

November 13, 2015

Antero Resources  
535 White Oaks Blvd.  
Bridgport, WV 26330

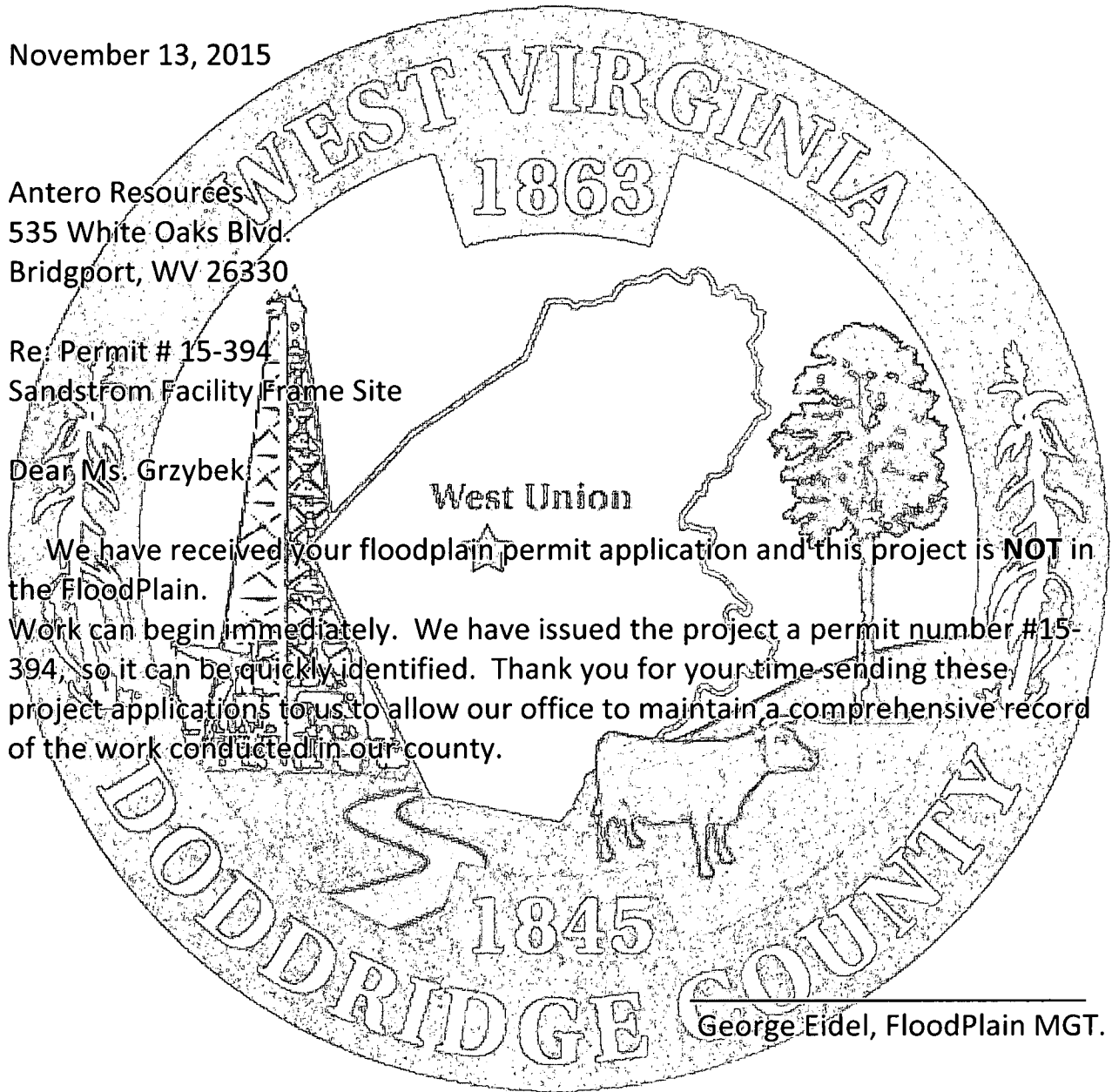
Re: Permit # 15-394  
Sandstrom Facility Frame Site

Dear Ms. Grzybek:

We have received your floodplain permit application and this project is **NOT** in the Flood Plain.

Work can begin immediately. We have issued the project a permit number #15-394, so it can be quickly identified. Thank you for your time sending these project applications to us to allow our office to maintain a comprehensive record of the work conducted in our county.

George Eidel, Flood Plain MGT.





Antero Resources  
535 White Oaks Blvd.  
Bridgeport, WV 26330  
Office 304.842.4100  
Fax 304.842.4102

October 13, 2015

Doddridge County Commission  
Attn: George Eidel, Doddridge County Floodplain Manager  
118 East Court Street, Room 102  
West Union, WV 26456

Mr. Eidel:

Antero Resources Corporation (Antero) would like to submit a Doddridge County Floodplain permit application for our Sandstrom Facility Frame Site. Our project is located in Doddridge County, Central District where the site entrance will be begin at coordinates 39.267006 N, 80.890035 W where the project site will be on the west side of Old County Route 36 (Gum Run Road). Per the FIRM Map #54017C0100C, this location is not in the floodplain.

Attached you will find the following:

- Doddridge County Floodplain Permit Application
- Surface Owner Information
- Design Plans
- FIRM Map
- WV Flood Tool Map

If you have any questions please feel free to contact me at (304) 842-4008.

Thank you in advance for your consideration.

Sincerely,

A handwritten signature in black ink, appearing to read "Rachel Grzybek".

Rachel Grzybek  
Environmental Specialist I  
Floodplain Engineer  
Antero Resources Corporation

Enclosures

AMERICAN  
300  
10/13/15  
10:51 AM

## 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 \_\_\_\_\_

DATE 10/13/15

### SECTION 2: PROPOSE 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: \_\_\_\_\_

ADDRESS: 1615 Wynkoop Street, Denver, CO 80202

TELEPHONE NUMBER: (303) 357-7310

**BUILDER'S NAME:** Antero Resources Corporation  
**ADDRESS:** 1615 Wynkoop Strett, Denver, CO 80202  
**TELEPHONE NUMBER:** (303)-357-7310

**ENGINEER'S NAME:** RETTEW Associates, Inc.  
**ADDRESS:** One Robinson Plaza, Suite 200, Pittsburgh, PA 15205  
**TELEPHONE NUMBER:** (412) 446-1728

**PROJECT LOCATION:**

**NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT)** Please see Surface Owner Table  
**ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT)** Please see Surface Owner Table  
**DISTRICT:** \_\_\_\_\_  
**DATE/FROM WHOM PROPERTY PURCHASED:** \_\_\_\_\_  
**LAND BOOK DESCRIPTION:** Please see Surface Owner Table  
**DEED BOOK REFERENCE:** Please see Surface Owner Table  
**TAX MAP REFERENCE:** Please see Surface Owner Table  
**EXISTING BUILDINGS/USES OF PROPERTY:** None  
**NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY** Please see Surface Owner Table  
**ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY** \_\_\_\_\_

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

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

**A. STRUCTURAL DEVELOPMENT**

**ACTIVITY**

**STRUCTURAL TYPE**

- |                                     |                         |                          |                                  |
|-------------------------------------|-------------------------|--------------------------|----------------------------------|
| <input checked="" 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:**

- |                          |      |                          |        |                          |          |                          |            |
|--------------------------|------|--------------------------|--------|--------------------------|----------|--------------------------|------------|
| <input type="checkbox"/> | Fill | <input type="checkbox"/> | Mining | <input type="checkbox"/> | Drilling | <input type="checkbox"/> | Pipelining |
|--------------------------|------|--------------------------|--------|--------------------------|----------|--------------------------|------------|
- Grading
- Excavation (except for STRUCTURAL DEVELOPMENT checked above)
- Watercourse Altercation (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.**
- 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.**

**ACTUAL TOTAL CONSTRUCTION COSTS OF THE COMPLETE DEVELOPMENT IRRESPECTIVE OF WHETHER ALL OR ANY PART OF THE SUBJECT PROPOSED CONSTRUCTION PROJECT IS WITHIN THE FLOODPLAIN \$ N/A**

**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 attached landowner  
**ADDRESS:** information

**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:** Please see attached landowner  
**ADDRESS:** information

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

**NAME:** \_\_\_\_\_  
**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): \_\_\_\_\_

SIGNATURE:  DATE: 10/13/15

After completing SECTION 2, APPLICANT should submit form to Floodplain Administrator/Manager 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 (MSL)

Unavailable

The proposed development is located in a floodway.  
 BBFM Panel No. \_\_\_\_\_ Dated \_\_\_\_\_

See section 4 for additional instructions.

SIGNED \_\_\_\_\_

DATE \_\_\_\_\_

**SECTION 4: ADDITIONAL INFORMATION REQUIRED (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, lot dimensions 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 proffing 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 50 lots or 5 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 (MSL).  
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 floodplain 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:

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**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 complete an appealing process below.

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 (MSL)
- 2 Actual (As Built) elevation of floodproofing is \_\_\_\_\_ FT. NGVD (MSL)

**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**

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**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:** \_\_\_\_\_

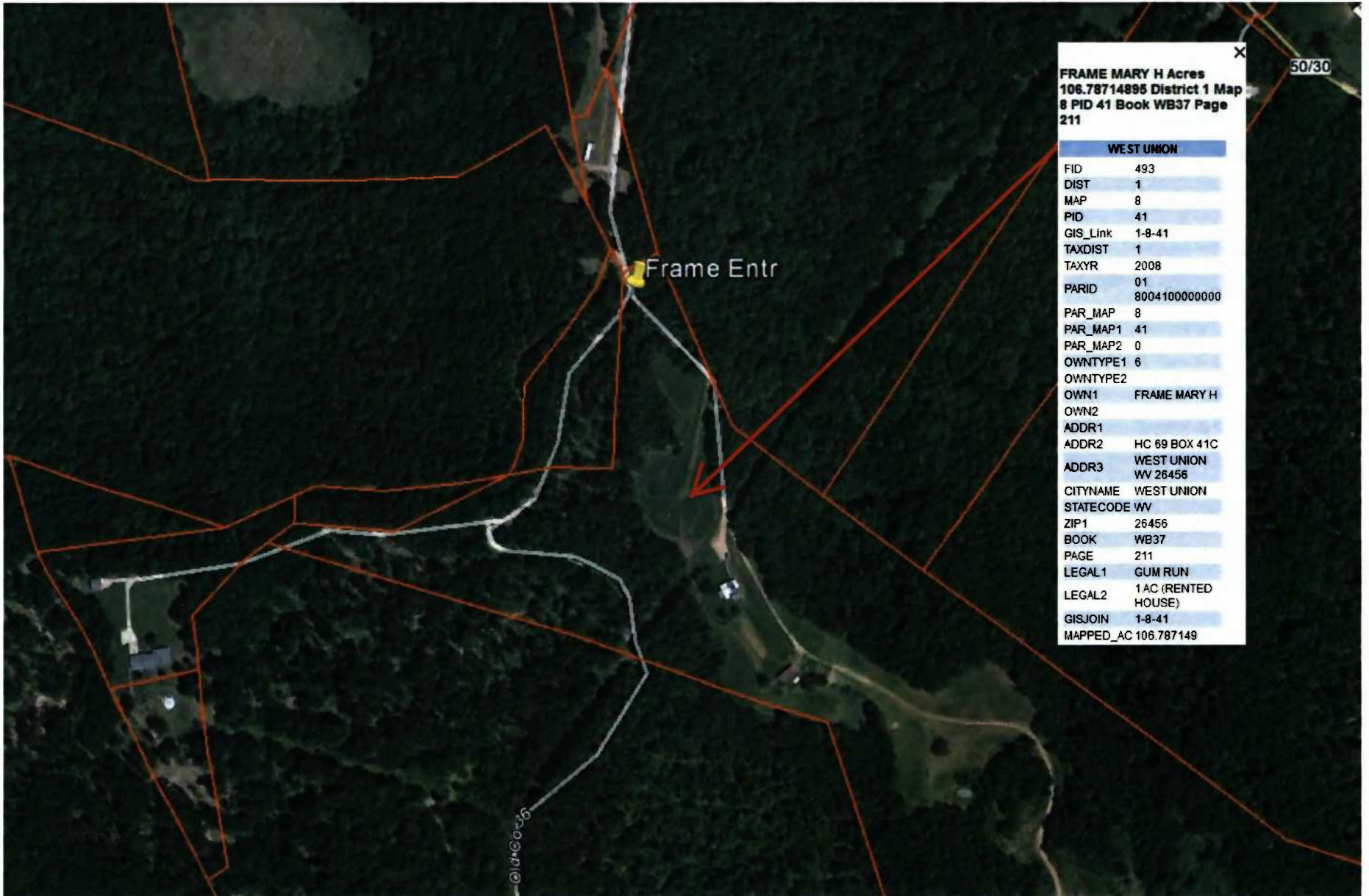
**OWNER'S ADDRESS:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

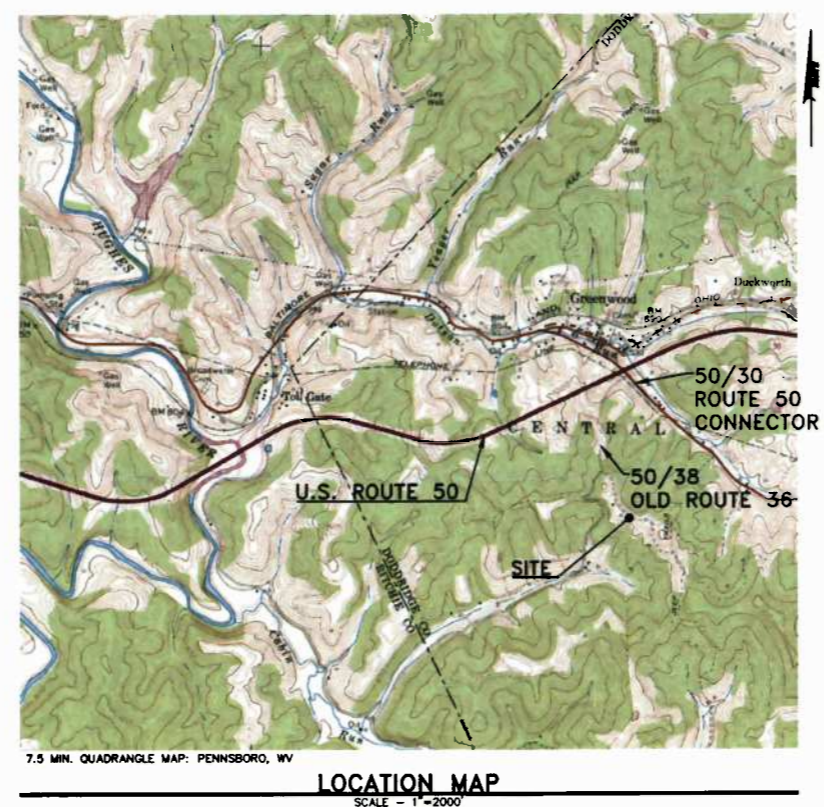
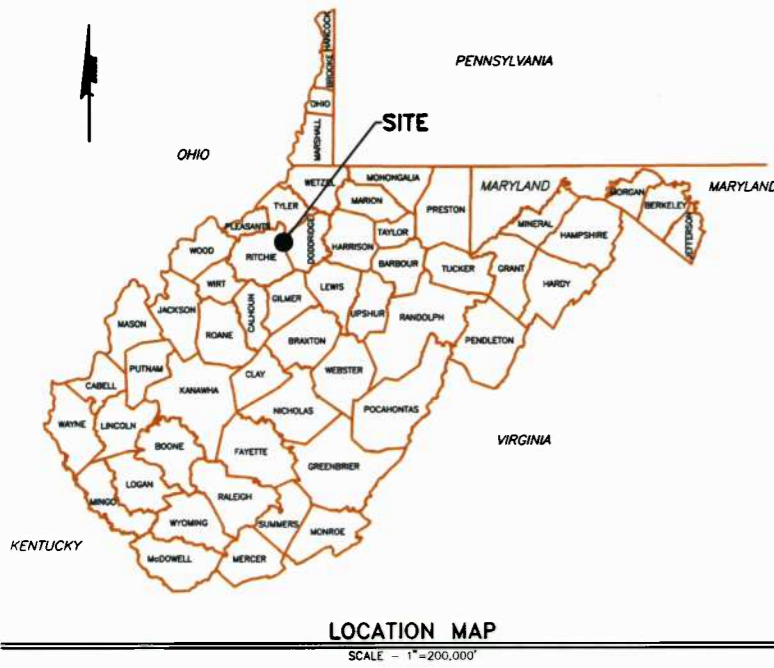
**COMPLIANCE IS HEREBY CERTIFIED WITH THE REQUIREMENT OF THE  
FLOODPLAIN ORDINANCE ADOPTED BY THE COUNTY COMMISSION OF  
DODDRIDGE COUNTY ON MAY 21, 2013.**

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

Sandstrom Facility Frame Site:  
Surface Owner Information



# CONSTRUCTION DRAWINGS FOR SANDSTROM FACILITY/FRAME SITE CENTRAL TAX DISTRICT, DODDRIDGE COUNTY, WV



**WEST VIRGINIA 811**  
**CALL BEFORE YOU DIG!** Dial 811 or 800.245.4848  
Miss Utility of West Virginia

AT LEAST 48 HOURS, BUT NOT MORE THAN 10 WORKING DAYS (EXCLUDING WEEKENDS AND HOLIDAYS), PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES. ALL CONTRACTORS INVOLVED IN THESE ACTIVITIES SHALL CONTACT MISS UTILITY OF WEST VIRGINIA AT 811 OR 1-800-245-4848.

**SOILS CLASSIFICATION**

G&E	GLPIN-PEABODY COMPLEX, 25 TO 35 PERCENT SLOPES
G&E	GLPIN-PEABODY COMPLEX, 35 TO 70 PERCENT SLOPES
G&G	GLPIN-UPSHUR SILT LOAMS, 15 TO 25 PERCENT SLOPES
U&	UDORTMENTS, SMOOTHED

**LIST OF DRAWINGS**

1 OF 22	COVER SHEET
2 OF 22	EXISTING CONDITIONS PLAN
3 OF 22	OVERALL LAYOUT PLAN
4 OF 22	OVERALL GRADING/E&S PLAN
5 OF 22	GRADING/E&S PLAN
6 OF 22	GRADING/E&S PLAN
7 OF 22	GRADING ANALYSIS PLAN
8 OF 22	GRADING ANALYSIS PLAN
9 OF 22	PROFILE AND SECTION LOCATION PLAN
10 OF 22	PAD PROFILE
11 OF 22	NOTES AND DETAILS
12 OF 22	NOTES AND DETAILS
13 OF 22	NOTES AND DETAILS
14 OF 22	CROSS SECTIONS
15 OF 22	CROSS SECTIONS
16 OF 22	CROSS SECTIONS
17 OF 22	CROSS SECTIONS
18 OF 22	CROSS SECTIONS
19 OF 22	NOTES AND DETAILS
20 OF 22	DETAILS
21 OF 22	DETAILS
22 OF 22	DETAILS

**GENERAL NOTES**

1. THE TOPOGRAPHIC SURVEY UTILIZED FOR THIS BASE MAPPING WAS PERFORMED BY RETTEW, FEBRUARY 2015.
2. THE HORIZONTAL DATUM IS WEST VIRGINIA STATE PLANE, NORTH AMERICAN DATUM 1983 (NAD 83), NORTH ZONE.
3. THE VERTICAL DATUM IS WEST VIRGINIA STATE PLAN, NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88).
4. THE UTILITIES SHOWN ON THIS PLAN ARE FOR REFERENCE PURPOSES ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXACT LOCATION PRIOR TO ANY EXCAVATION BY NOTIFYING MISS UTILITY OF WEST VIRGINIA AT 1-800-245-4848.
5. A WETLANDS PRESENCE/ABSENCE SURVEY WAS PERFORMED BY GAI IN AUGUST 2015.
6. THE CUT & FILL SUMMARY CALCULATIONS PRESENTED ON THIS PLAN ARE FOR PERMITTING AND INFORMATIONAL PURPOSES ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING GRADES AND TO VERIFY EARTHWORK VOLUMES, METHODS AND PROCEDURES. ANY ISSUES ARE TO BE BROUGHT TO THE ENGINEER'S AND OWNER'S ATTENTION PRIOR TO COMMENCEMENT OF WORK.
7. ALL EXISTING UTILITIES HAVE BEEN SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION.

**DIRECTIONS TO THE SITE**

FROM CHARLESTON: MERGE ONTO I-64 E VIA THE RAMP ON THE LEFT TOWARD I-77 / I-79 / BECKLEY. (1.1 MI TOTAL) MERGE ONTO I-77 N VIA EXIT 59 ON THE LEFT TOWARD I-79 / PARKERSBURG. (3.0 MI TOTAL) KEEP LEFT TO TAKE I-77 N TOWARD PARKERSBURG. (76.3 MI TOTAL) TAKE THE US-50 EXIT, EXIT 175, TOWARD DOWNTOWN. (78.6 MI TOTAL) TURN RIGHT ONTO US-50 E. (113.0 MI TOTAL) TURN RIGHT ONTO COUNTY HWY-50 / 30 / SUNNYSIDE RD. IF YOU REACH COUNTY HWY-50/3 YOU'VE GONE ABOUT 2.6 MILES TOO FAR. (113.0 MI TOTAL) TAKE THE 1ST RIGHT ONTO GUM RUN RD / COUNTY HWY-50 / 38. CONTINUE TO FOLLOW COUNTY HWY-50 / 38. IF YOU REACH ROCKET DR YOU'VE GONE ABOUT 0.1 MILES TOO FAR. (113.2 MI TOTAL)  
LATITUDE: 39.269603 LONGITUDE: -80.892221.

**LOCAL ANTERO OFFICE**

535 WHITE OAKS BLVD.  
BRIDGEPORT, WV 26330  
PHONE (304) 842-4100

LOCAL CONTACTS:  
ELI WAGONER-ENVIRONMENTAL ENGINEER  
PHONE (304) 842-4068  
CELL (304) 478-9770

JOHN KAWCAK-OPERATIONS SUPERINTENDENT  
CELL (817) 368-1553

SHAWN BENNETT-CONSTRUCTION SUPERVISOR  
PHONE (304) 842-4341  
CELL (304) 641-0071

ROBERT WRKS-DESIGN MANAGER  
PHONE (304) 842-4401  
CELL (304) 627-7405



FOR RETTEW ASSOCIATES BY:

MANAGER:	ANDREW LEVINE, PE
DESIGN BY:	CHKD BY: MDD
DRAWN BY:	CHKD BY: MDD
SURV. CHIEF:	RELSBOOK NO. N/A

CLIENT  
**ANTERO RESOURCES CORPORATION**  
1615 WINKLOP STREET  
DENVER, COLORADO 80202

**RETTEW**  
Associates, Inc.  
One Robinson Plaza, Suite 200, Pittsburgh, PA 15205  
Phone (412) 446-1726 • Fax (412) 446-1733  
Email: rettew@rettew.com  
Website: www.rettew.com

Engineers • Planners • Surveyors • Landscape Architects  
Environmental Scientists

COVER SHEET  
CONSTRUCTION DRAWINGS  
FOR  
**SANDSTROM FACILITY  
FRAME SITE**  
CENTRAL TAX DISTRICT DODDRIDGE COUNTY, WV

DATE:	AUGUST 26, 2015
SHEET NO.	1 OF 22
DWG. NO.	095452132



**LEGEND**

- EXISTING PROPERTY LINE
- EXISTING PAVEMENT
- EXISTING STONE
- EXISTING SOILS BOUNDARY
- SOIL TYPE DESIGNATION
- EXISTING TREELINE
- EXISTING TREE
- EXISTING MAJOR CONTOUR LINE
- EXISTING MINOR CONTOUR LINE
- EXISTING UTILITY POLE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING GAS LINE
- EXISTING SANITARY SEWER LINE
- EXISTING FENCE LINE
- EXISTING STREAM-EPHEMERAL
- EXISTING STREAM-PERMANENT
- EXISTING WETLAND
- BORING LOCATION
- COUNTY LINE
- DISTRICT LINE
- PROPOSED MAJOR CONTOUR LINE
- PROPOSED MINOR CONTOUR LINE
- PROPOSED TREELINE
- PROPOSED GRAVEL
- PROPOSED STORM PIPE
- PERMIT BOUNDARY SANDSTROM
- ADDITIONAL LIMITS OF DISTURBANCE FRAME
- SUPER SILT FENCE
- 18" FILTER SOCK
- 24" FILTER SOCK
- 32" FILTER SOCK
- PROPOSED SPOT ELEVATION
- PROPOSED CONSTRUCTION FENCE

SCALE

1"=200'

0 100' 200' 400' 600'

NO.	DATE	REVISION

FOR RETIEW ASSOCIATES BY:

MANAGER:	ANDREW LEVINE, PE
DESIGN BY:	KME
DRAWN BY:	KME
SURV. CHIEF:	M/A

CLIENT

**ANTERO RESOURCES CORPORATION**  
 1615 WYNKOOP STREET  
 DENVER, COLORADO 80202

RETIIEW Associates, Inc.  
 One Robinson Plaza, Suite 200, Pittsburgh, PA 15205  
 Phone (412) 448-1728 • Fax (412) 448-1733  
 Email: retiew@retiew.com  
 Website: www.retiew.com

Engineers • Planners • Surveyors • Landscape Architects  
 Environmental Consultants

EXISTING CONDITIONS PLAN  
 CONSTRUCTION DRAWINGS

FOR

**SANDSTROM FACILITY**  
**FRAME SITE**

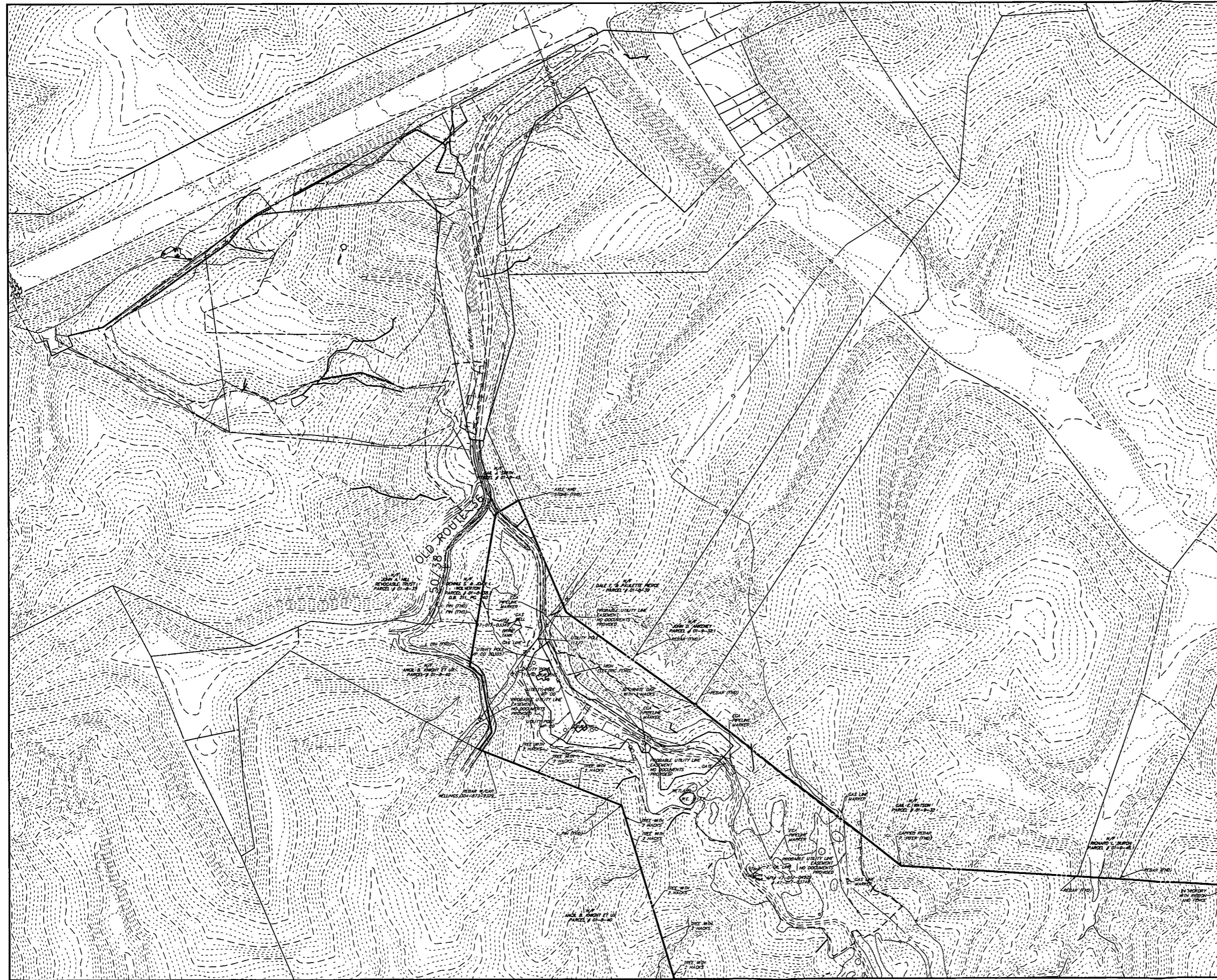
CENTRAL TAX DISTRICT DODDRIDGE COUNTY, WY

DATE: AUGUST 26, 2015

SHEET NO. 2 OF 22

DWG. NO. 095452132

NOT FOR CONSTRUCTION / NOT FOR BIDDING



**LEGEND**

EXISTING PROPERTY LINE	---
EXISTING FENCE LINE	---
EXISTING STONE	---
EXISTING SOILS BOUNDARY	---
SOIL TYPE DESIGNATION	---
EXISTING TREE	○
EXISTING MAJOR CONTOUR LINE	---
EXISTING MINOR CONTOUR LINE	---
EXISTING UTILITY POLE	○
EXISTING OVERHEAD ELECTRIC LINE	---
EXISTING UNDERGROUND ELECTRIC LINE	---
EXISTING GAS LINE	---
EXISTING SANITARY SEWER LINE	---
EXISTING FENCE LINE	---
EXISTING STREAM-EPHEMERAL	---
EXISTING STREAM-PERMANENT	---
EXISTING WETLAND	---
BORING LOCATION	○
COUNTY LINE	---
DISTRICT LINE	---
PROPOSED MAJOR CONTOUR LINE	---
PROPOSED MINOR CONTOUR LINE	---
PROPOSED TREELINE	---
PROPOSED GRAVEL	---
PROPOSED STORM PIPE	---
PERMIT BOUNDARY SANDSTROM	---
ADDITIONAL LIMITS OF DISTURBANCE FRAME	---
SUPER SILT FENCE	SSSF
18" FILTER SOCK	18FS
24" FILTER SOCK	24FS
32" FILTER SOCK	32FS
PROPOSED SPOT ELEVATION	+ 500.00
PROPOSED CONSTRUCTION FENCE	---

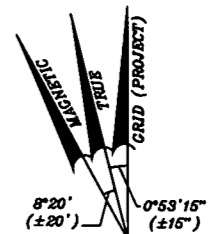
SCALE: 1" = 200'

FOR REVIEW ASSOCIATES BY:

MANAGER: ANDREW LEVINE, PE

DESIGN BY: KME	CHKD BY: MDD
DRAWN BY: KME	CHKD BY: MDD
SURV. CHIEF: J/A	FILEBOOK NO. /J/A

NO. DATE REVISION



CLIENT: ANTERO RESOURCES CORPORATION, 1615 WINDOGG STREET, DENVER, COLORADO 80202

**RETIEW**

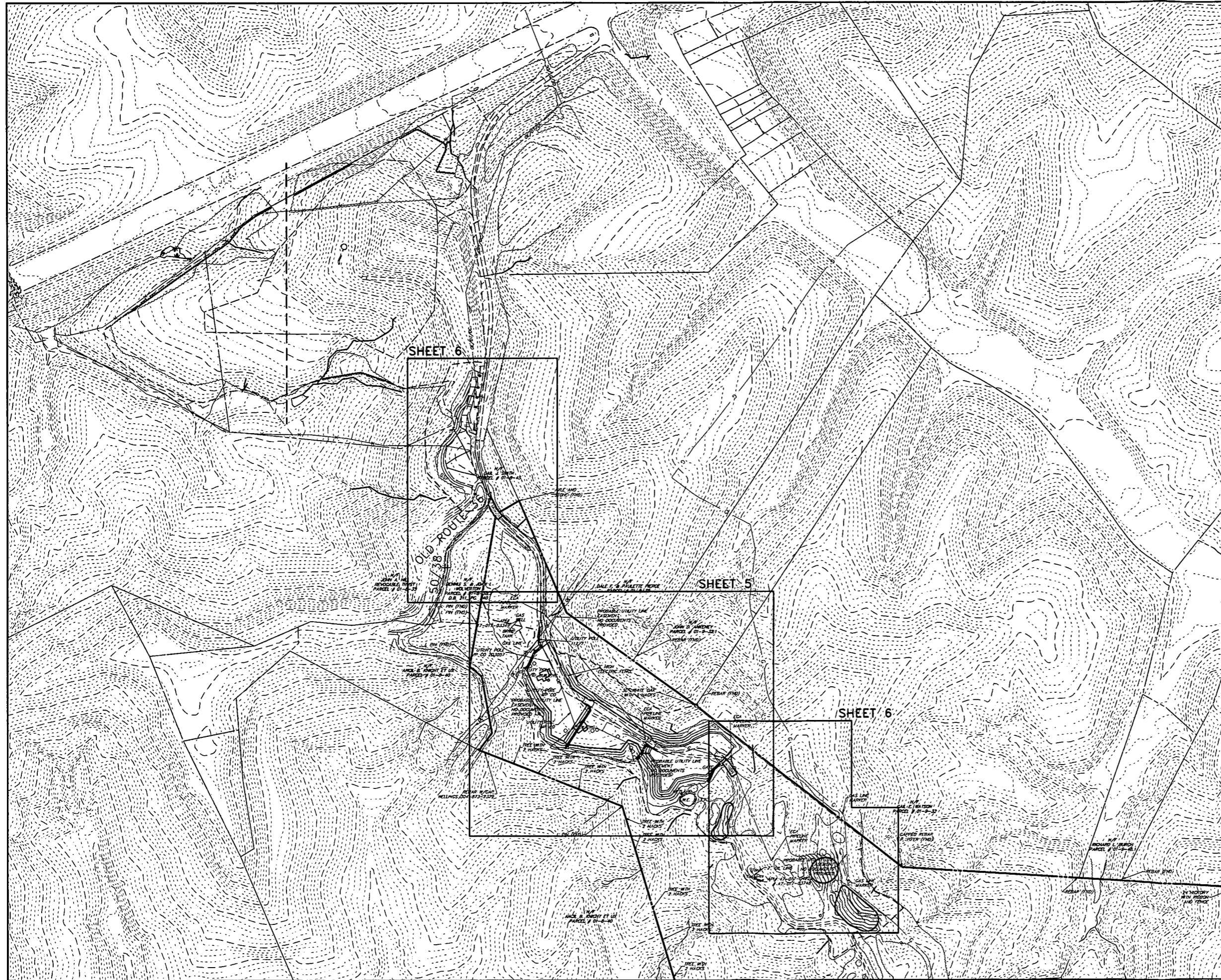
Retiew Associates, Inc. Suite 200, Pittsburgh, PA 15205  
 One Liberty Plaza, Philadelphia, PA 19106  
 Phone: (412) 446-1728 • Fax: (412) 446-1733  
 Email: retiew@retiew.com  
 Website: www.retiew.com

Engineers • Planners • Surveyors • Landscape Architects  
 Environmental Consultants

OVERALL LAYOUT PLAN  
 CONSTRUCTION DRAWINGS  
 FOR  
**SANDSTROM FACILITY  
 FRAME SITE**  
 CENTRAL TAX DISTRICT DODDRIEGE COUNTY, WY

DATE:	AUGUST 26, 2015
SHEET NO.:	3 OF 22
DWC NO.:	095452132

NOT FOR CONSTRUCTION/NOT FOR BIDDING



**LEGEND**

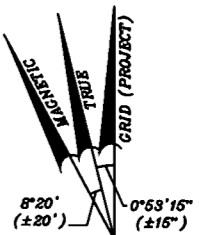
- EXISTING PROPERTY LINE
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- EXISTING MINOR CONTOUR LINE
- EXISTING UTILITY POLE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING GAS LINE
- EXISTING SANITARY SEWER LINE
- EXISTING FENCE LINE
- EXISTING STREAM-EPHEMERAL
- EXISTING STREAM-PERMANENT
- EXISTING WETLAND
- BORING LOCATION
- COUNTY LINE
- DISTRICT LINE
- PROPOSED MAJOR CONTOUR LINE
- PROPOSED MINOR CONTOUR LINE
- PROPOSED TREELINE
- PROPOSED GRAVEL
- PROPOSED STORM PIPE
- PERMIT BOUNDARY SANDSTROM
- ADDITIONAL LIMITS OF DISTURBANCE FRAME
- SUPER SILT FENCE
- 18" FILTER SOCK
- 24" FILTER SOCK
- 32" FILTER SOCK
- PROPOSED SPOT ELEVATION
- PROPOSED CONSTRUCTION FENCE

SCALE	1"=200'	400'	600'
NO.	DATE	REVISION	



FOR RETEW ASSOCIATES BY:	MANAGER: ANDREW LEVINE, PE
DESIGN BY: KME	CHECK BY: MDD
DRAWN BY: KME	CHECK BY: MDD
SURV. CHIEF: N/A	RECORD NO: N/A

- NOTES:**
- CONTRACTOR SHALL PROTECT TREES TO REMAIN.
  - SILT FENCE MAYBE SUBSTITUTED FOR FILTER SOCK UP TO & INCLUDING 24" & SUPER SILT FENCE MAYBE SUBSTITUTED FOR FILTER SOCK LARGER THAN 24".



CLIENT  
**ANTERO RESOURCES CORPORATION**  
 1615 WYNKOOP STREET  
 DENVER, COLORADO 80202



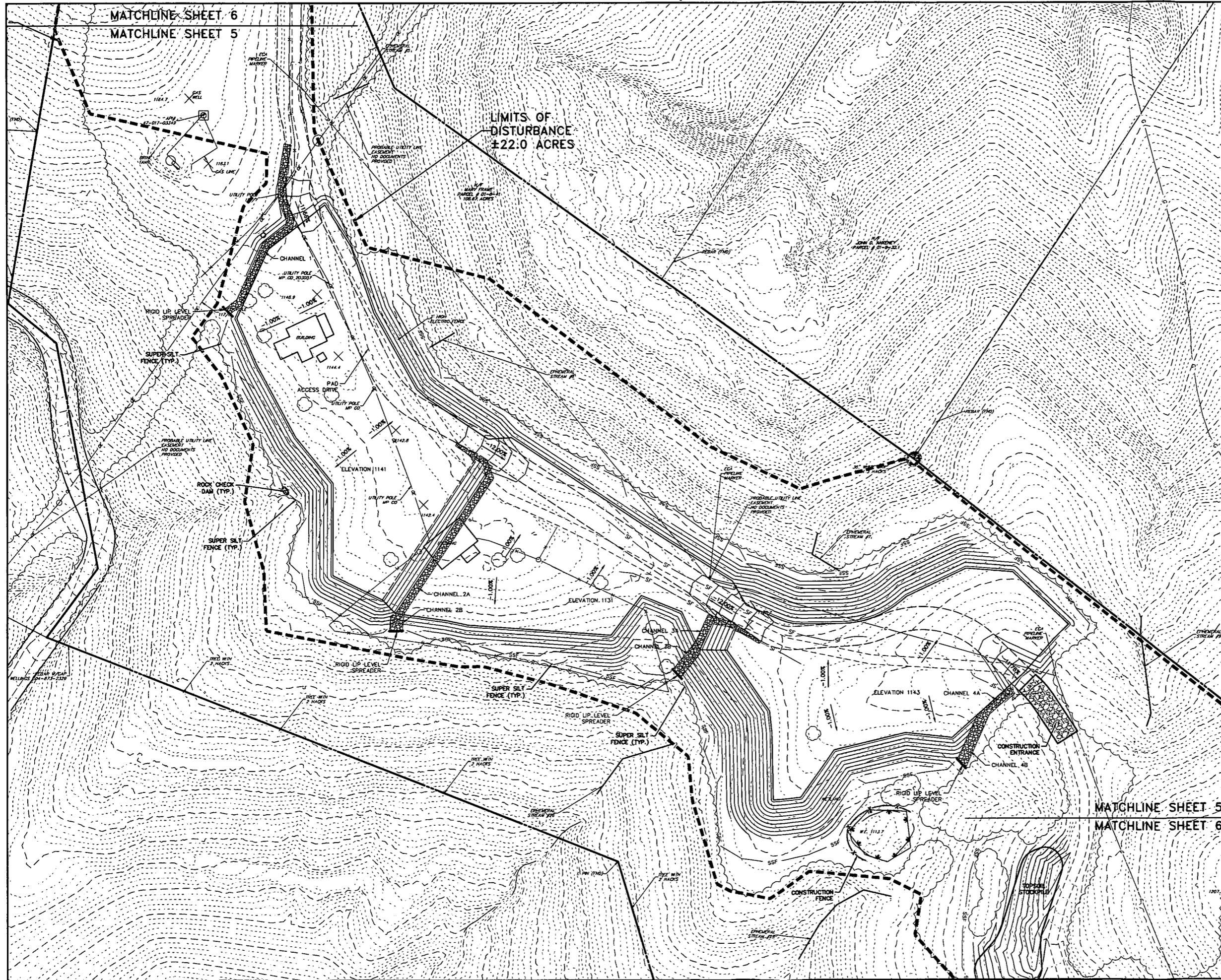
**RETEW**  
 RETEW Associates, Inc.  
 One Robinson Plaza, Suite 200, Pittsburgh, PA 15205  
 Phone (412) 448-1728 • Fax (412) 446-1733  
 Email: retew@retew.com  
 Website: www.retw.com

OVERALL GRADING/E&S PLAN  
 CONSTRUCTION DRAWINGS  
 FOR  
**SANDSTROM FACILITY**  
 FRAME SITE  
 CENTRAL TAX DISTRICT DODDRIEGE COUNTY, WY

DATE:	AUGUST 26, 2015
SHEET NO.:	4 OF 22
DWG. NO.:	095452132

NOT FOR CONSTRUCTION/NOT FOR BIDDING





### LEGEND

EXISTING PROPERTY LINE	---
EXISTING PAVEMENT	----
EXISTING STONE	-----
EXISTING SOILS BOUNDARY	-.-.-.-
SOIL TYPE DESIGNATION	---
EXISTING TREELINE	~~~~~
EXISTING TREE	⊙
EXISTING MAJOR CONTOUR LINE	-----
EXISTING MINOR CONTOUR LINE	-.-.-.-
EXISTING UTILITY POLE	⊙
EXISTING OVERHEAD ELECTRIC LINE	⊖
EXISTING UNDERGROUND ELECTRIC LINE	⊖
EXISTING GAS LINE	⊖
EXISTING SANITARY SEWER LINE	⊖
EXISTING FENCE LINE	-x-x-
EXISTING STREAM-EPHEMERAL	~~~~~
EXISTING STREAM-PERMANENT	~~~~~
EXISTING WETLAND	⊖
BORING LOCATION	⊙
COUNTY LINE	---
DISTRICT LINE	---
PROPOSED MAJOR CONTOUR LINE	-----
PROPOSED MINOR CONTOUR LINE	-.-.-.-
PROPOSED TREELINE	~~~~~
PROPOSED GRAVEL	-----
PROPOSED STORM PIPE	-----
PERMIT BOUNDARY SANDSTROM	-----
ADDITIONAL LIMITS OF DISTURBANCE FRAME	-----
SUPER SILT FENCE	SSF
18" FILTER SOCK	-18FS
24" FILTER SOCK	-24FS
32" FILTER SOCK	-32FS
PROPOSED SPOT ELEVATION	+ 500.00
PROPOSED CONSTRUCTION FENCE	-x-x-

SCALE: 1"=50'

FOR RETIEW ASSOCIATES BY:

MANAGER: ANDREW LEVINE, PE  
 DESIGN BY: KME  
 DRAWN BY: KME  
 SURV. CHIEF: W/A

CHD BY: MDD  
 CHD BY: MDD  
 SURV. CHIEF: W/A

19074

REVISION

NO. DATE

NOTES:

- CONTRACTOR SHALL PROTECT TREES TO REMAIN.
- SILT FENCE MAYBE SUBSTITUTED FOR FILTER SOCK UP TO & INCLUDING 24" & SUPER SILT FENCE MAYBE SUBSTITUTED FOR FILTER SOCK LARGER THAN 24".

CLIENT

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 1615 WYNKOOP STREET  
 DENVER, COLORADO 80202

Antero Resources

**RETIEW**

RETIEW Associates, Inc.  
 One Robinson Place, Suite 200, Pittsburgh, PA 15205  
 Phone: (412) 446-1728 • Fax: (412) 446-1733  
 Email: retiew@retiew.com  
 Website: www.retiew.com

Engineers • Planners • Surveyors • Landscape Architects  
 Environmental Consultants

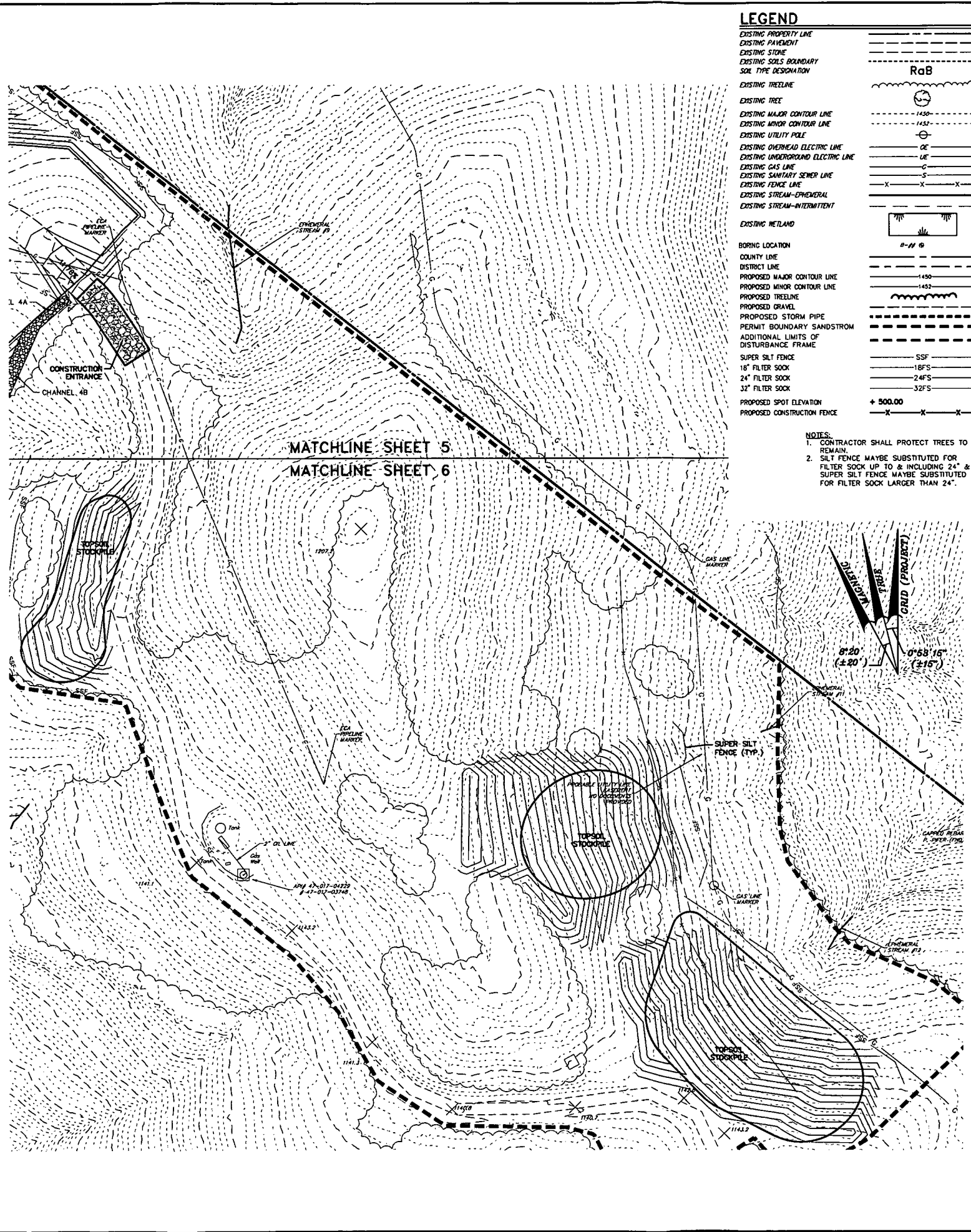
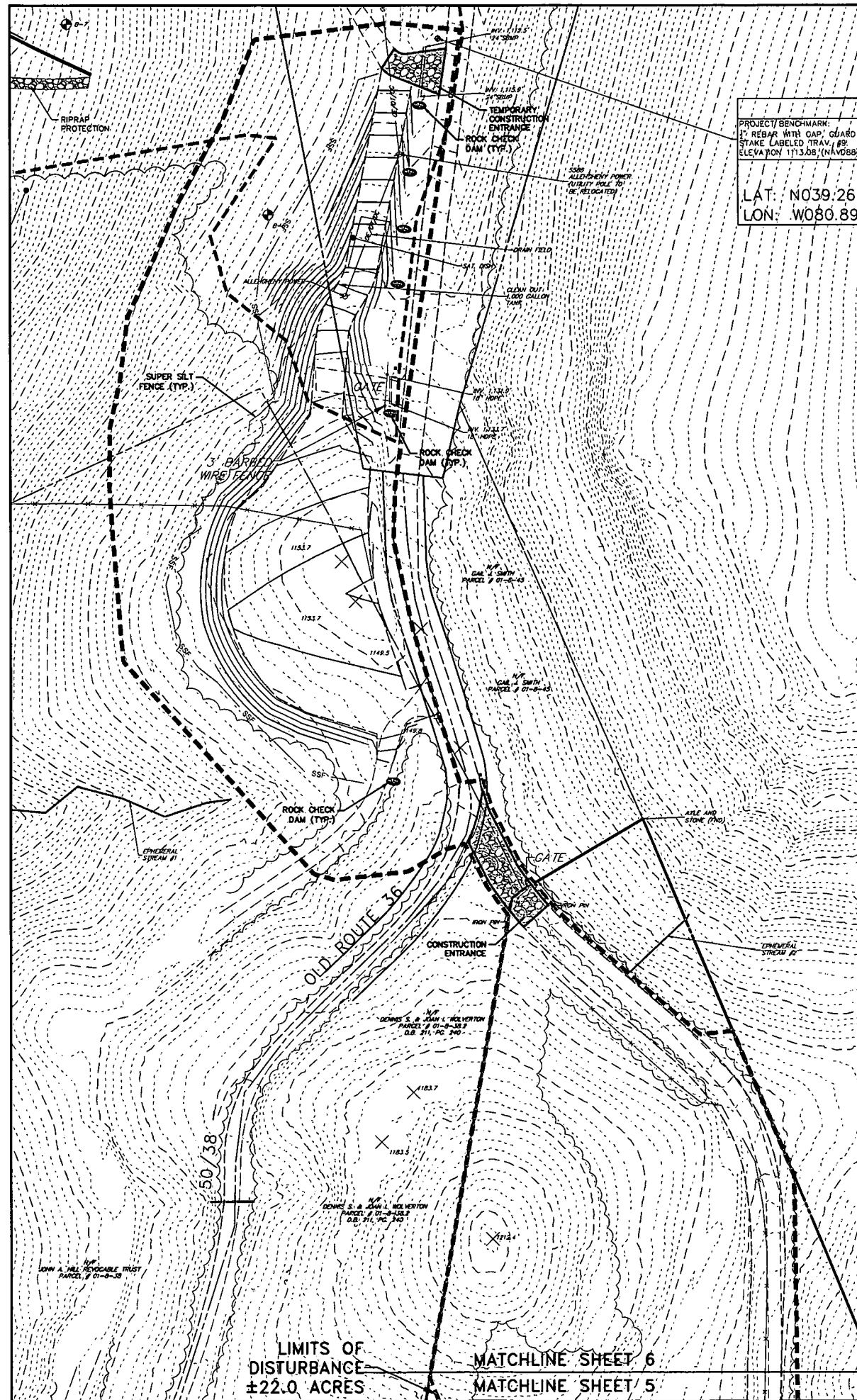
GRADING/E&S PLAN  
 CONSTRUCTION DRAWINGS

SANDSTROM FACILITY  
 FOR  
 FRAME SITE

CENTRAL TAX DISTRICT  
 DODDRIDGE COUNTY, WV

DATE: AUGUST 26, 2015  
 SHEET NO. 5 OF 22  
 DWG. NO. 095452132

NOT FOR CONSTRUCTION/NOT FOR BIDDING



### LEGEND

EXISTING PROPERTY LINE	---
EXISTING PAVEMENT	----
EXISTING STONE	-----
EXISTING SOIL BOUNDARY	-----
SOIL TYPE DESIGNATION	RqB
EXISTING TREETRUE	~
EXISTING TREE	⊙
EXISTING MAJOR CONTOUR LINE	-----
EXISTING MINOR CONTOUR LINE	-----
EXISTING UTILITY POLE	⊙
EXISTING OVERHEAD ELECTRIC LINE	⊙
EXISTING UNDERGROUND ELECTRIC LINE	⊙
EXISTING GAS LINE	⊙
EXISTING SANITARY SEWER LINE	⊙
EXISTING FENCE LINE	⊙
EXISTING STREAM-EPHEMERAL	---
EXISTING STREAM-PERMANENT	---
EXISTING METLAND	---
BORING LOCATION	⊙
COUNTY LINE	---
DISTRICT LINE	---
PROPOSED MAJOR CONTOUR LINE	-----
PROPOSED MINOR CONTOUR LINE	-----
PROPOSED TREETRUE	~
PROPOSED TREE	⊙
PROPOSED STORM PIPE	---
PERMIT BOUNDARY SANDSTROM	---
ADDITIONAL LIMITS OF DISTURBANCE FRAME	---
SUPER SILT FENCE	SSF
18" FILTER SOCK	18FS
24" FILTER SOCK	24FS
32" FILTER SOCK	32FS
PROPOSED SPOT ELEVATION	+ 500.00
PROPOSED CONSTRUCTION FENCE	X-X-X

- NOTES:
- CONTRACTOR SHALL PROTECT TREES TO REMAIN.
  - SILT FENCE MAYBE SUBSTITUTED FOR FILTER SOCK UP TO & INCLUDING 24" & SUPER SILT FENCE MAYBE SUBSTITUTED FOR FILTER SOCK LARGER THAN 24".

SCALE: 1" = 50'

FOR REVIEW ASSOCIATES BY:

MANAGER: ANDREW LEVINE, PE  
 DESIGN BY: KME  
 DRAWN BY: KME  
 SURV. CHIEF: KME

CHOK BY: MDD  
 CHOK BY: MDD  
 SURV. CHIEF: N/A

CLIENT: ANTERO RESOURCES CORPORATION  
 1615 WYNKOOP STREET  
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Grading/E&S Plan  
 CONSTRUCTION DRAWINGS  
 FOR SANDSTROM FACILITY  
 FRAME SITE

CENTRAL TAX DISTRICT  
 DODDRIEGE COUNTY, WY

DATE: AUGUST 26, 2015  
 SHEET NO. 6 OF 22  
 DWG. NO. 095452132

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JOINS PANEL 0115

285000 FT

280000 FT

39° 15' 00"

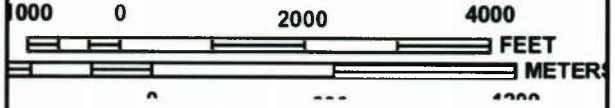
80° 52' 30"

157000 FT

157500 FT



MAP SCALE 1" = 2000'



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0100C

**FIRM**  
**FLOOD INSURANCE RATE MAP**  
**DODDRIDGE COUNTY,**  
**WEST VIRGINIA**  
**AND INCORPORATED AREAS**

PANEL 100 OF 325  
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
DODDRIDGE COUNTY	540024	0100	C

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

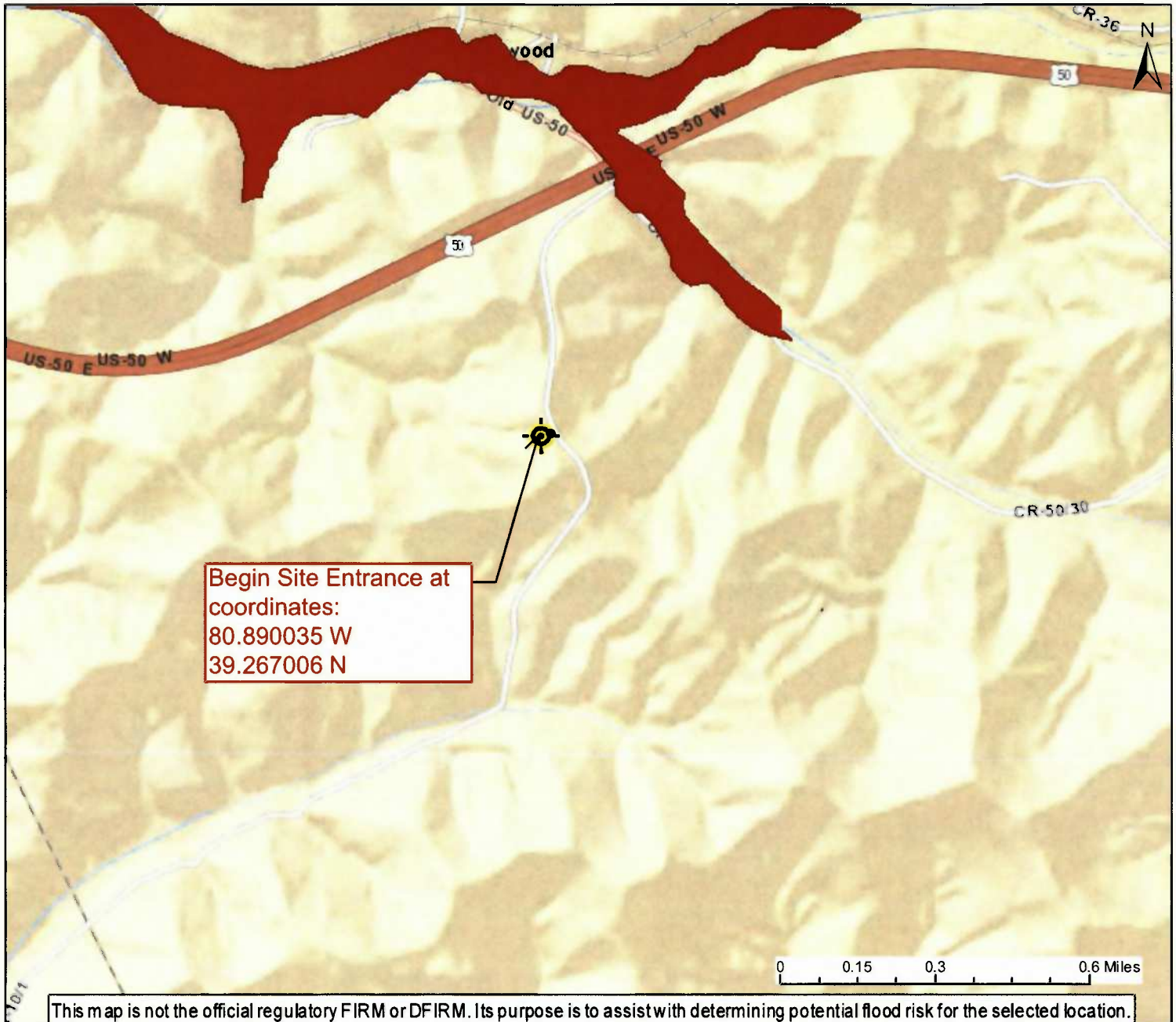


MAP NUMBER  
 54017C0100C  
 MAP REVISED  
 OCTOBER 4, 2011

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)

# WV Flood Map



Begin Site Entrance at  
coordinates:  
80.890035 W  
39.267006 N

This map is not the official regulatory FIRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

## User Notes:

Map created on October 13, 2015

### Flood Hazard Area:

Flood Hazard Area: Location is NOT WITHIN any identified flood hazard area. Unmapped flood hazard

**FEMA Issued Flood Map:** 54017C0100C

**Watershed (HUC8):** Little Kanawha (5030203)

**Elevation:** About 1141 ft

**Location (long, lat):** (80.890346 W, 39.266998 N)

**Location (UTM 17N):** (509460, 4346411)

**Contacts:** Doddridge

**CRS Information:** N/A

**Parcel Number:**

 Flood Hazard Zone

 Flood Point of Interest

### Disclaimer:

The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. To obtain more detailed information in areas where Base Flood Elevations have been determined, users are encouraged to consult the latest Flood Profile data contained in the official flood insurance study. These studies are available online at [www.msc.fema.gov](http://www.msc.fema.gov). *WV Flood Tool* (<http://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.

**Doddridge County Floodplain Permit Application (New)**

**Permits applications received November 4, 2015 through November 16, 2015**

**Announced November 17, 2015**

**Permit Application # 15-391**

MarkWest Liberty Midstream & Resources, LLC.

Administration Bldg.

Location: Swisher Lane

Received: 10/30/15

Announced: 11/17/15

Publication Date: Week of 11/16/15

20-Day Comment Period Window (from Commission Meeting) 12/07/2015

90-Day Approval Window (from date of receipt) N/A

Project Description: Administration and Storage Bldg.

**Permit Application # 15-392**

EQM Gathering OPCO, LLC

EQT MOSA So 28 Pipeline Project

Location: Meathouse Fork 39.262229, -80.727094

Received: 10/30/15

Announced: 11/17/15

Publication Date: Week of 11/16/15

20-Day Comment Period Window (from Commission Meeting) 12/07/2015

90-Day Approval Window (from date of receipt) N/A

Project Description: Well Line

**Permit Application # 15-393**

Antero Resources

Meek 2 Access Road

Location: Sherwood-Greenbrier Rd

Received: 11/09/15

Announced: 11/17/15

Publication Date: Week of 11/16/15

20-Day Comment Period Window (from Commission Meeting) 12/07/2015

90-Day Approval Window (from date of receipt) N/A

Project Description: Access Road

**Permit Application # 15-394 – NOT IN FLOODPLAIN**

Antero Resources

Sandstrom Facility Frame Site

Location: On The West Side of Old County Rt. 36 (Gum Run Rd)

Received: 11/09/15

Announced: 11/17/15

Publication Date: Week of 11/16/15

20-Day Comment Period Window (from Commission Meeting) 12/07/2015

90-Day Approval Window (from date of receipt) N/A

Project Description: Water Treatment Facility

# The Doddridge Independent

## The Doddridge Independent PUBLISHER'S CERTIFICATE

I, Michael D. Zorn, Publisher of The Doddridge Independent, A newspaper of general circulation published in the town of West Union, Doddridge County, West Virginia, do hereby certify that:

**Permit Application # 15-394 - NOT IN FLOODPLAIN**  
Please take notice that on the 9th day of November, 2015

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

**Sandstrom Facility Frame Site**

**Location: On The West Side of Old County Rt. 36 (Gum Run Rd)**

was published in The Doddridge Independent  
2 times commencing on Friday, November 20, 2015 and  
Ending on Friday, November 27, 2015 at the request of:

**George Eidel, Doddridge County Floodplain  
Manager & Doddridge County Commission**

Given under my hand this Friday, November 27, 2015

The publisher's fee for said publication is:

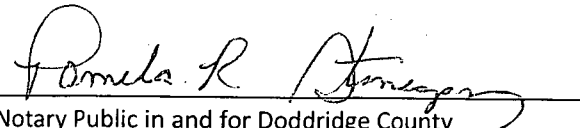
**\$ 25.27 1st Run/\$ 18.95 Subsequent Runs**

**This Legal Ad Total: \$ 44.22**

  
Michael D. Zorn  
Publisher of The Doddridge Independent

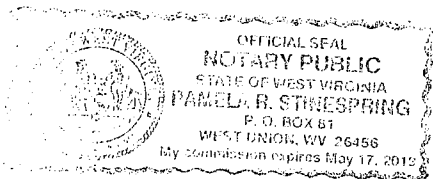
Subscribed to and sworn to before me on

this date: 11/30/15

  
Notary Public in and for Doddridge County

My Commission expires on

The 17<sup>th</sup> day of May 20 19



### Public Notice • Legal Notice

Doddridge County  
**Permit Application # 15-394 - NOT IN FLOODPLAIN**  
Please take notice that on the 9th day of November, 2015  
**Antero Resources**  
filed an application for a Floodplain Permit to develop land located at or about:  
**Sandstrom Facility Frame Site**  
**Location: On The West Side of Old County Rt. 36 (Gum Run Rd)**  
**Received: 11/09/15**  
**Announced: 11/17/15**  
**Publication Date: Week of 11/16/15**  
**20-Day Comment Period Window (from Commission Meeting) 12/07/2015**  
**90-Day Approval Window (from date of receipt) N/A**  
**Project Description: Water Treatment Facility**  
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 November 30, 2015, delivered to:  
Clerk of the County Court  
118 E. Court Street, West Union, WV 26456  
Beth A. Rogers, Doddridge County Clerk  
George Eidel, Doddridge County Floodplain Manager  
11/20 - 11/27