

Ogle County Highway Department

Jeremy A. Ciesiel, P.E., County Engineer 1989 South IL Route 2 Oregon, IL 61061

REQUEST FOR QUALIFICATIONS FOR PHASE I & II PRELIMINARY ENGINEERING

MILL ROAD STRUCTURE REHABILITATION EXISTING STRUCTURE 071-3242 SECTION 23-03121-00-BR

Ogle County is requesting qualifications from interested firms for Phase I Preliminary Engineering and Phase II Preliminary Engineering to rehabilitate Structurer Number 071-3242 in the year 2024 or 2025. This structure is located on Mill Road in Byron Township, just west of Byron, Illinois. One firm will be selected to perform all Preliminary Engineering work.

The existing structure was built in 1980. It is a 3-span (3@36.0') precast prestressed deck beam bridge, 24.0' wide no skew. The structure currently has a Sufficiency Rating of 69.5. While the substructure is in good to very good condition, the existing precast prestressed deck beams have experienced significant deterioration despite multiple attempts at patching.

Byron Township and the Ogle County Highway Department desire to rehabilitate the existing structure by replacing the superstructure. It is further desired that the rehabilitated structure includes a concrete wearing surface. It is expected that the project will be funded with a combination of Township Bridge Program (TBP) funds and local funds.

Anticipated issues for this project include:

- 1) Rehabilitation should also address any substructure deterioration.
- 2) The hydraulic capacity of the existing structure will need to be reviewed to determine if superstructure replacement is appropriate.
- 3) Ogle County is a known habitat of Indiana and Northern Long Eared Bats. Tree removal for the project must be completed no later than March 31 of the construction year to minimize any bat disturbance. Tree removal will be completed separate from the construction letting by local forces. Any tree removal needed will need to take place the winter ahead of the bid letting.

Phase I & II preliminary engineering services are needed for all necessary work to receive Design Approval and to prepare the plans, specifications and estimates (PS&E) package. Specific tasks may include, but are not limited to, the following:

- Data collection and survey
- Environmental studies coordination
- Bridge Condition Report.
- Preliminary Bridge Design and Hydraulic Report
- Prepare IDOT forms including the PDR
- Prepare contract plans and project special provisions/specifications
- Prepare estimates of cost and time
- Right of Way acquisition including Highway Plats and Legal Descriptions

Prime firm must be IDOT prequalified in the following categories:

- Structures: Highway-Typical

Mill Rd Bridge Section 23-03121-00-BR

Firms who submit qualifications will be evaluated on the following criterion:

Technical Approach – 25% Firm Experience – 15% Work Load Capacity (Anticipated Timeline) – 20% Past Performance on Similar Projects (Not necessarily with Ogle County) – 25% Approach to planning, organizing and management – 15%

Attached to this Request, please find the following information for your use:

- Location Plan
- Photos of Existing Structure
- 2021 Bridge Inspection Documents
- Existing Structure Plans

Interested firms shall submit three (3) copies of qualifications to the Ogle County Highway Department, in writing, no later than 3:00 P.M. on Monday, May 15, 2023. Emailed submittals will also be accepted. Firms must also submit a disclosure statement with their qualifications. The disclosure statement form can be found at: http://www.oglecounty.org/departments/highway_department/qbs.php

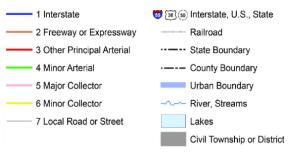
Responses and questions should be directed to:

Mr. Jeremy A. Ciesiel, P.E. Ogle County Engineer 1989 South IL Route 2 Oregon, IL 61061 Phone: (815) 732-2851 Email: highway@oglecountyil.gov



T25N, R10E of the 4th P.M. Byron Township, Section 25

5-Year Classification



Mill Rd Existing Structure Structure Number 071-3242 Byron Township Ogle County, Illinois





Routine Inspection Report

SN: 071-3242	District: 2		Appr. Spans: 0	Skew: 0	ADT: 525	Truck Pct: 10
	Maint. Co:	71 - Ogle		3 - Byron		en, no restrictions
Facility Carried: MILL					MILL CREEK	1
Location: 1.7 MI NW (JF I	Municipality: 00		Team/Sub		Insp/Rte:
Bridge Name:	0.1					e / Box beam - Multiple
Insp. Intervals Routine		racture Critical:		vater: 0		lement Level:
90 - Inspection Date:	8/5/2021 Reason:		900 -	Temp (°F): 71	90B1	I - In Depth: 🔀
Is Delinquent: 90A - Agency Program		Ciesiel Jeremy				
90A1 - Team Leader:				Inspector: Wa	agner, Michael C.	
	rragitor, ini		- Previous Inspe	•		
 1) Two longitudinal cracks in the 2nd beam from the South (W. Span) along each edge go the entire length of the beams. 2) Several areas of delanination in the beam tops that have not been repaired. Some patches sound delaninated as well. 3) Heavy leakage throughout the keyways of the deck beams in each span. 						
			Resourc	es		
Time to Inspect (H:M):	<u>01:00</u>	Traffic	Control: _	Boat: _	Waders: W	Snooper: _
Ladder: Ma	anlift: _	Bucket Tr	uck: O	ther: _		· · · · ·
			Inspector's Ap	oraisals		
			inspector of th	•		
58 - Deck Condition:	Pre	New 5 See item	#1 below	C	omments	
56 - Deck Condition.	<u> </u>					
59 - Superstructure Co	ndition: <u>5</u>	5 See item	#1 below			
60 - Substructure Cond	dition: <u>8</u>	8				
62 - Culvert Condition:	<u>N</u>	<u>I</u> N				
61 - Channel Condition	n: <u>7</u>	7				
71 - Waterway Adequa	icy: <u>9</u>	9				
72 - Approach Rdwy A	lign: <u>8</u>	8				
111 - Pier Navig Protect	ction: <u>N</u>	<u>I</u> N				
36A - Bridge Railing Ad	Pre dequacy: <u>2</u>					
Approach Guardrail Ac	Prev New Prev New Prev New Approach Guardrail Adequacy: 36B - Transitions: 1 1 36C - Guardrail: 1 1 36D - Ends: 1 1					
	Additi	onal Inventory	Data - To Be Ver	ified During R	outine Inspection	
		_				
108A - Wearing Surface 108D - Total Deck Thio		<u>108B - Tr</u>	ype of Membrane:	<u>E</u> 1080	C - Deck Protection:	L
59A - Paint Date (Mo/Yr): 59B - Paint Type:						
59C - Utilities Attached: <u>N</u> <u>N</u>						
113A - Scour Critical A			113 - Scour C	Critical Rating:	5 113B - Evalu	uation Method: <u>B</u>



Routine Inspection Report Structure Number: 071-3242

<u>Weight Limit Posting:</u>	70A2 - Single Unit Vehicles:	_
	70B2 - Combination Type 3S-1 (3 or 4 axles):	-
	70C2 - Combination Type 3S-2 (5 or more axles):	_
	70D2 - One Truck at a Time:	<u>0</u>

90B - Inspection Remarks

Two longitudinal cracks in the 2nd beam from the South (W. Span) along each edge go the entire length of the beams.
 Several beams have large areas of delamination's that have not been repaired on the top surface of the beams. And several of the patched areas sound delaminated.

3) Heavy leakage throughout the keyways of the deck beams in each span.

	Signature	Date
Inspection Team Leader:		
Agency Program Manager:		

Use Additional Forms as Needed

Illinois Department of Transportation Structures Information Management System Master Structure Report (S-107)

Structure Number: 071-3242 District: 2

				Inventory Da	ta					
Facility Carried:	MILL ROAD		Bridge Name:			Sufficiency Rating:		69.5	Structure Length:	110.0
Feature Crossed:	MILL CREEK		Location: 1.7 M	II NW OF BYRON		HBP Eligible:		No	AASHTO Bridge Lei	ngth: 99.9
Bridge Remarks:						Replaced By:			Length of Long Spa	n: 36.0
Bridge Status:	1 OPEN - NO RESTRICT		StatusDate: 4/1	1/1988		Replaces:			Bridge Roadway Wi	dth: 24.0
Status Remarks:						Last Update Date:	03/	30/2021	Appr Roadway Widt	th: 28.0
Maint County:	071 OGLE Ma	int Tov	wnship: 03 BYRON			Parallel Structure:		None	Deck Width:	24.0
Maint Responsibility:	90 TOWNSHIP OR ROAD	DISTR	ICT UNKNOWN	١		Multi-Level Structure	e Nbr:		Sidewalk Width Rig	ht: 0.0
Service On/Under:	1 HIGHWAY		/ 5 WATERW	VAY		Skew Direction:		None	Sidewalk Width Lef	t: 0.0
Reporting Agency:	3 COUNTY					Skew Angle: 0	D		Navigation Contro	l: 0 No
Main Span Matl/Type:	5 PRESTRESS CONCRET	E	/ 05 BOX BEAM C	OR GIRDER-MULTIP	LE	Structure Flared:		No	Navigation Horiz C	Clear: 0
Nbr Of Main Spans:	3 Nbr Of Approach Spa	IS:	0			Historical Significan	ce:	No	Navigation Vert Cl	ear: 0
Approaches						Border Bridge St	tate:		Culvert Fill Dept	h: 0.0
Near #1 Matl/Type:			/			Bdr State SN:			Number Culvert	Cells: 0
Near #2 Matl/Type:						Bdr State % Res	ponsibil	ity:	0 Culvert Opening	Area: 0.0
Far #1 Matl/Type:						Structural Steel	Wt:		0 Culvert Cell Heig	ght: 0.00
Far #2 Matl/Type:						Substructure Ma	terial:		Culvert Cell Wid	th: 0.00
Median Width/Type:	0 Ft. / 0 None				Rated By:	N N/A		Rate Met	hod: D ASSIGN	ED RATING BAS
Guardrail Type L/R:	0 None / 0	Non	ne Invent	ory Rating: 1	.000 (36)	Load Rating Date: 0	1/01/190	00	***Railroad Crossin	g Info***
Toll Facility Indicator:	0 No Toll		Opera	ting Rating: 1	.365 (49)			Cross	sing 1 Nbr:	
Latitude: 42.13803	934 Longitude: 89.2942	7328	Desig	n Load: 02 HS20				Cross	sing 1 Nbr:	
Deck Structure Type:	E PCAST PRES CN D	K BM	Deck Structure	Thickness:	17.0 SD: N	FO: N		RR La	ateral Underclear:	0.0
Sidewalks Under Struc	ture: 0 None							RR V	ertical Underclear:	0 Ft 0 In
	Key Route	On [Data			Key	Rout	e Unde	r Data	
Key Route Nbr: TOWN	ISHIP OR ROAD DISTRICT	0071	Station: 0.6900					Station	:	
Appurtenances Main F	Route 00000		Segment:					Segme	nt:	
Inventory County: 0	71 OGLE		Linked: Y					Linked	:	
Township/Road Dist	3 BYRON		Natl. Hwy System:	Not on NHS				Natl. H	wy System:	
Municipality 0000			Inventory Direction:					Invento	ory Direction:	
Urban Area: None	e		Curr AADT Yr/Count:	2017 / 525				Curr A	ADT Yr/Count:	1
Functional Class: 7	LOCAL		Est Truck Percentage:	10 %				Est Tru	ick Percentage:	%
** CLEARANCES ** So	uth/East North/West		Number Of Lanes:	2	South/East	North/West		Numbe	r Of Lanes:	
Max Rdwy Width:	24.0		One Or Two Way:	2 Two-Way				One Or	Two Way:	
Horizontal:	24.0 0.0		Bypass Length:	40				Bypass	S Length:	
Min Vertical: 99	Ft 11 In 00 Ft 00 In		Future AADT Yr/Cnt:	2040 / 800	Ft	In Ft In		Future	AADT Yr/Cnt:	1
10 Ft Vertical: 99	Ft 11 In 00 Ft 00 In		Designated Truck Rte:	NONE	Ft	In Ft In		Design	ated Truck Rte:	
Lateral:			Special Systems:	No		Ft Ft		Specia	Systems:	
	*** Marked Rou	ite Or	n Data ***			*** Mark	ed Roi	ute Und	ler Data ***	
	Designation		Kind	Number		Designation			Kind	Number
Route #1: 1 Mainli	ne	4 FA	AS, CH, or TR's Unmarked							
Route #2: 1 Mainli	ne									
Route #3: 1 Mainli	ne									

Illinois Department of Transportation Structures Information Management System Master Structure Report (S-107)

Page 2

Structure Number: 0	71-3242 District:	2				
		Data Related to Inst	spection Information	on		
***Inspectio	n Intervals ***	*** Maximum Allo	wable Posting Limits **	*	Bridge Posting Level:	
Routine NBIS: 24 MC	OS Underwater: 0 MOS	One Truck At A Time: 0	Combination Type 3	S-1: Tons	5 No Posting Required	
Fracture Critical: 0 MC	NS Special: N	Single Unit Vehicles: Ton	s Combination Type 3	S-2: Tons		
		Inspection/App	raisal Information			
Inspection Date:	08/05/2021 Insp	ection Temperature: 71 Deg. F	Insp by (Name):	Wagner, Michael C	** Actual Posted Limits **	
Deck:	5 FAIR CONDITION -	MINOR SECTION LOSS, CRACKS	Insp by (Name):	Wagner, Michael C.	Single Unit Vehicles: Tons	
Superstructure:	5 FAIR CONDITION -	MINOR SECTION LOSS, CRACKS	Utilities Attached:	N N/A	Combination Type 3S-1: Tons	
Substructure:	8 VERY GOOD COND	ITION - NO PROBLEMS NOTED		N N/A	Combination Type 3S-2: Tons	
Culvert:	N NOT APPLICABLE			N N/A	One Truck At A Time: 0	
Channel and Protection:	7 GOOD CONDITION	- SOME MINOR PROBLEMS	Deck Wearing Surf:	A BARE DECK NO OVRLA	Y Last Paint Type:	
Structural Evaluation:	5 BETTER THAN ADE	QUATE TO BE LEFT IN PLACE	Deck Membrane:	F NONE		
Deck Geometry:	4 MINIMUM ADEQUA	CY TO BE LEFT IN PLACE	Deck Protection:	J NONE		
Underclearance-Vert/Lat.:	N NOT APPLICABLE		Total Deck Thick:	17.0	i ii	
Waterway Adequacy:	9 SUPERIOR TO PRE	SENT DESIRABLE CRITERIA	Last Paint Date:			
Approach Roadway Align:	8 EQUAL TO PRESEN	IT DESIRABLE CRITERIA	Inspection Remarks:			
Bridge Railing Appraisal:	2 Doesn't Meet Standa	ırds	1) Two longitudinal cracks in the 2nd beam from the South (W. Span) along each edge go the			
Approach Guardrail: 111 Does Not Exist Does Not Exist Does Not Exist Does Not Exist entire length of the beams.2) Several beams have large areas of de lamination's that have not been repaired on the top surface of the beams. And s						
Pier Navig Protection:	N N/A		been repaired on the t	op surface of the beams. And s		
Temperature: Inspected By: Inspection Remarks:	Inspection Method Inspected By:	I: Appraisal Rating				
	Sco	our Critical Information			Miscellaneous	
Rating: 5 CALCULATED	SCOUR ACCEPTABLE	Evaluation Method:	B Rational Analysis	Fra	cture Critical Members: No	
Analysis Date: 10/30/	1996	Analysis By:	CURTIS COOK	Mic	rofilm Data Recorded: No	
	Construction Info	ormation				
Year: 1980 O	riginal	Reconstructed				
Route:	Sta: 11+20.00	Sta:				
Section Nbr: 79-03107-0	00-BR					
Contract Nbr:						
Fed Aid Pr #: 000000000	00000					
Built By: 9 TOWNS	SHIP OR ROAD DISTRICT					
		Proposed	mprovement			
Cost E	Estimate Year:	Length:		*	** Costs in Dollars ***	
Туре о	of Work:			Bridge C		
Done				Roadway		
Rema	rks:			Total Pro	ject Cost:	

PLANS FOR PROPOSED BRIDGE CONSTRUCTION

TOWNSHIP BRIDGE PROGRAM (FY-80)

OGLE COUNTY

SECTION 79-03107-00-BR BYRON ROAD DISTRICT

1980

NET LENGTH 700 FEET = 0.1326 MILES

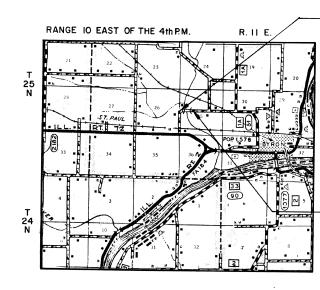
INDEX OF SHEETS

1	COVER SHEET
2	PLAN AND PROFILE
3-4	CROSS SECTIONS
5	GENERAL PLAN AND ELEVATION
6	DECK BEAM DETAILS
7	STEEL RAILING TYPE S
8	ABUTMENT DETAILS
9	PIER DETAILS
10	PILE DETAILS
	and a second

Inserted in Proposa

Std. 2113-1 Std. 2298-4 Std. 2299-7 BLR 21

TRI-CITY BLUE, ARKWRIGH



LOCATION MAP

SECTION 79-03107-00-BR BEGINS AT STATION 8+00

SECTION INCLUDES A THREE SPAN (3 AT 36') PRECAST PRESTRESSED CONCRETE DECK BEAM (17") BRIDGE ON CONCRETE PILE BENT ABUTMENTS AND PIERS WITH APPROACH ROADWAY WORK

SECTION 79-03107-00-BR ENDS AT STATION 15+00



SUMMARY OF QUANTITIES

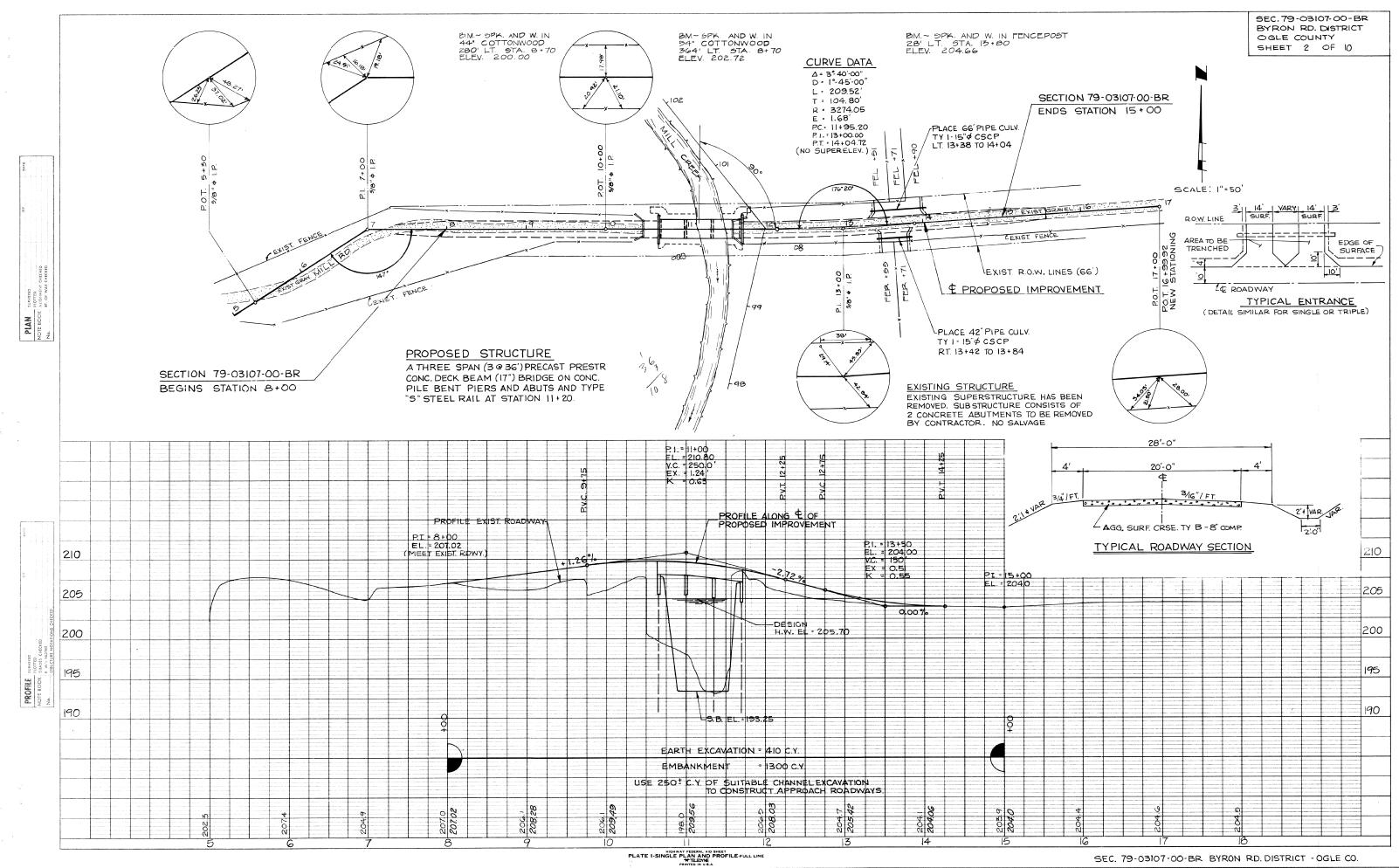
QUANTITY	UNIT	ITEM
410	CU YD	EARTH EXCAVATION
300	CU YD	CHANNEL EXCAVATION
1300	CU YD	EMBANKMENT
820	TON	AGGREGATE SURFACE COURSE, TYPE B
108	LIN. FT	PIPE CULVEFTS, TYPE 1, 15" (CSCP)
1	EACH	REMOVAL OF EXISTING SUBSTRUCTURES
40	CU YD	STRUCTURE EXCAVATION
24.6	CU YD	CLASS X CONCRETE
2592	SQ FT	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)
2620	POUND	REINFORCEMENT BARS
216	LIN FT	STEEL RAILING, TYPE S
602	LIN FT	FURNISHING CONCRETE PILES
602	LIN FT	DRIVING CONCRETE PILES
- 2	EACH	TEST PILES (CONCRETE)
364	SQ YD	FABRIC FORMED CONCRETE REVETMENT MAT
1	EACH	NAME PLATES

finch COUNTY HIGHWAY SUPERINTENDENT

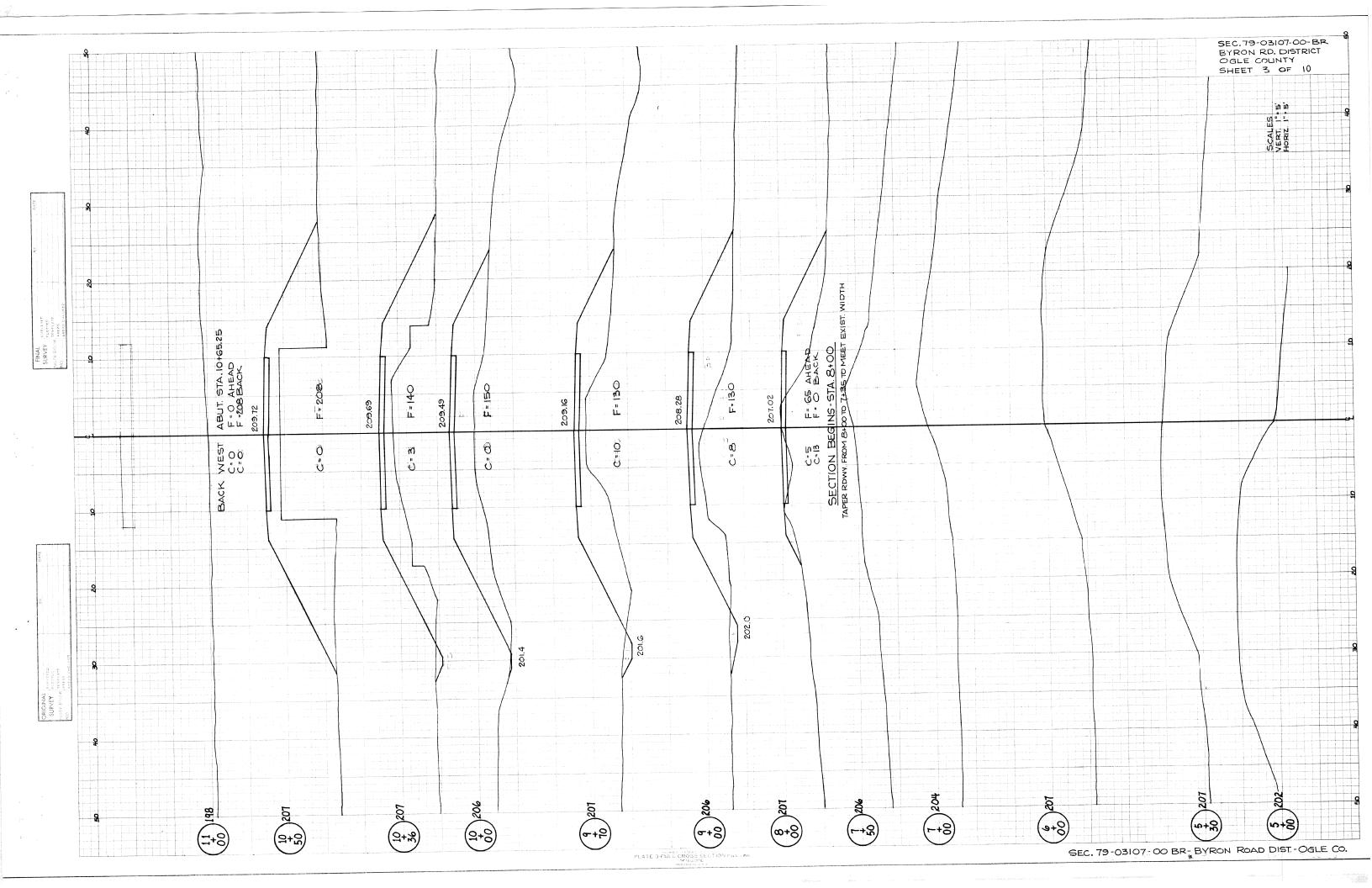


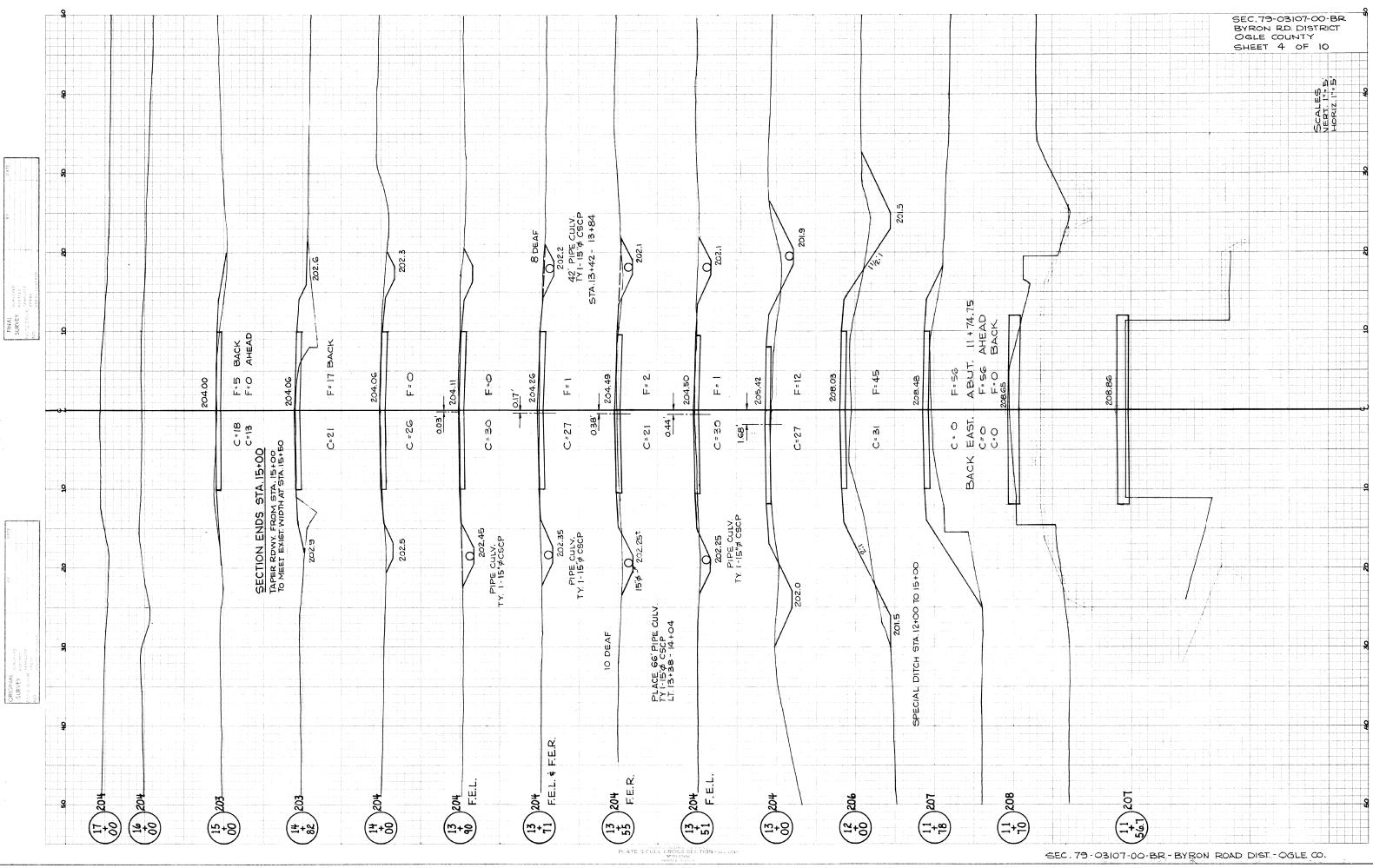
Welling iluleo

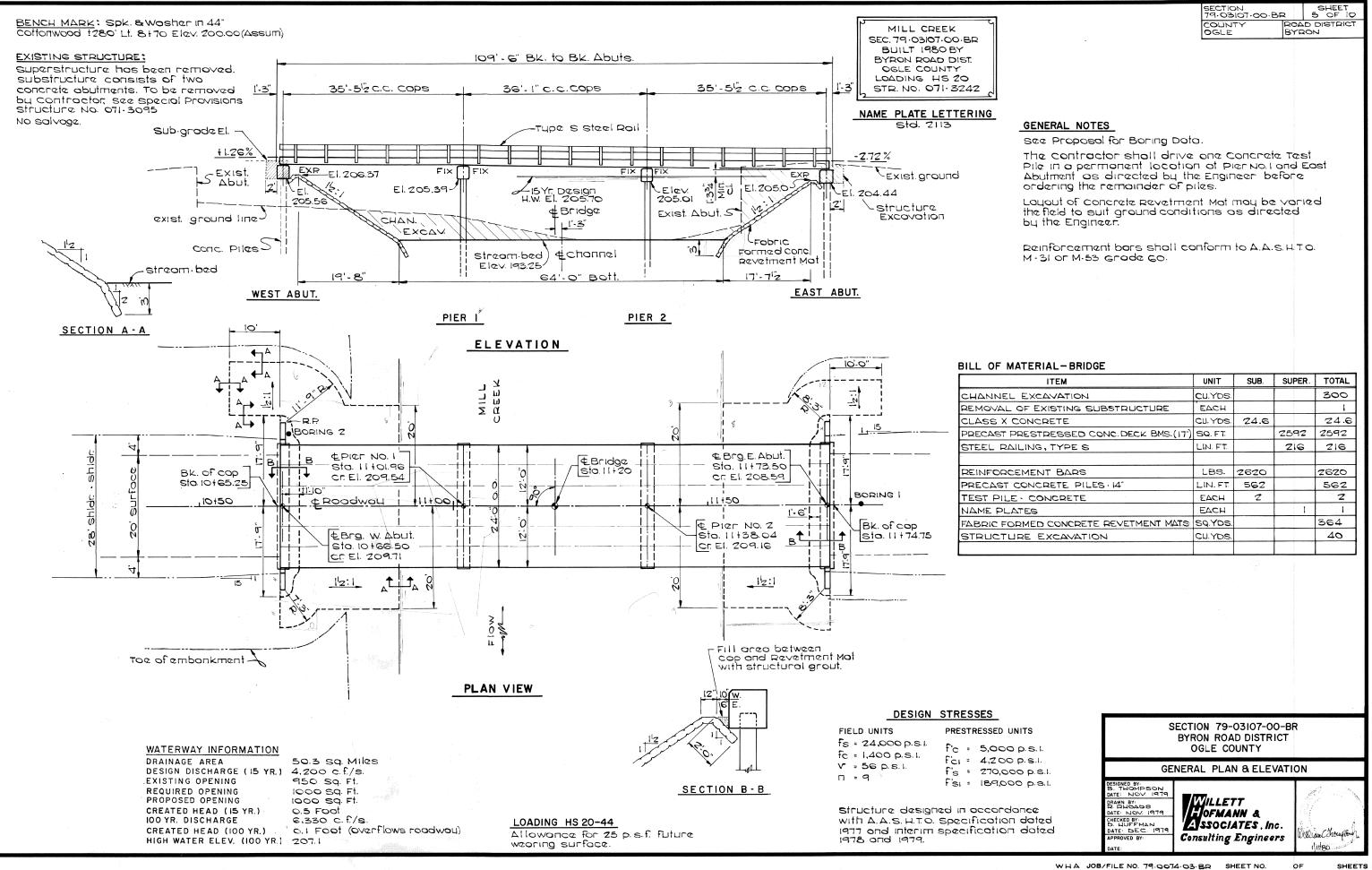
SEC. 79.03107.00.BR BYRON ROAD DIST. OGLE CO.



40-01/07/07/4000/07/444

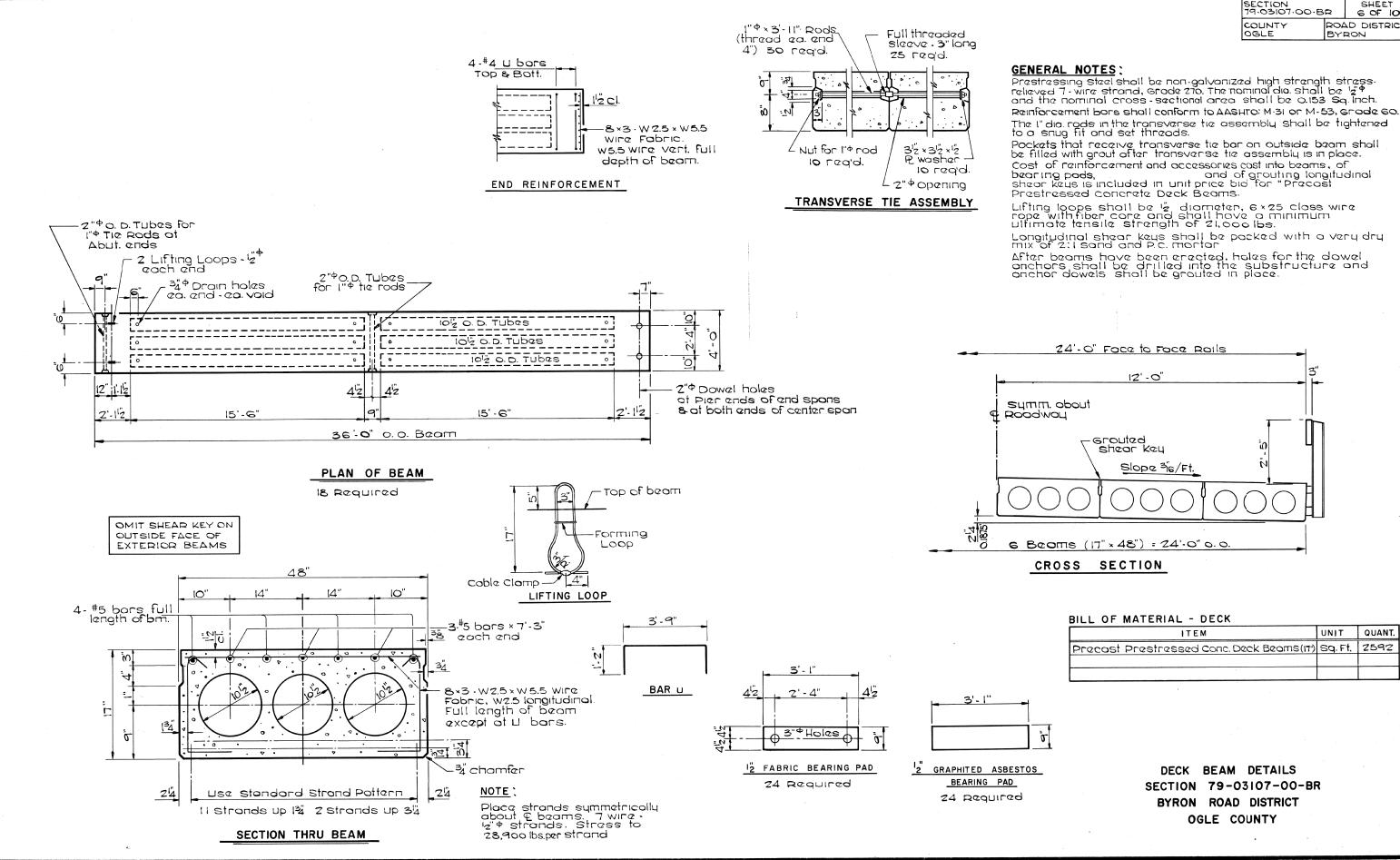






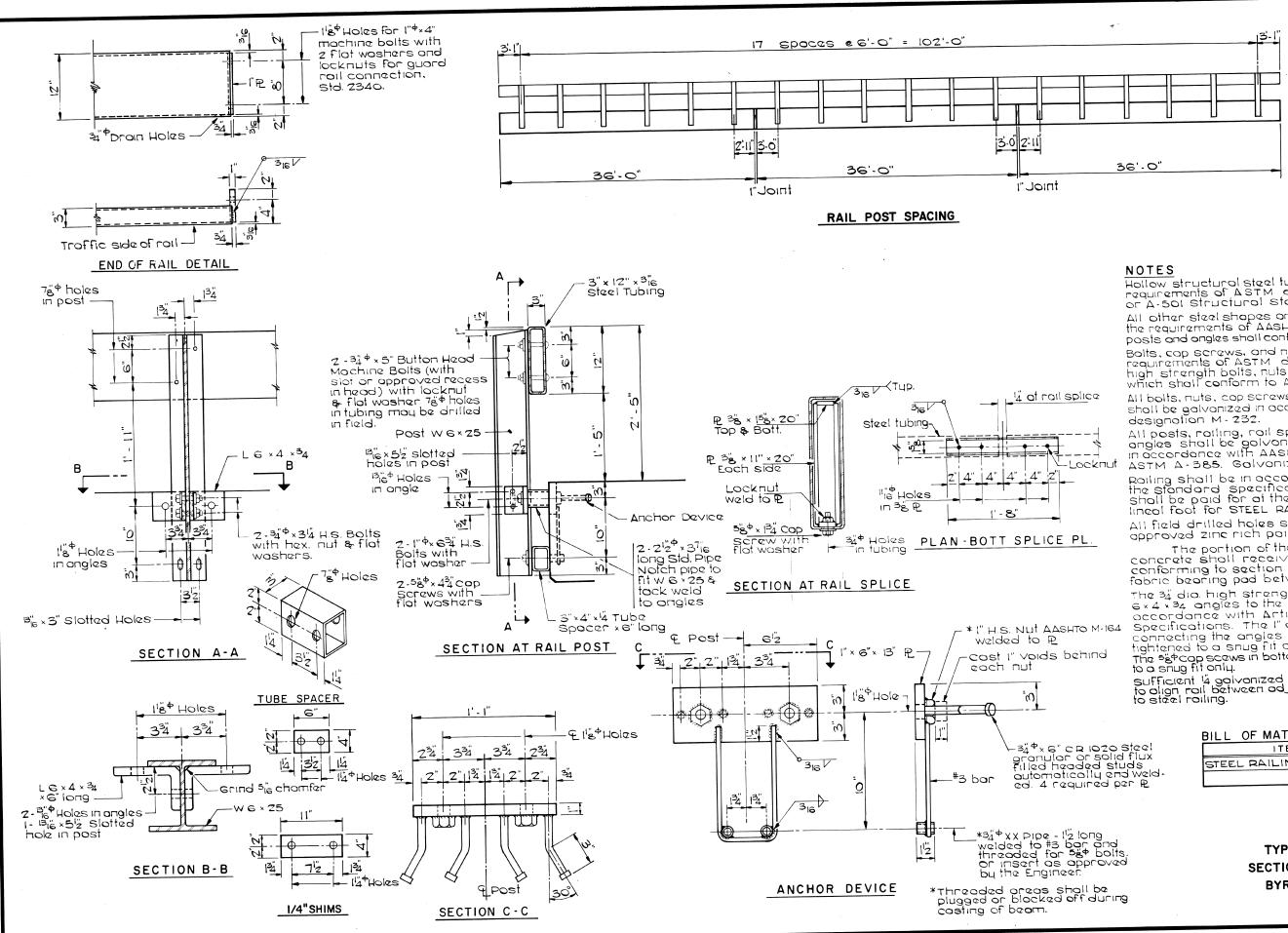
TRI-CITY BLUE #6203W

ITEM	UNIT	SUB.	SUPER.	TOTAL
JEL EXCAVATION	CU.YDS.			300
AL OF EXISTING SUBSTRUCTURE	EACH			1
X CONCRETE	CU. YDS.	24.6		24.6
T PRESTRESSED CONC. DECK BMS. (17")	SQ. FT.		2592	2592
RAILING, TYPE S	LIN. FT.		216	216
RCEMENT BARS	LBS.	2620		2620
ST CONCRETE PILES . 14"	LIN. FT	562		562
ILE - CONCRETE	EACH	Z		Z
PLATES	HDAB		1	$\mathbb{P}^{(1)}$
FORMED CONCRETE REVETMENT MATS	SQ.YDS.			364
TURE EXCAVATION	CU.YDS.			40
			-	



TRI-CITY BLUE, IMPERIAL

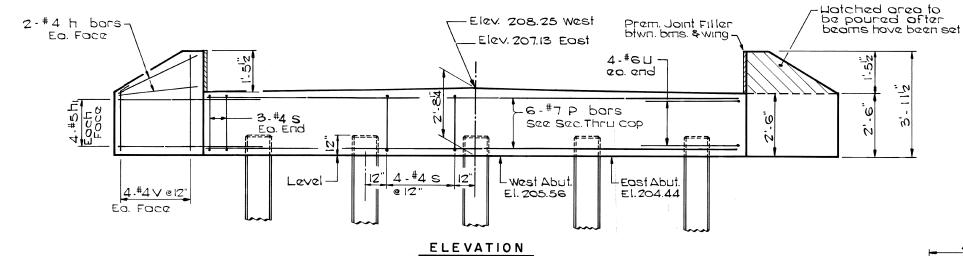
SECTION	SHEET			
79.03107.00.B	G OF IO			
				RICT

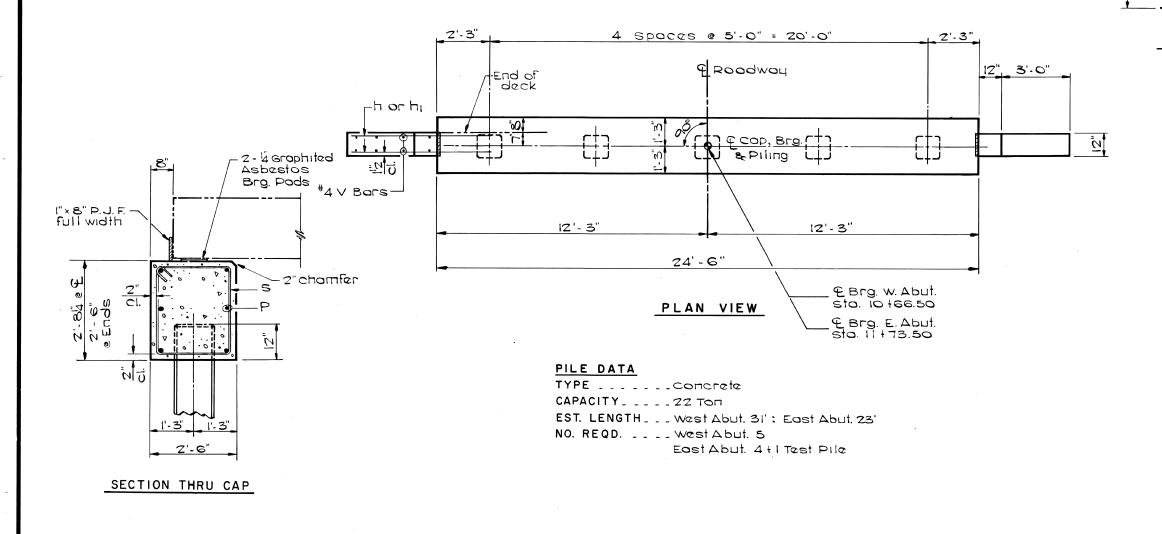


SECTION	SHEET		
19.03107.00.BF	7 OF 10		
		YRON	

Hollow structural steel tubing shall conform to the requirements of ASTM designation A-500 Grade B or A-501 Structural steel Tubing All other steel shopes and plates shall conform to the requirements of AASHTO Designation M-183 except posts and angles shall conform to AASHTO M-223 Grade 50. Bolts, cop 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 AASHTO M. 164. All bolts, nuts, cap screws, washer and lock washers shall be galvanized in accordance with AASHTO All posts, rolling, roll splices, onchor devices and angles shall be galvanized ofter shap fabrication in accordance with AASHTO, designation M-111 and ASTM A-385. Golvonized roll shall not be pointed Roiling 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 lineol foot for STEEL RAILING, TYPE S. All field drilled holes shall be cooled with on approved zine rich point before crection. The portion of the tube spacer in contact with concrete shall receive two coats of asphalt paint conforming to section 714.08 Type B or place is fabric bearing pad between the spacer & concrete. The 34 dia high strength bolts used to connect the $6 \times 4 \times 34$ angles to the post shall be tightened in accordance with Article 507.04 (g) (3) of the standard Specifications. The 1" dia high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional is turn. The 584 cop scews in bottom of posts shall be lightened Sufficient 14 golvonized steel shims sholl be provided to olign rail between adjacent spans. Cost incidental to steel railing. BILL OF MATERIAL UNIT QUANT. ITEM LIN. FT. 216 STEEL RAILING, TYPE S

TYPE S STEEL RAILING SECTION 79-03107-00-BR BYRON ROAD DISTRICT OGLE COUNTY





.

TRI-CITY BLUE, ARKWRIGHT the there we are an a

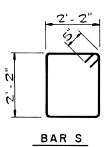
.

SECTION	SHEET		
79-03107-00-1	8 OF 10		
	ROA BYF		ISTRICT



BAR U

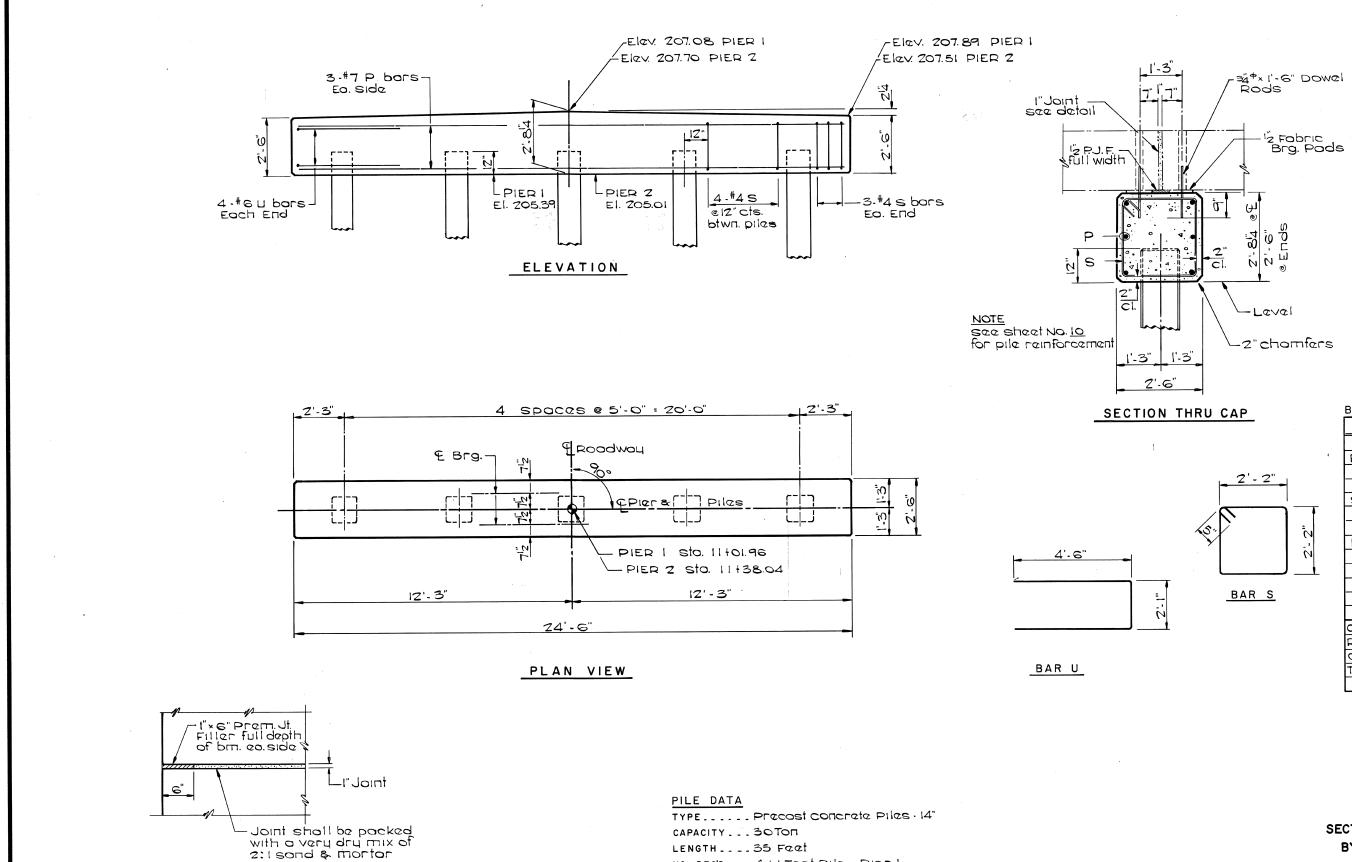
'n



BILL OF MATERIAL - 2 ABUTS.

DILL			AL C	ADUIS
BAR	NO.	SIZE	LENGTH	SHAPE
h	16	#4	4'-0"	
h,	32	#5	7'.0"	
Р	12	#7	24'-0"	
S	44	#4	9'-6"	3
U	16	#6	11.1"	
\vee	32	#4	3'-6"	
class	13.3			
Reinfo	1490			
COLCL	247			
Test F	1			

ABUTMENT DETAILS SECTION 79-03107-00-BR BYRON ROAD DISTRICT OGLE COUNTY



DECK JOINT DETAIL

NO. REQD. __ 4 + 1 Tast Pile . Pier 1 5. Pier 2

SECTION 79.03107.00.BR			OF	
COUNTY OGLE	ROAD DISTRICT			

BILL OF MATERIAL -2 PIERS

BAR	NO.	SIZE	LENGTH	SHAPE
Ρ	12	#7	24'-0"	
4				
S	44	#4	9'-6"	2
·				
U	16	#6	11'-1"	
closs x concrete Cu.Yds.			11.3	
Reinforcement Bors Lb.			1130	
Concrete Piles Lin. Ft.			315	
Test Piles (Concrete) EO.			1	

PIER DETAILS SECTION 79-03107-00-BR BYRON ROAD DISTRICT OGLE COUNTY

