GENERAL NOTES:

1. ALL ELECTRICAL EQUIPMENT SHOWN ON THE DRAWINGS AND/OR REQUIRED FOR THE FULL INTEGRITY AND COMPLETION OF THE CONTRACT SHALL BE FURNISHED, INSTALLED AND CONNECTED BY THE CONTRACTOR, EXCEPT WHERE EQUIPMENT SHOWN IS IDENTIFIED AS 'EXISTING' OR OTHERWISE NOTED ON THE DRAWINGS, TO PRODUCE FULLY FUNCTIONAL AND COMPLETE SYSTEMS.

2. EXCEPT WHERE SPECIFICALLY DIMENSIONED OR OTHERWISE LOCATED BY PERTINENT DETAILS, THE ROUTING OF CONDUITS SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR MAY MODIFY CONDUIT ROUTINGS SHOWN ON DRAWINGS TO ACCOMMODATE EXISTING FIELD CONDITIONS, PROVIDED THAT PROPER PULL BOXES ARE PROVIDED TO FACILITTE CABLE PULLING. THE EXACT ROUTING AND METHODS OF SUPPORT SHALL BE DETERMINED IN THE FIELD.

3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH FEDERAL REGULATIONS, INCLUDING THE AMERICANS WITH DISABILITIES ACT – ADA, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), ALL STATE CODES AND REGULATIONS GOVERNING THE INSTALLATION, INCLUDING BUT NOT LIMITED TO THE CURRENT EDITION OF THE FOLLOWING CODES:

   a. NFPA 70 – 2008, NATIONAL ELECTRICAL CODE
   b. NFPA 72 – 2007, NATIONAL FIRE ALARM CODE
   c. NFPA 90A – 2009, STANDARD FOR THE INSTALLATION OF A/C AND VENTILLATION SYSTEMS
   d. NFPA 99 – 2009, HEALTH CARE FACILITY CODE
   e. NFPA 101 – 2009, LIFE SAFETY CODE
   f. NFPA 110 – 2009, STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS
   g. 2009 INTERNATIONAL BUILDING CODE
   h. 2009 INTERNATIONAL MECHANICAL CODE
   i. 2009 INTERNATIONAL FIRE CODE
   j. 2007 ASME/ANSI A17.1 ELEVATOR CODE
   k. VA FIRE PROTECTION DESIGN MANUAL
   l. VA ELECTRICAL DESIGN MANUAL FOR HOSPITALS

4. ALL 600 VOLT ELECTRICAL POWER CONDUCTORS SHALL BE COPPER, INSULATION TYPE XHHW OR DUAL RATED THHN/THWN, RATED 90 DEGREES CENTIGRADE, AND INSTALLED IN RACEWAY PER CODE AND SPECIFICATION REQUIREMENTS.

5. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS, LABOR AND ATTENDANCE FOR THE OPERATION OF TEMPORARY LIGHT AND CONSTRUCTION POWER AS REQUIRED DURING WORKING HOURS FOR THE ENTIRE CONSTRUCTION PERIOD.

6. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS. ALL DICREPANCIES THAT MAY INTERFERE WITH THE PROJECT SHALL BE REPORTED TO THE COTR BEFORE STARTING WORK.

7. ALL CONDUITS SHALL BE ¾" MINIMUM SIZE UNLESS OTHERWISE NOTED. POWER CONDUITS SHALL BE RIGID GALVENIZED STEEL (RGS) IN MECHANICAL AND ELECTRICAL ROOMS, ELECTRICAL METALLIC TUBING (EMT) IN OTHER AREAS, OR AS OTHERWISE NOTED ON PLANS. ALL MEDIUM VOLTAGE CONDUITS SHALL BE RGS ONLY, PAINTED ORANGE WHEREVER VISIBLE.

8. ALL RACEWAYS, WIRING AND OTHER WORK IS NEW UNLESS SPECIFICALLY INDICATED OTHERWISE ON DRAWINGS OR DESCRIBED IN SPECIFICATIONS.

9. MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT ARE NOT BEING REMOVED UNDER THIS CONTRACT, BUT WHICH MAY BE AFFECTED BY THIS WORK. PROVIDE CONDUIT, WIRING, ETC. THAT MAY BE NESSECARY TO MAINTAIN THE FUNCTIONALITY OF ALL EXISTING CIRCUITS AND SYSTEMS.

10. EXISTING UNDERGROUND DUCTS THAT ARE TO BE USED SHALL BE THROUGHLT CLEANED BY PULLING THROUGH A FULL SIZE MANDRED AND TIGHT FITTING BRUSH (2 PASSES) PRIOR TO PULLING IN NEW CONDUCTORS.

11. ALL EQUIPMENT THAT IS REMOVED SHALL BECOME THE PROERTY OF THE CONTRACTOR, UNLESS INDICATED OTHERWISE BY THE COTR, AND SHALL BE REMOVED FROM THE PREMESIS AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LAWS, ORDINANCES AND REQUIREMENTS.

12. ALL NEW CONDUIT SHALL BE RUN ABOVE HUNG CEILINGS, OR OTHERWISE CONCEALLED WHEREVER POSSIBLE.

13. REMOVE EXISTING CEILING TILES AND GRID IN AREAS WHERE NECESSARY TO PERFORM WORK. REINSTALL CEILING TILES AND GRID AFTER COMPLETION OF WORK IN HUNG CEILING SPACES. REPLACE DAMAGED TILES AND GRID WITH NEW MATERIALS MATCHING THE EXISTING.

14. MAINTAIN EXISTING FIRE ALARM, DETECTION, COMMUNICATIONS, SECURITY AND OTHER SYSTEMS FULLY OPERATIONAL AND IN SERVICE AT ALL TIMES, UNLESS OTHERWISE APPROVED IN WRITING BY THE COTR. THE CONTRACTOR SHALL COMPLY WITH NFPA 101 IF FIRE ALARM OR SPRINKLER SYSTEMS WILL BE OUT OF SERVICE DUE TO PROJECT RELATED WORK. A FIRE WATCH, AT THE CONTRACTOR'S EXPENSE, SHALL BE PROVIDED AS REQUIRED OR DIRECTED.

15. ALL ASBESTOS CONTAINING MATERIALS (ACM) AND LEAD PAINT KNOWN TO THE VA HAVE BEEN REMOVED, ABATED, OR ARE NOT IN AREAS AFFECTED BY THIS WORK. SHOULD THE CONTRACTOR ENCOUNTER ANY SUSPECTED ACM OR LEAD PAINT WHILE PERFORMING WORK, NOTIFY THE COTR IMMEDIATELY.

16. THE VA WILL OCCUPY THE BUILDING DURING THE ENTIRE PERIOD OF CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE FULLY WITH ALL VA PERSONNEL DURING CONSTRUCTION OPERATIONS TO MINIMIZE CONFLICTS AND INCONVENIENCE TO FACILITY OPERATIONS. PERFORM ALL WORK DURING NORMAL FACILITY WORKING HOURS, EXCEPT FOR THOSE TASKS REQUIRING POWER OUTAGES WHICH MUST BE DONE NIGHTS/WEEKENDS AS APPROVED BY THE COTR 7 DAYS IN ADVANCE OF SUCH OUTAGE. ALL NECESSARY CORE DRILLING MUST BE PERFORMED BY THE CONTRACTOR AND MUST BE SCHEDULED AND APPROVED BY THE COTR 48 HOURS IN ADVANCE. THE CONTRACTOR SHALL NOT INTERFERE WITH BUILDING OPERATIONS. THE HOSPITAL IS OCCUPIED AND OPERATIONAL 24 HOURS, 7 DAYS PER WEEK.

17. THE CONTRACTOR SHALL MAINTAIN ALL MEANS OF EGRESS FROM THE WORKPLACE FREE OF OBSTRUCTIONS OR IMPEDIMENTS TO TRAVEL, SO THAT PERSONNEL WILL HAVE IMMEDIATE AND UNINHIBITED PASSAGE FROM OR THROUGH THE WORKPLACE IN THE EVENT OF A FIRE OR OTHER EMERGENCY. THE CONTRACTOR WILL AT ALL TIMES PREVENT ANY MATERIALS OR DEBRIS FROM BLOCKING ACCESS TO EXITS AND PASSAGEWAYS TO EXITS. CONSTRUCTION MATERIALS SHALL BE SECURLY STORED, WITH DEBRIS REMOVED AT THE END OF EACH WORK DAY.

18. THE CONTRACTOR SHALL PATCH AND SEAL ALL OPENINGS IN WALLS, FLOORS OR CEILINGS WITH UL OR FM APPROVED FIRE RESISTIVE MATERIALS, AS FURTHER DESCRIBED IN SPECIFICATIONS AND DRAWING DETAILS. THE RATING OF THE FIRESTOPPING MUST AT LEAST EQUAL THE RATING OF THE EXISTING BARRIER (SMOKE TIGHT, 1-HOUR FIRE RATED, 2-HOUR FIRE RATED, ETC.) OPENINGS IN FLOORS MUST BE SEALED AT THE END OF EACH WORK DAY WITH TEMPORARY "FIRE STOPS" OR "FIRE PLUGS" UNTIL THE PERMANENT FIRE STOPPING MATERIALS ARE APPLIED.

19. THE CONTRACTOR MUST NOT WORK ON ANY ENERGIZED EQUIPMENT ON THIS PROJECT UNLESS APPROVED BY THE COTR. ALL CONTRACTOR PERSONNEL MUST UTILIZE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) FOR WORKING CONDITIONS ENCOUNTERED.

20. THE CONTRACTOR MAY ONLY WORK ON ONE FLOOR OF THE HOSPITAL AT A TIME, UNLESS OTHERWISE APPROVED BY THE COTR.

21. ALL ELECTRICAL EQUIPMENT THAT IS SHUT DOWN FOR REPLACEMENT OR MODIFICATION SHALL BE LOCKED-OUT AND TAGGED-OUT. THE CONTRACTOR SHALL SUBMIT A LOCK-OUT / TAG-OUT PLAN TO THE COTR FOR APPROVAL PRIOR TO STARTING WORK, WHICH SHALL BE COORDINATED WITH THE FACILITY ELECTRICAL SHOP.

22. THE CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION BARRIERS AS REQUIRED AND AS DIRECTED TO PREVENT DUST IN CONSTRUCTION AREAS FROM ENTERING THE OCCUPIED AREAS.

23. CONTRADICTORY OR MISSING INFORMATION ON THESE DRAWINGS, SUCH AS WIRE SIZES, CIRCUIT BREAKER AMPS OR NUMBER OF POLES, ETC., WHICH ARE FOUND TO BE DIFFERENT FROM ACTUAL FIELD CONDITIONS OBSERVED WHILE PERFORMING WORK UNDER THIS CONTRACT, SHALL BE CAREFULLY MARKED ON THE AS-BUILT DRAWINGS.

PROJECT NOTES:

1. ALL SMOKE DETECTORS ARE EXISTING, TO BE RELOCATED AND REINSTALLED AS SHOWN. SEE ARCHITECTURAL REFLECTED CEILING PLAN, DWG. AR-102, FOR COMPARISON OF EXISTING AND PROPOSED LOCATIONS.

2. ALL WALL MOUNTED RECEPTACLES ARE EXISTING TO REMAIN. PROVIDE OUTLET BOX EXTENSION RINGS TO MATCH WALL THICKNESS BEING INCREASED BY NEW WALL FINISHES. PROVIDE NEW BRUSHED STAINLESS STEEL DEVICE PLATE FOR ALL RECEPTACLES.

3. ALL CEILING MOUNTED SPEAKERS AND WIFI ANTENNAS TO BE REMOVED AND REINSTALLED, EXTEND WIRING AS REQUIRED.

4. DOWN LIGHT FIXTURES IN AREA SHOWN ARE EXISTING TO REMAIN. MAINTAIN CONTINUITY OF BRANCH CIRCUIT WIRING.

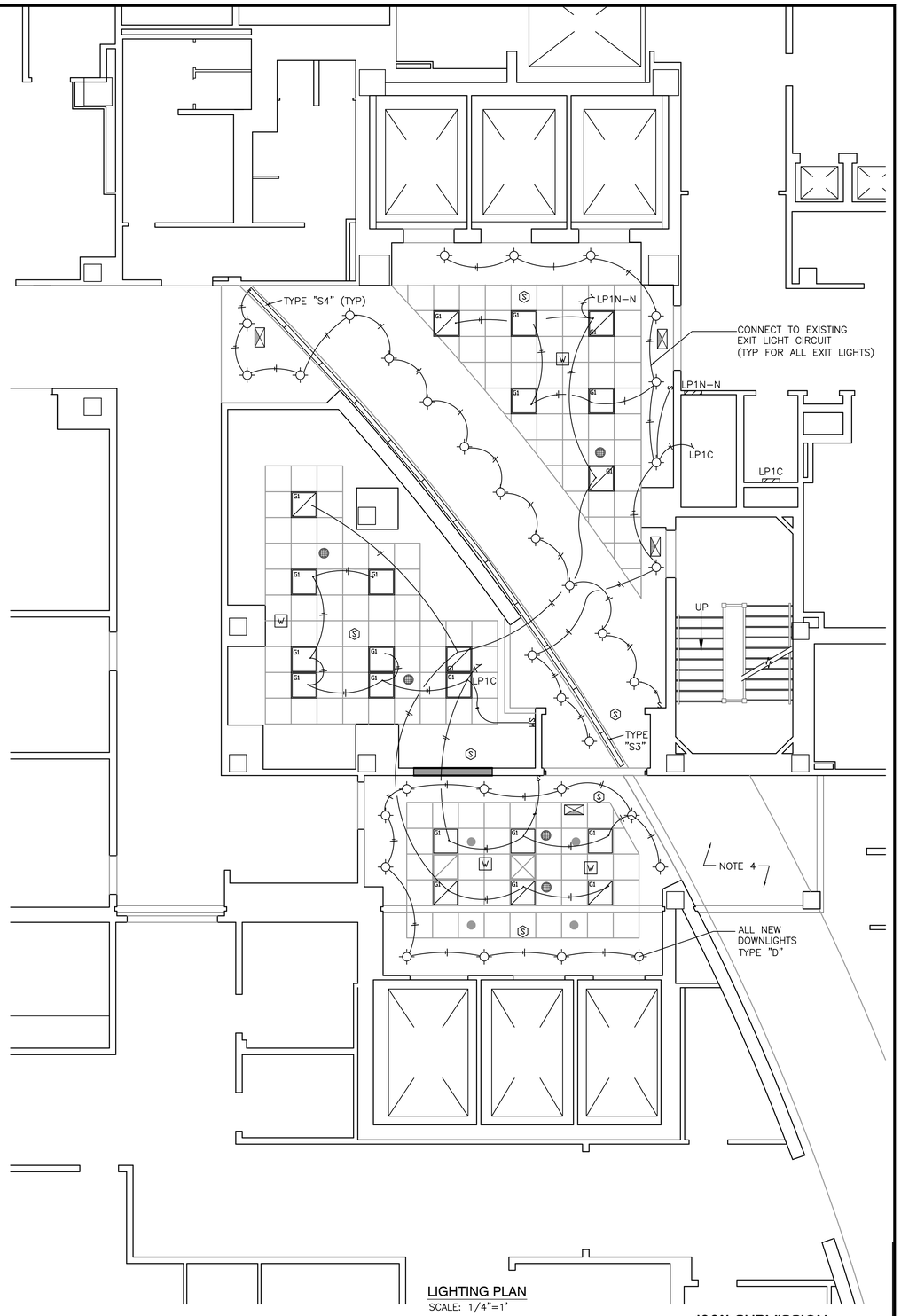
5. PROVIDE IP20A CIRCUIT BREAKERS IN EXISTING PANELS FOR ALL NEW BRANCH CIRCUITS SHOWN. ASSIGN CIRCUIT NUMBERS IN FIELD AND UPDATE PANEL DIRECTIONS.

ABBREVIATIONS

A, AMP	AMPERE
AC	ALTERNATING CURRENT
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
APPROX	APPROXIMATELY
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
BLDG	BUILDING
C, CDT	CONDUIT
CAT	CATALOG
CKT BKR	CIRCUIT BREAKER
CKT(S)	CIRCUIT(S)
COTR	VA CONTRACTING OFFICERS TECHNICAL REPRESENTATIVE
CRI	COLOR RENDERING INDEX
DISC	DISCONNECT
DWG(S)	DRAWING(S)
ELECT	ELECTRIC, ELECTRICAL
EM, EMERG	EMERGENCY
EQUIP	EQUIPMENT
E, EX, EXIST	EXISTING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FDR	FEEDER
FIXT	FIXTURE
G, GND, GRD	GROUND
G.F.	GOVERNMENT FURNISHED
GFI	GROUND FAULT CIRCUIT INTERRUPT
GOVT.	GOVERNMENT
HP	HORSEPOWER
HTR	HEATER
J.BOX	JUNCTION BOX
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING
MAX	MAXIMUM
MECH	MECHANICAL
MER	MECHANICAL EQUIPMENT ROOM
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
N, NEUT	NEUTRAL
N/C	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
N/O	NORMALLY OPEN
PNL	PANEL
PWR	POWER
RECEPT	RECEPTACLE
REF	REFERENCE
REQD	REQUIRED
RGS	RIGID GALVANIZED STEEL
SP	SINGLE POLE
SPEC	SPECIFICATION
SPST	SINGLE POLE SINGLE THROW
SW	SWITCH
SYM	SYMMETRICAL
SYS	SYSTEM
SUPT	SUPPORT
TEL	TELEPHONE
TEMP	TEMPERATURE
THD	TOTAL HARMONIC DISTORTION
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VAC	VOLTS ALTERNATING CURRENT
W	WATT
WP	WEATHER PROOF
W/	WITH

LEGEND

- STANDARD 120V. DUPLEX ELECTRICAL RECEPTACLE, EXISTING TO REMAIN UNLESS OTHERWISE NOTED. PROVIDE BRUSHED STAINLESS STEEL COVERS.
- TELEPHONE JACK (NOT IN CONTRACT)
- (S) CEILING MOUNTED SMOKE DETECTOR, EXISTING TO BE RELOCATED/REINSTALLED
- CEILING MOUNTED EXIT LIGHT, SINGLE FACE AND DIRECTIONAL ARROW AS SHOWN
- RECESSED FLUORESCENT DOWN LIGHTING
- 2X2 RECESSED FLUORESCENT LIGHTING
- OPEN LAMP FLUORESCENT STRIP LIGHT
- PANEL BOARD, EXISTING 120/208V. UNLESS OTHERWISE NOTED
- 2x2 RECESSED FLUORESCENT LIGHTING W/ EMERGENCY BALLAST
- (W) EXISTING WIFI ANTENNA, REMOVE AND REINSTALL
- EXISTING CEILING MOUNTED SPEAKER, REMOVE AND REINSTALL
- (F) EXISTING FIRE ALARM PULL STATION
- EXISTING FIRE ALARM STROBE
- S EXISTING LIGHT SWITCH TO BE REPLACED WITH NEW
- SM LIGHT SWITCH W/MOTION SENSOR W/ MANUAL OVERRIDE



LIGHTING PLAN
SCALE: 1/4"=1'

LIGHTING FIXTURE SCHEDULE

MARK	SYMBOL	DESCRIPTION	DIFFUSER	VOLTAGE	LAMPS WATTS	LAMPS TYPE	MOUNTING	MANUFACTURER AND CATALOG NUMBER	REMARKS
G1	2'	2'x2' FLUORESCENT GRID TROFFER	ACRYLIC PRISMATIC	120	32	FL32T8 4100K	RECESSED GRID	METALUX #2GC8-1U6T8-120V-ER8	SINGLE 2 LAMP, PROGRAM RAPID START ELECTRONIC BALLAST
S4	4'	4' OPEN STAGGERED FLUORESCENT STRIP	NONE	120	32	F32T8 4100K	SURFACE	METALUX #SNL-232-120V-ER8	SINGLE 2 LAMP, PROGRAM RAPID START ELECTRONIC BALLAST
S3	3'	3' OPEN STAGGERED FLUORESCENT STRIP	NONE	120	25	F25T8 4100K	SURFACE	METALUX #SNL-225-120V-ER8	SINGLE 2 LAMP, PROGRAM RAPID START ELECTRONIC BALLAST
D	D	6" WIDE BEAM DOWNLIGHT	NONE	120	32	CFTR32 4100K	RECESSED	PORTFOLIO #C6132-E32-6151-LI	ELECTRONIC RAPID START BALLAST

Revisions	Date

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Drawing Title: ELECTRICAL LIGHTING PLAN AND NOTES

Project Title: VAMC WILMINGTON, DE RENOVATE CLINICAL ADDITION and 1st FLOOR ELEVATOR LOBBIES

Approved:

Approved:

Building Number: 01 | Checked: TK | Drawn: CW

Location: WILMINGTON, DE

Date: 31 MARCH 2011

Project No.: 460-10-010

Drawing No.: EL-101 Dwg. 11 of 14

100% SUBMISSION

WILMINGTON VAMC

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

P:\20 VAMC\21 WILMINGTON AE (DO)\21-10-07 RENOVATE 1ST FL CLINIC ADD ELEV\100% SUBMISSION -FINAL\100% FINAL DWG\010-11-EL-101 ELECT PLANS 7/18/2011 1:06 PM CHRISTINE WILSON