

SECTION 07 01 50

PREPARATION FOR RE-ROOFING

PART 1 - GENERAL

1.1 SUMMARY

- A. Work of this section specifies removal of roof assemblies and related accessories and includes, but is not limited to, the following:
 - 1. Metal and Slate Roof Assemblies.
 - 2. Gutters and downspouts.
 - 3. Sheet Metal Flashings and Trim.
 - 4. Failed roof sheathing and framing.
 - 5. Roofing Preparation.
 - 6. Salvage of existing slate.
- B. Coordination: Removal of the existing roof system requires the proper removal, handling and disposal of asbestos containing materials. This Work shall be coordinated with SI and regulatory requirements specified in Section 02 82 13.21, ASBESTOS ROOFING ABATEMENT and Section 02 83 33.13, LEAD BASED PAINT REMOVAL AND DISPOSAL.
- C. Related Work:
 - 1. Slate: Section 07 31 00, SLATE SHINGLES.
 - 2. Flashing: Section 07 61 16, SHEET METAL FLASHING AND TRIM.
 - 3. Metal Roofing: Section 07 62 00, SHEET METAL ROOFING,
 - 4. Wood Framing: Section 06 10 00, ROUGH CARPENTRY.
 - 5. Insulation: Section 07 21 13, THERMAL INSULATION.

1.2 SYSTEM DESCRIPTION

- A. Demolition Plan: Submit roofing Demolition Plan that outlines removal methods, including the following:
 - 1. Description of tools to be used.
 - 2. Description of removal methods.
 - 3. Description of temporary protection measures during inclement weather.
 - 4. Description of sequencing the Work including the interface with the installation of new roofing.
- B. Photographs: Show existing conditions of adjoining construction and site improvements, including exterior and interior finish surfaces that might be misconstrued as having been damaged by reroofing operations. Submit before work begins.
- C. Temporary Roofing System Design Requirements:
 - 1. In development of the temporary roofing system, the Contractor's Registered Professional Engineer shall take the following design requirements into account:
 - a. Loads imposed during execution and installed loads of temporary measures.
 - b. Wind Uplift Provisions for Temporary Roofing: Match

requirements for new roofing systems.

- c. Weathertightness: Contractor shall demonstrate how the temporary roof system will prevent the uncontrolled penetration of all water and moisture into the building's interior.

1.3 MATERIALS OWNERSHIP

- A. Except for items or materials indicated to be reused, reinstalled, or otherwise indicated to remain the Government's property, demolished materials shall become Contractor's property and shall be removed from Project site.

1.4 DEFINITIONS

- A. Roofing Terminology: Refer to ASTM D 1079 and glossary in NRCA's "The NRCA Roofing and Waterproofing Manual" for definition of terms related to roofing work in this Section.
- B. Existing Roofing Systems: Slate shingle, sheet metal standing seam, sheet metal flat seam and 2-Ply membrane roofing with surfacing and components between deck and finish roofing.
- C. Remove: Detach items from existing construction and legally dispose of them off-site unless indicated to be removed and reinstalled.
- D. Existing to Remain: Existing items of construction that are not indicated to be removed.

1.5 SUBMITTALS

- A. Comply with requirements of Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES regarding electronic submittals.
- B. Submit the following:
 - 1. Demolition Plan.
 - 2. Project Schedule : Submit in accordance with Section 01 32 16.15, PROJECT SCHEDULES.
 - 3. Protection Submittals: Submit the following.
 - a. Protection Plan for building and site.
 - b. Product Data: For each type of proposed protection material.
 - 4. Coordination Plan: Submit in accordance with Section 013100, PROJECT MANAGEMENT AND COORDINATION.
 - a. Coordination plan shall include documentation that adjacent, unrelated Work has been completed and accepted by the VA so that traffic across new roofing will not be required.
- C. Temporary Roofing: Include Product Data and description of Contractor's proposed temporary roofing system. If temporary roof will remain in place, submit surface preparation requirements needed to receive permanent roof, and submit a letter from roofing membrane manufacturer stating acceptance of the temporary membrane and that its inclusion will not adversely affect the roofing system's resistance to fire and wind or its FM Global rating.
 - 1. Shop Drawings detailing temporary roofing system shall be prepared and stamped by a Professional Engineer currently licensed to practice in the Commonwealth of Virginia.

- D. Photographs or Videotape: Show existing conditions of adjoining construction and site improvements, including exterior and interior finish surfaces that might be misconstrued as having been damaged by reroofing operations. Submit before Work begins.
- E. Demolition Plan: Submit proposed plan for protection of building and site.
- F. Landfill Records: Indicate receipt and acceptance of hazardous wastes, such as asbestos-containing material, by a landfill facility licensed to accept hazardous wastes. Prepare and execute records in accordance with Section 02 82 13.21 ASBESTOS ROOFING ABATEMENT, and Section 02 83 33.13, LEAD-BASED PAINT REMOVAL AND DISPOSAL
- G. Qualification Data: For re-roofing Contractor including certificate that Contractor is licensed to perform asbestos abatement.

1.6 QUALITY ASSURANCE

A. Contractor Qualifications:

- 1. Contractor shall have at least five years of experience in the application of re-roofing and which has successfully completed five (5) projects similar scope, and complexity within the last ten (10) years. Additionally, subcontractor shall be trained and licensed to perform asbestos removal Work as specified in Section 02 82 13.21, ASBESTOS ROOFING ABATEMENT.
- 2. Workforce Requirements: Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work.
- 3. Re-roofing Supervisor: Installer must maintain full-time supervisor on job site during times that roofing Work is in progress. Supervisor must have minimum of five (5) years experience as supervisor of roofing work similar in nature and scope to Work of this Project.

B. Regulatory Requirements: Comply with governing EPA notification regulations before beginning roofing removal. Comply with hauling and disposal regulations of authorities having jurisdiction.

C. Reroofing Conference: Conduct conference at Project site.

- 1. Meet with VA; testing and inspecting agency representative; roofing system manufacturer's representative; deck Installer; roofing Installer including project manager, superintendent, and foreman; and installers whose work interfaces with or affects reroofing including installers of roof accessories and roof-mounted equipment.
- 2. Review methods and procedures related to roofing system tear-off and replacement including, but not limited to, the following:
 - a. Reroofing preparation, including membrane roofing system manufacturer's written instructions.
 - b. Existing and temporary roof drainage during each stage of reroofing, and roof drain plugging and plug removal requirements.
 - c. Construction schedule and availability of materials, Installer's personnel, equipment, and facilities needed to make

- progress and avoid delays.
- d. Structural loading limitations of deck during Work.
- e. Base flashings, special roofing details, drainage, penetrations, equipment curbs, and condition of other construction that will affect reroofing.
- f. Removal of asbestos-containing material.
- g. Governing regulations and requirements for insurance and certificates if applicable.
- h. Existing conditions that may require notification of VA before proceeding.
- i. Coordinate with slate roofing installer allowing them access to existing roof prior to demolition for documentation of existing conditions including but not limited to slate color and patterns.

1.7 PROJECT CONDITIONS

- A. Protect building to be reroofed, adjacent buildings, walkways, site improvements, exterior plantings, and landscaping from damage or soiling from reroofing operations.
- B. Weather Limitations: Proceed with reroofing preparation only when existing and forecasted weather conditions permit Work to proceed without water entering existing roofing system or building.
- C. Temporary Roof Exception: Work may continue during inclement weather provided temporary roof system is and remains intact so that water penetration into the building does not occur.
- D. Hazardous Materials: The presence of hazardous materials related to roofing construction is indicated on the Drawings and elsewhere. Examine these documents prior to become aware of locations where hazardous materials are present.

PART 2 - PRODUCTS

2.1 TEMPORARY ROOFING MATERIALS

- A. Design and selection of materials for temporary roofing are responsibilities of Contractor, unless the materials are intended to be incorporated into permanent roof system.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Protect existing roofing systems until they are scheduled for removal.
 - 1. Limit traffic and material storage to areas of existing roofing that has been protected.
 - 2. Maintain temporary protection and leave in place until replacement roofing has been completed. Remove temporary protection on completion of reroofing.
- B. During removal operations, have sufficient and suitable materials on-site to facilitate rapid installation of temporary protection in the event of unexpected rain.

- C. Maintain roof drainage in functioning condition to ensure roof drainage at end of each workday. Prevent debris from entering or blocking roof drains and conductors. Use plugs specifically designed for this purpose. Remove plugs at end of each workday, when no work is taking place, or when rain is forecast.

- 1. If roof drainage is temporarily blocked or unserviceable due to roofing system removal or partial installation of new roofing system, provide alternative drainage method to remove water and eliminate damming. Do not permit water to enter into or under existing roofing systems.

3.2 ROOF TEAR-OFF

- A. Roof Tear-Off: Proceed with Work in a progressive manner. Perform only the amount of Work that can be protected immediately in the event of inclement weather.

3.3 TEMPORARY ROOFING SYSTEM

- A. Install approved temporary roofing system in locations coordinated with the location and progression of removal of the existing roof system.
- B. Coordinate temporary roofing and existing roof removal so that the building interior is not exposed to inclement weather. In the event of precipitation, temporary roofing measures shall accommodate the deconstructed state of existing roof, wherever it may exist.

3.4 DISPOSAL

- A. Collect demolished materials and place in containers. Promptly dispose of demolished materials. Do not allow demolished materials to accumulate on-site.
 - 1. Storage or sale of demolished items or materials on-site is not permitted.
- B. Transport and legally dispose of demolished materials off Cemetery property.
- C. Comply with Government's and regulatory requirements for proper handling, storage and disposal of hazardous materials.

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