

Bridge Number:

A3T75

Route/County:

47 / Washington

Asbestos-Containing Material Present?

Yes:

No:

If yes, see report for location(s).

Structural Steel Present?

Yes:

No:

If No, then skip the following.

Lead-Based Paint (LBP) Present?

Yes:

No:

Trusses LBP?

Yes: No:

Girder LBP? *Bracing*

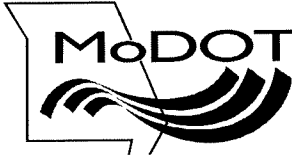
Yes: No:

Railing LBP?

Yes: No:


Pile LBP?

Yes: No:



MEMORANDUM

Missouri Department of Transportation
Construction and Materials
Central Laboratory

TO: TMS
FROM: Diane Roegge 
Environmental Chemist
DATE: May 18, 2017
SUBJECT: Materials
Asbestos Inspection & Heavy Metal Paint Survey
Route 47
Bridge A-3775
Washington County

We are providing you with the results of the inspection on the above referenced bridge. The inspection report contains an asbestos and a heavy metals survey. The asbestos inspection included identifying suspect asbestos-containing material and NVLAP accredited testing to confirm the presence of asbestos.

Form T746 – This will show if samples were taken, where from, and, if the sample was found to contain asbestos, our estimated quantity of material present. Under the column “Friability Category”, this is the meaning for the following:

N-ACM – No asbestos detected.

I NF – Asbestos is present. Material shall be handled carefully by a licensed abatement worker and kept wet if removing as part of a maintenance activity.

II NF – Asbestos is present. If removal is required for the maintenance activity, use an abatement contractor.

In accordance with Missouri Department of Natural Resources’ Technical Bulletin “Managing Construction and Demolition Waste” dated January 31, 2003, a heavy metal paint survey has been performed on the above referenced bridge. This survey includes locating concrete which has been painted with something other than traffic paint or graffiti, and testing the painted surface(s) to determine if hazardous heavy metals are present. If the bridge is being removed completely, or the maintenance repairs include removing the painted concrete, then, non-hazardous painted concrete may be used as clean fill materials, if properly handled. You must contact the Central Office Design Division for proper handling of the reported painted surfaces.

Although our survey included observing and sampling all accessible areas, it is possible that potentially hidden asbestos-containing materials may exist within the structure. Should you have any questions regarding these reports, please contact me at (573) 526-4359.

db/fr/dr

[http://sp/sites/cm/chemicallab/environmental/shared documents/asbestos/districts/central \(cd\)/mt/a3775/dr17051809.docx](http://sp/sites/cm/chemicallab/environmental/shared%20documents/asbestos/districts/central%20(cd)/mt/a3775/dr17051809.docx)

Attachments

MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS
Asbestos Survey Report
All Suspect ACM

ROUTE: 47
MODOT JOB NO.: N/A
DISTRICT: CD
COUNTY: Washington
DATE OF SURVEY: May 18, 2017
PARCEL NO.: Bridge A-3775

SURVEYED BY: Diane Roegge
CERTIFICATION #: 7020102516MOIR7165
SITE ADDRESS: Over Mineral Fork Creek
TYPE(S) OF STRUCTURE(S): Bridge


Sample ID	Type of Materials	Location of Material	Friability Category	Field Measure
	No samples taken. No suspect ACM located.			
	Bridge Paint is not a suspect ACM per MSDS's on file.			

N-ACM = Non-Asbestos Containing Material I NF = Category I Nonfriable II NF = Category II Nonfriable F = Friable
NAFD = No Asbestos Fiber Detected * = Tested By Point Count Procedure

MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS

Asbestos Survey Report
Nonfriable Asbestos-Containing Materials
(Abatement not required if not made friable during demolition.)

ROUTE: 47
 MODOT JOB NO.: N/A
 DISTRICT: CD
 COUNTY: Washington
 DATE OF TESTS: N/A
 PARCEL NO.: Bridge A-3775

TESTED BY: 
 CERTIFICATION #: 7020102516MOIR7165
 SITE ADDRESS: Over Mineral Fork Creek
 TYPE(S) OF STRUCTURE(S): Bridge

Sample ID	Type of Material	Location of Material	Friability Category	Field Measure	Asbestos Type	Percent
		None Located	I NF			

All necessary work to handle this material is the contractor's responsibility.

I NF = Category I Nonfriable

**MISSOURI DEPARTMENT OF TRANSPORTATION
 CONSTRUCTION AND MATERIALS**
 Asbestos Survey Report
 All materials requiring removal or special handling.

ROUTE: 47
 MODOT JOB NO.: N/A
 DISTRICT: CD
 COUNTY: Washington
 DATE OF TESTS: N/A
 PARCEL NO.: Bridge A-3775

TESTED BY: 
 CERTIFICATION #: 7020102516MOIR7165
 SITE ADDRESS: Over Mineral Fork Creek
 TYPE(S) OF STRUCTURE(S): Bridge

Bid Item No.	Sample ID	Type of Material	Location of Material	Friability Category	Field Measure	Asbestos Type	Percent
			None Located	II NF			
			None Located	F			

II NF = Category I Nonfriable II NF = Category II Nonfriable F = Friable * = Tested By Point Count Procedure

MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS

Metals Survey Report of Painted Concrete, Block, Brick Surfaces for Clean Fill Purposes

ROUTE: 47
MODOT JOB NO.: N/A
DISTRICT: CD
COUNTY: Washington
SURVEYED BY: Diane Roegge
DATE OF SURVEY: May 18, 2017

TESTED BY: N/A
DATE OF TESTS: N/A
PARCEL NO.: Bridge A-3775
SITE ADDRESS: Over Mineral Fork Creek
TYPE(S) OF STRUCTURE(S): Bridge

Sample ID	Color/Location of Material/Substrate	Metals (ppm)							
		As	Cr	Pb	Cd	Se	Ba	Hg	Ag
	No samples taken. No painted surfaces located.								

All results are by XRF unless otherwise indicated: a = USEPA SW-846 Method 3050
b = USEPA SW-846 Method 7471

Expiration Date: 10/25/2017 Certificate Number: 7020102516MOIR7165
Training Date: 10/25/2016

Missouri State Certificate for Asbestos Related Occupations

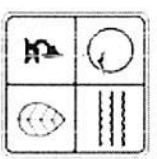
issued by Department of Natural Resources
P.O. Box 1776
Jefferson City, MO 65102
Phone (573) 751-4817

Diane R Roegge

has successfully completed the requirements for certification as a INSPECTOR. This Missouri State Certification is subject to review and the director may deny, suspend or revoke the certification per RSMo chapter 643.230.

12/2/2016
Date

Diane R Roegge
Director of Air Pollution Control Program






MEMORANDUM

Missouri Department of Transportation Construction and Materials Central Laboratory

TO: TMS

FROM: Diane Roegge 
Environmental Chemist, Lead License #110506-300003365

DATE: May 24, 2017

SUBJECT: Materials
Job No. N/A
47/Washington County
Bridge A-3775

On May 18, 2017, a field check for regulated heavy metals was performed on the subject bridge. TMS paint data indicated a System B paint was applied in 1981. During the field check, no stencil was observed, so a paint screening for regulated heavy metals was performed. The following results were obtained:

	17MD1R245
Arsenic (As)	18,030 ppm** (1.8%)
Chromium (Cr)	7,104 ppm (0.7%)
Lead (Pb)	306,246 ppm (30.6%)
Cadmium (Cd)	403 ppm
Selenium (Se)	LOD*
Barium (Ba)	119 ppm
Mercury (Hg)	LOD
Silver (Ag)	LOD

*LOD = below the detection limit of the instrument

**ppm = parts per million

The results verify the information found in TMS.

The existing paint system is lead-based paint (LBP). Therefore any painting project will be subject to DHSS notification and regulation. Additionally be advised that System B paint used basic lead silico chromate so high levels of chromium, another regulated heavy metal, will also be found on this bridge. It is advised that any worker be strongly urged to use proper PPE when dealing with this material.

Should any further screenings be required, please contact Todd Bennett, Chemical Laboratory Director, at (573) 751-1045. Should you have any questions regarding the screenings, feel free to call me at (573) 526-4359.

fr/dr

[http://sharepoint/systemdelivery/cm/chemicallab/environmental/shared documents/asbestos/districts/central \(cd\)/mt/a3775/lbp_a3775.docx](http://sharepoint/systemdelivery/cm/chemicallab/environmental/shared/documents/asbestos/districts/central(cd)/mt/a3775/lbp_a3775.docx)



**Missouri Department of Transportation
State Bridge Inspection Report**

December 19, 2022
10:50:09AM

COUNTY: WASHINGTON

DISTRICT: CD

CLASS: STATBR

FED-ID: 3139

BRIDGE: A3775

*****GENERAL STRUCTURE INFORMATION*****

*****BRIDGE INSPECTION INFORMATION*****

ROUTE: MO47S
FEATURE: MINERAL FK CR
STATUS: A-OPEN
LOG MILE: 97.032
DETOUR: 35.00 MILES
NHS: NO
BUILT: 1981
REHAB:
LOCATION: S 2066 T 39 R 3 E
LATITUDE: 38 5 44.86 (DMS)
LONGITUDE: 90 44 50.61 (DMS)

SPANS: 7
LANES ON: 2
LANES UNDER: 0
COMPASS DIRECTION: WEST to EAST
DIRECTION OF TRAFFIC: 2-WAY TRAF
FUNCTIONAL CLASS: RL-MINOR ARTERIAL
NBI OWNER: MODOT
NBI MAINTAINED: MODOT
MAINTENANCE DISTRICT: CD
MAINTENANCE COUNTY: WASHINGTON
SUB AREA: 7D43

PLACE CODE: 38882 KINGSTON
LENGTH: 422 FT 0 IN
MAXIMUM SPAN: 60 FT 8 IN
APPROACH ROADWAY: 28 FT 0 IN
CURB TO CURB: 40 FT 0 IN
OUT TO OUT: 42 FT 8 IN
AADT: 1596
AADT YEAR: 2021
AADT TRUCK: 14.2%
FUTURE AADT: 2394
FUTURE AADT YEAR: 2041

DATE: 06/16/2022 RESPONSIBILITY: DISTRICT
FREQUENCY: 24 CALCULATED INTERVAL**: 21
TEAM LEADER: MICHAEL MEYERHOFF ELEMENT: NO
INSPECTOR 2: JOE GREEN INSPECTOR 4:
INSPECTOR 3:
** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

GENERAL INSPECTION COMMENTS

(RAITHK, 11/13/2020)--NORTH TO SOUTH

*****FRACTURE CRITICAL INSPECTION INFORMATION*****

*****INDEPTH INSPECTION INFORMATION*****

DATE: RESPONSIBILITY: CATEGORY:
FREQUENCY: CALCULATED INTERVAL**:
TEAM LEADER: INSPECTOR 3:
INSPECTOR 2: INSPECTOR 4:
** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

DATE: RESPONSIBILITY: CATEGORY:
FREQUENCY: CALCULATED INTERVAL**:
TEAM LEADER: INSPECTOR 3:
INSPECTOR 2: INSPECTOR 4:
** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

FRACTURE CRITICAL INSPECTION COMMENTS

INDEPTH INSPECTION COMMENTS

*****SPECIAL INSPECTION INFORMATION*****

*****UNDERWATER INSPECTION INFORMATION*****

DATE: 09/17/2014 RESPONSIBILITY: DISTRICT CATEGORY: CHANNEL CROSS SEC'
FREQUENCY: 120 CALCULATED INTERVAL**:
TEAM LEADER: INSPECTOR 3: ALAN TRAMPE NBI: NO
INSPECTOR 2: JEFF MADSEN INSPECTOR 4: METHOD:

DATE: 06/16/2022 RESPONSIBILITY: DISTRICT CATEGORY: SHALLOW-WADE
FREQUENCY: 60 CALCULATED INTERVAL**:
TEAM LEADER: MICHAEL MEYERHOFF INSPECTOR 3: NBI: NO
INSPECTOR 2: JOE GREEN INSPECTOR 4: METHOD: PROBE
** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

SPECIAL INSPECTION COMMENTS

UNDERWATER INSPECTION COMMENTS

OTHER SPECIAL INSPECTIONS

OTHER UNDERWATER INSPECTIONS

DATE	FREQUENCY	CATEGORY	NBI	CALCULATED INTERVAL	RESPONSIBILITY	METHOD
05/05/2011	999	QUALITY ASSURANCE	NO		BRIDGEDIV	

DATE	FREQUENCY	CATEGORY	NBI	CALCULATED INTERVAL	RESPONSIBILITY	METHOD
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STRUCTURE POSTING

APPROVED CATEGORY: S-1 NO POSTING REQUIRED
Ton 1: Ton 2: Ton 3:
COMMENTS:

FIELD CATEGORY: S-1 NO POSTING REQUIRED
Ton 1: Ton 2: Ton 3: PROBLEM: PROBLEM DIRECTION:
COMMENTS:

GENERAL COMMENTS/MAJOR RATED ITEMS

GENERAL COMMENTS: (BOWDEJ1, 02/09/2007)--(60'-60'-60'-60'-60'-60') P/S CONC I-GDR SPANS

[ITEM 58] DECK: 6-SATISFACTORY CONDITION COMMENTS: (MADSEJ, 04/23/2020)--EXCESSIVE TRANSVERSE CRACKS WITH LIGHT EFFLORESCENCE THROUGHOUT THE DECK. LESS THAN 10% DELAMINATIONS AND SPALLS THROUGHOUT THE BOTTOM OF THE SPAN 5, 6, AND 7 DECK.
RATING : 05/18/2001

[ITEM 59] SUPER: 7-GOOD CONDITION COMMENTS: (MADSEJ, 04/23/2020)--FINE VERTICAL CRACKS AT THE END OF A FEW GIRDERS THROUGHOUT THE SUPERSTRUCTURE.
RATING : 04/23/2020

[ITEM 60] SUB: 6-SATISFACTORY CONDITION COMMENTS: (MADSEJ, 04/23/2020)--A FEW LARGE DELAMINATIONS AND SPALLS THROUGHOUT THE BENT 4 BEAMCAP.
RATING : 05/18/2001

[ITEM 61] BANK/CHANNEL: 6-WIDESPREAD MINOR DAMAGE COMMENTS: (MADSEJ, 04/23/2020)--VEGETATION AND DEBRIS IN THE DOWNSTREAM CHANNEL IS SLIGHTLY RESTRICTING FLOW. DRIFT AT THE BENT 3 COLUMNS IS SLIGHTLY RESTRICTING FLOW.
RATING : 05/18/2001

[ITEM 113] SCOUR: 8-STABLE FOR CALCULATED COMMENTS: (MADSEJ, 04/23/2020)--MINOR LOCAL SCOUR AT THE BENT 3 AND 4 COLUMNS
RATING : 05/18/2001
EVALUATION TYPE :

[ITEM 71] WATERWAY ADEQUACY: DECK ABOVE FLOOD ELEV COMMENTS:
RATING : 05/18/2001

[ITEM 72] APPRRDWY ALIGNMENT: 8-VERYGOOD COMMENTS:
RATING : 05/18/2001

RAILING AND APPROACH PAVEMENT COMPONENTS AND RATINGS

[ITEM 36A] BRIDGE RAILING RATING: MEETS CURRENT STANDARDS-1 RATING : 05/18/2001 COMMENTS:
MATERIAL CONSTRUCTION DIRECTION COMMENTS
REINFORCED CONCRETE SAFETY BARRIER CURB BOTH

[ITEM 36B] TRANSITION RAILING RATING: MEETS CURRENT STANDARDS-1 RATING : 10/29/2014 COMMENTS:
MATERIAL CONSTRUCTION DIRECTION COMMENTS
GALVANIZED STEEL THRIE BEAM TO W-BEAM ALL

[ITEM 36C] APPROACH RAILING RATING: MEETS CURRENT STANDARDS-1 RATING : 05/18/2001 COMMENTS:
MATERIAL CONSTRUCTION DIRECTION COMMENTS
GALVANIZED STEEL W-BEAM ALL

[ITEM 36D] RAIL END TREATMENT RATING: MEETS CURRENT STANDARDS-1 RATING : 10/29/2014 COMMENTS:



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<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>
GALVANIZED STEEL	BREKAWAY SYSTEM	ALL	

APPROACH PAVEMENT: *Overall condition assigned for each approach pavemenet component is shown below.

<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>CONDITION*</u>	<u>COMMENTS</u>
ASPHALT	BITUMINOUS MAT	BOTH	GOOD	

*****DRAINAGE, EXPANSION DEVICES, BANK/SLOPE, AND DECK PROTECTIVE COMPONENTS*****

DECK PROTECTIVE COMPONENTS:

<u>SERIES TYPE-#</u>	<u>COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>THICKNESS</u>	<u>YEAR APPLIED</u>	<u>MANUFACTURE</u>	<u>OVERALL CONDITION</u>
MAIN SERIES-1	WEARING SURFACE	ASPHALT	BITUMINOUS SEAL COAT	.4 IN			FAIR
<u>COMMENT:</u>							
	DECK PROTECTION	EPOXY POLYMER	COATED REBAR				
<u>COMMENT:</u>							
	MEMBRANE	NOTAPPLICABLE	NONE				
<u>COMMENT:</u>							
	SECONDARY DECK PROTECTION	LIQUID SEALANT	INTERNALLY SEALED		2016	PAVON INDECK	
<u>COMMENT:</u>							

DRAINAGE COMPONENTS:

<u>COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>
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EXPANSION DEVICE COMPONENTS:

<u>SUB UNIT-#</u>	<u>SUB LABEL</u>	<u>COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>GAP</u>	<u>YEAR APPLIED</u>	<u>MANUFACTURE</u>	<u>OVERALL CONDITION</u>
BENT-4		CLOSED EXPANSION JOINT	ELASTOMERIC	STRIP SEAL				POOR
<u>COMMENT:</u>								
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>COMMENT</u>			
	FAILING	THROUGHOUT		NOT APPLICABLE				

BANK/SLOPE PROTECTION COMPONENTS:

<u>COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>
BANK PROTECTION	ROCK	BLANKET	BOTH	

*****DECK COMPONENTS*****

<u>SPAN TYPE-#</u>	<u>COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>COMMENTS</u>
MAIN SPANS-1	DECK	REINFORCED CONCRETE	CAST-IN-PLACE	
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u> <u>MEASUREMENT</u> <u>COMMENT</u>
	DIAGONAL CRACKS	ENDS	WEST	FEW
	LEACHING	THROUGHOUT		LIGHT
	TRANSVERSE CRACKS	THROUGHOUT		FEW
MAIN SPANS-2	DECK	REINFORCED CONCRETE	CAST-IN-PLACE	
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u> <u>MEASUREMENT</u> <u>COMMENT</u>



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LEACHING THROUGHOUT LIGHT
TRANSVERSE CRACKS THROUGHOUT MANY

MAIN SPANS-3	DECK	REINFORCED CONCRETE	CAST-IN-PLACE			
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
DIAGONAL CRACKS		ENDS	BOTH	FEW		
LEACHING		THROUGHOUT		LIGHT		
PATCHES		AT JOINTS		FEW		
TRANSVERSE CRACKS		THROUGHOUT		FEW		

MAIN SPANS-4	DECK	REINFORCED CONCRETE	CAST-IN-PLACE			
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
DELAMINATION		BOTTOM	THROUGHOUT	SMALL		
DELAMINATION		DRIVING SURFACE		MINOR		(GREENA2, 07/14/2022)--AT JOINT
LEACHING		THROUGHOUT		LIGHT		
TRANSVERSE CRACKS		THROUGHOUT		MANY		

MAIN SPANS-5	DECK	REINFORCED CONCRETE	CAST-IN-PLACE			
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
DIAGONAL CRACKS		ENDS	EAST	FEW		
LEACHING		THROUGHOUT		LIGHT		
TRANSVERSE CRACKS		OVERHANGS		FEW		(RAITHK, 11/13/2020)--T-CRKS LEACHING
TRANSVERSE CRACKS		THROUGHOUT		MANY		

MAIN SPANS-6	DECK	REINFORCED CONCRETE	CAST-IN-PLACE			
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
DELAMINATION		BOTTOM	THROUGHOUT	SMALL		
DIAGONAL CRACKS		ENDS	BOTH	FEW		
LEACHING		THROUGHOUT		LIGHT		
SPALLS		BOTTOM	THROUGHOUT	FEW		
TRANSVERSE CRACKS		THROUGHOUT		MANY		

MAIN SPANS-7	DECK	REINFORCED CONCRETE	CAST-IN-PLACE			
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
DELAMINATION		BOTTOM	THROUGHOUT	FEW		
DIAGONAL CRACKS		ENDS	EAST	FEW		
LEACHING		THROUGHOUT		LIGHT		
TRANSVERSE CRACKS		THROUGHOUT		FEW		

SUPERSTRUCTURE COMPONENTS

<u>SERIES TYPE-#</u>	<u>SPAN TYPE</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>LABEL</u>	<u>COMMENTS</u>
MAIN SERIES-1	CONTINUOUS SPAN	PRESTRESSED CONCRETE	I-GIRDERS		
<u>SPAN</u>	<u>COMPOSITE INDICATOR</u>	<u>LENGTH</u>	<u>WEATHERING STEEL</u>	<u>COMMENTS</u>	
MAIN SPANS-1	COMPOSITE	60 FT 8 IN	NO		
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
VERTICAL CRACKS	DIAPHRAGMS		FEW		
VERTICAL CRACKS	GIRDER ENDS		FINE		(MADSEJ, 04/23/2020)--GIRDER 5 BENT 2



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MAIN SPANS-2 <u>CONDITION</u> VERTICAL CRACKS	COMPOSITE	60 FT 0 IN	NO	<u>LOCATION 1</u> GIRDER ENDS	<u>LOCATION 2</u>	<u>SEVERITY</u> FINE	<u>MEASUREMENT</u>	<u>COMMENT</u> (MADSEJ, 04/23/2020)--GIRDER 1 BENT 2
MAIN SPANS-3 <u>CONDITION</u>	COMPOSITE	60 FT 3 IN	NO	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
MAIN SPANS-4 <u>CONDITION</u> EFFLORESCENCE OTHER	COMPOSITE	60 FT 3 IN	NO	<u>LOCATION 1</u> DIAPHRAGMS DIAPHRAGMS	<u>LOCATION 2</u>	<u>SEVERITY</u> LIGHT NOT APPLICABLE	<u>MEASUREMENT</u>	<u>COMMENT</u> (MADSEJ, 04/23/2020)--THE DIAPHRAGM OVERHANGS THE BEAM CAP APPROXIMATELY 2" IN 2020
VERTICAL CRACKS VERTICAL CRACKS				DIAPHRAGMS GIRDER ENDS		FEW FINE		(MADSEJ, 04/23/2020)--GIRDERS 2, 4, AND 5 AT BENT 5
MAIN SPANS-5 <u>CONDITION</u> COLLISION DAMAGE VERTICAL CRACKS	COMPOSITE	60 FT 0 IN	NO	<u>LOCATION 1</u> EXTERIOR GIRDERS GIRDER ENDS	<u>LOCATION 2</u>	<u>SEVERITY</u> MINOR FINE	<u>MEASUREMENT</u>	<u>COMMENT</u> (MADSEJ, 04/23/2020)--GIRDER 4 AND 5 AT BENT 5
MAIN SPANS-6 <u>CONDITION</u> VERTICAL CRACKS	COMPOSITE	60 FT 0 IN	NO	<u>LOCATION 1</u> GIRDER ENDS	<u>LOCATION 2</u>	<u>SEVERITY</u> FINE	<u>MEASUREMENT</u>	<u>COMMENT</u> (GREENA2, 07/14/2022)--GIRDER 1 AND 5 AT BENT 6 ALSO 1, 3, AND 5 AT BENT 7.
MAIN SPANS-7 <u>CONDITION</u> VERTICAL CRACKS VERTICAL CRACKS	COMPOSITE	60 FT 8 IN	NO	<u>LOCATION 1</u> DIAPHRAGMS GIRDER ENDS	<u>LOCATION 2</u>	<u>SEVERITY</u> FEW FINE	<u>MEASUREMENT</u>	<u>COMMENT</u> (RAITHK, 11/13/2020)--DID NOT SEE 2020 (GREENA2, 07/14/2022)--GIRDERS 1, 3, AND 4 AT BENT 7.

SUBSTRUCTURE COMPONENTS

<u>SUBSTRUCTURE</u>	<u>SKEW</u>	<u>LENGTH</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>LABEL</u>	<u>COMMENTS</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
ABUTMENT-1	RA-20 DEGREES	45 FT 5 IN	REINFORCED CONCRETE	INTEGRAL					
<u>ASSOCIATED COMPONENT</u> BEAM CAP	<u>CONDITION</u>		<u>MATERIAL</u> REINFORCED CONCRETE	<u>CONSTRUCTION</u> CAST-IN-PLACE	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
PILING	<u>CONDITION</u>		STEEL	H-SHAPE	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
TURNED BACK WINGS	<u>CONDITION</u>		REINFORCED CONCRETE	CAST-IN-PLACE	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
FIXED BEARING	<u>CONDITION</u>		ELASTOMERIC	PLAIN NEOPRENE	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
BENT-2	RA-20 DEGREES	43 FT 2 IN	REINFORCED CONCRETE	MULTIPLE COLUMN					
<u>ASSOCIATED COMPONENT</u> BEAM CAP	<u>CONDITION</u>		<u>MATERIAL</u> REINFORCED CONCRETE	<u>CONSTRUCTION</u> CAST-IN-PLACE	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>



**Missouri Department of Transportation
State Bridge Inspection Report**

December 19, 2022
10:50:09AM

COUNTY: WASHINGTON

DISTRICT: CD

CLASS: STATBR

FED-ID: 3139

BRIDGE: A3775

					<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
COLUMN	<u>CONDITION</u>	REINFORCED CONCRETE	<u>LOCATION 1</u>	CAST-IN-PLACE			
FOOTING	<u>CONDITION</u>	REINFORCED CONCRETE	<u>LOCATION 1</u>	SPREAD			
FIXED BEARING	<u>CONDITION</u>	ELASTOMERIC	<u>LOCATION 1</u>	PLAIN NEOPRENE			
BENT-3	RA-20 DEGREES	43 FT 2 IN	REINFORCED CONCRETE	MULTIPLE COLUMN			
<u>ASSOCIATED COMPONENT</u>	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
BEAM CAP	<u>CONDITION</u>	REINFORCED CONCRETE	<u>LOCATION 1</u>	CAST-IN-PLACE			
COLUMN	<u>CONDITION</u>	REINFORCED CONCRETE	<u>LOCATION 1</u>	CAST-IN-PLACE			
FOOTING	<u>CONDITION</u>	REINFORCED CONCRETE	<u>LOCATION 1</u>	SPREAD			
FIXED BEARING	<u>CONDITION</u>	ELASTOMERIC	<u>LOCATION 1</u>	PLAIN NEOPRENE			
BENT-4	RA-20 DEGREES		REINFORCED CONCRETE	MULTIPLE COLUMN			
<u>ASSOCIATED COMPONENT</u>	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
BEAM CAP	<u>CONDITION</u>	REINFORCED CONCRETE	<u>LOCATION 1</u>	CAST-IN-PLACE			
		DRIFT	WATERLINE		MEDIUM AMOUNT		
		DELAMINATION	THROUGHOUT		LARGE		
		DETERIORATION	ENDS	NORTH	MODERATE		
		SPALLS	THROUGHOUT		LARGE		
COLUMN	<u>CONDITION</u>	REINFORCED CONCRETE	<u>LOCATION 1</u>	CAST-IN-PLACE			
		DELAMINATION	TOP	THROUGHOUT	LARGE		
FOOTING	<u>CONDITION</u>	REINFORCED CONCRETE	<u>LOCATION 1</u>	SPREAD			
FIXED BEARING	<u>CONDITION</u>	ELASTOMERIC	<u>LOCATION 1</u>	PLAIN NEOPRENE			
BENT-5	RA-20 DEGREES	43 FT 2 IN	REINFORCED CONCRETE	PILE CAP			
<u>ASSOCIATED COMPONENT</u>	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
BEAM CAP	<u>CONDITION</u>	REINFORCED CONCRETE	<u>LOCATION 1</u>	CAST-IN-PLACE			
PILING	<u>CONDITION</u>	STEEL	<u>LOCATION 1</u>	H-SHAPE			
		RUSTING	GROUND LINE		LIGHT		
FIXED BEARING	<u>CONDITION</u>	ELASTOMERIC	<u>LOCATION 1</u>	PLAIN NEOPRENE			
BENT-6	RA-20 DEGREES	43 FT 2 IN	REINFORCED CONCRETE	PILE CAP			
<u>ASSOCIATED COMPONENT</u>	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
BEAM CAP		REINFORCED CONCRETE		CAST-IN-PLACE			



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BRIDGE: A3775

	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
PILING		STEEL		H-SHAPE			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	RUSTING		GROUND LINE		LIGHT		
FIXED BEARING		ELASTOMERIC		PLAIN NEOPRENE			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
BENT-7	RA-20 DEGREES	43 FT 2 IN	REINFORCED CONCRETE	PILE CAP			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
<u>ASSOCIATED COMPONENT</u>			<u>MATERIAL</u>	<u>CONSTRUCTION</u>			
BEAM CAP			REINFORCED CONCRETE	CAST-IN-PLACE			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
PILING		STEEL		H-SHAPE			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	RUSTING		GROUND LINE		LIGHT		(RAITHK, 11/13/2020)--DID NOT SEE 2020
FIXED BEARING		ELASTOMERIC		PLAIN NEOPRENE			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
ABUTMENT-8	RA-20 DEGREES	45 FT 5 IN	REINFORCED CONCRETE	INTEGRAL			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
<u>ASSOCIATED COMPONENT</u>			<u>MATERIAL</u>	<u>CONSTRUCTION</u>			
BEAM CAP			REINFORCED CONCRETE	CAST-IN-PLACE			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
PILING		STEEL		H-SHAPE			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
TURNED BACK WINGS		REINFORCED CONCRETE		CAST-IN-PLACE			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
FIXED BEARING		ELASTOMERIC		PLAIN NEOPRENE			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>

*****OVER/UNDER ROUTES CLEARANCE INFORMATION*****

<u>CLEARANCES OVER DECK</u>				
<u>VERTICAL CLEARANCE TYPE**</u>	<u>VALUE</u>	<u>DIRECTION</u>	<u>DATE</u>	<u>COMMENT</u>
**NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.				



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CLEARANCES UNDER BRIDGE

**NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.

<u>RECORD #</u>	<u>ROUTE</u>	<u># LANES</u>	<u>DIRECTION OF TRAFFIC</u>	<u>RIGHT LATERAL CLEARANCE</u>	<u>LEFT LATERAL CLEARANCE</u>	<u>UR-ID</u>
<u>VERTICAL CLEARANCE TYPE**</u>	<u>VALUE</u>	<u>DIRECTION</u>	<u>DATE</u>	<u>COMMENT</u>		

*****STRUCTURE PAINT INFORMATION*****

CONDITION:	FAIR	RUST AMOUNT :	7 = .2% OF SURFACE RUSTED	STEEL TONS :	3
	<u>ORIGINAL PAINT</u>		<u>CONTRACT REPAINT</u>		<u>DEPARTMENT REPAINT</u>
	PAINT TYPE : B SYSTEM		PAINT TYPE :		PAINT TYPE :
	NAME : BASIC LEAD CHROMIUM		NAME :		NAME :
	PAINT COLOR : ALUMINUM		PAINT COLOR :		PAINT COLOR :
	PAINT YEAR : 1981		PAINT YEAR :		PAINT YEAR :
	MILS : 8		MILS :		MILS :
					MANUFACTURE :
					SURFACE PREP :

*****REQUESTED WORK ITEMS*****

GENERAL WORK COMMENTS:

<i>RESPONSIBILITY</i>	<i>LOCATION</i>	<i>ITEM</i>	<i>CATEGORY</i>	<i>PRIORITY</i>	<i>DATE</i>	<i>WORK ITEM COMMENT</i>
DISTRICT ROUTINE	WEST	REPAIR APPROACH ROADWAY	APPROACH	3	04/09/2016	
DISTRICT ROUTINE	EAST	REPAIR APPROACH ROADWAY	APPROACH	3	04/09/2016	
DISTRICT SPECIAL	ROADWAY SURFACE	SEAL DECK WITH IN DECK	DECK	3	06/28/2019	
DISTRICT ROUTINE	BENT	REMOVE DRIFT	CHANNEL	1	04/21/2020	
DISTRICT SPECIAL	BENT	REPAIR EXPANSION DEVICE	EXPANSION DEVICE	1	09/03/2020	(RAITHK, 11/13/2020)--ASAP
CONTRACT	BENT-COLUMN	REPAIR COLUMN OR SHAFT	SUBSTRUCTURE	3	09/03/2020	
CONTRACT	BENT-CAPS	REPAIR BEAM CAP	SUBSTRUCTURE	3	09/03/2020	

*****UTILITY ATTACHMENTS*****

<i>UTILITY</i>	<i>OWNER</i>	<i>METHOD</i>	<i>MEASUREMENT TYPE</i>	<i>VALUE</i>	<i>NUMBER</i>	<i>UTILITY ATTACHMENT COMMENT</i>
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*****PROGRAM NOTES INFORMATION*****

Design_No = a3775



**Missouri Department of Transportation
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COUNTY: WASHINGTON

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<u>YEAR</u>	<u>PROJECT #</u>	<u>MONTH LET</u>	<u>YEAR LET</u>	<u>ITEMS</u>	<u>COMMENT</u>
COMPUTER GENERATED RATINGS AND DEFICIENCY ITEMS					***ADVANCED SIGN INFORMATION***
NOTE: The items listed in this section are updated whenever computer edits are ran on a structure after the inspection updates have been entered in to TMS.					SIGN #
Rated Item	Rating	Rating Date			SIGN TYPE
[Item 67] Structure Evaluation Rating:	6-EQ TO PRESENT MIN CRITR	3/25/2002			PROBLEM
[Item 68] Deck Geometry Rating:	7-BETTER THAN PRESENT MIN	3/5/2019			PROBLEM DIRECTION
[Item 69] Underclearance:	N-NOT APPLICABLE	5/18/2001			
Sufficiency Rating:	85.0%	2/22/2022			
Deficiency:	NOT DEFICIENT	5/18/2001			
Funding Eligibility:		----			***OUTFALL INSPECTION INFORMATION***
Estimated New Structure Length:		----			# OUTFALLS:
Estimated Structure Cost:		----			INSPECTOR:
Estimated Total Project Cost:		----			STATUS:
Year of Cost Estimate:		----			DATE:
					NOTES:
NOTE: The above structure length and cost estimates are computer generated using algorithms in the TMS system. These algorithms are generalized to use NBI items to come up with a new structure length and width to calculate a new area which is taken times a representative cost per square foot. The actual structure size and cost may vary significantly from these numbers once site specific engineering is done.					



COUNTY: WASHINGTON

DISTRICT: CD

**Missouri Department of Transportation
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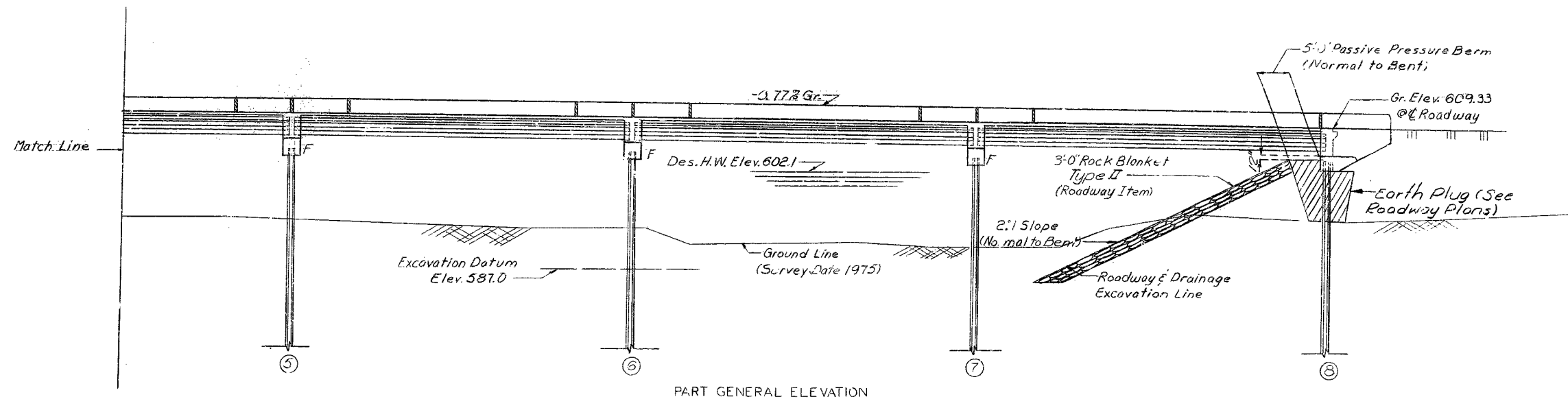
CLASS: STATBR

FED-ID: 3139

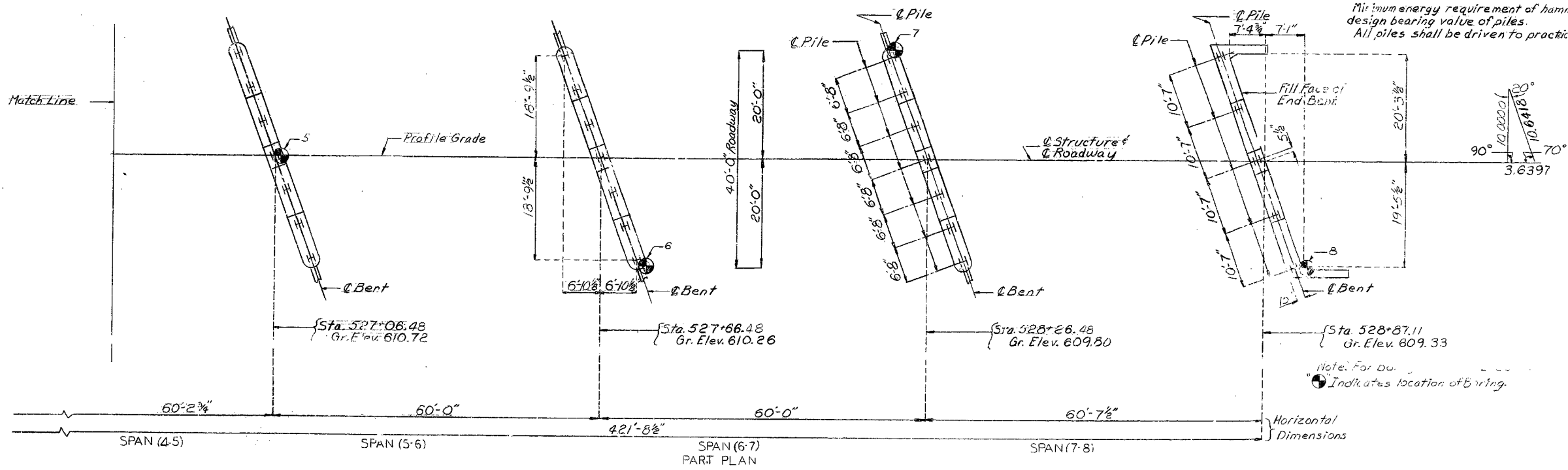
BRIDGE: A3775

December 19, 2022
10:50:09AM

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	NO.		19	15	



		PILE & FOOTING DATA							
		BENT NO.							
		1	2	3	4	5	6	7	8
BEARING PILE	Pile Type/Size	HP10x42		HP10x42					
	Number	5				7	7	7	5
	Approximate Length Ft.	39				31	31	29	29
	Design Bearing Tons	47				53	53	53	47
SPREAD FOOTINGS		Foundation Material		Rock		Rock		Rock	
		Design Bearing Tons/Sq. Ft.		11		11		12	



Minimum energy requirement of hammer based on plan length and design bearing value of piles.
All piles shall be driven to practical refusal.

Note: For Du.
⊙ Indicates location of Boring.

359

DETAILED AUG. 1977
CHECKED JUNE 1978

Note: This drawing is not to scale. Follow dimensions.

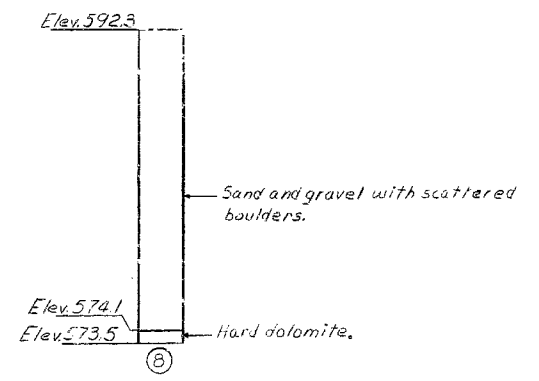
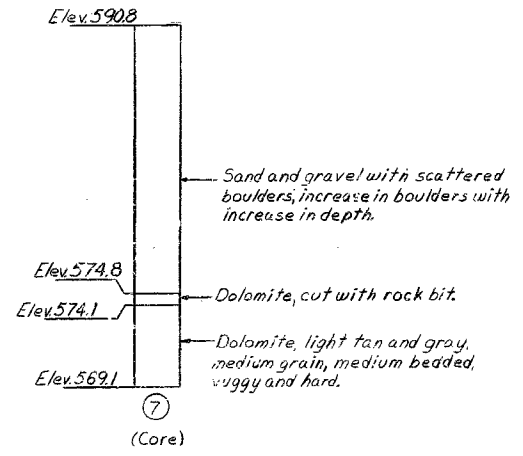
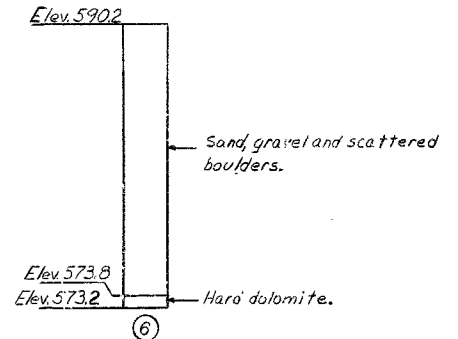
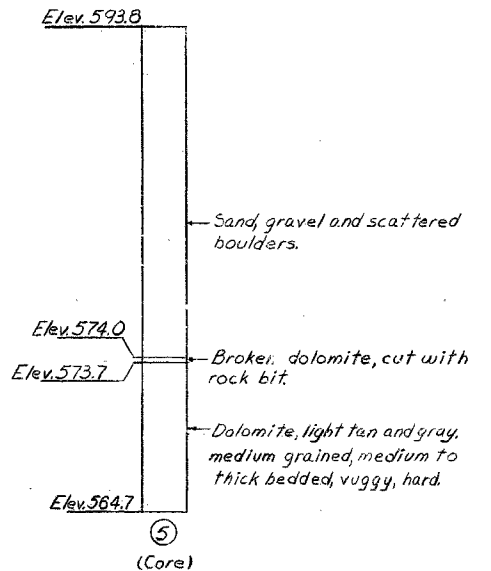
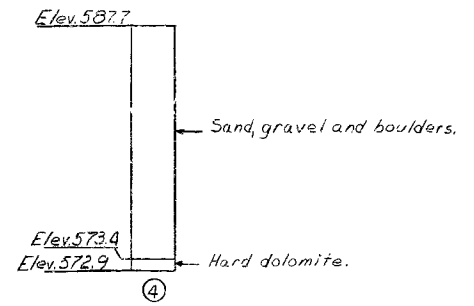
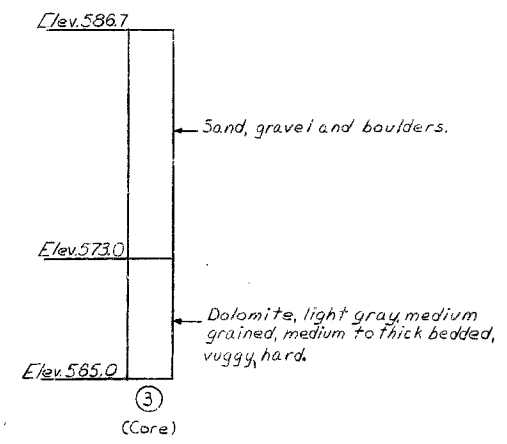
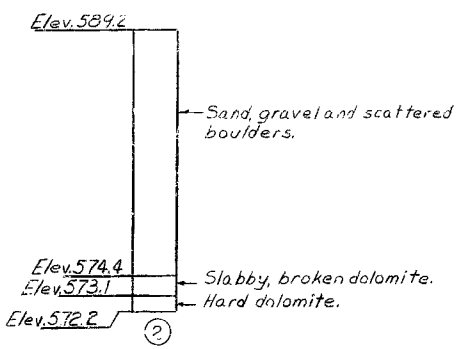
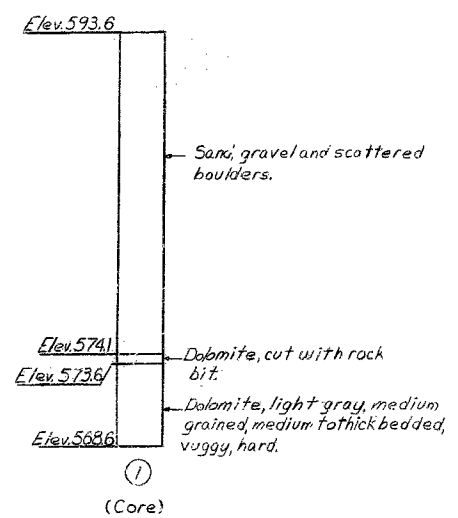
Sheet No. 2 of 20

WASHINGTON

COUNTY

A-3773

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
5	MO.		16	

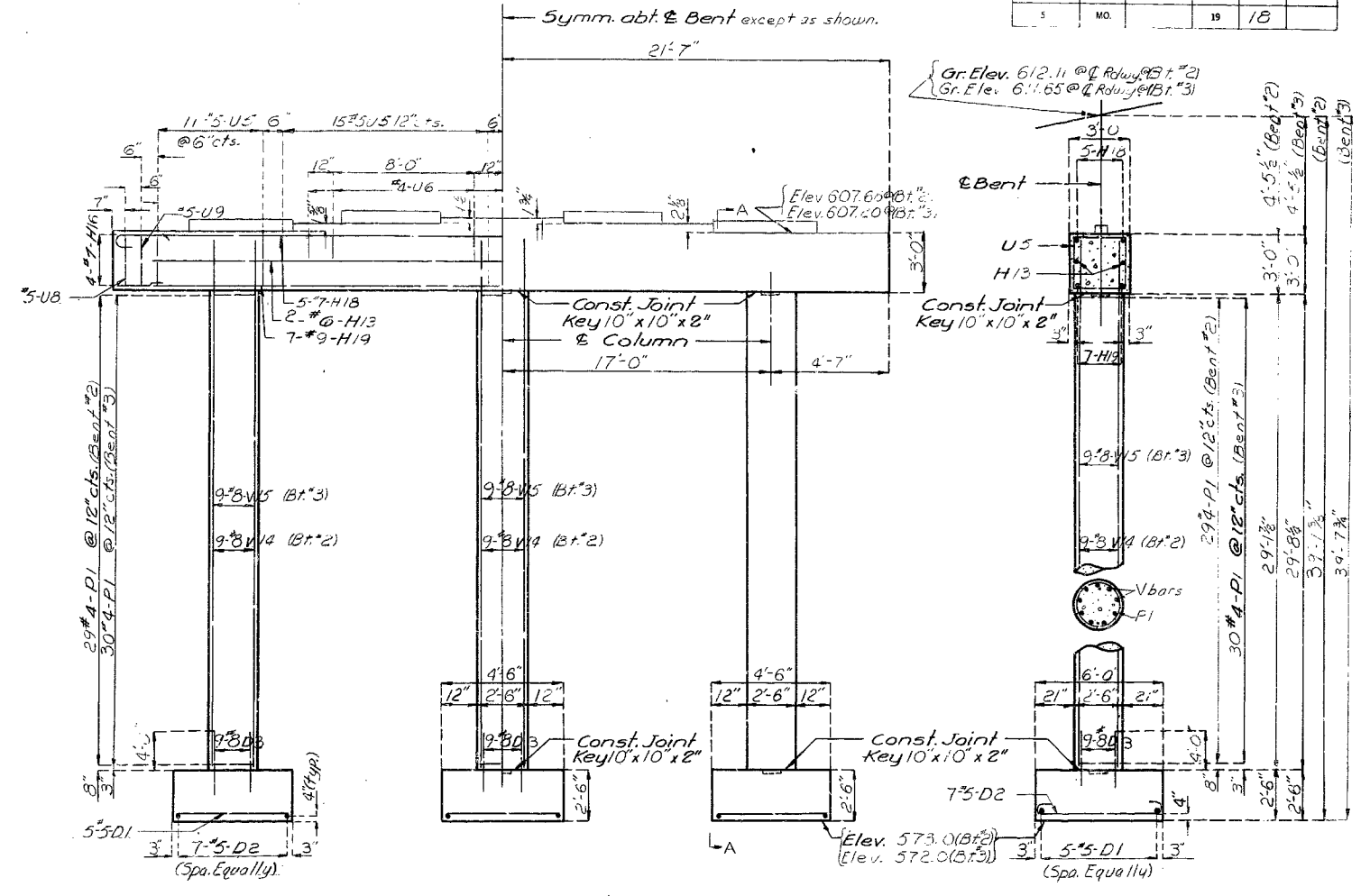


BORING DATA

Note: For location of borings see Sheet No. 1 & 2.

360

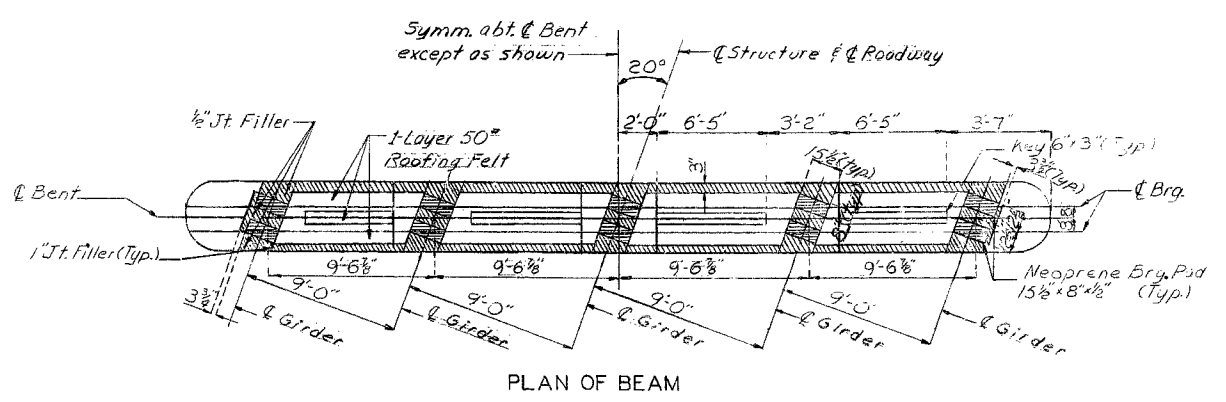
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5	MO.		19	18	



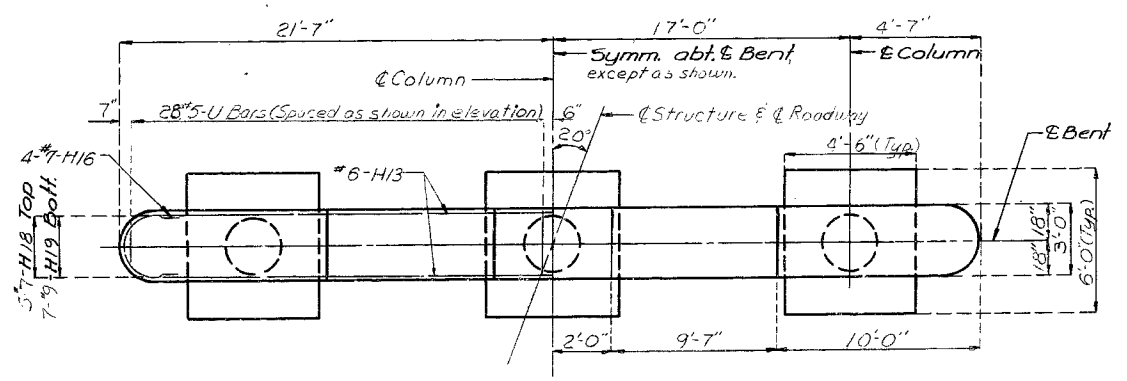
DETAIL OF KEY

ELEVATION

SECTION A-A



PLAN OF BEAM



PLAN DETAILS OF INTERMEDIATE BENT NO. 2&3.

Note: Footing Reinforcement is same for Interior & Exterior footing.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 5 of 20.

WASHINGTON COUNTY

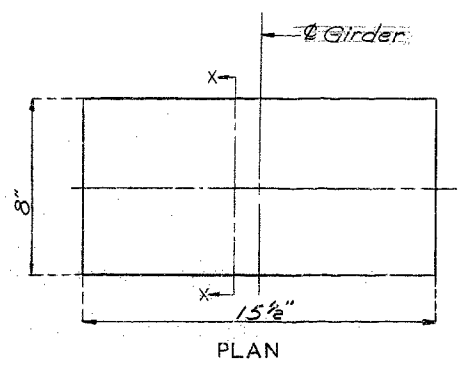
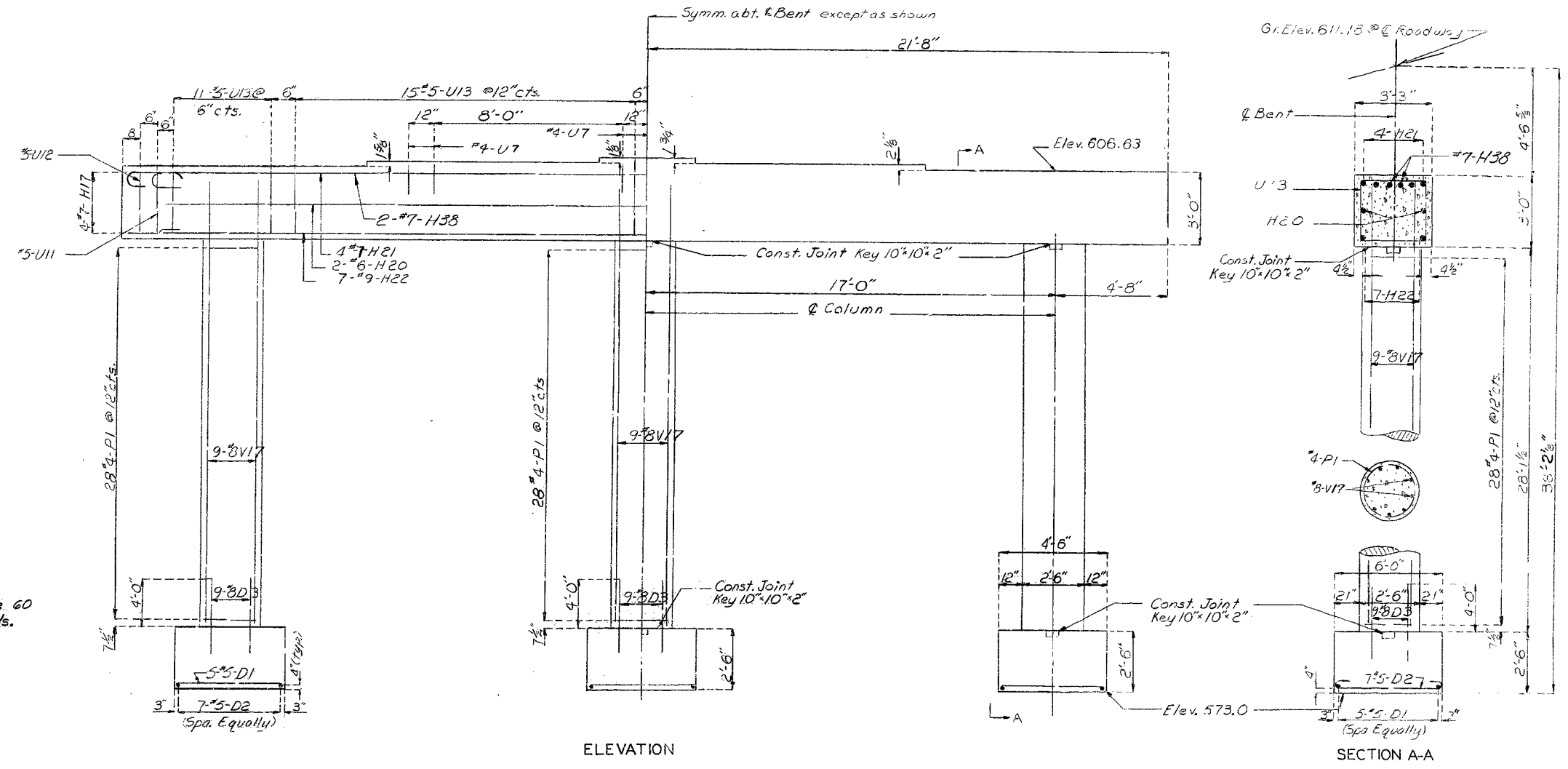
A-3775

362

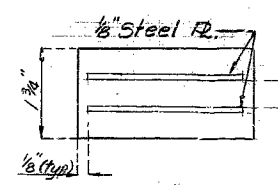
STD. 19.5
JAN. 1965
REVISED
JUNE 1974

DETAILED JULY 1977
CHECKED MAY 1978

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	19	



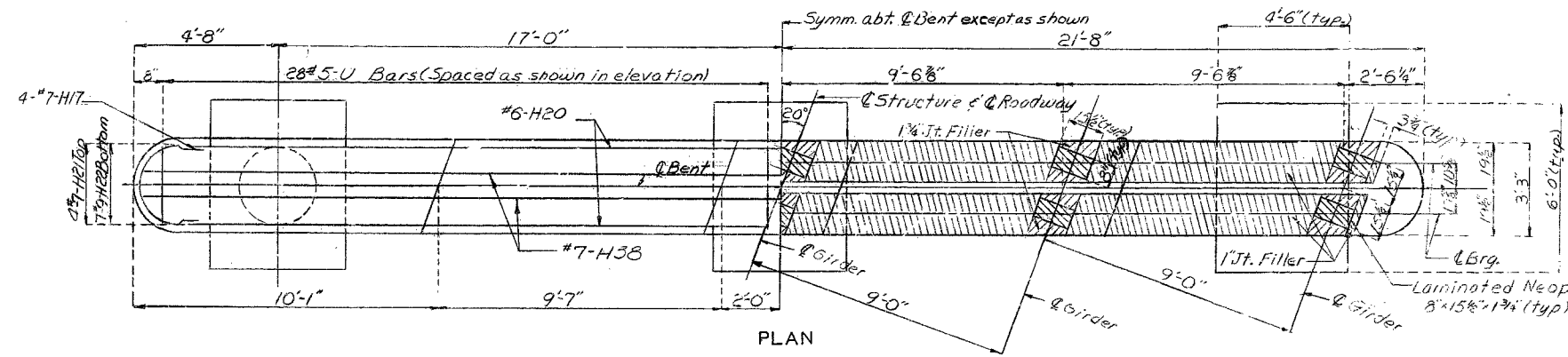
PLAN



SECTION X-X

DETAIL OF LAMINATED NEOPRENE BRG. PAD BENT NO. 4

Note: Bearings shall be 60 durometer Neoprene Pads. Steel Pl. shall be 36.



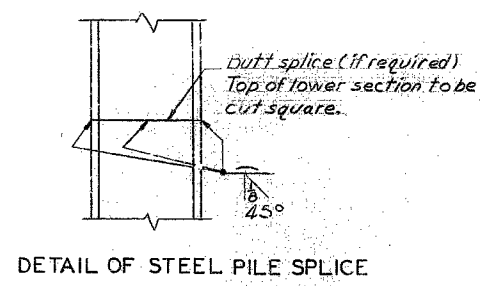
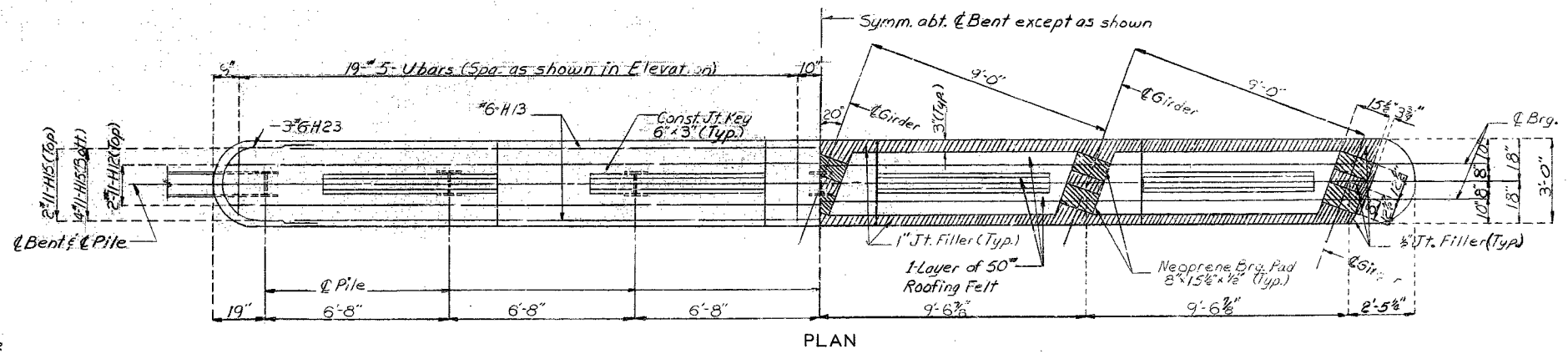
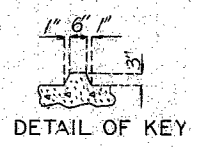
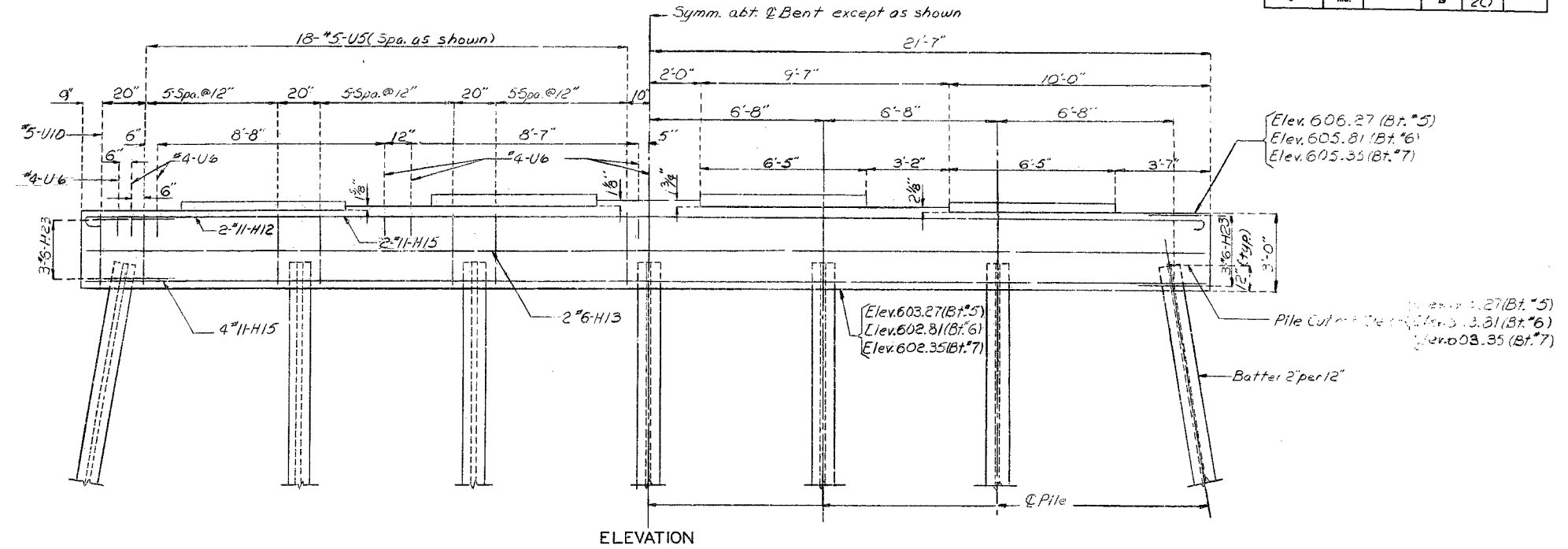
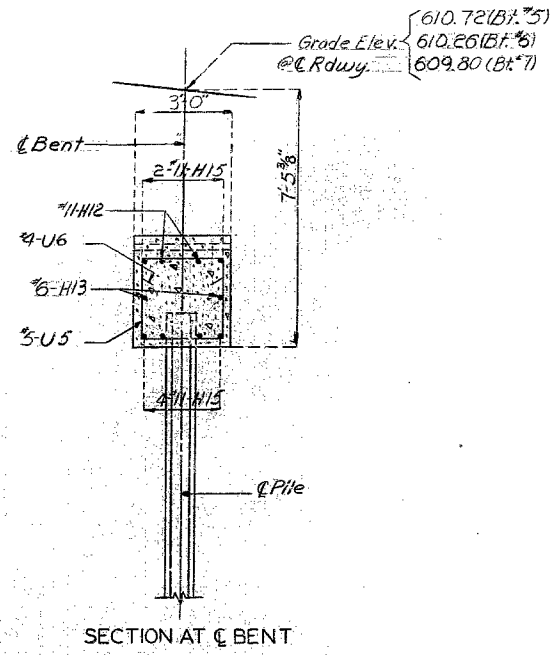
PLAN

DETAILS OF INTERMEDIATE BENT NO. 4

Note: Footing reinforcement is same for Interior & Exterior footing.

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MD.		19	20	



DETAILS OF INTERMEDIATE BENTS NO. 5, 6 & 7

364

DETAILED JULY 1977
CHECKED MAY 1978

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 7 of 20

WASHINGTON

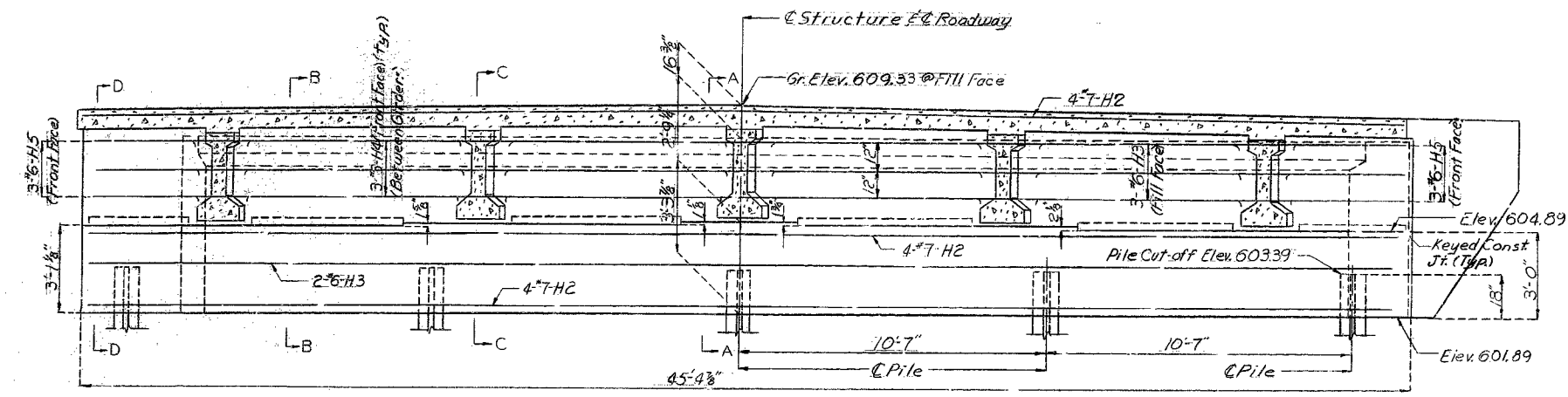
COUNTY

A-3775

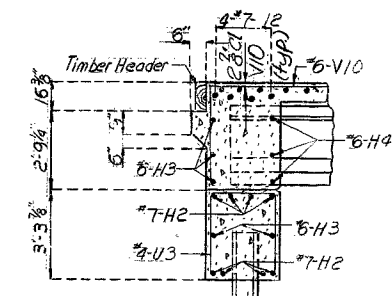
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		13	21	

Note: For location of coil ties see sheet No. 9
 For details of barrier curb see sheet No. 16 & 17
 All U-bars in End Bent are to be placed parallel to C Roadway.
 Bend F bars in field to clear prestressed beam flange.
 For detail of Timber Header see Sheet No. 16

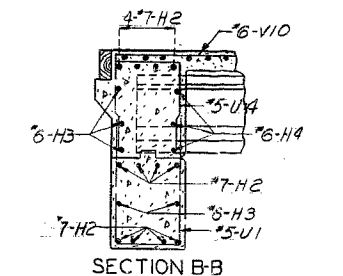
All concrete in the end bents above lower const. jt. shall be Class B2



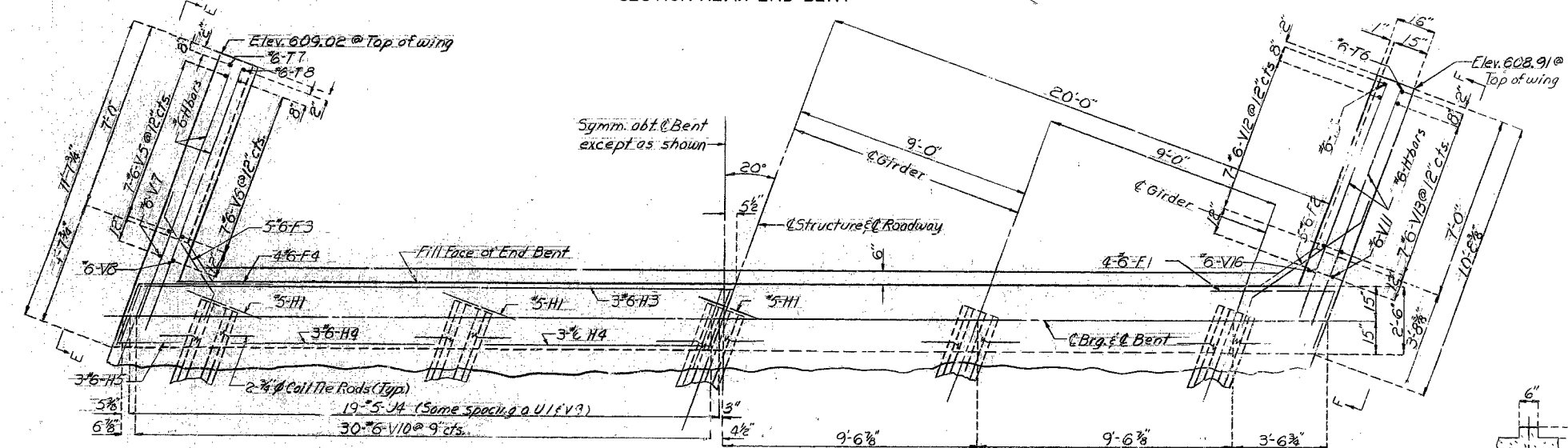
SECTION NEAR END BENT



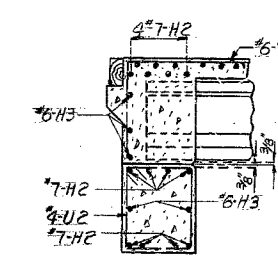
SECTION A-A



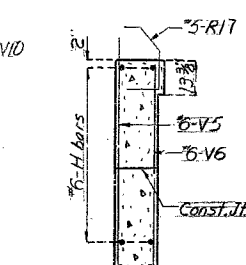
SECTION B-B



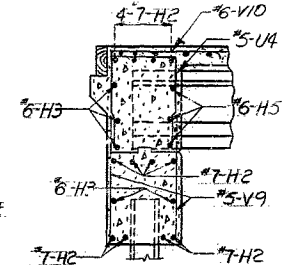
PART PLAN



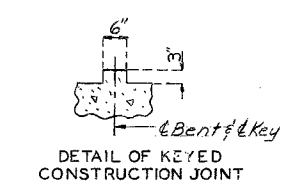
SECTION C-C



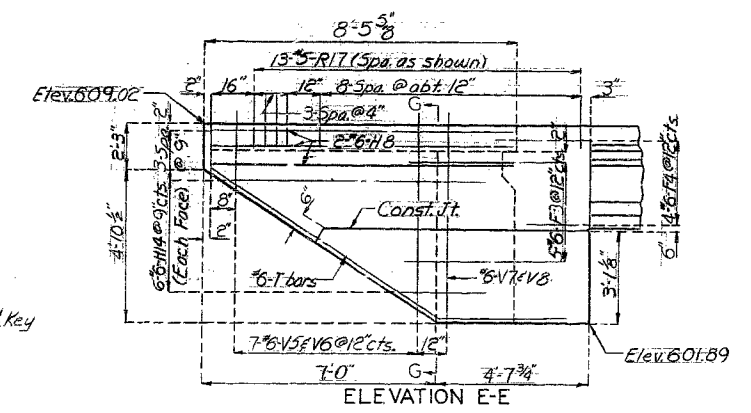
SECTION G-G



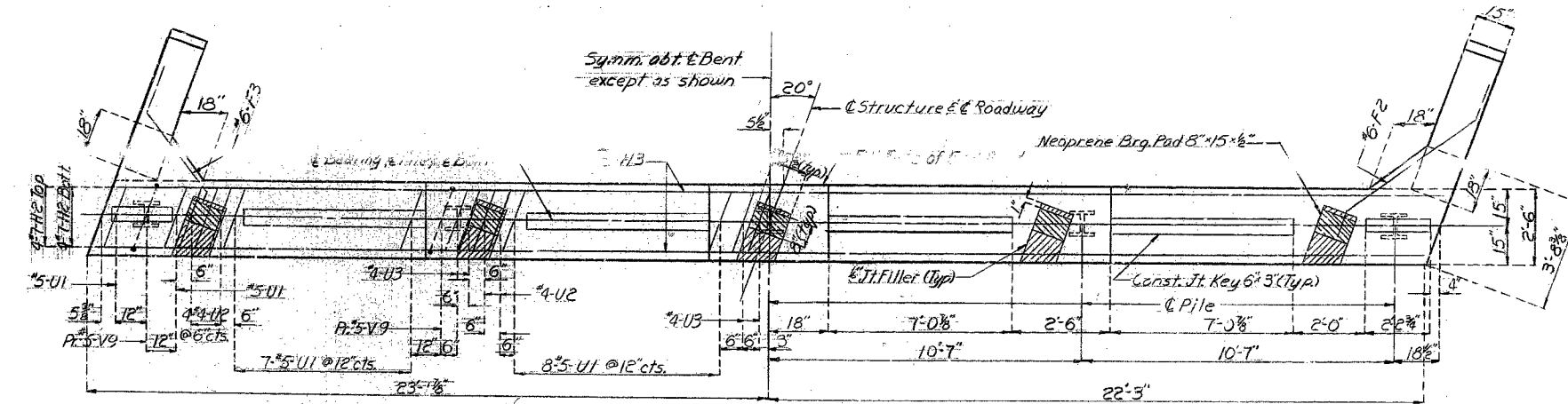
SECTION D-D



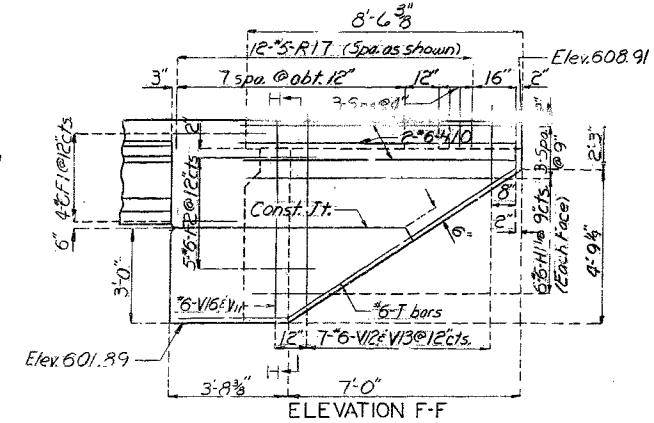
DETAIL OF KEYED CONSTRUCTION JOINT



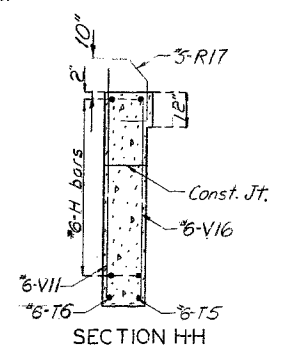
ELEVATION E-E



PLAN OF BEAM (BELOW LOWER CONST. JOINT)



ELEVATION F-F



SECTION H-H

36.5

DETAILED AUG. 1977
 CHECKED MAY 1978

Note: This drawing is not to scale. Follow dimensions.

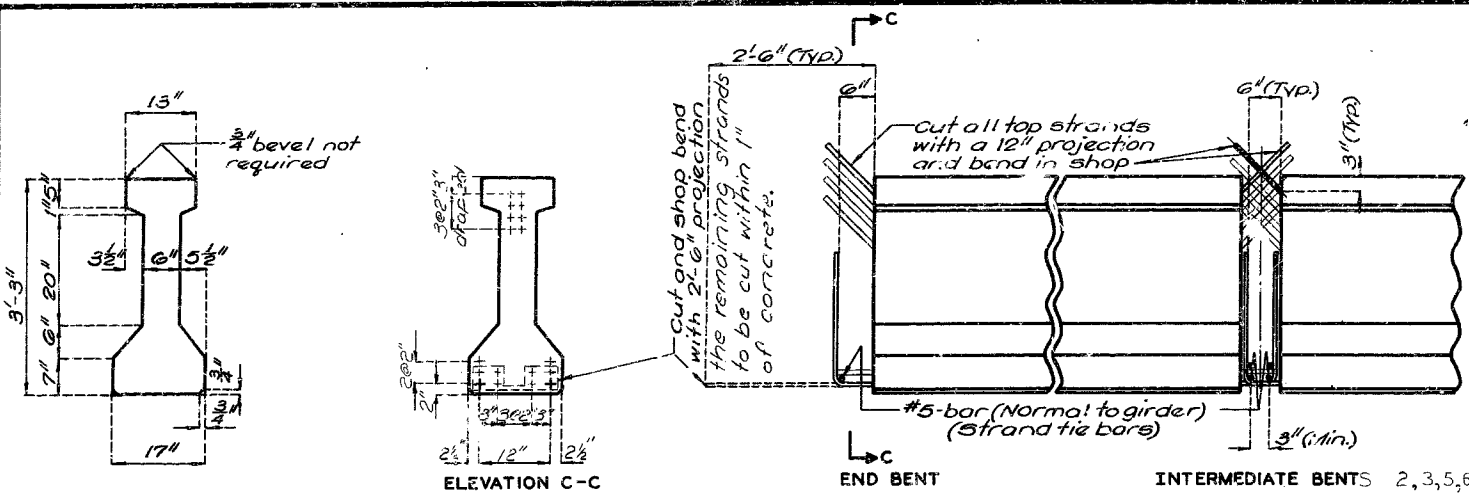
Sheet No. 8 of 20.

WASHINGTON COUNTY

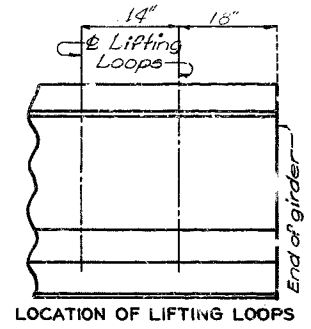
A-3775

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	22	

BILL OF REINFORCING STEEL—EACH GIRDER				BENDING DIAGRAMS	
NO.	SIZE & MARK	LENGTH	SHAPE		
2	5A1	59'-2"	20	SHAPE 10	
128	5B1	3'-10"	19S	SHAPE 9S	
8	5B2	3'-0"	19S	SHAPE 19S	
64	4B3	2'-8"	50S	SHAPE 50S	
64	3C1	13"	10	SHAPE 20	
128	3D1	2'-11"	9S	SHAPE 19S	



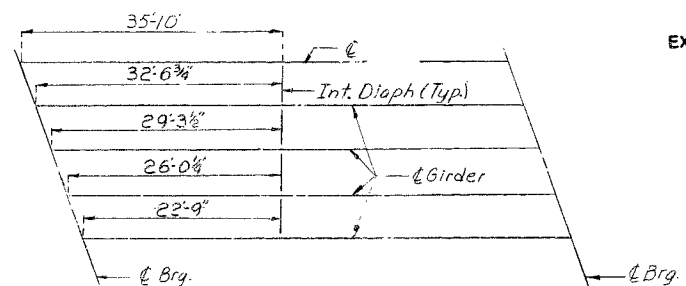
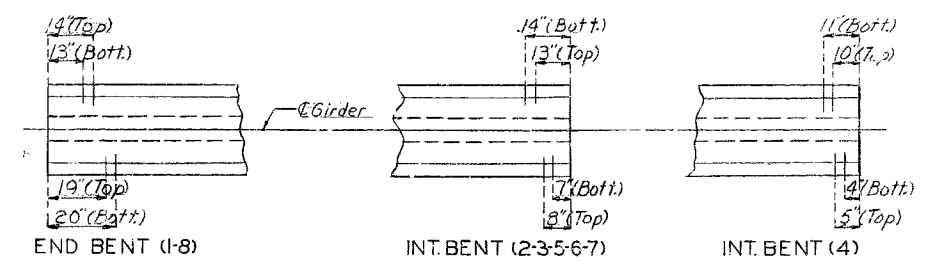
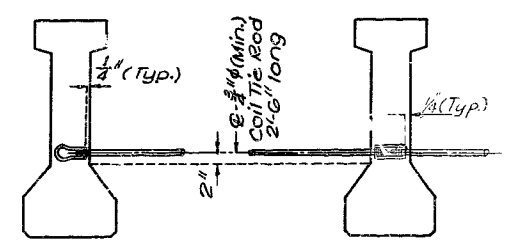
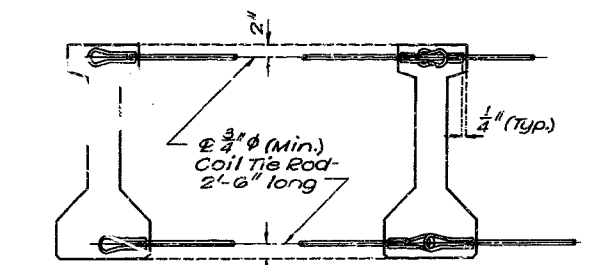
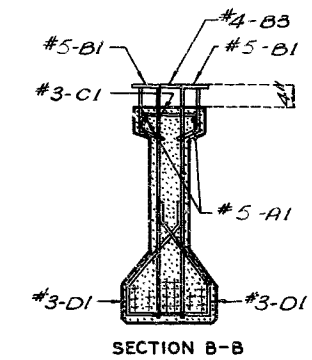
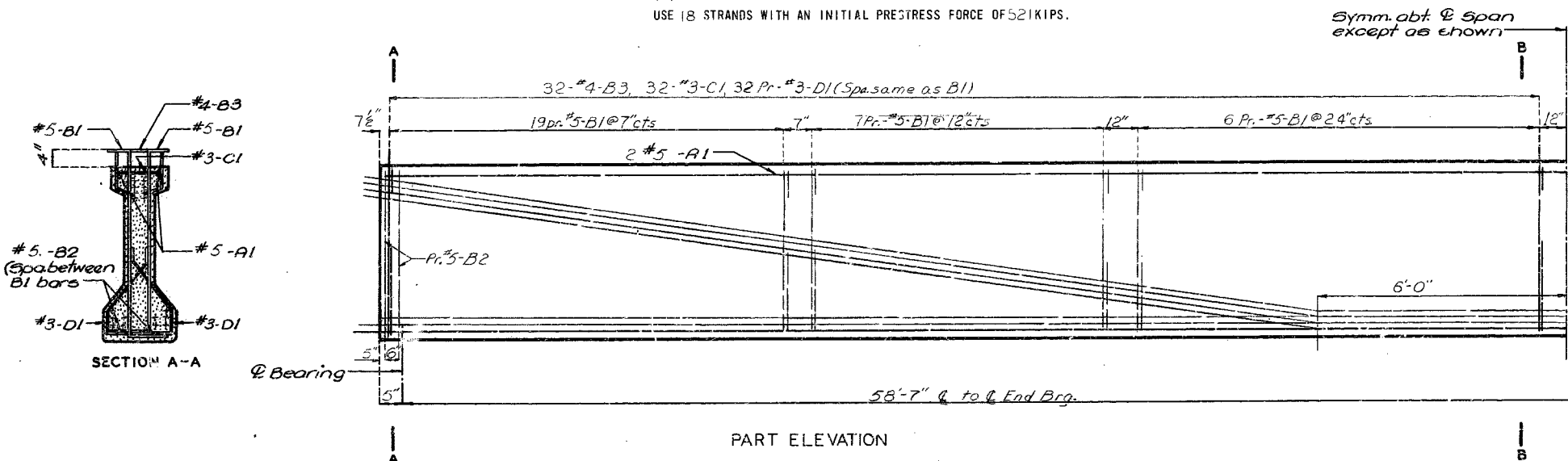
Note: Cut all strands to within 1" of concrete @ Bent No. 4.



Note: Coil ties shall be held in place in the forms by slotted wire-setting-studs projecting thru forms. Studs are to be left in place or replaced with temporary plug until girders are erected and then replaced by coil tie rods.

NOTES:
 CONCRETE FOR PRESTRESSED GIRDERS SHALL BE CLASS A1 WITH $f'c = 5,000$ psi.
 (+) INDICATES PRESTRESSED STRAND.
 USE 18 STRANDS WITH AN INITIAL PRESTRESS FORCE OF 521 KIPS.

NOTE: ALL DIMENSIONS ARE OUT TO OUT.
 WHERE DEFLECTING STRANDS INTERFERE WITH PLACEMENT, SOME IN-PLACE BENDING MAY BE NECESSARY.
 HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE CRSI MANUAL OR STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES.
 THE LETTER S AFTER THE SHAPE NUMBER, IN BENDING SKETCHES, INDICATES BARS THAT ARE TO BE BENT ACCORDING TO CRSI STIRRUP AND TIE DIMENSIONS.
 LENGTH - TOTAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.
 MINIMUM CLEARANCE TO REINFORCING SHALL BE 1".



Note: Cost of 3/4" coil tie rods placed in diaphragms is included in price bid for prestressed members.

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STD. 55.3.6 REVISED APRIL 1973
 APRIL 1973
 REVISED FEB. 1977

DETAILED JULY 1977
 CHECKED MAY 1978

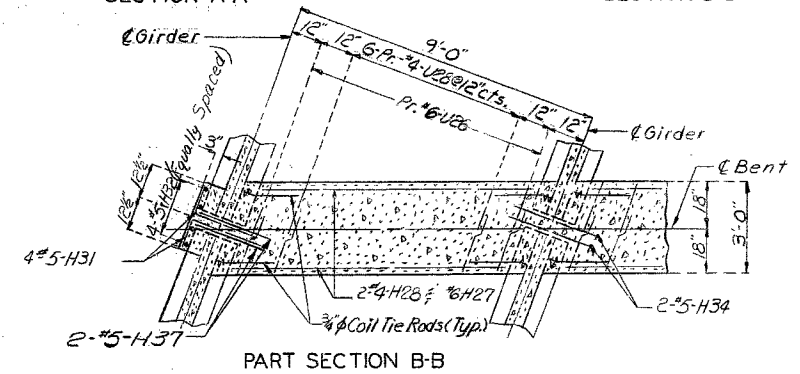
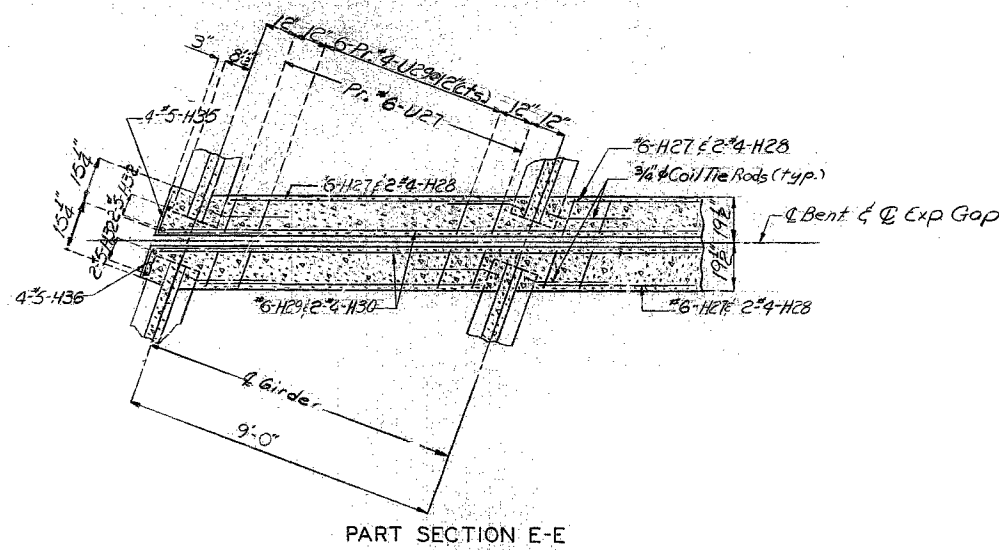
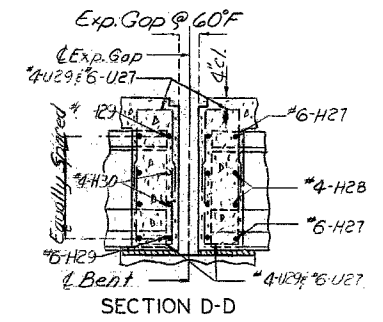
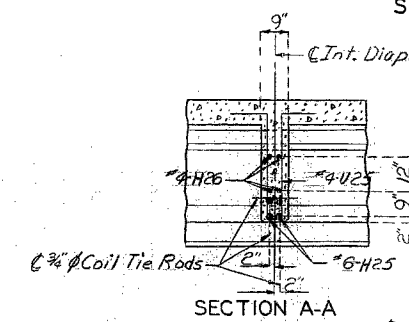
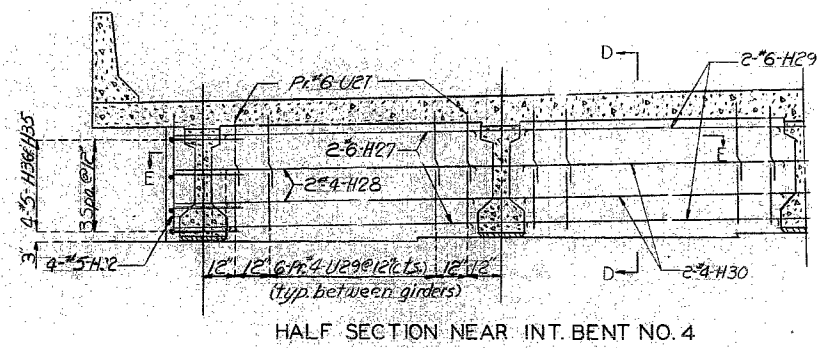
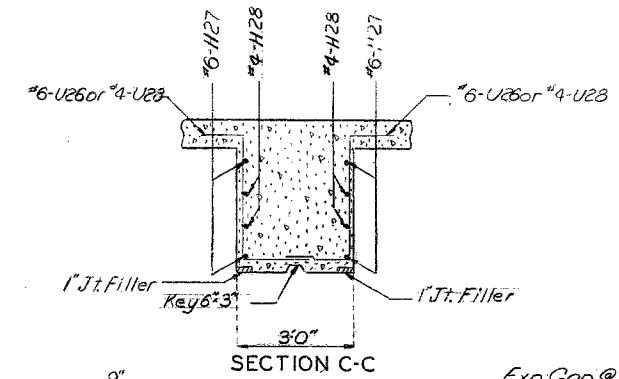
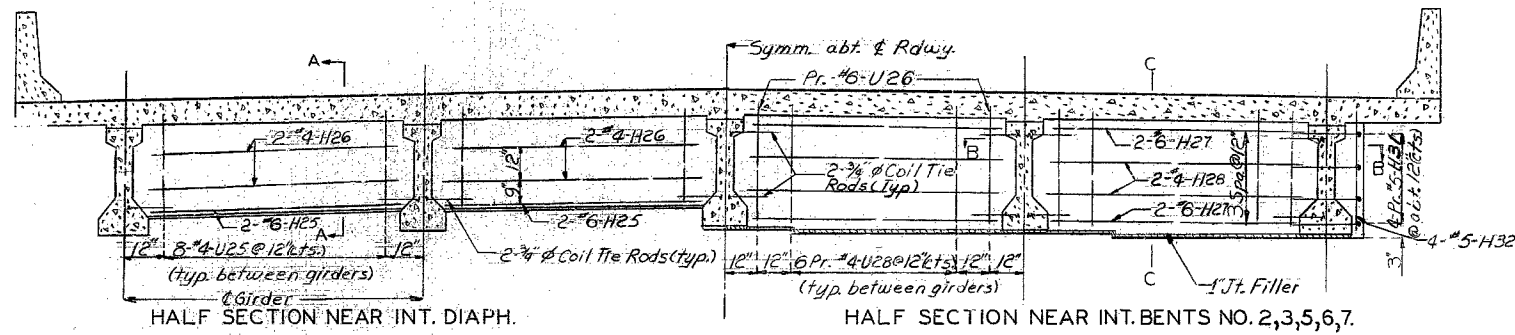
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 9 of 20

WASHINGTON COUNTY

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	23	

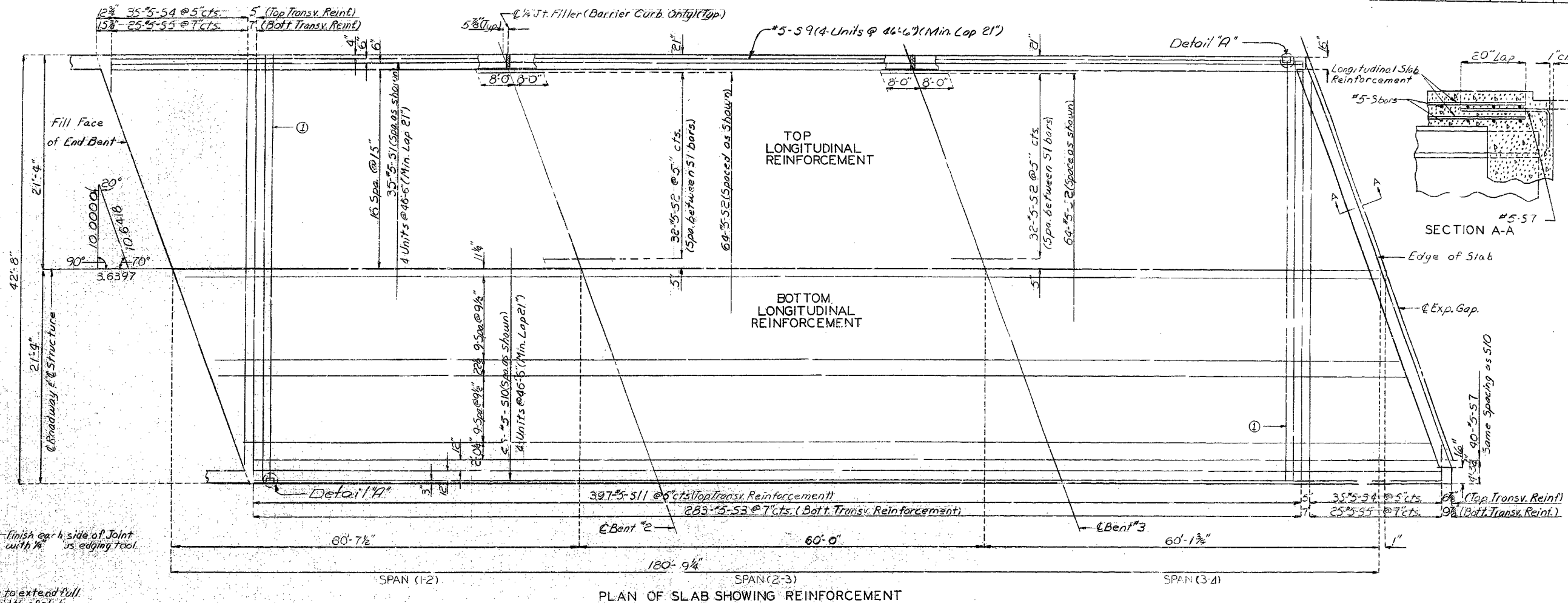


Note: Intermediate diaphragms are normal to girder. Diaphragms at Intermediate Bents are vertical. For location of Intermediate Diaphragms see sheet No. 9.

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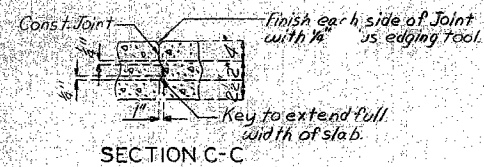
DETAILS OF DIAPHRAGMS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	25	

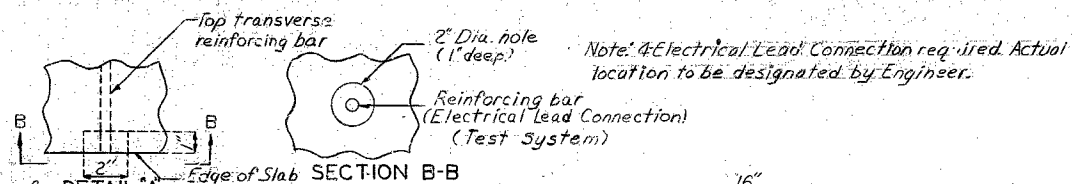


PLAN OF SLAB SHOWING REINFORCEMENT

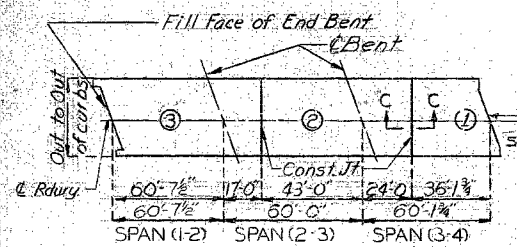
Note: Longitudinal dimensions shown are taken parallel to grade at crown of roadway. The slab length is based on 1/8" expansion gap at 60°F. Adjust slab length for any change in expansion gap as noted on sheet No. 11.



SECTION C-C



DETAILS OF ELECTRICAL LEAD CONNECTION

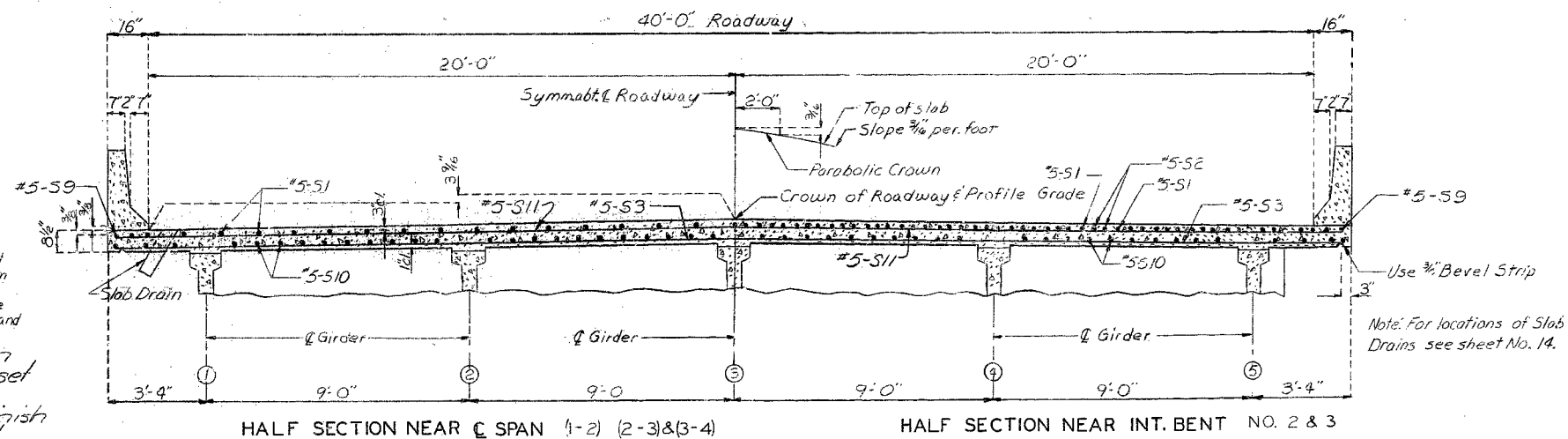


SEQUENCE	SEQUENCE OF POURS		
	DIRECTION		
BASIC SEQUENCE	1	2	3
ALTERNATE 'A' POURS	1 + 2	3	2 TO END
ALTERNATE 'B' POURS	1 + 2 + 3	2 TO END	

SLAB POURING SEQUENCE

Note: Alternate pours to the basic sequence are subject to the approval of the engineer in accordance with Section 705.3.12.4 of Missouri Standard Specifications.

Note: The diaphragm at the intermediate bents shall be poured a minimum of 30 minutes and a maximum of 2 hours before the slab is poured.
 Note: Intermediate Diaphragm within spans may be poured with construction joint between diaphragm and slab or monolithic with slab.
 The contractor shall furnish an approved retarder to retard the set of concrete to 2.5 hours and shall pour and satisfactory finish the slab pours at a rate of not less than 25.0 cubic yards per hour.



HALF SECTION NEAR G SPAN 1-2 (2-3) & (3-4)

HALF SECTION NEAR INT. BENT NO. 2 & 3

Detailed JULY 1977
 Checked MAY 1978

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 12 of 20

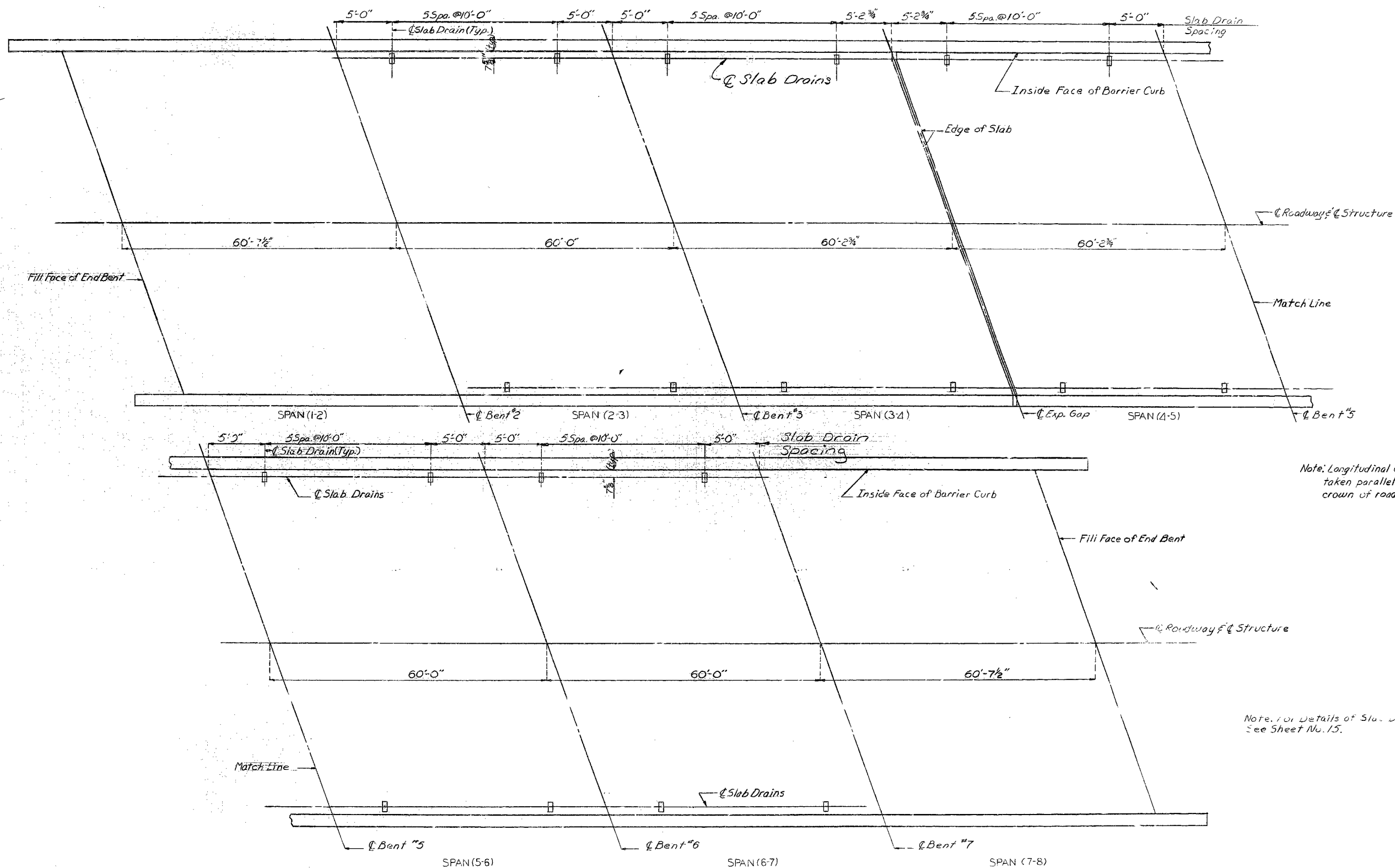
WASHINGTON

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		78	27	



Note: Longitudinal dimensions are taken parallel to grade at crown of roadway.

Note: For Details of Slab Drains See Sheet No. 15.

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DETAILED JULY 1977
CHECKED MAY 1978

Note: This drawing is not to scale. Follow dimensions.

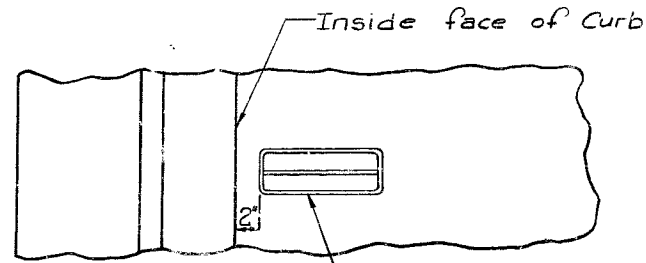
PLAN OF SLAB SHOWING LOCATION OF SLAB DRAINS

Sheet No. 14 of 20

WASHINGTON COUNTY

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	28	

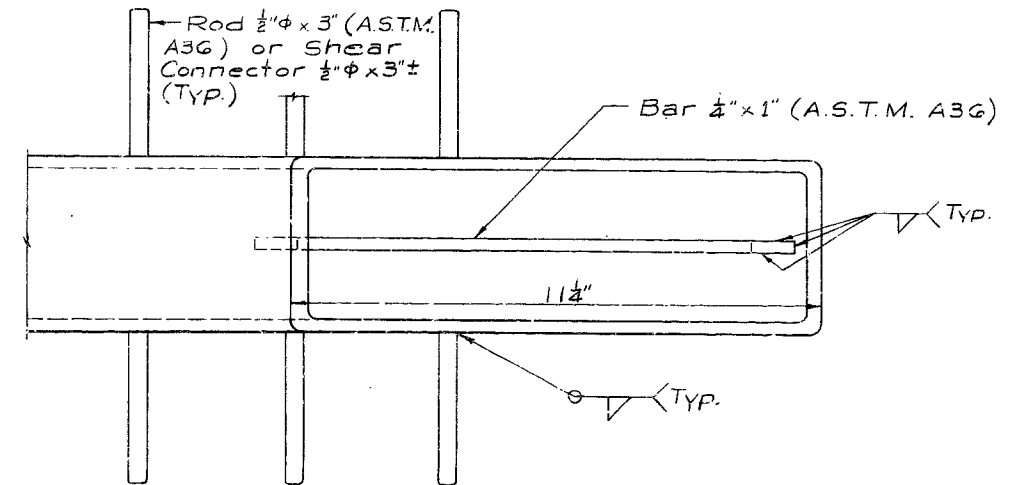


PARTIAL PLAN OF SLAB

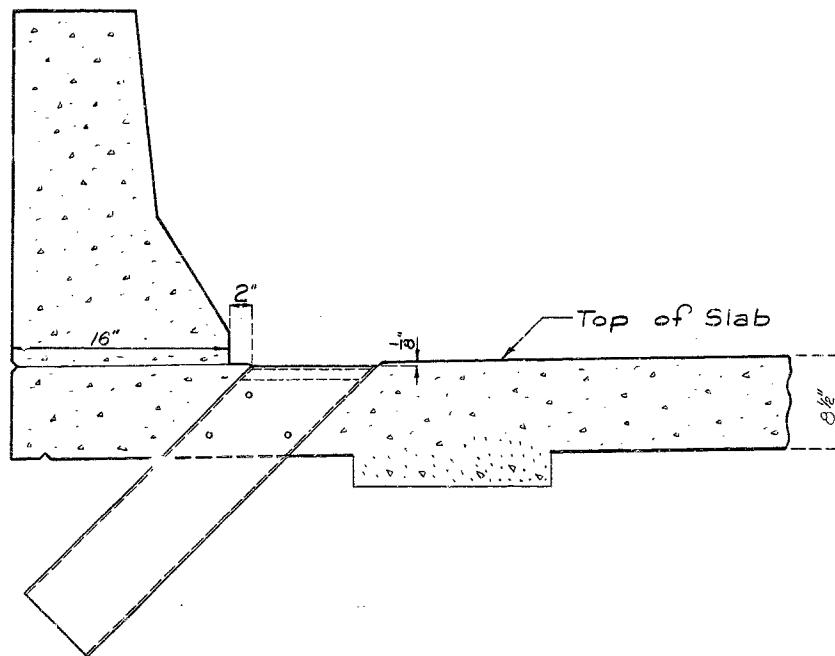
GENERAL NOTES

Slab Drains shall be fabricated of $\frac{1}{4}$ " welded sheets of A.S.T.M. A36 Steel or from $\frac{1}{4}$ " Structural Steel Tubing A.S.T.M. A500 or A501. Outside dimensions of Drains are 8"x4". The Drains shall be cast in the Concrete with the top of the drains being $\frac{3}{8}$ " below the finished concrete line. Locate Drains in Slab by dimensions shown in Partial Elevation. Shift Reinforcing Steel in field where necessary to clear drains. The Drains shall be Galvanized in accordance with A.S.T.M. A123.

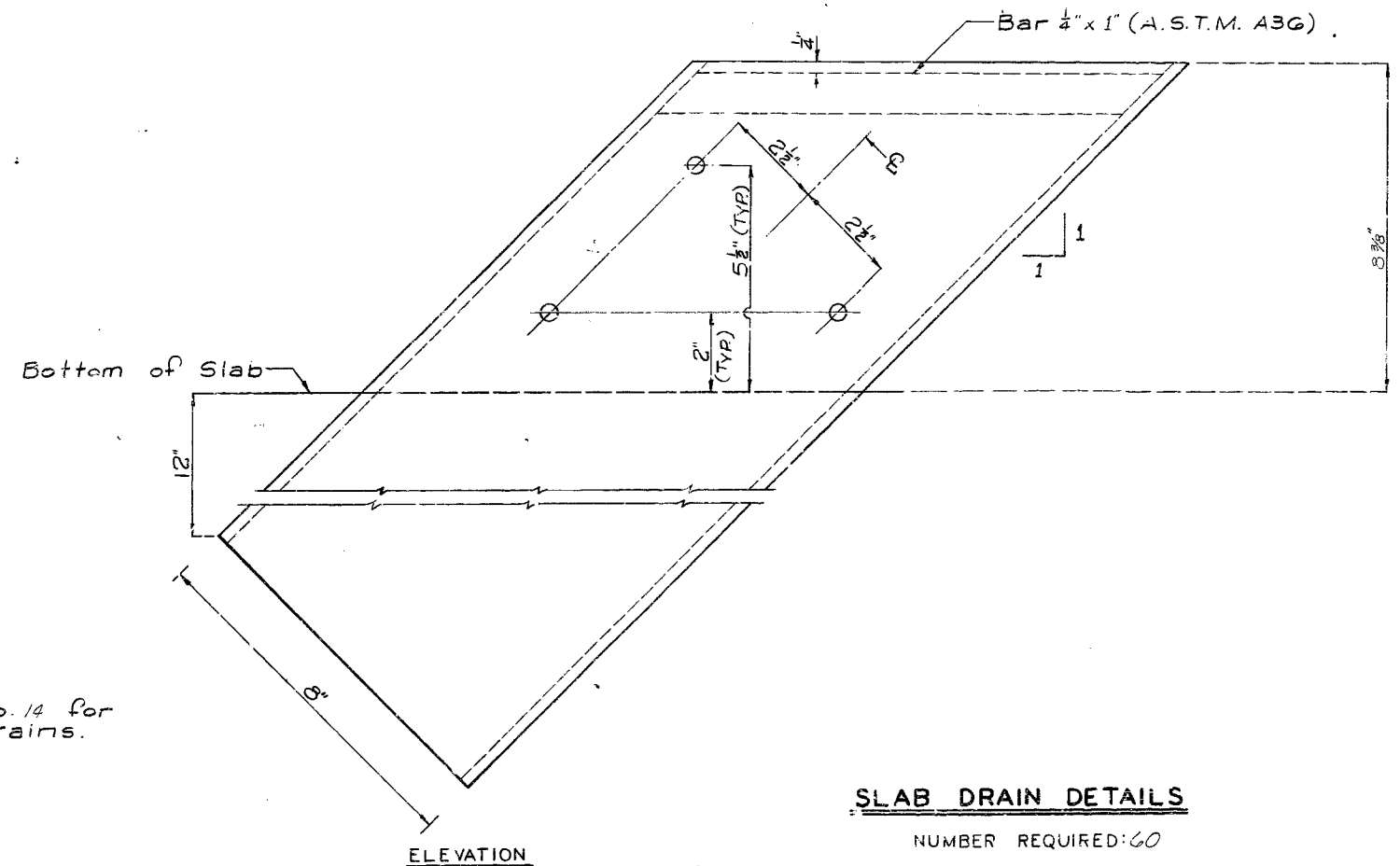
Shop Drawings will not be required for the Slab Drains.



PLAN



PARTIAL ELEVATION OF SLAB



ELEVATION

SLAB DRAIN DETAILS

NUMBER REQUIRED: 60

Note: See Sheet No. 14 for location of Drains.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 15 of 20

WASHINGTON

COUNTY

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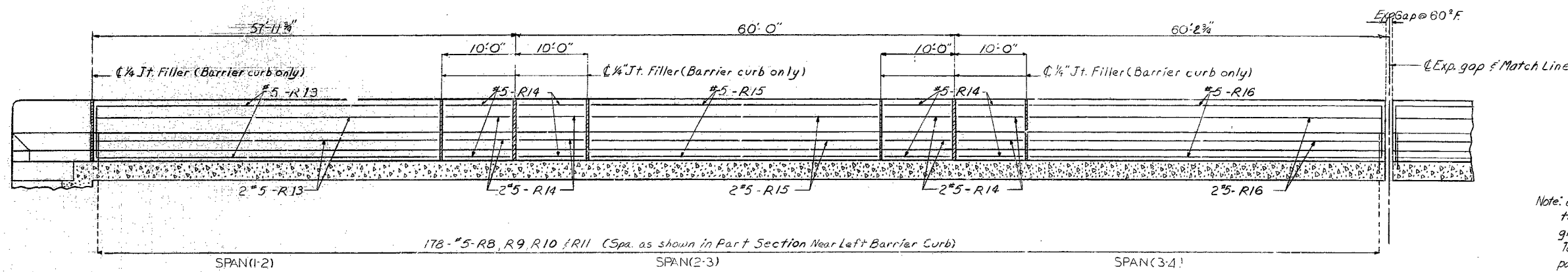
STD. S.D.-ALL-N.W.S.
FEB. 1975

REVISED
NOV. 1978

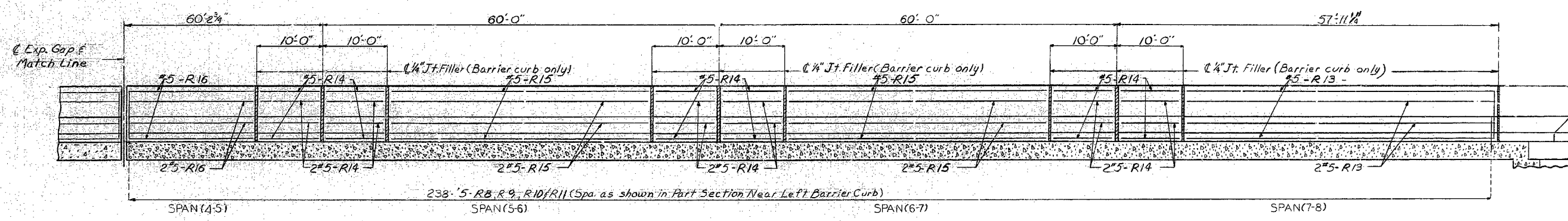
DETAILED JULY 1977
CHECKED MAY 1978

372

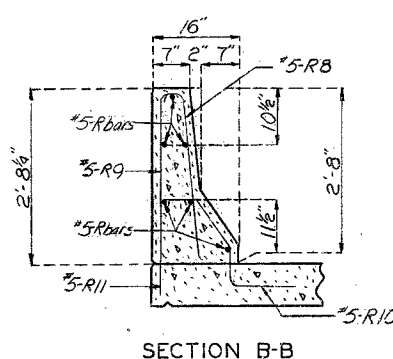
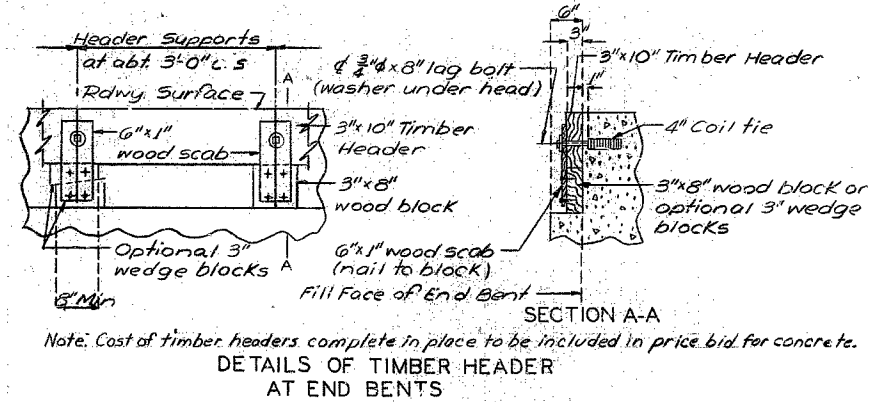
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	29	



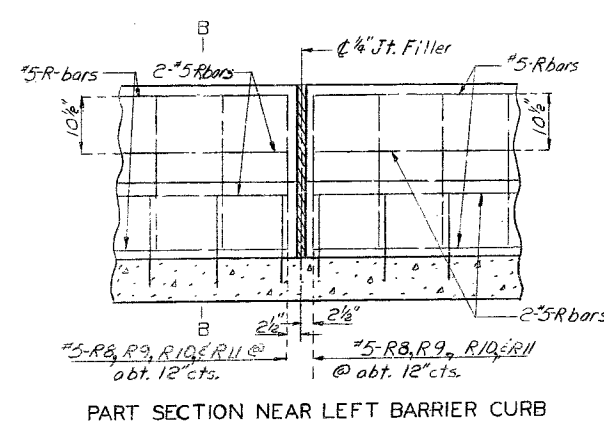
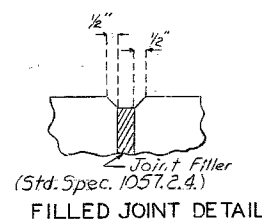
Note: Longitudinal dimensions are along top of barrier curb parallel to grade.
 Top of barrier curb to be built parallel to grade with barrier curb joints (except at end bents) normal to grade.
 All exposed edges of barrier curb shall have 1/8" radius or 1/8" bevel unless otherwise noted.



SECTION NEAR LEFT BARRIER CURB



SECTION B-B



PART SECTION NEAR LEFT BARRIER CURB

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DETAILED JULY 1977
 CHECKED MAY 1978

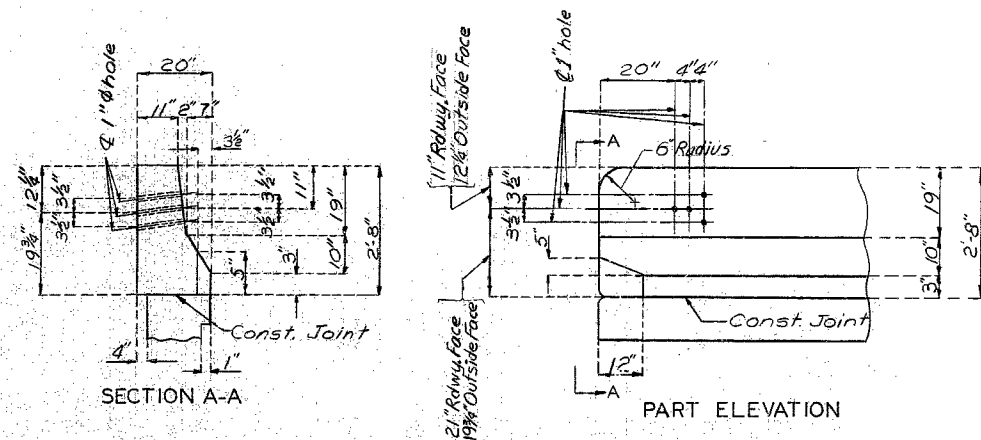
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 16 of 20

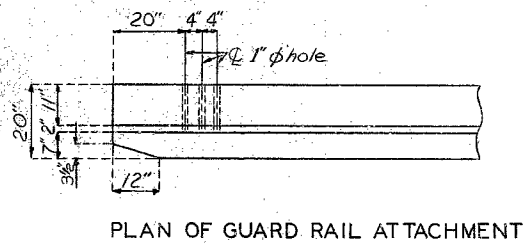
WASHINGTON COUNTY

A-3775

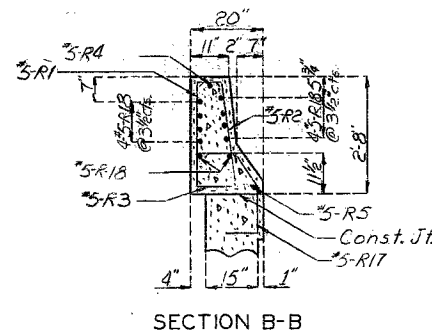
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	30	



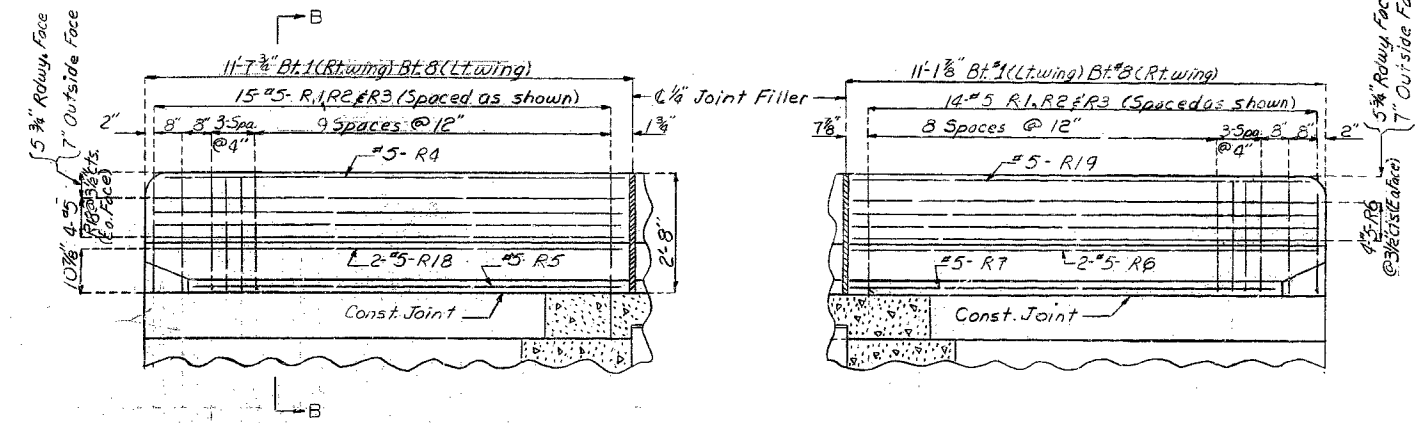
DETAILS OF GUARD RAIL ATTACHMENT



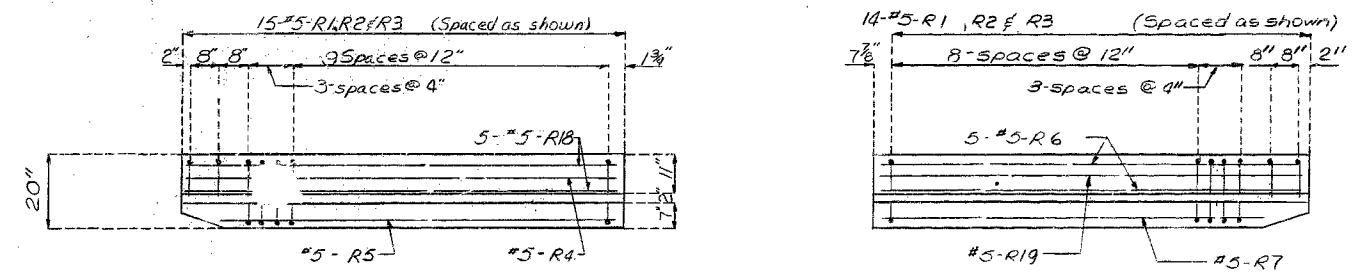
PLAN OF GUARD RAIL ATTACHMENT



SECTION B-B



ELEVATION OF BARRIER CURB AT END BENTS



PLAN OF BARRIER CURB AT END BENTS

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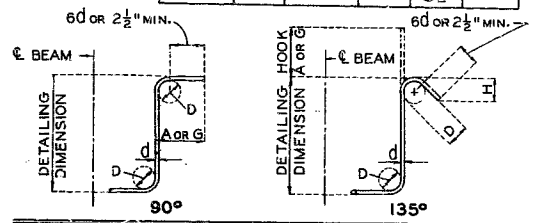
COMPLETE BILL OF REINFORCING STEEL

COMPLETE BILL OF REINFORCING STEEL

Table with columns: NO. REQD., MARK NO., LOCATION, GRADE, SHAPE NO., STIRRUP (S), SUBSTR. (V), DIMENSIONS (B, C, D, E, F, H, K), NOMINAL LENGTH, ACTUAL LENGTH, WEIGHT. Includes items 1-60 and 61-120.

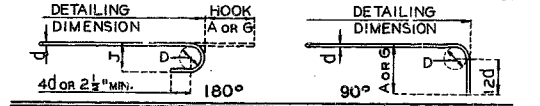
Table with columns: NO. REQD., MARK NO., LOCATION, GRADE, SHAPE NO., STIRRUP (S), SUBSTR. (V), DIMENSIONS (B, C, D, E, F, H, K), NOMINAL LENGTH, ACTUAL LENGTH, WEIGHT. Includes items 7-60 and 61-120.

Table with columns: FED. ROAD DIST. NO., STATE, FED. AID PROJ. NO., FISCAL YEAR, SHEET NO., TOTAL SHEETS. Values: 5, MO., 19, 52.



STIRRUP HOOK DIMENSIONS table for grades 40-50-60 KSI, showing hook dimensions for various bar sizes (#3 to #6).

NOTE: UNLESS OTHERWISE NOTED DIAMETER 'D' IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.



SIZE OF 180° HOOKS (GRADE 60 KSI) and SIZE OF 90° HOOKS (ALL GRADES) AND 180° HOOKS (GRADE 60 KSI) tables.

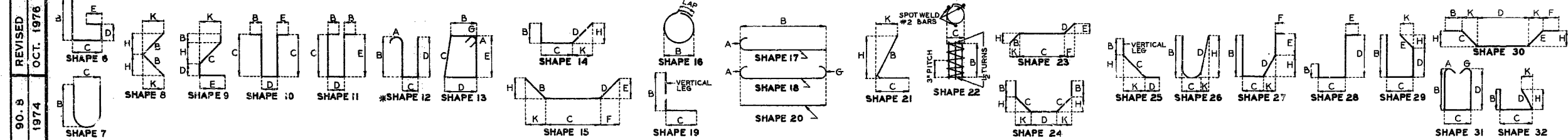
END HOOK DIMENSIONS table for 180° and 90° hooks across various bar sizes and grades.

NOTES: ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEG. TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEG. STD. HOOKS.

H - HIGH STRENGTH (ASTM A-615 GRADE 60), S - STIRRUP, X - BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES, V - BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.

* Indicates bars to be coated with epoxy. Two additional #5-#7, #6-V7 are included in bar bill for testing. See Spec. Provisions.

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BENDING DIAGRAMS

Note: This drawing is not to scale. Follow dimensions.

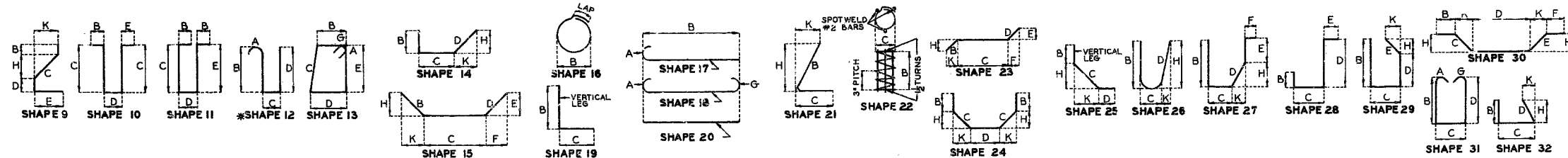
Sheet No. 19 of 20

REVISED OCT. 1976, MAY 1974, DETAILED AUG. 1977, CHECKED JUNE 1978

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STD. 90.8.5
MAY 1974
REVISED
OCT. 1978

SHAPE 7
DETAILED AUG. 1977
CHECKED JUNE 1978



BENDING DIAGRAMS

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 20 of 20

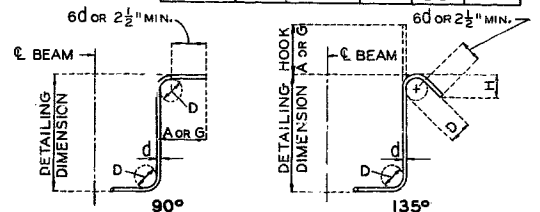
WASHINGTON COUNTY

A-3775

COMPLETE BILL OF REINFORCING STEEL

NO. REQD.	MARK NO.	LOCATION	GRADE 60 (H)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS										NOMINAL LENGTH FT. IN.	ACTUAL LENGTH FT. IN.	WEIGHT LBS.				
									B	C	D	E	F	H	K	B	C	D				E	F	H	K
* 140	554	SLAB		H 20				4	2	5.000									2	5	2	5			
		INCR = 13.750 IN							41	4.000									41	4	41	4			3196
100	555	SLAB		H 20				4	3	11.000									3	11	3	11			
		INCR = 18.750 IN							41	6.000									41	6	41	6			2368
* 80	557	SLAB		H 19	S				12	9.000	2	1.000							3	1	3	0			250
* 175	558	SLAB		H 20					49	6.000									49	6	49	6			9035
B	559	Slab		H 20					46	6.000									46	6	46	6			388
184	5310	Slab		H 20					46	6.000									46	6	46	6			8924
938	5311	Slab		H 20					42	5.000									42	5	42	5			41498
230	5312	Slab		H 20					49	6.000									49	6	49	6			11875
10	5313	Slab		H 20					49	6.000									49	6	49	6			516

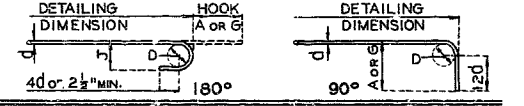
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		59	33	



STIRRUP HOOK DIMENSIONS

BAR SIZE	D (IN.)	90° HOOK		135° HOOK	
		HOOK A OR G	APPROX. H	HOOK A OR G	APPROX. H
#3	1-1/2"	4"	2-1/2"	4"	3"
#4	2"	4-1/2"	3"	4-1/2"	3"
#5	2-1/2"	6"	3-3/4"	5-1/2"	3-3/4"
#6	4-1/2"	8"	4-1/2"	7"	4-1/2"

NOTE: UNLESS OTHERWISE NOTED DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.



SIZE OF 180° HOOKS (GRADE 40 KSI) D = 5d FOR #3 THRU #11 D = 10d FOR #14 AND #18
 SIZE OF 90° HOOKS (ALL GRADES) AND 180° HOOKS (GRADE 60 KSI) D = 6d FOR #3 THRU #8 D = 8d FOR #9, #10 AND #11 D = 10d FOR #14 AND #18

END HOOK DIMENSIONS

BAR SIZE	180° HOOKS						90° HOOKS	
	GRADE 40		GRADE 60		ALL GRADES		ALL GRADES	
	A OR G	J	A OR G	J	A OR G	J	A OR G	
#3	5"	2-3/4"	5"	3"	6"			
#4	6"	3-1/2"	6"	4"	8"			
#5	7"	4-1/2"	7"	5"	10"			
#6	8"	5-1/4"	8"	6"	12"			
#7	9"	6-1/4"	10"	7"	14"			
#8	10"	7"	11"	8"	16"			
#9	12"	8"	15"	11-1/4"	19"			
#10	13"	9"	17"	12-3/4"	22"			
#11	14"	10"	19"	14-1/4"	21-0"			
#14	21-2"	20-1/2"	21-2"	20-1/2"	21-7"			
#18	21-11"	21-3"	21-11"	21-3"	31-5"			

NOTES: ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEG. TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEG. STD. HOOKS. HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.

H - HIGH STRENGTH (ASTM A-615 GRADE 60).
 S - STIRRUP.
 X - BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.
 V - BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.
 NO. EA. - NUMBER OF BARS OF EACH LENGTH.
 NOMINAL LENGTHS - ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)
 ACTUAL LENGTHS - ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.

* ALL HOOKS AND BENDS FOR SHAPE NO. 12 - GRADE 40 (ONLY) ARE BASED ON 5 = 3d.

* Indicates bars to be coated with epoxy.

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

FINAL PLANS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19		

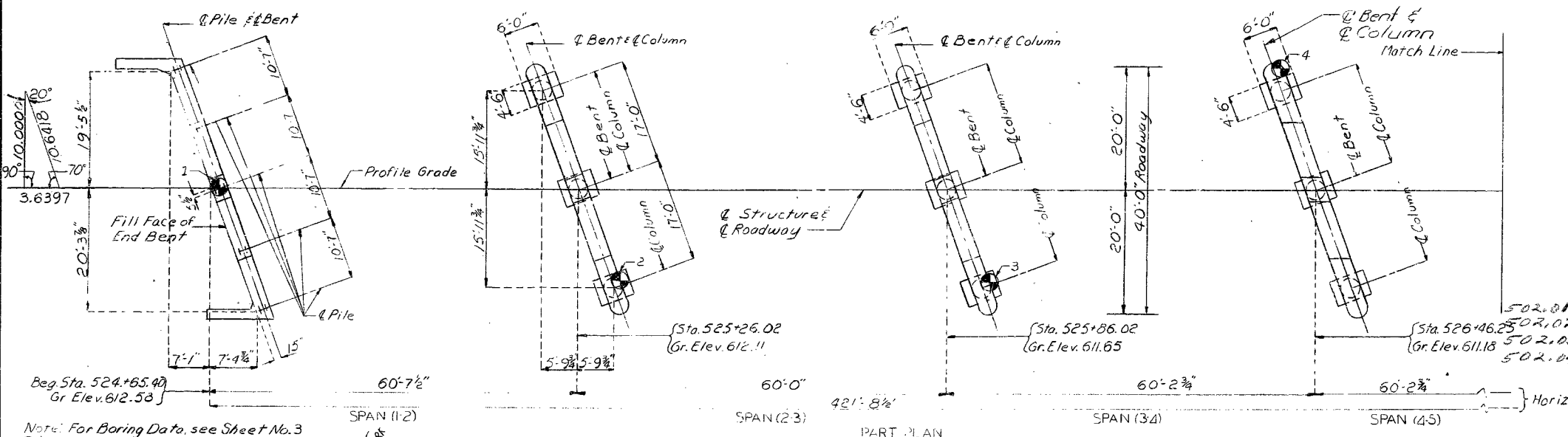
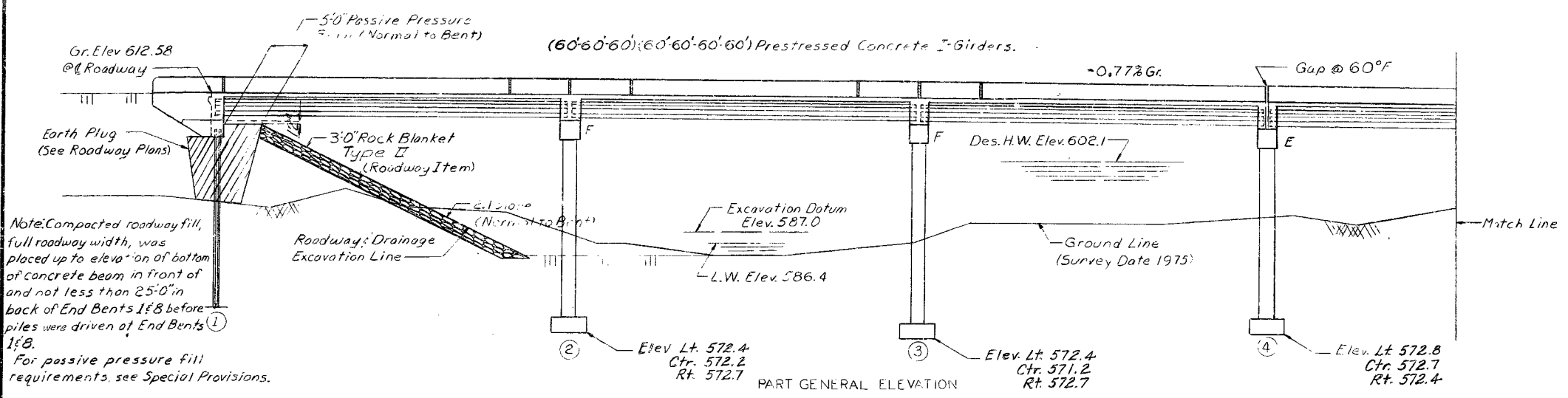
GENERAL NOTES:

Design Specifications: A.A.S.H.T.O. - 1973
Load Factor Design
Design Loading:
H 20-44, 15' 4" Future Wearing Surface
Earth 120' Equivalent Fluid Pressure 30'
Superstructure: Simply supported non-composite for Dead Load Continuous composite for Live Load.

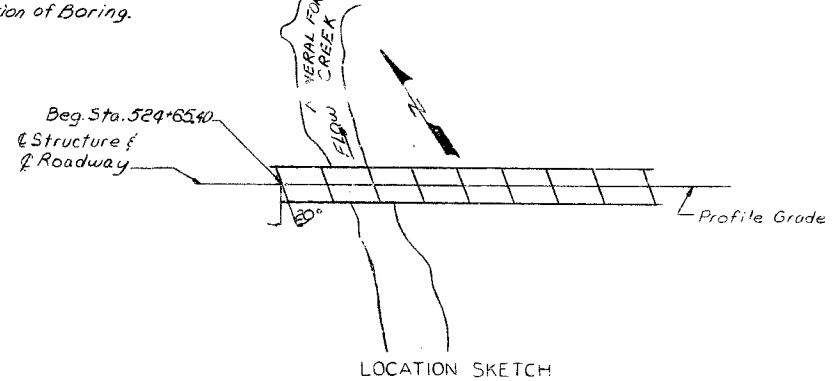
Design Unit Stresses:
Class B Concrete (substructure) $f'_c = 3,000$ psi
Class B Concrete (superstructure except P/S Girders) $f'_c = 4,000$ psi
Reinforcing Steel (Grade 60) $f_y = 40,000$ psi
Reinforcing Steel (Grade 60) (Superstructure Slab and Safety Barrier Curb) $f_y = 60,000$ psi
Steel Pile $f_b = 90,000$ psi
For Prestressed Girder Stresses see Sheet No. 9

Reinforcing Steel:
Minimum clearance to reinforcing steel was 1 1/2" unless otherwise shown
Paint: Shop none, Field all exposed surfaces of steel piles were painted in accordance with Std. Spec. 702.4.7 using System floor B. Color of final coat was aluminum.
Joint Filler met the requirements of Std. Spec. 1057.2.4.
Bearings were neoprene Pads (60 durometer)

ITEM	FINAL QUANTITIES		
	SUBSTR.	SUPERSTR.	TOTAL
Removal of Bridge	Each		1
Class 1 Excavation	Cu. Yds	30.5	30.5
Class 2 Excavation	Cu. Yds	302	302
Structural Steel Piles (HP10x42)	Lin. Ft.	1004	1004
Class B Concrete	Cu. Yds	189.6	189.6
Class B Concrete	Cu. Yds	691.9	691.9
Plain Neoprene Bearing Pads (1/2" thick)	Each	60	60
Laminated Neoprene Bearing Pads (1 1/2" thick)	Each	0	0
Elastomeric Exp. Jt. Seal (20)	Lin. Ft.	43	43
Prestressed Concrete Members, I-sec. (60' spans)	Each	35	35
Reinforcing Steel (Epoxy coated)	Lb.	33,470	83,470
Reinforcing Steel (Grade 60)	Lb.	24,910	93,010
Slab Drains	Each	60	60
CONTINGENT ITEMS			
Laminated Neoprene Bearing Pads (1/2" thick)	Each		10
Force Account Cut Re-Bars			1157.62
Class 2 Excavation Below Plan Elev	Cu. Yds.	3.5	3.5
Test Holes	Lin. Ft.	44	44



Note: For Boring Data, see Sheet No. 3
● Indicates location of Boring.



HYDRAULIC DATA	
Drainage Area	= 160 sq. miles
Des. Discharge	= 24,400 cfs
Des. H.W. Elev.	= 602.1
Frequency	= 50 yr.
BASIC FLOOD DATA	
Q(100)	= 28,200
H.W. Elev.	= 603.0

TEST HOLES			
Location	No.	Lgth	Total
Bent 2 Lt	1	4'	4'
" Ctr.	2	4'	8'
" Rt.	1	4'	4'
Bent 3 Lt	1	4'	4'
" Ctr.	2	4'	8'
" Rt.	1	4'	4'
Bent 4 Lt	1	4'	4'
" Ctr.	2	4'	8'
" Rt.	1	4'	4'
TOTAL			44'

Note: All concrete above lower const. joint in end bents was included with Superstructure quantities. All reinforcement in the end bents was included with Superstructure quantities.

B.M. #17C Elev. 615.01 Bolt head on top of Lt. Barrier Curb at End Bent No. 1, Bridge No. A-3775. 21' Lt. of Sta. 524+65.40

BRIDGE OVER MINERAL FORK CREEK
STATE ROAD FROM RTE. H TO RTE. 21
ABOUT 1.5 MILES NORTH OF RTE. 21
PROJECT NO. F-BRF-47-1(13) STA. 524+65.40
JOB NO. 6-P-47-45 RTE. 47
WASHINGTON COUNTY

STD.
S.D. 706.35
A-3775

DESIGNED JUNE 1977
DETAILED AUG. 1977
CHECKED JUNE 1978

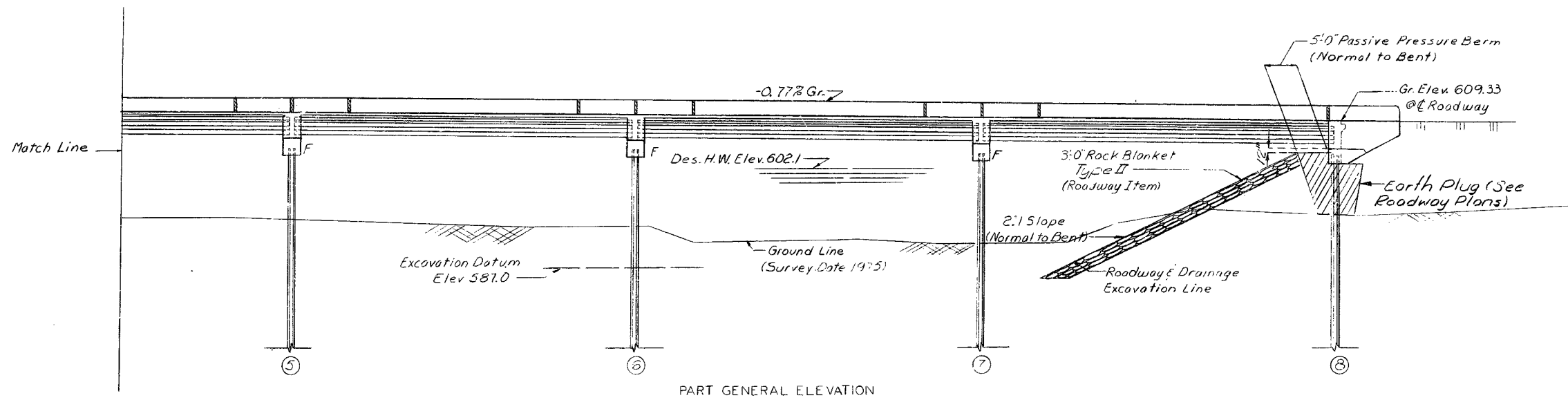
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1A of 20.

DATE: 4/4/90

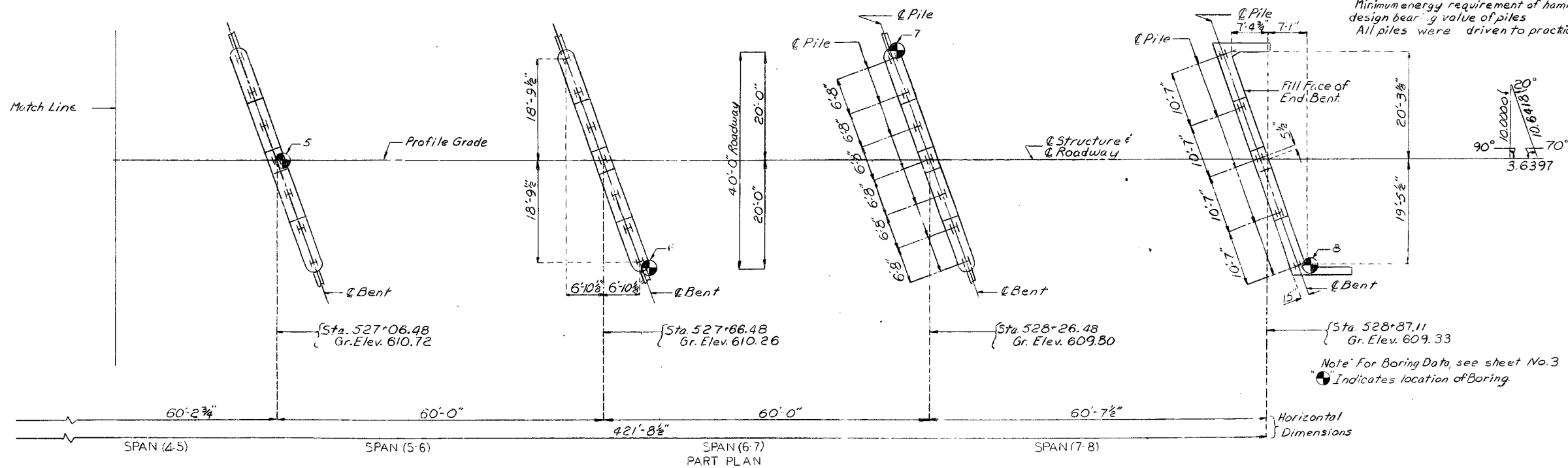
378

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19		



PART GENERAL ELEVATION

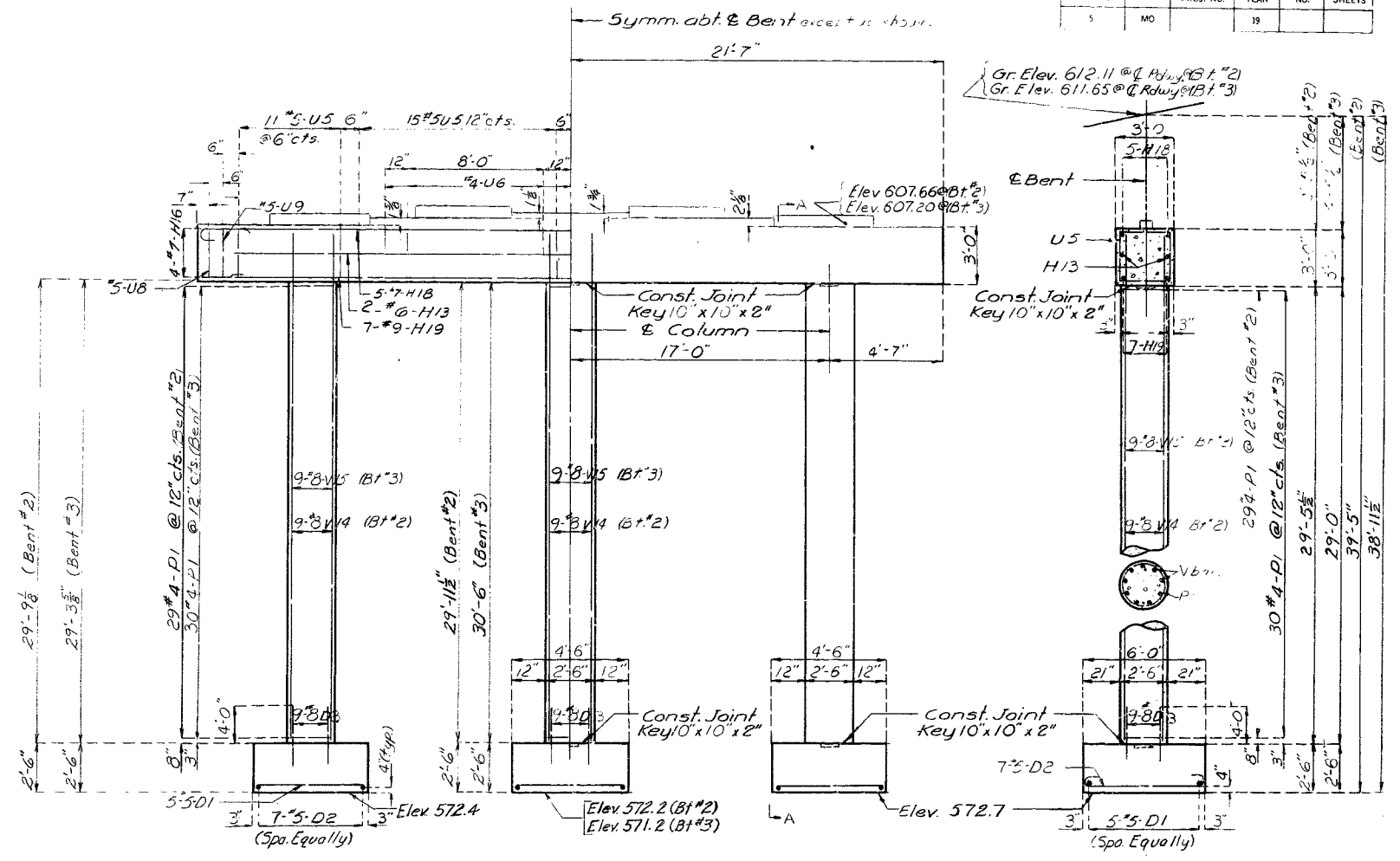
PILE & FOOTING DATA		1	2	3	4	5	6	7	8
BENT NO.		1	2	3	4	5	6	7	8
Pile Type & Size		HP 10x42		HP 10x42					
BEARING PILE	Number	5				7	7	7	5
	Approximate Length Ft.	34				36	31	30	31
	Design Bearing Tons	47				53	53	53	47
	Hammer Energy Required Ft. lbs.	10,800				12,500	12,500	12,500	10,800
SPREAD FOOTINGS	Foundation Material	Rock/Rock/Rock							
	Design Bearing Tons/Sq. Ft.	11			11		12		



PART PLAN

379

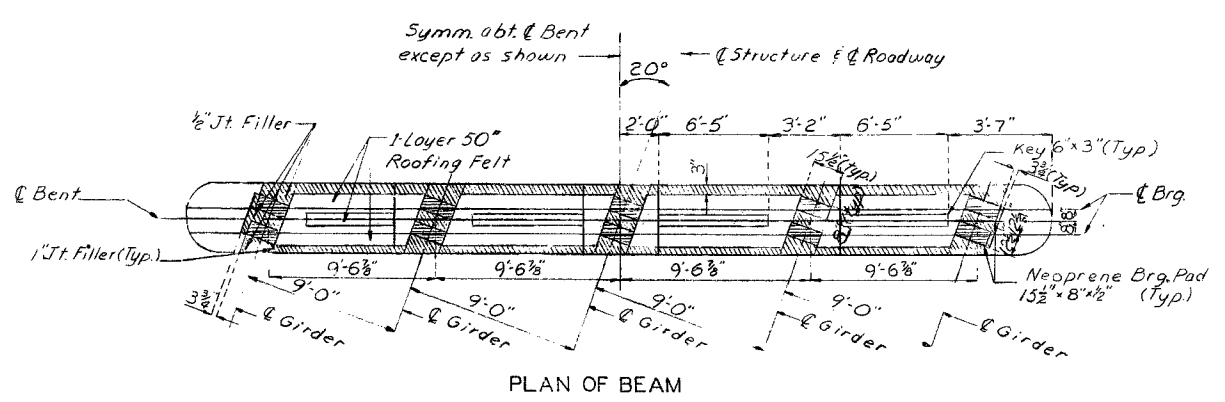
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5	MO		19		



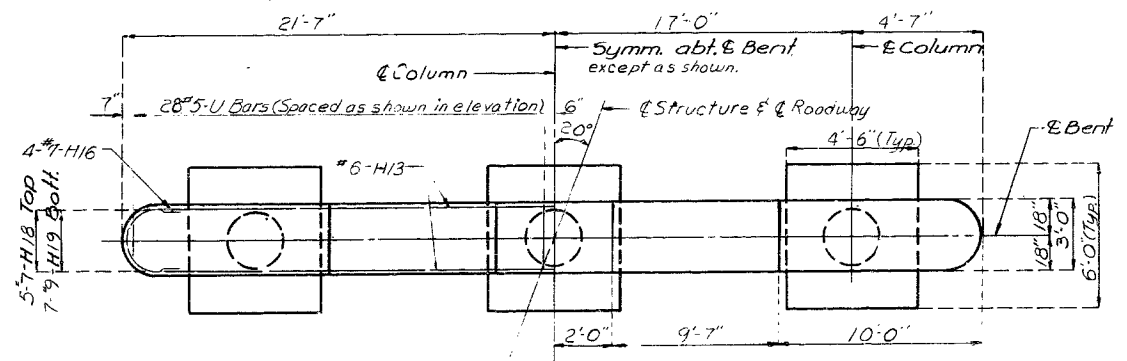
DETAIL OF KEY

ELEVATION

SECTION A-A



PLAN OF BEAM



PLAN
DETAILS OF INTERMEDIATE BENT NO. 2&3.

Note: Footing Reinforcement is same for Interior & Exterior footing.

380

STD. 19.5
JAN. 1965

REVISED
JUNE 1974

DETAILED JULY 1977
CHECKED MAY 1978

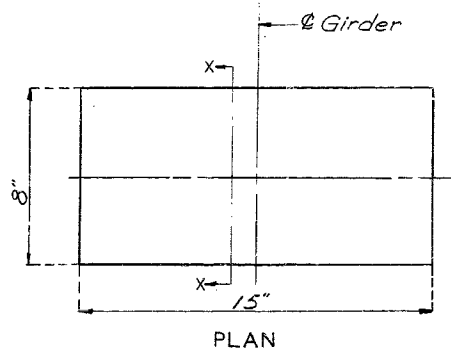
Note: This drawing is not to scale. Follow dimensions.

Sheet No. SA of 20.

WASHINGTON COUNTY

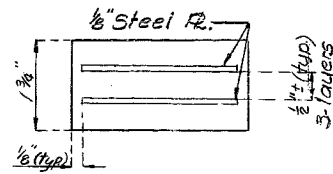
A-3775

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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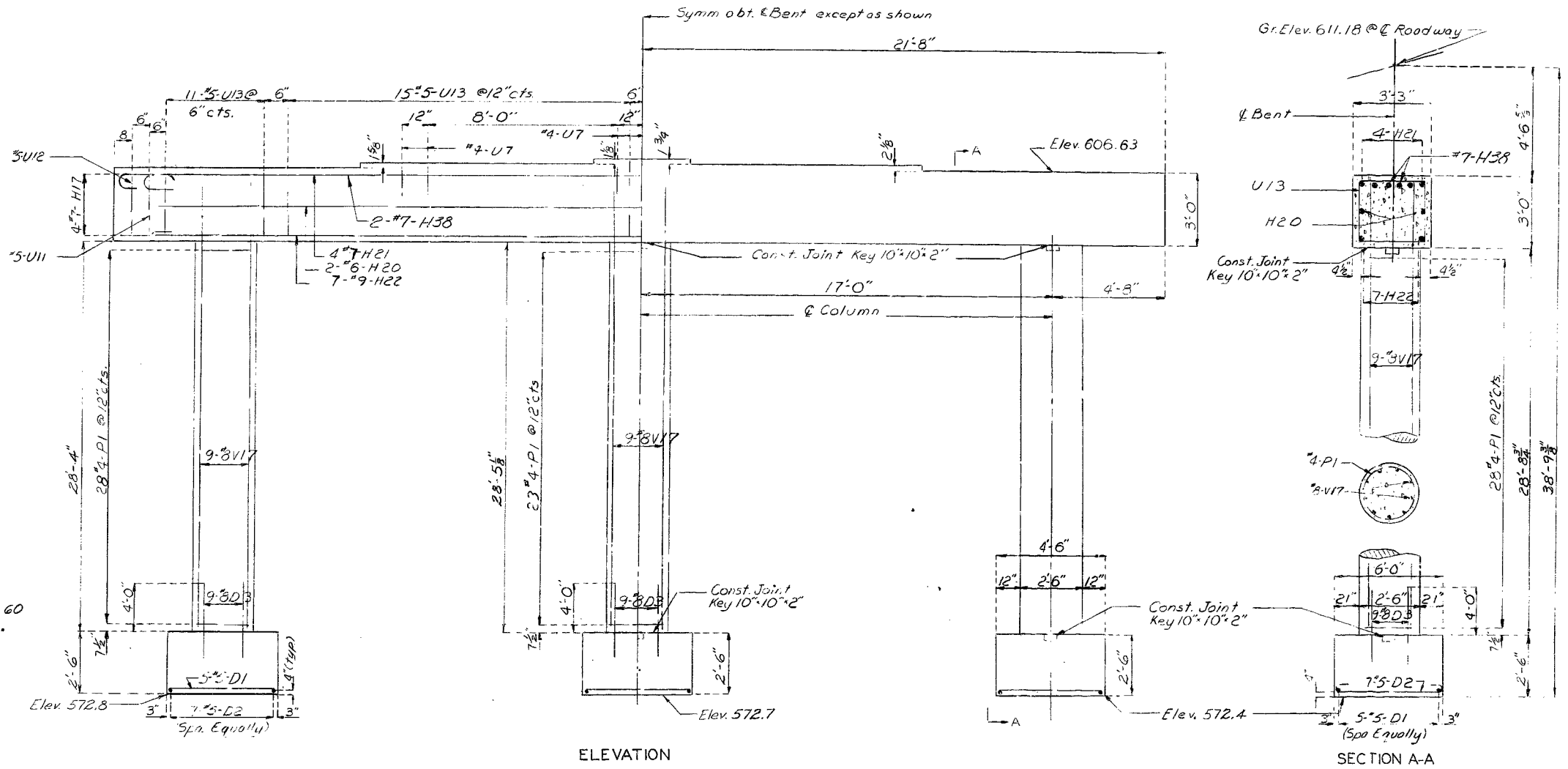
PLAN

Note: Bearings were 60 durometer Neoprene Pads. Steel R. was A-36.



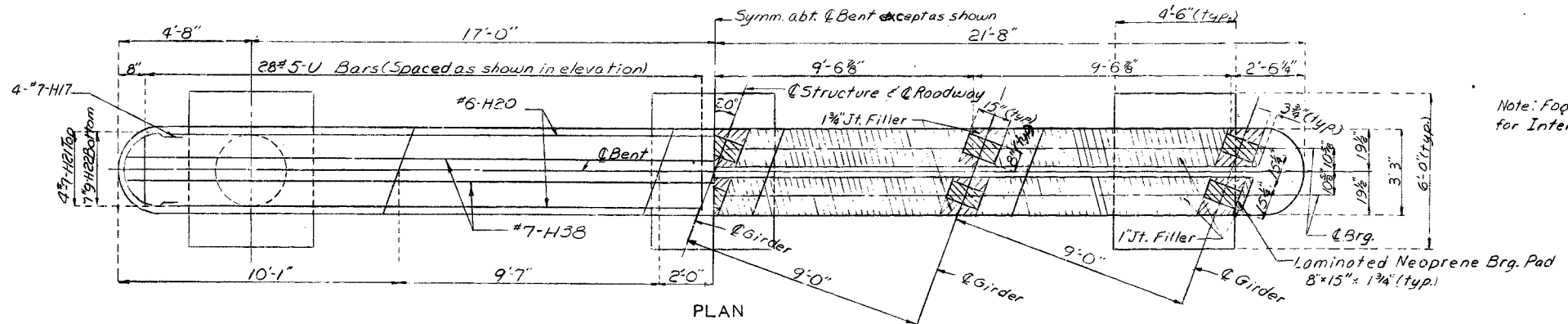
SECTION X-X

DETAIL OF LAMINATED NEOPRENE BRG. PAD BENT NO. 4



ELEVATION

SECTION A-A



PLAN

DETAILS OF INTERMEDIATE BENT NO. 4

Note: Footing Reinforcement is same for Interior & Exterior footing.

381



**Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet**

December 19, 2022
10:52:05am

COUNTY : WASHINGTON	BRIDGE : A3775	REVIEW STATUS : APPROVED	NBI STATUS : P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT		RUN DATE : 3/8/2022	SUBMITTAL YEAR : 2021

GENERAL STRUCTURE INFORMATION	ROUTE DESIGNATION INFORMATION
1 State MISSOURI	5A Record Type ROUTE CARRIED 'ON' STRUCT
2 District CD	5B Route Signing Prefix MO
3 County WASHINGTON	5C Designated Level of Service MAINLINE
8 Federal ID No. 3139	5D Route Number 00047
27 Year Built 1981	5E Directional Suffix NOT APPLICABLE
106 Year Reconstructed 0	7 Facility Carried MO 47 S
42A Type of Service On HIGHWAY	12 Base Hwy. Network YES
21 Structure Maintenance STATE HIGHWAY AGENCY	13A LRS Inventory Route No. 0000000050
22 Structure Owner STATE HIGHWAY AGENCY	13B Subroute No. 00
33 Br. Median Code NO MEDIAN	20 Toll Status ON FREE ROAD
37 Historical Significance NOT ELIGIBLE FOR NR OF HP	26 Functional Classification 06-RURAL MINOR ARTERIAL
101 Parallel Struc Desg NONE EXISTS	28A Lanes on Structure 02
103 Temporary Structure NOT TEMPORARY	100 STRAHNET Designation RTE NOT A DEFENSE HWY
112 NBIS Bridge Length YES	104 National Highway System NOT ON NHS
	105 Federal Lands Highway NOT APPLICABLE
	110 Designated Nat. Network NO

STRUCTURE LOCATION INFORMATION	STRUCTURE TRAFFIC INFORMATION
4 Place KINGSTON	29 AADT 1596
Code 38882	30 AADT Year 2021
9 Location S 2066 T 39 N R 3 E	102 Direction of Traffic 2-WAY TRAFFIC
11 Milepoint 96.82 miles	109 AADT Truck Percent 14%
16 Latitude 38 D 5 M 45 S	114 Future AADT 2394
17 Longitude 90 D 44 M 51 S	115 Future AADT Year 2041

UNDERRECORD INFORMATION	STRUCTURE GEOMETRIC INFORMATION
6 Features Intersected MINERAL FK CR	10 Inventory Rte. Vert. Clear 99 Ft. 99 In.
42B Type of Service Under WATERWAY	19 By pass Detour Length 34.72 miles
28B Lanes Under Structure 00	32 Approach Roadway Width 27 Ft. 11 In.
54A Vert. Clearance Ref. N/A	34 Skew 20.00 Degrees
54B Vert. Clearance 0 Ft. 0 In.	35 Struct. Flared NO
55A Rt. Lat Clear Ref. N/A	47 Total Horiz. Clear 41 Ft. 4 In.
55B Rt. Lat Clearance 0 Ft. 0 In.	48 Maximum Span Length 60 Ft. 8 In.
56 Left Lat Clearance 0 Ft. 0 In.	49 Structure Length 421 Ft. 11 In.
38 Navigation Control PERMIT NOT REQ	50A Left Curb/Sidewalk Width 0 Ft. 8 In.
39 Nav Vertical Clear 0 Ft. 0 In.	50B Right Curb/Sidewalk Width 0 Ft. 8 In.
40 Nav Horizontal Clear 0 Ft. 0 In.	51 Curb to Curb Br. Width 40 Ft. 0 In.
111 Nav. Pier Protection	52 Deck Width (Out-Out) 42 Ft. 8 In.
116 Nav. Cl. Vert. Clear	53 Vert. Clearance Over Deck 99 Ft. 99 In.

Design_No = a3775



**Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet**

December 19, 2022
10:52:05am

COUNTY : WASHINGTON	BRIDGE : A3775	REVIEW STATUS : APPROVED	NBI STATUS : P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT	RUN DATE : 3/8/2022	SUBMITTAL YEAR : 2021	

LOAD RATING AND POSTING INFORMATION	MATERIAL/CONSTRUCTION INFORMATION																																																						
<table border="0" style="width:100%"> <tr><td>31</td><td>Design Load</td><td>H 20</td></tr> <tr><td>41</td><td>Structure Status</td><td>A - OPEN NO RESTRICTIONS</td></tr> <tr><td>63</td><td>Oper. Rating Meth.</td><td>LOAD FACTOR</td></tr> <tr><td>64</td><td>Operating Rating</td><td>63 Tons.</td></tr> <tr><td>65</td><td>Inventory Rating Meth</td><td>LOAD FACTOR</td></tr> <tr><td>66</td><td>Inventory Rating</td><td>25 Tons.</td></tr> <tr><td>70</td><td>Bridge Posting Code</td><td>=>LEGAL LOADS</td></tr> </table>	31	Design Load	H 20	41	Structure Status	A - OPEN NO RESTRICTIONS	63	Oper. Rating Meth.	LOAD FACTOR	64	Operating Rating	63 Tons.	65	Inventory Rating Meth	LOAD FACTOR	66	Inventory Rating	25 Tons.	70	Bridge Posting Code	=>LEGAL LOADS	<table border="0" style="width:100%"> <tr><td>43A</td><td>Main Struc. Mat type</td><td>PRESTRSED CONCRETE CONTIN</td></tr> <tr><td>43B</td><td>Main struc Constr. Type</td><td>STRINGER/MULTIBEAM - GRD</td></tr> <tr><td>45</td><td># of Main Spans</td><td>7</td></tr> <tr><td>44A</td><td>Appr Struc. Mat type</td><td></td></tr> <tr><td>44B</td><td>Appr Struc. Cnstr. type</td><td></td></tr> <tr><td>46</td><td># of Approach Span</td><td>0</td></tr> <tr><td>107</td><td>Deck Mat/Constr.</td><td>1 CONCRETE CIP</td></tr> <tr><td>108A</td><td>Wear Surf Mat/Constr.</td><td>6 BITUMINOUS</td></tr> <tr><td>108B</td><td>Membrane Mat/Constr.</td><td>0 NONE</td></tr> <tr><td>108C</td><td>Deck Protect Mat/Constr.</td><td>1 EPOXY</td></tr> </table>	43A	Main Struc. Mat type	PRESTRSED CONCRETE CONTIN	43B	Main struc Constr. Type	STRINGER/MULTIBEAM - GRD	45	# of Main Spans	7	44A	Appr Struc. Mat type		44B	Appr Struc. Cnstr. type		46	# of Approach Span	0	107	Deck Mat/Constr.	1 CONCRETE CIP	108A	Wear Surf Mat/Constr.	6 BITUMINOUS	108B	Membrane Mat/Constr.	0 NONE	108C	Deck Protect Mat/Constr.	1 EPOXY			
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Design_No = a3775



**Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet**

December 19, 2022
10:52:05am

COUNTY : WASHINGTON	BRIDGE : A3775	REVIEW STATUS : APPROVED	NBI STATUS : T
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT		RUN DATE : 11/30/2022	SUBMITTAL YEAR : 2022

GENERAL STRUCTURE INFORMATION	ROUTE DESIGNATION INFORMATION
1 State MISSOURI	5A Record Type ROUTE CARRIED 'ON' STRUCT
2 District CD	5B Route Signing Prefix MO
3 County WASHINGTON	5C Designated Level of Service MAINLINE
8 Federal ID No. 3139	5D Route Number 00047
27 Year Built 1981	5E Directional Suffix NOT APPLICABLE
106 Year Reconstructed 0	7 Facility Carried MO 47 S
42A Type of Service On HIGHWAY	12 Base Hwy. Network YES
21 Structure Maintenance STATE HIGHWAY AGENCY	13A LRS Inventory Route No. 0000000050
22 Structure Owner STATE HIGHWAY AGENCY	13B Subroute No. 00
33 Br. Median Code NO MEDIAN	20 Toll Status ON FREE ROAD
37 Historical Significance NOT ELIGIBLE FOR NR OF HP	26 Functional Classification 06-RURAL MINOR ARTERIAL
101 Parallel Struc Desg NONE EXISTS	28A Lanes on Structure 02
103 Temporary Structure NOT TEMPORARY	100 STRAHNET Designation RTE NOT A DEFENSE HWY
112 NBIS Bridge Length YES	104 National Highway System NOT ON NHS
	105 Federal Lands Highway NOT APPLICABLE
	110 Designated Nat. Network NO

STRUCTURE LOCATION INFORMATION	STRUCTURE TRAFFIC INFORMATION
4 Place KINGSTON	29 AADT 1596
Code 38882	30 AADT Year 2021
9 Location S 2066 T 39 N R 3 E	102 Direction of Traffic 2-WAY TRAFFIC
11 Milepoint 97.60 miles	109 AADT Truck Percent 14%
16 Latitude 38 D 5 M 45 S	114 Future AADT 2394
17 Longitude 90 D 44 M 51 S	115 Future AADT Year 2041

UNDERRECORD INFORMATION	STRUCTURE GEOMETRIC INFORMATION
6 Features Intersected MINERAL FK CR	10 Inventory Rte. Vert. Clear 99 Ft. 99 In.
42B Type of Service Under WATERWAY	19 By pass Detour Length 35.00 miles
28B Lanes Under Structure 00	32 Approach Roadway Width 27 Ft. 11 In.
54A Vert. Clearance Ref. N/A	34 Skew 20.00 Degrees
54B Vert. Clearance 0 Ft. 0 In.	35 Struct. Flared NO
55A Rt. Lat Clear Ref. N/A	47 Total Horiz. Clear 41 Ft. 4 In.
55B Rt. Lat Clearance 0 Ft. 0 In.	48 Maximum Span Length 60 Ft. 8 In.
56 Left Lat Clearance 0 Ft. 0 In.	49 Structure Length 421 Ft. 11 In.
38 Navigation Control PERMIT NOT REQ	50A Left Curb/Sidewalk Width 0 Ft. 8 In.
39 Nav Vertical Clear 0 Ft. 0 In.	50B Right Curb/Sidewalk Width 0 Ft. 8 In.
40 Nav Horizontal Clear 0 Ft. 0 In.	51 Curb to Curb Br. Width 40 Ft. 0 In.
111 Nav. Pier Protection	52 Deck Width (Out-Out) 42 Ft. 8 In.
116 Nav. Cl. Vert. Clear	53 Vert. Clearance Over Deck 99 Ft. 99 In.

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