



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

Solicitation

NUMBER
PTR13001

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
PAUL REYNOLDS 304-558-0468

VENDOR

RFQ COPY
 TYPE NAME/ADDRESS HERE

SHIP TO

DIVISION OF PUBLIC TRANSIT
 BUILDING 5, ROOM 906
 1900 KANAWHA BOULEVARD, EAST
 CHARLESTON, WV
 25305-0432 304-558-0428

DATE PRINTED
10/07/2012

BID OPENING DATE: **10/25/2012** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
				ADDENDUM NO. 2		
				ADDENDUM NO. 2 ISSUED TO:		
				CHANGE BID OPENING DATE:		
				FROM: OCTOBER 23, 2012 AT 1:30 P.M.		
				TO: OCTOBER 25, 2012 AT 1:30 P.M.		
				ANSWER VENDOR QUESTIONS		
				REVISE BID SPECIFICATIONS		
				REVISE BID DRAWINGS		
0001		EA		968-20		
				BUILDING CONSTRUCTION		
***** THIS IS THE END OF RFQ PTR13001 ***** 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: PTR13001
Addendum Number: 2

The purpose of this addendum is to modify the solicitation identified as PTR13001 (“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 Pre-bid Meeting answers to questions

Description of Modification to Solicitation: Change Bid Opening date.

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. Change bid opening date

From: October 23, 2012 at 1:30 P.M.

To: October 25, 2012 at 1:30 P.M.

2. Answer vendor questions submitted.
3. Revised bid clarifications.
4. Revised bid requirements
5. Pre-bid meeting sign-in sheet attached
6. The addendum acknowledgement is attached. This document should be signed and returned with your bid. Failure to sign and return may result in disqualification.

Bid Form #1

Proposal of _____ hereinafter called Bidder, organized and existing under the laws of the State of _____ doing business as _____ to the West Virginia Division of Public Transit, hereinafter called OWNER.

In compliance with your Advertisement for Bids, Bidder hereby proposed to perform all work for the new construction of an Administrative Office and Bus maintenance facility in Bluefield, Mercer County, West Virginia in strict accordance with the Contract Documents, within the time and at the prices stated herein.

By submission of this Bid, each Bidder certifies, and in the case of a joint bid, each party hereto certifies as to his own organization, 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.

Bidder agrees to commence work under this Contract upon receipt of the Notice to Proceed and to obtain substantial completion and final completion for the Project as called for in these contract documents.

NOTE: Bids include all applicable taxes, permits, and fees.

*Insert "a corporation," "a partnership," or "an individual" as applicable.

BASE BID: _____

Amount to be shown in both words and numbers) \$ _____

Alternate 1: Replace Overhead Sectional Doors _____

Alternate 2: Canopy at Fueling Station _____

Alternate 3: Decorative Site Lighting Fixtures _____

NOTE: The alternates are mandatory, but contract is awarded on base bid.

ADDENDUM NO. 2

BLUEFIELD AREA TRANSIT
ADMINISTRATIVE OFFICE & MAINTENANCE FACILITY

OCTOBER 2012

DRAWINGS:

SHEET C-101 – General Note 7: Delete entire Note.

SHEET C-101 – Revision of Lawn Area to West Side of Entry: See attached Drawing C-101.1 for reduced lawn area work.

SHEETS C-101, C-201, C-203, C-204: Change CR 290/4 Cumberland Road to the following:

CR 290/1 John Nash Boulevard

SHEET C-101 – General Note #5 – Fertilizer, Seeding & Mulching: Delete all sentences and add the following:

See the Fertilizer, Grading and Seeding Specification 32 90 02 for this work and for top soil requirements.

SHEET C-201: Add the following to General Notes:

9. See the attached partially completed West Virginia Department of Transportation Forms MM-109 (3 total) in Addendum for encroachment permits to be completed and paid for by the Contractor. Work identified in these permits is part of the contract work.

SHEET C-201: Add the following note at the west end of existing entrance 18" CMP (INV. 2569.42):

Regrade ditch at pipe invert; daylight at 1% slope, seed and mulch. Slope sides at 3/1.

SHEET C-203: Change route of 1" water line to fuel island as follows:

1" water line to enter Mechanical Room 118 at west end of exterior wall; provide ball valve shut off at inside wall 3' A.F.F.

SHEET C-203 – Note #10: Delete last sentence and add the following:

See Plumbing Plan for connection.

SHEET C-203 – Utility General Note #3: Delete first and second sentences and add the following:

Work numbers are 022212533 and 023649271. The contact is Gene Jones at (304) 320-9573. A new 208/120, 4-wire, pole mount service is to be provided. Service wire will be removed and reinstalled. Contractor to pay all cost, if any.

SHEET C-203: Add the following Utility General Note:

11. Phone Service: Frontier Communications contact is Brian Meadows (Phone: (304) 887-4536). Remove existing service and install new phone service cable to the termination point in Room 124. All work to be performed in accordance with phone company requirements and these documents.

SHEET C-204 – Waste Area: Add the following note:

14 loads of soils dumped in this area may be used to supplement the topsoil areas. This material must be cleaned (removed rocks and debris) if it is used to augment topsoil requirement. This material does not fully meet the requirements for topsoil and is not to be placed in the top 2" of the topsoil installation. Any excess, if any, is to be mixed into waste area.

SHEET AD-101 – Key Note 9: Add the following sentence:

Cut festooned control track flush to hoist beam end (east end) and relocate stop.

SHEET AD-101: Add the following General Sheet Notes:

- S. Remove all existing rake trim from the high building.
- T. Clean mud, dirt streaks, and obvious smudges as viewed from floor from the structure frames, girt faces, columns and purlins.
- U. Remove miscellaneous unistrut, hangers, signage and wood from interior walls of the area to remain. Turn over existing fire extinguishers to Owner. Save all removed liner panel for repair as required. Turn over remaining panels to Owner.

SHEET A-101 – Key Note 3: Add the following sentence:

Existing liner panel can remain if it can be maintained in undamaged condition.

SHEET A-111: Delete decorative 3-inch round pipe and bracket from middle porch column on south side of column.

SHEET A-121 – General Sheet Note F: Delete 1% minimum from end of sentence and add the following:

To be free of standing water.

SHEET A-121 – General Sheet Notes: Add the following note:

- G. Locate downspouts at receiver points as shown on Sheet C-203.

SHEET A-201 – General Sheet Note A: Delete “by metal building manufacturer” from the end of the sentence and add the following:

Per the Specification 09 91 10 Painting (see Addendum) (Attachment No. 3).

SHEET A-313 – Detail #1 – 3rd Note above Floor Line:

Change (2) - #6 at 32" on center to read (1) #5 @ 32" on center.

SHEET A-313 – Detail #1 – Top Bond Beam Note: Change (2) - #6 reinforcing bars to (1) #5 reinforcing bar.

SHEET A-314 – Detail #1 at Section Cut 7/A-501: Delete phrase from Note "welded to column" and add the following sentence to note:

See structural drawings for connection details.

SHEET A-401 – Room Finish Schedule – General Notes: Add the following Notes:

- E. Clean out existing floor slab control and construction joint and install backer rod where depth permits and provide self leveling sealant.
- F. Clean, patch, and repaint to match existing concrete floor where wall, drains, and floor tiles have been removed.
- G. Existing floors to be painted with floor paint equal to Sherwin Williams Armorseal® Floor-Plex® 7100. On existing paint, provide spot prime and one coat. On unpainted concrete, provide one prime and two finish coats. Follow all manufacturer surface preparation and system requirements.

SHEET A-401 – Room Finish Schedule, Floor, Material, Rooms 122, 127, 128, 131, 132 & 133: Change to read as follows.

Paint existing floor.

SHEET A-401 – Finish Schedule Remarks: Delete sentence and add the following:

- 5. Paint columns and base plates to height of liner panel.

SHEET S-101 – Masonry – 10th Note Down, 2nd Column from Left: Change (2) - #6 to (1) - #5.

SHEET S-201 – Key Note #7: Move upper Keynote No. 1 at Column Line "A" up to the third 2' x 4' slab cut (as noted by Keynote 3).

SHEET S-401 – Detail 6/S-401: Add the following note:

Provide 6" thickness of porous backfill under slab. Provide 10 mil. Polyethylene vapor barrier directly under slab.

SHEET S-501 – Detail 3/S-501: Add the following note:

Required for four columns. Building columns are similar to crane columns.

SHEET P-101 – Keynote #11: Add the following:

Provide protection of reels from weather and other abuse.

SHEET P-201 – Column Line B – South Wall: Relocate air drop on west side of column 12' to west 4' above finish floor to serve grease and gear lube pumps. Coordinate quick disconnect size with supply hoses.

SHEET P-201 – Propane Gas Service: Move regulator, riser and shut-off to south wall 3 feet west of southeast building corner.

SHEET PD-101 – Key Note 3: Add the following sentence:

Remove piping back to system connection point for reel units on south wall and cap pipe ends.

SHEET PD-101: Existing lubricant tanks in southeast corner between A & B Column Lines: Tanks are to be disconnected/reconnected to facilitate finishes work. Clean tank exteriors prior to reinstalling. Verify pump functions work properly.

SHEET M-201 – Key Note 4: Delete sentence and add the following:

Mount top of louver under upper most wall girt. Provide framing as required to support unit and wall sheeting.

SHEET M-601 – Overhead Vehicle Exhaust System Schedule: Add the following notes:

Provide shop drawings and manufacturer's data for Architect's review during shop drawing submittal phase.

Provide demonstration and training of system operation and maintenance to personnel designated by Owner.

Provide operations and maintenance data for overhead vehicle exhaust in O&M Manual.

SHEET E-101 – General Notes: Add the following:

E. Electric company is AEP and contact is Gene Jones at (304) 320-9573. The Work Order Numbers are 022212533 and 023649271 to remove and replace service. Service will be changed to a 208/120 3-phase 4-wire system.

F. See Site Utility Plan for additional requirements.

SHEET E-101 – Key Note 10: Delete second sentence of Note and add the following:

Provide pair of electric service conduit and connect to remaining existing electrical conduit from pole and from building with smooth watertight connection. Electric Company representative must approve conduit and connections prior to pipe cover. Provide hand hole per specification and utility requirements for new communication conduits only (see Keynote 22).

SHEET ED-101 – General Sheet Notes: Add the following note:

B. Where walls are demolished in the structure to remain, remove wire and conduit back to panel and terminate conduits at panel on floor and patch/seal as required.

SHEET ED-101 – Key Note 8: Add the following sentence:

Turn fan over to Owner.

SHEET E-101 – Key Note 14: Change the following:

Change (Total of 4) to (Total of 2). Remove the word “existing” from the last sentence.

SHEET E-201 – Lighting Plan: Add (2) “C” fixtures along Building Line C to circuits 3 and 4. Add (2) “C” fixtures in Work Bay 1 to circuits 4 and 8. Exact layout to be coordinated with Architect during construction.

SHEET E-201 – General Note F: Delete 10'-0" on Item 1 and add mount at ceiling. Delete 17'-0" on Item 2 and add mount at 18' A.F.F. (minimum).

SHEET E-201: Delete Note 11.

SHEET E-401 – General Note E: Delete Note “E” and see Key Note 15 for work on antenna.

SHEET E-401 – Key Note 15: Add the words “on the” in front of the word “south”.

SHEET E-701 – General Note: Concrete encasement at utility service only (electric/telephone).

SPECIFICATIONS

SECTION 01 23 00 - ALTERNATES: Remove pages 1 and 2 and add Addendum 01 23 00 Pages 1 and 2 (see attachments).

SECTION 07 23 05 – SLOPED ROOF INSULATION: Add entire specification.

SECTION 09 91 10 – PAINTING: Remove page 8 and add Addendum 09 91 10 page 8.

SECTION 12 21 10 – HORIZONTAL LOUVER BLINDS – Section 1.1;A: Add the following:

Provide blinds at exterior window units W1-W4.

SECTION 28 31 12 – ZONED (DC LOOP) FIRE-ALARM SYSTEM: Add entire specification.

SECTION 31 23 00 – EXCAVATION, BACKFILL & EMBANKMENT: Remove Page 6 and add Addendum 31 23 00 Page 6 (see attachment).

ATTACHMENTS:

1. Specification 01 23 00 – Alternates (Pages 1 & 2)
2. Specification 07 23 05 – Sloped Roof Insulation
3. Specification 09 91 10 – Painting (Page 8)
4. Specification 28 31 12 – Zoned (DC Loop) Fire-Alarm System
5. Specification 31 23 00 – Excavation, Backfill and Excavation (Page 6)
5. WVDOT Permit Forms with Sketches (3 Permits with 3 Pages Each)
6. Plan Sheet C-101.1
7. Contractor Questions & Architect/Owner Responses
8. Pre-Bid Meeting Responses to Questions
9. Following Specification Attachments for information only:
 - Specification 01 31 02 – Project Meetings
 - Specification 01 50 00 – Temporary Facilities and Controls
 - Specification 32 90 02 – Grading and Seeding

BLUEFIELD AREA TRANSIT
ADMINISTRATIVE OFFICES AND
MAINTENANCE FACILITY

SECTION 012300 - ALTERNATES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for alternates.

1.2 DEFINITIONS

- A. **Alternate:** An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.

1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.3 PROCEDURES

- A. **Coordination:** Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. **Notification:** Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated revisions to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.
- D. **Schedule:** A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

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PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. Alternate No. 1 -- Replace Overhead Sectional Doors.

1. The base bid is to replace the weather seals on six overhead sectional doors.
2. Alternate No. 1 calls for replacement of all six overhead doors including hardware, operators and necessary framing as described on drawing A-601 and Specification Section 083641. Each door shall have both a remote operator and an operator at the door.
3. *EXISTING DOORS TO BE TURNED OVER TO THE OWNER.*

B. Alternate No. 2 -- Canopy at Fueling Station.

1. Alternate 2 is to construct a canopy over the fueling station as shown on drawing A-315, C-201, C-202, C-203, E-701 and S-501.

C. Alternate No. 3 -- Decorative Site Lighting Fixtures.

1. Alternate No. 3 is to change a number of the site pole mounted light fixtures to a decorative fixture and add fixtures as shown on drawing E-101 and light fixture schedule.

END OF SECTION 012300

BLUEFIELD AREA TRANSIT
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SECTION 07 23 05 - SLOPED ROOF INSULATION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Foam plastic insulation and OSB sheathing.
 - 1. Vapor retarder.
- B. Specified in Other Sections:
 - 1. Standing Seam Metal Roof.
 - 2. Asphalt Roofing Felt.
 - 3. Metal Decking.

1.2 DESCRIPTION

- A. Insulation to have a minimum thickness of not less than 4" and to provide an "R" value of 20 at all roof plane locations.
 - 1. R-values represent temperature difference in °F between exposed faces required to cause one BTU to flow through one square foot per hour at mean temperature of 75°F.

1.3 SUBMITTALS

- A. Samples of insulation material and sheathing.
- B. Specification data and installation instructions.
- C. Manufacturer's certification that insulation meets or exceeds requirements of the specifications.

1.4 QUALITY ASSURANCE

- A. Fire Performance Characteristics: Provide insulation materials which are identical to those whose fire performance characteristics that have been determined by the following tests by UL or other testing and inspecting agency acceptable to authorities having jurisdiction:
 - 1. Foam plastic insulation - FM 4450 or UL 1256 when installed directly on metal deck.
 - 2. Surface Burning Characteristics: ASTM E 84.

1.5 PRODUCT HANDLING

- A. Exercise care in unloading and handling to not damage coverings.
- B. Keep materials dry at all times. Protect against exposure to weather and contact with damp or wet surfaces. Store insulation and plywood on blocking 6" above ground and for air circulation within stacks. Do not store in damp areas.

PART 2 - PRODUCTS

2.1 MATERIAL

- A. Extruded-Polystyrene Board Insulation; ASTM C 578, of type and density indicated below, with maximum flame-spread and smoke-developed indices of 75 and 450, respectively:
 - 1. Type IV, 1.60 lb/cu. ft. unless otherwise indicated.
- B. Sheathing: 13/32" Thick, Louisiana-Pacific Inner Seal, OSB sheathing, conforming to APA RATED

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Sheathing Standard.

- C. Surface Burning Characteristics: Maximum flame spread of 25, maximum smoke developed 165.

2.2 VAPOR MEMBRANE

- A. Self-Adhering Sheet Vapor Retarder: 40-mil- thick, polyethylene film laminated to layer of rubberized asphalt adhesive; maximum permeance rating of 0.1 perm; cold-applied, with slip-resisting surface and release-paper backing. Provide primer when recommended by vapor-retarder manufacturer. Acceptable Products:
1. Carlisle Coatings & Waterproofing, Div. of Carlisle Companies Inc.; Dri-Start "A."
 2. Grace, W. R. & Co.--Conn.; Grace Ice and Water Shield,
 3. CertainTeed "Winter Guard"

PART 3 - EXECUTION

3.1 INSULATION

- A. Comply with insulation manufacturer's instructions and for the particular installation conditions in each case. If printed instructions are not available or do not apply to the project conditions, consult manufacturer's technical representative for specific recommendations before proceeding with the work.
- B. Install 4' x 8' panel with long edges parallel to roof line and with joints staggered in one direction with joints tight. Cut and fit around penetrations without voids.
1. Mechanically fasten in accordance with manufacturer's recommended spacing, but space fasteners not more than 4" o.c. around perimeter at edge and end supports, and 8" o.c. at intermediate supports.
- C. Cover installed insulation with roofing underlayment on the same day and with all edges and penetrations temporarily sealed watertight.

3.2 VAPOR-RETARDER INSTALLATION

- A. Self-Adhering Sheet Vapor Retarder: Prime substrate if required by manufacturer. Install self-adhering sheet vapor retarder over area to receive vapor retarder, side and end lapping each sheet a minimum of 3-1/2 inches and 6 inches, respectively. Seal laps by rolling.
- B. Completely seal vapor retarder at terminations, obstructions, and penetrations to prevent air movement into roofing system.

END OF SECTION 07 23 05

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5. Ferrous Metal and other than Exposed Steel Structure:

a. Alkyd Finish: Two finish coats over a primer.

- 1) Primer: Interior ferrous-metal primer.
- 2) Finish Coats: Interior alkyd semi-gloss, 1.7 mils DFT per coat, Total DFT 3.4 mils.

B. Exterior Painting:

1. Hollow Metal Doors, Frames and other Zinc-Coated Metal including exposed pipes:

a. Alkyd Finish: Two finish coats over a primer.

- 1) Primer: Ferrous-metal primer.
- 2) Finish Coats: Alkyd semi-gloss, 1.7 mils DFT per coat, Total DFT 3.4 mils.

2. Exterior Non galvanized Metal Pipes, Electrical Boxes, Vents, etc.:

a. Enamel Finish: Two finish coats over a primer.

- 1) Primer: Quick Dry Ferrous-metal primer.
- 2) Finish Coats: Exterior Alkyd (high gloss) 1.7 mils DFT per coat, Total DFT 3.4 mils.

3. Exterior Zinc-Coated Metal: (LOW CONTACT/TRAFFIC)

a. Latex Finish: Two finish coats over a primer.

- 1) Primer: Water based galvanized-metal primer.
- 2) Finish Coats: Latex - Semi-Gloss 1.7 mils DFT per coat, Total DFT 3.4 mils.

4. Existing and Replacement Metal Siding

a. High Performance Acrylic: Two finish coats over a primer.

- 1) Primer: DTM Bonding Primer (Sherwin-Williams basis of design).
- 2) Finish Coats: Semi-Gloss High Performance Acrylic HPA (Sherwin-Williams basis of design) 1.7 mils DFT per coat, Total DFT 3.4 mils.

END OF SECTION 09 91 10

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SECTION 283112 - ZONED (DC LOOP) FIRE-ALARM SYSTEM

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Fire-alarm control unit.
2. Manual fire-alarm boxes.
3. System smoke detectors.
4. Notification appliances.
5. Digital alarm communicator transmitter.

1.3 DEFINITIONS

- A. LED: Light-emitting diode.
- B. NICET: National Institute for Certification in Engineering Technologies.

1.4 SYSTEM DESCRIPTION

- A. Noncoded system, dedicated to fire-alarm service only.

1.5 SUBMITTALS

A. General Submittal Requirements:

1. Submittals shall be approved by authorities having jurisdiction prior to submitting them to Architect.
2. Shop Drawings shall be prepared by persons with the following qualifications:
 - a. Trained and certified by manufacturer in fire-alarm system design.
 - b. NICET-certified fire-alarm technician, Level III minimum.
 - c. Licensed or certified by authorities having jurisdiction.

- B. Product Data: For each type of product indicated.

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- C. Shop Drawings: For fire-alarm system. Include plans, elevations, sections, details, and attachments to other work.
1. Comply with recommendations in the "Documentation" Section of the "Fundamentals of Fire Alarm Systems" Chapter in NFPA 72.
 2. Include voltage drop calculations for notification appliance circuits.
 3. Include battery size calculations.
 4. Include performance parameters and installation details for each detector, verifying that each detector is listed for the complete range of air velocity, temperature, and humidity possible when air-handling system is operating.
 5. Include plans, sections, and elevations of heating, ventilating, and air-conditioning ducts, drawn to scale and coordinating installation of duct smoke detectors and access to them. Show critical dimensions that relate to placement and support of sampling tubes, detector housing, and remote status and alarm indicators. Locate detectors according to manufacturer's written recommendations.
 6. Include floor plans to indicate final outlet locations showing zone designation of each device. Show size and route of cable and conduits.
- D. Qualification Data: For qualified Installer.
- E. Field quality-control reports.
- F. Operation and Maintenance Data: For fire-alarm systems and components to include in emergency, operation, and maintenance manuals. In addition to items specified in Division 01 Section "Operation and Maintenance Data," deliver copies to authorities having jurisdiction and include the following:
1. Comply with the "Records" Section of the "Inspection, Testing and Maintenance" Chapter in NFPA 72.
 2. Provide "Record of Completion Documents" according to NFPA 72 article "Permanent Records" in the "Records" Section of the "Inspection, Testing and Maintenance" Chapter.
 3. Record copy of site-specific software.
 4. Provide "Maintenance, Inspection and Testing Records" according to NFPA 72 article of the same name and include the following:
 - a. Frequency of testing of installed components.
 - b. Frequency of inspection of installed components.
 - c. Requirements and recommendations related to results of maintenance.
 - d. Manufacturer's user training manuals.
 5. Manufacturer's required maintenance related to system warranty requirements.
 6. Abbreviated operating instructions for mounting at fire-alarm control unit.
 7. Copy of NFPA 25.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Personnel shall be trained and certified by manufacturer for installation of units required for this Project.

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- B. Installer Qualifications: Installation shall be by personnel certified by NICET as fire-alarm Level III technician.
- C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

1.7 SEQUENCING AND SCHEDULING

- A. Equipment Removal: After acceptance of new fire-alarm system, remove existing disconnected fire-alarm equipment and wiring.

1.8 EXTRA MATERIALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 1. Lamps for Strobe Units: Quantity equal to 10 percent of amount installed, but no fewer than 1 unit.
 2. Smoke and Fire Detectors: Quantity equal to 10 percent of amount of each type installed, but no fewer than 1 unit of each type.
 3. Detector Bases: Quantity equal to 2 percent of amount of each type installed, but no fewer than 1 unit of each type.
 4. Keys and Tools: One extra set for access to locked and tamperproofed components.
 5. Audible and Visual Notification Appliances: One of each type installed.
 6. Fuses: Two of each type installed in the system.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide a comparable product by one of the following:
 1. GameWell – FCI, a Honeywell Company.
 2. Gentex Corporation.
 3. NOTIFIER; a Honeywell company.
 4. Siemens Building Technologies, Inc.; Fire Safety Division.
 5. SimplexGrinnell LP; a Tyco International company.
 6. Or approved equal.

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2.2 SYSTEMS OPERATIONAL DESCRIPTION

- A. Fire-alarm signal initiation shall be by one or more of the following devices and systems:
 - 1. Manual stations.
 - 2. Smoke detectors.
 - 3. Duct smoke detectors.
 - 4. Automatic sprinkler system water flow.
 - 5. Fire-extinguishing system operation.
 - 6. Fire standpipe system.

- B. Fire-alarm signal shall initiate the following actions:
 - 1. Continuously operate alarm notification appliances.
 - 2. Identify alarm zone at fire-alarm control unit and remote annunciators.
 - 3. Transmit an alarm signal to the remote alarm receiving station.

- C. Supervisory signal initiation shall be by one or more of the following devices and systems:
 - 1. Valve supervisory switch.

- D. System trouble signal initiation shall be by one or more of the following devices and actions:
 - 1. Open circuits, shorts, and grounds in designated circuits.
 - 2. Opening, tampering with, or removing alarm-initiating and supervisory signal-initiating devices.
 - 3. Loss of primary power at fire-alarm control unit.
 - 4. Ground or a single break in fire-alarm control unit internal circuits.
 - 5. Abnormal ac voltage at fire-alarm control unit.
 - 6. Break in standby battery circuitry.
 - 7. Failure of battery charging.
 - 8. Abnormal position of any switch at fire-alarm control unit or annunciator.

- E. System Trouble and Supervisory Signal Actions: Initiate notification appliance and annunciate at fire-alarm control unit and remote annunciators.

2.3 FIRE-ALARM CONTROL UNIT

- A. General Requirements for Fire-Alarm Control Unit:
 - 1. Modular, power-limited design with electronic modules, UL 864 listed.
 - a. Include a real-time clock for time annotation of events.

- B. Alphanumeric Display and System Controls: Display alarm, supervisory, and component status messages and the programming and control menu.

BLUEFIELD AREA TRANSIT
ADMINISTRATIVE OFFICES AND
MAINTENANCE FACILITY

1. Annunciator and Display: Liquid-crystal type, one line of 80 characters, minimum.
- C. Circuits:
1. No Fewer Than Five Initiating Device Circuits:
 - a. Four circuits, NFPA 72, Class B.
 - b. One circuit(s), NFPA 72, Class A, Style 6
 2. No Fewer Than Two Notification Appliance Circuits: NFPA 72, Class B, Style Y.
- D. Transmission to Remote Alarm Receiving Station: Automatically transmit alarm, supervisory, and trouble signals to a remote alarm station.
- E. Primary Power: 24-V dc obtained from 120-V ac service and a power-supply module. Initiating devices, notification appliances, signaling lines, trouble signals, supervisory and digital alarm communicator transmitters and shall be powered by the 24-V dc source.
1. Alarm current draw of the entire fire-alarm system shall not exceed 80 percent of the power-supply module rating.
- F. Secondary Power: 24-V dc supply system with batteries, automatic battery charger, and automatic transfer switch.
1. Batteries: Sealed lead calcium.
- G. Instructions: Computer printout or typewritten instruction card mounted behind a plastic or glass cover in a stainless-steel or aluminum frame. Include interpretation and describe appropriate response for displays and signals. Briefly describe the functional operation of the system under normal, alarm, and trouble conditions.
- 2.4 MANUAL FIRE-ALARM BOXES
- A. General Requirements for Manual Fire-Alarm Boxes: Comply with UL 38. Boxes shall be finished in red with molded, raised-letter operating instructions in contrasting color; shall show visible indication of operation; and shall be mounted on recessed outlet box. If indicated as surface mounted, provide manufacturer's surface back box.
1. Double-action mechanism requiring two actions to initiate an alarm, pull-lever type.
 2. Station Reset: Key- or wrench-operated switch.
 3. Weatherproof Protective Shield: Factory-fabricated clear plastic enclosure hinged at the top to permit lifting for access to initiate an alarm.

BLUEFIELD AREA TRANSIT
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2.5 SYSTEM SMOKE DETECTORS

A. General Requirements for System Smoke Detectors:

1. Operating at 24-V dc, nominal.
2. Detectors shall be four-wire type.
3. Base Mounting: Detector and associated electronic components shall be mounted in a twist-lock module that connects to a fixed base. Provide terminals in the fixed base for connection to building wiring.
4. Self-Restoring: Detectors do not require resetting or readjustment after actuation to restore them to normal operation.
5. Integral Visual-Indicating Light: LED type indicating detector has operated and power-on status.
6. Provide multiple levels of detection sensitivity for each sensor, with alarm-verification feature.

B. Photoelectric Smoke Detectors: Comply with UL 268.

C. Duct Smoke Detectors: Photoelectric type complying with UL 268A.

1. Remote indication and test station. Operating key switch initiates an alarm test.
2. Weatherproof Duct Housing Enclosure: NEMA 250, Type 4X; NRTL listed for use with the supplied detector.
3. Sampling Tubes: Design and dimensions as recommended by manufacturer for specific duct size, air velocity, and installation conditions where applied.
4. Relay Fan Shutdown: Rated to interrupt fan motor-control circuit.

2.6 NOTIFICATION APPLIANCES

A. General Requirements for Notification Appliances: Connected to notification appliance signal circuits, zoned as indicated, equipped for mounting as indicated and with screw terminals for system connections.

1. Combination Devices: Factory-integrated audible and visible devices in a single-mounting assembly, equipped for mounting as indicated and with screw terminals for system connections.

B. Horns: Electric-vibrating-polarized type, 24-V dc; with provision for housing the operating mechanism behind a grille. Comply with UL 464. Horns shall produce a sound-pressure level of 90 dBA, measured 10 feet (3 m) from the horn, using the coded signal prescribed in UL 464 test protocol.

C. Visible Notification Appliances: Xenon strobe lights comply with UL 1971, with clear or nominal white polycarbonate lens mounted on an aluminum faceplate. The word "FIRE" is engraved in minimum 1-inch- (25-mm-) high letters on the lens.

1. Rated Light Output: (Provide data in shop submittal.)

BLUEFIELD AREA TRANSIT
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2. Mounting: Indicated on Drawings.
3. For units with guards to prevent physical damage, light output ratings shall be determined with guards in place.
4. Flashing shall be in a temporal pattern, synchronized with other units.
5. Strobe Leads: Factory connected to screw terminals.
6. Mounting Faceplate: Factory finished, red.

2.7 DIGITAL ALARM COMMUNICATOR TRANSMITTER

- A. Digital alarm communicator transmitter shall be acceptable to the remote central station and shall comply with UL 632 and be listed and labeled by an NRTL.
- B. Functional Performance: Unit shall receive an alarm, supervisory, or trouble signal from fire-alarm control unit and automatically capture one telephone line(s) and dial a preset number for a remote central station. When contact is made with central station(s), signals shall be transmitted. If service on either line is interrupted for longer than 45 seconds, transmitter shall initiate a local trouble signal and transmit the signal indicating loss of telephone line to the remote alarm receiving station over the remaining line. Transmitter shall automatically report telephone service restoration to the central station. If service is lost on both telephone lines, transmitter shall initiate the local trouble signal.
- C. Local functions and display at the digital alarm communicator transmitter shall include the following:
 1. Verification that both telephone lines are available.
 2. Programming device.
 3. LED display.
 4. Manual test report function and manual transmission clear indication.
 5. Communications failure with the central station or fire-alarm control unit.
- D. Digital data transmission shall include the following:
 1. Zone of the alarm initiating device.
 2. Zone of the supervisory signal.
 3. Zone of the trouble initiating device.
 4. Loss of ac supply or loss of power.
 5. Low battery.
 6. Abnormal test signal.
 7. Communication bus failure.
- E. Self-Test: Conducted automatically every 24 hours with report transmitted to central station.

BLUEFIELD AREA TRANSIT
ADMINISTRATIVE OFFICES AND
MAINTENANCE FACILITY

PART 3 - EXECUTION

3.1 EQUIPMENT INSTALLATION

- A. Comply with NFPA 72 for installation of fire-alarm equipment.
- B. Smoke- or Heat-Detector Spacing:
 - 1. Comply with NFPA 72, "Smoke-Sensing Fire Detectors" Section in the "Initiating Devices" Chapter, for smoke-detector spacing.
 - 2. Comply with NFPA 72, "Heat-Sensing Fire Detectors" Section in the "Initiating Devices" Chapter, for heat-detector spacing.
 - 3. Smooth ceiling spacing shall not exceed 30 feet (9 m).
 - 4. Spacing of detectors for irregular areas, for irregular ceiling construction, and for high ceiling areas shall be determined according to Appendix A or Appendix B in NFPA 72.
 - 5. HVAC: Locate detectors not closer than 3 feet (1 m) from air-supply diffuser or return-air opening.
 - 6. Lighting Fixtures: Locate detectors not closer than 12 inches (300 mm) from any part of a lighting fixture.
- C. Duct Smoke Detectors: Comply with NFPA 72 and NFPA 90A. Install sampling tubes so they extend the full width of duct.
- D. Remote Status and Alarm Indicators: Install near each smoke detector and each sprinkler water-flow switch and valve-tamper switch that is not readily visible from normal viewing position.
- E. Audible Alarm-Indicating Devices: Install not less than 6 inches (150 mm) below the ceiling. Install bells and horns on flush-mounted back boxes with the device-operating mechanism concealed behind a grille.
- F. Visible Alarm-Indicating Devices: Install adjacent to each alarm bell or alarm horn and at least 6 inches (150 mm) below the ceiling.
- G. Device Location-Indicating Lights: Locate in public space near the device they monitor.
- H. Fire-Alarm Control Unit: Surface mounting, with tops of cabinets not more than 72 inches (1830 mm) above the finished floor.

3.2 CONNECTIONS

- A. Connect supervised interface devices to the following devices and systems. Install the interface device less than 3 feet (1 m) from the device controlled.
 - 1. Smoke dampers in air ducts of designated air-conditioning duct systems.
 - 2. Supervisory connections at valve supervisory switches.

BLUEFIELD AREA TRANSIT
ADMINISTRATIVE OFFICES AND
MAINTENANCE FACILITY

3.3 IDENTIFICATION

- A. Identify system components, wiring, cabling, and terminals. Comply with requirements for identification specified in Division 26 Section "Identification for Electrical Systems."
- B. Install framed instructions in a location visible from fire-alarm control unit.

3.4 GROUNDING

- A. Ground fire-alarm control unit and associated circuits; comply with IEEE 1100. Install a ground wire from main service ground to fire-alarm control unit.

3.5 FIELD QUALITY CONTROL

- A. Field tests shall be witnessed by authorities having jurisdiction.
- B. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust components, assemblies, and equipment installations, including connections.
- C. Perform tests and inspections.
- D. Tests and Inspections:
 - 1. Visual Inspection: Conduct the visual inspection prior to testing.
 - a. Inspection shall be based on completed Record Drawings and system documentation that is required by NFPA 72 in its "Completion Documents, Preparation" Table in the "Documentation" Section of the "Fundamentals of Fire Alarm Systems" Chapter.
 - b. Comply with "Visual Inspection Frequencies" Table in the "Inspection" Section of the "Inspection, Testing and Maintenance" Chapter in NFPA 72; retain the "Initial/Reacceptance" column and list only the installed components.
 - 2. System Testing: Comply with "Test Methods" Table in the "Testing" Section of the "Inspection, Testing, and Maintenance" Chapter in NFPA 72.
 - 3. Test audible appliances for the public operating mode according to manufacturer's written instructions. Perform the test using a portable sound-level meter complying with Type 2 requirements in ANSI S1.4.
 - 4. Test visible appliances for the public operating mode according to manufacturer's written instructions.
 - 5. Factory-authorized service representative shall prepare the "Fire Alarm System Record of Completion" in the "Documentation" Section of the "Fundamentals of Fire Alarm Systems" Chapter in NFPA 72 and the "Inspection and Testing Form" in the "Records" Section of the "Inspection, Testing and Maintenance" Chapter in NFPA 72.
- E. Fire-alarm system will be considered defective if it does not pass tests and inspections.
- F. Prepare test and inspection reports.

BLUEFIELD AREA TRANSIT
ADMINISTRATIVE OFFICES AND
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- G. **Maintenance Test and Inspection:** Perform tests and inspections listed for weekly, monthly, quarterly, and semiannual periods. Use forms developed for initial tests and inspections.
 - H. **Annual Test and Inspection:** One year after date of Substantial Completion, test fire-alarm system complying with the visual and testing inspection requirements in NFPA 72. Use forms developed for initial tests and inspections.
- 3.6 DEMONSTRATION
- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain fire-alarm system.

END OF SECTION 283112

BLUEFIELD AREA TRANSIT
ADMINISTRATIVE OFFICES AND
MAINTENANCE FACILITY

3. Take control measures by the time the excavation reaches the groundwater level in order to maintain the integrity of the in situ material.
 4. While the excavation is open, maintain the water level a sufficient distance below the working level to provide a stable working surface.
- E. Rock Excavation: The Contractor will assume 30 cubic yards of rock excavation as part of Contract.
1. Definition.
 - a. Rock excavation is defined as the removal of:
 - 1) Unanticipated solid concrete (excluding pavements, slabs less than 8" thick and foundations with cross sections less than 8 sq. ft.), unanticipated solid masonry, or boulders each of which has a volume greater than 4 cubic yards.
 - 2) Bedrock which requires for its removal by an excavator mounted 6" pneumatic hammer drill.
 - 3) Any excavation below soil boring "refusal" limit.
 - b. Rock excavation is not excavating:
 - 1) Existing concrete or masonry structures or pavements shown.
 - 2) Material which can be excavated using an appropriately sized, (John Deere 160CLC or 200LC or equal) heavy-duty, power-operated excavator, backhoe, or shovel, all of which are equipped with bucket-mounted ripping teeth.
 - 3) Material that can be excavated with a hand pick and shovel.
 - 4) Soft or disintegrated bedrock such as weathered shale, clay shale, claystone, or mudstone, or overconsolidated soils such as "hardpan."
 - 5) Previously blasted materials or materials that are intermittently drilled and blasted to merely increase production.
 2. Blasting. Do not blast.
 3. Limits. Unless otherwise noted, excavate rock to the bottom of structures and to a minimum clear width of 6 inches around the outer limits of the structures.
- F. Disposal. Dispose of all excavated material unless otherwise shown.
1. Excavated material which is satisfactory may be used for backfill and embankments.
 2. Dispose of excavated material, which is unsatisfactory or surplus, off-site or as noted on drawings.

Form MM-109
Rev. 05-19-05

PERMIT NO. _____

PERMIT TO ENTER UPON, UNDER, OVER OR ACROSS THE STATE ROADS OF THE STATE OF WEST VIRGINIA, AS PROVIDED FOR IN SECTION 6, ARTICLE 16, CHAPTER 17; SECTION 9, ARTICLE 16, CHAPTER 17; SECTION 8, ARTICLE 4, CHAPTER 17, WEST VIRGINIA CODE, 1931, AS AMENDED.

THIS PERMIT, Made this _____ day of _____ 20 _____, between the WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, a statutory corporation hereinafter called DIVISION and _____

Address: _____ Phone No: _____

hereinafter called APPLICANT.

WITNESSETH

In consideration of the hereinafter set out covenants and in accordance with Section 6, Article 16, Chapter 17; or Section 9, Article 16, Chapter 17; or Section 8, Article 4, Chapter 17, of the Official Code of West Virginia, 1931, as amended, and the rules and regulations promulgated thereunder, APPLICANT does hereby apply to enter

Route Type & No. 290/1 DOH Project No. _____ (if applicable);
at 3208 John Nash Boulevard Mile Post 3
in Mercer County, for the purposes hereinafter set forth and in accordance with the plans and specifications which are attached hereto and made a part hereof: Reconfiguration of the existing property entry in accordance with the attached plan. Regrade ditch at west end of 18" CMP to match pipe invert.

APPLICANT further agrees to accept the conditions hereinafter set forth:

1. APPLICANT shall deposit with DIVISION the sum of \$ _____ in the form of an official, certified or cashier's check, or executed bond with surety satisfactory to DIVISION to cover any damage and inspection costs DIVISION may sustain by reason of the granting of this permit, including any expense incurred in restoring said highway to its original condition or the proper repair of any and all damages that may result within one (1) year from the date of the completion of said work.
2. APPLICANT agrees to reimburse DIVISION for inspection costs as follows:
 - A. For any inspection costs incurred under this permit.
 - B. At \$ _____ per linear foot for _____ feet of water line installed under this permit
 - C. At \$ _____ per linear foot for _____ feet of sewer line installed under this permit
3. APPLICANT shall notify DIVISION at least 48 hours in advance of the date the work will begin. Failure to comply will be cause for cancellation of this permit.
4. APPLICANT agrees to protect its employees, equipment and users of the highway at all times in accordance with the current Division of Highways manual "Traffic Control For Street and Highway Construction and Maintenance Operations".
5. APPLICANT agrees to comply with all applicable state and federal laws in the performance of work under this permit.
6. Supplementary conditions cited on the reverse side of this permit are understood and agreed to be a part hereof.
7. The work authorized under this permit shall be completed on or before (Date): _____

Applicant's signature on this permit affirms that all text herein is a verbatim reproduction of The West Virginia Division of Highways Encroachment Permit Form MM-109, revision date May 19, 2005. All attachments are inclusive to this permit.

RECOMMENDED:

Title _____

Signature and Title of Applicant

BOND REQUIREMENT

BOND NO. _____ DATE _____

Attached On File

INSPECTION Owner/Consultant

Full Time Part Time

Periodic Reimbursable No Cost

APPROVED: _____

Title _____

West Virginia Division of Highways

AUTHORIZATION NO: _____

PERMIT NO: _____

CHAPTER 17 WEST VIRGINIA CODE, 1931

§17-4-8. Use of roadbed by railroad, telephone company, etc.

No railroad or electric or other railway shall be constructed upon the roadbed of any state road, except to cross the same, nor shall any person, firm or corporation enter upon or construct any works in or upon such road, or lay or maintain thereon or thereunder any drainage, sewer or water pipes, gas pipes, electric conduits or other pipes, nor shall any telephone, telegraph or electric line or power pole, or any other structure whatsoever, be erected upon, in or over any portion of a state road, except under such restrictions, conditions and regulations as may be prescribed by the state road commissioner. Whenever any railroad or electric or other railway, heretofore or hereafter constructed, shall cross any state road, it shall be required to keep its own roadbed, and the bed of the road or highway at such crossing, in proper repair, or else to construct and maintain an overhead or undergrade crossing, subject to the approval of the state road commissioner; and the tracks of such railroad or railway at grade crossings shall be so constructed as to give a safe and easy approach to and across the same, and when the construction of such approaches is made necessary by a change in the railroad grade at the grade crossing, the cost shall be upon the railway company.

§17-16-6. Permit by commission or county court for openings in or structures on public roads; franchises and easements of oil, etc., transportation companies.

No opening shall be made in any state or county-district road or highway, nor shall any structure be placed therein or thereover, nor shall any structure, which has been so placed, be changed or removed, except in accordance with a permit from the state road commission or county court, as the case may be. No road or highway shall be dug up for laying or placing pipes, sewers, poles or wires, or for other purposes, and no trees shall be planted or removed or obstructions placed thereon, without the written permit of the commission or county court, or its duly authorized agent, and then only in accordance with the regulations of the commission or court. The work shall be done under the supervision and to the satisfaction of the commission or court; and the entire expense of replacing the highway in as good condition as before shall be paid by the persons to whom the permit was given, or by whom the work was done: **Provided, however,** That nothing herein contained shall be so construed as to prevent any oil or gas company or person having a proper permit or franchise from transporting oil or gasoline along any of the public highways of this State, nor to give such company a franchise without paying to the landowners through whose lands such road passes the usual and customary compensation paid or to be paid to the landowners for such right of way. Any grant or franchise when made shall be construed to give to such company or person only the right to use the easement in such public road.

A violation of any provision of this section shall be a misdemeanor, and the person or corporation violating the same shall, upon conviction thereof, be fined not less than twenty-five nor more than one hundred dollars for each offense.

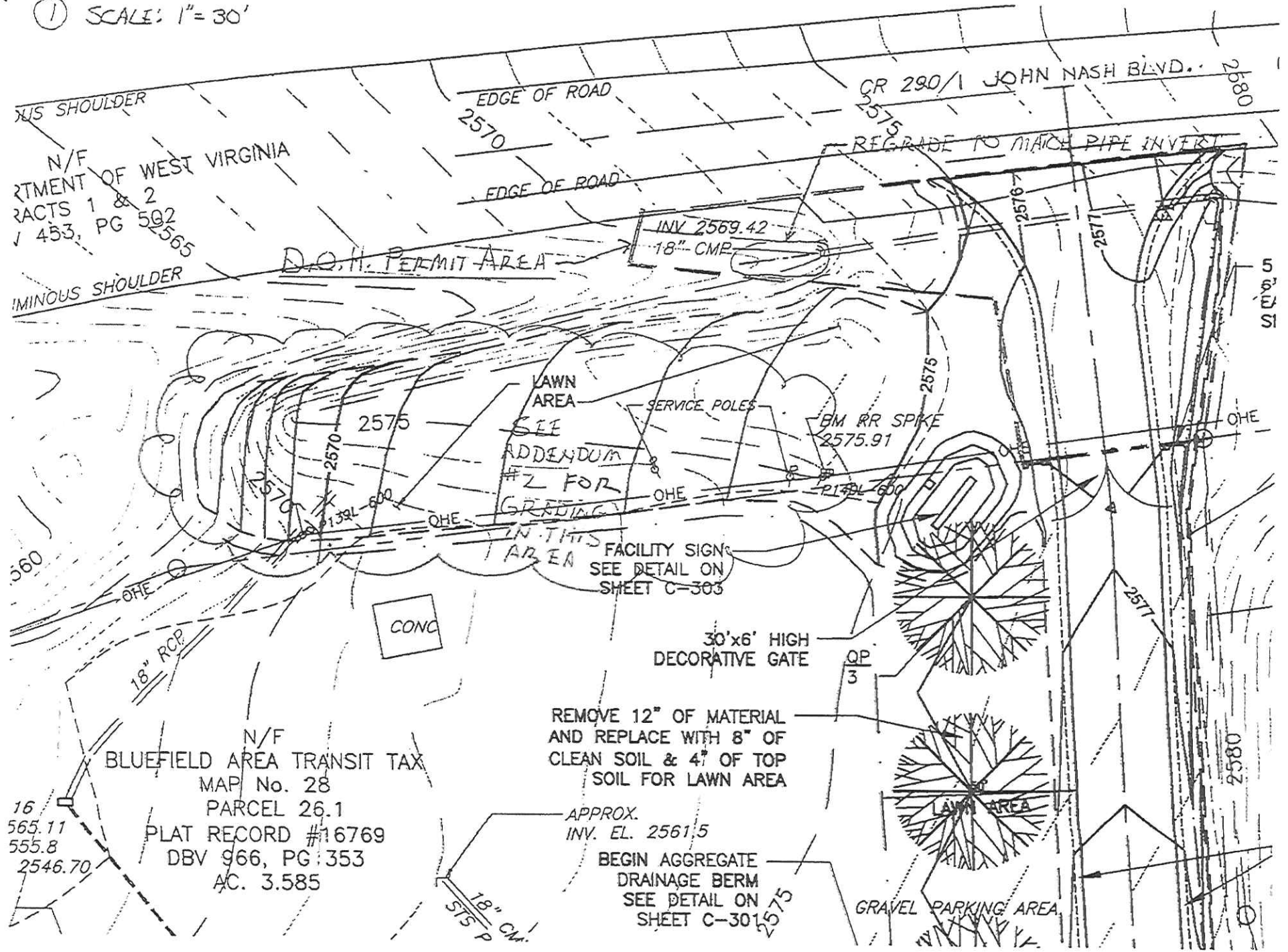
§17-16-9. Private driveways or approaches to roads; obstruction of ditches.

The owner or tenant of land fronting on any state road shall construct and keep in repair all approaches or driveways to and from the same, under the direction of the state road commission, and, likewise, the owner or tenant of land fronting on any county-district road shall construct and keep in repair approaches or driveways to and from the same, under the direction of the county road engineer, and it shall be unlawful for such owner or tenant to fill up any ditch, or place any material of any kind or character in any ditch, so as in any manner to obstruct or interfere with the purposes for which it was made.

SUPPLEMENTARY CONDITIONS

1. The person, firm or corporation to whom a permit is issued agrees to hold the State of West Virginia and DIVISION harmless on account of any damages to persons or property which may arise during the process of the work authorized by this permit or by reason thereof.
2. Applications for permission to perform work within highway rights of way shall be made on DIVISION'S standard permit form and shall be signed by the authorized representative of the person, firm or corporation applying.
3. The APPLICANT shall give detailed information concerning the work to be performed and the application must include a sketch sufficient to show the nature of the work performed.
4. APPLICANT, his agents, successor, heirs or assigns, contractors or any other person, firm or corporation working under APPLICANT'S real or apparent authority, shall perform the work in a manner satisfactory to DIVISION. Damage to the road resulting at any time from work authorized under this permit shall be repaired by APPLICANT. Unsatisfactory repairs may be a corrected by DIVISION or its authorized agent and the cost thereof paid by APPLICANT.
5. DIVISION assumes no liability for damage to the proposed work by reason of construction or maintenance work on the road.
6. This permit is granted subject to removal of the authorized installation by APPLICANT at no cost to DIVISION when required for improvement of the road, and subject to all regulations now or hereafter adopted by DIVISION.
7. Utility installation shall be in accordance with the current manual, "Accommodation of Utilities on Highway Right of Way".
8. Driveways shall be in accordance with the current manual, "Rules and Regulations for Constructing Driveways on State Highway Rights-of-Way."
9. DIVISION reserves the right to cancel this permit at any time, should APPLICANT fail to comply with the terms and conditions under which it is granted.
10. This permit is granted only insofar as the DIVISION has a right to do so.

① SCALE: 1" = 30'



N/F
 RTMENT OF WEST VIRGINIA
 ACTS 1 & 2
 453, PG 592
 2565
 MINOUS SHOULDER

CR 290/1 JOHN NASH BLVD. 2680

D.O.H. PERMIT AREA

INV 2569.42
 18" CMP

REGRADE TO MATCH PIPE INVERT

LAWN AREA

SERVICE POLES

BM RR SPIKE
 2575.91

SEE
 ADDENDUM
 #2 FOR
 GRADING

FACILITY SIGN
 SEE DETAIL ON
 SHEET C-303

CONC

30'x6' HIGH
 DECORATIVE GATE

QP
 3

REMOVE 12" OF MATERIAL
 AND REPLACE WITH 8" OF
 CLEAN SOIL & 4" OF TOP
 SOIL FOR LAWN AREA

APPROX.
 INV. EL. 2561.5

BEGIN AGGREGATE
 DRAINAGE BERM
 SEE DETAIL ON
 SHEET C-301

GRAVEL PARKING AREA

N/F
 BLUEFIELD AREA TRANSIT TAX
 MAP No. 28
 PARCEL 26.1
 PLAT RECORD #16769
 DBV 966, PG 353
 AC. 3.585

16
 565.11
 555.8
 2546.70

18" CMP
 5/15 P

2580

5
 2575

Form MM-109
Rev. 05-19-05

PERMIT NO. _____

PERMIT TO ENTER UPON, UNDER, OVER OR ACROSS THE STATE ROADS OF THE STATE OF WEST VIRGINIA, AS PROVIDED FOR IN SECTION 6, ARTICLE 16, CHAPTER 17; SECTION 9, ARTICLE 16, CHAPTER 17; SECTION 8, ARTICLE 4, CHAPTER 17, WEST VIRGINIA CODE, 1931, AS AMENDED.

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Route Type & No. 290/1 DOH Project No. _____ (if applicable);
at 3208 John Nash Boulevard Mile Post 3

in Mercer County, for the purposes hereinafter set forth and in accordance with the plans and specifications which are attached hereto and made a part hereof: (Beautification) Re-contour 200' (linear) of right-of-way directly west of existing property entry. Area will be maintained as mowed grass. See attached plan for grading and seeding work. 4" topsoil with lawn grass mix and mulched per project plans.

APPLICANT further agrees to accept the conditions hereinafter set forth:

1. APPLICANT shall deposit with DIVISION the sum of \$ _____ in the form of an official, certified or cashier's check, or executed bond with surety satisfactory to DIVISION to cover any damage and inspection costs DIVISION may sustain by reason of the granting of this permit, including any expense incurred in restoring said highway to its original condition or the proper repair of any and all damages that may result within one (1) year from the date of the completion of said work.
2. APPLICANT agrees to reimburse DIVISION for inspection costs as follows:
 - A. For any inspection costs incurred under this permit.
 - B. At \$ _____ per linear foot for _____ feet of water line installed under this permit
 - C. At \$ _____ per linear foot for _____ feet of sewer line installed under this permit
3. APPLICANT shall notify DIVISION at least 48 hours in advance of the date the work will begin. Failure to comply will be cause for cancellation of this permit.
4. APPLICANT agrees to protect its employees, equipment and users of the highway at all times in accordance with the current Division of Highways manual "Traffic Control For Street and Highway Construction and Maintenance Operations".
5. APPLICANT agrees to comply with all applicable state and federal laws in the performance of work under this permit.
6. Supplementary conditions cited on the reverse side of this permit are understood and agreed to be a part hereof.
7. The work authorized under this permit shall be completed on or before (Date): _____

Applicant's signature on this permit affirms that all text herein is a verbatim reproduction of The West Virginia Division of Highways Encroachment Permit Form MM-109, revision date May 19, 2005. All attachments are inclusive to this permit.

RECOMMENDED:

Title _____

Signature and Title of Applicant

BOND REQUIREMENT

BOND NO. _____ DATE _____

Attached On File

INSPECTION Owner/Consultant

Full Time Part Time

Periodic Reimbursable No Cost

APPROVED

Title _____

West Virginia Division of Highways

AUTHORIZATION NO: _____

PERMIT NO: _____

CHAPTER 17 WEST VIRGINIA CODE, 1931

§17-4-8. Use of roadbed by railroad, telephone company, etc.

No railroad or electric or other railway shall be constructed upon the roadbed of any state road, except to cross the same, nor shall any person, firm or corporation enter upon or construct any works in or upon such road, or lay or maintain thereon or thereunder any drainage, sewer or water pipes, gas pipes, electric conduits or other pipes, nor shall any telephone, telegraph or electric line or power pole, or any other structure whatsoever, be erected upon, in or over any portion of a state road, except under such restrictions, conditions and regulations as may be prescribed by the state road commissioner. Whenever any railroad or electric or other railway, heretofore or hereafter constructed, shall cross any state road, it shall be required to keep its own roadbed, and the bed of the road or highway constructed, shall cross any repair, or else to construct and maintain an overhead or undergrade crossing, subject to the approval of the state road commissioner; and the tracks of such railroad or railway at grade crossings shall be so constructed as to give a safe and easy approach to and across the same, and when the construction of such approaches is made necessary by a change in the railroad grade at the grade crossing, the cost shall be upon the railway company.

§17-16-6. Permit by commission or county court for openings in or structures on public roads; franchises and easements of oil, etc., transportation companies.

No opening shall be made in any state or county-district road or highway, nor shall any structure be placed therein or thereover, nor shall any structure, which has been so placed, be changed or removed, except in accordance with a permit from the state road commission or county court, as the case may be. No road or highway shall be dug up for laying or placing pipes, sewers, poles or wires, or for other purposes, and no trees shall be planted or removed or obstructions placed thereon, without the written permit of the commission or county court, or its duly authorized agent, and then only in accordance with the regulations of the commission or court. The work shall be done under the supervision and to the satisfaction of the commission or court; and the entire expense of replacing the highway in as good condition as before shall be paid by the persons to whom the permit was given, or by whom the work was done; **Provided, however,** That nothing herein contained shall be so construed as to prevent any oil or gas company or person having a proper permit or franchise from transporting oil or gasoline along any of the public highways of this State, nor to give such company a franchise without paying to the landowners through whose lands such road passes the usual and customary compensation paid or to be paid to the landowners for such right of way. Any grant or franchise when made shall be construed to give to such company or person only the right to use the easement in such public road.

A violation of any provision of this section shall be a misdemeanor, and the person or corporation violating the same shall, upon conviction thereof, be fined not less than twenty-five nor more than one hundred dollars for each offense.

§17-16-9. Private driveways or approaches to roads; obstruction of ditches.

The owner or tenant of land fronting on any state road shall construct and keep in repair all approaches or driveways to and from the same, under the direction of the state road commission, and, likewise, the owner or tenant of land fronting on any county-district road shall construct and keep in repair approaches or driveways to and from the same, under the direction of the county road engineer, and it shall be unlawful for such owner or tenant to fill up any ditch, or place any material of any kind or character in any ditch, so as in any manner to obstruct or interfere with the purposes for which it was made.

SUPPLEMENTARY CONDITIONS

1. The person, firm or corporation to whom a permit is issued agrees to hold the State of West Virginia and DIVISION harmless on account of any damages to persons or property which may arise during the process of the work authorized by this permit or by reason thereof.
2. Applications for permission to perform work within highway rights of way shall be made on DIVISION'S standard permit form and shall be signed by the authorized representative of the person, firm or corporation applying.
3. The APPLICANT shall give detailed information concerning the work to be performed and the application must include a sketch sufficient to show the nature of the work performed.
4. APPLICANT, his agents, successor, heirs or assigns, contractors or any other person, firm or corporation working under APPLICANT'S real or apparent authority, shall perform the work in a manner satisfactory to DIVISION. Damage to the road resulting at any time from work authorized under this permit shall be repaired by APPLICANT. Unsatisfactory repairs may be corrected by DIVISION or its authorized agent and the cost thereof paid by APPLICANT.
5. DIVISION assumes no liability for damage to the proposed work by reason of construction or maintenance work on the road.
6. This permit is granted subject to removal of the authorized installation by APPLICANT at no cost to DIVISION when required for improvement of the road, and subject to all regulations now or hereafter adopted by DIVISION.
7. Utility installation shall be in accordance with the current manual, "Accommodation of Utilities on Highway Right of Way".
8. Driveways shall be in accordance with the current manual, "Rules and Regulations for Constructing Driveways on State Highway Rights-of-Way."
9. DIVISION reserves the right to cancel this permit at any time, should APPLICANT fail to comply with the terms and conditions under which it is granted.
10. This permit is granted only insofar as the DIVISION has a right to do so.

BLUEFIELD AREA TRANSIT
ADMINISTRATION OFFICES & MAINTENANCE FACILITY
ADDENDUM #2

DRAWING: C-101.1

2

REVISED LAWN AREA
SCALE: 1"=30'

N/F
DEPARTMENT OF WEST VIRGINIA
TRACTS 1 & 2
BV 453, PG 592
2565

TUMINOUS SHOULDER

EDGE OF ROAD

2570 JOHN NASH BLVD.

CR 290/1

FORMERLY CUMBERLAND ROAD

2580

EDGE OF ROAD

D.O.H. PERMIT AREA

INV 2569.42

18" CMP.

LAWN AREA

SERVICE POLES

BM RR SPIKE
2575.91

FACILITY SIGN
SEE DETAIL ON
SHEET C-303

30'x6' HIGH
DECORATIVE GATE

REMOVE 12" OF MATERIAL
AND REPLACE WITH 8" OF
CLEAN SOIL & 4" OF TOP
SOIL FOR LAWN AREA

APPROX.
INV. EL. 2561.5

BEGIN AGGREGATE
DRAINAGE BERM
SEE DETAIL ON
SHEET C-303

GRAVEL PARKING AREA

N/F
BLUEFIELD AREA TRANSIT TAX
MAP No. 28
PARCEL 26.1
PLAT RECORD #16769
DBV 966, PG 353
AC. 3.585

16
565.11
555.8
2546.70

CONC

18" RCP

2570

139L-600

OHE

OHE

75

2575

OHE

149L-600

OHE

OHE

2575

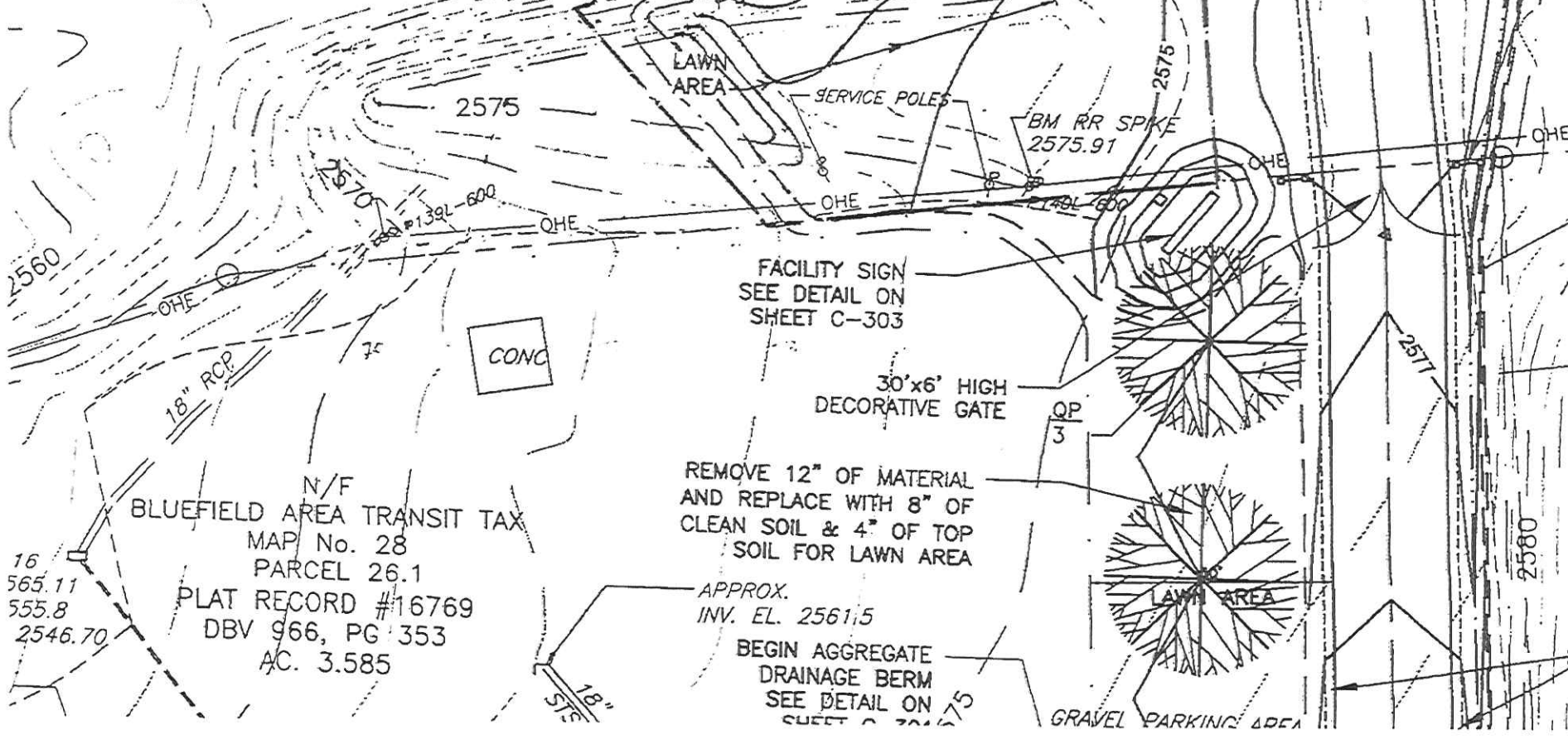
2576.7

2577

2577

2580

18" STS



Form MM-109
Rev. 05-19-05

PERMIT NO. _____

PERMIT TO ENTER UPON, UNDER, OVER OR ACROSS THE STATE ROADS OF THE STATE OF WEST VIRGINIA, AS PROVIDED FOR IN SECTION 6, ARTICLE 16, CHAPTER 17; SECTION 9, ARTICLE 16, CHAPTER 17; SECTION 8, ARTICLE 4, CHAPTER 17, WEST VIRGINIA CODE, 1931, AS AMENDED.

THIS PERMIT, Made this _____ day of _____ 20____, between the WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, a statutory corporation hereinafter called DIVISION and _____

Address: _____ Phone No: _____

hereinafter called APPLICANT.

WITNESSETH

In consideration of the hereinafter set out covenants and in accordance with Section 6, Article 16, Chapter 17; or Section 9, Article 16, Chapter 17; or Section 8, Article 4, Chapter 17, of the Official Code of West Virginia, 1931, as amended, and the rules and regulations promulgated thereunder, APPLICANT does hereby apply to enter

Route Type & No. 290/4 DOH Project No. _____ (if applicable);
at Wild Turkey Road Mile Post .2
in Mercer County, for the purposes hereinafter set forth and in accordance with the plans and specifications which are attached hereto and made a part hereof: Re-contour approximately 70' x 20' of bank to a 2/1 slope. Area to be seeded with Type "D" mix and mulched. See attached plan.

APPLICANT further agrees to accept the conditions hereinafter set forth:

1. APPLICANT shall deposit with DIVISION the sum of \$ _____ in the form of an official, certified or cashier's check, or executed bond with surety satisfactory to DIVISION to cover any damage and inspection costs DIVISION may sustain by reason of the granting of this permit, including any expense incurred in restoring said highway to its original condition or the proper repair of any and all damages that may result within one (1) year from the date of the completion of said work.
2. APPLICANT agrees to reimburse DIVISION for inspection costs as follows:
 - A. For any inspection costs incurred under this permit.
 - B. At \$ _____ per linear foot for _____ feet of water line installed under this permit
 - C. At \$ _____ per linear foot for _____ feet of sewer line installed under this permit
3. APPLICANT shall notify DIVISION at least 48 hours in advance of the date the work will begin. Failure to comply will be cause for cancellation of this permit.
4. APPLICANT agrees to protect its employees, equipment and users of the highway at all times in accordance with the current Division of Highways manual "Traffic Control For Street and Highway Construction and Maintenance Operations".
5. APPLICANT agrees to comply with all applicable state and federal laws in the performance of work under this permit.
6. Supplementary conditions cited on the reverse side of this permit are understood and agreed to be a part hereof.
7. The work authorized under this permit shall be completed on or before (Date): _____

Applicant's signature on this permit affirms that all text herein is a verbatim reproduction of The West Virginia Division of Highways Encroachment Permit Form MM-109, revision date May 19, 2005. All attachments are inclusive to this permit.

RECOMMENDED:

Title _____
Signature and Title of Applicant

BOND REQUIREMENT: BOND NO _____ DATE _____
Attached On File

INSPECTION: Owner/Consultant
Full Time Part Time
Periodic Reimbursable No Cost
APPROVED _____
Title _____
West Virginia Division of Highways

AUTHORIZATION NO: _____ PERMIT NO: _____

CHAPTER 17 WEST VIRGINIA CODE, 1931

§17-4-8. Use of roadbed by railroad, telephone company, etc.

No railroad or electric or other railway shall be constructed upon the roadbed of any state road, except to cross the same, nor shall any person, firm or corporation enter upon or construct any works in or upon such road, or lay or maintain thereon or thereunder any drainage, sewer or water pipes, gas pipes, electric conduits or other pipes, nor shall any telephone, telegraph or electric line or power pole, or any other structure whatsoever, be erected upon, in or over any portion of a state road, except under such restrictions, conditions and regulations as may be prescribed by the state road commissioner. Whenever any railroad or electric or other railway, heretofore or hereafter constructed, shall cross any state road, it shall be required to keep its own roadbed, and the bed of the road or highway at such crossing, in proper repair, or else to construct and maintain an overhead or undergrade crossing, subject to the approval of the state road commissioner; and the tracks of such railroad or railway at grade crossings shall be so constructed as to give a safe and easy approach to and across the same, and when the construction of such approaches is made necessary by a change in the railroad grade at the grade crossing, the cost shall be upon the railway company.

§17-16-6. Permit by commission or county court for openings in or structures on public roads; franchises and easements of oil, etc., transportation companies.

No opening shall be made in any state or county-district road or highway, nor shall any structure be placed therein or thereover, nor shall any structure, which has been so placed, be changed or removed, except in accordance with a permit from the state road commission or county court, as the case may be. No road or highway shall be dug up for laying or placing pipes, sewers, poles or wires, or for other purposes, and no trees shall be planted or removed or obstructions placed thereon, without the written permit of the commission or county court, or its duly authorized agent, and then only in accordance with the regulations of the commission or court. The work shall be done under the supervision and to the satisfaction of the commission or court; and the entire expense of replacing the highway in as good condition as before shall be paid by the persons to whom the permit was given, or by whom the work was done: *Provided, however, That nothing herein contained shall be so construed as to prevent any oil or gas company or person having a proper permit or franchise from transporting oil or gasoline along any of the public highways of this State, nor to give such company a franchise without paying to the landowners through whose lands such road passes the usual and customary compensation paid or to be paid to the landowners for such right of way. Any grant or franchise when made shall be construed to give to such company or person only the right to use the easement in such public road.*

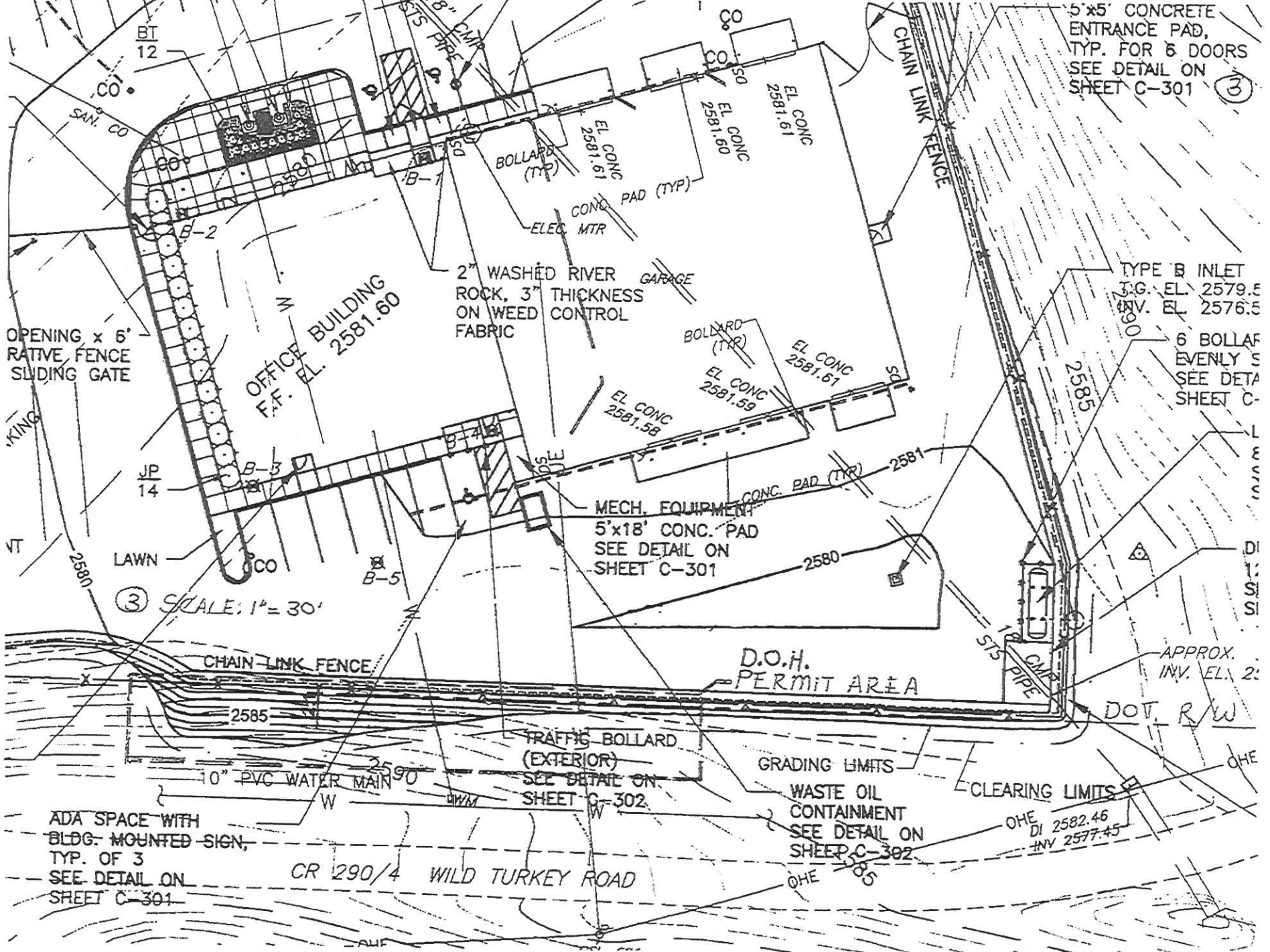
A violation of any provision of this section shall be a misdemeanor, and the person or corporation violating the same shall, upon conviction thereof, be fined not less than twenty-five nor more than one hundred dollars for each offense.

§17-16-9. Private driveways or approaches to roads; obstruction of ditches.

The owner or tenant of land fronting on any state road shall construct and keep in repair all approaches or driveways to and from the same, under the direction of the state road commission, and, likewise, the owner or tenant of land fronting on any county-district road shall construct and keep in repair approaches or driveways to and from the same, under the direction of the county road engineer, and it shall be unlawful for such owner or tenant to fill up any ditch, or place any material of any kind or character in any ditch, so as in any manner to obstruct or interfere with the purposes for which it was made.

SUPPLEMENTARY CONDITIONS

1. The person, firm or corporation to whom a permit is issued agrees to hold the State of West Virginia and DIVISION harmless on account of any damages to persons or property which may arise during the process of the work authorized by this permit or by reason thereof.
2. Applications for permission to perform work within highway rights of way shall be made on DIVISION'S standard permit form and shall be signed by the authorized representative of the person, firm or corporation applying.
3. The APPLICANT shall give detailed information concerning the work to be performed and the application must include a sketch sufficient to show the nature of the work performed.
4. APPLICANT, his agents, successor, heirs or assigns, contractors or any other person, firm or corporation working under APPLICANT'S real or apparent authority, shall perform the work in a manner satisfactory to DIVISION. Damage to the road resulting at any time from work authorized under this permit shall be repaired by APPLICANT. Unsatisfactory repairs may be corrected by DIVISION or its authorized agent and the cost thereof paid by APPLICANT.
5. DIVISION assumes no liability for damage to the proposed work by reason of construction or maintenance work on the road.
6. This permit is granted subject to removal of the authorized installation by APPLICANT at no cost to DIVISION when required for improvement of the road, and subject to all regulations now or hereafter adopted by DIVISION.
7. Utility installation shall be in accordance with the current manual, "Accommodation of Utilities on Highway Right of Way".
8. Driveways shall be in accordance with the current manual, "Rules and Regulations for Constructing Driveways on State Highway Rights-of-Way."
9. DIVISION reserves the right to cancel this permit at any time, should APPLICANT fail to comply with the terms and conditions under which it is granted.
10. This permit is granted only insofar as the DIVISION has a right to do so.



5'x5' CONCRETE
ENTRANCE PAD,
TYP. FOR 6 DOORS
SEE DETAIL ON
SHEET C-301 (3)

TYPE B INLET
3.G. EL. 2579.5
INV. EL. 2576.5
6 BOLLARD
EVENLY S
SEE DETA
SHEET C-

OPENING x 6'
RATIVE FENCE
SLIDING GATE

OFFICE BUILDING
F.F. EL. 2581.60

2" WASHED RIVER
ROCK, 3" THICKNESS
ON WEED CONTROL
FABRIC

MECH. EQUIPMENT
5'x18' CONC. PAD
SEE DETAIL ON
SHEET C-301

D.O.H.
PERMIT AREA

(3) SCALE: 1" = 30'

APPROX.
INV. EL. 2:

DOT R/W

TRAFFIC BOLLARD
(EXTERIOR)
SEE DETAIL ON
SHEET C-302.

GRADING LIMITS
WASTE OIL
CONTAINMENT
SEE DETAIL ON
SHEET C-302.

CLEARING LIMITS

OHE
DI 2582.46
INV 2577.45

ADA SPACE WITH
BLDG. MOUNTED SIGN,
TYP. OF 3
SEE DETAIL ON
SHEET C-301

CR 290/4 WILD TURKEY ROAD

**Bluefield Area Transit
Administrative Office & Maintenance Facility
Contractor Questions & Architect/Owner Responses**

1. **Question:** It appears that the existing elevation contour lines are on one foot intervals. Is this correct?

Response: Yes
2. **Question:** It appears that the new elevation contour line are on one foot intervals. Is this correct?

Response: Yes
3. **Question:** The site does not have any evidence of obtaining top soil. Could the planned quantities and specifications of the topsoil placement be reviewed to minimize the expense of hauling top soil to the site?

Response: See Addendum No. 2 for topsoil clarifications and options. (Note: Sheet C-204 – Waste Area)
4. **Question:** Could the Architect provide a detailed description of the lawn berm and lawn area? What are the minimum requirements from sub-grade to finish lawn berm or lawn grade?

Response: Lawn berm and lawn area are the same. See Addendum No. 2 and Specification 32 90 02 for Grading and Seeding.
5. **Question:** Is the Contractor responsible for recording the Progress Meeting notes and distributing the Progress Meeting notes?

Response: Yes. See Specification 01 31 02.
6. **Question:** Will the Owner allow for the Contractor to use the existing utilities by allowing the Contractor to use the existing utilities will the Contractor pay the Owner the monthly bill?

Response: Yes. See Specification 01 50 00 for details.
7. **Question:** Is Reaford Signs an approved Manufacturer of the exterior sign panels?

Response: Provide detailed information of capabilities.

8. **Question:** Note: 7 Unsuitable soil. The existing material under embankments of 5 foot or less shall be removed to a depth of 1 foot. This material along with all material excavation to a depth of 1 foot is unsuitable for use in the construction of embankment fills and shall be back-filled with unclassified excavation. Where are these limits within the civil drawings?

Response: Drawing C-101, Note 7 is removed by Addendum No. 2.

9. **Question:** During the pre-bid meeting the Architect stated that the existing grade at the fill areas may be permitted to be used as the base to begin the fill. Is this correct?

Response: Yes. A proof roll to verify suitability will be required per WVDOH Handbook.

10. **Question:** Sheet C-302 Detail 1/C-302? What are the limits of this wall?

Response: L-Shape (10' x 4'±).

11. **Question:** Would a precast limestone sill be an acceptable product to cap the screen wall masonry?

Response: Bid as shown.

12. **Question:** How many existing pipe bollards will be required to be covered with the polyethylene covers?

Response: All existing.

13. **Question:** What size are the existing pipe bollards?

Response: Exact height and diameter to be determined by the Contractor.

14. **Question:** The existing metal building wall & roof purlins are already muddy and extremely dusty. To achieve substantial completion what steps or procedures will be required for cleaning the existing building structure?

Response: Water based cleaning is acceptable. Contractor to protect insulation and other items to remain.

15. **Question:** Where and how many access panels are to be installed? (Sheet A-101 Note: P)

Response: Mechanical and plumbing drawing are diagrammatic in nature. Accessible items will be precisely located by Contractor; subject to approval by Architect.

16. Question: Is the Architect requesting R-30 insulation through-out the entire ceiling area or just around the perimeter of the administration building?

Response: See revised Specification 07 23 05 in Addendum No. 2.

17. Question: Is the Architect requiring silicone caulking behind the wall angle for the acoustical ceiling systems?

Response: Sound Batt insulated walls to have acoustical sealant and ceiling system wall angle.

18. Question: Will the soffit return back to the e.f.i.s require caulking?

Response: Yes

19. Question: Is detaching and resetting the overhead crane an option?

Response: If crane is recertified for operation.

20. Question: Will the DBE Listing for Consultants be permitted and counted towards the DBE Goal?

Response: Yes

21. Question: If a DBE is classified under the Consultant listing and is a Contractor as well, can the DBE be used as a Sub-Contractor if licensed and qualified even though their listed on the Consultant List and not the Contractor List. Can they be used towards the DBE goal?

Response: Yes. Keep in mind the type of work the DBE sub-contractor proposes to perform and whether they have been certified by the West Virginia Unified Certification Program Committee (the UCP Committee) in that particular type of work. The WV DBE Directory is comprised of two listings – consultants and contractors. DBE's from either list, provided they are conducting/providing a useful service or function towards the project and are certified as such, may be counted towards the DBE goal. Please contact the West Virginia EEO office to clarify any specific questions you may have regarding the applicable NAICS certifications for the DBEs with whom you plan on subcontracting. The main number for the WV EEO office is (304) 558-3931, and their website is www.eeo.wv.gov. Their offices are located at 1900 Kanawha Blvd., East, Building 5, Room 948, Charleston, WV 25305.

22. Question: Is the project site within City Limits? If so, what is the B&O Tax amounts?

Response: At the present time, the property is not in the city limits of Bluefield.

23. **Question:** In areas that require engineered fill, will 307 class 1 aggregate be permitted for engineered fill? If aggregate is permissible is the lift requirements the same as earth (Dirt) engineered fill?

Response: Yes to both questions.

24. **Question:** During the pre-bid the Architect stated that we could spoil material (earth, dirt and existing gravel) at the designated spoil area that has already been established by Owner. No concrete or boulders may be spoiled on site. Is this correct?

Response: Yes

25. **Question:** Will the Owner be selecting flat, satin or semi-gloss for the interior drywall partitions?

Response: Generally, office areas will not be semi-gloss. Semi-gloss may be requested for functional spaces such as janitor closets and mechanical rooms. We cannot be more specific during the Bidding Period.

26. **Question:** Can a DBE Contractor Sub-contractor any portion of work and still be counted towards the General Contractor's DBE goal?

Response: No, the DBE must self-perform any work that is listed on the bid forms. Please contact the West Virginia EEO office to clarify any specific questions you may have regarding use of the DBE firms with whom you plan on subcontracting. The main number for the WV EEO office is (304) 558-3931, and their website is www.eeo.wv.gov. Their offices are located at 1900 Kanawha Blvd., East, Building 5, Room 948, Charleston, WV 25305.

27. **Question:** Can the (±) 2-3 foot cut material at the back and side of the maintenance building and future administration building be used as fill (±) 4-5 foot material on the front side of the existing maintenance building and future administration building and parking lot? Test bores were conducted. Is the on-site material suitable for fill material?

Response: On-site excavated materials are suitable based on the soils described in the Soils Report in the Specification Book Appendix. Materials to be prepared and placed in accordance with Specification Section 31 23 00.

28. **Question:** After recent research with local long-term residents and businesses, we have been informed this site was used as a spoil area during the tunnel excavation. Boulders of unknown sizes have been spoiled on this site. If boulders are encountered during site utility trenching or footing excavation, how will the excavation and backfill be paid with these conditions. It's clearly unforeseen, therefore, there is no way to estimate how much over-excavation due to boulders, how much compacted backfill will be created due to boulders or how much hammering of boulders due to the size of the boulder. (Please clarify.)

Response: See Addendum No. 2 Section 31 23 00 Excavation, backfill, and Embankment, Revised Page 6.

Bluefield Area Transit
Administrative Office & Maintenance Facility

September 19, 2012

Pre-Bid Meeting Responses to Questions

1. *Question:* Can the asphalt wearing course be increased ½" to 2" and the base asphalt reduced by ½"?

Response: This would be acceptable as a no-cost option.

2. *Question:* Will Owner occupy building during construction?

Response: No. Owner Vendors will require access to building near the finishing stage of construction. The Contractor controls site during construction.

3. *Question:* Can the metal building roofing system be used on the administrative building?

Response: No.

4. *Question:* Is a stand-by generator to be provided by the Contract?

Response: No

5. *Question:* Is there a vehicle exhaust system specification?

Response: The vehicle exhaust system is specified on the drawings and in Addendum No. 2.

6. *Question:* Is the crane certified?

Response: This is not known. However, Planick Steel & Engineering Inc. did the manufacture and installation of the crane.

7. *Question:* Who pays the utilities during construction?

Response: The Contractor. See Specification 01 50 00.

8. *Question:* Can recovered liner panel be used at the bus wash area?

Response: No

9. *Question:* If overhead door alternate is taken, who owns the old doors?

Response: The Contractor is to turn the doors over to the Owner.

10. *Question:* Has the existing building framing been structurally analyzed by the Architect?

Response: The building framing structure has not been analyzed by the Architect. The roofing capacity shall be supplied per design requirements on Sheet S-101.

11. *Question:* Could you provide clarification of the existing building finishes?

Response: See Addendum No. 2 Finish Schedule notes and drawing notes.

12. *Question:* How thick is the concrete under existing administrative building?

Response: The Contractor is permitted to drill holes in the concrete demolition areas to determine thickness prior to the bid. The building will be available Thursday, Oct. 18, 2012, from 10-3PM.

13. *Question:* Is there a storm water permit?

Response: See Sheet C-204 for storm water requirements.

BLUEFIELD AREA TRANSIT
ADMINISTRATIVE OFFICES AND
MAINTENANCE FACILITY

SECTION 013102 - PROJECT MEETINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. General. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 specification sections, apply to this section.

1.2 DESCRIPTION OF WORK

- A. General. The Contractor shall provide the labor and materials necessary to conduct project meetings in accordance with the plans and as specified herein.
- B. This section specifies administrative and procedural requirements for project meetings including but not limited to:
 - 1. Preconstruction conference.
 - 2. Progress meetings.
- C. Construction schedules are specified in another Division 1 section.

1.3 QUALITY ASSURANCE

Not used.

1.4 SUBMITTALS

Not used.

1.5 JOB CONDITIONS

Not used.

1.6 DELIVERY, STORAGE, AND HANDLING

Not used.

1.7 SPECIAL WARRANTY

Not used.

PART 2 - PRODUCTS

Not applicable.

PART 3 - EXECUTION

3.1 PRECONSTRUCTION CONFERENCE

- A. Schedule a preconstruction conference and organizational meeting at the project site or other convenient location no later than 15 days after execution of the agreement and prior to commencement of construction activities. Conduct the meeting to review responsibilities and personnel assignments.
- B. Attendees. The Owner, Engineer/Architect and their consultants, the Contractor and its superintendent, all subcontractors, manufacturers, suppliers and other concerned parties shall each be represented at the conference by persons familiar with and authorized to conclude matters relating to the work. The Owner and/or the Owner's consultant do not have a mandatory requirement to attend any specific meeting scheduled.
- C. Agenda. Discuss items of significance that could affect progress including such topics as:
 - 1. Tentative construction schedule.
 - 2. Critical work sequencing.
 - 3. Designation of responsible personnel.
 - 4. Procedures for processing field decisions and Change Orders.
 - 5. Procedures for processing Applications for Payment.
 - 6. Distribution of Contract Documents.
 - 7. Submittal of shop drawings, product data and samples.
 - 8. Preparation of record documents.
 - 9. Use of the premises.
 - 10. Office, work and storage areas.
 - 11. Equipment deliveries and priorities.
 - 12. Safety procedures.
 - 13. First aid.
 - 14. Security.
 - 15. Housekeeping.
 - 16. Working hours.

3.2 PROGRESS MEETINGS

- A. Progress Meetings. Conduct progress meetings at the project site at regularly scheduled intervals. Notify the Owner and Engineer/Architect of scheduled meeting dates. Coordinate dates of meetings with preparation of the payment request. At a minimum, conduct monthly meetings and twice monthly at critical construction periods.
- B. Attendees. In addition to representatives of the Owner and Engineer/Architect, each subcontractor, supplier or other entity concerned with current progress or involves in planning, coordination of performance of future activities shall be represented at these meetings by persons familiar with the project and authorized to conclude matters relating to progress. . The Owner and/or the Owner's consultant do not have a mandatory requirement to attend any specific meeting scheduled.

BLUEFIELD AREA TRANSIT
ADMINISTRATIVE OFFICES AND
MAINTENANCE FACILITY

- C. Agenda. Review and correct or approve minutes of the previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to the current status of the project.
1. Contractor's Construction Schedule. Review progress since the last meeting. Determine where each activity is in relation to the Contractor's Construction Schedule, whether on time or ahead or behind schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the contract time.
 2. Review the present and future needs of each entity present, including such items as:
 - a. Interface requirements.
 - b. Time.
 - c. Sequences.
 - d. Deliveries.
 - e. Off-site fabrication problems.
 - f. Access.
 - g. Site utilization.
 - h. Temporary facilities and services.
 - i. Hours of work.
 - j. Hazards and risks.
 - k. Housekeeping.
 - l. Quality and work standards.
 - m. Change Orders.
 - n. Documentation of information for payment request.
- D. Reporting. No later than three days after each progress meeting date; distribute copies of minutes of the meeting to each party present and to other parties who should have been present. Include a brief narrative summary of progress since the previous meeting and report. Provide a brief summary of each item that requires action.
1. Schedule Updating. Revise the construction schedule after each progress meeting where revisions to the schedule have been made or recognized. Issue the revised schedule concurrently with the report of each meeting.

END OF SECTION

BLUEFIELD AREA TRANSIT
ADMINISTRATIVE OFFICES AND
MAINTENANCE FACILITY

SECTION 015000 - TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. General. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 specification sections, apply to this section including Section 01100.

1.2 DESCRIPTION OF WORK

- A. General. The Contractor shall provide the labor, tools, equipment, and materials necessary to furnish, install, and maintain the construction facilities in accordance with the plans and as specified herein.
- B. This section specifies requirements for temporary services and facilities, including utilities, construction and support facilities, security and protection.
- C. Temporary utilities required include, but are not limited to existing water and electric are in Bluefield Area Transit possession. Billing during construction period paid by Contractor to Bluefield Area Transit:
1. Water service including water for fire protection during construction.
 2. Temporary electric power.
 3. Telephone service.
 4. Propane service is optional.
- D. Temporary construction and support facilities required include, but are not limited to:
1. Temporary heat. Contractor to provide temporary freeze protection on slabs that are to be permanently enclosed by structure unless structure is constructed and provided with heat above freezing for slab.
 2. Field offices and storage sheds.
 3. Sanitary facilities, including drinking water.
 4. Dewatering facilities and drains.
 5. Temporary enclosures.
 6. Temporary project identification signs and bulletin boards.
 7. Waste disposal services.
 8. Construction aids and miscellaneous services and facilities.
- E. Security and protection facilities required include but are not limited to:
1. Temporary fire protection.
 2. Barricades, warning signs, lights.
 3. Sidewalk bridge or enclosure fence for the site.
 4. Environmental protection.

BLUEFIELD AREA TRANSIT
ADMINISTRATIVE OFFICES AND
MAINTENANCE FACILITY

1.3 QUALITY ASSURANCE

- A. Codes and Standards. Perform all work to furnish and install the construction facilities in compliance with applicable requirements of governing agencies having jurisdiction and in accordance with these plans and as specified herein.
- B. Regulations. Comply with industry standards and applicable laws and regulations of authorities having jurisdiction, including but not limited to:
 - 1. Building code requirements.
 - 2. Health and safety regulations.
 - 3. Utility company regulations.
 - 4. Police, fire department and rescue squad rules.
 - 5. Environmental protection regulations.
- C. Standards. Comply with National Fire Protection Association NFPA 1 Article 16.4.3.1 (NFPA) Code 241 "Building Construction and Demolition Operations," American National Standards Institute (ANSI) A10 Series standards for "Safety Requirements for Construction and Demolition," and National Electrical Contractors Association (NECA) Electrical Design Library "Temporary Electrical Facilities."
 - 1. Refer to "Guidelines for Bid Conditions for Temporary Job Utilities and Services," prepared jointly by AGC and ASC, for industry recommendations.
 - 2. Electrical Service. Comply with National Electrical Manufacturers Association (NEMA), NECA, and Underwriters' Laboratories, Inc. (UL) standards and regulations for temporary electric service. Install service in compliance with National Electric Code (NEC) (NFPA 70).
- D. Inspections. Arrange for authorities having jurisdiction to inspect and test each temporary utility before use. Obtain required certifications and permits.

1.4 SUBMITTALS

Not used.

1.5 JOB CONDITIONS

- A. Conditions of Use. Keep temporary services and facilities clean and neat in appearance. Operate in a safe and efficient manner. Take necessary fire prevention measures. Do not overload facilities, or permit them to interfere with progress. Do not allow hazardous, dangerous, or unsanitary conditions, or public nuisances to develop or persist on the site.

1.6 DELIVERY, STORAGE, AND HANDLING

Not used.

1.7 SPECIAL WARRANTY

Not used.

BLUEFIELD AREA TRANSIT
ADMINISTRATIVE OFFICES AND
MAINTENANCE FACILITY

PART 2 - PRODUCTS

2.1 MATERIALS

- A. General. Provide new materials; if acceptable to the Engineer/Architect, undamaged previously used materials in serviceable condition may be used. Provide materials suitable for the use intended.
- B. Water. Provide potable water approved by local health authorities.

2.2 EQUIPMENT

- A. General. Provide new equipment if acceptable to the Engineer/Architect. Undamaged, previously used equipment in serviceable condition may be used. Provide equipment suitable for use intended.
- B. Water Hoses. Provide ¾-inch heavy duty, abrasion resistant, flexible rubber hoses 100-feet long, with pressure rating greater than the maximum pressure of the water distribution system; provide adjustable shutoff nozzles at hose discharge.
- C. Electrical Outlets. Provide properly configured NEMA polarized outlets to prevent insertion of 110- to 120-volt plugs into higher voltage outlets. Provide receptacle outlets equipped with ground fault circuit interrupters, reset button and pilot light, for connection of power tools and equipment.
- D. Lamps and Light Fixtures. Provide general service incandescent lamps of wattage required for adequate illumination. Provide guard cages or tempered glass enclosures, where exposed to breakage. Provide exterior fixtures where exposed to moisture.
- E. Heating Units. Provide temporary heating units that have been tested and labeled by UL, FM or another recognized trade association related to the type of fuel being consumed.
- F. Temporary Offices. Provide prefabricated or mobile units or similar job built construction with lockable entrances, operable windows and serviceable finishes. Provide heated and air conditioned units on foundations adequate for normal loading.
- G. Temporary Toilet Units. Provide self-contained single occupant toilet units of the chemical, aerated recirculation, or combustion type, properly vented and fully enclosed with a glass fiber reinforced polyester shell or similar nonabsorbent material.
- H. First Aid Supplies. Comply with governing regulations.
- I. Fire Extinguishers. Provide hand carried, portable UL rated, class "A" fire extinguishers for temporary offices and similar spaces. In other locations provide hand carried, portable, UL rated, class "ABC" dry chemical extinguishers, or a combination of extinguishers of NFPA recommended classes for the exposures.

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1. Comply with NFPA 10 and 241 for classification, extinguishing agent and size required by location and class of fire exposure.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Use qualified personnel for installation of temporary facilities. Locate facilities where they will serve the project adequately and result in minimum interference with performance of the work. Relocate and modify facilities as required.
- B. Provide each facility ready for use when needed to avoid delay. Maintain and modify as required. Do not remove until facilities are no longer needed, or are replaced by authorized use of completed permanent facilities.

3.2 TEMPORARY UTILITY INSTALLATION

- A. General. Engage the appropriate local utility company to install temporary service or connect to existing service. Where the company provides only part of the service, provide the remainder with matching, compatible materials and equipment; comply with the company's recommendations.
 1. Arrange with the company and existing users for a time when service can be interrupted, where necessary, to make connections for temporary services.
 2. Provide adequate capacity at each stage of construction. Prior to temporary utility availability, provide trucked-in services.
 3. Obtain easements to bring temporary utilities to the site, where the Owner's easements cannot be used for that purpose.
 4. Use Charges. Cost or use charges for temporary facilities are not chargeable to the Owner or Engineer/Architect, and will not be accepted as a basis of claims for a Change Order.
 5. Use charges for existing units: All cost for amount of service used will be paid for by the Contractor. Service from each utility will be paid by the Contractor directly to the building owner when presented with a proper accounting by the building owner from time of Notice to Proceed to Substantial Completion.
- B. Water Service. Install water service and distribution piping of sizes and pressures adequate for construction until permanent water service is in use.
 1. Sterilization. Sterilize temporary water piping prior to use.
- C. Temporary Electric Power Service. Provide weatherproof, grounded electric power service and distribution system of sufficient size, capacity, and power characteristics during construction period. Include meters, transformers, overload protected disconnects, automatic ground fault interrupters and main distribution switch gear.
 1. Power Distribution System. Install wiring overhead, and rise vertically where least exposed to damage. Where permitted, wiring circuits not exceeding 125 volts, AC 20-ampere rating, and lighting circuits may be sheathed nonmetallic cable where overhead and exposed for surveillance.

BLUEFIELD AREA TRANSIT
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- D. Temporary Lighting. Whenever overhead floor or roof deck has been installed, provide temporary lighting with local switching.
 - 1. Install and operate temporary lighting that will fulfill security and protection requirements, without operating the entire system, and will provide adequate illumination for construction operations and traffic conditions.
- E. Temporary Telephones. Provide temporary telephone service for all personnel engaged in construction activities, throughout the construction period.
 - 1. Post a list of important telephone numbers at each telephone.

3.3 TEMPORARY CONSTRUCTION AND SUPPORT FACILITIES INSTALLATION

- A. Locate field offices, storage sheds, sanitary facilities and other temporary construction and support facilities for easy access.
 - 1. Maintain temporary construction and support facilities until near Substantial Completion. Remove prior to Substantial Completion. Personnel remaining after Substantial Completion will be permitted to use permanent facilities, under conditions acceptable to the Owner.
- B. Temporary Heat. Provide temporary heat required by construction activities, for curing or drying of completed installations or protection of installed construction from adverse effects of low temperatures or high humidity. Select safe equipment that will not have a harmful effect on completed installations or elements being installed. Coordinate ventilation requirements to produce the ambient condition required and minimize consumption of energy.
- C. Heating Facilities. Except where use of the permanent system is authorized, provide vented, self-contained, low-pressure gas or fuel oil heaters with individual space thermostatic control.
 - 1. Use of gasoline burning space heaters, open flame, or salamander type heating units is prohibited.
- D. Field Offices. Provide insulated, weather tight temporary offices of sufficient size to accommodate required office personnel at the project site. Keep the office clean and orderly for use for small progress meetings. Furnish and equip offices as follows:
 - 1. Furnish with a desk and chairs, a four drawer file cabinet, plan table and plan rack and a six shelf bookcase.
- E. Storage and Fabrication Sheds. Install storage and fabrication sheds, sized, furnished and equipped to accommodate materials and equipment involved, including temporary utility service. Sheds may be open shelters or fully enclosed spaces within the building or elsewhere on the site.

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- F. Sanitary facilities include temporary toilets, wash facilities and drinking water fixtures. Comply with regulations and health codes for the type, number, location, operation and maintenance of fixtures and facilities. Install where facilities will best serve the project's needs.
 - 1. Provide toilet tissue, paper towels, paper cups and similar disposable materials for each facility. Provide covered waste containers for used material.
- G. Toilets. Install self-contained toilet units. Shield toilets to ensure privacy. Use of pit type privies will not be permitted.
- H. Wash Facilities. Install wash facilities supplied with potable water at convenient locations for personnel involved in handling materials that require wash-up for a healthy and sanitary condition. Dispose of drainage properly. Supply cleaning compounds appropriate for each condition.
- I. Drinking Water Facilities. Provide containerized tap dispenser bottled water type drinking water units, including paper supply.
- J. Dewatering Facilities and Drains. For temporary drainage and dewatering facilities and operations not directly associated with construction activities included under individual sections, comply with dewatering requirements of applicable Division 2 sections. Where feasible, utilize the same facilities. Maintain the site, excavations and construction free of water.
- K. Collection and Disposal of Waste. Collect waste from construction areas and elsewhere daily. Comply with requirements of NFPA 241 for removal of combustible waste material and debris. Enforce requirements strictly. Do not hold materials more than seven (7) days during normal weather or three (3) days when the temperature is expected to rise above 80 °F. (27 °C.). Handle hazardous, dangerous, or unsanitary waste materials separately from other waste by containerizing properly. Dispose of material in a lawful manner.

3.4 SECURITY AND PROTECTION FACILITIES INSTALLATION

- A. Except for use of permanent fire protection as soon as available, do not change over from use of temporary security and protection facilities to permanent facilities until Substantial Completion, or longer as requested by the Engineer/Architect.
- B. Temporary Fire Protection. Until fire protection needs are supplied by permanent facilities, install and maintain temporary fire protection facilities of the types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 1 Article 16.4.3.1.1 and NFPA 10 "Standard for Portable Fire Extinguishers," and NFPA 241 "Standard for Safeguarding Construction, Alterations and Demolition Operations."

BLUEFIELD AREA TRANSIT
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1. Locate fire extinguishers where convenient and effective for their intended purpose, but not less than one extinguisher on each floor at or near each usable stairwell.
 2. Store combustible materials in containers in fire safe locations.
 3. Maintain unobstructed access to fire extinguishers, fire hydrants, temporary fire protection facilities, stairways and other access routes for fighting fires. Prohibit smoking in hazardous fire exposure areas.
 4. Provide supervision of welding operations, combustion type temporary heating units, and similar sources of fire ignition.
- C. Barricades, Warning Signs and Lights. Comply with standards and code requirements for erection of structurally adequate barricades. Paint with appropriate colors, graphics and warning signs to inform personnel and the public of the hazard being protected against. Where appropriate and needed provide lighting, including flashing red or amber lights.
- D. Environmental Protection. Provide protection, operate temporary facilities and conduct construction in ways and by methods that comply with environmental regulations, and minimize the possibility that air, waterways and subsoil might be contaminated or polluted, or that other undesirable effects might result. Avoid use of tools and equipment that produce harmful noise. Restrict use of noise making tools and equipment to hours that will minimize complaints from persons or firms near the site.

3.5 OPERATION, TERMINATION AND REMOVAL

- A. Maintenance. Maintain facilities in good operating condition until removal. Protect from damage by freezing temperatures and similar elements.
1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation and similar facilities on a 24 hour day basis where required to achieve indicated results and to avoid possibility of damage.
 2. Protection. Prevent water filled piping from freezing. Maintain markers for underground lines. Protect from damage during excavation operations.
- B. Termination and Removal. Unless the Engineer/Architect requests that it be maintained longer, remove each temporary facility when the need has ended, or when replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with the temporary facility. Repair damaged work, clean exposed surfaces and replace construction that cannot be satisfactorily repaired.
1. Materials and facilities that constitute temporary facilities are property of the Contractor. The Owner reserves the right to take possession of project identification signs.

BLUEFIELD AREA TRANSIT
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2. At Substantial Completion, clean and renovate permanent facilities that have been used during the construction period, including but not limited to:
 - a. Replace air filters and clean inside of ductwork and housings.
 - b. Replace significantly worn parts and parts that have been subject to unusual operating conditions.
 - c. Replace lamps that are burned out or noticeably dimmed by substantial hours of use.

END OF SECTION

SECTION 32 90 02

GRADING AND SEEDING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. **General.** Drawings and general provisions of the Contract, including General and Supplementary Conditions, Division 1, and all related specification sections, apply to this section.

1.2 DESCRIPTION OF WORK

- A. **Scope of Work.** Provide the grading and seeding as shown and specified herein.

1.3 QUALITY ASSURANCE

A. **Certificate of Inspection**

1. Ship all seeds with a certificate of inspection in accordance with the governing authorities.
2. Label all bags of seed and fertilizer with legible waterproof tags or directly on the bag.

1.4 SUBMITTALS

A. **General**

1. Submit all submittals in accordance with the Division 1 Submittal Requirements and this specification section.

B. **Submittal Package No. 1 – Product Data and Certified Statement**

1. Submit seed vendor's certified statement for each grass seed mixture required that includes:
 - a. Botanical and common name.
 - b. Percentage by weight.
 - c. Percentages of purity, germination, and weed seed for each grass seed species.
2. **Product Data.** Submit information on all materials included in this specification.

1.5 JOB CONDITIONS

- A. **General.** Proceed with grading and seeding as soon as portions of the site become available, working within seasonal limitations and the seed manufacturer's recommended limitations regarding weather conditions and temperatures.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Delivery

1. Deliver seed only when site conditions are ready.
2. Deliver materials in unopened containers showing weight, mixture analysis, package date, and manufacturer.

B. Storage and Handling

1. Store and cover material to prevent wetting and deterioration.
2. Remove packages from the site that have become wet, moldy, or damaged, or show water marks.

1.7 SPECIAL WARRANTY

Not used.

PART 2 - PRODUCTS

2.1 MATERIAL

A. Topsoil. Topsoil shall contain:

1. A maximum of 40 percent clay in that portion passing a No. 10 sieve.
2. Between 5 and 20 percent organic matter as determined by loss on ignition of samples oven-dried at 212 degrees Fahrenheit ($^{\circ}$ F.) to a constant weight.

B. Fertilizer. Fertilizer shall contain the specified percentages of total nitrogen, available phosphoric acid, and water soluble potash. The weight, name of plant nutrients, and guaranteed percentages shall be marked on the sealed fertilizer containers.

1. 12-12-12. This fertilizer shall be used with Seed Mixes 1, 2, 3, and 5.
2. 5-10-10. This fertilizer shall be used with Seed Mix 4 (Crownvetch).

C. Inoculant. Treat Seed Mix 4 (Crownvetch) with inoculant culture of nitrogen fixing bacteria less than 1 year old.

D. Seed. Percentages are by weight.

	Minimum Germination	Minimum Purity
1. Seed Mix 1		
40% Kentucky Bluegrass (<i>Pos pratensis</i>)	75%	85%
40% Creeping Red Fescue (<i>Festuca rubra</i>)	85%	98%
20% Annual Ryegrass (<i>Lolium multiflorum</i>)	85%	95%

		Minimum Germination	Minimum Purity
2.	Seed Mix 2 30% Kentucky Bluegrass (<i>Poa pratensis</i>) 50% Kentucky 31 Fescue (<i>Festuca arundinacea</i> var. Ky. 31) 20% Annual Ryegrass (<i>Lolium multiflorum</i>)	75%	85%
		85%	95%
		85%	95%
3.	Seed Mix 3 90% Perennial Ryegrass (<i>Lolium perenne</i>) 10% Alsike Clover (<i>Trifolium hybridum</i>)	85%	95%
		85%*	98%
4.	Seed Mix 4 (Crownvetch) 30% Crownvetch (<i>Coronilla varia</i>) 30% Kentucky 31 Fescue (<i>Festuca arundinacea</i> var. Ky. 31) 30% (Pennlawn) Red Fescue (<i>Festuca rubra</i>) 10% Annual Ryegrass (<i>Lolium multiflorum</i>)	70%*	99%
		85%	95%
		85%	98%
		85%	95%
5.	Seed Mix 5 80% Kentucky Bluegrass (<i>Poa pratensis</i>) 20% Annual Ryegrass (<i>Lolium multiflorum</i>)	75%	85%
		85%	95%

*Germination includes a total of quick germination plus hard seeds.

E. Mulch

1. Straw. Straw mulch shall be baled wheat or oat straw free of weed seed, sticks, or other foreign material.
2. Wood Cellulose Fiber. Dye the wood cellulose fiber mulch green.

F. Asphalt Emulsion. Do not use asphalt emulsions.

G. Mow Strip Blocks

1. Install concrete mow strips as shown and specified herein. Mow strips shall be precast concrete. Provide two anchor pins for each block. Field-cut blocks to achieve necessary radii.
2. Description.
 - a. Height. 6 inches.
 - b. Width. 8 inches.

- c. Length. 8 feet.
- d. Securing Holes. 7/8-inch diameter.
- e. Anchor Pins. No. 6 reinforcement bar, galvanized, 16 inches long.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. **Verification.** Verify that final grades and elevations have been achieved in all areas. Remove all exposed debris and stones larger than 3/4 inch in any dimension from seeded areas.

3.2 PREPARATION

- A. **Soil Tests.** Test soil as necessary to ensure acceptable seeding conditions.

3.3 SEEDING

- A. **Seed Mix.** Seed all privately owned lawns with Seed Mix 5. On all privately owned cultivated fields, place the seedbed but do not seed. Seed all other disturbed areas with Seed Mix 1, unless otherwise noted.

- B. **Preparation of Seedbed**

- 1. Remove, stockpile, and use for seedbed topsoil that is available as part of the excavated material.
- 2. Remove all grass, weeds, roots, sticks, stones, and other debris and finish the seedbed with careful hand raking.
- 3. If there is a deficiency of topsoil as part of the excavated materials, provide topsoil from another source at no cost to the Owner.
- 4. The seedbed shall be a minimum of 4 inches of topsoil.
- 5. Prepare a smooth seedbed before seeding.

- C. **Dry Seeding.** When a seed mix is sown dry, apply the materials as follows:

- 1. **Fertilizing.**

- a. Apply fertilizer uniformly to all areas to be seeded at the rate of 10 pounds per 1,000 square feet.
- b. Disk, harrow, or rake the fertilizer into the seedbed to a depth of 2 inches.

- 2. **Seeding.** Mix thoroughly and sow uniformly the seed over the prepared areas. After sowing, rake, drag, or otherwise treat the area to cover the seed with soil to a depth of 1/4 inch.

- a. Seed Mixes 1, 2, 3, and 5. Sow these seed mixes at a rate of 3 pounds per 1,000 square feet.
- b. Seed Mix 4 (Crownvetch). Sow this seed mix at a rate of 2 pounds per 1,000 square feet. Before sowing, inoculate it in

accordance with manufacturer's directions. Sow this seed mix only from November through August.

3. Water. Water the seeded areas at the completion of the sowing and weekly thereafter until accepted by the Owner.
4. Mulching.
 - a. Place straw mulching material evenly over all seeded areas within 48 hours of seeding at a rate of 2 tons per acre between March 15 and October 15 and at a rate of 3 tons per acre between October 16 and March 14.
 - b. Secure straw mulching material by approved methods.
 - c. When mulching is displaced, replace it and reseed the area; repair other work damaged as a result of mulch displacement.

D. Hydraulic Seeding

1. When seed is applied hydraulically, use a combined slurry of fertilizer, inoculant when required, seed, and wood cellulose fiber mulch in one operation.
2. Increase the inoculant for Seed Mix 4 (Crownvetch) to five times the manufacturer's recommended rate for dry seeding.
3. Mix wood cellulose fiber at a rate of 1,500 pounds per acre.
4. Mix fertilizer and seed at the rate specified for dry seeding.

3.4 MAINTENANCE

- A. **General.** Maintain seeded areas. Fill, grade, and reseed settled and eroded areas. Seeding will not be accepted unless it is alive and healthy.

3.5 DEMONSTRATION

- A. **Seeded Area.** Before final acceptance the seeded area shall have:
1. A minimum of 100 grass plants per square foot and less than 2 percent bare spots over the entire area.
 2. No individual bare spots larger than 6 square inches

END OF SECTION

PRE-BID CONFERENCE
SIGN IN SHEET

1/3

Request for Quotation Number:

PTR13001

Date:

9/19/2012 0:00

Project Description:

Administrative Office Construction and Renovation of Maintenance Facility

PLEASE PRINT LEGIBLY. THIS INFORMATION IS ESSENTIAL TO CONTACT THE ATTENDEES IN A TIMELY MANNER. FAILURE TO DO SO MAY RESULT IN DELAYS IN YOUR COMPANY GETTING IMPORTANT BID INFORMATION.

Firm Name:	MCP Enterprises
Firm Address:	3845 Teays Valley Rd Hurricane WV 25516
Representative Attending:	Kevin Haynes
Phone Number:	304-539-4956
Fax Number:	304-513-6484
Email Address:	Kevin.Haynes@MCPEnterprisesLLC.com

Firm Name:	OVAL Const
Firm Address:	P.O. Box 401 CHARLESTON WV 25302
Representative Attending:	JAMES STILTNER/ERIC COFFEY
Phone Number:	304 347 8820
Fax Number:	304 347 8821
Email Address:	ecoffey@ovalconstruction.com

Firm Name:	FOSTER SUPPLY
Firm Address:	PO BOX 488 SCOT DEPOT WV 25360
Representative Attending:	DERRICK SEARS
Phone Number:	304-553-6565
Fax Number:	304-755-8280
Email Address:	dsears@fostersupply.com

Firm Name:	SWOPE CONSTRUCTION
Firm Address:	1325 Blvd. Ave Bluefield, WVa 24701
Representative Attending:	William Tickle
Phone Number:	304-920-2462
Fax Number:	304-327-9444
Email Address:	wtickle@swopeco.com

Firm Name:	GRAE-CON CONSTRUCTION
Firm Address:	101 INDUSTRY ROAD MARIETTA, OH 45750
Representative Attending:	TIM COLLINS
Phone Number:	740-373-0849
Fax Number:	740-373-0863
Email Address:	pthompson@graecon.com

Firm Name:	Venture One Construction
Firm Address:	3883 Virginia Avenue Cincinnati OH 45227
Representative Attending:	Randy Zins
Phone Number:	513 527 4055
Fax Number:	513 527 4066
Email Address:	zak@vlcinc.com

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SIGN IN SHEET

2/3

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9/19/2012 0:00

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Firm Name:	<u>The Summit Electric Group</u>
Firm Address:	<u>Box 254 Hurricane WV 25526</u>
Representative Attending:	<u>Tom Keatley</u>
Phone Number:	<u>304-562-7091</u>
Fax Number:	<u>304-475-9630</u>
Email Address:	<u>tm@tseginc.com</u>

Firm Name:	<u>Danhill Construction Company</u>
Firm Address:	<u>P.O. Box 685 Cawley Bridge, W.V. 25285</u>
Representative Attending:	<u>Chris Dozier</u>
Phone Number:	<u>304-632-1600</u>
Fax Number:	<u>304-632-1501</u>
Email Address:	<u>cdozier33@yahoo.com</u>

Firm Name:	<u>Southern Air Inc</u>
Firm Address:	<u>848 Mercer Mall Road Bluefield WV 24701</u>
Representative Attending:	<u>Jeff Justice</u>
Phone Number:	<u>304-324-4272</u>
Fax Number:	<u>304-324-4274</u>
Email Address:	<u>jeff.justice@southern-air.com</u>

Firm Name:	<u>Paramount Builders LLC</u>
Firm Address:	<u>501 6TH AVE Sta Albans W 25177</u>
Representative Attending:	<u>Chris Shaw</u>
Phone Number:	<u>304 727 2770</u>
Fax Number:	<u>304 727 0302</u>
Email Address:	<u>C.shaw@paramountwv.com</u>

Firm Name:	<u>Southern Air Inc</u>
Firm Address:	<u>848 Mercer Mall Road Bluefield WV 24701</u>
Representative Attending:	<u>David Stowers</u>
Phone Number:	<u>304-324-4272</u>
Fax Number:	<u>304-324-4274</u>
Email Address:	<u>david.stowers@southern-air.com</u>

Firm Name:	<u>Cindy Fish / Division of Public Transit</u>
Firm Address:	<u>Bldg. 5, Rm. 906 1900 Kanawha Blvd., E Charleston, WV 25305-0432</u>
Representative Attending:	<u>Cindy Fish</u>
Phone Number:	<u>304-558-0428</u>
Fax Number:	<u>304-558-0174</u>
Email Address:	<u>Cindy.E.Fish@wv.gov</u>

PRE-BID CONFERENCE
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3/3

Request for Quotation Number:

PTR13001

Date:

9/19/2012 0:00

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Firm Name:	<u>Susan O'Connell</u>
Firm Address:	<u>Division of Public Transit</u>
Representative Attending:	
Phone Number:	
Fax Number:	
Email Address:	

Firm Name:	<u>BEN</u>
Firm Address:	<u>4424 EMERSON AVE.</u>
	<u>PARKERSBURG</u>
Representative Attending:	<u>JAY WILLIAM</u> 26104
Phone Number:	<u>304 485 8541</u>
Fax Number:	
Email Address:	

Firm Name:	<u>Jammy Bennett</u>
Firm Address:	<u>Bluefield Area Transit</u>
Representative Attending:	
Phone Number:	
Fax Number:	
Email Address:	

Firm Name:	<u>North</u>
Firm Address:	<u>DPT</u>
Representative Attending:	
Phone Number:	
Fax Number:	
Email Address:	

Firm Name:	<u>Patrick McKinney</u>
Firm Address:	<u>Bluefield Area Transit</u>
Representative Attending:	
Phone Number:	
Fax Number:	
Email Address:	

Firm Name:	
Firm Address:	
Representative Attending:	
Phone Number:	
Fax Number:	
Email Address:	

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: PTR13001

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 acknowledgment should be submitted with the bid to expedite document processing.