



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Solicitation

NUMBER
DEFK13007

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
TARA LYLE 304-558-2544

VENDOR

RFQ COPY
 TYPE NAME/ADDRESS HERE

SHIP TO

DIV ENGINEERING & FACILITIES
 ARMORY BOARD SECTION

 1707 COONSKIN DRIVE
 CHARLESTON, WV
 25311-1099 304-341-6368

DATE PRINTED
01/23/2013

BID OPENING DATE: 02/07/2013 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 3						
SEE ATTACHED PAGES.						
END OF ADDENDUM NO. 3						
0001		JB		968-20		
	1			BUILDING CONSTRUCTION		
***** THIS IS THE END OF RFQ DEFK13007 ***** TOTAL:						_____

SIGNATURE		TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE	

WHEN RESPONDING TO SOLICITATION, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

SOLICITATION NUMBER: DEFK13007
Addendum Number: 3

The purpose of this addendum is to modify the solicitation identified as DEFK13007 ("Solicitation") to reflect the change(s) identified and described below.

Applicable Addendum Category:

- Modify bid opening date and time
- Modify specifications of product or service being sought
- Attachment of vendor questions and responses
- Attachment of pre-bid sign-in sheet
- Correction of error
- Other

Description of Modification to Solicitation: To provide architect changes to the specifications, revised bid form and revised drawings (C2.0 – Layout Plan and Road Profile, C3.0 – Grading, Drainage & Storm Profile, and C5.3 – Electric & Communications Details).

Electronic PDF files of the revised drawings will be available on the Purchasing Bulletin. If vendors do not have access to the WV Purchasing Bulletin, an electronic copy may be requested by sending an email request to the following address: Tara.L.Lyle@wv.gov. The bid opening remains on 02/07/2013 at 1:30 pm.

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

ATTACHMENT A

1. Changes to specifications attached – Exhibit 1
2. Revised bid form attached – Exhibit 2
3. Revised drawings attached – Exhibit 3

Drawings include:

C2.0 – Layout Plan and Road Profile
C3.0 – Grading, Drainage & Storm Profile
C5.3 – Electric & Communications Details

4. The bid opening remains 02/07/2013 at 1:30 pm.

ADDENDUM NO. 3

RE: Access Control Point For
Joint Interagency Training and Education Center #540205
West Virginia Army National Guard
Camp Dawson, West Virginia

TO: Prospective Bidders

FROM: AECOM Design

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents.

**ATTACH THIS ADDENDUM TO THE FRONT COVER OF THE PROJECT MANUAL AND
ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED ON THE BID FORM.**

PART 1 - CHANGES TO SPECIFICATIONS

- A. REPLACE Bid Form Section II dated 09/24/12 with replacement Bid Form Section II dated 01/18/13 as attached to this Addendum.
 - 1. Bid Item No. 35 Security Fencing – Quantity revised to 50 Linear Feet.
 - 2. Bid Item No. 36 Double Swing Gate – Width revised to 36 feet.
- B. REPLACE Bid Form Section III dated 09/24/12 with replacement Bid Form Section III dated 01/18/13 as attached to this Addendum.
 - 1. Bid Item No. 36 Double Swing Gate – Width revised to 36 feet.
- C. REPLACE Section 00900 Special Conditions dated September 24, 2012 with replacement Section 00900 Special Conditions dated January 18, 2013 as attached to this Addendum.
 - 1. Contract Duration period revised as indicated.
- D. REPLACE section 01 11 00 Summary dated September 24, 2013 with replacement section 01 11 00 Summary dated January 18, 2013 as attached to this Addendum.
 - 1. Paragraph 1.3.A – Time periods revised as indicated.

PART 2 - CHANGES TO DRAWINGS

A. Refer to the following Drawings with revisions dated January 18, 2013 as attached to this Addendum:

1. C2.0 "Layout Plan and Road Profile" – Relocated entrance gate, fencing, and size of gate.
2. C3.0 "Grading, Drainage and Storm Profile" – Added spots at gate, and expanded grading area.
3. C5.3 "Electric and Communications Details" – Added inner duct sleeving.

Attachments:	Section 00900 Special Conditions dated January 18, 2013	1 page
	Section 01 11 00 Summary dated January 18, 2013	24 pages
	Bid Form Section II dated 01/18/13	pages 5, 6, & 7
	Bid Form Section III dated 01/18/13	pages 8 - 30
	Drawing No. C2.0 "Layout Plan and Road Profile"	
	Drawing No. C3.0 "Grading, Drainage, and Storm Profile"	
	Drawing No. C5.3 "Electric and Communications Details"	

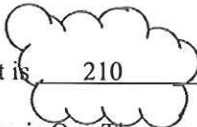

End Of Addendum


EXHIBIT 1

DOCUMENT 00900 - SPECIAL CONDITIONS

The following special conditions modify the "General Conditions of the Contract for Construction," AIA Document A201 - 2007 and the State Of West Virginia Supplementary Conditions to AIA Document A201, 2007 Edition. Where any portion of the General and Supplementary Conditions is modified or deleted by these Special Conditions, the unaltered portions of those same General and Supplementary Conditions shall remain in effect.

Add the following Paragraph 9.11.3 to Article 9.11 "Liquidated Damages" as follows:

9.11.3 Duration of the contract is  210  days from the NTP with milestones.

- a. Liquidated Damages is One Thousand Two Hundred Dollars (\$1,200.00) per day plus one time fixed cost of One Thousand Dollars (\$1,000.00) for Staff Judge Advocate Review. Per Article 9.11.1 Supplemental General Provisions and GP 54,"Liquidated Damages".
- b. Additional liquidated damages  will be assessed for Alternate Bid No. 1 (ACP Canopy) based upon substantial completion at 210 calendar days from start of work for this Alternate Bid Item. Liquidated Damages for Alternate Bid No. 1 is One Thousand Two Hundred Dollars (\$1,200.00) per day plus one time fixed cost of One Thousand Dollars (\$1,000.00) for Staff Judge Advocate Review. Per Article 9.11.1 Supplemental General Provisions and GP 54,"Liquidated Damages".

END OF DOCUMENT

SECTION 01 11 00

SUMMARY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, and other Division 1 Specification Sections, apply to this Section.

1.2 PROJECT DESCRIPTION

- A. The Access Control Point (ACP) Facility for the Joint Interagency Training Education Center (JITEC) is a 710+- square foot one-story cast in place concrete building including site improvements to replace an existing aging ACP facility at the West Virginia Army National Guard (WVARNG) facility at the North Gate to Camp Dawson, West Virginia. Camp Dawson is approximately 25 miles south of Interstate 68 and close to the City of Kingwood in the northeast corner of the State. Camp Dawson straddles both sides of the Cheat River and is encompasses 1,500+- acres. This is an active military post. The portion of Camp Dawson on which the new ACP is to be built is located in a valley bound by hills either side of the river and occupies a site approximately 500+- acres on the east bank of the Cheat River. The new ACP site is located at the north entrance to Camp Dawson
- B. Other projects at Camp Dawson include, but are not limited to the following:
1. Joint Interagency and Training Center (JITEC):
 - New Billeting Addition
 - New Operations Center (OPS)
 - Extensive Site Work, Utilities Upgrades and Landscaping
 2. The existing RTI shall remain operational during the construction of the above components and this new ACP contract. It is critical for daily functioning of Camp Dawson that the existing RTI remain operational while the new above referenced projects and the new ACP are constructed. Power and utility interruptions at Camp Dawson shall be kept to a minimum, shall be planned ahead, scheduled and coordinated through the WVARNG before such interruptions occur.
 3. The above referenced projects are multi year construction tasks and the Contractor for the new ACP is to coordinate construction operations with these ongoing construction projects.
- C. A Camp Dawson security guard shall be present at the Temporary ACP Entrance for the duration of the new ACP construction. The Camp Dawson security guard shall be on duty every work day. The Camp Dawson guard's duties include monitoring and logging all construction personnel, equipment and deliveries entering Camp Dawson including those for the new ACP.

- D. The new ACP Contractor shall use the Temporary ACP Entrance at all times
- E. The new ACP Contractor shall provide the Camp Dawson security guard at the Temporary ACP Entrance a daily manifest identifying deliveries to the site and a list of subcontractors and Contractor's personnel.

1.3 PROJECT REQUIREMENTS

- A. The work described in the contract documents including base bid and alternates accepted by the Owner will be substantially complete (or ready for beneficial occupancy) in 190 days. The project will be ready for occupancy and use no later than 210 calendar days from Notice to Proceed. Liquidated damages will be assessed from the substantial completion milestone.
- B. The Contractor will incorporate the following milestones and phasing requirements into the contract.
 1. Submit a detailed construction plan. Deviations to the milestone requirements or phasing shall be submitted to the Administrative Contracting Officer and Architect for approval. The detailed construction plan with milestones shall be submitted within Thirty (30) calendar days from Notice to Proceed.
 1. Site phasing: The Bidder shall develop a phasing plan and coordinate the work in a manner that maintains government access to the site and all buildings throughout the duration of the project. The new ACP Contractor shall coordinate the phasing plan and construction schedule with the other contractors.
 2. Minimum site phasing requirements are as follows:
 - a. Two existing utilities (telephone and cable TV) must be relocated prior to grading operations or installation of the aggregate piers.
 - b. Prior to removal of any barrier, fencing or gates, a temporary or permanent security fence and gate must be installed and approved by the COTR. Camp Dawson perimeter security must be maintained at all times.
 - c. Rough grading and excavation required for the project shall take place during the months of May to October to take advantage of weather conditions. Bulk excavation outside of these months might produce unsatisfactory soils conditions.
 - d. Refer to Specification Section 31 20 00 "Earth Moving" Paragraph 3.4.A. If the Contractor proposes to perform bulk excavation outside this period, then the Contractor will propose mitigation measures at no cost to the government for bad weather or unsatisfactory soil conditions.
 - e. Traffic must be maintained during milling and asphalt overlay operations in and around the Temporary ACP unless Camp Dawson operations approves closing the gate for a short period of time and using the East Gate for all traffic in and out of post. The decision to close this area and use the alternate gate would depend on the anticipate operations tempo at the time of the proposed closure.

1.4 SUMMARY

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- B. This Section includes the following:
 - 1. Scope
 - 2. Work covered by the Contract Documents.
 - 3. Type of Contract
 - 4. Work under other contracts.
 - 5. Government-furnished products.
 - 6. Use of premises.
 - 7. Government's occupancy requirements.
 - 8. Work restrictions.
 - 9. Correlation of Drawings, Specifications and Contracts
 - 10. Specification formats and conventions.
 - 11. Reporting of Error and Discrepancies
 - 12. Standards of Manufacturer
 - 13. Meaning of Approved, Directed, Etc.
 - 14. Misplaced Materials
 - 15. Material Testing by National Laboratories
 - 16. Keys
 - 17. Construction Scheduling, Work Progress and Preparation of Progress Schedules and Reports
 - 18. Safety Assurance
 - 19. Quality Control/Tests
 - 20. Requests for Information (RFI)
 - 21. Dust Barriers
 - 22. Site Restoration
 - 23. Layout and Grades
 - 24. Refuse and Salvage Materials
 - 25. Temporary Field Offices
 - 26. Utility Interruptions
 - 27. Compressed Air
 - 28. Weather Protection and Temporary Heating
 - 29. Work by Government
 - 30. Regulations
 - 31. Environmental Impact
 - 32. Environmental Protection
 - 33. Identification of Vehicles and Personnel
 - 34. Demonstrations, Commissioning, and Testing
 - 35. Spare Materials/Parts
 - 36. Fire Protection
 - 37. Severe Weather Warning Requirements
 - 38. Sediment and Erosion Control
 - 39. AT/FP Requirements
 - 40. Warranty.
 - 41. Extended Manufacturer Warranties.

C. Related Sections include the following:

1. Division 1 Section "Temporary Facilities and Controls" for limitations and procedures governing temporary use of Government's facilities.
2. Solicitation and Contract requirements furnished by Government, including applicable Federal Acquisition Regulations.

1.5 SCOPE

- A. The Contractor will be held responsible for all requirements described in the contract documents and task order documents and all work including that of his Sub-contractor, if any, shall be done in accordance with the contract documents and/or task order documents. Failure to familiarize himself with their requirements will not relieve the Contractor of his responsibility to comply.
- B. The organization of the specifications into divisions, sections, and articles, and the arrangement of the drawings shall not control the Contractor in dividing the work among Sub-contractors or in establishing the extent of the work to be performed by any trade.

1.6 WORK COVERED BY CONTRACT DOCUMENTS

A. Project Identification:

1. New Access Control Point (ACP) Facility For The Joint Interagency Training And Education Center, Camp Dawson, Kingwood, West Virginia.

B. Government:

1. Government's Representative: To be identified after Award.

C. Architect: To be identified at the Preconstruction Meeting.

D. The Work consists of all construction as shown and specified.

1. Include all site demolition, preparation/grading, and construction of the new facilities as designated on the drawings with the applicable selected Alternates. Alternates are indicated on the drawings and in Section 01 00 30 Alternates.

1.7 TYPE OF CONTRACT

- A. Single Prime Construction Contract.

1.8 WORK UNDER OTHER CONTRACTS

- A. General: Cooperate fully with separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying work under this Contract. Activities in the vicinity of this project may be kept in full or partial operation during construction.

- B. The Contractor shall coordinate with the Administrative Contracting Officer and schedule construction activities. Coordinate the Work of this Contract with work performed under separate contracts.

1.9 GOVERNMENT-FURNISHED PRODUCTS

- A. Government will furnish products indicated on the construction documents. The Work includes providing support systems to receive Government's equipment and making structural, plumbing, mechanical, and electrical connections.
1. Government will arrange for and deliver Shop Drawings, Product Data, and Samples to Contractor for Government-furnished, Contractor-installed products.
 2. Government will arrange and pay for delivery of Government-furnished items according to Contractor's Construction Schedule.
 3. After delivery, Government will inspect delivered items for damage.
 4. If Government-furnished items are damaged, defective, or missing, Government will arrange for replacement.
 5. Government will arrange for manufacturer's field services and for delivery of manufacturer's warranties to Contractor.
 6. Contractor shall review Shop Drawings, Product Data, and Samples and return them to Administrative Contracting Officer's Technical Representative (COTR) noting discrepancies or anticipated problems in use of product.
 7. Where equipment is Government-furnished and Government-installed, Government will coordinate with Contractor any required backing, or utilities connections for the Government-furnished equipment.

1.10 USE OF PREMISES

- A. General: Contractor shall have access to the base for construction operations, including full use of Project site, during construction period. Contractor's use of premises is limited only by Government's right to perform work or to retain other contractors on portions of Project.
1. General: Contractor shall have limited use of the base for construction operations as indicated on Drawings by the Contract limits. Limits: Confine constructions operations to project limits as indicated on the Drawings.
 2. Government Occupancy: Allow for Government occupancy of Project site.
 3. Entry to Base/Access to Site:
 - a. Locations to be serviced by the resulting contracts include posts and bases that are "closed" to the public, pursuant to Sec 21, Internal Security Act of 1950, 50 U.S.C. 797 and, as such, only those persons granted permission may enter. It is, therefore, required that control be exercised over Contractor personnel while working on the Base. To maintain this control, a listing of all Contractor personnel who will be working under the contract, must be submitted to the Administrative Contracting Officer prior to the start of work under the contract. The preferred method of providing this list is via email, to the contract administrator, unless notified otherwise.

- 1) The listing shall include, but not limited to: contract number, project number, employee name, and the estimated starting and ending date of each employee. Subsequent listings of all additions or deletions will be submitted as employees are hired or released.
- b. During construction, the Contractor shall permit base personnel access to the facilities within the work area. The Contractor shall provide protection to persons and property throughout the progress of the work.
 - c. In the event of a declared National Emergency the Administrative Contracting Officer may be required to stop work on this contract for security reasons. Contractor shall ensure the Administrative Contracting Officer has a current "Off Duty" contact name and telephone number at all times to facilitate notification.
 - d. The Contractor shall be responsible for compliance with all regulations and orders of the Commanding Officer of the Military Installation, respecting identification of employees, movements on installation, parking, truck entry, and all other military regulations, which may affect the work. Special requirements will be identified in the statement of work for an individual task order.
 - e. The work under this Contract will be performed at an operating Military Installation with consequent restrictions on entry and movement of nonmilitary personnel and equipment.
 - f. The Military Installation has specific requirements, which will be identified at the Preconstruction Conference.
 - g. The Contractor shall inform all personnel working under his jurisdiction (including sub-contractor and visiting supplier personnel) that access to areas outside of the immediate work area excluding, direct haul and access routes, contracting and COR and point of supply and storage is prohibited. Circulation of said personnel will be limited to official business only. Persons in violation of the above may be apprehended and turned over to the appropriate authorities.
 - h. The Contractor shall obtain authorization/application for Visitor/Vehicle Pass from the Administrative Contracting Officer or Administrative Contracting Officer's Technical Representative (COTR). It will be the responsibility of the contractor to provide and consolidate accurate pass requests for all contractor personnel and subcontractor personnel for coordination with the Administrative Contracting Officer/ or Administrative Contracting Officer' Technical Representative to allow for passes. Contractor will be responsible for the timely processing of all approved pass requests. On the last workday of the contractor's visit, the Visitor/Vehicle Pass will be turned into the Security Division for proper disposal.
4. Driveways and Entrances: Keep driveways loading areas, and entrances serving premises clear and available to Government, Government's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials.
 - a. Schedule deliveries to minimize use of driveways and entrances.
 - b. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.
- B. Base Regulations: The Contractor shall conform to all Base Regulations and directives pertaining to security, safety, traffic, fire, and personnel clearances, insofar as they pertain to the Contractor's activities on Project Site. The Contractor shall be responsible for providing and placing all barricades, lighting, and safety devices during any of his activities.

C. Crane Usage: All construction work in this project shall be accomplished with extreme care with regard to the operation of aircraft.

1. Close cooperation and coordination between the Airfield Operations Officer, the Contractor, the Administrative Contracting Officer and the COTR is mandatory. Approved Equipment shall be parked in an area designated by the Administrative Contracting Officer or Administrative Contracting Officer Technical Representative.

D. Security Requirements

1. The Contractor shall be aware of applicable security requirement and comply with said requirement while working on the base. These requirements will be made available from the base Security Officer through the Administrative Contracting Officer/COR.
2. Reserved
3. Temporary Work Area and Temporary Fencing
 - a. There will be an enclosure of the entire construction site with a temporary security fence. Access to this area shall be coordinated with the contractor for the ongoing construction. This area will be secured at all times and under the control of the Owner.

E. Protection of Property: Any damage or theft caused directly or indirectly to Government or private property on the base by the Contractor's operations shall be repaired or replaced by the Contractor to the satisfaction of the Administrative Contracting Officer or the COTR at no additional cost to the Government.

F. Storage: The Contractor shall store or place materials and equipment only in areas specifically approved by the Administrative Contracting Officer or the COTR.

G. Work Operations:

1. The work to be performed under this contract is on an active Base. The Contractor shall coordinate work operations with the COTR prior to starting work under this contract. The Contractor shall have a superintendent who speaks, reads, writes and understands the English language to act for the Contractor and to be available on the job site throughout each workday.

H. Daily Report to Inspector

1. When work commences, a signed daily report shall be submitted to the Administrative Contracting Officer and COTR by 10:00 A.M. on the working day following the day the work was performed. The daily report format shall be at the discretion of the Contractor.

I. Inspection of Site

1. The Contractor shall be responsible for the complete coordination and proper relation of the work of all trades.
2. No allowances or extra construction on behalf of any Contractor will be permitted subsequently by reason of error or oversight on the part of the sub-contractor, or on account of interferences by the activities of the owner or others. -

3. All dimensions shown on the drawings are based on "as-built" record drawings and, to the extent possible, accurately represent existing conditions; however, there may be some variance between existing conditions and contract drawings. The Contractor is responsible for verifying all dimensions and for reporting to the Administrative Contracting Officer any discrepancies that may affect performance of the work represented by contract drawings and specifications. -

J. Truck Hauling on Base: The Contractor shall be responsible for covering open-bodied vehicles transporting sand, gravel, fill materials, dirt, construction debris, rubble, or other material which may become airborne and create air pollution on Base. Alternate means, approved by the COTR, may be employed to achieve the same results as would coverings.

K. Availability and Use of Utility Services: The contractor shall install and pay for his/her own water, and electricity for the duration of the project. The location (s) of the temporary connection points will be coordinated with the COTR prior to permitting connections. The Contractor will not be permitted to use Government telephone service.

L. Occupied Building: The Contractor will be working in and around existing occupied buildings. The existing building must remain functional during construction operations. The Contractor shall confine work operations and personnel to the specified areas of construction unless otherwise authorized by the COTR.

1. The Contractor shall not be permitted to use the building's toilet facilities; therefore, it is the Contractor's responsibility to provide portable toilets in designated work areas.

1.11 GOVERNMENT'S OCCUPANCY REQUIREMENTS

A. Government Occupancy of Completed Areas of Construction: Government reserves the right to occupy and to place and install equipment in completed areas of building, before completion, provided such occupancy does not interfere with completion of the Work. Such placement of equipment and partial occupancy shall not constitute acceptance of the total Work.

1. Before partial Government occupancy, mechanical and electrical systems shall be fully operational, and required tests and inspections shall be successfully completed. On occupancy, Government will operate and maintain mechanical and electrical systems serving occupied portions of building.

2. On occupancy, Government will assume responsibility for maintenance and custodial service for occupied portions of building.

1.12 WORK RESTRICTIONS

A. On-Site Work Hours: Normal base work hours for the Contractor will be between the hours of 7:00 AM through 6:00 PM for Camp Dawson excluding Saturdays, Sundays, and Federal Holidays. Working Days for the purposes of this contract are defined as Monday thru Friday exclusive of holidays. Hours of operation for the existing Camp Dawson facilities are continuous. The facility operates on 24 hours per day / 7 days per week schedule.

B. Schedule of Work: In the event of any emergency, intense operational demands, adverse wind conditions, and other such unforeseen difficulties, the discontinuance of the Contractor's operations at the specified times will be mandatory for safety of Contractor, military personnel

and Government property. A schedule of work shall be submitted to the Administrative Contracting Officer, for transmittal to the Maintenance Officer: describing the work to be accomplished; the location of the work; dates and hours during which the work will be accomplished. The schedule of work shall be kept current and the Administrative Contracting Officer shall be notified of any changes prior to beginning each day's work.

- C. **Work Outside of Regular Hours:** If the Contractor desires to work during periods other than above, he must notify the Administrative Contracting Officer or Administrative Contracting Officer's Technical Representative (COTR) three (3) working days in advance of his intention to work during other periods to allow assignment of additional inspection forces and for notification of fire, security and safety. When the Administrative Contracting Officer determines that they are reasonably available, he may authorize the Contractor to perform work during periods other than normal duty hours/days. Work contemplated to cause a more than 2 hour disruption of services (such as utility disconnects) will be scheduled off- hours unless the CO or COTR approve the shutdowns or disruptions to occur during normal working hours in advance. However, if inspectors are required to perform in excess of their normal duty hours/days solely for the benefit of the Contractor, the actual cost of the inspection, at overtime rates, will be charged to the Contractor and will be deducted from the final payment of the Contract amount. (Note: If applicable, at time of award this paragraph will be modified to the negotiated schedule for this project).

1. Prior to commencing work on the job initially, resumption of work on the job initially, resumption of work after prolonged interruption (7 calendar days or more) commencement of any warranty work, and upon completion of warranty work, the Contractor must notify the Architect and Administrative Contracting Officer (or his/her Administrative Contracting Officer Representative). When relocating to new sites, returning to sites for follow-up work on a phased work plan, notification to the Administrative Contracting Officer's Representative is sufficient. Notification should be by personal contact; however, advance notification may be by telephone, or in writing, and should be accomplished sufficiently in advance to allow scheduling of inspection forces.
 - a. The above precautions are to ensure construction inspection and recording of work proceedings.
2. The organization of the specifications into divisions, sections, and articles, and the arrangement of the drawings shall not control the Contractor in dividing the work amount Subcontractor or in establishing the extent of the work to be performed by any trade.

D. **Phasing of Excavation Utilities**

1. Excavation shall not begin until materials and equipment for that specific portion of the job are on site. Backfilling of the excavation shall be accomplished immediately after installation of the utility and immediately after installation and testing of tank and piping.

E. **Excavating Permit**

1. Contractor is required to secure an excavating permit from Base Civil Engineering, before proceeding with any exterior on-site excavating or digging.

- a. The Base Civil Engineer must have three (3) to four (4) working days notice from the Contractor prior to permit being secured.

F. Blocking Base Streets

1. At least two (2) hours prior to the blocking of any street, or as designated by the task order documents, the Contractor shall advise the COTR, appropriate Fire Department and Security Police of his intentions, identifying the location and the estimated time of closure. No more than two streets shall be closed at any time, and the two shall be no closer than five blocks from each other. However, there shall be no closures of any street without at least eight (8) days of prior notification to both the COTR, appropriate Fire Department, Security Officer and the Administrative Contracting Officer.

G. Archeological, Paleontological and Endangered Species Finds

1. Any archeological finds (evidence of human occupation) or paleontological finds (evidence of prehistoric plant or animal life) are to be reported to the Administrative Contracting Office immediately and continue work in other areas without interruption. Protect native endangered flora and fauna and notify Administrative Contracting Officer of any construction activities that might threaten endangered species or their habitats.

H. Damages and Repairs

1. All damages by the Contractor's operations shall be repaired, or replaced, at the Contractor's expense, as directed by the Architect or Administrative Contracting Officer. Any Government property damaged as a result of the work, materials, or operations of the Contractor shall be restored at no additional expense to the Government.
2. All existing sidewalks, curbs, and pavement, disturbed, broken or removed or otherwise damaged by the Contractor during performance of the work under this contract shall be replaced by the Contractor at this own expense. Replaced sidewalks, curbs, and pavements shall be smooth shall blend into the existing work, and shall not present depressions or humps.

1.13 CORRELATION OF DRAWINGS, SPECIFICATIONS AND CONTRACTS

- A. The specifications, Contract and the accompanying Drawings are intended to describe and provide for a complete, new and usable facility. They are intended to be cooperative and what is called for by one shall be as binding as if called for by all. The Contractor will understand that the work herein described shall be complete in every detail, notwithstanding every item necessarily involved is not particularly mentioned, and the Contractor shall be held to provide all labor and material for the entire completion of the work intended to be described and shall not avail himself of any manifestly unintentional error or omission, should any exist. Should any error or inconsistency appear in the Drawings or Specifications, the Contractor, before proceeding with the work, shall make mention of same to the Administrative Contracting Officer and the Architect for proper adjustment, and in no case shall he proceed with the work in uncertainty.
 1. Where changes or adjustments to the Contract Documents involve changes in cost, the Contractor shall not proceed with the work without prior authorization from the Administrative Contracting Officer.

1.14 SPECIFICATION FORMATS AND CONVENTIONS

- A. Specification Format: The Specifications are organized into Divisions and Sections using the 48 division format and CSI/CSC's "MasterFormat" 2004 numbering system.
1. Section Identification: The Specifications use Section numbers and titles to help cross-referencing in the Contract Documents. Sections in the Project Manual are in numeric sequence; however, the sequence is incomplete because all available Section numbers are not used. Consult the table of contents at the beginning of the Project Manual to determine numbers and names of Sections in the Contract Documents.
 2. Division 1: Sections in Division 1 govern the execution of the Work of all Sections in the Specifications.
- B. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
1. Abbreviated Language: Language used in the Specifications and other Contract Documents is abbreviated. Words and meanings shall be interpreted as appropriate. Words implied, but not stated, shall be inferred as the sense requires. Singular words shall be interpreted as plural, and plural words shall be interpreted as singular where applicable as the context of the Contract Documents indicates.
 2. Imperative mood and streamlined language are generally used in the Specifications. Requirements expressed in the imperative mood are to be performed by Contractor. Occasionally, the indicative or subjunctive mood may be used in the Section Text for clarity to describe responsibilities that must be fulfilled indirectly by Contractor or by others when so noted.
 - a. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.

1.15 REPORT OF ERROR AND DISCREPANCIES

- A. The Contractor shall be responsible for any and all discrepancies in work due to failure to obtain dimensions and investigate conditions at the building before fabrication and installation.
- B. The Contractor shall bear all costs in replacing all materials and labor due to not observing the above paragraph and such replaced materials shall meet the approval of the Administrative Contracting Officer and Architect.
- C. The Contractor shall promptly notify the Architect and the COTR in writing of any discrepancies.
- D. Any proposed changes to the specifications by the Contractor must be submitted in writing to the Architect for approval prior to implementation.

1.16 STANDARDS OF MANUFACTURE

- A. All recognized regulatory/code standards shall be the latest published edition prior to the date of release for bid/proposal of the contract documents.
- B. For purpose of establishing the standard of construction and the requirements to be met in the work of all divisions, the drawings and these specifications are based on the use of products hereinafter specified, adapted to the installations as required to meet the condition.
- C. Where brand names are shown, these names are intended to describe a quality of product, and in no way are intended to limit products of equal quality. Therefore, products of other manufacturers may be employed for this work provided they are equivalent materials and construction and equally adaptable to the conditions as approved by the Architect.

1.17 MEANING OF APPROVED, DIRECTED, ETC.

- A. "Approved", "Directed", "Required", "Applicable", or words of like or similar effect, when used in the specifications shall be interpreted to mean "Approved By", "Directed By", etc., the Administrative Contracting Officer unless otherwise specifically stipulated.

1.18 MISPLACED MATERIALS

- A. Any material that is deposited elsewhere than areas designated as approved by the Administrative Contracting Officer shall be re-handled and deposited where directed. No payment will be made for re-handling such material. The Administrative Contracting Officer will notify Contractor of any noncompliance with the foregoing provisions.

1.19 MATERIAL TESTING BY NATIONAL LABORATORIES

- A. Electrical materials and equipment shall be new and bear the UL label or be listed in UL Electrical Construction Materials Directory or Electrical Appliance and Utilization Equipment Directory, wherever standards have been established by the agency.
- B. The Contractor shall submit proof that the material or equipment, which he proposes to furnish under this specification, conforms to the standards of Underwriters' Laboratories. The label of Underwriters Laboratories (UL) shall be accepted as conforming to this requirement.
- C. In lieu of the label, the Contractor may submit a written certification from any recognized testing agency, adequately equipped and competent to perform such services, that the material or equipment has been tested and conforms to the standards, including the methods of testing used.

1.20 KEYS

- A. The Contractor shall be responsible for any Government-owned keys that have been issued to him for access to facilities or areas pertinent to this contract.

- B. Upon completion of the work in an area, or upon request of the Administrative Contracting Officer, the key or keys relevant to the area shall be returned immediately. Keys shall be returned prior to final task order payments.
 - C. Should the Contractor Lose a Key: The Contractor shall notify the Administrative Contracting Officer, immediately and in writing, but not later than one (1) working day after he is aware of the loss. Should the key not be found before final acceptance, the final contract payment shall be reduced by the replacement cost for each key not returned and, if required by the Administrative Contracting Officer, any re-keying costs and cost of any other damages suffered by the Government.
- 1.21 CONSTRUCTION SCHEDULING, WORK PROGRESS AND PREPARATION OF PROGRESS SCHEDULES AND REPORTS
- A. Refer to Specification section 01 30 55 CPM Schedule for preparation of construction schedule
 - B. Prior to specific work elements of a project, the contractor shall confer with the COTR and Architect and agree on a sequence of procedures and means of access to premise and buildings; space for storage of materials and equipment; delivery of materials and use of approaches, use of corridors, stairways and similar means of passage.
- 1.22 SAFETY ASSURANCE
- A. Compliance with Regulations. All work including the handling of hazardous materials or the disturbance or dismantling of structures containing hazardous materials shall comply with the applicable requirements of 29 CFR 1910/1926. Work involving the disturbance or dismantling of asbestos or asbestos-containing materials; the demolition of structures containing asbestos; and/or disposal and removal of asbestos, shall also comply with the requirement of 40 CFR, Part 61, Subpart A. All work shall comply with applicable state and municipal safety and health requirements. Where there is a conflict between applicable regulations, the most stringent shall apply.
 - B. Contractor Responsibility. The Contractor shall assume full responsibility and liability for compliance with all applicable regulations pertaining to the health and safety of personnel during the execution of work. The Government shall not be held liable for any action on the part of the Contractor, his employees or Sub-contractor, which result in illness, injury or death.
 - C. Where an employee can fall more than 6 feet, a fall protection system must be used; 29 CFR 1926.500 stipulates where this occurs and the different types of fall arrest systems.
 - D. When the Contractor is working in or around buildings that are occupied by Government personnel, the Contractor must provide Material Safety Data Sheets (MSDS) of all construction-related materials and equipment to the Administrative Contracting Officer before they begin the work.
 - E. All references to protection of the site and adjacent buildings when trenching, shall include protection of all employees also.
 - F. Inspections, Tests and Reports. The required inspections, tests and reports made by the Contractor, Sub-contractor, specially trained technicians, equipment manufacturers and other as required, shall be at the Contractor's expense.

- G. Materials and Equipment. Special facilities, devices, equipment, clothing and similar items used by the Contractor in the execution of work shall comply with applicable regulations.
- H. Traffic Control Devices. The Contractor shall comply with the recommendations contained in Part 6 of the U. S. Department of Transportation, Federal Highway Administrations "Manual on Uniform Traffic Control Devices", 2003 edition with Revision 1, available at <http://mutcd.fhwa.dot.gov/>, to ensure proper warnings to motorists and adequate traffic control. The Contractor shall provide all warning lights, barricades and other traffic control devices and signs.
- I. Barricades. Barricades are required in accordance with the quoted safety regulations. "Each job site will be clearly identified by signs, and protected by barriers suitably marked by reflective materials, and illumination for easy sighting after dark". This provision is required IAW AFOSH Standard 127-66, Chapter 4, para 4-1,f(1).

1.23 QUALITY CONTROL/ TESTS

- A. Refer to Specification Section 01 41 00 for Testing Agency Requirements
- B. Where work is specified to be in conformity with Standard Specifications of the American Society for Testing Materials (ASTM), or with Federal specifications or with specifications of well known recognized technical and trade organizations, but no tests are specifically stipulated in connection herewith, the Contractor shall furnish and pay for any tests or certifications required by the Administrative Contracting Officer to show that the proposed materials meet with the applicable requirements.
- C. The Contractor shall submit a written certification from a testing agency approved in advance by the Administrative Contracting Officer, adequately equipped and competent to perform such services, that the material or equipment has been tested and conforms to the standards, including the methods of testing used.
- D. Wherever testing or analysis of material is required, such testing unless otherwise noted will be made at the Contractor's expense.
- E. Subsequent testing of those materials that fail to meet specifications will be accomplished by the Contractor at no cost to the Government.
- F. Contractor Quality Control (CQC) Program: (Also See 01 40 00) The Contractor shall provide and maintain an effective quality control program in accordance with specification section 01 40 00 "Contractor Quality Control Program". This document, as a minimum, shall include name and address of the independent testing agency and the responsible principal with the firm; a summary of QC tests required by the specification and to be provided by the testing agency; and typical daily reports forms to be used for this project. The plan shall also indicate organizational procedures to immediately notify the Architect and Administrative Contracting Officer or his/her representative of test results in noncompliance with the specification and recommendations on correction. The testing agency must be an independent company and not owned or partially owned by the Contractor or any relation or employee of the Contractor.
- G. Samples used for testing shall be selected as specified for the various tests elsewhere in the specifications but in every case the method of selecting samples and the location for selection shall be as approved by the Architect.

- H. Tests shall be made in accordance with the specified testing procedures and/or methods and otherwise as required to provide compliance with all contract requirements. Tests shall be made by independent, commercial testing laboratories approved in writing by the Architect and Administrative Contracting Officer.
- I. Results of all tests shall be recorded on certified test reports of the commercial testing laboratories. Reports shall include a statement that the materials tested do or do not meet the requirements of the Contract specifications. Six copies of all reports shall be forwarded directly to the Architect for review within five (5) days of the actual performance of the test. The testing agency shall immediately notify (verbally) the Architect of any tests that indicate failure to meet the contract requirements.
- J. Any item; for which test reports show failure to meet all Contract requirements shall be retested as often as required to show full compliance with Contract requirements, at the Contractor's expense.

1.24 REQUESTS FOR INFORMATION (RFI)

- A. Contractor's Request for Information per section 01 26 13 – Requests for Information shall address technical questions and shall be submitted to the Architect in an approved RFI format.
- B. The Contractor shall allow a minimum of five (5) working days from the date the Government receives the RFI. See Specification section 01-26-13 for specific requirements.

1.25 SITE CLEAN UP/ CLEANLINESS

- A. The Contractor shall maintain the construction site in as clean and orderly condition as possible. All refuse and/or salvage material shall be gathered and disposed of periodically to maintain the site in this condition. All roadways, taxiways and ramp areas within the work area, or used by the Contractor, shall be swept and vacuumed daily to assure safe operation of aircraft. The cleaning operation shall be accomplished with self-propelled sweepers equipped with pick-up devices. The method of cleaning and equipment employed shall be subject to the approval of the Administrative Contracting Officer.
- B. The contractor shall protect Government property and furnishings that may be in, or adjacent to, the work area with appropriate clean drop clothes, barricades, dust-stops, or other provisions as determined by, or approved, by the Administrative Contracting Officer prior to starting work. The Contractor shall remove debris, tools, and equipment when work is completed in that particular area.
- C. During and after periods of rain, this construction site may have a very high water table and/or areas of standing surface water. Dewatering techniques are a Contractor's option; however, the Architect or Administrative Contracting Officer shall approve the method prior to start of work.
- D. Following completion of the work, the Contractor shall clean the entire area from any debris and/or excess of misplaced material due to his operation and obtain Administrative Contracting Officer's approval of this finished work.

- E. Prior to acceptance of the facility and at such times as directed by the Architect or the Administrative Contracting Officer, the Contractor shall thoroughly clean all exposed surfaces of the building where work under this contract was completed.
- F. All protective coatings, except lacquers, shall be removed from finish surfaces and the finish surfaces shall be washed and cleaned. Contractor shall be held responsible for all damaged materials, and at completion, shall replace, at his own expense, all such damaged materials.

1.26 SITE RESTORATION

- A. Rough grading of utility cuts shall be accomplished immediately after backfilling excavated trenches. Final grading, including the placing of topsoil, if required, shall be accomplished as soon as possible. Required landscaping, sodding, or seeding shall be accomplished at the earliest possible time after backfilling as stipulated in the Technical Provisions of the contract.

1.27 LAYOUT AND GRADES

- A. All lines and grade work not presently established at the site shall be laid out by the Contractor in accordance with the drawings and specifications. The Contractor shall maintain all established boundaries and benchmarks and replace as directed any which are destroyed or disturbed.
- B. The Contractor shall engage a Professional Engineer or Registered Land Surveyor, licensed to practice in the State of West Virginia to properly establish all locations, grades, elevations, dimensions, joints, etc., necessary to the proper location of all items of work included in this Contract.
 - 1. All such items shall be established in relation to the benchmark and control points noted on the drawings.

1.28 REFUSE AND SALVAGE MATERIALS:

- A. All refuse, debris, and construction waste shall be legally disposed of off base at the Contractor's expense. Accumulations of refuse on the site will not be permitted.
- B. All salvage property removed and not reinstalled under this contract shall be returned to the Government at a place on Base designated by the Administrative Contracting Officer, or properly disposed of when directed by the Government.
- C. Non-Hazardous Solid Waste should be diverted to recycling, through appropriate means available to the Contractor, if such diversion is less than or equal to the equivalent cost of land filling or incineration.
- D. The Contractor shall maintain adequate property control records for all materials or equipment specified to be salvaged. These records may be in accordance with the Contractor's system of property control, if approved by the property administrator.
 - 1. The Contractor shall be responsible for the adequate storage and protection of all salvaged materials and equipment, and shall replace, at no cost to the Government, all salvage materials and equipment which are broken or damaged during salvage operations

as the result of its negligence, or while in its care. Point of contact concerning Government salvaged items will be identified under the individual task order.

1.29 TEMPORARY FIELD OFFICES

- A. As soon as practicable after award of the initial contract, and until final completion of the work on all task orders, Contractor shall provide, maintain and later remove a suitable temporary office(s) for his own use. In addition the Contractor shall provide a suitable temporary office large enough to conduct regular Progress Meeting for at least 12 persons around one large table with teleconference capability. All field offices shall be painted on the exterior, maintained in good repair, provided with adequate heating, lighting and maintained in a clean and sanitary condition at all times.

1.30 See also Section 01 50 00. UTILITY INTERRUPTIONS

- A. All utility shutdowns require the prior approval of the Administrative Contracting Officer. Request for utility shutdown shall be made in writing at least four (4) weeks prior to the expected date of implementation or as indicated in Task order documents. As soon as actual shutdown date is known, the Contractor shall notify the Administrative Contracting Officer in writing requesting approval at least three (3) working days prior to requested shutdown.
- B. Utility Interruptions shall be done between 16:00 Hrs and 24:00 Hrs and in no case shall have a duration of more than 6 hrs.
- C. The Contractor's progress schedule shall include preliminary listing of all proposed shutdown dates. Every effort shall be made to make all shutdowns as brief as possible, and as limited in extent as possible.
- D. Contractor will provide an emergency plan, with Contractors to accomplish the repairs in the event of utility and/or communications emergencies. This should be included in the Master CQC Plan

1.31 COMPRESSED AIR

- A. Contractor shall provide all compressed air used for work under this contract including temporary lines and connections. Remove all temporary lines, etc., at the completion of the work.

1.32 WEATHER PROTECTION AND TEMPORARY HEATING

- A. The Contractor shall provide and maintain weather protection as may be required to properly protect all parts of the structure from damage during construction.
- B. The Contractor shall be responsible for repairs and maintenance to the heating system or units during the period during progress of building construction and shall deliver same to the Government, at termination of such use, in perfect condition, cleaning out all air ducts and replacing all filters. Any temporary heating shall be at the expense of the Contractor. Method of temporary heating shall be approved by the COTR.

1.33 WORK BY GOVERNMENT

- A. The Government reserves the right to undertake performance by Government forces, for the same type or similar work as contracted herein, as the Government deems necessary or desirable, and to do so will not breach or otherwise violate this contract.

1.34 REGULATIONS

- A. The contractor shall comply with all applicable Federal, State, Local, DOD, National Guard Bureau, Army and Air Force regulations pertaining to safety, traffic control and fire prevention.
- B. The Contractor, his employees, and his Sub-contractor are subject to, and shall abide by and comply with, all relevant statutes, ordinances, laws and regulations of the United States (including Executive Orders of the President) and any State (or other public authority now or hereafter in force). The Contractor agrees to observe and comply with all applicable state and federal requirements regarding social security, workman's compensation, unemployment insurance and any other matters concerning employment applicable to the performance of this contract or rules, regulations, directions and order not inconsistent herewith as may from time to time be issued by the Government. The unilateral act of any Governmental body against any employee of the Contractor for the violation of a state or federal law or regulation shall not excuse the Contractor from full compliance with the terms and conditions of this contract.
- C. Defense Procurement and Acquisition Policy website, <http://www.acq.osd.mil/dpap/>, has links for several other sites with available publications, forms and project data information. These may also be acquired from the Government Printing Office website, http://www.access.gpo.gov/su_docs.

1.35 ENVIRONMENTAL REQUIREMENTS

1. Refer to Specification section 01 74 00 Environmental Protection

1.36 ENVIRONMENTAL PROTECTION

- A. The Contractor shall provide and maintain environmental protection during the life of the contract as defined herein. Environmental protection shall be provided to correct conditions that might endanger the environment during normal construction operations.

1. Definition of Contaminants:

- a. Solid Waste: Discarded solid materials resulting from construction activities.
- b. Rubbish: A variety of combustible and noncombustible wastes such as paper, boxes, glass, crockery, metal and lumber scrap, tin cans, and bones.
- c. Debris: Combustible and noncombustible wastes such as ashes and waste materials resulting from demolition and construction work.
- d. Chemical Waste: Petroleum products, bituminous materials, salts, acids, alkalis, herbicides, organic chemicals, and inorganic wastes.
- e. Sanitary Wastes:

- 1) Sewage – Waste which is considered as domestic sanitary sewage.
 - 2) Garbage – Refuse and scraps resulting from preparation of food.
- f. Rubble - Fill materials generated from non-reinforced concrete, masonry, asphalt construction, and natural earth resulting from excavations.
2. Upon completion and acceptance of the construction, the Contractor shall obliterate signs of temporary construction facilities such as work areas, structures, foundations of temporary structures, stockpiles of excess or waste materials, and other vestiges of construction.
 3. Control and Disposal of Solid, Chemical, and Sanitary Wastes. Wastes shall be placed in closed metal containers which are emptied on a regular schedule. Handling and disposal shall be conducted in a manner to prevent contamination of the site and other areas.
 - a. Disposal of Rubbish and Debris: The Contractor shall transport wastes off Government property and dispose in a manner that complies with Federal, State, and Local requirements. The Contractor shall provide the COTR with a copy of the State and/or Local permit, or license, which reflects such agency's disposal authorization. The permit, or license, and the location of the disposal area, shall be provided to the COTR prior to transporting materials of Government property.
 - 1) Any Hazardous Waste PCB's or PCB contaminated material shipped from Andrews AFB must be examined by the 316th CES before shipment and a representative of the 316th CES must sign the manifest.
 - b. Garbage: Garbage shall be disposed of off Base by the Contractor. Garbage shall be kept in sealed metal containers until disposal is effected. The preparation, cooking, or disposal of food on the project site is strictly prohibited.
 - c. Sewage, Odor, and Pest Control: Chemical toilets or comparably effective units shall be utilized. Wastes shall be periodically collected and removed from the Base. Measures shall be taken to control pests and to mask, or eliminate, undesirable odors.
 - d. Chemical Waste: Chemical wastes shall be stored in corrosion resistant containers and shall be disposed of at least monthly, unless directed otherwise. Disposal of chemical wastes shall be in accordance with Federal, State, and Local requirements. Fuelling and lubricating of equipment and motor vehicles shall be conducted in a manner that affords the maximum protection against spills and evaporation. Lubricants and burned oils to be discarded shall be disposed in accordance with approved procedures meeting Federal, State, and Local regulations. The COTR shall be notified of oil and hazardous material spills which may be large enough to violate Federal, State, and Local regulations.
 - e. Rubble and Land clearing Waste: Rubble and land clearing waste shall be disposed of as herein before specified for "Disposal of Rubbish and Debris", paragraph 18c.(1).
 4. Dust Control: Dust shall be minimized at all times, including non-work hours, weekends, and Federal legal holidays. Soils at the site and other areas disturbed by the Contractor's operations shall be sprinkled or treated with dust suppressors as necessary to control dust. Dry powder brooming will not be permitted. Vacuuming, wet mopping, wet sweeping, or wet power brooming shall be practiced instead.

- a. Air blowing will be permitted only for cleaning off non-particulate debris as form reinforcing bars. Sandblasting will not be permitted unless the dust there from is confined. Only wet cutting of concrete blocks, concrete, and asphalt will be permitted. Unnecessary shaking of bags will not be permitted where concrete mortar and plaster milling is done.
5. Noise: The maximum use of "low-noise-emission products", as certified by the Environmental Protection Agency, shall be made when available. Blasting or explosives will not be permitted.

1.37 IDENTIFICATION OF VEHICLES AND PERSONNEL:

- A. Vehicles: Highway vehicles owned or leased by Contractors shall be furnished with identifying markings reflecting minimally, the Contractor's name, home city and local phone number. Personal Vehicles must be registered with the Installation. (if applicable).
- B. Personnel: Contractor's workmen shall have legal identification (picture ID) on them at all times while working on the Government project.

1.38 DEMONSTRATIONS, COMMISSIONING, AND TESTING

- A. Demonstrations, commissioning, and testing requirements, if required by the contract, will be identified in the applicable divisions and parts of the specifications. The Contractor is responsible for reviewing the contract specifications to ensure all required demonstrations, commissioning, and tests are performed.
- B. Demonstrations, commissioning, and testing requirements must be completed within 14 calendar days from the date of Beneficial Occupancy, pre-final inspection, or Final Acceptance.
- C. Prior to all demonstrations, commissioning, and testing requirements being performed, the Contractor shall coordinate scheduling with the Government Inspector and Independent Commissioning Agent
- D. After completion of all demonstrations, commissioning, and testing, the Contractor shall complete the column entitled "Date Contractor Conducted" he and submit the completed spreadsheet to the Administrative Contracting Officer within 7 calendar days.
- E. The Demonstrations, commissioning, and testing spreadsheet is considered part of the contract closeout documents. Final payment will not be made to the Contractor until the Administrative Contracting Officer has received and accepted the completed spreadsheet.
- F. See also Section 01 79 00 – Demonstration and Training

1.39 SPARE MATERIALS/ PARTS

- A. Spare materials/ parts, if required by the contract, will be identified in the applicable divisions and parts of the specifications. The Contractor is responsible for reviewing the contract specifications to ensure all required spare materials/ parts have been turned over to the Government.

- B. All required spare materials/ parts must be turned over to the Government within 14 calendar days from the date of Beneficial Occupancy, pre-final inspection, or Final Acceptance. If paragraph "a" above is applicable, the Contractor shall also complete the columns entitled "Date Contractor Delivered" and "Quantity Delivered" on the attached spreadsheet (Atch No. 9) and submit the completed spreadsheet to the Administrative Contracting Officer within 7 calendar days after submission of all required spare materials/ parts.
- C. The spare materials/ parts spreadsheet is considered part of the contract closeout documents. Final payment will not be made to the Contractor until the Administrative Contracting Officer has received and accepted the completed spreadsheet.

1.40 FIRE PROTECTION. Welding, Cutting, Brazing, and Burning Operations:

- A. Welding Operations. All welding and burning operations shall be accomplished in strict compliance with the requirements outline in AFOSH Standard 91-5; the National Fire Projection Association Standard 51B; the Department of the Army Corps of Engineers General Safety Requirements Manual EM 385-1; and OSHA 29 CFR 1910.252.
- B. Prior to starting any welding, brazing, or burning operations, the Contractor shall ensure that the person performing the work obtains a permit to do so. This permit, USAF Welding, Cutting and Brazing (AF Form 592), is the only acceptable authorization for performing this type of work. The request for this permit can be accomplished by contacting the Camp Dawson Fire Department at (301) 981-4985. A Fire Department representative will respond to the work site, evaluate the conditions and issue the appropriate permit as required. Normally, this is accomplished within one (1) hour after receiving the request from the person requesting the permit. A copy of each permit shall be retained at the work site until the work has been completed.
- C. The Contractor shall provide, as a minimum, two (2) portable fire extinguishers acceptable to the Base Fire Department at each location where operations of this type are to be conducted. Extinguishers shall meet the requirements outline in AFOSH Standard 91-56 and by the Base Fire Department. General Contractors are required to brief all personnel on fire safety requirements, including all sub-contractors.
- D. Fire Fighting Equipment. In areas of buildings no otherwise authorized by Government installed equipment, the Contractor shall furnish and maintain emergency fire fighting equipment such as water barrels, buckets, shovels, and garden hoses of type and capacities satisfactory to the Base Fire Department and the Administrative Contracting Officer. The Contractor shall be required to make a thorough inspection of each building in which work has been performed at the close of the operations each workday. This inspection shall ensure that all necessary safeguards relative to potential fire hazards are in effect and working. The Contractor shall familiarize themselves and their personnel on the location of all telephones needed for fire reporting, the applicable procedures and all applicable Fire Dept Regulations.
- E. Housekeeping. The Contractor shall at all times maintain good housekeeping practices to reduce the risk of the fire damage and/or personal injury.
 - 1. All scrap materials; rubbish and refuse shall be removed daily from in and around the building and shall not be permitted to be strewn on adjacent property.

- F. Storage of Flammables. A suitable secure storage space shall be provided by the Contractor outside the immediate building area for the storing of flammables/combustibles of any type. No storage will be permitted inside of the building. The storage space shall be properly identified in accordance with applicable Federal National and Local Regulations as outlined by the Base Fire Department. Flammable or combustible liquids being used inside the building will be kept to a minimum and removed from the building during unused periods.
- G. Fire Extinguishers. Two (2) operational fire extinguishers shall be required at each area or location where hazardous operations are being performed. These include, but are not limited to, welding, cutting, brazing, burning, soldering or melting. Operations that produce flying or dripping slag, metal or embers shall have sufficient non-combustible materials on site to protect against fire damage or personal injury due to the operation. This may include fire resistant blankets as required by the Fire Department. When supplemental temporary heating devices are used, a fire watch will be present to cover all periods when such devices are in operations.
- H. Extinguisher Requirements. Both portable fire extinguishers shall meet or exceed a rating of 4A-40BC, as listed by Underwriters Laboratory Factory Manual or any National Acceptable Testing Laboratory. Extinguishers not meeting this requirement are not acceptable.
- I. Fire Alarms. For work operations which require any Camp Dawson fire detection, alarm, or suppression system to be disabled, the Contractor shall request, in writing, a minimum of two (2) days in advance and prior to taking the system out of operation so that the Administrative Contracting Officer may notify the Fire Department of the requirement. The Contractor shall also verify that the Fire Department and the COTR has, in fact, been notified prior to taking systems out of service.

1.41 SEVERE WEATHER WARNING REQUIREMENTS

- A. When notified by the COTR that a severe weather warning has been issued for the areas in which the construction is being performed, the Contractor shall immediately take action to tie down, or otherwise secure structures, materials, and equipment on the job site that could become missiles as a result of strong surface winds, thunderstorms, or other weather-related conditions. The requirements are applicable twenty-four (24) hours a day, seven (7) days a week.

1.42 SEDIMENT AND EROSION CONTROL

- A. Burnoff: Burnoff of the ground cover is not permitted.
- B. Borrow Pit Areas: Manage and control borrow areas to prevent sediment from entering nearby streams or lakes. Restore areas, including those outside the borrow pit, disturbed by borrow and haul operations. Restoration includes grading, replacement of topsoil, and establishment of a permanent vegetative cover. Uniformly grade side slopes of borrow pit to note more than a slope of 1 part vertical to 2 parts horizontal. Uniformly grade the bottom of the borrow pits to provide a flat bottom and drain by outfall ditches or other suitable means. Stockpile topsoil removed during the borrow pit operation and use as part of restoring the borrow area.
- C. Protection of Erodible Soils: Immediately finish the earthwork brought to a final grade, as indicated or specified. Immediately protect the side slopes and back slopes upon completion of rough grading.

1. Plan and conduct earthwork to minimize the duration of exposure of unprotected soils.
- D. Temporary Protection of Erodible Soils: Use the following methods to prevent erosion and control sedimentation:
1. Mechanical Retardation and Control of Runoff: Mechanically retard and control the rate of runoff from the construction site. This includes construction of diversion ditches, benches, berms to retard and divert runoff to protected drainage courses, provision of site fences and protection of storm water inlets as necessary.
 2. Sediment Basins: Trap sediment in temporary sediment basins. Select a basin size to accommodate the runoff of a local 10-year storm. Pump dry and remove the accumulated sediment after each storm. Use a paved weir or vertical overflow pipe for overflow. Remove collected sediment from the site. Institute effluent quality monitoring programs.
 3. Borrow: Permitted only in areas where suitable environmental controls are not possible.
 4. Vegetation and Mulch: Provide temporary protection on sides and back slopes as soon as rough grading is completed or sufficient soil is exposed to require erosion protection. Protect slopes by accelerated growth of permanent vegetation, temporary vegetation, mulching, or netting. Stabilize slopes by hydro seeding, anchoring mulch in place, covering with anchored netting, sodding, or such combination of these and other methods necessary for effective erosion control.
 - a. Seeding: Provide new seeding where ground is disturbed. Include topsoil or nutriment during the seeding operation necessary to establish and/or reestablish a suitable stand of grass. The seeding operation shall be as specified in Section 32 92 01 "Erosion And Sediment Control."
- E. Also see Section 32 92 01 – Erosion and Sedimentation Control

1.43 AT/ FP REQUIREMENTS

- A. The project is required to be compliant with all AT/FP requirements. Comply with Uniform Facility Criteria (UFC) 4-010-01 dated 08 October 2003 (Updated 22 January 2007): DoD Minimum Antiterrorism Standards for Buildings, and UFC 4-022-01 issued 25, May 2004 Entry Control Facilities/Access Control Points.

1.44 WARRANTY (Also see 01 70 40)

- A. In addition to the specific guarantees required by the specifications for certain portions of the work to be performed under this Contract, the Contractor shall furnish a written warranty for all of the work to be performed under this Contract, against defects in materials or workmanship for a period of one (1) year from the date of final acceptance of the completed work by the Government.
- B. All work including workmanship, material, and equipment (other than Government furnished equipment) shall be warranted for the full period of standard manufacturer's warranty, but in no case shall be warranted for a period of less than one (1) year upon notice from the Administrative Contracting Officer of any failure during this warranty period, the part or parts shall be replaced promptly with new parts by and at the expense of the Contractor.

- C. Upon completion, the Contractor shall provide the Administrative Contracting Officer with five (5) bound sets containing maintenance, repair and operating instructions and parts lists for each piece of installed equipment.

1.45 EXTENDED MANUFACTURER WARRANTIES

- A. An extended manufacturer warranty provides coverage beyond the standard one (1) year manufacturer's warranty.
- B. Requirements for extended warranties will be so stated in the contract specifications. The Contractor is responsible for reviewing the specifications to identify all these requirements, and to ensure all extended warranty documents are submitted for both approval and acceptance.
- C. An extended warranty document included as part of a material submittal for review and approval will not be considered as the final extended warranty document required by the contract.
- D. All required final extended warranty documents must each contain, in addition to specific warranty data, the following information:
 1. Warranty Certificate/Claim Number.
 2. Manufacturer's name, address, and telephone number.
 3. Project title and contract number.
- E. The Contractor shall submit all required final extended warranty documents, for review and acceptance, to the Administrative Contracting Officer (or as otherwise directed) in a binder format, as part of the contract closeout documents. In addition, the Contractor must complete columns F, G, and H of the attached Extended Manufacturer Warranty Spreadsheet and submit with the warranty documents.
- F. All extended warranties commence on the date of beneficial occupancy or final acceptance, whichever comes first.
- G. The final extended warranties are considered part of the contract closeout documents. Final payment will not be made to the Contractor until the Administrative Contracting Officer has received and accepted the completed spreadsheet and all required final extended warranty documents.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

EXHIBIT 2

SECTION II - BID ITEMS AND UNIT COSTS

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In the event that unit quantities stated below differ from quantities required for completion of the Work, unit costs as stated below shall be the basis of adjustments in Contract Sum.

The Architect shall be notified if the Bidder's takeoff varies significantly from the estimated quantities.

NO.	ITEM	QTY	UNIT	UNIT PRICE (\$)	EXTENDED PRICE (\$)
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Primary Facility Base Bid					
1	Guard House	1	LS		
PRIMARY FACILITY BASE BID TOTAL					

Project Administration/Quality Control Base Bid					
2	Mobilization/Demobilization	1	LS		
3	Construction Administration	1	LS		
4	Quality Control	1	LS		
PROJECT ADMINISTRATION/QUALITY CONTROL TOTAL					

Civil/Site Base Bid					
Site Preparation					
5	Site Preparation	1	LS		
6	Building Demolition	1	LS		
7	Sediment and Erosion Control	1	LS		
8	Utility Relocation (Allowance)	1	LS	65,000.00	65,000.00
Earthwork					
9	Unclassified Excavation	1	LS		
10	Soil Removal and Replacement	1,500	SY		
11	Subgrade Preparation	100	SY		
12	Soil Drying	5	TN		
13	Over-Excavation	100	SY		
14	6" Subsurface Drains	200	LF		
Roads					
15	6" Concrete Paving	400	SY		
16	HMA Wearing Course	410	TN		
17	HMA Base Course	2,050	TN		
18	Free Draining Base	1,200	TN		
19	Free Draining Base Trench and Piping	1,800	LF		
20	Fabric Separation	5,000	SY		
21	Class 1 Stone	910	TN		
22	Pavement Marking	1	LS		
23	Wheel Stops	5	EA		
24	6" Concrete Curbing	250	LF		
25	12" Concrete Curbing	242	LF		
26	Signage	1	LS		

27	Rumble Strips (Set)	3	EA		
28	Spike Strips (Set)	2	EA		
29	Rubber Speed Bump	2	EA		
30	Hardstand Pavement	240	SY		
Miscellaneous					
31	Sidewalk	135	SY		
32	Type I Lawns	1	LS		
33	20' Drop Arm Beam Barrier	3	EA		
34	Cable Barrier	750	LF		
35	Security Fencing	3	50	LF	
36	36' Double Swing Gate	1	EA		
37	Concrete Barrier Islands	3	2	EA	
38	Concrete Planter/Barrier	6	EA		
39	Bollards 8"	12	EA		
40	Site Lighting	1	LS		
41	Site Electric	1	LS		
42	Equipment Pad	1	LS		
43	Traffic Signal	3	EA		
44	Aggregate Piers	1	LS		
Water					
45	1.5" PVC Water	180	LF		
46	6" PVC Water	250	LF		
47	Not Used	0	EA		
48	Fire Hydrant	1	EA		
Sewer					
49	Sewage Pump Station	1	LS		
50	1-1/4" SDR9 HDPE Sanitary Force Main	350	LF		
51	Cleanout, Force Main	1	EA		
Storm Drainage					
52	6" PVC Storm	25	LF		
53	12" HDPE Storm	280	LF		
54	18" HDPE Storm	275	LF		
55	Type "B" Drop Inlets	9	EA		
56	Type "B" Inlet Grate and Frame	9	EA		
57	Type "G" Drop Inlets	1	EA		
58	Type "G" Inlet Grate and Frame	1	EA		
59	Type "G" Drop Inlet Modification	1	EA		
60	12" Yard Drains	2	EA		

Power and Communications					
61	Communications Duct Type 1	70	LF		
62	Communications Duct Type 2	20	LF		
63	Communications Duct Type 3	15	LF		
64	Communications Duct Type 4	1,250	LF		
65	Communications Duct Type 5	1,190	LF		
66	Communications Duct Type 6	40	LF		
67	Combined Duct Bank Type 1	95	LF		
CIVIL/SITE BASE BID TOTAL					

BASE BID TOTAL*

*Note: Base Bid Total is the summation of PRIMARY FACILITY BASE BID, PROJECT ADMINISTRATION/QUALITY CONTROL BASE BID, and CIVIL/SITE BASE BID.

Alternate Bid Items					
Alternate #1 - Steel Canopy, Concrete Columns and Associated Accessories					
68	Canopy, Columns, Accessories	1	LS		
Alternate #1 Total					
Alternate #2 - Prefabricated Inspection Booths					
69	Booths	2	EA		
Alternate #2 Total					
Alternate #3 - Access Lane Barriers and Card Readers					
70	Barriers and Card Readers	1	LS		
Alternate #3 Total					
Alternate #4 - Not Used					
Alternate #5 - Large Exterior Grade LED Screen					
71	LED Screen	1	LS		
Alternate #5 Total					
Alternate #6 - Cable Barrier Landscape Shrubbery & Planters Shrubbery					
72	Landscaping	1	LS		
Alternate #6 Total					
Alternate #7 - Conduit Stub-ups for Biometrics					
73	Conduit Stub-ups	1	LS		
Alternate #7 Total					
ALTERNATE BID ITEM TOTAL					
TOTAL COST WITH ALTERNATES					

END OF SECTION II

SECTION III – DESCRIPTION OF BID ITEMS

Bid Item 1: Guard House**Unit:** Lump Sum (LS)**Description:** The item shall consist of any and all material, equipment, and labor for items required by the contract documents to provide a complete and functional Guard House building and/or assembly as shown under Base Bid in the Drawings and Specifications.

This item shall include any additional items related to Site Construction where a unit cost has not been requested. Additionally, this work shall include site utilities, excavation and backfill to foundation subgrade for utilities and foundations, and grading within five feet of the building perimeter, which includes the perimeter of the existing building as well as all additions. The work shall include, but is not limited to, all materials, labor, equipment, and incidentals to construct the facility within the terms and conditions of the plans and specifications. The full extent of this work is defined by the Contract Documents, including the Drawings and Project Manual, dated September 28, 2010 as well as any addenda issued during the bidding process. Work shall include, but is not limited to, providing labor, materials, equipment, and incidentals necessary to perform all items of work.

Measurement: Measurement will be based on completion of the work described and accepted by the Contracting Officer Technical Representative (COTR).**Payment:** Payment for item will be in accordance with the specifications.**Bid Item 2: Mobilization/Demobilization****Unit:** Lump Sum (LS)**Description:** The work shall consist of activities including, but not limited to, construction preparatory operations, including the movement of personnel, equipment, and materials to and from the project site; payment of performance bond, guaranty bond, and other insurance premiums; and storage facilities.**Measurement:** Measurement will be based on completion of the work described, prorated from lump sum amount according to the Basis of Payment below. Maximum limitation Mobilization/Demobilization will be 5% of base bid.**Payment:** Payment for item will be in three installments. The first payment of 50 percent of the lump sum price will be made on the first estimate following partial mobilization including the placement or erection of the Contractor's office and storage facilities and the initiation of construction work. The second payment of 25 percent will be made on the next estimate following completion of substantial mobilization. The remaining 25 percent will be paid upon demobilization and satisfactory restoration of the contractor's staging and work area and final completion of the Project.

Bid Item 3: Construction Administration

Unit: Lump Sum (LS)**Description:** This work shall consist of performing the construction administrative duties associated with managing the construction of the Project as stated in Division 1 and throughout the Specifications, providing construction layout, and coordination of utility installation, tie-in of site grading and access roads, administration and maintenance of all required permits for the project, including permit fees, and a WVDOH Encroachment permit (if required).**Measurement:** There will be no direct measurement of materials, labor, and services provided by the Contractor in completing this item.**Payment:** Payment shall be made at the contract lump sum price, based on percentage of contract completion.**Bid Item 4: Quality Control**

Unit: Lump Sum (LS)**Description:** The work shall consist of the performance of work specified in but not limited to preparation, performance, and furnishing all materials to implement the Quality Control Plan.**Measurement:** There will be no direct measurement of materials, labor, and services provided by the Contractor in completing this item. Maximum limit on Quality Control is 2%.**Payment:** This item will be paid for at the contract lump sum price at satisfactory completion of work.**Bid Item 5: Site Preparation**

Unit: Lump Sum (LS)**Description:** This work shall include, but is not limited to, the removal of trees and other vegetation, topsoil stripping and stockpiling within the construction limits, removal of existing utilities, demolition of roads and other improvements as shown on the plans, septic tank cleaning and removal, installation and removal of temporary utilities, tie-in of existing roads to the new road, and clearing and grubbing of all areas disturbed by the Contractor. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.**Measurement:** There will be no direct measurement of materials, labor, and services provided by the contractor in completing this item.**Payment:** Payment shall be made as a percentage of work completed and accepted completion by the COTR.

Bid Item 6: Building Demolition

Unit: Lump Sum (LS)**Description:** This work shall consist of, but is not limited to, the demolition of structures as shown on the plans, salvaging specified equipment, and disposing of materials not salvaged or recycled off site in an approved landfill or other approved disposal facility. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.**Measurement:** There will be no direct measurement of materials, labor, and services provided by the Contractor in completing this item.**Payment:** Payment shall be made as a percentage of work completed and accepted completion by the COTR.**Bid Item 7: Sediment and Erosion Control**

Unit: Lump Sum (LS)**Description:** This item shall consist of furnishing, installation, maintenance and subsequent removal of necessary storm water structures, best management practices, and other work required to prevent escape of sediment from disturbed areas of project site. Also included is the preparation, submission, and administrative maintenance of any permits required by the West Virginia Department of Environmental Protection (WVDEP) or other agencies. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.**Measurement:** There will be no direct measurement of materials, labor, and services provided by the contractor in completing this item.**Payment:** Payment for item shall be in three installments. The first payment of 50% of the lump sum price shall be made on the first estimate following acceptance by WVARNG and filing of a WV NPDES Construction Stormwater Notice of Intent and installation of best management practices. The second payment of 25% shall be made on the next estimate following finish grading and stabilization of all waste and borrow areas. The remaining 25% shall be paid upon properly stabilizing the site, demobilization, and final completion of the Project as determined by the COTR.**Bid Item 8: Utility Relocation**

Unit: Lump Sum (LS) (Allowance)**Description:** This work shall consist of relocating the existing Frontier Communications and Atlantic Broadband service lines to the new locations shown on the Plans or as required by the utilities. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: The contractor will not bid on this utility work, but will be reimbursed the actual approved invoice cost. The contractor shall submit an estimate for the relocation work to the COTR for approval prior to execution.

Payment: This item shall be paid for the approved invoice from the utility company, based on acceptance of the relocation by the affected utility and the COTR.

Bid Item 9: Unclassified Excavation

Unit: Lump Sum (LS)

Description: This work shall consist of unclassified excavation, loading and hauling of excavated material, placement and compaction, and shall include final grading, shaping and contouring of the excavation and fill areas. The terms for earthwork used in the remainder of this Section imply excavation in native materials. The Contractor, with approval of the COTR, shall adjust the final grades as necessary to create a finished project. The Contractor shall excavate to the lines and grades shown on the Plans. The Contractor shall perform all excavation of every description and of whatever materials encountered to the depths indicated on the Plans. No additional compensation shall be considered for rock excavation. Over-excavation and/or fill not shown on the Plans or specified herein shall be at the Contractor's expense, unless approved by the COTR prior to commencing such work. If unsuitable materials exist below the grades shown on the Plans, this material shall be removed with the prior approval of the COTR and shall be paid per the unit price for "Overexcavation".

Except at locations where excavation of unsuitable material is required, care shall be taken not to excavate below the depths specified. Final shaping and contouring of the areas shall be performed to the satisfaction of the COTR.

This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: There will be no direct measurement of materials, labor, and services provided by the contractor in completing this item.

Borrow and waste areas (on- or off-site) shall be regraded and reclaimed, including sediment and erosion control and revegetation, at no additional cost to the COTR. Disposal of surplus and waste materials, if encountered, are incidental to this bid item and shall be performed at no additional cost to the COTR.

Payment: This item will be paid for at the contract unit price per lump sum.

Bid Item 10: Soil Removal and Replacement

Unit: Square Yard (SY)**Description:** This work shall include, but is not limited to, excavation, hauling, placement of unsuitable soils in waste area, obtaining satisfactory borrow material or recycled pavements, hauling, placement and compaction of the material in areas designated by the COTR. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.**Measurement:** Measurement shall be based on square yards of area completed for the work described. Excess material or material placed beyond approved limits shall not be included in the measured quantity.**Payment:** Payment shall be made at the contract unit price per square yard.**Bid Item 11: Subgrade Preparation**

Unit: Square Yard (SY)**Description:** This work shall include, but is not limited to, excavation, scarification, and recompaction of the top 24 inches of in-place subgrade under structures, building slabs, steps, and pavements in excavated areas. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work. Manipulation of the excavated material to achieve optimum moisture content shall be considered incidental to the work. If additional satisfactory soil fill is required to achieve subgrade elevations after compaction, it shall be considered incidental to the work.**Measurement:** Measurement shall be based on square yards of area completed for the work described. Material prepared beyond approved limits shall not be included in the measured quantity. Subgrade preparation of other areas, such as walkways and lawn areas, is incidental to earthwork and shall not be paid for by this bid item.**Payment:** Payment shall be made at the contract unit price per square yard.**Bid Item 12: Soil Drying**

Unit: Ton (TN)**Description:** This work shall include, but is not limited to, quicklime application and mixing of stockpiles of existing satisfactory soils with high moisture content. The required demonstration of proposed techniques is incidental. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.**Measurement:** The quantity of work completed shall be measured in tons of quicklime used as evidenced by weigh tickets for bulk loads or delivery slips for packaged materials certified by the contractor to be correct.

Payment: Payment shall be made at the contract unit price per ton.

Bid Item 13: Over-Excavation

Unit: Square Yard (SY)

Description: This work shall include, but is not limited to, excavation below subgrade, transportation and disposal of unsuitable materials, placement of geogrid and AASHTO #1 stone, and proof-rolling areas of unsuitable soils in locations directed by the COTR. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on square yards of area completed for the work described. Excess material or material placed beyond approved limits shall not be included in the measured quantity.

Payment: Payment shall be made at the contract unit price per square yard.

Bid Item 14: 6" Subsurface Drains

Unit: Linear Foot (LF)

Description: This work shall consist of installation of subsurface drains of specified size in locations specified on the plans or directed by the COTR. The drains are to be installed in locations that will intercept the maximum amount of seepage. Subsurface drain work includes dewatering, excavation, drainage fabric, stone, pipe, fittings, cleanouts and backfill. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on linear feet of drains in place, completed, and accepted by the COTR. It shall be measured along the centerline and shall include all fittings as typical pipe section in the pipe being measured.

Payment: This item shall be paid for at the contract price per linear foot.

Bid Item 15: 6" Concrete Paving

Unit: Square Yard (SY)

Description: This work consists of furnishing and complete installation of Portland cement concrete pavement, reinforcing, joints, and sealants at the areas as shown on the plans. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on square yards of area completed for the work described. Excess material or material placed beyond approved limits shall not be included in the measured quantity.

Payment: Payment shall be made at the contract unit price per square yard.

Bid Item 16: HMA Wearing Course

Unit: Ton (TN)

Description: This work shall consist of furnishing and installing designated scratch course and wearing course asphalt in accordance with the Plans and Specifications. The completed pavement shall be accepted, with respect to compaction, on a lot-to-lot basis. Each lot shall consist of approximately 2,000 SF of each layer or course by shall be taken at a random location of each of the five sub-lots.

The target percentage of density shall be 96 percent.

The compaction density of the asphalt shall be considered satisfactory so long as the averages of all the five consecutive compaction results equal to or exceed the specified compaction percent of 96% and no individual strength test result falls below the specified compaction by more than 5 percent. If the average of five consecutive compaction results is below the 96 percent, then a payment adjustment shall be made for that tonnage of asphalt representing the area of placement.

This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: The quantities of work done shall be measured in tons as designated. The quantity shall be determined by the Contractor from the total weigh slips for each vehicle load weighed upon automatic batching plant, and certified by the Contractor to be correct. Each weigh slip shall indicate the contract item numbers for the material being delivered.

Payment: Payment shall be made at the contract unit price per ton.

The quantities, determined as provided per the specifications, shall be paid for at the Contract unit prices bid for the items listed, which prices and payments shall be full compensation for furnishing all materials and doing all the work prescribed in a workmanlike and acceptable manner, including all labor, tools, equipment, field laboratory, supplies and incidentals necessary to complete the work.

Adjustment of Price: Bituminous concrete found not in compliance with the tolerance requirements shall be paid for at an adjusted contract price specified

The payment adjustment to tonnage of work places is as follows:

Average Compaction % for a Lot	Percent of Contract Price Paid
96	100
94-96	98
92-94	93
89-92	90
Less than 89	No acceptance

Bid Item 17: HMA Base Course

Unit: Ton (TN)

Description: This work shall consist of furnishing and installing designated base course asphalt in accordance with the Plans and Specifications. Scratch course is incidental to the overlaying wearing course. The completed pavement shall be accepted, with respect to compaction, on a lot-to-lot basis. Each lot shall consist of approximately 2,000 SF of each layer or course by shall be taken at a random location of each of the five sub-lots.

The target percentage of density shall be 96 percent.

The compaction density of the asphalt shall be considered satisfactory so long as the averages of all the five consecutive compaction results equal to or exceed the specified compaction percent of 96% and no individual strength test result falls below the specified compaction by more than 5 percent. If the average of five consecutive compaction results is below the 96 percent, then a payment adjustment shall be made for that tonnage of asphalt representing the area of placement.

This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: The quantities of work done shall be measured in tons as designated. The quantity shall be determined by the Contractor from the total weigh slips for each vehicle load weighed upon automatic batching plant, and certified by the Contractor to be correct. Each weigh slip shall indicate the contract item numbers for the material being delivered.

Payment: Payment shall be made at the contract unit price per ton.

The quantities, determined as provided per the specifications, shall be paid for at the Contract unit prices bid for the items listed, which prices and payments shall be full compensation for furnishing all materials and doing all the work prescribed in a workmanlike and acceptable manner, including all labor, tools, equipment, field laboratory, supplies and incidentals necessary to complete the work.

Adjustment of Price: Bituminous concrete found not in compliance with the tolerance requirements shall be paid for at an adjusted contract price specified

The payment adjustment to tonnage of work places is as follows:

Average Compaction % for a Lot	Percent of Contract Price Paid
96	100
94-96	98
92-94	93
89-92	90
Less than 89	No acceptance

Bid Item 18: Free Draining Base**Unit:** Ton (TN)

Description: This work consists of furnishing and complete installation of open graded free draining base course for pavements. Aggregate, compaction, binder material, and curing are included with this item. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: The quantities of work done shall be measured in tons as designated. The quantity shall be determined by the Contractor from the total weigh slips for each vehicle load weighed on an approved standard scale or from digital print-out slips from an automatic batching plant, and certified by the Contractor to be correct. Each weigh slip shall indicate the contract item numbers for the material being delivered. Only work accepted by the COTR shall be included, any work rejected or materials used for other items or purposes shall be deducted.

Payment: Payment shall be made at the contract price per ton.

Bid Item 19: Free Draining Base Trench and Piping**Unit:** Linear Foot (LF)

Description: This work shall consist of constructing free draining base trenches and outlet pipes in reasonably close conformity with the lines, grades, dimensions, and locations shown on the Plans or established by the COTR. Excavation, perforated pipe, filter material, outlet pipe, aggregate backfill, and disposing of all surplus material is included with this item. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: The quantity of work done shall be measured by the linear foot of free draining base trench installed, complete in place and accepted. The perforated pipe, geotextile, and aggregate backfill is a component of the free draining base trench. Length shall be determined from actual measurements once the free draining base trench is in place. No deductions shall be made for placement of the drop connection required at outlet pipe locations. Outlet pipes required from the free draining base trench to daylight or another drainage structure are incidental to this item.

Payment: The quantities, determined as provided above, shall be paid for at the contract unit price per linear foot.

Bid Item 20: Fabric Separation

Unit: Square Yard (SY)**Description:** This work shall include, but is not limited to, furnishing and installing geotextile fabric in pavement sections as directed by the COTR. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.**Measurement:** Measurement shall be based on square yards of area completed for the work described. Excess material or material placed beyond design limits shall not be included in the measured quantity. Fabric used in free draining base trench is not included in this pay item.**Payment:** Payment shall be made at the contract unit price per square yard.**Bid Item 21: Class 1 Stone**

Unit: Ton (TN)**Description:** This work includes, but is not limited to, furnishing and complete installation of Class 1 aggregate course for pavements as directed by the COTR. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.**Measurement:** The quantities of work done shall be measured in tons as designated. The quantity shall be determined by the Contractor from the total weigh slips for each vehicle load weighed on an approved standard scale or from digital print-out slips from an automatic batching plant, and certified by the Contractor to be correct. Each weigh slip shall indicate the contract item numbers for the material being delivered. Only work accepted by the COTR shall be included, any work rejected or materials used for other items or purposes shall be deducted.**Payment:** Payment shall be made at the contract unit price per ton.**Bid Item 22: Pavement Marking**

Unit: Lump Sum (LS)**Description:** Pavement markings shall consist of furnishing and installing various types of markings, as shown on the plans and an additional 200 sq ft for miscellaneous marking as directed by the COTR. It shall include edge lines, center lines, handicapped parking, shoulders, stop lines and pedestrian crossing markings. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.**Measurement:** There will be no direct measurement of labor, materials and services provided by the contractor in completing this item.

Payment: This item shall be paid for at the contract lump sum price upon satisfactory completion of all pavement markings shown on the plans.

Bid Item 23: Wheel Stops

Unit: Each (EA)

Description: This work includes, but is not limited to, furnishing and complete installation of plastic wheel stops as directed by the COTR. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: The quantity of work done shall be measured per each wheel stop completely installed.

Payment: Payment shall be made at the contract unit price per each.

Bid Items 24-25: Concrete Curbing, 6" and 12"

Unit: Linear Foot (LF)

Description: This work shall includes, but is not limited to, the construction of cast-in-place concrete curbing at the locations shown on the Plans, or as directed by the COTR. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Curbing shall be measured along the front face of the section at the finish grade elevation.

Payment: Payment shall be made at the contract unit price per linear foot.

Bid Item 26: Signage

Unit: Lump Sum (LS)

Description: This item includes, but is not limited to, furnishing and installing miscellaneous signs, stop, parking, informational, etc. as noted on the Plans or as directed by the COTR. Signs, posts, foundations, and necessary hardware are included. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on completion of work described.

Payment: Payment shall be made at the contract unit price for lump sum.

Bid Item 27: Rumble Strips (Set)

Unit: Each (EA)

Description: This work shall consist of installing asphalt strips in the wearing course of asphalt pavements as detailed in the plans. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on set of rumble strips in place completed, and accepted by the COTR.

Payment: Payment shall be made at the contract unit price for each.

Bid Item 28: Spike Strips (Set)

Unit: Each (EA)

Description: This work shall consist of installing spike strips in the wearing course of asphalt pavements as detailed in the plans. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on set of spike strips in place completed, and accepted by the COTR.

Payment: Payment shall be made at the contract unit price for each.

Bid Item 29: Rubber Speed Bump

Unit: Each (EA)

Description: This work shall consist of installing rubber speed bumps in the wearing course of asphalt pavements as detailed in the plans. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on set of rubber speed bumps in place completed, and accepted by the COTR.

Payment: Payment shall be made at the contract unit price for each.

Bid Item 30: Hardstand Pavement

Unit: Square Yard (SY)

Description: This work shall consist of installation of the hardstand pavement in locations specified on the plans or as directed by the COTR. Hardstand pavement work includes excavation, geotextile fabric, and stone. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on square yards of area completed for the work described. Excess material or material placed beyond approved limits shall not be included in the measured quantity.

Payment: Payment shall be made at the contract unit price per square yard.

Bid Item 31: Sidewalk

Unit: Square Yard (SY)

Description: This work shall consist of furnishing and installing welded wire mesh reinforcing, 4,000 psi air-entrained concrete, Class 1 stone, formwork and incidentals associated with concrete sidewalks and pads as detailed on the Plans. The areas adjacent to the building shall also include drainage fill and foam insulation. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on square yards of area completed for the work described. Excess material or material placed beyond approved limits shall not be included in the measured quantity.

Payment: Payment shall be made at the contract unit price per square yard.

Bid Item 32: Type I Lawns

Unit: Lump Sum (LS)

Description: This work shall consist of Type I Lawns as shown on the Drawings and specified in Section 329200, "Turfs and Grasses". The bid item shall include fine grading and preparing lawn areas, protection and maintenance of lawn areas. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on completion of work described.

Payment: Payment shall be made at the contract unit price for lump sum.

Bid Item 33: 20' Drop Arm Beam Barrier

Unit: Each (EA)

Description: This work consists of furnishing and complete installation of drop arm crash barriers. The price shall include excavating, trenching, concrete footings, backfilling, barriers, controls, warning lights, signs, and any other ancillary items. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be per each barrier completely installed.

Payment: The accepted quantities of barriers shall be paid for at the contract unit price per each complete in place.

Bid Item 34: Cable Barrier

Unit: Linear Foot (LF)

Description: This work consists of installing a vehicular cable barrier as shown on the plans. Excavation, backfill, concrete anchors, cables, posts, fittings, hardware, and tensioning are included. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be by the linear foot along the front face of the wall at the finished grade elevation.

Payment: Payment shall be made at the contract unit price for linear foot.


Bid Item 35: Security Fencing

Unit: Linear Foot (LF)

Description: This work consists of furnishing and complete installation of chain link fencing with six foot fabric height and personnel gates. The price will include excavating, trenching, concrete footings, backfilling, grouting posts in place, grounding, bonding, barbed wire, and gate hardware. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be along the bottom wire of the fence from outside to outside of end posts for each continuous run of fence, excluding lengths occupied by vehicular gates.

Payment: The accepted quantities of fencing materials shall be paid for at the contract unit price per linear foot complete in place.

Bid Item 36:  **36' Double Swing Gate**

Unit: Each (EA)

Description: This work consists of furnishing and complete installation of a double swing gate for chain link fences and site security. The price shall include excavating, trenching, concrete footings, backfilling, grouting posts in place, grounding, bonding, barbed wire, and locks. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be per each gate completely installed.

Payment: The accepted quantities of gates shall be paid for at the contract unit price per each complete in place.

Bid Item 37: Concrete Barrier Islands

Unit: Each (EA)

Description: This work shall consist of installing the concrete barrier islands and the cast-in-place jersey barrier associated with each island as shown in the Plans. Excavation, aggregate base, concrete, metal edging, bollards, associated drainage structures, piping, conduits, and other ancillary equipment within the boundary created by the edge of the concrete islands are incidental to this item of work. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be per each barrier island completely installed.

Payment: The accepted quantities of gates shall be paid for at the contract unit price per each complete in place.

Bid Item 38: Concrete Planter/Barrier

Unit: Each (EA)

Description: This work shall consist of installing the concrete planter/barriers as shown in the Plans. Minor grading, drainage media, soil, aggregate base, and plants are incidental to this item of work. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: The quantity of work done shall be measured per each planter/barrier completely installed and accepted by the COTR.

Payment: Payment shall be made at the contract unit price per each.

Bid Item 39: Bollards – 8”

Unit: Each (EA)

Description: This work consists of furnishing and complete installation of bollards. The unit price shall include furnishing and installing metal posts, and associated hardware, concrete footings, excavation, backfill, and compensation for doing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, and incidentals required to complete the work.

Measurement: The quantity of work done shall be measured per each bollard completely installed and accepted by the COTR.

Payment: Payment shall be made at the contract unit price per each.

Bid Item 40: Site Lighting

Unit: Lump Sum (LS)**Description:** The work consists of providing and installing all new site lighting poles and light fixtures (41 total) as indicated on the plans. This pricing shall include all conduit, wiring, rigging, painting, associated foundations and grounding. Work shall include, but is not limited to, providing labor, materials, equipment, and incidentals necessary to perform all items of work.**Measurement:** There will be no direct measurement of materials, labor, and services provided by the Contractor in completing this item.**Payment:** Payment shall be made at the contract unit price for lump sum.**Bid Item 41: Site Electric**

Unit: Lump Sum (LS)**Description:** The work consists of providing and installing all site electrical conduits and wiring including the conduits and wiring from junction box 88 to the ACP. Work shall include, but is not limited to, providing labor, materials, equipment, and incidentals necessary to perform all items of work.**Measurement:** There will be no direct measurement of materials, labor, and services provided by the Contractor in completing this item.**Payment:** Payment shall be made at the contract unit price for lump sum.**Bid Item 42: Equipment Pad**

Unit: Lump Sum (LS)**Description:** This work shall consist of a cast-in-place concrete pad for the transformer, condenser, and mobile generator. The pad must meet the requirements of the condenser manufacturer and Allegheny Power. This shall include excavation, concrete, reinforcing, grounding hardware, aggregate base and any other incidentals necessary for a complete and functional pad. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.**Measurement:** Measurement shall be based on each pad completed and accepted by the COTR.**Payment:** Payment shall be made at the contract unit price per each.**Bid Item 43: Traffic Signal**

Unit: Each (EA)

Description: This work consists of furnishing and installing pole mounted traffic signals and signs for each lane of the ACP. The unit price shall include furnishing and installing the signal, signage, pole, foundation, conduit, cables and miscellaneous hardware. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: The quantity of work done shall be measured per each traffic signal completely installed.

Payment: Payment shall be made at the contract unit price per each.

Bid Item 44: Aggregate Piers

Unit: Lump Sum (LS)

Description: This work consists of furnishing and installing aggregate piers. This work includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: There will be no direct measurement of materials, labor, and services provided by the Contractor in completing this item.

Payment: Payment shall be made at the contract unit price for lump sum.

Bid Items 45-46: Water Line – PVC 1.5” and 6”

Unit: Linear Foot (LF)

Description: This work shall include, but is not limited to, furnishing and installing various sizes of water line as directed by the COTR. These prices shall fully compensate the Contractor for providing pipe, fittings, valves, valve boxes, casing pipes, bedding, excavation, backfill, concrete thrust blocks, asphalt repair, curb stops, flushing, testing, and coordination with the City of Kingwood for acceptance. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on linear feet of water line in place, completed, and accepted by the COTR. It shall be measured along the centerline and shall include all fittings and appurtenances associated with the water line.

Payment: Payment shall be made at the contract unit price per linear foot.

Bid Item 47: NOT USED

Bid Item 48: Fire Hydrant

Unit: Each (EA)

Description: This work consists of furnishing and complete installation of exterior fire hydrants. The unit price shall include furnishing and installing a fire hydrant, fittings, excavation, bedding, backfill, concrete thrust blocks, saw-cutting of pipe, and testing and inspection. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: The quantity of work done shall be measured per unit fire hydrant acceptably installed.

Payment: Payment shall be made at the contract unit price per each.

Bid Item 49: Sewage Pump Station

Unit: Each (EA)

Description: This work consists of furnishing and complete installation of a sewage pump station as shown on the plans. The unit price shall include furnishing and installing pipe, fittings, valves, valve vaults, bollards, gravel, control panel, testing, excavation, and backfill. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: There will be no direct measurement of materials, labor, and services provided by the Contractor in completing this item.

Payment: Payment shall be made at the contract unit price for lump sum.

Bid Item 50: 1-1/4" SDR9 HDPE Sanitary Force Main

Unit: Linear Foot (LF)

Description: This work shall consist of furnishing and installing a HDPE sanitary sewer force main. These prices shall fully compensate the Contractor for providing pipe, bedding, excavation, backfill, fittings, pavement repairs, testing and coordination with the City of Kingwood for acceptance. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on linear feet of sanitary sewer force main in place, completed, and accepted by the COTR. It shall be measured along the centerline and shall include all fittings and appurtenances associated with the sanitary sewer force main.

Payment: Payment shall be made at the contract unit price per linear foot.

Bid Item 51: Cleanout, Sanitary Sewer Force Main

Unit: Each (EA)

Description: This work consists of furnishing and complete installation of cleanout. The unit price shall include furnishing and installing pipe, fittings, vault, concrete apron, excavation, and backfill. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: The quantity of work done shall be measured per each cleanout completely installed and accepted by the COTR.

Payment: Payment shall be made at the contract unit price per each.

Bid Items 52–54: Storm Line – PVC 6”, HDPE 12” and 18”

Unit: Linear Foot (LF)

Description: This work consists of the furnishing and complete installation of various pipe for storm drainage outside the building. This price shall fully compensate the Contractor for providing pipe, bedding, excavation, backfill, fill, fittings, and pavement repairs. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Conduit of the different types and sizes, shall be measured by the linear foot in place, the measurement being made along the centerline of each pipe installed. Branch connections, tees, wyes, and elbows shall be measured along their centerlines and these lengths included in the total lengths of the appropriate conduit. Wyes, tees, and other branch connections shall be measured along the centerlines to points of intersection. The portion of pipe extending through to the inside face of headwalls of all types, manholes, inlets, boxes, or other structures shall be included in the measurement.

Payment: Payment shall be made at the contract unit price per linear foot.

Bid Items 55–58: Type “B” and “G” Drop Inlet, Type “B” and “G” Inlet Grate & Frame

Unit: Each (EA)

Description: This work shall consist of installing pre-cast or cast-in-place concrete inlets for storm drainage. Pipe connection, bedding, excavation, backfill, fill, fittings, and pavement repairs, are included in this item. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on each drain inlet in place completed, and accepted by the COTR.

Payment: Payment shall be made at the contract unit price per each.

Bid Item 59: Type “G” Drop Inlet Modification

Unit: Each (EA)

Description: This work shall consist of raising or lowering existing drop inlets to match the new grades to include cleaning, excavation, installing new sections or grade adjustment rings, grouting and resetting grates, and pavement repair. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on each trench drain modification completed, and accepted by the Government.

Payment: Payment shall be made at the contract unit price per each.

Bid Item 60: 12" Yard Drains

Unit: Each (EA)

Description: This work shall consist of installing drains and inlets for storm drainage. Inlets, grates, pipe, excavation, bedding, backfill, fill, fittings and pavement repairs are included in this item. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on each drain inlet in place completed, and accepted by the COTR

Payment: Payment shall be made at the contract unit price for each.

Bid Items 61-63: Communications Duct – Types 1-3

Unit: Linear Foot (LF)

Description: This work shall consist of furnishing and installing conduits from the point of origin to the point of connection on the Plans. These prices shall fully compensate the Contractor for providing pipe, vaults, handholes, cables, wires, extra pull ropes, concrete, excavation, backfill, and sleeves. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on linear feet of duct bank in place, completed, and accepted by the COTR. It shall be measured along the centerline and shall include all fittings, pull ropes and appurtenances associated with the duct bank.

Payment: Payment shall be made at the contract unit price per linear foot of line in service.

Bid Items 64-66: Communications Duct – Types 4-6

Unit: Linear Foot (LF)

Description: This work shall consist of furnishing and installing conduits from the point of origin to the point of connection on the Plans. These prices shall fully compensate the Contractor

for providing pipe, vaults, handholes, pedestals, extra pull ropes, excavation, concrete encasement and steel casing pipe where shown on the plans, backfill, and sleeves. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on linear feet of duct bank in place, completed, and accepted by the COTR. It shall be measured along the centerline and shall include all fittings, pull ropes and appurtenances associated with the duct bank.

Payment: Payment shall be made at the contract unit price per linear foot of line in service.

Bid Item 67: Combined Duct Bank Type 1

Unit: Linear Foot (LF)

Description: This work shall consist of furnishing and installing conduits from the building or the point of origin to the point of connection on the Plans. These prices shall fully compensate the Contractor for providing pipe, fiber, wires, conductors, extra pull ropes, vaults, concrete, excavation, backfill, and sleeves. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on linear feet of duct bank in place, completed, and accepted by the COTR. It shall be measured along the centerline and shall include all fittings, and appurtenances associated with the duct bank.

Payment: Payment shall be made at the contract unit price per linear foot of line in service.

Bid Item 68: Steel Canopy, Concrete Columns and Associated Accessories

Unit: Lump Sum (LS)

Description: (If this Alternate is accepted with the Base Bid then the exterior light poles adjacent to the guardhouse and inspection lanes are to be removed from the Base Bid. See drawings.)

The item consists of any and all materials, equipment and labor for items required by the contract documents to provide and install a complete and functional canopy over the guardhouse and inspection lanes. This work includes but is not limited to, selective civil work, selective utility work, concrete work, steel installation, metal fascia and metal ceiling, roofing, lighting and electrical work, electronic security, roof storm drainage and the installation of rainleaders.

Measurement: Measurement will be based on completion of the work described and accepted by the Contracting Officer Technical Representative (COTR).

Payment: Payment for item will be in accordance with the specifications.

Bid Item 69: Prefabricated Inspection Booths

Unit: Each (EA)

Description: The item consists of any and all materials, equipment and labor for items required by the contract documents to provide and install two complete and functional identical prefabricated bullet resistant inspection booths. This work includes but is not limited to, utility connection to the stub up installed as part of the Base Bid, weather sealing and leveling the connection between the concrete island and prefabricated truck inspection booth.

Measurement: Measurement will be based on completion of the work described and accepted by the Contracting Officer Technical Representative (COTR).

Payment: Payment shall be made at the contract unit price per each.

Bid Item 70: Access Lane Barriers and Card Readers

Unit: Each (EA)

Description: This work includes, but is not limited to, furnishing and installing automatic vehicle gates detector loops and access control units. This item includes excavation, pavement cuts for electric inductance loops, electric inductance loops, access control unit, Class B concrete foundation for operator unit, steel anchors for fastening operator to concrete pad, conduits and wiring, and any other incidentals required for a complete and functional automatic gate. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on each Automatic Gate in place, completed and accepted by the COTR.

Payment: Payment shall be made at the contract unit price per each.

Bid Item 71: Large Exterior Grade LED Screen

Unit: Lump Sum (LS)

Description: The item consists of any and all materials, equipment and labor for items required by the contract documents to provide and install a complete and functional exterior grade LED screen with controls for the LED screen in the Guard house. This work includes, but is not limited to, selective electrical work and electrical ductbank, installation of a metal tubular frame to support the LED screen mounted in appropriately sized concrete foundation, miscellaneous brackets, and paint primer and finish coats for the supporting tubular steel frame.

Measurement: Measurement will be based on completion of the work described and accepted by the Contracting Officer Technical Representative (COTR).

Payment: Payment for item will be in accordance with the specifications.

Bid Item 72: Cable Barrier Landscape Shrubbery & Planters Shrubbery

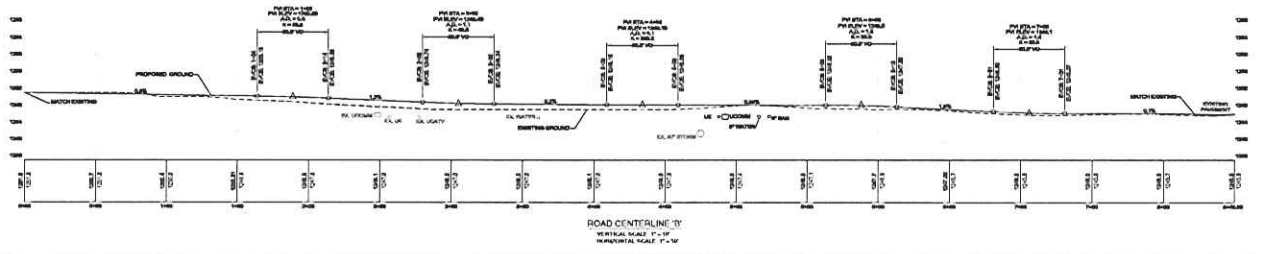
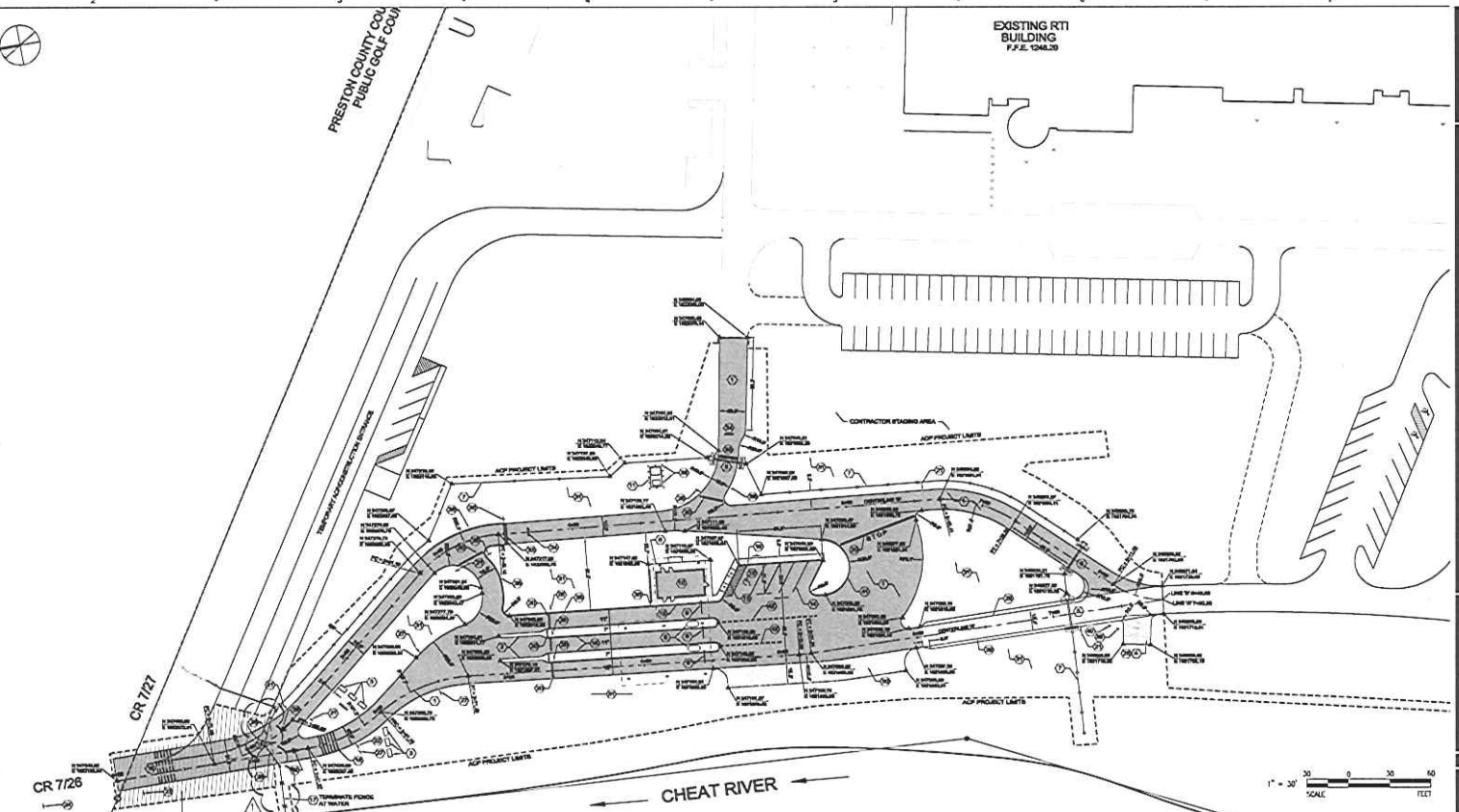
Unit: Lump Sum (LS)**Description:** This item includes furnishing and installing all plant materials including but not limited to shrubs as noted on the plans and as specified (including those in the Concrete Planter/Barriers). These prices shall fully compensate the contractor for providing all planting and incidentals to complete the item.**Measurement:** Measurement shall be based on completion of work described and accepted by the COTR.**Payment:** Payment shall be made at the contract unit price per lump sum.**Bid Item 73: Conduit Stub-ups for Biometrics**

Unit: Lump Sum (LS)**Description:** The item consists of any and all materials, equipment and labor for items required by the contract documents to provide and install five (5) runs of conduit and pull string in each conduit at the locations shown on the plans. The five (5) 1" conduits radiate from the new Guardhouse. One (1) main conduit with pull string feeds the Guardhouse from the existing RTI and will be installed under this contract. Coordinate with JITEC/RTI contractor to run the main conduit from the RTI to the new ACP. At the termination of each of the five (5) radiating conduit stub ups install five (5) 2" OD galvanized steel posts 3' 6" high set in concrete foundations so that the 1" conduit terminates inside the base of the galvanized steel posts. The pull string shall protrude through the top of the five galvanized posts and be secured for future pulling of cable not in contract. Close off ends of galvanized steel tubes with brightly colored plastic cap fittings to prevent water and insect access.**Measurement:** Measurement will be based on completion of the work described and accepted by the Contracting Officer Technical Representative (COTR).**Payment:** Payment for item will be in accordance with the specifications.**END OF SECTION**

EXHIBIT 3

- LEGEND:**
- UTILITY WELL
 - BURIED TV CABLE
 - BURIED ELECTRIC
 - BURIED COMMUNICATIONS LINE
 - STORM SEWER MANHOLE
 - BURIED WATER LINE
 - WATER VALVE
 - FIRE HYDRANT
 - AERIAL ELECTRIC LINE
 - AERIAL TV CABLE
 - AERIAL TELEPHONE CABLE
 - AERIAL FIBER OPTIC LINE
 - BURIED GAS LINE
 - GAS VALVE
 - SANITARY SEWER LINE
 - STORM SEWER MANHOLE
 - GROUND LEVEL LIGHT
 - FLOOD LIGHT
 - TREE
 - SMALL TREE / SHRUB
 - CABLE BARRIER
 - △ CONTROL POINT
 - CHAIN LINK FENCE
 - TELEPHONE (OVERHEAD)
 - BILLBOARD
 - LIGHT POLE
 - UTILITY POLE

- LAYOUT KEY:**
- ① TYPE ASPHALT PAVEMENT - SEE DETAIL 143 SHT. C16
 - ② EAST IN PLACE ASPHALT PAVEMENT - SEE DETAIL 143 SHT. C16
 - ③ CONCRETE PAVEMENT / BARRIERS - SEE DETAIL 143 SHT. C16
 - ④ CONCRETE PAVEMENT - SEE DETAIL 143 SHT. C16
 - ⑤ 1/2" DROP GRANULAR BARRIER - SEE DETAIL 6 SHT. C17
 - ⑥ CONCRETE WALK - SEE DETAIL 11 SHT. C18
 - ⑦ CABLE BARRIER - SEE DETAIL 4 SHT. C14
 - ⑧ ROUND HOUSE - SEE ARCHITECTURAL DRAWINGS
 - ⑨ AUTOMATIC GATE (VALVE/IRVATE #) - SEE DETAIL 1 SHT. C14 & DTL. 4 SHT. C17
 - ⑩ VISITOR CONTROL CENTER - SEE ARCHITECTURAL DRAWINGS
 - ⑪ EQUIPMENT PAD - SEE DETAIL 9 SHT. C13
 - ⑫ HANDICAP PARKING SPACE - SEE DETAIL 4 SHT. C12
 - ⑬ CURB RAMP - SEE DETAIL 14 SHT. C16
 - ⑭ PARKING SPACE & STRIPING - SEE DETAIL 7 SHT. C10
 - ⑮ EAST IN PLACE BARRIER ISLAND
 - ⑯ 1/2" DOUBLE BARRIER GATE - SEE SHEET C17
 - ⑰ 1/2" CONCRETE FENCE - SEE DETAIL 6 & 7 SHT. C18
 - ⑱ RAISED PLUMBABLE STRIP - SEE DETAIL 12 SHT. C18
 - ⑲ SIDEWALK WITH INTEGRAL CURB - SEE DETAIL 13 SHT. C18
 - ⑳ 1/2" STOP BAR - SEE DETAIL 8 SHT. C18
 - ㉑ ONE WAY DO NOT ENTER SIGN - SEE DETAIL 1 SHT. C18
 - ㉒ TRUCKS LANE CENTER LANE SIGN - SEE DETAIL 3 SHT. C18
 - ㉓ REVERSIBLE TRAFFIC SIGN - SEE DETAIL 1 SHT. C18
 - ㉔ REDUCE SPEED AHEAD SIGN - SEE DETAIL 1 SHT. C18
 - ㉕ WAIT FOR SIGNAL SIGN - SEE DETAIL 1 SHT. C18
 - ㉖ STOP SIGN - SEE DETAIL 1 SHT. C18
 - ㉗ RETURN TO ROUTE 1 SIGN - SEE DETAIL 1 SHT. C18
 - ㉘ OPERATOR POSITION
 - ㉙ WHITE EDGE LINE - SEE DETAIL 4 SHT. C18
 - ㉚ TRUCK INSPECTION LANE (HANDSTAND PAVEMENT) - SEE DETAIL 1 SHT. C18
 - ㉛ TRUCK LANE - SEE TRUCKS AND OPERATOR POSITION FOR REQUIREMENTS
 - ㉜ TRAFFIC CONTROL ARROW - SEE DETAIL 9 SHT. C18
 - ㉝ HIGHWAY TRAFFIC SPIKE - SEE DETAIL 10 SHT. C18
 - ㉞ RECYCLED RUBBER SPEED BUMP - SEE DETAIL 1 SHT. C18
 - ㉟ 1/2" FRESH CONCRETE CURB - SEE DETAIL 4 SHT. C18
 - Ⓜ BRIDGEWAY - SEE THE DAMAGE SIGN - SEE DETAIL 3 SHT. C18
 - Ⓝ LED SIGN - SEE ARCHITECTURAL PLANS
 - Ⓞ 1/2" INKLAND - SEE DETAIL 6 SHT. C18
 - Ⓟ GATE CONTROLLER CONNECTION - SEE TY 11 FOR DETAILS
 - Ⓠ LIGHT POLE INSULATED ELECTRICAL RECEPTACLE - SEE E11 FOR DETAILS
 - Ⓡ EAST IN PLACE CURB - SEE DETAIL 3 SHT. C18
 - Ⓢ PAVEMENT MARKING - SEE DETAIL 15 SHT. C18



CLIENT

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STATUS 01/16/2013 ADDENDUM #3

ISSUE

DATE	DESCRIPTION	PREPARED BY	CHECKED BY
01/16/13	RELOCATED CURBLINE, FENCE, AND SIGN		

REVISED BY: []
DATE: []
DRAWN BY: []
CHECKED BY: []

KEY PLAN

SHEET TITLE

LAYOUT PLAN & ROAD PROFILE

C2.0

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LEGEND

- UTILITY WELL
- BURIED TV CABLE
- BURIED ELECTRIC
- BURIED COMMUNICATIONS LINE
- STORM SINKER MANHOLE
- BURIED WATER LINE
- WATER VALVE
- FIRE HYDRANT
- AERIAL ELECTRIC LINE
- AERIAL TV CABLE
- AERIAL TELEPHONE CABLE
- AERIAL FIBER OPTIC LINE
- BURIED GAS LINE
- GAS VALVE
- SANITARY SINKER LINE
- SANITARY SINKER MANHOLE
- GROUND LEVEL LIGHT
- FLOOD LIGHT
- TREE
- SMALL TREE / SHRUB
- CABLE BARBER
- CONTROL POINT
- CHAIN LINK FENCE
- TELEPHONE (OVERHEAD)
- BOLLARD
- LIGHT POLE
- UTILITY POLE

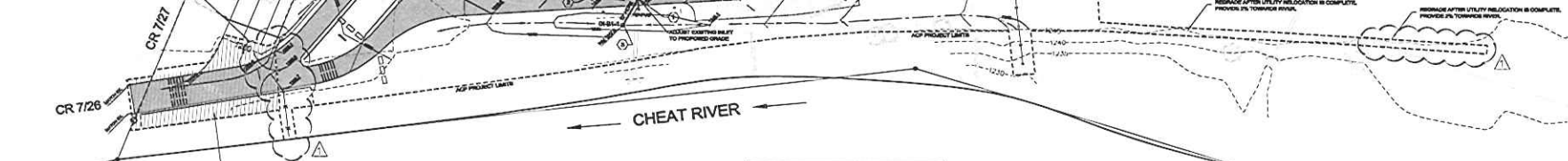
INLET KEY

- ① ADORPH INLET - SEE DETAIL 1 SHIT CHS
- ② TYPE B INLET - SEE DETAIL 1 SHIT CHS
- ③ 1" FIBER DRAIN - SEE DETAIL 3 SHIT CHS
- ④ TYPE B INLET (ADORPH) - SEE DETAIL 1 SHIT CHS

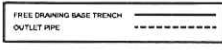
STRUCTURE COORDINATES

DROP INLET	NORTHING	EASTING
A1	N 347123.26	E 1921972.11
A1-1	N 347043.28	E 1921910.32
A1-1A	N 347063.82	E 1921963.56
A1-2	N 346959.43	E 1921818.84
A2	N 347163.39	E 1922006.64
A2-1	N 347188.07	E 1921971.73
A2-2	N 347195.84	E 1921967.23
A2-3	N 347215.30	E 1921942.72
A3	N 347218.66	E 1922047.34
A4	N 347278.88	E 1922093.29
B1	N 347190.64	E 1921918.85
B1-1	N 347206.88	E 1921958.26

TRANSITION PLUNIONS FROM UTILITY ACIP
 ROAD TO TEMPORARY CONSTRUCTION
 PERFORMANCE WITHIN DESIGNATED
 APPROVAL AT A MINIMUM 90% SLIGHT

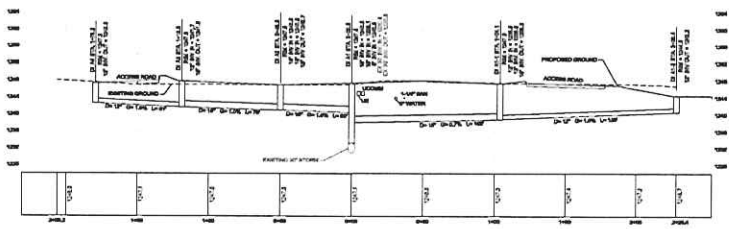


- 1. WORK IN THIS AREA WILL NOT OCCUR UNTIL THE ACIP IS COMPLETED
- 2. WORK IN THIS AREA MUST BE APPROVED AT LEAST BY DATE BRIDGEWORK BY THE OWNER
- 3. TRAFFIC IN THIS AREA MUST BE MAINTAINED AT ALL TIMES

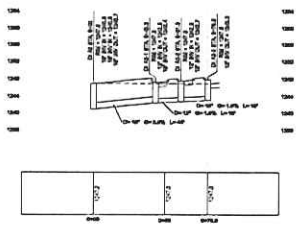


STORMWATER STRUCTURE SCHEDULE

NO.	INLET	INVERT IN	INVERT BY	INVERT TO	INVERT OUT
A1	1247.9	1247.9	1247.9	1247.9	1247.9
A1-1	1247.9	1247.9	1247.9	1247.9	1247.9
A1-1A	1247.9	1247.9	1247.9	1247.9	1247.9
A1-2	1247.9	1247.9	1247.9	1247.9	1247.9
A2	1247.9	1247.9	1247.9	1247.9	1247.9
A2-1	1247.9	1247.9	1247.9	1247.9	1247.9
A2-2	1247.9	1247.9	1247.9	1247.9	1247.9
A2-3	1247.9	1247.9	1247.9	1247.9	1247.9
A3	1247.9	1247.9	1247.9	1247.9	1247.9
A4	1247.9	1247.9	1247.9	1247.9	1247.9
B1	1247.9	1247.9	1247.9	1247.9	1247.9
B1-1	1247.9	1247.9	1247.9	1247.9	1247.9



STORM LINE 'A'
 VERTICAL SCALE: 1" = 10'
 HORIZONTAL SCALE: 1" = 30'



STORM LINE 'A2'
 VERTICAL SCALE: 1" = 10'
 HORIZONTAL SCALE: 1" = 30'



NO.	DATE	DESCRIPTION
1	01/16/13	FINAL BIDDING DOCS

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: DEFK13007

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|---|--|
| <input type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Company

Authorized Signature

Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.
 Revised 6/8/2012