE FULL SMOKE DETECTOR COVERAGE FOR ALL PROPOSED NEW ELECTRICAL ROOMS UNDER THIS PROJECT. DEVICES MAY NOT BE SHOWN ON FLOOR PLANS. DETECTORS SHALL BE AN EXTENSION OF THE EXISTING ADDRESSABLE SIMPLEX FIRE ALARM SYSTEM SERVING THE BUILDING.
- F6. PROVIDE HEAT DETECTORS IN PROPOSED GENERATOR ENCLOSURES. CONNECT TO FIRE ALARM CONTROL PANEL OF THE BUILDING FED BY THE GENERATOR. PROVIDE A TRANSIENT PROTECTION CUBE WHERE CONDUCTORS ENTER THE BUILDING. PROVIDE A

E1. EXISTING ESSENTIAL SYSTEM LOADS IN BUILDINGS 4, 5, 6, AND 107 ARE NOT SEPARATED INTO SEPARATE BRANCHES AS REQUIRED BY NFPA 70 ARTICLE 517 AND NFPA 99. BRANCH CIRCUITS BEING CIRCUITED TO NEW ESSENTIAL SYSTEM PANELS SHALL BE CIRCUITED TO THE AND RE-PRIME THE ESSENTIAL SYSTEM IN ACCORDANCE WITH NFPA TO ARTICLE 517 AND NFPA 99, BASED UPON THE FUNCTIONS THEY SERVE. THE FOLLOWING BRANCHES SHALL SERVE THE INDICATED FUNCTIONS FOR EXISTING LOADS:

E2. LIFE SAFETY BRANCH: EXISTING BRANCH CIRCUITS SERVING THE FOLLOWING FUNCTIONS SHALL BE CIRCUITED TO THE LIFE SAFETY BRANCH:

1. EGRESS ILLUMINATION AND EXIT SIGNS
2. HOSPITAL COMMUNICATIONS SYSTEMS USED FOR ISSUING INSTRUCTION DURING EMERGENCY CONDITIONS
3. ELEVATOR CAB LIGHTING, CONTROL, COMMUNICATIONS, AND SIGNAL SYSTEMS
4. ELECTRICALLY OPERATED DOORS USED FOR BUILDING EGRESS

E3. CRITICAL BRANCH: EXISTING BRANCH CIRCUITS SERVING THE FOLLOWING FUNCTIONS SHALL BE CIRCUITED TO THE CRITICAL BRANCH:

1. TASK ILLUMINATION AND SELECT RECEPTACES IN THE FOLLOWING:
 - a. PATIENT CARE ROOMS
 - b. MEDICATION PREPARATION AREAS
 - c. PHARMACY DISPENSING AREAS
 - d. NURSES' STATIONS
2. SPECIALIZED PATIENT CARE TASK ILLUMINATION AND RECEPTACES
3. NURSE CALL SYSTEMS
4. BLOOD, BONE, AND TISSUE BANKS
5. TELEPHONE EQUIPMENT ROOMS AND CLOSETS

- E4. ALL WIRING FOR THE LIFE SAFETY BRANCH AND THE CRITICAL BRANCH SHALL BE IN SEPARATE RACEWAYS FROM ALL WIRING NOT ON THE SAME BRANCH. EXISTING BRANCH CIRCUITS SHARING RACEWAYS WITH OTHER BRANCHES OR THE NORMAL SYSTEM SHALL NOT BE CIRCUITED TO THE CRITICAL OR LIFE SAFETY BRANCH.
- E6. ALL REMAINING FUNCTIONS NOT INDICATED ABOVE SHALL REMAIN CIRCUITED TO THE EQUIPMENT SYSTEM. REFER TO NFPA 70 ARTICLE 517 AND NFPA 99 FOR REQUIREMENTS.

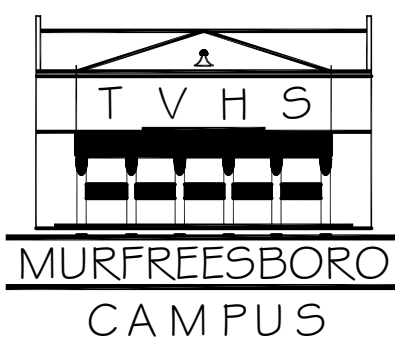
TYPE	MANUFACTURER	CATALOG	DATE	LAMPS	MOUNTING	REMARKS
A2	ACUITY - LITHONIA NOTE L11	2SP8 G " FW A12125 " "	10/27	2 F32T8	RECESSED-GRID	2X4 TROFIER, 2 LAMPS, 0.125" THICK A12 ACRYLIC LENS
A3	ACUITY - LITHONIA NOTE L11	2SP8 G " FW A12125 " "	10/27	3 F32T8	RECESSED-GRID	2X4 TROFIER, 3 LAMPS, 0.125" THICK A12 ACRYLIC LENS
B2	ACUITY - LITHONIA NOTE L11	2SP8 G " FW A12125 " "	10/27	2 F17T8	RECESSED-GRID	2X2 TROFIER, 2 LAMPS, 0.125" THICK A12 ACRYLIC LENS
B3	ACUITY - LITHONIA NOTE L11	2SP8 G " FW A12125 " "	10/27	3 F17T8	RECESSED-GRID	2X2 TROFIER, 3 LAMPS, 0.125" THICK A12 ACRYLIC LENS
G	LITHONIA NOTE L11	AF10 232 " HC WGAP/PV ELMG	10/27	2 F32T8	SURFACE	4 FLUORESCENT STRIP, WITH WIRE GUARD
EM	LITHONIA NOTE L11	ELMG SD	277	FURNISHED W/fixture	SURFACE/WALL	EMERGENCY BATTERY LIGHT, SELF DIAGNOSTIC PROVIDE A.M.O. OF TWO IN EVERY GENERATOR ENCLOSURE & TRANSFER SWITCH LOCATIONS
WPL4	HUBBELL - BEACON	TRV-D36G-90UNV14FPCWMBY	10/27	36 LED ENCL 4500K/6100LM	SURFACE/WALL	EXTERIOR BUILDING MOUNTED LIGHT W/INTEGRAL PHOTOELECTRIC CONTROL FORWARD THROTTLE TYPE 4 DISTRIBUTION - 22°F MINIMUM AMBIENT TEMPERATURE DRIVER EQUAL TO EXISTING FIXTURES, SUBSTITUTIONS REQUIRE APPROVAL FROM COTR.
X1	LITHONIA NOTE L11	LES 1 R	10/27	RED LED	SURFACE	EXIT SIGN, SINGLE FACE
X2	LITHONIA NOTE L11	LES 2 R	10/27	RED LED ENCL	SURFACE	EXIT SIGN, DOUBLE FACE

L1. COORDINATE MOUNTING METHOD FOR CEILING MOUNTED FIXTURES (E.G. GRID VS. FLANGE) WITH THE CEILING MATERIAL AS INDICATED ON THE ARCHITECTURAL REFLECTED CEILING PLAN.

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| L2. | COORDINATE MOUNTING LOCATION FOR WALL MOUNTED FIXTURES WITH ARCHITECTURAL PLANS, SECTIONS, DETAILS, AND ELEVATIONS. |
| L3. | ALL 1'X4' FIXTURES ARE TYPE "G" AND ALL 2'X4' ARE TYPE "A" UNLESS NOTED OTHERWISE. |
| L4. | FIXTURE TYPES MAY APPEAR IN THE SCHEDULE THAT ARE NOT USED ON THE PLANS OR REQUIRED FOR THE WORK. SEE FLOOR PLAN AND OTHER DRAWINGS FOR FIXTURE QUANTITIES AND LOCATIONS. |
| L5. | ALL LINEAR LAMP FIXTURES WITH 3, 4, OR 6 LAMPS SHALL HAVE MULTIPLE BALLASTS FOR DUAL SWITCHING AS INDICATED IN ELECTRICAL GENERAL NOTES. A SINGLE BALLAST MAY BE PROVIDED ONLY FOR FIXTURES THAT ARE NOT INDICATED AS DUAL SWITCHED ON THE FLOOR PLANS. |
| L6. | ALL SINGLE FACE EXIT SIGNS ARE TYPE "X1" UNLESS NOTED OTHERWISE. ALL DUAL FACE EXIT SIGNS ARE TYPE "X2" UNLESS OTHERWISE NOTED. |
| L7. | ALL FLUORESCENT LAMPS SHALL HAVE A COLOR TEMPERATURE OF 3500K AND A MINIMUM CRI OF 82 UNLESS NOTED OTHERWISE. |
| L8. | WHERE A FIXTURE TYPE HAS MULTIPLE VOLTAGES INDICATED, PROVIDE AN EMERGENCY VOLTAGE BALLAST THAT WILL ACCEPT ANY VOLTAGE BETWEEN THE NOMINAL VOLTAGES INDICATED. |
| L9. | ALL FLUORESCENT BALLASTS NOT ON THE LIFE SAFETY BRANCH OF THE EMERGENCY SYSTEM SHALL UTILIZE PROGRAMMABLE START METHOD UNLESS OTHERWISE NOTED. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. ALL FLUORESCENT BALLASTS SHALL BE ELECTRONIC WITH LESS THAN 10% TOTAL HARMONIC DISTORTION. |
| L10. | ALL FIXTURES WITH LINEAR FLUORESCENT LAMPS SHALL BE PROVIDED WITH A BALLAST DISCONNECTING MEANS IN ACCORDANCE WITH NFPA 70 ARTICLE 410.73 (G). |
| L11. | MANUFACTURER INFORMATION IS THE BASIS OF DESIGN. OTHER MANUFACTURERS OFFERING EQUIVALENT PRODUCTS MAY BE PROVIDED. SEE SPECIFICATIONS FOR REQUIREMENTS. |

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Tennessee Valley Healthcare System



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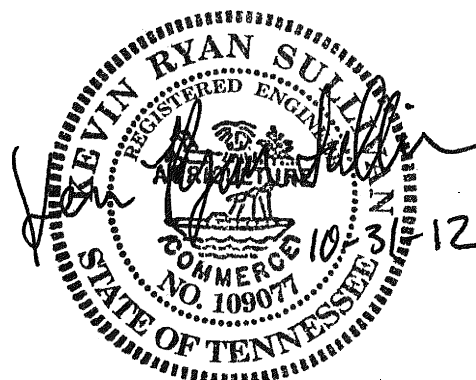
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