

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

**PROPOSED
 HIGHWAY PLANS**

FAP 310 (US 67)
 SECTION (103BR)BRR-DL
 PROJECT
 PPC BEAM BRACING
 MERCER COUNTY

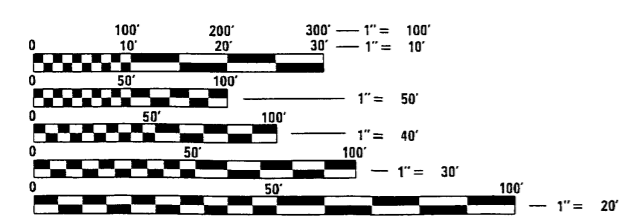
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(103BR)BRR-DL	MERCER	10	1
PPC BEAM BRACING		ILLINOIS	D.L. NO. DL4-004-18	

INDEX OF SHEETS:

1. COVER SHEET
2. COMMITMENTS AND JOB NOTES
3. SUMMARY OF QUANTITIES
- 4-5. SCHEDULE OF QUANTITIES & PLATS
6. GENERAL LAYOUT
7. TRAFFIC CONTROL
- 8-10. STRUCTURE DETAILS

HIGHWAY STANDARDS:

701001-02	701301-04
701006-05	701901-07
701201-04	



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123
 OR 811

PROJECT ENGINEER: MARK ECKHOFF Ph: (309) 671-4463
 PROJECT MANAGER: CLARK JONES Ph: (309) 671-3452

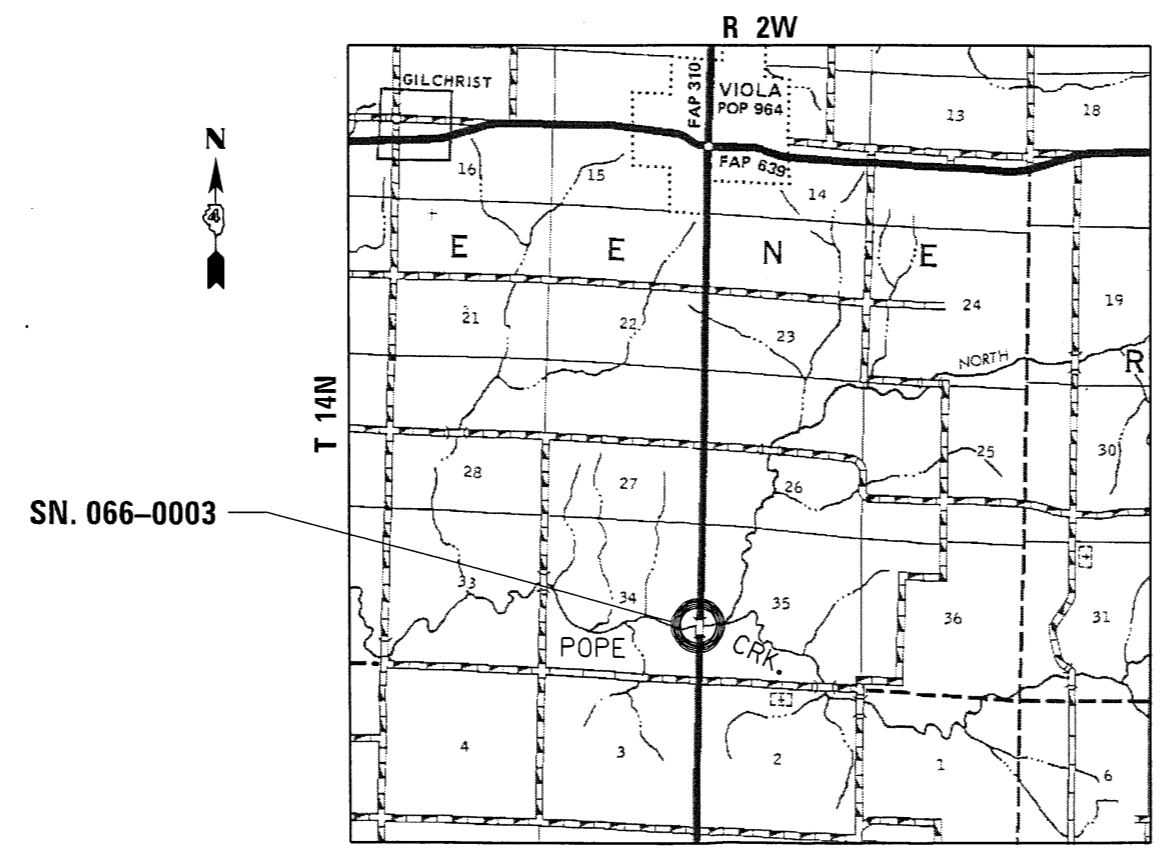
DAYLABOR NO. DL4-004-18 CATALOG NO. 035606-00D

066-0003

GROSS LENGTH = 200 FT. = 0.379 MILE
 NET LENGTH = 200 FT. = 0.379 MILE



THIS PROJECT CONSISTS OF PLACING STEEL SUPPORT BEAMS UNDER DETERIORATED PPC BEAMS ON STRUCTURE (SN 066-0003) CARRYING US67 OVER POPE CREEK THREE MILES SOUTH OF VIOLA IN MERCER COUNTY



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

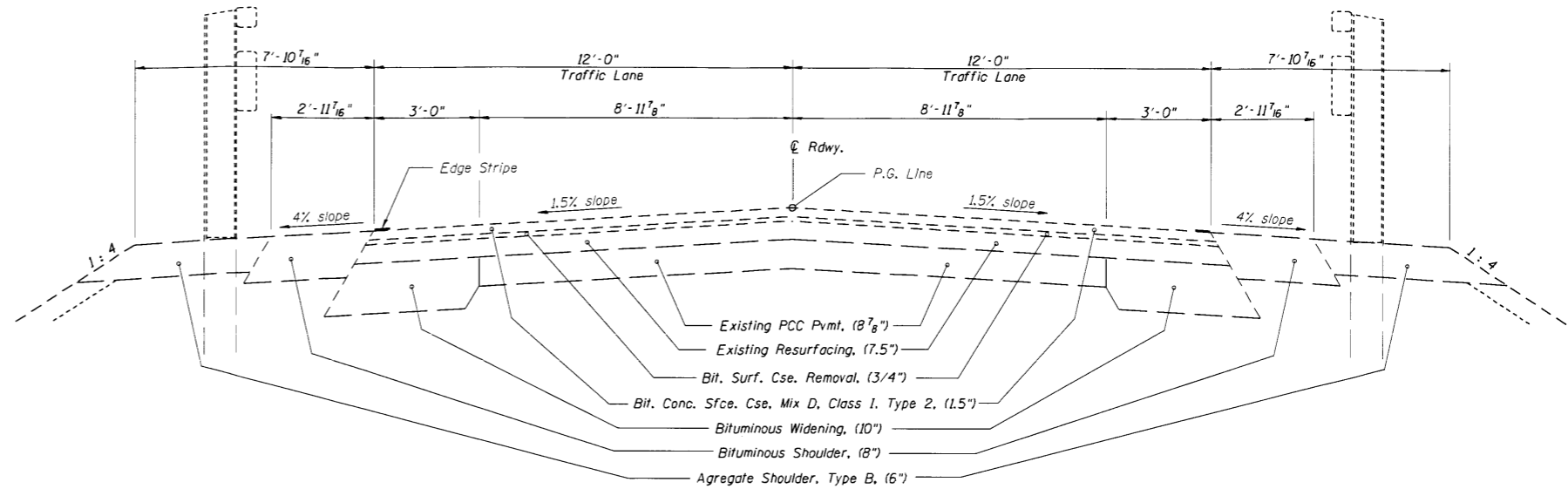
SUBMITTED Feb 28 2018
Kensi A. Garnett (KSD)
 REGION THREE ENGINEER

 ENGINEER OF DESIGN AND ENVIRONMENT

 DIRECTOR OF PROGRAM DEVELOPMENT

**PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS**

DL



ROADWAY SECTION

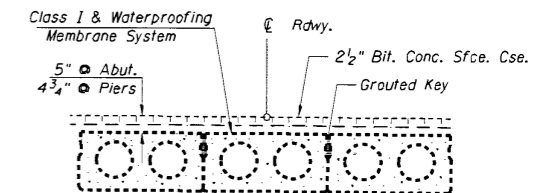
Lt. & Rt. Sta. 10+317.480 to Sta. 10+530.246
 Lt. & Rt. Sta. 10+560.666 to Sta. 10+873.157

COMMITMENTS

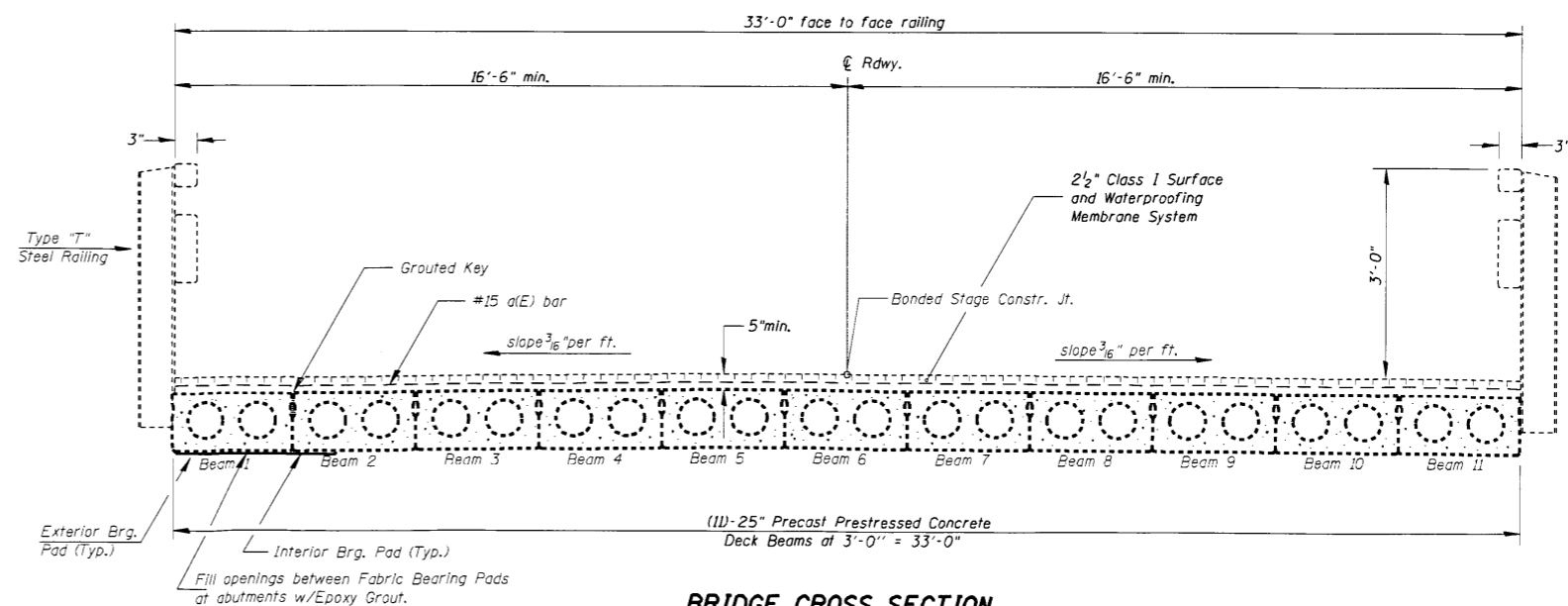
No commitments have been made for this project

JOB SPECIFIC NOTES

Construction field requirements for guardrail work shall be according to Article 633 of the "Standard Specifications for Road and Bridge Construction".
 Construction field requirements for Erosion Control Blanket work shall be according to Supplemental Specification for Section 10B1.
 Onsite storage of metal materials shall be off of the pavement and according to Article 1006.34



CLASS I DETAIL & WATERPROOFING TREATMENT



BRIDGE CROSS SECTION
(Looking North)

FOR INFORMATION ONLY

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

JOB NOTES & COMMITMENTS
 SN 066-0003

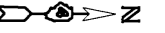
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(103BR)RR-DL	MERCER	10	2
PPC BEAM BRACING			D.L. NO. DL4-004-18	
ILLINOIS FED. AID PROJECT				

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
S:\GEN\DRAW\STD&PLNS\sq\BRIDGES\BRIDGE CONTRACTS\PPC BEAM REP\8-0603\DL4-2018	jonesca	DRW 08/03/18	REV 08/03/18
		CHECKED -	REVISED -
		DATE -	REVISED -

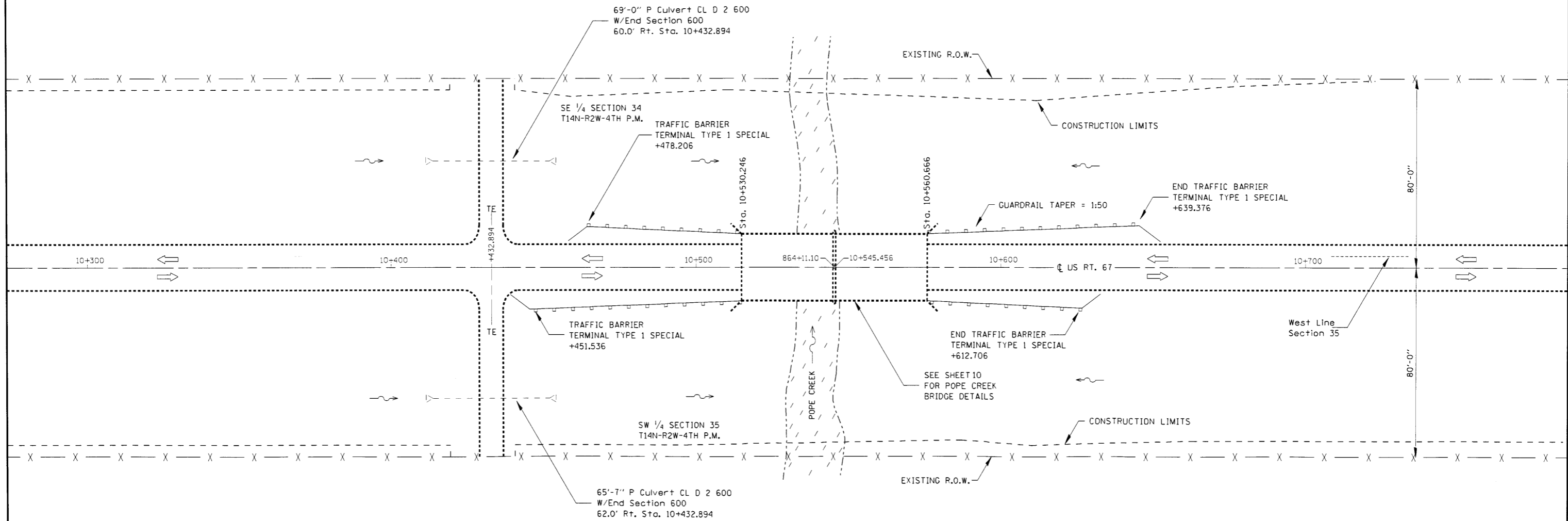
SCALE: SHEET OF SHEETS STA. TO STA.

BENCHMARK #66:
Sta. 10+528.601 - 5.791m. Rt. Chiseled Square on top of
East end wingwall of Pope Creek bridge, Elev. 203.067

T14N-R2W-4TH P.M.
SECTION 34 & 35



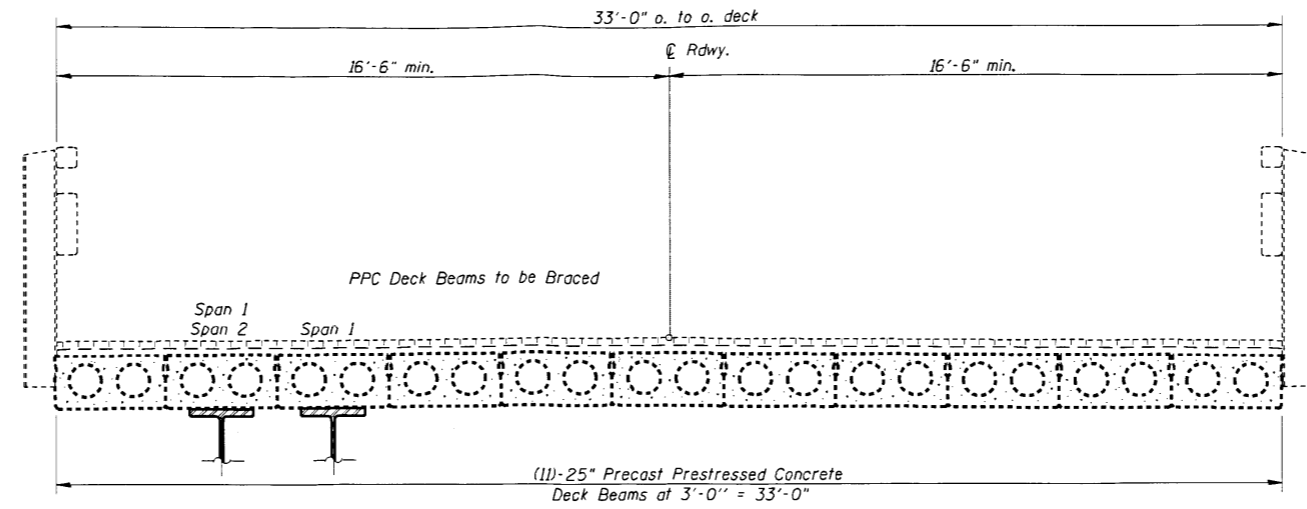
DANIEL S. MILLER
AND
RHONDA E. MILLER



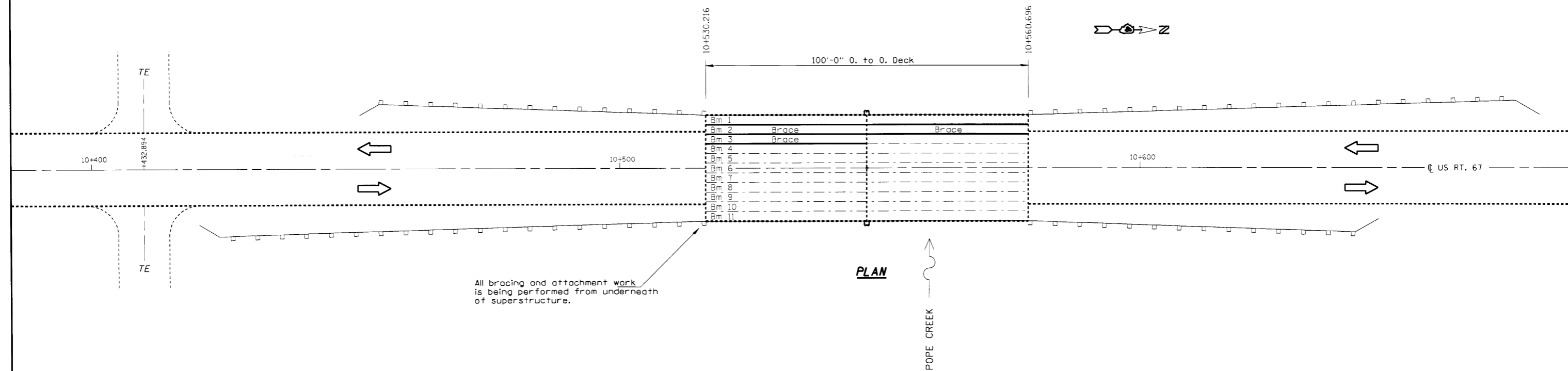
JON E. RICKETTE
AND
RHONDA L. RICKETTS

NOTES
When it is necessary for the Contractor to remove guardrail for temporary off-road access the appearance and condition of the affected sod area shall be left as it was found and according to the discretion of the Engineer. All necessary work and seeding of minor areas shall be included in cost of Erosion Control Blanket.

FILE NAME =	USER NAME = Jonesce	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL LAYOUT SN 066-0003	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
S:\GEN\DRAWING\STD&PLNS\Square\BRIDGES\BRIDGE CONTRACTS\PPC BEAM REP\Bracing\DL4-2018	DRWN 0203 PopeCk. Bracing\066-0003 US	CHECKED -	REVISED -			310	(103BR)BR-DL	MERCER	10	6	
Default	PLOT SCALE = 20.0000' / 1" /	DATE -	REVISED -			PPC BEAM BRACING		D.L. NO. DL4-004-18			
	PLOT DATE = 2/28/2018					ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET OF SHEETS		STA.	TO STA.		



BRIDGE CROSS SECTION
(Looking North)



FILE NAME =	USER NAME = jonesc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE DETAILS SN 066-0003	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S:\GEN\DRAWING\STD&PLNS\Squad\BRIDGES\BRIDGE CONTRACTS\PPC BEAM REP\Bracing\DL4-2018-0003 PopeCrk. Bracing\066-2003 REVISED PopeCrk.dgn	DRWN 0003	PPC BEAM REP\Bracing\DL4-2018-0003	REVISED -			310	(103BR)BRR-DL	MERCER	10	8
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -	PPC BEAM BRACING			D.L. NO. DL4-004-18				
Default	PLOT DATE = 2/28/2018	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
SCALE:	SHEET	OF	SHEETS	STA.	TO STA.					

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

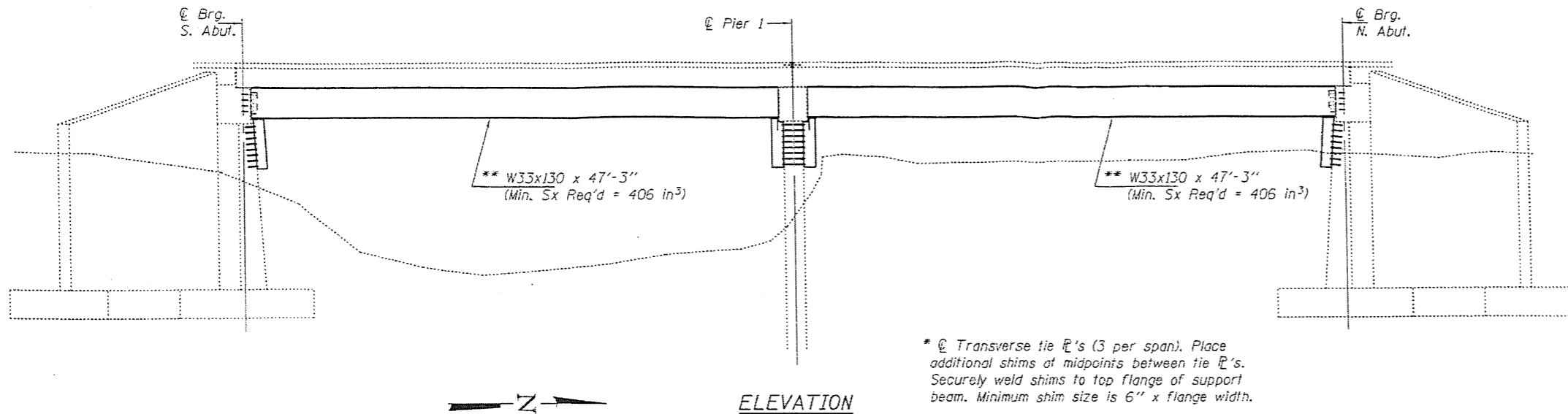
The contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the contractor's responsibility to account for the condition of the beams when developing construction procedures.

See Section 584 of the Standard Specifications for Epoxy Grouting of Threaded Rods; Minimum embedment 9".

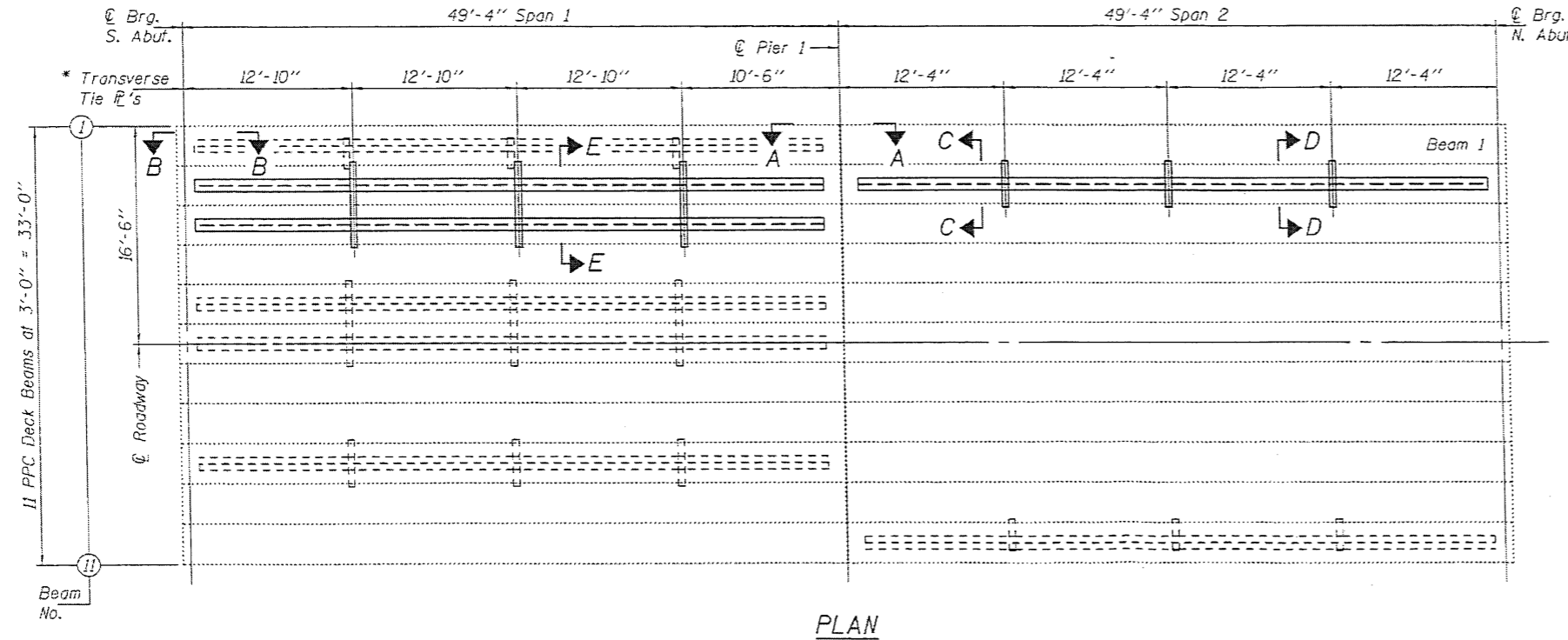
If the contractor's procedure for placement of beams involves placement of cranes or other heavy equipment on the bridge, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the existing beams. To distribute load to multiple beams and protect the existing surface, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams.

The cost of epoxy grouting threaded rods on the pier cap, abutments and beams shall be included with Furnishing and Erecting Structural Steel.

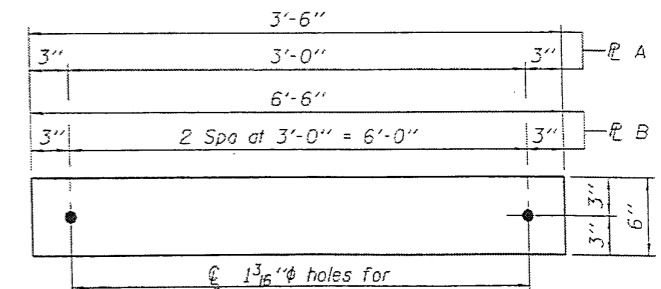
The Contractor has the option of using used steel. See Special Provisions.



* C Transverse tie R's (3 per span). Place additional shims at midpoints between tie R's. Securely weld shims to top flange of support beam. Minimum shim size is 6" x flange width.



** Contractor is to verify beam length prior to ordering material. Other sections meeting the section modulus requirements shown may be allowed subject to approval by the Bureau of Bridges and Structures. Maximum Girder depth = 33". No additional payment will be allowed if the contractor chooses a heavier steel section than the one specified in the plans.

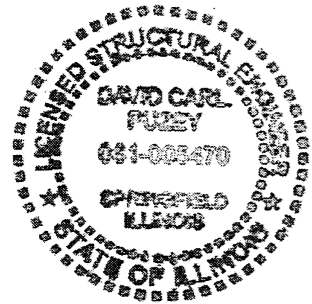


TRANSVERSE TIE R'S

R A 1/2" x 3'-6" x 6" (3 Req'd)
R B 1/2" x 5'-6" x 6" (3 Req'd)

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Furnishing and Erecting Structural Steel	Pound	21380



EXPIRES 11-30-2018

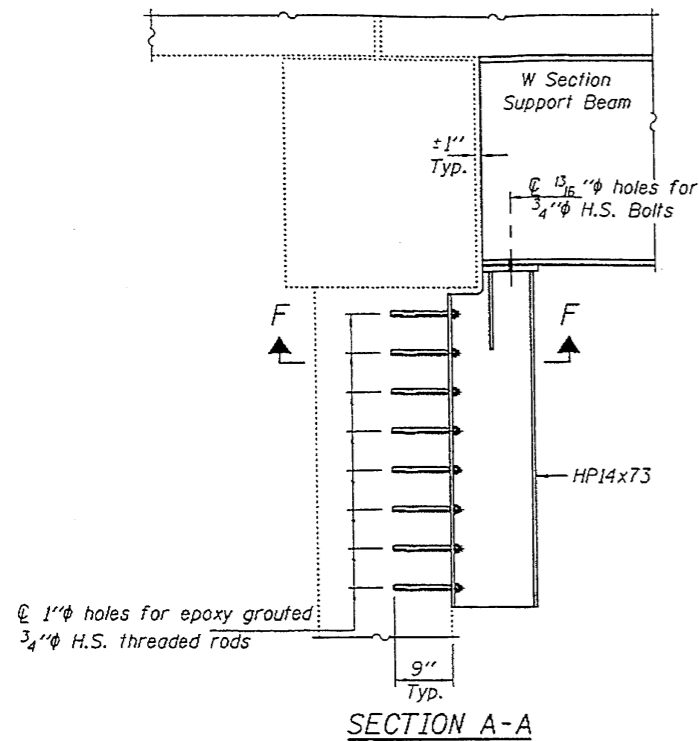
DESIGNED <i>Victor H. Velazquez</i>	EXAMINED <i>Tony A. Holt</i>	DATE FEBRUARY 7, 2018
CHECKED <i>Patricia S. Davis</i>	PASSED <i>David Carl Puley</i>	REVISOR
DRAWN <i>bativa</i>	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR
CHECKED <i>David V. H.</i>		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

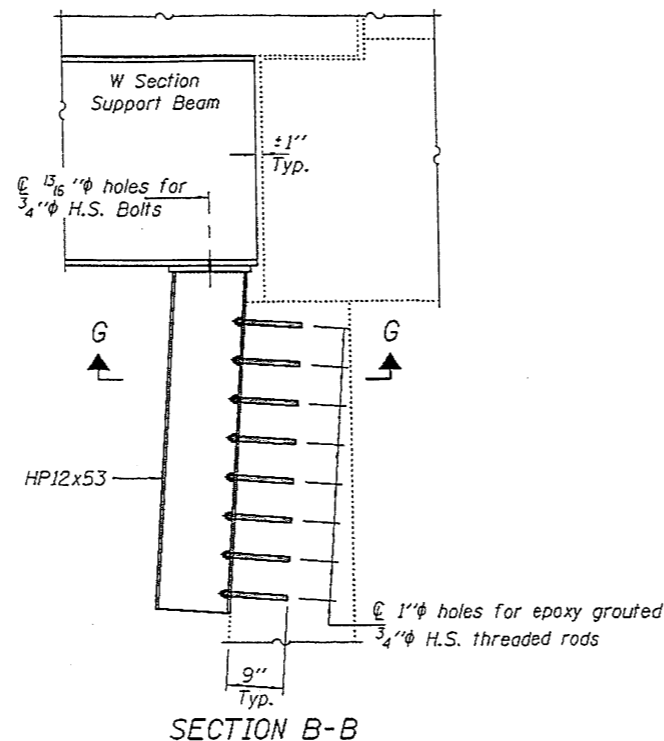
PLAN AND ELEVATION
FAP 310 (US 67) OVER POPE CREEK
SN 066-0003

SHEET 1 OF 2 SHEETS

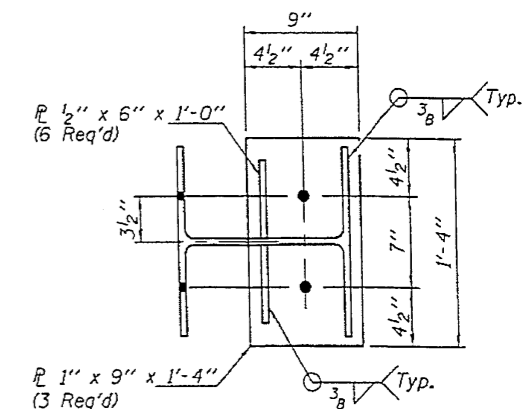
F.A.P. RTE. 310	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		MERCER	-	-
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



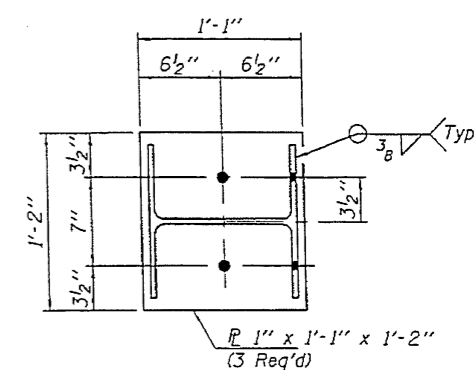
SECTION A-A



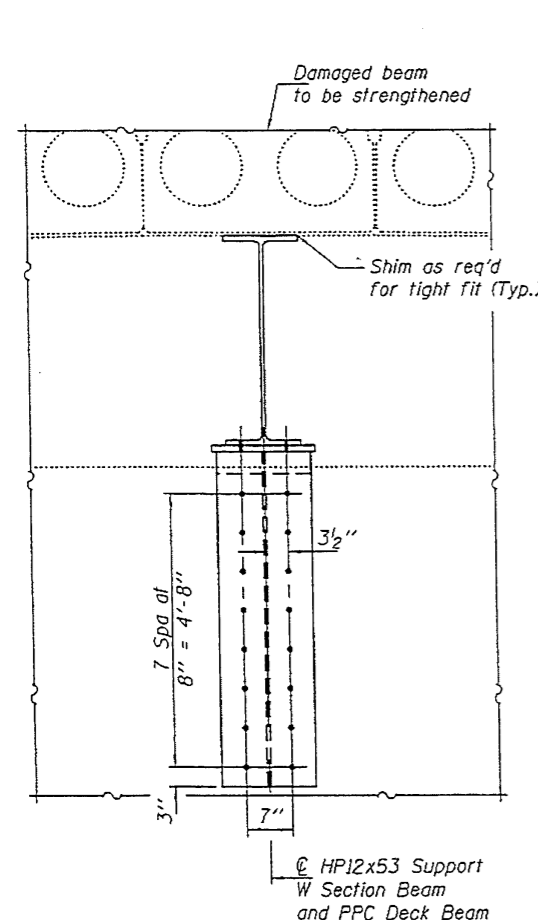
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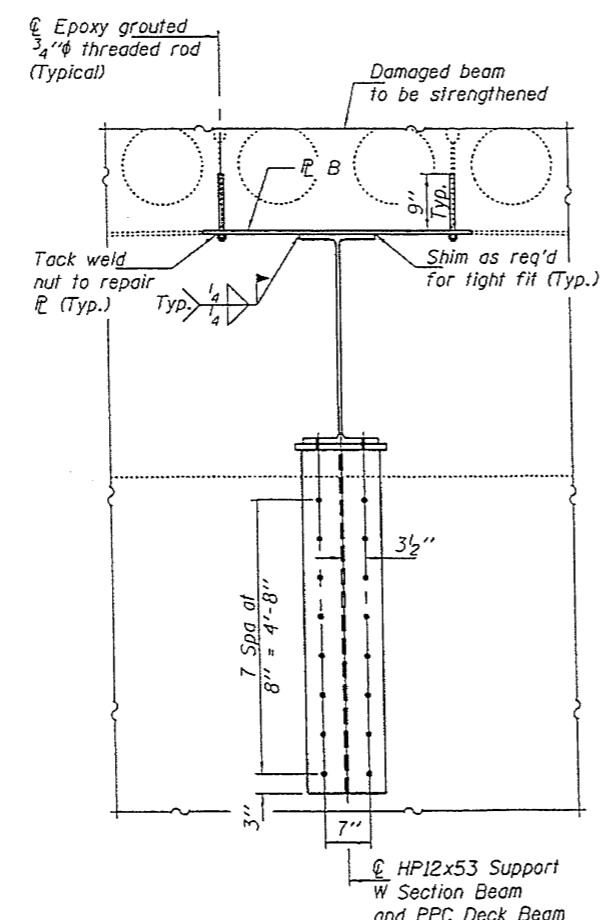
SECTION F-F



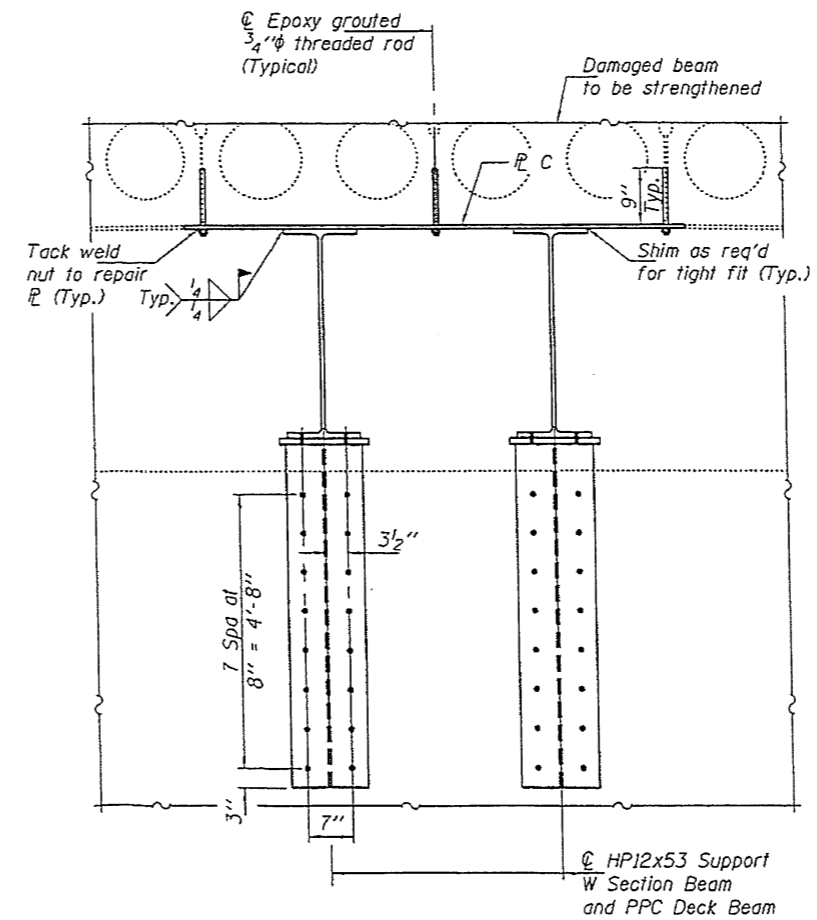
SECTION G-G



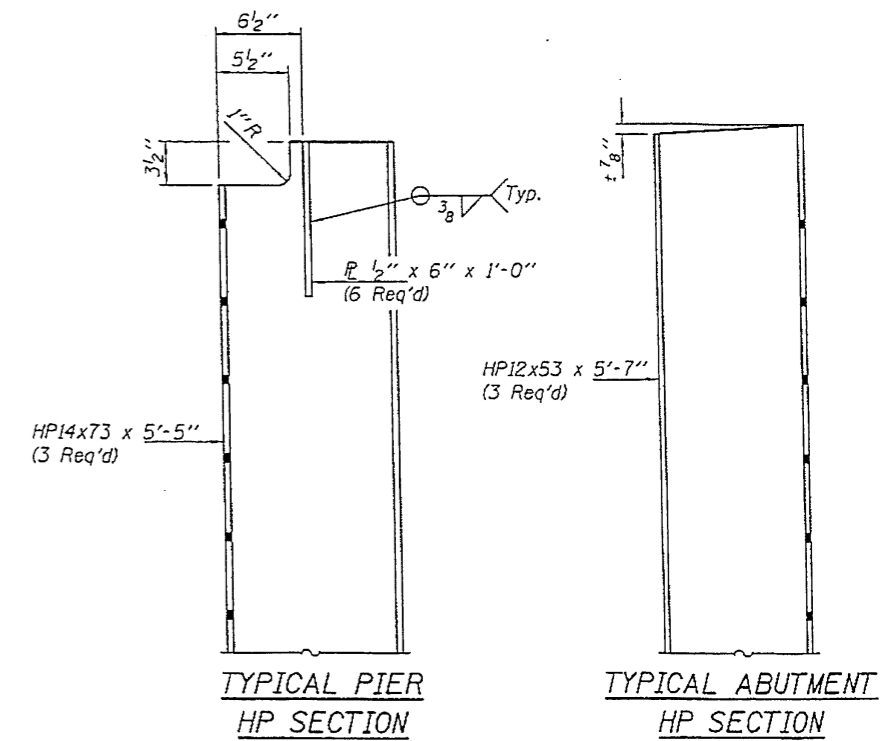
SECTION C-C



SECTION D-D



SECTION E-E



TYPICAL PIER HP SECTION

TYPICAL ABUTMENT HP SECTION

DESIGNED VHV	EXAMINED <i>Timothy A. ...</i>	DATE FEBRUARY 7, 2018
CHECKED DAB	ENGINEER OF STRUCTURAL SERVICES	
DRAWN <i>baliva</i>	PASSED <i>Carl ...</i>	REVISOR
CHECKED VHV DAB	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPPORT DETAILS
SN 066-0003

SHEET 2 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	-	MERCER	-	-
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(103BR)I-1	MERCER	9	1

14
13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP 310 (US.67)
SECTION (103BR)I-1
MERCER COUNTY
C-94-131-07

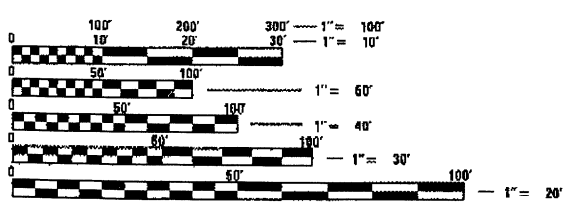
INDEX OF SHEETS:

1. COVER SHEET
2. GENERAL NOTES
3. SUMMARY OF QUANTITIES
4. TYPICAL SECTIONS
5. SCHEDULE OF QUANTITIES
6. GENERAL LAYOUT
7. TRAFFIC CONTROL
- 7A-7D. REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL
- 8-9. GENERAL PLAN, ELEVATION, BEAM DETAILS

99.5%
5-10-2008

STANDARDS:

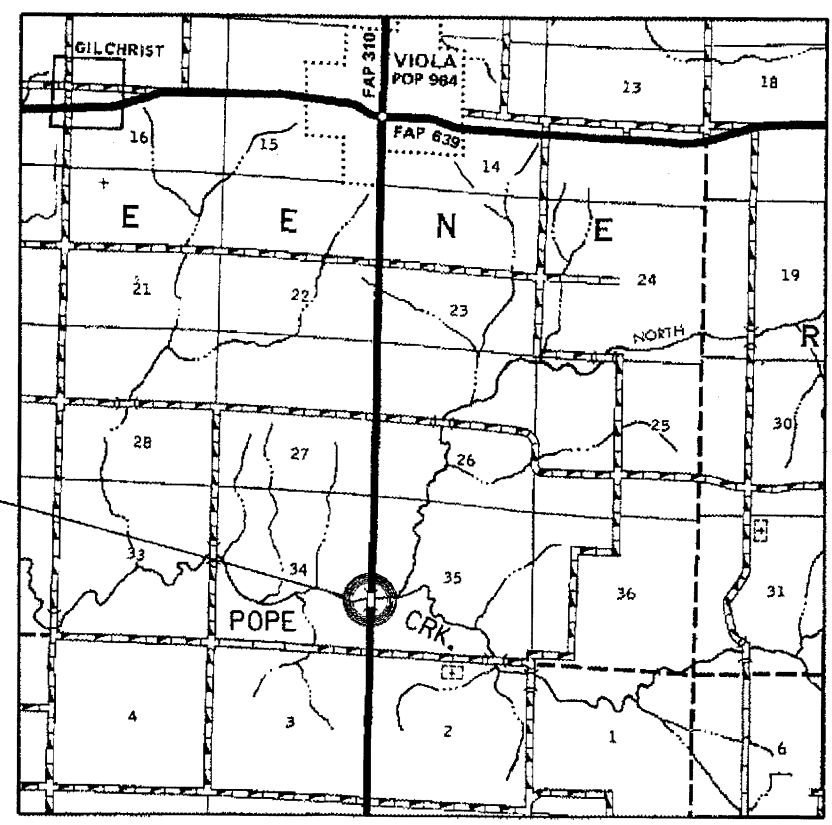
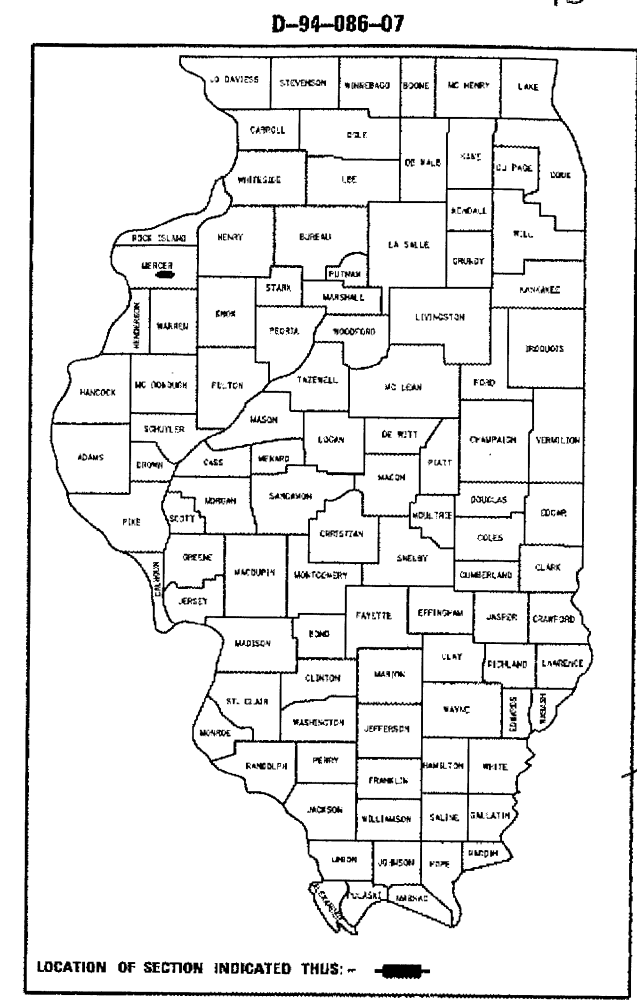
- 701001-01 701901
- 701006-02 780001-01
- 701201-02



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

CONTRACT NO. 68752 CAT. NO. 033591-00D **066-0003**



LOCATION MAP

PROJECT CONSISTS OF THE INSTALLATION OF STEEL SUPPORTING BEAMS FOR BRACING (5) DETERIORATED PPC BEAMS ON STRUCTURE (SN.066-0003) CARRYING US67 OVER POPE CREEK THREE MILES SOUTH OF VIOLA.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *Oct 19, 2007*
John E. [Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Dec 7, 2007
Eric E. [Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

Dec 7, 2007
Christine M. [Signature]
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

PHONE: (309)671-3451

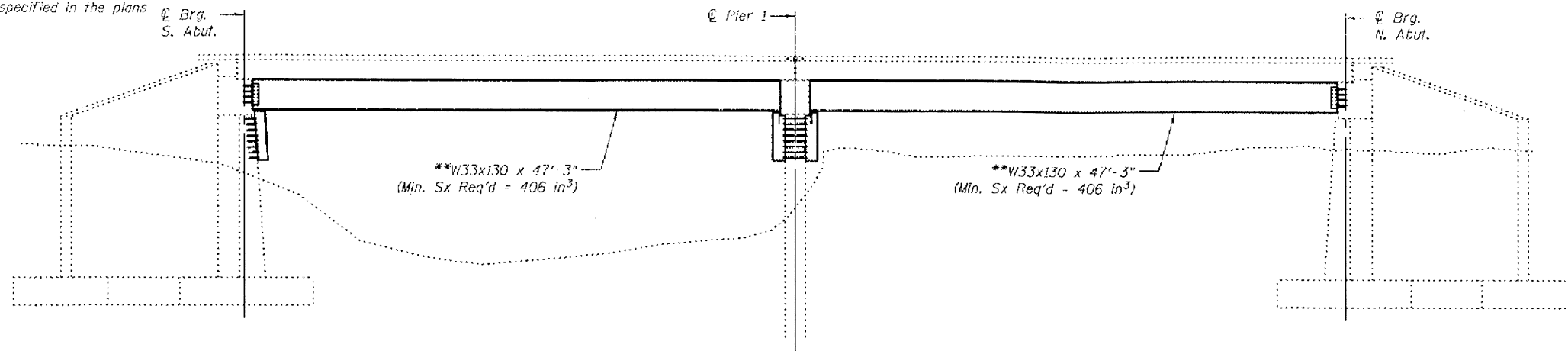
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	DATE	SHEET NO. 1
FA 53		Mercer	9	B	2 SHEETS
PROJECT DIST. NO. 7	TITLE	FED. AID PROJECT			

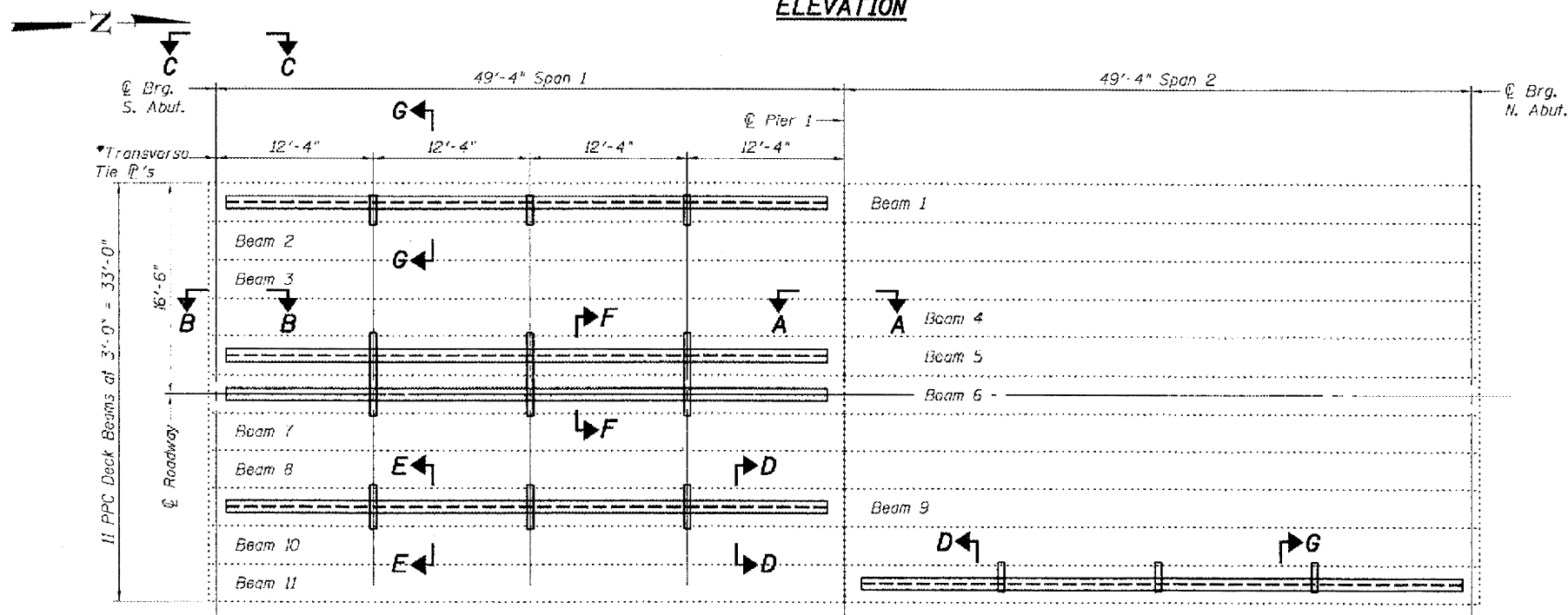
Contract Number: 68752

**Contractor is to verify beam length prior to ordering material. Other sections meeting the section modulus requirements shown may be allowed subject to approval by the Bureau of Bridges and Structures. Maximum Girder depth = 33". No additional payment will be allowed if the contractor chooses a heavier steel section than the one specified in the plans.

*C Transverse tie P's (3 per span). Place additional shims at midpoints between tie P's. Securely weld shims to top flange of support beam. Minimum shim size is 6" x flange width.



ELEVATION



PLAN

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

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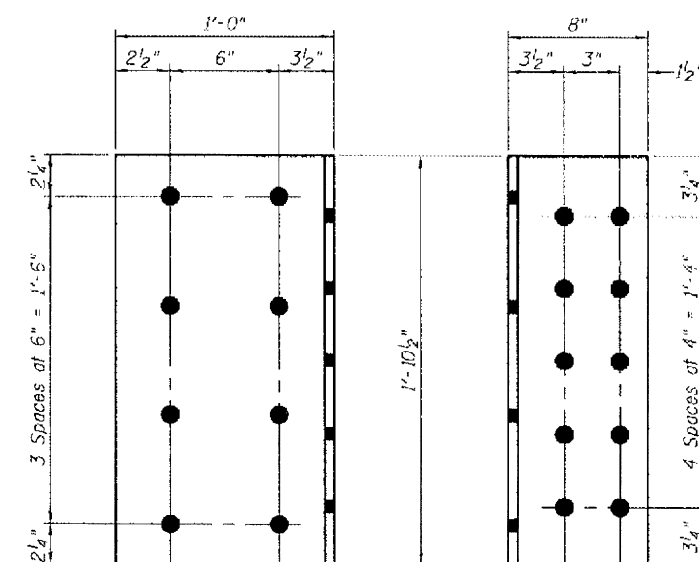
The contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the contractor's responsibility to account for the condition of the beams when developing construction procedures.

See Section 584 of the Standard Specifications for Epoxy Grouting of Threaded Rods; Minimum embedment 9".

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The cost of epoxy grouting threaded rods on the pier cap, abutments and beams shall be included with Furnishing and Erecting Structural Steel.

The Contractor has the option of using used steel. See Special Provisions.

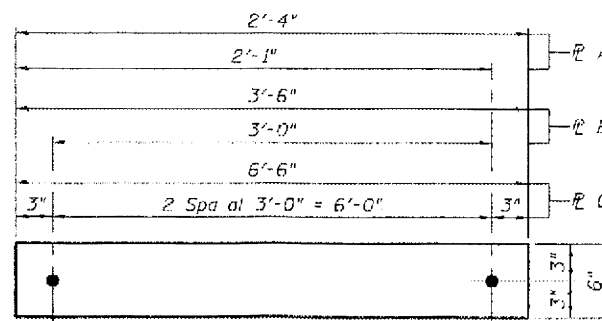


1" holes for epoxy grouted 3/4" H.S. threaded rods.

1" holes for 3/4" H.S. Bolts

BENT P D

P 1/2" x 1'-7 1/2" x 1'-10 1/2" (4 Req'd)



TRANSVERSE TIE P'S

P A 1 1/2" x 2'-4" x 6" (6 Req'd)
P B 1 1/2" x 3'-6" x 6" (3 Req'd)
P C 1 1/2" x 6'-6" x 6" (3 Req'd)

TOTAL BILL OF MATERIAL

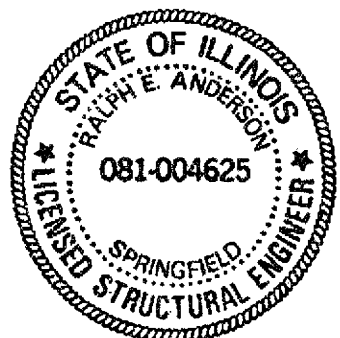
ITEM	UNIT	QUANTITY
Furnishing and Erecting Structural Steel	Pound	34,900

PLAN AND ELEVATION

F.A.P. RT 310
MERCER COUNTY
SN 066-0003

DESIGNED	November 7, 2007
CHECKED	
DRAWN	
CHECKED	SJB HJB

EXAMINED
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

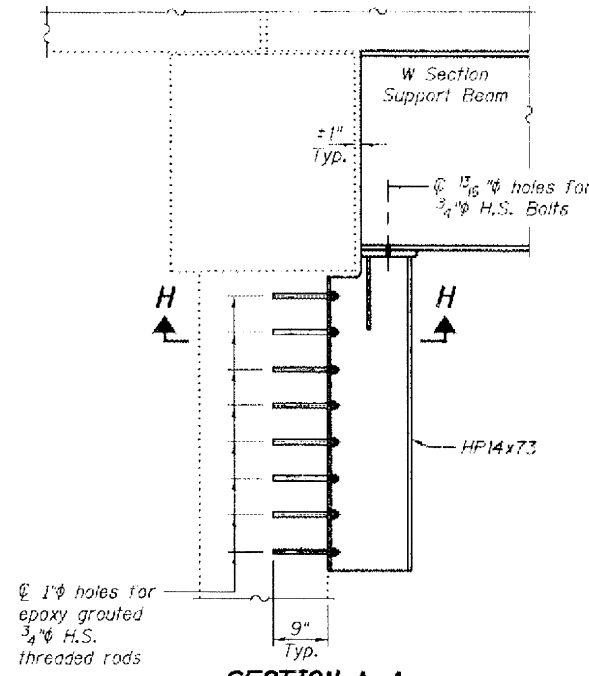


Expires: November 30, 2008

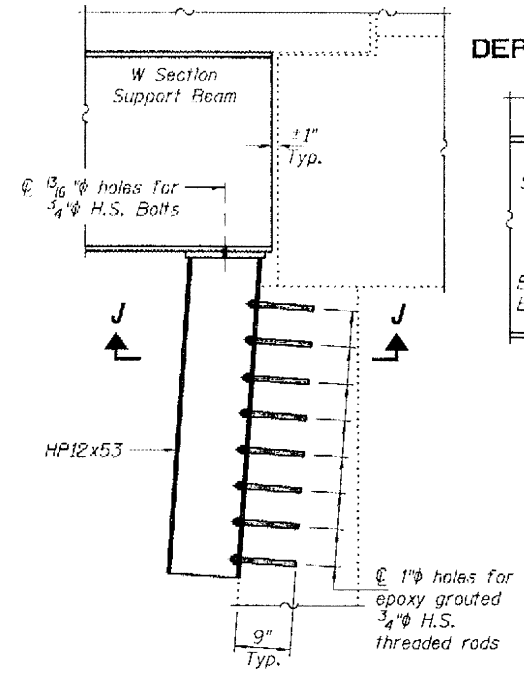
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	DATE	SCALE	NO.	SHEET NO.
FA 53		Noted	9	2 SHEETS
CONTRACT NO.	NUMBER	REVISION		

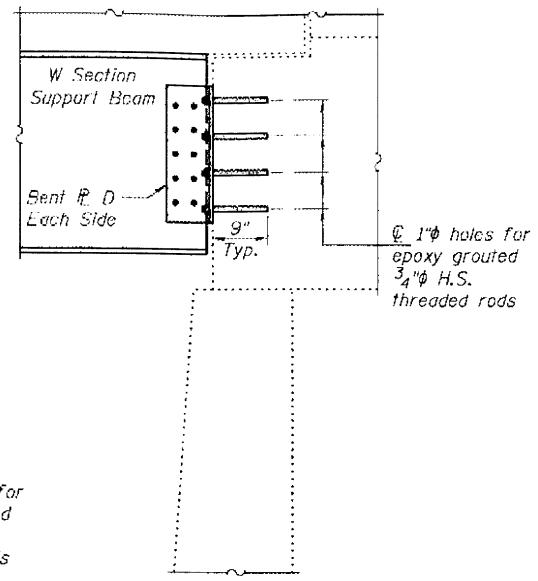
Contract Number: 68752



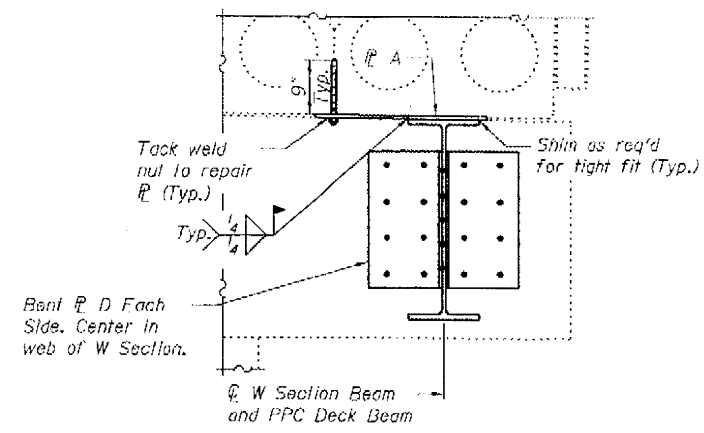
SECTION A-A



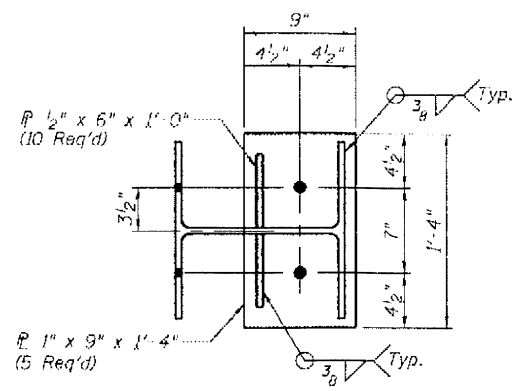
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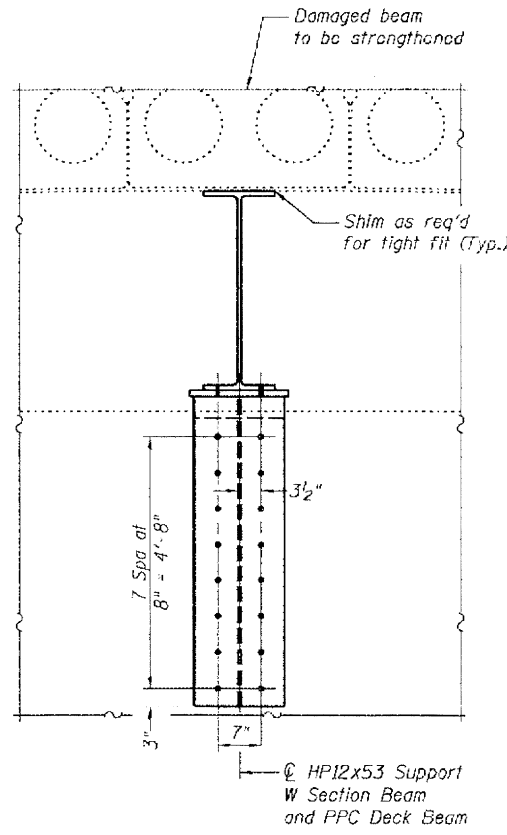
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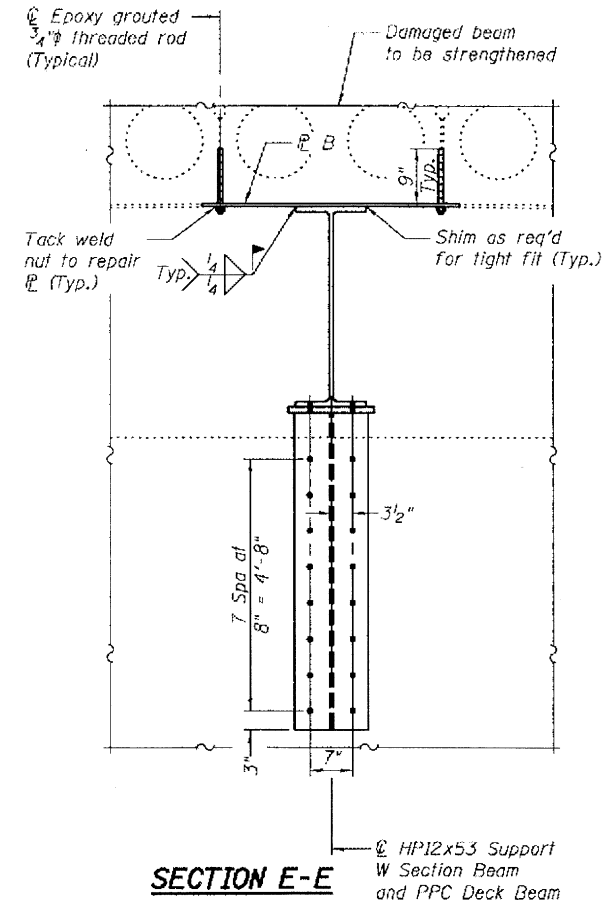
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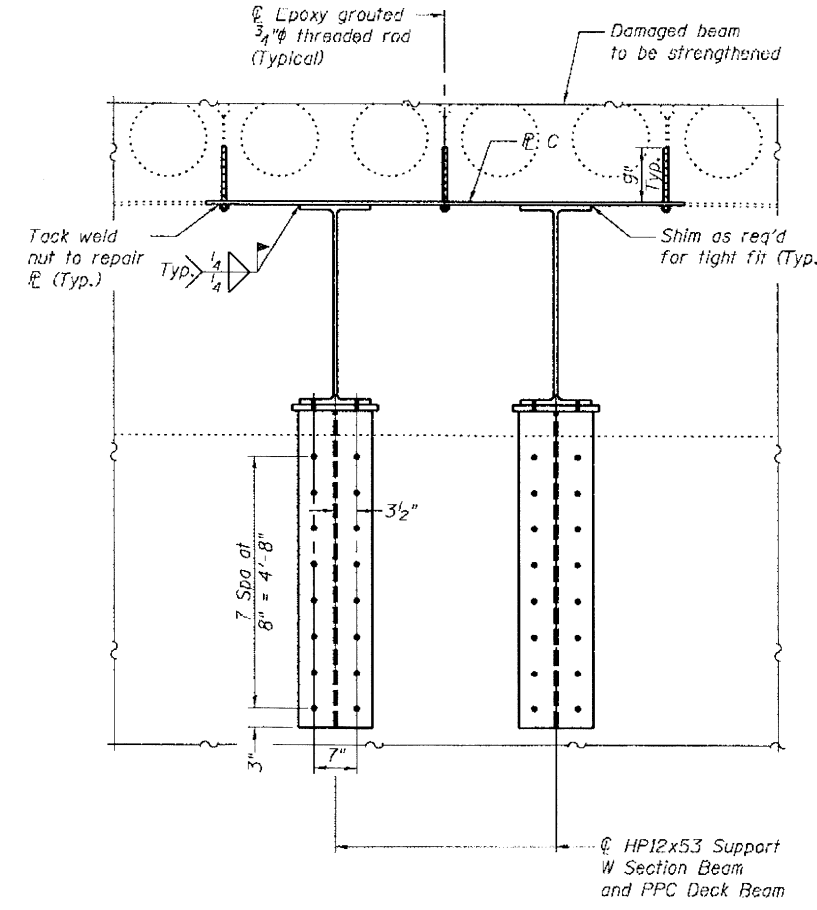
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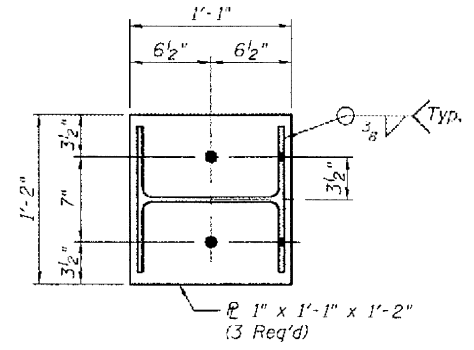
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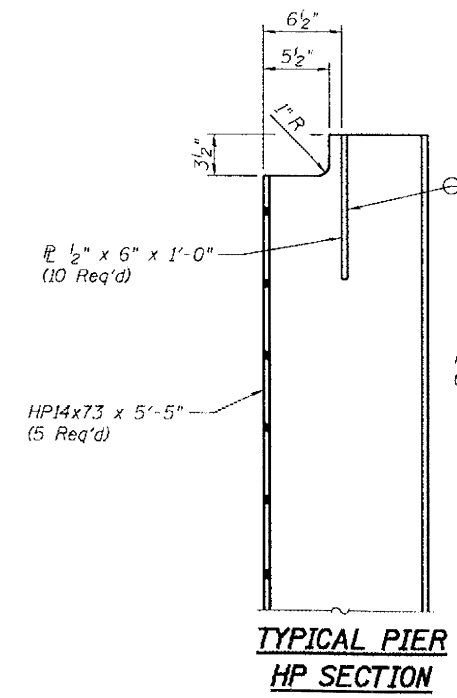
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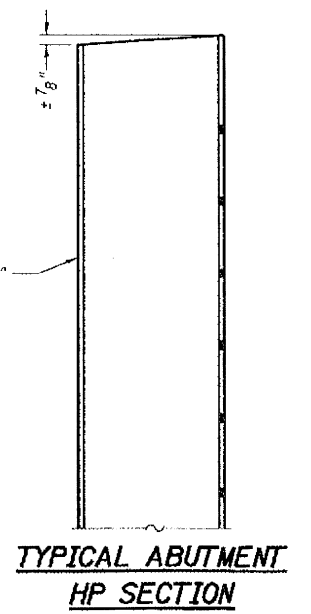
SECTION F-F



SECTION J-J



TYPICAL PIER HP SECTION



TYPICAL ABUTMENT HP SECTION

DESIGNED	S.J.B.	November 7, 2007
CHECKED	A.J.B.	EXAMINED <i>Carl Perry</i> ENGINEER OF STRUCTURAL SERVICES
DRAWN	Drew Christopher	PASSED <i>Ralph E. Anderson</i> ENGINEER OF BRIDGES AND STRUCTURES
CHECKED	S.J.B. A.J.B.	

SUPPORT DETAILS
F.A.P. RT 310
MERCER COUNTY
SN 066-0003

COPY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	#	MERCER	222	1
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
# (102,103X,103)RS-3,(103BR)I				

D-94-086-89

57

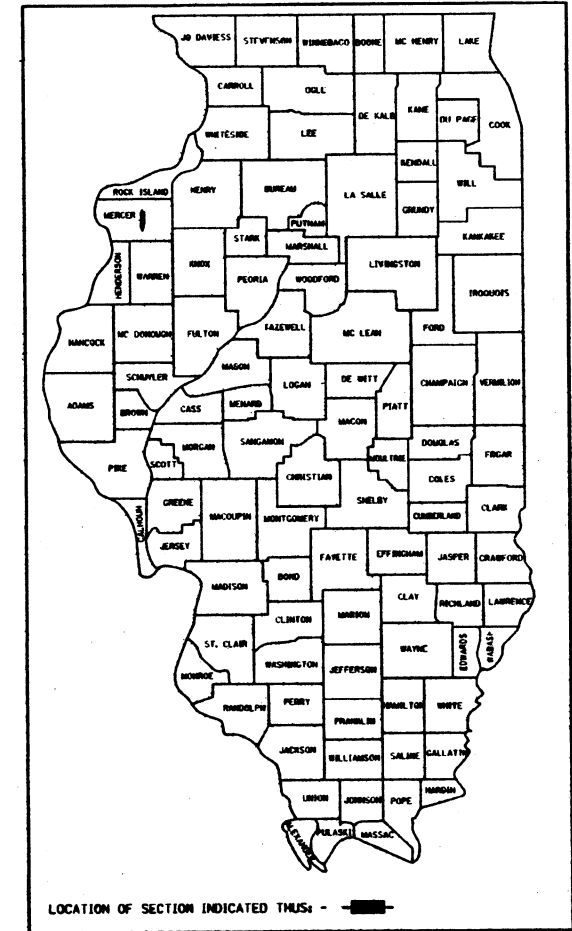
FOR INDEX OF SHEETS, SEE PAGE #2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

95%
12-16-2000

PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

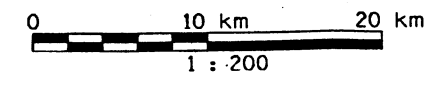
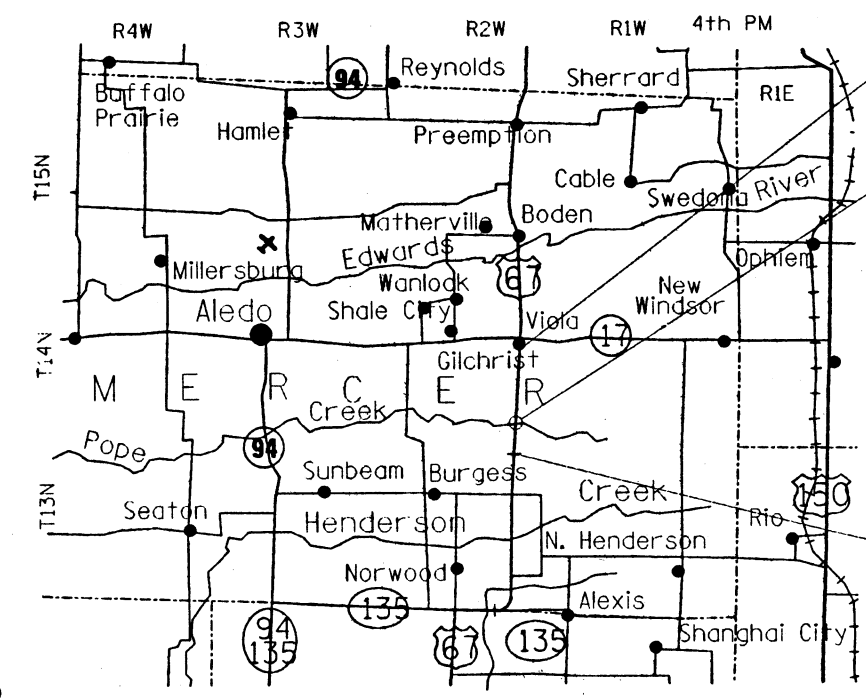
FAP ROUTE 310 (US 67)
SECTION (102,103X,103)RS-3,(103BR)I
PROJECT NHF-310(55)
MERCER COUNTY
RESURFACING
C-94 358 89



FAP RTE 310
PROJECT ENDS
STA 14+813.752

SECTION (103BR) I INCLUDES:
EXISTING BITUMINOUS SURF AC 10 HF
REMOVED AND REPLACED WITH A CONCRETE
WEARING SURFACE ON AN EXISTING TWO
SPAN (2 @ 15.2 m) PRECAST PRESTRESSED
CONCRETE DECK BEAM STRUCTURE ALONG
WITH REPAIRS TO EXISTING DECK AND
SUBSTRUCTURE.
BRIDGE STATION 10+545.456
EX STRUCTURE NO. 066-0003

FAP RTE 310
PROJECT BEGINS
STA 7+170.000

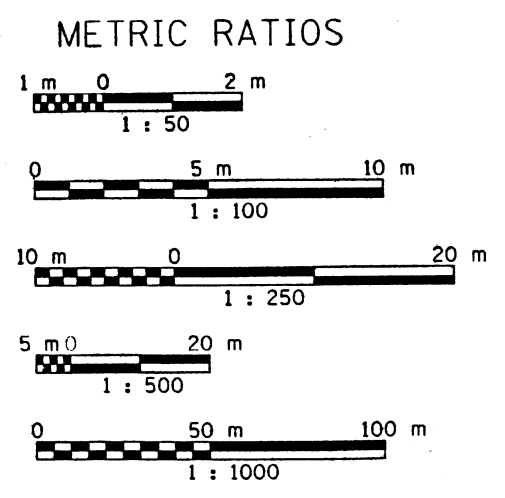


N.P.D.E.S. PERMIT REQUIRED
LATITUDE = 41°08'30"
LONGITUDE = 90°35'30"

ADT = 4000 (1997)
MI = 102
0A/0C BITUMINOUS

SURVEY BOOK NOS.
2763A-2763Z
2763AA-2763CC

DESIGN DESIGNATION
360 (17) MAJOR 3.81 (FD-20)



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

FOR JOINT UTILITY INFORMATION CALL TOLL FREE
1-800-892-0123

CATALOG NO. 030038-03
CONTRACT NO. 88148

066-0003

GROSS AND NET LENGTH OF PROJECT: 7,643.752 m = 7.644 km

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED OCT 22 1999

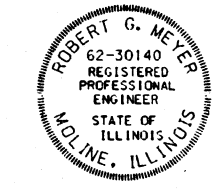
Joseph E. Cune
DISTRICT ENGINEER

December 3, 1999
Bill Pennington
ENGINEER OF DESIGN AND ENVIRONMENT

December 3, 1999
James R. Sifon
DIRECTOR OF DIVISION OF HIGHWAYS

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

4-219



Signed Robert G. Meyer Date 11-16 1999
ROBERT G. MEYER, P.E.
EXPIRES: NOVEMBER 30, 2001

BELING CONSULTANTS

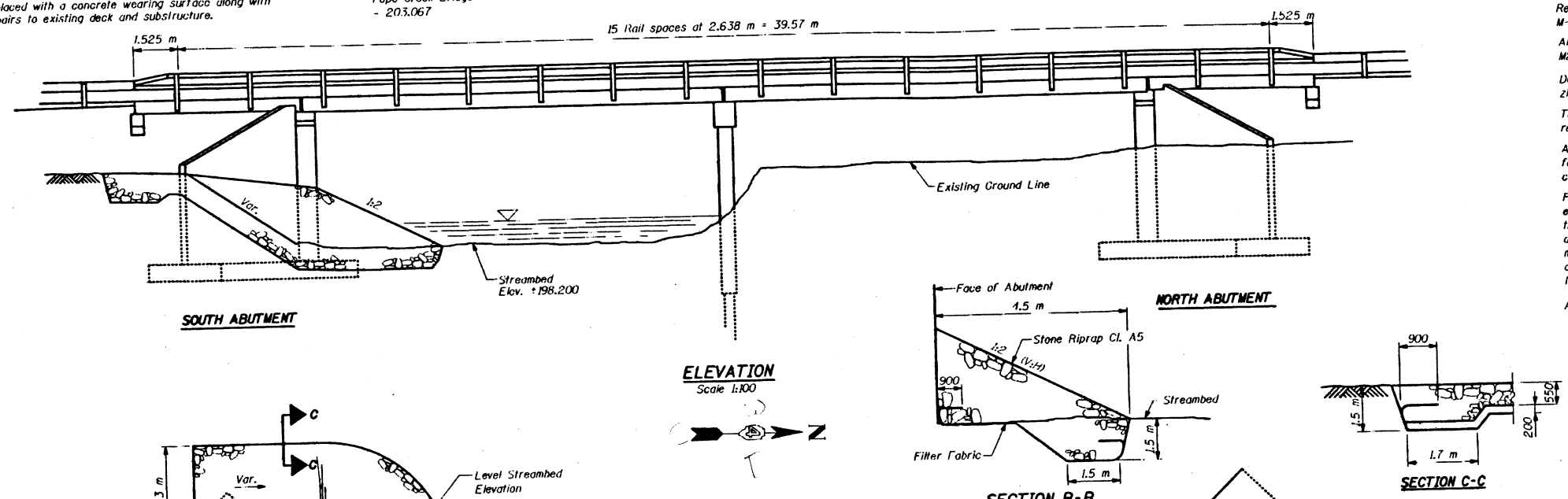
CONSULTANT LIAISON: K. PARK (309)671-3466

PROJECT ENGINEER: T. LACY (309)671-3462

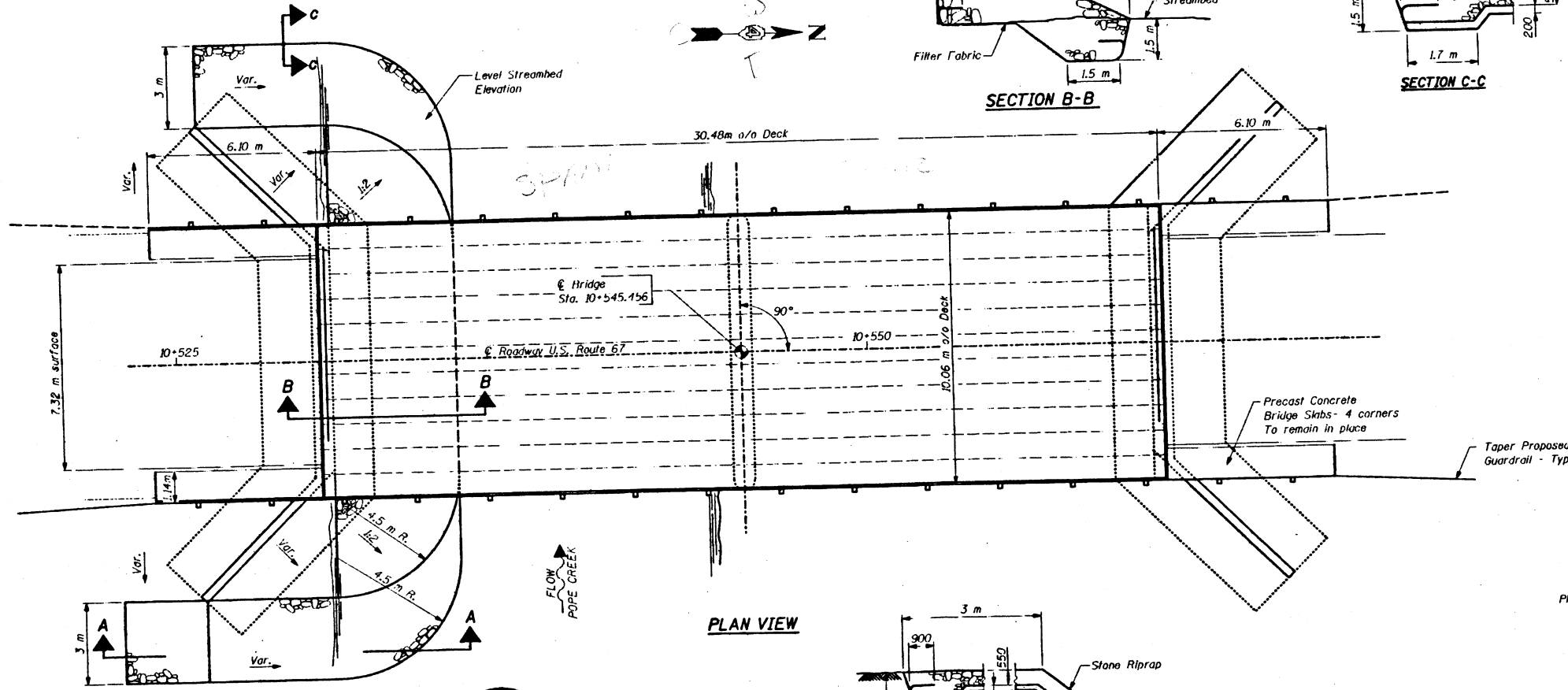
EXISTING STRUCTURE: No. 066 0003
 A two (2) (15.2 m) Precast Prestressed Concrete Deck Beam bridge on closed concrete abutments and pile bent pier with solid stem.
 Existing bituminous wearing surface to be removed and replaced with a concrete wearing surface along with repairs to existing deck and substructure.

BENCHMARK:
 Sta. 10+528.600, 5.791 m RL.
 Chiseled square in top of Southwest wingwall of Pope Creek Bridge - 203.067

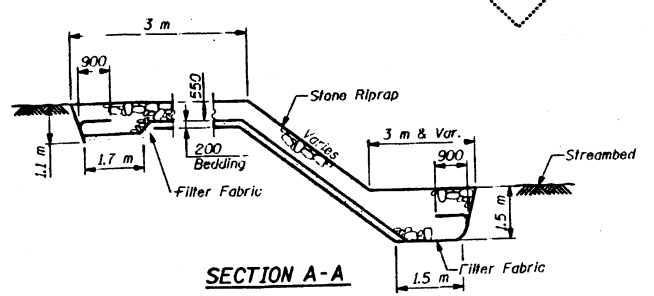
15 Rail spaces at 2.638 m = 39.57 m



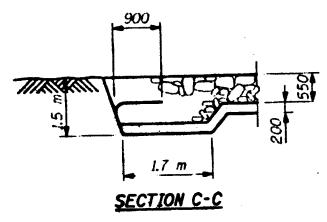
ELEVATION
 Scale 1:100



PLAN VIEW



SECTION A-A



SECTION C-C

GENERAL NOTES:

This structure will retain the same structure number 066-0003.
 Reinforcement bars shall conform to the requirements of AASHTO M-31M, M-42M or M 53M Grade 400.
 All structural steel (deck plates and attached bars) shall be AASHTO M270 Grade 250.
 Deck joint plates and attached bars shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1.
 The minimum thickness of the concrete overlay shall be 127mm and varies as required to adjust for existing profile grade and beam camber.
 All keyway repair shall be done after sandblasting of deck. Exact locations for keyway repairs will be determined by the Engineer after the bituminous concrete removal. Refer to Special Provisions for description of keyway repair.
 Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
 All dimensions are in millimeters (mm) unless noted otherwise.

BILL OF MATERIAL

ITEM	UNIT	QUANT.
Bituminous Concrete Surface Removal Complete	m ²	306
Preformed Joint Seal 45 mm	m	10
Concrete Wearing Surface	m ²	306
Furnishing and Erecting Structural Steel	Kg	1060
Reinforcement Bars, Epoxy Coated	Kg	3580
Removing and Re-erecting Existing Railing	m	85
Polymer Modified Portland Cement Mortar	m ²	1.37
Epoxy Crack Sealing	m	10.3
Concrete Deck Beam Repair	m ²	0.78
Keyway Repair	m	51.8
Bearing Pad Adjustment	Each	22
Dowel Repair	Each	15
Protective Coat	m ²	306
Bridge Deck Grooving	m ²	306
Stone Riprap, Class A5	m ³	481
Filter Fabric for use with Riprap	m ²	208

* Estimated Quantity

INDEX OF BRIDGE SHEETS

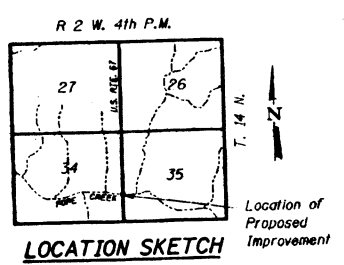
- GENERAL PLAN & ELEVATION
- DFCK REPAIRS
- RAILING REPAIRS
- CONCRETE DECK BEAM REPAIR
- ABUTMENT & PIER REPAIRS
- STAGE CONSTRUCTION

DESIGN STRESSES
 (Existing Plans 9/12/69)

PRECAST PRESTRESSED UNITS
 $f_c = 5,000$ psi
 $f_s = 1,000$ psi
 $f_s = 248,000$ psi (Strands)
 $f_s = 173,600$ psi (Strands)

FIELD UNITS
 $f_c = 1000$ psi (Original Abut.)
 $f_c = 1400$ psi (Exist.)
 $f_s = 20,000$ psi
 $v_c = 75$ psi
 $n = 10$

LOADING HS20-44



LOCATION SKETCH

GENERAL PLAN
 U.S. RTE. 67 OVER
 POPE CREEK
 F.A.P. RTE. 310 SECTION (103BR)
 MERCER COUNTY
 STATION 10+545.456
 STRUCTURE NO. 066-0003

BELING CONSULTANTS
 Professional Engineering Since 1936
 William C. Thompson, Jr., Director
 1100 N. Columbus, Okla., Denver, Colo., Chicago, Ill., Dallas, Texas, Fort Worth, Texas, Houston, Texas, Kansas City, Mo., Memphis, Tenn., Miami, Fla., New Orleans, La., Oklahoma City, Okla., Phoenix, Ariz., St. Louis, Mo., Tulsa, Okla., Wichita, Kan.

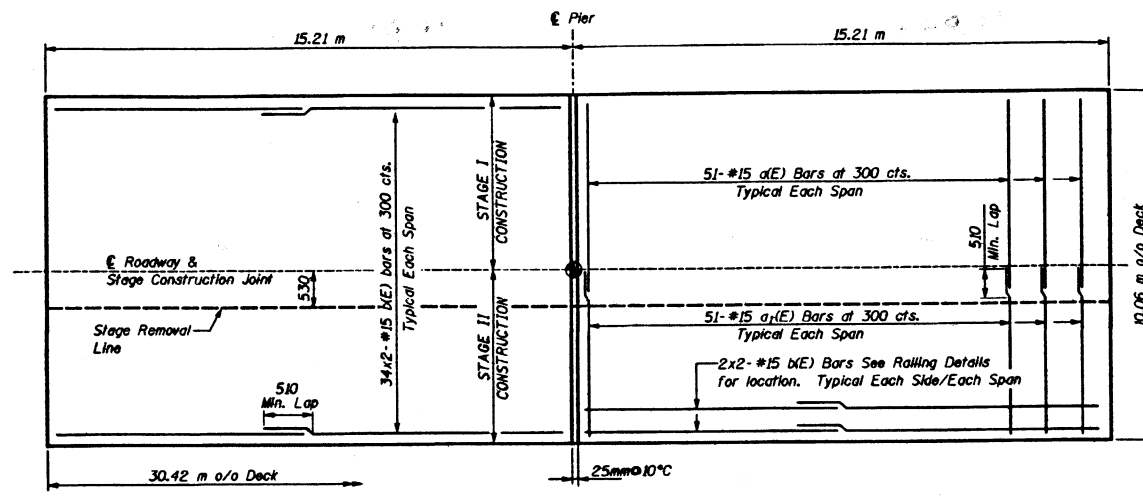
Rev.	Date	Remarks

Designed: J.L.S.
 Drawn: I.M.C.
 Checked: W.C.T.
 Date: 3/10/98

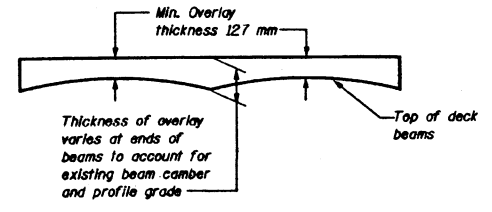
Professional Engineer
 WILLIAM C. THOMPSON, JR.
 081-033865
 MOBILE
 STATE OF ALABAMA

EXPIRES: 11/30/2000

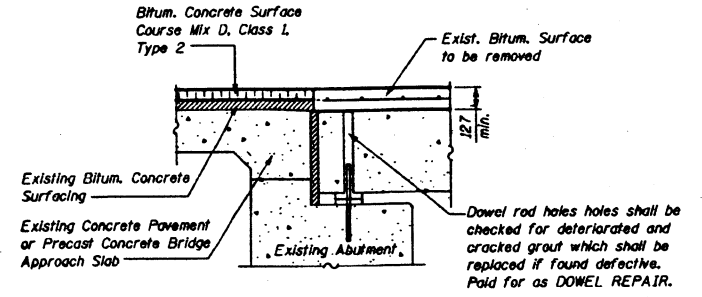
William C. Thompson, Jr.
 Date: 11/16/99



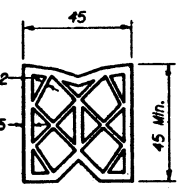
PLAN - CONCRETE WEARING SURFACE



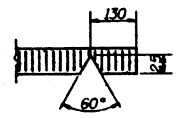
SECTION THRU CONCRETE OVERLAY



PROPOSED SECTION THRU ABUTMENT

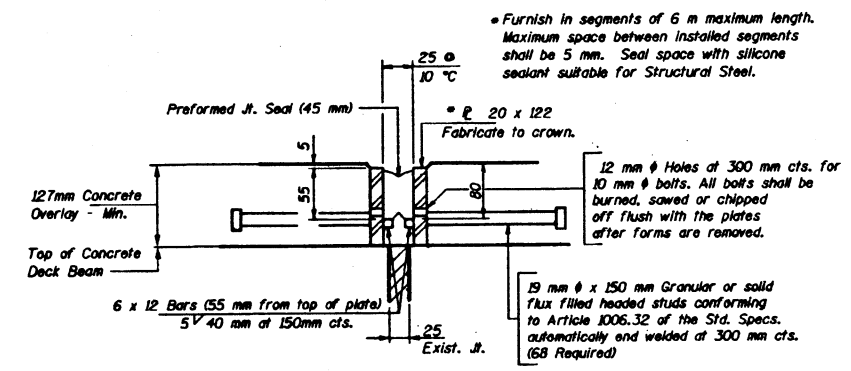


DETAIL "A"



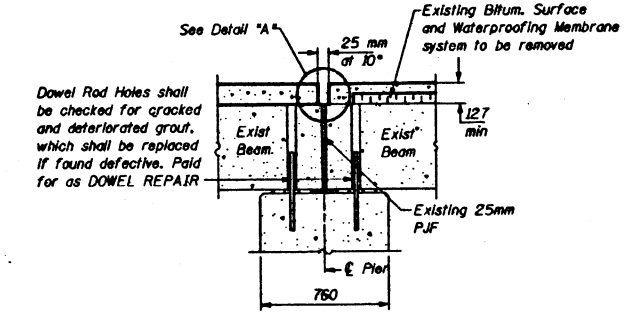
SEAL CUT-OUT

TYPICAL END OF SEAL TREATMENT

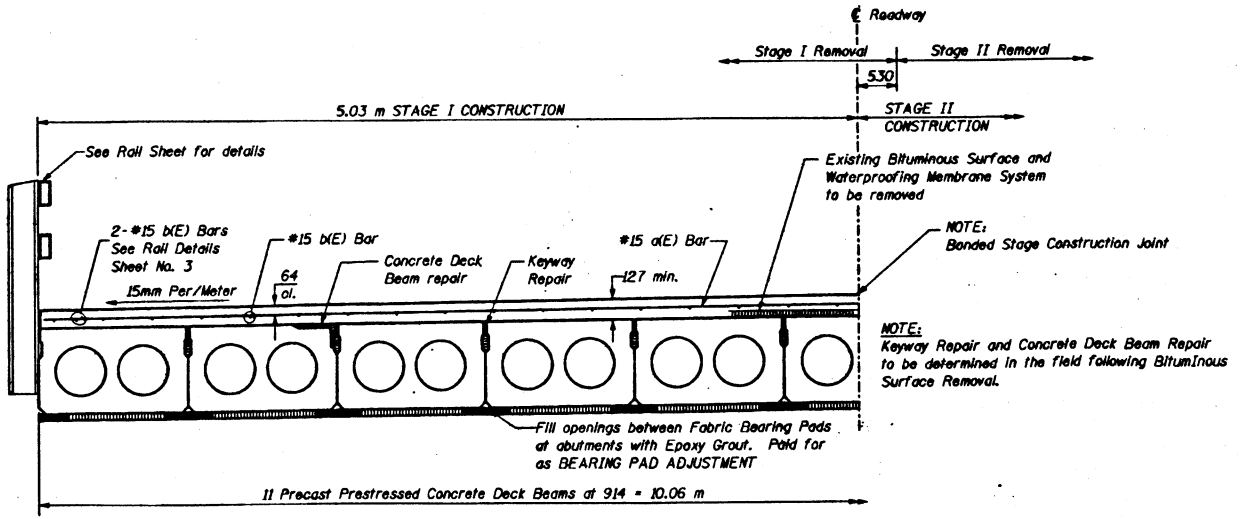


DETAIL A

NOTE:
Steel plates and studs paid for as Structural Steel.



SEC. THRU PIER



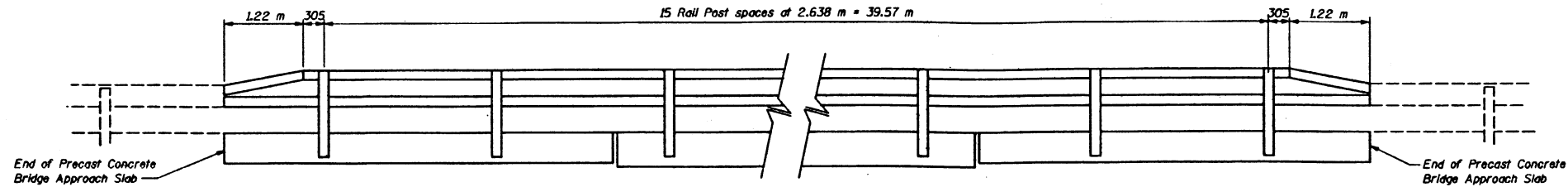
HALF SECTION
LOOKING NORTH

BILL OF MATERIAL - DECK

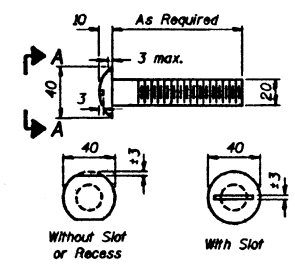
Bar No.	Size	Length (m)	Shape
a(E)	#15	5.65	—
a(E)	#15	4.98	—
b(E)	#15	7.88	—
Concrete Wearing Surface	m ²	306	
Reinforcement Bars - Epoxy Coated	kg	3580	
Bituminous Concrete Surface Removal Complete	m ²	306	
Bearing Pad Adjustment	Ea.	22	
Dowel Repair	Ea.	15	
Keyway Repair	m	51.8	
Preformed Joint Seal - 45 mm	m	10	
Furnishing and Erecting Structural Steel	kg	1060	
Bridge Deck Grooving	m ²	306	

DECK REPAIRS
U.S. RTE. 67 OVER
POPE CREEK
F.A.P. RTE. 310 SECTION (103BR) I
MERCER COUNTY
STATION 10+545.456
STRUCTURE NO. 066-0003

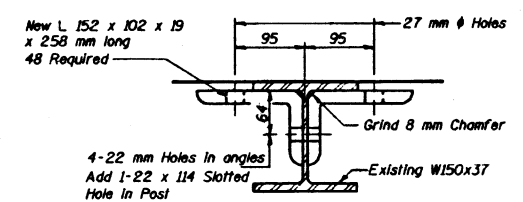
PROJECT NO.	SECTION	PROPERTY	DATE	SHEET NO.
U.S. RTE. 67	(103BR)	MERCER	222	82
F.A.P. 310				6 SHEETS
PROJECT TITLE: (102,103X,103)RS-3,(103BR)				



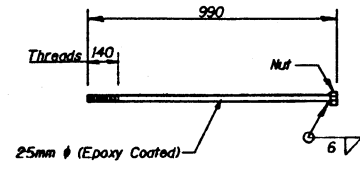
ELEVATION RAIL POST SPACING



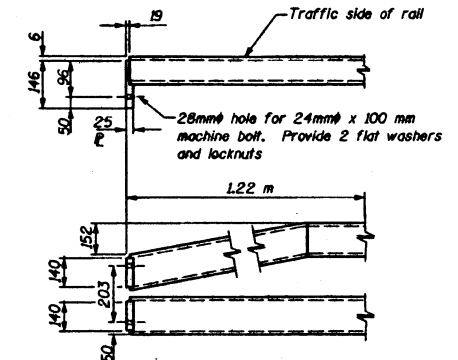
**VIEW A-A
ROUND HEAD BOLT**



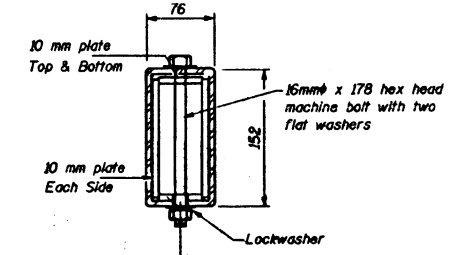
SECTION B-B



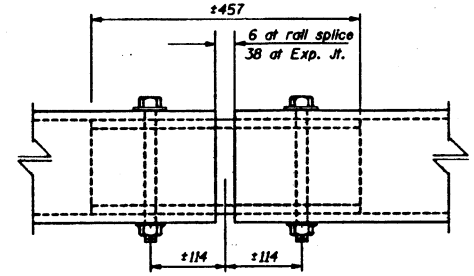
**THREADED ROD
Paid for as Structural Steel**



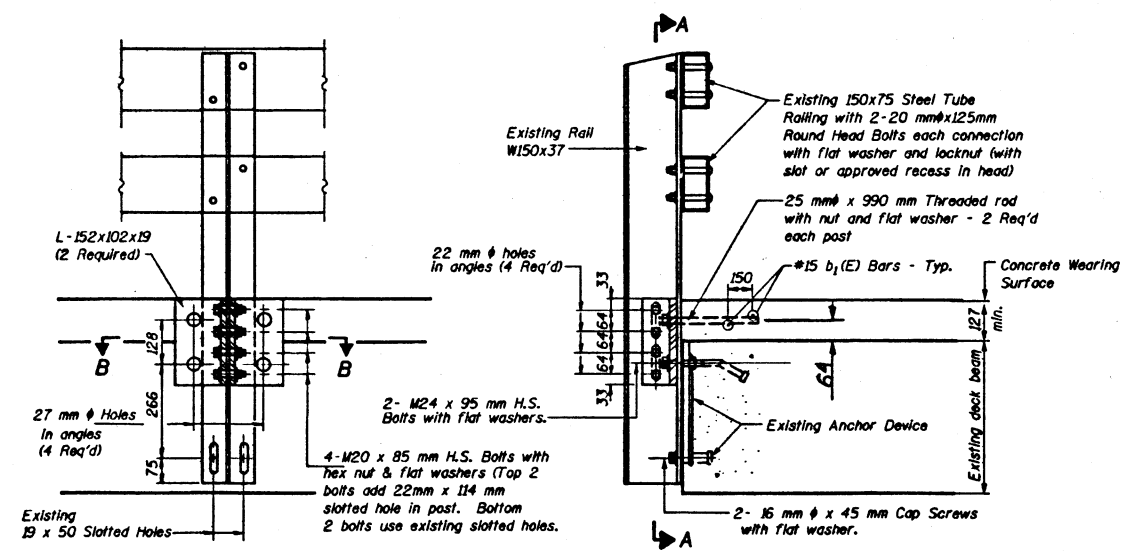
**FOR INFORMATION
END OF RAIL DETAIL**



SECTION D-D



**FOR INFORMATION
EXISTING RAIL SPLICE**



SECTION A-A

SECTION AT RAIL POST

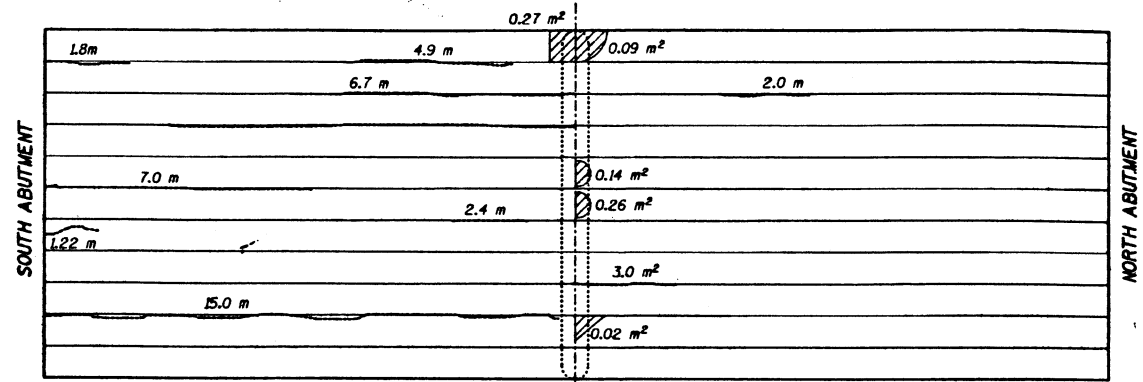
GENERAL NOTES:

- The contractor shall remove the existing 150 mm x 75 mm Galvanized steel tubing, W150x37 galvanized posts, stockpile and re-erect the steel tubing on existing or new galvanized steel posts as determined in the field.
- All steel shapes and plates shall conform to the requirements of AASHTO M-270 Grade 250 except posts and angles shall conform to AASHTO M-270 Grade 345.
- Bolts, cap screws, and nuts shall conform to the requirement of ASTM designation A-307 except for high strength bolts. Nuts and washers noted which shall conform to AASHTO M-164M.
- All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with AASHTO M-232.
- All new angles shall be galvanized after shop fabrication in accordance with AASHTO M-111 and ASTM A-385 galvanized rail shall not be painted.
- All field drilled holes shall be coated with an approved zinc rich paint before erection.
- The lower portion of the post flange in contact with concrete shall receive a 2 coats of asphalt paint conforming to Section 1060.07 Type II or place 3 mm fabric bearing pad between the post and concrete.
- The M20 high strength bolts used to connect the 152x102x19 angles to the post shall be tightened in accordance with Article 505.04(F)(3) of the Standard Specification. The M24 high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/8 turn. The 16mm cap screws in the bottom of posts shall be tightened to a snug fit only.
- Contractor shall provide sufficient shims, H.S. bolts, nuts and flat washers to realign existing railing. Bolt length and cap screw length to be determined in the field when shims are used. Cost of shims to be included in the unit price per meter for REMOVING AND RE-ERECTING EXISTING RAILING.
- REMOVING AND RE-ERECTING EXISTING RAILING includes all removal and re-erecting of existing steel tubing and posts, all bolts, nuts, washers, shim plates, and angles.
- Contractor to provide all new bolts, cap screws and nuts, and washers for the re-erecting of the existing railing.

BILL OF MATERIAL

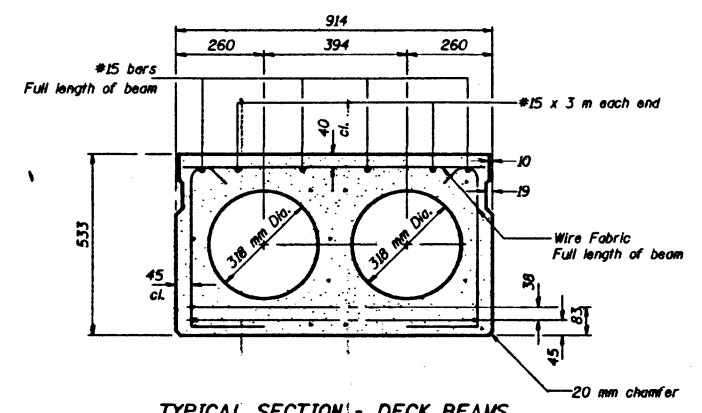
Item	Unit	Quantity
Removing and Re-erecting Existing Railing	m	85

RAILING REPAIRS
 U.S. RTE. 67 OVER
 POPE CREEK
 F.A.P. RTE. 310 SECTION (103BR)
 MERCER COUNTY
 STATION 10+545.456
 STRUCTURE NO. 066-0003



PLAN VIEW - DECK

LEGEND
 Keyway Repair
 Concrete Deck Beam Repair (Bottom of Beam)

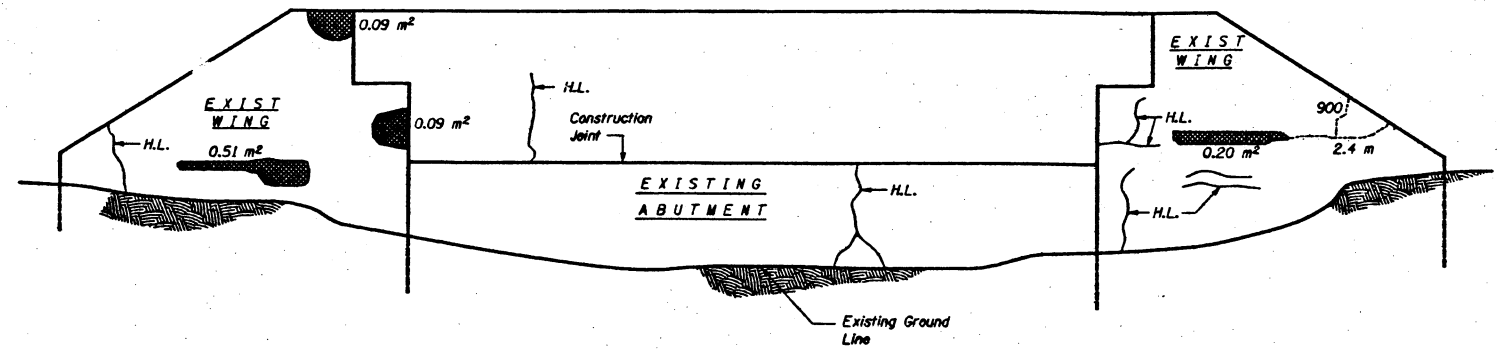


TYPICAL SECTION - DECK BEAMS
FOR INFORMATION

BILL OF MATERIAL

Item	Unit	Quantity
Keyway Repair	meter	51.8
Concrete Deck Beam Repair	m²	0.78
Bearing Pad Adjustment	Each	22
Dowel Repair	Each	15

CONCRETE DECK BEAM REPAIR
 U.S. RTE. 67 OVER
 POPE CREEK
 F.A.P. RTE. 310 SECTION (103BR)I
 MERCER COUNTY
 STATION 10+545.456
 STRUCTURE NO. 066-0003

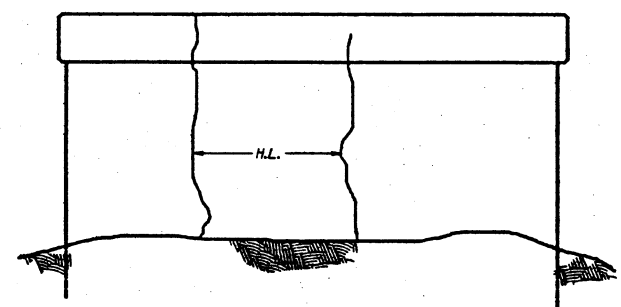
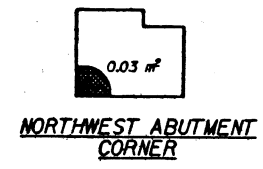


NOTE:
Hairline cracks in wings show leaching
and some minor delamination

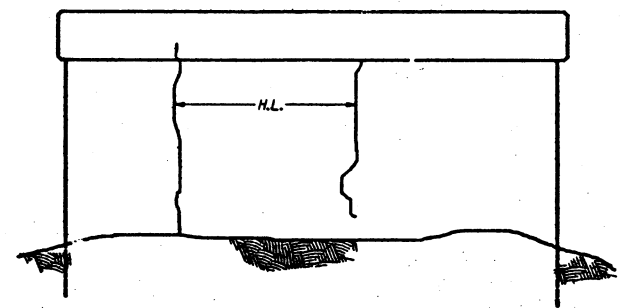
NORTH ABUTMENT
LOOKING NORTH

TABLE OF REPAIR

Location	Epoxy Crack Sealing	Polymer Modified Portland Cement Mortar
So. Abut.	7	0.21
No. Abut.	3.3	1.16
Pier	-	-
Totals	10.3	1.37

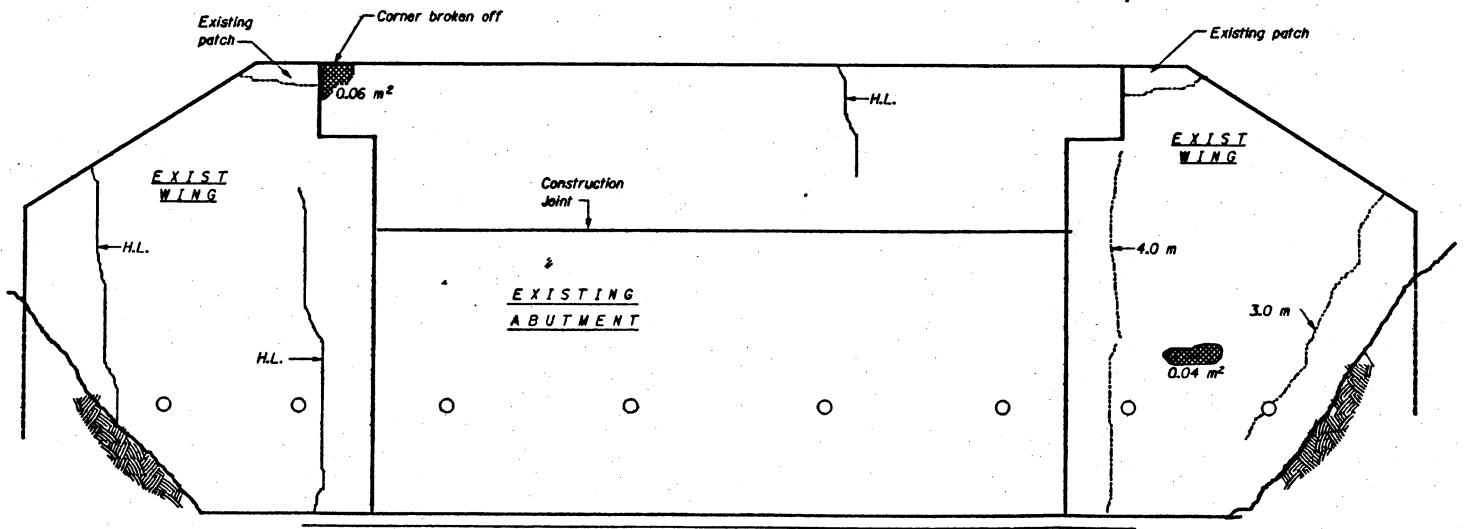


LOOKING SOUTH

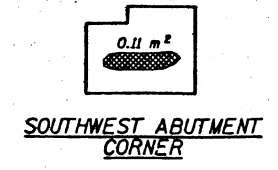


LOOKING NORTH

PIER ELEVATION



SOUTH ABUTMENT
LOOKING SOUTH



BILL OF MATERIAL

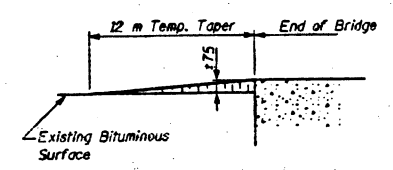
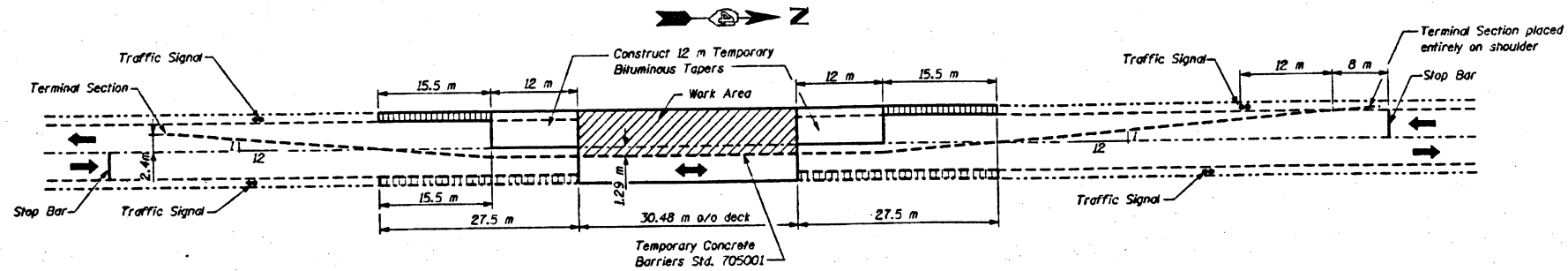
Item	Unit	Quantity
Epoxy Crack Sealing	Meter	10.3
Polymer Modified Portland Cement Mortar	m²	1.26

LEGEND

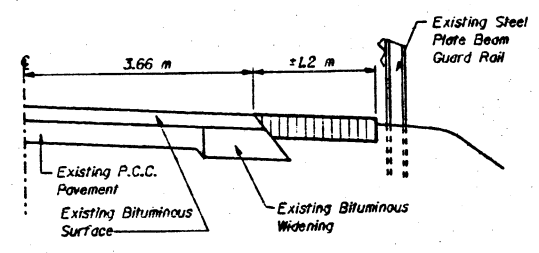
- Polymer Modified Portland Cement Mortar
- Epoxy Crack Sealing
- Hairline Crack - Not to be sealed

ABUTMENT AND PIER REPAIRS
U.S. RTE. 67 OVER
POPE CREEK
F.A.P. RTE. 310 SECTION (103BR1)
MERCER COUNTY
STATION 10+545.456
STRUCTURE NO. 066-0003

PROJECT NO.	DISTRICT	COUNTY	SECTION	SHEET NO.
102.103X.103BR/1	103BR/1	MERCER	222	85
SHEET NO. 6				
6 SHEETS				



TEMPORARY BITUMINOUS TAPER



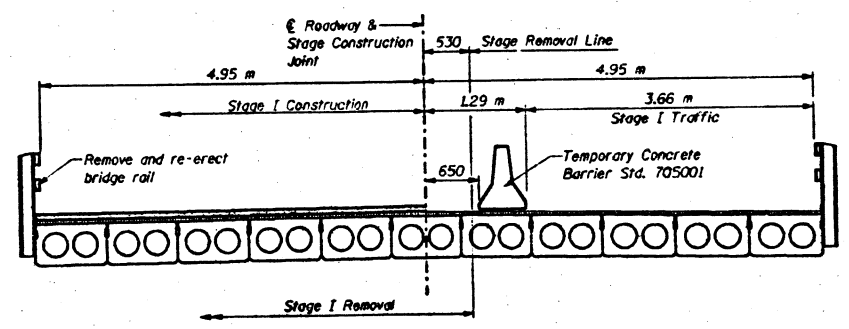
BITUMINOUS CONCRETE BASE COURSE WIDENING

GENERAL NOTES:

Contractor to install a "TO ACTUATE SIGNAL" sign for the traffic signal loops. This work will be included in the cost of TRAFFIC CONTROL AND PROTECTION STANDARD 70132L.

STAGE I CONSTRUCTION

1. Construct Bituminous Base Course Widening on East side using Standard 701326.
2. Install Standard 701321 at location shown. Place barriers in Stage I alignment. Use Standard 701301 for traffic control.
3. Move traffic to Stage I Traffic Lanes.
4. Complete Stage I repairs.
5. Place Temporary Bituminous Tapers each end and Bituminous Base Course Widening on west side.

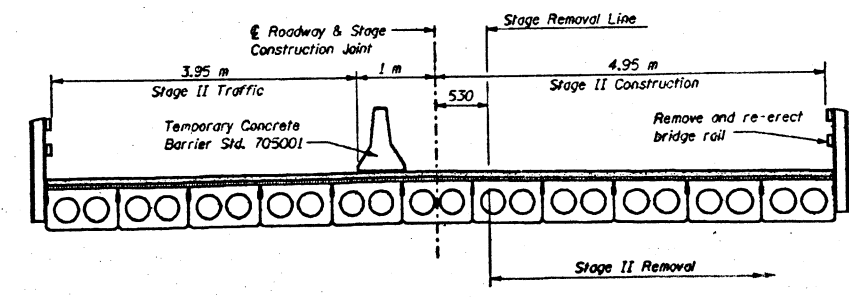
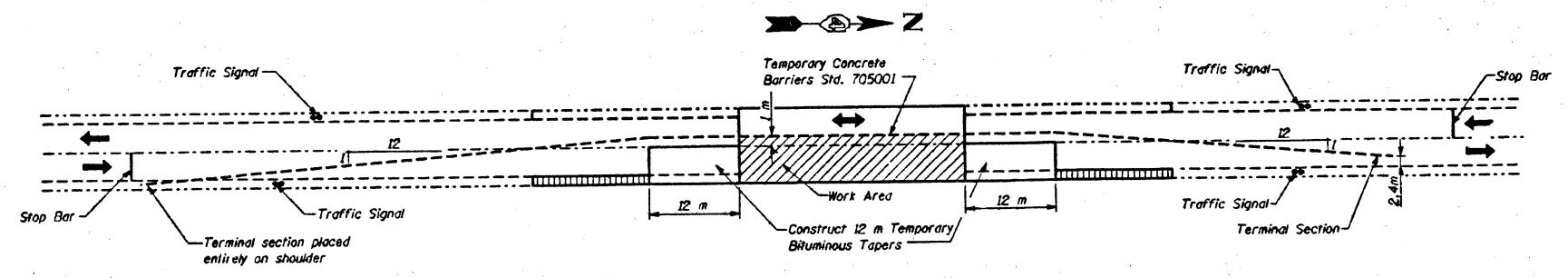


SECTION THRU STRUCTURE
LOOKING NORTH

STAGE I

STAGE II CONSTRUCTION

1. Relocate barriers to Standard 701321 Stage II. Use Standard 701301 for traffic control.
2. Move traffic to Stage II traffic lanes
3. Complete Stage II repairs.
4. Place Temporary Bituminous Tapers each end.
5. Remove Standard 701321 use Standard 701301 for traffic control



SECTION THRU STRUCTURE
LOOKING NORTH

STAGE II

STAGE CONSTRUCTION
U.S. RTE. 67 OVER
POPE CREEK
F.A.P. RTE. 310 SECTION (103BR/1)
MERCER COUNTY
STATION 10+545.456
STRUCTURE NO. 066-0003

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
 STATE BOND ISSUE HIGHWAY**

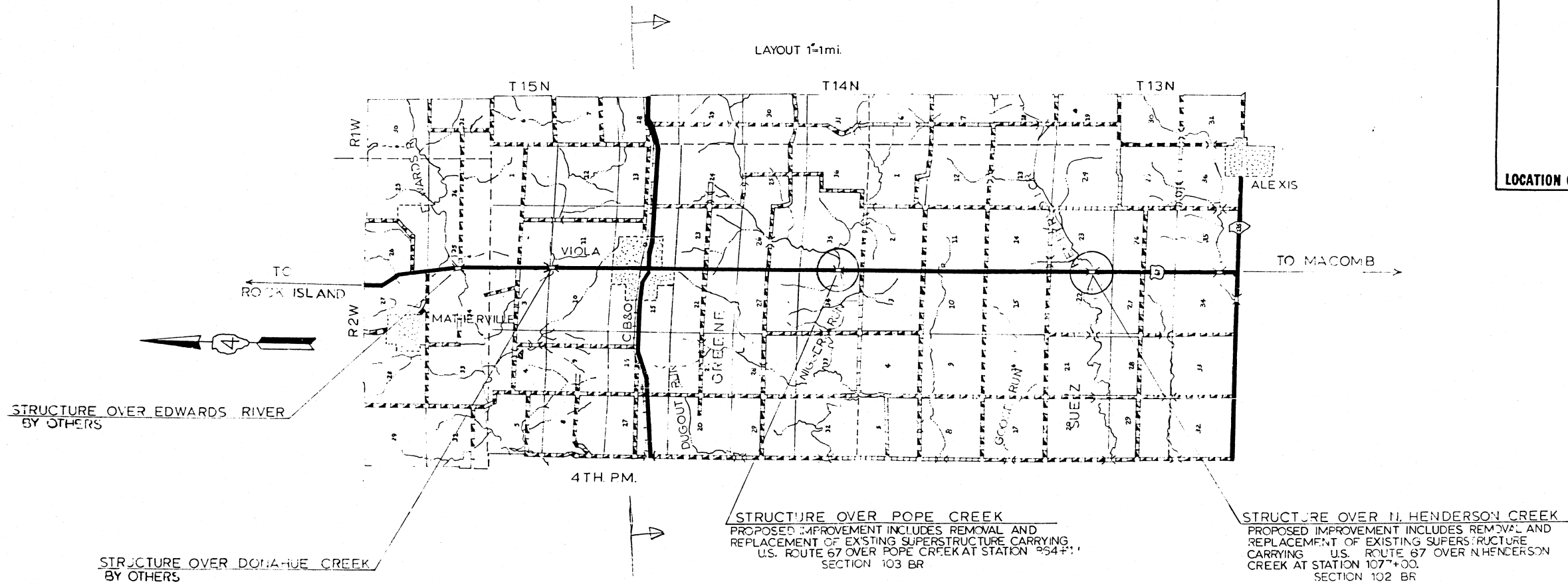
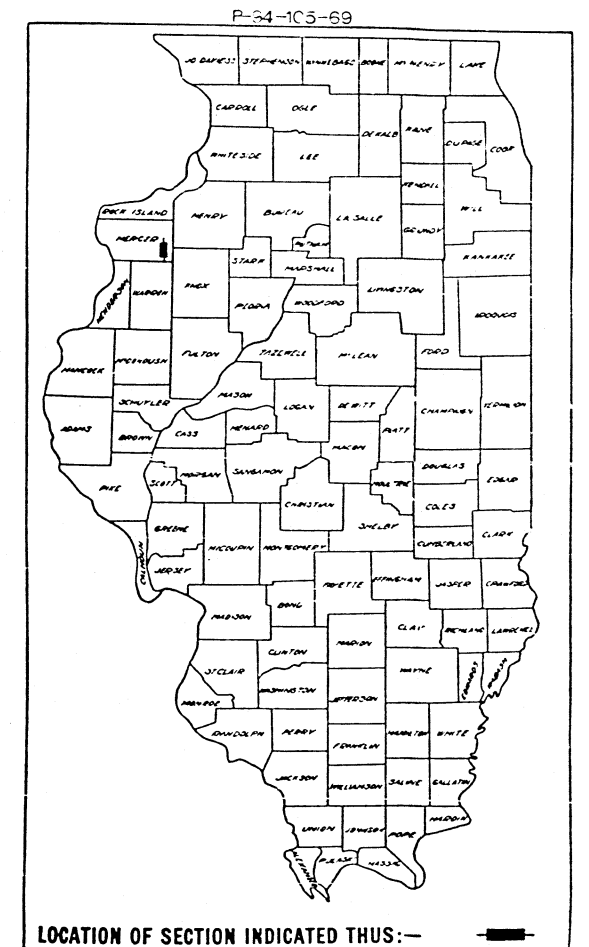
SET 1 OF 2 SETS

BOND ISSUE ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
85	102 BR 103 BR	MERCER	31	1
FED. ROAD DIST. NO. 1 ILLINOIS PROJECT				

SCALES
 PLAN 1 INCH = 100 FT.
 PROFILE, HOR. 1 INCH = 100 FT.
 PROFILE, VERT. 1 INCH = 10 FT.
 CROSS-SECTIONS 1 INCH = 5 FT.

SBI ROUTE 85
 SECTIONS 102 BR & 103 BR
 MERCER COUNTY

INDEX: SEE SHEET NO. 2



LENGTH OF IMPROVEMENT
 SECTION 102 BR 440.00ft = 0.083mi
 SECTION 103 BR 440.00ft = 0.083mi

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF HIGHWAYS

SUBMITTED: 9-18-69
 EXAMINED: 9-16-69
 PASSED: 9-16-69
 APPROVED: 9-16-69
 APPROVED: 9-16-69

Reel 4-91
 Sec: 103 BR
 STA: 864+11.10

066-0003

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
			102 BR	103 BR	
	CONSTRUCTION TYPE CODE				
			XO20	XO30	XO50
202001	EARTH EXCAVATION	CU YD	13,027	8,875	4,152
202007	GRADING EXISTING SHOULDERS	UNIT	8.0	4.0	4.0
204001	BORROW EXCAVATION	CU YD	15,623	10,642	4,981
301001	AGGREGATE BASE COURSE TYPE A	TON	1,114	557	557
405003	BITUMINOUS MIXTURE COMPLETE	TON	446	223	223
406005	LEVELING BINDER (MACHINE METHOD)	TON	20	20	-
406007	BITUMINOUS CONCRETE BINDER COURSE	TON	148	74	74
406008	BITUMINOUS CONCRETE SURFACE COURSE, CLASS I	TON	138	69	69
408005	PORITLAND CEMENT CONCRETE PAVEMENT 10"	SQ YD	68	34	34
408013	PAVEMENT FABRIC	SQ YD	68	34	34
501015	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	2	1	1
501022	CONCRETE REMOVAL	CU YD	30.0	15.0	15.0
501026	EXPANSION BOLTS 3/4 INCH	EACH	104	52	52
504003	CLASS X CONCRETE	CU YD	148.6	74.3	74.3
505001	PRECAST CONCRETE BRIDGE SLAB	SQ FT	598	299	299
505005	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	6,584	3,292	3,292
508008	STEEL RAILING, TYPE N	LIN FT	560	280	280
512001	REINFORCEMENT BARS	POUND	16,380	8,190	8,190
513009	FURNISHING METAL PILE SHELLS 12"	LIN FT	960	480	480
513025	DRIVING AND FILLING SHELLS	LIN FT	960	480	480
513031	TEST PILE METAL SHELLS	EACH	2	1	1
620026	PAVEMENT REMOVAL AND P.C.C. REPLACEMENT, TYPE II, 10 INCH	SQ YD	15	8	8
628001	STEEL PLATE BEAM GUARD RAIL, SINGLE RAIL	LIN FT	800	400	400
633003	STEEL PLATE BEAM GUARD RAIL REMOVAL	LIN FT	300	150	150
X03999	SALVAGED AGGREGATE	UNIT	12	6	6
636007	STOCK-PILING SALVAGED AGGREGATE	CU YD	282	141	141
638004	TEMPORARY BRIDGE COMPLETE (STA. 1077+00) (NO. 3)	EACH	1	1	1
X63801	TEMPORARY BRIDGE COMPLETE (STA. 864+110) (NO. 4)	EACH	1	1	1
XZ1068	TEMPORARY PAVEMENT MARKING INTERMITTENT	STATION	22	11	11
XZ1086	BASE COURSE WIDENING, TYPE I	UNIT	4.8	1.6	3.2
XZ1101	TRAFFIC CONTROL AND PROTECTION, STANDARD 2310	L SUM	2	1	1
Z10178	COAL-TAR INTERLAYER PROTECTIVE COAT	SQ YD	730	365	365

INDEX

SHEET NO.	TITLE	SHEET NO.
1	COVER SHEET	
2	INDEX, SUMMARY OF QUANTITIES, QUANTITIES NOT OTHERWISE SHOWN	
SECTION 102 BRIDGE PLANS		
3	PLAN AND PROFILE SHEET	
4	GENERAL PLAN AND ELEVATION	1
5	PIER BENT	2
6	NORTH AND SOUTH ABUTMENTS	3
7	SUPERSTRUCTURE DETAILS	4
8	APPROACH DETAILS	5
9	TYPE N STEEL RAILING	6
10-12	X-SECTIONS DETOUR ROAD	
SECTION 103 BRIDGE PLANS		
13	PLAN AND PROFILE SHEET	
14	GENERAL PLAN AND ELEVATION	1
15	PIER BENT	2
16	NORTH AND SOUTH ABUTMENTS	3
17	SUPERSTRUCTURE DETAILS	4
18	APPROACH DETAILS	5
19	TYPE N STEEL RAILING	6
20-21	X-SECTIONS DETOUR ROAD	
22	PAVEMENT STRUCTURE AND TYPICAL SECTIONS SECTION 102 BR & 103 BR	
STANDARDS		
23	1686-3 SYMBOLS AND ABBREVIATIONS	
24	2115-3 PAVEMENT FABRIC, TYPE A AND TYPE B	
25	DELETED	
26	2230-3 STEEL PLATE BEAM GUARDRAIL	
27	2231-3 TYPICAL APPLICATIONS OF STEEL PLATE BEAM GUARDRAIL	
28	2298-1 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR HIGHWAY CONSTRUCTION AND MAINTENANCE	
29	2299-1 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR HIGHWAY CONSTRUCTION AND MAINTENANCE	
30	2300 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR HIGHWAY CONSTRUCTION AND MAINTENANCE	
31	2310-1 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR HIGHWAY CONSTRUCTION AND MAINTENANCE	

Above Standards are included after Set No. 2

DETOUR QUANTITIES	102BR	103BR
AGGREGATE BASE COURSE TYPE A 1222 SQ YDS X 8" THICK X 2.05/36 = 557 TONS	557 TONS	557 TONS
BITUMINOUS MIXTURE COMPLETE (PRIME COST 0.3 GALLON PER SQ YD TO BE USED) 1222 SQ YDS X 2" X 112/2000 = 137 TONS	137 TONS	137 TONS
40% OF AGGREGATE BASE COURSE TYPE A TO BE SALVAGED = 223 TONS	223 TONS	223 TONS
SALVAGED AGGREGATE (TO BE USED AS AGGREGATE SHOULDER TYPE B) LENGTH 600' 54 TONS TO BE USED FOR BOTH SIDES 6 UNITS	6 UNITS	6 UNITS
STOCK-PILING SALVAGED AGGREGATE (223 TONS - 54 TONS) X 2000/2400 = 141 CU. YDS.	141 CU YDS	141 CU YDS

QUANTITIES NOT OTHERWISE SHOWN

LEVELING BINDER (MACHINE METHOD)
BITUMINOUS CONCRETE BINDER COURSE
BITUMINOUS CONCRETE SURFACE COURSE, CLASS I

BRIDGE OVERLAY		APPROACH OVERLAY		SUB TOTAL		TOTAL
102 BR	103 BR	102 BR	103 BR	102 BR	103 BR	
		20		20		20
21	21	53	53	74	74	148
21	21	48	48	69	69	138

GRADING EXISTING SHOULDERS

SEC	END	LT&RT	UNITS
SEC 102 BR	NORTH END	LT&RT	2.0
	SOUTH END	LT&RT	2.0
			4.0

SEC	END	LT&RT	UNITS
SEC 103 BR	NORTH END	LT&RT	2.0
	SOUTH END	LT&RT	2.0
			4.0
		TOTAL	8.0 UNITS

SEC	END	LT&RT	UNITS
SEC 102 BR	100 EACH CORNER	LIN.FT	400'
SEC 103 BR	100 EACH CORNER	LIN.FT	400'
		TOTAL	800' LIN.FT.

SECTION	STATIONS
TEMPORARY PAVEMENT MARKING INTERMITTENT	
SECTION 102 BR	4.5 STATIONS
SECTION 103 BR	4.5 STATIONS
	9.0 STATIONS MAINLINE
SECTION 102 BR	6.5 STATIONS
SECTION 103 BR	6.5 STATIONS
	13.0 STATIONS DETOUR
TOTAL	22.0 STATIONS

AGGREGATE SHOULDERS, TYPE B

SEC	END	LT&RT	UNITS
SEC 102 BR	NORTH END	LT&RT	30
	SOUTH END	LT&RT	30
			60

SEC	END	LT&RT	UNITS
SEC 103 BR	NORTH END	LT&RT	30
	SOUTH END	LT&RT	30
			60
TOTAL			120 UNITS

(USE SALVAGED AGGREGATE)

SEC 103 BR BASE COURSE WIDENING, TYPE I

SEC	END	LT&RT	UNITS
SEC 103 BR	NORTH END	LT&RT	16 UNITS *
	SOUTH END	LT&RT	16 UNITS *
		TOTAL	32 UNITS *

SEC	END	LT&RT	UNITS
SEC 102 BR	NORTH END	LT&RT	16 UNITS *
	SOUTH END	LT&RT	16 UNITS *
		TOTAL	32 UNITS *

* 100 LIN FT (ONE SIDE) = 1 UNIT

SUBMITTED Sept. 9, 1969

EXAMINED Aug. 28, 1969

EXAMINED August 15, 1969

EXAMINED 9/10/69

DATE 9-12-69

Built as Section 103 C-1, S.B.I. Rt. 85 1931

Existing Structure:
 Closed Reinforced Conc. Abutments to remain in place and 100' span steel truss (21'-0" Roadway) Superstructure to be removed.

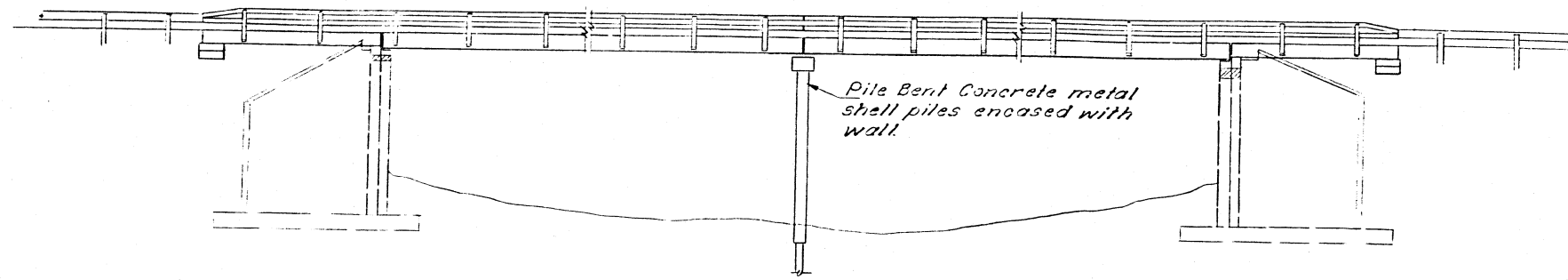
STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS
 DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
S.B.I. 85	102BR 103BR	MERCER	31	14	6 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.

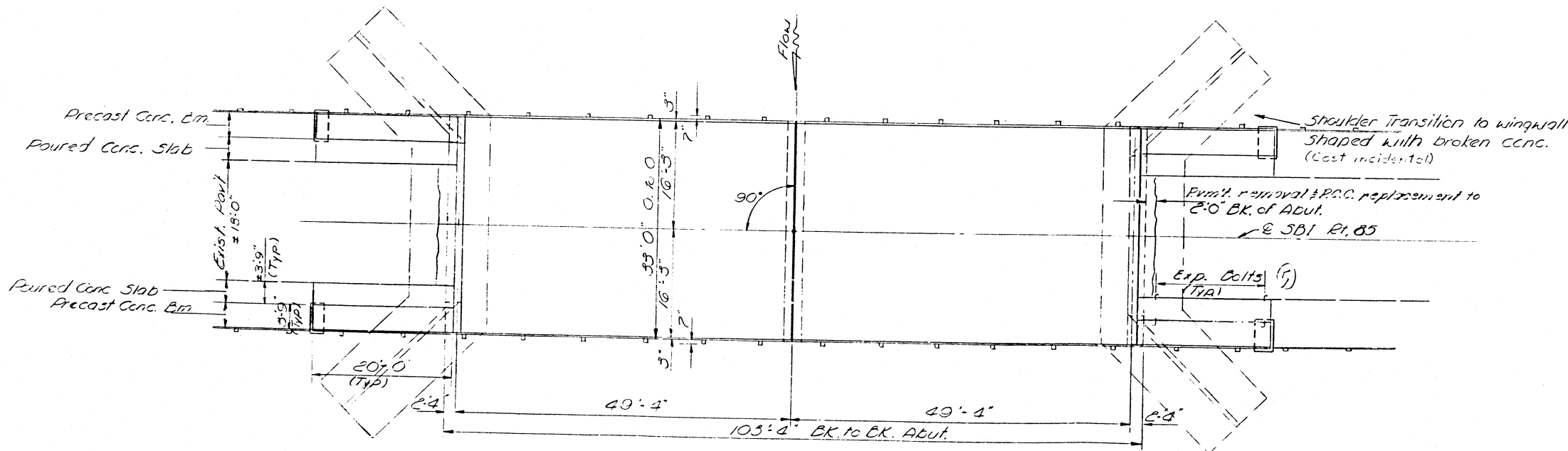
It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.
 An alternate strand pattern using Extra High Strength Prestressing strand (270 K.S.I.) is permitted.
 The Contractor shall drive one Metal Shell test pile in a permanent location at the pier bent as directed by the Engineer before ordering the remainder of piles. Reference Grade Line is profile of exist. roadway along S.B.I. Rt. 85 (Top of P.C.C. Pavement)



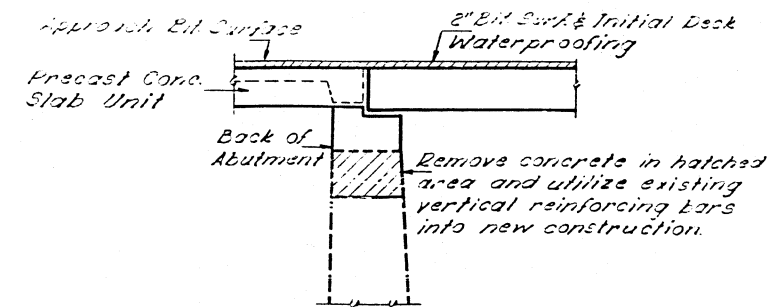
ELEVATION

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Portland Cement Conc. P.V.T	Sq. Yds	34		34
Pavement Fabric	Sq. Yds	34		34
Removal of Existing Superstructure	Ea.			1
Concrete Removal	Cu. Yds.		15.0	15.0
Expansion Bolts (3/4" dia)	Ea.	52		52
Class X Concrete	Cu. Yds.		74.2	74.2
Precast Concrete Bridge Slab	Sq. Ft.	299		299
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	3392		3392
Steel Railing, Type N	Lin. Ft.	230		230
Reinforcement Bars	Lbs.		8190	8190
Metal Shell Piles (12" dia)	Lin. Ft.		480	480
Test Piles Metal Shell (12" dia)	Ea.		1	1
Perm. Remit. & P.C.C. Replmt. Type II (10")	Sq. Yds		8	8
Coal Tar Interlayer Protective Coat	Sq. Yds		365	365



PLAN



SECTION THRU NEW ABUTMENT GAP

DESIGNED	J. McConick
CHECKED	A. A. Hummel
DRAWN	J. K.
CHECKED	A. A. Hummel

EXAMINED
 PASSED
 APPROVED
 ENGINEER OF DESIGN
 CHIEF HIGHWAY ENGINEER

PRECAST PRESTRESSED UNITS

$f_c = 5000$
 $f_{ci} = 4000$
 $f_s = 248,000$ (strands)
 $f_{si} = 173,600$ (strands)

FIELD UNITS

$f_c = 1000$ psi Abut. (Existing)
 $f_c = 1400$ psi (New)
 $f_s = 20000$ psi
 $v_c = 75$ psi
 $n = 10$

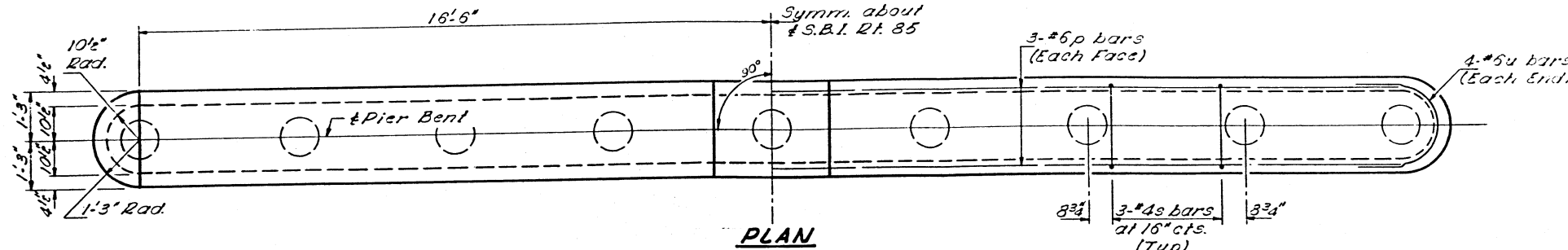
LOADING HS 20-44

GENERAL PLAN & ELEVATION
S.B.I. RT. 85 OVER POPE CR.
S.B.I. RT. 85 SEC 103 BR.
MERCER COUNTY
STATION 864 + 11.10

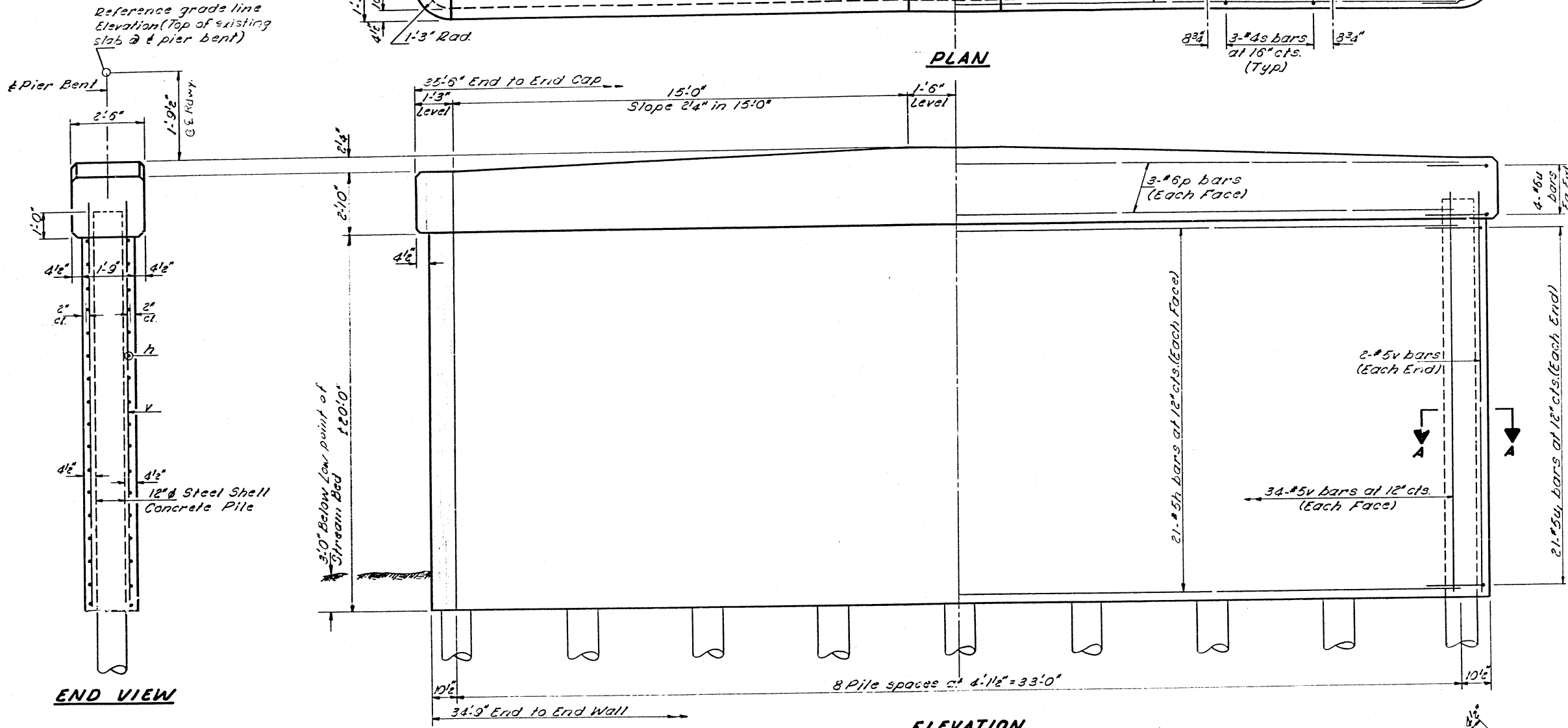
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PILE DATA

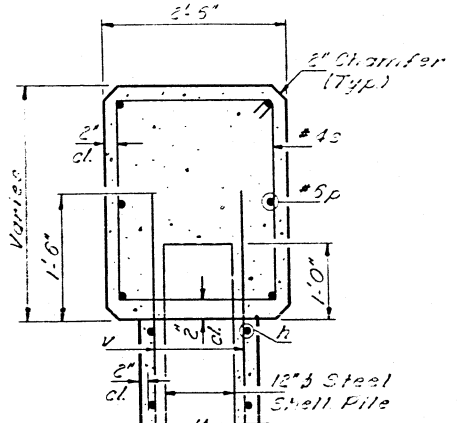
Type: 12" Steel Shell cast in place Concrete Pile
Capacity: 38 Tons
Est. Lgth: 60'
No. Req'd: 8 plus 1 test pile in a permanent location.



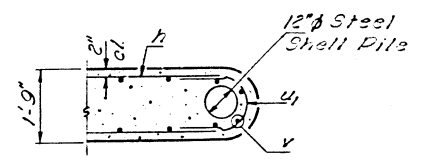
PLAN



ELEVATION



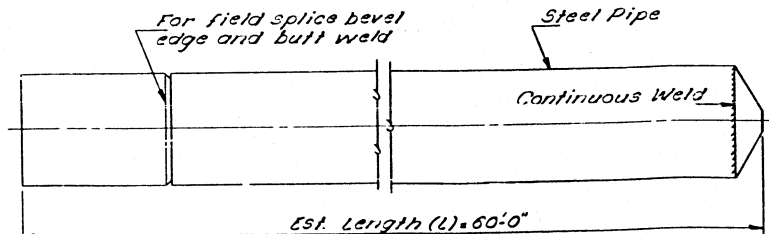
TYP. SECTION THRU CAP



SECTION A-A

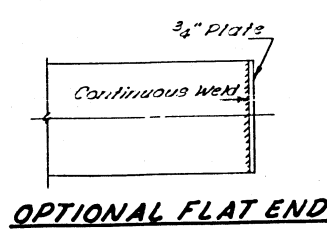
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	42	#5	33'-0"	—
p	5	#6	33'-0"	—
s	24	#4	10'-1"	□
u	8	#6	6'-9"	U
u ₁	42	#5	4'-9"	U
v	72	#5	21'-3"	—
Class X Concrete			Cu. Yds.	48.5
Reinforcement Bars			Lbs.	3790
Metal Shell Piles (12")			Lin. Ft.	480
Test Piles (Met. Shell 12")			Each	1

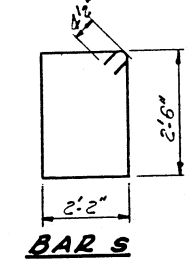


Note: Driving and bearing ends of pipe shall be cut square.
The thickness of the shell shall be .1793 inches with a tolerance of 5%.

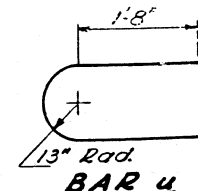
DETAIL OF CYLINDRICAL STEEL SHELL FOR CAST IN PLACE CONCRETE PILES



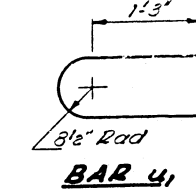
OPTIONAL FLAT END



BAR S



BAR u



BAR u₁

DESIGNED	<i>[Signature]</i>
CHECKED	<i>[Signature]</i>
DRAWN	J. Kessler
CHECKED	<i>[Signature]</i>

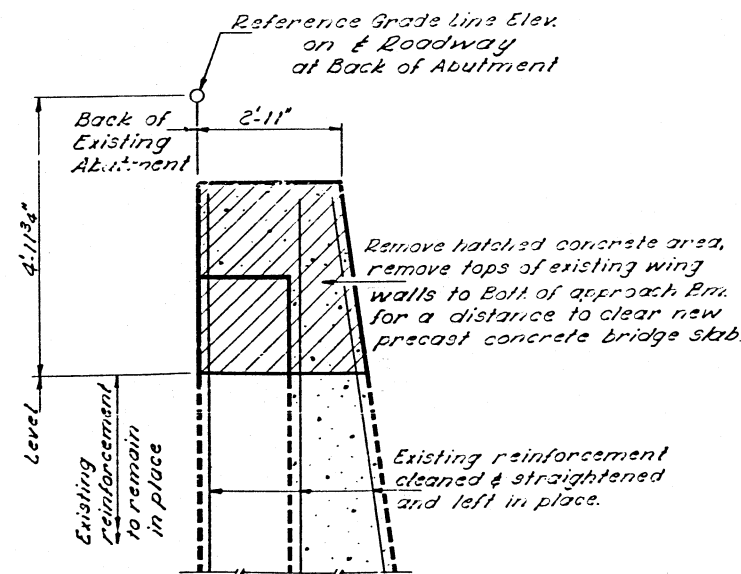
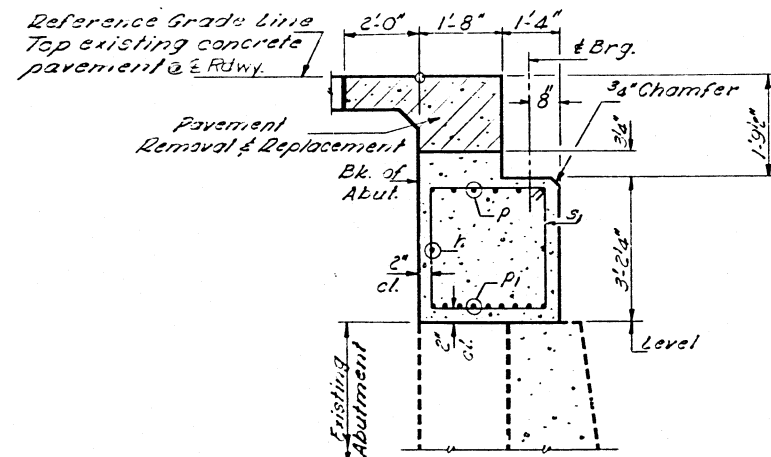
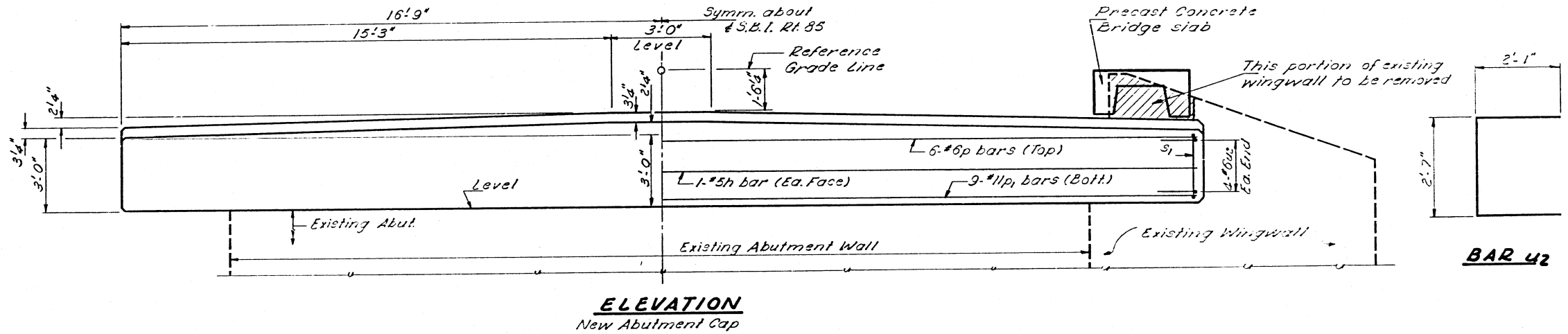
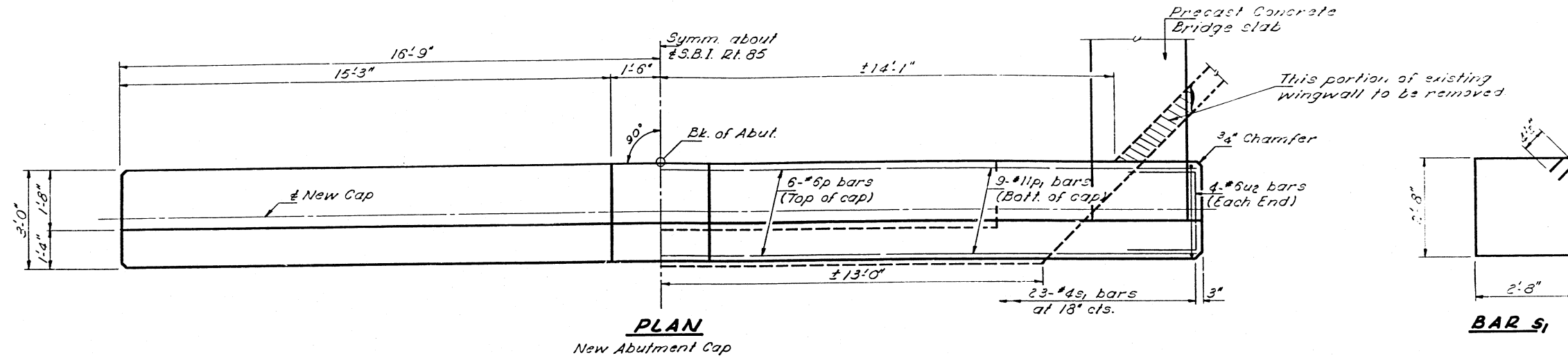
EXAMINED	<i>[Signature]</i>
PASSED	
APPROVED	

PIER BENT
S.B.L. RT. 85 SEC. 103 BR
MERCER COUNTY
STATION 864+11.10

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
85	102 BR 103 BR	MERCER	31	16
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 3
6 SHEETS



**TWO ABUTMENTS
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h	4	#5	33'-0"	—
p	12	#5	33'-0"	—
p1	18	#11	33'-0"	—
s1	46	#4	11'-5"	□
s2	15	#5	6'-9"	—
Class X Concrete			Cu. Yds.	24.2
Reinforcement Bars			Lbs.	4400
Concrete Removal			Cu. Yds.	15.0

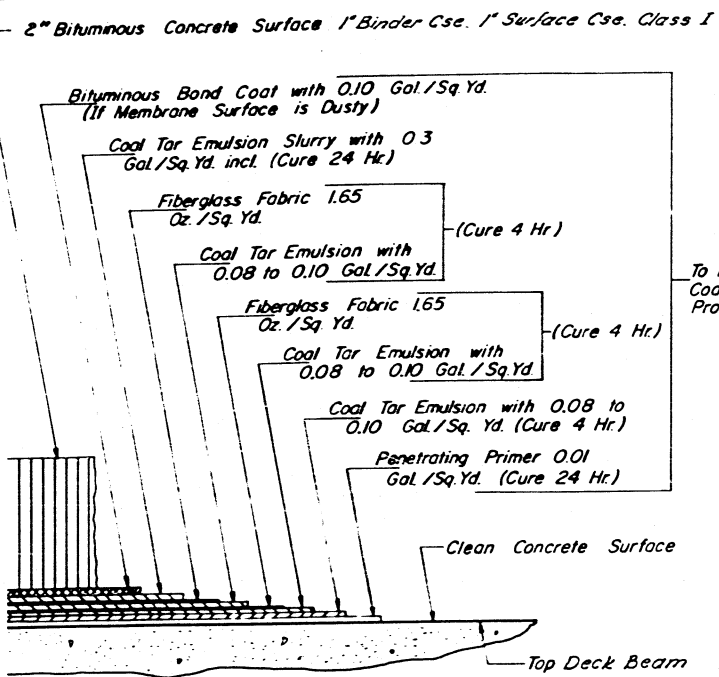
DESIGNED *W. J. Kessler*
CHECKED *A. A. Hummel*
DRAWN *J. Kessler*
CHECKED *A. A. Hummel*

EXAMINED *Carl E. Thurman*
PASSED
APPROVED
CHIEF HIGHWAY ENGINEER

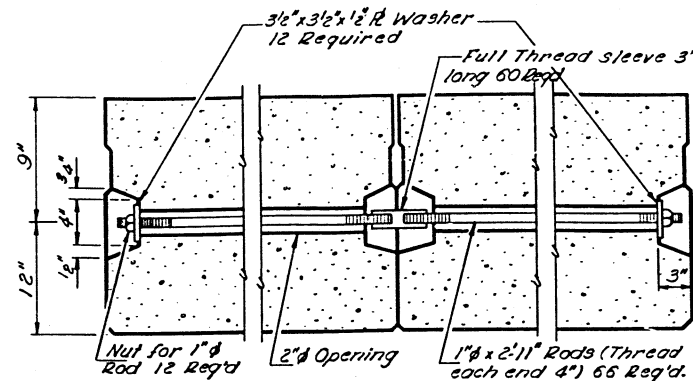
**ABUTMENTS
S.B.I. RT. 85 SEC. 103 BR
MERCER COUNTY
STATION 864+11.10**

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

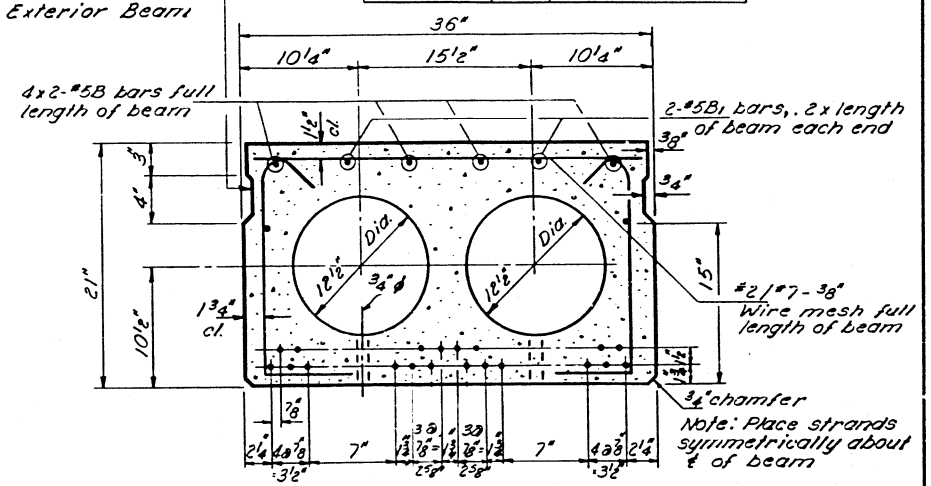
Eliminate notch on Exterior face of Exterior Beam



DETAIL OF DECK SURFACING

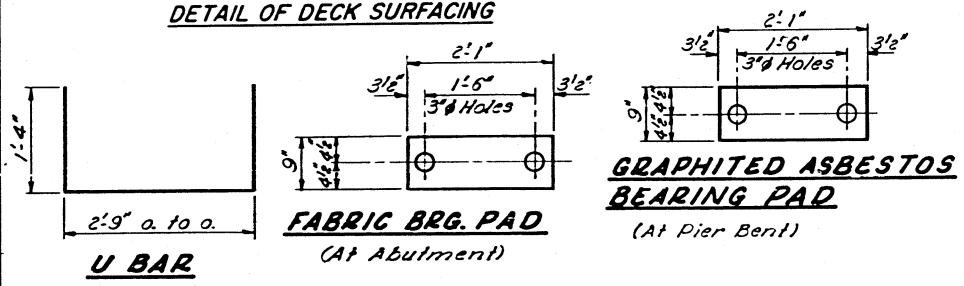


TYPICAL TRANSVERSE TIE ASSEMBLY



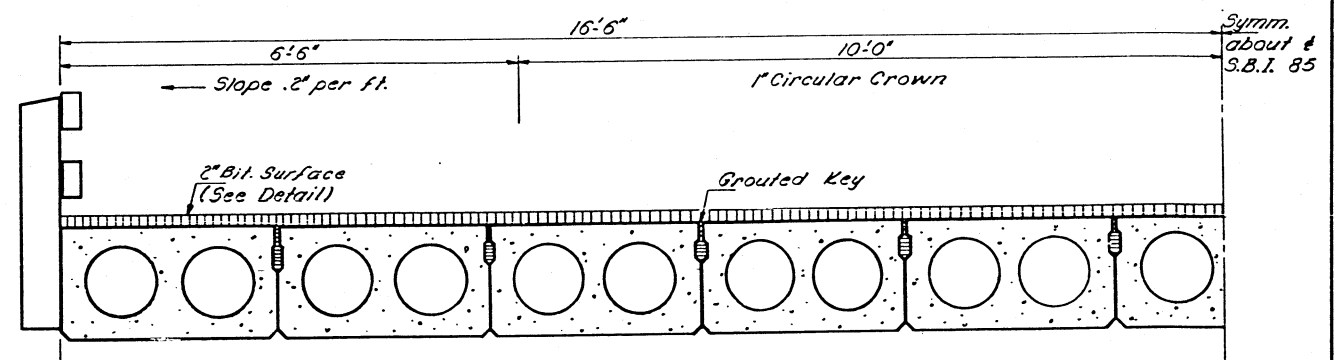
TYPICAL SECTION

7/16" dia strands each strand stressed to 18,900 lbs.
12 strands 1 3/4" up 8 strands 3/4" up 2 strands 1 5/8" up

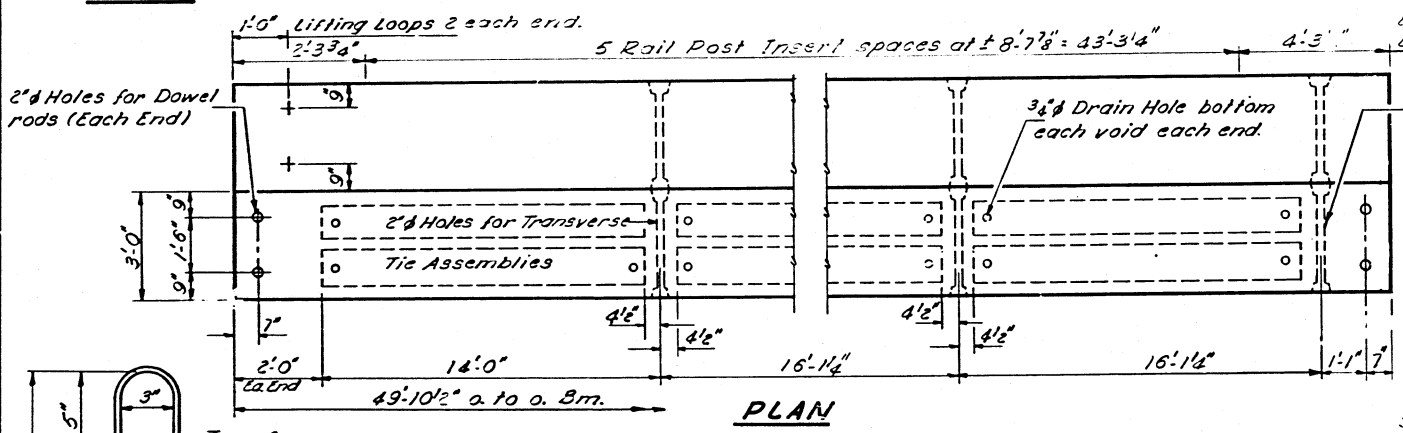


FABRIC BRG. PAD (At Abutment)
GRAPHITED ASBESTOS BEARING PAD (At Pier Bent)

Note:
For Handrail Details see sheet #6.
For Rail Post Insert Det. see sheet #5. (Exterior Units only)



HALF CROSS SECTION



PLAN

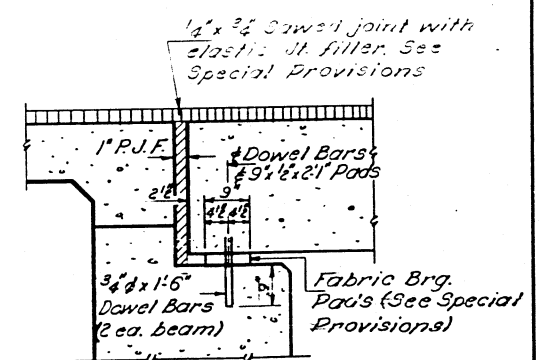
Exterior Face of Exterior Beam only.

2" dia Holes for Transverse Tie Assemblies at Pier Bent only

3/4" dia Drain Hole bottom each void each end.

2" dia x 1'6" Dowel Bars (E. ca. Bm)

SECTION THRU PIER BENT



SEC. THRU ABUTMENT

GENERAL NOTES

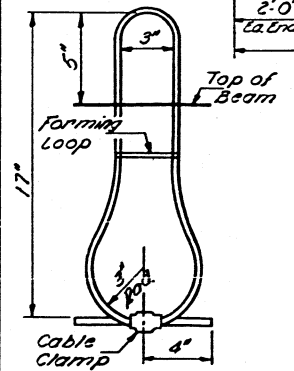
Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand. The nominal diameter shall be 7/16" and the nominal cross sectional area shall be 0.09 sq. in.
Lifting loops shall be 5/8" dia, 6x19 class wire rope with fibre core and shall have a minimum ultimate tensile strength of 29,000 lbs.
The 1" dia rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside beam shall be filled with grout after transverse tie assembly is in place.
Longitudinal shear keys shall be packed with a very dry mix of 2:1 sand & RC Mortar. After beams have been erected, holes for the dowel anchors shall be drilled into the substructure and the anchor dowels shall be grouted in place at abutment, at pier grout dowels into cap and fill holes in beams with mastic.
Steel for dowel rods, transverse tie rods, shall be S.W. 105.
Steel for dowel rods, transverse tie rods, or intermediate grade A.S.T.M. A153 structural steel A.S.T.M. Designation: A36, or intermediate grade A.S.T.M. A153.
After fabrication the transverse tie assemblies (tie rods, nuts, washers & sleeves) shall be hot-dipped galvanized in accordance with A.S.T.M. Designation: A153.
Cost of reinforcement and accessories cast into the beam, of bearing pads, and of grouting longitudinal shear keys is included in unit price bid for "Precast Prestressed Concrete Deck Beams."

BILL OF MATERIAL *

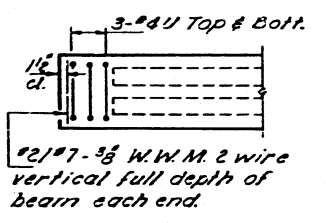
Bar	No.	Size	Length	Shape
B	8	#5	25'6"	—
B1	4	#5	10'0"	—
U	12	#4	5'5"	U
Precast Prestressed Concrete Deck Beams			34 Ft.	3292

*For one beam only

SUPERSTRUCTURE DETAILS
S.B.I. RT. 85 SEC. 103 BR
MERCER COUNTY
STATION 864+11.10



LIFTING LOOP DET.

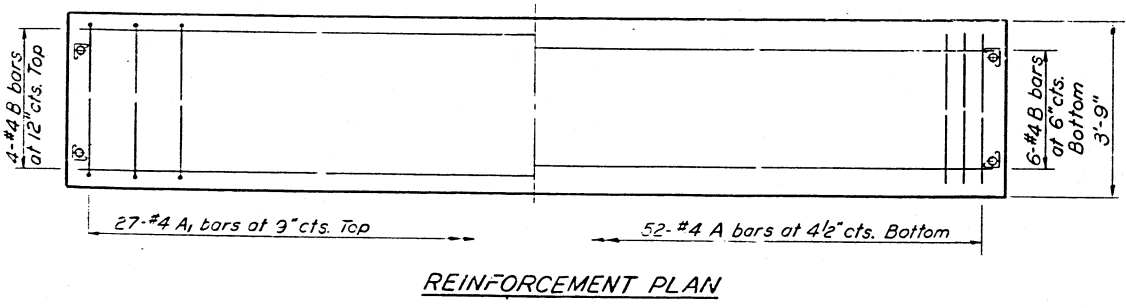
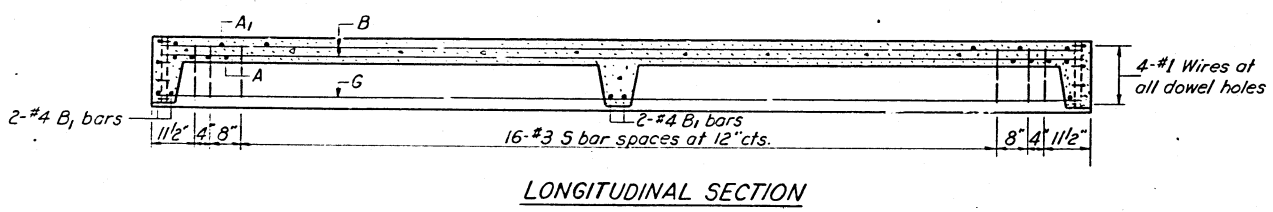
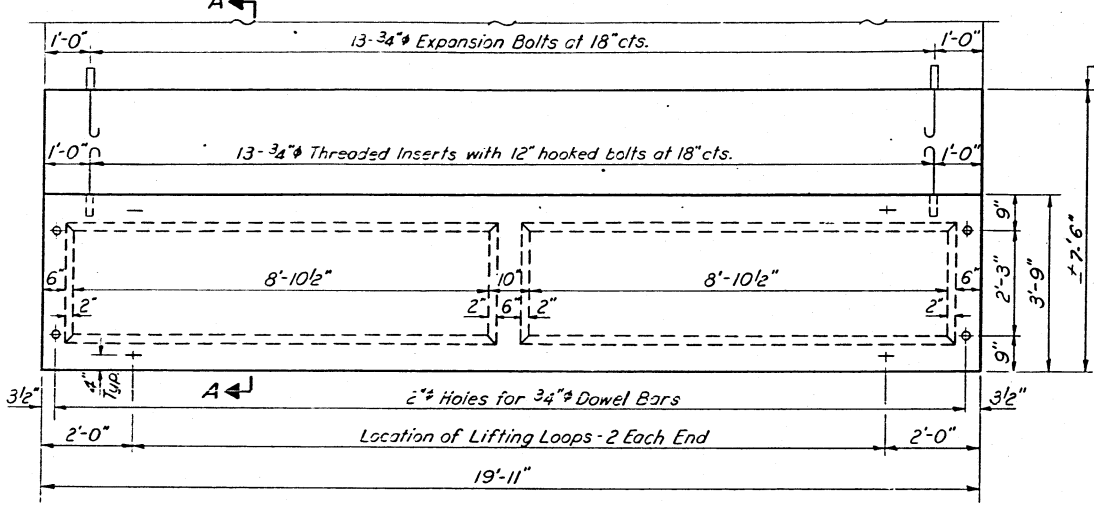
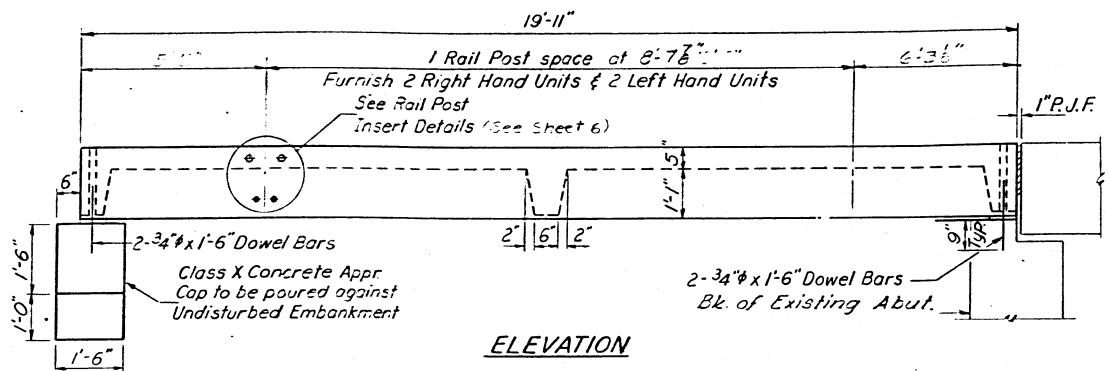


END PLAN

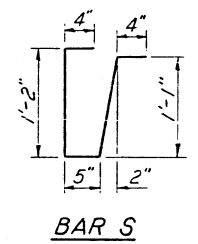
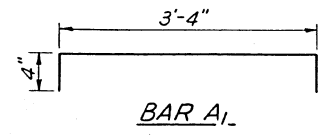
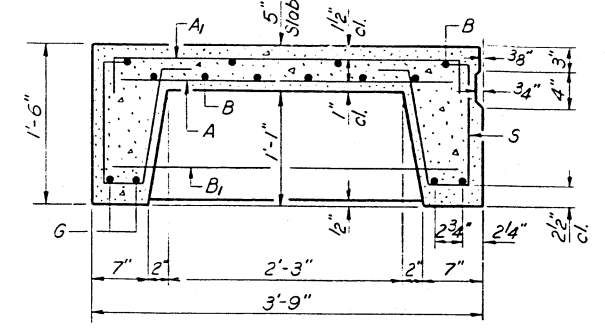
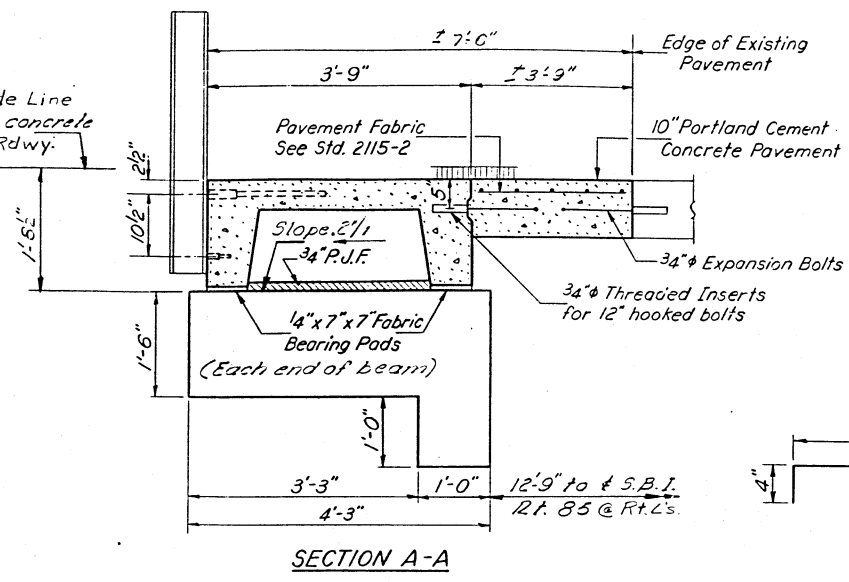
DESIGNED	W. McLaughlin
CHECKED	A. D. Hummel
DRAWN	J. Kessler
CHECKED	A. D. Hummel

EXAMINED	July 2, 1969
PASSED	[Signature]
APPROVED	[Signature]

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

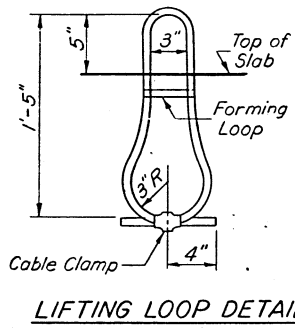


Reference Grade Line
Top of existing concrete
pavement @ E Rdwy.



BAR LIST-ONE UNIT
Reinforcement to be cast into slab

Bar	No	Size	Length	Shape
A	52	#4	3'-3"	—
A1	27	#4	4'-0"	—
B	10	#4	19'-6"	—
B1	6	#4	3'-6"	—
G	4	#10	19'-6"	—
S	42	#3	3'-4"	—



GENERAL NOTES

Unless otherwise approved by the Engineer, lifting loops shall be 1/2", 6x19 class wire rope with fiber core and shall have a minimum ultimate strength of 18,700 lbs. Loops shall be burned off after slab has been erected. Holes shall be drilled and anchor dowels grouted in place. Cost of reinforcement and accessories cast into the slab unit, bearing pads, furnishing, drilling for, placing and grouting anchor dowels and 3/4" hooked bolts is included in Unit bid price for "Precast Concrete Bridge Slab". The precast concrete bridge slab shall be erected and aligned with the exterior face of the exterior deck beam after deck beams are in final position.

BILL OF MATERIAL

Item	Unit	Quantity
Precast Concrete Bridge Slab	Sq. Ft.	299
Portland Cement Concrete Pavement (10)	Sq. Yds	34
Pavement Fabric	Sq. Yds.	3+
* Expansion Bolts 3/4"	Each	52
Class X Concrete	Cu. Yds.	1.6

* Expansion bolts shall consist of self drilling expansion studs with 3/4" hooked bolts. Hooked bolts shall extend a min. of 9" into new concrete.

STRESSES

$f_c = 4,500$ psi.
 $f_s = 1,800$ psi.
 $f_s = 20,000$ psi.
 $n = 8$

LOADING HS-20

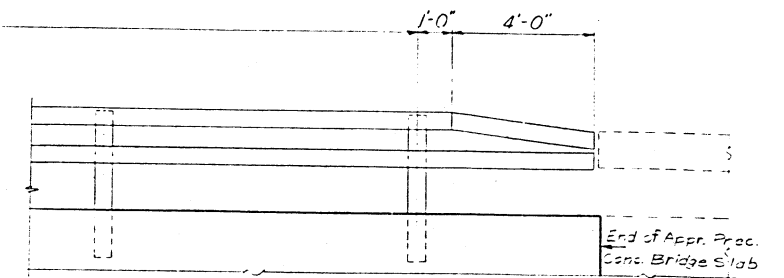
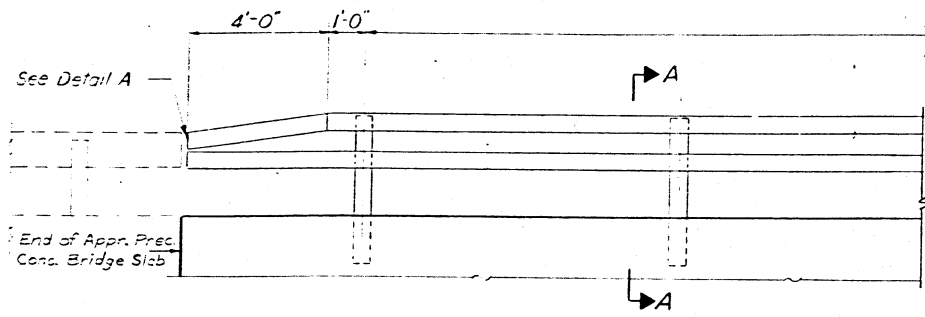
APPROACH DETAILS
S.B.I. RT. 85 SEC. 103BR
MERCER COUNTY
STATION 864+11.10

DESIGNED	EXAMINED
CHECKED	PASSED
DRAWN	APPROVED
CHECKED	

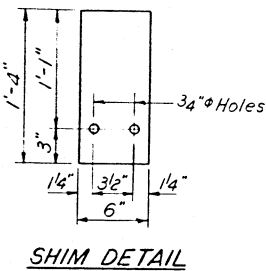
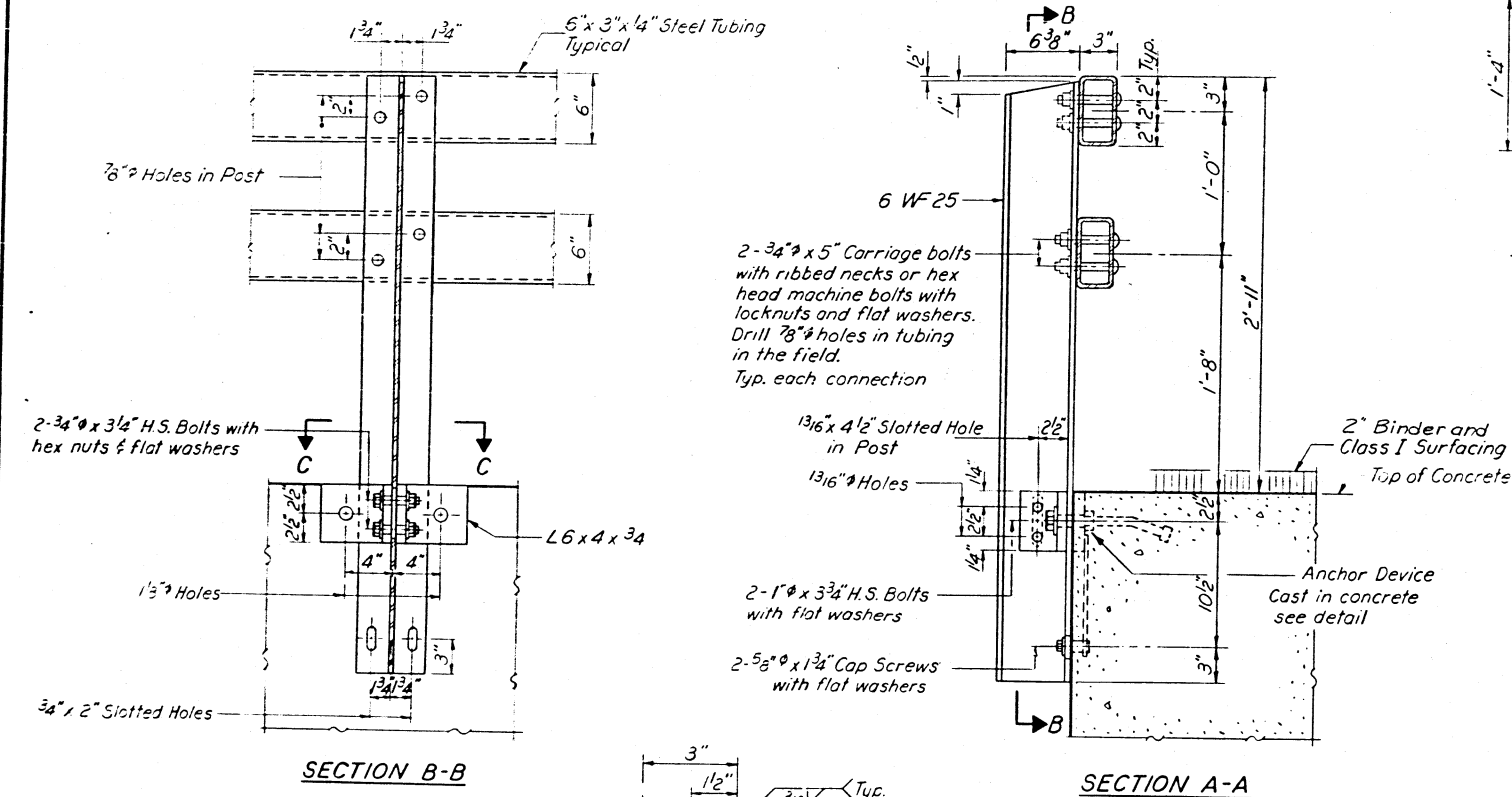
July 3 1969

DATE

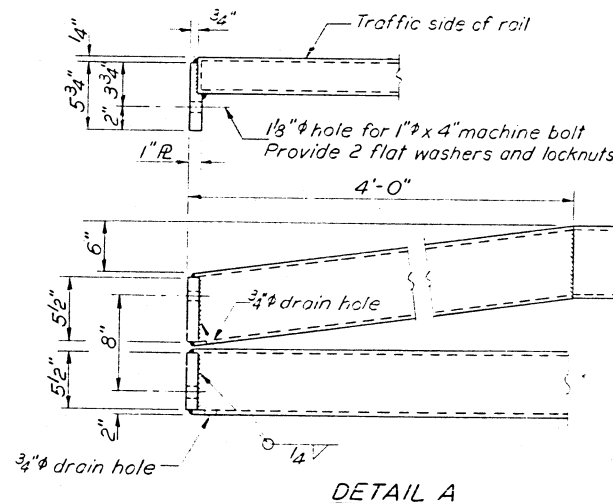
15 Rail Post Spaces at 5:73' 129' 10"



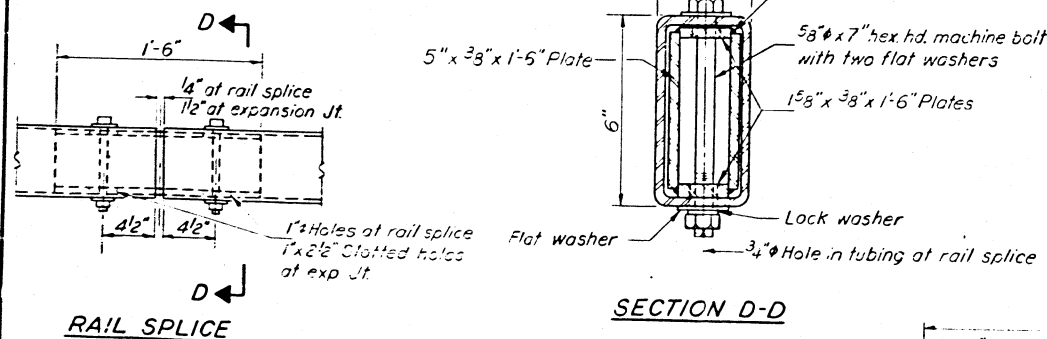
ELEVATION
Showing inside face of railing



SHIM DETAIL

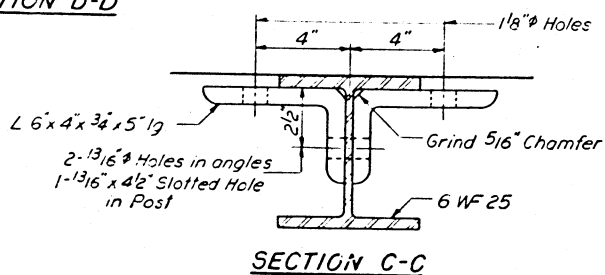


DETAIL A

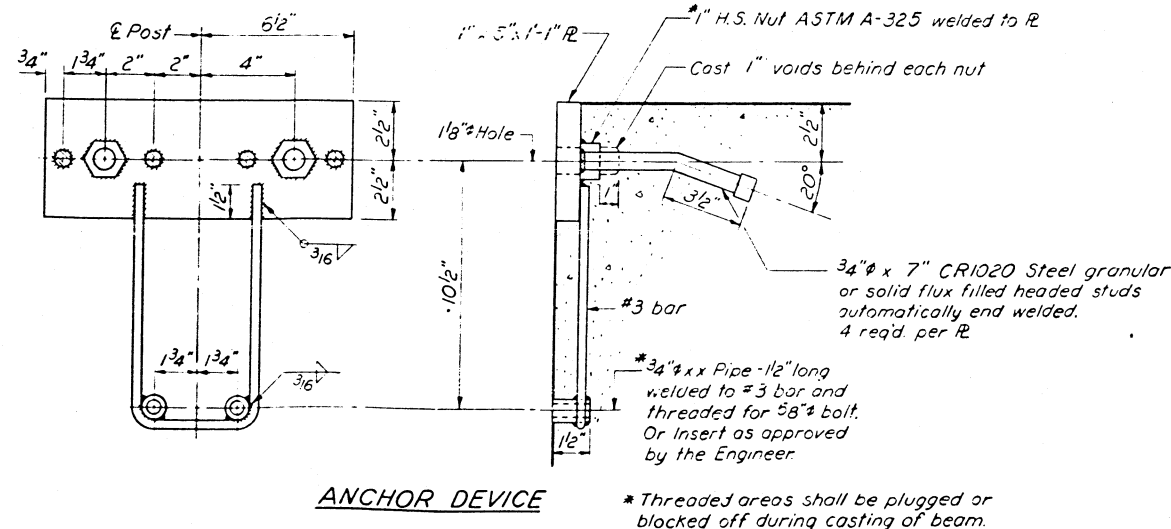


RAIL SPLICE

SECTION D-D



SECTION C-C



ANCHOR DEVICE

NOTES

Hollow structural steel tubing shall conform to the requirements of ASTM designation A-501 "Hot Formed Welded and Seamless Carbon Steel Structural Tubing."

All other steel shapes and plates shall conform to the requirements of ASTM designation A-36 except posts shall conform to ASTM A-441.

Bolts, cap screws, and nuts shall conform to the requirements of ASTM designation A-307 except for high strength bolts, nuts and washers noted which shall conform to ASTM designation A-325.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with ASTM designation A-153.

All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with ASTM designation A-123 and A-385. Galvanized rail shall not be painted.

Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per lineal foot for STEEL RAILING, TYPE N

All field drilled holes shall be coated with an approved zinc rich paint before erection.

The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 714.08 Type B or place 1/2 inch fabric bearing pad between the post and concrete.

The 3/4 inch high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened in accordance with Article 710.11 of the Standard Specifications. The 1 inch high strength bolts connecting the angles to the concrete beam shall be tightened to a snug fit and given an additional 1/8 turn.

For multi-span bridges, sufficient 1/4 x 6 x 1-4 galvanized steel shims shall be provided to align rail between adjacent spans. Cost incidental to Steel Railing.

BILL OF MATERIAL

Item	Unit	Quantity
STEEL RAILING, TYPE N	Lin. Ft.	230

**TYPE N
STEEL RAILING**

S.B.I. RT. 85 SEC. 103 BR
MERCER COUNTY
STATION 564+11.10

DESIGNED	J.L. Armstrong
CHECKED	A. A. H.
DRAWN	J.L. Armstrong
CHECKED	A. A. H.

EXAMINED	19
PASSED	
APPROVED	

(3'-0" Max Post Spacing)

* Threaded areas shall be plugged or blocked off during casting of beam.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
STATE BOND ISSUE HIGHWAY

BOND ISSUE ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
85	103C-I	MERCER	6	1
S. B. I. ROUTE NO.		ILLINOIS PROJECT		
		P-94-137-66		

INDEX OF SHEETS

- 1 TITLE, INDEX, & SUMMARY OF QUANTITIES
- 2 GENERAL PLAN & ELEVATION
- 3 SUPERSTRUCTURE DETAILS
- 4 STANDARD NO. 2114 - "SLOW AND STOP" SIGN
- 5 STANDARD NO. 2209-2 - BARRICADES
- 6 STANDARD NO. 2209-1 TYPICAL PLACEMENT OF SIGNS & BARRICADES

SCALES

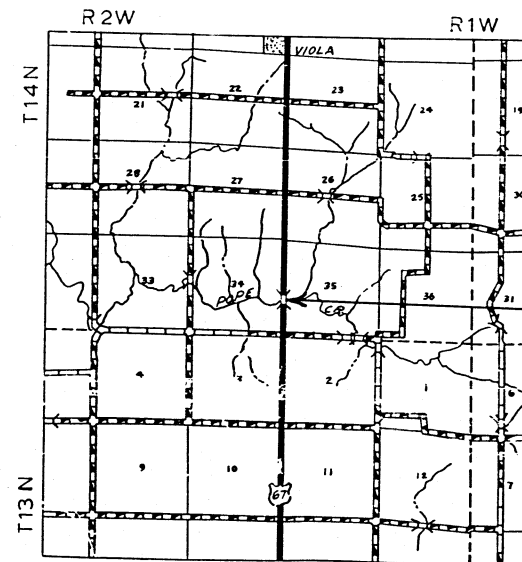
PLAN	1 INCH	100 FT.
PROFILE, HOR.	1 INCH	100 FT.
PROFILE, VERT.	1 INCH	10 FT.
CROSS-SECTIONS	1 INCH	5 FT.

SBI ROUTE 85
SECTION 103C-I
MERCER COUNTY



SUMMARY OF QUANTITIES

QUANTITY	UNIT	ITEM	CODE NO.
0.6	CU YD	CONCRETE REMOVAL	049003
50.6	CU YD	CLASS X CONCRETE	052003
270	SQ YD	PROTECTIVE COAT	052021
5,220	POUND	F & E STRUCTURAL STEEL	054001
12,390	POUND	REINFORCEMENT BARS	059001
76	LIN FT	SAWED EXPANSION JOINT 4 INCH	200220
1	L SJM	BRIDGE SEAT SEALANT	201023
1	L SJM	REMOVAL OF EXISTING CONCRETE DECK	049062



PROPOSED IMPROVEMENT INCLUDES REPAIRS TO THE
 BRIDGE OVER POPE CREEK ON S.B.I. ROUTE 85



STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF HIGHWAYS

SUBMITTED 7-5-66
J. E. Harland
 DISTRICT ENGINEER

EXAMINED July 15, 1966
D. W. ...
 ENGINEER OF ROAD PLANS AND CONTRACTS

PASSED July 15, 1966
H. P. ...
 ENGINEER OF DESIGN

APPROVED July 15, 1966
[Signature]
 CHIEF HIGHWAY ENGINEER

APPROVED July 15, 1966
[Signature]
 DIRECTOR

SUBMITTED 7-5-66
M. J. ...
 DIST. DESIGN ENGR.

EXAMINED July 5, 1966
G. B. ...
 DIST. CONST. ENGR.

EXAMINED JULY 1, 1966
R. E. ...
 DIST. MAINT. ENGR.

EXAMINED July 1, 1966
[Signature]
 DIST. TRAFFIC ENGR.

Entire section inspected and approved as to policy.

DATE 7-5-66 *J. E. Harland*
 DISTRICT ENGINEER

Reel 4-62
 Sec: 103C-I
 STA: 864+11-10

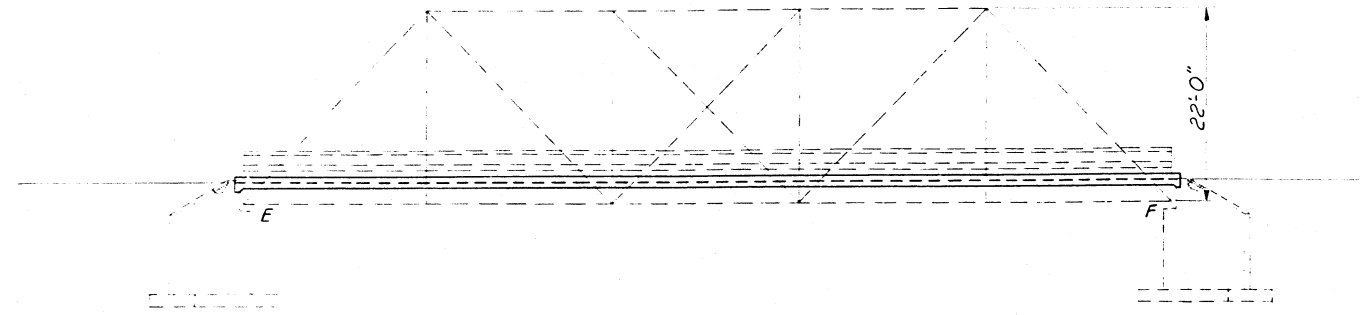
CONTRACT NO. 24800 **066-0003**

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1 2 SHEETS
S.B.I. 85	103 C-1	MERCER	6	2	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

GENERAL NOTES

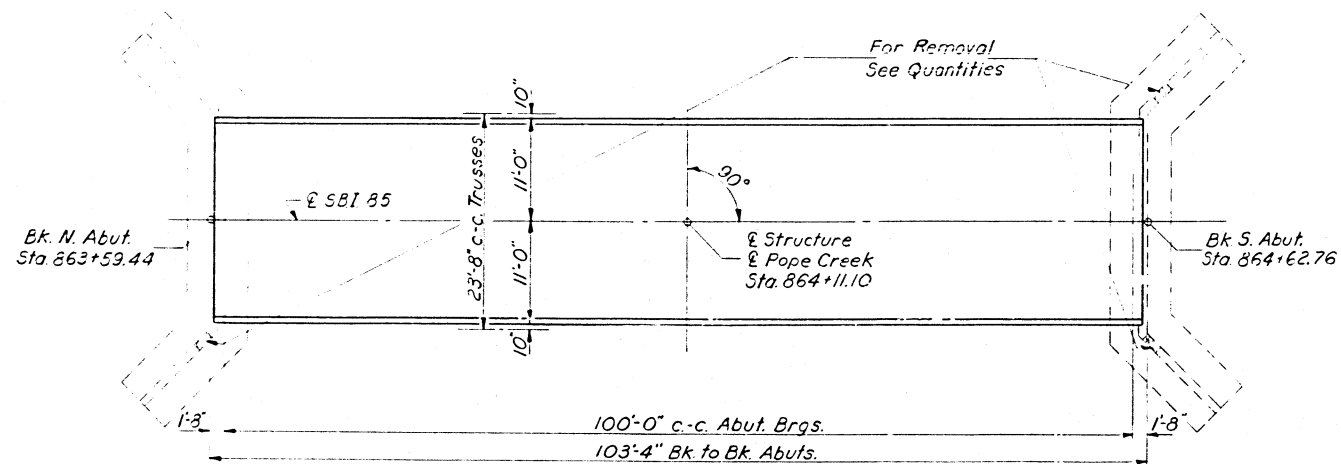
Existing R.C. deck to be removed and replaced using Stage Construction so as to permit one lane traffic on the structure during construction.
Class X Concrete shall be used throughout.
The concrete floor slab shall be finished in accordance with Article 51.19 of the Standard Specifications except that a finishing machine will not be required.
Permanent forms will not be permitted in forming the concrete floor.
All reinforcement bars shall be lapped 20 diameters unless otherwise shown.
New Structural Steel shall conform to A.S.T.M. Classification A-36.
Welding shall comply with current Specifications of the American Welding Society "Welded Highway and Railway Bridges."
Except as otherwise provided, all new structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Articles 56.1 to 56.5 inclusive of the Standard Specifications. Shear studs shall not be painted.
Stud shear connectors on the stringer flanges shall be placed in the field after the deck forms are in place. Flange shear connectors are included in the quantity of structural steel.
No. Feqd = 2750, Estimated Weight = 1530#.
All dimensions and conditions existing in the field shall be verified prior to construction and ordering materials.



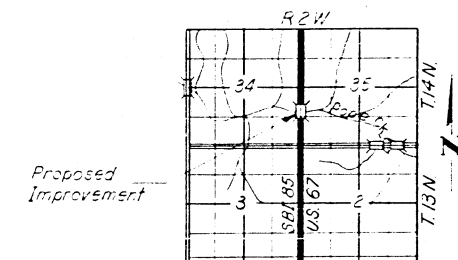
ELEVATION

3 Areas in the abutment wings are to be removed & replaced at the direction of the Engineer

Item	S.E.	S.W.	N.W.	Total	Unit
Concrete Removal	.25	.1	.25	0.6	Cu Yds
Class X Concrete	.25	.1	.25	0.6	Cu Yds



PLAN



LOCATION PLAN

TOTAL BILL OF MATERIAL

Item	Unit	Total
Removal of Existing Concrete Deck	L. Sum	1
Class X Concrete	Cu. Yds.	50.6
Structural Steel	Lbs.	5220
Reinforcement Bars	Lbs.	12,890
Protective Coat	Sq. Yds.	270
Bridge Seat Sealant	Lump Sum	1
Sawed Expansion Joint (4")	Lin. Ft.	36
Concrete Removal	Cu. Yds.	0.6

DESIGNED	I. Caspar	June 25 1966
CHECKED	J. P. Henderson	Examined by Carl E. Thurman
DRAWN	J.L. Armstrong	Passed by H.S. Alton
CHECKED	I.K.	Approved by [Signature]

DESIGN STRESSES

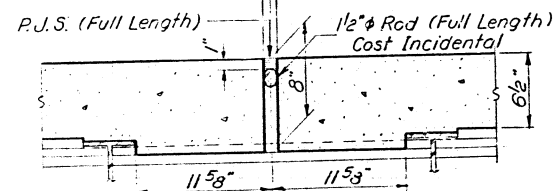
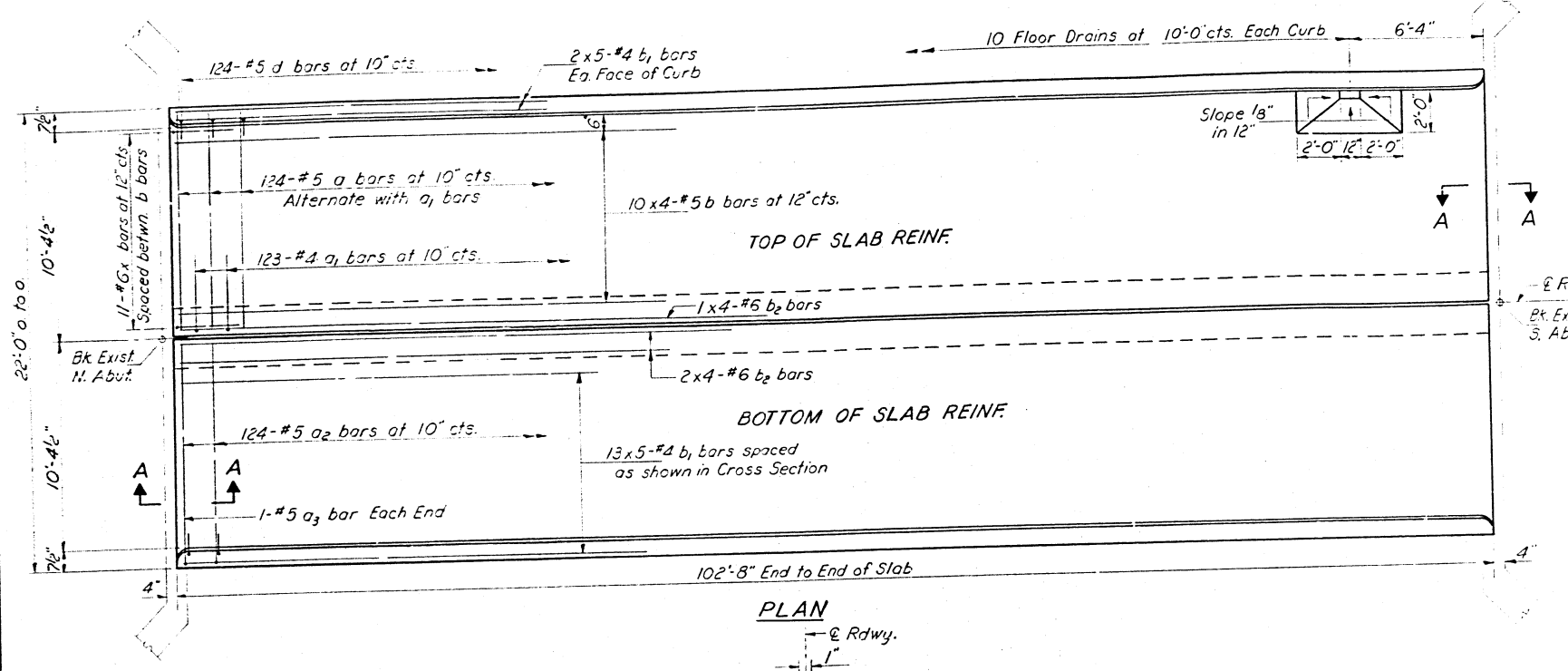
$f_c = 1400$ psi.
 $f_s = 20,000$ psi. (Reinf.)
 $f_s = 20,000$ psi. (Struct.)
 $n = 10$

EXISTING DESIGN STRESSES

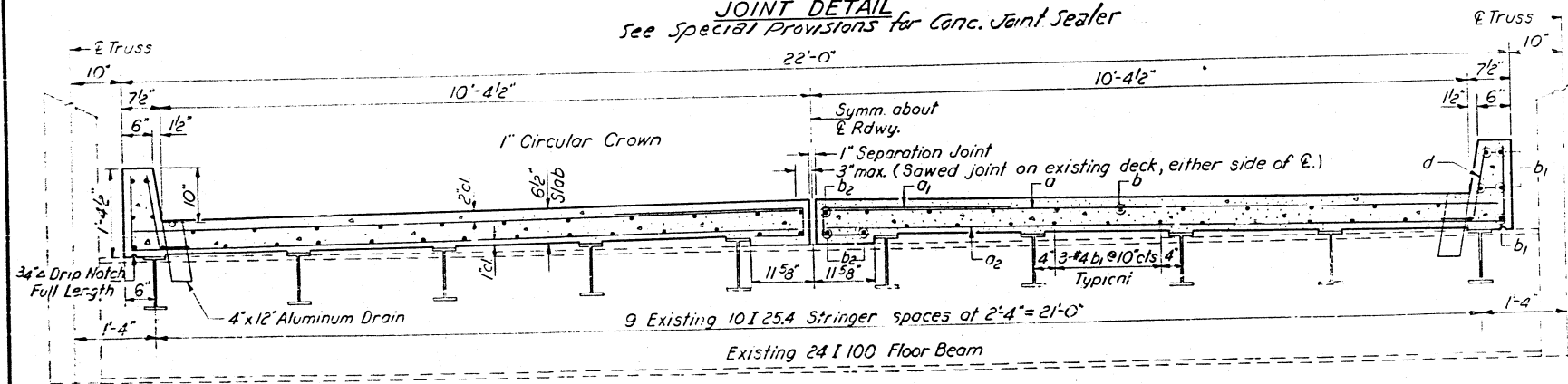
(ASSUMED)
 $f_c = 800$ psi.
 $f_s = 16,000$ psi.
 $n = 12$

LOADING H 20-44

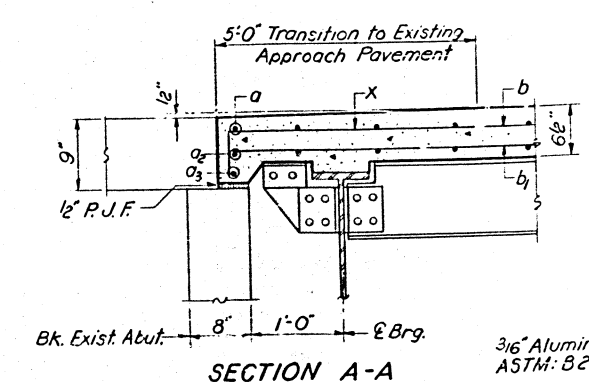
GENERAL PLAN & ELEVATION
BRIDGE OVER POPE CREEK
S.B.I. RT. 85 SEC. 103 C-1
MERCER COUNTY
STA. 864 + 11.10



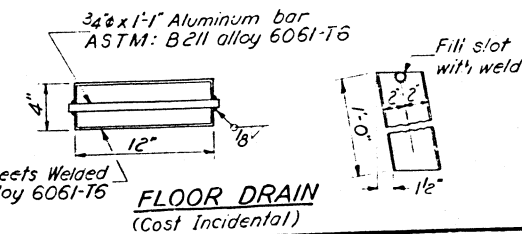
JOINT DETAIL
See Special Provisions for Conc. Joint Sealer



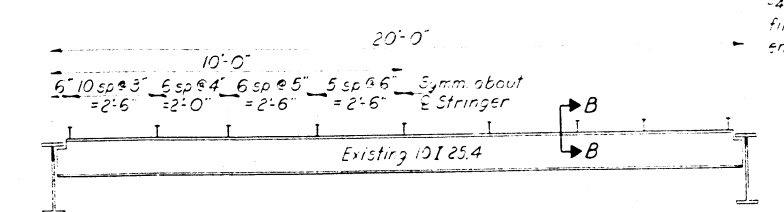
CROSS SECTION



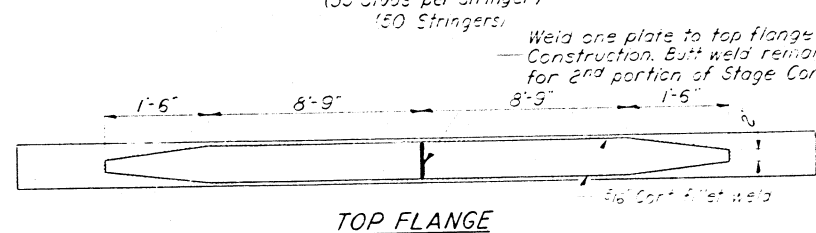
SECTION A-A



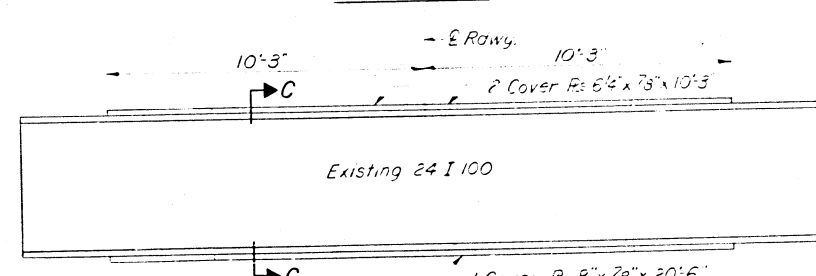
FLOOR DRAIN
(Cost Incidental)



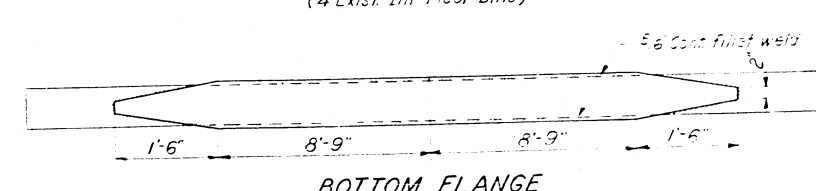
TYPICAL STRINGER
(55 Studs per stringer)
150 Stringers



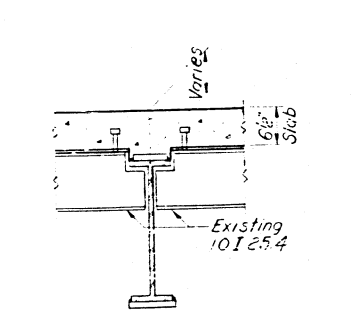
TOP FLANGE



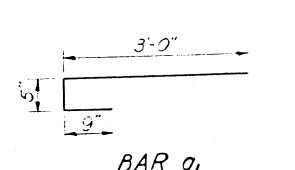
ELEVATION - INTERIOR FLOOR BEAMS
(4 Exist. Int. Floor Bems)



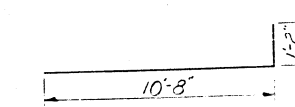
BOTTOM FLANGE



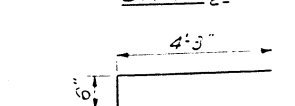
SECTION THRU INTERIOR FLOOR BEAMS



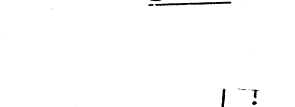
BAR a1



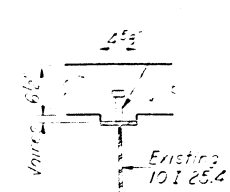
BAR a2



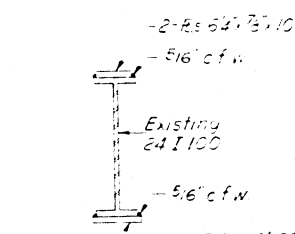
BAR x



BAR d



SECTION B-B



SECTION C-C

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a	248	#5	10'-8"	—	
a1	246	#4	4'-2"	—	
a2	248	#5	11'-10"	—	
a3	4	#5	10'-3"	—	
b	80	#5	26'-6"	—	
b1	170	#4	21'-3"	—	
b2	24	#6	27'-0"	—	
d	248	#5	1'-8"	J	
x	44	#6	4'-9"	—	
Reinforcement Bars				Lbs.	12,890
Structural Steel				Lbs.	5,220
Class X Concrete				Cu.Yds.	50.0

SUPERSTRUCTURE REPAIRS
S.D.I. RT. 85 SEC. 103 C-I
MERCER COUNTY
STA. 864 + 11.10

DESIGNED I. Kapar
CHECKED P.A. Anderson
DRAWN J.L. Armstrong
CHECKED I.K.

EXAMINED Carl E. T. Luman
PASSED H. J. Alton
APPROVED D. G. Staff

June 25 1966

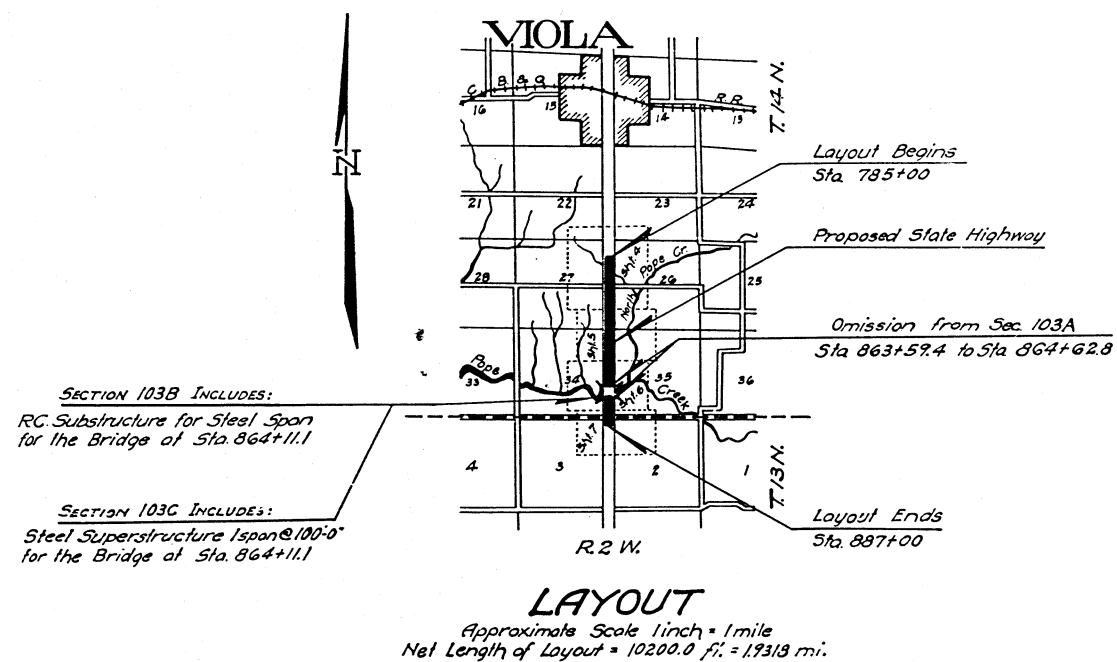


INDEX of SHEETS

Sheet No	Title	Page
2	Standard Cross Section No. 1232, 1358	
3		1359
3	Detail Showing Proposed Detour	
4	Plan & Profile Sta. 785+00 to 815+00	
5		815+00 - 845+00
6		845+00 - 875+00
7		875+00 - 887+00
8-28	Inclusive Cross Sections	
29	Std. Curb Des. No. 828-1, 828-4, 828-5	
29	Spec	Sta. 794+50
30		802+61L, 802+70R, 807+11, 813+21
31		848+83, (869+70L, 869+95R), 876+90, 878+65
32		885+72R, 885+72L
32	Concrete Flume Sta. 794+50L	
32	Baffle Wall Sta. (814+72 to 814+86)L	
33	Spec. Bridge Des. Sta. 864+11.1 Sheet 1 of 2 Sheets	
34	" " " " 864+11.1 " 2 " 2 "	
35	Retaining Wall Sta. (819+75-820+35) R	
35	Standard No. 1162	
36	" " " " 1177	

PROJ. 144, Sec's. 103A, B & C, MERCER Co.

From a point near the SW. Cor. of the NW 1/4, of the NW 1/4 of Sec. 26, T. 14 N., R. 2 W. of the 4th P.M., to a point near the NW. Cor. of Sec. 2, T. 13 N., R. 2 W. of the 4th P.M.



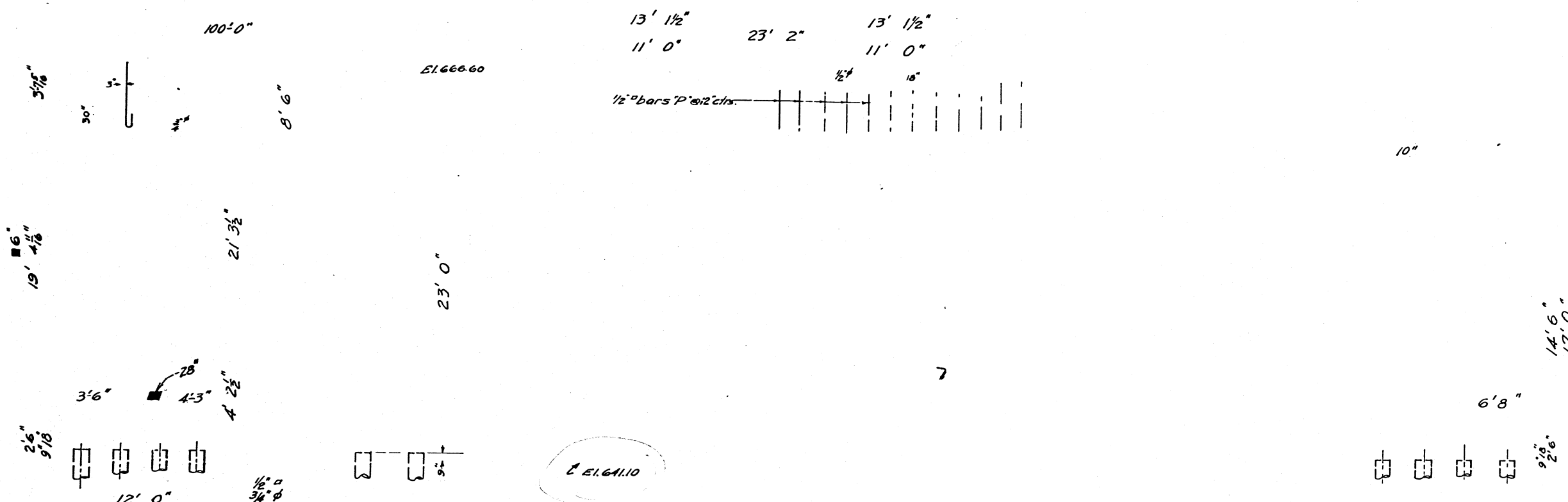
12-15 31
Theo. Plack
E. L. Lyffor
H. L. Linn
Frank J. Hiett
H. L. Oberland

Reel 4-27
SEC 103B
STA: 864+11.10

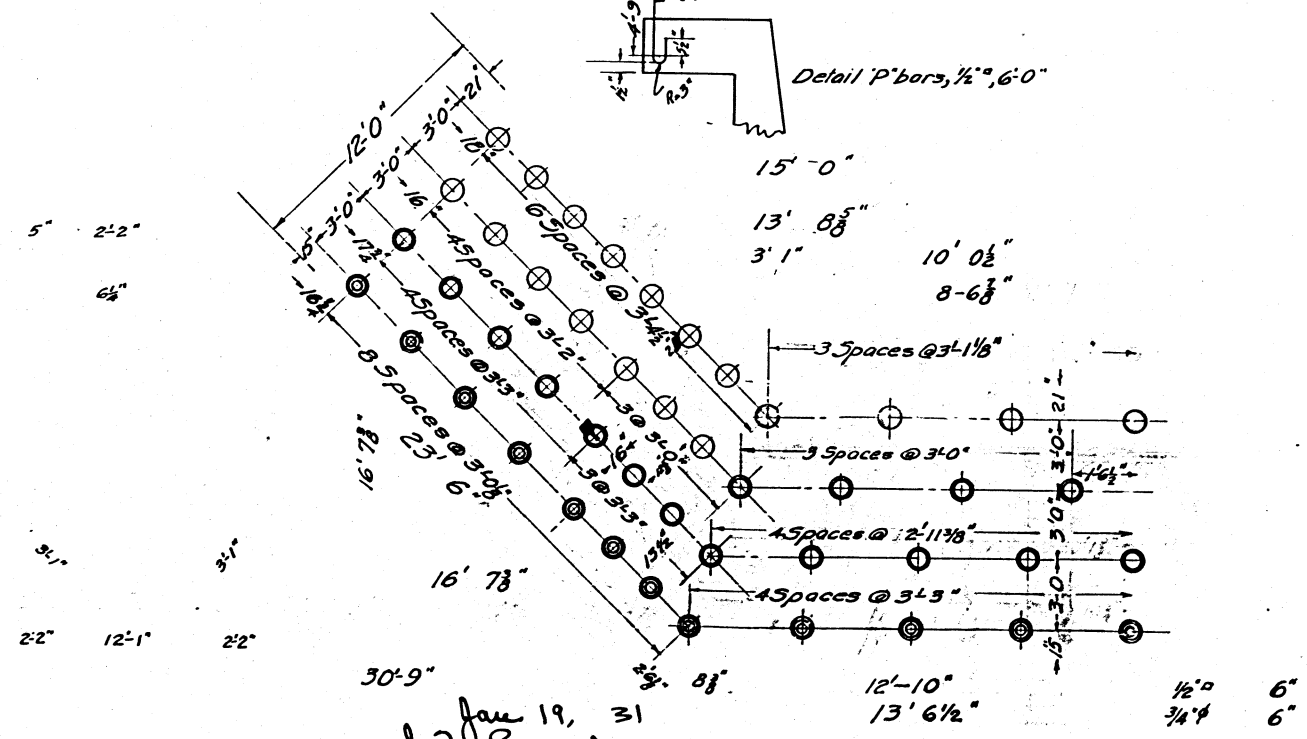
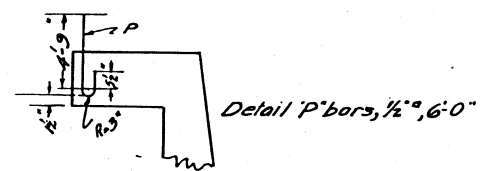
B.M. #74, S&W vert. in tree
 rt. Sta. 866+65.2. El. 659.46

BOND ISSUE ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
85	B-103B	MERCER	36	33
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 144	

2



El. 641.10

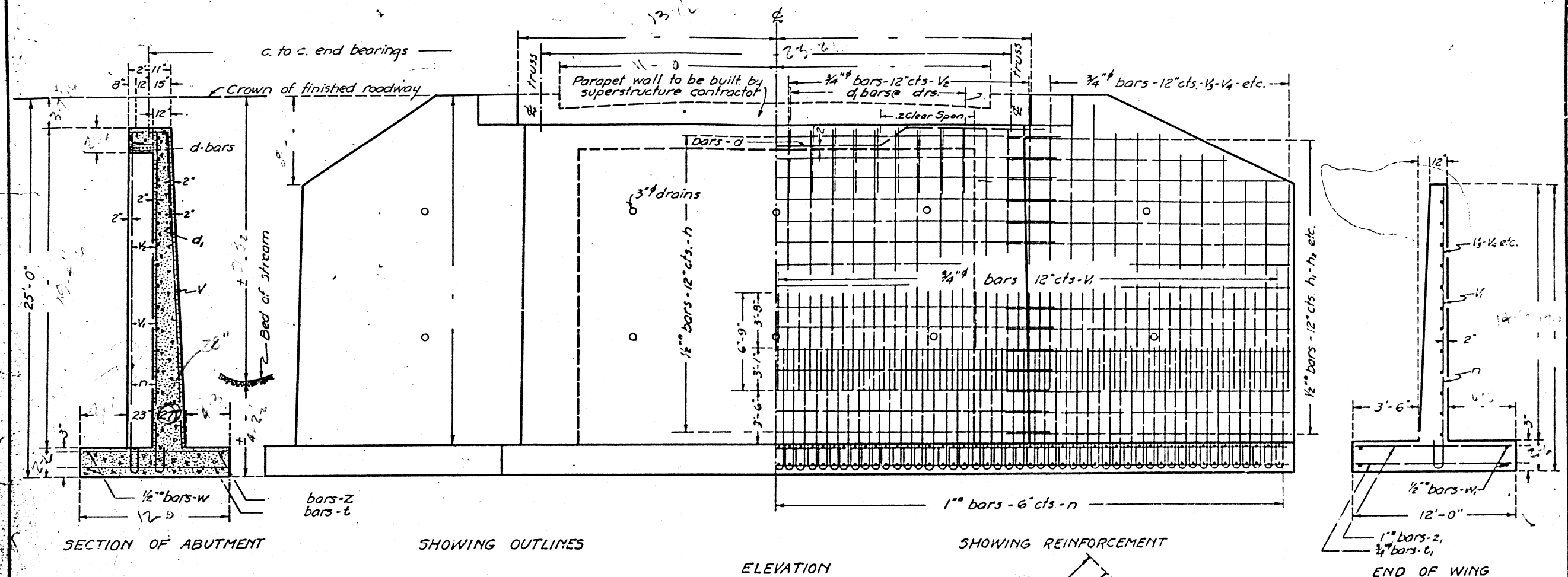


	134		19'-3"
	58		16'-0"
	16		19'-0"
	16		17'-0"
	16		15'-3"
	16		13'-6"
V7	16	3/4" phi	11'-3"
	40		28'-0"
	60		23'-0"
	8		19'-0"
	8		15'-6"
d	26	1/2" phi	10'-0"
p	42	1/2" phi	6'-0"
	266		
	14	3/4" phi	30'-9"
	104	3/4" phi	11'-9"
	196		
	104	1/2" phi	11'-9"
	108		
	8		27'-6"
	16		25'-6"
h4	8	1/2" phi	8'-6"
			29,780
			329.3

- 1070n, untr. Piles, 12' buff. 8' tip, 20' long
- 12 " " " " " " " " " " " "
- 15 " " " " " " " " " " " "
- 64, 1070n Piles req'd
- 62, 12 " " " " " " " " " " " "
- 50, 15 " " " " " " " " " " " "

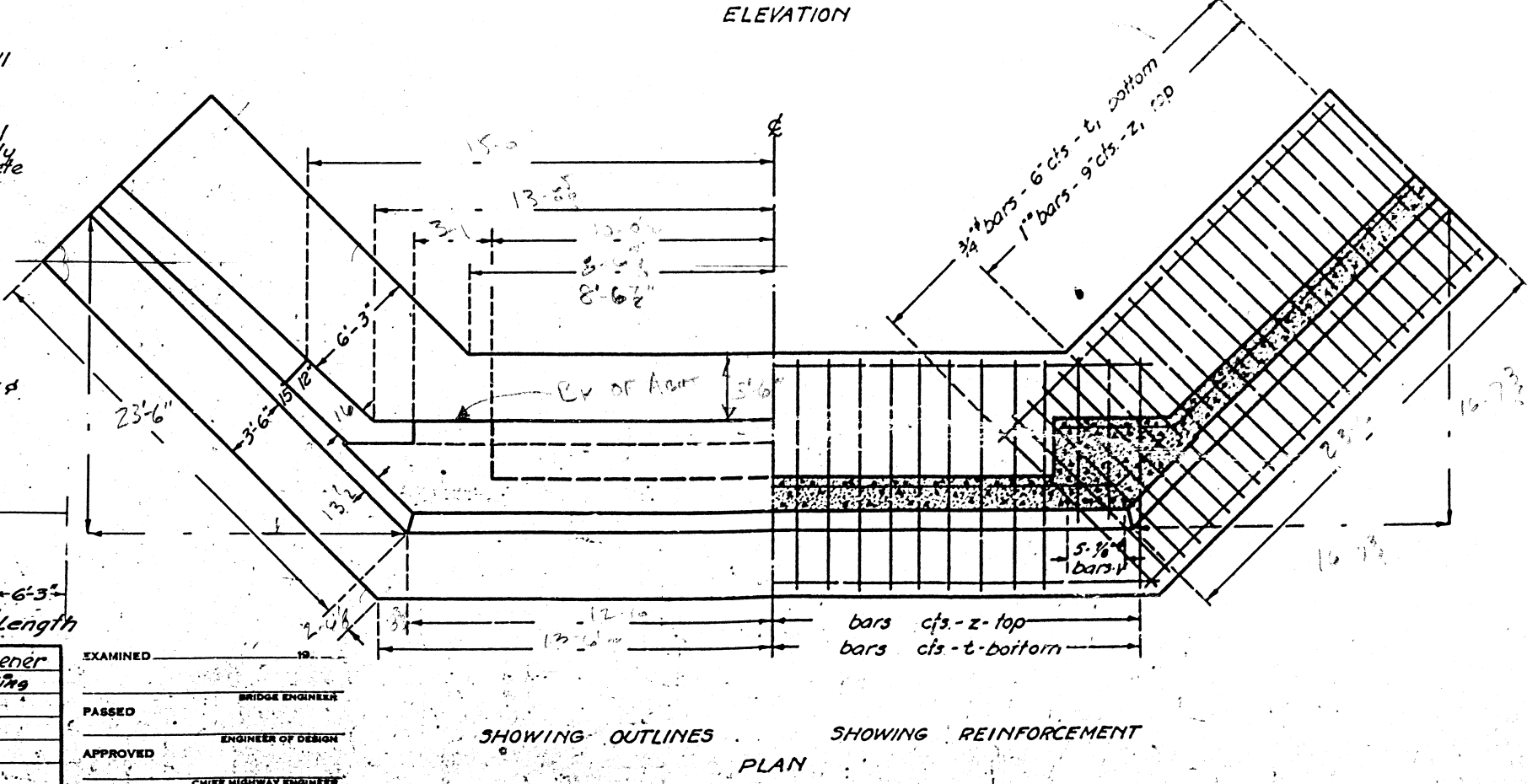
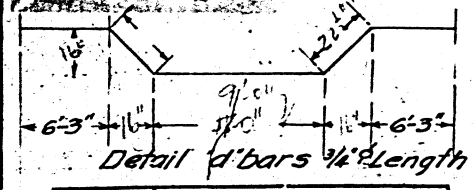
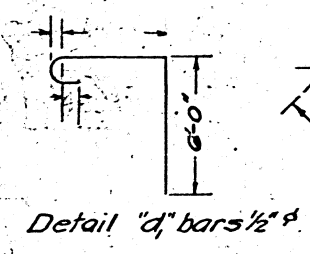
BRIDGE OVER POPE CREEK
 S.B.I. RT. 85-SEC. 103-B
 MERCER COUNTY,
 STA. 864+11.1

Jan 19, 31
 H. F. Burch
 M. J. Ceter.
 C.E. Morgan
 M. J. Ceter.



Class X concrete shall be used thruout.

All reinforcing steel shall be wired securely in place before concrete is poured.



BILL OF MATERIAL

Bar	No	Size	Length
v	20	3/4"	
v ₁		3/4"	6'-9"
v ₂		3/4"	
v ₃		3/4"	
v ₄		3/4"	
v ₅		3/4"	
v ₆		3/4"	
h		1/2"	
h ₁		1/2"	
h ₂		1/2"	
h ₃		1/2"	
n		1"	10'-9"
d			
t		3/4"	11'-9"
z			
z ₁		1"	11'-9"
w		1/2"	
w ₁		1/2"	

Reinforcing Steel - Lbs.
Class X concrete - cu yds.

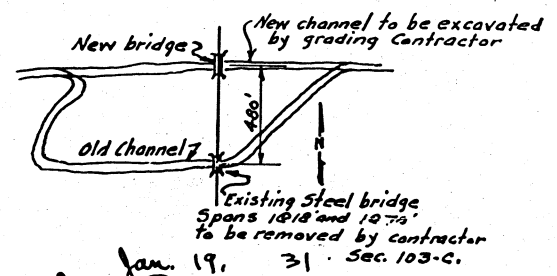
COMPUTED - P. Michener
CHECKED - H. L. King
DRAWN - P.M.
CHECKED - H. L. K.

EXAMINED _____
PASSED _____
APPROVED _____

BRIDGE ENGINEER
ENGINEER OF DESIGN
CHIEF HIGHWAY ENGINEER

revised 1-15-31

BOND ISSUE ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
85	B-103C	Mercer	36	34
FED. ROAD DIST. NO. 7	LAND NO.	FED. RD. PROJECT	168	



Jan. 19, 31. Sec. 103-C.

C.R. Morgan
M.G. Peter

H. F. Beach
H. J. Surman
Frank J. Sheets

Name Plate 30
1

BRIDGE OVER POPE CREEK
S.B.I. RT. 85, SEC. 103-C
MERCER COUNTY
STA. 864+111

