Technical Specification Index – January 2023

Division 2

<table>
<thead>
<tr>
<th>Division</th>
<th>Title</th>
<th>Updated</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIVISION 2: EXISTING CONDITIONS</td>
<td>024116 Structure Demolition</td>
<td>Revised 01/23</td>
</tr>
<tr>
<td></td>
<td>024119 Selective Demolition</td>
<td>Revised 01/23</td>
</tr>
</tbody>
</table>
SECTION 02 41 16

STRUCTURE DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Demolition and removal of buildings and site improvements.
   2. Abandoning in-place and/or removing below-grade construction.
   3. Disconnecting, capping, or sealing, and abandoning in-place and/or removing site utilities.
   4. Removal of underground tanks and piping.
   5. Salvaging designated items for reuse by Owner.

B. Related Requirements:
   1. Section 01 10 00 "Summary" for use of the premises and phasing requirements.
   2. Section 01 32 00 "Construction Progress Documentation" for preconstruction photographs taken before building demolition.
   3. Section 01 73 00 "Execution" for cutting and patching procedures.
   4. Section 02 41 19 "Selective Demolition" for partial demolition of buildings, structures, and site improvements.
   5. Section 31 10 00 "Site Clearing" for site clearing and removal of above- and below-grade site improvements not part of building demolition.

1.2 DEFINITIONS

A. Remove: Detach items from existing construction and dispose of them off-site unless indicated to be salvaged.

B. Remove and Salvage: Detach items from existing construction, in a manner to prevent damage, and deliver to Owner ready for reuse, or store as directed by Owner. Include fasteners or brackets needed for reattachment elsewhere.

1.3 MATERIALS OWNERSHIP

A. Unless otherwise indicated, demolition waste becomes property of Contractor.

B. Historic items, relics, antiques, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, and other items of interest or value to Owner that may be uncovered during demolition remain the property of Owner.
   1. Carefully salvage in a manner to prevent damage and promptly return to Owner.
1.4 COORDINATION
   A. Arrange demolition schedule so as not to interfere with Owner's on-site operations or operations of adjacent occupied buildings.

1.5 PREINSTALLATION MEETINGS
   A. Pre-Demolition Conference: Conduct conference at Project site.
      1. Inspect and discuss condition of construction to be demolished.
      2. Review structural load limitations of existing structures.
      3. Review and finalize building demolition schedule and verify availability of demolition personnel, equipment, and facilities needed to make progress and avoid delays.
      4. Review and finalize protection requirements.
      5. Review procedures for noise control and dust control.
      6. Review procedures for protection of adjacent buildings.
      7. Review items to be salvaged and returned to Owner.

1.6 INFORMATIONAL SUBMITTALS
   A. Qualification Data: For refrigerant recovery technician.
   C. Proposed Protection Measures: Submit report, including Drawings, that indicates the measures proposed for protecting individuals and property, for environmental protection, for dust control and, for noise control. Indicate proposed locations and construction of barriers.
      1. Adjacent Buildings: Detail special measures proposed to protect adjacent buildings to remain including means of egress from those buildings.
   D. Schedule of Building Demolition Activities: Indicate the following:
      1. Detailed sequence of demolition work, with starting and ending dates for each activity.
      2. Temporary interruption of utility services.
      3. Shutoff and capping or re-routing of utility services.
   E. Pre-Demolition Photographs or Video: Show existing conditions of adjoining construction and site improvements, including finish surfaces, that might be misconstrued as damage caused by salvage and demolition operations. Comply with Section 01 32 33 "Photographic Documentation." Submit before the Work begins.
   F. Statement of Refrigerant Recovery: Signed by refrigerant recovery technician responsible for recovering refrigerant, stating that all refrigerant that was present was recovered and that recovery was performed according to EPA regulations. Include name and address of technician and date refrigerant was recovered.

STRUCTURE DEMOLITION
02 41 16 - 2

Last Updated: January 2023
1.7 CLOSEOUT SUBMITTALS
   A. Inventory: Submit a list of items that have been removed and salvaged.

1.8 QUALITY ASSURANCE
   A. Refrigerant Recovery Technician Qualifications: Certified by EPA-approved certification program.

1.9 FIELD CONDITIONS
   A. Buildings to be demolished will be vacated and their use discontinued before start of the Work.

   B. Buildings immediately adjacent to demolition area will be occupied. Conduct building demolition so operations of occupied buildings will not be disrupted.
      1. Provide not less than 5 working days’ notice of activities that will affect operations of adjacent occupied buildings.
      2. Maintain access to existing walkways, exits, and other facilities used by occupants of adjacent buildings.
         a. Do not close or obstruct walkways, exits, or other facilities used by occupants of adjacent buildings without written permission from authorities having jurisdiction.

   C. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.

      1. SRP will provide Contractor with documentation that all materials to be disturbed have been tested and cleared for removal prior to commencement of the Work.
      2. Contractor shall post written documentation of the materials sampled, along with the results at the Project site for the duration of the Work.
      3. Contractor shall communicate to all subcontractors of the materials sampled and the laboratory results as noted in the written documentation provided by SRP.
      4. Contractor and subcontractors are responsible for notifying the Owner should they discover suspect materials or materials not documented as being previously sampled that will impact the Work. Work shall immediately cease until SRP’s Facilities Asbestos Administrator (“FAA”) has sampled the suspect materials and has provided documentation that the materials are negative and written clearance has been provided to the Contractor. The additional clearance shall be posted at the Project site.
      5. Contractor is not responsible for removal or abatement of asbestos, lead, or any remediation of mold and other hazardous materials. In the event hazardous materials are encountered, Work shall immediately cease, and SRP shall be notified immediately.
      6. SRP will engage contractors to abate hazardous material(s) and will provide air testing and documentation of clearances after removal.
7. Contractor and subcontractors shall not use or install any building material that contains asbestos or any other hazardous material.

E. On-site storage or sale of removed items or materials is not permitted.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.

B. Standards: Comply with ANSI/ASSE A10.6 and NFPA 241.

2.2 SOIL MATERIALS

A. Satisfactory Soils: Comply with requirements in Section 31 20 00 "Earth Moving."

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that utilities have been disconnected and capped before starting demolition operations.

B. Review Project Record Documents of existing construction or other existing condition and hazardous material information provided by Owner. Owner does not guarantee that existing conditions are same as those indicated in Project Record Documents.

C. Engage a professional engineer to perform an engineering survey of condition of building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during building demolition operations.

D. Steel Tendons: Locate tensioned steel tendons and include recommendations for detensioning.

E. Verify that hazardous materials have been remediated before proceeding with building demolition operations.

F. Inventory and record the condition of items to be removed and salvaged.
3.2 PREPARATION

A. Refrigerant: Before starting demolition, remove refrigerant from mechanical equipment according to 40 CFR 82 and regulations of authorities having jurisdiction.

B. Salvaged Items: Comply with the following:
   1. Clean salvaged items of dirt and demolition debris.
   2. Pack or crate items after cleaning. Identify contents of containers.
   3. Store items in a secure area until delivery to Owner.
   4. Transport items to storage area designated by Owner.
   5. Protect items from damage during transport and storage.

3.3 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

A. Existing Utilities to be Disconnected: Locate, identify, disconnect, and seal or cap off utilities serving buildings and structures to be demolished.
   1. Owner will arrange to shut off utilities when requested by Contractor.
   2. Arrange to shut off utilities with utility companies.
   3. If removal, relocation, or abandonment of utility services will affect adjacent occupied buildings, then provide temporary utilities that bypass buildings and structures to be demolished and that maintain continuity of service to other buildings and structures.
   4. Cut off pipe or conduit a minimum of 24 inches (610 mm) below grade. Cap, valve, or plug and seal remaining portion of pipe or conduit after bypassing according to requirements of authorities having jurisdiction.
   5. Do not start demolition work until utility disconnecting and sealing have been completed and verified in writing.

3.4 PROTECTION

A. Existing Facilities: Protect adjacent walkways, loading docks, building entries, and other building facilities during demolition operations. Maintain exits from existing buildings.

B. Temporary Shoring: Provide and maintain interior and exterior shoring, bracing, or structural support to preserve stability and prevent unexpected movement or collapse of construction being demolished.
   1. Strengthen or add new supports when required during progress of demolition.

C. Existing Utilities to Remain: Maintain utility services to remain and protect from damage during demolition operations.
   1. Do not interrupt existing utilities serving adjacent occupied or operating facilities unless authorized in writing by Owner and authorities having jurisdiction.
   2. Provide temporary services during interruptions to existing utilities, as acceptable to Owner and authorities having jurisdiction.
a. Provide at least 5 working days’ notice to occupants of affected buildings if shutdown of service is required during changeover.

D. Temporary Protection: Erect temporary protection, such as walks, fences, railings, canopies, and covered passageways, where required by authorities having jurisdiction and as indicated. Comply with requirements in Section 01 50 00 "Temporary Facilities and Controls."
   1. Protect adjacent buildings and facilities from damage due to demolition activities.
   2. Protect existing site improvements, appurtenances, and landscaping to remain.
   3. Erect a plainly visible fence around drip line of individual trees or around perimeter drip line of groups of trees to remain.
   4. Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
   5. Provide protection to ensure safe passage of people around building demolition area and to and from occupied portions of adjacent buildings and structures.
   6. Protect walls, windows, roofs, and other adjacent exterior construction that are to remain and that are exposed to building demolition operations.
   7. Erect and maintain dustproof partitions and temporary enclosures to limit dust, noise, and dirt migration to occupied portions of adjacent buildings.

E. Remove temporary barriers and protections where hazards no longer exist. Where open excavations or other hazardous conditions remain, leave temporary barriers and protections in place.

3.5 DEMOLITION, GENERAL

A. General: Demolish indicated buildings and site improvements completely. Use methods required to complete the Work within limitations of governing regulations and as follows:
   1. Locate building demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.

B. Fire Prevention and Mitigation:
   1. Contractor shall execute a Hot Work Permit prior to start of cutting torch work and identify all necessary mitigation strategies to ensure fire events do not occur.
   2. Cutting torch work shall be completed by qualified personnel trained in fire prevention and in the use of portable fire-suppression devices.
   3. Do not use cutting torches until work area is cleared of flammable materials.
   5. Maintain fire watch during and for at least 8 hours after flame-cutting operations.

C. Site Access and Temporary Controls: Conduct building demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
1. Do not close or obstruct streets, walks, walkways, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction. Provide alternate routes around closed or obstructed trafficways if required by authorities having jurisdiction.

2. Use water mist and other suitable methods to limit spread of dust and dirt. Comply with governing environmental-protection regulations. Do not use water when it may damage adjacent construction or create hazardous or objectionable conditions, such as ice, flooding, and pollution.

D. Explosives: Use of explosives is not permitted.

3.6 DEMOLITION BY MECHANICAL MEANS

A. Proceed with demolition of structural framing members systematically, from higher to lower level. Complete building demolition operations above each floor or tier before disturbing supporting members on the next lower level.

B. Remove debris from elevated portions of the building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.
   1. Remove structural framing members and lower to ground by method suitable to minimize ground impact and dust generation.

C. Below-Grade Construction:
   1. Foundation walls and other below-grade construction, or portions thereof, to be abandoned in place shall be removed down to the level designated on the Drawings.
   2. Foundation walls, and footings below grade shall be completely removed in their entirety unless otherwise indicated.

D. Empty buried tanks located within demolition area. Remove buried tanks, components, and piping from site.
   1. Test soils around buried tanks for contamination. Report results to Owner.

E. Existing Utilities:
   1. Abandon existing utilities and below-grade utility structures as designated on the Drawings.
   2. Demolish existing utilities and below-grade utility structures as designated on the Drawings.
   3. Fill voids left from demolished and abandoned utility structures with satisfactory soil materials or recycled pulverized concrete according to backfill requirements in Section 31 20 00 "Earth Moving."

F. Hydraulic Elevator Systems: Demolish and remove elevator system, including cylinder, plunger, well assembly, steel well casing and liner, oil supply lines, and tanks.
3.7  SITE RESTORATION

A. Site Grading: Uniformly rough grade area of demolished construction to a smooth surface, free from irregular surface changes. Provide a smooth transition between adjacent existing grades and new grades.

3.8  REPAIRS

A. Promptly repair damage to adjacent buildings caused by demolition operations.

3.9  DISPOSAL OF DEMOLISHED MATERIALS

A. Remove demolition waste materials from Project site and recycle or dispose of them according to Section 01 74 19 "Construction Waste Management and Disposal."
   1. Do not allow demolished materials to accumulate on-site.
   2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.

B. Do not burn demolished materials.

3.10  CLEANING

A. Clean adjacent structures and improvements of dust, dirt, and debris caused by building demolition operations. Return adjacent areas to condition existing before building demolition operations began.
   1. Clean roadways of debris caused by debris transport.

END OF SECTION
PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Demolition and removal of selected portions of building or structure.
   2. Demolition and removal of selected site elements.
   3. Salvage of existing items to be reused or recycled.

B. Related Requirements:
   1. Section 01 73 00 "Execution" for cutting and patching procedures.
   2. Section 01 35 16 "Alteration Project Procedures" for general protection and work procedures for alteration projects.
   3. Section 31 10 00 "Site Clearing" for site clearing and removal of above- and below-grade improvements not part of selective demolition.

1.2 REFERENCES

A. American National Standards Institute/American Society of Safety Engineers
   1. ANSI/ASSE A10.6: Safety Requirements for Demolition Operations

B. NFPA
   1. NFPA 241: Safeguarding Construction, Alteration, and Demolition Operations

1.3 DEFINITIONS

A. Remove: Detach items from existing construction and legally dispose of them off-site unless indicated to be removed and salvaged or removed and reinstalled.

B. Remove and Salvage: Carefully detach from existing construction, in a manner to prevent damage, and store for reuse in Project.

C. Remove and Reinstall: Detach items from existing construction, prepare for reuse, and reinstall where indicated.

D. Existing to Remain: Leave existing items that are not to be removed and that are not otherwise indicated to be salvaged or reinstalled.
1.4 MATERIALS OWNERSHIP

A. Unless otherwise indicated, demolition waste becomes property of Contractor.

B. Historic items, relics, antiques, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, and other items of interest or value to Owner that may be encountered or uncovered during demolition remain the property of Owner.
   1. Carefully salvage in a manner to prevent damage and promptly deliver to Owner.

1.5 COORDINATION

A. Arrange selective demolition schedule so as not to interfere with Owner's operations.

1.6 PREINSTALLATION MEETINGS

A. Pre-Demolition Conference: Conduct conference at Project site.
   1. Inspect and discuss condition of construction to be selectively demolished.
   2. Review structural load limitations of existing structure.
   3. Review and finalize selective demolition schedule and verify availability of materials, demolition personnel, equipment, and facilities needed to make progress and avoid delays.
   4. Review items to be salvaged and stored for re-use, and storage areas.
   5. Review requirements of work performed by other trades that rely on substrates exposed by selective demolition operations.
   6. Review areas where existing construction is to remain and requires protection.

1.7 INFORMATIONAL SUBMITTALS


B. Proposed Protection Measures: Submit report, including any diagrams, that indicates the measures proposed for protecting individuals and property, for environmental protection, for dust control, and for noise control. Indicate proposed locations and construction of barriers.

C. Schedule of Selective Demolition Activities: Indicate the following:
   1. Detailed sequence of selective demolition and removal work, with starting and ending dates for each activity.
   2. Coordination of Owner's continuing occupancy of portions of existing building and of Owner's partial occupancy of completed Work.

D. Statement of Refrigerant Recovery: Signed by refrigerant recovery technician responsible for recovering refrigerant, stating that all refrigerant that was present was recovered and that recovery was performed according to EPA regulations. Include name and address of technician and date refrigerant was recovered.
E. Landfill Records: Indicate receipt and acceptance of hazardous wastes by a landfill facility licensed to accept hazardous wastes.

1.8 QUALITY ASSURANCE

A. Refrigerant Recovery Technician Qualifications: Certified by an EPA-approved certification program.

1.9 PROJECT CONDITIONS

A. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.

B. Buildings immediately adjacent to demolition area will be occupied. Conduct building demolition so operations of occupied buildings will not be disrupted.
   1. Provide not less than 5 working days’ notice of activities that will affect operations of adjacent occupied buildings.
   2. Maintain access to existing walkways, exits, and other facilities used by occupants of adjacent buildings.
   3. Do not close or obstruct walkways, exits, or other facilities used by occupants of adjacent buildings without written permission from authorities having jurisdiction.

C. Existing conditions indicated were obtained from existing drawings furnished by Owner. Verify existing conditions and notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.

D. Hazardous Materials (Asbestos, Lead, Mold and other Hazardous Materials)
   1. SRP will provide Contractor with documentation that all materials to be disturbed have been tested and cleared for removal prior to commencement of the Work.
   2. Contractor shall post written documentation of the materials sampled, along with the results at the Project site for the duration of the Work.
   3. Contractor shall communicate to all subcontractors of the materials sampled and the laboratory results as noted in the written documentation provided by SRP.
   4. Contractor and subcontractors are responsible for notifying the Owner should they discover suspect materials or materials not documented as being previously sampled that will impact the Work. Work shall immediately cease until SRP’s Facilities Asbestos Administrator (“FAA”) has sampled the suspect materials and has provided documentation that the materials are negative and written clearance has been provided to the Contractor. The additional clearance shall be posted at the Project site.
   5. Contractor is not responsible for removal or abatement of asbestos, lead, or any remediation of mold and other hazardous materials. In the event hazardous materials are encountered, Work shall immediately cease, and SRP shall be notified immediately.
   6. SRP will engage contractors to abate hazardous material(s), and will provide air testing and documentation of clearances after removal.

SELECTIVE DEMOLITION

02 41 19 - 3

January 2023
7. Contractor and subcontractors shall not use or install any building material that contains asbestos or any other hazardous material.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.

B. Standards: Comply with ANSI/ASSE A10.6 and NFPA 241.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that utilities have been disconnected and capped before starting selective demolition operations.

B. Review record documents of existing construction provided by Owner. Owner does not guarantee that existing conditions are same as those indicated in record documents.

C. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.

D. When unanticipated mechanical, electrical, or structural elements that conflict with intended function or design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written report to Architect/Engineer and SRP Project Manager.

E. Perform an engineering survey of condition of building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during selective building demolition operations.

1. Perform surveys as the Work progresses to detect hazards resulting from selective demolition activities.

F. Steel Tendons: Locate tensioned steel tendons and include recommendations for detensioning.

G. Verify that hazardous materials have been remediated before proceeding with building demolition operations.

H. Survey of Existing Conditions: Record existing conditions by use of preconstruction photographs.
1. Inventory and record the condition of items to be removed and salvaged. Provide photographs of conditions that might be misconstrued as damage caused by salvage operations.

3.2 PREPARATION

A. Refrigerant: Before starting demolition, remove refrigerant from mechanical equipment according to 40 CFR 82 and regulations of authorities having jurisdiction.

B. Salvaged Items: Comply with the following:
   1. Clean salvaged items of dirt and demolition debris.
   2. Pack or crate items after cleaning. Identify contents of containers.
   3. Store items in a secure area until delivery to Owner.
   4. Transport items to storage area designated by Owner.
   5. Protect items from damage during transport and storage.

3.3 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

A. Existing Services/Systems to Be Removed, Removed to Source, Relocated, or Abandoned in Place: Locate, identify, disconnect, and seal or cap off indicated utility services and mechanical/electrical systems serving areas to be selectively demolished.
   1. Arrange to shut off indicated utilities with utility companies.
   2. If services/systems are required to be removed, relocated, or abandoned, provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems to other parts of building.
   3. Disconnect, demolish, and remove fire-suppression systems, plumbing, and HVAC systems, equipment, and components indicated to be removed.
      a. Piping to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining piping with same or compatible piping material.
      b. Equipment to Be Removed: Disconnect and cap services and remove equipment.
      c. Ducts to Be Removed: Remove portion of ducts indicated to be removed and plug remaining ducts with same or compatible ductwork material.

3.4 PROTECTION

A. Temporary Protection: Provide temporary barricades and protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
   1. Provide protection to ensure safe passage of people around selective demolition area and to and from occupied portions of building.
      a. Erect temporary pathways and means of egress necessary for ongoing operations compliant with Code and accessibility regulations.
      b. Provide temporary barricades and protection required to prevent injury and damage to adjacent buildings and facilities to remain.
2. Provide temporary weather protection, during interval between selective demolition of existing construction on exterior surfaces and new construction, to prevent water leakage and damage to structure and interior areas.

3. Protect walls, ceilings, floors, and other existing finish work that are to remain or that are exposed during selective demolition operations.
   a. Protect existing work which becomes exposed during demolition operations.
   b. Protect adjacent entrances from damage due to demolition activities.
   c. Protect existing improvements, appurtenances, and conditions to remain.
   d. Protect floors with covering.
   e. Protect walls, openings, roofs, and adjacent exterior construction to remain and exposed from demolition operations.

4. Cover and protect furniture, furnishings, and equipment that have not been removed.

5. Comply with requirements for temporary enclosures, dust control, heating, and cooling specified in Section 01 50 00 "Temporary Construction Facilities."

B. Temporary Partitions and Enclosures: Erect and maintain dustproof partitions and temporary enclosures to limit dust and dirt migration and to separate areas from fumes and noise.
   1. Construct dustproof partitions of not less than nominal 4-inch (100mm) studs, 5/8-inch (16mm) gypsum board with joints taped on occupied side, and 1/2 inch (13mm) fire retardant plywood on the demolition side.
   2. Insulate partition to provide noise protection to occupied areas.
   3. Seal joints and perimeter to prevent dust from migrating to occupied areas.
   4. Equip partitions with dustproof doors and security locks.
   5. Protect air handling equipment.

C. Temporary Shoring: Provide and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.
   1. Strengthen or add new supports when required during progress of selective demolition.

D. Remove temporary barricades and protections where hazards no longer exist.

3.5 SELECTIVE DEMOLITION, GENERAL

A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
   1. Proceed with selective demolition systematically, from higher to lower level. Complete selective demolition operations above each floor or tier before disturbing supporting members on the next lower level.
2. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.

3. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.

4. Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.

5. Remove structural framing members and lower to ground by method suitable to avoid free fall and to prevent ground impact or dust generation.

6. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.

B. Fire Prevention and Mitigation:

1. Contractor shall execute a Hot Work Permit prior to start of cutting torch work and identify all necessary mitigation strategies to ensure fire events do not occur.

2. Cutting torch work shall be completed by qualified personnel trained in fire prevention and in the use of portable fire-suppression devices.

3. Do not use cutting torches until work area is cleared of flammable materials.


5. Maintain fire watch during and for at least 8 hours after flame-cutting operations.


C. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.

D. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable, protected storage location during selective demolition and cleaned and reinstalled in their original locations after selective demolition operations are complete.

3.6 SELECTIVE DEMOLITION PROCEDURES FOR SPECIFIC MATERIALS

A. Concrete: Demolish in small sections. Using power-driven saw, cut concrete to a depth of at least 3/4 inch (19 mm) at junctures with construction to remain. Dislodge concrete from reinforcement at perimeter of areas being demolished, cut reinforcement, and then remove remainder of concrete. Neatly trim openings to dimensions indicated.

B. Concrete: Demolish in sections. Cut concrete full depth at junctures with construction to remain and at regular intervals using power-driven saw, and then remove concrete between saw cuts.

C. Masonry: Demolish in small sections. Cut masonry at junctures with construction to remain, using power-driven saw, and then remove masonry between saw cuts.
D. Concrete Slabs-on-Grade: Saw-cut perimeter of area to be demolished, and then break up and remove.

E. Resilient Floor Coverings: Remove floor coverings and adhesive according to recommendations in RFCI's "Recommended Work Practices for the Removal of Resilient Floor Coverings."

F. Roofing: Remove no more existing roofing than what can be covered in one day by new roofing and so that building interior remains watertight and weathertight. See applicable Division 07 Section for new roofing requirements.
   1. Remove existing roof membrane, flashings, copings, and roof accessories.
   2. Remove existing roofing system down to substrate.

3.7 DISPOSAL OF DEMOLISHED MATERIALS

A. Do not allow demolished materials to accumulate on-site.

B. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.

C. Unless specifically indicated otherwise, all demolished materials shall be placed in Owner-furnished dumpsters. Dumpsters will be removed from the site by Owner.

3.8 DISPOSAL OF DEMOLISHED EQUIPMENT

A. Use Owner provided Project-Equipment-List spreadsheet to log all demolished equipment and provide to Owner upon equipment removal.

B. Contact Owner for all hazardous equipment removal. Refer to section 01 14 00 for process.

3.9 CLEANING

A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

END OF SECTION