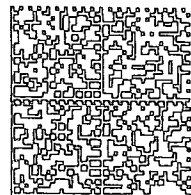


CERTIFIED MAIL™

Doddridge County FPM  
118 East Street STE 100  
West Union, WA 26456-1262



7014 0150 0001 7356 9102



015H14161808

HASLER

\$6.48

10/07/14

Mailed From 26456

US POSTAGE

2014 NOV - 1 AM 11:00  
DODDRIDGE COUNTY  
WEST UNION, WA

RETURN RECEIPT  
REQUESTED



A  
C  
S

- INSUFFICIENT ADDRESS
- ATTEMPTED NOT KNOWN
- NO SUCH NUMBER/ STREET
- NOT DELIVERABLE AS ADDRESSED - UNABLE TO FORWARD
- OTHER

Unclaimed

RTS  
RETURN TO SENDER

ST NOTICE 10-9  
 ND NOTICE 10-14  
 RETURN 10-24

2645680425 8004



**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

#14-290  
 Mary H. Holland  
 PO Box 425  
 West Union, WV 26456

2. Article Number

(Transfer from service label)

7014 0150 0001 7356 9102

PS Form 3811, July 2013

Domestic Return Receipt

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X

Agent

Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type

Certified Mail®

Priority Mail Express™

Registered

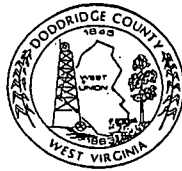
Return Receipt for Merchandise

Insured Mail

Collect on Delivery

4. Restricted Delivery? (Extra Fee)

Yes



Doddridge County FPM  
118 East Court Street, Suite 102  
West Union, WV 26456

Dear Sir or Ma'am,

You are receiving this letter because you have been identified as a land surface and/or mineral rights owner for property or adjacent property related to the proposed development project identified by the following page.

No action is required of you. This letter is simply to inform you of the proposed development.

If you would like to comment on this proposed project, or would like additional information, you may contact the Doddridge County Floodplain Manager at the above address.

Respectfully yours,

Edwin L. Wriston  
Doddridge County Floodplain Manager  
304.873.2631  
[doddridgecountyfpm@gmail.com](mailto:doddridgecountyfpm@gmail.com)

Legal Advertisement:  
Doddridge County  
Floodplain Permit Application

Please take notice that on the 29<sup>th</sup> day of September, 2014

**Cone Gathering, LLC**

filed an application for a Floodplain Permit to develop land located at or about:

**Grant/New Milton/Southwest District**

**39.171128N/80.762683W to 39.273142N/80.689713W**

**Permit #14-290 Sherwood South Pipeline**

The Application is on file with the Clerk of the County Court and may be inspected or copied during regular business hours. Any interested persons who desire to comment shall present the same in writing by ~~October 27, 2014~~, delivered to:

**Nov 6**  
Clerk of the County Court

118 E. Court Street, West Union, WV 26456

Beth A Rogers, Doddridge County Clerk

Edwin L. "Bo" Wriston. Doddridge County Flood Plain Manager

7013 2250 0001 6914 9404

U.S. Postal Service™

**CERTIFIED MAIL™ RECEIPT**

(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com)

WEST UNION WV 26456

**OFFICIAL USE** RMB102

Postage	\$ 00.49	0532
Certified Fee	\$3.30	04
Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
	\$6.49	
		10/08/2014

#14-290

Dennis & Mellie Powell  
304 Stuart St  
West Union, WV 26456

PS Form 3800, August 2006 See Reverse for Instructions

7014 0150 0001 7356 9138

U.S. Postal Service™

**CERTIFIED MAIL™ RECEIPT**

(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com)

NEW MILTON WV 26411

**OFFICIAL USE**

Postage	\$ 00.49	0532
Certified Fee	\$3.30	04
Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
	\$6.49	
		10/08/2014

#14-290

George W. & Barbara Adrian, Et al  
Rt 1 Box 95A  
New Milton, WV 26411

PS Form 3800, August 2006 See Reverse for Instructions

7014 0150 0001 7356 9140

U.S. Postal Service™

**CERTIFIED MAIL™ RECEIPT**

(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com)

JANE LEW WV 26378

**OFFICIAL USE**

Postage	\$ 00.49	0532
Certified Fee	\$3.30	04
Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
	\$6.49	
		10/08/2014

#14-290

Sua Ann Spiker  
166 Linden Lane  
Jane Lew, WV 26378

PS Form 3800, August 2006 See Reverse for Instructions

7014 0150 0001 7356 9157

U.S. Postal Service™

**CERTIFIED MAIL™ RECEIPT**

(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com)

NEW MILTON WV 26411

**OFFICIAL USE**

Postage	\$ 00.49	0532
Certified Fee	\$3.30	04
Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
	\$6.49	
		10/08/2014

#14-290

Robert Gayle Maxwell  
Rt 1 Box 28A  
New Milton, WV 26411

PS Form 3800, August 2006 See Reverse for Instructions

7014 0150 0001 7356 9171

U.S. Postal Service™

**CERTIFIED MAIL™ RECEIPT**

(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com)

WEST UNION WV 26456

**OFFICIAL USE**

Postage	\$ 00.49	0532
Certified Fee	\$3.30	04
Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
	\$6.49	
		10/08/2014

#14-290

Timothy & Rebecca Clyne  
HC 68 Box 14  
West Union, WV 26456

PS Form 3800, August 2006 See Reverse for Instructions

7014 0150 0001 7356 9164

U.S. Postal Service™

**CERTIFIED MAIL™ RECEIPT**

(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com)

NEW MILTON WV 26411

**OFFICIAL USE**

Postage	\$ 00.49	0532
Certified Fee	\$3.30	04
Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
	\$6.49	
		10/08/2014

#14-290

Lewis Frederick Maxwell  
Rt 1 Box 26B  
New Milton, WV 26411

PS Form 3800, August 2006 See Reverse for Instructions

7014 0150 0001 7356 9188

**U.S. Postal Service™**  
**CERTIFIED MAIL™ RECEIPT**  
*(Domestic Mail Only; No Insurance Coverage Provided)*

For delivery information visit our website at [www.usps.com](http://www.usps.com)

NEW MILTON WV 26411

**OFFICIAL USE**

Postage	\$ 00.49	0532
Certified Fee	\$3.30	04
Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
	\$6.49	10/08/2014

#14-290  
 Denise Donahoo  
 RR1 Box 25DD  
 New Milton, WV 26411

See Reverse for Instructions

7013 2250 0001 6914 9398

**U.S. Postal Service™**  
**CERTIFIED MAIL™ RECEIPT**  
*(Domestic Mail Only; No Insurance Coverage Provided)*

For delivery information visit our website at [www.usps.com](http://www.usps.com)

WEST UNION WV 26456

**OFFICIAL USE**

Postage	\$ 00.49	0532
Certified Fee	\$3.30	04
Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
	\$6.49	10/08/2014

#14-290  
 Robert C & Arlene Bland  
 HC 68 Box 20  
 West Union, WV 26456

PS Form 3800, August 2006 See Reverse for Instructions

7014 0150 0001 7356 9102

**U.S. Postal Service™**  
**CERTIFIED MAIL™ RECEIPT**  
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For delivery information visit our website at [www.usps.com](http://www.usps.com)

WEST UNION WV 26456

**OFFICIAL USE**

Postage	\$ 00.49	0532
Certified Fee	\$3.30	04
Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
	\$6.49	10/08/2014

#14-290  
 Mary H. Holland  
 PO Box 425  
 West Union, WV 26456

See Reverse for Instructions

7014 0150 0001 7356 9195

**U.S. Postal Service™**  
**CERTIFIED MAIL™ RECEIPT**  
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For delivery information visit our website at [www.usps.com](http://www.usps.com)

WEST UNION WV 26456

**OFFICIAL USE**

Postage	\$ 00.49	0532
Certified Fee	\$3.30	04
Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
	\$6.49	10/08/2014

#14-290  
 Norma Lee & Dale Kelley  
 HC 68 Box 21  
 West Union, WV 26456

See Reverse for Instructions

7014 0150 0001 7356 9096

**U.S. Postal Service™**  
**CERTIFIED MAIL™ RECEIPT**  
*(Domestic Mail Only; No Insurance Coverage Provided)*

For delivery information visit our website at [www.usps.com](http://www.usps.com)

MARIETTA OH 45750

**OFFICIAL USE**

Postage	\$ 00.49	0532
Certified Fee	\$3.30	04
Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
	\$6.49	10/08/2014

#14-290  
 Haessly Hardwood Lumber Co  
 Rt 1 Box 185  
 Marietta, OH 45750

See Reverse for Instructions

7014 0150 0001 7356 9119

**U.S. Postal Service™**  
**CERTIFIED MAIL™ RECEIPT**  
*(Domestic Mail Only; No Insurance Coverage Provided)*

For delivery information visit our website at [www.usps.com](http://www.usps.com)

WEST UNION WV 26456

**OFFICIAL USE**

Postage	\$ 00.49	0532
Certified Fee	\$3.30	04
Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
	\$6.49	10/08/2014

#14-290  
 Justin Henderson  
 PO Box 476  
 West Union, WV 26456

PS Form 3800, August 2006 See Reverse for Instructions

<b>SENDER: COMPLETE THIS SECTION</b>		<b>COMPLETE THIS SECTION ON DELIVERY</b>	
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>		<p>A. Signature  <input checked="" type="checkbox"/> Addressee  <input type="checkbox"/> Agent</p> <p>B. Received by (Printed Name) <i>Barbara Adrian</i></p> <p>C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input checked="" type="checkbox"/> Yes          If YES, enter delivery address below: <input type="checkbox"/> No  <i>196 Trails End Drive          West Union WV 26456</i></p> <p>3. Service Type  <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™  <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	
1. Article Addressed to:  <b>#14-290</b> <b>George W. &amp; Barbara Adrian, Et al</b> <b>Rt 1 Box 95A</b> <b>New Milton, WV 26411</b>			
2. Article Number (Transfer from service label) <b>7014 0150 0001 7356 9133</b>			
PS Form 3811, July 2013		Domestic Return Receipt	

<b>SENDER: COMPLETE THIS SECTION</b>		<b>COMPLETE THIS SECTION ON DELIVERY</b>	
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>		<p>A. Signature  <input checked="" type="checkbox"/> Addressee  <input type="checkbox"/> Agent</p> <p>B. Received by (Printed Name) <i>Dennis Powell</i></p> <p>C. Date of Delivery <i>10-10-14</i></p> <p>D. Is delivery address different from item 1? <input checked="" type="checkbox"/> Yes          If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>3. Service Type  <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™  <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	
1. Article Addressed to:  <b>#14-290</b> <b>Dennis &amp; Mellie Powell</b> <b>304 Stuart St</b> <b>West Union, WV 26456</b>			
2. Article Number (Transfer from service label) <b>7013 2250 0001 6914 9404</b>			
PS Form 3811, July 2013		Domestic Return Receipt	

**U.S. Postal Service™**  
**CERTIFIED MAIL™ RECEIPT**  
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com).

**OFFICIAL USE**

Postage	\$ 00.49	0532
Certified Fee	\$3.30	04
Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
	<b>\$6.49</b>	10/08/2014

#14-290  
 I.L. Ike Morris  
 PO Box 397  
 Glenville, WV 26351

PS Form 3800, August 2009 See Reverse for Instructions

7014 0150 0001 7356 9133

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

#14-290  
 Timothy & Rebecca Clyne  
 HC 68 Box 14  
 West Union, WV 26456

2. Article Number

(Transfer from service label)

7014 0150 0001 7356 9171

PS Form 3811, July 2013

Domestic Return Receipt

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

x


 Agent Addressee

B. Received by (Printed Name)

Tim Clyne

C. Date of Delivery

10-9-14

D. Is delivery address different from item 1?  YesIf YES, enter delivery address below:  No

3. Service Type

 Certified Mail® Priority Mail Express™ Registered Return Receipt for Merchandise Insured Mail Collect on Delivery

4. Restricted Delivery? (Extra Fee)

 Yes



UNITED STATES POSTAL SERVICE



First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

• Sender: Please print your name, address, and ZIP+4® in this box •



Doddridge County FPM  
118 East Street STE 102  
West Union, WV 26456-1262

BETH A. ROE  
COUNTY CLERK  
DODDRIDGE COUNTY, WV

OCT 10 AM 11:07

FILE

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

#14-290  
 Robert C & Arlene Bland  
 HC 68 Box 20  
 West Union, WV 26456

2. Article Number

*(Transfer from service label)***COMPLETE THIS SECTION ON DELIVERY**

A. Signature

x *Arlene Bland*  Agent  
 Addressee

B. Received by (Printed Name)

# *ARLENE BLAND*

C. Date of Delivery

*10-9-4*D. Is delivery address different from item 1?  YesIf YES, enter delivery address below:  No

3. Service Type

- Certified Mail®  Priority Mail Express™  
 Registered  Return Receipt for Merchandise  
 Insured Mail  Collect on Delivery

4. Restricted Delivery? (Extra Fee)

 Yes

7013 2250 0001 6914 9398

UNITED STATES POSTAL SERVICE



First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

- Sender: Please print your name, address, and ZIP+4® in this box •



#14-  
Doddrige County FPM  
118 East Court St STE 102  
West Union, WV 26456-1262

FILED  
2014 OCT 10 AM 11:07  
STH A. ROGERS  
COUNTY CLERK  
DODDRIGE COUNTY, WV

FILED

FILED

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

#14-290  
 Robert Gayle Maxwell  
 Rt 1 Box 28A  
 New Milton, WV 26411

2. Article Number  
 (Transfer from service label)

7014 0150 0001 7356 9157

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

x Robert Maxwell  Agent  
 Addressee

B. Received by (Printed Name)

Robert Maxwell

C. Date of Delivery

10 9 14

D. Is delivery address different from item 1?  Yes

If YES, enter delivery address below:

 No

3. Service Type

- Certified Mail  Priority Mail Express™
- Registered  Return Receipt for Merchandise
- Insured Mail  Collect on Delivery

4. Restricted Delivery? (Extra Fee)

 Yes

UNITED STATES

CHARLESTON  
POSTAL SERVICE

WV 250

10 OCT '14



First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

PM 1 L

- Sender: Please print your name, address, and ZIP+4® in this box•



Doddridge County FPM  
118 East Street STE 102  
West Union, WV 26456-1262

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

#14-290  
 Haessly Hardwood Lumber Co  
 Rt 1 Box 185  
 Marietta, OH 45750

2. Article Number  
 (Transfer from service label)

7014 0150 0001 7356 9096

PS Form 3811, July 2013

Domestic Return Receipt

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

x *Patty Tidd*
 Agent  
 Addressee

B. Received by (Printed Name)

*PATY TIDD*

C. Date of Delivery

*10.10.14*

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

*25 Sheets Run Rd.*

3. Service Type

Certified Mail®     Priority Mail Express™  
 Registered     Return Receipt for Merchandise  
 Insured Mail     Collect on Delivery

4. Restricted Delivery? (Extra Fee)  Yes

UNITED STATES POSTAL SERVICE



First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

• Sender: Please print your name, address, and ZIP+4® in this box •

FILED

2014 OCT 14 PM 12:36

ROCKWELL COUNTY  
CLARK COUNTY  
DODDGE COUNTY, WY

Dodge County FPM  
118 East Street STE 102  
West Union, WV 26456-1262



**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

#14-290  
 Lewis Frederick Maxwell  
 Rt 1 Box 26B  
 New Milton, WV 26411

2. Article Number

*(Transfer from service label)*

7014 0150 0001 7356 9164

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

x Lewis F Maxwell

 Agent AddresseeB. Received by *(Printed Name)*

Lewis F Maxwell

C. Date of Delivery

10-9-14

D. Is delivery address different from item 1?  YesIf YES, enter delivery address below:  No

3. Service Type

 Certified Mail® Priority Mail Express™ Registered Return Receipt for Merchandise Insured Mail Collect on Delivery4. Restricted Delivery? *(Extra Fee)* Yes



UNITED STATES POSTAL SERVICE

WV 250

10 OCT '14



First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

• Sender: Please print your name, address, and ZIP+4® in this box •

MAILED

2014 OCT 14 PM 12:48

Doddridge County FPM  
103 East Street STE 102  
West Union, WV 26456-1262

DODDRIDGE COUNTY, WV  
DODDRIDGE COUNTY, WV



**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

#14-290  
 Norma Lee & Dale Kelley  
 HC 68 Box 21  
 West Union, WV 26456

2. Article Number  
 (Transfer from service label)

7014 0150 0001 7356 9195

PS Form 3811, July 2013

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X *Norma L. Kelley* Agent Addressee

B. Received by (Printed Name)

*Norma L. Kelley*

C. Date of Delivery

*10-9-14*

D. Is delivery address different from item 1?

 Yes

If YES, enter delivery address below:

 No

3. Service Type

 Certified Mail® Priority Mail Express™ Registered Return Receipt for Merchandise Insured Mail Collect on Delivery

4. Restricted Delivery? (Extra Fee)

 Yes

Domestic Return Receipt

UNITED STATES POSTAL SERVICE



First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

• Sender: Please print your name, address, and ZIP+4® in this box •

FILED

2011 OCT 10 AM 11:11

Dodge County FPM  
851 1/2 Street STE 102  
West Union, WV 26456-1262

WILLIAM A. ROGERS  
DODGE COUNTY CLERK  
DODGE COUNTY, WV



**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

#14-290  
 I.L. Ike Morris  
 PO Box 397  
 Glenville, WV 26351

 2. Article Number  
 (Transfer from service label)

7014 0150 0001 7356 9126

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

\* Jackie Swiger

- 
- Agent
- 
- 
- Addressee

B. Received by (Printed Name)

Jackie Swiger

C. Date of Delivery

10-09-14

 D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type

- 
- Certified Mail®
- 
- Priority Mail Express™
- 
- 
- Registered
- 
- Return Receipt for Merchandise
- 
- 
- Insured Mail
- 
- Collect on Delivery

4. Restricted Delivery? (Extra Fee)  Yes

UNITED STATES POSTAL SERVICE

WV 250

09 OCT '14

FM 42



First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

• Sender: Please print your name, address, and ZIP+4® in this box •

FILED

2014 OCT 10 AM 11:12

THAYER GERS  
COUNTY CLERK  
DODD, MISSISSIPPI COUNTY, WVA

Doddridge County FPM  
118 West Street STE 102  
Union, WV 26456-1262



**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

#14-290

Sua Ann Spiker

166 Linden Lane

Jane Lew, WV 26378

2. Article Number

*(Transfer from service label)***COMPLETE THIS SECTION ON DELIVERY**

A. Signature


 Agent Addressee

B. Received by (Printed Name)

Sua Ann Spiker

C. Date of Delivery

10-9-14

D. Is delivery address different from item 1?  Yes

If YES, enter delivery address below:

 No

3. Service Type

 Certified Mail® Priority Mail Express™ Registered Return Receipt for Merchandise Insured Mail Collect on Delivery

4. Restricted Delivery? (Extra Fee)

 Yes

7014 0150 0001 7356 9140

UNITED STATES POSTAL SERVICE

CHARLESTON

WV 250

09 OCT '14

PM 11



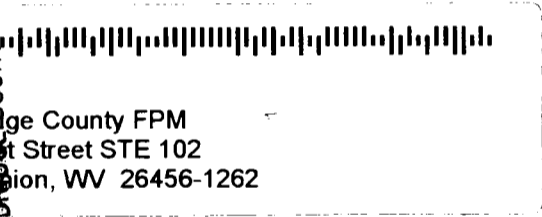
First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

• Sender: Please print your name, address, and ZIP+4® in this box •

FILED

2014 OCT 10 AM 11:12

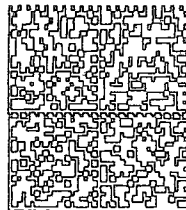
POST OFFICE  
DODDGE COUNTY, VA  
WEST UNION, WV



Dodds County FPM  
118 West Street STE 102  
West Union, WV 26456-1262

**CERTIFIED MAIL™**

Doddridge County FPM  
118 East Street STE 102  
West Union, WV 26456-1262



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	<u>\$6.48</u>
	10/07/14
	Mailed From 26456

US POSTAGE



- INSUFFICIENT ADDRESS
- ATTEMPTED NOT KNOWN
- NO SUCH NUMBER/ STREET
- NOT DELIVERABLE AS ADDRESSED
- UNABLE TO FORWARD
- OTHER

**RTS**  
RETURN TO SENDER

2011 OCT 10 AM 11:06

TH A. ROGERS  
COUNTY CLERK  
JUDGE COUNTY

RETURN REQUESTED  
RETURN REQUESTED



**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

#14-290  
Justin Henderson  
PO Box 476  
West Union, WV 26456

2. Article Number  
(Transfer from service label)

7014 0150 0001 7356 9119

PS Form 3811, July 2013

Domestic Return Receipt

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X

 Agent Addressee

B. Received by (Printed Name)

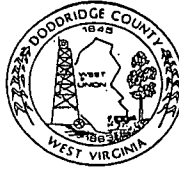
C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- Certified Mail®  Priority Mail Express™
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- Insured Mail  Collect on Delivery

4. Restricted Delivery? (Extra Fee)  Yes



Doddridge County FPM  
118 East Court Street, Suite 102  
West Union, WV 26456

Dear Sir or Ma'am,

You are receiving this letter because you have been identified as a land surface and/or mineral rights owner for property or adjacent property related to the proposed development project identified by the following page.

No action is required of you. This letter is simply to inform you of the proposed development.

If you would like to comment on this proposed project, or would like additional information, you may contact the Doddridge County Floodplain Manager at the above address.

Respectfully yours,

Edwin L. Wriston  
Doddridge County Floodplain Manager  
304.873.2631  
[doddridgecountyfpm@gmail.com](mailto:doddridgecountyfpm@gmail.com)

Legal Advertisement:  
Doddridge County  
Floodplain Permit Application

Please take notice that on the 29<sup>th</sup> day of September, 2014

**Cone Gathering, LLC**

filed an application for a Floodplain Permit to develop land located at or about:

**Grant/New Milton/Southwest District**

**39.171128N/80.762683W to 39.273142N/80.689713W**

**Permit #14-290 Sherwood South Pipeline**

The Application is on file with the Clerk of the County Court and may be inspected or copied during regular business hours. Any interested persons who desire to comment shall present the same in writing by ~~October 27, 2014~~, delivered to:

**NOV 6**  
Clerk of the County Court

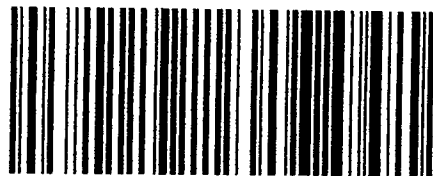
118 E. Court Street, West Union, WV 26456

Beth A Rogers, Doddridge County Clerk

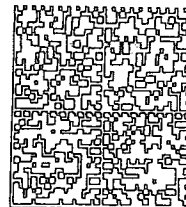
Edwin L. "Bo" Wriston. Doddridge County Flood Plain Manager

**CERTIFIED MAIL**

Doddridge County FPM  
118 East Street STE 102  
West Union, WV 26456-1262



7014 0150 0001 7356 9188



015H14161808

\$6.48

10/07/14

Mailed From 26456

HASLER

US POSTAGE

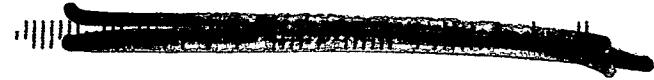
2014 OCT 10 AM 11:06  
RETURN RECEIPT  
REQUESTED  
BETH A. ROGERS  
COUNTY CLERK  
DODDRIDGE COUNTY

- A
- INSUFFICIENT ADDRESS
- ATTEMPTED NOT KNOWN
- NO SUCH NUMBER/ STREET
- NOT DELIVERABLE AS ADDRESSED
- UNABLE TO FORWARD
- OTHER

West Union not New Milton

**RTS**  
RETURN TO SENDER

2641189707 R001



**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

#14-290  
Denise Donahoo  
RR1 Box 25DD  
New Milton, WV 26411

2. Article Number  
(Transfer from service label)

7014 0150 0001 7356 9188

PS Form 3811, July 2013

Domestic Return Receipt

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X

Agent

Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

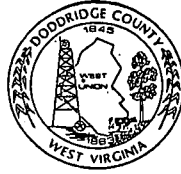
3. Service Type

Certified Mail®  Priority Mail Express™

Registered  Return Receipt for Merchandise

Insured Mail  Collect on Delivery

4. Restricted Delivery? (Extra Fee)  Yes



Doddridge County FPM  
118 East Court Street, Suite 102  
West Union, WV 26456

Dear Sir or Ma'am,

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If you would like to comment on this proposed project, or would like additional information, you may contact the Doddridge County Floodplain Manager at the above address.

Respectfully yours,

A handwritten signature in black ink, appearing to read "Edwin L. Wriston", with a long horizontal flourish extending to the right.

Edwin L. Wriston  
Doddridge County Floodplain Manager  
304.873.2631  
[doddridgecountyfpm@gmail.com](mailto:doddridgecountyfpm@gmail.com)

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Doddridge County  
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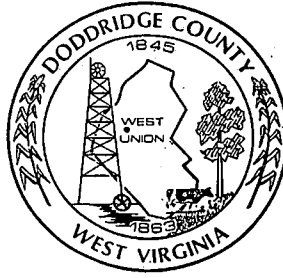
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**Nov 6**  
Clerk of the County Court

118 E. Court Street, West Union, WV 26456

Beth A Rogers, Doddridge County Clerk

Edwin L. "Bo" Wriston. Doddridge County Flood Plain Manager



# Commercial/Industrial Floodplain Development Permit

## Doddridge County, WV Floodplain Management

This permit has been issued to **Cone Gathering, LLC**, and is for the approved commercial and/or industrial development project associated with this permit that impacts the FEMA-designated floodplain and/or floodway of Doddridge County, WV, pursuant to the rules and regulations established by all applicable Federal, State and local laws and ordinances, including the Doddridge County Floodplain Ordinance. This permit must be posted at the site of work as to be clearly visible, and must remain posted during entirety of development.

**Permit: #14-290 ~ Cone Gathering, LLC ~  
Sherwood South Pipelines**

**Date Approved: 01/27/2015**

**Expires: 01/27/2016**

**Issued to: Cone Gathering, LLC via CESO, INC.**

**POC: Natalie Hooten  
412.221.2236**

**Company Address: 800 Bursca Dr STE 804  
Bridgeville, PA 15017-1451**

**Location: Grant/New Milton/Southwest Districts  
Lat/Long: 39.171128N/80.762683W to 39.273142N/80.689713W**

**Purpose of development: 10.64 mile long gas and water pipelines.**

**Issued by: Edwin L. "Bo" Wriston, Doddridge County FPM (or designee)**

**Date: 01/27/2015**

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For additional information regarding this permit, please contact  
Doddridge County Floodplain Manager at 304.873.2631, or via email at  
doddridgecountyfpm@gmail.com  
118 East Court Street; West Union, WV 26456

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Legal Advertisement:  
Doddridge County  
Floodplain Permit Application

Please take notice that on the 29<sup>th</sup> day of September, 2014

**Cone Gathering, LLC**

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**39.171128N/80.762683W to 39.273142N/80.689713W**

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**NOV 6**

Clerk of the County Court

118 E. Court Street, West Union, WV 26456

Beth A Rogers, Doddridge County Clerk

Edwin L. "Bo" Wriston. Doddridge County Flood Plain Manager

Legal Advertisement:  
Doddridge County  
Floodplain Permit Application

Please take notice that on the 29<sup>th</sup> day of September, 2014

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**39.171128N/80.762683W to 39.273142N/80.689713W**

**Permit #14-290 Sherwood South Pipeline**

The Application is on file with the Clerk of the County Court and may be inspected or copied during regular business hours. Any interested persons who desire to comment shall present the same in writing by **November 6, 2014**, delivered to:

Clerk of the County Court

118 E. Court Street, West Union, WV 26456

Beth A Rogers, Doddridge County Clerk

Edwin L. "Bo" Wriston. Doddridge County Flood Plain Manager



Edwin Wriston &lt;doddridgecountyfpm@gmail.com&gt;

**Floodplain Permit Application Status- Sherwood South (Email 1 of 3)**

1 message

**Natalie Hooton** <hooton@cesoinc.com>

Tue, Jan 20, 2015 at 3:11 PM

To: Edwin Wriston &lt;doddridgecountyfpm@gmail.com&gt;

Good afternoon Mr. Wriston. We have finally received the USACE permit for this project. I am now providing you a copy of all of the permits that were required for this project. Because of the size of many of the permit documents, I must send them via multiple e-mails. In this first e-mail, I am providing the following documents:

- WV DNR Approval
- USFWS Approval
- WV DEP Stream Activity Permits
- USACE Permit
- WV DOH Approvals

Email #2 will include WVDOH Approaches and Email #3 will include Utility Gas and Water Approvals for the Sherwood South project. We would appreciate your assistance in issuing a Doddridge County Floodplain Permit as soon as possible. Additionally, we expect to have the USACE for our one remaining project, EQT-OX11, by the end of this week. I will provide you all of those permits once we have them in hand.

Thank you,

Natalie Hooton



CESO, Inc.

800 Bursca Dr. Suite 804




Bridgeville, PA 15017

P: (412) 221-2236 x 2009 | F: (412) 221-2267

Email: hooton@cesoinc.com | Website: www.cesoinc.com

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**7 attachments**

-  **2013-12-05 SherwoodSouth - WVDNR RTE Response.pdf**  
130K
-  **2014-12-08 Sherwood South WVDEP Approval - Permit #WVR310384.pdf**  
68K
-  **SherwoodSouth\_License&RightofEntry\_LS-14VI\_09-1405.pdf**  
119K
-  **SherwoodSouth\_License&RightofEntry\_P-14VI\_09-1404.pdf**  
513K
-  **SherwoodSouth\_USACE\_Permit.pdf**  
2872K
-  **USFWS\_Approval\_EQTtoOX11andSherwoodSouthPipelines .pdf**  
699K
-  **40-3 and 13-3 WVDON improvements Approvals.pdf**  
17113K



**DEPARTMENT OF THE ARMY**  
HUNTINGTON DISTRICT, CORPS OF ENGINEERS  
502 EIGHTH STREET  
HUNTINGTON, WEST VIRGINIA 25701-2070

REPLY TO  
ATTENTION OF

January 20, 2015

Regulatory Division  
Energy Resource Branch  
LRH-2014-910-UNT South Fork Hughes River-OHR

Mr. Adam White  
Cone Gathering LLC  
One Energy Drive  
Post Office Box 1248  
Jane Lew, WV 26378

Dear Mr. White:

I refer to the Pre-Construction Notification (PCN) submitted on your behalf by GAI Consultants, Inc. requesting authorization to discharge dredged and/or fill material into waters of the United States (U.S.) in conjunction with the Sherwood South Pipeline Project near Porto Rico, Doddridge County, West Virginia. The project will consist of the installation of approximately 10.64 miles of new 16-inch and 20-inch gas transmission lines and a 16-inch waterline to deliver gas produced at the existing Noble OX 11 Well Pad to the Sherwood Gas Processing Facility. The project will require the temporary discharge of dredged and/or fill material into unnamed tributaries of Lick Run, Bluestone Creek, Buckeye Creek, Cain Run, and the South Fork Hughes River and adjacent wetlands in conjunction with the installation of gaslines, waterlines, and temporary access roads. All of the streams are tributaries to the South Fork Hughes River, a tributary of the Ohio River, a traditionally navigable water of the U.S.

The United States Army Corps of Engineers (Corps) authority to regulate waters of the U.S. is based on the definitions and limits of jurisdiction contained in 33 CFR 328 and 33 CFR 329. Section 404 of the Clean Water Act (Section 404) requires a Department of the Army (DA) permit be obtained prior to discharging dredged or fill material into waters of the U.S., including wetlands. Section 10 of the Rivers and Harbors Act of 1899 (Section 10) requires a DA permit be obtained for any work in, on, over or under a navigable water.

Based on a review of the aquatic resources in the PCN submittal, fifty (50) stream channels totaling 11,922 linear feet and twenty-four (24) palustrine emergent wetlands totaling 0.178 acre are located within the Area of Interest (AOI) as indicated in Table 1, which is described in the attached PJD form. The on-site aquatic resources may be waters of the U.S. in accordance with the Regulatory Guidance Letter for Jurisdictional Determinations (JDs) issued by the Corps on June 26, 2008 (Regulatory Guidance Letter NO. 08-02). As

indicated in the guidance, this Preliminary Jurisdictional Determination (PJD) is non-binding and cannot be appealed (33 CFR 331.2) and only provides a written indication that waters of the U.S. may be present on-site.

You have declined to exercise the option to obtain an approved JD in this instance and at this time. However, for the purposes of the determine of discharges of fill into waters of the U.S., compensatory mitigation, and aquatic resource protection measures for activities which require authorization from this office, the streams referenced above will be evaluated as if they were waters of the U.S.

Enclosed please find two (2) copies of the PJD form. If you agree with the findings of this PJD and understand your options regarding the same, please sign and date one copy of the PJD form and return it to this office within thirty (30) days of receipt of this letter. You should submit the signed copy to the following address:

United States Army Corps of Engineers  
Huntington District  
Attn: Energy Resource Branch  
502 8<sup>th</sup> Street  
Huntington, WV 25701

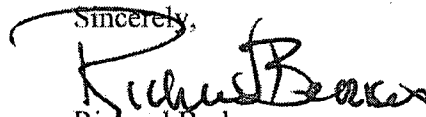
You have requested authorization to temporarily discharge fill material into waters of the U.S. in conjunction with the installation of gaslines, waterlines, and temporary access roads associated with the Sherwood South Pipeline Project. The proposal will consist of the installation of a 16-inch and 20-inch gas pipeline and 16-inch waterline under twenty stream channels and three wetlands utilizing the open trench method (See Table 1). The excavation of the trench and subsequent installation of the gas gathering pipeline and twin waterlines with the same trench will result in the temporary discharge of dredged material into 455 linear feet of stream channel and 0.051 acre of three wetlands within the project limits. Upon completion of the installation of the waterlines, the temporarily affected wetland will be restored to its pre-disturbance contours and elevations. Upon completion of the installation of the pipelines, the stream channels and wetlands will be restored to their pre-construction condition. The proposal will also include the discharge of dredged and/or fill material into 180 linear feet of four (4) stream channels and 0.057 acre of two (2) wetlands in conjunction with the installation of seven (7) culverted road crossings to provide access for the installation and the gaslines and waterlines (See Table 1). For the temporary access roads, upon completion of the installation of the gaslines and waterline, you will remove the culverted crossings and restore the streams and wetlands to their pre-construction conditions.

Based on the information provided in the permit application, it has been determined the discharge of dredged and/or fill material into waters of the U.S meets the criteria for authorization under Nationwide Permit (NWP) #12 (enclosed) under the February 21, 2012 Federal Register, Notice of Reissuance of NWPs (77 FR 10184) provided you comply with all terms and conditions of the enclosed material. A copy of this NWP can be found on our website at <http://www.lrh.usace.army.mil/Missions/Regulatory.aspx>. Please note that you must

comply with all applicable terms and conditions of the enclosed material and the attached special conditions for the authorizations to be valid.

In view of the above, your project as described above is authorized subject to the terms and conditions of the enclosed material, including the enclosed special conditions. It is your responsibility to ensure that your work conforms to all of the environmental management conditions and the attached Special Conditions listed within the enclosed material. Please be aware this NWP verification does not obviate the requirement to obtain any state or local assent required by law for the activities.

A copy of this NWP and verification letter must be supplied to your project engineer responsible for construction activities. A copy of the verification letter must be kept at the site during construction. Upon completion of the work, the enclosed certification must be signed and returned to this office. If you have any questions concerning the above, please contact Kimberly Courts-Brown at (304) 399-6906 or by email at [Kimberly.d.courtsbrown@usace.army.mil](mailto:Kimberly.d.courtsbrown@usace.army.mil).

Sincerely,  
  
Richard Berkes  
Regulatory Project Manager  
Energy Resource Branch

CF: (w/out encls)

Mr. Andrew Longenecker  
CESO, Inc.  
2800 Corporate Exchange Drive  
Suite 160  
Columbus, Ohio 43231  
[Longenecker@cesoinc.com](mailto:Longenecker@cesoinc.com)

**Table 1**  
**Discharges of Fill Material into Aquatic Resources**  
**Sherwood South Pipeline Project**

Stream/Wetland ID	Stream/Wetland Category	Discharge of Fill Linear Feet/Acreage	Duration of Fill	Type of Fill and Nature of Discharge
UNT Buckeye Creek Stream G-101	Intermittent NRPW	20 lf 0.001 acre	Temporary	Open Cut Trench 16" & 20" gasline 16" waterline Excavated soil backfill
Right Hand Fork Lick Run Stream S-6	Perennial RPW	20 lf 0.001 acre	Temporary	Open Cut Trench 16" & 20" gasline 16" waterline Excavated soil backfill
UNT Lick Run Stream G-53	Ephemeral NRPW	20 lf 0.005 acre	Temporary	Open Cut Trench 16" & 20" gasline 16" waterline Excavated soil backfill
UNT Lick Run Stream G-52	Intermittent RPW	20 lf 0.003 acre	Temporary	Open Cut Trench 16" & 20" gasline 16" waterline Excavated soil backfill
UNT Lick Creek Stream G-50	Perennial RPW	20 lf 0.003 acre	Temporary	Open Cut Trench 16" & 20" gasline 16" waterline Excavated soil backfill
UNT Lick Creek Stream G-48	Intermittent RPW	20 lf 0.001 acre	Temporary	Open Cut Trench 16" & 20" gasline 16" waterline Excavated soil backfill
UNT Lick Creek Stream G-49	Intermittent RPW	20 lf 0.001 acre	Temporary	Open Cut Trench 16" & 20" gasline 16" waterline Excavated soil backfill
UNT Lick Run Stream G-44	Intermittent RPW	55 lf 0.005 acre	Temporary	Open Cut Trench 16" & 20" gasline 16" waterline Excavated soil backfill
UNT Bluestone Creek Stream G-41	Intermittent RPW	20 lf 0.001 acre	Temporary	Open Cut Trench 16" & 20" gasline 16" waterline Excavated soil backfill
UNT Bluestone Creek Stream G-40	Ephemeral NRPW	20 lf 0.001 acre	Temporary	Open Cut Trench 16" & 20" gasline 16" waterline Excavated soil backfill
UNT Bluestone Creek Stream G-39	Ephemeral NRPW	20 lf 0.001 acre	Temporary	Open Cut Trench 16" & 20" gasline 16" waterline Excavated soil backfill
UNT Lick Run Stream G-36	Intermittent RPW	20 lf 0.001 acre	Temporary	Open Cut Trench 16" & 20" gasline 16" waterline Excavated soil backfill
UNT Lick Run Stream G-32	Intermittent RPW	20 lf 0.002 acre	Temporary	Open Cut Trench 16" & 20" gasline 16" waterline Excavated soil backfill
UNT Lick Run Stream G-31	Intermittent RPW	20 lf 0.001 acre	Temporary	Open Cut Trench 16" & 20" gasline



				16" waterline Excavated soil backfill
UNT Lick Run Stream G-30	Ephemeral NRPW	20 lf 0.001 acre	Temporary	Open Cut Trench 16" & 20" gasline 16" waterline Excavated soil backfill
Cain Run Stream CC	Perennial RPW	20 lf 0.001 acre	Temporary	Open Cut Trench 16" & 20" gasline 16" waterline Excavated soil backfill
UNT South Fork Hughes River Stream ZA	Intermittent RPW	20 lf 0.001 acre	Temporary	Open Cut Trench 16" & 20" gasline 16" waterline Excavated soil backfill
UNT South Fork Hughes River Stream EH	Ephemeral NRPW	20 lf 0.0005 acre	Temporary	Open Cut Trench 16" & 20" gasline 16" waterline Excavated soil backfill
UNT Lick Run Stream AJ-9	Intermittent RPW	40 lf 0.005 acre	Temporary	Open Cut Trench 16" & 20" gasline 16" waterline Excavated soil backfill
UNT Lick Run G-44	Intermittent RPW	20 lf 0.001 acre	Temporary	Open Cut Trench 16" & 20" gasline 16" waterline Excavated soil backfill
<b>Total Length of Gas Pipeline/Waterline Crossings</b>		<b>Twenty (20) Streams Totaling 455 lf</b>		
<b>Road Crossings</b>				
UNT Meathouse Fork Stream G-1	Intermittent RPW	25 lf 0.001 acre	Temporary	Culvert Replacement 1 1-18" HDPE Culvert TAR-2
UNT Lick Run Stream AJ-9	Intermittent RPW	35 lf 0.006 acre	Temporary	New Culvert 1-60" CMP CR 40/3 Crossing
UNT Lick Run Stream AJ-9	Intermittent RPW	40 lf 0.005 acre	Temporary	New Culvert 1-60" CMP CR 40/3 Crossing
UNT Lick Run Stream AJ-12	Intermittent RPW	25 lf 0.001 acre	Temporary	New Culvert 1-36" CMP CR 40/3 Crossing
UNT Lick Run G-44	Intermittent RPW	55 lf 0.005 acre	Temporary	New Culvert 1-54" CMP CR 40/3 Crossing
<b>Total Length of Road Crossings</b>		<b>Four (4) Streams Totaling 180 lf</b>		
<b>TOTAL LENGTH TEMPORARY STREAM CROSSINGS</b>		<b>635 lf 0.095 acre</b>		
<b>Temporary/Permanent Discharges of Fill/Dredged Material into Wetlands</b>				
Wetland E	PEM	0.022 acre	Temporary	Open Cut Trench 16" & 20" gasline 16" waterline Excavated soil backfill
Wetland G54	PEM	0.0003 acre	Temporary	Open Cut Trench 16" & 20" gasline 16" waterline Excavated soil backfill
Wetland CA	PEM	0.029 acre	Temporary	Open Cut Trench 16" & 20" gasline 16" waterline Excavated soil backfill
<b>Total Acreage of Gas Pipeline/Waterline Crossings</b>		<b>Three (3) Wetlands Totaling 0.0513 acre</b>		

Wetland AJ11	PEM	0.039 acre	Permanent	Permanent Access CR 40/3 Road Crossing
Wetland AJ13	PEM	0.018 acre	Permanent	Permanent Access CR 40/3 Road Crossing
Total Acreage Road Crossings		Two (2) Wetlands Totaling 0.057 acre		
<b>TOTAL ACREAGE WETLAND FILL</b>		<b>0.108 acre</b>		

**Nationwide Permit 12 Verification Special Conditions  
CONE Gathering LLC  
Sherwood South Pipeline Project  
LRH-2014-910-UNT South Fork Hughes River – OHR**

1. Section 7 obligations under the Endangered Species Act (ESA) must be reconsidered if new information reveals impacts of the project that may affect federally listed species or critical habitat in a manner not previously considered, the proposed project is subsequently modified to include activities which were not considered during Section 7 consultation with the United States Fish and Wildlife Service (USFWS), or new species are listed or critical habitat designated that might be affected by the subject project.
2. The Indiana Bat Conservation Plan and Avoidance and Minimization Measures, the Erosion and Sediment Control Measures, and the Frac-Out Contingency Plan prepared for the USFWS – Elkins Field Office are included as a Special Condition for this NWP 12 Verification. If the Frac-Out Contingency Plan requires a discharge of fill material into waters of the U.S., you must contact this office regarding permitting requirements.
3. If any work within waters of the U.S. becomes necessary that may result in impacts and/or effects to properties listed on or which may be potentially eligible for the National Register of Historic Places, in particular, the Site 46DO82, you must contact this office and the West Virginia Division of Culture and History (WVDCH) at 304-558-0240. You have agreed to utilize directional boring to avoid this site, however, if any work becomes necessary that would require a discharge of fill material into waters of the U.S. at this location, the Corps and WVDHC would have to determine potential effects for this site.
4. If any archeological resources are uncovered during the installation/removal of the access roads, the applicant will immediately cease all work in the area of discovery and contact the WVDHC at 304-558-0240 and the Huntington District Regulatory Office.

kdcb

Permit Number: **LRH-2014-910-UNT South Fork Hughes River-OHR**

Name of Permittee: CONE Gathering LLC  
One Energy Drive  
Post Office Box 1248  
Jane Lew, WV 26378

Date of Issuance: January 12, 2015

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the following address:

Huntington District  
U. S. Army Corps of Engineers  
502 8th Street  
Huntington, West Virginia 25701-2070  
Attn: RD-E

Please note that your permitted activity is subject to a compliance inspection by an U. S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification, or revocation.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and conditions of the said permit, and required mitigation was completed in accordance with the permit conditions.

---

Signature of Permittee

Date



# United States Department of the Interior



## FISH AND WILDLIFE SERVICE

West Virginia Field Office  
694 Beverly Pike  
Elkins, West Virginia 26241

December 3, 2014

Mr. Andrew Longenecker  
CESO, Inc. (CESO)  
800 Bursca Drive, Suite 804  
Bridgeville, Pennsylvania 15017-1451

Re: EQT to OX11 and Sherwood South Pipelines, in Doddridge County, West Virginia

Dear Mr. Longenecker:

The U.S. Fish and Wildlife Service (Service) has received your Indiana Bat Conservation Plan dated **November 20, 2014**. This plan was developed because either: 1)  you have chosen to assume the federally endangered Indiana bat (*Myotis sodalis*) is present within your project area; OR 2) the Indiana bat is known to occur in the area as a result of \_\_\_\_ summer maternity surveys or \_\_\_\_ winter hibernacula/fall swarming surveys. These comments are provided pursuant to the Endangered Species Act (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*).

Habitat assessments were conducted within the proposed project area in **September 2014**.

The results of the habitat assessment for the proposed project are as follows:

1. An estimated **106.7** acres of forest would be cleared for the project, which leaves an estimated **4,905** acres or **89.1** percent of forested habitat within the **1/4-mile** buffer area after project clearing has been completed. The total number of acres in the buffer area is **5,504**.
2. **74** potential Indiana bat roost trees were identified within the project area.
3. No portals or caves were observed within the project area.

In the Indiana Bat Conservation Plan, the project proponent stated their commitment to the avoidance, minimization, and conservation measures listed on the attached summary sheet.

These measures are designed to address the potential direct and indirect effects that may occur as a result of the project, and will ensure that no Indiana bats will be directly killed by the removal of trees, and that roosting and foraging habitat will remain within the project area after project construction.

Based on the commitment to implement these measures, the Service concurs that the proposed project is not likely to adversely affect the Indiana bat. The Indiana Bat Conservation Plan should be incorporated as a mandatory condition in any permits issued for this project, and all measures must be implemented as proposed.

#### Freshwater Mussels

The proposed projects occur within ¼-mile of Meathouse Fork and the South Fork Hughes River which provides habitat for clubshell (*Pleurobema clava*) and snuffbox (*Epioblasma triquetra*) mussels, which are listed as endangered under the ESA. Freshwater mussels feed by filtering food particles from the water column. Juvenile and adult freshwater mussels have been documented to feed on detritus, diatoms, phytoplankton, and zooplankton. Freshwater mussels rely on fish to complete their life histories. When mussel larvae (glochidia) are released into the water by adult females, they must attach themselves within a few days to an appropriate fish host, which they then parasitize for a short time while developing into juvenile mussels. The loss of many historic populations and the continuing degradation of current populations are due to the impacts of impoundments, navigation projects, water quality degradation from agricultural and industrial wastes, deforestation and other forms of habitat alteration, including gravel and sand dredging. Impacts that directly affect the species also include reduction or elimination of fish hosts.

Freshwater mussels play a key role in the health of aquatic environments by helping to maintain water quality, cycle nutrients, stabilize substrates, remove suspended sediments, and create habitat complexity (Anderson and Kreeger, 2012). Mussels remove suspended particulates from water by filter-feeding, which involves straining water over gills to remove microscopic food particles. Filter-feeding makes mussels very sensitive to excessive sedimentation caused by runoff from streambank and upland activities. Excessive sedimentation into a stream reduces suitable habitat for mussels and can smother them, causing death. Excessive suspended sediments can also impair feeding processes of mussels, leading to acute short-term or chronic long-term stress. Both excessive sedimentation and excessive suspended sediments can lead to reduced populations of mussels and therefore reduced benefits to the ecosystem (Anderson and Kreeger, 2010; Box and Mossa, 1999; Ellis, 1931; Ellis, 1936; Houpp, 1993).

In correspondence dated September 18, 2014, the project proponent stated their commitment to the erosion and sedimentation best management practices (BMPs) listed on the attached summary sheet. These best management practices will help minimize effects of sedimentation and erosion to waterways that provide habitat to federally listed mussels near the action area. In addition, the project proponent will comply with the requirements set forth in the West Virginia Department of Environmental Protection's 2006 Best Management Protection Manual and the 2012 Erosion and Sediment Control Field Oil and Gas Manual. This office should be notified immediately if any deviations from the submitted plans are anticipated during construction of the project, or if any substantial sedimentation or erosion problems occur.

Mr. Andrew Longenecker  
December 3, 2014

3

The project (Sherwood South Pipeline) proposes to cross **Meathouse Fork and the South Fork Hughes River** by horizontal directional drill (HDD). This method will allow the pipeline to be placed under the stream without direct affects to the waterway. The HDD method uses bentonite clay in its pressurized drilling that, on occasion, can result in an inadvertent release that releases bentonite clay and other drilling fluids into waterways.

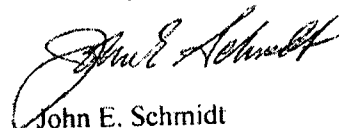
In your **September 18, 2014** correspondence, the project proponent committed to the following measures that will be followed in the event of an inadvertent release:

1. Agencies will be contacted within 24 hours of the event.
2. Immediately contain the returned material.
3. Secondary containment measures including silt fence, sand bags, turbidity curtains, water pumps, and other BMPs will be installed.
4. Provide pictures and description of the return area and document all measures taken during clean-up and stability efforts.
5. A mussel investigation will promptly begin, as necessary.

In the event of an inadvertent release, the Service believes that implementation of the measures outlined above will minimize impacts to **Meathouse Fork and the South Fork Hughes River** and federally listed species. This office should be notified immediately if any deviations from the submitted plans are anticipated, or if an inadvertent release occurs during construction of the project. In the event of an inadvertent release additional coordination with the Service will be necessary to determine if adverse impacts to federally listed species have occurred.

As a result of this information, the Service has concluded that the project may affect, but is not likely to adversely affect any federally listed endangered and threatened species. No biological assessment or further section 7 consultation under the ESA is required with the Service. Should project plans change or amendments be proposed that we have not considered in your proposed action, or if additional information on listed and proposed species becomes available, or if new species become listed or critical habitat is designated, this determination may be reconsidered. Our determination that this project may affect, but is not likely to adversely affect any federally listed species **does not apply** in the event of an inadvertent release. If you have any questions regarding this letter, please contact **Tiernan Lennon** of my staff at (304) 636-6586, **ext. 12**, or at the letterhead address.

Sincerely,



John E. Schmidt  
Field Supervisor

**Avoidance and Minimization Measures to be Applied on Project**

- Seasonal tree clearing (all trees greater than 5" DBH) **REQUIRED**
- Avoid cutting potential roost trees
- Minimize limits of disturbance (narrowed LOD or ROW)
- Minimize impacts (clearing) around suitable swarming and summer habitat and wetland/riparian zones
- 50-foot or greater forested buffer left along both sides of streams
- Collocate project features with previously disturbed or cleared areas
- Phase tree clearing over multiple years
- Reforest disturbed areas
- Restore or enhanced riparian/wetland areas
- Strong erosion and sedimentation best management practices
- Pollution control plan in place
- Suitable habitat acreage permanently preserved within or adjacent to the project site
- Other: \_\_\_\_\_
- Other: \_\_\_\_\_
- Other: \_\_\_\_\_
- Other: \_\_\_\_\_

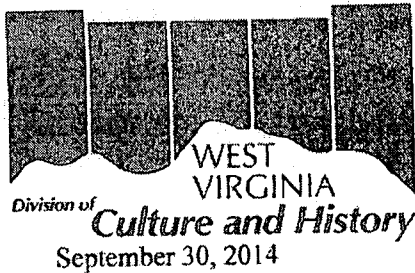
**Compensation Measures to be Applied on Project**

- Girdling trees on a 1:1 ratio for each potential roost tree that is lost during project development
- Erecting bat boxes, artificial bark, or other artificial roosting structures on a 1:1 ratio
- A 2-year minimum monitoring plan of artificial structures
- Preservation of suitable Indiana bat habitat off-site
- Creation of watering areas, wetlands, or ponds
- Other: \_\_\_\_\_
- Other: \_\_\_\_\_
- Other: \_\_\_\_\_

**Erosion and Sedimentation Best Management Practices**

- Triple-stack compost filter sock
- Super silt fence
- Corrugated metal fencing
- Armored outlets
- Green space buffers
- Other: water bars
- Other: trench plugs
- Other: \_\_\_\_\_
- Other: \_\_\_\_\_





**The Culture Center**  
1900 Kanawha Blvd., E.  
Charleston, WV 25305-0300

**Randall Reid-Smith, Commissioner**

Phone 304.558.0220 • www.wvculture.org  
Fax 304.558.2779 • TDD 304.558.3562

CEC/AAA Employee

Mr. Christopher Jackson  
Archaeological Consultants of the Midwest  
535 Fulton Street  
Wheeling, WV 26003

RE: Sherwood Pipeline Stream Crossings Project  
FR#: 14-1143-Multi

Dear Mr. Jackson:

We have reviewed the Phase I archaeological survey report that was submitted for the above referenced project. As required by Section 106 of the National Historic Preservation Act, as amended, and its implementing regulations, 36 CFR 800: "Protection of Historic Properties," we submit our comments.

According to the report, an archaeological survey was conducted within 54 stream crossings that are located along the southern section of the proposed Sherwood Pipeline Project located in Doddridge and Tyler Counties, WV. Systematic shovel probe excavation, pedestrian reconnaissance and bucket auguring were conducted within the proposed stream crossings. As well, limited test units were excavated when alluvial soils were encountered with the potential for containing deeply buried sites. The field investigations resulted in the identification of site 46DO82 within Stream Crossing 1047 and site 46Do81 within Stream Crossing 1048. All other stream crossings were negative for cultural materials.

Site 46DO81 consists of a low density lithic scatter comprised of three tertiary flakes and one secondary flake. The site lacks temporally diagnostic artifacts and evidence for stratified deposits and cultural features. As a result, we concur that 46DO81 is not eligible for inclusion in the National Register of Historic Places. No further work is necessary for this site.

Site 46DO82 consists of a scatter of historic/modern era artifacts, two depressions possibly representing the remains of a privy and/or well, a foundation remnant and depression, and a bottle dump containing mixed modern and historic era materials. The report states that a house, barn and other outbuildings are extant outside of the stream crossing boundaries and that the house appears to be in the same location as a building depicted on the 1924 Centerpoint 15' topographic map. The report also states that the current owners indicated any outbuildings within the site's defined boundaries were razed prior to their occupation of the property 10 years ago. The report concludes that the site likely dates to the late 19<sup>th</sup> and early 20<sup>th</sup> centuries and that all buildings associated with the site were razed prior to 1924.

However, it is unclear how these conclusions were reached. It is equally possible that 46DO82 represents continuous occupation of the property into the modern era. Of the 169 artifacts collected from the site, 2 porcelain Homer Laughlin ceramic fragments and 3 container glass fragments either date to or pre-date the

Mr. Christopher Jackson  
FR# 14-1143-Multi  
September 30, 2014  
Page 2

hypothesized pre-1924 occupation of the site. The remaining 164 artifacts are either non-diagnostic or are representative of items still made today. The report does not provide the soil horizon(s) from which the artifacts were recovered, nor does it provide a plan map of the site showing the locations of the shovel probes in relation to the possible features. This makes it impossible to ascertain from the report whether stratified deposits or artifact patterning are apparent. As a result, we cannot concur at this time with the recommendation that the site undergo a Phase II National Register evaluation.

It is our understanding that CONSOL Energy is planning to avoid site 46DO82 by boring underneath it. Provided that this occurs, we concur that no further work is necessary for the site. However, if boring below 46DO82 is not feasible, we will require the information mentioned above before determining whether a Phase II National Register assessment is necessary.

We appreciate the opportunity to be of service. *If you have questions regarding our comments or the Section 106 process, please contact Lora A Lamarre-DeMott, Senior Archaeologist, at (304) 558-0240.*

Sincerely,



Susan M. Pierce  
Deputy State Historic Preservation Officer

SMP/LLD



**DIVISION OF NATURAL RESOURCES**

**Wildlife Resources Section**

**Operations Center**

**P.O. Box 67**

**Elkins, West Virginia 26241-3235**

**Telephone (304) 637-0245**

**Fax (304) 637-0250**

**Earl Ray Tomblin**  
*Governor*

**Frank Jezioro**  
*Director*

December 5, 2013

Mr. Michael P. Eagan  
CESO, Inc.  
402 2<sup>nd</sup> Street SE, Suite 310  
Canton, OH 44702-1174

Dear Mr. Eagan:

We have reviewed our files for information on rare, threatened and endangered (RTE) species and sensitive habitats for the area of the proposed Sherwood South Pipeline project in Doddridge County, WV.

We have no known records of any RTE species or sensitive habitats within the project area; however, unless horizontal directional drilling (HDD) is utilized, surveys for freshwater mussels will be required in Meathouse Fork prior to any in-stream work. Because this is an endangered mussel stream, US Fish and Wildlife Service coordination will be required whether HDD is used or the site is trenched. In addition, although surveys are not required for the crossings of South Fork Hughes River, US Fish and Wildlife Service coordination will be necessary for these crossings as this is also an endangered mussel stream. The Wildlife Resources Section knows of no surveys that have been conducted in the area for rare species or rare species habitat. Consequently, this response is based on information currently available and should not be considered a comprehensive survey of the area under review.

The information provided above is the product of a database search and retrieval. This information does not satisfy other consultation or permitting requirements for disturbances to the natural resources of the state, and further consultation may be required. Additionally, any concurrence requirements for federally listed species must come from the US Fish and Wildlife Service.

Thank you for your inquiry, and should you have any questions please feel free to contact me at the above number, extension 2048. Enclosed please find an invoice.

Sincerely,

A handwritten signature in black ink, appearing to read "Barbara Sargent", is written over the typed name.

Barbara Sargent  
Environmental Resources Specialist  
Wildlife Diversity Unit

enclosure

S:\Monthly\Barb\Invoices\CESO3.doc



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

Earl Ray Tomblin  
Governor

Office of the District Engineer/Manager  
District Four

PO Box 4220 (EXIT 121, I-79) \* Clarksburg, WV 26302 \* 304-842-1550

December 11, 2014

Paul A. Mattox, Jr., P. E.  
Secretary of Transportation /  
Commissioner of Highways

CONE GATHERING, LLC  
1000 CONSOL ENERGY DRIVE  
CANONSBURG, PA 15317

Dear Applicant:

Your approved copy of Permit Number 04-2014-1194 for a T - Temporary permit type is enclosed. A description of the work is on the permit.

Please contact the District Four office:

**Mike Roncone 304-626-5472**

at least 48 hours in advance of the date you plan to begin work so arrangements can be made to inspect the work authorized by the permit.

**Failure to comply will result in cancellation of your permit.**

A copy of this permit is to be available on the job at all times while the work is in progress for inspection by the West Virginia Division of Highways' personnel.

Sincerely,

District Engineer / District Manager

Permit Supervisor

Initials: TC

Attachments: Yes

Enclosure: No

cc:0409 Charleston Permits MR

0420141194

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 9 day of September 20 14, between the WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, a statutory corporation hereinafter called DIVISION and CONE Gathering, LLC

Address: One Energy Drive, Jane Lew, WV 26378 Phone No: (240) 506-7299  
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. CR 40/3 DOH Project No. N/A (if applicable);  
at 0.59 miles North West of Jct. CR 40 and CR 13 Mile Post 3.60  
in Doddridge County, for the purposes hereinafter set forth and in accordance with the plans and specifications which are attached hereto and made a part hereof: to improve CR 40/3 to DOH standards to enable access to an approach for the construction of a natural gas pipeline.

APPLICANT further agrees to accept the conditions hereinafter set forth:

1. APPLICANT shall deposit with DIVISION the sum of \$ 1,000,000 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): 11/01/2015

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:

*[Signature]*

Title Dist. Fair Design

*[Signature]* Kelly Eddy, permitting supervisor  
Signature and Title of Applicant

BOND REQUIREMENT:

BOND NO. SUR0022700 DATE 05/16/2014

Attached  On File

INSPECTION: Owner/Consultant

Full Time  Part Time

Periodic  Reimbursable  No Cost

APPROVED:

*[Signature]*

Title Assistant District Engineer - Maintenance  
West Virginia Division of Highways

AUTHORIZATION NO: \_\_\_\_\_

PERMIT NO: 0420141194

## Benjamin Miller

---

**From:** DEP NPDESEP <DEP.NPDESEP@wv.gov>  
**Sent:** Monday, December 08, 2014 9:40 AM  
**To:** DEP NPDESEP; 'adamwhite@consolenergy.com'  
**Cc:** Benjamin Miller; Hodge, Timothy W; Swiger, Bradley C; Minigh, Christina D  
**Subject:** Approval for WVR310384, Sherwood South Pipeline, Doddridge Co., 136.2 Acres

Adam White  
Cone Gathering LLC  
One Energy Drive  
Jane Lew, WV 26378

Physical Site Location: Co. Rt. 40, Porto Rico

Please be advised that this e-mail constitutes approval for your project associated with Oil and Gas Construction Activities and your registration no. is WVR310384. You are now authorized to operate under WV General Water Pollution Control Permit No. WV0116815, issued on May 13, 2013.

You should carefully read the contents of this General Permit and become familiar with all requirements needed to remain in compliance with your permit. A "Notice of Termination" form is to be completed and submitted when all disturbed areas are stabilized. You can find the permit and Notice of Termination form via the Internet by visiting Permitting, Division of Water and Waste Management at [www.dep.wv.gov](http://www.dep.wv.gov). Your annual permit fee has been assessed as \$1500.00. You will be invoiced by this agency upon the anniversary date of this approval date. Failure to submit the annual fee within ninety (90) days of the due date will render your permit void upon the date you are mailed a certified written notice to that effect. Please be advised that a pro-rated annual permit fee may be assessed upon the completion date and proper stabilization.

If you have any questions relative to this approval, please do not hesitate to contact Joseph Cochran at (304) 926-0499 Ext. 1069 or by email at [joseph.w.cochran@wv.gov](mailto:joseph.w.cochran@wv.gov).

Scott G. Mandirola, Director  
WV DEP-Division of Water & Waste Mgt.  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304-2345  
Phone: (304) 926-0495  
Fax: (304) 926-0496



**DIVISION OF NATURAL RESOURCES**  
324 Fourth Avenue, Room 200  
South Charleston WV 25303-1228  
TDD (304) 558-1439  
TDD 1-800-354-6087  
Fax (304) 558-6048  
Telephone (304) 558-3225

**Earl Ray Tomblin**  
*Governor*

**Frank Jezioro**  
*Director*

November 6, 2014

Division of Natural Resources  
**RIGHT OF ENTRY**

**Re: LS-14-VI/09-1405**

CONE Gathering, LLC  
Adam White  
c/o CESO, Inc.  
800 Bursca Drive  
Suite 804  
Bridgeville, PA 15017-

Dear Mr. White:

The Division of Natural Resources hereby grants to you for a period of ten (10) years from the date hereof, a Right of Entry for the purpose of installing and maintaining an eighteen inch by twenty-five foot (18"x25') culvert, a six foot by thirty-five foot (6'x35') culvert, a two foot by twenty-five foot (2'x25') culvert, a six foot by forty foot (6'x40') culvert, and a four foot by fifty-five foot (4'x55') culvert in the streambeds (Sherwood South Pipeline) at five (5) separate locations along an unnamed tributary of Meathouse Fork, and unnamed tributaries of Lick Run near Porto Rico in Doddridge County, West Virginia.

This Right of Entry is subject to the following terms and conditions:

1. No in stream work during the fish-spawning season (April 1-June 30).
2. Work should be completed as quickly as possible during low flows in designated work areas only.
3. All shore areas disturbed by this operation must be reshaped, seeded and mulched immediately upon completion of work. The prompt establishment of vegetative cover will reduce future damage from high water levels.
4. Green concrete must not be put in the stream (highly toxic to aquatic life).
5. Guidance should be obtained from NRCS (formerly SCS) and a registered engineer for the design and construction. Must allow for passage of at least ten-year flood flow.

CONE Gathering, LLC  
LS-14-VI/09-1405  
Page 2  
November 6, 2014

6. Best management practices should be followed; measures such as hay bales must be used to reduce downstream siltation.
7. Applicant is responsible for removing debris from in and around the installation periodically to prevent stream flow obstruction.
8. Durable head walls of logs, rock, or concrete shall be constructed at both the upstream and downstream ends of crossing to prevent erosion of fill material into the stream.
9. The State's issuance of this Right-of-Entry does not provide for the applicant to work outside the requested boundaries nor does the State assume any liability for the applicant's/landowner's construction activities. By accepting this Right-of-Entry, the applicant/landowner assumes liability for any/all damages caused by this activity to both upstream and downstream landowners.

Guidelines of Best Management Practices for Sediment and Erosion Control as outlined by the Section of Water Resources, Division of Environmental Protection must be followed. Copies of those guidelines are available from the Section of Water Resources, 601 57<sup>th</sup> Street S.E., Charleston, West Virginia 25304-2345, Telephone No. (304) 926-0440.

The issuance of this Right of Entry by the Division of Natural Resources does not preclude the necessity to obtain a permit from the Corps of Engineers or any other state or federal permits which may be required by law, nor does this Right of Entry negate the need to comply with the West Virginia Water Pollution Control Act and/or the State Environmental Quality Board's administrative regulations, applicant is also responsible for determining if the proposed activity is located within an identified flood plain and it is the applicant's responsibility for contacting the local governmental agency in charge of that program and obtaining a flood plain development permit for it. This Right of Entry does not grant any rights or privileges, or permission to enter upon or to cross the property of any other person, nor is permission granted to remove any material that lies upon the property of any other persons. Work should be completed in as brief a period as possible and within one year from the date of this letter. In the event you fail or refuse to comply with any of the terms or conditions herein, this Right of Entry will be canceled and considered null and void and the Division will reject further applications.

Your payment is now due and payable in the amount of \$500.00 to the Division of Natural Resources covering the first year's annual fee of this agreement. Your agreement will be effective upon receipt of your payment in full. You must notify this office in writing when this installation has been removed.

Sincerely,



Joe T. Scarberry, Supervisor  
Office of Land and Streams

JTS:cb

pc: DNR Fish Biologist  
Jeremy Bandy, Environmental Enforcement  
DNR Conservation Officers





# United States Department of the Interior



## FISH AND WILDLIFE SERVICE

West Virginia Field Office  
694 Beverly Pike  
Elkins, West Virginia 26241

December 3, 2014

Mr. Andrew Longenecker  
CESO, Inc. (CESO)  
800 Bursca Drive, Suite 804  
Bridgeville, Pennsylvania 15017-1451

Re: EQT to OX11 and Sherwood South Pipelines, in Doddridge County, West Virginia

Dear Mr. Longenecker:

The U.S. Fish and Wildlife Service (Service) has received your Indiana Bat Conservation Plan dated **November 20, 2014**. This plan was developed because either: 1)  you have chosen to assume the federally endangered Indiana bat (*Myotis sodalis*) is present within your project area; **OR** 2) the Indiana bat is known to occur in the area as a result of \_\_\_ summer maternity surveys *or* \_\_\_ winter hibernacula/fall swarming surveys. These comments are provided pursuant to the Endangered Species Act (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*).

Habitat assessments were conducted within the proposed project area in **September 2014**.

The results of the habitat assessment for the proposed project are as follows:

1. An estimated **106.7** acres of forest would be cleared for the project, which leaves an estimated **4,905** acres or **89.1** percent of forested habitat within the **1/4-mile** buffer area after project clearing has been completed. The total number of acres in the buffer area is **5,504**.
2. **74** potential Indiana bat roost trees were identified within the project area.
3. No portals or caves were observed within the project area.

In the Indiana Bat Conservation Plan, the project proponent stated their commitment to the avoidance, minimization, and conservation measures listed on the attached summary sheet.

These measures are designed to address the potential direct and indirect effects that may occur as a result of the project, and will ensure that no Indiana bats will be directly killed by the removal of trees, and that roosting and foraging habitat will remain within the project area after project construction.

Based on the commitment to implement these measures, the Service concurs that the proposed project is not likely to adversely affect the Indiana bat. The Indiana Bat Conservation Plan should be incorporated as a mandatory condition in any permits issued for this project, and all measures must be implemented as proposed.

#### Freshwater Mussels

The proposed projects occur within ¼-mile of Meathouse Fork and the South Fork Hughes River which provides habitat for clubshell (*Pleurobema clava*) and snuffbox (*Epioblasma triquetra*) mussels, which are listed as endangered under the ESA. Freshwater mussels feed by filtering food particles from the water column. Juvenile and adult freshwater mussels have been documented to feed on detritus, diatoms, phytoplankton, and zooplankton. Freshwater mussels rely on fish to complete their life histories. When mussel larvae (glochidia) are released into the water by adult females, they must attach themselves within a few days to an appropriate fish host, which they then parasitize for a short time while developing into juvenile mussels. The loss of many historic populations and the continuing degradation of current populations are due to the impacts of impoundments, navigation projects, water quality degradation from agricultural and industrial wastes, deforestation and other forms of habitat alteration, including gravel and sand dredging. Impacts that directly affect the species also include reduction or elimination of fish hosts.

Freshwater mussels play a key role in the health of aquatic environments by helping to maintain water quality, cycle nutrients, stabilize substrates, remove suspended sediments, and create habitat complexity (Anderson and Kreeger, 2012). Mussels remove suspended particulates from water by filter-feeding, which involves straining water over gills to remove microscopic food particles. Filter-feeding makes mussels very sensitive to excessive sedimentation caused by runoff from streambank and upland activities. Excessive sedimentation into a stream reduces suitable habitat for mussels and can smother them, causing death. Excessive suspended sediments can also impair feeding processes of mussels, leading to acute short-term or chronic long-term stress. Both excessive sedimentation and excessive suspended sediments can lead to reduced populations of mussels and therefore reduced benefits to the ecosystem (Anderson and Kreeger, 2010; Box and Mossa, 1999; Ellis, 1931; Ellis, 1936; Houp, 1993).

In correspondence dated September 18, 2014, the project proponent stated their commitment to the erosion and sedimentation best management practices (BMPs) listed on the attached summary sheet. These best management practices will help minimize effects of sedimentation and erosion to waterways that provide habitat to federally listed mussels near the action area. In addition, the project proponent will comply with the requirements set forth in the West Virginia Department of Environmental Protection's 2006 Best Management Protection Manual and the 2012 Erosion and Sediment Control Field Oil and Gas Manual. This office should be notified immediately if any deviations from the submitted plans are anticipated during construction of the project, or if any substantial sedimentation or erosion problems occur.

Mr. Andrew Longenecker  
December 3, 2014

3

The project (Sherwood South Pipeline) proposes to cross **Meathouse Fork and the South Fork Hughes River** by horizontal directional drill (HDD). This method will allow the pipeline to be placed under the stream without direct affects to the waterway. The HDD method uses bentonite clay in its pressurized drilling that, on occasion, can result in an inadvertent release that releases bentonite clay and other drilling fluids into waterways.

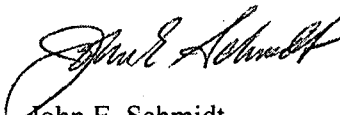
In your **September 18, 2014** correspondence, the project proponent committed to the following measures that will be followed in the event of an inadvertent release:

1. Agencies will be contacted within 24 hours of the event.
2. Immediately contain the returned material.
3. Secondary containment measures including silt fence, sand bags, turbidity curtains, water pumps, and other BMPs will be installed.
4. Provide pictures and description of the return area and document all measures taken during clean-up and stability efforts.
5. A mussel investigation will promptly begin, as necessary.

In the event of an inadvertent release, the Service believes that implementation of the measures outlined above will minimize impacts to **Meathouse Fork and the South Fork Hughes River** and federally listed species. This office should be notified immediately if any deviations from the submitted plans are anticipated, or if an inadvertent release occurs during construction of the project. In the event of an inadvertent release additional coordination with the Service will be necessary to determine if adverse impacts to federally listed species have occurred.

As a result of this information, the Service has concluded that the project may affect, but is not likely to adversely affect any federally listed endangered and threatened species. No biological assessment or further section 7 consultation under the ESA is required with the Service. Should project plans change or amendments be proposed that we have not considered in your proposed action, or if additional information on listed and proposed species becomes available, or if new species become listed or critical habitat is designated, this determination may be reconsidered. Our determination that this project may affect, but is not likely to adversely affect any federally listed species **does not apply** in the event of an inadvertent release. If you have any questions regarding this letter, please contact **Tiernan Lennon** of my staff at (304) 636-6586, **ext. 12**, or at the letterhead address.

Sincerely,



John E. Schmidt  
Field Supervisor

**Avoidance and Minimization Measures to be Applied on Project**

- Seasonal tree clearing (all trees greater than 5" DBH) **REQUIRED**
- Avoid cutting potential roost trees
- Minimize limits of disturbance (narrowed LOD or ROW)
- Minimize impacts (clearing) around suitable swarming and summer habitat and wetland/riparian zones
- 50-foot or greater forested buffer left along both sides of streams
- Collocate project features with previously disturbed or cleared areas
- Phase tree clearing over multiple years
- Reforest disturbed areas
- Restore or enhanced riparian/wetland areas
- Strong erosion and sedimentation best management practices
- Pollution control plan in place
- Suitable habitat acreage permanently preserved within or adjacent to the project site
- Other: \_\_\_\_\_
- Other: \_\_\_\_\_
- Other: \_\_\_\_\_
- Other: \_\_\_\_\_

**Compensation Measures to be Applied on Project**

- Girdling trees on a 1:1 ratio for each potential roost tree that is lost during project development
- Erecting bat boxes, artificial bark, or other artificial roosting structures on a 1:1 ratio
- A 2-year minimum monitoring plan of artificial structures
- Preservation of suitable Indiana bat habitat off-site
- Creation of watering areas, wetlands, or ponds
- Other: \_\_\_\_\_
- Other: \_\_\_\_\_
- Other: \_\_\_\_\_

**Erosion and Sedimentation Best Management Practices**

- Triple-stack compost filter sock
- Super silt fence
- Corrugated metal fencing
- Armored outlets
- Green space buffers
- Other: water bars
- Other: trench plugs
- Other: \_\_\_\_\_
- Other: \_\_\_\_\_



**DIVISION OF NATURAL RESOURCES**

324 Fourth Avenue, Room 200  
South Charleston WV 25303-1228  
TDD (304) 558-1439  
TDD 1-800-354-6087  
Fax (304) 558-6048  
Telephone (304) 558-3225

Earl Ray Tomblin  
Governor

Frank Jezioro  
Director

November 6, 2014

Division of Natural Resources  
**LICENSE AND RIGHT OF ENTRY**

Re: P-14-VI/09-1404

CONE Gathering, LLC  
Adam White  
c/o CESO, Inc.  
800 Bursca Drive  
Suite 804  
Bridgeville, PA 15017-

Dear Mr. White:

The Division of Natural Resources hereby grants to you for a term of ten (10) years, from the date hereof, a License and Right of Entry to construct, replace, cover, repair, operate, maintain, use and remove a twenty inch (20") gas pipeline, a sixteen inch (16") gas pipeline, a sixteen inch (16") water pipeline, and a twelve inch (12") water pipeline (Sherwood South Pipeline) at twenty (20) separate locations along Meathouse Fork, an unnamed tributary of Buckeye Creek, Right Hand Fork Lick Run, unnamed tributaries of Lick Run, unnamed tributaries of Bluestone Creek, Cain Run, an unnamed tributary of Cain Run, and unnamed tributaries of the South Fork Hughes River, Grant, New Milton, and Southwest Districts, Doddridge County, West Virginia, as shown located and highlighted in red on the map attached hereto as Exhibit A - B.

This License and Right of Entry is subject to the following terms and conditions:

**High Quality Streams (HQS)** as listed in the West Virginia Division of Natural Resources High Quality Stream Sixth Edition published in 2001 and for any trout streams and direct tributaries of trout streams:

- Directional bore or slick bore are the only methods allowed on Meathouse Fork and the South Fork Hughes River.
- Directional boring is the only method permitted during the fish spawning season. Fish spawning season for warmwater streams runs from April 1<sup>st</sup> through June 30<sup>th</sup>. Trout spawning season runs from October 1<sup>st</sup> through April 30<sup>th</sup>.
- Other dry ditch methods (pump around, flume or cofferdam) as described in WVDEP water resources manual (published 2006) on page 3.21-4 may be used outside of spawning seasons.
- Each crossing that utilizes dry ditch methods must be completed in 2 consecutive work days.

CONE Gathering, LLC  
P-14-VI/09-1404  
Page 2  
November 6, 2014

**Non-high quality stream:**

- Directional boring or other dry ditch methods (pump around, flume or cofferdam) as described in WVDEP water resources manual (published 2006) on page 3.21-4 may be used at all times during fish spawning season from April 1<sup>st</sup> through June 30<sup>th</sup>. This eliminates the need for spawning season restrictions.
- Crossings using methods other than directional boring. Must be completed in 1 work day.
- Only ephemeral/intermittent streams that are dry can be trenched.

**Bank Stabilization**

All bank stabilization projects must begin immediately upon completion of utility line crossing and be completed within 24 hours of completion of utility line crossing.

**Freshwater Mussels**

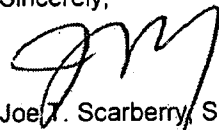
Mussel surveys on streams with known US Fish and Wildlife listed or candidate endangered species will be required if directional boring is not an option. Contact Janet Clayton of the WVDNR Wildlife Diversity Program for information concerning mussels at 304-637-0245.

For further assistance, contact the appropriate WVDNR District Fisheries Biologist.  
District 1 304-825-6787 District 2 304-822-3551 District 3 304-924-6211  
District 4 304-256-6947 District 5 304-675-0871 District 6 304-420-4550

The issuance of this License and Right of Entry by the Division of Natural Resources does not preclude the necessity to obtain a permit from the Corps of Engineers or any other state or federal permits which may be required by law, nor does this License and Right of Entry negate the need to comply with the West Virginia Water Pollution Control Act and/or the State Environmental Quality Board's administrative regulations, applicant is also responsible for determining if the proposed activity is located within an identified flood plain and it is the applicant's responsibility for contacting the local governmental agency in charge of that program and obtaining a flood plain development permit for it. This License and Right of Entry does not grant any rights or privileges, or permission to enter upon or to cross the property of any other person, nor is permission granted to remove any material that lies upon the property of any other persons. Work should be completed in as brief a period as possible and within one year from the date of this letter. In the event you fail or refuse to comply with any of the terms or conditions herein, this License and Right of Entry will be canceled and considered null and void and the Division will reject further applications.

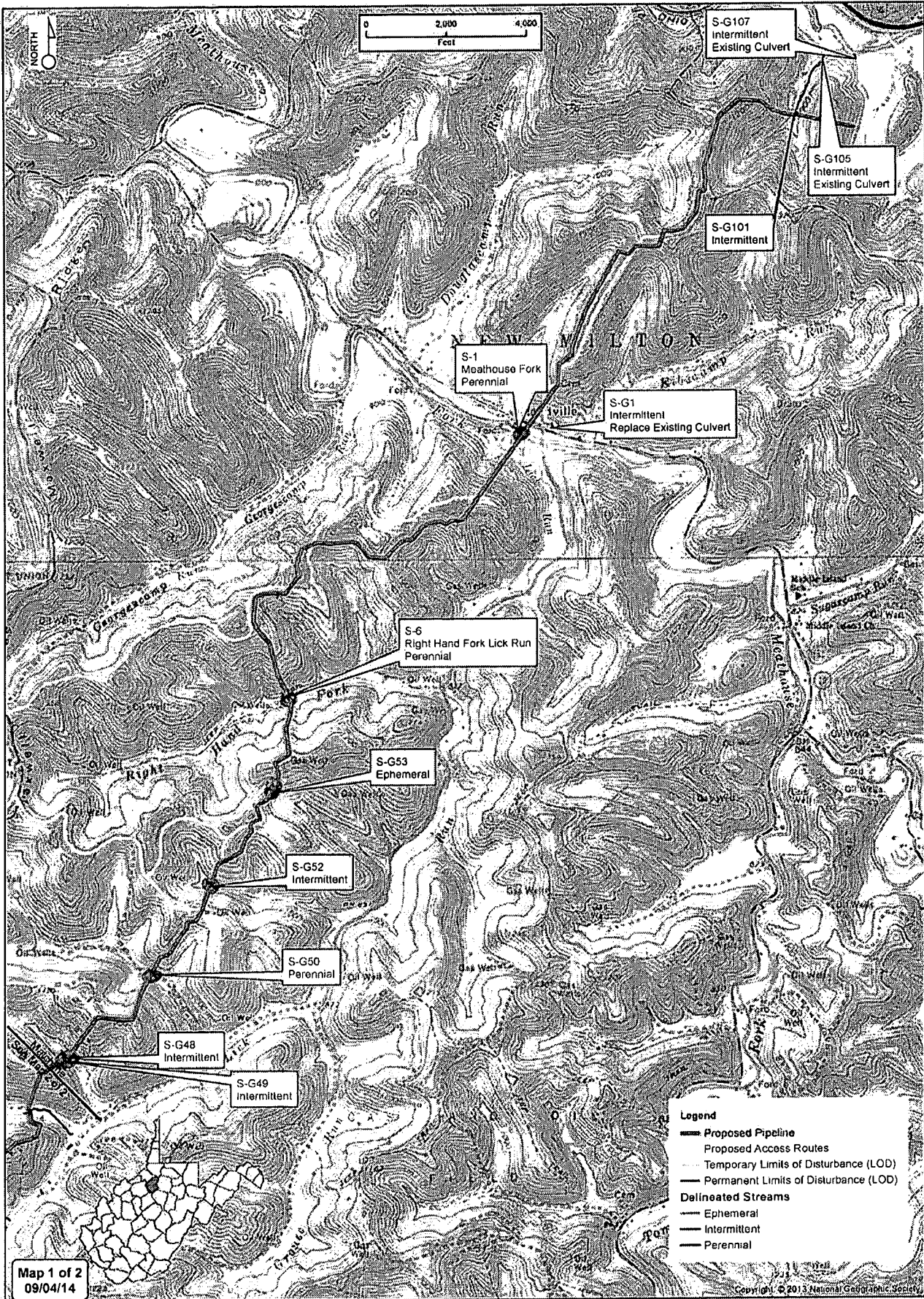
Your check in the amount of \$18000.00 is now due and payable to the Division of Natural Resources covering the (10) ten-year fee of this agreement. Your agreement will be effective upon receipt of your payment in full.

Sincerely,



Joe T. Scarberry, Supervisor  
Office of Land and Streams

JTS:cb  
attachment  
pc: DNR Fish Biologist  
Jeremy Bandy, Environmental Enforcement  
DNR Conservation Officers



Map 1 of 2  
09/04/14

**Legend**

- Proposed Pipeline
- Proposed Access Routes
- Temporary Limits of Disturbance (LOD)
- Permanent Limits of Disturbance (LOD)
- Delineated Streams
  - Ephemeral
  - Intermittent
  - Perennial



**Sherwood South Pipeline**  
Stream Crossings Map  
Doddridge County, West Virginia









WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

**Division of Highways**

Earl Ray Tomblin  
Governor

Office of the District Engineer/Manager  
District Four

PO Box 4220 (EXIT 121, I-79) \* Clarksburg, WV 26302 \* 304-842-1550

Paul A. Mattox, Jr., P. E.  
Secretary of Transportation /  
Commissioner of Highways

December 11, 2014

CONE GATHERING, LLC  
1000 CONSOL ENERGY DRIVE  
CANONSBURG, PA 15317

Dear Applicant:

Your approved copy of Permit Number 04-2014-1193 for a T - Temporary permit type is enclosed. A description of the work is on the permit.

Please contact the District Four office:

**Mike Roncone 304-626-5472**

at least 48 hours in advance of the date you plan to begin work so arrangements can be made to inspect the work authorized by the permit.

**Failure to comply will result in cancellation of your permit.**

A copy of this permit is to be available on the job at all times while the work is in progress for inspection by the West Virginia Division of Highways' personnel.

Sincerely,

District Engineer / District Manager

Permit Supervisor

Initials: TC

Attachments: Yes

Enclosure: No

cc:0409 Charleston Permits MR

PERMIT NO. 0420141193

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 22 day of August 20 14, between the WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, a statutory corporation hereinafter called DIVISION and CONE Gathering, LLC

Address: One Energy Drive, Jane Lew, WV 26378 Phone No: (240) 506-7299  
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. CR 40/3 DOH Project No. N/A (if applicable);  
at 0.85 miles north of Jct. CR 40/3 and CR 13 Mile Post 0.897  
in Doddridge County, for the purposes hereinafter set forth and in accordance with the plans and specifications which are attached hereto and made a part hereof: to construct a temporary access drive to enable the construction of a natural gas pipeline.

TAR-6

APPLICANT further agrees to accept the conditions hereinafter set forth:

1. APPLICANT shall deposit with DIVISION the sum of \$ 1,000,000 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): 11/01/2015

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:

[Signature]

Title ADM 3

Kelly Eddy, permitting supervisor  
Signature and Title of Applicant

BOND REQUIREMENT:

BOND NO. SUR0022700 DATE 05/16/2014

Attached  On File

INSPECTION:

Owner/Consultant

Full Time  Part Time

Periodic  Reimbursable  No Cost

APPROVED:

[Signature]

Title Assistant District Engineer - Maintenance  
West Virginia Division of Highways

AUTHORIZATION NO: \_\_\_\_\_

PERMIT NO: 0420141193



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

**Division of Highways**

Earl Ray Tomblin  
Governor

Office of the District Engineer/Manager  
District Four

PO Box 4220 (EXIT 121, I-79) \* Clarksburg, WV 26302 \* 304-842-1550

December 11, 2014

Paul A. Mattox, Jr., P. E.  
Secretary of Transportation /  
Commissioner of Highways

CONE GATHERING, LLC  
1000 CONSOL ENERGY DRIVE  
CANONSBURG, PA 15317

Dear Applicant:

Your approved copy of Permit Number 04-2014-1172 for a UW - Utility Water permit type is enclosed. A description of the work is on the permit.

Please contact the District Four office:

**Mike Roncone 304-626-5472**

at least 48 hours in advance of the date you plan to begin work so arrangements can be made to inspect the work authorized by the permit.

**Failure to comply will result in cancellation of your permit.**

A copy of this permit is to be available on the job at all times while the work is in progress for inspection by the West Virginia Division of Highways' personnel.

Sincerely,

District Engineer / District Manager

Permit Supervisor

Initials: TC

Attachments: Yes

Enclosure: No

cc:0409 Charleston Permits MR

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 22 day of August 20 14, between the WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, a statutory corporation hereinafter called DIVISION and CONE Gathering, LLC

Address: One Energy Drive, Jane Lew, WV 26378 Phone No: (240) 506-7299  
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. CR 13 DOH Project No. N/A (if applicable);  
at 0.22 miles west of Jct. CR 13 and CR 40/3 Mile Post 3.810  
in Doddridge County, for the purposes hereinafter set forth and in accordance with the plans and specifications which are attached hereto and made a part hereof:  
to install one 16" waterline under CR 13 using the open cut method.

UTILIZE CASE C-2

APPLICANT further agrees to accept the conditions hereinafter set forth:

- APPLICANT shall deposit with DIVISION the sum of \$ 75,000 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.
- 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
- 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.
- 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".
- APPLICANT agrees to comply with all applicable state and federal laws in the performance of work under this permit.
- Supplementary conditions cited on the reverse side of this permit are understood and agreed to be a part hereof.
- The work authorized under this permit shall be completed on or before (Date): 11/01/2015

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:  
[Signature]  
Title District Engineer 3

Kelly Eddy, permitting supervisor  
Signature and Title of Applicant

BOND REQUIREMENT:  
BOND NO. SUR0028729 DATE 07/10/2014  
Attached  On File   
INSPECTION: Owner/Consultant   
Full Time  Part Time   
Periodic  Reimbursable  No Cost

APPROVED: [Signature]  
Title Assistant District Engineer - Maintenance  
West Virginia Division of Highways

AUTHORIZATION NO: \_\_\_\_\_

PERMIT NO: 0420141172



800 Bursca Drive, Suite 804  
Bridgeville, Pennsylvania 15017-1451  
(412) 221-2236  
www.cesoinc.com

FILED

2014 SEP 29 PM 12:06

BETH A. HOOTON  
COUNTY CLERK  
DODDRIDGE COUNTY, WV

September 24, 2014

Mr. Edwin "Bo" Wriston  
Doddridge County Floodplain Manager  
118 East Court Street  
West Union, WV 26456

**RE: Cone Gathering- Sherwood South Pipeline  
Doddridge County Floodplain Permit**

Dear Mr. Wriston:

CESO, Inc. is pleased to submit this information for a Doddridge County Floodplain Permit, for the proposed Sherwood South Pipeline. **Cone Gathering, LLC** (Cone), is proposing to construct a new pipeline gathering system within a portion of Doddridge County, West Virginia. The proposed project will begin at the OX11 natural gas well pad near 39.171128 N Latitude, 80.762683 W Longitude (NAD83), which lies south of Porto Rico, West Virginia. The project starting location is bordered on the east by County Route 40. The proposed pipeline traverses in a general north and northeasterly direction, bisecting South Fork of Hughes River Road approximately 1.1 miles from its starting location and continues north-northeasterly crossing numerous County Roads and State Route 18, prior to reaching its terminus near Sherwood, West Virginia; south of State Route 50 at 39.273142 N Latitude, 80.689713 W Longitude (NAD83). The proposed new gathering line will be approximately 10.64 miles long, connecting the OX11 well pad to the Sherwood processing facility, which is under construction. A 16-inch gas line, a 20-inch gas line, a 16-inch water line, and a 12-inch water line (located north of Meathouse Fork only) will run in the proposed alignment.

CESO, Inc. has identified a total of twenty-five (25) crossings of named and/or unnamed waterways in Doddridge County as a result of this project. The Doddridge County Development Permit Application further describing project characteristics is presented in Attachment 1. A map depicting the proposed alignment location as well as a table and map identifying stream crossings are also provided.

Waterway crossings associated with the pipeline installation will be the result of open cutting of the stream channel, except for the Meathouse Fork and South Fork Hughes River crossings, which will utilize HDD bore and slick bore processes, respectively, to avoid impacts to federally protected mussel species. All waterways will be returned to their pre-disturbance plan, profile, and dimension after the pipe has been installed. In addition, proper construction sequencing and implementation of an approved erosion and sediment control plan will ensure water quality impacts are minimized throughout the project area and the proposed activities are in compliance with Nationwide Permit General Conditions and Regional General Conditions.

Should you have any questions or comments please don't hesitate to contact me at 412-221-2236 ext. 2009 or through email at [hooton@cesoinc.com](mailto:hooton@cesoinc.com).

Sincerely,

CESO, Inc.

Natalie Hooton  
Staff Biologist

CREATION TO COMPLETION

Engineering • Architecture • Survey • Construction Mgt • Environmental



**Attachment E- Project Location-  
Adjacent and/or Affected Landowners**



**Attachment E- Project Location-  
Adjacent and/or Affected Landowners**

TAX ID: 09-03-0019-0031-0000-0000

NAME OF SURFACE OWNER/OWNERS: Dennis and Mellie Powell

ADDRESS OF PROPERTY: Route 50, Salem, WV 26426

ADDRESS OF SURFACE OWNER/OWNERS: 304 Stuart Street, West Union, WV 26456

---

TAX ID: 09-06-0002-0002-0000-0000

NAME OF SURFACE OWNER/OWNERS: Robert C & Arlene Bland

ADDRESS OF PROPERTY: Off Route 18/5 Douglas Run, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 20, West Union, WV 26456

---

TAX ID: 09-06-0002-0006-0000-0000

NAME OF SURFACE OWNER/OWNERS: Robert C & Arlene Bland

ADDRESS OF PROPERTY: Off Route 18/5 Eibscamp Run, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 20, West Union, WV 26456

---

TAX ID: 09-06-0002-0004-0000-0000

NAME OF SURFACE OWNER/OWNERS: Robert C & Arlene Bland

ADDRESS OF PROPERTY: Off Route 18/5 Hickory Run, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 20, West Union, WV 26456

---

TAX ID: 09-06-0004-0002-0003-0000

NAME OF SURFACE OWNER/OWNERS: Robert C & Arlene Bland

ADDRESS OF PROPERTY: WV Route 18, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 20, West Union, WV 26456

---

TAX ID: 09-06-0004-0001-0007-0000

NAME OF SURFACE OWNER/OWNERS: Robert C & Arlene Bland

ADDRESS OF PROPERTY: Off Route 18, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 20, West Union, WV 26456



**Attachment E- Project Location-  
Adjacent and/or Affected Landowners**

TAX ID: 09-06-0002-0004-0001-0000

NAME OF SURFACE OWNER/OWNERS: Robert C & Arlene Bland

ADDRESS OF PROPERTY: WV Route 18, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 20, West Union, WV 26456

---

TAX ID: 09-06-0002-0009-0000-0000

NAME OF SURFACE OWNER/OWNERS: Robert C Bland Et Ux

ADDRESS OF PROPERTY: Off Route 18 Elbscamp Run, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 20, West Union, WV 26456

---

TAX ID: 09-06-0004-0003-0000-0000

NAME OF SURFACE OWNER/OWNERS: Robert C Bland Et Ux

ADDRESS OF PROPERTY: Off Route 18 Elbscamp Run, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 20, West Union, WV 26456

---

TAX ID: 09-06-0004-0001-0004-0000

NAME OF SURFACE OWNER/OWNERS: Norma Lee and Dale Kelley

ADDRESS OF PROPERTY: Route 18, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 21, West Union, WV 26456

---

TAX ID: 09-06-0004-0001-0005-0000

NAME OF SURFACE OWNER/OWNERS: Norma Lee and Dale Kelley

ADDRESS OF PROPERTY: Route 18, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 21, West Union, WV 26456

---

TAX ID: 09-06-0004-0002-0001-0000

NAME OF SURFACE OWNER/OWNERS: Norma Lee and Dale Kelley

ADDRESS OF PROPERTY: Route 18, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 21, West Union, WV 26456





**Attachment E- Project Location-  
Adjacent and/or Affected Landowners**

TAX ID: 09-06-0003-0007-0001-0000

NAME OF SURFACE OWNER/OWNERS: Denise Donahoo

ADDRESS OF PROPERTY: Route 18/Blandville, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: RR 1 Box 25DD, New Milton, WV 26411

---

TAX ID: 09-06-0003-0007-0002-3001

NAME OF SURFACE OWNER/OWNERS: Timothy & Rebecca Clyne

ADDRESS OF PROPERTY: Off Route 18/Blandville, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 14, West Union, WV 26456

---

TAX ID: 09-06-0003-0006-0001-0000

NAME OF SURFACE OWNER/OWNERS: Timothy & Rebecca Clyne

ADDRESS OF PROPERTY: Off Route 18/Blandville, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 14, West Union, WV 26456

---

TAX ID: 09-06-0003-0011-0000-0000

NAME OF SURFACE OWNER/OWNERS: Lewis Frederick Maxwell

ADDRESS OF PROPERTY: Lick Run Route 40, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: Route 1 Box 26B, New Milton, WV 26411

---

TAX ID: 09-06-0003-0012-0000-0000

NAME OF SURFACE OWNER/OWNERS: Robert Gayle Maxwell

ADDRESS OF PROPERTY: Off Route 13/Right Hand Fork Run, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: Route 1 Box 28 A, New Milton, WV 26411

---

TAX ID: 09-06-0003-0012-0001-0000

NAME OF SURFACE OWNER/OWNERS: Robert Gayle Maxwell

ADDRESS OF PROPERTY: Off Route 13/Right Hand Fork Road, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: Route 1 Box 28 A, New Milton, WV 26411

---

TAX ID: 09-06-0003-0001-0000-6001

NAME OF SURFACE OWNER/OWNERS: Sue Ann Spiker

ADDRESS OF PROPERTY: Off Route 18/Meathouse Fork, West Union, WV

ADDRESS OF SURFACE OWNER/OWNERS: 166 Linden Lane, Jane Lew, WV 26378



**Attachment E- Project Location-  
Adjacent and/or Affected Landowners**

TAX ID: 09-06-0003-0001-0001-0000

NAME OF SURFACE OWNER/OWNERS: George Adrian et al.

ADDRESS OF PROPERTY: Off of Route 18, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: Route 1 Box 95A, New Milton, WV 26411

---

TAX ID: 09-06-0007-0001-0000-0000

NAME OF SURFACE OWNER/OWNERS: I.L. Ike Morris

ADDRESS OF PROPERTY: 3 Route 40 Over, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: P.O. Box 397, Glenville, WV 26351

---

TAX ID: 09-07-0006-0001-0000-0000

NAME OF SURFACE OWNER/OWNERS: Justin Henderson

ADDRESS OF PROPERTY: Route 13, West Union, WV 26456

ADDRESS OF SURFACE OWNER/OWNERS: P.O. Box 476, West Union, WV 26456

---

TAX ID: 09-06-0003-0002-0000-6001

NAME OF SURFACE OWNER/OWNERS: I.L. Ike Morris

ADDRESS OF PROPERTY: Route 23, West Union, WV 26456

ADDRESS OF SURFACE OWNER/OWNERS: P.O. Box 397, Glenville, WV 26351

---

TAX ID: 09-08-0023-0002-0000-0000

NAME OF SURFACE OWNER/OWNERS: Mary H. Holland

ADDRESS OF PROPERTY: Route 4, West Union, WV 26456

ADDRESS OF SURFACE OWNER/OWNERS: P.O. Box 425, West Union, WV 26456

---

TAX ID: 09-06-0003-0006-0001-0000

NAME OF SURFACE OWNER/OWNERS: George W. and Barbara B Adrian

ADDRESS OF PROPERTY: Route 1, Box 95A, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: Route 1, Box 95A, New Milton, WV 26411

---

TAX ID: 09-06-0004-0009-0000-6001

NAME OF SURFACE OWNER/OWNERS: Haessly Hardwood Lumber Co.

ADDRESS OF PROPERTY: Route 18 Blandville, New Milton, WV, 26411

ADDRESS OF SURFACE OWNER/OWNERS: Route 1Box 185, Marietta, OH 45750



**Attachment A- Project Location-  
Surface Owner Information**

TAX ID: 09-06-0003-0006-0001-0000

NAME OF SURFACE OWNER/OWNERS: George W. and Barbara B Adrian

ADDRESS OF PROPERTY: Route 1, Box 95A, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: Route 1, Box 95A, New Milton, WV 26411

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 260/Page 630

TAX MAP REFERENCE: Map 1

EXISTING BUILDINGS/USES OF PROPERTY: Unknown

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT  
PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT  
PROPERTY: Unknown

---

TAX ID: 09-06-003-0002-0000-6001

NAME OF SURFACE OWNER/OWNERS: I.L. Ike Morris

ADDRESS OF PROPERTY: Route 23, West Union, WV 26456

ADDRESS OF SURFACE OWNER/OWNERS: P.O. Box 397, Glenville, WV 26351

DISTRICT: Southwest

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 230/ Page 307

TAX MAP REFERENCE: MAP 10/ Parcel 2

EXISTING BUILDINGS/USES OF PROPERTY: There are currently several horizontal 6A wells with access roads located on the property. One residential (rented) structure is present on the property. The remaining portions of the parcel are forested and undeveloped.

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT  
PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT  
PROPERTY: Unknown



**Attachment A- Project Location-  
Surface Owner Information**

TAX ID: 09-06-0007-0001-0000-0000

NAME OF SURFACE OWNER/OWNERS: I.L. Ike Morris

ADDRESS OF PROPERTY: 3 Route 40 Over, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: P.O. Box 397, Glenville, WV 26351

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 230/ Page 307

TAX MAP REFERENCE: MAP 7/ Parcel 1

EXISTING BUILDINGS/USES OF PROPERTY: No apparent structures on property; access roads and possible oil wells present; forested

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

---

TAX ID: 09-07-0006-0001-0000-0000

NAME OF SURFACE OWNER/OWNERS: Justin Henderson

ADDRESS OF PROPERTY: Route 13, West Union, WV 26456

ADDRESS OF SURFACE OWNER/OWNERS: P.O. Box 476, West Union, WV 26456

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: BOOK WB29/ Page 224

TAX MAP REFERENCE: MAP 6/ Parcel 1

EXISTING BUILDINGS/USES OF PROPERTY: No apparent structures; possible oil wells present; Bluestone Creek flows through property

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: There are currently no residential structures on the property.

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: There are currently no residential structures on the property.



**Attachment A- Project Location-  
Surface Owner Information**

TAX ID: 09-06-0003-0001-0000-6001

NAME OF SURFACE OWNER/OWNERS: Sue Ann Spiker

ADDRESS OF PROPERTY: Off Route 18/Meathouse Fork, West Union, WV

ADDRESS OF SURFACE OWNER/OWNERS: 166 Linden Lane, Jane Lew, WV 26378

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 214/ Page 675

TAX MAP REFERENCE: MAP 3/ Parcel 1

EXISTING BUILDINGS/USES OF PROPERTY: Possible oil wells present; small structure in the northeast corner of the parcel; forested; Georgescamp Run flows through property

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

---

TAX ID: 09-06-0003-0001-0001-0000

NAME OF SURFACE OWNER/OWNERS: George Adrian et al.

ADDRESS OF PROPERTY: Off of Route 18, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: Route 1 Box 95A, New Milton, WV 26411

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: BOOK 260/ Page 641

TAX MAP REFERENCE: MAP 3/ Parcel 1

EXISTING BUILDINGS/USES OF PROPERTY: No apparent structures; possible oil wells present; forested

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: There are currently no residential structures on the property.

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: There are currently no residential structures on the property.



**Attachment A- Project Location-  
Surface Owner Information**

TAX ID: 09-06-0003-0012-0000-0000

NAME OF SURFACE OWNER/OWNERS: Robert Gayle Maxwell

ADDRESS OF PROPERTY: Off Route 13/Right Hand Fork Run, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: Route 1 Box 28 A, New Milton, WV 26411

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 220/ Page 79

TAX MAP REFERENCE: MAP 3/ Parcel 12

EXISTING BUILDINGS/USES OF PROPERTY: Apparent residential structure on the southern portion of the parcel; Right Hand Fork flows through property; mostly forested

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

---

TAX ID: 09-06-0003-0012-0001-0000

NAME OF SURFACE OWNER/OWNERS: Robert Gayle Maxwell

ADDRESS OF PROPERTY: Off Route 13/Right Hand Fork Road, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: Route 1 Box 28 A, New Milton, WV 26411

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 214/ Page 233

TAX MAP REFERENCE: MAP 3/ Parcel 12

EXISTING BUILDINGS/USES OF PROPERTY: No apparent structures; forested; Right Hand Fork flows through the property

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown



**Attachment A- Project Location-  
Surface Owner Information**

TAX ID: 09-06-0003-0006-0001-0000

NAME OF SURFACE OWNER/OWNERS: Timothy & Rebecca Clyne

ADDRESS OF PROPERTY: Off Route 18/Blandville, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 14, West Union, WV 26456

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 260/ Page 630

TAX MAP REFERENCE: MAP 3/ Parcel 6

EXISTING BUILDINGS/USES OF PROPERTY: Possible residential structure in northwest corner of the parcel; remaining land open fields or forested

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

---

TAX ID: 09-06-0003-0011-0000-0000

NAME OF SURFACE OWNER/OWNERS: Lewis Frederick Maxwell

ADDRESS OF PROPERTY: Lick Run Route 40, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: Route 1 Box 26B, New Milton, WV 26411

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: BOOK 255/ Page 86

TAX MAP REFERENCE: MAP 3/ Parcel 11

EXISTING BUILDINGS/USES OF PROPERTY: No apparent structures; land is forested

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: There are currently no residential structures on the property.

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: There are currently no residential structures on the property.



**Attachment A- Project Location-  
Surface Owner Information**

TAX ID: 09-06-0003-0007-0001-0000

NAME OF SURFACE OWNER/OWNERS: Denise Donahoo

ADDRESS OF PROPERTY: Route 18/Blandville, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: RR 1 Box 25DD, New Milton, WV 26411

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 260/Page 643

TAX MAP REFERENCE: Map 3/ Parcel 7

EXISTING BUILDINGS/USES OF PROPERTY: Residential structure on the northern portion of parcel; remaining land is forested or open fields; Lick Run flows through the property

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

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TAX ID: 09-06-0003-0007-0002-3001

NAME OF SURFACE OWNER/OWNERS: Timothy & Rebecca Clyne

ADDRESS OF PROPERTY: Off Route 18/Blandville, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 14, West Union, WV 26456

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 266/ Page 220

TAX MAP REFERENCE: MAP 3/ Parcel 7

EXISTING BUILDINGS/USES OF PROPERTY: No apparent structures, possible access roads, forested

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown





**Attachment A- Project Location-  
Surface Owner Information**

TAX ID: 09-06-0004-0001-0005-0000

NAME OF SURFACE OWNER/OWNERS: Norma Lee and Dale Kelley

ADDRESS OF PROPERTY: Route 18, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 21, West Union, WV 26456

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 0188/ Page 0723

TAX MAP REFERENCE: MAP 4

EXISTING BUILDINGS/USES OF PROPERTY: Unknown

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT  
PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT  
PROPERTY: Unknown

---

TAX ID: 09-06-0004-0002-0001-0000

NAME OF SURFACE OWNER/OWNERS: Norma Lee and Dale Kelley

ADDRESS OF PROPERTY: Route 18, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 21, West Union, WV 26456

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 0191/ Page 0412

TAX MAP REFERENCE: MAP 4

EXISTING BUILDINGS/USES OF PROPERTY: Unknown

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT  
PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT  
PROPERTY: Unknown



**Attachment A- Project Location-  
Surface Owner Information**

TAX ID: 09-06-0004-0003-0000-0000

NAME OF SURFACE OWNER/OWNERS: Robert C Bland Et Ux

ADDRESS OF PROPERTY: Off Route 18 Elbscamp Run, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 20, West Union, WV 26456

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 196/ Page 186

TAX MAP REFERENCE: MAP 2

EXISTING BUILDINGS/USES OF PROPERTY: Unknown

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT  
PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT  
PROPERTY: Unknown

---

TAX ID: 09-06-0004-0001-0004-0000

NAME OF SURFACE OWNER/OWNERS: Norma Lee and Dale Kelley

ADDRESS OF PROPERTY: Route 18, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 21, West Union, WV 26456

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 0188/ Page 0723

TAX MAP REFERENCE: MAP 1

EXISTING BUILDINGS/USES OF PROPERTY: Unknown

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT  
PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT  
PROPERTY: Unknown



**Attachment A- Project Location-  
Surface Owner Information**

TAX ID: 09-06-0002-0004-0001-0000

NAME OF SURFACE OWNER/OWNERS: Robert C & Arlene Bland

ADDRESS OF PROPERTY: WV Route 18, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 20, West Union, WV 26456

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 262/ Page 143

TAX MAP REFERENCE: MAP 4

EXISTING BUILDINGS/USES OF PROPERTY: Unknown

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT  
PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT  
PROPERTY: Unknown

---

TAX ID: 09-06-0002-0009-0000-0000

NAME OF SURFACE OWNER/OWNERS: Robert C Bland Et Ux

ADDRESS OF PROPERTY: Off Route 18 Elbscamp Run, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 20, West Union, WV 26456

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 196/ Page 186

TAX MAP REFERENCE: MAP 2

EXISTING BUILDINGS/USES OF PROPERTY: Unknown

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT  
PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT  
PROPERTY: Unknown



**Attachment A- Project Location-  
Surface Owner Information**

TAX ID: 09-06-0004-0002-0003-0000

NAME OF SURFACE OWNER/OWNERS: Robert C & Arlene Bland

ADDRESS OF PROPERTY: WV Route 18, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 20, West Union, WV 26456

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 262/ Page 143

TAX MAP REFERENCE: MAP 4

EXISTING BUILDINGS/USES OF PROPERTY: Unknown

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT  
PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT  
PROPERTY: Unknown

---

TAX ID: 09-06-0004-0001-0007-0000

NAME OF SURFACE OWNER/OWNERS: Robert C & Arlene Bland

ADDRESS OF PROPERTY: Off Route 18, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 20, West Union, WV 26456

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 262/ Page 143

TAX MAP REFERENCE: MAP 4

EXISTING BUILDINGS/USES OF PROPERTY: Unknown

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT  
PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT  
PROPERTY: Unknown



**Attachment A- Project Location-  
Surface Owner Information**

TAX ID: 09-06-0002-0006-0000-0000

NAME OF SURFACE OWNER/OWNERS: Robert C & Arlene Bland

ADDRESS OF PROPERTY: Off Route 18/5 Eibscamp Run, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 20, West Union, WV 26456

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 236/ Page 18

TAX MAP REFERENCE: MAP 2

EXISTING BUILDINGS/USES OF PROPERTY: Unknown

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT  
PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT  
PROPERTY: Unknown

---

TAX ID: 09-06-0002-0004-0000-0000

NAME OF SURFACE OWNER/OWNERS: Robert C & Arlene Bland

ADDRESS OF PROPERTY: Off Route 18/5 Hickory Run, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 20, West Union, WV 26456

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 262/ Page 143

TAX MAP REFERENCE: MAP 2

EXISTING BUILDINGS/USES OF PROPERTY: Unknown

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT  
PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT  
PROPERTY: Unknown



**Attachment A- Project Location-  
Surface Owner Information**

TAX ID: 09-03-0019-0031-0000-0000

NAME OF SURFACE OWNER/OWNERS: Dennis and Mellie Powell

ADDRESS OF PROPERTY: Route 50, Salem, WV 26426

ADDRESS OF SURFACE OWNER/OWNERS: 304 Stuart Street, West Union, WV 26456

DISTRICT: Grant

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 200/Page 532

TAX MAP REFERENCE: Map 19

EXISTING BUILDINGS/USES OF PROPERTY: Unknown

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT  
PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT  
PROPERTY: Unknown

---

TAX ID: 09-06-0002-0002-0000-0000

NAME OF SURFACE OWNER/OWNERS: Robert C & Arlene Bland

ADDRESS OF PROPERTY: Off Route 18/5 Douglas Run, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 20, West Union, WV 26456

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 236/ Page 18

TAX MAP REFERENCE: MAP 2

EXISTING BUILDINGS/USES OF PROPERTY: Unknown

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT  
PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT  
PROPERTY: Unknown



**SHERWOOD SOUTH PIPELINE  
STREAM ACTIVITY APPLICATION:  
STREAM CROSSING TABLES**

**Table 1. Stream Crossings by Pipeline Activity**

Stream Field ID	Stream Category	Stream Name or Tributary Of	Project Activity	Type of Crossing	Coordinates (NAD83) (dd)	Width (feet)	Crossing Size (linear feet)
S-G101	Intermittent	UNT Buckeye Creek	Pipeline	Open Cut	39.273938968115, 80.693735534085	2	51
S-1	Perennial	Meathouse Fork	Pipeline	HDD	39.256976084829, 80.712342139369	105	50
S-6	Perennial	Right Hand Fork Lick Run	Pipeline	Open Cut	39.242703227090, 80.728573036809	2	51
S-G53	Ephemeral	UNT Lick Run	Pipeline	Open Cut	39.237554396969, 80.729640308866	1	51
S-G52	Intermittent	UNT Lick Run	Pipeline	Open Cut	39.232581717214, 80.733895101281	7	55
S-G50	Ephemeral	UNT Lick Run	Pipeline	Open Cut	39.227837362842, 80.737920148691	6	64
S-G49	Intermittent	UNT Lick Run	Pipeline	Open Cut	39.223246074954, 80.743942895832	3	53
S-G48	Intermittent	UNT Lick Run	Pipeline	Open Cut	39.223242072742, 80.743950392031	3	90
S-G44	Intermittent	UNT Lick Run	Pipeline	Open Cut	39.220285458317, 80.746423177108	4	66
S-G41	Intermittent	UNT Bluestone Creek	Pipeline	Open Cut	39.211932483654, 80.756141223634	3	63
S-G40	Ephemeral	UNT Bluestone Creek	Pipeline	Open Cut	39.210173602922, 80.756323818985	3	57
S-G39	Ephemeral	UNT Bluestone Creek	Pipeline	Open Cut	39.209878011567, 80.756201995696	3	30



**SHERWOOD SOUTH PIPELINE  
STREAM ACTIVITY APPLICATION:  
STREAM CROSSING TABLES**

Stream Field ID	Stream Category	Stream Name or Tributary Of	Project Activity	Type of Crossing	Coordinates (NAD83) (dd)	Width (feet)	Crossing Size (linear feet)
S-G36	Intermittent	UNT Lick Run	Pipeline	Open Cut	39.206917288370, 80.756358154180	3	50
S-G32	Intermittent	UNT Lick Run	Pipeline	Open Cut	39.206583877587, 80.756618880342	3.5	52
S-G31	Intermittent	UNT Cain Run	Pipeline	Open Cut	39.202775765627, 80.758549171753	3	52
S-G30	Ephemeral	UNT Lick Run	Pipeline	Open Cut	39.202994666755, 80.759414976358	1.5	59
S-CC	Perennial	Cain Run	Pipeline	Open Cut	39.191405803599, 80.762179165847	3	169
S-ZZ	Perennial	South Fork Hughes River	Pipeline	Slick Bore	39.183030293290, 80.766360536989	10	63
S-ZA	Intermittent	UNT South Fork Hughes River	Pipeline	Open Cut	39.177359492105, 80.764347244097	5	54
S-EH	Ephemeral	UNT South Fork Hughes River	Pipeline	Open Cut	39.173917424057, 80.760253726677	1	51

**Table 2. Stream Crossings by Access Road Activity**

Stream Field ID	Stream Category	Stream Name or Tributary Of	Project Activity	Type of Crossing	Coordinates (NAD83) (dd)	Width (feet)	Crossing Size (linear feet)
S-G1	Ephemeral	UNT Meathouse Fork	Access Road	Culvert Replacement	39.273938968115, 80.710464413792	1.5	25
S-AJ9	Intermittent	UNT Lick Run	Access Road	New Culvert	39.256976084829, 80.745612310341	6	35





**SHERWOOD SOUTH PIPELINE  
STREAM ACTIVITY APPLICATION:  
STREAM CROSSING TABLES**

Stream Field ID	Stream Category	Stream Name or Tributary Of	Project Activity	Type of Crossing	Coordinates (NAD83) (dd)	Width (feet)	Crossing Size (linear feet)
S-AJ12	Intermittent	UNT Lick Run	Access Road	New Culvert	39.242703227090, 80.744975587149	2	25
S-AJ9	Intermittent	UNT Lick Run	Access Road	New Culvert	39.237554396969, 80.743679695699	6	40
S-G44	Intermittent	UNT Lick Run	Access Road	New Culvert	39.232581717214, 80.743677506025	4	55

DODDRIDGE COUNTY  
FLOODPLAIN DEVELOPMENT PERMIT APPLICATION

SECTION 1: GENERAL PROVISIONS (APPLICANT TO READ AND SIGN)

1. No work may start until a permit is issued.
2. The permit may be revoked if any false statements are made herein.
3. If revoked, all work must cease until permit is re-issued.
4. Development shall not be used or occupied until a Certificate of Compliance is issued.
5. The permit will expire if no work is commenced within six months of issuance.
6. Applicant is hereby informed that other permits may be required to fulfill local, state, and federal requirements.
7. Applicant hereby gives consent to the Floodplain Administrator/Manager or his/her representative to make inspections to verify compliance.
8. I THE APPLICANT CERTIFY THAT ALL STATEMENTS HEREIN AND IN ATTACHMENTS TO THIS APPLICATION ARE, TO THE BEST OF MY KNOWLEDGE, TRUE AND ACCURATE.

APPLICANT'S SIGNATURE

*[Signature]* For CESO, Inc

DATE

09/24/2014

SECTION 2: PROPOSED DEVELOPMENT (TO BE COMPLETED BY APPLICANT).

IF THE APPLICANT IS NOT A NATURAL PERSON, THE NAME, ADDRESS, AND TELEPHONE NUMBER OF A NATURAL PERSON WHO SHALL BE APPOINTED BY THE APPLICANT TO RECEIVE NOTICE PURSUANT TO ANY PROVISION OF THE CURRENT DODDRIDGE COUNTY FLOODPLAIN ORDINANCE.

APPLICANT'S NAME: Cone Gathering, LLC

ADDRESS: c/o Adam White, One Energy Drive PO Box 1248 Jane Lew, WV 26378

TELEPHONE NUMBER: 724.627.1300

CONTRACTOR NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

TELEPHONE # \_\_\_\_\_

WV CONTRACTOR LICENCE # \_\_\_\_\_

ENGINEER'S NAME: CESO, Inc.

ADDRESS: 2800 Corporate Exchange Drive, Suite 160, Columbus, OH 43231

TELEPHONE NUMBER: 614.794.7080

PROJECT LOCATION:

NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Please see Attachment A.

ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Please see Attachment A.

DISTRICT: Please see Attachment A.

LAND BOOK DESCRIPTION: Please see Attachment A.

DEED BOOK REFERENCE: Please see Attachment A.

TAX MAP REFERENCE: Please see Attachment A.

EXISTING BUILDINGS/USES OF PROPERTY: Please see Attachment A.

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY Please see Attachment A.

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY Please see Attachment A.

To avoid delay in processing the application, please provide enough information to easily identify the project location.

The proposed pipeline gathering system will extend across portions of south-central Doddridge County, West Virginia. The proposed project will begin at the OX11 natural gas well pad near 39.171128 N Latitude, 80.762683 W Longitude (NAD83), which lies south of Porto Rico, West Virginia. The project starting location is bordered on the east by County Route 40. The proposed pipeline traverses in a general north and northeasterly direction, bisecting South Fork of Hughes River Road approximately 1.1 miles from its starting location and continues north-northeasterly crossing numerous County Roads and State Route 18, prior to reaching its terminus near Sherwood, West Virginia; south of State Route 50 at 39.273142 N Latitude, 80.689713 W Longitude (NAD83). The proposed new gathering line will be approximately 10.64 miles long, connecting the OX11 well pad to the Sherwood processing facility, which is under construction. A 16-inch gas line, a 20-inch gas line, a 16-inch water line, and a 12-inch water line (located north of Meathouse Fork only) will run in the proposed alignment.

**DESCRIPTION OF WORK (CHECK ALL APPLICABLE BOXES)**

**A. STRUCTURAL DEVELOPMENT**

ACTIVITY	STRUCTURAL TYPE
<input type="checkbox"/> New Structure	<input type="checkbox"/> Residential (1 – 4 Family)
<input type="checkbox"/> Addition	<input type="checkbox"/> Residential (more than 4 Family)
<input type="checkbox"/> Alteration	<input type="checkbox"/> Non-residential (floodproofing)
<input type="checkbox"/> Relocation	<input type="checkbox"/> Combined Use (res. & com.)
<input type="checkbox"/> Demolition	<input type="checkbox"/> Replacement
<input type="checkbox"/> Manufactured/Mobil Home	

**B. OTHER DEVELOPMENT ACTIVITIES:**

- Fill                       Mining                       Drilling                       Pipelining
- Grading
- Excavation (except for STRUCTURAL DEVELOPMENT checked above)
- Watercourse Alteration (including dredging and channel modification)
- Drainage Improvements (including culvert work)
- Road, Street, or Bridge Construction
- Subdivision (including new expansion)
- Individual Water or Sewer System
- Other (please specify)
- 

**C. STANDARD SITE PLAN OR SKETCH**

1. SUBMIT ALL STANDARD SITE PLANS, IF ANY HAVE BEEN PREPARED (ENGINEERING PLANS MUST BE SIGNED AND SEALED).

2. IF STANDARD SITE PLANS HAVE NOT BEEN PREPARED:

SKETCH ON A SEPARATE 8 ½ X 11 INCH SHEET OF PAPER THE SHAPE AND LOCATION OF THE LOT. SHOW THE LOCATION OF THE INTENDED CONSTRUCTION OR LAND USE INDICATING BUILDING SETBACKS, SIZE & HEIGHT. IDENTIFY EXISTING BUILDINGS, STRUCTURES OR LAND USES ON THE PROPERTY.

3. SIGN AND DATE THE SKETCH. Please see Attachment B and Attachment C.

ACTUAL TOTAL CONSTRUCTION COSTS OF THE COMPLETE DEVELOPMENT/ PROPOSED CONSTRUCTION PROJECT WITHIN THE FLOODPLAIN \$ 436,110.00 (See Attachment D for calculations)

D. ADJACENT AND/OR AFFECTED LANDOWNERS:

1. NAME AND ADDRESS OF ALL OWNERS OF SURFACE TRACTS ADJACENT TO THE AREA OF THE SURFACE TRACT (UP & DOWN STREAM) UPON WHICH THE PROPOSED ACTIVITY WILL OCCUR AND ALL OTHER SURFACE OWNERS UP & DOWN STREAM) WHO OWN PROPERTY THAT MAY BE AFFECTED BY FLOODING AS IS DEMONSTRATED BY A FLOODPLAIN STUDY OR SURVEY (IF ONE HAS BEEN COMPLETED.

NAME: Please see Attachment E.  
ADDRESS: Please see Attachment E.

NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_

NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_

NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_

1. NAME AND ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON ANY ADJACENT PROPERTY AT THE TIME THE FLOODPLAIN PERMIT APPLICATION IS FILED AND THE NAME AND ADDRESS OF AT LEAST ONE ADULT RESIDING IN ANY HOME ON ANY PROPERTY THAT MAY BE AFFECTED BY FLOODING AS IS DEMONSTRATED BY A FLOODPLAIN STUDY OR SURVEY.

NAME: Refer to Attachment E.  
ADDRESS: \_\_\_\_\_

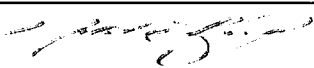
NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_

E. CONFIRMATION FORM

THE APPLICANT ACKNOWLEDGES, AGREES, AND CONFIRMS THAT HE/IT WILL PAY WITHIN 30 DAYS OF RECEIPT OF INVOICE BY THE COUNTY FOR ALL EXPENSES RELATIVE TO THE PERMIT APPLICATION PROCESS GREATER THAN THE REQUIRED DEPOSIT FOR EXPENSES INCLUDING:

- (A) PERSONAL SERVICE OF PROCESS BY THE DODDRIDGE COUNTY SHERIFF AT THE RATES PERMITTED BY LAW FOR SUCH SERVICE.
- (B) SERVICE BY CERTIFIED MAIL RETURN RECEIPT REQUESTED.
- (C) PUBLICATION.
- (D) COURT REPORTING SERVICES AT ANY HEARINGS REQUESTED BY THE APPLICANT.
- (E) CONSULTANTS AND/OR HEARING EXPERTS UTILIZED BY DODDRIDGE COUNTY FLOODPLAIN ADMINISTRATOR/MANAGER OR FLOODPLAIN APPEALS BOARD FOR REVIEW OF MATERIALS AND/OR TESTIMONY REGARDING THE EFFICACY OF GRANTING OR DENYING THE APPLICANT'S FLOODPLAIN PERMIT.

NAME (PRINT): Natalie Hooton for CESO, Inc

SIGNATURE: 

DATE: 09/24/14

After completing SECTION 2, APPLICANT should submit form and fees to Clerk of Doddridge County Court or his/her representative for review.

SECTION 3: FLOODPLAIN DETERMINATION (to be completed by Floodplain Administrator/Manager or his/her representative)

THE PROPOSED DEVELOPMENT:

THE PROPOSED DEVELOPMENT IS LOCATED ON:

FIRM Panel: \_\_\_\_\_  
Dated: \_\_\_\_\_

Is NOT located in a Specific Flood Hazard Area (Notify applicant that the application review is complete and NO FLOODPLAIN DEVELOPMENT PERMIT IS REQUIRED).

Is located in Special Flood Hazard Area.  
FIRM zone designation \_\_\_\_\_  
100-Year flood elevation is \_\_\_\_\_ NGVD .  
Stream name \_\_\_\_\_  
Profile # \_\_\_\_\_

Unavailable

The proposed development is located in a floodway.

See section 4 for additional instructions.

SIGNED \_\_\_\_\_ DATE \_\_\_\_\_

SECTION 4: ADDITIONAL INFORMATION REQUIRED FOR DEVELOPMENT IN SPECIAL FLOOD HAZARD AREA (To be completed by Floodplain Administrator/Manager or his/her representative)

The applicant must submit the documents checked below before the application can be processed.

A plan showing the location of all existing structures, water bodies, adjacent roads and proposed development.

Development plans, drawn to scale, and specifications, including where applicable: details for anchoring structures, storage tanks, proposed elevation of lowest floor, (including basement or crawl space), types of water resistant materials used below the first floor, details of flood proofing of utilities located below the first floor and details of enclosures below the first floor.

Also \_\_\_\_\_

Subdivision or other development plans (If the subdivision or development exceeds 10 lots or 2 acres, whichever is the lesser, the applicant must provide 100-year flood elevations if they are not otherwise available).

- Plans showing the extent of watercourse relocation and/or landform alterations.
- Top of new fill elevation \_\_\_\_\_ Ft. NGVD.  
For floodproofing structures applicant must attach certification from registered engineer or architect.
- Certification from a registered engineer that the proposed activity in a regulatory floodway will not result in any increase in the height of the 100-year flood. A copy of all data and calculations supporting this finding must also be submitted.
- Manufactured homes located in a Flood Hazard Area must have a West Virginia Contractor's License and a Manufactured Home Installation License as required by the Federal Emergency Management Agency (FEMA).
- Other: \_\_\_\_\_

**SECTION 5: PERMIT DETERMINATION (To be completed by Floodplain Administrator/Manager or his/her representative)**

I have determined that the proposed activity (type is or is not) in conformance with provisions of the Floodplain Ordinance adopted by the County Commission of Doddridge County on May 21, 2013. The permit is issued subject to the conditions attached to and made part of this permit.

SIGNED \_\_\_\_\_ DATE \_\_\_\_\_

If the Floodplain Administrator/Manager found that the above was not in conformance with the provisions of the Doddridge County Floodplain Ordinance and/or denied that application, the applicant may appeal.

APPEALS:      Appealed to the County Commission of Doddridge County?       Yes     No  
                   Hearing Date: \_\_\_\_\_  
                   County Commission Decision - Approved       Yes     No

CONDITIONS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**SECTION 6: AS-BUILT ELEVATIONS (To be submitted by APPLICANT before Certificate of Compliance is issued).**

The following information must be provided for project structures. This section must be completed by a registered professional engineer or a licensed land surveyor (or attach a certification to this application).

**COMPLETE 1 OR 2 BELOW:**

- 1      Actual (As-Built) Elevation of the top of the lowest floor (including basement or crawl space is \_\_\_\_\_ FT. NGVD.
- 2      Actual (As Built) elevation of floodproofing is \_\_\_\_\_ FT. NGVD.

Note: Any work performed prior to submittal of the above information is at risk of the applicant.  
SECTION 7: COMPLIANCE ACTION (To be completed by the Floodplain Administrator/Manager or his/her representative).

The Floodplain Administrator/Manager or his/her representative will complete this section as applicable based on inspection of the project to ensure compliance with the Doddridge County Floodplain Ordinance.

INSPECTIONS:

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
DEFICIENCIES ? Y/N

COMMENTS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SECTION 8: CERTIFICATE OF COMPLIANCE (To be completed by Floodplain Administrator/Manager or his/her representative).

Certificate of Compliance issued: DATE: \_\_\_\_\_ BY: \_\_\_\_\_

CERTIFICATE OF COMPLIANCE  
FOR DEVELOPMENT IN SPECIAL FLOOD HAZARD AREA (OWNER MUST RETAIN)

PERMIT NUMBER: \_\_\_\_\_  
PERMIT DATE: \_\_\_\_\_

PURPOSE –

CONSTRUCTION LOCATION: \_\_\_\_\_

OWNER'S ADDRESS: \_\_\_\_\_

STATE OF WEST VIRGINIA,  
COUNTY OF DODDRIDGE, TO WIT

I, Virginia Nicholson, Editor of THE  
HERALD RECORD, a weekly newspaper  
published regularly, in Doddridge County,  
West Virginia, Do Hereby Certify  
That the Accompanying Legal Notice  
Entitled:

*Floodplain Permit*  
*#14-290*

was published in said paper for *1*

successive weeks beginning with the issue  
of *October 7<sup>th</sup>* 2014 and  
ending with the issue of

*2014* and

that said notice contains *189*

WORD SPACE at *115* cents a word

amounts to the sum of \$ *21.74*

FOR FIRST PUBLICATION, SECOND  
PUBLICATION IS 75% OF THE FIRST  
PUBLICATION

\$ .....  
and each publication thereafter

\$ *21.74* ..... TOTAL

EDITOR  
*Virginia Nicholson*

SWORN TO AND SUBSCRIBED  
BEFORE ME THIS THE *10<sup>th</sup>* DAY  
OF *October* 2014

NOTARY PUBLIC  
*Laura J Adams*



LEGAL ADVERTISEMENT  
Doddridge County  
Floodplain Permit Application  
Please take notice that on the 29th day of September  
2014, Cone Gathering, LLC filed an application for a  
Floodplain Permit to develop land located at or about  
Grain Mill Coon/Southwest District  
39.171128N/80.762683W to 39.273142N/80.689713W  
Permit #14-290 Sherwood South Pipeline. The Application  
is on file with the Clerk of the County Court and may be  
inspected or copied during regular business hours. Any  
interested persons who desire to comment shall present  
the same in writing by October 27, 2014.  
Delivered to the:  
Clerk of the County Court  
118 E. Court Street, West Union, WV 26456  
Beth A. Rogers, Doddridge County Clerk  
Edwin L. "Bo" Wriston, Doddridge County Flood Plain  
Manager  
10-7-2xb



STATE OF WEST VIRGINIA,  
COUNTY OF DODDRIDGE, TO WIT

I, Virginia Nicholson, Editor of THE  
HERALD RECORD, a weekly newspaper  
published regularly, in Doddridge County,  
West Virginia, Do Hereby Certify  
That the Accompanying Legal Notice  
Entitled:

*Floodplain Permit*  
*# 14-290*

was published in said paper for ... *2* ...

successive weeks beginning with the issue  
of ... *October 14<sup>th</sup>* ... 2014 and  
ending with the issue of

... *October 21<sup>st</sup>* ... 2014 and

that said notice contains ... *189* ...

WORD SPACE at ... *115* ... cents a word

amounts to the sum of \$ ... *21.74* ...

FOR FIRST PUBLICATION, SECOND  
PUBLICATION IS 75% OF THE FIRST  
PUBLICATION

\$ *16.31* ...

and each publication thereafter

\$ *38.05* ... TOTAL

EDITOR

*Virginia Nicholson*

SWORN TO AND SUBSCRIBED

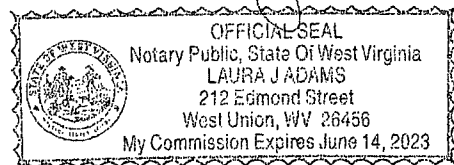
BEFORE ME THIS THE ... *23<sup>rd</sup>* ... DAY

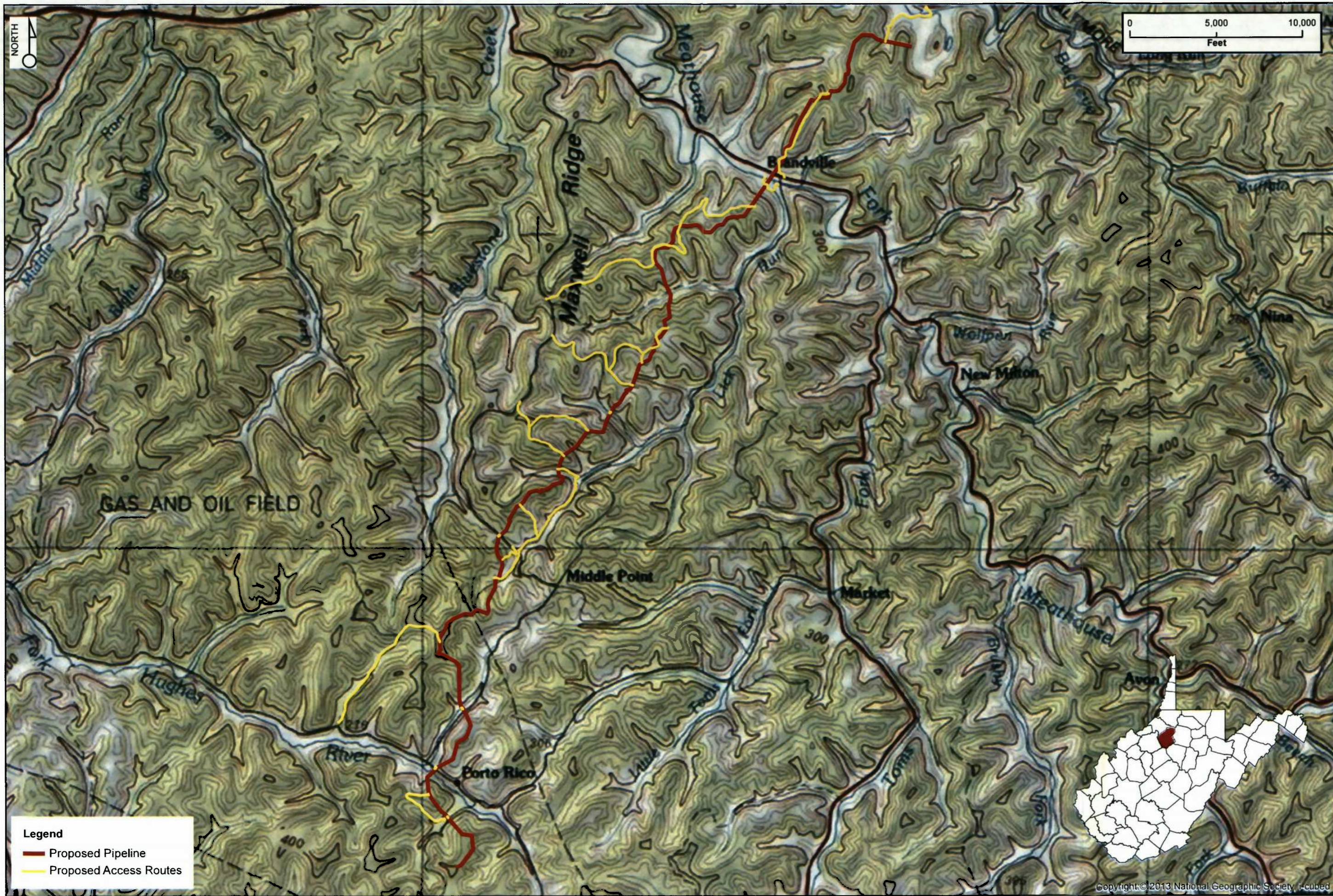
OF ... *October* ... 2014

NOTARY PUBLIC

*Laura J Adams*

LEGAL ADVERTISEMENT  
Doddridge County  
Floodplain Permit Application  
Please take notice that on the 29th day of September,  
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Grant/N. Co. Millton/Southwest District  
39.171128N/80.762683W to 39.273142N/80.689713W  
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the same in writing by November 6, 2014.  
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118 E. Court Street, West Union, WV 26456  
Beth A. Rogers, Doddridge County Clerk  
Edwin L. "Bo" Wriston, Doddridge County Floodplain  
Manager  
10-14-2014





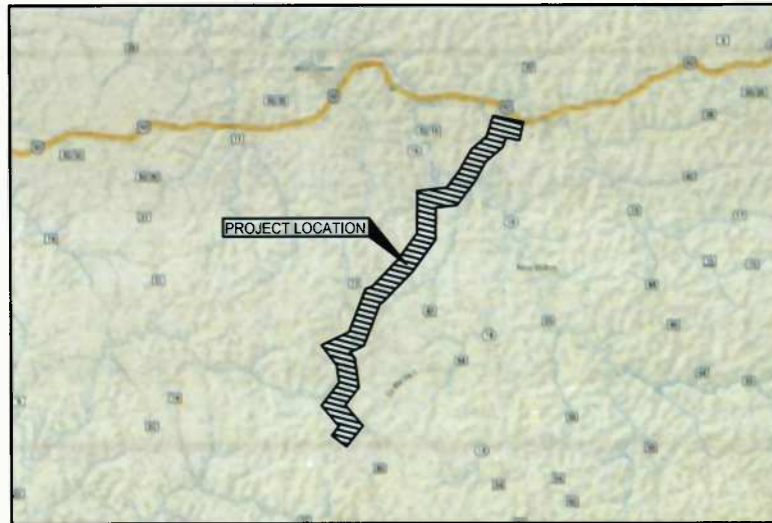
### Sherwood South Pipeline

Location Map (Oxford, Smithburg, and New Milton, WV Quads)  
 Grant, New Milton, and Southwest Districts  
 Doddridge County, West Virginia



Date: 09/02/14  
 By: N. Hooton

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VICINITY MAP  
NOT TO SCALE

# SHERWOOD SOUTH PIPELINE

DODDRIDGE COUNTY

WEST VIRGINIA



APPROX. START POINT: STA 0+00  
(NAD 83) LAT: 39.273282 N / LONG: 80.689736 W  
(UTM) (ZONE 17) NORTHING: 283880.57 / EASTING: 1631696.89

APPROX. END POINT: STA 558+86  
(NAD 83) LAT: 39.170959 N / LONG: 80.762926 W  
(UTM) (ZONE 17) NORTHING: 246898.71 / EASTING: 1610454.96

**NOTES:**

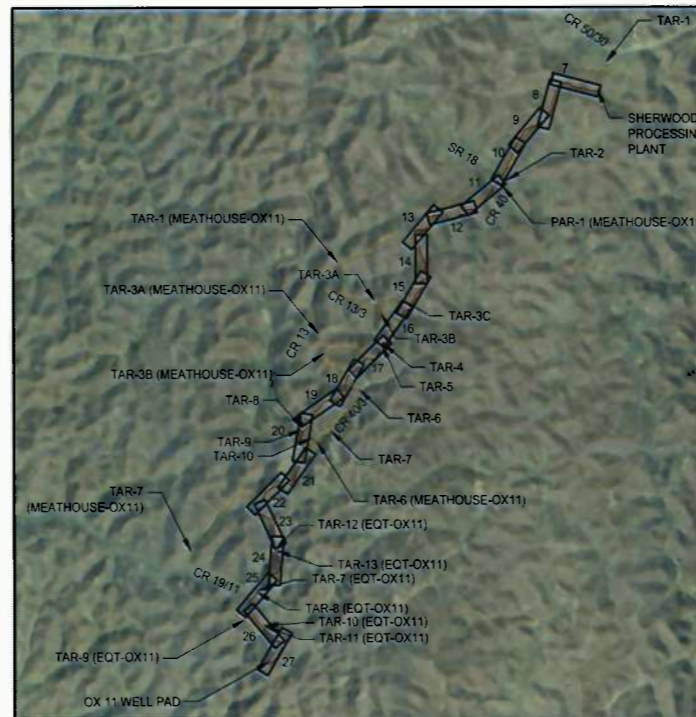
- THIS PLAN DOES NOT PURPORT TO BE A COMPREHENSIVE REPRESENTATION OF EXISTING UTILITIES IN THE PROJECT AREA. UTILITIES SHOWN ARE BEING PROVIDED FOR INFORMATIONAL PURPOSES ONLY, BASED ON SURFACE FEATURES OBSERVED IN THE FIELD. CESO, INC. MAKES NO GUARANTEE TO THEIR ACCURACY AND/OR COMPLETENESS. FORTY-EIGHT (48) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE STATEWIDE ONE CALL SYSTEM, MISS UTILITY OF WEST VIRGINIA, INC. (WV811) AT 1-800-245-4848. THE CONTRACTOR SHALL ALSO NOTIFY ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES IN THE PROJECT AREA AND ARE NON-MEMBERS OF WV811.
- QUANTITIES LISTED ARE BASED ON SLOPE LENGTH. CONTRACTOR SHALL VERIFY ALL QUANTITIES.

**ASSOCIATED WVDEP PERMITS:**

- EQT-OX11 PIPELINE - PERMIT # WVR310344
- MEATHOUSE-OX11 WATERLINE - PERMIT # WVR310356

**DRAWING INDEX**

DESCRIPTION	SHEET NUMBER
COVER SHEET	1
SWPPP NOTES	2-3
SWPPP DETAILS	4-6
PIPELINE PLAN	7-27
ROAD CROSSING DETAILS	28-30
HDD PLAN AND PROFILE	31
SLICK BORE PLAN AND PROFILE	32
ACCESS ROADS PLAN AND PROFILE	33-58
EROSION AND SEDIMENT CONTROL TABLES	59
EARTHWORK AND QUANTITIES	60



PROJECT AREA MAP



**VERTICAL DATUM NOTE**

VERTICAL CONTROL IS BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1983 (NAVD 83).

**PLAN REPRODUCTION WARNING**

THE PLANS HAVE BEEN CREATED ON ANSI D (22" x 34") SHEETS. FOR REDUCTIONS, REFER TO GRAPHIC SCALE.

THE PLANS HAVE BEEN CREATED FOR FULL COLOR PLOTTING. ANY SET OF THE PLANS THAT IS NOT PLOTTED IN FULL COLOR SHALL NOT BE CONSIDERED ADEQUATE FOR CONSTRUCTION PURPOSES.

\*\*WARNING\*\* INFORMATION MAY BE LOST IN COPYING AND/OR GRAY SCALE PLOTTING.

**UTILITY OWNERS**

- NOTES:
- CONTRACTOR SHALL CALL THE STATEWIDE ONE CALL SYSTEM, MISS UTILITY OF WEST VIRGINIA, INC. (WV811) AT 1-800-245-4848 72 HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.
  - UTILITIES SHOWN ARE TAKEN FROM THE SURVEY AND RECORDS OF RESPECTIVE UTILITY COMPANIES AND DO NOT NECESSARILY REPRESENT ALL UNDERGROUND UTILITIES ADJACENT TO OR UPON SITE SHOWN ON PLAN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREIN OR NOT AND TO PROTECT THEM FROM DAMAGE.

<b>CONSOL ENERGY</b> ONE ENERGY DRIVE JANE LEW, WV 26378 ADAM WHITE 240-506-7299 AdamWhite@consolenergy.com	<b>DOMINION TRANSMISSION</b> 445 W MAIN STREET CLARKSBURG, WV 26301 STEVEN D. GUM 304-782-5024 Steven.D.Gum@dom.com	<b>EQT</b> P.O. BOX 1550 ROUTE 19 SOUTH AT OAKMOUND RD CLARKSBURG, WV 26301 304-624-9527
<b>ECA / EAE</b> 501 58th STREET SOUTH EAST CHARLESTON, WV 25304 RICK JETT 304-678-7446 rjett@eca.com	<b>ARMSTRONG TELEPHONE</b> 600 EAST NORTH STREET HARRISVILLE, WV 26362 ROGER RIGGS 304-643-2925 riggs@aqoc.com	<b>ANTERO RESOURCES</b> 981 E WASHINGTON AVE ELLENBORO, WV 26346 304-859-3405 RYAN BAKER RBAKER@ANTERORESOURCES.COM
<b>KEY OIL COMPANY</b> 22 GARTON PLAZA WESTON, WV 304-269-7102	<b>PENNZOIL</b> 1-800-344-6601	<b>RUBIN RESOURCES</b> 1007 BRIDGE RD #C CHARLESTON, WV 25314 304-342-1205



APPROVED BY CONE GATHERING:

REPRESENTATIVE \_\_\_\_\_ DATE \_\_\_\_\_

<b>IFC</b>  08/29/2014 DATE _____	<b>SUMMARY OF MATERIALS</b> <table border="1"> <thead> <tr> <th>MRKR #</th> <th>QTY.</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>56,127 LF</td> <td>PIPELINE (SLOPE LENGTH)</td> </tr> <tr> <td>2</td> <td>180 EA</td> <td>Elbow, 45° Staggerable Fitting</td> </tr> <tr> <td>3</td> <td>1536 LF</td> <td>BORDED PIPELINE (SLOPE LENGTH)</td> </tr> <tr> <td>4</td> <td>40 EA</td> <td>PIPELINE MARKER</td> </tr> </tbody> </table>	MRKR #	QTY.	DESCRIPTION	1	56,127 LF	PIPELINE (SLOPE LENGTH)	2	180 EA	Elbow, 45° Staggerable Fitting	3	1536 LF	BORDED PIPELINE (SLOPE LENGTH)	4	40 EA	PIPELINE MARKER	<b>REFERENCE DRAWINGS</b> <table border="1"> <thead> <tr> <th>DWG.</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	DWG.	DESCRIPTION							<b>REVISIONS</b> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>08/29/14</td> <td>REVISED PER CONE COMMENTS</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DATE	DESCRIPTION	1	08/29/14	REVISED PER CONE COMMENTS								<b>SHERWOOD SOUTH PIPELINE</b>  <b>COVER SHEET</b>  STATION(S): N/A	  ONE ENERGY DRIVE JANE LEW, WV 26378	DATE: 08/29/2014 JOB NO.: 90126 DESIGN: BEM DRAWN: BEM CHECKED: BJM SHEET NO.: 1 of 60
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**CONTRACTOR NOTES**

- THIS PLAN DOES NOT PURPORT TO BE A COMPREHENSIVE REPRESENTATION OF EXISTING UTILITIES IN THE PROJECT AREA. UTILITIES SHOWN ARE BEING PROVIDED FOR INFORMATIONAL PURPOSES ONLY, BASED ON SURFACE FEATURES OBSERVED IN THE FIELD. CESO, INC. MAKES NO GUARANTEE TO THEIR ACCURACY AND/OR COMPLETENESS. FORTY-EIGHT (48) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE STATEWIDE ONE CALL SYSTEM, MISS UTILITY OF WEST VIRGINIA, INC. (WV811) AT 1-800-245-4848. THE CONTRACTOR SHALL ALSO NOTIFY ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES IN THE PROJECT AREA AND ARE NON-MEMBERS OF WV811.
- ALL CONTRACTORS/SUBCONTRACTORS PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE THEMSELVES WITH THE SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM THEIR OPERATIONS. SAID EXISTING IMPROVEMENTS SHALL INCLUDE, BUT NOT BE LIMITED TO, BERMS, DITCHES, FENCES AND PLANTS. ANY REMOVAL OR DAMAGE TO EXISTING IMPROVEMENTS SHALL BE REPLACED OR REPAIRED BY THE CONTRACTORS TO EXISTING OR BETTER CONDITIONS, AT THEIR EXPENSE, AND SHALL BE APPROVED BY THE OWNER.
- ALL CONSTRUCTION, TESTING AND MATERIALS SHALL MEET OR EXCEED ALL REQUIREMENTS OF THE "PERMITTING ENTITY" AND LOCAL, STATE AND FEDERAL REGULATIONS.
- ALL NECESSARY TESTING SHALL BE PERFORMED BY AN APPROVED LABORATORY AT THE EXPENSE OF THE CONTRACTOR.
- PRIOR TO CONSTRUCTION, ALL CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS AND ALL OTHER NECESSARY DETAILS AND SPECIFICATIONS RELEVANT TO THE PROPER COMPLETION OF THE WORK SPECIFIED. FAILURE ON THE PART OF THE CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL STANDARDS OR SPECIFICATIONS PERTAINING TO THIS WORK SHALL IN NO WAY RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PERFORMING THE WORK IN ACCORDANCE WITH ALL SUCH APPLICABLE STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL HAVE IN THEIR POSSESSION, PRIOR TO CONSTRUCTION, ALL NECESSARY PERMITS, LICENSES, BONDS, INSURANCE, ETC. CONTRACTORS SHALL EACH HAVE AT LEAST ONE SET OF APPROVED ENGINEERING PLANS AND SPECIFICATIONS ON-SITE AT ALL TIMES.
- IN THE EVENT THAT AN ITEM IS NOT SPECIFICALLY COVERED IN THE PERTINENT AGENCIES CONSTRUCTION STANDARDS AND SPECIFICATIONS AND DETAILS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND PROJECT ENGINEER. THE OWNER SHALL HAVE THE FINAL DECISION ON ALL CONSTRUCTION MATERIALS, METHODS AND PROCEDURES.
- THE CONTRACTORS MUST CONFINE THEIR ACTIVITIES TO THE WORK AREA AS SHOWN ON THE PLANS. NO ENCROACHMENTS OUTSIDE OF THE SPECIFIED AREAS SHALL BE ALLOWED. ANY DAMAGE RESULTING THERE FROM SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR.
- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING PUBLIC AND PRIVATE UTILITIES THROUGHOUT THE CONSTRUCTION OF THE PROJECT. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES OR LINE LOCATION SERVICES PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL ASSUME FULL LIABILITY TO THOSE COMPANIES FOR ANY DAMAGES CAUSED TO THEIR FACILITIES.
- TRENCH BEDDING SHALL BE AS PER WVDOH CONSTRUCTION AND MATERIAL SPECIFICATIONS, LATEST EDITION.
- TOP OF NATURAL GAS PIPELINE SHALL BE A MINIMUM OF 3'-0" BELOW THE FINISHED GROUND ELEVATION IN ALL VEGETATED AREAS, EXCEPT IN AGRICULTURAL FIELDS, WHICH THE DEPTH SHALL BE 4'-0". MINIMUM BURY UNDER ROADWAYS AND OTHER PAVED AREAS SHALL BE PER THE PERMITTING AUTHORITIES SPECIFICATIONS AND THE ASSOCIATED PERMIT & DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH STANDARD TRENCH SAFETY GUIDELINES AND THE U.S. DEPARTMENT OF LABOR AND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS.
- THESE PLANS DO NOT CONSTITUTE A BOUNDARY SURVEY. BOUNDARY LINES AS SHOWN HEREON ARE BASED ON TAX MAPS AS PROVIDED BY OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION TO THE PROJECT MANAGER FOR ANY DEVIATION FOUND RELATIVE TO THE PROJECT.
- EXISTING EASEMENTS AND/OR RIGHT-OF-WAYS WERE NOT RESEARCHED AND SURVEYED DURING THIS PROJECT, OTHER THAN THOSE SHOWN WITHIN THE PLANS.
- FENCE LINES ENCOUNTERED DURING CONSTRUCTION SHOULD BE RELOCATED AND REPLACED PER LANDOWNER AND OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE GOVERNING AUTHORITIES PRIOR TO ALL ROAD CROSSINGS. MAINTENANCE OF TRAFFIC IS TO BE IMPLEMENTED AS NECESSARY TO ENSURE THAT THE ROAD HAS CONTINUAL ACCESS. MAINTENANCE OF TRAFFIC SHALL BE PER THE LATEST EDITION OF THE WVDOH TEMPORARY TRAFFIC CONTROL FOR STREETS AND HIGHWAYS MANUAL.

**GENERAL CONSTRUCTION SEQUENCE**

THE PIPELINE PROJECT CONSISTS OF ONE GENERAL CONSTRUCTION PHASE. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND THE WEST VIRGINIA DEPARTMENT OF NATURAL RESOURCES (WVONR) AND WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP) EROSION AND SEDIMENT CONTROL FIELD MANUAL.

THE CONSTRUCTION SEQUENCE IS INTENDED AS A GENERAL COURSE OF ACTION TO COMPLY WITH WVONR AND WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP) EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL MEASURES NECESSARY TO MEET APPLICABLE RULES AND REGULATIONS ARE INSTALLED. MEASURES AS SHOWN ON THESE PLANS MAY BE ALTERED TO BETTER MEET SITE SPECIFIC CONDITIONS AT THE DISCRETION OF THE CONTRACTOR.

BMP DETAILS AND CONSTRUCTION SPECIFICATIONS CAN BE FOUND ON THE STANDARD DETAIL SHEETS.

- A COPY OF THE FOR CONSTRUCTION PLANS MUST BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES.
- AT LEAST THREE DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITY, ALL CONTRACTORS INVOLVED IN THESE ACTIVITIES SHALL NOTIFY THE WEST VIRGINIA ONE CALL SYSTEM BEFORE STARTING ANY CONSTRUCTION ACTIVITIES.
- PRIOR TO COMMENCEMENT OF ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, CONTRACTOR SHALL CLEARLY DELINEATE SENSITIVE AREAS, RIPARIAN FOREST BUFFER BOUNDARIES, THE LIMITS OF CLEARING, AND TREES THAT ARE TO BE CONSERVED WITHIN THE PROJECT SITE, AND INSTALL APPROPRIATE BARRIERS WHERE EQUIPMENT MAY NOT BE PARKED, STAGED, OPERATED OR LOCATED FOR ANY PURPOSE. APPROPRIATE BMPs SHOULD BE INSTALLED AND FUNCTIONING.
- CONSTRUCTION FENCE SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS. CONSTRUCTION FENCE SHALL BE CHECKED REGULARLY FOR WEATHER RELATED OR OTHER DAMAGE. ANY NECESSARY REPAIRS SHALL BE MADE IMMEDIATELY.
- INSTALLATION OF STONE CONSTRUCTION ENTRANCES AT ALL ACCESS LOCATIONS SHALL BE THE FIRST STEP OF CONSTRUCTION AND SHALL BE FOLLOWED BY INSTALLATION OF BMPs FOR ALL AREAS DESIGNATED FOR EQUIPMENT AND MATERIAL STAGING.
- INSTALL ROCK CHECK DAMS AT LOCATIONS SHOWN ON THE PLANS. INSPECT EACH CHECK DAM AT A MINIMUM ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES OF RAIN PER 24 HOUR PERIODS. CHECK TO SEE IF WATER HAS FLOWED AROUND THE EDGE OF THE STRUCTURE. REPLACE STONE AND REPAIR DAM AS NECESSARY TO MAINTAIN THE CORRECT HEIGHT AND CONFIGURATION. SEDIMENT SHALL BE REMOVED FROM BEHIND THE CHECK DAMS WHEN IT HAS ACCUMULATED TO ONE HALF OF THE ORIGINAL HEIGHT OF THE DAM.
- INSTALL PERIMETER BMPs (SILT FENCING OR FILTER SOCKS) WHERE NECESSARY ALONG CLEARING AND GRUBBING BOUNDARIES.
- BEGIN LAND CLEARING AND GRADING (IF NECESSARY) ONLY AFTER ALL DOWNSLOPE BMPs HAVE BEEN INSTALLED. IF POSSIBLE, MINIMIZE CLEARING AND GRADING AT STREAM CROSSINGS UNTIL THE TIME OF CROSSING.
- APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY TO ANY DISTURBED AREAS WHERE WORK HAS REACHED FINAL GRADE, HAS BEEN DELAYED OR OTHERWISE TEMPORARILY SUSPENDED.
- INSTALL TEMPORARY WATERBARS AT LOCATIONS SHOWN ON THE DRAWINGS. WATERBARS WILL BE INSTALLED WITH FILTER SOCKS AT THE DISCHARGE TO HELP CONTROL THE VOLUME AND SPEED OF STORMWATER.
- INSTALL BMPs FOR TEMPORARY ROAD CROSSINGS OF WETLANDS AND WATER BODIES WITHIN THE PIPELINE ROW AS NECESSARY. FOLLOW STREAM AND WETLAND CROSSING DETAILS FOR ACCESS ROAD CROSSINGS OF THESE FEATURES. FILTER SOCKS SHALL BE USED AT ALL STREAM CROSSINGS. SEE STREAM CROSSING PROCEDURES AND WETLAND CROSSING PROCEDURES FOR ADDITIONAL INFORMATION ON WATER BODY AND WETLAND CROSSINGS.
- CONSTRUCTION OF UTILITIES (INSTALL NATURAL GAS PIPELINE), WHEN TRENCH EXCAVATION TAKES PLACE IN AN AGRICULTURAL, WETLAND, OR RESIDENTIAL AREA, THEN SEGREGATION OF TOPSOIL AND SUBSOIL WILL BE PERFORMED. PLACE TRENCH PLUGS AT THE REQUIRED SPACING DURING UTILITY INSTALLATION. FOLLOW STREAM AND WETLAND CROSSING DETAILS LOCATED ON THE EROSION AND SEDIMENT CONTROL DRAWINGS FOR UTILITY CROSSINGS OF THESE FEATURES. SEE STREAM CROSSING PROCEDURES AND WETLAND CROSSING PROCEDURES FOR ADDITIONAL INFORMATION ON WATER BODY AND WETLAND CROSSING. DURING CONSTRUCTION, INSTALL AND MAINTAIN ANY ADDITIONAL EROSION AND SEDIMENT CONTROL BMPs AND IMPLEMENT STRUCTURAL POST CONSTRUCTION STORMWATER BMPs (PERMANENT WATERBARS) THAT MAY BE REQUIRED. SEE UTILITY LINE INSTALLATION REQUIREMENTS NOTES FOR LIMITS OF WORK.
- ANY WATER ENCOUNTERED WITHIN THE EXCAVATION AREAS DURING CONSTRUCTION SHALL BE REMOVED BY USING PUMPS, HOSES, AND PUMPED WATER FILTER BAGS WHICH SHALL BE DISCHARGED INTO UNDISTURBED WELL-VEGETATED UPLAND AREAS.
- BACKFILL AREAS EXCAVATED FOR THE INSTALLATION OF UTILITIES WITH SUITABLE EXCAVATED MATERIAL. IN AREAS WHERE TOPSOIL HAS BEEN SEGREGATED, THE SUBSOIL SHALL BE REPLACED FIRST, FOLLOWED BY THE TOPSOIL BEING SPREAD OVER THE AREA FROM WHICH IT WAS REMOVED. FINAL GRADES SHALL BE THE SAME AS PRE-CONSTRUCTION CONTOURS.
- AFTER CONSTRUCTION IS COMPLETE, FINAL SEEDING AND MULCHING OF ALL DISTURBED AREAS NOT YET STABILIZED SHALL BE COMPLETED. INSTALL EROSION CONTROL BLANKETING ON SLOPES WHICH ARE 3:1 OR STEEPER. STABILIZE AND SEED ALL OPEN AREAS INCLUDING BORROW AND SPOIL AREAS.
- REMOVAL OF ALL TEMPORARY BMPs CAN BE PERFORMED UPON ACHIEVEMENT OF A UNIFORM 70 PERCENT PERENNIAL VEGETATIVE COVER WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION FOR ALL AREAS WHICH WOULD CONTRIBUTE RUNOFF TO THE BMPs. STABILIZE ANY DISTURBANCES ASSOCIATED WITH THE REMOVAL OF THE BMPs.

**WETLAND CROSSING SEQUENCE OF CONSTRUCTION**

- INSTALL TEMPORARY EROSION AND SEDIMENT CONTROLS PRIOR TO EARTH DISTURBANCE.
- SEDIMENT BARRIERS SHALL BE INSTALLED AT THE EDGE OF THE RIGHT-OF-WAY AND AROUND TOPSOIL AND SUBSOIL PILES.
- GEOTEXTILE SHALL BE PLACED UNDER SUBSOIL AND TOPSOIL PILES.
- WORKING SIDE OF TRENCH WILL BE STABILIZED WITH PRE-FABRICATED MATS, AS NEEDED, TO PROVIDE A FIRM SURFACE FOR CONSTRUCTION EQUIPMENT. FOR HEAVY SATURATED AREAS, GEOTEXTILE SHALL BE PLACED UNDER THE MATS TO PREVENT MOVEMENT OR PUMPING OF THE SOIL THROUGH THE MATS.
- IN WETLAND AREAS WITHOUT STANDING WATER OR SATURATED SOILS, TOPSOIL (TOP 12 INCHES) AND SUBSOIL SHALL BE SEGREGATED AND STOCKPILED DURING TRENCHING.
- UPON COMPLETION OF PIPE INSTALLATION THROUGH WETLAND, TRENCH PLUG(S) SHALL BE INSTALLED AS REQUIRED TO MAINTAIN ORIGINAL WETLAND HYDROLOGY.
- THE SEGREGATED TOPSOIL SHALL BE RESTORED TO ITS ORIGINAL CONDITION DURING BACKFILLING. THE ORIGINAL TOPSOIL SHALL BE KEPT IN A CONDITION THAT WILL ALLOW IT TO MAINTAIN SUFFICIENT SEED AND ROOT MATERIAL AND TO PROVIDE VEGETATIVE COVER.
- ALL SEEDING SHOULD COMPLY WITH EITHER OPTION "A" OR OPTION "B" SEED MIXES LISTED UNDER THE SPECIAL NOTES SECTION FOR STREAM/WETLAND CROSSINGS CONTAINED IN THESE DRAWINGS. SEEDING ONLY, WITH NO FERTILIZING, SHALL BE DONE IN CRITICAL AREAS (i.e. WITHIN 50' OF AN HQ OR EV STREAM CHANNEL OR WITHIN WETLANDS). DO NOT APPLY MULCH WITHIN WETLANDS.

**"OPEN CUT" STREAM CROSSING (TEMPORARY) CONSTRUCTION SEQUENCE - PIPE INSTALLATION**

- ALL IN-STREAM DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHOULD BE COMPLETED IN COMPLIANCE WITH WVDEP'S OFFICE OF CONSTRUCTION STORMWATER EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE.
- ALL WORK SHALL BE PERFORMED IN LOW FLOW CONDITIONS AND EACH CROSSING SHALL BE COMPLETED WITHIN 72 HOURS OF START OF WORK.
- POINTS OF INGRESS AND EGRESS TO STREAMS FOR EQUIPMENT SHALL BE WITHIN THE WORK SITE ONLY.
- SURFACE DISTURBANCE WILL NOT EXTEND BEYOND THE RIGHT-OF-WAY LIMITS. STREAM CROSSINGS WILL BE CONDUCTED AS CLOSE TO A RIGHT ANGLE TO THE WATERCOURSE AS PRACTICAL AND THE AREA OF DISTURBANCE WILL BE LIMITED TO REDUCE IN STREAM ACTIVITY.
- INSTALL TEMPORARY COFFER DAM AT UPSTREAM EDGE OF PROPOSED WORK AREA. DEWATER THE COFFERDAM AS NECESSARY.
- OPEN CUT CHANNEL TO A WIDTH AND DEPTH THAT IS NO MORE THAN WHAT IS NECESSARY FOR INSTALLATION OF PIPE. DURING EXCAVATION, SEPARATE THE INITIAL ONE FOOT OF STREAM SUBSTRATE FROM THE SUBSURFACE MATERIAL INTO TWO SEPARATE PILES.
- INSTALL PIPE AS SHOWN ON PLANS.
- BACKFILL TRENCH BY FIRST ADDING SUBSURFACE MATERIAL, THEN THE STREAM SUBSTRATE MATERIAL, ENSURING THAT ORIGINAL GRADE, DIMENSIONS, AND CONTOURS OF THE CHANNEL ARE RE-ESTABLISHED.
- REMOVE COFFERDAM AND STABILIZE ANY REMAINING DISTURBED AREAS.

**STREAM CROSSING (TEMPORARY) CONSTRUCTION SEQUENCE - ACCESS ROADS**

- ALL IN STREAM DISTURBANCE ACTIVITY SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED IN COMPLIANCE WITH WVDEP, THE WEST VIRGINIA OFFICE OF LAND AND STREAMS (WVOLS), THE WDNR, AND THE U.S. ARMY CORPS OF ENGINEERS (USACE) RULES AND REGULATIONS.
- STREAM CROSSING SHALL MEET THE REQUIREMENTS OF THE WVDEP'S OFFICE OF CONSTRUCTION STORMWATER EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL CHAPTER 3.21.
- SEE CULVERT STREAM CROSSING FROM THE WVDEP'S OFFICE OF CONSTRUCTION STORMWATER EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL.
- ALL WORK SHALL BE PERFORMED IN LOW FLOW CONDITIONS AND EACH CROSSING SHALL BE COMPLETED WITHIN 72 HOURS OF START OF WORK.
- POINTS OF INGRESS AND EGRESS TO STREAMS FOR EQUIPMENT SHALL BE WITHIN THE WORK SITE ONLY.
- SURFACE DISTURBANCE WILL NOT EXTEND BEYOND THE RIGHT-OF-WAY LIMITS. STREAM CROSSINGS WILL BE CONDUCTED AS CLOSE TO A RIGHT ANGLE TO THE WATERCOURSE AS PRACTICAL AND THE AREA OF DISTURBANCE WILL BE LIMITED TO REDUCE IN STREAM ACTIVITY.
- INSTALL TEMPORARY COFFER DAM AT UPSTREAM EDGE OF PROPOSED WORK AREA. DEWATER THE COFFERDAM AS NECESSARY.
- INSTALL ACCESS ROAD TEMPORARY CROSSING AS SHOWN ON PLANS.
- REMOVE COFFERDAM AND STABILIZE ANY REMAINING DISTURBED AREAS.

**UTILITY LINE INSTALLATION REQUIREMENTS**

- THE CONTRACTOR SHALL LIMIT TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT AND BACKFILL THAT CAN BE INSTALLED IN ONE DAY.
- THE CONTRACTOR SHALL GRADE TO FINAL CONTOURS, INSTALL REQUIRED EROSION CONTROL MEASURES, AND SEED AND MULCH ALL DISTURBED AREAS AT THE END OF EACH WEEK.
- DEWATER ALL TRENCHES PRIOR TO PIPE INSTALLATION AND BACKFILLING. ALL WATER TO BE PUMPED INTO A SEDIMENT FILTER BAG.
- ALL TRENCH EXCAVATION MATERIAL TO BE PLACED ON DOWNHILL SIDE OF TRENCH.
- IN THE EVENT THAT THESE REQUIREMENTS CAN'T BE MET DUE TO FIELD CONDITION, THE CONTRACTOR SHALL COORDINATE ALTERNATE REQUIREMENTS WITH OWNER'S REPRESENTATIVE.

**UTILITY RIGHT-OF-WAY RESTRICTIONS**

- CONSTRUCTION VEHICLES, VEHICLES WITH BOOMS AND EQUIPMENT OPERATING WITHIN OR ADJACENT TO A UTILITY RIGHT-OF-WAY MUST BE PROPERLY GROUNDED.
- CHANGES TO GRADE ELEVATION WITHIN THE UTILITY RIGHT-OF-WAY ARE NOT PERMITTED.
- GROUND DISTURBANCE OR EXCAVATIONS ARE NOT PERMITTED WITHIN 50 FEET OF ANY UTILITY STRUCTURES (POLES, TOWERS, GUYS, ETC.)
- EXPLOSIVES OR COMBUSTIBLE LIQUIDS, SUBSTANCES, OR MATERIALS ARE NOT PERMITTED WITHIN THE RIGHT-OF-WAY. PROHIBITED MATERIALS INCLUDE BUT ARE NOT LIMITED TO FUEL, WOOD CHIPS, MULCH, BRUSH, AND TIRES.

**IFC**

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
					1	09/05/14	REVISED PER CONE COMMENTS



**SHERWOOD SOUTH PIPELINE**

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**SWPPP NOTES**

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STATION(S): N/A

**ore Gathering LLC**

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE:	08/29/2014
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	2 of 60

**EROSION AND SEDIMENT CONTROL NARRATIVE:**

PLAN DESIGNER:  
CESO, INC  
2800 CORPORATE EXCHANGE DRIVE, SUITE 160  
COLUMBUS, OH 43231

OWNER:  
CONE GATHERING, LLC  
ONE ENERGY DRIVE  
JANE LEW, WV 26378

CONTACT: BENJAMIN J. MILLER, PE  
P: 614-794-7080  
E: MILLER@CESOINC.COM

CONTACT: ADAM WHITE  
P: 240-506-7299  
E: ADAMWHITE@CONSOLEENERGY.COM

WV DEP PERMIT #: XXXXXXXX

PROJECT DESCRIPTION: THIS PROJECT CONSISTS OF CONSTRUCTING A 16" NATURAL GAS PIPELINE, A 20" NATURAL GAS PIPELINE AND A 16" WATER LINE (12" NORTH OF MEATHOUSE FORK) IN DODDRIDGE COUNTY, WEST VIRGINIA.

136.17 ACRES TOTAL PROJECT AREA  
PIPELINE:  
98.74 ACRES DISTURBED  
TAR-4: 0.025 ACRES DISTURBED (NEW ACCESS ROAD WITHIN PIPELINE DISTURBANCE)  
TAR-5: 0.025 ACRES DISTURBED (NEW ACCESS ROAD WITHIN PIPELINE DISTURBANCE)  
TAR-8: 0.025 ACRES DISTURBED (NEW ACCESS ROAD WITHIN PIPELINE DISTURBANCE)  
TAR-9: 0.025 ACRES DISTURBED (NEW ACCESS ROAD WITHIN PIPELINE DISTURBANCE)  
ACCESS ROADS:  
TAR-1: 3.87 ACRES DISTURBED (UPGRADED ACCESS ROAD)  
TAR-2: 8.36 ACRES DISTURBED (UPGRADED ACCESS ROAD)  
TAR-3A: 3.23 ACRES DISTURBED (UPGRADED ACCESS ROAD)  
TAR-3B: 7.56 ACRES DISTURBED (UPGRADED ACCESS ROAD)  
TAR-3C: 0.52 ACRES DISTURBED (UPGRADED ACCESS ROAD)  
TAR-6: 1.05 ACRES DISTURBED (UPGRADED ACCESS ROAD)  
TAR-7: 1.35 ACRES DISTURBED (0.94 ACRES UPGRADED ACCESS ROAD, 0.41 ACRES NEW ACCESS ROAD)  
TAR-10: 1.25 ACRES DISTURBED (UPGRADED ACCESS ROAD)  
CR 13/3: 4.64 ACRES DISTURBED (UPGRADED COUNTY ROAD)  
CR 40/3: 5.58 ACRES DISTURBED (UPGRADED COUNTY ROAD)  
8340 CY CUT / 8315 CY FILL (25 CY SPOIL - TO BE SPOILED IN LAYDOWN AREA BETWEEN STA. 428+00 THRU STA. 438+00)

EXISTING SITE CONDITIONS: THE TOPOGRAPHY OF THIS SITE CONSISTS OF MANY RIDGES AND VALLEYS. THIS SITE CONSISTS PREDOMINATELY OF WOODS AND OPEN FIELDS. THIS SITE DRAINS TO S FORK HUGHES RIVER, MEATHOUSE FORK, AND BUCKEY CREEK.

ADJACENT AREAS: ADJACENT AREAS THAT MAY BE AFFECTED BY SITE DISTURBANCE INCLUDE STREAM G100, STREAM G2, WETLAND 2, WETLAND 1, WETLAND G71, STREAM G72, WETLAND A, WETLAND B, WETLAND C, STREAM C, STREAM 4, STREAM 5, STREAM G54, STREAM G51, STREAM G47, STREAM G45, STREAM G46, STREAM G43, STREAM G42, STREAM G38, WETLAND G63, WETLAND G37, STREAM G33, WETLAND G34, STREAM G33, WETLAND CD, STREAM CB, STREAM EM, WETLAND EM, STREAM EJ, STREAM OBX4, STREAM OBX3, STREAM OBX2, SR 18, CR 13/3, CR 13, CR 40, AND CR 19/11.

THE DRAINAGE PATH LEADING FROM THE SITE TO THE RECEIVING BODY OF WATER CONSISTS OF VEGETATED SWALES, EXISTING EROSIONAL FEATURES, AND TRIBUTARIES OF STREAMS.

CRITICAL AREAS: PIPELINE: STREAM G101, STREAM 1, WETLAND E, STREAM 6, WETLAND G54, STREAM G53, STREAM G52, STREAM G50, STREAM G49, STREAM G48, STREAM G44, STREAM G41, STREAM G40, STREAM G39, STREAM G36, STREAM G32, STREAM G31, STREAM G30, STREAM CC, WETLAND CA, STREAM ZZ, STREAM ZA, STREAM EH.

ACCESS ROADS: STREAM G108, STREAM G1, STREAM AJ9, WETLAND AJ11, WETLAND AJ13, STREAM AJ13, STREAM G44.

REQUIREMENTS FOR WORKING IN OR NEAR CRITICAL AREAS CAN BE FOUND ON SHEETS 2-6.

SOILS:

Soil name	Soil Mapping Unit	Erodibility (K Factor, Whole Soil)	Settleability (Unavailable)	Permeability	Depth (cm)	Texture	Soil Structure (Unavailable)
CHAGRIN SILT LOAM	Ch	0.37	-	Well drained	>200	Silt loam	-
GILPIN-PEABODY COMPLEX, 25 TO 35 PERCENT SLOPES	GpE	0.43	-	Well drained	69	Silt loam	-
GILPIN-PEABODY COMPLEX, 15 TO 35 PERCENT SLOPES, VERY STONY	GsE	0.37	-	Well drained	84	Silt loam	-
GILPIN-PEABODY COMPLEX, 35 TO 70 PERCENT SLOPES, VERY STONY	GsF	0.37	-	Well drained	84	Silt loam	-
GILPIN UPSHUR COMPLEX, 8 TO 15 PERCENT SLOPES	GuC	0.43	-	Well drained	84	Silt loam	-
GILPIN UPSHUR COMPLEX, 15 TO 25 PERCENT SLOPES	GuD	0.43	-	Well drained	84	Silt loam	-
MONONGAHELA SILT LOAM, 3 TO 8 PERCENT SLOPES	MoB	0.43	-	Moderately well drained	56	Silt loam	-
MONONGAHELA SILT LOAM, 8 TO 15 PERCENT SLOPES	MoC	0.43	-	Moderately well drained	56	Silt loam	-
SENSABAUGH SILT LOAM	Se	0.37	-	Well drained	>200	Silt loam	-
SENSABAUGH SILT LOAM, 3 TO 8 PERCENT SLOPES, RARELY FLOODED	SeB	0.37	-	Well drained	>200	Silt loam	-
VANDALIA SILT LOAM, 15 TO 25 PERCENT SLOPES	VaD	0.32	-	Well drained	>200	Silt loam	-
VANDALIA SILT LOAM, 25 TO 35 PERCENT SLOPES	VaF	0.49	-	Well drained	>200	Silt loam	-
VANDALIA SILT LOAM, 15 TO 35 PERCENT SLOPES, VERY STONY	VsE	0.49	-	Well drained	>200	Silt loam	-

\*Data obtained from NRCS-USDA Web Soil Survey

EROSION PROBLEM AREAS: POTENTIAL EROSION PROBLEMS ON THIS SITE EXIST ALONG STEEP SLOPES WHERE THE PIPELINE WILL BE CONSTRUCTED.

CONSTRUCTION STORMWATER POLLUTION PREVENTION ELEMENTS: THE SEDIMENT CONTROL PLAN SHOWS ALL CLEARING LIMITS AND PROPOSED SEDIMENT CONTROLS. THE GENERAL NOTES ADDRESS THE STABILIZATION OF SOILS, SLOPE PROTECTION, CONTROL OF OTHER POLLUTANTS, DEWATERING CONTROL, MAINTENANCE OF BMPs, MANAGEMENT OF THE PROJECT, AND STABILIZATION. TYPES OF BMPs USED ON THIS PROJECT INCLUDE SUPER SILT FENCE, SILT FENCE, WATER BARS, AND TRENCH PLUGS. REFER TO SHEETS 7-27 AND 33-38 FOR LOCATIONS.

CONSTRUCTION PHASING AND SCHEDULE: THE CONSTRUCTION SEQUENCE FOR THIS PROJECT CAN BE FOUND ON SHEET 2. WET SEASON CONSTRUCTION ACTIVITIES INCLUDE BUT ARE NOT LIMITED TO CLEARING, EROSION & SEDIMENT CONTROL INSTALLATION, ACCESS ROAD CONSTRUCTION, TRENCH EXCAVATION, UTILITY PLACEMENT, BACKFILLING, AND OPEN CUTTING OF STREAMS. CONSTRUCTION RESTRAINTS FOR ENVIRONMENTALLY CRITICAL AREAS CAN BE FOUND ON SHEET 2.

ENGINEERING CALCULATIONS: CULVERTS FOR THIS PROJECT WERE SIZED USING THE TR-55 METHOD TO PASS THE PEAK DISCHARGE FROM A 10-YR/24-HR STORM.

**EROSION & SEDIMENT CONTROL PLAN NOTES**

- ALL EROSION AND SEDIMENTATION CONTROL SHALL BE PERFORMED ACCORDING TO THIS PLAN, WEST VIRGINIA GENERAL WATER POLLUTION CONTROL PERMIT, ANY AND ALL REQUIRED PERMITS, REPORTS, AND RELATED DOCUMENTS. ALL CONTRACTORS AND SUBCONTRACTORS MUST BECOME FAMILIAR WITH ALL OF THE ABOVE.
- CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE EROSION CONTROL PLAN. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AND GRADE CHANGES TO THE SITE AT NO ADDITIONAL COST TO OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- CONTRACTOR SHALL MINIMIZE CLEARING AND DISTURBANCE TO THE ENVIRONMENT TO THE MAXIMUM EXTENT POSSIBLE OR AS REQUIRED BY THE GENERAL PERMIT.
- PERIMETER SEDIMENT BARRIERS SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING WITHIN SEVEN (7) DAYS FROM THE START OF CLEARING AND GRUBBING, AND SHALL CONTINUE TO FUNCTION UNTIL THE SLOPE DEVELOPMENT AREA IS RESTABILIZED.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS PERMANENTLY CEASED.
- WHERE THE INITIATION OF STABILIZATION MEASURES BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS CONDITIONS ALLOW.
- WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 14 DAYS FROM WHEN ACTIVITIES CEASED, (E.G., THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY HALTED IS LESS THAN 14 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED.
- AREAS WHERE THE SEED HAS FAILED TO GERMINATE ADEQUATELY (UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70%) WITHIN 30 DAYS AFTER SEEDING AND MULCHING MUST BE RESEEDED IMMEDIATELY, OR AS SOON AS WEATHER CONDITIONS ALLOW.
- TEMPORARY SEEDING SHALL BE IN ACCORDANCE WITH WVDEP'S OFFICE OF CONSTRUCTION STORMWATER EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL, CHAPTER 3.10.
- PERMANENT SEEDING SHALL BE IN ACCORDANCE WITH WVDEP'S OFFICE OF CONSTRUCTION STORMWATER EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL, CHAPTER 3.11.
- SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION. ALL SLOPES 3:1 OR GREATER THAN 3:1 SHALL BE FERTILIZED, SEED, AND CURLEX BLANKETS BY AMERICAN EXCELSION COMPANY, NORTH AMERICAN GREEN, INC. OR AN APPROVED EQUAL AS SPECIFIED IN THE PLANS SHALL BE INSTALLED ON THE SLOPES.
- NO SOLID (OTHER THAN SEDIMENT) OR LIQUID WASTE, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED IN STORM WATER RUNOFF. ALL NON-SEDIMENT POLLUTANTS MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL GUIDELINES. WASH OUT OF CEMENT TRUCKS SHOULD OCCUR IN DESIGNATED PIT OR DIKED AREAS, WHERE WASHINGS CAN BE REMOVED AND PROPERLY DISPOSED OFF-SITE WHEN THEY HARDEN. STORAGE TANKS SHOULD ALSO BE LOCATED IN PIT OR DIKED AREAS. IN ADDITION, SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS TO CLEAN AND CONTAIN FUEL AND CHEMICAL SPILLS MUST BE KEPT ON SITE.
- IF THE ACTION OF VEHICLES TRAVELING OVER THE STABILIZED CONSTRUCTION EXIT DOES NOT SUFFICIENTLY REMOVE MOST OF THE DIRT AND MUD, THEN THE TIRES MUST BE WASHED BEFORE VEHICLES ENTER A PUBLIC ROAD. PROVISIONS MUST BE MADE TO INTERCEPT THE WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
- RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DISPOSED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE SITE THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- DUST CONTROL USING APPROVED MATERIALS MUST BE PERFORMED AT ALL TIMES. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION IS PROHIBITED.
- ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED ONTO THE ROADWAYS OR INTO THE STORM SEWERS MUST BE REMOVED IMMEDIATELY.

**TEMPORARY SEEDING CHART**

Common Name	Scientific Name	Planting Dates	PLS Lbs/Acre
Annual Ryegrass	Lolium multiflorum	2/16-6/15, 8/1-11/1	40
Field Bromegrass	Bromus ciliatus	3/1-8/15, 8/1-9/15	40
Spring Oats	Avena sativa	3/1-6/15	100
Winter Rye	Secale cereale	8/15-2/28	170
Winter Wheat	Triticum aestivum	8/18-2/28	160
Japanese Millet	Echinochloa crusgali	5/15-8/15	30
Redtop	Agrostis alba	3/1-6/15	10
Annual Ryegrass and Spring Oats	Lolium multiflorum, Avena sativa	3/1-6/15	30, 70
German, Foxtail Millet	Setaria italica	5/1-8/1	40
Hairy Vetch	Vicia villosa	8/15-4/1	60

**PERMANENT SEEDING CHART**

Seed Mix	Common Name	Scientific Name	PLS Lbs/Acre
O	Perennial Ryegrass	Lolium perenne	40
	Birdsfoot Trefoil	Lotus corniculatus	15
	Redtop	Agrostis alba	5
P	Serecia Lespedeza	Lespedeza curata	40
	Orchardgrass	Dactylis glomerata	30
	Redtop	Agrostis alba	5

- ALL PERMANENT SEEDING SHALL CONFORM TO WV DEP EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL, SECTION 3.10-1.
- SEED MIX O OR P SHALL BE USED FOR PERMANENT SEEDING.

- PRIOR TO SEEDING, INSTALL NECESSARY EROSION CONTROL PRACTICES SUCH AS DIKES, WATERWAYS, AND BASINS.
- SEED SHALL BE EVENLY APPLIED WITH A BROADCAST SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. SMALL GRAINS SHALL BE PLANTED NO MORE THAN 1.5 INCHES DEEP. SMALL SEEDS, SUCH AS ANNUAL RYE, SHALL BE PLANTED NO MORE THAN A QUARTER INCH DEEP. OTHER GRASSES AND LEGUMES SHALL BE PLANTED NO MORE THAN A HALF INCH DEEP.
- TEMPORARY SEEDING CONDUCTED IN FALL FOR WINTER COVER AND DURING HOT AND DRY SUMMER MONTHS SHALL BE MULCHED WITH STRAW AND HAY ACCORDING TO THE STANDARD FOR MULCHING, HYDROMULCHES (FIBER MULCH) MAY NOT PROVIDE ADEQUATE TEMPERATURE AND MOISTURE CONTROL.

**EROSION & SEDIMENT CONTROL MAINTENANCE NOTES:**

ALL CONTROL MEASURES STATED IN THIS PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL TEMPORARY OR PERMANENT STABILIZATION OF THE SITE IS ACHIEVED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED BY A QUALIFIED PERSON IN ACCORDANCE TO THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED ACCORDING TO THE FOLLOWING:

- ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STANDING OF GRASS IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED.
- SILT FENCES, AND CHECK DAMS SHALL BE REPAIRED TO THEIR ORIGINAL CONDITION IF DAMAGED. SEDIMENT ACCUMULATION MUST BE REMOVED WHEN SEDIMENT HEIGHT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE OR CHECK DAM.
- SEDIMENTATION TRAPS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT MUST BE REMOVED FROM TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 40%.
- MINIMIZE OFF-SITE SEDIMENT TRACKING OF VEHICLES BY THE USE OF STONE MATERIAL IN ALL CONSTRUCTION ENTRANCES, ALONG WITH REGULARLY SCHEDULED SWEEPING/GOOD HOUSEKEEPING. STABILIZED CONSTRUCTION ENTRANCES TO BE PROPERLY MAINTAINED BY GENERAL CONTRACTOR AND IN GOOD WORKING ORDER AT ALL TIMES; THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE STONE AS CONDITIONS DEMAND.
- THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE) BY GENERAL CONTRACTOR. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
- CONTRACTORS AND SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING ALL SEDIMENT FROM THE SITE, INCLUDING SEDIMENT TRAPS AND STORM SEWER PIPES. SEDIMENT DEPOSITION DURING SITE STABILIZATION MUST ALSO BE REMOVED.
- ALL ROCK CHANNEL PROTECTION MUST BE PLACED OVER GEOTEXTILE FILTER.
- ROCK CHECK DAMS SHOULD BE ROUTINELY CLEANED ONCE SEDIMENT BEGINS TO APPEAR ON THE UPSTREAM SIDE OF THE ROCK.
- CONTAINERS SHALL BE AVAILABLE FOR DISPOSAL OF DEBRIS, TRASH, HAZARDOUS OR PETROLEUM WASTES. ALL CONTAINERS MUST BE COVERED AND LEAK-PROOF. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THE PERTINENT MATERIAL.
- AREA SHALL BE DESIGNATED BY CONTRACTOR AND SHOWN ON SWPPP MAP FOR MIXING OR STORAGE OF COMPOUNDS SUCH AS FERTILIZERS, LIME ASPHALT, OR CONCRETE. THESE DESIGNATED AREAS SHALL BE LOCATED AWAY FROM WATERCOURSES, DRAINAGE DITCHES, FIELD DRAINS, OR OTHER STORMWATER DRAINAGE AREA.
- EQUIPMENT FUELING & MAINTENANCE SHALL BE IN DESIGNATED AREAS ONLY.
- A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN MUST BE DEVELOPED FOR SITES WITH ONE ABOVE-GROUND STORAGE TANK OF 660 GALLONS OR MORE, TOTAL ABOVE-GROUND STORAGE OF 1,330 GALLONS OR BELOW-GROUND STORAGE OF 4,200 GALLONS OF FUEL.
- ALL CONTAMINATED SOIL MUST BE TREATED AND/OR DISPOSED IN AN WVDEP APPROVED SOLID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITIES.
- THE CONTRACTOR SHALL CONTACT THE WVDEP, THE LOCAL FIRE DEPARTMENT AND THE LOCAL EMERGENCY PLANNING COMMITTEE IN THE EVENT OF A PETROLEUM SPILL (>25 GALLONS) OR THE PRESENCE OF SHEEN.

**EROSION & SEDIMENT CONTROL MAINTENANCE NOTES**

ALL EROSION AND SEDIMENT CONTROLS ON THE SITE SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES PER 24 HOUR PERIOD. ANY REQUIRED REPAIRS OR MAINTENANCE SHALL BE MADE IMMEDIATELY.

IFC

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
					1	08/29/14	REVISED PER CONE COMMENTS



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SHERWOOD SOUTH PIPELINE

SWPPP NOTES

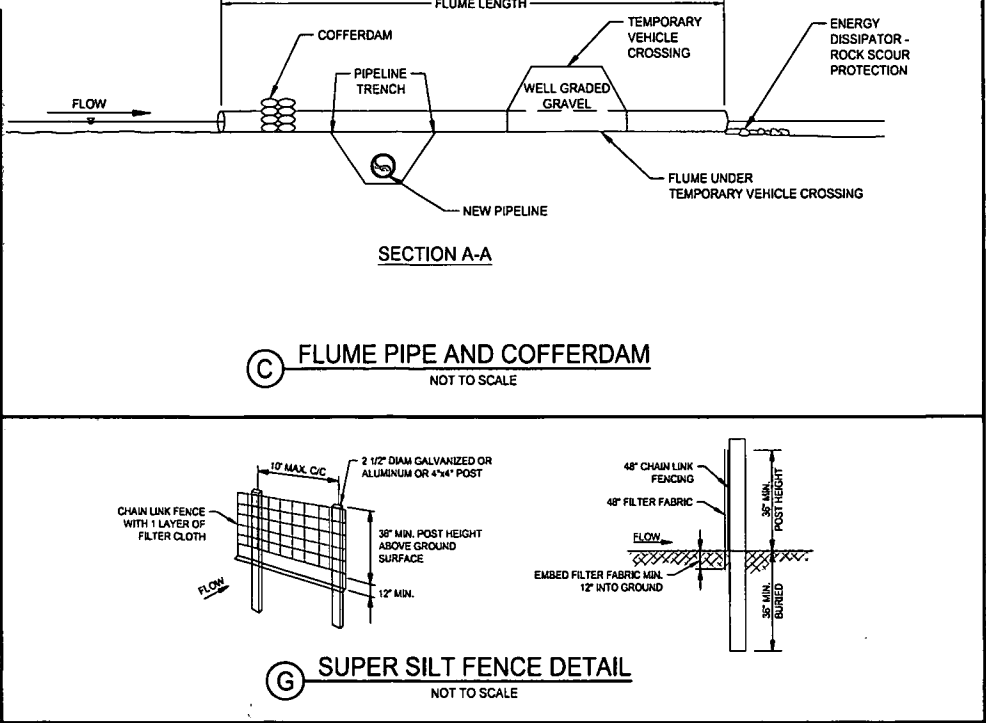
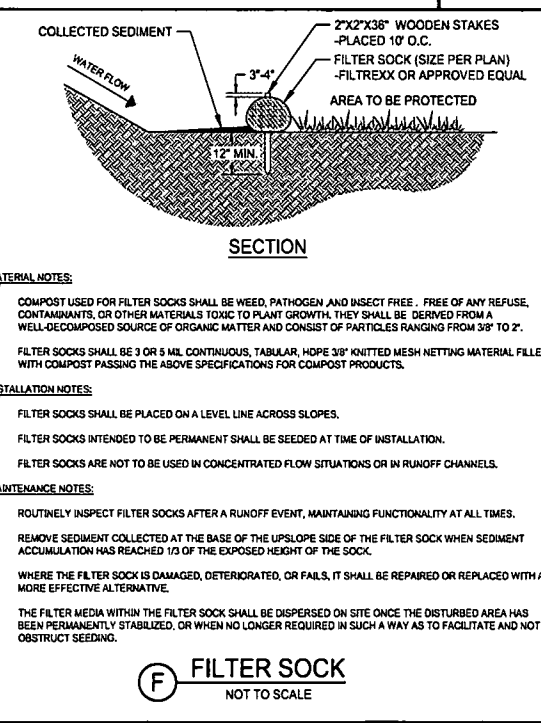
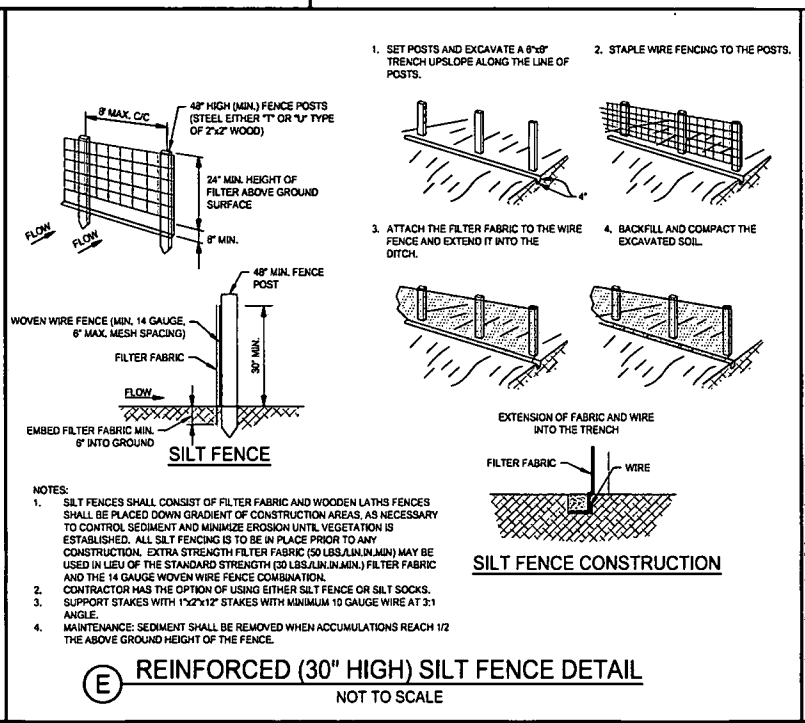
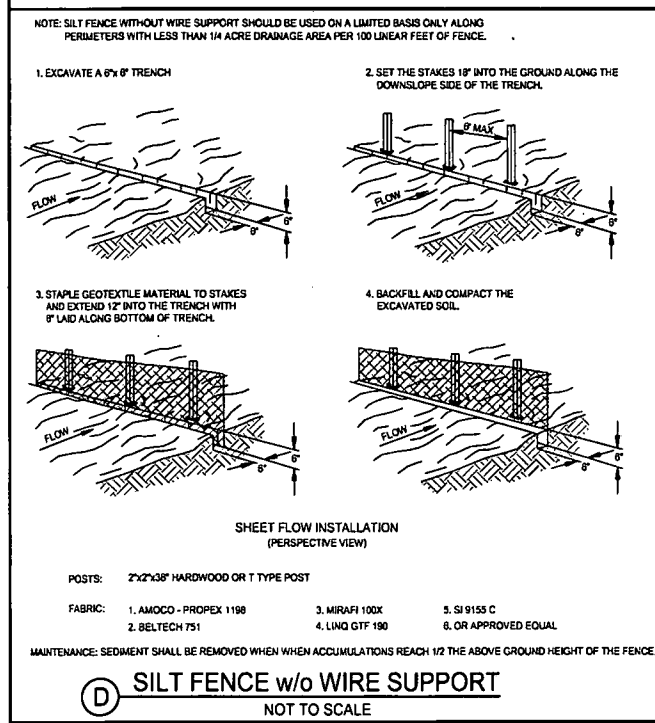
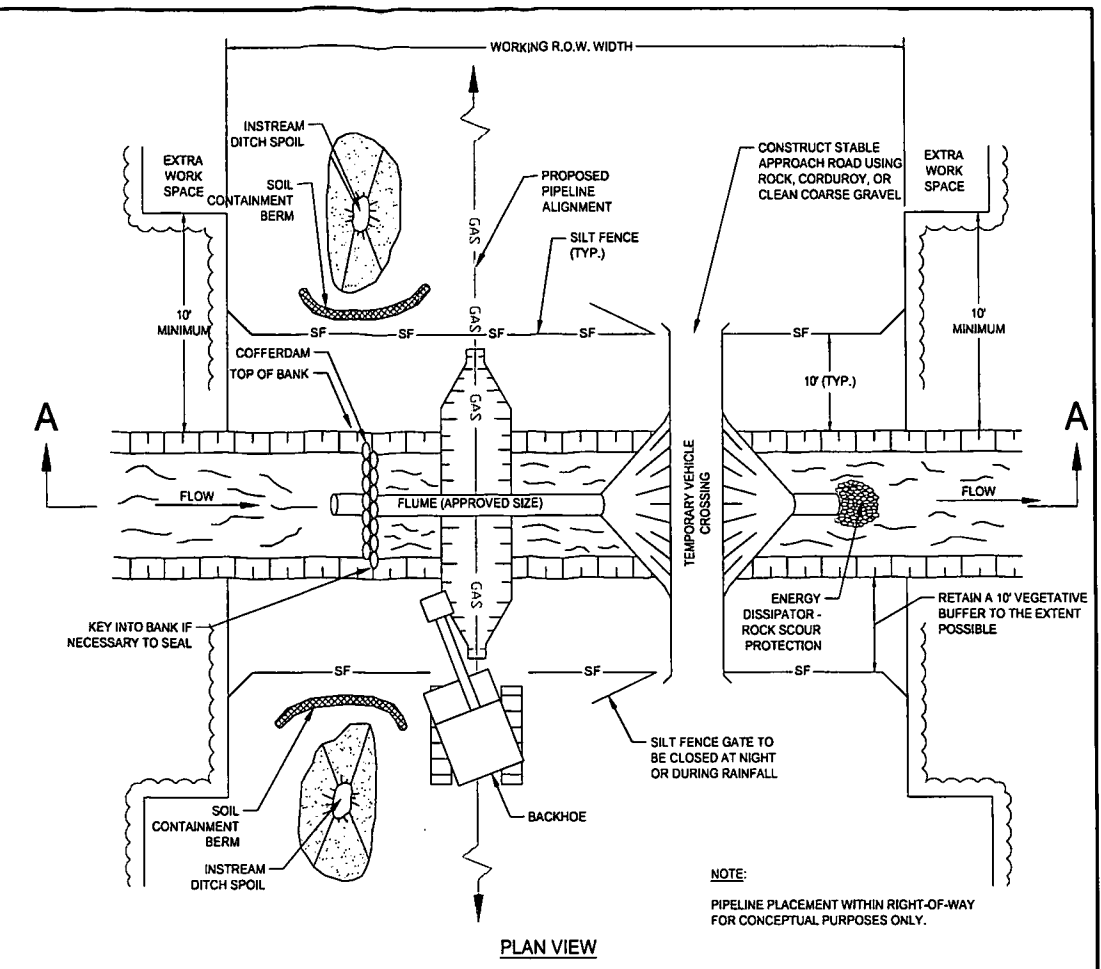
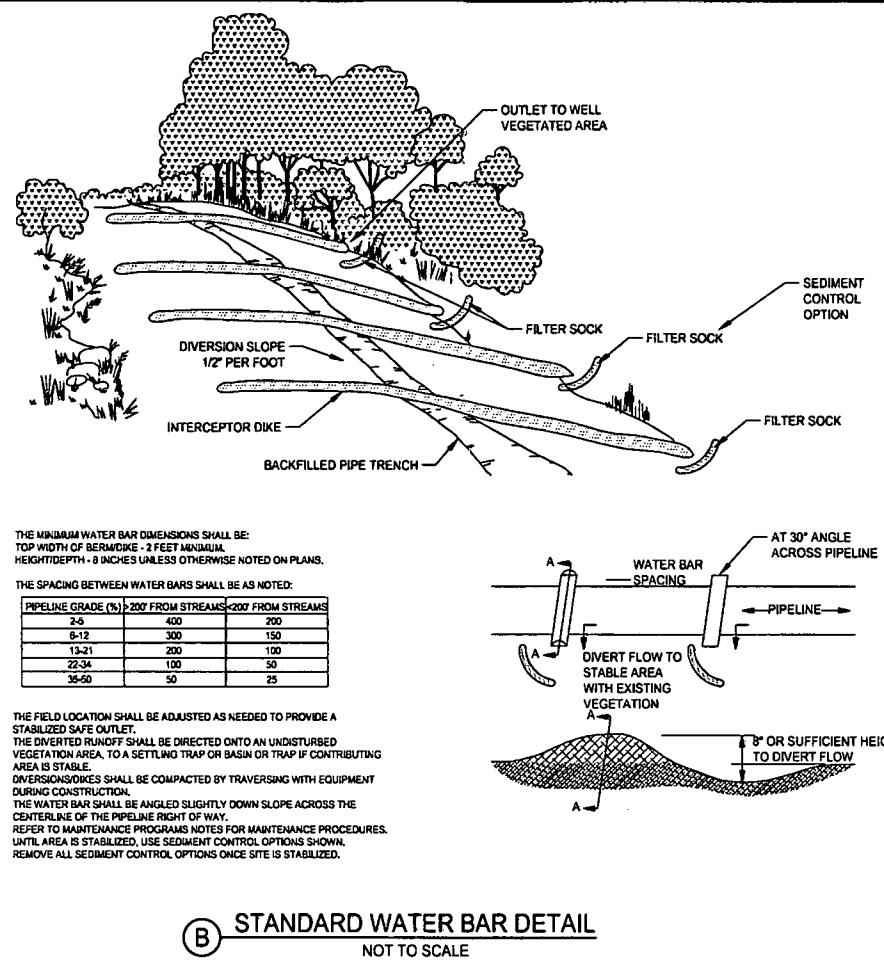
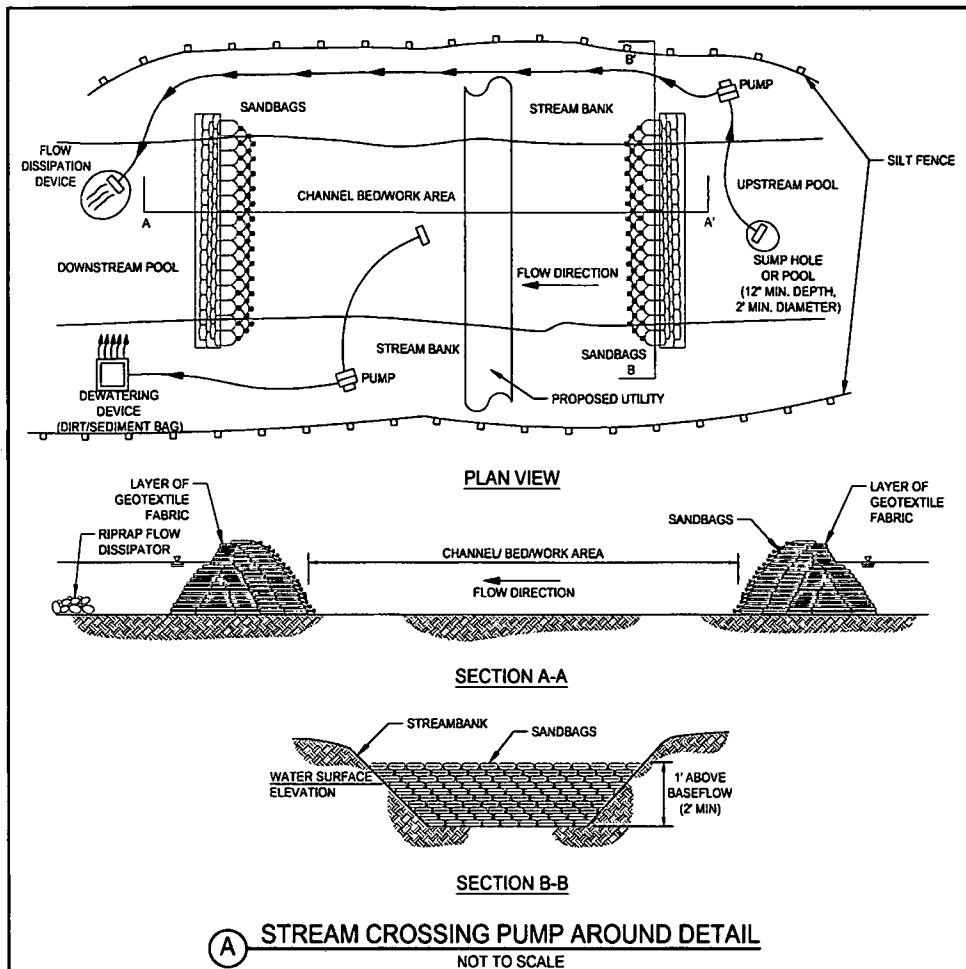
STATION(S): N/A



ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE: 08/29/2014  
JOB NO.: 90126  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.

3 of 60



**IFC**

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
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**SHERWOOD SOUTH PIPELINE**

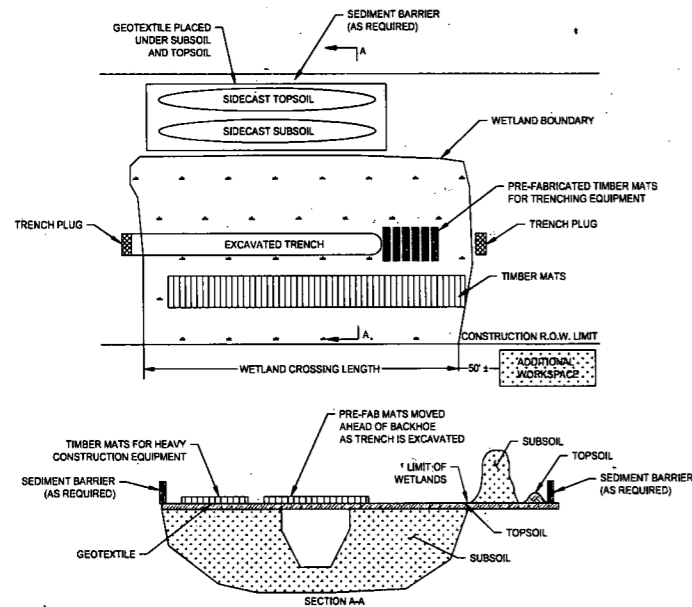
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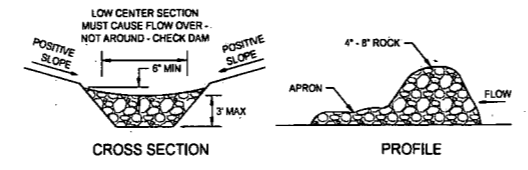
**Stone Gathering LLC**

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE: 08/29/2014  
JOB NO.: 90126  
DESIGN: BEM  
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CHECKED: BJM  
SHEET NO.  
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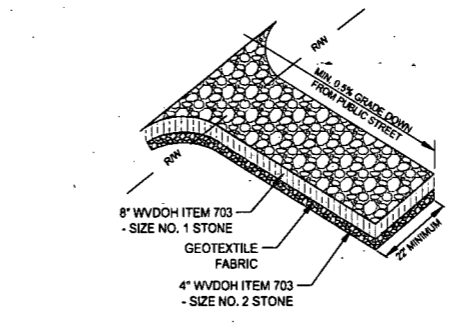


**H** TYPICAL PIPELINE WETLAND CROSSING  
NOT TO SCALE

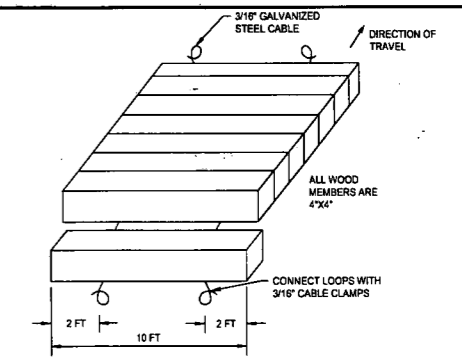


- NOTES:**
1. THE CHECK DAM SHALL BE CONSTRUCTED OF 4-8" DIAMETER STONE, PLACED SO THAT IT COMPLETELY COVERS THE WIDTH OF THE CHANNEL.
  2. MAXIMUM HEIGHT OF CHECK DAM SHALL NOT EXCEED 3.0 FEET.
  3. THE MIDPOINT OF THE ROCK CHECK DAM SHALL BE A MINIMUM OF 6" LOWER THAN THE SIDES IN ORDER TO DIRECT ACROSS THE CENTER AND AWAY FROM THE CHANNEL SIDES.
  4. THE BASE OF THE CHECK DAM SHALL BE ENTRENCHED APPROXIMATELY 6 INCHES.
  5. SPACING OF CHECK DAMS SHALL BE IN A MANNER SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.
  6. A SPLASH APRON SHALL BE CONSTRUCTED WHERE CHECK DAMS ARE EXPECTED TO BE IN USE FOR AN EXTENDED PERIOD OF TIME. A STONE APRON SHALL BE CONSTRUCTED IMMEDIATELY DOWNSTREAM OF THE CHECK DAM TO PREVENT FLOWS FROM UNDERCUTTING THE STRUCTURE. THE APRON SHOULD BE 6 IN. THICK AND ITS LENGTH TWO TIMES THE HEIGHT OF THE DAM.
  7. STONE PLACEMENT SHALL BE PERFORMED BY EITHER HAND OR MECHANICALLY AS LONG AS THE CENTER OF CHECK DAM IS LOWER THAN THE SIDES AND EXTENDS ACROSS THE ENTIRE CHANNEL.
  8. SIDE SLOPES SHALL BE A MINIMUM OF 2:1.

**I** ROCK CHECK DAM DETAIL  
NOT TO SCALE



**J** STABILIZED CONSTRUCTION ENTRANCE  
NOT TO SCALE



**K** TYPICAL TIMBER MAT FOR WETLAND CROSSING  
NOT TO SCALE

**OPTION A**  
"Wooded Wetland Establishment Seed Mix" (available from JFNew or Ernst)

Scientific Name	Common Name	PLS Ounces/Acre
<b>Permanent Grasses/Sedges:</b>		
<i>Calamagrostis canadensis</i>	Bluejoint Grass	1.00
<i>Carex crinita</i>	Fringed Sedge	2.00
<i>Carex lupulina</i>	Common Hop Sedge	4.00
<i>Carex lurida</i>	Bottlebrush Sedge	1.50
<i>Carex frankii</i>	Bristly Cattail Sedge	3.00
<i>Carex squarrosa</i>	Narrow-Leaved Cattail Sedge	1.00
<i>Carex typhina</i>	Common Cattail Sedge	1.00
<i>Carex vulpinoidea</i>	Brown Fox Sedge	4.00
<i>Elymus virginicus</i>	Virginia Wild Rye	20.00
<i>Glyceria striata</i>	Fowl Manna Grass	2.00
<i>Leersia oryzoides</i>	Rice Cut Grass	2.00
<i>Scirpus atrovirens</i>	Dark Green Rush	2.00
<i>Spartina pectinata</i>	Prairie Cord Grass	1.00
<b>Total</b>		<b>44.50</b>

**Temporary Cover:**

<i>Avena sativa</i>	Common Oat	360.00
<i>Lolium multibrum</i>	Annual Rye	100.00
<b>Total</b>		<b>460.00</b>

**Temporary Cover:**

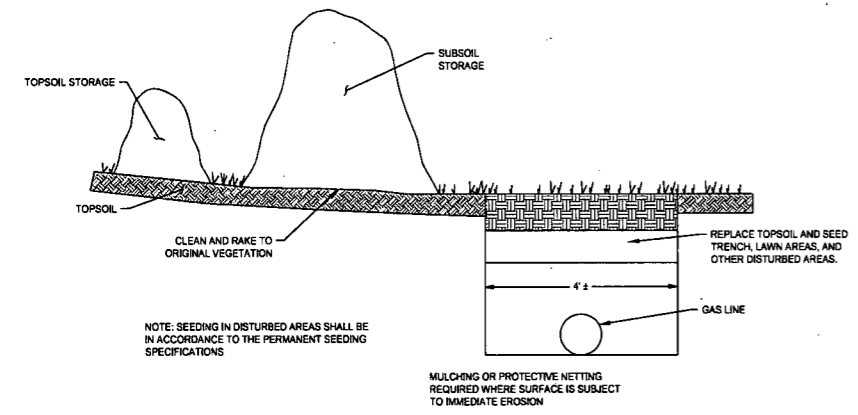
<i>Alisma spp.</i>	Water Plantain Mix	3.00
<i>Angelica atropurpurea</i>	Great Angelica	1.00
<i>Aster puniceus</i>	Bristly Aster	0.75
<i>Aster umbellatus</i>	Flat-Top Aster	0.25
<i>Bidens cernua</i>	Nodding Bur Marigold	2.50
<i>Cephalanthus occidentalis</i>	Buttonbush	0.50
<i>Campanula americana</i>	Tall Bellflower	0.25
<i>Helenium autumnale</i>	Sneezeweed	2.00
<i>Heracleum lanatum</i>	Cow Parsnip	0.75
<i>Hibiscus moscheutos</i>	Swamp Rose Mallow	2.00
<i>Lobelia siphilitica</i>	Great Blue Lobelia	1.50
<i>Lycoopus americanus</i>	Common Water Horehound	0.25
<i>Mimulus ringens</i>	Monkey Flower	1.25
<i>Penthorum sedoides</i>	Ditch Stonewort	0.50
<i>Polygonum spp.</i>	Pinkweed mix	0.50
<i>Rudbeckia laciniata</i>	Wild Golden Glow	0.75
<i>Verbesina alternifolia</i>	Wingstem	2.00
<b>Total</b>		<b>19.75</b>

NOTE: APPLY AT 32.8 PLS POUNDS PER ACRE.

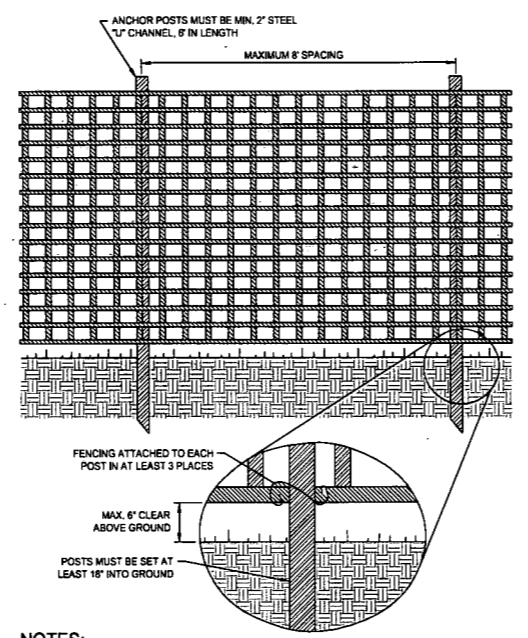
**OPTION B**  
Wetland Restoration Mixture

Scientific Name	Common Name	PLS Ounces/Acre
<i>Avena sativa</i>	Common Oat	480.00
<i>Secale cereale</i>	Cereal Rye	480.00
<i>Panicum virgatum</i>	Switch Grass	32.00
<i>Panicum clandestinum</i>	Deer-tongue Grass	32.00
<i>Elymus riparius</i>	Riverbank Wild Rye	32.00
<i>Poa palustris</i>	March Bluegrass	32.00
<i>Sorghastrum nutans</i>	Indian Grass	16.00
<i>Glyceria striata</i>	Fowl Manna Grass	8.00
<i>Carex crinita</i>	Fringe Sedge	8.00
<i>Carex lurida</i>	Bottlebrush Sedge	8.00
<i>Scirpus atrovirens</i>	Dark Green Rush	8.00
<i>Polygonum pensylvanicum</i>	Pinkweed	8.00
<i>Verbena hastata</i>	Blue Vervain	8.00
<i>Verbesina alternifolia</i>	Wingstem	8.00
<i>Senna hebecarpa</i>	Wild Senna	8.00
<b>Total</b>		<b>1168.00</b>

- STREAM/WETLAND CROSSING NOTES**
1. ALL TREES AND WOODY DEBRIS REMOVED FROM STREAM OR WETLAND CROSSINGS MUST BE DISPOSED OF OUTSIDE THE RIPARIAN OR WETLAND CROSSING AREAS.
  2. CONSTRUCTION TIMBER MATTING MUST BE USED WHEN EQUIPMENT IS CROSSING WETLANDS AND/OR SOFT GROUND.
  3. THE SEED MIX FOR STREAM/WETLAND CROSSING AREAS (OPTIONS A OR B) SHALL BE USED.
  4. NO FERTILIZER OR LIME SHALL BE USED IN STREAM/WETLAND CROSSING AREAS.
  5. NO GRUBBING IS ALLOWED AT TEMPORARY ACCESS CROSSINGS OF STREAMS OR WETLANDS.

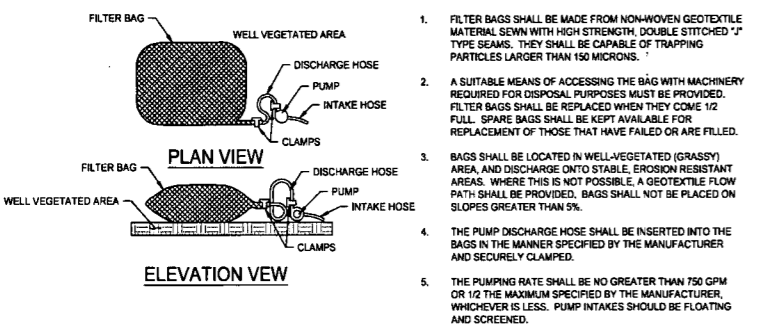


**L** DOUBLE DITCH FOR UTILITY TRENCHES  
NOT TO SCALE



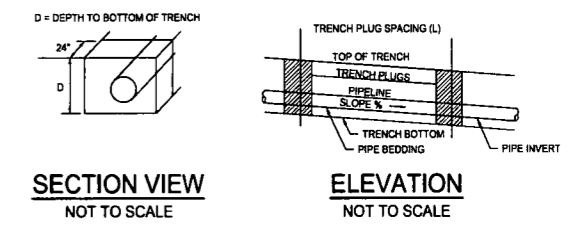
- NOTES:**
1. PROTECTION BARRIER SHALL BE 4' HIGH, CONSTRUCTED OF DURABLE AND HIGHLY VISIBLE MATERIAL (PLASTIC ORANGE CONSTRUCTION FENCE AND SNOW-FENCE MAY BE USED).
  2. PROTECTION BARRIERS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE WORK AT THE SITE.
  3. ADDITIONAL WARNING SIGNS SHOULD ALSO BE PLACED ON THE FENCING AND IN APPROPRIATE AREAS NEAR THE WORK ZONE.

**N** CONSTRUCTION FENCE DETAIL  
NOT TO SCALE



1. FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS.
2. A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES MUST BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY COME 1/2 FULL. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED.
3. BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE FLOW PATH SHALL BE PROVIDED. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%.
4. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED.
5. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHOULD BE FLOATING AND SCREENED.

**M** SEDIMENT FILTER BAG FOR PUMPED WATER DETAIL  
NOT TO SCALE



**REQUIRED SPACING AND MATERIALS FOR TRENCH PLUGS**

TRENCH SLOPE (%)	SPACING (FT)	PLUG MATERIAL
< 5	-	-
5-15	500	** EARTH FILLED SACKS
15-25	300	** EARTH FILLED SACKS
25-35	200	** EARTH FILLED SACKS
35-100	100	** EARTH FILLED SACKS
> 100	50	CEMENT FILLED BAGS (WETTED) OR MORTARED STONE

\* TRENCH PLUGS ARE REQUIRED AT ALL STREAM, RIVER, OR WATER-BODY CROSSING REGARDLESS OF TRENCH SLOPE.

**O** TRENCH PLUG DETAIL  
NOT TO SCALE

IFC

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
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SHERWOOD SOUTH PIPELINE

SWPPP DETAILS

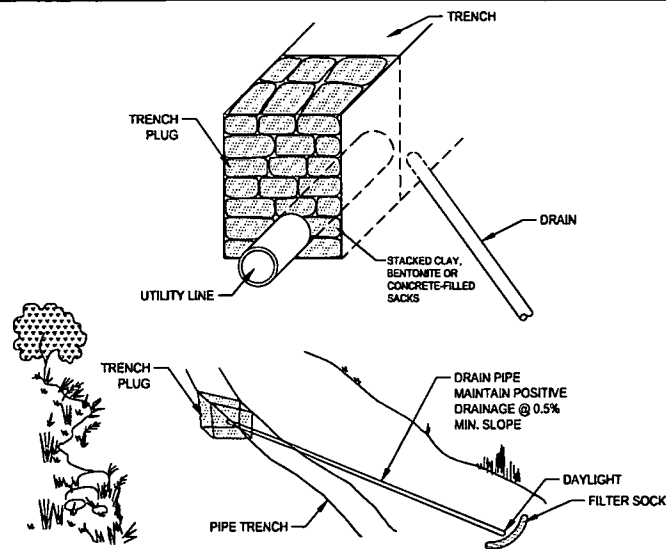
STATION(S): N/A

Gathering LLC

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE: 08/29/2014  
JOB NO.: 90126  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.

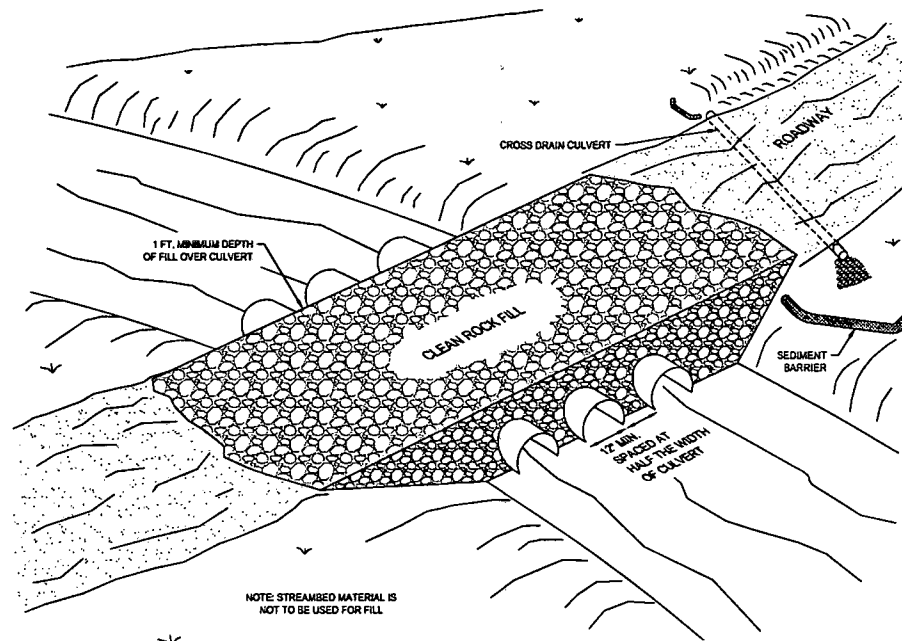
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**P** TRENCH PLUG DRAIN DETAIL  
NOT TO SCALE

**NOTES:**

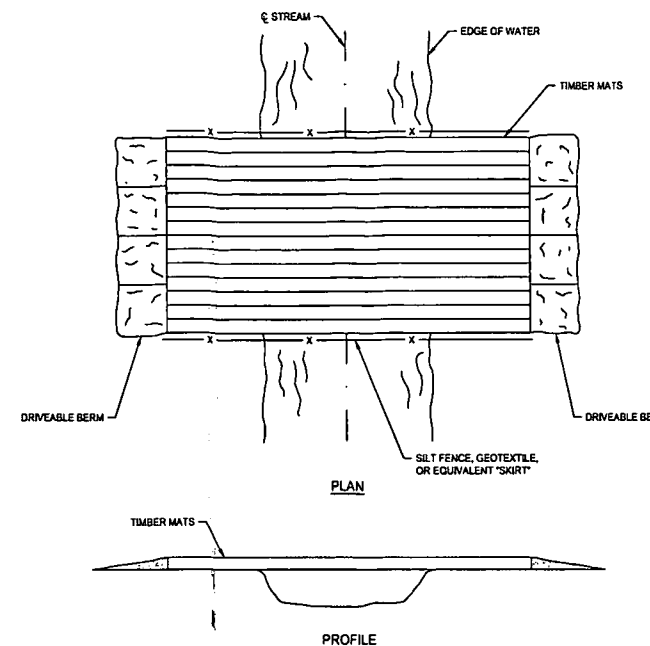
1. TRENCH PLUG DRAINS TO BE USED DURING HEAVY RAIN EVENTS ON STEEP SLOPES.
2. TRENCH PLUG DRAINS TO BE REMOVED AND PLUGGED BEFORE BACKFILLING.



**Q** DETAIL FIGURE II-9: STREAM CROSSING -  
TEMPORARY, WITH CULVERT  
NOT TO SCALE

**NOTES:**

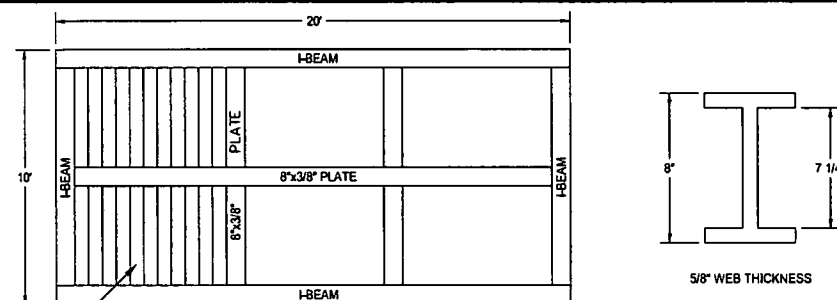
1. THE STRUCTURE SHALL BE LARGE ENOUGH TO HANDLE A 1-YEAR FREQUENCY STORM, 24 HOUR DURATION.
2. DEPTH OF COVER OVER CULVERTS SHALL BE  $\frac{1}{2}$  THE DIAMETER OF THE CULVERTS USED OR 12 INCHES, WHICHEVER IS GREATER.
3. MULTI-CULVERTS SHOULD BE INSTALLED WITH SPACES BETWEEN THEM, EQUAL TO  $\frac{1}{2}$  THE PIPE DIAMETER.
4. LOW WATER CROSSINGS MAY BE USED, IF PROTECTED WHEN OVERFLOWING OCCURS. THIS CAN BE ACCOMPLISHED BY USING ROCK AND CONCRETE.
5. CROSS CRIBBING OF THE DOWNSTREAM SIDE OF CULVERT INSTALLATIONS MAY BE NEEDED TO AID IN REDUCING STRUCTURAL DAMAGE DURING HIGH VELOCITY WATER OVERFLOW PERIODS.
6. IF CULVERTS OR BRIDGES ARE NOT USED AND A STONE BASE DOESN'T EXIST, STONE SHALL BE INSTALLED, WITH THE ENTRANCE AND EXIT BEING STONED FOR APPROXIMATELY 100 FEET.
7. DITCH LINE EXIT POINTS AT STREAM CROSSINGS MUST HAVE SEDIMENT CONTROLS.



**R** STANDARD CONSTRUCTION DETAIL -  
TIMBER MAT BRIDGE  
NOT TO SCALE

**NOTES:**

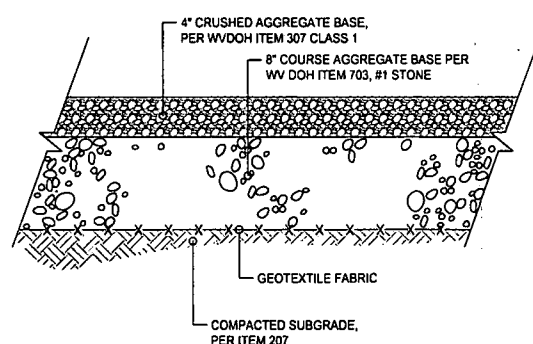
1. THIS TYPE OF BRIDGE IS GENERALLY USED FOR SMALL STREAM CROSSINGS LESS THAN 20 FEET IN WIDTH IN COMBINATION WITH A PROPER STREAM BANK CONFIGURATION.
2. BRIDGE WILL BE TEMPORARILY REMOVED IF HIGH WATER RENDERS IT UNSAFE FOR CROSSING.
3. BRIDGE TO REMAIN IN PLACE UNTIL THE COMPLETION OF FINAL RESTORATION.
4. SILT FENCE, SAND BAGS, DRIVABLE BERMS, OR OTHER APPROPRIATE EROSION CONTROL MAY BE USED INTERCHANGEABLY.
5. A "SKIRT" FORMED OF SILT FENCE, GEOTEXTILE FABRIC, OR EQUIVALENT SHALL BE PLACED ON THE SIDES AND BOTTOM OF THE BRIDGE TO TRAP SEDIMENT AS NECESSARY.
6. INDIVIDUAL MATS SHALL BE ANCHORED AND BUTTED TIGHTLY TO MINIMIZE THE INTRODUCTION OF SEDIMENT TO THE WATERBODY.



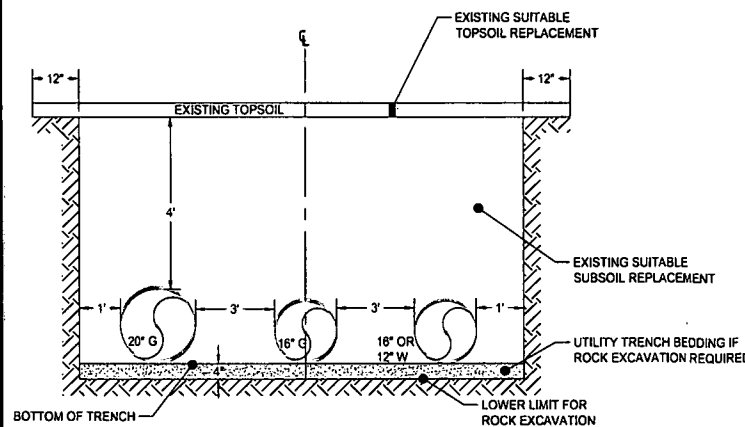
**S** AIR BRIDGE  
N.T.S.

**NOTES:**

1. CONTACT UTILITY COMPANY AT LEAST 72 HOURS PRIOR TO CONSTRUCTION TO HAVE THE EXISTING TRANSMISSION LINE FLAGGED.
2. CONE GATHERING REPRESENTATIVES MUST BE ON SITE DURING CONSTRUCTION TO APPROVE INSTALLATION.
3. THE CURRENT PIPELINE COVER MUST BE MAINTAINED. DURING CONSTRUCTION, CONTRACTOR SHALL STRIP TOPSOIL AND PLACE MATTING BOARDS FOR EQUIPMENT CROSSING THE GAS TRANSMISSION EASEMENT. MATTING BOARDS BENEATH THE EMBANKMENT ARE TO REMAIN IN PLACE.
4. AIR BRIDGE IS TO BE REMOVED DURING SITE RESTORATION PHASE. UTILITY COMPANY REPRESENTATIVES MUST BE ON SITE DURING REMOVAL FOR CONSTRUCTION APPROVAL. AFTER AIR BRIDGE IS REMOVED, FILL AIR GAP WITH SUBSOIL AND COMPACT TO SPECIFICATION. SEED AND MULCH FILL SLOPES.



**T** ACCESS DRIVE PAVEMENT  
N.T.S.



**U** TRENCH DETAIL  
NOT TO SCALE

**NOTES:**

1. WHEN TRENCH EXCAVATION TAKES PLACE IN AN AGRICULTURAL, WETLAND, OR RESIDENTIAL AREA, THEN SEGREGATION OF TOPSOIL AND SUBSOIL WILL BE PERFORMED. PLACE TRENCH PLUGS AT THE REQUIRED SPACING DURING UTILITY INSTALLATION. FOLLOW STREAM AND WETLAND CROSSING DETAILS LOCATED ON THE EROSION AND SEDIMENT CONTROL DRAWINGS FOR UTILITY CROSSINGS OF THESE FEATURES. SEE STREAM CROSSING PROCEDURES AND WETLAND CROSSING PROCEDURES FOR ADDITIONAL INFORMATION ON WATER BODY AND WETLAND CROSSING. DURING CONSTRUCTION, INSTALL AND MAINTAIN ANY ADDITIONAL EROSION AND SEDIMENT CONTROL BMP'S AND IMPLEMENT STRUCTURAL POST CONSTRUCTION STORMWATER BMP'S (PERMANENT WATERBARS) THAT MAY BE REQUIRED. SEE UTILITY LINE INSTALLATION REQUIREMENTS NOTES FOR LIMITS OF WORK.
2. ANY WATER ENCOUNTERED WITHIN THE EXCAVATION AREAS DURING CONSTRUCTION SHALL BE REMOVED BY USING PUMPS, HOSES, AND PUMPED WATER FILTER BAGS WHICH SHALL BE DISCHARGED INTO UNDISTURBED WELL-VEGETATED UPLAND AREAS.
3. BACKFILL AREAS EXCAVATED FOR THE INSTALLATION OF UTILITIES WITH SUITABLE EXCAVATED MATERIAL. IN AREAS WHERE TOPSOIL HAS BEEN SEGREGATED, THE SUBSOIL SHALL BE REPLACED FIRST, FOLLOWED BY THE TOPSOIL BEING SPREAD OVER THE AREA FROM WHICH IT WAS REMOVED. FINAL GRADES SHALL BE THE SAME AS PRE-CONSTRUCTION CONTOURS.
4. AFTER CONSTRUCTION IS COMPLETE, FINAL SEEDING AND MULCHING OF ALL DISTURBED AREAS NOT YET STABILIZED SHALL BE COMPLETED. INSTALL EROSION CONTROL BLANKETING ON SLOPES WHICH ARE 3:1 OR STEEPER. STABILIZE AND SEED ALL OPEN AREAS INCLUDING BORROW AND SPOIL AREAS.

IFC

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
					1	09/09/14	REVISED PER CONE COMMENTS



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SHERWOOD SOUTH PIPELINE

SWPPP DETAILS

STATION(S): N/A

One Gathering LLC

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE: 08/29/2014

JOB NO.: 90126

DESIGN: BEM

DRAWN: BEM

CHECKED: BJM

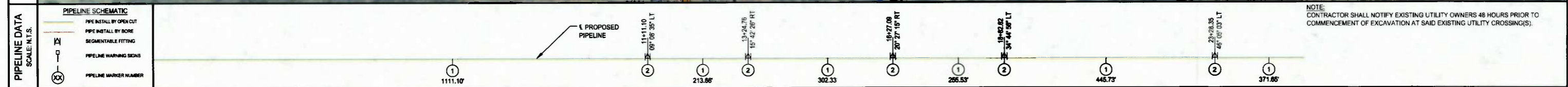
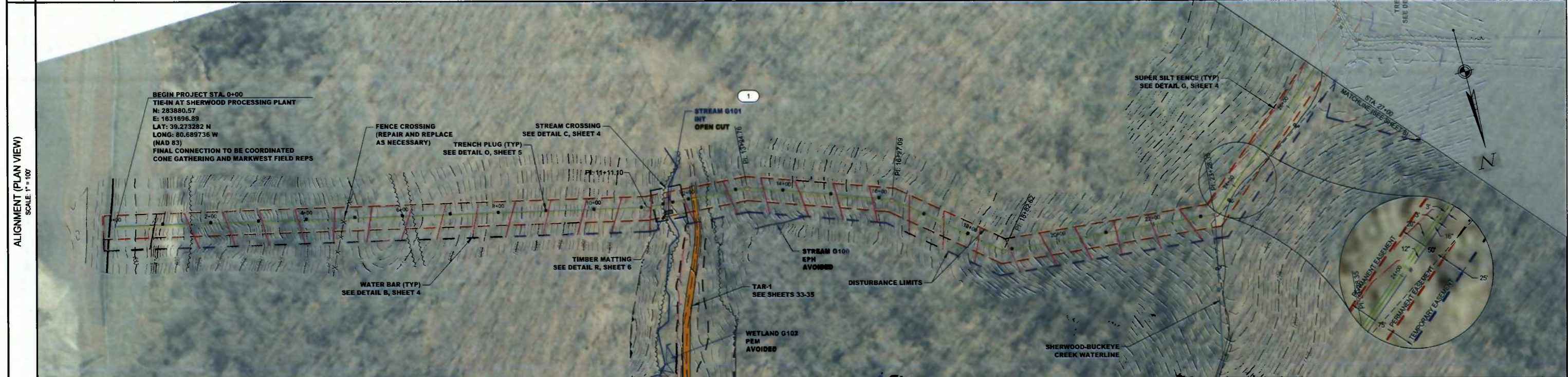
SHEET NO.

6 of 60



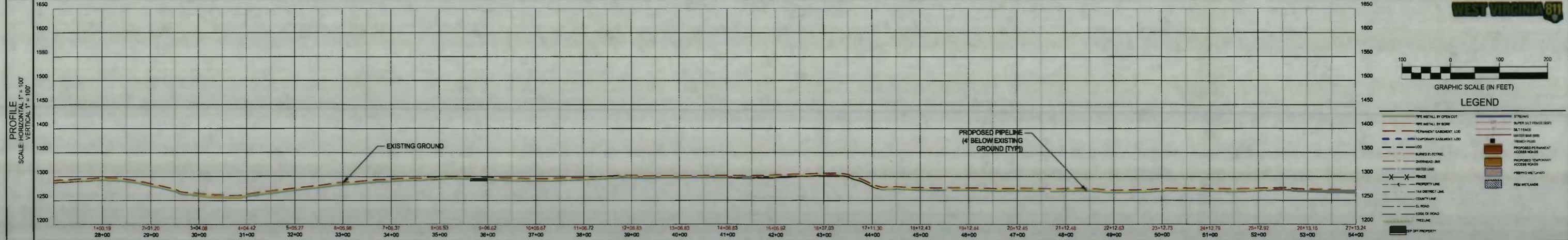
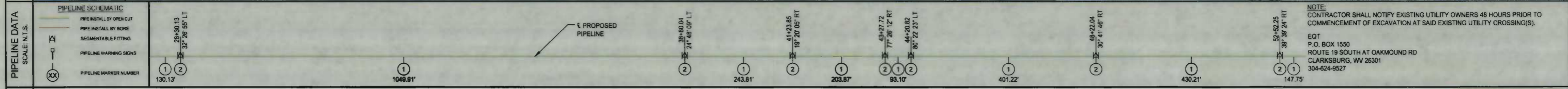
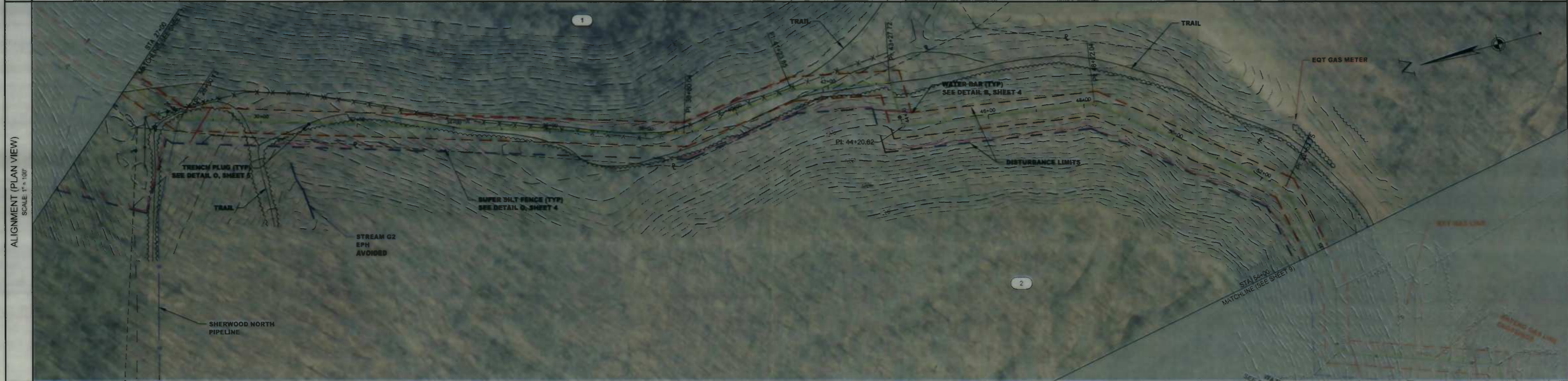
# GRANT DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

TOWNSHIP, COUNTY, STATE	GRANT DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA									
OWNER/PARCEL ID	(1) POWELL DENNIS & MELLIE M 09-03-0019-0031-0000-0000									
ENVIRONMENTAL	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS
STATIONS & TRAVERSE ANGLES	BEGIN PROJECT 0+00.00				11+11.10 09° 08' 35" LT	13+24.76 19° 42' 28" RT	16+27.09 20° 27' 15" RT	19+42.82 34° 44' 58" LT	23+28.35 46° 05' 03" LT	MATCHLINE 27+00.00



<h2>IFC</h2>	<b>SUMMARY OF MATERIALS</b>			<b>REFERENCE DRAWINGS</b>		<b>REVISIONS</b>		<b>ceso</b> CREATION TO COMPLETION www.cesoinc.com <i>Engineering • Architecture • Survey • Construction Mgt • Environmental</i>	<h3>SHERWOOD SOUTH PIPELINE</h3>  <h4>PIPELINE PLAN</h4>	<b>Gathering LLC</b> ONE ENERGY DRIVE JANE LEW, WV 26378	DATE: 08/29/2014													
	08/29/2014 DATE	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>MRKR #</th> <th>QTY.</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2915 LF</td> <td>PIPELINE (SLOPE LENGTH)</td> </tr> <tr> <td>2</td> <td>5 EA</td> <td>Elbow, 45° Segmentable Fitting</td> </tr> </tbody> </table>	MRKR #	QTY.	DESCRIPTION	1	2915 LF				PIPELINE (SLOPE LENGTH)	2	5 EA	Elbow, 45° Segmentable Fitting	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DWG.</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	DWG.	DESCRIPTION			<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>08/05/14</td> <td>REVISED PER CONE COMMENTS</td> </tr> </tbody> </table>	NO.	DATE	DESCRIPTION	1
MRKR #	QTY.	DESCRIPTION																						
1	2915 LF	PIPELINE (SLOPE LENGTH)																						
2	5 EA	Elbow, 45° Segmentable Fitting																						
DWG.	DESCRIPTION																							
NO.	DATE	DESCRIPTION																						
1	08/05/14	REVISED PER CONE COMMENTS																						
									DESIGN: BEM	DRAWN: BEM	CHECKED: BJM													
									SHEET NO.	7 of 60														

ENVIRONMENTAL	WOODS	WOODS	OPEN	WOODS	OPEN	WOODS
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**IFC**  
08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
1	2713 LF	PIPELINE (SLOPE LENGTH)			1	09/05/14	REVISED PER CONE COMMENTS
2	7 EA	Elbow, 45° Segmentable Fitting					

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**SHERWOOD SOUTH PIPELINE**  
**PIPELINE PLAN**  
STATION(S): 27+00 TO 54+00

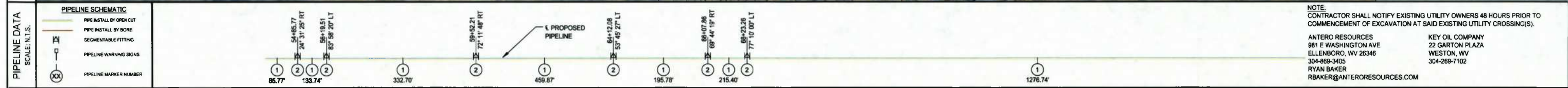
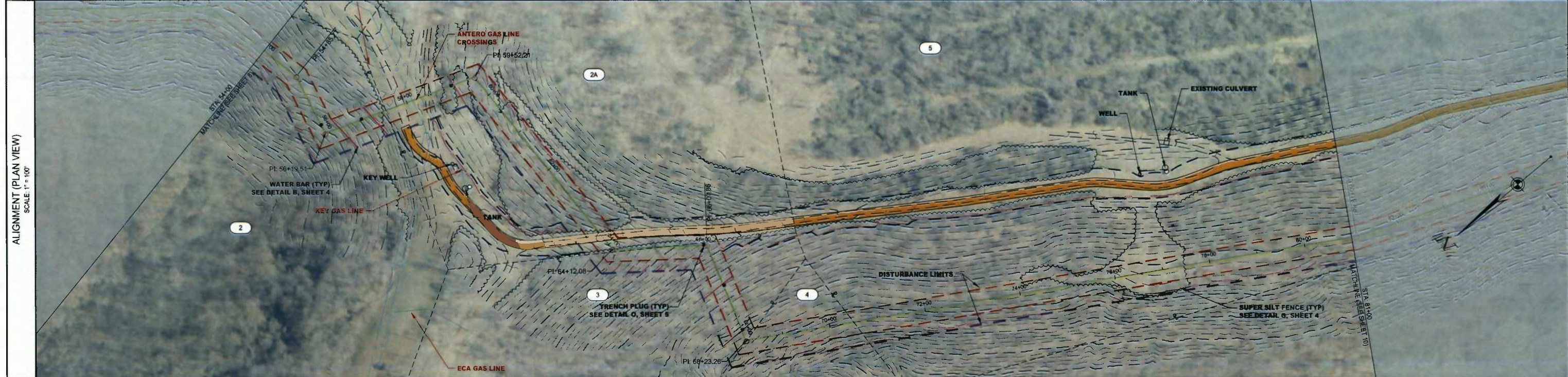
**Gathering LLC**  
ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE: 08/29/2014  
JOB NO.: 90126  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.  
**8 of 60**

# NEW MILTON DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

TOWNSHIP COUNTY, STATE						
OWNER/PARCEL ID	(2) BLAND ROBERT C & ARLENE R 09-06-0002-0002-0000-0000	(2A) BLAND ROBERT C & ARLENE R 09-06-0002-0006-0000-0000	(3) BLAND ROBERT C & ARLENE R 09-06-0002-0004-0000-0000	(4) BLAND ROBERT C & ARLENE R 09-06-0002-0004-0001-0000	(5) BLAND ROBERT C ET UX 09-06-0002-0009-0000-0000	
ENVIRONMENTAL	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN

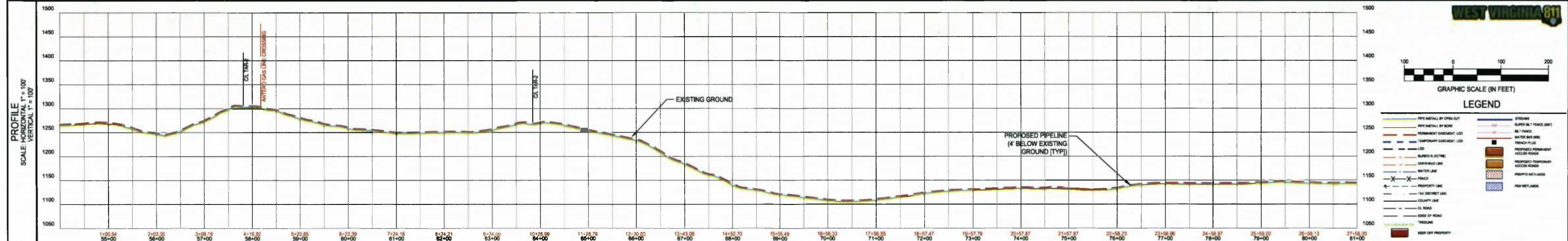
STATIONS & TRAVERSE ANGLES	MATCHLINE 54+00.00	54+85.77 24° 31' 25" RT	56+19.51 83° 58' 20" LT	59+52.21 72° 11' 48" RT	64+12.08 53° 45' 27" LT	66+07.86 68° 44' 19" RT	68+23.28 77° 10' 00" LT	MATCHLINE 81+00.00
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**NOTE:**  
CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).

ANTERO RESOURCES  
981 E WASHINGTON AVE  
ELLENBORO, WV 26346  
304-869-3405  
RYAN BAKER  
RBAKER@ANTERORESOURCES.COM

KEY OIL COMPANY  
22 GARTON PLAZA  
WESTON, WV  
304-269-7102



**WEST VIRGINIA 811**

GRAPHIC SCALE (IN FEET)

0 100 200

**LEGEND**

— PIPE INSTALL BY OPEN CUT	— STRAIGHT
--- PIPE INSTALL BY BORE	--- SUPER SILT FENCE (SFF)
- - - PERMANENT EASEMENT, L&S	- - - 8" FENCE
- - - TEMPORARY EASEMENT, L&S	- - - WATER MAIN LINE
- - - LED	- - - TRENCH PLUG
- - - RIGHT OF WAY LINE	- - - PROPOSED PERMANENT ACCESS ROAD
- - - OVERHEAD LINE	- - - PROPOSED TEMPORARY ACCESS ROAD
- - - WATER LINE	- - - PROPOSED METALINK
- - - FENCE	- - - PIPE WELLS
- - - PROPERTY LINE	- - - KEEP OFF PROPERTY
- - - TAX DISTRICT LINE	
- - - COUNTY LINE	
- - - TIE ROAD	
- - - EDGE OF ROAD	
- - - TREE LINE	

IFC

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS	
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE
1	2759 LF	PIPELINE (SLOPE LENGTH)			1	08/05/14
2	5 EA	Elbow, 45° Segmentable Fitting				REVISED PER CONE COMMENTS

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SHERWOOD SOUTH PIPELINE

PIPELINE PLAN

STATION(S): 54+00 TO 81+00

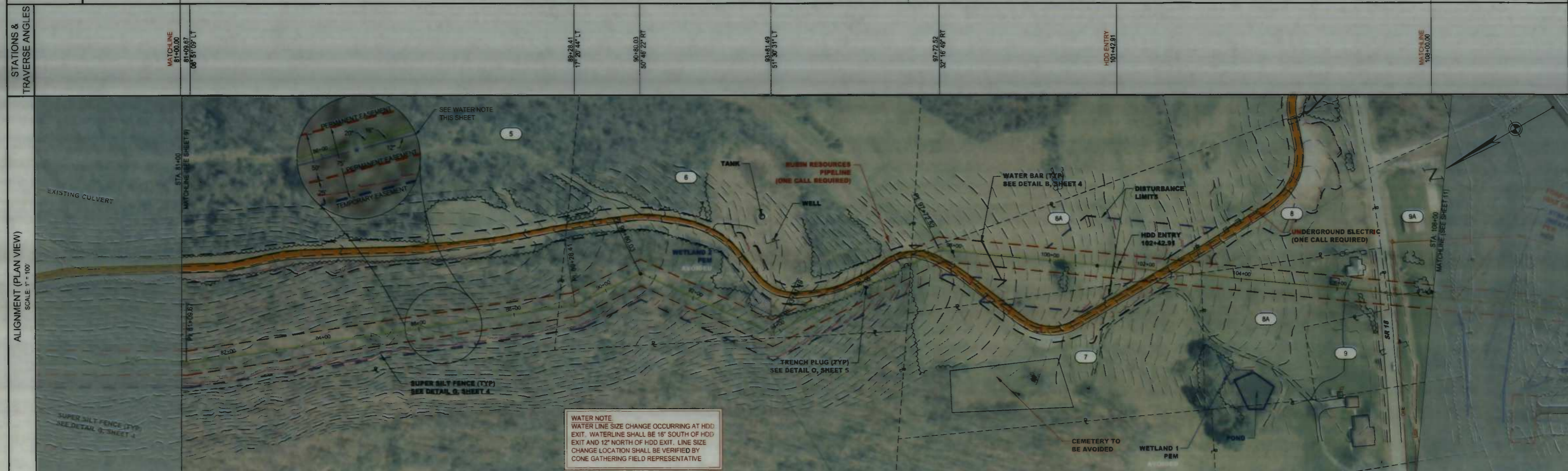
Stone Gathering LLC

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE:	08/29/2014
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	9 of 60

# NEW MILTON DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

TOWNSHIP COUNTY, STATE	NEW MILTON DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA									
OWNER/PARCEL ID	5 BLAND ROBERT C ET UX 09-06-0002-0009-0000-0000	6 BLAND ROBERT C ET UX 09-06-0004-0003-0000-0000	6A BLAND ROBERT C & ARLENE R 09-06-0004-0002-0003-0000	7 BLAND ROBERT C & ARLENE R 09-06-0004-0001-0007-0000	8 KELLEY NORMA LEE & DALE L 09-06-0004-0002-0001-0000	8A KELLEY NORMA LEE & DALE L 09-06-0004-0001-0005-0000	9 KELLEY NORMA LEE & DALE L 09-06-0004-0001-0004-0000	9A KELLEY NORMA LEE & DALE L 09-06-0004-0001-0003-0000		
ENVIRONMENTAL	WOODS					OPEN				



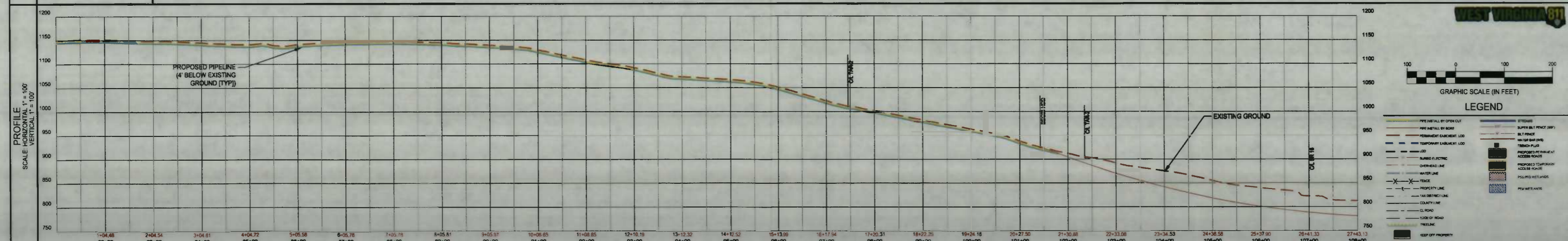
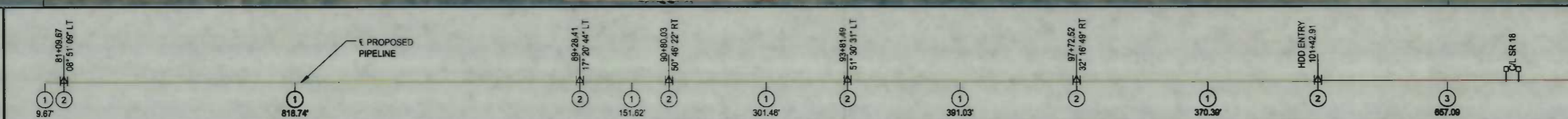
**WATER NOTE**  
 WATER LINE SIZE CHANGE OCCURRING AT HDD EXIT. WATERLINE SHALL BE 18" SOUTH OF HDD EXIT AND 12" NORTH OF HDD EXIT. LINE SIZE CHANGE LOCATION SHALL BE VERIFIED BY CONE GATHERING FIELD REPRESENTATIVE

**NOTE**  
 CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSINGS(S).  
 RUBIN RESOURCES  
 1007 BRIDGE RD #C  
 CHARLESTON, WV 25314  
 304-342-1205

**PIPELINE DATA**  
 SCALE: N.T.S.

**PIPELINE SCHEMATIC**

- PIPE INSTALL BY OPEN CUT
- PIPE INSTALL BY BORE
- SEGMENTABLE FITTING
- PIPELINE WARNING SIGNS
- PIPELINE MARKER NUMBER



**IFC**

08/29/2014  
DATE

SUMMARY OF MATERIALS		REFERENCE DRAWINGS		REVISIONS	
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO. DATE DESCRIPTION
1	2105 LF	PIPELINE (SLOPE LENGTH)			1 09/05/14 REVISED PER CONE COMMENTS
2	8 EA	Elbow, 45° Segmentable Fitting			
3	676 LF	BORED PIPELINE (SLOPE LENGTH)			
4	2 EA	PIPELINE MARKER			

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**SHERWOOD SOUTH PIPELINE**

**PIPELINE PLAN**

STATION(S): 81+00 TO 108+00

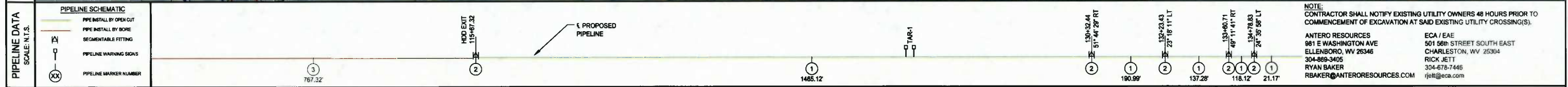
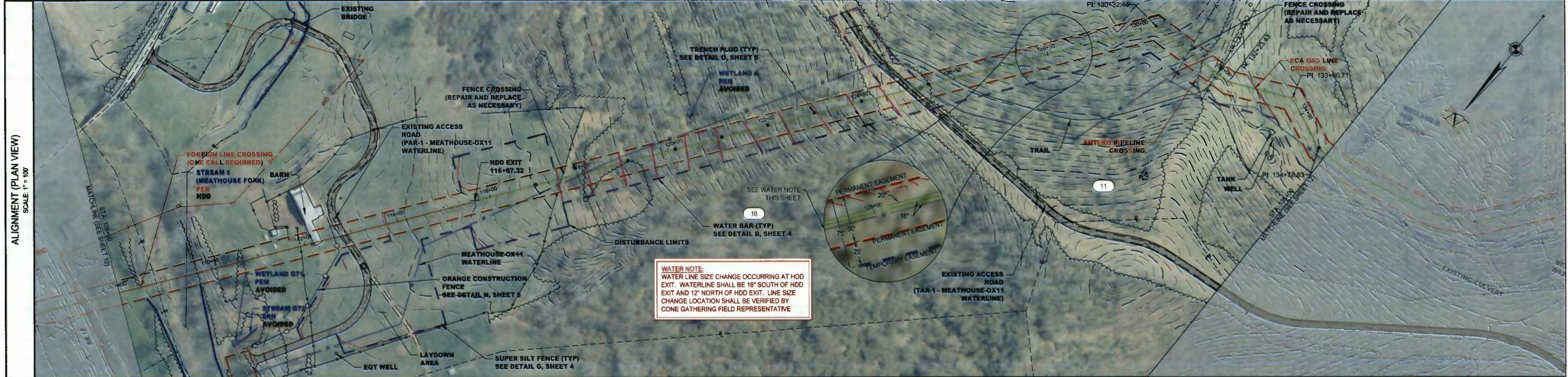
**cone Gathering LLC**

ONE ENERGY DRIVE  
 JANE LEW, WV 26378

DATE:	08/29/2014
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.:	10 of 60

# NEW MILTON DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

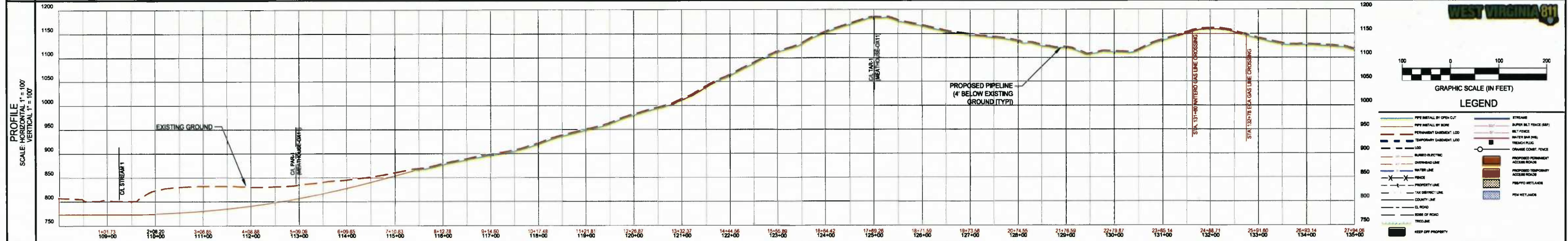
TOWNSHIP COUNTY, STATE										
OWNER/PARCEL ID	10 DONAHOO DENISE W 09-06-0003-0007-0001-0000					11 MAXWELL LEWIS FREDERICK 09-06-0003-0011-0000-0000				
ENVIRONMENTAL	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS
STATIONS & TRAVERSE ANGLES	MATCHLINE 108+00.00 HDD EXIT 116+67.32 130+32.44 51° 41' 23" RT 132+23.43 23° 18' 11" LT 133+80.71 49° 11' 41" RT 134+78.83 24° 35' 58" LT MATCHLINE 135+00.00									



NOTE:  
CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).

ANTERO RESOURCES  
981 E WASHINGTON AVE  
ELLENBORO, WV 26346  
304-859-3405  
RYAN BAKER  
RBAKER@ANTERORESOURCES.COM

ECA / EAE  
501 58TH STREET SOUTH EAST  
CHARLESTON, WV 25304  
304-678-7446  
RICK JETT  
RJETT@ECA.COM



**IFC**

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS	
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE
1	2044 LF	PIPELINE (SLOPE LENGTH)			1	08/05/14
2	5 EA	Elbow, 45° Segmentable Fitting				
3	780 LF	BORED PIPELINE (SLOPE LENGTH)				
4	2 EA	PIPELINE MARKER				

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**SHERWOOD SOUTH PIPELINE**

PIPELINE PLAN

STATION(S): 108+00 TO 135+00

**Antero Gathering LLC**

ONE ENERGY DRIVE  
JANE LEW, WV 26378

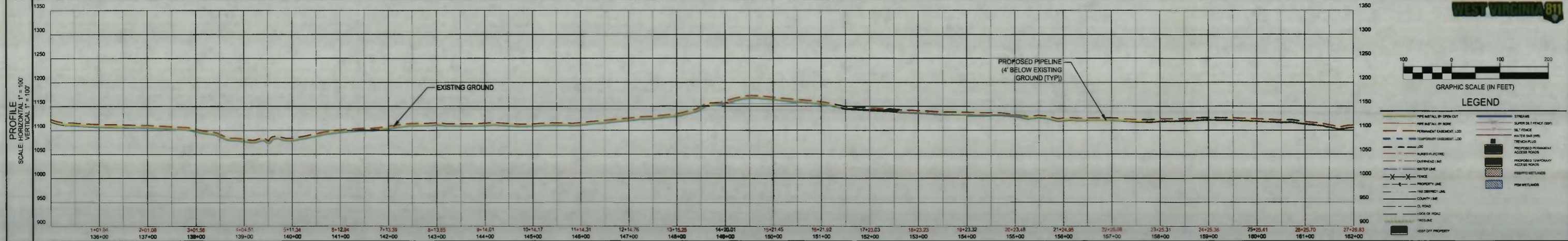
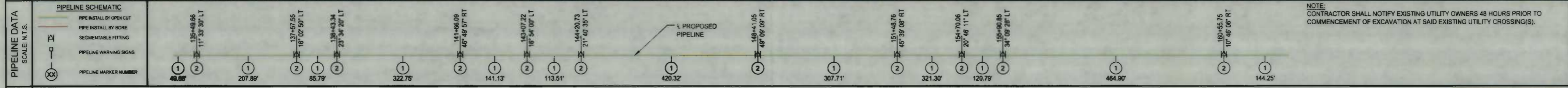
DATE:	08/29/2014
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	11 of 60

TOWNSHIP COUNTY, STATE

# NEW MILTON DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

OWNER/PARCEL ID	11 MAXWELL LEWIS FREDERICK 09-06-0003-0011-0000-0000	12 MAXWELL ROBERT G 09-06-0003-0012-0000-0000
ENVIRONMENTAL	OPEN    WOODS    OPEN WOODS    OPEN    WOODS    OPEN    WOODS	

STATIONS & TRAVERSE ANGLES	MATCHLINE 135+00.00	135+49.68 11° 33' 30" LT	137+57.55 16° 02' 50" LT	139+43.34 23° 34' 20" LT	141+66.09 48° 49' 57" RT	143+07.22 16° 54' 00" LT	144+20.73 21° 40' 35" LT	148+41.05 48° 09' 09" RT	151+48.76 45° 39' 08" RT	154+70.06 20° 46' 11" LT	155+90.85 34° 09' 28" LT	160+55.75 10° 46' 06" RT	MATCHLINE 162+00.00
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**IFC**

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS	
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE
1	2727 LF	PIPELINE (SLOPE LENGTH)			1	09/09/14
2	11 EA	Elbow, 45° Segmentable Fitting				

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**SHERWOOD SOUTH PIPELINE**

PIPELINE PLAN

STATION(S): 135+00 TO 162+00

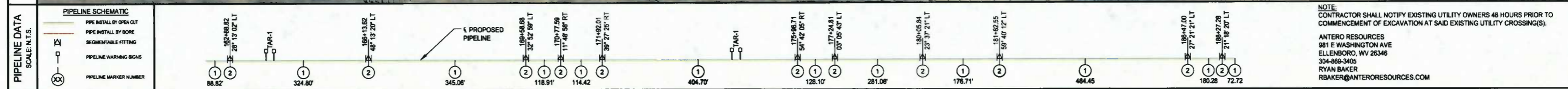
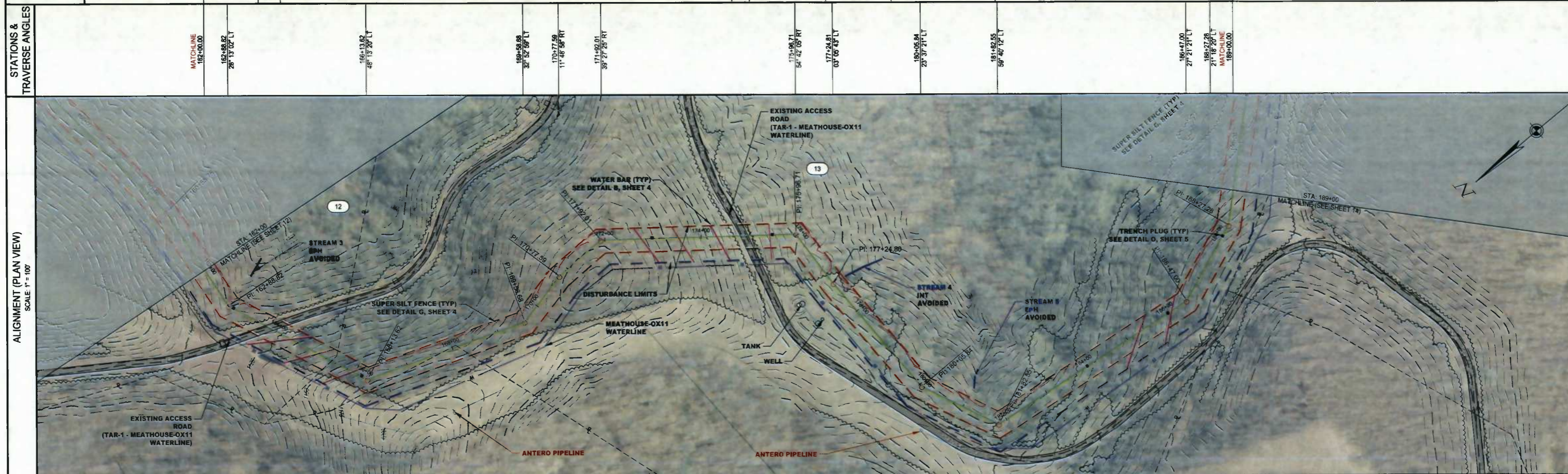
**Gathering LLC**

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE:	08/29/2014
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	12 of 60

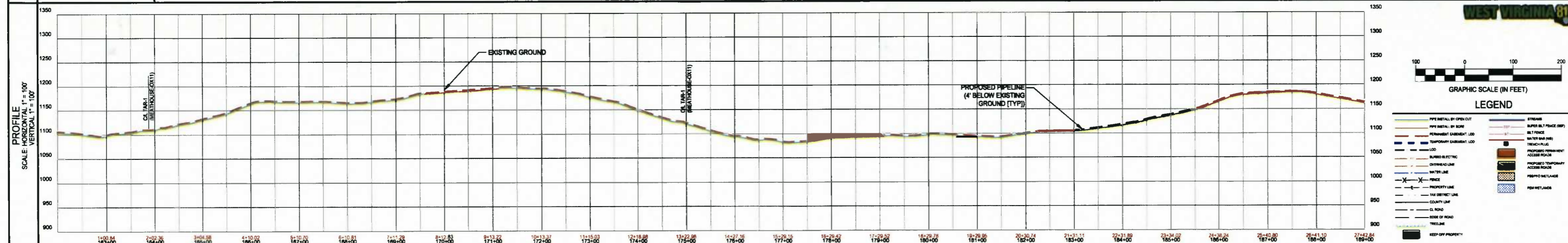
# NEW MILTON DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

TOWNSHIP, COUNTY, STATE										
OWNER/PARCEL ID	12 MAXWELL ROBERT G 09-06-0003-0012-0000-0000					13 MAXWELL ROBERT GAYLE 09-06-0003-0012-0001-0000				
ENVIRONMENTAL	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS	



**NOTE:**  
CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSINGS.

ANTERO RESOURCES  
981 E WASHINGTON AVE  
ELLENBORO, WV 26346  
304-869-3405  
RYAN BAKER  
RBAKER@ANTERORESOURCES.COM



**IFC**

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS	
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE
1	2743 LF	PIPELINE (SLOPE LENGTH)			1	08/09/14
2	11 EA	Elbow, 45° Segmentable Fitting				
4	4 EA	PIPELINE MARKER				

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**SHERWOOD SOUTH PIPELINE**

**PIPELINE PLAN**

STATION(S): 162+00 TO 189+00

**Gathering LLC**

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE: 08/29/2014

JOB NO.: 90126

DESIGN: BEM

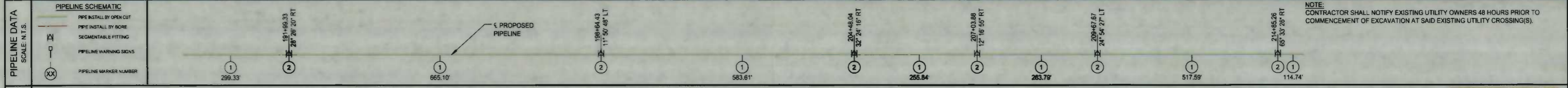
DRAWN: BEM

CHECKED: BJM

SHEET NO.  
**13 of 60**

# NEW MILTON DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

TOWNSHIP, COUNTY, STATE							
OWNER/PARCEL ID	13 MAXWELL ROBERT GAYLE 09-06-0003-0012-0001-0000						
ENVIRONMENTAL	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS
STATIONS & TRAVERSE ANGLES	189+00.00 MATCHLINE	191+99.33 28° 26' 20" RT	198+64.43 11° 50' 48" LT	204+48.04 32° 24' 16" RT	207+03.88 12° 16' 55" RT	209+67.67 24° 54' 27" LT	214+85.71 65° 33' 26" RT MATCHLINE 216+00.00



NOTE: CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).



**IFC**  
08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS	
MIRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE
1	2812 LF	PIPELINE (SLOPE LENGTH)			1	09/05/14
2	8 EA	Elbow, 45° Segmentable Fitting				

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**SHERWOOD SOUTH PIPELINE**  
  
**PIPELINE PLAN**  
  
STATION(S): 189+00 TO 216+00

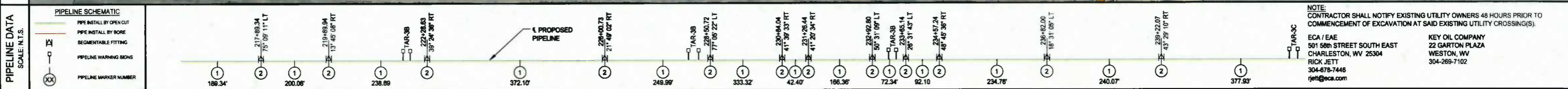
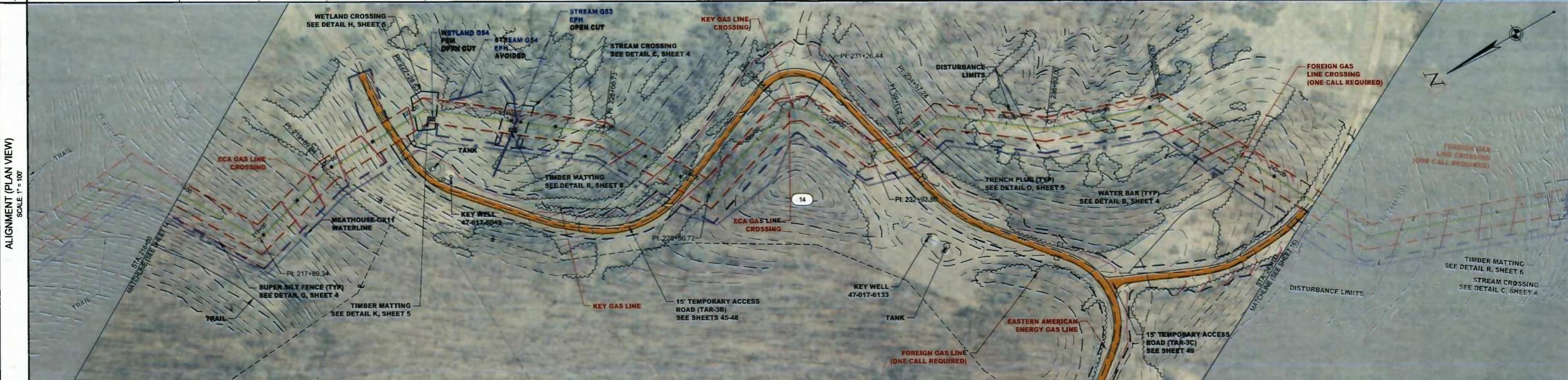
**One Gathering LLC**  
  
ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE: 08/29/2014  
JOB NO.: 90126  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.  
**14 of 60**



# NEW MILTON DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

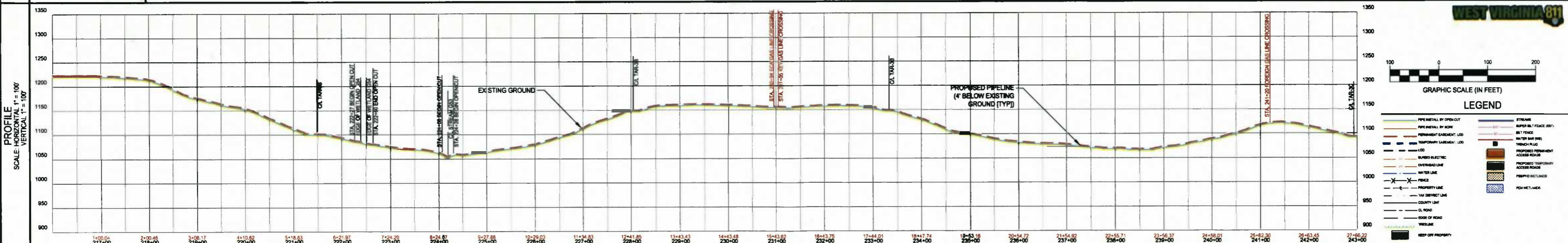
TOWNSHIP, COUNTY, STATE	MORRIS LIKE 09-06-0007-0001-0000-0000												
OWNER/PARCEL ID	14												
ENVIRONMENTAL	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN	
STATIONS & TRAVERSE ANGLES	MATCHLINE 216+00.00	217+89.34 75° 08' 11" LT	219+89.94 13° 45' 08" RT	222+26.63 39° 24' 36" RT	224+90.73 21° 48' 02" RT	228+50.72 77° 05' 22" LT	230+84.04 41° 39' 33" RT 231+28.44 41° 20' 34" RT	232+92.80 50° 31' 09" LT	233+65.14 26° 31' 43" LT	234+57.24 48° 48' 36" RT	236+82.00 18° 31' 05" LT	239+22.07 43° 29' 10" RT	MATCHLINE 243+00.00



**NOTE:** CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).

ECA / EAE  
501 56th STREET SOUTH EAST  
CHARLESTON, WV 25304  
RICK JETT  
304-678-7446  
rjett@eca.com

KEY OIL COMPANY  
22 GARTON PLAZA  
WESTON, WV  
304-269-7102



**IFC**

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
1	2786 LF	PIPELINE (SLOPE LENGTH)			1	08/05/14	REVISED PER CONE COMMENTS
2	12 EA	Elbow, 45° Segmentable Fitting					
4	8 EA	PIPELINE MARKER					

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**SHERWOOD SOUTH PIPELINE**

**PIPELINE PLAN**

STATION(S): 216+00 TO 243+00

**Gathering LLC**

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE:	08/29/2014
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	15 of 60

# NEW MILTON DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

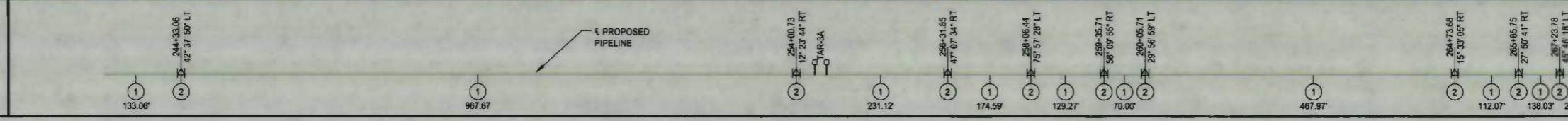
TOWNSHIP, COUNTY, STATE	MORRIS I LIKE 09-06-0007-0001-0000-0000											
OWNER/PARCEL ID												
ENVIRONMENTAL	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS		
STATIONS & TRAVERSE ANGLES	MATCHLINE 243+00.00	244+33.06 42° 37' 50" LT		254+00.73 12° 23' 44" RT	256+31.85 47° 07' 34" RT	258+06.44 75° 57' 28" LT	259+35.71 58° 09' 55" RT	260+05.71 29° 56' 59" LT	264+73.68 15° 33' 05" RT	265+85.75 27° 50' 41" RT	267+23.78 45° 46' 18" LT	MATCHLINE 270+00.00



**PIPELINE SCHEMATIC**

SCALE: N.T.S.

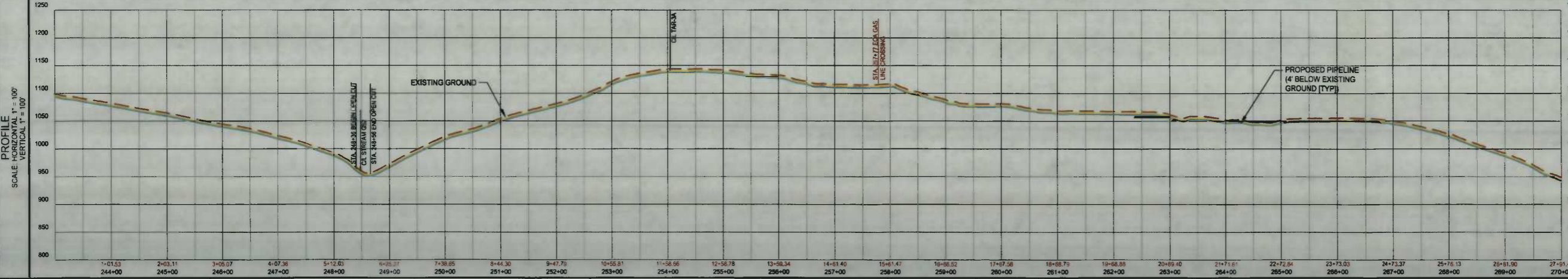
- PIPE INSTALL BY OPEN CUT
- PIPE INSTALL BY BORE
- SEGMENTABLE FITTING
- PIPELINE WARNING SIGNS
- PIPELINE MARKER NUMBER



**NOTE:**  
CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).

ECA / EAE  
501 56th STREET SOUTH EAST  
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rjett@eca.com

KEY OIL COMPANY  
22 GARTON PLAZA  
WESTON, WV  
304-269-7102



**WEST VIRGINIA 811**

100 0 100 200  
GRAPHIC SCALE (IN FEET)

**LEGEND**

PIPE INSTALL BY OPEN CUT	STREAM
PIPE INSTALL BY BORE	SUPER SILT FENCE (TYP)
SEGMENTABLE FITTING	SALT FENCE
PIPELINE WARNING SIGNS	WATER BAS (TYP)
PIPELINE MARKER NUMBER	TRENCH PLUG
PROPOSED PERMANENT ACCESS ROAD	PROPOSED TEMPORARY ACCESS ROAD
PROPOSED WETLANDS	PERMIT AREAS
EXISTING UTILITY	FENCE
PROPOSED PERMANENT ACCESS ROAD	PROPERTY LINE
PROPOSED TEMPORARY ACCESS ROAD	TAX DISTRICT LINE
PERMIT AREAS	COUNTY LINE
FENCE	CL ROAD
PROPERTY LINE	SIDE OF POND
TAX DISTRICT LINE	TREE LINE
COUNTY LINE	KEEP OFF PROPERTY

IFC

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
1	2791 LF	PIPELINE (SLOPE LENGTH)					
2	9 EA	Elbow, 45° Segmentable Fitting					
4	2 EA	PIPELINE MARKER					

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SHERWOOD SOUTH PIPELINE

PIPELINE PLAN

STATION(S): 243+00 TO 270+00

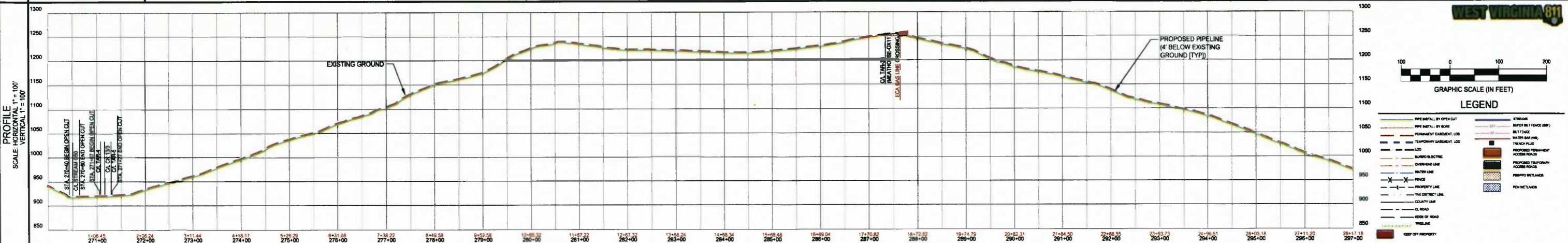
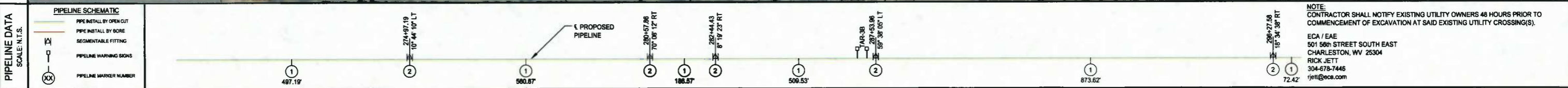
One Gathering LLC

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE:	08/29/2014
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	16 of 60

# NEW MILTON DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

TOWNSHIP, COUNTY, STATE					
OWNER/PARCEL ID	MORRIS I L I K E 09-06-0007-0001-0000-0000				
ENVIRONMENTAL	WOODS	OPEN	WOODS	OPEN	WOODS
STATIONS & TRAVERSE ANGLES	MATCHLINE 270+00	274+97.19 10° 44' 10" LT	280+57.86 70° 08' 12" RT	282+44.43 8° 19' 23" RT	287+53.96 59° 38' 05" LT
	MATCHLINE 287+00				296+27.58 18° 34' 38" RT MATCHLINE 297+00



**IFC**  
08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS	
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE
1	2817 LF	PIPELINE (SLOPE LENGTH)			1	08/09/14
2	5 EA	Elbow, 45° Segmentable Fitting				
4	2 EA	PIPELINE MARKER				

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**SHERWOOD SOUTH PIPELINE**  
  
**PIPELINE PLAN**  
  
STATION(S): 270+00 TO 297+00

**One Gathering LLC**  
ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE:	08/29/2014
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	17 of 60

# NEW MILTON DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

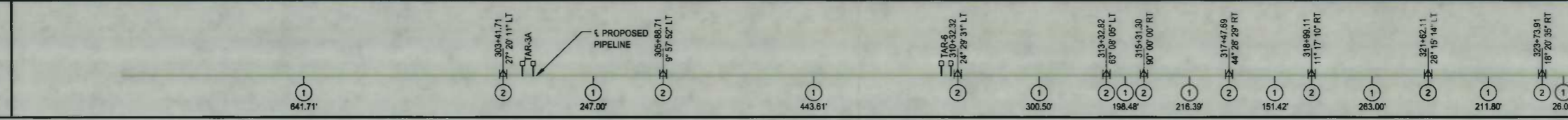
TOWNSHIP, COUNTY, STATE	MORRIS I L I K E 09-06-0007-0001-0000-0000									
OWNER/PARCEL ID	14									
ENVIRONMENTAL	WOODS	OPEN	WOODS	OPEN	WOODS	WOODS	WOODS	WOODS	WOODS	WOODS
STATIONS & TRAVERSE ANGLES	MATCHLINE 297+00	303+41.71 27° 20' 11" LT	305+88.71 9° 57' 52" LT	310+32.32 24° 29' 31" LT	313+32.82 65° 08' 05" LT 315+31.30 90° 00' 00" RT	317+47.69 44° 28' 29" RT	318+99.11 11° 17' 10" RT	321+62.11 28° 15' 14" LT	323+73.91 18° 20' 35" RT MATCHLINE 324+00	MATCHLINE 324+00



**PIPELINE DATA**  
SCALE: N.T.S.

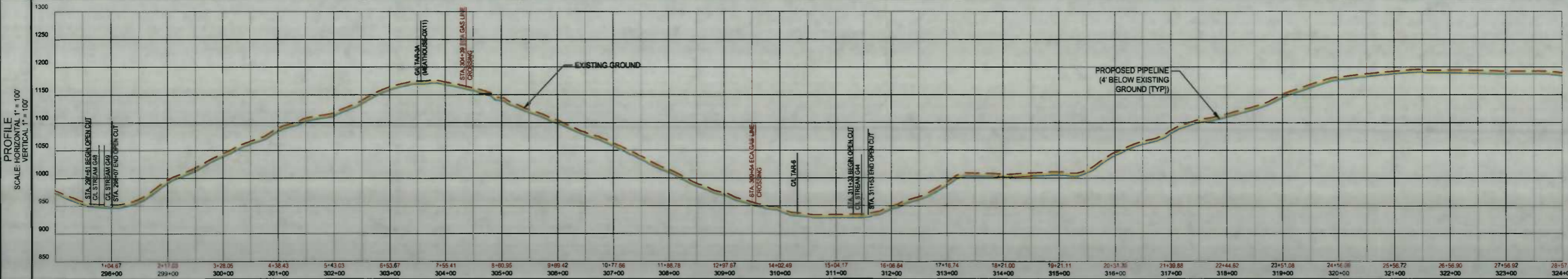
**PIPELINE SCHEMATIC**

- PIPE INSTALL BY OPEN CUT
- PIPE INSTALL BY BORE
- SEGMENTABLE FITTING
- PIPELINE WARNING SIGNS
- XX PIPELINE MARKER NUMBER



NOTE: CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).

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CHARLESTON, WV 25304  
RICK JETT  
304-678-7446  
rjett@eca.com



**WEST VIRGINIA 611**

100 0 100 200  
GRAPHIC SCALE (IN FEET)

**LEGEND**

<span style="color: red;">—</span> PIPE INSTALL BY OPEN CUT	<span style="color: blue;">—</span> PIPE INSTALL BY BORE	<span style="color: red;">—</span> SEGMENTABLE FITTING	<span style="color: red;">—</span> PIPELINE WARNING SIGNS	<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">XX</span> PIPELINE MARKER NUMBER
<span style="color: red;">—</span> TEMPORARY GASEMENT LOG	<span style="color: blue;">—</span> PERMANENT GASEMENT LOG	<span style="color: red;">—</span> SUPER SILT FENCE (TYP)	<span style="color: blue;">—</span> SUPER SILT FENCE (ESP)	<span style="color: red;">—</span> BELT FENCE
<span style="color: red;">—</span> WATER BAR (TYP)	<span style="color: blue;">—</span> WATER BAR (ESP)	<span style="color: red;">—</span> TRENCH PLUG	<span style="color: blue;">—</span> PROPOSED TEMPORARY ACCESS ROAD	<span style="color: red;">—</span> PROPOSED PERMANENT ACCESS ROAD
<span style="color: red;">—</span> PROPERTY LINE	<span style="color: blue;">—</span> PROPERTY LINE	<span style="color: red;">—</span> TOWNSHIP	<span style="color: blue;">—</span> COUNTY LINE	<span style="color: red;">—</span> CL ROAD
<span style="color: red;">—</span> TOWNSHIP	<span style="color: blue;">—</span> COUNTY LINE	<span style="color: red;">—</span> CL ROAD	<span style="color: blue;">—</span> SIDE OF ROAD	<span style="color: red;">—</span> PROPOSED
<span style="color: red;">—</span> PROPOSED	<span style="color: blue;">—</span> EXISTING PROPERTY	<span style="color: red;">—</span> EXISTING PROPERTY	<span style="color: blue;">—</span> EXISTING PROPERTY	<span style="color: red;">—</span> EXISTING PROPERTY

IFC

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
1	2857 LF	PIPELINE (SLOPE LENGTH)			1	09/05/14	REVISED PER CONE COMMENTS
2	9 EA	Elbow, 45° Segmentable Fitting					
4	4 EA	PIPELINE MARKER					

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SHERWOOD SOUTH PIPELINE

PIPELINE PLAN

STATION(S): 297+00 TO 324+00

Gathering LLC

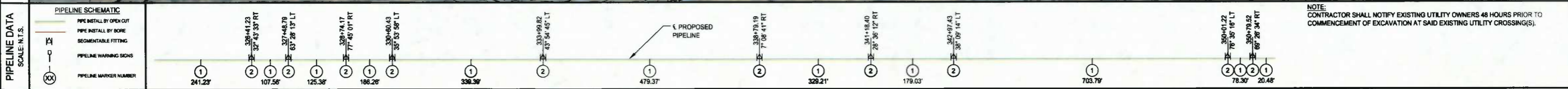
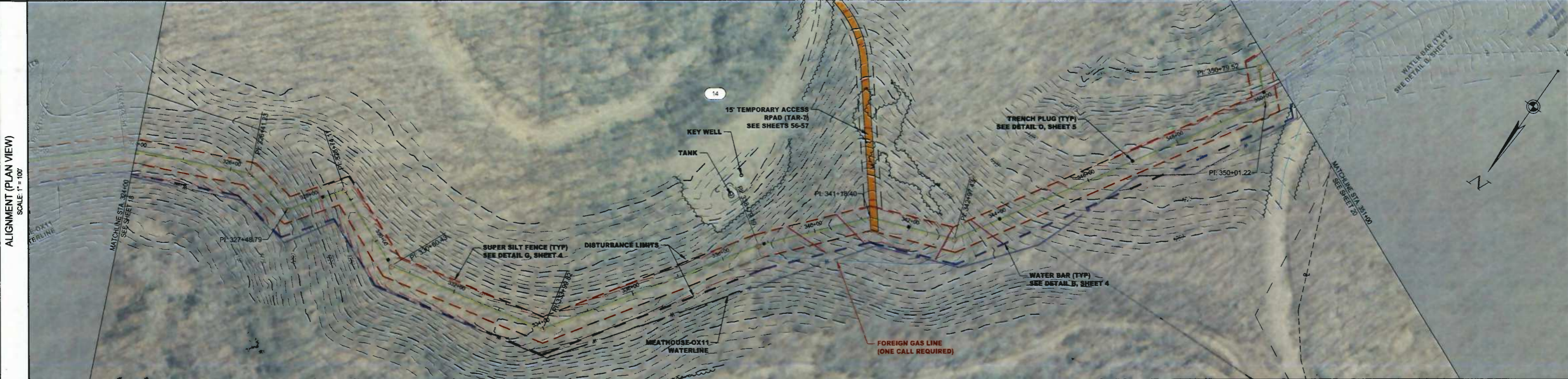
ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE:	08/29/2014
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	18 of 60

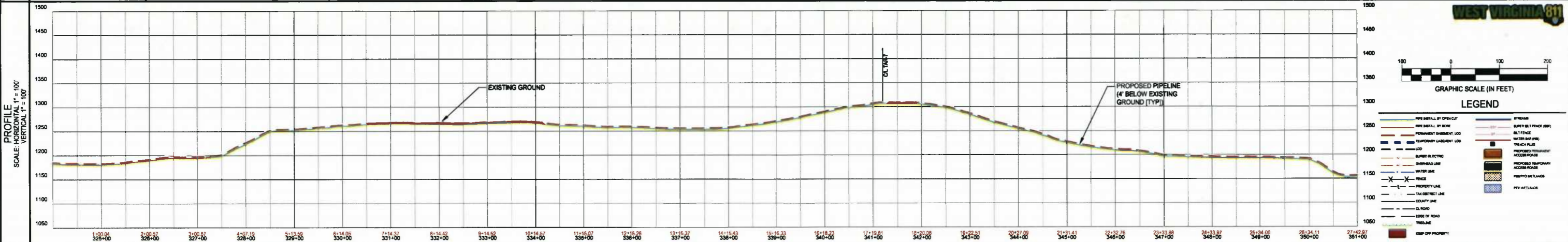
# NEW MILTON DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

TOWNSHIP COUNTY, STATE	MORRIS I L IKE 09-06-0007-0001-0000-0000	
OWNER/PARCEL ID	14	
ENVIRONMENTAL	WOODS	

STATIONS & TRAVERSE ANGLES	MATCHLINE STA 324+00	326+41.23 32° 49' 33" RT	327+48.79 63° 28' 13" LT	328+74.17 77° 45' 01" RT	330+60.43 35° 53' 58" LT	333+09.82 43° 54' 45" LT	336+79.19 7° 08' 41" RT	341+18.40 28° 36' 12" RT	342+07.43 38° 08' 14" LT	350+01.22 76° 35' 16" LT 350+79.52 68° 28' 34" RT MATCHLINE STA 351+00
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NOTE: CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).



**IFC**

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
1	2743 LF	PIPELINE (SLOPE LENGTH)			1	08/09/14	REVISED PER CONE COMMENTS
2	10 EA	Elbow, 45° Segmentable Fitting					

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**SHERWOOD SOUTH PIPELINE**

**PIPELINE PLAN**

STATION(S): 324+00 TO 351+00

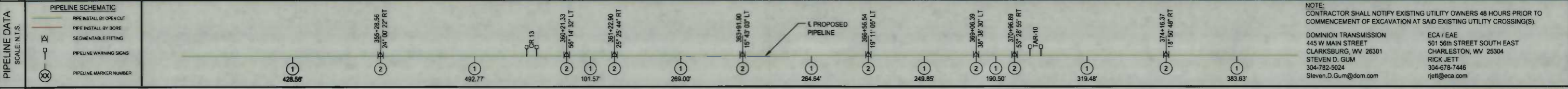
**Gathering LLC**

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE:	08/29/2014
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	19 of 60

# NEW MILTON DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

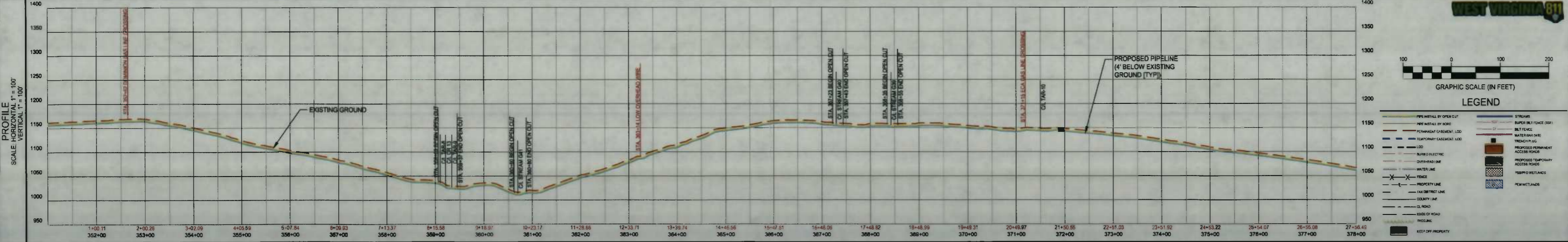
TOWNSHIP, COUNTY, STATE													
OWNER/PARCEL ID	MORRIS I LIKE 09-06-0007-0001-0000-0000												
ENVIRONMENTAL	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS
STATIONS & TRAVERSE ANGLES	MATCHLINE 351+00		355+28.56 24° 00' 22" RT		360+21.33 56° 14' 32" LT	361+22.90 25° 25' 44" RT	363+491.90 15° 43' 03" LT	366+56.54 19° 11' 05" LT	369+06.39 38° 38' 30" LT	370+96.89 53° 28' 55" RT		374+16.37 16° 50' 48" RT	MATCHLINE 378+00



NOTE: CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).

DOMINION TRANSMISSION  
445 W MAIN STREET  
CLARKSBURG, WV 26301  
STEVEN D. GUM  
304-782-5024  
Steven.D.Gum@dom.com

ECA / EAE  
501 56th STREET SOUTH EAST  
CHARLESTON, WV 25304  
RICK JETT  
304-678-7446  
rjett@eca.com



**WEST VIRGINIA 811**

GRAPHIC SCALE (IN FEET)

LEGEND

- PIPE INSTALL BY OPEN CUT
- PIPE INSTALL BY BORE
- SEGMENTABLE FITTING
- PIPELINE WARNING SIGNS
- PIPELINE MARKER NUMBER
- STREAM
- SUPER SILT FENCE (TYP)
- BILT FENCE
- WATER BAR (TYP)
- TRENCH PLUG
- PROPOSED PERMANENT ACCESS ROADS
- PROPOSED TEMPORARY ACCESS ROADS
- PERMITS WETLANDS
- PERMITS WETLANDS
- PROPERTY LINE
- TAX DISTRICT LINE
- COUNTY LINE
- CL ROAD
- EDGE OF ROAD
- TRAILING
- KEEP OFF PROPERTY

IFC

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS	
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE
1	2756 LF	PIPELINE (SLOPE LENGTH)			1	09/09/14
2	8 EA	Elbow, 45° Segmentable Fitting				
4	4 EA	PIPELINE MARKER				

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SHERWOOD SOUTH PIPELINE

PIPELINE PLAN

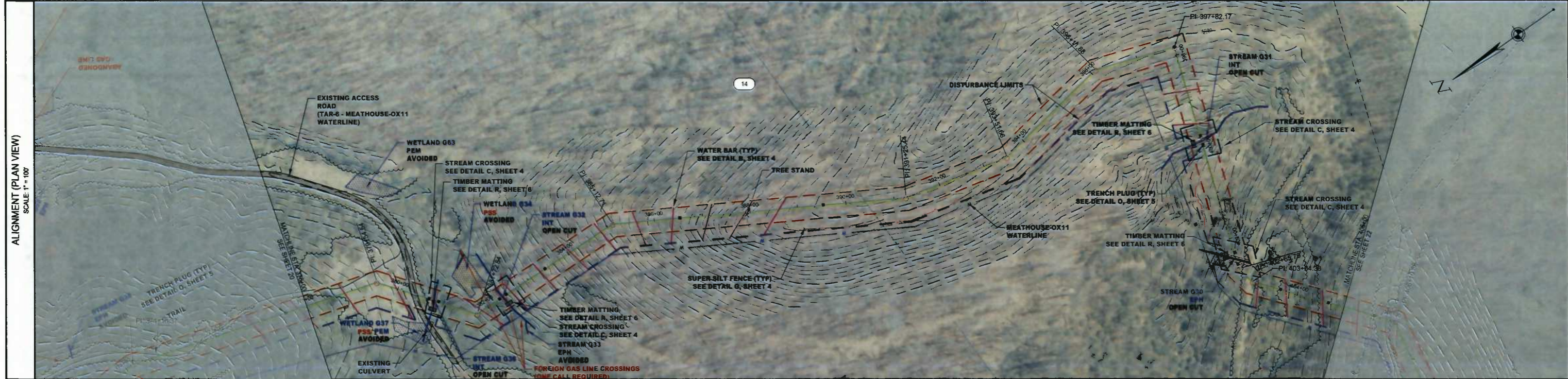
STATION(S): 351+00 TO 378+00

Gathering LLC

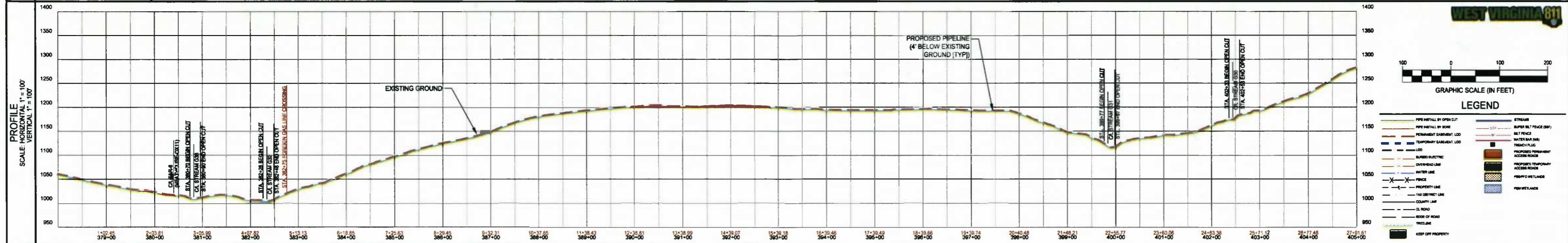
ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE:	08/29/2014
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	20 of 60

ENVIRONMENTAL	WOODS	OPEN	WOODS	WOODS	OPEN	WOODS	OPEN	WOODS
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NOTE: CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).



**IFC**  
08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS	
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE
1	2792 LF	PIPELINE (SLOPE LENGTH)			1	08/09/14
2	9 EA	Elbow, 45° Segmentable Fitting				
4	2 EA	PIPELINE MARKER				

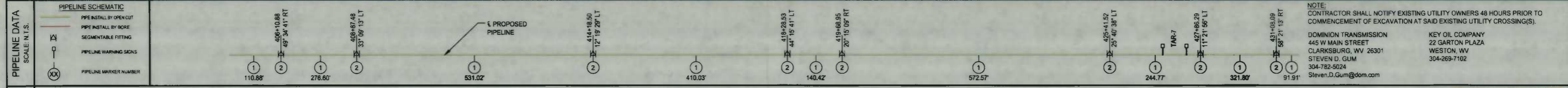
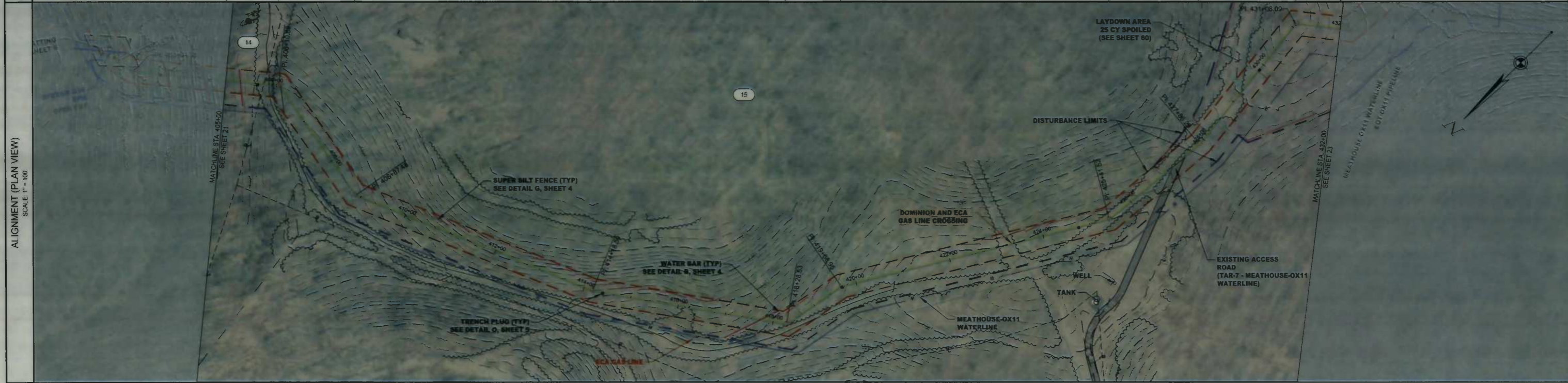
**SHERWOOD SOUTH PIPELINE**  
**PIPELINE PLAN**  
STATION(S): 378+00 TO 405+00

**Gathering LLC**  
ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE:	08/29/2014
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	21 of 60

STATIONS & TRAVERSE ANGLES

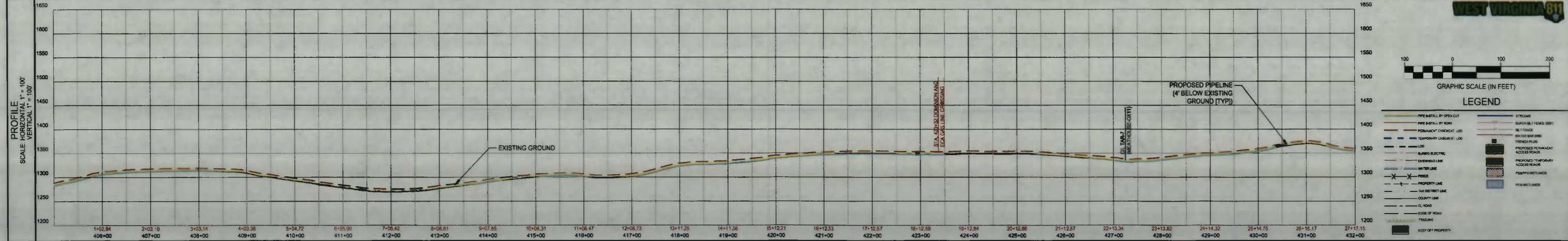
405+00	406+10.88 49° 34' 41" RT	408+87.48 33° 09' 13" LT	414+18.50 12° 19' 29" LT	418+28.53 44° 15' 41" LT	419+68.95 20° 15' 09" RT	425+41.52 25° 40' 38" LT	427+86.29 11° 21' 56" LT	431+08.09 58° 21' 13" RT	432+00
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NOTE: CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).

DOMINION TRANSMISSION  
 445 W MAIN STREET  
 CLARKSBURG, WV 26301  
 STEVEN D. GUM  
 304-782-5024  
 Steven.D.Gum@dom.com

KEY OIL COMPANY  
 22 GARTON PLAZA  
 WESTON, WV  
 304-269-7102



**IFC**

08/29/2014  
 DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
1	2717 LF	PIPELINE (SLOPE LENGTH)			1	09/05/14	REVISED PER CONE COMMENTS
2	8 EA	Elbow, 45° Segmentable Fitting					
4	2 EA	PIPELINE MARKER					

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**SHERWOOD SOUTH PIPELINE**

PIPELINE PLAN

STATION(S): 405+00 TO 432+00

**more Gathering LLC**

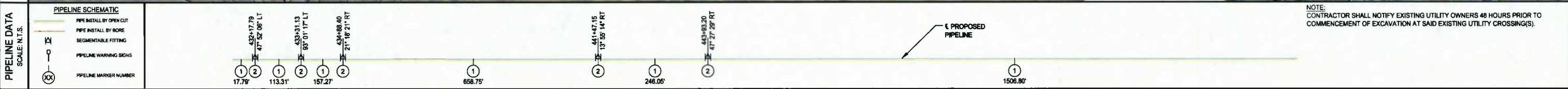
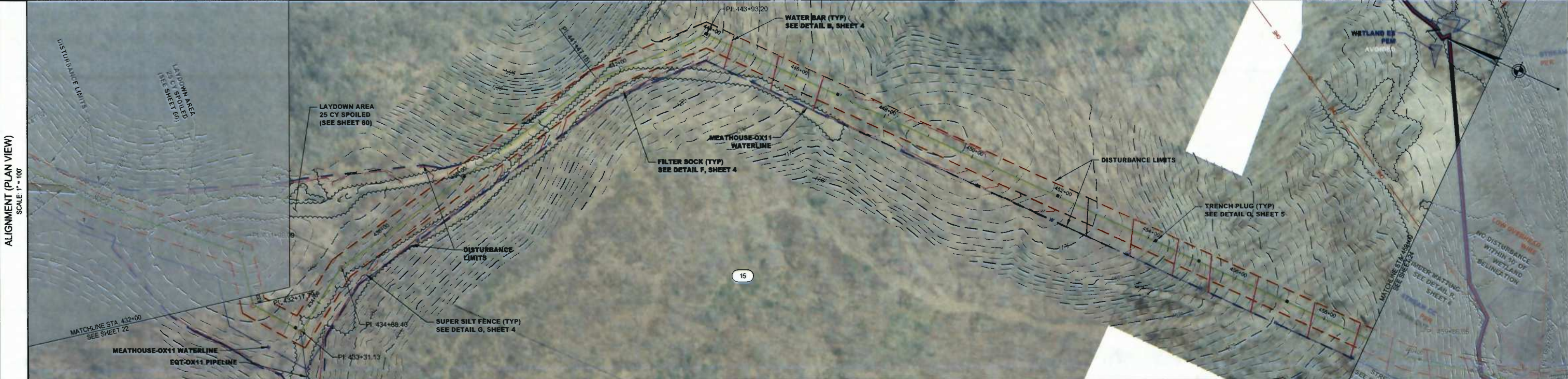
ONE ENERGY DRIVE  
 JANE LEW, WV 26378

DATE:	08/29/2014
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.:	22 of 60

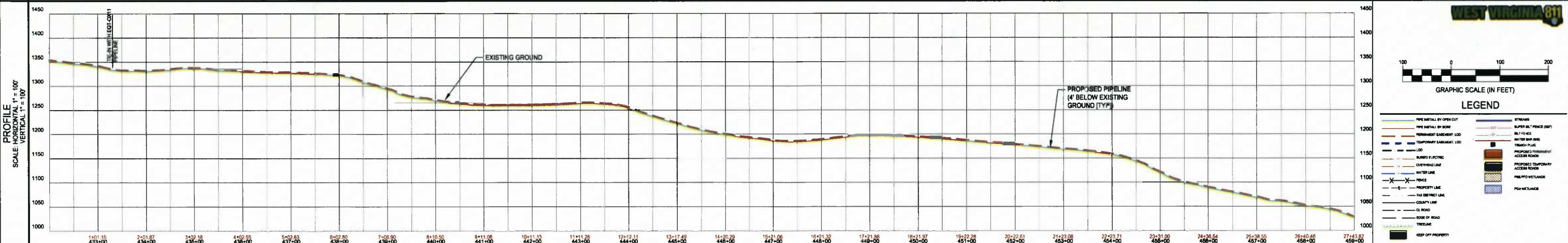


# SOUTH WEST DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

TOWNSHIP, COUNTY, STATE			
OWNER/PARCEL ID	MORRIS I L I K E 09-07-0010-0002-0000-6001		
ENVIRONMENTAL	WOODS	OPEN	WOODS
STATIONS & TRAVERSE ANGLES	MATCHLINE 432+00 432+17.79 47° 52' 06" LT	433+31.13 93° 01' 27" LT	434+88.40 21° 18' 21" RT
	441+47.15 13° 55' 14" RT	443+93.20 47° 27' 28" RT	MATCHLINE 459+00



NOTE: CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).



**IFC**

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS	
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE
1	2744 LF	PIPELINE (SLOPE LENGTH)			1	08/05/14
2	5 EA	Elbow, 45° Segmentable Fitting				

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**SHERWOOD SOUTH PIPELINE**

**PIPELINE PLAN**

STATION(S): 432+00 TO 459+00

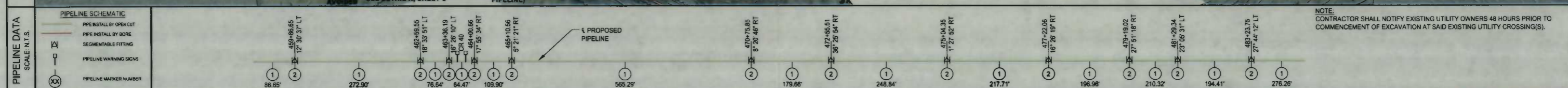
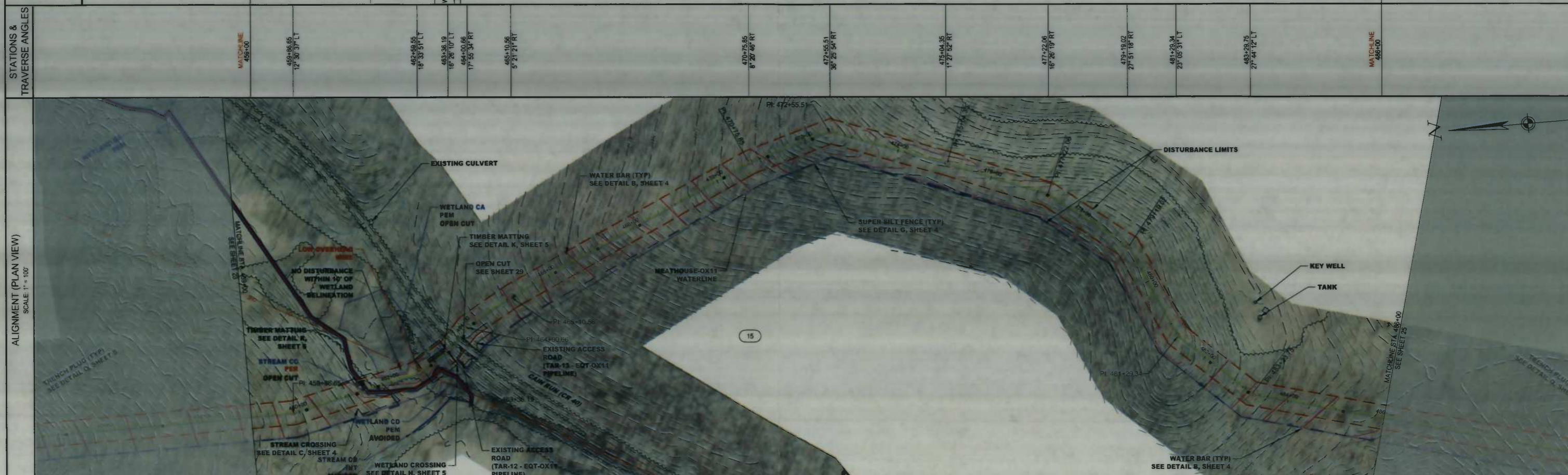
**one Gathering LLC**

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE:	08/29/2014
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	23 of 60

# SOUTH WEST DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

TOWNSHIP, COUNTY, STATE	MORRIS I I KE 09-07-0010-0002-0000-6001		
OWNER/PARCEL ID	15		
ENVIRONMENTAL	WOODS	OPEN	WOODS



**IFC**

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS	
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE
1	2811 LF	PIPELINE (SLOPE LENGTH)			1	09/09/14
2	12 EA	Elbow, 45° Segmentable Fitting				
4	2 EA	PIPELINE MARKER				

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**SHERWOOD SOUTH PIPELINE**

**PIPELINE PLAN**

STATION(S): 459+00 TO 486+00

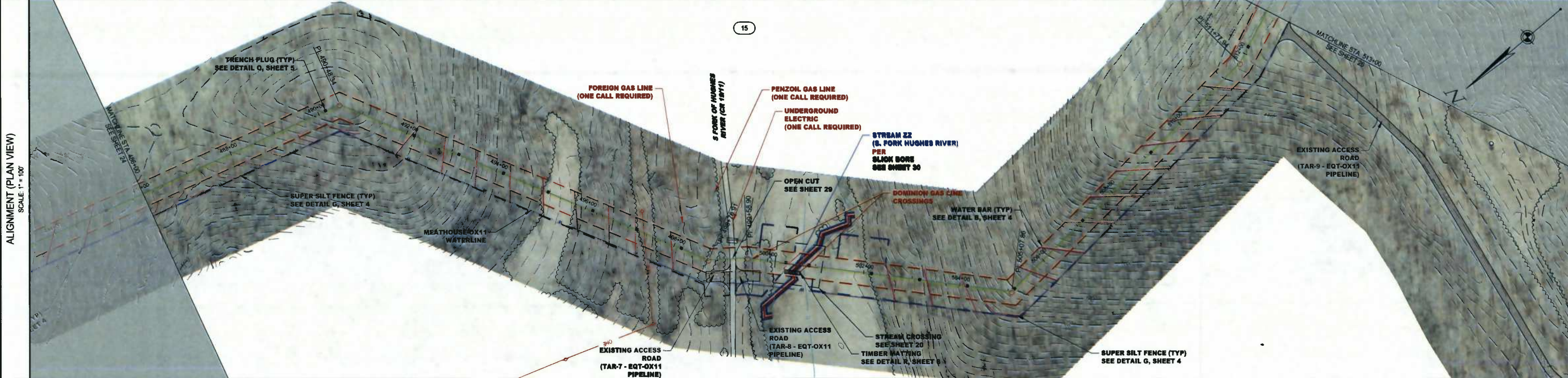
**Gathering LLC**  
ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE:	08/29/2014
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BUM
SHEET NO.	24 of 60

# SOUTH WEST DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

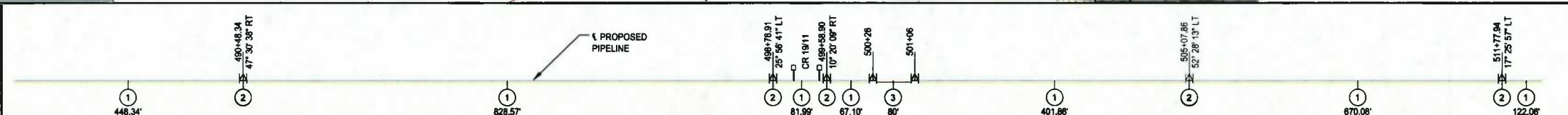
MORRIS I L I K E  
09-07-0010-0002-0000-6001

TOWNSHIP											
COUNTY, STATE											
OWNER/PARCEL ID											
ENVIRONMENTAL	WOODS			OPEN	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS
STATIONS & TRAVERSE ANGLES	MATCHLINE 486+00	490+48.34 47° 30' 36" RT		488+78.91 25° 56' 41" LT	499+58.90 10° 20' 08" RT		505+07.86 52° 28' 13" LT		511+77.84 17° 25' 57" LT	MATCHLINE 513+00	



**PIPELINE DATA**  
SCALE: N.T.S.

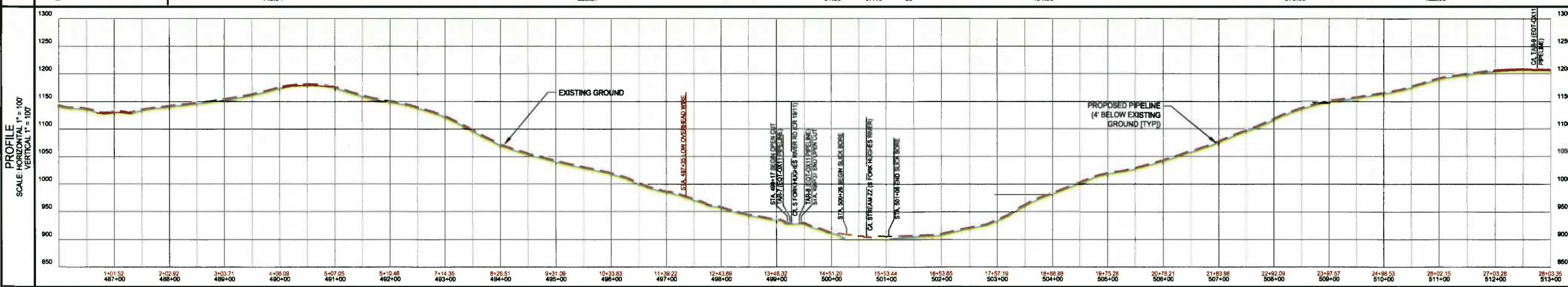
	PIPE INSTALL BY OPEN CUT
	PIPE INSTALL BY BORE
	SEGMENTABLE FITTING
	PIPELINE WARNING SIGNS
	PIPELINE MARKER NUMBER



**NOTE:**  
CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).

DOMINION TRANSMISSION  
445 W MAIN STREET  
CLARKSBURG, WV 26301  
STEVEN D. GUM  
304-782-5024  
Steven.D.Gum@dom.com

PENNZOIL  
1-800-344-6601



**WEST VIRGINIA 811**

GRAPHIC SCALE (IN FEET)

**LEGEND**

	PIPE INSTALL BY OPEN CUT		STREAM
	PIPE INSTALL BY BORE		SUPER SILT FENCE (TYP)
	SEGMENTABLE FITTING		SILT FENCE
	PIPELINE WARNING SIGNS		TRENCH PLUG
	PIPELINE MARKER NUMBER		WATER BAR (TYP)
			TRENCH PLUG
			PROPOSED PERMANENT ACCESS ROAD
			PROPOSED TEMPORARY ACCESS ROAD
			PERMITS/NOTICES
			PERMITS/NOTICES

**IFC**

08/29/2014  
DATE

SUMMARY OF MATERIALS		REFERENCE DRAWINGS		REVISIONS	
MRKR #	QTY. DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE DESCRIPTION
1	2723 LF PIPELINE (SLOPE LENGTH)			1	09/05/14 REVISED PER CONE COMMENTS
2	7 EA Elbow, 45° Segmentable Fitting				
3	80 LF BORED PIPELINE (SLOPE LENGTH)				
4	2 EA PIPELINE MARKER				

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**SHERWOOD SOUTH PIPELINE**

**PIPELINE PLAN**

STATION(S): 486+00 TO 513+00

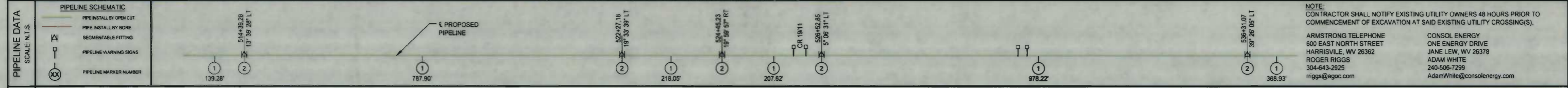
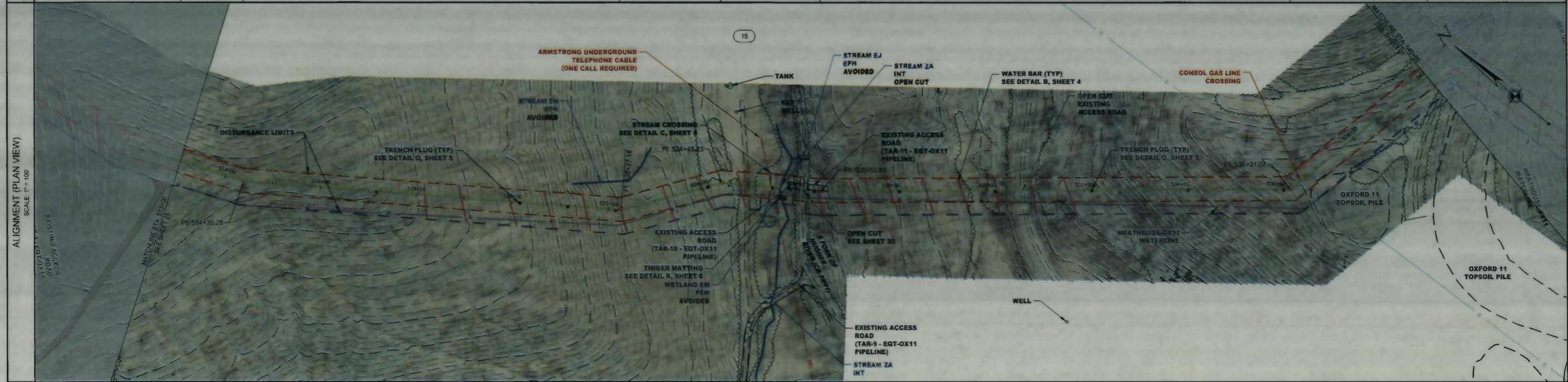
**Gathering LLC**

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE: 08/29/2014  
JOB NO.: 90126  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.  
**25 of 60**

# SOUTH WEST DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

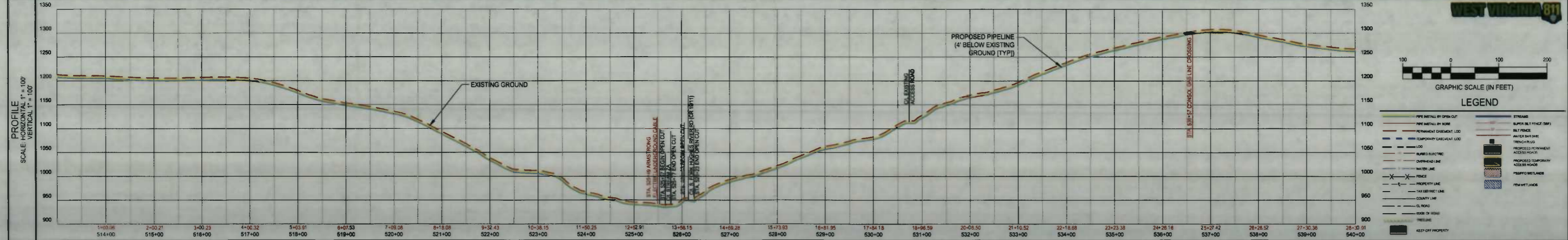
TOWNSHIP COUNTY, STATE												
OWNER/PARCEL ID	MORRIS I L I K E 15 09-07-0010-0002-0000-6001											
ENVIRONMENTAL	WOODS		OPEN	WOODS	OPEN	WOODS		OPEN	WOODS	OPEN	WOODS	
STATIONS & TRAVERSE ANGLES	MATCHLINE 513+00	514+39.28 13° 02' 02" LT	522+27.18 19° 33' 30" LT	524+45.23 19° 59' 57" RT	528+52.85 5° 06' 31" LT	536+31.07 39° 26' 05" LT	MATCHLINE 540+00					



NOTE:  
CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).

ARMSTRONG TELEPHONE  
600 EAST NORTH STREET  
HARRISVILLE, WV 26362  
ROGER RIGGS  
304-643-2925  
riggs@agoc.com

CONSOL ENERGY  
ONE ENERGY DRIVE  
JANE LEW, WV 26378  
ADAM WHITE  
240-506-7299  
AdamWhite@consolenergy.com



**IFC**

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
1	2831 LF	PIPELINE (SLOPE LENGTH)			1	09/05/14	REVISED PER CONE COMMENTS
2	5 EA	Elbow, 45° Segmentable Fitting					
4	4 EA	PIPELINE MARKER					

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**SHERWOOD SOUTH PIPELINE**

**PIPELINE PLAN**

STATION(S): 513+00 TO 540+00

**Gathering LLC**

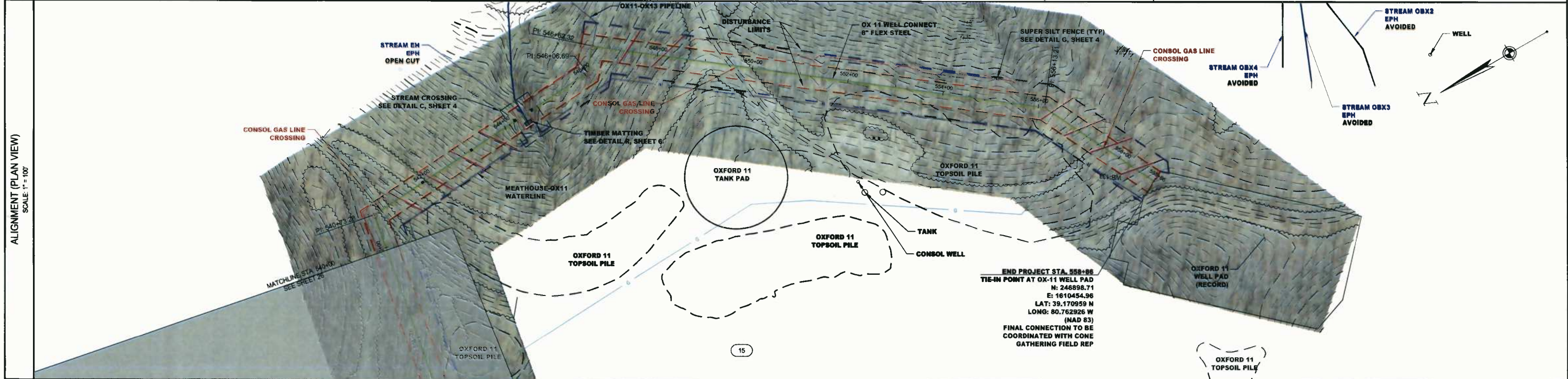
ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE: 08/29/2014
JOB NO.: 90126
DESIGN: BEM
DRAWN: BEM
CHECKED: BJM
SHEET NO. 26 of 60

**SOUTH WEST DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA**

TOWNSHIP: \_\_\_\_\_ COUNTY, STATE: \_\_\_\_\_  
 OWNER/PARCEL ID: \_\_\_\_\_ MORRIS I L IKE  
 ENVIRONMENTAL: \_\_\_\_\_ WOODS \_\_\_\_\_ OPEN \_\_\_\_\_ WOODS \_\_\_\_\_ OPEN \_\_\_\_\_ WOODS \_\_\_\_\_  
 15 09-07-0010-0002-0000-6001

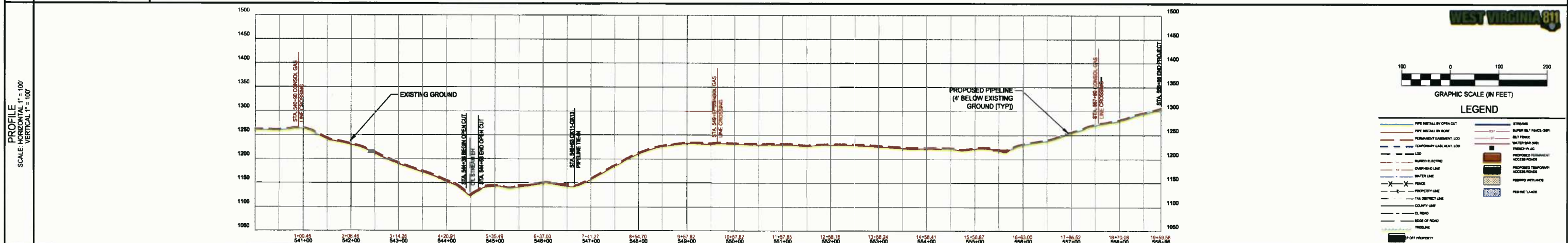
STATIONS & TRAVERSE ANGLES	WOODS	WOODS	WOODS	WOODS	WOODS	WOODS
MATCHLINE STA 540+00	540+73.28 75° 47' 35" RT	546+06.89 44° 44' 43" LT 546+63.32 86° 17' 44" RT	558+13.21 26° 25' 04" RT	558+00	558+00	END PROJECT STA 558+88



**PIPELINE DATA**  
 SCALE: N.T.S.



**NOTE:**  
 CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).  
 CONSOL ENERGY  
 ONE ENERGY DRIVE  
 JANE LEW, WV 26378  
 ADAM WHITE  
 240-508-7298  
 AdamWhite@consolenergy.com



**IFC**  
 08/29/2014  
 DATE

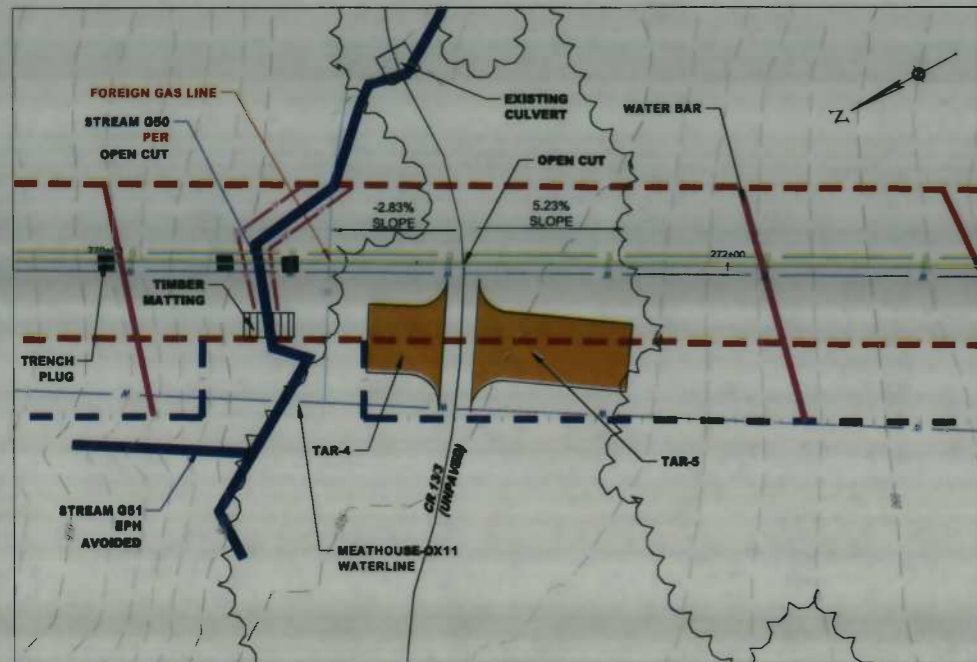
SUMMARY OF MATERIALS		REFERENCE DRAWINGS		REVISIONS	
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO. DATE DESCRIPTION
1	1900 LF	PIPELINE (SLOPE LENGTH)			1 08/05/14 REVISED PER CONE COMMENTS
2	4 EA	Elbow, 45° Segmentable Fitting			

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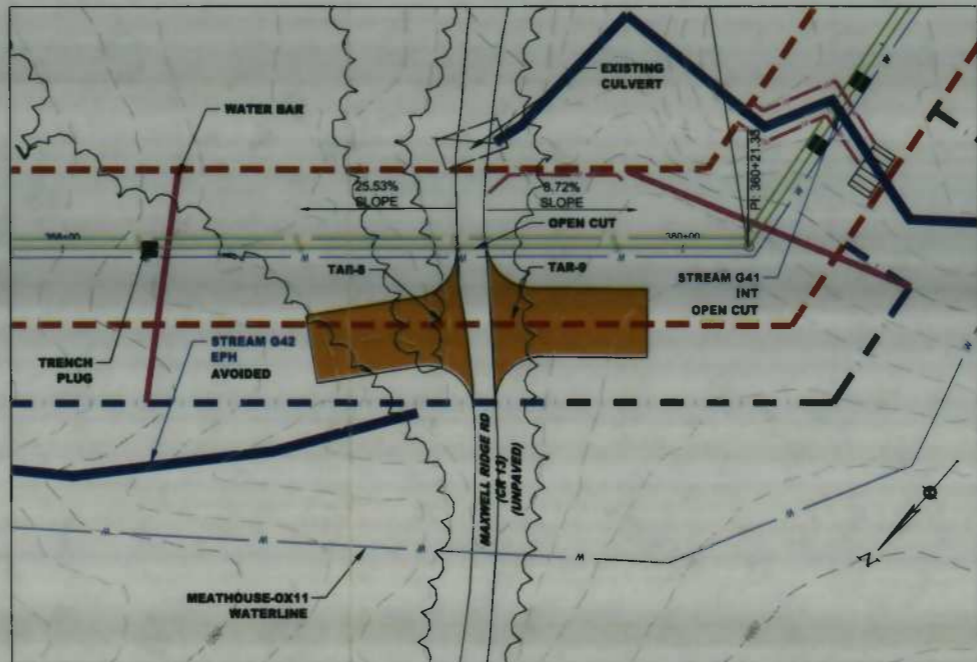
**SHERWOOD SOUTH PIPELINE**  
**PIPELINE PLAN**  
 STATION(S): 540+00 TO 558+86

**Gathering LLC**  
 ONE ENERGY DRIVE  
 JANE LEW, WV 26378

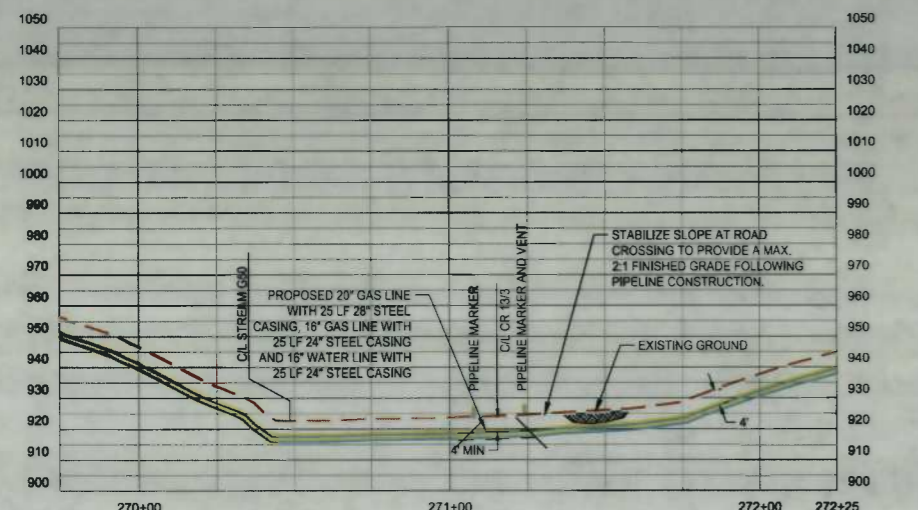
DATE: 08/29/2014  
 JOB NO.: 90126  
 DESIGN: BEM  
 DRAWN: BEM  
 CHECKED: BJM  
 SHEET NO.  
**27 of 60**



PLAN VIEW  
SCALE 1"=30'



PLAN VIEW  
SCALE 1"=30'



**LEGEND**

- PIPE INSTALL BY OPEN CUT
- PIPE INSTALL BY BORE
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- ALIGNED ELECTRIC
- OVERHEAD LINE
- WATER LINE
- PROPERTY LINE
- CL ROAD
- EDGE OF ROAD
- STREAME
- TREELINE

**GRAPHIC SCALE**  
1 inch = 30 ft.

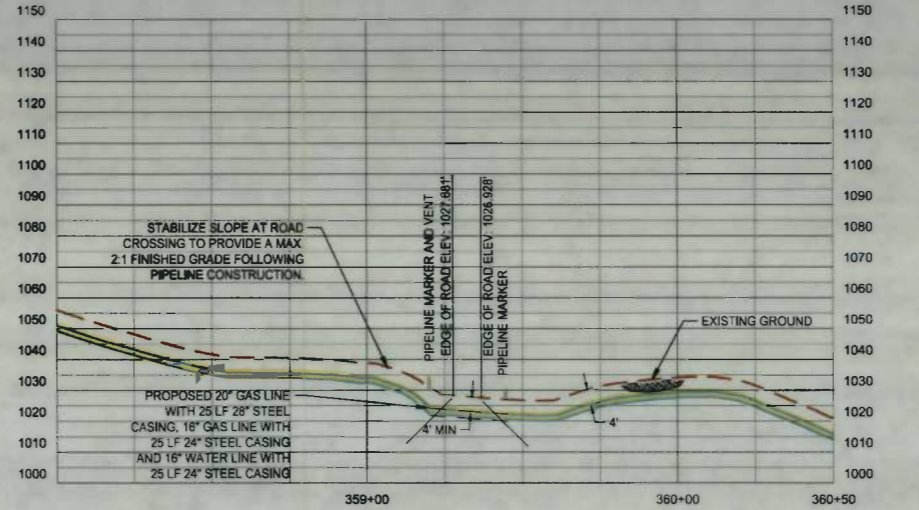
**OPEN CUT PROFILE**  
SCALE 1"=30' (H), 1"=30' (V)

**OPEN CUT DETAIL**  
CR 137

**SHERWOOD SOUTH PIPELINE**  
NEW MILTON DISTRICT  
DODDRIE COUNTY  
WEST VIRGINIA

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PROJECT NO. 90126  
SHEET NO. 1 OF 5



**LEGEND**

- PIPE INSTALL BY OPEN CUT
- PIPE INSTALL BY BORE
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- ALIGNED ELECTRIC
- OVERHEAD LINE
- WATER LINE
- PROPERTY LINE
- CL ROAD
- EDGE OF ROAD
- STREAME
- TREELINE

**GRAPHIC SCALE**  
1 inch = 30 ft.

**OPEN CUT PROFILE**  
SCALE 1"=30' (H), 1"=30' (V)

**OPEN CUT DETAIL**  
MAXWELL RIDGE RD (CR 13)

**SHERWOOD SOUTH PIPELINE**  
NEW MILTON DISTRICT  
DODDRIE COUNTY  
WEST VIRGINIA

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www.cesoinc.com

PROJECT NO. 90126  
SHEET NO. 2 OF 5

IFC

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
					1	09/05/14	REVISED PER CONE COMMENTS

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SHERWOOD SOUTH PIPELINE

ROAD CROSSING DETAILS

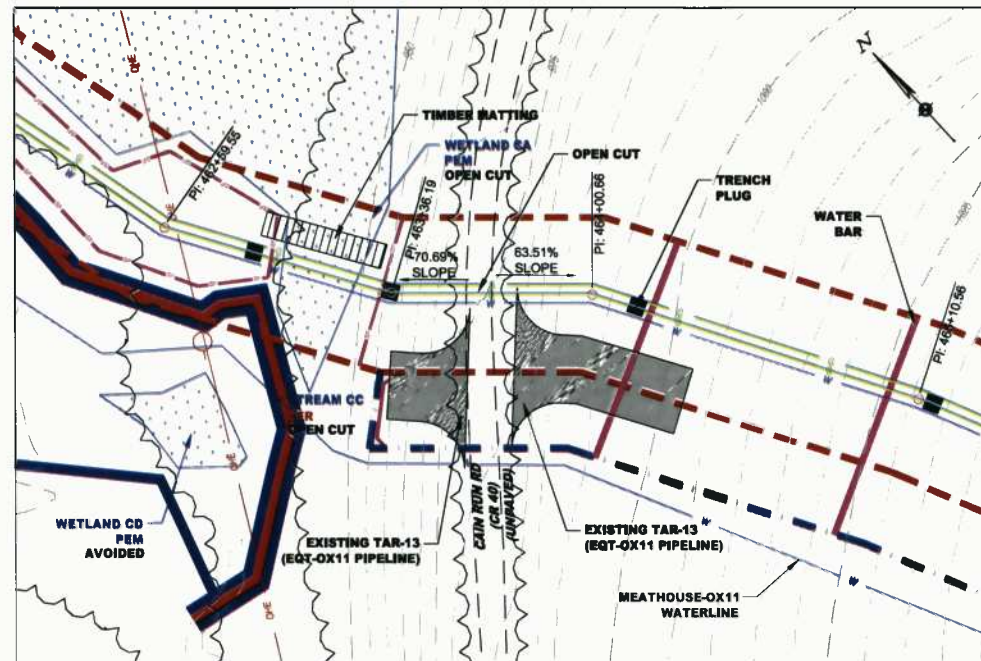
STATION(S): N/A

**Stone Gathering LLC**

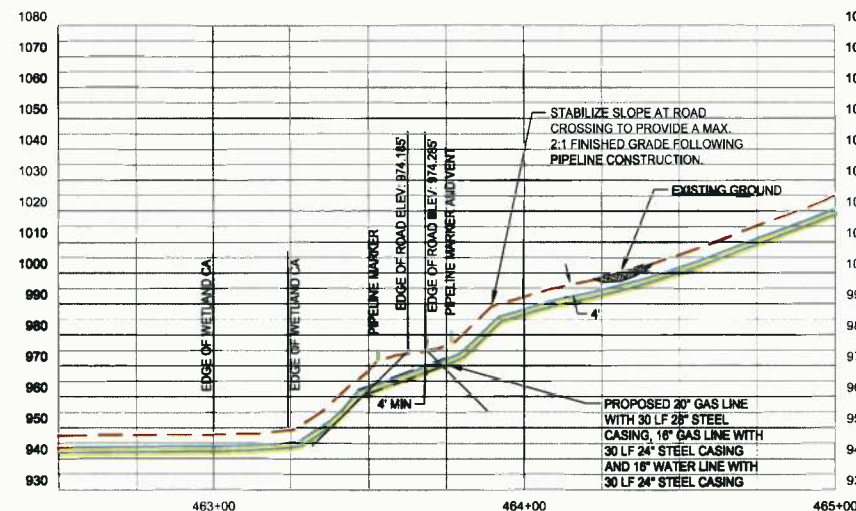
ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE: 08/29/2014  
JOB NO.: 90126  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.

28 of 60



PLAN VIEW  
SCALE 1"=30'



**LEGEND**

- PIPE METALS BY OPEN CUT
- PIPE METALS BY SORE
- PERMANENT EMBANKMENT
- TEMPORARY EMBANKMENT
- BURIED ELECTRIC
- OVERHEAD ELECTRIC
- WATER LINE
- PROPERTY LINE
- TO ROAD
- EDGE OF ROAD
- STREAM
- TREELINE

**GRAPHIC SCALE**  
1 inch = 30 ft

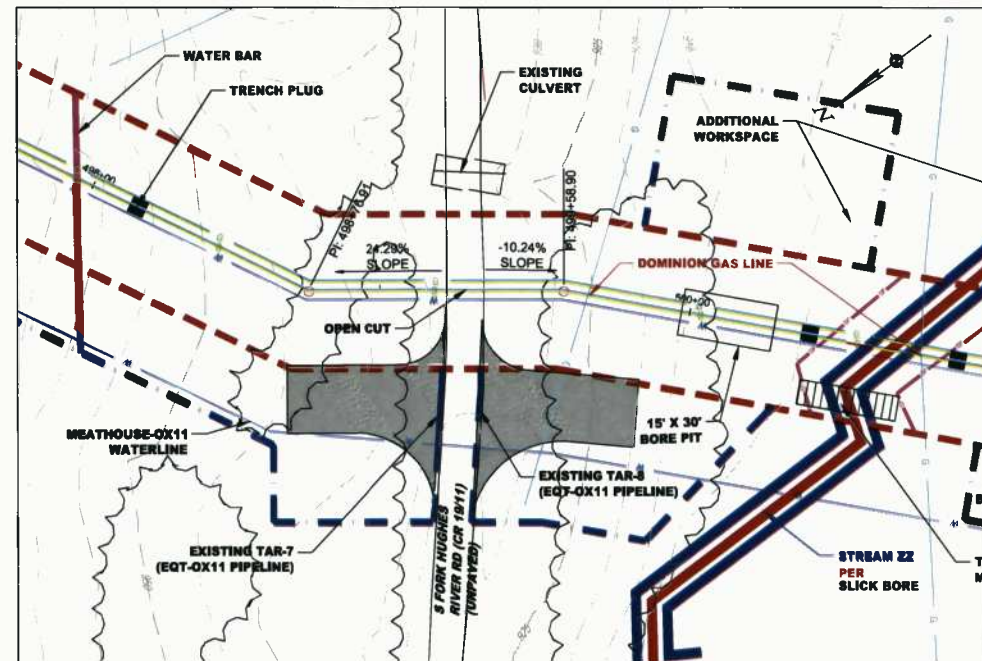
**OPEN CUT PROFILE**  
SCALE 1"=30' (V=30' H)

**OPEN CUT DETAIL**  
CAIN RUN RD (CR 40)

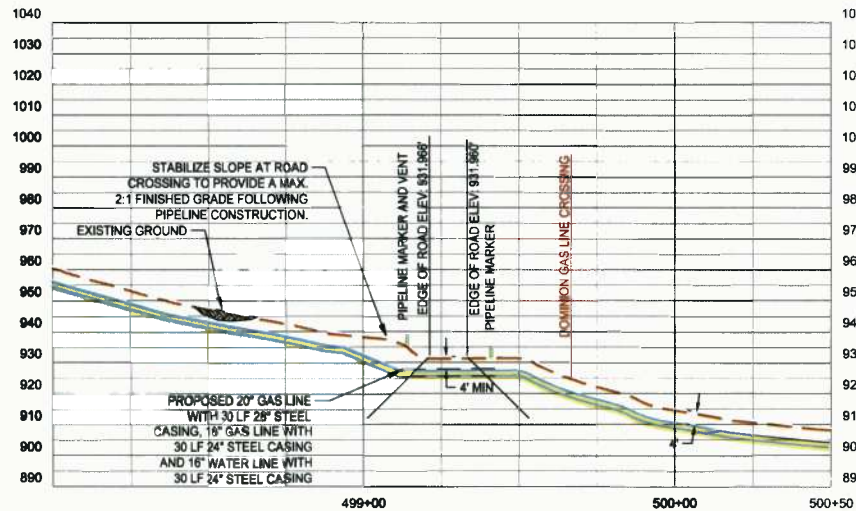
**SHERWOOD SOUTH PIPELINE**  
SOUTH WEST DISTRICT  
DODDORGE COUNTY  
WEST VIRGINIA

PROJECT NO. 90126  
SHEET NO. 3 OF 5  
DATE 08/29/2014

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www.cesoinc.com



PLAN VIEW  
SCALE 1"=30'



**LEGEND**

- PIPE METALS BY OPEN CUT
- PIPE METALS BY SORE
- PERMANENT EMBANKMENT
- TEMPORARY EMBANKMENT
- BURIED ELECTRIC
- OVERHEAD ELECTRIC
- WATER LINE
- PROPERTY LINE
- TO ROAD
- EDGE OF ROAD
- STREAM
- TREELINE

**GRAPHIC SCALE**  
1 inch = 30 ft

**OPEN CUT PROFILE**  
SCALE 1"=30' (V=30' H)

**OPEN CUT DETAIL**  
S FORK HUGHES RIVER RD (CR 1911)

**SHERWOOD SOUTH PIPELINE**  
SOUTH WEST DISTRICT  
DODDORGE COUNTY  
WEST VIRGINIA

PROJECT NO. 90126  
SHEET NO. 4 OF 5  
DATE 08/29/2014

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IFC

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
					1	08/29/14	REVISED PER COME COMMENTS

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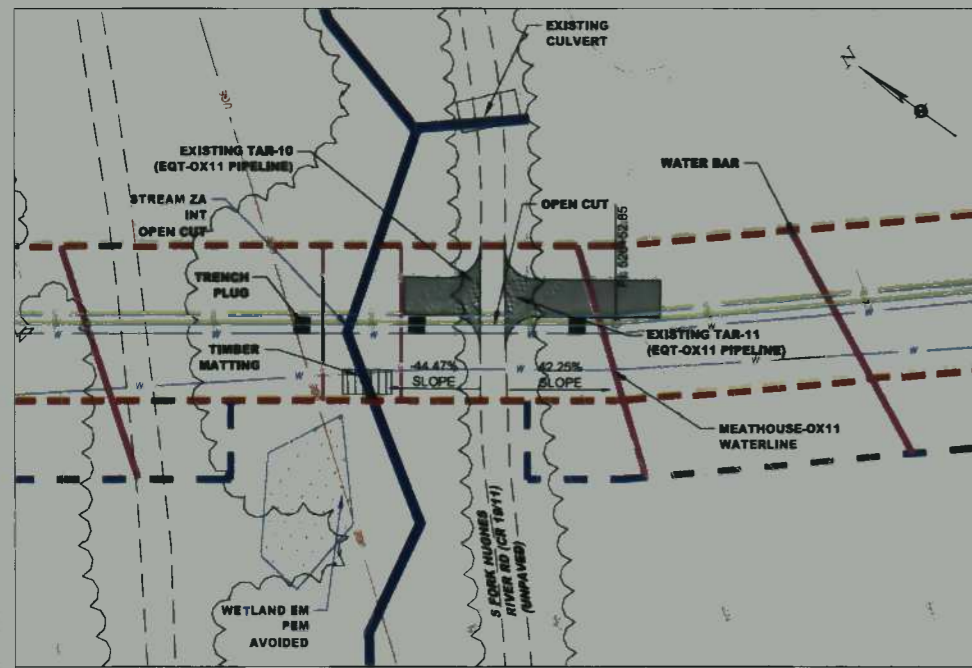
SHERWOOD SOUTH PIPELINE

ROAD CROSSING DETAILS

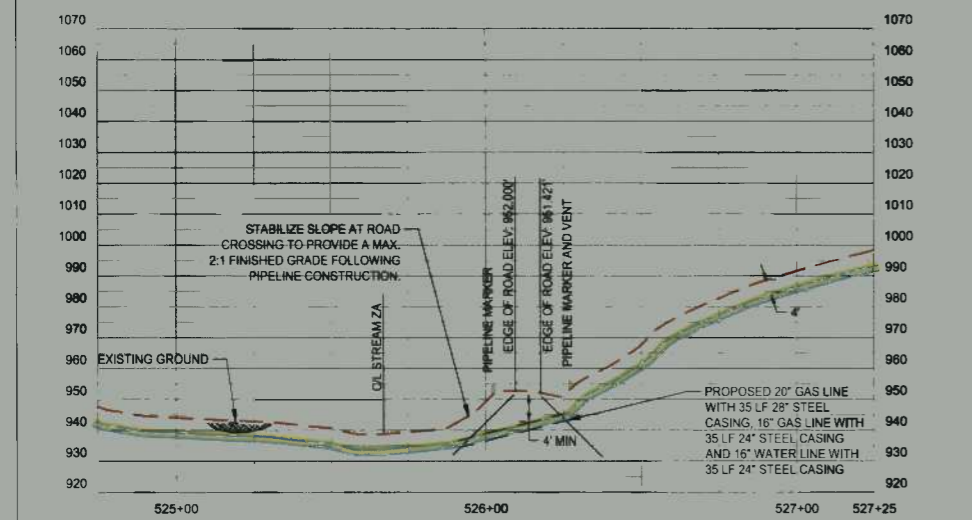
STATION(S): N/A

**Stone** Gathering LLC  
ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE: 08/29/2014  
JOB NO.: 90126  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.  
29 of 60



PLAN VIEW  
SCALE 1"=30'



LEGEND

- PIPE INSTALL BY OPEN CUT
- PIPE INSTALL BY BORE
- PERMANENT FACILITY
- TEMPORARY FACILITY
- BURIED ELECTRIC
- OVERHEAD LINE
- WATER LINE
- PROPERTY LINE
- CL MARK
- EDGE OF ROAD
- STREAM
- TRENCH

GRAPHIC SCALE  
1 inch = 30 ft

OPEN CUT PROFILE  
SCALE 1"=20' (H), 1"=30' (V)

OPEN CUT DETAIL  
S FORK HUGHES RIVER RD (CR 19/11)

NO.	REVISED	DATE	DESCRIPTION

SHERWOOD SOUTH PIPELINE  
SOUTH WEST DISTRICT  
DODDORIDGE COUNTY  
WEST VIRGINIA

PROJECT NO. 90126  
SHEET NO. 5 OF 5

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IFC

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
					1	09/05/14	REVISED PER CONE COMMENTS

SHERWOOD SOUTH PIPELINE

ROAD CROSSING DETAILS

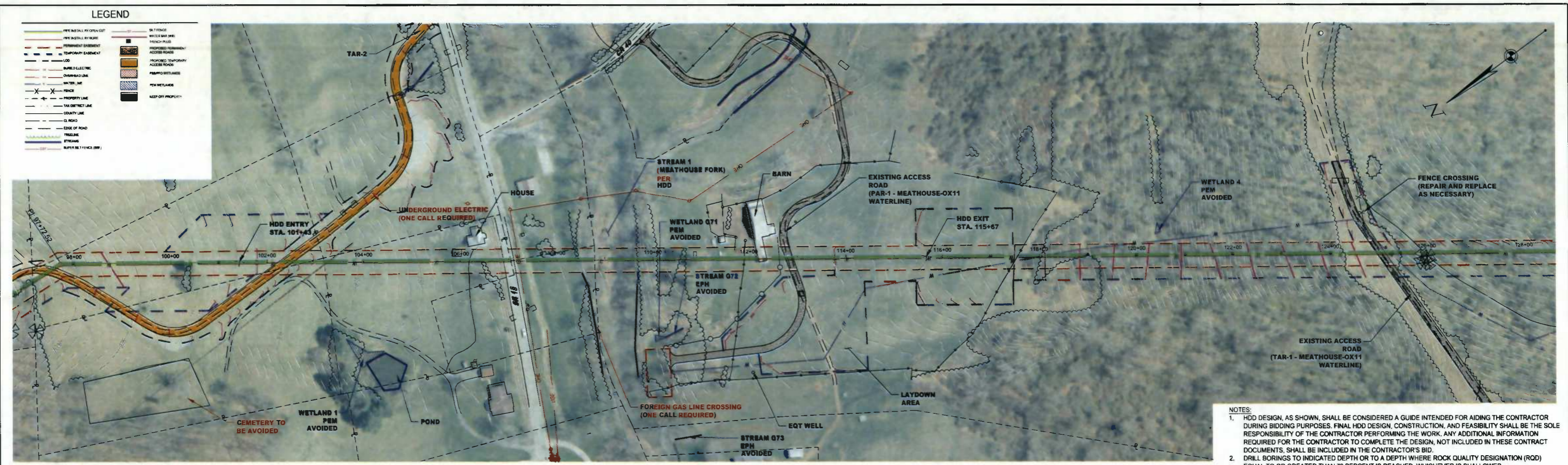
STATION(S): N/A

more Gathering LLC

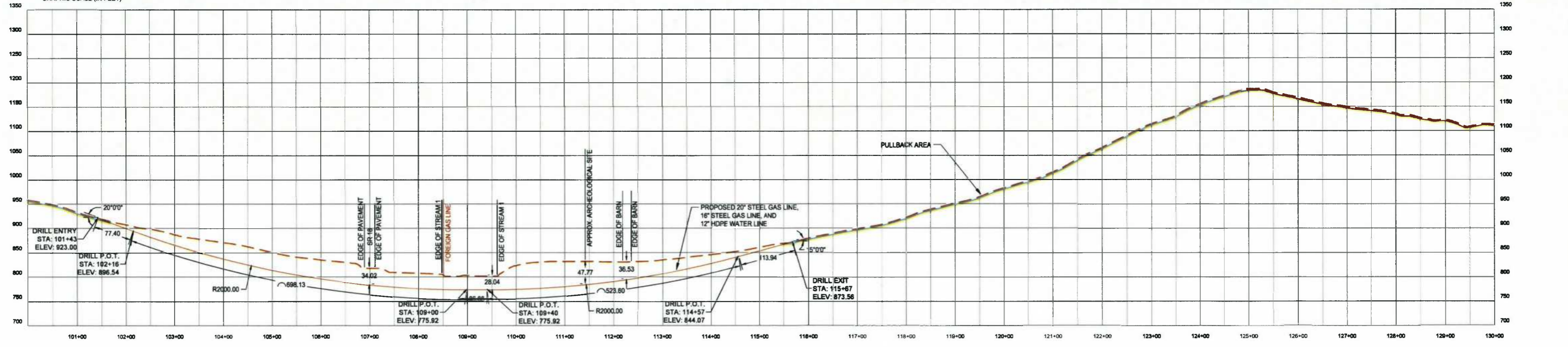
ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE: 08/29/2014  
JOB NO.: 90126  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO. 30 of 60





- NOTES:
- HDD DESIGN, AS SHOWN, SHALL BE CONSIDERED A GUIDE INTENDED FOR AIDING THE CONTRACTOR DURING BIDDING PURPOSES. FINAL HDD DESIGN, CONSTRUCTION, AND FEASIBILITY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR PERFORMING THE WORK. ANY ADDITIONAL INFORMATION REQUIRED FOR THE CONTRACTOR TO COMPLETE THE DESIGN, NOT INCLUDED IN THESE CONTRACT DOCUMENTS, SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
  - DRILL BORINGS TO INDICATED DEPTH OR TO A DEPTH WHERE ROCK QUALITY DESIGNATION (ROD) EQUAL TO OR GREATER THAN 70 PERCENT IS REACHED, WHICHEVER IS SHALLOWER.
  - DRILL DESIGN AND LOCATION SUBJECT TO CHANGE BASED ON SUBSURFACE GEOTECHNICAL INVESTIGATION.
  - FINAL LAYOUT OF WORKSPACE TO BE LAID OUT BY CONTRACTOR.
  - EROSION AND SEDIMENT CONTROL, ENVIRONMENTAL NOTES AND HYDROSTATIC TEST DATA SHALL BE PROVIDED ON FINAL DESIGN.
  - PIPE STRESSES ON RADIUS OF CURVATURE MUST BE CALCULATED ONCE PIPELINE DIAMETER IS ESTABLISHED.



IFC

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
					1	08/05/14	REVISED PER CONE COMMENTS

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SHERWOOD SOUTH PIPELINE

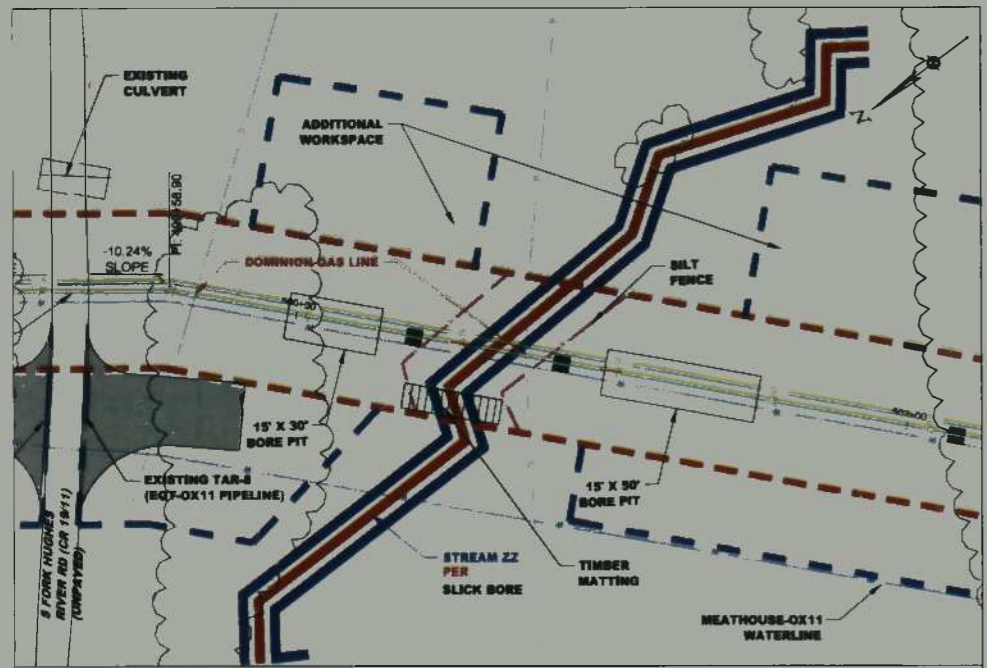
HDD PLAN AND PROFILE

STATION(S): 100+00 to 130+00

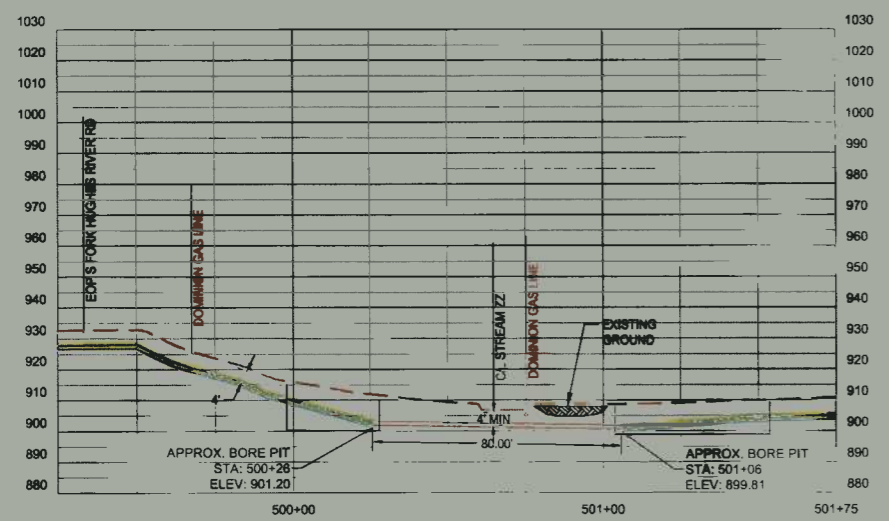
Gathering LLC

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE: 08/29/2014  
JOB NO.: 90126  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.  
31 of 60



PLAN VIEW  
SCALE 1"=30'



**LEGEND**

- PIPE METALL BY OPEN CUT
- PIPE METALL BY BORE
- PERMANENT TANK LINE
- INTERIM TANK LINE
- BURIED ELECTRIC
- OVERHEAD LINE
- PROPERTY LINE
- CL. ROAD
- EDGE OF ROAD
- UTILITY
- TEL. LINE

**GRAPHIC SCALE**  
1 inch = 30 ft.  
0 30 60 (IN FEET)

**SLICK BORE PROFILE**  
SCALE 1"=30' (V), 1"=30' (H)

NO.	DATE	DESCRIPTION
1	09/05/14	REVISED PER CONE COMMENTS

**SHERWOOD SOUTH PIPELINE**  
SOUTH WEST DISTRICT  
DOODRIDGE COUNTY  
WEST VIRGINIA

**ceso**  
www.cesoinc.com

DATE: 08/29/14  
JOB NO.: 90126  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO. 32 OF 60

**IFC**

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
					1	09/05/14	REVISED PER CONE COMMENTS

**ceso**  
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**SHERWOOD SOUTH PIPELINE**

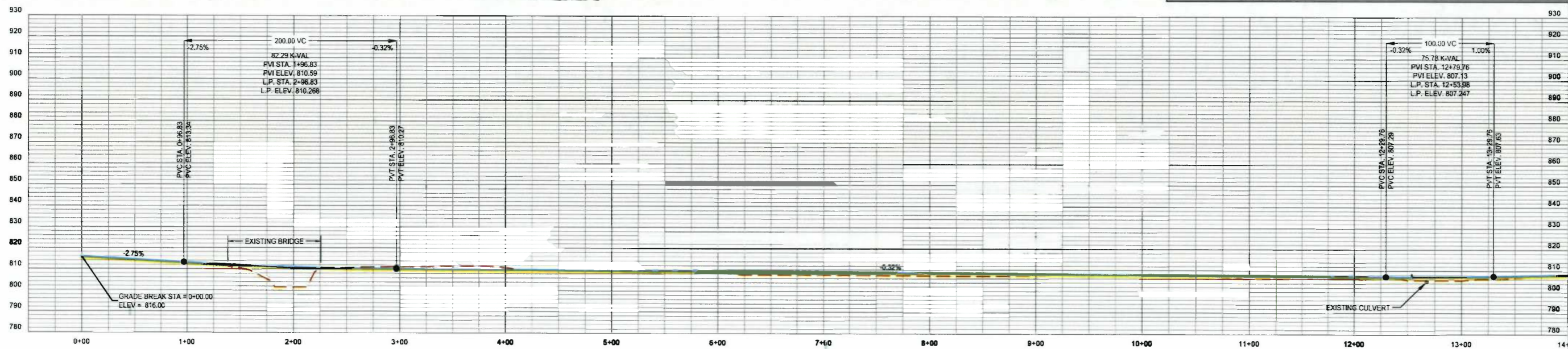
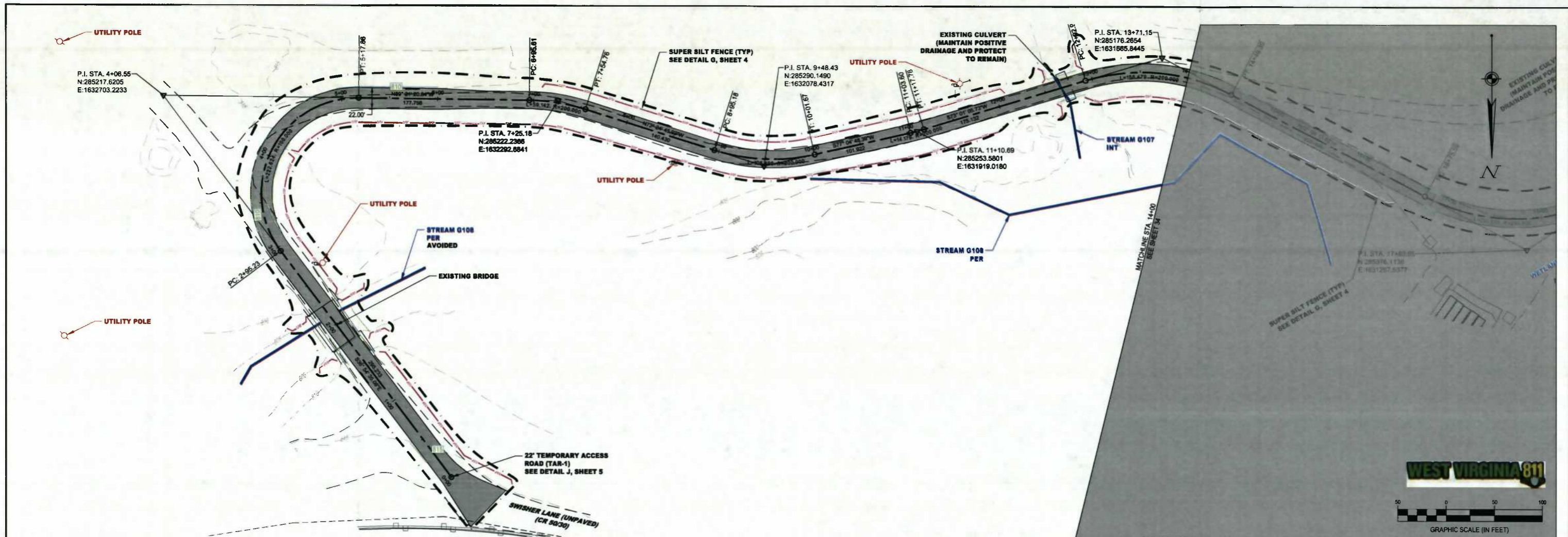
**SLICK BORE PLAN AND PROFILE**

STATION(S): N/A

**Stone Gathering LLC**

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE: 08/29/2014  
JOB NO.: 90126  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO. 32 OF 60



TAR-1 (UPGRADED) PROFILE  
Scale: 1" = 50' Horiz., 1" = 25' Vert.

**LEGEND**

- EXISTING BENCH CONTOUR
- PROPOSED BENCH CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PIPE INSTALL BY OPEN CUT
- PIPE INSTALL BY TRENCH
- TEMPORARY EASEMENT
- PERMANENT EASEMENT
- L&D
- BURNED ELECTRIC
- OVERHEAD LINE
- WATER LINE
- FENCE
- PROPERTY LINE
- TAX DISTRICT LINE
- COUNTY LINE
- CL ROAD
- EDGE OF ROAD
- TRENCH
- SUPER SILT FENCE (SFP)
- SILT FENCE
- WATER SWP (SFP)
- TRENCH PLUS
- PROPOSED PERMANENT ACCESS ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- PROPOSED EASEMENT
- PERM WETLANDS
- OPEN OFF PROPERTY

**IFC**

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
					1	08/29/14	REVISED PER CONE COMMENTS



**SHERWOOD SOUTH PIPELINE**

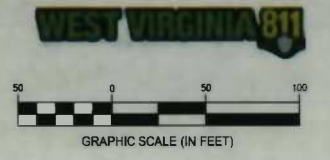
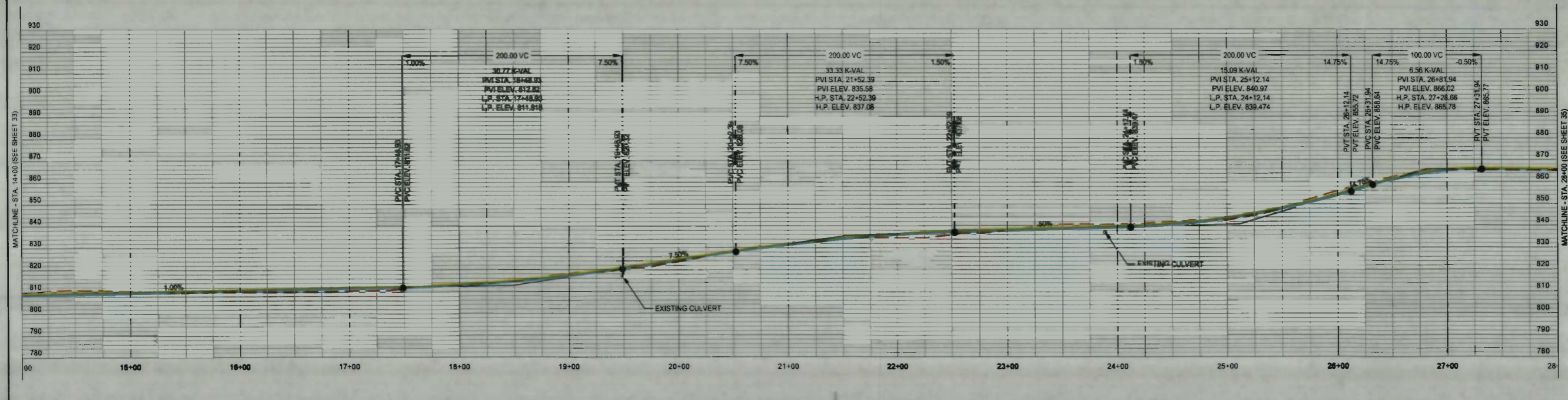
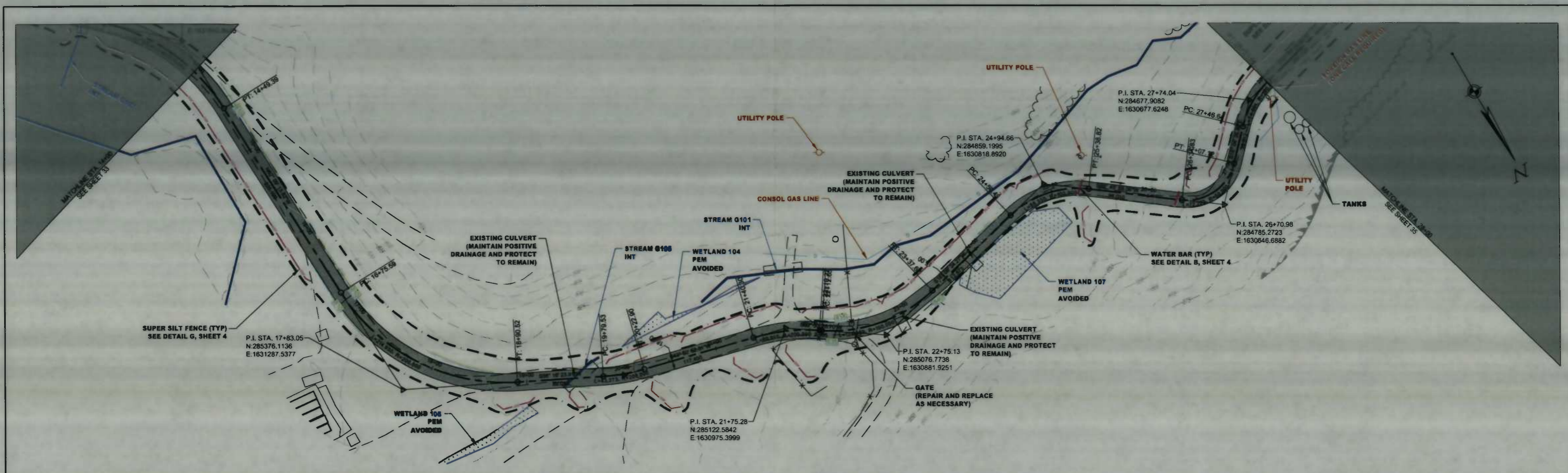
**TAR-1 PLAN AND PROFILE**

STATION(S): 0+00 TO 14+00

**Gathering LLC**

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE: 08/29/2014  
JOB NO.: 90126  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.  
**33 of 60**



**LEGEND**

- EXISTING ROAD CONTOUR
- EXISTING ALTERNATE RE CONTOUR
- PROPOSED ROAD CONTOUR
- PROPOSED ALTERNATE CONTOUR
- PIPE METAL BY OPEN CUT
- PIPE METAL BY BOX
- PERMANENT SUBSURFACE
- TEMPORARY SUBSURFACE
- LID
- BURIED ELECTRIC
- OVERHEAD LINE
- WATER LINE
- FENCE
- PROPERTY LINE
- TAX DISTRICT LINE
- COUNTY LINE
- CL ROAD
- SIDE OF ROAD
- STREAM
- SUPER SILT FENCE (TYP)
- SILT FENCE
- WATER BAR (TYP)
- FRENCH PLUG
- PROPOSED PERMANENT ACCESS ROADS
- PROPOSED TEMPORARY ACCESS ROADS
- PSMO WETLANDS
- PEW WETLANDS
- KEEP OFF PROPERTY

TAR-1 (UPGRADED) PROFILE  
Scale: 1" = 50' Horiz.; 1" = 25' Vert.

**IFC**

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
					1	08/05/14	REVISED PER CDME COMMENTS

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**SHERWOOD SOUTH PIPELINE**

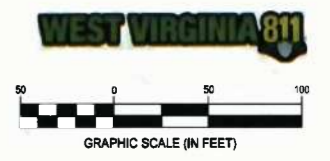
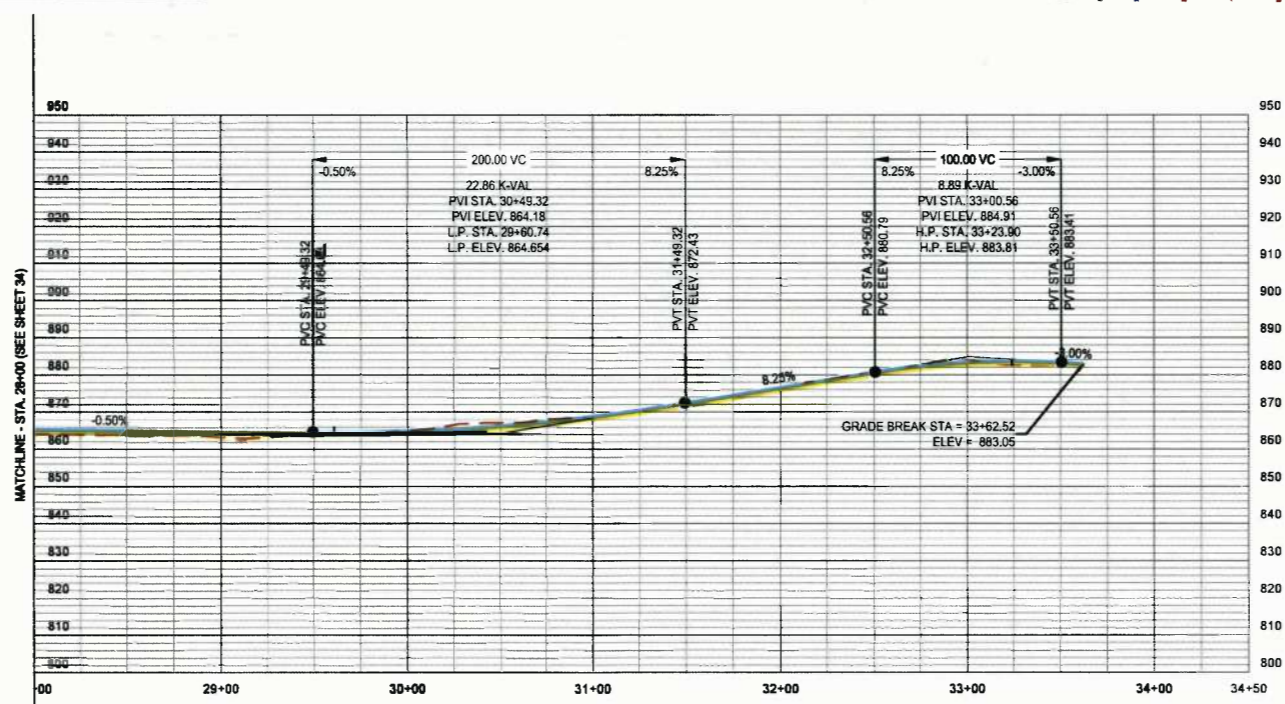
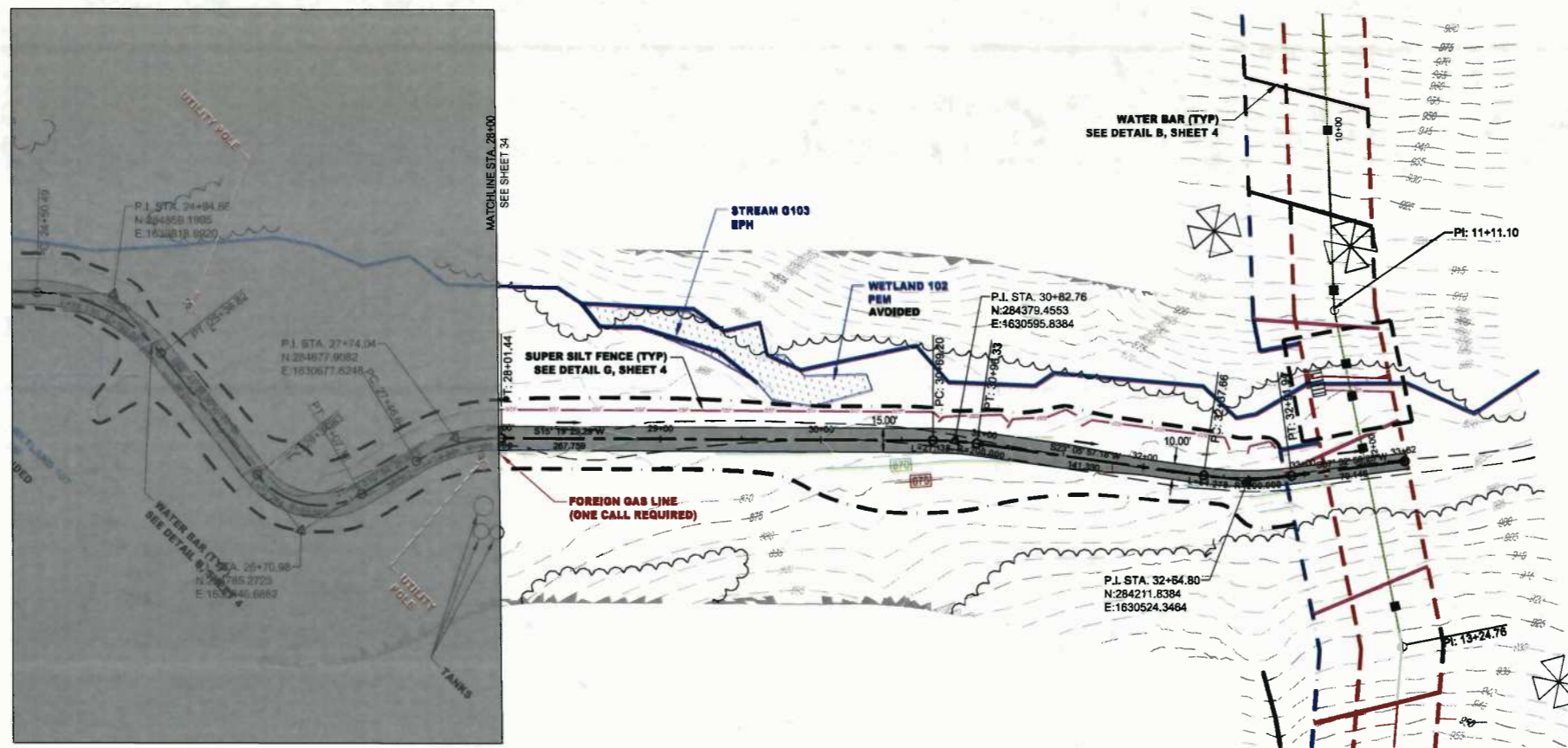
TAR-1 PLAN AND PROFILE

STATION(S): 14+00 TO 28+00

**One Gathering LLC**

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE:	08/29/2014
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	34 of 60



**LEGEND**

- EXISTING INDEX CONTOUR
- EXISTING INTERUMENTS CONTOUR
- PROPOSED INDEX CONTOUR
- PROPOSED INTERUMENTS CONTOUR
- PIPE METAL BY OPEN CUT
- PIPE METAL BY BORE
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- LOT
- DRAINAGE
- OWNER'S LINE
- WATER LINE
- WATER BAR
- FENCE
- PROPERTY LINE
- TAX DISTRICT LINE
- COUNTY LINE
- ROAD
- EDGE OF ROAD
- TRAILLINE
- STREAM
- WATER BILT FENCE (SP)
- BILT FENCE
- WATER BAR (WB)
- TRENCH PLUG
- PROPOSED PERMANENT ACCESS ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- PERMITS WETLANDS
- PERMITS WETLANDS
- KEEP OFF PROPERTY

TAR-1 (UPGRADED) PROFILE  
Scale: 1" = 50' Horiz., 1" = 25' Vert.

**IFC**

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
					1	09/05/14	REVISED PER CONE COMMENTS



**SHERWOOD SOUTH PIPELINE**

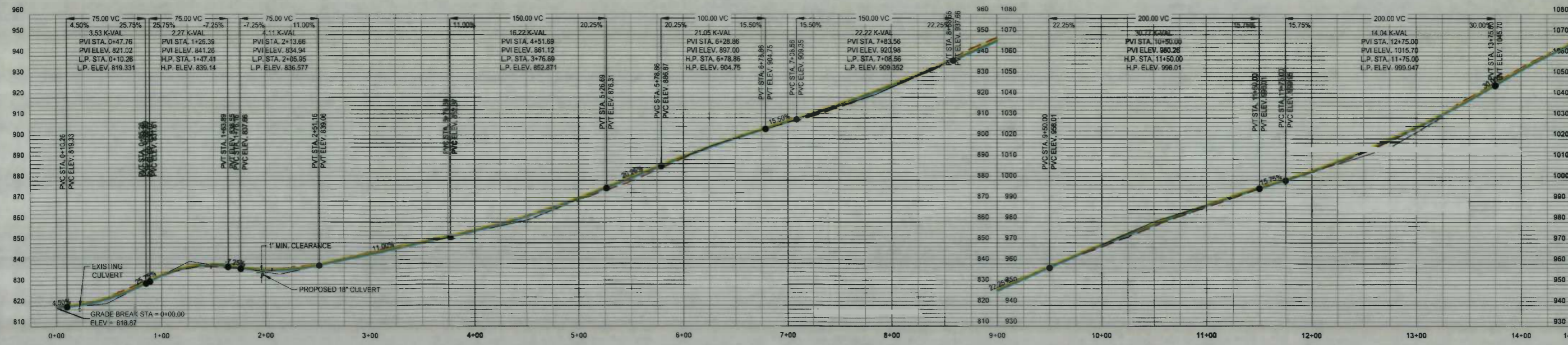
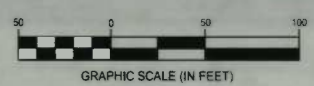
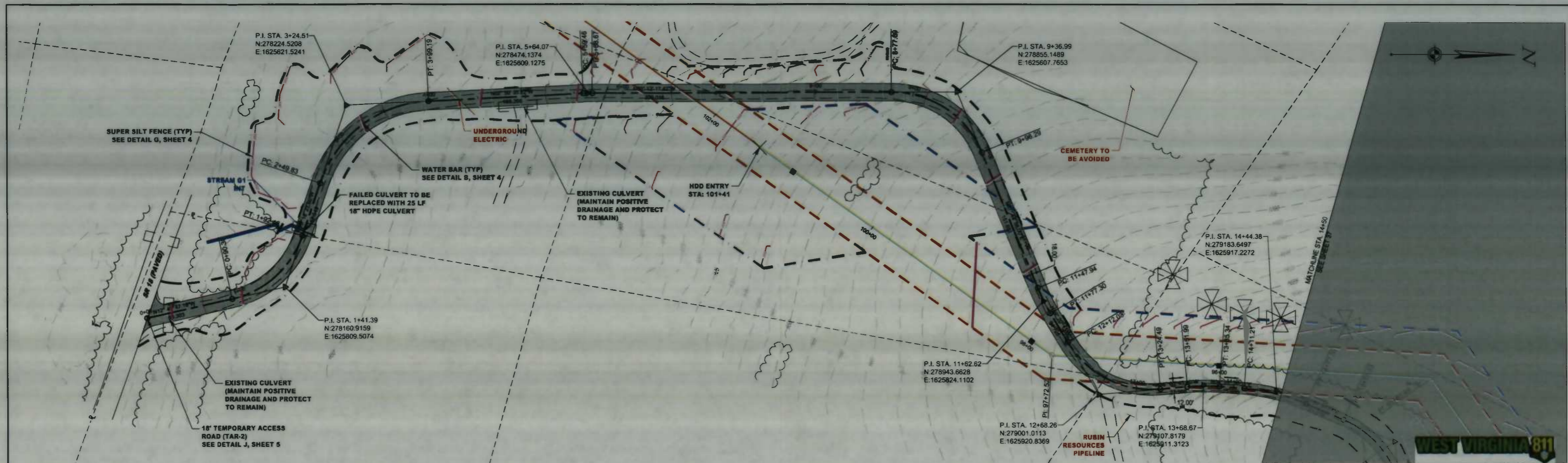
**TAR-1 PLAN AND PROFILE**

STATION(S): 28+00 TO 33+62

**One Gathering LLC**

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE: 08/29/2014  
JOB NO.: 90126  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.  
**35 of 60**



**LEGEND**

- EXISTING NOISE CONTOUR
- EXISTING INTERIM STATE CONTOUR
- PROPOSED NOISE CONTOUR
- PIPE METAL BY OPEN CUT
- PIPE METAL BY ROPE
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- LOD
- OVERHEAD AIR
- UNDERGROUND AIR
- WATER LINE
- CEMENT
- FRIDGE
- PROPERTY LINE
- TIE OFFSET LINE
- COUNTY LINE
- CL ROAD
- EDGE OF ROAD
- TRUSS
- BRIDGE
- SUPER SILT FENCE (SFP)
- SILT FENCE
- WATER BAR (WB)
- TRUCK PILE
- PROPOSED PERMANENT ACCESS ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- PS&PW WETLANDS
- RESERVE PLANT
- KEEP OFF PROPERTY

TAR-2 (UPGRADED) PROFILE  
Scale: 1" = 50' Horiz., 1" = 25' Vert.

**IFC**

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
					1	09/05/14	REVISED PER CONE COMMENTS

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**SHERWOOD SOUTH PIPELINE**

TAR-2 PLAN AND PROFILE

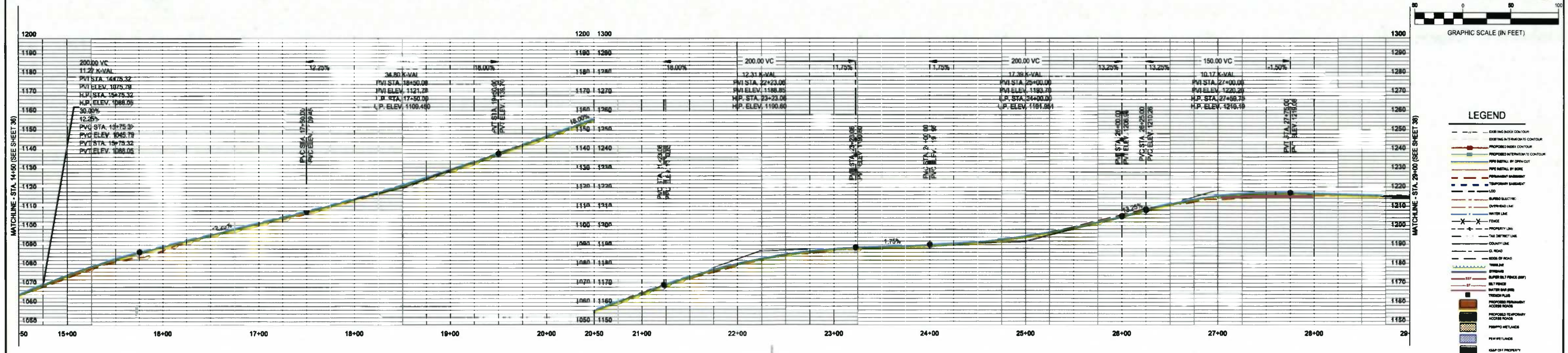
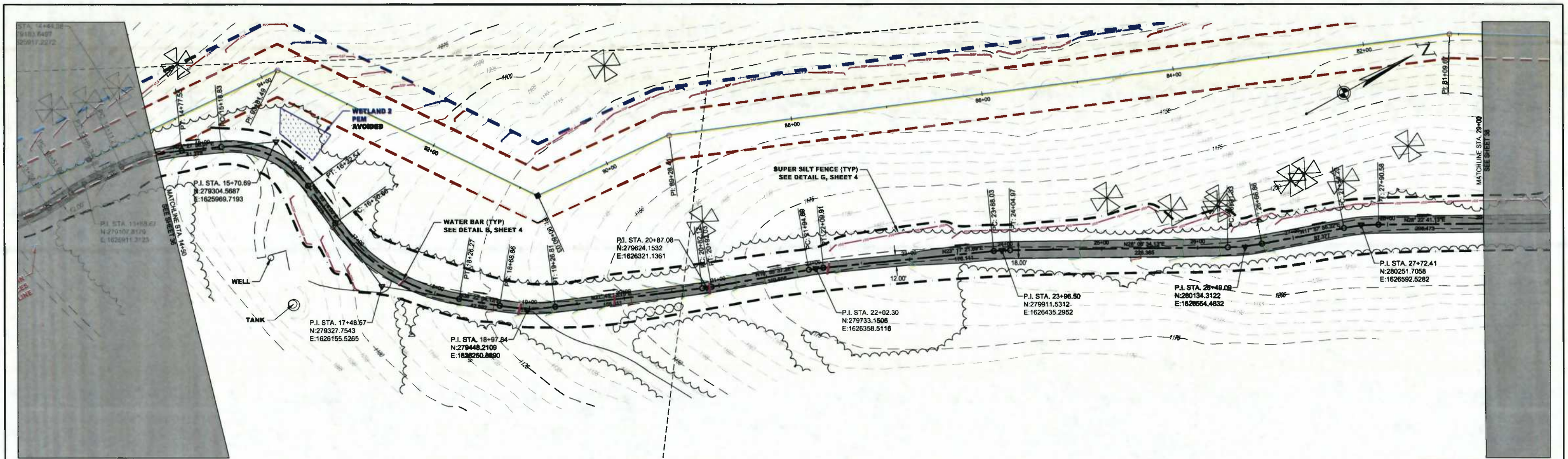
STATION(S): 0+00 TO 14+50

**Home Gathering LLC**

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE: 08/29/2014  
JOB NO.: 90126  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.  
**36 of 60**

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TAR-2 (UPGRADED) PROFILE  
Scale: 1" = 50' Horiz., 1" = 25' Vert.

**IFC**  
08/29/2014  
DATE

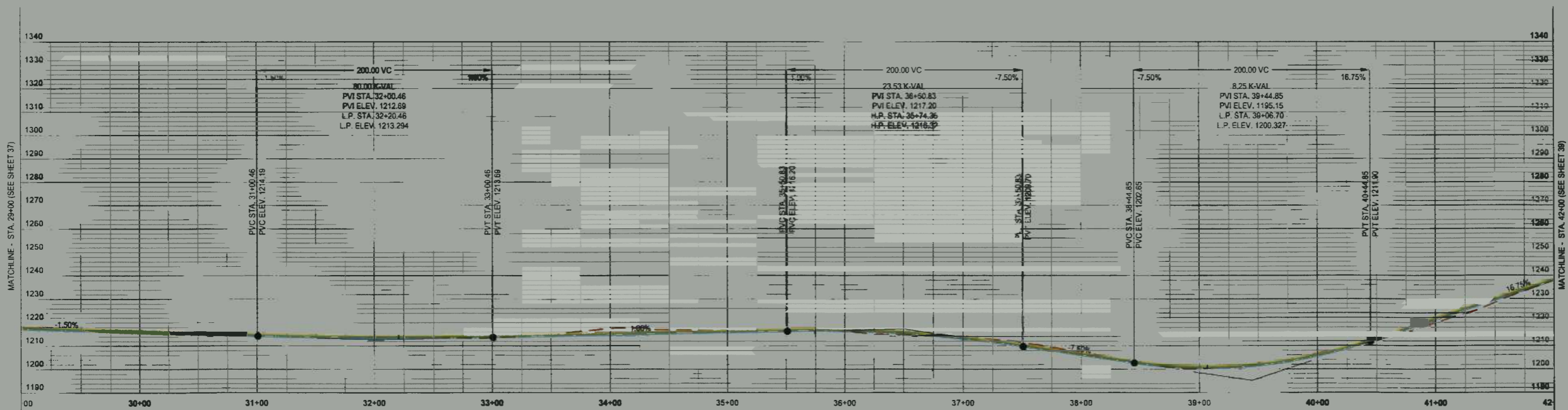
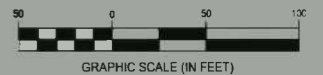
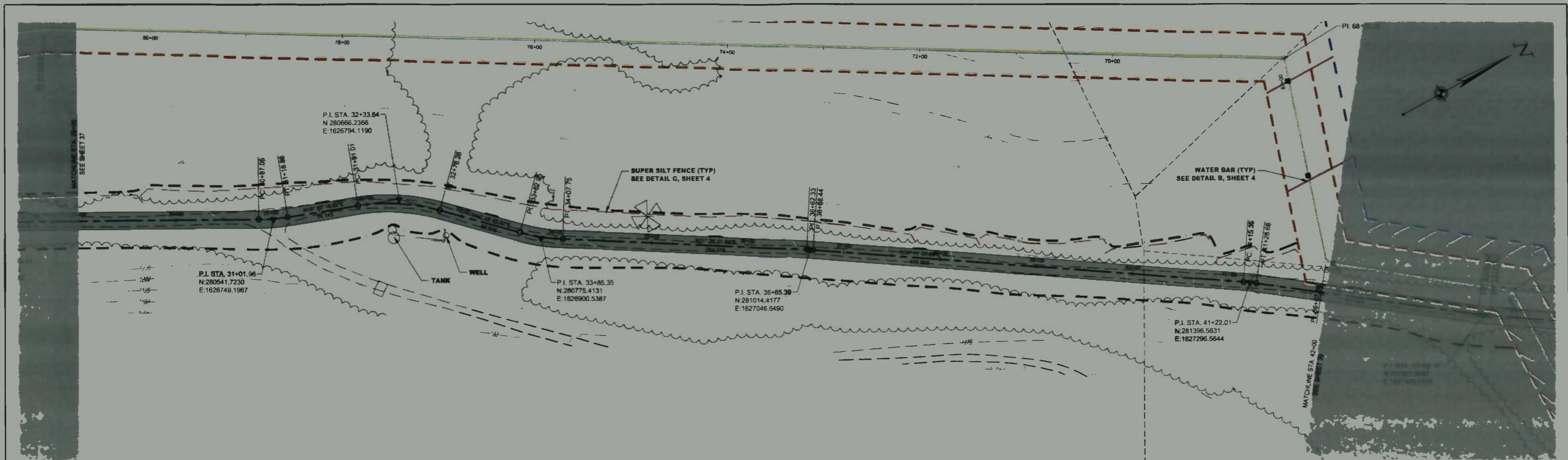
SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
					1	08/29/14	REVISED PER CONC. COMMENTS



**SHERWOOD SOUTH PIPELINE**  
**TAR-2 PLAN AND PROFILE**  
STATION(S): 14+50 TO 29+00

**One Gathering LLC**  
ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE: 08/29/2014  
JOB NO.: 90126  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.  
37 of 60



TAR-2 (UPGRADED) PROFILE  
Scale: 1" = 50' Horiz., 1" = 25' Vert.

LEGEND

- EXISTING BENCH CONTOUR
- EXISTING INTERIOR OF CONTOUR
- PROPOSED INTERIOR CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PIPE METALL BY OPEN CUT
- PIPE METALL BY BORE
- PERMANENT EMBANKMENT
- TEMPORARY EMBANKMENT
- LOT
- BURIED ELECTRIC
- OVERHEAD LINE
- WATER LINE
- FENCE
- PROPERTY LINE
- RAIL SERVICE LINE
- UTILITY LINE
- CL ROAD
- EDGE OF ROAD
- TIE LINE
- STRONG
- SUPER SILT FENCE (TYP)
- SILT FENCE
- WATER BAR (TYP)
- TIE ROD PILE
- PROPOSED PERMANENT ACCESS ROADS
- PROPOSED TEMPORARY ACCESS ROADS
- PROPOSED METLANDS
- NEW METLANDS
- ASB OF PROPERTY

IFC

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
					1	09/09/14	REVISED PER CONE COMMENTS



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TAR-2 PLAN AND PROFILE

STATION(S): 29+00 TO 42+00

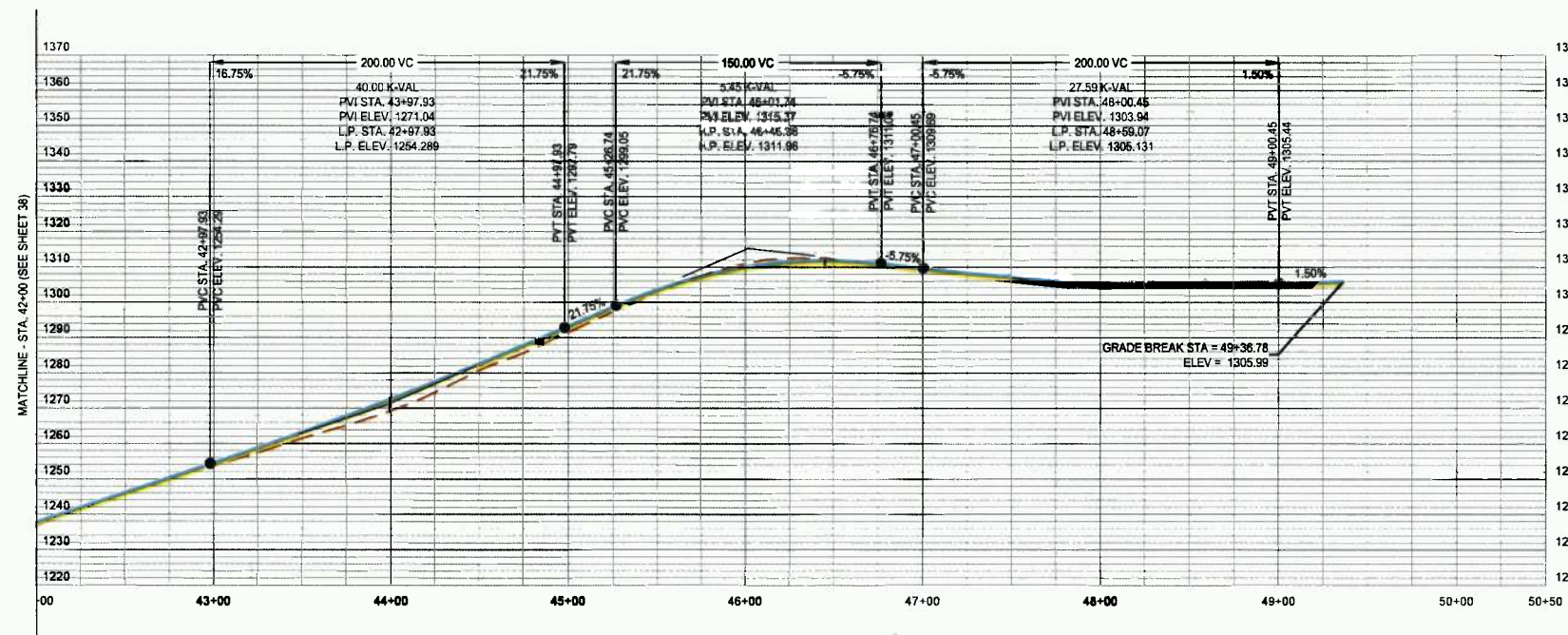
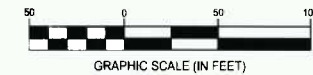
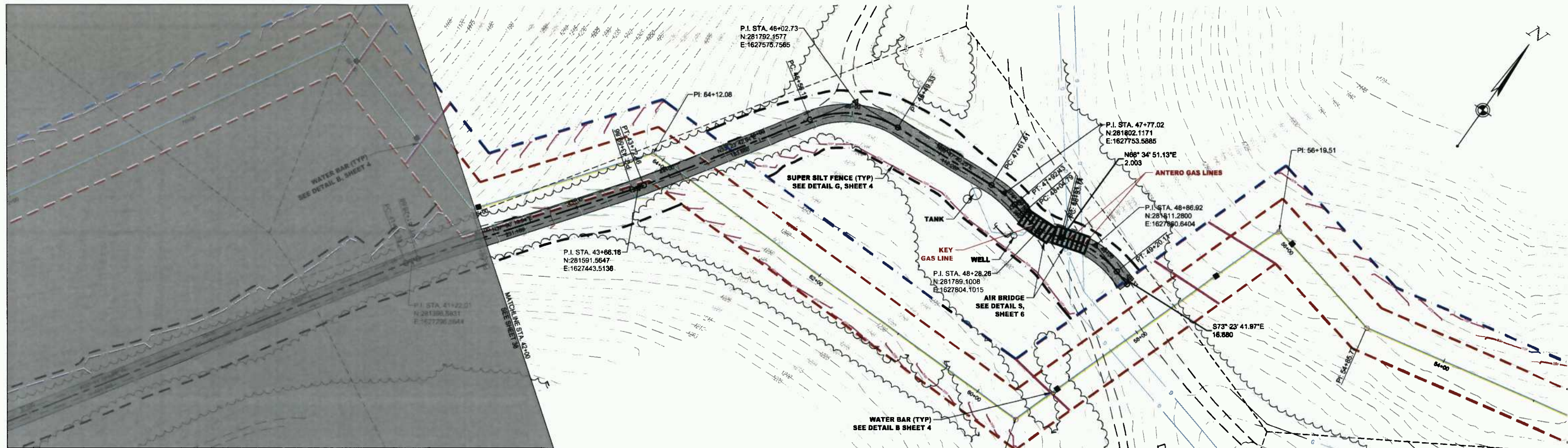
One Gathering LLC

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE: 08/29/2014  
JOB NO.: 90126  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.

38 of 60





TAR-2 (UPGRADED) PROFILE  
Scale: 1" = 50' Horiz., 1" = 25' Vert.

LEGEND

- EXISTING ROAD CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PIPE METALL. BY SORE
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- LOC
- BURIED ELECTRIC
- OVERHEAD LINE
- WATER LINE
- FENCE
- PROPERTY LINE
- TAX DISTRICT LINE
- COUNTY LINE
- CL ROAD
- EDGE OF ROAD
- TREELINE
- STROAD
- SUPER SILT FENCE (IMP)
- SILT FENCE
- WATER BAR (IMP)
- TREESH PLUS
- PROPOSED PERMANENT ACCESS ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- PERM METALAND
- RESV METALAND
- RESV OFF PROPERTY

IFC

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
					1	09/05/14	REVISED PER CONE COMMENTS



SHERWOOD SOUTH PIPELINE

TAR-2 PLAN AND PROFILE

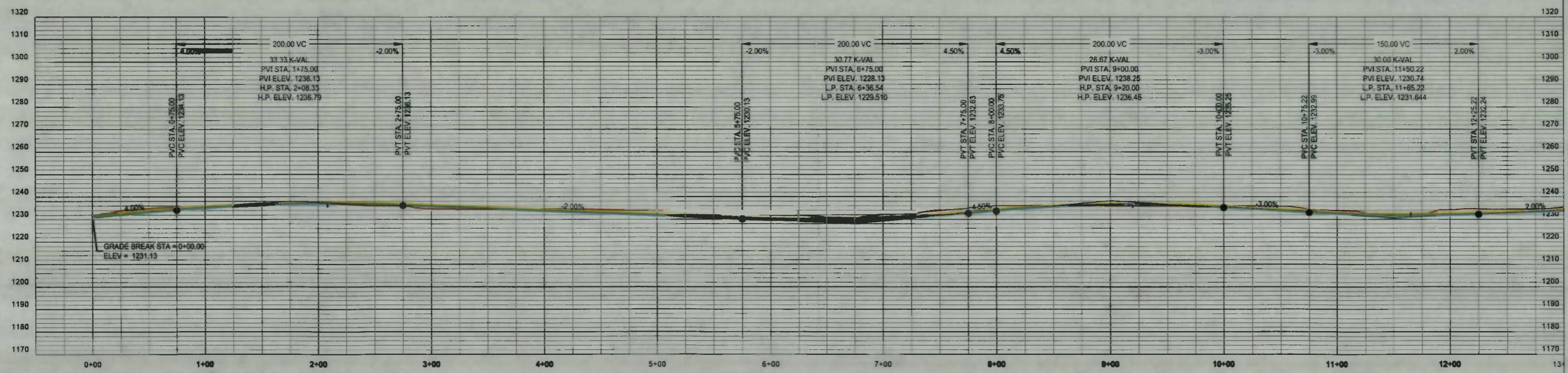
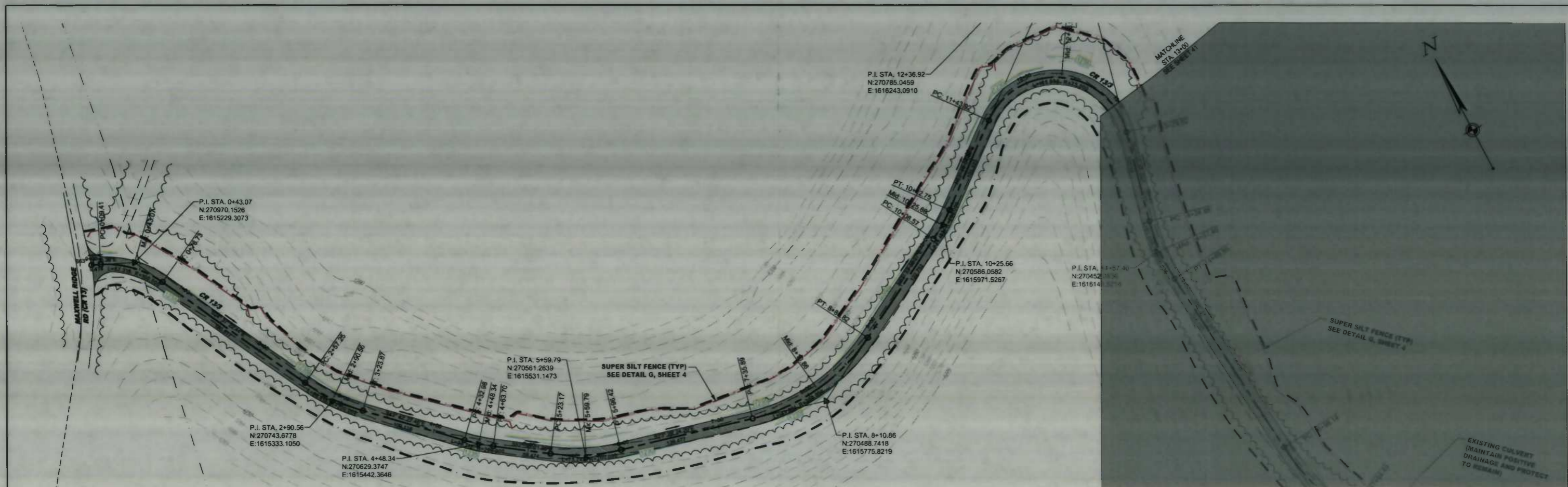
STATION(S): 42+00 TO 49+37

Stone Gathering LLC

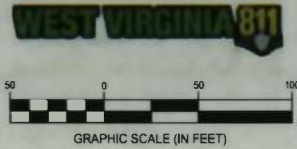
ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE: 08/29/2014  
JOB NO.: 90126  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.

39 of 60



CR13-3 (UPGRADED) PROFILE  
Scale: 1" = 50' Horiz., 1" = 25' Vert.



**LEGEND**

- EXISTING INDEX CONTOUR
- EXISTING INTERIMEDIATE CONTOUR
- PROPOSED INDEX CONTOUR
- PROPOSED INTERIMEDIATE CONTOUR
- PVC METAL BY OPEN CUT
- PVC METAL BY ROSE
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- 1:00
- BURIED ELECTRIC
- OVERHEAD LINE
- WATER LINE
- SEWER LINE
- FENCE
- PROPERTY LINE
- TAX DISTRICT LINE
- COUNTY LINE
- ROAD
- EDGE OF ROAD
- STREETS
- SUPER SILT FENCE (SSF)
- ELFTRENCH
- WATER BULK HEAD
- TRENCH PLUG
- PROPOSED PERMANENT ACCESS ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- PROPOSED WETLANDS
- PROPOSED EASEMENT
- KEEP OFF PROPERTY

**IFC**

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
					1	09/05/14	REVISED PER CONE COMMENTS

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**SHERWOOD SOUTH PIPELINE**

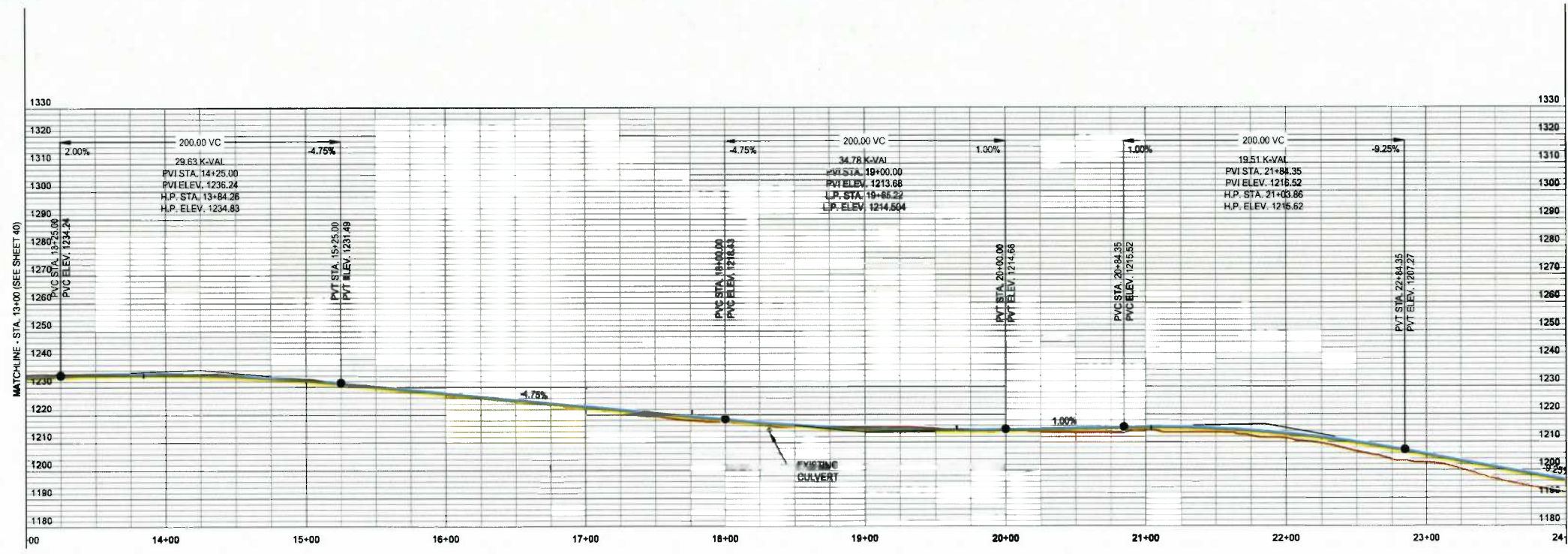
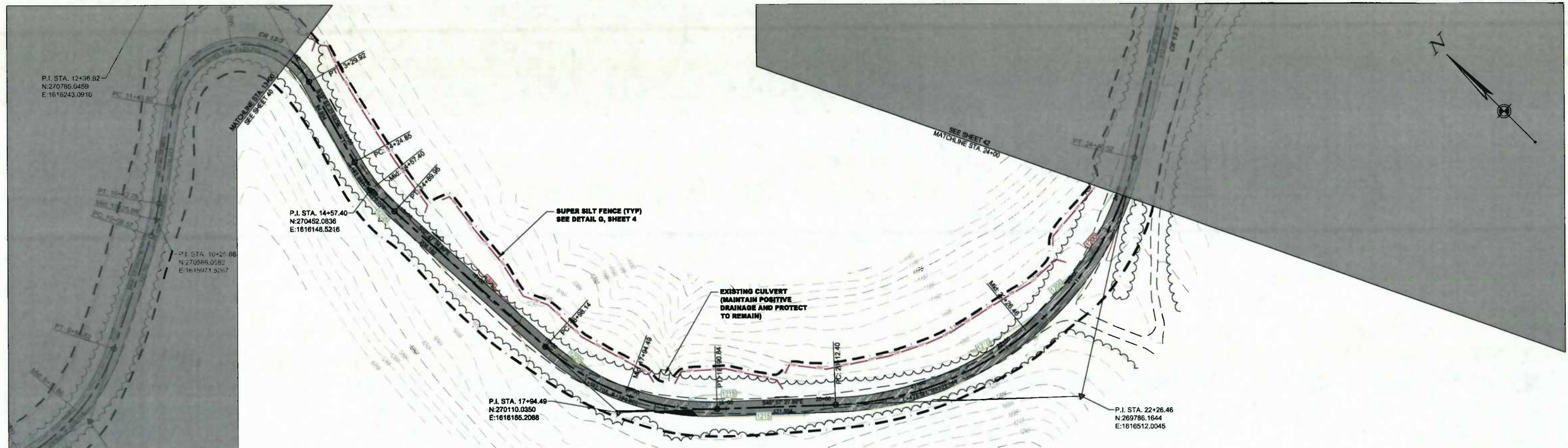
CR 13-3 PLAN AND PROFILE

STATION(S): 0+00 TO 13+00

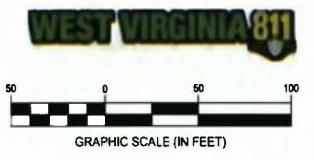
**One Gathering LLC**

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE: 08/29/2014  
JOB NO.: 90126  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.  
**40 of 60**



CR13-3 (UPGRADED) PROFILE  
Scale: 1" = 50' Horiz., 1" = 25' Vert.



**LEGEND**

- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PIPE ALL BY OPEN CUT
- PIPE ALL BY BORE
- PERMANENT DRAINAGE
- TEMPORARY DRAINAGE
- 100'
- BLANK ELECTRIC
- OVERHEAD LINE
- WATER LINE
- SEWER
- TRUCK
- PROPERTY LINE
- TAX DISTRICT LINE
- COUNTY LINE
- CL ROAD
- TOP OF ROAD
- TREELINE
- STREAM
- SUPER SILT FENCE (SFF)
- SILT FENCE
- WATER BAR (WB)
- TRENCH PLUG
- PROPOSED PERMANENT ACCESS ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- PROPOSED VERTICAL CURVE
- PSM WETLANDS
- KEEP OFF PROPERTY

**IFC**

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
					1	08/29/14	REVISED PER CONE COMMENTS



**SHERWOOD SOUTH PIPELINE**

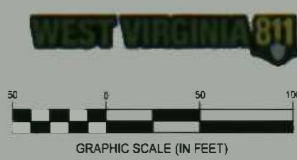
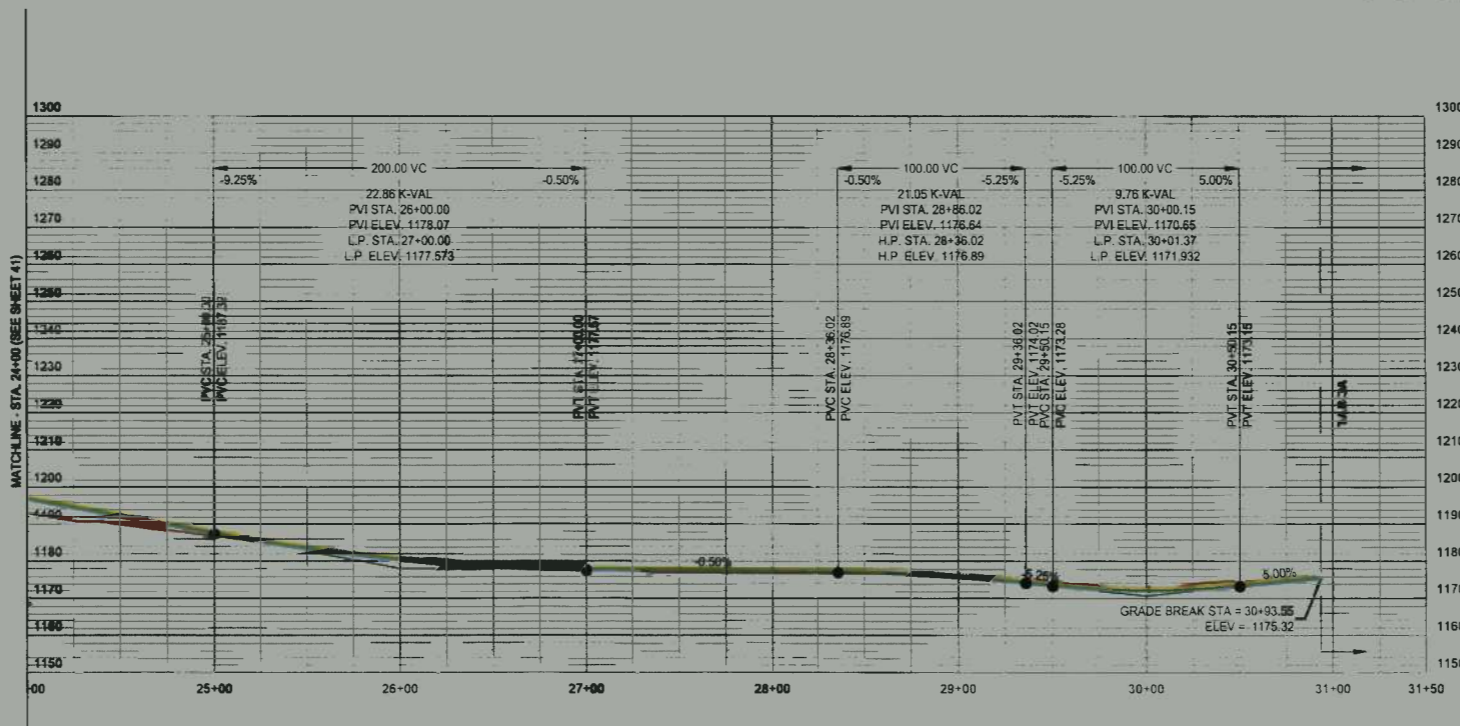
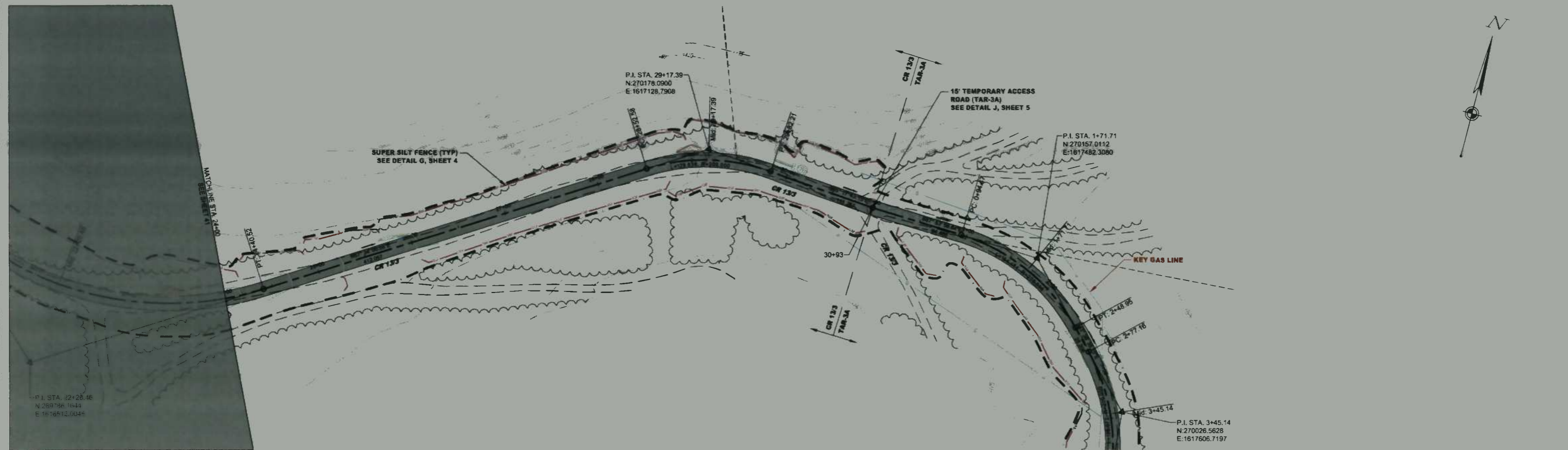
**CR 13-3 PLAN AND PROFILE**

STATION(S): 13+00 TO 24+00

**Stone Gathering LLC**

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE:	08/29/2014
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	41 of 60



**LEGEND**

- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PIPE INSTALL BY OPEN CUT
- PIPE INSTALL BY BORING
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- GP
- ARMED ELECTRIC
- UNARMED ELECTRIC
- WATER LINE
- FENCE
- FENCE
- PROPERTY LINE
- DISTRICT LINE
- COUNTY LINE
- C-ROAD
- FOGS OF ROAD
- TRAILLINE
- STRIPLINE
- BURIED TELEPHONE (BTL)
- SILT FENCE
- WATER BARRIERS
- TRINCH PLUG
- PROPOSED PERMANENT ACCESS ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- PERSIMMON LANDS
- PERM RETAINAGE
- KEEP OFF PROPERTY

**CR13-3 (UPGRADED) PROFILE**  
Scale: 1" = 50' Horiz., 1" = 25' Vert.

**IFC**

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
					1	09/09/14	REVISED PER CONE COMMENTS



**SHERWOOD SOUTH PIPELINE**

**CR 13-3 PLAN AND PROFILE**

STATION(S): 24+00 TO 30+93

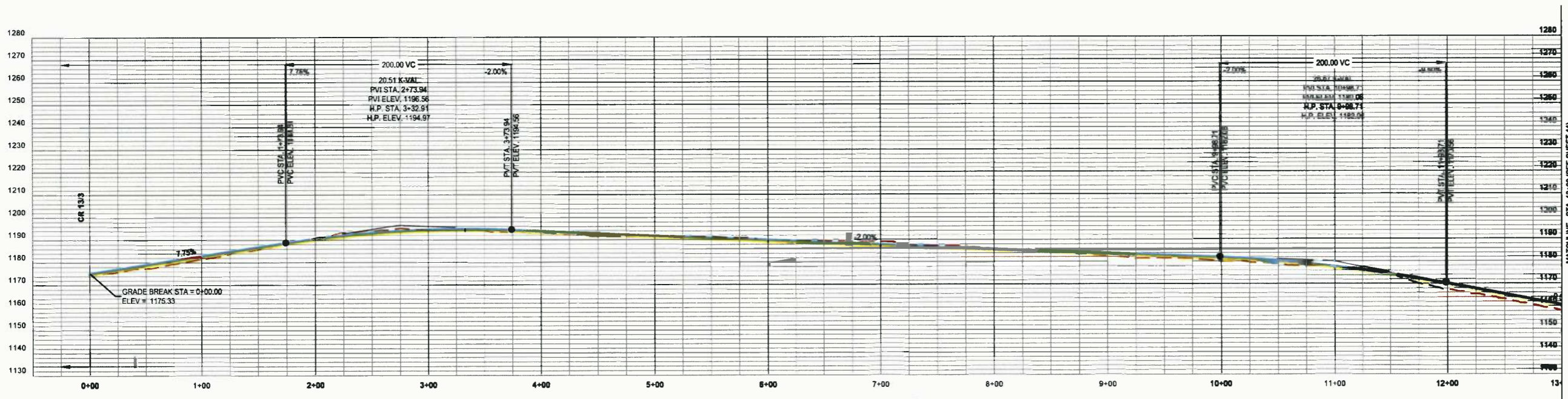
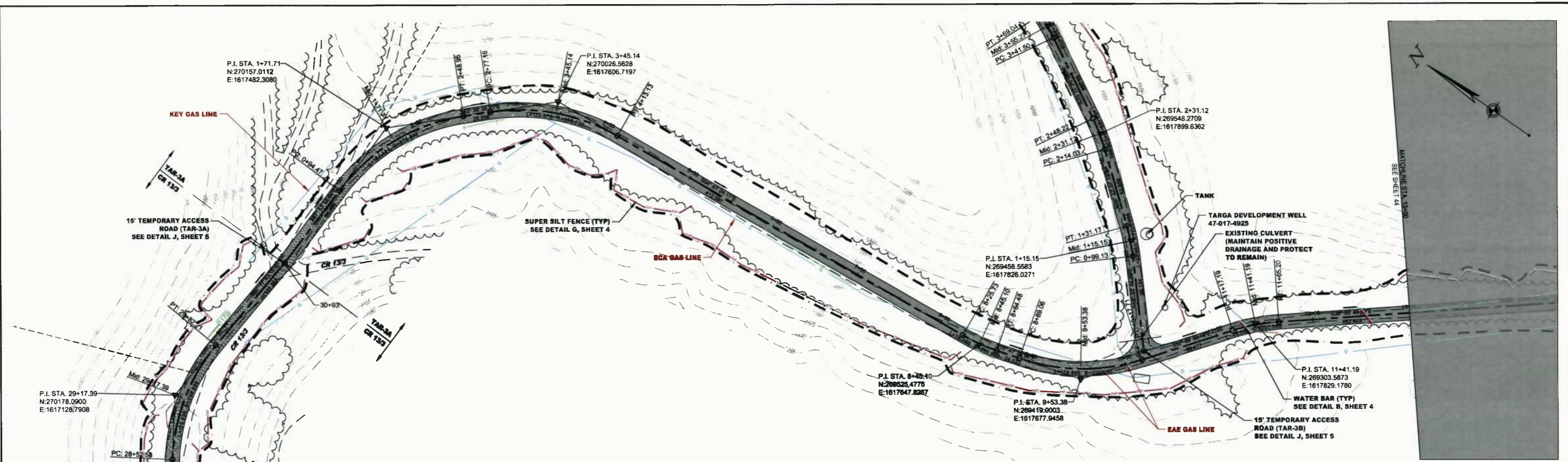
**One Gathering LLC**

ONE ENERGY DRIVE  
JANE LEW, WV 26378

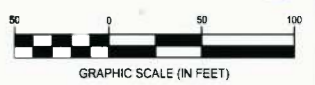
DATE:	08/29/2014
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	

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08/29/2014  
DATE



TAR-3A (UPGRADED) PROFILE  
Scale: 1" = 50' Horiz., 1" = 25' Vert.



**LEGEND**

- EXISTING INTERMEDIATE CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PIPE METAL BY OPEN CUT
- PIPE METAL BY BORE
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- 8" BIPOLAR ELECTRIC
- OVERHEAD LINE
- WATER LINE
- FENCE
- FENCE
- PROPERTY LINE
- TOWNSHIP LINE
- COUNTY LINE
- E. ROAD
- EOB OF ROAD
- TREE LINE
- STREAM
- SUPER SILT FENCE (SIF)
- SILT FENCE
- WATER BAR (WB)
- TRENCH
- PROPOSED PERMANENT ACCESS ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- P&M WETLANDS
- P&M WETLANDS
- BOP OFF PROPERTY

IFC

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
					1	08/05/14	REVISED PER CONE COMMENTS



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TAR-3A PLAN AND PROFILE

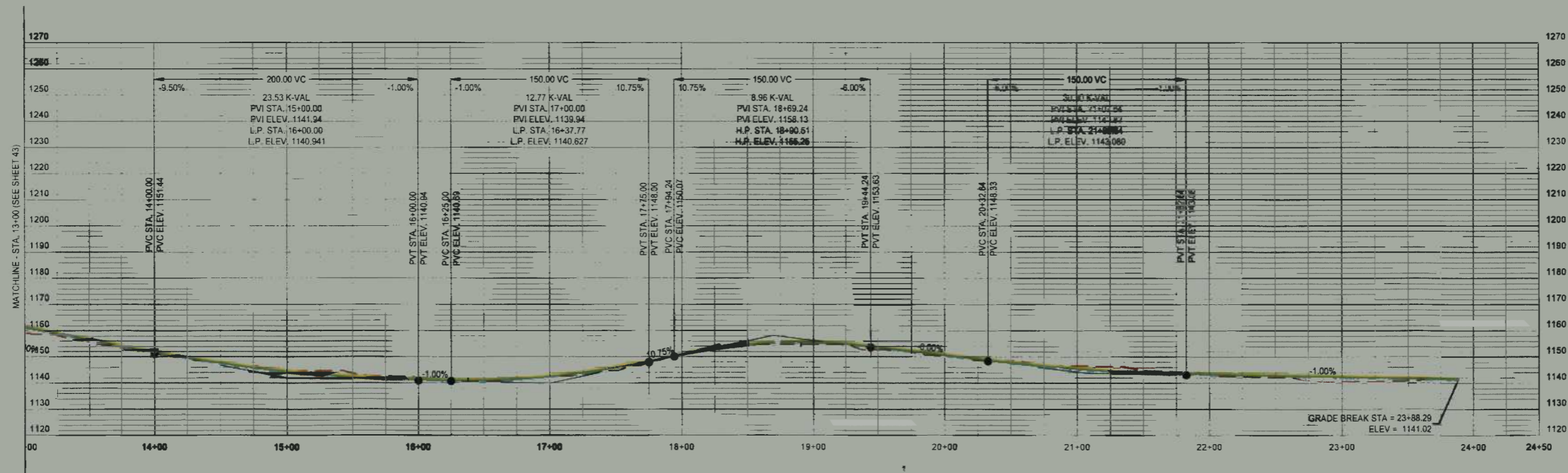
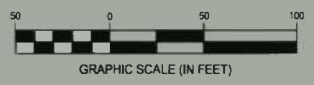
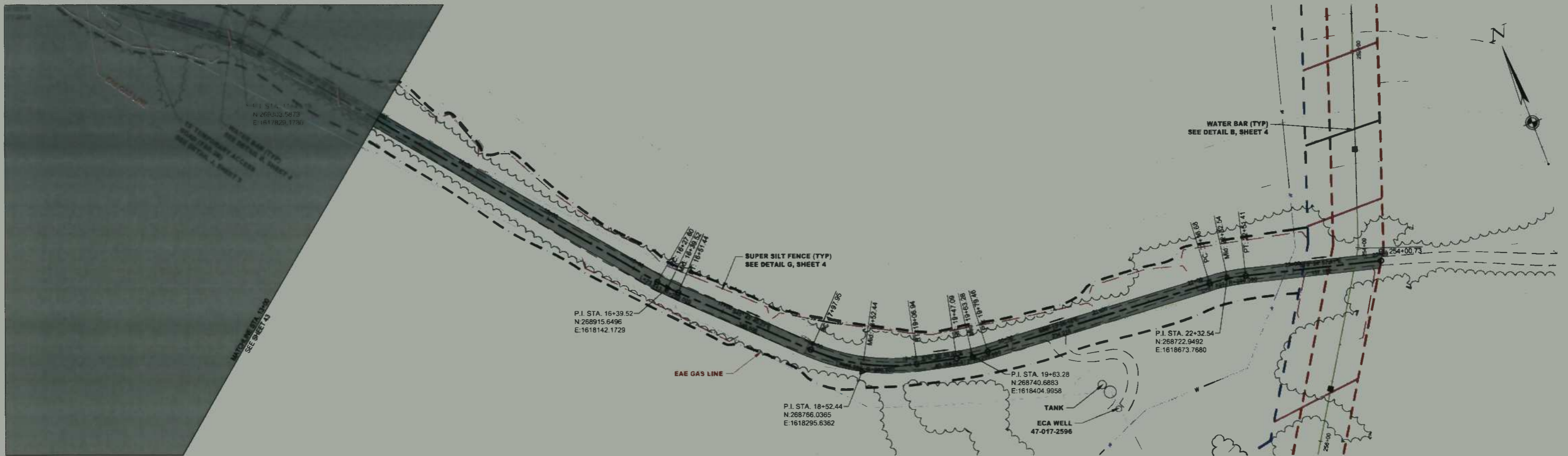
STATION(S): 0+00 TO 13+00

One Gathering LLC

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE: 08/29/2014  
JOB NO.: 90126  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.

43 of 60



TAR-3A (UPGRADED) PROFILE  
Scale: 1" = 50' Horiz.; 1" = 25' Vert.

LEGEND

- EXISTING BENCH CONTOUR
- EXISTING INTERMENTS CONTOUR
- PROPOSED BENCH CONTOUR
- PROPOSED INTERMENTS CONTOUR
- PIPE INSTALL BY BORER
- PIPE INSTALL BY OPEN CUT
- PERMANENT BASEMENT
- TEMPORARY BASEMENT
- LD
- INSULATED ELECTRIC
- OVERHEAD LINE
- WATER LINE
- FENCE
- PROPERTY LINE
- TRAIL
- COUNTY LINE
- CL ROAD
- EDGE OF ROAD
- TREELINE
- STREAM
- SUPER SILT FENCE (50')
- SILT FENCE
- WATER BAR (TYP)
- TRUCK PILE
- PROPOSED PERMANENT ACCESS ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- PERMANENT FENCE
- KEEP OFF PROPERTY

IFC

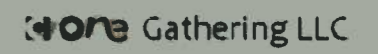
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MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
					1	09/09/14	REVISED PER CONE COMMENTS



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TAR-3A PLAN AND PROFILE



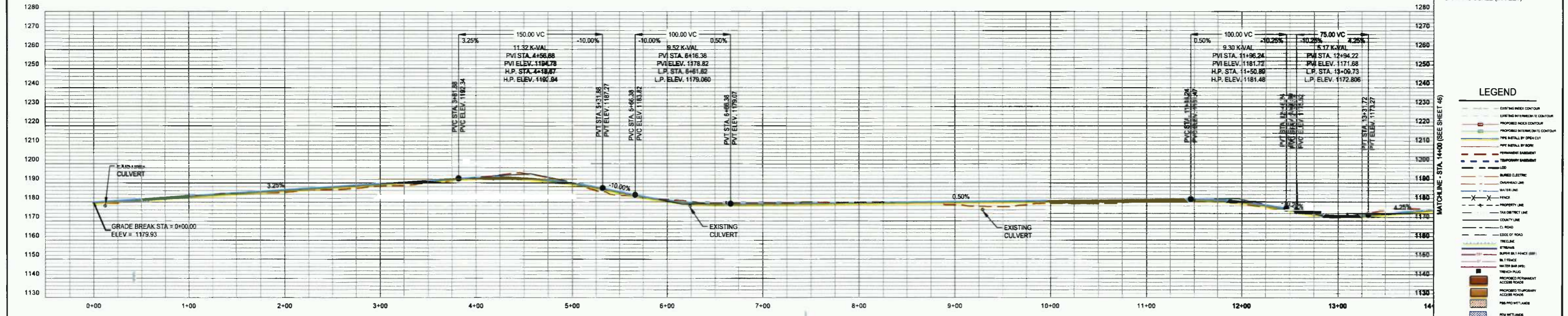
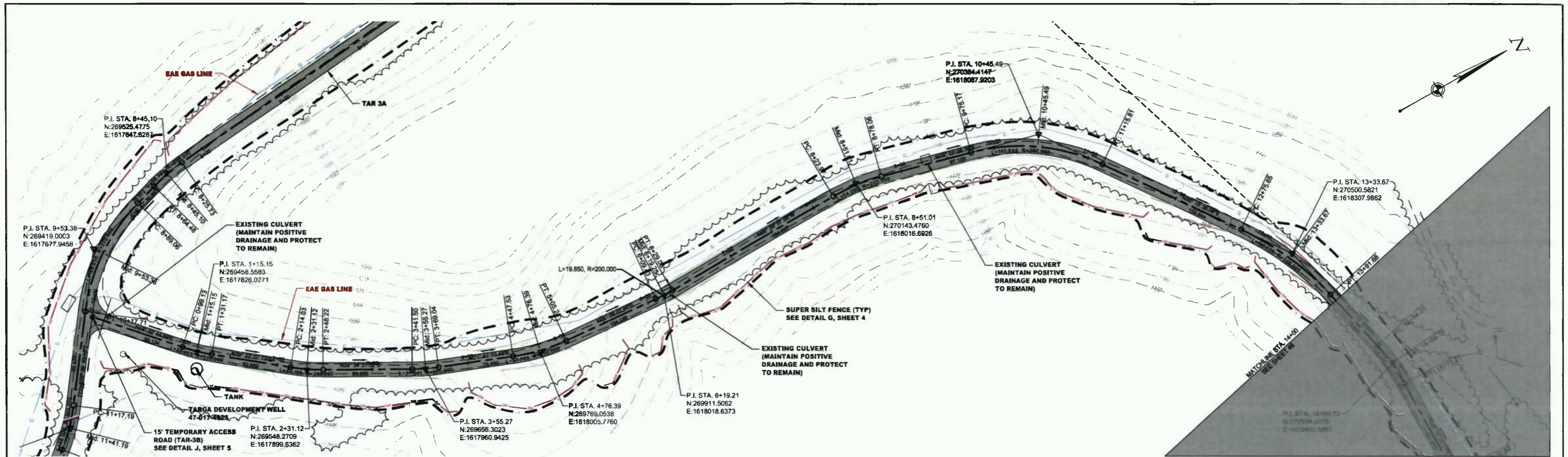
ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE:	08/29/2014
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	

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08/29/2014  
DATE

STATION(S): 13+00 TO 23+96



TAR-3B (UPGRADED) PROFILE  
Scale: 1" = 50' Horiz., 1" = 25' Vert.

IFC  
08/29/2014  
DATE

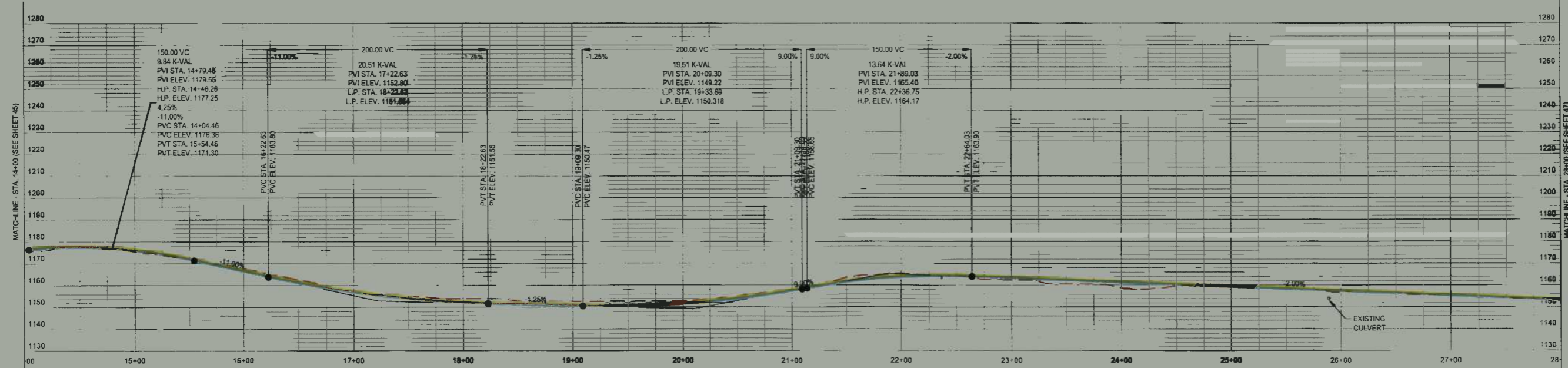
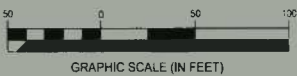
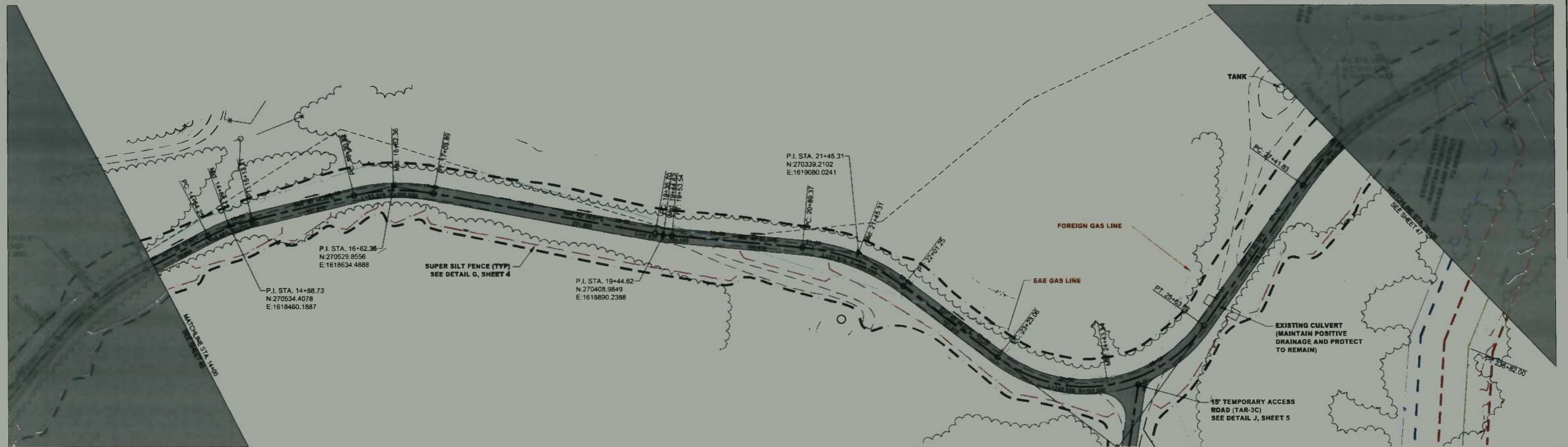
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MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
					1	08/29/14	REVISED PER CONE COMMENTS



SHERWOOD SOUTH PIPELINE  
TAR-3B PLAN AND PROFILE  
STATION(S): 0+00 TO 14+00

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ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE: 08/29/2014  
JOB NO.: 90126  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.  
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TAR-3B (UPGRADED) PROFILE  
Scale: 1" = 50' Horiz.; 1" = 25' Vert.

**LEGEND**

- EXISTING BOUNDARY
- EXISTING ALTERNATE CENTERLINE
- PROPOSED ROAD CENTERLINE
- PROPOSED TEMPORARY CENTERLINE
- PVC METAL PIPE CULVERT
- PVC METAL PIPE TRENCH
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- ROAD
- BLIND ELECTRIC
- OVERHEAD LINE
- WATER LINE
- FENCE
- PROPERTY LINE
- TAX DISTRICT LINE
- COUNTY LINE
- CL ROAD
- EDGE OF ROAD
- TREASURY
- STRENGTH
- SUPER SILT FENCE (TYP)
- SLY FENCE
- WATER BAR (TYP)
- TRENCH PLUG
- PROPOSED PERMANENT ACCESS ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- PROPOSED METHODS
- NEW WELLS
- KEEP OFF PROPERTY

IFC

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
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TAR-3B PLAN AND PROFILE

STATION(S): 14+00 TO 28+00

Stone Gathering LLC

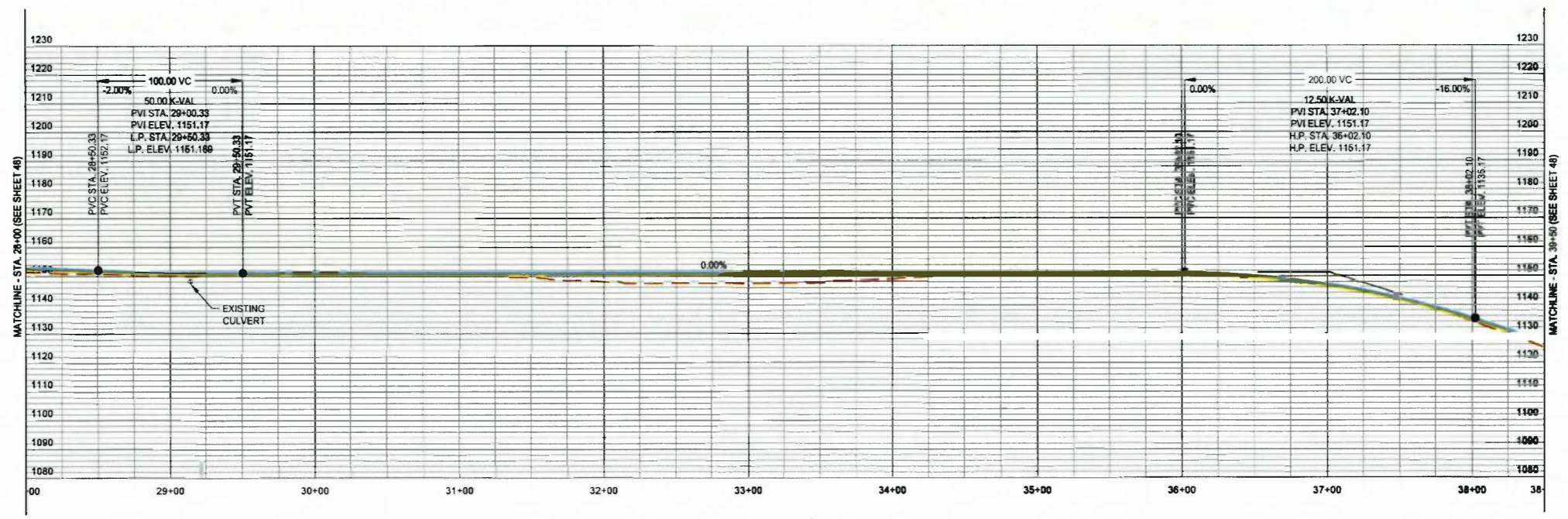
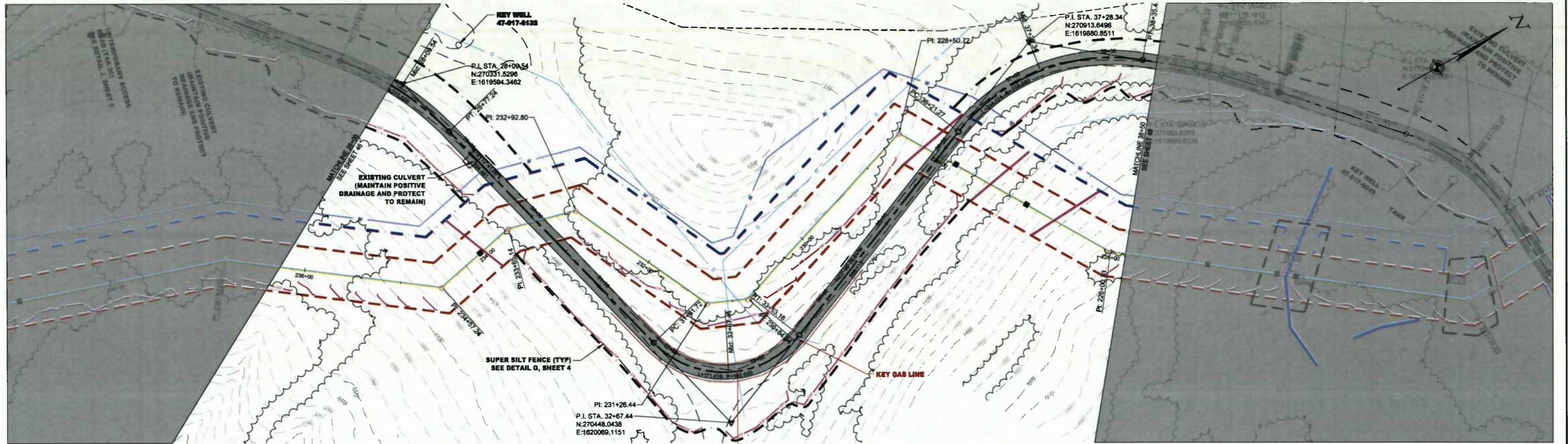
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JANE LEW, WV 26378

DATE: 08/29/2014  
JOB NO.: 90126  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
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08/29/2014  
DATE





TAR-3B (UPGRADED) PROFILE  
Scale: 1" = 50' Horiz., 1" = 25' Vert.

**LEGEND**

- EXISTING BENCH CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- PROPOSED BENCH CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PIPE METALL BY OPEN CUT
- PIPE METALL BY BORING
- PROPERTY BOUNDARY
- TEMPORARY BOUNDARY
- LOD
- SURVED ELECTRIC
- OVERHEAD LINE
- WATER LINE
- FENCE
- PROPERTY LINE
- THE DISTRICT LINE
- COUNTY LINE
- CL ROAD
- EDGE OF ROAD
- TIE LINE
- STAKE LINE
- SUPER SILT FENCE (SIF)
- SILT FENCE
- WATER BAR (WB)
- FRENCH DRILL
- PROPOSED PERMANENT ACCESS ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- PERMITS BOUNDARY
- PERMITS
- KEEP OFF PROPERTY

**IFC**

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SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
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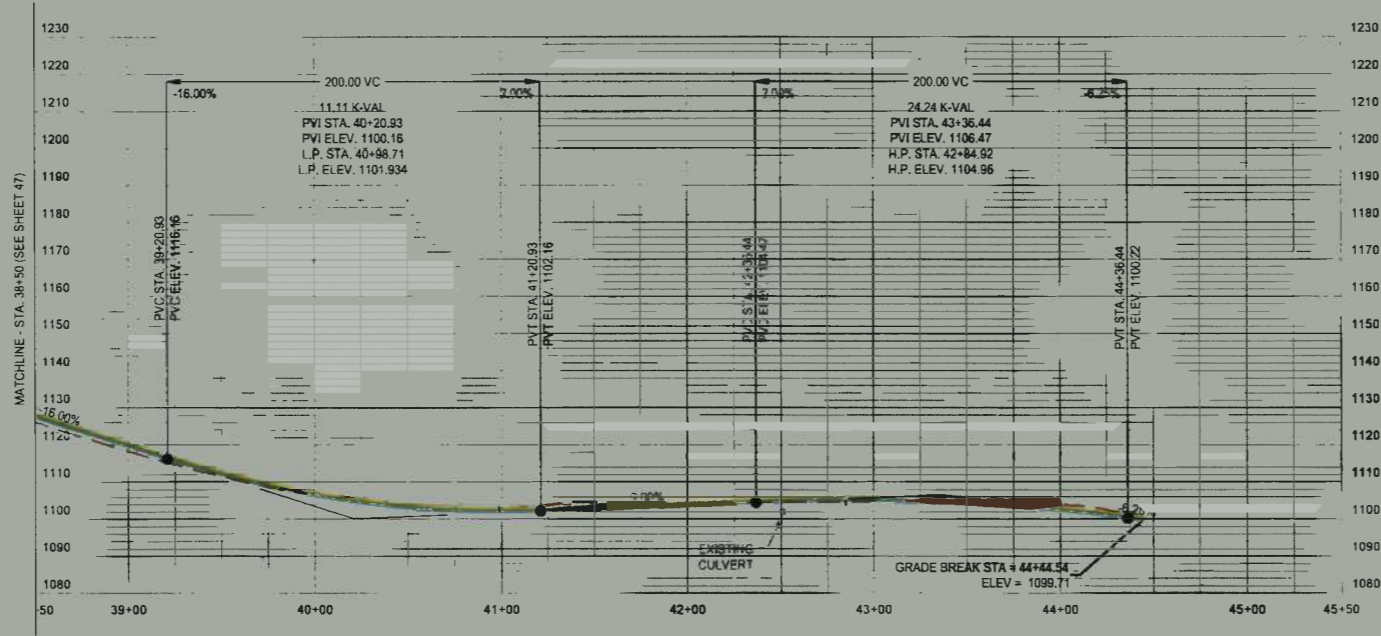
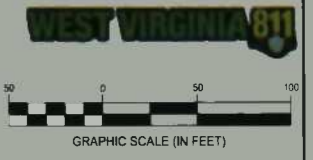
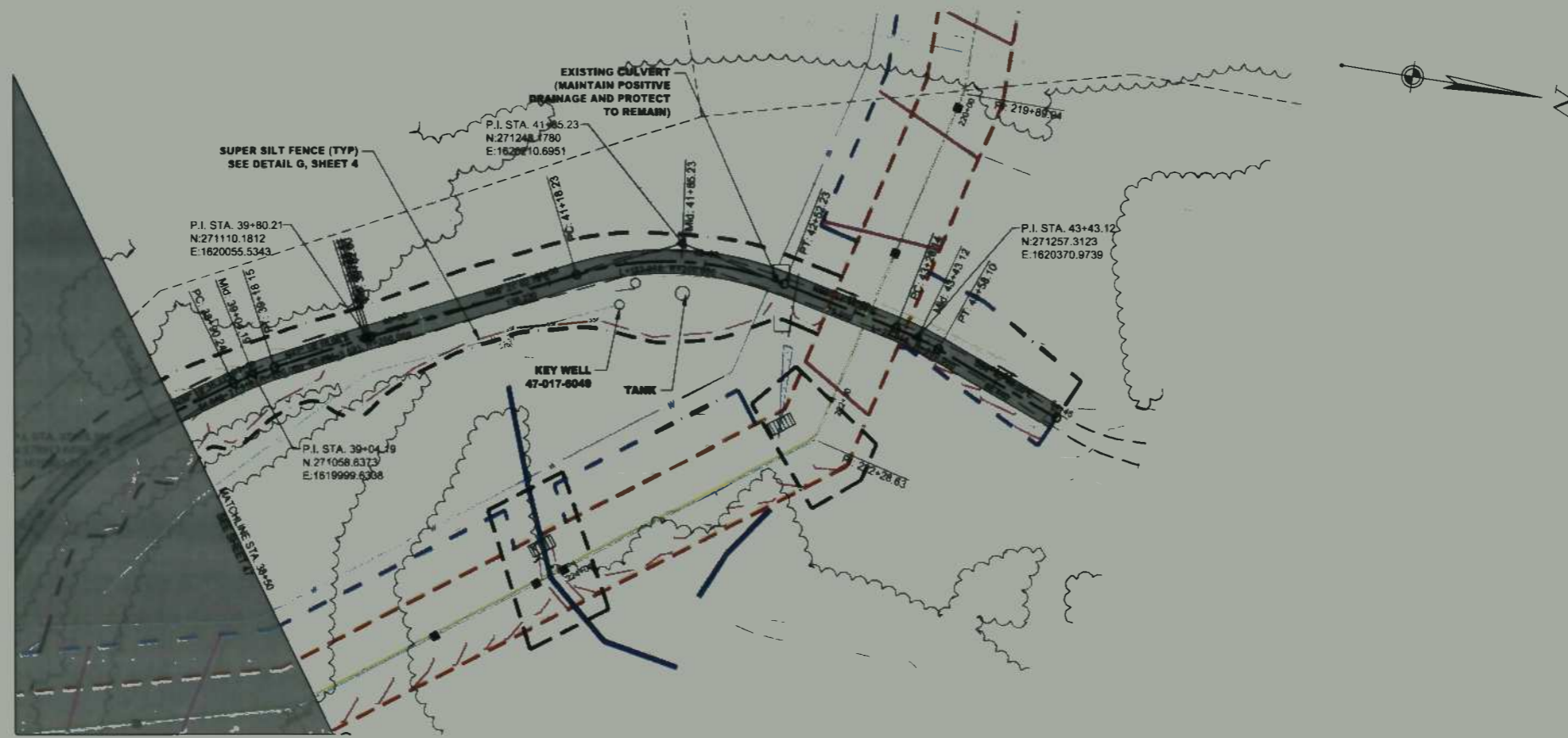
**TAR-3B PLAN AND PROFILE**

STATION(S): 28+00 TO 38+50

**Stone Gathering LLC**

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JANE LEW, WV 26378

DATE: 08/29/2014  
JOB NO.: 90126  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.  
**47 of 60**



TAR-3B (UPGRADED) PROFILE  
Scale: 1" = 50' Horiz., 1" = 25' Vert.

**LEGEND**

- EXISTING HOUSING CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- PROPOSED HOUSING CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PIPE METAL BY OPEN CUT
- PIPE METAL BY BOX
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- LOD
- ARMED ELECTRIC
- OVERHEAD LINE
- WATER LINE
- PROPERTY LINE
- TAX DISTRICT LINE
- COUNTY LINE
- CL ROAD
- EDGE OF ROAD
- TRAILING
- STRAILING
- SUPER SILT FENCE SUP
- SE FENCE
- HWY 10.5 BAR LINE
- HWY 10.5 FLAG
- PROPOSED PERMANENT ACCO TO ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- PSP/MO WETLANDS
- PSP WETLANDS
- KEEP OFF PROPERTY

IFC

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
					1	09/05/14	REVISED PER CONE COMMENTS

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TAR-3B PLAN AND PROFILE

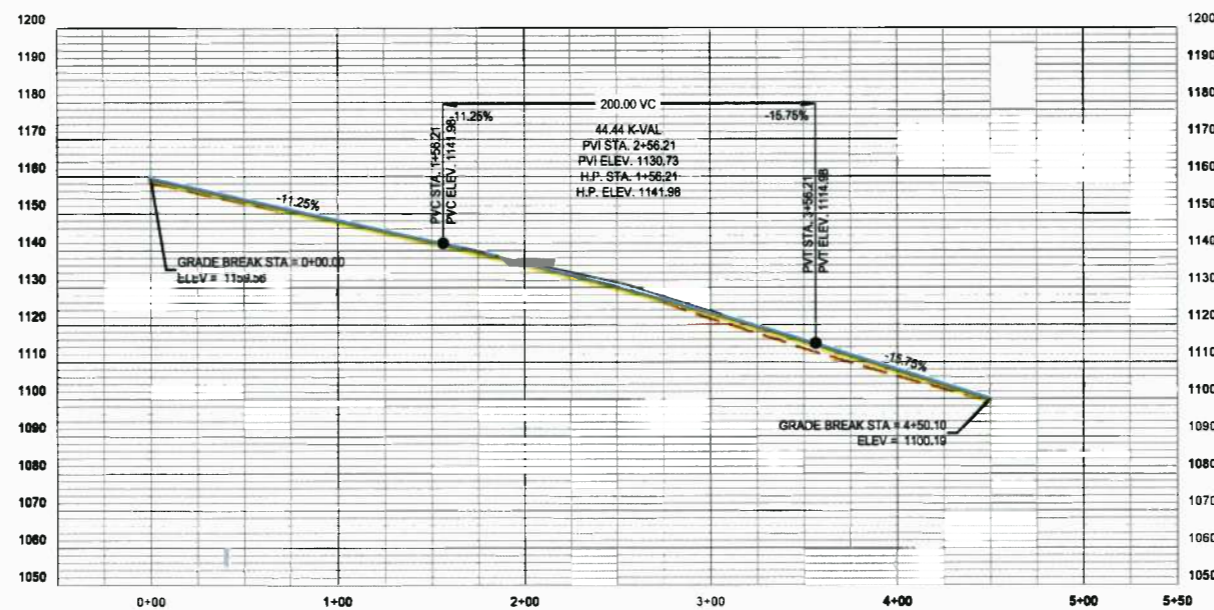
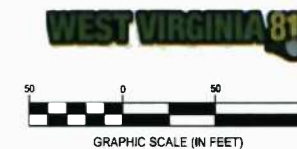
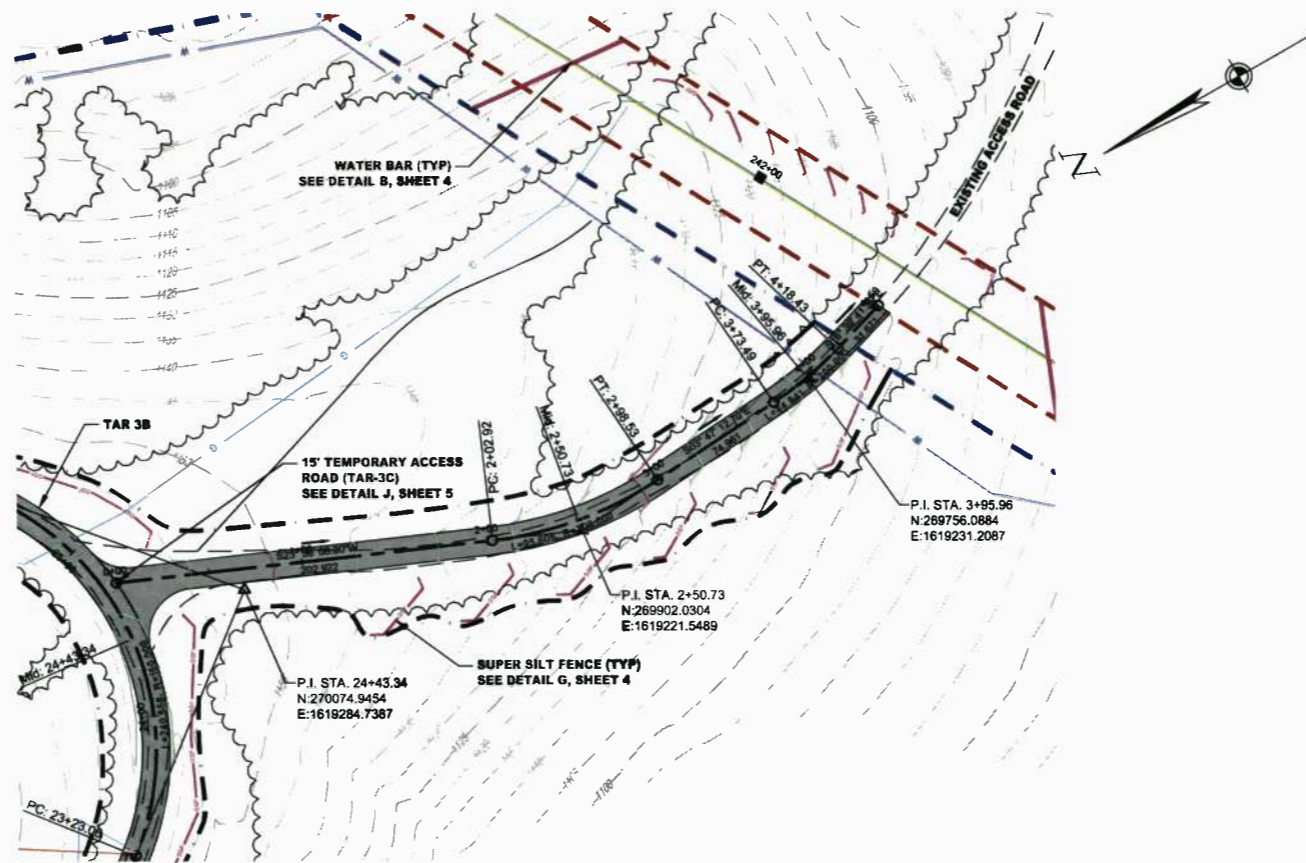
STATION(S): 38+50 TO 44+45

One Gathering LLC

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE:	08/29/2014
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	48 of 60

08/29/2014  
DATE



TAR-3C (UPGRADED) PROFILE  
Scale: 1" = 50' Horiz., 1" = 25' Vert.

**LEGEND**

- EXISTING BAREY CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PIPE METALL BY OPEN CUT
- PIPE METALL BY BORE
- PERMANENT EMBANKMENT
- TEMPORARY EMBANKMENT
- LOTS
- BURIED ELECTRIC
- OVERHEAD LINE
- WATER LINE
- FENCE
- PROPERTY LINE
- TAX DISTRICT LINE
- COUNTY LINE
- C. ROAD
- EDGE OF ROAD
- TREELINE
- STREAM
- SUPER SILT FENCE (SIF)
- SILT FENCE
- WATER BAR (WB)
- FRENCH PLUG
- PROPOSED PERMANENT ACCESS ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- PROPOSED RETAINING WALL
- PROPOSED TRENCH
- STEP OFF PROPERTY

**IFC**

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
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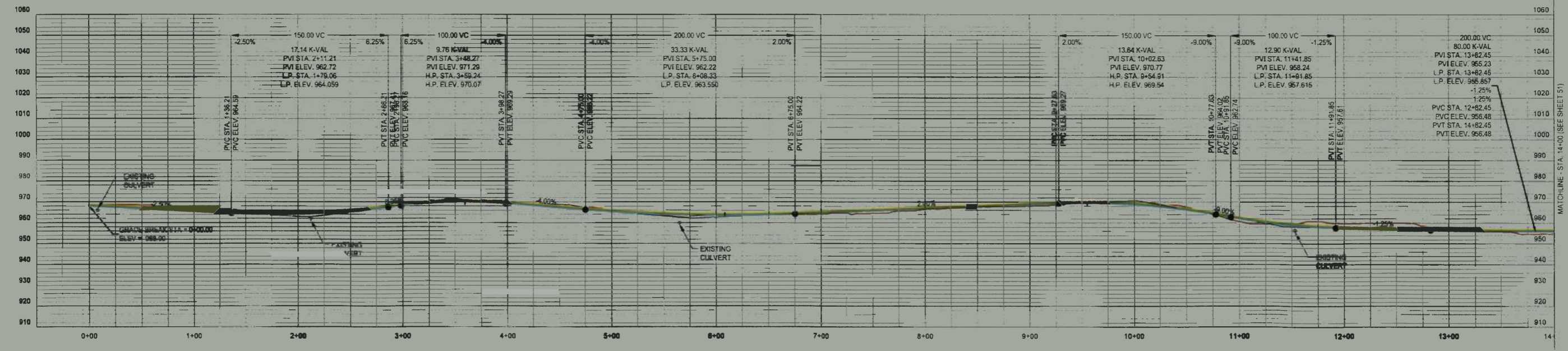
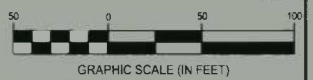
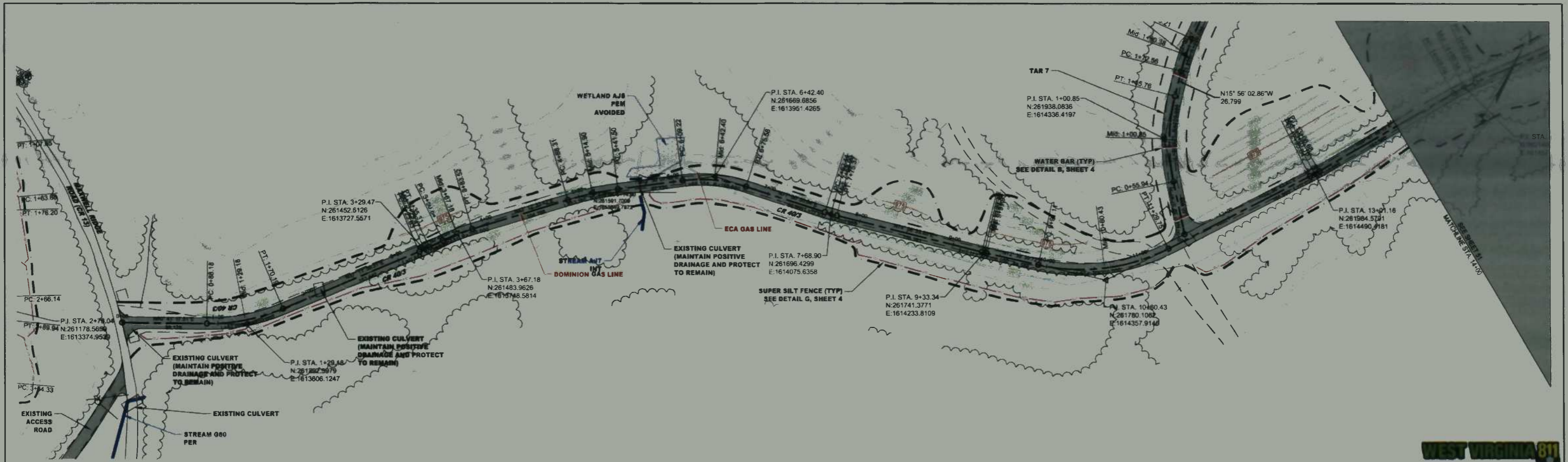
TAR-3C PLAN AND PROFILE

STATION(S): 0+00 TO 4+74

**Home Gathering LLC**

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JANE LEW, WV 26378

DATE: 08/29/2014  
JOB NO.: 90126  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.  
**49 of 60**



**LEGEND**

- EXISTING HOUSING CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- PROPOSED HOUSING CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PROPOSED BY OPEN CUT
- PROPOSED BY FILL
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- LOD
- SURF ELEVATION
- OVERHEAD LINE
- WATER LINE
- PROF
- PROPERTY LINE
- TAX DISTRICT LINE
- COUNTY LINE
- CL ROAD
- EDGE OF ROAD
- TRENCH
- SUPER SILT FENCE (SFP)
- SILT FENCE
- WATER BAR AND TRENCH PLUS
- PROPOSED PERMANENT ACCESS ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- UTILITY LABELS
- NEW WETLANDS
- KEEP-ON PROPERTY

CR 40-3 (UPGRADED) PROFILE  
Scale: 1" = 50' Horiz., 1" = 25' Vert.

**IFC**

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
					1	09/05/14	REVISED PER CONE COMMENTS



**SHERWOOD SOUTH PIPELINE**

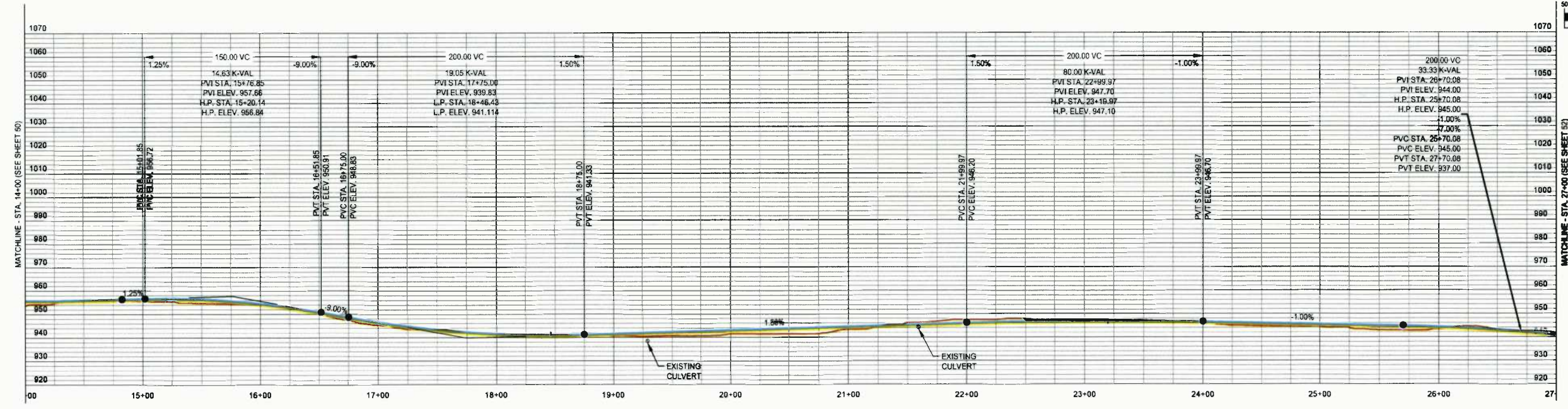
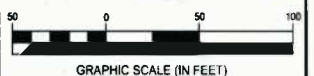
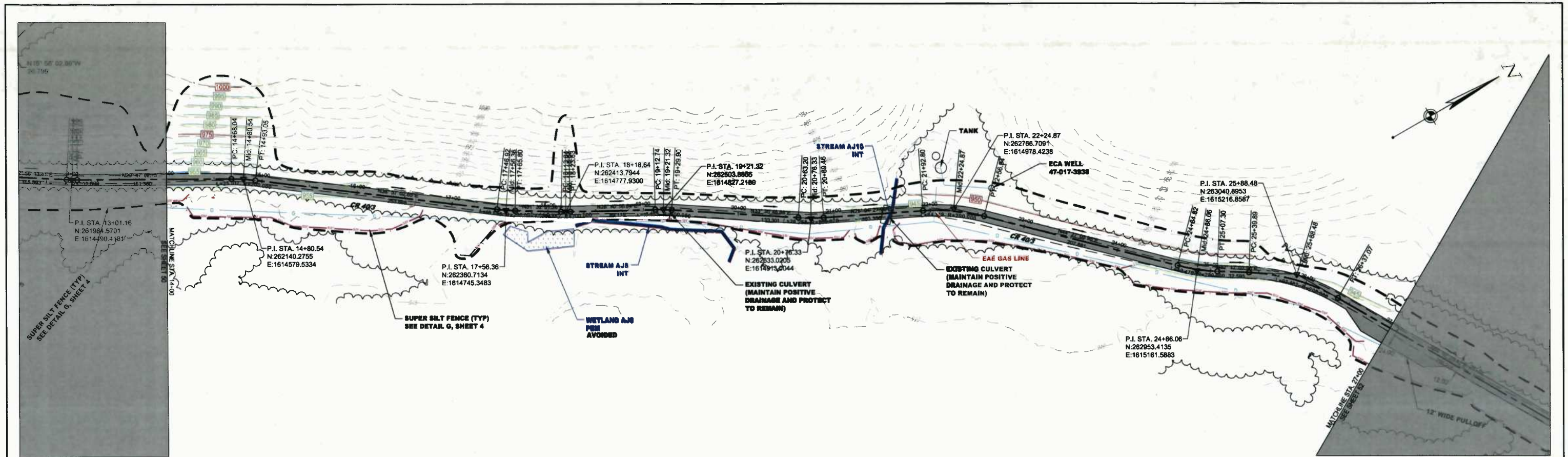
CR 40-3 PLAN AND PROFILE

STATION(S): 0+00 TO 14+00

**More Gathering LLC**

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE: 08/29/2014  
JOB NO.: 90126  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.: 50 of 60



CR 40-3 (UPGRADED) PROFILE  
Scale: 1" = 50' Horiz.; 1" = 25' Vert.

**LEGEND**

- EXISTING SIDE CONTOUR
- EXISTING INTERSECTION CENTERLINE
- PROPOSED CENTERLINE
- PROPOSED INTERSECTION CENTERLINE
- PVI METAL BY OTHER CUT
- PVI METAL BY BORE
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- UIC
- BARRIED ELECTRIC
- ONE PHASE LINE
- WATER LINE
- FENCE
- FENCE
- PROPERTY LINE
- TOWN DISTRICT LINE
- COUNTY LINE
- R.O.W.
- EDGE OF ROAD
- TRAILBLAZE
- STREAM
- SUPER SILT FENCE (STP)
- SILT FENCE
- WATER MAIN PIPE
- TRENCH PLUG
- PROPOSED PERMANENT ACCESS ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- PROPOSED WETLAND
- PFM WETLAND
- KEEP OFF PROPERTY

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SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
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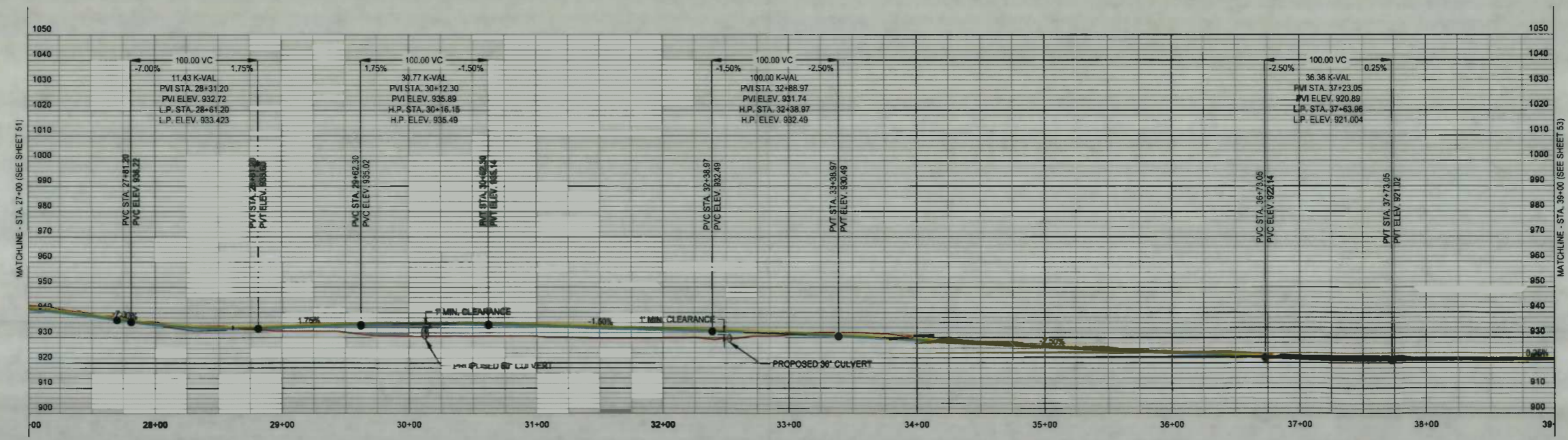
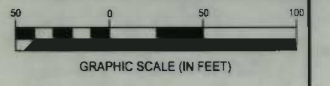
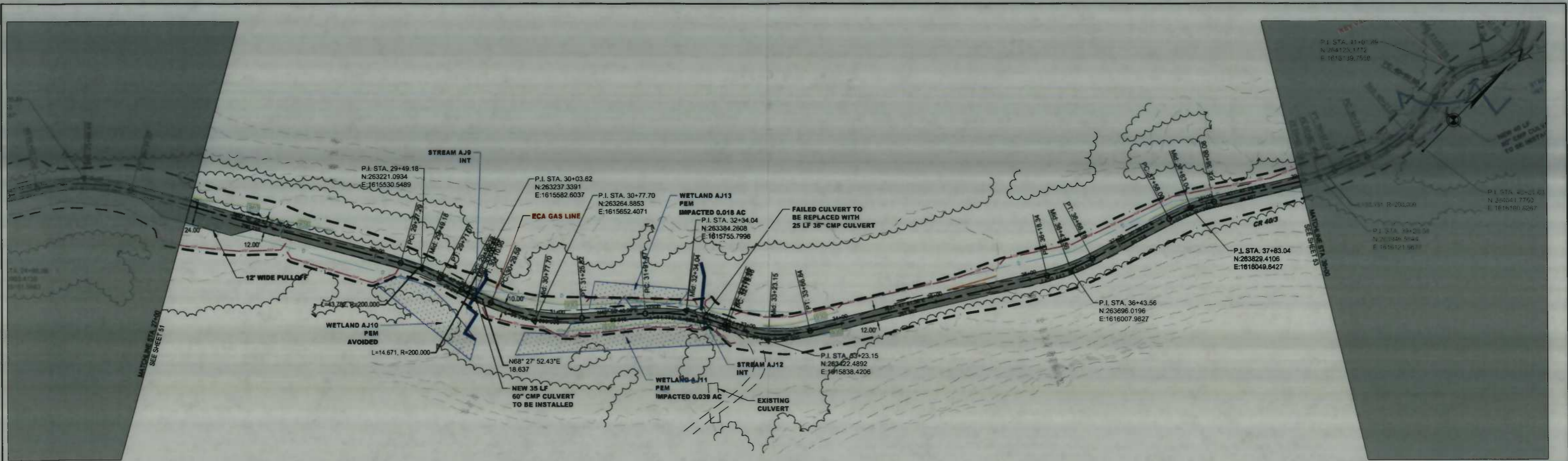
CR 40-3 PLAN AND PROFILE

STATION(S): 14+00 TO 27+00

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JANE LEW, WV 26378

DATE: 08/29/2014  
JOB NO.: 90126  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.  
**51 of 60**



CR 40-3 (UPGRADED) PROFILE  
Scale: 1" = 50' Horiz., 1" = 25' Vert.

**LEGEND**

- EXISTING INDEX CONTOUR
- EXISTING TERRAIN CONTOUR
- PROPOSED ROAD CONTOUR
- PROPOSED IMPROVEMENT CONTOUR
- PIPE INSTALL BY OPEN CUT
- PIPE INSTALL BY BORE
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- LOD
- BURIED ELECTRIC
- CABLE/PHONE LINE
- WATER LINE
- FENCE
- PROPERTY LINE
- TAX DISTRICT LINE
- COUNTY LINE
- CL ROAD
- EDGE OF ROAD
- TRAILING
- STREAM
- BURIED FENCE (SPT)
- SET FENCE
- WATER BAR (SPT)
- TRENCH PLUS
- PROPOSED PERMANENT ACCESS ROADS
- PROPOSED TEMPORARY ACCESS ROADS
- PROPOSED WETLANDS
- PEM WETLANDS
- WETLANDS PROPERTY

IFC

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
					1	09/05/14	REVISED PER CONE COMMENTS



SHERWOOD SOUTH PIPELINE

CR 40-3 PLAN AND PROFILE

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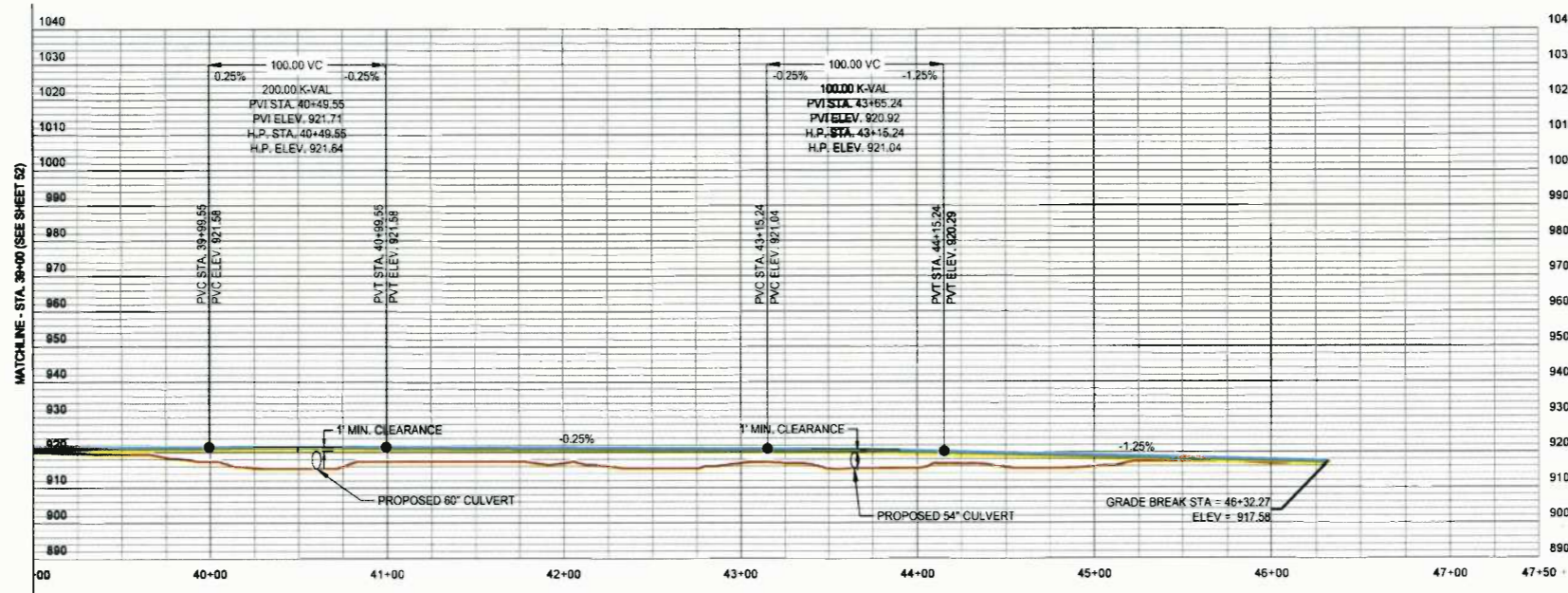
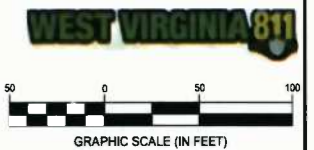
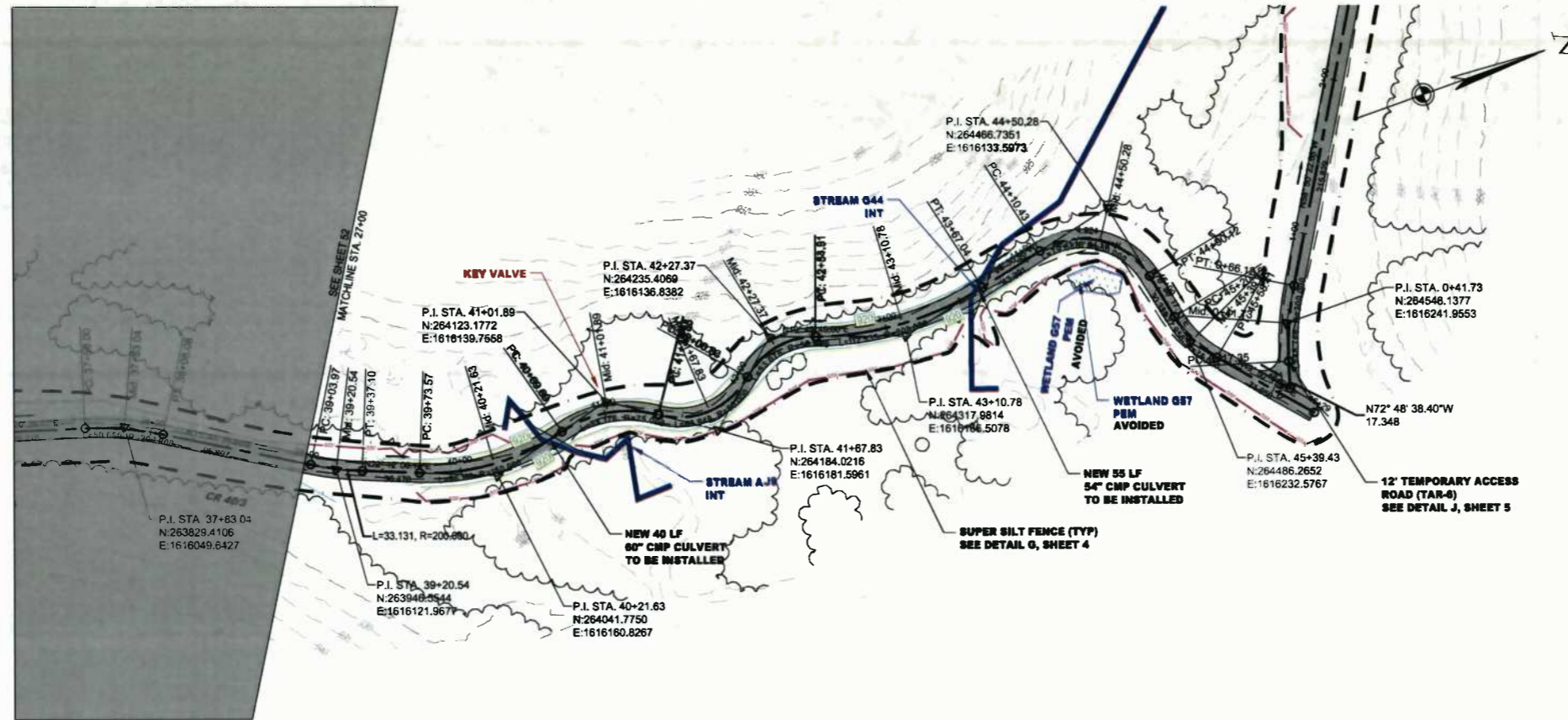
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DATE:	08/29/2014
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
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08/29/2014  
DATE

STATION(S): 27+00 TO 39+00



CR 40-3 (UPGRADED) PROFILE  
Scale: 1" = 50' Horiz.; 1" = 25' Vert.

**LEGEND**

- EXISTING BODY CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- PROPOSED BODY CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PIPE INSTALL BY OPEN CUT
- PIPE INSTALL BY BORE
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- SHARED ELECTRIC OVERHEAD LINE
- WATER LINE
- FENCE
- PROPERTY LINE
- TAX DISTRICT LINE
- COUNTY LINE
- D. ROAD
- EDGE OF ROAD
- TREE LINE
- STREAM
- BARBED WIRE FENCE (BWF)
- WATER BAR (WB)
- BRUSH PILE
- PROPOSED TEMPORARY ACCESS ROAD
- PROPOSED PERMANENT ACCESS ROAD
- PROPOSED WETLAND
- PROPOSED WETLAND
- KEEP OFF PROPERTY

**IFC**

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
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**CR 40-3 PLAN AND PROFILE**

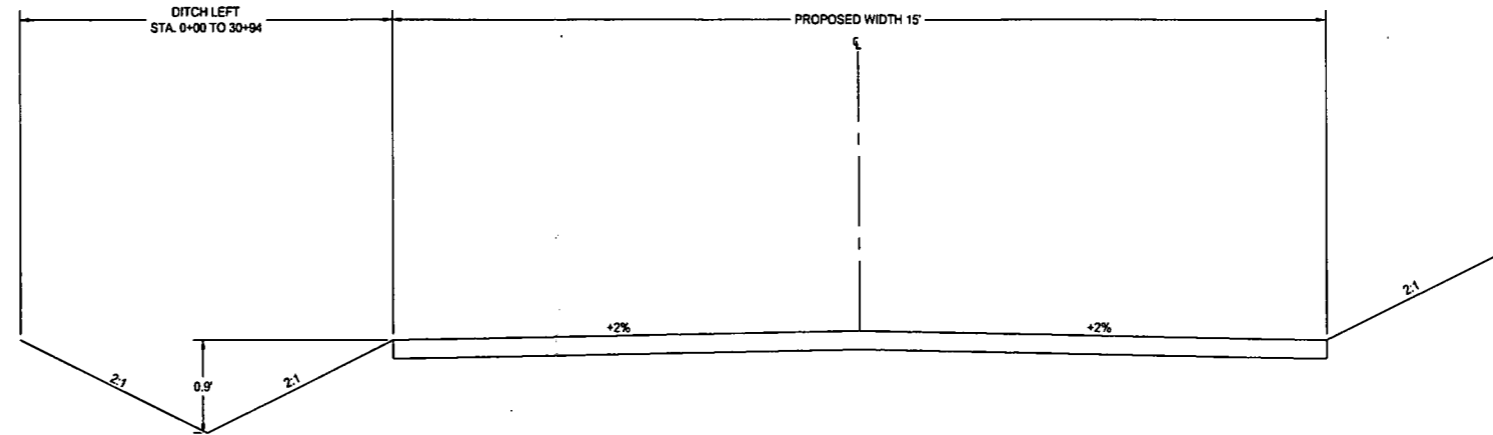
STATION(S): 39+00 TO 46+32

**Stone Gathering LLC**

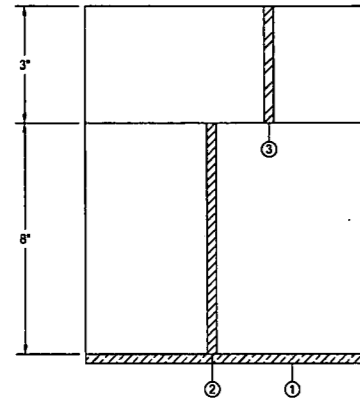
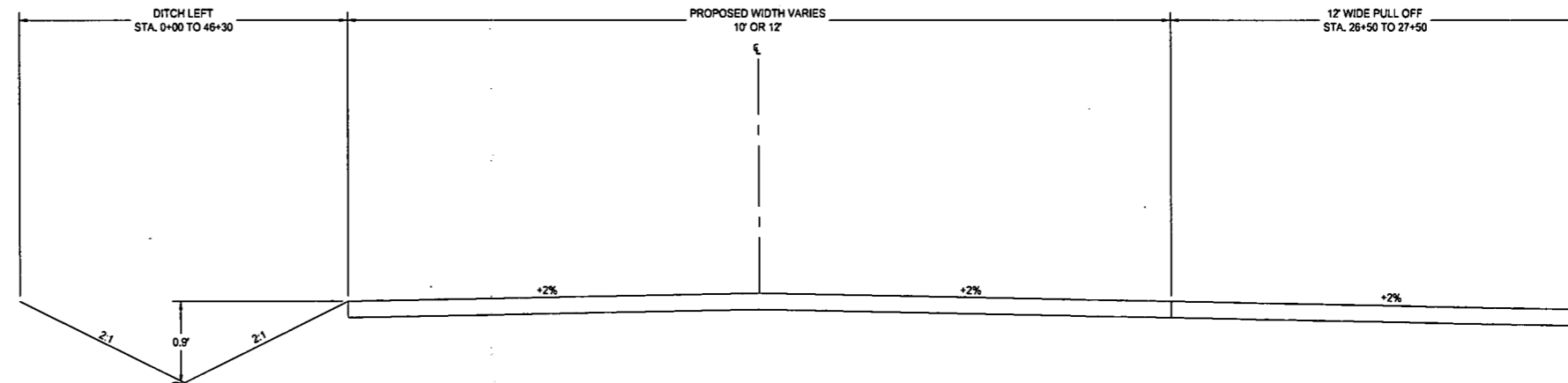
ONE ENERGY DRIVE  
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DATE:	08/29/2014
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
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SHEET NO.	53 of 60

COUNTY ROAD 13/3



COUNTY ROAD 40/3



1. WVD0H ITEM 207.09 SUBGRADE COMPACTION AND GEOTEXTILE FABRIC; PER WVD0H ITEM 715.11.
2. WVD0H ITEM 307 CRUSHED AGGREGATE BASE COURSE - AASHTO #1, LIMESTONE; PER WVD0H ITEM 704.6
3. WVD0H ITEM 307 CRUSHED AGGREGATE BASE COURSE - CLASS 1; PER WVD0H ITEM 704.6

NOTES:

SCARIFY EXISTING ROAD SURFACE TO A MINIMUM DEPTH OF 8 INCHES. REMOVE UNSUITABLE MATERIAL. GRADE SCARIFIED MATERIAL TO A MINIMUM 2% CROWN AND COMPACT WITH STEEL DRUM ROLLER. PLACE GEOTEXTILE STABILIZATION FABRIC OVER COMPACTED SUBGRADE AND PLACE COMPACTED LIFTS OF CITED GRADATIONS OF LIMESTONE.

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SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
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CR 13-3 AND 40-3 IMPROVEMENT DETAILS

STATION(S): N/A

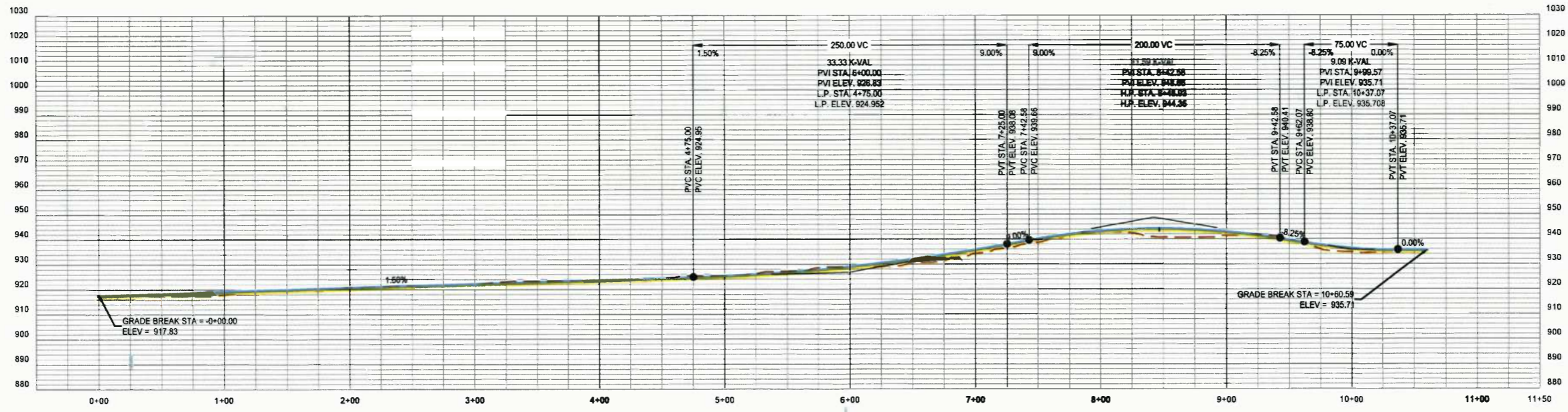
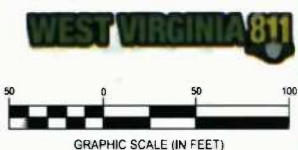
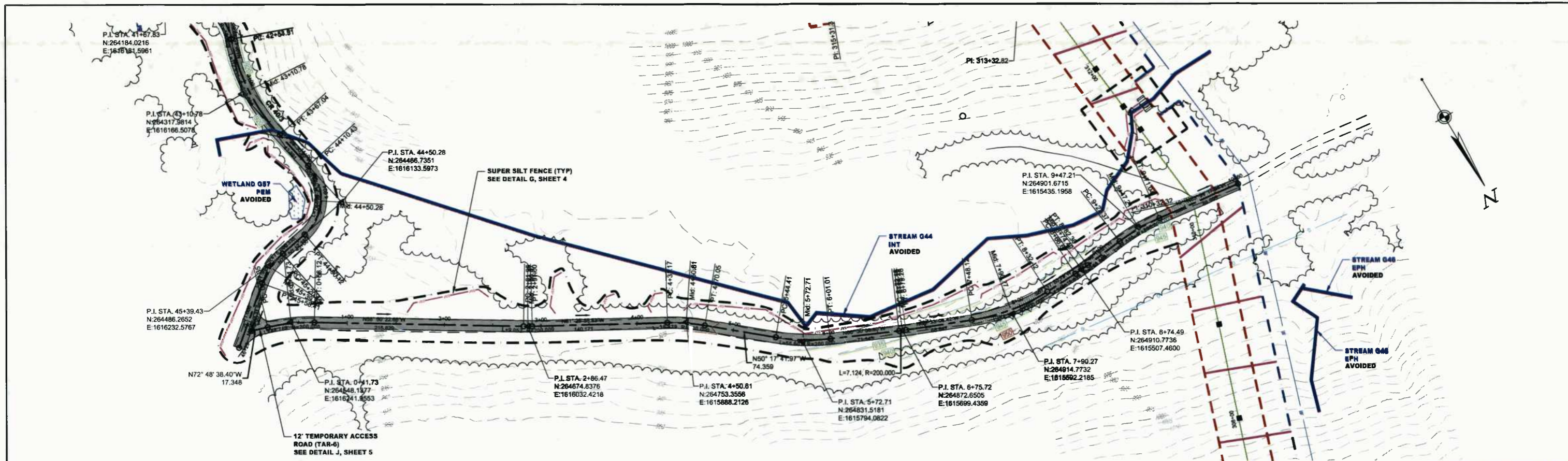
More Gathering LLC

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE: 08/29/2014  
JOB NO.: 90126  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.

54 of 60





**LEGEND**

- EXISTING INDEX CONTOUR
- EXISTING INTERIMENTS CONTOUR
- PROPOSED INDEX CONTOUR
- PROPOSED INTERIMENTS CONTOUR
- PPE METALS BY BORE
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- 100'
- BARRIED ELECTRIC
- OPEN FACILITY
- WATER LINE
- FENCE
- PROPERTY LINE
- TAX DISTRICT LINE
- COUNTY LINE
- D. ROAD
- EDGE OF ROAD
- TREELINE
- STREAM
- WATER BAR (15'x15')
- WATER BAR (10'x10')
- TRENCH PILE
- PROPOSED PERMANENT ACCESS ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- PERMANENT EASEMENT
- PERMANENT EASEMENT
- KEEP OFF PROPERTY

IFC  
 08/29/2014  
 DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
					1	08/05/14	REVISED PER CORRE COMMENTS

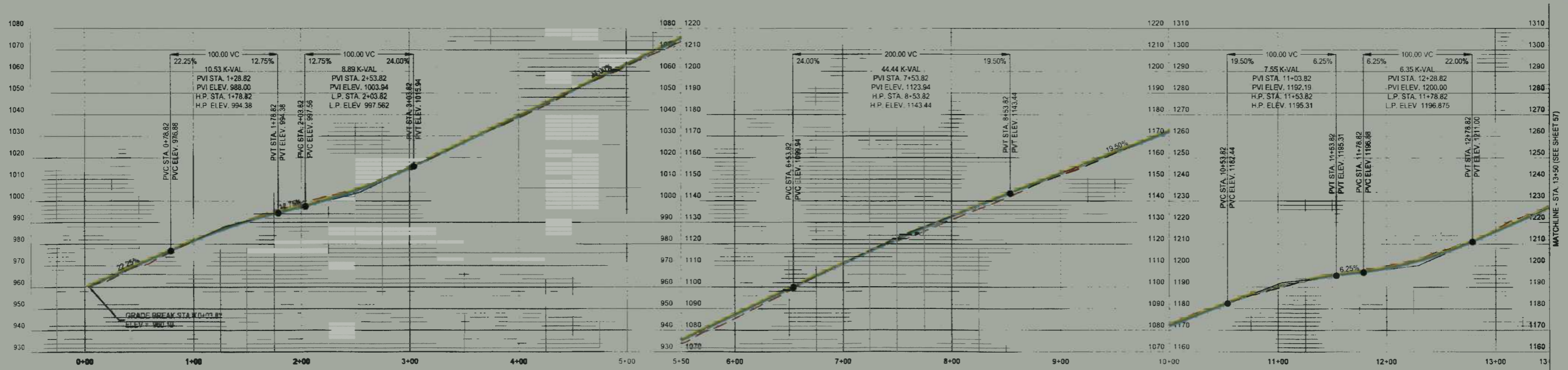
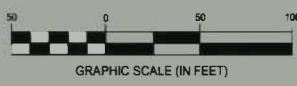
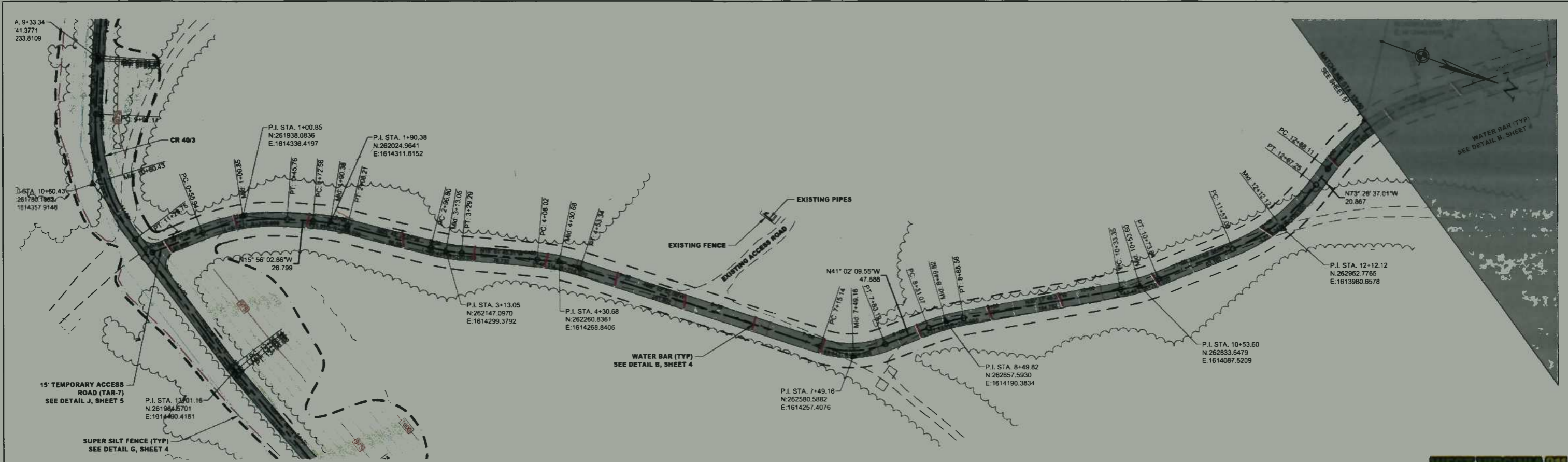
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SHERWOOD SOUTH PIPELINE  
 TAR-6 PLAN AND PROFILE  
 STATION(S): 0+00 TO 10+61

**One Gathering LLC**  
 ONE ENERGY DRIVE  
 JANE LEW, WV 26378

DATE:	08/29/2014
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	55 of 60

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TAR-7 (UPGRADED & NEW) PROFILE  
Scale: 1" = 50' Horiz.; 1" = 25' Vert.

**LEGEND**

- EXISTING PIPE CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- PROPOSED BENCH CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PIPE INSTALL BY OTHERS
- BURIED ELECTRIC
- OVERHEAD LINE
- WATER LINE
- FENCE
- PROPERTY LINE
- TAX DISTRICT LINE
- COUNTY LINE
- G. ROAD
- EDGE OF ROAD
- TEMP. ROAD
- SUPER SILT FENCE (SIF)
- SILT FENCE
- WATER BAR (WB)
- BRUSH PILE
- PROPOSED PERMANENT ACCESS ROADS
- PROPOSED TEMPORARY ACCESS ROADS
- REARWET WETLANDS
- PER WETLANDS
- KEEP OFF PROPERTY

IFC

SUMMARY OF MATERIALS		REFERENCE DRAWINGS		REVISIONS			
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
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SHERWOOD SOUTH PIPELINE

TAR-7 PLAN AND PROFILE

STATION(S): 0+00 TO 13+50

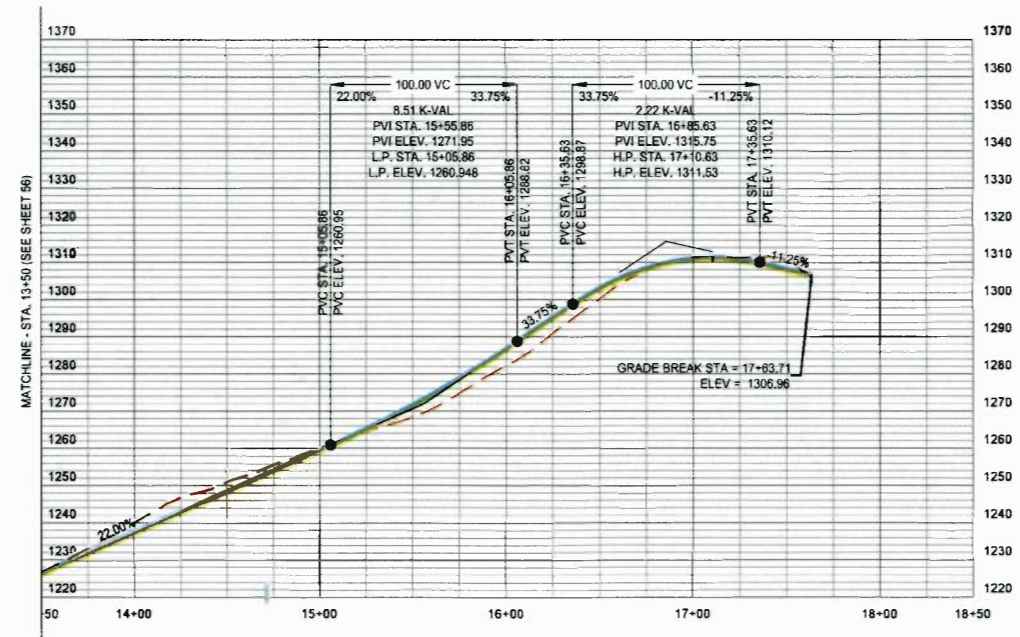
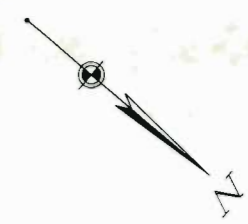
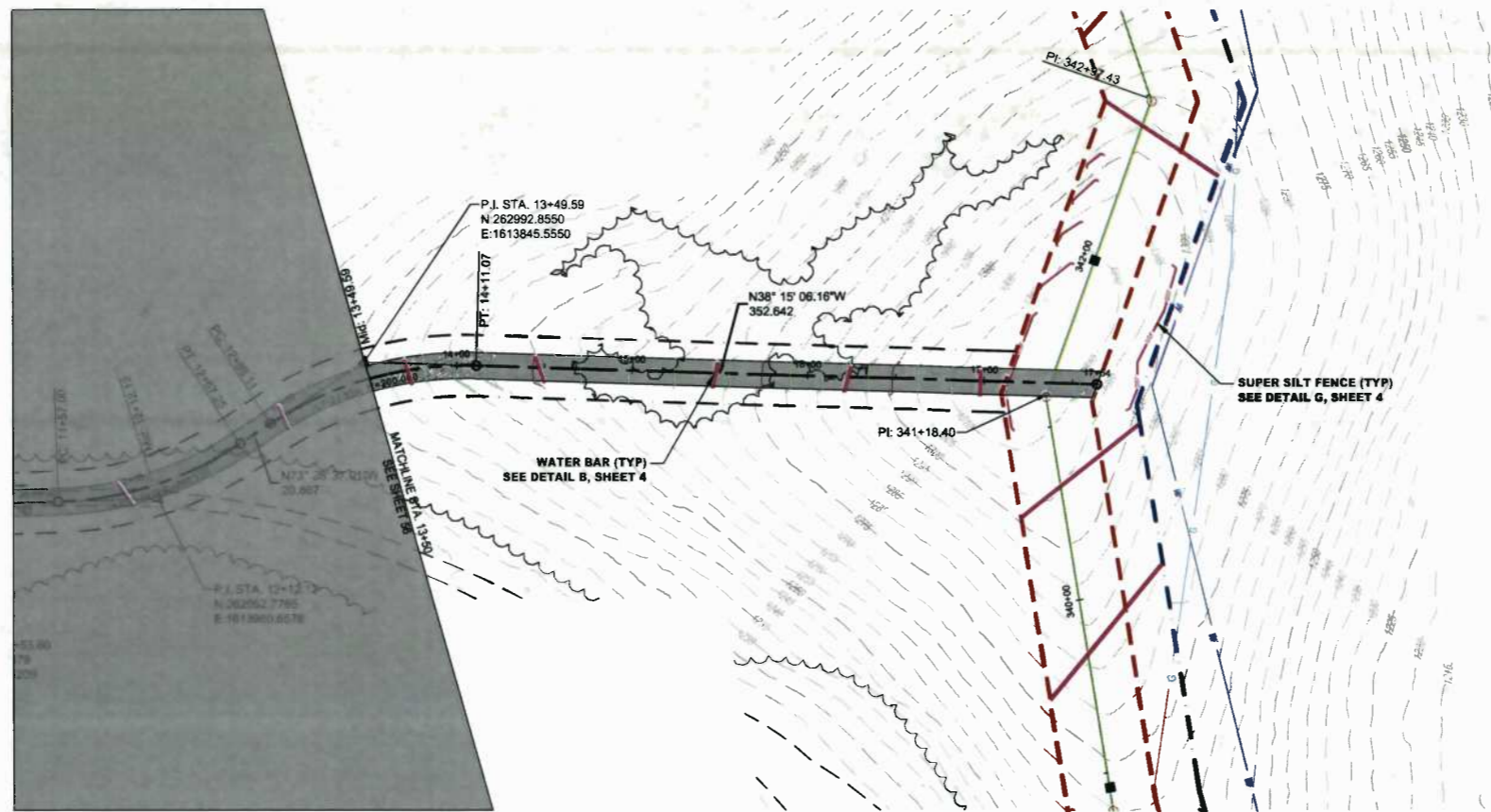
4one Gathering LLC

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE:	08/29/2014
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	

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08/29/2014  
DATE



TAR-7 (UPGRADED & NEW) PROFILE  
Scale: 1" = 50' Horiz., 1" = 25' Vert.

**LEGEND**

- EXISTING BENCH CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- PROPOSED BENCH CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PIPE INSTALL BY OPEN CUT
- PIPE INSTALL BY SHIELD
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- LOG
- SHIELD ELECTRIC
- OPENING LINE
- WATER LINE
- FENCE
- PROPERTY LINE
- TAX DISTRICT LINE
- COUNTY LINE
- CL ROAD
- EDGE OF ROAD
- TRAILING
- STRAINS
- SUPER SILT FENCE (TYP)
- SILT FENCE
- WATER BAR (TYP)
- TRENCH PLUS
- PROPOSED PERMANENT ACCESS ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- ROADWAY RIGHT-OF-WAY
- ROADWAY LEFT-OF-WAY
- WETLANDS
- KEEP OFF PROPERTY

**IFC**

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
					1	09/05/14	REVISED PER CONE COMMENTS

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**SHERWOOD SOUTH PIPELINE**

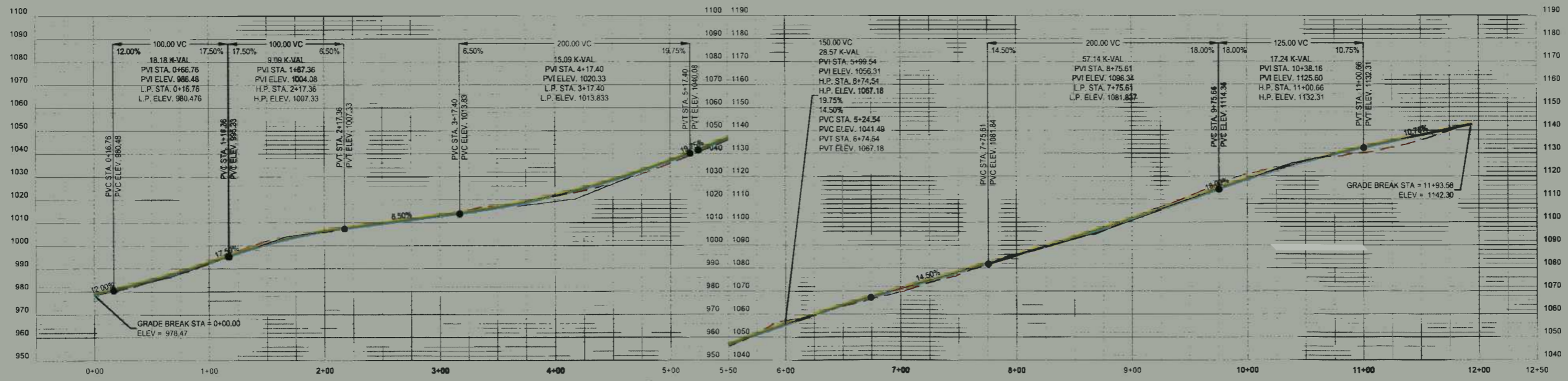
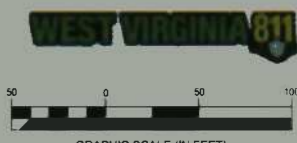
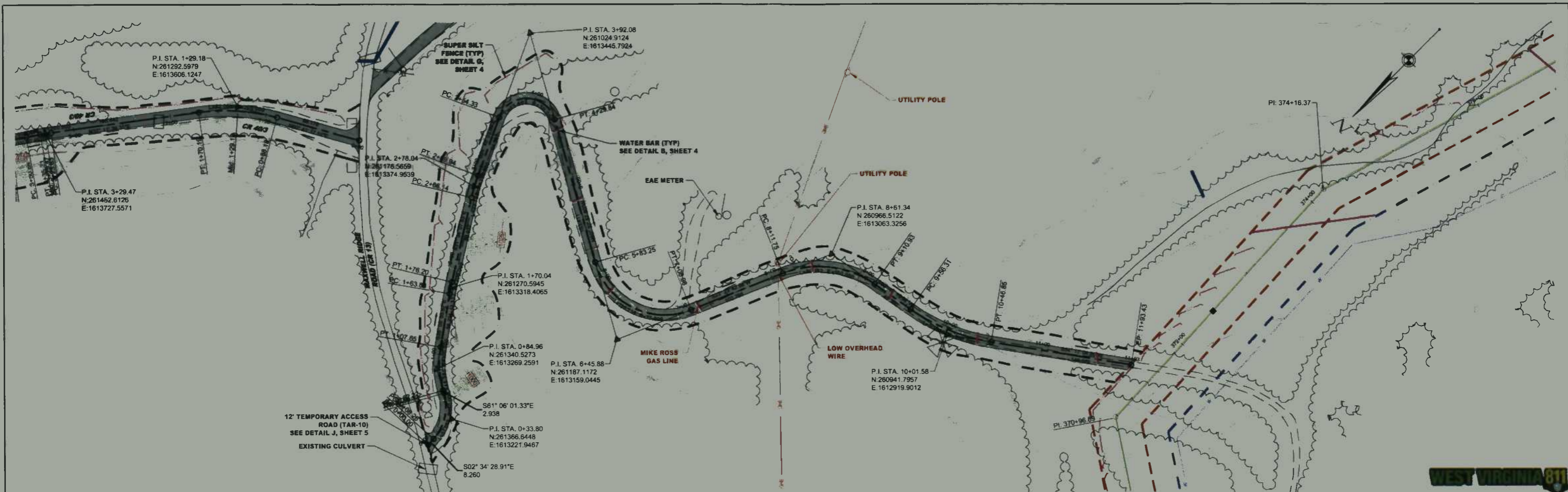
TAR-7 PLAN AND PROFILE

STATION(S): 13+50 TO 17+82

**One Gathering LLC**

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE:	08/29/2014
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	57 of 60



TAR-10 (UPGRADED) PROFILE  
Scale: 1" = 50' Horiz., 1" = 25' Vert.

**LEGEND**

- EXISTING MHO CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- PROPOSED MHO CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PIPE METALL BY OPEN CUT
- PIPE METALL BY HOSE
- TERRAIN LINE
- TEMPORARY EASEMENT
- ROAD
- BURIED ELECTRIC
- OVERHEAD WIRE
- WATER LINE
- STAKE
- PROPERTY LINE
- NO OBJECT LINE
- COUNTY LINE
- C. ROAD
- EDGE OF ROAD
- TRAIL LINE
- STAKE
- SUPPLY SIGNIFICANT USE
- BLT FINISH
- WATER BAR BARS
- TRUCK-PLUS
- PROPOSED PERMANENT ACCESS ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- PROPOSED WELD JOINT
- PERM EASEMENT
- REST OF PROPERTY

IFC  
08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
					1	09/05/14	REVISED PER CONE COMMENTS



SHERWOOD SOUTH PIPELINE  
TAR-10 PLAN AND PROFILE  
STATION(S): 0+00 TO 11+93

ONE Gathering LLC  
ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE: 08/29/2014  
JOB NO.: 90126  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.  
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SHERWOOD SOUTH TRENCH PLUG LOCATION CHART*		SHERWOOD SOUTH TRENCH PLUG LOCATION CHART*		SHERWOOD SOUTH TRENCH PLUG LOCATION CHART*		SHERWOOD SOUTH TRENCH PLUG LOCATION CHART*		SHERWOOD SOUTH TRENCH PLUG LOCATION CHART*		SHERWOOD SOUTH TRENCH PLUG LOCATION CHART*		SHERWOOD SOUTH TRENCH PLUG LOCATION CHART*	
PLUG #	STATION	PLUG #	STATION	PLUG #	STATION	PLUG #	STATION	PLUG #	STATION	PLUG #	STATION	PLUG #	STATION
1	1+00	34	91+00	67	204+48	100	270+59	133	318+00	166	402+56	199	490+16
2	2+00	35	96+00	68	205+00	101	273+00	134	320+03	167	403+64	200	492+16
3	3+00	36	98+00	69	206+00	102	275+00	135	328+26	168	404+67	201	493+16
4	4+00	37	101+00	70	208+00	103	277+00	136	330+46	169	405+67	202	494+16
5	5+00	38	117+00	71	210+00	104	278+00	137	338+92	170	414+40	203	495+16
6	6+00	39	119+00	72	212+00	105	279+00	138	342+00	171	419+69	204	496+16
7	7+00	40	120+00	73	214+00	106	280+00	139	344+00	172	424+76	205	497+16
8	8+00	41	121+00	74	218+00	107	285+00	140	347+00	173	429+86	206	498+16
9	9+00	42	122+00	75	219+00	108	288+00	141	350+24	174	433+18	207	500+39
10	10+00	43	123+00	76	220+00	109	290+00	142	353+22	175	438+05	208	500+87
11	11+00	44	124+00	77	221+00	110	292+00	143	356+29	176	443+93	209	502+16
12	11+46	45	125+45	78	224+08	111	294+00	144	358+28	177	446+93	210	503+16
13	11+66	46	130+32	79	224+28	112	296+00	145	360+62	178	451+94	211	504+16
14	12+00	47	134+78	80	225+00	113	297+00	146	360+86	179	454+16	212	505+16
15	13+00	48	138+43	81	227+00	114	297+57	147	362+16	180	455+16	213	507+16
16	14+00	49	141+66	82	227+84	115	297+83	148	364+17	181	457+17	214	509+16
17	15+00	50	148+41	83	234+04	116	299+00	149	367+21	182	460+16	215	512+16
18	16+00	51	156+63	84	239+00	117	300+00	150	367+40	183	461+25	216	517+16
19	17+00	52	163+00	85	242+00	118	301+00	151	368+36	184	461+71	217	520+16
20	18+00	53	166+00	86	245+00	119	302+00	152	368+53	185	462+90	218	521+16
21	19+00	54	173+00	87	247+00	120	303+00	153	372+47	186	463+36	219	522+16
22	21+00	55	175+46	88	248+37	121	304+00	154	377+53	187	464+16	220	524+16
23	23+00	56	184+00	89	248+54	122	305+00	155	380+68	188	465+16	221	525+52
24	28+00	57	186+00	90	249+00	123	306+00	156	380+89	189	466+16	222	525+89
25	31+00	58	188+00	91	251+00	124	307+00	157	382+29	190	467+16	223	526+40
26	44+00	59	191+00	92	253+00	125	308+00	158	382+46	191	468+16	224	528+16
27	56+00	60	194+00	93	255+45	126	309+00	159	383+43	192	470+16	225	530+16
28	57+00	61	199+00	94	258+57	127	311+23	160	386+53	193	471+16	226	532+16
29	59+00	62	200+00	95	262+71	128	311+53	161	389+53	194	472+16	227	534+16
30	66+00	63	201+00	96	268+00	129	312+00	162	397+82	195	477+22	228	536+16
31	67+00	64	202+00	97	269+00	130	313+00	163	399+76	196	482+16	229	541+94
32	68+00	65	202+78	98	270+00	131	316+00	164	399+96	197	483+16	230	544+25
33	90+80	66	203+28	99	270+38	132	317+00	165	402+31	198	485+16	231	544+67

\*TRENCH PLUG DESIGN BASED ON THE TABLE PROVIDED ON THE TRENCH PLUG DETAIL ON SHEET 5. SOME TRENCH PLUGS HAVE BEEN OVER-DESIGNED AT THE DISCRETION OF THE ENGINEER BASED ON EXISTING FIELD CONDITIONS.

**IFC**

08/29/2014  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
					1	08/29/14	REVISED PER CONE COMMENTS

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**SHERWOOD SOUTH PIPELINE**

**E&S TABLES**

STATION(S): N/A

**One Gathering LLC**

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE:	08/29/2014
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	59 of 60

EARTHWORK SUB-SUMMARY TAR-1		
DESCRIPTION	QUANTITY	UNITS
ACCESS DRIVE		
RAW CUT (EXIST. TO FINISHED GRADE)	840	CY
RAW FILL (EXIST. TO FINISHED GRADE)	615	CY
TOTAL DRIVE EARTHWORK	225 (SPOIL)	CY

EARTHWORK SUB-SUMMARY TAR-3C		
DESCRIPTION	QUANTITY	UNITS
ACCESS DRIVE		
RAW CUT (EXIST. TO FINISHED GRADE)	35	CY
RAW FILL (EXIST. TO FINISHED GRADE)	95	CY
TOTAL DRIVE EARTHWORK	60 (FILL)	CY

EARTHWORK SUB-SUMMARY CR 13/3		
DESCRIPTION	QUANTITY	UNITS
ACCESS DRIVE		
RAW CUT (EXIST. TO FINISHED GRADE)	1175	CY
RAW FILL (EXIST. TO FINISHED GRADE)	820	CY
TOTAL DRIVE EARTHWORK	255 (SPOIL)	CY

EROSION AND SEDIMENT CONTROL BMP PRACTICES		
BMP	UNITS	QUANTITY
SUPER SILT FENCE	FT	56,323
SILT FENCE	FT	2,055
STABILIZED CONSTRUCTION ENTRANCE	EA	8
TRENCH PLUG	EA	231
TEMPORARY WATERBARS	EA	327
TIMBER MATS (10 FT WIDTH, ASSUME 8 FT SECTION LENGTHS)	LF	400
STREAM CROSSING - PUMP AROUND (SEE DETAIL SHEET #4)	EA	20
ORANGE CONSTRUCTION FENCE	LF	366
18" HDPE CULVERT	LF	25
36" CMP CULVERT	LF	25
54" CMP CULVERT	LF	55
60" CMP CULVERT	LF	75
TOB-TOB (PIPELINE)	LF	186
TOB-TOB (ACCESS ROADS)	LF	20

EARTHWORK SUB-SUMMARY TAR-2		
DESCRIPTION	QUANTITY	UNITS
ACCESS DRIVE		
RAW CUT (EXIST. TO FINISHED GRADE)	800	CY
RAW FILL (EXIST. TO FINISHED GRADE)	985	CY
TOTAL DRIVE EARTHWORK	185 (FILL)	CY

EARTHWORK SUB-SUMMARY TAR-6		
DESCRIPTION	QUANTITY	UNITS
ACCESS DRIVE		
RAW CUT (EXIST. TO FINISHED GRADE)	185	CY
RAW FILL (EXIST. TO FINISHED GRADE)	330	CY
TOTAL DRIVE EARTHWORK	165 (FILL)	CY

EARTHWORK SUB-SUMMARY CR 40/3		
DESCRIPTION	QUANTITY	UNITS
ACCESS DRIVE		
RAW CUT (EXIST. TO FINISHED GRADE)	3575	CY
RAW FILL (EXIST. TO FINISHED GRADE)	3215	CY
TOTAL DRIVE EARTHWORK	360 (SPOIL)	CY

EARTHWORK SUB-SUMMARY TAR-3A		
DESCRIPTION	QUANTITY	UNITS
ACCESS DRIVE		
RAW CUT (EXIST. TO FINISHED GRADE)	425	CY
RAW FILL (EXIST. TO FINISHED GRADE)	510	CY
TOTAL DRIVE EARTHWORK	85 (FILL)	CY

EARTHWORK SUB-SUMMARY TAR-7		
DESCRIPTION	QUANTITY	UNITS
ACCESS DRIVE		
RAW CUT (EXIST. TO FINISHED GRADE)	115	CY
RAW FILL (EXIST. TO FINISHED GRADE)	35	CY
TOTAL DRIVE EARTHWORK	80 (SPOIL)	CY

**EARTHWORK NOTES:**  
 1. ESTABLISHING THE GRADES SHOWN ON THIS PLAN WILL REQUIRE THAT A NET OF 25 CY BE SPOILED. THE SPOIL WILL BE PLACED AT THE LAYDOWN AREA LOCATED BETWEEN STA. 428+00 THRU STA. 438+00 SHOWN WITHIN THE EXISTING DISTURBANCE LIMITS (SEE SHEETS 22 AND 23).  
 2. CONTRACTOR SHALL CONFIRM QUANTITIES.

EARTHWORK SUB-SUMMARY TAR-3B		
DESCRIPTION	QUANTITY	UNITS
ACCESS DRIVE		
RAW CUT (EXIST. TO FINISHED GRADE)	935	CY
RAW FILL (EXIST. TO FINISHED GRADE)	1290	CY
TOTAL DRIVE EARTHWORK	355 (FILL)	CY

EARTHWORK SUB-SUMMARY TAR-10		
DESCRIPTION	QUANTITY	UNITS
ACCESS DRIVE		
RAW CUT (EXIST. TO FINISHED GRADE)	275	CY
RAW FILL (EXIST. TO FINISHED GRADE)	320	CY
TOTAL DRIVE EARTHWORK	45 (FILL)	CY

STREAM CROSSINGS - PIPELINE				
STREAM ID	TOB	TOB	LENGTH (LF)	TIMBER MAT LENGTH (LF)
STREAM G101	11+56	11+58	2	16
STREAM 1	108+47	109+65	118	-
STREAM 6	203+12	203+14	2	40
STREAM G53	224+16	224+17	1	16
STREAM G52	248+43	249+00	7	16
STREAM G50	270+47	270+53	6	16
STREAM G48	297+69	297+72	3	32
STREAM G49	297+71	297+74	3	32
STREAM G44	311+33	311+37	4	16
STREAM G41	360+71	360+74	3	16
STREAM G40	367+29	367+32	3	16
STREAM G39	368+42	368+45	3	16
STREAM G36	380+77	380+80	3	16
STREAM G32	382+35	382+39	4	16
STREAM G31	399+84	399+87	3	16
STREAM G30	402+40	402+42	2	16
STREAM CC	461+40	461+43	3	16
STREAM ZZ	500+54	500+64	10	32
STREAM ZA	525+65	525+70	5	16
STREAM EH	544+46	544+47	1	16
			TOTAL:	344

ROAD CROSSINGS - PIPELINE				
ROAD	EOP	EOP	LENGTH (LF)	PAVED / UNPAVED
SR 18	106+88	107+11	23	PAVED (HDD)
CR 13/3	271+09	271+18	9	UNPAVED
MAXWELL RIDGE RD (CR 13)	359+27	359+37	10	UNPAVED
CAIN RUN RD (CR 40)	463+60	463+68	8	UNPAVED
S FORK HUGHES RIVER RD (CR 19/11)	499+21	499+34	13	UNPAVED
S FORK HUGHES RIVER RD (CR 19/11)	526+10	526+17	7	UNPAVED
			TOTAL:	70

STREAM CROSSINGS - ACCESS ROADS				
STREAM ID	TOB	TOB	LENGTH (LF)	CULVERTS
STREAM G1 (TAR-2)	1+98	2+00	2	1-18"
STREAM AJ9 (CR 40/3)	30+10	30+16	6	1-60"
STREAM AJ12 (CR 40/3)	32+48	32+50	2	1-36"
STREAM AJ9 (CR 40/3)	40+57	40+63	6	1-60"
STREAM G44 (CR 40/3)	43+57	43+61	4	1-54"
			TOTAL:	20

WETLAND CROSSINGS - PIPELINE				
WETLAND ID	EDGE	EDGE	LENGTH (LF)	TIMBER MAT LENGTH (LF)
WETLAND E	202+84	203+06	22	40
WETLAND G54	222+39	222+49	10	16
WETLAND CA	462+99	463+25	26	40
			TOTAL:	96

WETLAND CROSSINGS - ACCESS ROADS				
WETLAND ID	EDGE	EDGE	LENGTH (LF)	ACRES IMPACTED
WETLAND AJ13 (CR 40/3)	31+37	32+29	95	.018
WETLAND AJ11 (CR 40/3)	30+95	32+66	168	.039
			TOTAL:	.057

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**SHERWOOD SOUTH PIPELINE**

QUANTITIES

STATION(S): N/A

**One Gathering LLC**

ONE ENERGY DRIVE  
 JANE LEW, WV 26378

DATE: 08/29/2014  
 JOB NO.: 90126  
 DESIGN: BEM  
 DRAWN: BEM  
 CHECKED: BJM  
 SHEET NO.  
**60 of 60**



## Attachment D- Construction Cost Calculations

### Sherwood South

- Pipeline & Waterline Construction "Open Cut" -  $370 \text{ LF} * 150 = \$55,500$
- Pipeline & Waterline Construction "HDD" -  $325 \text{ LF} * \$1,000 = \$325,000$
- Temporary Access Roads -  $1,580 \text{ LF} * \$30 = \$47,400$
- Temporary Access Road Aprons -  $1 * \$2,500$
- Laydown Area -  $1 * \$5,000 = \$5,000$
- Timber Matting -  $80 \text{ LF} * \$10 = \$800$
- Silt Fence -  $205 \text{ LF} * \$2 = \$410$
- **Total Floodplain Construction Cost = \$436,110**

**Check Amount Required =  $\$1,000 + (\$5 * (336,110/1,000)) = \underline{\$2,680.55}$**