



Floodplain Development Permit

Doddridge County, WV Floodplain Management

This permit gives approval for the development/ project listed that impacts the FEMA-designated floodplain and/or floodway of Doddridge County, WV, pursuant to the rules and regulations established by all applicable Federal, State and local laws and ordinances, including the Doddridge County Floodplain Ordinance. This permit must be posted at the site of work as to be clearly visible and must remain posted during entirety of development.

Permit: #19-555

Date Approved: July 22, 2019

Expires: July 22, 2020

Issued to: MarkWest Liberty Midstream & Resources, LLC

POC: Richard Lowry

Company Address: 320 South View Drive, Suite 200 Bridgeport, WV 26330

Project Address: Smithburg to Sherwood Pipeline

Firm: 54017C0140C

Lat/Long: 39.275426N, -80.689417W

Purpose of Development: Pipeline Project

Issued by: George C. Eidel, CFM, OEM Director/Doddridge County FPM (or designee)

Date: July 22, 2019

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

COPY COPY COPY

KLEINFELDER OFFICE CHECKING
550 WEST C STREET SUITE 1200
SAN DIEGO, CA 92101

19-10/1250

10310

COPY

DATE 6/26/19

COPY
PAID TO THE
ORDER OF

Doddridge County Commission

\$ 1,000.00

One - thousand

and 00/100

DOLLARS



Security Features Included. Details on back.

usbank.

FOR Mark West Smithburg Floodplain

COPY

[Signature]
AUTHORIZED SIGNATURE

SECURE SAFEGUARD SECURE SAFEGUARD

COPY

⑈010310⑈ ⑆125000105⑆ 157519869794⑈

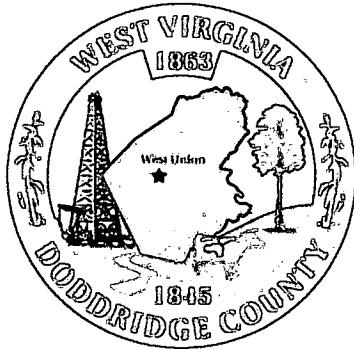
THIS PAGE OF THIS DOCUMENT CONTAINS HEAT SENSITIVE INK. TOUCH OR RUB RED IMAGE. IT WILL DISAPPEAR WITH HEAT.

COPY

FLOODPLAIN PERMIT #19-555

Mark West Liberty Midstream LLC, 218 Swisher Ln. Smithburg to Sherwood Pipeline 39.275426, -80.689417

TASK	COMPLETE (DATE)	NOTES
<i>CHECK RECEIVED</i>	6/27/2019	
<i>US ARMY CORP. ENGINEERS (USACE)</i>		
<i>US FISH & WILDLIFE SERVICES (USFWS)</i>		
<i>WV DEPT. NATURAL RESOURCES (WVDNR)</i>		
<i>WV DEPT. ENVIROMENTAL PROTECTION (WVDEP)</i>		
<i>STATE HISTORIC & PRESERVATION OFFICE (SHPO)</i>		
<i>OFFICE of LAND & STREAM (OLS)</i>		
<i>DATE OF COMMISSION READING</i>	7/2/2019	
<i>DATE AVAILABLE TO BE GRANTED</i>	7/22/2019	
<i>PERMIT GRANTED</i>		
<i>COMPLETE</i>		



Doddridge County Floodplain Permits

(Week of July 1, 2019)

Please take notice that on the (27th) of (June), 2019, (Mark West Liberty Midstream LLC) filed an application for a Floodplain Permit (#19-555) to develop land located at or about (218 Swisher Ln); Coordinates: 39.275426, -80.689417. The Application is on file with the Floodplain Manager of the County and may be inspected or copied during regular business hours in accordance to WV Code Chapter 29B Freedom of Information, Article 1 Public Records and county policy and procedures. Any interested persons who desire to comment shall present the same in writing by (July 22, 2019) (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Floodplain Manager of the County at 105 Court Street, Suite #3, West Union, WV 26456. This project is the Smithburg to Sherwood Pipeline project


GEORGE C. EIDEL, CFM

Doddridge County Floodplain Manager



JUN27 19 11:35AM

TRANSMITTAL

To:

Mr. George Eidel
Floodplain Manager
105 Court Street, Suite #3
West Union, WV 26456

Date: June 26, 2019

Reference No: 20200614.001A

cc: Project File

Document Control No. PGH19097321

Subject:

Floodplain Permit Application
MarkWest Liberty Midstream & Resources, LLC
Smithburg to Sherwood Liquid Lines
Doddridge County, West Virginia



Attached



Under separate cover

Via:

- Messenger/Courier
- First Class Mail
- FedEx
- United Parcel
- DHL
- Lone Star Overnight
- Freight
- Other

Transmitted:

- As Requested
- For Approval
- For Your Use
- For Review & Comment

Remarks:

Please find the following documents to facilitate your review of the above referenced application:

Attachment A – Floodplain Application

Attachment B – Site Plan

Attachment C – Location Exhibits

In addition, enclosed is a check in the amount of \$1,000.00 for the floodplain application fee.

Calculations used to determine this fee are included as Attachment D.

By: **Matt Albright**
Project Manager

ATTACHMENT A
FLOODPLAIN APPLICATION



Permit# 19-555
Project Smithburg to Sherwood Pipeline
Name: _____
Permittees Name: Markwest Liberty
Midstream LLC

JUN 27 19 11:35 AM

Doddridge County, WV

Floodplain Development Permit Application

This document is to be used for projects that impact/potentially impact the FEMA---designated floodplain and/or floodway of Doddridge County, WV pursuant to the rules and regulations established by all applicable Federal, State and local laws and ordinances, including the Doddridge County Floodplain Ordinance.

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. The permit will expire if no work is commenced within six months of issuance.
5. Applicant is hereby informed that other permits may be required to fulfill local, state, and federal requirements.
6. Applicant hereby gives consent to the Floodplain Administrator/Manager or his/her representative to make inspections to verify compliance.
7. 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 6/26/19

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Applicant Information:

Please provide all pertinent data.

Applicant Information		
Responsible Company Name: MarkWest Liberty Midstream & Resources, LLC		
Corporate Mailing Address: 4600 J. Barry Ct., Suite 500		
City: Canonsburg	State: PA	Zip: 15317
Corporate Point of Contact (POC): Richard Lowry		
Corporate POC Title: Environmental Manager - New Construction		
Corporate POC Primary Phone: (724) 416-0520		
Corporate POC Primary Email: RALowry@marathonpetroleum.com		
Corporate FEIN: 30-0528059	Corporate DUNS: N/A	
Corporate Website: N/A		
Local Mailing Address: 320 South View Dr., Suite 200		
City: Bridgeport	State: WV	Zip: 26330
Local Project Manager (PM): Dustin Vincent		
Local PM Primary Phone: (304) 842-2034		
Local PM Secondary Phone: (304) 638-8134		
Local PM Primary Email: DBVincent@marathonpetroleum.com		
Person Filing Application: Richard Lowry		
Applicant Title: Environmental Manager - New Construction		
Applicant Primary Phone: (724) 416-0520		
Applicant Secondary Phone: (724) 925-8165		
Applicant Primary Email: RALowry@marathonpetroleum.com		

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Proposed Development:

Please check all elements of the proposed project that apply.

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 Alteration (including dredging and channel modification)
- Drainage Improvements (including culvert work)
- Road, Street, or Bridge Construction
- Subdivision (including new expansion)
- Individual Water or Sewer System
- Other (please specify)

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Development Site/Property Information:

Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)

Property Designation: 1 of 2

Site/Property Information:		
Legal Description: Old Route 50 Lot E [BUCKEYE; 218.32 AC] (See Tax Parcel Map for Location)		
Physical Address/911 Address: Old Route 50		
Decimal Latitude/Longitude: 39.275426, -80.689417		
DMS Latitude/Longitude: 39°16' 31.53" -80° 41' 21.90"		
District: 3 - Grant	Map: 19	Parcel: 32
Land Book Description: 09-03-0019-0032-0000		
Deed Book Reference: Book 380, Page 69		
Tax Map Reference: N/A		
Existing Buildings/Use of Property: Vacant Commercial Land		

Floodplain Location Data: (to be completed by Floodplain Manager or designee)			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
Is the development in the floodway?		Is the development in the floodplain?	
<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No Zone: _____	
Notes:			

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Development Site/Property Information:

Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)

Property Designation: 2 of 2

Site/Property Information:		
Legal Description: BUCKEYE 178.48 AC; (FARMED) (See Tax Parcel Map for Location)		
Physical Address/911 Address: Old Route 50		
Decimal Latitude/Longitude: 39.277315, -80.690712		
DMS Latitude/Longitude: 39°16' 38.33" -80° 41' 26.56"		
District: 3 - Grant	Map: 19	Parcel: 31
Land Book Description: N/A		
Deed Book Reference: Book 304, Page 355		
Tax Map Reference: 09-03-0019-0031-0000		
Existing Buildings/Use of Property: Active Farm		

Floodplain Location Data: (to be completed by Floodplain Manager or designee)			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
Is the development in the floodway?		Estimated BFE:	
Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No Zone: _____	
Notes:			

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Property Owner Data:

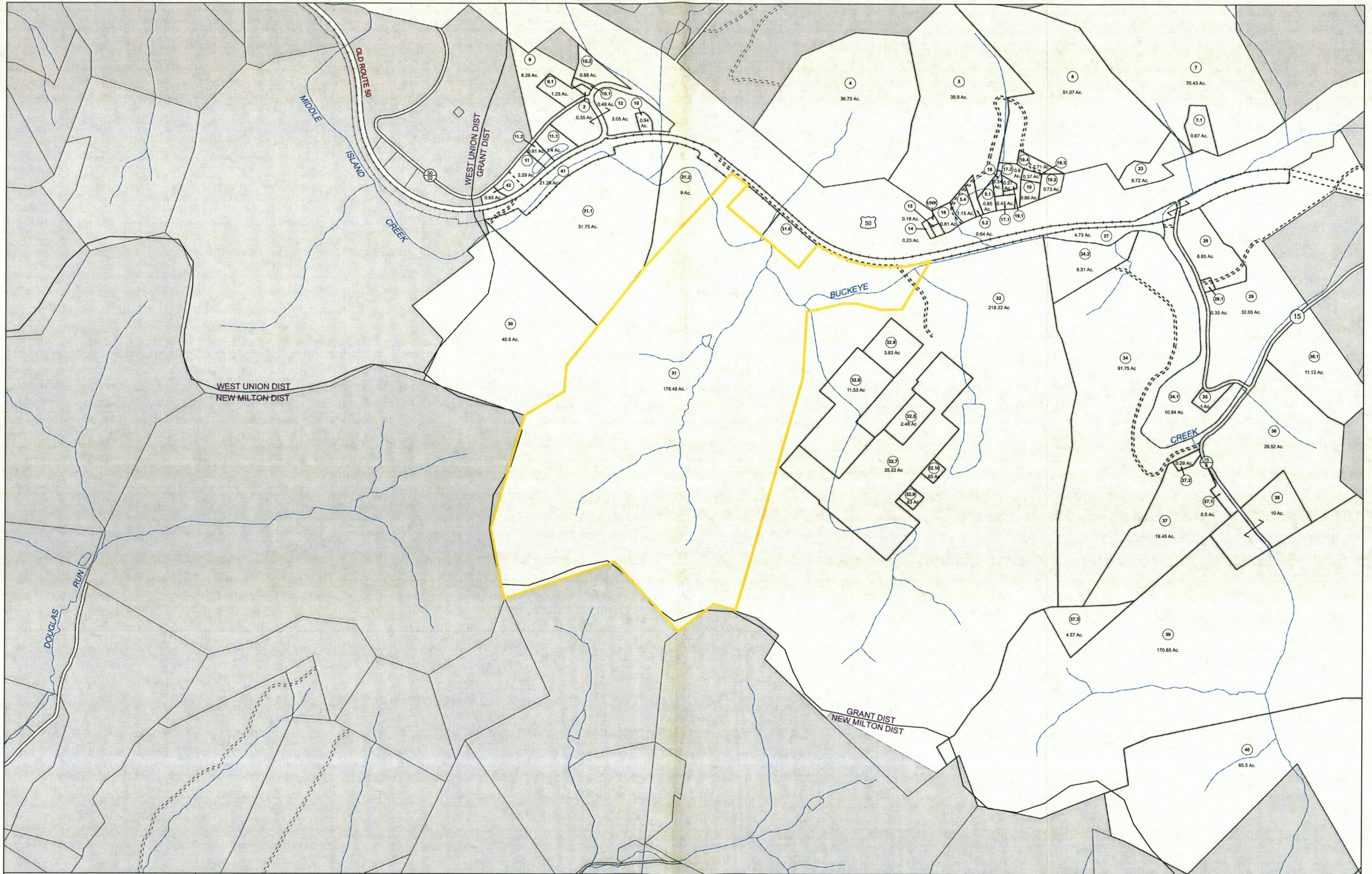
Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.

Property Designation: <u> 1 </u> of <u> 2 </u>
--

Property Owner Data:		
Name of Primary Owner (PO): Sherwood Midstream Holdings LLC		
PO Address: 1515 Arapahoe Street Tower 1		
City: Denver	State: CO	Zip: 80202
PO Primary Phone: N/A		
PO Secondary Phone: N/A		
PO Primary Email: N/A		

Surface Rights Owner Data:		
Name of Primary Owner (PO): N/A		
PO Address: N/A		
City: N/A	State: N/A	Zip: N/A
PO Primary Phone: N/A		
PO Secondary Phone: N/A		
PO Primary Email: N/A		

Mineral Rights Owner Data: (As Applicable)		
Name of Primary Owner (PO): N/A		
PO Address: N/A		
City: N/A	State: N/A	Zip: N/A
PO Primary Phone: N/A		
PO Secondary Phone: N/A		
PO Primary Email: N/A		



FOR TAX PURPOSES ONLY

LANDMARK
geospatial
A Division of Landmark Registry LLC

Legend

--- District Boundary	① Parcel or Index Number
--- Prepaid Deed	②
--- Property	③
--- Road Easement	④ Improvement
--- Railroad Right of Way	⑤ Cemetery
--- Road Right of Way	⑥ Church
--- River	⑦ Educational

Restriction

REPRODUCTION OF TAX MAPS PROHIBITED
It is unlawful to copy, photocopy, scan, photograph, or otherwise reproduce this tax map. Pursuant to the provisions of W Va. CSR § 18B-5-5 (2013) no person may reproduce, copy, distribute or sell copies of tax maps prepared by the counties without having first obtained the written permission of the Doddridge County Assessor. In addition to other penalties and civil remedies, any person who, without the written permission of the Doddridge County Assessor, reproduces, copies, distributes, or sells or who allows the reproduction, copying, distribution or sale of tax maps prepared by the Doddridge County Assessor, shall be refused permission by the Doddridge County Assessor or Assessor's agent to purchase tax maps in the future.

Revisions

Parcel	Revision	Date
1	LANDMARK	09/01/2016
2		10
3		11
4		12
5		13
6		14
7		15
8		16
9		17
10		18
19		19
20		20
21		21
22		22
23		23
24		24
25		25
26		26
27		27
28		28
29		29
30		30
31		31
32		32
33		33
34		34
35		35
36		36

DODDRIDGE COUNTY
Assessor's Office
David E. Sponaugle, Assessor
WEST UNION, WV

GRANT

District 03 Map No. 19
Date of Publication: 02/01/2018
Scale: 1"=400'

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

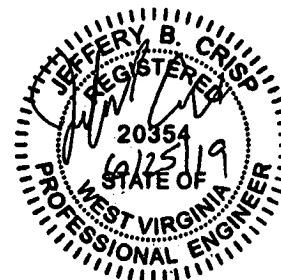
Contractor Data:

Please provide all pertinent data for contractors and sub---contractors that may be participating in this project. Use additional copies of this page as needed. Designate each page in relation to each property listed above.

Property Designation: 1 of 1

Contractor/Sub- Contractor (C/SC) Information:		
C/SC Company Name: To be Determined		
C/SC WV License Number:		
C/SC FEIN:	C/SC DUNS:	
Local C/SC Point of Contact (POC):		
Local C/SC POC Title:		
C/SC Mailing Address:		
City:	State:	Zip-Code:
Local C/SC Office Phone:		
Local C/SC POC Phone:		
Local C/SC POC E-Mail:		

Engineer Firm Information		
Engineer Firm Name: Kleinfelder, Inc.		
Engineer WV License Number: 20354 (Jeff Crisp)		
Engineer Firm FEIN: 94-1532513	Engineer Firm DUNS: N/A	
Engineer Firm Primary Point of Contact (POC): Matt Albright		
Engineer Firm Primary POC Title: Project Manager		
Engineer Firm Mailing Address: 51 Dutilh Rd., Suite 240		
City: Cranberry Township	State: PA	Zip- 16066
Engineer Firm Office Phone: (724) 772-7072		
Engineer Firm Primary POC Phone: (609) 947-5296		
Engineer Firm Primary POC E-Mail: MALbright@kleinfelder.com		



Adjacent and/or Affected Landowners Data

Please provide data for all adjacent and/or affected surface owners (both up and down stream) whose property may be impacted by proposed development as demonstrated by a floodplain study or survey. Use additional copies of this page as needed.

Adjacent Property Owner Data: Upstream		
Name of Primary Owner (PO): - N/A		
Physical Address: N/A		
City: N/A	State: N/A	Zip: N/A
PO Primary Phone: N/A		
PO Secondary Phone: N/A		
PO Primary Email: N/A		

Adjacent Property Owner Data: Upstream		
Name of Primary Owner (PO): N/A		
Physical Address: N/A		
City: N/A	State: N/A	Zip: N/A
PO Primary Phone: N/A		
PO Secondary Phone: N/A		
PO Primary Email: N/A		

Adjacent Property Owner Data: Downstream		
Name of Primary Owner (PO): N/A		
Physical Address: N/A		
City: N/A	State: N/A	Zip: N/A
PO Primary Phone: N/A		
PO Secondary Phone: N/A		
PO Primary Email: N/A		

Adjacent Property Owner Data: Downstream		
Name of Primary Owner (PO): N/A		
Physical Address: N/A		
City: N/A	State: N/A	Zip: N/A
PO Primary Phone: N/A		
PO Secondary Phone: N/A		
PO Primary Email: N/A		

Site Plan

A Site Plan is an accurate and detailed map of the proposed development for this project. It shows the size, shape, location and special features of the project property, and the size and location of any development planned to the property, especially as that development will impact the floodplain and/or floodway. Site plans show what currently exists on the project property, and any changes or improvements you are proposing to make. **A certified and licensed engineering firm should complete site plans.**

A SITE PLAN MUST CONTAIN THE FOLLOWING INFORMATION:

1. Legal description of the parcel, north arrow and scale
2. All property lines and their dimensions
3. Names of adjacent roads, location of driveways
4. Location of sloughs, tributaries, streams, rivers, wetlands, ponds, and lakes, with setbacks indicated, and including FEMA floodplain data based on most updated FIRM.
5. Location, size, shape of all buildings, existing and proposed, with elevation of lowest floor indicated.
6. Location and dimensions of existing or proposed on-site sewage systems.
7. Location of all propane tanks, fuel tanks or other liquid storage tanks whether above ground or below ground level.
8. Location and dimensions of any proposed pipeline placement(s) into floodplain/floodway.
9. Location and dimensions of any roadway development into floodplain/floodway. *(Includes initial development accessroads)*
10. Location and dimensions of any bridge and/or culvert development into floodplain/floodway.
11. Location and dimensions of any storage yard or facility into the floodplain/floodway.
12. Location of any existing utilities and/or proposed utility placement and/or displacement.
13. Location, dimensions and depth of any existing or proposed fill on site.
14. A survey showing the **existing ground elevations** of at least location on the building site. **ELEVATION NOTE:** All vertical datum will reference either NGVD 29 or NAVD 88. Assumed datum will not be acceptable unless the property is located in an area where vertical datum has not been published. For those areas where vertical datum has not been established, a site plan with contours, elevations using assumed datum, high water marks and existing water levels of sloughs, rivers, lakes or streams and proposed lowest floor elevation.

Applicant

Please read print name, sign and date below:

- I certify that I am authorized to submit this application for the primary project developer.
- I certify that the information included in this application is to the best of my knowledge true and complete.
- I certify that all required Federal, State, and local permits required by law and/or ordinance for the above described development of this project have will be properly attained, are current and valid, and must be presented prior to a Doddridge County Floodplain Permit being issued.
- I understand that if in the course of the development project additional permits become required that were not needed during the initial proposal, the primary developer must notify the Doddridge County Floodplain Manager within 48 hours of such need, and that a "Stop Work" order may be issued for all project work directly impacting the floodplain or floodway, until such time the required additional permits are acquired.
- I understand that once the floodplain permit is submitted, the application will be entered into official public record at the next regularly scheduled Doddridge County Commission meeting after the date of submittal.
- I understand that from the date of submittal of the fully completed permit application, the Doddridge County Floodplain Manager has ninety (90) days to make a determination to either grant or deny said permit application. During this approval period, the Doddridge County Floodplain Manager may, at his or her discretion, conduct a review and/or additional study of provided documentation by means of an independent engineering firm. All costs associated with said review and/or study must be reimbursed to the County before issuance of approved permit.
- I understand that during the approval period, the Doddridge County Floodplain Manager of designee may at his or her discretion conduct site visits and document conditions of proposed development pursuant to the permit application.
- I understand that once the Floodplain Permit is granted, the permit will be entered into official public record. Appeals to the permit may be made no later than twenty (20) days after said issuance. If a valid appeal is submitted, as determined by the Doddridge County Floodplain Manager, a "Stop Work" order will be issued for all project development directly involving the floodplain or floodway. A public hearing by the Doddridge County Appeals Board will be scheduled no less than ten (10) days after the next regularly scheduled Doddridge County Commission meeting.
- I understand that all decisions of the Doddridge County Appeals Board shall be final.
- **I understand Issuance of a Floodplain Permit authorizes me to proceed with construction as proposed.**
- In signing this application, the primary developer hereby grants the Doddridge County Floodplain Manager or designee the right to enter onto the above---described location to inspect the development work proposed, in progress, and/or completed.
- I understand that if I do not follow exactly the site---plan submitted and approved by this permit that a "Stop Work" order may be issued by the Doddridge County Floodplain Manager and that I must stop all construction immediately until discrepancies of actual work vs. proposed work is resolved.

Applicant Signature: _____

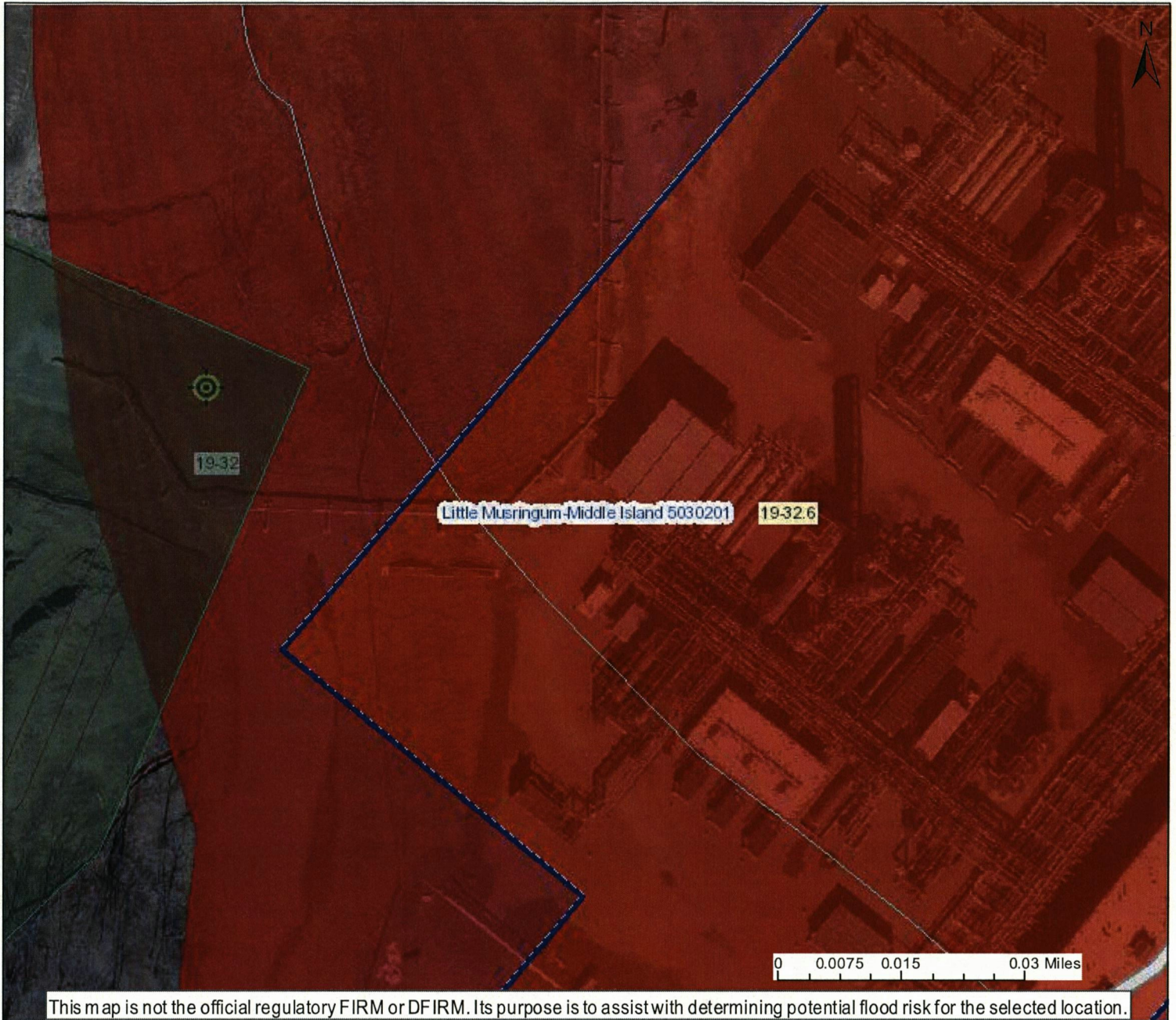
Date: _____

Applicant Printed Name: _____

ATTACHMENT B
SITE PLAN

ATTACHMENT C
LOCATION EXHIBIT

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 6/24/2019

Flood Info Location

User Notes:

-  FEMA Effective Levee-Protec... Area
-  Advisory Zone A or Updated Zone AE

FEMA Effective Floodplain

-  Floodway
-  Flood Hazard Zone

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. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. **WV Flood Tool** (<https://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.

Flood Hazard Area:

Location is **WITHIN** the FEMA 100-year floodplain.

Flood Hazard Zone: A

Stream: Unnamed Tributary 1 to Buckeye Cree

Watershed (HUC8): Little Musringum-Middle Island (5030

FEMA Flood Map: 54017C0140CNFHEFF: 10/4/2011

Elevation: About 825 ft (Source: SAMS 2003)

Community Name: Doddridge County

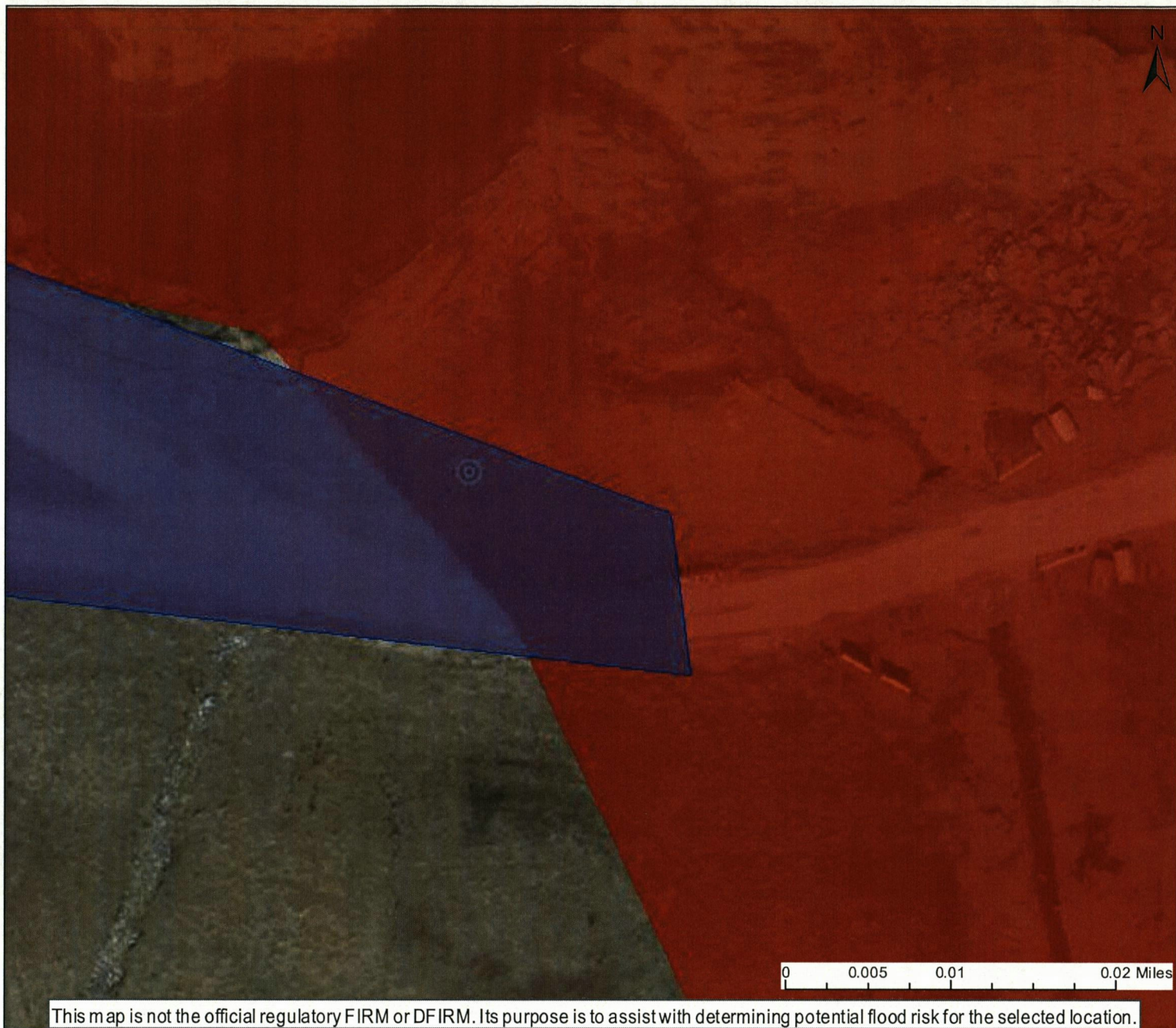
Community ID: 540024

Location (long, lat): (-80.689364, 39.275240)

Parcel ID: 09-03-0019-0032-0000

Address: multiple addresses

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 6/19/2019

Flood Info Location

User Notes:

-  FEMA Effective Levee-Protec... Area
-  Advisory Zone A or Updated Zone AE

FEMA Effective Floodplain

-  Floodway
-  Flood Hazard Zone

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. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. **WV Flood Tool** (<https://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.

Flood Hazard Area:

Location is **WITHIN** the FEMA 100-year floodplain.

Flood Hazard Zone: AE

Stream: Buckeye Creek

Watershed (HUC8): Little Musringum-Middle Island (5030

FEMA Flood Map: 54017C0140CNFHEFF: 10/4/2011

Elevation: About 806 ft (Source: SAMS 2003)

Community Name: Doddridge County

Community ID: 540024

Location (long, lat): (-80.689989, 39.276976)

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

Address: multiple addresses

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 6/19/2019

Flood Info Location

User Notes:

-  FEMA Effective Levee-Protec... Area
-  Advisory Zone A or Updated Zone AE

FEMA Effective Floodplain

-  Floodway
-  Flood Hazard Zone

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. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. **WV Flood Tool** (<https://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.

Flood Hazard Area:

Location is **WITHIN** the FEMA 100-year floodplain.

Flood Hazard Zone: AE

Stream: Buckeye Creek

Watershed (HUC8): Little Musringum-Middle Island (5030

FEMA Flood Map: 54017C0140CNFHEFF: 10/4/2011

Elevation: About 806 ft (Source: SAMS 2003)

Community Name: Doddridge County

Community ID: 540024

Location (long, lat): (-80.690700, 39.277232)

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

Address: multiple addresses

ATTACHMENT D
FEE CALCULATION
DETAIL SHEETS

FEE CALCULATION DETAIL SHEET
Smithburg to Sherwood Liquid Lines

Opinion of Probable Construction Costs - Construction in the Floodplain				
Item	Units	Quantity	Unit Cost	Total Cost
HDD Bore	LF	-	\$ 800.00	\$ -
Erosion Control Blanket	SY	1,485	\$ 2.00	\$ 2,970.00
Silt Fence	LF	-	\$ 3.00	\$ -
Super Silt Fence	LF	387	\$ 7.00	\$ 2,709.00
Wetland and Stream Protection	LS	1	\$ 5,000.00	\$ 5,000.00
Rock Construction Entrance	EA	1	\$ 4,250.00	\$ 4,250.00
Total	-	-	-	\$ 14,929.00

Doddridge County Flood Plain Application Fee Calculator (if in Floodplain)	
Estimated Construction Costs	\$ 14,929.00
Amount over \$100,000	\$ (85,071.00)
Drilling Oil and Gas Well Fee	\$ 1,000.00
\$5 per \$1,000 over \$100,000	\$ -
Amount Due with application	\$ 1,000.00



This is to certify that I am a duly qualified registered professional engineer licensed to practice in the State of West Virginia.

JUL 2 19 10:38AM

It is further to certify that the attached technical data supports the fact that the proposed Smithburg to Sherwood Liquid Lines Project will not impact the 100-year flood elevations on the Unnamed Tributary 1 to Buckeye Creek or Buckeye Creek at published sections in the Flood Insurance Study for Doddridge County (Community ID 540024) effective 10/04/2011 and will not impact the 100-year flood elevations at unpublished cross-sections in the vicinity of the proposed development.

The project involves the installation of approximately 2.2 miles of three (3) 12-inch diameter steel natural gas liquids lines. No fill is proposed for the project within the floodplain and all grades will be restored to existing conditions once the lines are installed.

Attached are the following documents that support my findings:

Maps of the Project Site from the West Virginia Flood Tool

Smithburg to Sherwood Liquid Lines Plan Set dated June 26, 2019, prepared by the Thrasher Group Inc.

Date: 7/1/19

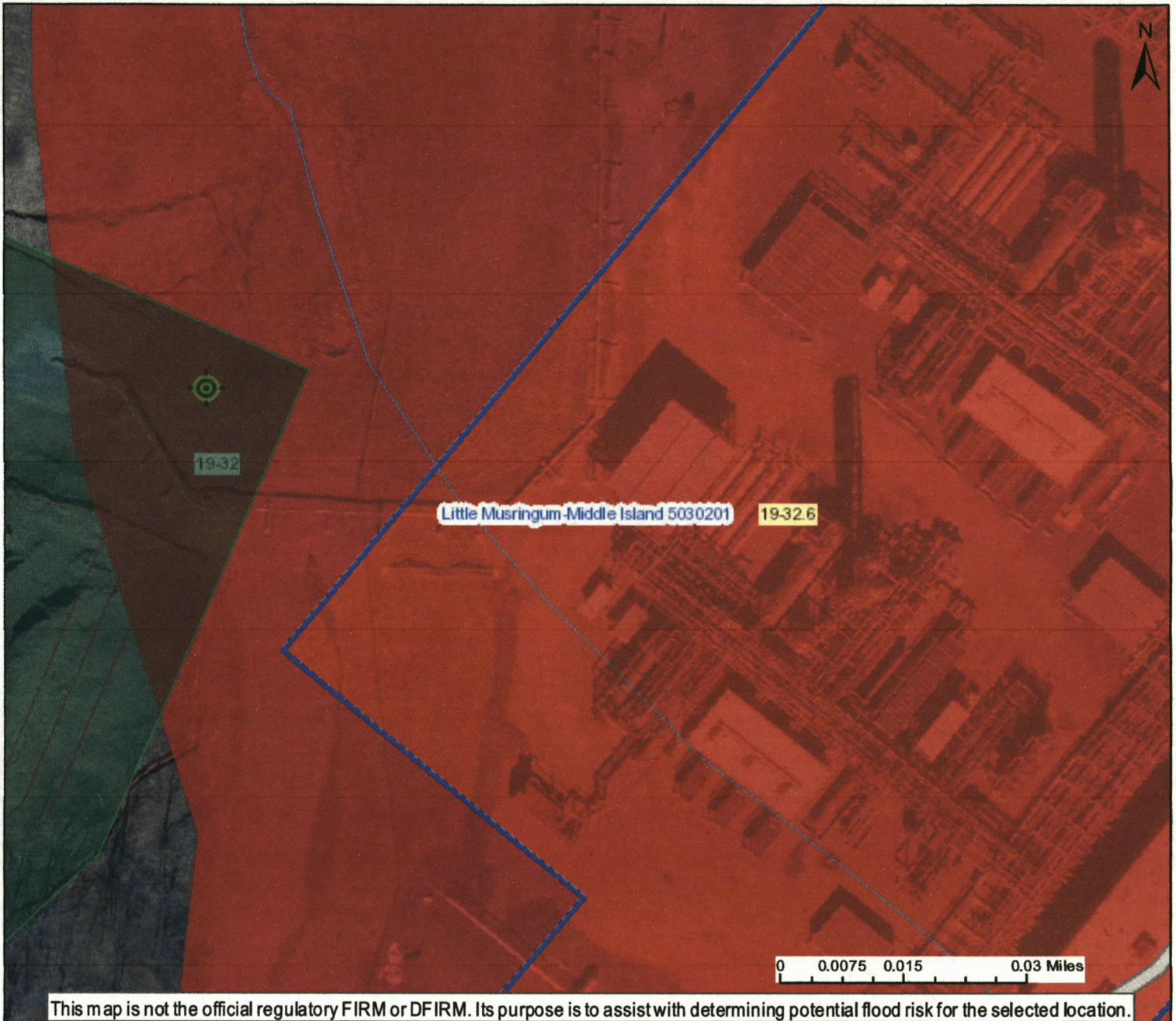
Signature: [Handwritten Signature]

Title: Program Manager



LOCATION EXHIBIT

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 6/24/2019

Flood Info Location

User Notes:

- | | | | |
|---|-------------------------------------|---|------------------------------------|
|  | FEMA Effective Levee-Protec... Area |  | Advisory Zone A or Updated Zone AE |
|  | Floodway | | |
|  | Flood Hazard Zone | | |

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. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. **WV Flood Tool** (<https://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.

Flood Hazard Area:

Location is **WITHIN** the FEMA 100-year floodplain.

Flood Hazard Zone: A

Stream: Unnamed Tributary 1 to Buckeye Cree

Watershed (HUC8): Little Musringum-Middle Island (5030

FEMA Flood Map: 54017C0140CNFHELF: 10/4/2011

Elevation: About 825 ft (Source: SAMS 2003)

Community Name: Doddridge County

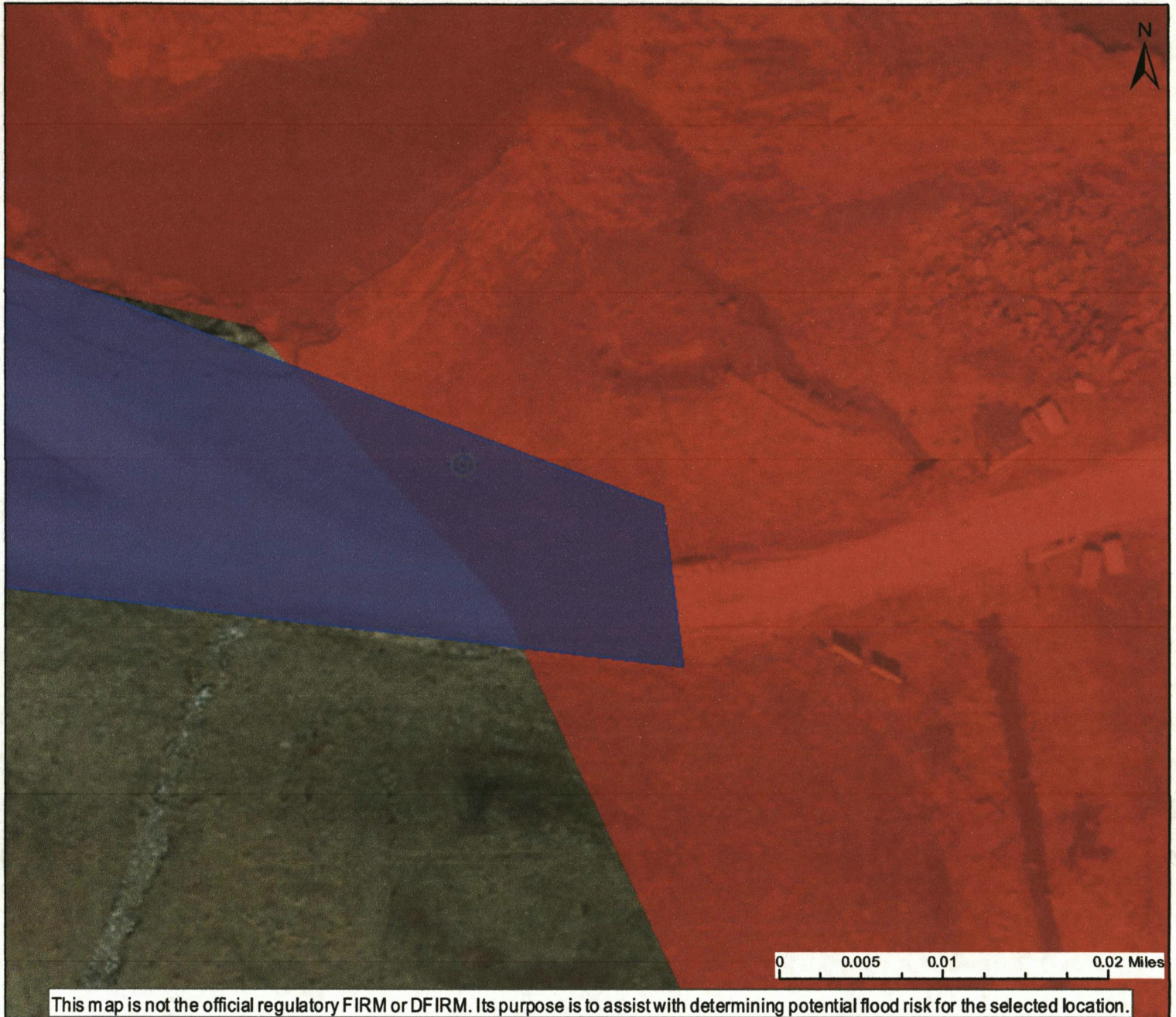
Community ID: 540024

Location (long, lat): (-80.689364, 39.275240)

Parcel ID: 09-03-0019-0032-0000

Address: multiple addresses

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.



Flood Info Location

User Notes:

Map created on 6/19/2019

-  FEMA Effective Levee-Protec... Area
-  Advisory Zone A or Updated Zone AE

FEMA Effective Floodplain

-  Floodway
-  Flood Hazard Zone

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. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. **WV Flood Tool** (<https://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.

Flood Hazard Area:

Location is **WITHIN** the FEMA 100-year floodplain.

Flood Hazard Zone: AE

Stream: Buckeye Creek

Watershed (HUC8): Little Musringum-Middle Island (5030

FEMA Flood Map: 54017C0140CNFHEFF: 10/4/2011

Elevation: About 806 ft (Source: SAMS 2003)

Community Name: Doddridge County

Community ID: 540024

Location (long, lat): (-80.689989, 39.276976)

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

Address: multiple addresses

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 6/19/2019

Flood Info Location

User Notes:

- | | | | |
|---|-------------------------------------|---|------------------------------------|
|  | FEMA Effective Levee-Protec... Area |  | Advisory Zone A or Updated Zone AE |
|  | Floodway |  | Flood Hazard Zone |

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. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. WV Flood Tool (<https://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.

Flood Hazard Area:

Location is **WITHIN** the FEMA 100-year floodplain.

Flood Hazard Zone: AE

Stream: Buckeye Creek

Watershed (HUC8): Little Musringum-Middle Island (5030

FEMA Flood Map: 54017C0140CNFHLFF: 10/4/2011

Elevation: About 806 ft (Source: SAMS 2003)

Community Name: Doddridge County

Community ID: 540024

Location (long, lat): (-80.690700, 39.277232)

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

Address: multiple addresses

DESIGN PLANS

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1-9.

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

SECTION A - PROPERTY INFORMATION		FOR INSURANCE COMPANY USE
A1. Building Owner's Name <u>RON BARNES AND SHARON WALKER</u>		Policy Number:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. <u>1901 SMITHTON ROAD</u>		Company NAIC Number:
City <u>WEST UNION</u>	State <u>WV</u>	ZIP Code <u>26456</u>
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) <u>WEST UNION DISTRICT, TAX MAP 12 PARCEL 36, 34</u>		
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>RESIDENTIAL</u>		
A5. Latitude/Longitude: Lat. <u>39°17'55.81"</u> Long. <u>80°44'44.66"</u> zontal Datum: <input type="checkbox"/> NAD 1927 <input checked="" type="checkbox"/> NAD 1983		
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.		
A7. Building Diagram Number <u>6</u>		
A8. For a building with a crawlspace or enclosure(s):		
a) Square footage of crawlspace or enclosure(s) <u>952</u> sq ft		
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade <u>10</u>		
c) Total net area of flood openings in A8.b <u>1310</u> sq in		
d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
A9. For a building with an attached garage:		
a) Square footage of attached garage _____ sq ft		
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade _____		
c) Total net area of flood openings in A9.b _____ sq in		
d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No		

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION					
B1. NFIP Community Name & Community Number <u>DODDRIDGE COUNTY 540024</u>			B2. County Name <u>DODDRIDGE</u>		B3. State <u>WV</u>
B4. Map/Panel Number <u>540024/0140</u>	B5. Suffix <u>C</u>	B6. FIRM Index Date <u>OCT 4, 2011</u>	B7. FIRM Panel Effective/ Revised Date <u>OCT 4, 2011</u>	B8. Flood Zone(s) <u>A</u>	B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) <u>785.40</u>
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: <input type="checkbox"/> FIS Profile <input checked="" type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other/Source: _____					
B11. Indicate elevation datum used for BFE in Item B9: <input type="checkbox"/> NGVD 1929 <input checked="" type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Designation Date: _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA					

ELEVATION CERTIFICATE

OMB No. 1660-0008
Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. <u>1901 SMITHTON ROAD</u>			Policy Number:
City <u>WEST UNION</u>	State <u>WV</u>	ZIP Code <u>26456</u>	Company NAIC Number

SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: Construction Drawings* Building Under Construction* Finished Construction

*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO. Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.

Benchmark Utilized: GPS Vertical Datum: _____

Indicate elevation datum used for the elevations in items a) through h) below.

NGVD 1929 NAVD 1988 Other/Source: GPS, WV COORS NETWORK

Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.

- a) Top of bottom floor (including basement, crawspace, or enclosure floor) 786.60 feet meters
- b) Top of the next higher floor 787.26 feet meters
- c) Bottom of the lowest horizontal structural member (V Zones only) ~~784.55~~ feet meters
- d) Attached garage (top of slab) _____ feet meters
- e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) 786.45 feet meters
- f) Lowest adjacent (finished) grade next to building (LAG) 784.55 feet meters
- g) Highest adjacent (finished) grade next to building (HAG) 786.37 feet meters
- h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support 786.14 feet meters

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

Were latitude and longitude in Section A provided by a licensed land surveyor? Yes No Check here if attachments.

Certifier's Name <u>JOHN STRICKLING</u>	License Number <u>715</u>
Title <u>PROFESSIONAL SURVEYOR</u>	
Company Name <u>STRICKLING SURVEYING</u>	
Address <u>130 ENGLANDS RUN ROAD</u>	
City <u>WEST UNION</u>	State <u>WV</u>
	ZIP Code <u>26456</u>



Signature <u>John Strickling</u>	Date <u>10/22/19</u>	Telephone <u>304 873 1592</u>
-------------------------------------	-------------------------	----------------------------------

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments (including type of equipment and location, per C2(e), if applicable)

SEE ATTACHED DRAWING

ELEVATION CERTIFICATE

OMB No. 1660-0008
Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1901 SMITHTON ROAD			Policy Number:
City WEST UNION	State WV	ZIP Code 26456	Company NAIC Number

**SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED)
FOR ZONE AO AND ZONE A (WITHOUT BFE)**

For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

- E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
- a) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ . _____ feet meters above or below the HAG.
 - b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ . _____ feet meters above or below the LAG.
- E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 1–2 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____ . _____ feet meters above or below the HAG.
- E3. Attached garage (top of slab) is _____ . _____ feet meters above or below the HAG.
- E4. Top of platform of machinery and/or equipment servicing the building is _____ . _____ feet meters above or below the HAG.
- E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? Yes No Unknown. The local official must certify this information in Section G.

SECTION F – PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner or Owner's Authorized Representative's Name _____

Address _____	City _____	State _____	ZIP Code _____
Signature _____	Date _____	Telephone _____	

Comments _____

Check here if attachments.

BUILDING PHOTOGRAPHS

OMB No. 1660-0008
Expiration Date: November 30, 2018

ELEVATION CERTIFICATE

See Instructions for Item A6.

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1901 SMITHTON ROAD			Policy Number:
City WEST UNION	State WV	ZIP Code 26456	Company NAIC Number

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.

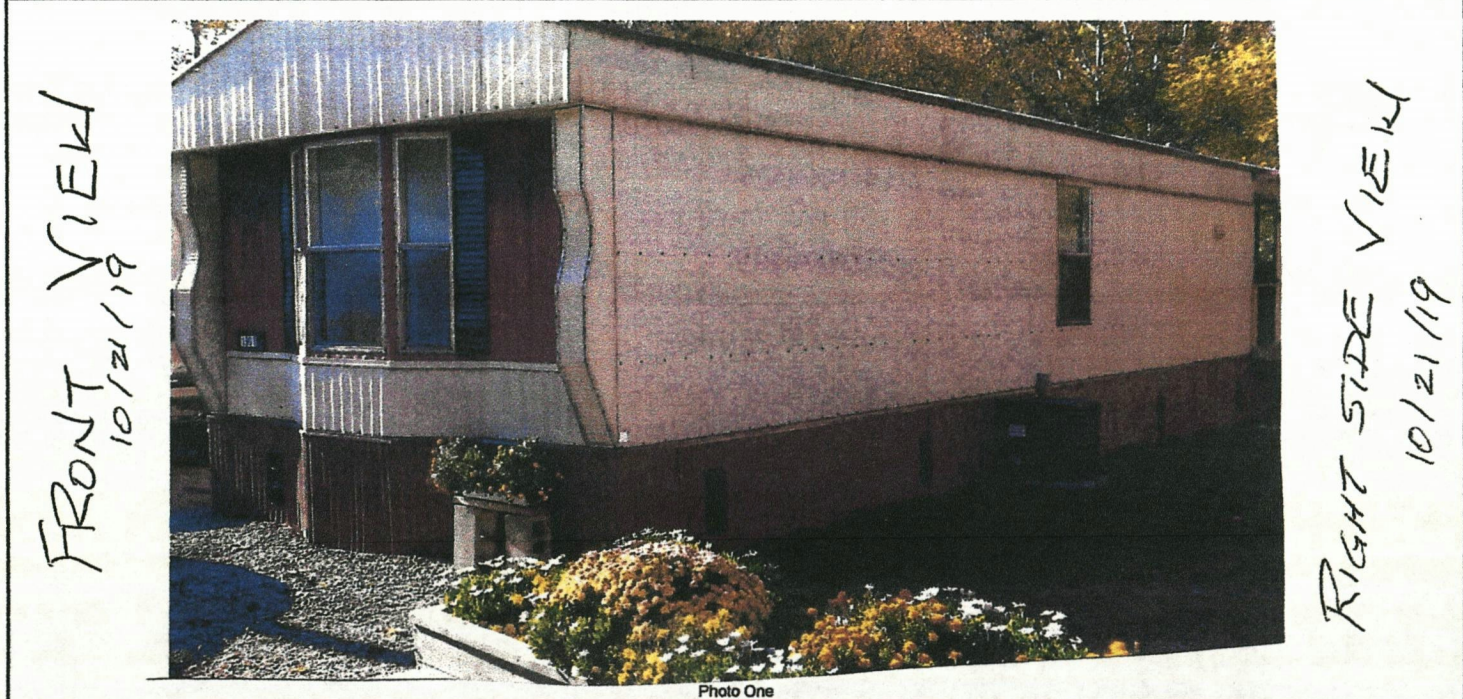


Photo One Caption

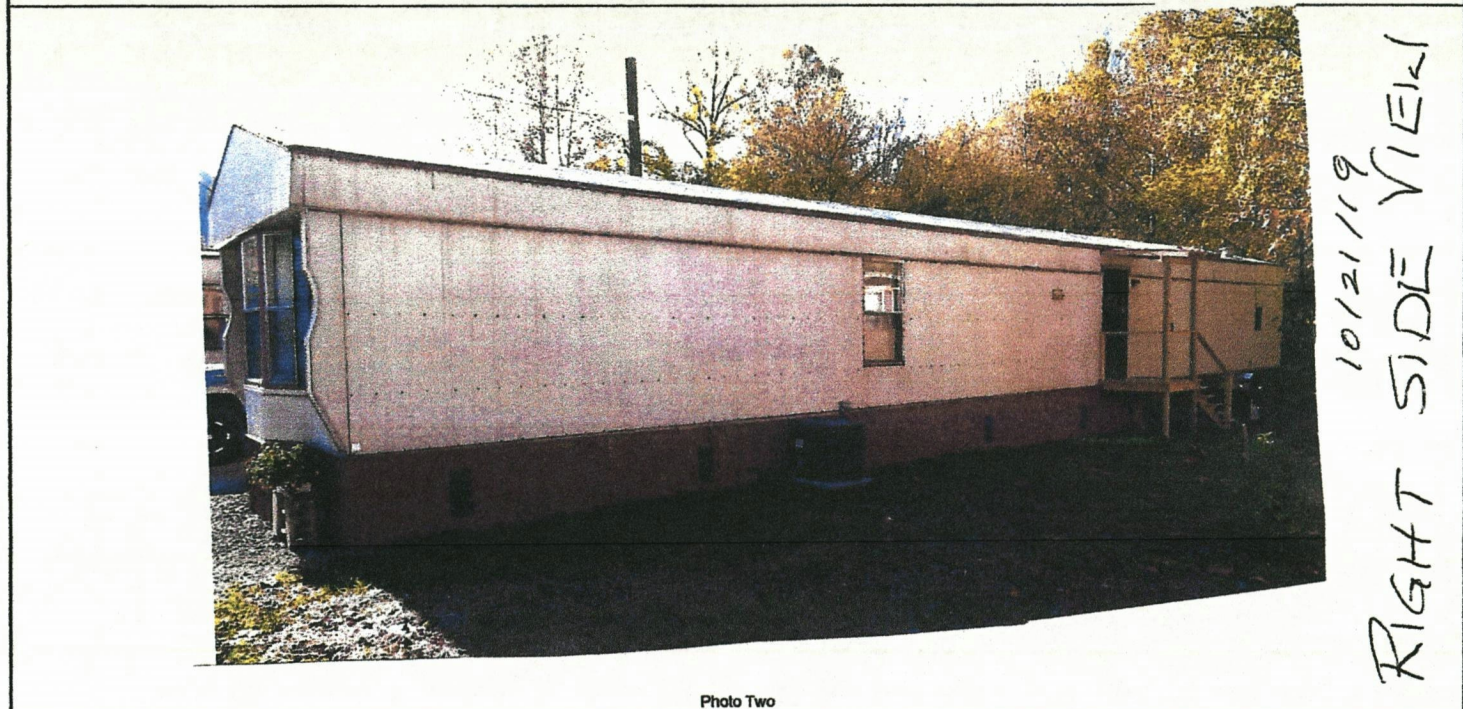


Photo Two Caption

BUILDING PHOTOGRAPHS

Continuation Page

OMB No. 1660-0008
Expiration Date: November 30, 2018

ELEVATION CERTIFICATE

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1901 SMITHTON ROAD			Policy Number:
City WEST UNION	State OH	ZIP Code 26456	Company NAIC Number

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.

LEFT SIDE VIEW
10/21/19



FRONT VIEW
10/21/19

Photo One

Photo One Caption

VENT
10/21/19

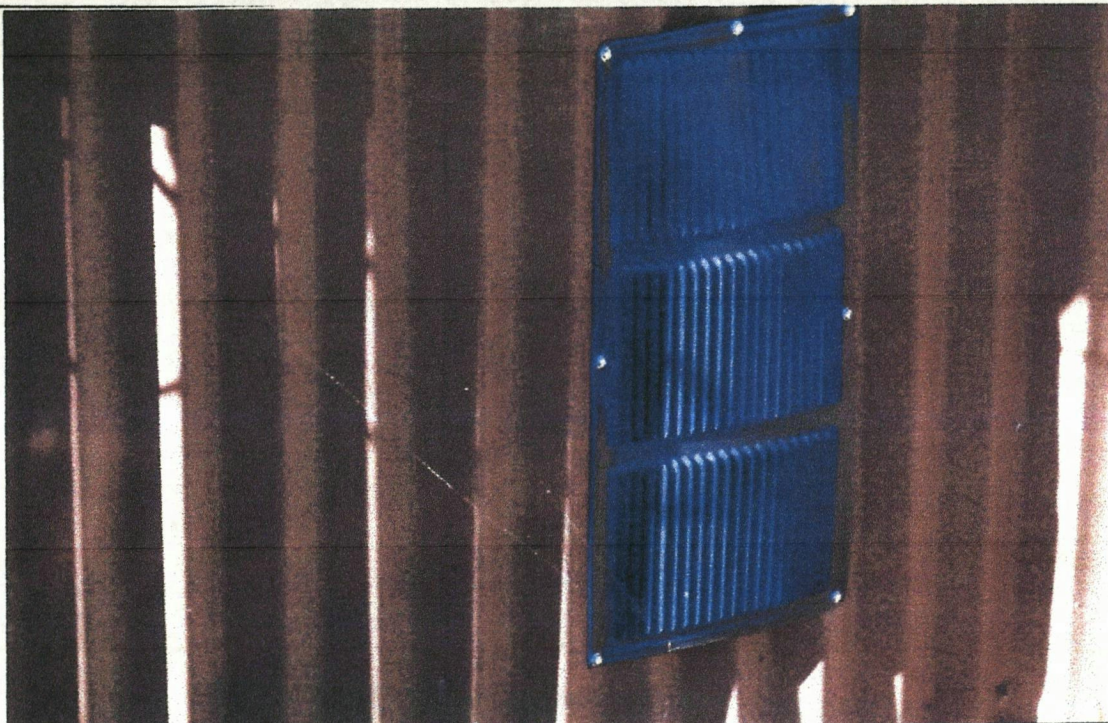
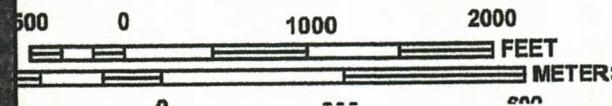


Photo Two Caption



MAP SCALE 1" = 1000'



PANEL 0140C

FIRM

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

PANEL 140 OF 325
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
DODDRIDGE COUNTY	540024	0140	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
54017C0140C
MAP REVISED
OCTOBER 4, 2011






Federal Emergency Management Agency

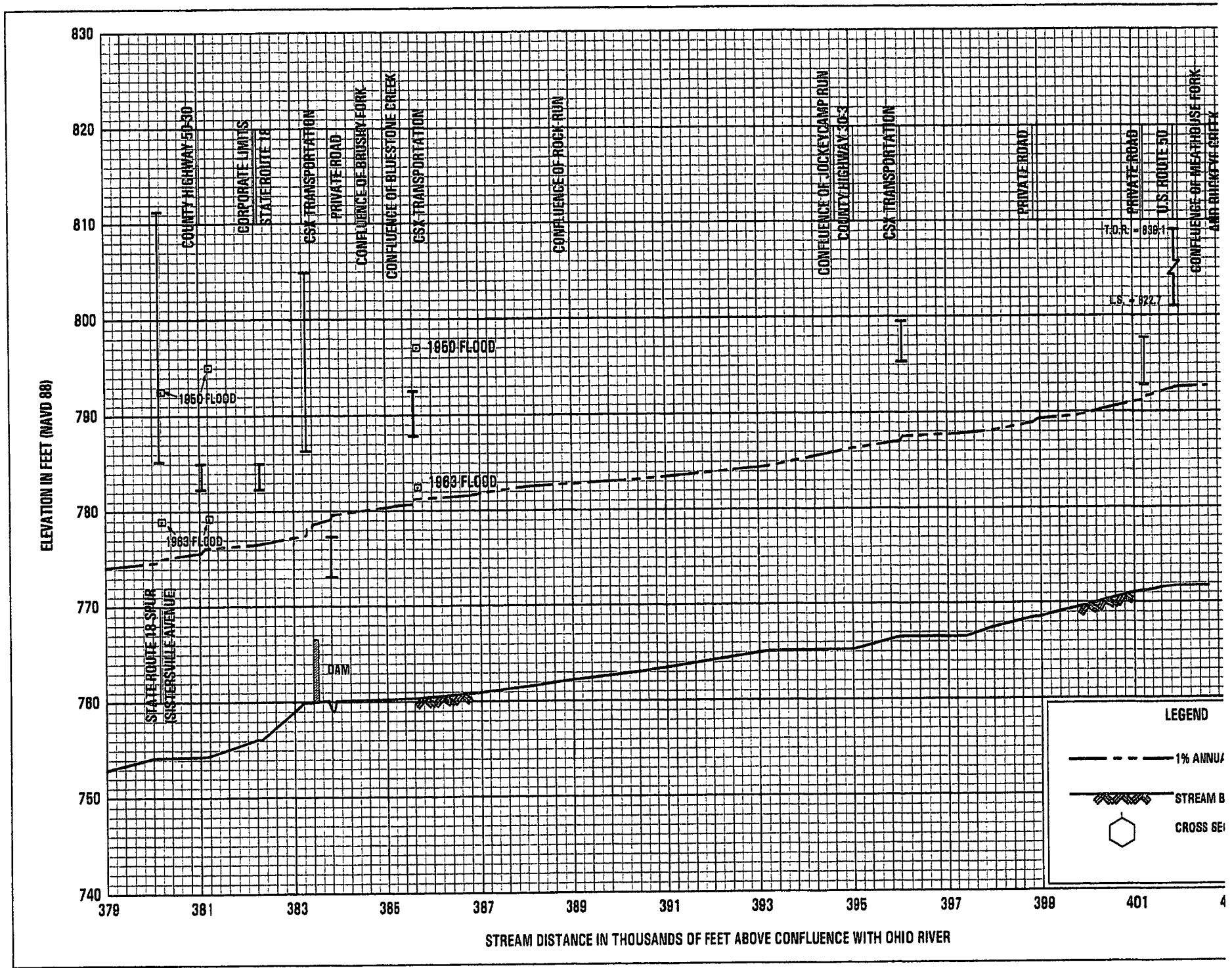
This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program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

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.

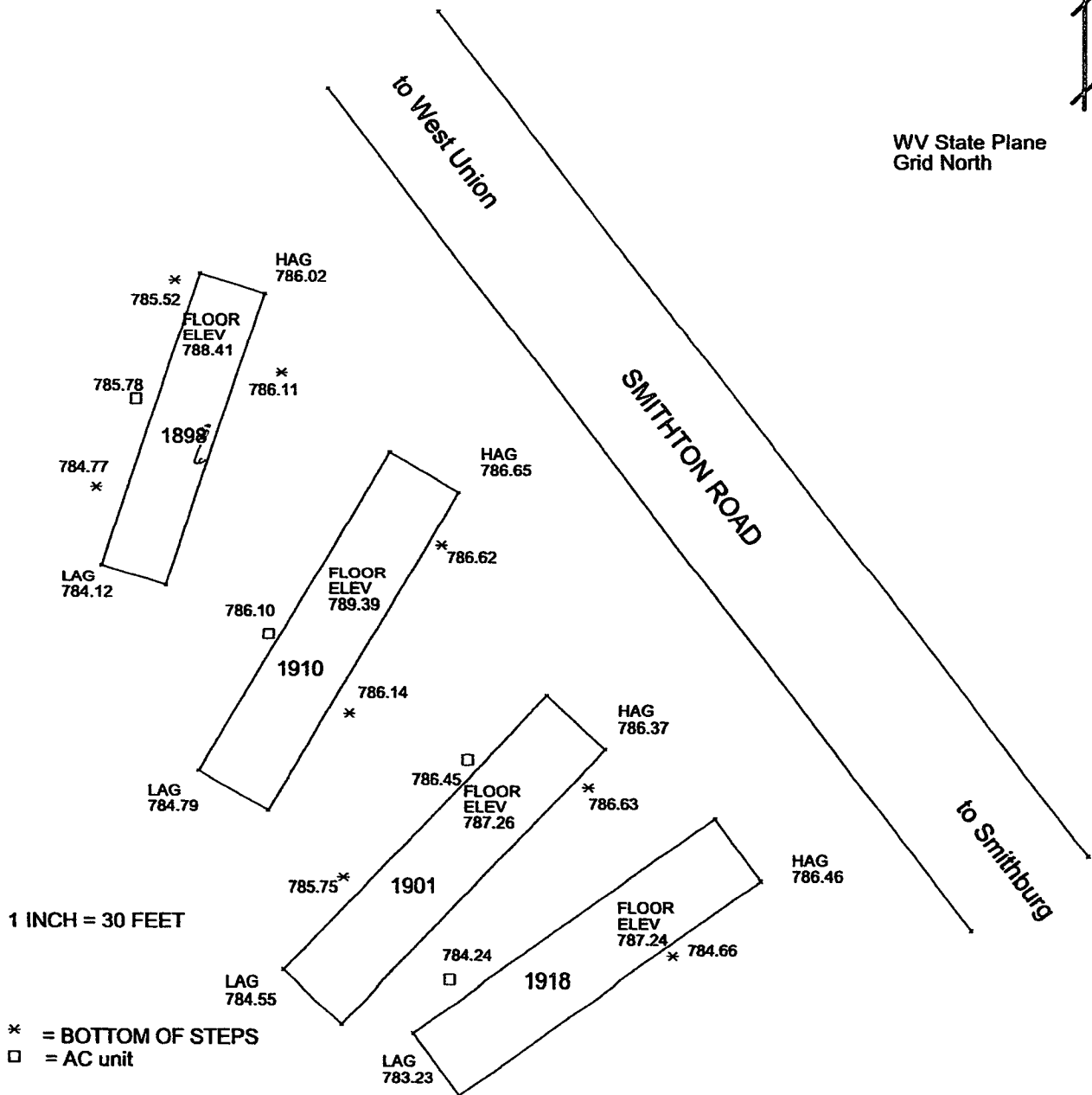
H I G H R I S K		1-Percent-Annual-Chance Flood Hazard Area With Base Flood Elevation (BFE)	 Flood Info Location Map created on 10/12/2019
		Regulatory Floodway in AE Zone	
		1-Percent-Annual-Chance Flood Hazard Area Without BFE (may have Advisory Flood Heights)	User Notes
		1-Percent-Annual-Chance High Risk Advisory	Flood Hazard Area Location is WITHIN the FEMA 100-year floodplain.
Download the Full Legend for all flood tool symbols https://www.mapwv.gov/flood/map/docs/wv_flood_tool_legend.pdf			Flood Zone AE
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. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. WV Flood Tool (https://www.mapwv.gov/flood) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.			Stream Middle Island Creek
			Watershed (HUC8) Little Musringum-Middle Island (5030201)
			Flood Height Refer to FIS report for BFE
			Water Depth About 10.0 ft (Source: HAZUS)
			Elevation About 781 ft (Source: SAMS 2003)
			Community & ID Doddridge County (ID: 540024)
			FEMA Map & Date 54017C0140C; Effective Date: 10/4/2011
			Location (lat, long) (39.299447, -80.747041)
			Parcel ID No Parcel
			E-911 Address N/A



DRAWING SHOWING TRAILERS
ON TAX MAP 12 PARCELS 34
AND 36, WEST UNION DISTRICT
DODDRIDGE COUNTY, WV



WV State Plane
Grid North



1 INCH = 30 FEET

* = BOTTOM OF STEPS
□ = AC unit

Surveyed on 21 October 2019
by John Strickling, PS 715,
of West Union, WV.

The Doddridge Independent

The Doddridge Independent PUBLISHER'S CERTIFICATE

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

Please take notice that on the (27th) of (June), 2019, (Mark West Liberty Midstream LLC) filed an application for a Floodplain Permit (#19-555) to develop land located at or about (218 Swisher Ln); Coordinates: 39.275426, -80.689417. The Application is on file with the Floodplain Manager of the County and may be inspected or copied during regular business hours in accordance to WV Code Chapter 29.B Freedom of Information, Article 1 Public Records and county policy and procedures. Any interested persons who desire to

was published in The Doddridge Independent
2 times commencing on Friday, June 28, 2019 and
Ending on Friday, July 12, 2019 at the request of:

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

Given under my hand this Saturday, August 10, 2019

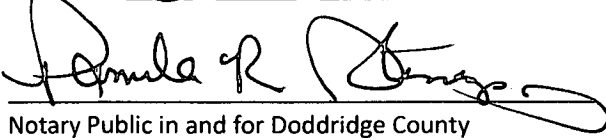
The publisher's fee for said publication is:
\$ 31.05 1st Run/\$ 23.28 Subsequent Runs
This Legal Ad Total: \$ 54.33



Michael D. Zorn
Publisher of The Doddridge Independent

Subscribed to and sworn to before me on

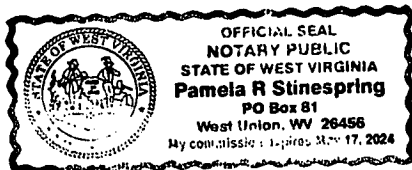
this date: 8/12/19



Notary Public in and for Doddridge County

My Commission expires on

The 17th day of May 2024



Floodplain Public Notice • Legal Notice

Please ~~take~~ notice that on the (27th) of (June), 2019, (Mark West Liberty Midstream LLC) filed an application for a Floodplain Permit (#19-555) to develop land located at or about (218 Swisher Ln); Coordinates: 39.275426, -80.689417. The Application is on file with the Floodplain Manager of the County and may be inspected or copied during regular business hours in accordance to WV Code Chapter 29.B Freedom of Information, Article 1 Public Records and county policy and procedures. Any interested persons who desire to comment shall present the same in writing by (July 22, 2019) (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Floodplain Manager of the County at 105 Court Street, Suite #3, West Union, WV 26456. This project is the Smithburg to Sherwood Pipeline project C2 6/28 - 7/12