HARTLAND BRIDGE CLAY COUNTY, WEST VIRGINIA STATE PROJECT S308-16-14.77 FEDERAL PROJECT BR-0016(171)E



STATE LEVEL DOCUMENTATION

MAY 2012

West Virginia
Department of Transportation
Division of Highways
Engineering Division
Environmental Section
(304) 558- 2885

STATE LEVEL HISTORIC DOCUMENTATION HARTLAND BRIDGE

Location: West Virginia State Route 16

Hartland Clay County West Virginia

USGS Hartland Quadrangle

Date of Construction: 1924

Builder: Roanoke Iron and Bridge Company (Superstructure)

Fidelity Construction Company (Substructure)

Designer: West Virginia State Road Commission

Present Owner: West Virginia Department of Transportation

Division of Highways

1900 Kanawha Boulevard, Building 5, Room A-110

Charleston, WV 25305

<u>Present Use</u>: Vehicular Bridge

Significance: The Hartland Bridge is significant under Criterion A for its local transportation

significance and under Criterion C for engineering design.

Project Information: The project has been undertaken due to the poor condition of the

bridge. Any future deterioration of the bridge would result in its closure, the existing bridge warrants replacement. The documentation was undertaken in May 2012 in accordance with a Memorandum of Agreement among the West Virginia

Department of Transportation and West Virginia State Historic Preservation Office. These measures are required prior to replacement of this National Register eligible

structure.

Sondra L. Mullins, Structural Historian West Virginia Division of Highways

Charleston, WV 25305

May 21, 2012

Hartland Bridge is located in Clay County in the small community of Hartland. The bridge carries West Virginia Route 16 over the Elk River. The surrounding landscape is rural and mountainous in nature.

Hartland Bridge was built in 1924 by Roanoke Iron and Bridge Company and was designed by the West Virginia State Road Commission. Hartland



Bridge consists of four steel simple span riveted deck girders with span lengths of 60' each and two steel riveted simple Pratt deck trusses with span lengths of 160' each. The overall length of the bridge is 571'-5" and the deck width is 20'-0". The piers and abutments consist of reinforced concrete. The bridge railings consist of vertical steel I-sections which support typical metal guardrail. The deck is concrete-filled steel grid. There are no bridge plates.

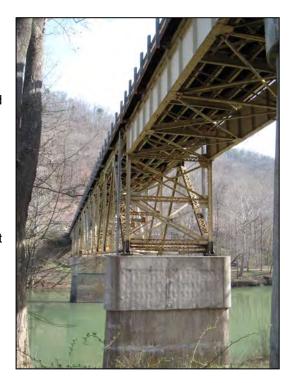
According to the West Virginia Archives and History website, Hartland was first known by that name in 1918. The area is labeled as Middle Creek on the 1908 United States Geological Survey topographical map. The 1908 USGS map also shows the Coal and Coke Railroad and a ford across the Elk River around the location of Hartland Bridge. Jacob Salisbury, first court clerk of Clay County, owned most of the land in and around Hartland. In 1917, his son sold lots in the area and a number of homes were built. The road along the Elk River between Clay and Hartland that later became WV 16 is shown on the 1908 topographical map, but appears to have been improved around the time of the construction of Hartland Bridge or slightly after.

Hartland Bridge was built across the Elk River in 1923-24. D.H. Stephenson, member of the West Virginia House of Delegates, secured the funding for the bridge. It was constructed by the Roanoke Bridge Works, which began in 1906 as the Roanoke Bridge Company. The company operated in the southern United States and by 1911 had constructed over 600 bridges including a 700' bridge with 200' draw span over the Nanticoke River in Maryland, and various steel buildings. The company failed around 1912 and was acquired by the Camden Iron Works of Salem, Virginia and reorganized as the Roanoke Iron and Bridge Works around 1915. No information could be found regarding the Fidelity Construction Company of Mount Hope.

Hartland Bridge is one of two bridges in the state that are riveted deck trusses. The structure is an uncommon bridge type and has an exceptional span length for its type and year of construction.

Hartland Bridge was the first bridge to cross over the Elk River at this location. County histories indicate that the construction of this bridge was a point of pride and excitement for the local community. For example, one author wrote "In 1923, one of the best highway bridges was built across the river." This large bridge represented a major transportation improvement for the very rural county.

Original bridge plans and shop drawings as well as repair plans from 1961 and 1976 were available in WVDOH records. The most significant alterations made to the bridge occurred in 1976 and included the compete replacement of the concrete deck with a concrete-filled steel grid deck and the welding of steel angles and plates to the deck trusses, girder spans, floor beams and stringers in order to increase the strength capacity. The original railing, which consisted of three horizontal angles at a spacing of 1'-6" and diamond-pattern lacing, has been replaced with standard galvanized metal guardrail (date unknown.) In spite of these alterations, the scale and form of the original long-span riveted deck trusses is still intact.



The Hartland Bridge is eligible for the National Register of Historic Places under Criterion A for local transportation significance and under Criterion C for engineering design.

BIBLIOGRAPHY

West Virginia Division of Highways, Bridge Files, Maintenance Division, Building 5, Capitol Complex, Charleston, West Virginia, 2011.

West Virginia Division of Highways, Historic Property Inventory Form, Engineering Division, Building 5, Capitol Complex, Charleston, West Virginia, August 2011.

West Virginia Division of Highways, Phase 1 Cultural Resource Management Report, Engineering Division, Building 5, Capitol Complex, Charleston, West Virginia, May 2010.

WV Culture and History Website, http://www.wvculture.org/, accessed in April 2010.

STATE LEVEL HISTORIC DOCUMENTATION INDEX TO PHOTOGRAPHS

Hartland Bridge

West Virginia State Route 16, over Elk River

Hartland

Clay County, West Virginia

Photographer: Courtney Fint and Sondra Mullins April 2010 & May 2012

HARTLAND -1	Deck of bridge looking north to south (2010)
HARTLAND -2	Downstream side of bridge (2010)
HARTLAND -3	Pier at girder spans, south bank (2012)
HARTLAND -4	Southside of bridge looking northeast (2012)
HARTLAND -5	Truss at Pier 3 (2010)
HARTLAND -6	Underneath bridge deck at south end (2012)
HARTLAND -7	Upstream side looking underneath the bridge (2012)
HARTLAND -8	Upstream side of the bridge (2010)
HARTLAND -9	View from south side bank (2010)
HARTLAND -10	Riveted steel bent with pin connection at the base (2012)

Original bridge plans and 1976 repair plans are attached.













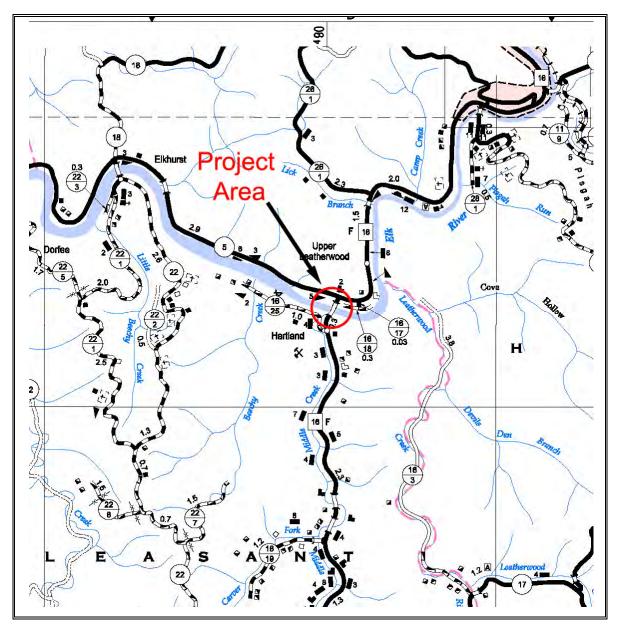








HIGHWAY MAP

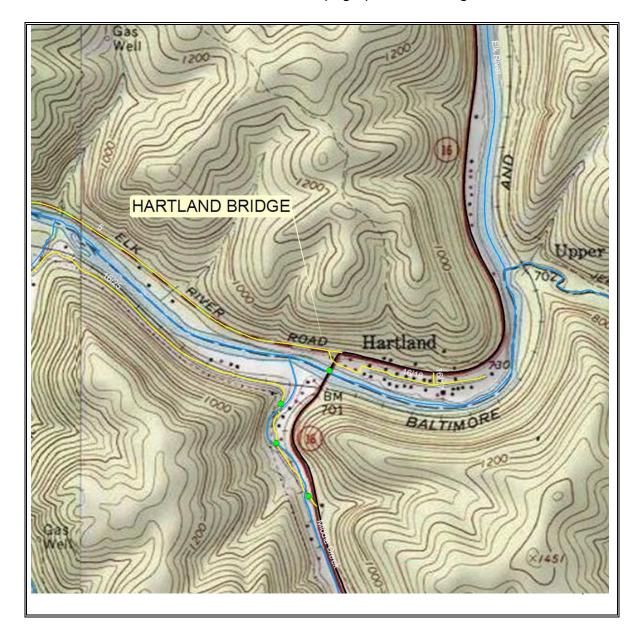




Hartland Bridge Replacement Clay County State Project S208-16-14.77 Federal Project BR-0006(171)D

TOPOGRAPHIC MAP

Hartland USGS 71/2' Topographic Quadrangle



Hartland Bridge Replacement Clay County State Project S208-16-14.77

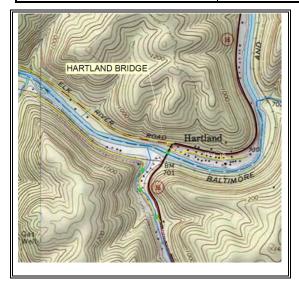
Federal Project BR-0006(171)D

Internal Rating: _____



WEST VIRGINIA HISTORIC PROPERTY INVENTORY FORM

Street Address	Common/Historic Name/Both	Field Survey #	Site # (SHPO Only)
WV 16 Milepost 14.77	Hartland Bridge	HPI 1	, , , , ,
Town or Community Hartland	County Clay	Negative No.	NR Listed Date
Architect/Builder	Date of Construction	Style (SHPO Only)	
WV State Road Commission (design); Roanoke Bridge Works (superstructure);Fidelity Construction Co. (substructure)	1924		
Exterior Siding / Materials	Roofing Material	Foundation	
Construction material: steel	Deck material: Asphalt over concrete filled steel grid	Abutments: concrete Piers:	concrete
Property Use or Function	UTM Zone 17 NAD 1983	Call of NOW	
Transportation	Easting 490,134 Northing 4,253,687 Quadrangle Name Hartland		
Survey Organization & Date	- Haitialiù 		
WVDOH	Part of What Survey / FR#		
April 1, 2010			



Site No.

Hartland Bridge Name:

HPI 1

Survey #: Survey / FR#:

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Present Owners		Owners Mailing Address		
WVDOT		Capitol Complex, Charleston, WV		
Describe Setting		<1 Acres		
		Archaeological Artifacts Present		
This bridge crosses the	ne Elk River in a rural area. The surrounding I	andscape is mountainous and wooded. There is a small		
community located ale	ong the river directly upstream of the bridge.			
-				
Description of Bui	Idings or Site (Original and Present)	Stories Front Bays		
		lers with span lengths of 60' each and two steel riveted simple		
		th of the bridge is 571'-5" and the deck width is 20'-0". The piers		
		consist of vertical steel I-sections which support typical metal		
	concrete-filled steel grid. There are no bridge			
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	and stringers for increased strength	or grid door, otoor arigino and plates worded to trace members,		
		n lacing replaced with standard galvanized metal guardrail.		
Date unknown. origina	ai nonzontai angle railing with diamond patter	mading replaced with standard galvanized metal guardrail.		
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Sullivan, Ken. The West Virginia Encyclopedia. Charleston, WV: West Virginia Humanities Council, 2003.				
Jack, George S. and Edward Boyle Jacobs. History of Roanoke County. 1912.				
History of Clay County Volume I. Clay, WV: Clay County History Book Committee, 1989.				
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	Capitol Complex			
	Building 5, Rm. 463			
	Charleston, WV 25305			
Phone #:	558-7421			
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WEST VIRGINIA HISTORIC PROPERTY FORM CONTINUATION SHEET

Name: Hartland Bridge

Survey Number: HPI 1

Project / FR#:

According to the West Virginia Archives and History website, Hartland was first known by that name in 1918. The area is labeled as Middle Creek on the 1908 United States Geological Survey topographical map. The 1908 USGS map also shows the Coal and Coke Railroad and a ford across the Elk River around the location of Hartland Bridge. Jacob Salisbury, first court clerk of Clay County, owned most of the land in and around Hartland. In 1917, his son sold lots in the area and a number of homes were built. The road along the Elk River between Clay and Hartland that later became WV 16 is shown on the 1908 topographical map, but appears to have been improved around the time of the construction of Hartland Bridge or slightly after.

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Hartland Bridge is one of two bridges in the state that are riveted deck trusses. The structure is an uncommon bridge type and has an exceptional span length for its type and year of construction. Therefore, the WVDOH has concluded that Hartland Bridge is eligible for the National Register under Criterion C for engineering design.

Hartland Bridge was the first bridge to cross over the Elk River at this location. County histories indicate that the construction of this bridge was a point of pride and excitement for the local community. For example, one author wrote "In 1923, one of the best highway bridges was built across the river." This large bridge represented a major transportation improvement for the very rural county. Therefore, Hartland Bridge is determined to be eligible under Criterion A for local transportation significance.

No information could be found linking this bridge to any important historical figures and it has little information-yielding potential. Therefore, Hartland Bridge is not eligible under Criteria B or D.

The area surrounding the bridge consists primarily of contemporary residences. The community of Hartland does not have sufficient integrity to be considered an historic district.

Original bridge plans and shop drawings as well as repair plans from 1961 and 1976 were available in WVDOH records. The most significant alterations made to the bridge occurred in 1976 and included the compete replacement of the concrete deck with a concrete-filled steel grid deck and the welding of steel angles and plates to the deck trusses, girder spans, floor beams and stringers in order to increase the strength capacity. The original railing, which consisted of three horizontal angles at a spacing of 1'-6" and diamond-pattern lacing, has been replaced with standard galvanized metal guardrail (date unknown.) In spite of these alterations, the scale and form of the original long-span riveted deck trusses is still intact. Hartland Bridge retains sufficient integrity of materials, design and workmanship to qualify for the National Register of Historic Places.





1. Project environs looking northeast towards bridge.



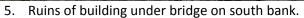
3. Girder spans on south end of bridge.

2. Project environs looking south towards CR 16/25.



4. Rail lines under bridge on south bank looking east.







7. Viewshed looking north from south bank.



6. Project environs looking southwest from under bridge.



8. View of upstream side of deck truss from south bank.





9. Girder spans and bent at south end of bridge.







13. River camp buildings on north bank.



15. Project environs at north end of bridge looking west.

14. North approach.



16. Project environs at north end of bridge looking east.



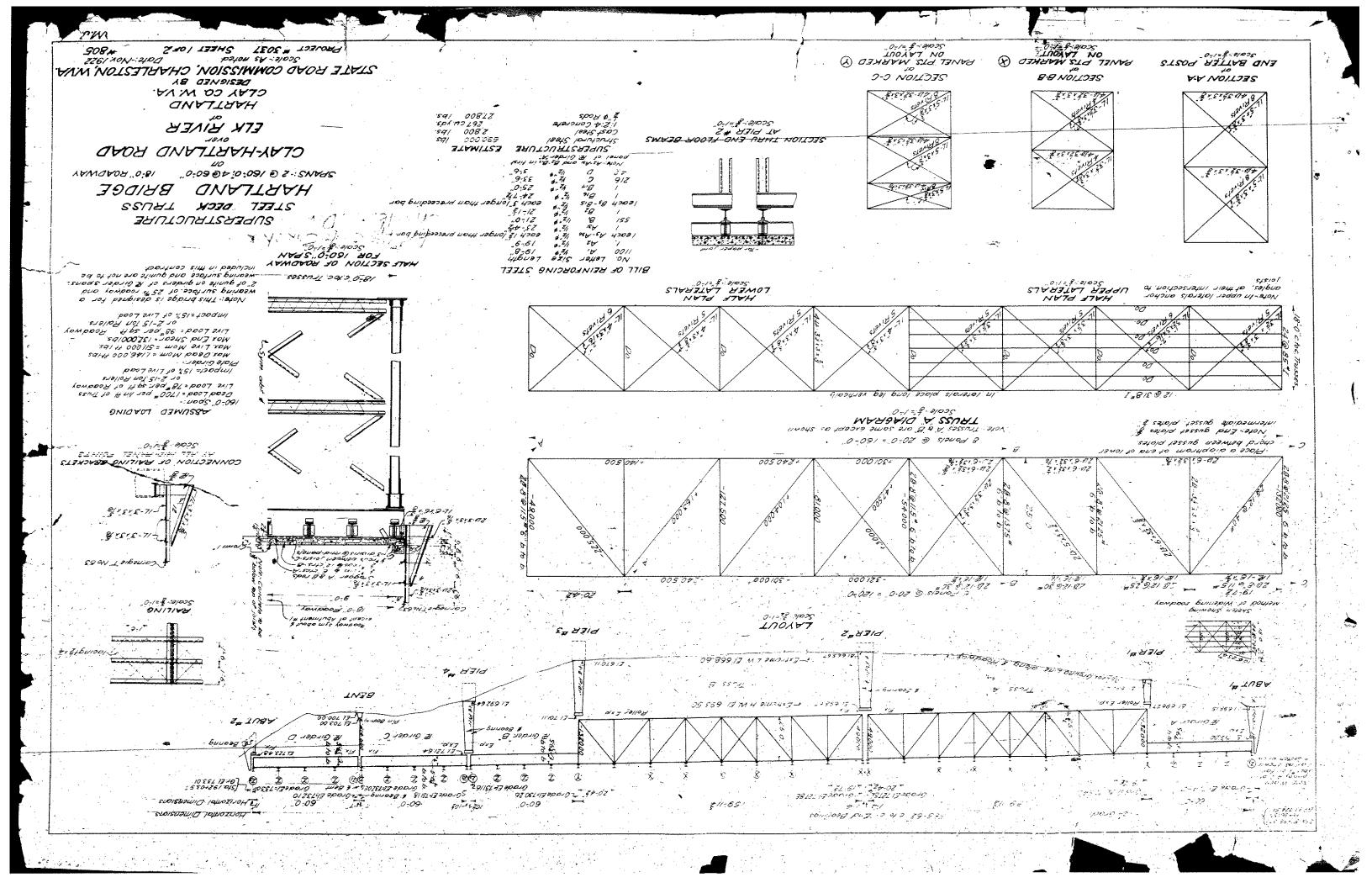


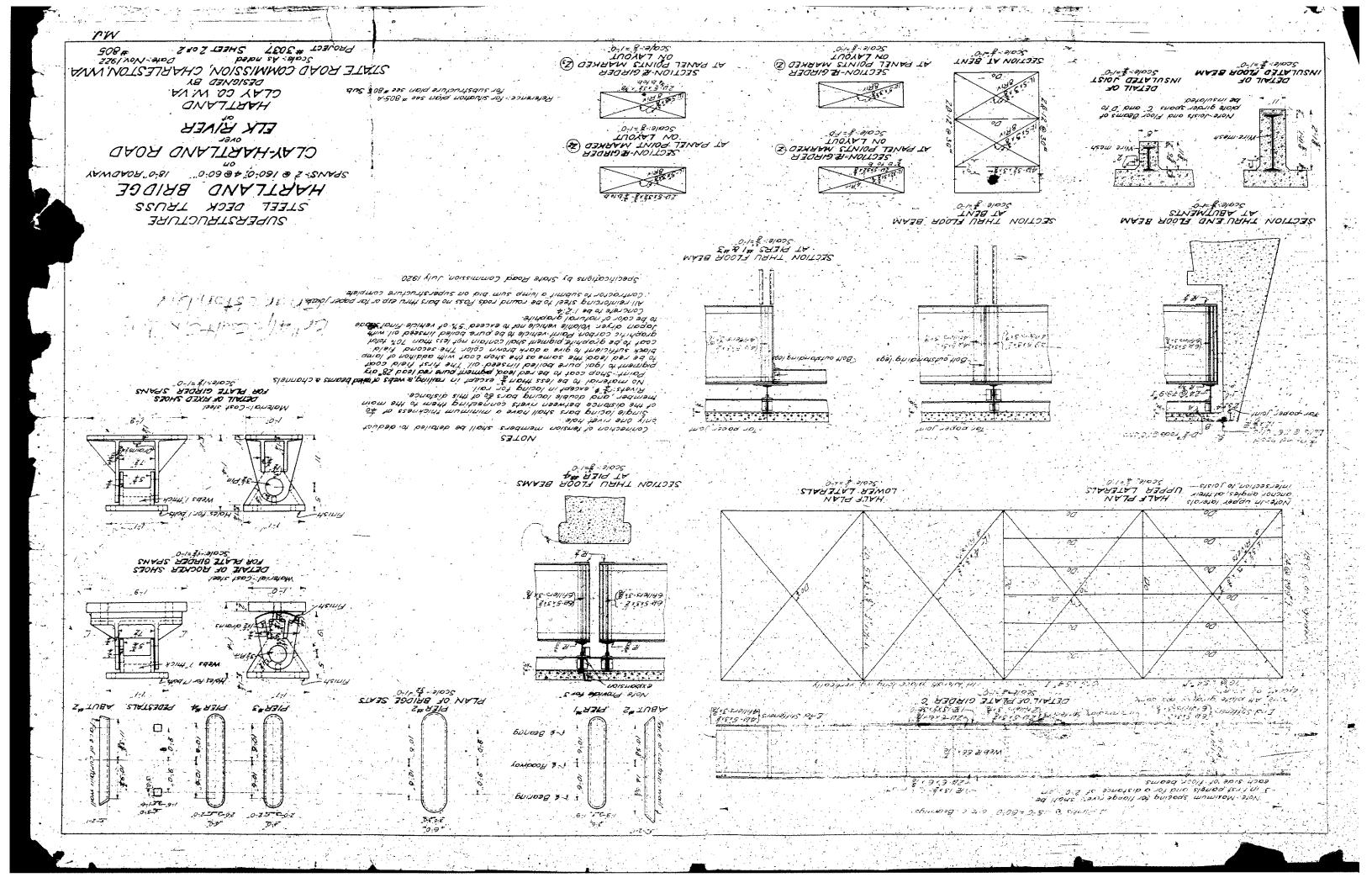
17. Upstream side of bridge from north bank.

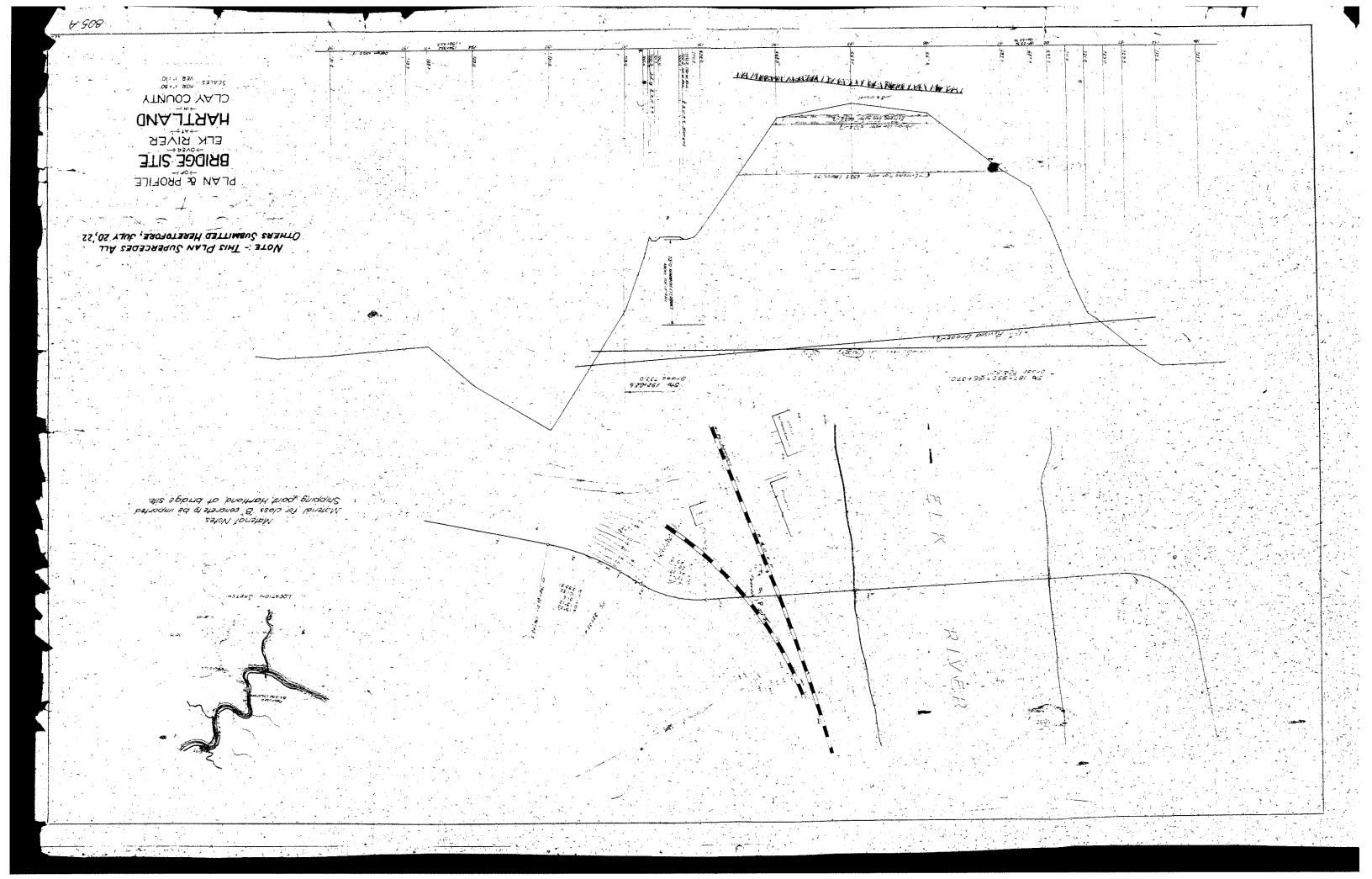


19. Downstream side of bridge from south approach.

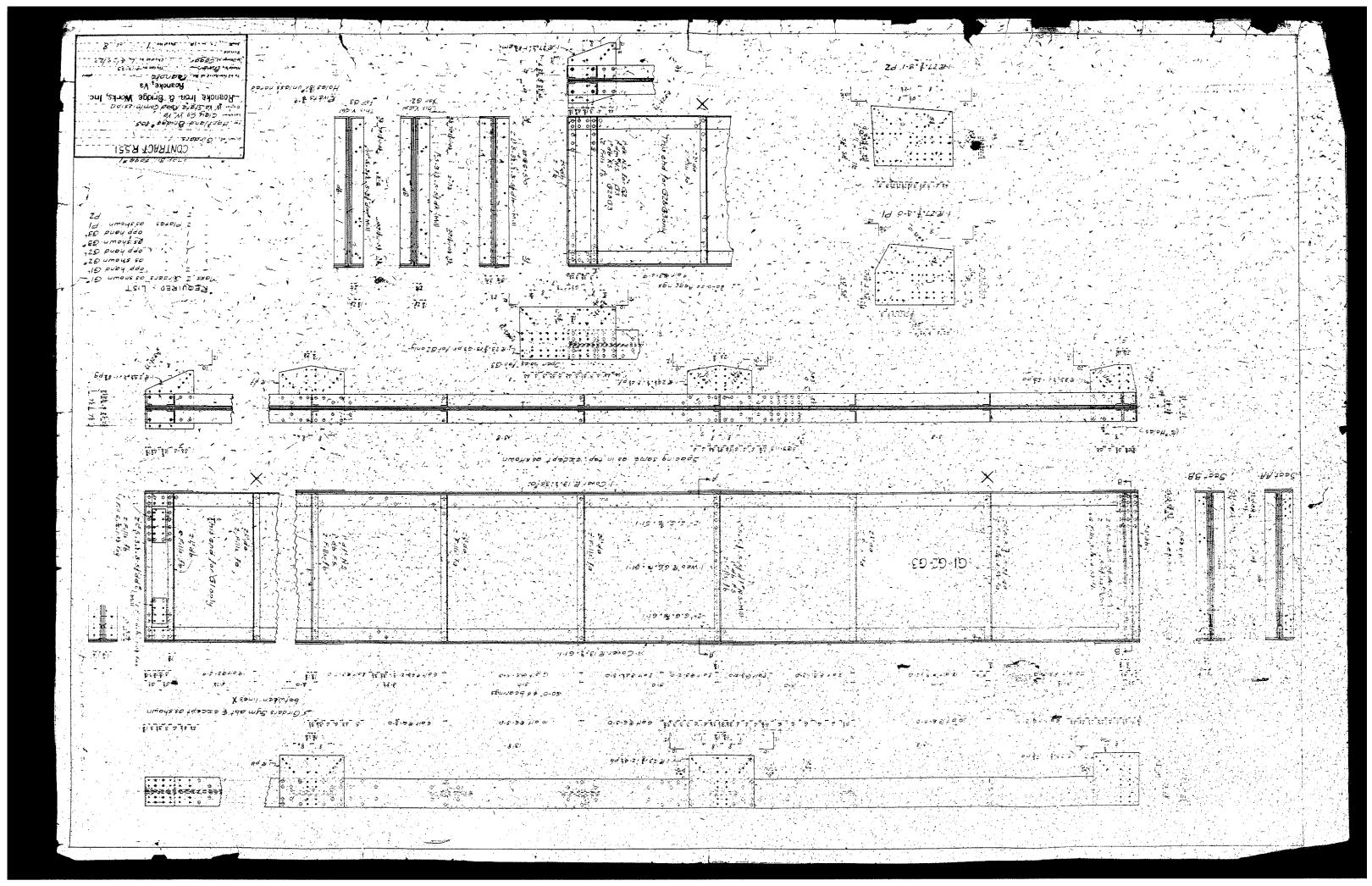
20. Railroad culvert for Middle Creek on south bank.

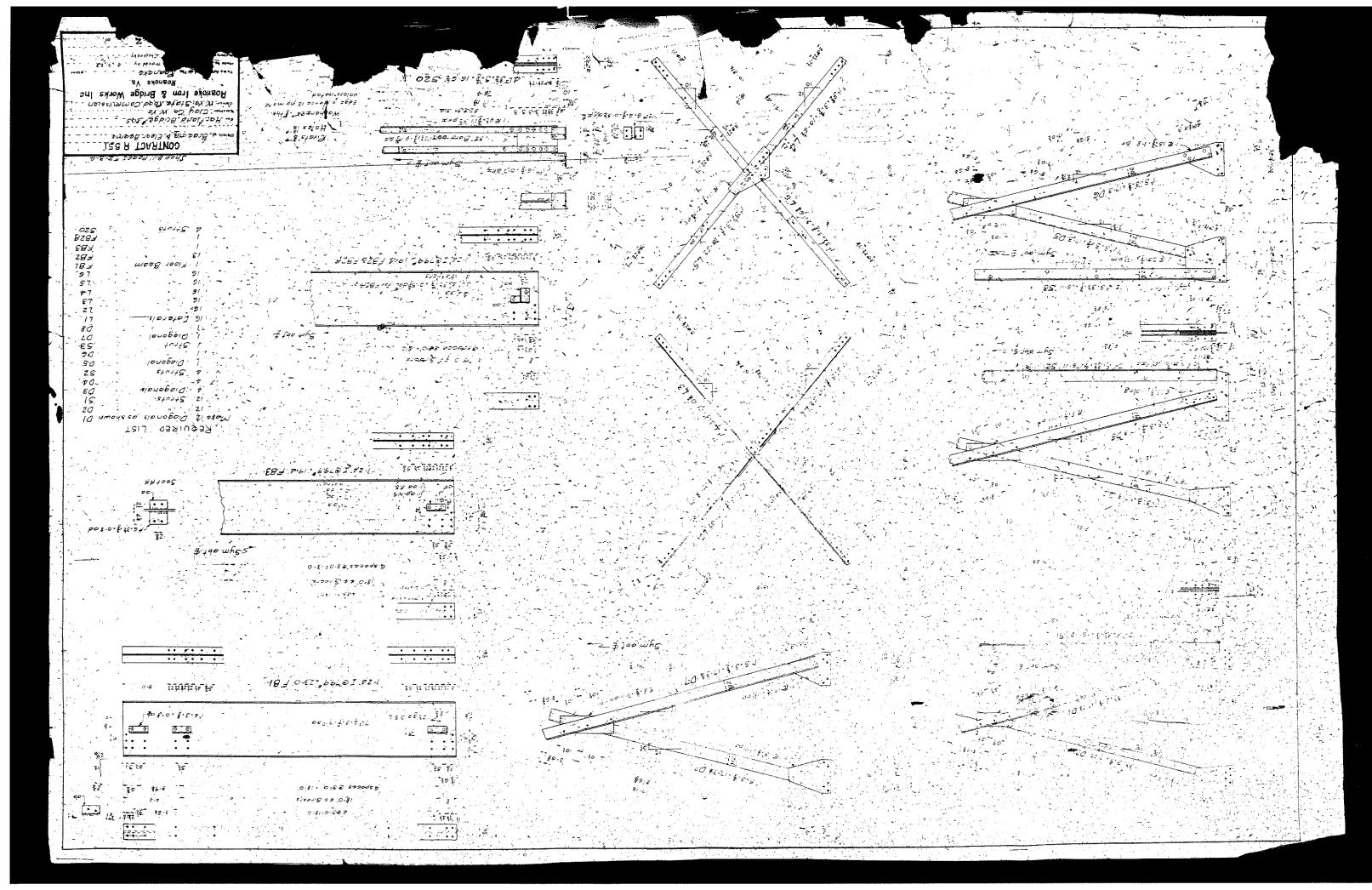


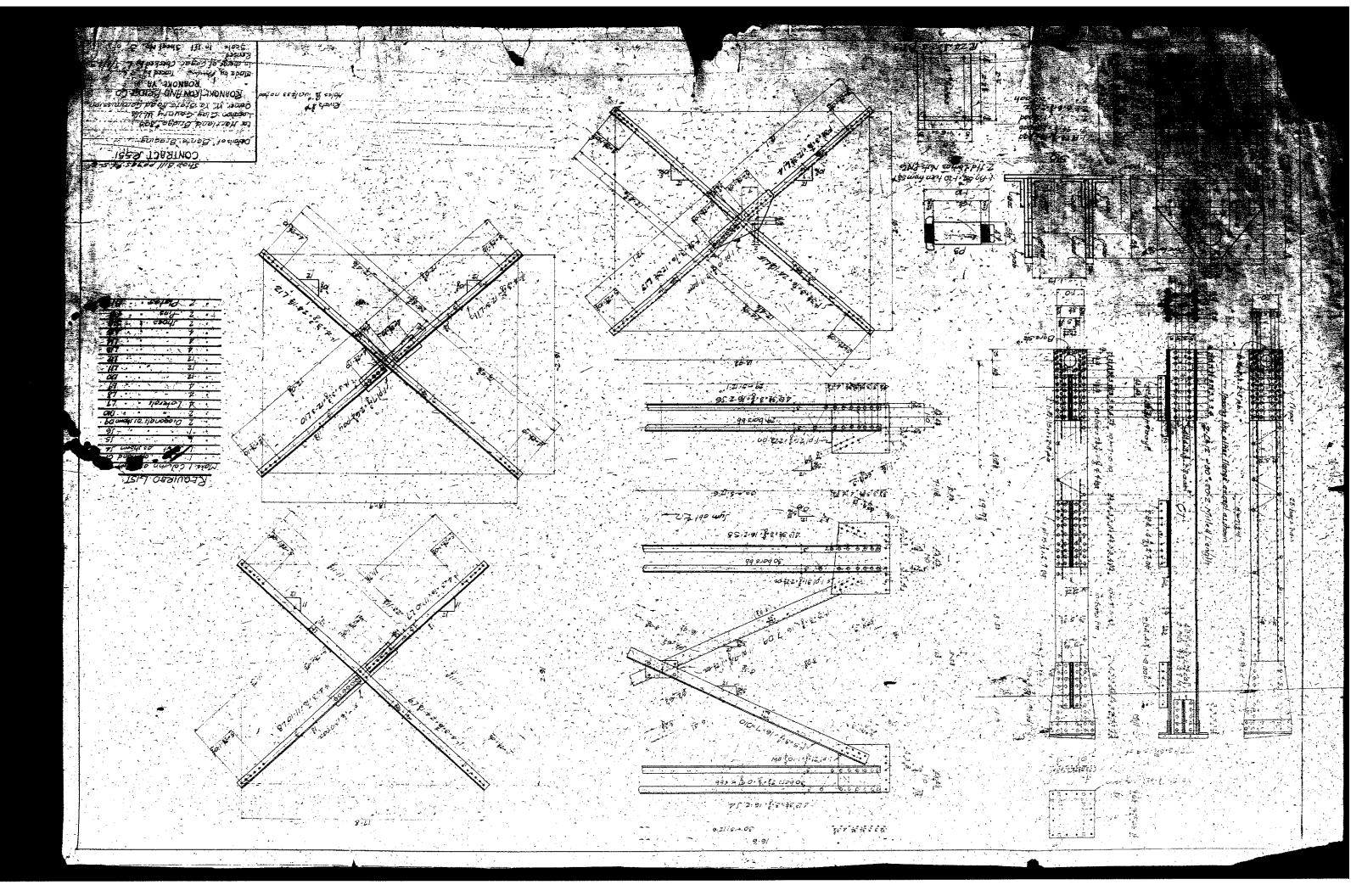


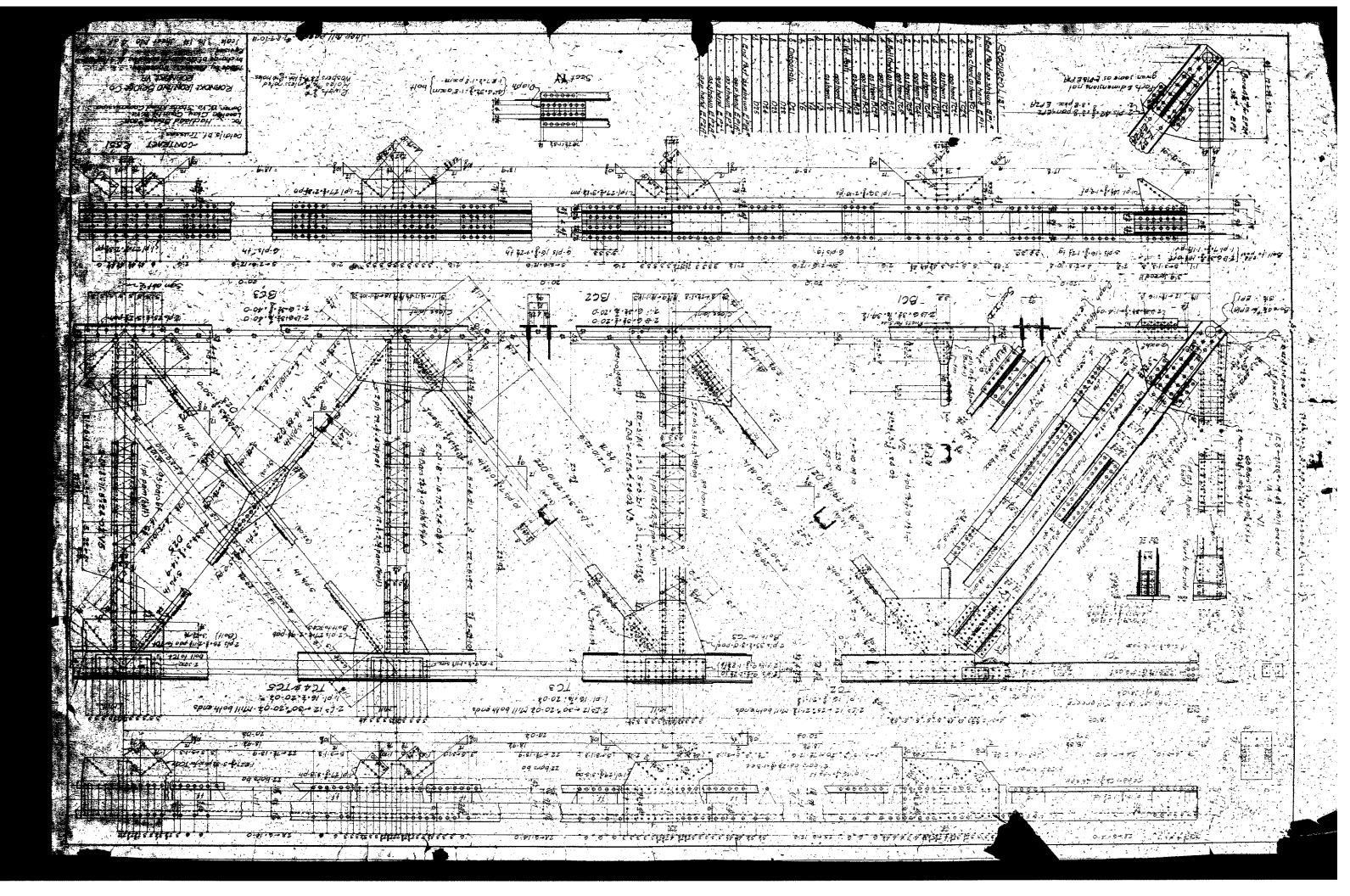


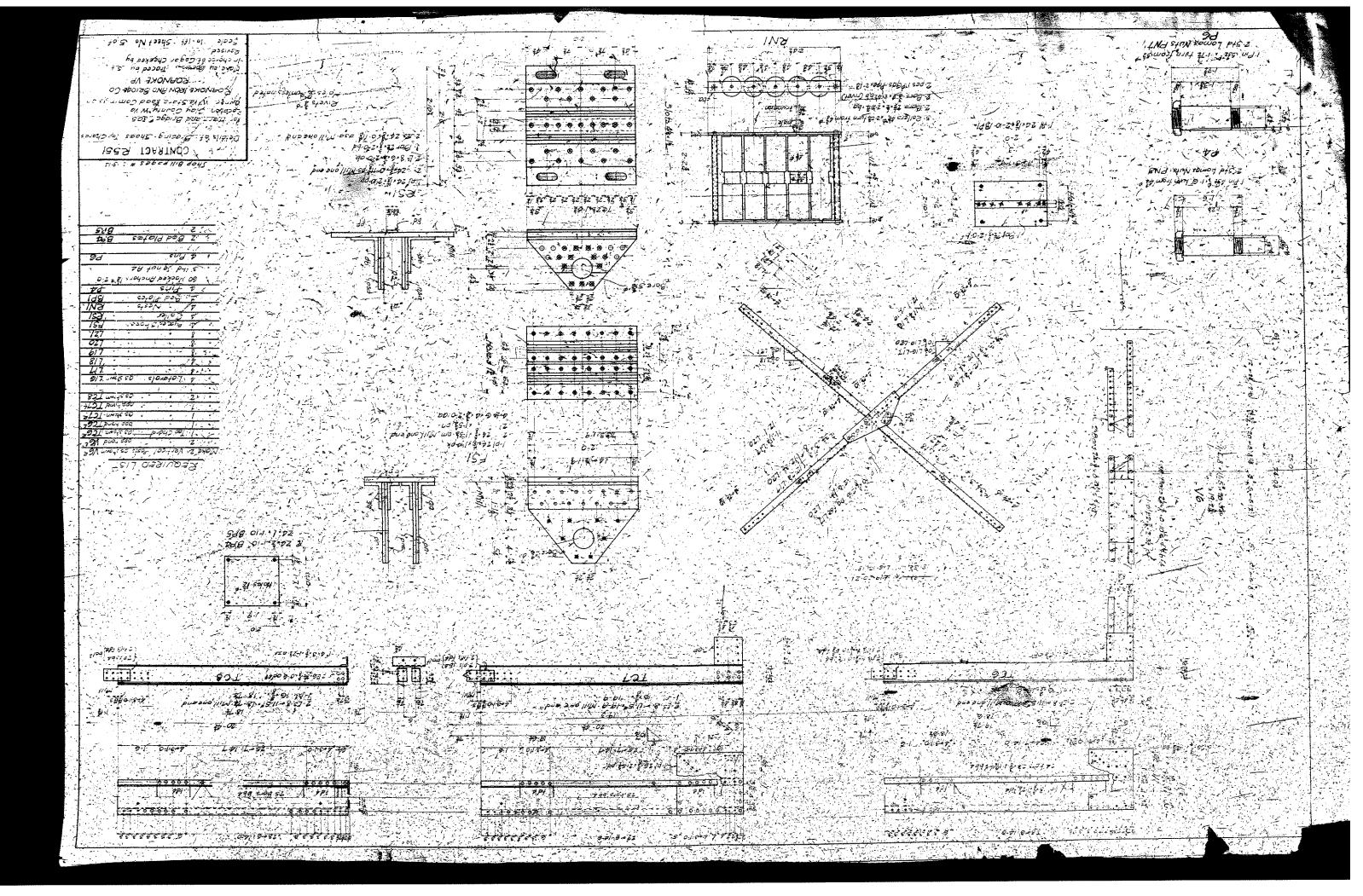
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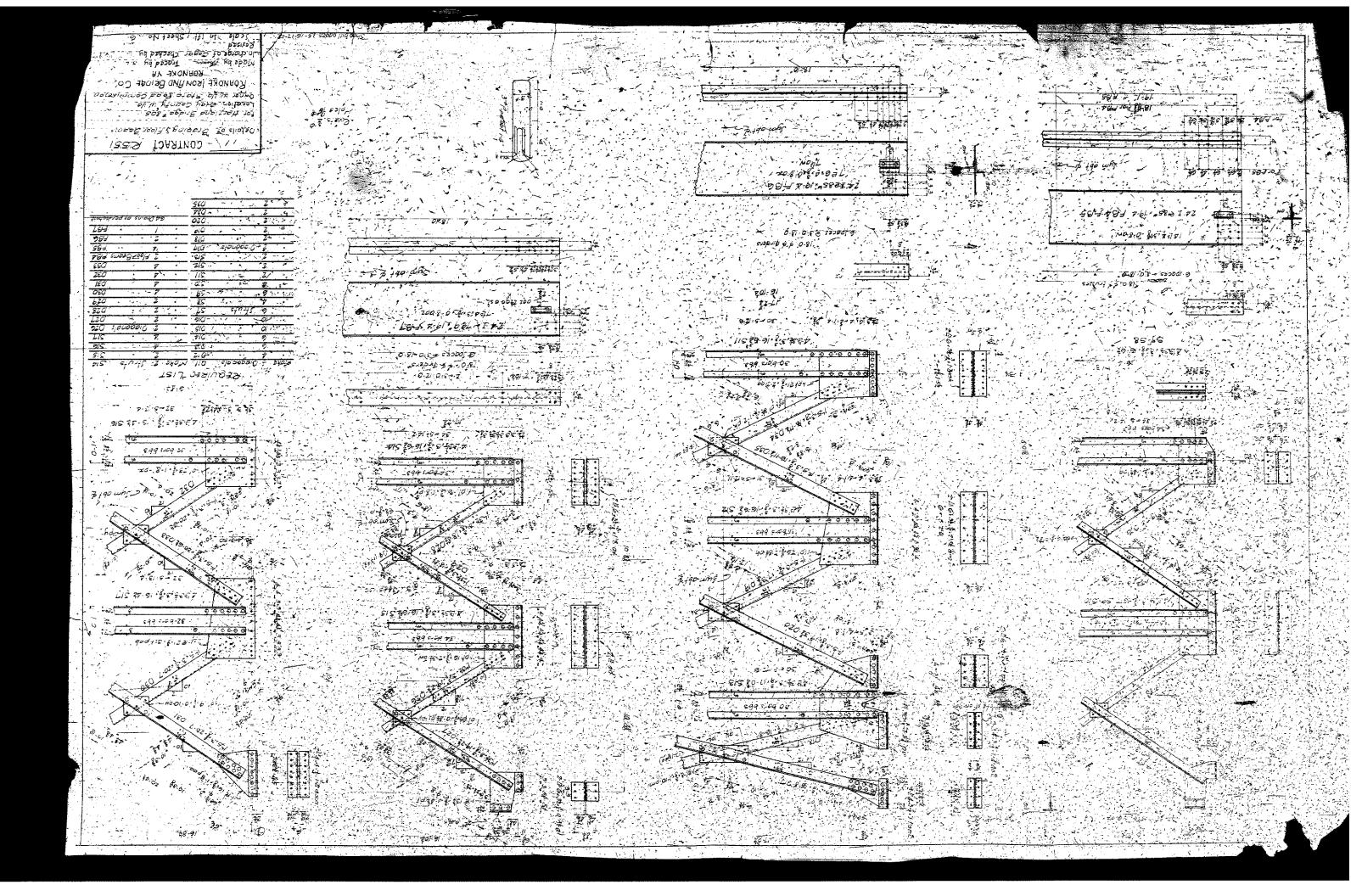


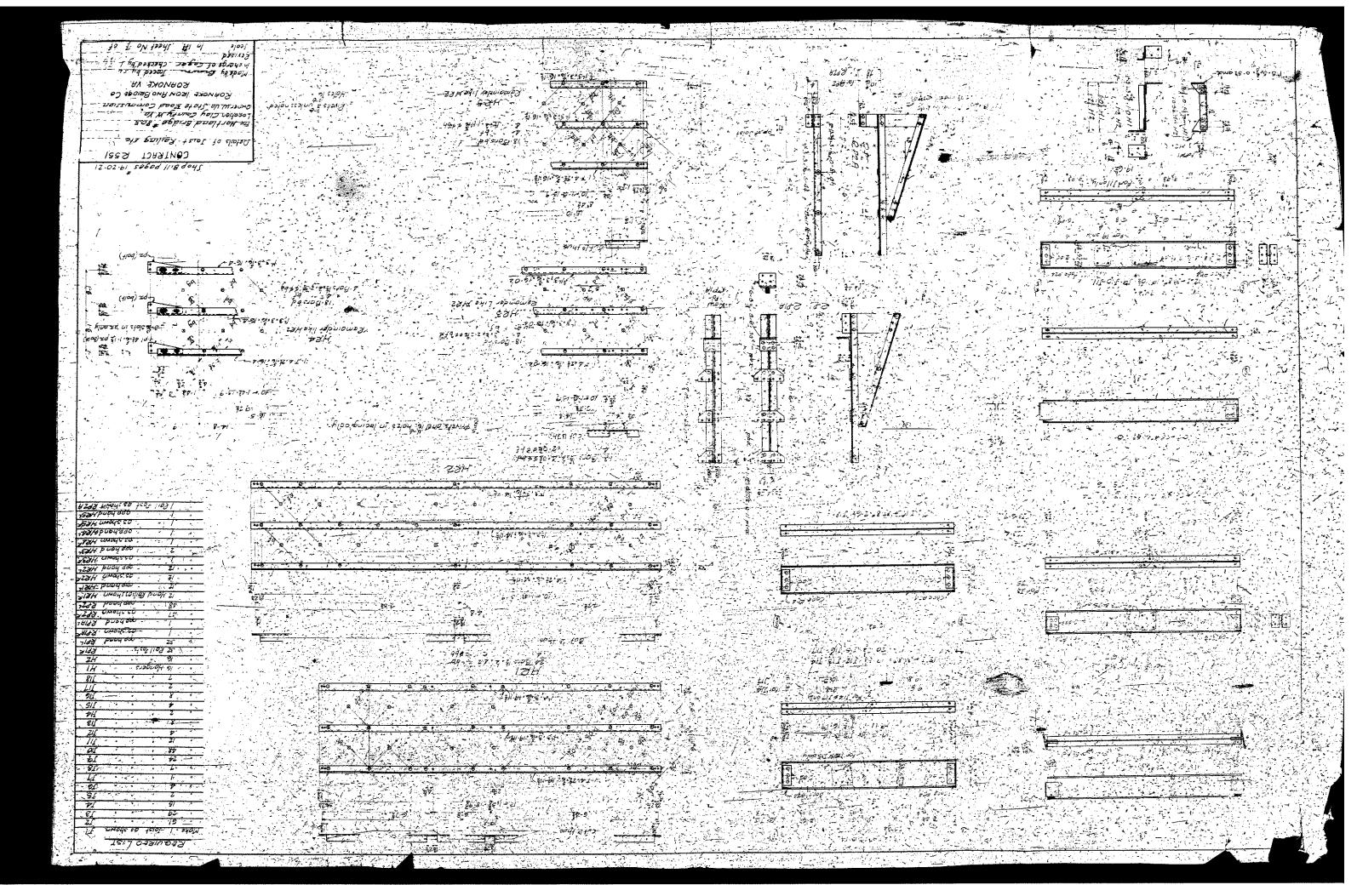


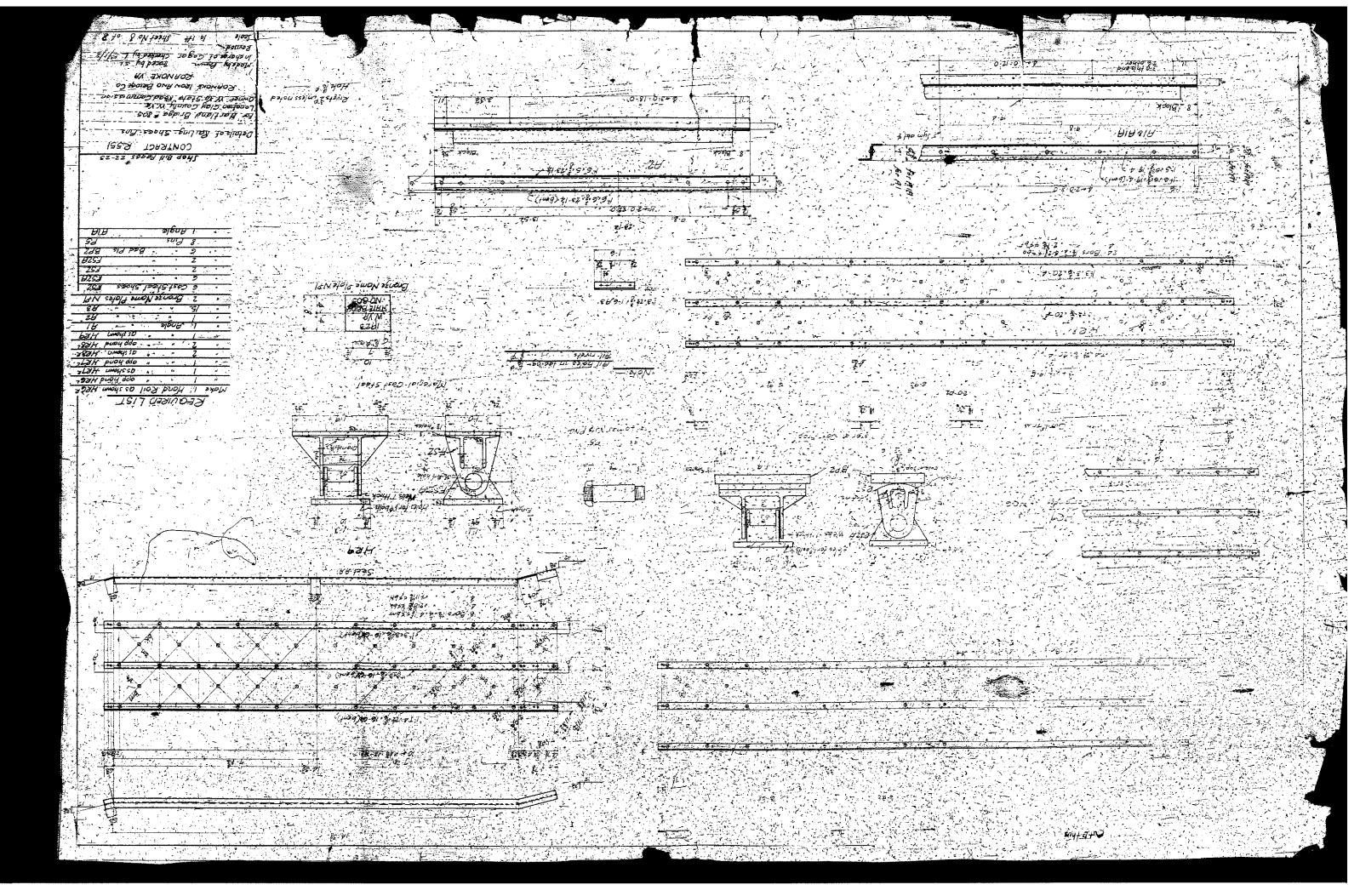


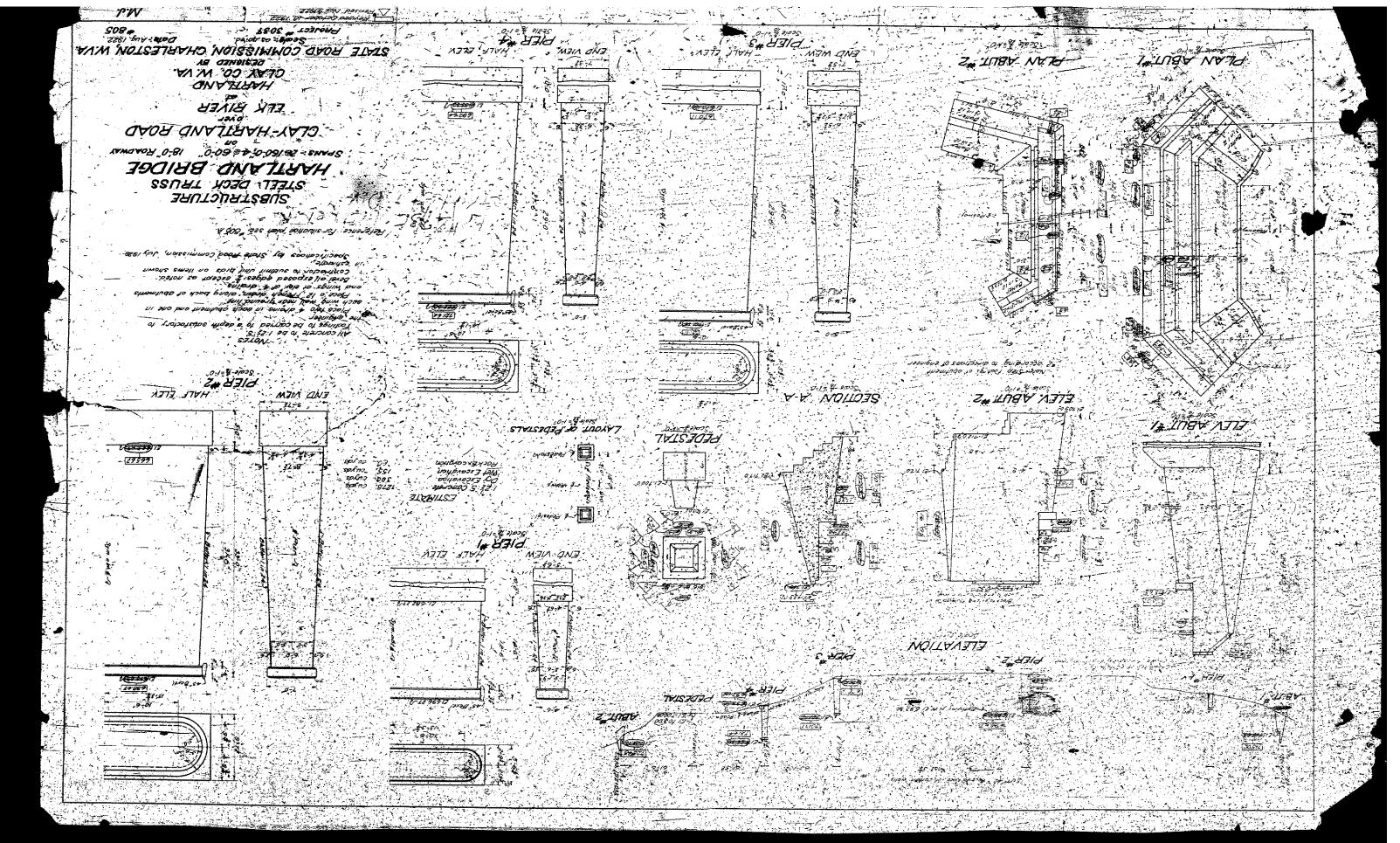












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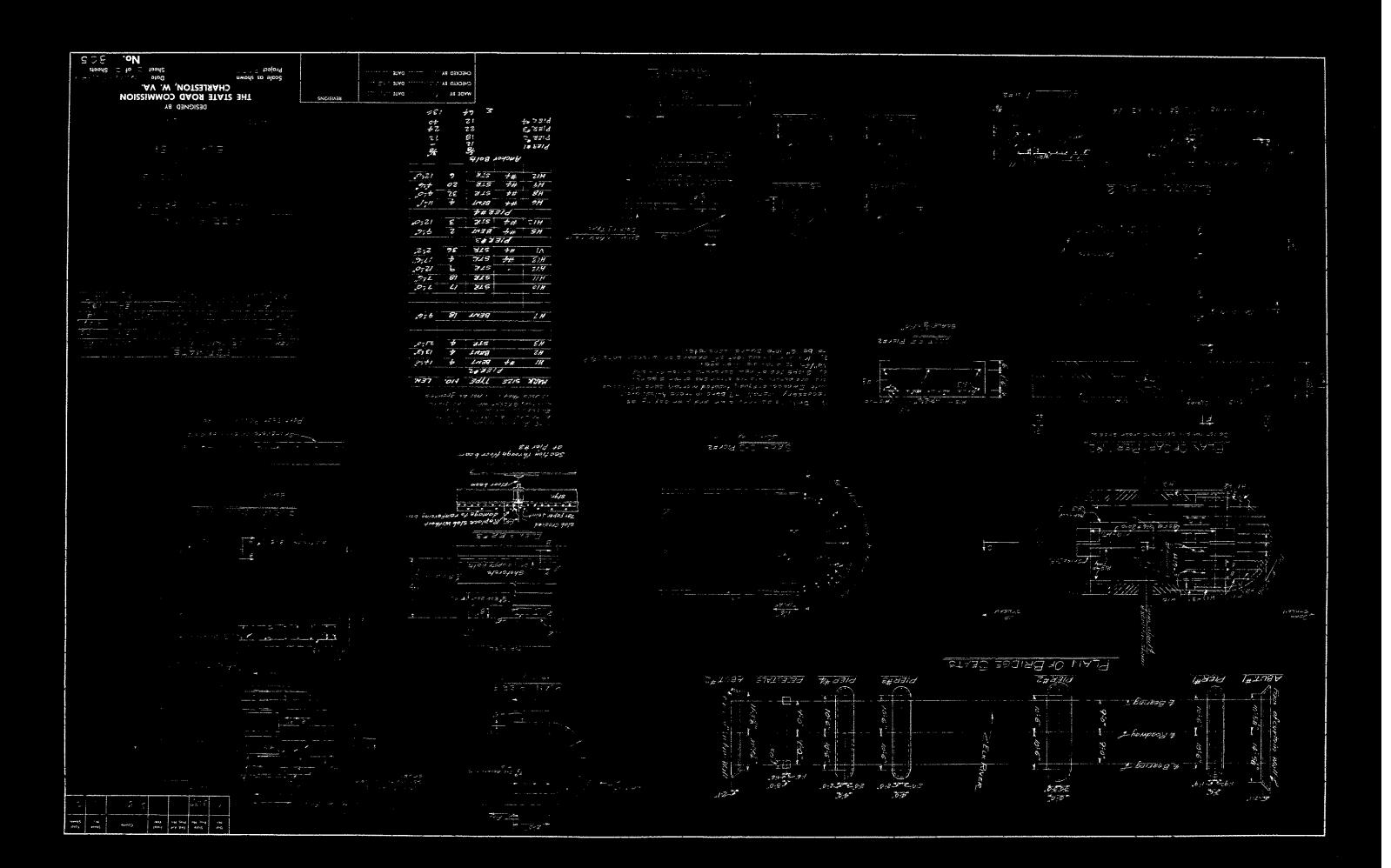
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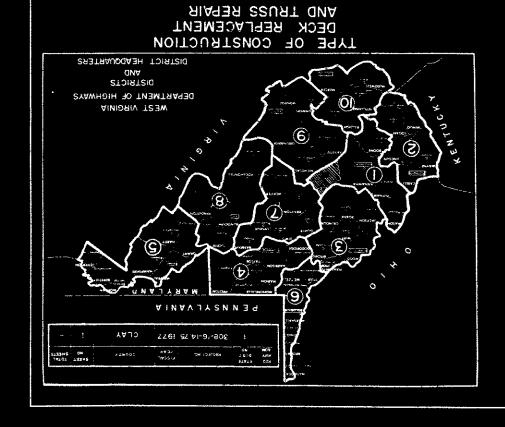
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COVERNING SPECIFICATIONS:





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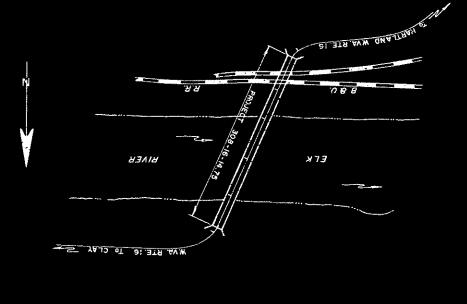
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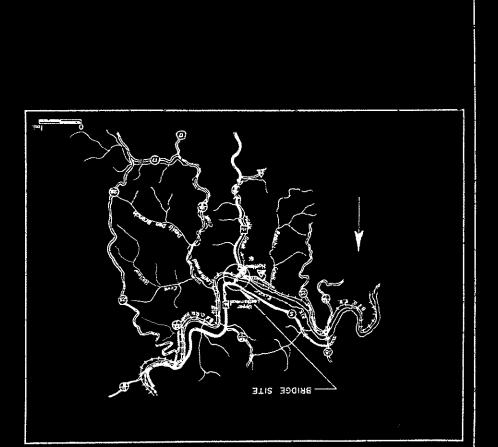
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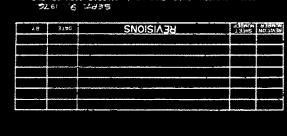
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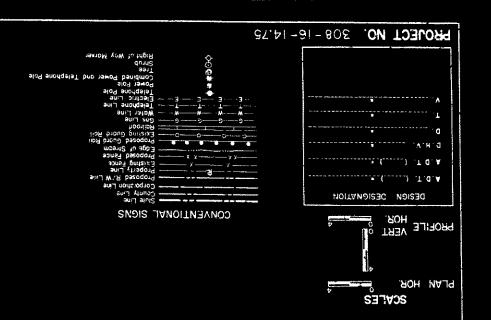






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COVERNING SPECIFICATIONS

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disposing of the supercarion of me work of the con-disposing of the supercarious of provided above shall be the quantity determined of provided above shall be paid for at the contract unit price bid for this for completing the item. Material removed from the bridge snall not be dropped in the river but shall occome property of the Contractor in the river but shall occome property of the Contractor and removed from the right of way.

And to be removed.

All concrete reinforcing steel and other debrie resulting from removal of the deck shall be disposed of as directed by the Engineer. Generate shall be measured as a complete unit and shall include the complete exclution of the work of removing and complete steel of the superstructure.

shall be removed. The existing concrete deck , and curb

CONCRETE

REMOVAL OF EXISTING SUPERSTRUCTURE

of all dirt, leaves, and other debris. bearings shall be cleaned and therefore be three In addition to the above mentioned metal between the members to bare metal.

inisitem consists of cleaning and painting the bridge os herein specified. Approximately 350 tens of metal to be painted.

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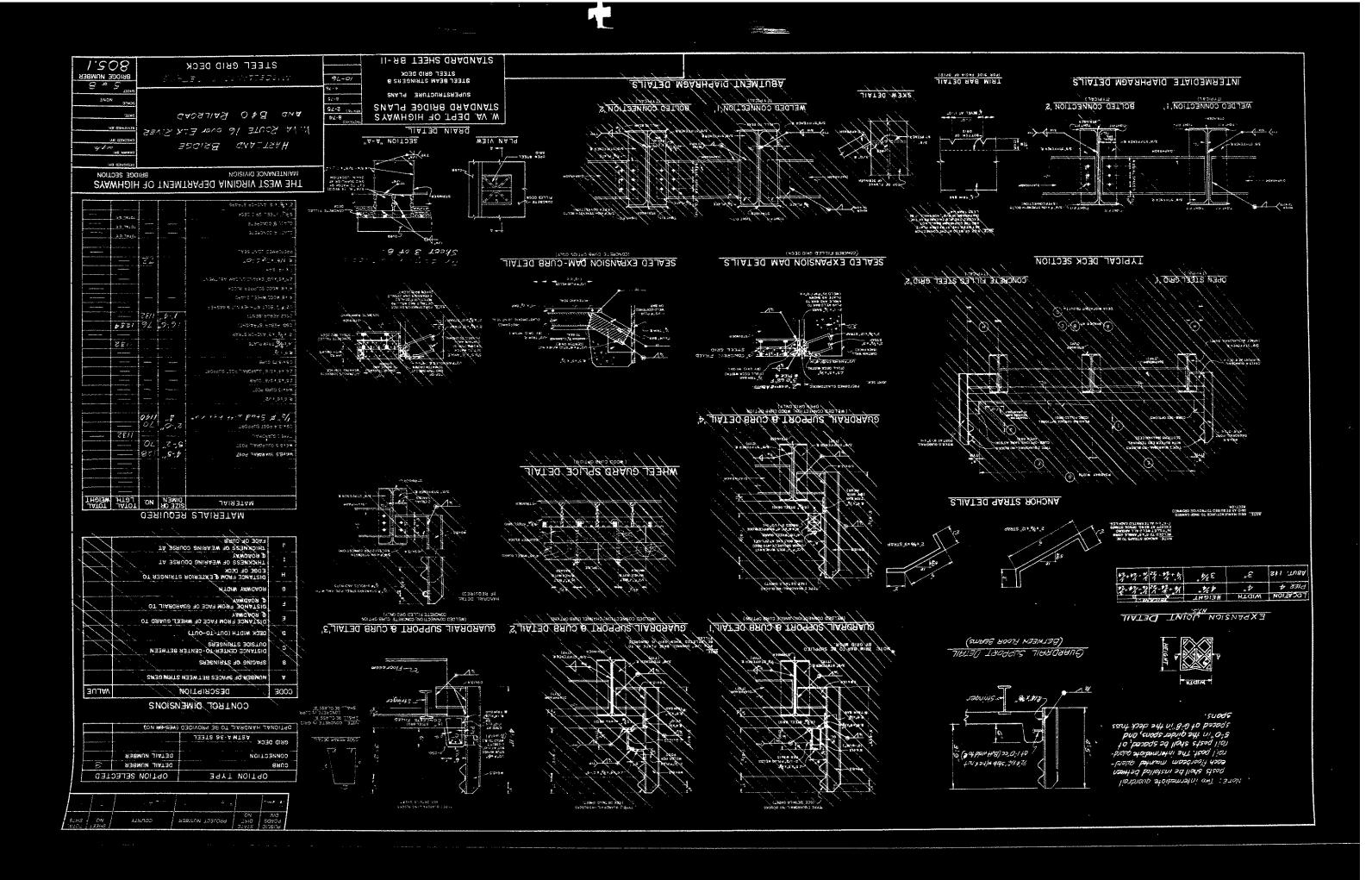
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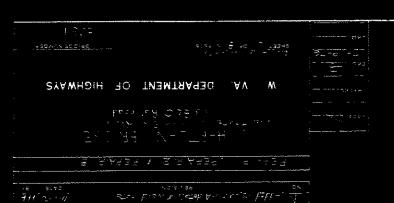
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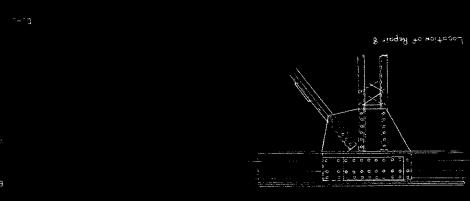




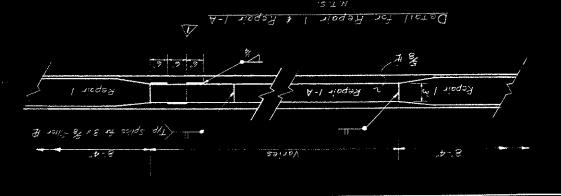
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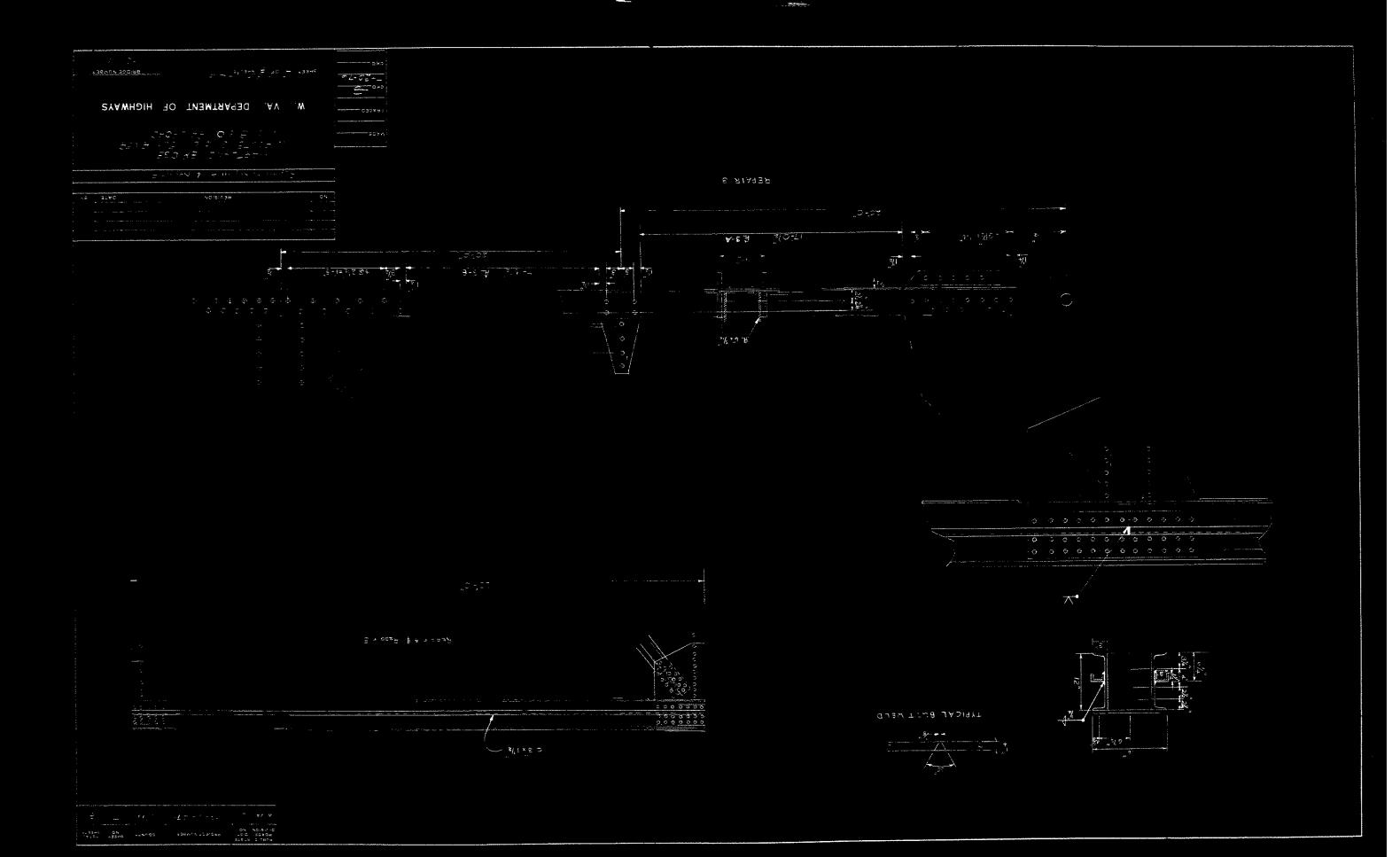


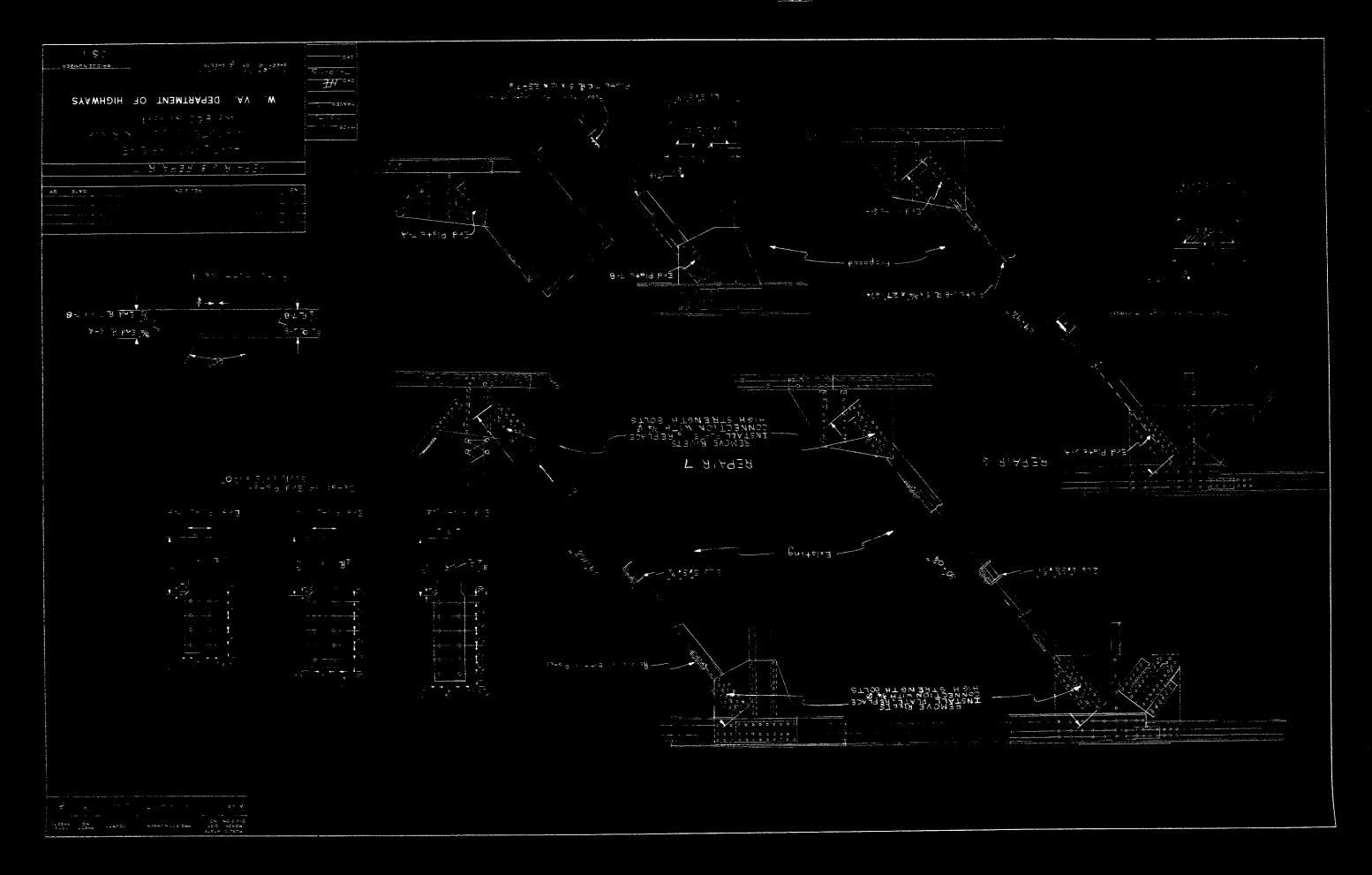
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MEMORANDUM OF AGREEMENT BY AND AMONG

THE WEST VIRGINIA STATE HISTORIC PRESERVATION OFFICER THE WEST VIRGINIA DIVISION OF HIGHWAYS AND THE FEDERAL HIGHWAY ADMINISTRATION

REGARDING IMPLEMENTATION OF THE HARTLAND BRIDGE REPLACEMENT PROJECT STATE PROJECT #S208-16-14.77 FEDERAL PROJECT #BR-0016(171)D CLAY COUNTY, WEST VIRGINIA JANUARY 2011

WHEREAS, the Federal Highway Adminstration (FHWA), in cooperation with the West Virginia Division of Highways (WVDOH) proposes to replace Hartland Bridge, which spans the Elk River in Clay County, hereinafter referred to as the "Project." The Project involves improvements including the construction of a new bridge structure to be located approximately 100' downstream of the existing bridge location and the removal of the existing structure; and

WHEREAS, the FHWA has determined that the Project will have an adverse effect upon the Hartland Bridge, a property eligible for the National Register of Historic Places (NRHP); and

WHEREAS, the FHWA has consulted with the West Virginia State Historic Preservation Officer (WVSHPO) pursuant to West Virginia Code Chapter 29, Article 1 and its implementing regulations (82 CSR 2), as well as 36 CFR Part 800.5 (implementing Section 106 of the National Historic Preservation Act (16 U.S.C. 470f)); and

WHEREAS, the FHWA has consulted with the Clay County Historic Landmarks Commission (HLC) regarding the effects of the undertaking on historic properties; and

WHEREAS, the HLC is organized under the auspices of the Clay County Commission (CC); and

WHEREAS, the FHWA has determined that the Project will not affect any archaeological properties; and

WHEREAS, in accordance with 36 CFR 800.6(a)(1), the Federal Highway Administration (FHWA) has notified the Advisory Council on Historic Preservation (ACHP) of the adverse effect determination and provided the specified documentation, and the ACHP has chosen not to participate in the consultation pursuant to 36 CFR 800.6(a)(1)(iii);

NOW, THEREFORE, the FHWA, the WVSHPO, the WVDOH, the HLC and the CC agree that the Project will be implemented in accordance with the following stipulations in order to take into account the effects of the Project on historic properties.

STIPULATIONS

The FHWA shall ensure that the following stipulations are carried out:

Hartland Bridge

- I. The Hartland Bridge will be documented in its present historic setting. The documentation package will include 5"x7" black and white digital prints prepared in accordance with the Interim National Register of Historic Places and National Historic Landmarks Survey Photo Policy Expansion of January 2009.
- II. A brief history of the structure will be included in the aforementioned documentation package, along with fully completed West Virginia Historic Property Inventory forms.
- III. WVDOH staff will provide the Clay County Public Library and the Clay County Historic Landmarks Commission a copy of the Hartland Bridge State Level Historic Documentation package for reference and educational purposes.
- IV. The Hartland Bridge will be included in any comprehensive mitigation plan developed collaboratively by the WVDOH, the FHWA and the WVSHPO following completion of the West Virginia Statewide Historic Bridge Survey.
- V. The WVDOH will provide a sum of \$10,000 to the Clay County Commission/HLC to be used for preservation activities and projects within Clay County. The HLC will identify projects to be completed using the funds in consultation with the WVDOH and WVSHPO. The project(s) will be identified by the HLC within six (6) months of the execution of this MOA. Funding will be provided to the County Commission upon identification of specific projects. Any work completed on historic buildings must comply with the Secretary of the Interior's Standards for the Treatment of Historic Properties and must be submitted for review by the WVSHPO prior to commencement of work. Any interpretive material, such as signs, posters or brochures, will be submitted for review by the WVSHPO and the WVDOH. The HLC will provide status reports summarizing progress and financial information in writing or via email to the WVDOH every six (6) months.

VI. Duration

This MOA will expire if its stipulations are not carried out within five (5) years from the date of its execution. At such time, and prior to work continuing on the Project, the FHWA shall either (a) execute a MOA pursuant to 36 CFR 800.6, or (b) request, take into account, and respond to the comments of the ACHP under 36 CFR 800.7. Prior to such time, FHWA may consult with other signatories to reconsider the terms of the MOA and amend it in accordance with Stipulation X below. The FHWA shall notify the signatories as to the course of action it will pursue.

Hartland Bridge Replacement Memorandum of Agreement Page - 3 –

VII. Post-Review Discoveries

If any unanticipated discoveries of historic properties or archaeological sites, including human burial sites and/or skeletal remains, are encountered during the implementation of this Project, work shall be suspended in the area of the discovery until the WVDOH has developed and implemented an appropriate treatment plan in consultation with the WVSHPO pursuant to 36 CFR 800.13(b).

VIII. Monitoring and Reporting

Each year following the execution of this MOA until it expires or is terminated, the FHWA shall provide all parties to this MOA a summary report detailing work carried out pursuant to its terms. Such report shall include any scheduling changes proposed, any problems encountered, and any disputes and objections received in the FHWA's efforts to carry out the terms of this MOA.

IX. Dispute Resolution

Should any signatory or concurring party to this MOA object at any time to any actions proposed or the manner in which the terms of this MOA are implemented, the FHWA shall consult with such party to resolve the objection. If the FHWA determines that such objection cannot be resolved, the FHWA will:

- A. Forward all documentation relevant to the dispute, including the FHWA's proposed resolution, to the ACHP. The ACHP shall provide FHWA with its advice on the resolution of the objection within thirty (30) days of receiving adequate documentation. Prior to reaching a final decision on the dispute, the FHWA shall prepare a written response that takes into account any timely advice or comments regarding the dispute from the ACHP, signatories and concurring parties, and provide them with a copy of this written response. The FHWA will then proceed according to its final decision.
- B. If the ACHP does not provide its advice regarding the dispute within the thirty (30) day time period, the FHWA may make a final decision on the dispute and proceed accordingly. Prior to reaching such a final decision, the FHWA shall prepare a written response that takes into account any timely comments regarding the dispute from the signatories and concurring parties to the MOA, and provide them and the ACHP with a copy of such written response.
- C. The FHWA's responsibility to carry out all other actions subject to the terms of this MOA that are not the subject of the dispute remain unchanged.

X. Amendments

Hartland Bridge Replacement Memorandum of Agreement Page - 4 —

This MOA may be amended when such an amendment is agreed to in writing by all signatories. The amendment will be effective on the date a copy signed by all of the signatories is filed with the ACHP.

XI. Termination

If any signatory to this MOA determines that its terms will not or cannot be carried out, that party shall immediately consult with the other parties to attempt to develop an amendment per Stipulation X, above. If within thirty (30) days (or another time period agreed to by all signatories) an amendment cannot be reached, any signatory may terminate the MOA upon written notification to the other signatories.

Once the MOA is terminated, and prior to work continuing on the Project, the FHWA must either (a) execute a MOA pursuant to 36 CFR 800.6, or (b) request, take into account, and respond to the comments of the ACHP under 36 CFR 800.7. The FHWA shall notify the signatories as to the course of action it will pursue.

EXECUTION of this Memorandum of Agreement by the FHWA, the WVSHPO, the WVDOH and the ACHP, and implementation of its terms evidence that the FHWA has afforded the ACHP an opportunity to comment on the Hartland Bridge Replacement project and its effects on historic properties, and that the FHWA has taken into account the effects of the Project on the historic property.

Federal Highway Administration

Date

Hartland Bridge Replacement Memorandum of Agreement Page - 5 – West Virginia Deputy State Historic Preservation Officer APPROVED: Advisory Council on Historic Preservation Date CONCUR: West Virginia Division of Highways Date CONCUR:

Date

Clay County Historic Landmarks Commission

 Hartland Bridge Replacement Memorandum of Agreement Page - 6 --

CONCUR:

Clay County Commission

Date