

1 Floor Plan - Power & Communications  
1/4" = 1'0"

**TELEPHONE & DATA:**  
 TELEPHONE AND DATA WIRING SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING:  
 EACH LOCATION SHOWN SHALL BE WIRED WITH 2-DATA CABLES AND 1-VOICE CABLE PER VA STANDARD.

- CABLE DESCRIPTION FOR STATION CABLES:
  - ALL CABLES WILL BE UNSHEATHED TWISTED 4-PAIR, RATED CAT-5e OR BETTER.
  - DATA CABLE SHEATH SHALL BE "DARK BLUE" IN COLOR.
  - VOICE CABLE SHEATH SHALL BE "GRAY" IN COLOR.
  - ALL CABLES MUST BE ONE CONTINUOUS RUN BETWEEN WORK STATION AND COMMUNICATIONS CLOSET - NO SPLICES.
- TERMINATING CABLE - IN COMMUNICATION ROOM
  - ALL DATA CABLES WILL BE TERMINATED ONTO CAT-6 RATED PATCH PANELS (RJ-45).
  - DATA CABLES WILL BE TERMINATED USING EIA/TIA-568A WIRING CONFIGURATION.
  - DATA CABLES WILL BE TERMINATED INTO PATCH PANELS MOUNTED ON A STANDARD 19" DATA RACK.
  - ALL VOICE CABLES WILL BE TERMINATED ONTO 110 WALL MOUNTED BLOCKS. CABLES NUMBERING WILL CONTINUE FROM THE EXISTING CABLES ALREADY IN PLACE.
- TERMINATING CABLE - AT WORK STATION
  - ALL DATA CABLES WILL BE TERMINATED ON CAT-6 RATED RJ-45 JACK INSERTS, USING EIA/TIA-568A WIRING CONFIGURATION.
  - ALL DATA JACK INSERTS WILL BE BLACK IN COLOR.
  - ALL VOICE CABLES WILL BE TERMINATED ONTO RJ-11 JACK INSERTS USING STANDARD USDC WIRING CONFIGURATION.
  - ALL VOICE JACK INSERTS WILL BE OFFICE WHITE IN COLOR.
- CABLE MANAGEMENT
  - ALL CABLES WILL BE HOME RUN FROM EACH WORK-STATION AREA TO THE DESIGNATED COMMUNICATIONS ROOM.
  - ALL CABLES WILL BE SUSPENDED IN CEILING USING J-TYPE HOOKS OR PLACED IN CABLE TRAYS.
  - IN OFFICE AREAS ALL CABLES WILL BE INSTALLED INSIDE WALLS AND NOT VISIBLE ON WALL SURFACES.
  - ALL WALL PENETRATIONS MADE ABOVE CEILINGS THROUGH FIRE RATED WALLS MUST BE SEALED WITH FIRE RATED MATERIALS. IF EXISTING CONDUITS ARE USED AND FIRE STOPPER MATERIAL IS REMOVED FROM CONDUITS, CONDUITS WILL BE RESEALED WITH FIRE RATED MATERIALS ONCE CABLES ARE INSTALLED.
  - CABLES IN COMMUNICATION ROOMS WILL BE NEATLY RUN INTO RACK COMPATIBLE CABLE MANAGEMENT SYSTEMS RACEWAYS.

INSTALL DATA/TELEPHONE CABLES IN 1' ENT FROM EACH WALL BOX TO CABLE TRAY.

Rev	Explanation & Initials	Date

Professional Seal

Drawing Title  
**Electrical Plan - Power Wiring**

Approved: \_\_\_\_\_

Approved: \_\_\_\_\_

Project Title  
**Building 302B Renovations**

Building Number  
**302B**

Location  
**VAMC, MARTINSBURG WV**

Checked  
**-**

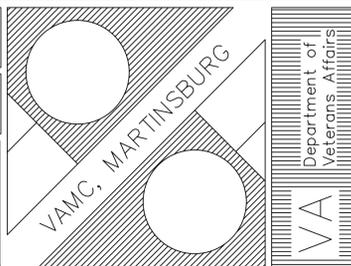
Drawn  
**SP**

Date  
**06/13/2011**

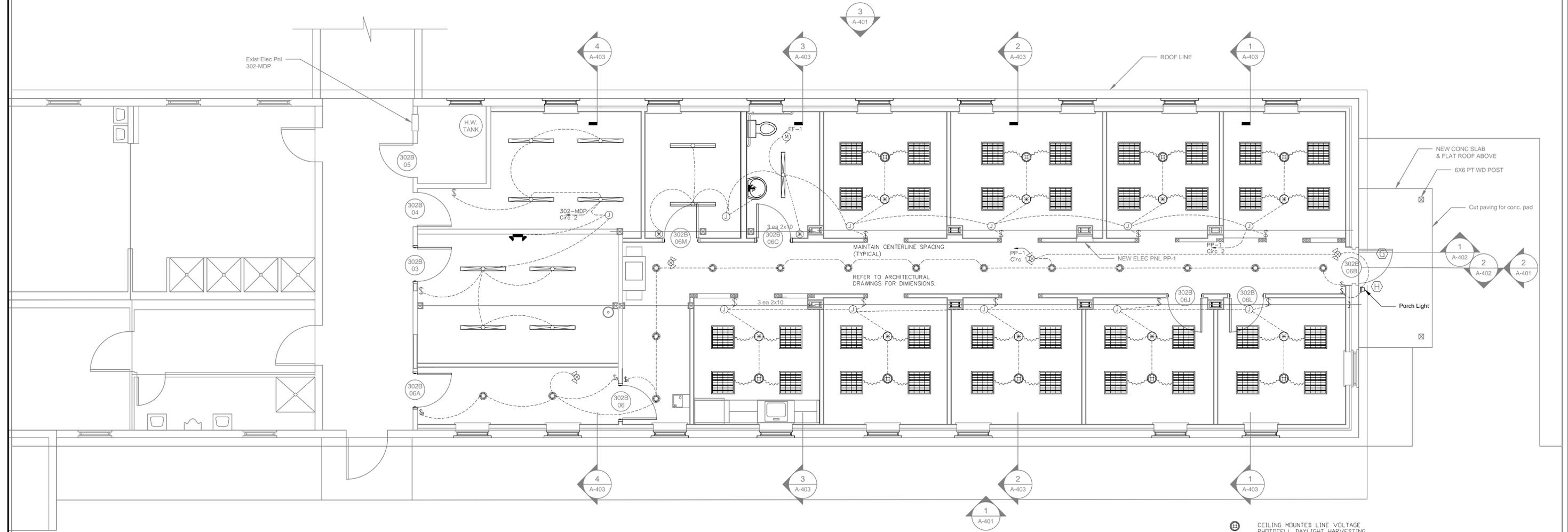
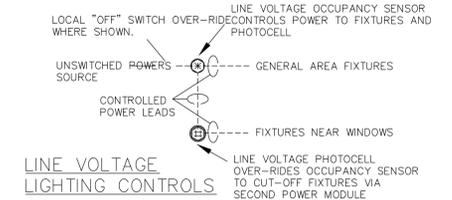
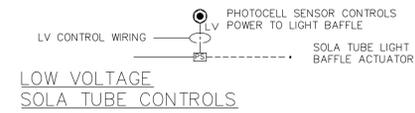
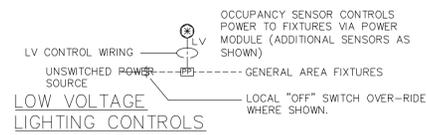
Project No.  
**613-11-143**

**E 101**

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**1** Lighting Plan  
1/4" = 1' 0"

MC FIXTURE WHIP  
- - - - - LINE VOLTAGE WIRING FOR SWITCHED FIXTURES.  
- - - - - LINE VOLTAGE UNSWITCHED WIRING  
- - - - - LOW VOLTAGE CONTROL WIRING

**A** RECESSED PARABOLIC 2X2 FLUORESCENT FIXTURE (4) 17W T8 LAMPS LITHONIA 2PM2 G B 4 17 16L 120 GEB OR SIMILAR

SOLAR LIGHT TUBE DIFFUSER, MOTORIZED LIGHT BAFFLE CONTROL CONNECTION. REFER TO ARCH PLANS.

**B** PENDANT DIRECT/INDIRECT FLUORESCENT FIXTURE, 4' WITH (2) 32W T8 LAMPS, FOCAL POINT LIGHTING VERVE III DR SIMILAR

**C** PENDANT CHANNEL STRIP FLUORESCENT WITH WIRE GUARD, (2) 4' T8 LAMPS PER SECTION. LITHONIA C 2 32 120 GEB DR SIMILAR

**D** LED RECESSED CAN LIGHT, LAMP: CREE E26, 10.5W, 2700K, 550+ LUMENS WITH COMPATIBLE HOUSING DR SIMILAR.

**E** COMBINATION LED EXIT/EMERGENCY LIGHT

**F** WALL MOUNTED EMERGENCY LIGHT

**G** EXTERIOR RECESSED LENSED PORCH LIGHT WITH EMERGENCY BATTERY FEATURE LITHONIA LFBN 2/26 F8L4 DR SIMILAR

**H** EXTERIOR WALL-MOUNTED LENSED PORCH LIGHT WITH EMERGENCY BATTERY FEATURE

**⊕** CEILING MOUNTED LINE VOLTAGE PHOTOCELL DAYLIGHT HARVESTING RELAY

**⊗** CEILING MOUNTED LINE VOLTAGE OCCUPANCY SENSOR

**⊗ LV** CEILING MOUNTED LOW VOLTAGE OCCUPANCY SENSOR

**⊙** LOW VOLTAGE PHOTOCELL FOR SOLA TUBE LIGHT BAFFLE CONTROL

**PP** RECESSED ABOVE CEILING POWER PACK CONTROLLED BY LOW VOLTAGE OCCUPANCY SENSORS, LINE VOLTAGE CONTROL OF FIXTURES.

**PS** RECESSED ABOVE CEILING POWER PACK CONTROLLED BY LOW VOLTAGE PHOTOCELL SENSORS, LOW VOLTAGE CONTROL OF SOLA TUBE LIGHT BAFFLE

OCCUPANCY SENSORS SHALL BE DUAL TECHNOLOGY, MICROPHONICS TECHNOLOGY NOT ACCEPTABLE.

**⊕** BRANCH CIRCUIT WIRING JUNCTION BOX

**⊗** WALL MOUNTED OCCUPANCY SENSOR SWITCH

**⊕** WALL MOUNTED SYSTEM CUT-OFF SWITCH.

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**VAMC, MARTINSBURG WV**

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**E 103**

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