

Scope of Work (SOW)

EHRM Infrastructure Upgrades Construction – Hot Springs, SD

*The purpose of this SOW is to provide additional information to what is in the Drawings and Specifications. The Specs and Drawings Supersede this SOW.

The Hot Springs VAMC is seeking a general contractor to furnish all labor, tools, material, equipment, and supervision for a near-complete refresh of the data cable infrastructure. The scope of this project includes but not limited to the following infrastructure improvements:

Demolition

Applicable to each category below

Phone lines 14k-33k phone line pairs in buildings (backbone from building to building to remain in support of existing mass communications system and ancillary fax/building access phones)

Demo and remove all abandoned hardware and cables

Electrical

Panel upgrades (normal and emergency/bonding)

Emergency generator upgrade building 10

Integrate into the fire alarm system

Mechanical

Upgrades/replacement/relocate of existing HVAC

DDC HVAC

Condensate drain piping

Provide cooling loops

Renovation (piping, exterior wall, interior wall for water proofing)

Commissioning (spec 23 05 93)

Fire System

Data Center (DC) room upgrade (building 65)

Sprinkler head migration

Renovation

Expansion and renovation of existing space

Walls, doors, ESD flooring, painting,

Rack alignment, fire stopping

New building expansion (buildings 1, 11, and 66)

IT specialty, cable/data outlet

Migrating from 50 IT closets/cabinets to 29 TRs/cabinets

Data Center (DC) upgrades (building 66)

Upgrades to TR/DC rooms

Racks, sensor, UPS, zone and vertical (amp monitored) PDU's, patch panels

Separate IT equipment ground bonding per building

Cable trays/management

New data outlets

Upgrade to CAT6A cable in buildings

Upgrade campus backbone and building fiber, dual pathing

Commission of communications system (spec 27 08 00)

Physical security upgrades

TR/DC

Hazardous material abatement

- Asbestos Abatement

- Lead Paint

Campus ground vault system

- New route from building 65 to 66

- Data line demolition of abandoned infrastructure and upgrades

Phasing

- Minimize down times for hospital operations

- Minimize security and fire system down times

- Maintaining a clean area per ICRA/PCRA (HEPA cart(s) usage, living cleaning document)

- Multiple shifts proposed, "first pass draft" (spec 01 35 26)

- Contractor shall move VA furniture and similar items obstruction work in office (w/COR approval)

Other

- Material Lead Time recurring status

- Progress meetings

- Meeting minutes

- Weekly meeting with VA facilities for phasing and drawing review (up to 1 hour, drawings in hand for active areas)

- Cleaning check list (living document)

- May require remote storage for staging material

- Background investigation in support non-escort to TRs

- Registered RCDD support during construction

- Maintain/submit As-built drawings as work progresses

Project building locations include buildings 1,2,3,4,5,6,7,8,11,12, 13,14,17,18,20,23,29,43,65, and 66 (likely some runs to other buildings). Technical complexity is high for this project due to migrating 90% of the telecommunication rooms (TRs) while leaving facilities infrastructure (building management equipment etc.) in the old closets, demoing out 14k-33k abandoned phone line pairs in buildings while not impacting the mass communications system that sits on the existing phone network system, re-integration with the air gapped security campus system, reintegration with the fire safety campus system. Completion of all these tasks will be difficult due to phasing needs for all areas and departments. A "first pass construction hours matrix" has been developed in the specifications 01 35 26 to assist with phasing/ICRA risks.

Long Lead Items: High risk lead times shall be elevated to contracting/COR as early as possible (preferably prior to NTP) with recurring communications.

IT Support: Support from local IT will be "extremely limited," hence the requirement for a registered RCDD on site during construction to minimize hospital operational down time risks. Since local OIT will not have any individuals to watch the TR rooms during construction, the contractor must have several applicants complete a contractor background investigation in support of no VA OIT Escort when visiting TR's. If the old or new TR door is open with active switches the room/closet must be monitored by an approved individual, hence phasing of this project is critical with the majority of the TRs being relocated. Coordination will be needed to allow the VA time to program and complete connections to patch panels.

Government Furnished Equipment: The VA will provide a minimal count of switches to assist with the phasing.

Winter Conditions: Contractor shall include labor, tools, material, heat, power, equipment, supervision in the scenario concrete work needs to be completed in winter conditions.

The contractor shall be responsible to move/relocate any furniture, equipment, boxes, files, user belongings, etc. That would be in an area of work and obstruction/interfere with the performance of the contractor's work, and with COR approval. The VA does not have staff to support this effort.

The contractor shall be responsible for moving heavier equipment on campus to complete construction. It is highly suggested the contractor procure/allocate the below items or similar to complete these types of moves. Additional equipment will likely be needed for removal of the existing generator, etc:

- Two (2) Johnson Bars capable of 5,000 lbs each with poly-on-steel wheels (to protect flooring)
 - https://www.amazon.com/Vestil-PLB-S-5-Prylever-Capacity/dp/B0027YIPAO/ref=sr_1_4?keywords=johnson+bar&qid=1647023075&sr=8-4
- Four (4) men
- Eight (8) heavy duty machine dolly skates, 3,300 lbs each poly-on-steel
 - https://www.amazon.com/dp/B08VRPW48J/ref=sspa_dk_detail_2?psc=1&pd_rd_i=B08VRPW48J&pd_rd_w=TLVzQ&pf_rd_p=0c758152-61cd-452f-97a6-17f070f654b8&pd_rd_wg=X9Ajt&pf_rd_r=X9HNXYMHNBWARJD0ZR6P&pd_rd_r=7827462b-b1ff-4f05-a264-e4f58fee8cc4&s=industrial&spLa=ZW5jcmlwdGVkUXVhbGlmaWVyPUEyU1BUUk82M1QzQU1WJmVuY3J5cHRlZEIkPUEwNjQxNDUyM1RSM1RFRUpIRFVGViZlbnNyeXB0ZWRBZEIkPUEwMDczOTg5M0NKWUFSTExENU9JNSZ3aWRnZXROYW1lPXNwX2RldGFpbCZhY3Rpb249Y2xpY2tSZWRpcmVjdCZkb05vdExvZ0NsaWNrPXRydWU=

The sensitivity of information relating to this project is emphasized. All the information and documentation divulged in the course of this construction effort shall be treated as For Official Use Only. This information is not to be distributed without a confirmed need to know as confirmed by the VA.

Contractor trades include general construction, concrete, plumbing, HVAC, communications, electrical, earthwork, fire suppression, exterior improvements, and a registered RCDD.

Period of performance: The period of performance is 365 calendar days from issuance of the Notices to Proceed. If a due date on the timeline below falls on a Holiday or weekend, the task shall be due the following business day. The remaining timeline will not be shifted to accommodate Holidays or Weekends.

Period of Performance: The period of performance for this project is 365 calendar days from issuance of the Notice to Proceed. Below are some recommended approaches:

1. After award, work with the COR and site to initiate background checks for required employees and bring on board the RCDD registered individual.
2. Identify the long lead items and a mitigation strategy.
3. Provide in a submittal the RCDD qualifications.
4. Establish a plan for concrete work and share with the COR after mobilization.

Attachments:

- 1 - EHRM Final Drawings Volume 1A - 2022-05-12
- 2 - EHRM Final Drawings Volume 1B - 2022-05-12
- 3 - EHRM Final Drawings Volume 2 - 2022-05-12
- 4 - EHRM Final Drawings Volume 3 - 2022-05-12
- 5 - EHRM Final Drawings Volume 4 - 2022-05-12
- 6 - Specifications Volume 1 - Rev100% - 4-25-22
- 7 - Specifications Volume 2 - Rev100% - 4-25-22
- 8 - Specifications Volume 3 - Rev100% - 4-25-22
- 9 - PCRA ICRA Risk Assessment v2
- 10 - Old-New TR Telecommunication Rooms (Treat as a 10,000-foot overview, a guidance document. See Basis of Design (BOD) TR table and the networking drawing volume for details.)
- 11 - HS Campus Ground Infrastructure (Use in support of IT equipment bonding per building, foundations, ground vault)
- 12 - HS Campus Ground Infrastructure 2 (Use in support of IT equipment bonding per building, foundations, ground vault)
- 13 - Cutsheets Small Diameter CAT6A – Final (Use as a guide for some of the brand name or equal items)