

ATTACHMENT

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BID FORM

SECTION I – BASE BID AND ALTERNATES

DATED: _____
 (Bidder to insert date bid submitted)

SUBMITTED BY: (Name and Address)

WEST VIRGINIA CONTRACTOR LICENSE NUMBER: WV _____

SUBMITTED TO: State of West Virginia

The undersigned, being familiar with local conditions affecting the cost of the work and the contract documents, including Instructions to Bidders, Bid Form, General Conditions, Drawings, and Specifications and any Addenda issued, hereby propose to perform everything required to be performed and to provide and furnish all the labor, materials, tools, expendable equipment and all services necessary to complete in a workmanlike manner all the work required for:

**The Logan-Mingo Readiness Center
 West Virginia Army National Guard
 Logan-Mingo Counties, West Virginia**

all in accordance with the Drawings and Specifications as prepared by ZMM, Inc. Architects and Engineers, 222 Lee Street West, Charleston, West Virginia 25302, (304) 342-0159.

BASE BID:

For the sum of: _____
 _____ (\$ _____).

ALTERNATES:

The Owner may or may not select the deductive alternates.

The contract will be awarded based on the grand total of the Base Bid, the Deductive Alternates if selected, and any Alternate Bid Items. Owner will select Alternate Bid Items in the order presented in the bid documents, and Owner reserves the right to accept or reject the alternate bid(s) if the costs exceed the amount budgeted for the Project. This language supersedes any language contained in the AIA A701 with reference to the acceptance of bid (award).

(‘Provide’ means ‘furnish and install.’ Include in bids below all related coordination and modification requirements associated with the Work of each Alternate.)

Refer to Section 01030 “Alternates” for description of Alternates.

Deduct Alternates:

Deduct Alternate Bid No. 1 – Generator

DEDUCT the sum of: _____

_____ (\$ _____).

Deduct Alternate Bid No. 2 – POV Parking Gravel Pavement

DEDUCT the sum of: _____

_____ (\$ _____).

Add Alternates – Federally Funded:

Add Alternate Bid No. 3 – Vehicle Wash Rack

ADD the sum of: _____

_____ (\$ _____).

Add Alternate Bid No. 4 – Operable Partitions in Classrooms

ADD the sum of: _____

_____ (\$ _____).

Add Alternate Bid No. 5 – Acoustical Ceiling Treatment in Drill Hall

ADD the sum of: _____

_____ (\$ _____).

Add Alternate Bid No. 6 – Acoustical Wall Treatment in Drill Hall

ADD the sum of: _____

_____ (\$ _____).

Add Alternate Bid No. 7 – Interior Brick

ADD the sum of: _____

_____ (\$ _____).

Add Alternate Bid No. 8 – Gravel Maintenance Strip

ADD the sum of: _____

_____ (\$ _____).

Add Alternate Bid No. 9 – FSC Certified Wood as specified**ADD the sum of:**

(\$ _____).

Add Alternate Bid No. 10 – Overhead Crane in Maintenance Work Bay**ADD the sum of:**

(\$ _____).

Add Alternates – State Funded:**Add Alternate Bid No. 11 – Security Fencing Upgrade.****ADD the sum of:**

(\$ _____).

Add Alternate Bid No. 12 – Additional Kitchen Equipment.**ADD the sum of:**

(\$ _____).

Add Alternate Bid No. 13 – Flooring Upgrade in Drill Hall**ADD the sum of:**

(\$ _____).

If awarded contract on Base Bid and any Alternates, I (we) agree to perform the work including base bid and all alternates to substantial completion (or-beneficial occupancy) in **728** days. The Bidder understands that the Owner may impose liquidated damages in the amount stated in and, in accordance with, the Special Conditions, for each day thereafter, Sundays and holidays included, that the Work remains uncompleted, which sum is agreed upon as the proper measure of liquidated damages which the Owner will sustain per diem by the failure of the Bidder to complete the Work in the stipulated time, and the sum is not to be construed in any sense a penalty. Liquidated damages will be assessed at substantial completion for the base bid and all alternates accepted by the Government.

It is hereby certified that the undersigned is the only person(s) interested in this proposal as principal, and the proposal is made without collusion with any person, firm, or corporation. Bidder hereby agrees to execute the contract and furnish surety company bonds, in the forms incorporated in the contract documents, in the amount of one hundred (100%) percent of the contract price for performance, including maintenance, and for payment for labor and materials, respectively at the time required by the bidding documents, and to begin work within five (5) days following receipt of Notice to Proceed.

The Bidder certifies that this bid has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this bid with any other bidder or with any competitor. The Bidder agrees that the Owner reserves the right to reject any or all bids, and to waive any formalities in the bidding. The Bidder agrees that this bid shall be good and may not be withdrawn for a period of 90 days.

The Bidder acknowledges receipt of the following Addenda: (Please list by number and date.)

Bidder guarantees that, if awarded the contract, he will furnish and deliver all materials, tools, equipment, tests, transportation, secure all permits and licenses, and perform all labor, superintendence and all means of construction, pay all fees, except those specifically excluded in the Project Manual and do all incidental work to execute, construct, and finish the work in an expeditious, substantial, and workmanlike manner, in accordance with the contract documents to the complete satisfaction and acceptance of the Owner, for the prices stated.

It is understood that the Owner reserves the right to reject any/or all proposals, or part thereof or items therein, and to waive technicalities as required for the best interests of the Owner. It is further understood that competency and responsibility of bidders will receive consideration before the award of the contract.

The undersigned agrees that the contract documents are incorporated herein by reference and shall be construed to be part thereof, with the same affect as if such were repeated at length herein, or where physically attached hereto. The undersigned further certifies that: (1) this proposal is genuine and is not sham, collusive, or fraudulent; (2) this proposal is not made in the interest or in behalf of any person other than the undersigned; (3) the undersigned has not sought in any manner, by collusion or otherwise, to secure any advantage over any other bidders.

Enclosed herewith is a bid security prepared in accordance with the Instructions to Bidders in the amount of five percent (5%) of the amount of the bid (being not less than 5% of the total of the base bid). We agree that the above stated amount is the proper measure of liquidated damages which the owner will sustain by our failure to execute the contract and to furnish the performance bond in case this proposal is accepted.

SIGNATURE OF BIDDER:

Firm: _____	By: _____
Address: _____	Title: _____
Address: _____	Phone: _____
Address: _____	Fax: _____

END OF SECTION I

SECTION II - BID ITEMS AND UNIT COSTS

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.

Bid items with the same number must include the same unit price.

NO.	ITEM	QTY	UNIT	UNIT PRICE (\$)	EXTENDED PRICE (\$)
Primary Facility Base Bid					
1	Readiness Center	1	LS		
2	Unheated Storage Building	1	LS		
PRIMARY FACILITY BASE BID SUB-TOTAL					
Project Administration/Quality Control Base Bid					
3	Mobilization/Demobilization	1	LS		
4	General Administration	1	LS		
5	Project Quality Control	1	LS		
PROJECT ADMIN/QUALITY CONTROL SUB-TOTAL					
Civil/Site Base Bid					
Site Preparation					
6	WVDOH Encroachment Permit (Allowance)	1	LS	\$5,000.00	\$5,000.00
7	Site Preparation	1	LS		
8	Sediment and Erosion Control	1	LS		
9	Retention Pond	1	LS		
10	Waste Disposal	5	TN		
11	Deep Dynamic Compaction Program	1	LS		
12	Settlement Monitoring	1	LS		
Earthwork					
13	Unclassified Excavation	1	LS		
14	Subgrade Preparation	27,089	SY		
15	Soil Drying	200	TN		
16	Soil Conditioning - 12"	500	SY		
17	Over-Excavation	200	SY		
18	Topsoil	2,436	CY		
Roads and Paving					
19	6" Concrete Paving	5,355	SY		
20	7" Concrete Paving	8,085	SY		
21	Free Draining Base Trench and Piping	2,738	LF		

NO.	ITEM	QTY	UNIT	UNIT PRICE (\$)	EXTENDED PRICE (\$)
22	Hardstand Paving	6,030	SY		
23	Pavement Marking	1	LS		
24	Wheel Stops	153	EA		
25	Concrete Curbing	1,074	LF		
26	Signage	1	LS		
27	Gravel Road	862	SY		
28	Gravel Apron	989	LF		
Miscellaneous					
29	Sidewalk	1,260	SY		
30	Type I Lawn	1	LS		
31	Not Used	--	--		
32	Not Used	--	--		
33	30' Swing Gate	1	EA		
34	24' Sliding Gate	2	EA		
35	20' Sliding Gate	1	EA		
36	16' Double Swing Gate	1	EA		
37	Security Fencing	1,941	LF		
38	40' Flagpole	2	EA		
39	Retaining Wall	63	LF		
40	Precast Stone Retaining Wall	956	LF		
41	Oil/Water Separator	1	EA		
42	Loading Ramp	1	LS		
43	Bollards 8"	30	EA		
44	Bollards Removeable	6	EA		
45	Trash Enclosure	1	LS		
46	Fuel Truck Pad	1	LS		
Water					
47	1" PVC Water	419	LF		
48	4" PVC Water	861	LF		
49	6" PVC Water	1,166	LF		
50	10" PVC Water	845	LF		
51	12" PVC Water	471	LF		
52	PIV	1	EA		
53	Fire Hydrant	4	EA		
54	Water Vault	1	EA		
Sewer					
55	Manholes, Sanitary Sewer	131	VF		
56	Frame and Cover, Sanitary Sewer	20	EA		
57	3" PVC Sanitary Sewer	107	LF		
58	4" PVC Sanitary Sewer	440	LF		
59	6" PVC Sanitary Sewer	358	LF		
60	8" PVC Sanitary Sewer	1,832	LF		
61	8" DIP Sanitary Sewer	42	LF		

NO.	ITEM	QTY	UNIT	UNIT PRICE (\$)	EXTENDED PRICE (\$)
62	Cleanout, Sanitary Sewer	6	EA		
Gas					
63	4" Gas Service Line	229	LF		
Storm Drainage					
64	4" PVC Storm	105	LF		
65	6" PVC Storm	1,496	LF		
66	8" PVC Storm	468	LF		
67	12" PVC Storm	695	LF		
68	15" PVC Storm	591	LF		
69	12" HDPE Storm	146	LF		
70	18" HDPE Storm	639	LF		
71	24" HDPE Storm	545	LF		
72	30" HDPE Storm	491	LF		
73	Type 1 Ditch	300	LF		
74	Type 3 Ditch	1,176	LF		
75	Type 4 Ditch	2,015	LF		
76	Junction Box	2	EA		
77	Type "B" Drop Inlet	8	EA		
78	Type "G" Drop Inlet	2	EA		
79	12" Yard Drain	6	EA		
80	Drain Basin	21	EA		
81	Trench Drain and Grate	25	LF		
82	Concrete Headwall	2	EA		
Power and Communications					
83	Electrical Duct Bank Type 1	24	LF		
84	Electrical Duct Bank Type 2	24	LF		
85	Electrical Duct Bank Type 3	162	LF		
86	Combined Duct Bank Type 1	177	LF		
87	Combined Duct Bank Type 2	139	LF		
88	Communications Duct Bank Type 1	17	LF		
89	Transformer Pad	1	LS		
90	Not Used	--	--		
CIVIL/SITE BASE BID SUB-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					
NO.	ITEM	QTY	UNIT	UNIT PRICE (\$)	EXTENDED PRICE (\$)
Deduct Alternates					
Alternate #1 - Generator					
91	Generator	-1	LS		
Alternate #1 Total					
Alternate #2 - POV Parking Gravel Pavement - Hardstand Paving In Lieu Of 6" Concrete Paving					
22	Hardstand Paving	5,355	SY		
19	6" Concrete Paving (deduct)	-5,355	SY		
Alternate #2 Total					
Add Alternates - Federally Funded					
Alternate #3 - Vehicle Wash Rack					
92	Vehicle Wash Rack	1	LS		
Alternate #3 Total					
Alternate #4 - Operable Partitions in Classrooms					
93	Operable Partitions	1	LS		
Alternate #4 Total					
Alternate #5 - Acoustical Ceiling Treatment in Drill Hall					
94	Acoustical Ceiling Treatment	1	LS		
Alternate #5 Total					
Alternate #6 - Acoustical Wall Treatment in Drill Hall					
95	Acoustical Wall Treatment	1	LS		
Alternate #6 Total					
Alternate #7 - Interior Brick					
96	Interior Brick	1	LS		
Alternate #7 Total					
Alternate #8 - Gravel Maintenance Strip					
97	Gravel Maintenance Strip	801	LF		
Alternate #8 Total					

Alternate Bid Items, continued					
NO.	ITEM	QTY	UNIT	UNIT PRICE (\$)	EXTENDED PRICE (\$)
Alternate #9 - Certified Wood					
98	Certified Wood	1	LS		
Alternate #9 Total					
Alternate #10 - Overhead Crane in Maintenance Work Bay					
99	Overhead Crane	1	LS		
Alternate #10 Total					
Add Alternates - State Funded					
Alternate #11 - Security Fencing Upgrade					
100	Security Fencing Upgrade	1	LS		
Alternate #11 Total					
Alternate #12 - Additional Kitchen Equipment					
101	Additional Kitchen Equip.	1	LS		
Alternate #12 Total					
Alternate #13 - Flooring Upgrade in Drill Hall					
102	Drill Hall Flooring	1	LS		
Alternate #13 Total					

END OF SECTION II

SECTION III – DESCRIPTION OF BID ITEMS

Bid Item 1:	Readiness Center
Unit:	Lump Sum (LS)
Description:	<p>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 Readiness Center building and/or assembly as shown under Base Bid in the Drawings and Specifications. The Readiness Center includes lobbies, corridors, administration space, recruiting and family support space, educational facilities, storage, locker rooms, physical training rooms, mail rooms, drill halls, toilets, janitor closets, as well as mechanical, electrical, and data rooms.</p> <p>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. 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. This work also includes, but is not limited to: building excavation; backfill; foundation systems; gravel dry beds; up to 40 cubic yards of lean concrete backfill, concrete; masonry; veneer brick; structural steel; metal stud framing; pre-engineered metal trusses; carpentry and wood decking; waterproofing; insulation; roofing; interior and exterior walls; railings; doors; windows; finishes; casework; mechanical systems; electrical systems; fire suppression system; fire alarm; and data systems. The full extent of this work is defined by the Contract Documents, including the Drawings and Project Manual, dated August 1, 2012 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.</p>
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:	Unheated Storage Buildings
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 Unheated Storage Buildings 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 perimeter. 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. This work also includes, but is not limited to: building excavation; backfill; foundation systems; gravel dry beds; concrete; pre-engineered metal storage buildings; and electrical systems. The full extent of this work is defined by the Contract Documents, including the Drawings and Project Manual, dated August 1, 2012 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 3: Mobilization/Demobilization

Unit: Lump Sum

Description: This work shall consist of the performance of 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; establishment and removal of the contractor's field office and storage facilities, including fenced enclosure of staging area.

Measurement: Measurement will be based on completion of the work described, prorated from lump sum amounts according to the Basis of Payment below.

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 4: General Administration

Unit: Lump Sum

Description: This work shall consist of performing the construction administrative duties associated with managing the construction as stated in Division 1 and throughout the Specifications, providing construction layout, providing temporary utilities for the site and coordination of permanent utility installation and tie-in of site grading and access roads, administration and maintenance of all required permits for the project, including permit fees, and Business and Occupation Taxes.

Measurement: Measurement will be based on completion of the work described, prorated from lump sum amounts according to the Basis of Payment below.

Payment: This item will be paid for at the contract lump sum price, based on percentage of contract completion.

Bid Item 5: Project Quality Control

Unit: Lump Sum**Description:** This work shall consist of establishing and maintaining a Quality Control Program throughout the duration of the project.**Measurement:** There will be no direct measurement of materials, labor, and services provided by the Contractor in completing this item.**Payment:** This item will be paid for at the contract lump sum price, based on percentage of completion.**Bid Item 6: WVDOH Encroachment Permit(s) (Allowance)**

Unit: Lump Sum (LS) (Allowance)**Description:** This work shall consist of obtaining encroachment permit(s) for the sanitary sewer extension, grading, and stormwater drainage on WVDOH right of ways as shown on the Plans or as required by the WVDOH. 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 work, but will be reimbursed the actual permit fee(s). The contractor shall submit an estimate for the permit(s) to the COTR for approval prior to submitting the application(s).**Payment:** This item shall be reimbursed by submitting the permit fee(s) receipt(s), based on acceptance of the encroachment(s) by the WVDOH and the COTR.**Bid Item 7: Site Preparation**

Unit: Lump Sum (LS)**Description:** This work shall consist of the removal of trees and other vegetation, topsoil stripping and stockpiling, removal of existing utilities, installation of temporary utilities, demolition, temporary safety fence, 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 at the contract unit price per lump sum.**Bid Item 8: 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 of a modification to the existing WV NPDES permit, 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 issuance of a modification to the existing WV NPDES Construction Stormwater Permit and installation of best management practices required by the approved Stormwater Pollution Prevention Plan. 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 termination of the WV NPDES permit by the WVDEP for properly stabilizing the site, demobilization, and final completion of the Project.

Bid Item 9: Retention Pond

Unit: Lump Sum (LS)

Description: This work shall consist of constructing the retention ponds as shown in the Plans. The work includes excavation, importation of soils, concrete, backfill, inlet and outlet structures, pipes, outlet protection, sediment removal and maintenance. 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 shall 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 per lump sum.

Bid Item 10: Waste Disposal

Unit: Ton (TN)

Description: This work shall include, but is not limited to, disposal of rubbish, trash, scrap, and other materials encountered at the site that require disposal at a sanitary landfill. The work includes sorting, loading, hauling, and disposal. 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 as evidenced by weigh tickets from a legally operating sanitary landfill and certified by the contractor to be correct.

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

Bid Item 11: Deep Dynamic Compaction (DDC) Program

Unit: Lump Sum (LS)

Description: This work shall consist of improving the strength and compressibility characteristics of subsurface soils by providing deep dynamic compaction for the buildings and structures shown on the plans and as specified in the contract documents. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, engineering support, supervision, and quality control required to complete the work.

Measurement: There shall 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 per lump sum.

Bid Item 12: Settlement Monitoring Program

Unit: Lump Sum (LS)

Description: This work shall consist of developing and then executing a settlement monitoring program for all areas at the site modified by DDC. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, engineering support, supervision, and quality control required to complete the work.

Measurement: There shall 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 per lump sum.

Bid Item 13: Unclassified Excavation

Unit: Lump Sum (LS)

Description: This work shall consist of, but is not limited to, 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 "Over-Excavation".

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 shall 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 per lump sum.

Bid Item 14: 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 15: 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 16: Soil Conditioning – 12”**

Unit: Square Yard (SY)**Description:** This work shall include, but is not limited to, scarifying, lime application, mixing, compacting and rolling areas of existing satisfactory soils with high moisture content to a depth of 12” in locations directed by the COTR. The required demonstration of proposed techniques on test pads 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:** 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 17: 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 18: Top Soil****Unit:** Cubic Yard (CY)**Description:** This work shall consist of, but is not limited to, furnishing, amending, placing and fine grading imported topsoil in the areas indicated 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: The method of measurement for determining the quantity of topsoil will be by multiplying the area topsoiled by an average depth measurement taken in the field. A minimum of one depth measurement per 10,000 sf (100' x 100') will be used to determine the coverage depth.**Payment:** This item will be paid for at the contract unit price per cubic yard.**Bid Items 19-20: Concrete Paving, 6"; Concrete Paving, 7"****Unit:** Square Yard (SY)**Description:** This work consists of furnishing and complete installation of Portland cement concrete pavement, reinforcing, joints, sealants, geotextile fabric, and No. 57 aggregate 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 21: 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 22: Hardstand Paving

Unit: Square Yard (SY)

Description: This work includes, but is not limited to, furnishing and complete installation of AASHTO #1 and WVDOH Class 1 aggregates, and heavy duty woven geotextile for pavements. 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 23: 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 1,000 sq ft for miscellaneous marking as directed by the COTR. It shall include, but is not limited to, edge lines, center lines, handicapped symbols, parking lines, 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 24: 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 Item 25: Concrete Curbing

Unit: Linear Foot (LF)**Description:** This work shall include, 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: Gravel Road**

Unit: Square Yard (SY)**Description:** This work shall consist of installation of the gravel access road in locations specified on the plans or as directed by the COTR. Gravel road work includes excavation, geotextile fabric, stone, 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 square yard of paving in place, completed, and accepted by the COTR.**Payment:** This item shall be paid for at the contract price per square yard.**Bid Item 28: Gravel Apron**

Unit: Linear Foot (LF)**Description:** This work shall consist of installation of the gravel apron for the Military Equipment Parking area in locations specified on the plans or as directed by the COTR. Gravel apron work includes excavation, geotextile fabric, stone, 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 gravel apron in place, completed, and accepted by the COTR.**Payment:** This item shall be paid for at the contract price per linear foot.

Bid Item 29:	Sidewalk
Unit:	Square Yard (SY)
Description:	This work shall consist of furnishing and installing welded wire mesh reinforcing, 4,500 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 Items 30:	Type I Lawns
Unit:	Lump Sum (LS)
Description:	This work shall consist of lawns as shown on the Drawings and specified in Section 02920, "Lawns and Grasses". The bid item shall include fine grading and preparing lawn areas, furnishing and applying soil amendments and fertilizers, seeding 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 Items 31-32:	Not Used
Bid Items 33-36:	30' Swing Gate, 24' Sliding Gate, 20' Sliding Gate, 16' Double Swing Gate
Unit:	Each (EA)
Description:	This work consists of furnishing and complete installation of various types of gates 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:	Security Fencing
Unit:	Linear Foot (LF)

Description: This work consists of furnishing and complete installation of chain link fencing 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 38: 40' Flagpole

Unit: Each (EA)

Description: This item includes furnishing and installing the 40' aluminum flagpole in front of the facility. The foundation, including excavation, aggregate, concrete and miscellaneous hardware are incidental to 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: There shall 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 each.

Bid Item 39: Retaining Wall

Unit: Linear Foot (LF)

Description: This item of work is a steel-reinforced cast in place concrete retaining wall. Excavation, backfill, and associated subsurface drainage are 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: 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 40: Precast Stone Retaining Wall

Unit: Linear Foot (LF)

Description: This item of work consists of furnishing and installing precast concrete block exterior walls as shown on the Plans. Excavation, gravel foundations, backfill, and associated subsurface drainage are 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: 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 41:	Oil/Water Separator
Unit:	Each (EA)
Description:	This work consists of furnishing and complete installation of an underground separator designed for gravity separation of free oils (hydrocarbons and other petroleum products) and settleable solids from wastewater. Excavation, backfill, concrete pad, bedding material, manways, piping and fittings to a point beyond the outline of the tank, alarm and control panel, electrical and data wiring, and vent piping are 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:	Measurement shall be based on completion of the work described according to the Basis of Payment below.
Payment:	Payment shall be made at the contract unit price for each.
Bid Item 42:	Loading Ramp
Unit:	Lump Sum (LS)
Description:	This item of work is a cast-in-place reinforced concrete loading ramp with two levels. The aggregate, backfill, dock bumpers, excavation and soil backfill, and any other ancillary equipment required are 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:	There shall be no direct measurement for 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 43–44:	Bollards 8", Bollards Removable
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 45:	Trash Enclosure
Unit:	Lump Sum (LS)
Description:	This work shall consist of constructing a pad and walls at the back of the main building as shown in the Plans. Excavation, concrete, aggregate base, walls, associated drainage structures, piping, pipe sleeves, conduits, and other ancillary equipment 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: 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 46: Fuel Truck Pad

Unit: Lump Sum (LS)

Description: This work shall consist of a cast-in-place concrete fuel truck pad as shown in the Plans. 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: 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 47-51: Water Line, PVC – 1”, 4”, 6”, 10” and 12”

Unit: Linear Foot (LF)

Description: This work shall consist of furnishing and installing various sizes of water line. These prices shall fully compensate the Contractor for providing pipe, fittings, valves, bedding, excavation, backfill, concrete thrust blocks, concrete encasement, steel casing pipe, asphalt repair, curb stops, flushing, testing, coordination with the Mingo County Public Service District and agencies having jurisdiction 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 52: PIV

Unit: Each (EA)

Description: This work consists of furnishing and complete installation of Post Indicator Valves. The unit price shall include furnishing and installing the valves, 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 PIV acceptably installed.

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

Bid Item 53: 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 54: Water Vault****Unit:** Each (EA)**Description:** This work consists of furnishing, placing and installing the precast concrete vault, bedding, backfill, water meter, backflow preventer and associated valves and appurtenances 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 per water meter pit installed and accepted by the COTR and authorities having jurisdiction.**Payment:** Payment shall be made at the contract price per each.**Bid Item 55: Manholes, Sanitary Sewer****Unit:** Vertical Foot (VF)**Description:** This work shall include, but is not limited to, installing pre-cast concrete manholes at the locations specified in the plans. Excavation, bedding, manhole section and grade ring installation, backfill, and testing and inspection 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 vertical feet of manhole in place, as measured from the invert to the top of concrete or spacer ring, completed and accepted by the COTR and authorities having jurisdiction.**Payment:** Payment shall be made at the contract unit price per vertical foot.**Bid Item 56: Frame & Cover, Sanitary Sewer****Unit:** Each (EA)**Description:** This work consists of furnishing, placing and installing the frame and cover for sanitary manholes 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 per frame and cover installed and accepted by the COTR.

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

Bid Items 57-61: PVC Sanitary Sewer, 3", 4", 6", and 8"; DIP, 8"

Unit: Linear Foot (LF)

Description: This work shall consist of furnishing and installing various sizes of sanitary sewer piping. These prices shall fully compensate the Contractor for providing pipe, bedding, excavation, backfill, fittings, cleanouts, casing pipes, pavement repairs, testing and coordination with the Mingo County Public Service District 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 piping in place, completed, and accepted by the COTR. It shall be measured along the centerline and shall include all fittings, appurtenances, and cleanouts associated with the sanitary sewer piping.

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

Bid Item 62: Cleanout, Sanitary Sewer

Unit: Each (EA)

Description: This work consists of furnishing and complete installation of cleanout. The unit price shall include furnishing and installing pipe, fittings, 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 Item 63: 4" Gas Service Line

Unit: Linear Foot (LF)

Description: This work shall consist of furnishing and installing 4" gas lines from the building to point of connection on the Plans. These prices shall fully compensate the Contractor for providing pipe, bedding, excavation, backfill, valves, existing utility tie-ins, pavement restoration, and casing pipes. 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 gas 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 gas line.

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

Bid Items 64-68: Storm Line, PVC – 4”, 6”, 8”, 12”, and 15”**Unit:** Linear Foot (LF)**Description:** This work consists of the furnishing and complete installation of PVC 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 69-72: Storm Line, HDPE – 12”, 18”, 24” and 30”****Unit:** Linear Foot (LF)**Description:** This work consists of the furnishing and complete installation of high density polyethylene pipe for storm drainage. Pipe, 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:** 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 Item 73: Type 1 Ditch****Unit:** Linear Foot (LF)**Description:** This work shall consist of the construction of open flow ways for surface drainage, using geotextile fabric, riprap and grout. Excavation, shaping and lining and geotextile fabric are incidental.**Measurement:** The quantity of work done shall be measured along the flow line of the ditch, from the first point of design depth to the point where the ditch breaks the plane of the drainage structure it empties into.**Payment:** Payment shall be made by the contract unit price per linear foot.

Bid Items 74-75: Type 3 Ditch, Type 4 Ditch

Unit: Linear Foot (LF)**Description:** This work shall consist of the construction of open flow ways for surface drainage, using permanent erosion control matting. Excavation, shaping, seeding, and lining are 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 done shall be measured along the flow line of the ditch, from the first point of design depth to the point where the ditch breaks the plane of the drainage structure it empties into.**Payment:** Payment shall be made by the contract unit price per linear foot.**Bid Item 76: Junction Box**

Unit: Each (EA)**Description:** This work shall consist of installing pre-cast or cast-in-place concrete junction boxes for storm drainage. Pipe connection, bedding, excavation, backfill, fill, fittings, frames and covers, 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 junction box in place completed, and accepted by the COTR.**Payment:** Payment shall be made at the contract unit price for each.**Bid Items 77-78: Type "B" and "G" Drop Inlet**

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, grates, frames, 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 Items 79-80: 12" Yard Drain, Drain Basin**

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 yard drain in place completed, and accepted by the COTR.

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

Bid Item 81: Trench Drain & Grate

Unit: Linear Foot (LF)

Description: This work shall consist of installing a vehicular trench drain for storm drainage. Pipe connection, bedding, excavation, backfill, reinforcement, concrete, fittings, frames and grates 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 linear foot of trench drain installed and accepted by the COTR, measured along the center-line from end of grate to end of grate.

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

Bid Item 82: Concrete Headwall

Unit: Each (EA)

Description: This work shall consist of installing cast-in-place concrete headwalls for storm drainage. Excavation, forming, reinforcement, concrete, pipe connection, aggregate bedding, backfill, and concrete finishing 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 for each headwall completely installed.

Payment: Payment shall be made at the contract unit price for each complete and in place.

Bid Item 83: Electrical Duct Bank Type 1

Unit: Linear Foot (LF)

Description: This work shall consist of trenching and backfill, vaults, handholes, junction boxes, conduit, concrete, and pull ropes required for the installation of underground primary. 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 transformer pad and linear feet of underground primary constructed in conformance with the plans and specifications.

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

Bid Item 84: Electrical Duct Bank Type 2

Unit: Linear Foot (LF)

Description: This work shall consist of trench and backfill, vaults, handholes, junction boxes, conduit, concrete, pull ropes, and conductors required for the installation of underground secondary between the transformer and the combined duct bank. 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 underground secondary constructed in conformance with the plans and specifications.

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

Bid Item 85: Electrical Duct Bank Type 3

Unit: Linear Foot (LF)

Description: This work shall consist of trench and backfill, vaults, handholes, junction boxes, conduit, concrete, pull ropes, conductors, and control wires required for the installation of underground secondary between the Readiness Center and the emergency generator. 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 underground secondary constructed in conformance with the plans and specifications.

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

Bid Items 86-87: Combined Duct Bank Type 1, Combined Duct Bank Type 2

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, handholes, junction boxes, pedestals, 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 88: Communications 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, extra pull ropes, vaults, handholes, pedestals, 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 89: Transformer Pad

Unit: Lump Sum (LS)

Description: This work shall consist of a cast-in-place concrete pad for the electrical transformer(s). The pad must meet the requirements of Appalachian Power Company for the transformer(s) used. This shall include excavation, concrete, reinforcing, grounding hardware, bollards for vehicular protection, 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: 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 90: Not Used

Bid Item 91: Emergency Generator

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 generator as shown under Alternate Bid #1 in the Drawings and Specifications. The generator alternate includes the generator, the transfer switch, and the generator pad. The work shall include all miscellaneous conduit and wiring required for a complete and functional installation. 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 92: Vehicle Wash Rack

Unit: Lump Sum (LS)

Description: This work shall consist of adding a vehicle wash rack and canopy as shown in the Plans. Excavation, concrete, aggregate base, waterstops, structural steel, foundations, roof panels, trim panels, associated drainage structures, piping, conduits, post hydrant, hose reels and hose, and other ancillary equipment within the boundary created by the edge of the concrete pad 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: 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 93: Operable Partitions

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 complete and functional Operable Partitions as shown under Alternate Bid #4 in the Drawings and Specifications.

This item includes the miscellaneous steel framing and gypsum board assembly bulkheads adjacent to the operable partitions that occur between the classrooms. The full extent of this work is defined by the Contract Documents, including the Drawings and Project Manual, 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 94, 95: Acoustical Treatment

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 complete and functional acoustical wall and ceiling treatment as shown under Alternate Bids #5, and #6 in the Drawings and Specifications. This work shall consist of various types of acoustical wall and ceiling treatment, including, but not limited to: fiber absorptive panels and fabric wrapped panels. 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 96: Interior Brick

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 interior brick as shown under Alternate Bid #7 in the Drawings and Specifications. This work shall consist of using a brick CMU composite wall instead of a CMU wall at multiple locations throughout the building as identified with the wall types and partition tags. 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 97: Gravel Maintenance Strip

Unit: Linear Foot (LF)

Description: This work shall consist of installation of the gravel maintenance strip in locations specified on the plans or as directed by the COTR. Gravel maintenance strip work includes excavation, geotextile fabric, stone, 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 gravel maintenance strip in place, completed, and accepted by the COTR.

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

Bid Item 98: FSC Certified Wood

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 FSC Certified Wood as shown under Alternate Bid #9 in the Specifications.

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 99: Overhead Crane in Maintenance Workbay

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 complete and functional overhead crane as shown under Alternate Bid #10 in the Drawings and Specifications. This work shall consist of the crane, crane installation, as well as miscellaneous steel framing. The work shall include all of the miscellaneous framing and electrical connections for a complete and functional installation. 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 100: Fencing/Gate Upgrade

Unit: Lump Sum (LS)

Description: This work shall consist of upgrading all security fencing, swing gates, sliding gates, and alternate bid items to an eight foot chain-link fabric height. Force Protection Gate is not 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: 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 101: Additional Kitchen Equipment

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 complete and functional kitchen equipment as shown under Alternate Bid #12 in the Drawings and Specifications.

The scope of this bid item is identified on the Kitchen Equipment Schedule. Items designated as 'Alternate' shall be included in the Kitchen Equipment Alternate, and all other items are base bid. The full extent of this work is defined by the Contract Documents, including the Drawings and Project Manual, dated August 1, 2012 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 102: Drill Hall Flooring

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 complete and functional drill hall flooring as shown under Alternate Bid #13 in the Drawings and Specifications. 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.

END OF SECTION