



**DEPARTMENT OF VETERANS AFFAIRS**  
**Medical Center**  
**1700 South Lincoln Avenue**  
**Lebanon, PA 17042**

**Renovate Oncology**

Project Number: 595-10-107

**75% Design Review Comments**

Specifications:

1. Division 26 Add or ensure the following is included in spec:
  - a. All wire to be stranded conductor unless it is equipment grounding conductor of #10 and smaller.
  - b. No more than 3 branch circuits per conduit.
  - c. #10 Wire on lengths greater than 100' and no more than 150' for a 20 amp branch circuit.
  - d. Minimum size conduit is  $\frac{3}{4}$ "
  - e. Electrical enclosures must be supported individually
  - f. All exterior Metallic hardware and equipment must be corrosive resistant.
  - g. NFPA 70, 70E, 72, 99, 101, and 13 must comply.
  - h. Conduits must be supported within 3' of every Junction Box and/or enclosure and every 12" of any degree of turn.
  - i. Metallic Warning Tape must be within 6" of top of finish grade.
  - j. Direct buried cable or conduit or other raceways shall be installed as required of Table 300-5 of the National Electric Code or 18", whichever is greater.
  - k. Backfill containing large rock, paving materials, cinders, large or sharply angular substance, or corrosive material shall not be placed in an excavation where materials may damage raceways, cables, or other substructures or prevent adequate compaction of fill or contribute to corrosion of raceways, cables, or other substructures.
  - l. Conduits or raceways through which moisture may contact energized live parts shall be sealed or plugged at either or both ends.
  - m. Light standards must be rubbed so there is no indication of "spiral marks" in the concrete. They must have a 45 degree chamfered edge. Grounding conductor at each light pole to be in a separate conduit.
  - n. Exterior light poles must contain individual inline fuses at the handhole. Molded inline fuses capable of more than one phase conductor are not acceptable.
  - o. Compression Fittings must be used and wrench tight.
  - p. Conduits must be labeled with circuit identification at points where they enter junction box and/or enclosure.
  - q. Workmanship as per code will be enforced up to VA Electrical Supervisor expectations.

- r. All three phases motors used on the 208 volt system must be rated at 200 volt specific motors.
- s. All receptacles within 6' of a wet location will be GFCI protected unless a specific piece of equipment is being installed, then a single receptacle for the equipment will be installed.
- t. EVERYTHING that controls, consumes, or is capable of consuming electric will have a label. Label must have circuit identification, panel it is fed from, and where the panel is located.
- u. Receptacles will be installed with ground down.
- v. Neutral Conductor must be identified with corresponding Phase conductor in all junction boxes and/or enclosures. Do not share neutral conductor.
- w. MC Cable must not be used to connect devices horizontally through the wall, separate drops from the ceiling is acceptable to devices in the wall.
- x. Raceway and Cable supports must be UL listed to support raceways
- y. Phase Colors as follows: (Black, red, and blue for 120/208 volts and brown, orange, and yellow for 277/408 volts.) Neutral conductors shall be white in color for 120/208 volts and grey in color for 277/480 volts.
- z. Panel schedules shall be installed in new panels identifying all circuit breakers and also include the identification of existing circuits. Panel schedules must be installed within two weeks of job completion. A copy of all panel schedules will be issued to the Electric Shop.
- aa. Wirenuts and splices are not allowed in any electrical panel.
- 2. 28 13 00, Section needs to be included and needs to specify Siemens Access Control Systems.
- 3. 28 31 00 2.2.A References 28 05 28.33 which is not included in specifications. Add specification. Note that ALL conduit for fire alarm shall be red. Include this note on plans as well.
- 4. 28 31 00, Section refers to Wing B, change to Wing A and Wing C
- 5. General Comments:
  - a. Include provisions for the use of Urethane Grout
  - b. Locate Signs on drawings, include a sign schedule, include details
  - c. Include provision stating that no power actuated fasteners may be used
  - d. Replace "COTR" with COR throughout

#### Drawings:

- 1. GI002 – Details show wall mounted water closets and architectural elevations show floor mounted. Correct to match.
- 2. A101
  - a. The area of CHEMO 2, 3, 4 and ALCOVE needs to be reworked. Beds in this area cannot be seen by nurse at work station. CHEMO 9 and 16 should be made into individual rooms for beds rather than chairs and shall have glass doors.
  - b. Workroom 213 in branch corridor to corner of building (216).
  - c. Move patient toilets (219A and B) towards main corridor.
  - d. Move double door in main corridor between 222 and 223 towards waiting area. "Off stage" area includes everything except the female locker room.

3. A504 – Sign shown on plans is not accurate. Replace with sign approved by interior designer (to be provided).
4. A1202a – M1801 PC should be VA purchase VA install
5. 001.PL101 – Unsure how plumbing will work coming from below infill area. Underside of area will need to be insulated to prevent freezing in pipes.
6. P501 – Detail B3 is incorrect. Floor drain cannot have weep holes nor will this detail work. No mortar bed is possible. Detail B5, how will sloped floor be accomplished? Will either need to build up floor or remove material.
7. 001.MH102 – Sterile storage (clean utility) shall have its own VAV and thermostat. Move thermostat in family room (202) near doorway.
8. M502 – Detail 5, Cannot use steam from utility plant.
9. M503 – Detail 1, Heat exchanger not located. Include plan showing location.
10. General Comments:
  - a. Include communication device(s) for nurse work stations to communicate between each
  - b. Include white noise system in office pod area (227,232) and open conference room area (233)
  - c. Include a construction phasing plan that includes temp walls and/or barriers.