



Fulton County, GA

# Department of Purchasing & Contract Compliance

October 9, 2013

Re: #13ITB90025K-MH

Demolition of Building and Site Structures at 1332 Metropolitan Parkway SW Atlanta

Dear Bidders:

Attached is one (1) copy of Addendum 1, hereby made a part of the above referenced **#13ITB90025K-MH**.

Except as provided herein, all terms and conditions in the **Demolition of Building and Site Structures at 1332 Metropolitan Parkway SW Atlanta for Atlanta-Fulton Public Library System** referenced above remain unchanged and in full force and effect.

Sincerely,

*Mark Hawks*

Mark Hawks,  
Assistant Purchasing Agent

Winner 2000 - 2009 Achievement of Excellence in  
Procurement Award • National Purchasing Institute



ACKNOWLEDGEMENT OF ADDENDUM NO. 1

The undersigned proposer acknowledges receipt of this addendum by returning one (1) copy of this form with the proposal package to the Department of Purchasing & Contract Compliance, Fulton County Public Safety Building, 130 Peachtree Street, Suite 1168, Atlanta, Georgia 30303 by the ITB due date and time **Monday, October 28, 2013 at 11:00 A.M.**

This is to acknowledge receipt of Addendum No. 1, \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Legal Name of Bidder

\_\_\_\_\_  
Signature of Authorized Representative

\_\_\_\_\_  
Title

#13ITB90025K-MH

**Demolition of Building and Site Structures at 1332 Metropolitan Parkway SW  
Atlanta** for Atlanta-Fulton Public Library System  
**Addendum No. 1**

This Addendum forms a part of the contract documents and **modifies** the original ITB documents as noted below: Replace the entire Section 3 with the attached documents

<u>SECTION</u>	<u>DESCRIPTION</u>
3	Scope of Work and Technical Specifications – General Description
02111	Building Demolition
02264	Erosion Control
01-5713	Temporary Seeding
02542	Silt Fencing

## SECTION 3

### SCOPE OF WORK AND TECHNICAL SPECIFICATIONS – GENERAL DESCRIPTION

#### **Overview:**

The Demolition Contractor shall abate hazardous materials, salvage materials identified by Fulton County, demolish and remove all portions of the building at 1332 Metropolitan Parkway, including the attached slab on-grade to the north of existing building; the adjacent slab-on-grade to the east of the existing building; and retaining walls. The demolition/disturbance area shall remain at less than one (1) acre. Please reference Exhibit A, Limits of Work showing the approximate limits of work area.

The Demolition Contractor is responsible for all aspects of design, abatement of hazardous materials, salvage, utility locates, demolition, erosion control, and documentation required by local, state, or federal agencies (governing authorities) and regulations. The Demolition Contractor shall also be responsible for all demolition / salvage documentation for their scope of work relating to the LEED Certification Process. The Demolition Contractor shall coordinate with the County's Architect for the New Stewart-Lakewood library.

#### **Design / Build / Permit:**

The Demolition Contractor is responsible for all aspects of project, including any documentation required by the City of Atlanta to obtain permits and inspections. The County will not be providing any further drawings or documents than what is contained within this Invitation to Bid.

The Demolition Contractor is responsible for obtaining and paying for applicable permits, including but not limited to abatement permits, demolition permits, lane / sidewalk closure permits, and any necessary inspections.

#### **Limits of Work:**

See attached plan, Exhibit A, Limits of Work. Work area is not to exceed 1 acre. The Demolition Contractor will be responsible for providing a more detailed demolition drawing to County showing items specifically to be demolished and removed from site. Once County approves of Demolition Contractors detailed demolition drawing, Demolition Contractor will submit drawing to City of Atlanta for obtaining permit required for work.

#### **Driveways Repair / Protect:**

Use of existing curb cuts and drives is allowed. All curb cuts and drives are to remain operational after demolition (do not remove). All demolition will occur on the south side of the site and the Demolition Contractor is encouraged to access site from the south side of site. The Demolition Contractor is responsible for damage outside the limits of work defined in Exhibit A, Limits of Work. The Demolition Contractor shall repair any damaged sidewalk /curb / drives that they damage during their work. Demolition Contractor shall remove damaged concrete sidewalk / curb / drives from joint to joint and replace damaged / sections.

#### **Fencing Repair:**

Demolition activity is limited to the south side of the site where there is only a pedestrian gate. The Demolition Contractor is responsible for modifying fence, as necessary, for equipment access to site and material haul off. The Demolition Contractor shall be responsible for any

damage to the existing fence from their operations / activities and make proper repairs so that the fence is continuous after their scope of work is complete. The Demolition Contractor shall also repair any damage to existing site, as a result of their work, outside of the limits of work

**Pedestrian / Public Safety:**

The Demolition Contractor shall provide and install all safety signage, jobsite signage, temporary signage for lane / sidewalk closures, temporary protection to pedestrians outside of the limits of work, flagmen, etc. in order to ensure the safety of the public during their work. The Demolition Contractor shall maintain pedestrian access on the perimeter of the site at all times and shall provide the necessary protection to pedestrians and traffic.

**Salvage Materials:**

The following materials are to be salvaged by the Demolition Contractor from the building/limits of work, for the County's future use. These Salvaged items/materials protected and store as directed, prior to demolition of the building:

1. *Granite wall material* (full perimeter water table of building and site retaining walls located within the limits of work as shown on Exhibit A, Limits of Work and verified by the County). The granite material shall be stored in roll-off containers (with access doors), provided by the Demolition Contractor, for up to eight (8) months following the final completion of the demolition project. The roll-off containers shall be covered with a secured tarp in an on-site location determined by the County. The Demolition Contractor shall be responsible for removing the empty containers from site upon direction from Owner.
2. *Stained Glass Windows*. The Demolition Contractor shall remove, store and protect on-site, six (6) each stained glass windows from the building. The County shall identify the six (6) each stained glass windows prior to the Demolition Contractor starting the salvage operation. The Demolition Contractor shall take great care in not damaging glass or lead caning of windows. The Demolition Contractor shall protect salvaged windows, store in a secure location on-site for up to four (4) weeks, until the County can arrange for the material to be transported to another location.
3. *Front Porch White Marble Slabs at Main Entry*. The Front Porch White Marble Slabs at the existing building main entry (west elevation) shall be salvaged / removed by the Demolition Contractor. The Demolition Contractor shall remove and dispose of hand rail first (dispose of handrail) and then remove the marble slabs. The marble slabs shall be neatly stacked, by the Demolition Contractor, in a location on-site determined by the County.
4. *Balcony Wood Seats*. The Demolition Contractor shall remove, store and protect on-site, ten (10) sections of three (3) wood seats from the existing building balcony (30 total seats). The County shall identify the ten (10) sections of three (3) wood seats prior to the Demolition Contractor starting the salvage operation. The Demolition Contractor shall take great care in not chipping, scratching, or otherwise damaging the wood seat sections. The Demolition Contractor shall protect the salvaged seat sections, store in a secure location on-site for up to four (4) weeks, until the County can arrange for the material to be transported to another location.
5. *Building Dedication Stone Plaque*. The Demolition Contractor shall remove, store and protect on-site, the one (1) building dedication stone plaque on the south west corner of the building. The Demolition Contractor shall take great care in not scratching, chipping or otherwise damaging the building dedication stone plaque. The Demolition Contractor shall protect the

building dedication stone plaque, store in a secure location on-site for up to four (4) weeks, until the County can arrange for the material to be transported to another location.

6. *Light Fixtures.* The Demolition Contractor shall remove, store and protect on-site, the one (1) pendant light fixture and eight (8) surface mounted light fixtures. The County shall identify the light fixtures prior to the salvage operation commencing. The Demolition Contractor shall take great care in not scratching, chipping or otherwise damaging the light fixtures. The Demolition Contractor shall also salvage all hardware associated with the fixtures, including but not limited to, screws, bolts, nuts, plates. The Demolition Contractor shall protect the light fixtures, store in a secure location on-site for up to four (4) weeks, until the County can arrange for the material to be transported to another location.

The Demolition Contractor shall use care during the salvage process so as not to damage the materials during the process.

#### **Hazardous Materials:**

The County performed an initial Hazardous Materials Assessment, please see Exhibit B, Hazardous Materials Assessment Vacant Church Facility dated November 14, 2012. This report indicated, but not limited to, asbestos material in the existing Church Facility.

Asbestos abatement was performed; please reference Exhibit C, Asbestos Abatement and Contractor Observation Close-Out Report dated July 2013 (July 29, 2013).

Following the asbestos abatement as described in Exhibit C, sampling of roof material occurred. Please reference Exhibit D, Report of Asbestos Sampling of Roof Material dated August 9, 2013.

The Demolition Contractor shall be responsible for the proper abatement and disposal of all remaining hazardous materials located in the existing facility within the Limits of Work. The Demolition Contractor shall be responsible for complying with all permits, fees, laws, regulations, codes, etc. of the governing jurisdiction for the abatement and disposal of all remaining hazardous materials within limits of work.

All precautions are the responsibility of the Demolition Contractor.

#### **Construction Waste Management:**

This abatement, demolition and salvage activity is part of the larger redevelopment project for the whole site at 1332 Metropolitan Avenue. The development is seeking certification through the US Green Building Council LEED Green Building Rating Program. Demolished building materials must be separated and sorted for recycling. Close out documentation must include, by weight, the percentage of material diverted from landfills. The Demolition Contractor shall coordinate with the Project's LEED Administrator regarding proper documentation prior to any work taking place. Forms are available upon request from the LEED Administrator.

All costs associated with sorting, recycling, and disposal of materials shall be the Demolition Contractors responsibility.

**Erosion Control:**

Site disturbance must be less than one acre to ensure that NPDES is not required, please reference Exhibit A, Limits of Work. City of Atlanta land disturbance requirements must be implemented and inspected as required by the permit.

As indicated above in the "Design / Build / Permit" section above, it is the Demolition Contractors responsibility to provide any requested documentation on erosion control that the City of Atlanta may require. The County will not be providing any further drawings or documents than what is contained within this Invitation to Bid.

The Demolition Contractor shall be responsible for the installation and maintenance of all erosion control measures needed for the project. Maintenance for the erosion control measures shall end at time of final acceptance of the demolition project by the County.

**Schedule:**

The Demolition Contractor (Contractor) shall commence work within 5 business days of being issued the Notice to Proceed (NTP) from the County. It is anticipated that the NTP will be issued in the 4<sup>th</sup> quarter of 2013.

New building construction (separate contract and separate Construction Manager) is expected to start work in March 2014.

The Demolition Contractor shall submit a detailed schedule showing durations of activities at the time of NTP.

## SECTION 02111 - BUILDING DEMOLITION

## 1.1 GENERAL

## A. Description of Work

1. This specification covers the abatement, salvage, sorting, recycling and demolition of building and site structures (walls, slab-on-grade, footings, etc.) as indicated within the limits of demolition. Demolition and removal of materials shall be as required to support the work.

## B. Summary

1. This Section includes the following:
  - a. Demolition and removal of buildings and site improvements.
  - b. Removing below-grade construction.
  - c. Disconnecting, capping or sealing, in-place site utilities.
  - d. Salvaging items for reuse by Owner (County).
  - e. Salvaging items for use by Demolition Contractor.

## C. Definitions

1. Demolish: Completely remove and legally dispose of off-site.
2. Recycle: Recovery of demolition waste for subsequent processing in preparation for reuse.
3. Salvage: Carefully detach from existing construction, in a manner to prevent damage, and deliver to Owner ready for reuse. Include fasteners or brackets needed for reattachment elsewhere.

## D. Materials Ownership

1. Unless otherwise indicated, demolition waste becomes property of Demolition Contractor (Contractor).
2. 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. Items identified by the Owner for salvage are contained within Section 3, SCOPE OF WORK AND TECHNICAL SPECIFICATIONS – GENERAL DESCRIPTION, of this Invitation to Bid (ITB).
  - a. Carefully salvage in a manner to prevent damage and promptly return to Owner.

## E. Submittals

1. Qualification Data: For refrigerant recovery technician.
2. Proposed Protection Measures: Submit informational report, including drawings, that indicates the measures proposed for protecting individuals and property, for environmental protection, for dust control and, for noise control, as directed. Indicate proposed locations and construction of barriers.
3. Schedule of Building Abatement / Demolition Activities: Indicate the following:
  - a. Detailed sequence of abatement / demolition work, with starting and ending dates for each activity.
  - b. Temporary interruption of utility services.
  - c. Shutoff and capping or re-routing of utility services.
4. Building Demolition Plans: Drawings indicating the following:
  - a. Locations of temporary protection and means of egress for adjacent occupied buildings.
  - b. Locations of existing utilities.
  - c. Locations of sidewalk/lane closures and temporary safety signage
  - d. Erosion Control measures
  - e. Limits of disturbance / Limits of demolition indicating specific buildings and site structures to be demolished.
5. Inventory: Submit a list of items to be removed and salvaged and deliver to Owner prior to start of demolition.
6. Pre-demolition Photographs: Document existing conditions of adjoining construction and site improvements, including finish surfaces, that might be misconstrued as damage caused by building demolition operations. Submit to Owner before mobilization to the site.
7. Landfill Records: Indicate receipt and acceptance of hazardous wastes by a landfill facility licensed to accept hazardous wastes.
8. 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.

## F. Quality Assurance

1. Refrigerant Recovery Technician Qualifications: Certified by EPA-approved certification program.
2. Regulatory Requirements: Comply with governing EPA notification regulations before

beginning demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.

3. Standards: Comply with ANSI A1 0.6 and NFPA 241.
4. Pre-Abatement / Pre-demolition Conference: Conduct conference at Project site.
  - a. Inspect and discuss condition of construction to be demolished.
  - b. Review and finalize building demolition schedule and verify availability of demolition personnel, equipment, and facilities needed to make progress and avoid delays.
  - c. Review and finalize protection requirements.
  - d. Review procedures for noise control and dust control.
  - e. Review items to be salvaged and returned to Owner.
  - f. Review utility locations

#### G. Project Conditions

1. Buildings to be demolished will be vacated and their use discontinued before start of the Work.
2. Buildings surrounding the demolition area will be occupied. Conduct building demolition so operations of occupied buildings will not be disrupted.

- a. Provide not less than 72 hours' notice of activities that will affect operations of adjacent occupied buildings.
- b. Maintain access to existing walkways, exits, and other facilities used by occupants of adjacent buildings/neighborhood.

1.) Do not close or obstruct walkways, exits, or other facilities used by occupants of adjacent buildings without written permission from authorities having jurisdiction.

2. Owner assumes no responsibility for buildings and structures to be demolished.
  - a. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
  - b. Before building demolition, the Demolition Contractor will remove/salvage certain items, as directed by the Owner.
3. Hazardous Materials: It is expected that hazardous materials will be encountered in the Work. Please see attached reports; Exhibits B, C and D of this ITB.
  - a. The remaining hazardous materials will be removed by the Demolition Contractor before start of the Work.
  - b. If materials suspected of containing hazardous materials are encountered (that are not identified in reports contained in Exhibits B and D of this ITB, do not disturb; immediately notify the Owner.

#### H. Coordination

1. Arrange demolition schedule so as not to interfere with operations of adjacent occupied buildings.
2. Coordinate all closeout documentation for the LEED Certification with the projects LEED Administrator.

### 1.2 PRODUCTS

This section not used.

### 1.3 EXECUTION

#### A. Examination

1. Verify that utilities have been disconnected and capped before starting demolition operations. Contractor is required to perform utility locates prior to starting work.
2. Review Project Record Documents of survey provided by Owner. Owner does not guarantee that existing conditions are same as those indicated in Project Record Documents.
3. 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
4. Verify that hazardous materials have been remediated before proceeding with material salvage or building demolition operations.

#### B. Preparation

1. Refrigerant: Remove refrigerant from mechanical equipment according to 40 CFR 82 and regulations of authorities having jurisdiction before starting demolition.
2. Existing Utilities: Locate, identify, disconnect, and seal or cap off indicated utilities serving buildings

and structures to be demolished.

- a. Arrange to shut off indicated utilities with utility companies.
  - b. 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.
  - c. Cut off pipe or conduit at vaults, boxes located on site. Cap, valve, or plug and seal remaining portion of pipe or conduit after bypassing according to requirements of authorities having jurisdiction.
4. 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.
    - a. Strengthen or add new supports when required during progress of demolition.
  4. Salvaged Items: Comply with the following:
    - a. Clean salvaged items of dirt and demolition debris.
    - b. Pack or crate items after cleaning. Identify contents of containers.
    - c. Store items in a secure area until delivery to Owner.
    - d. Transport items to storage area designated by Owner OR as directed.
    - e. Protect items from damage during transport and storage.
- C. Protection
1. Existing Facilities: Protect adjacent walkways, loading docks, building entries, and other building facilities during demolition operations. Maintain exits from existing buildings.
  2. Existing Utilities: Maintain utility services to remain and protect from damage during demolition operations.
    - a. Do not interrupt existing utilities serving adjacent occupied or operating facilities unless authorized in writing by Owner and authorities having jurisdiction.
    - b. Provide temporary services during interruptions to existing utilities, as acceptable to Owner and authorities having jurisdiction.
      - 1) Provide at least 72 hours' notice to occupants of affected buildings if shutdown of service is required during changeover.
  3. Temporary Protection: Erect temporary protection, such as walks, fences, railings, canopies, and covered passageways, where required by authorities having jurisdiction, and as indicated.
    - a. Protect adjacent buildings and facilities from damage due to demolition activities.
    - b. Protect existing site improvements, appurtenances, and landscaping to remain.
    - c. Erect a plainly visible fence around drip line of individual trees or around perimeter drip line of groups of trees to remain.
    - d. Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
    - e. Provide protection to ensure safe passage of people around building demolition area and to and from occupied portions of adjacent buildings and structures.
    - f. Protect walls, windows, roofs, and other adjacent exterior construction that are to remain and that are exposed to building demolition operations.
    - g. Erect and maintain dustproof partitions and temporary enclosures to limit dust, noise, and dirt migration to occupied portions of adjacent buildings.
  4. 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.
- D. Demolition, General
1. General: Demolish indicated existing buildings and site improvements completely. Use methods required to complete the Work within limitations of governing regulations and as follows:
    - a. Do not use cutting torches until work area is cleared of flammable materials. Maintain portable fire-suppression devices during flame-cutting operations.
    - b. Maintain fire watch during and for at least Eight (8) hours after flame cutting operations.
    - c. Maintain adequate ventilation when using cutting torches.
    - d. Locate building demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
  2. Engineering Surveys: During demolition, perform surveys to detect hazards that may result from building demolition activities.
  3. 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.
    - a. 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 traffic ways if required by authorities having jurisdiction.

- b. 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.
  4. Explosives: Use of explosives is not permitted, unless directed otherwise.
- E. Demolition By Mechanical Means
1. 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.
  2. 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.
    - a. Remove structural framing members and lower to ground by method suitable to minimize ground impact and dust generation.
  3. Salvage: Items to be salvaged are indicated in Section 3 as directed.
  4. Below-Grade Construction: Demolish foundation walls and other below-grade construction that are within footprint of new construction and extending 5 feet (1.5 m) outside footprint indicated for new construction. Abandon below-grade construction outside this area.
    - a. Remove below-grade construction, including basements, foundation walls, and footings, Completely, as directed.
  5. Existing Utilities: Demolish and remove existing utilities and below-grade utility structures.
    - a. Piping: Disconnect piping at unions, flanges, valves, or fittings.
    - b. Wiring Ducts: Disassemble into unit lengths and remove plug-in and disconnecting devices.
- F. Demolition By Explosives - ONLY IF APPROVED IN WRITING BY OWNER IN ADVANCE OF WORK.
1. Explosives: Perform explosive demolition according to governing regulations.

Obtain written permission from authorities having jurisdiction before bringing explosives to, or using explosives on, Project site.

- a. Do not damage adjacent structures, property, or site improvements when using explosives. Comply with recommendation in Explosives Consultant's report.
- G. Areas: Rough grade below-grade areas ready for further excavation or new Areas: below-grade areas and voids resulting from building demolition operations.
- 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.

H. Repairs

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

1. Disposal of Demolished Materials

1. Remove demolition waste materials from Project site and legally dispose of them in an EPA-approved landfill acceptable to authorities having jurisdiction.
  - a. Do not allow demolished materials to accumulate on-site.
  - b. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
3. Do not burn demolished materials.

J. Cleaning

1. 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.

END OF SECTION 02111

## SECTION 02264 – EROSION CONTROL

### 1.1 GENERAL

#### A. Description of Work

1. This specification covers the furnishing and installation of materials of providing, maintaining and removing temporary erosion and sedimentation controls as necessary.

#### B. Summary

1. This Section includes the following:
  - a. Grassing, mulching, netting and watering and reseeding on-site surfaces and spoil and borrow area surfaces.
  - b. Providing interceptor ditches at ends of berms and at those locations which will ensure that erosion during Demolition will be either eliminated or maintained within acceptable limits as established by the Owner, City and State.
  - c. Temporary sedimentation controls include, but are not limited to, silt fencing, silt dams, traps, barriers and appurtenances at the foot of sloped surfaces which will ensure that sedimentation pollution will be either eliminated or maintained.
  - d. Provide effective temporary erosion and sediment control measures during demolition or until final controls become effective.
  - e. Erosion, Sedimentation and Pollution Control shall be performed in accordance with and as detailed in the drawings.

### 1.2 WORK SPECIFIED IN OTHER SECTIONS

- A. Reference Documents
- B. Seeding: Section 02486
- C. Silt Fence: Section 02542
- D. Building Demolition: Section 02111

### 1.3 REFERENCE DOCUMENTS

- A. Georgia Building Code
- B. Any soil erosion and sediment control ordinance in force by the local Government or governing jurisdiction.
- C. State of Georgia Department of Transportation, Standard Specifications

## 2.0 PRODUCTS

### 2.1 Erosion Control

- A. Seeding.
- B. Sodding.
- C. Netting or Mesh Materials:
  1. Seeding.
  2. Sodding
  3. Netting or Mesh Materials:
    - a. Jute Mesh: Fed. Spec. CCC-C-467
    - b. Plastic Mesh: Manufacturer's recommendation.
    - c. Plastic Netting: Manufacturer's recommendation.

- d. Polypropylene Mesh: Manufacturer's recommendation.
- e. Woven Fabric Fence: EPA specifications.

### 3.0 EXECUTION

#### A. Erosion Control

1. Minimum procedures for grassing are:
  - a. Scarify slopes to a depth of not less than 6" and remove large clods, rock, stumps, roots larger than 1/2" in diameter and debris.
  - b. Sow seed within 24 hours after the ground is scarified with either mechanical seed drills or rotary hand seeders.
  - c. Apply mulch loosely and to a thickness of between 3/4" and 1-1/2".
  - d. Apply netting over mulched areas of sloped surfaces.
  - e. Roll and water seeded areas in a manner which will encourage sprouting of seeds and growing of grass. Reseed areas which exhibit un-satisfactory growth. Backfill and seed eroded areas.

#### B. Sedimentation Control

1. Install and maintain silt fencing, silt dams, traps, barriers and appurtenances as shown on the approved descriptions and working drawings. Hay bales which deteriorate and filter stone which is dislodged shall be replaced.

#### C. Performance

1. Should any of the temporary erosion and sediment control measures employed fail to produce results which comply with the requirements of the State or governing authority, immediately take whatever steps are necessary to correct the deficiency.
2. Maintain erosion control until final inspection approval is received from governing authority.

END OF SECTION 02264

SECTION 01-5713 –  
TEMPORARY SEEDING

1.1 GENERAL

A. Description of Work

1. The Contractor shall furnish all labor, materials, equipment and incidentals necessary and place seed and maintain all seeded areas as shown on the Drawings and as specified herein including all area disturbed by the Contractor's operations.

2.0 PRODUCTS

2.1 Materials

- A. Fertilizer shall be a complete commercial fertilizer. It shall be delivered to the site in the original unopened containers each showing the Manufacturer's guaranteed analysis. Store fertilizer so that when used it shall be dry and free flowing.
- B. Seed shall be from the same or previous year's crop, each variety of seed shall have a percentage of germination of not less than 90 percent, a purity of not less than 85 and shall have not more than one percent weed content.
- C. The mixture for lawn areas shall consist of seed proportioned by weight as indicated on the drawings.
- D. Seed shall be delivered in sealed container bearing the dealer's guaranteed analysis.

3.0 EXECUTION

A. Application

1. Fertilizer shall be applied at the rate as shown per the drawings.

B. Installation

1. The sub grade of all areas to be seeded shall be raked and all rubbish, sticks, roots and stones larger than 2 inches shall be removed.
2. When hydraulic seeder is used, seedbed preparation is not required.
3. Fertilizer shall be uniformly spread and immediately mixed with the upper 2 inches of the soil.
4. Immediately following this presentation the seed shall be uniformly applied and lightly raked into the surface. Lightly roll the surface and water with a fine spray. Seed shall be sown in a favorable season, as approved by the Owner's representative.
5. The Contractor shall keep all seeded areas watered and in good condition, if and when necessary until a good, healthy, uniform growth is established over the entire area seeded, and shall maintain these areas in an approved condition until final acceptance of the Contract. The Contractor shall ensure that all areas that have been seeding do have sufficient growth
6. On slopes, the Contractor shall provide against washouts. Any washout which occurs shall be re-graded and re-seeded at the Contractor's expense until good temporary seeding is established, even after final acceptance.

END OF SECTION 01-5713

## SECTION 02542 – SILT FENCE

## 1.1 GENERAL

## A. Description of Work

1. The work covered by this Section consists of furnishing all materials, equipment, and labor and performing all operations in connection with the construction for the Silt Fence System in accordance with the governing jurisdiction requirements.
2. The surfaces to be protected shall be prepared and graded to the extent that they are normally stable in the absence of erosion forces. All stones, roots and other waste material exposed on the slopes which could disturb the finished mat profile shall be removed. The fabric shall be positioned over these surfaces.

## 1.2 QUALIFICATIONS

- A. Installation shall be by an experienced applicator approved by the manufacturer of the material supplied.
- B. Applicator shall have a minimum of one year experience.
- C. Submit written proof of qualifications to the Engineer of Record, Governing Jurisdiction and Owner.
- D. The woven fiber filter and appurtenances specified under this Section shall be furnished by a manufacturer who is fully experienced, and qualified in the manufacture of the fabric furnished. The woven fiber filter and all related appurtenances shall be designed, constructed and installed with the best practices and methods.
- E. The woven fiber filter and appurtenances shall be manufactured by Cartage Mills, Cincinnati, Ohio, Staff Industries, Inc., Upper Montclair, or approved equal.

## 1.3 SUBMITTALS

- A. Final acceptance of fabric shall be contingent upon approval of samples.
- B. Furnish an affidavit that all materials comply with these Specification requirements.

## 1.4 SUBMITTALS

- A. Final acceptance of fabric shall be contingent upon approval of samples.
- B. Furnish an affidavit that all materials comply with these Specification requirements.

## 1.5 DELIVERY AND STORAGE

- A. Prevent damage during delivery and handling.
- B. Store all fabric in undamaged condition as packaged by the manufacturer, with manufacturer's seals and labels intact.
- C. Store all materials in a clean, dry storage area.
- D. Do not store fabric in an upright position.
- E. Storage area temperature shall be maintained above 40 degrees F. with normal humidity.

2.0 PRODUCTS

2.1 FABRIC

- A. The filter fabric shall be designed to control water seepage of the fine particle and or soil without clogging under varying water flow conditions, thereby serving as a soil stabilizer.
- B. The filter fabric shall be chemically resistant to prolonged exposure to fresh water an either alkaline or acidic soil conditions.

C. Physical Properties:

<ul style="list-style-type: none"> <li>1. Color</li> <li>2. Weight, oz./sq. ft.</li> <li>3. Equivalent Opening Size</li> <li>4. Percent Open Area</li> <li>5. Tensile Strength</li> <li>6. Elongation Percent</li> <li>7. Trapezoidal Tear Strength</li> <li>8. Mullen Burst, PSI</li> <li>9. Puncture Strength, lbs.</li> <li>10. Abrasion Resistance Abraded Strength. Lbs.</li> <li>11. Weather-Ometer Strength Retention Percent</li> <li>12. Water Permeability, water flow rates, milliliters/min. (note 1) <ul style="list-style-type: none"> <li>6 inches head</li> <li>8 inches head</li> <li>36 inches head</li> </ul> </li> </ul>	<p>Test Method:</p> <ul style="list-style-type: none"> <li>Black</li> <li>0.8 ASTM D-1910</li> <li>70-1—CE-131-</li> <li>4-10 CE-1310</li> <li>400 x 280 ASTM D-1682</li> <li>34 x 32 ASTM D-1682</li> <li>92 x 40 ASTM D-2263</li> <li>510 ASTM D-751</li> <li>150 ASTM D-751-M</li> <li>ASTM D-01175-71</li> <li>80 ASTM D-1682</li> <li>90 ASTM E-42-69</li> <li>460-520 Canvas Products</li> <li>620-760 Assn. International</li> <li>2510-2790 Test Method</li> </ul>
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Note No. 1: Water flow perpendicular to face of fabric.

- D. The upper level of the fabric from work edges shall be structured so as to accommodate the type of anchorage to be utilized at that point.
- E. Individual mill-width panels shall be cut to suitable lengths, and the two layers of fabric separately jointed, edge-to-edge, by means of heavy, double-stiched nylon thread. The tensile strength of stiched joints shall not be less than 100 lbs/inch.

3.0 EXECUTION

A. INSTALLATION

- 1. Installation instruction shall be supplied by the manufacturer. The fabric shall be applied in accordance with the manufacture's recommendations.
- B. Maintain silt fence until approved final inspection received from governing authority.

END OF SECTION 02542