

Commercial/Industrial Floodplain Development Permit

Doddridge County, WV Floodplain Management

This permit has been issued to **CESO, Inc. CONSOL, & 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: #14-254 ~ CONSOL OX11 - OX13 Pipeline

Date Approved: 08/08/2014

Expires: N/A

Issued to: CESO, CONSOL, Cone Gathering, LLC

**POC: Natalie Hooton
412-221-2236**

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

Project Address: Southwest District

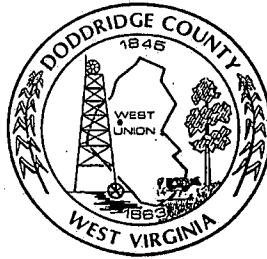
Lat/Long: 39.168227N/80.748344W to 39.168227N/80.760058W

Purpose of development: Pipeline construction. *Project does not impact floodplain.*

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

Date: 08/08/2014

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 4th day of August, 2014

CONSOL, CESO, & Cone Gathering, LLC

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

Southwest District 39.168227N / 80.748344W to 39.168227N / 80.760058W

Permit #14-254 CONSOL OX-11 to OX-13 Pipeline

(Note: This project is not within the floodplain)

The Application is on file with the Clerk of the County Court and may be inspected or copied during regular business hours. As this project is outside the FEMA identified floodplain of Doddridge County, Doddridge County Floodplain Management has no regulatory authority.

Any interested persons who desire to comment shall present the same in writing by **September 8, 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



NATALIE HOOTON, M.S.

Staff Biologist

(412) 221-2236

(412) 639-2231 Cell, (412) 221-2267 Fax

hooton@cesoinc.com

www.cesoinc.com

*800 Bursca Drive, Suite 804
Bridgeville, Pennsylvania 15017-1451*



CREATION TO COMPLETION

*Engineering • Architecture • Survey
Construction Mgt • Environmental*



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

FILED

August 1, 2014

2014 AUG -4 PM 1:02

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

BETH A. ROGERS
COUNTY CLERK
DODDRIDGE COUNTY, WV

**RE: CONSOL- OX11-OX13 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 OX11-OX13 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 OX13 natural gas well pad located at 39.168227 N Latitude, 80.748344 W Longitude (NAD83) which lies east of Porto Rico, West Virginia. The project starting location is bordered on the west by County Road 40 (Cain Run). The proposed pipeline traverses in a general west and northwesterly direction, prior to reaching its terminus at an interconnect with the EQT to OX11 pipeline located south of the County Route 40 and South Fork of Hughes River Road intersection at 39.173383 N Latitude, 80.760058 W Longitude (NAD83).

CESO, Inc. has identified a total of four (4) named and/or unnamed waterway crossings in Doddridge County as a result of this project. The Doddridge County Development Permit Application further describing project characteristics is presented in Attachment 1. According to the FEMA Flood Insurance Rate Maps, no waterways within the project vicinity exist within the 100-year floodplain. 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. However, 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.

Sincerely,

CESO, Inc.

Natalie Hooton
Staff Biologist

CREATION TO COMPLETION

Engineering • Architecture • Survey • Construction Mgt • Environmental



**OX11-OX13 PIPELINE
DODDRIDGE FLOODPLAIN PERMIT 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)
EH	Ephemeral	UNT South Fork Hughes River	Pipeline	Open Cut/ Timber Matted	39.17350023, -80.75930857	1	47
EF	Intermittent	UNT South Fork Hughes River	Pipeline	Open Cut/ Timber Matted	39.17207587, -80.75695506	5	119
EC	Ephemeral	UNT South Fork Hughes River	Pipeline	Open Cut/Timber Matted	39.16765218, -80.74984009	2	151
EB	Perennial	South Fork Hughes River	Pipeline	Open Cut/Timber Matted	39.16765015, -80.74977009	3	132

FILED

2014 AUG -4 PM 1:02

DODDRIDGE COUNTY
FLOODPLAIN DEVELOPMENT PERMIT APPLICATION

HEIDI A. ROGERS
COUNTY CLERK
DODDRIDGE COUNTY, WV

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  for CESO, Inc

DATE 08/01/2014

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.

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 OX13 natural gas well pad located at 39.168227 N Latitude, 80.748344 W Longitude (NAD83) which lies east of Porto Rico, West Virginia. The project starting location is bordered on the west by County Road 40 (Cain Run). The proposed pipeline traverses in a general west and northwesterly direction, prior to reaching its terminus at an interconnect with the EQT to OX11 pipeline located south of the County Route 40 and South Fork of Hughes River Road intersection at 39.173383 N Latitude, 80.760058 W Longitude (NAD83).

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 \$ 0.00

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 D.
ADDRESS: Please see Attachment D.

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 D.
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: 08/01/2014

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: _____

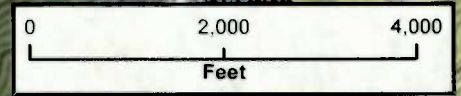
THE FOLLOWING MUST BE COMPLETED BY THE FLOODPLAIN ADMINISTRATOR/MANAGER OR HIS/HER AGENT.

COMPLIANCE IS HEREBY CERTIFIED WITH THE REQUIREMENT OF THE FLOODPLAIN ORDINANCE ADOPTED BY THE COUNTY COMMISSION OF DODDRIDGE COUNTY ON MAY 21, 2013.

SIGNED _____ DATE _____



Attachment B- Location Map



Legend
— Proposed Pipeline



OX11-OX13 Pipeline

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



Date: 07/31/11
By: N. Hooter

Copyright © 2013 National Geographic Society, i-cubed



Attachment A- Project Location- Surface Owner Information

TAX ID: 09-07-0010-0002-0000-6001

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.

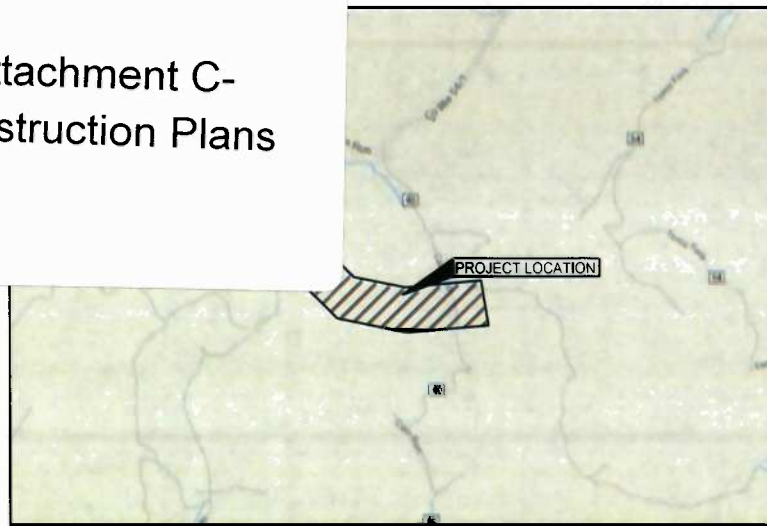
NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

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

Attachment C-
Construction Plans

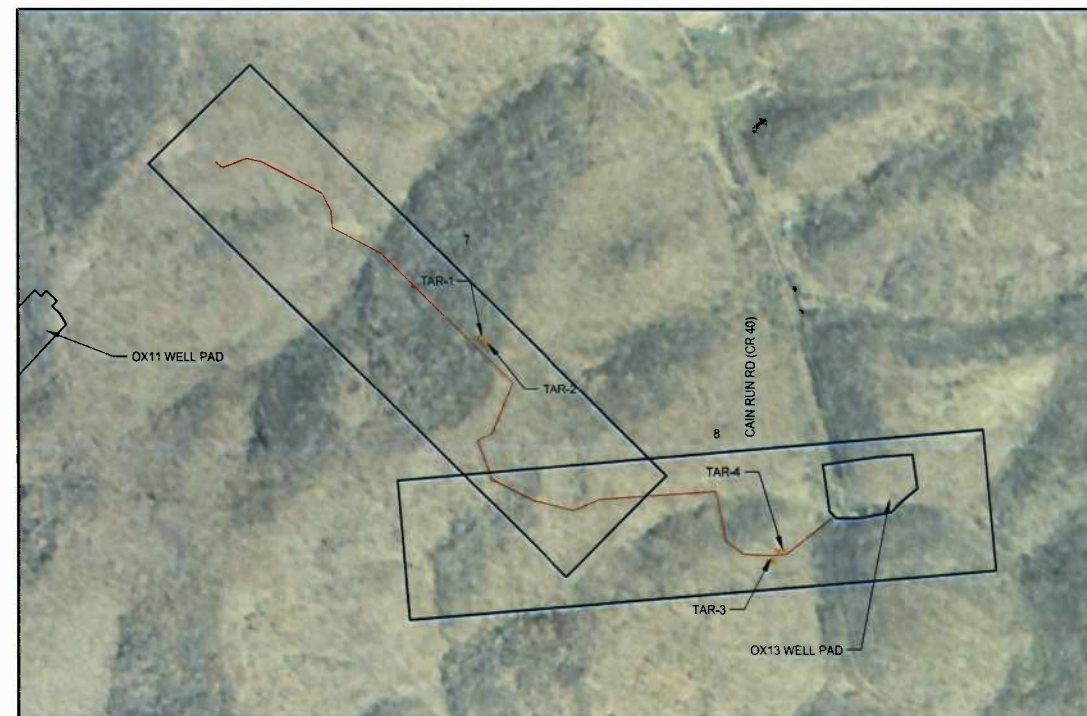
OX11-OX13 PIPELINE

DODDRIDGE COUNTY, WEST VIRGINIA

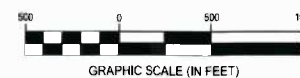


VICINITY MAP
NOT TO SCALE

OX11-OX13 PIPELINE:
 APPROX. START POINT: STA 0+00
 (NAD 83) LAT: 39.173383 N / LONG: 80.760058 W
 (UTM) (ZONE 17) NORTHING: 247770.10 / EASTING: 1611280.38
 APPROX. END POINT: STA 49+09
 (NAD 83) LAT: 39.168227 N / LONG: 80.748344 W
 (UTM) (ZONE 17) NORTHING: 245845.81 / EASTING: 1614575.05



PROJECT AREA MAP



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.

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.

CONSOL ENERGY ONE ENERGY DRIVE JANE LEW, WV 26378 ADAM WHITE 240-506-7299 ADAMWHITE@CONSOLENERGY.COM	DOMINION TRANSMISSION 445 W MAIN STREET CLARKSBURG, WV 26301 STEVEN D. GUM 304-782-5024 STEVEN.D.GUM@DOM.COM
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APPROVED BY CONSOL:

REPRESENTATIVE _____ DATE _____

DRAWING INDEX

DESCRIPTION	SHEET NUMBER
COVER SHEET	1
SWPPP NOTES	2-3
SWPPP DETAILS	4-6
PIPELINE PLAN	7-8
ROAD CROSSING DETAILS	9
E&S TABLES AND QUANTITIES	10

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.



08/01/14
DATE

SUMMARY OF MATERIALS		
MRKR #	QTY.	DESCRIPTION
1	5,093 LF	PIPELINE (SLOPE LENGTH)
2	19 EA	Elbow, 45° Segmentable Fitting
3	6 EA	PIPELINE WARNING SIGN

REFERENCE DRAWINGS

DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION



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 Engineering • Architecture • Survey • Construction Mgt • Environmental

OX11-OX13 PIPELINE

COVER SHEET

STATION(S): N/A



200 EVERGREENE DRIVE
WAYNESBURG, PA 15370

DATE:	08/01/14
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	1 of 10

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@CONSOLENERGY.COM

WV DEP PERMIT #: WVRXXXXXX

PROJECT DESCRIPTION: THIS PROJECT CONSISTS OF CONSTRUCTING 2-30" AND 1-16" NATURAL GAS PIPELINES AND 1-16" WATER LINE IN DODDRIDGE COUNTY, WEST VIRGINIA.
17.08 ACRES TOTAL PROJECT AREA
0 ACRES PROPOSED IMPERVIOUS AREA
17.08 ACRES DISTURBED
0 CY CUT/ 0 CY FILL (BALANCED)

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 CAIN RUN.

ADJACENT AREAS: ADJACENT AREAS THAT MAY BE AFFECTED BY SITE DISTURBANCE INCLUDE WETLAND EC, WETLAND 1, AND CAIN RUN RD (CR 40).

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 EH, WETLAND EG, STREAM EF, STREAM EC, STREAM EB, AND WETLAND EA.

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)
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, 15 TO 25 PERCENT SLOPES	GuD	0.43	-	Well drained	84	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	-

*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 LAID.

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 FILTER SOCKS, WATER BARS, TRENCH PLUGS, SILT FENCE, AND SUPER SILT FENCE. REFER TO SHEETS 7-8 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: NO ENGINEERING CALCULATIONS ARE REQUIRED FOR THIS PROJECT.

TEMPORARY SEEDING CHART

Common Name	Scientific Name	Planting Dates	PLS Lbs/Acre
Annual Ryegrass	Lolium multiflorum	2/16-5/15, 8/1-11/1	40
Field Bromegrass	Bromus ciliatus	3/1-6/15, 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	180
Japanese Millet	Echinochloa crusgalli	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 cunata	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 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, SEEDED, AND CURLEX BLANKETS BY AMERICAN EXCELSIOR 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.

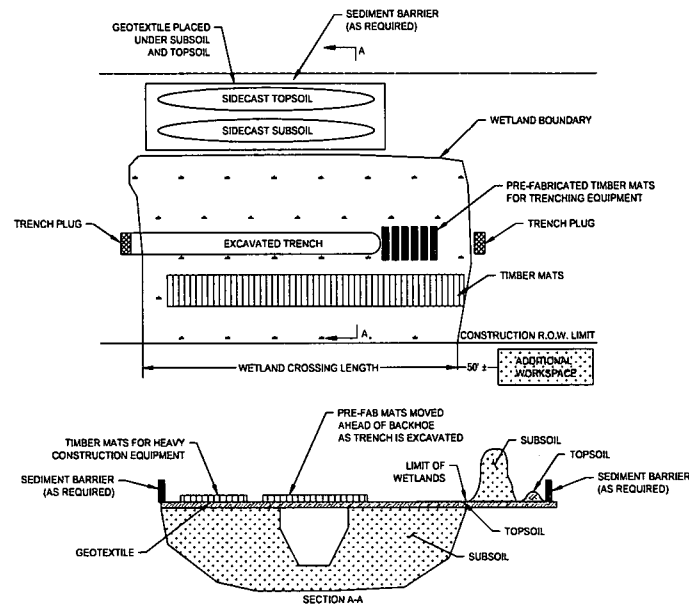
EROSION & SEDIMENT CONTROL MAINTENANCE NOTES

- 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.

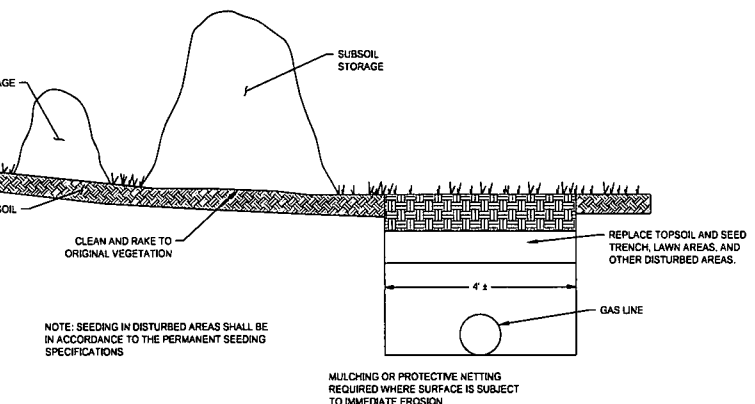
EROSION & SEDIMENT CONTROL MAINTENANCE NOTES

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.

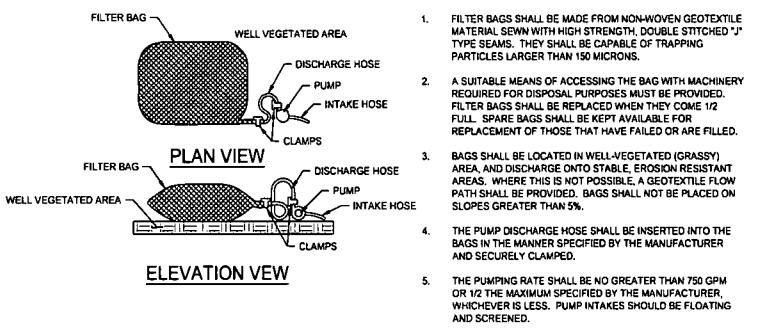
	SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		<p>CREATION TO COMPLETION www.cesoinc.com Engineering • Architecture • Survey • Construction Mgt • Environmental</p>	OX11-OX13 PIPELINE		DATE: 08/01/14
	MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE				DESCRIPTION
08/01/14											DESIGN: BEM
DATE											DRAWN: BEM
											CHECKED: BJM
											SHEET NO.
											3 of 10



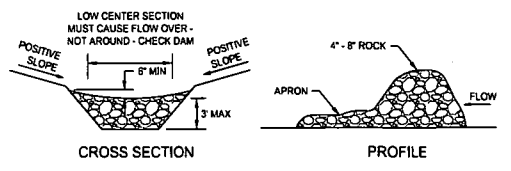
H TYPICAL PIPELINE WETLAND CROSSING
NOT TO SCALE



L DOUBLE DITCH FOR UTILITY TRENCHES
NOT TO SCALE

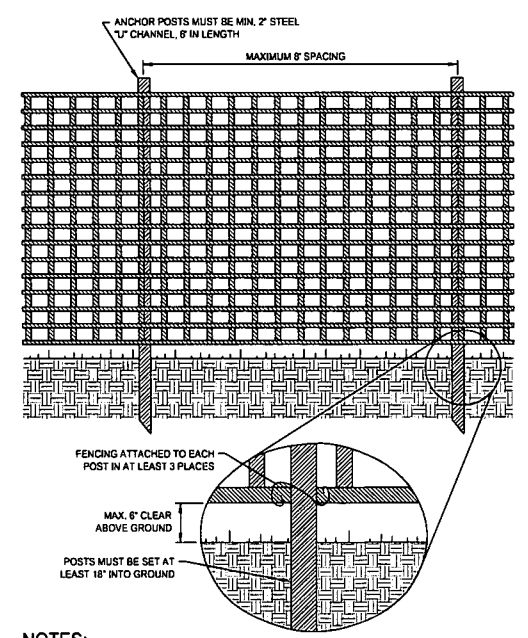


M SEDIMENT FILTER BAG FOR PUMPED WATER DETAIL
NOT TO SCALE



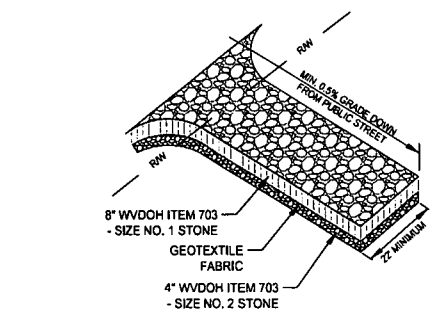
- NOTES:**
1. THE CHECK DAM SHALL BE CONSTRUCTED OF 4-8" DIAMETER STONE, PLACED SO THAT IT COMPLETELY COVERS THE WIDTH OF THE CHANNEL.
 2. MAXIMUM HEIGHT OF CHECK DAM SHALL NOT EXCEED 3.0 FEET.
 3. THE MIDPOINT OF THE ROCK CHECK DAM SHALL BE A MINIMUM OF 8" LOWER THAN THE SIDES IN ORDER TO DIRECT ACROSS 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

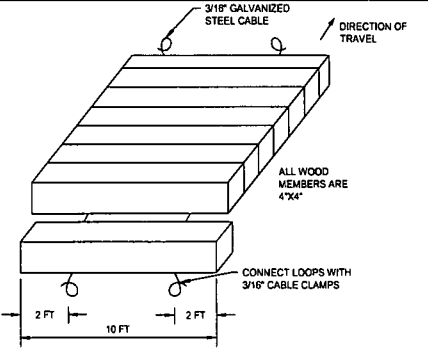


- NOTES:**
1. PROTECTION BARRIER SHALL BE 4" HIGH, CONSTRUCTED OF DURABLE AND HIGHLY VISIBLE MATERIAL (PLASTIC ORANGE CONSTRUCTION FENCE AND SNOW-FENCE MAY BE USED).
 2. PROTECTION BARRIERS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE WORK AT THE SITE.
 3. ADDITIONAL WARNING SIGNS SHOULD ALSO BE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

N CONSTRUCTION FENCE DETAIL
NOT TO SCALE



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
Permanent Grasses/Sedges:		
<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
Total		44.50
Temporary Cover:		
<i>Avena sativa</i>	Common Oat	360.00
<i>Lolium multiflorum</i>	Annual Rye	100.00
Total		460.00
OPTION B		
Welland 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 pennsylvanicum</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
Total		1168.00

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.

SECTION VIEW
NOT TO SCALE

ELEVATION
NOT TO SCALE

TRENCH SLOPE (%)	REQUIRED SPACING AND MATERIALS FOR TRENCH PLUGS
< 5	SPACING (FT) - PLUG MATERIAL
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.

NOTE: APPLY AT 32.8 PLS POUNDS PER ACRE.

O TRENCH PLUG DETAIL
NOT TO SCALE

IFC

08/01/14
DATE

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

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OX11-OX13 PIPELINE

SWPPP DETAILS

STATION(S): N/A

CONSOL ENERGY

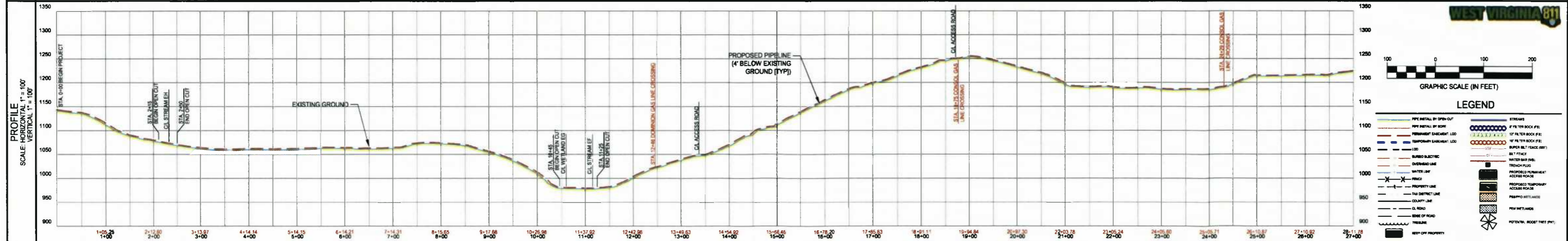
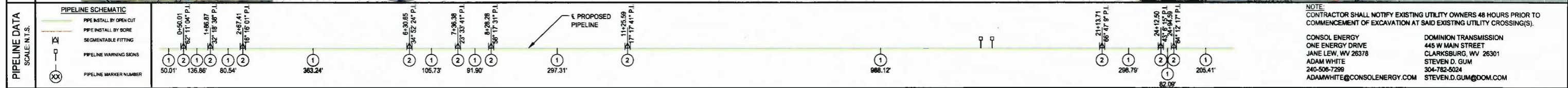
200 EVERGREENE DRIVE
WAYNESBURG, PA 15370

DATE:	08/01/14
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	5 of 10

SOUTH WEST DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

MORRIS I L IKE
09-07-0010-0002-0000-6001

TOWNSHIP, COUNTY, STATE															
OWNER/PARCEL ID															
ENVIRONMENTAL	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN	
STATIONS & TRAVERSE ANGLES	BEGIN PROJECT 0+00	0+50.01 62° 11' 04" LT	1+06.87 32° 18' 36" RT	2+67.41 16° 16' 01" RT	6+30.85 34° 52' 24" RT	7+36.38 23° 33' 41" RT	8+28.28 58° 17' 31" LT	11+25.59 17° 17' 41" RT					21+13.71 66° 47' 9" RT	24+12.50 45° 51' 57" RT 24+04.58 84° 12' 17" LT	MATCHLINE 27+00



IFC

08/01/14
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS	
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE
1	2812 LF	PIPELINE (SLOPE LENGTH)				
2	10 EA	ELBOW, 45° SEGMENTABLE FITTING				
3	2 EA	PIPELINE WARNING SIGN				

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OX11-OX13 PIPELINE

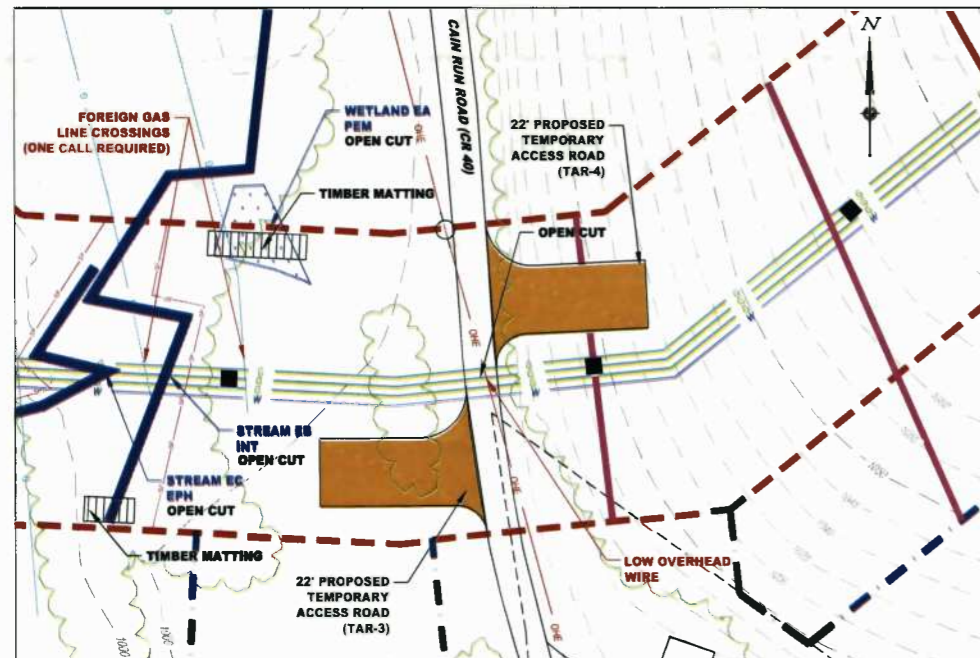
PIPELINE PLAN

STATION(S): 0+00 TO 27+00

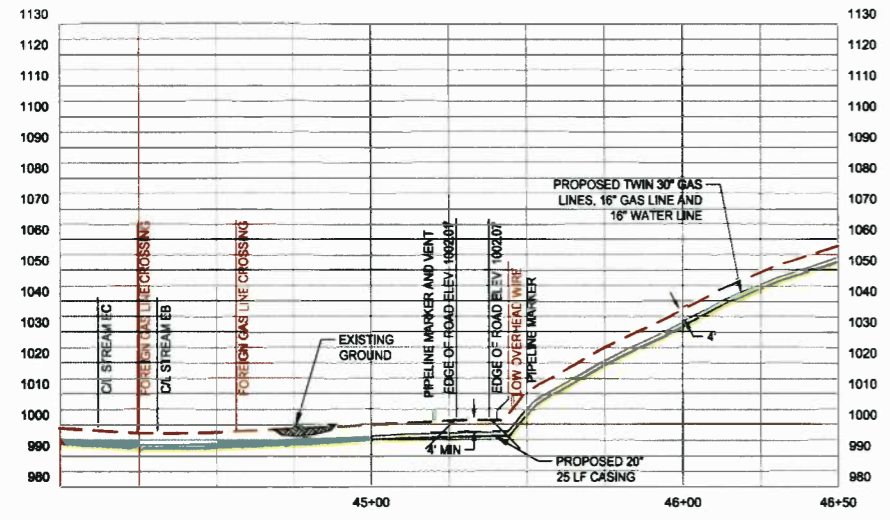
CONSOL ENERGY

200 EVERGREENE DRIVE
WAYNESBURG, PA 15370

DATE:	08/01/14
JOB NO.:	90126
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	7 of 10



PLAN VIEW
SCALE 1"=30'



LEGEND

- PIPE INSTALLED BY OPEN CUT
- PIPE INSTALLED BY TRENCH
- PERMANENT SUBGRADE
- TEMPORARY SUBGRADE
- BURIED ELECTRIC
- OVERHEAD LINE
- WATER LINE
- PROPERTY LINE
- EDGE OF ROAD
- STREAM
- THRESHOLD

GRAPHIC SCALE
(IN FEET)
1 inch = 30 ft

OPEN CUT PROFILE
SCALE 1"=30' (H), 1"=10' (V)

OPEN CUT DETAIL
CAN RUN RD (CR 40)
SCALE 1"=10' (H), 1"=10' (V)

NO.	REVISION	DATE	DESCRIPTION

OX11-OX13 PIPELINE
SOUTH WEST DISTRICT
DODDRIE COUNTY
WEST VIRGINIA

ceso
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PROJECT NO. 90126
SHEET NO. 1 of 1

IFC

08/01/14
DATE

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

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OX11-OX13 PIPELINE

ROAD CROSSING DETAILS

STATION(S): N/A

CONSOL ENERGY

200 EVERGREENE DRIVE
WAYNESBURG, PA 15370

DATE: 08/01/14
JOB NO.: 90126
DESIGN: BEM
DRAWN: BEM
CHECKED: BJM
SHEET NO.
9 of 10

OX11-OX13 WATER BAR SPACING*			
STATION BEGIN	STATION END	% SLOPE (AVERAGE)	WATER BAR SPACING (FT)
0+88	1+36	41	75
8+74	8+84	28	75
9+38	9+49	28	75
10+23	10+49	57	75
11+48	11+75	31	75
12+26	12+61	31	75
13+01	13+40	31	75
13+89	14+00	40	75
14+61	14+75	40	75
15+47	15+48	40	75
16+23	16+28	40	75
16+84	17+11	40	75
17+68	17+93	40	75
19+56	20+41	33	75
36+59	37+37	28	75
37+29	38+25	28	75
38+24	38+79	53	75
42+63	43+44	15	125
45+69	45+70	33	75
46+33	46+75	33	75
47+13	47+39	33	75
47+90	48+11	33	75

OX11-OX13 FILTER SOCK SIZING CHART**						
SOCK #	SIZE (in.)	SLOPE (%)	ACTUAL SLOPE LENGTH (ft.)	MAX SLOPE LENGTH (ft.)	SOCK LENGTH (ft.)	APPROXIMATE LOCATION
FS-1	12	25	100	100	33	17+50
FS-2	12	18	125	125	108	19+00
FS-3	12	20	120	125	46	30+00
FS-4	8	19	91	100	44	30+50
FS-5	8	13	39	140	34	31+00
FS-6	8	18	42	100	57	31+00
FS-7	8	20	86	100	44	31+50
FS-8	8	10	34	200	87	32+00
FS-9	18	24	106	110	186	32+50
FS-10	8	16	27	100	76	33+00
FS-11	18	25	110	110	41	33+50
FS-12	8	18	25	100	100	34+00

OX11-OX13 TRENCH PLUG LOCATION CHART***	
PLUG #	STATION
1	0+53
2	1+53
3	8+25
4	10+47
5	10+72
6	10+96
7	11+37
8	12+53
9	13+53
10	14+52
11	15+52
12	16+53
13	17+53
14	18+52
15	21+12
16	24+48
17	34+69
18	37+69
19	38+69
20	39+69
21	43+72
22	44+51
23	45+69
24	46+69
25	48+69

EROSION AND SEDIMENT CONTROL BMP PRACTICES		
BMP	UNITS	QUANTITY
8" COMPOST FILTER SOCK	FT	442
12" COMPOST FILTER SOCK	FT	185
18" COMPOST FILTER SOCK	FT	227
SUPER SILT FENCE	FT	1910
SILT FENCE	FT	615
STABILIZED CONSTRUCTION ENTRANCE	EA	4
TRENCH PLUG	EA	25
TEMPORARY WATERBARS	EA	22
TIMBER MATS (10 FT WIDTH, ASSUME 8 FT SECTION LENGTHS)	LF	144
STREAM CROSSING - FLUME PIPE CROSSING (SEE DETAIL SHEET #4)	EA	4
TOB TO TOB (PIPELINE CONST.)	LF	11

STREAM CROSSINGS - PIPELINE				
STREAM ID	TOB	TOB	LENGTH (LF)	TIMBER MAT LENGTH (LF)
STREAM EH	2+27	2+28	1	32
STREAM EF	11+12	11+17	5	16
STREAM EC	43+54	43+56	2	16
STREAM EB	44+15	44+18	3	16
TOTAL:			11	80

WETLAND CROSSINGS - PIPELINE				
WETLAND ID	EDGE	EDGE	LENGTH (LF)	TIMBER MAT LENGTH (LF)
WETLAND EG	10+54	10+81	27	32
WETLAND EA	44+44	44+72	28	32
TOTAL:			55	64

ROAD CROSSINGS - PIPELINE				
ROAD	EOP	EOP	LENGTH (LF)	PAVED / UNPAVED
CAIN RUN (CR 40)	45+28	45+38	10	UNPAVED
TOTAL:			10	

*WATER BAR SPACING IS BASED ON THE WEST VIRGINIA EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL TABLE 3.18.1: RIGHT-OF-WAY DIVERSION SPACING. SOME WATER BARS HAVE BEEN OVER-DESIGNED AT THE DISCRETION OF THE ENGINEER BASED ON EXISTING FIELD CONDITIONS.
 **FILTER SOCK DESIGN BASED ON THE TABLE FOUND IN THE FILTREXX LOW IMPACT DESIGN MANUAL, VERSION 8, SECTION 1: EROSION & SEDIMENT CONTROL, PAGE 324.
 ***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

08/01/14
DATE

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

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OX11-OX13 PIPELINE

E&S TABLES AND QUANTITIES

STATION(S): N/A

CONSOL ENERGY

200 EVERGREENE DRIVE
WAYNESBURG, PA 15370

DATE: 08/01/14
JOB NO.: 90126
DESIGN: BEM
DRAWN: BEM
CHECKED: BJM
SHEET NO.
10 of 10



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

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: 09-07-0015-0003-0001-0000

NAME OF SURFACE OWNER/OWNERS: Jerry L. and Sharon Leggett

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

ADDRESS OF SURFACE OWNER/OWNERS: Rt. 1 Box 59A, New Milton, WV 26411

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
Application
Permit # 14-254

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

successive weeks beginning with the issue
of ... *August 19th* ... 2014 and
ending with the issue of

... *August 26th* ... 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 ... *28th* ... DAY

OF ... *August* ... 2014

NOTARY PUBLIC

Laura Adams

THE HERALD RECORD
Legal Advertisement

LEGAL ADVERTISEMENT
Doddridge County
Floodplain Permit Application
Please take notice that on the 4th day of August, 2014
CONSOL. CESO & Co. Gathering, LLC filed an
application for a Floodplain Permit to develop land
located at or about Southwest District
39-168227N/80-748344W to 39-168227N/80-760058W
Permit #14-254 CONSOL. OX-11 to OX-13 Pipeline
(Note: This project is not within the floodplain). The
Application is on file with the Clerk of the County Court
and may be inspected or copied during regular business
hours. As this project is outside the FEMA identified
floodplain of Doddridge County, Doddridge County
Floodplain Management has no regulatory authority. Any
interested persons who desire to comment shall present
the same in writing by September 8, 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

8-19-2xb

