

Inspection Report for B-03-015

USH 53 NB over CARLSON SCHOOL DRIVE Jun 08,2017



Туре	Prior	Frequency (mos)	Performed
Routine	06-25-15	24	X
Interim	02-25-13	0	
SIA Review	06-13-13	48	X

Latitude 45°13'16.59"N Longitude 91°34'51.25"W Owner STATE HIGHWAY DEPT
Maintainer STATE HIGHWAY DEPT

Time Log		Team members
Hours	Minutes	wjk
1	15	

Name	Number	Signature	Date
Inspector		William / Lovaleski	
Kovaleski, William J	8007	E-signed by Bill(dotwjk)	09-06-17

page 2

Identification & Location

Feature On: USH 53 NB	Section Town Range: S26 T32N R10W	Structure Number:
Feature Under: CARLSON SCHOOL DRIVE	County: BARRON	B-03-015
Location 1.5M N JCT CTH M TO E	Municipality: DOVRE	Structure Name:

Geometry Traffic

measurements in feet, except where noted			_	Lanes	ADT	ADT year	Traffic Pattern
Approach Roadway Width: 40	Bridge Roadway Width: 40.0	Total Length: 147.2	On	2	5550	2014	ONE WAY TRAFFIC
Approach Pavement Width: 24	Deck Width: 43.8	Deck Area (sq ft): 6447	Under	2	3220	1988	TWO WAY TRAFFIC

Capacity Load Rating

Inventory rating: HS18	Overburden depth (in): 2.0	Last rating date: 06-18-13	Controlling: SLAB Positive Moment
Operating rating: HS31	Deck surface material: LOW SLUMP CONCRETE	Re-rate for capacity (Y/N):	Control location: 0.6 SPAN 1
Posting:	Re-rate notes:		

Hydraulic Classification

	Scour Critical Code(113):	Q100 (ft3/sec):	
	(N) NO WATERWAY	0	
ı	High water elevation (ft):	Velocity (ft/sec):	Sufficiency #:
	0.0	0.0	93.8

Span(s)

Span #	Material	Configuration	Depth (in)	Length (ft)	Main
1	CONT CONCRETE	HAUNCHED SLAB		39.5	
2	CONT CONCRETE	HAUNCHED SLAB		67.0	Υ
3	CONT CONCRETE	HAUNCHED SLAB		38.0	

Expansion joint(s) Temperature: File: New:

Clearance

Item	File Measurement (ft)	File Date	New Measurement (ft)
Highway Min Vertical Under Cardinal	14.35	07-Jun-2007	
Highway Min Vertical Under Non-Cardinal			
Horizontal Under Cardinal	55.5		
Horizontal Under Non-Cardinal			
Highway Min Vertical On Cardinal			
Horizontal On Cardinal			

Special Components

Component	Year	Work Performed	Note
DECK - IOWA MIX	1989	OVERLAY - CONCRETE	

Construction History

Year	Work Performed	FOS id
1989	OVERLAY - CONCRETE	0003-84-01
1972	NEW STRUCTURE	1196-06-71

page 3 Structure No.:B-03-015

Maintenance Items History

Item	Recommended by	Status	Status change	Year completed
Misc - Wash Bridge	Kurtz, William G (8008)	REJECTED	09/01/17	
Power wash structure to remove swallov	v nests.			
Deck - Patching	Bjorklund, Allan M (8003)	COMPLETE	01/17/13	
Approx. 40 sf mainly at joints.	1	'		
Deck - Patching	Harrington, Daniel J (8004)	COMPLETE	01/17/13	
approx 16 sq ft of deck patching				
Deck - Patching	Harrington, Daniel J (8004)	COMPLETE	01/17/13	
approx 20 sf. various spalls.				

Maintenance Items

manitoriarioo itomo				
Item	Priority	Recommended by	Status	Status change
Deck - Surface Repair Spalls	HIGH	Kurtz, William G (8008)	IDENTIFIED	07/02/15
Repair SPL in Wearing Surface (103SF).				
Deal Dealer	111011	N () () () () () () () () () (IDENTIFIED I	07/00/45
Deck - Patching	HIGH	Kurtz, William G (8008)	IDENTIFIED	07/02/15
Repair SPL in Reinforced Concrete Deck (102SF	 	n Reinforced Concrete Deck (5SF)		
Repair of E in Reinforced Concrete Deck (1020)). Repair Ortici	Tricellioreed Concrete Deck (301)	•	
Deck - Repair Railing	MEDIUM	Kurtz, William G (8008)	IDENTIFIED	07/02/15
		1		
Repair SPL in RAILs (22LF).				
O Later to the Otto West	MEDIUM	N () () () () () () () () () (IDENTIFIED I	07/00/45
Substructure - Other Work	MEDIUM	Kurtz, William G (8008)	IDENTIFIED	07/02/15
Seal Columns.				
Sear Columns.				

Elements

						Quantity in Cor	ndition State	
nk Elemer	nt Defect	Description	UOM	Total	1	2	3	4
⟨ 38	Reinforced Concrete Slab		SF	6,447	6,235	207	5	0
` 30								
		Delamination - Spall - Patched Area Faces: few small impact edge spalls w no exp	SF		0	136	5	0
	1080	efflorescence north/adjacent to Pier 2 on west fefflorescence (begin delam) - Span 1 = 8ftx8ft, \$ East edge west bound no rebar showing west 6/25/2015 SP1 C/L SPL CS3 64SF. 6/25/2015 SP2 SPL CS3 32SF W IMPACT SPL C	Span 2 = edge eas	= 2x4ftx8ft stbound abo	areas. out 4" reba	ır showing	rioration v	v/ It
		Cracking (RC)	SF		0	71	0	0
	4400	Faces: multiple fine to hrline vert cracks at pie	r locatio	ons and pa	rapet join	ts some w l	It to med	
	1130	efflorescence. Underside: Hrline longitudinal a Cols 1 & 2. Span 3 full span fine longitudinal cr	pprox. I ack w/ I	nalf span o	fflorescer	enas into na ice.	alf of SP2	btwn
	1130	efflorescence. Underside: Hrline longitudinal a Cols 1 & 2. Span 3 full span fine longitudinal cr	pprox. h ack w/ l	half span of t to med e	fflorescer	6,282	103	btwn
8514		Cols 1 & 2. Span 3 full span fine longitudinal cr	SF	6,447	fflorescer 62	6,282	103	0
8514	1	Cols 1 & 2. Span 3 full span fine longitudinal cr Concrete Overlay More extensive cracking in overlay. Worse 07 larg spalls in deck at compression joints 20 SF 2011. Debonding/Spall/Patched Area/Pothole	SF ge areas	6,447 of delam fo	62 ound with 0	6,282 chaining app	103 prox 16 sq	0 ft of
8514		Cols 1 & 2. Span 3 full span fine longitudinal cr Concrete Overlay More extensive cracking in overlay. Worse 07 largespalls in deck at compression joints 20 SF 2011.	SF ge areas	6,447 of delam fo	62 ound with 0	6,282 chaining app	103 prox 16 sq	0 ft of
8514	1	Cols 1 & 2. Span 3 full span fine longitudinal cr Concrete Overlay More extensive cracking in overlay. Worse 07 larg spalls in deck at compression joints 20 SF 2011. Debonding/Spall/Patched Area/Pothole	SF ge areas	6,447 of delam fo	62 ound with 0	6,282 chaining app	103 prox 16 sq	0 ft of

page 4 Structure No.: **B-03-015**

5 1 pelow haunch. 0 1 parily at S and I und.	2	0 0 2 worse).
0 1 arily at S and I und.	2	
arily at S and I und.		
und.	E faces (Col 2	worse).
173 11		
•	3	0
	•	
0 2	2	0
•	•	
0 9	1	0
Bay 2. NORTH	l: fine to hrlin	e vert
95 0	0	0
0 6	0	0
0 6	0	0
42 230	22	0
•		
0 0	22	0
rse. 8ft top ed	dge spall in N	E.
0 230	0	0
	,	
4 0	0	0
	0 6 42 230 0 0 0 orse. 8ft top e	0 6 0 42 230 22 0 0 22 orse. 8ft top edge spall in N

Assessments

							Quantity in C	ondition State	
Chk	Element	Defect	Description	UOM	Total	1	2	3	4
			Drainage - Approach	EA	4	4	0	0	0
Х	9001		NE drain has hole in back of catch basin. clean ar	nd clear	Repaired 2	2010 with p	aving proje	ct. Clear 2	013.
	0000		Signs - Object Markers	EA	2	2	0	0	0
Χ	9030								
			Slope Protection- Crushed Aggregate with Bit.	EA	2	2	0	0	0
Χ	9043		Rocks tightly adhered. Vegetation and bleach	ing at e	dges.				
			Approach Roadway - Concrete (non-structural)	EA	2	0	2	0	0
Χ	9322		both cracked and broken and filled w/ asphalt		•		•		•
			Decorative Rail	EΑ	2	0	2	0	0
Х	9335		Type J tubular rail on parapets. Missing section	n from	NE.				

NBI Ratings

•	File	New
Deck	4	6
Superstructure	6	6
Substructure	7	7
Culvert	N	N
Channel	N	N
Waterway	N	N

page 5 Structure No.: **B-03-015**

Structure Specific Notes

OLD: Overall, condition of structure is good, the deteriorated element for this structure is the superstructure/deck. This is a three span haunched slab with 7.4% delam - 1995. Approx 10 gals of epoxy was used to fill the extensive map cracking on this wearing surface. Record shows this as original deck built 1972. Should program for overlay. 359 crack @ CL span 3, approx 20LF.

- (99) Bearings should be wire brushed and painted. Deck extensively cracked with random/spider cracks. Otherwise in good condition.
- (01) Structure is in good overall condition. The surface of the deck and parapets being the only areas of concern. Deck has extensive map cracking and is beginning to spall.

Comments

Inspection Specific Notes

Inspector Site-Specific Safety Considerations

Structure Inspection Procedures

Walk-thru

Special Requirements

hk Hours

Cost

06-Sep-2017

page 6 Structure No.:B-03-015

Routine Document Comment/Description Col 2, Pier 1 - south face



page 7 Structure No.:B-03-015

Routine Document Comment/Description West face over Pier 2



page 8 Structure No.:B-03-015

Routine Document Comment/Description NE rail



STRUCTURE INVENTORY AND APPRAISAL FIELD REVIEW FORM

B-03-015 USH 53 NB over CARLSON SCHOOL DRIVE

			LOCATION							
(3) Municipality:	DOVR									
(16) Latitiude(° ' "):	45°13'	16.59	"N							
(17) Longitude(° ' "):	91°34'									
() = 0.19.10.00().	0101	01.20	**							
			TRAFFIC SERVICE							
(28A) Lanes On:	2									
(28B) Lanes Under:	2									
(102) Traffic Pattern On:		VEETO A	ONE WAY TRAFFIC TIMO WAY TRAFFIC							
(102) Traffic Pattern Under:	-NO TRAFFIC X-ONE WAY TRAFFIC -TWO WAY TRAFFIC -NO TRAFFIC -ONE WAY TRAFFIC X-TWO WAY TRAFFIC									
	-NO TRA	4FFIC -0	ONE WAY TRAFFIC A-TWO WAY TRAFFIC							
(19) Detour Length(mi):	I									
			GEOMETRY							
(49) Structure Length(ft):	147.2		GEOMETICI							
(50) Sidewalk Width(ft):	Left: 0	_		Diabte 0.0						
		.0		Right: 0.0						
(50) Curb Width(ft):	3.8									
(52) Culvert Barrel Length(ft):				T						
(34) Skew:	Angle(Direction: -RIGHT FORWARD X-LEFT FORWARD						
	Cardina	al		Non-Cardinal						
(51) Bridge Roadway Width(ft):	40.0			40.0						
(52) Deck Width(ft):	43.8			43.8						
Right Wingwall Length(ft):										
Left Wingwall Length(ft):										
(32) Approach Roadway Width(ft):	40			0						
. ,	Cardina	al Undo	er Clearance	Non-Cardinal Under Clearance						
(47) Minimum Horizontal(ft):	55.5									
(55) Minimum Right Lateral(ft):	12.2									
(56) Minimum Left Lateral(ft):	13.2									
(,	10.2									
			RAILING APPRAISAL							
(36A) Bridge Rail Adequacy:	-SUB-ST	FANDARI	X-STANDARD -NOT APPLICABLE							
(36B) Transition Adequacy:	X-SUB-STANDARD -STANDARD -NOT APPLICABLE									
(36C) Approach Guardrail Adequacy:	-SUB-STANDARD X-STANDARD -NOT APPLICABLE									
(36D) Guardrail Termination Adequacy:			X-STANDARD -NOT APPLICABLE							
Outer Rail:		Right								
Outer Rail.	LCIT	Kigiit	TYPE F (TWO SQUARE TUBES) - STEEL(8)							
			TYPE F (3 SQUARE TUBES) - STEEL(65)							
			TYPE F (4 SQUARE TUBES) - STEEL(72)							
			TYPE M-STEEL 3 SQUARE TUBES(93)							
			SLOPED FACE PARAPET LF(91)							
			SLOPED FACE PARAPET HF(92)							
			VERTICAL FACE PARAPET TYPE A(74)							
			TYPE W-THRIE BEAM(79)							
			TYPE H ON VERTICAL PARAPET(80)							
			TIMBER(38)							
	X	Х	OTHER(99) (Please specify)							
			Left: TYPE J (ALUMINUM) ON SLOPED PPT(4	(F)						
			Lett. TIFE 3 (ALOMINOM) ON SLOPED FFT(4	N)						
			Right: TYPE J (ALUMINUM) ON SLOPED PPT	Γ(45)						
Transition Type:		CONT G	UARD RAIL							
		NO APP	GRDRL							
		NO ATT	ACHMENT							
	5		7/8") BOLT (Please enter quantity)							
	-		1") BOLT (Please enter quantity)							
			(Please specify)							
		OTHER	(Flease specify)							
Approach Attachment Rail Note:		/= · · = ·								
Guardrail Termination Type:	X	. ,	ERGY ABSORBING TERMINAL/EAT							
			RN DOWN							
		(99) OTH	HER (Please specify)							
Guardrail Termination Note:	<u> </u>									

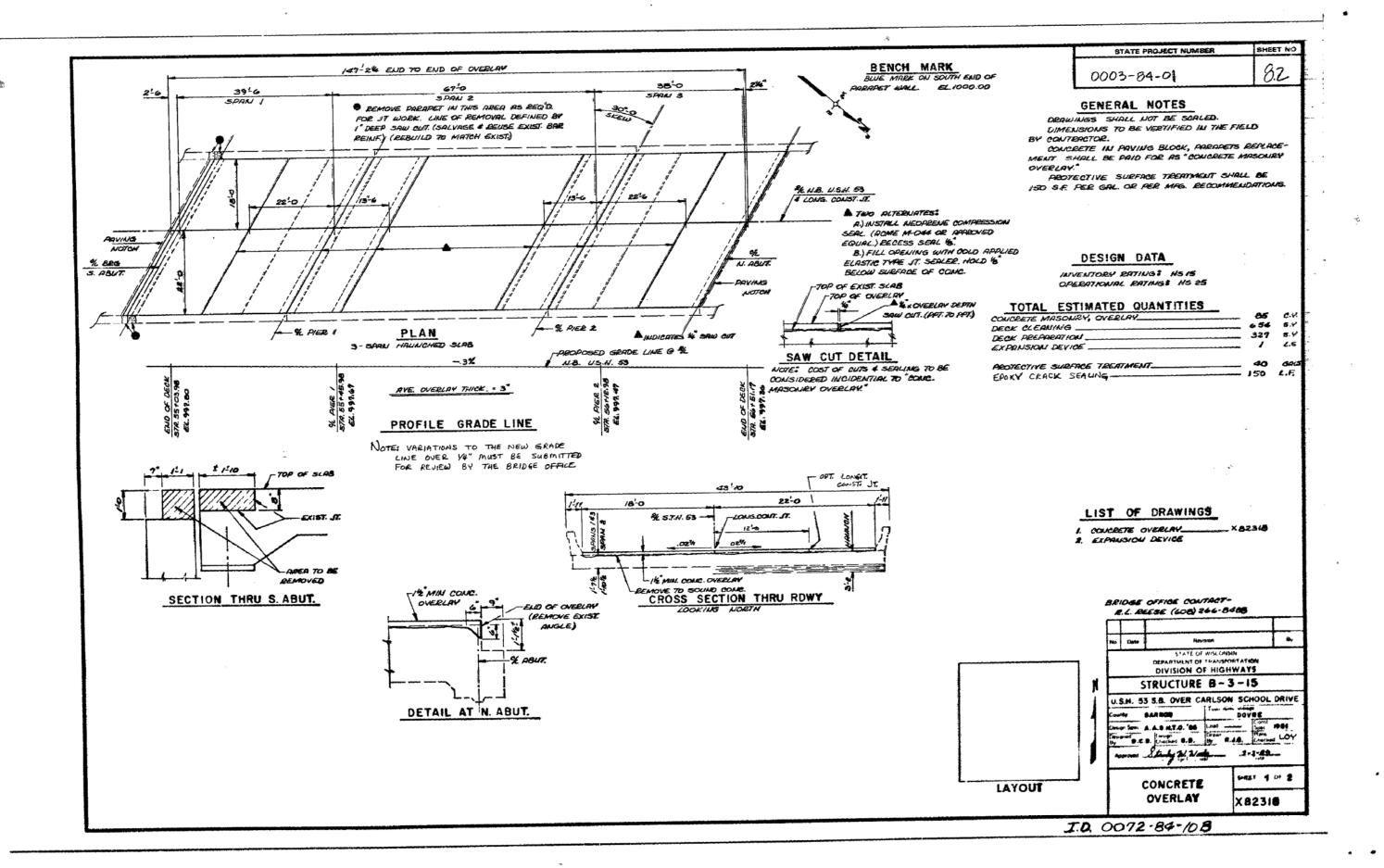
ROADWAY ALIGNMENT APPRAISAL

3 Intolerable- Substantial speed reduction

6 Fair- Minor speed reduction

X 8 Good- No speed reduction

(72) Approach Alignment Appraisal:



MIEY N	r curi	TE

- 2.2 Typical Sections and Details

Estimate of Quantitles

Miscellaneous Quantities

Right of Way Plat

- 6.2 Standard Detail Drawings

Computer Earthwork Data

Sheet No. 8 - 8.6 Structure Plans

Cross Sections

TOTAL SHEETS = 15

STATE OF WISCONSIN

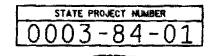
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

BRIDGE FLOOR REPAIR

STRUCTURE B-3-15 U.S.H. 53 S.B. OVER CARLSON SCHOOL DRIVE BRIDGE U.S.H. 53 BARRON COUNTY

STRUCTURE B-3-14 U.S.H. 53 N.B. OVER CARLSON SCHOOL DRIVE BRIDGE U.S.H. 53 BARRON COUNTY



STRUCTURE B-3-19 U.S.H. 53 N.B. OVER C.T.H. A BRIDGE U.S.H. 53 **BARRON COUNTY**

STATE PROJECT

0003-84-01



DESIGN DESIGNATION

A.D.T. A.D.T. D.H.V.

CONVENTIONAL SIGHS

COUNTY LINE COMBUSTIBLE FLUIDS COMPORATE LIMITS MANIMAN PROPERTY LINE UNDERGROUND UTILITIES ELECTRIC TELEPHONE SERVICE PEDESTAL NEW RIGHT OF WAY CABLE MARKER REFERENCE LINE POWER POLE SLOPE INTERCEPT TELEPHONE POLE RAILROADS MARSH OR ROCK PROFILE CLEAVERT IN PLACE

WOODED AREA



PROJECT 0003-84-01 STRUCTURE B-3-15

LAYOUT

TOTAL NET LENGTH OF CENTERLINE =

T.-33-N. DOVRE PROJECT 0003-84-01 STRUCTURE B-3-14

PROJECT 0003-84-01 STRUCTURE B-3-19

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION Designer E.C. Statutet Sperviour Halla C.S. Coordinater APPROVED:

FEDERAL PROJECT

CONTRACT

PROJECT

APPROVED: DESTRICT TRANSPORTATION DESECTOR

DATE STATE MADITEMAN BORDER FOR HE

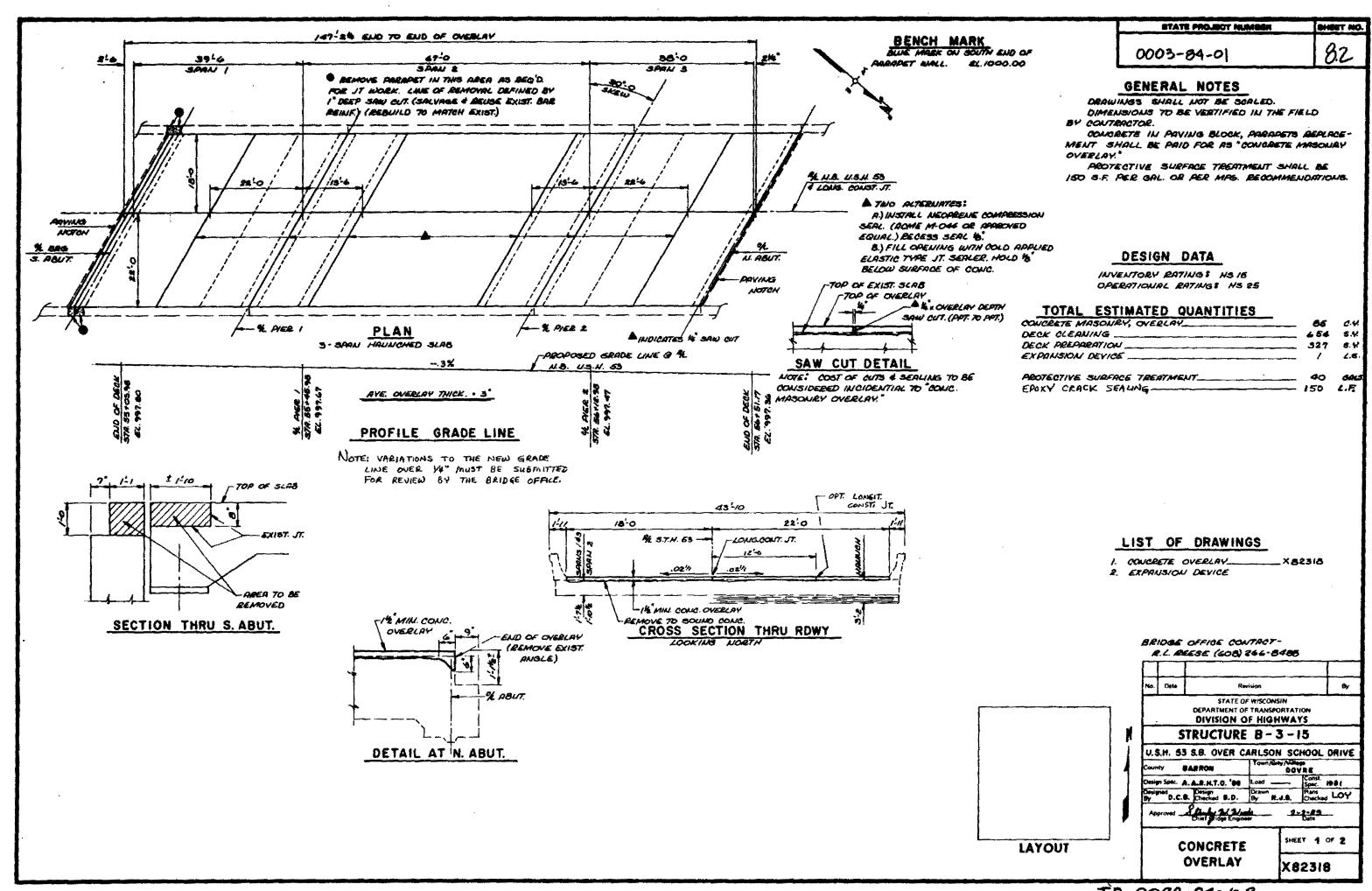
APPROVED:

WISDOT/CADOS SHEET 28

CULVERT REQUIRED

MICRO/00038401/TITLE.DON

CULVERT REQUIRED Groffiel



I.D. 0072-84-108



LEGEND

() NEOPRENE STRIP SEAL & STEEL EXTRUSIONS BRO. INDUSTRIES BS 300 A, D.S. BROWN HSA-300, STRUCTURAL ACCESSORIES SAR-30 SO, WATSON-BOWMAN & ACME S-300(A).

② STUDS % 4 x 6% LONG & 6" ALT. CTAS. WELD TO

EXTRUSION & BEND AS SHOWN AFTER WELDING.

3 SUPPORT ROO " WITH 2 NUTS AND WASHERS. THR'D. ONE END 4." AT SUPER & ABUT SIDE, GROUT THR'DED ROD INTO FIELD DRILLED HOLES IN BACKWALL & SLAB AS SHOWN. PLACE ONE PER BERRING (SPROED & 6'-6)

(A) THE DED ROD WITH MUT. TROK WELD MUT TO \$5:

FRBRICATE SUPPORT FROM S'x' BAR AS SHOWN OR EQUIVALENT, ONE PER BEARING (8'4) WELD TO #1. PROVIDE 18 HOLE FOR #3 & 1 HOLE FOR #4 (SHOP OR FIELD WELD)

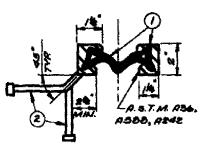
(A) BAR 1'x 16". BELID AS SHOWN. WELD TO #7. BLOCK OUT. (0)

ANCHOR STUDS \$ 7 x 6 LONG. WELD TO \$7 \$ \$9 AS SHOWN BEND TO CLEAR JOINT OPENING.

(9) BAR % x WIDTH REG'D. BEND AS SHOWN OUT TO CLEAR BLOCK OUT. PROVIDE HOLES FOR #11.

(A) PLATE TO X WIDTH REQ'D. BEND AS SHOWN. AROYIDE C'SOR HOLES FOR #11.

(1) W & C'SCK. STRINLESS STEEL BOLT & HER MERD MUT. WELD NUT TO #9. PROVIDE NUT WITH I DEEP PLASTIC CAP OVER NUT TO KEEP COME FROM ENTERING BOLT CAVITY.





TEMP. TABLE TEMR IS THE SHADED UNDER-SIDE DECK TEMP IN FANRENHEIT DEGREES.

OPEN ING

75MA

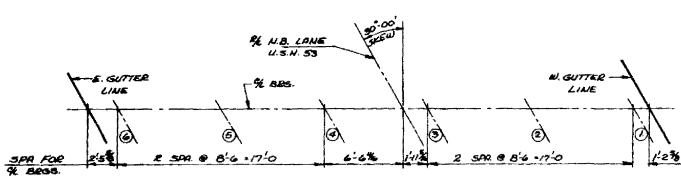
90* 60*

70

60" 50"

40

30*



SEE TEMP TABLE

SECTION THRU JOINT

NORMAL TO E/L OF BEG.

END OF

4 CONST. JT.

PRVING

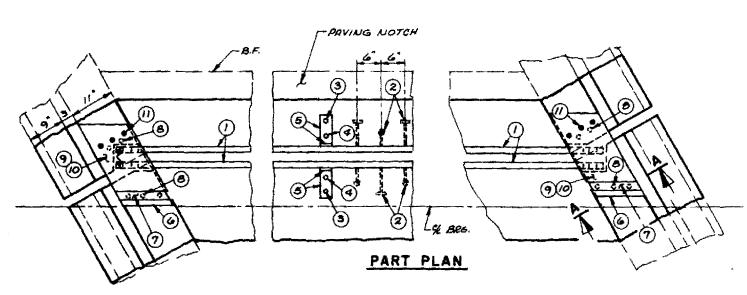
MOTCH

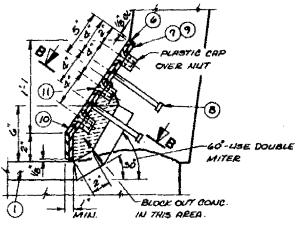
BRG. LAYOUT AT S. ABUT. (LOOKING SOUTH)

-70P OF OVERLAY

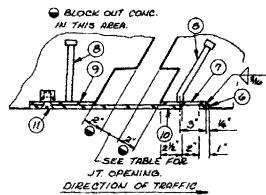
TOP OF SLAS

EXIST CONST.JT.





SECTION AA



SECTION BB

SEAL NOTES

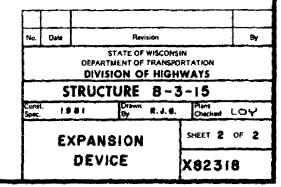
ONE FIELD SPLICE REQ'D. AT LONG. CONST. JT. IN EXTRUSIONS DETRILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING OF NEOPRENE SEAL PERMITTED.

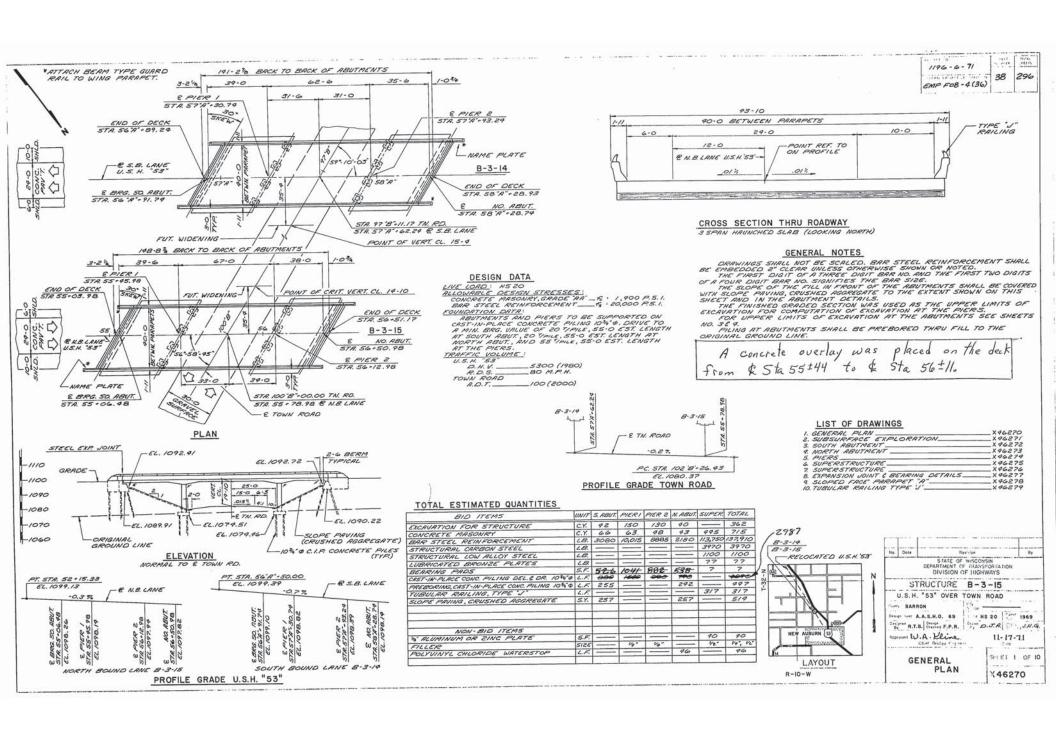
SAND BLAST CLEAN STEEL EXTRUSIONS PRIOR TO CONTING WITH LUBRICANT ADHESIVE FOR NEOPRENE SEAL.

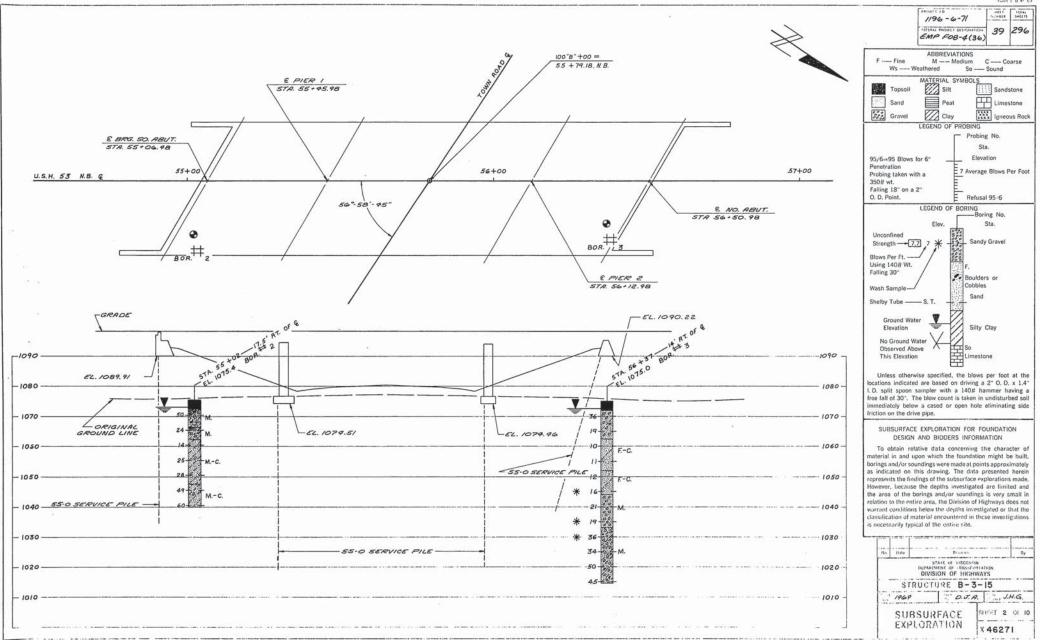
STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING STUDE . HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE."

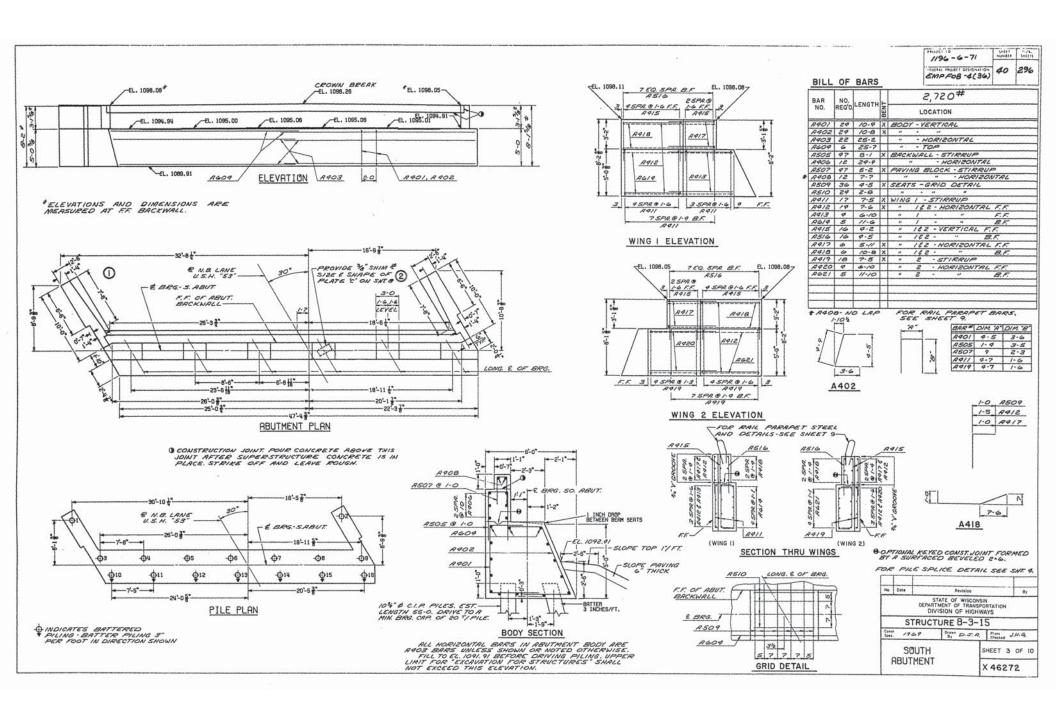
AFTER FABRICATION BUT BEFORE SHIPMENT STRAIGHTEN EXTRUSIONS SUCH THAT THEY ARE FREE FROM WARP, TWIST

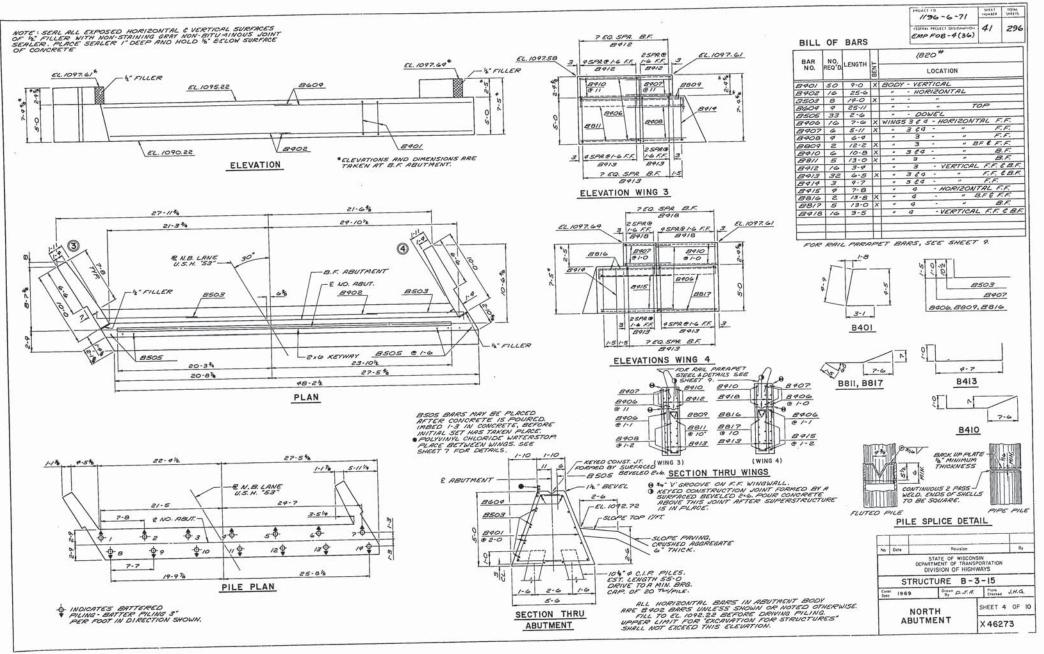
MANUF. SHALL FURNISH GLAND WITH TOP SURFACE LABELED.

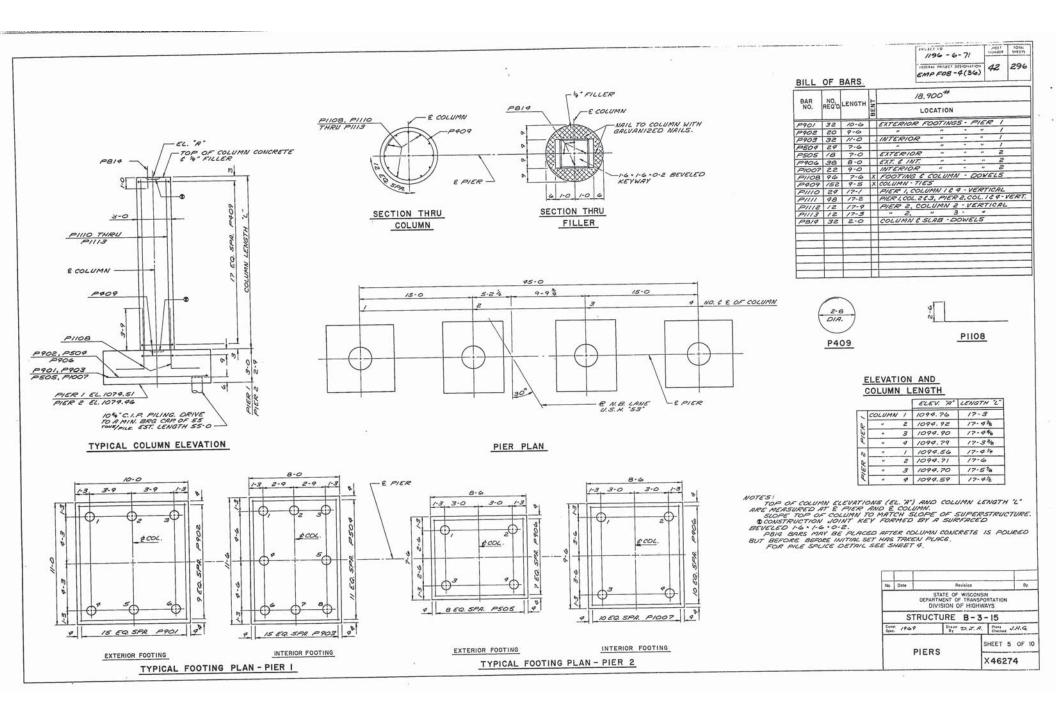




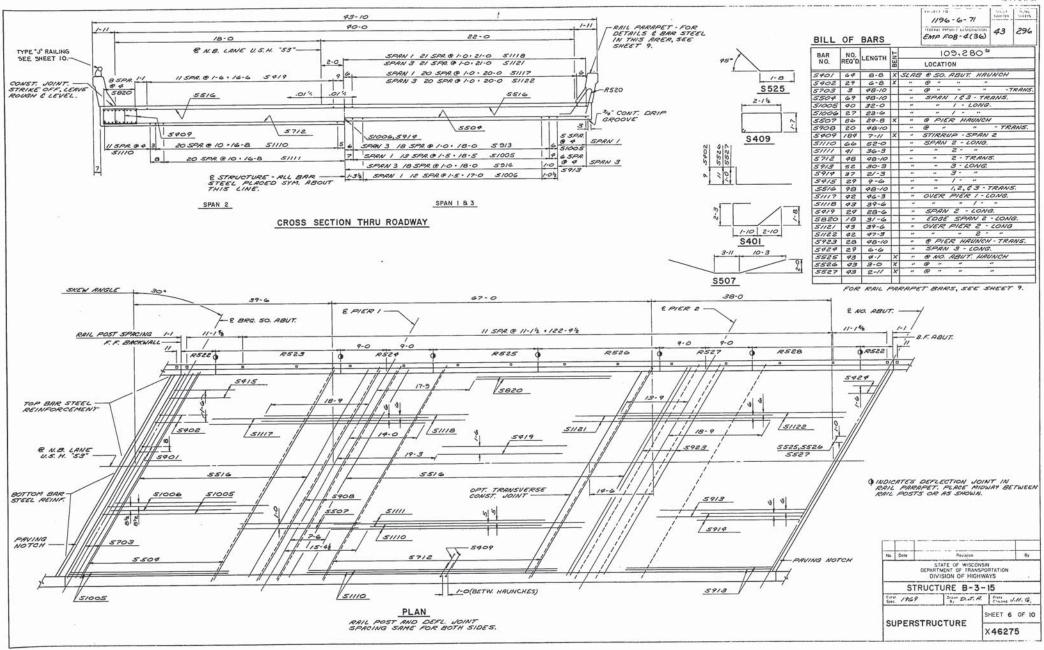


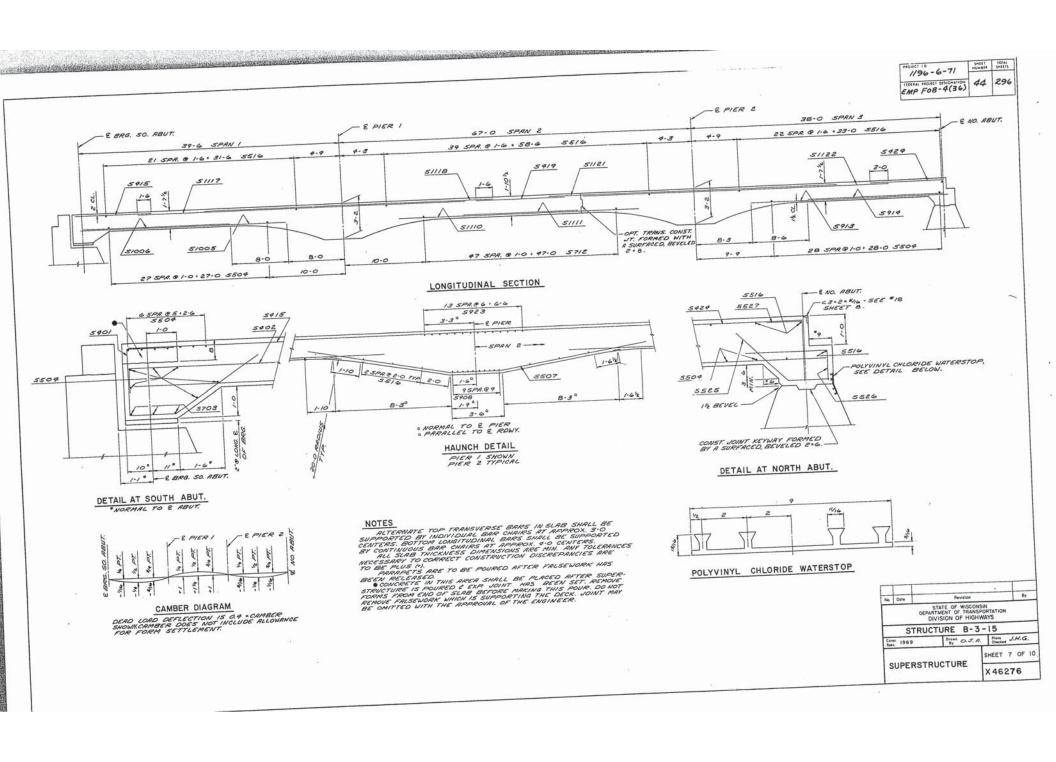


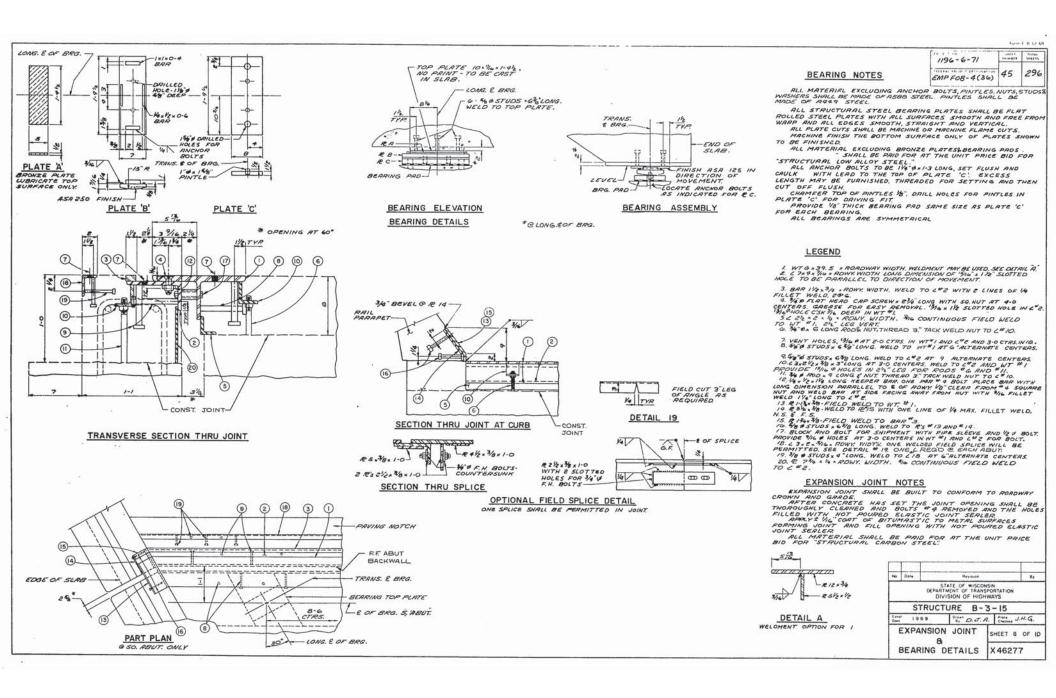


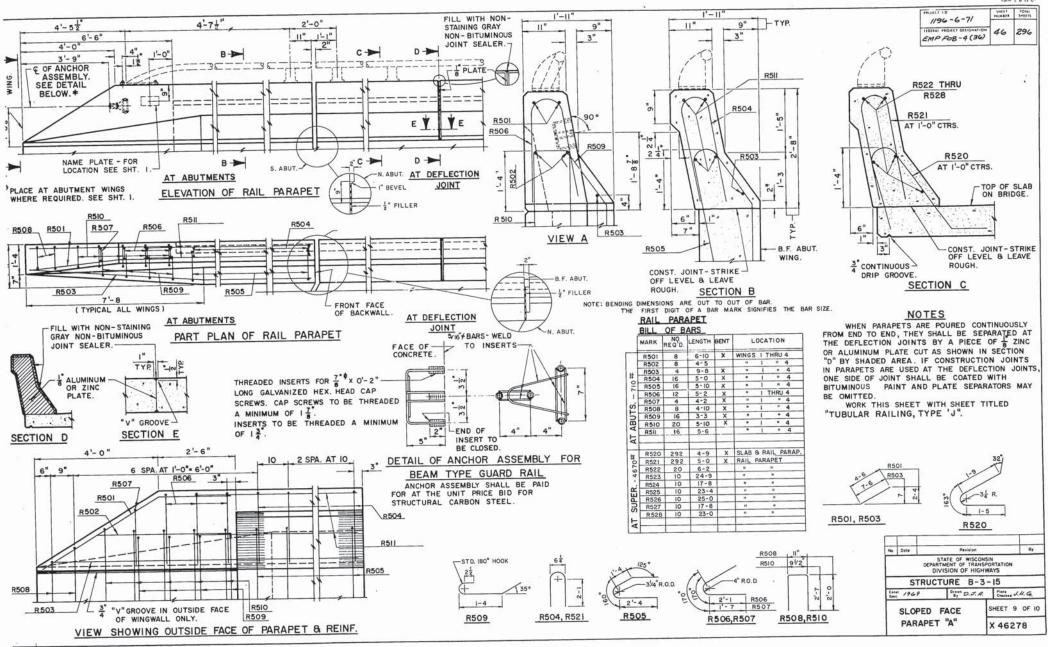


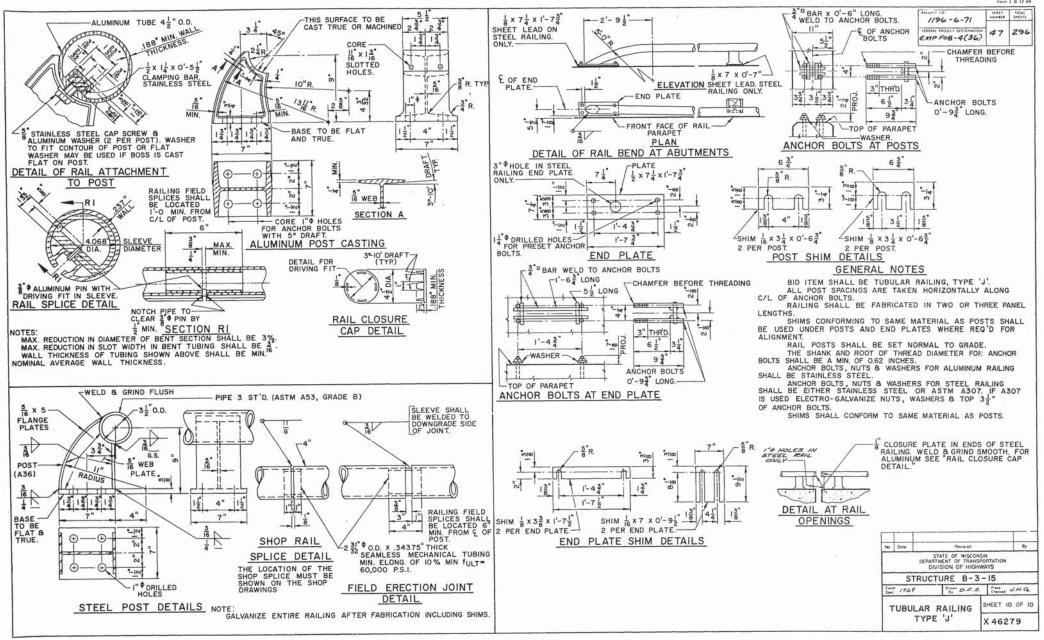








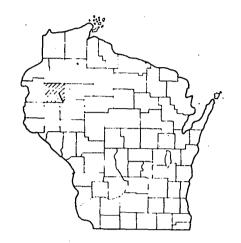




Index of Sheets

Sheet No. Sheet No. 2-2.10 Typical Cross Sections Sheet No. 3-3.2 Estimate of Quantities Sheet No. 3A-3I Miscellaneous Quantities Sheet No. 4-4.6 Right of Way Plat

Sheet No. 5-26 Plan and Profile Sta.0 + 18,72 to Sta. Sheet No.27 -27.15 Standard Details Sheet No. 28-107 Drainage Structures Sheet No. 108-296 Cross Sections



Design Designation

CONTROL OF ACCESS = FULL A. D. T. 1980 * 5300 A. D. T. 2000 D. H. V. = 1260 ³ 50−50 TRUCKS - IL3% ADT ≈ 80 M.P.H.

Conventional Sians

• • • • • • • • • • • • • • • • • • • •	an organi
tate Line	Culverts in Place
County Line	Culverts Required
ownship or Range Line	Drop Inlet
ection Line	Power Pole
lew Right of Way Line	Telephone or Telegraph Pole
Present Right of Way Line	Right of Way Markers
Woven	Right of Way Markers
Wire Fence Sarbed	Marsh
ot Line	Hedge
corporate or City Limits	Hedge
Property Line	اه
raveled Way or P.E.	Ground Elevation Datum Line
ailroads · · · · · · · · · · · · · · · · · · ·	. IX
tace or Survey line	Grade Flevation Dotum Line

STATE OF WISCONSIN

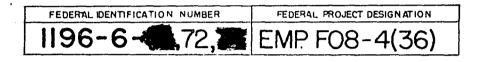
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

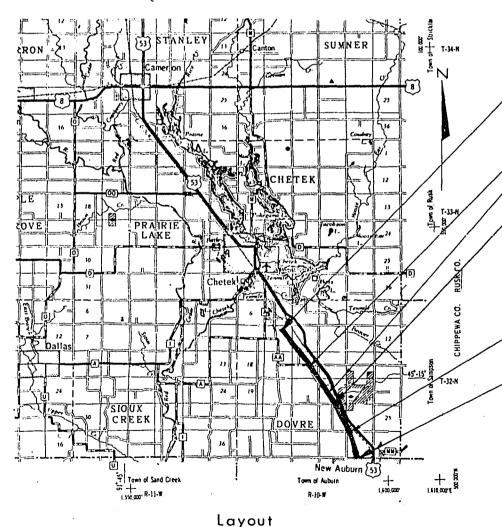
PLAN AND PROFILE OF PROPOSED NEW AUBURN - U.S.H. 8 ROAD

U.S.H. 53

BARRON COUNTY



Profile Hor. Lin.: 100 ft. Vert. Lin.: 10 ft. Cross Sections Hor. Lin.: 10 FT, Vert. Lin.: 10 FT,



Net Length of Centerline = 2.278 Mi. Contract 1

= 3.211- " = 5.489

END PROJECT 1196-6-76 / EMP. FO8-4(36)

STA. 290+00 N.B. R. * N = 40,942.678 * E = 2,066,583.314 APPROX.1200' S. Br.1430' W. OF N.E. COR., SEC.8, T-32-N, R-10-W

8-3-16 AND B-3-17 PROJECT 1196-6-72

END PROJECT 1196-6-71 (CONTRACT 1) BEGIN PROJECT 1196-6-76 (CONTRACT 3)

STA. 120 + 50 N.B. R.

* N = 26, 859.460

*E = 2,075,115.519 APPROX 400'S. B.3175 W. OF THE SW. 4 SEC. 27 T 33 N, R 10 W

B-3-14 AND B-3-15 PROJECT 1196-6-72

BEGIN PROJECT 1196-6-71 / EMP. FO8-4(36)

STA. 0 + 18.72 N.B. R. * N= 20,432.168 * E= 2,079,997.887

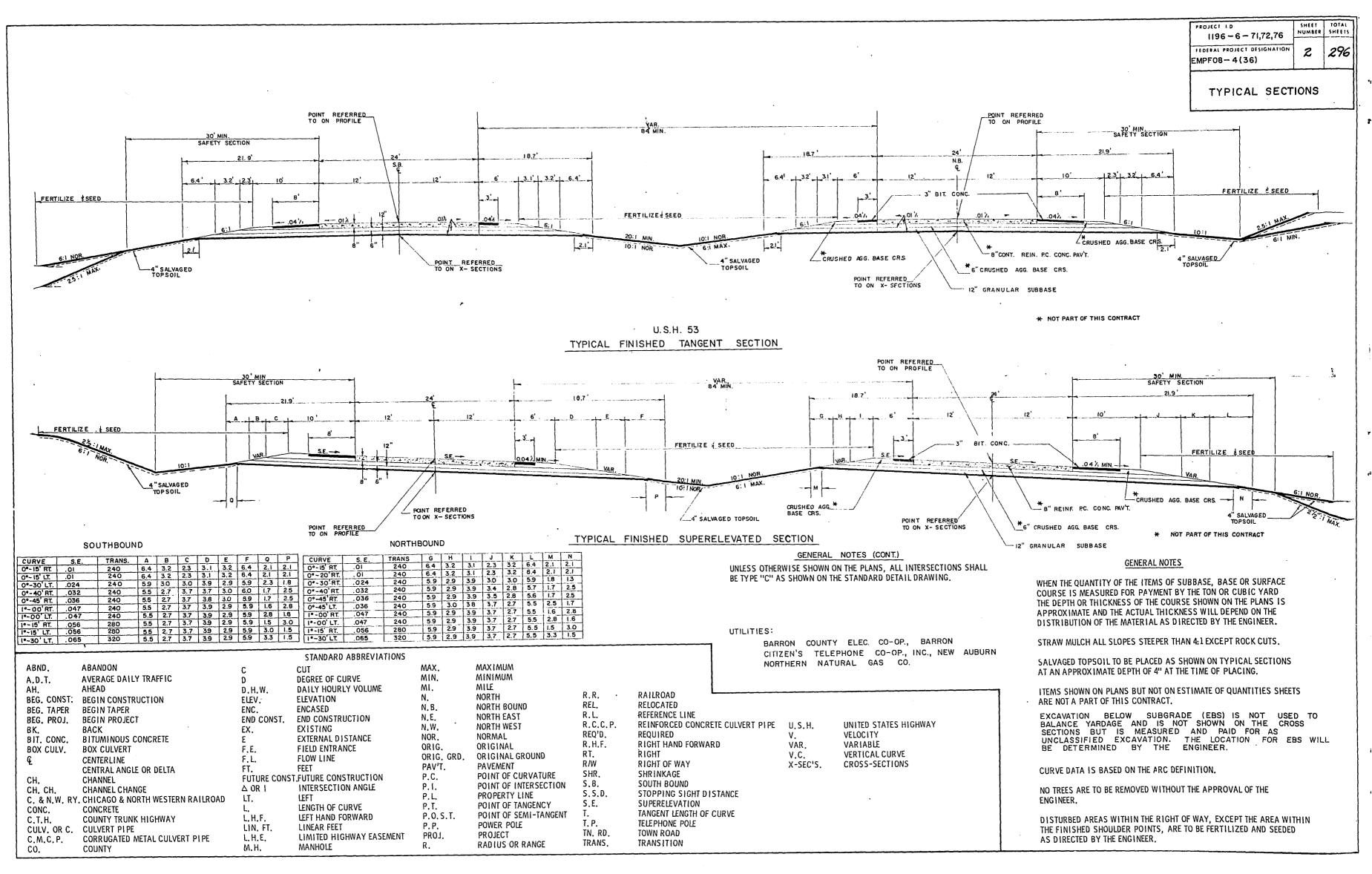
428.12' W. OF THE S. 1/4 COR., SEC. 35, T 32 N . R IO W

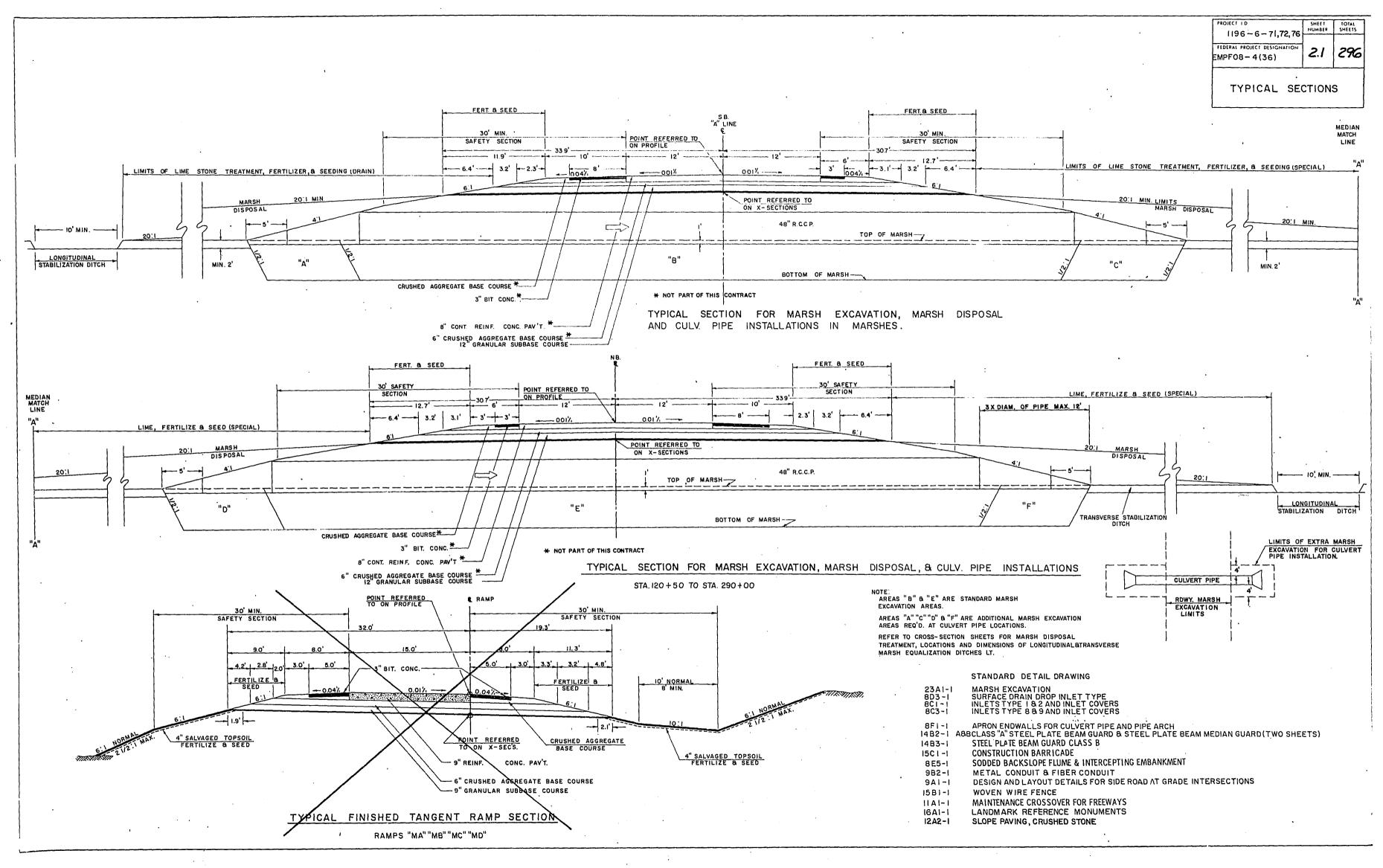
> CONTROL OF ACCESS WITHIN THE LIMITS OF THE PROJECT WHERE CONTROL OF ACCESS IS SHOWN THUS, TTTTTT NO ACCESS IS PERMITTED TO U.S.H. 53 TRAFFIC LANES EXCEPT BY RAMPS AT INTERCHANGES.

* CENTRAL ZONE COORDINATES

DEPARTMENT OF TRANSPORTATION

296





ESTIMATE OF QUANTITIES

THIS PROJECT IS TO BE EXECUTED UNDER THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE WISCONSIN DIVISION OF HIGHWAYS —— EDITION OF 1969 APPROVED MARCH 3, 1969; FEDERAL AID REQUIRED CONTRACT PROVISONS APPROVED NOVEMBER 15, 1968; AND SPECIAL PROVISION AS ATTACHED TO PROPOSALS.

CONTRACT NO. 2 STRUCTURES NO. B-3-14 B-3-15, B-3-16, B-3-17 B.PR. PROJECT SHEET TOTAL SHEETS

1196-6-72

EMPF08-4(36)

55TMATE OF QUANTITIES

NET STATION LENGTH	
TO OF STATION CENTER	
LINE	
ITEM NO.	
UNIT LIN. FT.	
BRIDGES (STRUCTURES OVER 20FT. SPAN)	

					BRII	DGES (S	STRUCTUR	ES OVER	20FT. SP	AN)									-				
SEC.	STRUCTUR	EXCAVATION FOR STRUCTURES BRIDGES	MASONRY,		BAR STEEL REINFORGEMENT, BRIDGES		STRUCTUAL LOW ALLOY STEEL	LUBRICATED BRONZE PLATES	BEARING PADS	BEARING PADS, ELASTOMERIC	SLOPE PAVING, CRUSHED AGGREGATE		STEEL PILING DELIVERED AND DRIVEN HP 10'X 42LB.	RAILING,	DELIVERED &	CONCRETE PILING.	ON THE JOB TRAINING						
		20601	50201	50305	50501	50601	50605	50614	50621	50625	60405	64201	90001	90002	90003	51020	90004						
		CU.YD.	CU. YD.	LIN. FT.	POUND	POUND	POUND	POUND	SQ. FT.	SQ. FT.	SQ. YD.	LUMP SUM	LIN. FT.	LIN. FT.	LIN.FT.	LIN. FT.	HRS.	 					
	B-3-14	312	664		(27, 320	3,970	1,100	77	7		476			302	4,070	497		 					•
					'										·			 					
	B-3-15	362	715		137,910	3,970	1,100	77 .	7		514			317	4,070	497		 					
												· .				1		 					
	B-3-16	395	557	590	121,870	3,780	2,070	190	17	19	511		800	332	<u></u>			 					
l															ļ	ļ		 				******	
I.	B - 3 - 17	395	556	590	121,900	3,720	2,070	190	17	19	508	-	800	332	 			 					
			<u> </u>							ļ			ļ		 			 				7	
	 		<u> </u>	 							<u> </u>		 		 	-		 					
				• •														 			·····		
	·				-		ļ	-										 					
	TOTAL C		0.400	1.100	500.000	IE 440	C 740	57A	40	7.0	2 000		1600	1007	0.140	 	i i	 The second secon					
لـا ا	TOTALS	1,464	2,492	1,180	509,000	15,440	6,340	534	48	38	2,009	<u> </u>	1,600	1,283	8, 14 0	994	1,000	 					

SEC	
1	·
 	
 	
_	

STANDARD ABBREVIATIONS

			0000
ABANDON	ABND.		0000 ∧. H.
ABSTRACT ACCESS POINT ACRES ADDITION	ABS.		AFG.
ACCESS POINT	A. P.	MAXIMUM	MAX.
ACRES	AC. ADD.	MEASURED	M)
AUDITION	AGRI.	MILE	۸۱.
AGRICULTURAL ,AHEAD	AH.	MILK ROOM	Ν. R.
AND OTHERS	ET. AL.	MINIMUM	MIN.
AND OTHERS	ET. UX.	MUNKENIENI	MON.
APARTMENT	APT.	MOTEL	MO. MCPL
ASSUMED	(A)	MONICIFAL	1.00
AUXILIARY REFERENCE LINE	A. <u>R</u>	NORTHEAST	NM AC
AVENUE	AVE.	NORTHWEST	NO.
AVENUE BACK BARN BASE LINE	BK. B.	OUTLOT	0. L.
BARN	β. β	PARALLEL	PLL
BEARING LONG CHORD	B.L.C.	PAVEMENT	PAV'T.
DITUMENOUS	BIT.	PERMANENT	PERM.
BITUMINOUS BLOCK BOULEVARD BRICK BUILDINGS CATCH BASIN	BLK.	POINT OF CURVATURE	P.C.
BOULEVARD	BLVD.	POINT OF INTERSECTION	۲.I.
BRICK	BRK.	POINT OF TANGENCY	Γ. I. ·
BUILDINGS	BLDGS.	POINT OF COMPOUND CORVE	P. R. C.
CATCH BASIN	C.B.	POINT ON CURVE	P. O. C.
CEMETERI	CEM. ŧ	PRIVATE DRIVE	P. D.
CENTERLINE	Δ	PROJECT	PROJ.
CENTRAL ANGLE CHANNEL	CH.	PROPERTY LINE	P. L.
CHANNEL CHANGE	CH. CH.	QUIT CLAIM DEED	Q.C.D.
CHICKEN HOUSE	C.H.	RADIUS	R
COMMERCIAL	COWW.	RAILROAD	RR.
COMPANY	COM.	RAILWAY	RT.
COMPUTED	(C)	REFERENCE LINE	RFI
CONCRETE	CONC.	RELUCATED	REO'D.
CONSTRUCTION	CONST.	REQUIRED RESIDENTIAL	RES.
CORN CRIB	COR.	RESTAURANT	REST.
CORNER CORPORATION	CORP.	RIGHT	RT.
CORRUGATION	CORR.	RIGHT OF WAY	RW
COUNTY	CO.	ROAD ·	RD.
COUNTY TRUNK HIGHWAY	C. T. H.	ROADWAY	RUWY.
CREEK	CR.	NORTHEAST NORTHWEST NUMBER OUTLOT PARALLEL PAVEMENT PERMANENT POINT OF CURVATURE POINT OF INTERSECTION POINT OF TANGENCY POINT OF COMPOUND CURVE POINT OF REVERSE CURVE POINT ON CURVE PRIVATE DRIVE PROJECT PROPERTY LINE QUIT CLAIM DEED RADIUS RAILROAD RAILWAY REFERENCE LINE RELOCATED REQUIRED RESIDENTIAL RESTAURANT RIGHT RIGHT OF WAY ROAD ROADWAY SANITARY SCALED SCHOOL SECTION SERVICE STATION	(5)
CULVERT	CULV.	2 CHOO!	SCH.
DEED	(D) D	SECTION .	SEC.
DEGREE OF CURVE	DISP,	SERVICE STATION	
DISPOSAL	DIST.	SEPTIC TANK	SEP.
DRIVE	DR.	SIDEWALK	SWK.
DRIVEWAY	ĎŴΫ.	SHED	S. SE
ESTATE	EST.	SOUTHEAST	SW
EXISTING	EX.	SOUTHWEST SPECIAL CROSSING	S. C.
EXTERNAL DISTANCE	E FACT.	SPECIAL DRIVE	S.D.
FACTORY	F. A. P.	SQUARE	SQ.
FEDERAL AID PROJECT FIELD ENTRANCE	F. E.	STANDARD .	STD.
FIRE HYDRANT	F. H.	STATE TRUNK HIGHWAY	S.T.H.
FOOT (FEET)	FT.	STATION	STA.
FOUNDATION	FDN.	STORY	STY ST.
FRAME	FR.	STREET	SUBD.
GARAGE	G.	SUBDIVISION	(S)
GOVERNMENT	GOV'T.	SURVEY TANGENT	TAN.
GREEN HOUSE	G.H. HWY.	TANGENT LENGTH OF CURVE	Ţ
HIGHWAY	HO.	TAPER	TAP.
HOTEL HOUSE	но. Н.	" TAVERN	TAV.
HOUSE TRAILER	н. т.	TEMPORARY	ŢEMP.
INCHES	IN.	TRANSIT LINE	Ţ,
INCORPORATED	INC.	TRANSMISSION TOWER	T.T. / U.S.C.&.G.S
INCLUSIVE	INCL	UNITED STATES COAST & GEODETIC SURVEY UNITED STATES GEOLOGICAL SURVEY	U.S.G.S.
INTERSECTION ANGLE	l 1.H.	UNITED STATE HIGHWAY	U. S. Highway
INTERSTATE HIGHWAY	1. H. 1. P.	VENDEE	V DE.
IRON PIN	IS.		VDR.

VENDOR

WELL

WOOD

VITRIFIED

WINDMILL

WAREHOUSE

WATER TOWER

IS. LT.

L LSE. LSR. L.H.E. M.S. MAG.

IRON PIN

MAGNETIC

LEFT LENGTH OF CURVE LESSEE

MACHINERY SHED

LESSOR LIMITED HIGHWAY EASEMENT

VIT.

WH.

W.T.

W. WM.

WD.

SCHEDULE OF LANDS AND INTERESTS REQUIRED

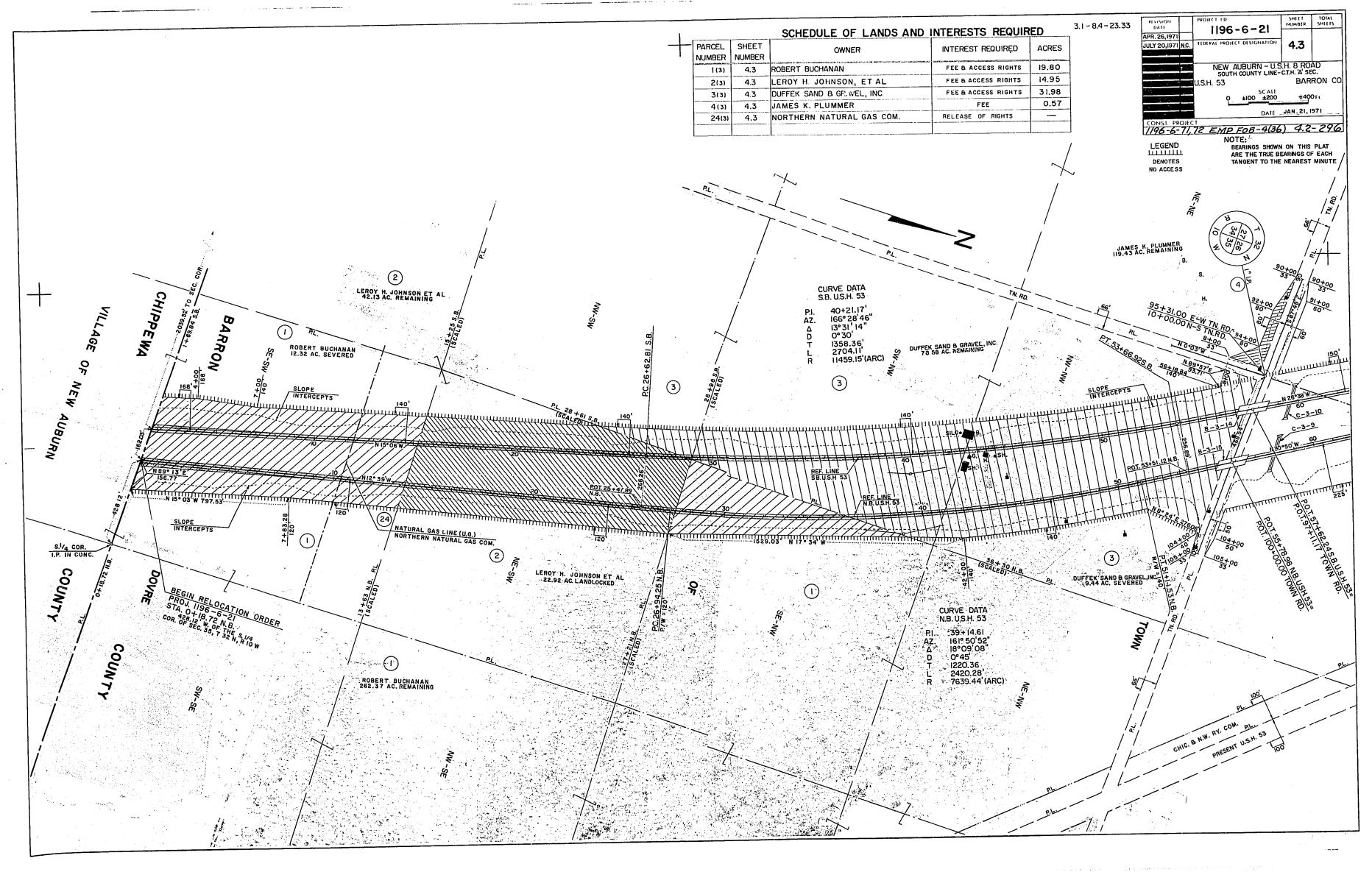
PARC NUMBI	1	SHEET IUMBER	OWNER .	INTEREST REQUIRED	ACRES	OPERATIONS PROJECT 1. D
	(3)	4.3	ROBERT BUCHANAN	FEE & ACCESS RIGHTS	19.80	1196-6-21
	(3)	4.3	LEROY H. JOHNSON, ET AL	FEE BACCESS RIGHTS	14.95	1196-6-21
	(3)	4,3	DUFFEK SAND & GRAVEL, INC.	FEE & ACCESS RIGHTS	31.98	1196-6-21
	(3)	4.3	JAMES K. PLUMMER	FEE	0.57	1196-6-21
	(3)	4.4	LELAND P. HURLEY	FEE & ACCESS RIGHTS	9.75	1196-6-21
	(3)	4.4	LOYAL L. PEDERSON	FEE & ACCESS RIGHTS	28.33	1196-6-2
7		4.4	BARRON COUNTY	FEE, L.H.E. B ACCESS RIGHTS	5.35	1196-6-21
<u></u> 8		4.4	DONALD E. SCHROEDER	FEE & ACCESS RIGHTS	11.24	1196-6-21
9			DUFFEK SAND & GRAVEL, INC., ET AL	FEE & ACCESS RIGHTS	77.01	1196-6-21
IC		4.5	ORVILLE MOE	FEE & ACCESS RIGHTS	30.28	1196-6-21
11			ARTHUR J. HANSEN	FEE & ACCESS RIGHTS	46.53	1196-6-21
12		4.5	CARL PINNERUD, ET AL	FEE	0.44	1196-6-21
13		4.6	CARLSON FRYERS, INC.	FEE & ACCESS RIGHTS	19.88	1196-6-21
14		4.6	CHRISTIAN C. CARLSON	FEE	0.08	1196-6-21
15	5	4.6	KENNETH J. JACOBSON	FEE & ACCESS RIGHTS	13.35	1196-6-21
16	5 4	4.6 8 4.7	HERMAN GOODMANSON	FEE & ACCESS RIGHTS	46.63	1196-6-21
17		4.7	WILLIAM NOVAK	FEE & ACCESS RIGHTS	1.65	1196-6-21
18		4.7	RAYMOND KARSHBAUM	FEE & ACCESS RIGHTS	1.63	1196-6-21
2		4.7	MELVIN L. DEVOSS	FEE & ACCESS RIGHTS	16.14	1196-6-21
2		46 8 4.7		FEE	37.38	1196-6-21
2		4.7	WILLIAM NOVAK	FEE	10.42	1196-6-21
2:		4.7	DUFFEK SAND & GRAVEL, INC., ET AL	FEE & ACCESS RIGHTS	19.76	1196-6-21
	4(3)	4.3	NORTHERN NATURAL GAS COM.	RELEASE OF RIGHTS	-	1196-6-40
			,			
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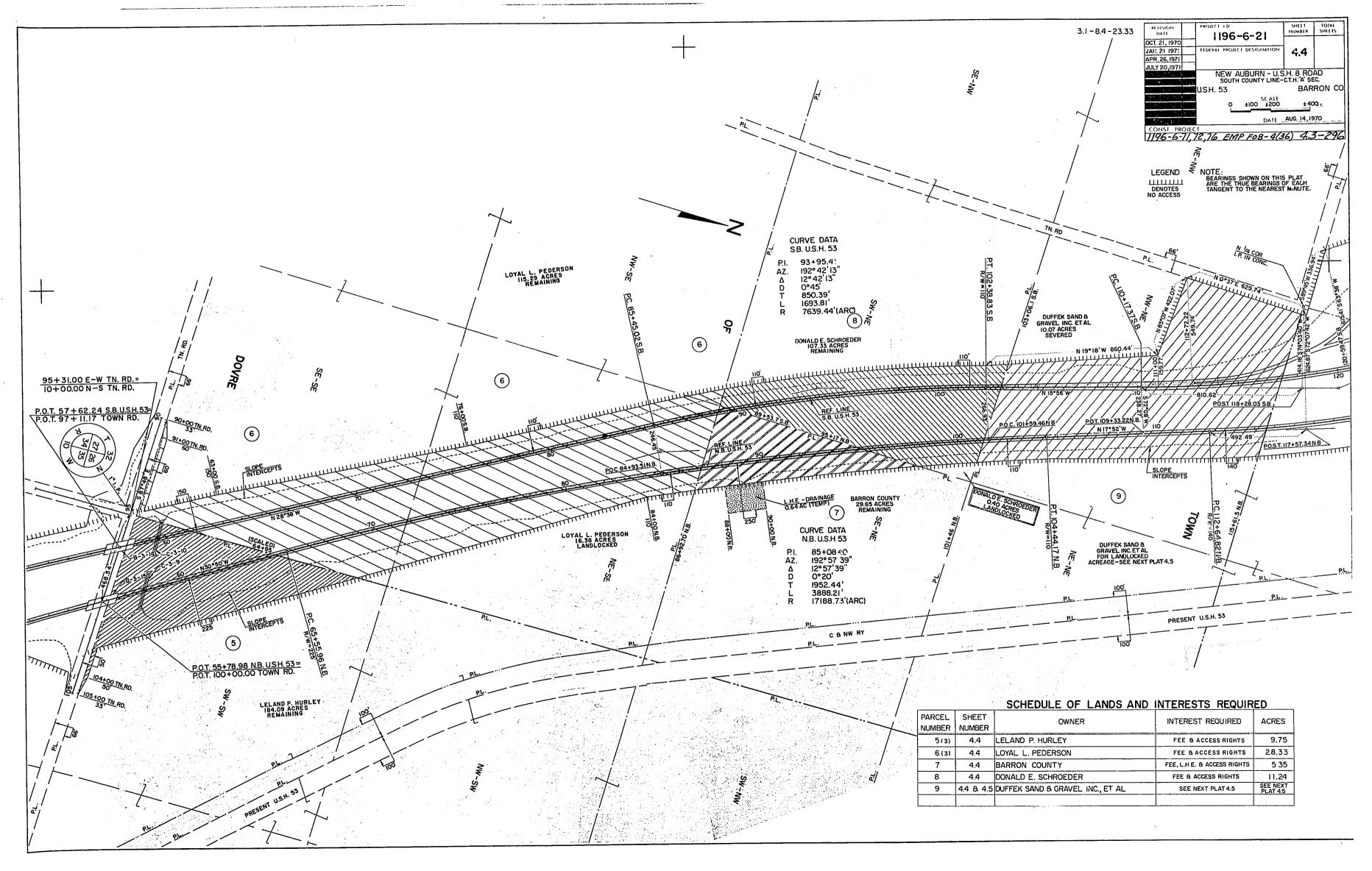
CONVENTIONAL SIGNS

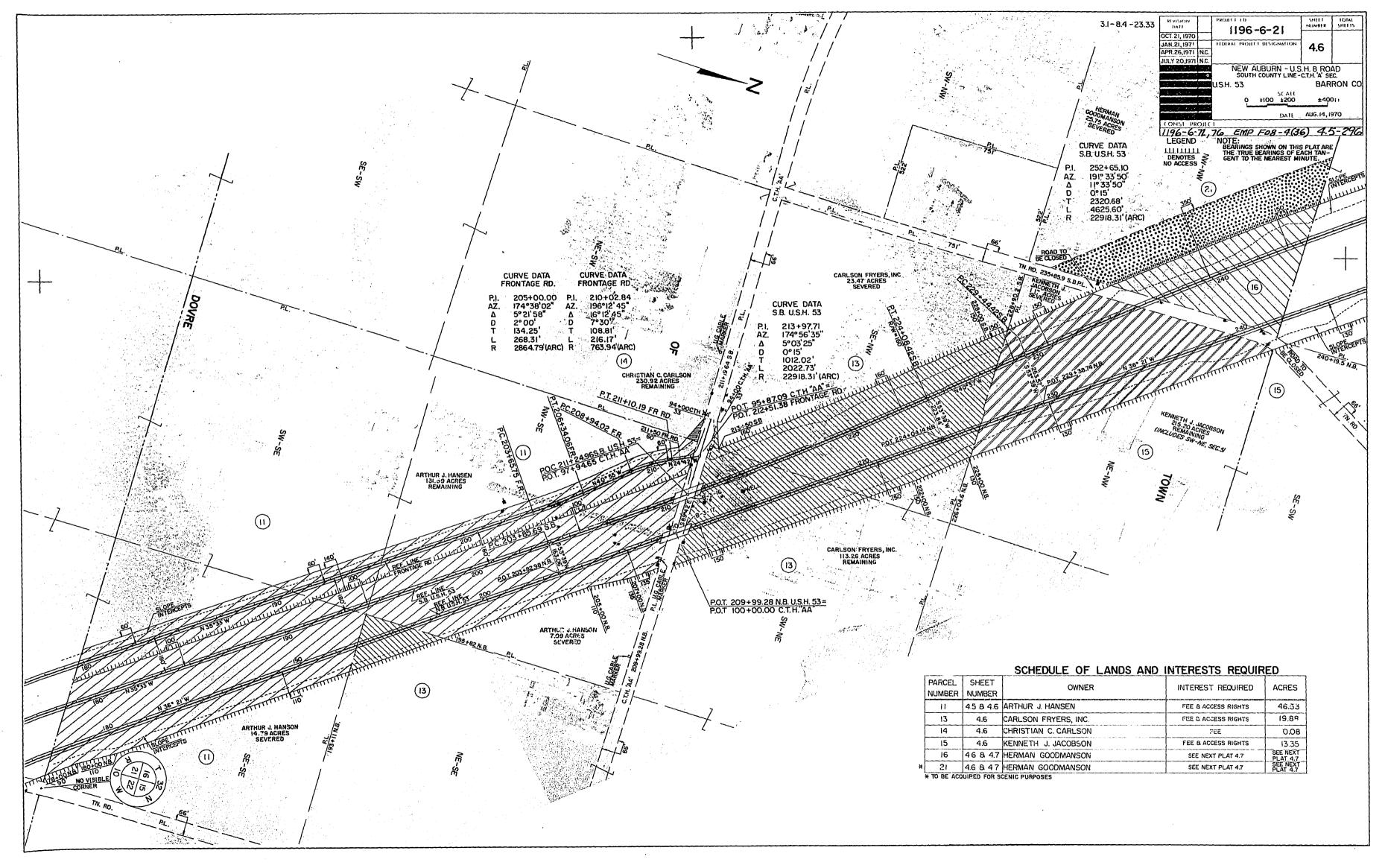
STATE LINE		HIGHWAY HIGHWAY	CEMETERY	Cem.
COUNTY LINE TOWNSHIP AND RANGE LINES		HIGHWAY OVERPASS	FOUNDATION GAS PUMP ISLAND	Gas Pump
SECTION: LINE QUARTER LINE		RAIL LINE OVERPASS	BUILDING IRON PIN	type I.P.
SIXTEENTH LINE NEW CENTERLINE		ALL OTHER BRIDGES	POWER POLE TELEPHONE POLE	#- #
NEW R/W LINE		STREAM OR Mamel	RAIL LINE	·
OLD R/W LINE PROPERTY LINE	P: L. +00. 0	LAKE (name)	TRANSMISSION TOWER AND LINE	***
CORPORATE LIMITS	///{NAME}//////// slope intercept	CATTLE PASS	UNDERGROUND CABLE MARKER	<i></i> □···· -
SLOPE INTERCEPTS		₹ RELOCATED STREAM OR RIVER	WELL	. 88
LOT, TIE AND OTHER MINOR		TRAVELED WAY	STONE MONUMENT .	⊠
DASHED LINES	,	(Shown only in area of	SEPTIC TANK	⊙
UNDERGROUND FACILITY (POWER, TELEPHONE, TELEGRAPH, GAS, ETC.)	(Name or Type)	Frontage Roads, Interchanges or Dual Lanes)	WINDMILL .	
NO ACCESS	141141110111111111111111111111111111111			
LIMITED HIGHWAY EASEMENT	<u> </u>	·		

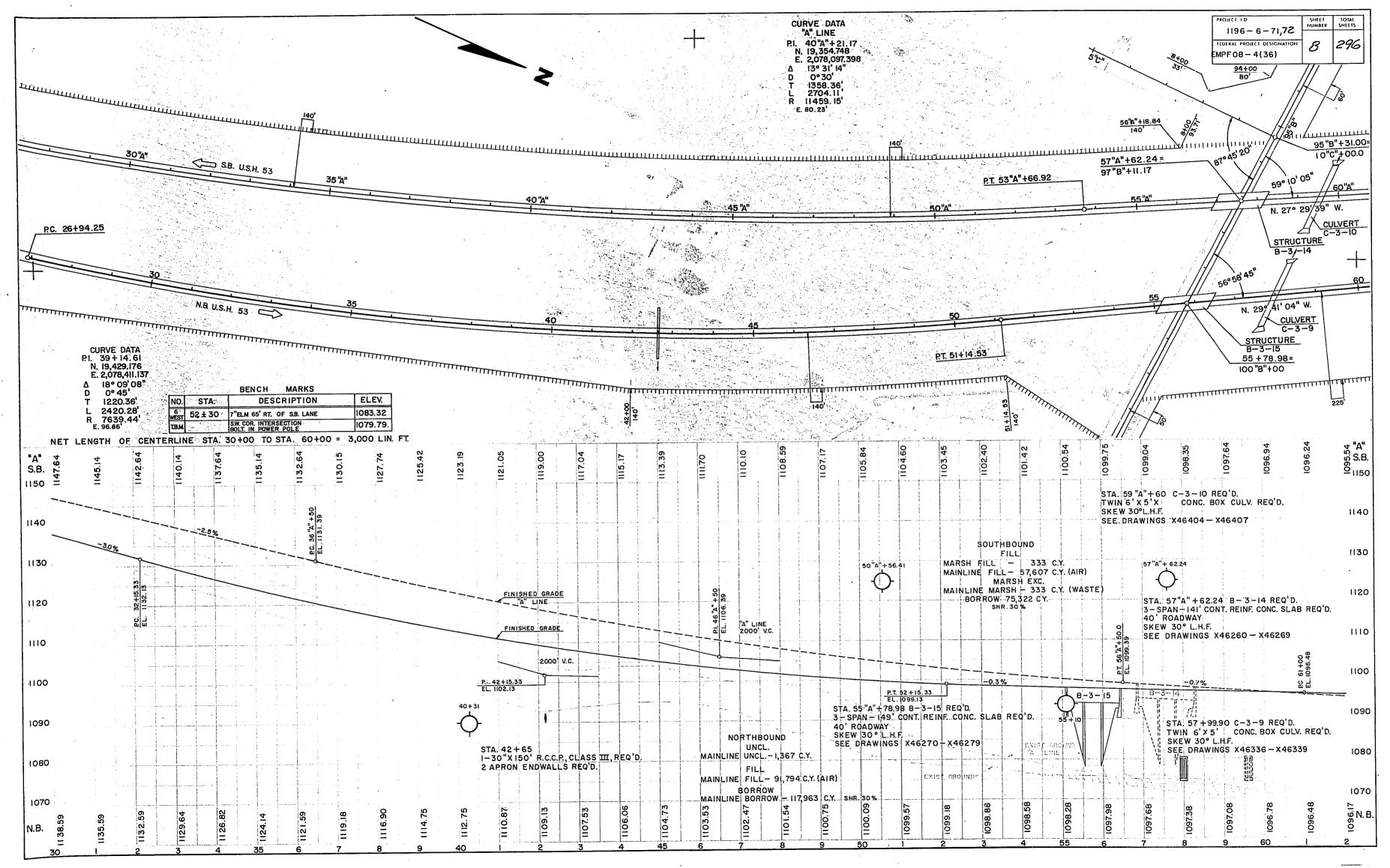
SHEET TOTAL NUMBER SHEETS REVISION DATE 3.1-8.4-23.33 1196-6-21 OCT. 21, 1970 JAN. 21, 1971 APR. 26, 1971 JULY 20, 1971 FEDERAL PROJECT DESIGNATION NEW AUBURN - U.S.H. 8 ROAD SOUTH COUNTY LINE - C.H. A SECTION II. 53 BARRON CO. 311. 53 AUG. 14, 1970 1196-6-71,72,76 EMPF08-4(36) 4-296

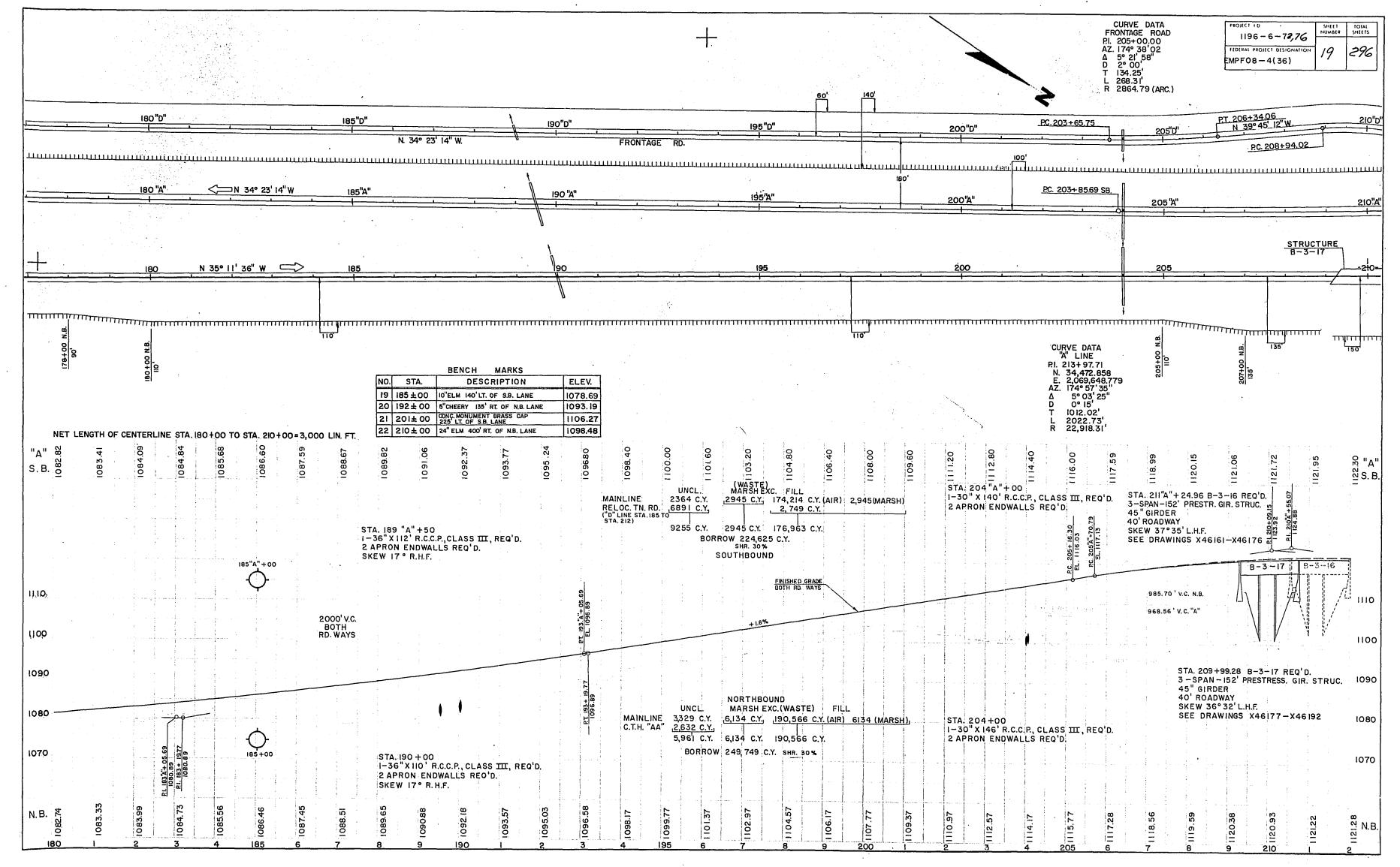
OFFICIAL PLAT ON FILE WITH THE REGISTER OF DEEDS OFFICE

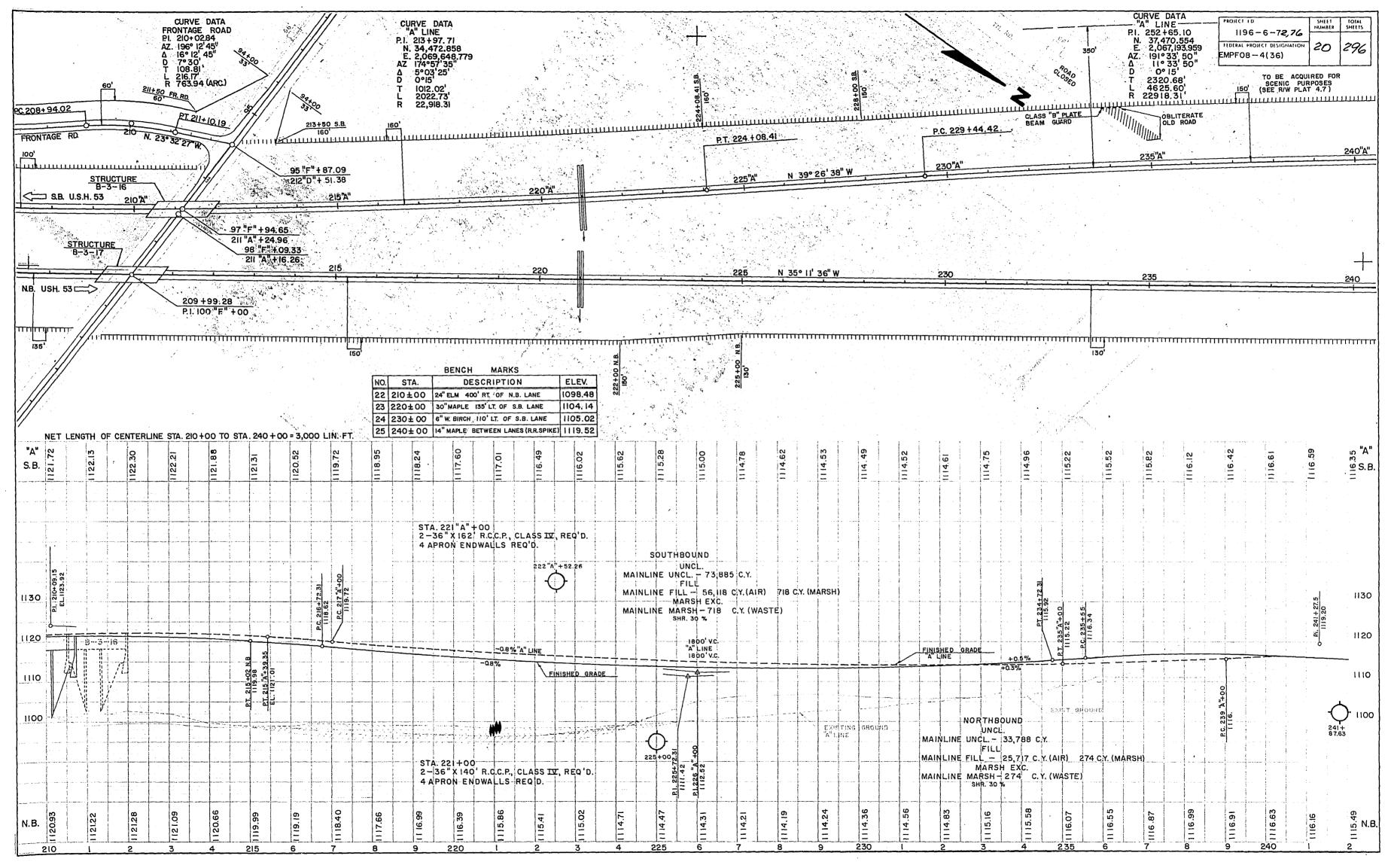




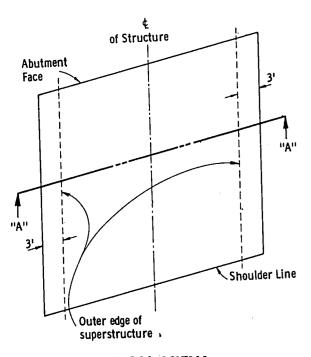




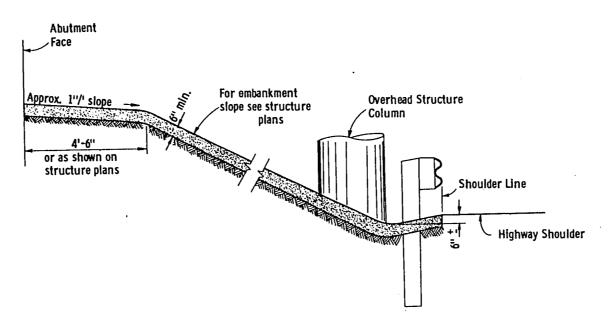




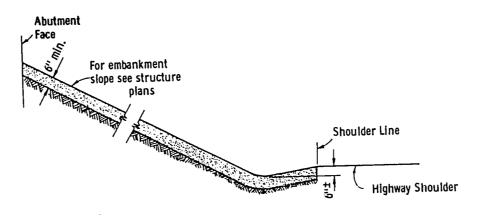
TYPICAL LOCATION DIAGRAM FOR SLOPE PAVING UNDER STRUCTURES



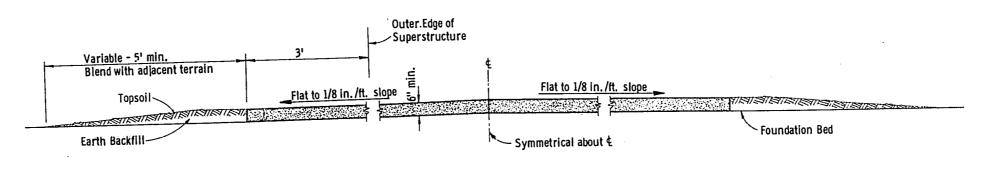
PLAN VIEW



TYPICAL RURAL SECTION HIGHWAY GRADE SEPARATION SILL TYPE ABUTMENT



TYPICAL RURAL SECTION HIGHWAY GRADE SEPARATION SEMI-RETAINING TYPE ABUTMENT



SECTION "A"-"A"

GENERAL NOTES

Details of construction not shown hereon shall conform to the pertinent requirements or the Standard Specifications and the applicable Special Provisions.

The material shall conform to the gradation requirements for coarse aggregate for concrete masonry, size No. 2 of either series No. 1 or series No. 2.

BITUMINOUS MATERIAL

The upper portion of the paving shall be stabilized by means of an application of bituminous material conforming to the requirements of the applicable Standard Specification or Special Provisions. The bituminous material shall be applied at a rate sufficient to assure penetration into and binding together of the particles in the upper two inches of the crushed stone. The surface of the adjacent structure shall be protected so as to prevent their being splattered or discolored with bituminous material.

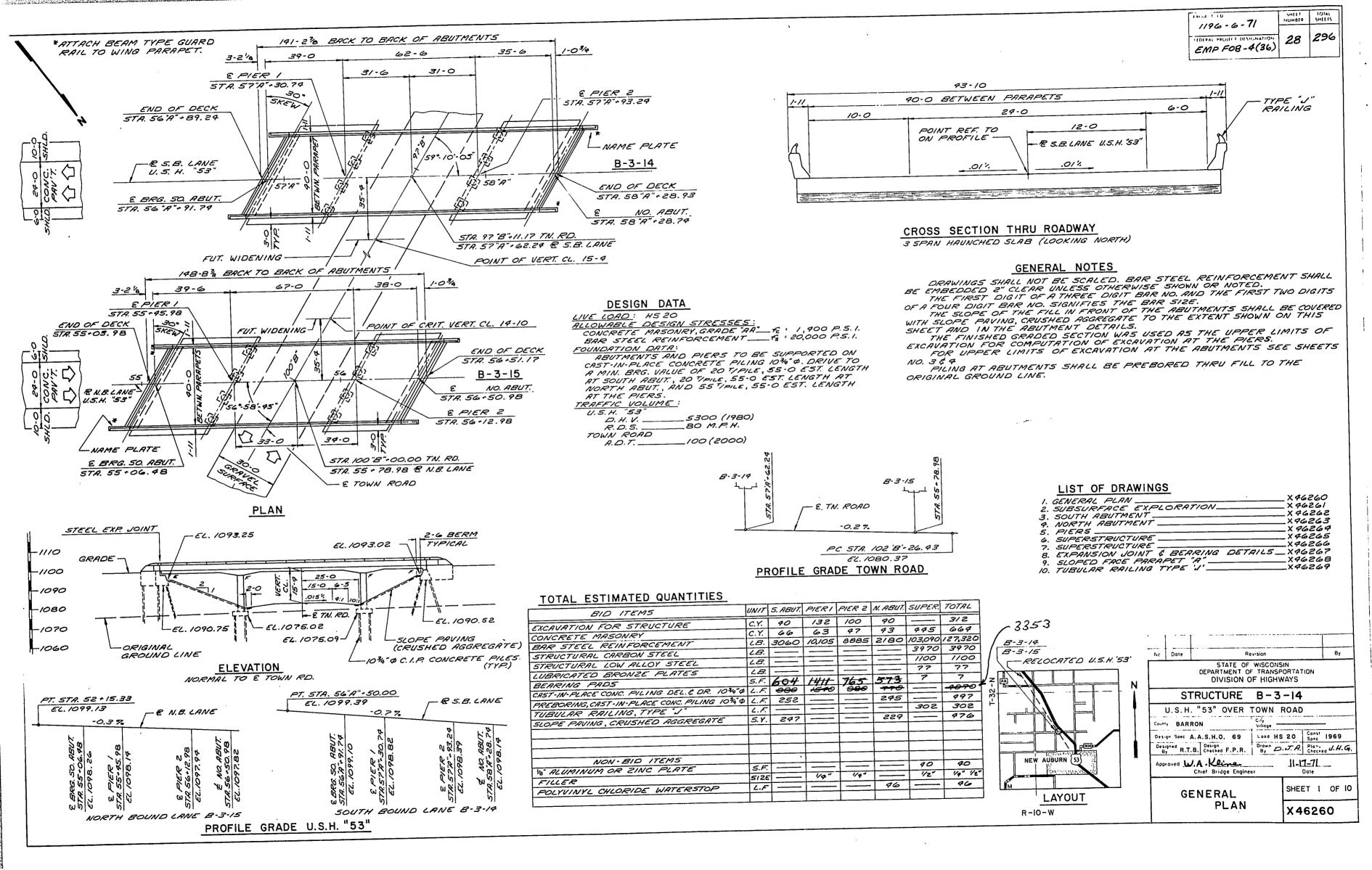
METHOD OF MEASUREMENT & PAYMENT

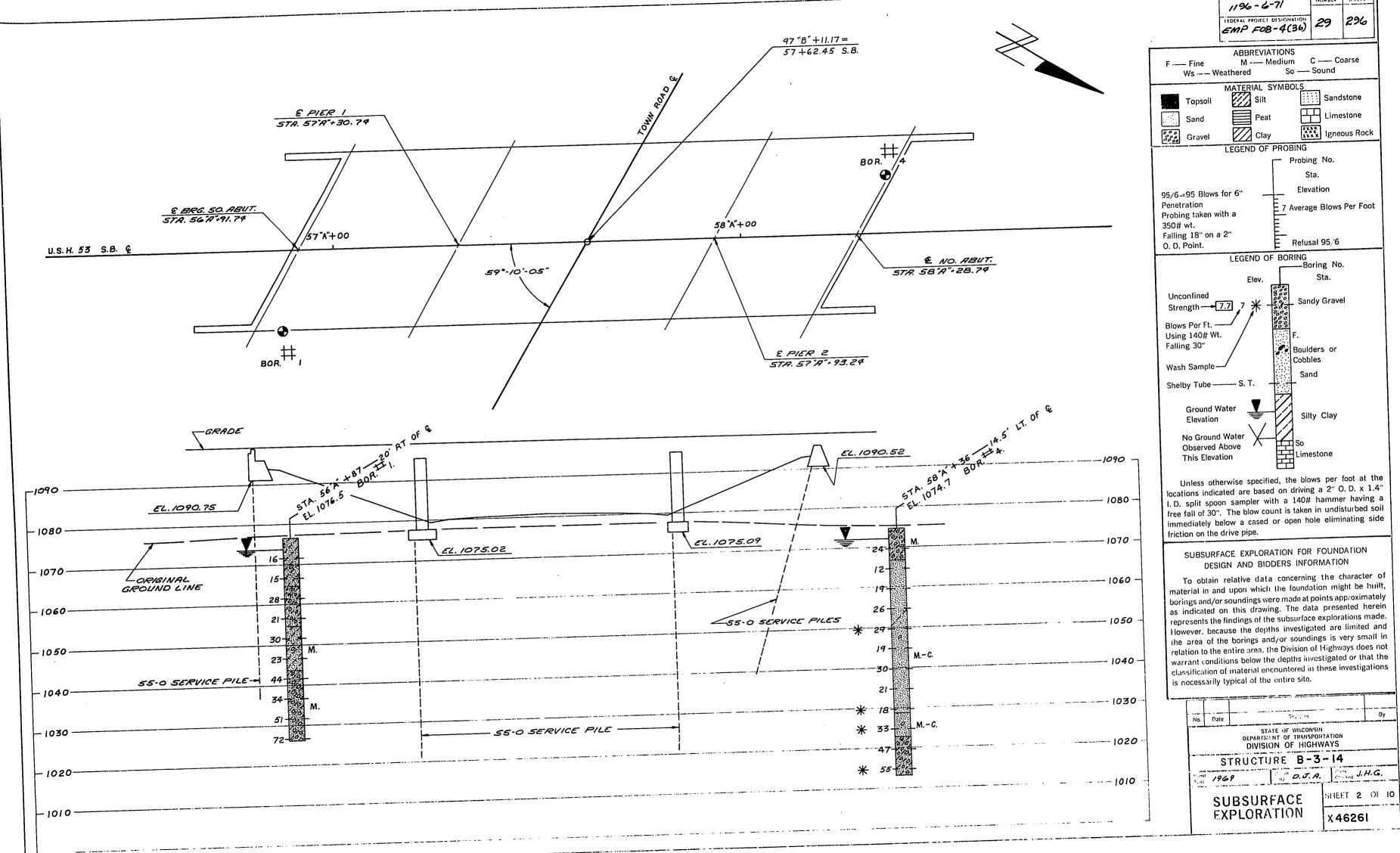
This work shall be measured and paid for by the square yard, which yardage shall be the summation of the total area measured on the plane of the surface thereof, and as provided for in the Standard Specifications and applicable Special Provisions.

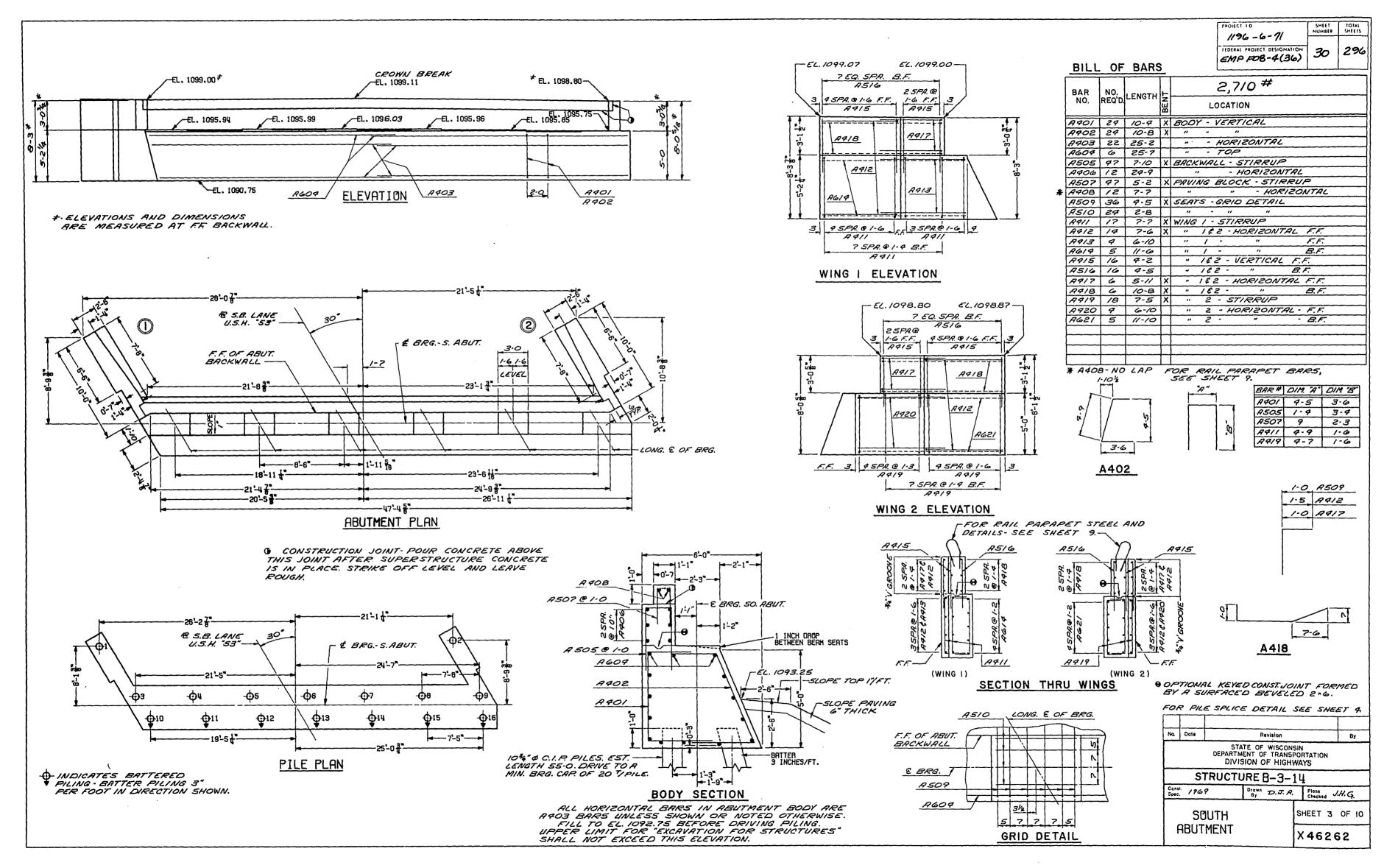
SLOPE PAVING CRUSHED STONE

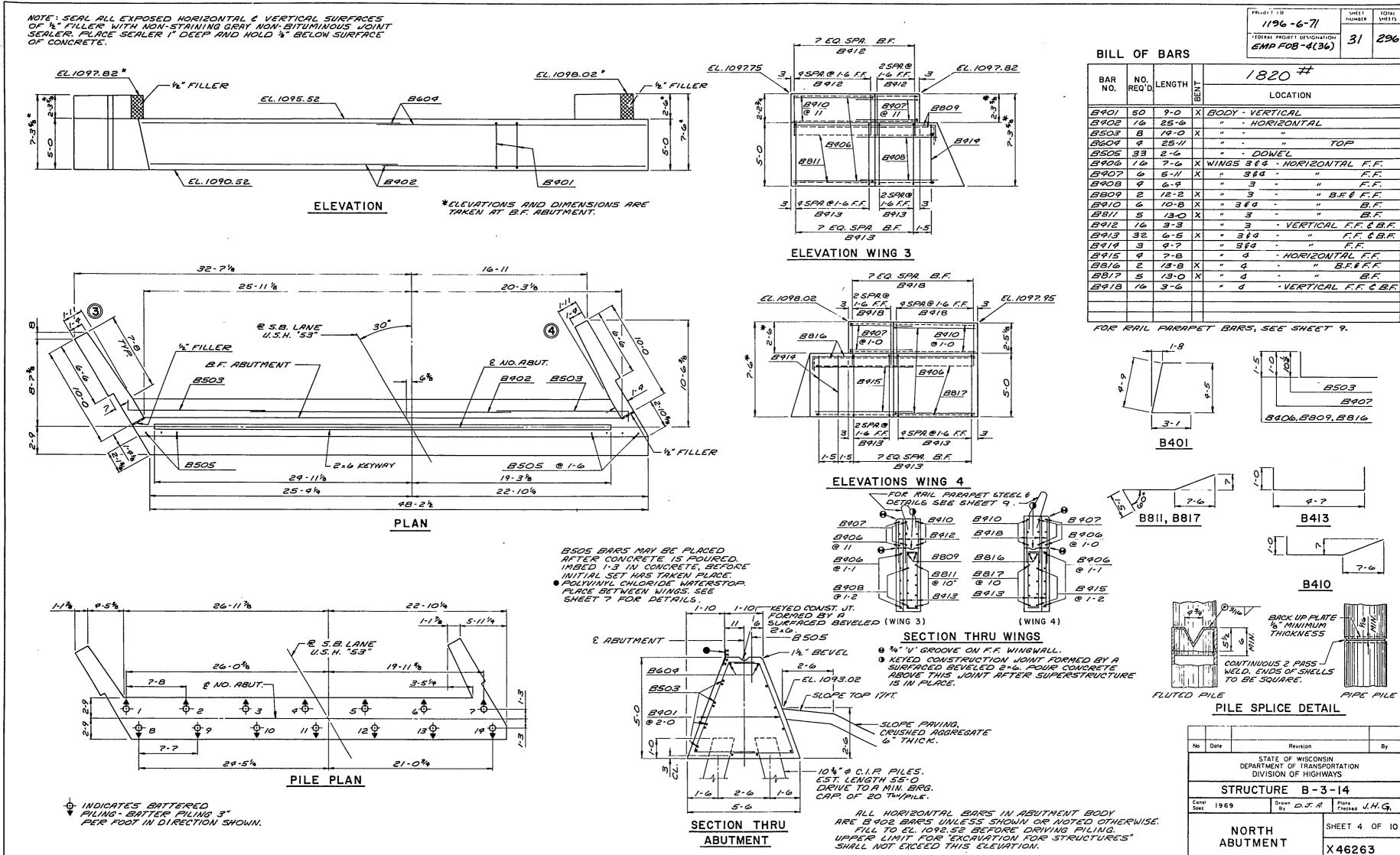
State of Wisconsin Department of Transportation Division of Highways

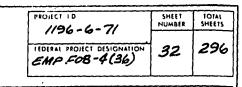
1/25/68

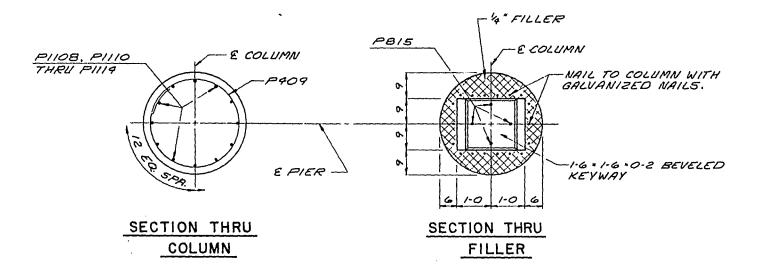


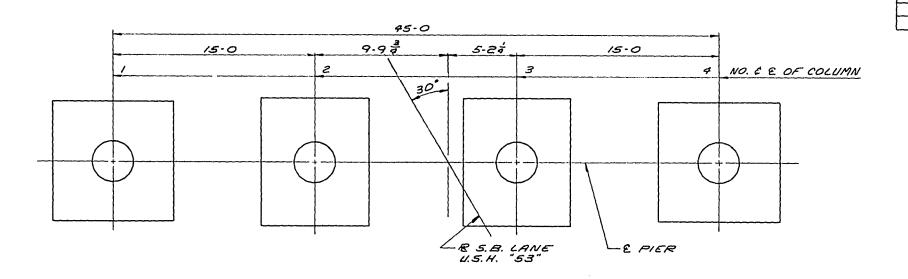




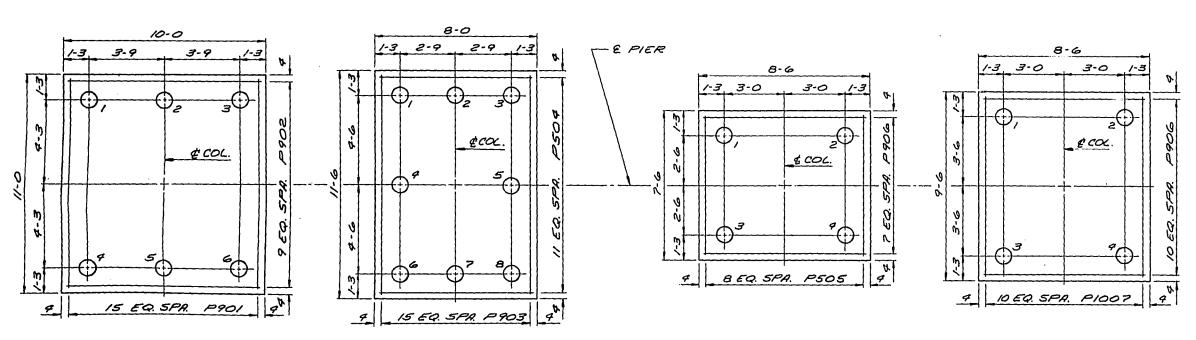








PIER PLAN



EXTERIOR FOOTING

TYPICAL FOOTING PLAN - PIER I

-EL. "A"

P815

3-0

PIIIO THRU

P1114

E COLUMN

P1108

PIER 1 EL. 1075.02 PIER 2 EL. 1075.09

104" C.I.P. PILING. DRIVE TO A MIN. BRG CAP OF 55 TOWS/PILE. EST. LENGTH 55-0-

TYPICAL COLUMN ELEVATION

P902, P504

P906 P901, P903 P505, P1007 P409

TOP OF COLUMN CONCRETE

INTERIOR FOOTING

EXTERIOR FOOTING

INTERIOR FOOTING

TYPICAL FOOTING PLAN - PIER 2

18,990# NO LENGTH LOCATION P901 32 10-6 EXTERIOR FOOTINGS - PIER 1 P902 20 9-6 P903 32 11-0 INTERIOR P504 29 7-6 PSOS 18 7-0 EXTERIOR P906 38 8-0 EXT. & INT. P1007 22 9-0 INTERIOR PIIOB 96 7-6 X FOOTING & COLUMN - DOWELS P409 152 9-5 X COLUMN - TIES PIIIO 24 17-9 PIER I, COL. I & PIER 2, COL. 3 · VERT. P1111 29 17-6 " 1, " 2 € " 2, " 2 6 " 2, " 4 -P1112 24 17-3 P1113 12 17-7 1, " 3 - VERTICAL P1114 12 17-1 " 2, " 1 -PBIS 32 2-0 | COLUMN & SLAB - DOWELS



BILL OF BARS

P1108

P409

ELEVATION AND COLUMN LENGTH

ELEV. "A" LENGTH "L" COLUMN 1 1095.52 17-6 " 2 1095.71 17-84 " 3 1095.80 17-948 " 4 1095.72 17-848 " 1 1095.09 17-3 R " 2 1095.27 17-548 " 3 1095.28 17-644 " 4 1095.28 17-544				-	
U " 2 1095.71 17-84 U " 3 1095.80 17-96 U " 4 1095.72 17-86 U " 1 1095.09 17-3 U " 2 1095.27 17-56 U " 3 1095.36 17-64				ELEV. "A"	LENGTH "L"
" 3 1095.80 17-9% " 4 1095.72 17-8% " 1 1095.09 17-3 " 2 1095.27 17-5% " 3 1096.36 17-6%	$\overline{}$	COLUMN	1	1095.52	17-6
0 " 1 1095.72 17-8% 0 " 1 1095.09 17-3 0 " 2 1095.27 17-5% 1 3 1096.36 17-6%	Ç	"	г	1095.71	17-84
\(\begin{array}{cccccccccccccccccccccccccccccccccccc	76.	"	3	1095.80	17-9%
W " 2 1095.27 17-5% W " 3 1095.36 17-6%	Ų	"	9	1095.72	17-8%
" 3 1095.36 17-64	N	"	1	1095.09	17-3
3 7078.36 7776.4	R		2	1095.27	17-5%
" 4 1095.28 17-514	16	"	3	1095.36	17-64
	ય	"	4	1095.28	17-514

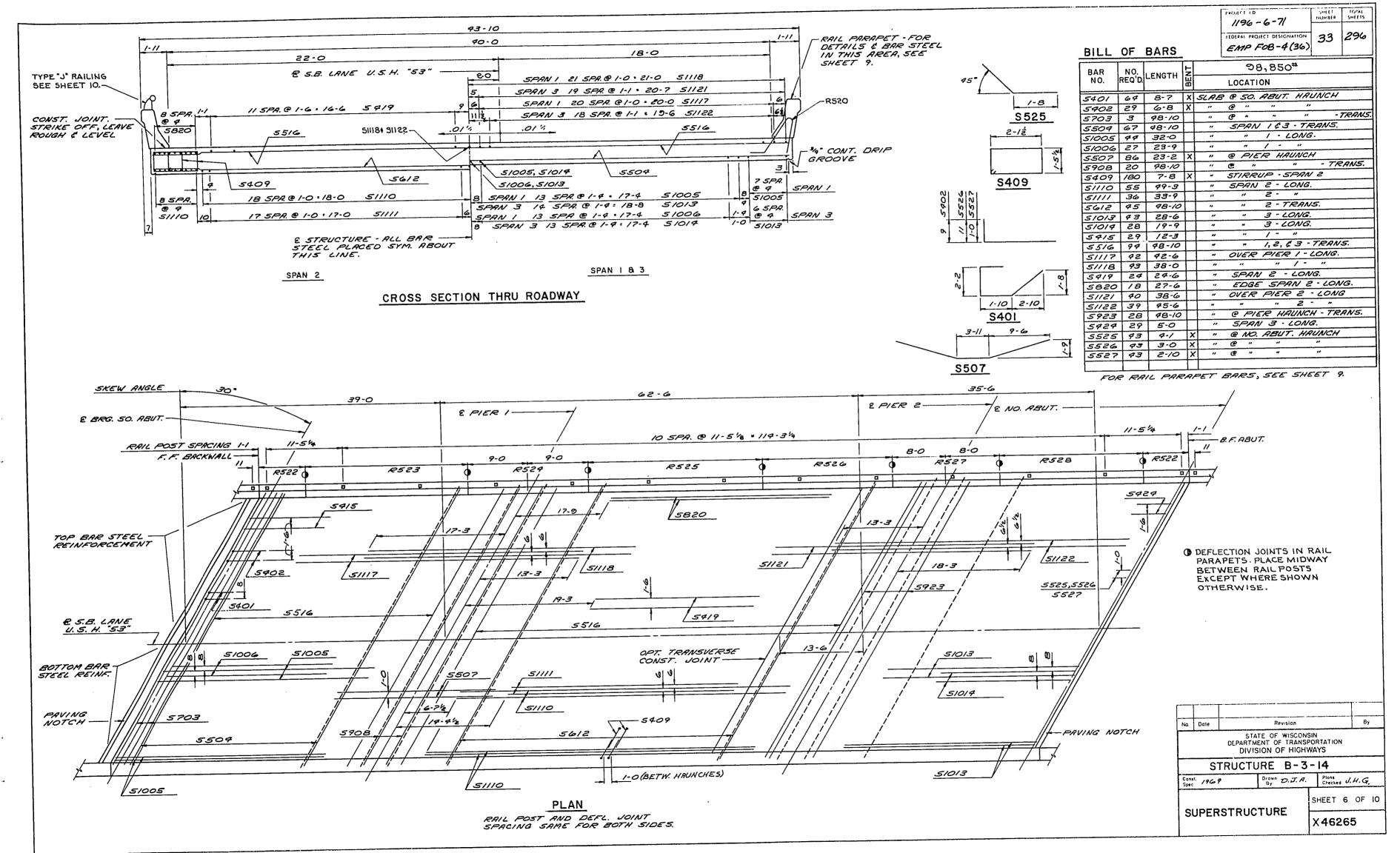
TOP OF COLUMN ELEVATIONS (EL. "A") AND COLUMN LENGTH "L"
ARE MEASURED AT E PIER AND E COLUMN.
SLOPE TOP OF COLUMN TO MATCH SLOPE OF SUPERSTRUCTURE.

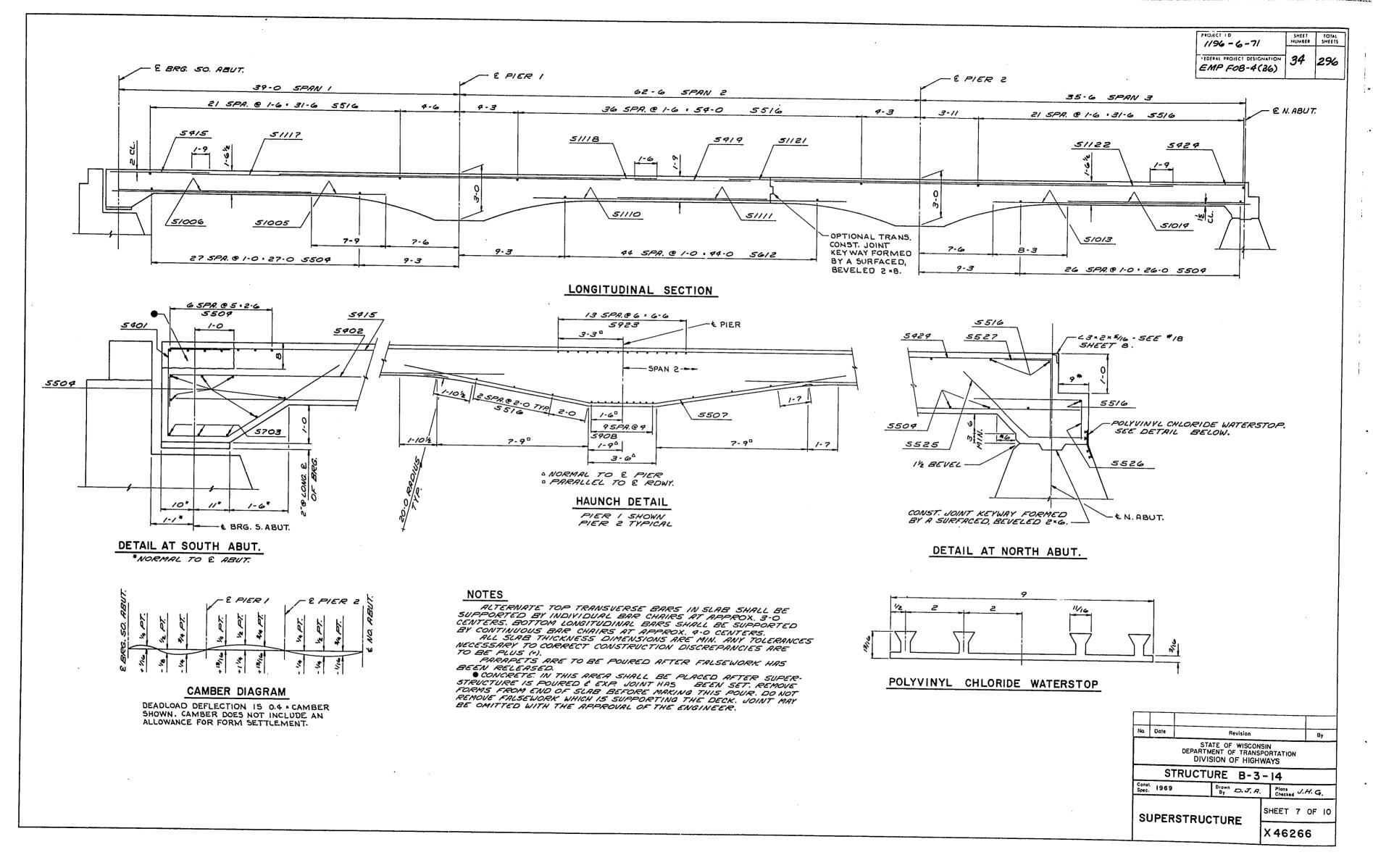
Q CONSTRUCTION JOINT KEY FORMED BY A SURFACED

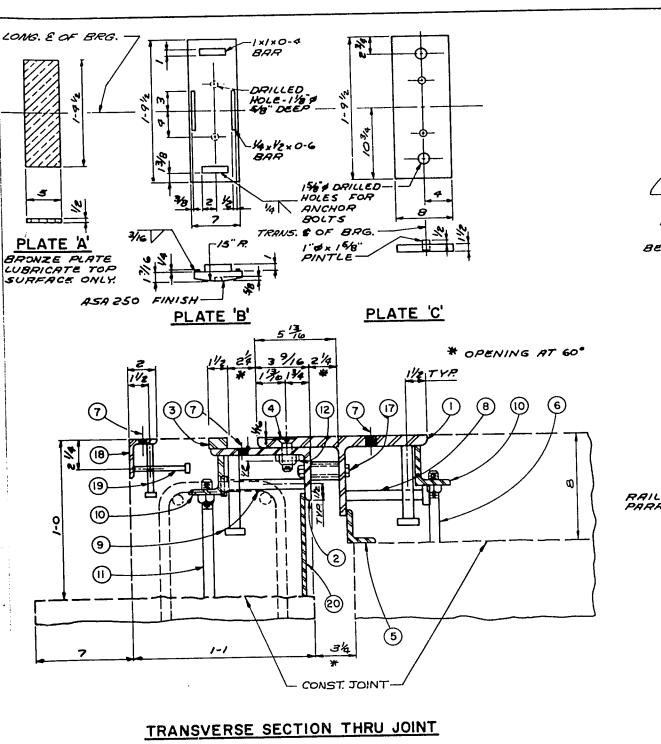
BEVELED 1-6 . 1-6 . 0-2. PBIS BARS MAY BE PLACED AFTER COLUMN CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE.

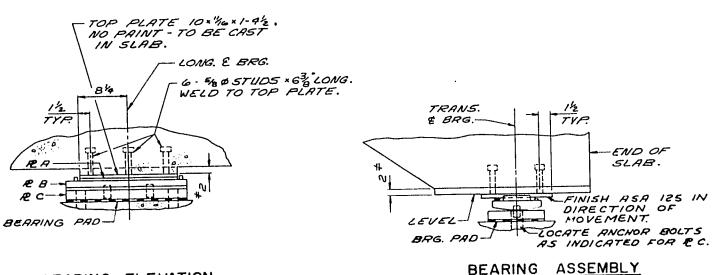
FOR PILE SPLICE DETAIL SEE SHEET 4

	[·
Na	Date		Revision		Ву
		DEPARTM	TE OF WISCON ENT OF TRANS SION OF HIGH	PORTATION	
	S	TRUCTU	JRE B-3	3-14	
Cons Spec		9	Drawn D. J. A	Plans J.	H.G.
		PIERS		SHEET 5	OF 10
		1 12113		X 4626	4



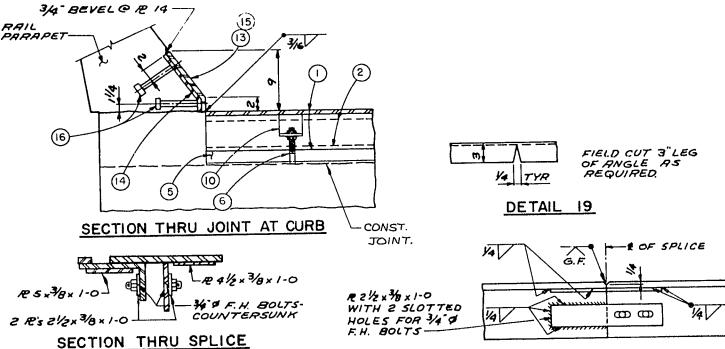




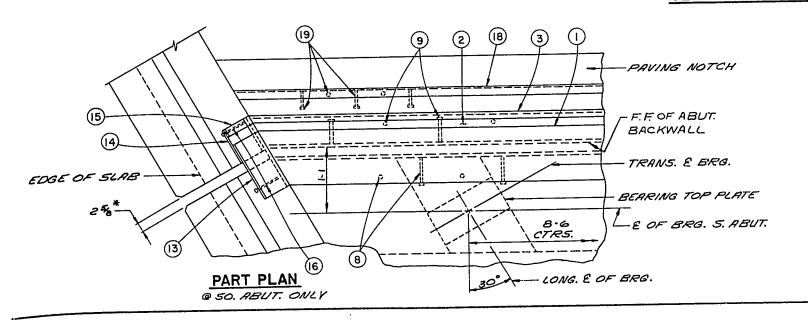


BEARING ELEVATION BEARING DETAILS

@ LONG. & OF BRG.



OPTIONAL FIELD SPLICE DETAIL ONE SPLICE SHALL BE PERMITTED IN JOINT.



BEARING NOTES

1/96-6-7/	SHIFT NUMBER	TOTAL SHEETS
EMP F08-4(36)	35	294

ALL MATERIAL EXCLUDING ANCHOR BOLTS, PINTLES, NUTS, STUDS WASHERS SHALL BE MADE OF A588 STEEL PINTLES SHALL BE MADE OF A449 STEEL.

ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT
ROLLED STEEL PLATES WITH ALL SURFACES SMOOTH AND FREE FRO
WARP AND ALL EDGES SMOOTH, STRAIGHT AND YERTICAL.

ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME GUTS. MACHINE FINISH THE BOTTOM SURFACE ONLY OF PLATES SHOWN TO BE FINISHED.

ALL MATERIAL EXCLUDING BRONZE PLATES & BEARING PADS
SHALL BE PAID FOR AT THE UNIT PRICE BID FOR

"STRUCTURAL LOW ALLOY STEEL."
ALL ANCHOR BOLTS TO BE 11/4" \$ x 1-3 LONG, SET FLUSH AND WITH LEAD TO THE TOP OF PLATE 'C'. EXCESS LENGTH MAY BE FURNISHED, THREADED FOR SETTING AND THEN CUT OFF FLUSH.

CHAMFER TOP OF PINTLES 'S". DRILL HOLES FOR PINTLES IN PLATE 'C' FOR DRIVING FIT. PROVIDE V8" THICK BEARING PAD SAME SIZE AS PLATE 'C' FOR EACH BEARING.

ALL BEARINGS ARE SYMMETRICAL

LEGEND

1. WT 6 x 39.5 x ROADWAY WIDTH WELDMENT MAY BE USED SEE DETAIL A.
2. L 7x 9x 7/10 x ROWN WIDTH LONG DIMENSION OF '9/10' x 1 ½" SLOTTED
HOLE TO BE PARALLEL TO DIRECTION OF MOVEMENT.

3. BAR IV2 x 3/4 x ROWY. WIOTH, WELD TO L#2 WITH & LINES OF 1/4

3. BAN 1/2×3/A LAUWY, WINTH, WEED 1. TO BE SOLUTION OF THE SOL

7. VENT HOLES, "HE PAT 2-0 CTRS, IN WITH AND C"Z AND 3-0 CTRS, IN 18. 8. 48 STUDS . 6 36" LONG. WELD TO WITH AT 6" ALTERNATE CENTERS.

9. \$8"\$ STUDS x 6 \$8"LONG. WELD TO L \$2 AT 9 ALTERNATE CENTERS.
10. C3x2 \$2x \$36 x 3"LONG AT 3-0 CENTERS. WELD TO L \$2 AND WT \$1

PROVIDE 'S/16 \$ HOLES IN 25" LEG FOR RODS \$6 AND \$11.

11. \$4\$ \$ROD x 9 LONG \$\times NUT THREAD 3" TACK WELD NUT TO L \$10.

12. \$16x \$17x \$154 LONG KEEPER BAR. ONE PER \$4 BOLT PLACE BAR WITH

LONG DIMENSION PARALLEL TO \$ OF ROWY. \$78" CLEAR FROM \$4 SQUAR.

NUT AND WELD BAR AT SIDE FACING AWAY FROM NUT WITH \$16 FILLET

WELD 11/4" LONG TO L \$2.

13. \$2 \cdot 1/4" \$36-FIELD WELD TO WT \$\frac{1}{2}\$.

WELD IV4" LONG TO CHE.

13. R1-13x30-FIELD WELD TO WT # 1.

14. R8% x8-WELD TO R*5 WITH ONE LINE OF V4 MAX. FILLET WELD,

N.S. & F.S.

15. R134x30-FIELD WELD TO BAR*3.

16. \$18 & STUDS x 6 \$18 LONG. WELD TO R'S * 13 AND # 14.

17. BLOCK AND BOLT FOR SHIPMENT WITH PIPE SLEEVE AND V2 4" BOLT.

PROVIDE 7/16 & HOLES AT 3-0 CENTERS IN WT # 1 AND L#2 FOR BOLT.

18. 23x2x5/16x RDWY. WIDTH. ONE WELDED FIELD SPLICE WILL BE

PERMITTED. SEE DETAIL * 19. ONE L REQUE EACH ABUT.

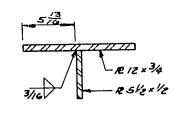
19. 3/8 & STUDS x 4"LONG. WELD TO L'18 AT G"ALTERNATE CENTERS.

20. R 734x4x RDWY. WIDTH. % CONTINUOUS FIELD WELD

TO L #2.

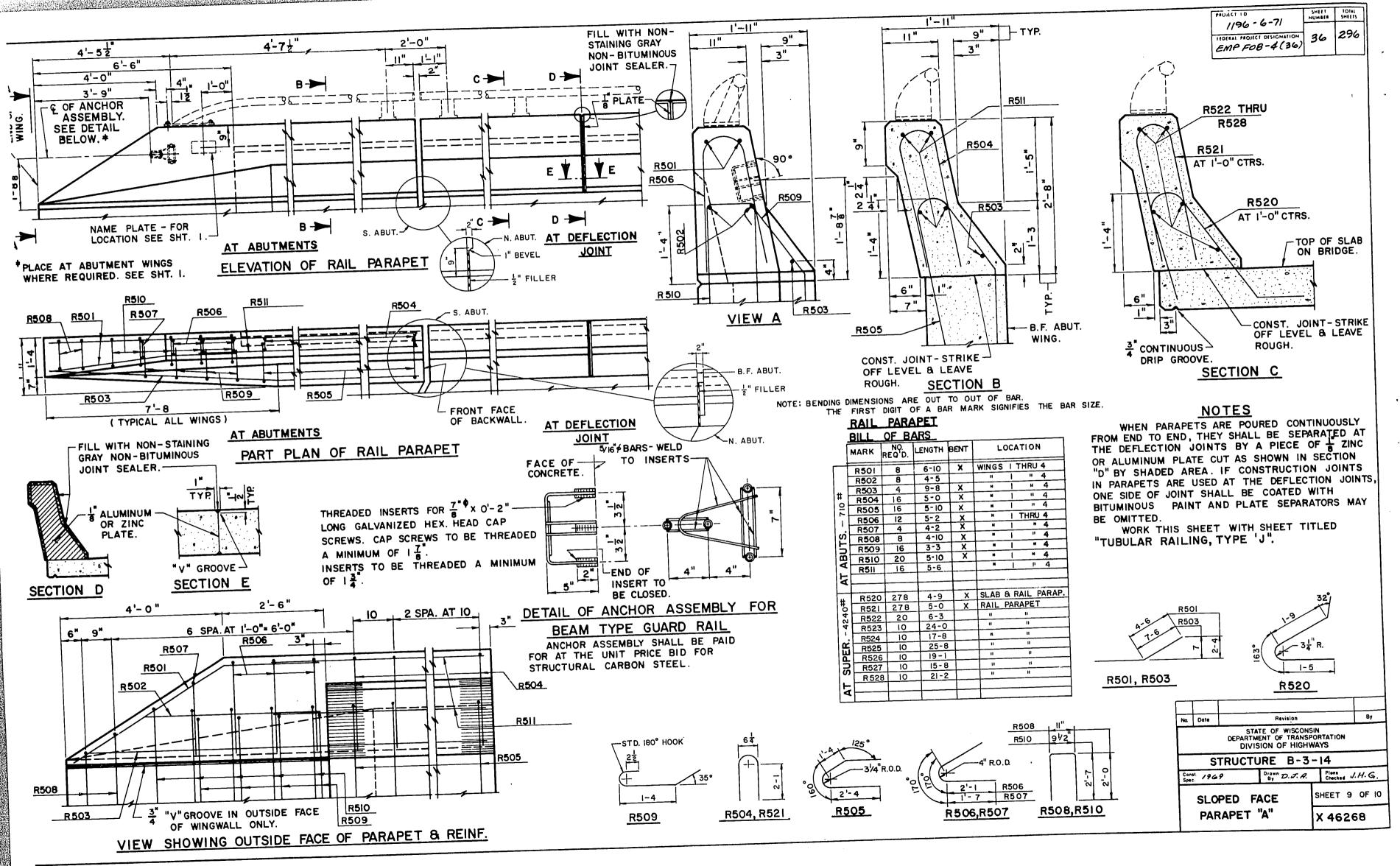
EXPANSION JOINT NOTES

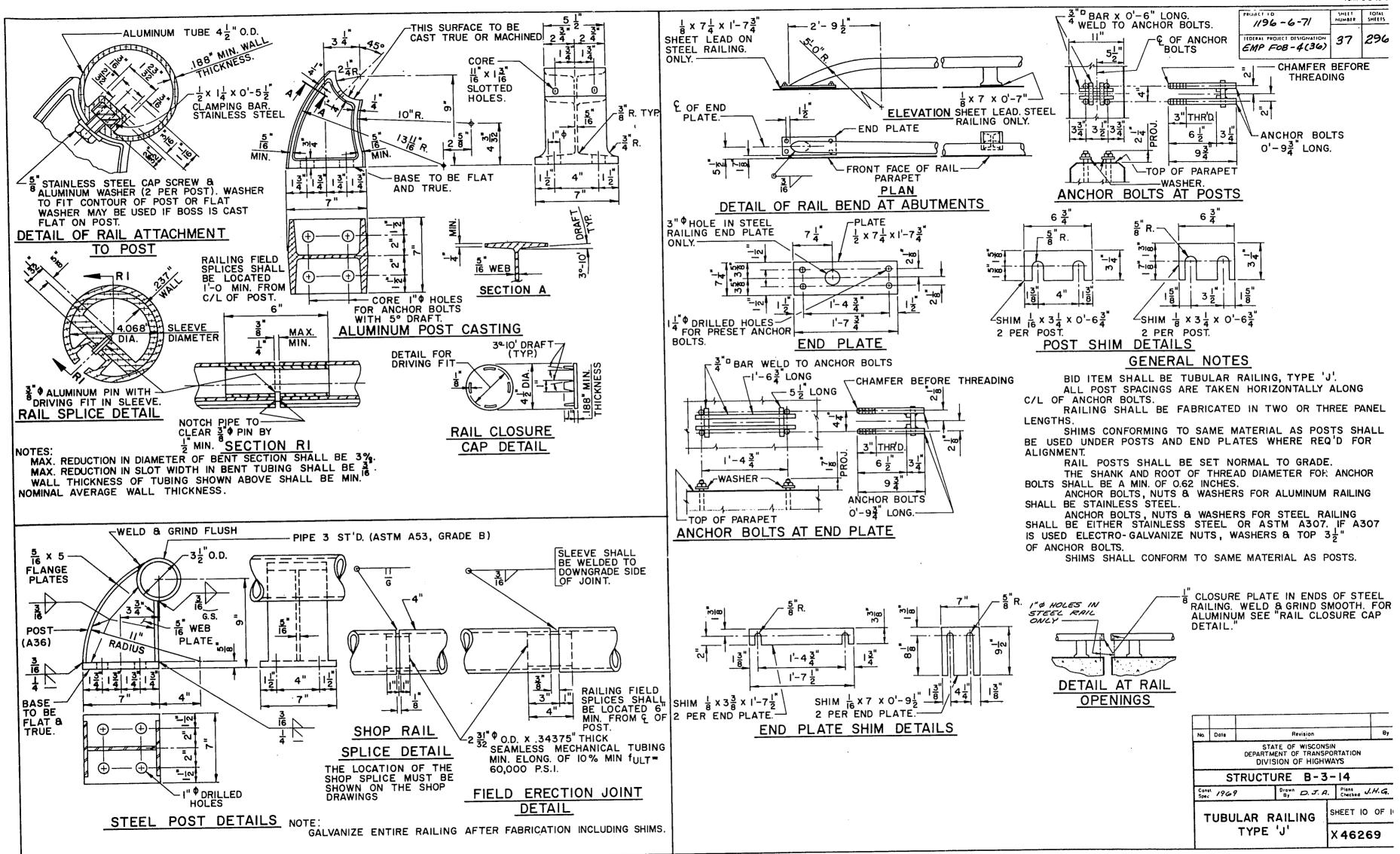
EXPANSION JOINT SHALL BE BUILT TO CONFORM TO ROADWAY EXPANSION VOINT SHALL BE BUILT TO CONTROL TO CONTROL TO CONTROL TO CONTROL TO CONTROL TO CONTROL THE SHALL BE AFTER CONCRETE HAS SET THE JOINT OPENING SHALL BE THOROUGHLY CLEANED AND BOLTS #4 REMOVED AND THE HOLL FILLED WITH HOT POURED ELASTIC JOINT SERIER, APPLY ± 1/6" COAT OF BITUMASTIC TO METAL SURFACES FORMING JOINT AND FILL OPENING WITH HOT POURED ELASTIC JOINT SEALER. ALL MATERIAL SHALL BE PRID FOR AT THE UNIT PRICE BID FOR "STRUCTURAL CARBON STEEL"

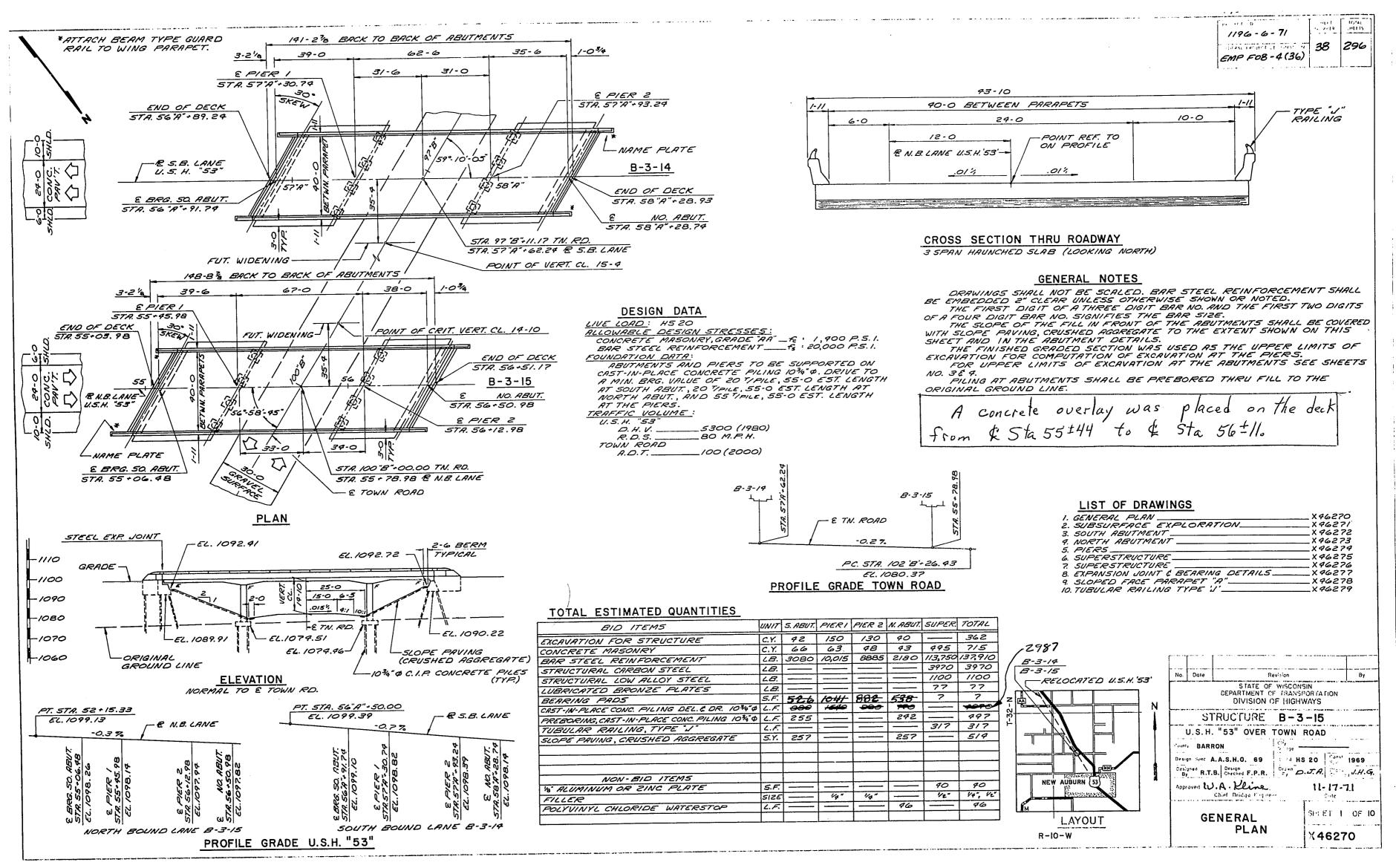


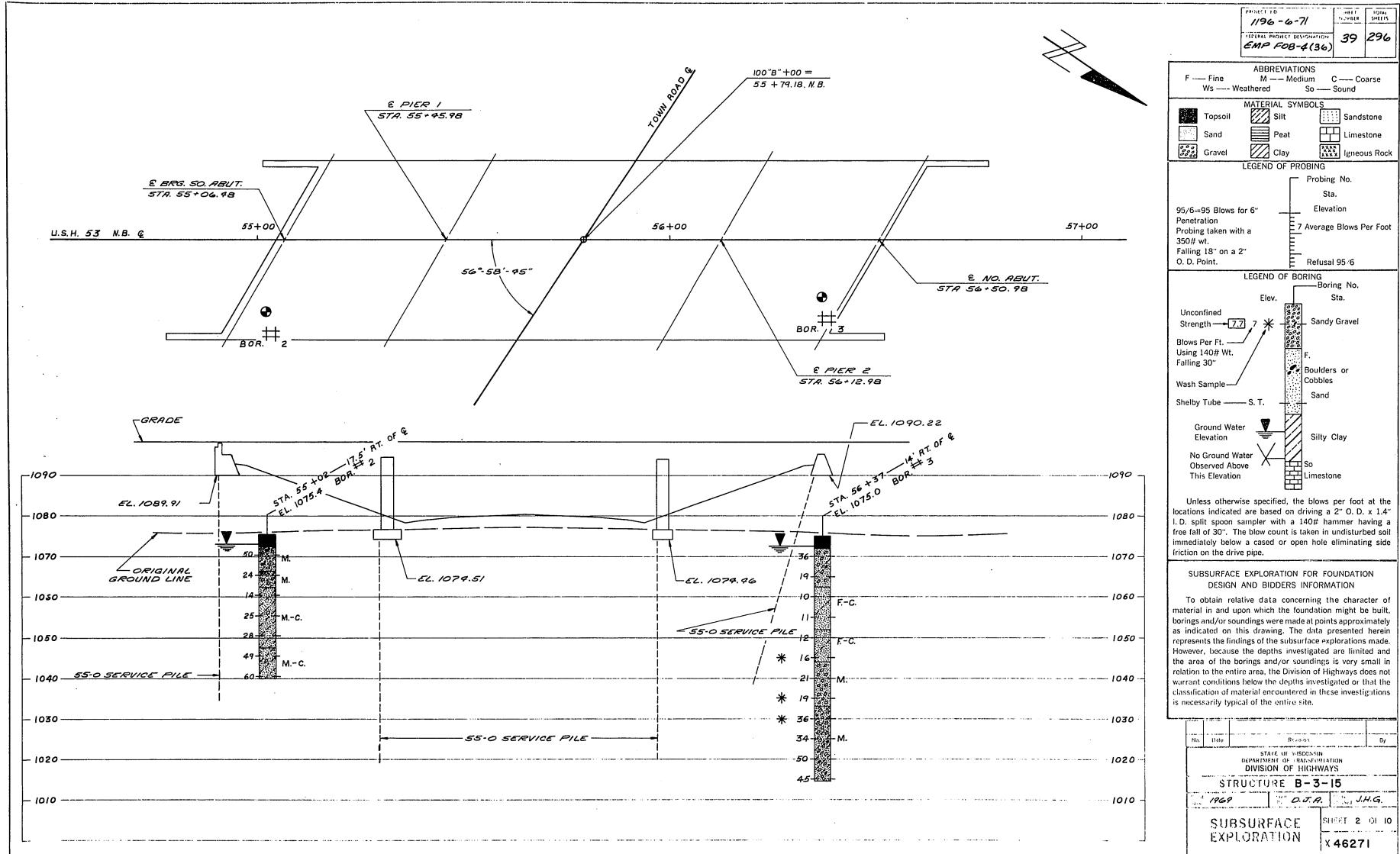
DETAIL A WELOMENT OPTION FOR I

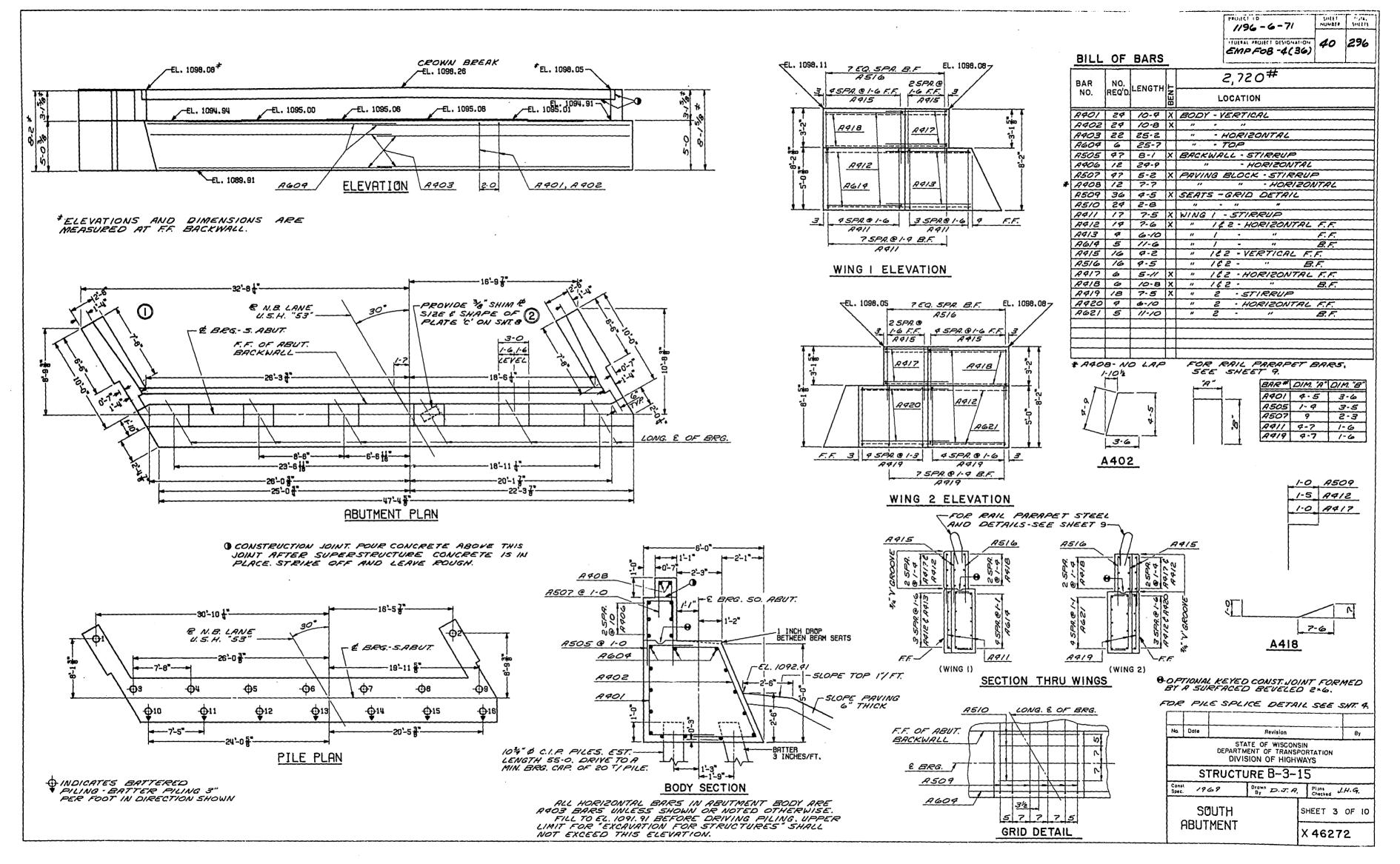
Na.	Date			Revision	_		Ву
-	<u> </u>	DEPAR	TME	E OF WISCONS INT OF TRANSF ION OF HIGH	POF	RTATION YS	
	S.	TRUC	TU	RE B-3	5 -	- 14	
Cont		6 9		B, D. J. A		Plans Checked	J.H.G
	EXPA	_	_	JOINT	s	HEET 8	3 OF
	BEAF	e RING	•	ETAILS	×	462	67

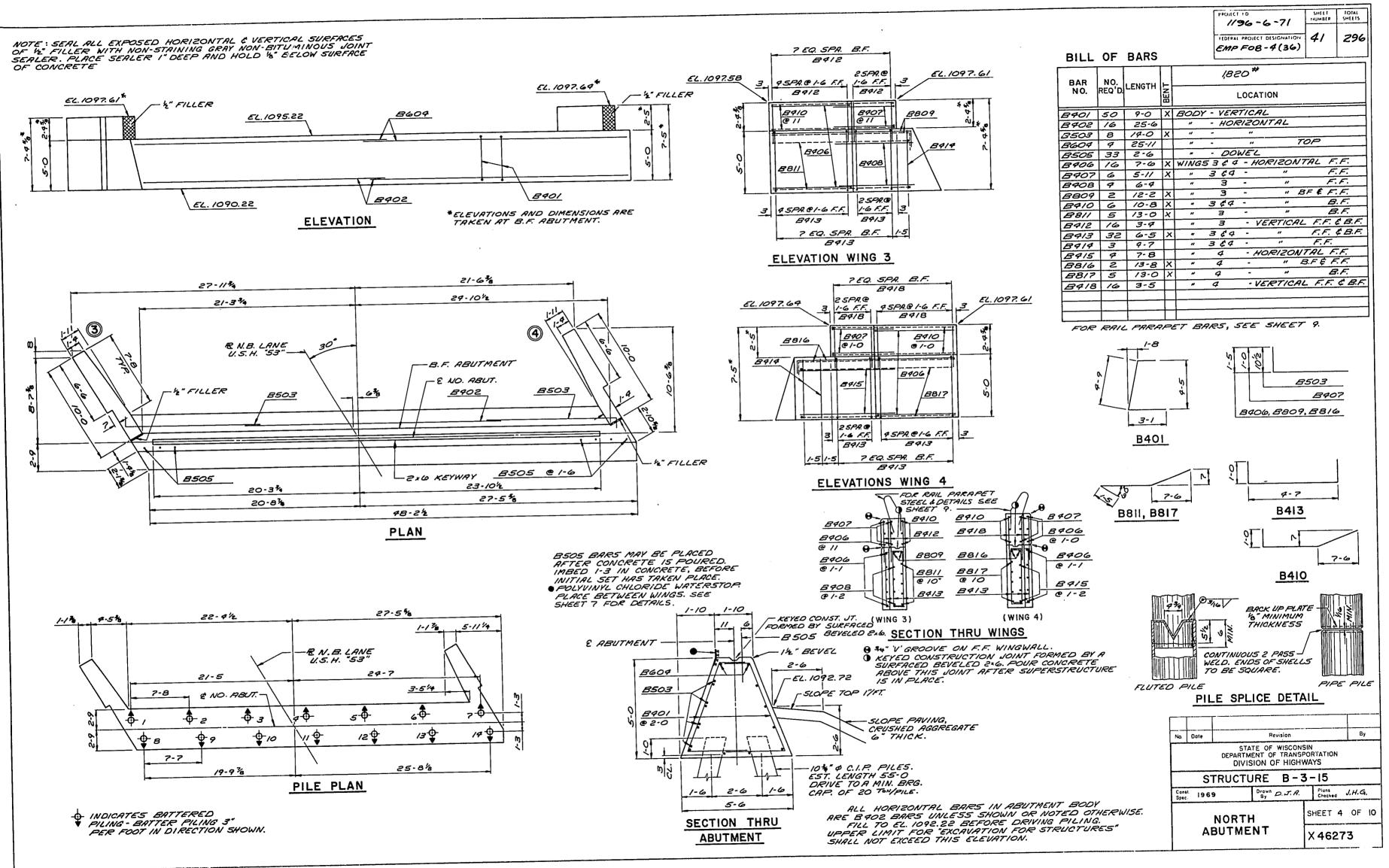


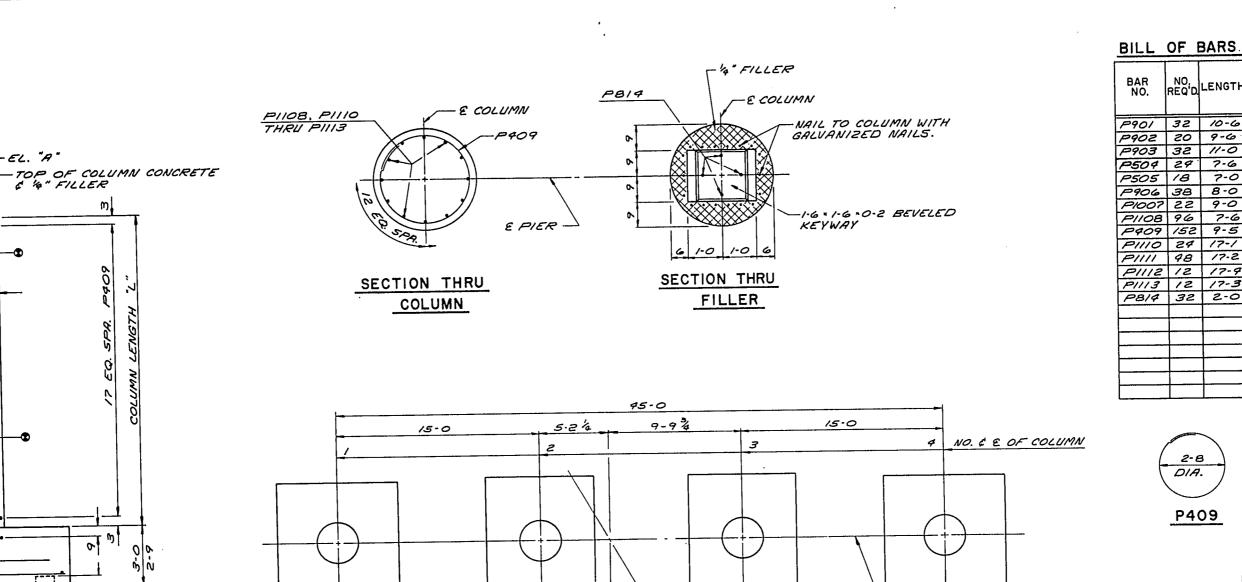




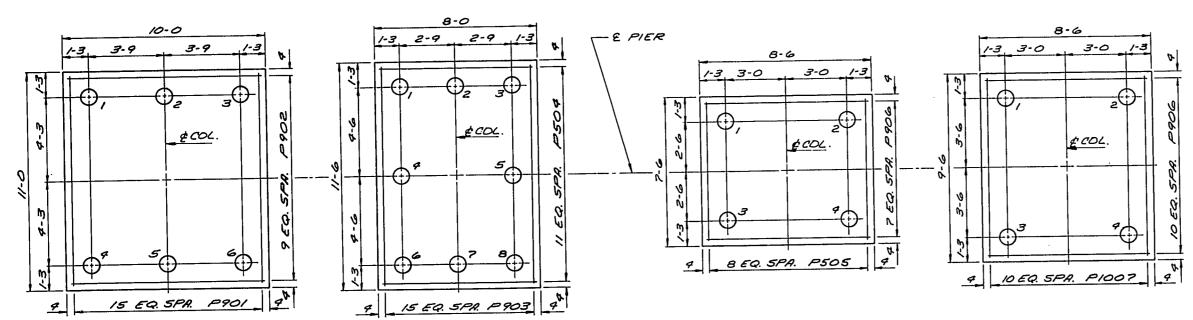








PIER PLAN



INTERIOR FOOTING

— EL. "A"

P814

3-0

PIIIO THRU P1113

E COLUMN

P1108

PIER 1 EL. 1074.51 PIER 2 EL. 1074.46

104" C.I.P. PILING. DRIVE TO A MIN. BRG CAP. OF 55 TONS/PILE. EST. LENGTH 55-0-

TYPICAL COLUMN ELEVATION

EXTERIOR FOOTING

TYPICAL FOOTING PLAN - PIER I

P902, P504 P906 P901, P903 P505, P1007

P\$09

EXTERIOR FOOTING

INTERIOR FOOTING

R N.B. LANE U.S.H. "53"

TYPICAL FOOTING PLAN - PIER 2

HEET PROJECT ID 1196-6-71 296 PEDERAL PROJECT DESIGNATIO 42 EMP FOB -4(36)

BAR	NO.	. ENOTH	F	18,900 [#]					
NO.	REQ'D.	LENGTH	LENGIH	LENGIH	LENGIH	LENGIH	LENGIR	BENT	LOCATION
P901	32	10-6	П	EXTERIOR FOOTINGS - PIER 1					
P902	20	9-6		" "					
P903	32	11-0		INTERIOR " - "					
P504	29	7-6		" "					
P505	18	7-0		EXTERIOR " - " 2					
P906	38	8-0		EXT. & INT. " - " 2					
P1007	22	9-0		INTERIOR " - " 2					
P1108	96	7-6	X						
P409	152	9-5	X						
PIIIO	24	17-1		PIER I, COLUMN I & 4 - VERTICAL					
PIIII	98	17.2		PIER I, COL. 2 & 3, PIER 2, COL. 1 & 4 - VERT.					
PIIIZ	12	17-9		PIER 2, COLUMN 2 - VERTICAL					
P1113	12	17-3		" 2, " 3· "					
P814	32	2-0		COLUMN & SLAB - DOWELS					
	T								
			L						



P1108

P409

ELEVATION AND

COLUMN LENGTH

			ELEV. "A"	LENGTH "L"
	COLUMN	1	1094.76	17-3
L.	"	г	1094.92	17-438
OVER	"	3	1094.90	17-4%
ď,	"	4	1094.79	17-33/8
ď	"	/	1094.56	17-44
ų.	"	2	1094.71	17-6
É	"	3	1094.70	17-51/s
ď	"	4	1094.59	17-4/2

TOP OF COLUMN ELEVATIONS (EL. "A") AND COLUMN LENGTH "L"

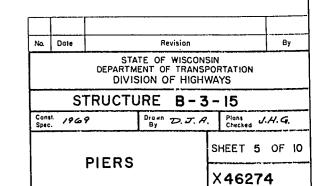
ARE MEASURED AT E PIER AND E COLUMN.

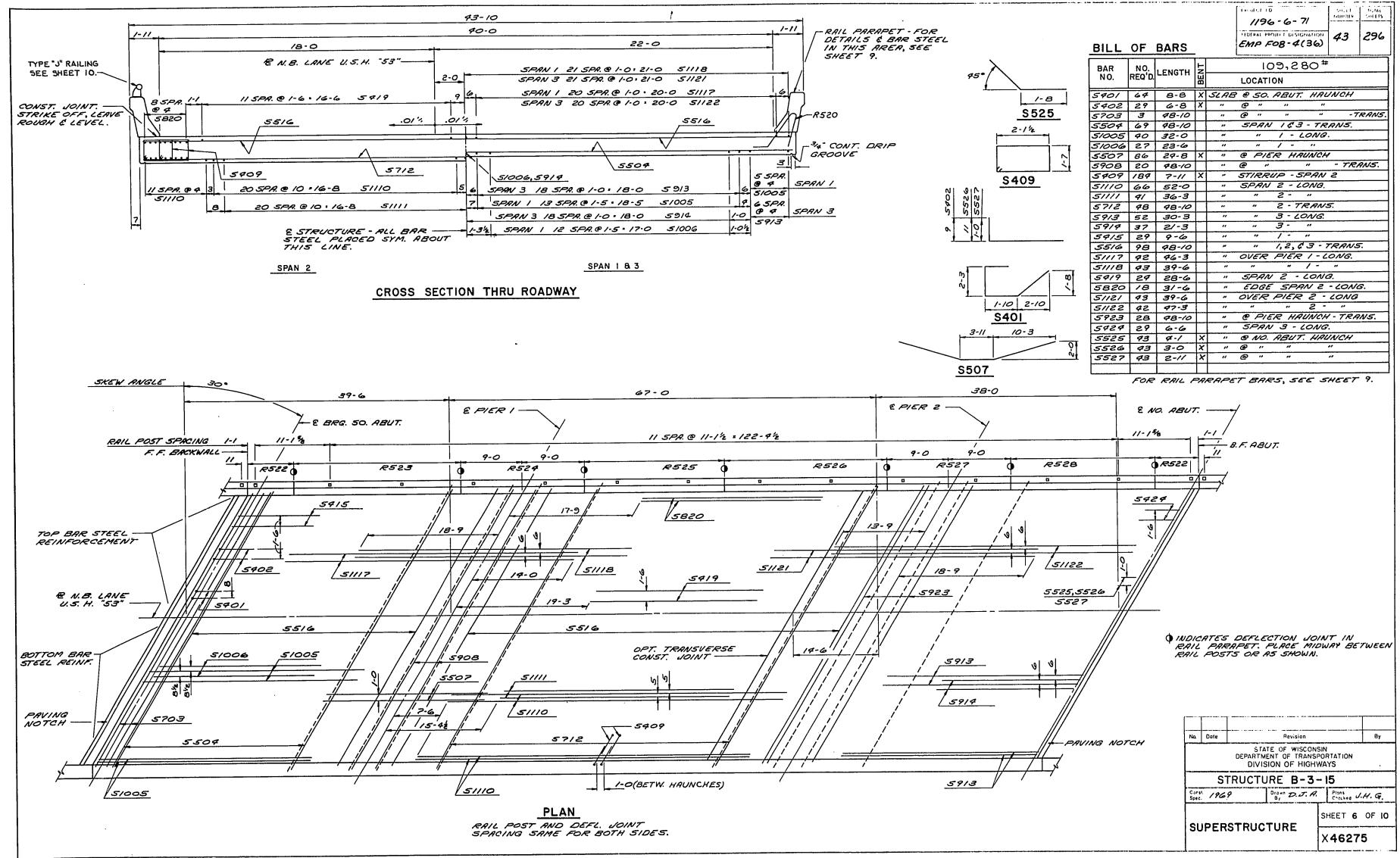
SLOPE TOP OF COLUMN TO MATCH SLOPE OF SUPERSTRUCTURE.

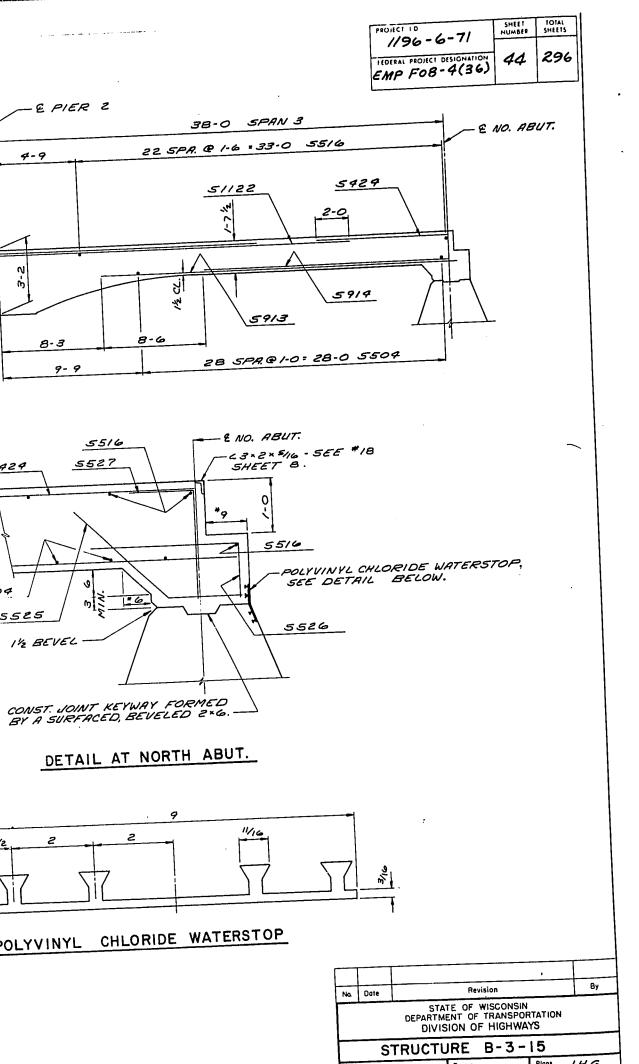
CONSTRUCTION JOINT KEY FORMED BY A SURFACED

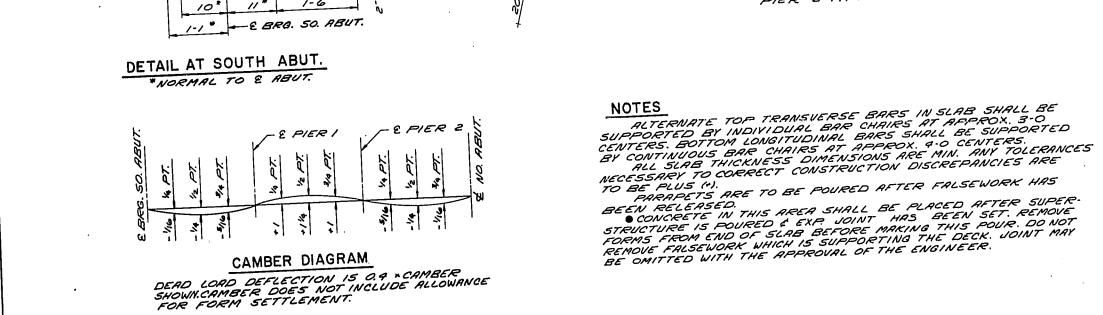
BEVELED 1-6 * 1-6 * 0-2.
P814 BARS MAY BE PLACED AFTER COLUMN CONCRETE IS POURED

BUT BEFORE BEFORE INITIAL SET HAS TAKEN PLACE. FOR PILE SPLICE DETAIL SEE SHEET 4.









4-9

8.0

1-10

10-0

5415

5402

- E BRG. 50. RBUT.

5415

51006

5401

5504

39-6 SPAN 1

51117

21 SPA. @ 1-6: 31-6 5516

51005

5703

27 SPA.@1-0:27-0 5504

E PIER I

25PA.@ 2.0 TYP

8-3°

1-10

67-0 SPAN 2

39 SPA. @ 1-6 = 58-6

51110

LONGITUDINAL SECTION

-E PIER

-SPAN 2-

5507

8-3°

13 SPR. 6 6: 6.6

5923

1-60

5908

95PA.@9

3-6

HAUNCH DETAIL PIER 1 SHOWN PIER 2 TYPICAL

A NORMAL TO & PIER PARALLEL TO & ROWY.

≥.0

51118

5516

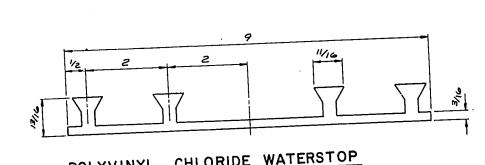
51111

5419

47 SPA. @ 1-0: 47-0 5712

51121

1-6/2



POLYVINYL CHLORIDE WATERSTOP

E PIER Z

4-9

8-3

5424

5504

5525

1/2 BEVEL

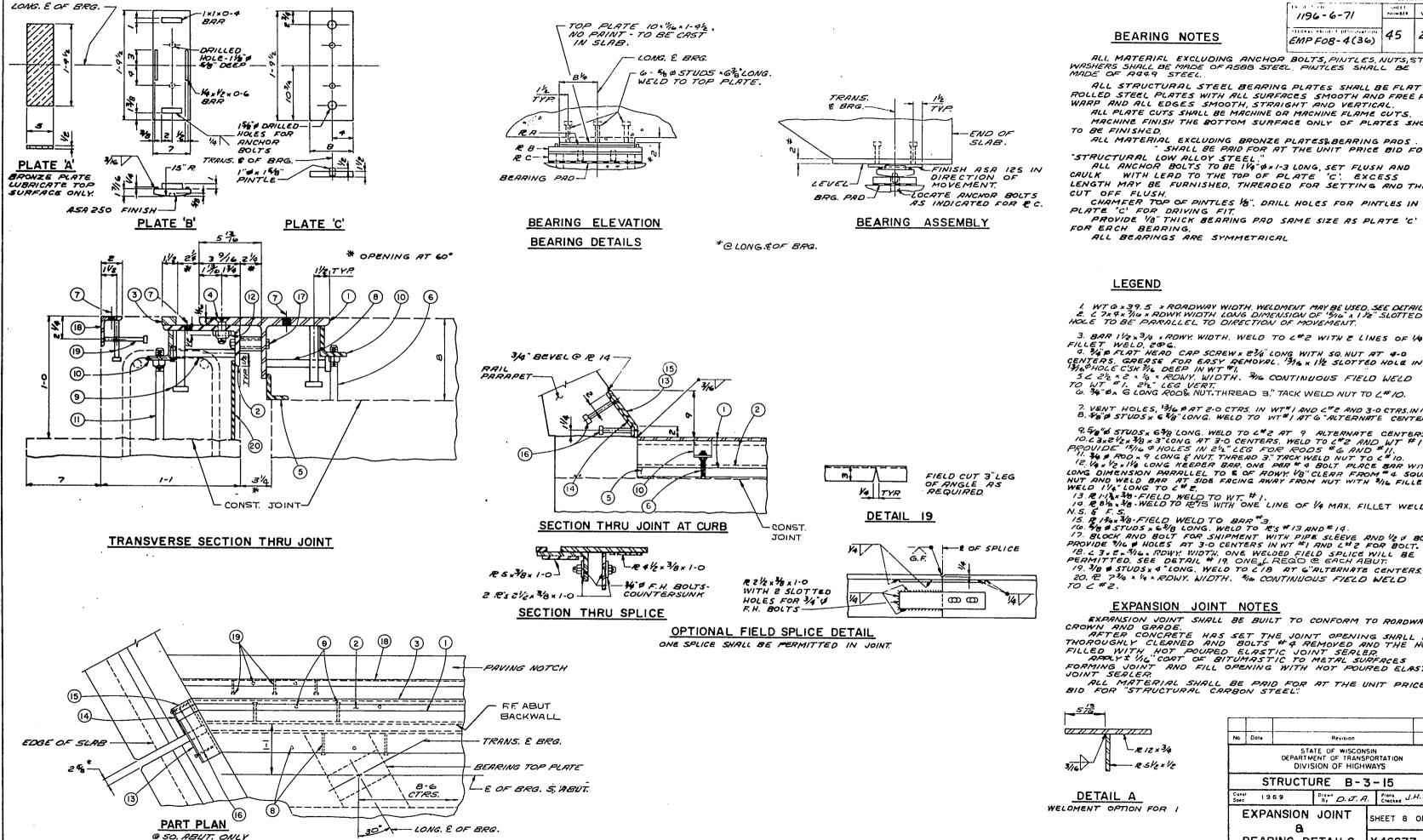
9-9

5516

5527

-OPT. TRANS. CONST. JT. FORMED WITH A SURFACED, BEVELED

Date		Revision				Ву		
<u> </u>	DEPARTME	ENT OF TRANS	POF	RTATION				
STRUCTURE B-3-15								
st. 1969)	Drawn D. J. A	·.	Plans Checked	J.	H.G		
			s	HEET	7	OF	10	
UPE	RSTRUC	TURE	;	X 46	27	6		
	S. 1969	STA DEPARTM DIVIS STRUCTU	STATE OF WISCON DEPARTMENT OF TRANS DIVISION OF HIGH STRUCTURE B-3	STATE OF WISCONSIN DEPARTMENT OF TRANSPORT DIVISION OF HIGHWAS STRUCTURE B-3- LIPERSTRUCTURE B-3- STRUCTURE	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STRUCTURE B-3-15 The property of the pr	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STRUCTURE B-3-15 The property of the pr	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STRUCTURE B-3-15 Plone By D. J. R. Plone Checked J.H.G. SHEET 7 OF	



BEARING NOTES

1196-6-71	SHIFT NUMBER	TOTAL SHEETS
EMP F08-4(36)	45	296

ALL MATERIAL EXCLUDING ANCHOR BOLTS, PINTLES, NUTS, STUDS WASHERS SHALL BE MADE OF ASBB STEEL PINTLES SHALL BE MADE OF AGAG STEEL

ROLLED STEEL PLATES WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

MACHINE FINISH THE BOTTOM SURFACE ONLY OF PLATES SHOWN TO BE FINISHED. ALL MATERIAL EXCLUDING BRONZE PLATES& BEARING PADS

SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STRUCTURAL LOW ALLOY STEEL." ALL ANCHOR BOLTS TO BE IV4" # x 1-3 LONG, SET FLUSH AND

WITH LEAD TO THE TOP OF PLATE 'C' EXCESS LENGTH MAY BE FURNISHED, THREADED FOR SETTING AND THEN CUT OFF FLUSH

CHAMFER TOP OF PINTLES 18". DRILL HOLES FOR PINTLES IN PLATE 'C' FOR DRIVING FIT. PROVIDE 18" THICK BEARING PAO SAME SIZE AS PLATE 'C' FOR EACH BEARING.

ALL BEARINGS ARE SYMMETRICAL

LEGEND

- 1. WT G x 39.5 X ROADWAY WIDTH, WELDMENT MAY BE USED, SEE DETAIL A. E. C 7x 4x 1/6 x ROWY. WIDTH. LONG DIMENSION OF '9/6" x 1 1/2" SLOTTED HOLE TO BE PARALLEL TO DIRECTION OF MOVEMENT.
- 3. BAR IV2 x 3/4 x ROWY. WIOTH, WELD TO L#2 WITH & LINES OF 1/4 FILLET WELD, 2006.
- 4. 14 & FLAT HEAD CAP SCREW x 23 LONG WITH SO NUT AT 4-0 CENTERS. GREASE FOR EASY REMOVAL. 136 x 1/2 SLOTTED HOLE IN 2"2. 13/6"HOLE C'SK 1/4 DEEP IN WT "1.
- 56 26 x 2 x 4 x ROWY. WIDTH. THE CONTINUOUS FIELD WELD ON MIT #1. 24" LEG VERT.

 6. 34 * 0 x 6 LONG ROOM NUT THREAD 3." TACK WELD NUT TO L#10.
- 7. VENT HOLES, THE PAT 2-O CTRS. IN WIT I AND CTE AND 3-O CTRS. IN B. S. FB STUDS X & VB LONG. WELD TO WIT AT G ALTERNATE CENTERS.
- 9.5% & STUDS & 638 LONG. WELD TO L 2 AT 9 RITERNATE CENTERS.

 10.63x2½x 38 x 3"LONG AT 3-0 CENTERS. WELD TO L 2 AND WT #1

 PROVIDE 15/16 & HOLES IN 2½" LEG FOR RODS #6 AND #11.

 11. 34 \$ ROD & 9 LONG & NUT THREAD 3" TACK WELD NUT TO L #10.

 12. 14 \$ ½x 1½x LONG KEEPER BAR, ONE PER # 4 BOLT PLACE BAR WITH

 LONG DIMENSION PARALLEL TO & OF ROWY. 18" CLEAR FROM #4 SOURRE

 NUT AND WELD BAR AT SIDE FACING AWAY FROM NUT WITH 3/16 FILLET

 WELD 1½ LONG TO L #2.

 13. R 1-12 * 30 FIELD WELD TO WT. #1.

 14. R 8 & 36 WELD TO R 9/5 WITH ONE LINE OF ½ MAX. FILLET WELD,

 N.S. & F. S.

 15. R 1-2 * 34 FIELD WELD TO ROPE #2.
- N.S. & F. S.
 15. R 194. 38- FIELD WELD TO BAR #3.
 16. R 194. 38- FIELD WELD TO BAR #3.
 16. PS & STUDS x 6 98 LONG. WELD TO R'S # 13 AND # 14.
 17. BLOCK AND BOLT FOR SHIPMENT WITH PIPE SLEEVE AND 12 & BOLT.
 PROVIDE 7/16 & HOLES AT 3-0 CENTERS IN WT #1 AND L#2 FOR BOLT. 18.23 & S. SIG. ROWK WIDTH, ONE WELDED FIELD SPLICE WILL BE PERMITTED, SEE DETAIL # 19. ONE L REQUE GACH ABUT. 19. 18 & STUDS X 4" LONG, WELD TO 218 AT G"ALTERNATE CENTERS.

20. E 73/4 x 1/4 x RDWY. WIDTH. 4/4 CONTINUOUS FIELD WELD TO 6#2.

EXPANSION JOINT NOTES

EXPANSION JOINT SHALL BE BUILT TO CONFORM TO ROADWAY CROWN AND GRADE AFTER CONCRETE HAS SET THE JOINT OPENING SHALL BE THOROUGHLY CLEANED AND BOLTS # 4 REMOVED AND THE HOLES FILLED WITH HOT POURED ELASTIC JOINT SERIER APPLY I'L CORT OF BITUMASTIC TO METAL SURFACES FORMING VOINT AND FILL OPENING WITH HOT POURED ELASTIC

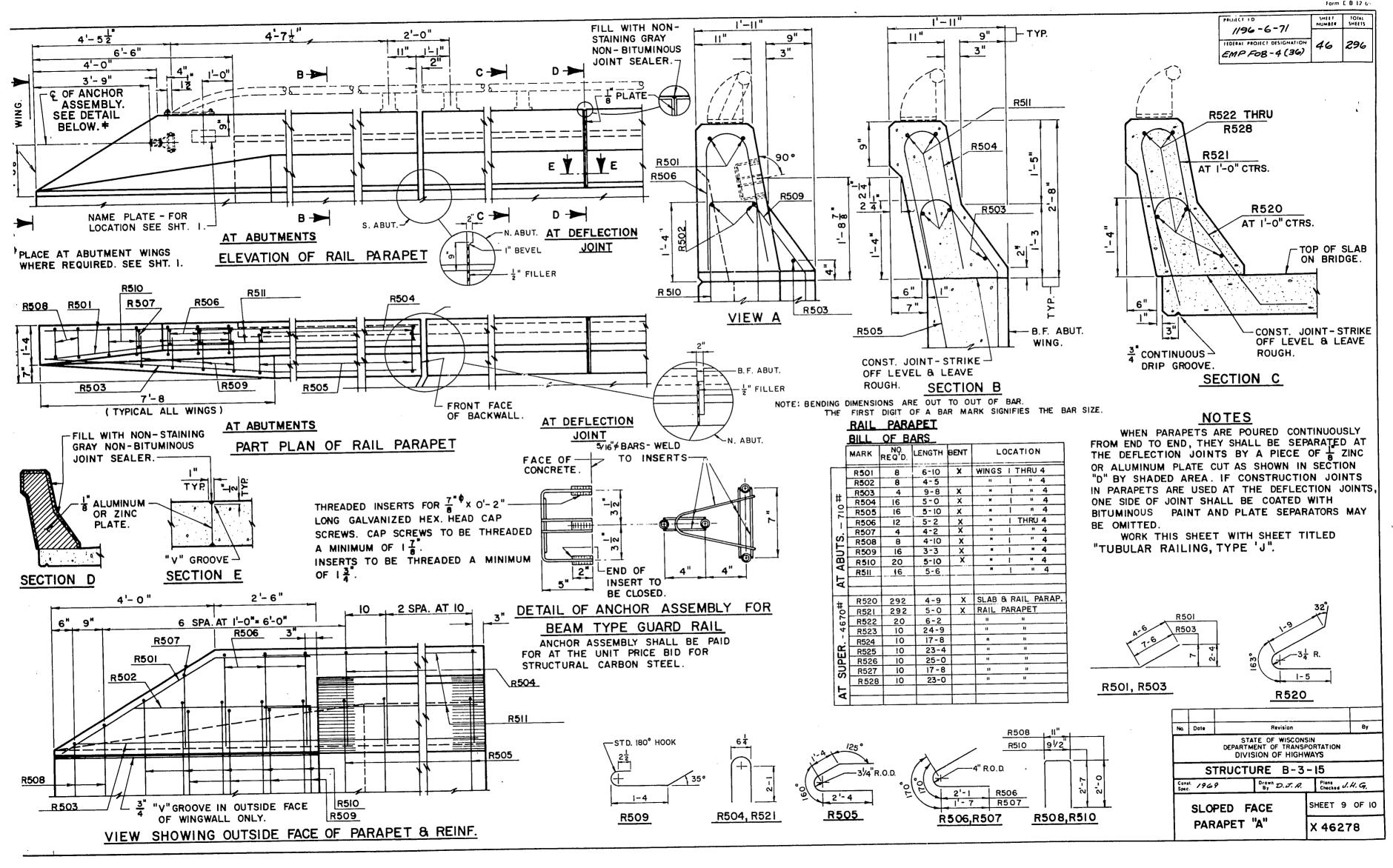
ALL MATERIAL SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STRUCTURAL CARBON STEEL"

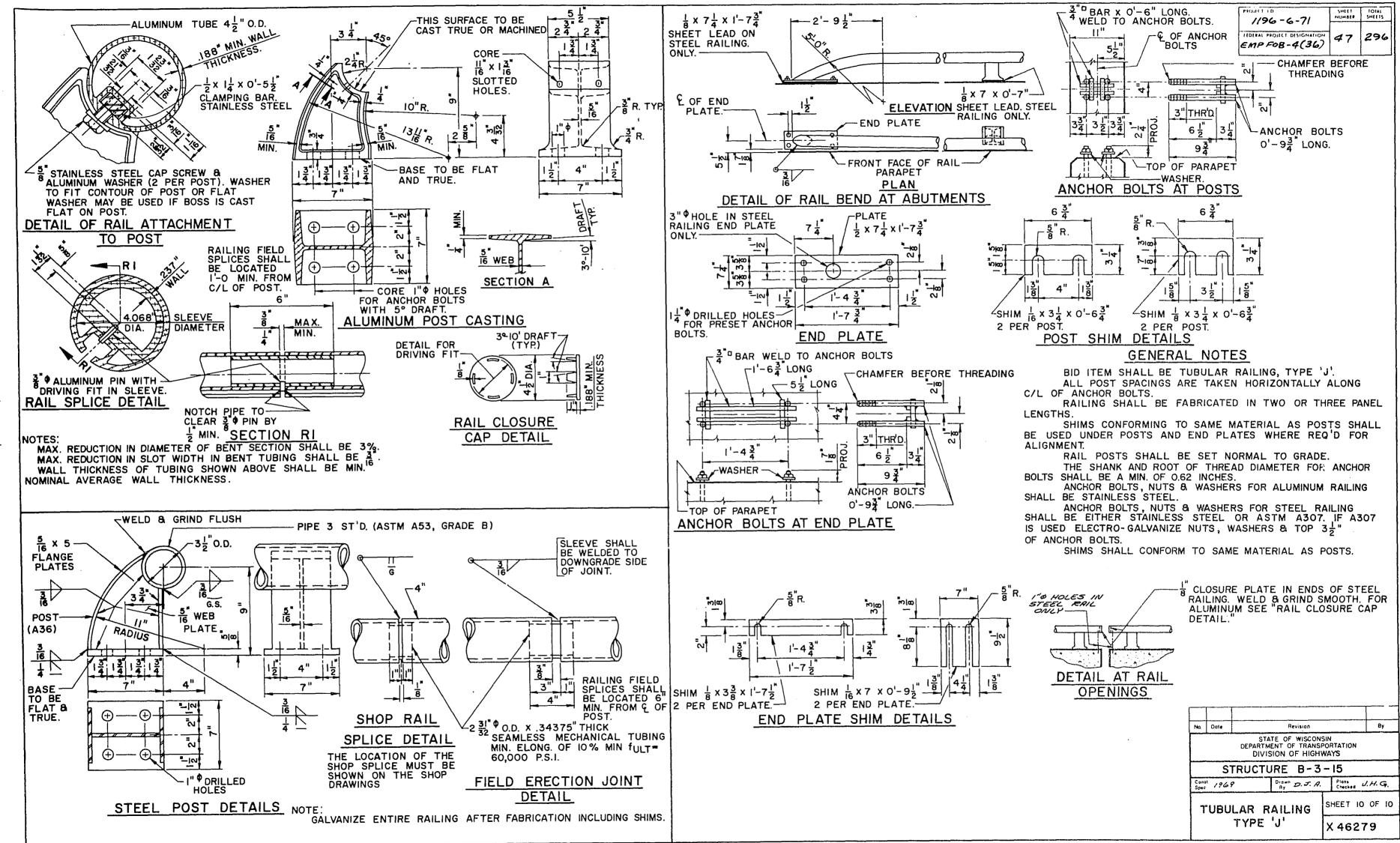
DETAIL A WELOMENT OPTION FOR Na Date STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

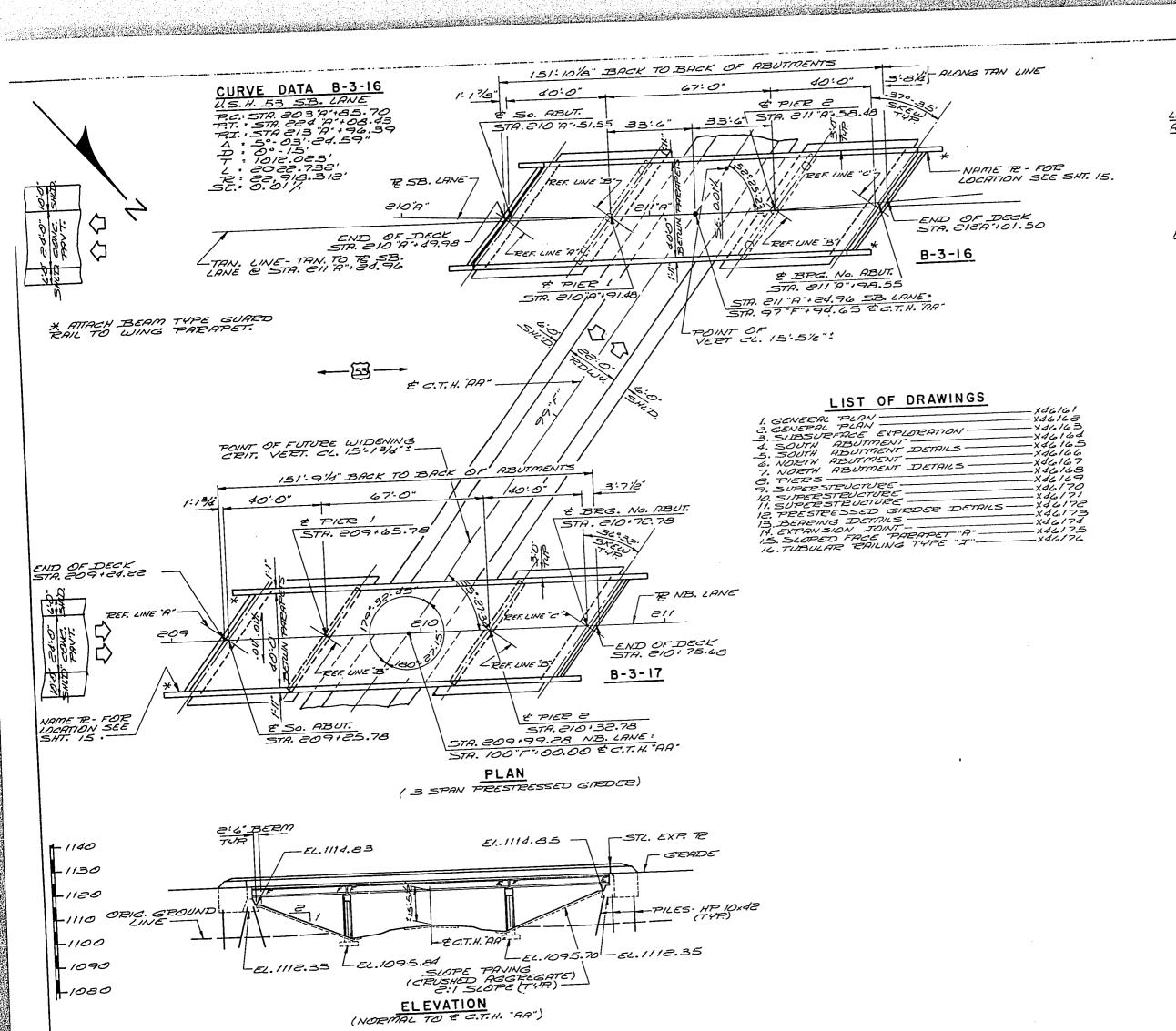
STRUCTURE B-3-15 1969 B, D. J. A. Plans J.H.G.

EXPANSION JOINT SHEET 8 OF ID

BEARING DETAILS X46277







1196-6-76 48 296 HOLPAL PROJECT DESIGNATION EMP FOB -4(36)

DESIGN DATA

LIVELOAD: HS-20 CONCRETE MASONRY GRADE "AA" SLAB - fo: 1,000 P.S.I.
BAR STEEL REINFORCEMENT - fs: 20,000 P.S.I. ALLOWABLE DESIGN STRESSES: A: 20,000 P.S.I. · fé 6,000 P.S.I. -270,000 P.S.I.

SUPPORT ABUTMENTS ON HPIO, 42 STEEL "H" PILES. EST.

SUPPORT ABUTMENTS ON HPIO, 42 STEEL "H" PILES. EST.

25.0" LONG, I DRIVEN TO A MIN. BEG. VALUE OF 55T/PILE.

SUPPORT PIERS ON SPREAD FOOTINGS WITH A MINIMUM

SUPPORT PIERS ON SPREAD FOOTINGS WITH A MINIMUM

ALLOWABLE BEG. PRESSURE OF 2/6T/ SQ. FT.

GENERAL NOTES

DEPUMS SHALL NOT BE SCALED.

DRAWINGS SHALL NOT BE SCALED.

DRAW STELL REINFORCEMENT SHALL BE EMBEDDED 2"

CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CLEAR UNLESS OTHERWISE PADS NEED NOT BE INDIVIDUALLY

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY

MOLDED PROVIDED THE CUT EDGES ARE SMOOTH & TRUE.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENT

TO THE EXTENT SHOWN ON THIS SHT. & IN THE ABUTMENT

TO THE EXTENT SHOWN ON THIS SHT. & IN THE ABUTMENT

UPPER LIMITS OF EXCAVATION WAS USED AS THE

EXCAVATION QUANTITIES OF "EXCAVATION FOR STRUCTURES"

FOR THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES"

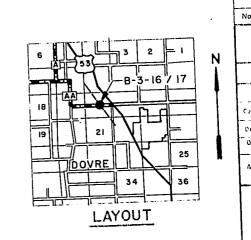
FOR THE ABUTMENTS SHALL BE THE BOTTOM OF THE SLOPE

PROTECTION & THE QUANTITIES WERE COMPUTED FROM

THIS LIME. THIS LINE. SHALL CONFORM TO THE REQUIREMENTS OF R.A. S.H.O. FILLER SHALL CONFORM TO THE REQUIREMENTS OF R.A. S.H.O. DESIGNATION MISS OR MEIS.

> TRAFFIC VOLUME U.S.H. 53 A.D.T. = 5300 (1980)

C.T.H. "AA" A.D.T. . 250 (1980)



ì	- 1	l						
-	No.	Date		Re	vision			Ву
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ìt		Si	RUCT	JRE	B-3		-	
•	U	. S. F	1. 53	OVEF	₹ C.	T.H	'AA"	
	County	ВА	RRON		City Village	TN.		·
1	Desyn	Spec.	A.A.S.H.O.	1969	Load	HS-20	Corst. Spec.	1969
	Design	ed G.H	.A. Design Checked	R.L.P.	By	BUDD	Plans Checke	& G.H.A.
•		zed L	Chief Brid	ge Engine	er		2.71 Date	
Ì					A NI	SHE	ET I	OF 16
	(BEN	ERAL	ΡL	AN	X	161	61

49

PROJECT ID

1196-6-76

PEDERAL PROJECT DESIGNATION

EMP FOB-4(36)

TOTAL ESTIMATED QUANTITIES

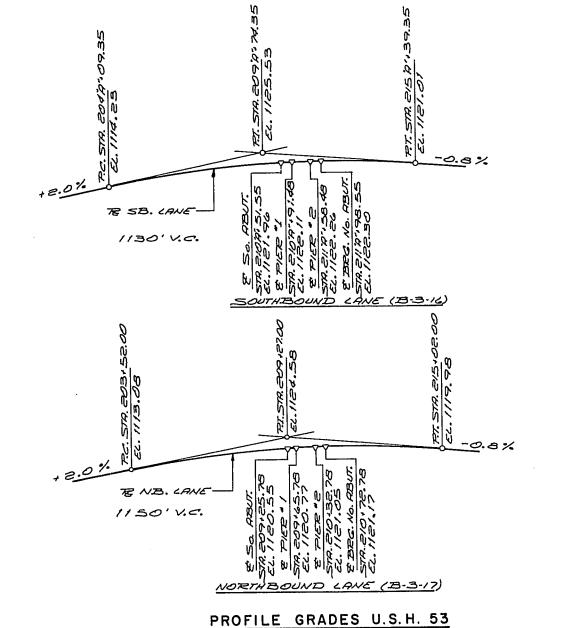
BID ITEMS	UNIT	SUPER.	SO. ABUT.	PIER 1	PIERZ	No. ABUT.	TOTAL
XCAVATION FOR STRUCTURES	c. 4.		45	150	150	50	3 95
CONCRETE MASONRY	0.4.	266.4	60.0	69.3	69.3	92.0	557.0
PESTEESSED GIRDERS, I TYPE 45"	2.F.	590		13,590	13.590		590
BAR STEEL REINFORCEMENT	LBS.	61,090	2,700	٥٠٠٠٥	مصبت	3,730	tetato
STRUCTURAL CARBON STEEL		3,780					3,780
TRUCTURAL LOW ALLOY STEEL	ZBS.	2.070					2.070
UBRICATED BRONZE PLATES	LB5.	190					190
BEARING PADS	S.F.	17					/7
BEARING PADS, ELASTOMERIC	S.F.	19			<u> </u>		19
STEEL PILING, DELINERED ! DRIVEN HP 10 x 40	2. F.		403			391	794
TUBULAR RAILING, TYPE "I"	L.F.	332					_3.3.2
SLOPE PAVING, CRUSHED AGGREGATS	5.4.		255			256	5//
NON-BID ITEMS							
ALUMINUM OF ZINC PLATE	S.F.	·					-35
POLYVINYL CHLORIDE WATERSTOP	12.F.		55			.59	114

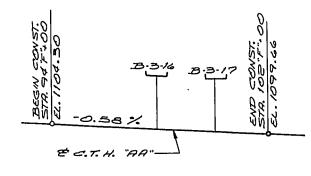
94,700

BAR STEEL QUANTITY WAS DOUBLED ON THE PLAN

43: 10" 40:0" BETWN. PREAPETS 1:11: 18:0 22:0" TYPE "I" RAKING -TAN. LINE TO R SB. LANE POINT BEF. TO ON PROFILE GRADE 1:0" TE SB. LANE 9" SLAB SE. O.01% - 45" PRESTRESSED GIRDERS. 3 SPA. @ 11-9": 35-3" -KEY FIGS A MIN. OF I'O" INTO SOUND FOCK XXXXXXXX

CROSS SECTION THRU ROADWAY LOOKING NORTHWEST





PROFILE GRADE C.T.H. "AA"

Na Date Revision By

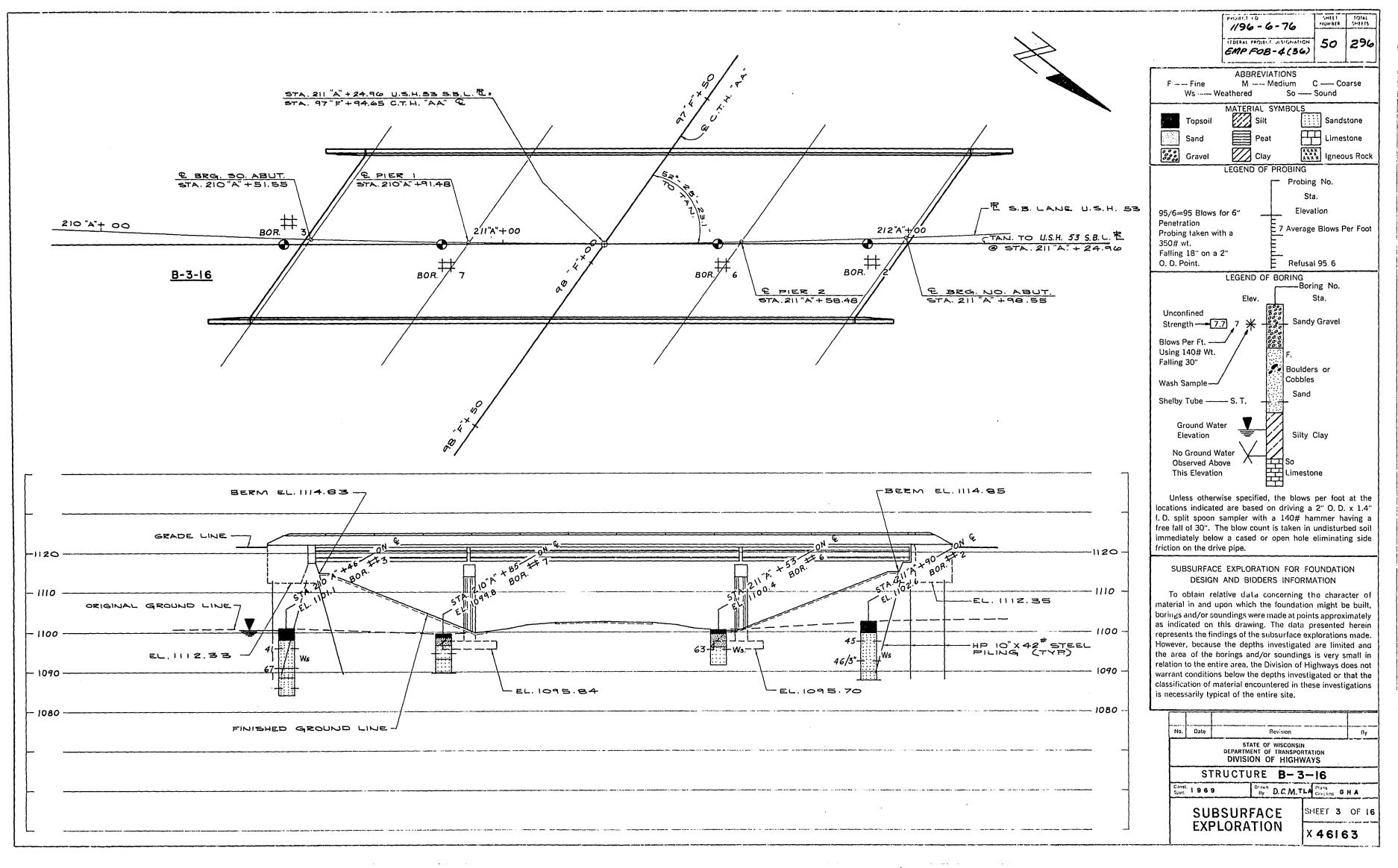
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

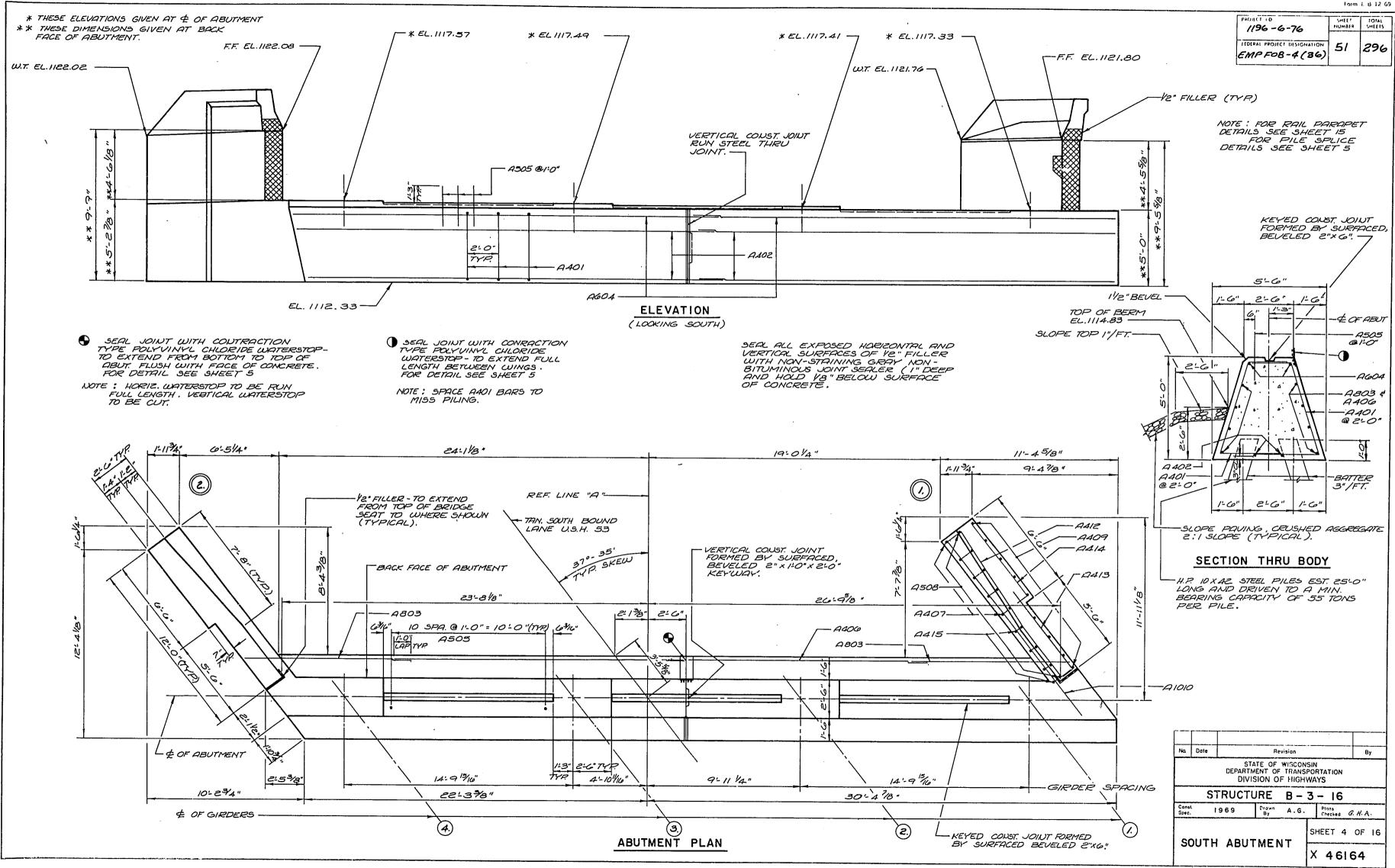
STRUCTURE B-3-16

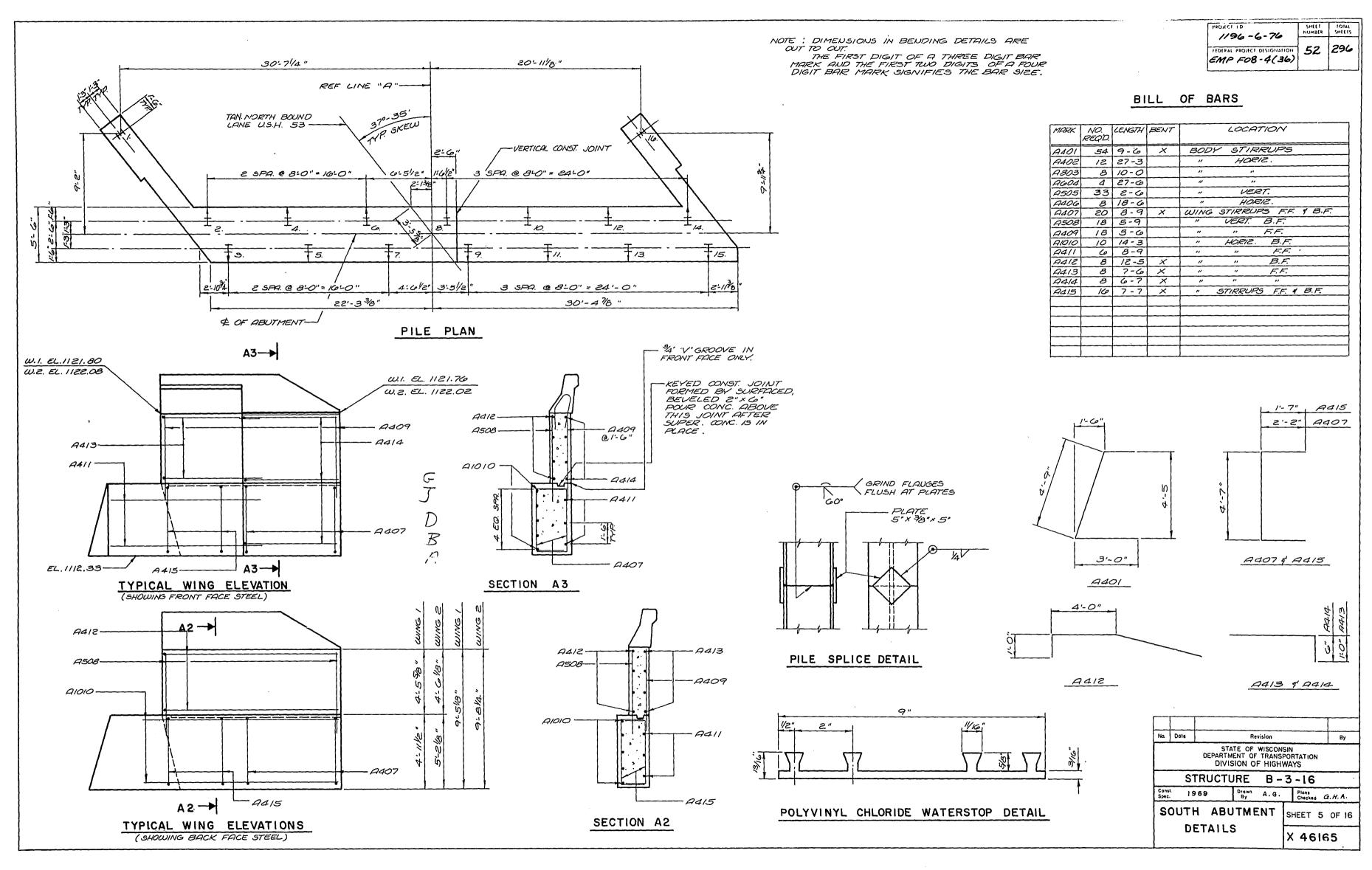
Const. 1969 Drawn BUDD Plans
Spec. 1969 BUDD Checked G. H. A.

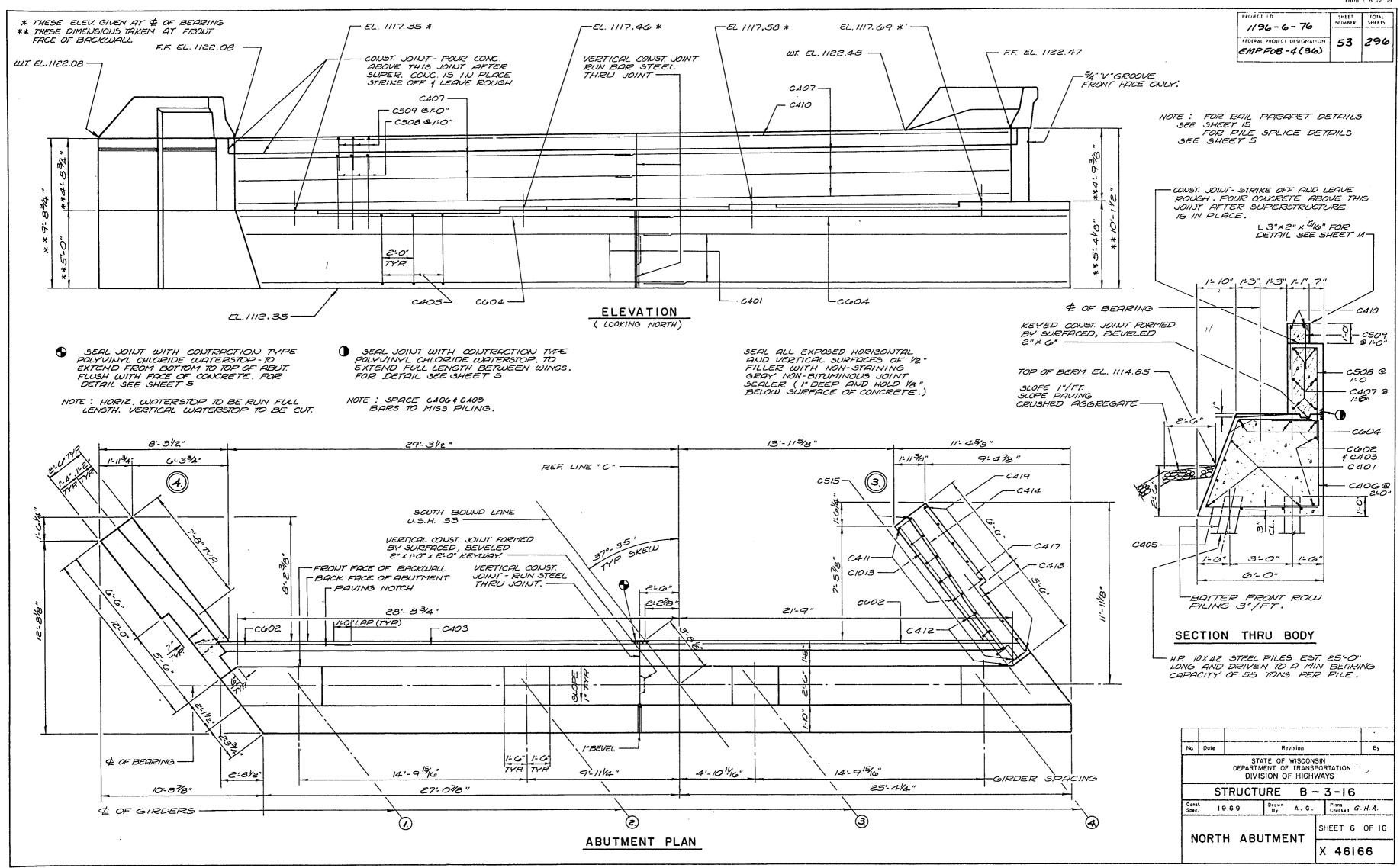
SHEET 2 OF 16

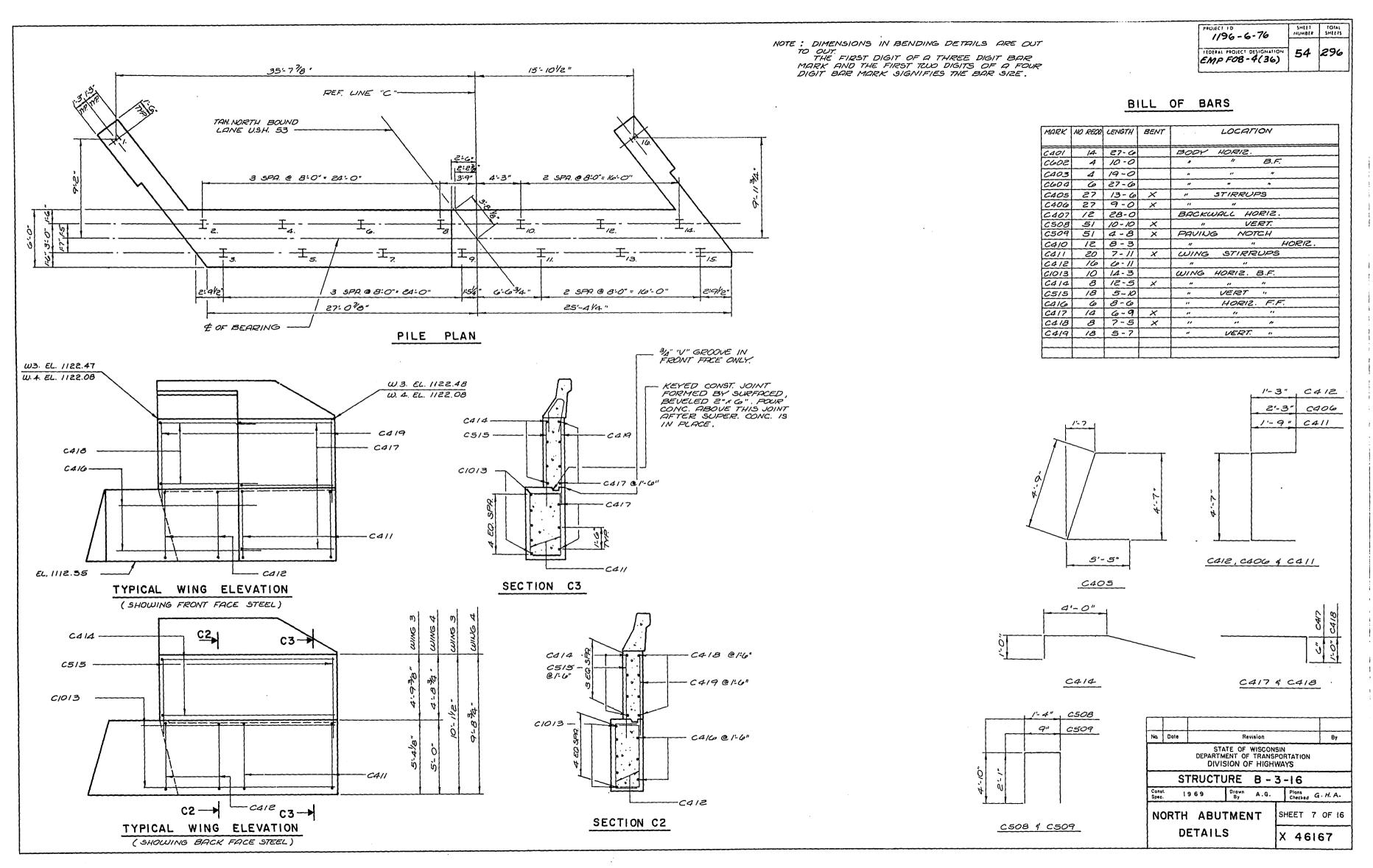
X 4 6 1 6 2

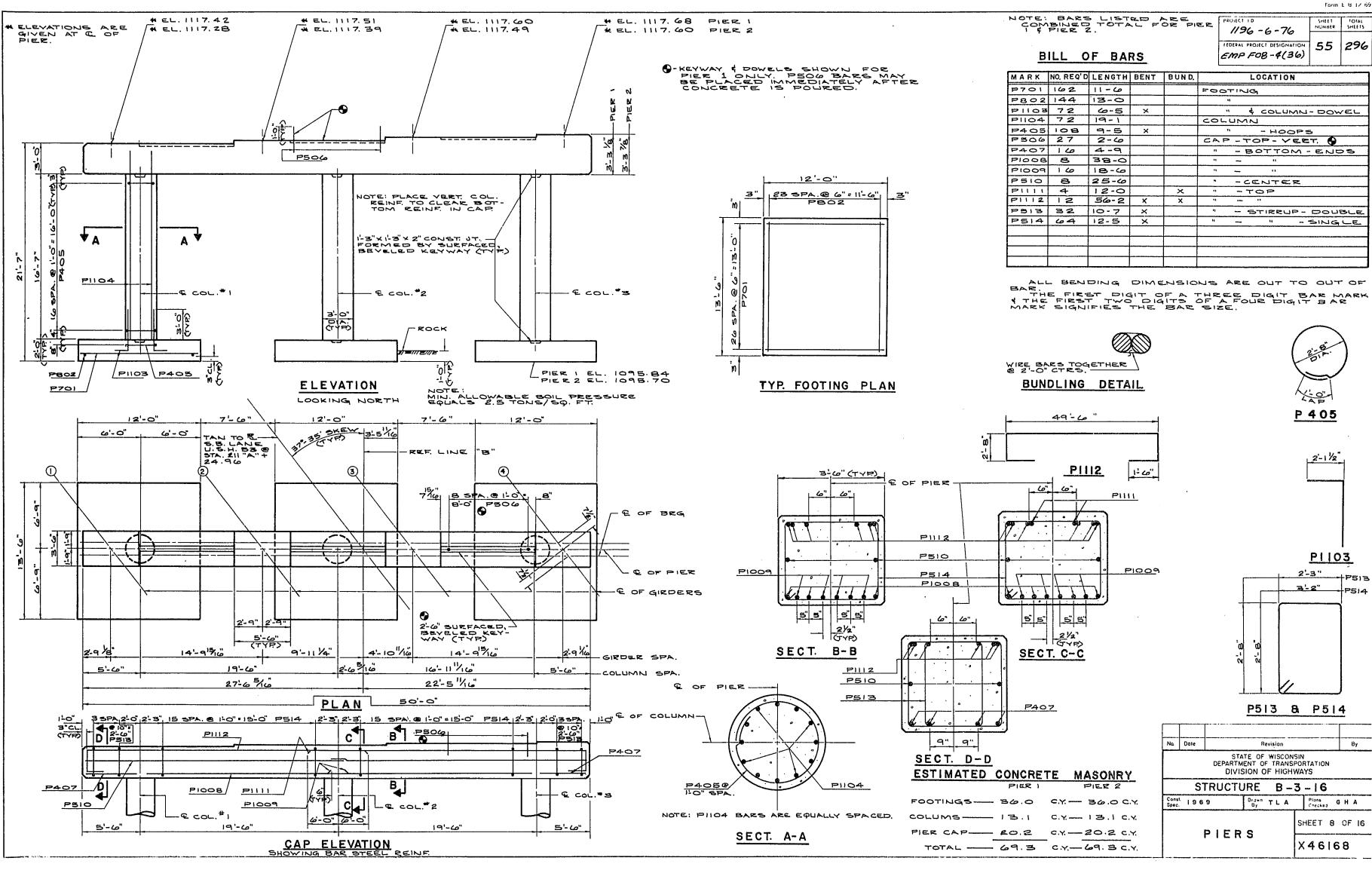


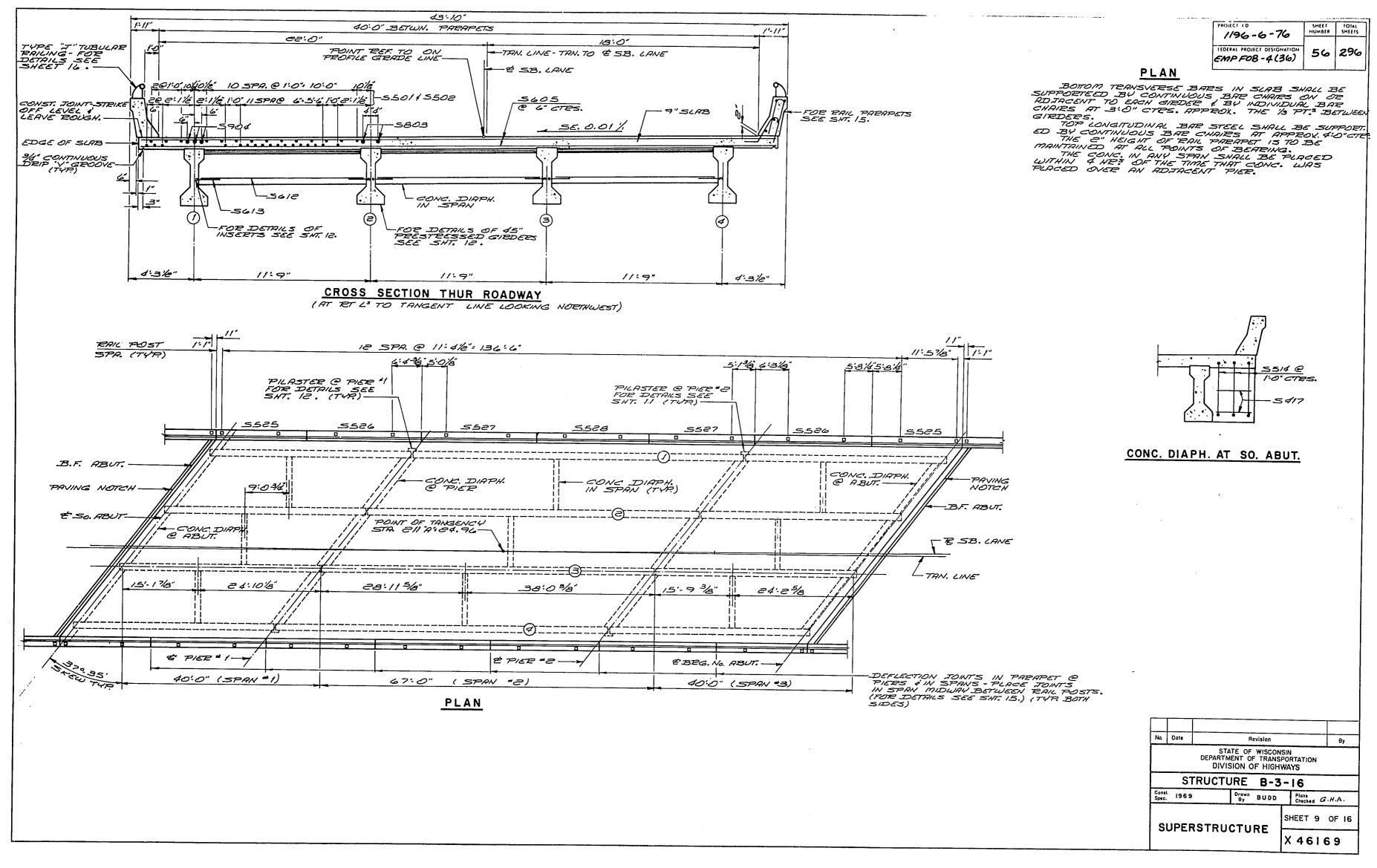


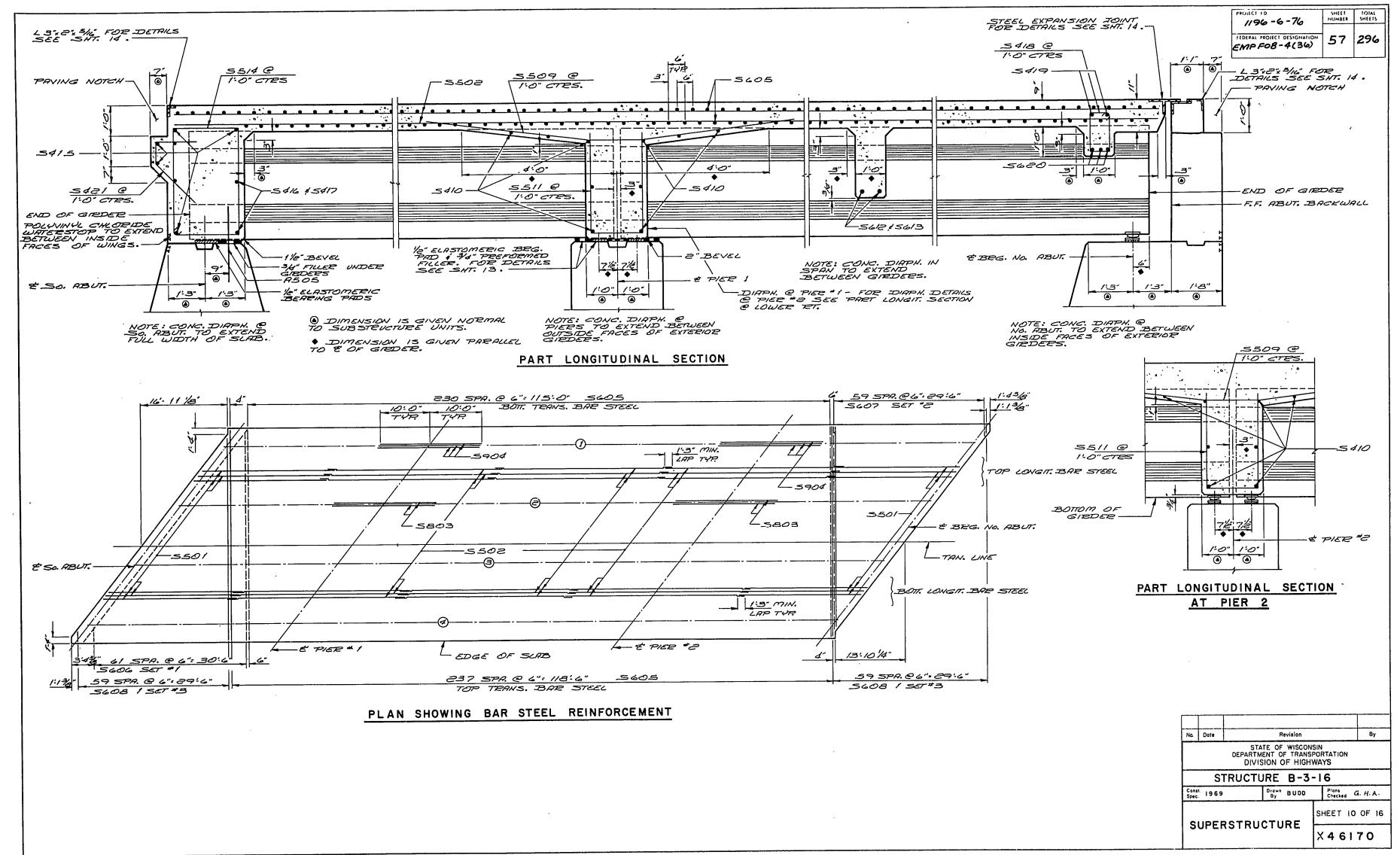


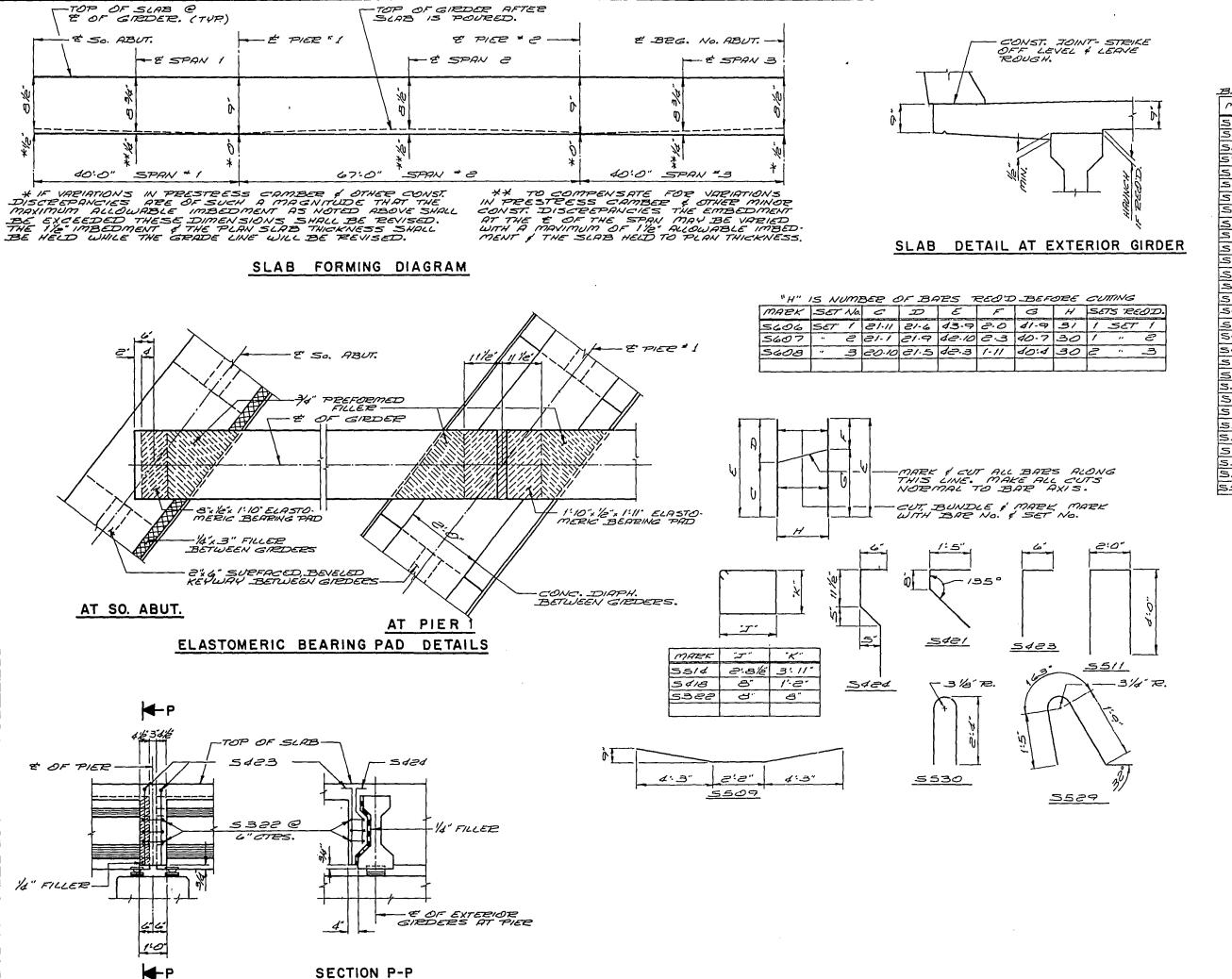












PILASTER DETAILS AT PIER

PROJECT 1D

1/96-6-76

SHEET TOTAL NUMBER SHEETS

TEDERAL PROJECT DESIGNATION

EMP FO8-4(36)

BILL OF BARS

DIMENSIONS ARE OUT TO OUT OF BAR.
THE FIRST DIGIT OF A 3 DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

MARK	NO. REOD.	LENGTH	BENT	CUT. DIR.	LOCATION	
5501	174	24.9			SLAB TOP & BOT.	LONGI
5502	261	35.0			II B + P	
5803	8	20.0			" CPIER GIRD. 2,3	
5904	12	20.0				
5605	469	12-4			" " & BOT.	TEANS.
5606	31	43.9		×	" BOT. SET !	•
5607	30	42.10		X	· · a	~
5608	60	12.3		×	· TOP " _3	
5509	66	10-10	X		" HRUNCH @ PIEE	LONGIT.
5410	60	12.3			H 11 11 11	TEANS.
5511	66	9.9	×			
5612	18	10-10			DIATH. @ MID STAN	
56/3	36	2.0			" " THEERD ONE	<i>"</i>
5514	36	14-0	X		" " 50. ABUT.	
5415	14	27.3			и и и	~
5416	6	12.0				"
5417	4	3-1				"
54/8	35	4.0	X		" " No. "	
5419	6	11.9			H '1 '1 '4	*
5620	9	/3-3			A 11 H 42	~
5421	-51	-3-11	X		PAYING NOTCH	
33 <i>22</i>	12	3-2	X		PILASTER O PIER	
5423	න	4-4	_X		" "	YERT.
5484	ප	_3-4	×			
5525	20	17-6			RAIL PARAPET	HORIZ.
5526	20	23-0			. "	"
S527	20	21.9			9	
5528	10	<i>22.5</i>			., .,	•
9 5 5	29B	5.0	×		* "	VEET.
S530	298	4.9	X		. "	

Na Date Revision By

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

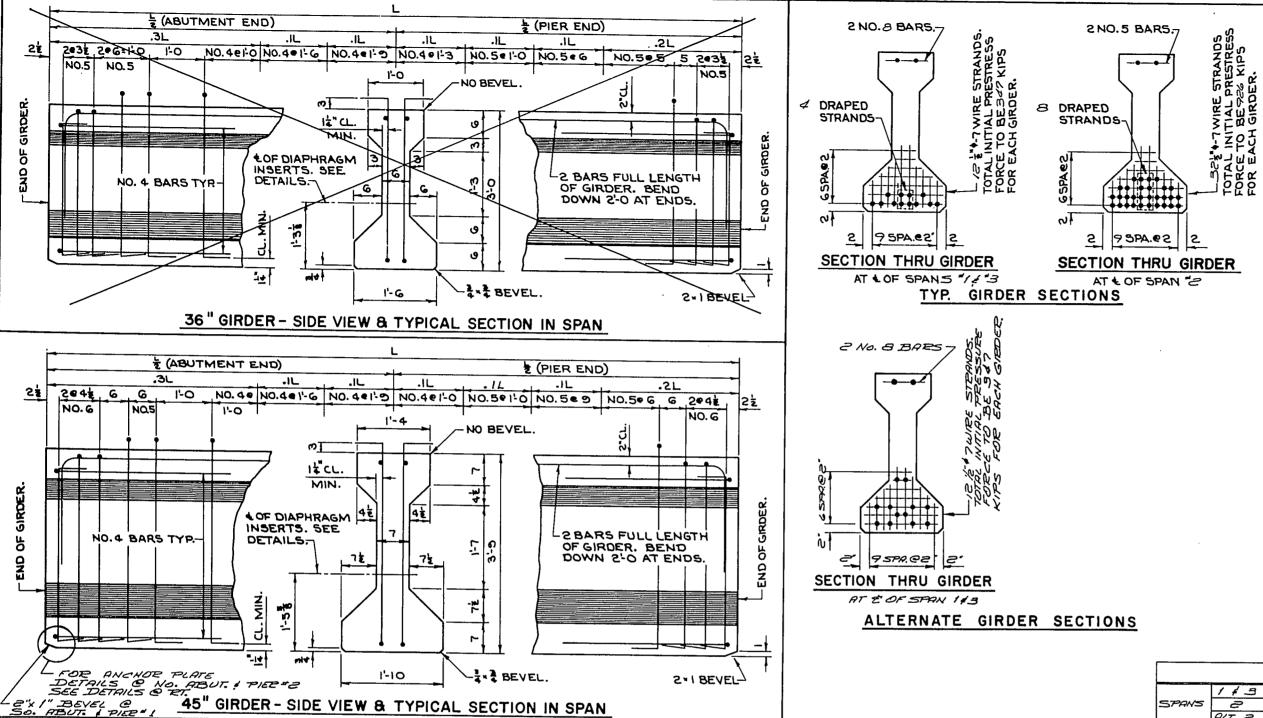
STRUCTURE B-3-16

STRUCTURE B-3-16

Const. Spec. 1969 Drawn BUDD Plans Checked G. H. A.

SUPERSTRUCTURE

X 4 6 1 7 1



1<u>-</u>0

4 3 4 2

NOTES

B. P. R. Division	Project	Sheet Number	Total Sheets
	1196-6-76		204
•	EMP F08-4(34	<i>5</i> 9	276

TOP OF GIRDERS TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY FOR BONDING TO THE SLAB.

THE GIRDER MANUFACTURER SHALL PROVIDE A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS.

ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.
PRESTRESSING STRANDS SHALL HAVE AN ULTIMATE STRENGTH OF
270,000 pai AND SHALL BE FLUSH WITH THE ENDS OF THE GIRDER.
INSERTS SHALL BE PLACED ON G" CENTERS SYMMETRICALLY ABOUT
THE & OF DIAPHRAGMS IN SPANS.

ALL STIRRUPS SHALL BE IN PAIRS AND THE SPACING SHOWN IN "SIDE VIEW" IS MAXIMUM. THE LOCATION SHALL BE SHOWN IN THE SHOP DRAWINGS BEND EACH END OF NO.4 AND NO.5 STIRRUPS 6" AND NO.6 STIRRUPS 62".

ENDS OF STRANDS SHALL BE PAINTED WITH NON-STAINING GRAY NON BITUMINOUS JOINT SEALER. (THIS APPLIES

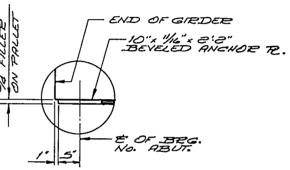
ONLY TO THOSE ENDS OF GIRDERS THAT ARE FINALLY EXPOSED.)

TOP LONGITUDINAL BARS IN GIRDER MAY BE SPLICED BY USING 35

BAR DIAMETER LAPS. PLACE ONE LAP AT & OF GIRDER IF LENGTH IS

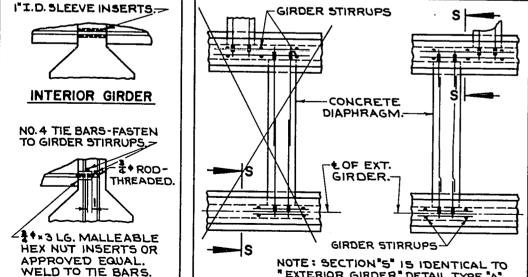
< 70-0. PLACE LAPS AT THE 3 RD POINTS OF GIRDER IF LENGTH IS

> 70-0.



NO. ABUT. 8 PIER 2

		'A"	MAX.	min.	.c.,
	1/3	''وحے	16"	/31	3"
SPANS	2	30.	14 3/4	11 3/4"	5*
	ALT. 2	35	1434	1134	4-



EXTERIOR GIRDER

TYPE "A"

NOTE: SECTION'S' IS IDENTICAL TO
"EXTERIOR GIRDER' DETAIL TYPE A'.

PLAN
TYPE B"
TYPE C"

DIAPHRAGM INSERT DETAILS

OUTSIDE FACE.

SAZZ

JECL.

SAZZ

JECL.

SAZZ

JECL.

SAZZ

JECL.

SAZZ

JECL.

SAZZ

POSTILLER.

PILLER.

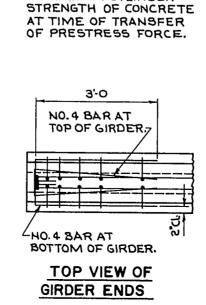
PILASTER DETAIL AT PIERS

TOP OF SLAB.

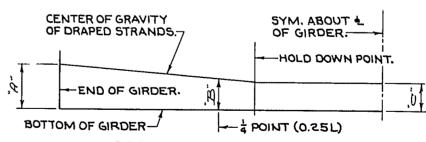
-END OF GIRDERS.

LOF EXT.

GIRDER

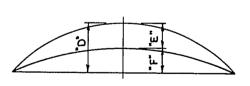


* MINIMUM CYLINDER



DRAPED STRAND PROFILE

	GIRDER	ATAC			
	GIRDER SIZE REQ	UIRED	45	ALTEE	NATE
	SPANS	143	2	143	
GIRDER LE	NGTH "L" REQUIRED	40:46	66:9"	40:16	
0-: (:)	DRAPED PATTERN	4,800	5,000	4.800	
fici (psi)	SPREAD PATTERN	4,800	5,000	4,800	
2551567121	PRESTRESS CAMBER "D"	1/4"	15/3"	14"	
DEFLECTION DATA * *	DEAD LOAD DEFLECTION "E"	//s"	/"	1/8"	
	RESIDUAL CAMBER "F"	/s"	5∕8″	1/e"	
US	E DIAPHRAGM INSERT	DETAIL		"~"	

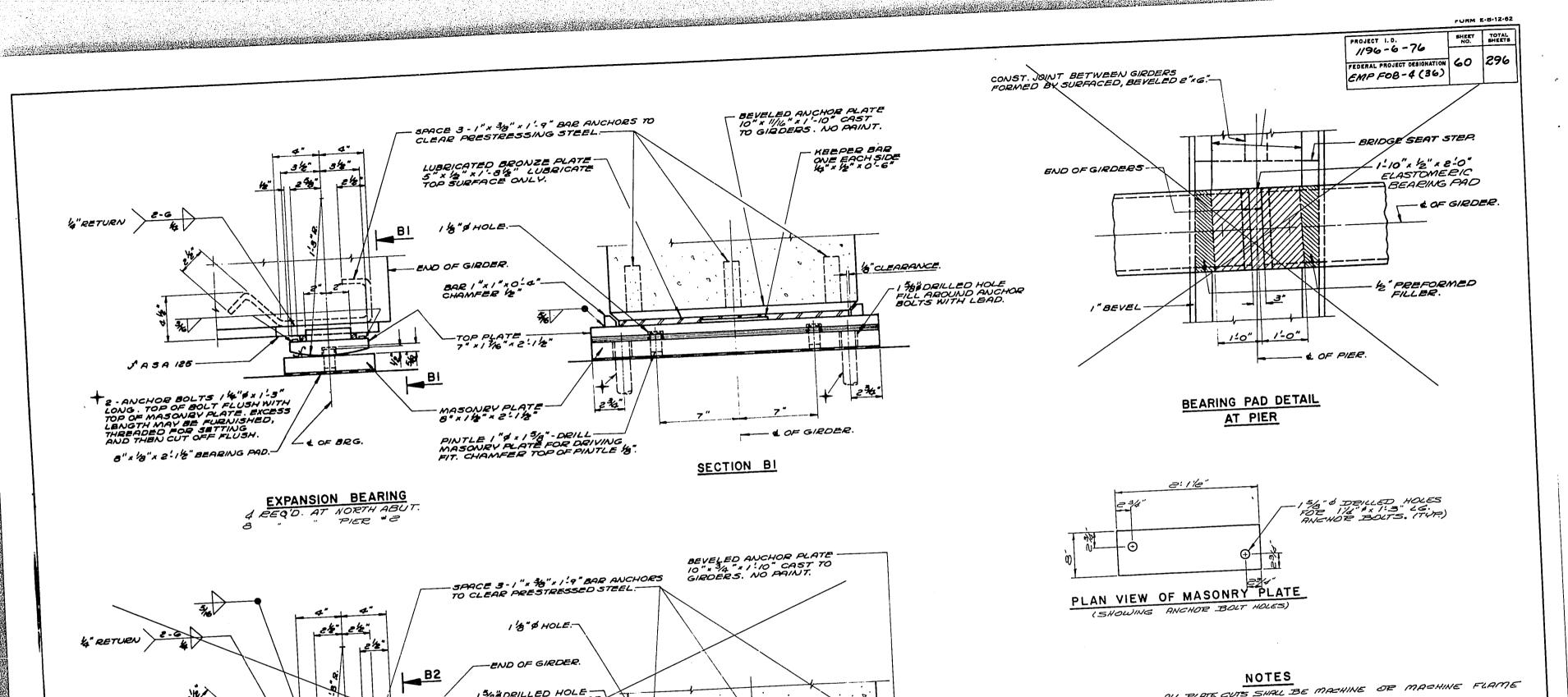


** DATA SHOWN IS THEORETICAL AND MAY VARY WITH CONCRETE STRENGTH, VARIABLE PRESTRESS CONDITIONS AND PRESTRESS LOSSES.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STRUCTURE B-3-16	No.	Date	Revision	В
STRUCTURE B-3-16			DEPARTMENT OF TRANSPORTATION	
			DIVISION OF HIGHWAIS	

PRESTRESSED GIRDER DETAILS

SHEET 12 OF 16 X 46172



ALL PLATE CUTS SHALL BE MACHINE OF MACHINE FLAME

ALL PLATE CUTS SHILL DE MACHINE

CUTS.

ALL SUPFACES MARKED & SHALL BE MACHINE

FINISHED, BY AN AUTOMATIC PROCESS.

ALL MATERIAL EXCEPT ANCHOR BOLTS SHALL BE MADE OF

ALL MATERIAL EXCEPT ANCHOR BOLTS SHALL BE MADE OF

ALL STRUCTURAL EXCEPT BRONZE PLATES, BEARING

ALL BEARING MATERIAL EXCEPT BRONZE PLATES, BEARING

PADS, AND ANCHOR PLATES SHALL BE PAID FOR AT THE UNIT

PRICE BID FOR "STRUCTURAL LOW ALLOY STEEL"

ALL STRUCTURAL STEEL PLATES SHALL BE FLAT ROLLED

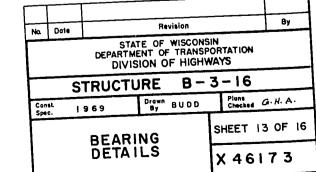
ALL STRUCTURAL STEEL PLATES SHALL BE FROM

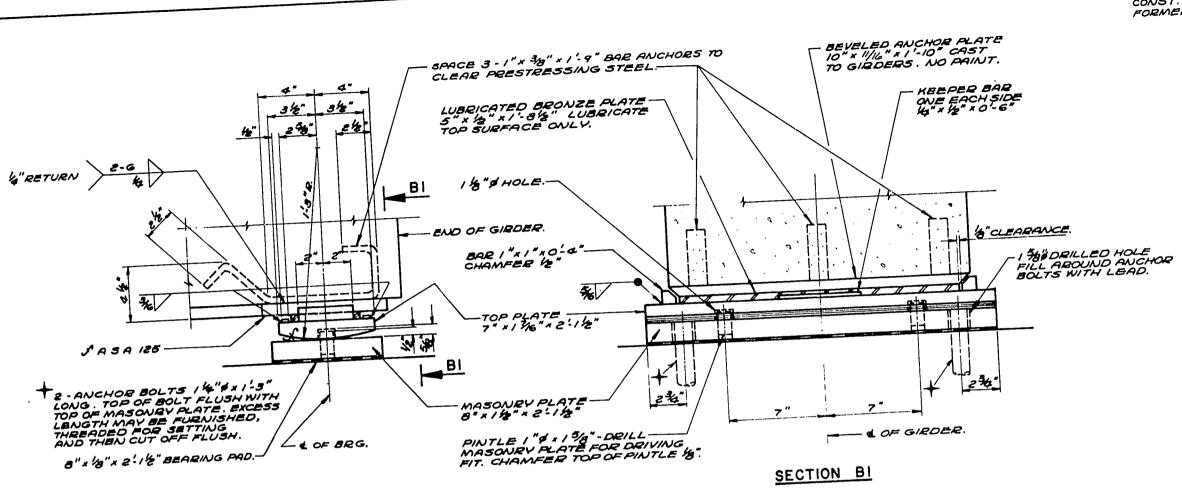
PRICE BID FOR STRUCTURAL LOW ALLOY STEEL.

ALL STRUCTURAL STEEL PLATES SHALL BE FLAT ROLLED

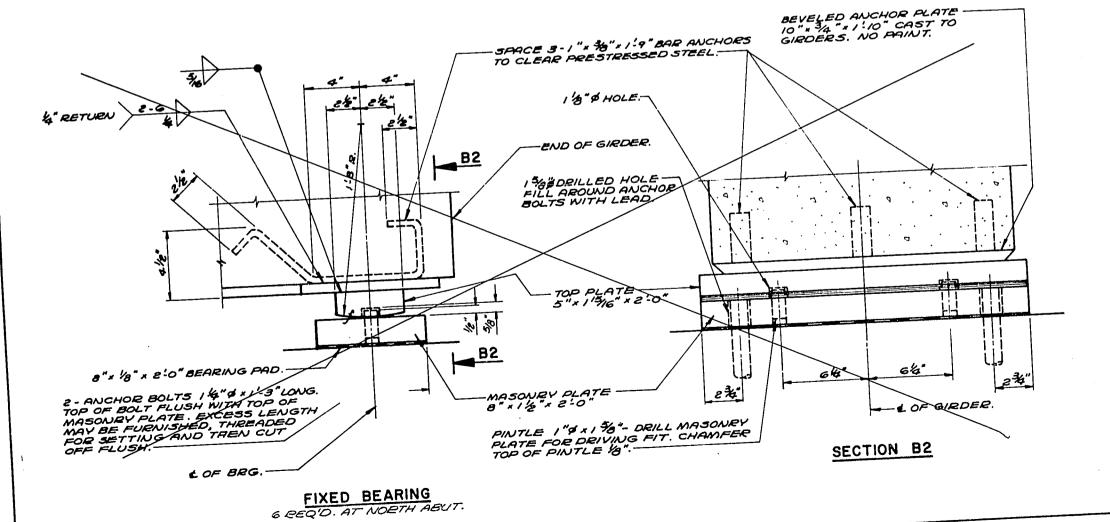
STEEL PLATES WITH ALL SURFACES SMOOTH AND FREE FROM

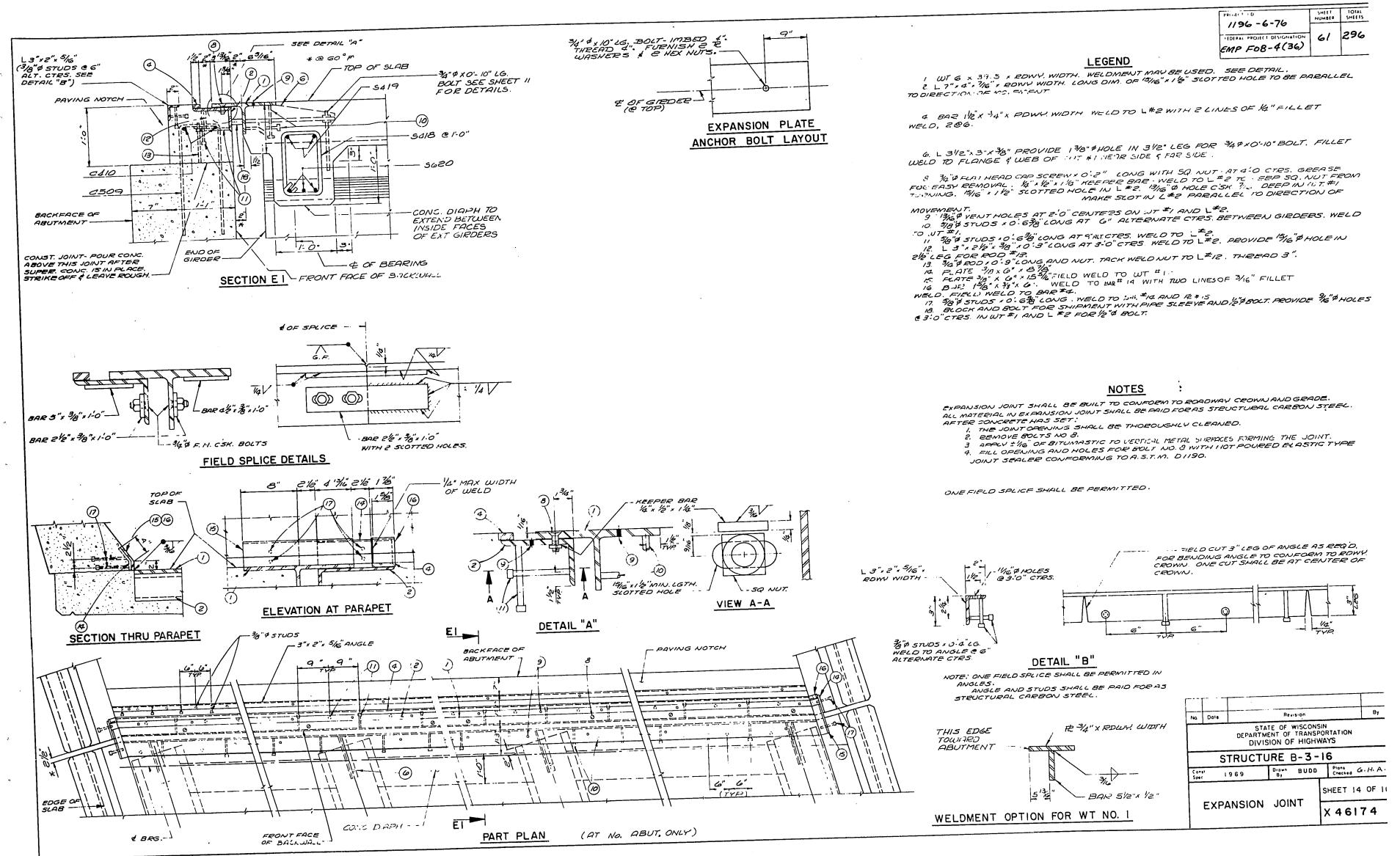
WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL.

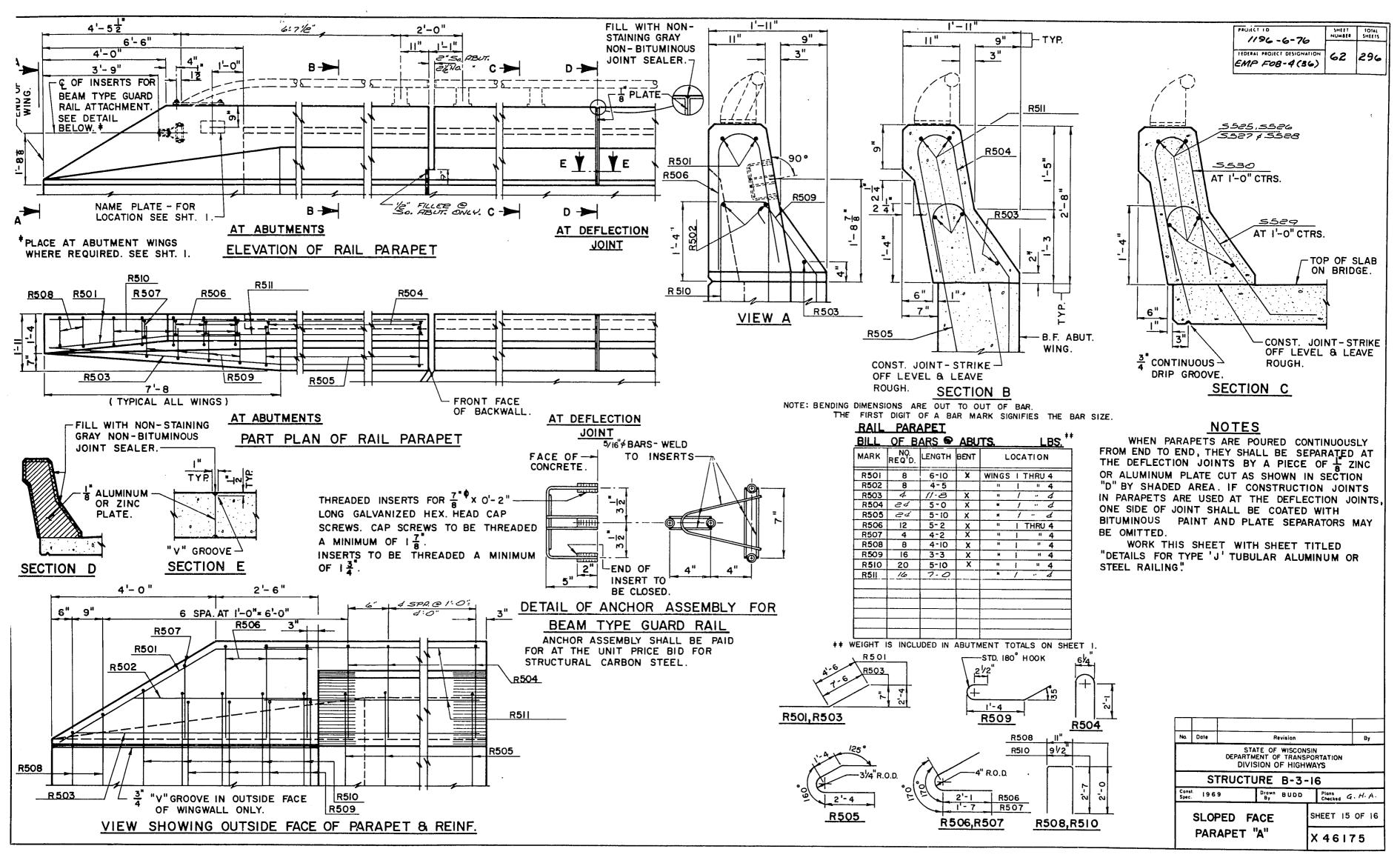




EXPANSION BEARING 4 REQ'D. AT NORTH ABUT. PIER * 2

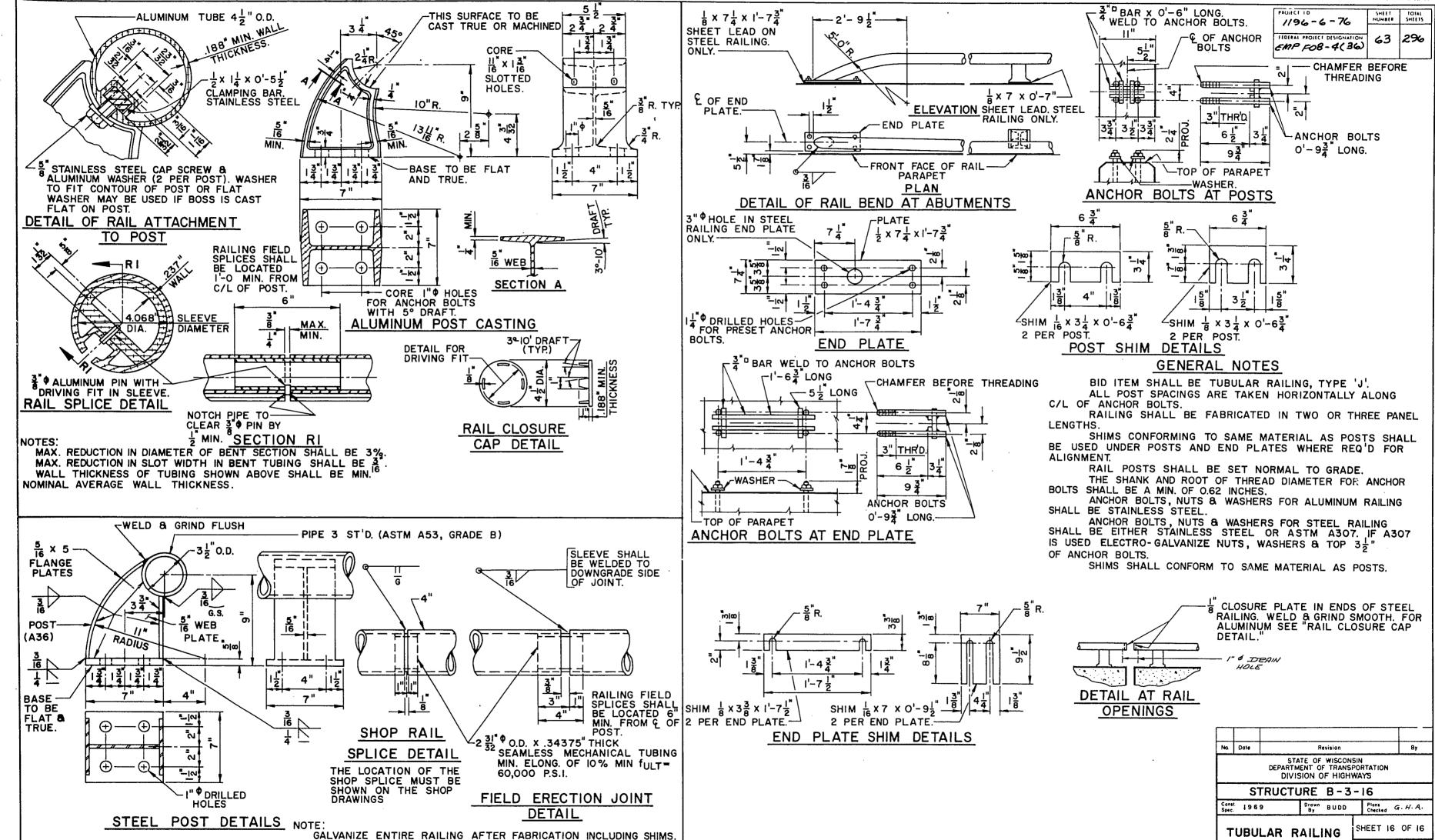


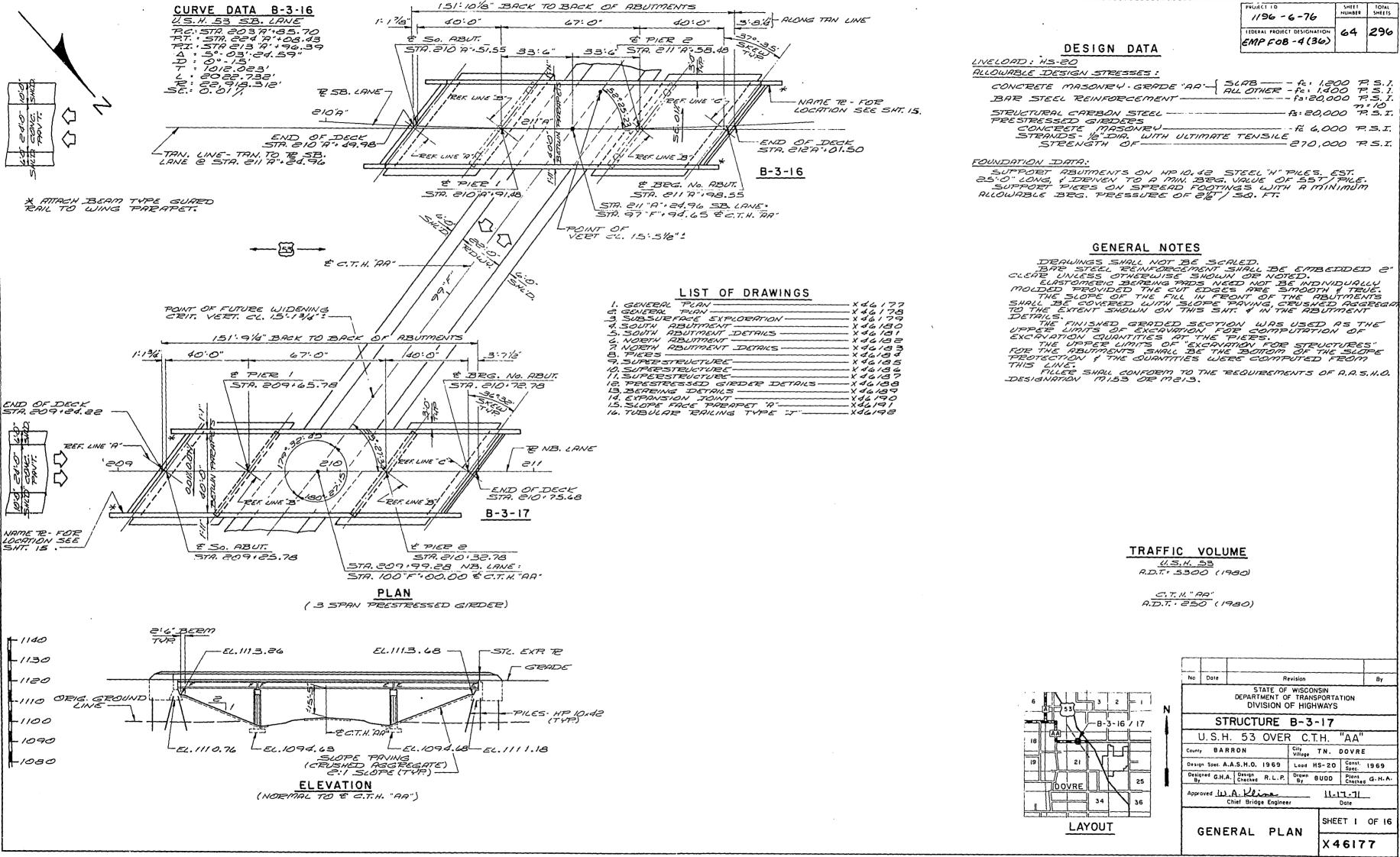




TYPE 'J'

X46176





PROJECT LD SHEET 64 296

CONCRETE MASONRY-GRADE "AR- SLAB - fe: 1.200 P.S.I.
BAR STEEL REWFORCEMENT - fs: 20,000 P.S.I. fs: 20,000 P.S.I. - FE 6,000 P.S.I.

By STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION U.S.H. 53 OVER C.T.H. "AA" City TN. DOVRE Design Spec. A.A.S.H.O. 1969 Land HS-20 Const. 1969 Designed G.H.A. Design R.L.P. Drawn BUDD Plans G.H.A. 11-17-71

X46177

//96 - 6-76	SHEE! NUMBER	TOTAL SHEETS
FEDERAL PROJECT DESIGNATION EMP FOB - 4(36)	65	296

43:10	· · · · · · · · · · · · · · · · · · ·
1311" 40'-0" BETA	UN. PAPAPETS 1:11"
18:0"	22:0°
9" SLAB 0.01%	POINT REF. TO ON PROFILE GRADE LINE 0.01%
	45" PEESTEESSED GIRDEES.
1:3/E 3 SPA. @ 11	· 9 · 35 · 3 · 4 · 3 /e"
LEU FTE? A MIN. OF 1:0" INTO SOUND FOCK	
×××××××××××××××××××××××××××××××××××××××	

CROSS SECTION THRU ROADWAY LOOKING NORTHWEST

RESTRESSED GREDES, TYPE 03 (1.00 e.700 200 200 3.730 (2.4700) RESTREAM REMINISTER (255, 3.760	RESTRESSED GIRDERS, I TYPE 45	<u> </u>	1 2 2 2	2200	اربيسنت		J. 120	124,700
TRUCTUEN LOW RILLOY STEEL LESS 2.070	OP STEEL REINFORCEMENT	1225-		2,700				3,720
MENUTURN: LOW RICHY STEEL 285. 190	TPINTUPAL CARBON STEEL		3,720					2.070
UBELIATED BRONZE PLATES 5.5. 17	TPINTURAL LOW ALLOY STEEL							
SERENG FADS SEREING PADS, ELRSTOMERIC S.F. 19 SEREING PADS, ELRSTOMERIC S.F. 19 STEEL PILING, DELIVERED & L.F. — 400 — 400 200 SEREING HID & STEEL PILING, DELIVERED & L.F. — 400 — 400 200 SEREING HID & SEREING HI	UBPICATED BRONZE PLATES							17
DEDRING PADS, ELASTOMERIC S.P. 110 395 805 STEEL PILING, DELIVERED # L.F. 350	SEPPING 1997)S					 		19
STEEL PILING, DELIVERED (L.F. 330 — 332 DENIVER POLY MP 10x de 200 — 332 DENIVER PALING, TYPE 'J' L.F. 330 — - 332 DENIVER PALING, TYPE 'J' L.F. 330 — - 255 508 DENIVER PALING, CRUSHED RESPECTATES.Y — 253 — 255 508 DENIVER PALING, CRUSHED RESPECTATES.Y — 253 — 255 508 DENIVER PALING PALIN	FORME PODS, ELASTOMERIC	5.F.	19				20,-	
DENIER PAUNG, TYPE T' 2.F. 332 352 IDUNER PAUNG, TYPE T' 2.F. 332 352 SLOPE PAVING, CRUSHED REGREGATES, V. 253 255 NON-BID ITEMS AUMINUM DEZINC PLATE S.F. 35 2 35 AUXINIVE CHLORIDE WATERSTOP SIZE 255 FILLER STATE 255 257 STATE 255 257 STATE 255 STATE 25	SEARING THE TELLIFORD &			410		İ	373	800
DEDURE TRAILING, TYPE 'T' L.F. 338 — 255 508 SLOPE PAVING, CRUSHED REGREGATES, Y — 253 — 255 508 NON-BID ITEMS RUMINUM DEZINC PLATE S.F. 35 — 35 SUMINUM DEZINC PLATE S.F. 35 — 59 114 SULVINYL CHLORIDE WATERSTOP SIZE — 1/2/2/2/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/	STEEL PILING, LIEUVERED F	2. F.		400			400	
NON-BID ITEMS NON-BID ITEMS SECUMENTAL ENLORIDE WATERSTOP L.F	DENEN AP 10 x 4C		332	L <u></u>				
NON-BID ITEMS S.F. 35 — — 35 RUMINUM DEZINC PLATE S.F. 35 — — 35 ROLLVINYL CHLORDE WATERSTOP L.F. — 55 — 59 III & SIZE — — 118 SEE — — 1888 194 SEE — 1888 194 S	UBULAR RAILING, ITTE			253			255	208
NON-BID ITEMS QUININUM DE ZINC FLATE S.F. 35 — 35 QUININUM DE ZINC FLATE S.F. 35 — 59 11 d ROLLVINYL CHLORIDE WATERSTOP L.F. 55 — 1/4/2/3/3/3 FILLER SE C. 25 — 1/4/2/3/3/3/3 SE C. 25 — 1/4 SE C. 25	LOPE PAVING, CEUSACE NECES							
NON-BID ITEMS QUININUM DE ZINC FLATE S.F. 35 — 35 QUININUM DE ZINC FLATE S.F. 35 — 59 II d ROLLVINYL CHLORIDE WATERSTOP S.E. 35 — 59 II d								
NON-BID ITEMS S.F. 35 — 35 SOLUMINUM DE ZINC FLATE SIZE — 59 114 POLIVINILE CHLORIDE WATERSTOP L.F. 55 — 1/4/28/1936 FILLER STORE STORE SIZE — 1/4/28/1936 STORE STORE SIZE — 1/4/28/1936 STORE STORE SIZE — 1/4/28/21/36 STORE STORE SIZE — 1/4/28/21/36 STORE STORE STORE STORE SIZE — 1/4/28/21/36 STORE S			 	 			ļ	
SECOLUMNUM DE ZINC PLATE SIZE							T	<u> </u>
SECOLUMNUM DE ZINC PLATE SIZE			 	 	 	<u> </u>		
SE S			.	 			*	·
SE S	NON-BID ITEMS				<u> </u>			-35
SECULIANTE CHLORIDE WATERSTOP 2.1. SIZE	DUMINUM OF ZINC PLATE						59	
-NTEE	TOUNUL CHINEIDE WATERSTOP	2 L.F.		122	<u> </u>			
47'09.35 9.297774.35 7.55.53	THE STREET	SIZE	i — _					18.16 10 14
+ C	E. 1114.23 E. 1114.23	£. //85.5	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	97. STR. 215 12'1.39.3 Et. 1/21'.01	<u>o.</u> e%	•		
MESB. CANE (130' V.C. (B.3.16')	# # # # # # # # # # # # # # # # # # #	9 : 5 : 5 : 5 : 5 : 5 : 5 : 5 : 5 : 5 :	577.21.77.4 EL.//22.5 E BRO. W STA.21/77.4	797.577.61577.39.3 56.1151.01		•		
STR. SO. DE STR. SIGN: SIGN: S STR.	# # # # # # # # # # # # # # # # # # #	\$ \$2.11.81.96 \$ \$2.11.82.91.48 \$ \$2.11.88.11 \$ \$ \$2.11.88.11 \$ \$ \$2.11.88.11	577.21.77.4 EL. 1/22.4 E BEG. N 578.21.77.4	### ### ##############################		•		

NORTHBOUND LANE (B-3-17)

PROFILE GRADES U.S.H. 53

TOTAL ESTIMATED QUANTITIES

BID ITEMS

PRESTRESSED GIRDERS, I TYPE 45" BAR STEEL REINFORCEMENT

尼NB. CANE 1150' V.C.

EXCAVATION FOR STRUCTURES

CONCRETE MASONRY

UNIT SUPER SO. ABUT, PIER 1 PIERS NO. ABUT.

265.8 60.0 69.1

150

 C.F. 590
 —
 13,5%
 13,5%
 590

 LBS. 61.120
 2,700
 22.50
 3,730
 12.750

 LBS. 3,720
 —
 —
 3,720

10.0%

150

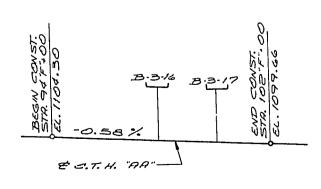
69.1

50

TOTAL

920 556.0

395



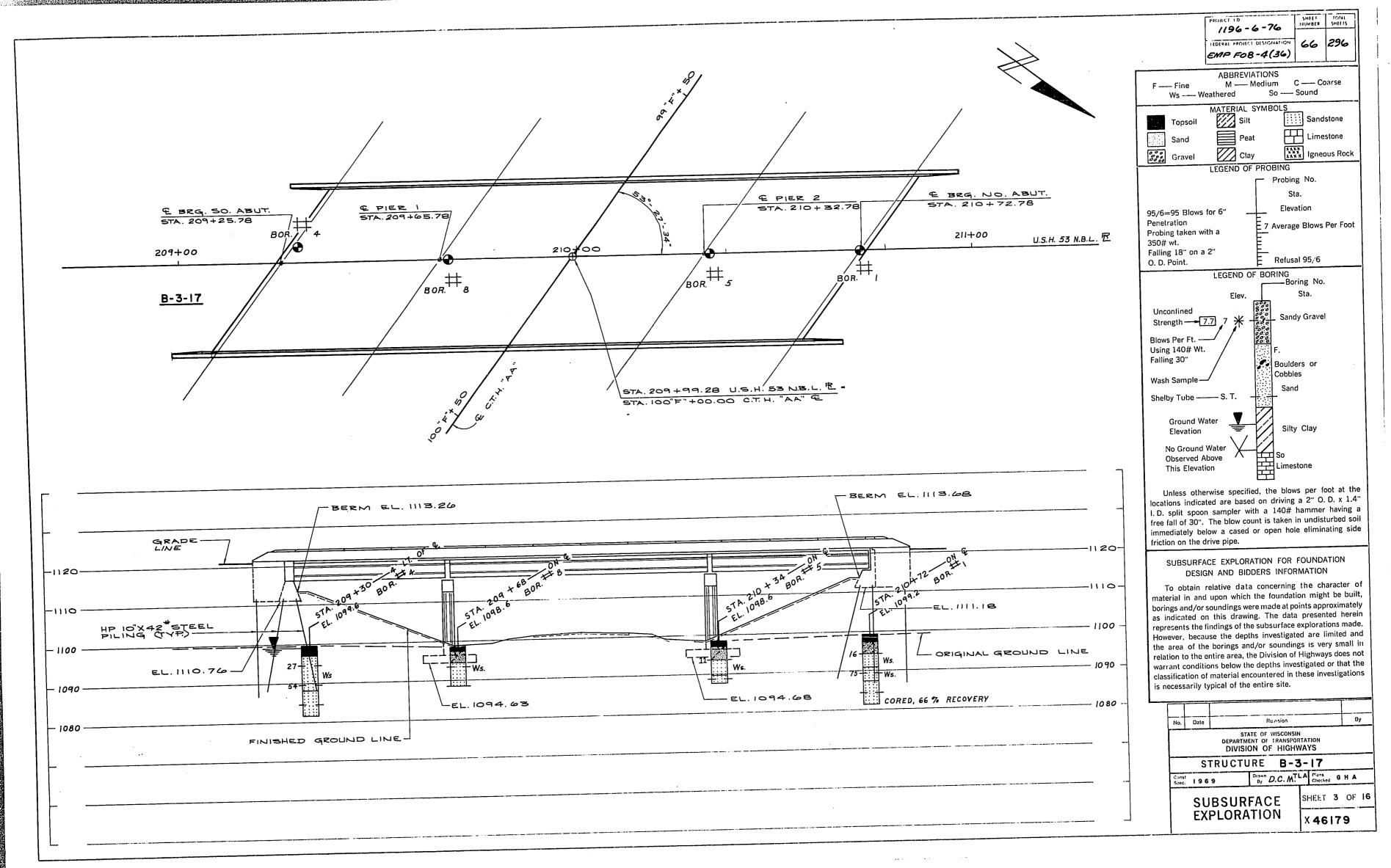
PROFILE GRADE C.T.H. "AA"

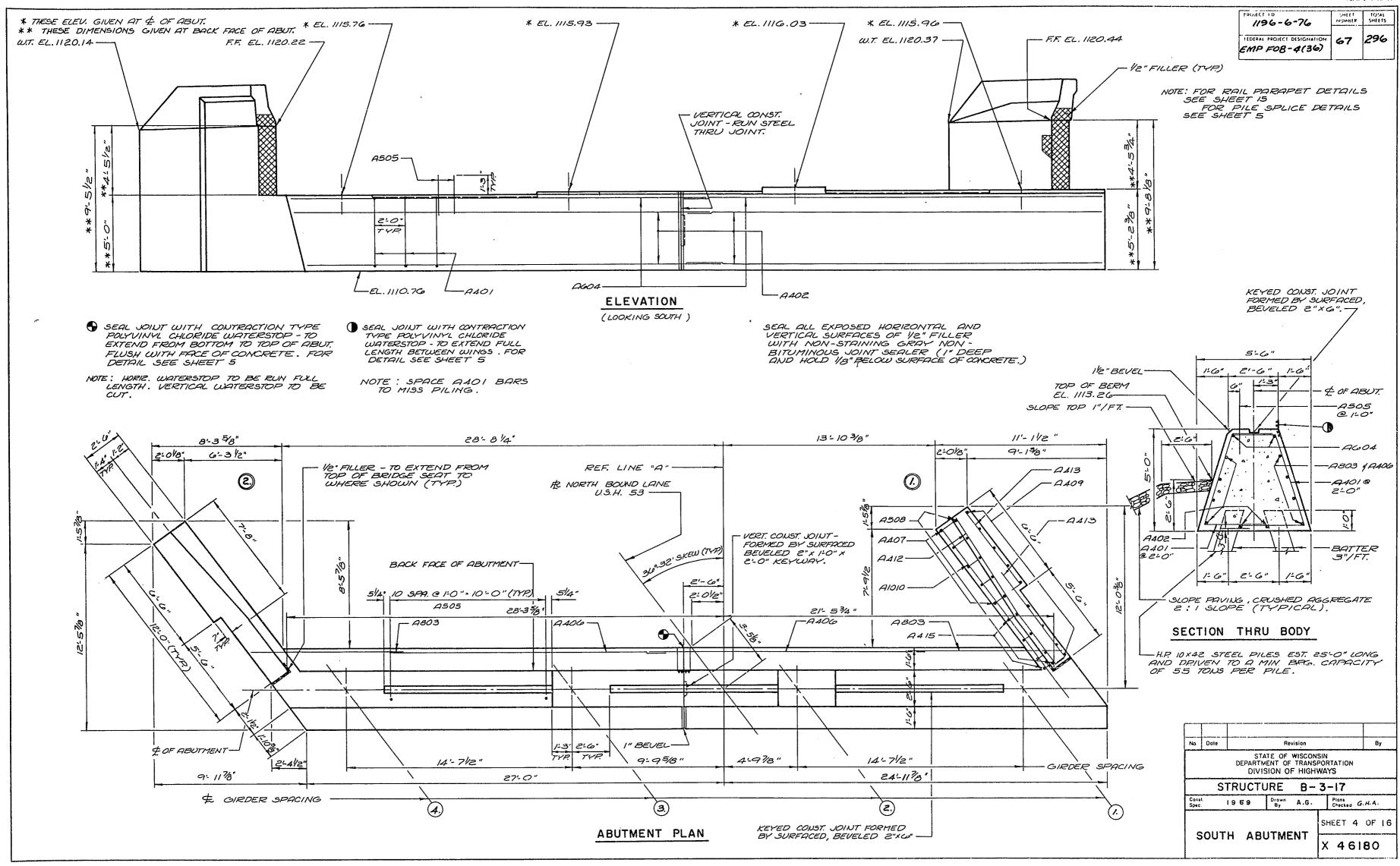
No Date Revision STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STRUCTURE B-3-17 Diawn BUDD Plans G. H. A. Const | 969

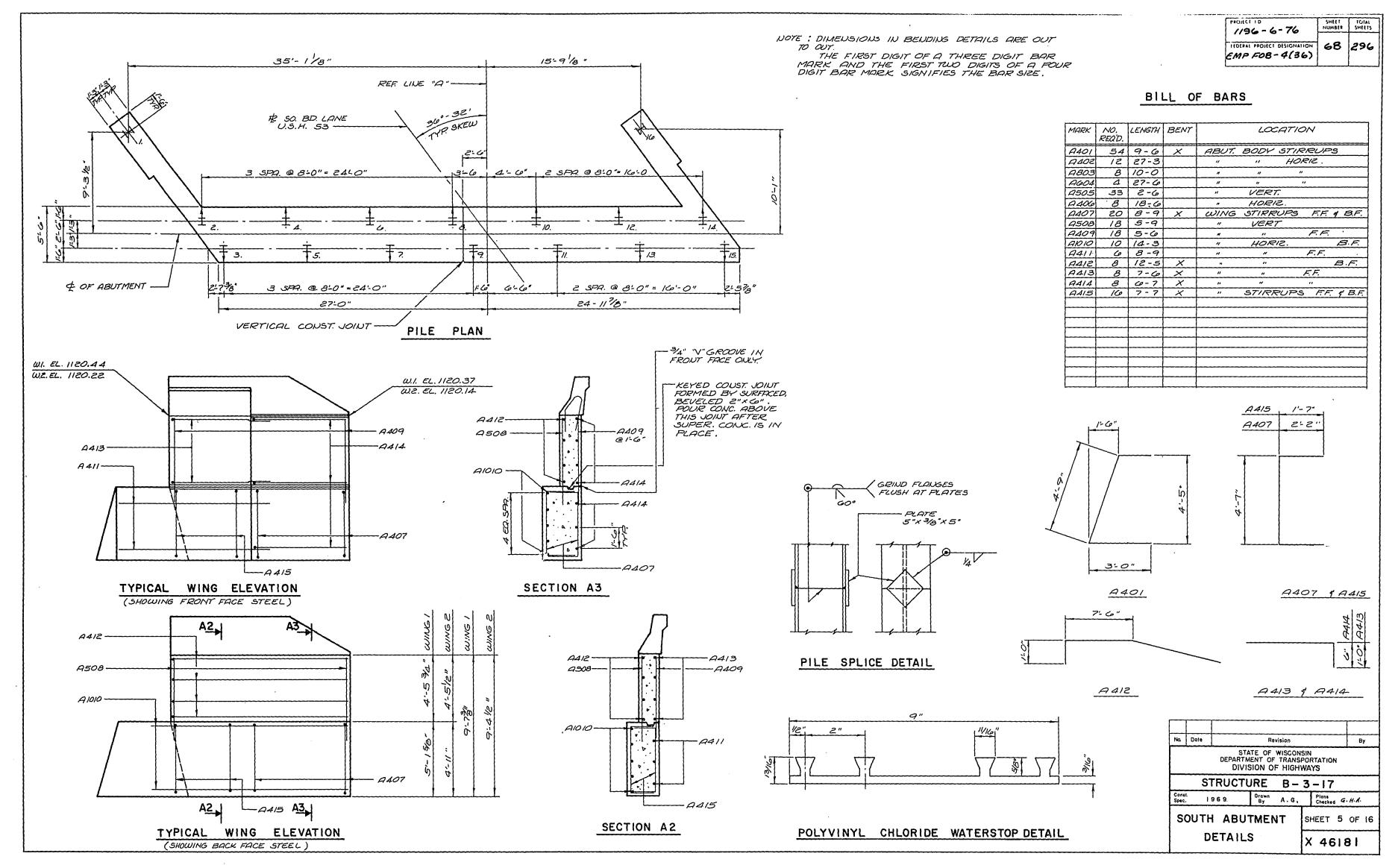
GENERAL PLAN

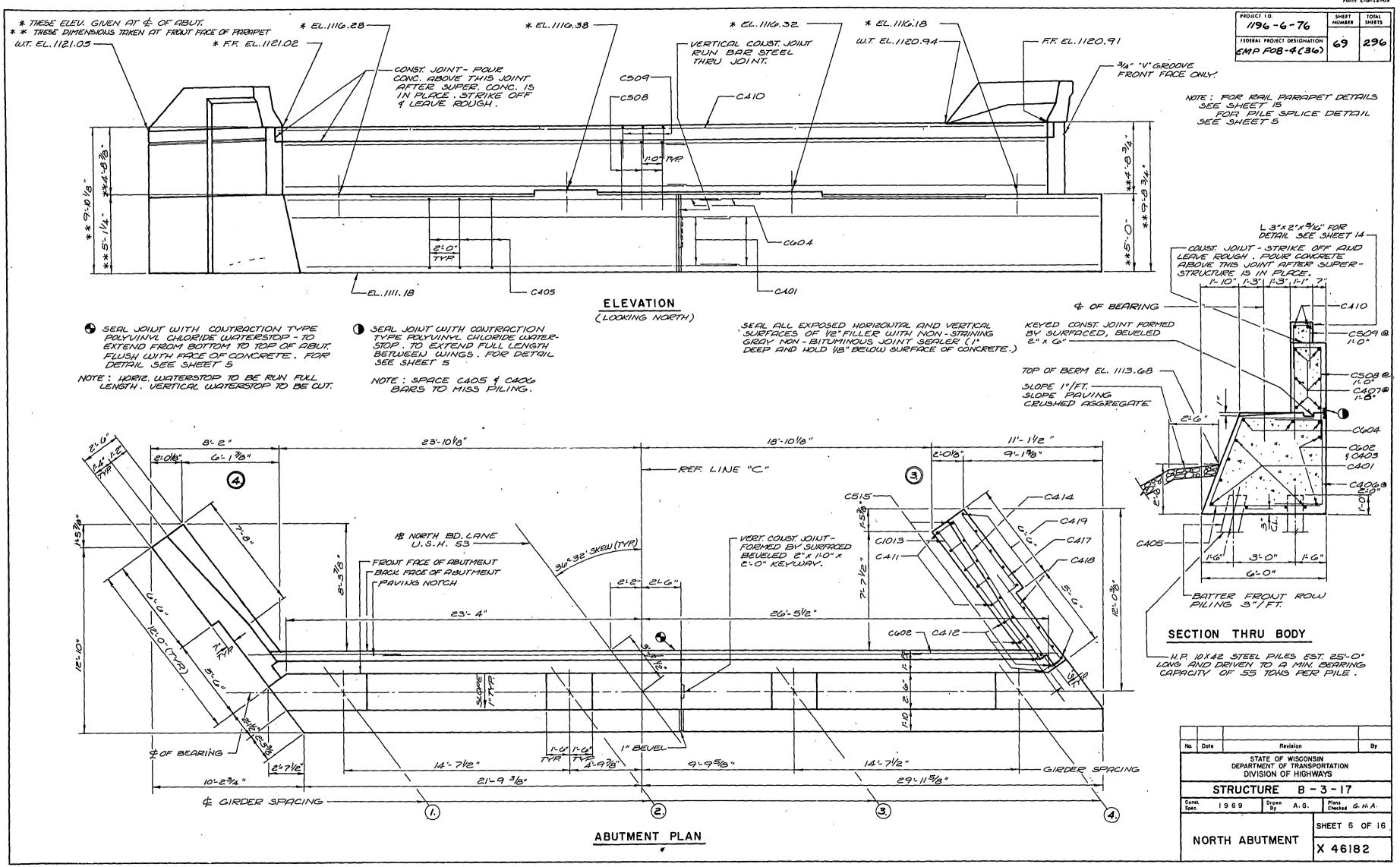
X46178

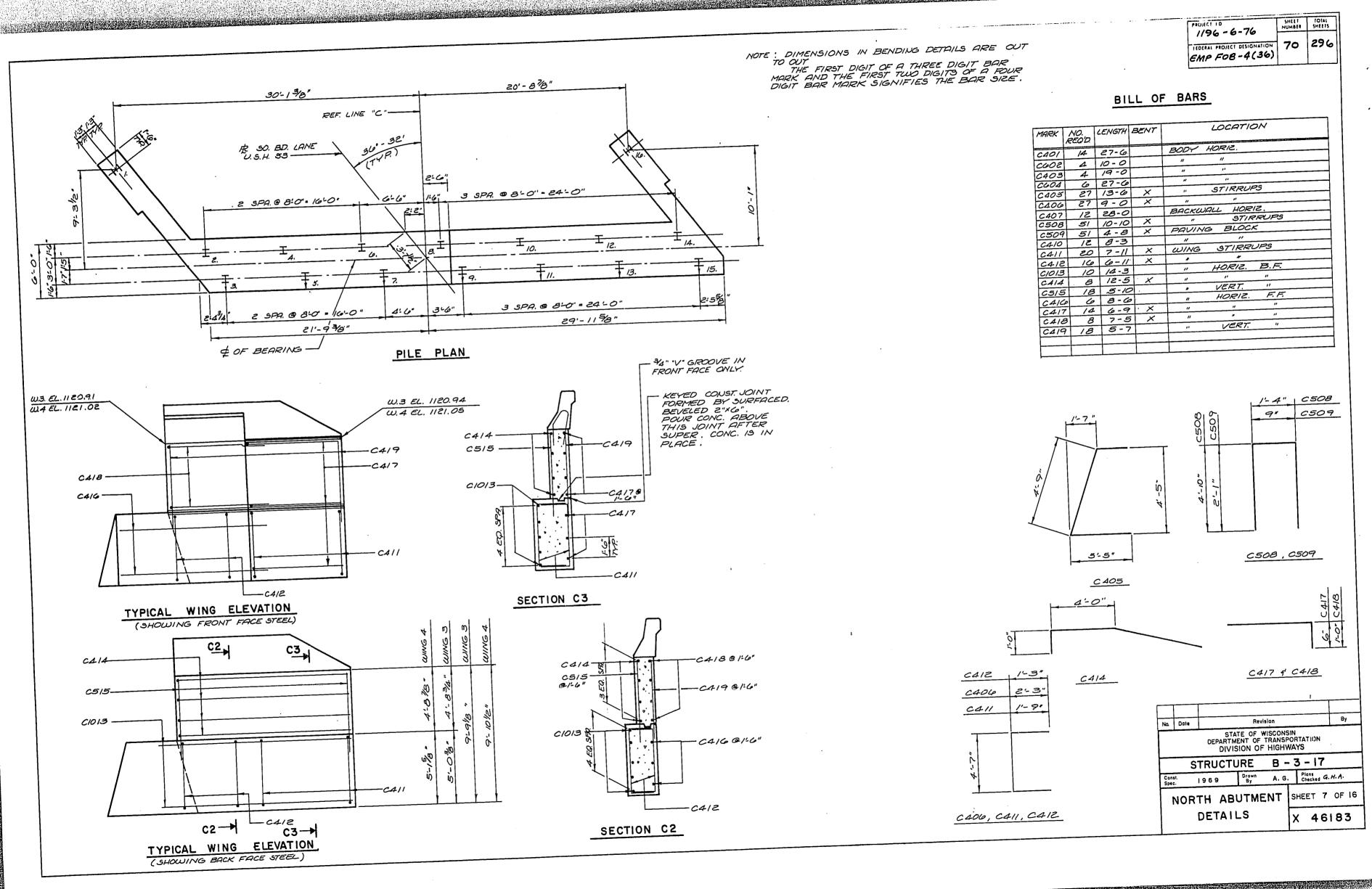
SHEET 2 OF 16

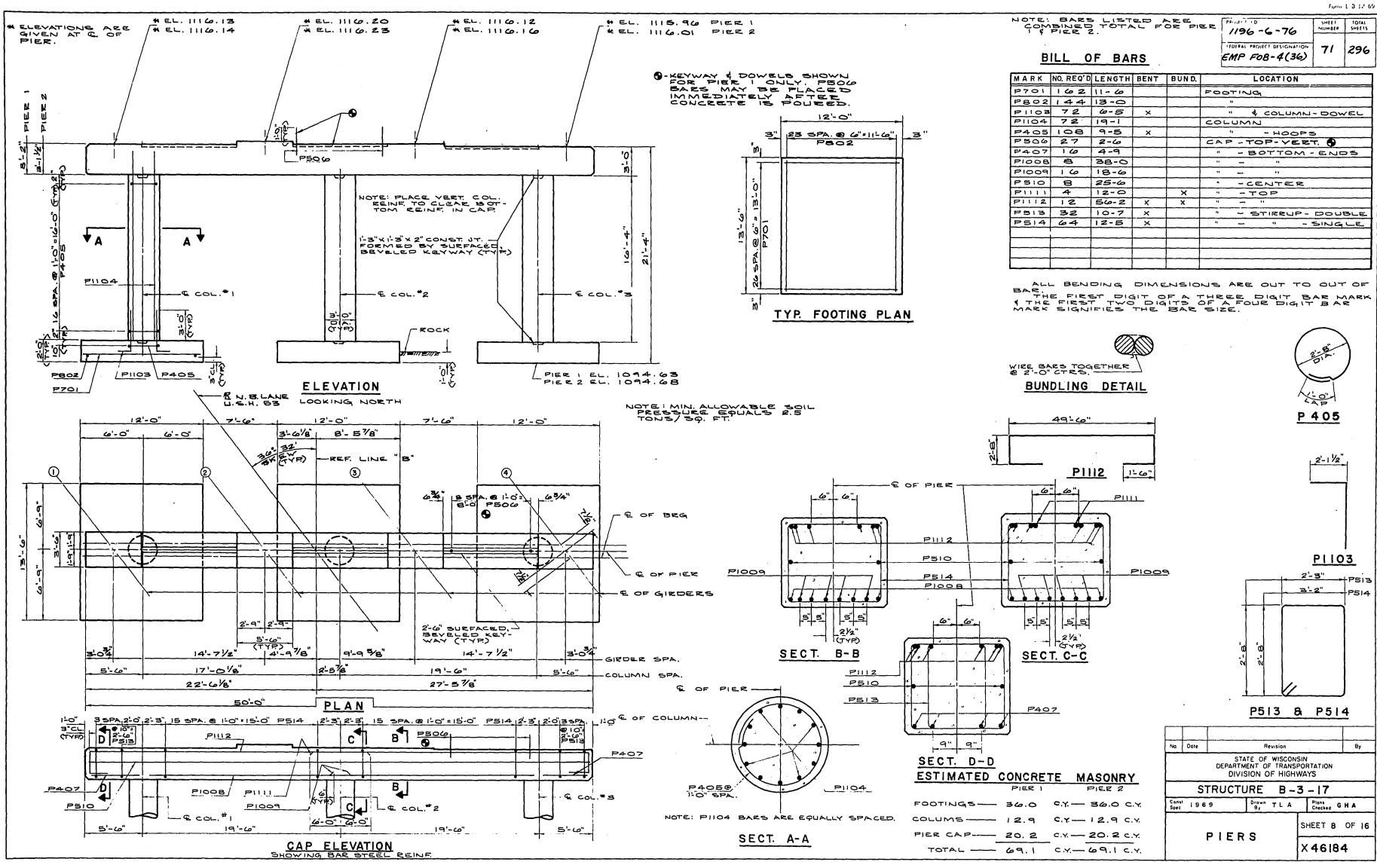


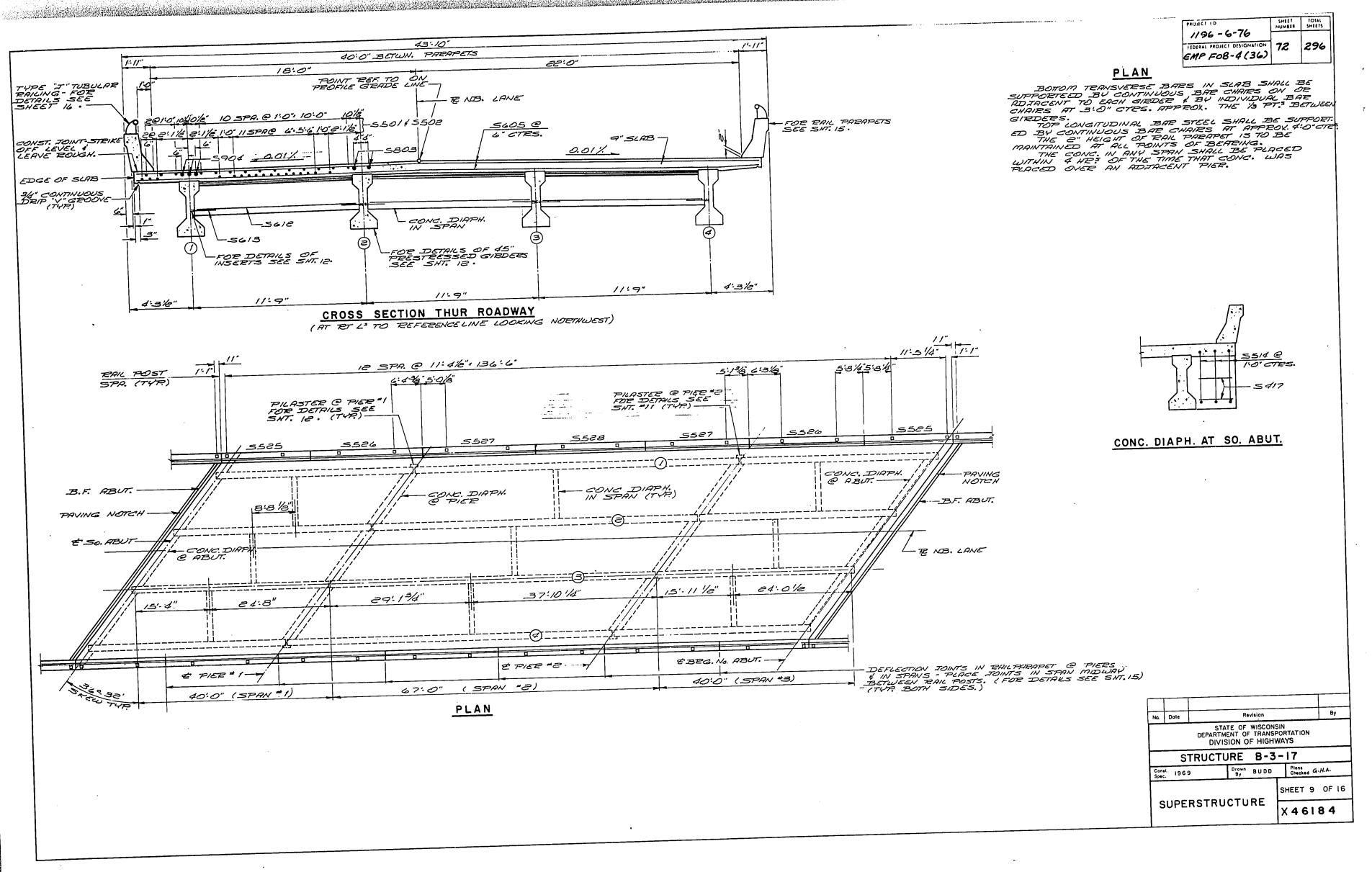


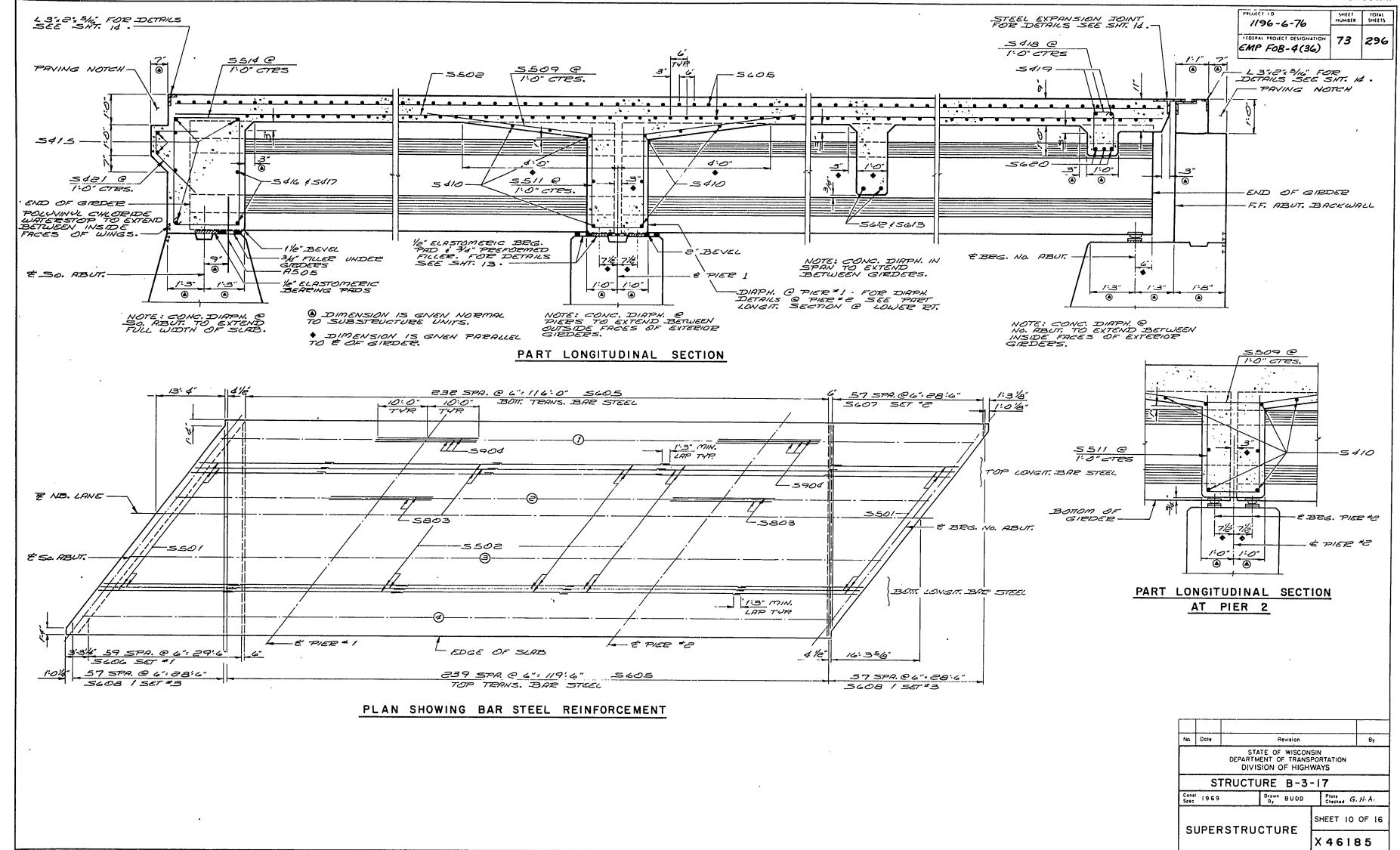


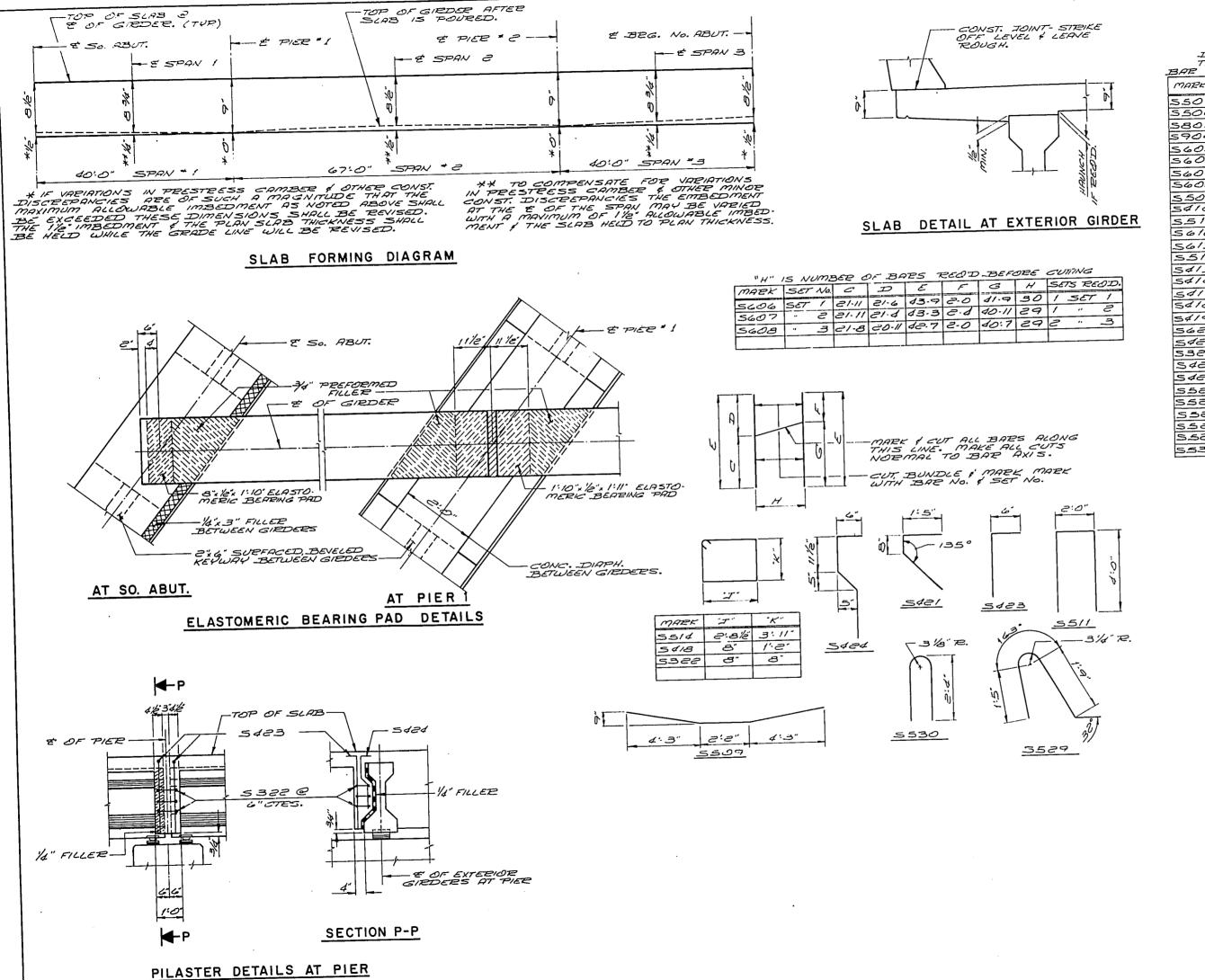












PROJECT TO SHEET SHEETS

1/96 - 6 - 76

TEDERAL PROJECT DESIGNATION 74 296

BILL OF BARS EMP FO8-4(36)

DIMENSIONS ARE OUT TO OUT OF BAR.
THE FIRST DIGIT OF A 3 DIGIT BAR MARK SIGNIFIES THE

ar s	IZE.					
20774	NO. REOD.	LENGTH	BENT	CUT. DIA.	LOCATION	LONGIT.
501	174	24-9			SLAB TOP & BOT.	"
502	261	35.0			" . CPIER GIRD. 2,3	
803	8	20.0			" 1 4	
904	18	20.0				TERNS.
605	473	12.4			" "	· · · · · · · · · · · · · · · · · · ·
606	30	43.9		X		
607	29.	13.3		X		
608	58	12.7		×	, TOP " 3	LONGIT.
509	66	10.10	X		" HAUNCH @ PIEE	TERNS.
410	60	12.3	ĺ		" "	 -
511	66	9.9	×	<u></u>	DIAPH. @ MID SPAN	
610	18	10.10		L	TIME OF ONE	
6/3	36	2.0				
5514	36	14.0	×	<u> </u>	" " 50. ABUT.	
415	14	26-10			" " "	
416	6	12.2		<u> </u>	" " " " " " " " " " " " " " " " " " " "	
5417	4	3-0		<u> </u>	7 7 7	
418	.33	4.2	×		" " ///2.	
419	6	14-7			# " " "	
5620	9	/3.3			9 0 0	
5421	50	3-11	X	<u> </u>	PAYING NOTCH	
322	12	3-0	X		PILASTER @ PIER	VERT.
5423	ප	4-4	X		" " "	
5424	ප	3-4	X			HORIZ.
5525	20	17-6		<u> </u>	RAIL PARAPET	"
5526	20	23.0				
5527	20	21.9	<u> </u>		" "	
5528		22.5			" "	VERT.
5.529	298	5.0	×	↓	• "	
5530	298	4.9	X		. "	

No Date Revision By

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

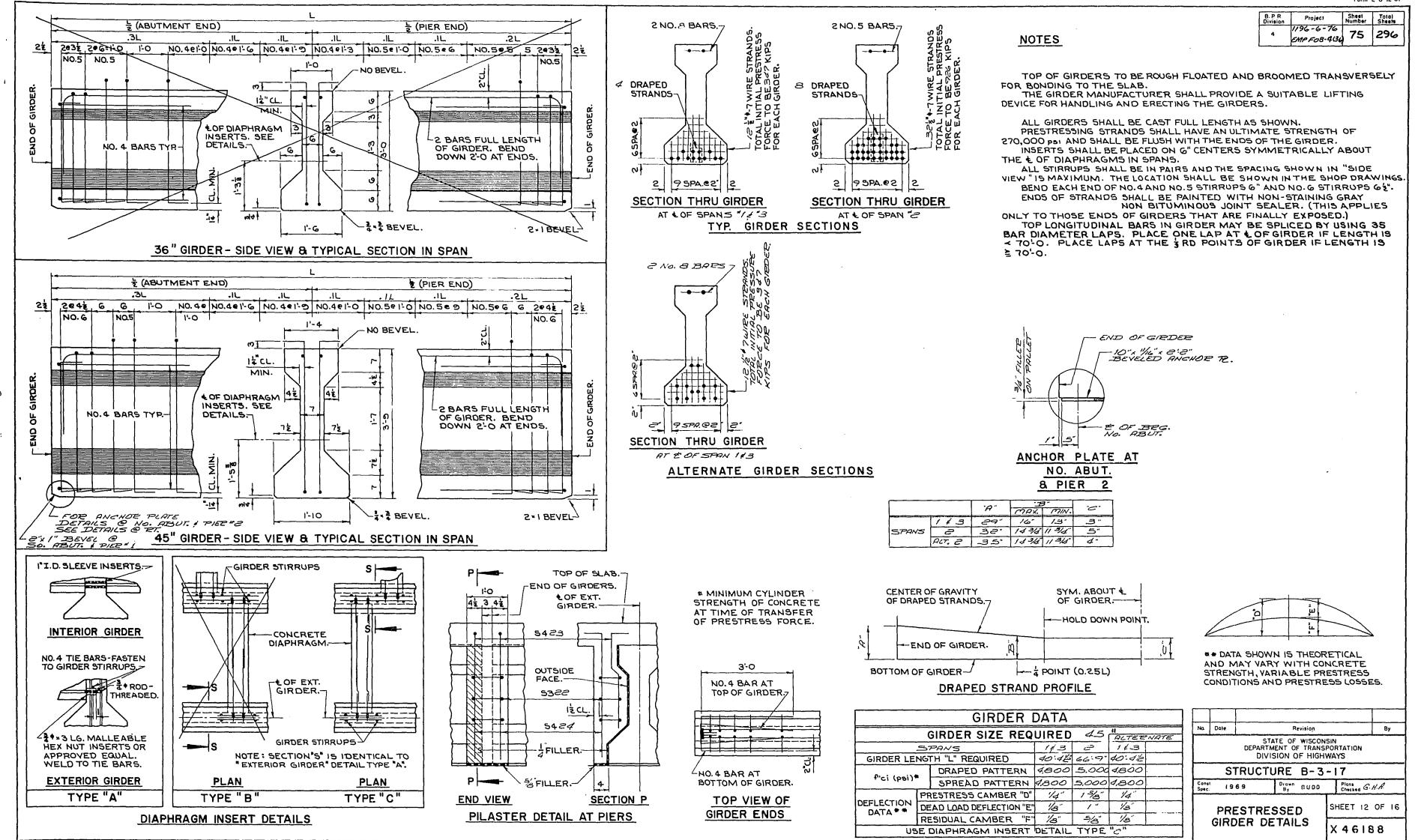
STRUCTURE B-3-17

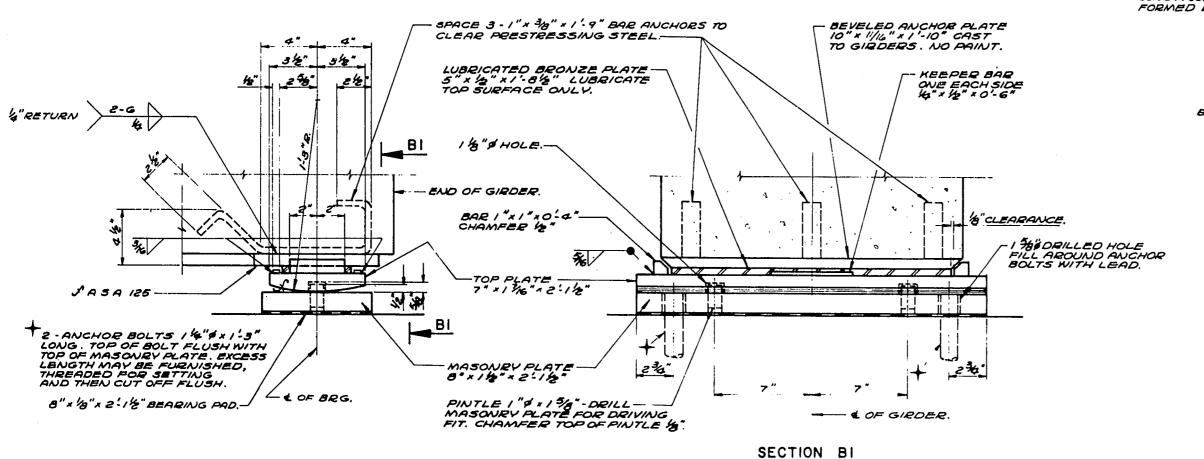
Const. 1969 Drown BUDD Plans Checked G. H.A.

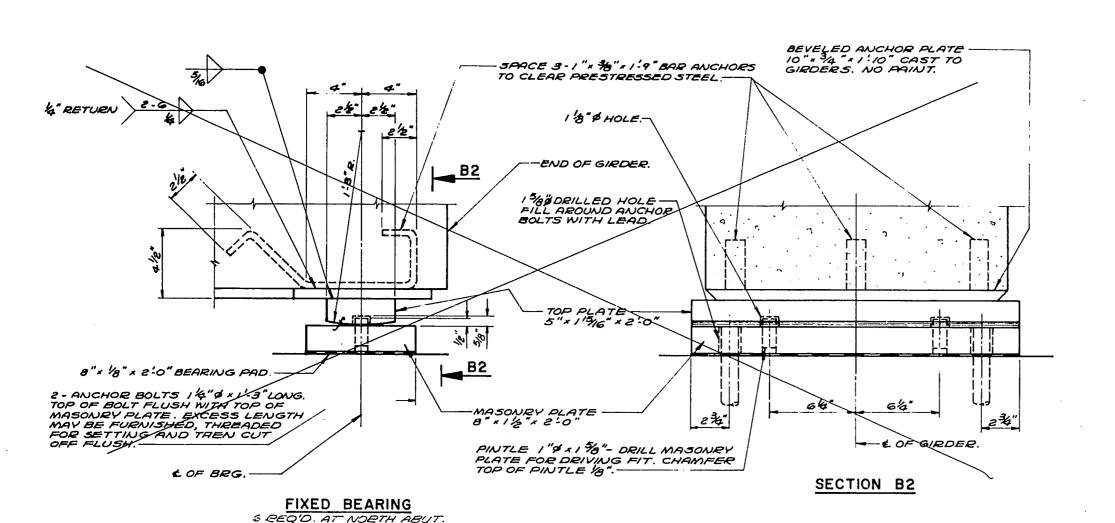
SUPERSTRUCTURE

SHEET 11 OF 16

X46187

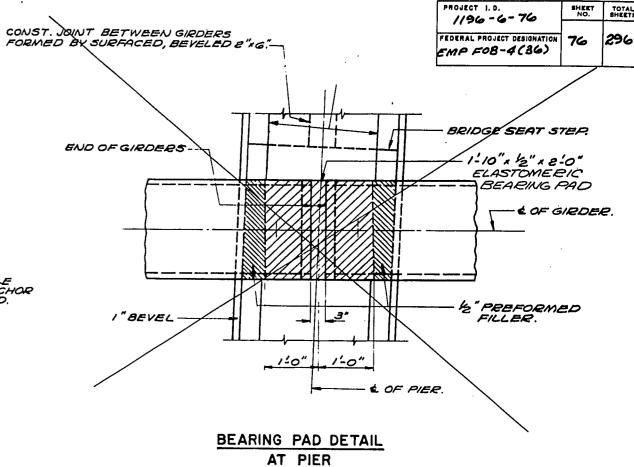


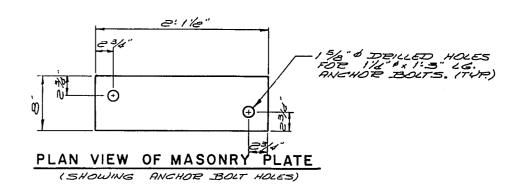




EXPANSION BEARING 4 REG'O. AT NORTH ABUT.

PIER #2





NOTES

ALL PLATE CUTS SHALL BE MACHINE OF MACHINE FLAME

ALL SUPFACES MARKED & SHALL BE MACHINE FLATTE
FINISHED, BY AN AUTOMATIC PROCESS.
ALL MATERIAL EXCEPT ANCHOR BOLTS SHALL BE MADE OF
A242 STEEL WITH A CORPOSIVE RESISTANCE OF & OR MORE TIMES THAT OF A36 STEEL.

ALL BEARING MATERIAL EXCEPT BRONZE PLATES, BEARING PADS, AND ANCHOR PLATES SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STRUCTURAL LOW ALLOY STEEL."

ALL STRUCTURAL STEEL PLATES SHALL BE FLAT ROLLED STEEL PLATES WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL.

