

Request for AE Services

DOC Radio System Replacement

Robert E. Ellsworth Correctional Center, Racine Youth Offender Correctional Facility,
Redgranite Correctional Institution, Stanley Correctional Institution, and
Wisconsin Secure Program Facility
Project 13H1R

AGENCY:

Department of Corrections

SITE LOCATIONS:

Robert E. Ellsworth Correctional Center
21425-A Spring Street
Union Grove, WI 53182-9408

Racine Youth Offender Correctional Facility
1501 Albert Street PO Box 2200
Racine, WI 53404-0001

Redgranite Correctional Institution
1006 County Road EE PO Box 900
Redgranite, WI 54970

Stanley Correctional Institution
100 Corrections Drive
Stanley, WI 54768-6500

Wisconsin Secure Program Facility
1101 Morrison Drive P.O.Box 1000
Boscobel, WI 53805-0900

Introduction and Background:

“This request is for Pre-Design services by an architectural/engineering firm for the DOC Radio System Replacements at Robert E. Ellsworth Correctional Center (REECC), Racine Youth Offender Correctional Facility (RYOCF), Redgranite Correctional Institution (RGCI), Stanley Correctional Institution (SCI), and Wisconsin Secure Program Facility (WSPF).

These facilities are all part of Department of Corrections’ 12-year radio infrastructure plan. This project will replace radios and equipment that are no longer supported by the manufacturer with new digital radio equipment. This plan includes rolling down equipment removed from these sites to other sites that are still using the older systems, allowing them to function until we can upgrade their system as well. This roll-down plan is one element of the larger master plan. This project will replace equipment, assess the

infrastructure and replace those portions that need to be upgraded, up to and including antennae.

Project Scope:

This project will replace the analog radio systems in use by DOC at Robert E. Ellsworth Correctional Center, Racine Youth Offender Correctional Facility, Redgranite Correctional Institution, Stanley Correctional Institution, and Wisconsin Secure Program Facility with new P25 digital radio systems. This includes head end equipment, radios, tower and extending repeaters into areas that have not been able to receive signal previously.

The project includes the following Design, Bid and Construction Phase services:

Design Phase Services

- Develop a set of bid documents to address the Infrastructure to support the new radio equipment at REECC, RYOFC, RGCI, SCI, WSPF and include the following:
 - Evaluate Tower and related Hardware
 - Architectural Design
 - HVAC
 - Electrical
 - Communications
- Design of Radio System to be completed by Radio System Vendor under separate contract. AE will need to coordinate with Vendor for AE work. Vendor services may include:
 - Antennas and their mounting locations
 - Radio Control Consoles and their associated Software
 - Radio Equipment
 - Testing of installed Radio Equipment
 - Employee Training
- Produce a design report to identify the cost of 1) implementing the new system at all three locations, 2) needed infrastructure improvements, and 3) moving the old system to other DOC sites for continued usage. Develop a written plan to salvage and move the existing radio equipment at REECC, RYOFC, RGCI, SCI, and WSPF to other DOC sites for continued usage.

Bid Phase Services

- Preparation of infrastructure bidding documents based upon Design Report
- Normal coordination during bidding (clarification, addendum, etc.)
- Pre-bid conference (meeting) with contractors
- Bid review and recommendations

Construction Phase Services

- Pre-construction meeting
- Shop drawing reviews

- Normal construction coordination (interpretation, clarification, etc.). Scheduled site visits to review systems installation (includes final review with written report of findings)
- Review and process requests for information (RFI's) or change orders
- Scheduled project construction meetings With written minutes
- Project close-out
- Review O & M Manuals for distribution to Owner
- Drafting of record drawings (AutoCAD format) from contractor's as-built drawings.

Proposed Schedule

Project Approval:	Feb 2014
A/E Selection:	Oct 2013
Bid Opening:	May 2014
Construction Start:	Mar 2015
Construction Completion:	Jul 2015

Proposed Budget

Construction Cost:	TBD
Contingency (10%):	TBD
A/E Design and Commissioning Fees (8%):	TBD
DSF Fees (4%):	TBD
<u>Moveable Equipment:</u>	<u>TBD</u>
Total Project:	\$4,000,000

Agency Contact:

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