

COMPONENTS OF CONTRACT PLANS SET
 BRIDGE REPAIRS AND PAINTING PLANS
 SIGNING AND PAVEMENT MARKING PLANS

INDEX OF BRIDGE REPAIR AND PAINTING PLANS

SEE INDEX OF SHEETS, SHEET NO. B-2

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION

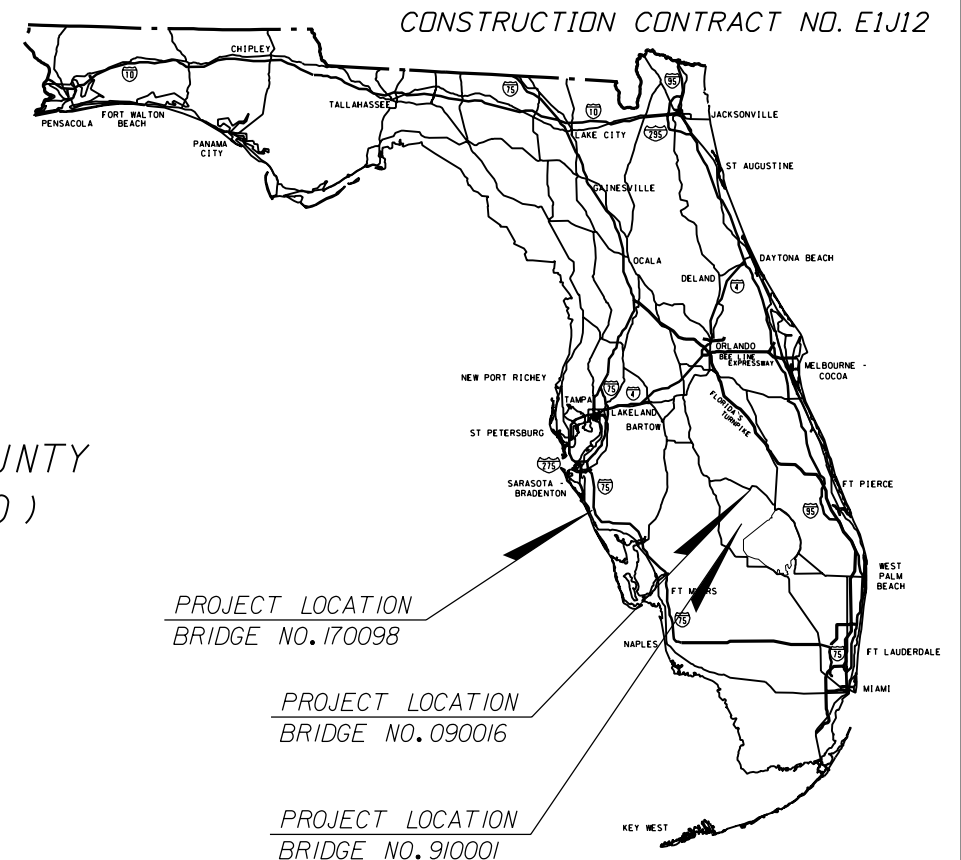
CONTRACT PLANS

FINANCIAL PROJECT ID 413817-1-52-01

HIGHLANDS COUNTY (09110000), SARASOTA COUNTY
 (17005101), OKEECHOBEE COUNTY (91070000)

STATE ROAD NOS. 700, 681, 70

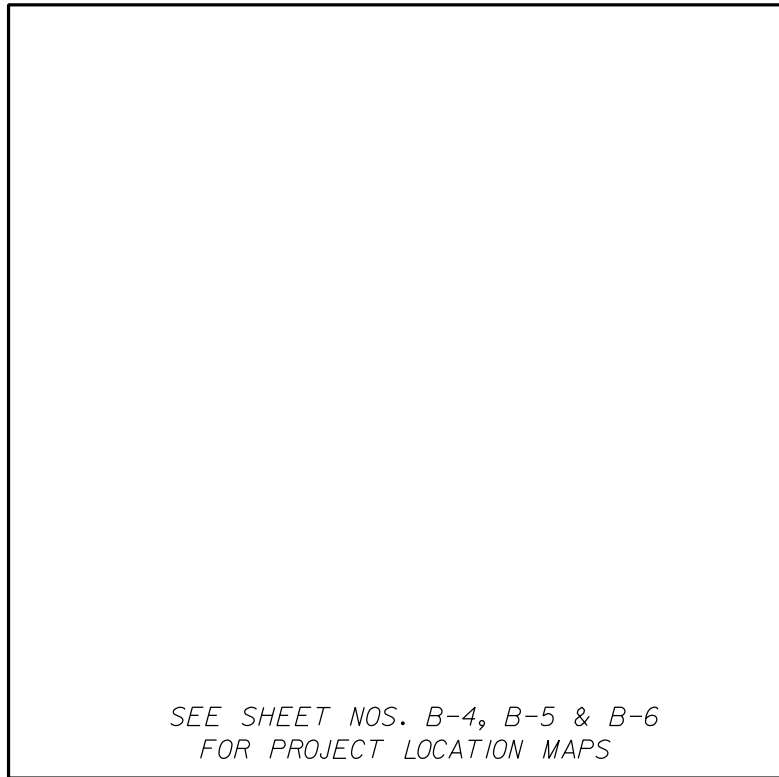
BRIDGE REPAIRS AND PAINTING



PROJECT LOCATION
 BRIDGE NO. 170098

PROJECT LOCATION
 BRIDGE NO. 090016

PROJECT LOCATION
 BRIDGE NO. 910001



SEE SHEET NOS. B-4, B-5 & B-6
 FOR PROJECT LOCATION MAPS

GOVERNING STANDARDS & SPECIFICATIONS:
 FLORIDA DEPARTMENT OF TRANSPORTATION,
 DESIGN STANDARDS DATED 2010, AND STANDARD
 SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
 DATED 2010, AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: 01/01/11
 For Design Standards Modifications go to the following Web site:
<http://www.dot.state.fl.us/rddesign>

STRUCTURE SHOP DRAWINGS
 TO BE SUBMITTED TO:

TIMOTHY FARRELL, P.E.
 E.C. DRIVER & ASSOCIATES, INC.
 500 N. WESTSHORE BLVD.
 SUITE 500
 TAMPA, FLORIDA 33609
 (813) 282-9886

PLANS PREPARED BY:

ECDriver
 & ASSOCIATES

500 N. WESTSHORE BLVD.
 SUITE 500
 TAMPA, FL 33609
 (813) 282-9886
 CONTRACT NUMBER C8W76
 VENDOR NUMBER F5922375705004
 CERTIFICATE NO. EB0003838

NOTE: THE SCALE OF THESE PLANS MAY
 HAVE CHANGED BY REPRODUCTION.

BRIDGE REPAIR AND PAINTING PLANS
 ENGINEER OF RECORD: TIMOTHY J. FARRELL, P.E.

P.E. NO.: 37264

LENGTH OF PROJECT								
	09110000		17005101		91070000		TOTAL	
	LINEAR FT.	MILES	LINEAR FT.	MILES	LINEAR FT.	MILES	LINEAR FT.	MILES
ROADWAY	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.000
BRIDGES	665.28	0.126	554.40	0.105	422.40	0.080	1,642.08	0.311
NET LENGTH OF PROJ.	665.28	0.126	554.40	0.105	422.40	0.080	1,642.08	0.311
EXCEPTIONS	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.000
GROSS LENGTH OF PROJ.	665.28	0.126	554.40	0.105	422.40	0.080	1,642.08	0.311

FDOT PROJECT MANAGER : LUIS JUARBE, P.E.

FISCAL YEAR	SHEET NO.
11	B-1

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6015-23.003, F.A.C.

INDEX OF BRIDGE REPAIR AND PAINTING PLANS

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BRIDGE NO. 090016

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B1-20	MOVABLE SPAN DECK PLAN
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BRIDGE NO. 170098

B2-1	GENERAL PLAN AND ELEVATION
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BRIDGE NO. 910001

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BX3-1 Thru BX3-16	EXISTING BRIDGE PLANS NO. 910001

REVISIONS						TIMOTHY J. FARRELL, P.E. P.E. License No: 37264 E. C. DRIVER & ASSOCIATES, INC. 500 N. Westshore Blvd. Suite 500 Tampa, Florida 33609 Certificate of Authorization No. 3838	DRAWN BY:	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		LMM 03-10	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	INDEX OF SHEETS	
						KSS 09-10	N/A	DISTRICTWIDE	413817-1-52-01	BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001	B-2	
						DESIGNED BY: TJF 03-10						
						CHECKED BY: KSS 09-10						

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

PROPOSAL : E1J12 LEAD PROJECT : 41381715201 COUNTY : STATEWIDE
 PROJECT(S) : 41381715201 COUNTY/SECTION: 09110000 MANDIST: 01

0001 SUMMARY OF STRUCTURES			PAY ITEMS		
P	ALT	ITEM	UN	41381715201	41381715201
C		DESCRIPTION	IT	IBR * 090016	IBR * 910001
		10101-1-1	IMOBILIZATION (41381715201)	ILS	0.000
		10101-1-1	IMOBILIZATION (41381715201)	ILS	1.000
		10101-1-1	IMOBILIZATION (41381715201)	ILS	0.000
		10102-1-1	MAINTENANCE OF TRAFFIC (41381715201)	ILS	1.000
		10102-1-1	MAINTENANCE OF TRAFFIC (41381715201)	ILS	0.000
		10102-1-1	MAINTENANCE OF TRAFFIC (41381715201)	ILS	0.000
		10102-60-1	WORK ZONE SIGN	IED	2272.000
		10102-71-14	BARRIER WALL, TEMPORARY, F&I, TYPE K	ILF	300.000
		10102-71-24	BARRIER WALL, TEMPORARY, RELOCATE, TYPE K	ILF	300.000
		10102-73-1	TEMPORARY GUARDRAIL	ILF	48.000
		10102-74-1	BARRICADE, TEMPORARY, TYPES I, II, DI, VP & DRUM	IED	3692.000
		10102-74-2	BARRICADE, TEMPORARY, TYPE III, 6'	IED	284.000
		10102-76-1	ADVANCE WARNING ARROW PANEL	IED	0.000
		10102-77-1	HIGH INTENSITY FLASHING LIGHTS, TEMP, TYPE B	IED	568.000
		10102-89-7	TEMPORARY CRASH CUSHION, REDIRECTIVE OPTION	ILO	2.000
		10102-99-1	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	IED	284.000
		10102-104-1	TEMPORARY TRAFFIC CONTROL, PORTABLE SIGNAL	IED	284.000
		10102-911-2	PAVEMENT MARKING REMOVABLE TAPE, WHITE-BLACK, SOLID	ILF	40.000
		10104-11-1	IFLOATING TURBIDITY BARRIER	ILF	720.000
		10110-3-1	REMOVAL OF EXISTING STRUCTURE (41381715201)	ILS	0.000
		10110-3-1	REMOVAL OF EXISTING STRUCTURE (41381715201)	ILS	1.000
		10110-3-1	REMOVAL OF EXISTING STRUCTURE (41381715201)	ILS	0.000
		10110-8-1	UNDERWATER DEBRIS REMOVAL	IDA	30.000
		10110-71-1	BRIDGE FENDER SYSTEM, REMOVAL & DISPOSAL	ILF	0.000
		10110-86-1	DELIVERY OF SALVAGEABLE MATERIAL TO FDOT (41381715201)	ILS	0.000
		10110-86-1	DELIVERY OF SALVAGEABLE MATERIAL TO FDOT (41381715201)	ILS	1.000
		10400-2-5	CONCRETE CLASS 11, SUBSTRUCTURE	ICY	53.400
		10400-32-1	CONCRETE FOR JOINT REPAIR	ICY	0.000
		10400-143-1	CLEANING & COATING CONCRETE SURFACE, CLASS 5	ISF	0.000
		10401-70-1	RESTORE SPALLED AREAS, EPOXY	ICF	10.000
		10401-70-4	RESTORE SPALLED AREAS, PORTLAND CEMENT GROUT	ICF	10.000
		10415-1-5	REINFORCING STEEL - SUBSTRUCTURE	ILB	4296.000
		10455-2-1	TREATED TIMBER PILING	ILF	0.000
		10455-34-6	PRESTRESSED CONCRETE PILING, 30" SQ	ILF	1143.000
		10455-76-1	WRAP PILE CLUSTERS	IEA	0.000
		10455-143-6	TEST PILES-PRESTRESSED CONCRETE, 30" SQ	ILF	426.000
		10455-146-1	EMBEDDED DATA COLLECTOR	IEA	3.000
		10457-2-11	CATHODIC PROTECTION INTEGRAL PILE JACKET, NON-STRUCTURAL, UP TO 16"	ILF	88.000
		10458-1-21	BRIDGE DECK EXPANSION JOINT, REHABILITATION, POUREDJOINT WITH BACKER ROD	ILF	348.000

PROPOSAL : E1J12 LEAD PROJECT : 41381715201 COUNTY : STATEWIDE
 PROJECT(S) : 41381715201 COUNTY/SECTION: 09110000 MANDIST: 01

0001 SUMMARY OF STRUCTURES			PAY ITEMS CONTINUED		
P	ALT	ITEM	UN	41381715201	41381715201
C		DESCRIPTION	IT	IBR * 090016	IBR * 910001
		10460-1-1	STRUCT STEEL - REHAB, CARBON	ILB	78383.000
		10460-1-3	STRUCT STEEL - REHABILITATION, SHOE ASSEMBLIES	ILB	1011.000
		10460-6-1	LADDERS & PLATFORMS	ILB	0.000
		10460-81-1	RIVETS - HIGH STRENGTH BOLTS, REPLACEMENT	IEA	0.000
		10460-112-1	ANCHOR BOLT REPLACEMENT	IEA	3.000
		10470-1-1	TREATED TIMBER, STRUCTURAL	IMB	0.000
		10504-1-1	ROADWAY FLOOR, STEEL, 5" OPEN	ISF	1171.000
		10561-1-1	COATING EXISTING STRUCTURAL STEEL (41381715201)	ILS	1.000
		10561-1-1	COATING EXISTING STRUCTURAL STEEL (41381715201)	ILS	0.000
		10561-1-1	COATING EXISTING STRUCTURAL STEEL (41381715201)	ILS	0.000
		10999-25-1	INITIAL CONTINGENCY AMOUNT, DO NOT BID (41381715201)	ILS	1.000

PROPOSAL : E1J12 LEAD PROJECT : 41381715201 COUNTY : STATEWIDE
 PROJECT(S) : 41381715201 COUNTY/SECTION: 09110000 MANDIST: 01

0002 SUMMARY OF SIGNING			PAY ITEMS		
P	ALT	ITEM	UN	41381715201	QUANTITY TOTAL
C		DESCRIPTION	IT		
		10706-3-1	RETRO-REFLECTIVE PAVEMENT MARKERS	IEA	58.000
		10710-11-111	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	INM	0.032
		10710-11-211	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	INM	0.032
		10711-11-111	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6"	INM	0.407
		10711-11-211	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6"	INM	0.407

PROPOSAL : E1J12 LEAD PROJECT : 41381715201 COUNTY : STATEWIDE
 PROJECT(S) : 41381715201 COUNTY/SECTION: 09110000 MANDIST: 01

0001 SUMMARY OF STRUCTURES			PAY ITEMS		
P	ALT	ITEM	UN	41381715201	QUANTITY TOTAL
C		DESCRIPTION	IT		
		10101-1-1	IMOBILIZATION (41381715201)	ILS	1.000
		10101-1-1	IMOBILIZATION (41381715201)	ILS	1.000
		10101-1-1	IMOBILIZATION (41381715201)	ILS	1.000
		10102-1-1	MAINTENANCE OF TRAFFIC (41381715201)	ILS	1.000
		10102-1-1	MAINTENANCE OF TRAFFIC (41381715201)	ILS	1.000
		10102-1-1	MAINTENANCE OF TRAFFIC (41381715201)	ILS	1.000
		10102-60-1	WORK ZONE SIGN	IED	4518.000
		10102-71-14	BARRIER WALL, TEMPORARY, F&I, TYPE K	ILF	600.000
		10102-71-24	BARRIER WALL, TEMPORARY, RELOCATE, TYPE K	ILF	600.000
		10102-73-1	TEMPORARY GUARDRAIL	ILF	96.000
		10102-74-1	BARRICADE, TEMPORARY, TYPES I, II, DI, VP & DRUM	IED	8260.000
		10102-74-2	BARRICADE, TEMPORARY, TYPE III, 6'	IED	406.000
		10102-76-1	ADVANCE WARNING ARROW PANEL	IED	127.000
		10102-77-1	HIGH INTENSITY FLASHING LIGHTS, TEMP, TYPE B	IED	1320.000
		10102-89-7	TEMPORARY CRASH CUSHION, REDIRECTIVE OPTION	ILO	4.000
		10102-99-1	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	IED	533.000
		10102-104-1	TEMPORARY TRAFFIC CONTROL, PORTABLE SIGNAL	IED	406.000
		10102-911-2	PAVEMENT MARKING REMOVABLE TAPE, WHITE-BLACK, SOLID	ILF	80.000
		10104-11-1	IFLOATING TURBIDITY BARRIER	ILF	1400.000
		10110-3-1	REMOVAL OF EXISTING STRUCTURE (41381715201)	ILS	1.000
		10110-3-1	REMOVAL OF EXISTING STRUCTURE (41381715201)	ILS	1.000
		10110-3-1	REMOVAL OF EXISTING STRUCTURE (41381715201)	ILS	1.000
		10110-8-1	UNDERWATER DEBRIS REMOVAL	IDA	30.000
		10110-71-1	BRIDGE FENDER SYSTEM, REMOVAL & DISPOSAL	ILF	216.000
		10110-86-1	DELIVERY OF SALVAGEABLE MATERIAL TO FDOT (41381715201)	ILS	1.000
		10110-86-1	DELIVERY OF SALVAGEABLE MATERIAL TO FDOT (41381715201)	ILS	1.000
		10400-2-5	CONCRETE CLASS 11, SUBSTRUCTURE	ICY	53.400
		10400-32-1	CONCRETE FOR JOINT REPAIR	ICY	1.600
		10400-143-1	CLEANING & COATING CONCRETE SURFACE, CLASS 5	ISF	10536.000
		10401-70-1	RESTORE SPALLED AREAS, EPOXY	ICF	10.000
		10401-70-4	RESTORE SPALLED AREAS, PORTLAND CEMENT GROUT	ICF	10.000
		10415-1-5	REINFORCING STEEL - SUBSTRUCTURE	ILB	4296.000
		10455-2-1	TREATED TIMBER PILING	ILF	350.000
		10455-34-6	PRESTRESSED CONCRETE PILING, 30" SQ	ILF	1143.000
		10455-76-1	WRAP PILE CLUSTERS	IEA	2.000
		10455-143-6	TEST PILES-PRESTRESSED CONCRETE, 30" SQ	ILF	426.000
		10455-146-1	EMBEDDED DATA COLLECTOR	IEA	3.000
		10457-2-11	CATHODIC PROTECTION INTEGRAL PILE JACKET, NON-STRUCTURAL, UP TO 16"	ILF	88.000
		10458-1-21	BRIDGE DECK EXPANSION JOINT, REHABILITATION, POUREDJOINT WITH BACKER ROD	ILF	638.000

PROPOSAL : E1J12 LEAD PROJECT : 41381715201 COUNTY : STATEWIDE
 PROJECT(S) : 41381715201 COUNTY/SECTION: 09110000 MANDIST: 01

0001 SUMMARY OF STRUCTURES			PAY ITEMS CONTINUED		
P	ALT	ITEM	UN	41381715201	QUANTITY TOTAL
C		DESCRIPTION	IT		
		10460-1-1	STRUCT STEEL - REHAB, CARBON	ILB	82911.000
		10460-1-3	STRUCT STEEL - REHABILITATION, SHOE ASSEMBLIES	ILB	1011.000
		10460-6-1	LADDERS & PLATFORMS	ILB	1407.000
		10460-81-1	RIVETS - HIGH STRENGTH BOLTS, REPLACEMENT	IEA	30.000
		10460-112-1	ANCHOR BOLT REPLACEMENT	IEA	3.000
		10470-1-1	TREATED TIMBER, STRUCTURAL	IMB	2.700
		10504-1-1	ROADWAY FLOOR, STEEL, 5" OPEN	ISF	2342.000
		10561-1-1	COATING EXISTING STRUCTURAL STEEL (41381715201)	ILS	1.000
		10561-1-1	COATING EXISTING STRUCTURAL STEEL (41381715201)	ILS	1.000
		10561-1-1	COATING EXISTING STRUCTURAL STEEL (41381715201)	ILS	1.000
		10999-25-1	INITIAL CONTINGENCY AMOUNT, DO NOT BID (41381715201)	ILS	1.000

PROPOSAL : E1J12 LEAD PROJECT : 41381715201 COUNTY : STATEWIDE
 PROJECT(S) : 41381715201 COUNTY/SECTION: 09110000 MANDIST: 01

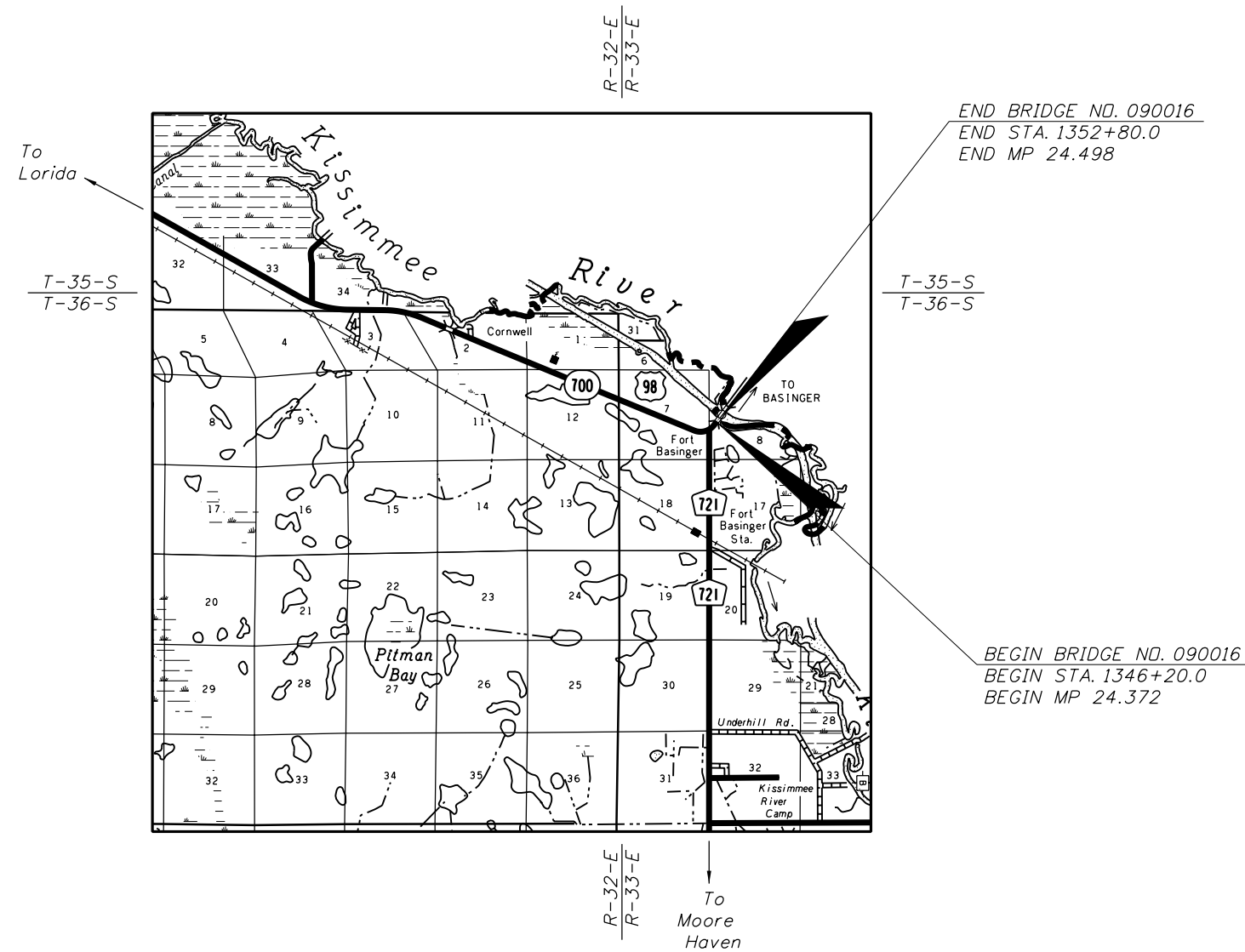
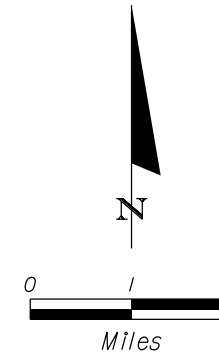
0002 SUMMARY OF SIGNING			PAY ITEMS		
P	ALT	ITEM	UN	41381715201	QUANTITY TOTAL
C		DESCRIPTION	IT		
		10706-3-1	RETRO-REFLECTIVE PAVEMENT MARKERS	IEA	58.000
		10710-11-111	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	INM	0.032
		10710-11-211	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	INM	0.032
		10711-11-111	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6"	INM	0.407
		10711-11-211	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6"	INM	0.407

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TIMOTHY J. FARRELL, P.E.
 P.E. License No: 37264
 E. C. DRIVER & ASSOCIATES, INC.
 500 N. Westshore Blvd. Suite 500
 Tampa, Florida 33609
 Certificate of Authorization No. 3838

DRAWN BY: BDS 12-10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: SUMMARY OF PAY ITEMS	REF. DWG. NO.
CHECKED BY: TJF 12-10	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	SHEET NO.
DESIGNED BY: BDS 12-10	NA	DISTRICTWIDE	413817-1-52-01	BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001	B-3
CHECKED BY: TJF 12-10	E.C. DRIVER			1/4/2011 9:26:57 AM	F:\Projects\41381715201\struct\BTRNSPORTstructures01.DGN

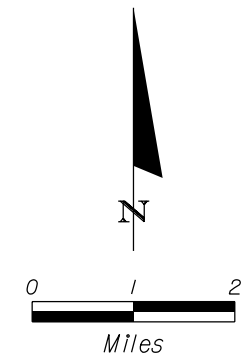
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BRIDGE NUMBER 090016
 HIGHLANDS COUNTY (09110)
 STATE ROAD 700

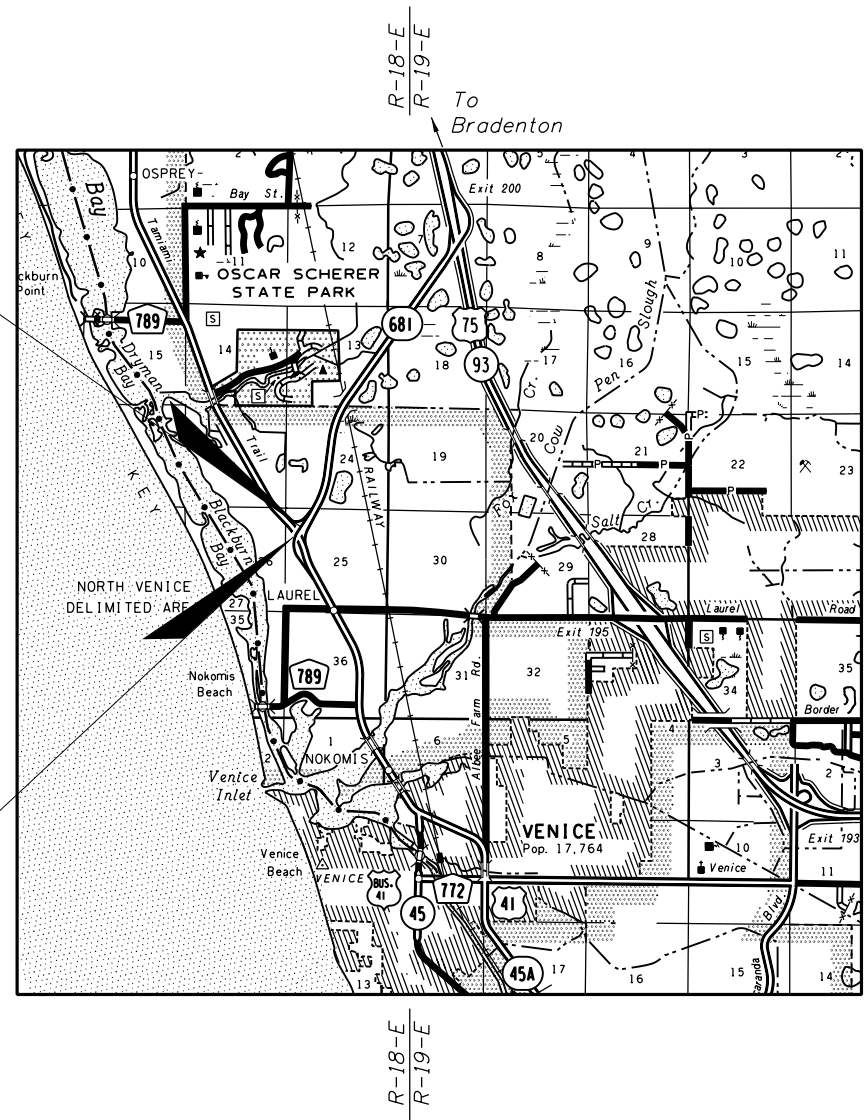
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REVISIONS						TIMOTHY J. FARRELL, P.E. P.E. License No: 37264 E. C. DRIVER & ASSOCIATES, INC. 500 N. Westshore Blvd. Suite 500 Tampa, Florida 33609 Certificate of Authorization No. 3838	DRAWN BY: LMM 01-10 CHECKED BY: KSS 09-10 DESIGNED BY: TJF 01-10 CHECKED BY: KSS 09-10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: LOCATION MAP - BRIDGE NO. 090016		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	SHEET NO.	
						700	HIGHLANDS	413817-1-52-01	BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001	B-4			



END BRIDGE NO. 170098
 END STA. 304+19.16
 END MP 0.302

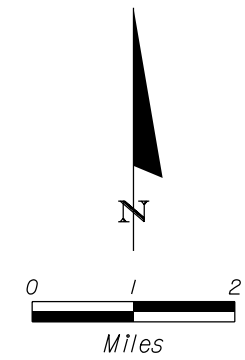
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 BEGIN STA. 298+61.16
 BEGIN MP 0.197



BRIDGE NUMBER 170098
 SARASOTA COUNTY (17005 101)
 STATE ROAD 681

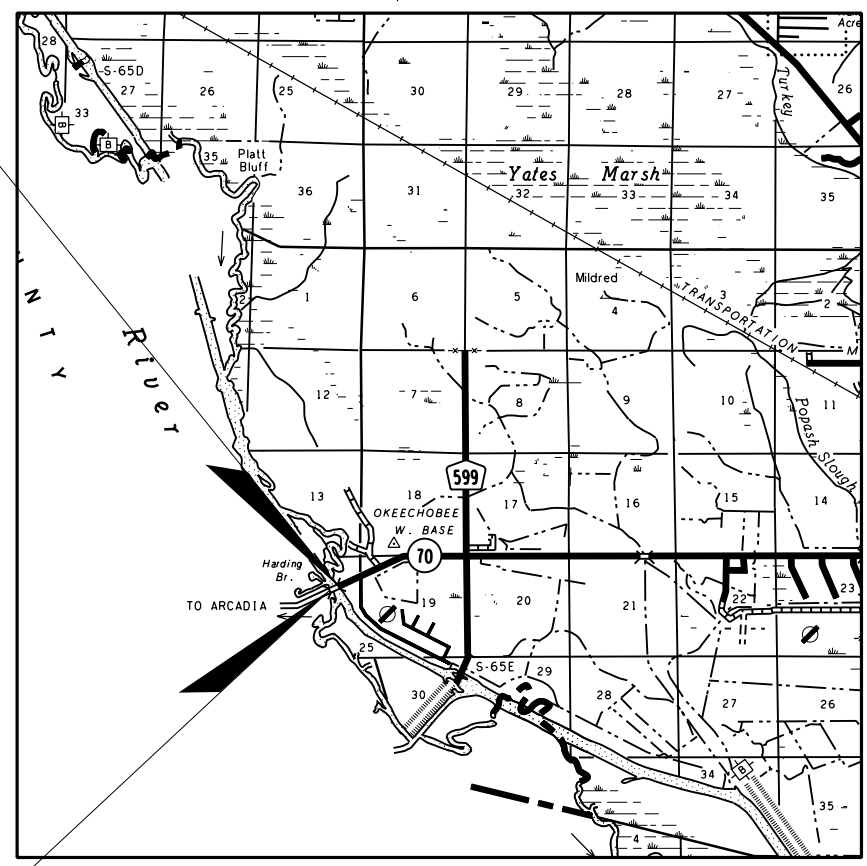
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REVISIONS						TIMOTHY J. FARRELL, P.E. P.E. License No: 37264 E. C. DRIVER & ASSOCIATES, INC. 500 N. Westshore Blvd. Suite 500 Tampa, Florida 33609 Certificate of Authorization No. 3838	DRAWN BY: LMM 01-10 CHECKED BY: KSS 09-10 DESIGNED BY: TJF 01-10 CHECKED BY: KSS 09-10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	SHEET NO.
						681	SARASOTA	413817-1-52-01	BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001	B-5		



END BRIDGE NO. 910001
 END STA. 43+26.65
 END MP 0.080

T-36-S
 T-37-S



T-36-S
 T-37-S

T-37-S
 T-38-S

T-37-S
 T-38-S

BEGIN BRIDGE NO. 910001
 BEGIN STA. 39+06.65
 BEGIN MP 0.000

BRIDGE NUMBER 910001
 OKEECHOBEE COUNTY (91070)
 STATE ROAD 70

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 66F5-23.003, F.A.C.

REVISIONS						TIMOTHY J. FARRELL, P.E. P.E. License No: 37264 E. C. DRIVER & ASSOCIATES, INC. 500 N. Westshore Blvd. Suite 500 Tampa, Florida 33609 Certificate of Authorization No. 3838	DRAWN BY: LMM 01-10 CHECKED BY: KSS 09-10 DESIGNED BY: TJF 01-10 CHECKED BY: KSS 09-10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	SHEET NO.
						70	OKEECHOBEE	413817-1-52-01	BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001	B-6		

SCOPE OF WORK:

THIS PROJECT IS FOR REPAIRS AND MAINTENANCE COATING OF BRIDGE NOS. 090016, 170098 AND 910001 IN HIGHLANDS, SARASOTA AND OKEECHOBEE COUNTIES RESPECTIVELY. UNLESS OTHERWISE NOTED, NO ORIGINAL OR EXISTING COATINGS ARE TO BE LEFT IN PLACE. THE REPAIRS INCLUDE:

1. HIGHLANDS COUNTY, BRIDGE NO. 090016:
 - a) REPAIR CONCRETE DEFICIENCIES.
 - b) CONSTRUCT CRUTCH BENTS PIERS 5, 6 AND 9.
 - c) INSTALL CATHODIC PROTECTION PILE JACKETS PIER 7.
 - d) CLEAN AND SEAL BRIDGE DECK EXPANSION JOINTS.
 - e) REPAIR CRUTCH BENT BEARING ASSEMBLY PIER 7.
 - f) REPAIR BEARING ASSEMBLY PIERS 10 AND 11.
 - g) REPLACE OPEN STEEL DECK GRATING SPAN 8.

2. SARASOTA COUNTY, BRIDGE NO. 170098:
 - a) REPLACE ARMORED EXPANSION JOINTS AT END BENTS.
 - b) CLEAN AND APPLY CLASS 5 FINISH TO EXPOSED CONCRETE SURFACES.
 - c) TIGHTEN LOOSE DIAPHRAGM BRACING CONNECTION BOLTS.

3. OKEECHOBEE COUNTY, BRIDGE NO. 910001:
 - a) CLEAN AND SEAL BRIDGE DECK EXPANSION JOINTS.
 - b) PERFORM STRUCTURAL STEEL AND WELD REPAIRS SPAN 4.
 - c) REPLACE OPEN STEEL GRID DECK SPAN 4.
 - d) REPAIR FENDER SYSTEM.
 - e) REPLACE FENDER SYSTEM ACCESS LADDERS.

11. UNLESS NOTED OTHERWISE, WELDS SHALL BE 5/16" CONTINUOUS FILLET WELDS, GROOVE WELDS SHALL BE COMPLETE JOINT PENETRATION (CJP) AND WELD ELECTRODES SHALL BE E70XX. FIELD WELDING SHALL NOT BE ALLOWED UNLESS NOTED OTHERWISE.

111. UNLESS OTHERWISE NOTED, ANCHOR BOLTS SHALL BE HOT DIP GALVANIZED, ASTM A307. WHERE STAINLESS STEEL (S.S.) IS SPECIFIED, THE MATERIALS SHALL BE ASTM A276 TYPE 316.

1v. WHERE THE NUMBER OF BOLTS IN A CONNECTION ARE NOT SPECIFIED, THE NUMBER SHOWN IN THE DRAWING IS THE NUMBER REQUIRED.

C. STEEL GALVANIZING:

WHERE SPECIFIED, STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123 AND ANCHOR BOLTS INCLUDING NUTS AND WASHERS GALVANIZED PER ASTM A153.

D. CONCRETE:

CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 346. THE FOLLOWING CONCRETE SHALL BE USED:

LOCATION	CLASS	f'c (psi)
CRUTCH BENT CAP	II	3,400
DECK JOINT	II (BRIDGE DECK)	4,500
PILE JACKET FILL	IV	5,500
PRESTRESSED CONCRETE PILES	V (SPECIAL)	6,000

E. REINFORCING STEEL:

ASTM A615, GRADE 60 (UNCOATED).

3. DIMENSION VERIFICATION:

THE DIMENSIONS AND DETAILS SHOWN ARE BASED ON LIMITED INFORMATION FROM THE ORIGINAL CONSTRUCTION PLANS AND REHABILITATION PLANS OF THE EXISTING BRIDGES (UNLESS NOTED OTHERWISE), AND MAY NOT REPRESENT THE AS-BUILT CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS IN PREPARATION OF SHOP DRAWINGS AND PRIOR TO BEGINNING CONSTRUCTION. SHOP DRAWINGS FROM THE ORIGINAL BRIDGE CONSTRUCTION OR REHABILITATION ARE NOT AVAILABLE.

4. HAZARDOUS MATERIAL:

THE PAINT ON STEEL PORTIONS OF THE BRIDGES HAS BEEN IDENTIFIED AS CONTAINING HAZARDOUS METALS INCLUDING LEAD, CHROMIUM AND CADMIUM.

5. MAINTENANCE OF NAVIGATION CHANNEL, BRIDGE NOS. 090016, 910001:

NOTIFY MR. MIKE LIEBERUM OF THE U.S. COAST GUARD (USCG) IN MIAMI, FLORIDA AT (305) 415-6744. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES, IN ADVANCE OF ACTIONS DURING BRIDGE CONSTRUCTION OR DEMOLITION WHICH POTENTIALLY AFFECT WATERWAY USERS AND PRIOR TO THE PLACEMENT OF ANY FLOATING CONSTRUCTION EQUIPMENT IN THE WATERWAY. NOTIFY THE USCG NO LESS THAN 60 DAYS IN ADVANCE OF ACTIONS WHICH COULD POTENTIALLY AFFECT THE WATERWAY.

6. STRUCTURAL STEEL COATINGS:

A. COATING MATERIALS:

COATING MATERIALS SHALL BE IN ACCORDANCE WITH SECTION 975.

B. COATING SYSTEMS:

1. HIGHLANDS COUNTY, BRIDGE NO. 090016:

- a) 1ST COAT - ORGANIC ZINC-RICH EPOXY PRIMER
- b) 2ND COAT - POLYAMIDE EPOXY INTERMEDIATE COAT
- c) 3RD COAT - ALIPHATIC POLYURETHANE FINISH COAT. FINISH COAT COLOR SHALL BE FEDERAL STANDARD NO. 595B, TABLE VIII, SHADE NO. 36622 - GLOSS (LIGHT GRAY).
- d) 4TH COAT - ALIPHATIC POLYURETHANE CLEAR COAT, WITH DYE ADDITIVE (OUTER FASCIA ONLY)

GENERAL NOTES:

1. DESIGN SPECIFICATIONS:

AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE DESIGN SPECIFICATIONS (2007 EDITION) AND APPROVED INTERIMS AS SPECIFIED IN THE STRUCTURES DESIGN GUIDELINES.

FDOT STRUCTURES DESIGN GUIDELINES (MARCH 2010).

2. MATERIALS:

A. STRUCTURAL STEEL:

STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:

- i. ASTM A709 GRADE 50 FOR MAIN LOAD CARRYING MEMBERS INCLUDING CRUTCH BEAMS AT BRIDGE 090016.
11. ASTM A709 GRADE 36 FOR SECONDARY LOAD CARRYING, STIFFENING AND BRACING MEMBERS INCLUDING SUPPLEMENTAL STEEL AT BRIDGE 910001.
111. ASTM A36 FOR ACCESS LADDERS, PLATFORMS AND OTHER SPECIFICALLY IDENTIFIED MISCELLANEOUS MEMBERS.
- 1v. ASTM A276 TYPE 304 OR 316 FOR STAINLESS STEEL PLATES AND SHAPES.

B. STEEL CONNECTIONS:

1. UNLESS NOTED OTHERWISE, BOLTED CONNECTIONS FOR STRUCTURAL STEEL (SHOP OR FIELD) SHALL BE MADE WITH 7/8" Ø ASTM A325 (TYPE I) HIGH-STRENGTH (H.S.) BOLTS AND SHALL BE PLACED IN 15/16" DIA. HOLES. BOLTS AND CORRESPONDING NUTS AND WASHERS SHALL BE MECHANICALLY GALVANIZED IN ACCORDANCE WITH ASTM B695 CLASS 50. THE NUTS SHALL BE OVERTAPPED TO THE MINIMUM AMOUNT REQUIRED FOR THE FASTENER ASSEMBLY AND SHALL BE LUBRICATED WITH A LUBRICANT CONTAINING A VISIBLE DYE SO A VISUAL CHECK CAN BE MADE FOR THE LUBRICANT AT THE TIME OF INSTALLATION. ALLOWABLE LOADS SHALL BE BASED ON A CLASS A (SLIP COEFFICIENT 0.33) CONTACT SURFACE PER AASHTO.

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REVISIONS						DRAWN BY: LMM 02-10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: SCOPE OF WORK, GENERAL NOTES AND PAY ITEM NOTES SHEET 1 OF 2		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		CHECKED BY: KSS 09-10	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	SHEET NO.
						DESIGNED BY: TJF 02-10	NA	DISTRICTWIDE	413817-1-52-01	BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001	B-7	
						CHECKED BY: KSS 09-10						

GENERAL NOTES (CONT.):

2. SARASOTA COUNTY, BRIDGE NO. 170098:

- a) 1ST COAT - ORGANIC ZINC-RICH EPOXY PRIMER
- b) 2ND COAT - POLYAMIDE EPOXY INTERMEDIATE COAT
- c) 3RD COAT - ALIPHATIC POLYURETHANE FINISH COAT. FINISH COAT COLOR SHALL BE FEDERAL STANDARD NO. 595B, TABLE VI, SHADE NO. DC6650 - (GREEN)(GLOSS).
- d) 4TH COAT - ALIPHATIC POLYURETHANE CLEAR COAT, WITH DYE ADDITIVE (OUTER FASCIAS ONLY)

3. OKEECHOBEE COUNTY, BRIDGE NO. 910001:

STRUCTURAL STEEL: (EXCLUDES OPEN STEEL DECK GRATING)

- a) 1ST COAT - ORGANIC ZINC-RICH EPOXY PRIMER
- b) 2ND COAT - POLYAMIDE EPOXY INTERMEDIATE COAT
- c) 3RD COAT - ALIPHATIC POLYURETHANE FINISH COAT. FINISH COAT COLOR SHALL BE FEDERAL STANDARD NO. 595B, TABLE VIII, SHADE NO. 36622 - GLOSS (LIGHT GRAY).
- d) 4TH COAT - ALIPHATIC POLYURETHANE CLEAR COAT, WITH DYE ADDITIVE (OUTER FASCIAS ONLY)

7. CLASS 5 APPLIED FINISH COATING, BRIDGE NO. 170098:

APPLY A CLASS 5 COATING TO ALL EXPOSED SURFACES (TOP, INSIDE, AND OUTSIDE) OF END BENT WINGWALLS, TRAFFIC BARRIERS, DECK SLAB COPING AND PIERS. SEE DETAIL THIS SHEET. REPLACE THE TRAFFIC BARRIER REFLECTIVE MARKERS IN ACCORDANCE WITH INDEX NO. 410.

8. UTILITIES:

THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED VV, VH AND WH) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATION/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.

EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.

THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS OF ANY EXCAVATION OR DEMOLITION ACTIVITY THROUGH SUNSHINE ONE-CALL OF FLORIDA, INC (1-800-432-4770) AND SHALL ALSO NOTIFY THOSE UTILITY OWNERS/AGENCIES LISTED WITHIN OR IMPACTED BY THESE PLANS, NOT LESS THAN TWO (2) FULL BUSINESS DAYS IN ADVANCE OF THE BEGINNING OF CONSTRUCTION ON THE JOB SITE.

HIGHLANDS COUNTY BRIDGE NO. 090016:

<u>COMPANY</u>	<u>CONTACT</u>	<u>TELEPHONE NUMBER</u>
CENTURY LINK GLADES ELECTRIC COOPERATIVE, INC.	KEN LUTZ JODY DOTSON	(863) 452-3185 (800) 226-4025

SARASOTA COUNTY BRIDGE NO. 170098:

<u>COMPANY</u>	<u>CONTACT</u>	<u>TELEPHONE NUMBER</u>
COMCAST CABLEVISION OF WEST FLORIDA FP&L DISTRIBUTION SARASOTA COUNTY UTILITIES TECO-PEOPLE'S GAS VERIZON FLORIDA, LLC	GONZALO ROJAS GREG COKER ANN COLEMAN DANNY SHANAHAN DENISE HUTTON	(941) 342-3578 (941) 723-4430 (941) 861-0530 (941) 342-4006 (941) 906-6722

OKEECHOBEE COUNTY BRIDGE NO. 910001:

<u>COMPANY</u>	<u>CONTACT</u>	<u>TELEPHONE NUMBER</u>
CENTURY LINK COMCAST CABLEVISION FLORIDA GAS TRANSMISSION FP&L DISTRIBUTION FP&L TRANSMISSION	KEN LUTZ BRIAN DELANEY JOSEPH SANCHEZ BILL HESTER TAMEKA AUGUSTIN	(863) 452-3185 (863) 402-3036 (407) 838-7171 (772) 337-7063 (561) 694-4107

9. ENVIRONMENTAL PERMITS AND WATER QUALITY MONITORING, BRIDGE NOS. 090016, 910001:

MEET THE REQUIREMENTS OF THE ENVIRONMENTAL PERMITS, INCLUDING WATER QUALITY MONITORING AS FOLLOWS:

- a) WATER QUALITY MONITORING SHALL BE CONDUCTED IN ACCORDANCE WITH THE SPECIAL CONDITIONS OF ANY ENVIRONMENTAL PERMIT OR BY THE CONTRACTOR UPON THE OBSERVATION THAT WATER QUALITY STANDARDS MAY BE VIOLATED BY THE CONTRACTOR'S ACTIVITIES. MONITORING LOCATIONS MAY BE SPECIFIED IN THE ENVIRONMENTAL PERMIT OR MAY BE DESIGNATED BY THE CONTRACTOR AND APPROVED BY THE PROJECT ADMINISTRATOR.

- b) THE PROJECT ADMINISTRATOR WILL BE RESPONSIBLE FOR MONITORING ANY ACTIVITIES FOR VIOLATION OF WATER QUALITY STANDARDS AS THEY RELATE TO TURBIDITY (29 NTU'S ABOVE BACKGROUND OR 0 NTU'S ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OUTSTANDING FLORIDA WATERS).
- c) IF WATER QUALITY STANDARDS ARE VIOLATED, CONSTRUCTION SHALL BE STOPPED IMMEDIATELY, THE ENVIRONMENTAL PERMIT CONDITIONS FOLLOWED AND EROSION AND SEDIMENT CONTROL DEVICES RE-EVALUATED AND APPROVED BY THE ENGINEER PRIOR TO ANY CONTINUATION OF ACTIVITY. MONITORING ACTIVITIES AND TURBIDITY READINGS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION REPORT AND CONTINUED UNTIL TURBIDITY READINGS FALL BELOW AN ACCEPTABLE LEVEL (29 NTU'S ABOVE BACKGROUND OR 0 NTU'S ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OUTSTANDING FLORIDA WATERS).
- d) WATER QUALITY MONITORING MAY BE CONDUCTED DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE PROJECT ENGINEER.

10. SALVAGEABLE MATERIAL:

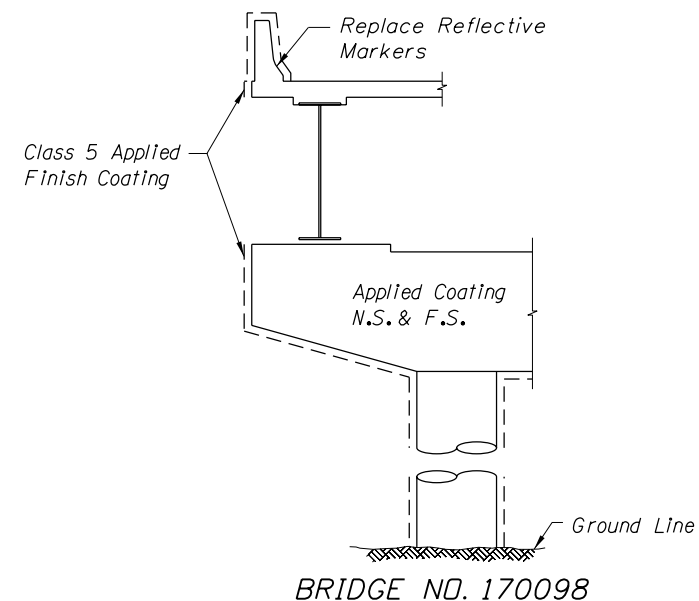
PORTIONS OF THE EXISTING OPEN STEEL GRID DECK AT BRIDGE NOS. 090016 AND 910001 SHALL BE SALVAGED AS DIRECTED BY THE ENGINEER. CARE SHALL BE TAKEN TO SEPARATE THE PANEL SECTIONS FROM THE SUPPORTING MEMBERS. WELDS SHALL BE REMOVED BY GRINDING ONLY. TORCH CUTTING IS PROHIBITED. TOUCH UP WITH PRIMER PAINT ALL AREAS OF GALVANIZING THAT HAVE BEEN COMPROMISED DURING THE REMOVAL PROCESS. DELIVER THE SALVAGED MATERIAL TO:

INFRASTRUCTURE CORPORATION OF AMERICA
8003 34th AVENUE EAST
BRADENTON, FLORIDA 34211

CONTACT TENIL MULLINS OF INFRASTRUCTURE CORPORATION OF AMERICA (ICA) AT 941-341-9300 TO COORDINATE DELIVERY OF THE SALVAGED MATERIAL.

PAY ITEM NOTES:

1. ITEM 561-1, COATING EXISTING STRUCTURAL STEEL, INCLUDES THE FOLLOWING ESTIMATED QUANTITIES OF STRUCTURAL STEEL AND STEEL BEARINGS TO BE PAINTED:
BRIDGE 090016 - 214 TONS STRUCTURAL STEEL AND EXISTING CRUTCH BENT BEAMS, 84 STEEL BEARINGS
BRIDGE 170098 - 497 TONS STRUCTURAL STEEL, 25 STEEL BEARINGS
BRIDGE 910001 - 80 TONS STRUCTURAL STEEL, 32 STEEL BEARINGS
2. ITEM 400-143, CLEANING AND COATING CONCRETE SURFACE, CLASS 5 INCLUDES THE COST OF REMOVING THE EXISTING AND INSTALLING NEW BARRIER RAIL REFLECTIVE MARKERS ON BRIDGE NO. 170098.
3. ITEM 460-1-1, STRUCTURAL STEEL-REHABILITATION, CARBON INCLUDES THE COST OF NEOPRENE BEARING PADS AT BRIDGE NO. 090016.
4. ITEM 460-1-1, STRUCTURAL STEEL-REHABILITATION, CARBON INCLUDES THE COST OF WELD REPAIRS AND BEARING ASSEMBLY SHIMMING AT BRIDGE NO. 910001.
5. ITEM 504-1-1, ROADWAY FLOOR, STEEL, 5" OPEN, INCLUDES THE COST OF LIFTING LUG COVER PLATES AT BRIDGE NOS. 090016 AND 910001.
6. ITEM 102-73, TEMPORARY GUARDRAIL, INCLUDES THE COST FOR STEEL PLATE ASSEMBLIES AND TERMINAL CONNECTORS AT BRIDGE NOS. 090016 AND 910001. COST ALSO INCLUDES RELOCATING GUARDRAIL FROM ONE CONSTRUCTION PHASE TO ANOTHER.
7. ITEM 110-3, REMOVAL OF EXISTING STRUCTURES, INCLUDES REMOVING 1,771 SQUARE FEET OF OPEN STEEL GRID DECK AT BRIDGE NOS. 090016 AND 910001. SEE NOTE 10 THIS SHEET.
8. ITEM 460-112, ANCHOR BOLT REPLACEMENT, INCLUDES JACKING THE CRUTCH BEAMS AT BRIDGE NO. 090016.
9. ITEM 460-6, LADDERS AND PLATFORMS, INCLUDES THE COST OF REMOVING THE EXISTING FENDER SYSTEM ACCESS LADDERS AND PROVIDING THE CHAIN LINKS AND NO TRESPASSING SIGNS AT BRIDGE NO. 910001.



REVISIONS						TIMOTHY J. FARRELL, P.E. P.E. License No: 37264 E. C. DRIVER & ASSOCIATES, INC. 500 N. Westshore Blvd. Suite 500 Tampa, Florida 33609 Certificate of Authorization No. 3838	DRAWN BY:	STATE OF FLORIDA			SHEET TITLE:	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		LMM 02-10	DEPARTMENT OF TRANSPORTATION			SCOPE OF WORK, GENERAL NOTES AND PAY ITEM NOTES	
							CHECKED BY:	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	
						TJF 02-10	NA	DISTRICTWIDE	413817-1-52-01	BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001		
						CHECKED BY:					SHEET NO.	
						KSS 09-10					B-8	

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GENERAL NOTES

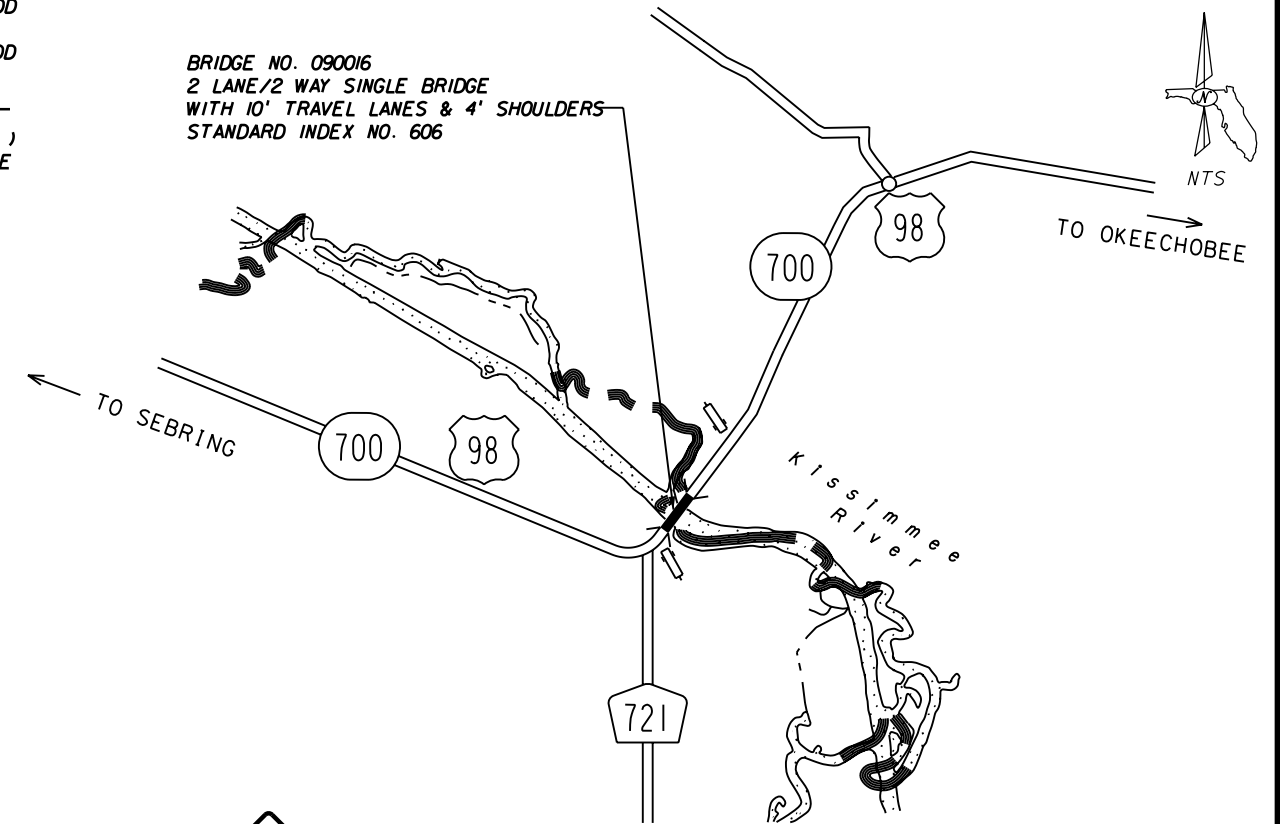
- SINGLE LANE CLOSURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THIS PLAN AND FDOT DESIGN STANDARD INDICES 600 AND 606. ALL LANE CLOSURES SHALL BE REPORTED TO THE LOCAL EMERGENCY AGENCIES, THE MEDIA AND THE DISTRICT 1 INFORMATION OFFICE.
- LANE CLOSURE SHALL NOT BE PERMITTED DURING NON-WORKING PERIODS.
- LANE CLOSURE SHALL BE PERMITTED DURING THE FOLLOWING TIMES:
BRIDGE NO. 090016 / SR 700- (HIGHLANDS COUNTY)
NO LANE CLOSURE RESTRICTIONS
- ALL LANES MUST BE OPEN FOR TRAFFIC IF DRIVER DELAYS ARE GREATER THAN 5 MINUTES.
- EXISTING POSTED SPEED LIMIT IS 60 MPH AND SHALL BE MAINTAINED.
- THE CONTRACTOR SHALL FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) PER THIS SHEET. THESE SIGNS SHALL BE IN PLACE ONE WEEK PRIOR TO THE START OF AND DURING ANY CONSTRUCTION ACTIVITY. THE FOLLOWING MESSAGES SHALL BE DISPLAYED:

ONE (1) WEEK PRIOR TO LANE CLOSURE

(MSG 1) BRIDGE LANE CLOSURE
 (MSG 2) XP MM/DD TO XA MM/DD
 ALTERNATING MESSAGES

DURING LANE CLOSURE

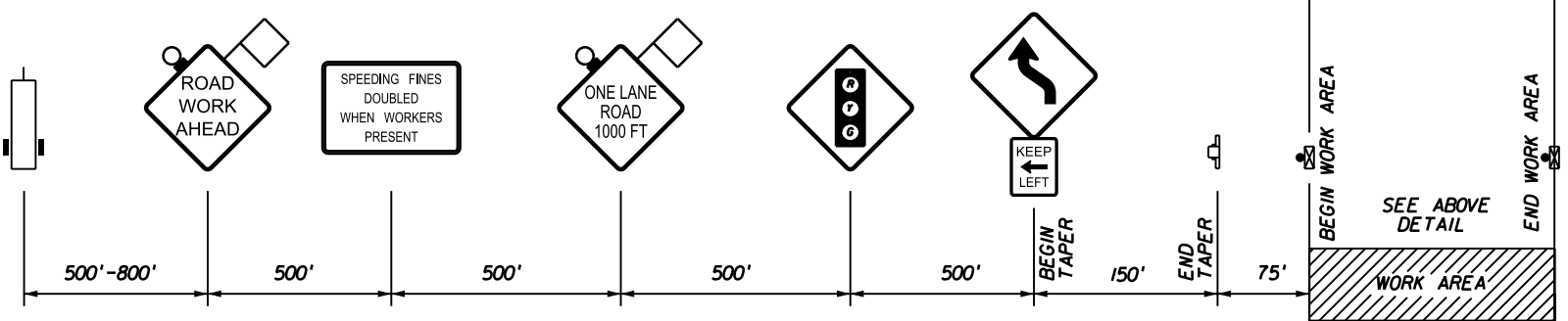
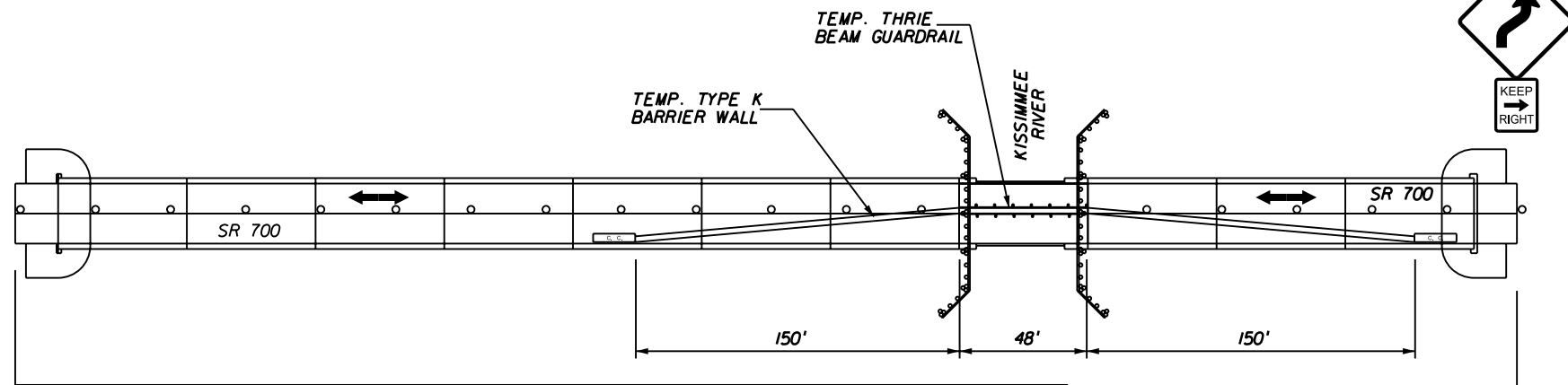
(MSG 1) USE EXTREME CAUTION
 (MSG 2) ONE LANE ROAD AHEAD
 ALTERNATING MESSAGES



SR 700 (U.S. 98) OVER KISSIMMEE RIVER (HIGHLANDS COUNTY)

LEGEND

- TYPE III BARRICADE (WITH STEADY BURNING LIGHT)
- PORTABLE CHANGEABLE (VARIABLE) MESSAGE SIGN
- PORTABLE SIGNAL
- CRASH CUSHION
- CHANNELIZING DEVICE



SEE STANDARD INDEX NO. 606
BRIDGE NO. 090016 (ONE DIRECTION SHOWN, MIRROR FOR OPPOSITE DIRECTION)

SR 700 - TEMPORARY SIGNAL CONTROLLER TIMINGS

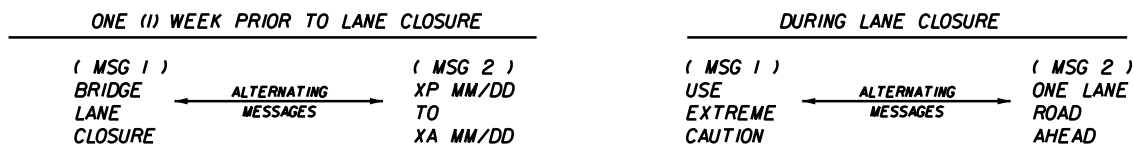
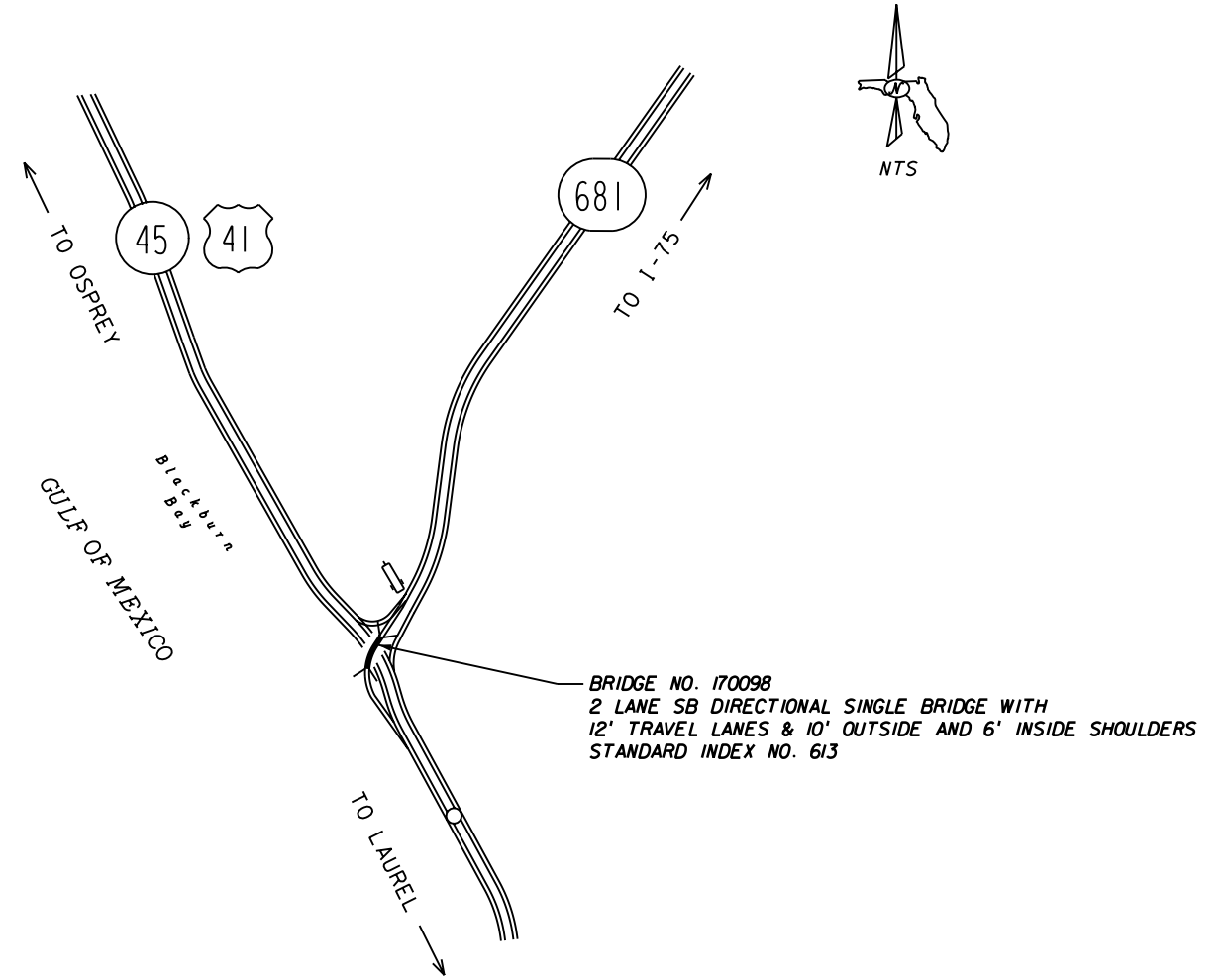
TIMING FUNCTION	MOVEMENT NUMBER	2	6
MINIMUM GREEN		21	21
EXTENSION			
MAXIMUM GREEN 1		27	28
MAXIMUM GREEN 2			
YELLOW CLEARANCE		4	4
ALL RED		1	1
PEDESTRIAN WALK			
PED. CLEARANCE			
RECALL			

REVISIONS						ASHLEY L. WILLIS, P.E. P.E. License No: 64600 E. C. DRIVER & ASSOCIATES, INC. 500 N. Westshore Blvd, Suite 500 Tampa, Florida 33609 Certificate of Authorization No. 3838	DRAWN BY: JW 02-10 CHECKED BY: ALW 02-10 DESIGNED BY: JW 02-10 CHECKED BY: JSM 02-10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: TRAFFIC CONTROL PLAN - BRIDGE NO. 090016 PROJECT NAME: BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001	REF. DWG. NO. SHEET NO. B-9
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						700	HIGHLANDS	413817-1-52-01				

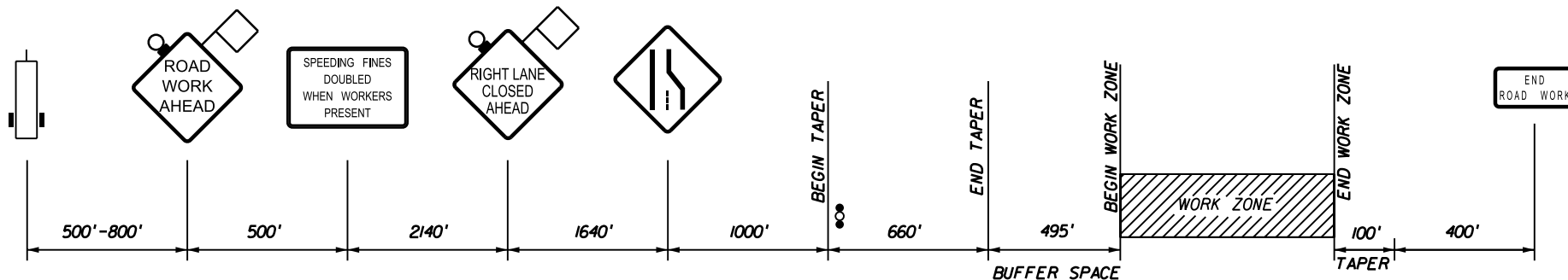
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6015-23.003, F.A.C.

GENERAL NOTES

- SINGLE LANE CLOSURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THIS PLAN AND FDOT DESIGN STANDARD INDICES 600 AND 613. ALL LANE CLOSURES SHALL BE REPORTED TO THE LOCAL EMERGENCY AGENCIES, THE MEDIA AND THE DISTRICT 1 INFORMATION OFFICE.
- LANE CLOSURE SHALL NOT BE PERMITTED DURING NON-WORKING PERIODS.
- LANE CLOSURE SHALL BE PERMITTED DURING THE FOLLOWING TIMES:
BRIDGE NO. 170098 / SR 681- (SARASOTA COUNTY)
NO LANE CLOSURE RESTRICTIONS
- ALL LANES MUST BE OPEN FOR TRAFFIC IF DRIVER DELAYS ARE GREATER THAN 5 MINUTES.
- EXISTING POSTED SPEED LIMIT IS 55 MPH AND SHALL BE MAINTAINED.
- THE CONTRACTOR SHALL FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) PER THIS SHEET. THESE SIGNS SHALL BE IN PLACE ONE WEEK PRIOR TO THE START OF AND DURING ANY CONSTRUCTION ACTIVITY. THE FOLLOWING MESSAGES SHALL BE DISPLAYED:



SR 681 OVER SR 45 (U.S. 41)
(SARASOTA COUNTY)



STANDARD INDEX NO. 613
BRIDGE NO. 170098

LEGEND	
	PORTABLE CHANGEABLE (VARIABLE) MESSAGE SIGN
	ADVANCE WARNING ARROW PANEL

REVISIONS						ASHLEY L. WILLIS, P.E. P.E. License No: 64600 E. C. DRIVER & ASSOCIATES, INC. 500 N. Westshore Blvd, Suite 500 Tampa, Florida 33609 Certificate of Authorization No. 3838	DRAWN BY: JW 02-10 CHECKED BY: ALW 02-10 DESIGNED BY: JW 02-10 CHECKED BY: JSM 02-10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME		SHEET NO.
						681	SARASOTA	413817-1-52-01	TRAFFIC CONTROL PLAN - BRIDGE NO. 170098 BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001		B-10		

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GENERAL NOTES

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- LANE CLOSURE SHALL NOT BE PERMITTED DURING NON-WORKING PERIODS.
- LANE CLOSURE SHALL BE PERMITTED DURING THE FOLLOWING TIMES:
BRIDGE NO. 910001 / SR 70- (OKEECHOBEE COUNTY)
NO LANE CLOSURE RESTRICTIONS
- ALL LANES MUST BE OPEN FOR TRAFFIC IF DRIVER DELAYS ARE GREATER THAN 5 MINUTES.
- EXISTING POSTED SPEED LIMIT IS 60 MPH AND SHALL BE MAINTAINED.
- THE CONTRACTOR SHALL FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) PER THIS SHEET. THESE SIGNS SHALL BE IN PLACE ONE WEEK PRIOR TO THE START OF AND DURING ANY CONSTRUCTION ACTIVITY. THE FOLLOWING MESSAGES SHALL BE DISPLAYED:

ONE (1) WEEK PRIOR TO LANE CLOSURE

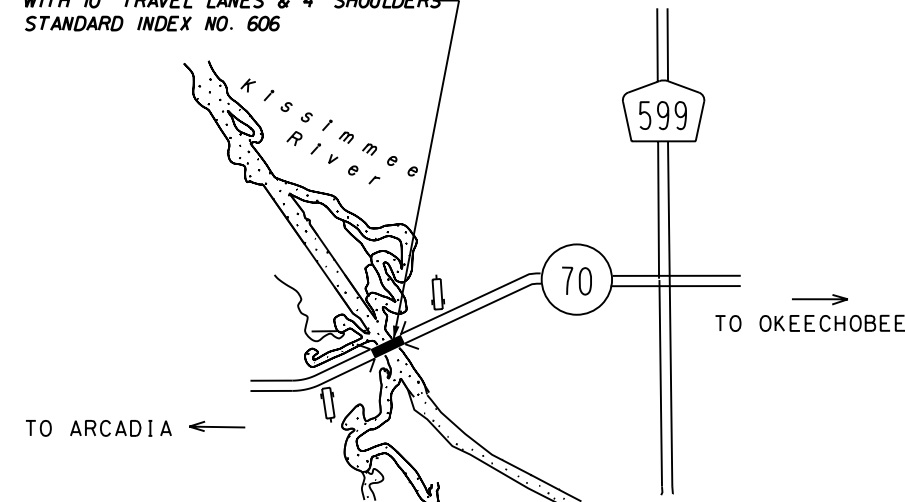
(MSG 1) BRIDGE LANE CLOSURE
 (MSG 2) XP MM/DD TO XA MM/DD
 ALTERNATING MESSAGES

DURING LANE CLOSURE

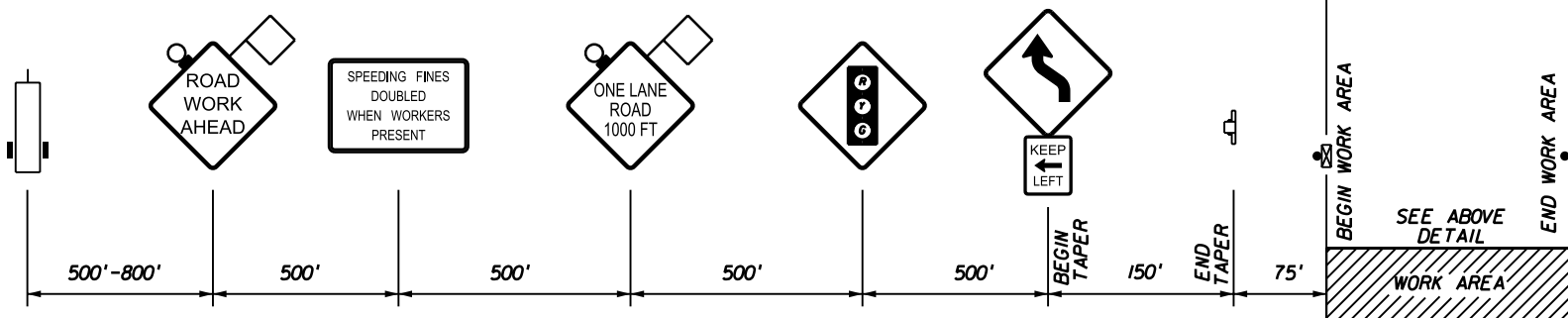
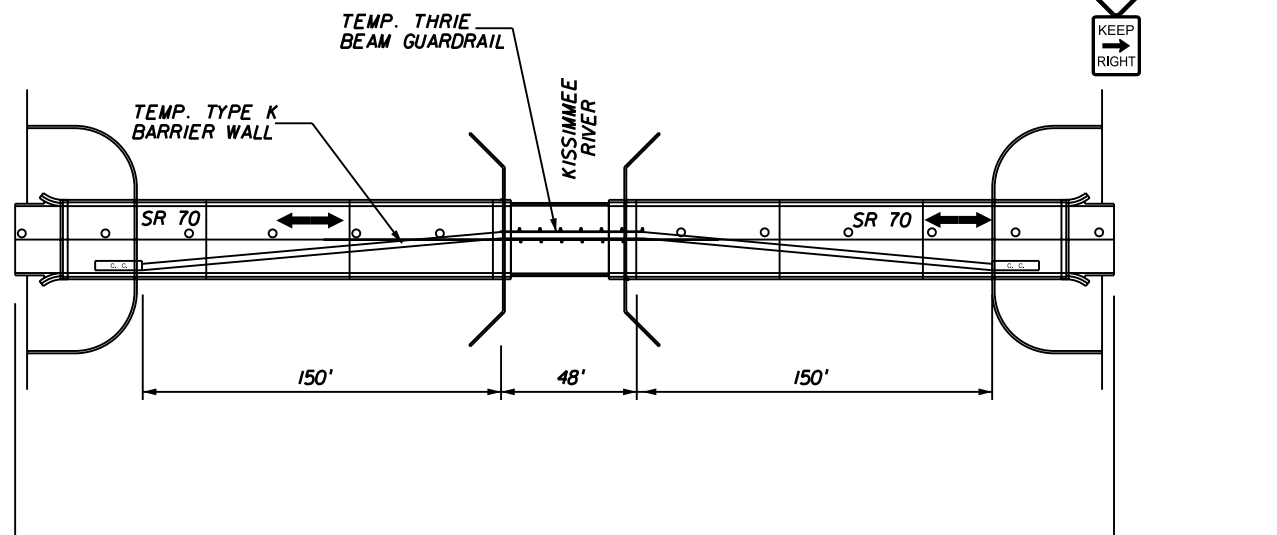
(MSG 1) USE EXTREME CAUTION
 (MSG 2) ONE LANE ROAD AHEAD
 ALTERNATING MESSAGES



BRIDGE NO. 910001
 2 LANE/2 WAY SINGLE BRIDGE
 WITH 10' TRAVEL LANES & 4' SHOULDERS
 STANDARD INDEX NO. 606



SR 70 OVER KISSIMMEE RIVER (OKEECHOBEE COUNTY)



SEE STANDARD INDEX NO. 606

BRIDGE NO. 910001 (ONE DIRECTION SHOWN, MIRROR FOR OPPOSITE DIRECTION)

LEGEND

- TYPE III BARRICADE (WITH STEADY BURNING LIGHT)
- PORTABLE CHANGEABLE (VARIABLE) MESSAGE SIGN
- PORTABLE SIGNAL
- CRASH CUSHION
- CHANNELIZING DEVICE

SR 70 - TEMPORARY SIGNAL

CONTROLLER TIMINGS			
TIMING FUNCTION			
MOVEMENT NUMBER	2	6	
MINIMUM GREEN	21	21	
EXTENSION			
MAXIMUM GREEN 1	27	28	
MAXIMUM GREEN 2			
YELLOW CLEARANCE	4	4	
ALL RED	1	1	
PEDESTRIAN WALK			
PED. CLEARANCE			
RECALL			

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ASHLEY L. WILLIS, P.E.
 P.E. License No: 64600
 E. C. DRIVER & ASSOCIATES, INC.
 500 N. Westshore Blvd, Suite 500
 Tampa, Florida 33609
 Certificate of Authorization No. 3838

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION

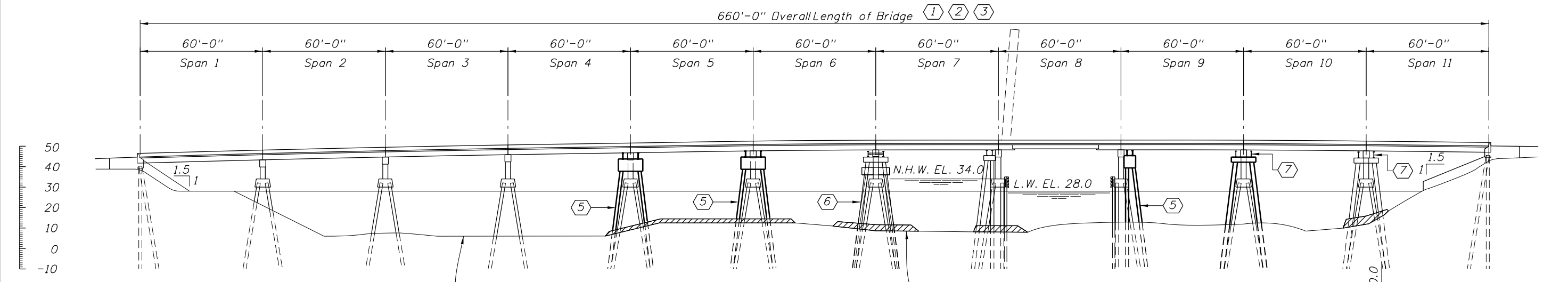
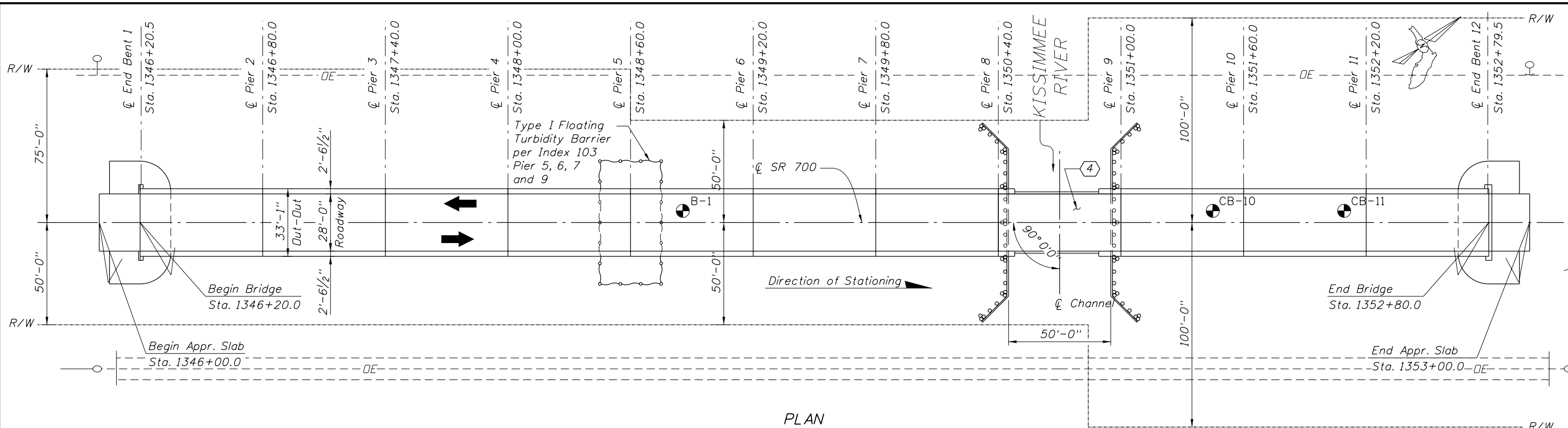
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
70	OKEECHOBEE	413817-1-52-01

TRAFFIC CONTROL PLAN - BRIDGE NO. 910001

BRIDGE REPAIRS AND PAINTING
 NOS. 090016, 170098 AND 910001

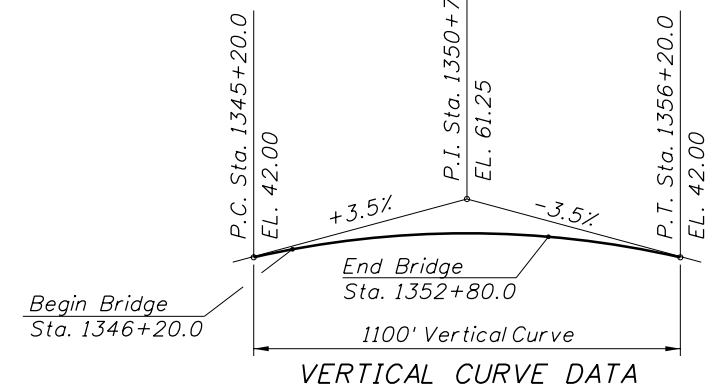
REF. DWG. NO.
 SHEET NO.
 B-11

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REPAIR LEGEND

- ① Clean and Seal Deck Joints
- ② Clean and Paint Structural Steel and Existing Crutch Bent Beams
- ③ Repair Concrete Superstructure and Substructure
- ④ Replace Open Steel Grid Deck
- ⑤ Install Crutch Bent Piers 5, 6, and 9
- ⑥ Install Pile Jackets and Repair Crutch Bent Pier 7
- ⑦ Repair Bearings Piers 10 and 11.



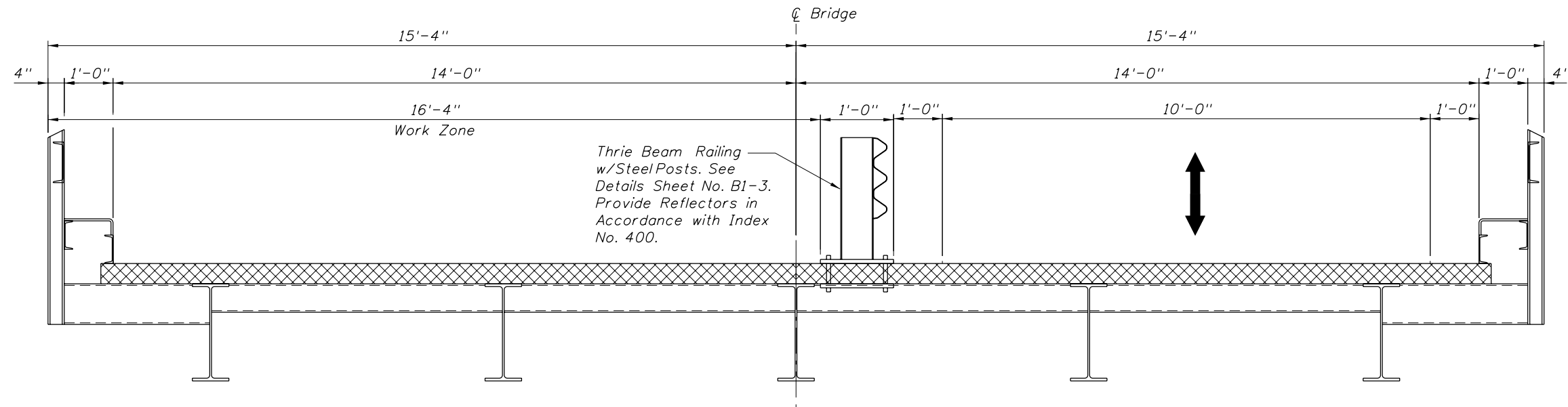
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TIMOTHY J. FARRELL, P.E.
P.E. License No: 37264
E. C. DRIVER & ASSOCIATES, INC.
500 N. Westshore Blvd. Suite 500
Tampa, Florida 33609
Certificate of Authorization No. 3838

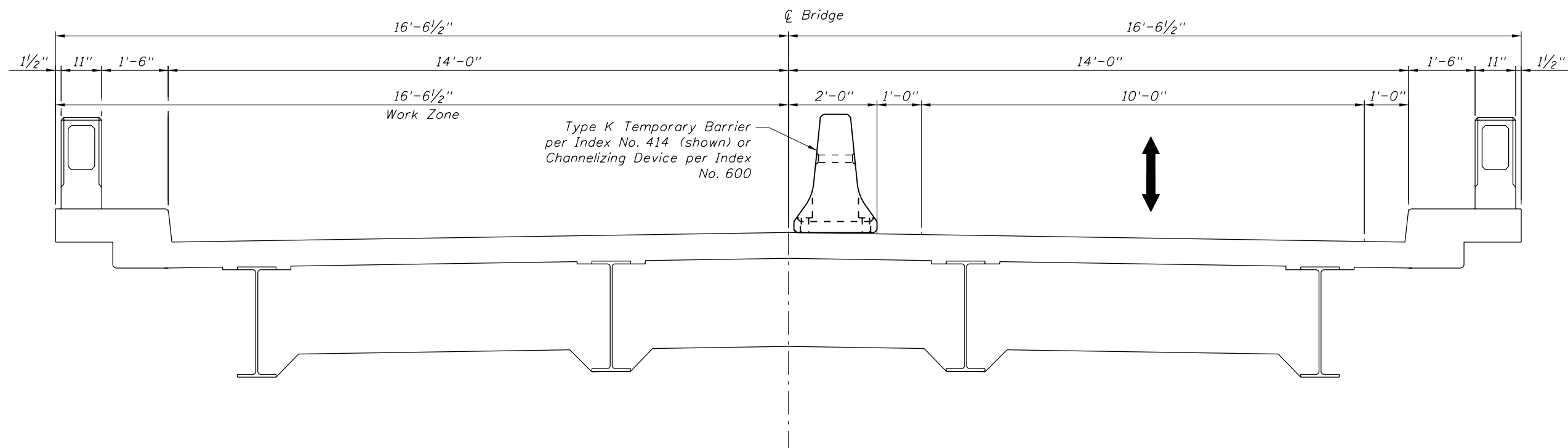
DRAWN BY: JPN 02-10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		SHEET TITLE:
CHECKED BY: KSS 09-10			BRIDGE NO. 090016 GENERAL PLAN & ELEVATION
DESIGNED BY: TJF 02-10	ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CHECKED BY: KSS 09-10	700	HIGHLANDS	413817-1-52-01

PROJECT NAME:	BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001	REF. DWG. NO.
		SHEET NO. BI-1

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SECTION THRU MOVABLE SPAN



SECTION THRU APPROACH SPANS

NOTES:

1. View looking in direction of stationing showing westbound lane closure. Eastbound lane closure opposite hand.
2. See Traffic Control Plans for additional details.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TIMOTHY J. FARRELL, P.E.
P.E. License No: 37264
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500 N. Westshore Blvd. Suite 500
Tampa, Florida 33609
Certificate of Authorization No. 3838

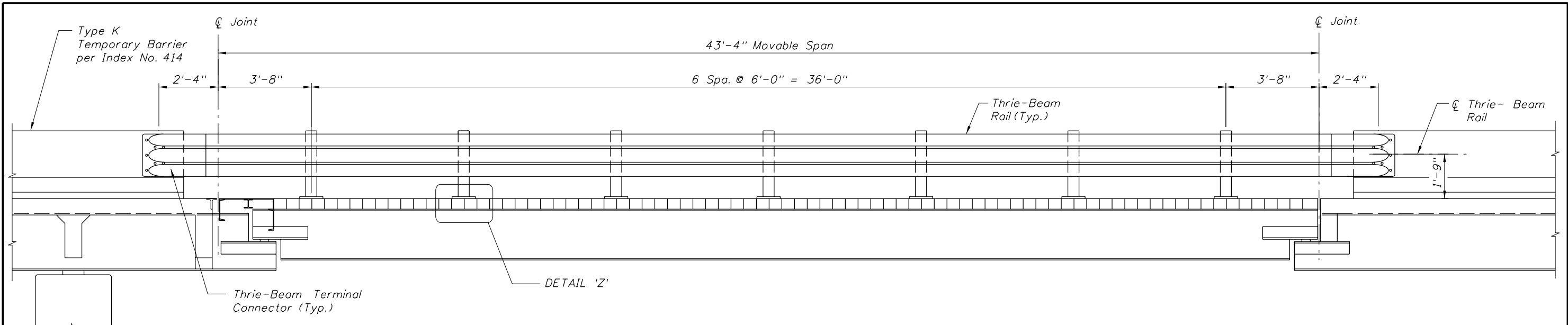
DRAWN BY:
LMM 02-10
CHECKED BY:
KSS 09-10
DESIGNED BY:
TJF 02-10
CHECKED BY:
KSS 09-10

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

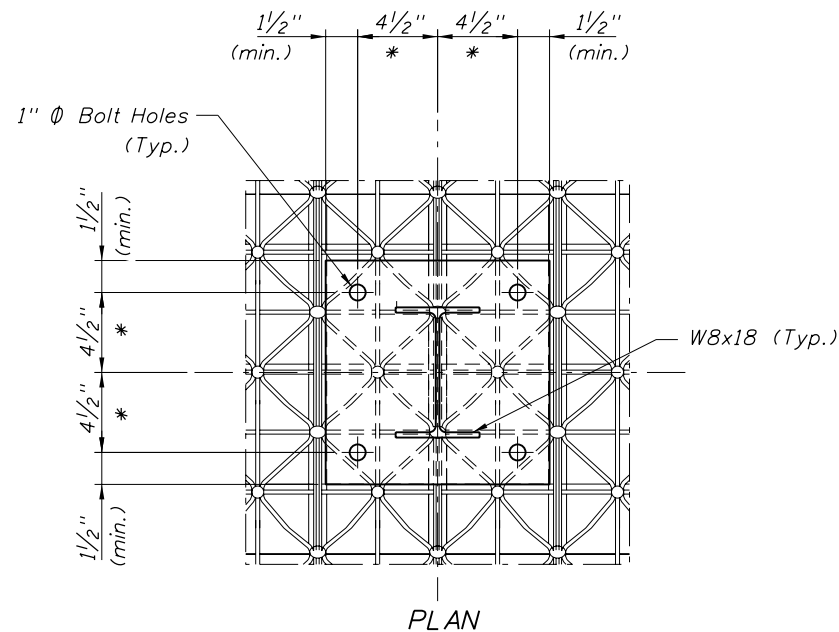
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
700	HIGHLANDS	413817-1-52-01

SHEET TITLE:	BRIDGE NO. 090016 TEMPORARY BARRIER DETAILS - SHEET 1 OF 2	REF. DWG. NO.
PROJECT NAME:	BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001	SHEET NO. BI-2

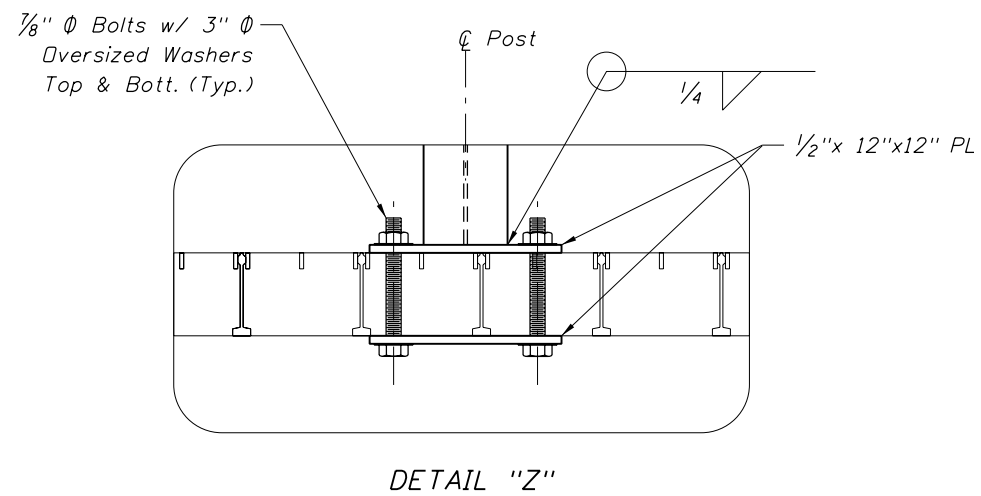
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 66F5-23.003, F.A.C.



TEMPORARY BARRIER ELEVATION
 (Showing Movable Span and Adjacent Spans)



* Contractor shall field verify that location of anchor bolts for Temporary Barrier Post base plates do not interfere with grid deck bars. Adjust spacing as required.



NOTES:

1. For Details of Thrie-Beam Guardrail, see FDOT Design Standards Index No. 400.
2. Thrie-Beam Guardrail to be relocated from one phase to the other.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

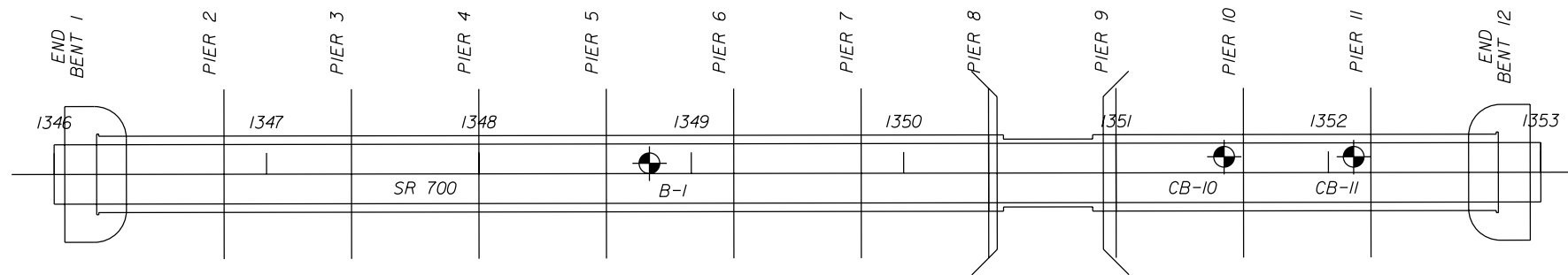
TIMOTHY J. FARRELL, P.E.
 P.E. License No: 37264
E. C. DRIVER & ASSOCIATES, INC.
 500 N. Westshore Blvd. Suite 500
 Tampa, Florida 33609
 Certificate of Authorization No. 3838

DRAWN BY:
LMM 02-10
 CHECKED BY:
KSS 09-10
 DESIGNED BY:
TJF 02-10
 CHECKED BY:
KSS 09-10

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
700	HIGHLANDS	413817-1-52-01

SHEET TITLE:		REF. DWG. NO.
BRIDGE NO. 090016 TEMPORARY BARRIER DETAILS - SHEET 2 OF 2		
PROJECT NAME:		SHEET NO.
BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001		BI-3

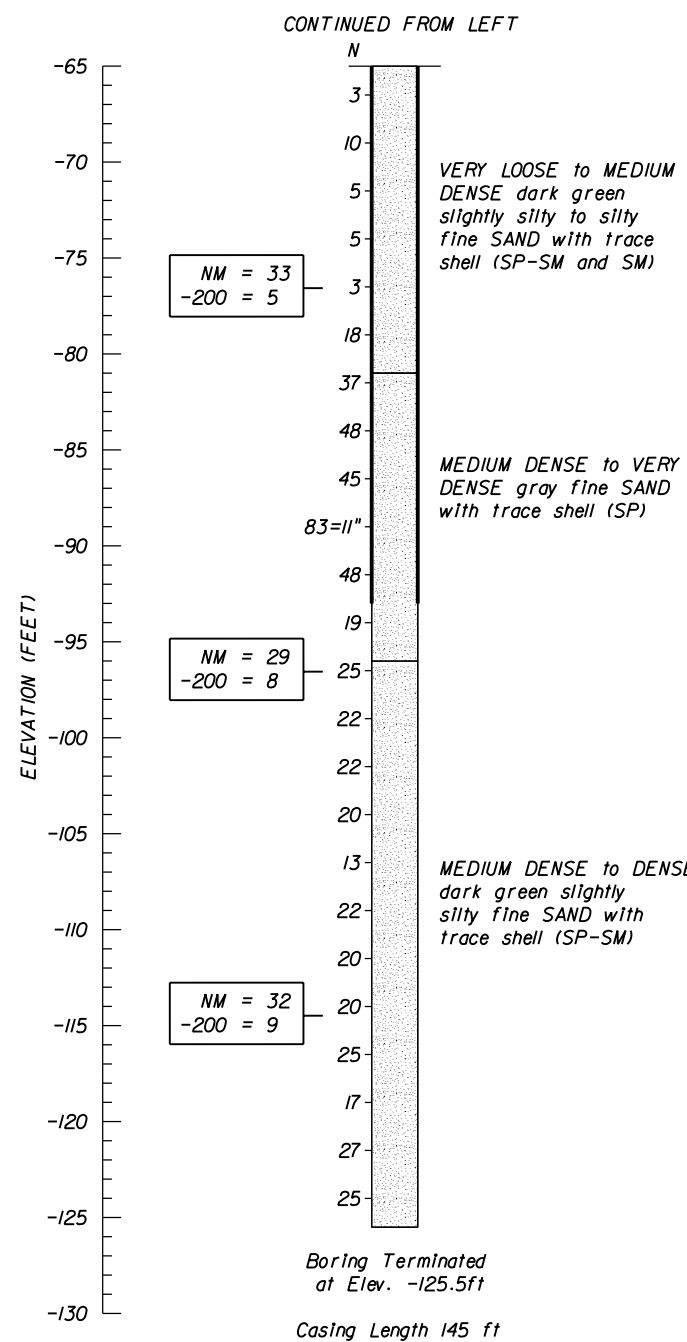
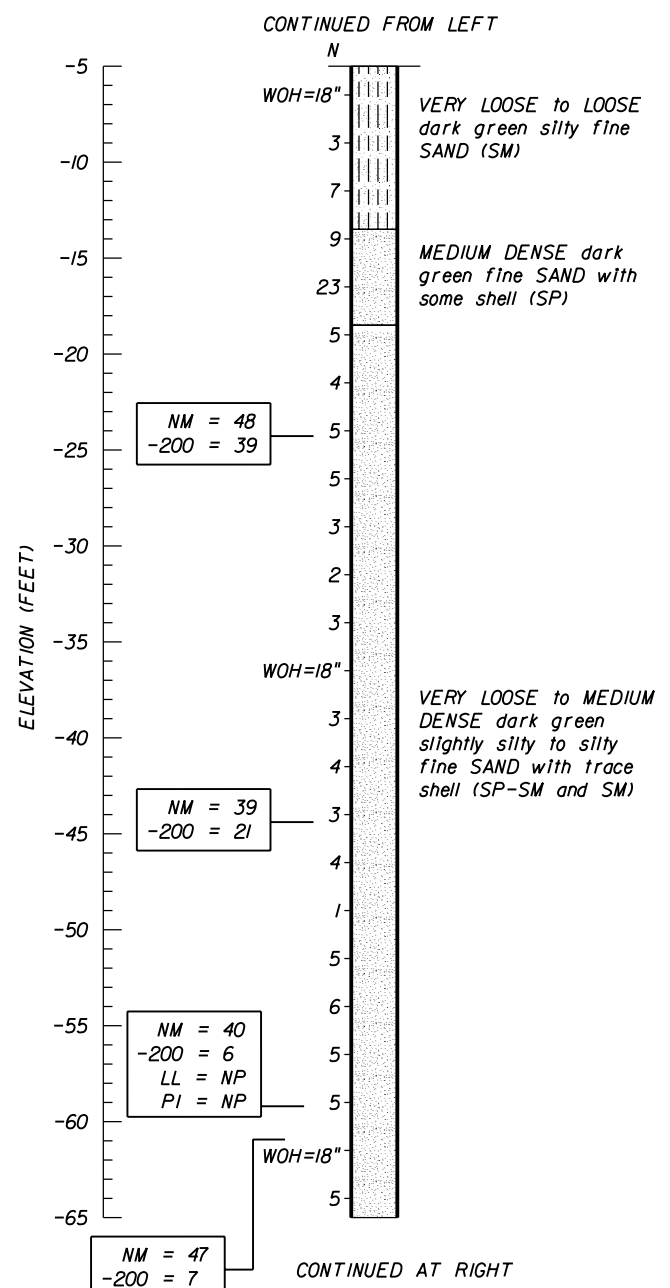
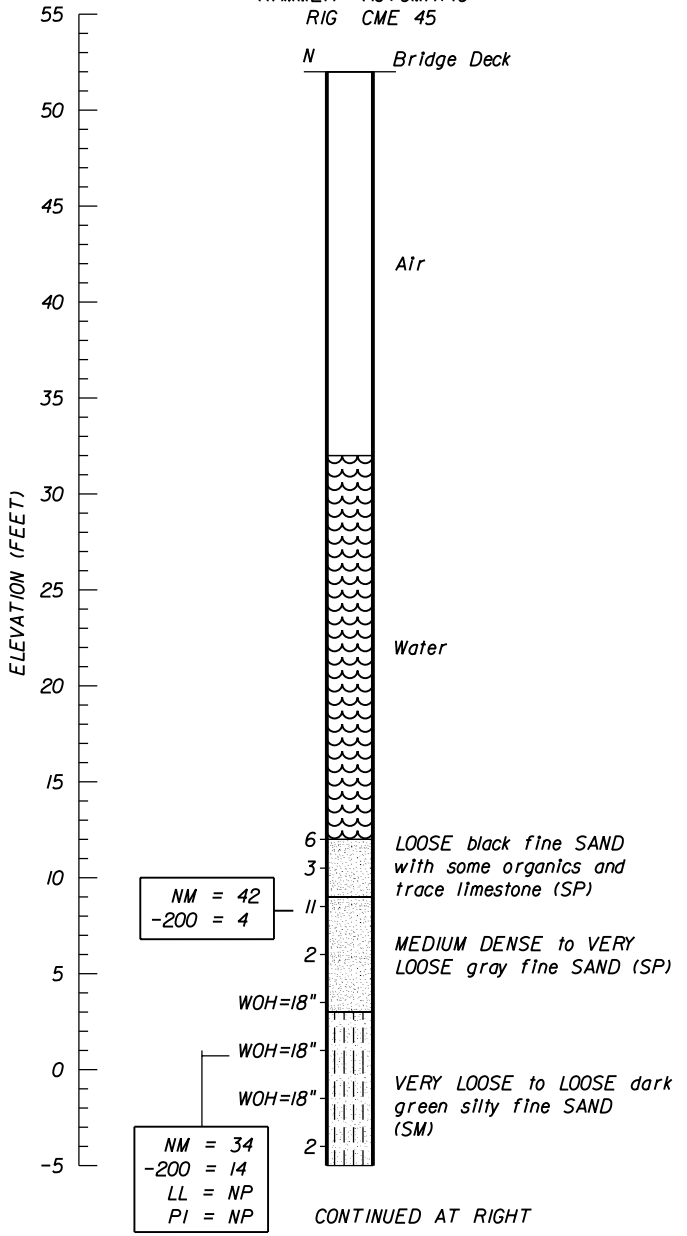
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LEGEND

- SP and SP-SM, Fine sand and slightly silty fine sand
- SM, Silty Sand

BOR # B-1
 LOCATION N 27.36512°, W 081.05136°
 BRIDGE ELEV. 52' (EST)
 MUDLINE ELEV. 12' (EST)
 DATE 6/14/2010
 DRILLER CARNEY
 HAMMER AUTOMATIC
 RIG CME 45



= Casing used

NM = Natural Moisture Content
 -200 = % Passing #200 Sieve
 LL = Liquid Limit
 PI = Plasticity Index

ENVIRONMENTAL CLASSIFICATION
 SUBSTRUCTURE: SLIGHTLY AGGRESSIVE

Sample Type	pH	Chlorides (ppm)	Sulphates (ppm)	Resistivity (Ohm-cm)
Soil	7.3	80	127	3600

GENERAL NOTES

DRILL AND PENETRATION TESTING WERE PERFORMED IN ACCORDANCE WITH ASTM D 1586. NUMBER TO THE LEFT OF BORING INDICATES BLOWS OF 1 3/8" I.D., 2" O.D. SPLIT-SPOON FOR 12" PENETRATION (UNLESS OTHERWISE NOTED) WITH A 140 LB HAMMER DROPPED 30 INCHES.
 THE BORING LOGS SHOWN REPRESENT SUBSURFACE CONDITIONS WITHIN THE BOREHOLE AT THE TIME OF DRILLING. NO WARRANTY AS TO THE SUBSURFACE CONDITION, STRATA DEPTH OR SOIL CONSISTENCY BETWEEN OR OUTSIDE BORING LOCATIONS IS EXPRESSED OR IMPLIED BY THIS DRAWING.

Relative Density	GRANULAR MATERIALS-	
	Safety Hammer SPT N-Value (Blow/Foot)	Automatic Hammer SPT N-Value (Blow/Foot)
Very Loose	Less than 4	Less than 3
Loose	4 - 10	3 - 8
Medium Dense	10 - 30	8 - 24
Dense	30 - 50	24 - 40
Very Dense	Greater than 50	Greater than 40

Consistency	SILTS AND CLAYS-	
	Safety Hammer SPT N-Value (Blow/Foot)	Automatic Hammer SPT N-Value (Blow/Foot)
Very Soft	Less than 2	Less than 1
Soft	2 - 4	1 - 3
Firm	4 - 8	3 - 6
Stiff	8 - 15	6 - 12
Very Stiff	15 - 30	12 - 24
Hard	Greater than 30	Greater than 24

051879.301 B1BORING01

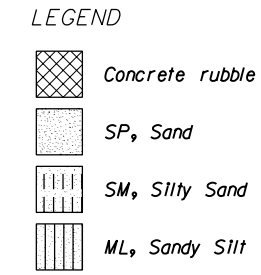
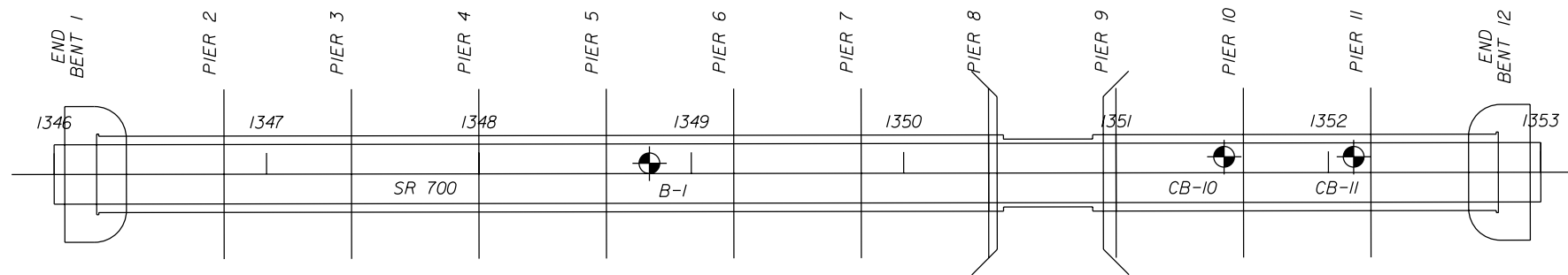
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GANNETT FLEMING, INC.
 10600 Endeavour Way
 Largo, Florida 33777 C.A. 5564
 Engineer of Record:
 KEITH D. BENNETT
 P.E. NO. 33075

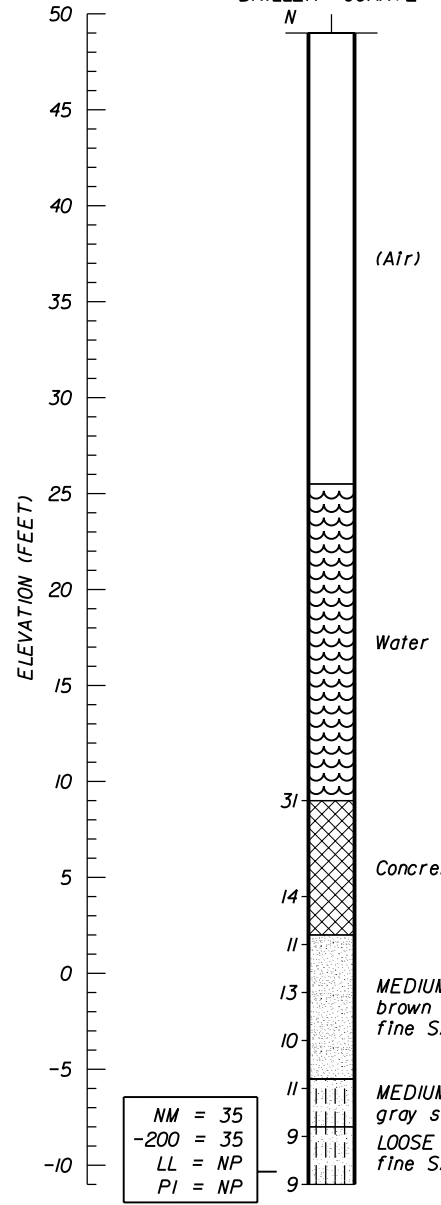
DRAWN BY: TEJ 06-10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
CHECKED BY: JS 06-10			
DESIGNED BY: JS 06-10	ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CHECKED BY: KDB 06-10	700	HIGHLANDS	413817-1-52-01

SHEET TITLE: REPORT OF CORE BORINGS - SHEET 1 OF 3		REF. DWG. NO.
PROJECT NAME: US 98 KISSIMMEE RIVER BRIDGE		SHEET NO. B1-4

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G5-23.003, F.A.C.

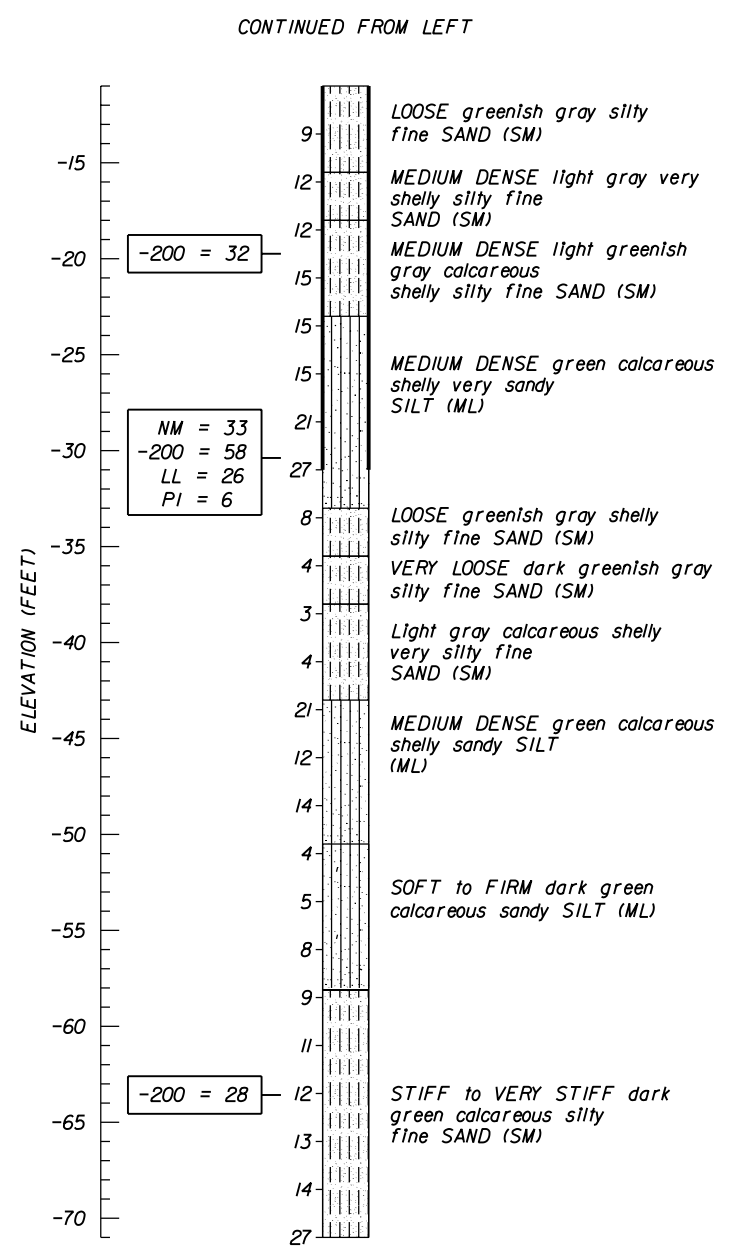


BOR # CB-10 *
 ELEV. +49.0 (EST @ BRIDGE DECK)
 DATE 11/3/1999
 DRILLER UGARTE



NM = 35
 -200 = 35
 LL = NP
 PI = NP

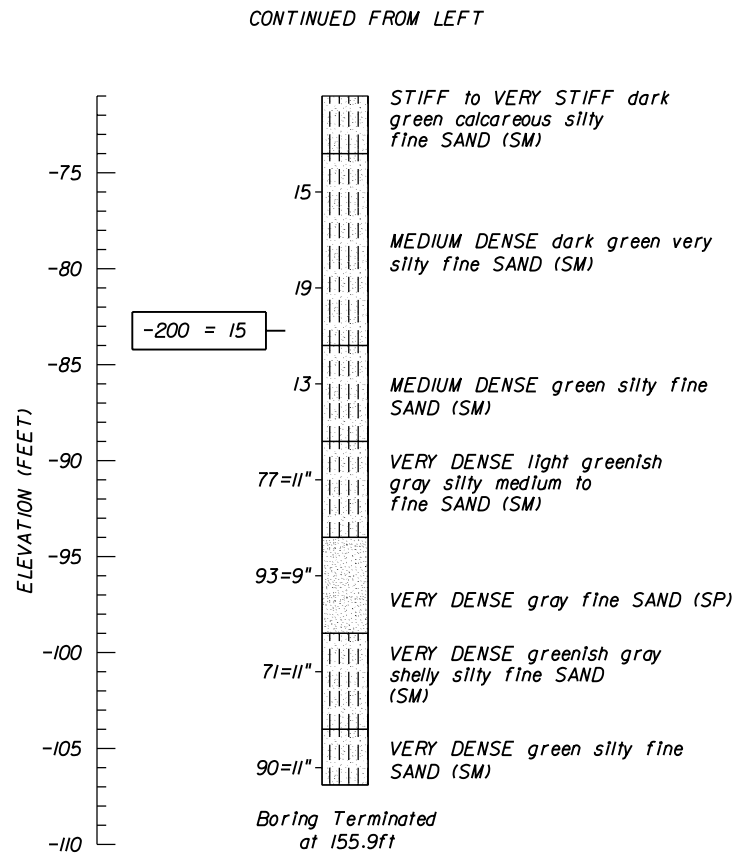
CONTINUED AT RIGHT



NM = 33
 -200 = 58
 LL = 26
 PI = 6

-200 = 28

CONTINUED AT RIGHT



-200 = 15

Boring Terminated at 155.9ft
 Casing Length 80 ft

= Casing used

NM = Natural Moisture Content
 -200 = % Passing #200 Sieve
 LL = Liquid Limit
 PI = Plasticity Index

GENERAL NOTES

DRILL AND PENETRATION TESTING WERE PERFORMED IN ACCORDANCE WITH ASTM D 1586. NUMBER TO THE LEFT OF BORING INDICATES BLOWS OF 1 3/8" I.D., 2" O.D. SPLIT-SPOON FOR 12" PENETRATION (UNLESS OTHERWISE NOTED) WITH A 140 LB HAMMER DROPPED 30 INCHES.

THE BORING LOGS SHOWN REPRESENT SUBSURFACE CONDITIONS WITHIN THE BOREHOLE AT THE TIME OF DRILLING. NO WARRANTY AS TO THE SUBSURFACE CONDITION, STRATA DEPTH OR SOIL CONSISTENCY BETWEEN OR OUTSIDE BORING LOCATIONS IS EXPRESSED OR IMPLIED BY THIS DRAWING.

* EXISTING BORING - NO GPS LOCATIONS AVAILABLE.

Relative Density	GRANULAR MATERIALS-	
	Safety Hammer SPT N-Value (Blow/Foot)	Automatic Hammer SPT N-Value (Blow/Foot)
Very Loose	Less than 4	Less than 3
Loose	4 - 10	3 - 8
Medium Dense	10 - 30	8 - 24
Dense	30 - 50	24 - 40
Very Dense	Greater than 50	Greater than 40

Consistency	SILTS AND CLAYS-	
	Safety Hammer SPT N-Value (Blow/Foot)	Automatic Hammer SPT N-Value (Blow/Foot)
Very Soft	Less than 2	Less than 1
Soft	2 - 4	1 - 3
Firm	4 - 8	3 - 6
Stiff	8 - 15	6 - 12
Very Stiff	15 - 30	12 - 24
Hard	Greater than 30	Greater than 24

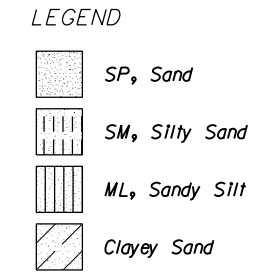
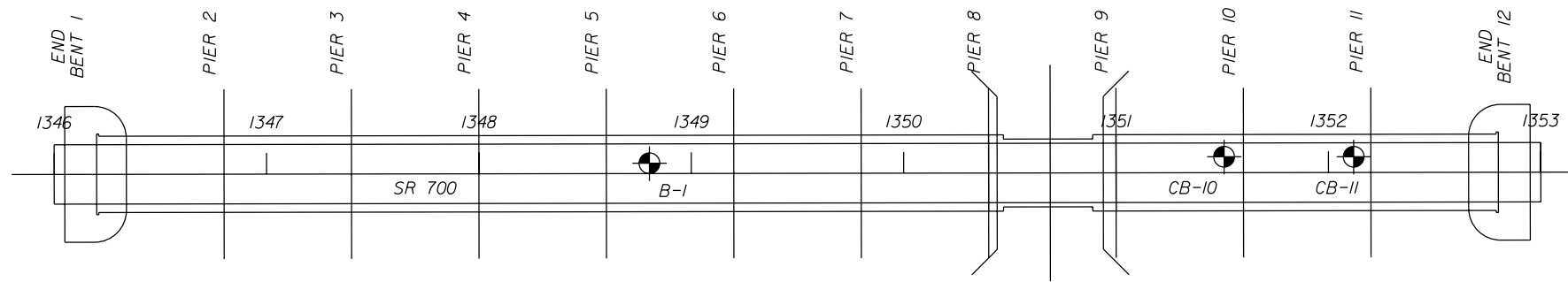
051879.301 B1BORING02

REVISIONS						GANNETT FLEMING, INC. 10600 Endeavour Way Largo, Florida 33777 C.A. 5564 Engineer of Record: KEITH D. BENNETT P.E. NO. 33075	DRAWN BY: TEJ 06-10 CHECKED BY: JS 06-10 DESIGNED BY: JS 06-10 CHECKED BY: KDB 06-10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPORT OF CORE BORINGS - SHEET 2 OF 3	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							700	HIGHLANDS	413817-1-52-01	US 98 KISSIMMEE RIVER BRIDGE		

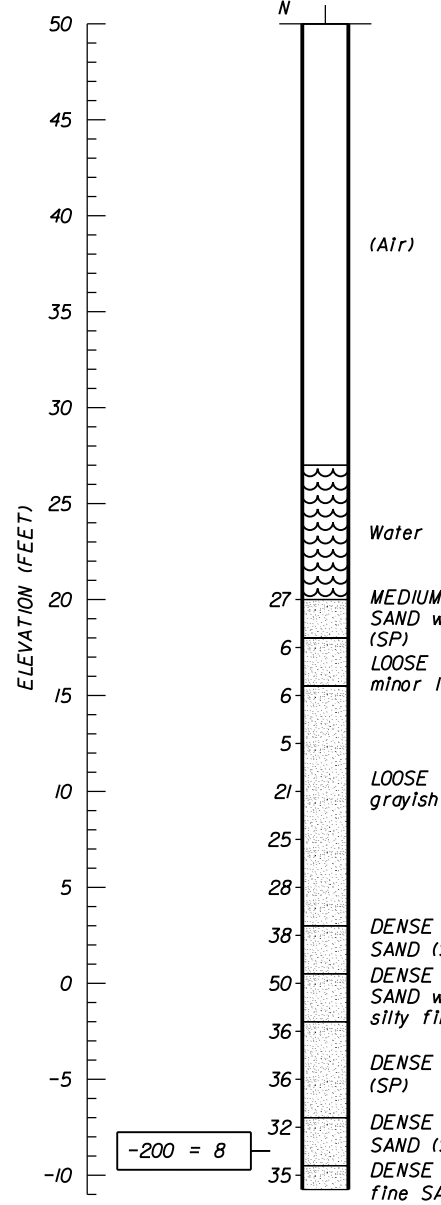
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BRIDGE NO. 090016

SHEET NO.
B1-5

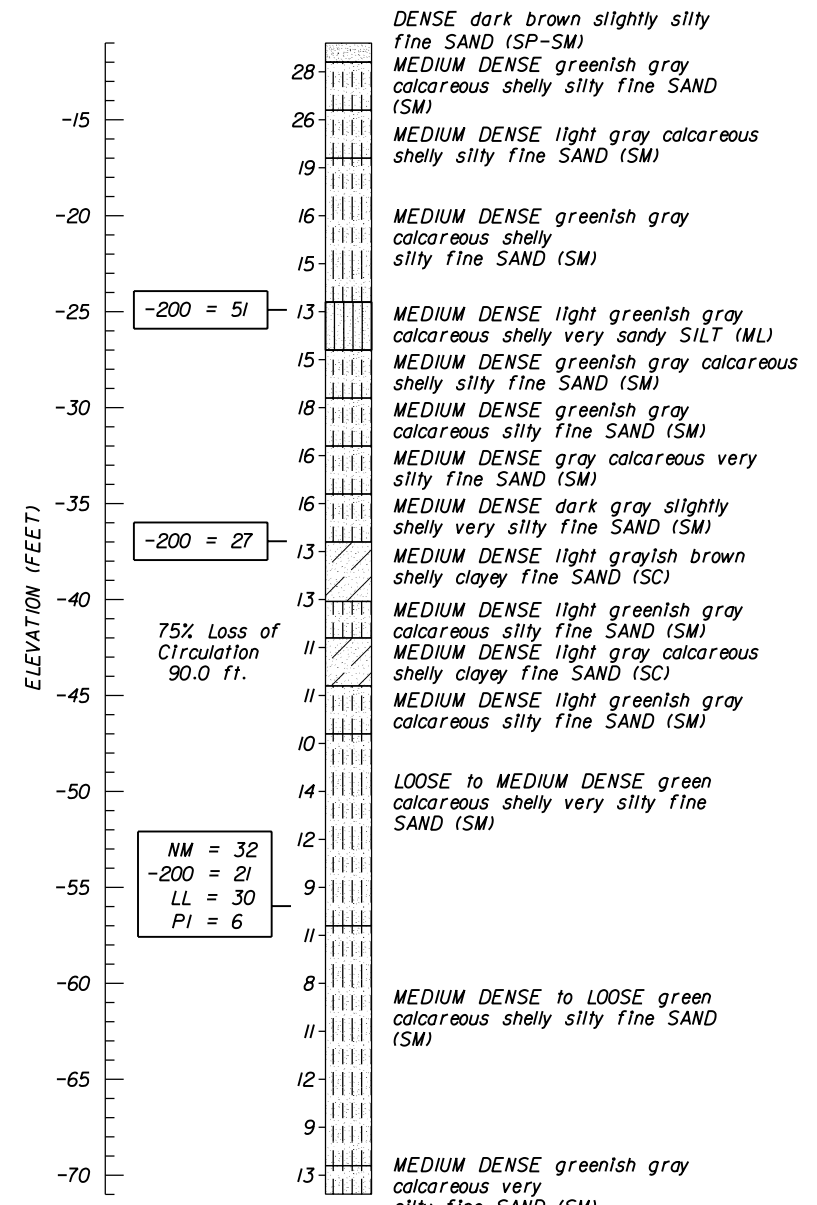


BOR # CB-11 *
 ELEV. +49.0' (EST @ BRIDGE DECK)
 DATE 10/28/1999
 DRILLER UGARTE



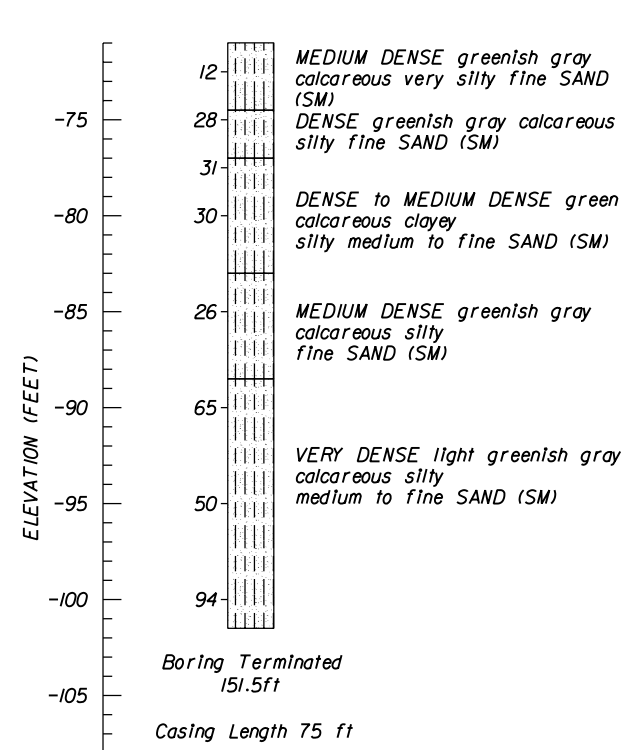
CONTINUED AT RIGHT

CONTINUED FROM LEFT



CONTINUED AT RIGHT

CONTINUED FROM LEFT



□ = Casing used
 NM = Natural Moisture Content
 -200 = % Passing #200 Sieve
 LL = Liquid Limit
 PI = Plasticity Index

GENERAL NOTES

DRILL AND PENETRATION TESTING WERE PERFORMED IN ACCORDANCE WITH ASTM D 1586. NUMBER TO THE LEFT OF BORING INDICATES BLOWS OF 1 3/8" I.D., 2" O.D. SPLIT-SPOON FOR 12" PENETRATION (UNLESS OTHERWISE NOTED) WITH A 140 LB HAMMER DROPPED 30 INCHES.
 THE BORING LOGS SHOWN REPRESENT SUBSURFACE CONDITIONS WITHIN THE BOREHOLE AT THE TIME OF DRILLING. NO WARRANTY AS TO THE SUBSURFACE CONDITION, STRATA DEPTH OR SOIL CONSISTENCY BETWEEN OR OUTSIDE BORING LOCATIONS IS EXPRESSED OR IMPLIED BY THIS DRAWING.
 * EXISTING BORING - NO GPS LOCATIONS AVAILABLE.

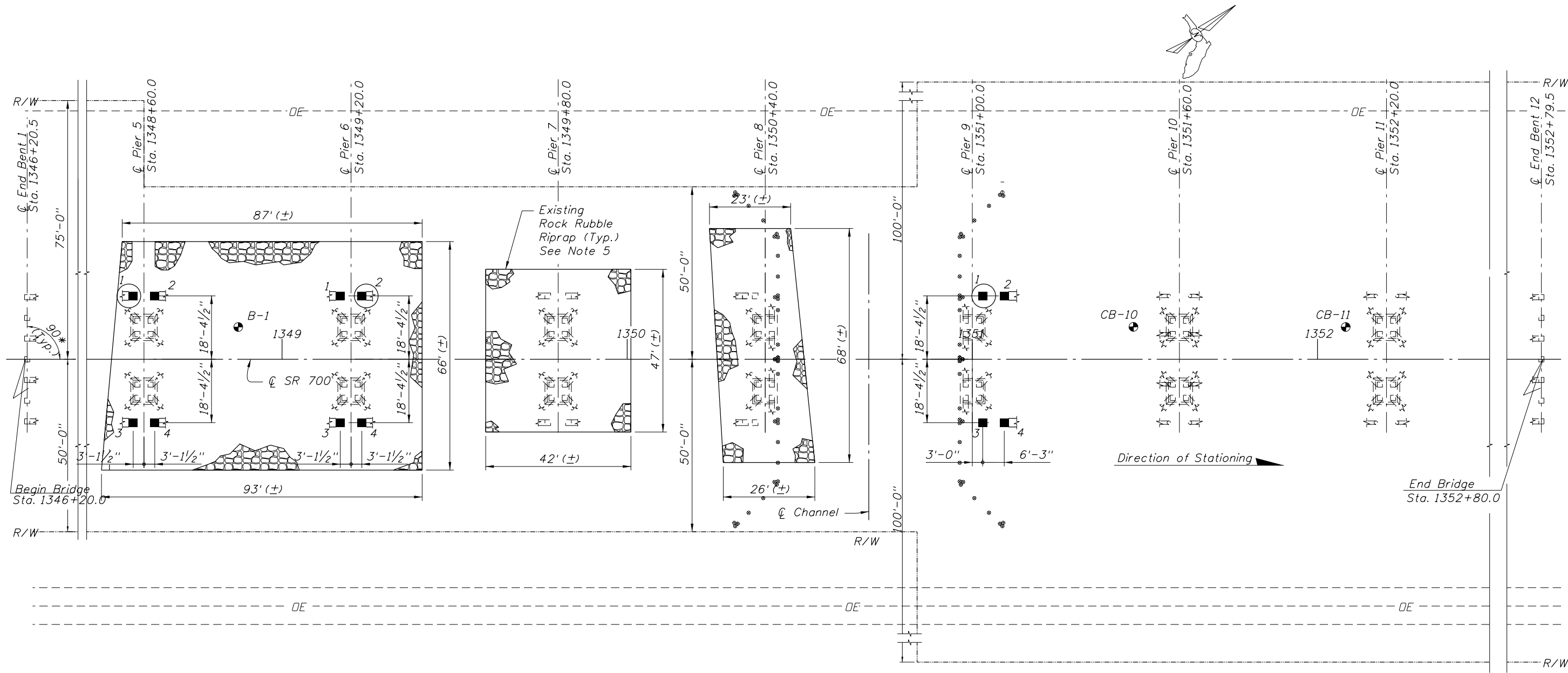
Relative Density	GRANULAR MATERIALS-	
	Safety Hammer SPT N-Value (Blow/Foot)	Automatic Hammer SPT N-Value (Blow/Foot)
Very Loose	Less than 4	Less than 3
Loose	4 - 10	3 - 8
Medium Dense	10 - 30	8 - 24
Dense	30 - 50	24 - 40
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Consistency	SILTS AND CLAYS-	
	Safety Hammer SPT N-Value (Blow/Foot)	Automatic Hammer SPT N-Value (Blow/Foot)
Very Soft	Less than 2	Less than 1
Soft	2 - 4	1 - 3
Firm	4 - 8	3 - 6
Stiff	8 - 15	6 - 12
Very Stiff	15 - 30	12 - 24
Hard	Greater than 30	Greater than 24

051879.301 B1BORING03

REVISIONS						GANNETT FLEMING, INC. 10600 Endeavour Way Largo, Florida 33777 C.A. 5564 Engineer of Record: KEITH D. BENNETT P.E. NO. 33075	DRAWN BY: TEJ 06-10 CHECKED BY: JS 06-10 DESIGNED BY: JS 06-10 CHECKED BY: KDB 06-10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPORT OF CORE BORINGS - SHEET 3 OF 3	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							700	HIGHLANDS	413817-1-52-01	US 98 KISSIMMEE RIVER BRIDGE	B1-6	

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PLAN

LEGEND:

- ⊕ Indicates Soil Boring Approx. Locations (see Sheets B1-4 thru B1-6 for Borings)
- Denotes Plumb Pile (30" Sq. Prestr. Conc.)
- ▣ Denotes Battered Pile (30" Sq. Prestr. Conc.)
- Denotes Existing Plumb Pile (Concrete)
- ▤ Denotes Existing Battered Pile (Concrete)
- Denotes Existing Fender Pile (Timber)
- Denotes Test Pile Location

NOTES:

1. For Pile Data Table, and Pile Installation Notes see Sheet No. B1-8.
2. For Crutch Bent Details, see Sheet Nos. B1-9, B1-10 & B1-11.
3. For 30" Prestressed Concrete Pile Details, see Standard Index Nos. 20600, 20601, & 20630.
4. For Existing Pile Spacing, see Existing Plans.
5. The contractor is advised of the presence of scour countermeasures around the piers. This consists of previously placed rock rubble riprap. Remove and replace any scour countermeasures as necessary to construct the crutch bents. Other drift debris may be located on the channel bottom, within the construction limits. Remove and dispose of this debris.

REVISIONS						TIMOTHY J. FARRELL, P.E. P.E. License No: 37264 E. C. DRIVER & ASSOCIATES, INC. 500 N. Westshore Blvd. Suite 500 Tampa, Florida 33609 Certificate of Authorization No. 3838	DRAWN BY: JPN 02-10 CHECKED BY: KSS 09-10 DESIGNED BY: JPN 08-10 CHECKED BY: KSS 09-10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	SHEET NO.
						700	HIGHLANDS	413817-1-52-01	BRIDGE NO. 090016 FOUNDATION LAYOUT			
									BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001	BI-7		

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PILE DATA TABLE														
INSTALLATION CRITERIA								DESIGN CRITERIA						
PIER or BENT NUMBER	PILE SIZE (in.)	NOMINAL BEARING RESISTANCE (tons)	TENSION RESISTANCE (tons)	MINIMUM TIP ELEVATION (ft.)	TEST PILE LENGTH (ft.)	REQUIRED JET ELEVATION (ft.)	REQUIRED PREFORM ELEVATION (ft.)	FACTORED DESIGN LOAD (tons)	DOWN DRAG (tons)	TOTAL SCOUR RESISTANCE (tons)	NET SCOUR RESISTANCE (tons)	100-YEAR SCOUR ELEVATION (ft.)	LONG TERM SCOUR ELEVATION (ft.)	RESISTANCE FACTOR- ϕ
5	30	312	N/A	-40	142	N/A	N/A	118	N/A	85	85	-6	5	0.65
6	30	312	N/A	-40	142	N/A	N/A	118	N/A	85	85	-6	5	0.65
9	30	300	N/A	-65	142	N/A	N/A	110	N/A	85	85	-6	5	0.65

$$\frac{\text{Factored Design Load} + \text{Net Scour Resistance} + \text{Down Drag}}{\phi} * \text{Nominal Bearing Resistance}$$

TENSION RESISTANCE - The ultimate side friction capacity that must be obtained below the 100 year scour elevation to resist pullout of the pile (Specify only when design requires tension capacity).

TOTAL SCOUR RESISTANCE - An estimate of the ultimate static side friction resistance provided by the scourable soil.

NET SCOUR RESISTANCE - An estimate of the ultimate static side friction resistance provided by the soil from the required preformed or jetting elevation to the scour elevation.

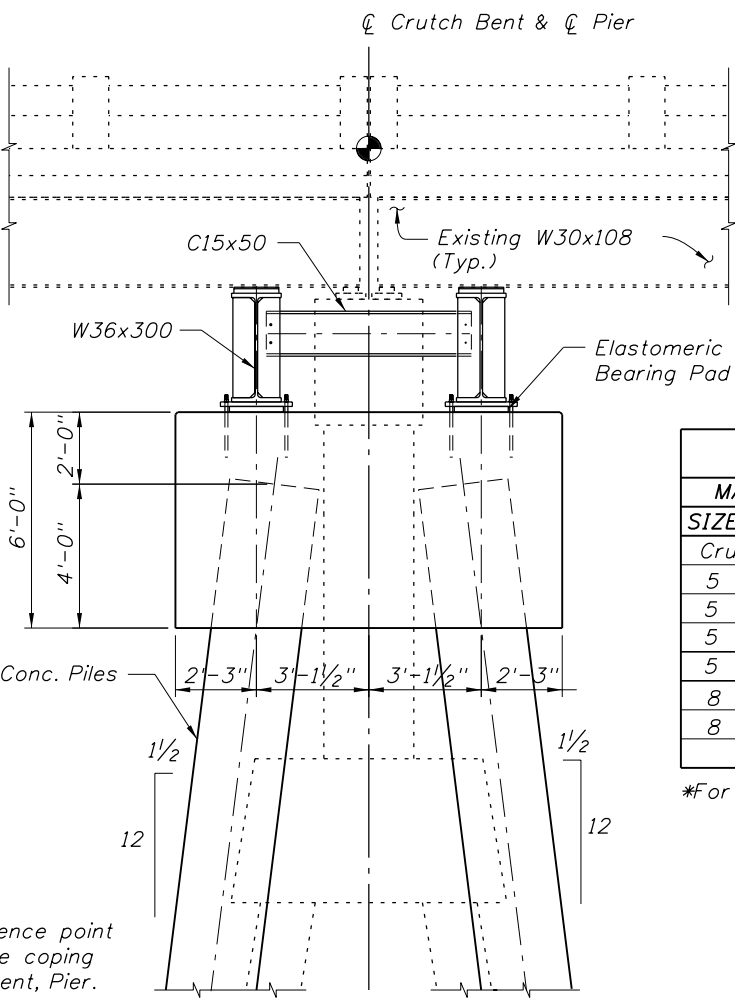
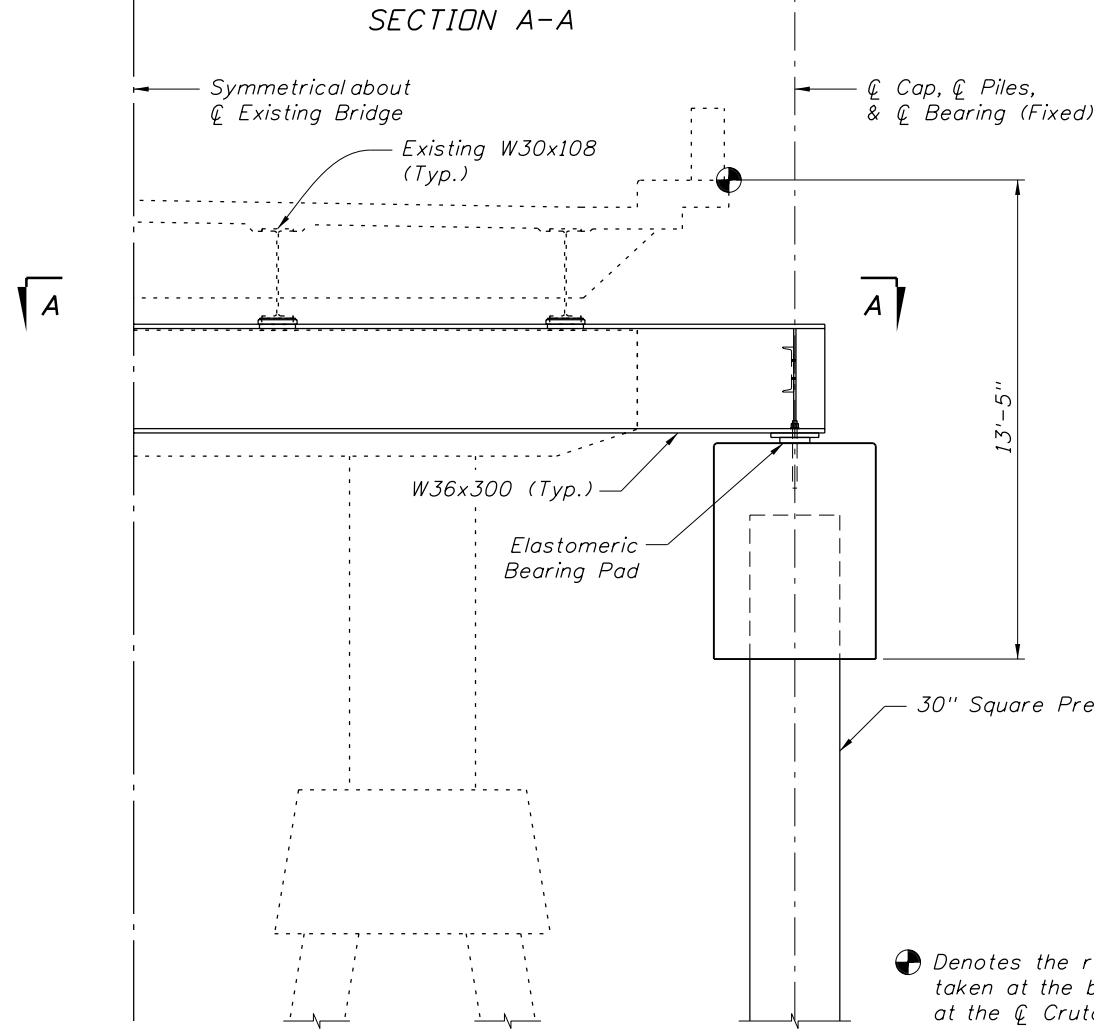
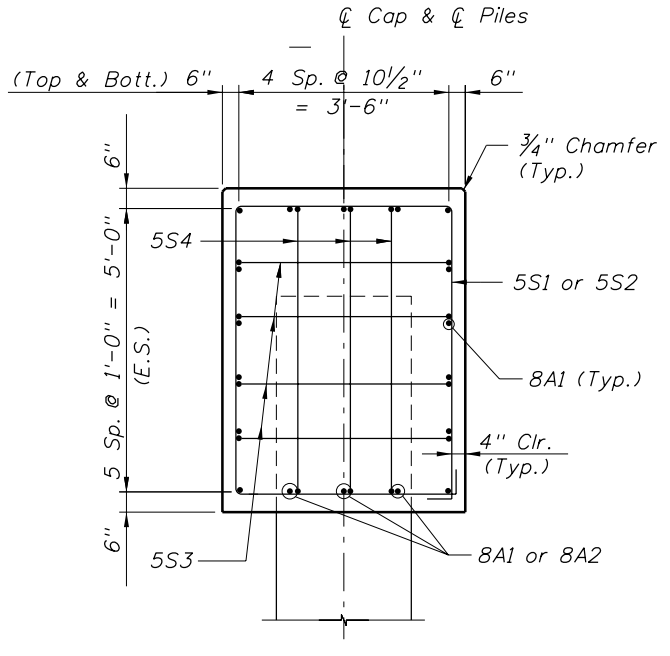
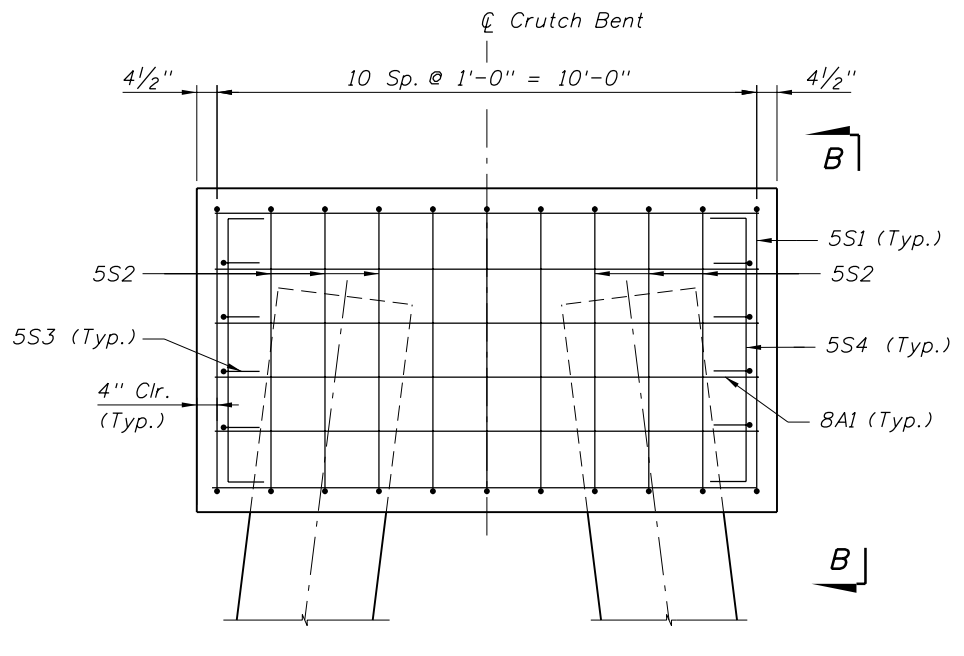
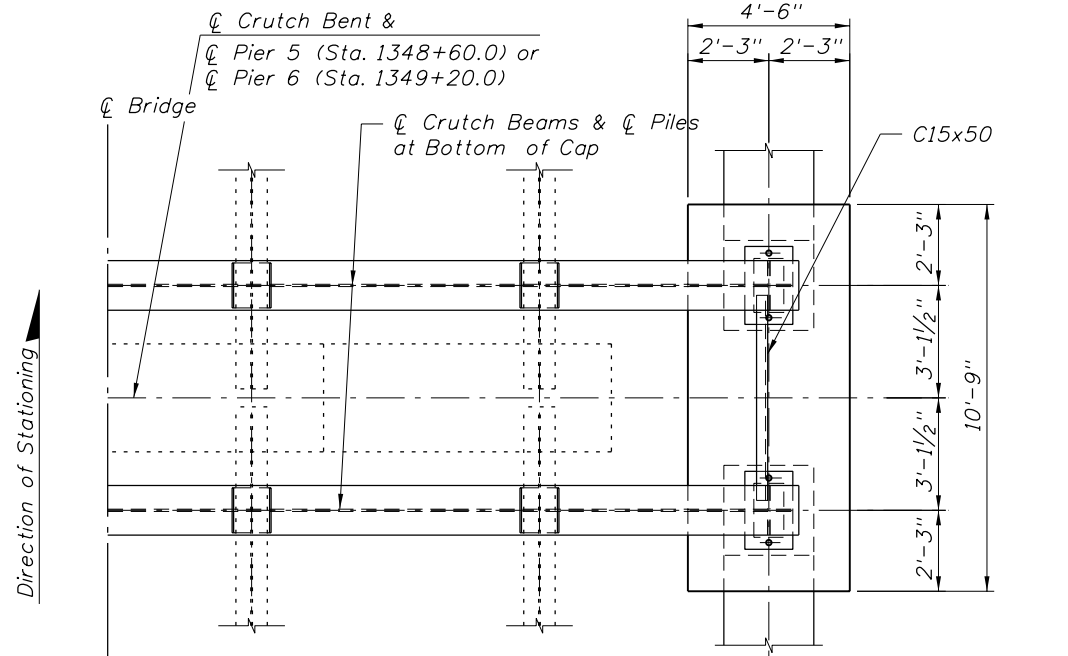
100-YEAR SCOUR ELEVATION - Estimated elevation of scour due to the 100 year storm event.

LONG TERM SCOUR ELEVATION - Estimated elevation of scour used in design for extreme event loading.

PILE INSTALLATION NOTES:

- Contractor shall verify location of all utilities prior to any pile driving.
- Minimum Tip Elevation is required for lateral stability.
- No jetting or preforming will be allowed without the approval of the Engineer.
- Pile spacings are measured horizontally along the bottom of the crutch bent cap.
- Test piles shall be driven in the position of a permanent pile as shown in the plans.
- All test piles shall be dynamically monitored using the Pile Driving Analyzer (PDA or equivalent).
- Pile cut-offs will be determined from the relative location of the bottom of the crutch bent cap to the top of coping at ϕ of the existing bent.

REVISIONS						TIMOTHY J. FARRELL, P.E. P.E. License No: 37264 E. C. DRIVER & ASSOCIATES, INC. 500 N. Westshore Blvd. Suite 500 Tampa, Florida 33609 Certificate of Authorization No. 3838	DRAWN BY: JPN 02-10 CHECKED BY: KSS 09-10 DESIGNED BY: JPN 08-10 CHECKED BY: KSS 09-10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		SHEET NO.
									700	HIGHLANDS	413817-1-52-01	BRIDGE NO. 090016 PILE DATA TABLE BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001	



ESTIMATED QUANTITIES ▲		
ITEM	UNIT	QUANTITY
Class II Concrete (Substructure)	CY	35.6
Reinforcing Steel (Substructure)	LB	2,864
Structural Steel	LB	51,774

▲ Quantities shown are for Piers 5 & 6.

REINFORCING BAR LIST*																			
MARK	LENGTH	NO	TYP	STY	B			C			D			E					
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR
Crutch Bent Reinf. for Piers 5 & 6 (No. Required = 4)																			
5	S1	19-0	5	4	4			5-3			3-9								
5	S2	15-3	6	5				5-3			3-9			0-6					0-6
5	S3	5-6	8	11				3-6			1-0			1-0					
5	S4	7-0	6	11				5-0			1-0			1-0					
8	A1	10-1	15	1				10-1											
8	A2	3-6	3	1				3-6											
End of List																			

*For Standard Bar Bending Details, see Index No. 21300.

- NOTES:
 1. For Crutch Beam Details, see Sheet No. B1-11.
 2. For Bearing Pad Data Table, see Sheet No. B1-10.

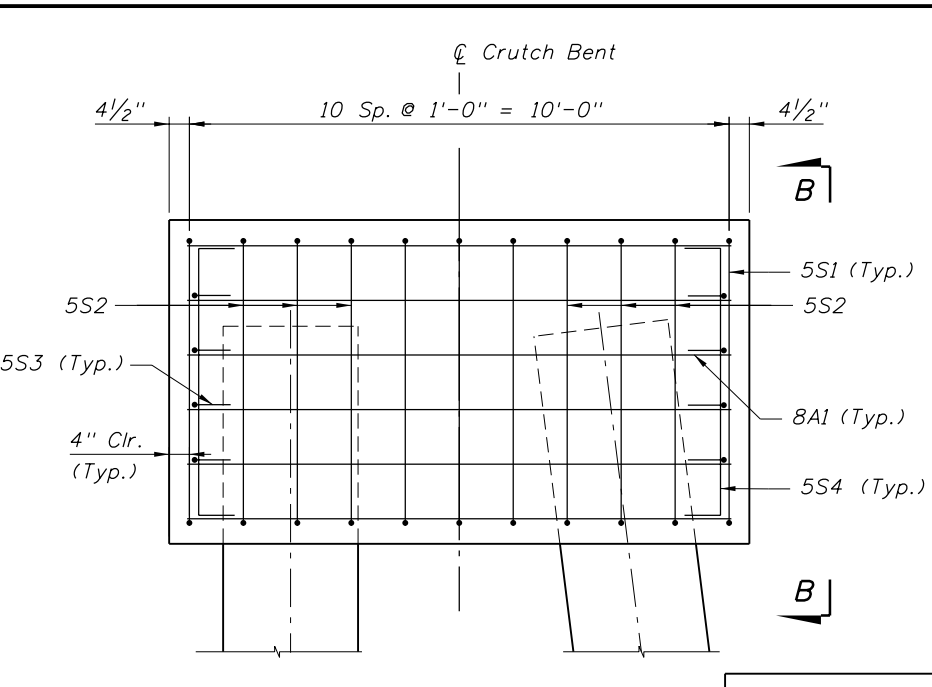
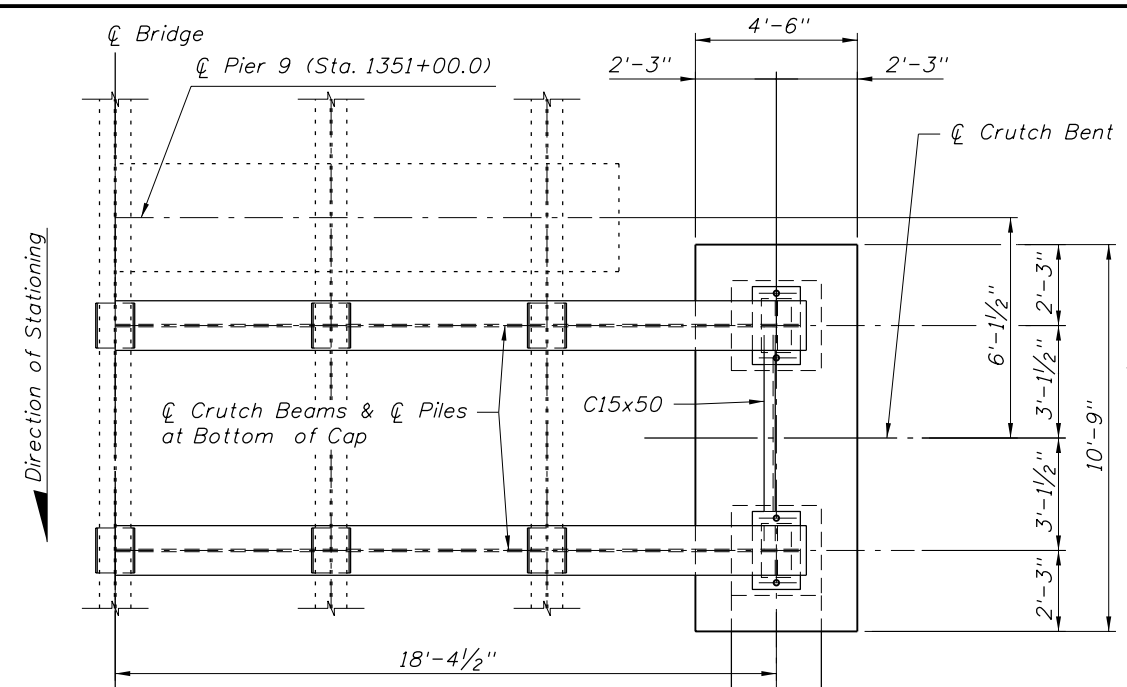
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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DRAWN BY: JPN 03-10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	SHEET TITLE:
CHECKED BY: KSS 09-10		BRIDGE NO. 090016 CRUTCH BENT DETAILS PIERS 5 AND 6
DESIGNED BY: JPN 03-10		ROAD NO. COUNTY FINANCIAL PROJECT ID
CHECKED BY: KSS 09-10		700 HIGHLANDS 413817-1-52-01

PROJECT NAME:	BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001	REF. DWG. NO.
		SHEET NO. B1-9

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ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
Class II Concrete (Substructure)	CY	17.8
Reinforcing Steel (Substructure)	LB	1,432
Structural Steel	LB	26,062

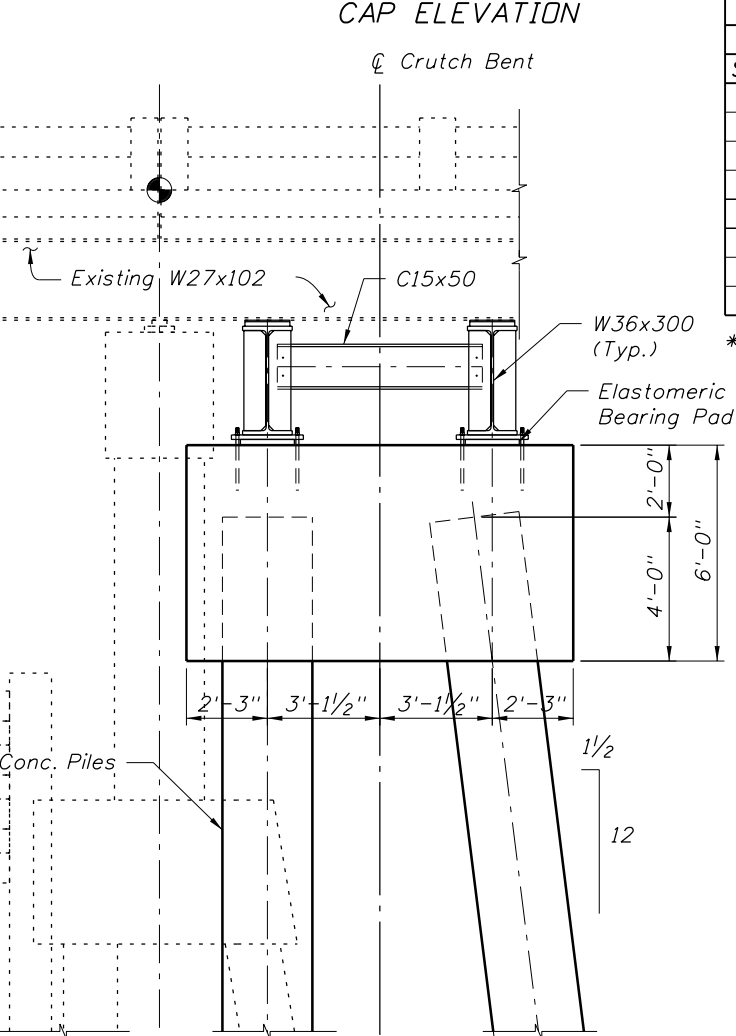
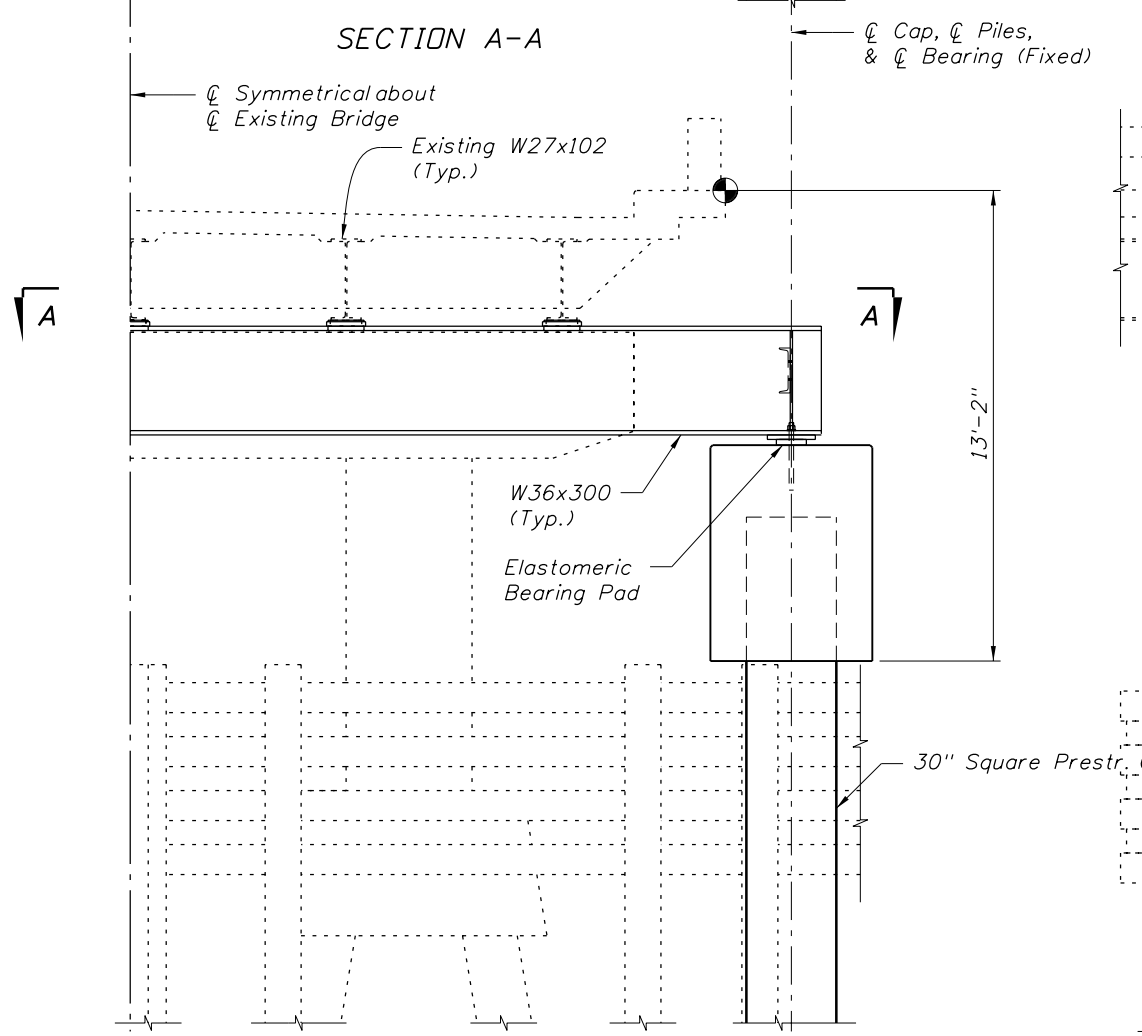
REINFORCING BAR LIST*																			
MARK	LENGTH	NO	TYP	STY	B	C	D	E											
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR
Crutch Bent Reinf. for Pier 9 (No. Required = 2)																			
5	S1	19-0	3	5	4	4	4	5-3	3-9										
5	S2	15-3	6	5				5-3	3-9		0-6								0-6
5	S3	5-6	8	11				3-6	1-0		1-0								
5	S4	7-0	6	11				5-0	1-0		1-0								
8	A1	10-1	15	1				10-1											
8	A2	3-6	3	1				3-6											
End of List																			

*For Standard Bar Bending Details, see Index No. 21300.

BEARING PAD DATA TABLE ▲			
PIER NO(s).	CRUTCH BEAM NO(s).	PAD TYPE	BEAM TYPE
5; 6	1-2	A	III (AASHTO)
9	1-2	A	III (AASHTO)
.	.	.	.

▲ Work this table with Index No. 20500 for Pad Types A, B & C and/or any project specific bearing pads.

- NOTES:
- For Crutch Beam Details, see Sheet No. B1-11.
 - For View B-B, see Sheet No. B1-9.



● Denotes the reference point taken at the bridge coping at the Crutch Bent, Pier.

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STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION

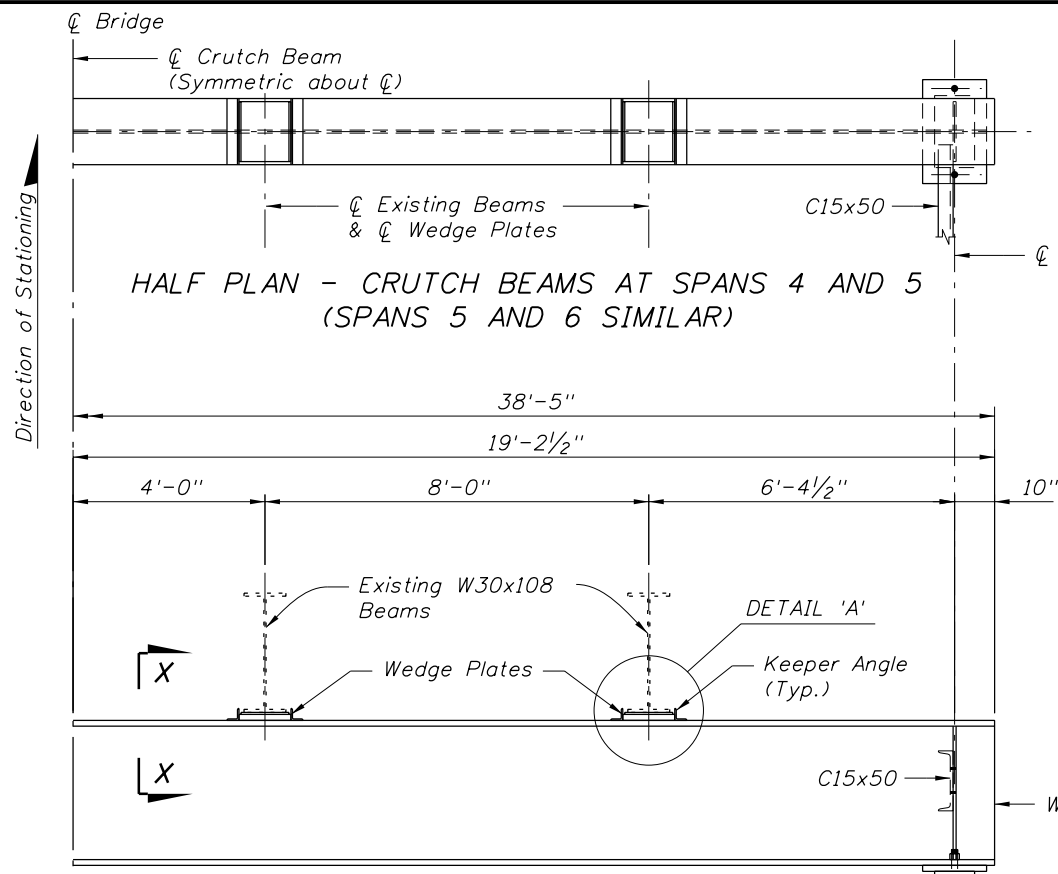
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
700	HIGHLANDS	413817-1-52-01

BRIDGE NO. 090016
 CRUTCH BENT DETAILS PIER 9

BRIDGE REPAIRS AND PAINTING
 NOS. 090016, 170098 AND 910001

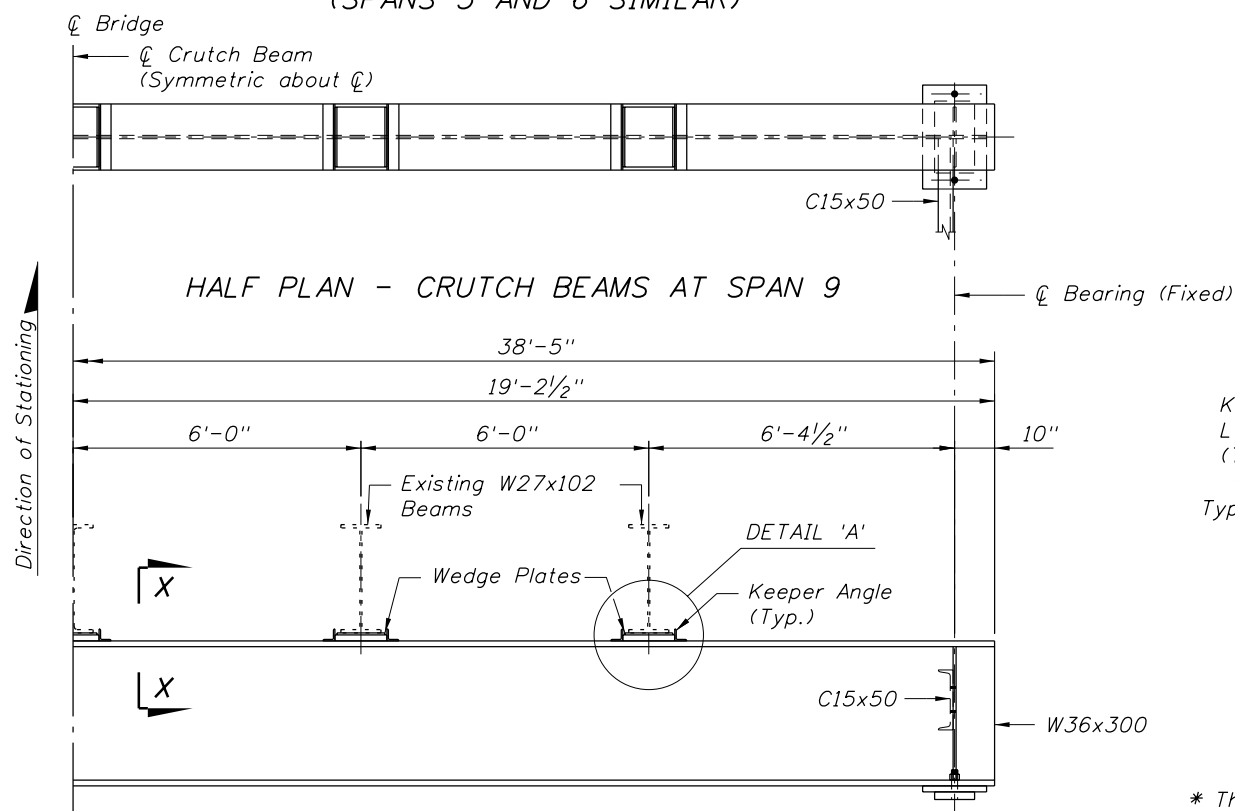
SHEET NO. B1-10

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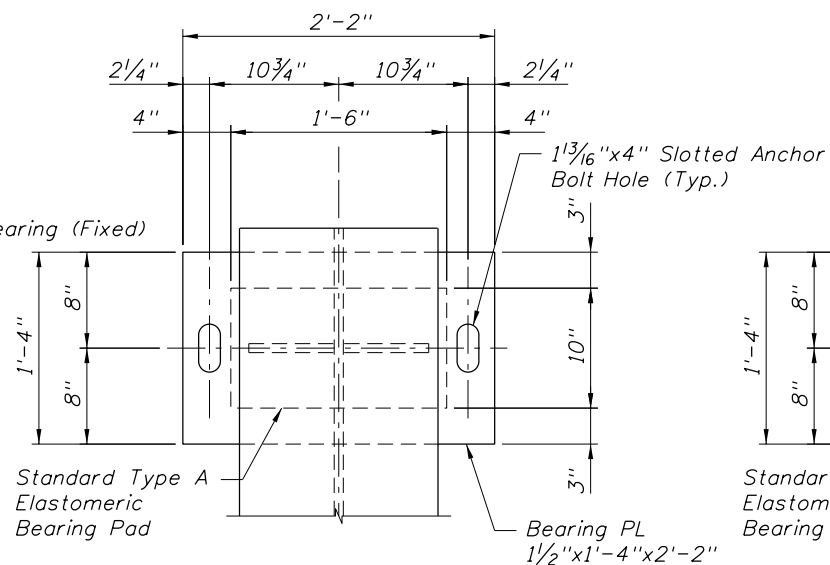
HALF PLAN - CRUTCH BEAMS AT SPANS 4 AND 5
(SPANS 5 AND 6 SIMILAR)

HALF ELEVATION - CRUTCH BEAMS AT SPANS 4 AND 5
(SPANS 5 AND 6 SIMILAR)

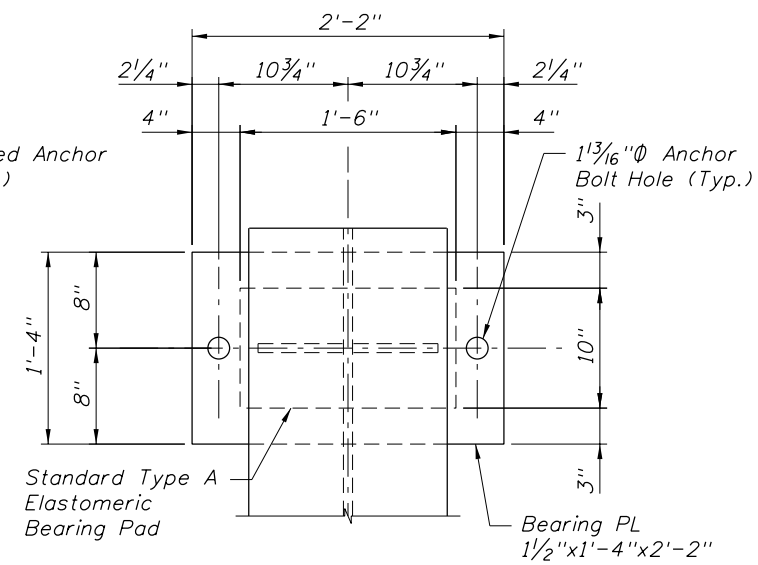


HALF PLAN - CRUTCH BEAMS AT SPAN 9

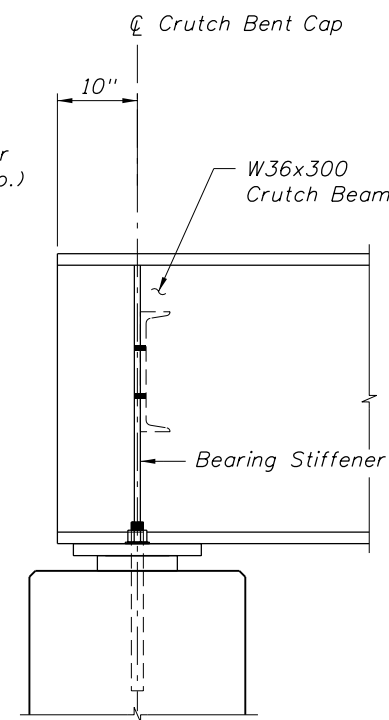
HALF ELEVATION - CRUTCH BEAMS AT SPAN 9



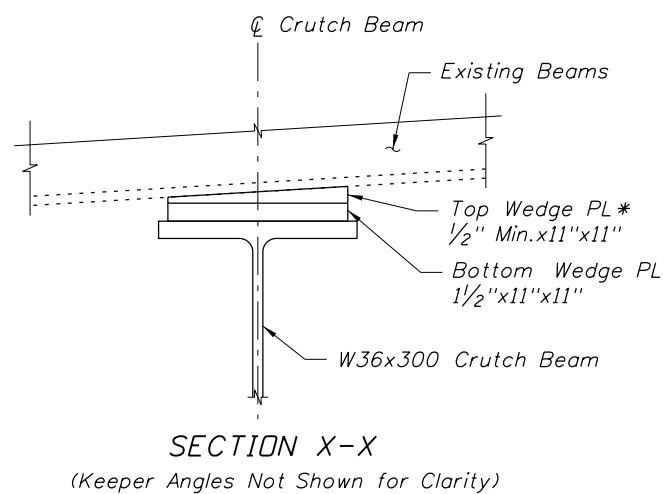
PLAN OF EXPANSION BEARING
(C15x50 & Bolts Not Shown for Clarity)



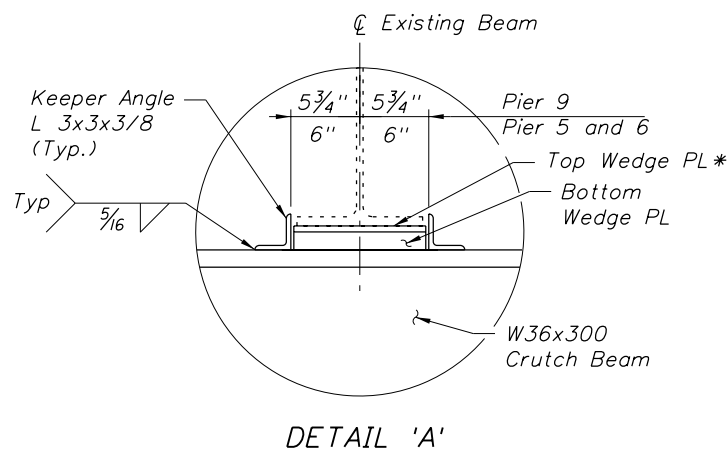
PLAN OF FIXED BEARING
(C15x50 & Bolts Not Shown for Clarity)



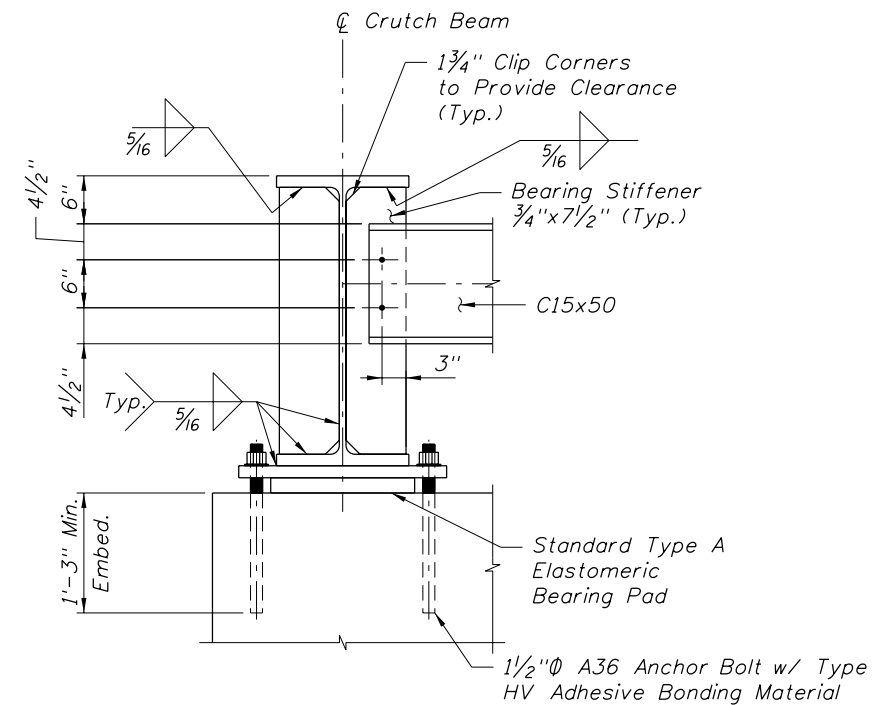
ELEVATION OF BEARING FOR ALL CRUTCH BEAMS



SECTION X-X
(Keeper Angles Not Shown for Clarity)



DETAIL 'A'



END VIEW OF BEARING FOR ALL CRUTCH BEAMS

NOTES:

1. For concrete, structural steel, and reinf. steel quantities, see Sheet Nos. B1-9 & B1-10.
2. For Bearing Pad Data Table and quantities, see Sheet No. B1-10.

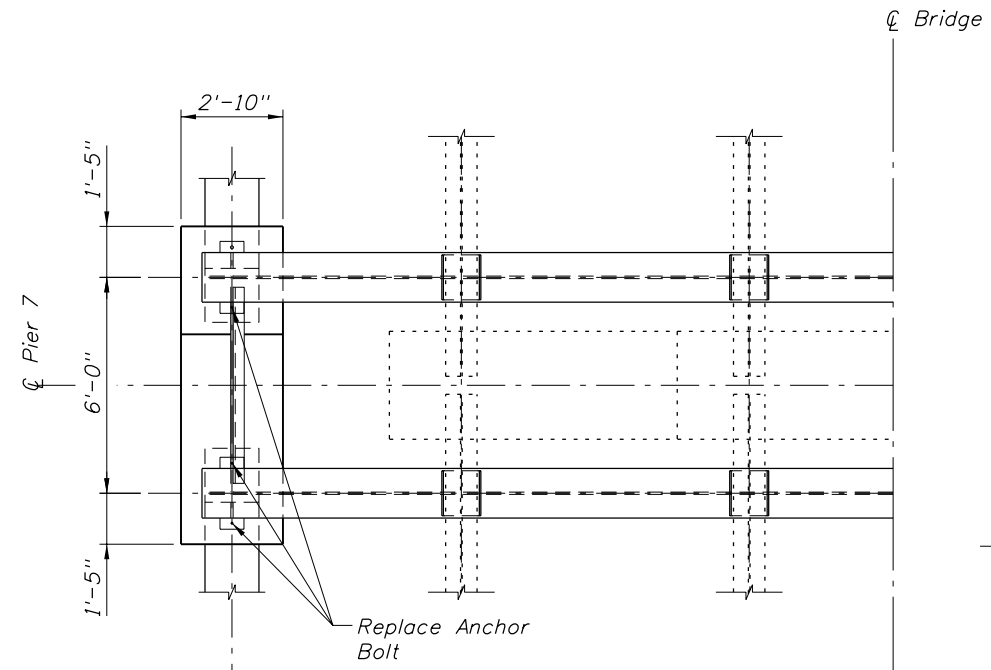
* The Contractor shall determine the thickness of the top wedge plate required to produce full bearing of the existing beams onto the proposed crutch beams.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

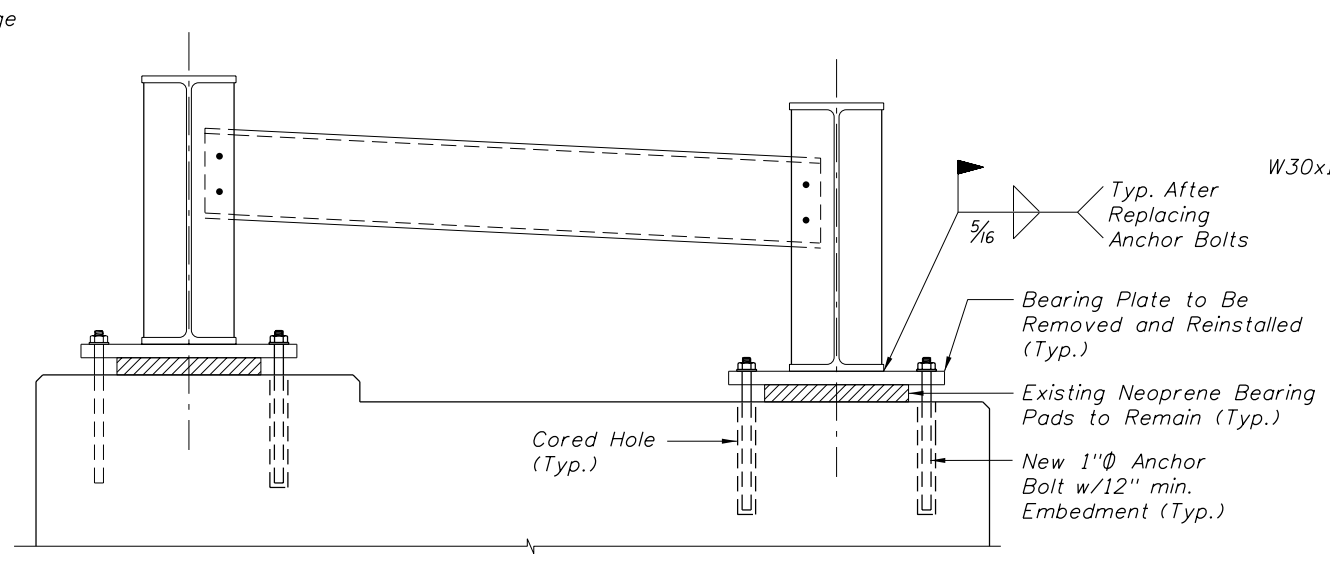
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DRAWN BY: JPN 04-10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		SHEET TITLE: BRIDGE NO. 090016 CRUTCH BEAM DETAILS PIERS 5, 6 AND 9	REF. DWG. NO.
CHECKED BY: KSS 09-10				
DESIGNED BY: JPN 03-10	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:
CHECKED BY: KSS 09-10	700	HIGHLANDS	413817-1-52-01	BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001

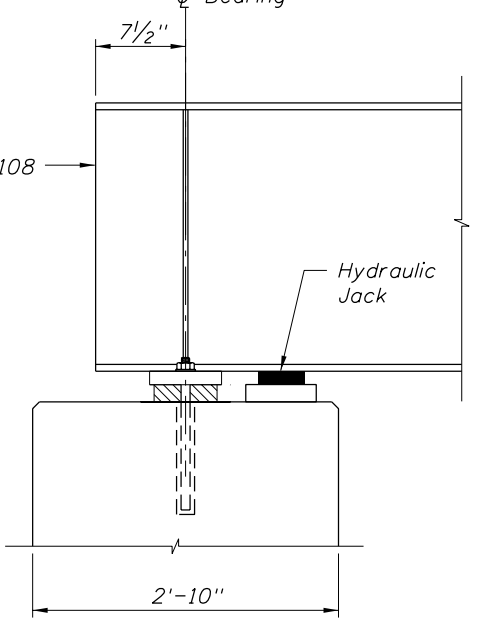
Direction of Stationing



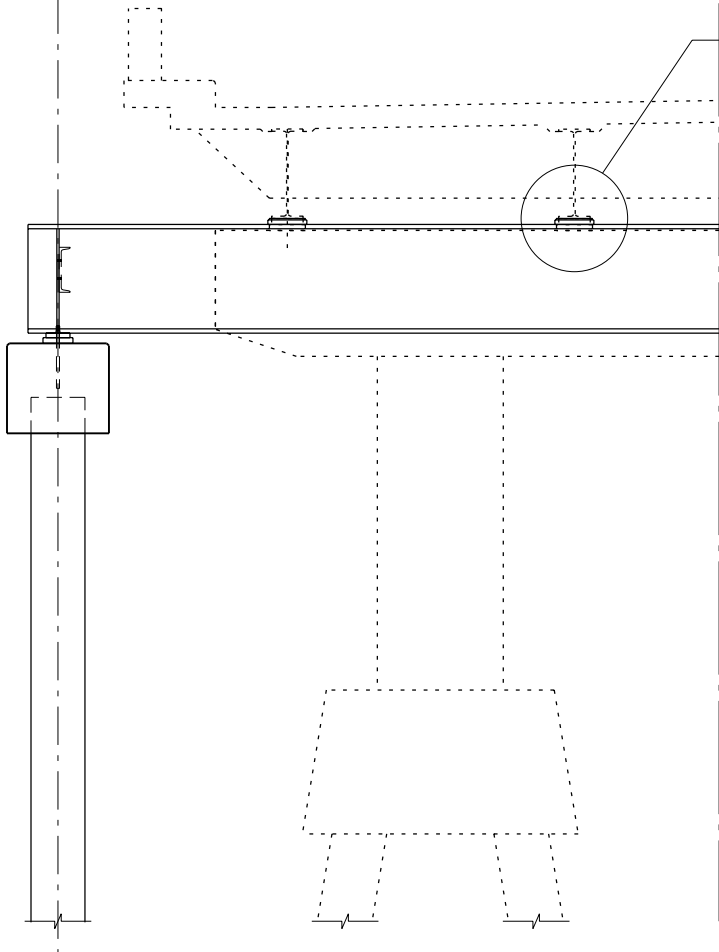
HALF PLAN



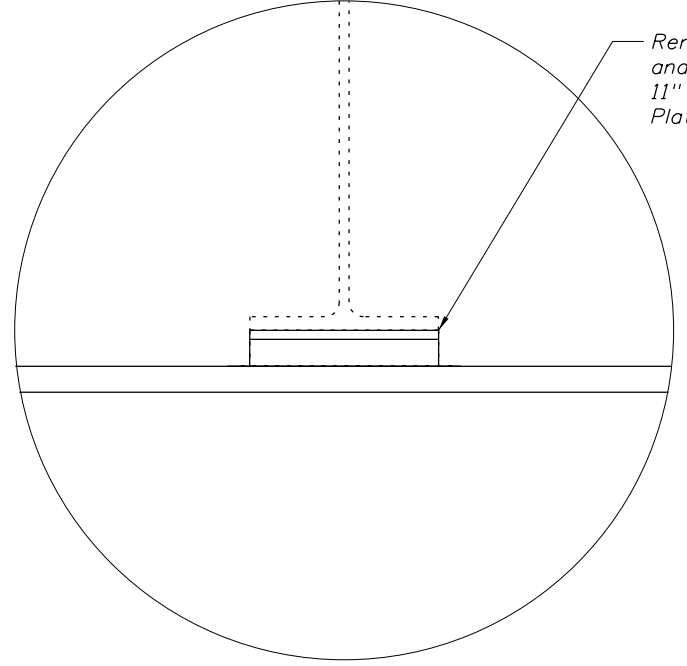
SIDE VIEW



ELEVATION



HALF ELEVATION



DETAIL 'A'

MAXIMUM SERVICE LOAD PER JACK (TONS)		
DEAD LOAD	LIVE LOAD + IMPACT	TOTAL
35	40	75

ANCHOR BOLT REPLACEMENT NOTES:

1. Replace the anchor bolts identified on this sheet.
2. Jack the north end of the crutch beams just enough to relieve the load on the bearings. Perform the jacking operation such that both of the crutch beams are lifted simultaneously.
3. Remove the existing bearing plates. Take care not to damage the bearing plates or crutch beams. Install shims underneath the crutch beams to provide bearing while the plates are removed.
4. Core drill and remove the existing anchor bolts.
5. Remove the temporary shims and reinstall the existing bearing plates. Field welding shall be of the size and details shown using E70XX weld electrodes.
6. Install the new anchor bolts. Anchor bolts shall be ASTM A36. The anchor bolt assembly shall be galvanized in accordance with ASTM A123. Use a type HV adhesive bonding material in accordance with the Standard Specifications.
7. Shim the bearing pads to provide full contact between the bearing plates and concrete cap.
8. Remove the jacks.
9. Remove the existing shims where the crutch beams support the bridge superstructure and install new shims.

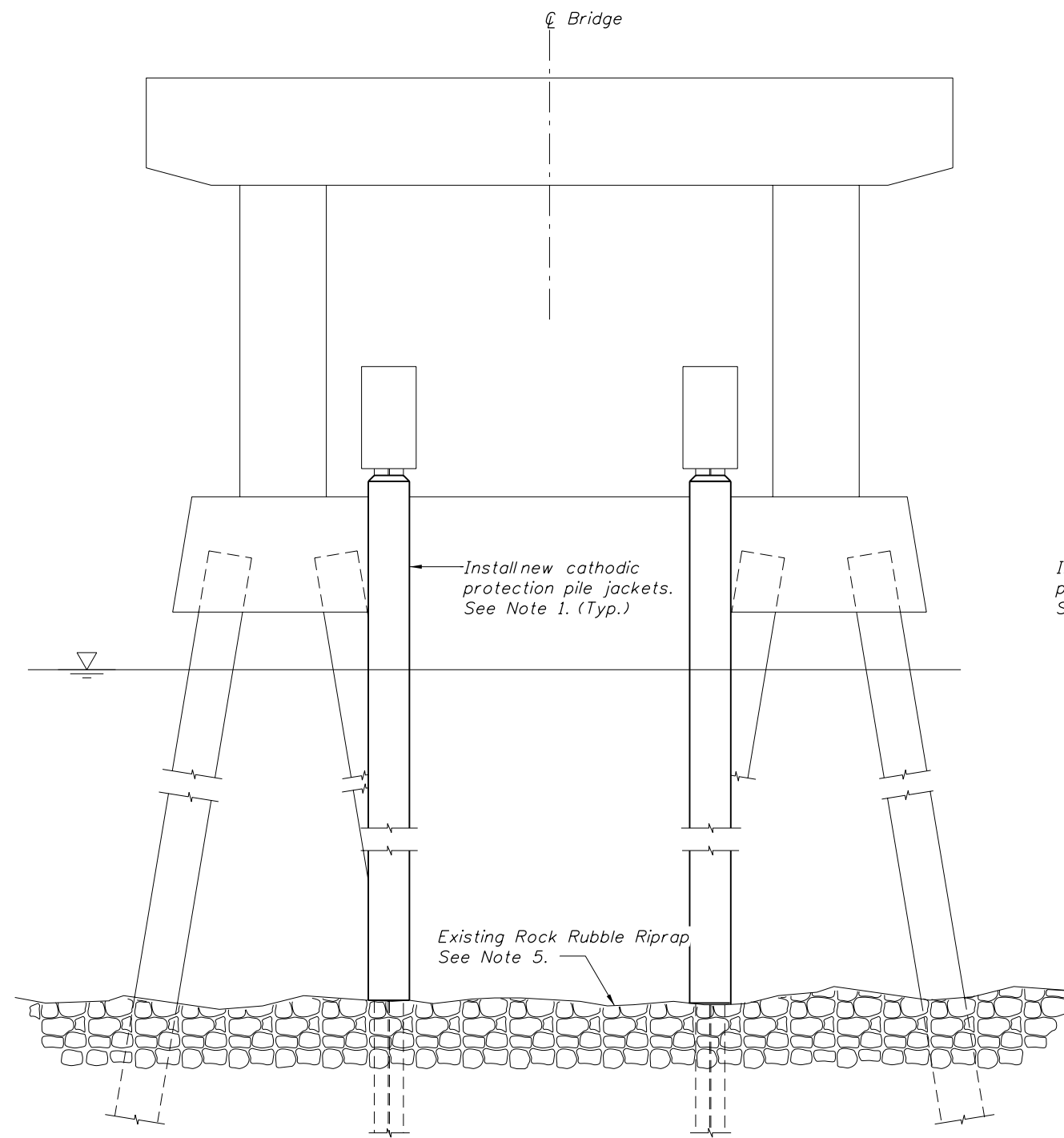
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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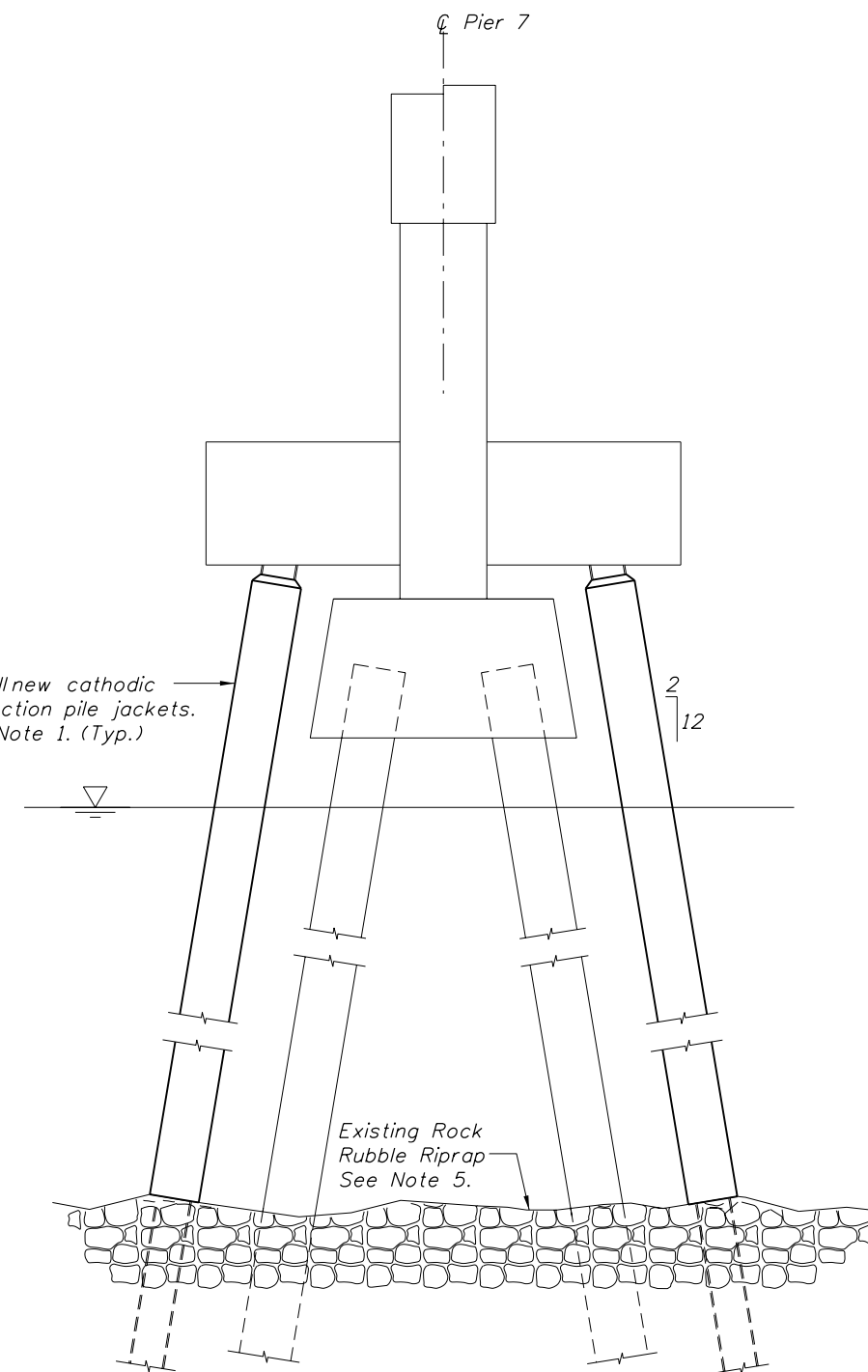
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CHECKED BY: KSS 09-10			
DESIGNED BY: TJF 03-10	ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CHECKED BY: KSS 09-10	700	HIGHLANDS	413817-1-52-01

SHEET TITLE:	BRIDGE NO. 090016 REPAIR DETAILS PIER 7 - SHEET 1 OF 2	REF. DWG. NO.
PROJECT NAME:	BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001	SHEET NO. BI-12

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FRONT ELEVATION

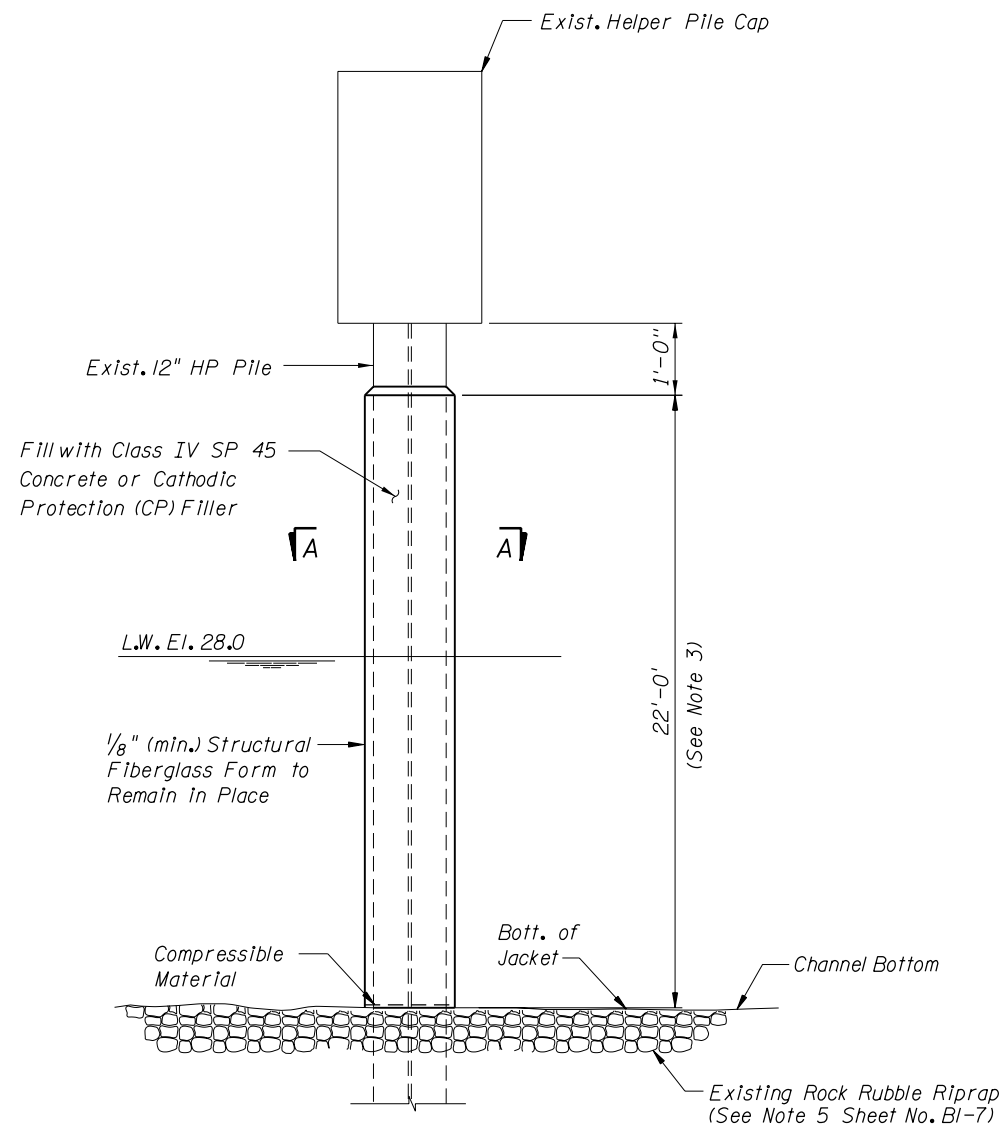


SIDE VIEW

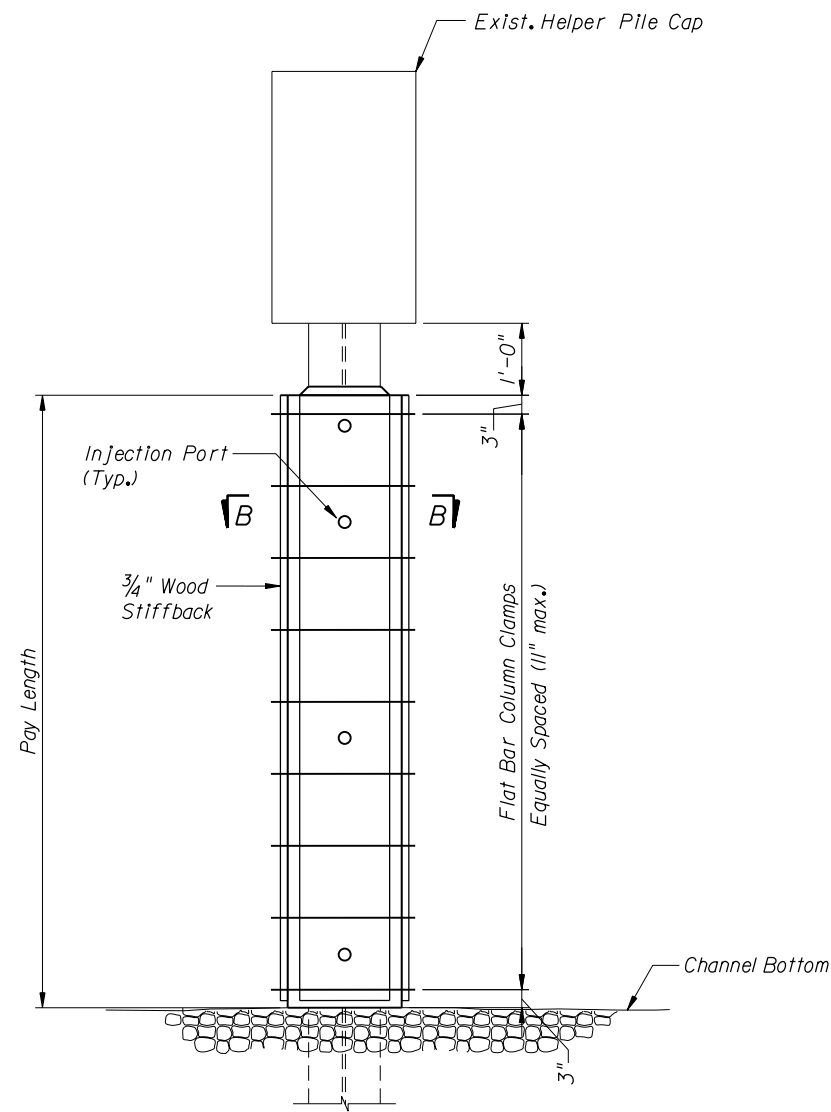
- NOTES:
1. Remove existing helper pile jackets. Take care not to damage the piles when the jackets are removed.
 2. New integral pile jackets shall include cathodic protection.
 3. For integral pile jacket details see Sheet No. B1-14.
 4. For cathodic protection details see Sheet No. B1-15.
 5. The Contractor is advised of the presence of scour countermeasures around the pier. This consists of previously placed rock rubble riprap. Remove and replace any scour countermeasures as necessary to construct the pile jackets. Other drift debris or scour countermeasure material other than rock rubble riprap may be located on the channel bottom within the construction limits. Remove and dispose of this debris.

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						700	HIGHLANDS	413817-1-52-01	BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001	SHEET NO. B1-13		

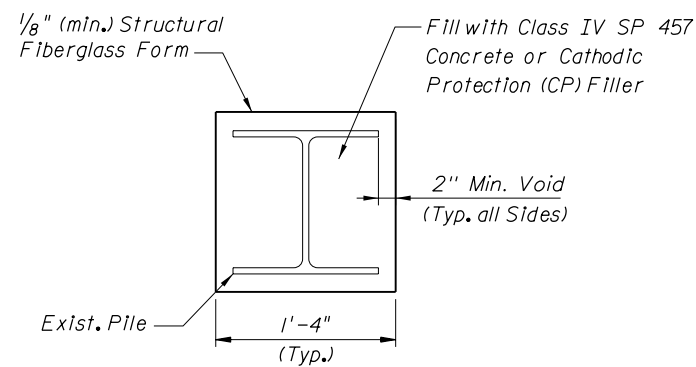
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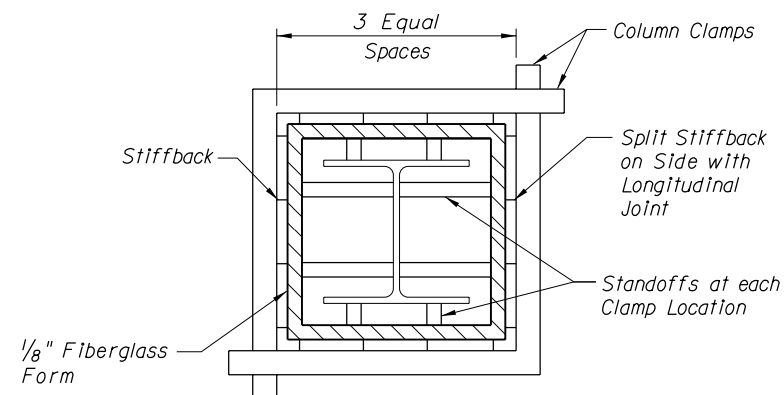
INTEGRAL PILE JACKET DETAIL
NTS



CONSTRUCTION METHOD DETAIL
NTS



SECTION A-A
(Scale Increased For Clarity)



SECTION B-B
(Scale Increased For Clarity)

NOTES:

1. See Sheet No. BI-15 for Cathodic Protection Details.
2. See Sheet No. BI-13 for Jacket Locations.
3. Verify pile size, batter, and jacket lengths in the field before ordering materials.
4. A Type I turbidity barrier will be required around Pier 7 during the pile jacket repair work.

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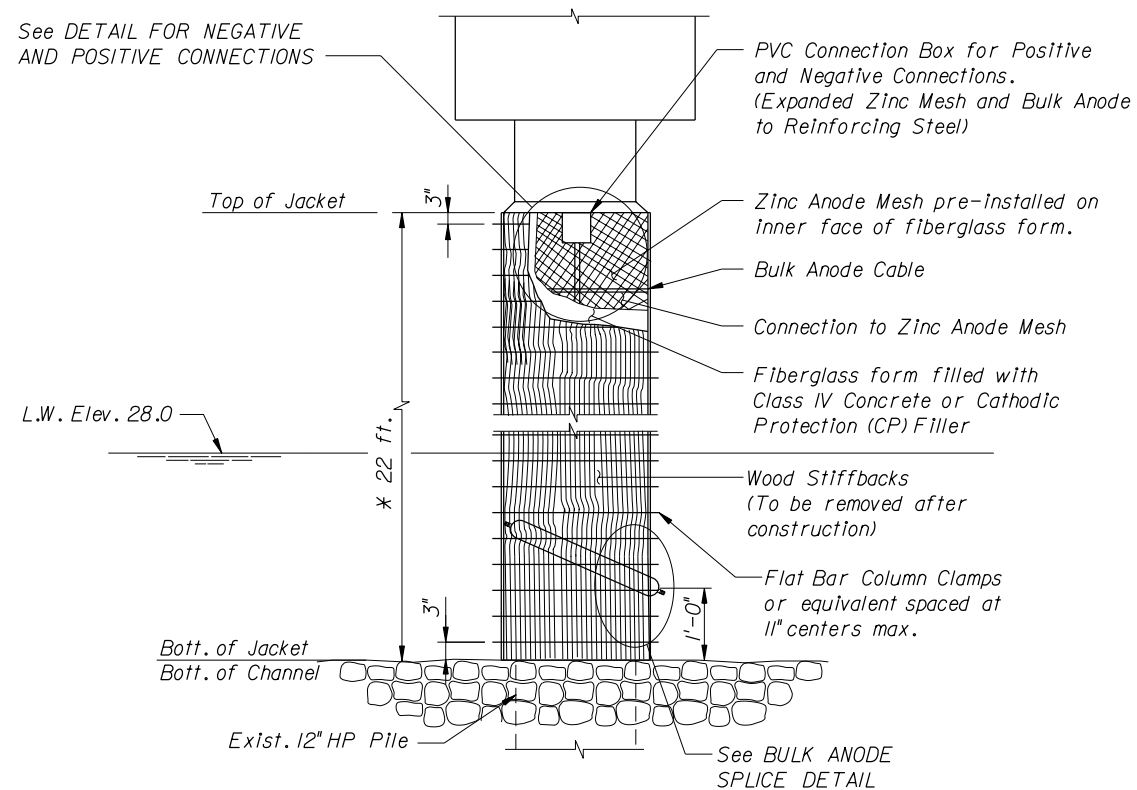
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CHECKED BY:
KSS 09-10
DESIGNED BY:
TJF 02-10
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KSS 09-10

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
700	HIGHLANDS	413817-1-52-01

SHEET TITLE:	BRIDGE NO. 090016 INTEGRAL PILE JACKET DETAILS - PIER 7	REF. DWG. NO.
PROJECT NAME:	BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001	SHEET NO. BI-14

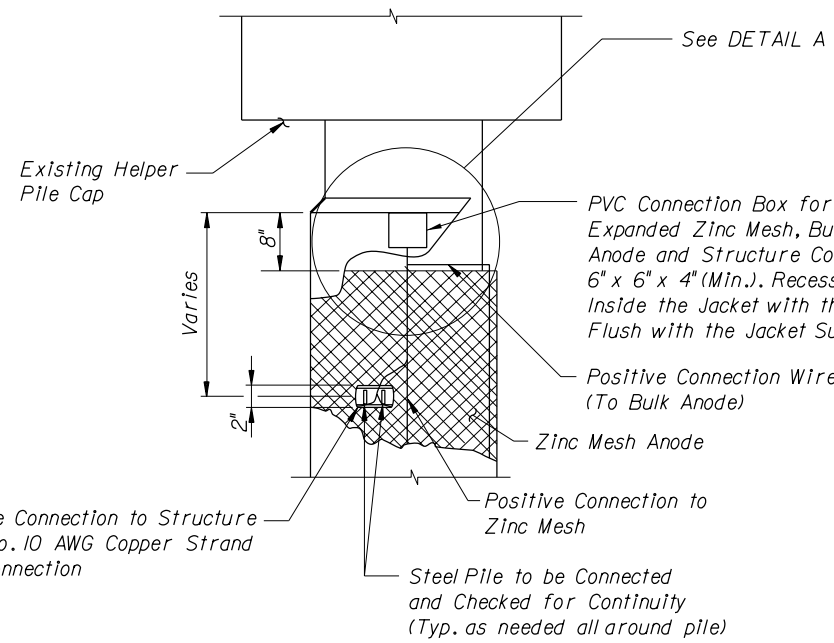
See DETAIL FOR NEGATIVE AND POSITIVE CONNECTIONS



SACRIFICIAL CATHODIC PROTECTION/STRUCTURAL INTEGRAL PILE JACKET

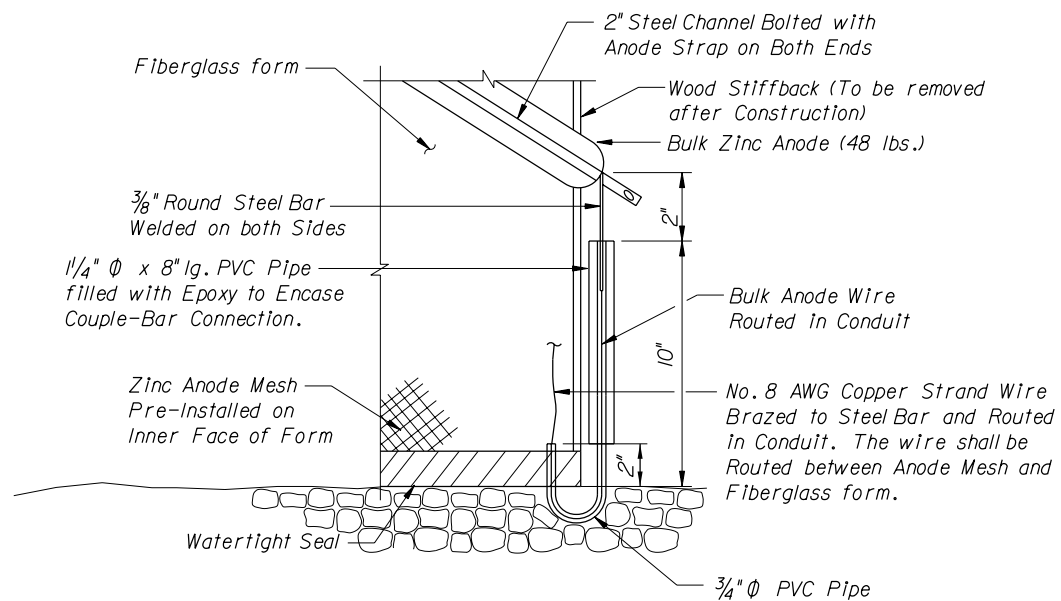
NTS

* Verify actual Jacket Lengths before ordering jackets.



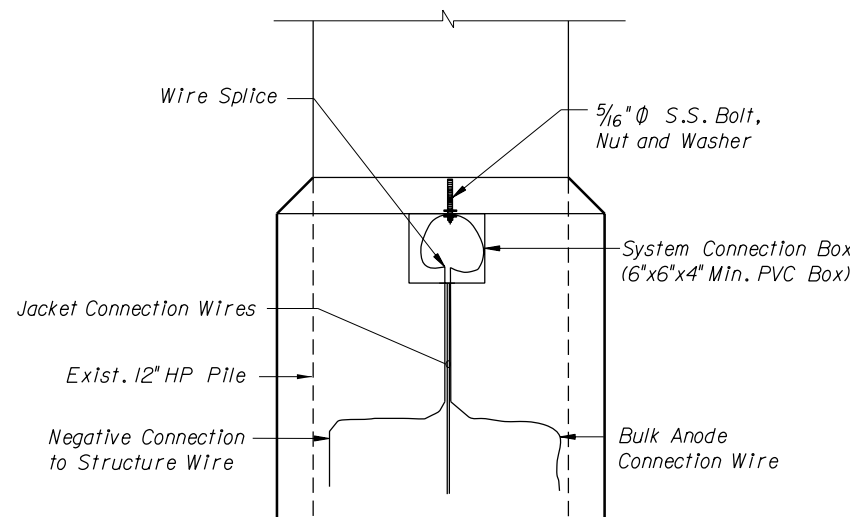
DETAIL FOR NEGATIVE AND POSITIVE CONNECTIONS

NTS



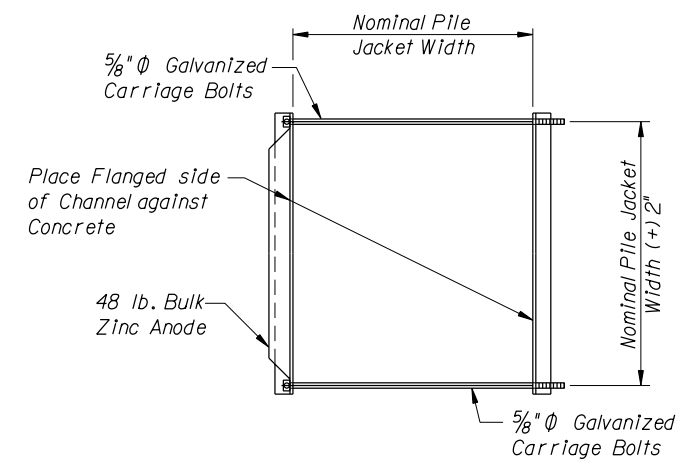
BULK ANODE SPLICE DETAIL

NTS



DETAIL A

NTS



BULK ANODE ASSEMBLY

NTS

NOTE: Punch square holes for bolts in 2" Channels prior to Hot Dip Galvanizing

REVISIONS					
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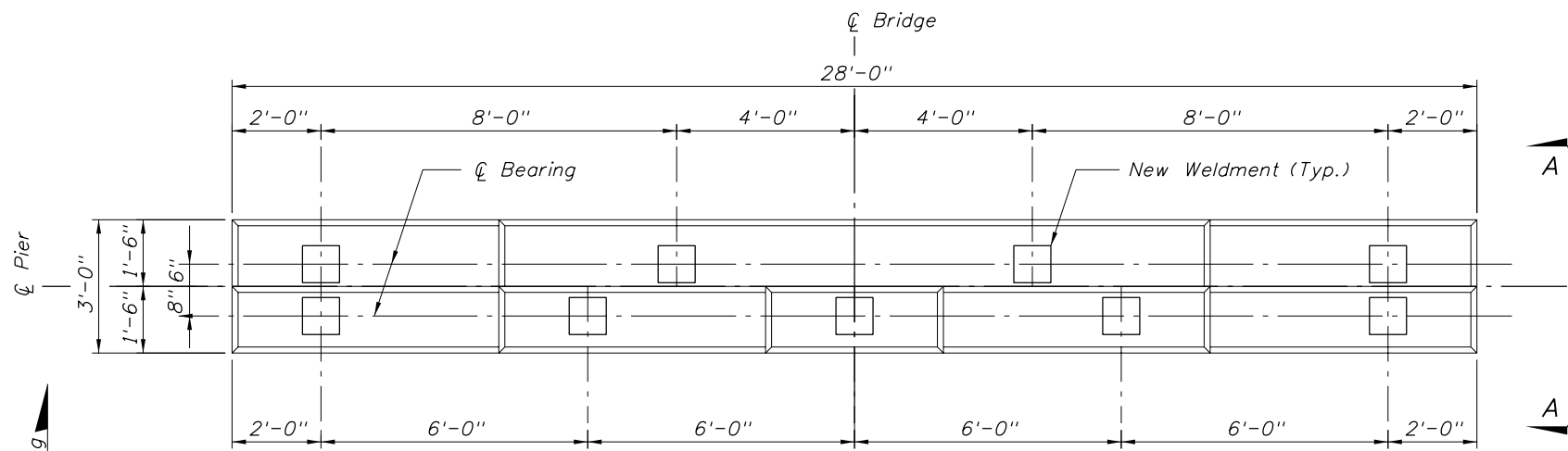
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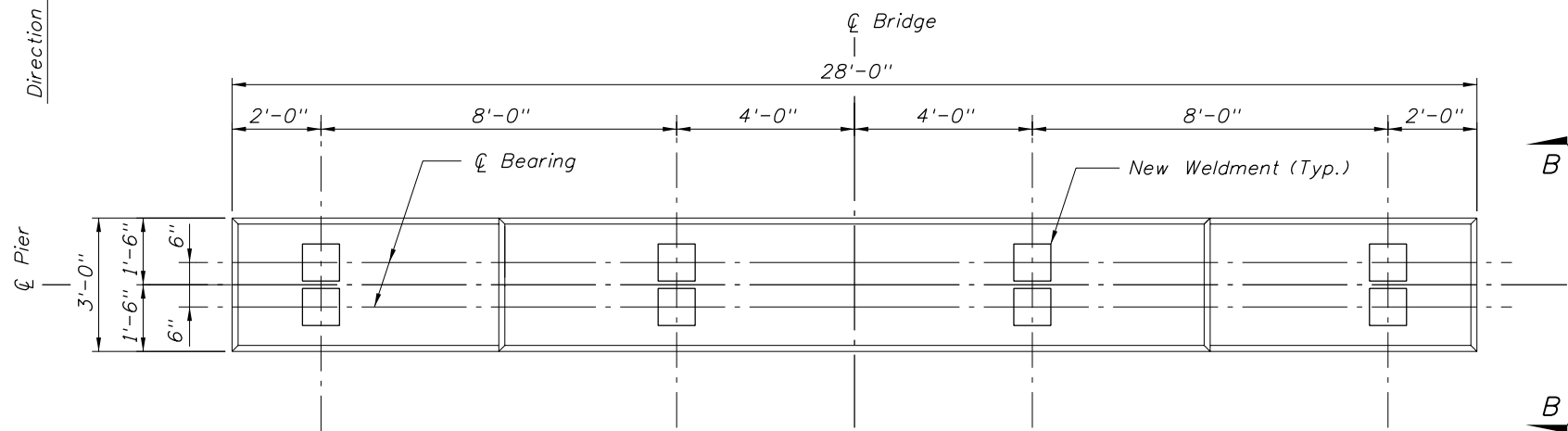
STATE OF FLORIDA
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
700	HIGHLANDS	413817-1-52-01

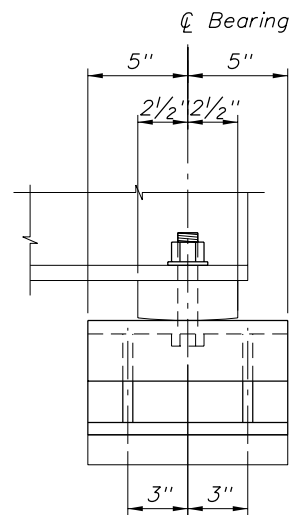
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PROJECT NAME:	BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001	SHEET NO.
		BI-15



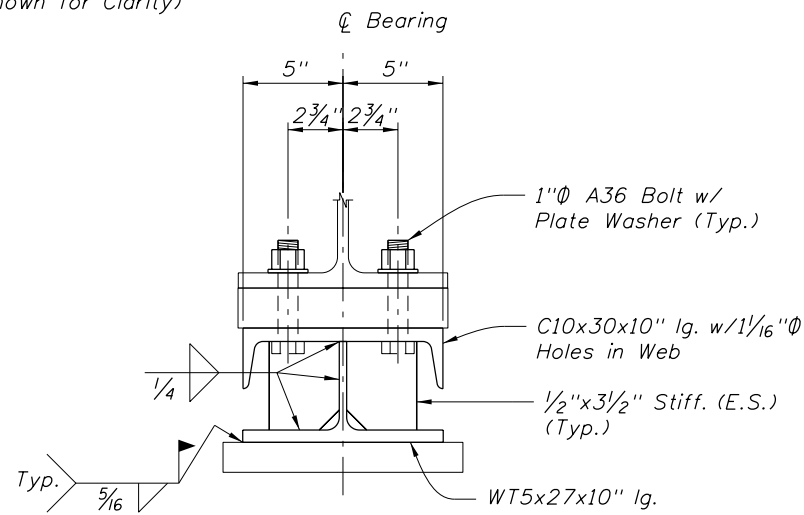
PLAN - PIER CAP 10
(Crutch Bent Not Shown for Clarity)



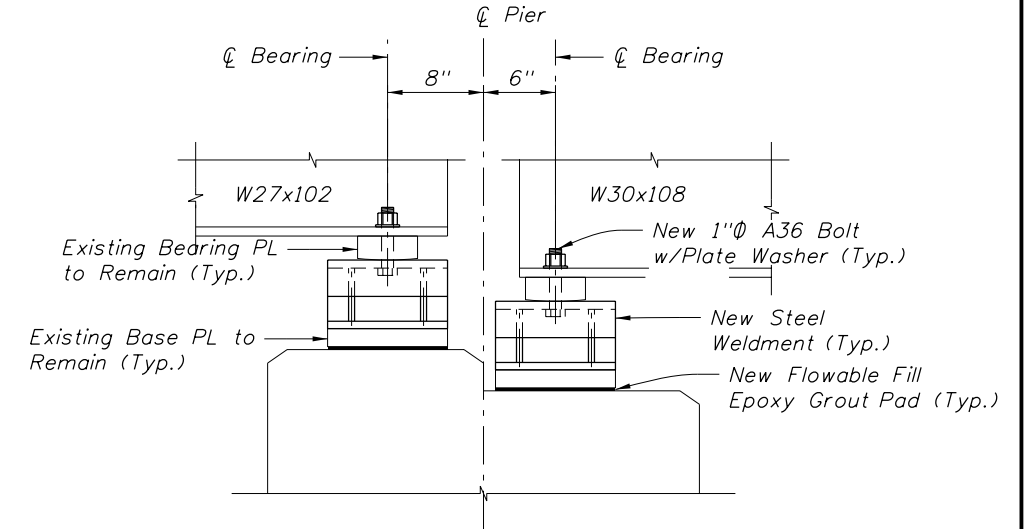
PLAN - PIER CAP 11
(Crutch Bent Not Shown for Clarity)



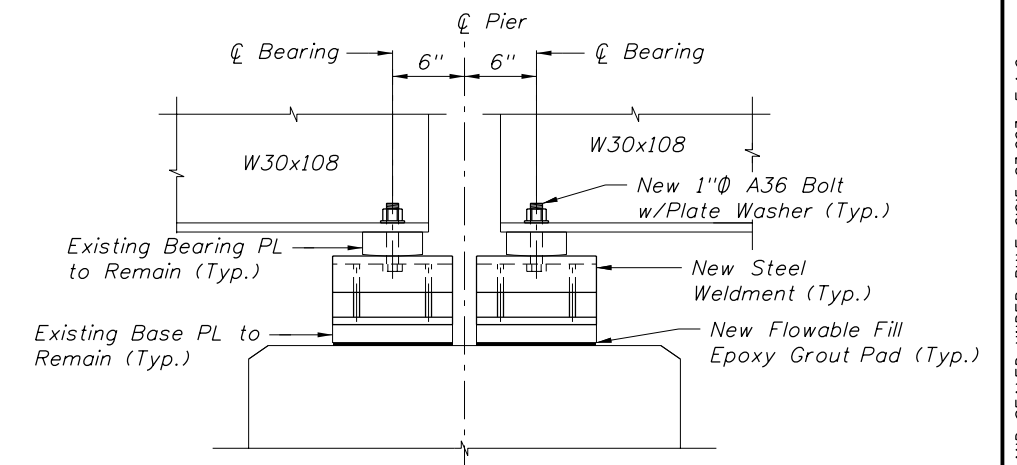
SIDE ELEVATION



WELDMENT DETAIL
(17 Required - 60 lbs. each)



VIEW A-A



VIEW B-B

PROPOSED SEQUENCE FOR BEARING REPAIRS:

1. Align the existing bearing plate, new weldment, and existing baseplate on the pier cap.
2. Loosely bolt the existing bearing plate to the weldment. Align the bolts in the center of the slotted bearing plate holes.
3. Field weld the existing baseplate to the weldment.
4. Tighten the bolted connection to a snug tight condition to bring the weldment/baseplate assembly into full contact with the bearing plate.
5. Place a flowable fill epoxy grout between the baseplate and pier cap to provide full bearing contact.

NOTE:

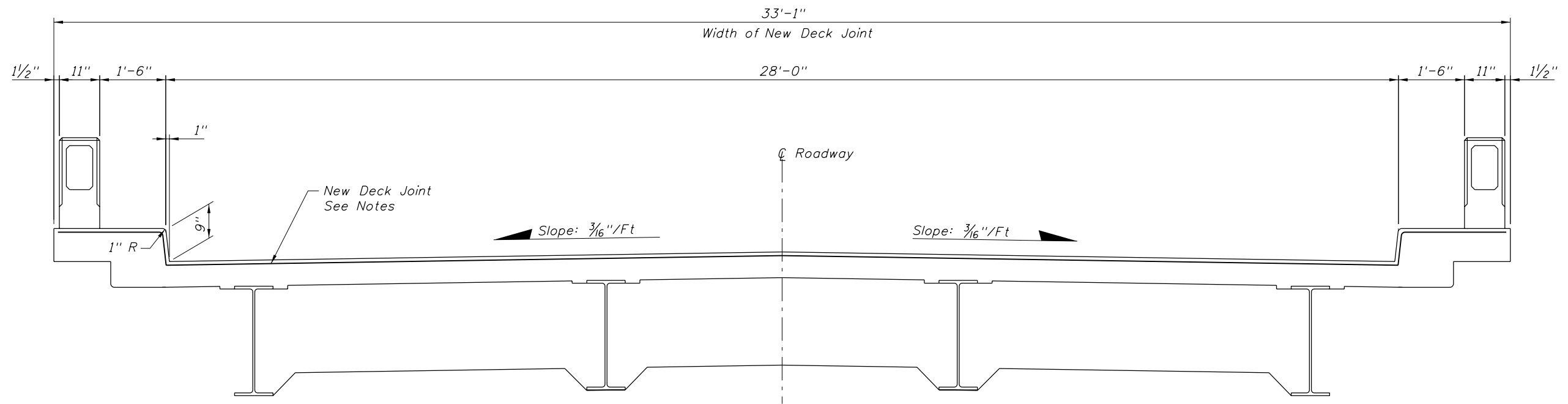
1. At bearing locations where there is insufficient room to install a weldment, bolt the existing bearing plate to the existing base plate and use an epoxy grout underneath the baseplate to provide full bearing contact with the pier cap.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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DRAWN BY: JPN 08-10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
CHECKED BY: KSS 09-10	ROAD NO.	COUNTY	FINANCIAL PROJECT ID
DESIGNED BY: TJF 08-10	700	HIGHLANDS	413817-1-52-01
CHECKED BY: KSS 09-10			

SHEET TITLE:	BRIDGE NO. 090016 REPAIR DETAILS PIERS 10 AND 11	REF. DWG. NO.
PROJECT NAME:	BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001	SHEET NO. BI-16



EXPANSION DECK JOINT DETAIL

JOINT REPAIR NOTES:

1. Install the new deck joints in accordance with Index No. 21110.
2. Dimension "A" as shown on Sheet No. 1 of 2 of the Index shall be taken as the width of the existing joint at the time the material is installed. The existing expansion joint widths vary from approximately 1" to approximately 2". This dimension shall be field verified by the Contractor.
3. Adjustments to the joint at temperatures other than 70° are not required.
4. Remove existing seal and clean concrete surface before placing the new deck joints. Thoroughly clean joint surfaces which will contact backer rod and joint by abrasive blasting. Ensure all old joint sealers, adhesives, grease and contaminants are removed. Blow down cleaned areas with clean, compressed air. Apply sealer to concrete surfaces in accordance with sealer manufacturer's requirements before installing backing rod.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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DESIGNED BY:
TJF 03-10
CHECKED BY:
KSS 09-10

**STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION**

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
700	HIGHLANDS	413817-1-52-01

SHEET TITLE:

BRIDGE NO. 090016
DECK JOINT REPAIR DETAILS

PROJECT NAME:

BRIDGE REPAIRS AND PAINTING
NOS. 090016, 170098 AND 910001

REF. DWG. NO.

SHEET NO.

BI-17

CONCRETE REPAIR TABLE - SUPERSTRUCTURE			
SPAN NO.	DEFECT	LOCATION	SIZE
1	Spall with Exposed Steel	Underside Left Overhang, Near Scupper at 2/3 Span Length	4" L x 4" W x 1" D
5	2 Spalls	Underside Left Overhang, Near Pier 5	6" L x 4" W x 1" D
6	Delamination Patch with Exposed Steel	Underside of Deck, Bay 3, Over Pier 7	24" L x 38" W x 2" D
3	Spall with Exposed Steel	Diaphragm at Beam 2, Over Pier 4	6" L x 5" W x 3" D
5	Honeycombing with Exposed Steel	North Diaphragm, Over Pier 5	72" L x 8" W x 1" D

CONCRETE REPAIR TABLE - BULKHEAD			
END BENT NO.	DEFECT	LOCATION	SIZE
12	Spall with Exposed Steel	Cap, Under Beam 4	15" L x 8" W x 6" D
12	Honeycombing	East Face of Wall, South Side of Bridge	24" L x 24" W x 2" D

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							700	HIGHLANDS	413817-1-52-01	BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001	SHEET NO. BI-18	

CONCRETE SPALL REPAIR GENERAL NOTES

The details on this sheet apply to the repair of all spalled and unsound concrete noted on the "Concrete Repair Locations" sheet for Bridge No. 090016.

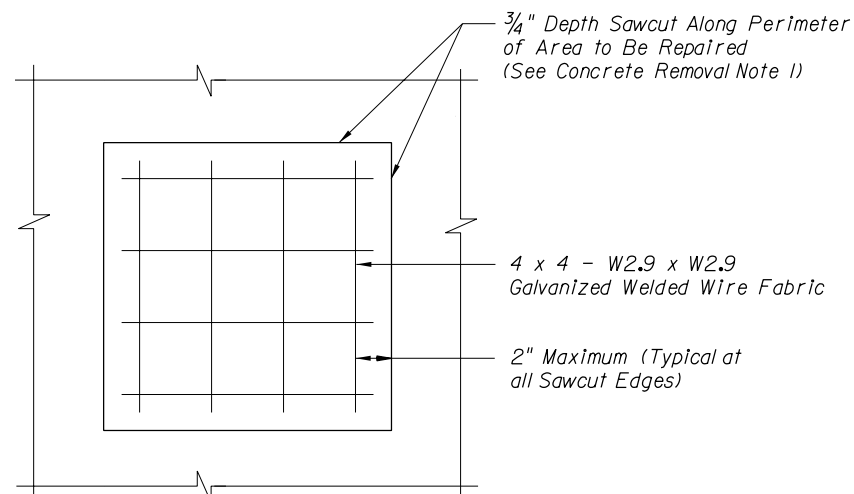
The Contractor shall sound all concrete surfaces to determine the limits of unsound concrete to be removed and repaired. Limits shall be marked on the surfaces for review and approval by the Engineer before concrete removal. The depth of removal shall be per the notes and details on this sheet and as approved by the Engineer.

EXPOSED REINFORCING STEEL NOTES

1. Remove rust from exposed reinforcing steel by abrading to "near white metal condition" and prepare surfaces in accordance with ICRI Technical Guide 03730 "Guide for Surface Preparation of Deteriorated Concrete Resulting from Reinforcing Steel Corrosion".
2. Where existing reinforcing steel has greater than 40% loss in cross-sectional area due to corrosive deterioration or damage, supplement reinforcing with additional reinforcing as shown.

WELDED WIRE FABRIC (WWF) NOTES

1. Where depth of concrete cover exceeds 2", install galvanized welded wire fabric.
2. Field bend Welded Wire Fabric to conform with any changes in the concrete surface profile.
3. Tie Welded Wire Fabric to existing reinforcement with galvanized wire. Ties shall be spaced at 8" maximum.
4. Welded Wire Fabric shall conform to ASTM A185.



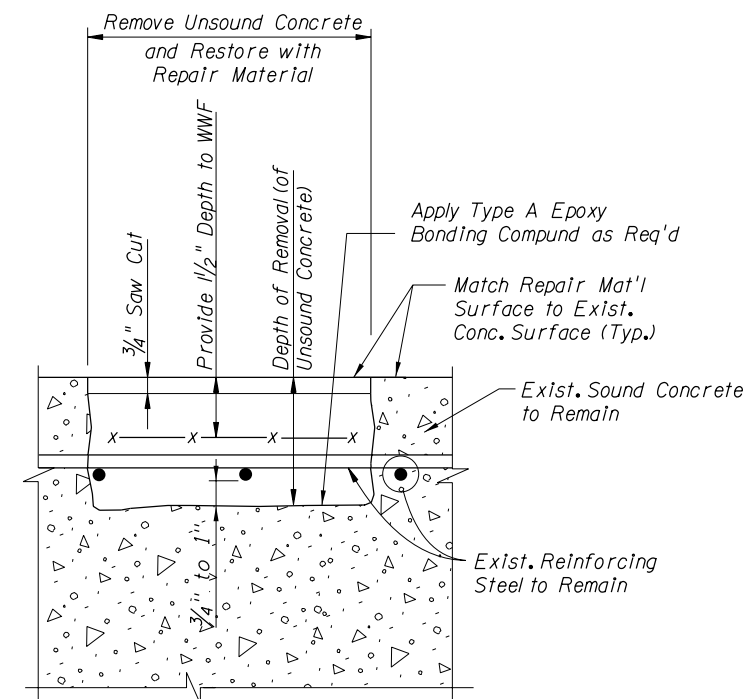
WELDED WIRE FABRIC DETAIL

CONCRETE REMOVAL AND SURFACE PREPARATION NOTES

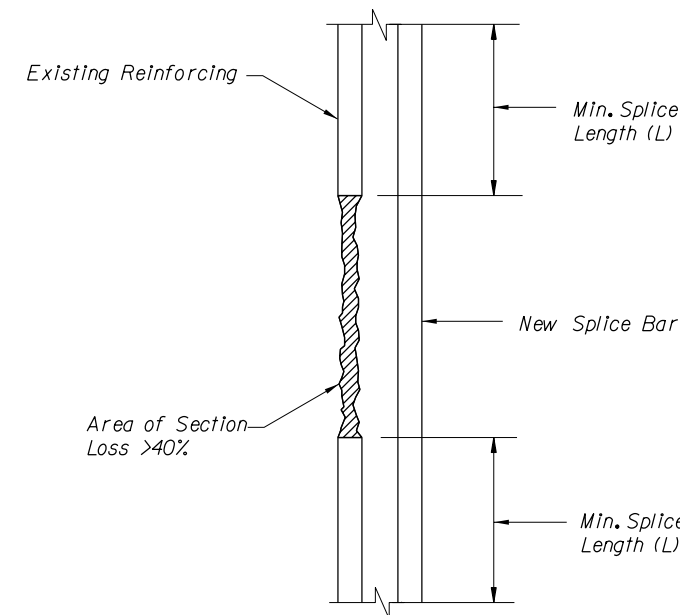
1. Remove all unsound concrete to clean, well bonded reinforcement and prepare surfaces for repair in accordance with ICRI Technical Guidelines 03730 "Guide for Surface Preparation of Deteriorated Concrete Resulting from Reinforcing Steel Corrosion".
2. All repair areas shall have square edges around the perimeter of the spall defined by 3/4" deep saw cut lines. Chip the repair edges clean to form 45 to 90 degree corners along the edges and corners of the repair area. The depth of the chipped edge shall be 3/4" or greater. Feathered edges will not be acceptable.
3. Remove unsound concrete using mechanical abrasion, but do not use excessive force, which may cause micro-fracturing of the sound concrete. Remove concrete behind bars 3/4" to 1". Phased repairs may be necessary.
4. Care shall be taken to avoid damaging the existing reinforcement.
5. Prepared surfaces shall be intentionally roughened to a minimum profile of 1/4" to provide mechanical lock for the repair.
6. Concrete surfaces shall be structurally sound and free of bond inhibiting substances.
7. Where the bond between existing concrete and reinforcement has been destroyed or where more than half the bar circumference is exposed, remove the concrete adjacent to the bar to a depth that will permit the concrete repair mortar to bond to the entire periphery of the bar. Provide a minimum depth behind the reinforcement of 3/4" to 1" for this purpose.
8. Apply a Type A epoxy compound in accordance with Section 926 of the Specification to the existing concrete surfaces prior to placing the fresh repair material.

CONCRETE SPALL REPAIR NOTES

1. Restore concrete surfaces using approved materials in accordance with Section 926 or Section 930 of the Specifications.
2. For spalls with an average depth of 1" or less, repair using a Type F-1 or Type F-2 epoxy repair mortar. For spalls with an average depth greater than 1", repair using a material meeting the requirements of Section 930 of the Standard Specifications.
3. Select materials suitable for application including orientation (e.g. horizontal, vertical or overhead application) and thickness.
4. Mix, place and cure repair materials in accordance with Manufacturer's recommendations.
5. Finish repair materials flush with the original concrete surface (U.N.O.) The surface finish shall meet the requirements for a General Surface Finish per Section 400 of the Specifications.
6. Cure repair materials as necessary to prevent shrinkage cracks. Cracked repairs will not be considered satisfactory and shall be removed and replaced.



CONCRETE SPALL REPAIR DETAILS

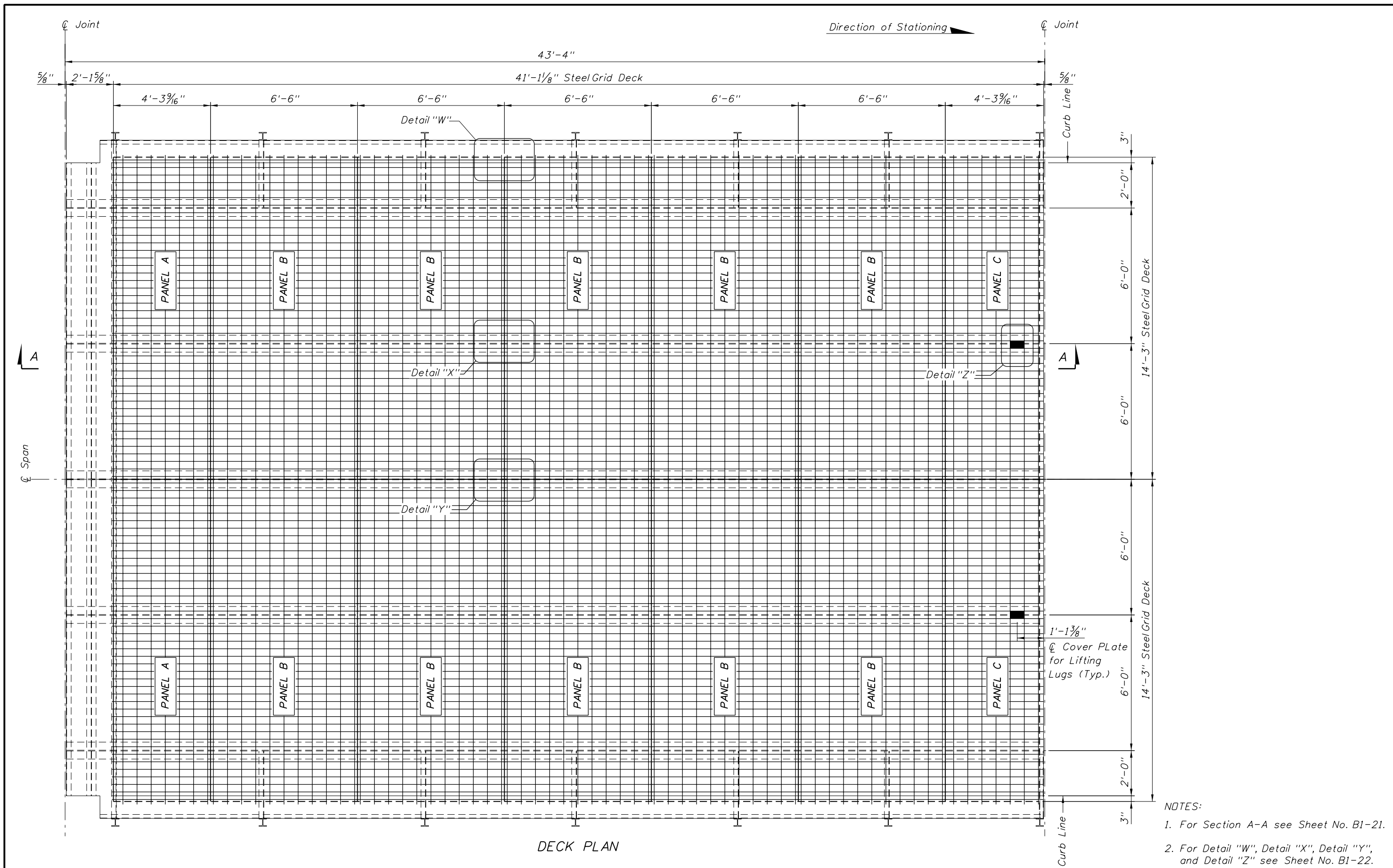


EXISTING BAR SIZE	SPLICE BAR SIZE	LENGTH, L
#4 Bar	#4 Bar	14"
#5 Bar	#5 Bar	16"

NEW BAR PLACEMENT DETAIL

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						700	HIGHLANDS	413817-1-52-01	BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001	BI-19		

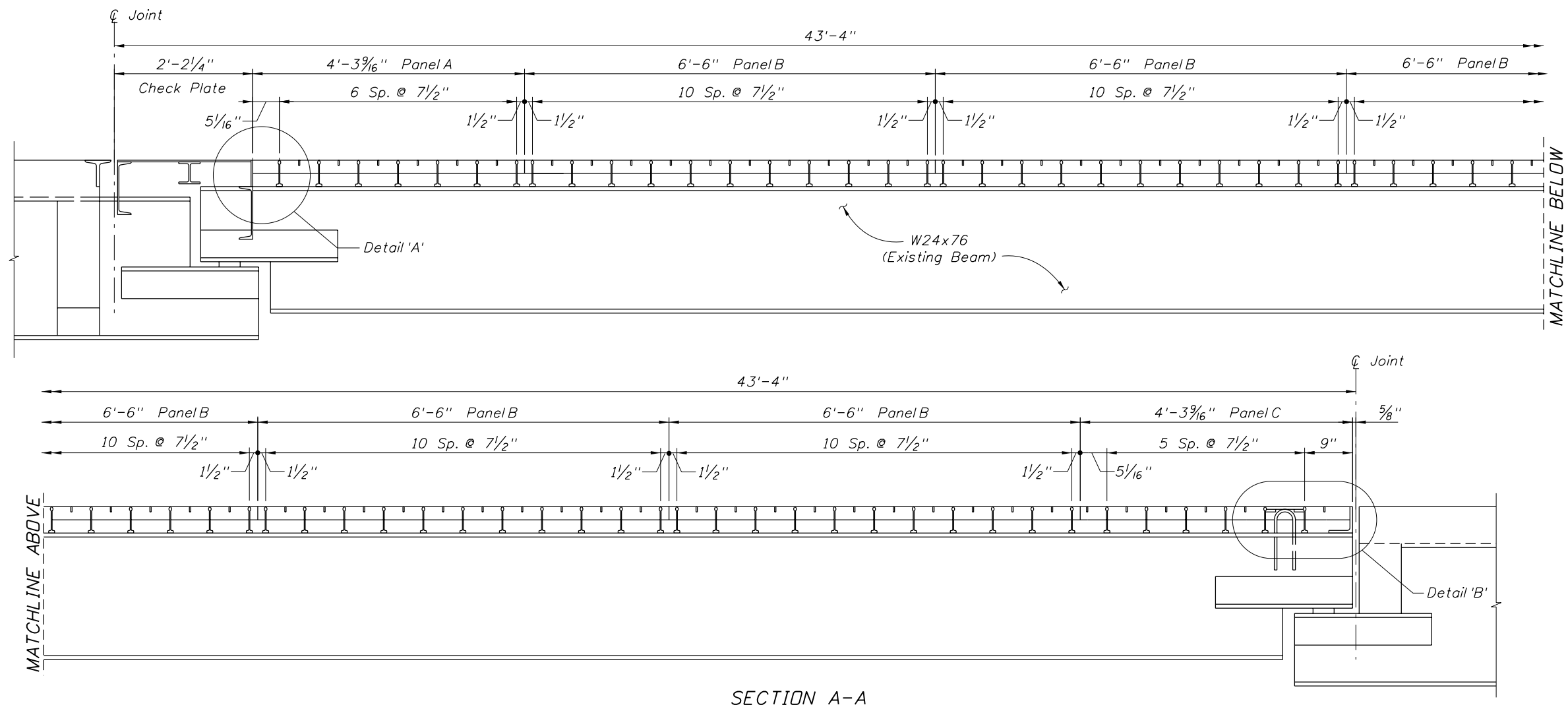
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- NOTES:**
1. For Section A-A see Sheet No. B1-21.
 2. For Detail "W", Detail "X", Detail "Y", and Detail "Z" see Sheet No. B1-22.

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		SHEET NO.
						700	HIGHLANDS	413817-1-52-01	BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001		B1-20		

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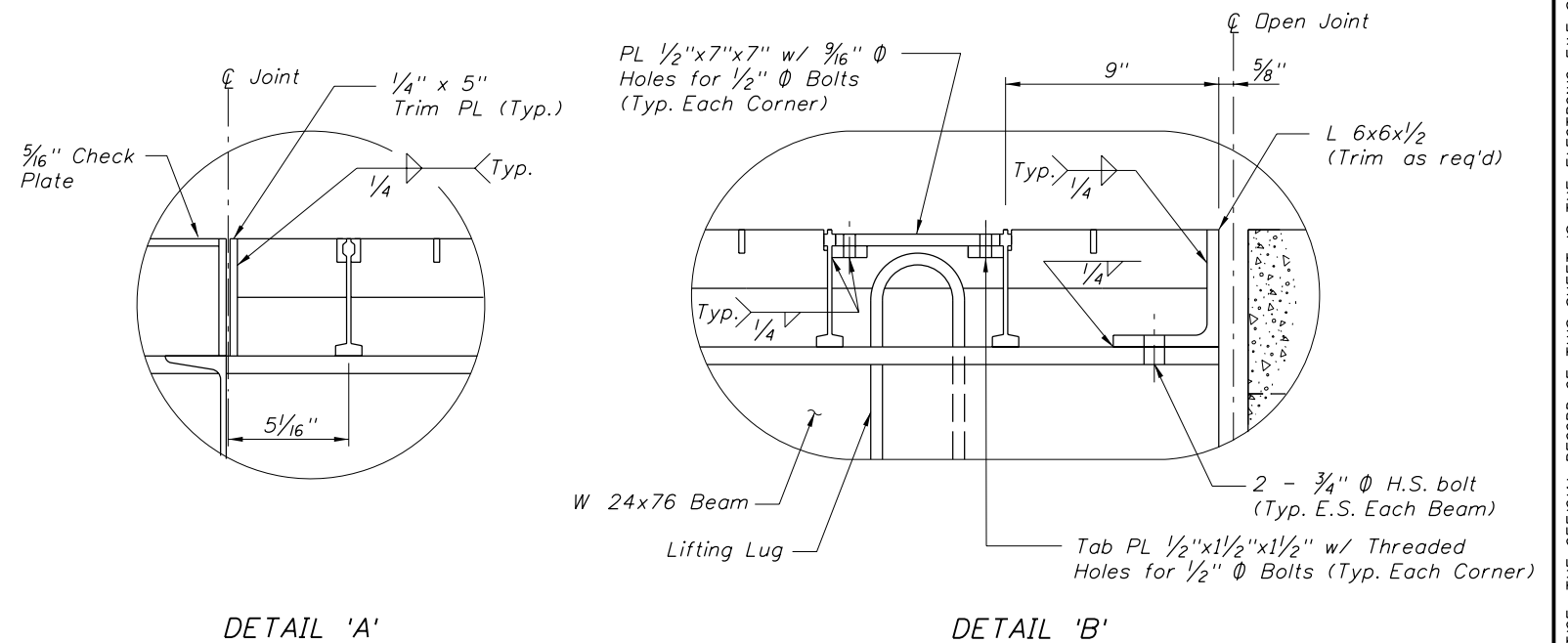


SECTION A-A

5 3/16" STEEL OPEN GRID DECK:

- 5 3/16" deep x 5.6 lb. per ft. Main Bars at 7 1/2" o.c.
- One 1/4" x 1" Supplemental Bar between the Main Bars.
- 1/4" x 2 1/2" Cross Bars at 4" o.c.
- 1/4" x 1" Diagonal Bars connected alternately to the Main Bars and Supplemental Bars
- 1/4" x 5" End Trim Bars.
- 3/16" deep x 3/8" wide serrations at 3/4" o.c. on Supplemental Bars, Cross Bars and Diagonal Bars.
- 3/16" deep x 3/8" wide serrations at 1 1/4" o.c. on Main Bars.
- Mat'l: ASTM A709 Grade 36 Steel.
- Hot dip galvanize Panels per ASTM A123 after fabrication.
- Main Bars, Supplemental Bars, Cross Bars and Diagonal Bars interconnected by welding per Manufacturer's standards.
- Unit weight of 21 lb/sq. ft. ± 1.5 lbs/sq. ft. after fabrication and galvanizing.

STEEL GRID PANEL TOLERANCES	
Panel Width	+0, -1/8"
Panel Length	± 1/4"
Bar Offset	± 1/16"
Squareness	± 1/2" Measured diagonally
Camber - Width	0.005 x Width
Camber - Length	0.003 x Length
Sweep	± 1/8"
Main Bar Vertically	± 1/16"
Form Pan Location	± 1/8"



DETAIL 'A'

DETAIL 'B'

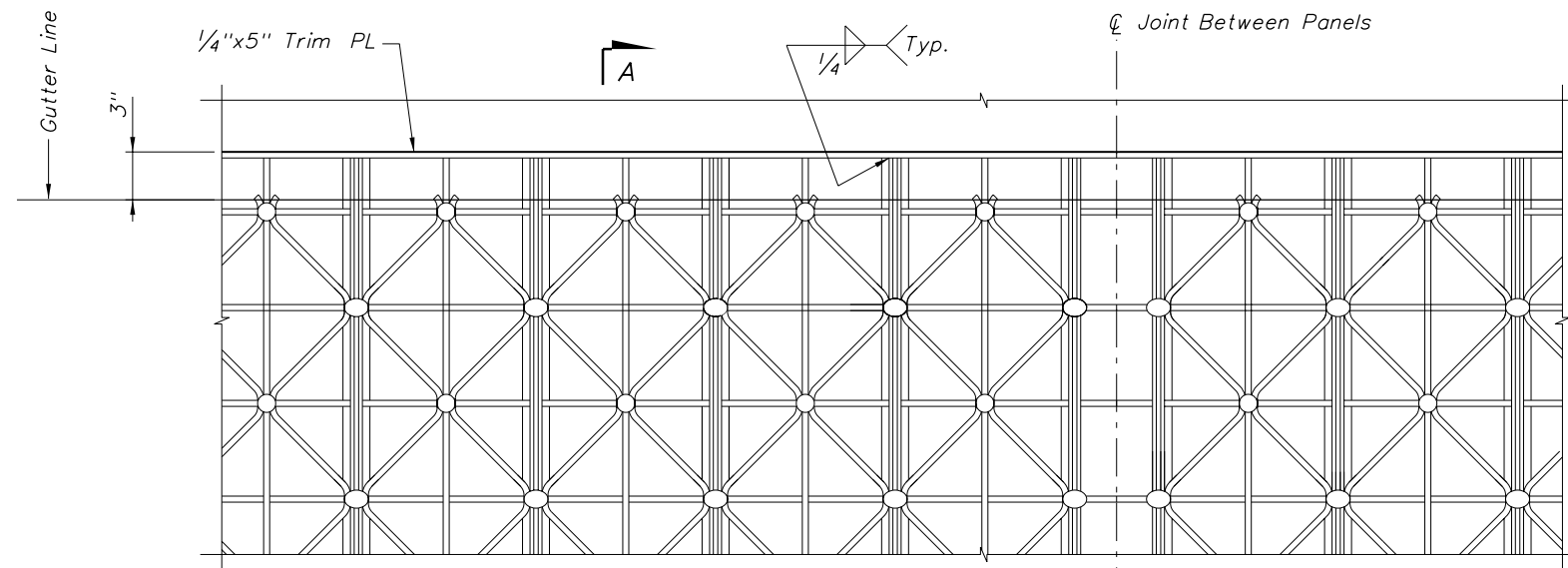
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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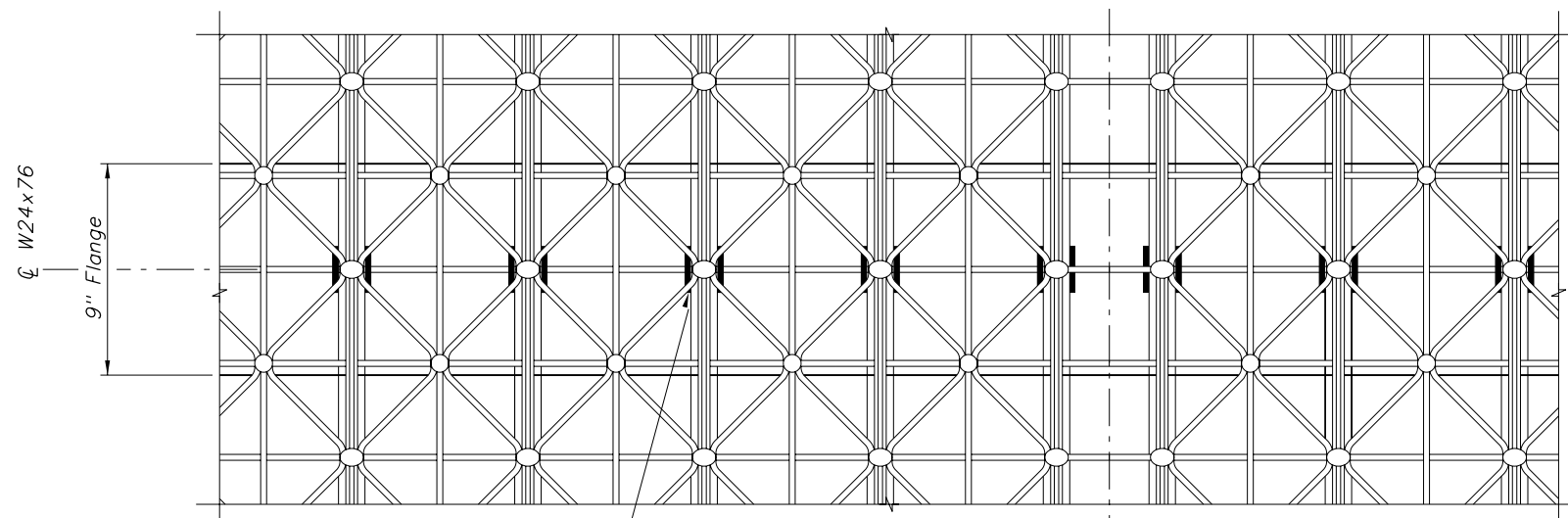
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DESIGNED BY: TJF 02-10	ROAD NO. 700	COUNTY HIGHLANDS	FINANCIAL PROJECT ID 413817-1-52-01
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SHEET TITLE: BRIDGE NO. 090016 MOVABLE SPAN DECK DETAILS - SHEET 1 OF 2		REF. DWG. NO.
PROJECT NAME: BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001		SHEET NO. BI-21

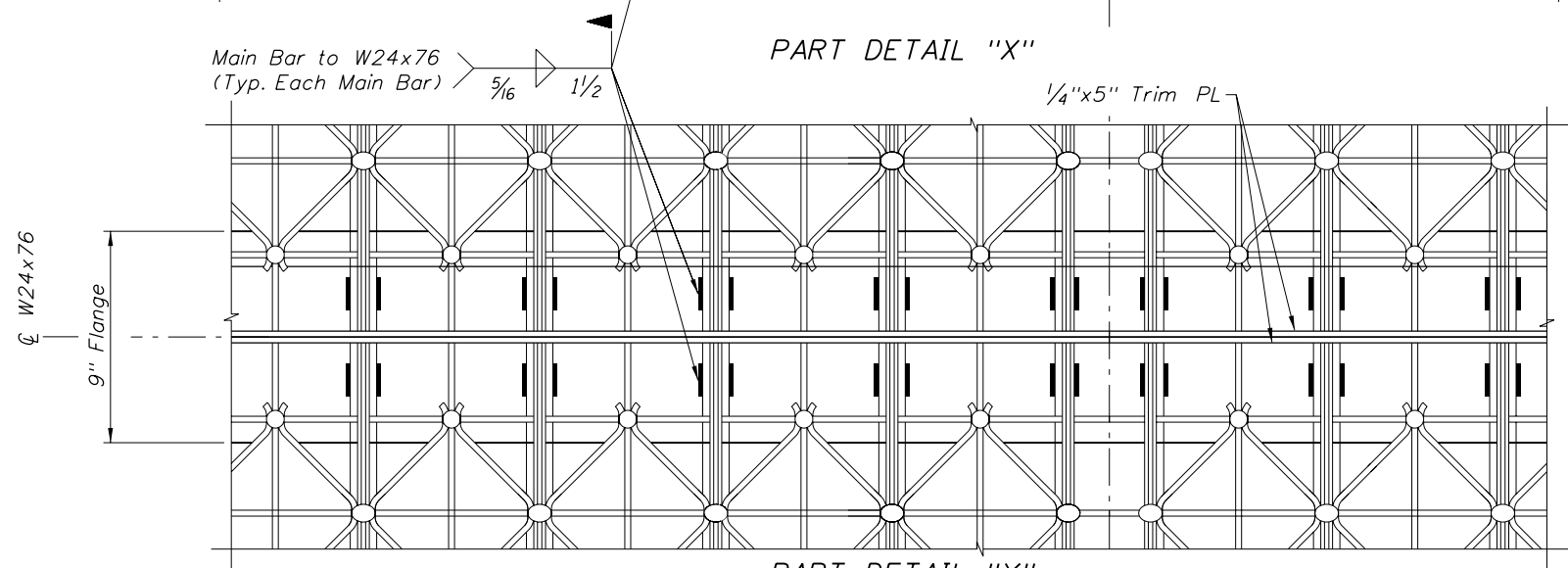
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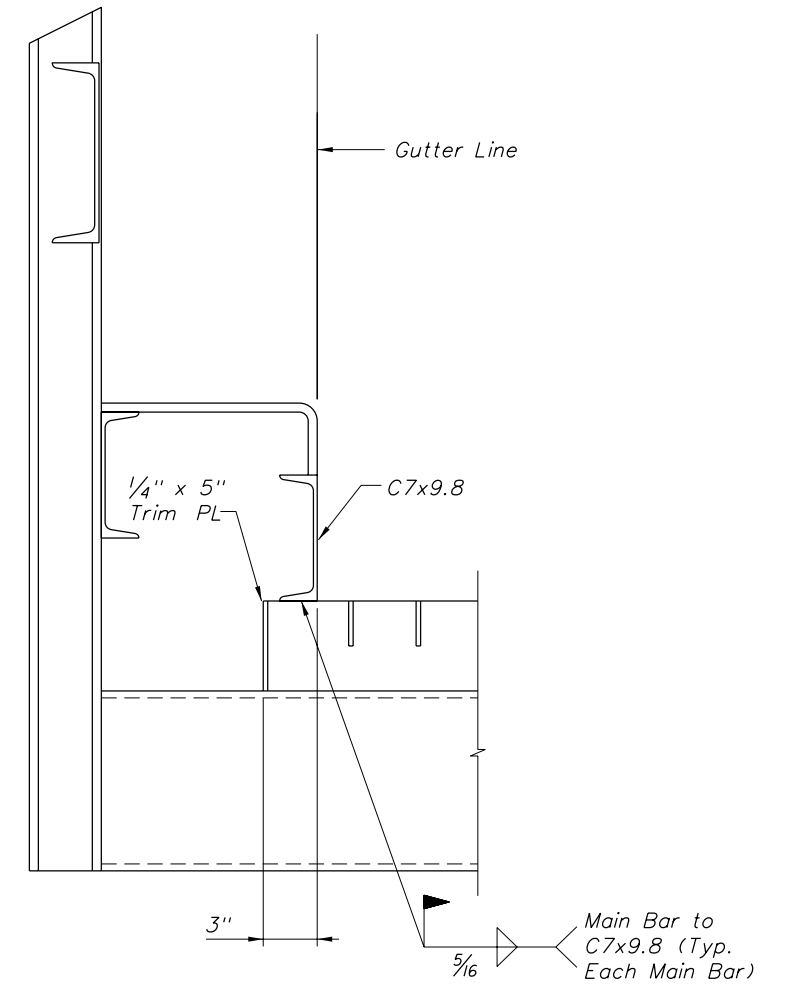
PART DETAIL "W" ☒ Joint Between Panels



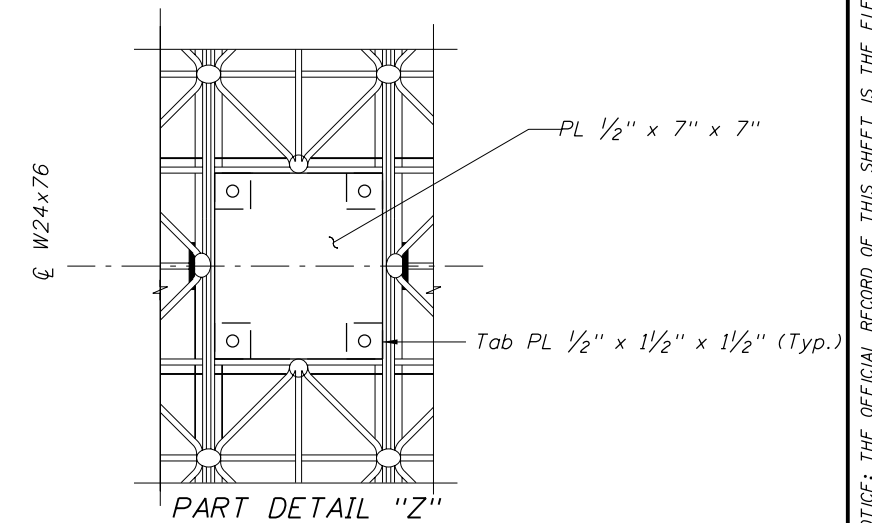
PART DETAIL "X"



PART DETAIL "Y"



SECTION A-A



PART DETAIL "Z"

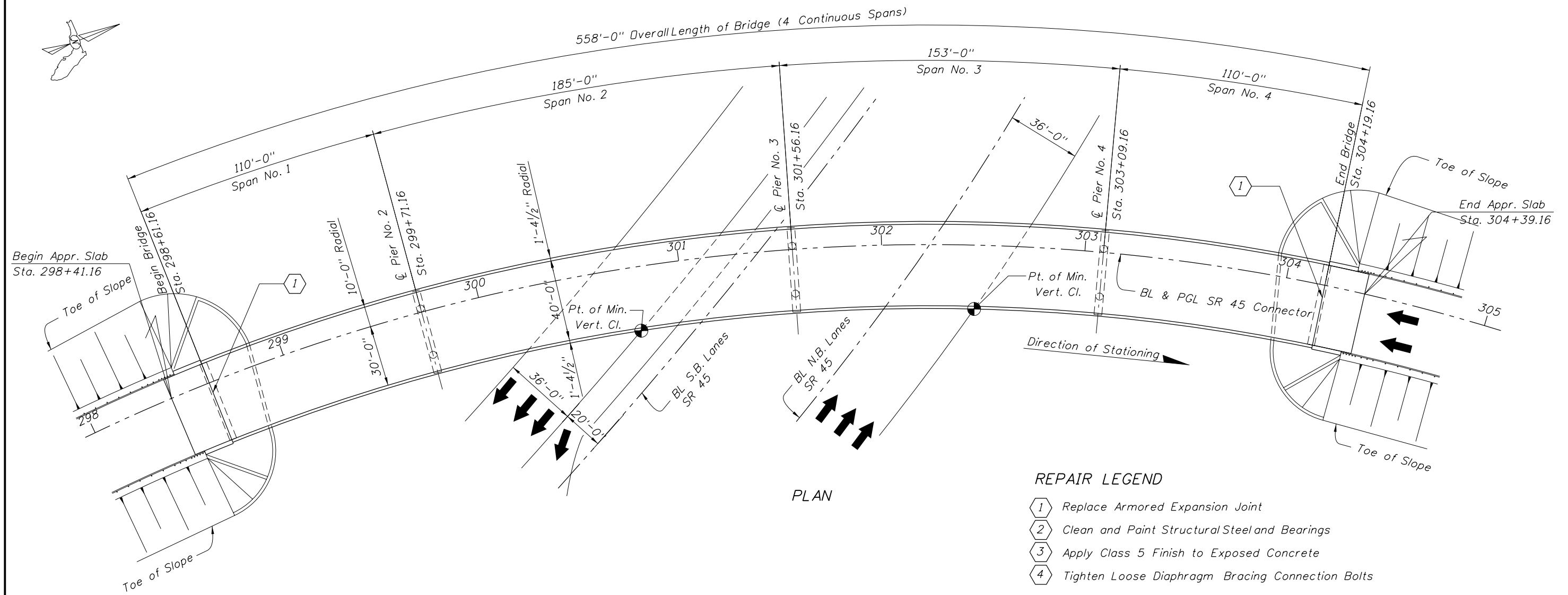
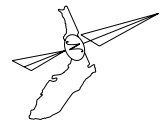
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DESIGNED BY: TJF 02-10	ROAD NO. 700	COUNTY HIGHLANDS	FINANCIAL PROJECT ID 413817-1-52-01
CHECKED BY: KSS 09-10	PROJECT NAME: BRIDGE NO. 090016 MOVABLE SPAN DECK DETAILS - SHEET 2 OF 2		

SHEET TITLE: BRIDGE NO. 090016 MOVABLE SPAN DECK DETAILS - SHEET 2 OF 2		REF. DWG. NO.
PROJECT NAME: BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001		SHEET NO. BI-22

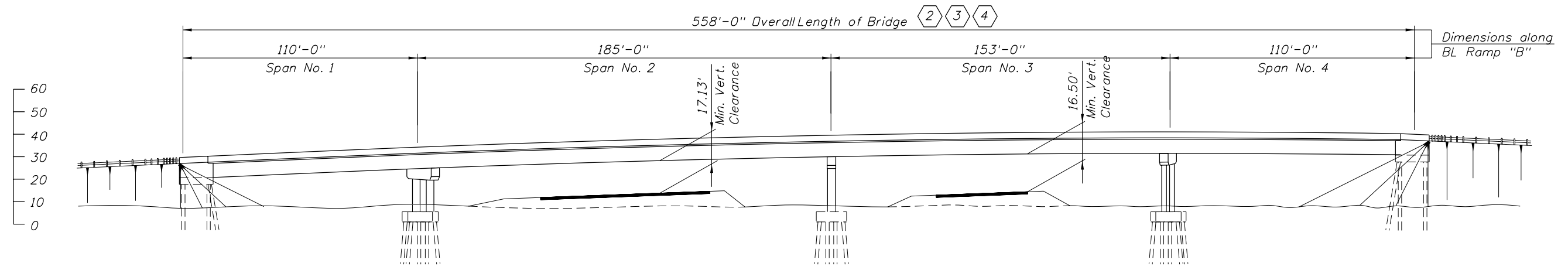
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PLAN

REPAIR LEGEND

- ① Replace Armored Expansion Joint
- ② Clean and Paint Structural Steel and Bearings
- ③ Apply Class 5 Finish to Exposed Concrete
- ④ Tighten Loose Diaphragm Bracing Connection Bolts



ELEVATION

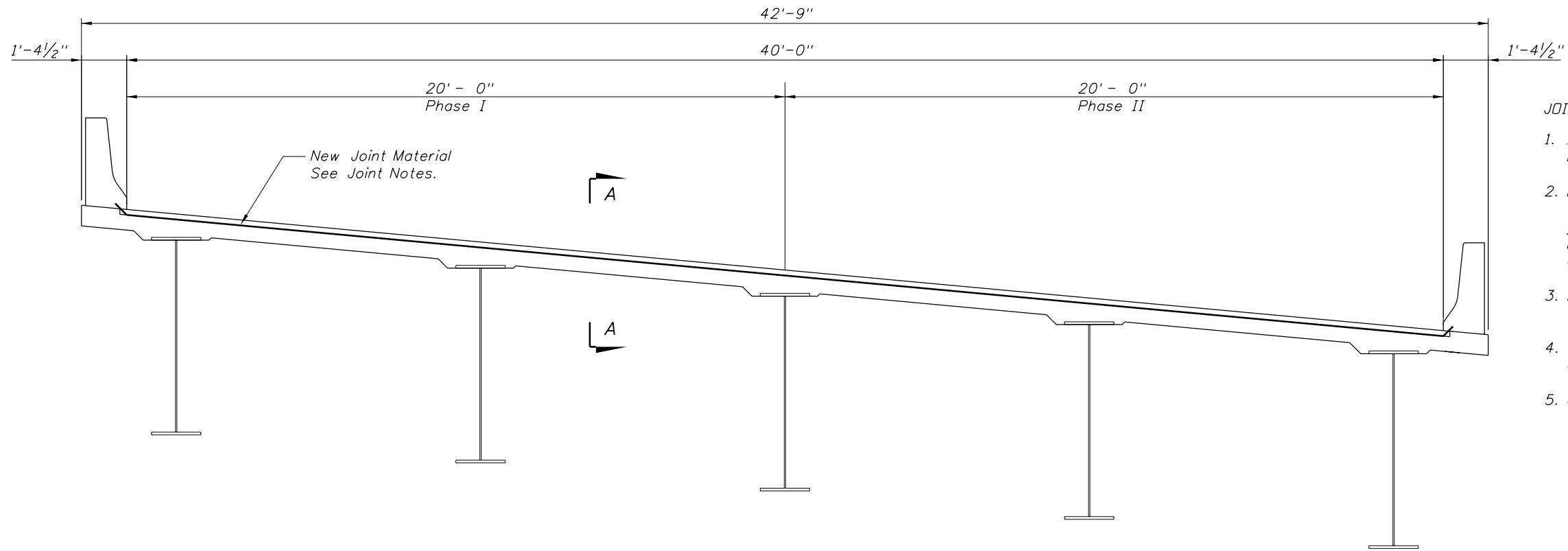
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CHECKED BY: KSS 09-10				
DESIGNED BY: TJF 02-10	ROAD NO. 681	COUNTY SARASOTA	FINANCIAL PROJECT ID 413817-1-52-01	PROJECT NAME: BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001
CHECKED BY: KSS 09-10	E.C. DRIVER			SHEET NO. B2-1

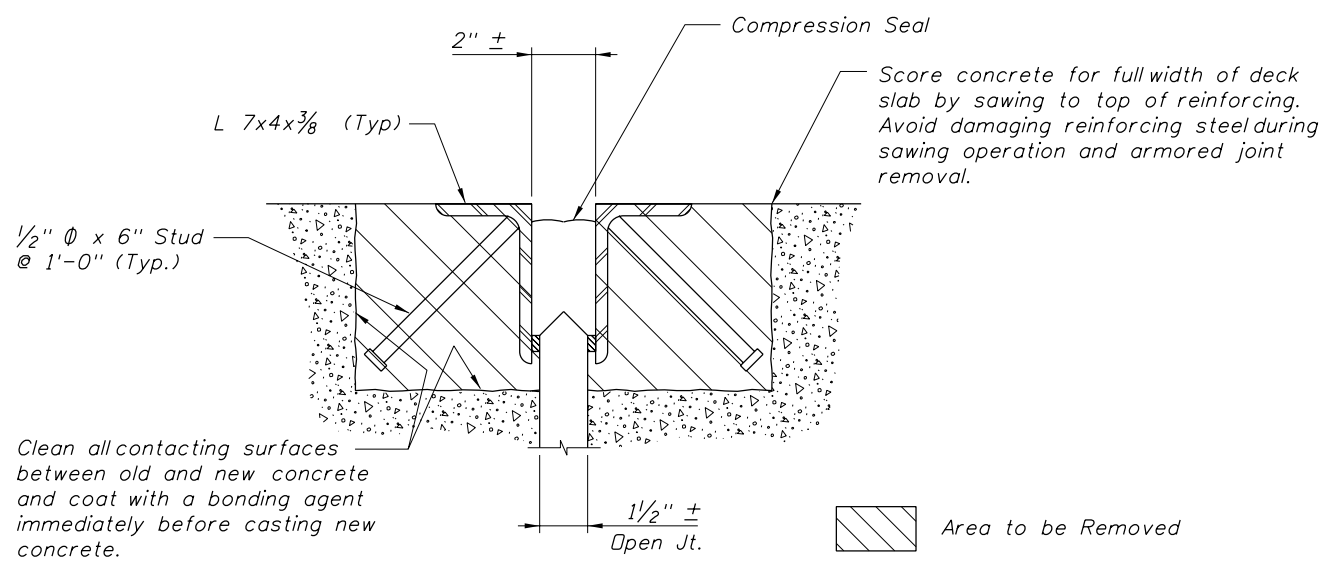
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- JOINT REPAIR NOTES:**
1. Install new deck joints in accordance with Index No. 21110.
 2. Dimension "A" as shown on Sheet No. 1 of 2 of the Index shall be taken as the width of the existing joint at the time the material is installed. The existing Expansion Joint width is approximately 1 1/2". This dimension shall be field verified by the Contractor.
 3. Adjustments to the joint at temperatures other than 70° are not required.
 4. Construct the joint repair in a phased sequence in accordance with the maintenance of traffic plans.
 5. Use Class II (Bridge Deck) concrete (fc' = 4,500 psi).

SECTION THRU BRIDGE
(Looking in Direction of Stationing)



SECTION A-A

ESTIMATED QUANTITIES				
ITEM	UNIT	QUANTITY		
		Phase I	Phase II	Total
Concrete for Joint Repair - Class II (Bridge Deck)	CY	0.8	0.8	1.6
Bridge Deck Poured Joint with Backer Rod	LF	40	40	80

REVISIONS					
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STATE OF FLORIDA
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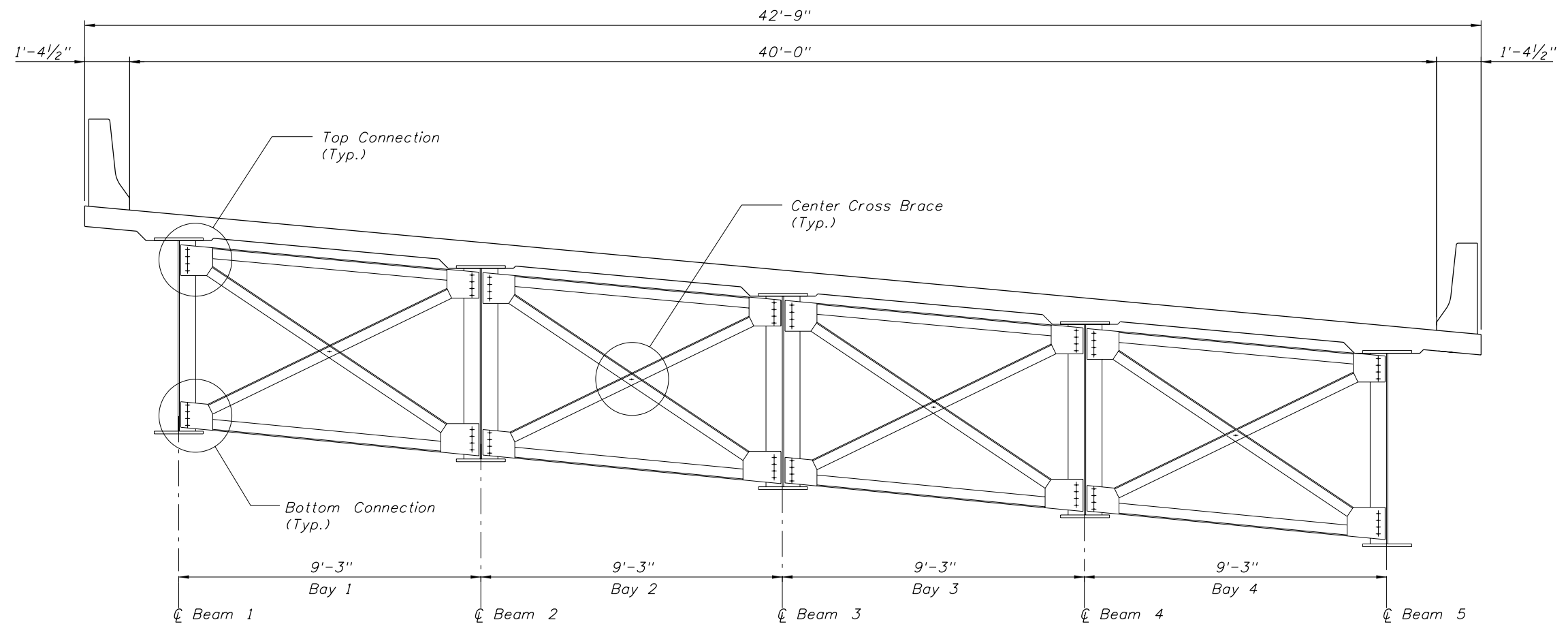
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
681	SARASOTA	413817-1-52-01

BRIDGE NO. 170098
DECK JOINT REPAIR DETAILS

BRIDGE REPAIRS AND PAINTING
NOS. 090016, 170098 AND 910001

REF. DWG. NO.
SHEET NO.
B2-2

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SECTION THRU BRIDGE
(Looking in Direction of Stationing)

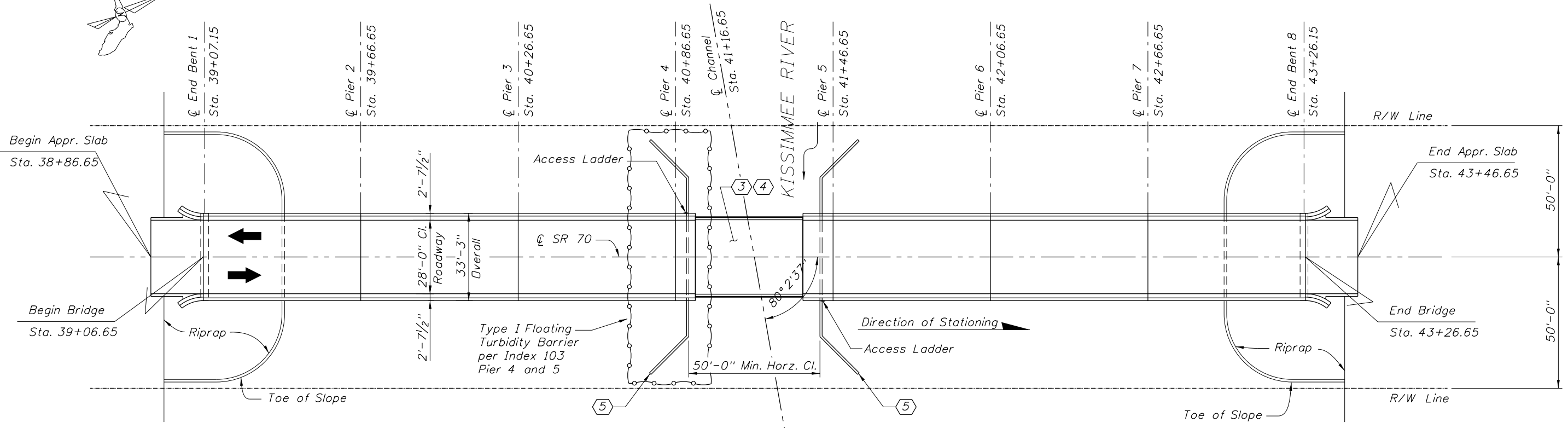
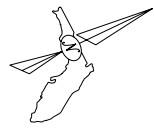
STEEL REPAIR TABLE			
Span Number	Bay Number	Beam Number	Loose Bolt Location/Number of Loose Bolts
1	1	2	Top Connection/2 of 4
1	1	2	Bottom Connection/1 of 4
1	2	3	Top Connection/2 of 4
1	3	3	Top Connection/4 of 4
2	1	2	Bottom Connection/2 of 4
2	4	5	Bottom Connection/2 of 4
3	1	2	Bottom Connection/1 of 4
3	2	2	Top Connection/3 of 4 and Bottom Connection/1 of 4
3	2	3	Top Connection/3 of 4 and Bottom Connection/3 of 4
3	4	5	Bottom Connection/2 of 4
4	1	1	Bottom Connection/2 of 4
4	3	-	Center Cross Brace/1 of 1
4	4	-	Center Cross Brace/1 of 1

NOTES:

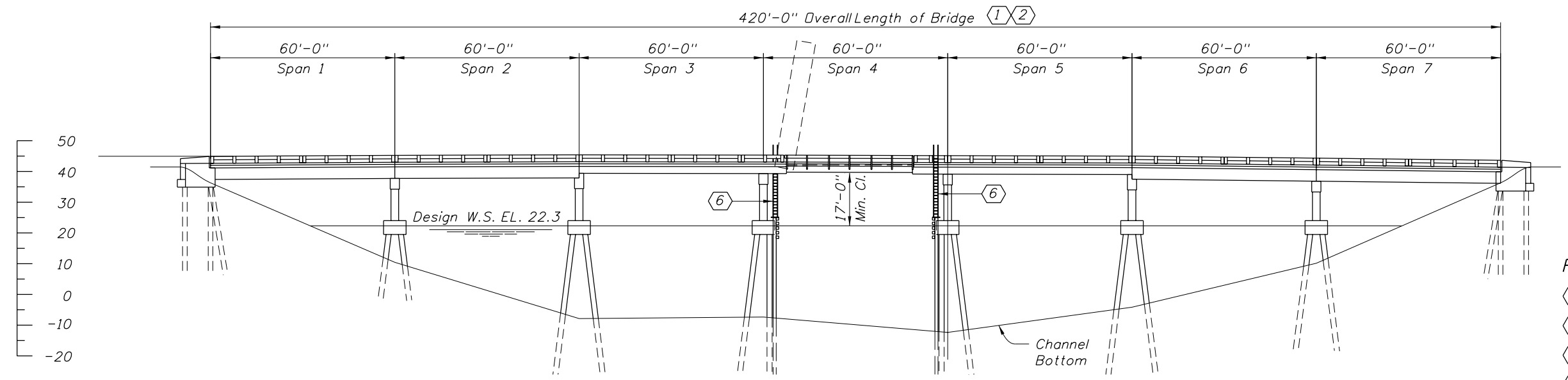
1. Tighten the loose bolts identified in the table prior to painting.
2. If the bolt cannot be tightened replace it with a new bolt of the same size. The new bolt shall be ASTM A325 (Type 1) high-strength. The bolt and corresponding nut and washer shall be mechanically galvanized in accordance with ASTM B695 Class 50.

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		SHEET NO.			
						681	SARASOTA	413817-1-52-01	BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001		B2-3			

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PLAN



ELEVATION

- REPAIR LEGEND**
- ① Clean and Seal Open Deck Joints
 - ② Clean and Paint Structural Steel
 - ③ Replace Open Steel Grid Deck
 - ④ Repair Structural Steel
 - ⑤ Repair Fender System
 - ⑥ Replace Fender Access Ladder

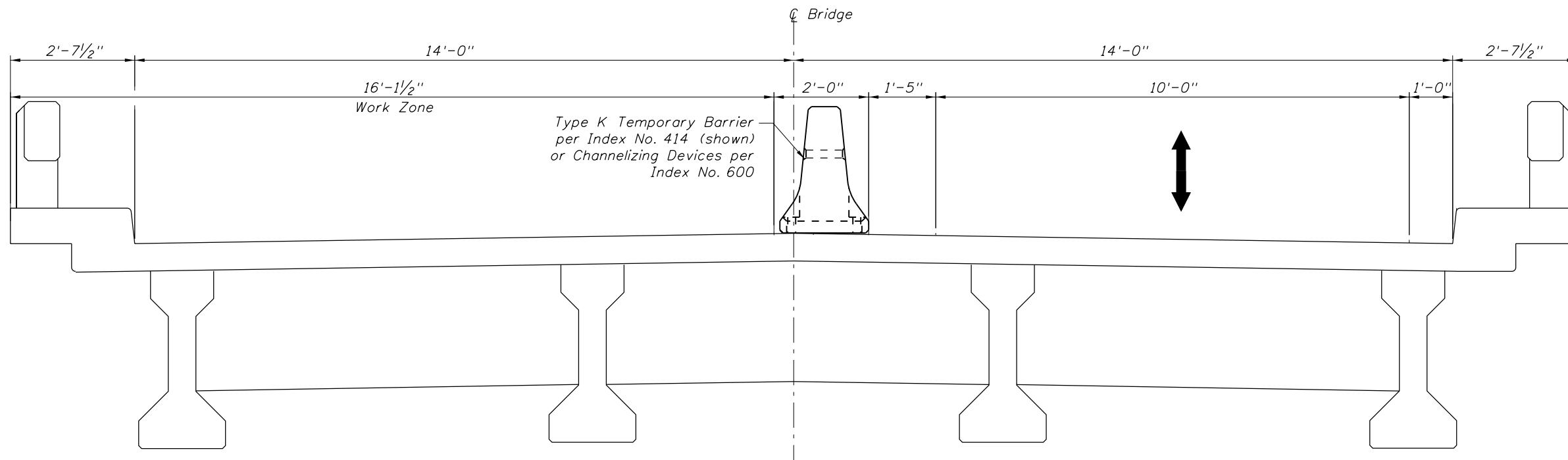
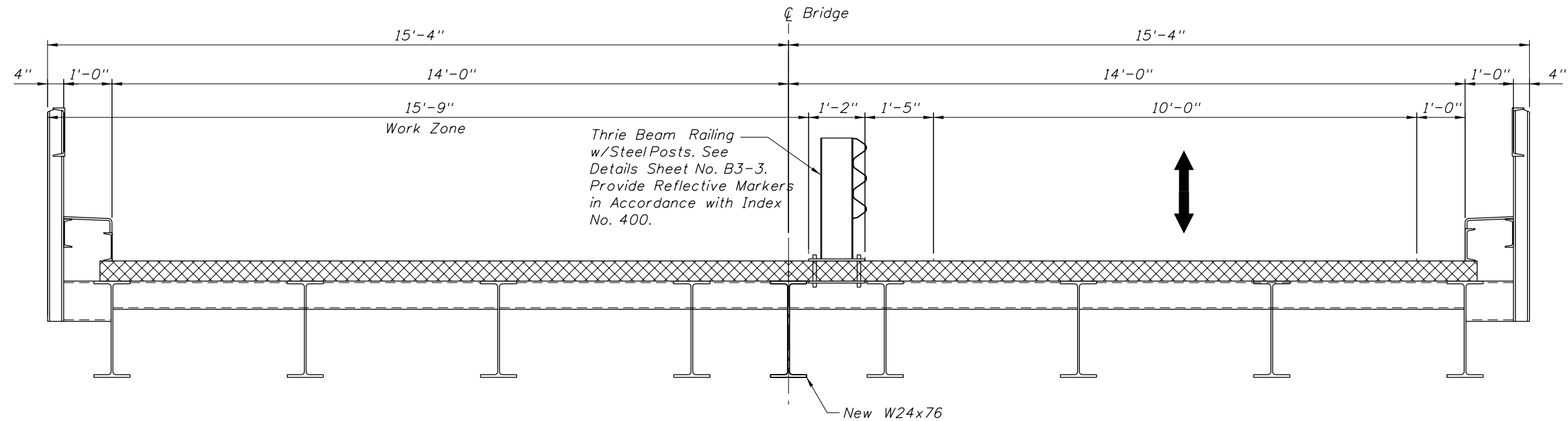
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CHECKED BY: KSS 09-10				
DESIGNED BY: TJF 02-10	ROAD NO. 70	COUNTY OKEECHOBEE	FINANCIAL PROJECT ID 413817-1-52-01	PROJECT NAME: BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001
CHECKED BY: KSS 09-10	E.C. DRIVER			SHEET NO. B3-1

DATE	BY	DESCRIPTION

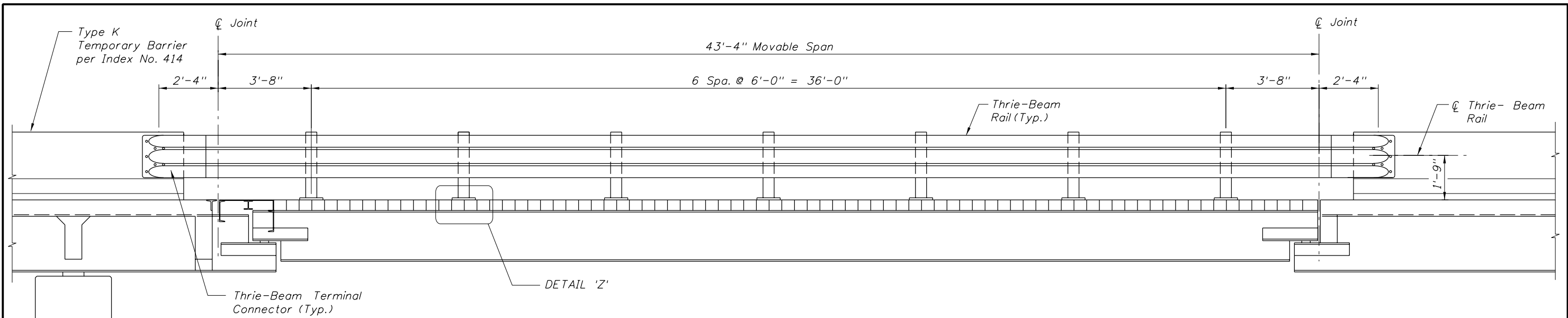
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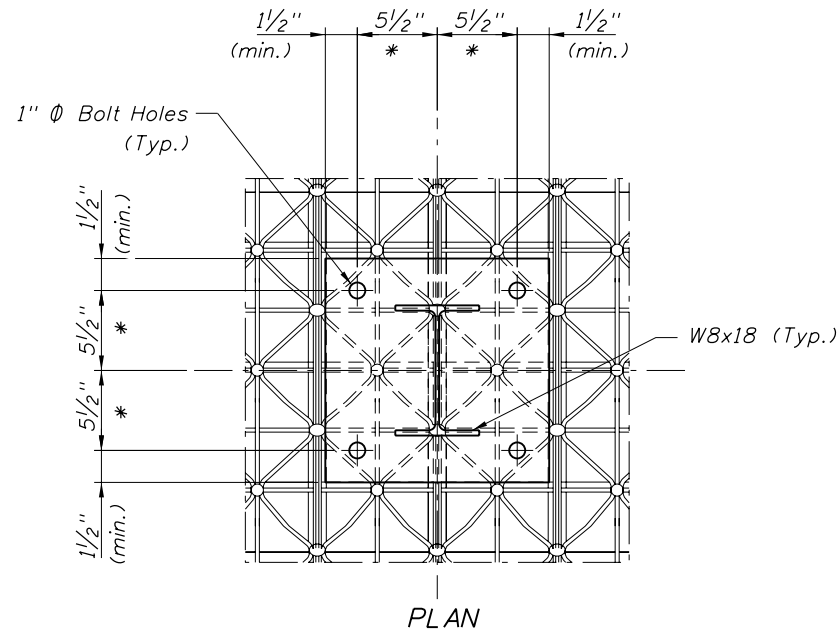
- NOTES:
1. View looking in direction of stationing showing westbound lane closure. Eastbound lane closure opposite hand.
 2. See Traffic Control Plans for additional details.

REVISIONS						TIMOTHY J. FARRELL, P.E. P.E. License No: 37264 E. C. DRIVER & ASSOCIATES, INC. 500 N. Westshore Blvd. Suite 500 Tampa, Florida 33609 Certificate of Authorization No. 3838	DRAWN BY: LMM 02-10 CHECKED BY: KSS 09-10 DESIGNED BY: TJF 02-10 CHECKED BY: KSS 09-10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: BRIDGE NO. 910001 TEMPORARY BARRIER DETAILS - SHEET 1 OF 2	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							70	OKEECHOBEE	413817-1-52-01	BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001	B3-2	

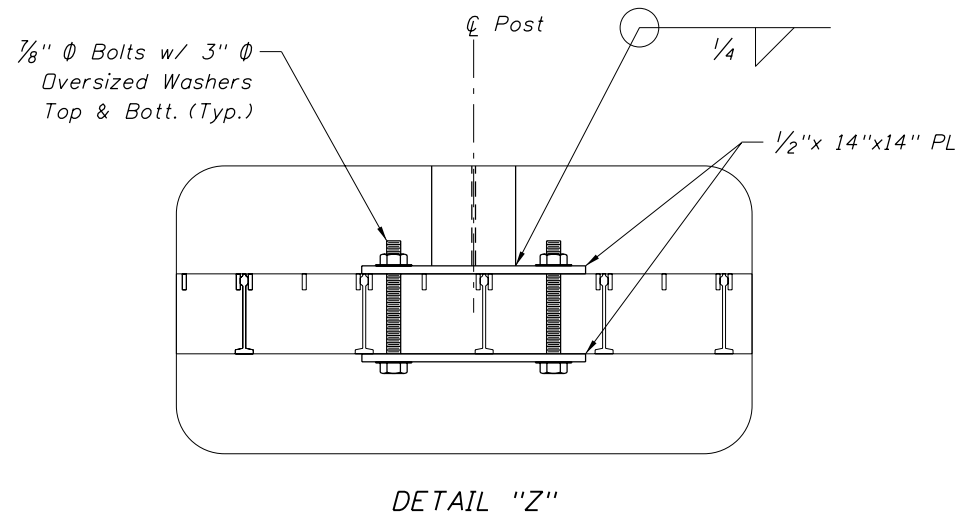
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TEMPORARY BARRIER ELEVATION
 (Showing Movable Span and Adjacent Spans)



* Contractor shall field verify that location of anchor bolts for Temporary Barrier Post base plates do not interfere with grid deck bars. Adjust spacing as required.



DETAIL "Z"

NOTES:

1. For Details of Thrie-Beam Guardrail, see FDOT Design Standards Index No. 400.
2. Thrie-Beam Guardrail to be relocated from one phase to the other.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

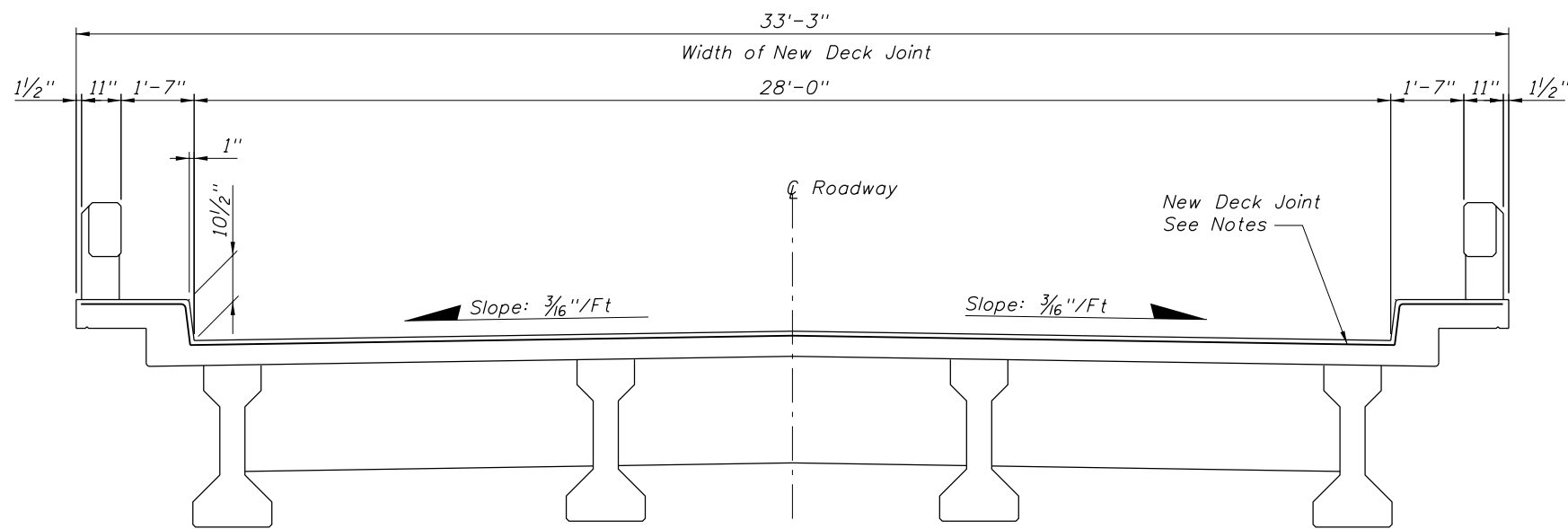
TIMOTHY J. FARRELL, P.E.
 P.E. License No: 37264
E. C. DRIVER & ASSOCIATES, INC.
 500 N. Westshore Blvd. Suite 500
 Tampa, Florida 33609
 Certificate of Authorization No. 3838

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LMM 02-10
 CHECKED BY:
KSS 09-10
 DESIGNED BY:
TJF 02-10
 CHECKED BY:
KSS 09-10

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
70	OKEECHOBEE	413817-1-52-01

SHEET TITLE:		REF. DWG. NO.
BRIDGE NO. 910001 TEMPORARY BARRIER DETAILS - SHEET 2 OF 2		
PROJECT NAME:		SHEET NO.
BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001		B3-3



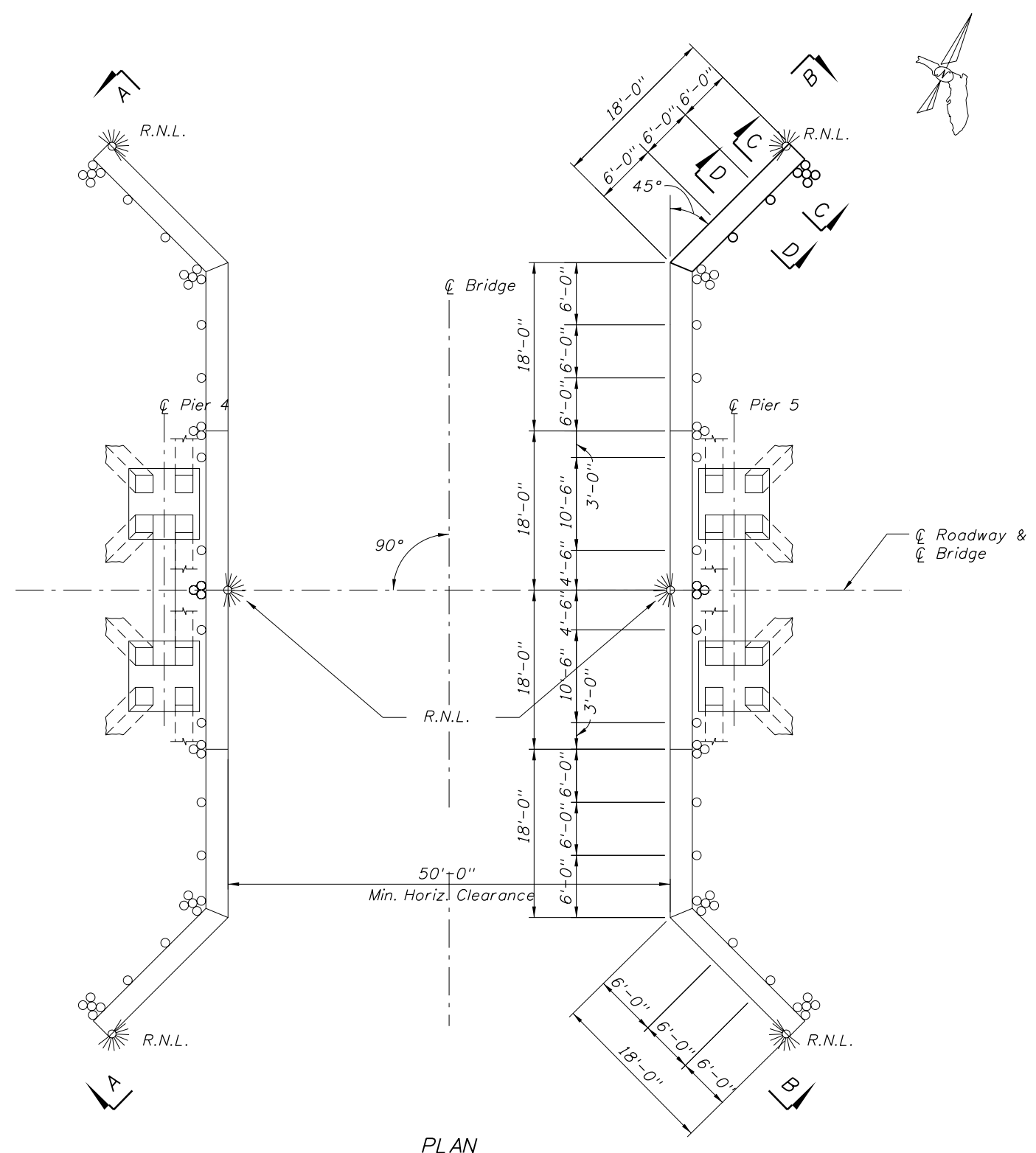
EXPANSION DECK JOINT DETAIL

JOINT REPAIR NOTES:

1. Install the new deck joints in accordance with Index No. 21110.
2. Dimension "A" as shown on Sheet No. 1 of 2 of the Index shall be taken as the width of the existing joint at the time the material is installed. The existing Expansion Joint widths vary from approximately 1" to approximately 2". This dimension shall be field verified by the Contractor.
3. Adjustments to the joint at temperatures other than 70° are not required.
4. Remove existing seal and clean concrete surface before placing the new deck joints. Thoroughly clean joint surfaces which will contact backer rod and joint by abrasive blasting. Ensure all old joint sealers, adhesives, grease and contaminants are removed. Blow down cleaned areas with clean, compressed air. Apply sealer to concrete surfaces in accordance with sealer manufacturer's requirements before installing backing rod.

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		SHEET NO.
						70	OKEECHOBEE	413817-1-52-01	BRIDGE NO. 910001 DECK JOINT REPAIR DETAILS				
											B3-4		



BILL OF TREATED STRUCTURAL TIMBER FOR TWO FENDERS

MARK	SIZE	LENGTH	NO. REQ'D.	F.B.M.	CUTTING DIAGRAMS
A	10"x10"	18'-0"	13	1,950	22° 30'
B	10"x10"	18'-0"	4	600	
C	8"x8"	1'-0"	8	43	
D	3"x8"	18'-0"	1	36	
E	2"x6"	2'-6"	31	78	
TOTAL				2,707	

*** ESTIMATED QUANTITIES**

ITEM	UNIT	QUANTITY
Treated Structural Timber	M.B.	2.7
Treated Timber Piling	LF	350
Wrap Pile Clusters	EA.	2

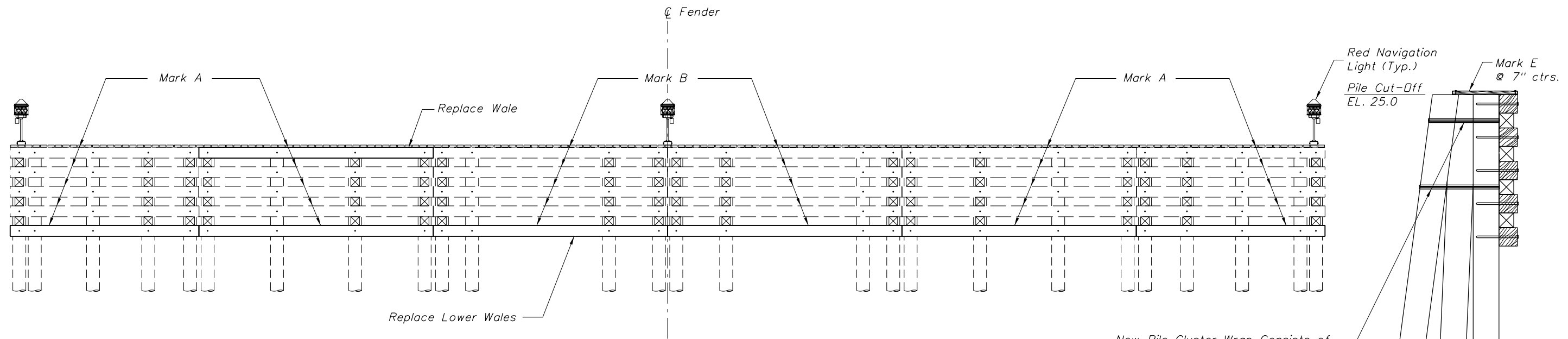
* Estimated Quantities are for Two Fenders

- NOTES:**
1. Replace northeast flared end and deteriorated wales as noted.
 2. Catwalk not shown for clarity.
 3. R.N.L. denotes Red Navigation Light.
 4. For View A-A and B-B see Sheet No. B3-6.
 5. For Sections C-C and D-D, see Sheet No. B3-6.
 6. Replace fender access ladder. See Sheet No. B3-7.

PLAN

REVISIONS						TIMOTHY J. FARRELL, P.E. P.E. License No: 37264 E. C. DRIVER & ASSOCIATES, INC. 500 N. Westshore Blvd. Suite 500 Tampa, Florida 33609 Certificate of Authorization No. 3838	DRAWN BY: LMM 03-10 CHECKED BY: KSS 09-10 DESIGNED BY: TJF 03-10 CHECKED BY: KSS 09-10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: BRIDGE NO. 910001 FENDER SYSTEM PLAN		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		SHEET NO.
						70	OKEECHOBEE	413817-1-52-01	BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001		B3-5		

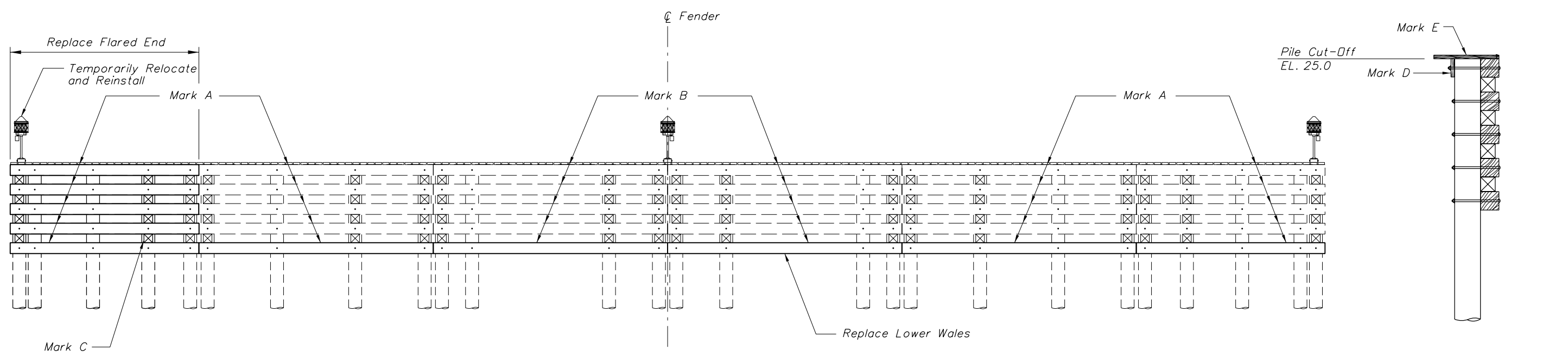
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VIEW A-A
Developed West Fender System

New Pile Cluster Wrap Consists of
3 Wraps of Wire Rope Secured With
3 Standard Cable Clamps at 1/4"
Minimum Spacing

SECTION C-C

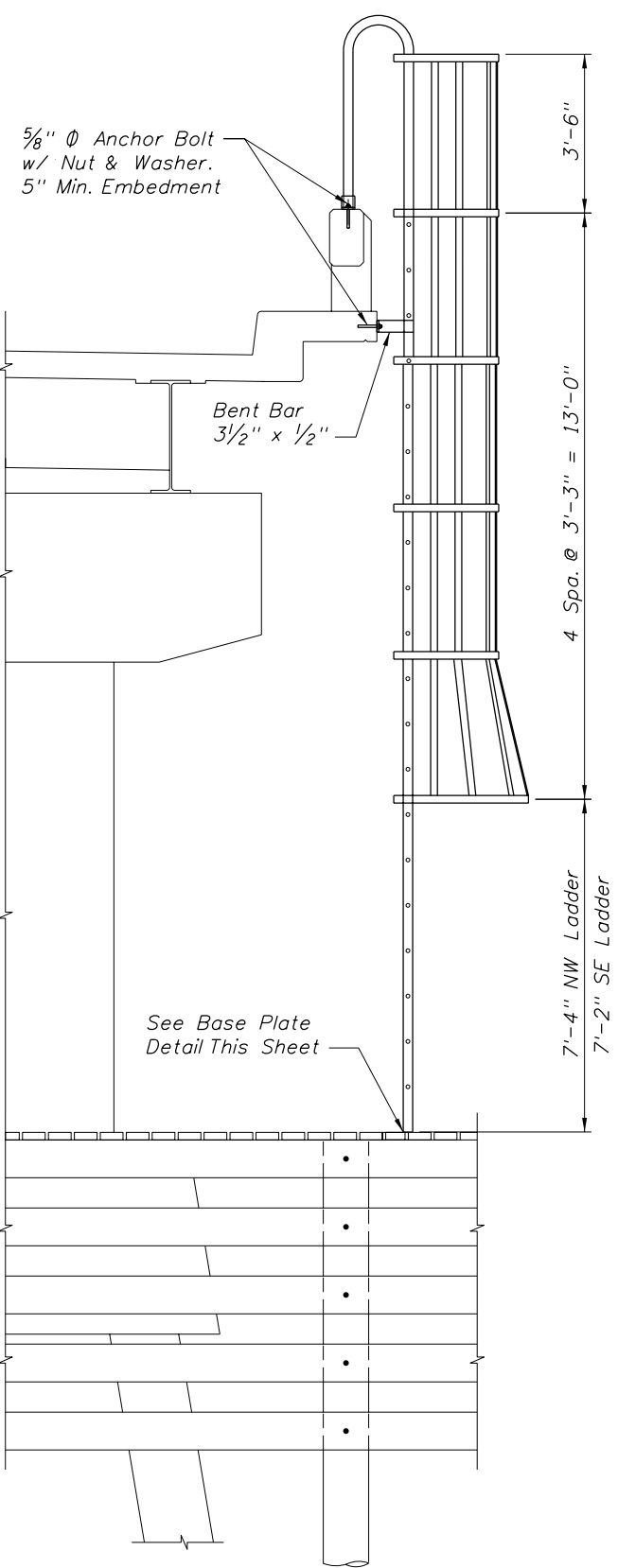


VIEW B-B
Developed East Fender System

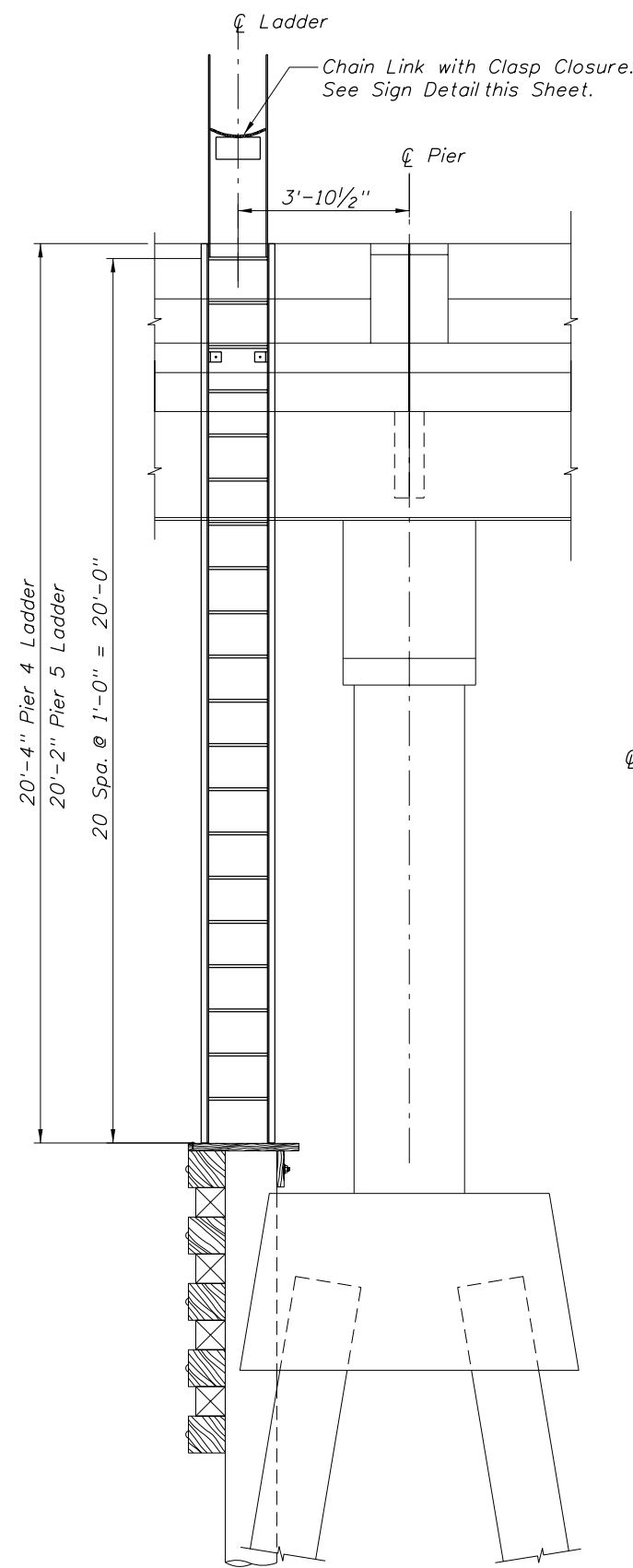
SECTION D-D

REVISIONS						TIMOTHY J. FARRELL, P.E. P.E. License No: 37264 E. C. DRIVER & ASSOCIATES, INC. 500 N. Westshore Blvd. Suite 500 Tampa, Florida 33609 Certificate of Authorization No. 3838	DRAWN BY: LMM 03-10 CHECKED BY: KSS 09-10 DESIGNED BY: T.J.F 03-10 CHECKED BY: KSS 09-10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	BRIDGE NO. 910001 FENDER SYSTEM ELEVATIONS AND DETAILS		
						70	OKEECHOBEE	413817-1-52-01	BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001		B3-6		

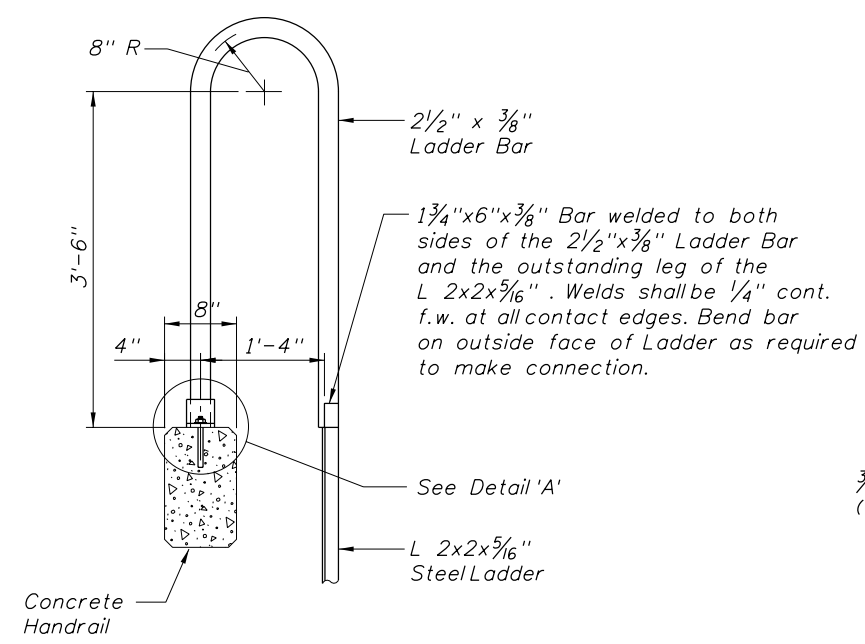
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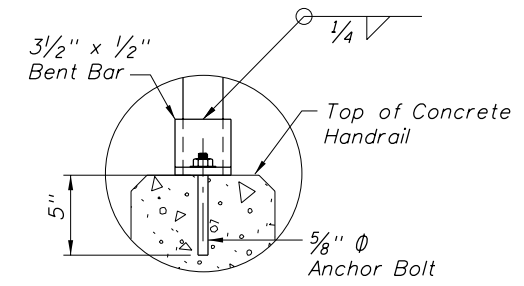
FRONT ELEVATION



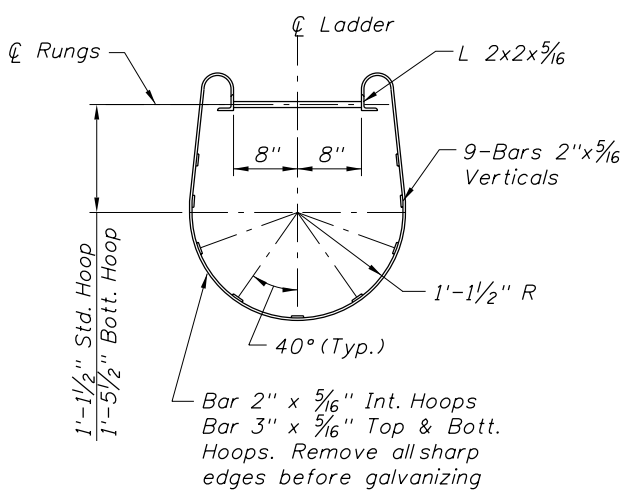
SIDE ELEVATION
(Ladder Cage Not Shown for Clarity)



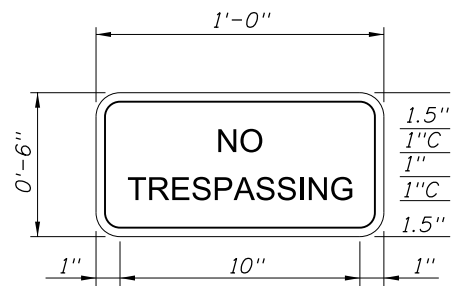
DETAIL AT TOP OF LADDER



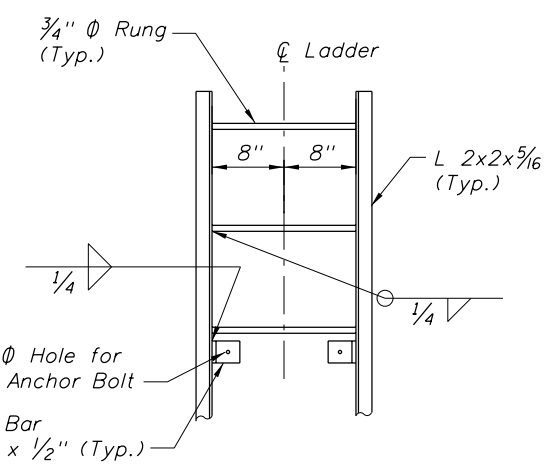
DETAIL 'A'



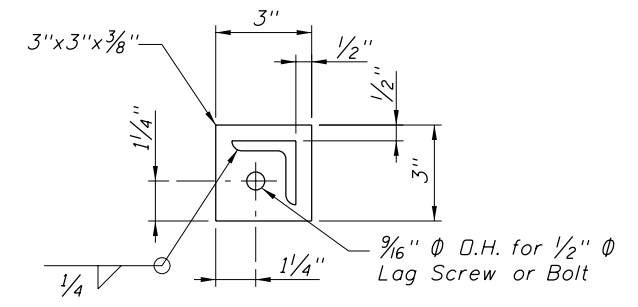
SECTION THRU LADDER CAGE



SIGN DETAIL
(2 Required)



LADDER DETAIL



BASE PLATE DETAIL

*ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
Ladders and Platforms	LB	1,407

*Estimated Quantities Include Ladders at Piers 4 and 5.

NOTE:

All steel for ladders including plates, shapes, bars, nuts and washers shall be hot dip galvanized in accordance with requirements of A.S.T.M. A-123. Welding of parts shall be done prior to galvanizing.

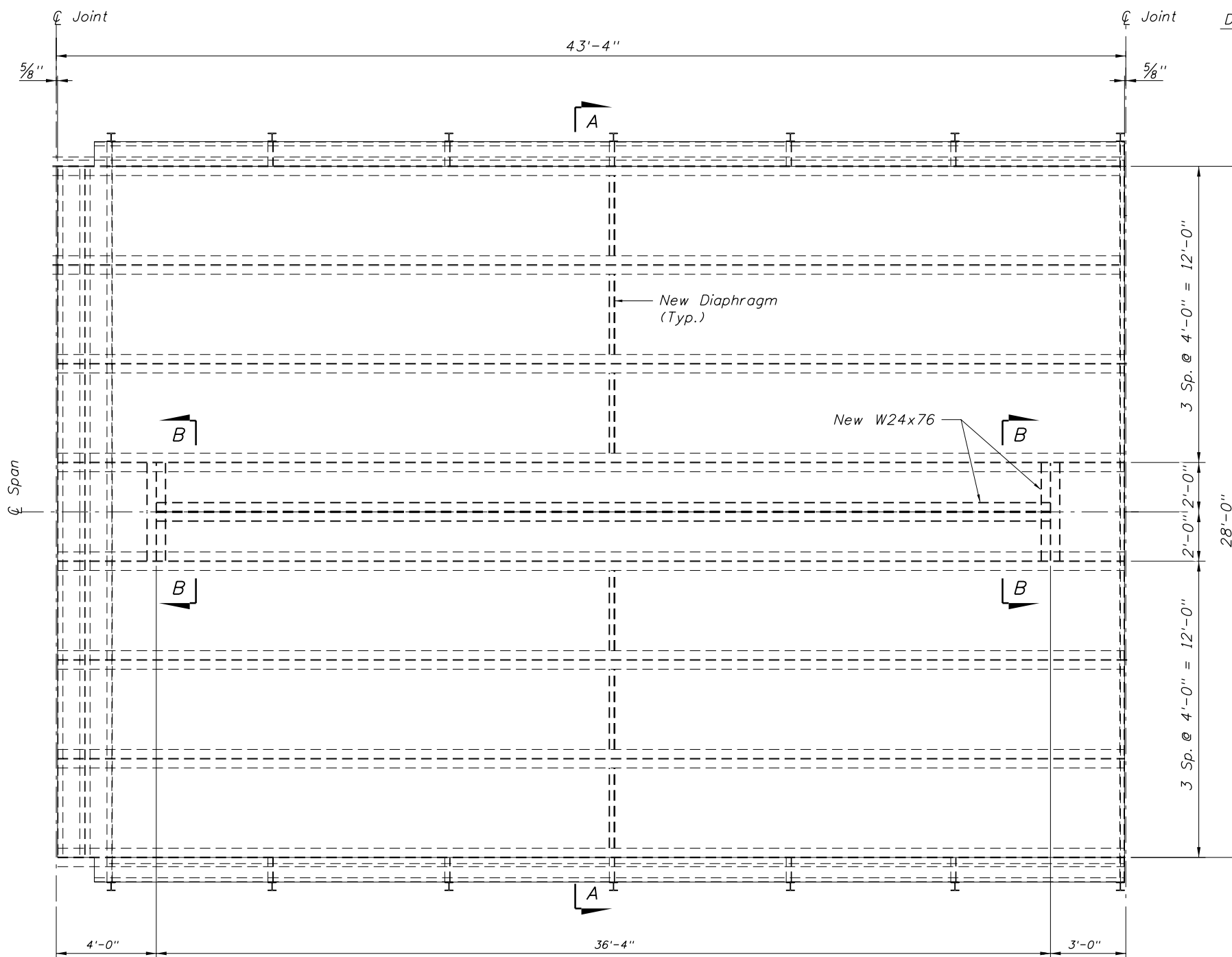
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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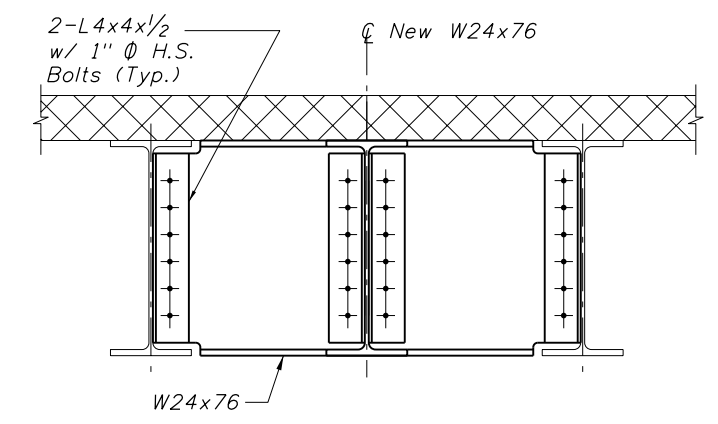
DRAWN BY: LMM 03-10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	
CHECKED BY: KSS 09-10	ROAD NO.	COUNTY
DESIGNED BY: TJF 03-10	70	OKEECHOBEE
CHECKED BY: KSS 09-10	FINANCIAL PROJECT ID 413817-1-52-01	

SHEET TITLE:	BRIDGE NO. 910001 FENDER ACCESS LADDER DETAILS	REF. DWG. NO.
PROJECT NAME:	BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001	SHEET NO. B3-7

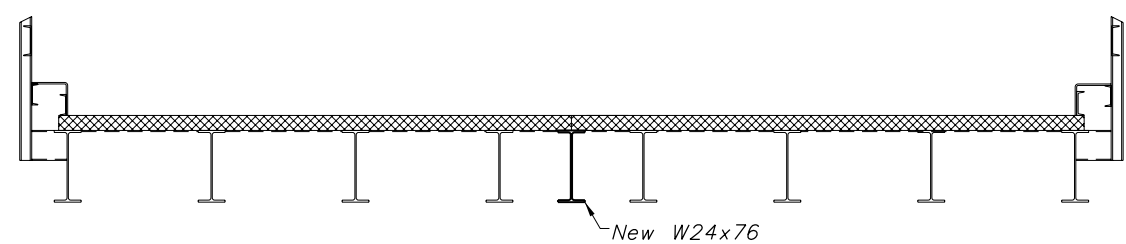
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FRAMING PLAN



SECTION B-B



SECTION THRU MOVABLE SPAN

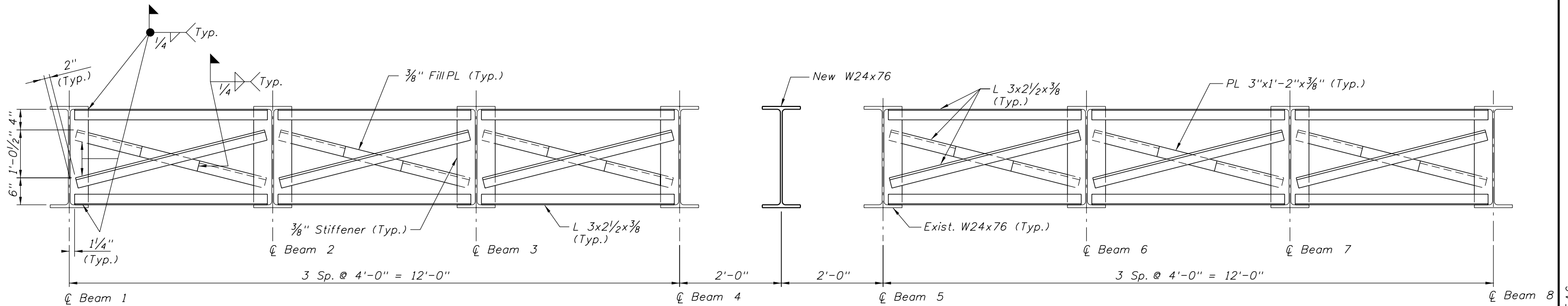
*ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
Structural Steel	LB	4,528

*Quantity Includes Framing Steel this Sheet and Repair Steel Sheet No. B3-9.

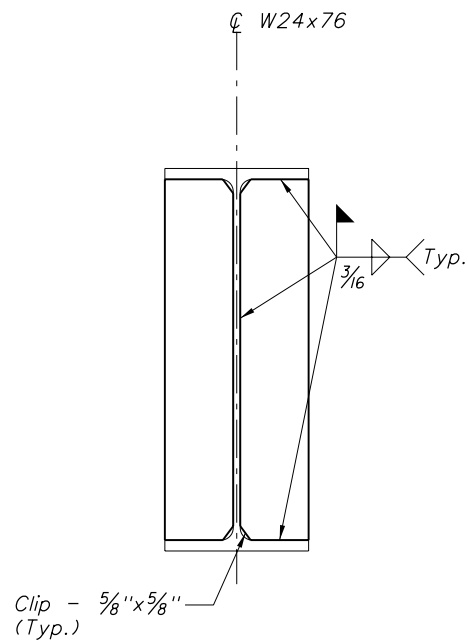
- NOTES:
- For Section A-A see Sheet No. B3-9.

REVISIONS						TIMOTHY J. FARRELL, P.E. P.E. License No: 37264 E. C. DRIVER & ASSOCIATES, INC. 500 N. Westshore Blvd. Suite 500 Tampa, Florida 33609 Certificate of Authorization No. 3838	DRAWN BY: LMM 04-10 CHECKED BY: KSS 09-10 DESIGNED BY: TJF 04-10 CHECKED BY: KSS 09-10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		
							70	OKEECHOBEE	413817-1-52-01	BRIDGE NO. 910001 BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001		B3-8	

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SECTION A-A
(Steel Grid Deck Not Shown for Clarity)



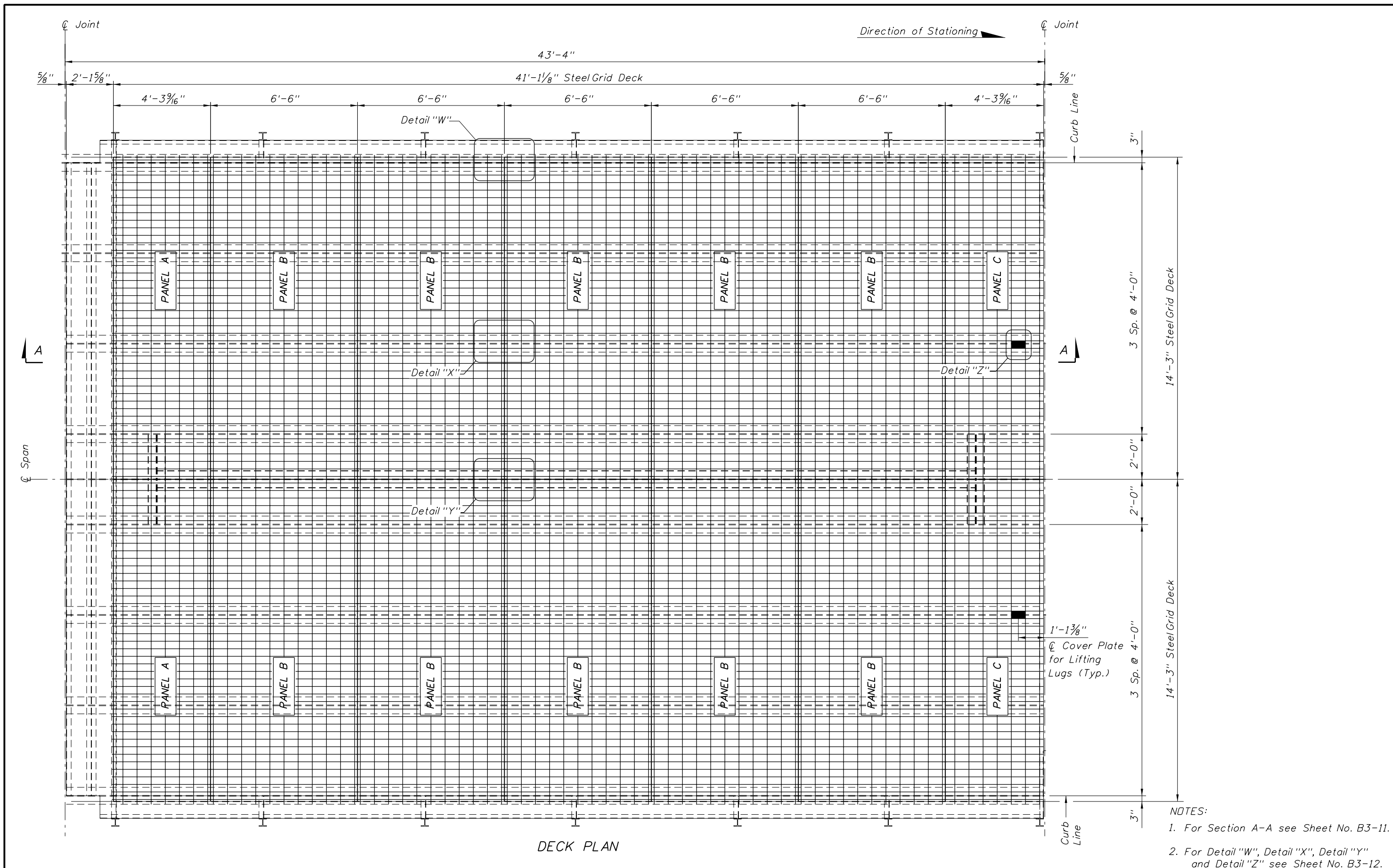
STIFFENER DETAIL

MOVABLE SPAN REPAIRS:

1. Replace the existing diaphragms including bracing and stiffeners except as noted. See details this sheet.
2. Shim bearing at east end of span for Beam No. 2, 4, 5, and 6.
3. Repair 8 cracked fillet welds underneath the traffic plate at the west end of the span.

REVISIONS						TIMOTHY J. FARRELL, P.E. P.E. License No: 37264 E. C. DRIVER & ASSOCIATES, INC. 500 N. Westshore Blvd. Suite 500 Tampa, Florida 33609 Certificate of Authorization No. 3838	DRAWN BY: LMM 03-10 CHECKED BY: KSS 09-10 DESIGNED BY: TJF 03-10 CHECKED BY: KSS 09-10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	SHEET NO.
						70	OKEECHOBEE	413817-1-52-01	BRIDGE NO. 910001 MOVABLE SPAN REPAIRS			
									BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001	B3-9		

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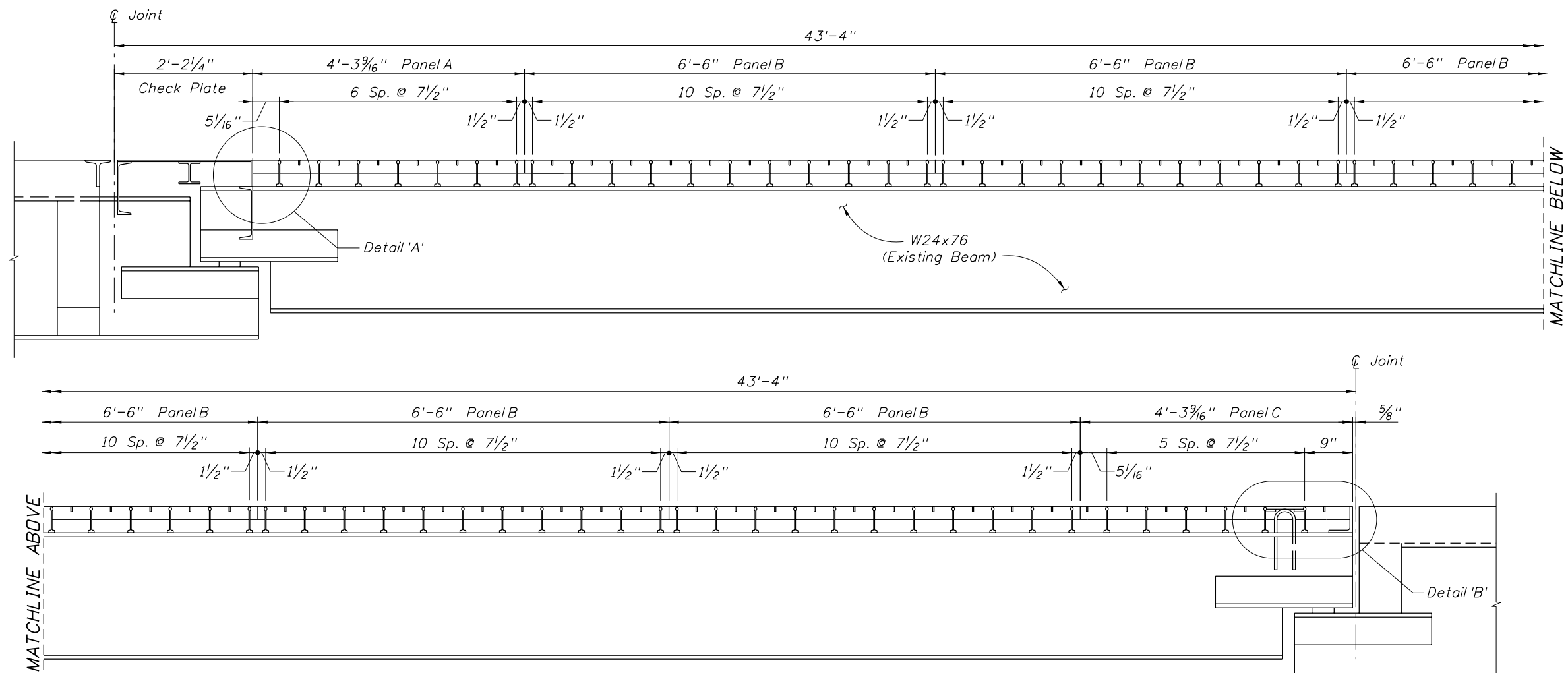
- NOTES:**
1. For Section A-A see Sheet No. B3-11.
 2. For Detail "W", Detail "X", Detail "Y" and Detail "Z" see Sheet No. B3-12.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TIMOTHY J. FARRELL, P.E.
P.E. License No: 37264
E. C. DRIVER & ASSOCIATES, INC.
500 N. Westshore Blvd. Suite 500
Tampa, Florida 33609
Certificate of Authorization No. 3838

<small>DRAWN BY:</small> LMM 02-10 <small>CHECKED BY:</small> KSS 09-10 <small>DESIGNED BY:</small> TJF 02-10 <small>CHECKED BY:</small> KSS 09-10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
<small>ROAD NO.</small> 70	<small>COUNTY</small> OKEECHOBEE	<small>FINANCIAL PROJECT ID</small> 413817-1-52-01	<small>PROJECT NAME:</small> BRIDGE NO. 910001 MOVABLE SPAN DECK PLAN

<small>DATE</small> 1/4/2011	<small>TIME</small> 9:27:26 AM	<small>FILE</small> F:\Projects\4138171520\struct\B3SuperstDeckPlan01.dgn	<small>REF. DWG. NO.</small>
<small>SHEET NO.</small> B3-10	<small>NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 66B5-23.003, F.A.C.</small>		

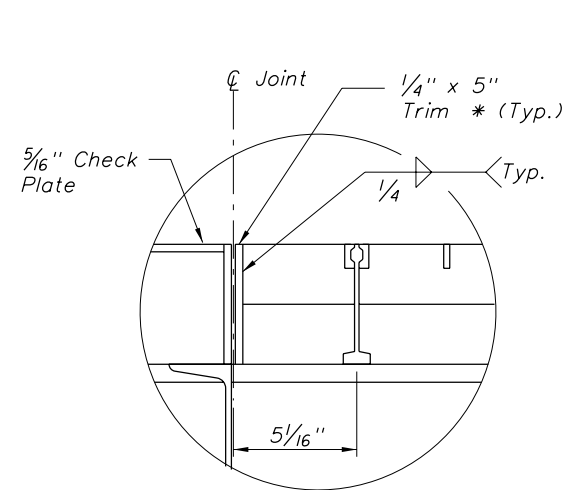


SECTION A-A

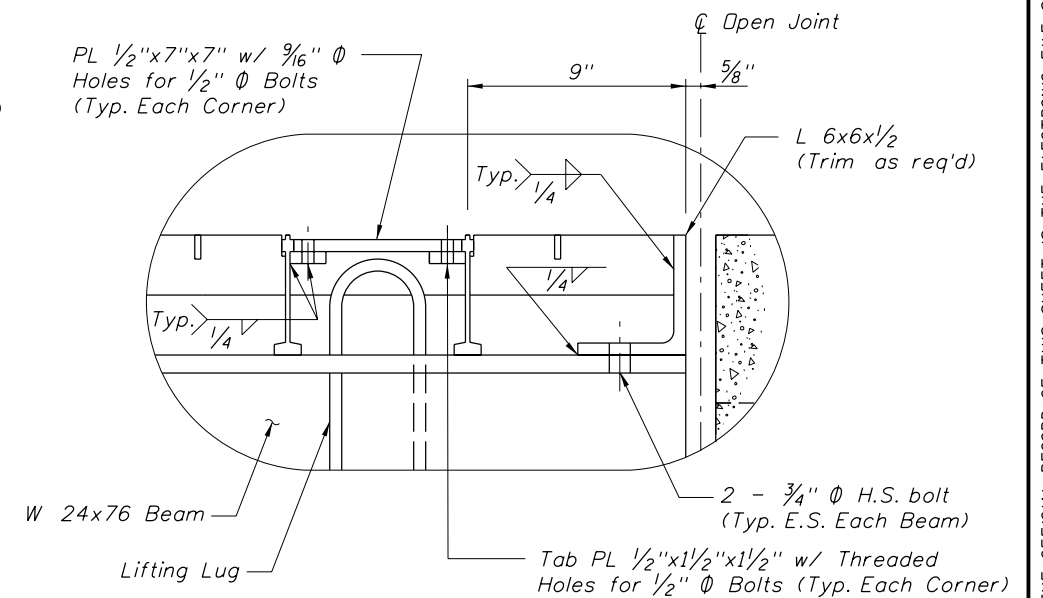
5 3/16" STEEL OPEN GRID DECK:

- 5 3/16" deep x 5.6 lb. per ft. Main Bars at 7 1/2" o.c.
- One 1/4" x 1" Supplemental Bar between the Main Bars.
- 1/4" x 2 1/2" Cross Bars at 4" o.c.
- 1/4" x 1" Diagonal Bars connected alternately to the Main Bars and Supplemental Bars.
- 1/4" x 5" End Trim Bars.
- 3/16" deep x 3/8" wide serrations at 3/4" o.c. on Supplemental Bars, Cross Bars and Diagonal Bars.
- 3/16" deep x 3/8" wide serrations at 1 1/4" o.c. on Main Bars.
- Mat'l: ASTM A709 Grade 36 Steel.
- Hot dip galvanize Panels per ASTM A123 after fabrication.
- Main Bars, Supplemental Bars, Cross Bars and Diagonal Bars interconnected by welding per Manufacturer's standards.
- Unit weight of 21 lb/sq. ft. ± 1.5 lbs/sq. ft. after fabrication and galvanizing.

STEEL GRID PANEL TOLERANCES	
Panel Width	+0, -1/8"
Panel Length	± 1/4"
Bar Offset	± 1/16"
Squareness	± 1/2" Measured diagonally
Camber - Width	0.005 x Width
Camber - Length	0.003 x Length
Sweep	± 1/8"
Main Bar Vertically	± 1/16"
Form Pan Location	± 1/8"



DETAIL 'A'



DETAIL 'B'

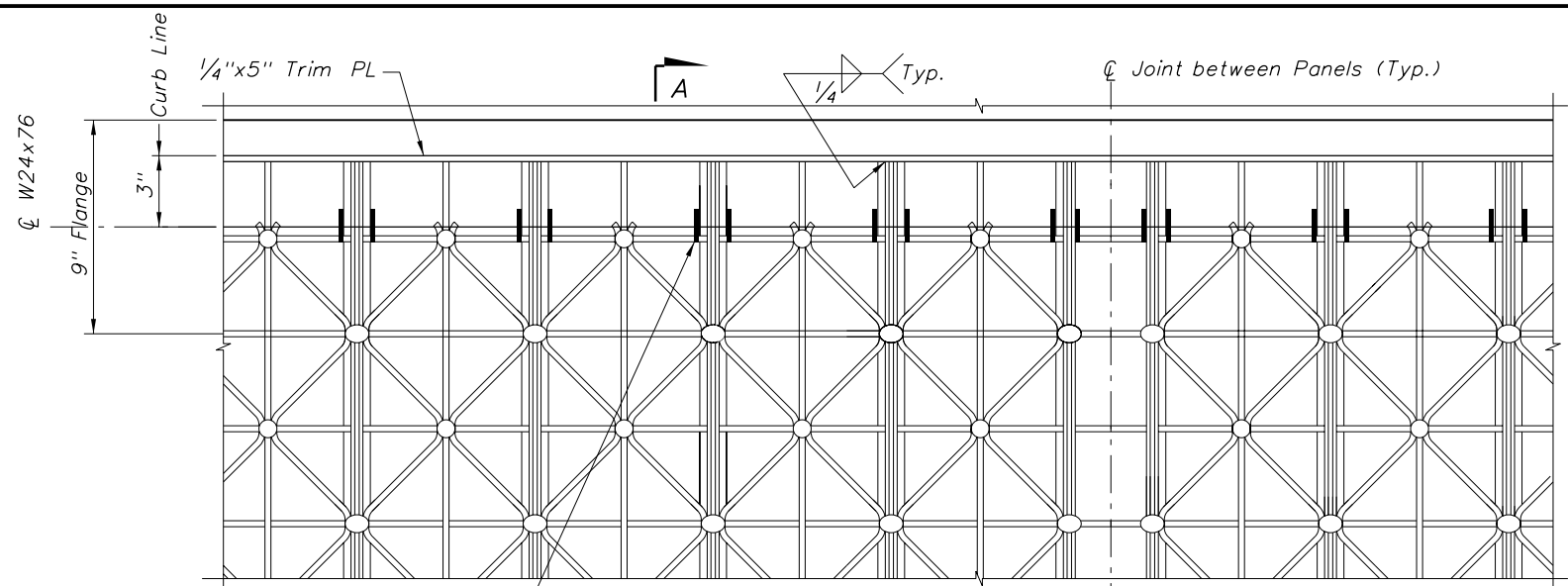
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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P.E. License No: 37264
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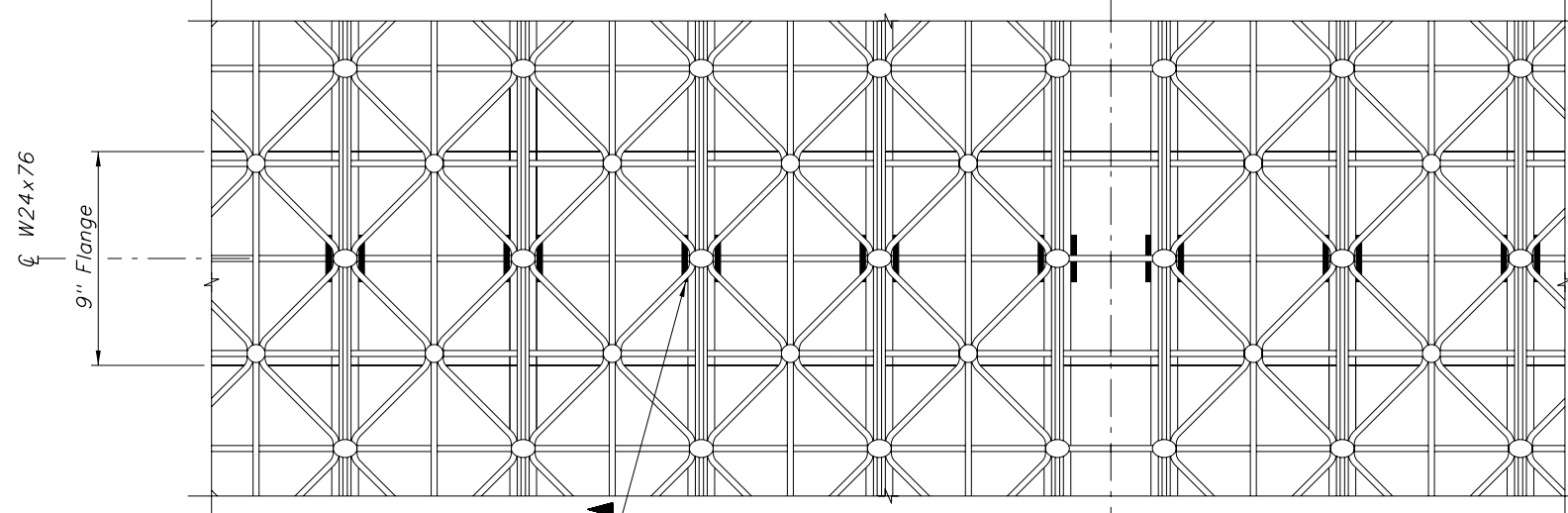
DRAWN BY: LMM 02-10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
CHECKED BY: KSS 09-10	ROAD NO.	COUNTY	FINANCIAL PROJECT ID
DESIGNED BY: TJF 02-10	70	OKEECHOBEE	413817-1-52-01
CHECKED BY: KSS 09-10			

SHEET TITLE:	BRIDGE NO. 910001 MOVABLE SPAN DECK DETAILS - SHEET 1 OF 2	REF. DWG. NO.
PROJECT NAME:	BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001	SHEET NO. B3-11

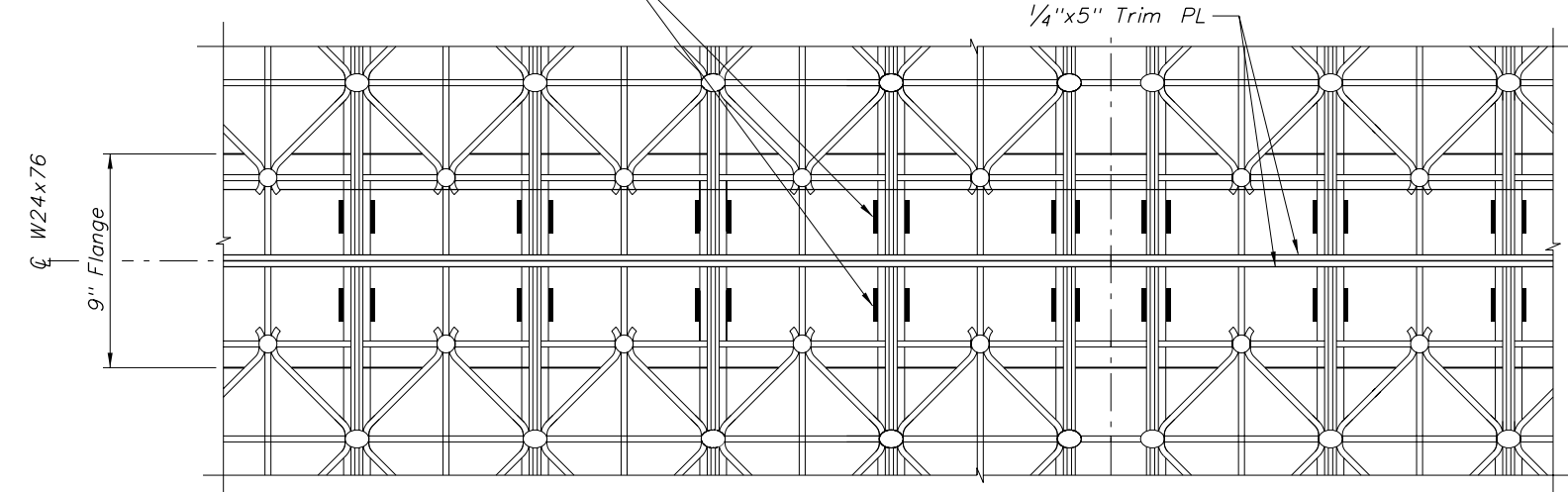
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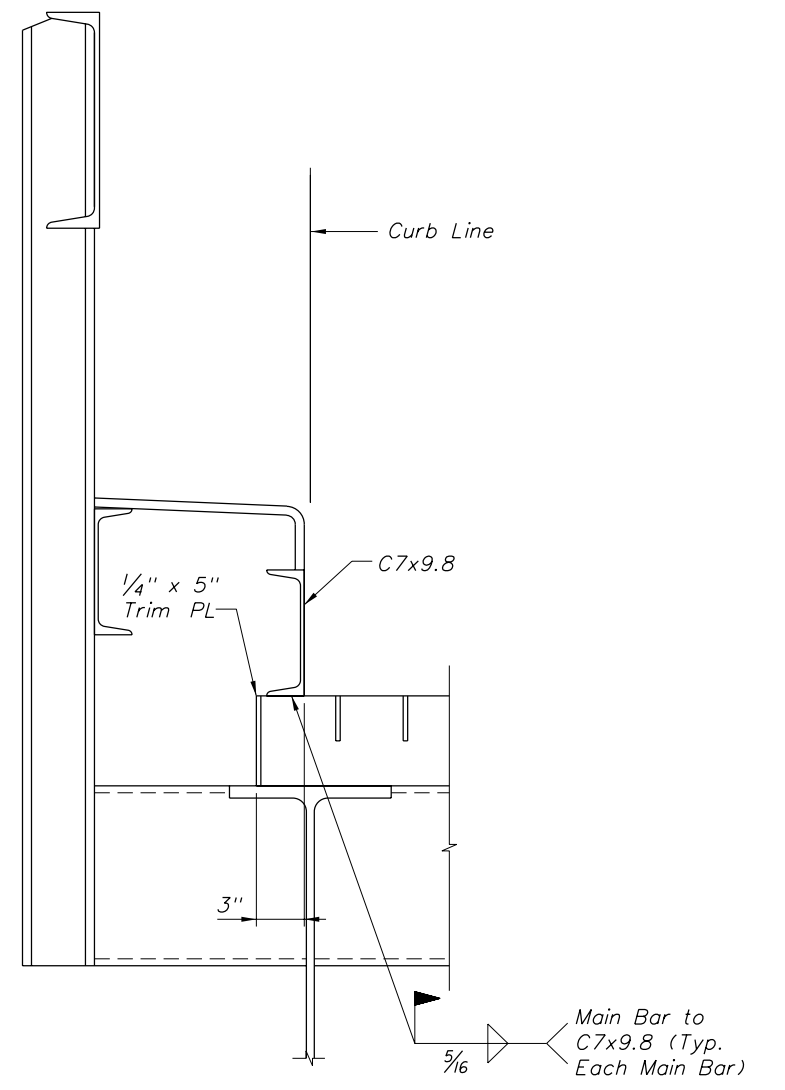
Main Bar to W24x76 (Typ. Each Main Bar) 5/16 1/2
PART DETAIL "W"
Joint between Panels (Typ.)



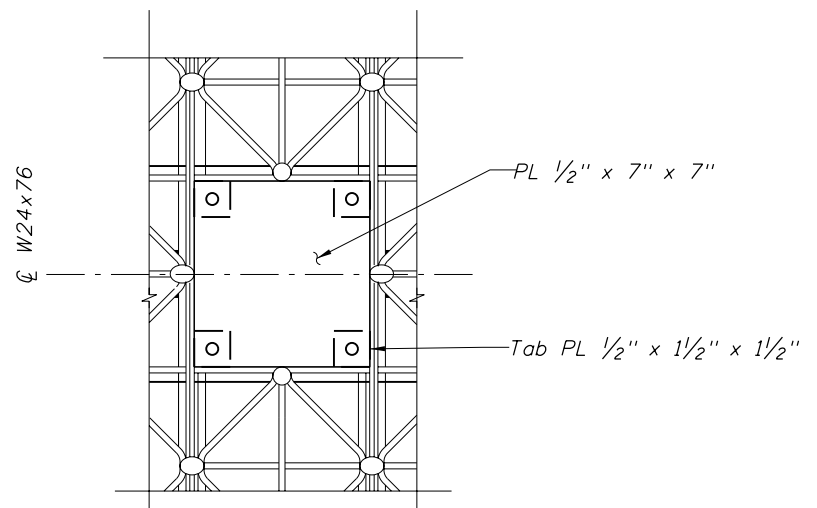
Main Bar to W24x76 (Typ. Each Main Bar) 5/16 1/2
PART DETAIL "X"
Joint between Panels (Typ.)



PART DETAIL "Y"



SECTION A-A



PART DETAIL "Z"

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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500 N. Westshore Blvd. Suite 500
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Certificate of Authorization No. 3838

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CHECKED BY: KSS 09-10
DESIGNED BY: T.J.F 02-10
CHECKED BY: KSS 09-10

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
70	OKEECHOBEE	413817-1-52-01

SHEET TITLE:
BRIDGE NO. 910001
MOVABLE SPAN DECK DETAILS - SHEET 2 OF 2
PROJECT NAME:
BRIDGE REPAIRS AND PAINTING
NOS. 090016, 170098 AND 910001

REF. DWG. NO.
SHEET NO.
B3-12

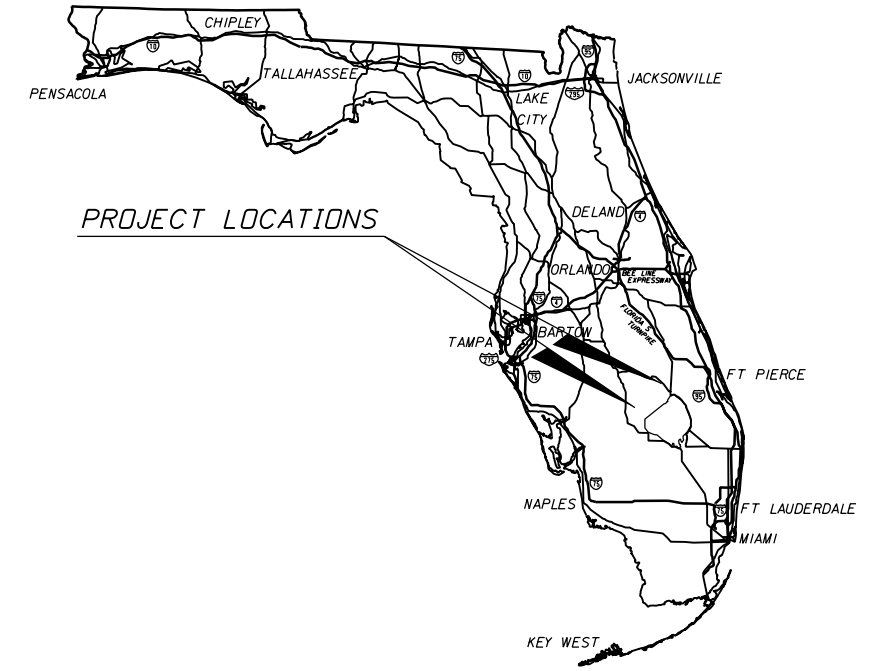
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 413817-1-52-01
HIGHLANDS COUNTY (09110000) & OKEECHOBEE
COUNTY (91070000)
STATE ROAD NO. 700 & 70

SIGNING AND PAVEMENT MARKING PLANS



INDEX OF SIGNING AND PAVEMENT MARKING PLANS

SHEET NO.	SHEET DESCRIPTION
S-1	KEY SHEET
S-2	TABULATION OF QUANTITIES
S-3	SIGNING AND PAVEMENT MARKINGS (BR. 090016)
S-4	SIGNING AND PAVEMENT MARKINGS (BR. 910001)

SIGNING AND PAVEMENT MARKING SHOP DRAWINGS
TO BE SUBMITTED TO:

ASHLEY L. WILLIS, P.E.
500 N. WESTSHORE BLVD.
SUITE 500
TAMPA, FL 33609
(813) 282.9886

PLANS PREPARED BY:

ECDriver
& ASSOCIATES

500 N. WESTSHORE BLVD.
SUITE 500
TAMPA, FL 33609
(813) 282.9886
CONTRACT NUMBER C8W76
CERT. OF AUTHORIZATION EB0003838
VENDOR NUMBER F5922375705004

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

KEY SHEET REVISIONS	
DATE	DESCRIPTION

SIGNING AND PAVEMENT
MARKING PLANS
ENGINEER OF RECORD: ASHLEY L. WILLIS, P.E.

P.E. NO.: 64600

FISCAL YEAR	SHEET NO.
11	S-1

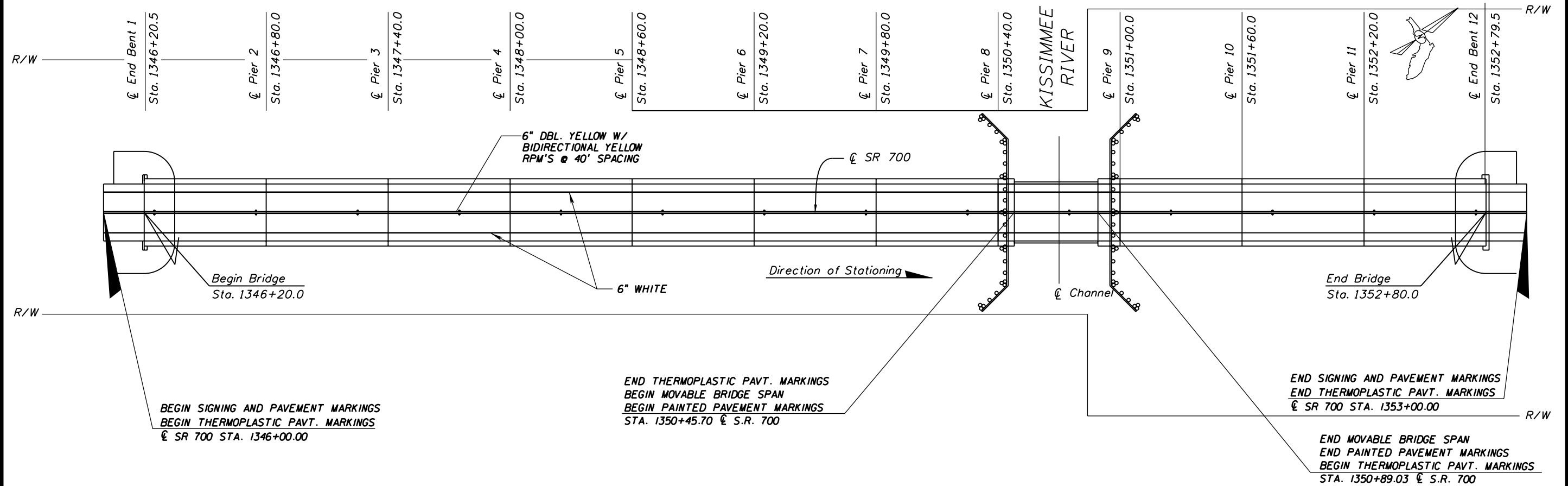
FDOT PROJECT MANAGER : LUIS JUARBE, P.E.

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			S-3		S-4																						
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL							
706-3	RETRO-REFLECTIVE PAVEMENT MARKER	EA	35	23																		58		58			
710-11-111	TRAFFIC STRIPE SOLID (WHITE) (6")	LF	87	87																		174		174			
710-11-211	TRAFFIC STRIPE SOLID (YELLOW) (6")	LF	87	87																		174		174			
711-11-111	TRAFFIC STRIPE SOLID (WHITE) (6")	LF	1314	834																		2148		2148			
711-11-211	TRAFFIC STRIPE SOLID (YELLOW) (6")	LF	1314	834																		2148		2148			

REVISIONS						ASHLEY L. WILLIS, P.E. P.E. License No: 64600 E. C. DRIVER & ASSOCIATES, INC. 500 N. Westshore Blvd, Suite 500 Tampa, Florida 33609 Certificate of Authorization No. 3838	DRAWN BY: JW 02-10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: TABULATION OF QUANTITIES		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		CHECKED BY: ALW 02-10	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	SHEET NO.	
								70	OKEECHOBEE	413817-1-52-01	BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001	5-2	

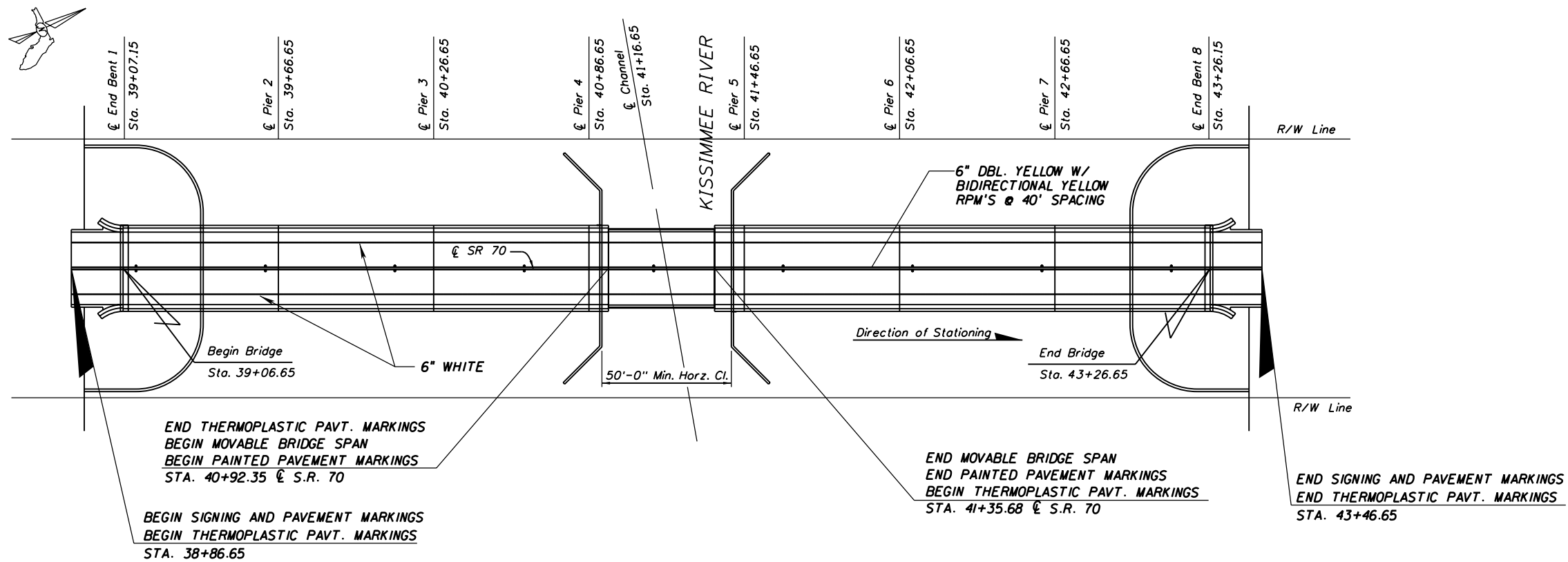
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6605-23.003, F.A.C.



SIGNING AND PAVEMENT MARKING NOTES

- PAVEMENT MARKINGS SHALL BE PLACED AS SHOWN IN THE PLANS AND FDOT DESIGN STANDARDS INDEXES 17346 & 17352.
- EXISTING PAVEMENT MARKINGS TO BE REMOVED USING WATERBLASTING OR ANY METHOD AS APPROVED BY THE ENGINEER.

REVISIONS						ASHLEY L. WILLIS, P.E. P.E. License No: 64600 E. C. DRIVER & ASSOCIATES, INC. 500 N. Westshore Blvd, Suite 500 Tampa, Florida 33609 Certificate of Authorization No. 3838	DRAWN BY: JW 02-10 CHECKED BY: ALW 02-10 DESIGNED BY: JW 02-10 CHECKED BY: JSM 02-10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: SIGNING AND PAVEMENT MARKINGS - BRIDGE NO. 090016		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	SHEET NO.	
						700	HIGHLANDS	413817-1-52-01	BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001	S-3			



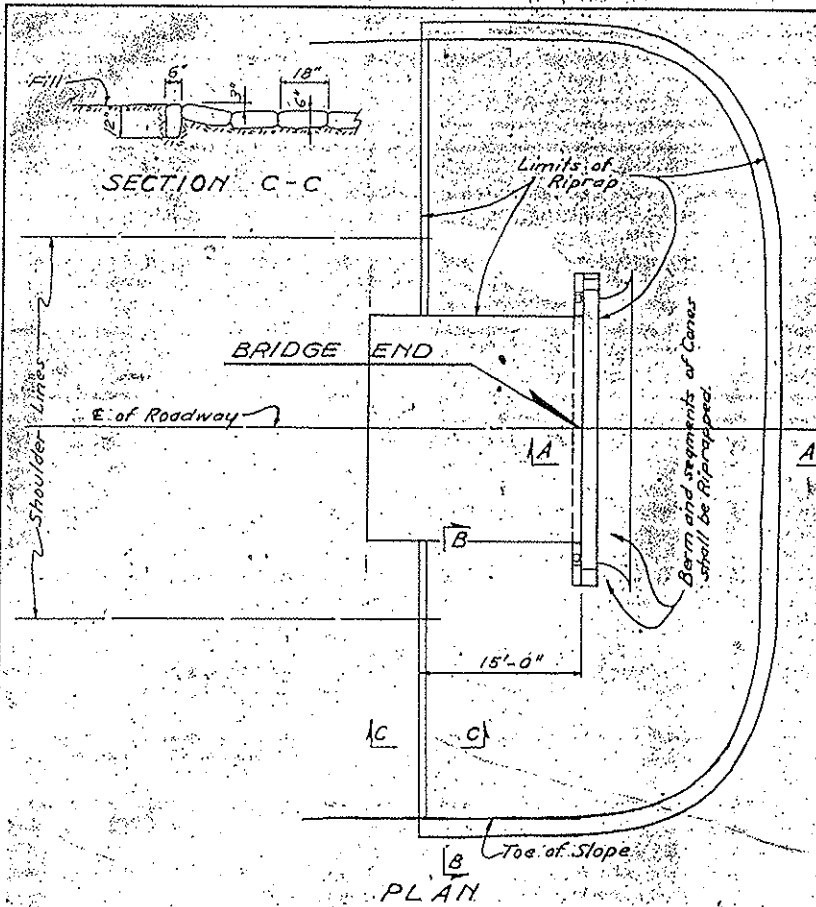
SIGNING AND PAVEMENT MARKING NOTES

1. PAVEMENT MARKINGS SHALL BE PLACED AS SHOWN IN THE PLANS AND FDOT DESIGN STANDARDS INDEXES 17346 & 17352.
2. EXISTING PAVEMENT MARKINGS TO BE REMOVED USING WATERBLASTING OR ANY METHOD AS APPROVED BY THE ENGINEER.

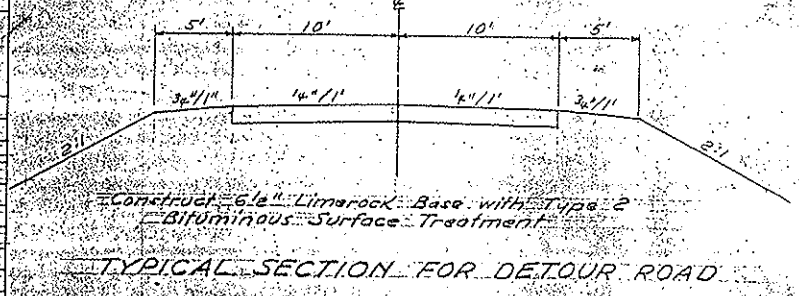
REVISIONS						ASHLEY L. WILLIS, P.E. P.E. License No: 64600 E. C. DRIVER & ASSOCIATES, INC. 500 N. Westshore Blvd, Suite 500 Tampa, Florida 33609 Certificate of Authorization No. 3838	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE SIGNING AND PAVEMENT MARKINGS - BRIDGE NO. 910001		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	SHEET NO.	
						70	OKEECHOBEE	413817-1-52-01	BRIDGE REPAIRS AND PAINTING NOS. 090016, 170098 AND 910001	S-4		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 68G15-23.003, F.A.C.

FED. ROAD DIST. NO.	STATE	PROJECT NO.	SHEET NO.
3	FLA.		8

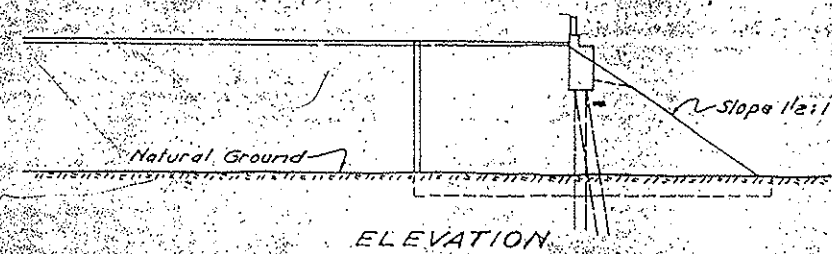


ITEM NO.	ITEM	UNIT	QUANTITY
105-30	Construction, Maintenance and Removal of Detour	Lump Sum	1
120-1	Removal of Existing Structures [Partial]	Lump Sum	1
140-52	Channel Excavation	Cu. Yd.	16,000
300-1-3	Class A Concrete (Bridge)	Cu. Yd.	381
300-7-1	Concrete Handrail (Safety Curb)	Lin. Ft.	548
310-1-2	Reinforcing Steels (Bridge)	Lb.	53,370
405-3-2	Precast Concrete Blocks Furnished (18") [Prestressed]	Lin. Ft.	1,880
405-4-2	Precast Concrete Blocks (18") [Prestressed]	Lin. Ft.	1,880
405-9-2	Unloaded Test Piles (18") [Prestressed]	Lin. Ft.	170
405-10-80	Test Loads (80 Tons)	Each	1
410-2-1	Structural Steel (Carbon)	Lump Sum	1
502-1	Shear Connectors	Lb.	3,560
547-30	Stone Filter Blanket (2" thick)	Cu. Yd.	760
550-1	Riprap (Sand & Cement)	Cu. Yd.	85
550-5	Riprap (Rubble)	Ton	2,583



Payment for incidental items not specifically covered in the individual bid items shall be included in the contract prices for bid items.
 ① The Number of Test Loads may be increased or omitted as directed by the Engineer.
 ② Item No. 410-2-1 includes approximately 123,083 Lbs.
 ③ Item No. 120-1 includes the cost of removing the existing South End Bent and the concrete handrail on the West side of the southernmost span.

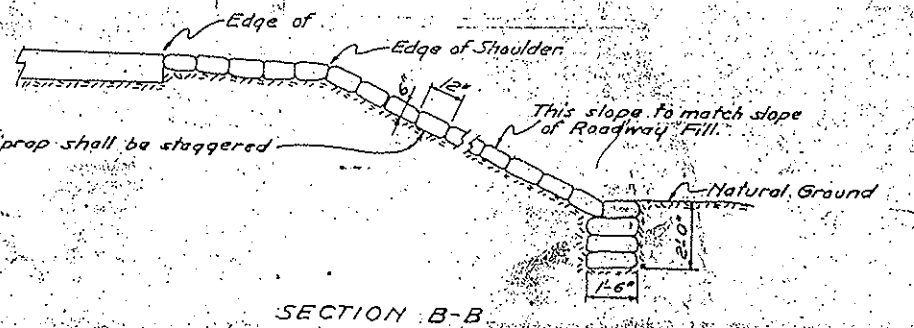
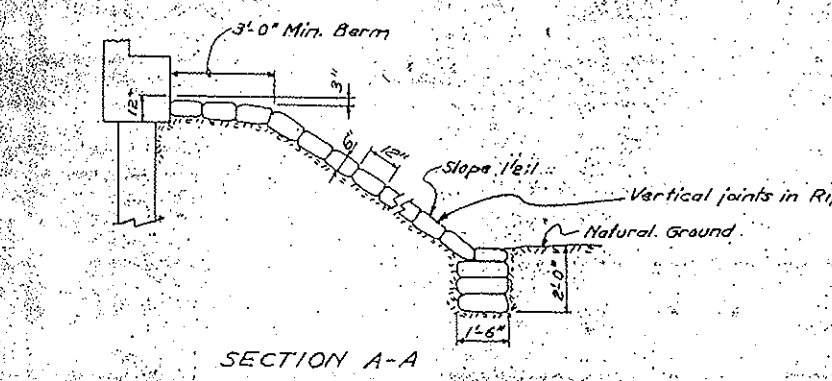
For actual Riprap Layout at Bridge Ends see Plan and Elevation, Sheet No. B-2.



GENERAL NOTES
 DESIGN SPECIFICATIONS, S.A.A.S.H.O., 1961 with Approved Revisions.
 LOADINGS: H-15, S-19.
 SURFACE FINISH: All exposed surfaces as specified in Section 300-21 of the Specifications shall be given Class 1 Surface Finish.
 REINFORCING STEEL: Intermediate or Hard Grade.
 CONCRETE STRENGTH: 3,000 p.s.i. for Class A.
 CONSTRUCTION: NOTE: Temporary supports for existing end span for the South End of the existing bridge will be required. It will be necessary for this support to be able to raise the end of the existing span a sufficient distance to provide for complete removal of the existing end bent and to construct the proposed pier No. 4. It will be necessary for this support to maintain the existing relative bedrock elevation in order to allow for the raising of the span. The design and plan for the temporary support shall be submitted to the Engineer for approval before work commences. Cost of temporary support to be included in the contract lump sum price for item No. 105-30.

INDEX OF BRIDGE SHEETS

- B-1 - Summary of Estimated Bridge Quantities, Riprap Details and General Notes
- B-2 - Plan and Elevation
- B-3 - Prestressed Concrete Pile, Index No. 3400
- B-4 - End Bent Details, Index No. 2752, DWG. CP-28
- B-5 - Details of Piers Nos. 1 thru 4
- B-6 - Details of 50 ft. Beam Span, Index No. 2752, DWG. 5
- B-7 - Standard Concrete Handrail, Index No. 3497
- B-8 - Standard Detour Bridge, Index No. 2755
- B-9 - Special Detour Span
- B-10 - Existing Structures



SECTION A-A
 RIPRAP DETAILS

SECTION B-B

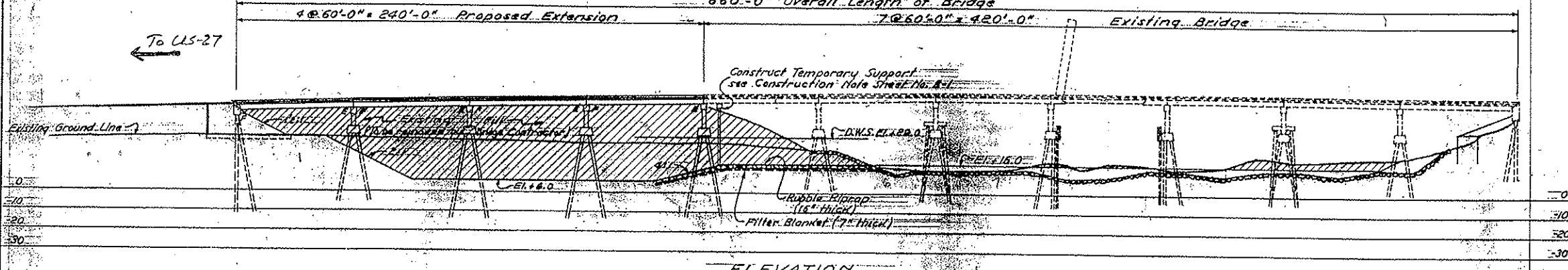
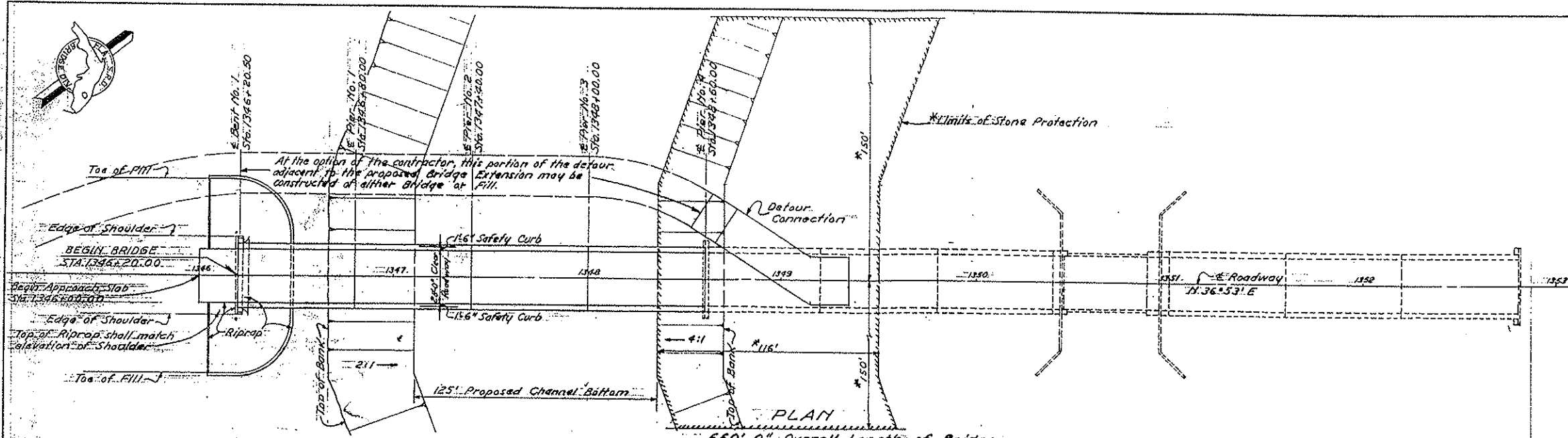


BEST AVAILABLE ORIGINAL

SUMMARY OF ESTIMATED BRIDGE QUANTITIES, RIPRAP DETAILS AND GENERAL NOTES

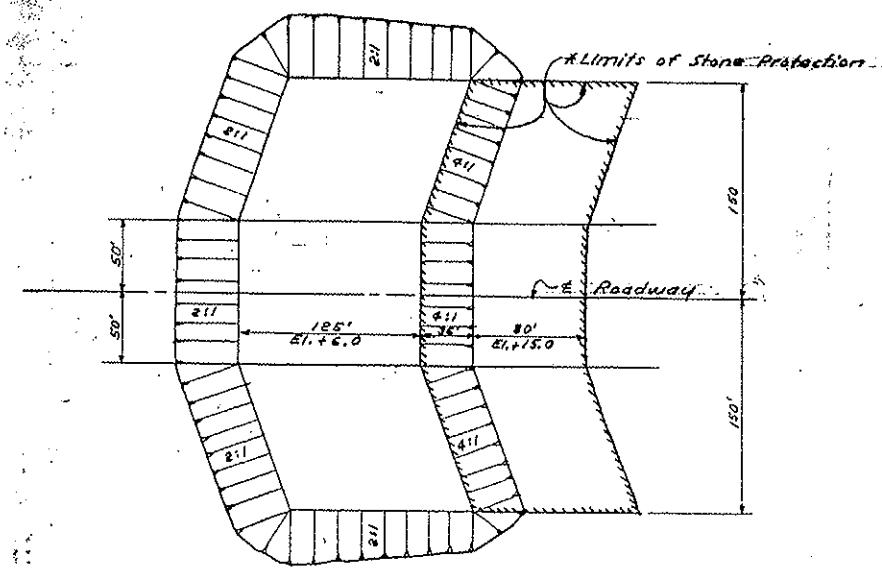
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EXTENSION OF BRIDGE OVER KISSIMMEE RIVER (CANAL C-38)			
ROAD NO.	COUNTY	HIGHLANDS	PROJECT NO.
700			03170-33-03
REVISED	DATE	DESCRIPTION	APPROVED BY
Checked by	Checked by	Checked by	Checked by
R.C.B.	R.C.B.	R.C.B.	R.C.B.
10-65	10-65	10-65	10-65
Checked by	Checked by	Checked by	Checked by
G.E.C.	G.E.C.	G.E.C.	G.E.C.
10-65	10-65	10-65	10-65

FED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.		65	8-2



Drive-on Unloaded Test Pile (18"Ø)
 50 feet long in Bent No. 1
 60 feet long in Pier No. 2
 60 feet long in Pier No. 3
 in the position of permanent piling (where applicable)
 located as directed by the Engineer.

End Bent Piles may be in place before fill is placed.
 Fill shall be in place to bottom of End Bent Cops.
 before they are poured.



PLAN LAYOUT
 SHOWING CHANNEL DETAILS

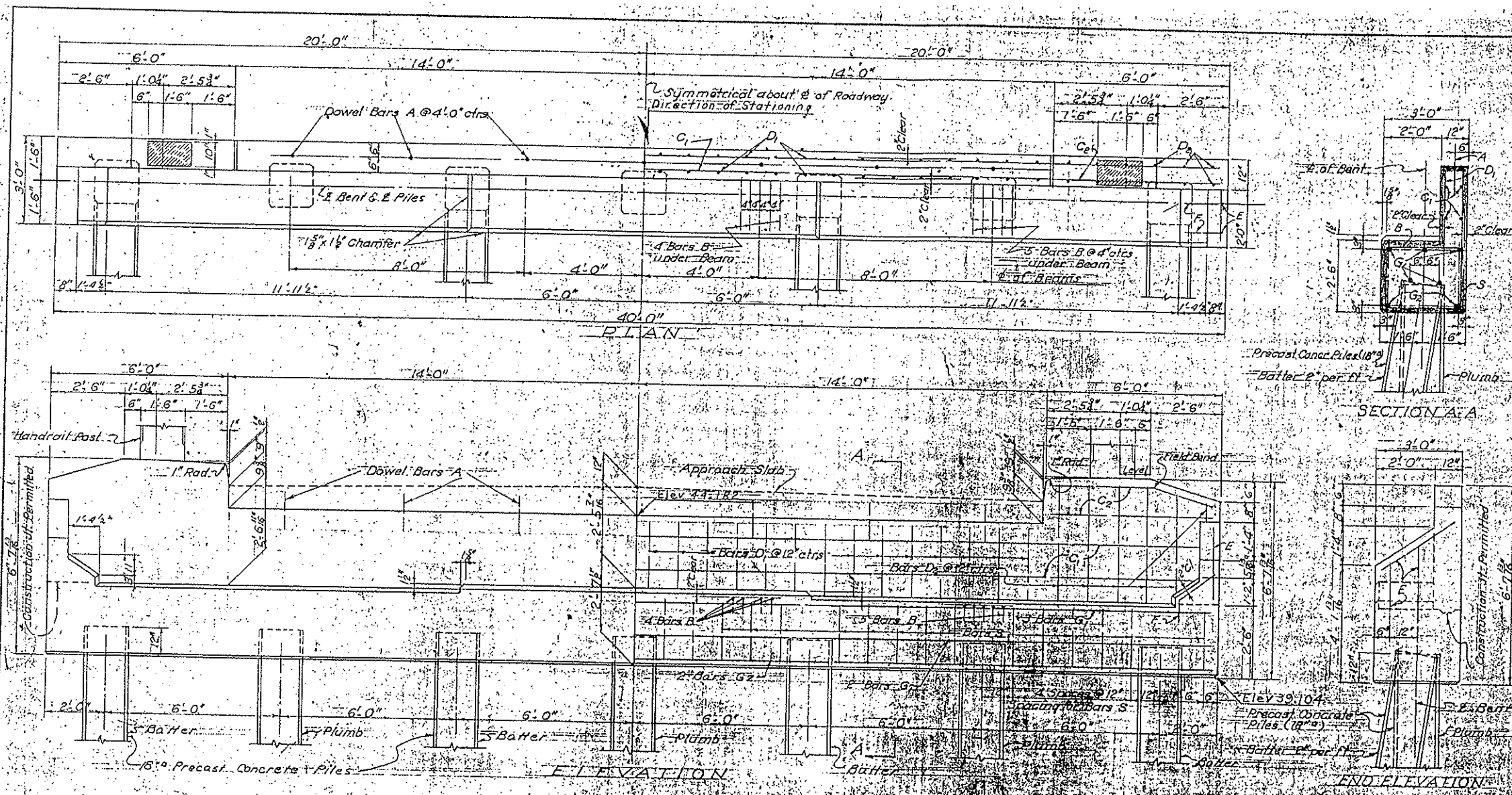
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PLAN AND ELEVATION
 STATE ROAD DEPARTMENT OF FLORIDA
 STRUCTURES DIVISION
 EXTENSION OF BRIDGE OVER
 KISSIMMEE RIVER (CANAL C-38)

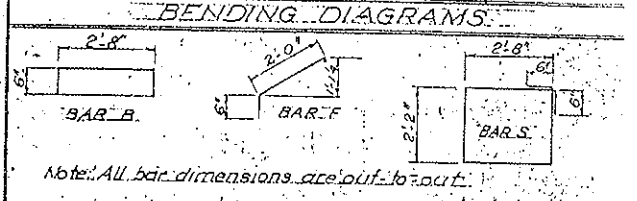
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	700	HIGHLANDS	03110-3503
Date	Description	Name	Date
		C. E. S.	9-65
		P. C. B.	10-65
		T. W. J.	2005
		C. E. S.	9-65

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.		65	B-4



BILL OF REINFORCING STEEL

MARK	SIZE	No. Pcs	LENGTH	LOCATION	BENDING
A	6	7	11.3'	Back Wall	Straight
B	4	18	3.6'	Cap	See Diagram
C	4	4	39.6'	Back Wall	Straight
C ₁	4	8	5.8'	Wind Wall	Field Bend
D	4	56	3.10'	Back Wall	Straight
D ₂	4	24	5.5'	Wind Wall	"
E	4	6	9.0'	End Wall	"
F	4	4	8.5'	"	See Diagram
G	8	5	39.6'	Cap	Straight
S	4	32	10.3'	"	See Diagram
G ₂	9	2	39.6'	Cap	Straight



ESTIMATED QUANTITIES

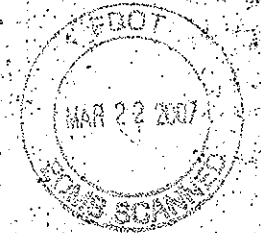
ITEM	UNIT	QUANTITY
Class A Concrete	cu. yd.	15.95
Reinforcing Steel	Lb.	1455
Precast Concrete Piling (18")	Lin. Ft.	x

* See Estimated Bridge Quantities

GENERAL NOTES

DESIGN SPECIFICATIONS: A. A. S. H. O. 396.1 with approved revisions.
 LOADING: H. 15.44.
 DESIGN LOAD FOR PILES: 95 tons.
 CHAMFER: All exposed edges to be chamfered 3" unless otherwise noted.
 DOWELS: Set dowels for Approach Slab.
 ANCHOR BOLTS AND HANDRAIL BARS: Set Anchor Bolts shown on Superstructure Dwg. and Vertical Bars shown on Handrail Drawing.
 REINFORCEMENT: Unless otherwise shown, reinforcement shall be 2" clear from face of concrete.

BEST AVAILABLE ORIGINAL



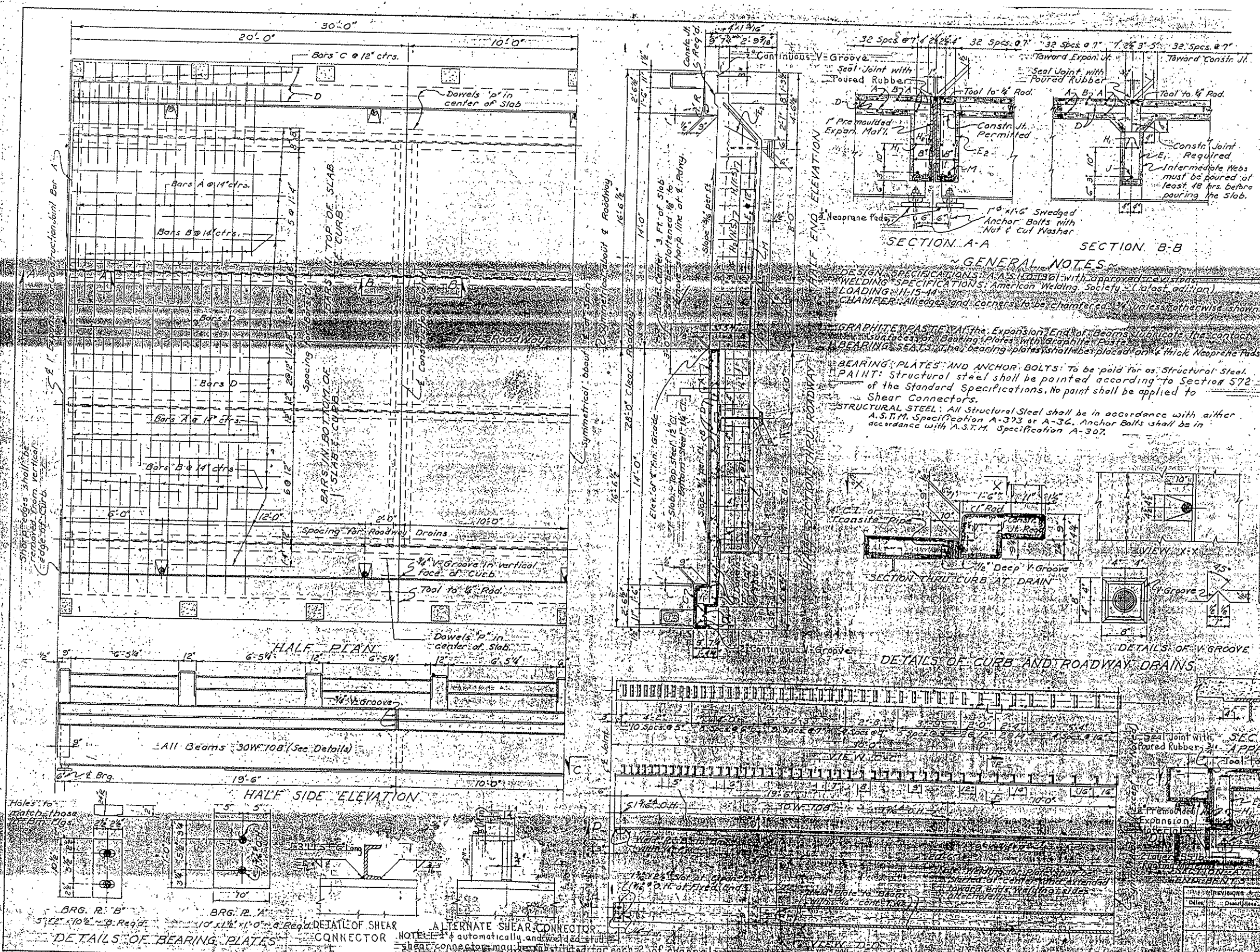
STATE ROAD DEPARTMENT OF FLORIDA
 BRIDGE DIVISION

CONCRETE PILE END BENT
 60 FT. SPAN - 28.5' ROADWAY

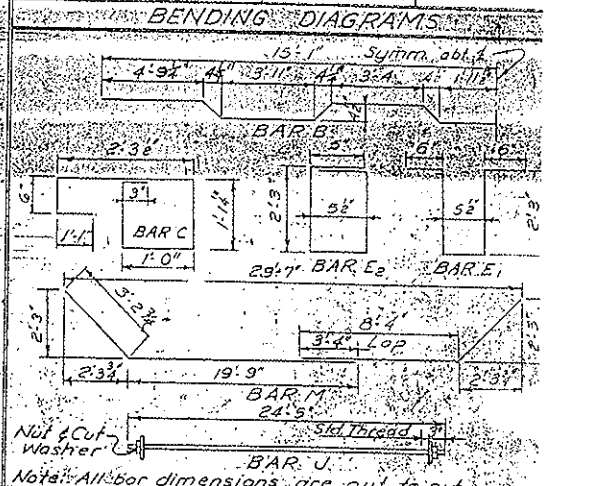
ROAD NO.	COUNTY	SECTION
100	HIGHLANDS	0310 - 352
Drawn by	Checked by	Quantity by
H.L.E.	R.G.Z.	H.L.E.
Date	Date	Date
5.31	6.27	5.31

T. W. JENNISON
 Drawing No. _____ Index No. _____

EXISTING BRIDGE PLANS FOR INFORMATION ONLY
FPID 413817-1-52-01
DRAWING NO. BX1-5

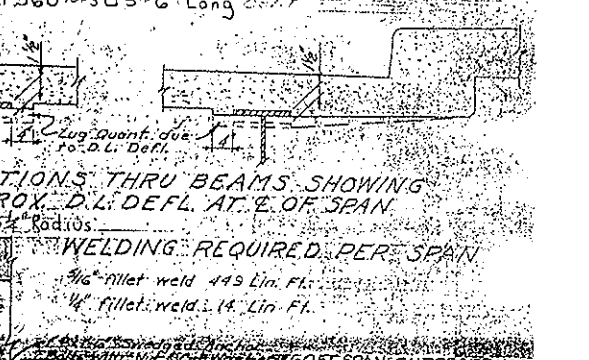


BILL OF REINFORCING STEEL					
MARK	BAR NO.	REQ. LENGTH	LOCATION	BENDING	
A	5	108	30'-2"	Slab	Straight
B	5	48	31'-1"		
C	4	120	6'-0"	Curb	Bend
D	4	163	19'-7"	Slab & Curb	Straight
E	4	48	5'-8"	Int. Webs	Bend
E ₂	4	52	5'-6"	End Webs	
H	4	18	7'-8"	End & Int. Webs	Straight
H ₂	4	2	26'-2"	End Webs	
J	8	2	24'-5"	Int. Webs	See Diagra
M	8	2	34'-5"	End Webs	
P	8	12	2'-0"	Slab	Straight



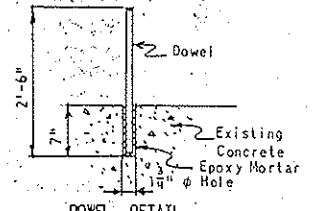
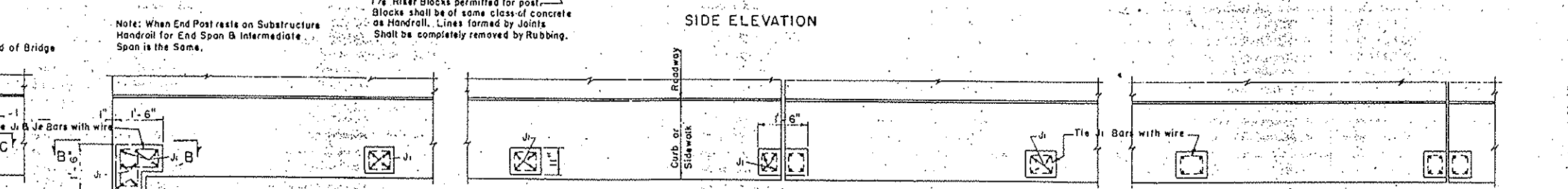
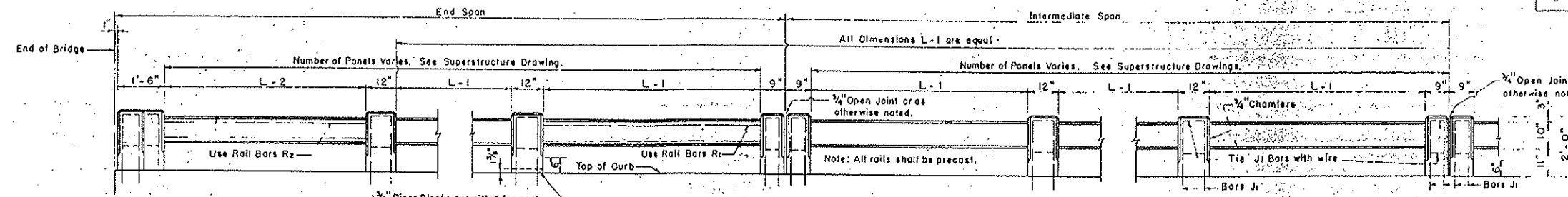
ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
Class A Concrete	CU YD	57.0
Reinforcing Steel	LB	8,541
Structural Steel	LB	30,771
Shear Connectors	LB	890

*Concrete Quantity estimated on the basis of a 7" Roadway Slab with 2.4 Cu Yds. allowed for Jugs and Dep'd Load Deflection haunches over Beams.

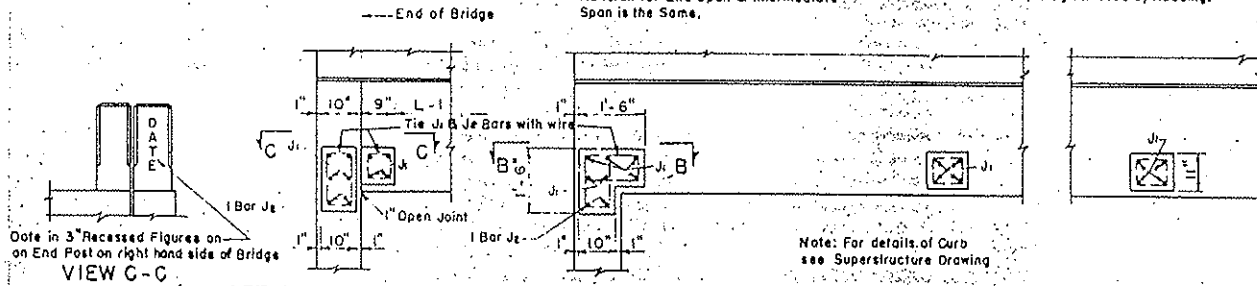


STATE ROAD DEPARTMENT OF FLORIDA BRIDGE DIVISION			
EXTENSION OF BRIDGE OVER KISSIMMEE RIVER (CANAL C-38)			
PROJECT NO.	COUNTY	PROJECT NO.	DATE
100	HIGHLANDS	09110-3503	
DESIGNED BY	DATE	APPROVED BY	
AGM	3-65	[Signature]	
DRAWN BY	DATE	CHECKED BY	
RCB	3-65	WMO	
CHECKED BY	DATE	APPROVED BY	
RCB	3-65	[Signature]	

REV. NO.	DATE	BY	CHKD.	DATE
3	FLA.		65	B-7

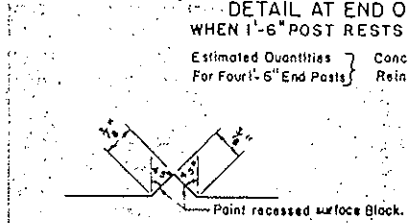


NOTE: Dowels shall be used to replace existing bars which have broken after removal of handrail on existing bridge for Detour. They shall be set in Epoxy Mortar, the cost of dowels shall be included in the Contract Unit Price for Reinforcing Steel. The cost of Epoxy Mortar and installing Dowels shall be included in the Contract Unit Price for Class A Concrete.

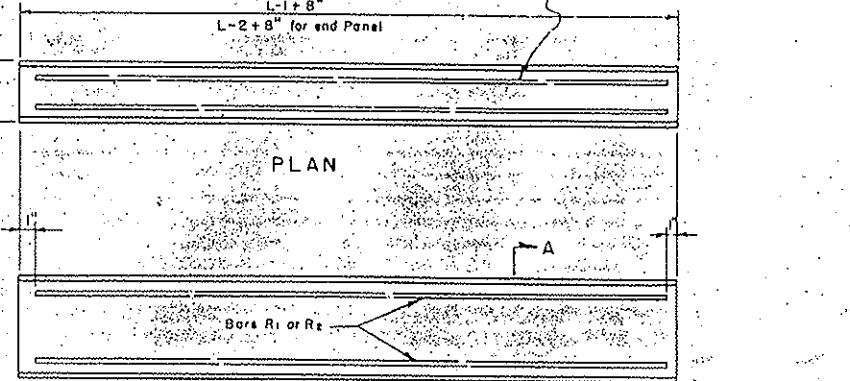


Estimated Quantities } Concrete: 0.37 Cu.Yd.
 For Four 1'-6" End Posts } Reinf. Steel: 81 LB.

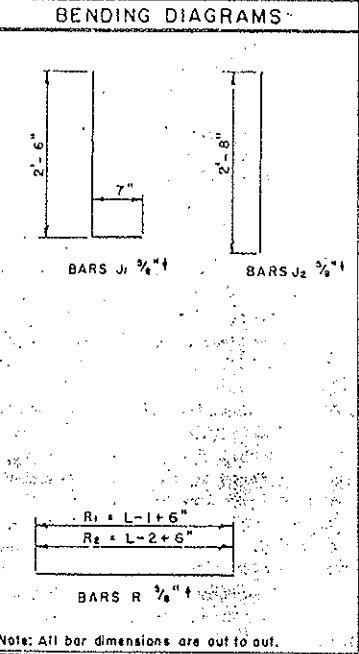
DATE



Note: At the option of the Contractor 4-3/8" S.R. Cables @ 12,000 Lbs. each may be substituted for the 3/8" Bars.



SPAN LENGTH FT.	ESTIMATED QUANTITIES				NO. OF PANELS PER SPAN	BILL OF REINFORCING STEEL								BENDING DIAGRAMS
	CONCRETE		REINF. STEEL			END SPAN				INTERMEDIATE SPAN				
	END SPAN CU. YD.	INTERM. SPAN CU. YD.	END SPAN LB.	INTERM. SPAN LB.		J ₁ 3'-1"	J ₂ 2'-8"	R ₁ L ₁ +6"	R ₂ L ₂ +6"	J ₁ 3'-1"	R ₁ L ₁ +6"			
15	0.87	0.72	207	190	2	2	4	8	8	24				
17.5	0.95	0.79	228	211	2	2	4	8	8	24				
20	1.13	0.98	271	253	3	3	4	16	8	32				
25	1.28	1.13	312	295	3	3	4	16	8	32				
30	1.54	1.39	375	358	4	4	4	24	8	40				
35	1.82	1.65	442	425	5	5	4	32	8	48				
40	1.97	1.80	480	464	5	5	4	32	8	48				
50														
60														



GENERAL NOTES

CONCRETE: Class "A" Concrete shall be used in Handrail.

PAYMENT: Handrail shall be paid for per linear foot, which shall include all Concrete and Reinforcing Steel. Handrail shall be measured along center line of Rail and End Post with no deduction for open joints.

Note: Markers recording the Elevation shall be placed on top of the Wings of End Bents or End Spans. On Bridges longer than 100 Ft. one marker shall be placed at each end of the Bridge. On Bridges less than 100 Ft. long one marker shall be placed at one end of the Bridge only. Markers are to be furnished by the S. R. D. and installed by the Contractor. Cost of installing the Markers shall be included in the Contract Unit Price for Concrete Handrail.



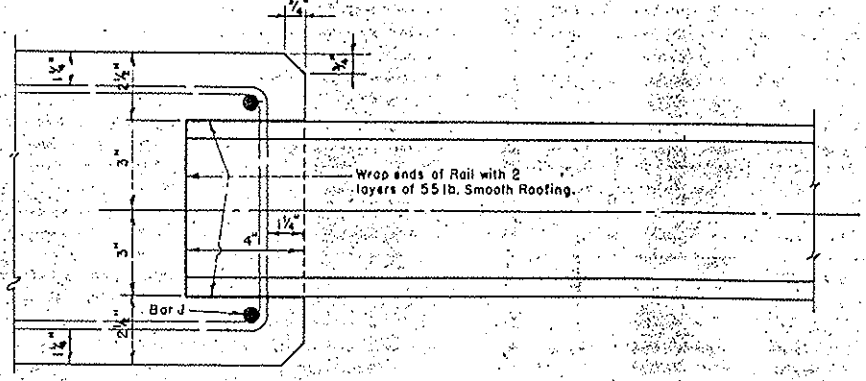
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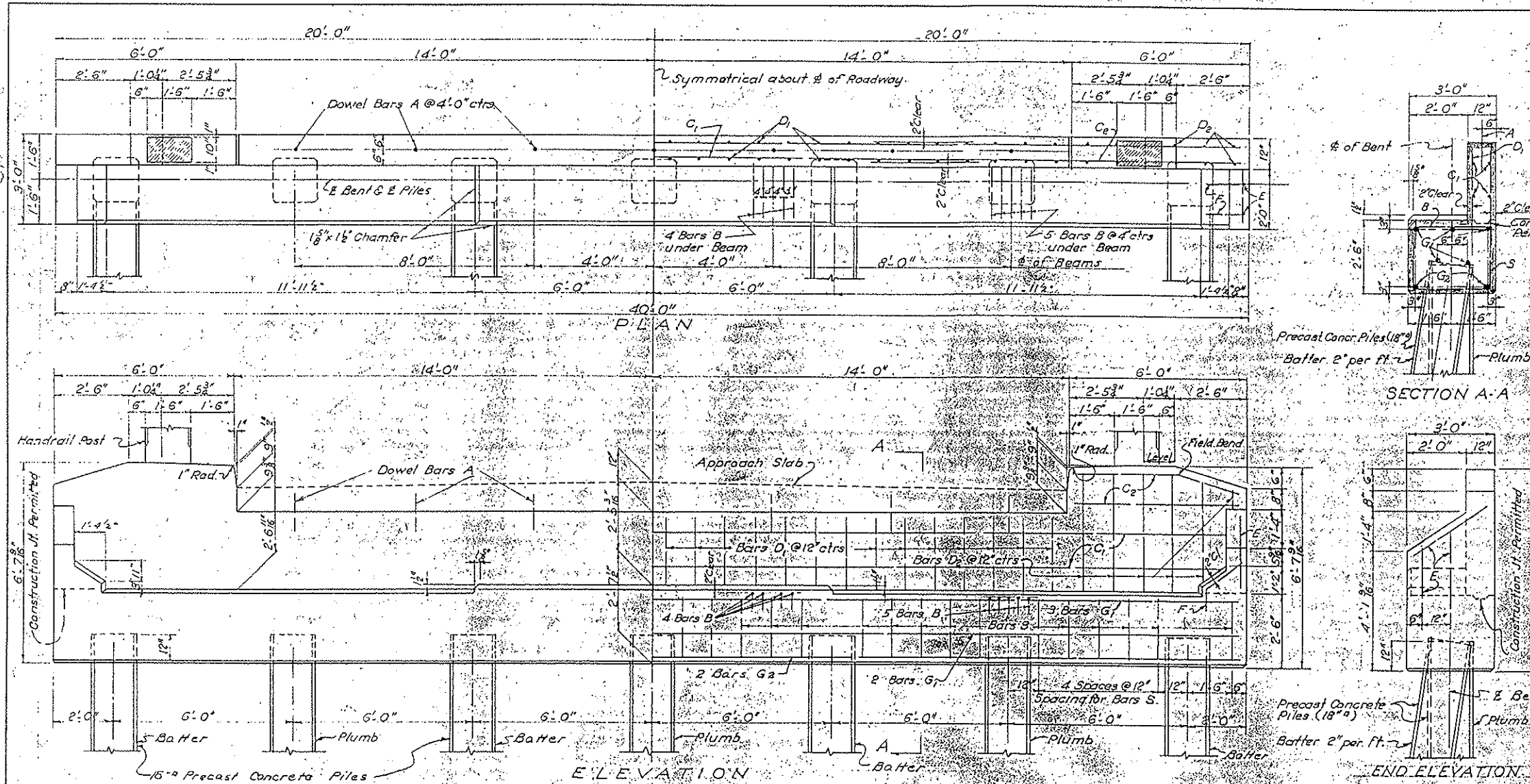
STATE OF FLORIDA
 STATE ROAD DEPARTMENT

STANDARD CONCRETE HANDRAIL

ROAD NO. 700 COUNTY HIGHLANDS PROJECT NO. 09110-3503

REV. NO.	DATE	DESCRIPTION	DESIGNED BY	DATE
AGM 9-65	9-65	Dowel Detail added	AGM	9-65
		Reflection Plates deleted	RCB	9-65

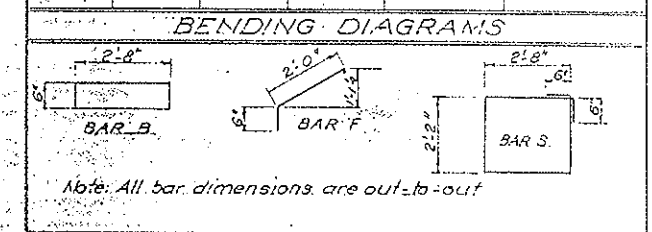




FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.	0911-108	51	8-7

Sheet No B-11

BILL OF REINFORCING STEEL					
MARK	SIZE	No. REQ'D	LENGTH	LOCATION	BENDING
A	6	7	1'-3"	Back Wall	Straight
B	4	18	3'-6"	Cap	See Diagram
C ₁	4	4	39'-6"	Back Wall	Straight
C ₂	4	8	5'-8"	Wing Wall	Field Bend
D ₁	4	56	3'-10"	Back Wall	Straight
D ₂	4	24	5'-5"	Wing Wall	"
E	4	6	3'-0"	End Wall	"
F	4	4	2'-5"	"	See Diagram
G ₁	8	5	39'-6"	Cap	Straight
S	4	32	10'-3"	"	See Diagram
G ₂	9	2	39'-6"	Cap	Straight

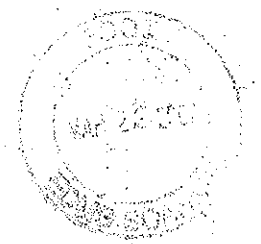


ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
Concrete, Class A	Cu. Yd	15.45
Reinforcing Steel	Lb.	1455
Precast Concrete Piling (18" dia)	Lin. Ft.	X

X See Estimated Bridge Quantities.

~GENERAL NOTES~
 DESIGN SPECIFICATIONS: A. A. S. H. O., 1949.
 LOADING: H. 15.44.
 DESIGN LOAD FOR PILES: 95 Tons.
 CHAMFER: All exposed edges to be chamfered 3/8" unless otherwise noted.
 DOWELS: Set dowels for Approach Slab.
 ANCHOR BOLTS AND HANDRAIL BARS: Set Anchor Bolts shown on Superstructure Dwg; Set Vertical Post Bars shown on Handrail Drawing.
 REINFORCEMENT: Unless otherwise shown reinforcing steel shall be 2" clear from face of concrete.

BEST AVAILABLE ORIGINAL



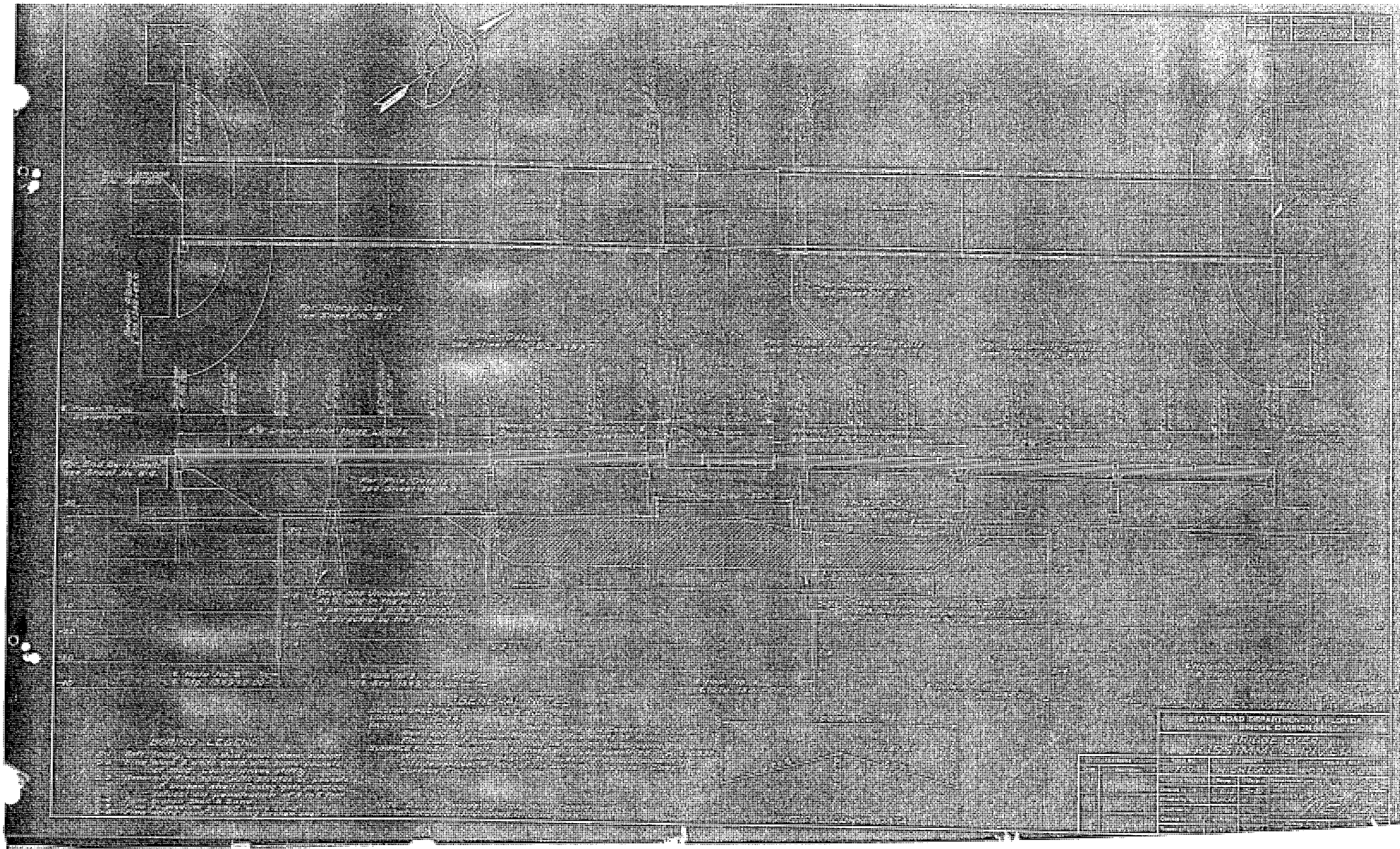
APPROVED *D. Dumbell*
 State Highway Engineer

EXISTING STRUCTURE
 STATE ROAD DEPARTMENT OF FLORIDA
 BRIDGE DIVISION
 CONCRETE PILE END BENT
 60 FT. SPAN - 25 FT. ROADWAY

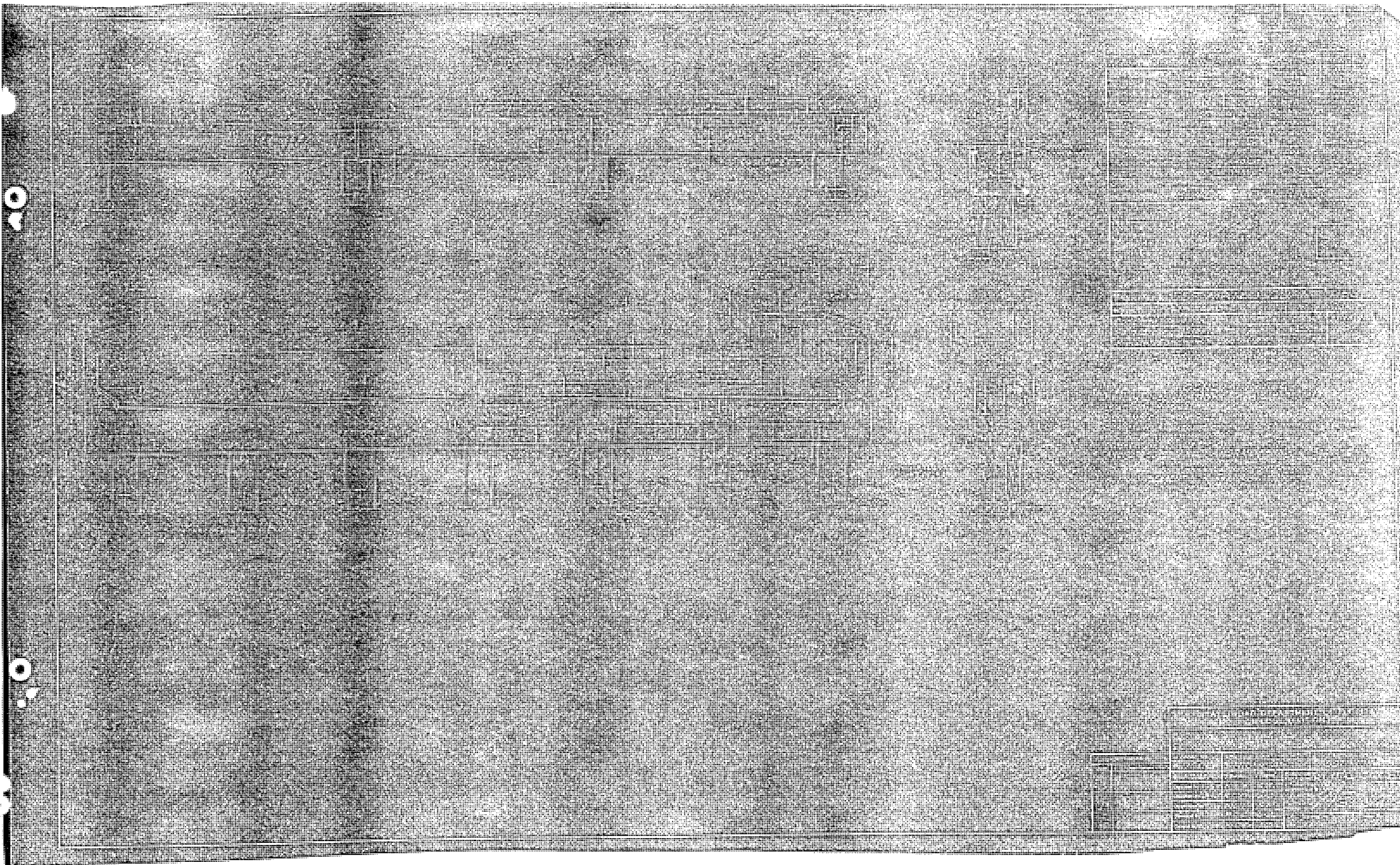
REVISIONS	ROAD NO.	COUNTY	PROJECT NO.
Date	700	HIGHLANDS	0911-108

Checked by	Date
H. L. F.	5-51
R. G. L.	6-51
H. L. F.	6-51
R. G. L.	6-51
H. L. F.	5-51

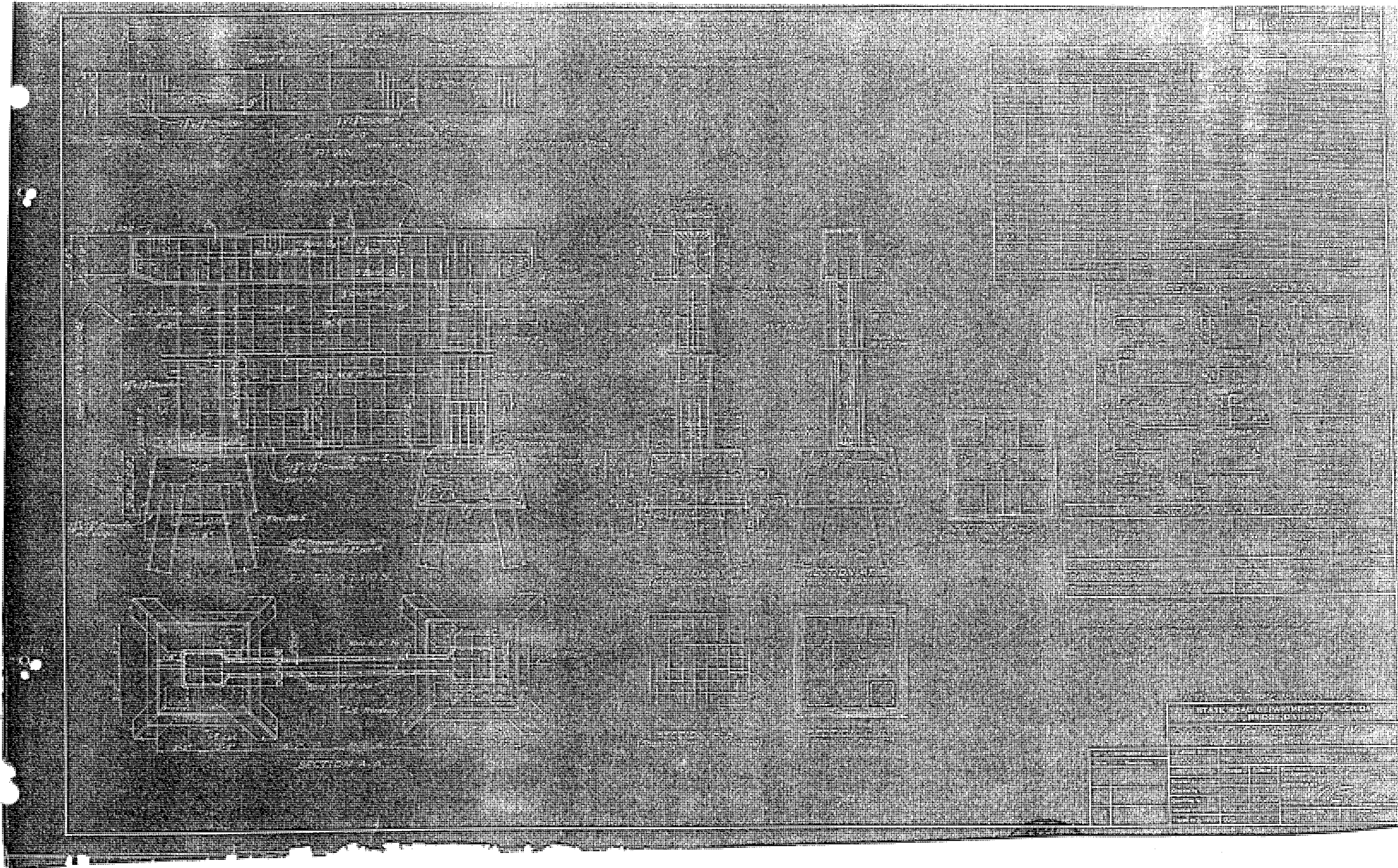
J. W. Jennings



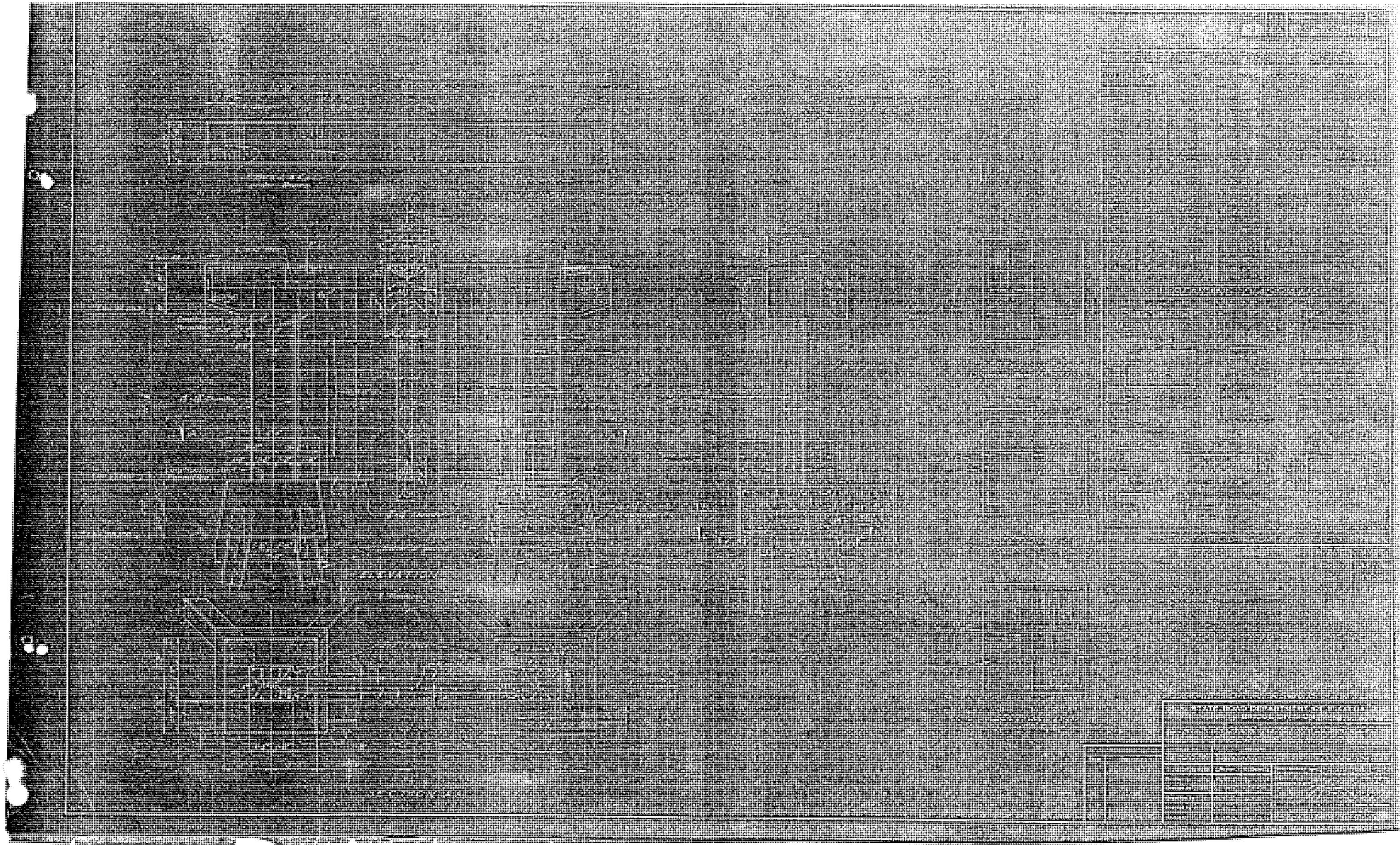
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FPID 413817-1-52-01
DRAWING NO. BX1-10



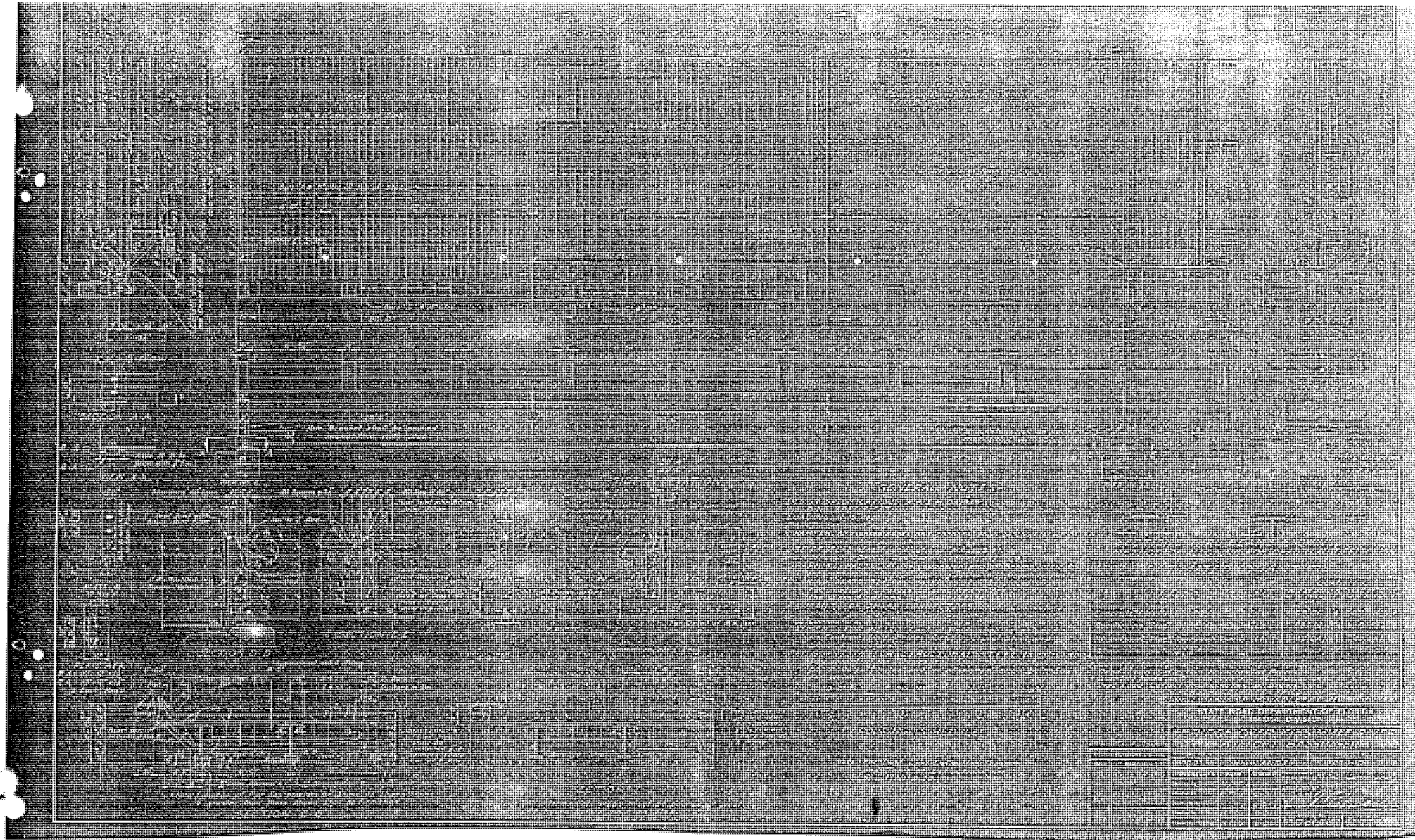
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FPID 413817-1-52-01
DRAWING NO. BX1-11



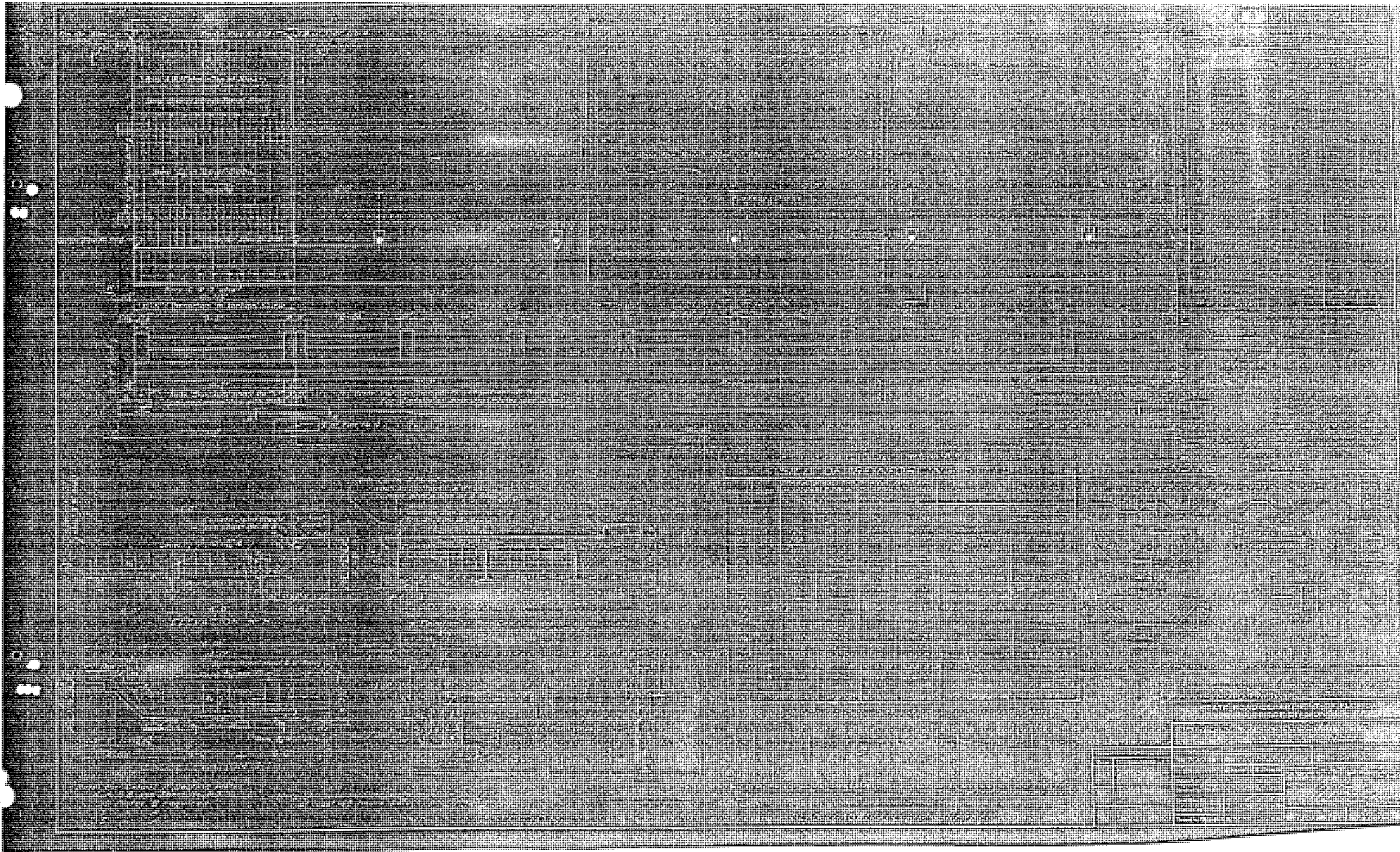
EXISTING BRIDGE PLANS-FOR INFORMATION ONLY
FPID 413817-1-52-01
DRAWING NO. BX1-12



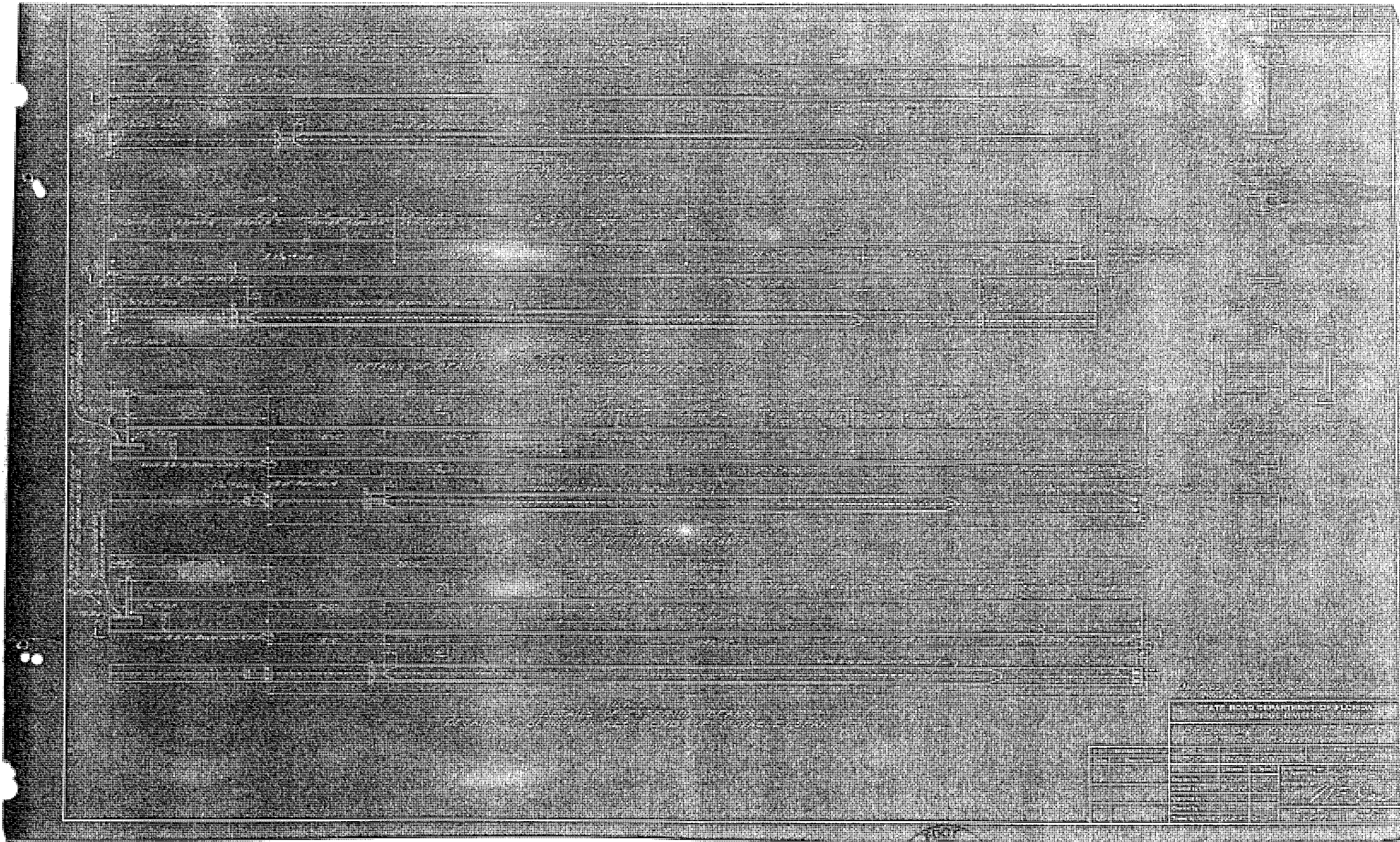
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DRAWING NO. BX1-14

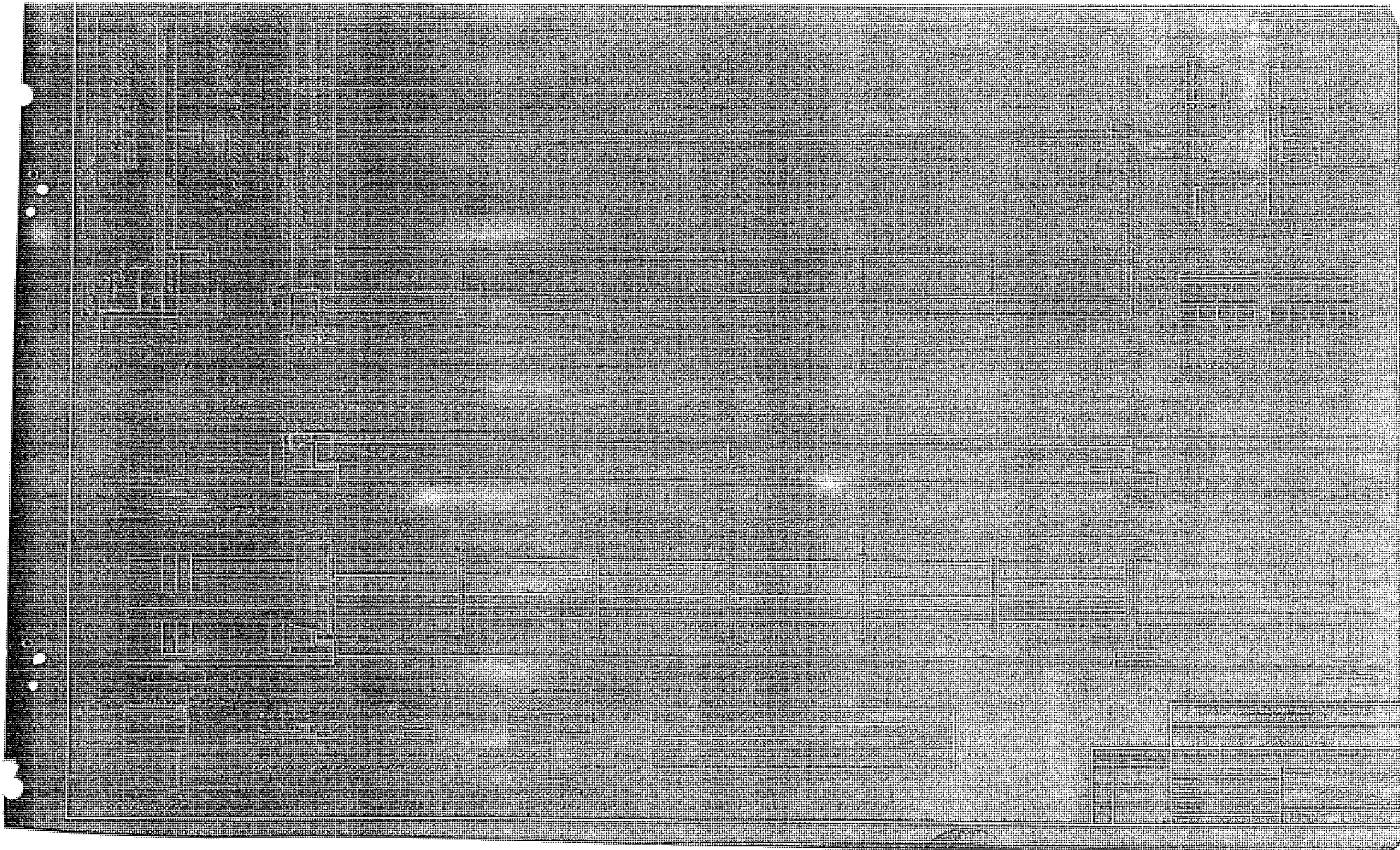


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DRAWING NO. BX1-16

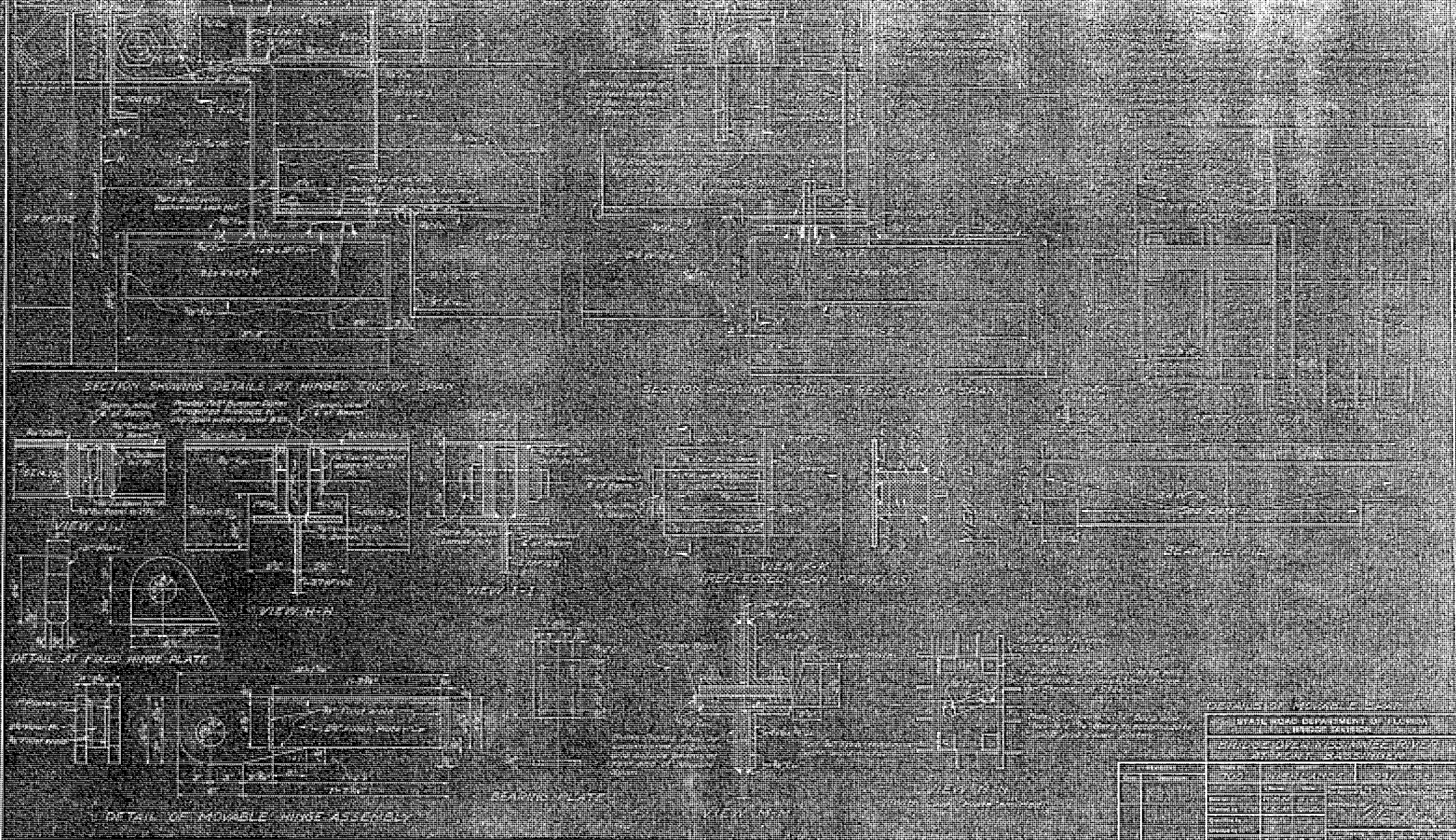


EXISTING BRIDGE PLANS-FOR INFORMATION ONLY
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DRAWING NO. BX1-17



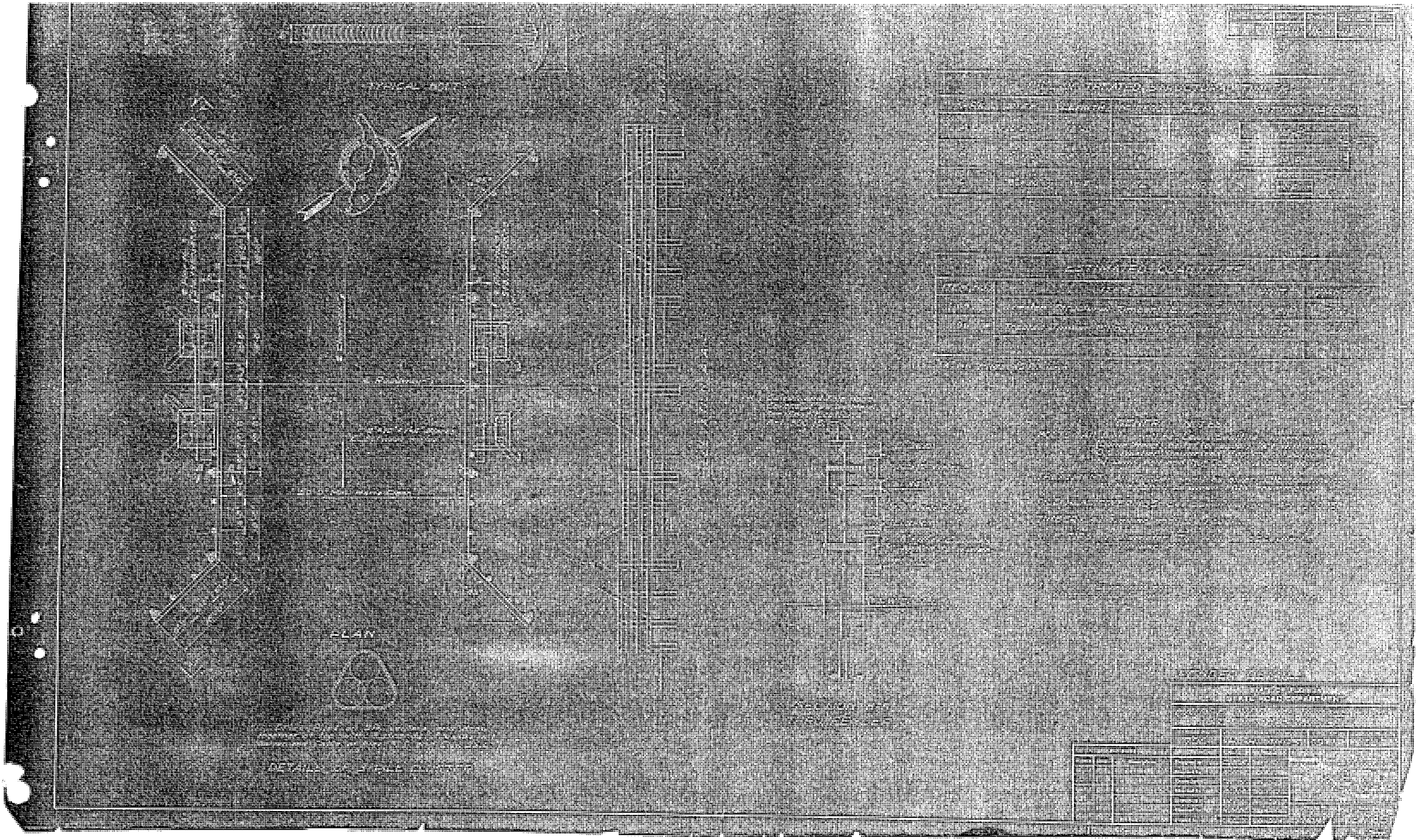


EXISTING BRIDGE PLANS-FOR INFORMATION ONLY
FPID 413817-1-52-01
DRAWING NO. BX1-19



STATE ROAD DEPARTMENT OF FLORIDA
BRIDGE DIVISION

PROJECT NO.	DATE	SCALE	BY	CHECKED

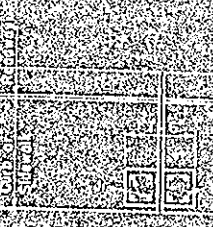


EXISTING BRIDGE PLANS-FOR INFORMATION ONLY
FPID 413817-1-52-01
DRAWING NO. BX1-21

ELEVATION OF END POST

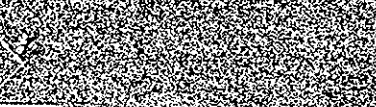


SIDE ELEVATION



DETAIL AT END OF BRIDGE WHEN 16" POST RESTS ON SUBSTRUCTURE

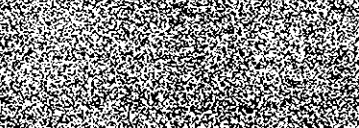
Estimated Quantities of Concrete 0.57 cu yd
 For 16" End Post Reinforcing Steel 98.11



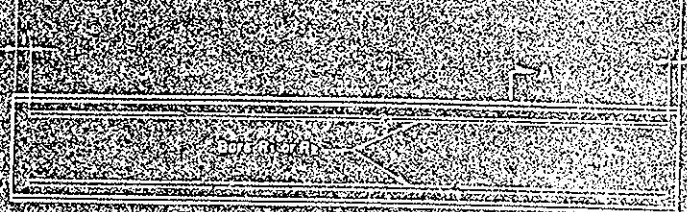
PLAN OF POSTS



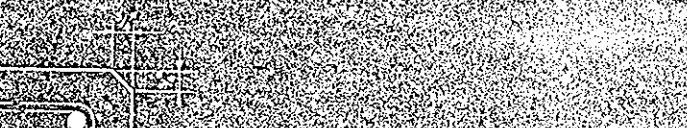
CROSS SECTION OF RECESSED V USED TO FORM INSCRIBED FIGURES



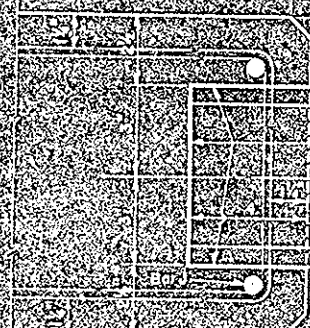
PLAN



ELEVATION RAIL DETAILS



SECTION A-A



DETAIL AT POST



SPAN LENGTH	ESTIMATED QUANTITIES				TOTAL OF REINFORCING STEEL										BENDING DIAGRAMS	
	CONCRETE	REINFORCING STEEL	REINFORCING STEEL	REINFORCING STEEL	TOP SPAN		MID SPAN		BOTTOM SPAN		PIERS		ABUTMENTS			
10.0	10.0	10.0	10.0	10.0												
20.0	20.0	20.0	20.0	20.0												
30.0	30.0	30.0	30.0	30.0												
40.0	40.0	40.0	40.0	40.0												
50.0	50.0	50.0	50.0	50.0												
60.0	60.0	60.0	60.0	60.0												
70.0	70.0	70.0	70.0	70.0												
80.0	80.0	80.0	80.0	80.0												
90.0	90.0	90.0	90.0	90.0												
100.0	100.0	100.0	100.0	100.0												

GENERAL NOTES

1. All dimensions are in feet and inches unless otherwise specified.
 2. Reinforcing steel shall be furnished in accordance with the requirements of the American Institute of Steel Construction, Inc. (AISC) Specification for Structural Steel Buildings, 1989 Edition.
 3. Concrete shall be furnished in accordance with the requirements of the American Concrete Institute (ACI) Building Code Requirements for Reinforced Concrete, 1995 Edition.
 4. All steel shall be painted with a heavy-duty zinc-rich primer and a two-coat system of high-quality, oil-based paint.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
STANDARD CONCRETE HANDBOOK
 1995 EDITION

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.			A-1

INDEX OF BRIDGE SHEETS

- A-1 INDEX & ESTIMATED BRIDGE QUANTITIES
- A-2 PLAN, ELEVATION & PROFILE
- A-3 BORINGS (1)
- A-4 BORINGS (2)
- A-5 PILE LAYOUT-(1)
- A-6 PILE LAYOUT-(2)
- A-7 CONSTRUCTION DATA (1)
- A-8 CONSTRUCTION DATA (2)
- A-9 CONSTRUCTION DATA (3)
- A-10 END BENT NO.1
- A-11 END BENT NO.5
- A-12 END BENT DETAILS (1)
- A-13 END BENT DETAILS (2)
- A-14 PIER NO.2
- A-15 PIER NO.3
- A-16 PIER NO.4
- A-17 SUPERSTRUCTURE (1)
- A-18 SUPERSTRUCTURE (2)
- A-19 SUPERSTRUCTURE (3)
- A-20 SUPERSTRUCTURE (4)
- A-21 SUPERSTRUCTURE (5)
- A-22 SUPERSTRUCTURE DETAILS
- A-23 FRAMING PLAN
- A-24 GIRDER ELEVATION G₁ (1)
- A-25 GIRDER ELEVATION G₁ (2)
- A-26 GIRDER ELEVATION G₂ (1)
- A-27 GIRDER ELEVATION G₂ (2)
- A-28 GIRDER ELEVATION G₃ (1)
- A-29 GIRDER ELEVATION G₃ (2)
- A-30 GIRDER ELEVATION G₄ (1)
- A-31 GIRDER ELEVATION G₄ (2)
- A-32 GIRDER ELEVATION G₅ (1)
- A-33 GIRDER ELEVATION G₅ (2)
- A-34 STEEL GIRDER DETAILS-(1)
- A-35 STEEL GIRDER DETAILS-(2)
- A-36 FIELD SPLICES
- A-37 BEARING DETAILS (1)
- A-38 BEARING DETAILS (2)
- A-39 CAMBER DIAGRAMS
- A-40 BILL OF REINFORCING STEEL (1)
- A-41 BILL OF REINFORCING STEEL (2)
- A-42 STANDARD BAR BENDING DETAILS

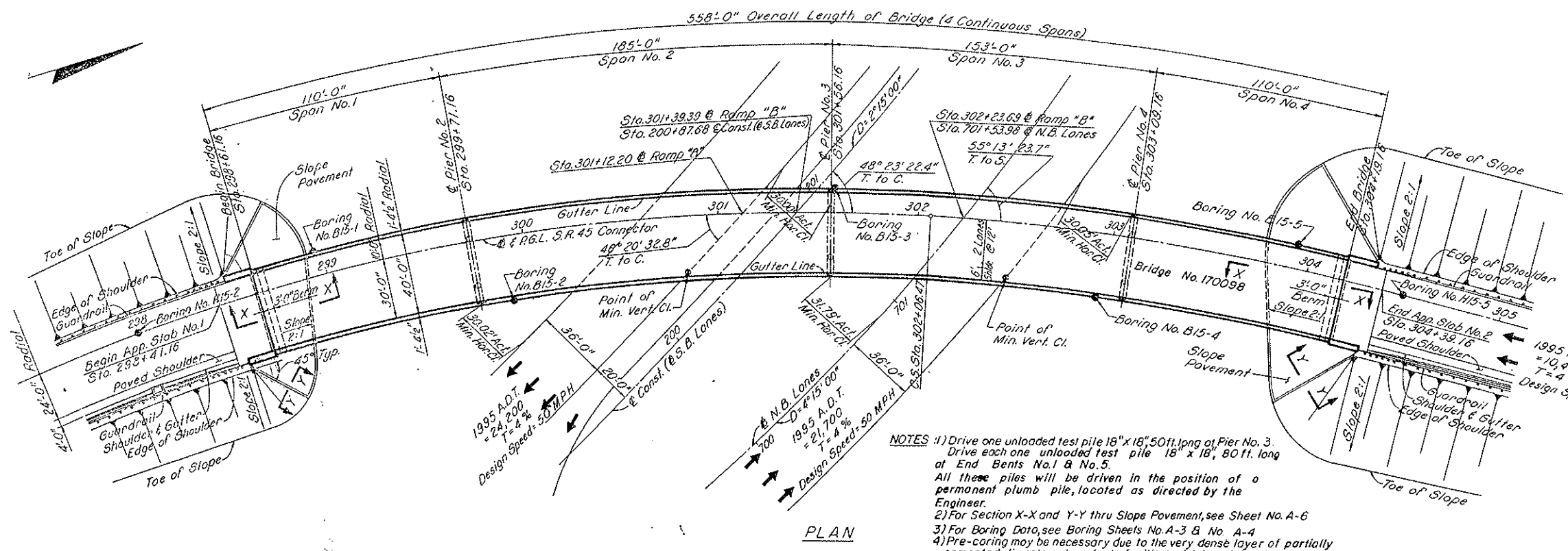
ESTIMATED BRIDGE QUANTITIES			
ITEM NO.	ITEM	UNIT	QUANTITY
400-2-4	Class II Concrete (Superstructure) (f'c=3,400 psi)	CY	609
400-2-5	Class II Concrete (Substructure) (f'c=3,400 psi)	CY	365
400-5-4	Concrete Handrail (Barrier)	LF	1,105
415-1-4	Reinforcing Steel (Superstructure)	LB	138,900
415-1-5	Reinforcing Steel (Substructure)	LB	71,800
455-3-2	Prestressed Concrete Piling Furnished (18" Sq.)	LF	4,365
455-4-2	Prestressed Concrete Piling Driven (18" Sq.)	LF	4,365
455-9-12	Unloaded Test Piles (Prestressed Conc.) (18" Sq.)	LF	210
455-15	Preformed Pile Holes	EA	82
455-17-2	Pile Splices (18" Sq.)	EA	6
460-2-1	Structural Steel (Carbon)	LS	1 (1)
460-2-2	Structural Steel (Low Alloy)	LS	1 (1)
460-2-3	Structural Steel (Shoe Assemblies)	LS	1 (1)
460-91-2	Expansion Joint Seal (Compression Elastic)	LF	81
524-2-2	Concrete Slope Pavement (4")	SY	1,110

NOTES: Payment for incidental items not specifically covered in the individual bid items, shall be included in the unit contract prices for bid items.
 (1) Estimated weight of item
 No. 460-2-1 = 635,300 LB.
 No. 460-2-2 = 150,100 LB.
 No. 460-2-3 = 19,400 LB.

BEISWENGER, HOCH & ASSOCIATES
 CONSULTING ENGINEERS

INDEX & ESTIMATED BRIDGE QUANTITIES			
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES			
SOUTHBOUND S.R.45 CONNECTOR OVER S.R.45 (U.S.41)			
REVISED	ROAD NO.	COUNTY	PROJECT NO.
Date	Description	S.R.61	SARASOTA
			17005-3501
		APPROVED BY	
	Designed by	M.R.S.	2-78
	Checked by	S.H.W.	8-78
	Quantity by	M.R.S.	8-78
	Checked by	F.A.	8-78
	Submitted by	S.H.W.	
		Deputy Design Engineer, Structures	
		Drawing No.	Index No.
		1 of 42	11725

FED. ROAD DIST. NO.	STATE	PROJECT NO.	SHEET NO.
3	FLA.		A-2



CURVE DATA - RAMP "B"

$PI = Sta. 298 + 35.55$
 $\Delta = 47^{\circ} 24' 54.0''$
 $D = 6^{\circ} 00' 00''$
 $R = 954.930'$
 $T = 419.334'$
 $L = 790.25'$
 $P.C. = Sta. 294 + 16.22$
 $C.S. = Sta. 302 + 06.470$
 $e = 0.09211/ft.$

SPIRAL CURVE DATA - RAMP "B"

$PI = Sta. 303 + 57.27$
 $LS = 450.000'$
 $\theta_s = 13^{\circ} 30' 00''$
 $D_c = 6^{\circ} 00' 00''$
 $P = 8.820'$
 $K = 224.586'$
 $X = 447.507'$
 $Y = 35.204'$
 $L.T. = 300.879'$
 $S.T. = 150.800'$

CURVE DATA - S. B. LANES

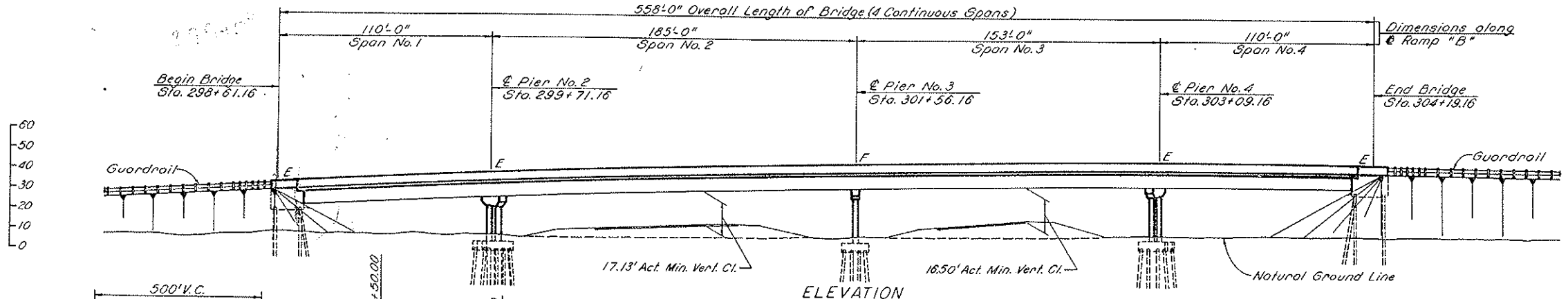
$PI = Sta. 200 + 29.68$
 $\Delta = 26^{\circ} 56' 34'' L.I.$
 $D = 2^{\circ} 15' 00''$
 $R = 2546.479'$
 $T = 610.011'$
 $L = 1197.457'$
 $P.C. = Sta. 194 + 19.67$
 $P.T. = Sta. 206 + 17.12$
 $e = 0.06351/ft.$

CURVE DATA - N. B. LANES

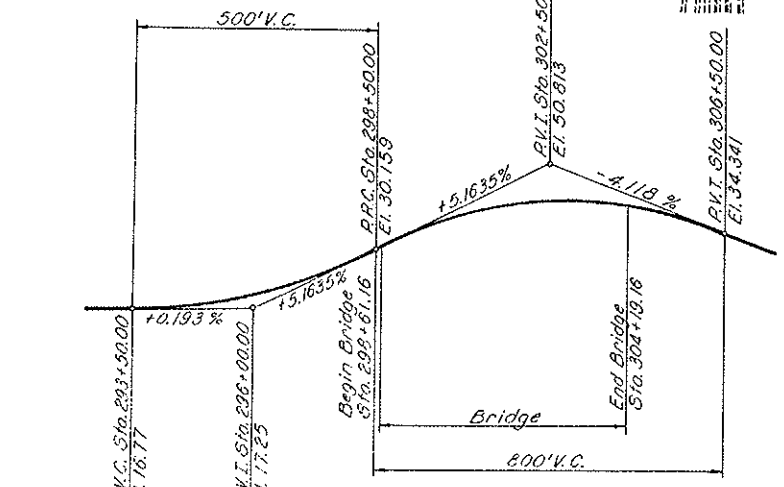
$PI = Sta. 700 + 91.83$
 $\Delta = 27^{\circ} 48' 31.31'' L.I.$
 $D = 4^{\circ} 15' 00''$
 $R = 1348.136'$
 $T = 333.739'$
 $L = 654.322'$
 $P.C. = Sta. 697 + 58.09$
 $P.T. = Sta. 704 + 12.42$
 $e = 0.09451/ft.$

- NOTES:**
- 1) Drive one unloaded test pile 18" x 18", 50 ft. long at Pier No. 3. Drive each one unloaded test pile 18" x 18", 80 ft. long at End Bents No. 1 & No. 5. All these piles will be driven in the position of a permanent plumb pile, located as directed by the Engineer.
 - 2) For Section X-X and Y-Y thru Slope Pavement, see Sheet No. A-6
 - 3) For Boring Data, see Boring Sheets No. A-3 & No. A-4
 - 4) Pre-coring may be necessary due to the very dense layer of partially cemented limestone in order to facilitate driving of the piles to the required depth.

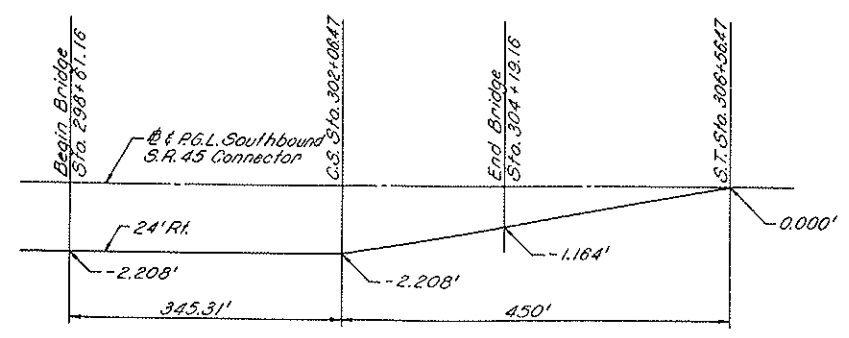
PLAN



ELEVATION



PROFILE GRADE SOUTHBOUND S.R. 45 CONNECTOR



SUPERELEVATION TRANSITION DIAGRAM

PROFILE GRADE SOUTHBOUND & NORTHBOUND S.R. 45

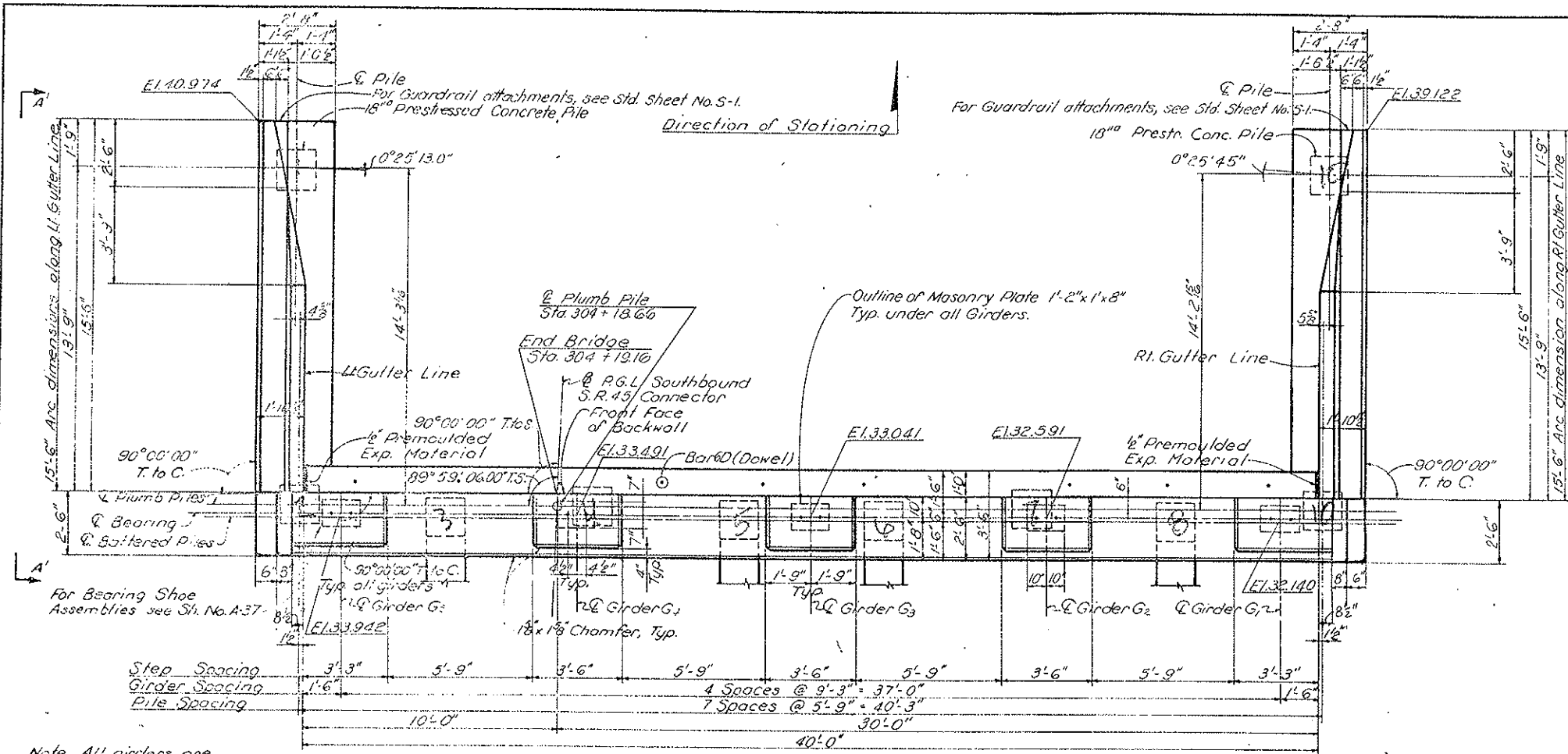
170098

PLAN, ELEVATION & PROFILE
 STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
 STRUCTURES
 SOUTHBOUND S.R. 45 CONNECTOR OVER
 S.R. 45 (U.S. 41) - BRIDGE NO. 170098

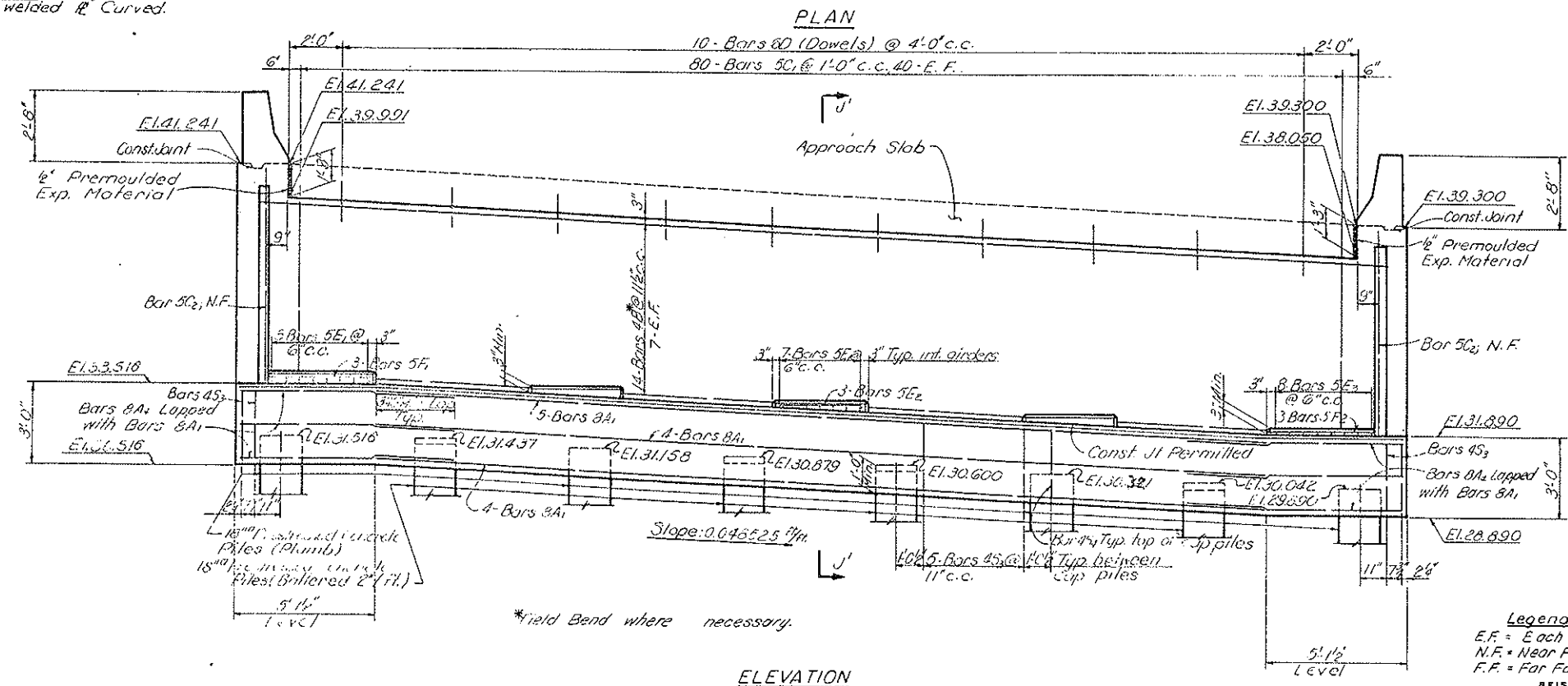
REVISIONS		EQAD NO.	COUNTY	PROJECT NO.
Date	Description	S.R.681	SARASOTA	17005-3501
		Designed by	MRS	2-78
		Checked by	S.H.W.	2-78
		Quantity by		
		Checked by		
		Supervised by	S. H. W.	
		APPROVED BY		Drawn by
				Index No.
		Chief Design Engineer, Structures		

BEISWENGER, HOCH & ASSOCIATES
 CONSULTING ENGINEERS

FED. ROAD DIST. NO.	STATE	PROJECT NO.	SPECIAL SHEET NO.
3	FLA.		A 11



Note: All girders are welded & Curved.

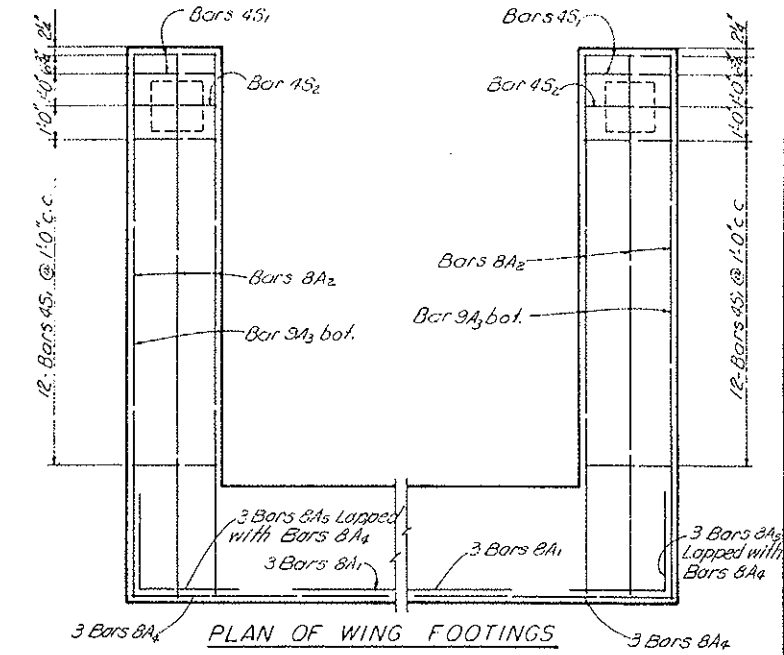


ELEVATION

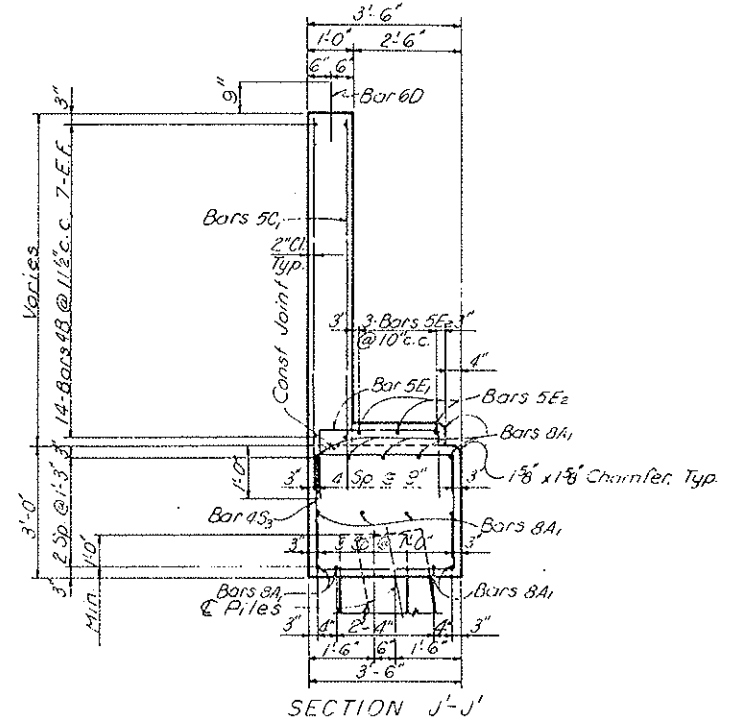
Notes:
 For Notes for End Bent, see Sheet No. A-13.
 For Views A-A' & B-B', see Sheet No. A-12.
 For Bill of Reinforcing Steel, see Sheet No. A-40.
 For Bending Diagrams, see Sheet No. A-42.

Legend
 E.F. = Each Face
 N.F. = Near Face
 F.F. = Far Face

BEISWENGER, HOCH & ASSOCIATES
 CONSULTING ENGINEERS



PLAN OF WING FOOTINGS

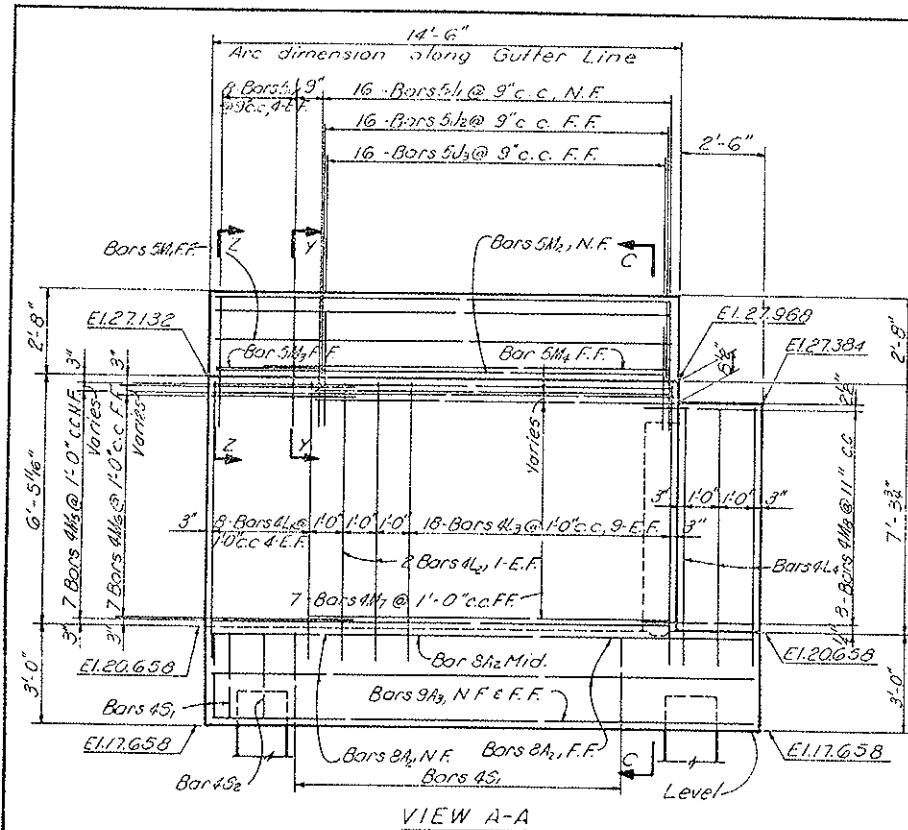


SECTION J-J'

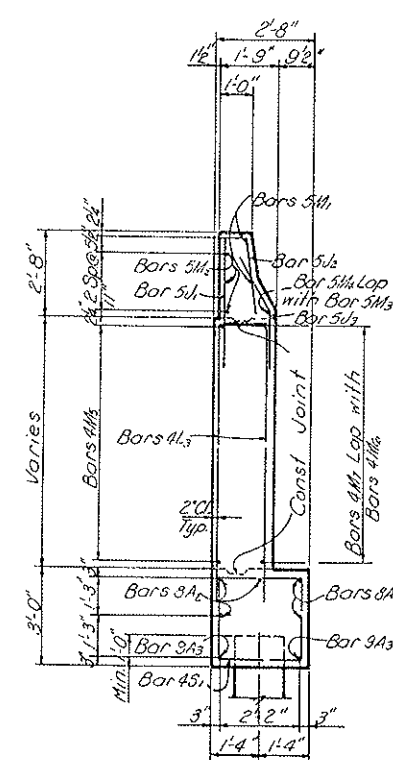
END BENT NO. 5
 STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
 STRUCTURES
 SOUTHBOUND S.R.45 CONNECTOR
 OVER S.R.45 (U.S.41)

REVISIONS	ROAD NO.	COUNTY	PROJECT NO.
	S.R.661	SARASOTA	17005 3501
Design	Name	Date	APPROVED BY
	M.R.S.	4-78	
Checked	P.F.H.	8-76	
Quantity			
Checked			
Supervised	H.W.		

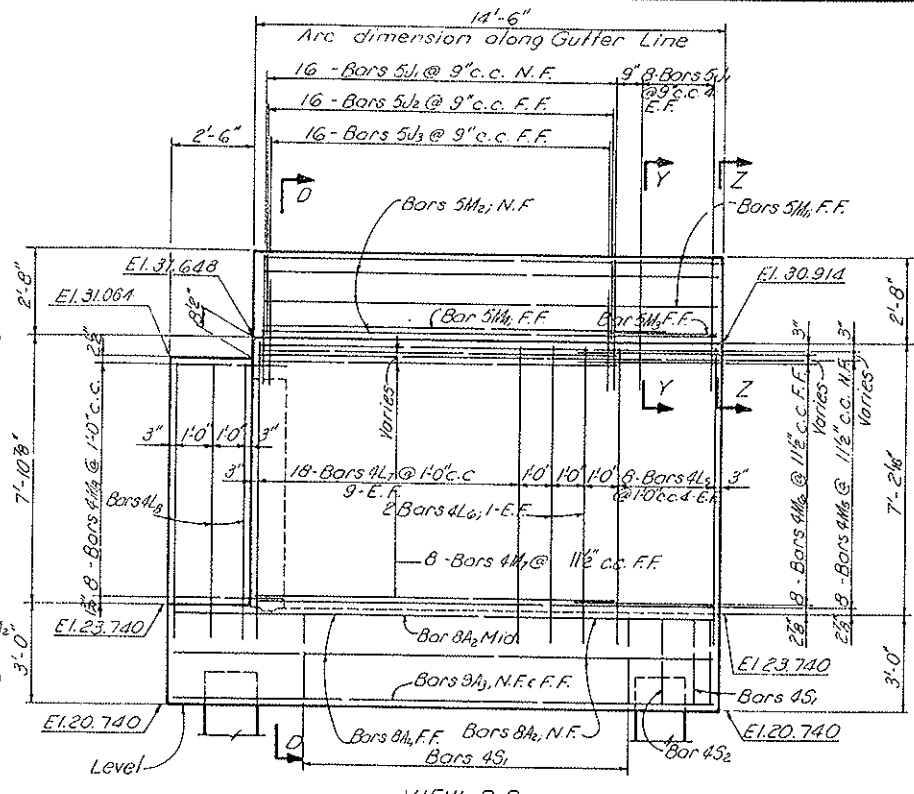
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.			A-12



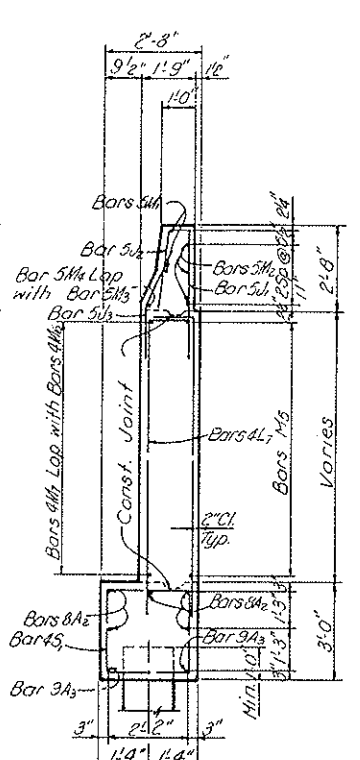
VIEW A-A



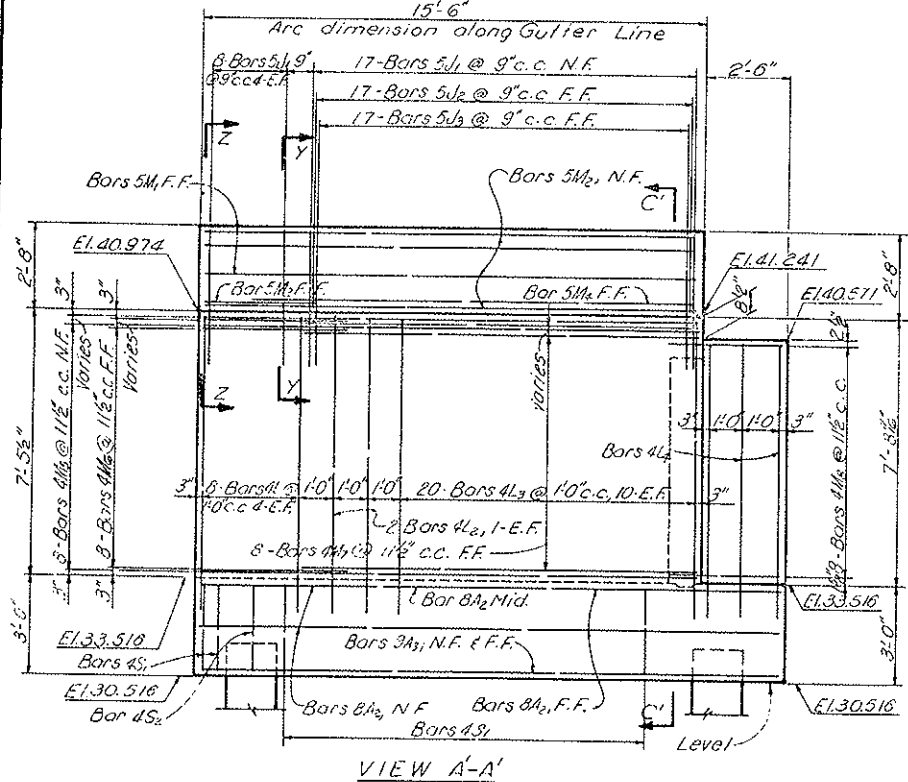
SECTION C-C



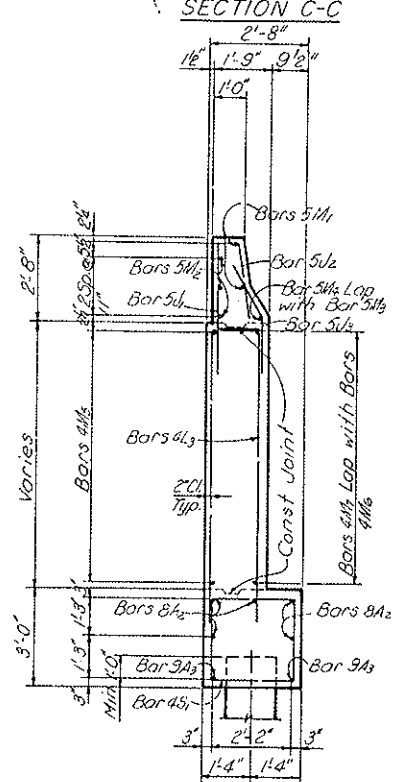
VIEW B-B



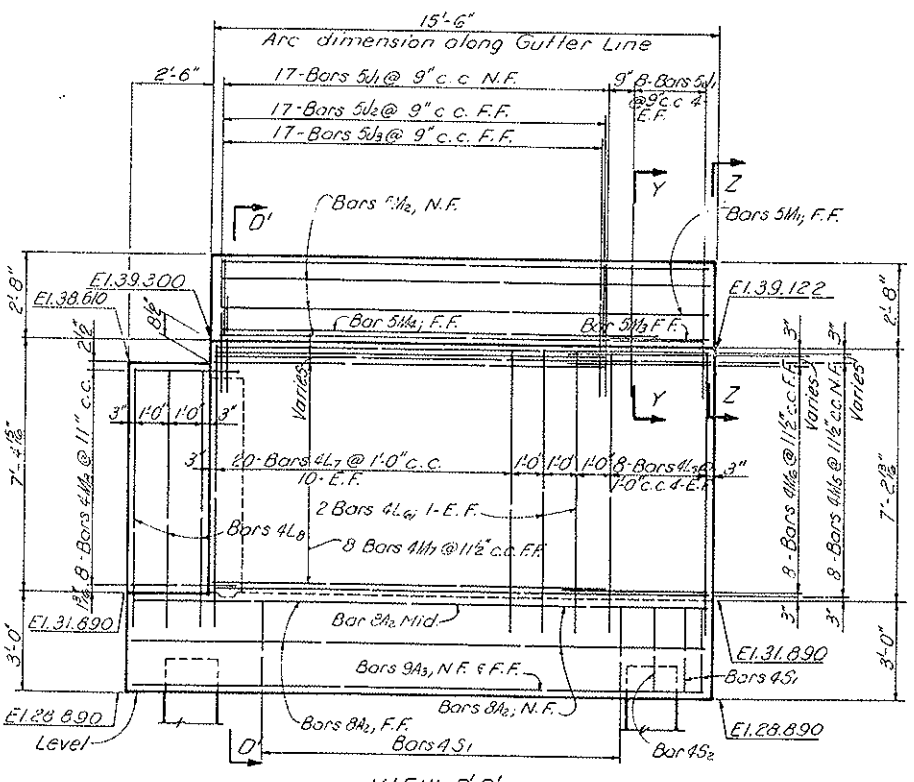
SECTION D-D



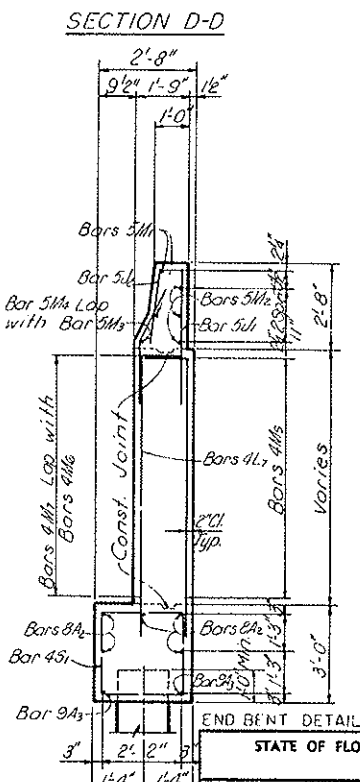
VIEW A'-A'



SECTION C'-C'



VIEW B'-B'



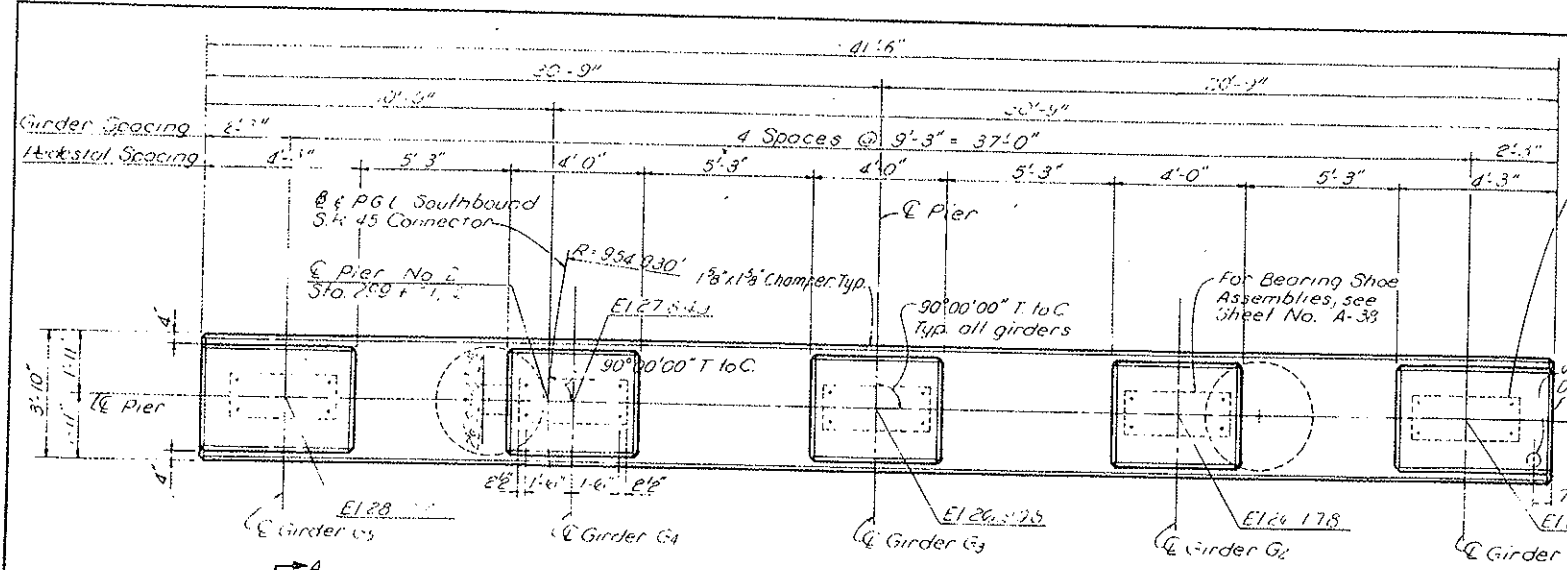
SECTION D'-D'

- NOTES: 1) For location of Views A-A & B-B, see Sn. No. A-10.
 2) For location of Views A'-A' & B'-B', see Sn. No. A-11.
 3) For Sections Y-Y & Z-Z, see Sheet No. A-13.
 4) For Barrier Dimensions (Side View) and Key between Wingwall & Barrier, see Sheet No. A-13.
 5) For "Notes for End Bents", see Sheet No. A-13.
 6) For Bill of Materials (Steel), see Sheet No. A-40.
 7) For Standard Bar Bending Details, see Sheet No. A-42.

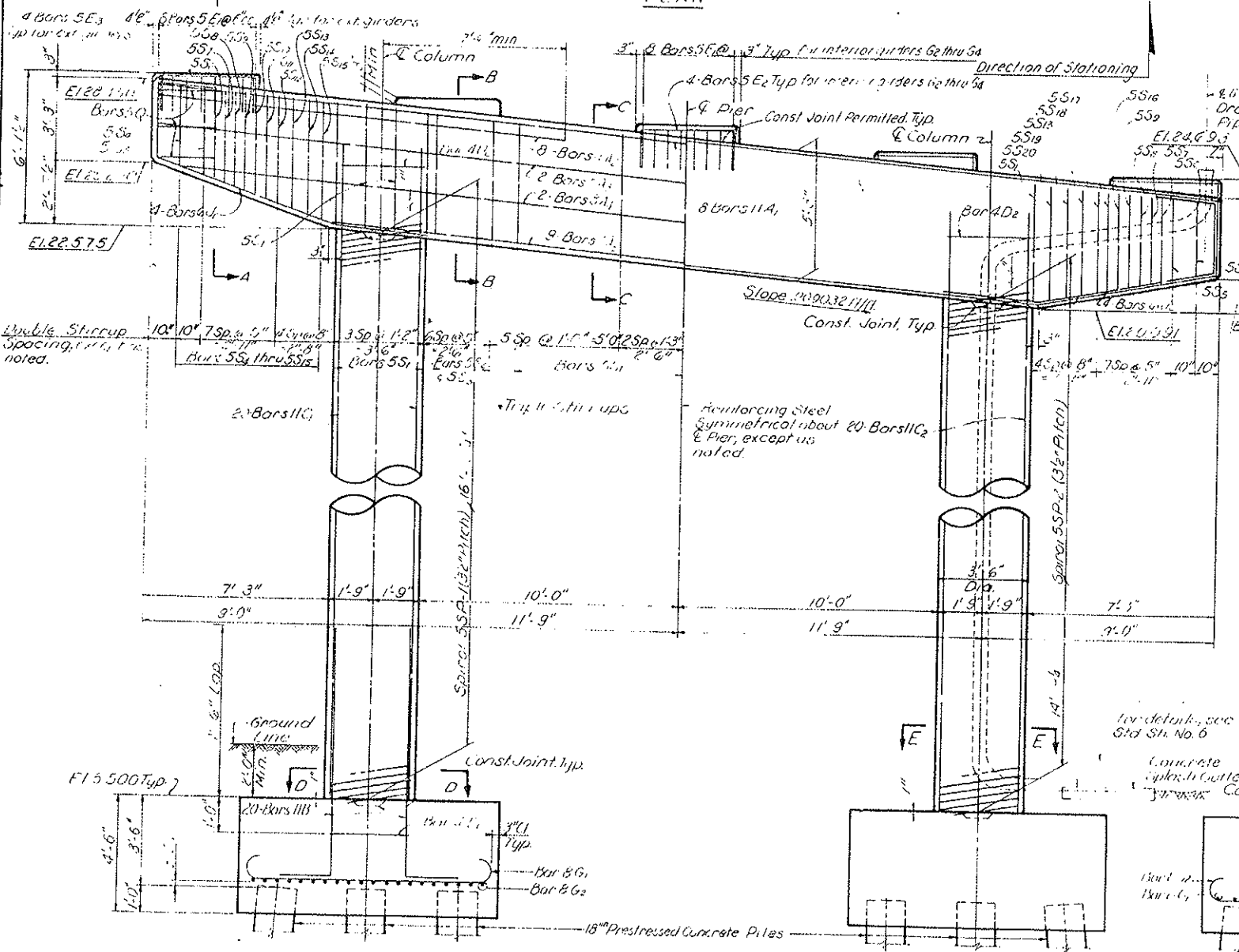
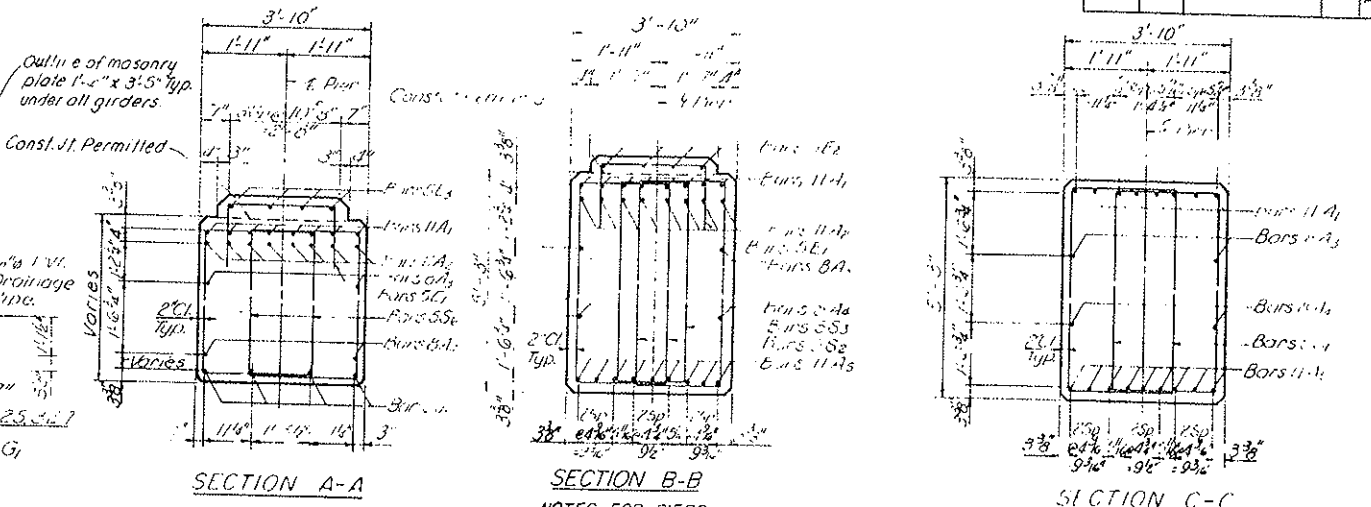
END BENT DETAILS (I)
 STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
 STRUCTURES
 SOUTHBOUND S.R.45 CONNECTOR
 OVER S.R. 45 (U.S.41)

REVISIONS		ROAD NO.	COUNTY	PROJECT NO.
Date	Description	S.R.681	SARASOTA	17005-3401
		DESIGNED BY	DATE	APPROVED BY
		M.R.S.	4-78	
		CHECKED BY	DATE	
		P.P.H.	6-78	
		QUANTITIES BY		
		CHECKED BY		
		SUPERVISOR		
				DEPUTY DESIGN ENGINEER, STRUCTURES
				DRAWING NO.
				INDEX NO.
				12-42
				11-80

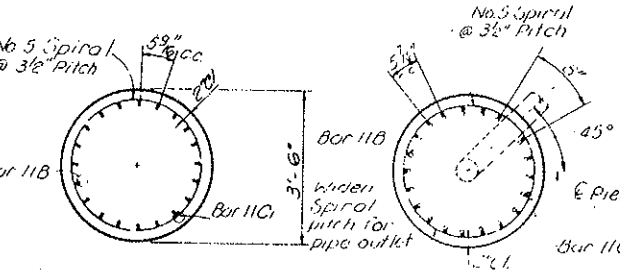
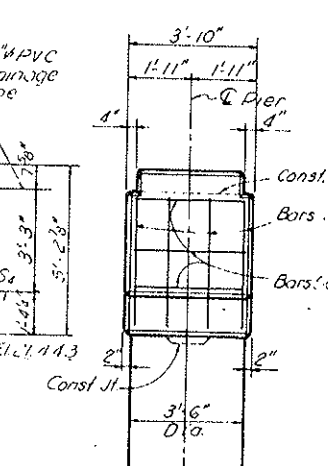
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.			A 14



NOTE: Reinforcing steel bars in cap may be moved if they interfere with anchor bolts.



NOTES FOR PIERS
DESIGN LOAD PER PILE: Driven to 75 Tons. Pile.
BEARING SURFACES: All bearing surfaces for Steel Shoes shall be finished level.
ANCHOR BOLTS: Set anchor bolts as shown in Bearing Details Sheets No. A-37 and No. A-38. All anchor bolts shall conform to ASTM A-307 or A-36.
CHAMFERS: All exposed concrete edges shall be chamfered 1/8" x 1/8".
BRIDGE DRAINAGE: For details, see Standard Sheet No. S-6.
PILES: All Piles shall be 18" Prestressed Concrete Piles. For Details, see Standard Sheet No. S-4.

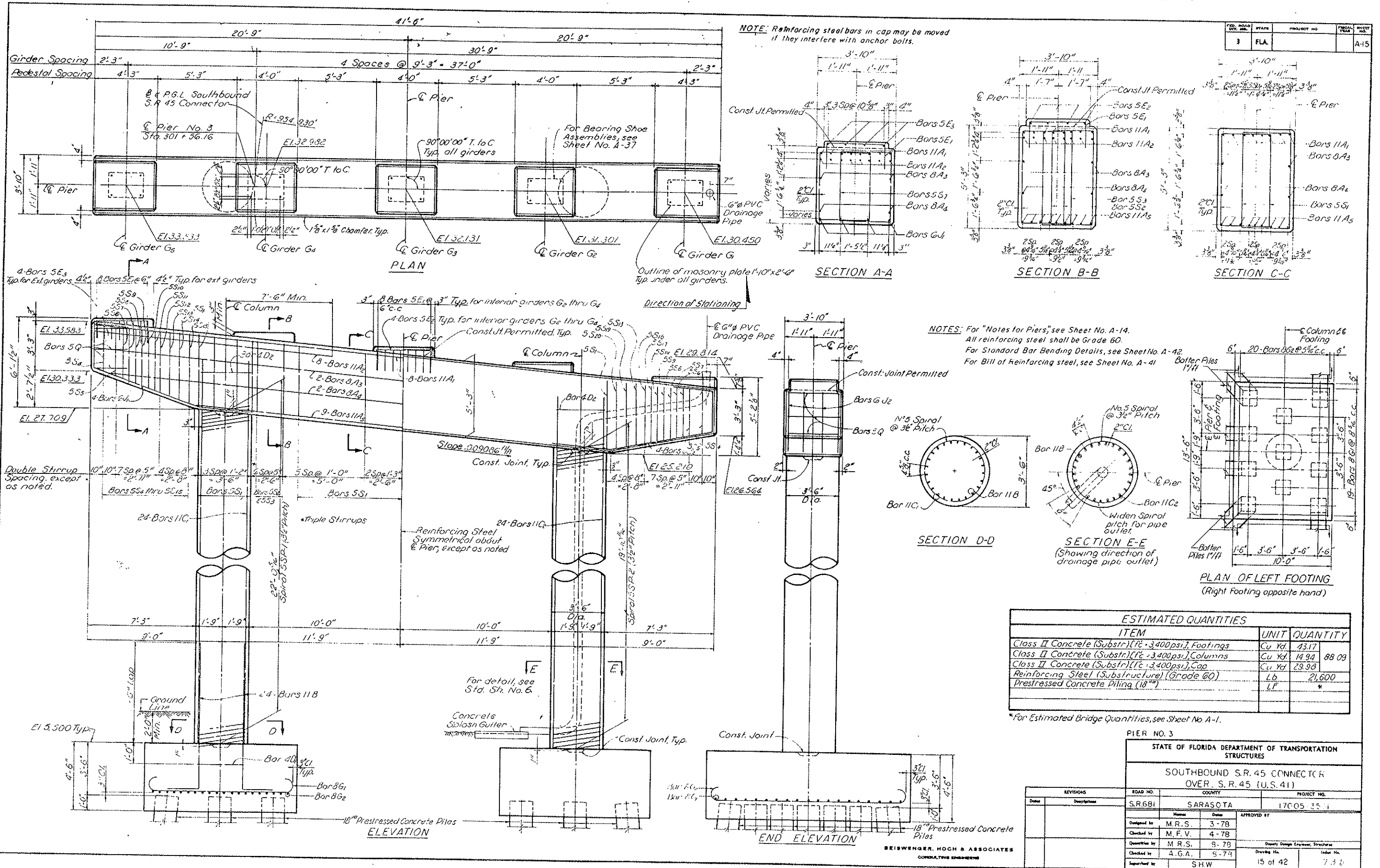


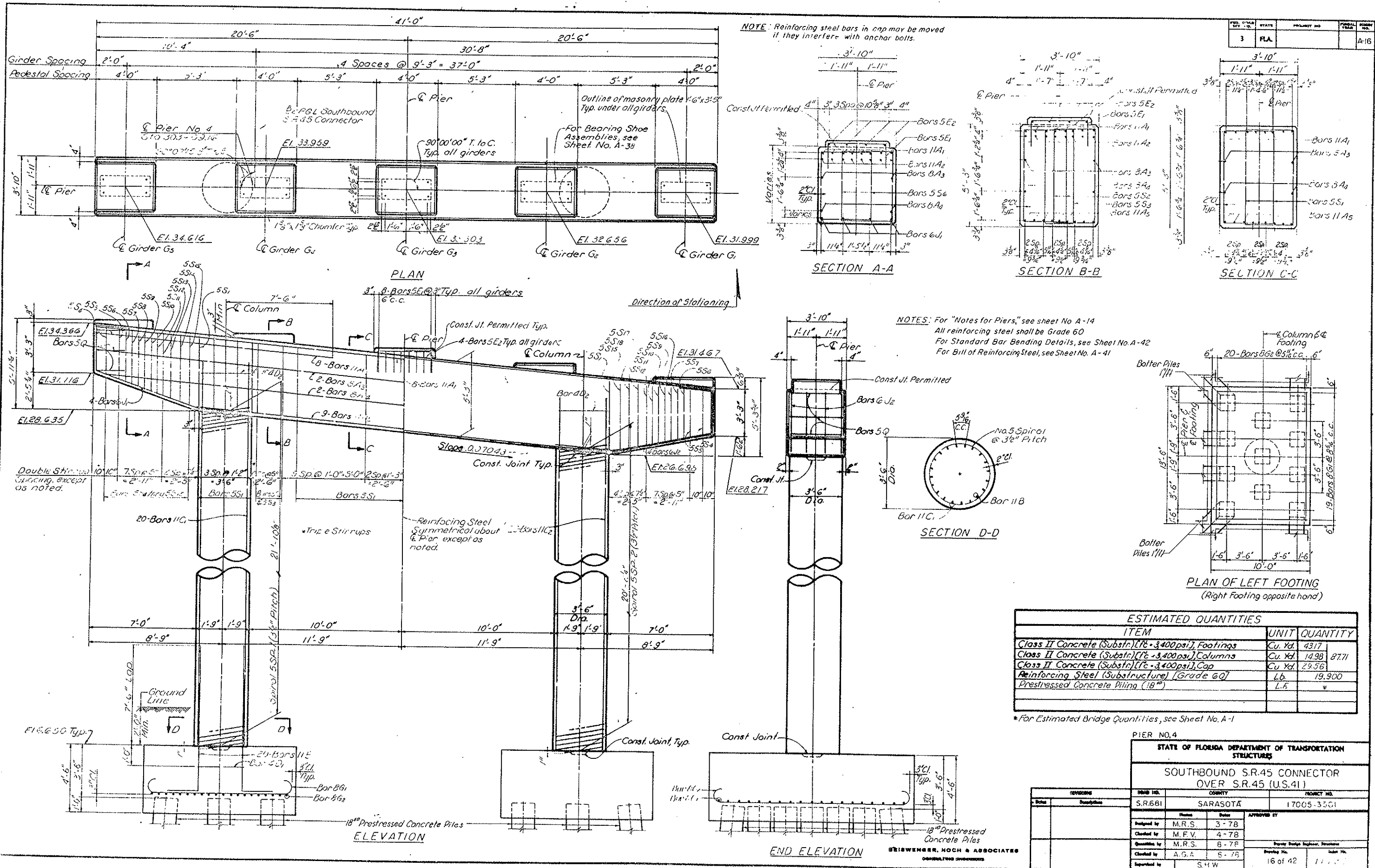
NOTE: All reinforcing steel shall be Grade 60.
 For Standard Bar Bending Details, see Sheet No. A-42.
 For Bill of Reinforcing Steel, see Sheet No. A-41.

ESTIMATED QUANTITIES	
ITEM	UNIT QUANTITY
Class II Concrete (Substr.) (f'c = 3,400 psi), Footings	Cu Yd. 4317
Class II Concrete (Substr.) (f'c = 3,400 psi), Columns	Cu Yd. 1128 84 43
Class II Concrete (Substr.) (f'c = 3,400 psi), Cap	Cu Yd. 2978
Reinforcing Steel (Substructure) (Grade 60)	Lb. 18,500
Prestressed Concrete Piling (18")	L.F. *

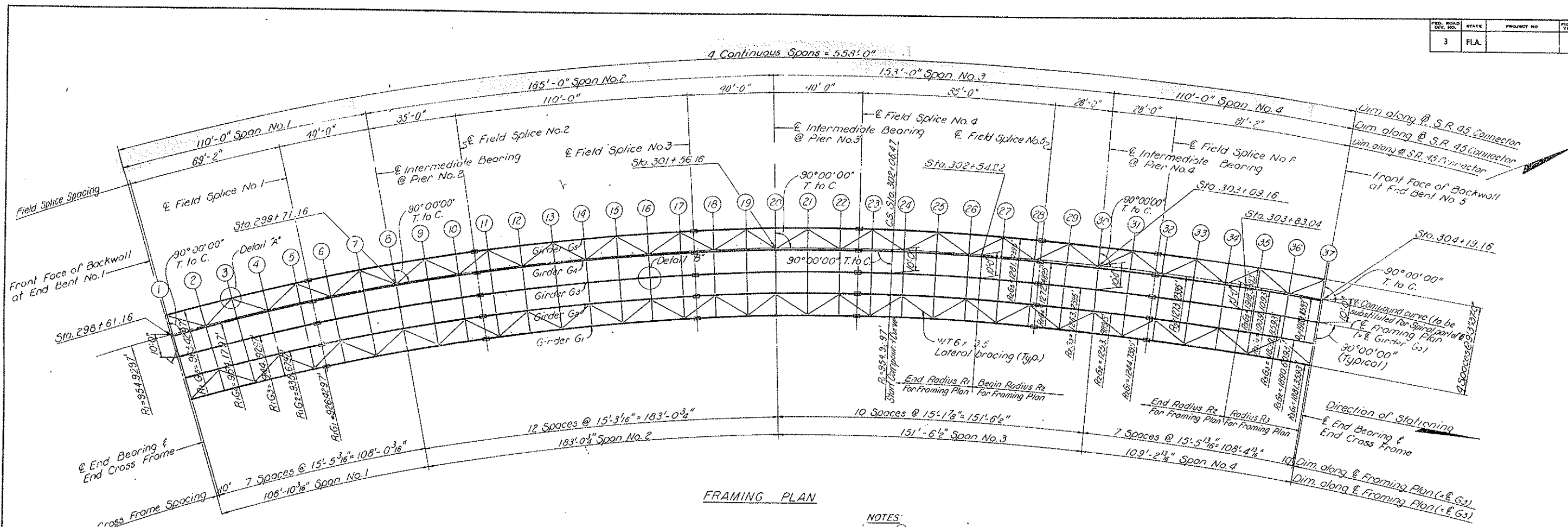
*For Estimated Bridge Quantities, see Sheet No. A-1

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES			
SOUTHBOUND SR 45 CONNECTOR OVER SR 45 (U.S. 41)			
ROAD NO.	COUNTY	PROJECT NO.	
SR 661	SARASOTA	17005 15 1	
DESIGNED BY	DATE	CHECKED BY	DATE
M.R.S.	3-78	M.F.V.	4-78
QUANTITIES BY	DATE	CHECKED BY	DATE
M.R.S.	5-78	AGA	5-78





3	FLA				A-23
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FRAMING PLAN

NOTES:

- Denotes Cross Frame number.
- All Girders shall be fabricated on three compound curves as shown on Framing Plan above For Relationship between E Framing Plan, E S.R.45 Connector and Compound Curves, see Detail on Sheet No. A-9.

GENERAL NOTES FOR STRUCTURAL STEEL

MATERIAL: All structural steel for superstructure shall conform to A.S.T.M. Specification A-36 or A-588 as noted. High strength bolts, nuts & washers shall meet all the mechanical properties of A.S.T.M. A-325 and be galvanized.

CONNECTIONS: All shop connections shall be welded. All field connections shall be made with 1" & 3/4" high strength bolts, friction type, open holes 1/16" & 1/8" except as noted.

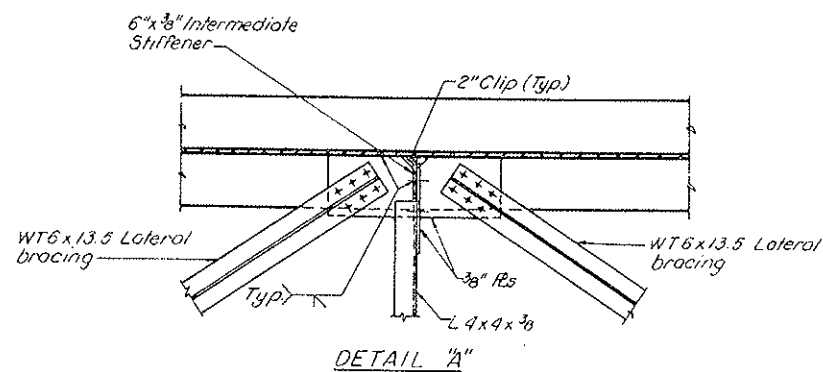
WELDING: The proportioning of weld details and the operation of welding shall be in accordance with the current edition of the AASHTO Standard Specifications for Welding of Structural Steel Highway Bridges, and the referenced American Welding Society Structural Welding Code.

PAINTING: All structural steel shall be painted in accordance with the Specifications. No paint shall be applied to surfaces that are to be encased in concrete.

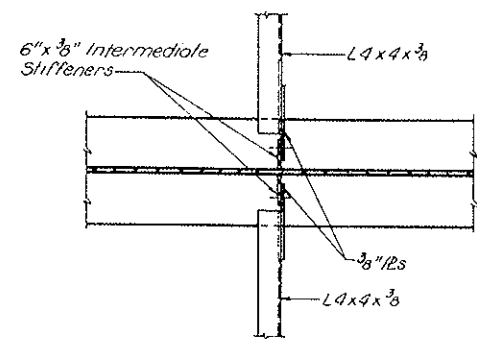
BEARING ASSEMBLIES (SHOES): Shall be hot-dip galvanized in accordance with the requirements of A.S.T.M. Specification A-123.

PAYMENT: Shoe assemblies, including sole plates and anchor bolts will be paid for at the contract lump sum price for "Structural Steel (Shoe Assemblies)". The cost of resilient pads for these bearings shall be included in the contract lump sum price for this item. The cost of high strength bolts & Shear Connector Studs shall be included in the contract lump sum price for "Structural Steel (Carbon)".

ENVIRONMENT: Non-Coastal.



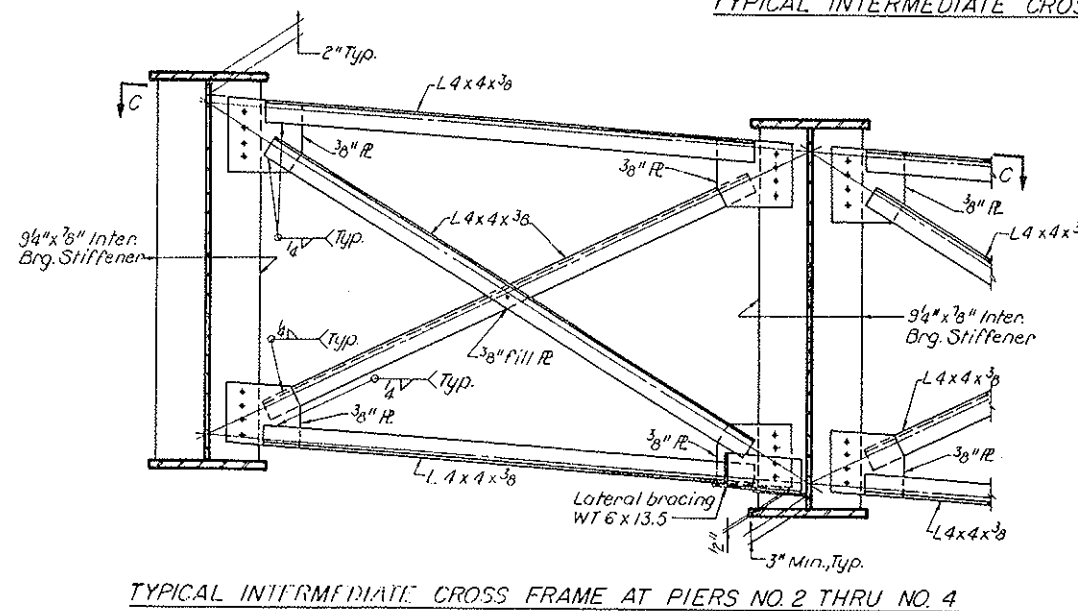
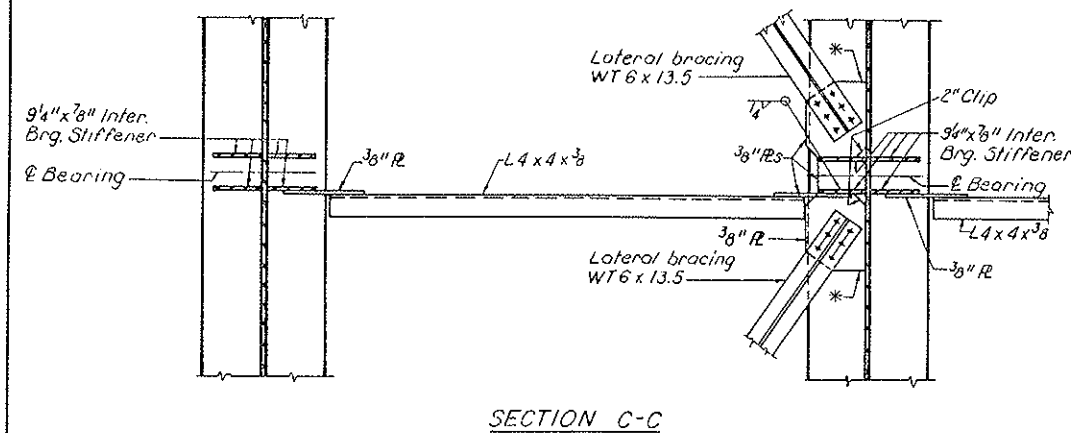
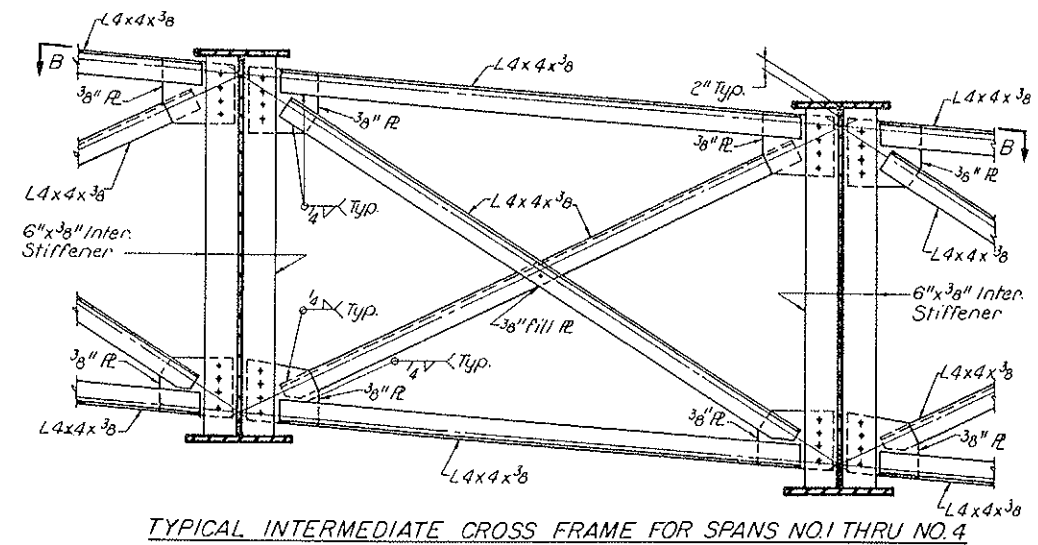
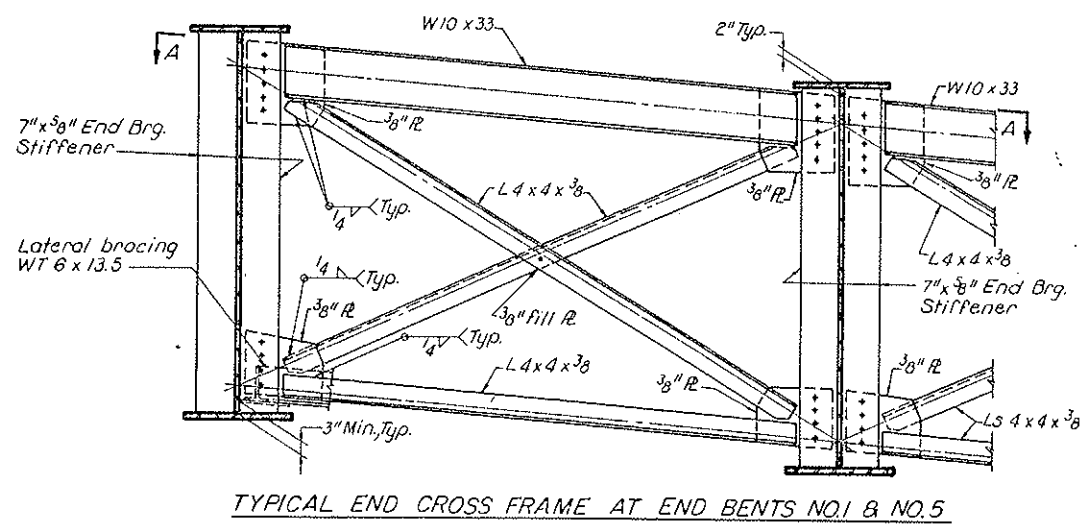
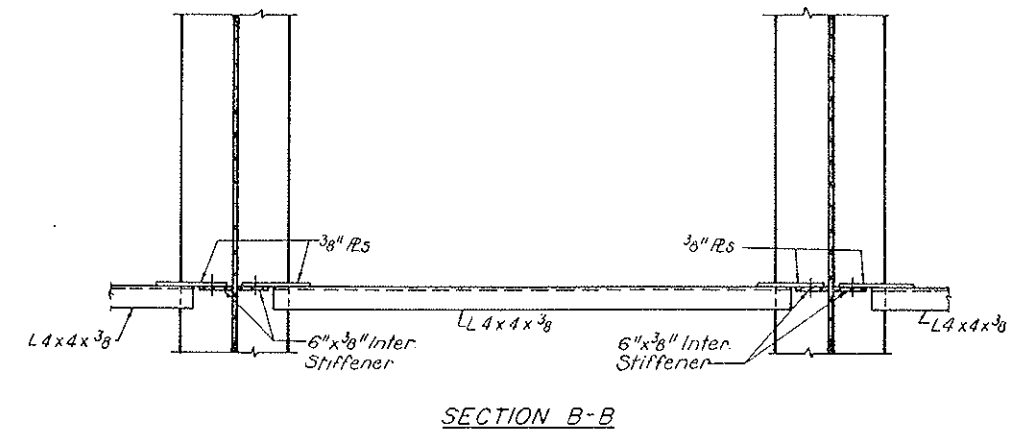
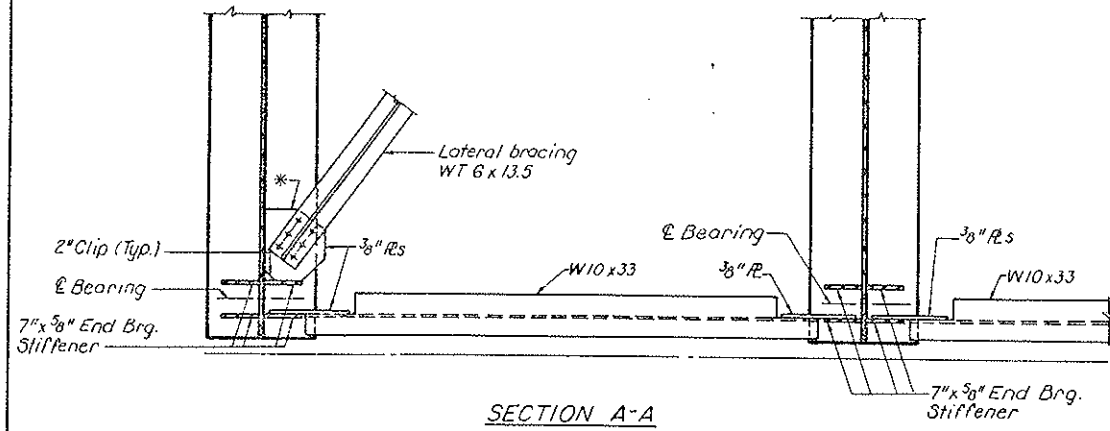
DETAIL "A"



DETAIL "B"

FRAMING PLAN			
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES			
SOUTHBOUND S.R.45 CONNECTOR OVER S.R.45 (U.S.41)			
ROAD NO.	COUNTY	PROJECT NO.	
S.R.681	SARASOTA	17005 - 35G1	
DESIGNED BY	CHECKED BY	DATE	APPROVED BY
R. A.	S. H. W.	2. 11.	
QUANTIFIED BY	CHECKED BY	DATE	
Submitted by S. H. W.			Checked by

FED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.			A-34



Note: 3/8" H.S. Bolts A-325 for Cross Frame connection plates to girder stiffeners.

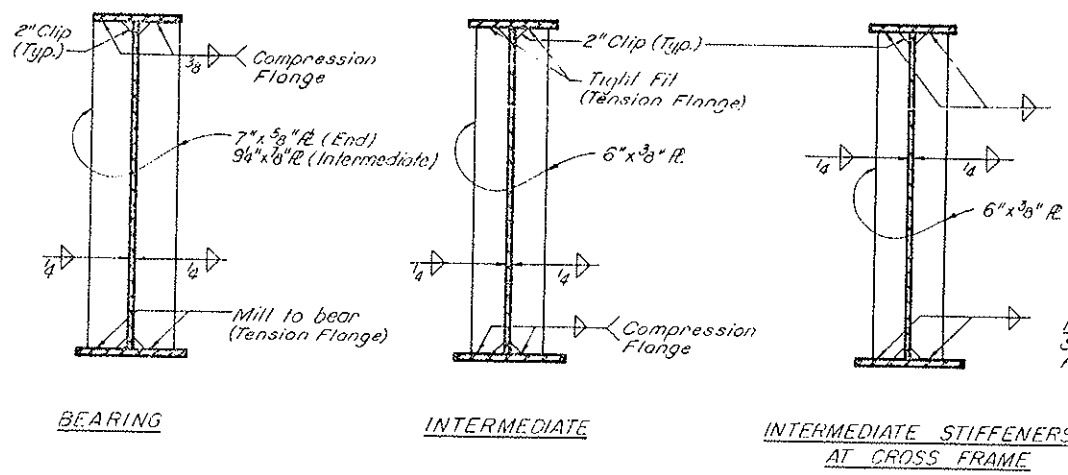
* Connections of lateral braces to girders to be beveled so the brace will be parallel to the plane of the laterals.

STEEL GIRDER DETAILS - (1)
 STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
 STRUCTURES
 SOUTHBOUND S.R. 45 CONNECTOR
 OVER S.R. 45 (U.S. 41)

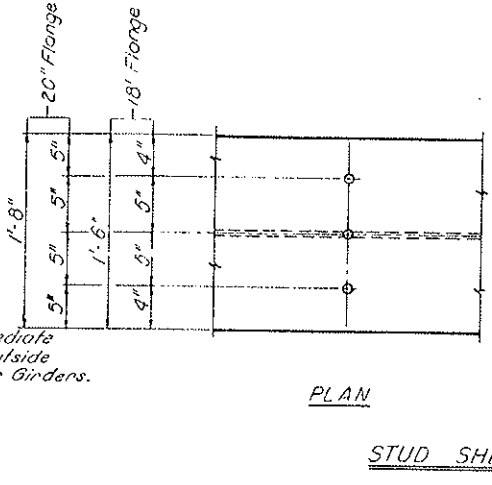
REVISIONS		ROAD NO.	COUNTY	PROJECT NO.
Date	Description	SR 681	SARASOTA	17005-3501
		Designed by	R. A.	2-78
		Checked by	S. H. W.	4-78
		Quantity by		
		Checked by		
		Submitted by	S. H. W.	
		Dessign Design Engineer, Structures		
		Drawing No.	34 of 42	Index No.
				11735

DEISWENGER, HOCH & ASSOCIATES
 CONSULTING ENGINEERS

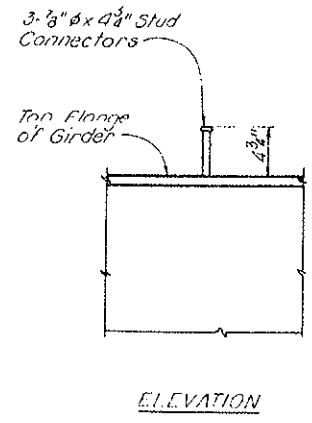
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.			A 35



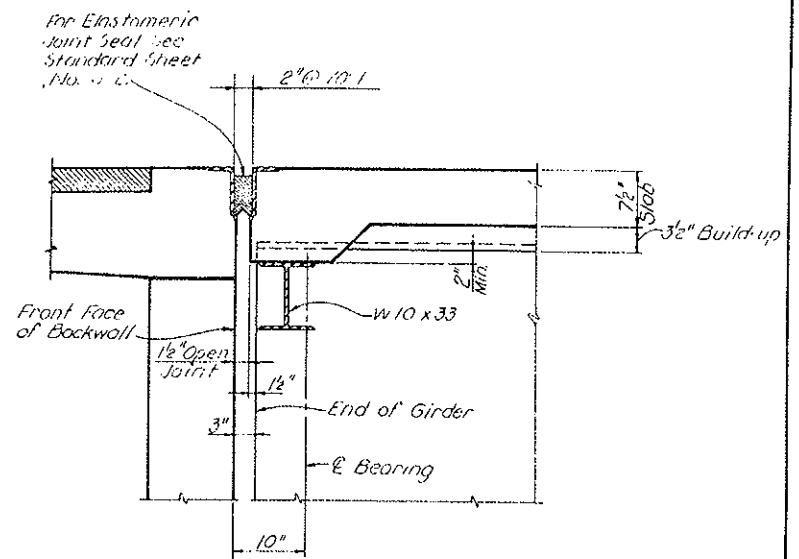
STIFFENERS DETAILS



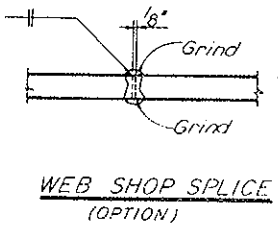
STUD SHEAR CONNECTOR



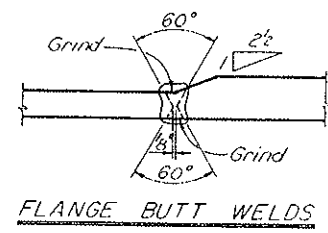
ELEVATION



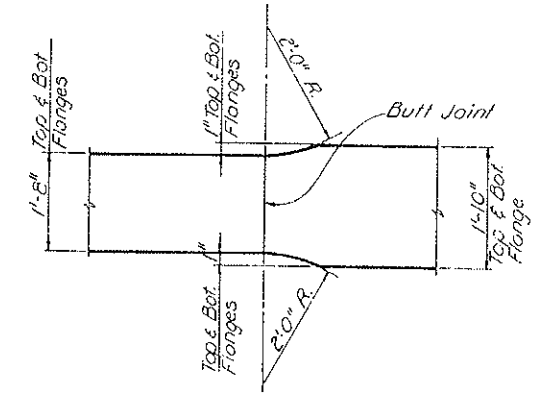
SECTION AT END BENTS NO. 1 & NO. 5



WEB SHOP SPLICE (OPTION)



FLANGE BUTT WELDS



WIDTH TRANSITION OF TOP & BOTTOM FLANGE

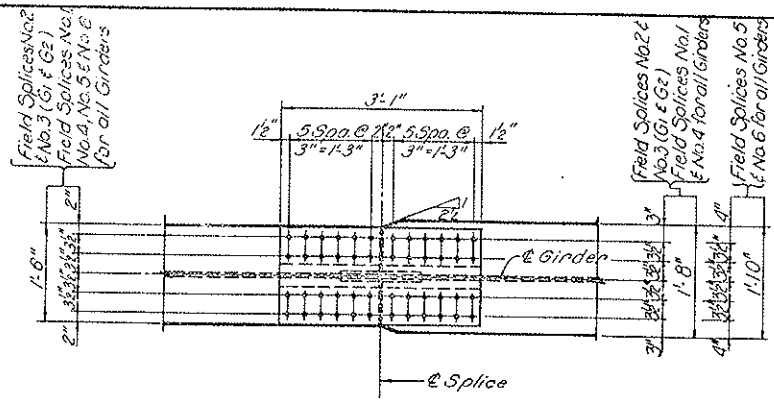
BEISWENGER, HOCH & ASSOCIATES
 CONSULTING ENGINEERS

STEEL GIRDER DETAILS - (2)
 STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
 STRUCTURES
 SOUTHBOUND S.R. 45 CONNECTOR
 OVER S.R. 45 (U.S. 41)

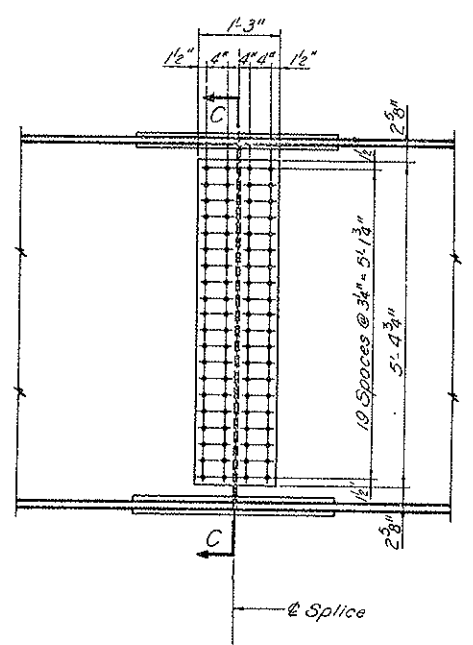
REVISIONS		ROAD NO.	COUNTY	PROJECT NO.
Date	Description	SR 681	SARASOTA	17005-3501
		Name	Date	APPROVED BY
		Designed by	R. A.	2-78
		Checked by	S. H. W.	4-78
		Quantity by		
		Checked by		
		Supervised by	S. H. W.	35 of 42
		Directly Under Engineer, Structures		Index No.
		Drawing No.		11135

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.			A-36

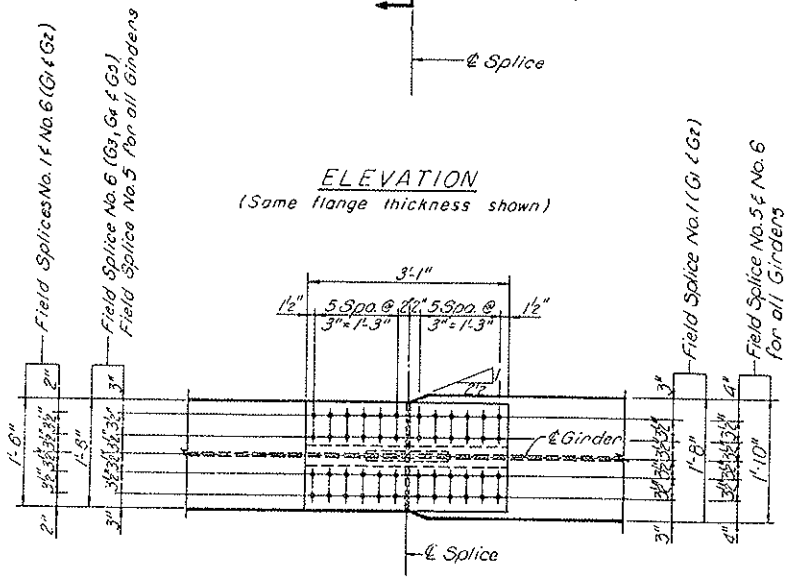
	LOCATION	FIELD SPLICE NO.1	FIELD SPLICE NO.2	FIELD SPLICE NO.3	FIELD SPLICE NO.4	FIELD SPLICE NO.5	FIELD SPLICE NO.6
Girder G ₁	Top Flange	18" x 5" x 1/6"	18" x 5" x 1/6"	18" x 5" x 1/6"	18" x 8" x 1/6"	18" x 8" x 1/6"	18" x 8" x 1/6"
	Bot. Flange	---	---	---	---	20" x 2" x 1/6"	18" x 2" x 1/6"
Girder G ₂	Top Flange	18" x 8" x 1/6"	18" x 8" x 1/6"	18" x 8" x 1/6"	18" x 8" x 1/6"	18" x 8" x 1/6"	18" x 8" x 1/6"
	Bot. Flange	---	---	---	---	20" x 2" x 1/6"	18" x 2" x 1/6"
Girder G ₃	Top Flange	18" x 8" x 1/6"	---	---	18" x 3/8" x 1/6"	18" x 3/8" x 1/6"	18" x 3/8" x 1/6"
	Bot. Flange	---	---	---	20" x 1/4" x 1/6"	20" x 3/8" x 1/6"	20" x 3/8" x 1/6"
Girder G ₄	Top Flange	18" x 8" x 1/6"	---	---	18" x 3/8" x 1/6"	18" x 3/8" x 1/6"	18" x 3/8" x 1/6"
	Bot. Flange	---	---	---	20" x 1/4" x 1/6"	20" x 3/8" x 1/6"	20" x 3/8" x 1/6"
Girder G ₅	Top Flange	18" x 8" x 1/6"	---	---	18" x 3/8" x 1/6"	18" x 3/8" x 1/6"	18" x 3/8" x 1/6"
	Bot. Flange	---	---	---	20" x 1/4" x 1/6"	20" x 3/8" x 1/6"	20" x 3/8" x 1/6"



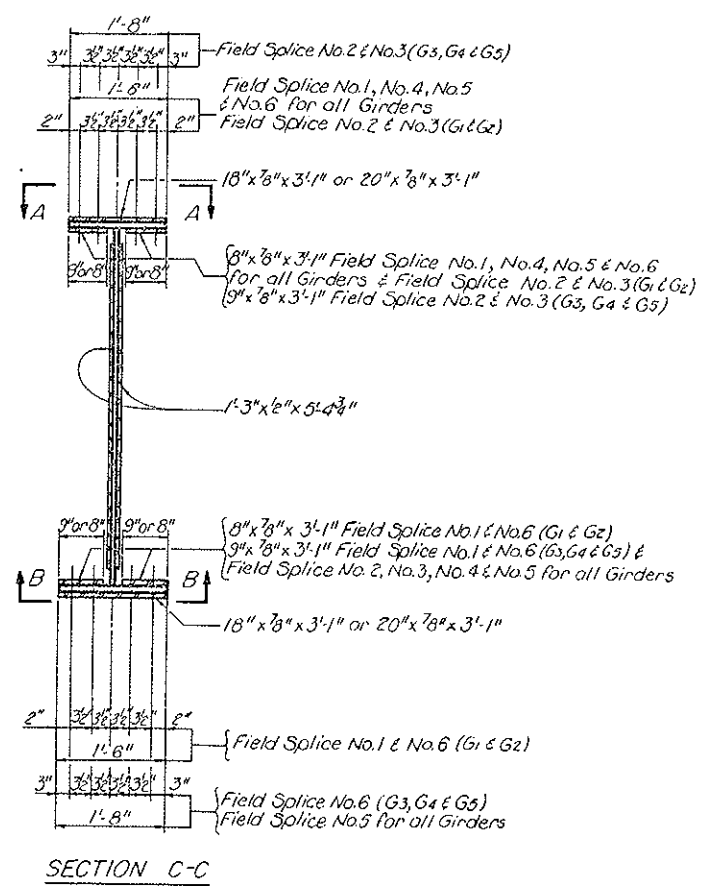
VIEW A-A
 (Different width of Top Flanges)



ELEVATION
 (Same flange thickness shown)

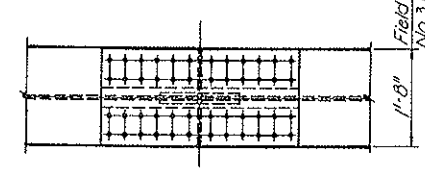


VIEW B-B
 (Different width of Bottom Flanges)

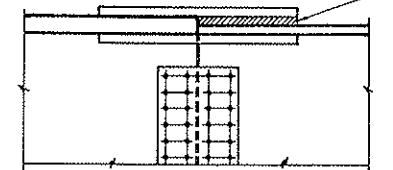


SECTION C-C

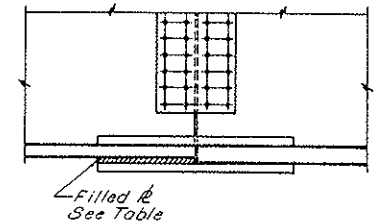
NOTES
 All parts of each field splice shall be completely shop assembled taking into account their relative position in the finished structure due to grade, camber and curvature. Sections shall be matchmarked while so assembled. All shop splices in flange or web plates shall be made prior to welding flange plates to web plates. All such proposed splices shall be indicated on the Shop Drawings. General reaming of holes for each field splice will be required while all parts of each splice are completely shop assembled in the correct position. All bolts shall be 1" high strength bolts (Friction Type). High strength bolts shall conform to the requirements of Specification Designation A-325 and shall be galvanized.



VIEW A-A
 (Same width of Top Flanges)



TOP FLANGE ELEVATION
 (Different thickness of Top Flanges)

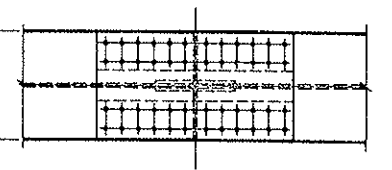


BOTTOM FLANGE ELEVATION
 (Different thickness of Bottom Flanges)

Field Splice No. 1 (G3, G4 & G5)
 Field Splice No. 2, No. 3, No. 4 & No. 5 for all Girders

Field Splice No. 2 & No. 3 (G3, G4 & G5)

Field Splice No. 1 & No. 6 (G1 & G2)

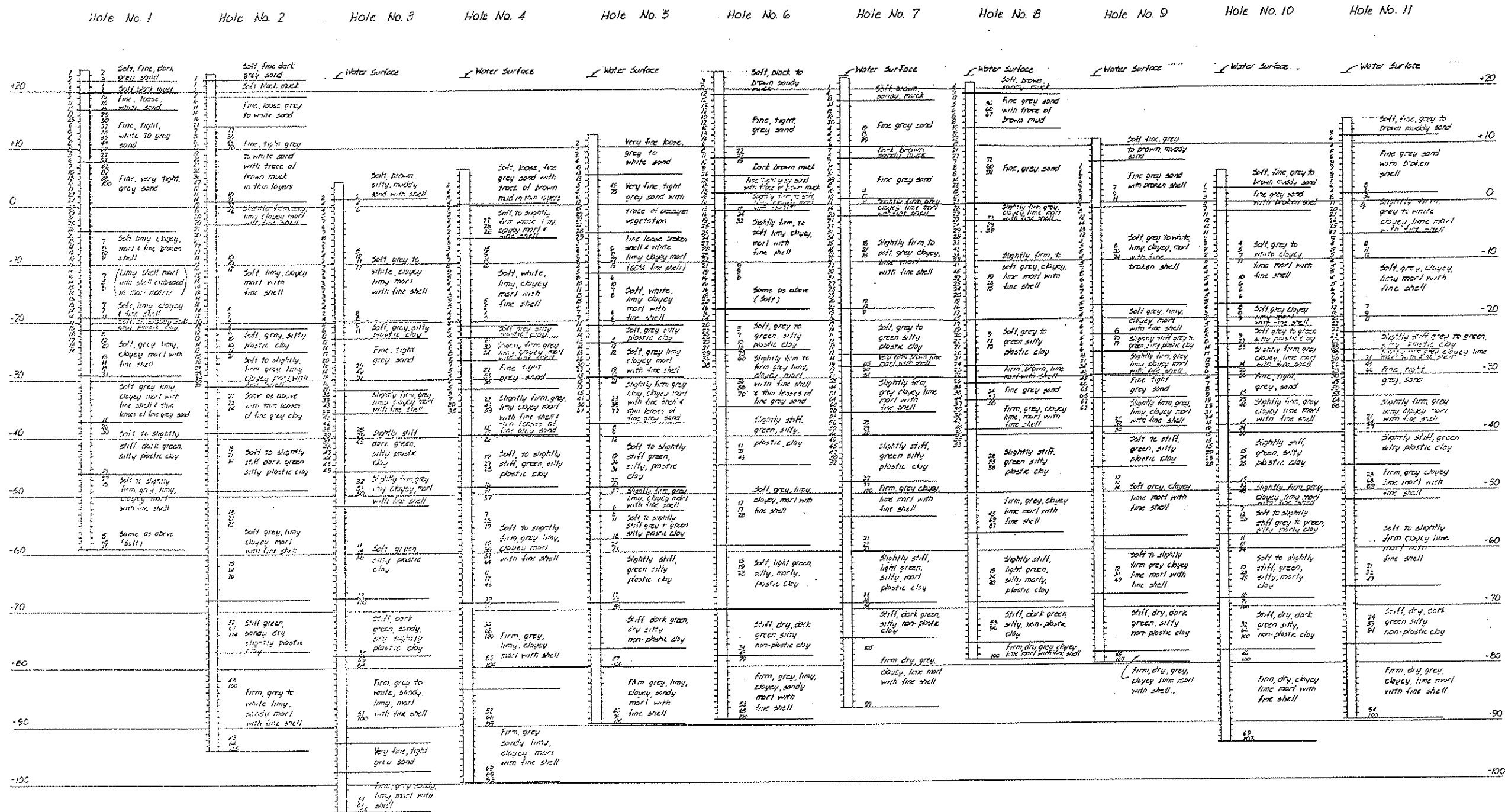


VIEW B-B
 (Same width of Bottom Flanges)

FIELD SPLICE NO. 1 THRU NO. 6
 Note: 1" H.S. Bolts A-325 For Field Splice Connection

BEISWENGER, HOCH & ASSOCIATES
 CONSULTING ENGINEERS

FIELD SPLICES			
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES			
SOUTHBOUND S.R.45 CONNECTOR OVER S.R.45 (U.S. 41)			
ROAD NO.	COUNTY	PROJECT NO.	
S.R.61	SARASOTA	17005-3501	
DESIGNED BY	DATE	APPROVED BY	
R. A.	2-78	S. H. W.	
CHECKED BY	DATE	DESIGNED BY	
S. H. W.	6-78	S. H. W.	
QUANTITIES BY	DATE	DRAWING NO.	
---	---	36 of 42	
CHECKED BY	DATE	INDEX NO.	
---	---	---	
SUPERVISOR BY	DATE	---	
S. H. W.	---	---	



General Data

Date: 11-20-64 Thru 12-17-64
 Contractor: State Core Drill Unit
 Type of Rig: Sullivan HD-22
 Casing: Inside Diameter 2.5"
 Outside Diameter 2.9"
 Weight of Hammer 490#
 Average Drop of Hammer 24"
 Spoon: Inside Diameter 1.5" 5' long
 Outside Diameter 2.0" 5' long
 Weight of Hammer 140#
 Average Drop of Hammer 30" *
 * Except for Hole No. 9 Which Was 24"

Numbers at left of Boring Columns are blows per foot on Casing at Elevations shown.
 Numbers at right of Boring Columns are blows per foot on Spoon at Elevations shown.

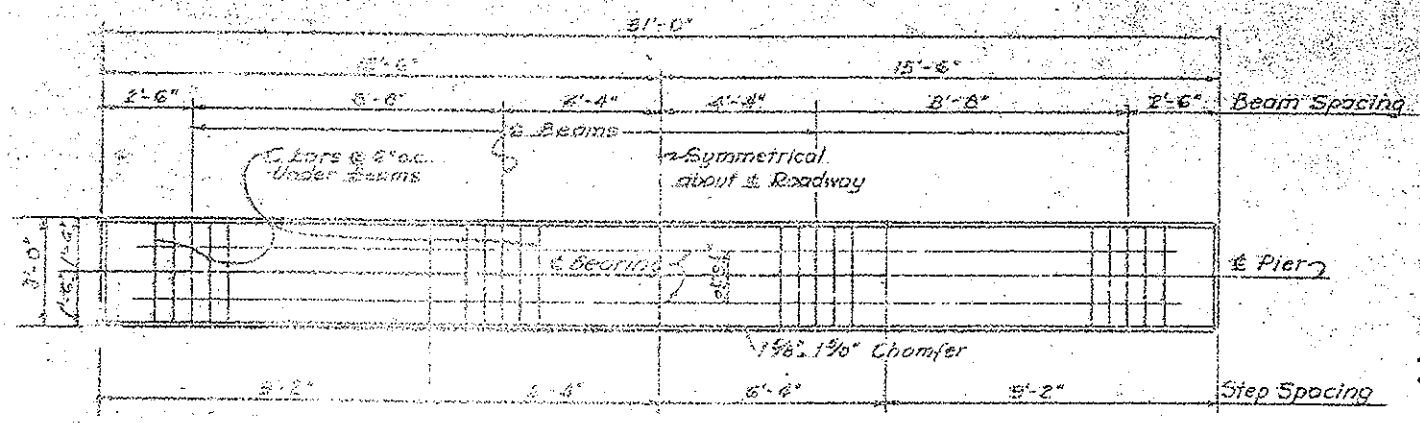
Vertical Scale : 1" = 10'

Note: For Boring locations see Sheets B-1 and B-20

BORING LOGS

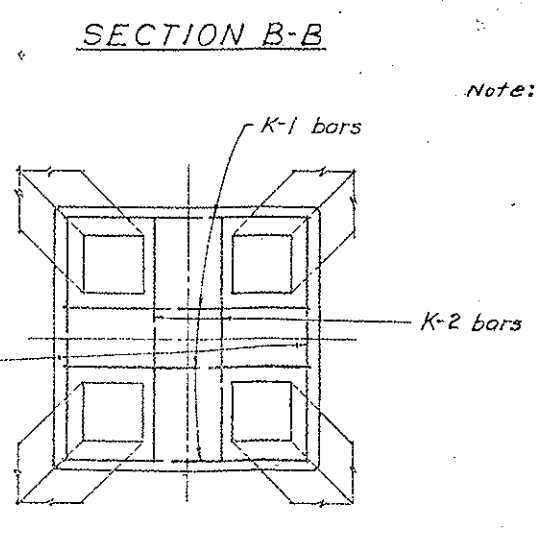
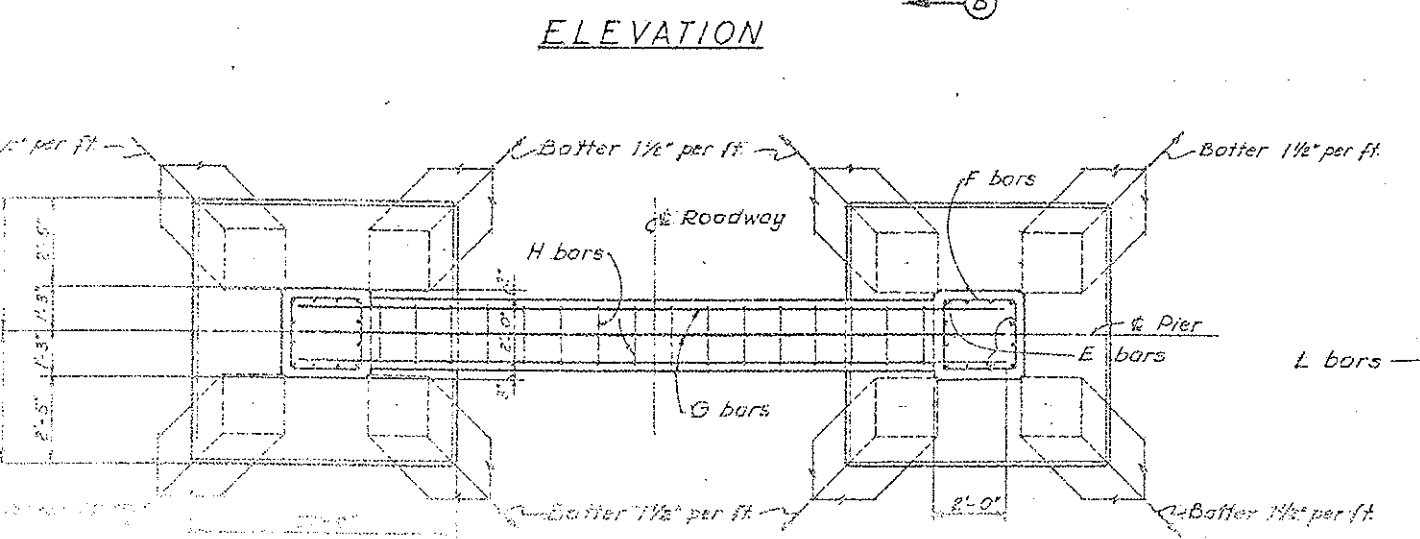
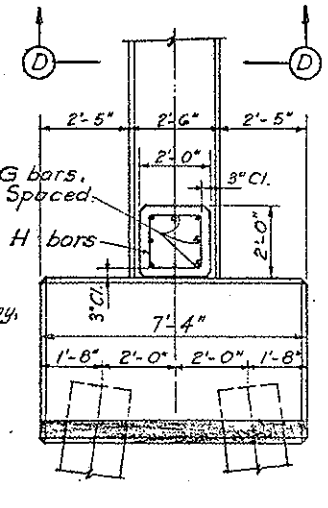
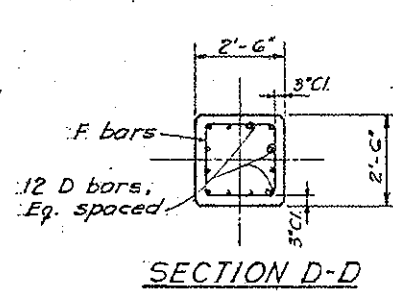
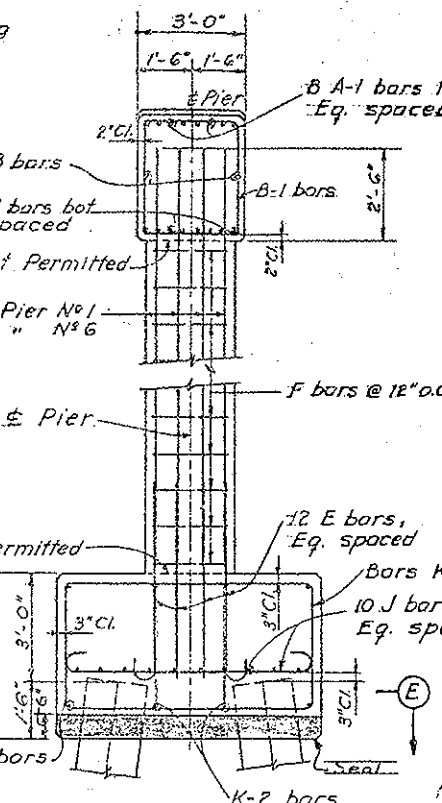
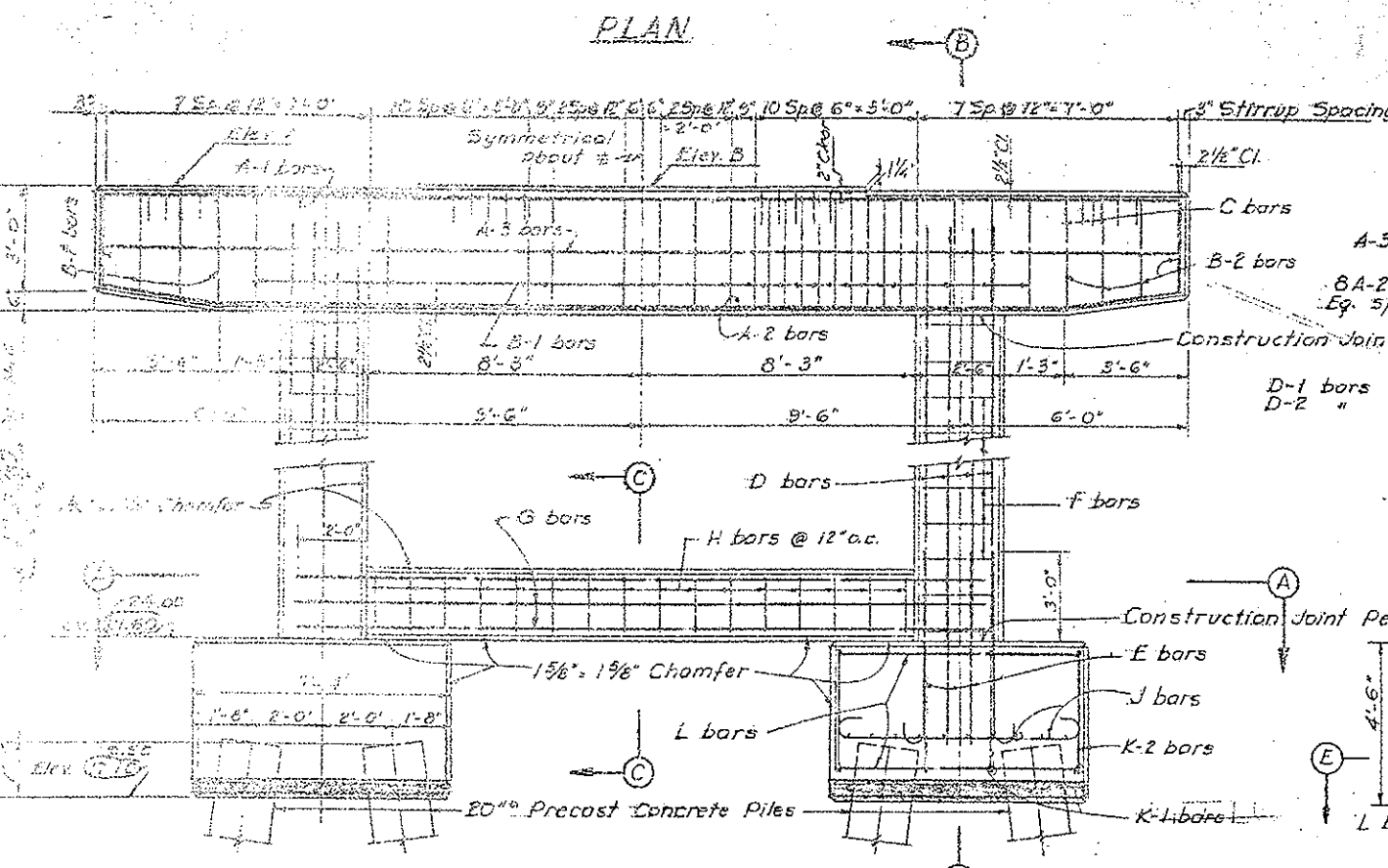
STATE ROAD DEPARTMENT OF FLORIDA
 BRIDGE ON S.R. 70
 OVER KISSIMMEE RIVER

REVISIONS		ROAD NO.	COUNTY	PROJECT NO.
Date	Descriptions	S.R. 70	OKEECHOBEE	91070-3502
		APPROVED BY		
		Name	Date	
		Detailed by	S.J.H.	1-65
		Checked by	R.A.R.	1-65
		Quantity by		Assistant State High
		Traced by		
		Drawing No.	3 of 23	Index
				875

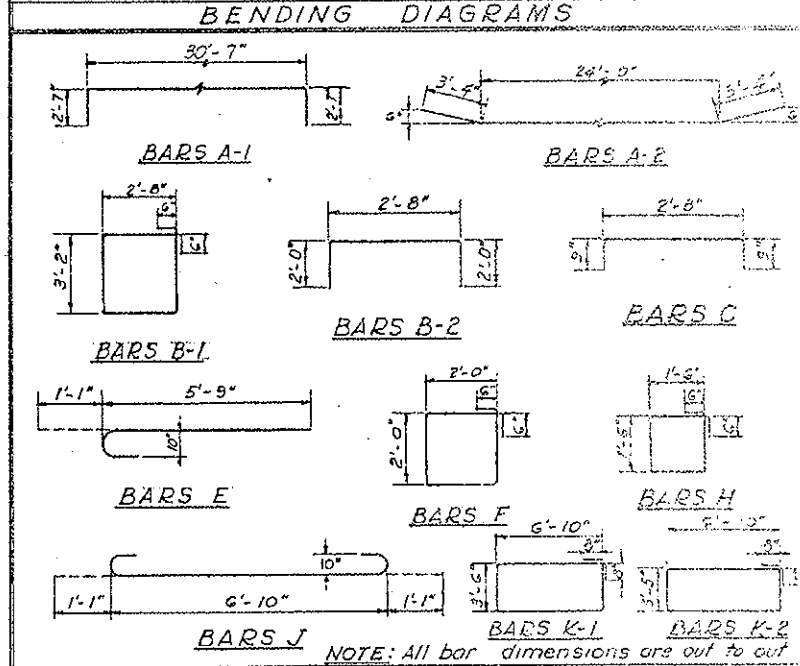


ELEVATIONS		
POINT	PIER NO 1	PIER NO 6
A	37.73	36.83
B	37.87	36.97

Elevations A and B are of piers



BILL OF REINFORCING STEEL					
MARK	SIZE	No. REQD. per PIER		LENGTH	BENDING
		No. 1	No. 6		
A-1	9	8	8	35'-9"	See diagram
A-2	9	8	8	30'-8"	" "
A-3	9	2	2	30'-7"	Straight
B-1	4	34	34	12'-8"	See diagram
B-2	4	16	16	6'-8"	" "
C	4	20	20	4'-2"	" "
D-1	8	24	24	15'-2"	Straight
D-2	8	24	24	14'-3"	" "
E	8	24	24	6'-10"	See diagram
F	4	22	22	9'-0"	" "
G	8	8	8	20'-6"	Straight
H	4	17	17	7'-0"	See diagram
J	8	40	40	9'-0"	" "
K-1	5	8	8	22'-0"	" "
K-2	5	4	4	21'-10"	" "
L	5	8	8	6'-10"	Straight



ESTIMATED QUANTITIES			
ITEM	UNIT	QUANTITY	
		PIER 1 & 6	PIER 11 & 12
Class "A" Concrete	Cu. Yd.	670.35	670.35
Reinforcing Steel	Lb.	6,806	6,738
Precast Concrete Piling (20")	Lin. Ft.	2,527	2,527

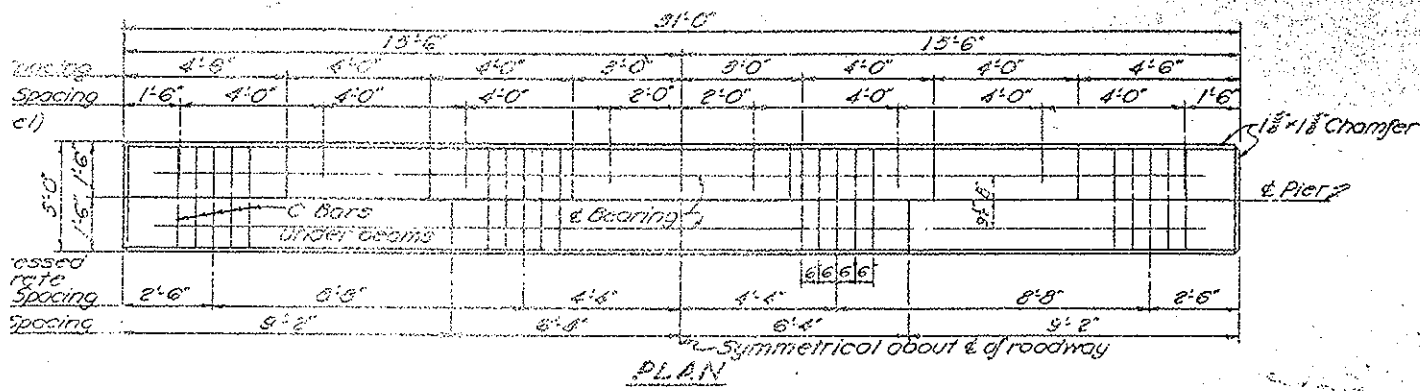
Note: Seal Concrete shall be Class "A" and may at the option of the contractor be either poured simultaneously with the pier footing or prior to placing the footing concrete.



* See Estimated Bridge Quantities
GENERAL NOTES
 ANCHOR BOLTS: Set anchor bolts as shown on prestressed beam deck.
 BEARING SURFACES: All bearing surfaces for prestressed beams shall be finished to plane parallel to the bottom of the beams.
PIERS NO 1 AND 6

STATE ROAD DEPARTMENT OF FLORIDA BRIDGE DIVISION			
BRIDGE ON S.R. 70 OVER KISSIMMEE RIVER			
REVISIONS	ROAD NO.	COUNTY	PROJECT NO.
Date: 3-24-65 Description: Revised Footings by E.A. Revised concrete details E.A. 3/24/65	S.R. 70	OKEECHOBEE	91070-3502
Checked by: G.A.R.	Date: 9/64	APPROVED BY:	

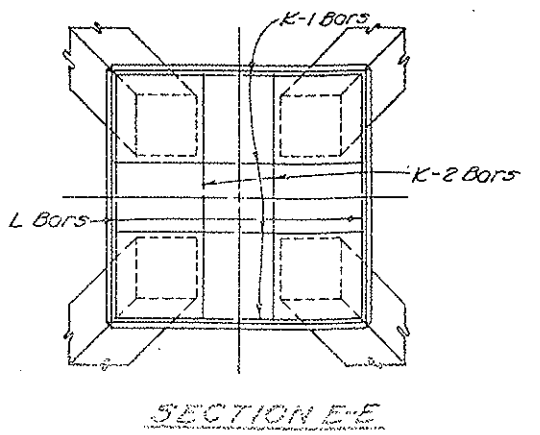
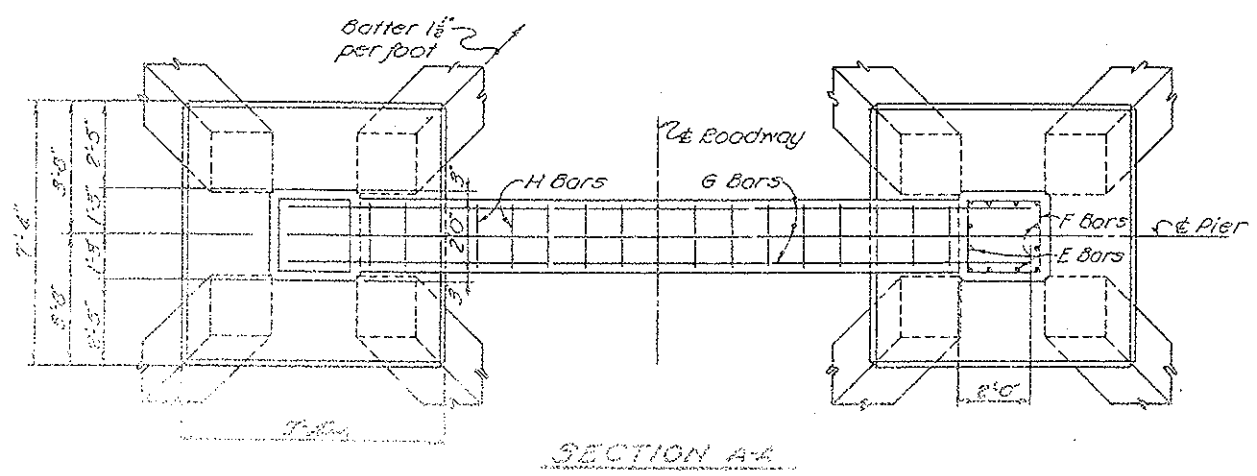
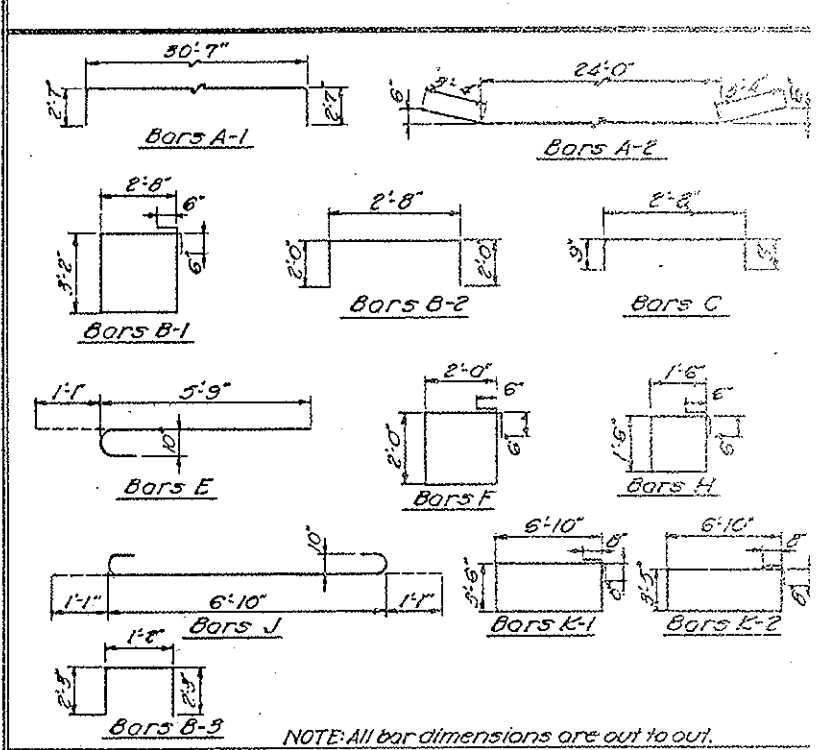
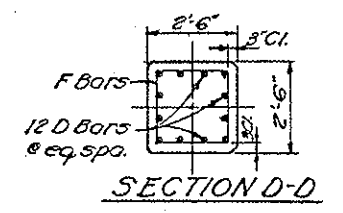
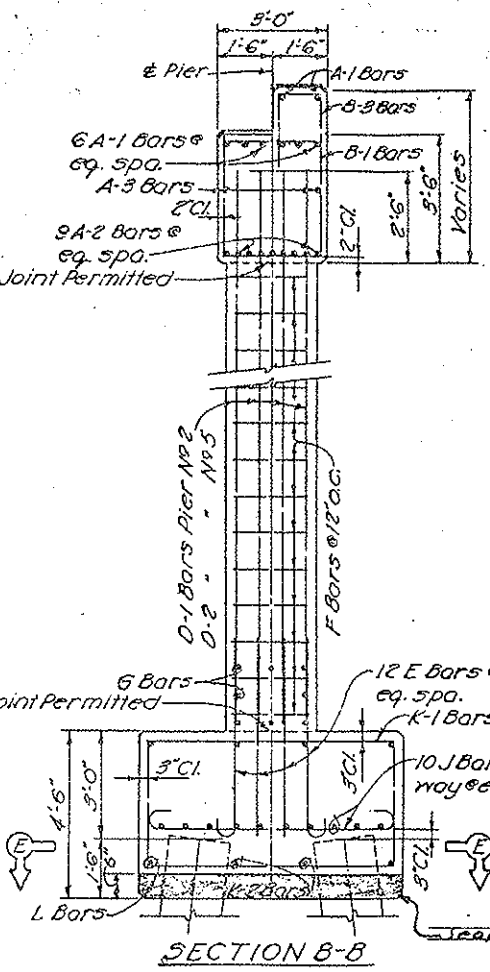
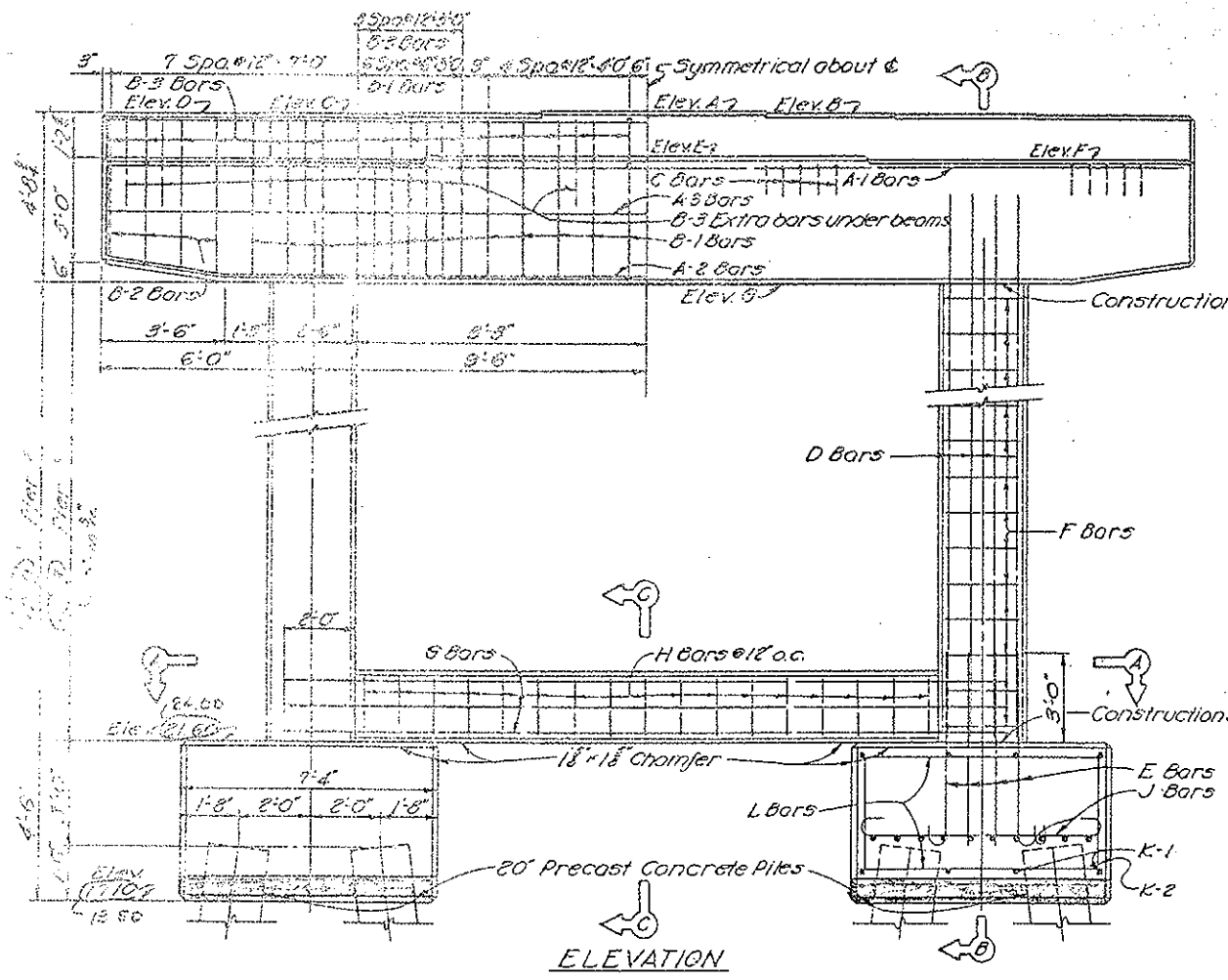
EXISTING BRIDGE PLANS-FOR INFORMATION ONLY
 FPID 413817-1-52-01
 DRAWING NO. BX3-4



	A	B	C	D	E	F	G
PIER 2	39.52	39.25	39.19	39.15	38.03	37.90	34.40
PIER 5	38.78	38.71	38.65	38.59	37.49	37.36	33.86

Elevations A, B, C, D, E, F @ & of Piers.

Mark	Size	No. Req'd per Pier		Length	Bending
		No. 2	No. 5		
A-1	9	8	8	35'-9"	See diagram
A-2	9	9	9	30'-8"	"
A-3	9	2	2	30'-7"	Straight
B-1	4	30	30	12'-8"	See diagram
B-2	4	16	16	6'-8"	"
B-3	4	46	46	5'-8"	"
C	4	20	20	4'-2"	"
D-1	8	24	12-11	15'-7"	Straight
D-2	8	24	24	12'-9"	12'-4"
E	8	24	24	6'-10"	See diagram
F	4	20	20	9'-0"	"
G	8	8	8	20'-6"	Straight
H	4	17	17	7'-0"	See diagram
J	8	40	40	9'-0"	"
K-1	5	8	8	22'-0"	"
K-2	5	4	4	21'-10"	"
L	5	8	8	6'-10"	Straight



BEST AVAILABLE ORIGINAL

FOOT

JUN 13 2007

ENGINEERING

GENERAL NOTES

ANCHOR BOLTS: Set anchor bolts as shown on prestressed and steel beam details.

BEARING SURFACES: All beam bearing surfaces shall be finished to a plane parallel to the bottom of the beams for prestressed beams. Bearing surfaces for steel beams to be level.

ITEM	UNIT	QUANTITY	PIER NO. 2	PIER NO. 5
Class A Concrete	Cu. Yd.	69.338	69.338	69.338
Reinforcing Steel	Lb.	6069	6069	6022
Precast Concrete Piling (20" dia)	Lin. ft.	*5662	*5662	*5662

*See Estimated Bridge Quantities

PIERS No 2 and 5

STATE ROAD DEPARTMENT OF FLORIDA
BRIDGE DIVISION

BRIDGE ON S.R. 70
OVER KISSIMMEE RIVER

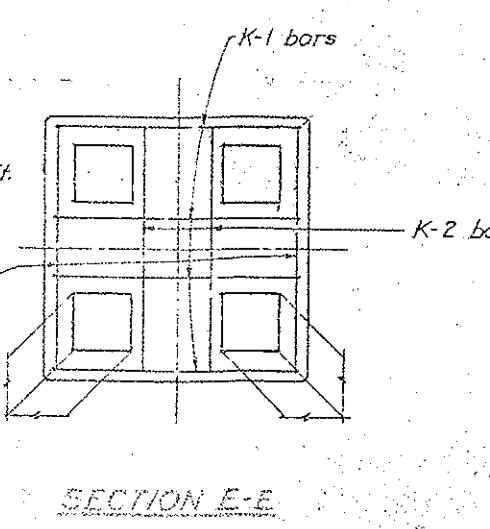
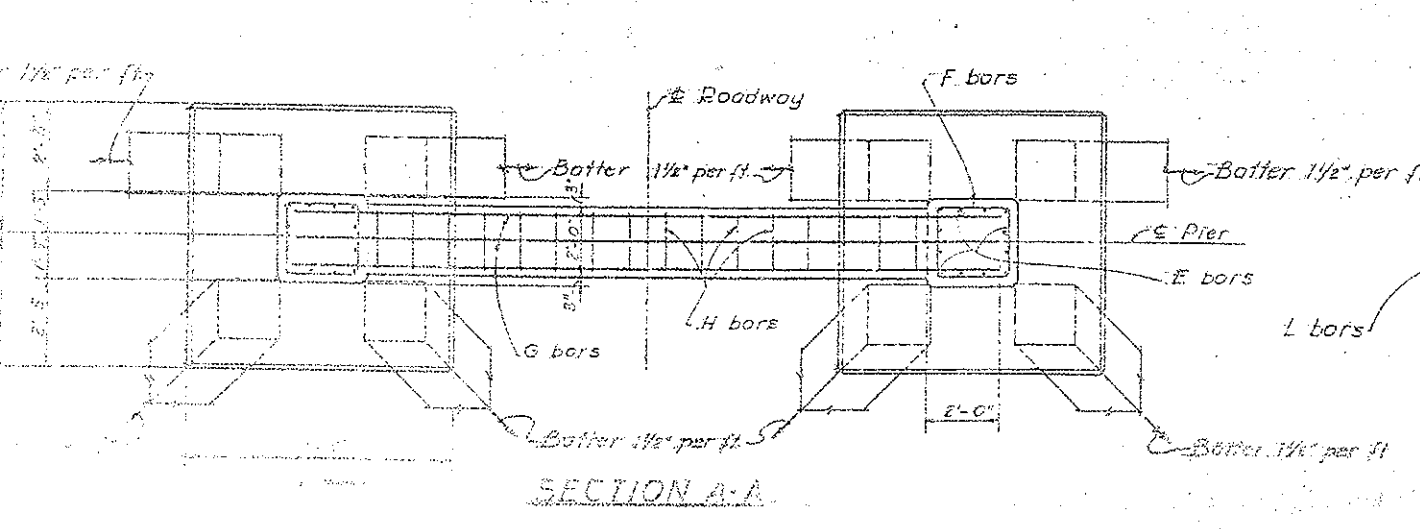
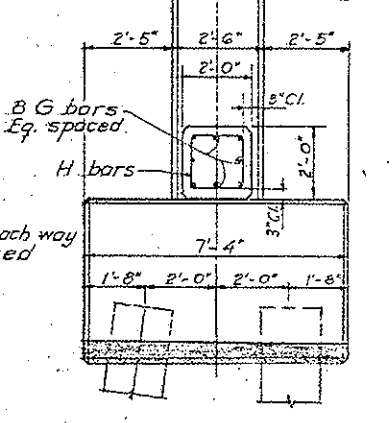
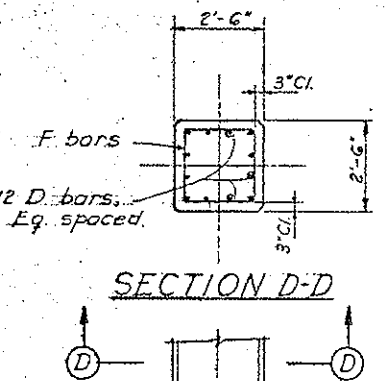
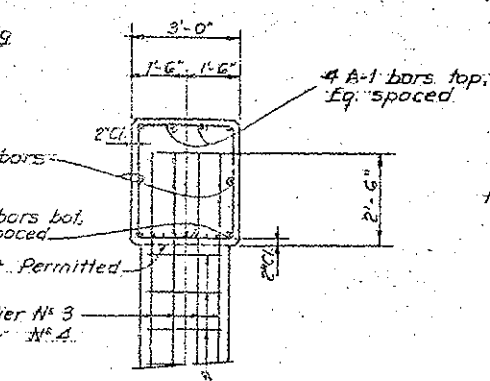
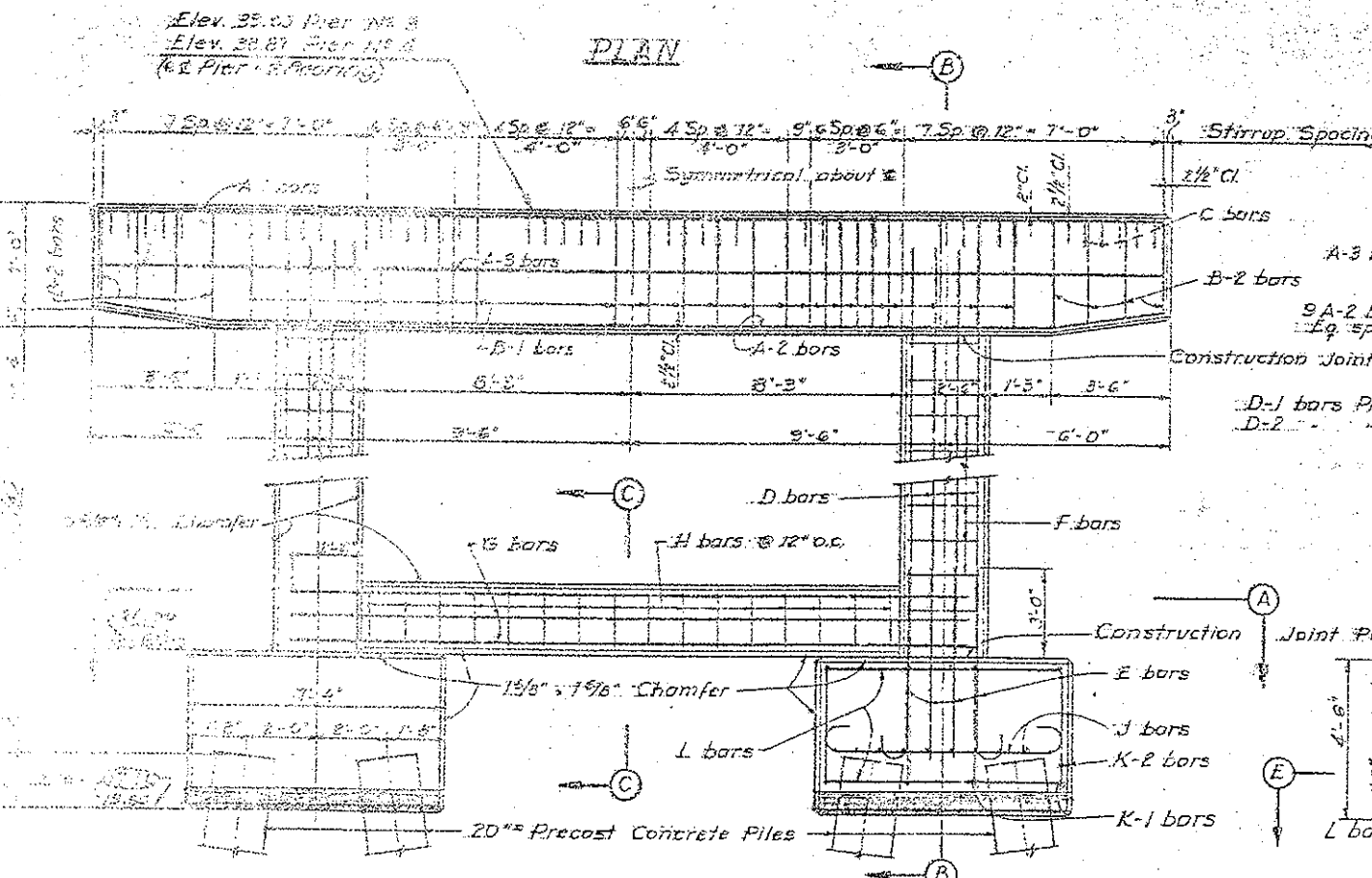
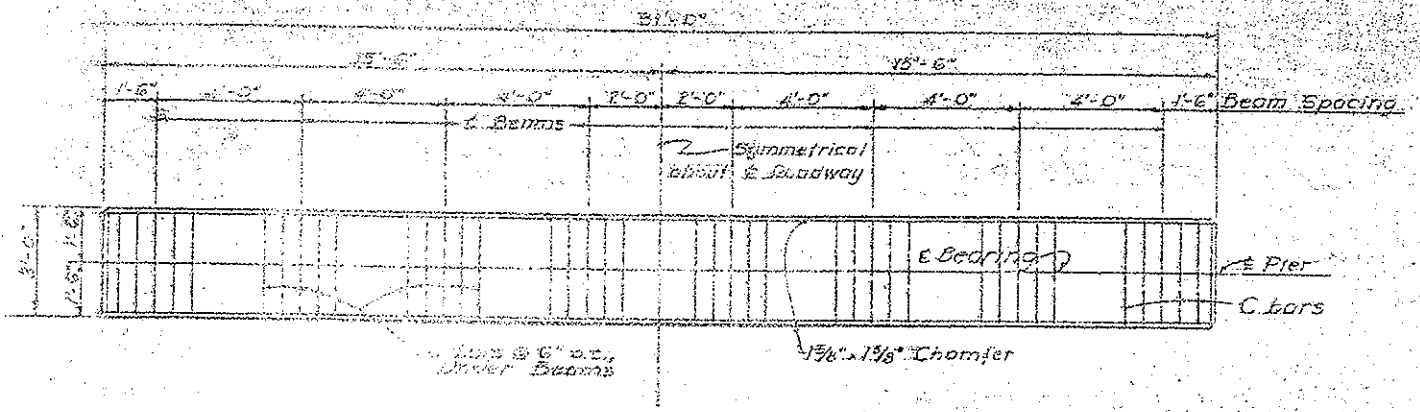
REVISIONS	ROAD NO.	COUNTY	PROJECT NO.
Date	Description	S.R. 70	OKEECHOBEE 91070-3502
3-24-65	Raised footings by 2'-9"	Revised	Revised
3-18-65	Reduced conc. & steel	Revised	Revised
3-18-65	Revised	Revised	Revised

APPROVED BY: R.E.P. 1-65

EXISTING BRIDGE PLANS-FOR INFORMATION ONLY

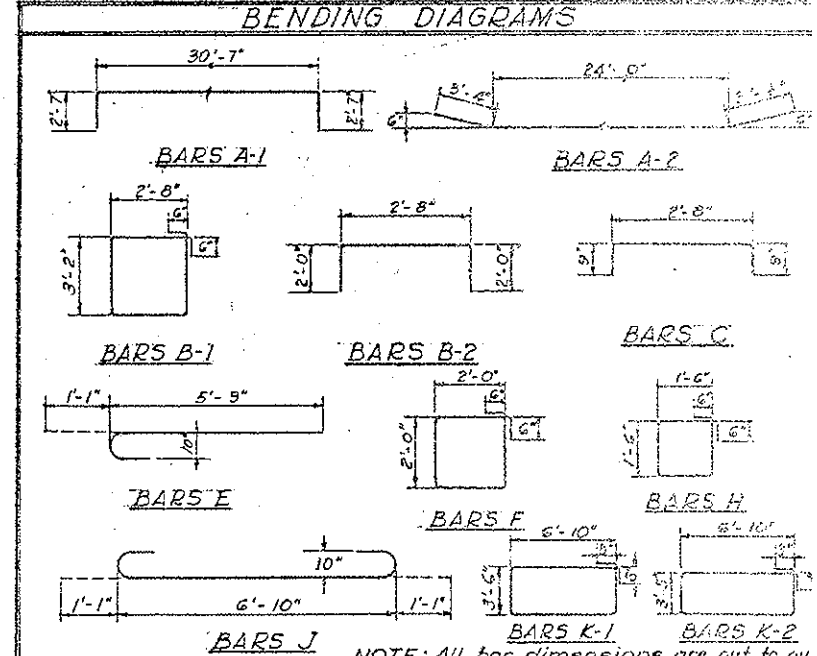
FPID 413817-1-52-01

DRAWING NO. BX3-5



BILL OF REINFORCING STEEL

MARK	SIZE	NO. REQD. PER PIER		LENGTH	BENDING
		No. 3	No. 4		
A-1	9	4	4	35'-9"	See diagram
A-2	9	9	9	30'-8"	" "
A-3	9	2	2	30'-7"	Straight
B-1	4	30	30	12'-8"	See diagram
B-2	4	16	16	6'-8"	" "
C	4	40	40	4'-2"	" "
D-1	8	24	24	16'-6"	Straight
D-2	8	—	24	16'-2"	" "
E	8	24	24	6'-10"	See diagram
F	4	24	24	9'-0"	" "
G	8	8	8	20'-6"	Straight
H	4	17	17	7'-0"	See diagram
J	8	40	40	9'-0"	" "
K-1	5	8	8	22'-0"	" "
K-2	5	4	4	21'-10"	" "
L	5	8	8	6'-10"	Straight



ESTIMATED QUANTITIES

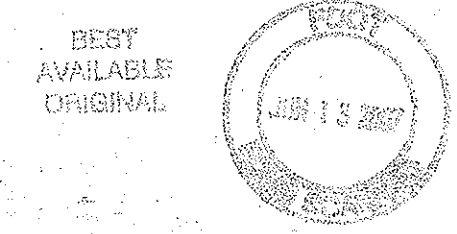
ITEM	UNIT	QUANTITY	
		PIER NO. 3	PIER NO. 4
Class "A" Concrete	Cu. Yd.	67.0	67.3
Reinforcing Steel	Lb.	6,533	6,533
Precast Concrete Piling (20")	Lin. Ft.	*536	*536

* See Estimated Bridge Quantities

GENERAL NOTES

ANCHOR BOLTS: Set anchor bolts as shown on steel beam details.

BEARING SURFACES: All beam bearing surfaces shall be finished to a level plane.



PIERS No. 3 AND 4

STATE ROAD DEPARTMENT OF FLORIDA
BRIDGE DIVISION

BRIDGE ON S.R. 70
OVER KISSIMMEE RIVER

ROAD NO.	S.R. 70	COUNTY	OSCEOLA	PROJECT NO.	91070-3502
DESIGNED BY	G. A. R.	DATE	9-68	APPROVED BY	

REVISIONS

Date	Descriptions
3-26-68	Raised Footings by 2'-4" (Revised conc. piling quantities accordingly)

EXISTING BRIDGE PLANS FOR INFORMATION ONLY

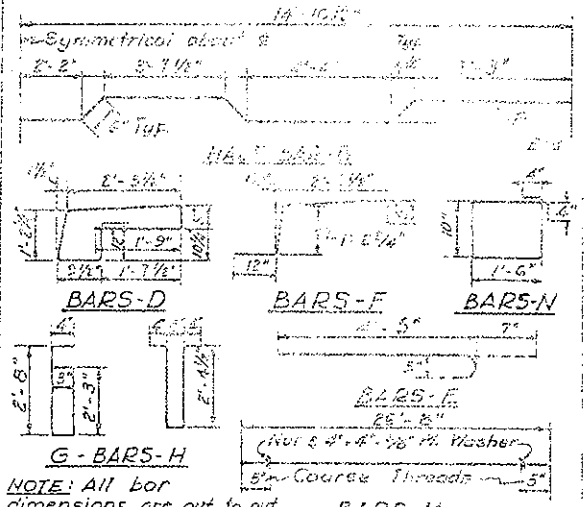
FPID 413817-1-52-01

DRAWING NO. BX3-6

BILL OF REINFORCING STEEL

MARK	SIZE	# REQS	LENGTH	BENDING
A	5	144	29'-9"	Straight
B	7	1	30'-7"	See diagram
C	4	200	29'-8"	Straight
D	5	17	7'-6"	See diagram
E	5	112	7'-0"	" "
F	5	103	4'-11"	" "
G	4	51	2'-0"	See diagram
H	4	3	2'-0"	See diagram
I	1	2	10'-8"	" "
J	1	2	10'-8"	" "
K	1	2	10'-8"	" "
L	1	2	10'-8"	" "
M	1	16	2'-0"	Straight
N	4	2	3'-4"	See diagram

BENDING DIAGRAMS



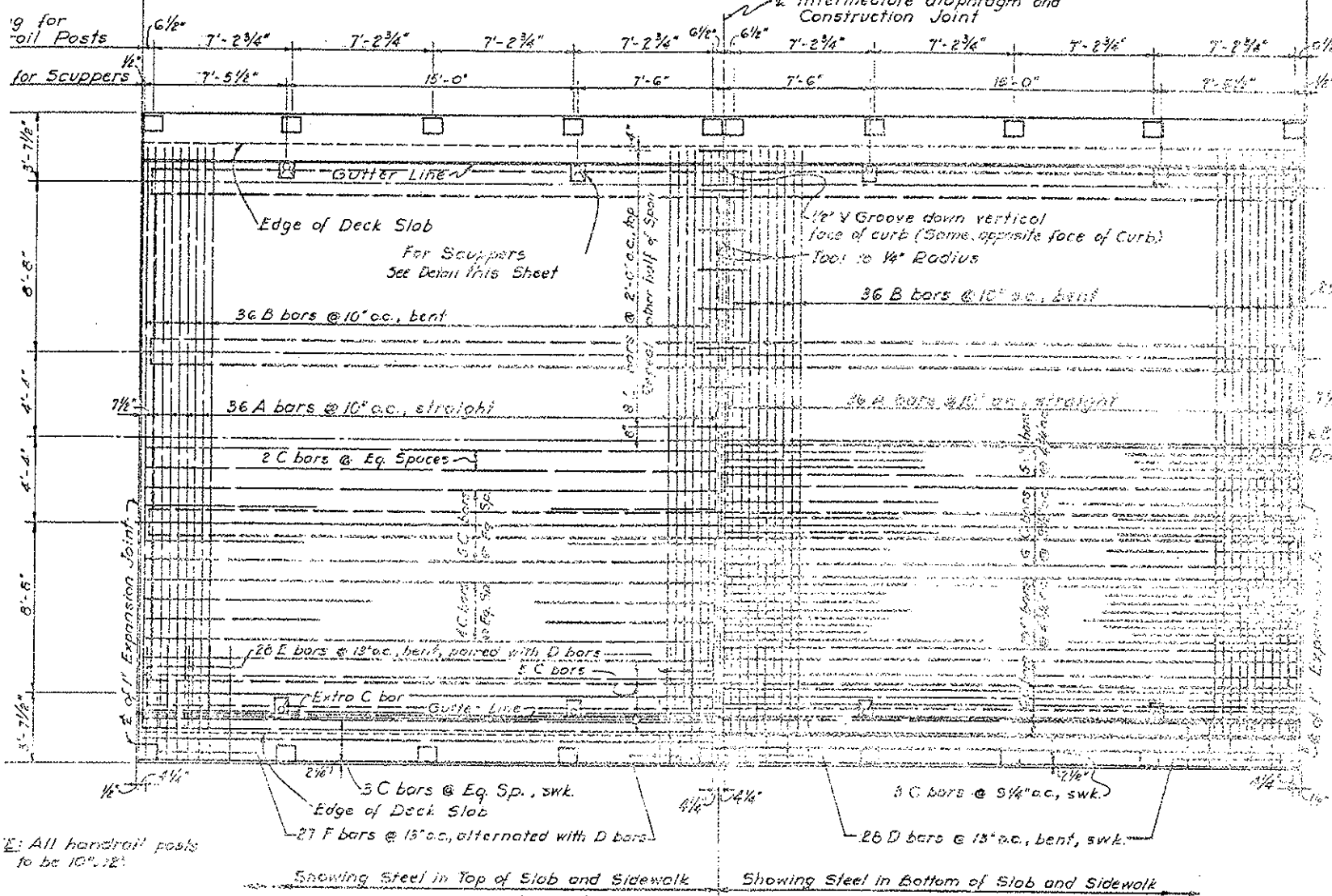
ESTIMATED QUANTITIES

ITEM	UNIT	QUANTITY PER SPAN			
		N#1	N#2	N#6	N#7
Class 2 Concrete	Cu. Yd.	52.1	52.0	50.7	52.1
Reinforcing Steel	Lb.	13,407	13,400	13,400	13,407
Prestressed Beams (Type III)	Lin. Ft.	237.0	237.0	237.0	237.0

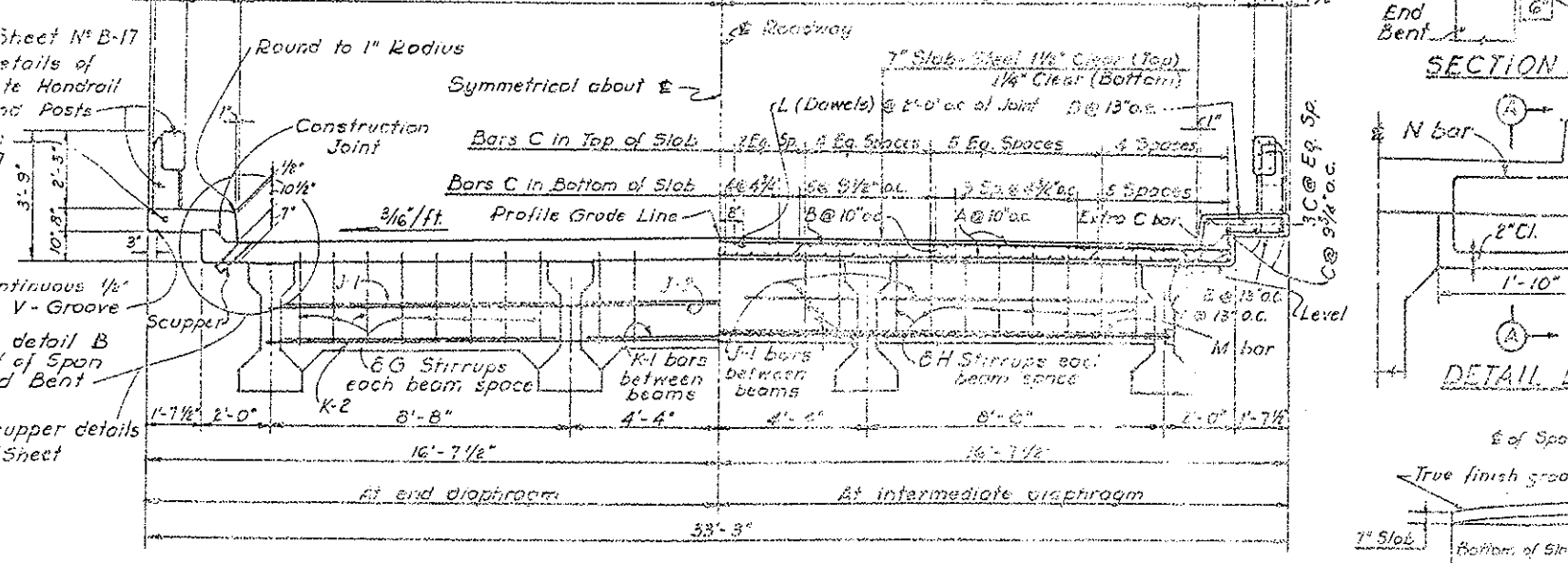
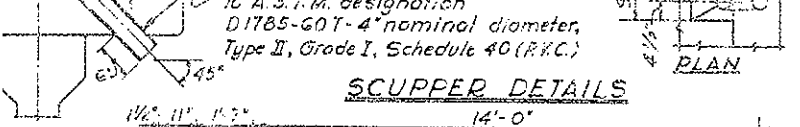
NOTES:
 1. Bar M shall be a 1" smooth round bar of structural or intermediate grade steel with coarse threads and heavy duty nuts.
 2. Slabs shall be screeded to grade with no allowance for permanent camber. The slabs shall be screeded longitudinally between bulkheads, unless otherwise directed by the Engineer.

SUPERSTRUCTURE SPANS 1, 2, 6 & 7

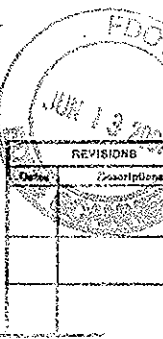
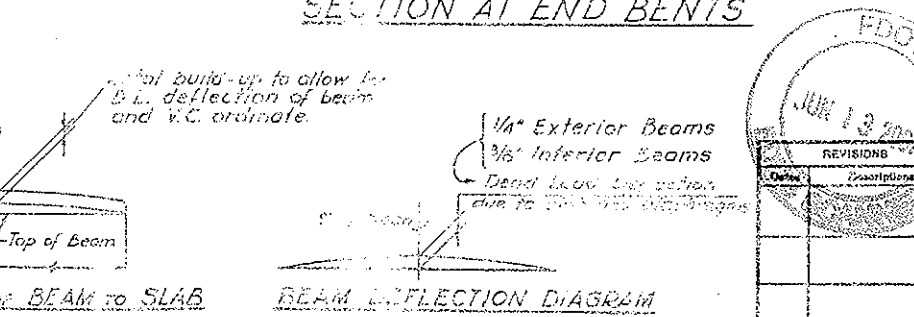
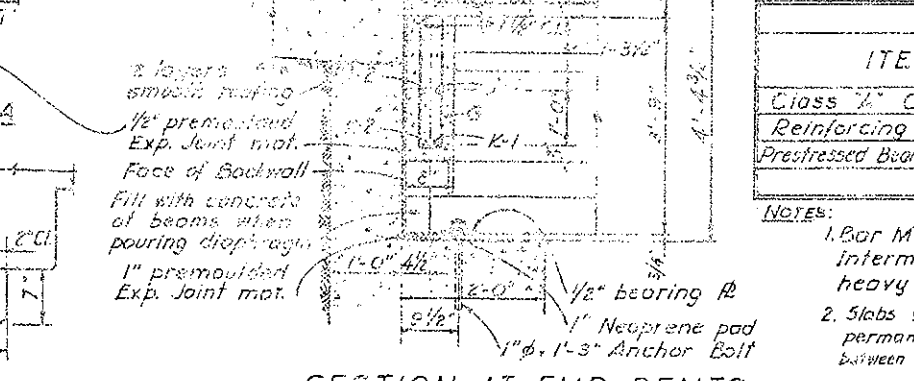
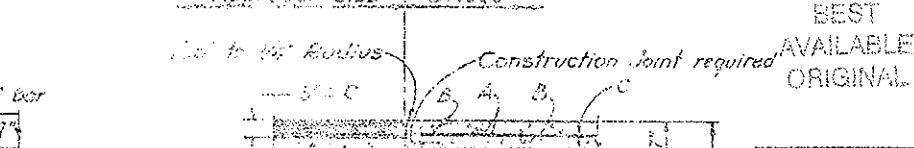
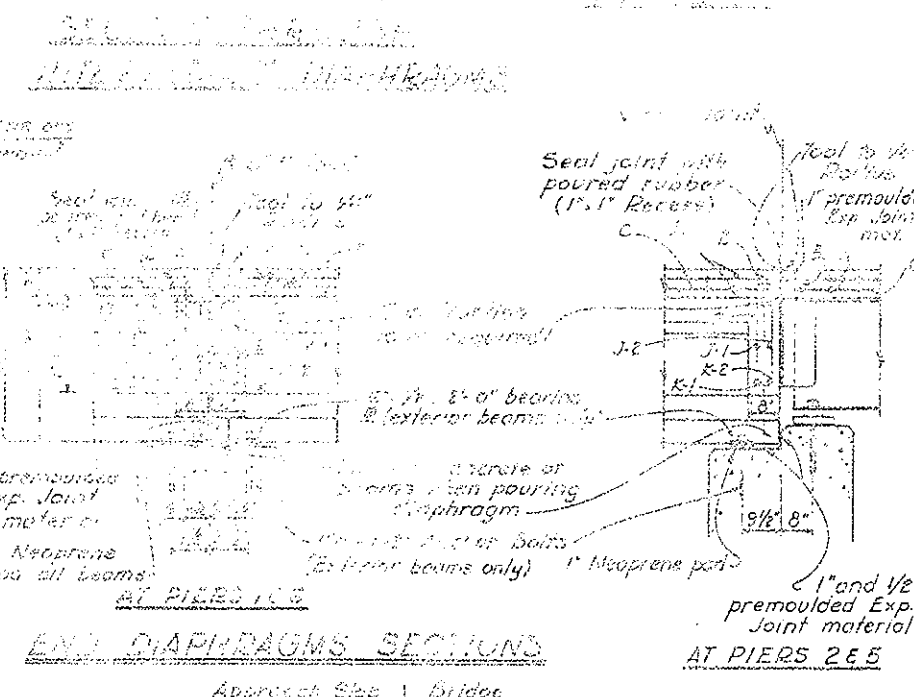
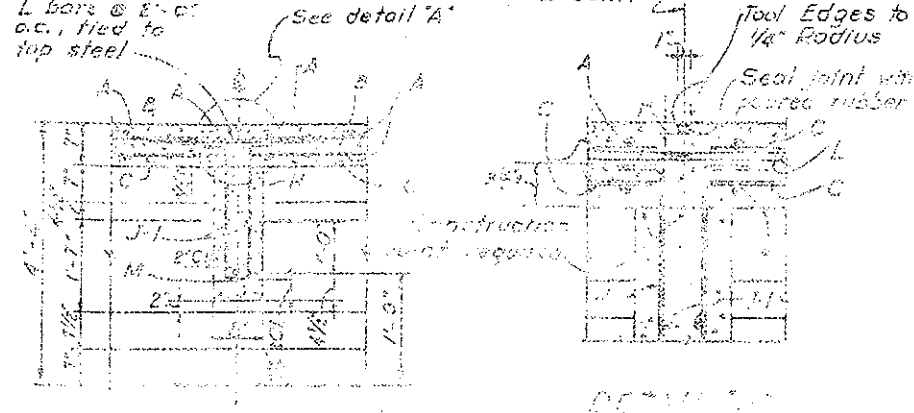
STATE ROAD DEPARTMENT OF FLORIDA BRIDGE DIVISION			
BRIDGE ON S.R. 70 OVER KISSIMMEE RIVER			
ROAD NO.	COUNTY	PROJECT NO.	
S.R. 70	OKEECHOBEE	91070-3502	
Drawn by	G.A.R.	10-64	APPROVED BY
Checked by	R.A.R.	11-64	
Quantity by	G.A.R.	11-64	Assistant State Highway Engineer
Checked by	R.A.R.	11-64	
Drawn by	G.A.R.	10-64	Drawing No. 9 of 23

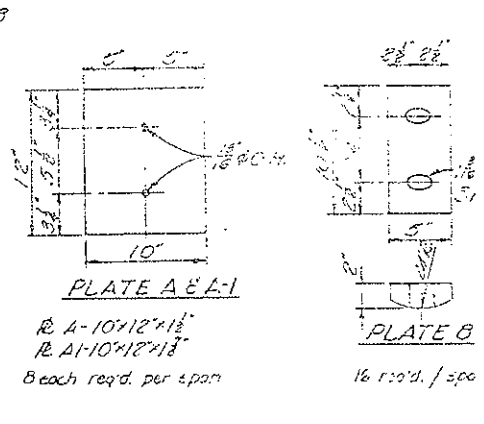
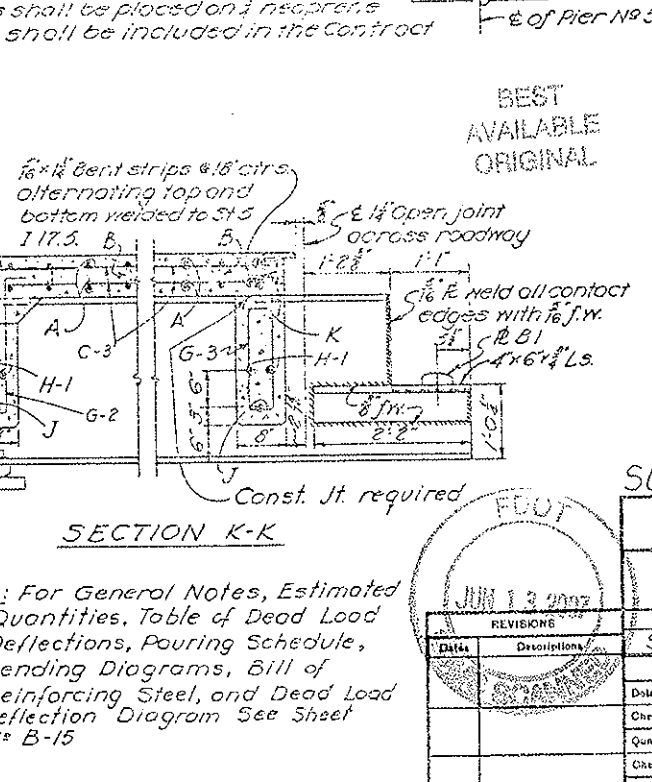
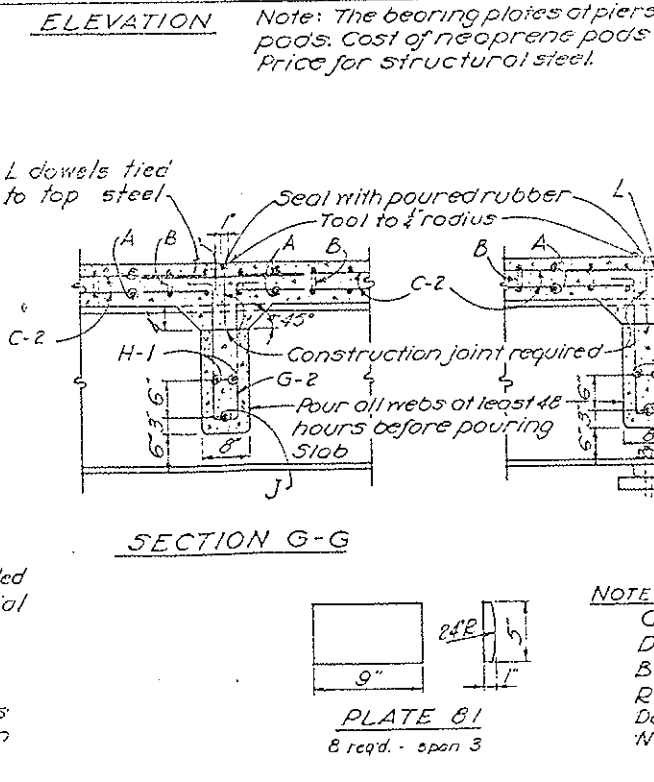
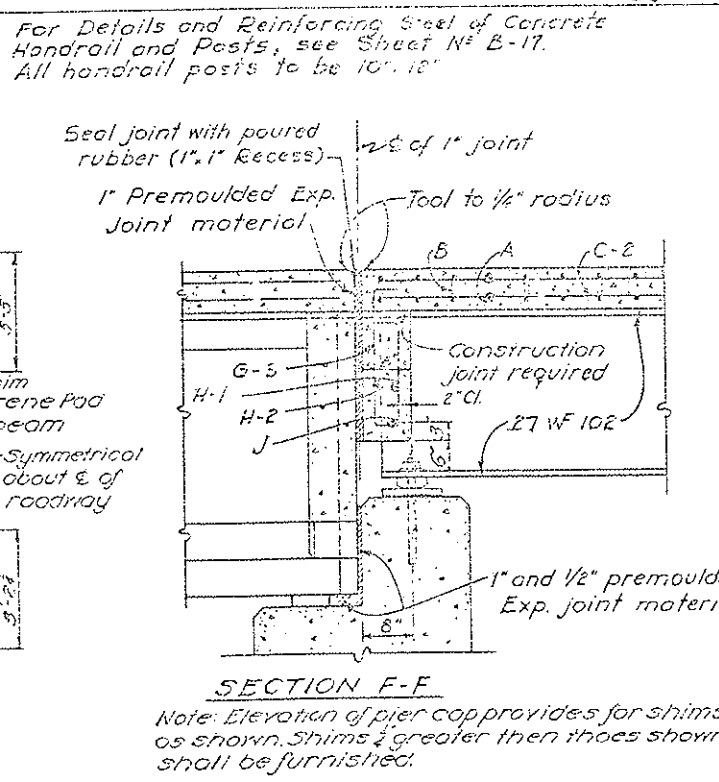
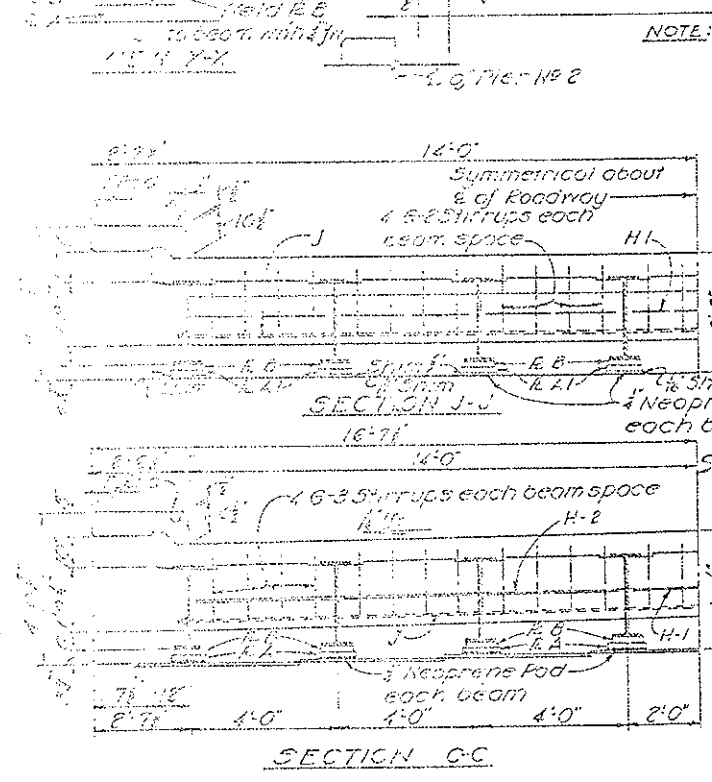
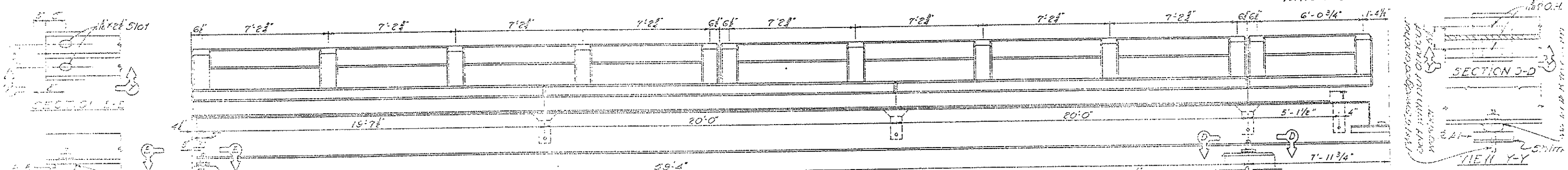
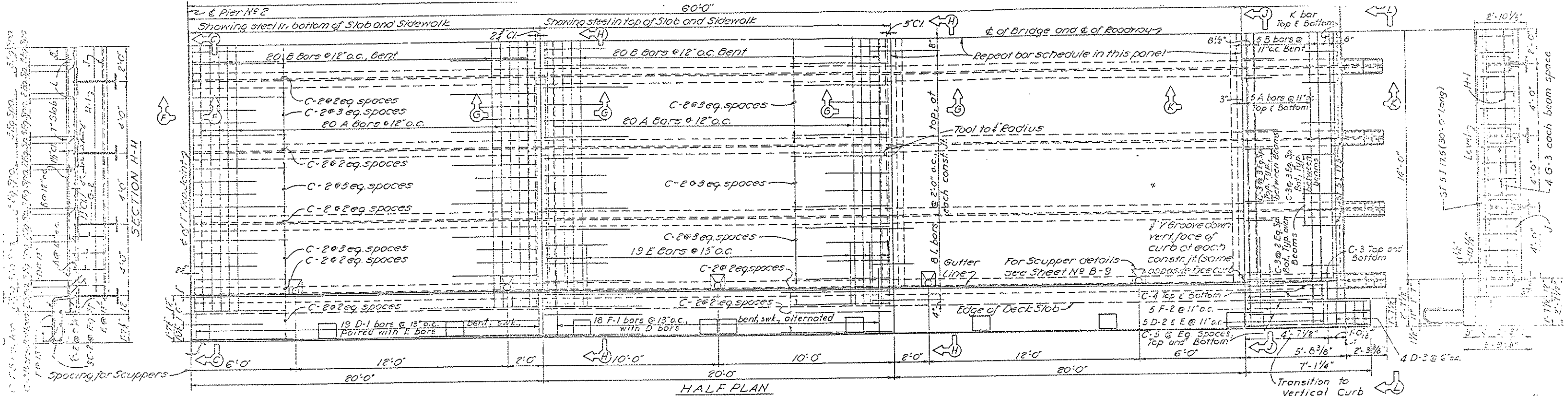


Showing Steel in Top of Slab and Sidewalk Showing Steel in Bottom of Slab and Sidewalk

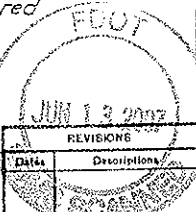


NOTE: Bend 'C' Bars of Scuppers





NOTE: For General Notes, Estimated Quantities, Table of Dead Load Deflections, Pouring Schedule, Bending Diagrams, Bill of Reinforcing Steel, and Dead Load Deflection Diagram See Sheet N° B-15



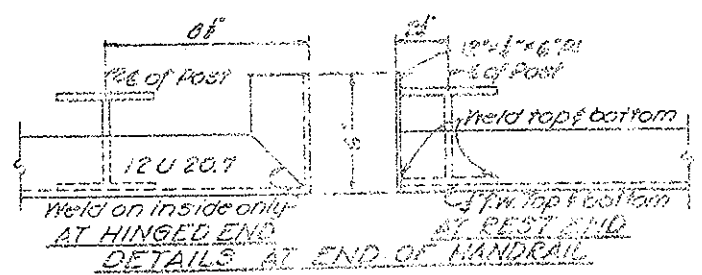
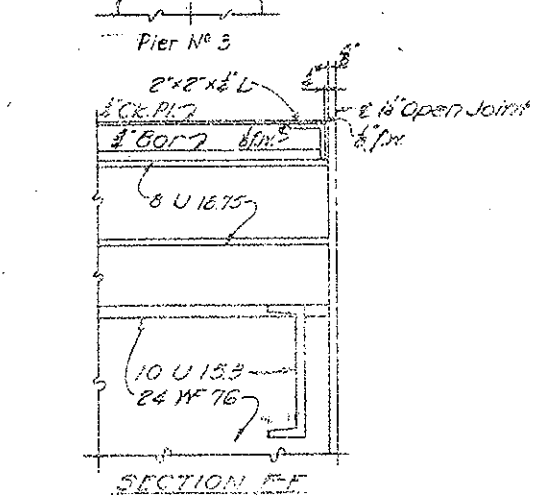
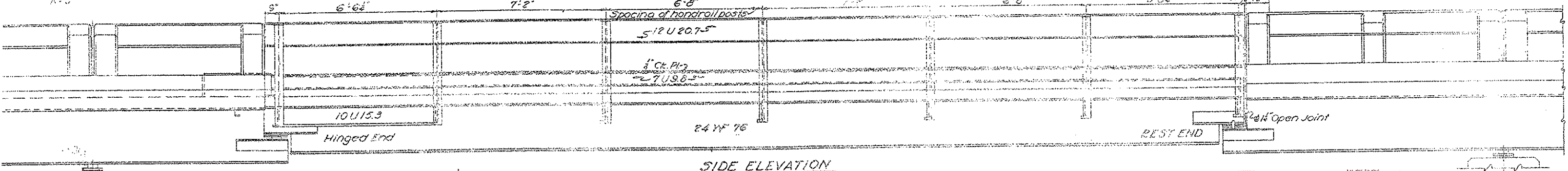
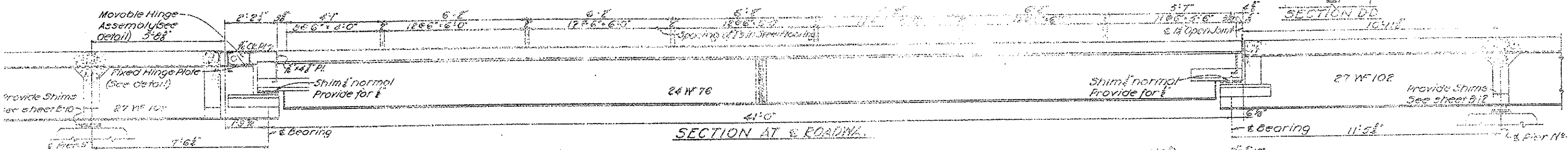
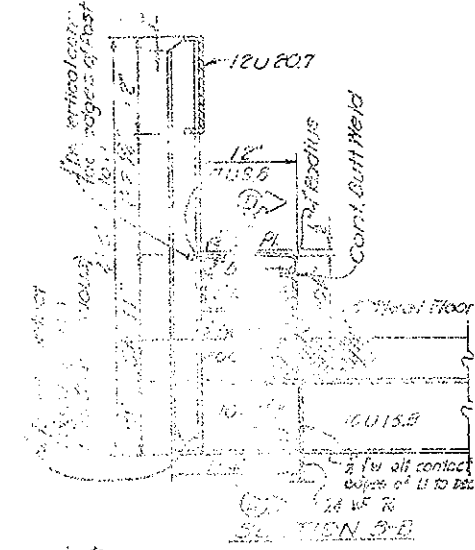
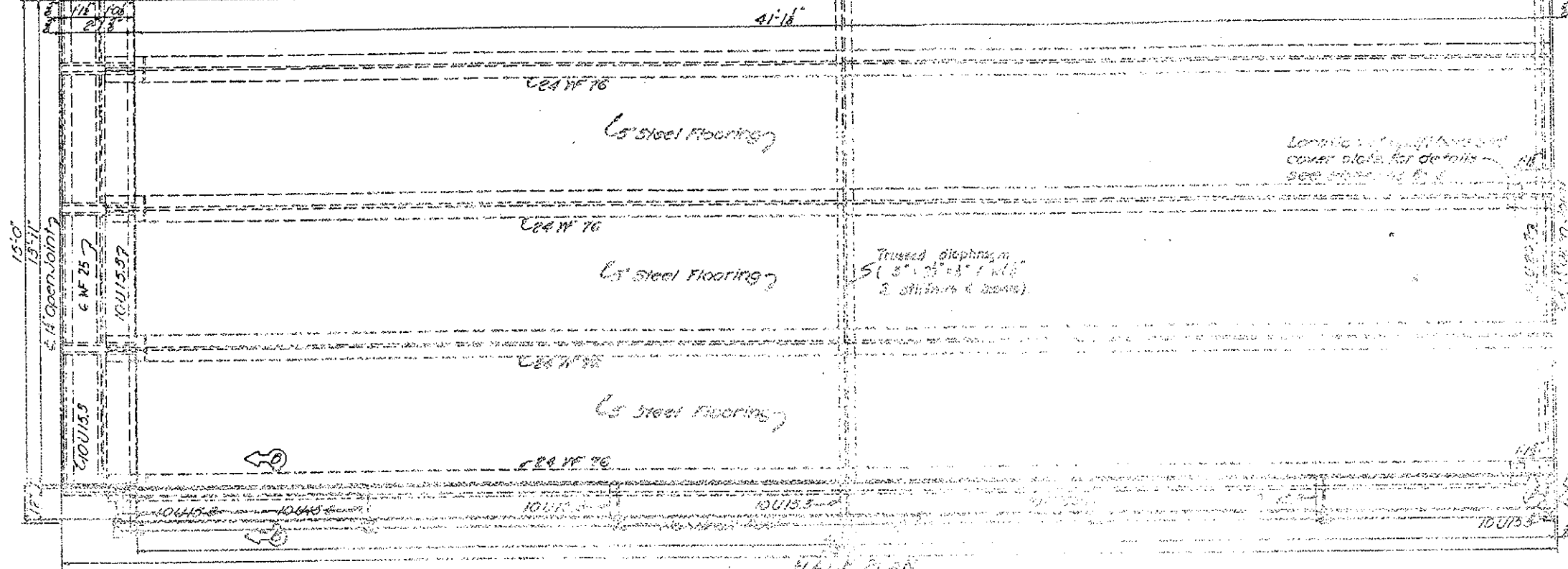
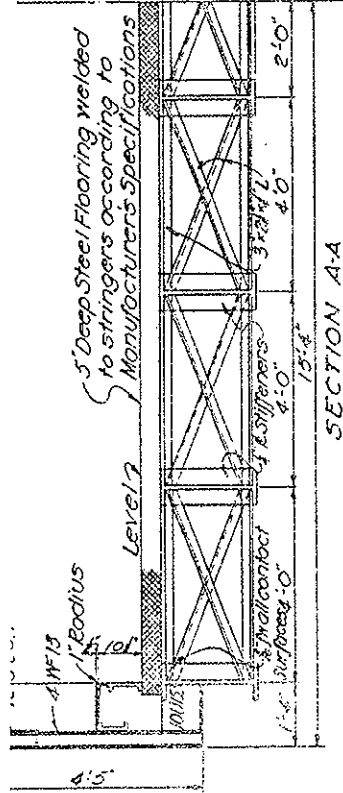
SUPERSTRUCTURE: SPAN 3

STATE ROAD DEPARTMENT OF FLORIDA
BRIDGE DIVISION
BRIDGE ON SEC. 70
OVER KISSIMMEE RIVER

REVISIONS	ROAD NO.	COUNTY	PROJECT NO.
1	S.R. 70	OKEECHOBEE	91070-350
2			
3			
4			
5			
6			
7			
8			
9			
10			

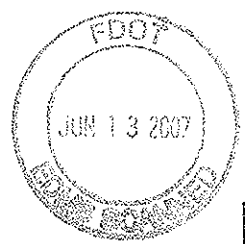
APPROVED BY	DATE
REP	1-65
REP	1-65
REP	1-65
G.A.R.	1-65

Drawing No. 10 of 23



ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
Struct. of Steel (Movable Span)	Lump Sum	*
3' Deep Steel Flooring	Sq. Ft.	1171

* See Estimated Bridge Quantities Approximately 39,968 lbs Carbon Steel.

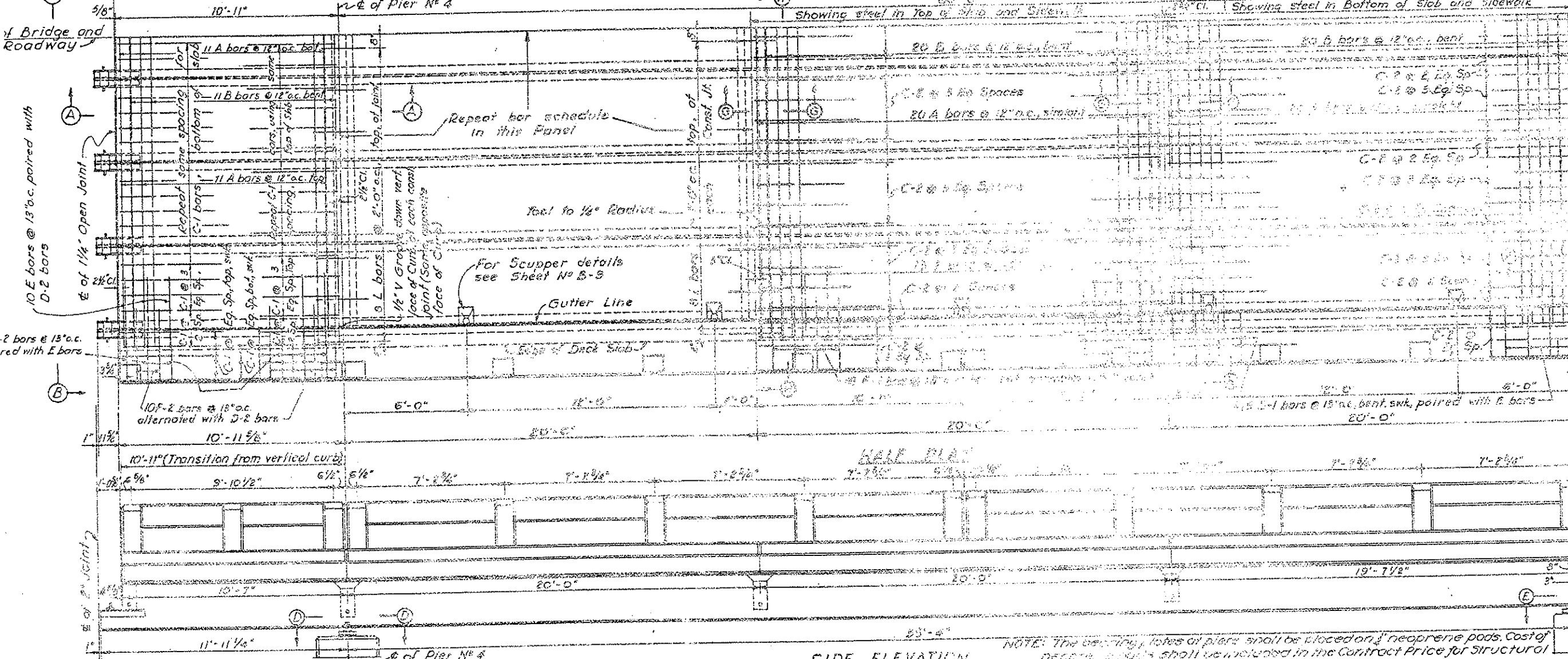


BEST AVAILABLE ORIGINAL

SUPERSTRUCTURE: SPAN 4
 STATE ROAD DEPARTMENT OF FLORIDA
 BRIDGE DIVISION
 BRIDGE ON S.R. 70
 OVER KISSIMMEE RIVER

REVISION	ROAD NO.	COUNTY	PROJECT NO.
Date	Description	Names	Date
	S.R. 70	OKEECHOBEE	91070-3502
Detailed by		REP	11-64
Checked by		R.A.R.	11-64
Quantities by		R.A.R.	1-65
Drawn by		B.H.M.	1-65
Traced by		REP	11-64

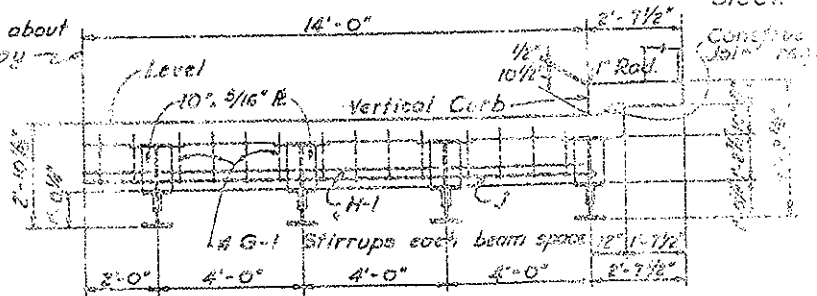
70'-11 5/8" (Transition from 0" Crown to 1/8" Crown per foot within these limits) (Roadway Crown shall be removed by depressing...)



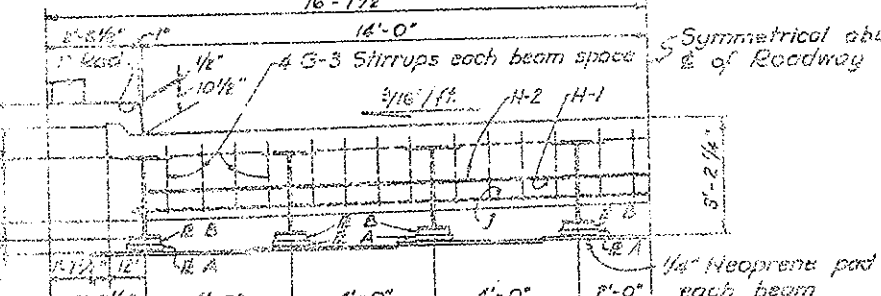
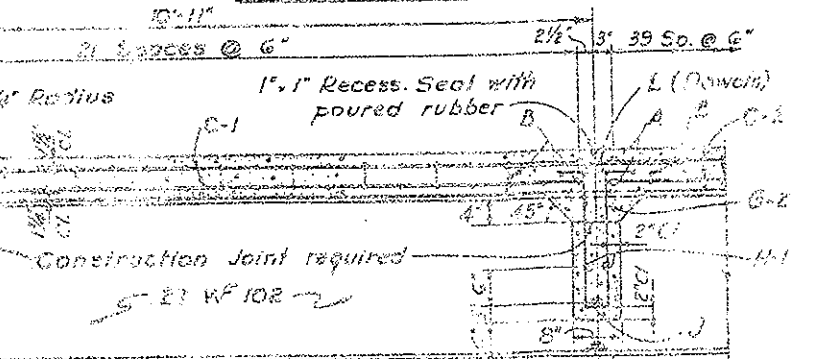
NOTE: All handrail posts to be 10".
For Details and Reinforcing Steel of Concrete Handrail on Posts, See Sheet No B-17

NOTE: The bearing plates of piers shall be placed on neoprene pads. Cost of neoprene pads shall be included in the Contract Price for Structural Steel.

SIDE ELEVATION



ELEVATION B-B



END ELEVATION C-C



NOTES:
1. For General Notes, Estimated Quantities, Table of Dead Load Deflections, Pouring Schedule, Bending Diagrams, Bill of Reinforcing Steel, and Dead Load Deflection Diagram See Sheet No B-15
2. All diaphragms must be poured at least 48 hours before pouring slab.
3. For location of conduit in North curb see Sheets B-1 and B-9.

SECTION AT PIER No 4
Elevation of pier cap provides for Shims as shown. Shims greater than those shown shall be furnished.

NOTE: For Details of Bearing Plates A, A1 and B see Sheet No B-10
16 Plates B required
B " L "
B " A1 "

NOTE: For Details of Plates B1 and B2 see Sheet No B-10 and B-15
For Sections D-D, E-E, F-F and G-G, See Sheet No B-10

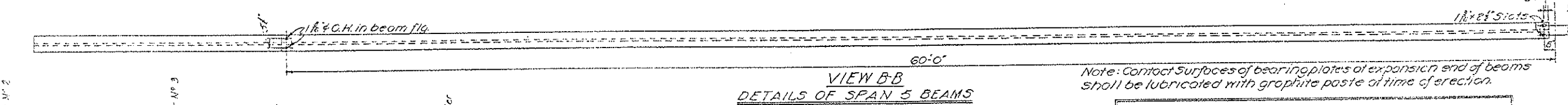
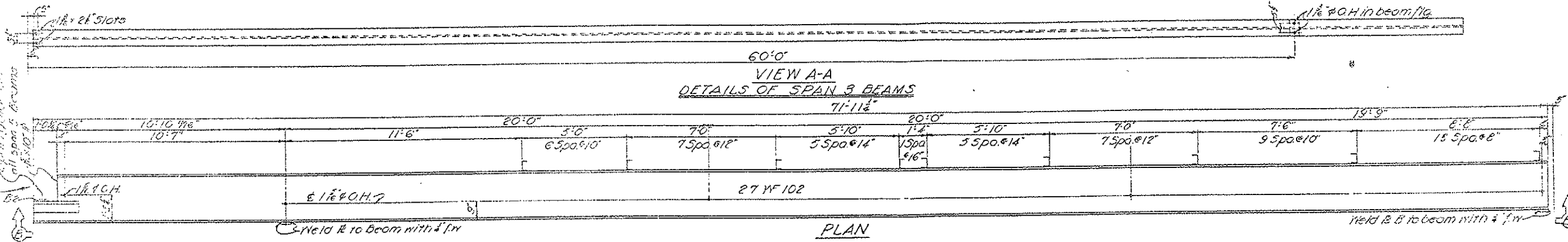
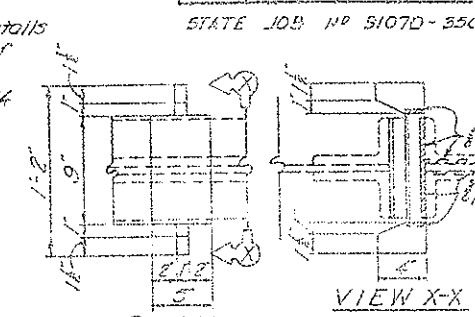
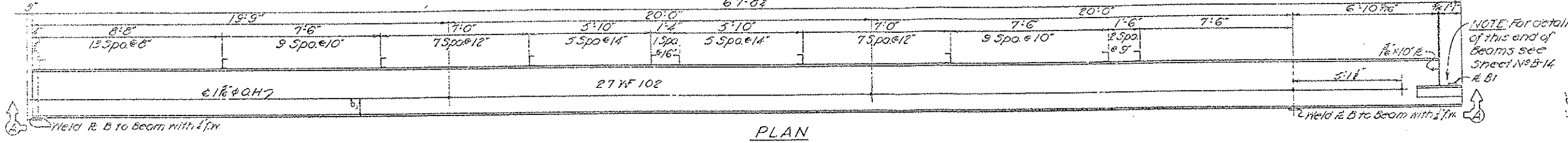
SUPERSTRUCTURE: SPAN 5

STATE ROAD DEPARTMENT OF FLORIDA
BRIDGE DIVISION

BRIDGE ON S.R. 70
OVER KISSIMMEE RIVER

REVISION	ROAD NO.	COUNTY	PROJECT NO.
	S.R. 70	OKEECHOBEE	91070-3502
Checked by	G.A.R. 11-64		
Checked by	R.A.P. 7-65		
Checked by	G.A.R. 11-64		

EXISTING BRIDGE PLANS-FOR INFORMATION ONLY
FPID 413817-1-52-01
DRAWING NO. BX3-10



Note: Contact surfaces of bearing plates at expansion end of beams shall be lubricated with graphite paste at time of erection.

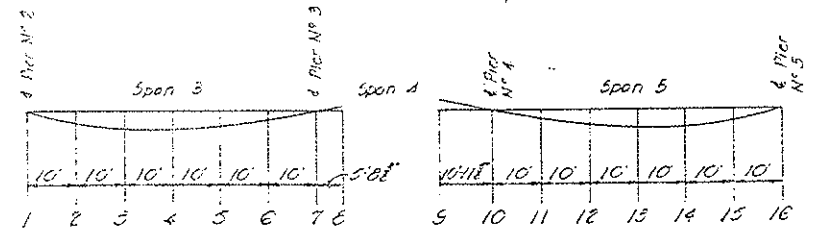
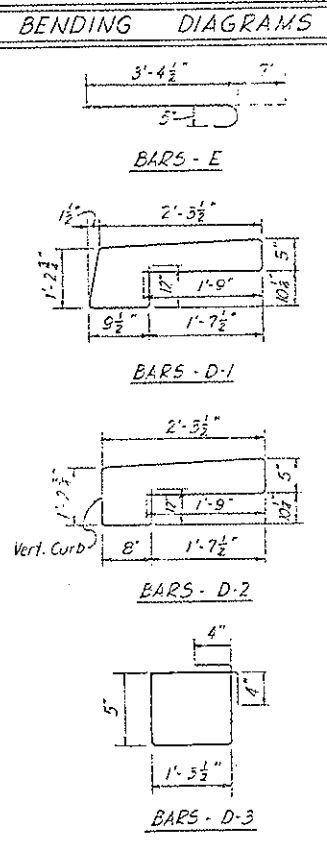
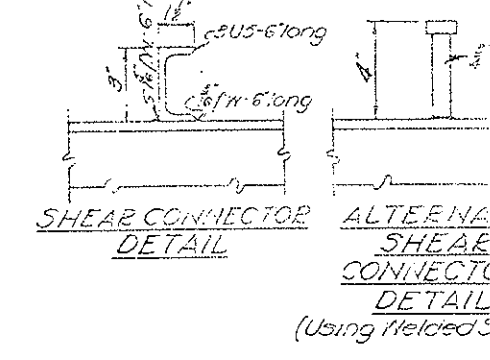


TABLE OF DEAD LOAD DEFLECTIONS					
Point	Beam	Deflection Due To			Total Deflection
		Slab	Span 4	Curb & Rail	
1	Int.	0	0	0	0
1	Ext.	0	0	0	0
2	Int.	-1/8"	+1/8"	-1/8"	-1/8"
2	Ext.	-1/8"	+1/8"	-1/8"	-1/8"
3	Int.	-1/8"	+1/8"	-1/8"	-1/8"
3	Ext.	-1/8"	+1/8"	-1/8"	-1/8"
4	Int.	-1/8"	+1/8"	-1/8"	-1/8"
4	Ext.	-1/8"	+1/8"	-1/8"	-1/8"
5	Int.	-1/8"	+1/8"	-1/8"	-1/8"
5	Ext.	-1/8"	+1/8"	-1/8"	-1/8"
6	Int.	-1/8"	+1/8"	-1/8"	-1/8"
6	Ext.	-1/8"	+1/8"	-1/8"	-1/8"
7	Int.	0	0	0	0
7	Ext.	0	0	0	0
8	Int.	+1/8"	-1/8"	+1/8"	+1/8"
8	Ext.	+1/8"	-1/8"	+1/8"	+1/8"
9	Int.	+1/8"	-1/8"	+1/8"	+1/8"
9	Ext.	+1/8"	-1/8"	+1/8"	+1/8"
10	Int.	0	0	0	0
10	Ext.	0	0	0	0
11	Int.	-1/8"	+1/8"	-1/8"	-1/8"
11	Ext.	-1/8"	+1/8"	-1/8"	-1/8"
12	Int.	-1/8"	+1/8"	-1/8"	-1/8"
12	Ext.	-1/8"	+1/8"	-1/8"	-1/8"
13	Int.	-1/8"	+1/8"	-1/8"	-1/8"
13	Ext.	-1/8"	+1/8"	-1/8"	-1/8"
14	Int.	-1/8"	+1/8"	-1/8"	-1/8"
14	Ext.	-1/8"	+1/8"	-1/8"	-1/8"
15	Int.	-1/8"	+1/8"	-1/8"	-1/8"
15	Ext.	-1/8"	+1/8"	-1/8"	-1/8"
16	Int.	0	0	0	0
16	Ext.	0	0	0	0



BILL OF REINFORCING STEEL					
MARK	SIZE	NO. REQ'D	LENGTH	BENDING	
		SPAN 3	SPAN 5		
A	4	130	142	25'-9"	Straight
B	4	65	71	31'-9"	See diagram
C-1	4	-	82	10'-7"	Straight
C-2	4	246	246	19'-7"	Straight
C-3	4	66	-	3'-3"	Straight
C-4	4	8	-	4'-4"	Straight
C-5	6	12	-	6'-9"	Straight
D-1	5	114	114	7'-6"	See diagram
D-2	5	10	20	7'-4"	See diagram
D-3	5	8	-	4'-1"	See diagram
E	5	124	134	4'-0"	See diagram
F-1	5	108	108	4'-11"	See diagram
F-2	5	10	20	4'-11"	See diagram
G-1	4	-	26	3'-5"	See diagram
G-2	4	84	84	4'-8"	See diagram
G-3	4	56	28	4'-8"	See diagram
H-1	4	63	63	3'-8"	Straight
H-2	4	1	1	27'-8"	Straight
J	1" φ	5	5	28'-5"	Straight
L	6	48	48	2'-6"	Straight
K	5	2	-	27'-8"	Straight



NOTE: 1/2" flux filled stud, automatically or welded, may be substituted for each 2" of channel. Each stud will be paid for 2" of channel.

ESTIMATED QUANTITIES		
ITEM	UNIT	QUAN.
Class "A" Concrete	Cu. Yd.	59.3
Reinforcing Steel	Lb.	10,897
Structural Steel (Carbon)	L.S.	*
Shear Connectors	Lb.	1180

* Includes approximately 58,430 lbs. of Carbon
** Includes approximately 60,900 lbs. of Carbon

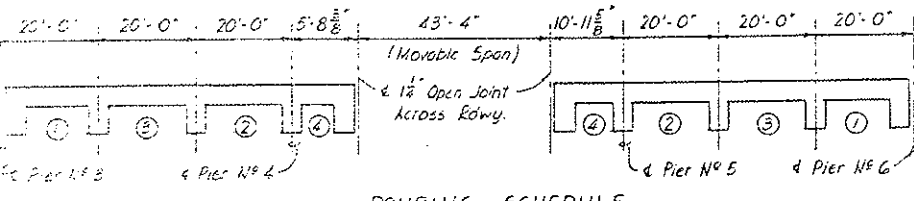
DETAILS OF SPANS ADJAC TO MOVABLE SPAN (SPAN 3)
STATE ROAD DEPARTMENT OF FLORIDA
BRIDGE DIVISION
BRIDGE ON S.R. 70
OVER KISSIMMEE RIVER

REVISIONS		ROAD NO.	COUNTY	PROJECT NO.
Date	Description	S.R. 70	OKEECHOBEE	5107D-55C
		Drawn by	R.E.P.	12-64
		Checked by	R.A.R.	12-64
		Quantities by	R.A.R.	1-65

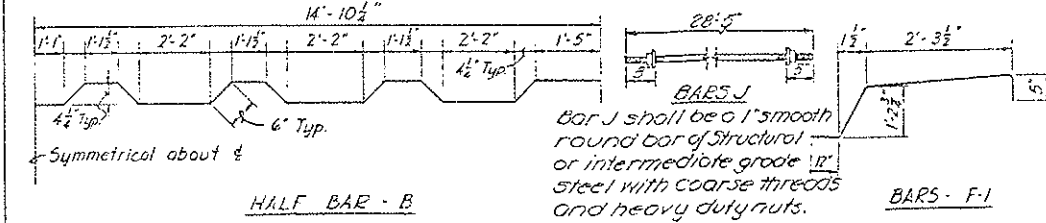
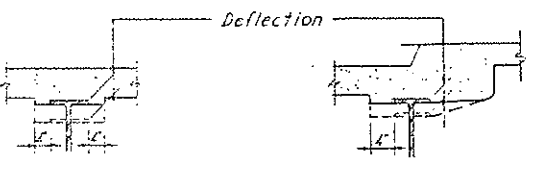
EXISTING BRIDGE PLANS-FOR INFORMATION ONLY
FPID 413817-1-52-01
DRAWING NO. BX3-12

Deflections due to Suspended Span are calculated on the basis that the Suspended Span will be erected before concrete is poured on Spans adjacent to the Suspended Span. If concrete on adjacent spans is poured before the Suspended Span is erected, deflections are to be adjusted.

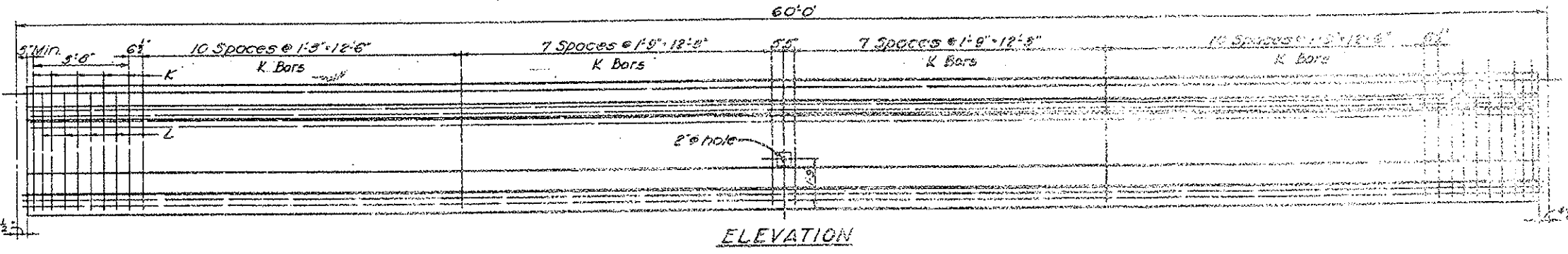
Note: In 'Table of Dead Load Deflections', minus deflections are down, and plus deflections are up



Note: Slab shall be screeded longitudinally between bulkheads using a vibratory screed.



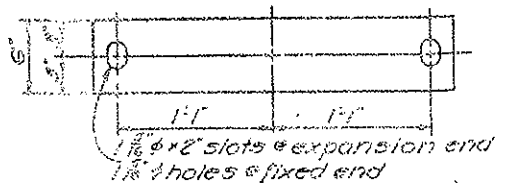
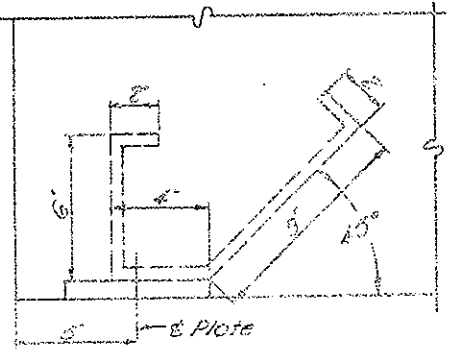
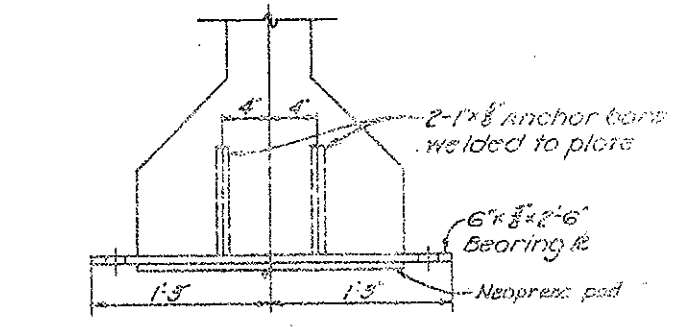
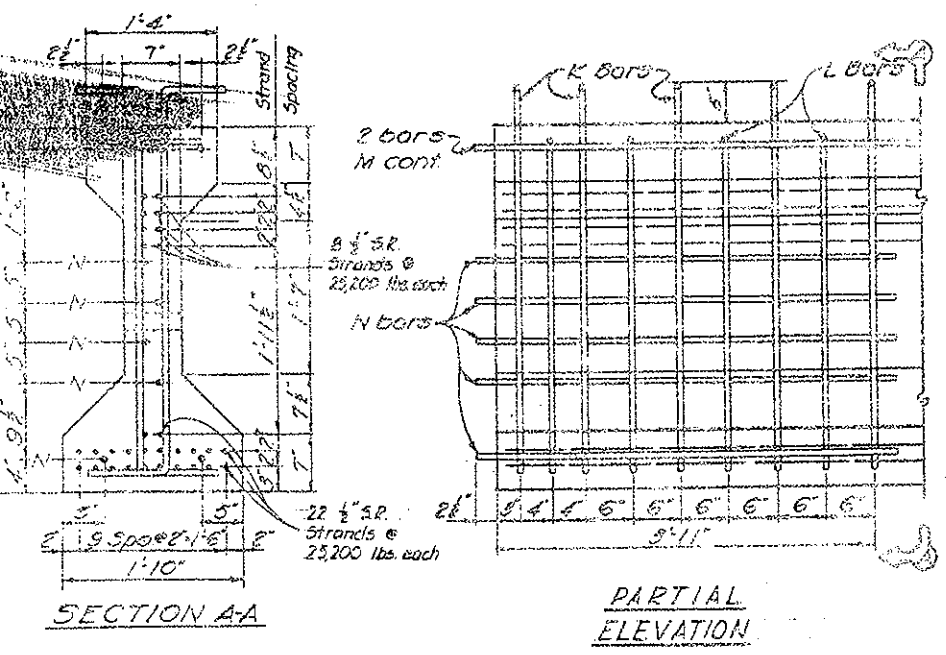
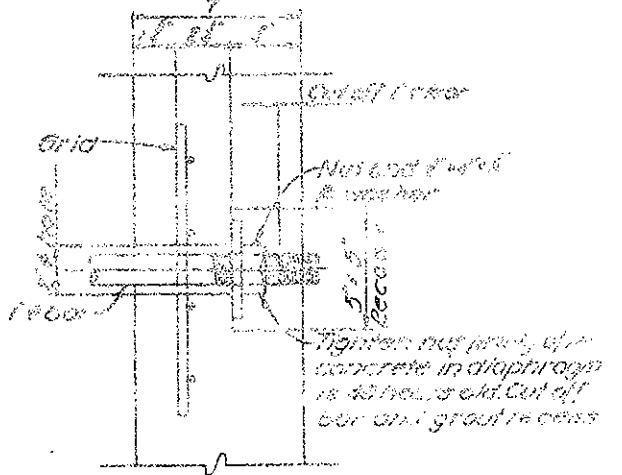
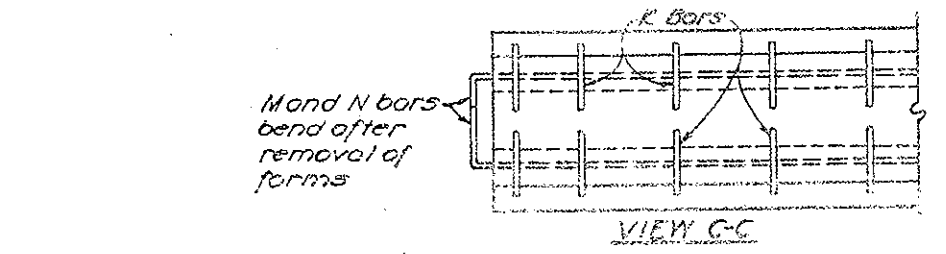
BEST AVAILABLE ORIGINAL



LIST OF REINFORCING STEEL

MARK	SIZE	NO. REQD.	LENG.
K	#4	92	5'-5"
L	#4	16	4'-11"
M	#4	2	61'-8"
N	#4	12	5'-0"
SR	22,200	12	5'-0"

SEE DETAIL DIAGRAMS



TYPICAL BEARING PLATE DETAILS
EXTERIOR BEAMS ONLY

FINISH: Tops of beams to be rough finished and approximately the time of initial set, entire top of beam shall be scrubbed transversely with coarse wire brush to remove all laitance and to produce a rougher surface for bonding slab.

CONCRETE: Concrete for beams shall be Class F.

CYLINDER STRENGTH: At transfer of the tensioning load, the cylinder strength of concrete shall be 4,000 p.s.i.

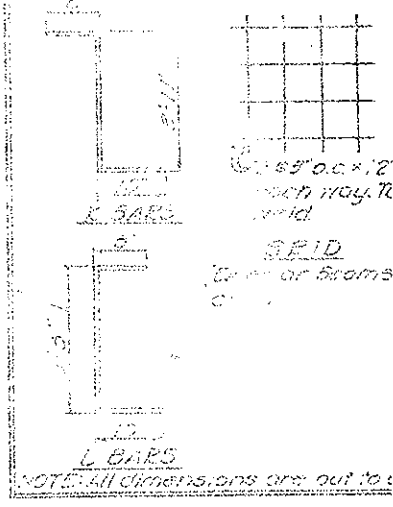
BEAM EXTENSION: All strands shall extend 8' beyond ends of beam.

HANDLING: In the handling of beams, they must be maintained in an upright position at all times and must be picked up from points located a maximum distance of 3ft from the ends of the beam.

BEAM CHAMFER: The bottom edge of the bottom flange across the ends of the beams shall have a 3/4" chamfer. The chamfers are to be formed by the use of softwood chamfer strips.

GRUING COMPOUND: The use of membrane compound will not be permitted on the tops of prestressed beams.

ANCHOR BOLTS: Bearing Plates, Anchor Bolts, Nuts and Washers shall be hot dip galvanized in accordance with requirements of A.S.T.M. Specification Designation A-183. The cost of Bearing Plates, Neoprene Pads, and Premauled Expansion Material shall be included in the Contract Unit Price for Prestressed Beams Steel Anchor Bolts shall be in accordance with A.S.T.M. Specification A-307.



BEST AVAILABLE ORIGINAL

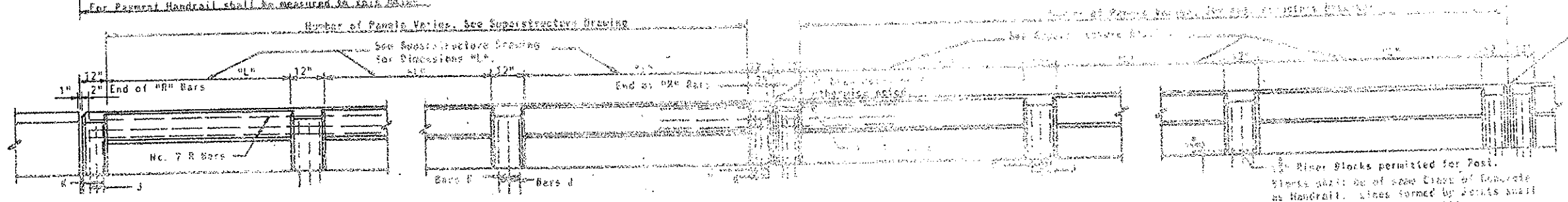
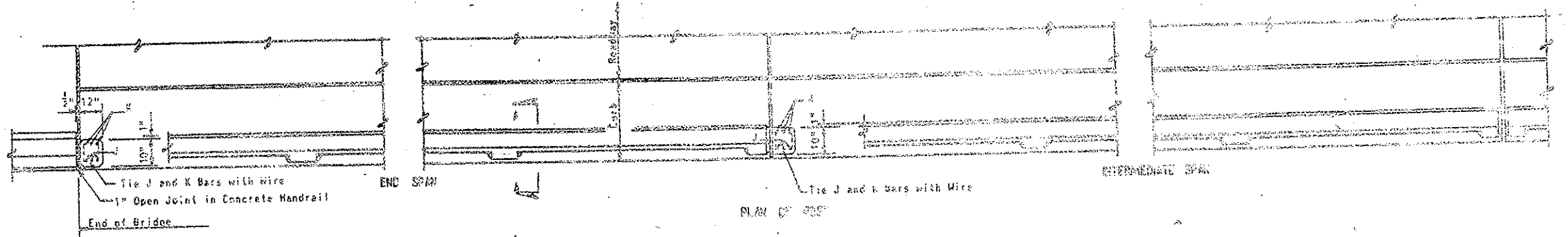


PRESTRESSED BEAMS
(TYPE III-30-0) 60' SPAN

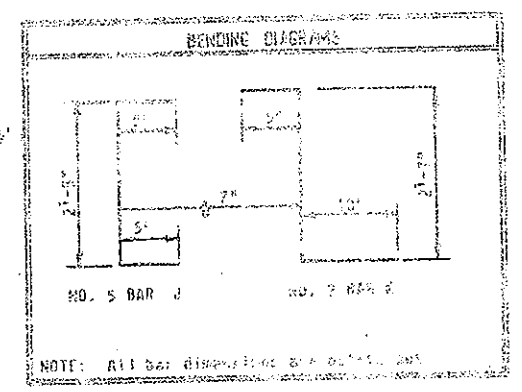
STATE ROAD DEPARTMENT OF FLORIDA
BRIDGE DIVISION
BRIDGE ON S.R. 70
OVER KISSIMMEE RIVER

REVISIONS	ROAD NO.	COUNTY	PROJECT NO.
1	S.R. 70	OKEECHOBEE	91070-350
2			
3			
4			
5			

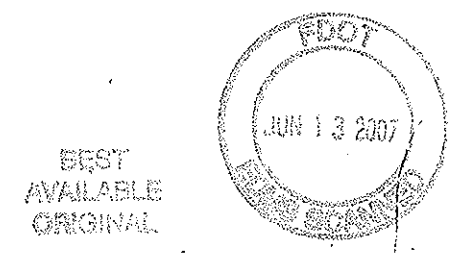
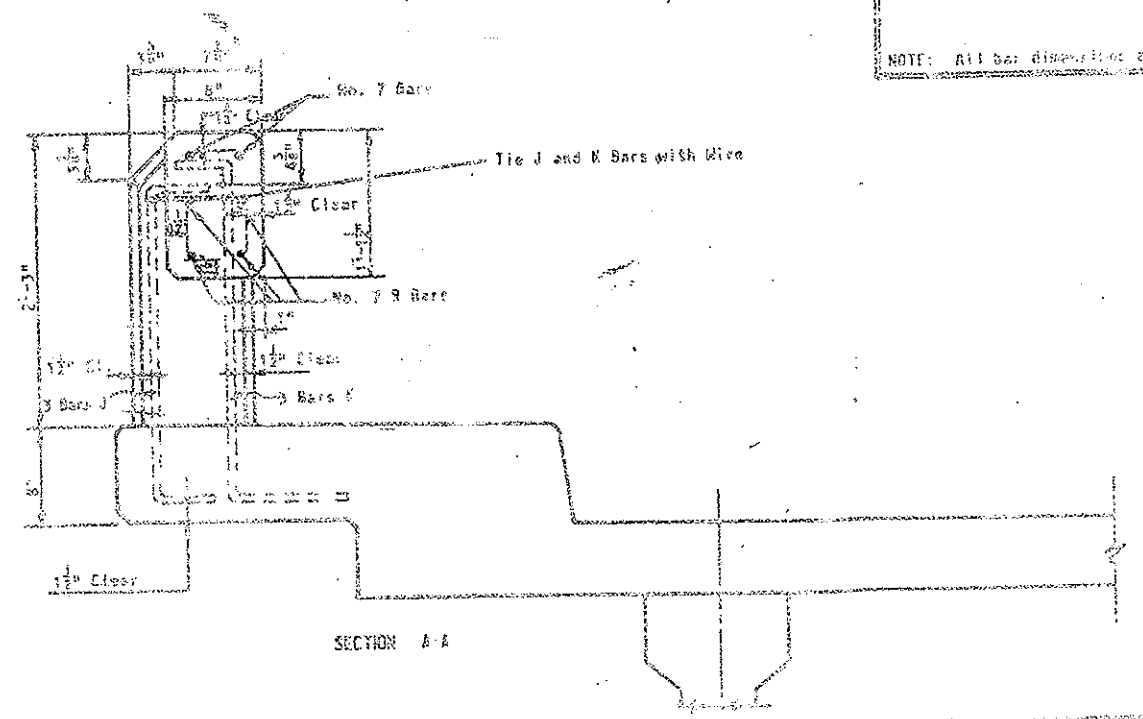
Detailed by: R.E.P. 11-64
Checked by: R.A.B. 11-64



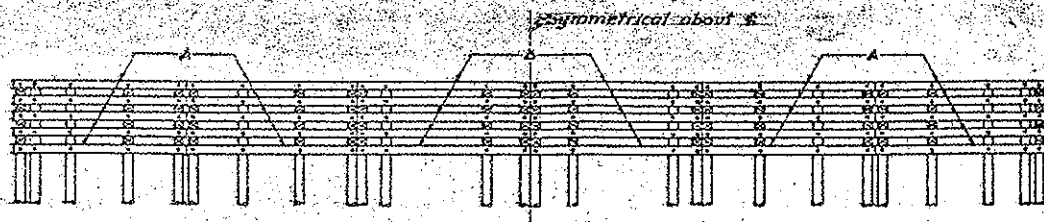
NOTE: Concrete End Post shall be paid for at the Contract Unit Price for Class A Concrete and Reinforcing Steel. For Details of End Post see Details of End Bents.



GENERAL NOTES
 CONCRETE: Class A Concrete shall be used in Handrail.
 PAYMENT: Handrail shall be paid for per linear foot, which shall include all Concrete and Reinforcing Steel. Handrail shall be measured along the center line of Rail with no deduction for Open Joints.
 CHAMFER: 1/4" Chamfer all edges of Handrails and Posts.
 MARKERS: Markers recording the Elevation shall be placed on top of the Curbs at End Bents. On Bridges longer than 100 Feet, one marker shall be placed at each end of the Bridge. On Bridges less than 100 feet long, one marker shall be placed at one end of the bridge only. Markers are to be furnished by the State Road Dept. and installed by Contractor. The cost of installing the Markers shall be included in the Contract Unit Price for Concrete Handrail.
 PANEL LENGTHS: Dimension "L" shall not exceed 71'-0".
 CYLINDER STRENGTH: The Cylinder Strength of the Concrete shall be 3,750 p.s.i. minimum, at twenty eight days.



STATE ROAD DEPARTMENT OF FLORIDA BRIDGE DIVISION			
CONCRETE HANDRAIL			
REVISIONS	ROAD NO.	COUNTY	PROJECT NO.
Date	Description		
	SR 70	OKEECHOBEE	91070-3502
Drawn by	R.M.H.	6-64	
Checked by	A.F.R.	7-64	
Quantity by			



ELEVATION A-A

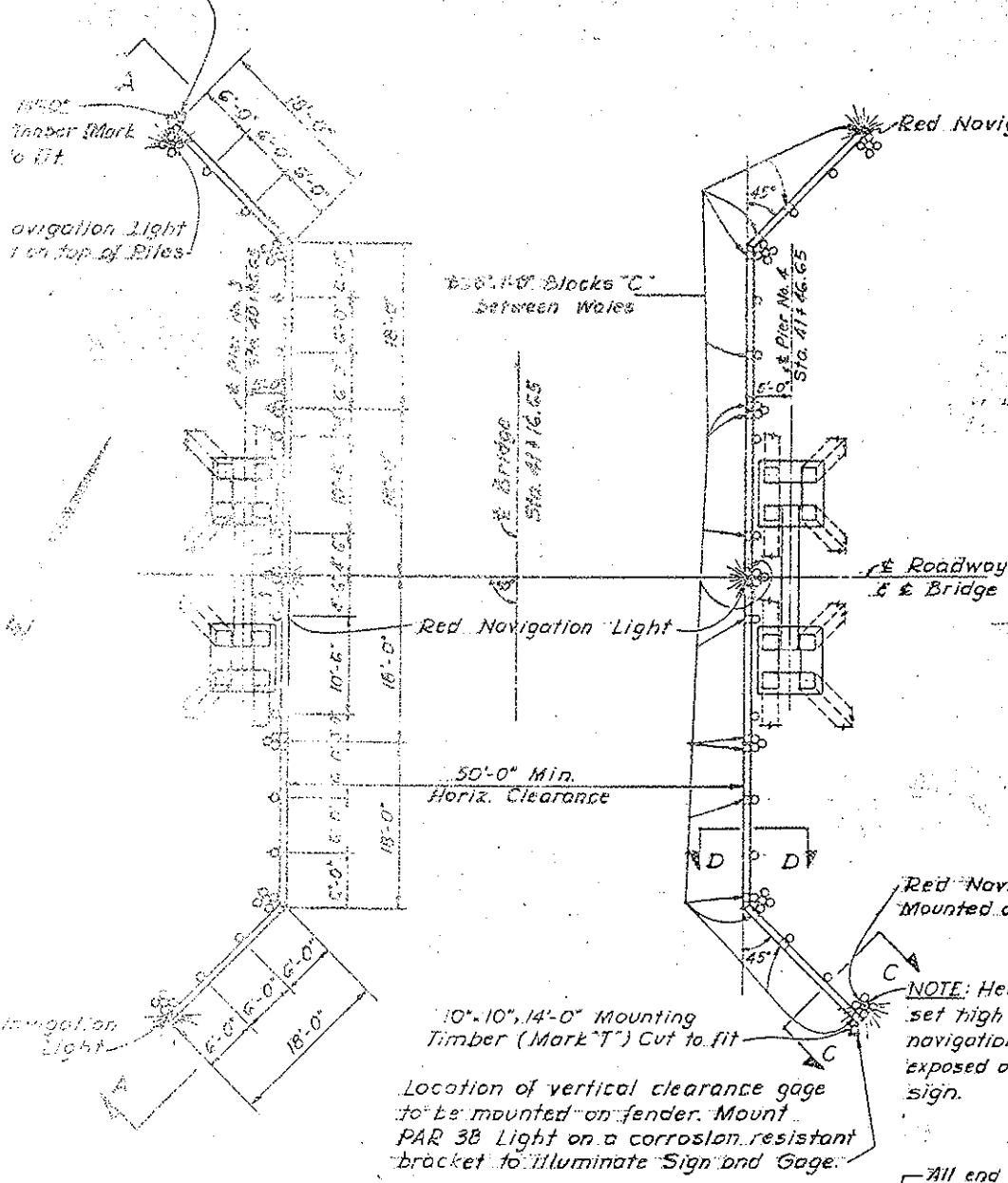
BILL OF TREATED STRUCTURAL TIMBER FOR TWO FENDERS

MARK	SIZE	LENGTH	No. REQD.	F.B.M.	CUTTING DIAGRAMS
A	10" x 10"	18'-0"	40	6000	22' 30" 18'-0"
B	10" x 10"	18'-0"	20	3000	18'-0"
C	8" x 8"	1'-0"	144	768	1'-0"
D	3" x 8"	18'-0"	12	432	18'-0"
E	2" x 6"	2'-6"	372	930	2'-6"
T	10" x 10"	14'-0"	2	233	Cut to fit
TOTAL				11,363	

ESTIMATED QUANTITIES

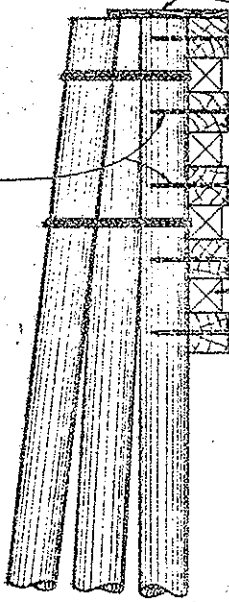
ITEM	UNIT	QUANTITY
Treated Structural Timber (12 lb. Treatment)	M.F.B.M.	11,363
Treated Timber Piling	Lin. Ft.	4100

Location of vertical clearance gage (Same as shown SEE CENTER)

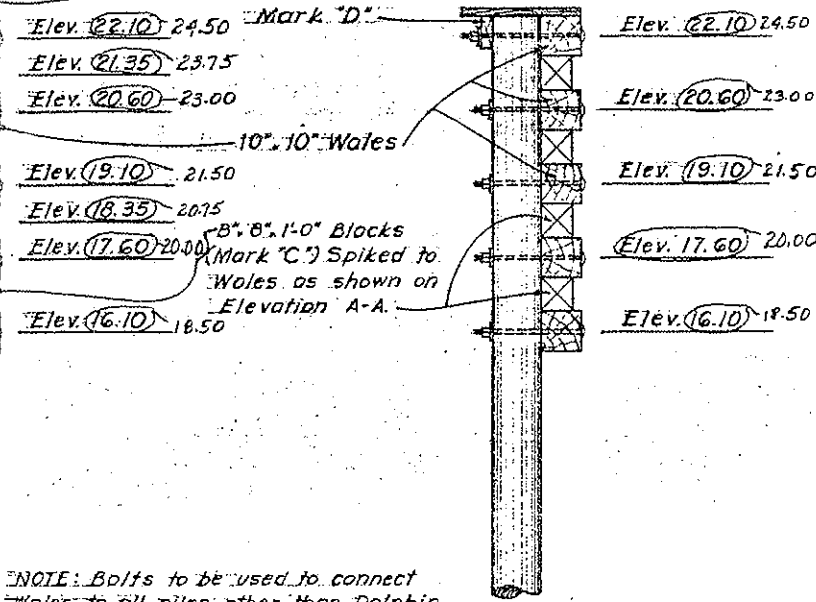


DETAIL OF FENDER (With Catwalk Omitted)

Catwalk full length of both fenders. (Mark "E") 2" x 6" x 2'-6" @ 7' c. to c.



SECTION C-C



SECTION D-D

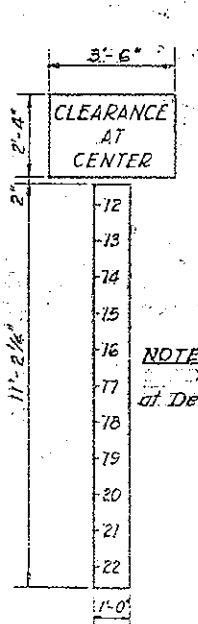
NOTE: 1/8" x 19" Drive Spikes shall be used to connect wales to all Dolphins

NOTE: Bolts to be used to connect wales to all piles other than Dolphin Piles. All bolts 1/8" x complete with nut and O.G. Washer.

GENERAL NOTES

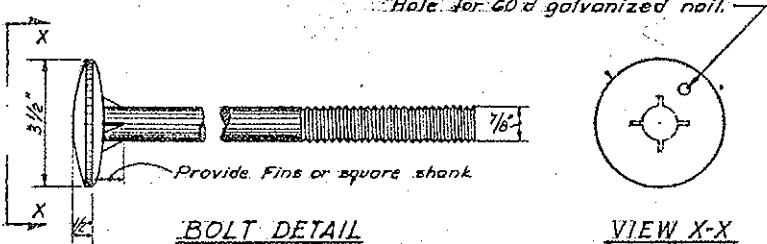
TREATMENT: All Timber shall be given 12 lb. Treatment.
 TIMBER: All Timber shall be rough.
 HARDWARE: All Hardware shall be hot-dip-galvanized in accordance with requirements of A.S.T.M. Specification Designation A-123.
 FORGED NUTS: Special forged nuts, equal in diameter of O.G. Washer may be used in lieu of O.G. Washer.
 PILE TIPS: 7" Diameter Tips will be accepted on Timber Piles.
 PILE HEADS: Treat with Creosote oil and pitch as specified in Article 405-612 and cover with 16 oz. copper sheets at least 4 inches larger in each dimension than the diameter of the pile. Bend cover down and fasten with large headed copper nails or three wraps of #12 Copper Wire.

NOTE: The cost of Hardware shall be included in the Contract Unit Price for treated Structural Timber.
 NOTE: Signs to be furnished by State Road Department and erected by the Contractor. Cost of erecting signs to be included in the Contract Unit Price for Treated Structural Timber.



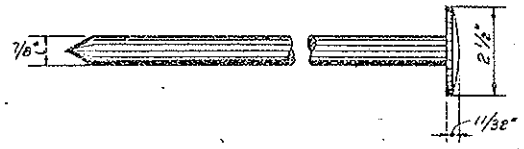
CLEARANCE GAGE

NOTE: Set Sign to 17'-0" at Design Water El. 22.30



BOLT DETAIL

VIEW X-X



DRIVE SPIKE DETAIL

Outside piles to be equally spaced 14' center and drawn together at top with 3 strands of 6 x 19 x 3/8" galvanized cable at elevations +18.35 and +21.35

Drive piles on 3 ft. centers and draw together at top with 3 strands of 6 x 19 x 3/8" galvanized cable at elevations +18.35 and +21.35

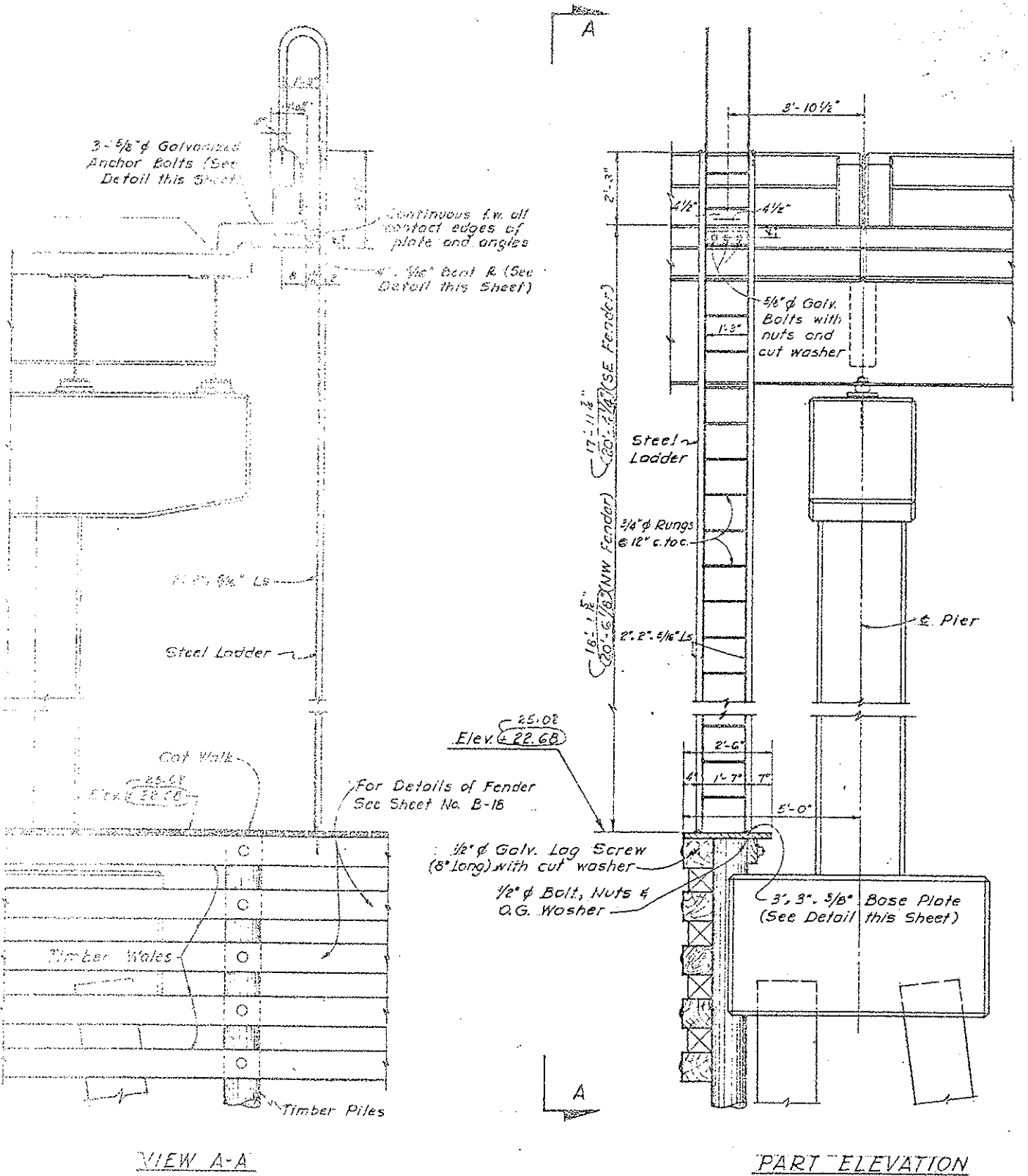
DETAIL OF 3 PILE CLUSTER



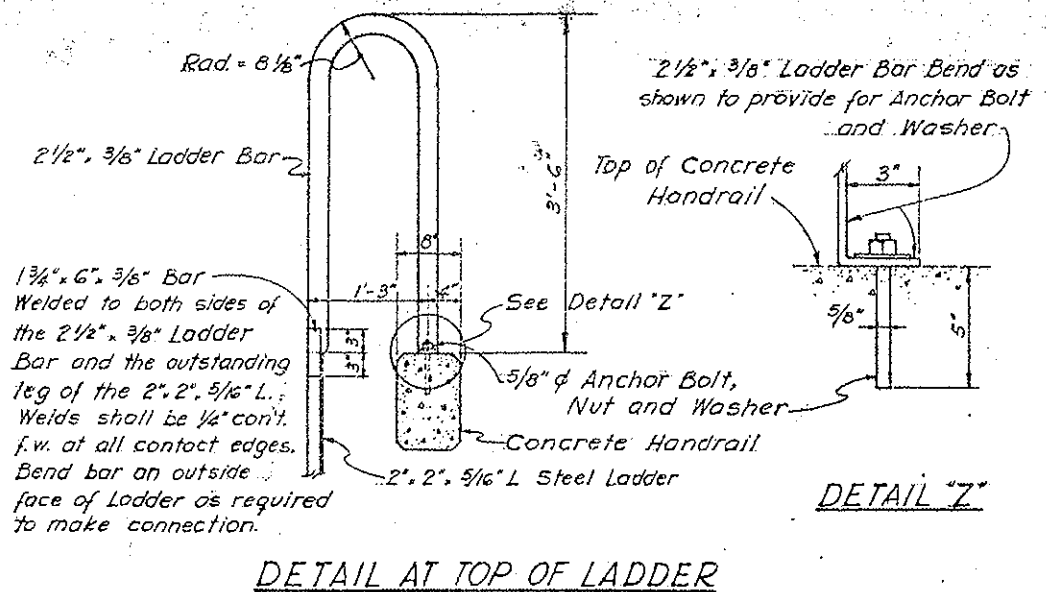
FENDER DETAILS

STATE ROAD DEPARTMENT OF FLORIDA
 BRIDGE DIVISION
 BRIDGE ON S.R. 70
 OVER KISSIMMEE RIVER

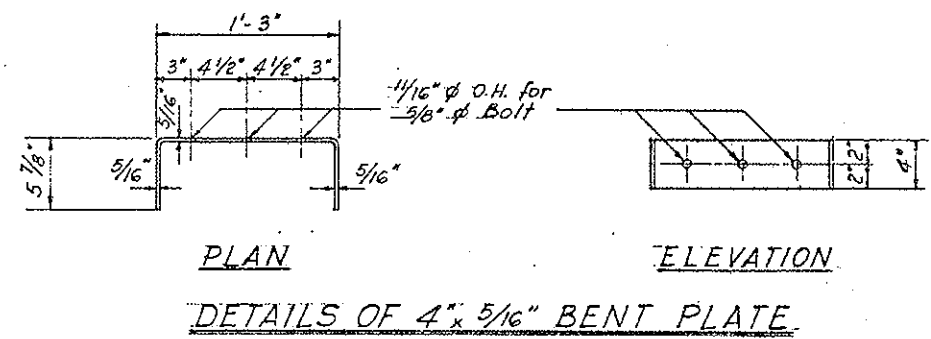
REVISIONS	ROAD NO.	COUNTY	PROJECT NO.
Date: 9/65 Description: Raised elevations on Fenders 2.4'	S.R. 70	OKEECHOBEE	91070-3502
APPROVED BY	Drawn by: G.A.R.	Date: 8-24-64	Checked by: E.A.E.
		Date: 1-65	



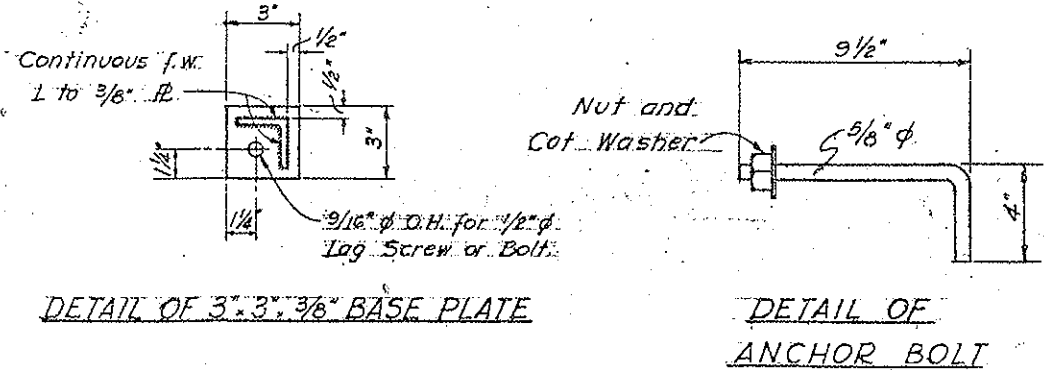
DETAILS OF ACCESS LADDER TO FENDER



DETAIL AT TOP OF LADDER



DETAILS OF 4\"/>



DETAIL OF 3\"/>

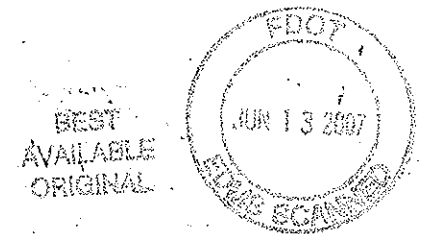
DETAIL OF ANCHOR BOLT

ITEM	UNIT	QUANTITY
Structural Steel	Lump Sum	*

* See Estimated Bridge Quantities. (The estimated quantity of Structural Steel for Two Ladders is 572 lbs. Carbon Steel.)

NOTE: Aluminum Ladder Assembly of approved corrosion Resistant Alloys and of strength equal to the steel design shown may be substituted at the option of the Contractor. If aluminum alternate is used detail drawings shall be submitted to the Engineer for Approval.

NOTE: All steel for Ladders including plates, shapes, bars, bolts, nuts and washers shall be hot dip galvanized in accordance with requirements of A.S.T.M. Specification Designation A-129. Welding of parts shall be done prior to galvanizing.



ACCESS LADDER ASSEMBLY
STATE ROAD DEPARTMENT OF FLORIDA
BRIDGE DIVISION
BRIDGE ON S.R. 70
OVER KISSIMMEE RIVER

REVISIONS	ROAD NO.	COUNTY	PROJECT NO.
Date: 3/65 Description: Revised Top of Fender & A-1 Estimated Quantities of Structural Steel	S.R. 70	OKEECHOBEE	91070-3502
Checked by: P.A.R. 10-66	Drawn by: G.A.R. 9-66	Approved by:	