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: #20-583

Date Approved: November 9, 2020 **Expires: November 9, 2021**

Issued to: Doddridge County Board of Education **POC: Jeff Harvey**

Company Address: 68 Bulldog Drive West Union, WV 26456

Project Address: 69 Cline Stansberry Road West Union, WV 26456

Firm: 54017C0120C **Lat/Long: 39.289528N, -80.770311W**

Purpose of Development: Construction of Early Childhood Academy

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

George C. Eidel

Date: November 9, 2020

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

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- 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:

dridge County Board of Education
68 Bulldog Drive
West Union, WV 26456

9590 9402 5586 9274 5541 63

2. Article Number *(Transfer from service label)*

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Covid 19 ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* Shn Rct | C. Date of Delivery 10/14

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- 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:

Earl R. Daugherty
P.O. Box 341
West Union, WV 26456

9590 9402 5586 9274 5541 56

2. Article Number *(Transfer from service label)*

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Tim Mill ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* | C. Date of Delivery 10-14-20

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
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- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

FLOODPLAIN PERMIT #20-583

DCBOE, 69 C Stansberry Rd, Early Childhood Academy, 39.289528, -80.770311

TASK	COMPLETE (DATE)	NOTES
CHECK RECEIVED	N/A	Fee Waived
US ARMY CORP. ENGINEERS (USACE)		
US FISH & WILDLIFE SERVICES (USFWS)		
WV DEPT. NATURAL RESOURCES (WVDNR)		
WV DEPT. ENVIROMENTAL PROTECTION (WVDEP)	10/13/20	
STATE HISTORIC & PRESERVATION OFFICE (SHPO)		
OFFICE of LAND & STREAM (OLS)		
WVDOH		
Elevation Certificate		
DATE OF COMMISSION READING	10/20/2020	
DATE AVAILABLE TO BE GRANTED	11/9/2020	
PERMIT GRANTED		
COMPLETE		

7019 1640 0001 3402 7160

7019 1640 0001 3402 7184

7019 1640 0001 3402 7153

7019 1640 0001 3402 7177

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- 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:

Town of West Union
178 Court Street
West Union, WV 26456

9590 9402 5586 9274 5541 87

2. Article Number *(Transfer from service label)*

COMPLETE THIS SECTION ON DELIVERY

A. Signature
Robin A. Valentine ☑ Agent ☐ Addressee

B. Received by *(Printed Name)* Robin A. Valentine

C. Date of Delivery 10-14-2020

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- 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:

James L. McAfee
13 Deer Lane
West Union, WV 26456

9590 9402 5586 9274 5541 70

2. Article Number *(Transfer from service label)*

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X James L McAfee ☐ Agent ☐ Addressee

B. Received by *(Printed Name)*

C. Date of Delivery 10-15-20

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
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PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

Doddridge County Floodplain Permits

(Week of October 12, 2020)

Please take notice that on the **(8th)** of **(October), 2020, (Doddridge County Board of Education)** filed an application for a Floodplain Permit **(#20-583)** to develop land located at or about **(69 C Stansberry Rd); Coordinates: 39.289528, -80.770311**. 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 **(November 9, 2020)** (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 for the Early Childhood Academy project**

GEORGE C. EIDEL, CFM

Doddridge County Floodplain Manager

7019 1640 0001 3402 7160

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee $ 3.45

Extra Services & Fees (check box, add fee as appropriate)
- [X] Return Receipt (hardcopy) $ 2.75
- [ ] Return Receipt (electronic) $
- [ ] Certified Mail Restricted Delivery $
- [ ] Adult Signature Required $
- [ ] Adult Signature Restricted Delivery $

Postage $ .50

Total Postage and Fees $ 6.70

Postmark Here — WEST UNION, WV — USPS 26456-9998

Sent To: Town of West Union
Street and Apt. No., or PO Box No.: 178 Court St.
City, State, ZIP+4®: West Union, WV 26456 20-583

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7019 1640 0001 3402 7153

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
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For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee $ 3.45

Extra Services & Fees (check box, add fee as appropriate)
- [X] Return Receipt (hardcopy) $ 2.75
- [ ] Return Receipt (electronic) $
- [ ] Certified Mail Restricted Delivery $
- [ ] Adult Signature Required $
- [ ] Adult Signature Restricted Delivery $

Postage $ .50

Total Postage and Fees $ 6.70

Postmark Here — WEST UNION, WV — USPS 26456-9998

Sent To: James L. McAfee
Street and Apt. No., or PO Box No.: 13 Deer Ln.
City, State, ZIP+4®: West Union, WV 26456 20-583

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7019 1640 0001 3402 7184

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
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For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee $ 3.45

Extra Services & Fees (check box, add fee as appropriate)
- [X] Return Receipt (hardcopy) $ 2.75
- [ ] Return Receipt (electronic) $
- [ ] Certified Mail Restricted Delivery $
- [ ] Adult Signature Required $
- [ ] Adult Signature Restricted Delivery $

Postage $ .50

Total Postage and Fees $ 6.70

Postmark Here — WEST UNION, WV — OCT 13 — USPS 26456-9998

Sent To: Doddridge Co. Bd. of Ed.
Street and Apt. No., or PO Box No.: 68 Bulldog Dr.
City, State, ZIP+4®: West Union, WV 26456 20-583

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7019 1640 0001 3402 7177

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee $ 3.45

Extra Services & Fees (check box, add fee as appropriate)
- [X] Return Receipt (hardcopy) $ 2.75
- [ ] Return Receipt (electronic) $
- [ ] Certified Mail Restricted Delivery $
- [ ] Adult Signature Required $
- [ ] Adult Signature Restricted Delivery $

Postage $ .50

Total Postage and Fees $ 6.70

Postmark Here — WEST UNION, WV — OCT 13 2020 — USPS 26456-9998

Sent To: Earl R. Daugherty
Street and Apt. No., or PO Box No.: P.O. Box 341
City, State, ZIP+4®: West Union, WV 26456 20-583

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

THRASHER

COMPLEX PROJECTS
REQUIRE RESOLVE
THRASHER'S GOT IT

October 12, 2020

Mr. George Eidel
Doddridge County Office of Emergency Management
101 Church Street Suite 102
West Union, WV 26456

RE: Doddridge Co. Schools Early Childhood Academy
Floodplain Permit

Mr. Eidel;

In additional to the recently submitted H &H report, please find attached an approved WVDEP NPDES permit for the proposed project. The proposed project will be performed in several stages. The goal is to start working on the grading immediately to have the site ready for the building construction late winter and /or early spring. The proposed bridge would also start in late winter/early spring. The existing bridge will not be demoed until the proposed bridge is complete and all internal site roads are finished. Due to the location of the proposed bridge and the utilization of the existing bridge for access, there will be no need for the contractor to be in the stream. Therefore, a WVDNR and Corps of Engineers permit will not be necessary for the bridge construction. However, depending on the means and method of the demolition, additional permits may be necessary to remove existing pier. Also, with part of the existing bridge resting in a portion of the Rt. 18 right of way, a MM109 will be submitted. The DOH will require additional time to review the structural components of the bridge. Therefore, we are requesting if the floodplain permit could be issued now so that the site grading could begin and the DOH permit be provided to you prior to any bridge construction.

Please let me us know if you have any questions or comments.

Sincerely,
THE THRASHER GROUP, INC.

JEFF GOLA, P.E.
Project Manager

r:\060\060-10159.00-doddridge early childhood academy-doddridge county board of education-\documents\design\hec ras\flood-plain-letter.docx

Permit# 20-583

Project Name: Early Childhood Academy

Permittees Name: DCBOE

OCT 3 23 7:42AM

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 10/1/20

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Applicant Information:

Please provide all pertinent data.

Applicant Information		
Responsible Company Name: Doddridge Co. Board of Education		
Corporate Mailing Address: 68 Bulldog Drive		
City: West Union	**State:** WV	**Zip:** 26456
Corporate Point of Contact (POC): Jeff Harvey		
Corporate POC Title: Student Support Services		
Corporate POC Primary Phone: 317-716-3555		
Corporate POC Primary Email: jtharvey@k12.wv.us		
Corporate FEIN:	**Corporate DUNS:**	
Corporate Website:		
Local Mailing Address: Same as above		
City:	**State:**	**Zip:**
Local Project Manager (PM):		
Local PM Primary Phone:		
Local PM Secondary Phone:		
Local PM Primary Email:		
Person Filing Application: Jeff Harvey		
Applicant Title: Student Support Services		
Applicant Primary Phone: 317-716-3555		
Applicant Secondary Phone: 304+873-2300		
Applicant Primary Email: jtharvey@k12.wv.us		

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Project Narrative:

Describe in detail the proposed development including project name/title, type of development, estimated start and completion timeline, and its potential impact on the floodplain. Use additional copies of this page as needed.

Project Narrative:
The project is consists of constructing a Early Childhood Academy facility for the the Doddridge County BOE. The facility will house both pre-k and kindergarden students The proposed is for new facility is at the old high school football field. The structure will have finish floor elevation of 1186.5' which is roughly the elevation of the old baseball field and approximately 6.5' above the 100 year base flood flood. Over half the facility will rest on an area that will require 21,000 CY of excavation, the remaining facility (structure, parking lot, & access road) will be positioned on the engineered fill. We are also proposing a new bridge farther up rt. 18 that will span the entire Middle Island Creek with no piers and will allow place the proposed road crossing well above the 100 base flood. Once the new bridge is constructed, the existing bridge will be demoed allowing a larger waterway opening. The embankment constructed on the corner of the exiting football field only causes a small increase of only 0.06' increase in the 100 year base flood. The grading phase of the project is estimated to start in mid October with the entire facility being finished by the summer of 2022.

Proposed Development:

Please check all elements of the proposed project thatapply.

DESCRIPTION OF WORK (CHECK ALL APPLICABLE BOXES)

A. STRUCTURAL DEVELOPMENT

	ACTIVITY		STRUCTURAL TYPE
[X]	New Structure	[]	Residential (1 – 4 Family)
[]	Addition	[]	Residential (more than 4 Family)
[]	Alteration	[X]	Non-residential (floodproofing)
[]	Relocation	[]	Combined Use (res. & com.)
[]	Demolition	[]	Replacement
[]	Manufactured/Mobil Home		

B. OTHER DEVELOPLMENT ACTIVITIES:

[] Fill [] Mining [] Drilling [] Pipelining
[X] Grading
[] Excavation (except for STRUCTURAL DEVELOPMENT checked above)
[] Watercourse Alteration (including dredging and channel modification)
[] Drainage Improvements (including culvert work)
[X] 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: ____ of ____

Site/Property Information:		
Legal Description: M I CREEK ATHLETIC FIELD; 10.26 AC		
Physical Address/911 Address: 69 C Stansberry Field Rd.		
Decimal Latitude/Longitude: 39^17'21.75" , 80^46'11.37"		
DMS Latitude/Longitude: 39.289375, -80.769722		
District: 8 West Union Dist	**Map:** 0011	**Parcel:** 0077
Land Book Description: 612 - School		
Deed Book Reference: 94/229		
Tax Map Reference: 0011		
Existing Buildings/Use of Property: Athletic fields, concessions structure,		
locker rooms, bleachers, etc.		

Floodplain Location Data: ***(to be completed by Floodplain Manager or designee)***			
Community:	**Number:**	**Panel:**	**Suffix:**
Location (Lat/Long):		**Approximate Elevation:** **Estimated BFE:**	
Is the development in the floodway? ☐ **Yes** ☐ **No**		**Is the development in the floodplain?** ☐ **Yes** ☐ **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: ____ of ____		

Property Owner Data:		
Name of Primary Owner (PO): Doddridge County Board of Education		
PO Address: 68 Bulldog Drive		
City: West Union	**State:** WV	**Zip:** 26456
PO Primary Phone: 304-873-2300		
PO Secondary Phone: 317-716-3555		
PO Primary Email: jtharvey@k12.wv.us		

Surface Rights Owner Data:		
Name of Primary Owner (PO): Doddridge County Board of Education		
PO Address: 68 Bulldog Drive		
City: West Union	**State:** WV	**Zip:** 26456
PO Primary Phone: 304-873-2300		
PO Secondary Phone: 317-716-3555		
PO Primary Email: jtharvey@k12.wv.us		

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

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: ____ of ____

Contractor/Sub-Contractor (C/SC) Information:		
C/SC Company Name: bidding project - contractor unknown at this time		
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: The Thrasher Group, Inc		
Engineer WV License Number: 015621		
Engineer Firm FEIN: 55-0633596	**Engineer Firm DUNS:**	
Engineer Firm Primary Point of Contact (POC): Jeff Gola		
Engineer Firm Primary POC Title: Project Manager		
Engineer Firm Mailing Address: 600 White Oaks Blvd.		
City: Bridgeport	**State:** WV	**Zip-Code:** 26330
Engineer Firm Office Phone: 304-624-4108		
Engineer Firm Primary POC Phone: 304-326-6109		
Engineer Firm Primary POC E-Mail: jgola@thethrashergroup.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): Earl R. Daugherty		
Physical Address: Off Rt. 50		
City: West Union	**State:** WV	**Zip:** 26456
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Adjacent Property Owner Data: Upstream		
Name of Primary Owner (PO): Town of West Union		
Physical Address: 178 Court Street		
City: West Union	**State:** WV	**Zip:** 26456
PO Primary Phone: 304-873-4200		
PO Secondary Phone:		
PO Primary Email:		

Adjacent Property Owner Data: Downstream		
Name of Primary Owner (PO): Town of West Union		
Physical Address: 178 Court Street		
City: West Union	**State:** WV	**Zip:** 26456
PO Primary Phone: 304-873-4200		
PO Secondary Phone:		
PO Primary Email:		

Adjacent Property Owner Data: Downstream		
Name of Primary Owner (PO): James L. McAfee		
Physical Address: 13 Deer Lane		
City: West Union	**State:** WV	**Zip:** 26456
PO Primary Phone: 304-873-2192		
PO Secondary Phone:		
PO Primary Email:		

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 access roads)*
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: 10/1/20

Applicant Printed Name: JEFF T HARVEY

STREAM CROSSING & FLOODPLAIN ANALYSIS

DODDRIDGE COUNTY BOARD OF EDUCATION EARLY CHILDHOOD ACADEMY

MIDDLE ISLAND CREEK DODDRIDGE COUNTY, WEST VIRGINIA

PREPARED FOR:

DODDRIDGE COUNTY BOARD OF EDUCATION

PREPARED BY:

THE THRASHER GROUP, INC.
600 White Oaks Blvd
Bridgeport, WV 26330

OCTOBER 2020

DODDRIDGE COUNTY BOARD OF EDUCATION
DODDRIDGE COUNTY, WV

TABLE OF CONTENTS

APPENDICES

DODDRIDGE COUNTY BOARD OF EDUCATION
DODDRIDGE COUNTY, WEST VIRGINIA

1.0 PROJECT DESCRIPTION

The Thrasher Group has been contracted by the Doddridge County Board of Education (DCBOE) to perform a hydrologic and hydraulic (H&H) study for the development of a new Pre-K, also known as the "Project". The Project is located on property owned by the Doddridge County Board of Education located off State Route 18 within a 0.25 mile of US Route 50. (Lat.39°17'21.75", Long.80°46'11.37") The Project site will be constructed in the location of the old football and baseball field of Doddridge County High School. The project will consist of the construction of a new two-lane single span bridge that will cross Middle Island Creek and serve as the main entrance/exit of the school. The existing bridge downstream that is now used to serve the property will be demoed. The site will be graded raising the Pre-K out of the 100-year storm by excavating cut material from the northern hillside on the property and hauling it to the Pre-K building pad. The finish floor of the new structure will sit at 786.5, approximately 6.5 feet above the 100-year base flood plain.

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APPENDIX 1

HEC-RAS SUMMARY TABLES

HEC-RAS River: Middle Island Cr Reach: MIDDLE ISLAND CR Profile: PF 1

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				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
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MIDDLE ISLAND CR	3205.09	PF 1	PRO	13080.00	760.03	781.54		781.93	0.000470	5.11	2702.05	215.77	0.21
MIDDLE ISLAND CR	3105.09	PF 1	EX	13080.00	760.03	781.09		781.78	0.000938	6.69	2041.75	148.32	0.29
MIDDLE ISLAND CR	3105.09	PF 1	PRO	13080.00	760.03	781.16		781.84	0.000925	6.66	2052.67	148.86	0.29
MIDDLE ISLAND CR	3005.09	PF 1	EX	13080.00	760.03	781.10		781.65	0.000680	5.96	2220.18	126.07	0.24
MIDDLE ISLAND CR	3005.09	PF 1	PRO	13080.00	760.03	781.18		781.72	0.000672	5.93	2229.37	126.37	0.24
MIDDLE ISLAND CR	2805.09	PF 1	EX	13080.00	760.03	780.99		781.51	0.000636	5.79	2275.54	129.81	0.24
MIDDLE ISLAND CR	2805.09	PF 1	PRO	13080.00	760.03	781.07		781.58	0.000628	5.76	2285.20	130.07	0.24
MIDDLE ISLAND CR	2605.09	PF 1	EX	13080.00	760.02	780.88		781.38	0.000688	5.66	2309.12	140.50	0.25
MIDDLE ISLAND CR	2605.09	PF 1	PRO	13080.00	760.02	780.95		781.45	0.000680	5.64	2319.84	140.94	0.25
MIDDLE ISLAND CR	2305.09	PF 1	EX	13080.00	760.01	780.77		781.16	0.000546	5.20	2877.23	416.78	0.23
MIDDLE ISLAND CR	2305.09	PF 1	PRO	13080.00	760.01	780.76		781.25	0.000642	5.64	2353.95	186.77	0.24
MIDDLE ISLAND CR	2105.09	PF 1	EX	13080.00	760.01	780.71		781.04	0.000500	4.96	3135.40	427.59	0.21
MIDDLE ISLAND CR	2105.09	PF 1	PRO	13080.00	760.01	780.62		781.12	0.000680	5.77	2449.05	276.36	0.25
MIDDLE ISLAND CR	1905.09	PF 1	EX	13080.00	760.00	780.48		780.91	0.000645	5.98	2914.07	479.42	0.24
MIDDLE ISLAND CR	1905.09	PF 1	PRO	13080.00	760.00	780.36		780.96	0.000824	6.73	2464.86	381.21	0.27
MIDDLE ISLAND CR	1798.73	PF 1	EX	13080.00	760.00	780.46		780.83	0.000536	5.32	3043.76	484.61	0.22
MIDDLE ISLAND CR	1798.73	PF 1	PRO	13080.00	760.00	780.41		780.83	0.000581	5.53	2878.88	457.03	0.23
MIDDLE ISLAND CR	1714.52	PF 1	EX	13080.00	760.00	780.41		780.79	0.000513	5.31	3062.41	480.15	0.22
MIDDLE ISLAND CR	1714.52	PF 1	PRO	13080.00	760.00	780.37	768.56	780.78	0.000550	5.49	2933.07	469.01	0.23
MIDDLE ISLAND CR	1626.52	PF 1	EX	13080.00	760.00	780.28		780.73	0.000623	5.84	2830.29	462.03	0.24
MIDDLE ISLAND CR,	1626.52	PF 1	PRO	13080.00	760.00	780.18		780.68	0.000682	6.09	2687.57	454.43	0.25
MIDDLE ISLAND CR	1605.09	PF 1	EX	13080.00	760.00	780.28		780.71	0.000667	5.69	2813.87	454.62	0.24
MIDDLE ISLAND CR	1605.09	PF 1	PRO	13080.00	760.00	780.17		780.66	0.000733	5.93	2670.87	449.47	0.25
MIDDLE ISLAND CR	1521.67	PF 1	EX	13080.00	760.00	780.26	768.32	780.65	0.000582	5.26	3002.05	494.47	0.23
MIDDLE ISLAND CR	1521.67	PF 1	PRO	13080.00	760.00	780.15		780.58	0.000646	5.52	2820.81	492.74	0.24
MIDDLE ISLAND CR	1481			PROPOSED SINGLE SPAN BRIDGE									
MIDDLE ISLAND CR	1452.53	PF 1	EX	13080.00	760.00	780.20		780.52	0.000456	4.87	3284.38	467.49	0.20
MIDDLE ISLAND CR	1452.53	PF 1	PRO	13080.00	760.00	780.16		780.52	0.000495	5.06	3124.70	467.26	0.21
MIDDLE ISLAND CR	1405.09	PF 1	EX	13080.00	760.00	780.15		780.50	0.000483	5.10	3201.39	440.16	0.21
MIDDLE ISLAND CR	1405.09	PF 1	PRO	13080.00	760.00	780.11		780.50	0.000516	5.27	3050.60	413.31	0.22
MIDDLE ISLAND CR	1305.09	PF 1	EX	13080.00	760.00	780.04		780.44	0.000543	5.46	2967.49	354.96	0.22
MIDDLE ISLAND CR	1305.09	PF 1	PRO	13080.00	760.00	780.04		780.44	0.000543	5.46	2967.49	354.96	0.22
MIDDLE ISLAND CR	1205.09	PF 1	EX	13080.00	760.00	780.00		780.38	0.000530	5.36	2995.90	340.84	0.22
MIDDLE ISLAND CR	1205.09	PF 1	PRO	13080.00	760.00	780.00		780.38	0.000530	5.36	2995.90	340.84	0.22
MIDDLE ISLAND CR	1105.09	PF 1	EX	13080.00	760.00	779.64	769.54	780.29	0.000873	6.76	2235.60	200.28	0.28
MIDDLE ISLAND CR	1105.09	PF 1	PRO	13080.00	760.00	779.64	769.54	780.29	0.000873	6.76	2235.60	200.28	0.28
MIDDLE ISLAND CR	1072			EXISTING DAM									

HEC-RAS River: Middle Island Cr Reach: MIDDLE ISLAND CR Profile: PF 1 (Continued)

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				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
MIDDLE ISLAND CR	1033.84	PF 1	EX	13080.00	760.00	779.00	770.39	779.97	0.001226	8.04	1798.14	147.64	0.34
MIDDLE ISLAND CR	1033.84	PF 1	PRO	13080.00	760.00	779.00	770.39	779.97	0.001226	8.04	1798.14	147.64	0.34

APPENDIX 2

HEC-RAS CROSS-SECTIONS

APPENDIX 3

SITE PLANS

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NO.	BY	DATE	DESCRIPTION

SCALE:
DRAWN: DATE:
CHECKED: DATE:
APPROVED: DATE:
SURVEY DATE:
SURVEY BY:
FIELD BOOK No.:

THRASHER
600 WHITE OAKS BLVD. P.O. BOX 940
BRIDGEPORT WV 26330
www.thrashereng.com
PHONE (304) 624-4108
FAX (304) 624-7831

PHASE No.
CONTRACT No.
PROJECT No.

DODDRIDGE COUNTY BOARD OF EDUCATION
DODDRIDGE COUNTY, WEST VIRGINIA

HEC-RAS MODEL X-SECTIONS

SHEET No.
1

CAD FILE: R:\060\060-10008-PRE-K DAYCARE FACILITY-DODDRIDGE CO BOE-\Drawing\DC-EDA Redesign Work\Xsecs - Copy.dwg PLOT DATE/TIME: 10/7/2020 4:43 PM LAYOUT: Layout1 USER: jeffrey gola

CAD FILE: R:\060\060-10159.00-Doddridge Early Childhood Academy-Doddridge County Board Of Education-\DRAWINGS\CIVIL\10159-GRADING PLAN PHASE 1.dwg PLOT DATE/TIME: 10/7/2020 4:28 PM LAYOUT: Layout1 USER: bruce degroot

NO.	BY	DATE	DESCRIPTION
1	BD	9/21/2020	CUT CHANGED TO 2.5:1 AND SHIFTED GUARDRAIL

SCALE:
DRAWN: DATE:
CHECKED: DATE:
APPROVED: DATE:
SURVEY DATE:
SURVEY BY:
FIELD BOOK No.:

THRASHER
600 WHITE OAKS BLVD. P.O. BOX 940
BRIDGEPORT WV 26330
www.thrashereng.com
PHONE (304) 624-4108 FAX (304) 624-7831

PHASE No.
CONTRACT No.
PROJECT No. 60-10159

EARLY CHILDHOOD ACADEMY SITE GRADING
BOARD OF EDUCATION
DODDRIDGE COUNTY, WEST VIRGINIA
GRADING PLAN

SHEET No. 3

CAD FILE: R:\060\060-10159.00-Doddridge Early Childhood Academy-Doddridge County Board Of Education-\DRAWINGS\CIVIL\10159-Site Plan.dwg PLOT DATE/TIME: 10/7/2020 4:29 PM LAYOUT: Layout1 USER: bruce degroat

NO.	BY	DATE	DESCRIPTION

SCALE:	
DRAWN:	DATE:
CHECKED:	DATE:
APPROVED:	DATE:
SURVEY DATE:	
SURVEY BY:	
FIELD BOOK No.:	

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DODDRIDGE EARLY CHILDHOOD ACADEMY
BOARD OF EDUCATION
DODDRIDGE COUNTY, WEST VIRGINIA
SITE LAYOUT

SHEET No.
X

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.

HIGH RISK

Zone AE	1-Percent-Annual-Chance Flood Hazard Area **With Base Flood Elevation** (BFE)
Floodway	Regulatory **Floodway in AE Zone**
Zone A	1-Percent-Annual-Chance Flood Hazard Area **Without BFE** (may have Advisory Flood Heights)
Advisory	1-Percent-Annual-Chance **High Risk Advisory**

Download the Full Legend for all flood tool symbols
http://www.mapwv.gov/flood/map/docs/wv_flood_tool_legend.pdf

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 Info Location — *Map created on 10/8/2020*

User Notes

Flood Hazard Area	Location is **NOT WITHIN** any identified flood hazard area. Unmapped flood hazard areas may be present.
Flood Zone	Out of Flood Zone
Stream	
Watershed (HUC8)	Little Musringum-Middle Island (5030201)
Flood Height	
Water Depth	About 10.0 ft (Source: HAZUS)
Elevation	777.7 ft (Source: SAMS 2003) (NAVD88)
Community & ID	Doddridge County (ID: 540024)
FEMA Map & Date	54017C0120C; Effective Date: 10/4/2011
Location (lat, long)	(39.289528, -80.770311) (WGS84)
Parcel ID	09-08-0011-0077-0000
E-911 Address	multiple addresses

STREAM CROSSING & FLOODPLAIN ANALYSIS

DODDRIDGE COUNTY BOARD OF EDUCATION EARLY CHILDHOOD ACADEMY

MIDDLE ISLAND CREEK DODDRIDGE COUNTY, WEST VIRGINIA

PREPARED FOR:

DODDRIDGE COUNTY BOARD OF EDUCATION

PREPARED BY:

THE THRASHER GROUP, INC.
600 White Oaks Blvd
Bridgeport, WV 26330

OCTOBER 2020

DODDRIDGE COUNTY BOARD OF EDUCATION
DODDRIDGE COUNTY, WV

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MIDDLE ISLAND CR	3205.09	PF 1	EX	13080.00	760.03	781.47		781.87	0.000477	5.13	2687.02	215.12	0.21
MIDDLE ISLAND CR	3205.09	PF 1	PRO	13080.00	760.03	781.54		781.93	0.000470	5.11	2702.05	215.77	0.21
MIDDLE ISLAND CR	3105.09	PF 1	EX	13080.00	760.03	781.09		781.78	0.000938	6.69	2041.75	148.32	0.29
MIDDLE ISLAND CR	3105.09	PF 1	PRO	13080.00	760.03	781.16		781.84	0.000925	6.66	2052.67	148.86	0.29
MIDDLE ISLAND CR	3005.09	PF 1	EX	13080.00	760.03	781.10		781.65	0.000680	5.96	2220.18	126.07	0.24
MIDDLE ISLAND CR	3005.09	PF 1	PRO	13080.00	760.03	781.18		781.72	0.000672	5.93	2229.37	126.37	0.24
MIDDLE ISLAND CR	2805.09	PF 1	EX	13080.00	760.03	780.99		781.51	0.000636	5.79	2275.54	129.81	0.24
MIDDLE ISLAND CR	2805.09	PF 1	PRO	13080.00	760.03	781.07		781.58	0.000628	5.76	2285.20	130.07	0.24
MIDDLE ISLAND CR	2605.09	PF 1	EX	13080.00	760.02	780.88		781.38	0.000688	5.66	2309.12	140.50	0.25
MIDDLE ISLAND CR	2605.09	PF 1	PRO	13080.00	760.02	780.95		781.45	0.000680	5.64	2319.84	140.94	0.25
MIDDLE ISLAND CR	2305.09	PF 1	EX	13080.00	760.01	780.77		781.16	0.000546	5.20	2877.23	416.78	0.23
MIDDLE ISLAND CR	2305.09	PF 1	PRO	13080.00	760.01	780.76		781.25	0.000642	5.64	2353.95	186.77	0.24
MIDDLE ISLAND CR	2105.09	PF 1	EX	13080.00	760.01	780.71		781.04	0.000500	4.96	3135.40	427.59	0.21
MIDDLE ISLAND CR	2105.09	PF 1	PRO	13080.00	760.01	780.62		781.12	0.000680	5.77	2449.05	276.36	0.25
MIDDLE ISLAND CR	1905.09	PF 1	EX	13080.00	760.00	780.48		780.91	0.000645	5.98	2914.07	479.42	0.24
MIDDLE ISLAND CR	1905.09	PF 1	PRO	13080.00	760.00	780.36		780.96	0.000824	6.73	2464.86	381.21	0.27
MIDDLE ISLAND CR	1798.73	PF 1	EX	13080.00	760.00	780.46		780.83	0.000536	5.32	3043.76	484.61	0.22
MIDDLE ISLAND CR	1798.73	PF 1	PRO	13080.00	760.00	780.41		780.83	0.000581	5.53	2878.88	457.03	0.23
MIDDLE ISLAND CR	1714.52	PF 1	EX	13080.00	760.00	780.41		780.79	0.000513	5.31	3062.41	480.15	0.22
MIDDLE ISLAND CR	1714.52	PF 1	PRO	13080.00	760.00	780.37	768.56	780.78	0.000550	5.49	2933.07	469.01	0.23
MIDDLE ISLAND CR	1626.52	PF 1	EX	13080.00	760.00	780.28		780.73	0.000623	5.84	2830.29	462.03	0.24
MIDDLE ISLAND CR	1626.52	PF 1	PRO	13080.00	760.00	780.18		780.68	0.000682	6.09	2687.57	454.43	0.25
MIDDLE ISLAND CR	1605.09	PF 1	EX	13080.00	760.00	780.28		780.71	0.000667	5.69	2813.87	454.62	0.24
MIDDLE ISLAND CR	1605.09	PF 1	PRO	13080.00	760.00	780.17		780.66	0.000733	5.93	2670.87	449.47	0.25
MIDDLE ISLAND CR	1521.67	PF 1	EX	13080.00	760.00	780.26	768.32	780.65	0.000582	5.26	3002.05	494.47	0.23
MIDDLE ISLAND CR	1521.67	PF 1	PRO	13080.00	760.00	780.15		780.58	0.000646	5.52	2820.81	492.74	0.24
MIDDLE ISLAND CR	1481			PROPOSED SINGLE SPAN BRIDGE									
MIDDLE ISLAND CR	1452.53	PF 1	EX	13080.00	760.00	780.20		780.52	0.000456	4.87	3284.38	467.49	0.20
MIDDLE ISLAND CR	1452.53	PF 1	PRO	13080.00	760.00	780.16		780.52	0.000495	5.06	3124.70	467.26	0.21
MIDDLE ISLAND CR	1405.09	PF 1	EX	13080.00	760.00	780.15		780.50	0.000483	5.10	3201.39	440.16	0.21
MIDDLE ISLAND CR	1405.09	PF 1	PRO	13080.00	760.00	780.11		780.50	0.000516	5.27	3050.60	413.31	0.22
MIDDLE ISLAND CR	1305.09	PF 1	EX	13080.00	760.00	780.04		780.44	0.000543	5.46	2967.49	354.96	0.22
MIDDLE ISLAND CR	1305.09	PF 1	PRO	13080.00	760.00	780.04		780.44	0.000543	5.46	2967.49	354.96	0.22
MIDDLE ISLAND CR	1205.09	PF 1	EX	13080.00	760.00	780.00		780.38	0.000530	5.36	2995.90	340.84	0.22
MIDDLE ISLAND CR	1205.09	PF 1	PRO	13080.00	760.00	780.00		780.38	0.000530	5.36	2995.90	340.84	0.22
MIDDLE ISLAND CR	1105.09	PF 1	EX	13080.00	760.00	779.64	769.54	780.29	0.000873	6.76	2235.60	200.28	0.28
MIDDLE ISLAND CR	1105.09	PF 1	PRO	13080.00	760.00	779.64	769.54	780.29	0.000873	6.76	2235.60	200.28	0.28
MIDDLE ISLAND CR	1072			EXISTING DAM									

HEC-RAS River: Middle Island Cr Reach: MIDDLE ISLAND CR Profile: PF 1 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
MIDDLE ISLAND CR	1033.84	PF 1	EX	13080.00	760.00	779.00	770.39	779.97	0.001226	8.04	1798.14	147.64	0.34
MIDDLE ISLAND CR	1033.84	PF 1	PRO	13080.00	760.00	779.00	770.39	779.97	0.001226	8.04	1798.14	147.64	0.34

APPENDIX 2

HEC-RAS CROSS-SECTIONS

NO.	BY	DATE	DESCRIPTION

SCALE:
DRAWN: DATE:
CHECKED: DATE:
APPROVED: DATE:
SURVEY DATE:
SURVEY BY:
FIELD BOOK No.:

THRASHER
600 WHITE OAKS BLVD. P.O. BOX 940
BRIDGEPORT WV 26330
www.thrasherenq.com
PHONE (304) 624-4108
FAX (304) 624-7831

PHASE No.
CONTRACT No.
PROJECT No.

DODDRIDGE COUNTY BOARD OF EDUCATION
DODDRIDGE COUNTY, WEST VIRGINIA
HEC-RAS MODEL X-SECTIONS

SHEET No. 1

CAD FILE: R:\060\060-10006-PRE-K DAYCARE FACILITY-DODDRIDGE CO BOE-\Drawing\DC-ECA Redesign Work Viscros - Copy.dwg
PLOT DATE/TIME: 10/1/2020 4:43 PM LAYOUT: Layout1 USER: jeffrey goio

APPENDIX 3

SITE PLANS

CAD FILE: R:\060\060-10159.00-Doddridge Early Childhood Academy-Doddridge County Board Of Education-\DRAWINGS\CIVIL\10159-Site Plan.dwg
PLOT DATE/TIME: 10/7/2020 4:29 PM LAYOUT: Layout1 USER: bruce degroot

NO.	BY	DATE	DESCRIPTION

SCALE:	
DRAWN:	DATE:
CHECKED:	DATE:
APPROVED:	DATE:
SURVEY DATE:	
SURVEY BY:	
FIELD BOOK No.:	

THRASHER
600 WHITE OAKS BLVD. P.O. BOX 940
BRIDGEPORT WV 26330
www.thrashereng.com
PHONE (304) 624-4108
FAX (304) 624-7831

PHASE No.

CONTRACT No.

PROJECT No.
60-10159

DODDRIDGE EARLY CHILDHOOD ACADEMY
BOARD OF EDUCATION
DODDRIDGE COUNTY, WEST VIRGINIA
SITE LAYOUT

SHEET No.
X

PLOT DATE/TIME: 10/7/2020 4:26 PM LAYOUT: Layout1 USER: bruce degroot

CAD FILE: R:\060\060-10159.00-Doddridge Early Childhood Academy-Doddridge County Board Of Education-\DRAWINGS\CIVIL\10159-GRADING PLAN PHASE 1.dwg

NO.	BY	DATE	DESCRIPTION
1	BD	9/21/2020	CUT CHANGED TO 2.5:1 AND SHIFTED GUARDRAIL

SCALE:	
DRAWN:	DATE:
CHECKED:	DATE:
APPROVED:	DATE:
SURVEY DATE:	
SURVEY BY:	
FIELD BOOK No.:	

THRASHER
600 WHITE OAKS BLVD. P.O. BOX 940
BRIDGEPORT WV 26330
www.thrasherenq.com
PHONE (304) 624-4108
FAX (304) 624-7831

PHASE No.

CONTRACT No.

PROJECT No. 60-10159

EARLY CHILDHOOD ACADEMY SITE GRADING BOARD OF EDUCATION DODDRIDGE COUNTY, WEST VIRGINIA GRADING PLAN

SHEET No. 3

3.1 Hydrologic Analyses

Hydrologic analyses were carried out to establish the peak discharge-frequency relationships for each flooding source studied in detail affecting the county.

Discharge-frequency curves were developed on a regional basis that applies to West Virginia (References 3 and 4). For the streams studied by detailed methods, 1-percent-annual-chance flood elevations were determined through discharge-frequency relations and the Manning equation. Within the Town of West Union, flood elevations were determined through streamflow-station data relationships and the Manning's equation.

Peak discharge-drainage area relationships for each stream studied by detailed methods are presented in Table 2, "Summary of Discharges".

Table 2 – Summary of Discharges

FLOODING SOURCE AND LOCATION	DRAINAGE AREA (SQ. MILES)	PEAK DISCHARGE (CFS) 1-PERCENT-ANNUAL- CHANCE
MIDDLE ISLAND CREEK		
Upstream of Doddridge-Tyler County boundary	134.78	15,200
Approximately 0.1 mile downstream of confluence of Piggin Run	120.06	13,080
BUCKEYE CREEK		
At confluence with Middle Island Creek	38.62	7,350
Downstream of confluence of Long Run	22.62	5,150
Upstream of confluence of Greenbrier Creek	9.41	3,050
Downstream of confluence of Traugh Fork	1.52	1,310
MEATHOUSE FORK		
At confluence with Middle Island Creek	66.84	9,600
Downstream of confluence of Toms Fork	50.47	8,200
Downstream of confluence of Brushy Fork	29.87	6,050
Downstream of confluence of Laurel Run and Big Isaac Creek	3.76	2,230
MCELROY CREEK		
Upstream of confluence of Flint Run	61.95	9,250
Upstream of confluence of Rigging Run	51.23	8,300
Downstream of confluence of Talkington Fork	39.18	7,100
Downstream of confluence of Robinson Fork and Big Battle Run	20.75	4,900

using the USACE HEC-2 step-backwater computer program, and the results were published in a special flood hazard information report (References 5 and 6). Flood profiles were drawn showing computed water-surface elevations for floods of the selected recurrence intervals.

Channel roughness factors (Manning's "n") used in the hydraulic computations were assigned on the basis of field surveys of the stream and floodplain areas. For Middle Island Creek, channel "n" values range from 0.040 to 0.045 and overbank "n" values range from 0.050 to 0.070. For Buckeye Creek and Meathouse Fork, channel "n" values range from 0.055 to 0.080.

The hydraulic analyses for this study were based on unobstructed flow. The flood elevations shown on the profiles are thus considered valid only if hydraulic structures remain unobstructed, operate properly, and do not fail.

Qualifying benchmarks within a given jurisdiction that are catalogued by the National Geodetic Survey (NGS) and entered into the National Spatial Reference System (NSRS) as First or Second Order Vertical and have a vertical stability classification of A, B or C are shown and labeled on the FIRM with their 6-character NSRS Permanent Identifier.

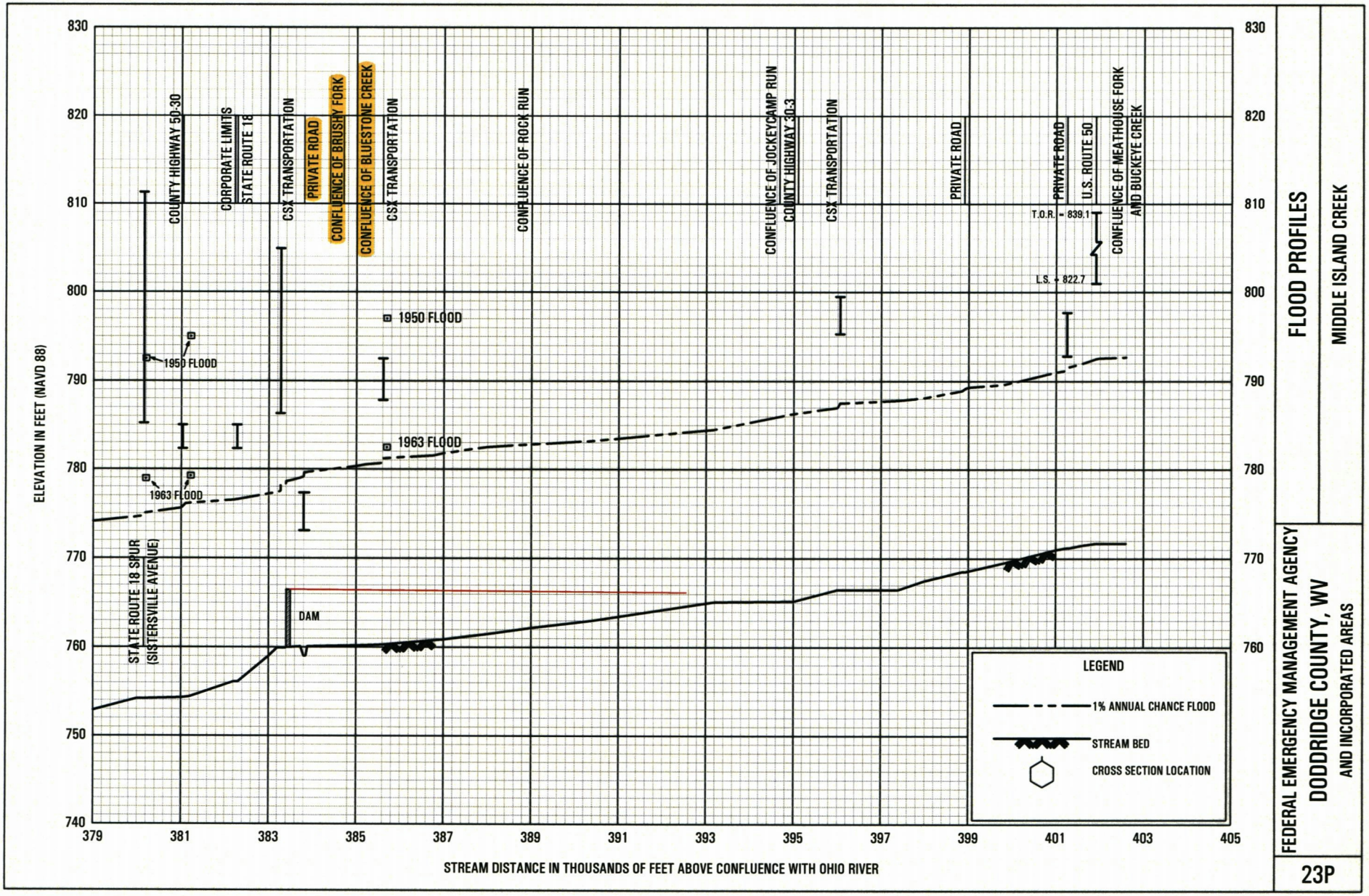
Benchmarks catalogued by the NGS and entered into the NSRS vary widely in vertical stability classification. NSRS vertical stability classifications are as follows:

- Stability A: Monuments of the most reliable nature, expected to hold position/elevation (e.g. mounted in bedrock)
- Stability B: Monuments which generally hold their position/elevation (e.g. concrete bridge abutment)
- Stability C: Monuments which may be affected by surface ground movements (e.g. concrete monument below frost line)
- Stability D: Mark of questionable or unknown vertical stability (e.g. concrete monument above frost line, or steel witness post)

In addition to NSRS benchmarks, the FIRM may also show vertical control monuments established by a local jurisdiction; these monuments will be shown on the FIRM with the appropriate designations. Local monuments will only be placed on the FIRM if the community has requested that they be included, and if the monuments meet the aforementioned NSRS inclusion criteria.

To obtain current elevation, description, and/or location information for benchmarks shown on the FIRM for this jurisdiction, please contact the Information Services Branch of the NGS at (301) 713-3242, or visit their Web site at www.ngs.noaa.gov.

It is important to note that temporary vertical monuments are often established during the preparation of a flood hazard analysis for the purpose of establishing local vertical control. Although these monuments are not shown on the FIRM, they may be found in the Technical Support Data Notebook associated with the FIS report and FIRM for this community. Interested individuals may contact FEMA to access these data.



FLOOD PROFILES

MIDDLE ISLAND CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

DODDRIDGE COUNTY, WV

AND INCORPORATED AREAS

23P

Gmail

George Eidel <doddridgecountyfpm@gmail.com>

Doddridge Co. Early Childhood Academy

Jeffrey Gola <jgola@thethrashergroup.com> Tue, Oct 13, 2020 at 8:50 AM
To: George Eidel <doddridgecountyfpm@gmail.com>

Thanks George,

I forgot to attach the NPDEs permit. It would it be an issue if constructed a sediment trap and rock stone entrance. Neither would be filling in the floodplain, just digging out to catch any sediment?

thanks

JEFFREY GOLA, PE
Project Manager | The Thrasher Group, Inc.

office: 304-326-6109 | 800-273-6541

mobile: 304-677-9830
600 White Oaks Blvd | Bridgeport, WV 26330

www.thethrashergroup.com

From: George Eidel <doddridgecountyfpm@gmail.com>
Sent: Monday, October 12, 2020 4:45 PM
To: Jeffrey Gola <jgola@thethrashergroup.com>
Subject: Re: Doddridge Co. Early Childhood Academy

CAUTION: External E-mail

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Approval for WVR111011.pdf
38K

west virginia department of environmental protection

Division of Waster and Water Management
601 57th Street SE
Charleston West Virginia 25304-2345
Phone: 304-926-0495
Fax: 304-926-0496

Austin Caperton, Cabinet Secretary
dep.wv.gov

October 8, 2020

DODDRIDGE COUNTY BOARD OF EDUCATION
JEFF HARVEY
68 BULLDOG DRIVE
WEST UNION, WV 26456

Re: General Permit Registration No. WVR111011
Early Childhood Academy
Acres Permitted (10)

Dear Permittee:

You are now authorized to operate under General Permit No. WV0115924 to discharge stormwater associated with construction activities. This registration form should be kept with your copy of the General Permit. You should carefully read the contents of the permit and become familiar with all requirements needed to remain in compliance.

Although you should be aware of all the terms and conditions of this permit, we wish to advise you of the following important requirements:

1. In accordance with the General Permit, you have developed a complete storm water pollution prevention plan. This plan is to be retained on site and be available for review by the Director or the Director's authorized representative as of the date of your coverage by the General Permit, which is the date of this letter.

2. The erosion control measures approved by this Agency for this project shall be maintained in proper condition to individually and collectively perform the functions for which they were designed. In order to ensure the efficiency and proper maintenance of these measures, the permittee shall make sufficiently frequent, periodic inspections to detect any impairment of the designed stability, capacity or environmental requirements of the approved measures. The permittee shall take immediate steps to correct any such impairment found to exist.

3. If this Storm Water Pollution Prevention Plan (SWPPP) proves to be ineffective in controlling erosion and the sediment in storm water discharges associated with industrial/construction activities, or site conditions change, the Permittee shall amend the

SWPPP and install appropriate sediment and/or control devices in accordance with this permit and the application instructions

4. Final stabilization means disturbed areas shall be covered by the appropriate permanent protection. Final stabilization includes pavement; compacted gravel; permeable pavement/pavers; buildings; stable waterways (riprap, concrete, grass or pipe); a healthy, vigorous stand of perennial grass that uniformly covers at least 70 percent of the ground; stable outlet channels with velocity dissipation which directs site runoff to a natural watercourse; and any other approved structure or material.

Your project has not been public noticed therefore this permit registration is valid from 10/8/2020 till 10/8/2021.

You will be invoiced for your annual permit fees one month prior to the anniversary date of your original approval date. Failure to submit the annual fee within 90 days of the due date will render your permit void upon the date you are mailed a certified written notice to that effect.

Issuance of this registration does not authorize any injury to persons or property or invasion of other private rights, or any infringement of federal, state or local law or rules.

The validity of this General Permit Registration is contingent upon payment of the applicable annual permit fee, as required by Chapter 22, Article 11, Section 10 of the Code of West Virginia.

Your efforts toward preventing the degradation of our natural resources are greatly appreciated. If you have any questions relative to this approval, please do not hesitate to contact **Dale Biller** at (304) 926-0499 Ext. **43766** or by email at robert.d.biller@wv.gov.

Katheryn D. Emery
Acting Director
WV DEP-Division of Water & Waste Mgt.
601 57th St SE
Charleston, WV 25304-2345
Phone: (304) 926-0495
Fax: (304) 926-0463

Gmail **George Eidel <doddridgecountyfpm@gmail.com>**

Floodplain Permit for New Bridge

Jeffrey Gola <jgola@thethrashergroup.com> Fri, Oct 30, 2020 at 9:24 AM
To: George Eidel <doddridgecountyfpm@gmail.com>

Thanks George,

I just waiting on the WVDOH D4 to give me the MM109 permit. I talked to them yesterday and should be coming soon. Attached is the WVDEP permit. For the construction of the new bridge and site grading, neither a Corps or WVDNR permit will be needed.

Thanks again for your assistance.

JEFFREY GOLA, PE
Project Manager | The Thrasher Group, Inc.

office: 304-326-6109 | 800-273-6541

mobile: 304-677-9830
600 White Oaks Blvd | Bridgeport, WV 26330

www.thethrashergroup.com

From: George Eidel <doddridgecountyfpm@gmail.com>
Sent: Friday, October 30, 2020 9:15 AM
To: Jeffrey Gola <jgola@thethrashergroup.com>
Subject: Floodplain Permit for New Bridge

CAUTION: External E-mail

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Approval for WVR111011.pdf
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west virginia department of environmental protection

Division of Waster and Water Management
601 57th Street SE
Charleston West Virginia 25304-2345
Phone: 304-926-0495
Fax: 304-926-0496

Austin Caperton, Cabinet Secretary
dep.wv.gov

October 8, 2020

DODDRIDGE COUNTY BOARD OF EDUCATION
JEFF HARVEY
68 BULLDOG DRIVE
WEST UNION, WV 26456

Re: General Permit Registration No. WVR111011
Early Childhood Academy
Acres Permitted (10)

Dear Permittee:

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Although you should be aware of all the terms and conditions of this permit, we wish to advise you of the following important requirements:

1. In accordance with the General Permit, you have developed a complete storm water pollution prevention plan. This plan is to be retained on site and be available for review by the Director or the Director's authorized representative as of the date of your coverage by the General Permit, which is the date of this letter.

2. The erosion control measures approved by this Agency for this project shall be maintained in proper condition to individually and collectively perform the functions for which they were designed. In order to ensure the efficiency and proper maintenance of these measures, the permittee shall make sufficiently frequent, periodic inspections to detect any impairment of the designed stability, capacity or environmental requirements of the approved measures. The permittee shall take immediate steps to correct any such impairment found to exist.

3. If this Storm Water Pollution Prevention Plan (SWPPP) proves to be ineffective in controlling erosion and the sediment in storm water discharges associated with industrial/construction activities, or site conditions change, the Permittee shall amend the

SWPPP and install appropriate sediment and/or control devices in accordance with this permit and the application instructions

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Your project has not been public noticed therefore this permit registration is valid from 10/8/2020 till 10/8/2021.

You will be invoiced for your annual permit fees one month prior to the anniversary date of your original approval date. Failure to submit the annual fee within 90 days of the due date will render your permit void upon the date you are mailed a certified written notice to that effect.

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The validity of this General Permit Registration is contingent upon payment of the applicable annual permit fee, as required by Chapter 22, Article 11, Section 10 of the Code of West Virginia.

Your efforts toward preventing the degradation of our natural resources are greatly appreciated. If you have any questions relative to this approval, please do not hesitate to contact **Dale Biller** at (304) 926-0499 Ext. **43766** or by email at robert.d.biller@wv.gov.

Katheryn D. Emery
Acting Director
WV DEP-Division of Water & Waste Mgt.
601 57th St SE
Charleston, WV 25304-2345
Phone: (304) 926-0495
Fax: (304) 926-0463

West Virginia Department of Transportation
Division of Highways
Right-of-way Encroachment Permit Application

Form MM-109
Rev. 12-9-2019

PERMIT NO. 04-2020-0849

PERMIT TO ENTER UPON, UNDER, OVER OR ACROSS THE STATE ROADS OF THE STATE OF WEST VIRGINIA.

THIS PERMIT, Made this 17 day of November 20 20, between the WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, a statutory corporation hereinafter called DIVISION and Doddridge County Board of Education

Address: 68 Bulldog Drive, West Union, WV Phone No: 304-873-2300

hereinafter called APPLICANT.

WITNESSETH

In consideration of the hereinafter set out covenants and in accordance with W. Va. Code §17-2E-1 *et seq.*, §17-4-8, §17-16-6, §17-16-9, §31H-1-1 *et seq.*, federal law, and the rules, policies, guidelines, manuals, and federal regulations promulgated thereunder, APPLICANT does hereby apply to enter

Route Type & No. WV 18 DOH Project No. - (if applicable);

at 0.25mi north of the jct. of US 50 (-80.7716, 39.2892) Mile Post 19.00

in Doddridge County, for the purposes hereinafter set forth and in accordance with the plans and specifications which are attached hereto and made a part hereof:

Construction and maintenance of an access to a new school location. Board of Education shall construct, own and maintain the bridge at this location. Remove vegetation and maintain visibility at the new access.

APPLICANT further agrees to accept the conditions hereinafter set forth:

1. APPLICANT shall deposit with DIVISION the sum of $ - in the form of an official, certified or cashier's check, or executed bond with surety satisfactory to DIVISION to cover any damage and inspection costs DIVISION may sustain by reason of the granting of this permit, including any expense incurred in restoring said highway to its original condition or the proper repair of any and all damages that may result within one (1) year from the date of the completion of said work.

2. APPLICANT agrees to reimburse DIVISION for inspection costs as follows:
   A. For any inspection costs incurred under this permit.
   B. At $ _____ per linear foot for _____ feet of water line installed under this permit
   C. At $ _____ per linear foot for _____ feet of sewer line installed under this permit

3. APPLICANT shall notify DIVISION at least 48 hours in advance of the date the work will begin. Failure to comply will be cause for cancellation of this permit.

4. APPLICANT agrees to protect its employees, equipment and users of the highway at all times in accordance with the current Division of Highways manual "Traffic Control For Street and Highway Construction and Maintenance Operations".

5. APPLICANT agrees to comply with all applicable state and federal laws in the performance of work under this permit.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

Office of the District Engineer/Manager
District Four

Byrd E. White, III
Secretary of Transportation

PO Box 4220 (EXIT 121, I-79) * Clarksburg, WV 26302 * 304-842-1550
December 4, 2020

BOARD OF EDUCATION, DODDRIDGE COUNTY
68 BULLDOG DRIVE
WEST UNION, WV 26456

Dear Applicant:

Your approved copy of Permit Number **04-2020-0849** for a **AC - Approach Commercial** permit type is enclosed. A description of the work is on the permit.

Please contact the District Four office:

304-326-0119

at least 48 hours in advance of the date you plan to begin work so arrangements can be made to inspect the work authorized by the permit.

Failure to comply will result in cancellation of your permit.

A copy of this permit is to be available on the job at all times while the work is in progress for inspection by the West Virginia Division of Highways' personnel.

Sincerely,

Michael Cronin

District Engineer / District Manager

Permit Supervisor

Initials: AS:MC:tc
Attachments: Yes
Enclosure: No
cc:OM 0409 MD file

6. Supplementary conditions cited below are understood and agreed to be a part hereof.

7. The work authorized under this permit shall be completed on or before (Date): 17th November 21

I attest that I have not modified the terms of this document. All attachments are inclusive to this permit.

Recommended by DOH Reviev _____

Title: District Four Permits

Applicant Signature: _____

Title: Director, Student Support Servic

BOND REQUIREMENT:

BOND _____/DATE_____

Attached On File

INSPECTION: Owner/Consultant

Full Time Part Time

Periodic Reimbursable No Cost

APPROVED: _____

Title: Acting Maintenance Engineer

West Virginia Division of Highways

AUTHORIZATION _____

PERMIT 04-2020-0849

SUPPLEMENTARY CONDITIONS

1. The person, firm or corporation to whom a permit is issued agrees to hold the State of West Virginia and DIVISION harmless on account of any damages to persons or property which may arise during the process of the work authorized by this permit or by reason thereof.
2. Applications for permission to perform work within highway rights of way shall be made on DIVISION'S standard permit form and shall be signed by the authorized representative of the person, firm or corporation applying.
3. The APPLICANT shall give detailed information concerning the work to be performed and the application must include a sketch sufficient to show the nature of the work performed.
4. APPLICANT, his agents, successor, heirs or assigns, contractors or any other person, firm or corporation working under APPLICANT'S real or apparent authority, shall perform the work in a manner satisfactory to DIVISION. Damage to the road resulting at any time from work authorized under this permit shall be repaired by APPLICANT. Unsatisfactory repairs may be a corrected by DIVISION or its authorized agent and the cost thereof paid by APPLICANT.
5. DIVISION assumes no liability for damage to the proposed work by reason of construction or maintenance work on the road.
6. This permit is granted subject to removal of the authorized installation by APPLICANT at no cost to DIVISION when required for improvement of the road, and subject to all regulations now or hereafter adopted by DIVISION.
7. Utility installation shall be in accordance with the current manual, "Accommodation of Utilities on Highway Right of Way".
8. Driveways shall be in accordance with the current manual, "Rules and Regulations for Constructing Driveways on State Highway Rights-of-Way."
9. DIVISION reserves the right to cancel this permit at any time, should APPLICANT fail to comply with the terms and conditions under which it is granted.
10. This permit is granted only insofar as the DIVISION has a right to do so.


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TEMPORARY TRAFFIC CONTROL GENERAL NOTES

- TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH SECTION 636 OF THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION , DIVISION OF HIGHWAYS, STANDARD SPECIFICATIONS ROADS AND BRIDGES, ADOPTED 2017 AND THE MANUAL, "MANUAL ON TEMPORARY TRAFFIC CONTROL FOR STREETS AND HIGHWAYS" 2006.
- REFLECTIVE SHEETING ON TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE OF NEW CONDITION AT THE BEGINNING OF THE PROJECT LIFE. NIGHT VISIBILITY AND LEGIBILITY SHALL BE MAINTAINED AT ALL TIMES.
- THE CONTRACTOR SHALL MAINTAIN WORKING STORM DRAINAGE SYSTEMS THROUGHOUT THE WORK AREAS AT ALL TIMES DURING CONSTRUCTION.
- EXISTING SIGNS AND DELINEATORS: ANY SUCH EXISTING FACILITIES RELOCATED, REMOVED, OR DAMAGED BY THE CONTRACTOR SHALL BE REPLACED TO ITS ORIGINAL CONDITION BY THE CONTRACTOR AT HIS EXPENSE, UNLESS REPLACED BY FINAL SIGNS.
- AT LEAST 2 WEEKS BEFORE CONTRACTOR PROCEEDS WITH ANY WORK, THEY SHALL COORDINATE WITH WVDOH DISTRICT FOUR PERSONNEL IN ORDER TO NOTIFY TELEVISION, RADIO, NEWSPAPERS, HOSPITALS, FIRE DEPARTMENTS, SCHOOLS, POLICE, EMERGENCY VEHICLES, ETC., AS APPROPRIATE.
- WHEN WORK IS BEING PERFORMED AT NIGHT WITH A FLAGGER, THE FLAGGER STATIONS SHALL BE ADEQUATELY ILLUMINATED.
- TYPE 'B' LIGHTS SHALL BE USED ON ALL LEAD-IN SIGNING.
- SPECIAL PROVISIONS FOR MOVING FLAGGERS: ALL FLAGGERS SHALL BE FURNISHED BY THE CONTRACTOR AND ALL FLAGGERS SHALL BE HIS/HER RESPONSIBILITY. WHERE MOVING FLAGGER IS CALLED FOR, TWO FLAGGERS SHALL BE PROVIDED AT EACH END OF THE AREAS WHERE TRAFFIC IS BEING STOPPED. ONE FLAGGER IS TO BE POSITIONED IN ACCORDANCE WITH THE MANUAL, WHILE THE OTHER FLAGGER IS TO CONTINUALLY MOVE WITH STOPPING TRAFFIC. TWO-WAY RADIOS SHALL BE PROVIDED TO THE FLAGGERS WHEN THEY ARE OUT OF SIGHT OF EACH OTHER.
- ALL THE TEMPORARY BARRIERS SHALL BE SUPPLIED BY THE CONTRACTOR IN GOOD CONDITION AND SHALL BECOME HIS PROPERTY AT THE END OF THE PROJECT.
- ALL THE TEMPORARY BARRIERS SHALL BE SUPPLIED BY THE CONTRACTOR AND HAVE 8"X12" TYPE B-1 DELINEATORS (WHITE OR YELLOW AS APPROPRIATE) FACING TRAFFIC AT 40 FT CENTERS.
- ANY TEMPORARY IMPACT ATTENUATORS SHALL BE INSTALLED PER THE MANUFACTURERS RECOMMENDATIONS AND WVDOH SPECIFICATIONS.
- TEMPORARY TAPE: ALL TEMPORARY TAPE SHALL BE MECHANICALLY APPLIED. SOLID LINES SHALL HAVE A 2 INCH GAP EVERY 50 FEET.
- DURING EACH STEP OF CONSTRUCTION, THE CONTRACTORS SHALL COVER ALL SIGNS WHICH ARE NOT APPROPRIATE TO THE CONTRACTORS TRAFFIC RESTRICTIONS. WHEN COVERING EXISTING SIGNS THE CONTRACTOR HAS THE OPTION OF USING:
  - THIN WOOD OVERLAY, E.G. PLYWOOD.
  - TAKING SIGNS DOWN AND REINSTALLING WHEN APPROPRIATE.
  - ANY DAMAGES CAUSED BY ABOVE NAMED SHALL BE REPAIRED/REPLACED TO ORIGINAL CONDITIONS AT THE CONTRACTORS EXPENSE. ALL ABOVE OPERATIONS SHALL HAVE 100% SIGN COVERAGE.
- TRAFFIC DIRECTOR: IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO HIRE A LAW ENFORCEMENT OFFICER AND A CAR WITH BLUE FLASHING LIGHTS TO BE PRESENT DURING THE CHANGING OF PHASES.

SEQUENCE OF CONSTRUCTION

PHASE I:

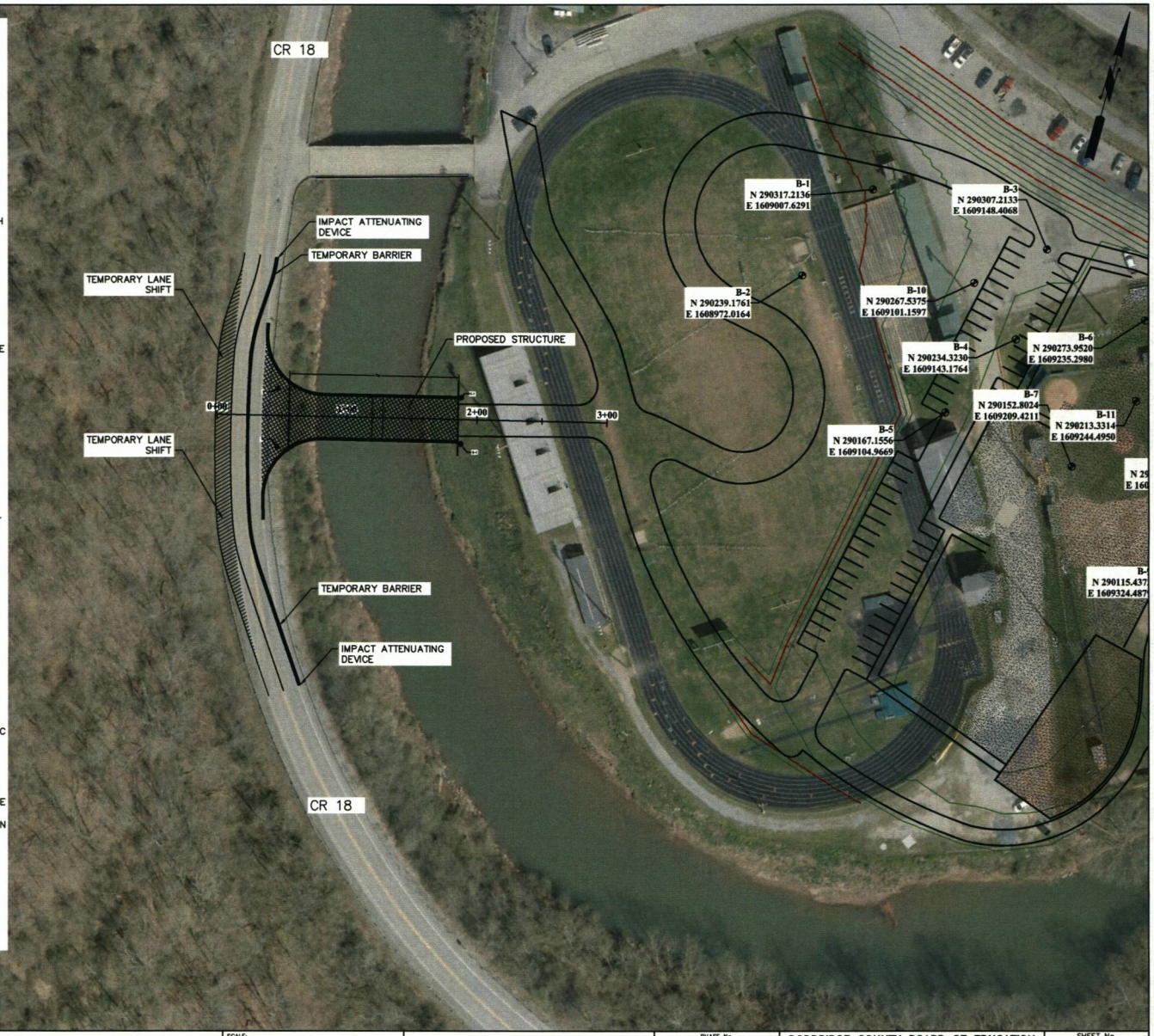
1. USE CASE A4 AS NEEDED TO CONSTRUCT THE TEMPORARY LANE SHIFT.
2. TWO LANE TRAFFIC WILL UTILIZE THE EXISTING ROADWAY AND BRIDGE TO MAINTAIN TRAFFIC THROUGHOUT PHASE I.
3. STEP 1-2 MUST BE COMPLETE BEFORE PHASE II BEGINS.

PHASE II:

1. PLACE TEMPORARY TRAFFIC CONTROL DEVICES, BARRICADES AND SIGNS IN ACCORDANCE WITH CASE A12.
2. TWO LANE TRAFFIC WILL UTILIZE THE TEMPORARY LANE SHIFT AND EXISTING BRIDGE TO MAINTAIN TRAFFIC THROUGHOUT PHASE II.
3. CONSTRUCT THE PROPOSED STRUCTURE.

PHASE III:

1. RESET ALL EXISTING SIGNS.
2. REMOVE TRAFFIC FROM THE TEMPORARY LANE SHIFT AND RESUME TRAFFIC ONTO CR 18.
3. USE CASE A4 AS NEEDED TO REMOVE THE EXISTING TEMPORARY LANE SHIFT.
4. USE CASE A4 AS NEEDED TO REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES.



NO.	BY	DATE	DESCRIPTION

40' 0 40' 80'

SCALE:
DRAWN: DATE:
CHECKED: DATE:
APPROVED: DATE:
SURVEY DATE:
SURVEY BY:
FIELD BOOK No.:

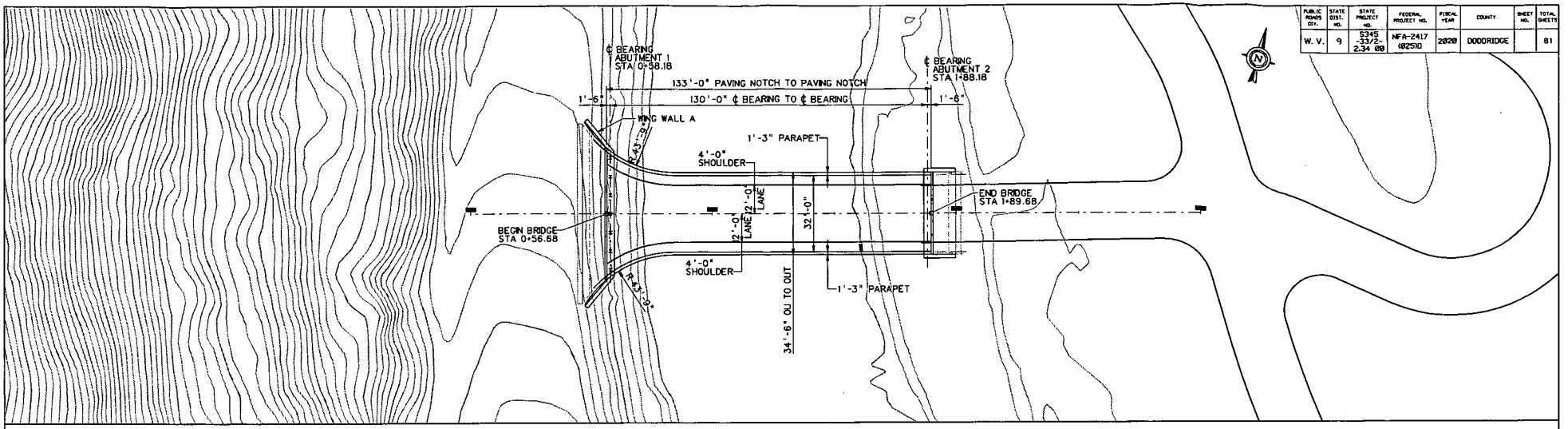
THRASHER
600 WHITE OAKS BLVD. P.O. BOX 940
BRIDGEPORT WV 26330
www.thrasherenq.com
PHONE (304) 624-4108 FAX (304) 624-7831

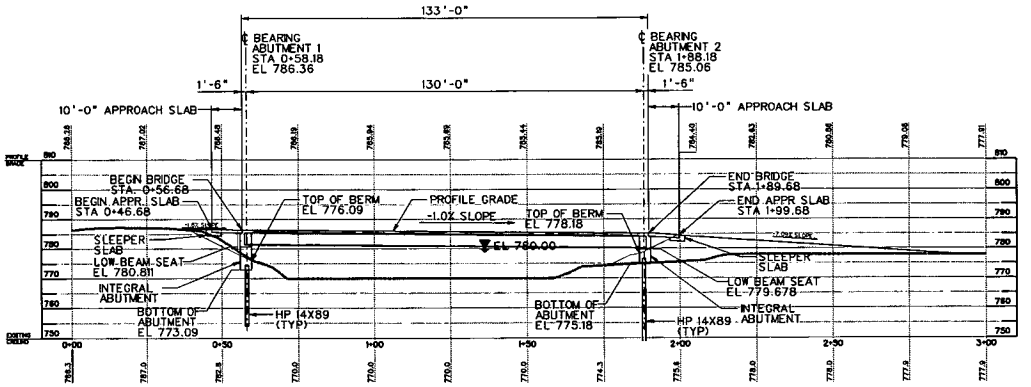
PHASE No.
CONTRACT No.
PROJECT No. 060-10006

DODDRIDGE COUNTY BOARD OF EDUCATION
DODDRIDGE COUNTY, WEST VIRGINIA
CONTRACT #1
SITE EARTHWORK AND GRADING

SHEET No.

CAD FILE: L:\060-10006-PRE-K DAYCARE FACILITY-DODDRIDGE CO BOE-\Drawing\Bridge\Reference Files\Autocad Files\TCP Plan.dwg PLOT DATE/TIME: 8/6/2020 7:52 AM LAYOUT: TCP-1 USER: jason.mayes





PUBLIC ROADS CLY.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
W. V.	9	5345 -33/2- 2,34 00	NFA-2417 (025)D	2020	DODDRIDGE		81

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

DODDRIDGE COUNTY
BOARD OF EDUCATION

DODDRIDGE COUNTY PRE-K ACCESS BRIDGE

GENERAL PLAN AND ELEVATION

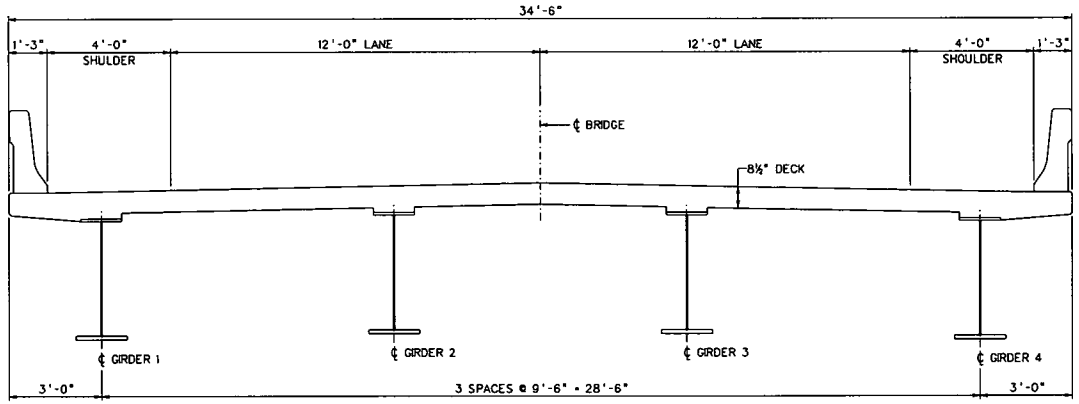
SHEET B- OF B-53

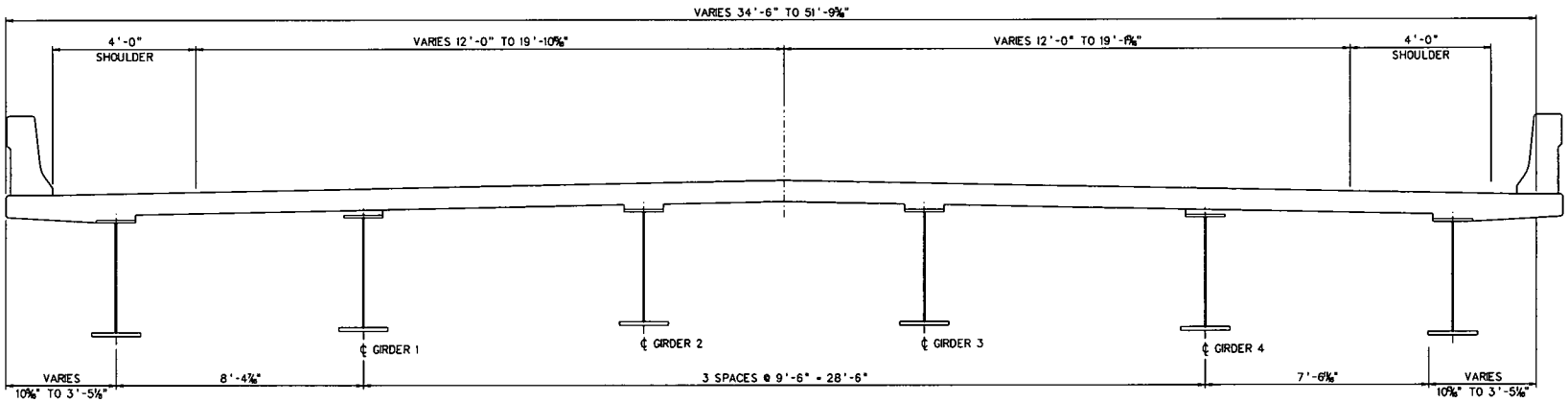
BRIDGE NO. 1797. 2

DESIGNED	RLC	08/20
DRAWN	BDN	08/20
CHECKED		
CHECKED		

THRASHER
300 ASSOCIATION DRIVE
CHARLESTON, WV 25311
www.thethrashergroup.com
PHONE (304)343-7601
FAX (304)343-7604

PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
W. V.	9	S345 -33/2- 2.34 00	NFA-2417 (025)D	2020	DODDRIDGE		81





REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

DODDRIDGE COUNTY BOARD OF EDUCATION

DODDRIDGE COUNTY PRE-K ACCESS BRIDGE

TYPICAL SECTION

SHEET B- OF B-53

BRIDGE NO. 1797.2

		DESIGNED	DATE
THRASHER		RLC	08/20
300 ASSOCIATION DRIVE CHARLESTON, WV 25311 www.thethrashergroup.com		DRAWN SCN	08/20
PHONE (304)343-7601	FAX (304)343-7604	CHECKED	
		CHECKED	

PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
W. V.	9	S345 -33/2- 2.34 00	NFA-2417 (025)00	2020	DODDRIDGE	46	81

GOVERNING SPECIFICATIONS

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, STANDARD SPECIFICATIONS ROADS AND BRIDGES, ADOPTED 2017 INCLUDING SUPPLEMENTAL SPECIFICATION ISSUED JANUARY 1, 2020, THE CONTRACT DOCUMENTS AND THE CONTRACT PLANS ARE THE GOVERNING PROVISIONS APPLICABLE TO THIS PROJECT.

DESIGN

THE DESIGN IS IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 8TH EDITION, 2017.

THE BRIDGE IS DESIGNED FOR AASHTO HL-93 LOADING. THE DESIGN PROVIDES FOR AN ADDITIONAL FUTURE WEARING SURFACE OF 25 POUNDS PER SQUARE FOOT OF ROADWAY. FUTURE WEARING SURFACE IS NOT INCLUDED IN THIS CONTRACT. THE DESIGN PROVIDES FOR PERMANENT METAL DECK FORMS OF 15 POUNDS PER SQUARE FOOT (WEIGHT OF FORMS PLUS WEIGHT OF CONCRETE IN FLUTES OF FORMS).

THE BRIDGE DECK IS DESIGNED IN ACCORDANCE WITH THE TRADITIONAL METHOD.

FATIGUE WAS CHECKED FOR AN AVERAGE ADTT OF 5,000 OVER THE 75 YEAR DESIGN LIFE OF THE STRUCTURE.

THE STRUCTURE IS DESIGNED TO SEISMIC PERFORMANCE ZONE 1.

THE SUPERSTRUCTURE HAS BEEN DESIGNED AS A COMPOSITE SECTION. ½" OF CONCRETE DECK SLAB THICKNESS HAS BEEN REMOVED FROM SECTION PROPERTIES FOR THE DESIGN TO PROVIDE FOR GRINDING, GROOVING AND SACRIFICIAL SURFACE.

DESIGN STRENGTHS

CONCRETE:

CLASS B	F'C - 3,000 PSI	N - 9
CLASS H	F'C - 4,000 PSI	N - 8
CLASS K	F'C - 4,000 PSI	N - 8

STRUCTURAL STEEL:

AASHTO M270	GRADE 50W	FY - 50,000 PSI
AASHTO M270	GRADE 50W-T2	FY - 50,000 PSI

REINFORCING STEEL:

AASHTO M31	GRADE 60	FY - 60,000 PSI

CONCRETE

CLASS H CONCRETE, ITEM 601009-001, DECK AND THE PORTION OF INTEGRAL ABUTMENTS ABOVE THE ELEVATION OF BRIDGE SEAT.

CLASS K CONCRETE, ITEM 601003-001, BRIDGE PARAPETS AND APPROACH PARAPETS.

CLASS B CONCRETE, ITEM 601002-001, PORTION OF INTEGRAL ABUTMENTS BELOW THE ELEVATION OF THE BRIDGE SEAT.

WATER-REDUCING RETARDING ADMIXTURE IN ACCORDANCE WITH SECTION 707.2 OF THE STANDARD SPECIFICATIONS WILL BE USED IN ALL SUPERSTRUCTURE CONCRETE. COST OF ADMIXTURE TO BE INCLUDED IN THE UNIT PRICE BID FOR CLASS H CONCRETE. RETARDER WILL NOT BE REQUIRED FOR TEMPERATURES BELOW 50°F. THE CONTRACTOR'S ATTENTION IS CALLED TO THE TEST REQUIREMENTS FOR RETARDER ADMIXTURE. THE CONCRETE SHALL BE PLACED IN THE SEQUENCE SHOWN IN THE PLANS.

ALL CONCRETE SHALL BE FINISHED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 601 OF THE SPECIFICATIONS. NO CONSTRUCTION EQUIPMENT WITH AN AXLE LOAD GREATER THAN 20,000 LBS (20 KIPS) SHALL BE PERMITTED ON THE DECK AT ANY TIME.

NO CONSTRUCTION EQUIPMENT OR LOADS THAT ARE NOT REQUIRED TO COMPLETE THE DECK, PARAPETS, RAILING, OR OTHER APPURTENANCES SHALL BE ALLOWED ON THE BRIDGE DECK.

CHAMFER ALL EXPOSED EDGES OF SUBSTRUCTURE CONCRETE 1"X 1" AND SUPERSTRUCTURE CONCRETE ¾"X ¾" UNLESS OTHERWISE NOTED.

STRUCTURAL STEEL

STRUCTURAL STEEL FOR BEAMS, DIAPHRAGMS, AND CONNECTION PLATES SHALL MEET THE REQUIREMENTS OF AASHTO M270 GRADE 50W OR 50W-T2. THE STEEL FOR BEARING STIFFENERS SHALL BE AASHTO M270 GRADE 50W.

ALL COMPLETE PENETRATION JOINT WELDS AND BUTT WELDS SHALL BE GROUND FLUSH TO THE BASE METAL.

PROVIDE STEEL MEETING THE CHARPY V-NOTCH REQUIREMENTS FOR AASHTO ZONE 2 FOR ALL STRUCTURAL STEEL USED IN GIRDER FLANGES AND WEBS.

DETAIL DIAPHRAGM CONNECTION TO THE BEAM UNDER STEEL DEAD LOAD FIT CONDITIONS (SDLF). BEAMS SHALL BE PLUMB UNDER THE BRIDGE STEEL DEAD LOAD.

IDENTIFICATION MARKING OF STEEL MEMBERS

ALL STEEL MILL AND FABRICATOR IDENTIFICATION MARKINGS FOR STEEL PLATES, SHAPES, OR FABRICATED MEMBERS SHALL BE BY METAL TAGS, SOAPSTONE, OR SOME OTHER READILY REMOVABLE MATERIAL; OR SHALL BE MARKED IN AN AREA OF THE COMPLETED MEMBER WHICH WILL BE ENCASED OR COVERED WITH CONCRETE. MARKING METHODS AND LOCATIONS ARE SUBJECT TO APPROVAL OF THE ENGINEER. DO NOT USE PAINT OR WAX-BASED CRAYONS FOR MARKING.

WELDING

ALL WELDING, FABRICATION AND NON-DESTRUCTIVE TESTING SHALL CONFORM TO THE ANSI/AASHTO/AWS BRIDGE WELDING CODE, (D1.5M/D1.5: 2015 INTERMS), EXCEPT AS MODIFIED BY THE STANDARD SPECIFICATIONS.

ALL WELDING SHALL BE PERFORMED BY A QUALIFIED BRIDGE WELDER WHO IS APPROVED BY THE WVDOH.

WELDING (CONT.)

GRIND ALL CJP WELDS FLUSH ON WEB AND FLANGES.
DO NOT USE THE ELECTROSLAG OR ELECTROGAS WELDING PROCESS.

DO NOT FIELD WELD ON ANY PART OF THE STRUCTURE WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER, UNLESS SHOWN ON THE CONTRACT PLANS.

DO NOT WELD REINFORCEMENT BARS, DURING FABRICATION OR CONSTRUCTION.

REINFORCING STEEL BARS

ALL REINFORCING STEEL BARS SHALL BE IN ACCORDANCE WITH AASHTO M31, GRADE 60, UNLESS OTHERWISE NOTED ON THE PLANS.

ALL BARS IN THE DECK, PARAPET, APPROACH SLABS AND INTEGRAL ABUTMENTS ABOVE THE BEAM SEAT SHALL BE EPOXY COATED, ITEM 602002-001, EPOXY COATED REINFORCING STEEL BAR.

ALL BARS IN THE INTEGRAL ABUTMENTS BELOW THE BEAM SEAT SHALL BE UNCOATED, ITEM 602001-001, REINFORCING STEEL BAR.

ALL REINFORCEMENT SHALL BE LAPPED A MINIMUM OF 40 BAR DIAMETERS UNLESS SHOWN OTHERWISE ON THE PLANS. EMBEDMENT DIMENSIONS FOR REINFORCING ARE CLEAR DIMENSIONS UNLESS NOTED. BAR SPACING IS GIVEN TO THE CENTERLINE OF THE BAR.

BOLTS

ALL FASTENERS SHALL BE BLACK (UNCOATED) TYPE 3 (WEATHERING STEEL) HIGH STRENGTH 7/8" DIAMETER BOLTS (ASTM F3125 GRADE A325), UNLESS OTHERWISE NOTED ON THE PLANS. HIGH STRENGTH FASTENERS SHALL CONFORM TO SECTION 709.24. THE HIGH STRENGTH FASTENERS USED IN REGIONS OF THE STRUCTURE THAT REQUIRE PAINTING SHALL BE TYPE 1 OR 3 AND SHALL BE MECHANICALLY GALVANIZED. THE THREADED ENDS OF THE BOLTS ARE TO BE PLACED ON THE INSIDE WHERE PRACTICAL TO PROTECT SAME FROM THE WEATHER.

BEFORE ASSEMBLING THE HIGH STRENGTH BOLTED CONNECTIONS, REMOVE ALL LOOSE AND NON-ADHERENT RUST THAT MAY HAVE FORMED ON THE CONNECTION AREAS BY HAND CLEANING OR POWER WIRE BRUSHING.

BOLTED CONNECTIONS ARE DESIGNED AS SLIP CRITICAL WITH ALL FAYING SURFACES HAVING A CLASS B SLIP COEFFICIENT.

JOINT FILLER

PREFORMED JOINT FILLER SHALL BE SPONGE RUBBER, TYPE 1, CONFORMING TO SECTION 708.1.1. THERE IS NO SEPARATE PAYMENT FOR PREFORMED JOINT FILLER AND ALL COSTS SHALL BE INCLUDED IN THE BID PRICE FOR THE VARIOUS ITEMS THAT THE MATERIAL IS USED IN.

PILING NOTES

ALL STEEL PILES SHALL BE HP12X74 STEEL BEARING PILES AND SHALL MEET AASHTO M270, GRADE 50 REQUIREMENTS.

DRIVE PILES TO THE ESTIMATED PILE TIP ELEVATIONS AS SHOWN IN THE PLANS.

THE TARGET CAPACITIES OF 511.2 KIPS AND 495.7 KIPS PER PILES, RESPECTIVELY AT ABUTMENT 1 AND 2 ARE DRIVEN TO REFUSAL IN BEDROCK.

THE PILE DRIVING SHALL NOT EXCEED 90 PERCENT OF THE YIELD STRESS (45 KSI).

USE A MAXIMUM FACTORED AXIAL RESISTANCE FOR THE HP12X74 PILES OF 545 KIPS IN DESIGN BASED ON THE CROSS- SECTIONAL AREA OF THE PILES.

HARDENED STEEL PILE POINTS SHALL BE USED FOR ALL DRIVEN STEEL H- PILES IN ACCORDANCE WITH SECTION 709.50.

ALL PREDRILLED HOLES SHALL HAVE MINIMUM DIAMETER OF 24 INCHES AND SHALL BE BACKFILLED WITH CLEAN, DRY SAND PRIOR TO PLACEMENT AND DRIVING.

DRIVE PILES BEFORE CONSTRUCTION OF MSE WALLS. INSTALL PILE SLEEVE FROM THE TOP OF LEVELING PAD ELEVATION TO BOTTOM OF PILE CAP ELEVATION, FILL ANNULAR SPACE BETWEEN PILE SLEEVE AND H-PILE WITH CLEAN AND DRY SAND.

USE A PILE DRIVING ANALYZER (PDA) ON AT LEAST TWO (2) PILES PER SITE CONDITION (MINIMUM TWO IN EACH STAGE AT EACH SUBSTRUCTURE, A TOTAL OF TWELVE FOR THE PROJECT). USE A PDA TO CONFIRM THAT THE TESTED PILES ATTAIN THE REQUIRED RESISTANCE WHILE MAINTAINING ALLOWABLE PILE DRIVING STRESSES.

DO NOT DRIVE BEARING PILES UNTIL THE REPRESENTATIVE TEST PILES ARE COMPLETED AND VERIFIED.

IN THE AREA OF MEDIUM HARD AND HARDER ROCK, REFUSAL OF 10 BPI IS REQUIRED. IN THE AREA OF SOFT ROCK, REFUSAL OF 20 BPI IS REQUIRED, ALSO RESTRIKING OF THE PILES SHALL BE REQUIRED AFTER A MINIMUM OF 3 DAYS.

FOLLOW THE PILE DYNAMIC TESTING SPECIAL PROVISION 616.8 OF THE WVDOH STANDARD SPECIFICATIONS.

PREDRILLING AND RESTRIKING HOLES ARE IDENTIFIED ON THE PLANS.

BLOWS PER INCH FOR DRIVEN H-PILES

SUB-STRUCTURE	HAMMER	ENERGY RATING (FT-LBS)	FUEL SETTING	MAX STROKE HEIGHT (FT)	BPI @ TARGET CAPACITY	REFUSAL STRATUM	REQUIRED BPI REFUSAL CRITERIA
ABUTMENT 1	APE D 19-42	47, 126	MAX-1(2ND HIGHEST)	8.9	8	SANDSTONE *	10
	APE D 19-42	47, 126	MAX-(1ST HIGHEST)	9.4	7	SANDSTONE	10
	APE D 19-42	47, 126	MAX-2(3RD HIGHEST)	7.5	14	SHALE/SILTSTONE	20
ABUTMENT 2	APE D 19-42	47, 126	MAX-(1ST HIGHEST)	9.3	9	SANDSTONE	10
	APE D 19-42	47, 126	MAX-2(3RD HIGHEST)	7.4	13	SHALE/SILTSTONE	20

* PILE DRIVEN TO REFUSAL AT SANDSTONE STRATUM CONSIDERING A PREDRILLING CONDITION

BEARINGS

ELASTOMERIC BEARING AND COMPONENT PARTS SHALL MEET THE REQUIREMENTS OF THE LRFD BRIDGE DESIGN SPECIFICATIONS.

EXERCISE CAUTION WHILE MAKING FIELD OR SHOP WELDS WHILE AN ELASTOMERIC BEARING PAD IS IN CONTACT WITH THE STEEL. IN NO CASE SHALL THE ELASTOMER OR ELASTOMER BAND BE EXPOSED TO INSTANTANEOUS TEMPERATURES GREATER THAN 400 DEGREES FAHRENHEIT. ANY DAMAGE TO THE ELASTOMERIC BEARING DUE TO WELDING WILL BE CAUSE FOR REJECTION. THE TEMPERATURE SHALL BE MONITORED BY HEAT CRAYONS FURNISHED BY THE CONTRACTOR.

FINISH THE BEARING SEATS TO TRUE ELEVATION AND LEVEL PLANE. APPLY EPOXY/GRIT MATERIAL TO THE TOP SURFACE OF THE ABUTMENT AND PIER BEARING SEATS TO BE IN CONTACT WITH THE ELASTOMERIC PADS, PLUS AN ADDITIONAL 0.5 INCH IN ALL DIRECTIONS.

HANDLING AND STORING STEEL MEMBERS

STEEL MEMBERS MUST NOT BE GOUGED, SCRATCHED, DENTED OR ALLOWED TO RUB AGAINST OTHER MEMBERS WHICH WOULD RESULT IN DAMAGE TO THE BLAST CLEANED PROFILE OF THE STEEL. MEMBERS SHALL BE HANDLED USING SOFTENERS AND SLINGS INSTEAD OF CHOKERS AND CHAINS.

STORE MEMBERS IN THE FABRICATION SHOP AND AT THE PROJECT SITE IN SUCH A MANNER AS TO BE KEPT FREE AND CLEAN OF ALL FOREIGN SUBSTANCES SUCH AS GREASE, OIL, MORTAR AND CONCRETE, SPLATTER, CHALK AND CRAYON MARKS, PAINT AND DIRT. ALL STORAGE MUST BE ABOVE GROUND AND SLOPED TO ALLOW FREE DRAINAGE OF MELTED SNOW, RAINWATER AND DEW.

IF STORED FOR PERIODS LONGER THAN 3 MONTHS, THE MEMBERS MUST BE PLACED ON METAL SUPPORTS. FOR PERIODS OF STORAGE UP TO 3 MONTHS, MEMBERS MAY BE PLACED ON CLEAN, UNTREATED, WOOD TIMBERS.

STORE PLATE GIRDERS AND ROLLED BEAMS WITH THE WEB IN THE UPRIGHT POSITION. THE MEMBERS MAY BE STACKED, PROVIDED METAL OR WOOD SUPPORTS, AS NOTED ABOVE, SEPERATE INDIVIDUAL MEMBERS. UNDER NO CIRCUMSTANCES SHALL MEMBERS BE NESTED TOGETHER OR BUNDLED.

DO NOT ALLOW TREATED LUMBER OR TREATED TIMBER TO CONTACT STEEL MEMBERS. CONTACT WITH CLEAN, UNTREATED LUMBER OR TIMBER WILL NOT DAMAGE THE STEEL MEMBER.

CONCRETE PROTECTIVE COATING

EXPOSED SURFACES OF CONCRETE SUBSTRUCTURE UNITS AND ALL SURFACES OF THE BARRIERS ON THE BRIDGE DECK AND APPROACH, EXCLUDING THE TOP OF THE ROADWAY SURFACE, SHALL BE COATED WITH A CONCRETE PROTECTIVE COATING IN ACCORDANCE WITH THE STANDARD SPECIFICATION. THE COLOR OF THE CONCRETE PROTECTIVE COATING TO BE USED SHALL BE FLAT YELLOW, AMS-STD-595A, FEDERAL STANDARD COLOR 37886. SEE THE SPECIAL PROVISIONS 601 AND 711 FOR CONCRETE PROTECTIVE COATING SPECIFICATIONS. THE COATING SHALL BE APPLIED TWO (2) FEET BELOW THE FINISHED GROUND LINE.

ALL SURFACES TO RECEIVE CONCRETE PROTECTIVE COATING SHALL BE THOROUGHLY CLEANED IN ACCORDANCE WITH SECTION 601.13 OF THE 2019 SUPPLEMENTAL SPECIFICATIONS AND SECTION 685 OF THE STANDARD SPECIFICATIONS. COST ASSOCIATED WITH CLEANING IS INCLUDED IN ITEM 685001-001 BRIDGE CLEANING, CONCRETE PROTECTIVE COATING, LUMP SUM. MATERIAL GENERATED BY SURFACE PREPARATION OPERATIONS SHALL BE CONTAINED AND DISPOSED IN ACCORDANCE WITH SECTION 601.13 OF THE 2019 SUPPLEMENT SPECIFICATIONS. COST ASSOCIATED WITH CONTAINMENT SHALL BE INCLUDED IN ITEM 688003-001 CONTAINMENT AND DISPOSAL OF SPENT MATERIAL, CONCRETE PROTECTIVE COATING, LUMP SUM.

ALL SURFACES TO RECEIVE A PROTECTIVE COATING SHALL BE THOROUGHLY CLEANED. COST ASSOCIATED WITH CLEANING CONTAINMENT IS INCLUDED IN ITEM 685001-001 BRIDGE CLEANING, LUMP SUM. COST ASSOCIATED WITH CONTAINMENT SHALL BE INCLUDED IN ITEM 688003-001 CONTAINMENT AND DISPOSAL OF SPENT MATERIAL, LUMP SUM.

INCLUDE THE COST OF THE COATING, PROTECTION, CLEANING AND RECOATING OF THE DESIGNATED AREAS IN ITEM 601019-001 CONCRETE PROTECTIVE COATING.

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

DODDRIDGE COUNTY BOARD OF EDUCATION

DODDRIDGE COUNTY PRE-K ACCESS BRIDGE

GENERAL NOTES SHEET 1 OF 2

SHEET B-05 OF B-53

BRIDGE NO. 1797.2

THRASHER
300 ASSOCIATION DRIVE
CHARLESTON, WV 25311
www.thethrashergroup.com
PHONE (304)343-7601
FAX (304)343-7604

DESIGNED	RLC	08/20
DRAWN	SCH	08/20
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PUBLIC ROADS CITY.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
W. V.	9	5345 -33/2- 2.34 88	NFA-2417 (025)0	2020	DODDRIDGE	47	81

BLAST CLEANING AND PAINTING

UPON COMPLETION OF ALL FABRICATION OPERATIONS IN THE SHOP, AND BEFORE SHIPMENT TO THE PROJECT SITE, ALL WEATHERING STEEL BRIDGE COMPONENTS SHALL BE BLAST CLEANED TO A NEAR WHITE SURFACE CONDITION ACCORDING TO SSPC-SP 10. PRIOR TO THE START OF ANY BLAST CLEANING, ALL OIL, GREASE, CUTTING FLUIDS, OR OTHER FOREIGN MATTER SHALL BE REMOVED FROM THE SURFACES OF THE STEEL BY SOLVENT CLEANING ACCORDING TO SSPC-SP 1.

FOR INTEGRAL ABUTMENT STRUCTURES, PAINT THE PERMANENT END DIAPHRAGM, EXPOSED STEEL PORTIONS OF THE BEARINGS AND ENDS OF THE BEAMS IN THE CONCRETE ABUTMENT PLUS ONE ADDITIONAL FOOT IN LENGTH. THE COLOR SHALL CONFORM TO SAE INTERNATIONAL AMS-STD-595A, COLOR NO. 20062, BROWN. ALL OTHER STRUCTURAL STEEL COMPONENTS ENCASED IN CONCRETE SHALL HAVE ONE COAT OF PRIMER ONLY.

THE COVERS OF THE EXPANSION JOINTS AT OR ABOVE THE DECK SHALL BE PAINTED. THE COLOR SHALL CONFROM TO SAE INTERNATIONAL AMS-STD-595A, COLOR NO. 37886, FLAT YELLOW.

PROTECTION OF CONCRETE

TAKE APPROPRIATE MEASURES TO PROTECT THE CONCRETE SUBSTRUCTURE FROM RUST STAINING DURING CONSTRUCTION AND CURING OF THE SUPERSTRUCTURE CONCRETE. DEFLECT WATER RUNOFF FROM CURING OPERATIONS AWAY FROM THE STEEL GIRDERS AND DO NOT ALLOW WATER TO DRAIN ONTO THE SUBSTRUCTURE CONCRETE AFTER COMING INTO CONTACT WITH THE WEATHERING STEEL.

UPON COMPLETION OF ALL SUPERSTRUCTURE CONCRETE CURING OPERATIONS, REMOVE ALL RUST STAINS FROM SUBSTRUCTURE UNITS WITH PROPRIETARY CHEMICAL STAIN REMOVERS OR MILD ACID ETCHING. USE ABRASIVE BLAST CLEANING TO SUPPLEMENT THE OTHER CLEANING METHODS IF THE STAINED AREAS ARE SEVERE OR EXTENSIVE. ALL CLEANING METHODS SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.

DECK FORMS

STAY-IN-PLACE DECK FORMS SHALL BE USED ON THIS PROJECT.
APPROXIMATE AREA - 5,108 SQ. FT. - EDGE OF BEAM FLANGE TO EDGE OF BEAM FLANGE IN INTERIOR BAYS, EXCLUDING DECK OVERHANG.

USE REMOVABLE FORMS TO CONSTRUCT DECK OVERHANGS AND DECK BETWEEN BEAMS 3-4 AND 9-10.

DECK SLAB OVERHANG FORM

DECK SLAB OVERHANG FORMS SHALL BE SUPPORTED FROM THE BOTTOM FLANGE OF FASCIA GIRDERS. THE CONTRACTOR'S FORMING PLAN, FOR THE DECK OVERHANG, SHALL BE SUBMITTED TO THE DIVISION FOR APPROVAL BY THE ENGINEER PRIOR TO ERECTING THE FORMWORK. DESIGN OF FORMWORK SHALL BE BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WEST VIRGINIA, WHO SHALL ALSO VERIFY THAT THE DESIGN IS UTILIZED.

FORM SYSTEMS THAT WILL CAUSE OVERSTRESS OR DEFORMATION TO PERMANENT BRIDGE MEMBERS SHALL NOT BE PERMITTED. THE CONTRACTOR SHALL SUBMIT CALCULATIONS VERFYING THAT THIS REQUIREMENT IS SATISFIED.

SHOP DRAWINGS

ALL SHOP DRAWINGS WILL BE SUBJECT TO THE REQUIREMENTS OF SECTION 105.2. SUBMIT SHOP DRAWINGS TO:

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300 ASSOCIATION DRIVE
CHARLESTON, WV 25311
MTYLER@THETHRASHERGROUP.COM

THE DESIGN CALCULATIONS AND PLANS FOR ANY PROPOSED FALSEWORK, SHORING AND OTHER TEMPORARY SUPPORTS OR BRACING REQUIRED TO CONSTRUCT THE BRIDGE SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WEST VIRGINIA, (WHO SHALL ALSO VERIFY THAT THE DESIGN IS UTILIZED) BEFORE BEING SUBMITTED TO THE ENGINEER FOR REVIEW.

SUBSURFACE INVESTIGATION

IN SEPTEMBER OF 2019, WVDOH MATERIALS DIVISION GEOTECHNICAL GROUP DRILLED CORE BORINGS. ADDITIONAL BORINGS WERE PERFORMED BY TERRACON NEAR THE BRIDGE STRUCTURE. THE GEOTECHNICAL AND FOUNDATION DESIGNS ARE BASED ON ALL BORINGS AND THE SUBSURFACE INVESTIGATION REPORT WAS PREPARED BY TERRACON. THIS REPORT INCLUDES THE ENGINEERING LOGS AS COMPILED BY FIELD DATA.

GEOTECHNICAL INFORMATION

GEOTECHNICAL INFORMATION IS PROVIDED WITH THESE PLANS AND SHALL BE CONSIDERED AS A PART OF THE CONTRACT DOCUMENTS. THE GEOTECHNICAL REPORT MAY CONTAIN INFORMATION THAT COULD IMPACT THE CONSTRUCTION SCHEDULE DEPENDING UPON THE CONTRACTOR'S SEQUENCE OF CONSTRUCTION.

THE INFORMATION PRESENTED IS BASED IN PART ON SMALL DIAMETER TEST BORINGS AND SHOULD BE CONSIDERED AS APPROXIMATE. SHOULD DIFFERING CONDITIONS BE ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE ENGINEER AT THE EARLIEST OPPPORTUNITY FOR RE-EVALUATION PRIOR TO PROCEEDING WITH WORK ON THAT PORTION OF THE PROJECT.

UTILITIES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF EXISTING UTILITIES IN THE AREA OF WORK. CONTRACTOR WILL ASSUME FULL RESPONSIBILITY TO PROTECT THESE UTILITIES AND ASSURE THAT THESE UTILITIES ARE NOT DAMAGED AND NOT DISTURBED.

MSE WALLS

MSE WALL DESIGN AND CONSTRUCTION MUST BE IN ACCORDANCE WITH SECTION 626 OF THE WVDOH STANDARD SPECIFICATIONS.

A MINIMUM REINFORCEMENT LENGTH OF 70 PERCENT OF THE WALL HEIGHT SHALL BE USED TO MEET EXTERNAL STABILITY REQUIREMENTS; HOWEVER, IN NO CASE SHOULD THE REINFORCEMENT LENGTH BE LESS THAN 8.0 FEET.

SELECT EMBANKMENT

ALL FILL EMBANKMENTS FOR THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE WVDOH STANDARD SPECIFICATIONS SECTION 207.

SIDEHILL AND SLIVER FILLS SHOULD BE CONSTRUCTED BY EXCAVATING A BENCH AT THE TOE OF THE FILL SLOPE. THE BOTTOM OF THIS BENCH SHOULD SLOPE AWAY FROM THE EMBANKMENT AT A SLOPE OF 20:1 (H:V). SIDEHILL FILL SHOULD BE BENCHED (KEYED) INTO THE EXISTING EMBANKMENT AS THE FILL PROGRESSES UP THE SLOPE. ALL FILL SHOULD BE PLACED IN LEVEL, HORIZONTAL LIFTS IN ACCORDANCE WITH THE WVDOH STANDARD SPECIFICATIONS. A MAXIMUM FILL EMBANKMENT SLOPE OF 2:1 (H:V) SHALL BE USED WHERE POSSIBLE AND ALL LOCATIONS WHERE RANDOM FILL IS PLACED. IN AREAS WHERE IT IS REQUIRED TO USE SLOPES STEEPER THAN 2:1, SELECT EMBANKMENT FILL MUST BE UTILIZED. IN NO CASE, SHALL THE FILL BE SLOPED STEEPER THAN 1.5H:1V.

BRIDGE PLATE

A BRONZE PLATE, CARRYING THE PROJECT NUMBER, THE NUMBER OF THE BRIDGE, AND THE YEAR OF THE BRIDGE CONSTRUCTION, WILL BE FURNISHED AND PLACED BY THE CONTRACTOR WITHOUT EXTRA COMPENSATION. THE NAMEPLATE SHALL BE PLACED IN THE RAILINGS AS DESIGNATED BY THE ENGINEER. THE PLATE SHALL BE A MINIMUM OF 8 INCHES BY 10 INCHES (200 BY 250 MM) WIDE, WITH LETTERS AND NUMBER 3/4 INCH (20 MM) MINIMUM HEIGHT RAISED ⅛ INCH (3 MM) ABOVE THE SURFACE OF THE PLATE. THE INFORMATION ON THE PLATE SHALL BE ARRANGED AS SHOWN IN SECTION 104.8 OF THE STANDARD SPECIFICATIONS.

SPECIAL PROVISIONS

SECTION 615 ELASTOMERIC BEARINGS
SECTION 616 DYNAMIC PILE TESTING
SECTION 627 STRIP SEAL EXPANSION JOINT ASSEMBLY

DECK

THE 8½ INCH THICK CAST-IN-PLACE DECK SHALL HAVE A MINIMUM OF 3" COVER OF WHICH ¼" SHALL BE REMOVED BY DIAMOND GRINDING IN ACCORDANCE WITH SECTION 508 OF THE STANDARD SPECIFICATIONS EXCEPT RIDEABILITY REQUIREMENTS SHALL BE IN ACCORDANCE WITH SECTION 601.11.4.3 OF THE STANDARD SPECIFICATION. THE DECK SHALL ALSO RECEIVE LONGITUDINAL GROOVING IN ACCORDANCE WITH SECTION 601.11.4.4.2 OF THE STANDARD SPECIFICATION AFTER DIAMOND GRINDING. COST ASSOCIATED WITH THIS WORK SHALL BE INCIDENTAL TO THE PAY ITEM 601009-001, CLASS H CONCRETE.

DECK PLACEMENT

THE DECK PLACEMENT SEQUENCE IS SHOWN BY PLACEMENT NUMBERS ON THE DECK POUR SEQUENCE. CONCRETE MUST ATTAIN A MINIMUM STRENGTH OF 3000 PSI BEFORE SUBSEQUENT PLACEMENTS ARE MADE.

DECK PLACEMENT DESIGN ASSUMPTIONS

THE FOLLOWING ASSUMPTIONS OF CONSTRUCTION MEANS AND METHODS WERE MADE FOR THE ANALYSIS AND DESIGN OF THE SUPERSTRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF THE FALSE WORK SUPPORT SYSTEM WITHIN THESE PARAMETERS AND WILL ASSUME RESPONSIBILITY FOR THE SUPERSTRUCTURE ANALYSIS FOR DEVIATION FROM THESE DESIGN ASSUMPTIONS.

AN EIGHT WHEEL FINISHING MACHINE WITH A MAXIMUM WHEEL LOAD OF 1.2 KIPS FOR A TOTAL MACHINE LOAD OF 10 KIPS.

A MINIMUM OUT - TO - OUT WHEEL SPACING AT EACH END OF THE MACHINE OF 132 IN.

A MAXIMUM SPACING OF OVERHANG FALSE WORK BRACKETS OF 48 IN.

A MAXIMUM DISTANCE FROM THE CENTERLINE OF THE FASCIA GIRDER TO THE FACE OF THE SAFETY HANDRAIL OF 72 IN

ABBREVIATIONS

AASHTO - AMERICAN ASSOCIATION OF STATE HIGHWAY TRANSPROTATION OFFICIALS	LS - LUMP SUM
ABUT - ABUTMENT	MAT - MATERIAL
BOS - BOTTOM OF SLAB	MAX - MAIMUM
BOT- BOTTOM	MIN - MINIMUM
BRG - BEARING	MK - MARK
BTWN - BETWEEN	NF - NEAR FACE
CJ - CONSTRUCTON JOINT	NTS - NOT TO SCALE
CLR - CLEAR	OD - OUTSIDE DIAMETER
CTR - CENTER	OHW - ORDINARY HIGH WATER
C/L - CENTER LINE	PSI - POUNDS PER SQAURE INCH
CY - CUBIC YARD	PVC - POLY VINYL CHLORIDE
DIA - DIAMETER	R - RADIUS
EA - EACH	RCJ - ROUGHENED CONSTRUCTION JOINT
EF - EACH FACE	REC - RECOVERED
EL - ELEVATION	REQ'D - REQUIRED
EOW - EDGE OF WATER	RQD - ROCK QUALITY DESIGNATION
EQ - EQUAL	SER - SERIES
ES - EACH SIDE	SF - SQUARE FOOT
EXP - EXPANSION	SIP - STAY IN PLACE FORMS
FF - FAR FACE	SPA - SPACES
FS - FIELD SPLICE	SQ - SQUARE
FTG - FOOTING	STA - STATION
GA - GUAGE	T&B - TOP AND BOTTOM
GDR - GIRDER	TOS - TOP OF SLAB
HS - HIGH STRENGTH	TYP - TYPICAL
ID - INSIDE DIAMETER	VC - VERTICAL CURVE
SEMI-INT - SEMI INTEGRAL	VCJ - VERTICAL CONSTRUCTION JOINT
LF - LINEAR FOOT	WP - WORK POINT
LRFD - LOAD AND RESISTANCE FACTOR DESIGN	TCB - TEMPORARY CONCRETE BARRIER

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

DODDRIDGE COUNTY BOARD OF EDUCATION

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GENERAL NOTES SHEET 2 OF 2

SHEET B-06 OF B-53
BRIDGE NO. 1797.2

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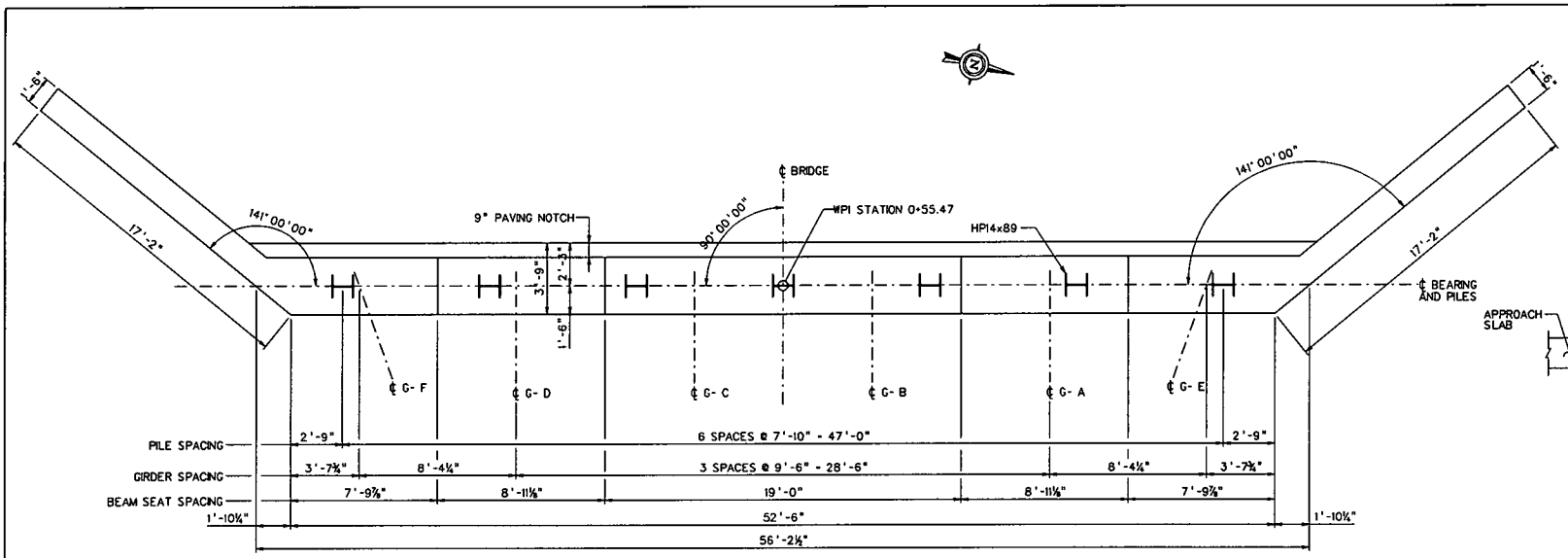
W. V.	9	S345 -33/2- 2.34 00	NFA-2417 (025)0	2020	DODDRIDGE		81



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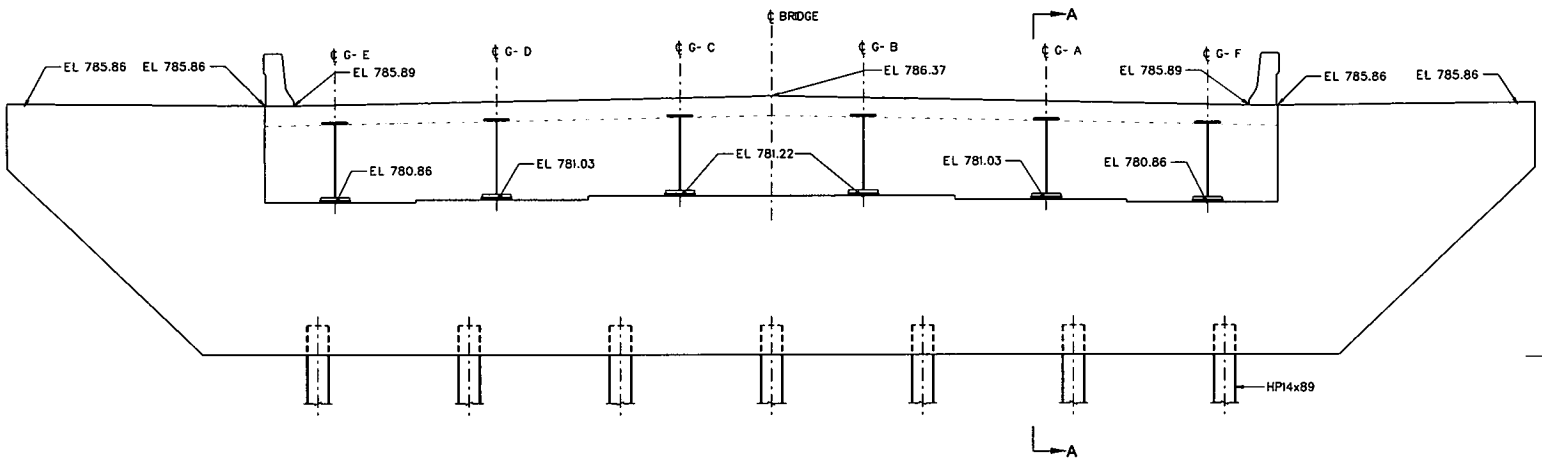

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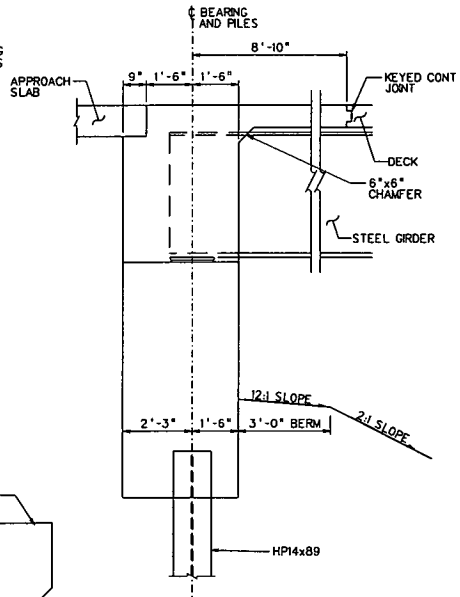

SECTION A-A
SCALE: ½" = 1'-0"

EL 772.97

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

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ABUTMENT 1 PLAN AND ELEVATION

SHEET 8- OF 8- 53
BRIDGE NO. 1797. 2

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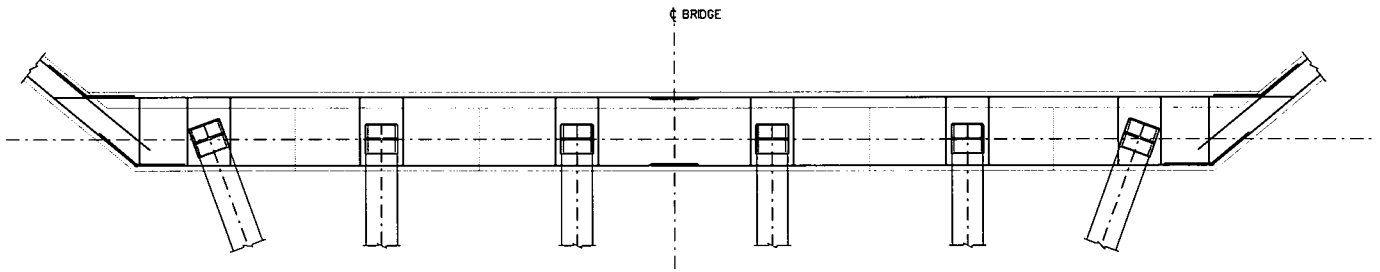

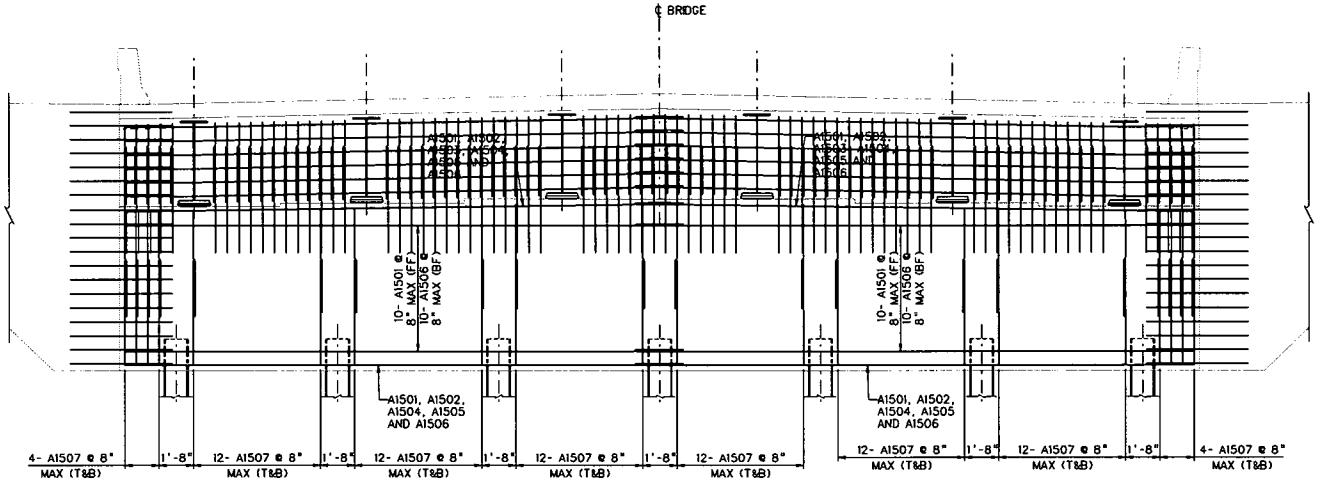

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(LOOKING BACK STATION)
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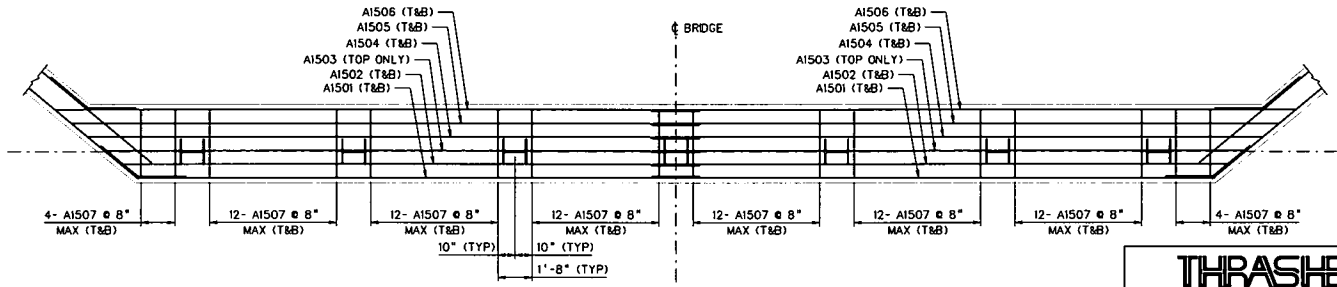

PILE CAP AND PILE- PLAN
SCALE: NOT TO SCALE

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

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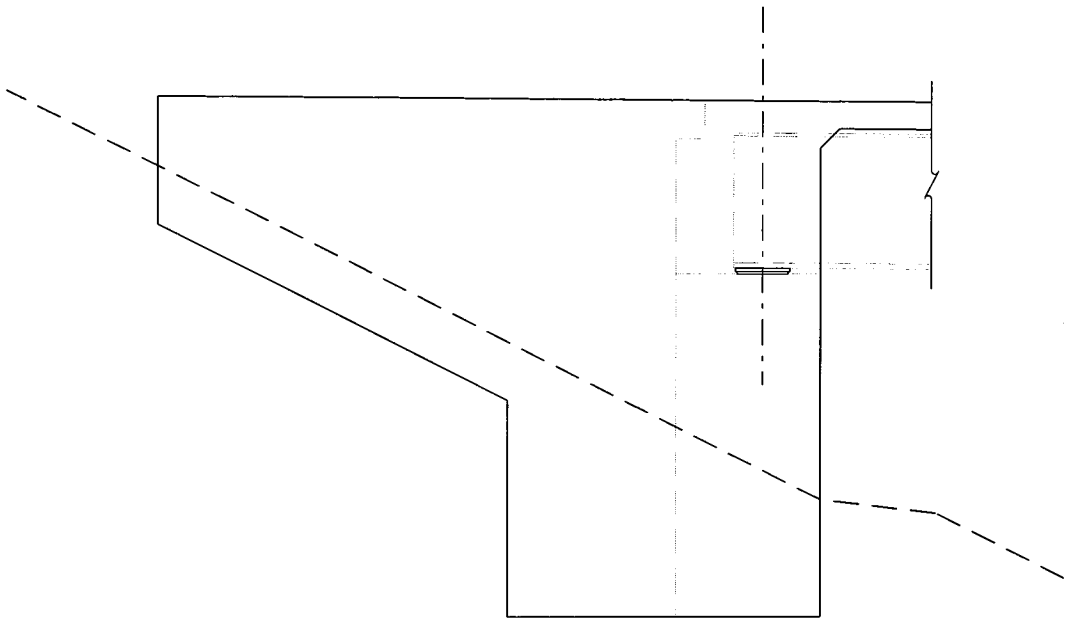
SHEET B- OF B-53

BRIDGE NO. 1797.2

PUBLIC ROADS QTY.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
W. V.	9	S345 -33/2- 2.34 00	NFA-2417 (025)0	2020	DODDRIDGE		81



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

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SHEET B- OF B- 53

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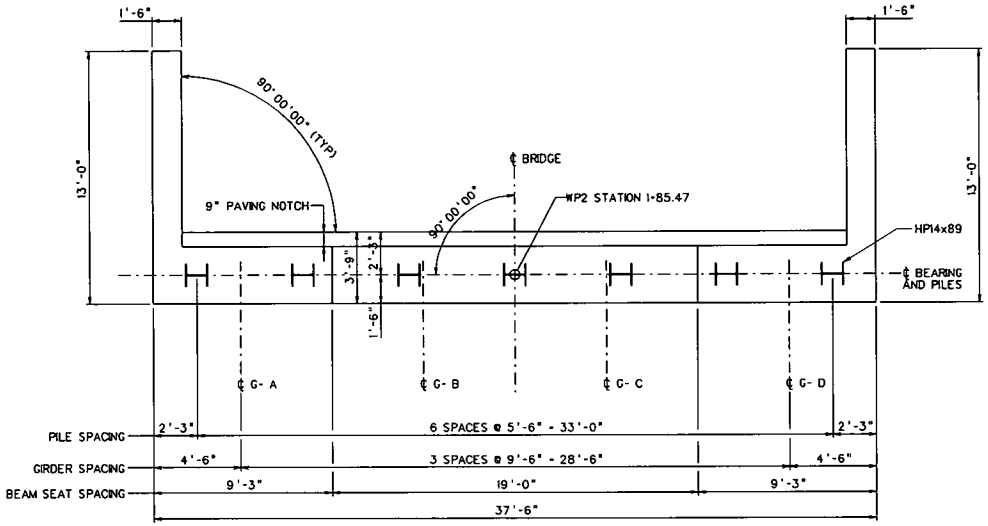

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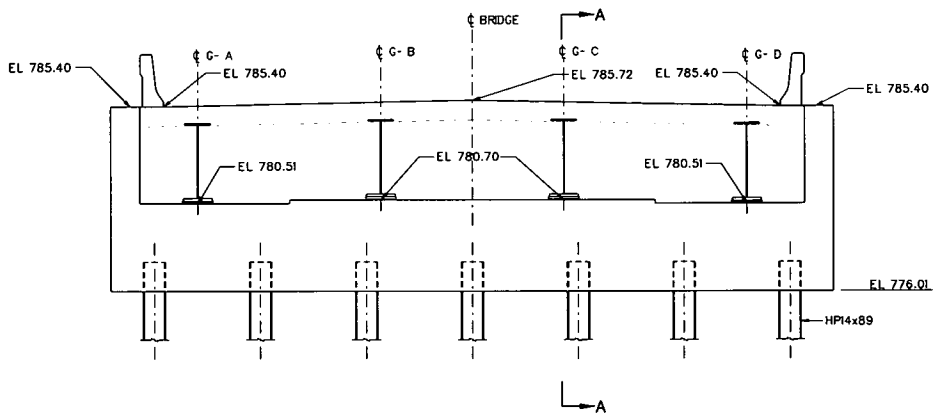

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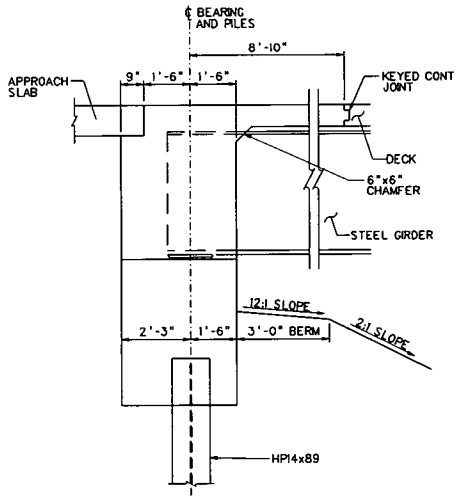

SECTION A-A
SCALE: ½" = 1'-0"

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

DODDRIDGE COUNTY BOARD OF EDUCATION

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ABUTMENT 2 PLAN AND ELEVATION

SHEET B- OF B-53

BRIDGE NO. 1797. 2

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	SCM	08/20
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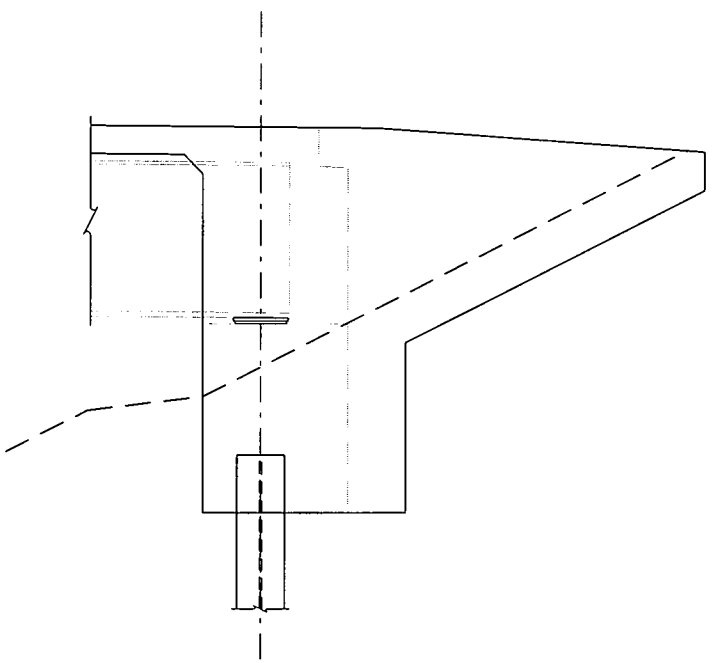
W. V.	9	S345 -33/2- 2.34 08	NFA-2417 (025)D	2020	DODDRIDGE		81



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

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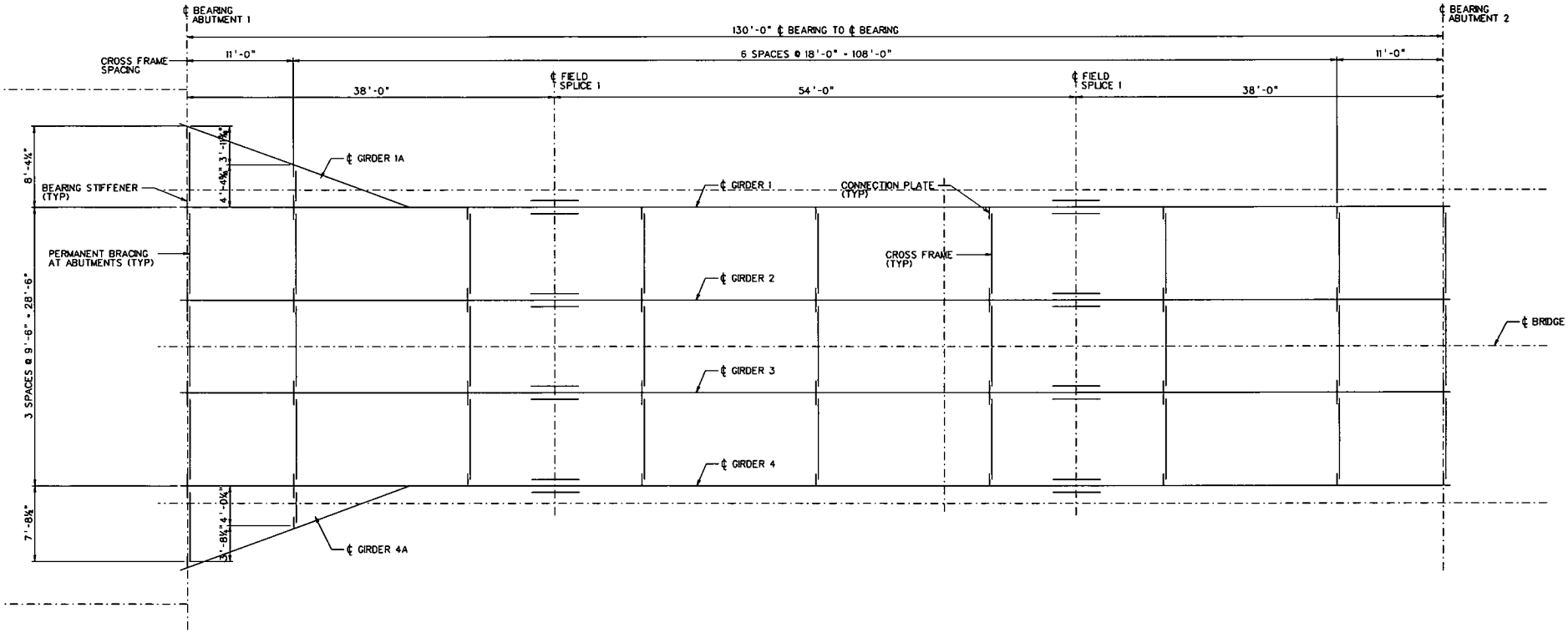
PUBLIC ROADS CITY.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
W. V.	9	S345 -33/2- 2.34 88	NFA-2417 (025X)	2020	DODDRIDGE		81



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

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FRAMING PLAN

SHEET B- OF B-53

BRIDGE NO. 1797. 2

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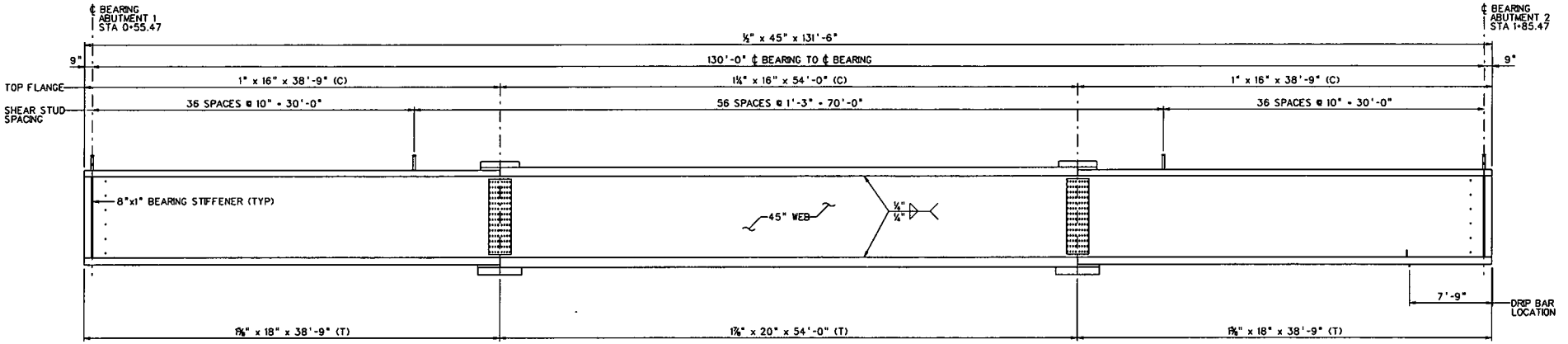

GIRDER ELEVATION
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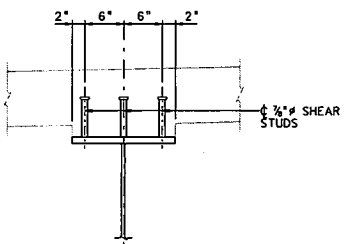

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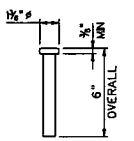
SCALE: NOT TO SCALE



SHEAR STUD DETAIL
SCALE: NOT TO SCALE

GIRDER END DETAIL
SCALE: NOT TO SCALE

NOTES:
1. ALL STEEL FOR BEAMS, DIAPHRAGM CONNECTION PLATES SHALL CONFORM TO AASHTO M270 50W-T2 UNLESS NOTED.
2. STEEL GRADE FOR BEARING STIFFENERS SHALL CONFORM TO AASHTO M270 GRADE 50W.
3. ALL BEARING STIFFENERS SHALL BE TRULY VERTICAL UNDER FULL DEAD LOAD.
4. ALL DIAPHRAGM CONNECTION PLATES SHALL BE PERPENDICULAR TO THE FLANGES.
5. FOR DIAPHRAGM, FIELD SPLICE AND MISCELLANEOUS STEEL DETAILS SEE SHEETS B-25 TO B-29.
6. ALL BOLTS UNLESS OTHERWISE NOTED SHALL BE ⅞" DIA SLIP-CRITICAL HS BOLTS, TYPE 3 (ASTM F3125 GRADE A325).
7. ALL HOLES FOR ⅞" DIA HS BOLTS SHALL BE 15/16" DIA UNLESS OTHERWISE NOTED.
8. FOR WELD SIZE, SEE SHEET B-29.
9. FOR CAMBER DIAGRAM, SEE SHEET B-30.
10. FOR FRAMING PLAN, SEE SHEET B-24.

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

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DODDRIDGE COUNTY PRE-K ACCESS BRIDGE

GIRDER ELEVATION

SHEET B- OF B-53
BRIDGE NO. 1797.2

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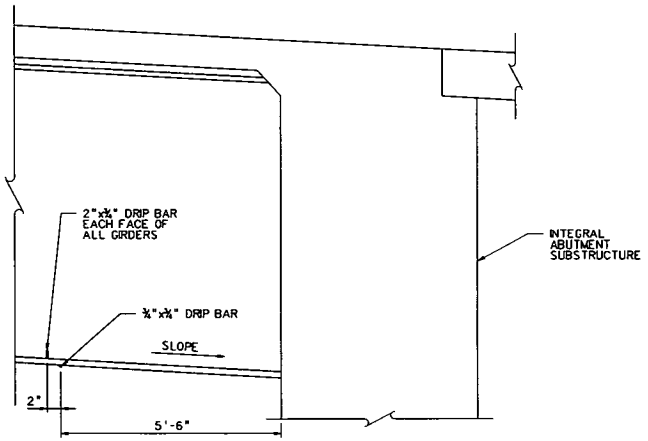
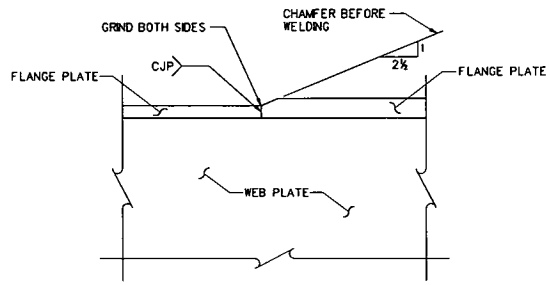
W. V.	9	S345 -33/2- 2.34 00	NFA-2417 (025)10	2020	DODDRIDGE	255	81

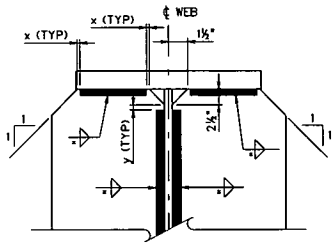


ELEVATION VIEW
DRIP BAR LOCATIONS
SCALE: NOT TO SCALE



ELEVATION FLANGE
SPLICE DETAIL
SCALE: NOT TO SCALE

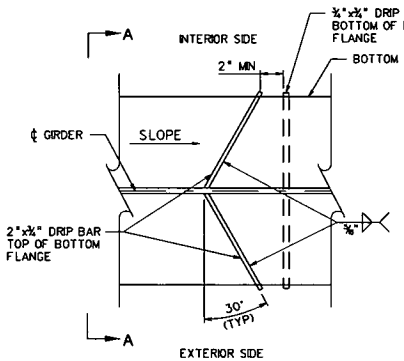
x WELD: ¼" +/- ⅛" FROM END OF PLATE OR FLANGE
y WELD: ½" +/- ¼" FROM END OF PLATE



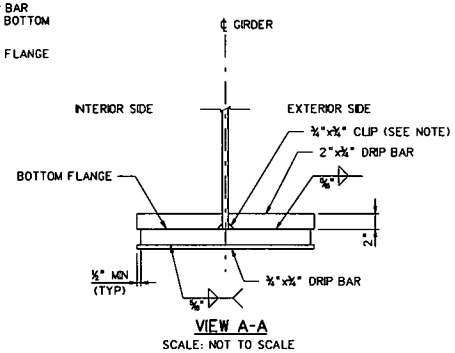
DETAIL AT END OF
CONNECTION PLATE
SCALE: NOT TO SCALE

* WELD SIZES	
PLATE THICKNESS	WELD SIZE
< ¾"	¼"
≥ ¾"	⅜"

ALL WELDS SHALL CONFORM TO THE 2015
WELDING CODE ANSI / AASHTO / AWS D1.5

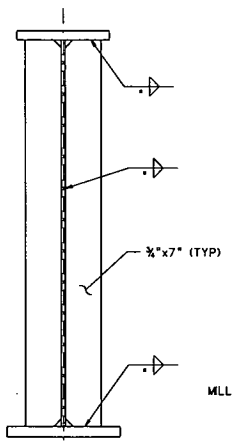


PLAN VIEW
DRIP BAR LOCATIONS
SCALE: NOT TO SCALE

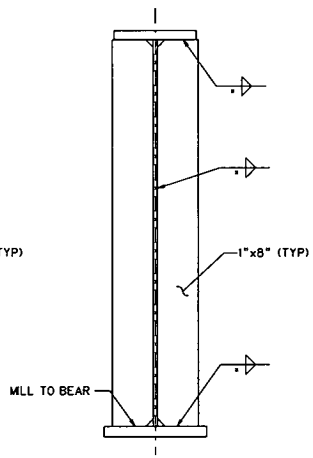


VIEW A-A
SCALE: NOT TO SCALE

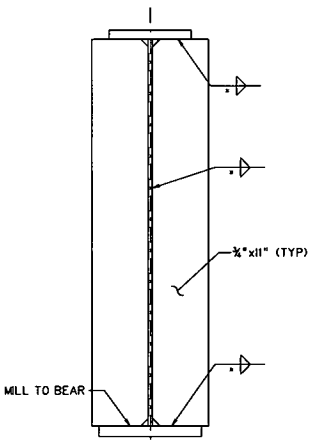
DRIP BAR DETAILS



INTERMEDIATE
CONNECTION PLATE
DETAIL
SCALE: NOT TO SCALE
(INTERIOR GIRDER SHOWN)



BEARING STIFFENER DETAIL
SCALE: NOT TO SCALE



ABUTMENT
CONNECTION PLATE
DETAIL
SCALE: NOT TO SCALE
(INTERIOR GIRDER SHOWN)

NOTE:
DRIP BAR ON BOTTOM FLANGE SHALL BE CAULKED WITH DARK BROWN CAULKING AGAINST FLANGE, WEB AND FILLET WELD SUBJECT TO THE APPROVAL OF THE ENGINEER. INCLUDE COST IN ITEM 615001-001 STEEL SUPERSTRUCTURE. SEE FRAMING PLAN AND GIRDER ELEVATION FOR LOCATION OF DRIP BARS.

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

DODDRIDGE COUNTY
BOARD OF EDUCATION

DODDRIDGE COUNTY
PRE-K
ACCESS BRIDGE

MISCELLANEOUS
STEEL DETAILS

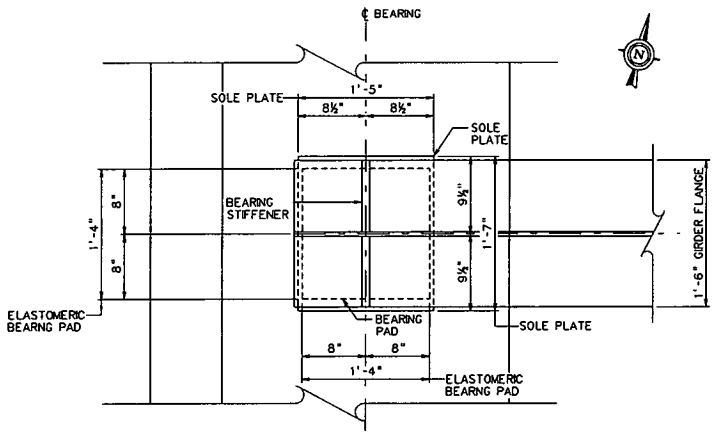
SHEET
B-29 OF B-53

BRIDGE NO.
1797.2

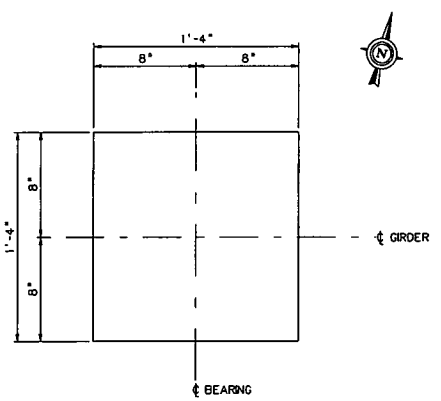
DESIGNED	DATE
RLC	08/20
DRAWN	
SDH	08/20
CHECKED	
CHECKED	

THRASHER
300 ASSOCIATION DRIVE
CHARLESTON, WV 25311
www.thethrashergroup.com
PHONE (304)343-7601
FAX (304)343-7604

PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
W. V.	9	S345 -33/2- 2.34 00	NFA-2417 (025)0	2020	DODDRIDGE		81



PLAN
SCALE: NOT TO SCALE



PLAN
BEARING PAD
SCALE: NOT TO SCALE

NOTES:

1. ELASTOMER IN ALL BEARINGS SHALL HAVE A SHEAR MODULUS G = 0.165 KSI AT 73°F.

2. DUROMETER 60 (HARDNESS) NEOPRENE SHALL BE USED FOR ELASTOMERIC PAD.

3. PROVIDE STRUCTURAL STEEL CONFORMING TO AASHTO M270 GRADE 50 (UNLESS NOTED).

4. PROVIDE STEEL CONFORMING TO ASTM A1011, GRADE 50 FOR THE BONDED STEEL PLATE IN ACCORDANCE WITH AASHTO SECTION 14.5.2.

5. BEARINGS SHALL BE SUBJECT TO TESTING REQUIREMENTS IN ACCORDANCE WITH AASHTO, LRFD CONSTRUCTION SPECIFICATION SECTION 18, CORRESPONDING TO DESIGN METHOD A.

6. INSTALL BEAMS AND BEARINGS TO ENSURE FULL CONTACT WITH BEARING SURFACES. IF FULL CONTACT IS NOT ACHIEVED AFTER THE DECK IS IN PLACE, FIELD ADJUSTMENTS OR MODIFICATIONS WILL BE MADE BY THE CONTRACTOR TO ENSURE FULL CONTACT AND IS SUBJECT TO THE APPROVAL OF THE ENGINEER.

7. TOLERANCES: INDIVIDUAL ELASTOMER LAYER THICKNESS: ±20% OF DESIGN VALUE (NOT TO EXCEED ±⅛")

PLAN DIMENSIONS	-0, +⅛"
DESIGN THICKNESS	-0, +⅛"
EDGE COVER OF EMBEDDED LAMINATES	-0, +¼"

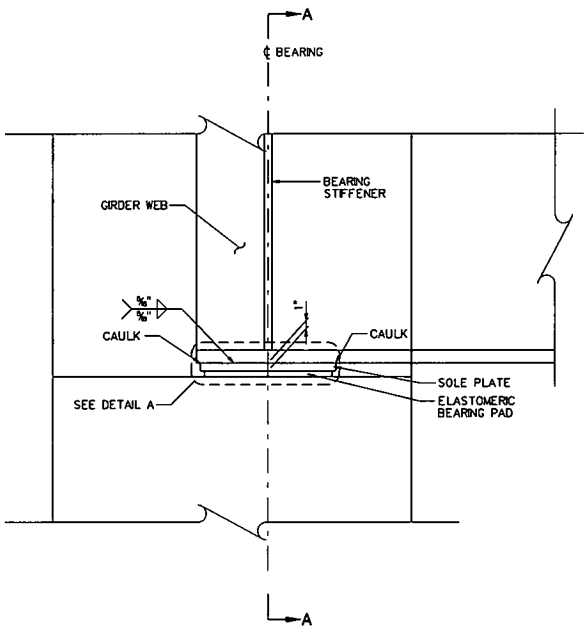
8. STEEL TROWEL FINISH BEARING SEATS ON ABUTMENT TO TRUE PLANES AND ELEVATIONS. THE FLATNESS OF THE FINISHED SURFACE SHALL NOT VARY FROM A STRAIGHT EDGE LAID ON THE SURFACE IN ANY DIRECTION WITHIN THE LIMITS OF THE MASONRY PLATE BY MORE THAN 1/16". GRIND SURFACES THAT FAIL TO CONFORM TO THE REQUIRED FLATNESS UNIT ACCEPTABLE.

9. CAUTION SHALL BE EXERCISED WHERE A FIELD WELD OR SHOP WELD WILL BE MADE WHILE ELASTOMERIC BEARING PAD IS IN CONTACT WITH METAL. IN NO CASE SHALL THE ELASTOMERIC PAD BE EXPOSED TO INSTANTANEOUS TEMPERATURES GREATER THAN 400° FAHRENHEIT.

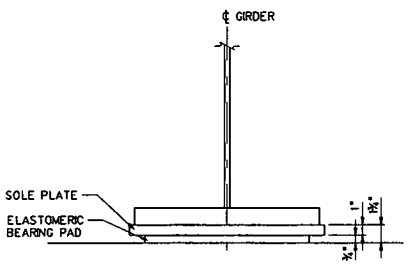
10. EPOXY/GRIT COATING SHALL BE APPLIED TO THE BOTTOM SURFACE OF THE SOLE PLATE AND TO THE TOP SURFACE OF THE CONCRETE THAT IS IN CONTACT WITH THE ELASTOMERIC PAD, PLUS AN ADDITIONAL ½" IN ALL DIRECTIONS. SEE SPECIAL PROVISIONS FOR ADDITIONAL DETAILS.

11. THE ENTIRE SOLE PLATE SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH AASHTO M111. PAINT EXPOSED STEEL PORTIONS OF THE BEARING AFTER GALVANIZING. THE COLOR OF THE FINAL TOP COAT SHALL MATCH THE COLOR OF THE WEATHERING STEEL.

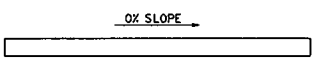
12. SIDES OF THE SOLE PLATE THAT ARE NOT WELDED SHALL BE CAULKED WITH A MATERIAL MATCHING THE COLOR OF THE WEATHERING STEEL.



TYPICAL SECTION
SCALE: NOT TO SCALE



SECTION A-A
SCALE: NOT TO SCALE



DETAIL A
SCALE: NOT TO SCALE

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

DODDRIDGE COUNTY BOARD OF EDUCATION

DODDRIDGE COUNTY PRE-K ACCESS BRIDGE

ABUTMENT 1 AND 2 BEARING DETAILS

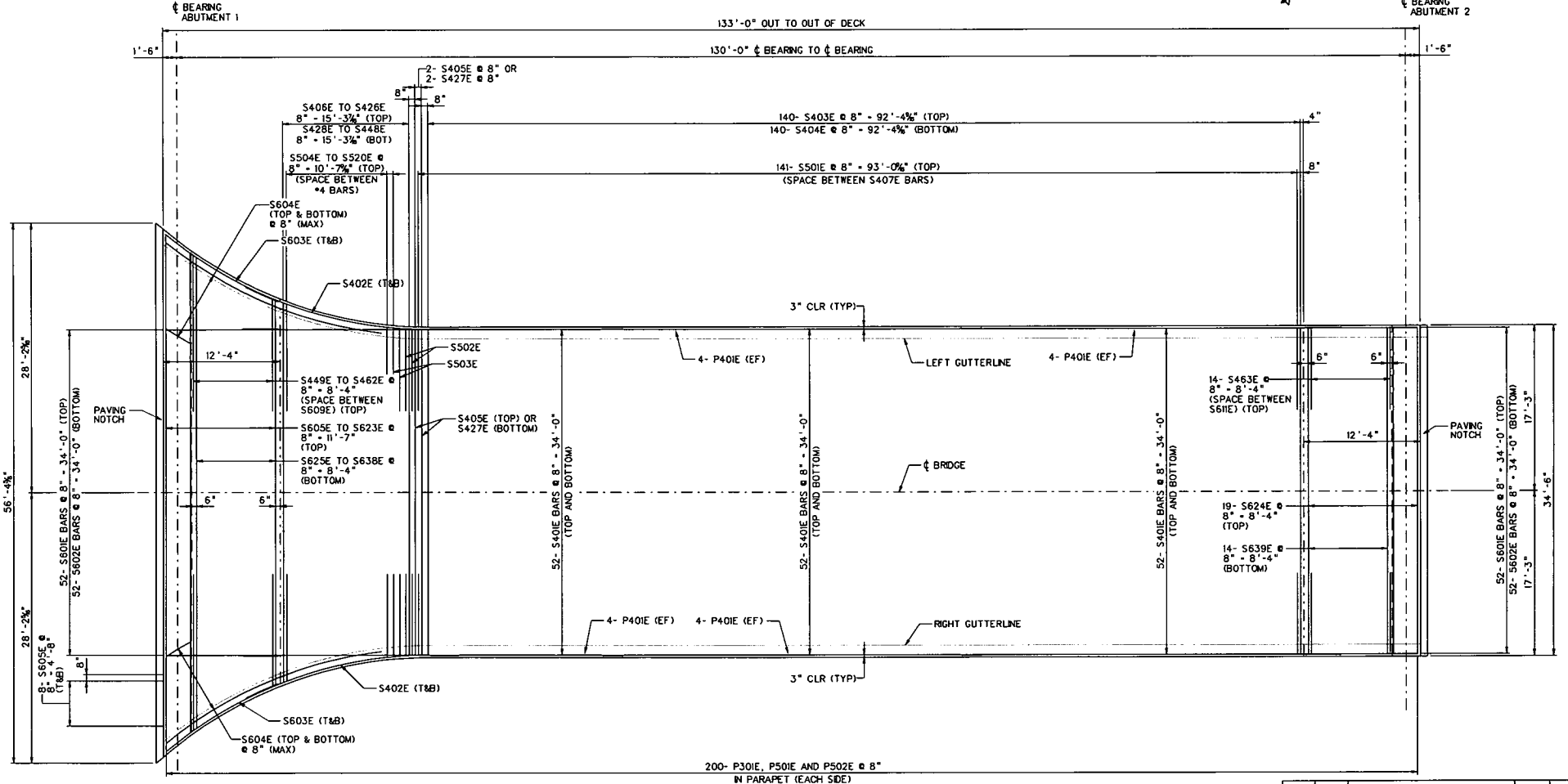
SHEET B- OF B-53

BRIDGE NO. 1797. 2

THRASHER
300 ASSOCIATION DRIVE
CHARLESTON, WV 25311
www.thethrashergroup.com
PHONE (304)343-7601
FAX (304)343-7604

DESIGNED	RLC	08/20
DRAWN	SCN	08/20
CHECKED		
CHECKED		

PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
W. V.	9	S345 -337/2- 2.34 00	NFA-2417 (025)D	2020	DODDRIDGE		81



DECK PLAN
SCALE: ⅜" = 1'-0"

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

DODDRIDGE COUNTY BOARD OF EDUCATION

DODDRIDGE COUNTY PRE-K ACCESS BRIDGE

DECK SLAB PLAN

SHEET B- OF B-53

BRIDGE NO. 1797.2

DESIGNED	RLC	08/20
DRAWN	SCM	08/20
CHECKED		
CHECKED		

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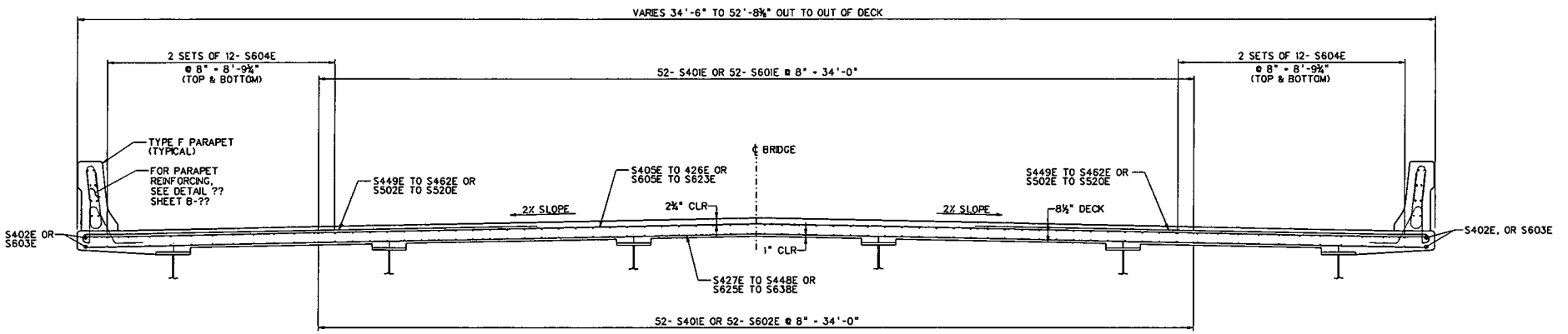
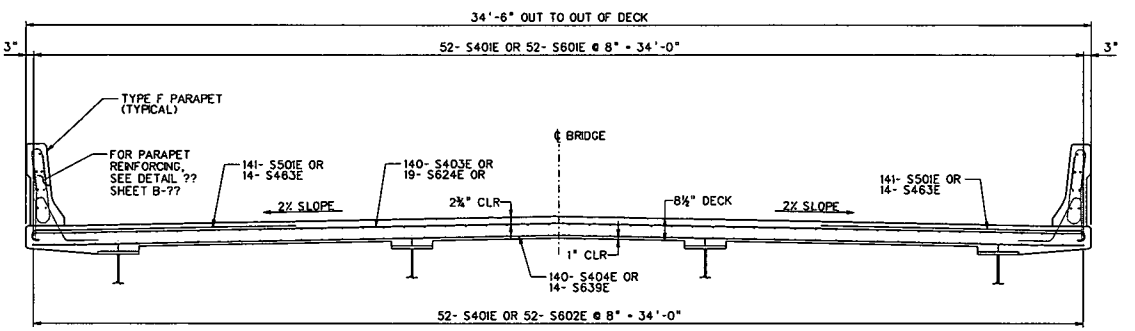
PUBLIC ROADS OFF.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
W. V.	9	S345 -33/2- 2.34 88	NFA-2417 (82510)	2020	DODDRIDGE		81



TYPICAL SECTION AT ABUTMENT 1 END
(LOOKING AHEAD STATION)
SCALE: ½" - 1'-0"



TYPICAL SECTION AT ABUTMENT 2 END
(LOOKING AHEAD STATION)
SCALE: ½" - 1'-0"

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

DODDRIDGE COUNTY BOARD OF EDUCATION

DODDRIDGE COUNTY PRE-K ACCESS BRIDGE

DECK REINFORCING TYPICAL SECTIONS

SHEET B- OF B-53
BRIDGE NO. 1797.2

THRASHER
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CHARLESTON, WV 25311
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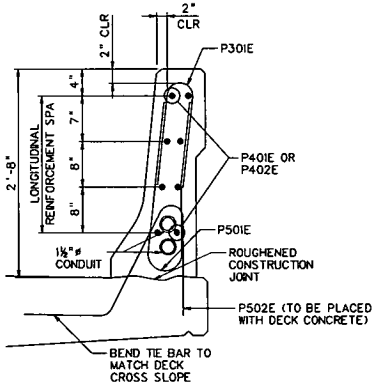
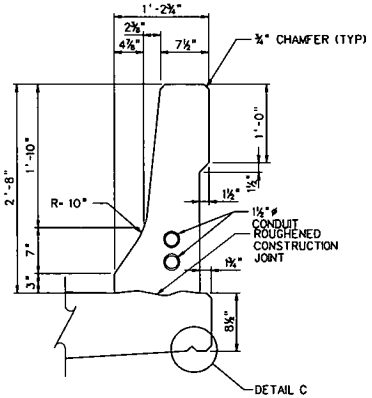
FAX (304)343-7604

DESIGNED	DATE
RLC	08/20
DRAWN	
SCM	08/20
CHECKED	
CHECKED	

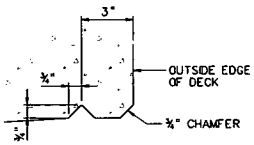
PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
W. V.	9	S345 -33/2- 2.34 00	NFA-2417 (025)0	2020	DODDRIDGE	260	81



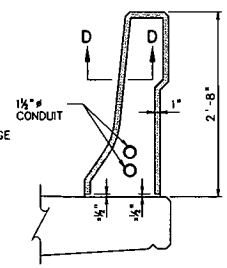
DETAIL A
SCALE: NOT TO SCALE



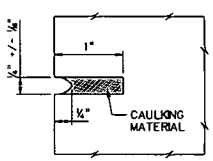
DETAIL B
SCALE: NOT TO SCALE



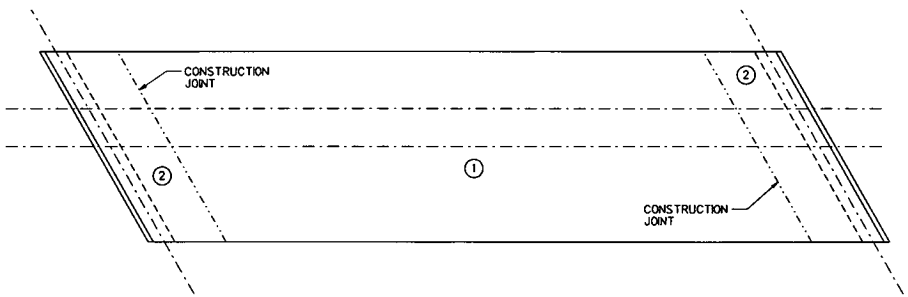
DETAIL C
SCALE: NOT TO SCALE



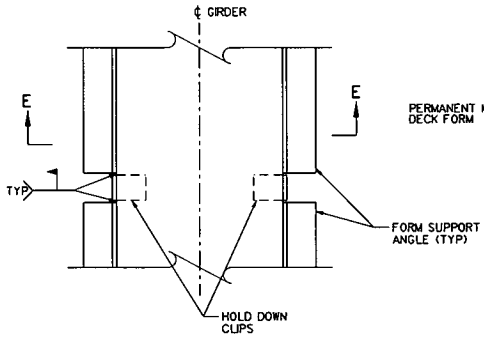
CONTROL JOINTS
SCALE: NOT TO SCALE
(SEE NOTES)
•UNSEALED



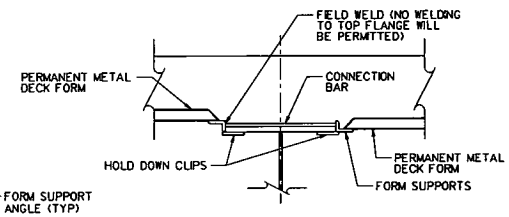
SECTION D-D
SCALE: NOT TO SCALE



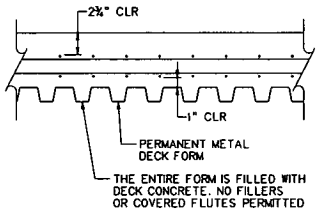
POURING SEQUENCE
SCALE: NOT TO SCALE



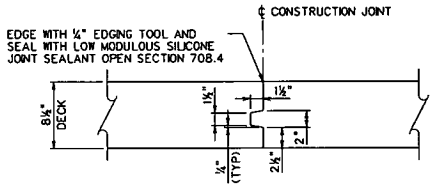
STAY IN PLACE FORM PLAN
SCALE: NOT TO SCALE



SECTION E-E
SCALE: NOT TO SCALE



STAY IN PLACE FORM DETAIL
SCALE: NOT TO SCALE



CONSTRUCTION JOINT DETAIL
(REINFORCEMENT NOT SHOWN FOR CLARITY)
SCALE: NOT TO SCALE

CONTROL JOINTS FOR CONCRETE PARAPETS:

SAWCUT 1" DEEP CONTROL JOINTS ALONG THE PERIMETER OF THE PARAPET AS SOON AS THE SAW CAN BE OPERATED WITHOUT DAMAGING THE CONCRETE.

USE AN EDGE GUIDE, FENCE OR JIG TO ENSURE THAT THE CUT JOINT IS STRAIGHT, TRUE AND ALIGNED ON ALL FACES OF THE PARAPET. THE JOINT WIDTH SHALL BE THE WIDTH OF THE SAW BLADE, A NOMINAL WIDTH OF ¼".

PLACE CONTROL JOINTS AT A MAXIMUM OF 20'-0" IN BETWEEN.

SEAL THE PERIMETER OF THE CONTROL JOINT TO A MINIMUM DEPTH OF ONE INCH WITH A POLYURETHANE OR POLYMERIC MATERIAL CONFORMING TO ASTM C920, TYPE S. LEAVE THE BOTTOM ½" OF BOTH THE INSIDE AND OUTSIDE FACES OF THE PARAPET UNSEALED TO ALLOW ANY WATER WHICH MAY ENTER THE JOINT TO ESCAPE.

POURING NOTES:
1. ALL CONCRETE PLACEMENTS MARKED ① SHALL BE PLACED IN NUMERICAL SEQUENCE SHOWN.
2. THE ADJACENT PREVIOUS PLACEMENT SHALL OBTAIN A MINIMUM OF 2000 PSI BEFORE THE NEXT PLACEMENT IS MADE.

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

DODDRIDGE COUNTY BOARD OF EDUCATION

DODDRIDGE COUNTY PRE-K ACCESS BRIDGE

DECK DETAILS

DESIGNED	DATE
RLC	08/20
DRAWN	
SGN	08/20
CHECKED	
CHECKED	

SHEET B-34 OF B-53
BRIDGE NO. 1797.2

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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.	9	S345 -33/2- 2.34 00	NFA-2417 (025D)	2020	DODDRIDGE		81

DECK SLAB REIFORCING

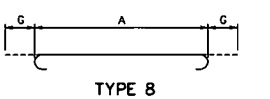
MARK	No.	LENGTH	WEIGHT (lb) UNCOATED	WEIGHT (lb) EPOXY COATED	TYPE	A	G
S401E	312	40' - 2"		8372	STR		
S402E	4	23' - 3"		63	20	23'-3"	44'-0"
S403E	140	35' - 4"		3305	8	34'-0"	8"
S404E	140	34' - 0"		3180	STR		
S405E	2	35' - 5"		48	8	34'-1"	8"
S406E	1	35' - 6"		24	8	34'-2"	8"
S407E	1	35' - 7"		24	8	34'-3"	8"
S408E	1	35' - 8"		24	8	34'-4"	8"
S409E	1	35' - 9"		24	8	34'-5"	8"
S410E	1	35' - 11"		24	8	34'-7"	8"
S411E	1	36' - 1"		25	8	34'-9"	8"
S412E	1	36' - 3"		25	8	34'-11"	8"
S413E	1	36' - 5"		25	8	35'-1"	8"
S414E	1	36' - 8"		25	8	35'-4"	8"
S415E	1	36' - 11"		25	8	35'-7"	8"
S416E	1	37' - 2"		25	8	35'-10"	8"
S417E	1	37' - 6"		26	8	36'-2"	8"
S418E	1	37' - 9"		26	8	36'-5"	8"
S419E	1	38' - 1"		26	8	36'-9"	8"
S420E	1	38' - 5"		26	8	37'-1"	8"
S421E	1	38' - 10"		26	8	37'-6"	8"
S422E	1	39' - 3"		27	8	37'-11"	8"
S423E	1	39' - 8"		27	8	38'-4"	8"
S424E	1	40' - 1"		27	8	38'-9"	8"
S425E	1	40' - 6"		28	8	39'-2"	8"
S426E	1	41' - 0"		28	8	39'-8"	8"
S427E	2	34' - 1"		46	STR		
S428E	1	34' - 2"		23	STR		
S429E	1	34' - 3"		23	STR		
S430E	1	34' - 4"		23	STR		
S431E	1	34' - 5"		23	STR		
S432E	1	34' - 7"		24	STR		
S433E	1	34' - 9"		24	STR		
S434E	1	34' - 11"		24	STR		
S435E	1	35' - 1"		24	STR		
S436E	1	35' - 4"		24	STR		
S437E	1	35' - 7"		24	STR		
S438E	1	35' - 10"		24	STR		
S439E	1	36' - 2"		25	STR		
S440E	1	36' - 5"		25	STR		
S441E	1	36' - 9"		25	STR		
S442E	1	37' - 1"		25	STR		
S443E	1	37' - 6"		26	STR		
S444E	1	37' - 11"		26	STR		
S445E	1	38' - 4"		26	STR		
S446E	1	38' - 9"		26	STR		
S447E	1	39' - 2"		27	STR		
S448E	1	39' - 8"		27	STR		
S449E	2	12' - 5"		17	9	11'-9"	8"
S450E	2	12' - 9"		18	9	12'-1'	8"
S451E	2	13' - 0"		18	9	12'-4"	8"
S452E	2	13' - 4"		18	9	12'-8"	8"
S453E	2	13' - 8"		19	9	13'-0"	8"
S454E	2	13' - 11"		19	9	13'-3"	8"
S455E	2	14' - 3"		20	9	13'-7"	8"
S456E	2	14' - 7"		20	9	13'-11"	8"
S457E	2	15' - 0"		21	9	14'-4"	8"
S458E	2	15' - 4"		21	9	14'-8"	8"
S459E	2	15' - 9"		22	9	15'-1"	8"

DECK SLAB REIFORCING

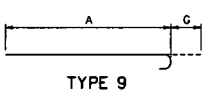
MARK	No.	LENGTH	WEIGHT (lb) UNCOATED	WEIGHT (lb) EPOXY COATED	TYPE	A	G
S460E	2	16' - 2"		22	9	15'-6"	8"
S461E	2	16' - 7"		23	9	15'-11"	8"
S462E	2	17' - 1"		23	9	16'-5"	8"
S463E	28	9' - 2"		172	9	8'-6"	8"
S501E	282	9' - 3"		2721	9	8'-6"	9"
S502E	4	9' - 4"		39	9	8'-7"	9"
S503E	4	9' - 5"		40	9	8'-8"	9"
S504E	2	9' - 6"		20	9	8'-9"	9"
S505E	2	9' - 7"		20	9	8'-10"	9"
S506E	2	9' - 8"		21	9	8'-11"	9"
S507E	2	9' - 9"		21	9	9'-0"	9"
S508E	2	9' - 11"		21	9	9'-2"	9"
S509E	2	10' - 0"		21	9	9'-3"	9"
S510E	2	10' - 1"		22	9	9'-4"	9"
S511E	2	10' - 3"		22	9	9'-6"	9"
S512E	2	10' - 5"		22	9	9'-8"	9"
S513E	2	10' - 7"		23	9	9'-10"	9"
S514E	2	10' - 9"		23	9	10'-0"	9"
S515E	2	10' - 11"		23	9	10'-2"	9"
S516E	2	11' - 1"		24	9	10'-4"	9"
S517E	2	11' - 4"		24	9	10'-7"	9"
S518E	2	11' - 6"		24	9	10'-9"	9"
S519E	2	11' - 9"		25	9	11'-0"	9"
S520E	2	12' - 0"		26	9	11'-3"	9"
S601E	104	11' - 11"		1862	STR		
S602E	104	10' - 5"		1628	STR		
S603E	4	13' - 11"		84	20	13'-11"	44'-0"
S604E	4 SETS OF 12	VARIES FROM 3'-0" TO 25'-0"		19	20	VARIES FROM 3'-0" TO 25'-0" IN 2'-0" INCREMENTS	VARIES FROM 44'-8" TO 52'-0" IN 8" INCREMENTS
S605E	1	42' - 2"		64	8	40'-4"	11"
S606E	1	42' - 8"		65	8	40'-10"	11"
S607E	1	43' - 3"		65	8	41'-5"	11"
S608E	1	43' - 10"		66	8	42'-0"	11"
S609E	1	44' - 5"		67	8	42'-7"	11"
S610E	1	45' - 1"		68	8	43'-3"	11"
S611E	1	45' - 8"		69	8	43'-10"	11"
S612E	1	46' - 4"		70	8	44'-6"	11"
S613E	1	47' - 1"		71	8	45'-3"	11"
S614E	1	47' - 10"		72	8	46'-0"	11"
S615E	1	48' - 7"		73	8	46'-9"	11"
S616E	1	49' - 4"		75	8	47'-6"	11"
S617E	1	50' - 2"		76	8	48'-4"	11"
S618E	1	51' - 0"		77	8	49'-2"	11"
S619E	1	51' - 11"		78	8	50'-1"	11"
S620E	1	52' - 10"		80	8	51'-0"	11"
S621E	1	53' - 9"		81	8	51'-11"	11"
S622E	1	54' - 9"		83	8	52'-11"	11"
S623E	1	55' - 10"		84	8	54'-0"	11"
S624E	19	35' - 10"		1023	8	34	11"
S625E	1	40' - 4"		61	STR		
S626E	1	40' - 10"		62	STR		
S627E	1	41' - 5"		63	STR		
S628E	1	42' - 0"		64	STR		

DECK SLAB REIFORCING

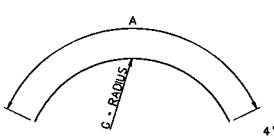
MARK	No.	LENGTH	WEIGHT (lb) UNCOATED	WEIGHT (lb) EPOXY COATED	TYPE	A	G
S629E	1	42' - 7"		64	STR		
S630E	1	43' - 3"		65	STR		
S631E	1	43' - 10"		66	STR		
S632E	1	44' - 6"		67	STR		
S633E	1	45' - 3"		68	STR		
S634E	1	46' - 0"		70	STR		
S635E	1	46' - 9"		71	STR		
S636E	1	47' - 6"		72	STR		
S637E	1	48' - 4"		73	STR		
S638E	1	49' - 2"		74	STR		
S639E	14	34' - 0"		715	STR		
TOTAL DECK SLAB 0 LB UNCOATED AND 27359 LB EPOXY COATED REINFORCING STEEL BARS.							
PARAPET REINFORCING							
P301E	400	3' - 3"		489	BENT		
P401E	48	46' - 6"		1491	STR		
P501E	400	4' - 9"		1982	BENT		
P502E	400	5' - 5"		2260	BENT		
TOTAL DECK BARRIER 0 LB UNCOATED AND 6222 LB EPOXY COATED REINFORCING STEEL BARS.							
TOTAL DECK SLAB AND DECK BARRIER 0 LB UNCOATED AND 33581 LB EPOXY COATED REINFORCING STEEL BARS.							



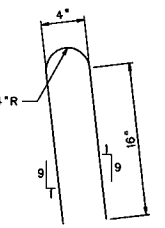
TYPE 8



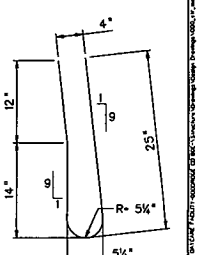
TYPE 9



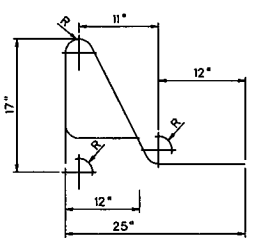
TYPE 20



EP301E



EP501E



EP502E R - 1⅞"

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

DODDRIDGE COUNTY BOARD OF EDUCATION

DODDRIDGE COUNTY PRE-K ACCESS BRIDGE

DECK SLAB PLAN

SHEET B- OF B- 53

BRIDGE NO. 1797. 2

THRASHER

320 ASSOCIATION DRIVE CHARLESTON, WV 25311 www.thethrashergroup.com

PHONE (304)343-7801 FAX (304)343-7804

		DATE
DESIGNED	RLC	08/20
DRAWN	SCH	08/20
CHECKED		
CHECKED		

TOP OF DECK ELEVATIONS

	ABUT 1	SPAN 1									ABUT 2
	CL BRG	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	CL BRG
LEFT FASCIA	785.88	785.94	785.92	785.86	785.79	785.73	785.66	785.60	785.53	785.47	785.40
LEFT GUTTER	785.88	785.94	785.92	785.86	785.79	785.73	785.66	785.60	785.53	785.47	785.40
GIRDER A	785.92	785.95									
GIRDER B	786.09	786.02	785.96	785.89	785.83	785.76	785.70	785.63	785.57	785.50	785.44
GIRDER C	786.28	786.21	786.15	786.08	786.02	785.95	785.89	785.82	785.76	785.69	785.63
CENTERLINE	786.37	786.31	786.24	786.18	786.11	786.05	785.98	785.92	785.85	785.79	785.72
GIRDER D	786.28	786.21	786.15	786.08	786.02	785.95	785.89	785.82	785.76	785.69	785.63
GIRDER E	786.09	786.02	785.96	785.89	785.83	785.76	785.70	785.63	785.57	785.50	785.44
GIRDER F	785.92	785.95									
RIGHT GUTTER	785.88	785.94	785.92	785.86	785.79	785.73	785.66	785.60	785.53	785.47	785.40
RIGHT FASCIA	785.88	785.94	785.92	785.86	785.79	785.73	785.66	785.60	785.53	785.47	785.40

* All tenth points are taken perpendicular to the centerline of the bridge.

PUBLIC ROADS CLASS.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
W. V.	9	S345 -33/2- 2.34 88	NFA-2417 (825)0	2020	DODDRIDGE		81

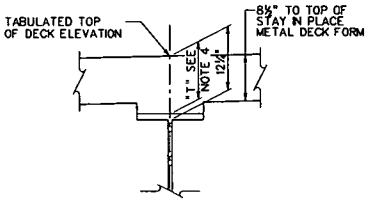
NOTES:

1. ELEVATIONS ARE MEASURED AT TENTH POINTS AND FIELD SPLICE LOCATIONS ALONG EACH LONGITUDINAL ELEMENT AND GIVEN IN FEET.

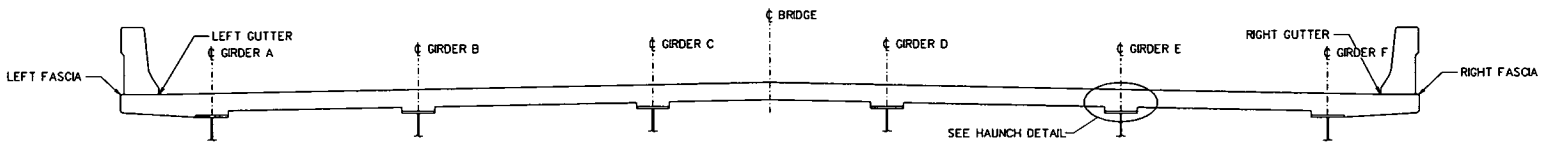
2. ELEVATIONS SHOWN ARE FINISHED ROADWAY (BRIDGE DECK) ELEVATIONS.

3. FOR DECK CROSS SLOPE AND SUPERELEVATION TRANSITION DETAILS, SEE ROADWAY PLANS.

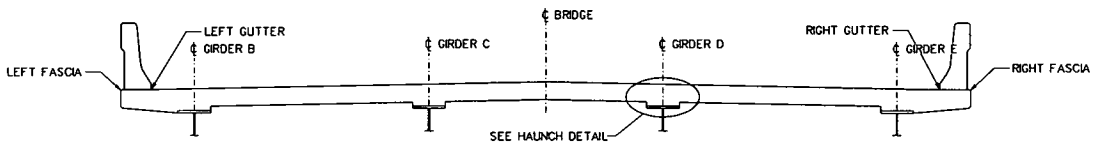
4. AFTER ALL GIRDERS HAVE BEEN ERECTED AND FALSE WORK REMOVED, THE CONTRACTOR SHALL TAKE ELEVATIONS ALONG TOP OF THE GIRDER AT POINTS WHERE THE DECK ELEVATIONS ARE SHOWN. THE DIFFERENCE BETWEEN THESE ELEVATIONS AND THE DECK ELEVATIONS, PLUS THE SUM OF THE DECK AND BARRIER CONCRETE DEAD LOAD DEFLECTIONS WILL BE THE FINISHED THICKENSS OF THE DECK. THE MINIMUM TOTAL DECK THICKNESS (T) OVER THE GIRDERS SHALL NOT BE LESS THAN 12 ¼" - (TOP FLANGE THICKNESS) AT THE CENTER OF THE WEB. IF THE GIRDER HAS EXCESSIVE CAMBER AND THE MINIMUM CANNOT BE OBTAINED, THE ROADWAY GRADE SHALL BE ADJUSTED TO OBTAIN THIS THICKNESS.



HAUNCH DETAIL
SCALE: NOT TO SCALE



TYPICAL SECTION AT ABUTMENT 1
(LOOKING AHEAD STATION)
SCALE: NOT TO SCALE



TYPICAL SECTION AT ABUTMENT 2
(LOOKING AHEAD STATION)
SCALE: NOT TO SCALE

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

DODDRIDGE COUNTY BOARD OF EDUCATION

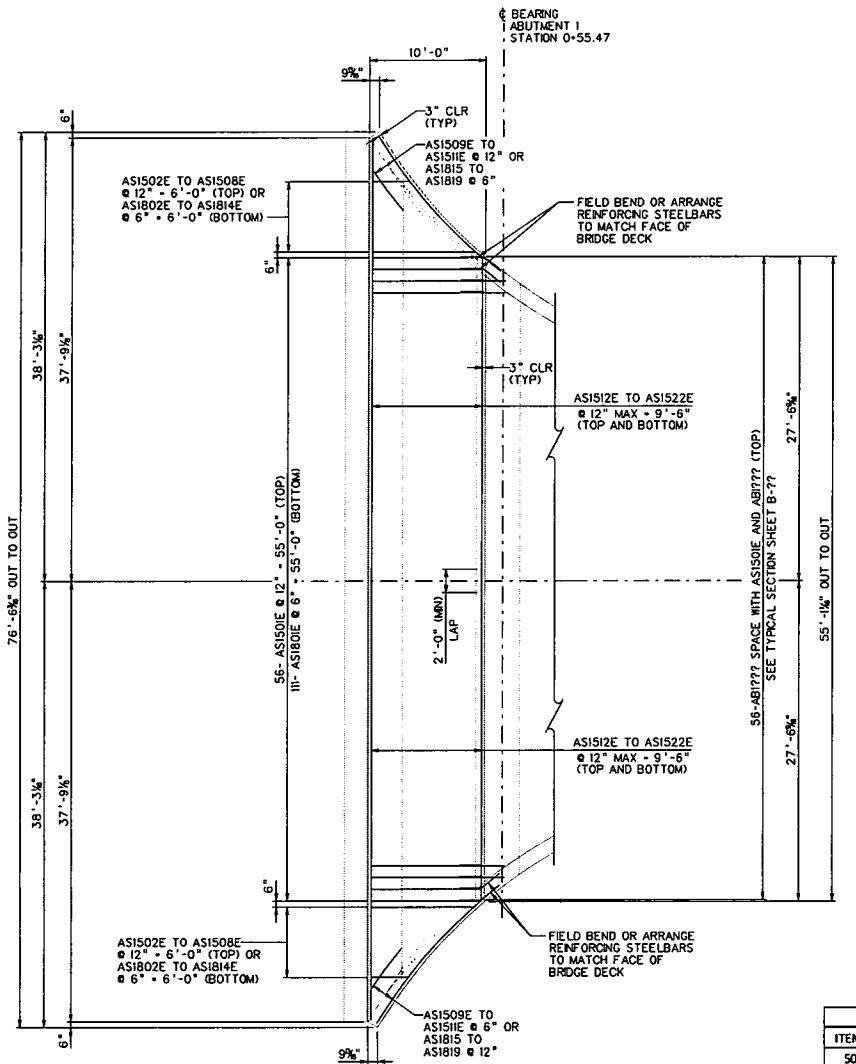
DODDRIDGE COUNTY PRE-K ACCESS BRIDGE

DECK ELEVATIONS AND DEFLECTIONS

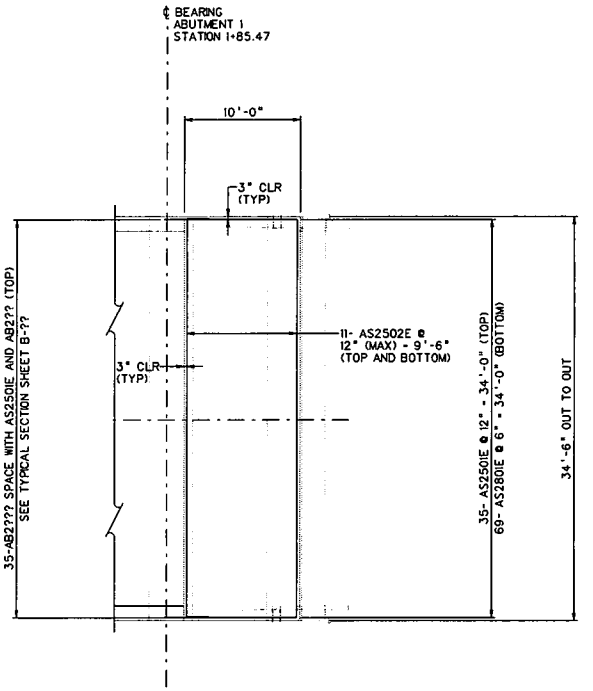
SHEET B- OF B-53
BRIDGE NO. 1797. 2

		DESIGNED	DATE
THRASHER		RLC	08/20
300 ASSOCIATION DRIVE CHARLESTON, WV 25311		DRAWN	
www.thrashergroup.com		SCH	08/20
PHONE (304)343-7801	FAX (304)343-7804	CHECKED	
		CHECKED	

PUBLIC ROADS OFF.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
W. V.	9	S345 -33/2- 2.34 00	NFA-2417 (025)0	2020	DODDRIDGE		81



APPROACH SLAB ABUTMENT 1
SCALE: ⅜" = 1'-0"



APPROACH SLAB ABUTMENT 2
SCALE: ⅜" = 1'-0"

APPROACH SLAB QUANTITIES					
ITEM NUMBER	DESCRIPTION	UNITS	ABUTMENT 1	ABUTMENT 2	TOTAL
502001-012	12" PORTLAND CEMENT CONC. APPR. SLAB	SY	73	39	112
*	REINFORCEMENT STEEL BARS (EPOXY)	LB	5676	2879	8555
*	CLASS B CONCRETE	CY	25	13	38
*ITEM IS INCIDENTAL TO 502001-012					

NOTES:
1. FOR REINFORCING SCHEDULE AND NOTES, SEE SHEET B-??.
2. FOR APPROACH BARRIER DETAILS, SEE SHEET B-??.
3. FOR SLEEPER SLAB DETAILS, SEE SHEET B-??.

THRASHER
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FAX (304)343-7604

	DESIGNED	DATE
	RLC	08/20
	DRAWN	
	SCN	08/20
	CHECKED	
	CHECKED	

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

DODDRIDGE COUNTY BOARD OF EDUCATION

DODDRIDGE COUNTY PRE-K ACCESS BRIDGE

APPROACH SLAB PLAN

SHEET B- OF B-53
BRIDGE NO. 1797.2

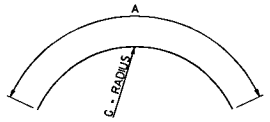
PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
W. V.	9	S345 -33/2- 2.34 00	NFA-2417 (025)D	2020	DODDRIDGE		81

APPROACH SLAB ABUTMENT 1

MARK	No.	LENGTH	WEIGHT (lb) UNCOATED	WEIGHT (lb) EPOXY COATED	TYPE	A	B	C	D	G
AS1501E	56	9' - 6"		555	STR					
AS1502E	2	8' - 10"		19	STR					
AS1503E	2	7' - 9"		17	STR					
AS1504E	2	6' - 9"		15	STR					
AS1505E	2	5' - 9"		12	STR					
AS1506E	2	4' - 11"		11	STR					
AS1507E	2	4' - 0"		9	STR					
AS1508E	2	3' - 3"		7	STR					
AS1509E	2	13' - 11"		30	20	13'-11"				44'-0"
AS1510E	2	6' - 8"		14	20	6'-8"				45'-0"
AS1511E	2	4' - 5"		10	20	4'-5"				46'-0"
AS1512E	4	28' - 6"		119	STR					
AS1513E	4	29' - 3"		123	STR					
AS1514E	4	30' - 2"		126	STR					
AS1515E	4	31' - 1"		130	STR					
AS1516E	4	32' - 1"		134	STR					
AS1517E	4	33' - 2"		139	STR					
AS1518E	4	34' - 3"		143	STR					
AS1519E	4	35' - 6"		149	STR					
AS1520E	4	36' - 9"		154	STR					
AS1521E	4	38' - 3"		160	STR					
AS15Z2E	4	38' - 9"		162	STR					
AS1801E	111	9' - 6"		2816	STR					
AS1802E	2	8' - 10"		48	STR					
AS1803E	2	8' - 4"		45	STR					
AS1804E	2	7' - 9"		42	STR					
AS1805E	2	7' - 3"		39	STR					
AS1806E	2	6' - 9"		37	STR					
AS1807E	2	6' - 3"		34	STR					
AS1808E	2	5' - 9"		31	STR					
AS1809E	2	5' - 4"		29	STR					
AS1810E	2	4' - 11"		27	STR					
AS1811E	2	4' - 5"		24	STR					
AS1812E	2	4' - 0"		22	STR					
AS1813E	2	3' - 8"		20	STR					
AS1814E	2	3' - 3"		18	STR					
AS1815E	2	13' - 11"		75	20	13'-11"				44'-0"
AS1816E	2	7' - 8"		41	20	7'-8"				44'-6"
AS1817E	2	6' - 8"		36	20	6'-8"				45'-0"
AS1818E	2	5' - 6"		30	20	5'-6"				45'-6"
AS1819E	2	4' - 5"		24	20	4'-5"				46'-0"
TOTAL APPROACH SLAB AT ABUTMENT 1 0 LB UNCOATED AND 5676 LB EPOXY COATED REINFORCING STEEL BARS.										

APPROACH SLAB ABUTMENT 2

MARK	No.	LENGTH	WEIGHT (lb) UNCOATED	WEIGHT (lb) EPOXY COATED	TYPE	A	B	C	D	G
AS2501E	35	9' - 6"		347	STR					
AS2502E	22	34' - 0"		781	STR					
AS2801E	69	9' - 6"		1751	STR					
TOTAL APPROACH SLAB AT ABUTMENT 2 0 LB UNCOATED AND 2879 LB EPOXY COATED REINFORCING STEEL BARS.										
TOTAL FOR APPROACH SLABS AT ABUTEMNT 1 AND ABUTMENT 2 0 LB UNCOATED AND 8555 LB EPOXY COATED REINFORCING STEEL BARS.										



TYPE 20

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

DODDRIDGE COUNTY BOARD OF EDUCATION

DODDRIDGE COUNTY PRE-K ACCESS BRIDGE

APPROACH SLAB REINFORCING SCHEDULE

SHEET B- OF B-53

BRIDGE NO. 1797. 2

DESIGNED	RLC	08/20
DRAWN	EGN	08/20
CHECKED		
CHECKED		

THRASHER
300 ASSOCIATION DRIVE
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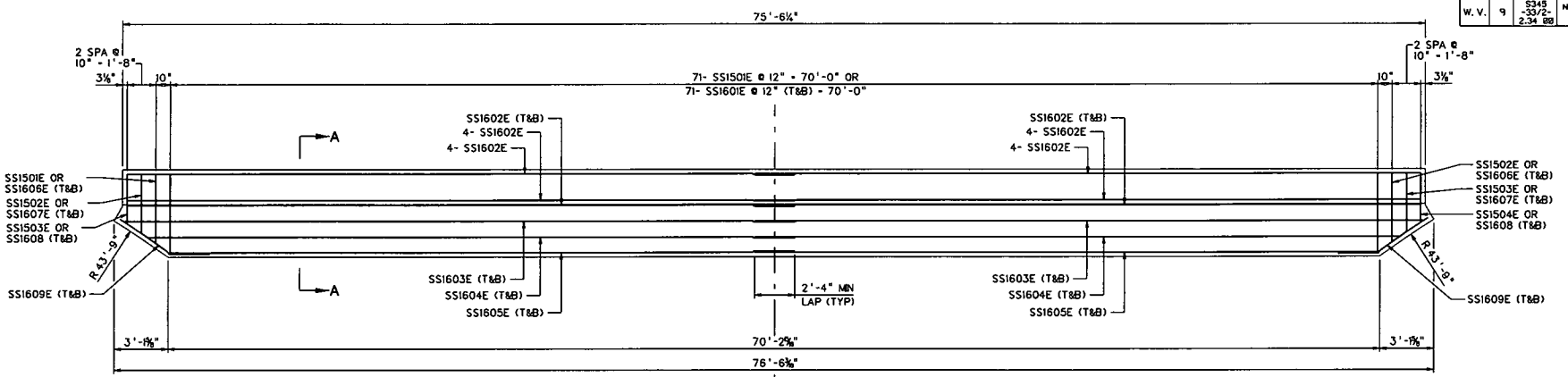
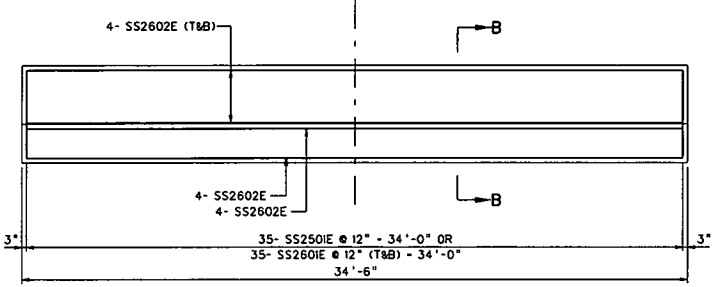
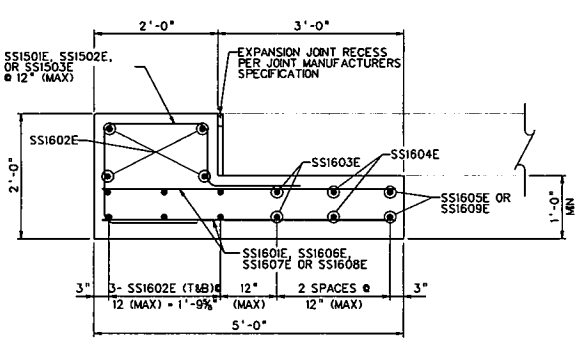
PUBLIC ROADS OPT.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
W. V.	9	S345 -33/2- 2.34 00	NFA-2417 (025)D	2020	DODDRIDGE		81



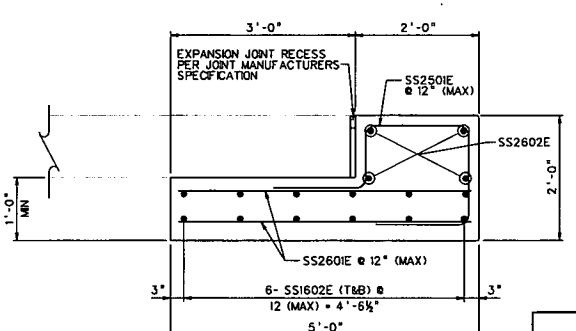
SLEEPER SLAB ABUTMENT 1
SCALE: NOT TO SCALE



SLEEPER SLAB ABUTMENT 2
SCALE: NOT TO SCALE



SECTION A-A
SCALE: 1" = 1'-0"



SECTION B-B
SCALE: 1" = 1'-0"

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

DODDRIDGE COUNTY BOARD OF EDUCATION

DODDRIDGE COUNTY PRE-K ACCESS BRIDGE

SLEEPER SLAB PLAN

SHEET B- OF B-53

BRIDGE NO. 1797. 2

THRASHER
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CHARLESTON, WV 25311
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www.thethrashergroup.com

		DATE
DESIGNED	RLC	08/20
DRAWN	SDM	08/20
CHECKED		
CHECKED		

PUBLIC ROADS CITY.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
W. V.	9	S345 -33/2- 2.34 88	NFA-2417 (025)0	2020	DODDRIDGE		81

SLEEPER SLAB ABUTMENT 1

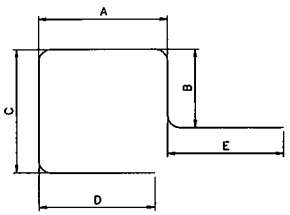
MARK	No.	LENGTH	WEIGHT (lb)		TYPE	A	B	C	D	E	G
			UNCOATED	EPOXY COATED							
SS1501E	73	7' - 4"		559	5	1'-10"	1'-0"	1'-6"	1'-6"	1'-6"	
SS1502E	2	7' - 2"		15	5	1'-10"	1'-0"	1'-6"	1'-6"	1'-4"	
SS1503E	2	6' - 11"		15	5	1'-10"	1'-0"	1'-6"	1'-6"	1'-1"	
SS1601E	142	4' - 6"		960	STR						
SS1602E	20	38' - 9"		1165	STR						
SS1603E	4	38' - 11"		234	STR						
SS1604E	4	37' - 6"		226	STR						
SS1605E	4	36' - 3"		218	STR						
SS1606E	4	3' - 11"		24	STR						
SS1607E	4	3' - 5"		21	STR						
SS1608E	4	2' - 10"		18	STR						
SS1609E	4	5' - 10"		36	19	3'-6"	2'-4"	144.79°			
TOTAL SLEEPER SLAB AT ABUTMENT 1 0 LB UNCOATED AND 3491 LB EPOXY COATED REINFORCING STEEL BARS.											

SLEEPER SLAB ABUTMENT 2

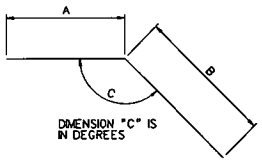
MARK	No.	LENGTH	WEIGHT (lb)		TYPE	A	B	C	E	D	G
			UNCOATED	EPOXY COATED							
SS2501E	35	7' - 4"		268	5	1'-10"	1'-0"	1'-6"	1'-6"	1'-6"	
SS2601E	70	4' - 6"		474	STR						
SS2602E	16	34' - 0"		818	STR						
TOTAL SLEEPER SLAB AT ABUTMENT 2 0 LB UNCOATED AND 1560 LB EPOXY COATED REINFORCING STEEL BARS.											
TOTAL FOR SLEEPER SLABS AT ABUTEMNT 1 AND ABUTMENT 2 0 LB UNCOATED AND 5051 LB EPOXY COATED REINFORCING STEEL BARS.											

SLEEPER SLAB QUANTITIES

DESCRIPTION	UNITS	ABUTMENT 1	ABUTMENT 2	TOTAL
CONCRETE	CY	20	10	30
EXPANSION JOINT	LF	76	35	111



TYPE 5



TYPE 19

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

DODDRIDGE COUNTY BOARD OF EDUCATION

DODDRIDGE COUNTY PRE-K ACCESS BRIDGE

SLEEPER SLAB REINFORCING SHEDULE

SHEET B- OF B-53

BRIDGE NO. 1797. 2

THRASHER

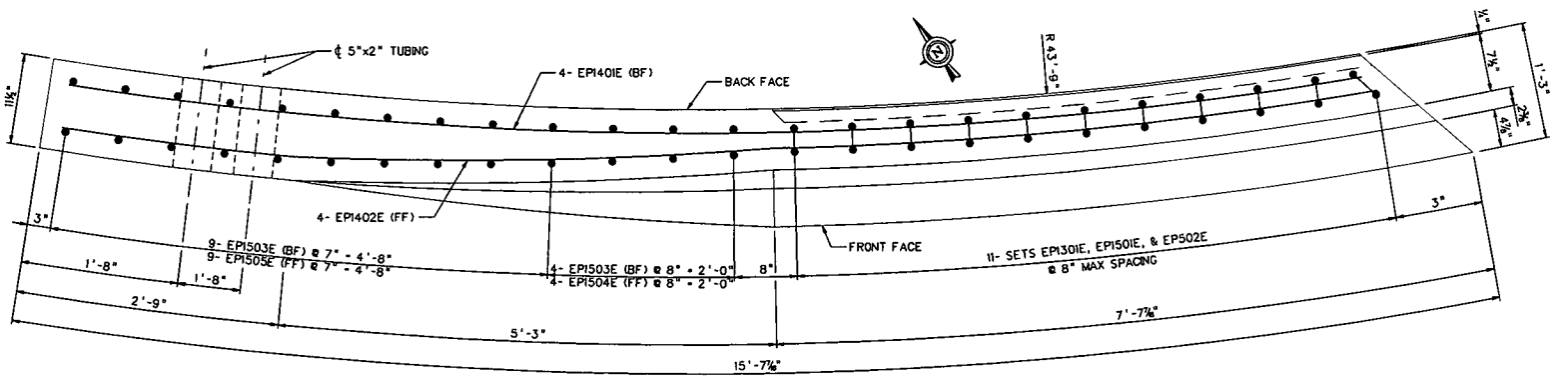
300 ASSOCIATION DRIVE
CHARLESTON, WV 25311
www.thethrashergroup.com

PHONE (304)343-7801

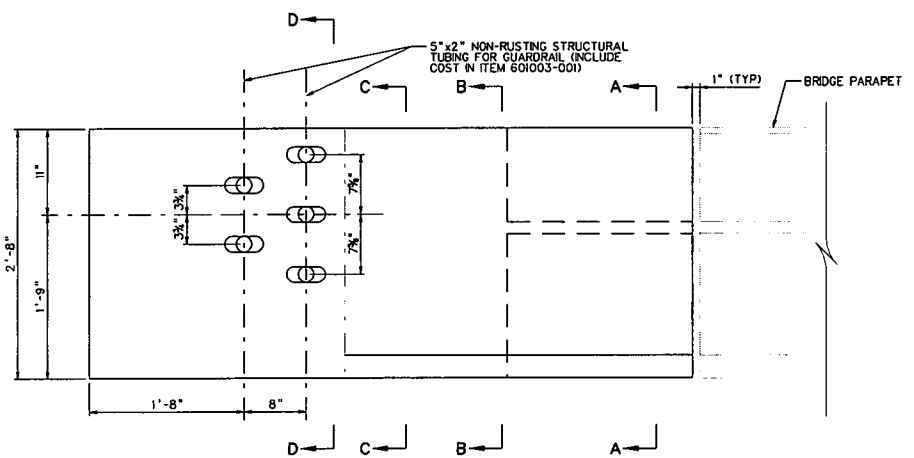
FAX (304)343-7804

		DATE
DESIGNED	RLC	08/20
DRAWN	SCH	08/20
CHECKED		
CHECKED		

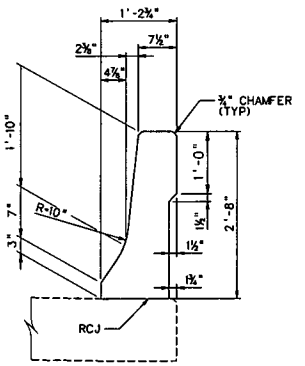
PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
W. V.	9	S345 -33/2- 2.34 (B)	NFA-2417 (025)D	2020	DODDRIDGE		81



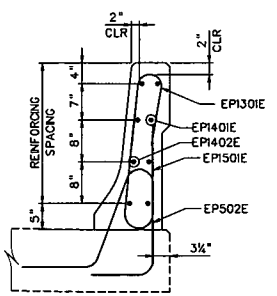
APPROACH SLAB BARRIER PLAN
SCALE: 1½" = 1'-0"



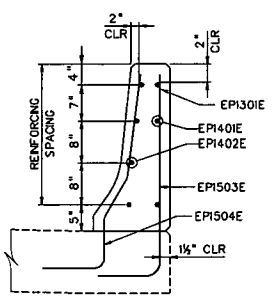
APPROACH SLAB BARRIER ELEVATION
SCALE: 1½" = 1'-0"
(NOT TO SCALE HORIZONTALLY)



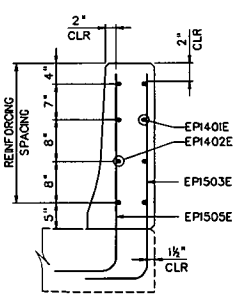
DIMENSIONS
SCALE: 1" = 1'-0"



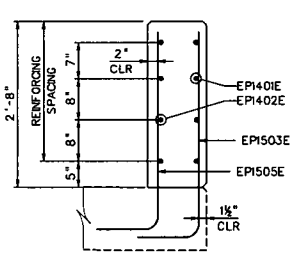
SECTION A-A
SCALE: 1" = 1'-0"



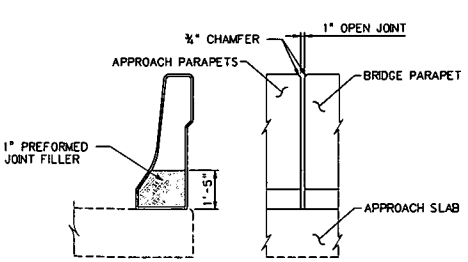
SECTION B-B
SCALE: 1" = 1'-0"



SECTION C-C
SCALE: 1" = 1'-0"



SECTION D-D
SCALE: 1" = 1'-0"



PARAPET JOINT
SCALE: NOT TO SCALE

NOTES:
1. BARS EP1502E, EP1503E, EP1504E AND EP505E SHALL BE PLACED WITH APPROACH SLAB CONCRETE.
2. FOR THRIE BEAM CONNECTION DETAILS, SEE WVDOH STANDARD DETAILS, VOLUME 1.
3. FIELD BEND EP1401E AND EP1402E TO MATCH FACE OF BARRIER TRANSITION.

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

DODDRIDGE COUNTY BOARD OF EDUCATION

DODDRIDGE COUNTY PRE-K ACCESS BRIDGE

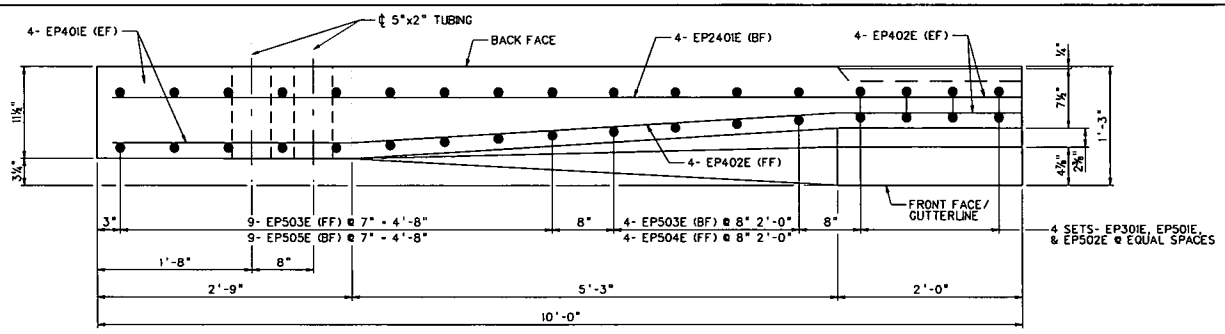
BARRIER TRANSITION ABUBUTMENT 1

SHEET B- OF B-53
BRIDGE NO. 1797.2

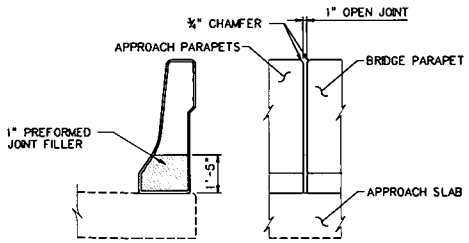
THRASHER
300 ASSOCIATION DRIVE
CHARLESTON, WV 25311
PHONE (304)343-7801
www.thrashergroup.com
FAX (304)343-7804

DESIGNED	DATE
RLC	08/20
DRAWN	
SCM	08/20
CHECKED	
CHECKED	

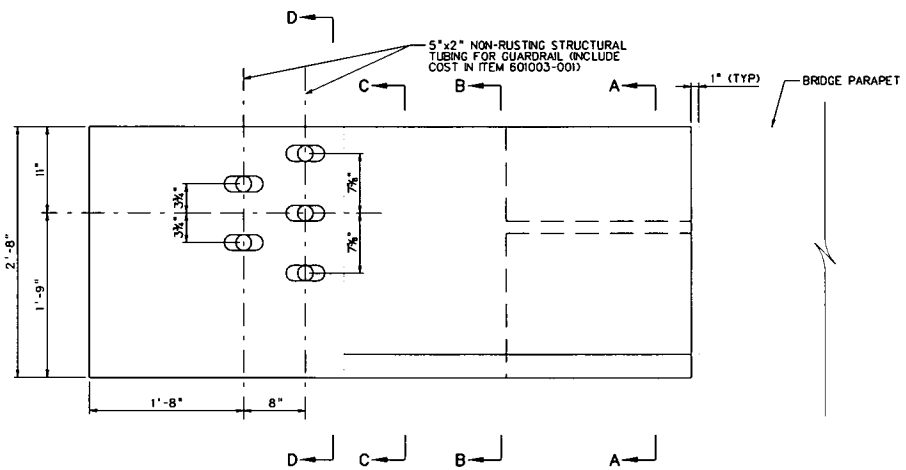
PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
W. V.	9	S345 -33/2- 2.34 88	NFA-2417 (025)D	2020	DODDRIDGE	60	81



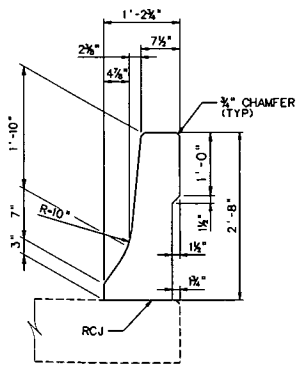
APPRAOCH SLAB BARRIER PLAN
SCALE: 1½" = 1'-0"



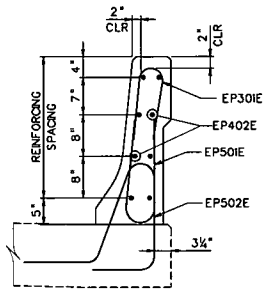
PARAPET JOINT
SCALE: NOT TO SCALE



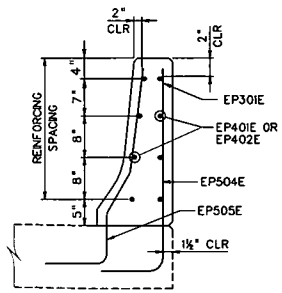
APPROACH SLAB BARRIER ELEVATION
SCALE: 1½" = 1'-0"
(NOT TO SCALE HORIZONTALLY)



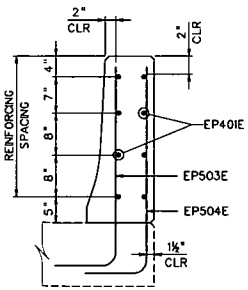
DIMENSIONS
SCALE: 1" = 1'-0"



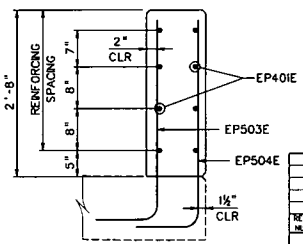
SECTION A-A
SCALE: 1" = 1'-0"



SECTION B-B
SCALE: 1" = 1'-0"



SECTION C-C
SCALE: 1" = 1'-0"



SECTION D-D
SCALE: 1" = 1'-0"

NOTE:
1. BARS EP502E, EP503E, EP504E AND EP505E SHALL BE PLACED WITH APPROACH SLAB CONCRETE.

2. FOR THRIE BEAM CONNECTION DETAILS, SEE WVDOH STANDARD DETAILS, VOLUME 1.

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

DODDRIDGE COUNTY BOARD OF EDUCATION

DODDRIDGE COUNTY PRE-K ACCESS BRIDGE

BARRIER TRANSITION ABUTMENT 2

DESIGNED	DATE
RLC	08/20
DRAWN	
BCH	08/20
CHECKED	
CHECKED	

THRASHER
300 ASSOCIATION DRIVE
CHARLESTON, WV 25311
www.thethrashergroup.com
PHONE (304)343-7601
FAX (304)343-7604

SHEET B-44 OF B-53
BRIDGE NO. 1797.2

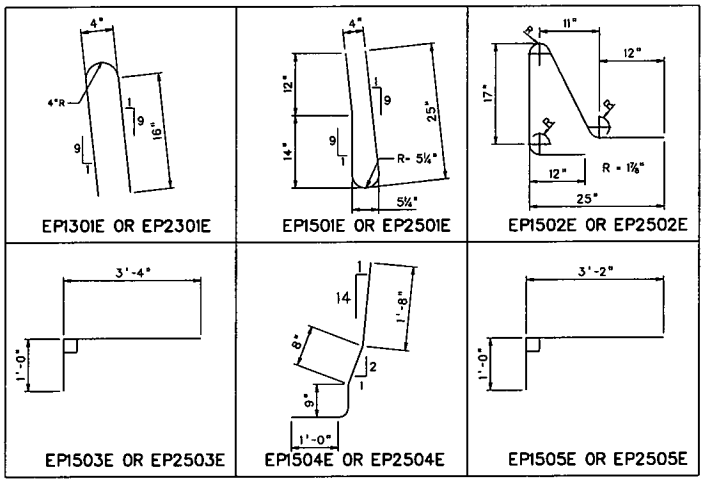
PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
W. V.	9	S345 -33/2- 2.34 00	NFA-2417 (025)D	2020	DODDRIDGE		61

BARRIER TRANSITION ABUTMENT 1

MARK	No.	LENGTH	WEIGHT (lb)		TYPE
			UNCOATED	EPOXY COATED	
EP1301E	22	3' - 3"		27	BENT
EP1401E	8	14' - 1"		76	STR
EP1402E	8	14' - 4"		77	STR
EP1501E	22	4' - 9"		109	BENT
EP1502E	22	5' - 5"		125	BENT
EP1503E	26	4' - 4"		118	BENT
EP1504E	8	4' - 1"		35	BENT
EP1505E	18	4' - 2"		79	BENT
TOTAL BARRIER TRANSITION AT ABUTMENT 1 0 LB UNCOATED AND 646 LB EPOXY COATED REINFORCING STEEL BARS.					

BARRIER TRANSITION ABUTMENT 2

MARK	No.	LENGTH	WEIGHT (lb)		TYPE
			UNCOATED	EPOXY COATED	
EP2301E	8	3' - 3"		10	BENT
EP2401E	8	9' - 10"		53	STR
EP2402E	8	9' - 11"		53	STR
EP2501E	8	4' - 9"		40	BENT
EP2502E	8	5' - 5"		46	BENT
EP2503E	26	4' - 4"		118	BENT
EP2504E	8	4' - 1"		35	BENT
EP2505E	18	4' - 2"		79	BENT
TOTAL BARRIER TRANSITION AT ABUTMENT 2 0 LB UNCOATED AND 434 LB EPOXY COATED REINFORCING STEEL BARS.					
TOTAL FOR BARRIER TRANSITION AT ABUTEMNT 1 AND ABUTMENT 2 0 LB UNCOATED AND 1080 LB EPOXY COATED REINFORCING STEEL BARS.					



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

DODDRIDGE COUNTY BOARD OF EDUCATION

DODDRIDGE COUNTY PRE-K ACCESS BRIDGE

BARRIER TRANSITION REINFORCING SCHED

SHEET B- OF B-53

BRIDGE NO. 1797. 2

THRASHER

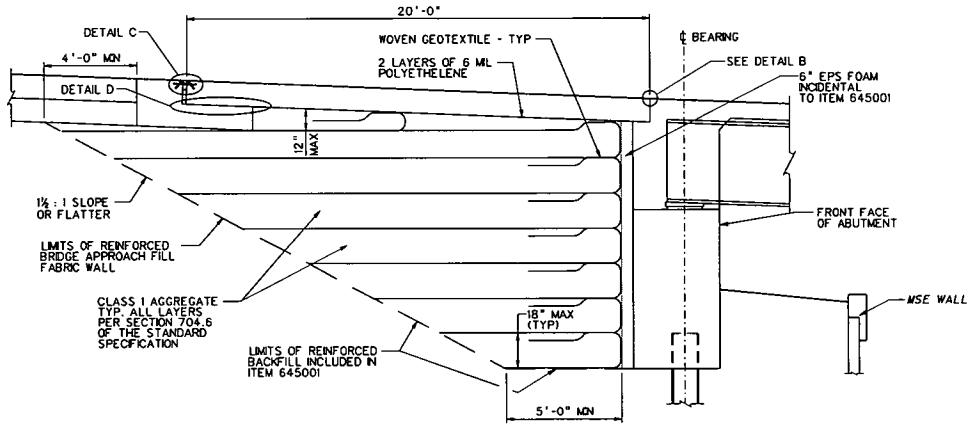
300 ASSOCIATION DRIVE
CHARLESTON, WV 25311
www.thethrashergroup.com

PHONE (304)343-7601

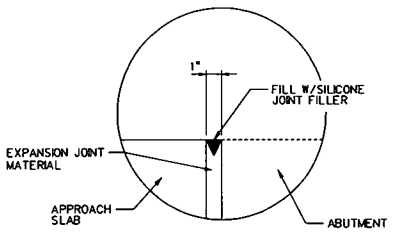
FAX (304)343-7604

		DATE
DESIGNED	RLC	08/20
DRAWN	SCN	08/20
CHECKED		
CHECKED		

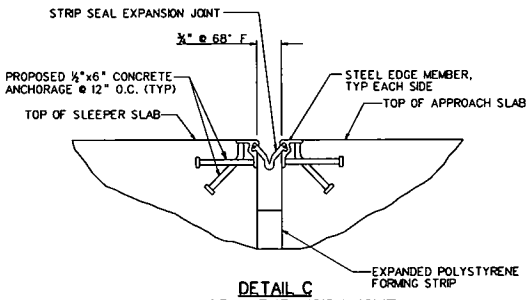
PUBLIC ROADS DIV.	STATE DIST. NO.	STATE PROJECT NO.	FEDERAL PROJECT NO.	FISCAL YEAR	COUNTY	SHEET NO.	TOTAL SHEETS
W. V.	9	S345 -33/2- 2.34 00	NFA-2417 (025)0	2020	DODDRIDGE	112	81



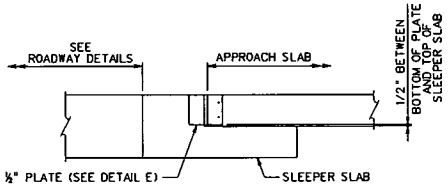
TYPICAL
ABUTMENT 1 SHOWN, ABUTMENT 2 SIMILAR
NTS



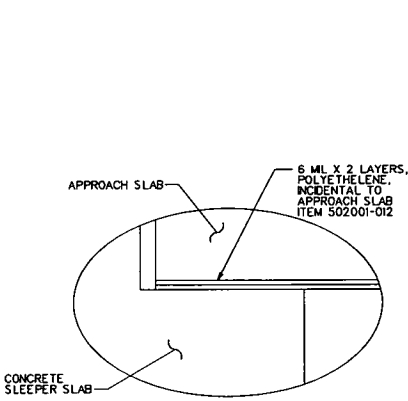
DETAIL B



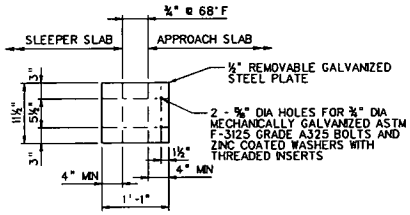
DETAIL C
STRIP SEAL EXPANSION JOINT



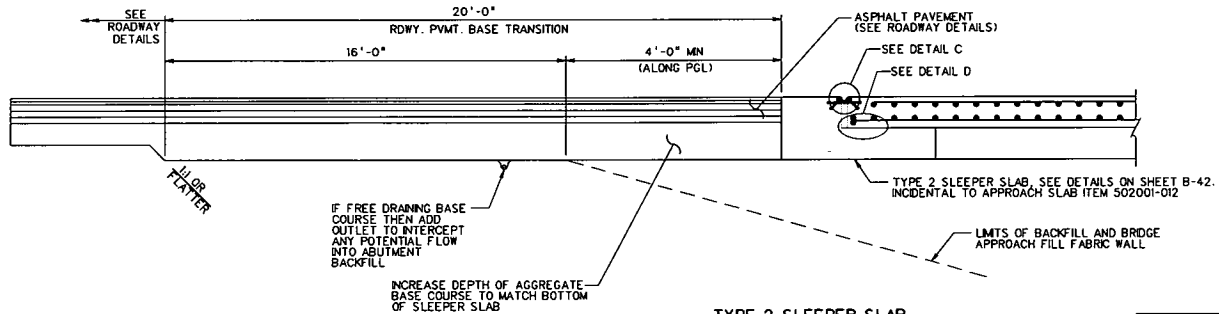
EXPANSION JOINT
STEEL CLOSURE DETAIL



DETAIL D



DETAIL E
EXPANSION JOINT END COVER PLATE



TYPE 2 SLEEPER SLAB
ASPHALT ROADWAY APPROACHES
NTS

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

DODDRIDGE COUNTY BOARD OF EDUCATION

DODDRIDGE COUNTY PRE-K ACCESS BRIDGE

APPROACH SLAB DETAILS 1 OF 2

SHEET B-71 OF B-53
BRIDGE NO. 1797. 2

DESIGNED	RLC	08/20
DRAWN	SGN	08/20
CHECKED	RLC	04/20
CHECKED		

THRASHER
300 ASSOCIATION DRIVE
CHARLESTON, WV 25311
www.thethrashergroup.com
PHONE (304)343-7801
FAX (304)343-7604

PERMIT NUMBER: _____

LOCATION

COUNTY Doddridge ROUTE WV (SLS, WV, US) 18 (ROUTE) MP 19.048

COORDINATES N 39.289833 W -80.771790 ON THE N S (E) W SIDE OF ROAD

APPROACH

DRIVEWAY WIDTH 20' GRADE -2 % PIPE REQUIRED Y (N) IF YES; SIZE ____

DRIVEWAY CONSTRUCTION METHOD: STONE ASPHALT (CONCRETE) OTHER: ____

COUNTY ROUTE

SPEED LIMIT 25 OR SAFE SPEED LIMIT ____ LANE WIDTH 11.5 each

SIGHT DISTANCE (N) E 623' 4% Downgrade 460' toward SO Before to Rest 623' Rest to overpass

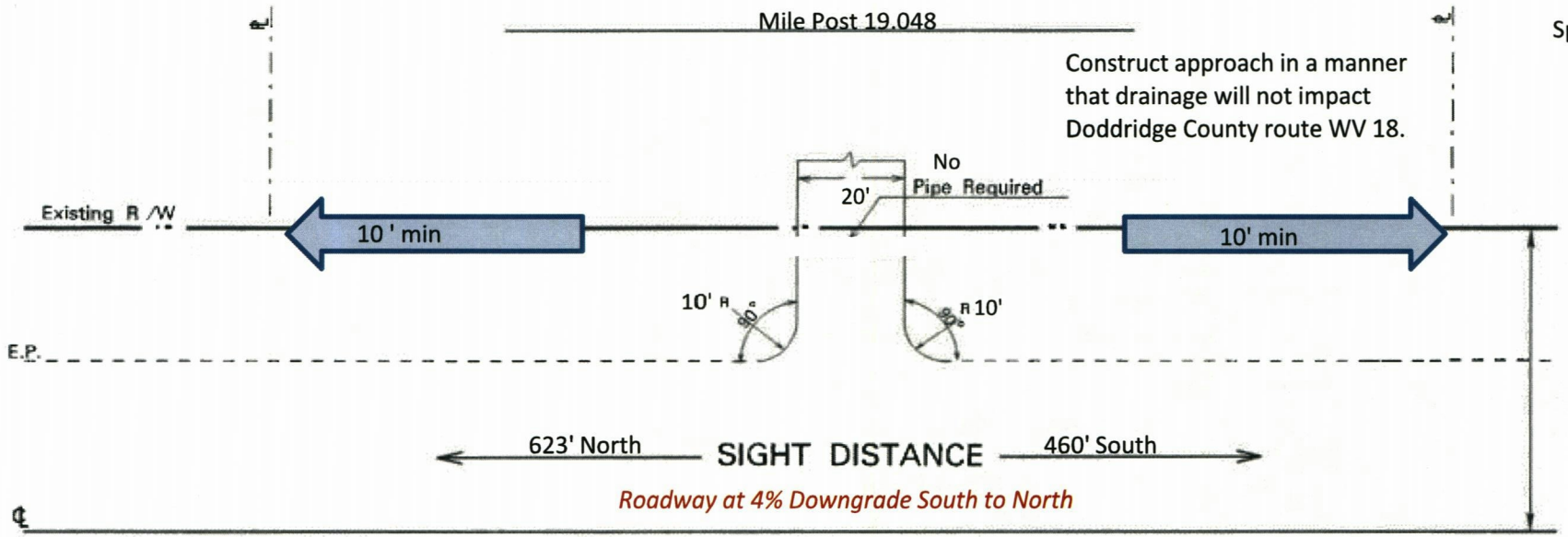
SIGHT DISTANCE (S) W 460

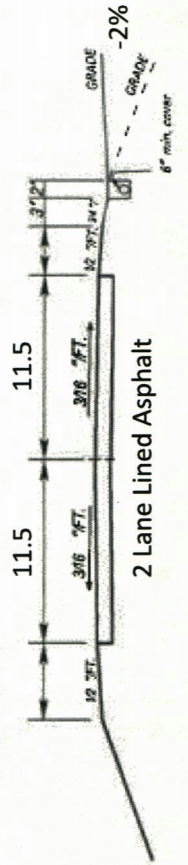
NEAREST INTERSECTION

LOCATED 0.268 MILES (N) S E W OF US (SLS, WV, US) 50 (ROUTE)

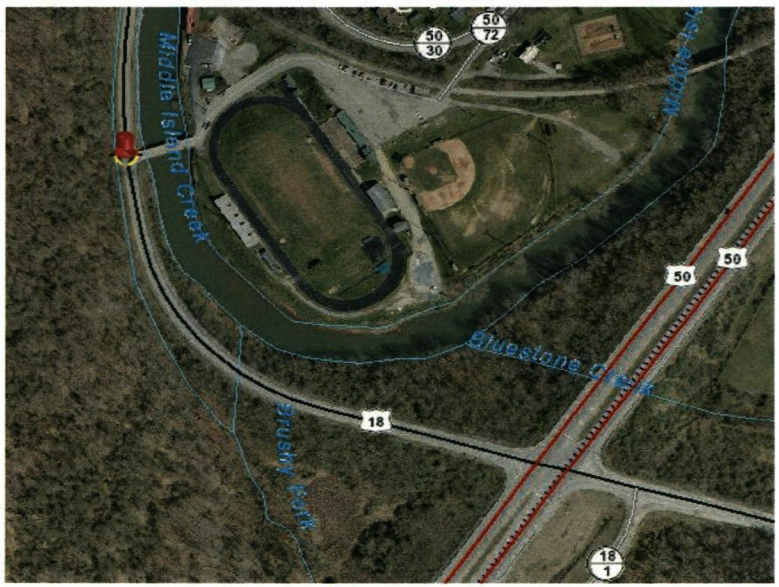
NOTES:

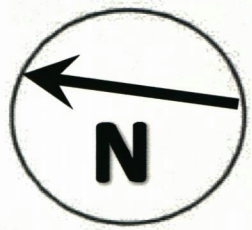
103 Sistersville Pike West Union, WV 26456





CONSTRUCTION METHOD	Concrete
APPLICANT:	Doddridge County Board of Education
ADDRESS:	103 Sistersville Pike West Union, WV 26456
To construct and maintain a 20' *approach on the* East *side of Route* WV 18 *approximately* 0.268 Miles North *of Junction Route* US 50 . *Sight distance is* 623 *ft.* North *and* 460 *ft.* South . No *drainage vessel required.*	
D.O.H. PERMIT #	04-2020-0849
BOND	





NORTH ARROW

SOUTH

NORTH

David Alexander

PERMIT NUMBER: _____

LOCATION

COUNTY Doddridge ROUTE WV (SLS, WV, US) 18 (ROUTE) MP 19.048

COORDINATES N 39.289833

W - 80.771790 ON THE N S (E) W SIDE OF ROAD

Right

APPROACH

DRIVEWAY WIDTH 20' GRADE -2 % PIPE REQUIRED Y (N) IF YES; SIZE ____

DRIVEWAY CONSTRUCTION METHOD: STONE ASPHALT (CONCRETE) OTHER: ____

COUNTY ROUTE

SPEED LIMIT 25 OR SAFE SPEED LIMIT ____ LANE WIDTH 11.5 each

SIGHT DISTANCE (N) E 623'

SIGHT DISTANCE (S) W 460

4% Downgrade 460' downward SD Before to Past 623' Past to Be overpass

NEAREST INTERSECTION

LOCATED 0.268 MILES (N) S E W OF US (SLS, WV, US) 50 (ROUTE)

NOTES:

103 Sistersville Pike West Union, WV 26456

FORM PJ-116

DISTRICT 4

DATE 2002

TOTAL MILES 26.97

ORIGINAL

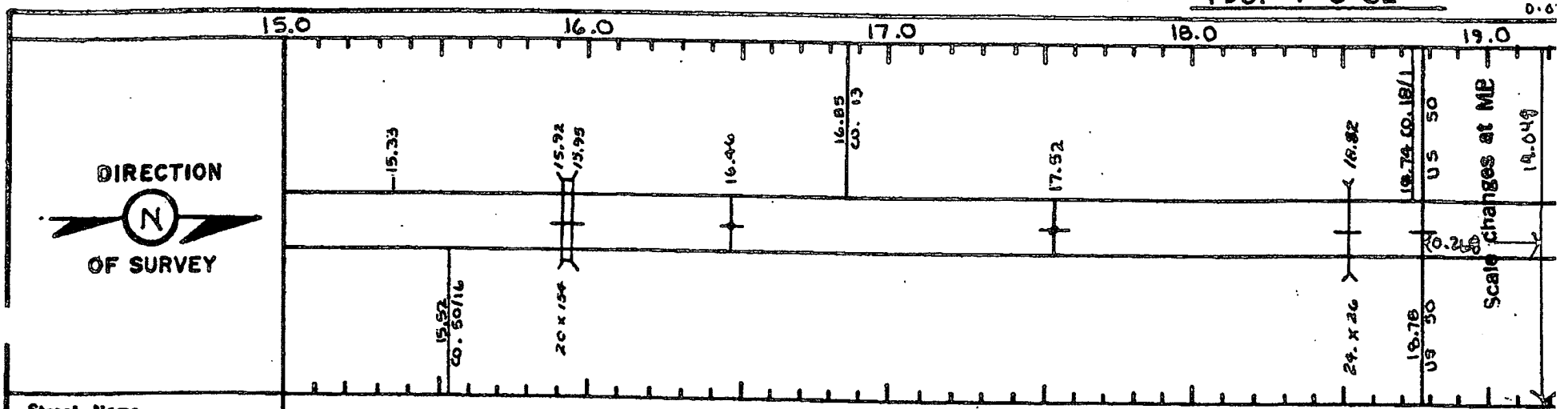
WEST VIRGINIA DEPARTMENT OF HIGHWAYS
PLANNING DIVISION
STATE ROUTE STRAIGHT LINE DIAGRAM

COUNTY

ROUTE NO.

SHEET NO.

PDU. 4-B-02



Street Name							
Federal Designation				FAS 18			
Control Section Number							
Project Number	3404-A			2256	3364		
Subsection Identification	14.26	15.92	15.95	16.46	17.52	18.52	18.78
Subsection Length	1.66	0.03	0.51	1.06	1.00	0.26	0.07
Surface Type & Widths	11-18-30	11-20-26	11-18-30	11-20-26	11-18-30	11-18-30	12-24-40
Last Improvement	120# HLBC 1992	110# HLBC 1991					
A.D.T. Year							16

19—	
Subsection Identification	
Subsection Length	
Surface Type & Widths	

19—	
Subsection Identification	
Subsection Length	
Surface Type & Widths	

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 (8th) of (October), 2020, (Doddridge County Board of Education) filed an application for a Floodplain Permit (#20-583) to develop land located at or about (69 C Stansberry Rd); Coordinates: 39.289528, -80.770311. 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 (November 9, 2020) (20 calendar days after the announcement at the regularly scheduled

was published in The Doddridge Independent
2 times commencing on Friday, October 16, 2020 and
Ending on Friday, October 23, 2020 at the request of:

George Eidel, Doddridge County Floodplain Manager& Doddridge County Commission

Given under my hand this Monday, October 26, 2020

The publisher's fee for said publication is:

$ 31.05 1st Run/$ 23.29 Subsequent Runs /
This Legal Ad Total: $ 54.34

Michael D. Zorn
Publisher of The Doddridge Independent

Subscribed to and sworn to before me on
this date: 10/26/20

Notary Public in and for Doddridge County
My Commission expires on
The 17th day of May 2024

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
PAMELA R STINESPRING
Summit Community Bank
251 Main Street
West Union, WV 26426
My Commission Expires May 17, 2024

Floodplain Public Notice • Legal Notice

Please take notice that on the (8th) of ~~(October)~~, 2020, (Doddridge County Board of Education) filed an application for a Floodplain Permit (#20-583) to develop land located at or about (69 C Stansberry Rd); Coordinates: 39.289528, -80.770311. 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 (November 9, 2020) (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 for the Early Childhood Academy project C2 10/16 - 10/23

INVOICE

The Herald Record LLC
177 MAIN STREET
WEST UNION,WV 26456
United States

Phone:304-873-1600
Fax: 304-666-1017
Mobile: 304-266-2247
TheHeraldRecord.com

Doddridge County OFFICE OF EMERGENCY MANAGEMENT
101 Church Street
West Union, West Virginia 26456
United States

Invoice Number: 2860
Invoice Date: October 21, 2020
Payment Due: October 21, 2020
Amount Due (USD): **$41.24**

Items	Quantity	Price	Amount
CLASS II LEGAL AD -- FLOOD PLAIN PERMIT #20-583 -- RUN DATES: 10/`4/20 & 10/21/20	1	$41.24	$41.24
		Total:	$41.24
		Amount Due (USD) :	**$41.24**

Doddridge County Floodplain Permits
(Week of October 12, 2020)

Please take notice that on the **(8th)** of **(OCTOBER), 2020, (DODDRIDGE COUNTY BOARD OF EDUCATION)** filed an application for a Floodplain Permit **(#20-583)** to develop land located at or about **(69 C STANSBERRY RD.); Coordinates: 32.289528, -80.770311.** 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 **(NOVEMBER 9, 2020)** (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 for the EARLY CHILDHOOD ACADEMY PROJECT.**

George C. Eidel, CFM
Doddridge County Floodplain Manager.

10-14-2xb

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
JENNIFER D. LEGGETT
2695 Oxford Road
West Union, West Virginia 26456
My Commission Expires Oct. 18, 2024

STATE of WEST VIRGINIA;
COUNTY OF DODDRIDGE, TO WIT:

I, Tamela B. Beamer, Editor of THE HERALD RECORD, a certified weekly newspaper published regularly in Doddridge County, West Virginia, DO Hereby Certify Upon Oath that the accompanying Legal Notice entitled:

Doddridge County Floodplain Permit

Permit # 20-583

was published in said paper for 2 successive weeks beginning with the issue of 10/14, 2020 and ending with the issue of 10/21, 2020 that contains 205 word space at .115 cents per word and amounts to the sum of $ 23.57 FOR THE FIRST PUBLICATION.

SECOND PUBLICATION IS 75% OF THE FIRST PUBLICATION and each other publication thereafter $ 17.67 for the TOTAL OF: $ 41.24

Editor,

Tamela B Beamer

SWORN TO AND SUBSCRIBED BEFORE ME THIS THE 21 day of October, 2020.

NOTARY PUBLIC

Jennifer D Leggett