

Commercial/Industrial Floodplain Development Permit

Doddridge County, WV Floodplain Management

This permit has been issued to **EQT Production Company**, 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: #15-343 OXF 153 Well Pad Modification

Date Approved: 04/10/2015

Expires: N/A

Issued to: EQT Production Company

**POC: Locoa Corder
304-848-0066**

**Company Address: 115 Professional Place
Bridgeport, WV 26330**

Project Address: Southwest District

Lat/Long: 39.192463N/80.836589W

Purpose of development: Well pad modification project. Project does not impact floodplain.

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

Date: 04/10/2015

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



15-343

March 24, 2015

2015 MAR 26 AM 11:44

BETH A. ROGERS
COUNTY CLERK
DODDRIDGE COUNTY, WV

Mr. Bo Wriston
Floodplain Coordinator
Doddridge County Commission
118 East Court Street
West Union, WV 26456

Re: EQT Production Company, OXF 153 Well Site
Doddridge County, WV, SLS Project No. 8261

Mr. Wriston,

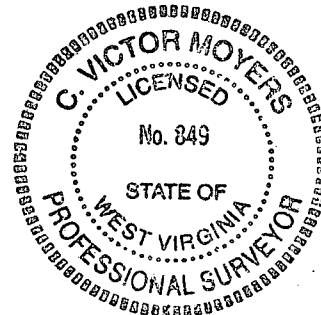
On behalf of EQT Production Company, Smith Land Surveying, Inc. would like to notify you that the attached OXF 153 Site Plan Modification has been submitted to the WVDEP. The current site consists of an access road and well pad. EQT is proposing to enlarge the existing well pad and to construct a flowback pit in order to drill 4 additional Marcellus Shale gas wells. The site entrance is located in Doddridge County, approximately 1.6 miles southwest of the junction of Co. Rt. 19/11 and 19. The entrance to the site is located at Latitude 39.192463, Longitude -80.836589 (NAD 83).

Based on the information presented on the site FIRM, this project is not located within FEMA Flood Zone. No fill shall be placed within the floodplain limits for this project. No other permitting is necessary for this project.

Included in the attachments are the following: cover letter, FEMA map with the site location, vicinity map, and site plans dated 2/02/15.

If you have any questions please feel free to contact me at (304) 462-5634 or Wes Wayne (Design Coordinator) with SLS at 304-904-9184 or wwayne@slssurveys.com, should you have any questions or comments.

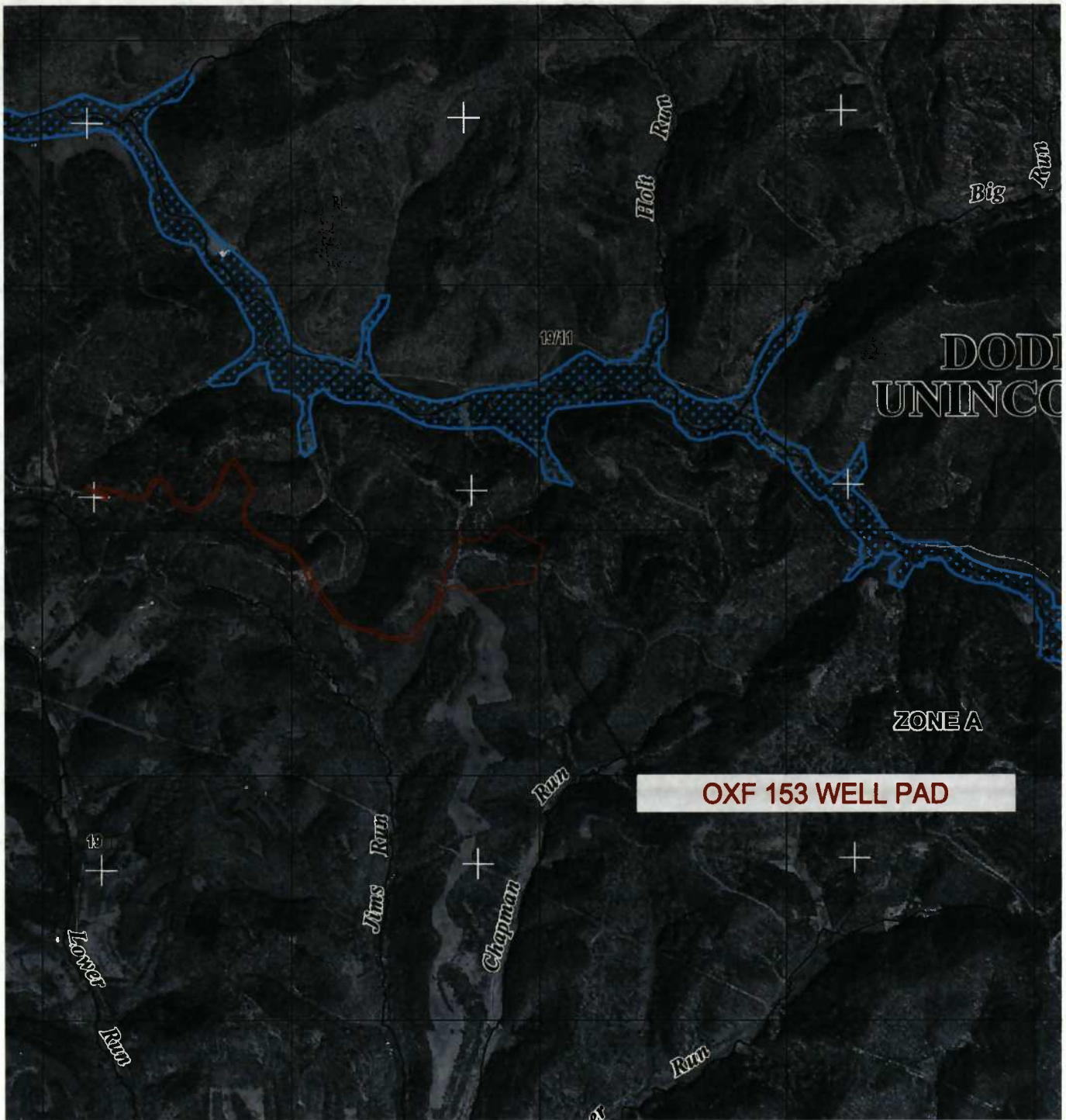
Respectfully submitted,



C. Victor Moyers, P.S.

cc: Lacoa L. Corder, EQT Environmental Coordinator.

OXF 153 WELL SITE; FEMA MAP



NOTES

FEMA FIRM
MAP # 54017C0225C

SCALE

1 INCH = 2000-FEET



JOB #: 8261
DRAWN BY: K.E.S.
DATE: 3/24/15
SCALE: 1" = 2000'

OXF 153 FEMA

THIS DOCUMENT WAS PREPARED BY:
SMITH LAND SURVEYING, INC.
FOR: EQT



Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING, INC.



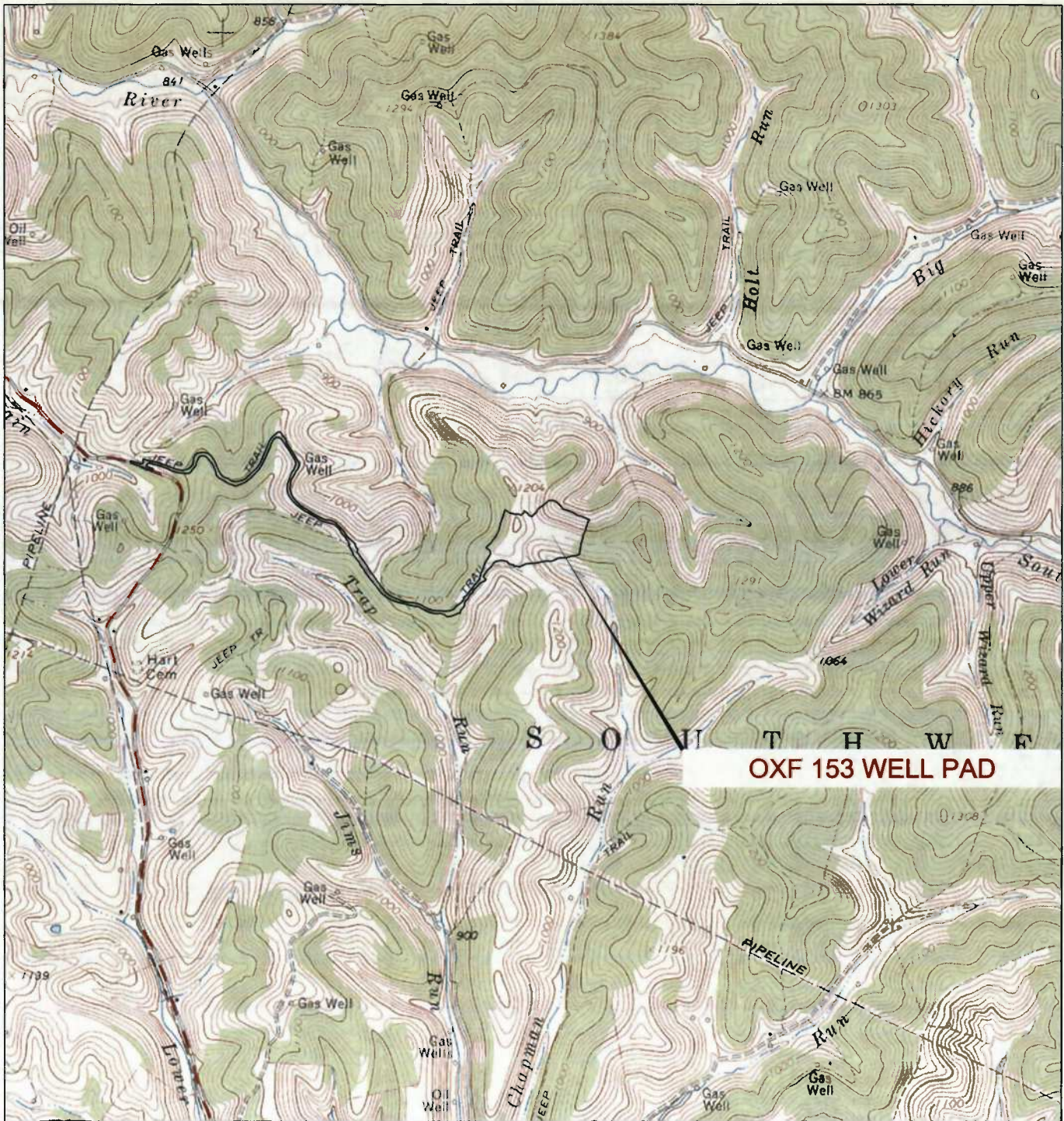
(304) 462-5634

SURVEYORS
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ENVIRONMENTAL
PROJECT MGMT.
WWW.SLSURVEYS.COM



Where energy meets innovation.

OXF 153 VICINITY MAP



OXF 153 WELL PAD

SCALE

1 INCH = 2000-FEET

0' 2000' 4000' 6000'



NOTES

USGS OXFORD TOPO
QUADRANGLE

OXF 153

THIS DOCUMENT WAS PREPARED BY:
SMITH LAND SURVEYING, INC.
FOR: EQT



Professional Energy Consultants

A DIVISION OF SMITH LAND SURVEYING, INC.



(304) 462-5634

SURVEYORS
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JOB #: 8261
DRAWN BY: K.E.S.
DATE: 3/24/15
SCALE: 1" = 2000'

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
15-343

was published in said paper for *2*

successive weeks beginning with the issue
of *April 7th* 2015 and

ending with the issue of
April 14th 2015 and

that said notice contains *210*

WORD SPACE at *.115* cents a word

amounts to the sum of \$ *24.15*

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

\$ *18.12*
and each publication thereafter

\$ *42.27* TOTAL

EDITOR

Virginia Nicholson

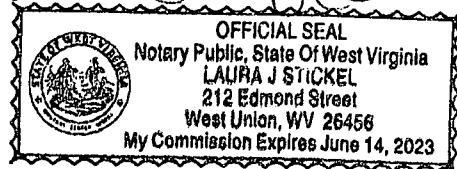
SWORN TO AND SUBSCRIBED

BEFORE ME THIS THE *14th* DAY

OF *April* 2015

NOTARY PUBLIC

Laura J. Stickel



Legal Advertisement

LEGAL ADVERTISEMENT:
Doddridge County

Floodplain Permit Application

Please take notice that on the 26th day of March, 2015 EQT Production Company filed an application for a Floodplain Permit to develop land located at or about: Southwest District 39.1924632N/80.836589W Permit #15-343 OXF 153 Well Pad Expansion. (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 April 27, 2015.

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

4-7-2xb

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:

EQT Production Company

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

Southwest District

39.192463N/80.836589W

Permit #15-343 OXF 153 Well Pad Expansion

(Note: This project is not within the floodplain)

was published in The Doddridge Independent
2 times commencing on Friday, April 17, 2015 and
Ending on Friday, April 24, 2015 at the request of:

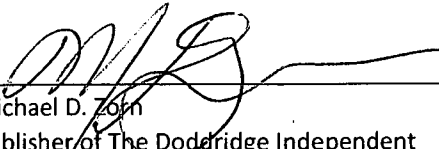
**Edwin Wriston, Doddridge County Floodplain
Manager & Doddridge County Commission**

Given under my hand this Friday, April 24, 2015

The publisher's fee for said publication is:

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

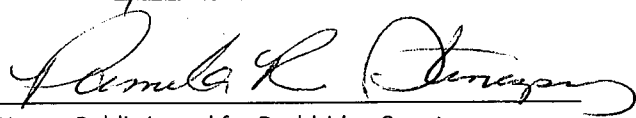
This Legal Ad Total: \$ 44.22



Michael D. Zorn
Publisher of The Doddridge Independent

Subscribed to and sworn to before me on

this date: 4/27/15



Notary Public in and for Doddridge County

My Commission expires on

The 17th day of MAY 20 19

Legal Advertisement: 4/13 - 4/20
Doddridge County
Floodplain Permit Application

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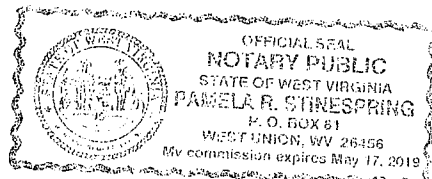
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Clerk of the County Court

118 E. Court Street, West Union, WV 26456

Beth A Rogers, Doddridge County Clerk

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



EQT OXF 153 MODIFICATION SITE PLAN

EQT PRODUCTION COMPANY

(PROPOSED WELL NO. WV515969 (H6),
WV515970 (H7), WV516239 (H8), AND WV516251 (H9))

SITUATE ON THE WATERS OF UNNAMED TRIBUTARIES
TO SOUTH FORK HUGHES RIVER; TRAP RUN, AND
CHAPMAN RUN IN SOUTHWEST DISTRICT,
DODDRIDGE COUNTY, WV

LIST OF DRAWINGS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES
3	OVERALL PLAN SHEET INDEX
4-8	ACCESS ROAD AND WELL SITE LAYOUT
9-12	WELL PAD SECTIONS
13-15	ACCESS ROAD PROFILES
16-20	ACCESS ROAD SECTIONS AND TYPICAL SECTION
21-25	RECLAMATION PLAN
26-30	CONSTRUCTION DETAILS
31	CONSTRUCTION QUANTITIES

PROJECT INFORMATION

PROJECT NAME: EQT OXF 153
TAX PARCEL:
SOUTHWEST DISTRICT, DODDRIDGE COUNTY, WV
TAX MAP 10

SURFACE OWNERS:
I.L. MORRIS
SOUTHWEST DISTRICT
DODDRIDGE COUNTY, WV
TAX MAP 10 PARCEL 2
TOTAL PROPERTY AREA: 6,600.75 +/- ACRES
TOTAL DISTURBANCE AREA: 18.6 +/- ACRES

OIL AND GAS ROYALTY OWNER:
W.B.M. HEIRS PROPERTIES, LLC (1,891 +/- ACRES)
SOUTHWEST DISTRICT
DODDRIDGE COUNTY, WV

SITE LOCATION:
THE EQT OXF 153 SITE ENTRANCE IS LOCATED 2.6 MI +/- NORTH OF
THE JUNCTION OF CR 19 AND CR 52. THE WELL PAD IS LOCATED 4.1
MILES +/- NORTH OF THE SAME JUNCTION.

LOCATION COORDINATES

EQT OXF 153 WELL PAD CENTER
LATITUDE: 39.190105 LONGITUDE: 80.817504 (NAD 83)
EQT OXF 153 ASSOCIATED FLOWBACK PIT CENTER
LATITUDE: 39.190097 LONGITUDE: 80.819393 (NAD 83)
EQT OXF 153 ACCESS ROAD AT CR 19
LATITUDE: 39.192458 LONGITUDE: 80.836641 (NAD 83)

GENERAL DESCRIPTION

THE WELL PAD, ACCESS ROAD, AND FLOWBACK PIT ARE BEING CONSTRUCTED TO AID IN
THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS.

SITE DISTURBANCE COMPUTATIONS

WELL PAD/FLOWBACK PIT AREA = 11.9 +/- ACRES
ACCESS ROAD = 6.7 +/- ACRES
TOTAL SITE DISTURBANCE AREA = 18.6 +/- ACRES

ENTRANCE PERMIT

EQT PRODUCTION COMPANY WILL OBTAIN AN ENCROACHMENT PERMIT (FORM MM-109) FROM
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO
COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

MISS UTILITY STATEMENT

MISS UTILITY OF WEST VIRGINIA WAS NOTED FOR THE LOCATING OF UTILITIES PRIOR TO
THIS PROJECT DESIGN; TICKET #1435093616. IN ADDITION, MISS UTILITY WILL BE CONTACTED
PRIOR TO START OF THE PROJECT.

ENVIRONMENTAL NOTES

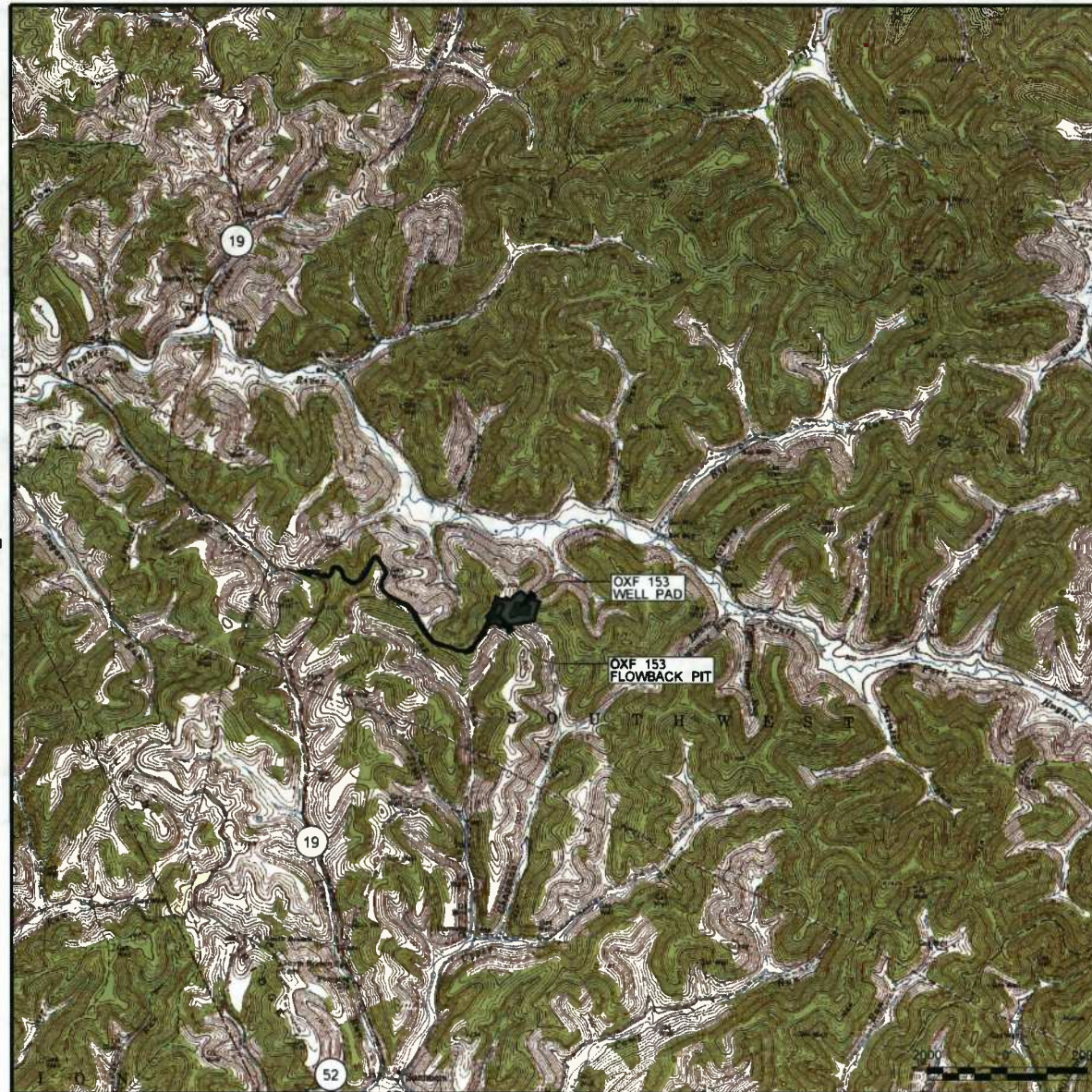
A WETLAND DELINEATION WAS PERFORMED BY POTESTA & ASSOCIATES, INC. ON 12/4/2014
TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE
REGULATORY PURVIEW OF THE U.S. ARMY CORPS OF ENGINEERS (USACE) AND/OR THE
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP). THE JANUARY 7,
2015 REPORT FOR EQT OXF 153 PREPARED BY POTESTA & ASSOCIATES, INC., SUMMARIZES
THE RESULTS OF THE FIELD DELINEATION. THE REPORT DOES NOT, IN ANY WAY,
REPRESENT A JURISDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OF WATERS
AND WETLANDS WHICH MAY BE REGULATED BY THE USACE OR THE WVDEP. IT IS
STRONGLY RECOMMENDED THAT THE AFOREMENTIONED AGENCIES BE CONSULTED IN AN
EFFORT TO GAIN WRITTEN CONFIRMATION OF THE DELINEATION DESCRIBED BY THIS
REPORT PRIOR TO ENGAGING CONSTRUCTION ON THE PROPERTY DESCRIBED HEREIN.
THE DEVELOPER SHALL OBTAIN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR
STATE REGULATORY AGENCIES PRIOR TO ANY PROPOSED IMPACTS TO WATERS OF THE
U.S., INCLUDING WETLAND FILLS AND STREAM CROSSINGS.

GEOTECHNICAL NOTES

A SUBSURFACE INVESTIGATION HAS NOT BEEN PERFORMED AS OF 01/07/15. THE
ENGINEER AND SURVEYOR ARE NOT RESPONSIBLE FOR UNFORSEEN SUBSURFACE
IRREGULARITIES CAUSING ADDITIONAL WORK OR ADDITIONAL CONSTRUCTION MEASURES
REQUIRED BEYOND THOSE STANDARD PRACTICES SHOWN ON THIS PLAN AS A RESULT OF
ANY OTHER GEOTECHNICAL COMPLICATIONS ENCOUNTERED DURING CONSTRUCTION.

RESTRICTIONS NOTES

1. THERE ARE INTERMITTENT/EPHEMERAL/PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE PROJECT LOD. THERE ARE NO WETLANDS WITHIN 100 FEET OF THE LOD.
2. THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE PAD AND LOD.
3. THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET OF THE PAD AND LOD.
4. THERE ARE NO KNOWN EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE WELL(S) BEING DRILLED. STANTEC AND SMITH LAND SURVEYING ARE NOT RESPONSIBLE FOR ANY EXISTING WATER WELL OR DEVELOPED SPRING DISCOVERED DURING CONSTRUCTION.
5. THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625 FEET OF THE CENTER OF THE PAD.
6. THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE PAD.



OXFORD QUADRANGLE
WEST VIRGINIA
7.5 MINUTE SERIES

MISS Utility of West Virginia
1-800-245-4848
West Virginia State Law
(Section XIV, Chapter 24-C)
Requires that you call two
business days before you dig in
the state of West Virginia.
IT'S THE LAW!

LEGEND			
EX. INDEX CONTOUR	--- 1550 ---	PROP. INDEX CONTOUR	— 1550 —
EX. INTERMEDIATE CONTOUR	--- 1550 ---	PROP. INTERMEDIATE CONTOUR	--- C ---
EX. BOUNDARY LINE	— A —	PROP. CUT LINE	--- C ---
EX. EDGE OF ROAD PAVEMENT	— B —	PROP. FILL LINE	— F —
EX. GUARDRAIL	— G —	PROP. LIMITS OF DISTURBANCE	--- D ---
EX. FENCELINE	— X —	ENVIRONMENTAL ASSESSMENT AREA OF DELINEATION	--- E ---
EX. GATE	— H —	PROP. WELL HEAD	— I —
EX. OVERHEAD UTILITY	— E —	PROP. CONTAINMENT BERM	— J —
EX. OVERHEAD UTILITY R/W	— K —	PROP. ROAD CENTERLINE	— L —
EX. UTILITY POLE	— M —	PROP. CULVERT	— N —
EX. GUY WIRE	— O —	PROP. RIP-RAP OUTLET PROTECTION	— P —
EX. TELEPHONE LINE	— T —	PROP. COMPOST FILTERSOCK	— CF —
EX. GASLINE	— G —	PROP. ROCK CONSTRUCTION ENTRANCE	— Q —
EX. GASLINE R/W	— R —	X-SECTION GRID INDEX	— S —
EX. WATERLINE	— W —	X-SECTION GRID INTERMEDIATE	— T —
EX. WATER WELL	— U —	X-SECTION PROPOSED GRADE	— V —
EX. GAS WELL	— V —	X-SECTION EXISTING GRADE	--- W ---
EX. TREELINE	— X —	PROP. PERIMETER SAFETY FENCE	— Y —
EX. REFERENCE TREE	— Z —	PROP. ACCESS GATE WITH EMERGENCY LIFELINE	— AA —
EX. DELINEATED STREAM	— B —		
EX. DELINEATED WETLAND	— C —		
EX. BUILDING	— D —		
EX. DITCH	— E —		

OPERATOR

EQT PRODUCTION COMPANY
OPERATOR ID: 306686
P.O. BOX 280
BRIDGEPORT, WV 26630
PHONE: (304) 348-3870

ENGINEER

STANTEC CONSULTING, INC.
111 ELKINS STREET
FAIRMONT, WV 26554
PHONE: (304) 367-9401

SURVEYOR

SMITH LAND SURVEYING, INC.
12 VANHORN DRIVE
PO BOX 150
GLENVILLE, WV 26351
PHONE: (304) 462-5634



THIS DOCUMENT WAS
PREPARED BY:
STANTEC
FOR:
EQT PRODUCTION COMPANY

TITLE SHEET
OXF 153 MODIFICATION
SOUTHWEST DISTRICT
DODDRIDGE COUNTY, WV

DATE: 02/02/2015

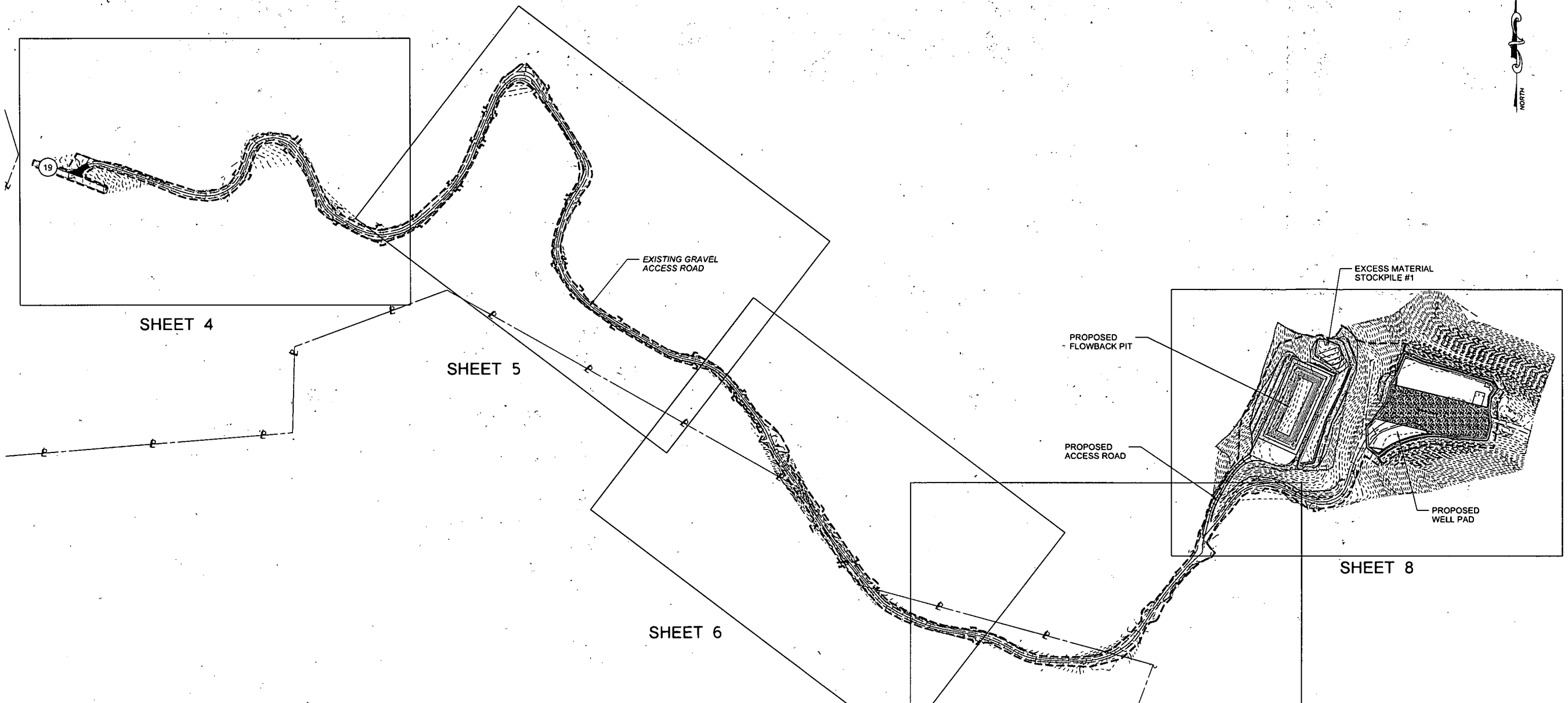
SCALE: AS SHOWN

DESIGNED BY: JMR

FILE NO.: SLS-6261

SHEET 1 OF 31

REV:



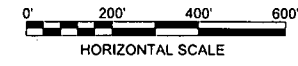
ELEVATION	BARRELS	GALLONS	ACRE-FT
1170.00	0	0	0
1172.00	5,357	225,014	0.69054
1174.00	12,066	506,760	1.55519
1176.00	20,227	849,548	2.60716
1178.00	29,945	1,257,685	3.85969
1180.00	41,321	1,735,480	5.32599
1182.00 (STORAGE)	54,458	2,287,243	7.01928
1184.00	69,459	2,917,283	8.95280

LIMIT OF DISTURBANCE
18.6 AC

NAME	VOLUME (CY)
#1	13,416
TOTAL	13,416

DESCRIPTION	CUT (CY)	FILL (CY)	SPOIL (CY)	BORROW (CY)	MAX SLOPE (%)	LENGTH OF SLOPE (FT)
ACCESS ROAD	256	9	247	0	11.7	50
FLOWBACK PIT	19,904	8,538	11,366	0	N/A	N/A
WELL PAD	2,305	10,042	0	7,737	N/A	N/A
STRIPPED TOPSOIL (0')	0	0	0	0	N/A	N/A
TOTAL	22,465	18,589	11,613	7,737		
TOTAL REQUIRED STOCKPILE VOLUME	4,651		(SEE NOTE 3)			
TOTAL AVAILABLE STOCKPILE VOLUME	13,416					
BORROW MATERIAL	0					

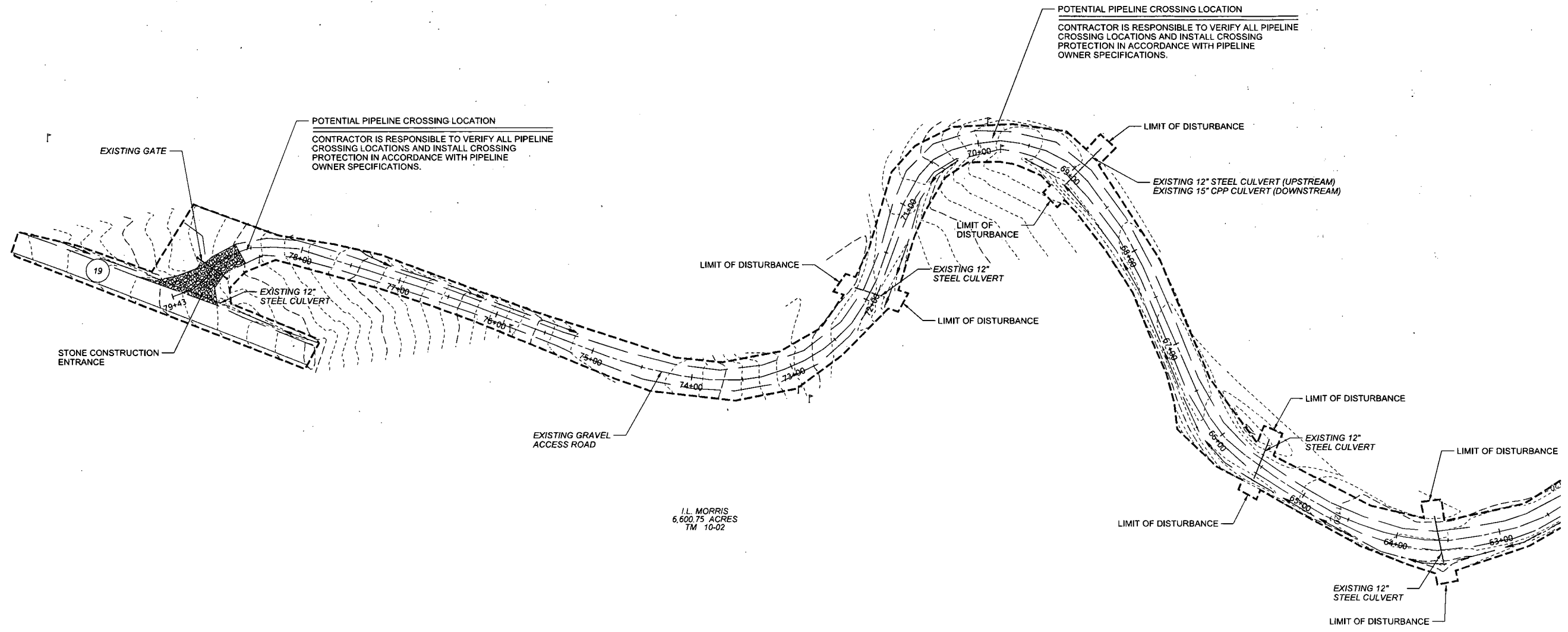
- NOTES:
- IT IS ASSUMED NO TOPSOIL WILL BE STRIPPED SINCE THIS IS AN EXISTING SITE.
 - THE EARTHWORK QUANTITIES PROVIDED ARE AN ESTIMATE FOR CONSIDERATION. THE QUANTITIES SHOWN ARE CALCULATED USING A 1:1 CUT/SWELL AND FILL/SHRINK FACTOR. THE QUANTITIES SHOWN MAY BE GREATER OR LESSER THAN ACTUALLY EXCAVATED. THE ENGINEER IS NOT RESPONSIBLE FOR VARIANCES FROM THE ESTIMATED QUANTITIES AND DOES NOT CERTIFY TO THEIR ACCURACY.
 - REQUIRED STOCKPILE VOLUME INCLUDES 20% SWELL FACTOR.



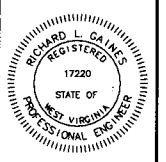
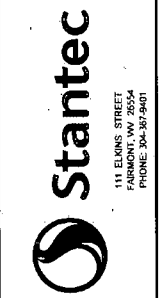
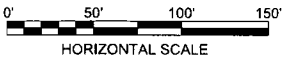
THIS DOCUMENT WAS PREPARED BY: STANTEC FOR: EDT PRODUCTION COMPANY

OVERALL PLAN SHEET INDEX
OXF 153 MODIFICATION
SOUTHWEST DISTRICT
DODDRIDGE COUNTY, WV

DATE: 02/02/2015
SCALE: AS SHOWN
DESIGNED BY: JMR
FILE NO.: SLS-8261
SHEET 3 OF 31
REV:



I.L. MORRIS
 6,600.75 ACRES
 TM 10-02

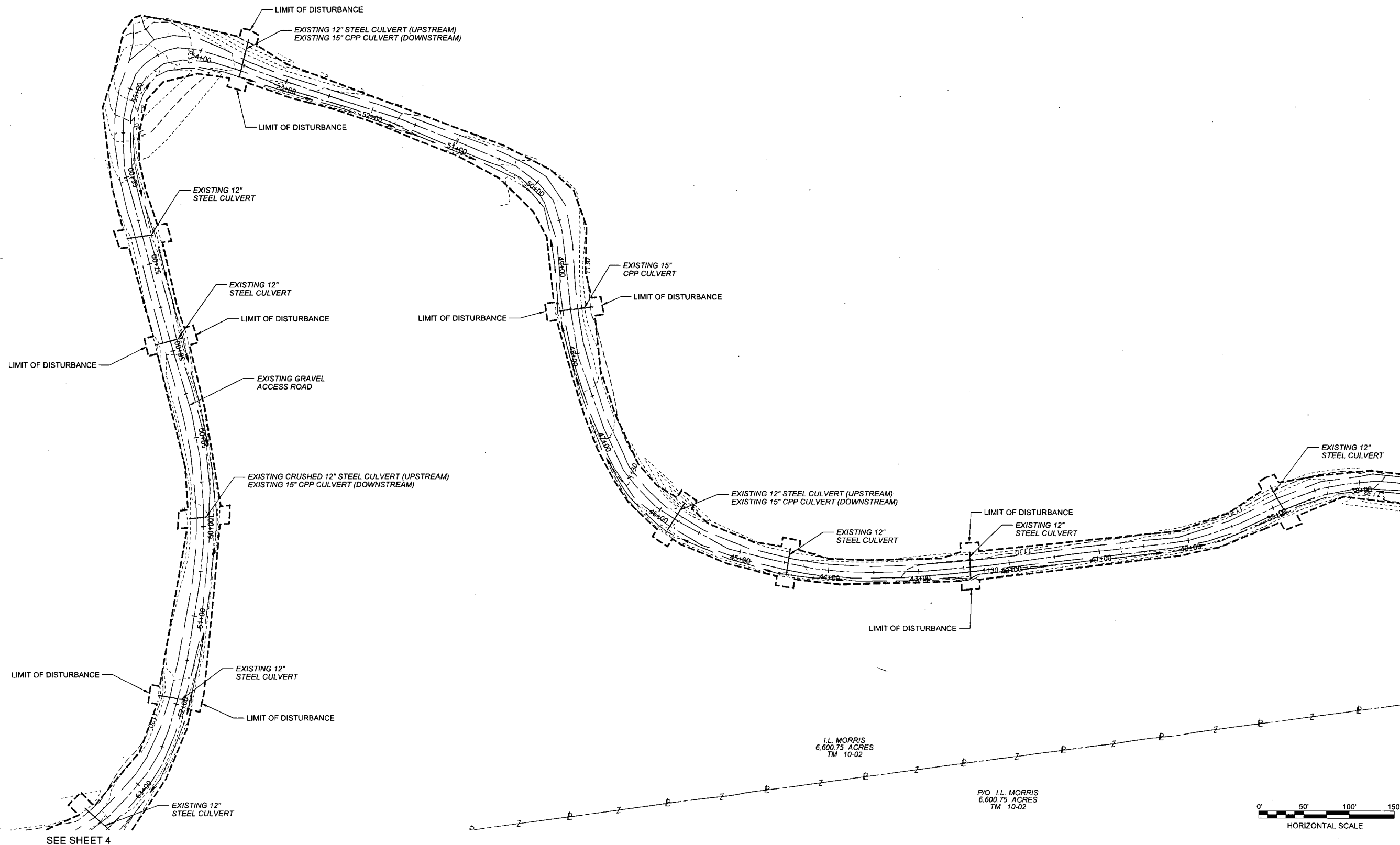
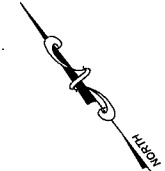


THIS DOCUMENT WAS PREPARED BY:
 STANTEC
 FOR:
 EDT PRODUCTION COMPANY

EXISTING ACCESS ROAD
OXF 153 MODIFICATION
 SOUTHWEST DISTRICT
 DODDRIDGE COUNTY, WV

DATE: 02/02/2015
 SCALE: AS SHOWN
 DESIGNED BY: JMR
 FILE NO.: SLS-6261
 SHEET 4 OF 31
 REV:

SEE SHEET 5



SEE SHEET 4

SEE SHEET 6

I.L. MORRIS
 6,600.75 ACRES
 TM 10-02

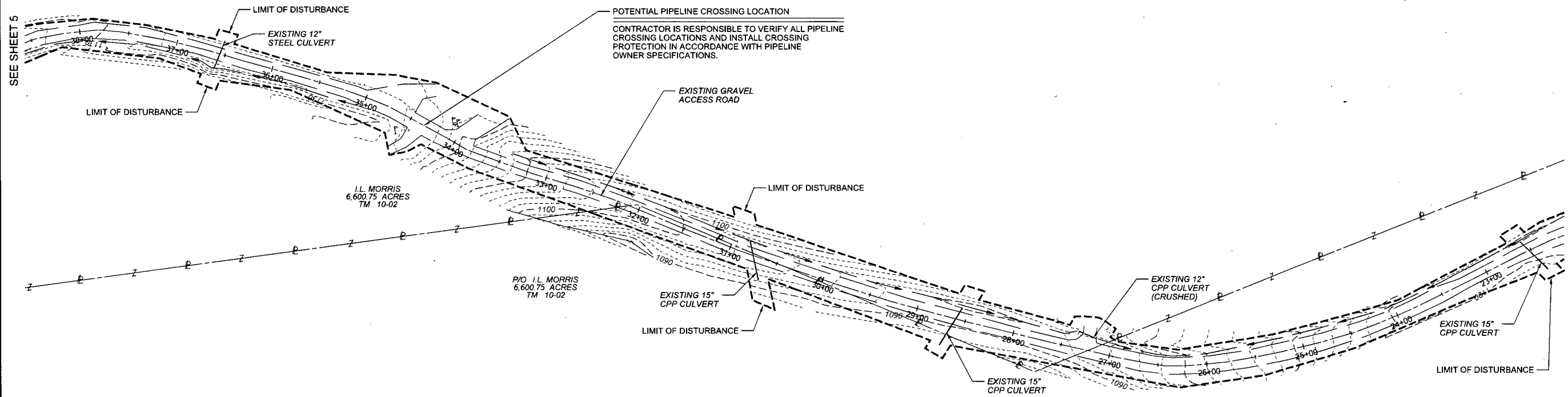
P/O I.L. MORRIS
 6,600.75 ACRES
 TM 10-02



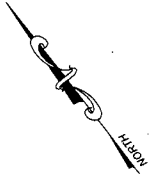
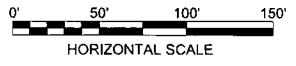
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EXISTING ACCESS ROAD
OXF 153 MODIFICATION
 SOUTHWEST DISTRICT
 DODDRIDGE COUNTY, WV

DATE: 02/02/2015
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 FILE NO.: SLS-8261
 SHEET 5 OF 31
 REV:



POTENTIAL PIPELINE CROSSING LOCATION
 CONTRACTOR IS RESPONSIBLE TO VERIFY ALL PIPELINE
 CROSSING LOCATIONS AND INSTALL CROSSING
 PROTECTION IN ACCORDANCE WITH PIPELINE
 OWNER SPECIFICATIONS.

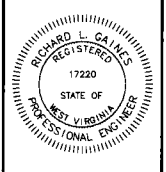


SEE SHEET 5

SEE SHEET 7



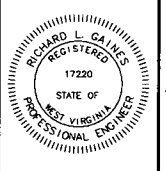
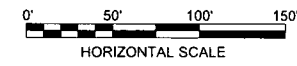
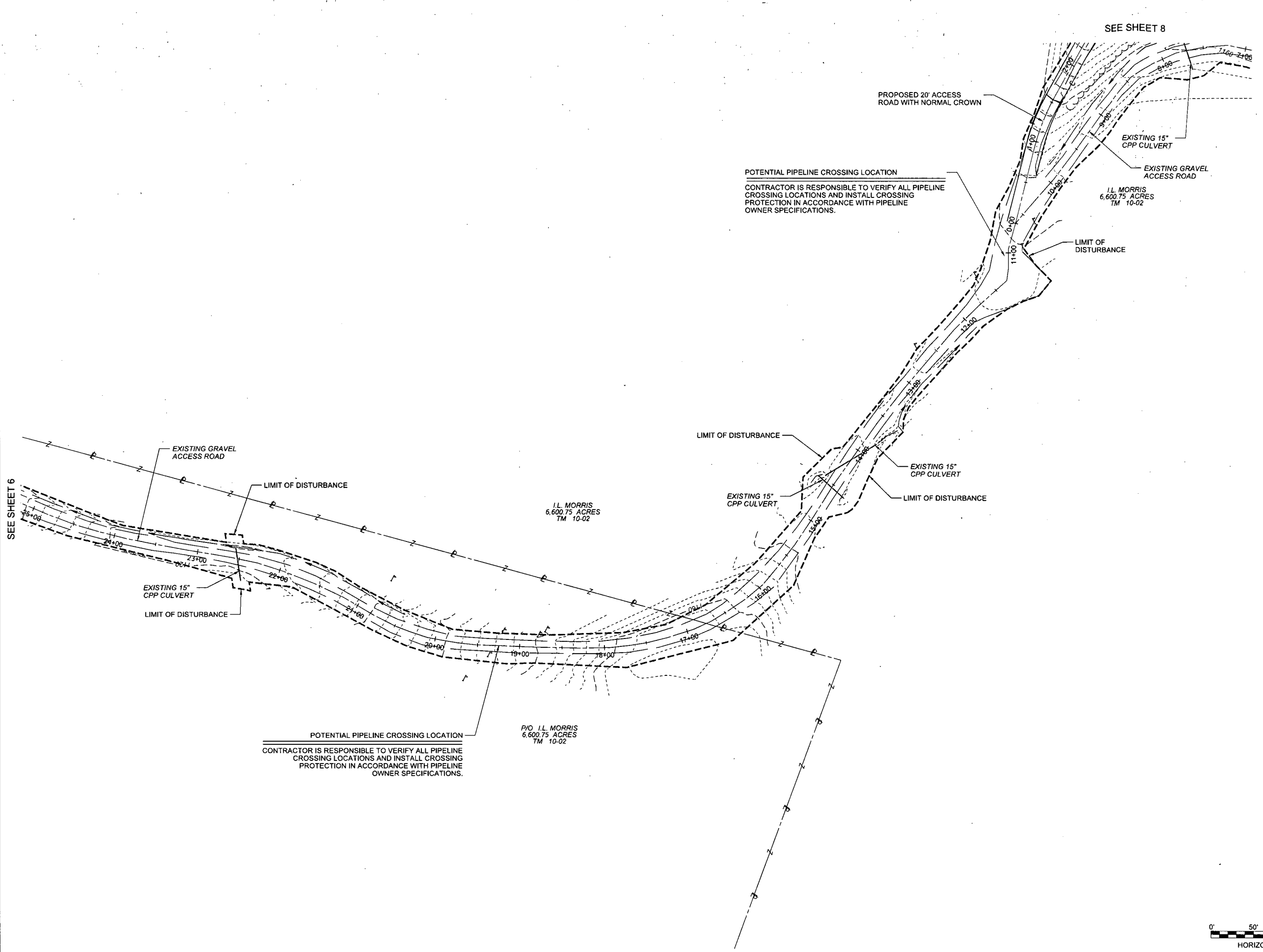
Professional Energy Consultants
 A DIVISION OF BIRTHLAND SURVEYING, INC.
 SURVEYORS
 ENGINEERS
 ENVIRONMENTAL
 PROJECT MGMT.
 WWW.SLSURVEYS.COM
 (801) 828-2434



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 STANTEC
 FOR
 EOT PRODUCTION COMPANY

EXISTING ACCESS ROAD
OXF 153 MODIFICATION
 SOUTHWEST DISTRICT
 DODDRIDGE COUNTY, WV

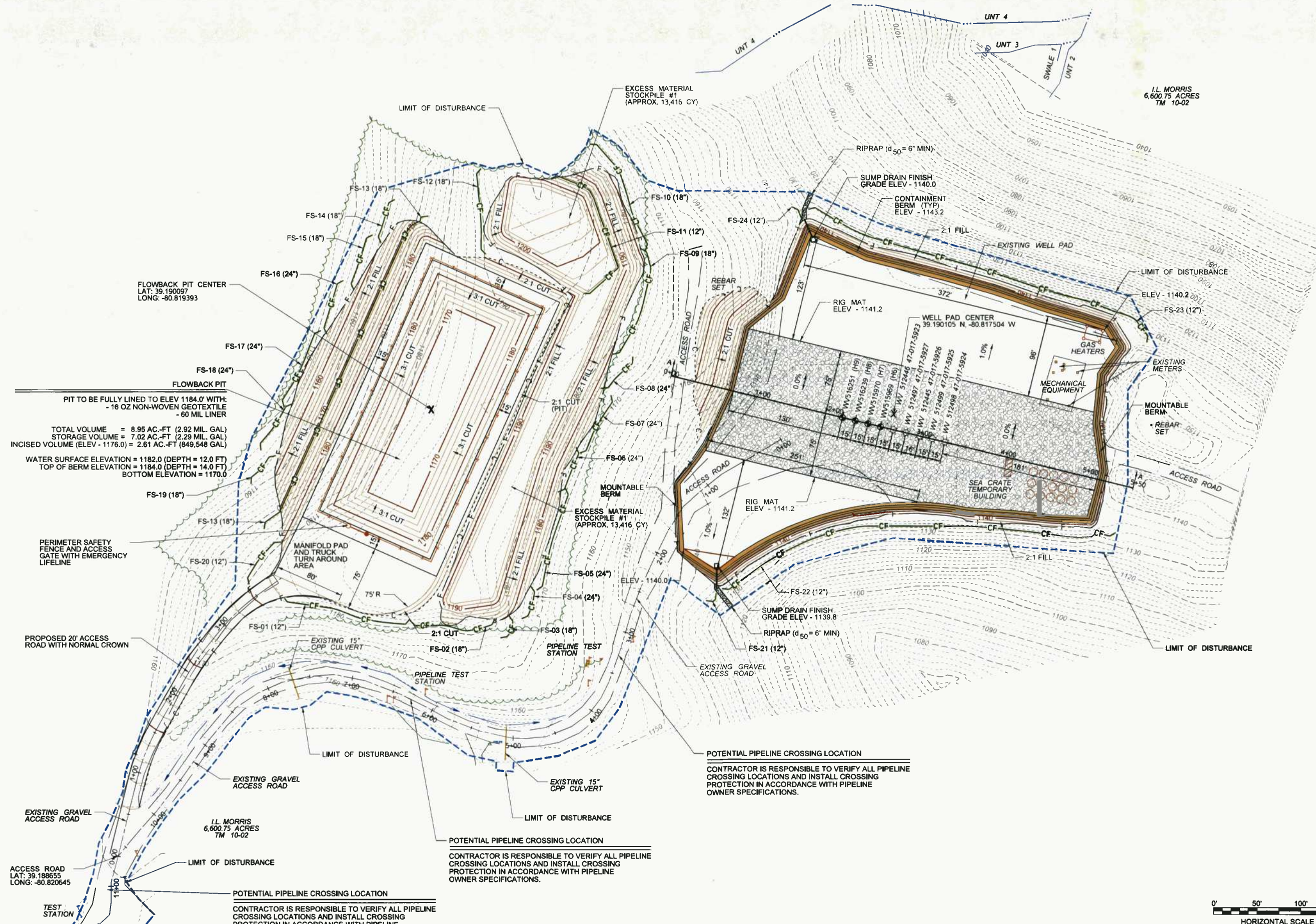
DATE: 02/02/2015
 SCALE: AS SHOWN
 DESIGNED BY: JMR
 FILE NO.: SLS-8261
 SHEET 6 OF 31
 REV:



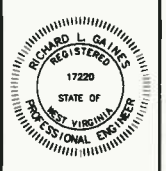
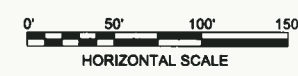
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 FOR:
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EXISTING ACCESS ROAD AND
 PROPOSED ACCESS ROAD LAYOUT
OXF 153 MODIFICATION
 SOUTHWEST DISTRICT
 DODDRIDGE COUNTY, WV

DATE: 02/02/2015
SCALE: AS SHOWN
DESIGNED BY: JMR
FILE NO.: SLS-8261
SHEET 7 OF 31
REV:



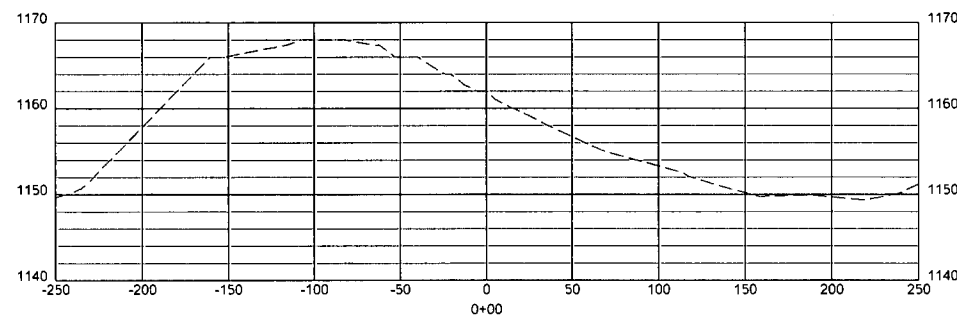
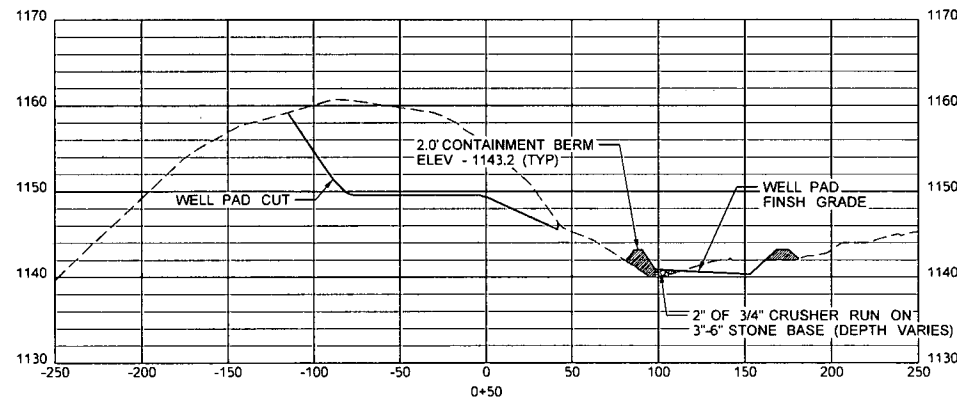
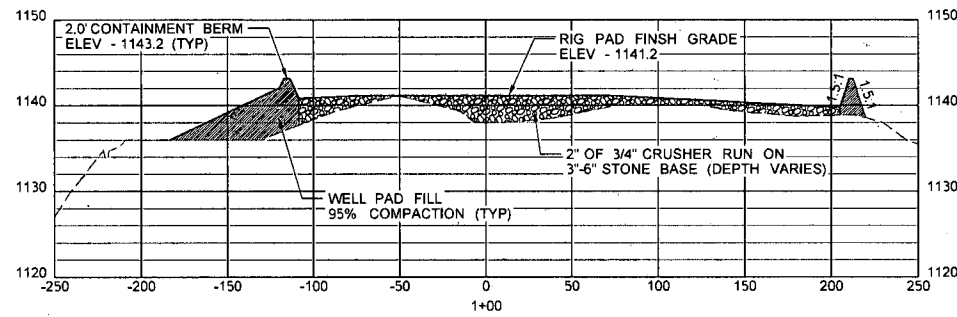
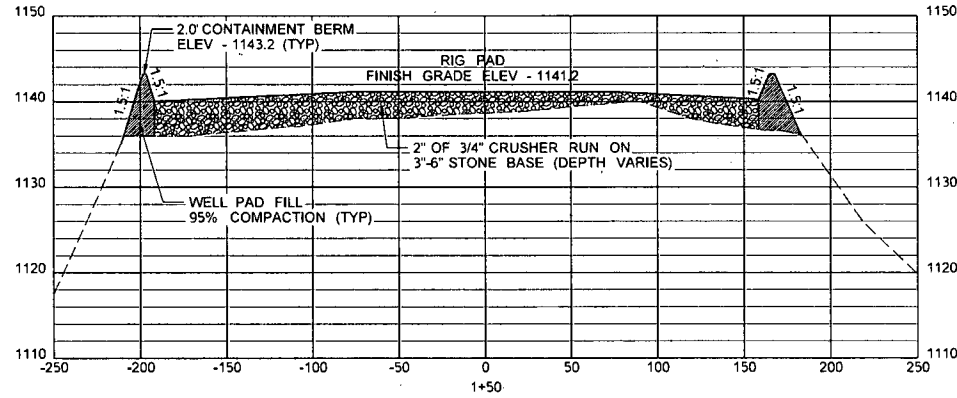
SEE SHEET 7



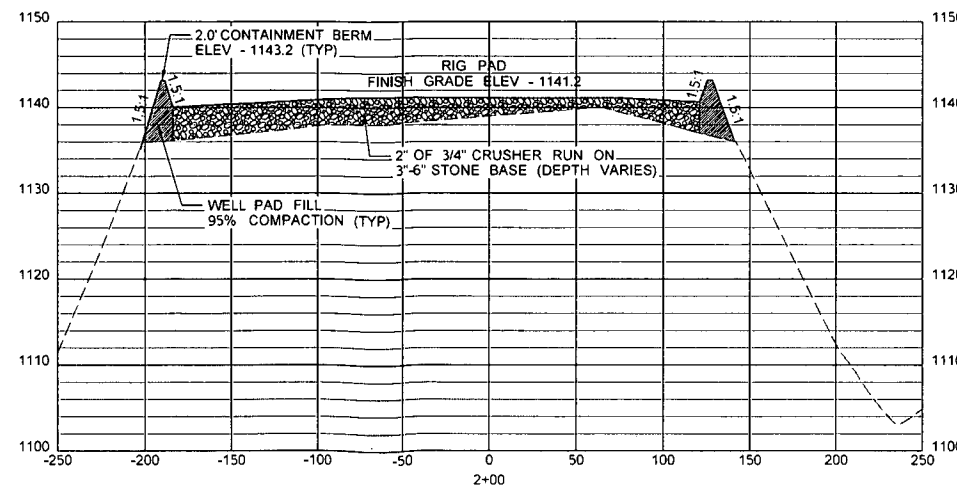
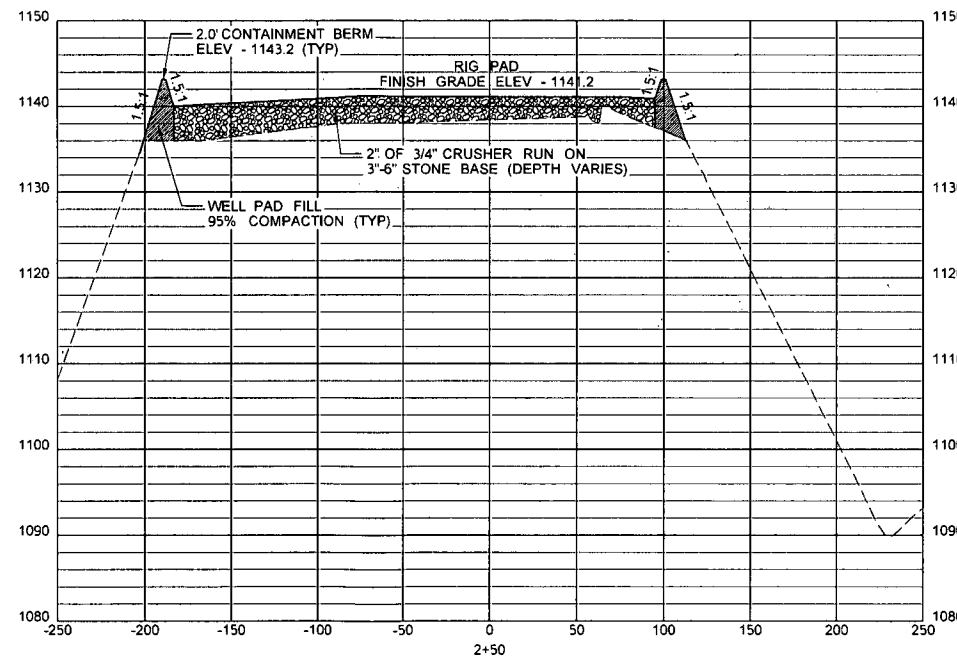
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ACCESS ROAD AND FLOWBACK PIT LAYOUT
OXF 153 MODIFICATION
 SOUTHWEST DISTRICT
 DODDRIDGE COUNTY, WV

DATE: 02/02/2015
 SCALE: AS SHOWN
 DESIGNED BY: JMR
 FILE NO.: SLS-8261
 SHEET 8 OF 31
 REV:

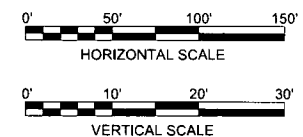


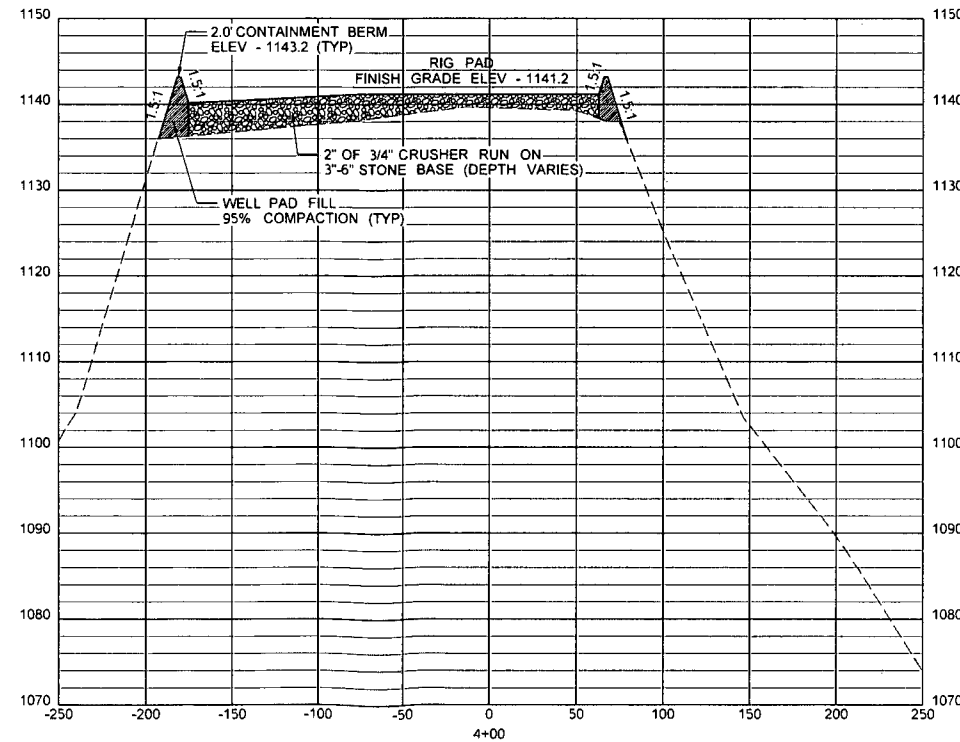
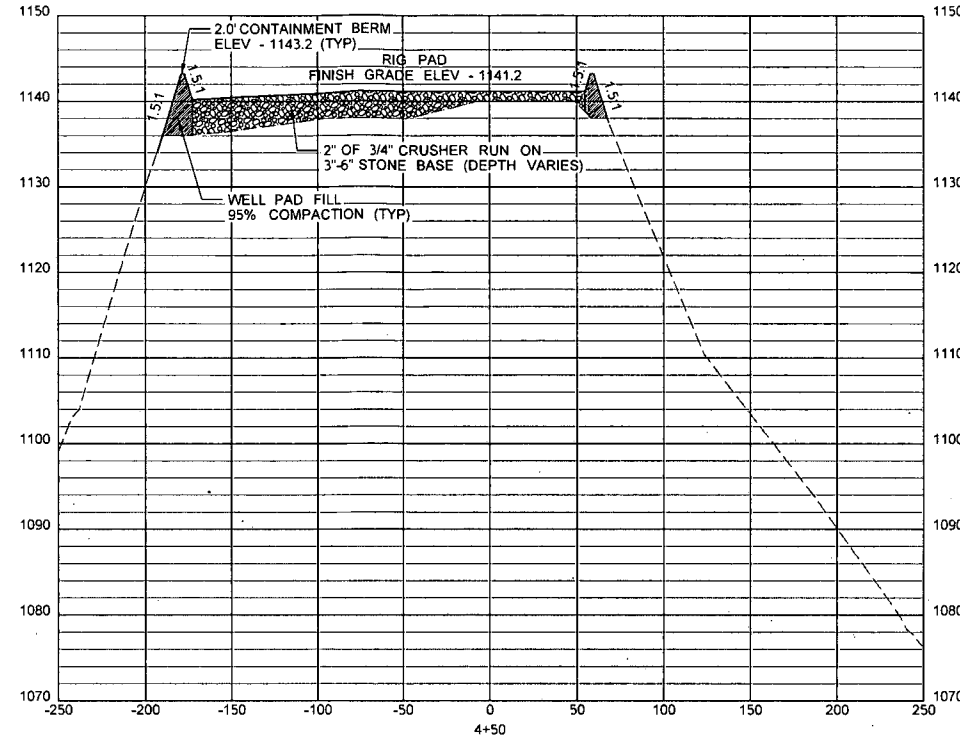
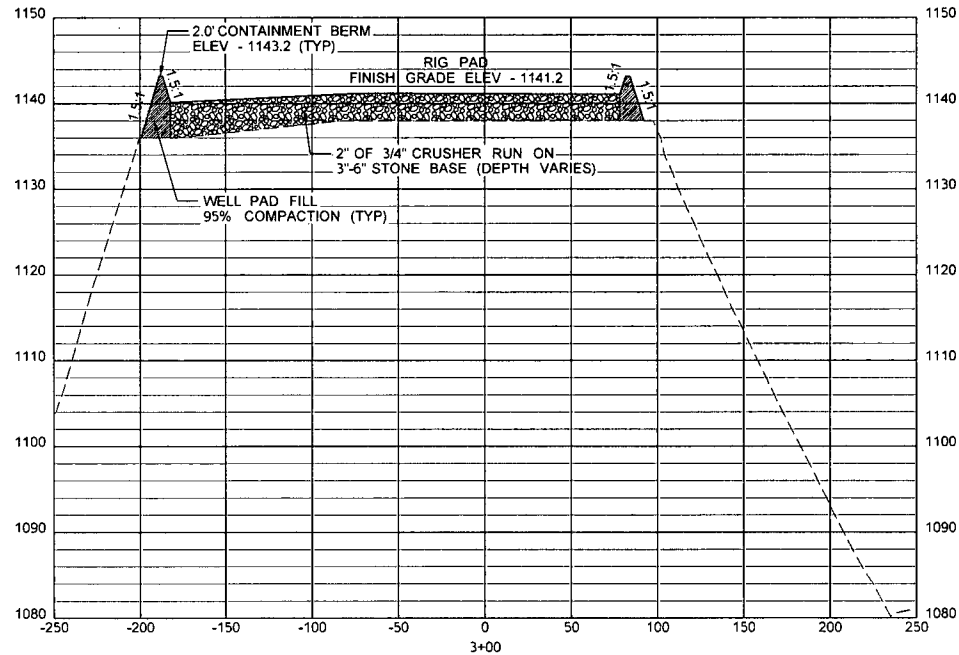
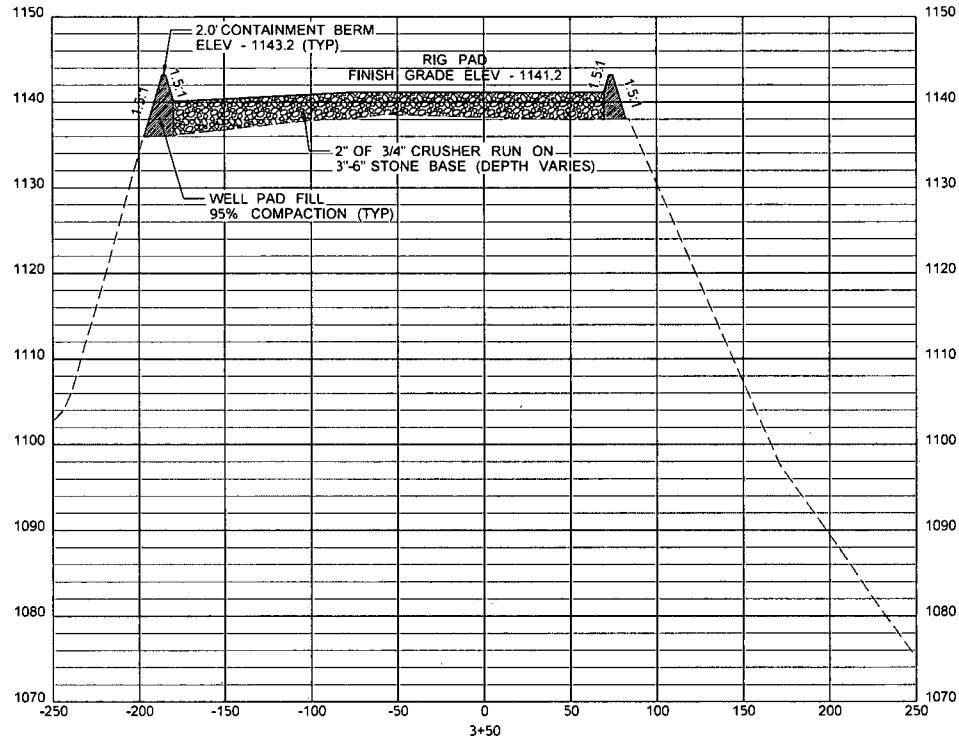
NOTE:
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WELL PAD CROSS SECTIONS ALONG SECTION LINE A-A

LEGEND
 - - - - - EXISTING GRADE
 ——— PROPOSED GRADE

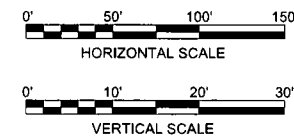


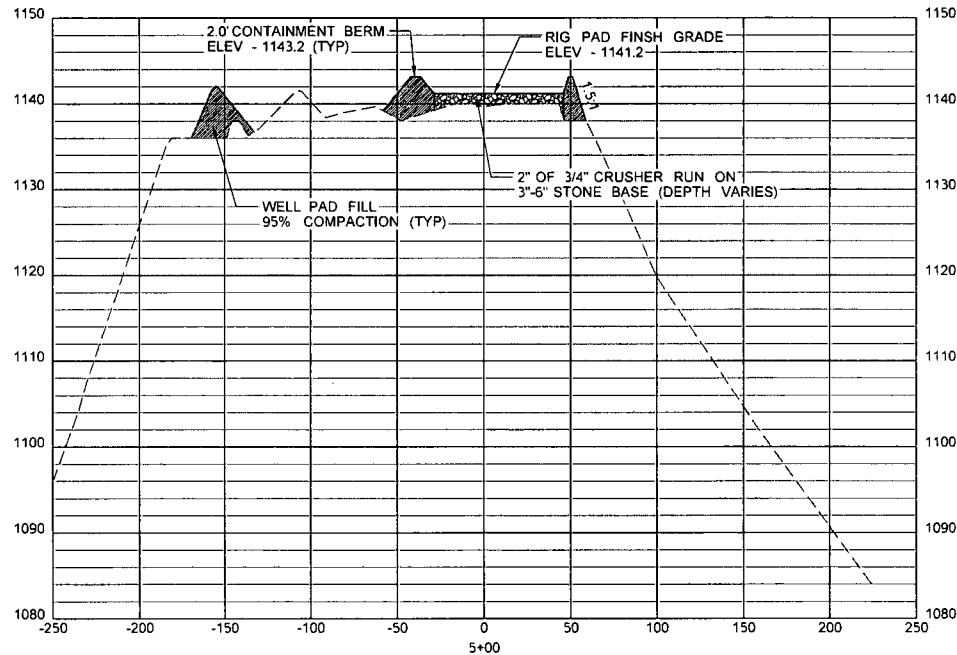
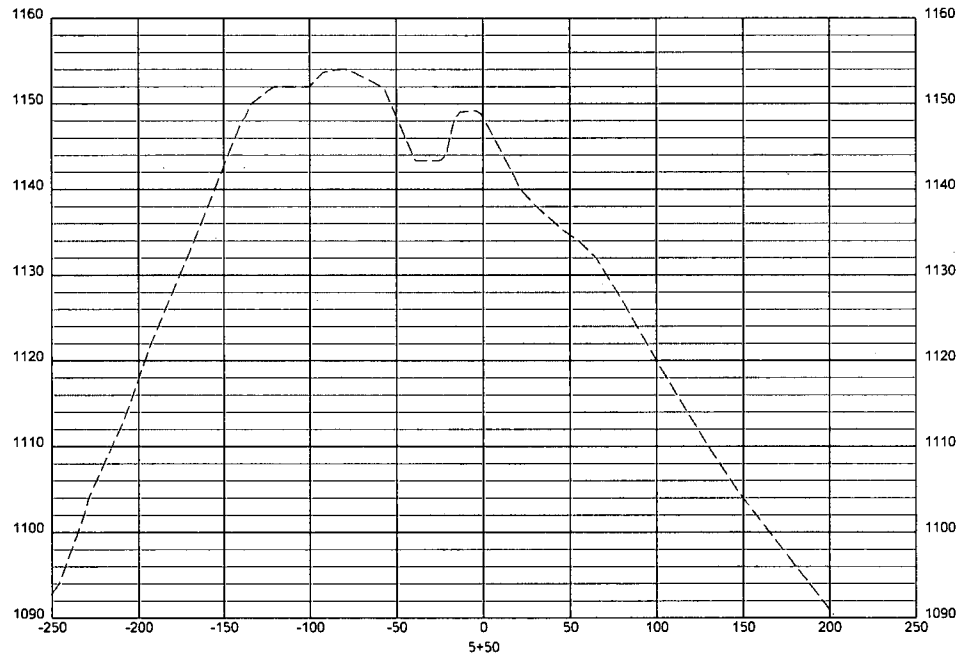


WELL PAD CROSS SECTIONS ALONG SECTION LINE A-A

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LEGEND
 - - - - - EXISTING GRADE
 ——— PROPOSED GRADE



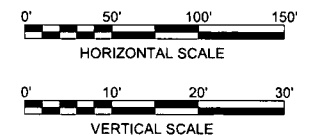


WELL PAD CROSS SECTIONS ALONG SECTION LINE A-A

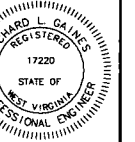
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LEGEND
 - - - - - EXISTING GRADE
 _____ PROPOSED GRADE



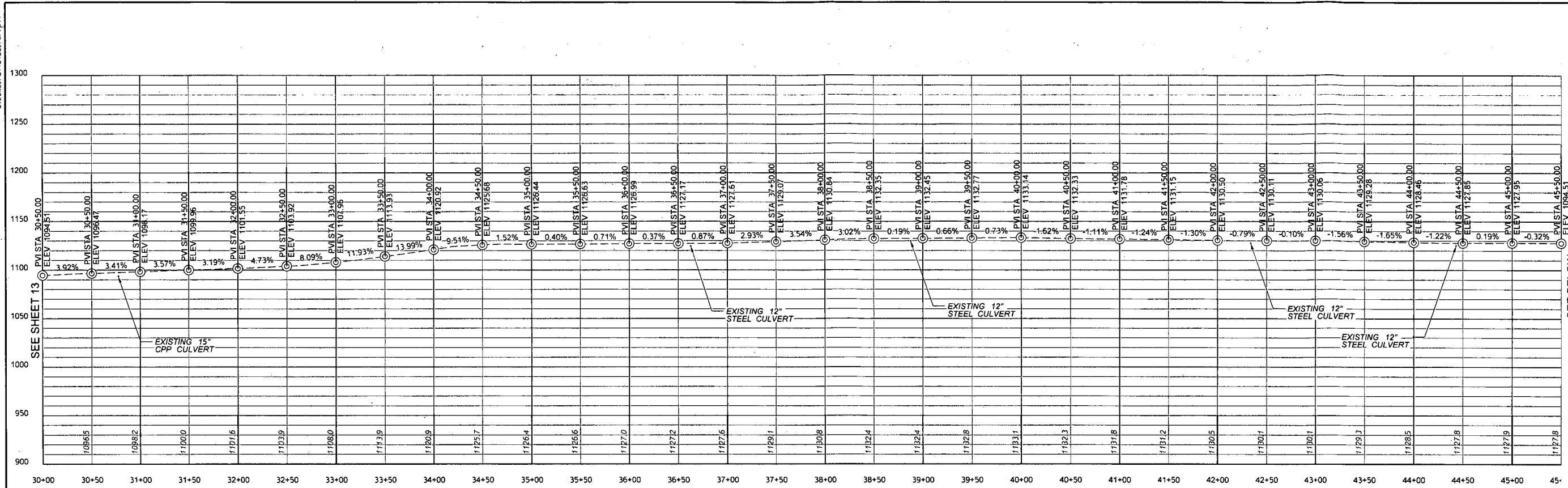
111 ELKINS STREET
 FARMINGTON, WV 26564
 PHONE: 304-871-5401



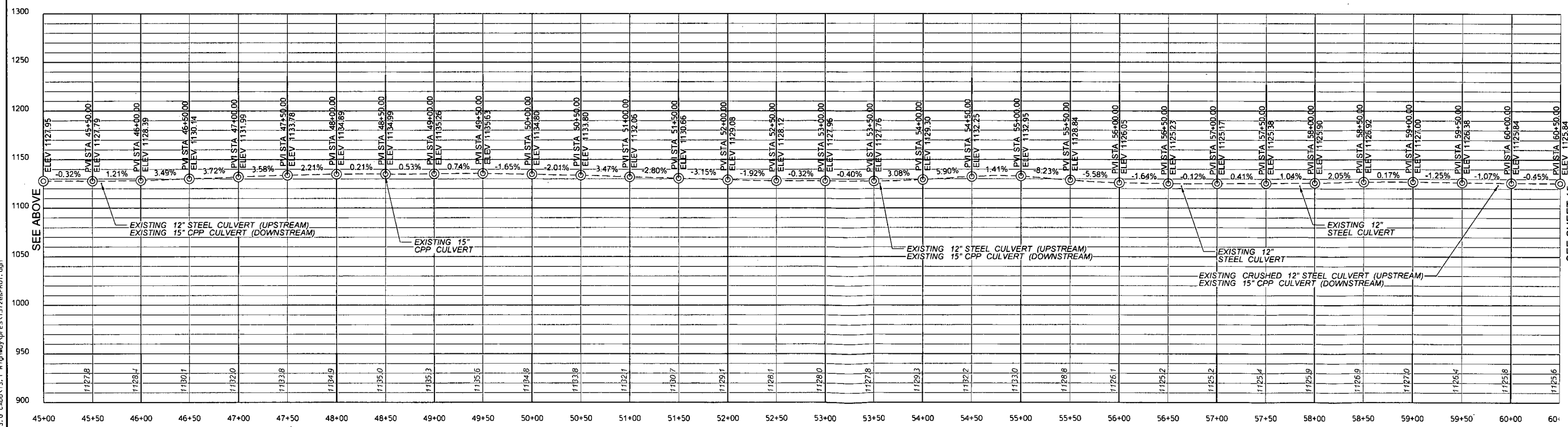
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WELL PAD CROSS SECTIONS ALONG
 SECTION LINE A-A
OXF 153 MODIFICATION
 SOUTHWEST DISTRICT
 DODDRIDGE COUNTY, WV

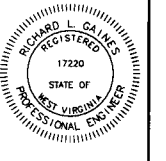
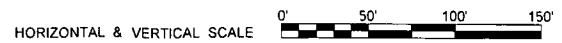
DATE: 02/02/2015
 SCALE: AS SHOWN
 DESIGNED BY: JMR
 FILE NO.: SLS-4261
 SHEET 12 OF 31
 REV:



EXISTING ACCESS ROAD TO WELL PAD PROFILE



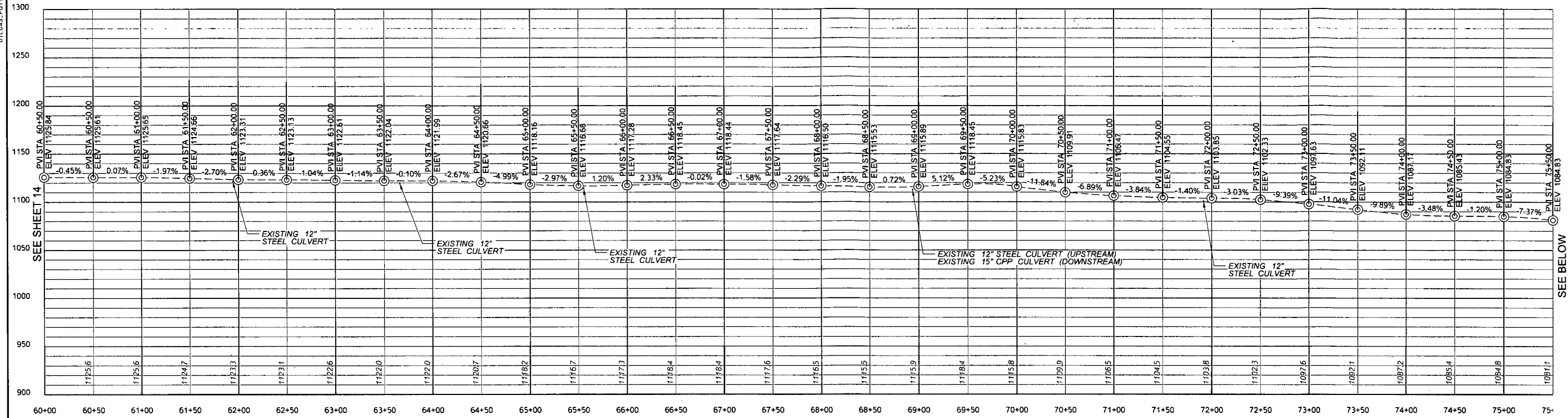
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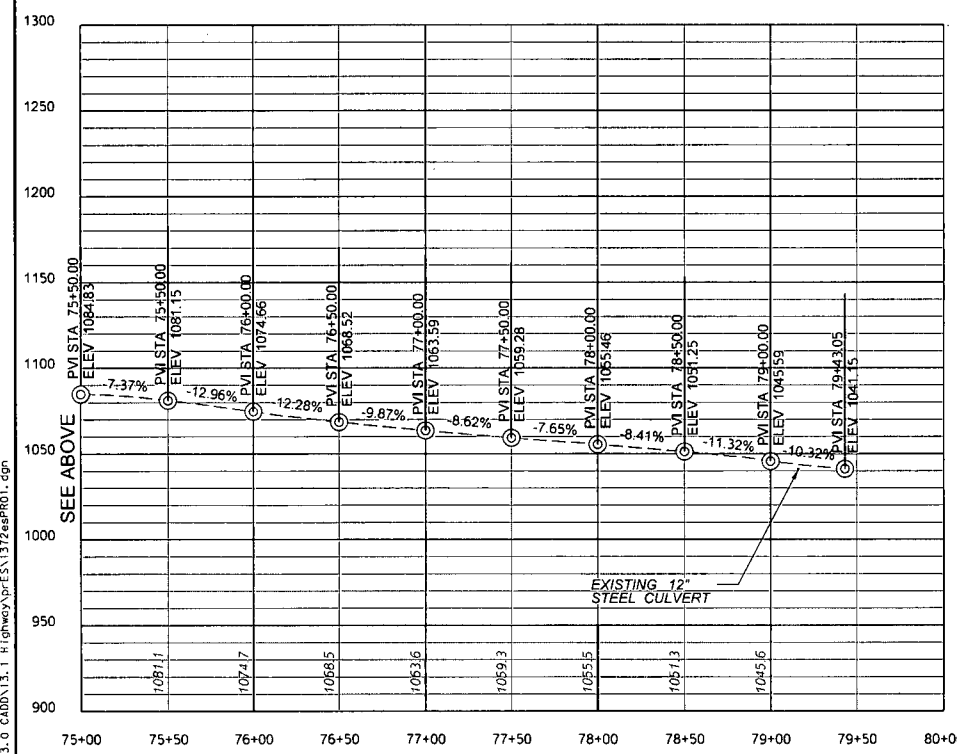
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ACCESS ROAD PROFILES
OXF 153 MODIFICATION
 SOUTHWEST DISTRICT
 DODDRIDGE COUNTY, WV

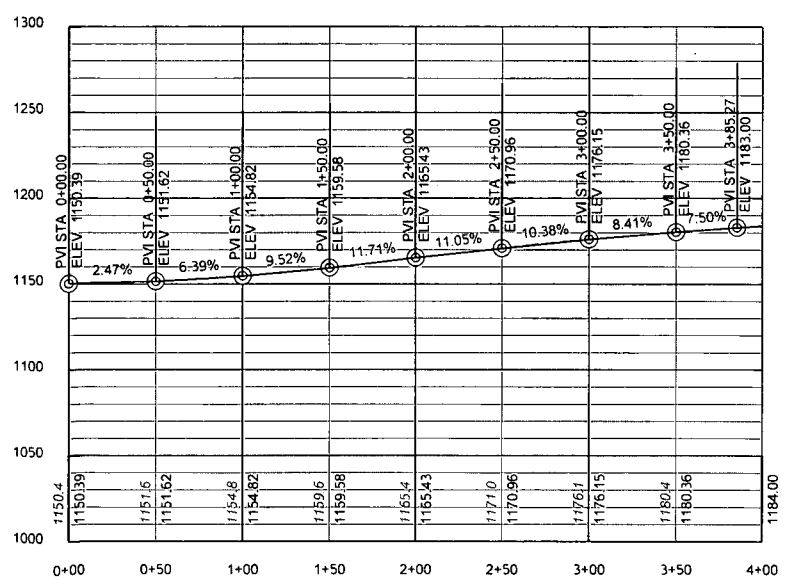
DATE: 02/02/2015
 SCALE: AS SHOWN
 DESIGNED BY: JMR
 FILE NO.: SLS-8261
 SHEET 14 OF 31
 REV:



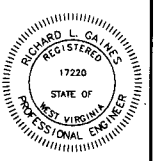
EXISTING ACCESS ROAD TO WELL PAD PROFILE



EXISTING ACCESS ROAD TO WELL PAD PROFILE



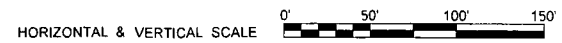
ACCESS ROAD TO FLOWBACK PIT PROFILE

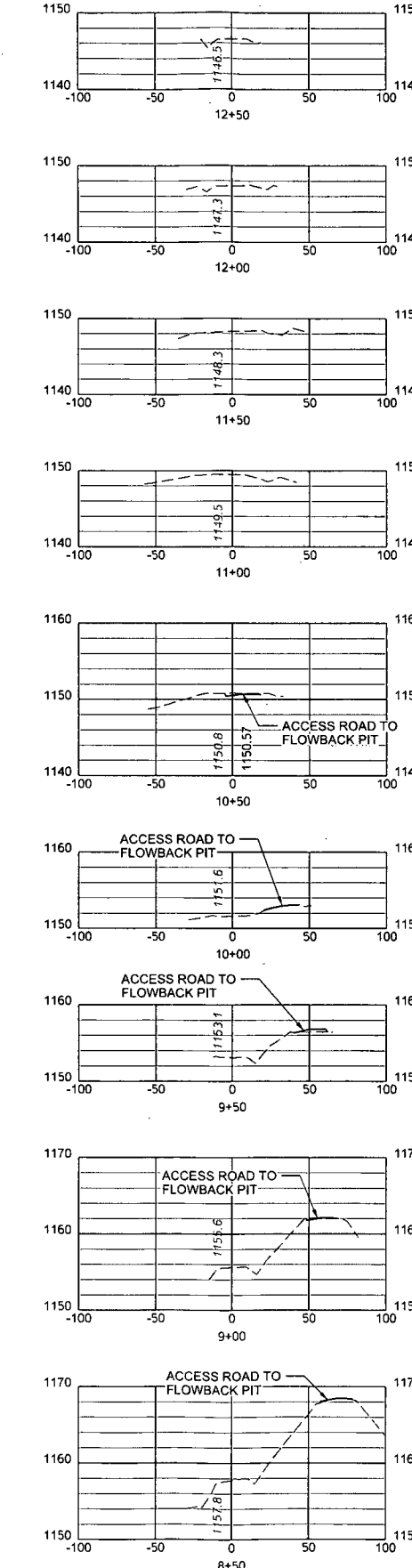
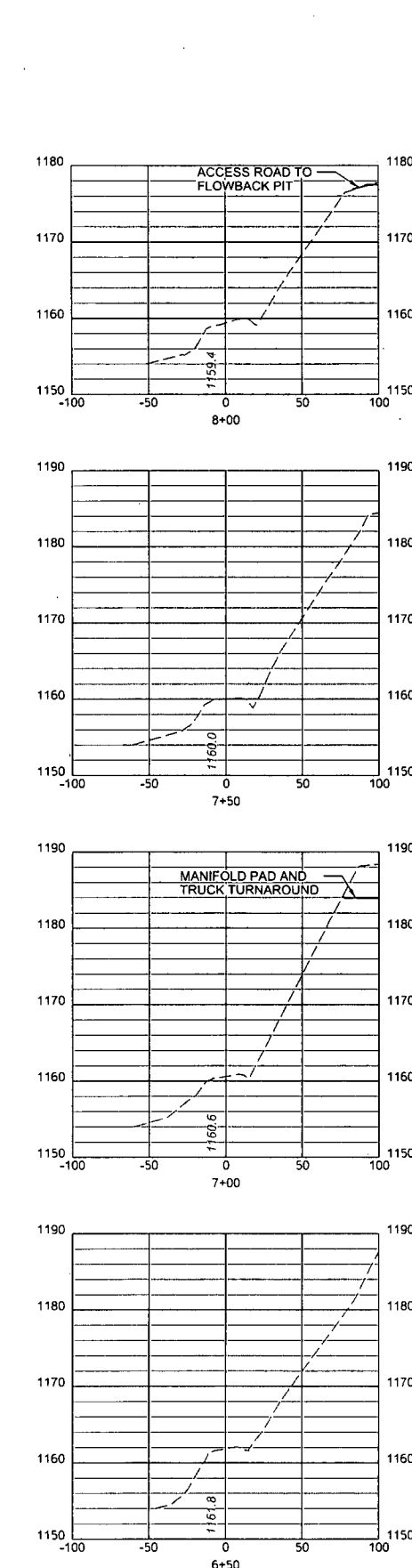
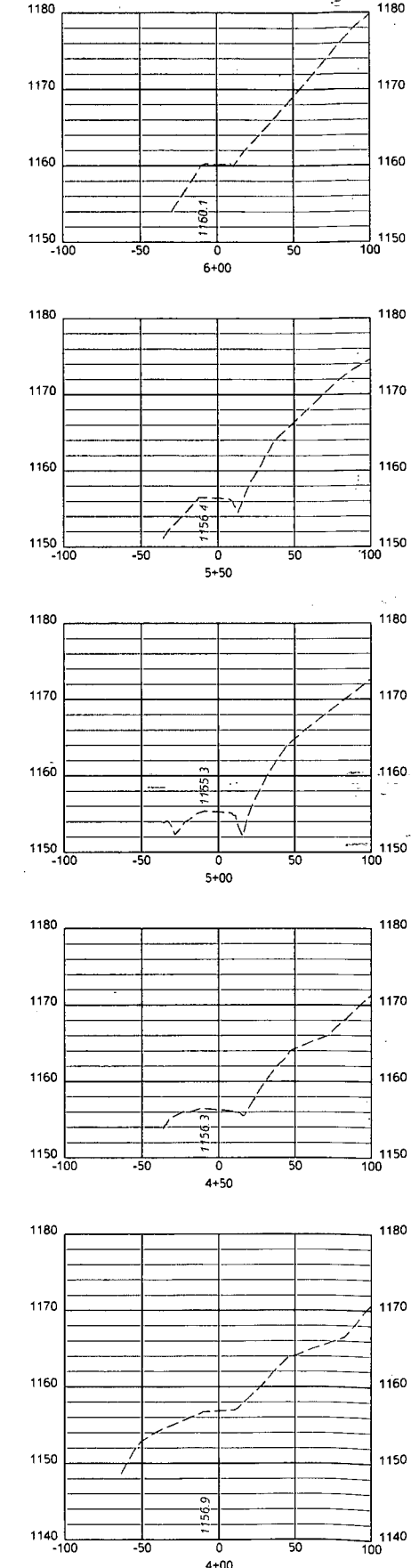
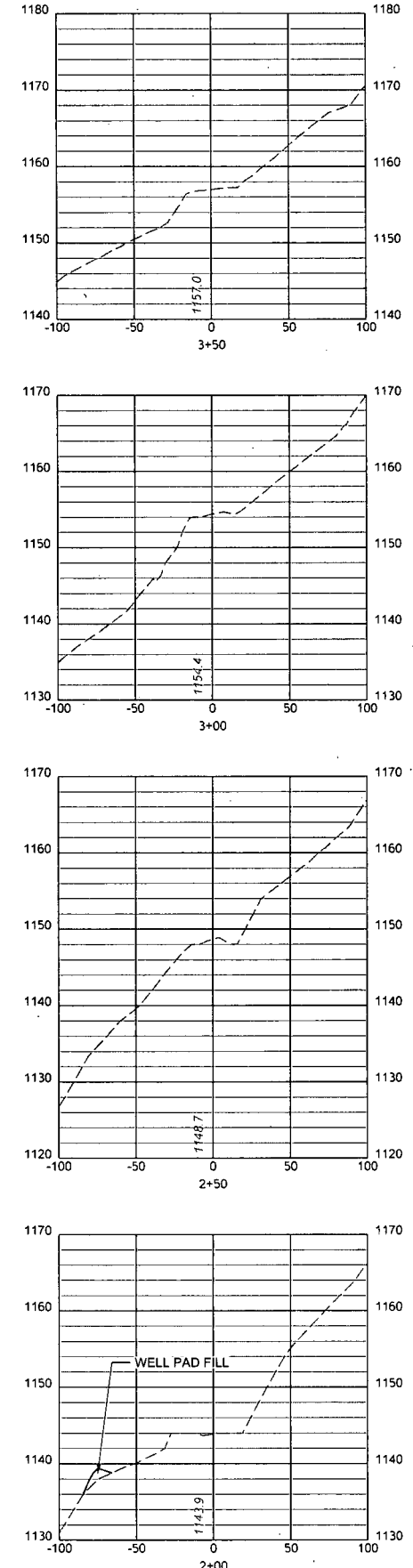
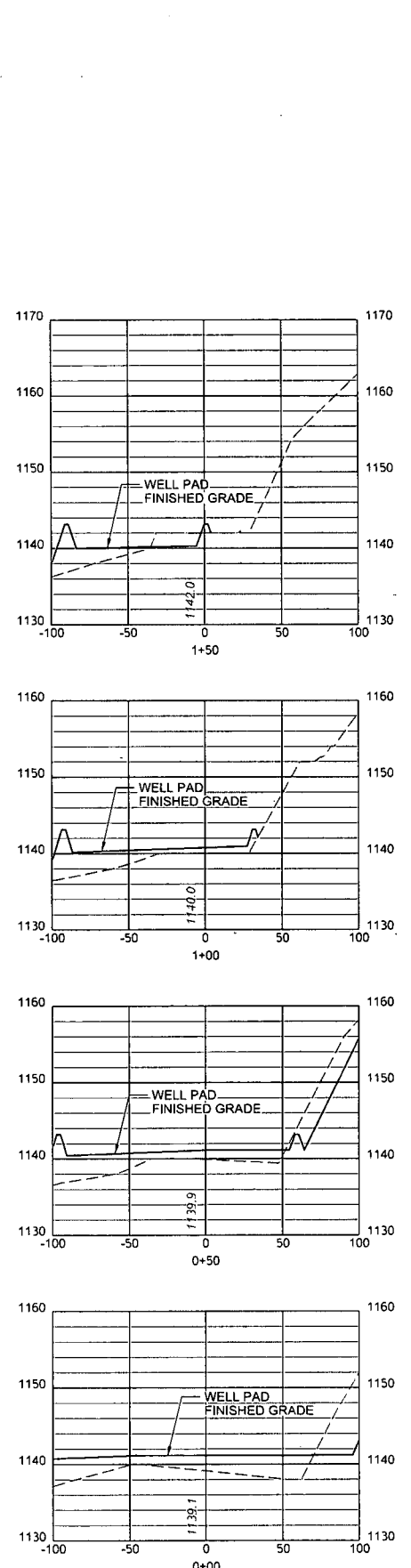


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ACCESS ROAD PROFILES
OXF 153 MODIFICATION
 SOUTHWEST DISTRICT
 DODDRIDGE COUNTY, WV

DATE: 02/02/2015
 SCALE: AS SHOWN
 DESIGNED BY: JMR
 FILE NO.: SLS-8261
 SHEET 15 OF 31
 REV:

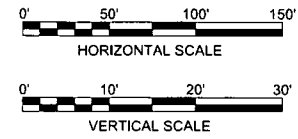




NOTE:
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EXISTING ACCESS ROAD TO WELL PAD

LEGEND
--- EXISTING GRADE
— PROPOSED GRADE



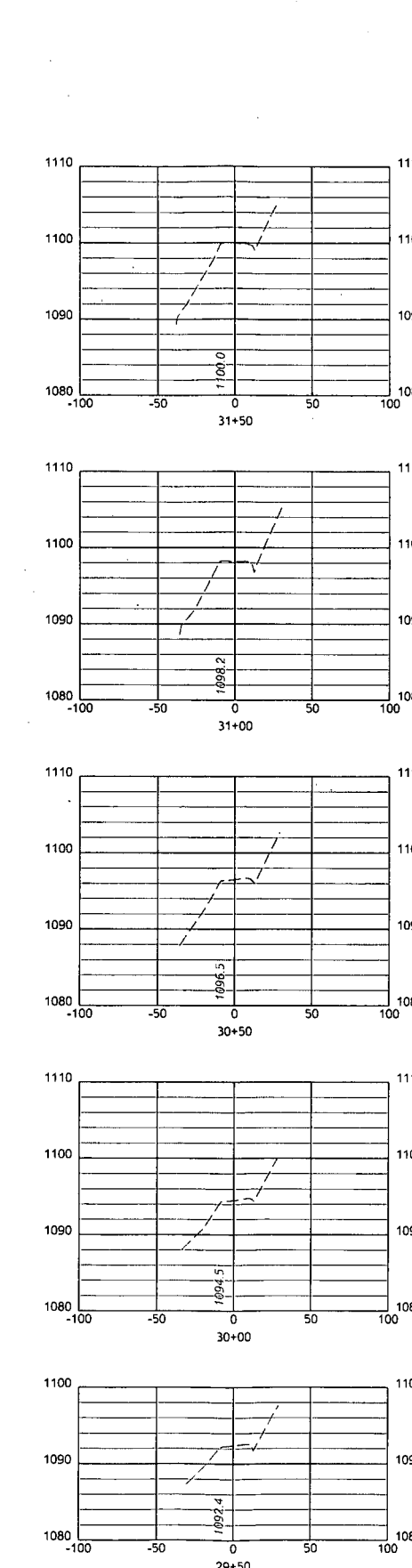
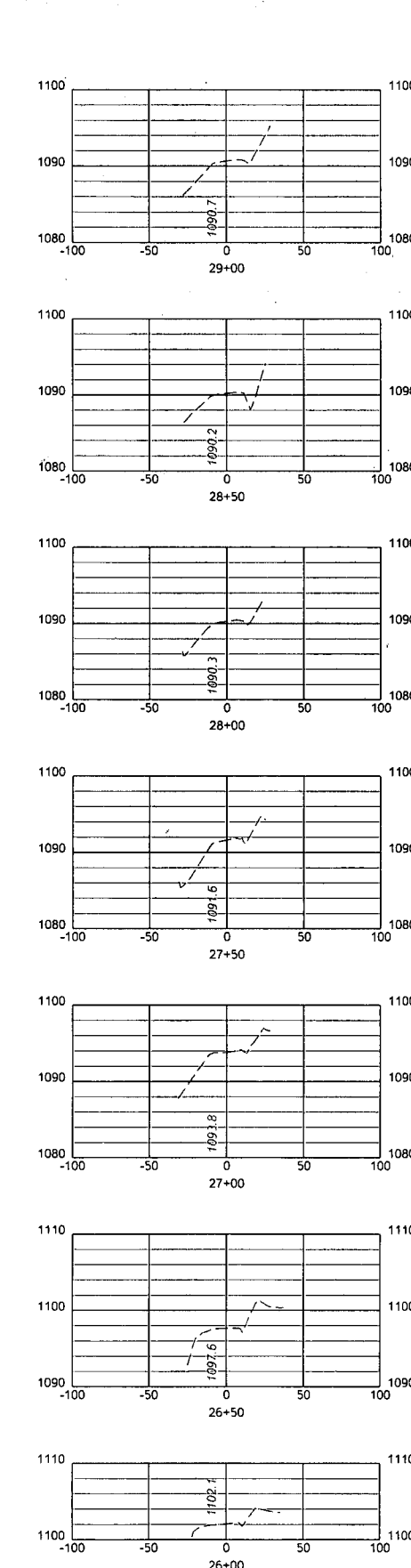
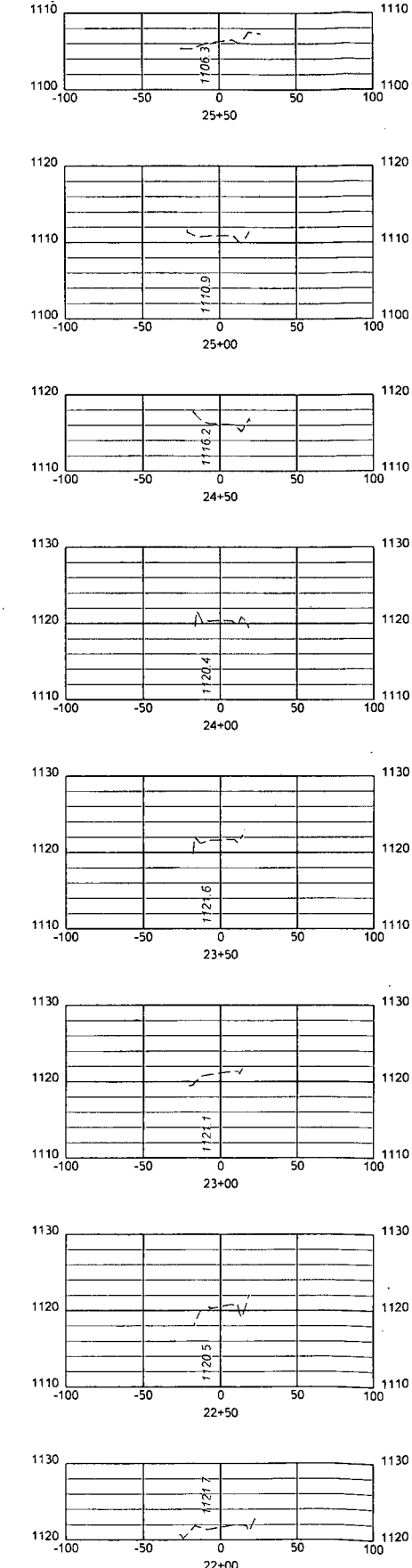
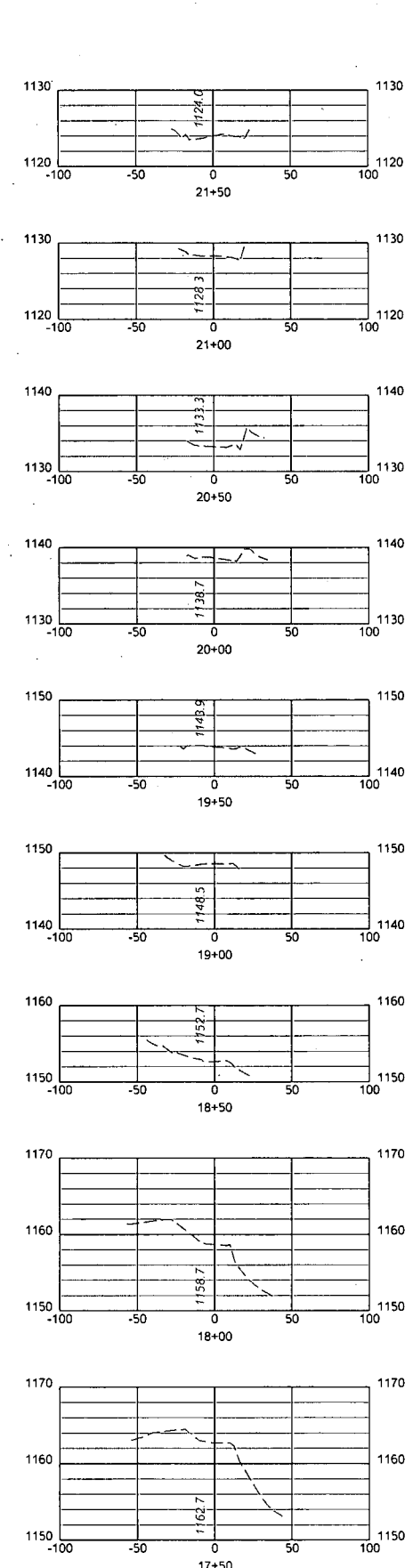
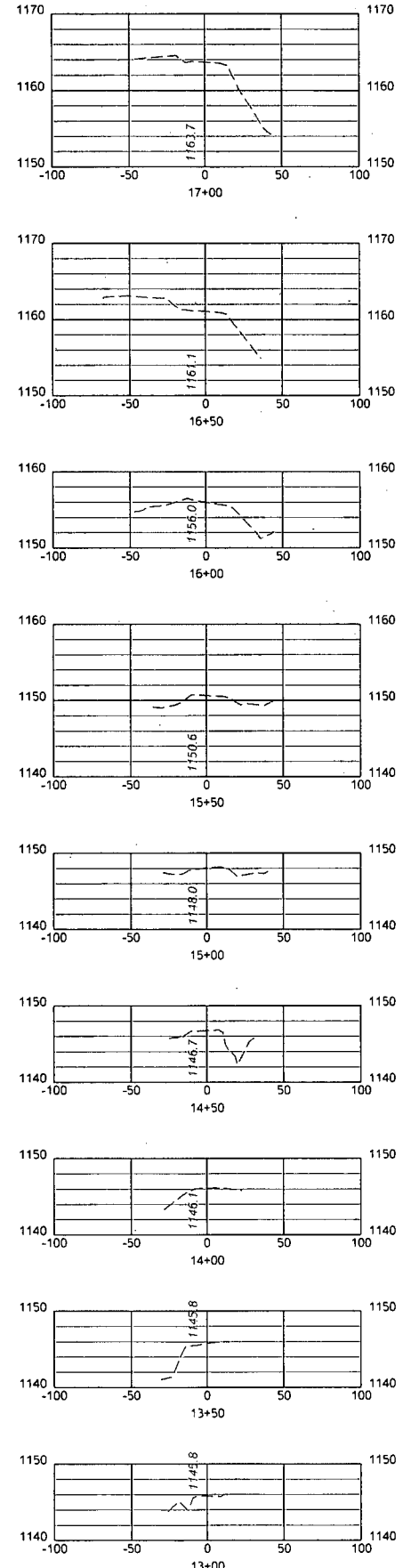
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ACCESS ROAD CROSS SECTIONS
OXF 153 MODIFICATION
SOUTHWEST DISTRICT
DODDRIDGE COUNTY, WV

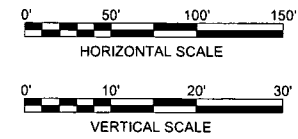
DATE: 02/02/2015
SCALE: AS SHOWN
DESIGNED BY: JMR
FILE NO.: SLS-8261
SHEET 16 OF 31
REV:



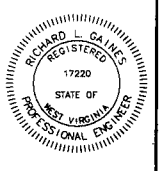
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EXISTING ACCESS ROAD TO WELL PAD

LEGEND
 - - - - - EXISTING GRADE
 _____ PROPOSED GRADE



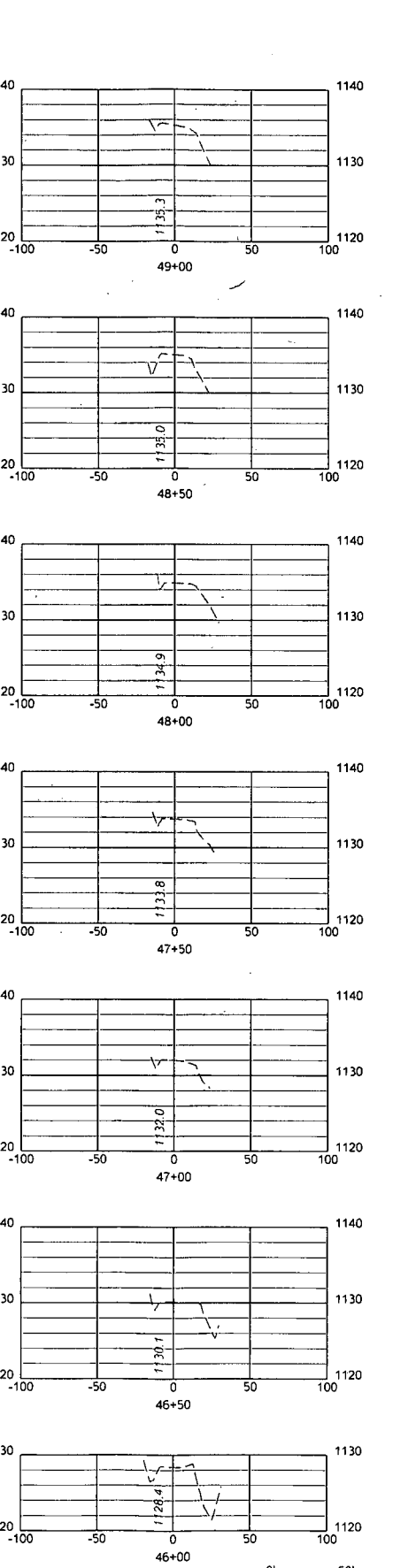
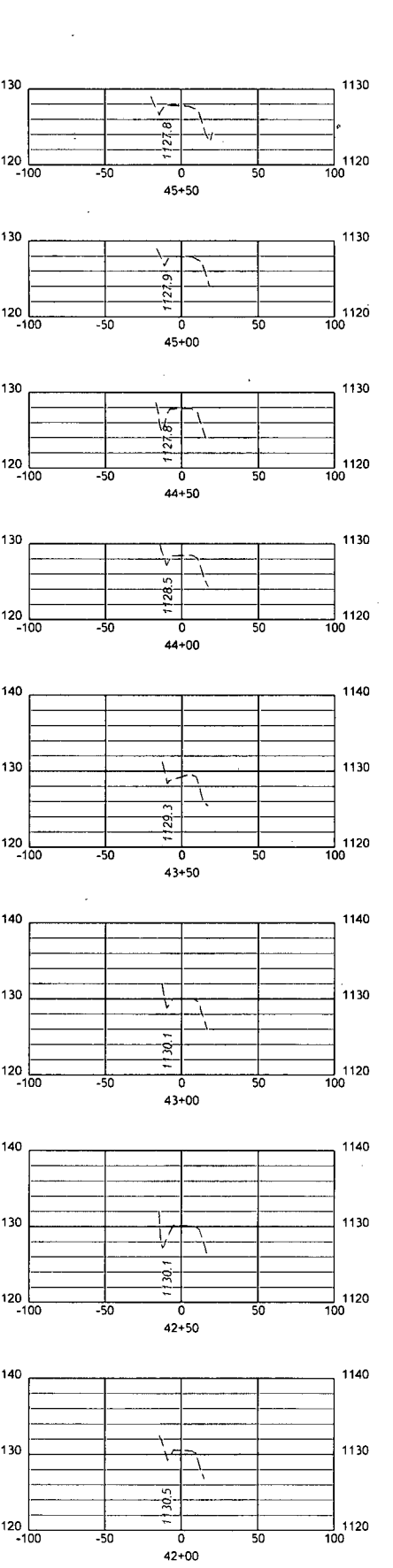
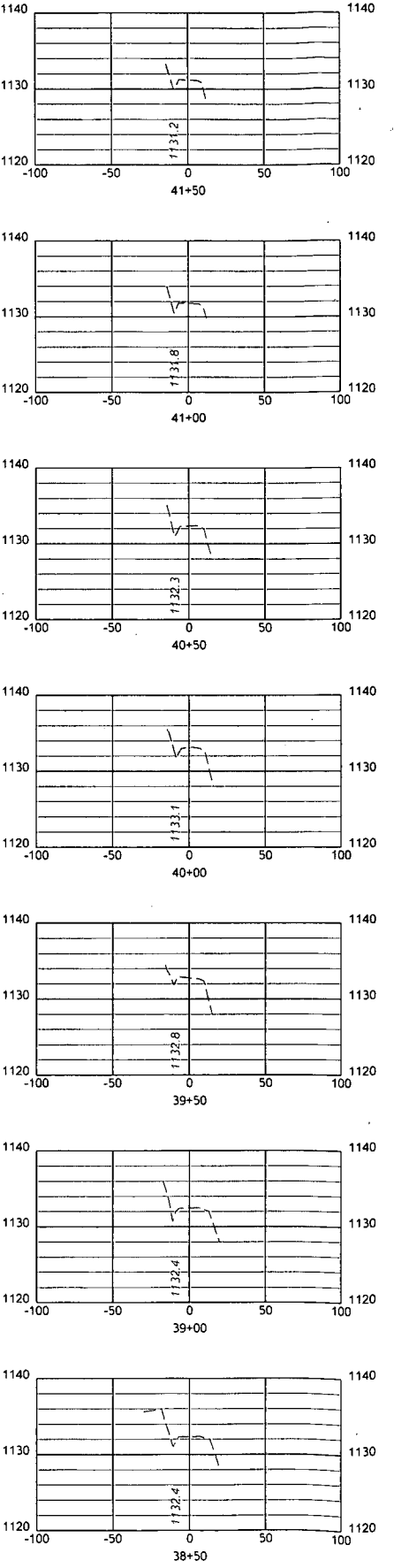
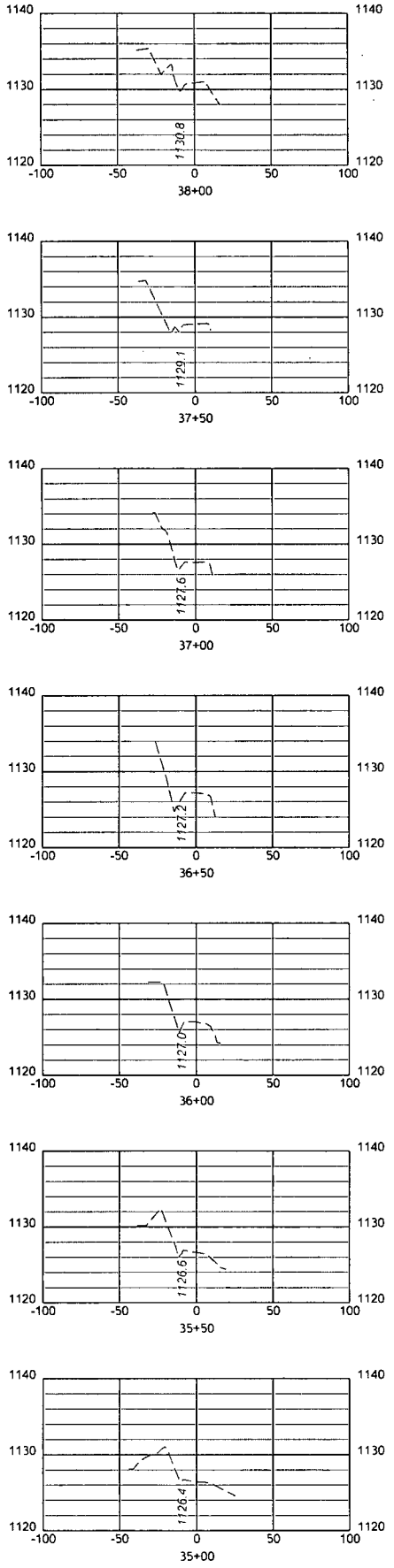
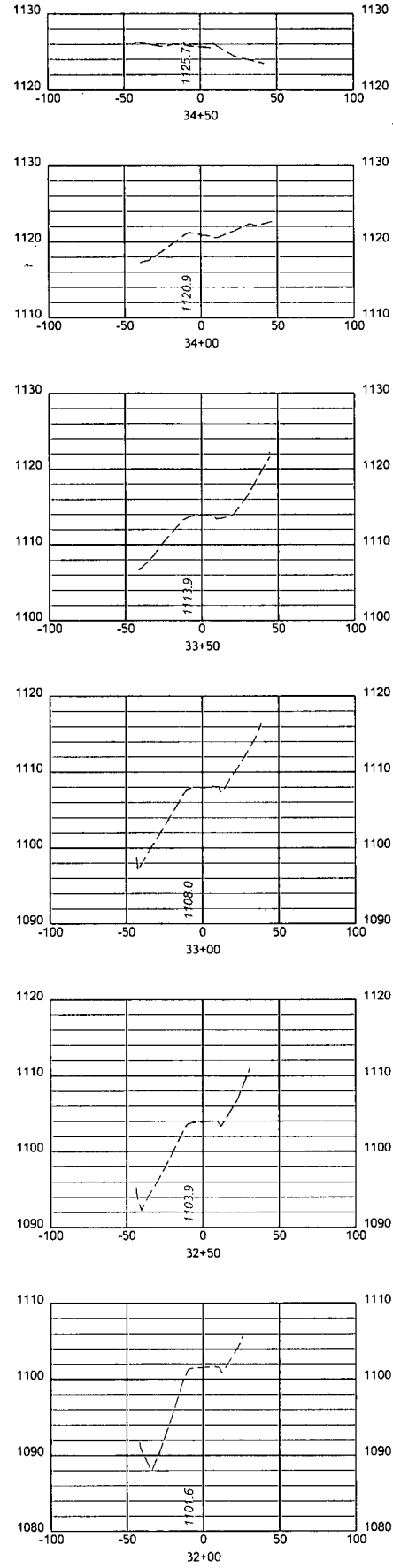
Professional Energy Consultants
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 (801) 488-8888



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ACCESS ROAD CROSS SECTIONS
OXF 153 MODIFICATION
 SOUTHWEST DISTRICT
 DODDRIDGE COUNTY, WV

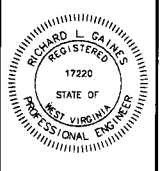
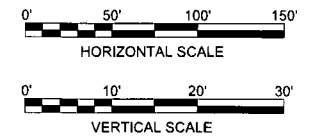
DATE: 02/02/2015
 SCALE: AS SHOWN
 DESIGNED BY: JMR
 FILE NO.: SLS-8261
 SHEET 17 OF 31
 REV:



NOTE:
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EXISTING ACCESS ROAD TO WELL PAD

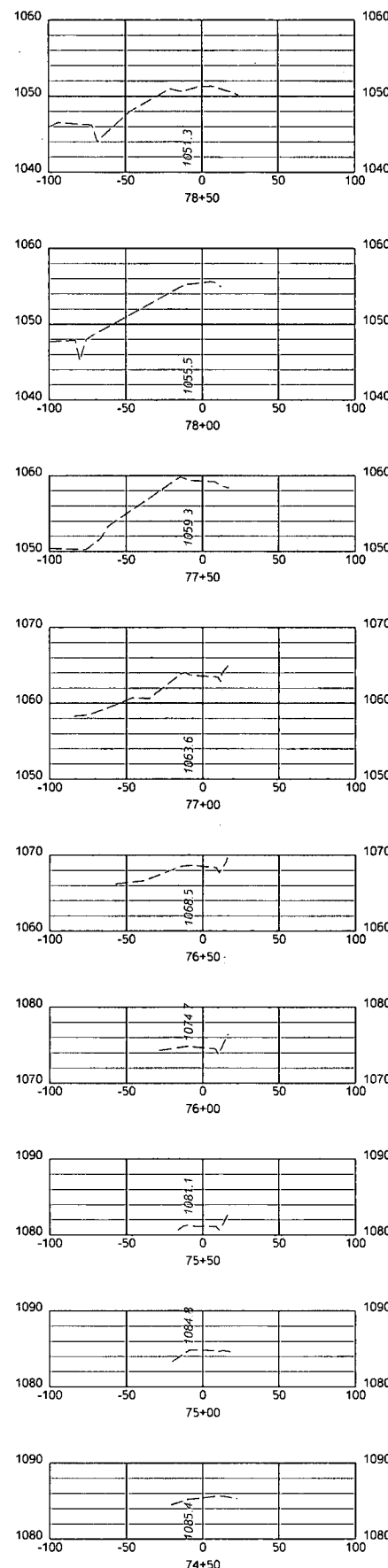
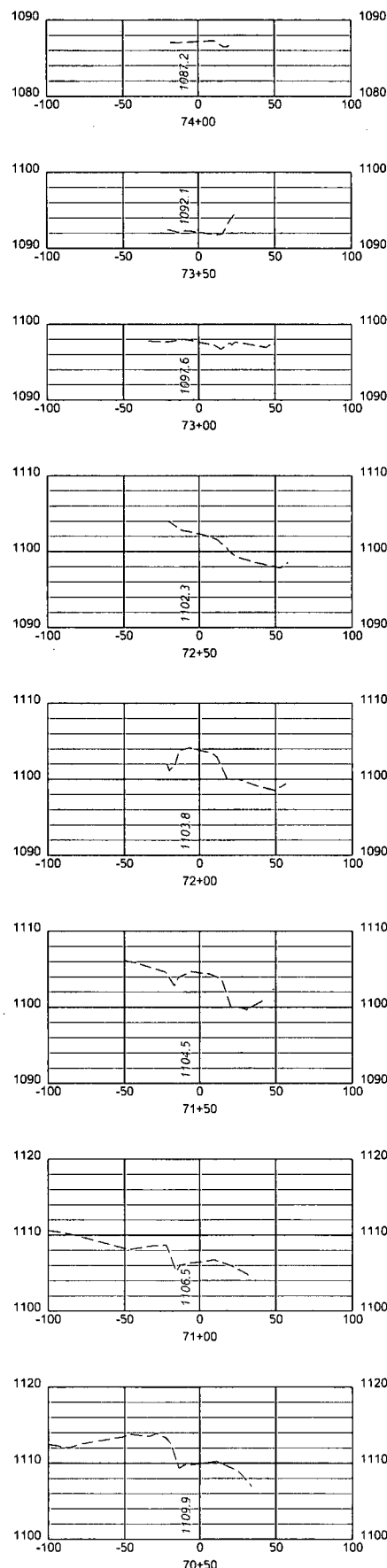
LEGEND
 - - - - - EXISTING GRADE
 _____ PROPOSED GRADE



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ACCESS ROAD CROSS SECTIONS
OXF 153 MODIFICATION
 SOUTHWEST DISTRICT
 DODDRIDGE COUNTY, WV

DATE: 02/02/2015
 SCALE: AS SHOWN
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 FILE NO.: SLS-8261
 SHEET 18 OF 31
 REV:

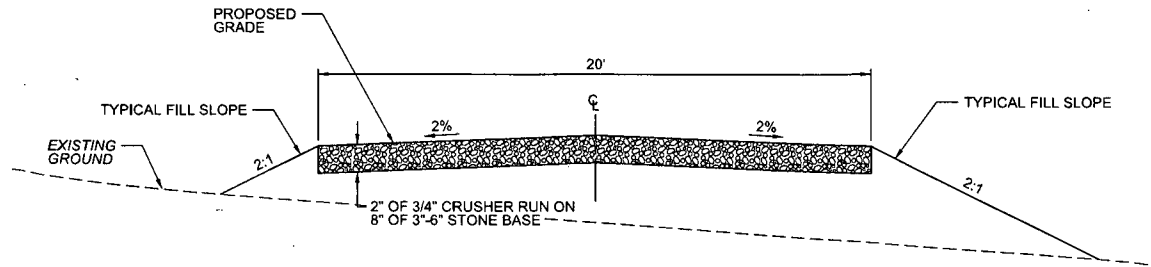


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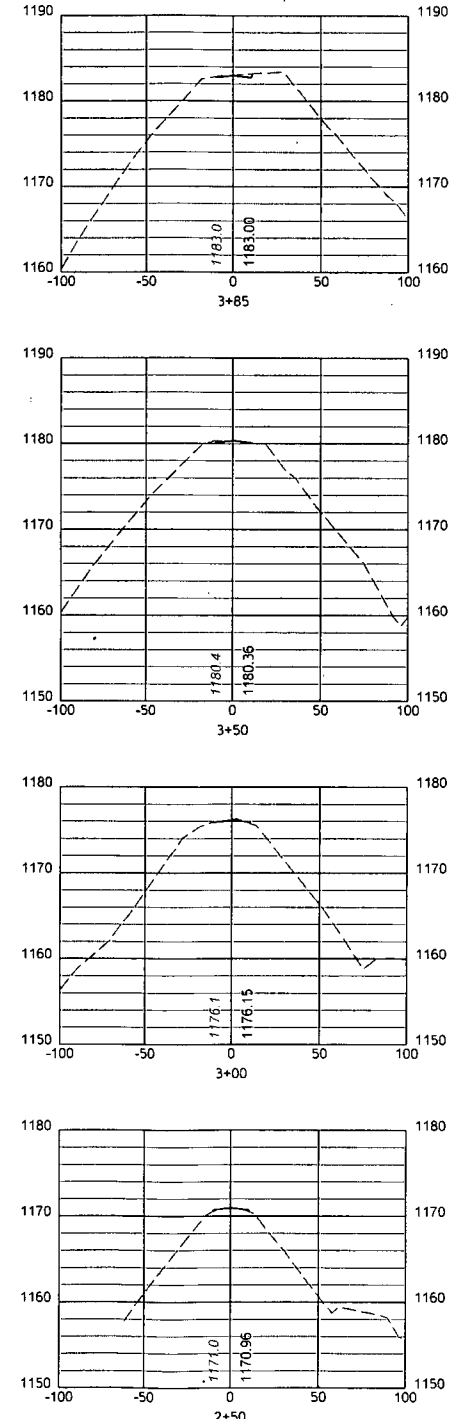
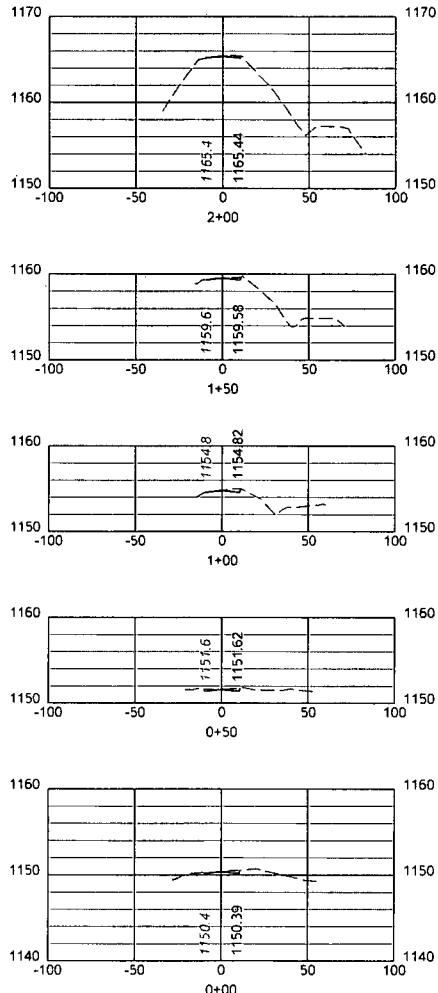
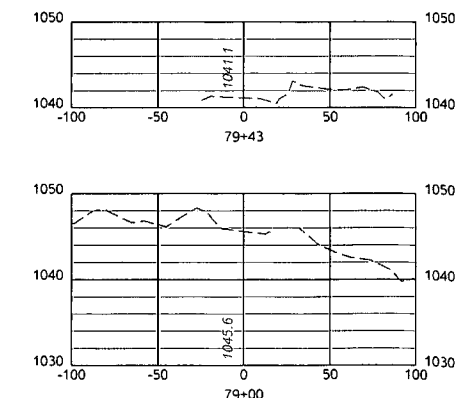
LEGEND

- - - EXISTING GRADE
- PROPOSED GRADE

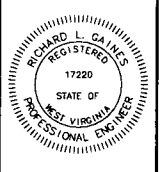
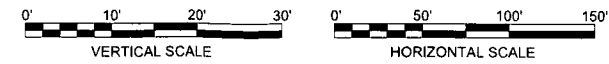


ACCESS ROAD TO FLOWBACK PIT TYPICAL SECTION - CROWNED

NOT TO SCALE
 STA 0+00 TO STA 3+85.27



ACCESS ROAD TO FLOWBACK PIT



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ACCESS ROAD CROSS SECTIONS AND TYPICAL SECTION
OXF 153 MODIFICATION
 SOUTHWEST DISTRICT
 DODDRIDGE COUNTY, WV

DATE: 02/02/2015
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 SHEET 20 OF 31
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