CONTRACT NO. B-12648

INDEX

PROJECT	STRUCTURE	TYPE	SPAN	OVER	STATION
I-FRI-65-2(104)68	I-65-68-4699 B & JB	DECK RECONSTRUCTION AND OVERLAY	SEE GENERAL PLAN	DRIFTWOOD RIVER	

SHEET NO.	SHEET DESIGNATION	SUBJECT	F.H.W.A. APPROVAL
1		Title and Index Sheet	
2		Traffic Maintenance Details	
3		Traffic Maintenance Details	
4	D1	General Plan	
5	D2	Construction Procedures, general Notes, Material Notes, Standard Drawing Table And Details	
6	D3	Expansion Joint Class S-S Details	
7	D4	Expansion Joint Class S-S Details	
8	D5	Expansion Joints Class S-S	
9	D6	Barrier Railing, Type "X" Details	
10	D7	Miscellaneous Details	
11		Estimate of Quantities	

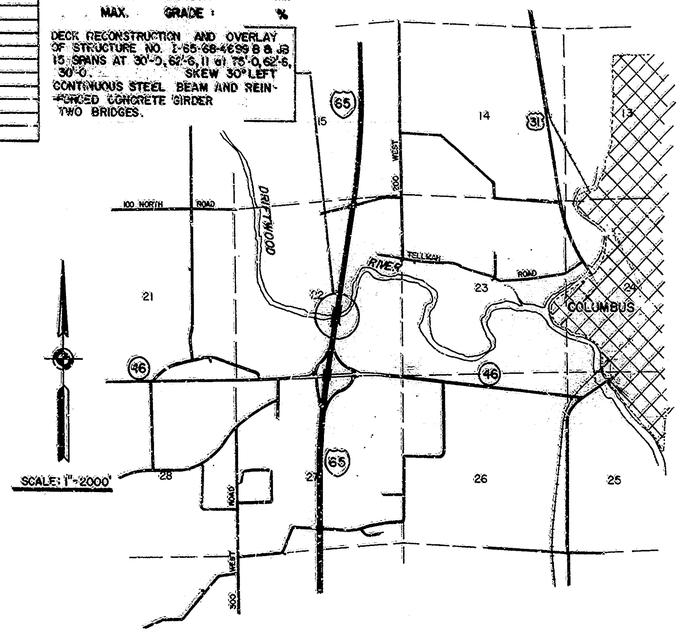
STATE OF INDIANA
INDIANA STATE HIGHWAY COMMISSION

BRIDGE PLANS
FOR SPANS OVER 20 FEET
ON
INTERSTATE 65
PROJECT NO. I-FRI-65-2(104)68

STRUCTURE NO. I-65-68-4699 B & JB LOCATED ON INTERSTATE 65 OVER DRIFTWOOD RIVER IN SECTION 22, T 9N, R 5E, APPROXIMATELY 0.3 MILES NORTH OF S.R. 46 IN BARTHOLOMEW COUNTY.

BRIDGE	LENGTH:	MI.
ROADWAY	LENGTH:	MI.
TOTAL	LENGTH:	MI.
MAX.	GRADE :	%

DECK RECONSTRUCTION AND OVERLAY OF STRUCTURE NO. I-65-68-4699 B & JB 15 SPANS AT 30'-0, 62'-6, 11 @ 75'-0, 62'-6, 30'-0. SKEW 30° LEFT
CONTINUOUS STEEL BEAM AND REINFORCED CONCRETE GIRDER TWO BRIDGES.



TRAFFIC DATA		
A.D.T. (1978)	15,300	V.P.D.
A.D.T. (19 PROJECTED)		V.P.D.
D.H.V. (19 PROJECTED)		V.P.D.
TRUCKS	D.H.V. %	A.D.T. %
DESIGN SPEED		M.P.H.
ACCESS CONTROL		

THESE PLANS PREPARED BY
FINK, ROBERTS & PETRIE INC.
CONSULTING ENGINEERS
INDIANAPOLIS, INDIANA

Certified By [signature]
Date Feb 27, 1980

REVISIONS	
DATE	SHEET NO.
6-27-80	1, 5, 11 ; 17A add

REVISIONS	
DATE	SHEET NO.

INDIANA STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS DATED 1978 TO BE USED WITH THESE PLANS.

BRIDGES OVER 20' SPAN

TYPICAL CLASS NO.	STATE	PROJECT NO.	STATE SHEET NO.	TOTAL SHEETS NO.	ADD'L SHEETS NO.
5	IND.	I-FRI-65-2(104)68	1	25	

INDEX CONTINUED
STANDARD DRAWINGS

SHEET NO.	SHEET DESIGNATION	SUBJECT	F.H.W.A. APPROVAL DATE	REVISED TO DATE
	BRIDGE STD. C21	CONCRETE RAILING DETAILS		
	BRIDGE STD. C31	CONCRETE RAILING EXISTING DETAILS		
	BRIDGE STD. C32	STEEL RAILING DETAILS		
	BRIDGE STD. C33	STEEL RAILING DETAILS		
	BRIDGE STD. C34	RAILING CONNECTION DETAILS		
12	BRIDGE STD. C1	MISCELLANEOUS DETAILS	6-13-77	6-1-77
	BRIDGE STD. C2	MISCELLANEOUS DETAILS		
	BRIDGE STD. C3	MISCELLANEOUS DETAILS		
	BRIDGE STD. C4	MISCELLANEOUS DETAILS		
	BRIDGE STD. D	CANTILEVER DETAILS - ROADWAY BEARING		
	BRIDGE STD.			
	BRIDGE STD. P4	PRESTRESSED CONCRETE TYPE I-BEAMS		
	BRIDGE STD. P5	PRESTRESSED CONCRETE TYPE I-BEAMS		
	BRIDGE STD. P6A	PRESTRESSED BOX BEAMS		
	BRIDGE STD. P8	PRESTRESSED CONCRETE BOX BEAMS - WIDE		
	BRIDGE STD. P9	PRESTRESSED CONCRETE BOX BEAMS - NARROW		
	BRIDGE STD. P810	STRANDPATTERN FOR PRESTRESSED BEAMS		
	BRIDGE STD. P811	ELASTOMERIC BEARING PAD DETAILS		
	BRIDGE STD.			
	BRIDGE STD.			
	BRIDGE STD. B2A	BRIDGE LIGHTING DETAILS		
	BRIDGE STD. B2B			
	BRIDGE STD. A1	MISCELLANEOUS DETAILS		
	BRIDGE STD. M1	MISCELLANEOUS DETAILS		
	BRIDGE STD. T SHEET A	STANDARD TEMPORARY BRIDGE		
	BRIDGE STD. T SHEET B	STANDARD TEMPORARY BRIDGE		
	BRIDGE STD.			
	BRIDGE STD.			
	BRIDGE STD.			
	BRIDGE STD.			
	ROAD STD. SHEET A	STANDARD PAVEMENT JOINTS		
	ROAD STD. SHEET B	STANDARD PAVEMENT JOINTS		
	ROAD STD. SHEET MA	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET MB	MISCELLANEOUS STANDARDS		
13	ROAD STD. SHEET MB	MISCELLANEOUS STANDARDS		R-2-7-80
14	ROAD STD. SHEET MB2	MISCELLANEOUS STANDARDS	6-14-74	R-1-2-79
	ROAD STD. SHEET MC	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET MC1	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET MD	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET MD	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET ME	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET ME	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET MH	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET MH	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET MJ	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET MP	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET MR	MISCELLANEOUS STANDARDS		
15	ROAD STD. SHEET C82	TEMPORARY CONCRETE BARRIER	12-7-79	R11-1-79
	ROAD STD.	STANDARD METAL CONCRETE END CULVERTS		
	ROAD STD.	STANDARD METAL CONCRETE CULVERTS		
	ROAD STD. SHEET GB	GUARD RAIL CLASS		
	ROAD STD. SHEET GB	GUARD RAIL CLASS		
16	ROAD STD. SHEET GB1	GUARD RAIL CLASS GA	5-17-79	R-2-1-79
17	ROAD STD. SHEET GB2	ALUMINUM GUARD RAIL DETAILS	12-6-78	R-2-1-79
	ROAD STD. SHEET GB3	STEEL TUBE GUARD RAIL DETAILS		
17A	ROAD STD. SHEET GB4	W-BEAM GUARD RAIL	5-17-79	R-2-1-79
18	ROAD STD. SHEET GB10	GUARD RAIL ANCHOR BOXES	PENDING	R1-2-80
19	ROAD STD.			R-2-1-79
20	ROAD STD. SHEET 1 OF 2 SHEETS	TRAFFIC SIGN DETAILS	1-30-80	R-12-3-79
21	ROAD STD. SHEET 1D OF 2 SHEETS	SIGN PANEL DESIGN AND FABRICATION	12-28-79	R-30-1-79
22	ROAD STD. SHEET 1 OF 2 SHEETS	STANDARD METRIC SIGNS	11-15-79	R-1-1-79
23	ROAD STD. SHEET 1 OF 2 SHEETS	STANDARD METRIC SIGNS	5-18-77	R-9-1-77
24	ROAD STD. SHEET 1 OF 2 SHEETS	STANDARD METRIC SIGNS	5-18-77	R-9-1-77
25	ROAD STD. SHEET 1A OF 2 SHEETS	STANDARD METRIC SIGNS	11-15-79	R-8-1-79

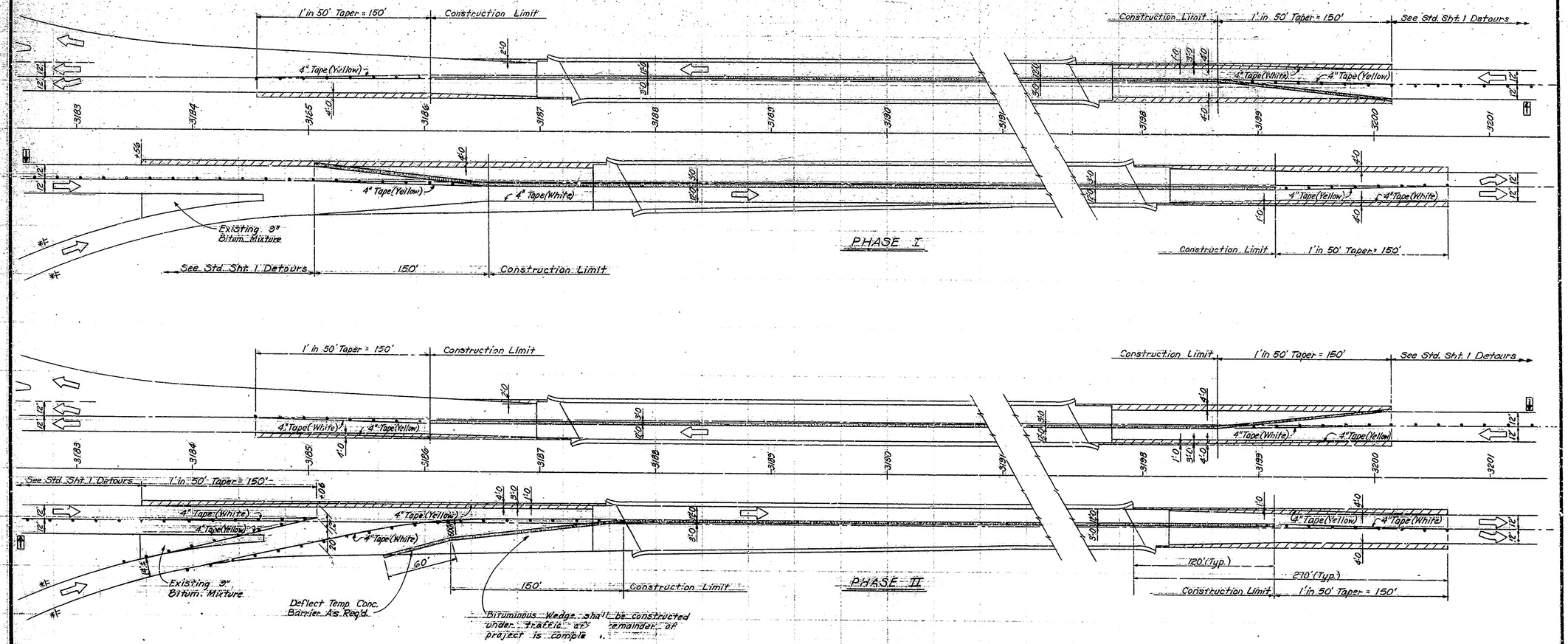
APPROVED 4-17-80
[signature]

RECOMMENDED FOR APPROVAL 4-11-80
[signature]

FEDERAL HIGHWAY ADMINISTRATION
DEPARTMENT OF TRANSPORTATION
APPROVED:
DIVISION ADMINISTRATOR DATE

BRIDGE FILE: I-65-68-4699 B & JB

BRUNING 65-500 32834



LEGEND

- Temporary Concrete Barrier. For details, see Sheet 3.
- Bituminous Widening. To remain in place. See Material Notes, Dwg. D2.
- Flashing Arrow Sign.
- Metal drum or Type I or II Barricade with Type "C" Steady Burning Light (Not a pay item).
- Construction Sign, XW-1A with Low Intensity Flashing Yellow Light, Type "A".

For Traffic Maintenance Notes, Estimated Quantities and additional details, see Sheet 3.

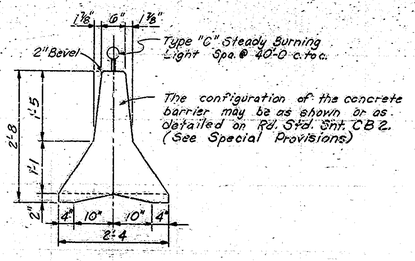
TRAFFIC MAINTENANCE DETAILS

INDIANA STATE HIGHWAY COMMISSION

SCALE: 1" = 40' DATE: 2-28-80

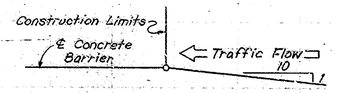
DRAWING OF SHEET: 2 OF 25
PROJECT: I-FRI-65-2(104)68
CONTRACT NO. B-12648
BRIDGE FILE: I-65-68-4699 B & JB

DESIGNED	PEB	CK'D	TEM
DRAWN	PEB	CK'D	TEM
TRACED		CK'D	



TEMPORARY CONCRETE BARRIER

Scale: 3/4"=1'-0



BARRIER RAIL OFFSETS

NOTES

One lane of traffic shall be maintained each way through the project area. Advance signing and merging two lanes to one lane is required ahead of structure. See Road Standard Sheet 1 "Detours for advance signing and merging from two lanes to one lane.

The existing white pavement edge lines on the right adjacent to the bituminous widening and on the bridge deck and approach slabs shall be removed prior to Phase I.

The existing white skip centerlines shall be removed at all locations where traffic is to be merged from two lanes to one lane.

The existing yellow pavement edge lines on the left adjacent to the bituminous widening outside the limits of the bituminous wedging placed during Phase I shall be removed prior to Phase II.

All signs shall be mounted in such a manner that the vertical distance between the bottom of the sign and the edge of the pavement shall not be less than 5 feet and the horizontal distance from the edge of the pavement to the edge of the sign shall not be less than 12 feet (R/W permitting) or 6 feet from edge of a paved shoulder.

The spacing of the metal drums of the Type I or II Barricades shall be as shown on Detour Sheet 1B.

Approved lights shall mark barricades and signs continuously at night.

Flashing Arrow panel shall be mounted in such a manner that the vertical distance between the bottom of the panel and the top of the pavement surface shall be not less than 7 feet.

The Flashing Arrow Sign shall be operated continuously day and night while any lane is closed.

Type C Steady Burning Lights shall be mounted on the top of Temporary Concrete Barrier when barrier is used to define an edge of lane. Spacing of lights shall be numerically equal to the posted speed limit with a maximum spacing of 40 feet.

Yellow Tape shall be placed along left edge of taper when median lane traffic is merged into outside lane.

White Tape shall be placed along right edge of taper when outside lane traffic is merged into median lane.

ESTIMATED QUANTITIES

Temporary Concrete Barrier	2820 LFT
Construction Sign, Type "A"	20 EA
Flashing Arrow Sign	2 EA
# Bituminous Widening	344 TON
Temporary Pavement Marking, Tape	6761 LFT
Removal of Line, Solid, White, 4"	3122 LFT
Removal of Thermoplastic Line, Skip, White, 5"	362 LFT
Removal of Line, Solid, Yellow, 4"	745 LFT
Line, Solid, White, 4"	3122 LFT
Thermoplastic Line, Skip, White, 5"	992 LFT
Line, Solid, Yellow, 4"	3122 LFT

Included in pay item "Bituminous Mixture For Approaches"

TRAFFIC MAINTENANCE DETAILS

INDIANA STATE HIGHWAY COMMISSION

SCALE: None, Unless Noted DATE: 2-28-80

Guy E. Cottrell

DRAWING OF SHEET: 3 OF 25

PROJECT: I-FRI-65-2(104)68

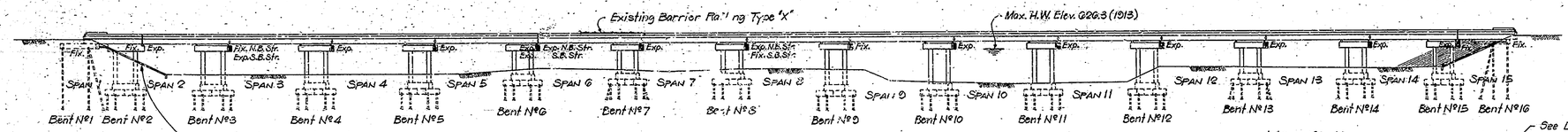
CONTRACT NO. B-12648

BRIDGE FILE: I-65-68-4629 B E JB

GUY E. CARTWELL 12226 REGISTERED PROFESSIONAL ENGINEER

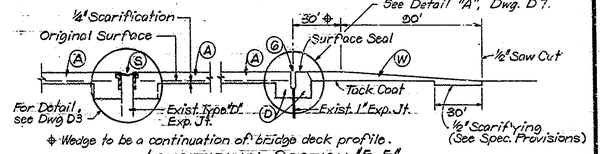
DESIGNED	PEB	CK'D	TEM
DRAWN	PEB	CK'D	TEM
TRACED		CK'D	

TP118



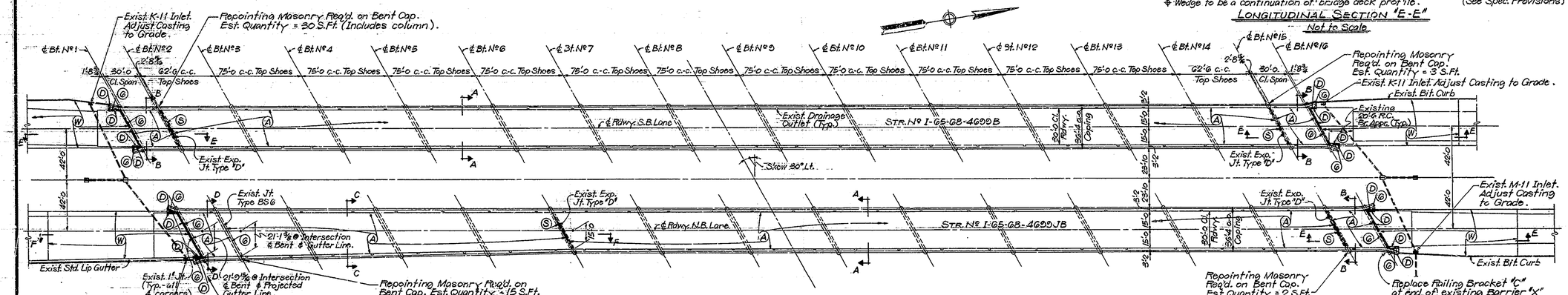
Slopewall Replacement Req'd. at South Ends of Bridges.
Estimated Quantities :
- Removal of Slopewall = 60 Sys.
- "B" Borrow = 20 Sys.
- 5" Conc. Slopewall = 60 Sys.

ELEVATION
Scale : 1" = 40'-0



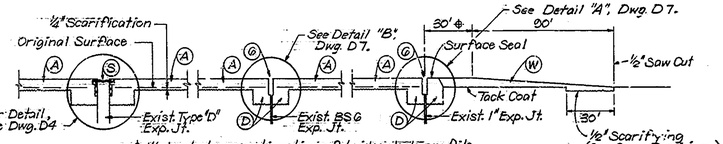
℄ Wedge to be a continuation of bridge deck profile.

LONGITUDINAL SECTION "E-E"
Not to Scale



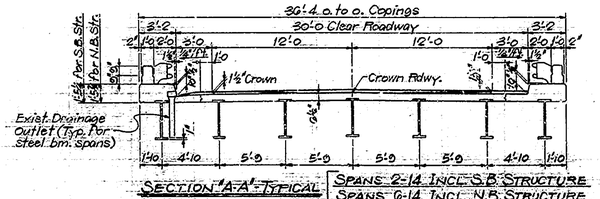
NOTE : Cost of removing and resetting Barrier "X" Rail to be included in cost of other items.

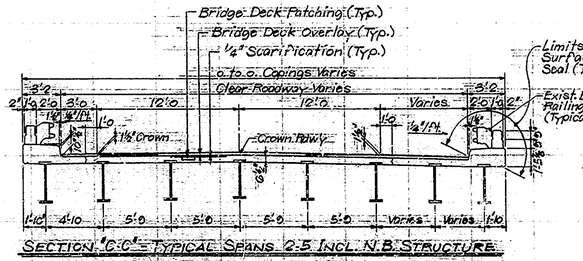
PLAN
Scale : 1" = 40'-0



℄ Wedge to be a continuation of bridge deck profile.

LONGITUDINAL SECTION "F-F"
Not to Scale





TYPICAL DECK SECTIONS
Scale : 3/16" = 1'-0

NOTE : Existing 1 1/2" Bituminous Overlay to be removed from bridge decks. Existing Bituminous Wedging at approaches to be removed.

NOTE : For Material Notes, See Drwg. De.

LEGEND

- (A) Bridge Deck Overlay and Limits of Scarification.
- (D) Ovt. lay Dam.
- (S) Expansion Joint, Class S-S.
- (W) Bituminous Wedge.
- (E) Expansion Joint, Type BS-6.

GENERAL PLAN
DECK RECONSTRUCTION AND OVERLAY
SINGLE STRUCTURES
CONTINUOUS STEEL BEAM & R.C. GIRDER BRIDGES

15 SPANS : 30'-0 ; 62'-6 ; 3 @ 75'-0 ; 8 @ 75'-0 ; 62'-6 ; 30'-0 N.B. STRUCTURE
15 SPANS : 30'-0 ; 62'-6 ; 11 @ 75'-0 ; 62'-6 ; 30'-0 S.B. STRUCTURE
SKEW 30° 0" LT. 2-30'-0 ROADWAYS
NORTH BOUND STRUCTURE TAPERED
INTERSTATE ROUTE 65 OVER DRIFTWOOD RIVER

INDIANA STATE HIGHWAY COMMISSION
BARTHOLOMEW COUNTY

SCALE:- As noted. DATE:- 2-28-80

Guy E. Cantwell

DESIGNED T.E.M. C'K'D FEB
DRAWN T.E.M. C'K'D BEB
TRACED C'K'D

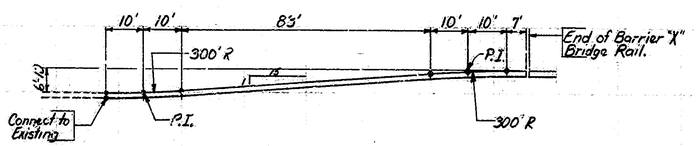
DRAWING D7 OF 7 SHEET 4 OF 25
PROJECT: I-FRI-65-2(104)68
CONTRACT NO. B-12648
BRIDGE FILE: I-65-68-4600 B & JB

CONSTRUCTION PROCEDURES

1. Construct all bituminous widening, install temporary barrier railing and other traffic control devices to divert traffic to one lane of travel in each direction.
2. Remove bituminous overlay from deck. Scarify bridge deck to a minimum of ¼". Scarify an additional ¼" as directed by the Engineer.
3. Remove all deteriorated concrete from all areas of the bridge floor and around all exposed reinforcing as directed by the Engineer and in accordance with the Special Provisions.
4. Blast and clean all scarified and removal areas.
5. Remove existing Expansion Joints, Types "D" and "BS", and construct Expansion Joints, Class "S-S" and Type "BS"
6. Place Bridge Deck Patching and Bridge Deck Overlay as shown on the plans and in accordance with the Special Provisions.
7. Replace broken brackets for Barrier "X" Rail.
8. Construct Bituminous Wedges.
9. Update guard rail at approaches to bridge.
10. Seal roadway face, top and coping face of curbs, parapet walls and wingwalls, all exposed surfaces of Barrier "X" Rail brackets and top of overlay dams on approaches with a penetrating epoxy sealer
11. Clean and paint all structural steel. (Est. weight = 1254 tons)
12. Repoint pier caps and repair slopewall as required and perform all other work shown on the plans.
13. Reset traffic control devices to divert traffic to completed lane and repeat steps 2 thru 12. When all work is completed, open structure to traffic.

(The numbers do not necessarily indicate the exact sequence of operation)

All removal equipment used for partial concrete removals of bridge structures shall be hand held. Pneumatic hammers, 30 lbs. maximum weight shall be used for all removal areas to be patched and all areas within 24 inches of full depth removal lines. Pneumatic hammers, up to 90 lbs. maximum weight may be used for all other removals outside these limits. Deck areas that are to be removed full depth shall be completely seperated from adjacent concrete before hammers heavier than 30 lbs. may be used.



G.R. RESETTING AT LOCATION ①

GENERAL NOTES

- Plans for existing structures are on file in the Bridge Dept. Indiana State Highway Commission as Project I-FI-65-2(82)68 Bridge File I-65-68-4699A & JA and are available upon request.
- Where new work is to be fitted to old work, the Contractor shall check all dimensions and conditions in the field and report any errors or discrepancies to the Engineer and assume responsibility for their correctness and the fit of the new part to the old.
- The handchipping and cleaning of deteriorated deck areas shall be as directed by the Engineer. It is the intent of these plans that all such deteriorated concrete be removed and should there be any doubt as to the quality of the concrete, removal shall continue until perfectly sound concrete is exposed. All existing non-full depth patches shall be removed.
- Concrete in patches for deteriorated concrete areas to scarified surface to be Special Class "A" Concrete bonded with epoxy bonding compound or Modified Portland Cement Concrete. See Special Provisions.
- All bituminous material required in this contract to be included in the pay item "Bituminous Mixture for Approaches, unless noted.
- The quantity shown for Overlay is based on theoretical lines while the quantity shown for Patching is estimated. Over-runs or under-runs of material will require adjustment of patching quantities only.
- Reinforcing steel covering shall be 1 inch at top (2½" from surface of Modified P.C.C. Overlay or 3¼" from surface of Dense P.C.C. Overlay) and 1 inch minimum at bottom of floor slabs and 2" in all other parts, unless noted.
- Concrete in Superstructure to be Class "A".

MATERIAL NOTES

Bridge Deck Overlay: 1¾" Modified Portland Cement Concrete or 2½" Dense Portland Concrete (See Special Provisions). Top of 1¾" Mod. P.C.C. Overlay to be 1½" above existing bridge floor and top of 2½" Dense P.C.C. Overlay to be 2¼" above existing bridge floor.

344 Tons — Bituminous Widening: 990 lbs./Syd. Bituminous Base, Type 5D.

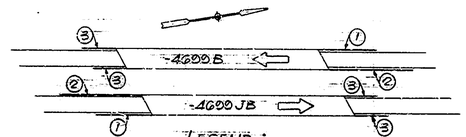
118.5 Tons — Bituminous Wedge: Bituminous Surface, Type 11B.

463 Tons — Bituminous Mixture for Approaches.

Painting Old Steel Bridge: All paint to be in accordance with the Special Provisions:
First Field Coat: Zinc Silicate.
Second Field Coat: Finish Coat.

STANDARD DRAWING TABLE

BRIDGE STD.	ROAD STD.	PURPOSE
CI		Bar Bending Details, Rebar Notes
	MB	Lip Gutter details
	MB2	Slopewall details
	GR4	Guard Rail Class "GA" details
	GR5	Aluminum Guard Rail details
	GR10	Guard Rail Buried End details
	GR9	Guard Rail Class DA details
	CB2	Temporary Concrete Barrier details
	Sht 1 Detours	Advance signing and merging of traffic
	Sht 1B Detours	Barricade Spacing
	Sht 2A Detours	Barricade Details
	Sht 3 Detours	Standard Detour Signs
	Sht 4 Detours	Standard Detour Signs
	Sht 5A Detours	Sign Design Details
	Sheet 9	Traffic Sign details



LEGEND:

130' and "Bs"

① Reset ~~160~~ L.Ft. Guard Rail Class "GA" adjacent to bridge. Connect to guard rail in place. (See Detail)

② ~~35'6"~~ of existing guard rail adjacent to bridge to remain in place. Reset ~~160~~ L.Ft. Guard Rail Class "GA" and ~~50~~ L.Ft. Guard Rail Class "GA". Except: Remove exist. buried end and install Guard Rail End Treatment.

③ No Change Reqd.

QUANTITIES:

Guard Rail Class "GA"	364 ~~410~~ L.Ft.
Reset Guard Rail Class "GA"	660 ~~520~~ L.Ft.
Removal of Guard Rail	0 ~~80~~ L.Ft.
Guard Rail End Treatment	0 ~~2~~ Each

GUARD RAIL REVISIONS

Not to Scale

② 35'6" of existing guard rail adjacent to bridge to remain in place. Reset 160 L.Ft. Guard Rail Class "GA" add 18'8" L.Ft. Guard Rail Class GA, then reset existing buried end. New & Reset Guard Rail & Buried End shall conform to the alignment and post spacing shown on GR9 for Class DA G.R.

CONSTRUCTION PROCEDURES, GENERAL NOTES, MATERIAL NOTES, STANDARD DRAWING TABLE AND DETAILS

INDIANA STATE HIGHWAY COMMISSION

SCALE:- As noted. DATE:- 2-28-80

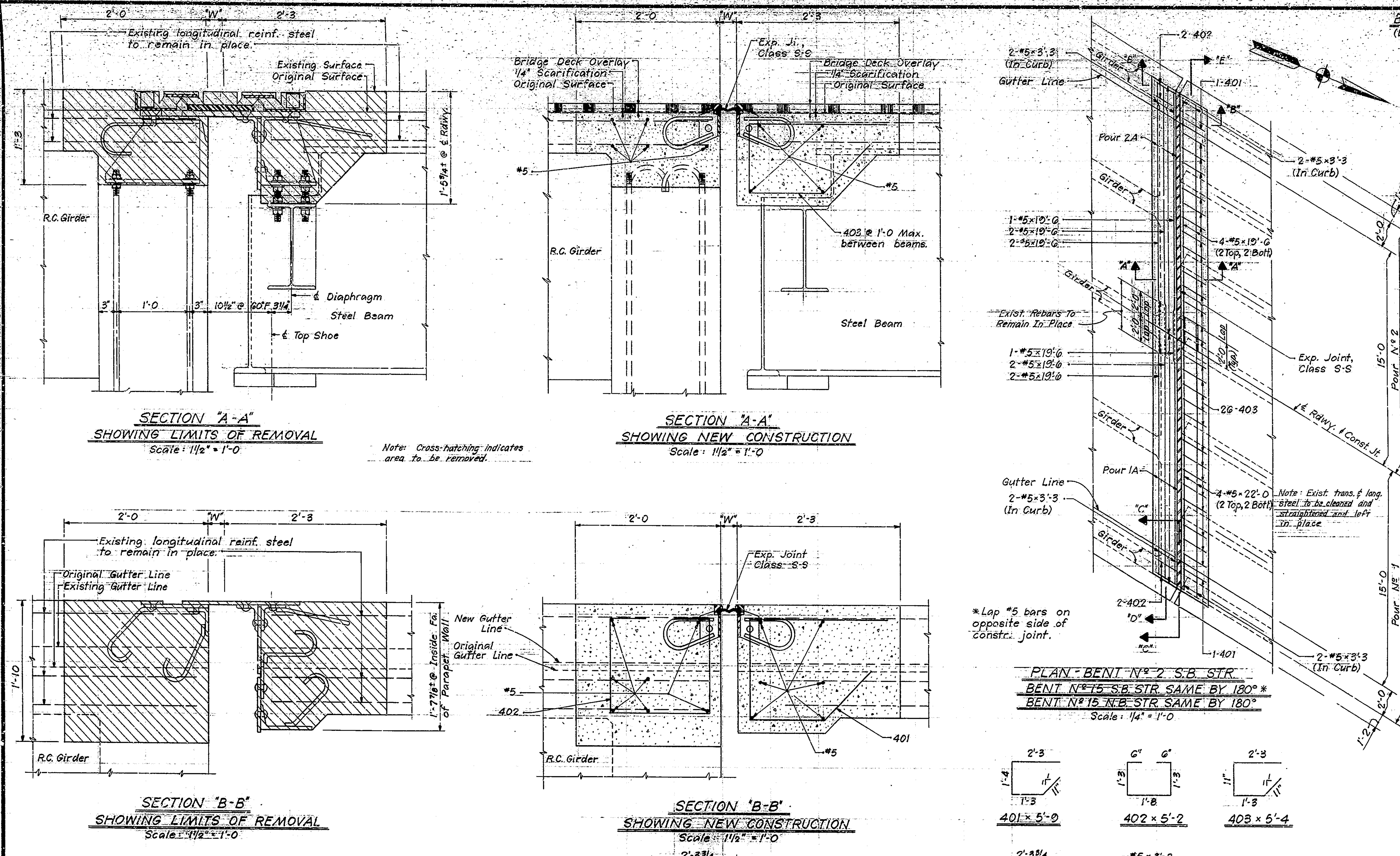
Mary E. Cantwell

DRAWING:- D2 OF 7 SHEET:- 5 OF 25
PROJECT:- I-FRI-65-2(104)68
CONTRACT NO. B-12648
BRIDGE FILE:- I-65-68-4699B & JB

DESIGNED PEB CK'D DDC
DRAWN BMB CK'D DDC
TRACED CK'D

Rev:- 6-27-80 G.R. Resetting, Legend ① & ②, & Standard Drawing Table

TP118



BILL OF MATERIALS - BT. Nº 2 S.B.

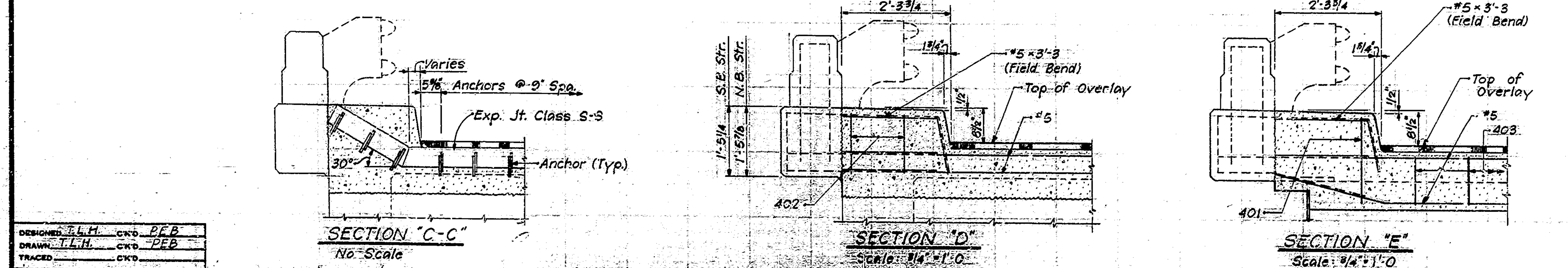
(Bent Nº 15 S.B. & Nº 15 N.B. Same)

REINFORCING STEEL			
Size & Mark	Nº of Bars	Length	Weight (Lbs.)
#5	4	22'-0	
#5	14	19'-6	
#5	8	3'-3	
Total #5			404
401	2	5'-9	
402	4	5'-2	
403	26	5'-4	
Total #4			114
Total Reinforcing Steel			518

CONCRETE		
Class "A" Concrete in Superstructure		
Pour Nº 1	1.9 Cys.	
Pour Nº 1A	1.5 Cys.	
Pour Nº 2	1.9 Cys.	
Pour Nº 2A	1.5 Cys.	
Total Class "A" Concrete		6.8 Cys.

MISCELLANEOUS	
Exp. Joint Class S-S	40 L.Ft.
Barrier "X" Railing Bracket, Type "A".	2 Ea.

For Notes, see Dwg. D4.



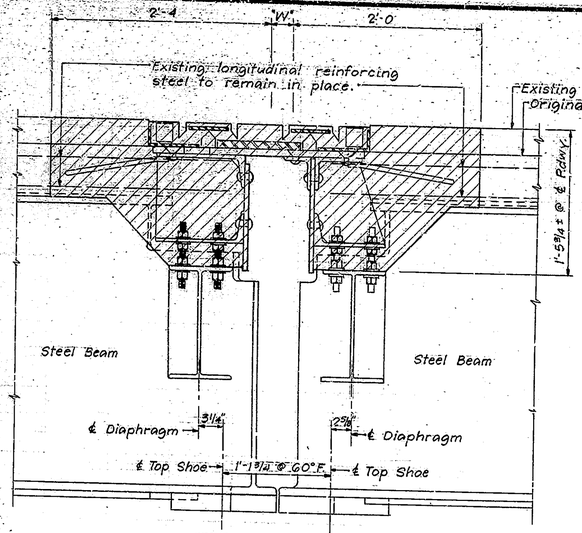
EXPANSION JOINT CLASS S-S @ BENT Nº 2 S.B., BENT Nº 15 S.B. AND BENT Nº 15 N.B.

INDIANA STATE HIGHWAY COMMISSION

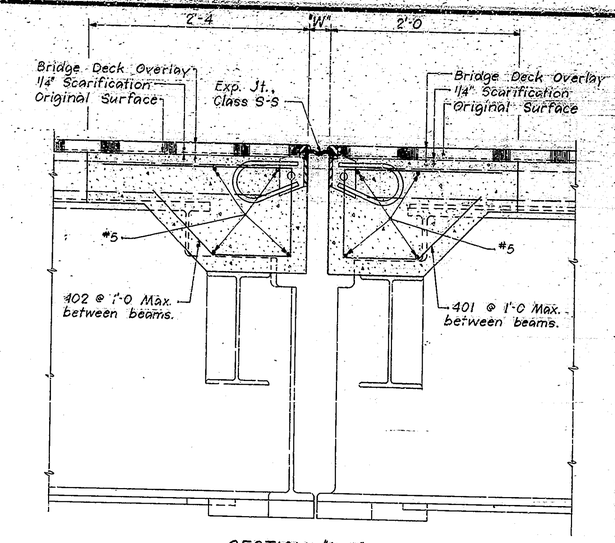
SCALE:- As shown   DATE:- 2-28-80

DRAWING:- D3 OF 7   SHEET:- 6 OF 25
PROJECT:- I-FRI-65-2(104)68
CONTRACT NO. B-12648
BRIDGE FILE:- I-65-68-4699B & JB

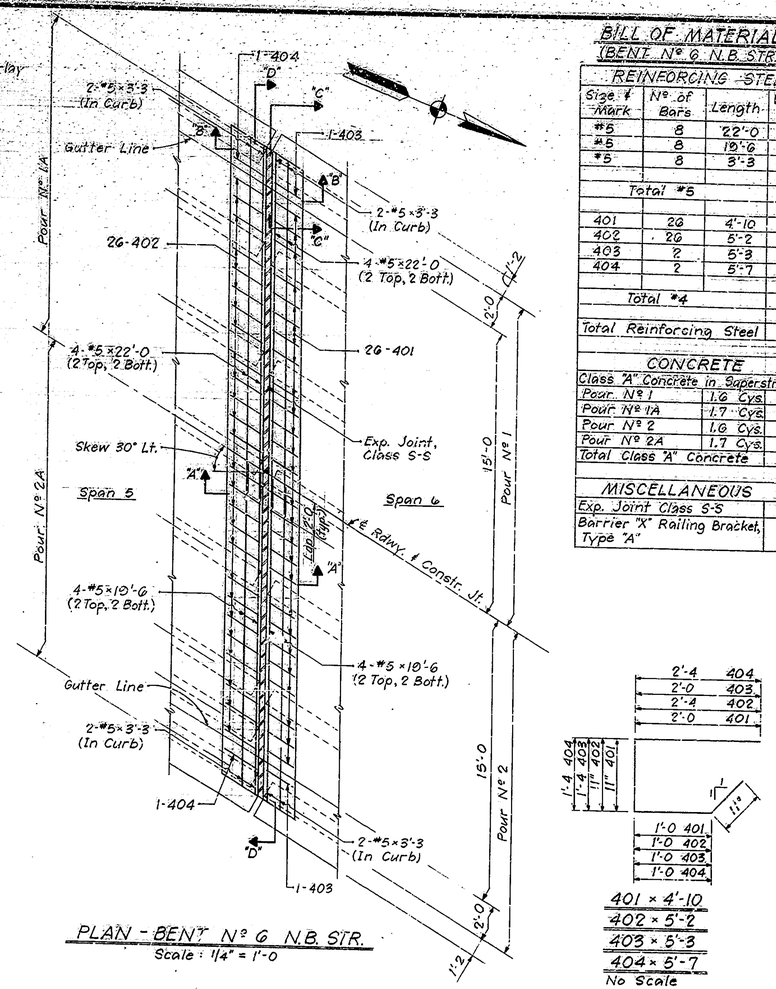
TP118



SECTION "A-A"
(SHOWING LIMITS OF REMOVAL)
Scale: 1 1/2" = 1'-0



SECTION "A-A"
(SHOWING NEW CONSTRUCTION)
Scale: 1 1/2" = 1'-0



PLAN - BENT No. 6 N.B. STR.
Scale: 1/4" = 1'-0

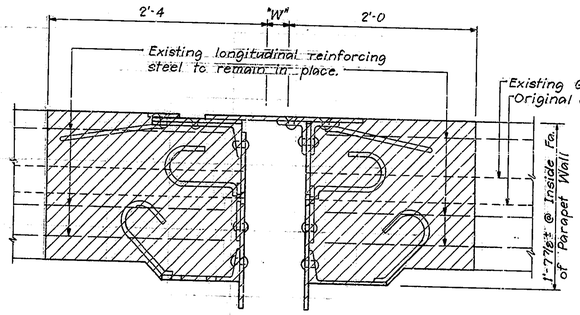
BILL OF MATERIALS
(BENT No. 6 N.B. STR.)

REINFORCING STEEL			
Size & Mark	No. of Bars	Length	Weight (Lbs.)
#5	8	22'-0	
#5	8	10'-6	
#5	8	3'-3	
Total #5			373
401	26	4'-10	
402	26	5'-2	
403	2	5'-3	
404	2	5'-7	
Total #4			188
Total Reinforcing Steel			561

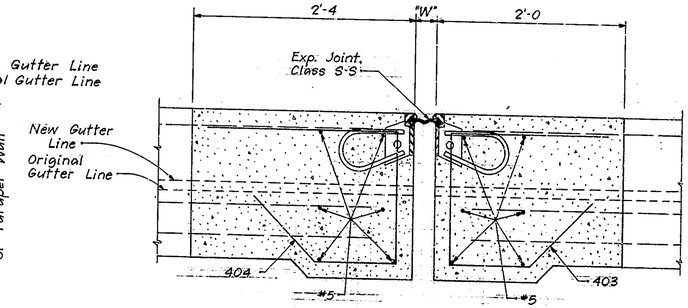
CONCRETE		
Class "A" Concrete in Superstructure		
Pour No. 1	1.6 Cys.	
Pour No. 1A	1.7 Cys.	
Pour No. 2	1.6 Cys.	
Pour No. 2A	1.7 Cys.	
Total Class "A" Concrete		6.6 Cys.

MISCELLANEOUS	
Exp. Joint Class S-S	40 Lft.
Barrier "X" Railing Bracket, Type "A"	2 Ea.

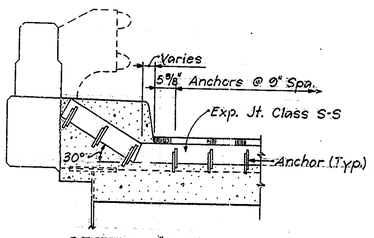
401 × 4'-10
402 × 5'-2
403 × 5'-3
404 × 5'-7
No Scale



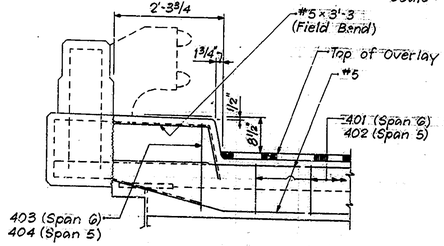
SECTION "B-B"
(SHOWING NEW CONSTRUCTION)
Scale: 1 1/2" = 1'-0



SECTION "B-B"
(SHOWING NEW CONSTRUCTION)
Scale: 1 1/2" = 1'-0



SECTION "C-C"
No Scale



SECTION "D"
Scale: 3/4" = 1'-0

NOTES:
- Dimension "W" to be as shown in Joint Setting Table, Dwg. D5
- Existing transverse and longitudinal reinforcing steel to be cleaned, straightened and left in place.
- See Bridge Std. C1 for reinforcing bar notes.

- For Details of Exp. Joint, Class S-S, see Dwg. D5.
- All contact surfaces of steel and concrete to be coated with epoxy bonding compound prior to pouring new concrete.
- All concrete in superstructure to be Class "A".
- Cost of removal and resetting of existing Barrier "X" Railing to be included in cost of other items. Cost of removal of existing Barrier "X" Railing Bracket to be included in cost of Barrier "X" Railing Bracket, Type "A".

DESIGNED T.L.H. C'K'D PEB
DRAWN T.L.H. C'K'D PEB
TRACED C'K'D

EXPANSION JOINT CLASS S-S @ BENT No. 6 N.B.

INDIANA STATE HIGHWAY COMMISSION

SCALE:- As shown

DATE:- 2-28-80

Mary E. Cantwell

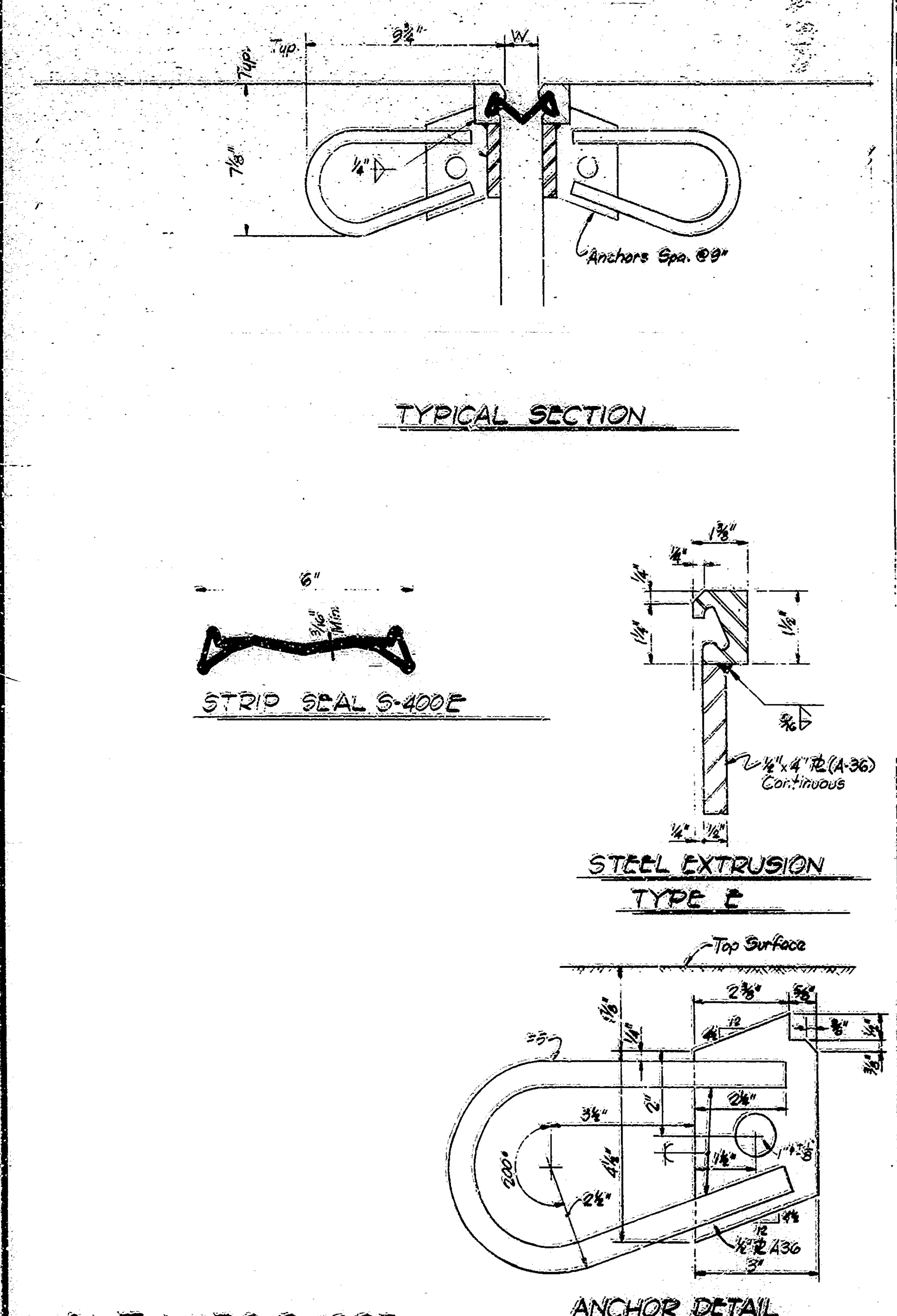
DRAWING D4 OF 7 SHEET:- 7 OF 25

PROJECT:- I-FRI-65-2(104)68

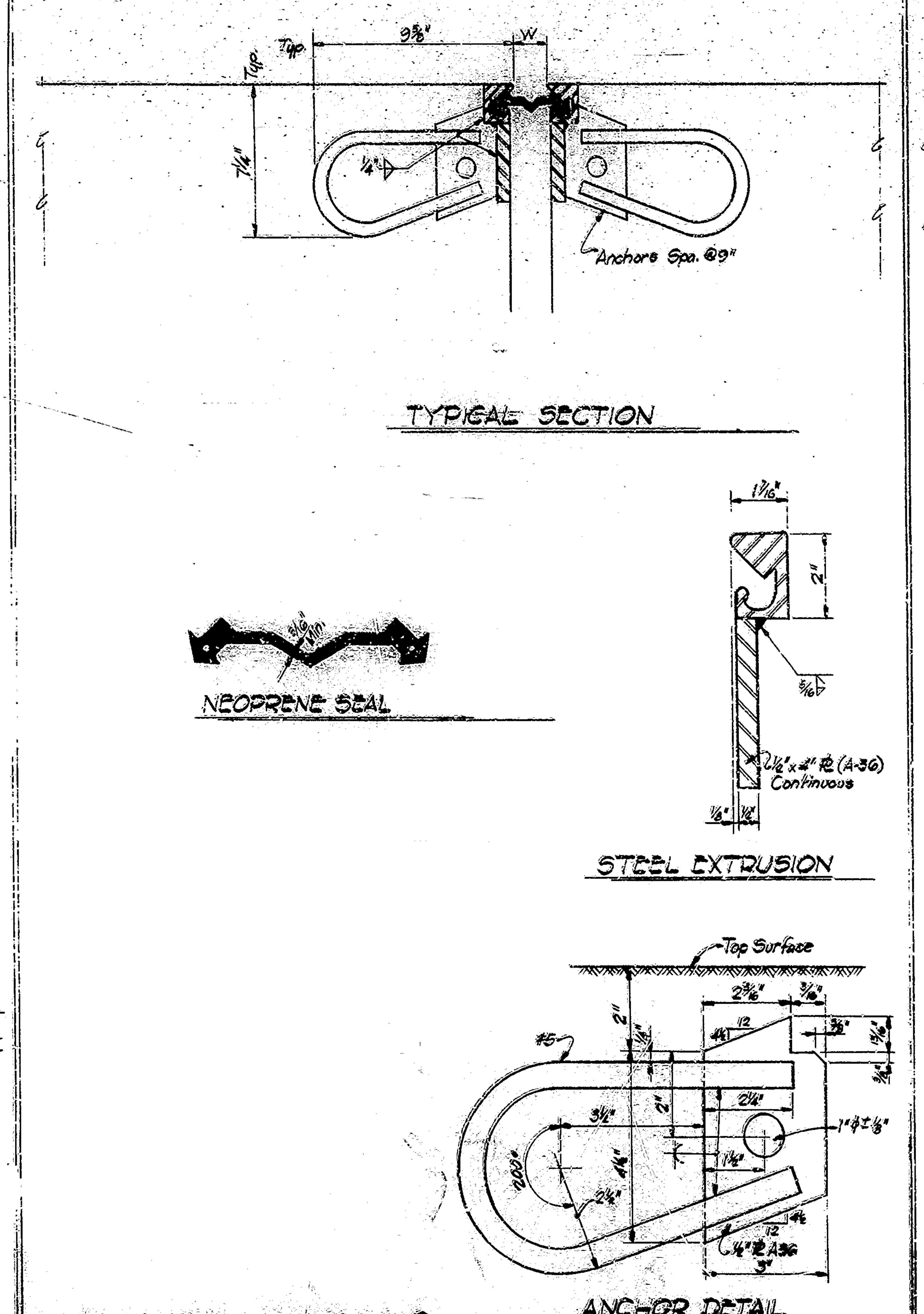
CONTRACT NO. B-10648

BRIDGE FILE:- I-65-68-4699B & JB

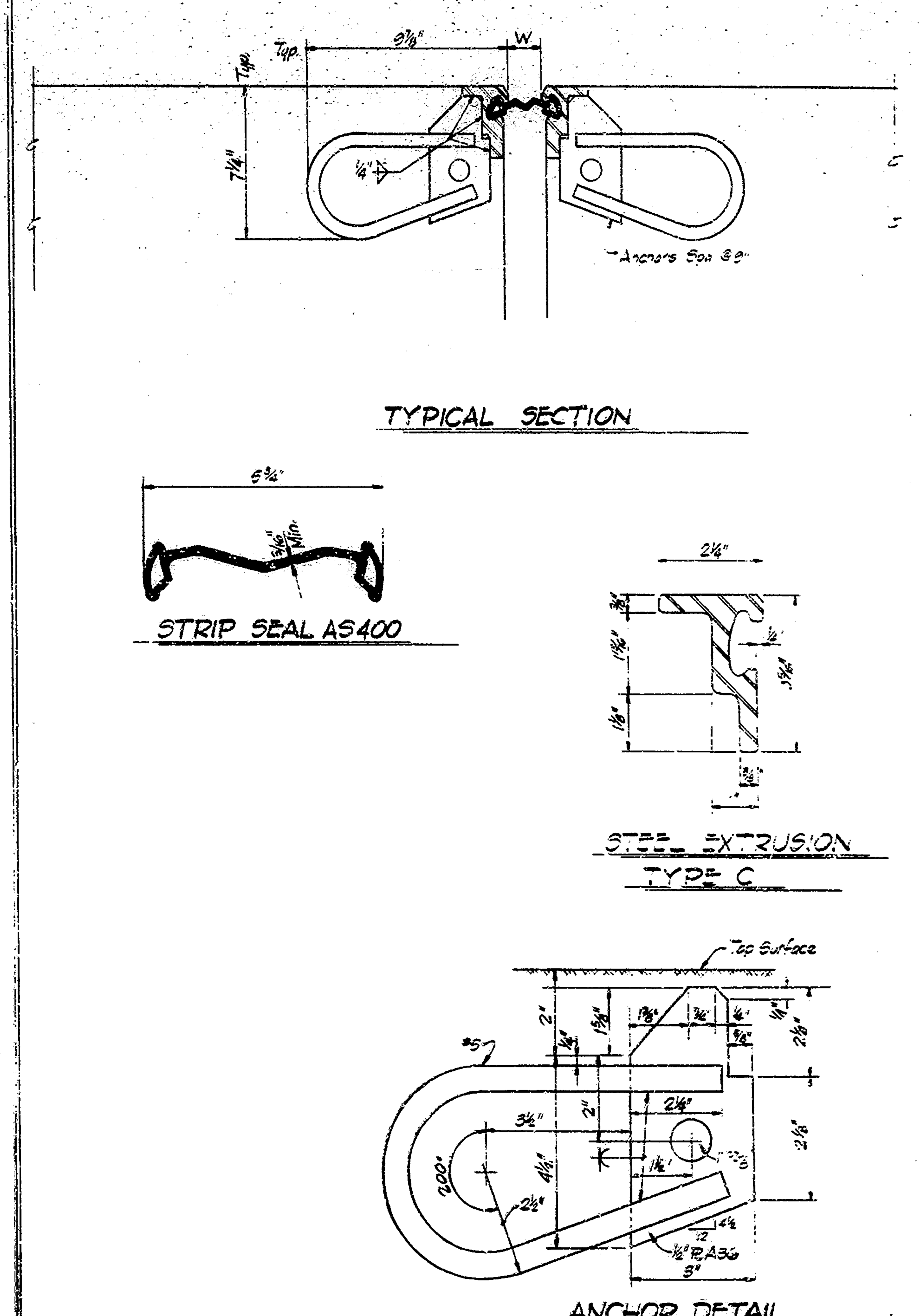
GARY L. CANTWELL PROFESSIONAL ENGINEER 12228 STATE OF INDIANA



JOINT WABO S-400E



JOINT DELASTIFLEX ®



JOINT ACMA AS 400 C

NOTES

SEE THE SPECIAL PROVISIONS FOR PROPERTIES OF MATERIALS.
THE COST OF EXTRUSIONS, ELASTOMERIC SEAL ELEMENTS, SEALANTS, ADHESIVE, CEMENT GROUT, ANCHOR SYSTEM AND INSTALLATION OF JOINT SHALL BE INCLUDED IN THE COST OF EXPANSION JOINT.
THE PROFILE OF THE JOINT IS TO CONFORM TO THE ROADWAY CROSS SECTION.
THE SEAL ELEMENT SHALL BE MOULDED AND FURNISHED IN A CONTINUOUS LENGTH EQUAL TO THAT REQUIRED FOR THE JOINT.
AT CHANGES IN DIRECTION (AT CURBS, MEDIAN BARRIERS, ETC.) THE SECTIONS OF JOINT ARE TO BE CUT TO THE BEVEL REQUIRED TO PRODUCE THE SAME CROSS SECTION ON EACH PIECE BEING JOINED.
THE ANCHOR ASSEMBLY, IS TO BE SHOP FABRICATED AND DELIVERED TO THE JOB SITE AS A COMPLETE CONTINUOUS UNIT FOR JOINT LENGTHS UP TO 44 FEET. JOINTS ABOVE LENGTHS OF 44 FEET OR JOINTS USED WITH STAGE CONSTRUCTION SHALL BE FIELD WELDED WITH ENDS TO BE SHOP PREPARED.
ALL WORK, BOTH SHOP AND FIELD, SHALL BE IN ACCORDANCE WITH 711.03.
ALL EXPOSED STRUCTURAL STEEL SURFACES WILL BE PAINTED IN ACCORDANCE WITH ISHC STANDARD SPECIFICATIONS.
THE CONTRACTOR SHALL SUBMIT 3 COPIES OF SHOP DRAWINGS FOR ALL JOINTS INVOLVING CURBS OR OTHER SPECIAL FEATURES.

DESIGNED		C'K'D	
DRAWN	DJS	C'K'D	
TRACED		C'K'D	

JOINT SETTING TABLE

Ambient Temperature	Dimension "W"		
	Expansion Length		
	[illegible]	[illegible]	[illegible]
120°	[illegible]	[illegible]	[illegible]
100°	[illegible]	[illegible]	1⅛"
80°	[illegible]	[illegible]	1⅞"
60°	[illegible]	[illegible]	[illegible]
40°	[illegible]	[illegible]	[illegible]
20°	[illegible]	[illegible]	3⅜"
0°	[illegible]	[illegible]	4"

Rev. 4-26-76 Bar and Anchor Spacing
Rev. 6-28-76 Joint Acma AS 400 C
Rev. 9-2-76 Joint S-400E
Rev. 11-22-76 Notes
Rev. 3-9-78 [illegible]
Rev. [illegible] Joint Delastiflex
Rev. 1-5-80 Notes

EXPANSION JOINTS CLASS S-S

INDIANA STATE HIGHWAY COMMISSION

SCALE:- NONE

DATE:- 2-28-80

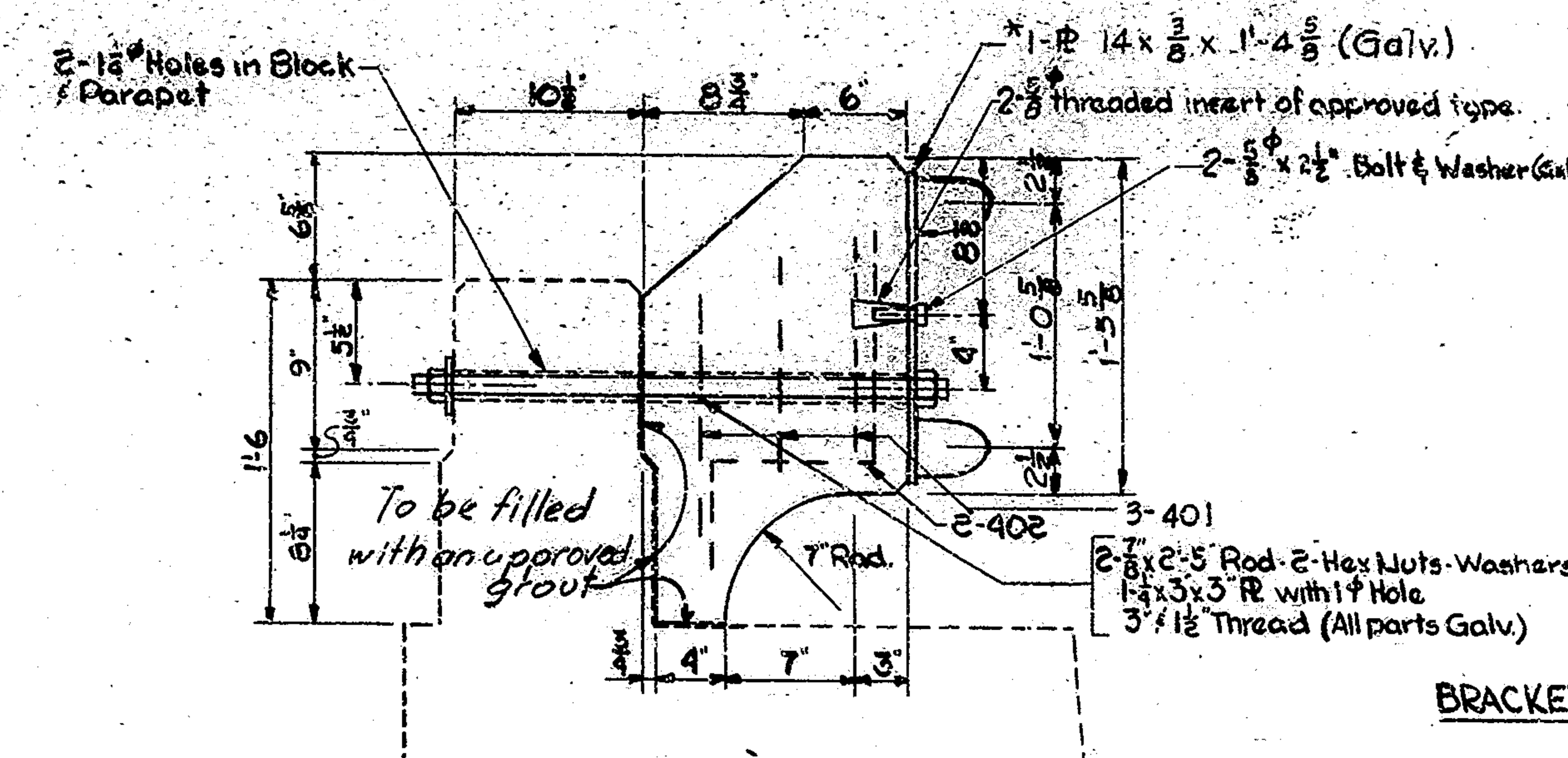
[signature]

DRAWING:- D5 OF 7 SHEET:- 8 OF 25

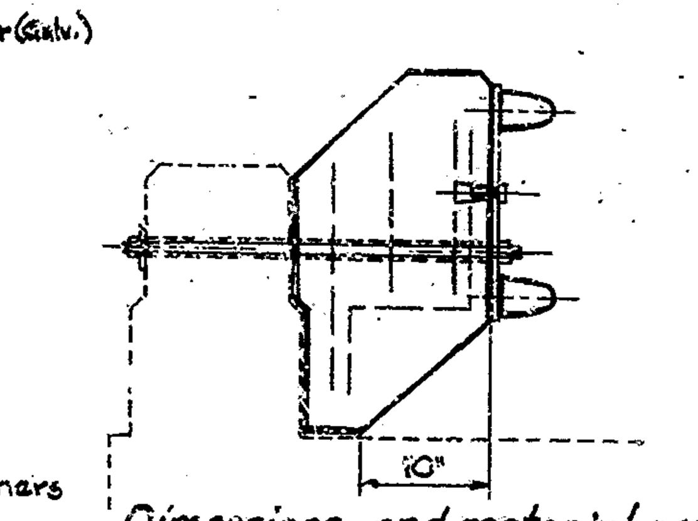
PROJECT:- I-FRI-65-2(104)68

CONTRACT NO. B-12648

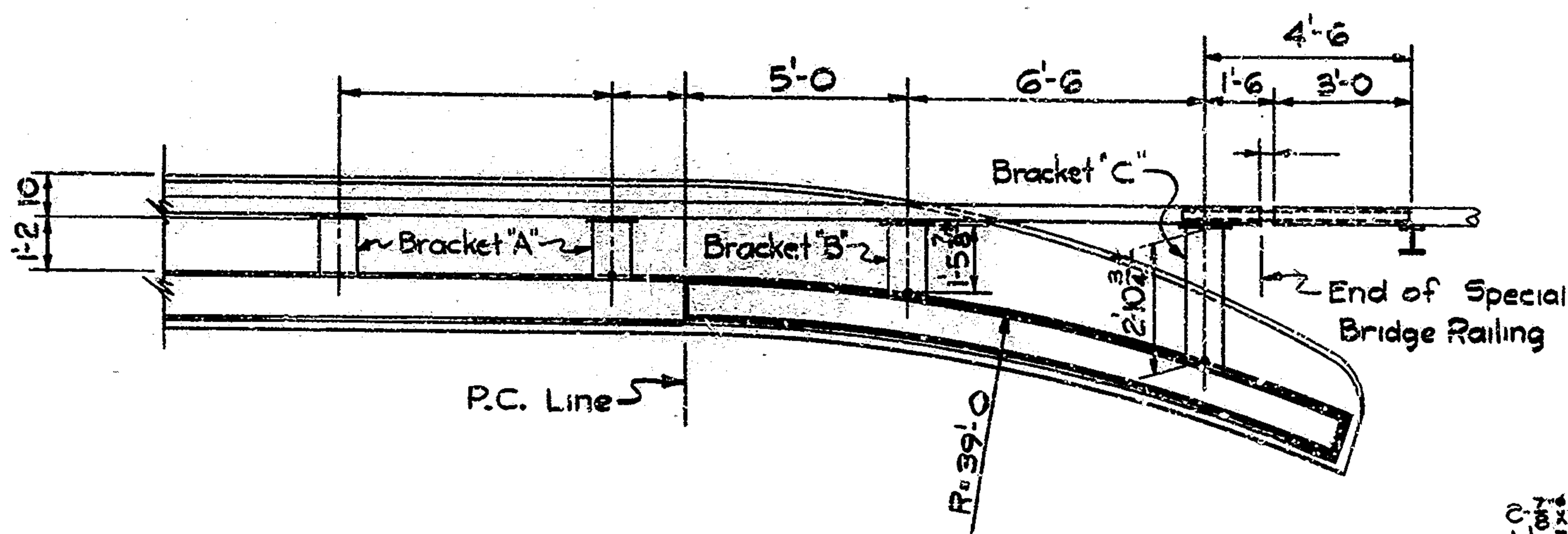
BRIDGE FILE:- I-65-69-4699 B; JB



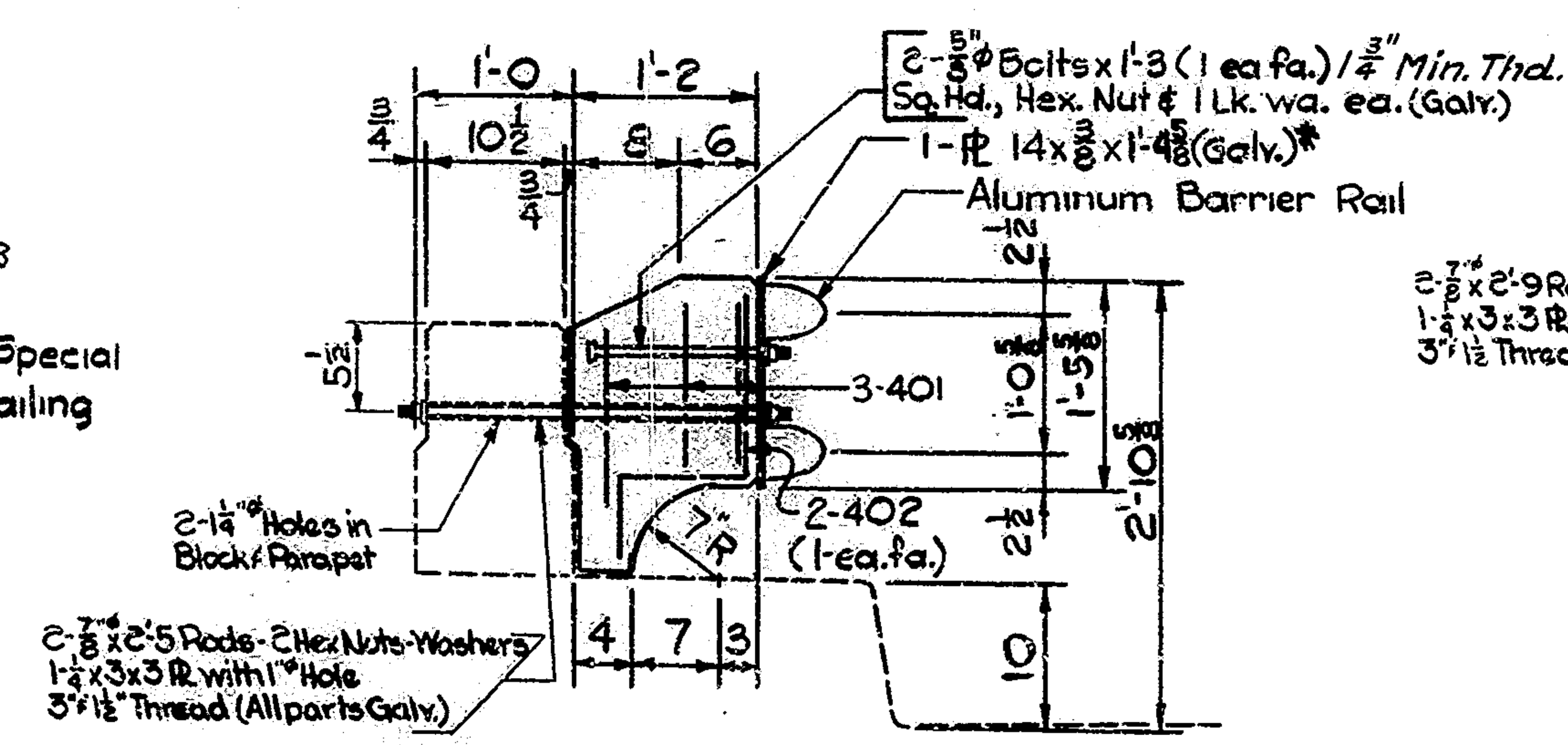
BRACKET "A" SECTION (PRECAST)
Scale: 1½"=1'-0



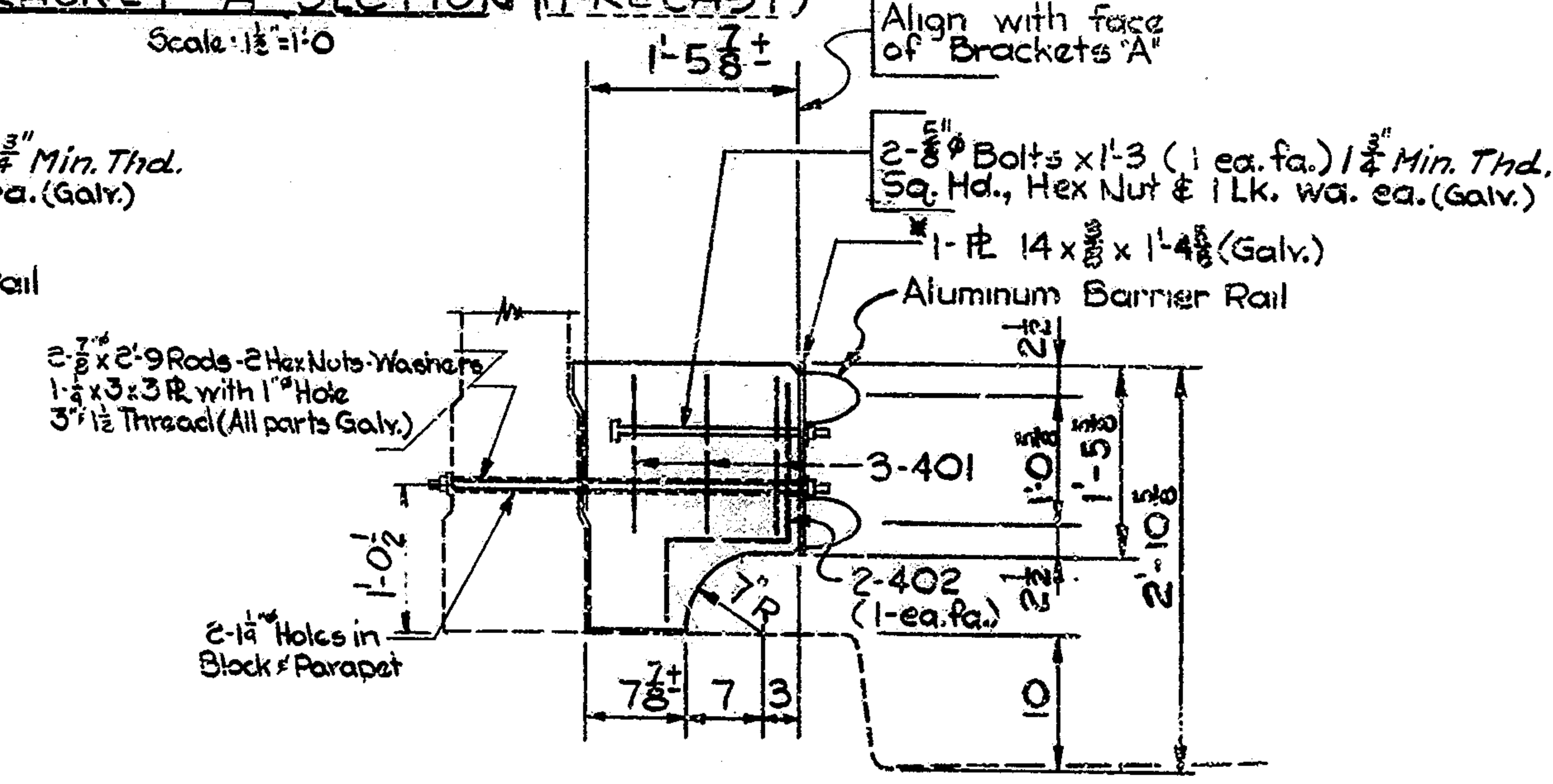
BRACKET "A" SECTION (PRECAST-ALTERNATE)
Scale: 1"=1'-0



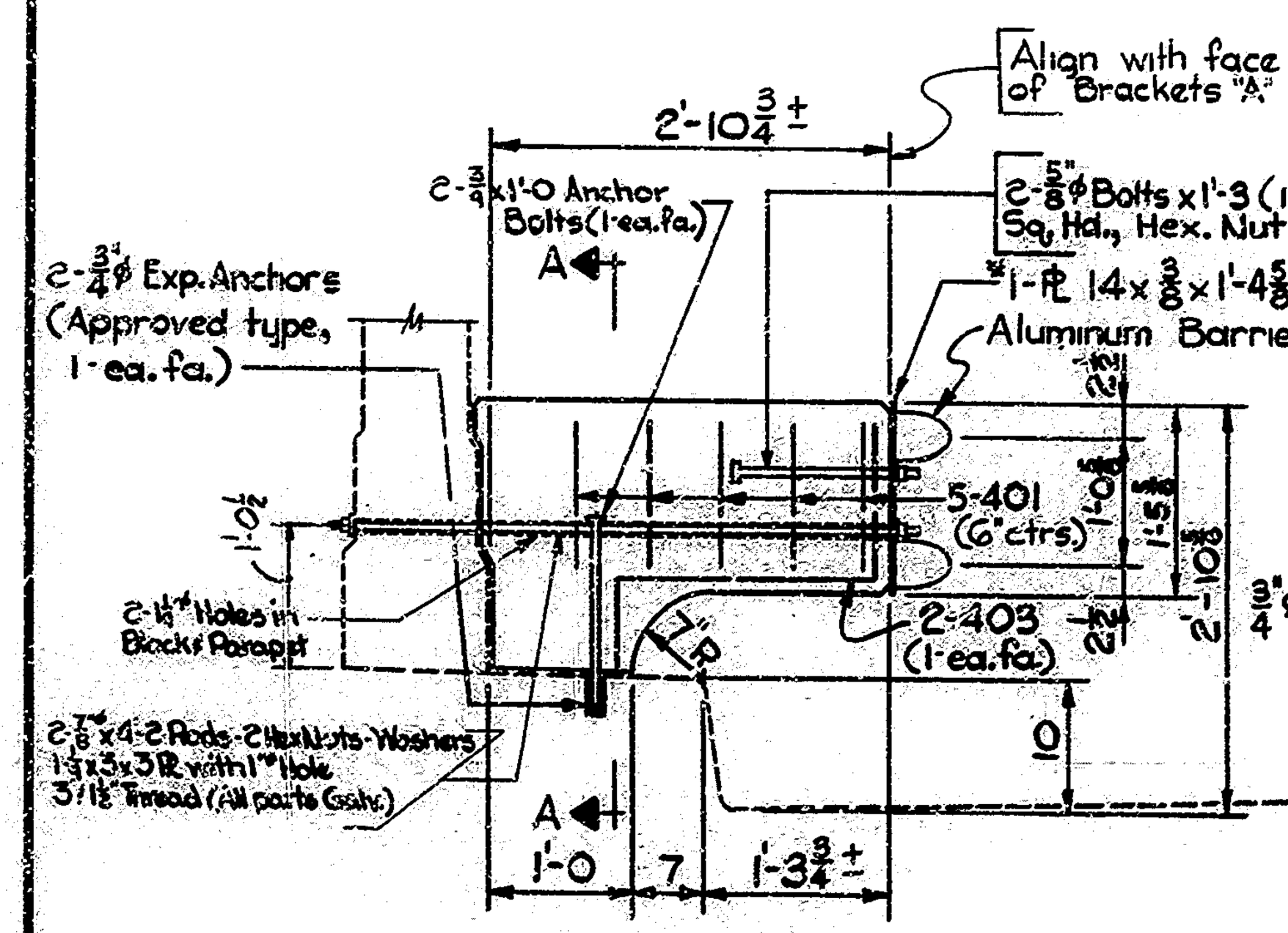
GUARD RAIL PLAN @ WING
Scale: ⅜"=1'-0



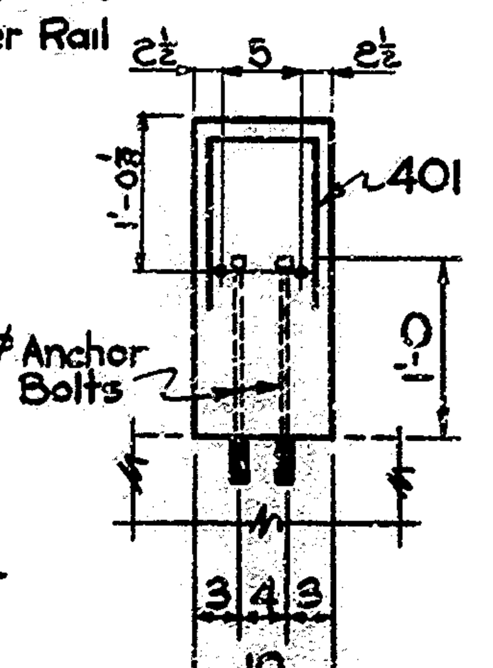
BRACKET "A" SECTION (CAST IN PLACE)
Scale: 1"=1'-0



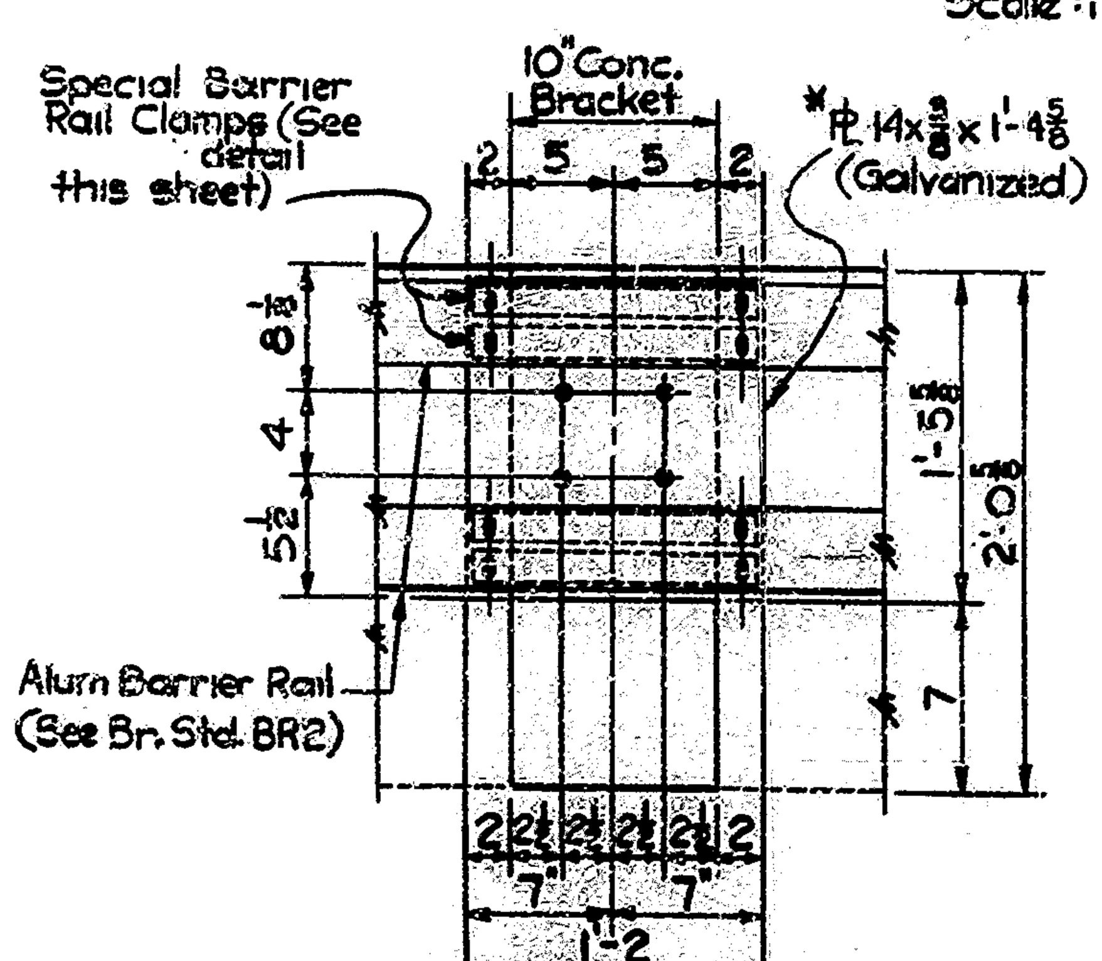
BRACKET "B" SECTION (CAST IN PLACE)
Scale: 1"=1'-0



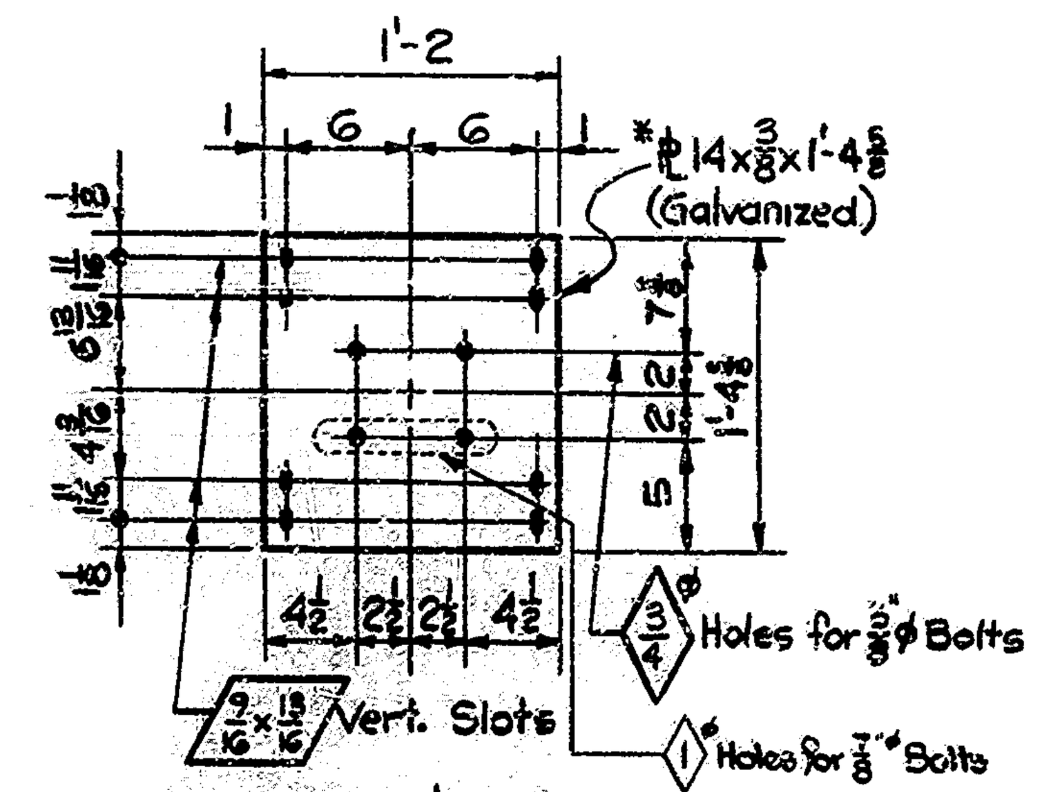
BRACKET "C" SECTION (CAST IN PLACE)
Scale: 1"=1'-0



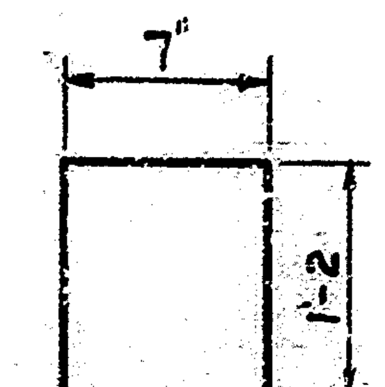
SECTION A-A
Scale: 1"=1'-0



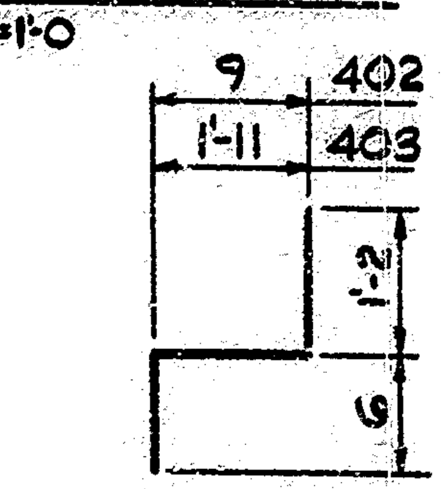
TYPICAL BRACKET ELEVATION
Scale: 1½"=1'-0



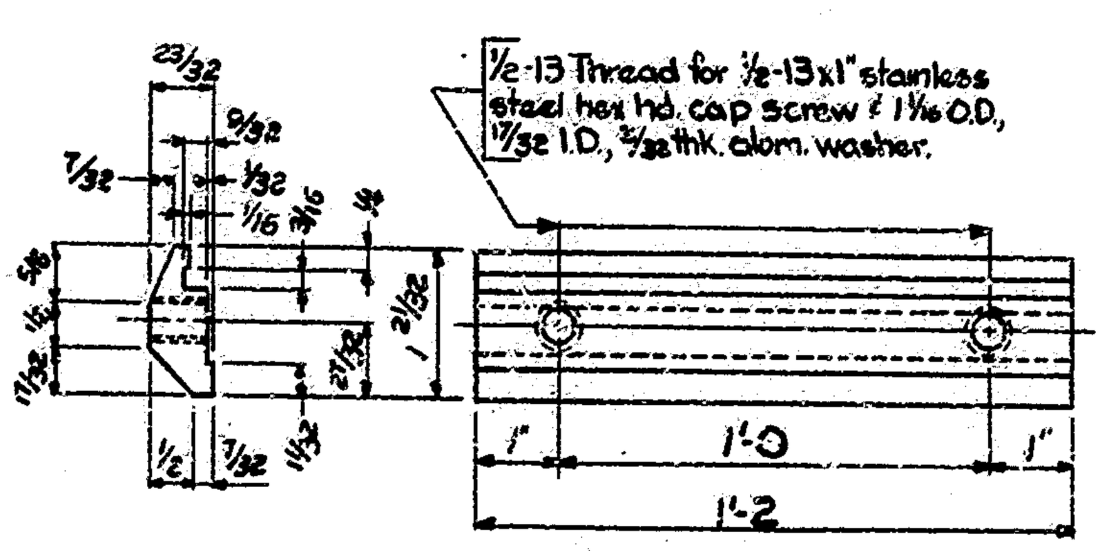
BRACKET PL DETAIL
Scale: 1½"=1'-0



401 x 2'-11



402 x 2'-5
403 x 3'-7



SPECIAL BARRIER RAIL CLAMP BAR
Not to Scale

NOTES:

Material in ⅞" Steel Rods and ⅜" PL's to be A-36. ⅝"φ and ⅞"φ bolts shall conform to ASTM A-307.

¾"φ Expansion Anchors shall be of a type approved by the Engineer. They shall be a minimum of 3 inches in length and capable of a pull-out test of 12,000 pounds.

Concrete in Brackets to be Class "A".

Chamfer exposed concrete edges ¾ inch.

See Br. Stds. BR1 & BR2 for Guard Rail notes and details.

Alternate Precast Brackets may be used. If the Precast Bracket is used, details of the proposed Bracket shall be submitted to the Engineer for approval.

*As an alternate, an aluminum plate may be used. If used, it shall be aluminum alloy 6061-T6 conforming to ASTM B-209. Plates shall be free of sharp edges and irregularities.

Standard drawings reqd.: BR1, BR2, C1.

PAY ITEMS

BARRIER RAILING, TYPE "X" BRACKET "C" =	2	EACH
BARRIER RAILING, TYPE "X" BRACKET "A" =	8	EACH

BARRIER RAILING, TYPE "X" DETAILS

INDIANA STATE HIGHWAY COMMISSION

SCALE:- As Noted DATE:- 2-28-80

RECOMMENDED FOR APPROVAL: [signature]

DRAWING:- D6 OF 7 SHEET:- 9 OF 25

PROJECT:- I-FRI-85-2(104)68

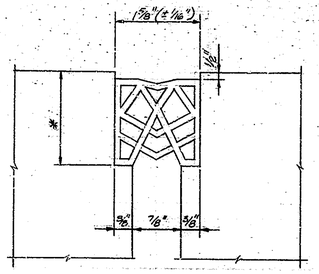
CONTRACT NO. B-12648

BRIDGE FILE:- I-65-68-4699 B; 7B

DESIGNED RDS 9-17-72	CK'D WFG 9-17-72	
DRAWN	CK'D	
TRACED	CK'D	

Rev. 1-31-74 Railing Height Rev. 6-14-74 Anchor Rods Deleted Rev. 4-1-77 Material Notes

Rev. 1-31-74 RWB/rwhag
6-14-74 RWB/rwhag/WFG

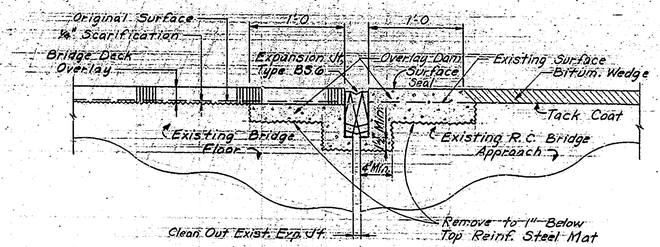


Note: Clean out and rebuild existing curb joints to accommodate joint seal. Such work to be included in cost of Expansion Joint, Type BS 6.

* To be determined in field. See the Special Provisions.

EXPANSION JOINT TYPE BS 6

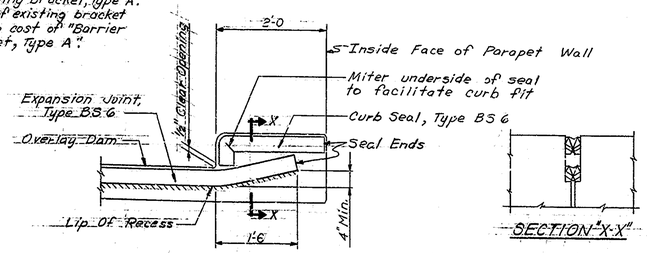
Not To Scale



DETAIL "A"

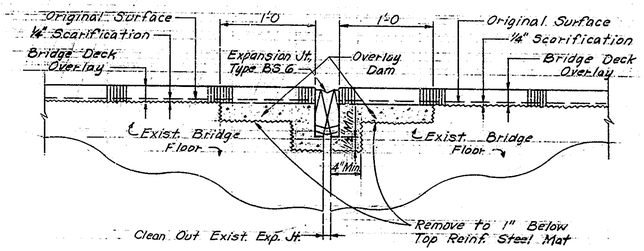
Scale: 1½"=1'-0

Note:
Construction of BS Joint thru curb will require removal and replacement of Barrier "X" Railing Bracket, Type A." Cost of removal of existing bracket to be included in cost of "Barrier X Railing Bracket, Type A".



TYPICAL BS JOINT INSTALLATION AT CURBS

Not To Scale



DETAIL "B"

Scale: 1½"=1'-0

DESIGNED PES CK'D TEM
DRAWN PES CK'D TEM
TRACED CK'D

MISCELLANEOUS DETAILS

INDIANA STATE HIGHWAY COMMISSION

SCALE:- AS NOTED DATE:- 2-28-80

Harry C. Cantrell

DRAWING D7 OF 7 SHEET:- 10 OF 25

PROJECT:- I-FRI-65-2(104)68

CONTRACT NO. B-12648

BRIDGE FILE:- I-65-68-4699 B & JB

HARRY C. CANTRELL 12229 STATE OF INDIANA REGISTERED PROFESSIONAL ENGINEER

TP118

ESTIMATE OF QUANTITIES

STRUCTURE PAY ITEMS

CODE NO.	DESCRIPTION	UNIT	FUNDING 90/10	FUNDING 75/25	TOTAL QUANTITY
51002	CONCRETE CLASS C IN SUPERSTRUCTURE	CYS.			
51001	CONCRETE, CLASS A IN SUPERSTRUCTURE	CYS.		✓	27.0
51003	CONCRETE, CLASS A IN SUBSTRUCTURE	CYS.			
51010	CONCRETE, CLASS B ABOVE FOOTINGS	CYS.			
51015	CONCRETE, CLASS B IN FOOTINGS	CYS.			
51275	SPECIAL CLASS A CONCRETE	SPE			
51045	CONCRETE STRUCTURAL MEMBERS	LSUM			
51030	REINFORCING STEEL	LBS.		✓	21.15
51092	EPOXY COATED REINFORCING STEEL	LBS			
51035	STRUCTURAL STEEL	LBS.			
51038	STRUCTURAL STEEL	LSUM			
51090	BRONZE PLATES	LBS.			
51070	ANCHOR PLATES (MK-AP 1)	EACH			
51075	ANCHOR PLATES (MK-AP 2)	EACH			
51080	ANCHOR PLATES (MK-AP 3)	EACH			
51085	ANCHOR PLATES (MK-AP 4)	EACH			
51112	ANCHOR BOLTS	EACH			
51068	TIE DOWN ASSEMBLY MK-UA	EACH			
51095	CAST IRON, DRAIN PIPE, 4 INCH	LBS.			
51100	CAST IRON, DRAIN PIPE, 5 INCH	LBS.			
51105	CAST IRON, DRAIN PIPE, 8 INCH	LBS.			
51110	CAST IRON, GRATES, BASINS AND FITTINGS	LBS.			
51134	REMOVAL OF PRESENT RAILING	LFT.			
51138	RAILING RESET	LFT.			
51115	RAILING (TYPE 5 OR C)	LFT.			
51120	RAILING (TYPE 5A OR C1)	LFT.			
51125	RAILING (TYPE 6 OR D)	LFT.			
51130	RAILING (TYPE 7 OR E)	LFT.			
51020	CLASS C, CONCRETE RAILING	CYS.			
51025	CLASS C, CONCRETE RAILING	LFT.			
51131	BARRIER RAILING TYPE X	LFT.			
51215	CLASS X EXCAVATION	CYS.			
51220	WET EXCAVATION	CYS.			
51223	WATERWAY EXCAVATION	CYS.			
51224	WATERWAY EXCAVATION	LSUM			
51225	DRY EXCAVATION	CYS.			
51230	FOUNDATION EXCAVATION (UNCLASSIFIED)	CYS.			
51231	FOUNDATION EXCAVATION (UNCLASSIFIED)	LSUM			
51813	PNEUMATICALLY PLACED MORTAR	SFT.			
51870	REPOINTING MASONRY IN SPRLS.	SFT.			50 ⊙
51814	WELDED STEEL WIRE FABRIC	SFT.			
51859	PAINTING OLD STEEL BRIDGE	LSUM			
	CLEAN AND PAINT STRUCT. STEEL	LSUM			1 ⊙
51881	EXPANSION JOINT, TYPE BS2	LFT.			
51885	EXPANSION JOINT, TYPE BS6	LFT.		✓	272
51887	EXPANSION JOINT, TYPE BS8	LFT.			
51888	EXPANSION JOINT, TYPE BS6	LFT.			
51890	EXPANSION JOINT, TYPE BS11	LFT.			
51925	EXPANSION JOINT, CLASS S-3	LFT.		✓	160
51926	EXPANSION JOINT, CLASS T-S	LFT.			
	BARRIER "X" RAILING BRACKET, TYPE "A"	EACH		✓	8
	BARRIER "X" RAILING BRACKET, TYPE "C"	EACH			2 ⊙

STRUCTURE PAY ITEMS

CODE NO.	DESCRIPTION	UNIT	FUNDING 90/10	FUNDING 75/25	TOTAL QUANTITY
51135	TIMBER PILES FURNISHED, UNTREATED	LFT.			
51140	TIMBER PILES DRIVEN, UNTREATED	LFT.			
51145	TIMBER PILES FURNISHED, TREATED	LFT.			
51150	TIMBER PILES DRIVEN, TREATED	LFT.			
51155	PILE SHELLS FURNISHED AND DRIVEN (12 INCH)	LFT.			
51160	PILE SHELLS FURNISHED AND DRIVEN (14 INCH)	LFT.			
51185	STEEL H PILES FURNISHED AND DRIVEN (8 BP 36)	LFT.			
51190	STEEL H PILES FURNISHED AND DRIVEN (10 BP 42)	LFT.			
51195	STEEL H PILES FURNISHED AND DRIVEN (12 BP 53)	LFT.			
51210	PILE ENCASEMENT (CONCRETE)	LFT.			
51328	REMOVAL OF PRESENT STRUCTURE (PORTIONS)	LSUM		✓	1
51330	REMOVAL OF PRESENT STRUCTURE	LSUM			
51335	TEMPORARY BRIDGE AND APPROACHES	LSUM			
	REMOVAL OF SLOPEWALL	SYS.			60 ⊙
51366	CONCRETE SLOPEWALL 5 INCH	SYS.			60 ⊙
51385	SLOPEWALL	SYS.			
51370	RIPRAP	SYS.			
51375	REVETMENT RIPRAP	TON			
51371	HANDLAID RIPRAP 12 INCH	SYS.			
51372	DUMPED RIPRAP	TON			
51376	PLASTIC FILTER CLOTH	SYS.			
51106	DECK DRAINS	EACH			
51395	STEEL DRAIN PIPE (6 INCH)	LSUM			
51400	STEEL DRAIN PIPE (8 INCH)	LSUM			
51092	STEEL PIPE CONDUIT (2 INCH)	LFT.			
51866	RIVETS REMOVED	EACH			
51864	FIELD DRILLED HOLES	EACH			
51867	STRUCTURAL STEEL CUTTING	SIN			
51863	FIELD DRILLED HOLES IN CONCRETE	EACH			
	REMOVAL OF BITUMINOUS SURFACE	SYS.		✓	6023
	OVERLAY DAMS	SFT.		✓	510
51826	SURFACE SEAL	SFT.		✓	38,774
51827	BRIDGE DECK MEMBRANE	LSUM			
51842	BRIDGE DECK OVERLAY	SYS.		✓	6023
51845	BRIDGE DECK SURFACE	SYS.			
		CYS.			
51843	BRIDGE DECK PATCHING	SFT.		✓	7056
51833	CONCRETE SCARIFYING	SYS.		✓	7690
51840	ADDITIONAL CONCRETE SCARIFYING	SYS.		✓	1430
51837	BLASTING AND CLEANING	SYS.		✓	6023
51836	FINISHING AND CURING	SYS.		✓	6023

APPROACH PAY ITEMS

CODE NO.	DESCRIPTION	UNIT	FUNDING 90/10	FUNDING 75/25	TOTAL QUANTITY
02020	UNCLASSIFIED EXCAVATION	CYS.			
52240	COMMON EXCAVATION	CYS.			
52245	BORROW	CYS.			
52250	B BORROW	CYS.			20 ⊙
52255	B BORROW FOR STRUCTURE BACKFILL	CYS.			
52303	REMOVAL OF PAVEMENT	SYS.			
02235	BREAKING PAVEMENT	SYS.			
52490	TERMINAL JOINT	LFT.			
52495	CONTRACTION JOINT, TYPE D-1	LFT.			
52280	CONCRETE PAVEMENT REINFORCED (7 INCH)	SYS.			
52285	CONCRETE PAVEMENT REINFORCED (8 INCH)	SYS.			
52290	CONCRETE PAVEMENT REINFORCED (9 INCH)	SYS.			
52300	CONCRETE PAVEMENT REINFORCED (10 INCH)	SYS.			
06070	CONCRETE SIDEWALK	SYS.			
52305	TYPE P COMPACTED AGGREGATE FOR BASE (SIZE NO. 53)	TON			
52600	COVER AGGREGATE	TON			
52606	COVER AGGREGATE (SIZE NO. 12)	TON			
52605	AGGREGATE FOR SHOULDER DRAINS	TON			
52610	AGGREGATE FOR UNDER DRAINS	CYS.			
02308	TYPE O COMPACTED AGGREGATE FOR BASE (SIZE NO. 53)	TON			
52310	SUBBASE	CYS.			
52315	BITUMINOUS STABILIZED SUBBASE TYPE I, II, OR III	TON			
52320	BITUMINOUS STABILIZED SUBBASE	TON			
52445	BITUMINOUS BASE	TON			
04260	BITUMINOUS BASE (SIZE NO 50)	TON			
52451	BITUMINOUS BINDER	TON			
52450	BITUMINOUS SURFACE	TON			
52456	BITUMINOUS MATERIAL FOR TACK COAT	SYS.		✓	2535
52461	BITUMINOUS MATERIAL FOR PRIME COAT	SYS.			
04348	SEAL COAT TYPE 2	SYS.			
52470	BITUMINOUS MIXTURE FOR APPROACHES *	TON		✓	463
52475	BITUMINOUS MIXTURE FOR SHOULDER	TON			
52480	BITUMINOUS MATERIAL, APPLIED	TON			
52500	GUARD RAIL,	LFT.			
52505	GUARD RAIL, TYPE B	LFT.			
52510	GUARD RAIL, TYPE C	LFT.			
52515	GUARD RAIL, TYPE D	LFT.			
52520	GUARD RAIL, TYPE E	LFT.			
52525	GUARD RAIL, TYPE F	LFT.			
52530	GUARD RAIL, CLASS GA	LFT.	✓	364	~~418~~
52531	GUARD RAIL, TYPE H	LFT.			
06035	RESET GUARD RAIL CLASS GA	LFT.	✓	660	~~520~~
52535	REMOVAL OF GUARD RAIL	LFT.	✓	0	~~80~~
52380	SODDING	SYS.			
52385	MULCHED SEEDING "R"	SYS.			
52388	SEED MIXTURE "R"	LBS.			
52397	SEED MIXTURE "TR"	LBS.			
1. 52400	MULCHING MATERIAL	TON			
2. 52405	FERTILIZER	TON			
52410	WATER	M.G.			
3. 52415	AGRICULTURAL LIMESTONE	TON			
52398	SEED MIXTURE "CV"	LBS.			
52401	MULCHING MATERIAL (WOOD CELLULOSE FIBER)	TON			
	GUARD RAIL END TREATMENT	EACH	✓	0	~~2~~
52540	MAINTAINING TRAFFIC	LSUM	✓		1
52370	CLEARING RIGHT-OF-WAY	LSUM			
52435	BREAKAWAY CABLE TERMINAL TYPE "A"	EACH			

APPROACH PAY ITEMS

CODE NO.	DESCRIPTION	UNIT	FUNDING 90/10	FUNDING 75/25	TOTAL QUANTITY
07025	PIPE: GR. A (0.064" FBCCS) 12"	LFT.			
07075	PIPE: GR. A (0.064" FBCCS) 15"	LFT.			
07125	PIPE: GR. A (0.064" FBCCS) 18"	LFT.			
07175	PIPE: GR. A (0.064" FBCCS) 21"	LFT.			
07225	PIPE: GR. A (0.064" FBCCS) 30"	LFT.			
07275	PIPE: GR. A (0.064" FBCCS) 36"	LFT.			
07325	PIPE: GR. A (0.064" FBCCS) 42"	LFT.			
10000	PIPE: GR. D (0.064" CS) 12"	LFT.			
10025	PIPE: GR. D (0.064" CS) 15"	LFT.			
10050	PIPE: GR. D (0.064" CS) 18"	LFT.			
10075	PIPE: GR. D (0.064" CS) 24"	LFT.			
10100	PIPE: GR. D (0.064" CS) 30"	LFT.			
10125	PIPE: GR. D (0.064" CS) 36"	LFT.			
10150	PIPE: GR. D (0.064" CS) 42"	LFT.			
34000	PIPE: 0.052" FBC PERF. CS 6"	LFT.			
29000	PIPE: 0.064" FBCCS 12"	LFT.			
52375	CONCRETE CLASS A IN STRUCTURE	CYS.			
52376	CONCRETE CLASS C IN STRUCTURE	CYS.			
46000	PIPE END SECTION 12"	EACH			
46005	PIPE END SECTION 15"	EACH			
46010	PIPE END SECTION 18"	EACH			
46015	PIPE END SECTION 21"	EACH			
46020	PIPE END SECTION 24"	EACH			
46025	PIPE END SECTION 27"	EACH			
46030	PIPE END SECTION 30"	EACH			
46035	PIPE END SECTION 33"	EACH			
46040	PIPE END SECTION 39"	EACH			
45090	INLET, TYPE A-1	EACH			
45095	INLET, TYPE L-6	EACH			
45030	INLET, TYPE E-7	EACH			
45070	INLET, TYPE P-12A	EACH			
06335	PAVED SIDE DITCH TYPE A	LFT.			
06340	PAVED SIDE DITCH TYPE B	LFT.			
06345	PAVED SIDE DITCH TYPE C	LFT.			
06350	PAVED SIDE DITCH TYPE D	LFT.			
06355	PAVED SIDE DITCH TYPE E	LFT.			
06360	PAVED SIDE DITCH TYPE F	LFT.			
06365	PAVED SIDE DITCH TYPE G	LFT.			
52831	DRILLED HOLES FOR MUDJACKING	EACH			
52830	MATERIAL FOR MUDJACKING	CYS.			
	CASTINGS ADJUSTED TO GRADE	EACH	✓		4

APPROACH PAY ITEMS

CODE NO.	DESCRIPTION	UNIT	FUNDING 90/10	FUNDING 75/25	TOTAL QUANTITY
06040	47" FENCE, F. FIELD	LFT.			
06045	48" FENCE, CHAIN LINK	LFT.			
52340	CONSTRUCTION SIGNS (TYPE A)	EACH		✓	20
52345	CONSTRUCTION SIGNS (TYPE B)	EACH			
52350	STANDARD BARRICADES (TYPE III)	EACH			
06650	STOP SIGN, TYPE R-1A	EACH			
06652	DO NOT PASS SIGN, TYPE R-11-A	EACH			
06655	YIELD SIGN, TYPE R-301	EACH			
06657	PASS WITH CARE SIGN, TYPE R-12A	EACH			
06650	CURVE SIGN, TYPE W-2AR	EACH			
06665	CURVE SIGN, TYPE W-2AL	EACH			
06670	REVERSE CURVE SIGN, TYPE W-4AR	EACH			
06675	REVERSE CURVE SIGN, TYPE W-4AL	EACH			
06680	LARGE ARROW SIGN, TYPE W-11A	EACH			
06685	STOP AHEAD SIGN, TYPE W-13A	EACH			
06725	DELINEATOR WITH POST, TYPE D-1 3 INCH	EACH			
06740	DELINEATOR WITH POST, TYPE D-2 3 INCH	EACH			
06770	DELINEATOR POST	EACH			
06771	FLEXIBLE DELINEATOR POST	EACH			
52366	TEMPORARY PAVEMENT MARKING TAPE	LFT.		✓	6761
52367	TEMPORARY PAVEMENT MARKING PAINT	LFT.			
52360	RIGHT-OF-WAY MARKERS	EACH			
06590	MONUMENT, TYPE A	EACH			
06595	MONUMENT, TYPE B	EACH			
06510	MONUMENT, TYPE C	EACH			
06515	MONUMENT, TYPE D	EACH			
52821	FLASHING ARROW SIGN	EACH		✓	2
06713	LINE, SOLID, WHITE, 4"	LFT.		✓	3122
06714	LINE, SOLID, YELLOW, 4"	LFT.		✓	3122
06702	THERMOPLASTIC LINE, SKIP WHITE, 5"	LFT.		✓	992
06716	REMOVAL OF LINE, SOLID, WHITE, 4"	LFT.		✓	3122
06717	REMOVAL OF LINE, SOLID, YELLOW, 4"	LFT.		✓	743
06718	REMOVAL OF LINE, SKIP, WHITE, 4"	LFT.			
52535	TEMPORARY CONCRETE BARRIER	LFT.		✓	2880
52819	TEMPORARY CROSSOVER TYPE "B"	EACH			
	REMOVAL OF THERMOPLASTIC LINE, SKIP, WHITE, 5"	LFT.		✓	362

1. INCLUDES ——— TONS FOR SEED MIXTURE "R"
2. INCLUDES ——— TONS FOR SEED MIXTURE "D"
3. INCLUDES ——— TONS FOR SEED MIXTURE "R"

* FOR BREAKDOWN, SEE DWG. D2

⊙ INDICATES 100% STATE FUNDS

REVISIONS	
DATE	ITEM
Rev. 6-27-80	52530, 06035, 52535, Guard Rail End Treatment

SUMMARIZED T.E.M. C'K'D PEB

TRACED T.E.M. C'K'D PEB

NOVEMBER, 1978

BRIDGE ESTIMATE OF QUANTITIES

INDIANA STATE HIGHWAY COMMISSION

DATE 2-28-80

Roy C Cartwell

PROJECT: I-FRI-65-2(104)68

CONTRACT NO: B-12648

BRIDGE FILE: I-65-68-4699 B & JB

SHEET 11 OF 25

END STR I-65-68-4696

TP 104