

# Hornor

Since  
1902

# Bros. Engineers

Civil, Environmental and Consulting Engineering

Post Office Box 386 • Clarksburg, West Virginia 26302 • (304) 624-6445 • Fax (304) 624-6448 • www.HornorBrosEng.com

October 20, 2008

**VIA FEDERAL EXPRESS**

Environmental Protection Department of  
Office of AML&R  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304

c/o Department of Administration  
Purchasing Division  
Attention: Chuck Bowman  
2019 Washington Street East, Bldg. 15  
P.O. Box 50130  
Charleston, WV 25305-0130

RECEIVED

2008 OCT 21 A 10:18

PURCHASING DIVISION  
STATE OF WV

**RE: RFQ-DEP 14385**

Dear Mr. Bowman:

Hornor Brothers Engineers is pleased to provide this response to your RFQ for mapping services for northern West Virginia. Hornor Brothers Engineers is a full service civil engineering and surveying firm that has been in continuous business for over 100 years. Our firm is well qualified and experienced in the type of services you desire for these projects, and meets all qualification requirements listed in the RFQ.

Below is the information to be included as described on page 13 of the RFQ:

**Item 1: Names of individuals performing work**

- John W. Hornor, LLS #1955
- Paul A. Hornor III, LLS#1565
- Thomas D. Corathers, LLS#890
- Tim Larue, field crew party chief
- Caleb Heise, field crew rodman
- Tom Childers, CAD operator

Note: John W. Hornor is the Survey Manager for Hornor Brothers Engineers and would be the project manager and primary point of contract for this project.

Item 2: Similar projects completed by Hornor Brothers Engineers

- Shores Enterprises, LLC, Alta Survey, features and topographic survey (6 acres).
- Gannett Fleming, Inc. Features and topographic surveys for three storage dam sites owned by the Clarksburg Water Board.
- WYK and Associates. Features and topographic surveys for Tolley Electric complex.
- United Hospital Center. Aerial topographic survey for 130 acre site development.
- Shiloh Development, LLC. Feature and topographic survey for housing subdivision (2 acres)
- Home Depot. Feature and topographic ALTA survey at Bridgeport store (17 acres).
- Lakeland Terrace. Feature and topographic survey for drainage improvement plan.
- Gannett Fleming, Inc. Feature and topographic surveys for valve replacement project in Clarksburg
- Alwood Company. As built feature and topographic survey for Osage Mines and Yoursco Portals mine subsidence.
- Glimcher Group. Features and topographic survey for Clarksburg Terrace Plaza (19 acres)
- Gannett Fleming. Vertical and horizontal control for aerial topographic survey for Hardy County NRCS dam (51 acres).
- Gannett Fleming. Features and aerial topographic survey for Elkwater Fork NRCS dam (1,100 acres).
- Travelers Development, LLC. Features and aerial topographic survey for 20 acre site.
- Harrison Rural Electrification Association. Features and topographic survey for Bridgeport Substation.
- Harrison Rural Electrification Association. Features and topographic survey for Chiefton Substation.
- WYK and Associates. Features and topographic survey for PDC office complex.
- WYK and Associates. Features and topographic survey for Pressley Ridge School.
- City of Bridgeport. Features and topographic survey for soccer fields design.
- URS Corporation. ALTA feature and topographic survey for Aurora Flight Sciences.
- Bill Morton. Features and topographic survey for Heritage Farms Subdivision (168 acres).
- Elkview Builders, Inc. Feature and topographic survey for Bridgeport medical office building.
- WYK and Associates. Features and topographic survey for WVU Credit Union site.
- Bridgeport Storage, LLC. Features and topographic survey for storage unit sites.
- J. Michael Poole. Features and topographic survey for business park in Belington.
- Michael Fresa. Features and topographic survey for Meadowbrook business park (58 acres).
- WYK and Associates. Features and topographic survey for Clarksburg Fire Station Complex.

Mr. Chuck Bowman  
Environmental Protection Department of  
Office of AML&R  
October 20, 2008  
Page 3

Item 3

- Stanley Subsidence II AML Enhancement Project (4 acres).
- Andy Lang Industrial Site (11 acres)
- Bridgeport Fire Station
- Miscellaneous property surveys

Item 4

- Project Manager – John W. Hornor, LLS #1955.

Item 5

- Our firm has been performing topographic surveys for over 50 years, and has experience in aerial topographic mapping working with Keddal Aerial Mapping as our sub-consultant.

I am enclosing a copy of our company brochure for your review. Hornor Brothers Engineers appreciates the opportunity to submit our qualifications for these projects. If you should have any questions about the information provided, please feel free to contact me at 304-624-6445.

Yours truly,

HORNOR BROTHERS ENGINEERS



Trey Hornor  
PRESIDENT

TH:jmw  
Enclosure  
cc: Keddal Aerial Mapping (letter only)  
File: Proposals, WVDEP, AML



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**RFQ No.: DEP 14285**  
**Bid Opening Date: 10/21/2008**  
**Bid Opening Time: 1:30 p.m.**



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

# Request for Quotation

RFQ NUMBER  
**DEP14385**

PAGE  
**1**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**CHUCK BOWMAN**  
**304-558-2157**

RFQ COPY  
 TYPE NAME/ADDRESS HERE

Hörnor Brothers Engineers  
 P.O. Box 386  
 Clarksburg, WV 26302-0386

ENVIRONMENTAL PROTECTION  
 DEPARTMENT OF  
 OFFICE OF AML&R  
 601 57TH STREET SE  
 CHARLESTON, WV  
 25304 304-926-0499

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
10/01/2008				

BID OPENING DATE: **10/21/2008** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UCP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		962-52		
<p>MAPPING SERVICES FOR NORTHERN COUNTIES</p> <p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S OFFICE OF ABANDONED MINE LANDS &amp; RECLAMATION, IS SOLICITING BIDS FROM INTERESTED VENDORS QUALIFIED TO PROVIDE MAPPING SERVICES IN THE NORTHERN COUNTIES OF WEST VIRGINIA PER THE FOLLOWING SPECIFICATIONS, TERMS &amp; CONDITIONS, BID REQUIREMENTS, SCOPE OF WORK, AND THE FOLLOWING BID SCHEDULE.</p> <p>THESE MAPPING SERVICES WILL RESULT IN THE DEVELOPMENT OF CONTRACT DOCUMENTS FOR DESIGN &amp; CONSTRUCTION PROJECTS THROUGHOUT THE NORTHERN COUNTIES OF WEST VIRGINIA INDICATED HEREIN.</p> <p>EXHIBIT 3</p> <p>LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE UPON AWARD AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING 30 DAYS WRITTEN NOTICE.</p> <p>UNLESS SPECIFIC PROVISIONS ARE STIPULATED ELSEWHERE IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *Teey Loran* TELEPHONE: 304-624-6445 DATE: October 20, 2008

TITLE: President FEIN: 55-0197150 ADDRESS CHANGES TO BE NOTED ABOVE

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

**GENERAL TERMS & CONDITIONS**  
**REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
5. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
15. **WEST VIRGINIA ALCOHOL & DRUG-FREE WORKPLACE ACT:** If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."

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**INSTRUCTIONS TO BIDDERS**

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in case of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130



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

# Request for Quotation

RFQ NUMBER:  
**DEP14385**

PAGE:  
**2**

ADDRESS CORRESPONDENCE TO ATTENTION OF:  
**CHUCK BOWMAN  
 304-558-2157**

**RFQ COPY**

**TYPE NAME/ADDRESS HERE**

Hornor Brothers Engineers  
 P.O. Box 386  
 Clarksburg, WV 26302-0386

**ENVIRONMENTAL PROTECTION  
 DEPARTMENT OF  
 OFFICE OF AML&R  
 601 57TH STREET SE  
 CHARLESTON, WV  
 25304 304-926-0499**

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
10/01/2008				

BID OPENING DATE: **10/21/2008** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p><b>CONTRACT.</b></p> <p><b>RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS.</b></p> <p><b>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</b></p> <p><b>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK.)</b></p> <p><b>QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIED BY THE STATE SPENDING UNIT. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACT SHALL COVER THE QUANTITIES ACTUALLY ORDERED FOR DELIVERY DURING THE TERM OF THE CONTRACT, WHETHER MORE OR LESS THAN THE QUANTITIES SHOWN.</b></p> <p><b>ORDERING PROCEDURE: SPENDING UNIT(S) SHALL ISSUE A WRITTEN STATE CONTRACT ORDER (FORM NUMBER WV-39) TO THE VENDOR FOR COMMODITIES COVERED BY THIS CONTRACT. THE ORIGINAL COPY OF THE WV-39 SHALL BE MAILED TO THE</b></p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Tracy L. Lane</i>	TELEPHONE 304-624-6445	DATE October 20, 2008
TITLE President	FEIN 55-0197150	ADDRESS CHANGES TO BE NOTED ABOVE

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



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

# Request for Quotation

RFQ NUMBER  
**DEP14385**

PAGE  
**3**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**CHUCK BOWMAN  
 304-558-2157**

VENDOR

**RFQ COPY**  
 TYPE NAME/ADDRESS HERE  
 Hornor Brothers Engineers  
 P.O. Box 386  
 Clarksburg, WV 26302-0386

SHIP TO

**ENVIRONMENTAL PROTECTION  
 DEPARTMENT OF  
 OFFICE OF AML&R  
 601 57TH STREET SE  
 CHARLESTON, WV  
 25304 304-926-0499**

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
10/01/2008				

BID OPENING DATE: **10/21/2008** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UCF	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>VENDOR AS AUTHORIZATION FOR SHIPMENT, A SECOND COPY MAILED TO THE PURCHASING DIVISION, AND A THIRD COPY RETAINED BY THE SPENDING UNIT.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p> <p>THE TERMS AND CONDITIONS CONTAINED IN THIS CONTRACT SHALL SUPERSEDE ANY AND ALL SUBSEQUENT TERMS AND CONDITIONS WHICH MAY APPEAR ON ANY ATTACHED PRINTED DOCUMENTS SUCH AS PRICE LISTS, ORDER FORMS, SALES AGREEMENTS OR MAINTENANCE AGREEMENTS, INCLUDING ANY ELECTRONIC MEDIUM SUCH AS CD-ROM.</p> <p>REV. 04/11/2001</p> <p>EXHIBIT 10</p> <p style="text-align: center;">REQUISITION NO.: DEP14385</p> <p>ADDENDUM ACKNOWLEDGEMENT</p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NO.'S:</p> <p>NO. 1 .....</p> <p>NO. 2 .....</p> <p>NO. 3 .....</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Tracy Loran</i>	TELEPHONE 304-624-6445	DATE October 20, 2008
TITLE President	FAX 55-0197150	ADDRESS CHANGES TO BE NOTED ABOVE

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





State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
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### Request for Quotation

RFQ NUMBER  
**DEP14385**

PAGE  
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ADDRESS CORRESPONDENCE TO ATTENTION OF  
**CHUCK BOWMAN**  
**304-558-2157**

VENDOR

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 Hornor Brothers Engineers  
 P.O. Box 386  
 Clarksburg, WV 26302-0386

STATE

**ENVIRONMENTAL PROTECTION**  
**DEPARTMENT OF**  
**OFFICE OF AML&R**  
**601 57TH STREET SE**  
**CHARLESTON, WV**  
**25304**      **304-926-0499**

DATE PRINTED <b>10/01/2008</b>	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
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BID OPENING DATE: **10/21/2008**      BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
	NO. 4 .....					
	NO. 5 .....					
<p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND 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.</p> <p style="text-align: center;"> <i>Trey Hornor</i>            .....            SIGNATURE              Hornor Brothers Engineers            .....            COMPANY              October 20, 2008            .....            DATE         </p>						
REV. 11/96						
<b>NOTICE</b>						
<p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p style="text-align: center;">           DEPARTMENT OF ADMINISTRATION            PURCHASING DIVISION            BUILDING 15            2019 WASHINGTON STREET, EAST            CHARLESTON, WV 25305-0130         </p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Trey Hornor</i>	TELEPHONE 304-624-6445	DATE October 20, 2008
TITLE President	FEIN 55-0197150	ADDRESS CHANGES TO BE NOTED ABOVE

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State of West Virginia  
 Department of Administration  
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# Request for Quotation

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**DEP14385**

PAGE  
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 304-558-2157**

RFQ COPY

TYPE NAME/ADDRESS HERE

Hornor Brothers Engineers  
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 Clarksburg, WV 26302-0386

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10/01/2008				

BID OPENING DATE: **10/21/2008** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: CB-23</p> <p>RFQ. NO.: DEP14385</p> <p>BID OPENING DATE: 10/21/2008</p> <p>BID OPENING TIME: 1:30 PM</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:            304-624-6448</p> <p>-----</p> <p>CONTACT PERSON (PLEASE PRINT CLEARLY):            Trey Hornor, President</p> <p>-----</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Trey Hornor</i>	TELEPHONE 304-624-6445	DATE October 20, 2008
TITLE President	FERN 55-0197150	ADDRESS CHANGES TO BE NOTED ABOVE

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

**SPECIFICATIONS & SCOPE OF SERVICES**  
**RFQ# DEP14385**

**Section A – Scope of Services**

**Background:**

DEP is mandated by the Surface Mining Control and Reclamation Act of 1977, Public Law 95-87, to reclaim lands and water affected by coal mining that impose social and economic costs on residents, impair environmental quality, prevent or damage the beneficial use of land or water resources or endanger the health and safety of the public.

**Scope of Work:**

The scope of work shall include the development of detailed topographical mapping from field survey data, as well as aerial photography, design data surveys, the development of field survey information suitable and adequate for the development of detailed plans and specifications.

I. Specifications for Surveying and Mapping

A. Topographical Survey

- 1) Location of the physical features of the terrain and the various objects and obstructions both natural and man-made on and in the vicinity of the project site as directed in the project Work Directive.
- 2) Benchmarks and horizontal control shall be established outside of the anticipated limits of construction. The minimum requirements for installation of control shall be specified in the project Work Directive.
- 3) Field Surveys for Topographic Mapping – Field surveys will be conducted as needed to establish horizontal and vertical control data for preparation of the topographic map(s). The following specifications and stipulations will apply to field survey.
  - a. Horizontal traverses shall be closed. All angles shall be doubled and checked by comparing computed bearings with observed bearings. The difference between the deflection and angle and half of the double deflection angle shall not exceed 20 seconds. Horizontal direction shall be established from magnetic north.
  - b. A baseline shall be established across or in close proximity to the site with permanent objects or hubs as directed in Item (e) below. Baselines may be established on pre-existing jeep trails, roads or utility rights of way on or in

close proximity to the site. The maximum distance between baseline stations shall be located in such a way that at least two stations can be seen with an ordinary transit. This baseline can be worked in conjunction with the vertical and horizontal control.

- c. All field survey work shall be conducted on the public right of way where possible, however, the DEP shall obtain right of way on private property where needed.
- d. During the field survey, traverse stations shall be marked and referenced so that they can be readily re-established. A minimum of two reference points should be set and each horizontal change in the baseline. Traverse stations shall be marked by steel hubs flush with the ground surface and referenced by guard stakes or natural or identifiable permanent objects at the ground surface. The location and description of all traverse stations shall be accurately recorded in the notes. The markings on the guard stakes shall include the distance to the traverse stations, the line to the traverse station, and the station of the traverse station.
- e. Bench level traverses shall be of such precision that the error of closure (in feet) shall not exceed plus or minus 0.05 times the square root of the length of the traverse (in miles). The locations, description, and elevation of benchmarks shall be accurately recorded in the notes. The datum plane shall be that of the U. S. Coast Geodetic Survey or Geological Survey or West Virginia Coordinates Plan.

#### B. Topographic Mapping Using Aerial Photography

- 1) Aerial Photography – The photographs shall be made with a calibrated precision-type aerial camera in a vertical position. The successful bidder or their sub-contractor shall supply a copy of a current calibration certificate, issued by the National Bureau of Standards (USGS) or other competent testing organization, which is dated within the past twenty-four (24) months upon demand by the DEP. Any commercial aerial film with a fine-grain emulsion may be used. Altitude shall be the height above average ground required to achieve the accuracy listed in these specifications, not to exceed 4,800 feet.

The time for taking the photographs shall be such that the sky is clear of clouds and haze, streams are within their normal banks, deciduous trees and other vegetation are without leaves, and the ground is free from snow cover. The time for taking of photographs shall be further confined to that portion of the day when the sun is at its highest angle.

Contact prints shall be clean and free from chemical or other stains, blemishes, uneven spots, fog, and finger marks and shall be thoroughly washed to remove any chemical materials which would impair their permanency.

The entire project area shall have stereoscopic coverage within the usable distortion-free portion of the field of the lens. The overlap in the line of flight shall be no less than 45 percent or more than 65 percent. Side overlap shall be no less than 25 percent.

At the completion of the work, the following shall be provided the contracting officer:

- a. Two sets of black and white 9" x 9" aerial photographs properly identified by site name and photo index number.
  - b. Three sets of color 9" x 9" aerial photographs (contact prints) properly identified by site name and photo index number without any additional manual markings.
  - c. All negatives of the aerial photograph.
  - d. Copies of cross-sections taken every 300 feet along the baseline to be plotted on cross-section paper and overlaid on cross-sections plotted from the mapping to verify the mapping accuracy.
  - e. Two computer disks containing all survey mapping and data compatible with a computer aided design system in Auto CAD (Version Release 14 and 2007).
- 2) Field Surveys – Field surveys will be conducted as needed to establish horizontal and vertical control data for preparation of the topographic map.
- 3) Topographic Mapping – Topographic drawings shall be on 24" x 36" standard map sheets. Every fifth contour line shall be accentuated with elevations noted. The topographic contour map(s) shall be prepared using stereo methods. The basic map shall be stereo plotted and mechanically transcribed to a scale of 1" = 100' with a contour interval of 2 feet unless otherwise specified by the DEP based on particular needs established due to the site specific circumstances.

The topographic drawings shall have included on them (lower right part of map) the following:

- The name of the project.
- Inserts showing location of all reference points.
- The location of the project (county map).
- Legend.
- Title block for approval signatures.
- Map Scale.

The various views required to be presented on the drawings shall be oriented in the following manner:

- a. If the mapping requires the use of two sheets or more, match lines will be used to relate the sheets together. If the use of more than two sheets is necessary, an additional sheet will be required with a reduced scale enabling the placement of the entire area on one sheet indicating how the sheets relate to each other.
- b. Each topographic sheet shall be oriented, whenever possible so the direction of stream flow is from the left to the right or from the top to the bottom of the sheet. Arrows indicating the direction of stream flow will be included. Spot elevations shall be shown to assist in determination of hilltops, saddles and road intersections. Each sheet shall contain a bar scale and a geodetic or polar north arrow.
- c. Physical Features – All physical features situated on the ground such as vegetation, rivers, ponds, lakes, small streams, rock outcrops, and other unusual features will be located and identified on the topographic map.
- d. Cultural Features – All cultural features such as houses, barns, buildings, commercial businesses, highways, railroads, bridges, pipelines, farm ponds, fences, electric power lines, telephone lines, gas wells, and any other cultural features shall be located and identified on the topographic map. Specific features dealing with mining such as the limits of coal refuse, landslides if determinable, the location of strip mine highwalls and overburden, deep mine openings, both draining and dry and any other mining related feature must be located and identified on the topographic map. This requirement should be accomplished to the best degree possible without an actual detailed survey.
- e. All horizontal and vertical control points – to include permanent or temporary benchmarks, will be located and identified on the map. There shall be a minimum of four vertical points and three horizontal points.
- f. The precision of the topographic map for all areas within the actual project area shall not be less than the following:
  - o Average error shall not exceed  $0.025 \times$  the scale of the map expressed in feet per inch.
  - o Percentage error in scaled areas shall not exceed  $0.05 \times$  scale of the map expressed in feet per inch.
  - o Of points chosen at random, the percentage whose error in elevation exceeds one-half the specified contour interval shall not exceed 10 percent.
  - o All maps shall be drawn to the limits as shown on the mapping outline for the individual areas.

Note: Areas outside the actual project limits are to be as precise as conditions allow but will not be held to these limits.

- g. Symbols and abbreviations shall be in accordance with "Standard Map Symbols" published by the Soil Conservation Service, U. S. Department of Agriculture, January 1965.

## Section B - Contractual Information & Requirements

### I. Statement of Work

The Contractor shall furnish all personnel, facilities, equipment, material, supplies, and services for all of the scope of work required in this contract.

### II. Location of Work

The area of work shall include the entire State of West Virginia. The counties listed below are the coal producing counties and those in parentheses represent where most of the work required in the contract is located.

#### "Northern" counties

1. (Hancock)
2. (Brooke)
3. (Ohio)
4. Marshall
5. Wetzel
6. Tyler
7. (Monongalia)
8. (Preston)
9. (Marion)
10. Doddridge
11. (Harrison)
12. (Taylor)
13. Mineral
14. (Grant)
15. (Tucker)
16. (Barbour)
17. (Lewis)
18. (Braxton)
19. (Upshur)
20. (Webster)
21. Pocahontas
22. (Randolph)
23. Pendleton
24. (Gilmer)
25. Calhoun

### III. Ordering Procedure

- A. This is an indefinite quantity contract for the services specified in the Statement of Work and for the period set forth herein. Delivery or performance shall be made in accordance with the provisions of this contract.
- B. Work will be ordered by the DEP (Project Manager) by issuance of a Work Directive, which shall specify the location of the project site, the specified problem, the work to be performed and the time frame during which the work must be completed. The Contractor will then be responsible for contacting DEP to arrange an on-site meeting. Upon completion of a field reconnaissance with a DEP representative, the Contractor will submit a cost proposal for the work requested, signed by a principal of the firm. The individual project cost proposal which contains the quantity estimates shall be in accordance with the unit prices provided in the response to this RFQ.

### IV. Delivery

- A. The Offeror shall prepare, submit and deliver all original survey notes, mapping and additional drawings, etc. or calculations as may be requested by the specific Work Directive within the time frame established for the project. The submission of all preliminary documents or required revisions must also be accomplished within said time frame. Additional time will be given for completion of any revisions and to provide time for billings. Such time to be defined as the performance period. If these time frames are not met, the DEP may refrain from issuing further Work Directives and if a Contractor persists in being late with submittals, the DEP may refuse to renew the Contractor's contract.
- B. The DEP will be responsible for obtaining any necessary rights of entry for purposes of performing field surveys to provide ground control for topographic mapping from aerial photography. The majority of this work should be done in public access areas such as highway right of way, etc. Additionally, any ground surveys will require the Contractor to identify to the DEP any areas requiring access so that the DEP may obtain Right of Entry for those areas.
- C. The work and services to be performed under this contract shall be subject to continuous monitoring and inspection by the State's authorized representatives. Such inspection will, among other things, ensure compliance. Final inspection and acceptance will be made by the DEP (Project Manager) or authorized representative(s).
- D. In accomplishing services to fulfill the requirements of Work Directives, neither the Contractor nor his Subcontractor shall create any adverse environmental effects, and shall be responsible for compliance with all applicable local, state and federal environmental and occupational health and safety laws and regulations pertinent to the work.



- E. Any Contractor shall be ineligible to bid on any aspect of the construction phase of a project if it prepared any part or aided in the preparation of any part of the contract documents for construction.
- F. DEP may retain ten percent (10%) of the Offeror's invoices until such time as the Assistant Director is satisfied that all of the conditions of the contract have been met. The Offeror must be responsible for taking any and all such measures as are necessary to correct any defect(s) arising out of the contract which are proven to be as a result of error(s) in the mapping. Such corrective action(s) shall be performed to the satisfaction of the Assistant Director.

#### V. Cost and Payments

- A. Payment to the contractor will be made on the basis of the items and unit prices outlined in the Purchase Order.
- B. The Offeror shall invoice after the completion of work specified in the Work Directive and after submission of all required work when the performance period is less than thirty (30) days. Invoices may be submitted monthly when the performance period exceeds 30 days. The State may retain 10 percent of each invoice to guarantee that all of the conditions of the contract have been met. This retainage may be held for a period of six (6) months and shall run from the date that construction on a project commences. However, final payment (except for any retainage which may be held) will only be made after all work and reports specified in a Work Directive and this contract are delivered and accepted by the State. All invoices shall show labor, travel, other expenses incurred during the billing period and the work yet to be accomplished. Invoices showing costs not clearly identifiable will not be paid. No payment(s) will be authorized for any work incurred as a result of any error on the part of the Contractor.

#### Section C - Qualification Requirements & Evaluation Factors

##### I. Offeror Qualification Requirements:

The Offeror shall demonstrate the capability of providing topographical, design data and construction surveys in accordance with U. S. National Map Standards. Minimum experience is two (2) years. To the extent possible the Offeror will utilize available aerial photography, aerial topographic maps or enlarged U. S. G. S. topographic maps and the information contained thereon, in lieu of developing maps from field surveys. All survey work described below shall be performed under the direction of a Licensed Land Surveyor, licensed or registered in the State of West Virginia, who will provide certified maps and/or drawings as directed in the specific project Work Directive.

During the performance of this contract, the Contractor agrees to follow and obey all Federal and State Laws and Regulations, etc.

The Offeror must meet the requirements listed below in order to be considered qualified to perform the work designated by this RFQ. Successful Offerors should have the following professional capabilities or staff available at the time of the bid:

- o Licensed Land Surveyor;
- o Competent Field Staff and Survey Crew;
- o Professional Drafting Capabilities;
- o Adequate Computer Aided Design Capabilities (AutoCAD Version Release 14 & 2007 minimum)

Vendors must submit the following at the time of bid:

1. Names of individuals performing work including registration/licensing numbers.
2. List of similar projects completed by your firm (include past five (5)).
3. List of similar projects currently working on.
4. Name of Project Manager anticipated for this project.
5. Number of years your company has performed this type of work.

II. The Contractor will be required to have knowledge or experience in the following areas:

A. Development of Topographic Mapping from Field Survey as well as from Aerial Photographs; the use of Subcontractors will be permitted under this contract for aerial photography work.

B. Boundary and Property Surveys.

III. All work prepared under this contract must be performed under the direction and reviewed by a Licensed Land Surveyor and his or her stamp and signature must be affixed to the cover sheet of all contract documents.

IV. On certain projects the Contractor shall obtain additional umbrella insurance liability coverage for no less than \$1,000,000.00 for bodily injury and property damage for each occurrence, and not less than \$1,000,000.00 aggregate. This coverage will be over and above the standard insurance coverage required on all projects, which is \$1,000,000.00 for bodily injury and property damage for each occurrence and not less than \$1,000,000.00 aggregate. Successful bidders will be required to provide a Certificate of Insurance or some form of certified proof that this insurance can be obtained on demand prior to the issuance of this contract. All employees of the Contractor and of Subcontractors engaged in the work of this contract shall be covered by West Virginia Workers' Compensation Insurance. Certificates shall be provided to DEP by the Contractor and Subcontractors showing compliance with the Workers' Compensation Laws of West Virginia.

Rev. 09/08

State of West Virginia  
**VENDOR PREFERENCE CERTIFICATE**

Certification and application\* is hereby made for Preference in accordance with *West Virginia Code*, §5A-3-37. (Does not apply to construction contracts). *West Virginia Code*, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the *West Virginia Code*. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

1. **Application is made for 2.5% resident vendor preference for the reason checked:**  
 Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,  
 Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,  
 Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,
2. **Application is made for 2.5% resident vendor preference for the reason checked:**  
 Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3. **Application is made for 2.5% resident vendor preference for the reason checked:**  
 Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
4. **Application is made for 5% resident vendor preference for the reason checked:**  
 Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5. **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**  
 Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6. **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**  
 Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (*West Virginia Code*, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: Hornor Brothers Engineers Signed: Trey Hornor Trey Hornor

Date: October 20, 2008 Title: President

\*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

**RFQ# DEP14385****BID SCHEDULE**

Company Name: Hornor Brothers Engineers  
 Address: P.O. Box 386  
Clarksburg, WV 26302-0386

The DEP reserves the right to request additional information and supporting documentation regarding unit prices when the unit price appears to be unreasonable.

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
1.0	60	2-Man Surveying Crew (per hour)	\$ 79.00	\$ 4740.00
2.0	20	3-Man Surveying Crew (per hour)	\$107.00	\$ 2140.00
3.0	50	Aerial Photograph Production (per sheet)	\$120.00	\$ 6000.00
4.0		Topographic Mapping from Aerial Photography (per acre)		
		(List only one rate for each category)		
	25	0-50 Acres	\$ 60.00	\$ 1500.00
	75	51-100 Acres	\$ 18.00	\$ 1350.00
	101	101 and Up Acres	\$ 15.00	\$ 1515.00
5.0		Professional Rates (Listed Disciplines Only) (per hour)		
	80	Licensed Land Surveyor	\$ 53.00	\$ 4240.00
	30	CAD Operator	\$ 50.00	\$ 1500.00
	30	Draftsperson	\$ 50.00	\$ 1500.00
	8	Secretary	N/C	\$ 0
	8	Word Processor	N/C	\$ 0
6.0		Travel and Per Diem		
	7	Per Diem (Rate/Person/Day)	\$ 30.00	\$ 210.00
		<b>TOTAL</b>		<b>\$ 24695.00</b>

\*Quantities listed for bid evaluation purposes only.

STATE OF WEST VIRGINIA  
Purchasing Division

## PURCHASING AFFIDAVIT

### VENDOR OWING A DEBT TO THE STATE:

*West Virginia Code §5A-3-10a* provides that: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

### PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

*West Virginia Code §21-1D-5* provides that: Any solicitation for a public improvement construction contract shall require each vendor that submits a bid for the work to submit at the same time an affidavit that the vendor has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code. A public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the West Virginia Code may take place before their work on the public improvement is begun.

### ANTITRUST:

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

### LICENSING:

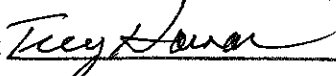
Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

### CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit [www.state.wv.us/admin/purchase/privacy](http://www.state.wv.us/admin/purchase/privacy) for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and is in compliance with the requirements as stated.

Vendor's Name: Hornor Brothers Engineers

Authorized Signature:  President Date: October 20, 2008

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**Hornor Brothers Engineers  
2008 Company Brochure**

# Hornor

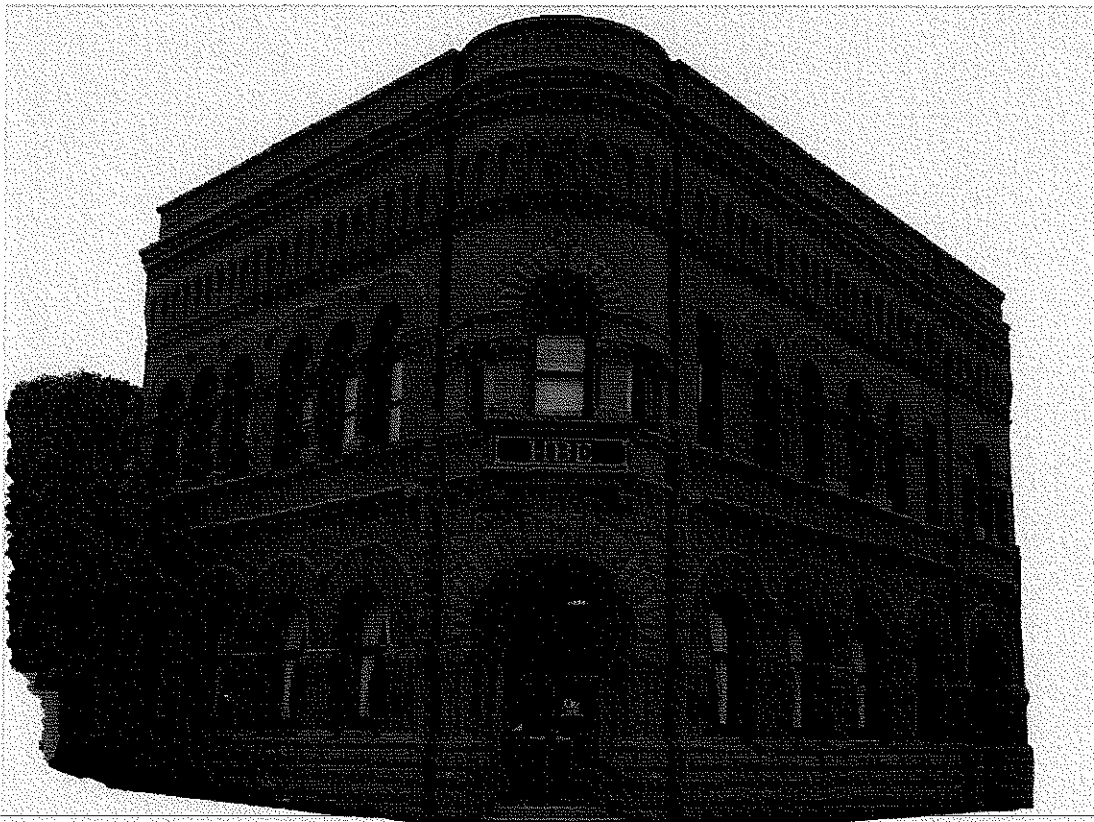
*Since  
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Civil, Environmental and Consulting Engineering

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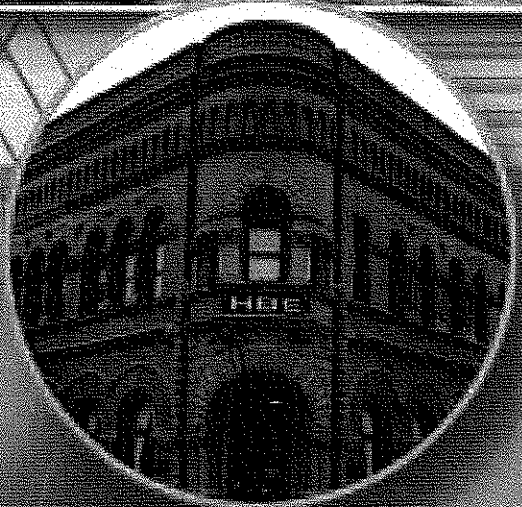
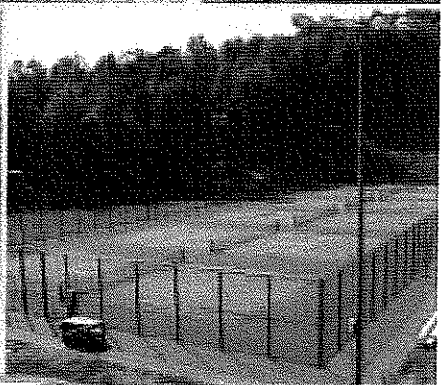
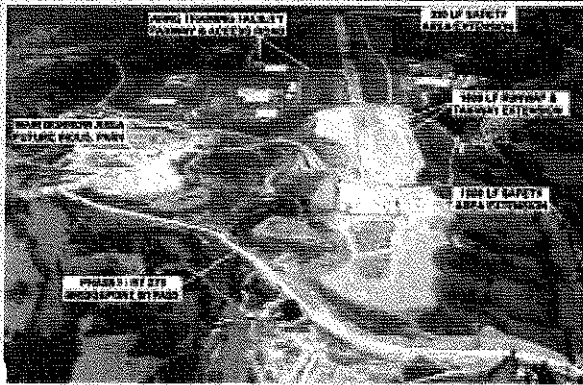


**PROPOSAL**  
**Environment Protection Department**  
**of Office of AML&R**  
**RFQ-DEP 14385**

# Civil Engineering Solutions Powered By 100<sup>+</sup> Years of Experience

Family owned and operated since 1902, Hornor Brothers Engineers is the oldest engineering firm in West Virginia. We combine the comprehensive expertise of five Registered Professional Engineers and a dependable support staff with a thorough knowledge of north central West Virginia to provide our customers with value driven results.

100 years of experience is powerful ... put it to work for you.



- Specializing In:**
- Airport Facilities
  - Civil Engineering
  - Land Surveying and Mapping
  - Residential and Industrial Site Development
  - Roadways
  - Water and Sewer Systems
  - Drainage Systems
  - Project Management

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# **HORNOR BROTHERS ENGINEERS**

**140 South Third Street  
P.O. Box 386  
Clarksburg, West Virginia 26302**

Phone: 304/624-6445  
Fax: 304/624-6448  
Website: [www.HornorBrosEng.com](http://www.HornorBrosEng.com)  
EMAIL: [Eng@HBE1902.com](mailto:Eng@HBE1902.com)

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**Professional Engineering Services Since 1902**

09/02/08

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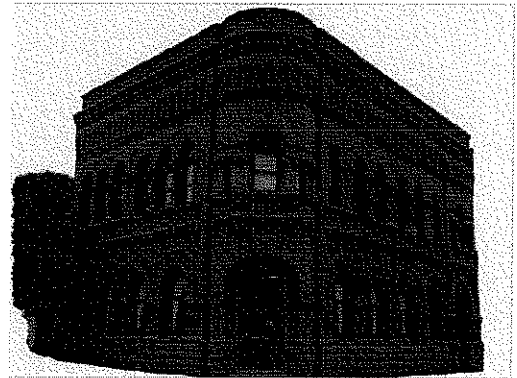
# Hornor

Since  
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## COMPANY PROFILE

### INTRODUCTION

The consulting firm of Hornor Brothers Engineers, located in Clarksburg, West Virginia, is a family owned and operated organization which was founded in 1902. Its principals are Paul Allen (Trey) Hornor III, Paul Allen Hornor, Jr. and John W. Hornor. For over 100 years the firm has practiced civil engineering as it relates to public works and the environment. Throughout its history, Hornor Brothers Engineers (HBE) has combined the expertise of an experienced, professional engineering staff with a thorough knowledge of north central West Virginia to provide our customers with value driven results. We remain flexible, yet qualified to meet the needs of our clients in an ever-changing world, and continue to uphold our high standards of service in providing effective engineering solutions.

Through professional and personal interaction, Hornor Brothers Engineers' staff is available to identify project requirements, coordinate timely reviews and manage work tasks and other issues that need to be addressed, so that quality service on time and within budget can be completed to the client's satisfaction.

### OVERVIEW OF ENGINEERING AND RELATED SERVICES

The firm specializes in land surveying, site development planning, the design and construction management of water and wastewater projects, airport development and other municipal and public works. We have considerable experience in working with most state and federal funding and regulatory agencies. The following is a complete list of the engineering and related services for which Hornor Brothers Engineers is qualified and capable.

Airport Facilities	Funding Applications	Municipal Engineering
Civil Engineering	General Consulting	Project Management
Coal-Related Consulting	Geographic Information Systems (GIS)	Pumping Facilities
Construction Inspection Services	Highways and Roads	Site Evaluations
Land Surveying & Mapping	Industrial Site Development Facilities	Subdivision Development
Drainage Systems	Infrastructure Investigations and Reports	Wastewater Collection Systems
Economic Feasibility Studies	Land Surveying and Mapping	Water Distribution and Storage

## LAND SURVEYING

Land surveying plays a major role in Hornor Brothers Engineers' scope of business. HBE has performed survey work for over 10,000 individual property owners and hundreds of commercial and industrial clients. These services include contour and feature location maps, lot and farm surveys, subdivisions, gas well locations, to name a few. These surveying capabilities compliment the firm's other areas of business, such as project design, and enable us to handle a maximum amount of project responsibility internally. *The service areas for all the firm's water system expansion projects are surveyed on the ground to produce highly detailed construction mapping.* HBE utilizes a handheld GPS unit, total station instruments with data collector and CADD capabilities, which help provide for timely, sharp, finished plats and drawings.

## MUNICIPAL PROJECTS

Hornor Brothers Engineers has performed a wide range of municipal services including the design and construction phase services for small dams and reservoirs, tennis courts, city streets, conventional sidewalks, drainage systems, and all the project components associated with downtown streetscape improvements. The firm has also prepared multiple parking lot project designs, for United Hospital Center, Fairmont State College, and the City of Clarksburg among others.

Our history of successive projects with Fairmont State College, the United Hospital Center, and the cities of Clarksburg and Bridgeport and others is a reflection of our quality of performance in this area of development. See the following representative photographs and descriptions for several of the firm's various municipal projects.

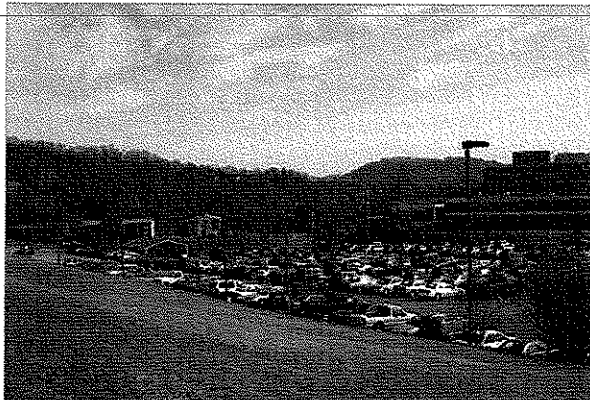
**FAIRMONT STATE COLLEGE  
STUDENT PARKING EXPANSION PROJECT**  
Project Cost: \$394,000; Completed: 1997



**FAIRMONT STATE COLLEGE  
NEW TENNIS COURTS PROJECT**  
Project Cost: \$553,000; Completed: 1999



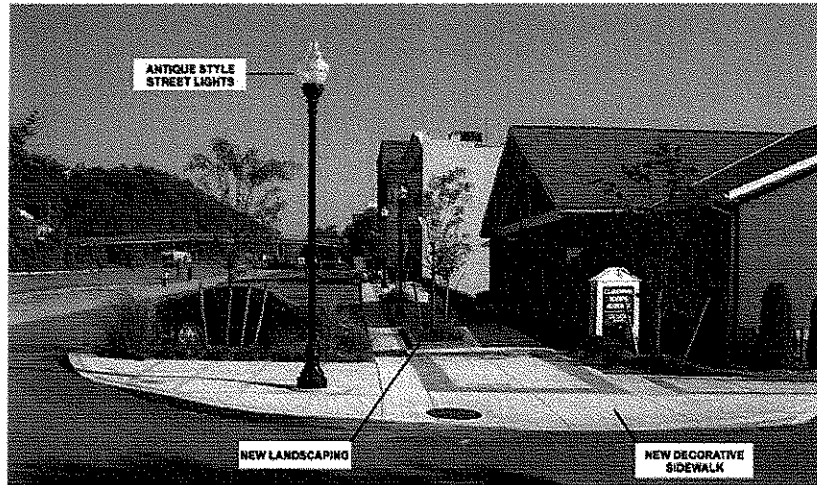
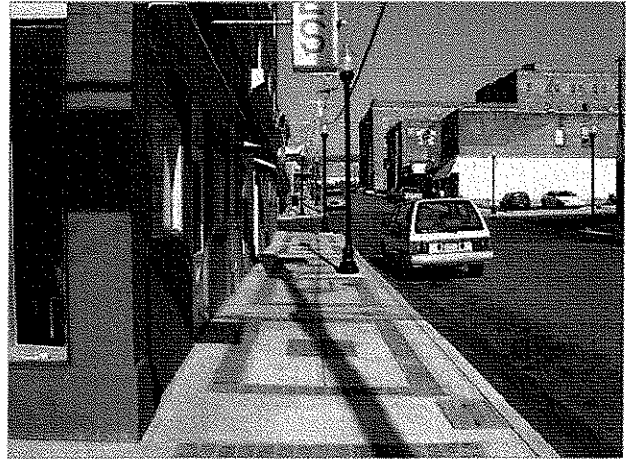
**UNITED HOSPITAL CENTER EMPLOYEE PARKING  
EXPANSION PROJECTS (Phases 1&2)**  
251 New Spaces; Total Construction Cost: \$718,000  
Completed 1996 & 1999



**UNITED HOSPITAL CENTER  
RETAINING WALL**  
Completed 2000



**CITY OF CLARKSBURG – GLEN ELK STREETScape PROJECT**  
Project Cost = \$500,000; Completed: 2001



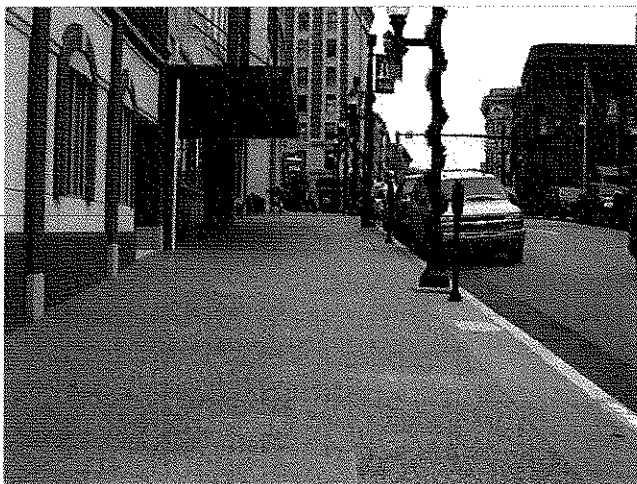
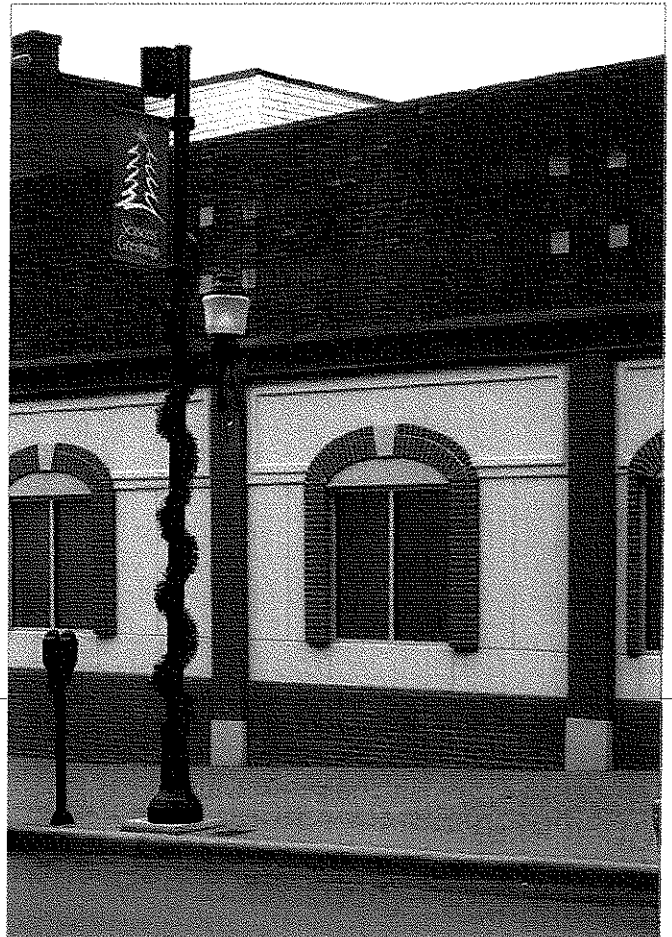
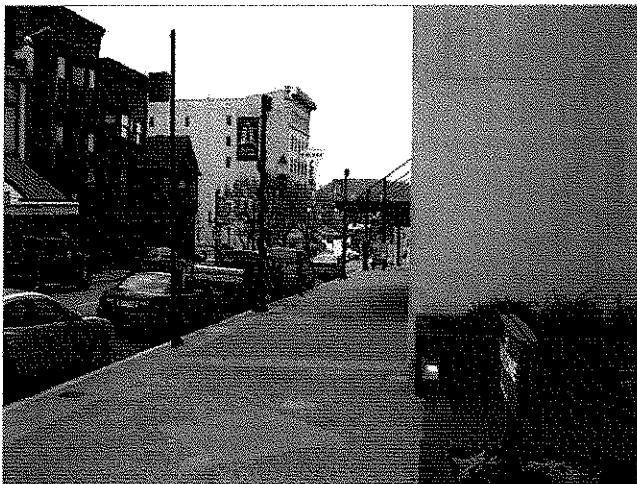
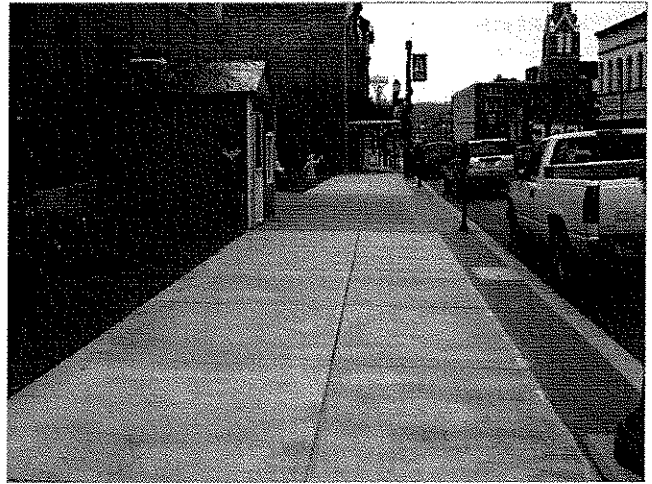
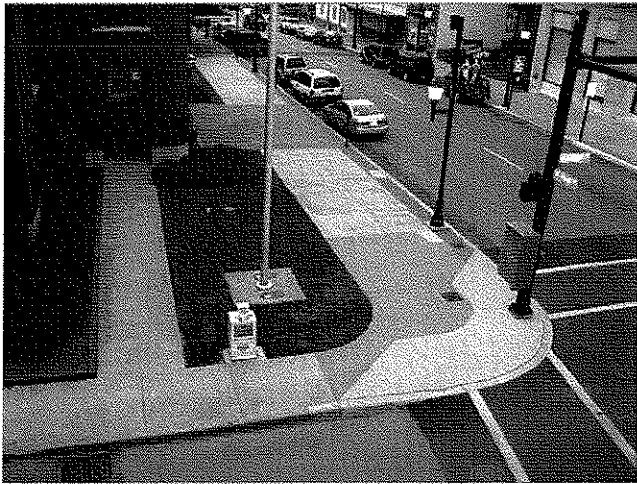
**CITY OF BRIDGEPORT  
MAIN STREET REVITALIZATION PROJECT  
(PHASE II)**  
Project Cost = \$250,000; Completed 2003



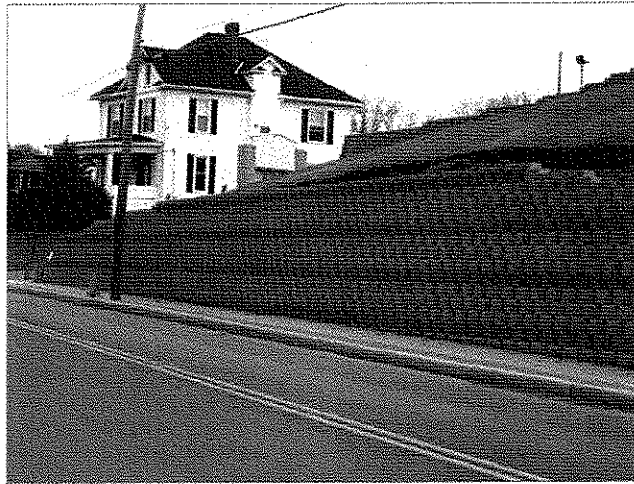
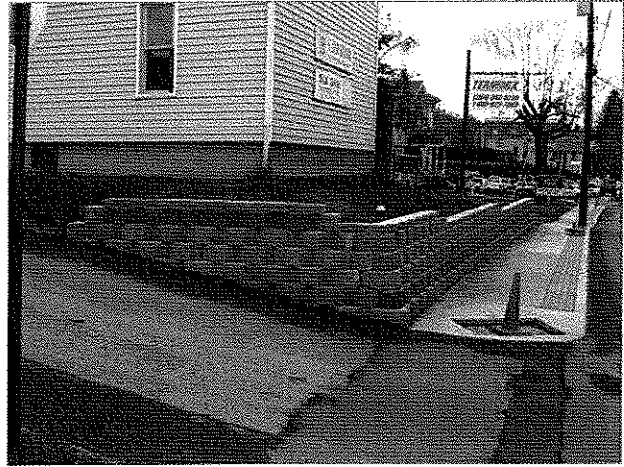
**CITY OF WESTON  
BANK STREET IMPROVEMENT PROJECT**  
Project Cost = \$128,000; Completed 2003



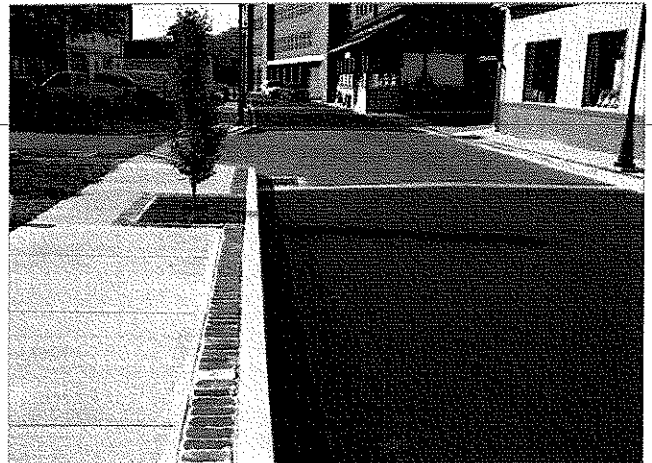
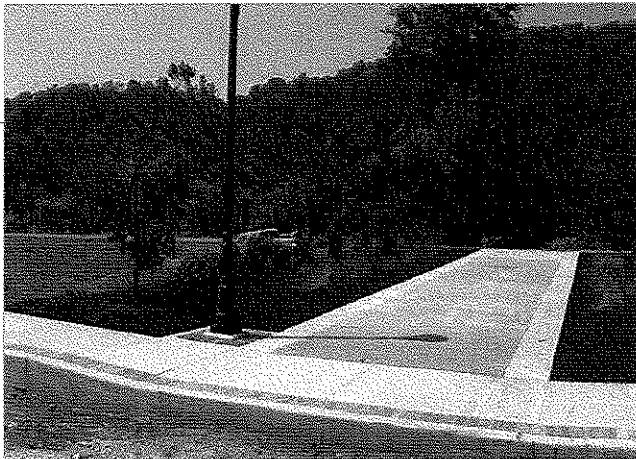
**CITY OF CLARKSBURG  
MAIN STREET REVITALIZATION PROJECT PHASE 2  
Project Cost = \$450,000; Completed 2005**



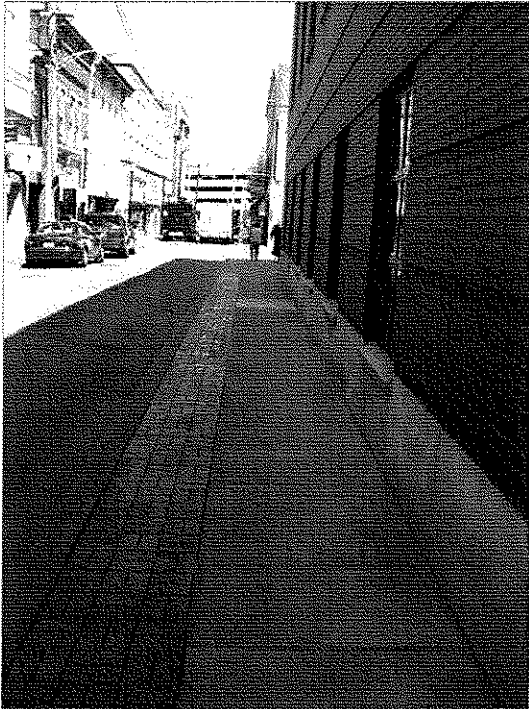
**CITY OF BRIDGEPORT  
MAIN STREET REVITALIZATION PROJECT (PHASE III)**  
Project Cost = \$326,000; Completed 2005



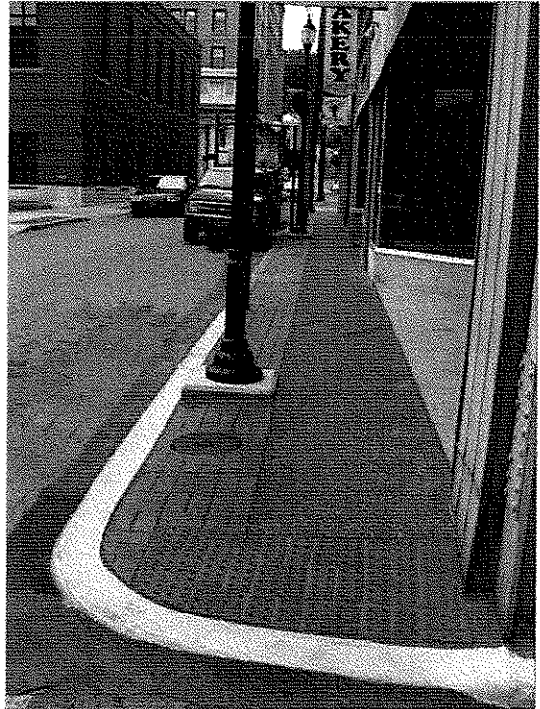
**CITY OF MORGANTOWN  
CLAY STREET STREETScape PROJECT**  
Project Cost = \$693,000; Completed 2005



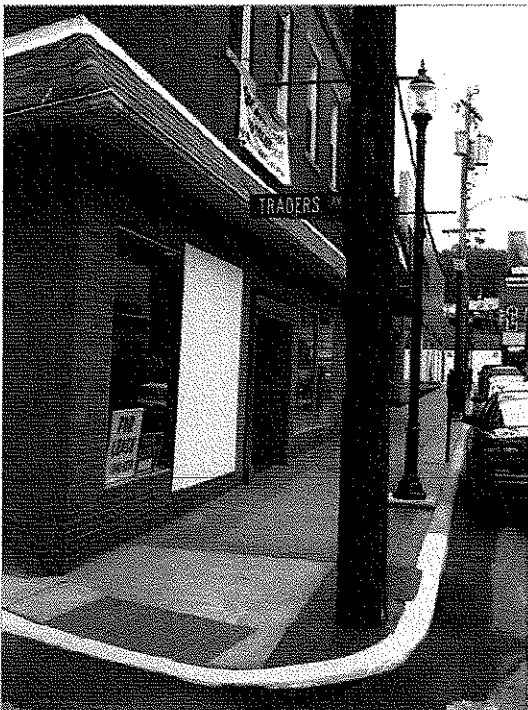
**CITY OF CLARKSBURG STREETScape IMPROVEMENT PROJECT  
MAIN STREET – PHASE 3  
Project Cost = \$331,000; Completed: 2006**



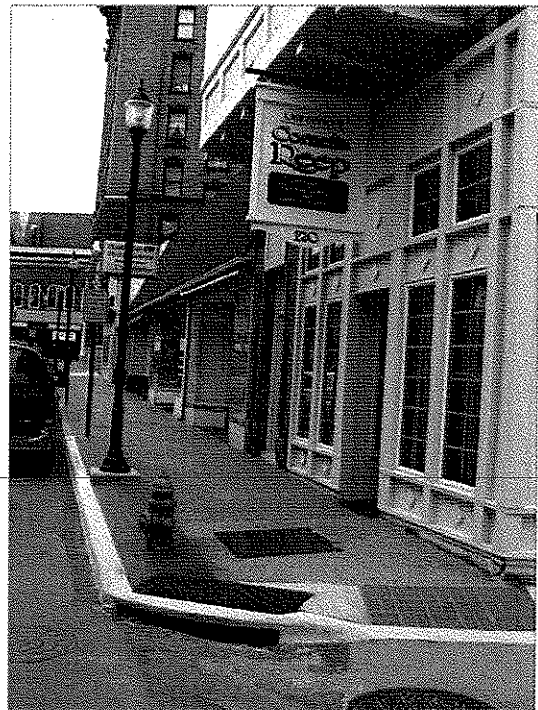
**East Side of South Third Street**



**West Side of South Third Street**



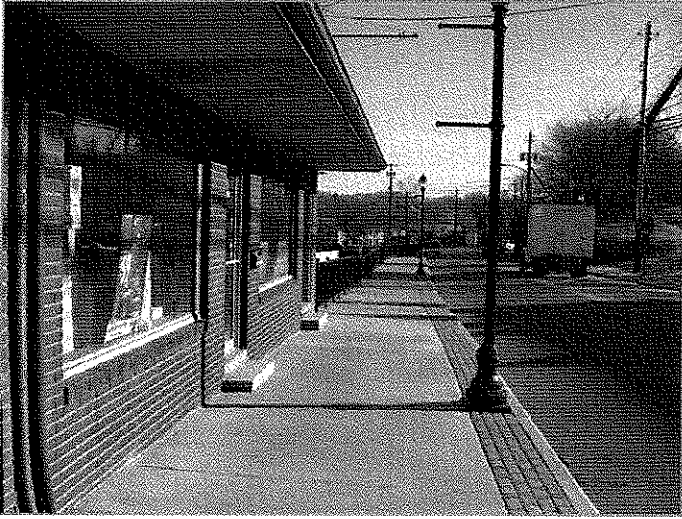
**East Side of South Fourth Street**



**West Side of South Fourth Street**



**CITY OF BRIDGEPORT  
MAIN STREET REVITALIZATION PROJECT (PHASE IV)  
Project Cost = \$290,000; Completed 2006**



**Sidewalk Along North Side of Main Street**



**Safety Rail Along North Side of Main Street**

**SITE DEVELOPMENT**

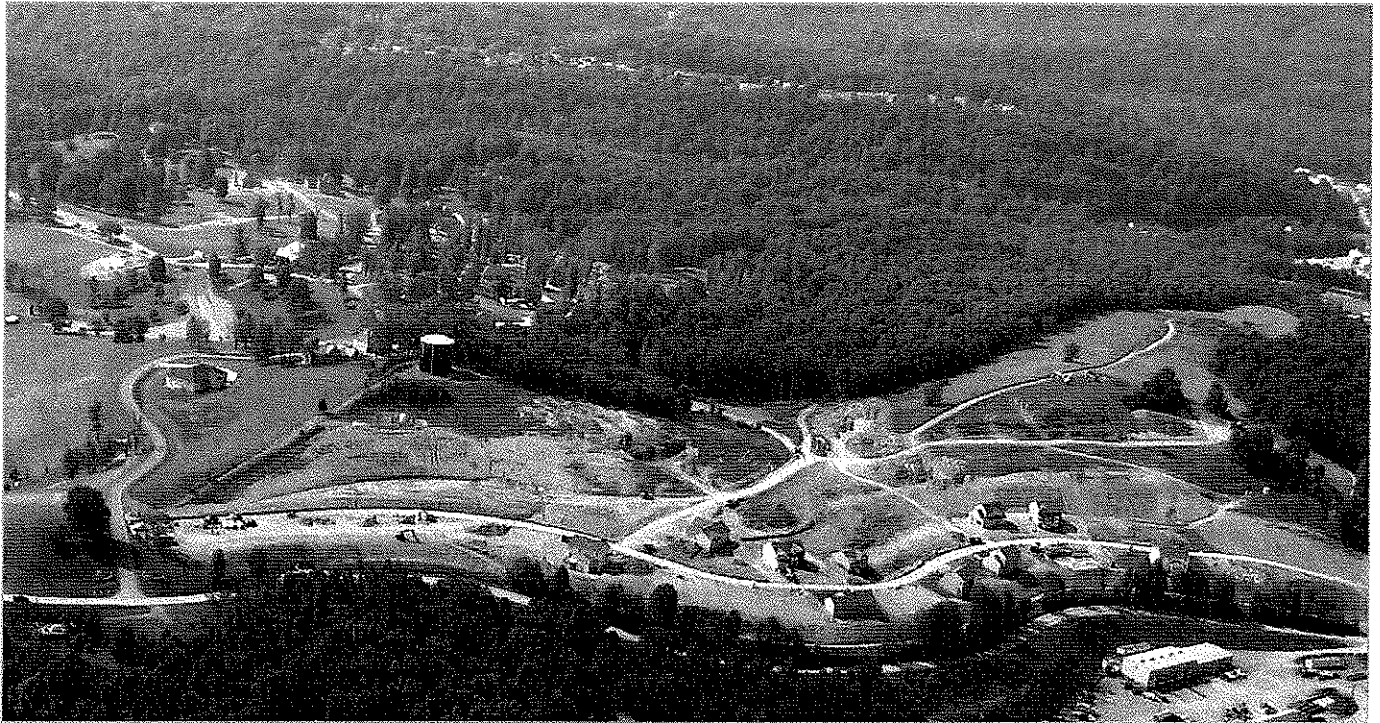
Hornor Brothers Engineers also provides complete engineering services for the development of industrial parks and residential subdivisions. Our services include staking out the lots and designing the earth moving, streets, sidewalks, drainage systems, and water and sewer systems for the industrial or residential client. Hornor Brothers Engineers has been involved in the development of numerous industrial parks and subdivisions around north-central West Virginia. Sometimes this requires the complete turnkey services described above, and in other cases just the layout of lots or the design of water and wastewater systems. A listing of recent and/or larger, recognizable site development projects includes the following:

Subdivision Projects	County	Industrial/Commercial Site Projects	County
Crystal Ridge	Harrison	UHC New Hospital Site	Harrison
Heritage Farms	Harrison	Fed Ex Site	Harrison
Deerbrook	Barbour	Harrison-Marion Regional Airport	Harrison
Bennett Manor	Harrison	Benedum Airport Industrial Park	Harrison
Auburn Village	Harrison	Midway Industrial Park	Harrison
Heavenly Trails	Marion	Lewis County Industrial Park	Lewis
Timber Ridge	Marion		

See the following representative photographs and descriptions for several of the firm’s various site development projects.



**FED EX GROUND DISTRIBUTION FACILITY  
HARRISON COUNTY, WEST VIRGINIA  
COMPLETED DECEMBER 2006**



**CRYSTAL RIDGE RESIDENTIAL DEVELOPMENT  
BRIDGEPORT, WV**



**HERITAGE FARMS RESIDENTIAL DEVELOPMENT  
BRIDGEPORT, WV**

**UHC REPLACEMENT HOSPITAL SITE DEVELOPMENT  
BRIDGEPORT, WEST VIRGINIA  
2006 - 2008**



## HARRISON – MARION REGIONAL AIRPORT - BRIDGEPORT, WEST VIRGINIA

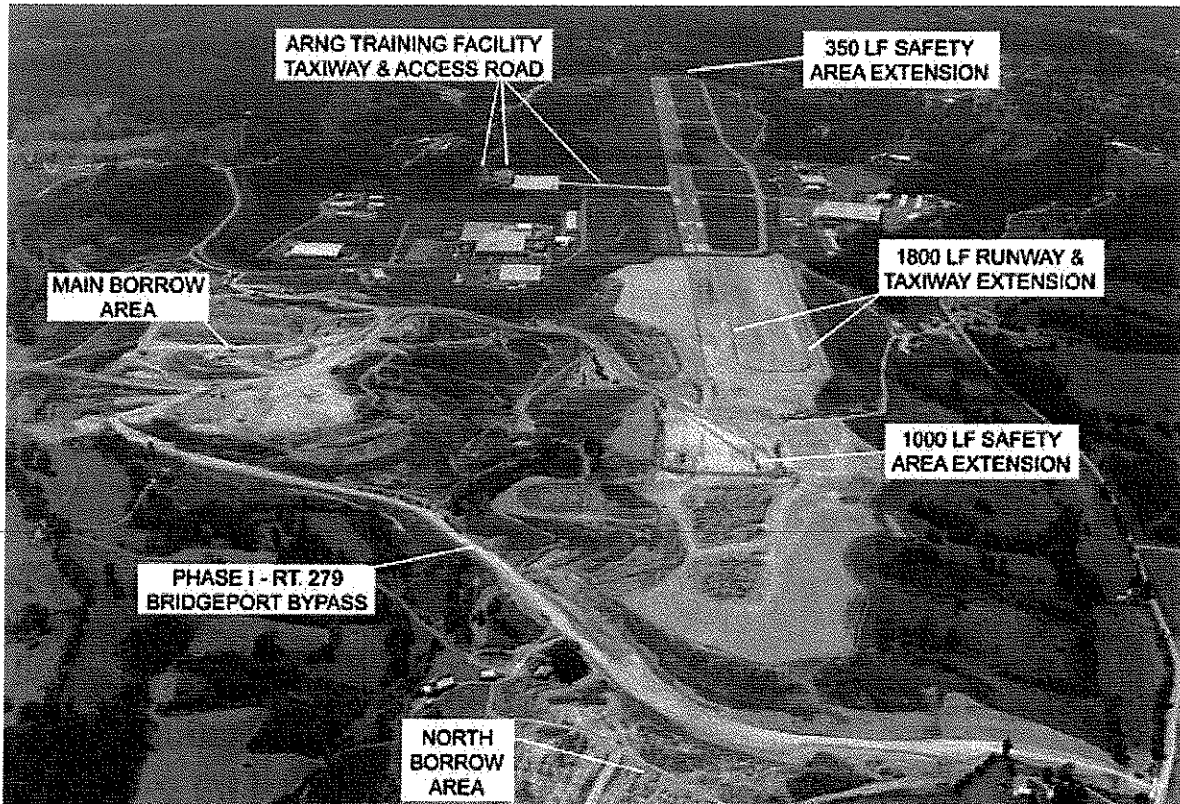
Hornor Brothers Engineers has a rich and long history of over 65 years with the Harrison-Marion Regional Airport, which began as the Harrison County Airport in 1937. As the airport changed over the years, Hornor Brothers Engineers was the firm predominantly responsible for the improvements and additions to the facility. The years of 1960-1975 were the main development years for the airport. During this period of time there were nine major construction projects. From 1977 to 1995 there were 15 smaller projects, all funded primarily by the Federal Aviation Administration.

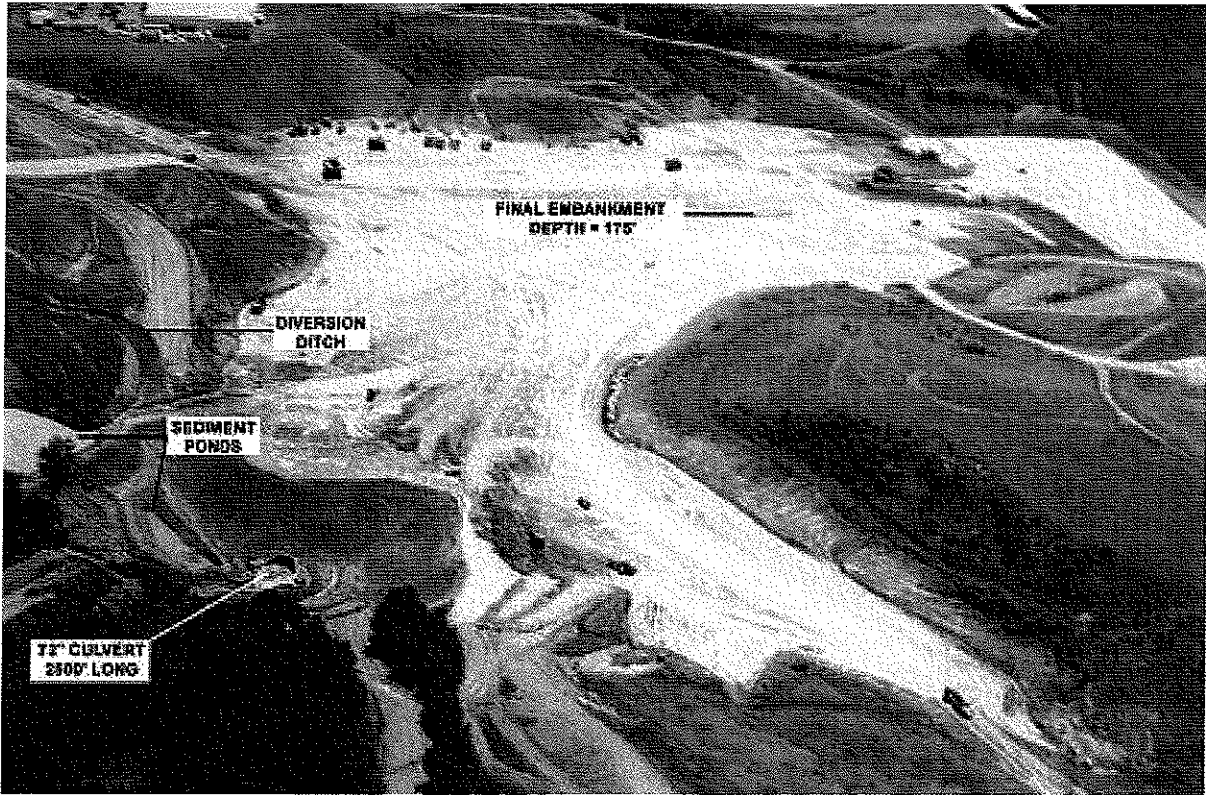
In 1993, Benedum Airport Authority embarked on a large and ambitious project to extend its main runway and parallel taxiway. Major design components of the project included a 10,000,000 cubic yard excavation and embankment; a 2,500 foot long, 72-inch structural steel culvert; runway and taxiway pavement and lighting; repaving the existing runway; fencing; utility line relocations; storm drainage system and a new instrument landing system.

The Benedum Airport Authority also hired Hornor Brothers Engineers to provide engineering design, inspection and construction management services for the construction of a 4,400 foot long (0.833 miles) access highway. This section of highway is known as Route 279, North Bridgeport Bypass.

Also, the West Virginia Army National Guard (ARNG) hired Hornor Brothers Engineers to provide all phases of engineering design and inspection for the construction of the Eastern ARNG Aviation Training Site Fixed Wing Detachment at Benedum Airport. This facility consisted of a 37,200 sq. ft. training facility hangar with classroom, administrative and aircraft maintenance space, flexible and rigid paving for aircraft parking, new taxiway access to the main runway and the existing Tee Hangars, all supporting utilities, drainage structures and new access highway from U.S. Route 50. Following are pictures of the above referenced projects.

### BENEDUM AIRPORT VARIOUS PROJECTS

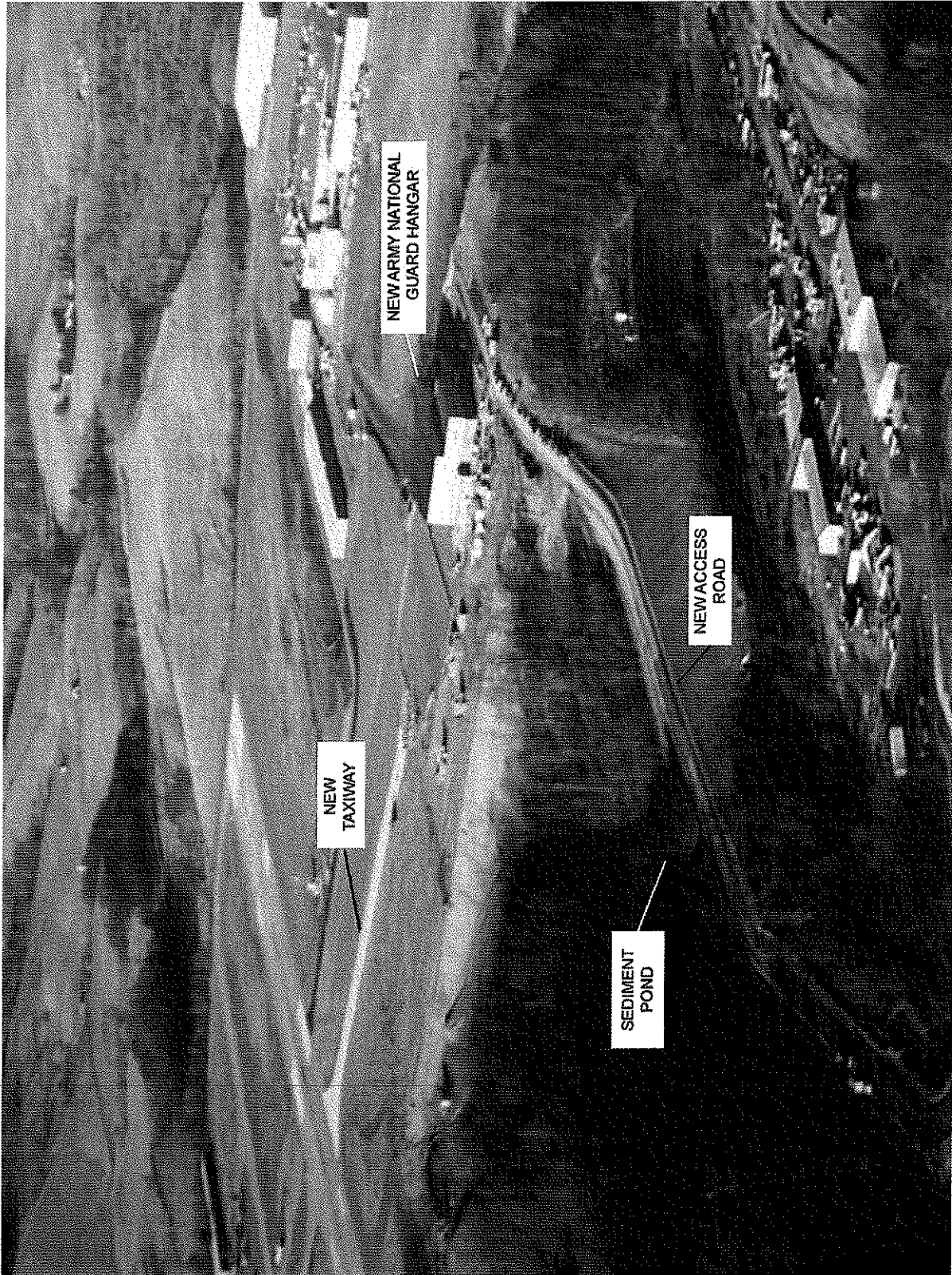




**BENEDUM AIRPORT RUNWAY EXTENSION PROJECT - 1999**



**ROUTE 279, NORTH BRIDGEPORT BYPASS - COMPLETED IN 2000**



**EASTERN ARNG FIXED WING TRAINING SITE AT BENEDUM AIRPORT  
PHOTO TAKEN: 1995; COMPLETED: 1996**

## **WATER PROJECTS**

In the last 40 years, water distribution and design has comprised a large portion of Hornor Brothers Engineer's business. Water projects have ranged in size from small line extensions on existing systems, to the development of complete water facilities where there was no central system. HBE specializes in the redesign and rehabilitation of aging, undersized systems that have been unable to keep up with subsequent growth.

The firm offers services in the area of water resources that include expertise in feasibility studies, funding applications, design, construction inspection, project management and start-up. See pictures of various water facilities and construction activity associated with some of our larger projects on the following pages.

A comprehensive list of the larger projects whose design and construction inspection Hornor Brothers Engineers has completed in more recent years includes the following:

<b>CLIENT/PROJECT</b>	<b>YEAR COMPLETED</b>	<b>TOTAL COST</b>
Huttonsville Public Service District, Randolph County	2006	\$ 6,500,000
Bingamon Public Service District, Harrison County	2006	\$ 1,300,000
Century-Volga Public Service District, Barbour County (3 <sup>rd</sup> Project)	2005	\$ 1,900,000
Adrian Public Service District, Upshur County (4 <sup>th</sup> Project)	2004	\$ 3,485,000
Town of West Union, Doddridge County	2003	\$ 810,000
Mt. Hope Water Association, Upshur County (5 <sup>th</sup> Project)	2002	\$ 3,500,000
Montana Water Association, Marion County	2002	\$ 930,000
Adrian Public Service District, Upshur County (3 <sup>rd</sup> Project)	2001	\$ 3,100,000
Gilmer County Public Service District, Gilmer County (3 <sup>rd</sup> Project)	2000	\$ 1,300,000
Wetzel County Public Service District No. 1, Wetzel County (2 <sup>nd</sup> Project)	1999	\$ 2,700,000
Century-Volga Public Service District, Barbour County (2 <sup>nd</sup> Project)	1999	\$ 2,800,000
Adrian Public Service District, Upshur County (2 <sup>nd</sup> Project)	1997	\$ 2,800,000
Gilmer County Public Service District, Gilmer County (2 <sup>nd</sup> Project)	1995	\$ 1,812,000
Haymond Public Service District, Taylor County (2 <sup>nd</sup> Project)	1994	\$ 175,000
Clarksburg Water Board, Harrison County	1993	\$ 4,400,000
Wetzel County Public Service District No. 1, Wetzel County	1993	\$ 736,000
Tri-County Water Association, Harrison, Marion and Taylor Counties	1990	\$ 1,588,000



Current projects in various stages of design or construction and their projected completion dates include the following:

CLIENT/PROJECT	PROJECTED COMPLETION DATE	TOTAL COST
Town of West Union, Doddridge County High School, Doddridge County	2007	\$1,360,000
Wetzel County Public Service District No. 1, Wetzel County (3 <sup>rd</sup> Project)	2007	\$3,825,000
Mt. Hope Water Association, Upshur County (6 <sup>th</sup> Project)	2008	\$ 175,000
Whitmer Water Association, Randolph County	2008	\$3,428,000
Adrian Public Service District, Upshur County (5 <sup>th</sup> Project)	2008	\$6,516,000
Town of West Union, Greenwood Extension, Doddridge County	2008	\$1,127,000
Mannington Public Service District, Marion County	2009	\$5,056,000
Century-Volga Public Service District, Barbour County (4 <sup>th</sup> Project)	2009	\$2,300,000

### ADRIAN PUBLIC SERVICE DISTRICT, UPSHUR COUNTY

Part of Phase III Water Project

Total Project Cost = \$3,100,000; Completed 2001



50 GPM Wilsons town Booster Station



43,000 Gallon Salem Ridge Water Storage Tank

The Adrian Public Service District has been a valued client of Hornor Brothers Engineers for over 25 years. As part of a master plan, the original system was designed with adequate capacity to serve the above Phase III project. Since the completion of Phase III we have also finalized a fourth phase of Adrian's waterline system which consisted of approximately 130,000 feet of 8", 6", 4" and 2" waterlines, two new water storage tanks and booster pump stations, and we are currently in design and awaiting funding on the Phase V project.

**CENTURY-VOLGA PUBLIC SERVICE DISTRICT, BARBOUR COUNTY**  
Total Project Cost = \$2,800,000; Completed: 1999



150 GPM Water Booster Station Located in Audra State Park  
Phase II



100,000 Gallon Storage Tank on Talbott Road  
Near U.S. Route 33 (Phase II)

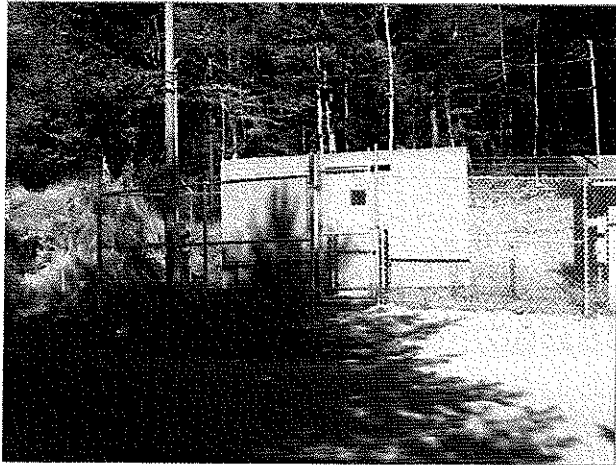
Century-Volga Public Service, another well-established client, has also utilized the expertise and experience of Hornor Brothers Engineers over the past 20 years. The pictures on this page illustrate a booster station and water storage tank built during the Phase II project in 1999.

Since then the construction of Phase III, a \$1,900,000 project consisting of approximately 76,000 feet of 6", 4" and 2" waterlines has been completed and placed into operation, serving approximately 138 customers.

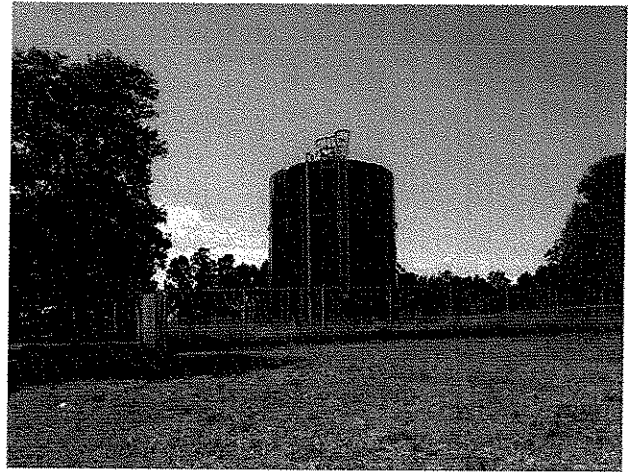
**MT. HOPE WATER ASSOCIATION, UPSHUR COUNTY**

Total Project Cost = \$3,500,000; Completed 2002

Part of Phase V Water Project



150 GPM Little Sand Run Booster Station

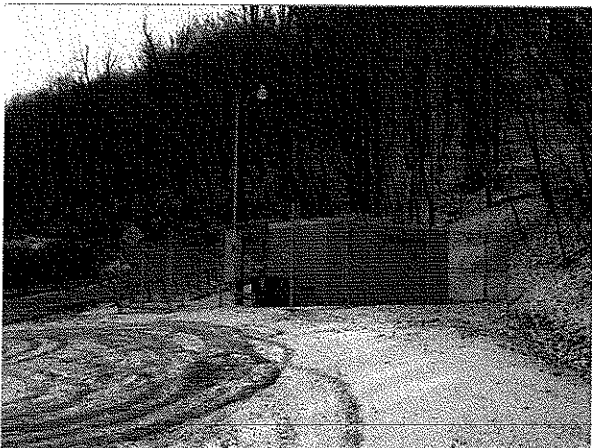


105,000 Gallon Water Storage Tank on Tallmansville Road Near Mt. Carmel Church Road

The Mt. Hope Water Association has been a valued client for over 35 years. The illustrations above are representative of a project which connected onto the end of the Association's existing system, which consists of four previous projects all designed by Hornor Brothers Engineers. The system began in 1970 and now has over 1000 customers.

**WETZEL COUNTY PUBLIC SERVICE DISTRICT NO. 1**

Total Project Cost = \$2,700,000; Completed 1999



250 GPM Water Booster Station on Route 20



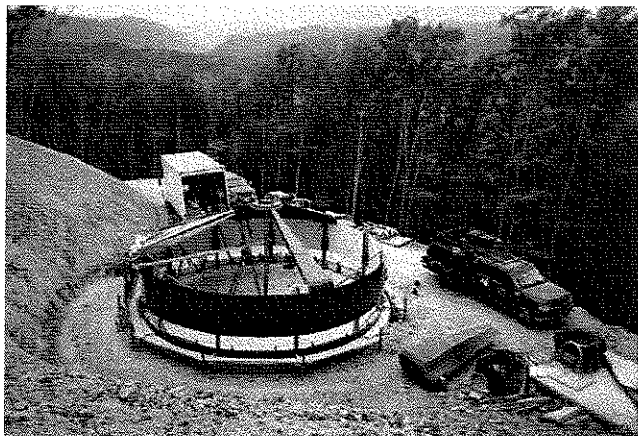
388,000 Gallon Storage Tank Off Route 20 West of Reader

The project illustrated above consisted of approximately 99,000 feet of 8", 6", 4" and 2" waterlines and serves 350 customers. Hornor Brothers designed the existing system with this Phase II project in mind. Treated water for the District is provided from the City of New Martinsville. We are currently beginning construction on Phase III, a \$3,600,000 project, which will serve an additional 268 customers upon completion.

**HUTTONSVILLE PUBLIC SERVICE DISTRICT, RANDOLPH COUNTY**

Total Project Cost = \$6,500,000; Completed 2006

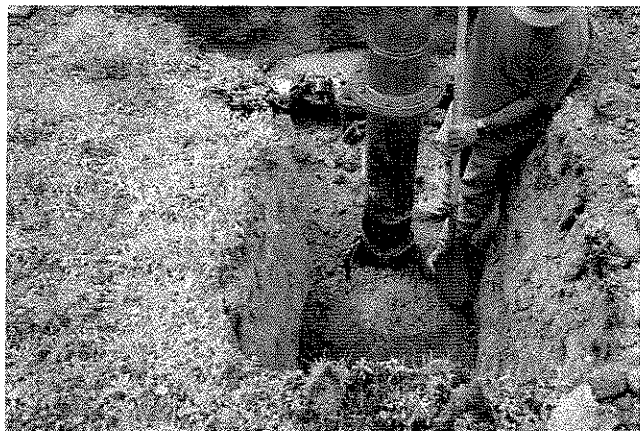
390 New Customers: 175,000 ft. of Waterline



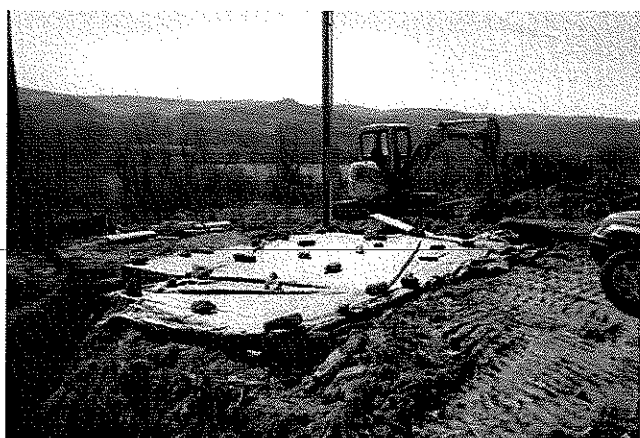
158,000 Gallon Becky's Creek Storage Tank and Site Under Construction



Background – New Master Meter Station  
Foreground – Foundation for Chemical Feed Station



Typical Thrust Blocks for Tee and Hydrant Assembly



Foundation Construction for 200 gpm Georgetown Road Booster Station



Connection of 10" HDPE River Crossing Pipe (Directionally Drilled) to 10" C-900 Pipe at Tygart Valley River

**MONTANA WATER ASSOCIATION**  
Total Project Cost = \$930,000; Completed 2002



The Montana Water Association Project was comprised of the replacement of undersized waterlines and the addition of this storage tank and a new water booster pump station. The larger lines and tanks also provided reliable fire protection to a 40year old water system which had never had it before.

**BINGAMON PUBLIC SERVICE DISTRICT**  
Total Project Cost = \$1,300,000; Completed 2006



The Bingamon Public Service District water system improvement project was comprised of the replacement of approximately 20,000 ft. of old and undersized waterlines. A new 100,000 gallon water storage tank was included, as well as fire protection for the communities of Peora and Wyatt. Additionally, the PSD's two main booster pumping stations were refurbished and fitted with greater pumping capacity.

## CLARKSBURG WATER BOARD



Total Project Cost = \$4,400,000; Completed 1994  
Two 1,000,000 Gallon Storage Tanks  
Part Of FBI Water Project

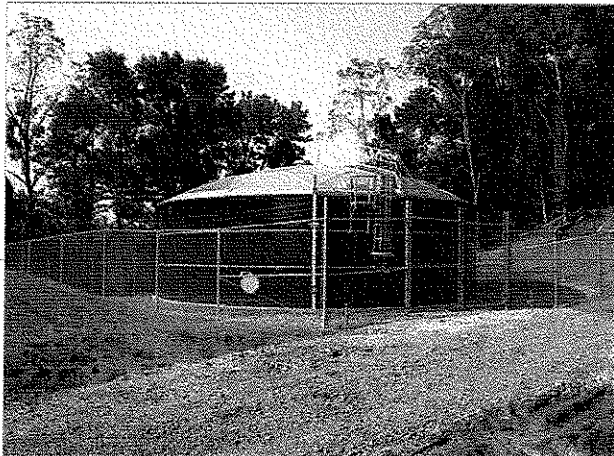


Completed in 2003  
Main Street Waterline Replacement Project  
New 12" Ductile Iron Pipe Installation

The Clarksburg Water Board extended its waterline north from Clarksburg for the purpose of connecting to the following six major customers in 1994: Enlarged Hepzibah PSD, City of Bridgeport, FBI Fingerprint Identification Complex, City of Shinnston, Summit Park PSD and Tri-County Water Association. The extension consisted of 62,000 feet of 20", 16", 12" and 8" ductile iron pipe. Also included were three 1,000,000 gallon water storage tanks, approximately 30 new residential customers and a 2,000 GPM booster station.

The Clarksburg Water Board distribution system had 8" existing waterlines along Main Street and Pike Street in Clarksburg that were over 110 years old. Carrying capacity had diminished, maintenance had increased, and the Board decided to replace these lines with new 12" ductile iron pipe. Two separate waterline extension projects, one in 2003 and another in 2004 accomplished the replacement and upgrading of those antiquated lines. The replacement involved complex excavation and line placement to work around the many other utilities inherent with a downtown area.

## TOWN OF WEST UNION



Total Project Cost = \$810,000; Completed 2003  
New 250,000 Gallon Storage Tank Behind High School

The Town of West Union obtained a West Virginia Infrastructure and Jobs Development Council loan to make various improvements to its existing municipal water system, including the replacement of old and undersized waterlines, non-functioning valves and fire hydrants and its original water storage tank. Interestingly, the new 250,000 gallon tank—constructed as a part of this project—replaced an existing concrete storage tank previously designed by Hornor Brothers Engineers nearly 70 years earlier.

We are currently in the construction phase of a waterline and sewerline expansion project for the new Doddridge County high school which will be completed in 2007.

# **PROFESSIONAL STAFF RESUMES**

# Hornor

Since 1902 **Bros. Engineers**  
Civil, Environmental and Consulting Engineering

Main & Third Streets · P.O. Box 386 · Clarksburg, West Virginia 26302 ·  
(304) 624-6445 · Fax (304) 624-6448 · www.HBE1902.com

## PROFILE

### EDUCATION

B.S., Civil Engineering, West Virginia University, 1982

### REGISTRATION

Professional Engineer, West Virginia, 1987  
Professional Surveyor, West Virginia, 1995

### AFFILIATIONS

West Virginia Society of Professional Engineers  
(WVSPE)  
American Society of Civil Engineering (ASCE)  
National Society of Professional Engineers (NSPE)  
West Virginia Rural Water Association

### EXPERIENCE

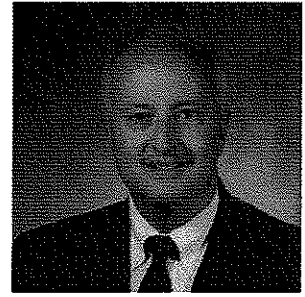
Years Experience with HBE: 23  
Years Experience with Other Firms: 3

Trey Hornor, President of Hornor Brothers Engineers, combines over 20 years of design expertise with his family owned and operated company of over 100 years to help meet the needs of clients in north central West Virginia area. He upholds the highest standards in providing reliable, professional service to our customers with value driven results.

### CURRENT RESPONSIBILITIES

As President of the firm, Trey is responsible for the management and execution of most of the firm's engineering assignments, assuring professional work and timely execution. Primary activities include the overall planning, design and project management of water, sewer, and land development project in West Virginia.

**Paul A. Hornor III, P.E.**  
President



### PROJECTS

Trey has been involved with the development and design of the following completed projects:

#### Water Systems

PROJECT	COUNTY	
Adrian Public Service District	Upshur	5 Projects
Tri-County Water Association	Marion	
Gilmer County Commission (Kanawha Drive Water Project)	Gilmer	
Sun Valley Public Service District	Harrison	
Wetzel County Public Service District No. 1	Wetzel	3 Projects
Clarksburg Water Board	Harrison	FBI Project
Gilmer County Public Service District	Gilmer	2 projects
Century-Volga Public Service District	Barbour	3 Projects
Bingamon Public Service District	Harrison	
Huttonsville Public Service District	Randolph	
Town of West Union	Doddridge	3 Projects
Mannington Public Service District	Marion	
Whitmer Water Association	Randolph	

#### Sewer Systems

Design and overall project management of several sanitary systems, including a \$7,000,000 collection and treatment project for the Lumberport Area Public Service Sewer District in Harrison County.

#### Miscellaneous

Design and/or project oversight of land development projects comprised of earthwork and embankment, drainage, paving, erosion and sediment control and restoration. Completed projects include parking lots, residential subdivisions, commercial sites and airport development.



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## PROFILE

### EDUCATION

B.S.E.T. Civil Engineering, Fairmont State College,  
1982

### REGISTRATION

Professional Engineer, West Virginia, 1999  
Professional Surveyor, West Virginia, 1990

### EXPERIENCE

Years Experience with HBE: 25  
Years Experience with Other Firms: 0

Tom Corathers, Project Manger for HBE has served the company in various capacities during his tenure. He is experienced and knowledgeable in the surveying, design, estimating and management of projects. Tom works closely with our clients, maintaining high standards, while providing reliable, professional service.

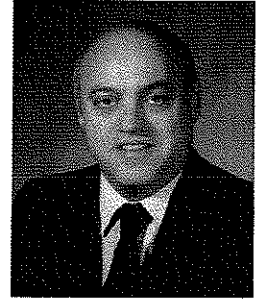
### AFFILIATIONS

National Society of Professional Engineers (NSPE)  
West Virginia Association of Land Surveyors

### CURRENT RESPONSIBILITIES

As Project Manager, Tom is responsible for the general oversight of the office engineering, and technical and surveying work. His primary activities include planning, design, review and project management of land development, drainage, site design, sidewalk, streetscape and paving projects.

**Thomas D. Corathers P.E., P.S.**  
Project Manager



### PROJECTS

Tom has been involved with the development, design and project management of the following projects:

Sewer Projects	County
Lumberport Area Public Sewer Service District	Harrison
John Brennan, Route 50, Quik Mart Store	Taylor
Heritage Farms Subdivision	Harrison
Valley View Subdivision	Harrison

Streetscape Projects	County
City of Clarksburg Streetscape (4 projects)	Harrison
City of Bridgeport Streetscape (3 projects)	Harrison
City of Weston Streetscape (2 projects)	Lewis
City of Morgantown	Monongalia

Land Development/Subdivision Projects	County
UHC New Hospital Site	Harrison
Highland Court	Harrison
Crystal Ridge	Harrison
Heritage Farms	Harrison
Bennett Manor	Harrison
Auburn Village	Harrison
Heavenly Trails	Marion
Timber Ridge	Marion
Meadow Point	Harrison

Paving and Drainage Projects	County
United Hospital Center (6 projects)	Harrison
Fairmont State College (5 projects)	Marion
Harrison County Board of Education (2 projects)	Harrison
Town of Lost Creek (2 projects)	Harrison

### MISCELLANEOUS

Design and/or project oversight of earthwork slide correction and concrete and block retaining wall projects. As a former survey manager for the firm, Tom provides advice and counsel on surveying related issues as the need arises.

# Hornor

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## PROFILE

### EDUCATION

B.S. Civil Engineering, West Virginia University, 2004

### REGISTRATION

FE/EIT

### EXPERIENCE

Years Experience with HBE: 2 years  
Years Experience with Other Firms: 2.5

Joseph Robinson, Design Engineer has a broad knowledge and experience in the following areas:

Work Experience	Details
Subdivision Design	Site grading, sanitary sewer, storm sewer, water, roads, sediment and erosion control and hydrology (HydroCAD 7.0 and TR 55 Method)
Structural Design	Pile and concrete foundations including grade beams, and timber and engineered wood beam design and connections thereof.
Design and Drafting	Drafting with LDD and Civil 3D; plan, profile and details
Engineering Management	Site plan, concept, forest conservation, wetlands, plat, planning and zoning, city, county and state review agencies
Site Design	Paving, sidewalks, curbs, drainage, utilities, erosion and sediment control

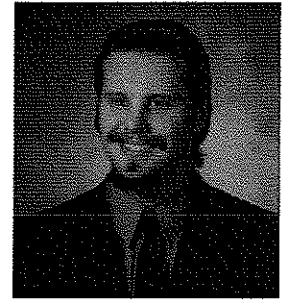
### AFFILIATIONS

American Society of Civil Engineers (ASCE)  
American Concrete Institute (ACI)

### CURRENT RESPONSIBILITIES

As Design Engineer, Joseph is responsible for the technical design and calculations for infrastructure and site development associated with residential, commercial and industrial projects.

**Joseph D. Robinson EIT**  
Design Engineer



### PROJECTS

Joseph is currently involved with the development and design of the following projects:

Sewer Projects	County
Heritage Farms Subdivision	Harrison

Land Development/Subdivision Projects	County
UHC New Hospital Site	Harrison
Heritage Farms	Harrison
City of Bridgeport – Public Safety Sub-Station Site	Harrison

Paving and Drainage Projects	County
United Hospital Center (2 projects)	Harrison
Heritage Farms	Harrison

Streetscape Projects	County
City of Clarksburg, Business District Improvements - 2007	Harrison
City of Glenville Sidewalk Replacement Project	Gilmer

### MISCELLANEOUS

Computer Skills include: Microsoft Office, AutoCAD 2006, Autodesk Land Development Design (LDD) 2004 and Civil 3D 2006, Risa2D, EPANet, FEMap, HydroCAD 7.0, Windows Environment.

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## PROFILE

### EDUCATION

West Virginia University 1980-1984  
 Civil Engineering & Preparatory Courses

### REGISTRATION

Professional Surveyor, West Virginia, 1990

### AFFILIATIONS

West Virginia Association of Land Surveyors

### EXPERIENCE

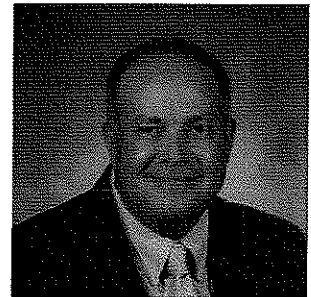
Years Experience with HBE: 16  
 Years Experience with Other Firms: 2

John Hornor, Survey Manager, has experience which includes waterline construction inspector duties and AutoCad operator experience for survey plats, water system mapping and site development drawings. John is also experienced as a field survey party chief for all types of land surveys, including property and topographic surveys, Alta surveys, elevation certificates, and construction stakeout.

### CURRENT RESPONSIBILITIES

John directs the work of a three-person field survey crew, which includes meeting with clients to review the scope of work, courthouse research, site visits and the preparation of plats and descriptions. He also oversees the field survey operations for water and sewer projects and subdivision layout.

**John W. Hornor, P.S.**  
**Surveyor Manager**



### PROJECTS

John has been involved in the surveying aspect of Hornor Brothers Engineers' property, land and municipal development and waterline projects, including the following:

Project	County
Charles Pointe – Various Site Development Surveys	Harrison
Highland Ridge Subdivision and Property Stakeout	Taylor
Clarksburg Water Board – Surveying and Mapping of Dam Sites	Harrison
Crystal Ridge Development/Dan Ryan Builders	Harrison
Jones Development/Fed Ex Ground	Harrison
NRCS Elkwater Fork Dam Project	Randolph
Glimcher Group/Home Depot	Harrison
Bridgeport, Clarksburg, Weston & Morgantown Streetscape Projects	Various
Heritage Farms Subdivision and Property Stakeout	Harrison
Land Management Group	Marion
Hardy County Dam Project for NRCS	Hardy
Water Project Mapping for Whitmer Water Association, Town of West Union, Adrian PSD, Huttonsville PSD and others	Various
Casco – Toys 'R Us	Harrison
United Hospital Center – Various Projects	Harrison
Fairmont State College – Various Projects	Marion

## REFERENCES

## WATER AND SEWER REFERENCES

### **ADRIAN PUBLIC SERVICE DISTRICT**

Don Killingsworth, Chairman  
P.O. Box 87  
French Creek, WV 26218  
Phone (304) 924-6107; Home (304) 472-0879  
Virgil K. Greenleaf, Past Chairman  
Phone (304) 472-4878

### **BINGAMON PUBLIC SERVICE DISTRICT**

Rusty Kuhens, Operator  
P.O. Box 87  
Wyatt, WV 26463  
Phone (304) 592-0778

### **CENTURY-VOLGA PUBLIC SERVICE DISTRICT**

Linda Rice, General Manager  
Route 1, Box 72  
Philippi, WV 26416  
Phone (304) 457-5735

### **LUMBERPORT AREA PUBLIC SERVICE SEWER DISTRICT**

John Kissella, Treasurer  
P.O. Box 249  
Lumberport, WV 26386-0249  
Phone (304) 592-2083 (Work)

### **MT. HOPE WATER ASSOCIATION**

Larry Farnsworth, President  
Route 2, Box 355-G  
Buckhannon, WV 26201  
Phone (304) 472-0704

### **RURAL UTILITIES SERVICE**

David E. Satterfield, State Engineer (Retired)  
153 Mingo Street  
Morgantown, WV 26505  
Phone (304) 296-8034

### **TOWN OF WEST UNION**

Etta Stadler, City Clerk  
P.O. Box 5  
West Union, WV 26456  
Phone (304) 873-1400

### **WETZEL COUNTY PUBLIC SERVICE DISTRICT NO. 1**

Forrest Tennant, Chairman  
P.O. Box 36  
Reader, WV 26167  
Phone (304) 386-4578  
Keith Nelsen, Manager, Phone (304) 386-4870

## MUNICIPAL/SITE DEVELOPMENT REFERENCES

### **CITY OF BRIDGEPORT**

Mr. Randy Spellman  
Director of Community Development  
P.O. Box 1310  
Bridgeport, WV 26330  
Phone (304) 842-8218

### **CITY OF CLARKSBURG**

Mr. Anthony Bellotte, Director of Public Works  
902 N. Third Street  
Clarksburg, WV 26301  
Phone (304) 624-1681

### **NORTH CENTRAL WEST VIRGINIA AIRPORT**

James Griffith, Airport Manager  
2000 Aviation Way  
Bridgeport, WV 26330  
Phone (304) 842-3400

### **WYK ASSOCIATES, INC.**

William E. Yoke  
205 Washington Avenue  
Clarksburg, WV 26301  
Phone (304) 624-6326

### **FAIRMONT STATE COLLEGE**

Larry Lawrence, Director of Facilities  
1201 Locust Avenue  
Fairmont, WV 26554  
Phone (304) 367-4295

### **UNITED HOSPITAL CENTER**

Geoff Marshall, Vice President  
Engineering Support Services  
P.O. Box 1680  
Clarksburg, WV 26302-1680  
Phone (304) 624-2227

### **HERITAGE FARMS SUBDIVISION**

William E. Morton, Developer  
Route 3, Box 12  
Bridgeport, WV 26330  
Phone (304) 842-2303

### **LANG BROTHERS, INC.**

Rob Lang, President  
Crystal Ridge Subdivision  
P.O. Box 910  
Bridgeport, WV 26330  
Phone (304) 842-5402