

**SENDER: COMPLETE THIS SECTION**

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

1. Article Addressed to: #14-128

Justin L. Henderson  
P.O. Box 1230  
Fairmont, WV 26555

2. Article Number  
(Transfer from service label)

7013 2250 0001 6914 8001

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

x Belinda Byrre

Agent  
 Addressee

B. Received by (Printed Name)

Belinda Byrre

C. Date of Delivery

03/03/14

D. Is delivery address different from item 1?  Yes

If YES, enter delivery address below:  No

R

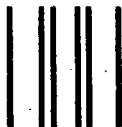
3. Service Type

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

4. Restricted Delivery? (Extra Fee)

Yes

UNITED STATES POSTAL SERVICE



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

**FILED**

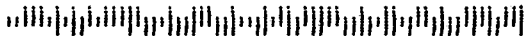
**2014 MAR -5 AM 11:25**

**BETTY A. ROGERS  
COUNTY CLERK  
DODRIDGE COUNTY, WV**

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

BETTY A ROGERS  
DODRIDGE COUNTY CLERK  
ROOM 102  
118 E COURT ST.  
WEST UNION, WV 26456

6129799



PERMIT NO. 14-128

**DODDRIDGE COUNTY  
FLOODPLAIN DEVELOPMENT  
PERMIT**

PURPOSE FOR PERMIT: County Rt 19/11 Upgrade  
CNX Gas Company, LLC

ISSUED TO \_\_\_\_\_

One Energy Drive  
ADDRESS: Jane Lew, WV 26378

PROJECT ADDRESS: Freedom Road

ISSUED BY: Ralph Sander

DATE: 3-11-14

CONSTRUCTION MUST START WITHIN 180 DAYS FROM ISSUED DATE. PERMIT EXPIRES IN 12 MONTHS FROM ISSUED DATE. IF EXTENTION IS NEEDED A REQUEST MUST BE MADE IN WRITING STATING A REASON FOR THE EXTENTION.

THIS PERMIT MUST BE POSTED ON THE PREMISES IN A CONSPICUOUS PLACE SO AS TO BE CLEARLY VISIBLE FROM THE STREET.

# Doddridge County, West Virginia

RECEIPT NO: 1580

DATE: 2014/03/05

FROM: SMITH LAND SURVEYING INC

AMOUNT: \$ 1,783.00

ONE THOUSAND SEVEN HUNDRED EIGHTY THREE DOLLARS AND 00 CENTS

FOR: #14-128 CNX GAS CO LLC  
OXFD/1 COUNTY RT 19/11 UPGRADE

00000017886 FP-BUILDING PERMITS

020-318

TOTAL: \$1,783.00

MICHAEL HEADLEY

SHERIFF & TREASURER

MEC

CLERK

Customer Copy

# Doddridge County, West Virginia

RECEIPT NO: 1579

DATE: 2014/03/05

FROM: SMITH LAND SURVEYING INC

AMOUNT: \$ 500.00

FIVE HUNDRED DOLLARS AND 00 CENTS

FOR: #14-128 CNX GAS CO LLC  
OXFD/A COUNTY RT 19/11 UPGRADE

00000017879 FP-BUILDING PERMITS

020-318

TOTAL: \$500.00

MICHAEL HEADLEY

SHERIFF & TREASURER

MEC

CLERK

Customer Copy

Legal Advertisement:  
Doddridge County  
Floodplain Permit Application

Please take notice that on the 18<sup>th</sup> day of February, 2014

**CNX GAS COMPANY, LLC**

**OXFD 11 COUNTY ROUTE 19/11 UPGRADE**

**PRERMIT # 14-128**

filed an

application for a Floodplain Permit to develop land located at or  
about: **SURFACE OWNERS: WVDOH DISTRICT 4,  
SOUTH WEST DISTRICT – APPROX. 1.005 MILES OF FREEDOM ROAD**

The Application is on file with the Clerk of the County Court and  
may be inspected or copied during regular business hours.

Any interested persons who desire to comment shall present  
the same in writing by **March 10, 2014.**

Delivered to the:

Clerk of the County Court

118 E. Court Street, West Union, WV 26456.

Beth A Rogers, Doddridge County Clerk

Ralph Sandora, Jr., Doddridge County Flood Plain Manager

TRANSACTION REPORT

P. 01

FEB-17-2014 MON 10:48 AM

FOR: DODDRIDGE CO. CLERK

304 873 1840

SEND

| DATE    | START    | RECEIVER   | TX TIME | PAGES | TYPE   | NOTE       | M#  | DP |
|---------|----------|------------|---------|-------|--------|------------|-----|----|
| FEB-17  | 10:47 AM | 3048731600 | 38"     | 1     | FAX TX | OK         | 890 |    |
| TOTAL : |          |            |         |       |        | 38S PAGES: | 1   |    |

Legal Advertisement:

Doddridge County

Floodplain Permit Application

Please take notice that on the 18<sup>th</sup> day of February, 2014

CNX GAS COMPANY, LLC

OXFD 11 COUNTY ROUTE 19/11 UPGRADE

PRERMIT # 14-127 128

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application for a Floodplain Permit to develop land located at or

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118 E. Court Street, West Union, WV 26456.

Beth A Rogers, Doddridge County Clerk

Ralph Sandora, Jr., Doddridge County Flood Plain Manager



P.O. BOX 150, GLENVILLE, WV 26351  
 (304) 462-5634 • FAX (304) 462-5656

# LETTER OF TRANSMITTAL

|                                     |                 |
|-------------------------------------|-----------------|
| DATE<br>2/7/14                      | JOB NO.<br>8126 |
| ATTENTION                           |                 |
| RE:<br>OXFD 11 CR 19/11 Improvement |                 |
|                                     |                 |
|                                     |                 |
|                                     |                 |
|                                     |                 |
|                                     |                 |
|                                     |                 |

TO: Doddridge County Floodplain Manager  
118 East Court Street  
West Union, WV 26456

> WE ARE SENDING YOU  Attached  Under separate cover via \_\_\_\_\_ the following items:

- Shop drawings   
  Prints   
  Plans   
  Samples   
  Specifications  
 Copy of letter   
  Change order   
  \_\_\_\_\_

| COPIES | DATE | NO. | DESCRIPTION                                                                           |
|--------|------|-----|---------------------------------------------------------------------------------------|
| 1      |      |     | Doddridge County Floodplain Permit for CNX Gas Company's OXFD 11 CR 19/11 Improvement |
| 1      |      |     | SLS Check #17879 for Floodplain Permit Fees                                           |
|        |      |     |                                                                                       |
|        |      |     |                                                                                       |
|        |      |     |                                                                                       |
|        |      |     |                                                                                       |
|        |      |     |                                                                                       |
|        |      |     |                                                                                       |

THESE ARE TRANSMITTED as checked below:

- For approval   
  Approved as submitted   
  Resubmit \_\_\_\_\_ copies for approval  
 For your use   
  Approved as noted   
  Submit \_\_\_\_\_ copies for distribution  
 As requested   
  Returned for corrections   
  Return \_\_\_\_\_ corrected prints  
 For review and comment   
  \_\_\_\_\_  
 FOR BIDS DUE \_\_\_\_\_ 20 \_\_\_\_\_  PRINTS RETURNED AFTER LOAN TO US

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

COPY TO SLS Files; CNX Gas Company, LLC

SIGNED: Deanna McVicker

If enclosures are not as noted, kindly notify us at once.



Permit # 14-128



PROFESSIONAL ENERGY CONSULTANTS

A DIVISION OF SMITH LAND SURVEYING, INC.

February 07, 2013

Doddridge County Flood Plain Manager  
Floodplain Coordinator  
Doddridge County Commission  
118 East Court Street  
West Union, WV 26456

RE: CNX Gas Company, LLC  
OXFD 11 County Route 19/11 Upgrade

To whom it may concern,

On behalf of CNX, SLS is submitting this letter pursuant to the requirements of the Doddridge County Floodplain Ordinance to apply for a Floodplain Permit. This permit is for County Route 19/11, Freedom Road, in Southwest District, Doddridge County. This project involves minor roadway widening, drainage upgrades, and a 12" aggregate overlay along approximately 1.005 miles of Freedom Road. The coordinates at the intersection of County Route 19/11 and 54/1 is latitude 39.17870 longitude 80.76139 (NAD83).

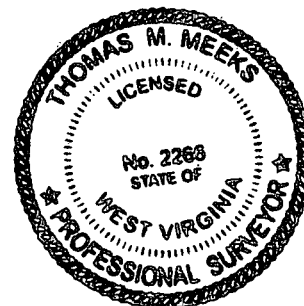
A small portion of this project, approximately 700 linear feet, is located within a flood plain. However, the map appears to be inaccurate as the roadway elevation is approximately 14'-16' above the stream elevation. This proposed roadway work should have no effect on future flooding and should have no impact on the height of future 100-year floods. With the exception of the aggregate overlay, the line and grade of the existing roadway will not be changed.

Please see the attached project location map, site plans, FEMA firmette, and WV Flood Tool Map.

On behalf of CNX, SLS is requesting your approval to begin construction on the OXFD 11 CR 19/11 Road Upgrade. Please feel to contact Thomas Meeks with SLS at 304-462-5634 or [tmeeks@slssurveys.com](mailto:tmeeks@slssurveys.com), or Amanda Wright with CNX at 304-884-2027 or [AmandaWright@consolenergy.com](mailto:AmandaWright@consolenergy.com) should you have any questions or comments.

Respectfully submitted,

Thomas M. Meeks, P.S.  
Surveying Manager



cc: Amanda Wright/CNX Gas Company LLC

P.O. Box 150, 226 West Main Street, Glenville, WV 26351  
T: (304)-462-5634 F: (304)-462-5656

56065 Dilles Bottom Road, Shadyside, OH 43947  
T: (740)-671-9911

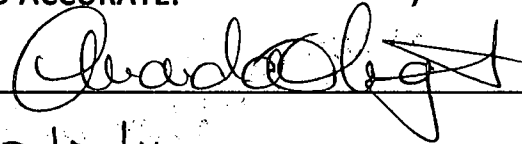
CNX Gas Company, LLC  
OXFD 11 County Route  
19/14 upgrade  
Permit # 14-128

**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 \_\_\_\_\_

2/17/14

**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: CNX Gas Company, LLC

ADDRESS: One Energy Drive Jane Lew, WV 26378

TELEPHONE NUMBER: 304-884-2027

**BUILDER'S NAME:** CNX Gas Company, LLC

**ADDRESS:** One Energy Drive Jane Lew, WV 26378

**TELEPHONE NUMBER:** 304-884-2027

**ENGINEER'S NAME:** Chris Robinson, P.E., Stahl Sheaffer Engineering, LLC

**ADDRESS:** 5000 Waterdam Plaza Dr., Suite 120, McMurray, PA 15317

**TELEPHONE NUMBER:** 724-960-1111

**PROJECT LOCATION:** The site is located approximately at the intersection of County Route 19/11 and 54/1.

**NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT)** WVDOH District 4 (Work to be completed is roadwork on CR 19/11)

**ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT)** \_\_\_\_\_

I-79 and Meadowbrook Road, Clarksburg, WV 26302

**DISTRICT:** Southwest District

**DATE/FROM WHOM PROPERTY**

**PURCHASED** N/A

**LAND BOOK DESCRIPTION:** N/A

**DEED BOOK REFERENCE:** N/A

**TAX MAP REFERENCE:** N/A

**EXISTING BUILDINGS/USES OF PROPERTY:** Existing County Road

**NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY** N/A

**ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY** N/A

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**

| <u>ACTIVITY</u>                                  | <u>STRUCTURAL TYPE</u>                                    |
|--------------------------------------------------|-----------------------------------------------------------|
| <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 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)  
Minor widening and aggregate overlay of existing roadway

**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 \$ 85,000**

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

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

\_\_\_\_\_

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: \_\_\_\_\_

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

\_\_\_\_\_

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

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

\_\_\_\_\_

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

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

\_\_\_\_\_

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

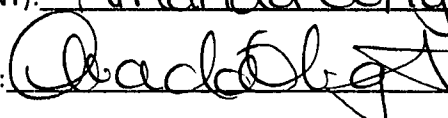
ADDRESS: \_\_\_\_\_

\_\_\_\_\_

**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): Amanda Wright  
SIGNATURE:  DATE: 2/7/14

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: 225C  
Dated: 10-11-11

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.

FBFM Panel No. \_\_\_\_\_

Dated \_\_\_\_\_

See section 4 for additional instructions.

SIGNED 

DATE 3-7-74

**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 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 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:

---

---

---

**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 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

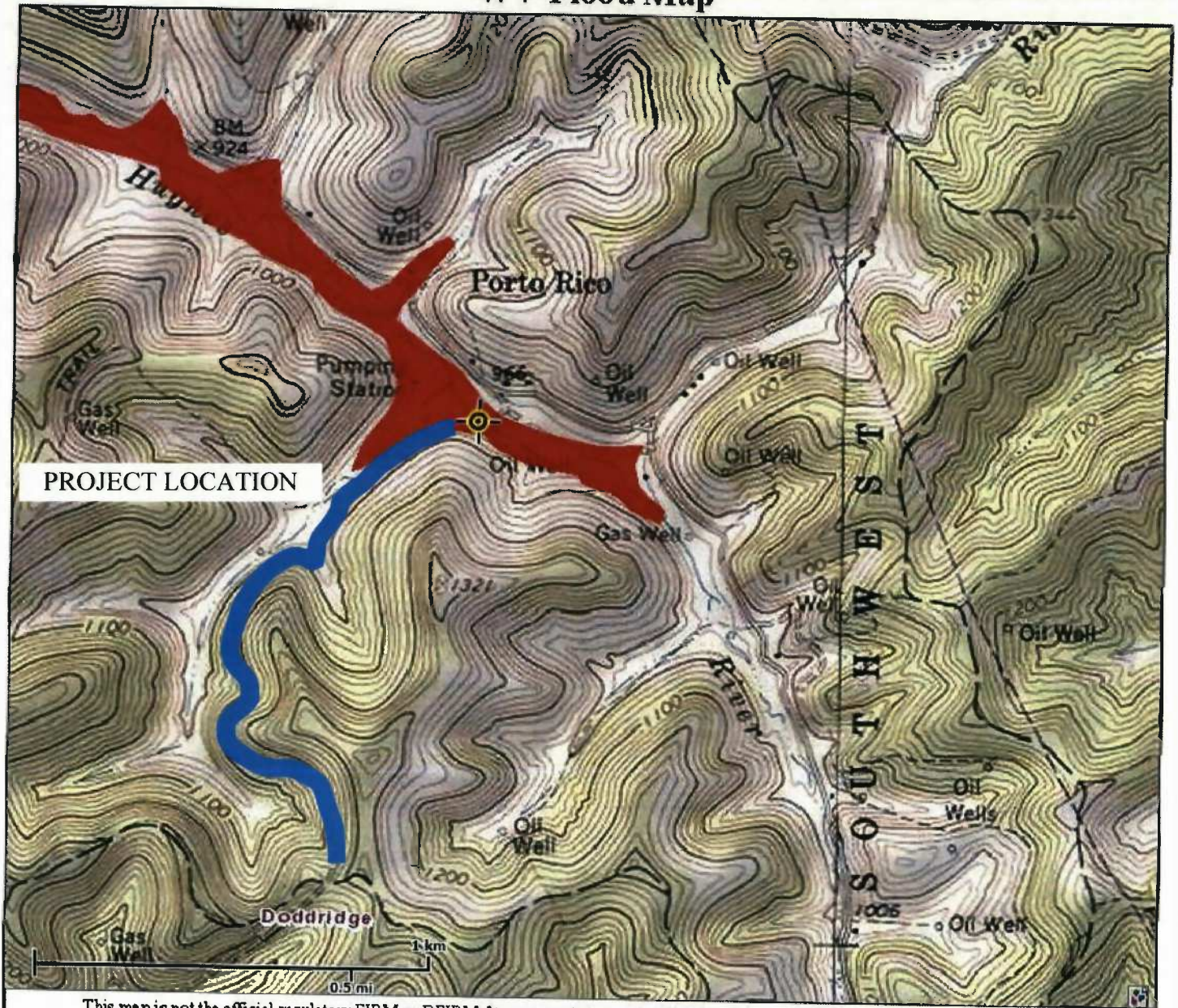
**OWNER'S ADDRESS:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**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** \_\_\_\_\_

# WV Flood Map



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

Map Created on 1/16/2014



Location of the mouse click



**Flood Hazard Zone**  
(1% annual chance floodplain)

### User Notes:

OXFD 11 ACCESS #8126

### 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.nsc.fema.gov](http://www.nsc.fema.gov).

WV Flood Tool is supported by FEMA, WV NFIP Office, and WV GIS Technical Center (<http://www.MapWV.gov/flood>)

**Flood Hazard Area:** Selected site is **WITHIN** the FEMA 100-year floodplain.

**Elevation:** About 927 feet

**Location (long, lat):** 80.760531 W, 39.178706 N

**Location (UTM 17N):** (520684, 4336635)

**FEMA Issued Flood Map:** 54017C0225C

**Contacts:** Doddridge County

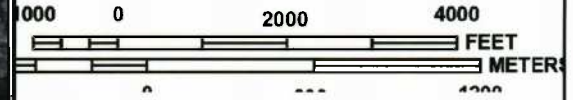
**CRS Information:** No CRS information available

**Parcel Number:**

# DODDRIDGE COUNTY UNINCORPORATED AREAS 540024



MAP SCALE 1" = 2000'



NFIP

PANEL 0225C

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

PANEL 225 OF 325  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

**CONTAINS:**

| COMMUNITY        | NUMBER | PANEL | SUFFIX |
|------------------|--------|-------|--------|
| DODDRIDGE COUNTY | 540024 | 0225  | 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.

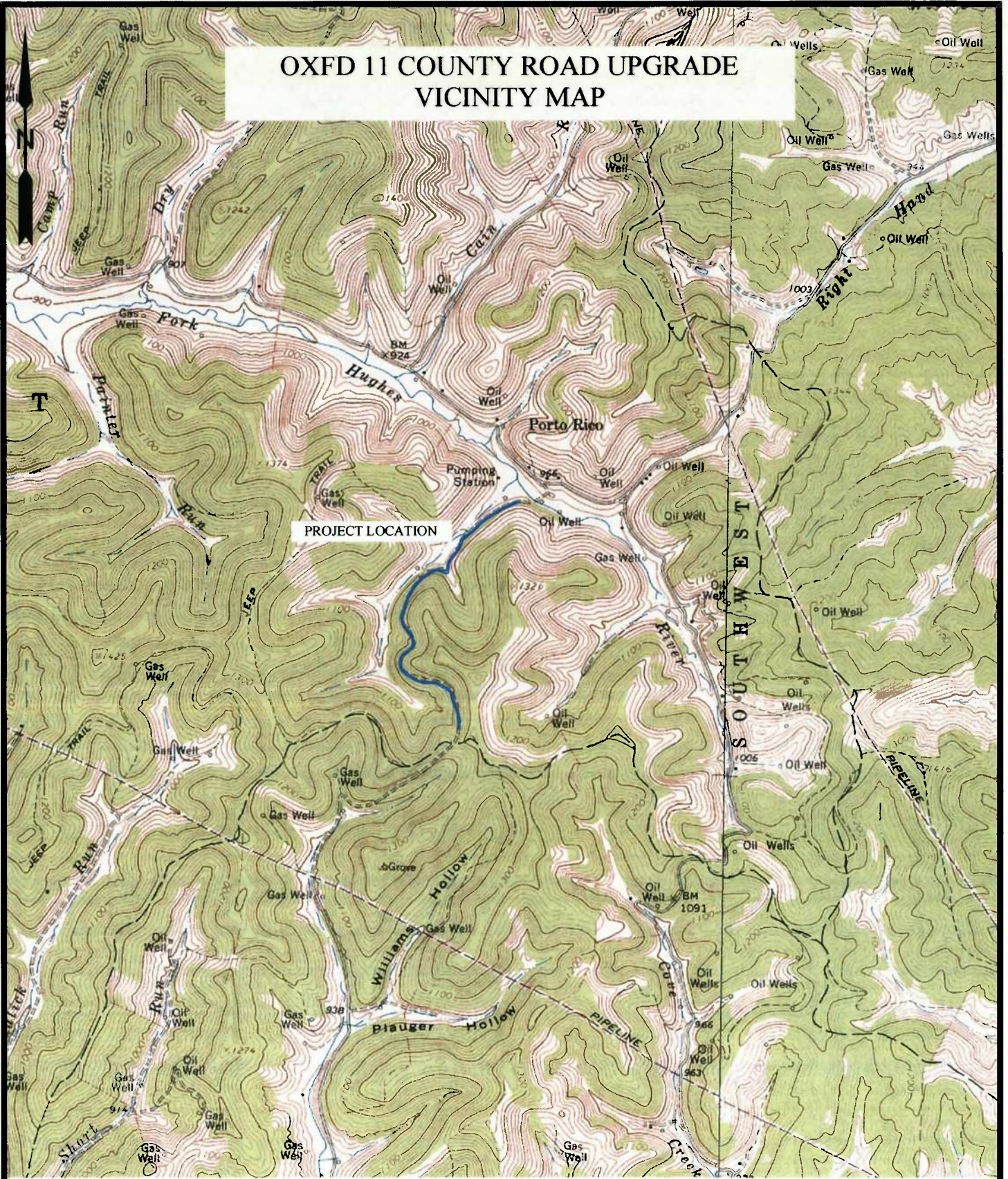


MAP NUMBER  
54017C0225C  
MAP REVISED  
OCTOBER 4, 2011

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)

# OXFD 11 COUNTY ROAD UPGRADE VICINITY MAP



PROJECT LOCATION

SCALE

1 INCH = 2000- FEET

0'                      2000'                      4000'                      6000'



**Professional Energy Consultants**  
A DIVISION OF SMITH LAND SURVEYING

SURVEYORS                      ENGINEERS  
PROJECT MGMT.                      ENVIRONMENTAL



228 West Main St.  
P.O. Box 150  
Genetta, WV 26351  
(304) 462-2634                      56065 Dixie Bottom Road  
Shawade, OH 43087  
(740) 971-9911

HONESTY, INTEGRITY, QUALITY

|                  |                 |                                         |
|------------------|-----------------|-----------------------------------------|
| FILE NO.<br>8126 | DATE<br>1/27/14 | CADD FILE:<br>OXFD11ACCESS8126PHOTO.dwg |
|------------------|-----------------|-----------------------------------------|

# OXFD 11 COUNTY ROAD UPGRADE PROJECT LOCATION MAP

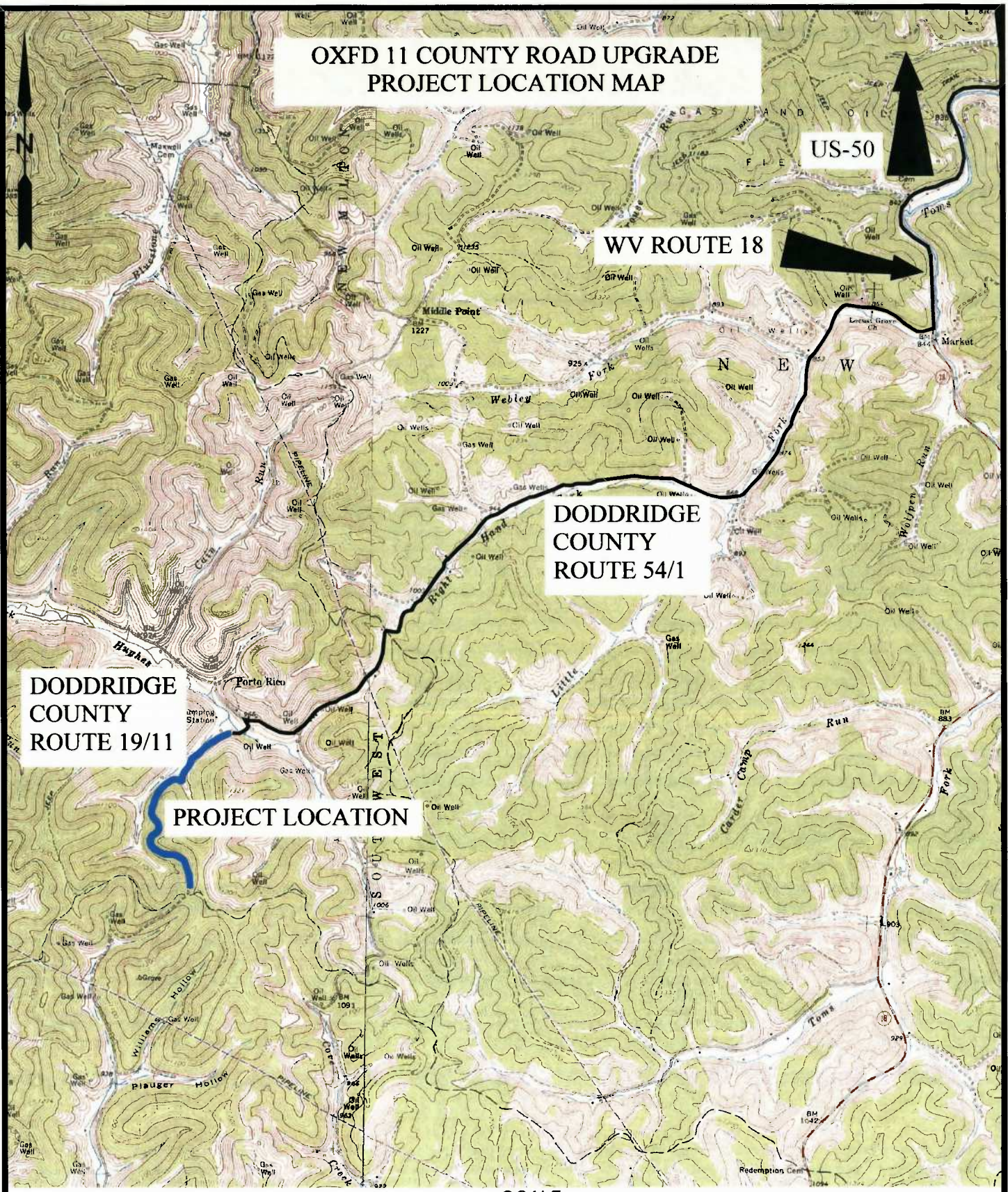
US-50

WV ROUTE 18

DODDRIDGE  
COUNTY  
ROUTE 54/1

DODDRIDGE  
COUNTY  
ROUTE 19/11

PROJECT LOCATION



SCALE

1 INCH = 3000-FEET

0' 3000' 6000' 9000'



Professional Energy Consultants  
A DIVISION OF SMITH LAND SURVEYING

SURVEYORS PROJECT MGMT. **SLS** ENGINEERS ENVIRONMENTAL

226 West Main St.  
P.O. Box 160  
Clarksburg, WV 26301  
(304) 462-2624  
8606 S Dixie Bottom Road  
Shady Side, OH 43087  
(614) 671-9911  
HONESTY. INTEGRITY. QUALITY

|                  |                 |                                         |
|------------------|-----------------|-----------------------------------------|
| FILE NO.<br>8126 | DATE<br>1/27/14 | CADD FILE:<br>OXFD11ACCESSR126PHOTO.dwg |
|------------------|-----------------|-----------------------------------------|



P.O. BOX 150, GLENVILLE, WV 26351  
 (304) 462-5634 • FAX (304) 462-5656

# LETTER OF TRANSMITTAL

|                                     |                 |
|-------------------------------------|-----------------|
| DATE<br>2/25/14                     | JOB NO.<br>8126 |
| ATTENTION<br>Catie Slater           |                 |
| RE:<br>OXFD 11 CR 19/11 Improvement |                 |
|                                     |                 |
|                                     |                 |
|                                     |                 |
|                                     |                 |
|                                     |                 |

TO: Doddridge County Floodplain Manager  
118 East Court Street  
West Union, WV 26456

> WE ARE SENDING YOU  Attached  Under separate cover via \_\_\_\_\_ the following items:

Shop drawings     Prints     Plans     Samples     Specifications  
 Copy of letter     Change order     \_\_\_\_\_

| COPIES | DATE | NO. | DESCRIPTION                                          |
|--------|------|-----|------------------------------------------------------|
| 1      |      |     | Letter detailing revised construction costs estimate |
| 1      |      |     | SLS Check #17886 for Floodplain Permit Fees          |
|        |      |     |                                                      |
|        |      |     |                                                      |
|        |      |     |                                                      |
|        |      |     |                                                      |
|        |      |     |                                                      |
|        |      |     |                                                      |

FILED  
 2014 FEB 26 PM 2:08  
 BETH A. ROGERS  
 COUNTY CLERK  
 DODDRIDGE COUNTY, WV

THESE ARE TRANSMITTED as checked below:

For approval     Approved as submitted     Resubmit \_\_\_\_\_ copies for approval  
 For your use     Approved as noted     Submit \_\_\_\_\_ copies for distribution  
 As requested     Returned for corrections     Return \_\_\_\_\_ corrected prints  
 For review and comment     \_\_\_\_\_  
 FOR BIDS DUE \_\_\_\_\_ 20 \_\_\_\_\_  PRINTS RETURNED AFTER LOAN TO US

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

COPY TO SLS Files; CNX Gas Company, LLC

SIGNED: Deanna McVicker

If enclosures are not as noted, kindly notify us at once.



February 13, 2014

Doddridge County Flood Plain Manager  
Floodplain Coordinator  
Doddridge County Commission  
118 East Court Street  
West Union, WV 26456

Attn: Ms. Catie Slater

RE: CNX Gas Company, LLC  
OXFD 11 County Route 19/11 Upgrade

Ms. Slater;

Please find attached the cost estimate breakdown for the above referenced project as we discussed on the telephone earlier this week.

The total revised construction cost estimate is \$356,583.85. The following is a breakdown of the application fee:

\$356,583.85 Total estimate  
-\$100,000.00 First 100,000  
\$256,583.85

$256,583.85/1000=256.6$

$256.6 \times 5 = \$1,283$  (Fee beyond first \$100,000)

$\$1,283 + \$1,000$  (Fee for first \$100,000) = \$2,283 (Total Fee)

$\$2,283 - \$500$  (Previously submitted fee) = **\$1783.00** (Remaining Balance Due)

We will follow up in the mail with a hard copy of the Construction Cost and a check for \$1,783.

If you have any questions please let me know.

Thanks,

Leslie Pierce  
[lpierce@slssurveys.com](mailto:lpierce@slssurveys.com)  
304-462-5634



**WV GAS OPERATIONS**  
ROAD CONSTRUCTION COST ANALYSIS

**OXF-11  
ROAD**

WACO Oil & Gas

UNIT

COST

**CONSTRUCTION COSTS**

|                                                     |                  |              |
|-----------------------------------------------------|------------------|--------------|
| Clearing and Grubbing                               | EACH             | \$ 9,500.00  |
| Mobilization                                        | EACH             | \$ 11,500.00 |
| Unclassified Excavation                             | YRD <sup>3</sup> | \$ 16,214.00 |
| Subgrade                                            | YRD <sup>3</sup> | \$ 27,475.50 |
| Fabric for Subsurface Drainage                      | YRD <sup>2</sup> | \$ 195.30    |
| Fabric for Separation                               | YRD <sup>2</sup> | \$ 13,540.10 |
| Subgrade Preparation                                | YRD <sup>2</sup> | \$ 11,279.80 |
| Shoulder & Ditch                                    | MILE             | \$ 2,695.00  |
| Aggregate Base Course, Class 3 (Spreading)          | TON              | \$ 4,826.20  |
| Aggregate Base Course, Class 9 (Spreading)          | TON              | \$ 10,835.85 |
| R-4 Rock                                            | TON              | \$ 14,400.00 |
| 49 x 33" Metallic Coated Corrugated Steel Pipe Arch | FT               | \$ 3,636.00  |
| 15" Corrugated Polyethylene Pipe                    | FT               | \$ 3,551.00  |
| 18" Corrugated Polyethylene Pipe                    | FT               | \$ 2,464.00  |
| 21" Corrugated Polyethylene Pipe                    | FT               | \$ 2,464.00  |
| 24" Corrugated Polyethylene Pipe                    | FT               | \$ 1,386.00  |
| Traffic Control                                     | EACH             | \$ 11,000.00 |
| Water for Dust Palliative                           | MG               | \$ -         |
| Silt Fence                                          | FT               | \$ 18,560.00 |
| Ditch Check                                         | EACH             | \$ 5,085.00  |
| Fertilizer 10-20-10                                 | TON              | \$ 245.10    |
| Seed Mixture, D                                     | LBS              | \$ 57.75     |
| Straw or Hay Mulch                                  | TON              | \$ 847.50    |

**TOTAL CONSTRUCTION**

**\$ 171,758.10**

**AGGREGATE COST**

**GREER INDUSTRIES**

|                         |               |
|-------------------------|---------------|
| Aggregate Base, Class 3 | \$ 44,581.00  |
| Aggregate Base, Class 9 | \$ 113,469.75 |
| R-4 Rock                | \$ 26,775.00  |

**TOTAL AGGREGATE**

**\$ 184,825.75**

February 13, 2011  
Doddridge County Flood Plain Manager  
Floodplain Coordinator  
Doddridge County Commission  
118 East Court Street  
West Union, WV 26456

Attn: Ms. Catie Slater

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OXFD 11 County Route 19/11 Upgrade

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Thanks,

Leslie Pierce  
[lpierce@slssurveys.com](mailto:lpierce@slssurveys.com)  
304-462-5634

**WV GAS OPERATIONS**  
**ROAD CONSTRUCTION COST ANALYSIS**

**OXF-11**  
**ROAD**

WACO Oil & Gas

|                                                     | UNIT             | COST                 |
|-----------------------------------------------------|------------------|----------------------|
| <b>CONSTRUCTION COSTS</b>                           |                  |                      |
| Clearing and Grubbing                               | EACH             | \$ 9,500.00          |
| Mobilization                                        | EACH             | \$ 11,500.00         |
| Unclassified Excavation                             | YRD <sup>3</sup> | \$ 16,214.00         |
| Subgrade                                            | YRD <sup>3</sup> | \$ 27,475.50         |
| Fabric for Subsurface Drainage                      | YRD <sup>2</sup> | \$ 195.30            |
| Fabric for Seperation                               | YRD <sup>2</sup> | \$ 13,540.10         |
| Subgrade Preparation                                | YRD <sup>2</sup> | \$ 11,279.80         |
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| Traffic Control                                     | EACH             | \$ 11,000.00         |
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| Silt Fence                                          | FT               | \$ 18,560.00         |
| Ditch Check                                         | EACH             | \$ 5,085.00          |
| Fertilizer 10-20-10                                 | TON              | \$ 245.10            |
| Seed Mixture, D                                     | LBS              | \$ 57.75             |
| Straw or Hay Mulch                                  | TON              | \$ 847.50            |
| <b>TOTAL CONSTRUCTION</b>                           |                  | <b>\$ 171,758.10</b> |
| <b>AGGREGATE COST</b>                               |                  |                      |
| <b>GREER INDUSTRIES</b>                             |                  |                      |
| Aggregate Base, Class 3                             |                  | \$ 44,581.00         |
| Aggregate Base, Class 9                             |                  | \$ 113,469.75        |
| R-4 Rock                                            |                  | \$ 26,775.00         |
| <b>TOTAL AGGREGATE</b>                              |                  | <b>\$ 184,825.75</b> |

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Search Mail Search Web

Lorena

Compose [Navigation icons] Delete Move Spam More Collapse All

Inbox (46)

OXFD 11 CR 19/11 Upgrade 8126

Drafts (2)

lpierce@slssurveys.com Feb 13 at 2:47 PM

Sent

To Me, chittel@slssurveys.com

Spam (421)

Ms. Slater,

Trash

Attached is a copy of a Cover letter and a breakdown of the construction costs for the OXFD 11 CR 19/11 Upgrade project. We will follow up in the mail with a hard copy of the Construction Costs and a check for \$1,783.

Folders

Recent

If you have any questions please let me know.

Messenger

Thanks,

Contacts

Leslie Pierce  
304-462-5634

Calendar

Notepad

2 Attachments View all Download all

Yahoo Mail for Mobile

CONSTRUCTION C... .pdf Download

8126 OXFD 11 roa... .pdf Download

Reply, Reply All or Forward | More

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 Upon  
Oath That the Accompanying Legal Notice  
Entitled:

*Floodplain Permit*  
*CNX Gas Co. Oxford 11 County*  
*Rt. 1911 Permit # 14-128*

was published in said paper for *2*

successive weeks beginning with the issue  
of *February 18<sup>th</sup>* 2014 and

ending with the issue of

*February 25<sup>th</sup>* 2014 and

that said notice contains *189*

WORD SPACE at *115* cents a word

amounts to the sum of \$ *21.73*

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

\$ *16.29*  
and each publication thereafter

\$ *38.02* TOTAL

EDITOR

*Virginia Nicholson*

SWORN TO AND SUBSCRIBED

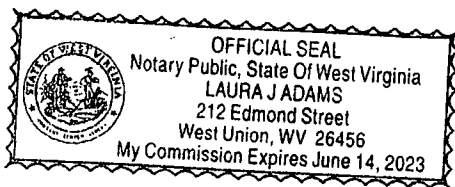
BEFORE ME THIS THE *26<sup>th</sup>* DAY

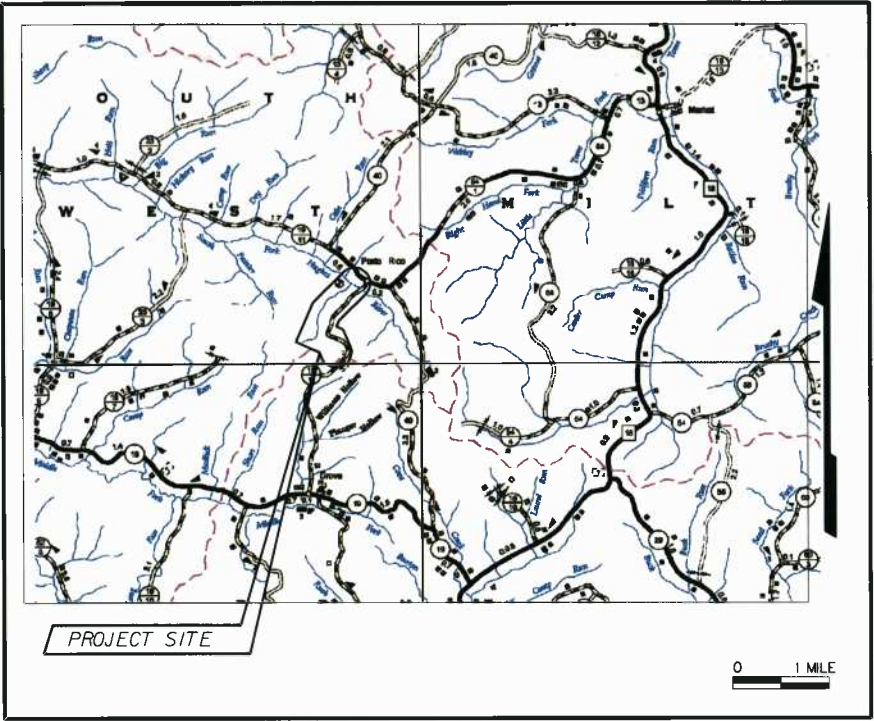
OF *February* 2014

NOTARY PUBLIC

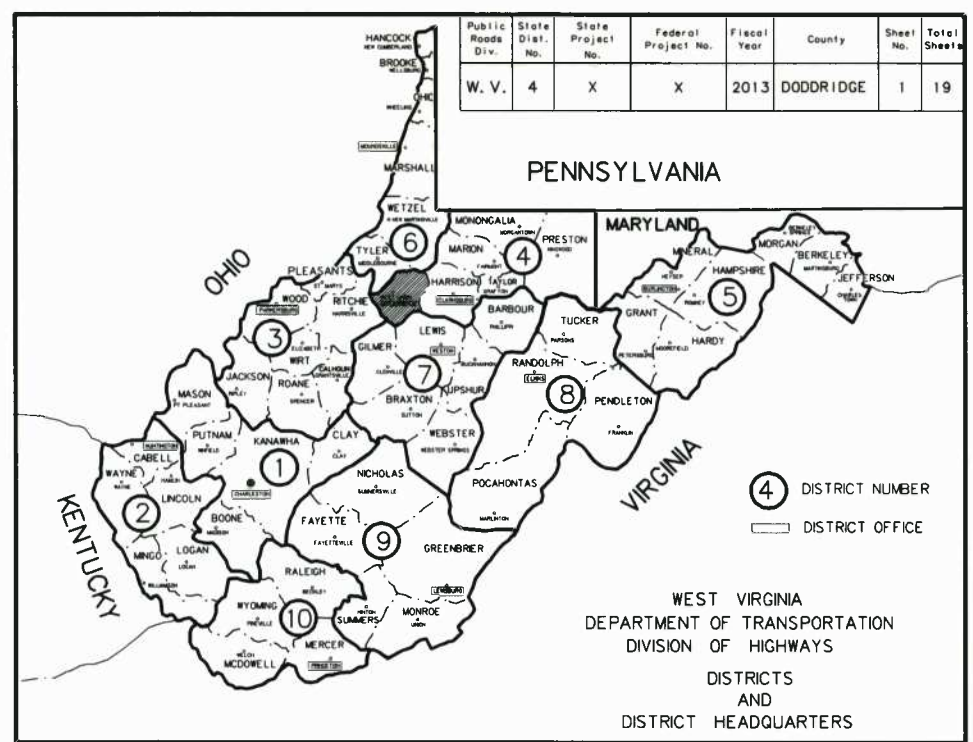
*Laura J Adams*

LEGAL ADVERTISEMENT  
Doddridge County  
Floodplain Permit Application  
Please take notice that on the 13th day of February,  
2014 CNX GAS COMPANY, LLC OXFORD 11 COUNTY,  
ROUTE 1911 UPGRADE PERMIT #14-128, filed an  
application for a Floodplain Permit to develop land  
located in or about SURFACE OWNERS, WVDOT,  
DISTRICT 4, SOUTH WEST DISTRICT - APPROX.  
1,005 MILES OF FREEDOM ROAD.  
The Application is on file with the Clerk of the County  
Court and may be inspected or copied during regular  
business hours. Any interested persons who desire to  
comment shall present the same in writing by March 10,  
2014.  
Delivered to the  
Clerk of the County Court  
118 E. Court Street, West Union, WV 26456  
Beth A. Rogers, Doddridge County Clerk  
Ralph Sandora, Doddridge County Floodplain  
Manager





# WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PLANS FOR CONSTRUCTION OF STATE HIGHWAY COUNTY ROUTE 19/11 DISTRICT FOUR SOUTHWEST DISTRICT DODDRIDGE COUNTY FREEDOM ROAD

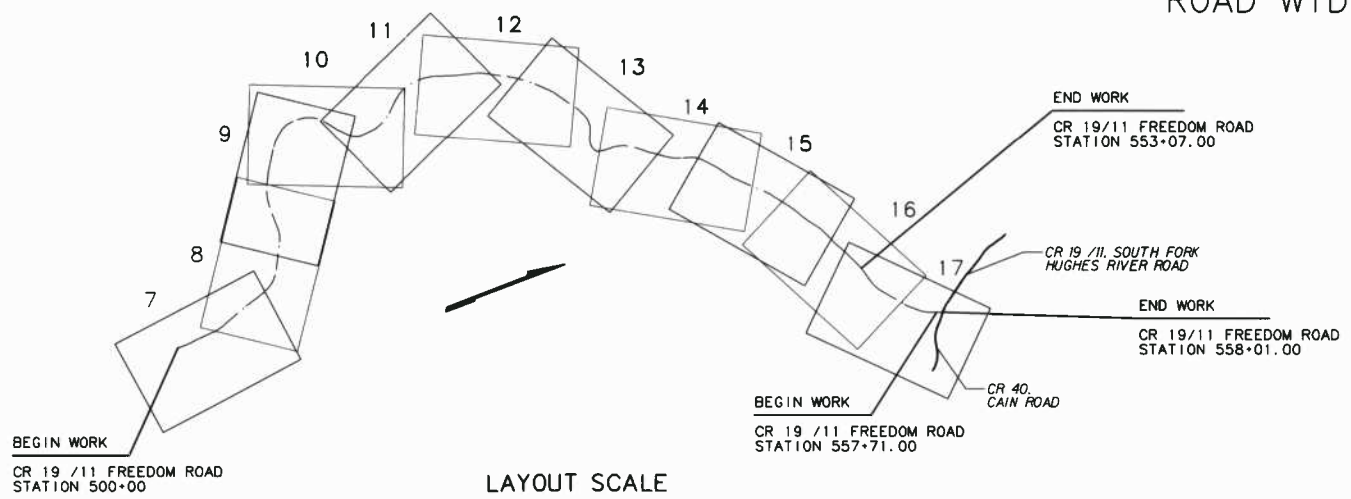


|          | Station   | Station      | f. t.   | mile(s) |
|----------|-----------|--------------|---------|---------|
| CR 19/11 | 500+00.00 | to 553+07.00 | 5,307.0 | 1.005   |
| CR 19/11 | 557+71.00 | to 558+01.00 | 30.0    | 0.006   |
|          |           | TOTAL        | 5,337.0 | 1.011   |

TYPE OF CONSTRUCTION  
ROAD WIDENING AND RESURFACING

### UTILITIES DODDRIDGE COUNTY

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>FIRST ENERGY CORP. / MON POWER</b><br/>PO BOX 1392<br/>1310 FAIRMOUNT AVE.<br/>FAIRMOUNT, WV 26555-1392<br/>304-369-3437 (T)<br/>CONTACT: NICK ENSMINGER</p> <p><b>ARMSTRONG TELEPHONE COMPANY - NORTH DIVISION</b><br/>PO BOX 199<br/>600 EAST NORTH STREET<br/>HARRISVILLE, WV 26362<br/>304-643-2921 (T)</p> <p><b>DOMINION HOPE</b><br/>55 ASHBY RIDGE RD.<br/>PARKERSBURG, WV 26104<br/>304-464-4046 (T)<br/>CONTACT: ALLEN AMMONS</p> | <p><b>DOMINION TRANSMISSION INC.</b><br/>445 WEST MAIN STREET<br/>CLARKSBURG, WV 26301<br/>304-627-3333 (T)</p> <p><b>CONSOL ENERGY</b><br/>CNX CENTER<br/>1000 CONSOL ENERGY DRIVE<br/>CANONSBURG, PA 15317<br/>724-485-4000 (T)</p> <p><b>WVDEP DIVISION OF LAND RESTORATION</b><br/>601 57TH STREET SE<br/>CHARLESTON, WV 25304<br/>304-926-0440 (T)</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



SCALES  
PLAN HOR. 0 20 ft.

- #### CONVENTIONAL SIGNS
- STATE LINE
  - COUNTY LINE
  - CORPORATION LINE
  - PROPOSED R/W & EASEMENT LINE
  - EXISTING R/W LINE
  - PROPERTY LINE
  - EXISTING FENCE
  - PROPOSED FENCE
  - EDGE OF STREAM
  - PROPOSED GUARD RAIL
  - EXISTING GUARD RAIL
  - RAILROAD
  - GAS LINE
  - WATER LINE
  - TELEPHONE LINE
  - ELECTRIC LINE
  - TELEPHONE POLE
  - POWER POLE
  - COMBINED POWER AND TELEPHONE POLE
  - TREE
  - SHRUB
  - RIGHT OF WAY MARKER

| DESIGN DESIGNATION   |                 |
|----------------------|-----------------|
| A . D . T (20 ) DATA | -----           |
| A . D . T (20 ) NOT  | -----           |
| D . H . V            | ----- AVAILABLE |
| D                    | -----           |
| T                    | -----           |
| V                    | -----           |

#### INDEX TO SHEETS

| NO.  | DESCRIPTION                                       |
|------|---------------------------------------------------|
| 1    | TITLE SHEET                                       |
| 2    | TYPICAL SECTIONS                                  |
| 3    | GENERAL NOTES AND SUMMARY OF ESTIMATED QUANTITIES |
| 4    | SPECIAL DETAILS                                   |
| 5    | PROFILE                                           |
| 6    | MAINTENANCE OF TRAFFIC NOTES                      |
| 7    | MAINTENANCE OF TRAFFIC DETAILS                    |
| 8-18 | PLAN SHEETS                                       |
| 19   | EROSION AND SEDIMENTATION CONTROL NOTES           |

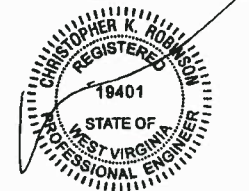
| REVISION NUMBER | SHEET NUMBER | REVISIONS | DATE     | BY  |
|-----------------|--------------|-----------|----------|-----|
| X               | XXX          | XXX       | XX/XX/XX | XXX |

**STAHL  
SHEAFFER  
ENGINEERING, LLC**

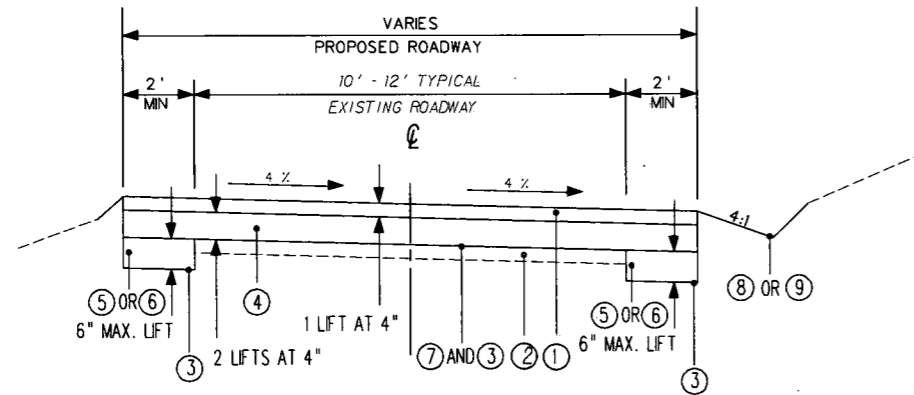
4050 WASHINGTON ROAD, STE. 1E  
MCMURRAY, PA 15317

PH: 724-960-1111  
FAX: 724-960-1162

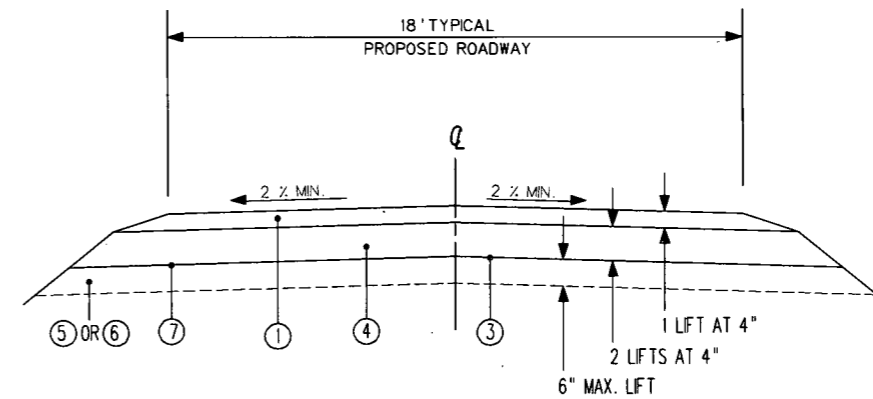
WWW.SSB-LLC.COM



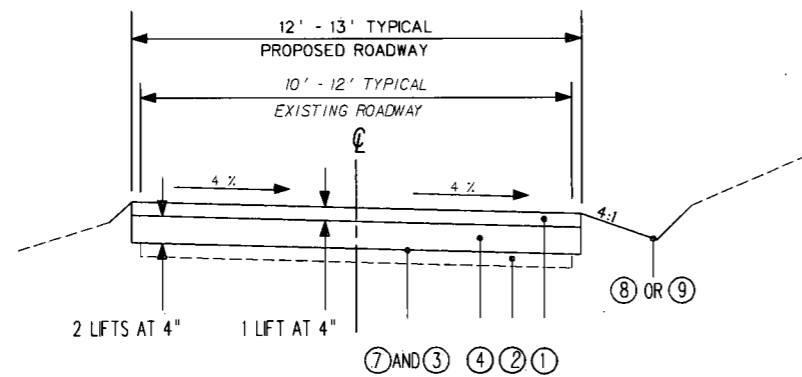
|                   |                 |                   |                     |             |           |           |              |
|-------------------|-----------------|-------------------|---------------------|-------------|-----------|-----------|--------------|
| Public Roads Div. | State Dist. No. | State Project No. | Federal Project No. | Fiscal Year | County    | Sheet No. | Total Sheets |
| W. V.             | 4               | X                 | X                   | 2013        | DODDRIDGE | 2         | 19           |



CR 19/11  
 STA 505+25.85 TO STA 507+43.33  
 STA 508+40.20 TO STA 509+58.68  
 STA 512+59.98 TO STA 520+29.68  
 STA 553+50.07 TO STA 539+17.91  
 STA 541+07.14 TO STA 542+56.80  
 NTS



PRIVATE ROAD  
 STA 553+07.00 TO 557+97.12.00  
 NTS



CR 19/11  
 STA 500+00.00 TO STA 505+25.85  
 STA 507+43.33 TO STA 508+40.20  
 STA 509+58.68 TO STA 512+59.98  
 STA 520+29.68 TO STA 553+50.07  
 STA 539+17.91 TO STA 541+07.14  
 STA 542+56.80 TO STA 553+07.00  
 NTS

LEGEND

- ① ITEM 307001-000: AGGREGATE BASE COURSE, CLASS 3
- ② EXISTING ROADWAY
- ③ ITEM 228001-000: SUBGRADE PREPARATION
- ④ ITEM 307001-000: AGGREGATE BASE COURSE, CLASS 9
- ⑤ ITEM 207002-000: SUBGRADE
- ⑥ ITEM 207001-001: UNCLASSIFIED EXCAVATION
- ⑦ ITEM 207034-000: FABRIC FOR SEPARATION
- ⑧ ITEM 229001-000: SHOULDERS AND DITCHES (SEE SHOULDERS AND DITCHES DETAIL)
- ⑨ ITEM 606025-008: 12 INCH UNDERDRAIN PIPE (SEE 12" UNDERDRAIN DETAIL)

| REVISION NUMBER | SHEET NUMBER | REVISION | DATE | BY |
|-----------------|--------------|----------|------|----|
|                 |              |          |      |    |
|                 |              |          |      |    |
|                 |              |          |      |    |

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

TYPICAL SECTIONS

# GENERAL NOTES

| Public Roads Div. | State Dist. No. | State Project No. | Federal Project No. | Fiscal Year | County    | Sheet No. | Total Sheets |
|-------------------|-----------------|-------------------|---------------------|-------------|-----------|-----------|--------------|
| W. V.             | 4               | X                 | X                   | 2013        | DODDRIDGE | 3         | 19           |

## GOVERNING SPECIFICATIONS

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, STANDARD SPECIFICATIONS ROADS AND BRIDGES, ADOPTED 2010, AS AMENDED BY WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS AND SUPPLEMENTAL SPECIFICATIONS, DATED JANUARY 1, 2013 THE CONTRACT DOCUMENTS AND THE CONTRACT PLANS ARE THE GOVERNING PROVISIONS APPLICABLE TO THIS PROJECT.

ALL WORK CONTEMPLATED WITH THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, STANDARD SPECIFICATIONS ROADS AND BRIDGES, ADOPTED 2010, AS AMENDED BY WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS AND SUPPLEMENTAL SPECIFICATIONS, DATED JANUARY 1, 2013, UNLESS OTHERWISE NOTED.

## STANDARD DETAILS

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, STANDARD DETAILS BOOK, VOLUME I, DATED JANUARY 1, 2000 & VOLUME II, DATED JANUARY 1, 1994 SHALL APPLY TO THIS PROJECT. REVISED STANDARD DRAWINGS LISTED IN THE TABLE ON THIS SHEET WITH THEIR CORRESPONDING DATE SUPERSEDE THE AFOREMENTIONED STANDARD DETAILS. STANDARD DETAILS DRAWINGS CAN BE FOUND AT <http://www.transportation.wv.gov/highways/engineering/Pages/publications.aspx>

## RIGHT OF WAY

THE LEGAL RIGHT OF WAY ON COUNTY ROUTE 19/11 IS 30 FEET, 15 FEET ON EACH SIDE OF THE ROADWAY CENTERLINE, BASED ON INFORMATION PROVIDED BY WVDOH.

## UTILITY STATUS

THE UTILITY CONTACTS FOR THE PROJECT AREA WERE OBTAINED FROM MISS UTILITY OF WEST VIRGINIA. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THEIR OWN MISS UTILITY TICKET AT [WWW.WV811.COM](http://www.wv811.com) OR 1-800-245-4848 OR 811 AND NOTIFYING ANY UTILITY WITHIN THE LIMITS OF THE PROJECT OF ALL WORK TO BE PERFORMED. UTILITY COMPANIES WILL NORMALLY LOCATE AND MARK THEIR EXISTING FACILITIES ON THE GROUND WITHIN TWO (2) WORKING DAYS. THE ENGINEER WILL MAKE EVERY EFFORT TO ADJUST THE PROPOSED WORK TO AVOID CONFLICTS WITH OR RELOCATIONS BY THE UTILITY.

THE ENGINEER DOES NOT GUARANTEE THE ACCURACY OF THE LOCATIONS OR THE EXISTING SUBSURFACE UTILITY STRUCTURES SHOWN ON THE PLANS, NOR DOES THE ENGINEER GUARANTEE THAT ALL SUBSURFACE STRUCTURES ARE SHOWN. CHECK AND VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE WORK SITE.

## EXISTING CONDITIONS

PROVIDED BY BLUE MOUNTAIN ENGINEERING. THE EXISTING CONDITIONS NOT PROVIDED IN THE FIELD SURVEY HAVE BEEN APPROXIMATED USING READILY AVAILABLE AERIAL IMAGES, NO FIELD SURVEY INFORMATION WAS AVAILABLE. THE ENGINEER MAKES NO GUARANTEE TO ACCURACY OF THE BASE INFORMATION, EXISTING ROADS, DRIVEWAYS AND STRUCTURES SHOWN ARE BASED ON AERIAL IMAGES AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. NECESSARY PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO LOCATE AND PROTECT EXISTING UTILITY SERVICES AND MAINS. ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE FIELD ENGINEER PRIOR TO CONSTRUCTION.

## CONSTRUCTION

FAILURE TO SPECIFICALLY MENTION ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES AND SAFETY PRECAUTIONS AND PROGRAMS. THE CONTRACTOR IS RESPONSIBLE FOR TRANSITIONS TO DRIVEWAYS, DRAINAGE STRUCTURES, AND OTHER ROADSIDE FEATURES.

METAL TRENCH PLATES ARE REQUIRED FOR ALL JOBS INVOLVING CULVERT REPLACEMENT. TRENCH PLATES MUST BE PRESENT ON SITE AND READY FOR IMMEDIATE USE PRIOR TO ROADWAY EXCAVATION.

## RECORD OF EXISTING PAVEMENT

CR 19/11 AGGREGATE ROADWAY, UNKNOWN DEPTH M.P. 7.40 - 8.54 (SLD)  
THE PAVEMENT SECTION SHOWN HEREIN IS BASED UPON FIELD CONDITIONS DETERMINED BY SSE ON 9/04/2013.

## DUST PALLIATIVE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING DUST UNDER CONTROL THROUGHOUT THE ENTIRETY OF THE PROJECT. COST SHALL BE INCLUDED IN ITEM 637001-001, WATER FOR DUST PALLIATIVE.

| ROADWAY CR 19/11 |                                                       |                        |       |
|------------------|-------------------------------------------------------|------------------------|-------|
| ITEM NO.         | ITEM DESCRIPTION                                      | APPROXIMATE QUANTITIES | UNITS |
| 201001-000       | CLEARING AND GRUBBING                                 | 1                      | LS    |
| 204001-000       | MOBILIZATION                                          | 1                      | LS    |
| 207001-001       | UNCLASSIFIED EXCAVATION                               | 737                    | CY    |
| 207002-000       | SUBGRADE                                              | 1409                   | CY    |
| 207032-000       | FABRIC FOR SUBSURFACE DRAINAGE                        | 93                     | SY    |
| 207034-000       | FABRIC FOR SEPARATION                                 | 9338                   | SY    |
| 218001-000       | RIPRAP                                                | 12                     | CY    |
| 228001-000       | SUBGRADE PREPARATION                                  | 8057                   | SY    |
| 229001-000       | SHOULDERS AND DITCHES                                 | 0.49                   | MILE  |
| 307001-000       | AGGREGATE BASE COURSE, CLASS 3                        | 1038                   | CY    |
| 307001-000       | AGGREGATE BASE COURSE, CLASS 9                        | 2107                   | CY    |
| 604010-036       | 49X33 INCH METALLIC COATED CORRUGATED STEEL PIPE ARCH | 36                     | LF    |
| 604050-012       | 15" CORRUGATED POLYETHYLENE PIPE                      | 134                    | LF    |
| 604050-016       | 18" CORRUGATED POLYETHYLENE PIPE                      | 56                     | LF    |
| 604050-018       | 21" CORRUGATED POLYETHYLENE PIPE                      | 44                     | LF    |
| 604050-020       | 24" CORRUGATED POLYETHYLENE PIPE                      | 18                     | LF    |
| 606025-008       | 12 INCH UNDERDRAIN PIPE                               | 2325                   | LF    |
| 606030-001       | OUTLET PIPE                                           | 116                    | LF    |
| 636001-001       | TRAFFIC CONTROL                                       | 1                      | LS    |
| 637001-001       | WATER FOR DUST PALLIATIVE                             | 1                      | MG    |
| 642012-001       | SILT FENCE                                            | 5800                   | LF    |
| 642031-001       | DITCH CHECK                                           | 113                    | EACH  |
| 652002-001       | FERTILIZER, 10-20-10                                  | 0.38                   | TON   |
| 652003-002       | SEED MIXTURE, D                                       | 15                     | LBS   |
| 652004-001       | STRAW OR HAY MULCH                                    | 1.50                   | TON   |

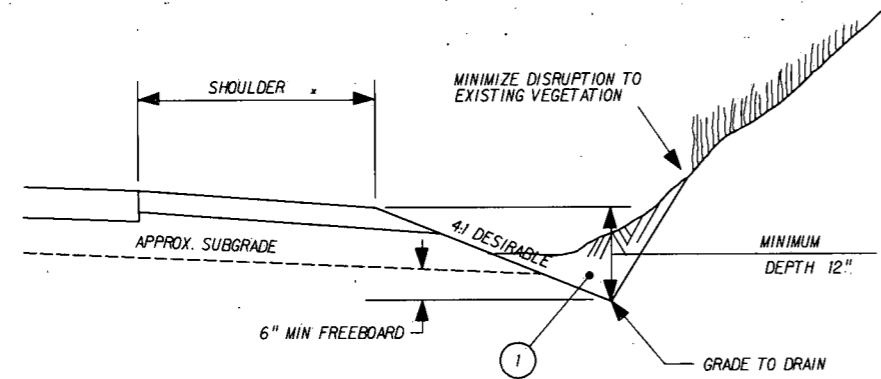
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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

## GENERAL NOTES

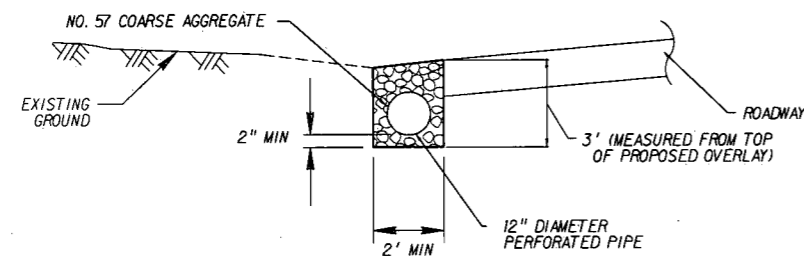


| Public Road Div. | State Dist. No. | State Project No. | Federal Project No. | Fiscal Year | County    | Sheet No. | Total Sheets |
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| W.V.             | 4               | X                 | X                   | 2013        | DODDRIDGE | 4         | 19           |



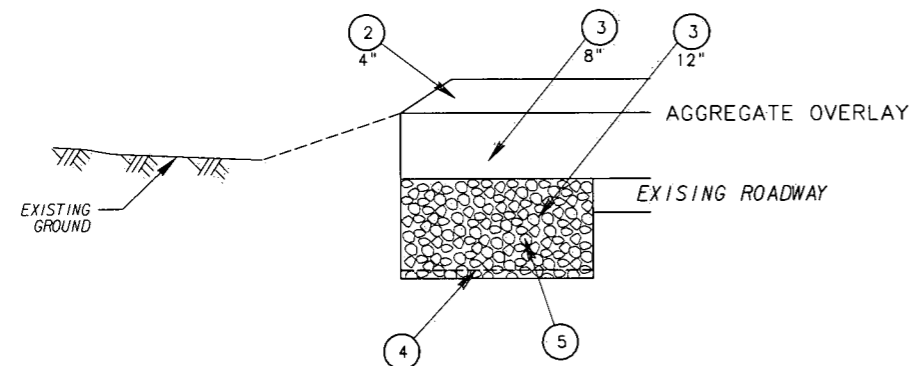
**SHOULDER AND DITCHES**

\* AS SHOWN ON PLANS AND AS DIRECTED. WIDTH, SLOPE, AND MATERIAL AS SPECIFIED ON TYPICAL SECTIONS.



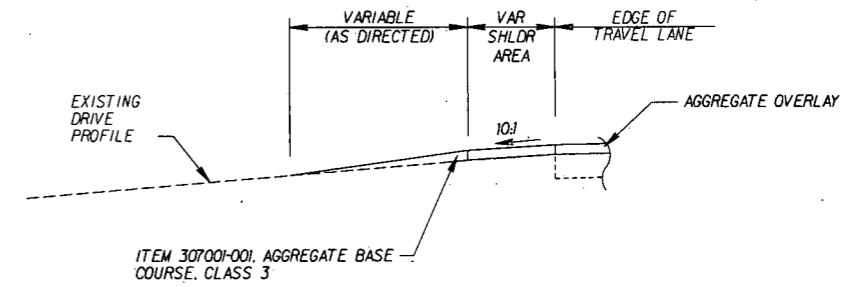
**12" UNDERDRAIN DETAIL**

AS SHOWN ON PLANS AND AS DIRECTED



**ROADWAY BASE REPAIR**

AS SHOWN ON PLANS AND AS DIRECTED.

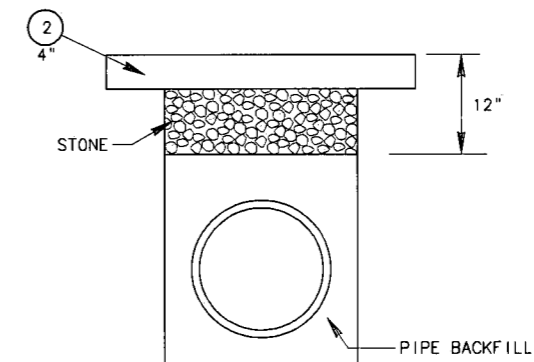


**GRAVEL DRIVEWAY ADJUSTMENT DETAIL**

WORK IS CONSIDERED INCIDENTAL TO THE AGGREGATE BASE COURSE ITEM 307001-001 ALL WORK SHALL BE COMPLETED WITHIN LEGAL RIGHT-OF-WAY

**LEGEND**

- ① ITEM 229001-000: SHOULDERS & DITCHES
- ② ITEM 307001-001: AGGREGATE BASE COURSE, CLASS 3
- ③ ITEM 307001-001: AGGREGATE BASE COURSE, CLASS 9
- ④ ITEM 207032-000: FABRIC FOR SUBSURFACE DRAINAGE
- ⑤ ITEM 207001-001: UNCLASSIFIED EXCAVATION



**HDPE PIPE (TYP)**

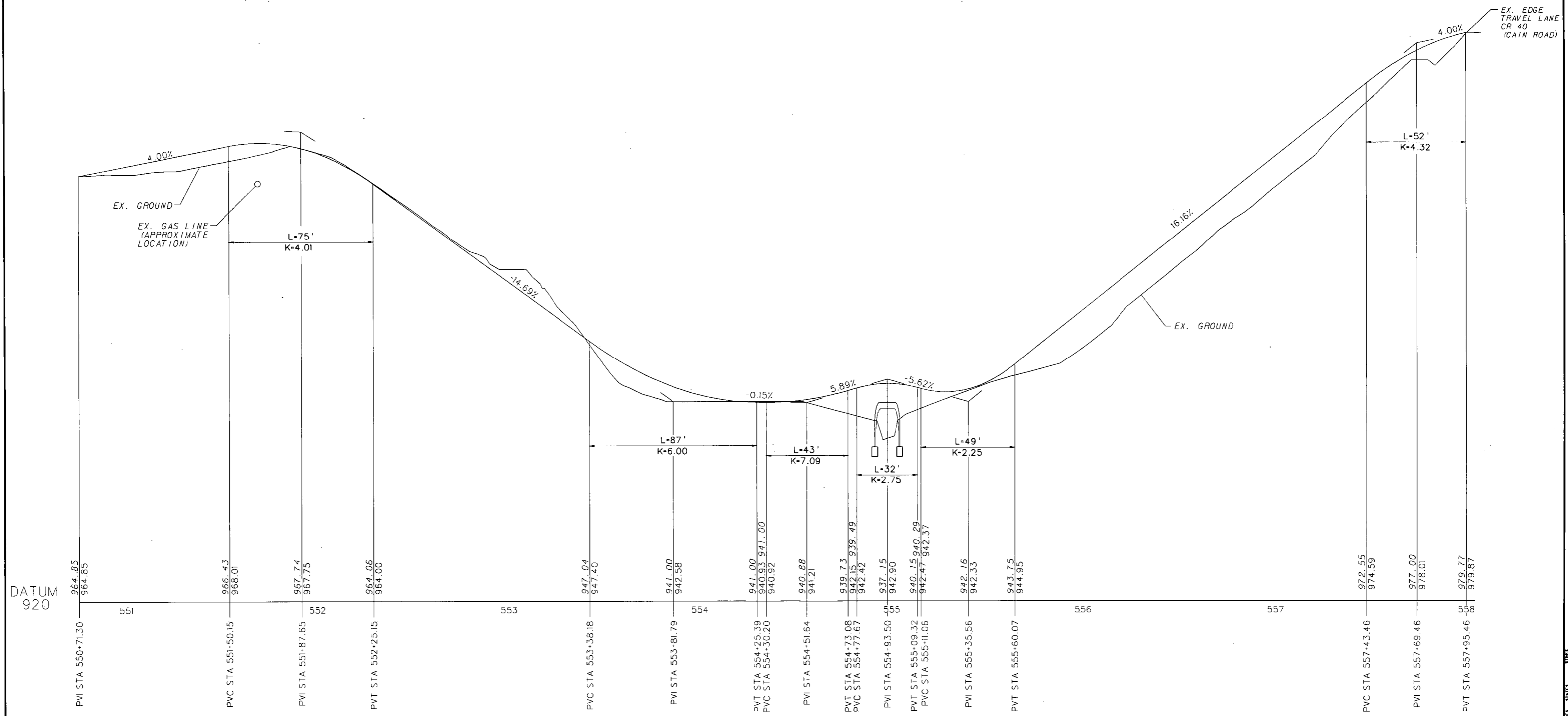
AS SHOWN ON PLANS AND AS DIRECTED.

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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**SPECIAL DETAILS**

|                   |                 |                   |                     |             |           |           |              |
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| W. V.             | 4               | X                 | X                   | 2013        | DODDRIDGE | 5         | 19           |



DATUM  
920

PROFILE OF PRIVATE ROAD

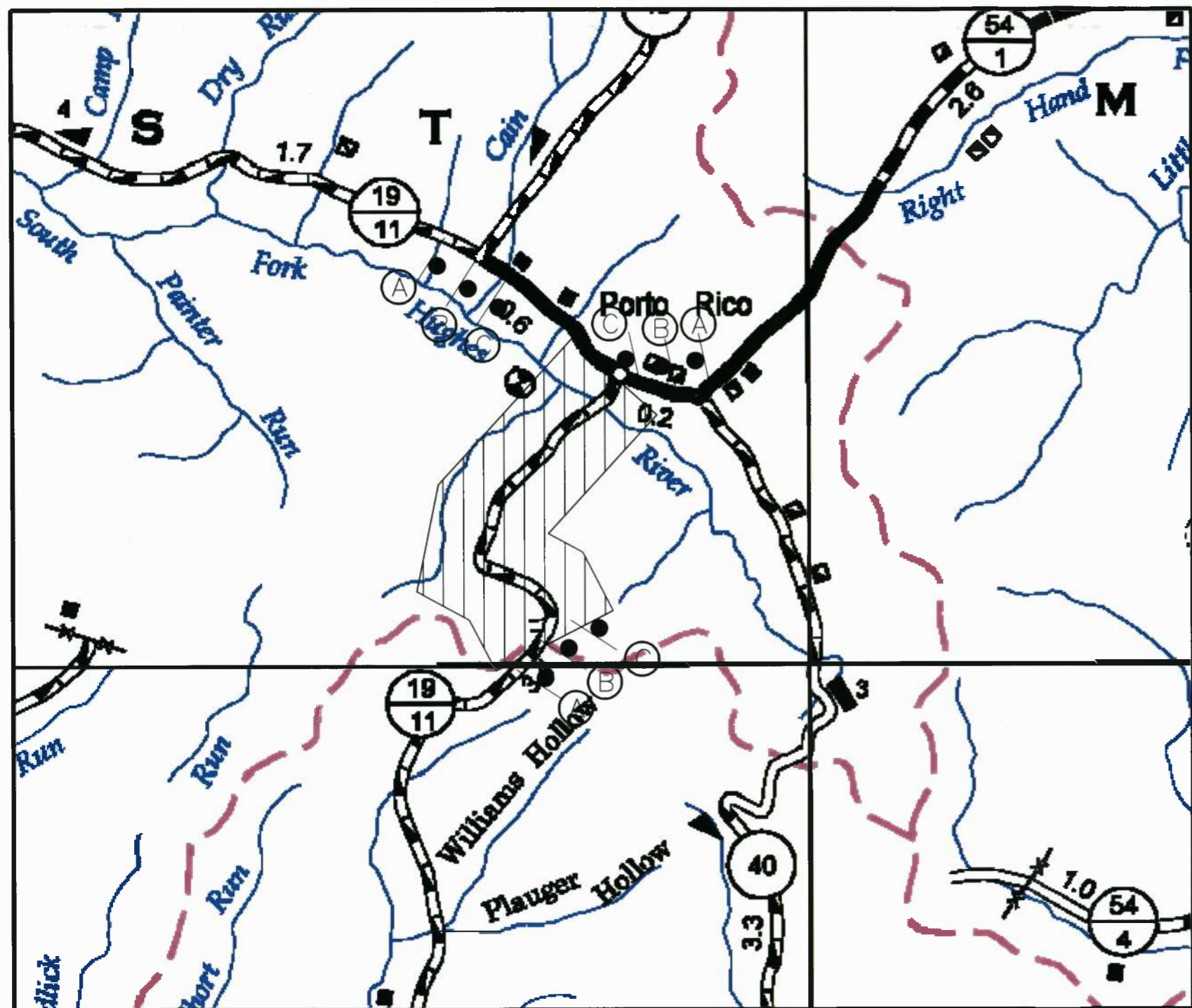
HORIZONTAL SCALE : 0 5 ft.  
 VERTICAL SCALE : 0 25 ft.

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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
**PROFILE**



|                   |                 |                   |                     |             |           |           |              |
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### ADVANCED WARNING SIGN TABULATION FOR INFORMATION ONLY

| LETTER | LEGEND | SERIES | SIZE      | MOUNTING    | QTY |
|--------|--------|--------|-----------|-------------|-----|
| (A)    |        | W20-1  | 36" X 36" | SINGLE POST | 3   |
| (B)    |        | W20-4  | 36" X 36" | SINGLE POST | 3   |
| (C)    |        | W20-7  | 36" X 36" | SINGLE POST | 3   |

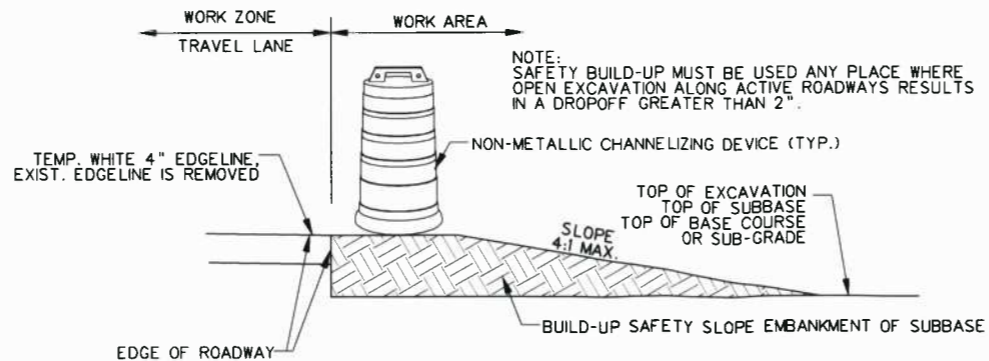
### MAINTENANCE OF TRAFFIC

- MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH SECTION 636 OF THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, STANDARD SPECIFICATIONS, ROADS AND BRIDGES, ADOPTED 2010, AS AMENDED BY WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS AND SUPPLEMENTAL SPECIFICATIONS, DATED JANUARY 1, 2011. THE CONTRACT DOCUMENTS AND THE CONTRACT PLANS ARE THE GOVERNING PROVISIONS APPLICABLE TO THIS PROJECT AND THE MANUAL ON TEMPORARY TRAFFIC CONTROL FOR STREETS AND HIGHWAYS, FOURTH PRINTING, FEBRUARY 2010 - WHICH IS MADE A PART OF THIS CONTRACT AND THE TRAFFIC PLAN FOR INDIVIDUAL SEGMENTS ARE DESCRIBED BELOW.
- THE QUANTITIES OF TRAFFIC CONTROL DEVICES HAVE BEEN INCREASED BY 15% FOR USE AS DIRECTED BY THE ENGINEER WHEN UNANTICIPATED CHANGES IN THE TRAFFIC PLAN OCCUR.
- REFLECTIVE SHEETING ON TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE OF NEW CONDITION AT BEGINNING OF PROJECT LIFE. NIGHT VISIBILITY AND LEGIBILITY SHALL BE MAINTAINED.
- ACCESS TO ALL HOUSES AND BUSINESSES SHALL BE MAINTAINED AT ALL TIMES.
- ALL SIGNS SHALL BE PERMANENTLY MOUNDED FOR WORK LASTING OVER 3 DAYS.
- CR 4/1 CANNOT BE DETOURED. FLAGGING MUST BE UTILIZED TO MAINTAIN A SINGLE LANE OF TRAFFIC AT ALL TIMES.
- DELAYS MUST BE KEPT TO A MAXIMUM OF 15 MINUTES.
- NIGHT TIME OPERATIONS WILL BE REQUIRED AND TEMPORARY LIGHTING WILL BE REQUIRED AT A MINIMUM AT ALL FLAGGER STATIONS.
- ALL ITEMS OF WORK, INCLUDING FLAGGERS, SIGNS, TYPE B LIGHTS, AND DRUMS ARE INCIDENTAL TO ITEM 636001-001: TRAFFIC CONTROL.

### CONSTRUCTION SEQUENCE

- SIGNING: INSTALL TRAFFIC CONTROL FOR ROADWAY WIDENING AS SHOWN ON MAINTENANCE OF TRAFFIC DETAIL SHEET.
- INSTALL DRUMS AT 25' OR LESS SPACING ALONG EDGE OF ROADWAY TO PROTECT EDGE DROP OFF.
- WIDEN ROADWAY AS SHOWN ON PLANS.

**LEGEND**  
 SINGLE LANE CONSTRUCTION

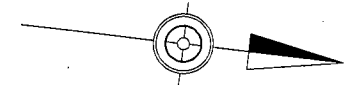


**EDGE DROP OFF DETAIL**  
N.T.S.

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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
**MAINTENANCE OF TRAFFIC NOTES**

|                   |                 |                   |                     |             |           |           |              |
|-------------------|-----------------|-------------------|---------------------|-------------|-----------|-----------|--------------|
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BEGIN WORK  
CR 19 / 11 FREEDOM ROAD  
STATION 500+00

REMOVE WATER BAR

REMOVE WATER BAR  
INSTALL 15" HDPE  
PIPE, 18 LF

UNDERGROUND  
TELEPHONE LINE.  
APPROXIMATE LOCATION

MATCH LINE STA. 503+50

EXISTING RIGHT-OF-WAY

EDGE OF ROADWAY

CR 19/11 FREEDOM RD.

EDGE OF ROADWAY

DITCH

VARIES

EXISTING RIGHT-OF-WAY

PROPOSED OXFORD 11 DRIVEWAY

EXISTING DRIVEWAY

OXFORD 11 DRIVEWAY

INSTALL 15" HDPE PIPE

**LEGEND**

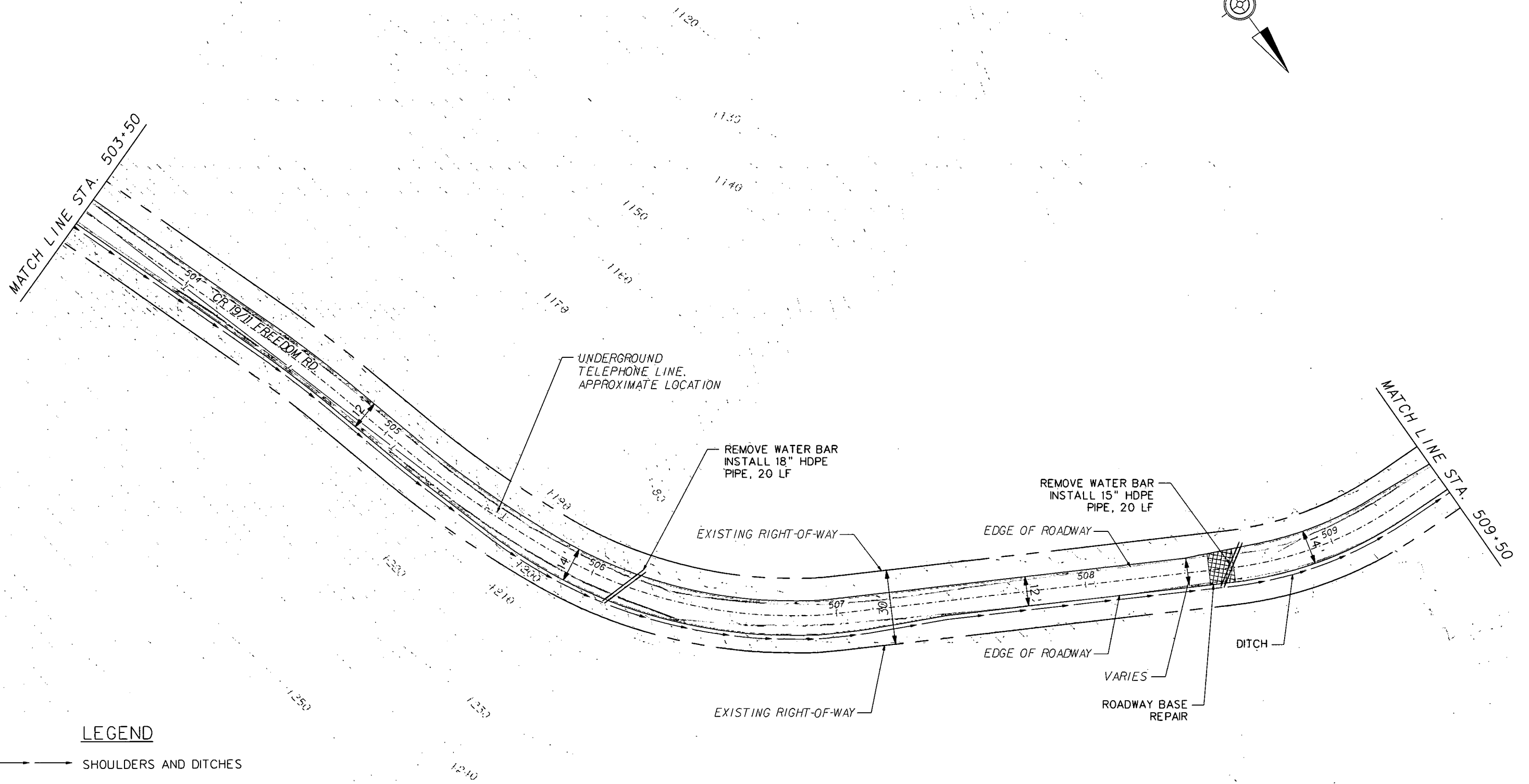
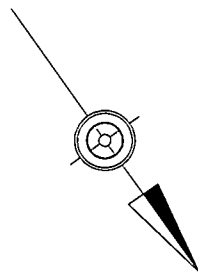
- SHOULDERS AND DITCHES
- UNDERDRAIN PIPE
- ▨ PROPOSED WIDENING
- ▨ ROADWAY BASE REPAIR
- ▨ PROPOSED PRIVATE ROAD

SCALE : 0 20 ft.

| REVISION NUMBER | SHEET NUMBER | REVISION | DATE | BY |
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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PLAN SHEET**

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|-------------------|-----------------|-------------------|---------------------|-------------|-----------|-----------|--------------|
| W. V.             | 4               | X                 | X                   | 2013        | DODDRIDGE | 9         | 19           |



**LEGEND**

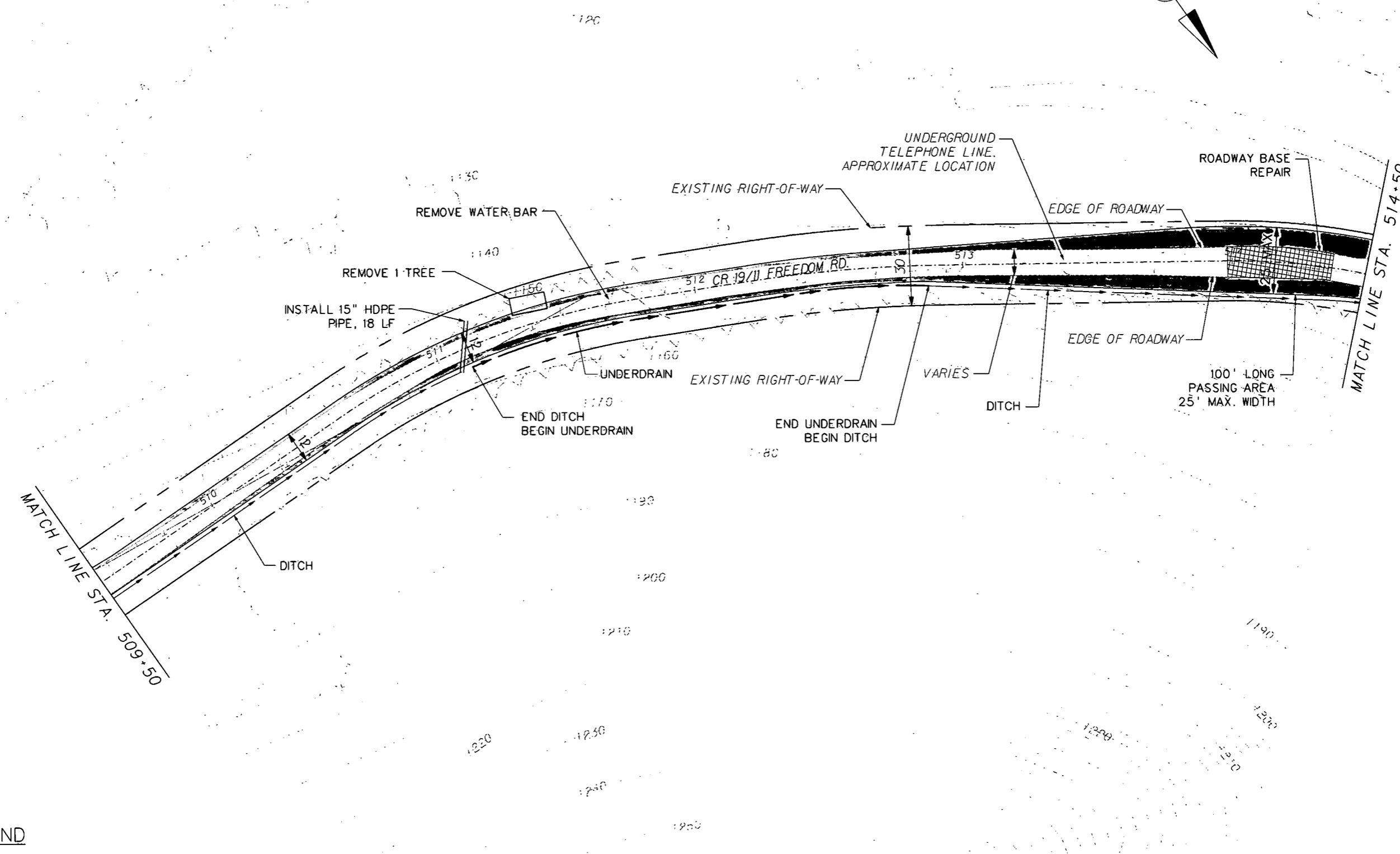
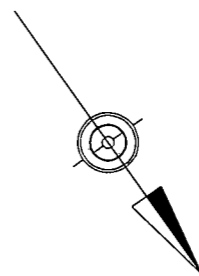
- SHOULDERS AND DITCHES
- UNDERDRAIN PIPE
- ▭ PROPOSED WIDENING
- ▨ ROADWAY BASE REPAIR
- ▧ PROPOSED PRIVATE ROAD

SCALE : 0 20 ft.

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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PLAN SHEET**

|                         |                       |                         |                        |                |           |              |                 |
|-------------------------|-----------------------|-------------------------|------------------------|----------------|-----------|--------------|-----------------|
| Public<br>Roads<br>Div. | State<br>Dist.<br>No. | State<br>Project<br>No. | Federal<br>Project No. | Fiscal<br>Year | County    | Sheet<br>No. | Total<br>Sheets |
| W. V.                   | 4                     | X                       | X                      | 2013           | DODDRIDGE | 10           | 19              |



**LEGEND**

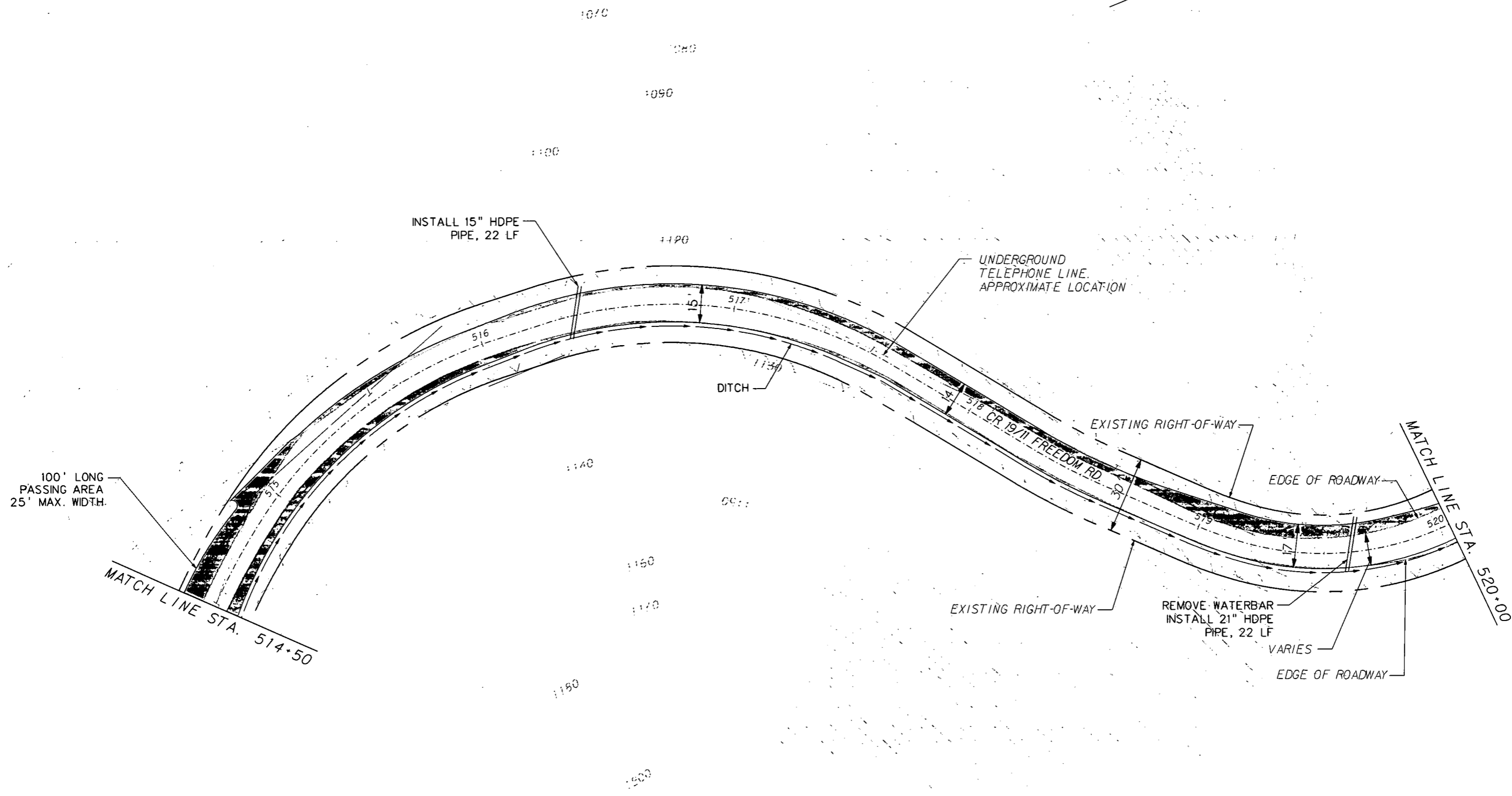
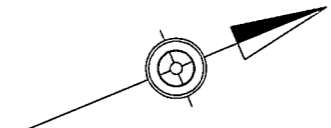
- → SHOULDERS AND DITCHES
- → UNDERDRAIN PIPE
- PROPOSED WIDENING
- ▨ ROADWAY BASE REPAIR
- ▧ PROPOSED PRIVATE ROAD

SCALE : 0 20 ft.

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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PLAN SHEET**

| Public Roads Div. | State Dist. No. | State Project No. | Federal Project No. | Fiscal Year | County    | Sheet No. | Total Sheets |
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**LEGEND**

- → SHOULDERS AND DITCHES
- UNDERDRAIN PIPE
- ▨ PROPOSED WIDENING
- ▧ ROADWAY BASE REPAIR
- ▩ PROPOSED PRIVATE ROAD

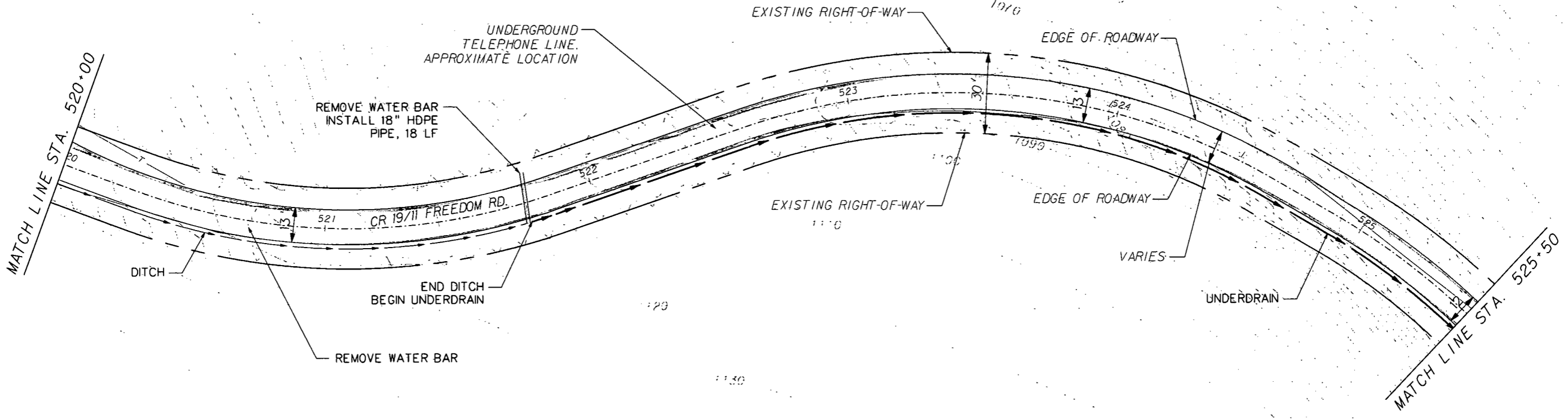
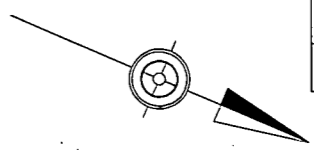
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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PLAN SHEET**



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| Public<br>Roads<br>Div. | State<br>Dist.<br>No. | State<br>Project<br>No. | Federal<br>Project No. | Fiscal<br>Year | County    | Sheet<br>No. | Total<br>Sheets |
| W. V.                   | 4                     | X                       | X                      | 2013           | DODDRIDGE | 12           | 19              |



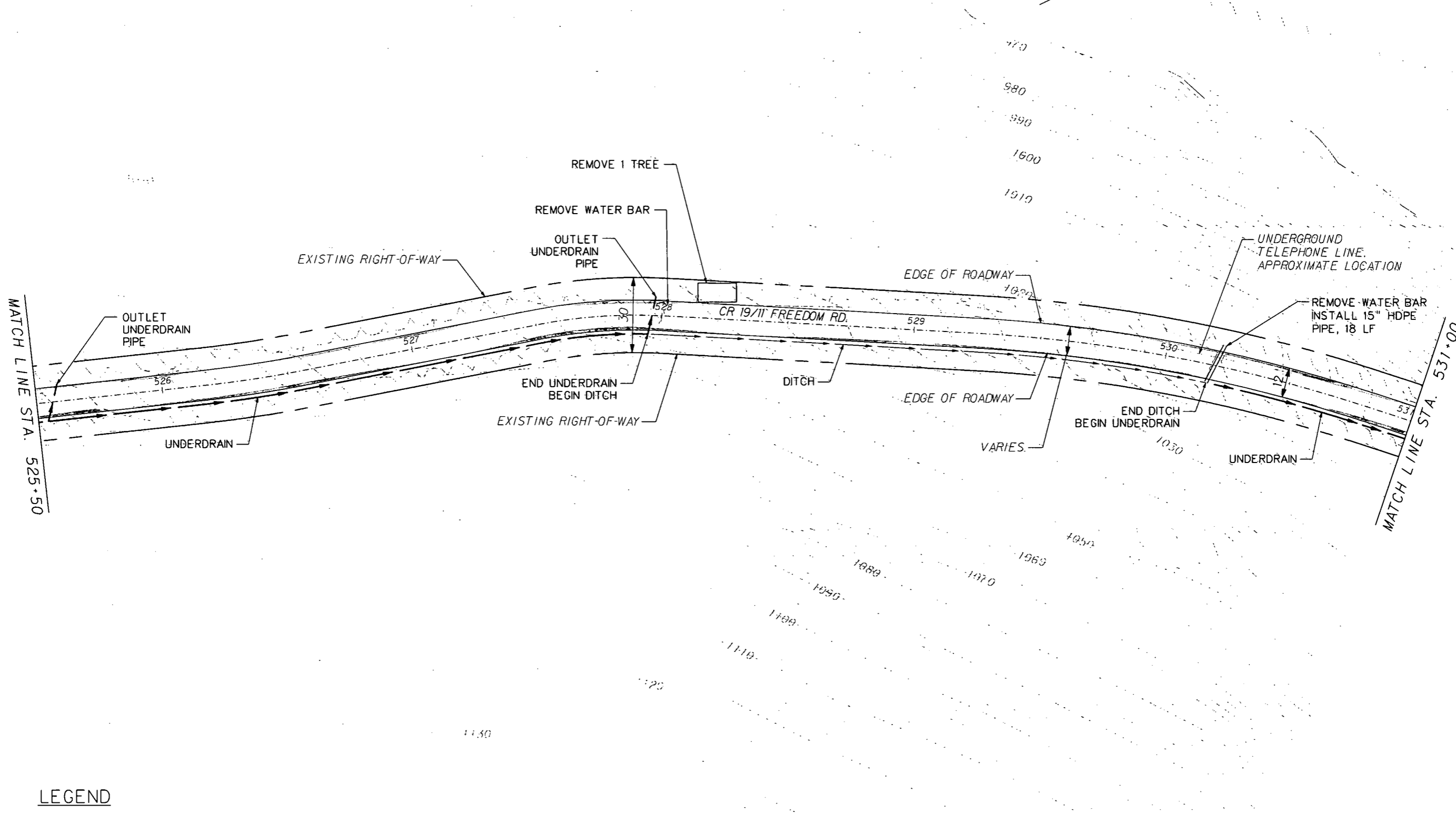
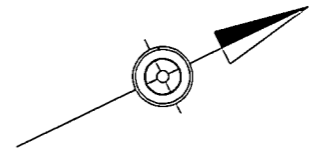
- LEGEND**
- → SHOULDERS AND DITCHES
  - UNDERDRAIN PIPE
  - ▭ PROPOSED WIDENING
  - ▨ ROADWAY BASE REPAIR
  - ▧ PROPOSED PRIVATE ROAD

SCALE : 0 20 ft.

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**PLAN SHEET**

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|-------------------|-----------------|-------------------|---------------------|-------------|-----------|-----------|--------------|
| W. V.             | 4               | X                 | X                   | 2013        | DODDRIDGE | 13        | 19           |



**LEGEND**

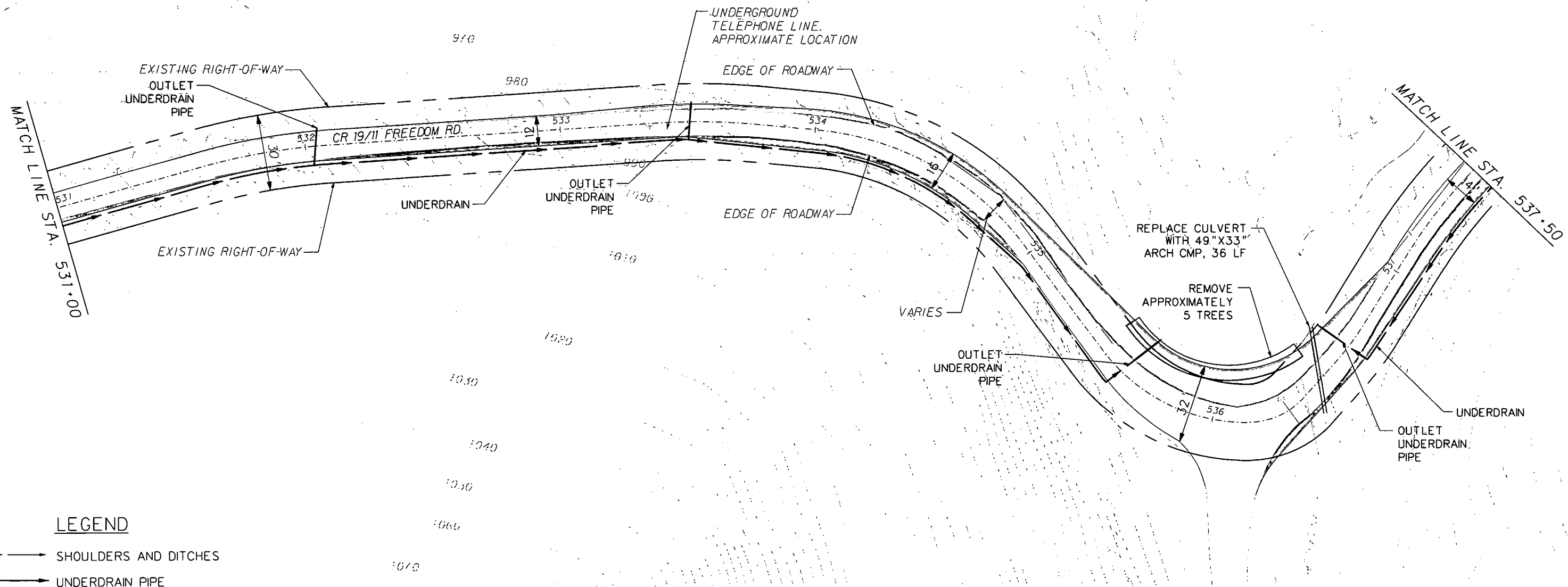
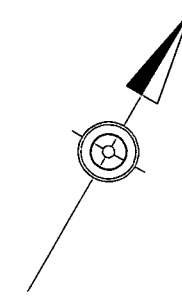
- → SHOULDERS AND DITCHES
- UNDERDRAIN PIPE
- ▭ PROPOSED WIDENING
- ▨ ROADWAY BASE REPAIR
- ▧ PROPOSED PRIVATE ROAD

SCALE : 0 20 ft.

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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
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**LEGEND**

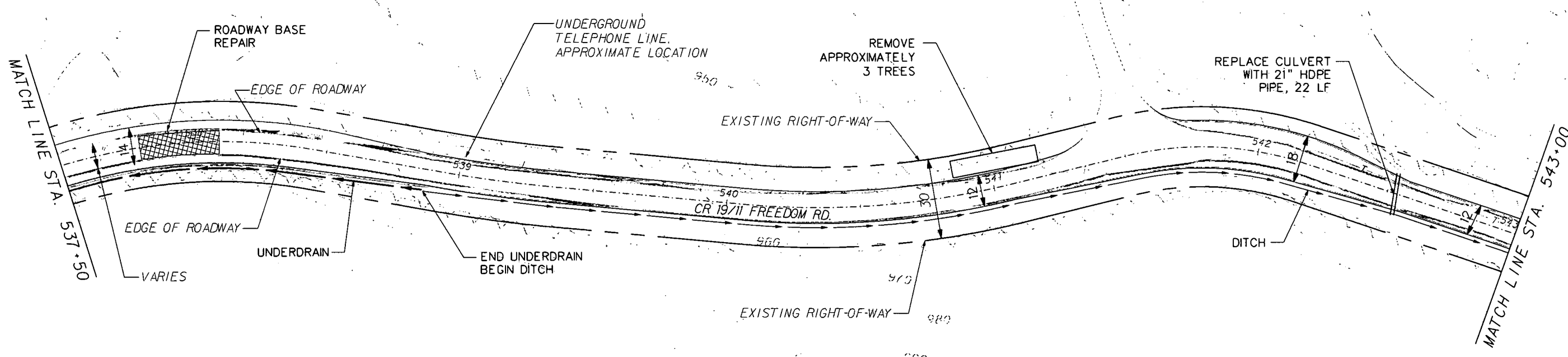
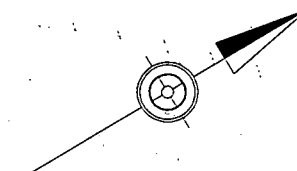
- → SHOULDERS AND DITCHES
- → UNDERDRAIN PIPE
- ▭ PROPOSED WIDENING
- ▨ ROADWAY BASE REPAIR
- ▧ PROPOSED PRIVATE ROAD

SCALE : 0 20 ft.

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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
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**LEGEND**

- → SHOULDERS AND DITCHES
- UNDERDRAIN PIPE
- [---] PROPOSED WIDENING
- [Hatched Box] ROADWAY BASE REPAIR
- [Diagonal Lines Box] PROPOSED PRIVATE ROAD

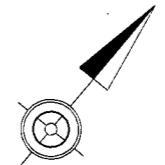
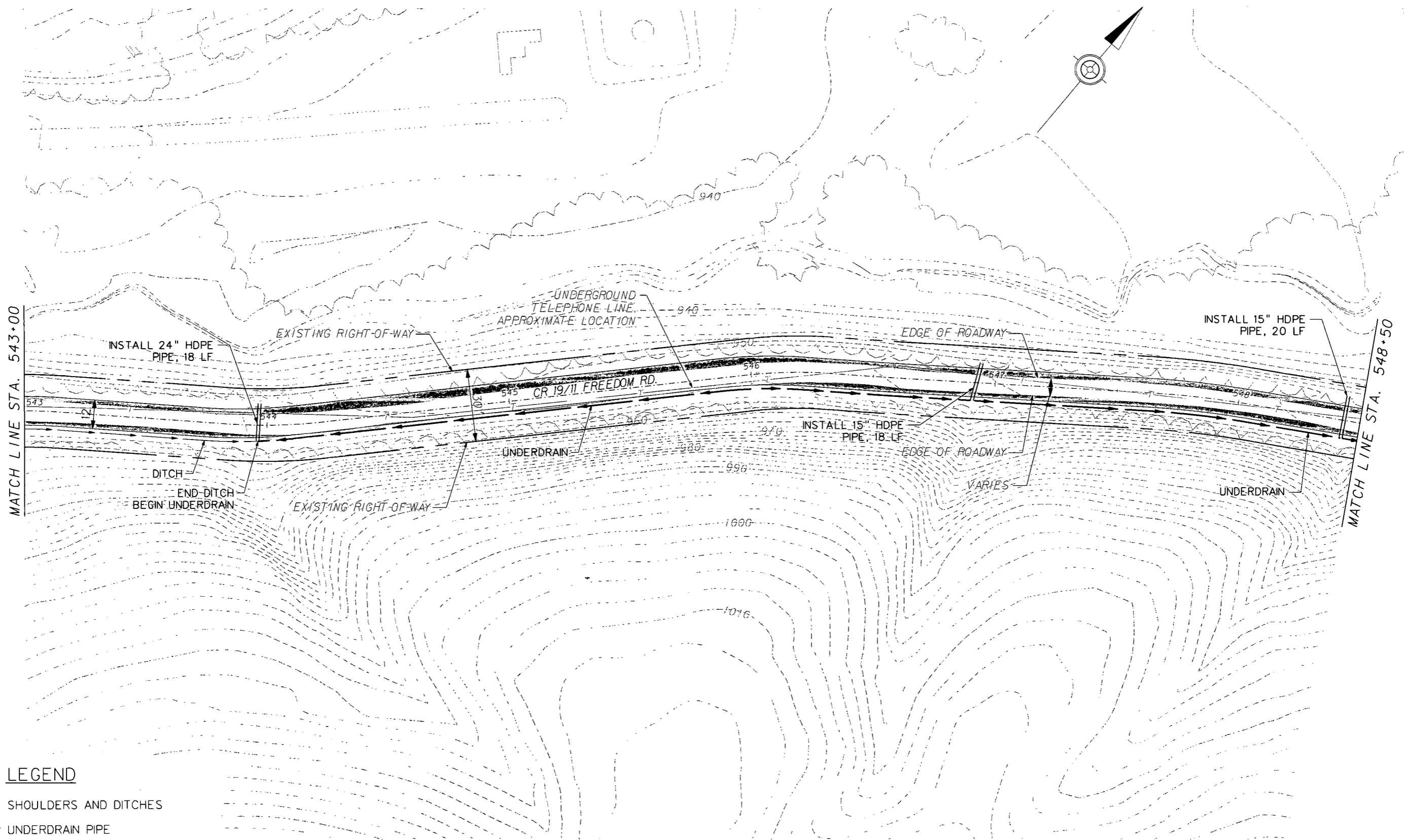
SCALE : 0 20 ft.

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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PLAN SHEET**

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**LEGEND**

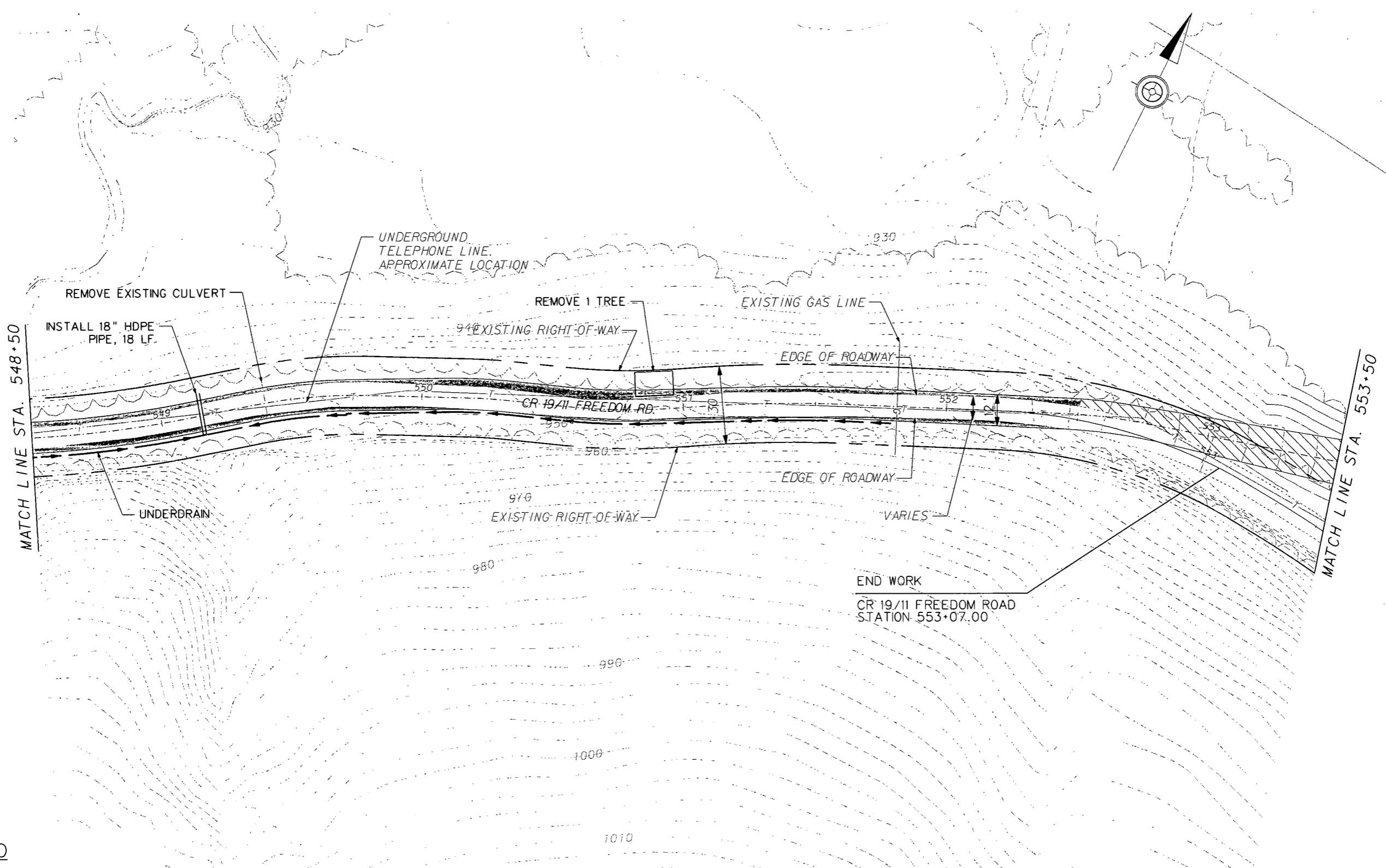
- → SHOULDERS AND DITCHES
- → UNDERDRAIN PIPE
- ▨ PROPOSED WIDENING
- ▨ ROADWAY BASE REPAIR
- ▨ PROPOSED PRIVATE ROAD

SCALE : 0 20 ft.

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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PLAN SHEET**

|                   |                 |                   |                     |             |           |           |              |
|-------------------|-----------------|-------------------|---------------------|-------------|-----------|-----------|--------------|
| Public Roads Div. | State Dist. No. | State Project No. | Federal Project No. | Fiscal Year | County    | Sheet No. | Total Sheets |
| W. V.             | 4               | X                 | X                   | 2013        | DODDRIDGE | 17        | 19           |



**LEGEND**

- SHOULDERS AND DITCHES
- UNDERDRAIN PIPE
- ▨ PROPOSED WIDENING
- ▧ ROADWAY BASE REPAIR
- ▩ PROPOSED PRIVATE ROAD

SCALE : 0 20 ft.

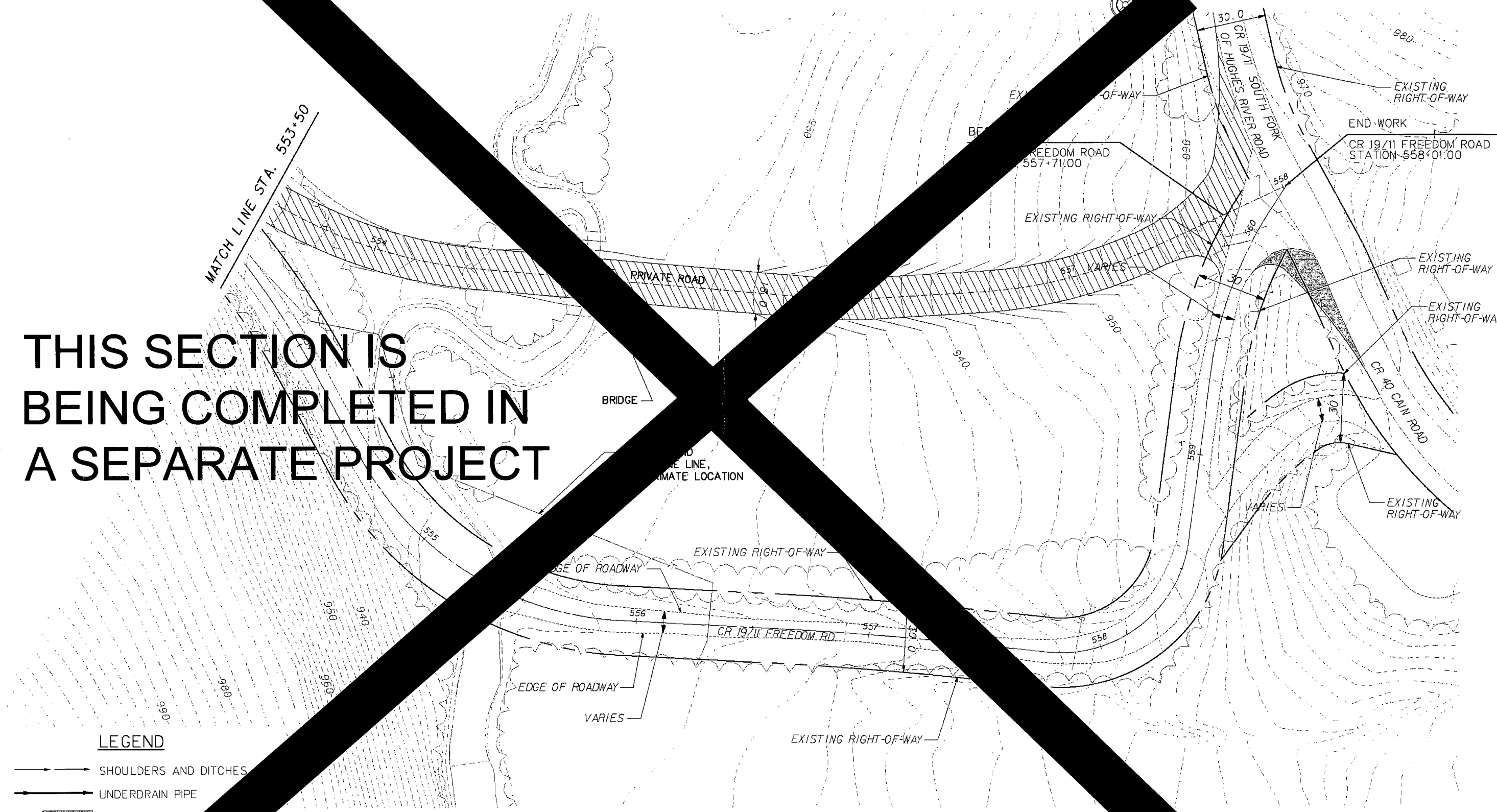
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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PLAN SHEET**

| Public Roads Div. | State Dist. No. | State Project No. | Federal Project No. | Fiscal Year | County    | Sheet No. | Total Sheets |
|-------------------|-----------------|-------------------|---------------------|-------------|-----------|-----------|--------------|
| W. V.             | 4               | X                 | X                   | 2013        | DODDRIDGE | 18        | 19           |

**THIS SECTION IS BEING COMPLETED IN A SEPARATE PROJECT**

MATCH LINE STA. 553+50



**LEGEND**

- SHOULDERS AND DITCHES
- UNDERDRAIN PIPE
- ▨ PROPOSED WIDENING
- ▩ ROADWAY BASE REF.
- ▧ PROPOSED PRIVATE ROAD

SCALE : 0 20 ft.

| REVISION NUMBER | SHEET NUMBER | REVISION | DATE | BY |
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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PLAN SHEET**

# EROSION & SEDIMENTATION POLLUTION CONTROL (E&S) NOTES:

| Public Roads Div. | State Dist. No. | State Project No. | Federal Project No. | Fiscal Year | County    | Sheet No. | Total Sheets |
|-------------------|-----------------|-------------------|---------------------|-------------|-----------|-----------|--------------|
| W. V.             | 4               | X                 | X                   | 2013        | DODDRIDGE | 19        | 19           |

## A. GENERAL EROSION AND SEDIMENT (E&S) CONTROL GUIDELINES

1. A COPY OF THIS PLAN SHALL BE KEPT AVAILABLE FOR INSPECTION ON THE CONSTRUCTION SITE AT ALL TIMES THROUGH THE STAGES OF THE PROJECT.
2. THE INTENT OF THIS PLAN IS TO INDICATE GENERAL MEANS OF COMPLIANCE WITH THE REQUIREMENTS OF THE RULES AND REGULATIONS OF THE CLEAN WATER ACT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IMPLEMENT THESE METHODS PLUS ADDITIONAL METHODS AS MAY BE NECESSARY BECAUSE OF THE CONDITIONS CREATED BY LOCALIZED SITE CONDITIONS, AND/OR CONSTRUCTION PROCEDURES IN ORDER TO ASSURE COMPLIANCE WITH APPLICABLE LAW. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL E&S FACILITIES SO THAT THEY PERFORM AS REQUIRED BY LAW.
3. IF SPOIL MATERIAL OR SOIL IS REMOVED FROM THE SITE THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE APPROPRIATE CONSERVATION DISTRICT AN E&S PLAN FOR THE SITE WHICH WILL RECEIVE THE SPOIL MATERIAL.
4. BEFORE INITIATING ANY REVISIONS TO THE APPROVED E&S PLANS OR REVISIONS TO ALTER PLANS WHICH MAY EFFECT THE EFFECTIVENESS OF THE APPROVED E&S PLAN, THE CONTRACTOR MUST RECEIVE APPROVAL FROM THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP).

## B. GENERAL E&S CONTROL METHODS/PROCEDURES

1. IN ALL CASES THE SMALLEST PRACTICAL AREA OF STABLE LAND SURFACE SHALL BE DISTURBED.
2. ALL RELATED E&S FACILITIES SHALL BE IN PLACE AND CAPABLE OF FUNCTIONING AS INTENDED PRIOR TO EARTH MOVING ACTIVITY WITHIN THEIR CONTRIBUTING WATERSHED AREAS.
3. DEWATERING EQUIPMENT DISCHARGE SHALL BE DIRECTED ONTO A STABILIZED SURFACE SO THAT EROSION DOES NOT OCCUR. DISCHARGES SHALL BE DIRECTED THROUGH A SEDIMENT FILTER STRUCTURE AND DISCHARGED IN A NON-EROSIVE MANNER.
4. SEDIMENT SPILLED, DROPPED OR TRACKED ONTO PAVED SURFACES SHALL BE REMOVED IMMEDIATELY.
5. AT THE END OF EACH WORKING DAY, ANY SEDIMENT TRACKED OR CONVEYED ONTO A PUBLIC ROADWAY WILL BE REMOVED AND RE-DEPOSITED ONTO THE CONSTRUCTION SITE. REMOVAL CAN BE COMPLETED THROUGH USE OF MECHANICAL OR HAND TOOLS, BUT MUST NEVER BE WASHED OFF THE ROAD BY USE OF WATER.
6. SEDIMENT REMOVED FROM THE E&S FACILITIES SHALL BE DISPOSED OF IN LANDSCAPED AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS, OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED OR PLACED IN TOPSOIL STOCKPILES. AN E&S PLAN SHALL BE SUBMITTED TO THE CONSERVATION DISTRICT FOR ALL OFF-SITE SPOIL AREAS.
7. ALL PUMPING OF SEDIMENT-LADEN WATER SHALL BE THROUGH A DIRT BAG FILTRATION DEVICE, OR EQUIVALENT SEDIMENT REMOVAL FACILITY, OVER NON-DISTURBED VEGETATED AREAS. DISCHARGE POINTS SHOULD BE ESTABLISHED TO PROVIDE FOR MAXIMUM DISTANCE TO ACTIVE WATERWAYS.
8. SHOULD UNFORESEEN EROSION CONDITIONS DEVELOP DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE ACTION TO REMEDY SUCH CONDITIONS AND TO PREVENT DAMAGE TO ADJACENT PROPERTIES AS A RESULT OF INCREASED RUNOFF AND/OR SEDIMENT DISPLACEMENT. STOCKPILES OF WOOD CHIPS, HAY BALES, CRUSHED STONE AND OTHER MULCHES SHALL BE IN READINESS TO DEAL IMMEDIATELY WITH EMERGENCY PROBLEMS OF EROSION.
9. STOCKPILE HEIGHTS MUST NOT EXCEED 35'. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.
10. ANY DISTURBED AREA ON WHICH ACTIVITY HAS CEASED MUST BE STABILIZED IMMEDIATELY DURING NON-GERMINATION PERIODS. MULCH MUST BE APPLIED AT THE RECOMMENDED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE RE-DISTURBED WITHIN ONE YEAR MAY BE STABILIZED IN ACCORDANCE WITH TEMPORARY SEEDING SPECIFICATIONS. DISTURBED AREAS, WHICH ARE EITHER AT FINISHED GRADE OR WILL NOT BE RE-DISTURBED WITHIN ONE YEAR, MUST BE STABILIZED IN ACCORDANCE WITH PERMANENT SEEDING SPECIFICATIONS.
11. STABILIZATION OF ALL AREAS PROTECTED BY INTERIM CONTROL MEASURES/FACILITIES SHALL BE TO THE PERMANENT STRUCTURAL CONDITION OR 70% UNIFORM PERENNIAL VEGETATION BEFORE THE INTERIM MEASURES/FACILITIES CAN BE REMOVED.
12. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE WVDEP REGULATIONS RELATING TO SOLID WASTE DISPOSAL/RECYCLING.

## C. GENERAL E&S CONTROL METHODS/PROCEDURES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL E&S MEASURES. IF EROSION CONTROL MEASURES FAIL OR OTHER EROSION PROBLEMS ARISE, THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION TO CORRECT AND ELIMINATE THEM BEFORE THEY DEVELOP INTO UNMANAGEABLE PROBLEMS.
2. UNTIL THE SITE IS STABILIZED, ALL E&S BMPs MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL E&S BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RESETTING MUST BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMPs FAIL TO PERFORM AS SPECIFIED, REPLACEMENT BMPs OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED. ANY AREAS DISTURBED BY REMOVAL OF CONTROLS SHALL BE REPAIRED, STABILIZED AND PERMANENTLY SEEDED.

## D. RESTORATION OF PLANTING AREAS

1. IF EARTH DISTURBANCE OCCURS DURING THE MONTHS OF NOVEMBER THROUGH MARCH, THEN AROOSTOOK WINTER RYE SHALL BE APPLIED TO DISTURBED AREAS AS A TEMPORARY SEED MIXTURE. IF STABILIZATION CANNOT BE ACHIEVED WITH AROOSTOOK WINTER RYE, THEN MULCH WITH TACKIFIER SHALL BE APPLIED TO DISTURBED AREAS. MULCH SHALL BE CLEAN OAT OR WHEAT STRAW AND SHALL BE APPLIED AT THE RATE OF TWO (2) TONS PER ACRE. TACKIFIER SHALL BE APPLIED AT THE MANUFACTURER'S APPLIED RATE. AREAS THAT LOSE THE MULCH COVER SHALL BE REMULCHED.
2. FINAL RESTORATION SHALL BE PERFORMED NO LATER THAN THE START OF THE NEXT PLANTING SEASON FOLLOWING CONSTRUCTION. THE PLANTING SEASON SHALL BE AS ESTABLISHED BY THE U.S. AGRICULTURAL SERVICE FOR THE AREA OF CONSTRUCTION.
3. TOPSOIL SHALL BE FREE FROM SUBSOIL, BRUSH, WEEDS, OR OTHER LITTER, CLAY LUMPS AND STONES BUT MAY CONTAIN DECAYING VEGETABLE MATTER AS IS PRESENT IN GOOD TOPSOIL.
4. PRECAUTIONS SHALL BE EXERCISED AS NECESSARY TO CONFORM WITH LAWS RELATING TO EROSION AND SEDIMENT CONTROL.
5. SEED SHALL BE NOT MORE THAN TWO (2) YEARS OLD. GERMINATION TESTS OF SEEDS SHALL BE MADE NOT MORE THAN SIX (6) MONTHS PRIOR TO SEEDING. SEED THAT HAS BECOME WET, MOLDY, OR OTHERWISE DAMAGED SHALL NOT BE USED.
6. ALL SEED MIXTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO SEEDING.
7. THE CONTRACTOR SHALL BE RESPONSIBLE TO PRODUCE A STRAND OF GRASS IN ALL SEEDED OR SODDED AREAS. EROSION, DROUGHT, OR ANY OTHER CONDITION ENCOUNTERED SHALL NOT RELIEVE THE CONTRACTOR OF THIS REQUIREMENT.

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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**EROSION & SEDIMENT  
CONTROL NOTES**



| Public Roads Div. | State Dist. No. | State Project No. | Federal Project No. | Fiscal Year | County    | Sheet No. | Total Sheets |
|-------------------|-----------------|-------------------|---------------------|-------------|-----------|-----------|--------------|
| W. V.             | 4               | X                 | X                   | 2014        | DODDRIDGE | 1         | 12           |

WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
EROSION AND SEDIMENT CONTROL PLAN  
FOR  
STATE HIGHWAY  
COUNTY ROUTE 19/11  
DODDRIDGE COUNTY

**EROSION & SEDIMENT POLLUTION CONTROL (E&S) NOTES:**

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**STAHL  
SHEAFFER  
ENGINEERING, LLC**

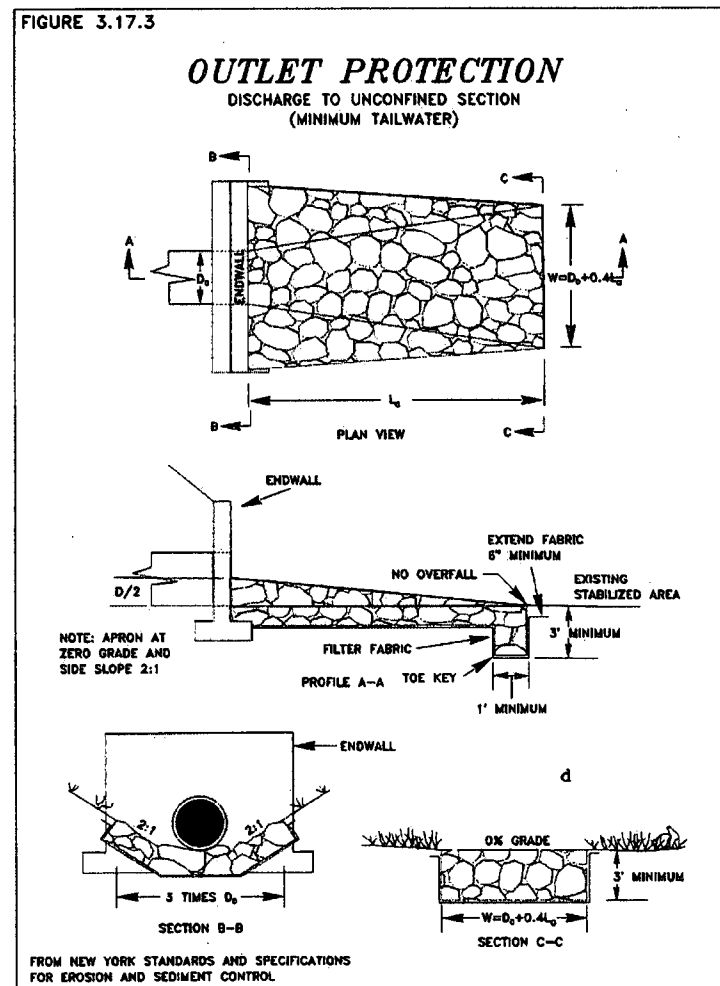
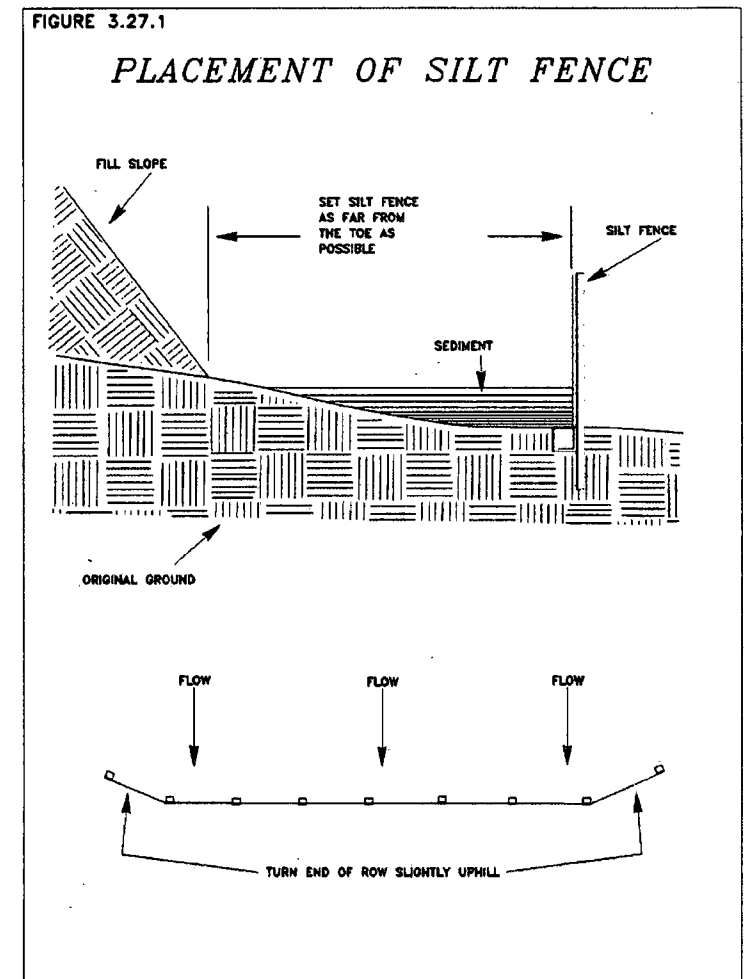
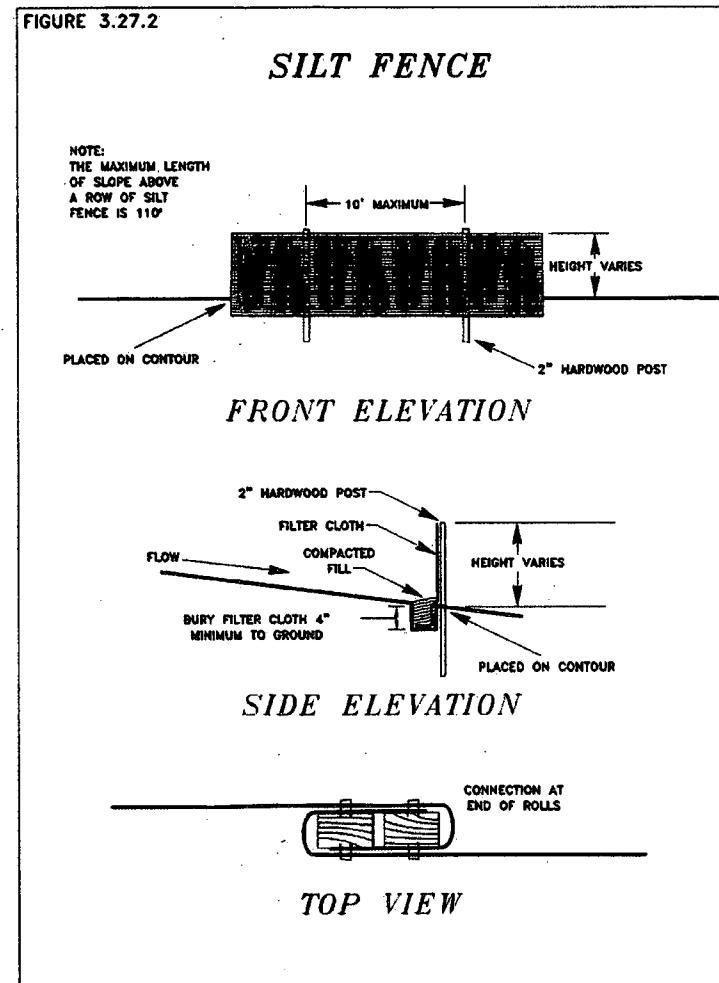
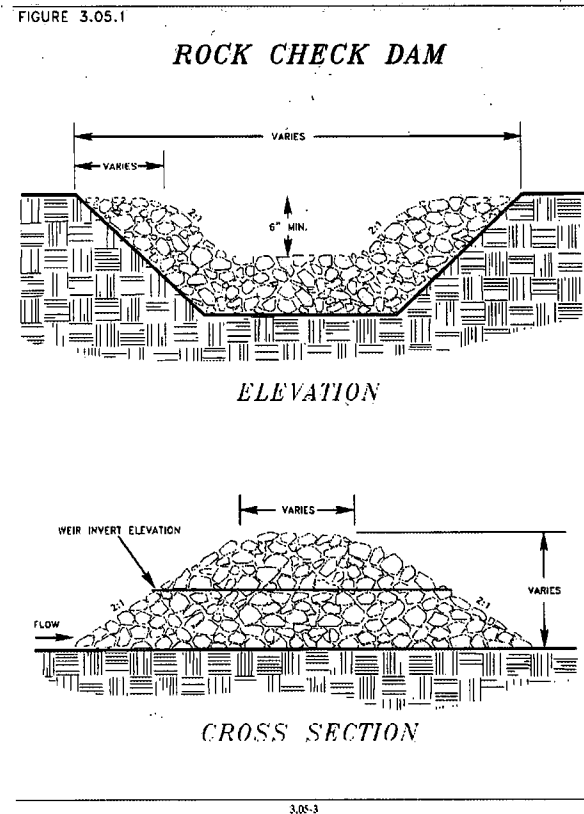
5000 WATERDAM ROAD, STE. 120  
MCMURRAY, PA 15317

PH: 724-960-1111  
FAX: 724-960-1162

WWW.SSE-LLC.COM



| Public Roads Div. | State Dist. No. | State Project No. | Federal Project No. | Fiscal Year | County    | Sheet No. | Total Sheets |
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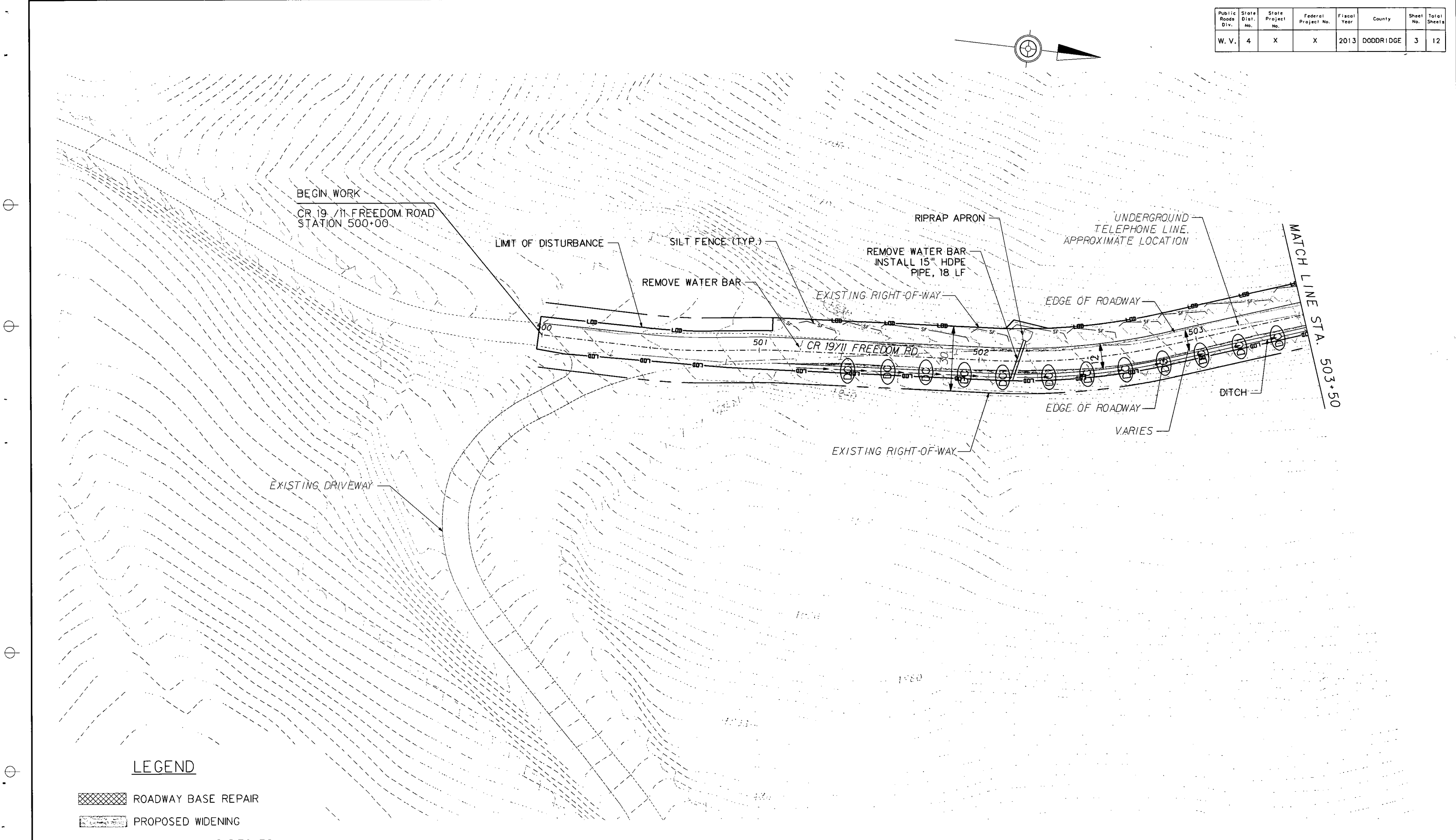
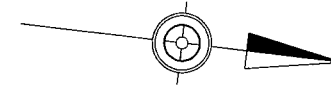


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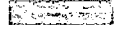
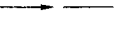


EROSION AND SEDIMENTATION CONTROL

DETAILS

|                   |                 |                   |                     |             |           |           |              |
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| Public Roads Div. | State Dist. No. | State Project No. | Federal Project No. | Fiscal Year | County    | Sheet No. | Total Sheets |
| W. V.             | 4               | X                 | X                   | 2013        | DODDRIDGE | 3         | 12           |



**LEGEND**

-  ROADWAY BASE REPAIR
-  PROPOSED WIDENING
-  SHOULDERS AND DITCHES
-  UNDERDRAIN PIPE
-  DITCH CHECK

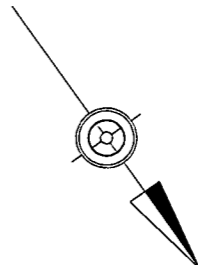
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EROSION AND SEDIMENTATION CONTROL

**PLAN SHEET**

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| W. V.             | 4               | X                 | X                   | 2013        | DODDRIDGE | 4         | 12           |



MATCH LINE STA. 503+50

MATCH LINE STA. 509+50

CR. 1971 FREEDM. RD.

UNDERGROUND TELEPHONE LINE. APPROXIMATE LOCATION.

LIMIT OF DISTURBANCE

RIPRAP APRON

REMOVE WATER BAR  
INSTALL 15" HDPE PIPE, 20 LF

RIPRAP APRON

SILT FENCE (TYP.)

EXISTING RIGHT-OF-WAY

EDGE OF ROADWAY

LIMIT OF DISTURBANCE

REMOVE WATER BAR  
INSTALL 18" HDPE PIPE, 20 LF

EXISTING RIGHT-OF-WAY


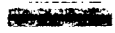
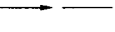
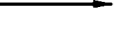

EDGE OF ROADWAY

VARIES

ROADWAY BASE REPAIR

DITCH

**LEGEND**

-  ROADWAY BASE REPAIR
-  PROPOSED WIDENING
-  SHOULDERS AND DITCHES
-  UNDERDRAIN PIPE
-  DITCH CHECK

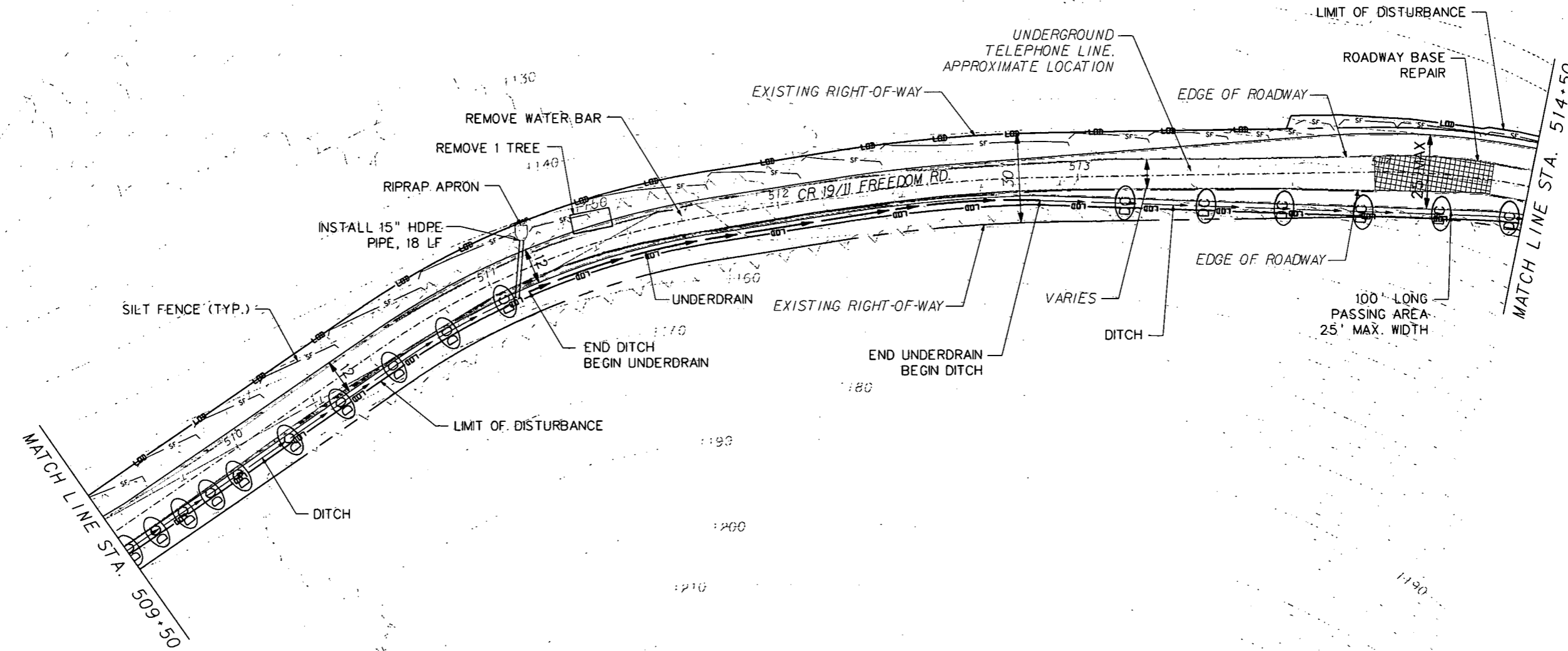
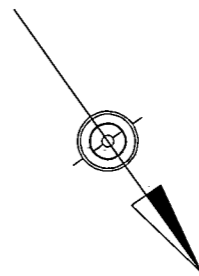
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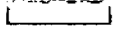
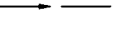
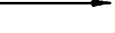

EROSION AND SEDIMENTATION CONTROL

**PLAN SHEET**

| Public Road Dist. | State Dist. No. | State Project No. | Federal Project No. | Fiscal Year | County    | Sheet No. | Total Sheets |
|-------------------|-----------------|-------------------|---------------------|-------------|-----------|-----------|--------------|
| W. V.             | 4               | X                 | X                   | 2013        | DODDRIDGE | 5         | 12           |



**LEGEND**

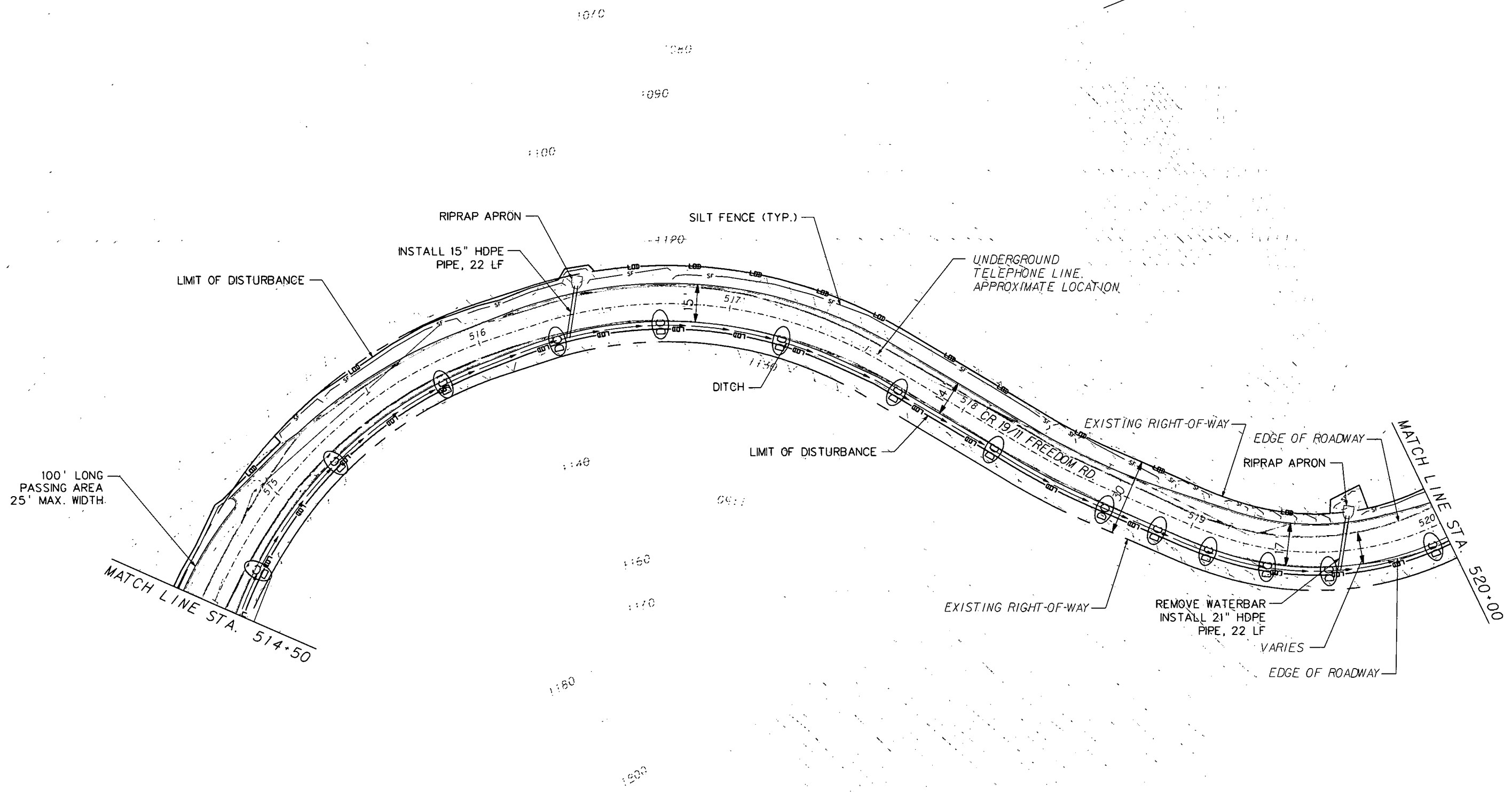
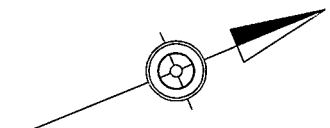
-  ROADWAY BASE REPAIR
-  PROPOSED WIDENING
-  SHOULDERS AND DITCHES
-  UNDERDRAIN PIPE
-  DITCH CHECK

SCALE : 0 20 ft.

| REVISION NUMBER | SHEET NUMBER | REVISION | DATE | BY |
|-----------------|--------------|----------|------|----|
|                 |              |          |      |    |
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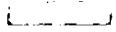
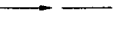


EROSION AND SEDIMENTATION CONTROL  
**PLAN SHEET**

|                   |                 |                   |                     |             |           |           |              |
|-------------------|-----------------|-------------------|---------------------|-------------|-----------|-----------|--------------|
| Public Roads Div. | State Dist. No. | State Project No. | Federal Project No. | Fiscal Year | County    | Sheet No. | Total Sheets |
| W. V.             | 4               | X                 | X                   | 2013        | DODDRIDGE | 6         | 12           |



100' LONG PASSING AREA  
25' MAX. WIDTH.

**LEGEND**

-  ROADWAY BASE REPAIR
-  PROPOSED WIDENING
-  SHOULDERS AND DITCHES
-  UNDERDRAIN PIPE
-  DITCH CHECK

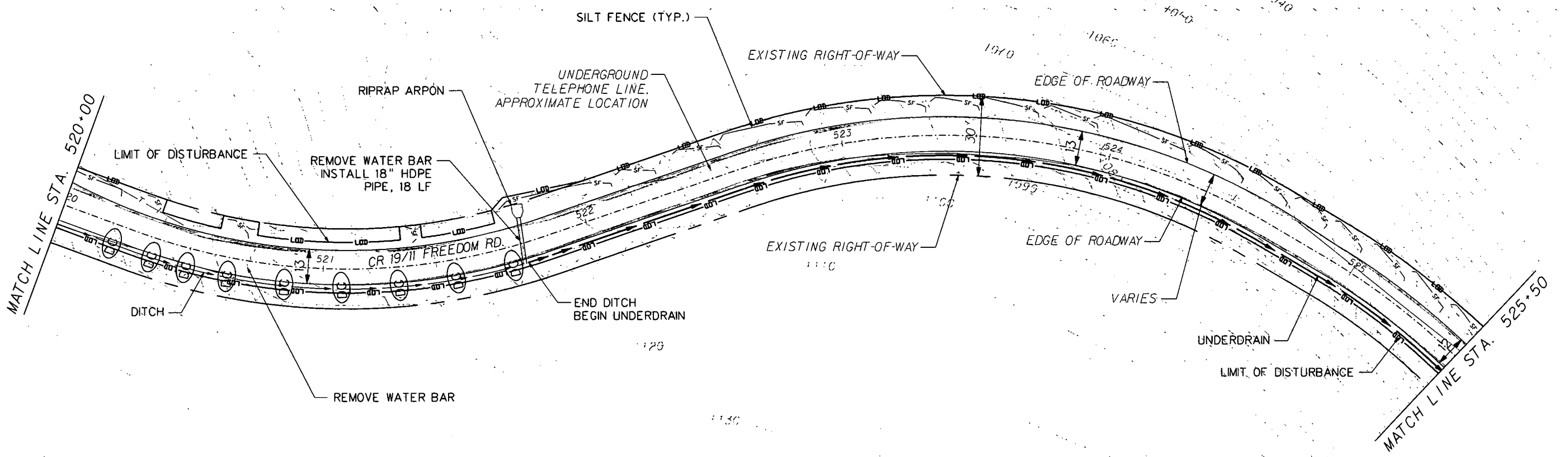
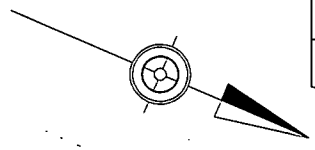
SCALE : 0 20 ft.

| REVISION NUMBER | SHEET NUMBER | REVISION | DATE | BY |
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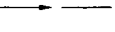
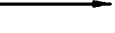

EROSION AND SEDIMENTATION CONTROL

**PLAN SHEET**

|                   |                 |                   |                     |             |           |           |              |
|-------------------|-----------------|-------------------|---------------------|-------------|-----------|-----------|--------------|
| Public Roads Div. | State Dist. No. | State Project No. | Federal Project No. | Fiscal Year | County    | Sheet No. | Total Sheets |
| W. V.             | 4               | X                 | X                   | 2013        | DODDRIDGE | 7         | 12           |



**LEGEND**

-  ROADWAY BASE REPAIR
-  PROPOSED WIDENING
-  SHOULDERS AND DITCHES
-  UNDERDRAIN PIPE
-  DITCH CHECK

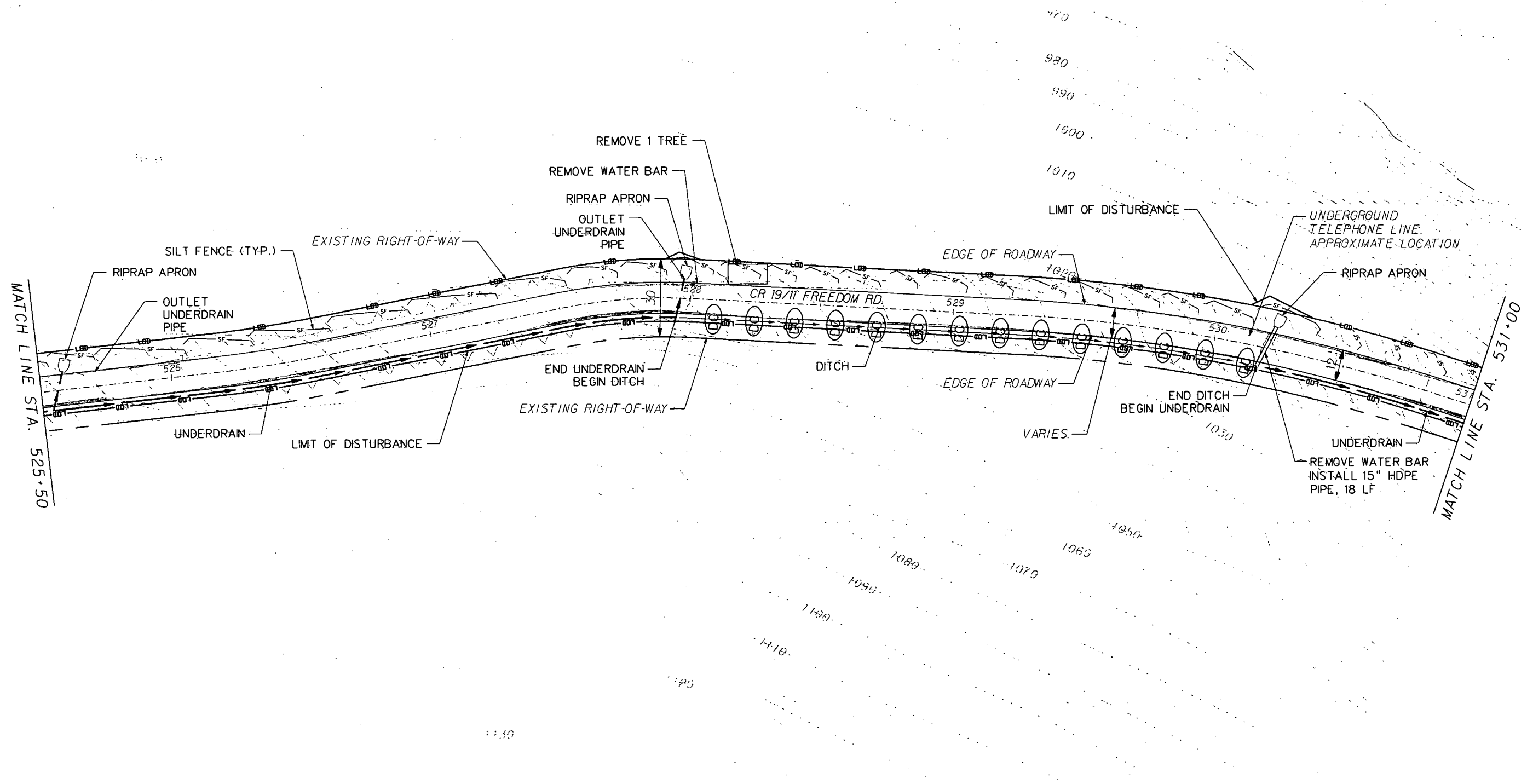
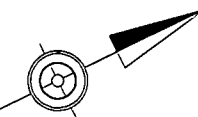
SCALE : 0 20 ft.

| REVISION NUMBER | SHEET NUMBER | REVISION | DATE | BY |
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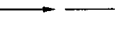


EROSION AND SEDIMENTATION CONTROL

**PLAN SHEET**

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| Public Roads Div. | State Dist. No. | State Project No. | Federal Project No. | Fiscal Year | County    | Sheet No. | Total Sheets |
| W. V.             | 4               | X                 | X                   | 2013        | DODDRIDGE | 8         | 12           |



**LEGEND**

-  ROADWAY BASE REPAIR
-  PROPOSED WIDENING
-  SHOULDERS AND DITCHES
-  UNDERDRAIN PIPE
-  DITCH CHECK

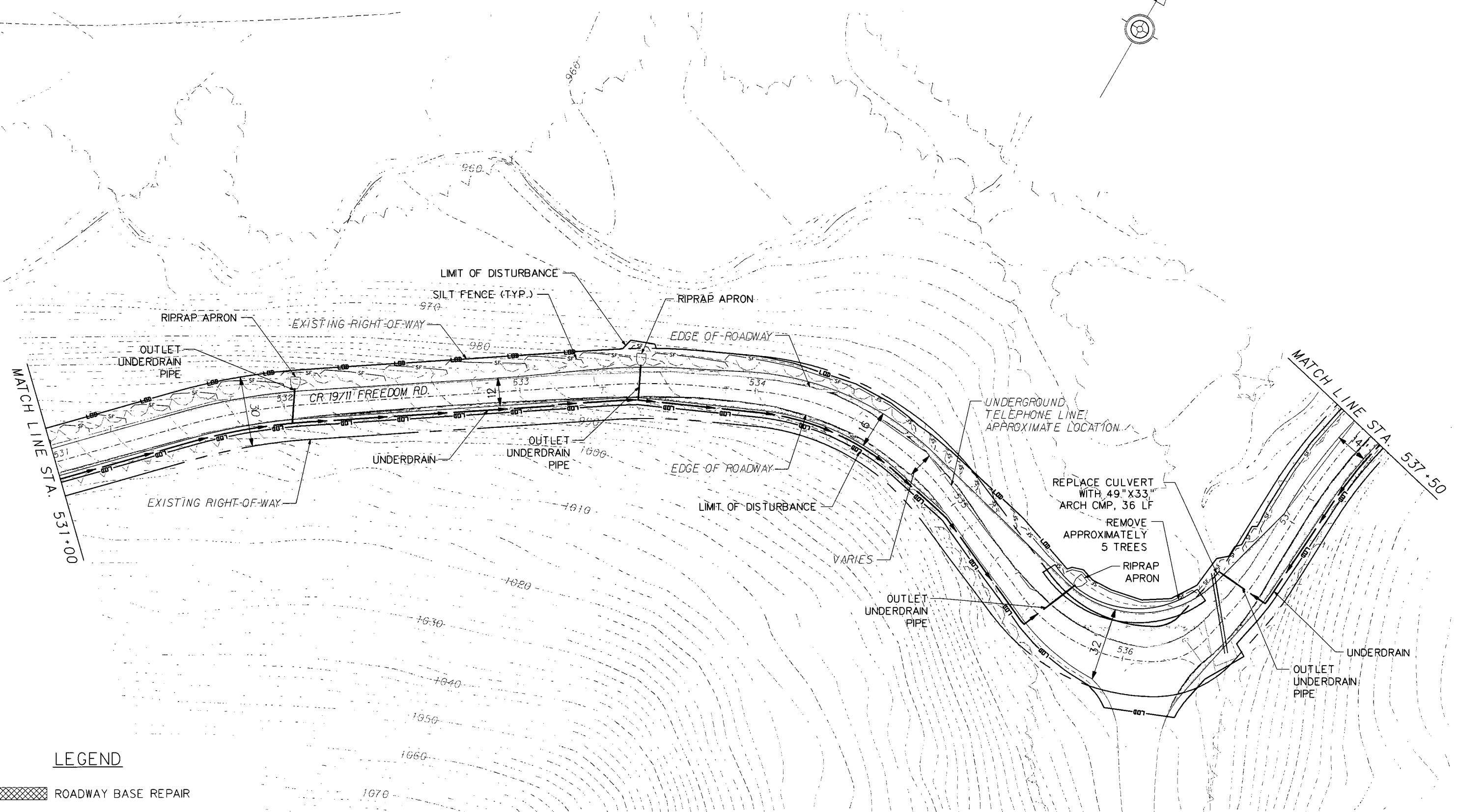
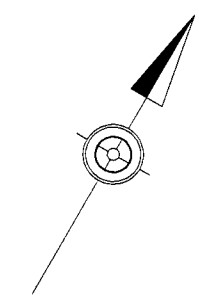
SCALE : 0 20 ft.

| REVISION NUMBER | SHEET NUMBER | REVISION | DATE | BY |
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EROSION AND SEDIMENTATION CONTROL  
**PLAN SHEET**



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|-------------------|-----------------|-------------------|---------------------|-------------|-----------|-----------|--------------|
| Public Roads Div. | State Dist. No. | State Project No. | Federal Project No. | Fiscal Year | County    | Sheet No. | Total Sheets |
| W. V.             | 4               | X                 | X                   | 2013        | DODDRIDGE | 9         | 12           |



**LEGEND**

- ROADWAY BASE REPAIR
- PROPOSED WIDENING
- SHOULDERS AND DITCHES
- UNDERDRAIN PIPE
- DITCH CHECK

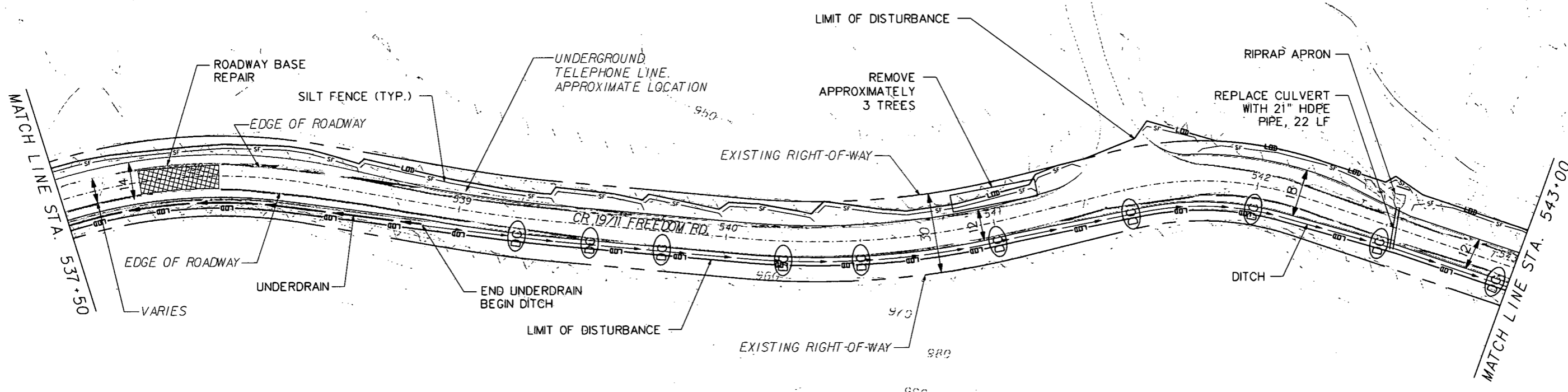
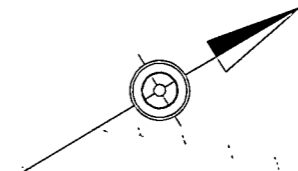
SCALE : 0 20 ft.

| REVISION NUMBER | SHEET NUMBER | REVISION | DATE | BY |
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EROSION AND SEDIMENTATION CONTROL

**PLAN SHEET**

| Public Roads Div. | State Dist. No. | State Project No. | Federal Project No. | Fiscal Year | County    | Sheet No. | Total Sheets |
|-------------------|-----------------|-------------------|---------------------|-------------|-----------|-----------|--------------|
| W. V.             | 4               | X                 | X                   | 2013        | DODDRIDGE | 10        | 12           |


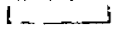
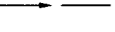




MATCH LINE STA. 537+50

MATCH LINE STA. 543+00

CR 19711 FREEDOM RD

**LEGEND**

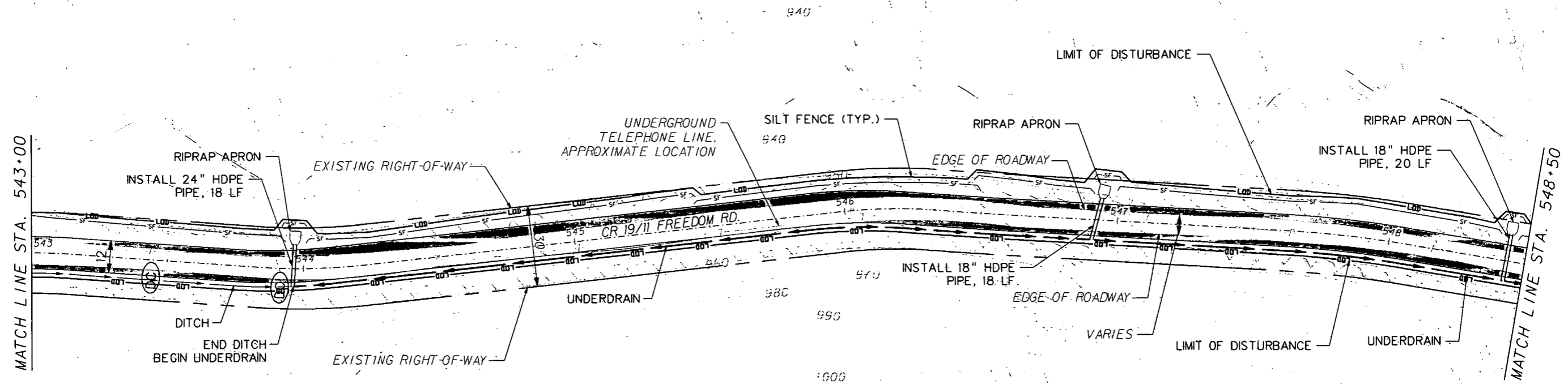
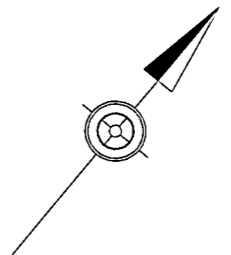
-  ROADWAY BASE REPAIR
-  PROPOSED WIDENING
-  SHOULDERS AND DITCHES
-  UNDERDRAIN PIPE
-  DITCH CHECK

SCALE : 0 20 ft.



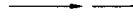


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EROSION AND SEDIMENTATION CONTROL  
**PLAN SHEET**

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|-------------------|-----------------|-------------------|---------------------|-------------|-----------|-----------|--------------|
| Public Roads Div. | State Dist. No. | State Project No. | Federal Project No. | Fiscal Year | County    | Sheet No. | Total Sheets |
| W. V.             | 4               | X                 | X                   | 2013        | DODDRIDGE | 11        | 12           |



**LEGEND**

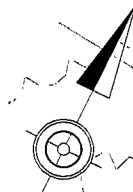
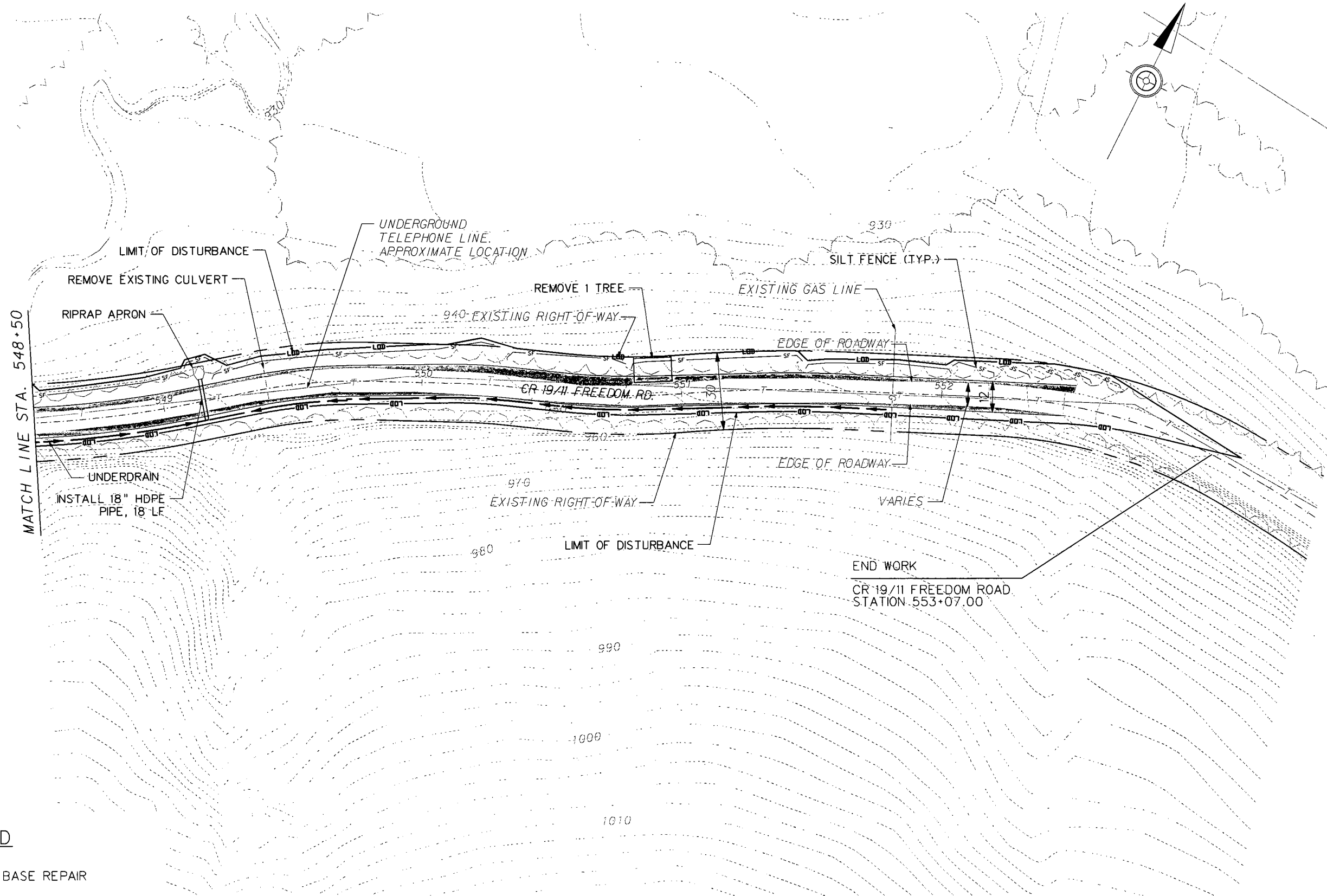
-  ROADWAY BASE REPAIR
-  PROPOSED WIDENING
-  SHOULDERS AND DITCHES
-  UNDERDRAIN PIPE
-  DITCH CHECK

SCALE : 0 20 ft.


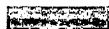
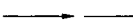


| REVISION NUMBER | SHEET NUMBER | REVISION | DATE | BY |
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EROSION AND SEDIMENTATION CONTROL  
**PLAN SHEET**

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|-------------------------|-----------------------|-------------------------|------------------------|----------------|-----------|--------------|-----------------|
| Public<br>Roads<br>Div. | State<br>Dist.<br>No. | State<br>Project<br>No. | Federal<br>Project No. | Fiscal<br>Year | County    | Sheet<br>No. | Total<br>Sheets |
| W. V.                   | 4                     | X                       | X                      | 2013           | DODDRIDGE | 12           | 12              |



**LEGEND**

-  ROADWAY BASE REPAIR
-  PROPOSED WIDENING
-  SHOULDERS AND DITCHES
-  UNDERDRAIN PIPE
-  DITCH CHECK

SCALE : 0 20 ft.

| REVISION NUMBER | SHEET NUMBER | REVISION | DATE | BY |
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EROSION AND SEDIMENTATION CONTROL

**PLAN SHEET**