

**June 1, 2022 – Bid Specifications Packet for:**

**Project #2223**

**Bond County Courthouse  
(5) Restrooms & (1) Lactation room remodel  
Bond County Public Building Commission  
Bond County Illinois  
206 W. Main St., Greenville, IL 62246**

**Owner contact:**

**Rex Catron – Public Building Commission member**

**Email: rcatron@me.com**

**Phone: 618-420-6000**

**Architect contact:**

**David Lipe**

**Lipe Architecture**

**603 School St.**

**Nokomis, IL 62075**

**Phone: 217-563-7836**

**Email: david@lipe-architecture.com**

TABLE OF CONTENTS

Document 00 03 00 Table of Contents

BIDDING REQUIREMENTS, CONTRACT FORMS, AND CONDITIONS OF THE CONTRACT

Document 00 21 00 Instructions to Bidders  
Document 00 41 00 Bid Forms  
Document 00 52 00 Agreement Forms  
Document 00 61 00 Bond Forms  
Document 00 72 00 General Conditions  
Document 00 91 00 Precontract Revisions

SPECIFICATIONS

DIVISION 01 - GENERAL REQUIREMENTS

Section 01 10 00 Summary  
Section 01 30 00 Administrative Requirements  
Section 01 40 00 Quality Requirements  
Section 01 50 00 Temporary Facilities and Controls  
Section 01 60 00 Product Requirements  
Section 01 70 00 Execution and Closeout

DIVISION 02 - SITE CONSTRUCTION

Section 02 14 19 Selective Demolition

DIVISION 09 - FINISHES

Section 09 30 00 Tiling  
Section 09 91 00 Painting

DIVISION 10 - SPECIALTIES

Section 10 21 13 Toilet Compartments  
Section 10 28 13 Toilet Accessories

DIVISION 22 - PLUMBING

Section 22 03 00 Plumbing Fixtures  
Section 22 05 00 Common Work Results For Plumbing

DIVISION 23 - HVAC

Section 23 00 00 Heating Ventilating & Air Conditioning

DIVISION 26 - ELECTRICAL

Section 26 05 00 Common Work Results for Electrical  
Section 26 51 00 Interior Lighting

END OF TABLE OF CONTENTS

Bond County Courthouse (5) Restrooms & (1) Lactation room remodel project – Bid Specifications Packet  
Bond County Public Commission – 206 W. Main St., Greenville, IL 62246

DOCUMENT 00 21 00  
INSTRUCTIONS TO BIDDERS

1. Project Name and Location:

Bond County Courthouse  
(5) Restrooms & (1) Lactation room remodel  
Bond County Public Building Commission  
Bond County Illinois  
206 W. Main St., Greenville, IL 62246

2. Bidding Documents: This document contains instructions to bidders for the project named above. This bidding document is not part of the Contract Documents, unless specifically referenced in the Owner/Contractor Agreement.

3. Bid Documents: To obtain bidding documents contact:

Attention: Rex Catron – Public Building Commission member  
Email: rcatron@me.com  
Phone: 618-420-6000

4. Deposit for Documents: A deposit is not required.

5. Submission of Bids: Submit Bid Form before the time and date below. Late submissions will not be considered. Submit bids in sealed and labeled envelopes with the project name and bidder's name on the outside of the envelope. Mark the envelope: 'Bid Enclosed - Do Not Open'.

Submit Bid To:  
Bond County Courthouse  
Bond County Public Building Commission  
Bond County Illinois  
206 W. Main St., Greenville, IL 62246

Date and Time of Day: \_\_\_\_\_

6. Bid Opening: Bids will be opened in public. Bidders may be present. Bids may not be withdrawn for 30 calendar days after receipt of bids. Announcements of bid results will be made within 14 days after receipt of bids.

7. Bid Security: A bid security is required in the amount of 5 percent of the bid amount. Bid security must be in the form of an AIA A310 bid bond, certified check, or cashier's check made payable to the Owner. Bid security will be forfeited if a bidder who has been awarded the contract fails to execute the Owner/ Contractor Agreement within 10 days of notification by Owner. Bid security for unsuccessful bidders will be returned no later than 30 days after the contract is first awarded.

8. Bonds: A Performance and Payment Bond is required. Each bidder shall submit evidence of bondability for the entire value of the work. Bonds must be executed by a surety company licensed to do business at the location of the project. Bond form shall be AIA Document A312.

9. Modifications: Oral, fax or email modifications to bids will not be considered.

Bond County Courthouse (5) Restrooms & (1) Location room remodel project – Bid Specifications Packet  
Bond County Public Commission – 206 W. Main St., Greenville, IL 62246

10. Acceptance of Bids: The Owner reserves the right to reject or accept any or all bids or to enter into negotiations with any bidder. The Owner reserves the right to waive any alleged breach of technicality.
  
11. Modifications: The Owner reserves the right to modify the Contract Documents and rebid the project, if necessary, to meet Owner's budgetary requirements.
  
12. Questions: During the bidding period, submit questions to the person named below. Questions will be answered in writing and copies distributed to bidders of record.  
  
Attention: Rex Catron – Public Building Commission member  
Email: rcatron@me.com  
Phone: 618-420-6000
  
13. Site Visit: A site visit is required. Contact the person named above to arrange to visit the site.

END OF DOCUMENT

DOCUMENT 00 41 00

BID FORMS

1. Submission of Bids: Submit bids in compliance with Document 00 21 00 - Instructions to Bidders. Fill in blanks. The Owner reserves the right to reject incomplete bid forms.
2. Bidding Documents: This Bidding document is not part of the Contract Documents, unless specifically referenced in the Owner/Contractor Agreement.

Project Name:

Bond County Courthouse  
(5) Restrooms & (1) Lactation room remodel  
Bond County Public Building Commission  
Bond County Illinois  
206 W. Main St., Greenville, IL 62246

Project Owner:

Bond County Public Building Commission  
Bond County Illinois  
206 W. Main St., Greenville, IL 62246

Name of Bidder: \_\_\_\_\_

3. Base Bid: The Bidder proposes to perform all of the Work required by the Contract Documents for the amount of: (Fill in amount in words and numbers.)  
\$ \_\_\_\_\_
4. Bonds: If the Bidder is required to furnish a Performance Bond and Payment Bond (AIA A312) for the entire value of the Work, add the following amount to the base bid amount:  
\$ \_\_\_\_\_
5. Alternates: If an Alternate is selected by the Owner, the Bidder proposes to do the Work required by the Contract Documents by increasing or decreasing the Base Bid the following amount: (Fill in amounts in words and numbers)

Alternate No. 1 (See drawing sheet A1): Provide a separate alternate bid to replace all toilet partitions with new floor mounted overhead-braced restroom partitions. Bradley phenolic privacy partitions — Series 400 – Sentinel or equal. Color as selected by owner from standard colors. New toilet partitions to match size & configuration of existing toilet partitions. Field verify all dimensions:

Increase/decrease (underline one) Base Bid by:

\$ \_\_\_\_\_

6. Time: The Bidder proposes the following dates (Fill in):

Proposed Starting Date: \_\_\_\_\_

Bond County Courthouse (5) Restrooms & (1) Location room remodel project – Bid Specifications Packet  
Bond County Public Commission – 206 W. Main St., Greenville, IL 62246

Proposed Date of Substantial Completion: \_\_\_\_\_

7. Submission of Bid Form: By submitting this Bid Form, the Bidder certifies that Bidder has visited the project site, is aware of existing conditions which affect the work, and has reviewed the Contract Documents, including the following Addenda:

(List addenda received)

8. Bid Qualifications: Submit bid qualifications and reasons for qualifications with this Bid Form at the end of the Bid Form. Include impact of bid qualifications on time, cost or quality. Bid qualifications may include: Cash flow requirements, assumptions for access to the work, assumptions for staging the work, assumptions for protecting existing and abutting work, proposed modifications to General and Supplementary Conditions, proposed modifications to drawings and specifications.

9. Signature: Signed and sealed (Enter date, Bidder's signature, title, name of firm, legal business address, phone and fax numbers, email address):

Signature: \_\_\_\_\_

Name and Title: \_\_\_\_\_

Firm: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, ZIP: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

10. Project Manager: Bidder's Project Manager To Be Assigned to the Project (name and brief summary of experience):

11. Subcontractors: Bidder's List of Proposed Major Subcontractors (list):

12. Bid Qualifications: List of Bid Qualifications by Bidder (If any):

END OF DOCUMENT

DOCUMENT 00 52 00

AGREEMENT FORMS

1. Owner-Contractor Agreement Form: AIA A107, Owner-Contractor Agreement Form - Stipulated Sum - For Construction Projects of Limited Scope.
2. Agreement Forms: Agreement forms are available from the American Institute of Architects, Washington, D.C., 202-347-9403. Agreement Forms will be prepared and approved for use on the project by the Owner in consultation with an attorney.

END OF DOCUMENT

DOCUMENT 00 61 00

BOND FORMS

1. Bid Bond: AIA A310, Bid Bond.
2. Performance Bond and Payment Bond: AIA A312, Performance Bond and Payment Bond.
3. Bond Forms: Bond forms are available from the American Institute of Architects, Washington, D.C., 202-347-9403. Bond Forms will be prepared and approved for use on the project by the Owner in consultation with an attorney.

END OF DOCUMENT



DOCUMENT 00 72 00

GENERAL CONDITIONS

1. General Conditions: AIA A201, General Conditions of the Contract for Construction.
2. General Conditions Forms: General Conditions are available from the American Institute of Architects, Washington, D.C., 202-347-9403. General Conditions will be prepared and approved for use on the project by the Owner in consultation with an attorney.

END OF DOCUMENT

DOCUMENT 00 91 00

PRECONTRACT REVISIONS

1. Date: [Date of Issue of Addenda]
  
2. Re: Addendum No.
  
3. Project: \_\_\_\_\_  
\_\_\_\_\_, \_\_\_\_\_
  
4. Issued: [Date on Drawings]
  
5. To: [Bidder]  
[Address]  
[City, State, Zip]
  
6. From: \_\_\_\_\_
  
7. This Addendum forms part of and modifies Bidding and Contract Documents for the project named above. Acknowledge receipt of this Addendum on the Bid Form.
  
8. Where any original item called for in the Project Manual or indicated on the Drawings is supplemented by this addendum, the supplemental requirements shall supersede the previous item.
  
9. Where any original item is amended, voided, or superseded hereby, the other provisions of such items not specifically amended, voided, or superseded shall remain in effect.
  
10. This addendum consists of this document and the following attachments:  
[List specifications, drawings and sketches issued with this addendum.]

END OF DOCUMENT

SECTION 01 10 00  
SUMMARY

PART 1 GENERAL

1.1 SUMMARY

A. Project Identification:

Bond County Courthouse  
(5) Restrooms & (1) Lactation room remodel  
Bond County Public Building Commission  
Bond County Illinois  
206 W. Main St., Greenville, IL 62246

B. Project Summary:

Update (5) restrooms & (1) lactation room in the Bond County Courthouse. Work scope items include the following:

- Update floor & wall finishes.
- Replace all plumbing fixtures including toilets, urinals, sinks & faucets.
- Address HVAC issues in each room which include adding heat & exhaust fans.
- Address plumbing issues that may include lack of water flow and water heat at plumbing fixtures.
- Add wall mounted baby changing stations where needed.
- Add wall cabinets, counter and replace water heater in lactation room.

C. Permits and Fees: Apply for, obtain, and pay for permits, fees required to perform the work.

D. Codes: Comply with applicable codes and regulations of authorities having jurisdiction.

E. Dimensions: Verify dimensions indicated on drawings with field dimensions before fabrication or ordering of materials. Do not scale drawings.

F. Existing Conditions: Notify Architect of existing conditions differing from those indicated on the drawings. Do not remove or alter structural components without prior written approval.

G. Coordination:

1. Coordinate the work of all trades.
2. Prepare coordination drawings for areas above ceilings where close tolerances are required between building elements and mechanical and electrical work.
3. Verify location of utilities and existing conditions.

H. Installation Requirements, General:

1. Inspect substrates and report unsatisfactory conditions in writing.
2. Do not proceed until unsatisfactory conditions have been corrected.
3. Take field measurements prior to fabrication where practical. Form to required shapes and sizes with true edges, lines and angles. Provide inserts and templates as needed for work of other trades.
4. Install materials in exact accordance with manufacturer's instructions and approved submittals.
5. Install materials in proper relation with adjacent construction and with proper appearance.
6. Restore units damaged during installation. Replace units which cannot be restored at no additional expense to the Owner.
7. Refer to additional installation requirements and tolerances specified under individual specification sections.

I. Limit of Use: Limit use of work as indicated. Keep driveways and entrances clear.

Bond County Courthouse (5) Restrooms & (1) Location room remodel project – Bid Specifications Packet  
Bond County Public Commission – 206 W. Main St., Greenville, IL 62246

- J. Existing Construction: Maintain existing building in a weathertight condition. Repair damage caused by construction operations. Protect building and its occupants.
- K. Definitions:
  - 1. Provide: Furnish and install, complete with all necessary accessories, ready for intended use. Pay for all related costs.
  - 2. Approved: Acceptance of item submitted for approval. Not a limitation or release for compliance with the Contract Documents or regulatory requirements. Refer to limitations of 'Approved' in General and Supplementary Conditions.
  - 3. Match Existing: Match existing as acceptable to the Owner.
- L. Intent: Drawings and specifications are intended to provide the basis for proper completion of the work suitable for the intended use of the Owner. Anything not expressly set forth but which is reasonable implied or necessary for proper performance of the project shall be included.
- M. Writing Style: Specifications are written in the imperative mode. Except where specifically intended otherwise, the subject of all imperative statements is the Contractor. For example, 'Provide tile' means 'Contractor shall provide tile.'

PART 2 PRODUCTS - Not Applicable To This Section

PART 3 EXECUTION - Not Applicable To This Section

END OF SECTION

SECTION 01 30 00  
ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL

1.1 SUMMARY

- A. Administration of Contract: Provide administrative requirements for the proper coordination and completion of work including the following:
  - 1. Supervisory personnel.
  - 2. Preconstruction conference.
  - 3. Project meetings, minimum of one per month; prepare and distribute minutes.
- B. Work Schedule: Submit progress schedule, updated monthly.
- C. Submittal Schedule: Prepare submittal schedule; coordinate with progress schedule.
- D. Schedule of Values: Submit schedule of values.
- E. Emergency Contacts: Submit and post a list of emergency telephone numbers and address for individuals to be contacted in case of emergency.
- F. Record Documents: Submit record drawings and specifications; to be maintained and annotated by Contractor as work progresses.

1.2 SUBMITTALS

- A. Types of Submittals: Provide types of submittals listed in individual sections and number of copies required below.
  - 1. Shop drawings, reviewed and annotated by the Contractor - 2 copies.
  - 2. Product data - 2 copies.
  - 3. Samples - 2, plus extra samples as required to indicate range of color, finish, and texture to be expected.
  - 4. Inspection and test reports - 2 copies.
  - 5. Warranties - 2 copies.
  - 6. Survey data - 2 copies.
  - 7. Closeout submittals – 2 copies.
- B. Submittal Procedures: Comply with project format for submittals. Comply with submittal procedures established by Architect including Architect's submittal and shop drawing stamp. Provide required resubmittals if original submittals are not approved. Provide distribution of approved copies including modifications after submittals have been approved.
- C. Samples and Shop Drawings: Samples and shop drawings shall be prepared specifically for this project. Shop drawings shall include dimensions and details, including adjacent construction and related work. Note special coordination required. Note any deviations from requirements of the Contract Documents.
- D. Warranties: Provide warranties as specified; warranties shall not limit length of time for remedy of damages Owner may have by legal statute. Contractor, supplier or installer responsible for performance of warranty shall sign warranties.

PART 2 PRODUCTS - Not Applicable To This Section

PART 3 EXECUTION - Not Applicable To This Section

END OF SECTION

SECTION 01 40 00  
QUALITY REQUIREMENTS

PART 1 GENERAL

1.1 SUMMARY

- A. Quality Monitoring: Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality. Perform quality control procedures and inspections during installation.
- B. Standards: Comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- C. Tolerances: Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate. Comply with manufacturers' tolerances.
- D. Reference Standards: For products or workmanship specified by association, trade, or other consensus standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.
- E. Manufacturer's Field Services: When specified in individual specification sections, require material or product suppliers or manufacturers to provide qualified staff personnel to perform the following as applicable, and to initiate instructions when necessary.
  - 1. Observe site conditions.
  - 2. Conditions of surfaces and installation.
  - 3. Quality of workmanship.
  - 4. Start-up of equipment.
  - 5. Test, adjust and balance of equipment.
- F. Mock-Ups: Assemble and erect specified items with specified attachment and anchorage devices, flashings, seals, and finishes. Accepted mock-ups shall be a comparison standard for the remaining Work.
- G. Removal of Mock-Ups: Where mock-up has been accepted by Owner and no longer needed, remove mock-up and clear area when directed to do so.

PART 2 PRODUCTS - Not Applicable To This Section

PART 3 EXECUTION - Not Applicable To This Section

END OF SECTION

SECTION 01 50 00  
TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1.1 SUMMARY

- A. Temporary Services: Provide temporary services and utilities.
  - 1. Water.
  - 2. Lighting and power.
  - 3. Telephone.
  - 4. Toilet facilities.
  - 5. Materials storage.
- B. Construction Facilities: Provide construction facilities, including payment of utility costs including the following.
  - 1. Construction equipment.
  - 2. Enclosures.
  - 3. Heating.
  - 4. Lighting.
  - 5. Access.
- C. Security and Protection: Provide security and protection requirements including the following.
  - 1. Fire extinguishers.
  - 2. Site enclosure fence, barricades, warning signs, and lights.
  - 3. Building enclosure and lock-up.
  - 4. Temporary jobsite protection.
  - 5. Environmental protection.
  - 6. Pest control during and at the end of construction.
  - 7. Snow and ice removal if applicable.
- D. Personnel Support: Provide personnel support facilities including the following.
  - 1. Sanitary facilities.
  - 2. Drinking water.
  - 3. Project identification sign.
  - 4. Cleaning.

PART 2 PRODUCTS

2.1 TEMPORARY JOBSITE PROTECTION

- A. Temporary Jobsite Protection of the Following Types:
  - 1. Hard surface protection.
  - 2. Carpet protection.
  - 3. Dust containment.
  - 4. Adhesive tape.

PART 3 EXECUTION - Not Applicable To This Section

END OF SECTION

SECTION 01 60 00  
PRODUCT REQUIREMENTS

PART 1 GENERAL

1.1 SUMMARY

- A. Manufactures: Provide products from one manufacturer for each type or kind as applicable. Provide secondary materials as acceptable to manufacturers of primary materials.
- B. Product Selection: Provide products selected or equal approved by Architect. Products submitted for substitution shall be submitted with complete documentation, and include construction costs of substitution including related work.
- C. Substitutions: Request for substitution must be in writing. Conditions for substitution include:
  - 1. An 'or equal' phrase in the specifications.
  - 2. Specified material cannot be coordinated with other work.
  - 3. Specified material is not acceptable to authorities having jurisdiction.
  - 4. Substantial advantage is offered to the Owner in terms of cost, time, or other valuable consideration.
- D. Substitution Requests: Substitutions shall be submitted prior to award of contract, unless otherwise acceptable. Approval of shop drawings, product data, or samples containing substitutions is not an approval of a substitution unless an item is clearly presented as a substitution at the time of submittal.

PART 2 PRODUCTS - Not Applicable To This Section

PART 3 EXECUTION - Not Applicable To This Section

END OF SECTION



SECTION 01 70 00  
EXECUTION AND CLOSEOUT REQUIREMENTS

PART 1 GENERAL

1.1 SUMMARY

- A. Substantial Completion: The following are prerequisites to substantial completion. Provide the following.
  - 1. Punch list prepared by Contractor and subcontractors as applicable.
  - 2. Supporting documentation.
  - 3. Warranties.
  - 4. Certifications.
  - 5. Start-up and testing of building systems.
  - 6. Commissioning documentation.
- B. Final Acceptance: Provide the following prerequisites to final acceptance.
  - 1. Final payment request with supporting affidavits.
  - 2. Completed punch list.
- C. As-Built Drawings: Provide a marked-up set of drawings including changes, which occurred during construction.
- D. Project Closeout: Provide the following during project closeout.
  - 1. Submission of record documents.
  - 2. Submission of maintenance manuals.
  - 3. Training and turnover to Owner's personnel.
  - 4. Final cleaning and touch-up.
  - 5. Removal of temporary facilities.

PART 2 PRODUCTS - Not Applicable To This Section

PART 3 EXECUTION

3.1 CUTTING AND PATCHING

- A. Cutting and Patching: Provide cutting and patching work to properly complete the work of the project, complying with project requirements for:
  - 1. Structural work.
  - 2. Mechanical/electrical systems.
  - 3. Visual requirements, including detailing and tolerances.
  - 4. Operational and safety limitations.
  - 5. Fire resistance ratings.
  - 6. Inspection, preparation, and performance.
  - 7. Cleaning.
- B. Means and Methods: Do not cut and patch in a manner that would result in a failure of the work to perform as intended, decrease energy performance, increase maintenance, decrease operational life, or decrease safety performance.
- C. Inspection: Inspect conditions prior to work to identify scope and type of work required. Protect adjacent work. Notify Owner of work requiring interruption to building services or Owner's operations.
- D. Performance of Operations: Perform work with workmen skilled in the trades involved. Prepare sample area of each type of work for approval.
- E. Cutting: Use cutting tools, not chopping tools. Make neat holes. Minimize damage to adjacent

Bond County Courthouse (5) Restrooms & (1) Location room remodel project – Bid Specifications Packet  
Bond County Public Commission – 206 W. Main St., Greenville, IL 62246

work. Inspect for concealed utilities and structure before cutting.

- F. Patching: Make patches, seams, and joints durable and inconspicuous. Comply with tolerances for new work.
- G. Cleaning: Clean work area and areas affected by cutting and patching operations.

END OF SECTION

SECTION 02 14 19  
SELECTIVE DEMOLITION

PART 1 GENERAL

1.1 SUMMARY

- A. Provide demolition activities

1.2 SUBMITTALS

- A. Schedule: Submit for approval selective demolition schedule, including schedule and methods for capping utilities to be abandoned and maintaining existing utility service.

1.3 QUALITY ASSURANCE

- A. Codes and Regulations: Comply with governing codes and regulations. Use experienced workers.

1.4 PROJECT CONDITIONS

- A. Occupancy: Immediate areas of work will not be occupied during selective demolition. The public, including children, may occupy adjacent areas.
- B. Existing Conditions: No responsibility for buildings and structures to be demolished will be assumed by the Owner

PART 2 PRODUCTS

2.1 DEMOLITION APPLICATIONS

- A. Selective Building Demolition:
  1. Application: Selective demolition of interior partitions, systems, and building components designated to be removed.
  2. Application: Protection of portions of building adjacent to or affected by selective demolition.
  3. Application: Removal of abandoned utilities and wiring systems.
  4. Application: Notification to Owner of schedule of shut-off of utilities which serve occupied spaces.
  5. Application: Pollution control during selective demolition, including noise control.
  6. Application: Removal and legal disposal of materials.
  7. Protection: Designated site improvements and adjacent construction.
  8. Salvage: Designated items.
  9. Utilities: Interruption, capping or removal as applicable.

PART 3 EXECUTION

3.1 SELECTIVE DEMOLITION

- A. Demolition Operations: Do not damage building elements and improvements indicated to remain. Items of salvage value, not included on schedule of salvage items to be returned to Owner, shall be removed from structure. Storage or sale of items at project site is prohibited.
- B. Utilities: Locate, identify, disconnect, and seal or cap off utilities in buildings to be demolished.
- C. Shoring and Bracing: Provide and maintain interior and exterior shoring and bracing.
- D. Occupied Spaces: Do not close or obstruct streets, walks, drives or other occupied or used spaces or facilities without the written permission of the Owner and the authorities having jurisdiction. Do not interrupt utilities serving occupied or used facilities without the written permission of the Owner and authorities having jurisdiction. If necessary, provide temporary utilities.

Bond County Courthouse (5) Restrooms & (1) Location room remodel project – Bid Specifications Packet  
Bond County Public Commission – 206 W. Main St., Greenville, IL 62246

- E. Operations: Cease operations if public safety or remaining structures are endangered. Perform temporary corrective measures until operations can be continued properly.
- F. Security: Provide adequate protection against accidental trespassing. Secure project after work hours.
- G. Restoration: Restore finishes of patched areas.

END OF SECTION

SECTION 09 30 00  
TILING

PART 1 GENERAL

1.1 SUMMARY

- A. Provide tile.

1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions for each material and product used.
- B. Samples: Submit two representative samples of each material specified indicating visual characteristics and finish. Include range samples if variation of finish is anticipated.
  - 1. Include manufacturers full range of color and finish options if additional selection is required.

1.3 QUALITY ASSURANCE

- A. Comply with governing codes and regulations. Provide products of acceptable manufacturers, which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.
- B. Tile: ANSI A 137.1.
- C. Tile Setting Materials: ANSI A 118 series standard specifications.
- D. Tile Installation: ANSI 108 series standard specifications and Tile Council of America, Handbook for Ceramic Tile Installation.
- E. Mock-Ups: Provide mock-up as required to demonstrate quality of workmanship.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Tile:
  - 1. Manufacturers: Porcelain mosaic tile flooring - Pianetto Tarsus Almond II hexagon porcelain mosaic 13 x 13 tile. Tile selected as basis of design. Verify actual tile, color and grout with owner.
  - 2. Application: Interior floor tile over plywood and wood framing.
- B. Setting Materials:
  - 1. Mortar setting bed.
    - a. Latex additive.
  - 2. Thin-set mortar.
    - a. Latex-Portland cement mortar.
  - 3. Grout.
    - a. Latex-Portland cement grout.
  - 4. Waterproofing membrane under tile.
    - a. ANSI A 118.10.
  - 5. Crack suppression membrane under tile.
    - a. ANSI A 118.10.
  - 6. Elastomeric sealants.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Comply with Tile Council of America and ANSI Standard Specifications for Installation for substrate and installation required. Comply with manufacturer's instructions and recommendations.
- B. Install waterproof membrane in accordance with manufacturer's instructions and recommendations.
- C. Lay tile in grid pattern with alignment grids. Layout tile to provide uniform joint widths and to minimize cutting; do not use less than 1/2 tile units.
- D. Provide sealant joints where recommended by TCA and approved by Architect.
- E. Grout and cure, clean and protect.

3.2 SCHEDULE

- A. Tile Schedule:
  - 1. Toilet Room Floors: Unglazed ceramic mosaic tile over concrete slab with latex-Portland cement mortar and latex-Portland cement grout.

END OF SECTION

SECTION 09 91 00  
PAINTING

PART 1 GENERAL

1.1 SUMMARY

- A. Provide painting and surface preparation.

1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions for each material and product used.
- B. Samples: Submit two representative samples of each material specified indicating visual characteristics and finish. Include range samples if variation of finish is anticipated.
  - 1. Include manufacturers full range of color and finish options if additional selection is required.
- C. Extra Stock: Submit 2 unopened gallons of each paint and color used in the project.

1.3 QUALITY ASSURANCE

- A. Comply with governing codes and regulations. Provide products of acceptable manufacturers, which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.
- B. Regulations: Compliance with VOC and environmental regulations.
- C. Mock-Ups: Provide mock-up as required to demonstrate quality of workmanship.
  - 1. Provide 4 foot x 4 foot mock-ups of each type of surface.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Painting: BEHR ULTRA® SCUFF DEFENSE or approved equal.
  - 1. Application: Repainting of existing surfaces.
  - 2. Primary Coating Type: Latex based paints.
  - 3. Primary Paint Systems: Primer plus two finish coats.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Inspect surfaces, report unsatisfactory conditions in writing; beginning work means acceptance of substrate.
- B. Comply with manufacturer's instructions and recommendations for preparation, priming and coating work. Coordinate with work of other sections.
- C. At existing areas to be repainted, remove blistered or peeling paint to sound substrates. Remove chalk deposits and mildew and wash all surfaces with mild detergent. Perform related minor preparation including caulk and glazing compounds. Spot prime bare areas before priming and painting as specified.
- D. Match approved mock-ups for color, texture, and pattern. Re-coat or remove and replace work which does not match or shows loss of adhesion. Clean up, touch up and protect work.

3.2 PAINT SCHEDULE

- A. Gypsum Drywall Walls and Ceilings in Bathrooms, Kitchens and Wet Areas:
  - 1. Gloss:
    - a. Semi
  - 2. System:
    - a. 1 coat latex primer
    - b. 2 coats latex finish
  
- B. Gypsum Drywall Ceilings:
  - 1. Gloss:
    - a. Flat
  - 2. System:
    - a. 1 coat latex primer
    - b. 2 coats latex finish
  
- C. Wood for Painted Finish:
  - 1. Gloss:
    - a. Semi
  - 2. System:
    - a. 1 coat latex primer
    - b. 2 coats latex enamel

END OF SECTION



SECTION 10 21 13  
TOILET COMPARTMENTS

PART 1 GENERAL

1.1 SUMMARY

- A. Provide toilet partitions and screens.

1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions for each material and product used.
- B. Shop Drawings: Submit shop drawings indicating material characteristics, details of construction, connections, and relationship with adjacent construction.
- C. Samples: Submit two representative samples of each material specified indicating visual characteristics and finish. Include range samples if variation of finish is anticipated.

1.3 QUALITY ASSURANCE

- A. Comply with governing codes and regulations. Provide products of acceptable manufacturers which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Toilet Compartments: (Alternate bid): Provide a separate alternate bid to replace all toilet partitions with new floor mounted overhead-braced restroom partitions. Bradley phenolic privacy partitions — Series 400 – Sentinel or equal. Color as selected by owner from standard colors. New toilet partitions to match size & configuration of existing toilet partitions. Field verify all dimensions.
  - 1. Compartments: Floor-anchored, overhead braced.
  - 2. Material: Solid phenolic.
    - a. High-pressure melamine surface fused to solid phenolic core.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials and systems in proper relation with adjacent construction and with uniform appearance. Coordinate with work of other sections.
- B. Limit openings between panels, doors and pilasters to less than 1/2".
- C. Adjust hardware, clean, and protect work.

END OF SECTION

SECTION 10 28 13  
TOILET ACCESSORIES

PART 1 GENERAL

1.1 SUMMARY

- A. Provide toilet accessories.

1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions for each material and product used.

1.3 QUALITY ASSURANCE

- A. Comply with governing codes and regulations. Provide products of acceptable manufacturers, which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Toilet Accessories:
  1. Accessory: Paper towel dispensers: Merfin # 51060
  2. Accessory: Toilet tissue dispensers: Remove & replace existing toilet paper dispensers with similar model. Bobrick Contura series recessed multi-roll toilet tissue dispenser, model # B-4388. 18-8, type-304, 22-gauge stainless steel. Welded construction. Exposed surfaces have satin finish
  3. Accessory: Grab bars: Remove existing grab bars. Replace with new ADA compliant grab bars at toilets. Bobrick model # B-5806. Stainless steel, satin finish, surface mount, 1-1/4" diameter, cover snaps over mounting flange to conceal screws. At each toilet provide (1) 36" horizontal @ rear wall, (1) 42" horizontal @ sidewall, (1) 18" vertical @ sidewall. See grab bar location diagram on cover sheet A0.
  4. Accessory: Soap dispensers - Deck mounted & sink integral. See drawings.
  5. Accessory: Coat hooks. See drawings – Keynote #18, sheet A1.
  6. Accessory: Baby changing stations. Match existing. Field verify.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials and systems in proper relation with adjacent construction and with uniform appearance. Coordinate with work of other sections.
- B. Restore damaged finishes and test for proper operation. Clean and protect work from damage.

END OF SECTION

SECTION 22 03 00  
PLUMBING FIXTURES

PART 1 GENERAL

1.1 SUMMARY

- A. Provide plumbing fixtures.

1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions for each material and product used.
- B. Shop Drawings: Submit shop drawings indicating material characteristics, details of construction, connections, and relationship with adjacent construction.
- C. Operation and Maintenance Data: Submit manufacturer's operation and maintenance data, including operating instructions, list of spare parts and maintenance schedule.

1.3 QUALITY ASSURANCE

- A. Comply with governing codes and regulations. Provide products of acceptable manufacturers, which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.
- B. Coordinate with Owner's room uses to provide adequate system for all contract areas.
- C. Coordinate location of plumbing systems to avoid interference with location of structure and other building systems. Notify Owner prior to construction of conflicts, which cannot be resolved.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Plumbing Fixtures (1st floor main restrooms by front entry):
  - a. Remove & replace existing toilets with new ADA compliant floor mounted, rear outlet toilets. Kohler Barrington comfort height two-piece elongated chair height toilet model # K-3578-RA or equal. (Provide seat & lid) white color. Toilet flush lever to be on open side of toilet. See drawing sheet A1.
  - b. Remove & replace existing sink & faucet with new ADA compliant fixtures. New sink to be Kohler Greenwich wall-mount bathroom sink model # K-2032-NR-0 (white color) with integral sink mounted soap dispenser or equal. Faucet to be Delta single handle deck mount model # B501LF chrome finish or equal. Protect plumbing pipes below sink. Lavatories shall be mounted with the rim or counter surface no higher than 34" above the finish floor. See drawing sheet A1.
  - c. Remove & replace existing urinal & flush valve with new ADA compliant fixtures. Wall-hung type with the rim 17 inches maximum above the finish floor or ground. Urinal shall be 13 1/2 inches deep minimum measured from the outer face of the urinal rim to the back of the fixture. Kohler Dexter urinal model # K-5016-ET or equal. Color = white. Provide new polished chrome finish manual flush valve. See drawing sheet A1.
- B. Plumbing Fixtures (1st floor lactation room):
  - a. Small electric point-of-use tankless water heater inside of cabinet. Water heater to be electrically hardwired via metal conduit. See detail drawing 7/A2. See specification sheet for water heater info on drawing sheet A2. Plumbing contractor to select water heater size.

Bond County Courthouse (5) Restrooms & (1) Location room remodel project – Bid Specifications Packet  
Bond County Public Commission – 206 W. Main St., Greenville, IL 62246

- b. Install new ADA compliant counter sink & faucet with knee space below with wood apron to cover plumbing pipes. Faucet to be Delta single handle deck mount model # B501LF chrome finish or equal. Sink to be ADA compliant drop-in vitreous china bathroom sink in white with overflow drain. Lavatories shall be mounted with the rim or counter surface no higher than 34" above the finish floor. See drawing sheet A2.
- C. Plumbing Fixtures (2nd floor judges restroom):
- a. Remove toilet and replace with new ADA compliant toilet. Plumber to inspect lack of water flow issue at toilet and report issue and possible solution to owner for decision. New ADA compliant toilet to be Mansfield 137-160 Alto elongated front, smart-height, vitreous china, two-piece toilet or equal (provide seat & lid) white color. See drawing sheet A3.
  - b. Remove & replace existing sink & faucet with new ADA compliant fixture. New sink to be Kohler Greenwich wall-mount bathroom sink model # K-2032-NR-0 (white color) with integral sink mounted soap dispenser or equal. Faucet to be Delta single handle deck mount model # B501LF chrome finish or equal. Protect plumbing pipes below sink. Lavatories shall be mounted with the rim or counter surface no higher than 34" above the finish floor. See drawing sheet A3.
- D. Plumbing Fixtures (2nd floor courtroom restrooms):
- a. Remove & replace existing toilets with new ADA compliant floor mounted, rear outlet toilets. Kohler Barrington comfort height two-piece elongated chair height toilet model # K-3578-RA or equal. (Provide seat & lid) white color. Toilet flush lever to be on open side of toilet. See drawing sheet A4.
  - b. Remove & replace existing sink & faucet with new ADA compliant fixtures. New sink to be Kohler Greenwich wall-mount bathroom sink model # K-2032-NR-0 (white color) with integral sink mounted soap dispenser or equal. Faucet to be Delta single handle deck mount model # B501LF chrome finish or equal. Protect plumbing pipes below sink. Lavatories shall be mounted with the rim or counter surface no higher than 34" above the finish floor. See drawing sheet A4.

## PART 3 EXECUTION

### 3.1 INSTALLATION

- A. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials in proper relation with adjacent construction and with uniform appearance for exposed work. Coordinate with work of other sections. Comply with applicable regulations and building code requirements.
- B. Support piping properly. Pitch to drain points. Install with pipe expansion loops, mechanical expansion joints, and anchors.
- C. Install shutoff valves on each piece of equipment on both hot and cold water supply.
- D. Clearly label all valves and components.
- E. Sterilize water distribution system. Flush and test all systems for proper operation. Adjust system to prevent water hammer.
- F. Restore damaged finishes. Clean and protect work from damage.
- G. Instruct Owner's personnel in proper operation of systems.

END OF SECTION

SECTION 22 05 00  
COMMON WORK RESULTS FOR PLUMBING

PART 1 GENERAL

1.1 SUMMARY

- A. Provide common work results for plumbing systems.

1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions for each material and product used.
- B. Shop Drawings: Submit shop drawings indicating material characteristics, details of construction, connections, and relationship with adjacent construction.
1. Shop drawings shall be prepared and stamped by a qualified engineer licensed in the jurisdiction of the project.
- C. Operation and Maintenance Data: Submit manufacturer's operation and maintenance data, including operating instructions, list of spare parts and maintenance schedule.

1.3 QUALITY ASSURANCE

- A. Comply with governing codes and regulations. Provide products of acceptable manufacturers, which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.

PART 2 PRODUCTS

2.1 PRODUCTS

- A. Common Work Results for Plumbing:
1. Manufacturers: QM Drain; QuickDrain USA; RWC Canada; Winters Instruments; Zurn Industries LLC.
  2. Application: Locations indicated.
  3. Sustainable Design: Utility efficient equipment and fixtures.
  4. Sustainable Design: Commissioning.
  5. Pipes and Fittings:
    - a. Drawn Temper Copper Pipe and Tube Material: ASTM B 88, Type L.
    - b. Annealed Temper Copper Pipe and Tube Material ASTM B 88, Type K.
    - c. Steel Pipe: ASTM A 53, Schedule 10 black steel pipe.
    - d. Steel Pipe: ASTM A 53, Schedule 40 black steel pipe.
    - e. Plastic Pipe: ASTM D 2846 CPVC pipe.
    - f. Fittings: Suitable for piping type and service class.
    - g. Joints: Solder, gaskets, grooved mechanical joints, press-seal fittings.
  6. Valves: Gate, ball, plug, globe, butterfly, and check valves.
  7. Expansion Joints for Piping Systems: 200 percent absorption capacity.
  8. Meters and Gages: Temperature and indicator ranges for services required.
  9. Supports and Anchors: MSS SP-58.
  10. Motors: NEMA MG 1 motors with suitable phase, frequency rating, voltage rating.
  11. Mechanical Identification: ASME A13.1 as applicable, color coded.
  12. Vibration Control: Pads, isolators, hangers and flexible connectors.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install materials and systems in accordance with manufacturer's instructions and approved

Bond County Courthouse (5) Restrooms & (1) Location room remodel project – Bid Specifications Packet  
Bond County Public Commission – 206 W. Main St., Greenville, IL 62246

submittals. Install materials in proper relation with adjacent construction and with uniform appearance for exposed work. Coordinate with work of other sections. Comply with applicable regulations and code requirements. Provide proper clearances for servicing.

- B. Maintain indicated fire ratings of walls, partitions, ceilings and floors at penetrations. Seal with firestopping to maintain fire rating.
- C. Clearly label and tag all components.
- D. Test and balance all systems for proper operation.
- E. Restore damaged finishes. Clean and protect work from damage.
- F. Instruct Owner's personnel in proper operation of systems.

END OF SECTION

SECTION 23 00 00  
HEATING, VENTILATING, AND AIR CONDITIONING

PART 1 GENERAL

1.1 SUMMARY

- A. Provide heating, ventilating, and air conditioning systems.

1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions for each material and product used.
- B. Shop Drawings: Submit shop drawings indicating material characteristics, details of construction, connections, and relationship with adjacent construction.
- C. Operation and Maintenance Data: Submit manufacturer's operation and maintenance data, including operating instructions, list of spare parts and maintenance schedule.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Heating, Ventilating, and Air Conditioning:
1. 1st floor main restrooms by front entry (Drawing sheet A1):
    - a. Replace existing in-line exhaust fans in both men's & women's restrooms with new 150 cfm in-line exhaust fans. New exhaust fans to be tied into light switch. Existing exhaust fan ductwork is located above existing ceiling and exits out south exterior wall. Verify new exhaust fans can fit through existing ceiling access panel opening (approximately 15" x 15").
    - b. Provide new electric base board heaters in both men's & women's restrooms. Raywall 2900C series electric baseboard heater model # E2915-072C. Wattage = 1500, 120v, phase-1, 12.5 amps, finish = bronze color (verify w/ owner), accessories = DSW, inbuilt thermostat.
  2. 2<sup>nd</sup> floor courtroom restrooms (Drawing sheet A4):
    - a. Provide new in-line minimum 50 cfm exhaust fan in each restroom. Exhaust to extend to rubber flat roof above. Field verify exact routing / location. New exhaust fan to be tied into light switch.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials in proper relation with adjacent construction and with uniform appearance for exposed work. Coordinate with work of other sections. Comply with applicable regulations and building code requirements.
- B. Support piping properly. Pitch to drain points. Install with pipe expansion loops, mechanical expansion joints, and anchors.
- C. Install shutoff valves on each piece of equipment on both hot and cold water supply.
- D. Install ductwork in accordance with SMACNA recommendations. Seal duct seams with sealer. Provide splitters and balancing dampers. Provide fire dampers and automatic smoke and fire dampers where required. Provide flexible connectors and inlet and discharge connections. Clean before testing and balancing.
- E. Clearly label and tag all components.

Bond County Courthouse (5) Restrooms & (1) Location room remodel project – Bid Specifications Packet  
Bond County Public Commission – 206 W. Main St., Greenville, IL 62246

- F. Test and balance all systems for proper operation.
- G. Restore damaged finishes. Clean and protect work from damage.
- H. Instruct Owner's personnel in proper operation of systems.

END OF SECTION



SECTION 26 05 00  
COMMON WORK RESULTS FOR ELECTRICAL

PART 1 GENERAL

1.1 SUMMARY

- A. Provide common work results for electrical systems.

1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions for each material and product used.
- B. Shop Drawings: Submit shop drawings indicating material characteristics, details of construction, connections, and relationship with adjacent construction.
1. Shop drawings shall be prepared and stamped by a qualified engineer licensed in the jurisdiction of the project.
- C. Operation and Maintenance Data: Submit manufacturer's operation and maintenance data, including operating instructions, list of spare parts and maintenance schedule.

1.3 QUALITY ASSURANCE

- A. Comply with governing codes and regulations. Provide products of acceptable manufacturers which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Common Work Results for Electrical:
1. Manufacturers: [FSR Inc.](#); [Seton Identification Products](#).
  2. Application: Locations indicated.
  3. Sustainable Design: Utility efficient equipment and fixtures.
  4. Sustainable Design: Commissioning.
  5. Medium-Voltage Cables:
    - a. Single and Multiple Conductor Types: UL 1072.
    - b. Cable: Cross-linked polyethylene, XLP, insulated, NEMA WC 7.
    - c. Cable: Ethylene propylene rubber, EPR, insulated, NEMA WC 8.
    - d. Conductors: Class B stranded, annealed copper.
    - e. Conductors: Class B stranded, aluminum.
    - f. Cable Jacket: PVC.
    - g. Cable Jacket: PVC extruded over metal armor.
    - h. Cable Jacket: Cross-linked polyolefin.
    - i. Metallic Shielding: Copper shielding tape.
    - j. Metallic Shielding: Solid copper wires.
    - k. Cable Voltage Rating: 15 kV phase to phase.
    - l. Insulation Thickness: Corresponding to referenced standard.
    - m. Circuit Identification: Color-coded tape.
    - n. Three-Conductor Cable Assembly: Shield conductors with grounding conductor.
    - o. Type MC Cable Armor: Aluminum interlocked armor.
    - p. Type MC Cable Armor: Galvanized steel interlocked armor.
    - q. Splices, Terminations, Kits, Cable Seals, Junctions: Suitable for service.
    - r. Arc-Proofing Materials: UL fireproofing intumescent tape.
    - s. Fault Indicators: Manual reset fault indicator to clamp to cable sheath.
  6. Low-Voltage Cables:

Bond County Courthouse (5) Restrooms & (1) Location room remodel project – Bid Specifications Packet  
Bond County Public Commission – 206 W. Main St., Greenville, IL 62246

- a. Armored Cable: UL Types AC.
  - b. Metal-Clad Cable in Cable Trays: UL Type MC.
  - c. Nonmetallic-Sheathed Cable for Lighting Wiring: UL Type NM and NMC.
  - d. Aboveground Service Entrance Cable: UL Type SE.
  - e. Underground Service Entrance Cable: UL Type USE.
  - f. Underground Feeder and Branch-Circuit Cable: UL Type UF.
  - g. Portable Cord for Flexible Pendant Leads to Outlets and Equipment: UL Type S.
  - h. Control/Signal Transmission Media: Single conductor coaxial type.
  - i. Flat Cabling System for Power Under Carpet Tile: Factory-laminated assembly.
  - j. Flat Cabling System for Tel/Data Transmission Under Carpet Tile: Flat cable.
  - k. Fiber Optic Cables: Single channel low-loss glass type.
  - l. 7.Wire Components:
  - m. Conductors, No. 10 AWG and Smaller: Solid.
  - n. Conductors, No. 8 AWG and Larger: Stranded.
  - o. Insulation: THW, THHN/THWN or XHHW as applicable.
  - p. Jackets: Factory-applied nylon or PVC.
  - q. Conductor Material: Copper.
  - r. Conductor Material: Copper-clad aluminum.
  - s. Conductor Material: Aluminum.
7. Metal Conduit and Tubing:
- a. Rigid Aluminum Conduit: ANSI C80.5.
  - b. Rigid Steel Conduit: ANSI C80.1.
  - c. Intermediate Steel Conduit: UL 1242.
  - d. PVC Coated Rigid Steel Conduit and Fittings: ANSI C80.1, NEMA RN 1.
  - e. Electrical Metallic Tubing (EMT) and Fittings: ANSI C80.3.
  - f. PVC Coated Electrical Metallic Tubing and Fittings: ANSI C80.3, NEMA RN 1.
  - g. Flexible Metal Conduit: UL 1 aluminum.
  - h. Flexible Metal Conduit: UL 1 zinc-coated steel.
  - i. Liquidtight Flexible Metal Conduit and Fittings: UL 360.
8. Nonmetallic Conduit and Ducts:
- a. Electrical Nonmetallic Tubing (ENT): NEMA TC 13.
  - b. Rigid Nonmetallic Conduit (RNC): NEMA TC 2 and UL 651, PVC.
  - c. Underground PVC and ABS Plastic Utilities Duct: NEMA TC 6.
  - d. PVC and ABS Plastic Utilities Duct Fittings: NEMA TC 9.
  - e. Liquidtight Flexible Nonmetallic Conduit and Fittings: UL 1660.
9. Boxes and Fittings:
- a. Cabinet Boxes: UL 50, sheet steel, NEMA 1.
  - b. Pull and Junction Boxes: UL 50, steel boxes.
  - c. Metal Outlet, Device and Small Wiring Boxes: UL 514A and OS 1.
  - d. Nonmetallic Outlet, Device and Small Wiring Boxes: NEMA OS 2.
10. Raceway Accessory Materials:
- a. Conduit Bodies: NEC requirements.
  - b. Wireways: NEC requirements.
  - c. Surface Raceways, Metallic: Galvanized steel, with snap-on covers.
  - d. Surface Raceways, Nonmetallic: Rigid PVC, UL 94.
11. Cable Trays:
- a. Materials: Mill galvanized steel.
  - b. Materials: Hot-dip galvanized steel.
  - c. Materials: PVC-coated steel.
  - d. Configuration: Ladder type, trough-type, solid-bottom type, channel type.
  - e. Covers: Solid type, louvered type, and ventilated-hat type.
12. Components: Suitable for service.
- a. Cables, conduit, and tubing.
  - b. Grounding and bonding devices.
  - c. Hangers and supports.
  - d. Raceways, boxes, and cabinets.
  - e. Cable trays.

- f. Vibration and seismic controls.
- g. Identification devices and warning labels.
- h. Service entrance components.

### PART 3 EXECUTION

#### 3.1 INSTALLATION

- A. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials in proper relation with adjacent construction and with uniform appearance for exposed work. Coordinate with work of other sections. Comply with applicable regulations and code requirements. Provide proper clearances for servicing.
- B. Maintain indicated fire ratings of walls, partitions, ceilings and floors at penetrations. Seal with firestopping to maintain fire rating.
- C. Clearly label and tag all components.
- D. Test and balance all systems for proper operation.
- E. Restore damaged finishes. Clean and protect work from damage.
- F. Instruct Owner's personnel in proper operation of systems.

END OF SECTION

SECTION 26 51 00  
INTERIOR LIGHTING

PART 1 GENERAL

1.1 SUMMARY

- A. Provide interior lighting.

1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions for each material and product used.
- B. Shop Drawings: Submit shop drawings indicating material characteristics, details of construction, connections, and relationship with adjacent construction.
- C. Operation and Maintenance Data: Submit manufacturer's operation and maintenance data, including operating instructions, list of spare parts and maintenance schedule.

1.3 QUALITY ASSURANCE

- A. Comply with governing codes and regulations. Provide products of acceptable manufacturers, which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.
- B. Compliance: NFPA 70 "National Electrical Code."

PART 2 PRODUCTS

2.1 MATERIALS

- A. Interior Lighting:
  - a. Remove existing wall mounted light fixture above sink (See drawings for locations). Install new LED light bar - WAC Lighting Metro 27" wide LED bath bar with an acrylic diffuser model: WS-180127-30-CH - chrome finish.

2.2 INSTALLATION

- A. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials in proper relation with adjacent construction and with uniform appearance for exposed work. Coordinate with work of other sections. Provide proper clearances for servicing.
- B. Maintain indicated fire ratings of walls, partitions, ceilings and floors at penetrations. Seal with firestopping to maintain fire rating.
- C. Test all systems for proper operation. Label circuits in electrical panels.
- D. Restore damaged finishes. Clean and protect work from damage.
- E. Instruct Owner's personnel in proper operation of systems.

END OF SECTION