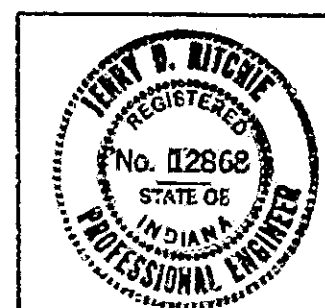

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NOTE: WHEREVER "INDIANA STATE HIGHWAY COMMISSION" APPEARS IN THESE PLANS
IT SHALL BE INTERPRETED AS "INDIANA DEPARTMENT OF HIGHWAYS."

TRAFFIC DATA		S.R.101
A.D.T. (1978)		900 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		

PLANS PREPARED BY:
UNITED CONSULTING ENGINEERS INC.
INDIANAPOLIS INDIANA
CERTIFIED Jerry D. Bitch DATE 2-21-86

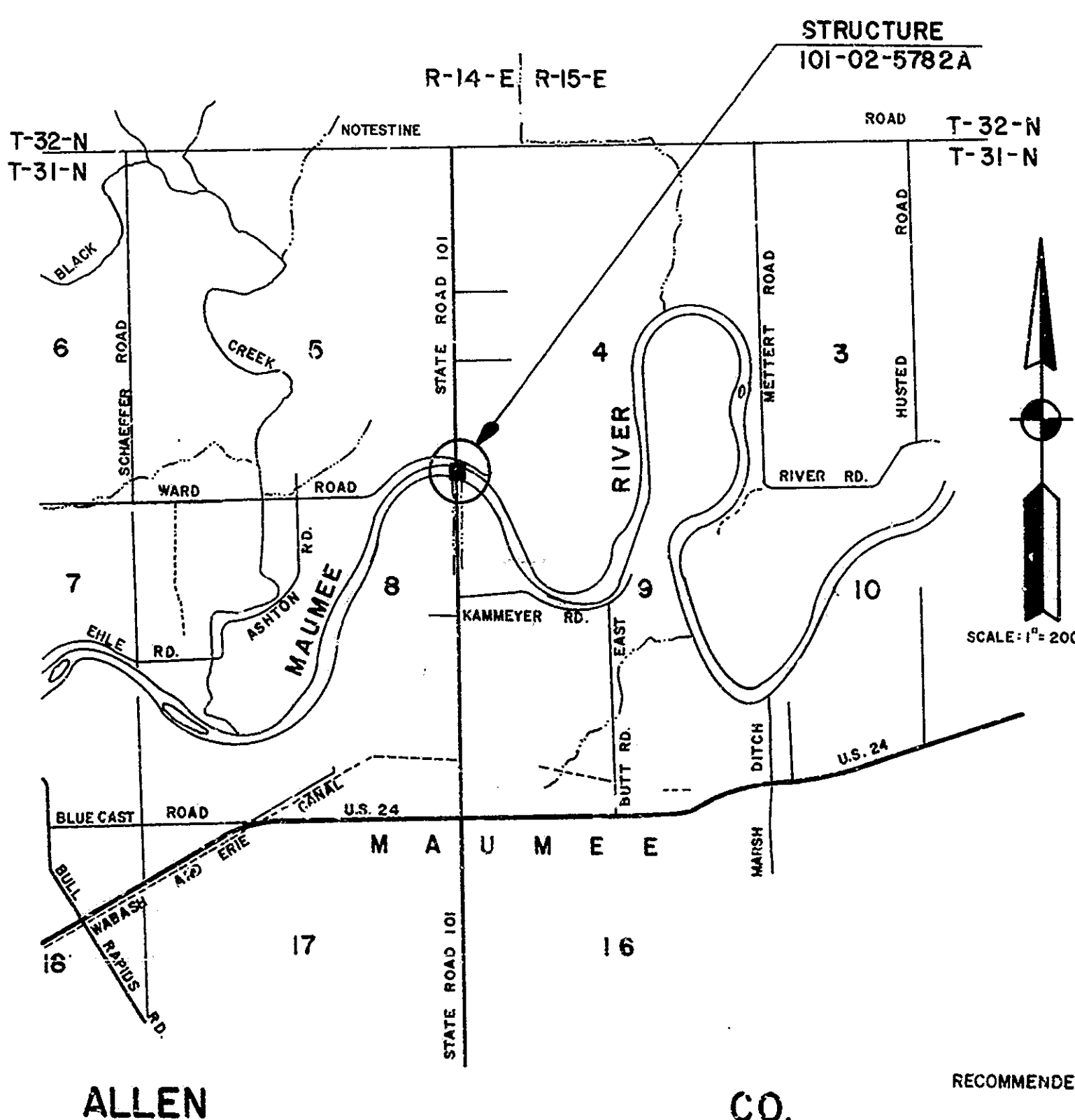


**INDIANA
DEPARTMENT OF
HIGHWAYS**

BRIDGE PLANS
FOR SPANS OVER 20 FEET
ON
STATE ROAD NO. 101
PROJECT NO. SR-5502(II)

DECK RECONSTRUCTION AND OVERLAY ON STRUCTURE 101-02-5782A,
CARRYING STATE ROAD 101 OVER MAUMEE RIVER, IN SECTIONS 4,5,8 & 9,
T-31-N, R-14-E, IN ALLEN COUNTY, INDIANA.

BRIDGE	LENGTH:0.082	MI.
ROADWAY	LENGTH:	MI.
TOTAL	LENGTH:	MI.
MAX.	GRADE :	%



BRIDGES OVER 20' SPAN					
FEDERAL REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	SR-5502(III)	198	I	25

INDEX CONTINUED					
DRAWINGS					
SHEET NO.	SHEET DESIGNATION	SUBJECT	C.N.S.A. DATE	ADOPTED REV./DATE	
	BRIDGE STD. BR1	ALUMINUM BRIDGE RAILING			
	BRIDGE STD. BR2	ALUMINUM BRIDGE RAILING DETAILS			
	BRIDGE STD. BR3	STEEL BRIDGE RAILING			
12	BRIDGE STD. BR4	STEEL BRIDGE RAILING DETAILS			R-12-7-85
	BRIDGE STD. BR5	RAILING CONNECTION DETAILS			
	BRIDGE STD. BR6	RAILING CONNECTION DETAILS			
13	BRIDGE STD. C1	MISCELLANEOUS DETAILS	12-21-81		R12-07-81
	BRIDGE STD. C2	MISCELLANEOUS DETAILS			
14	BRIDGE STD. C3	MISCELLANEOUS DETAILS	12-21-81		R12-07-81
	BRIDGE STD. C4	MISCELLANEOUS DETAILS			
	BRIDGE STD. D	CASTING DETAILS ROADWAY DRAINS			
	BRIDGE STD. D1	ADJUSTING FRAME DETAILS FOR ROADWAY DRAINS			
	BRIDGE STD.				
	BRIDGE STD. PB	PRESTRESSED CONCRETE TYPE I-BEAMS			
	BRIDGE STD. PB	PRESTRESSED CONCRETE TYPE I-BEAMS			
	BRIDGE STD. PB6	PRESTRESSED BOX BEAMS			
	BRIDGE STD. PB	PRESTRESSED COMPOSITE BOX BEAMS W/D			
	BRIDGE STD. PB	PRESTRESSED COMPOSITE BOX BEAMS WIDE			
	BRIDGE STD. PB10	TOLERANCES FOR FABRICATION OF PRESTRESSED BEAMS			
	BRIDGE STD. PB11	ELASTOMERIC BEARING PAD DETAILS			
	BRIDGE STD.				
	BRIDGE STD.				
	BRIDGE STD. R2A	BRIDGE LIGHTING DETAILS			
	BRIDGE STD. R2B	BRIDGE LIGHTING DETAILS			
	BRIDGE STD. S1	MISCELLANEOUS DETAILS			
	BRIDGE STD. SH1	STEEL SHOP DETAILS			
	BRIDGE STD. T SHEET A	STANDARD TEMPORARY BRIDGE			
	BRIDGE STD. T SHEET B	STANDARD TEMPORARY BRIDGE			
	BRIDGE STD.				
	BRIDGE STD.				
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	BRIDGE STD.				
	BRIDGE STD.				
	ROAD STD. SHEET A	STANDARD PAVEMENT JOINTS			
	ROAD STD. SHEET B	STANDARD PAVEMENT JOINTS			
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS			
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS			
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS			
15	ROAD STD. SHEET MA	MISCELLANEOUS STANDARDS	*		R 9-04-84
16	ROAD STD. SHEET MB	MISCELLANEOUS STANDARDS	*		R 9-04-84
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	ROAD STD. SHEET	MISCELLANEOUS STANDARDS			
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS			

* FHWA APPROVAL PENDING

APPROVED 3-17-56
F. Wayne Walters
CHIEF HIGHWAY ENGINEER.

FEDERAL HIGHWAY ADMINISTRATION
DEPARTMENT OF TRANSPORTATION

APPROVED:

DIVISION ADMINISTRATOR

INDIANA DEPARTMENT OF HIGHWAYS
STANDARD SPECIFICATIONS DATED 1985
TO BE USED WITH THESE PLANS.

[illegible][illegible]

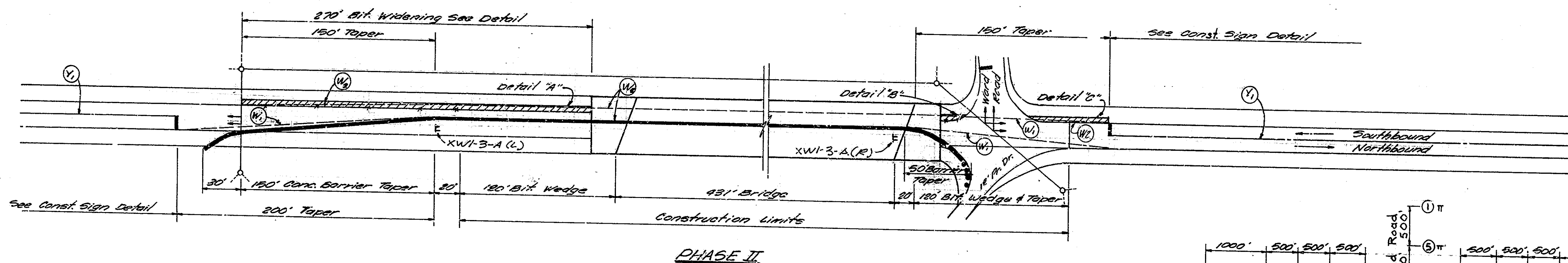
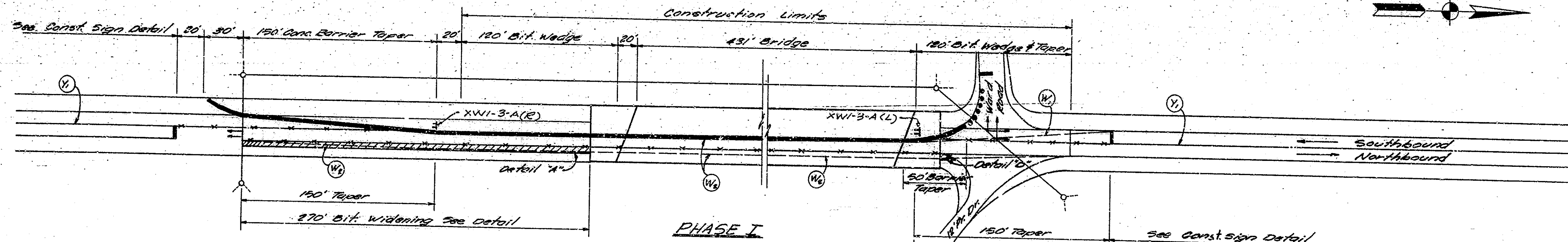
RECOMMENDED FOR APPROVAL

ENGINEER OF BRIDGE PLANS

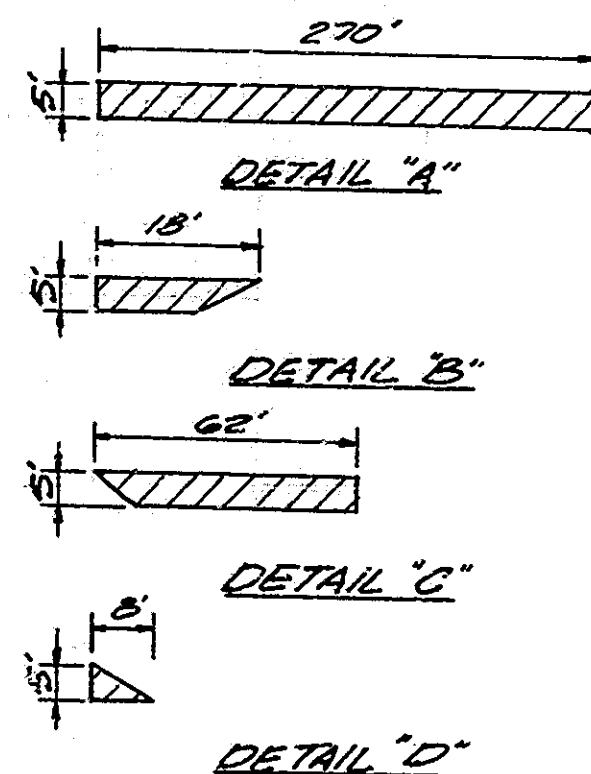
RECOMMENDED FOR APPROVAL *2-28-86*

William B. Bryant

ENGINEER OF BRIDGE DESIGN



BITUMINOUS WIDENING DETAIL NO SCALE

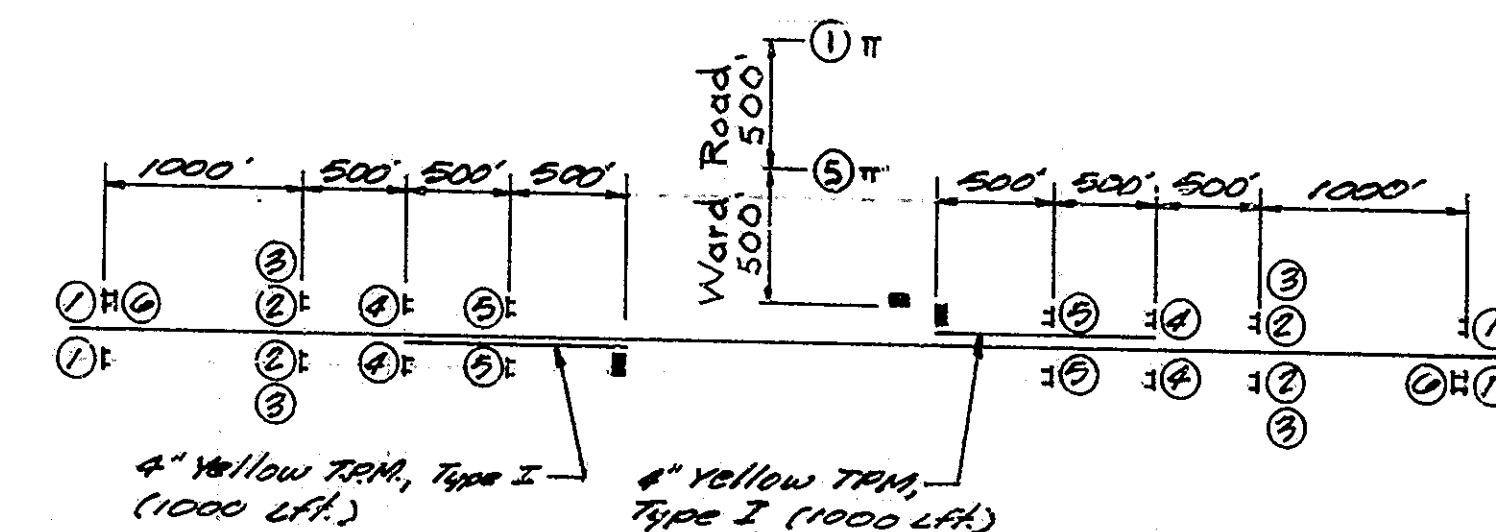


LEGEND

- Temporary Concrete Barrier (820 Lft. req'd.)
- Bituminous Widening (est. qty. = 173 tons)
- Line Removal
- 24" Stop Bar (a line of 4" white lines, Type I, T.R.M.)
- Signal Head
- Drum, or Type II Barricade with Type "C" Burning Light
- Signal Head Pole with Guide Wire
- Temporary Pavement Marking, Type I, 4" white
- Temporary Pavement Marking, Type II, 4" white
- Temporary Pavement Marking, Type I, 4" yellow

TRAFFIC MAINTENANCE PROCEDURE

- PHASE I**
1. Install traffic signals and other work to provide for all traffic on Northbound lane.
 2. Close Southbound lane and channel traffic on Northbound lane in accordance with details.
 3. Complete work on Southbound lane. Place bituminous wedge at North end of bridge by use of flagmen.
- PHASE II**
4. Shift temporary barrier and perform other work to allow all traffic on Southbound lane.
 5. Close Northbound lane and channel traffic on Southbound lane in accordance with the details.
 6. Complete work on Northbound lane. Place bituminous wedge at North end of bridge by flagmen.



LEGEND

- Indicates construction sign with low intensity flashing yellow light (Type A)
- Indicates stop bar for location see detail
- Read Construction Ahead (W20-1)
- One Lane Road Ahead (W20-4)
- Speed Sign (KW13-1-A) - 25 MPH
- Do Not Pass (R4-1-A)
- Signal Ahead (W3-30-A)
- End Construction (820-2)

CONSTRUCTION SIGNS

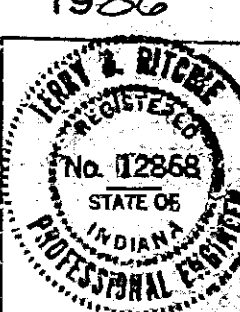
TRAFFIC MAINTENANCE DETAILS

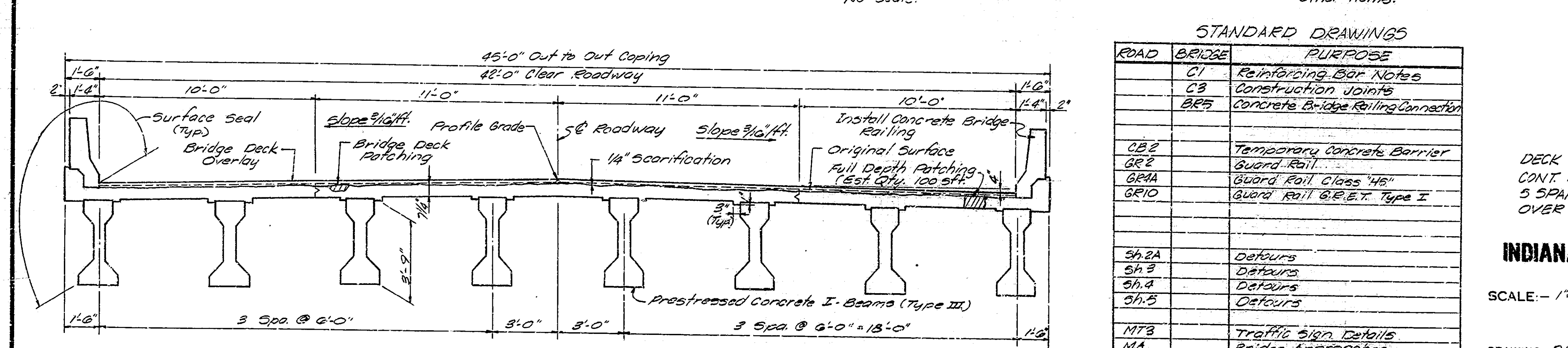
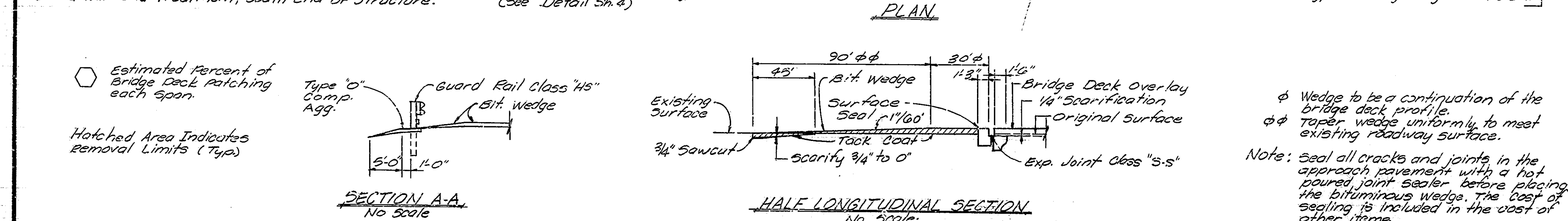
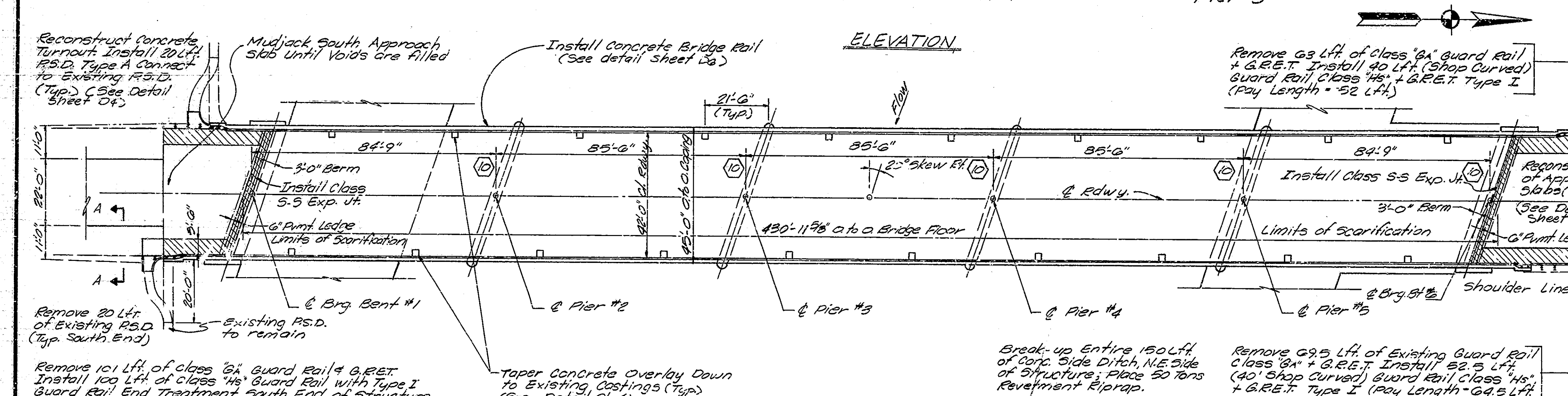
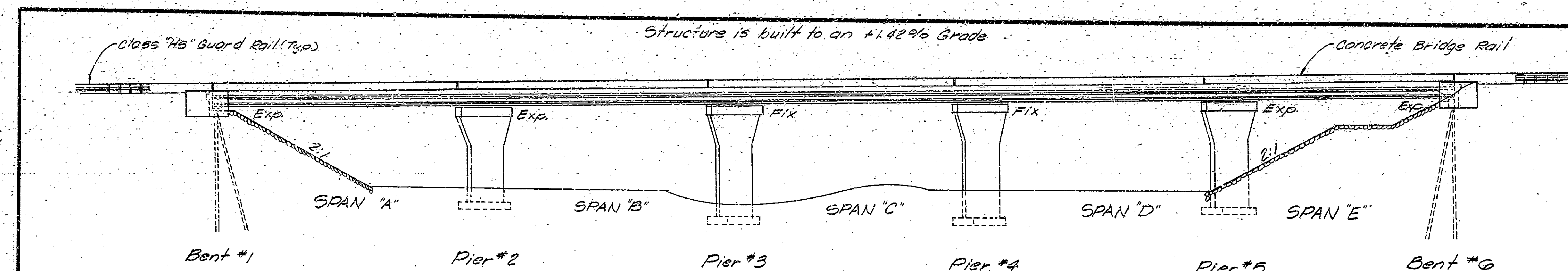
INDIANA DEPARTMENT OF HIGHWAYS

SCALE: 1"=40' Unless Noted DATE: 3-21

1986

DRAWING: OF SHEET: 2 OF 25
PROJECT: 9P-5502(11) STATION: -
BRIDGE CONTRACT NO. 8-16102
BRIDGE FILE: 101-02-5782A





- ### GENERAL NOTES
- Plans for this structure are on file in the Central Office as Bridge File 101-025722 and are available on 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 fit of the new part to the old.
 - The hand chipping and cleaning of deteriorated concrete areas shall be 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 up to scarified surface to be Special Class "A" Concrete bonded with epoxy bonding compound or Modified P.C. Concrete (See the Special Provisions.)
 - Concrete in Reconstr. slab, and mudwalls to be Class "A".
 - All bituminous material required in this contract to be included in the pay item Bituminous Mixture for Approaches (Except Tack Coat to be paid for as a separate item.)
 - The length and quantity of bituminous wedging shown is based on the use of Modified P.C. Overlay (See the Special Provisions.)
 - Reinforcing steel covering shall be 1 1/2" in top and 1" min in bottom of floor slab and 2" in all other parts unless noted.
 - Chamfer exposed edges 1" unless otherwise noted. All faces of concrete railing.
 - Surface seal face and underside of coping, exposed faces of wingwalls and outside face of exterior beam.

- ### MATERIAL NOTES
- BITUMINOUS WEDGE**
110" Syd Bit Surface Type II-B on variable Depth Bit Binder or Base
- BITUMINOUS WIDENING**
990" Syd Bit Base Type 5D
- BRIDGE DECK OVERLAY**
134" Modified Portland Cement Concrete or 2 1/2" Dense Portland Cement Concrete (1 1/2" or 2 1/4" Above Existing plus 1/4" Scarification)

STANDARD DRAWINGS

ROAD	BRIDGE	PURPOSE
	C1	Reinforcing Bar Notes
	C3	Construction Joints
	BR5	Concrete Bridge Railing Connection
CB2		Temporary Concrete Barrier
GR2		Guard Rail
GR4A		Guard Rail Class #45
GR10		Guard Rail G.R.E.T. Type I
SH2A		Detours
SH3		Detours
SH4		Detours
SH5		Detours
MT3		Traffic Sign Details
MA		Bridge Approaches
MB		Raised Side Ditch

GENERAL PLAN

DECK RECONSTRUCT AND OVERLAY
CONT. PRESTRESSED REINF. CONC. I-BEAM BRIDGE
5 SPANS: 2 @ 84'-9", 3 @ 85'-6", 20" SKEW RT, 42'-0" CL. RDWY.
OVER MAUMEE RIVER ON SR 101

INDIANA DEPARTMENT OF HIGHWAYS
ALLEN COUNTY

SCALE: - 1" = 20' Unless Noted DATE: - 2-21-80

Jerry D. Butcher

DRAWING: D1 OF 8 SHEET: 3 OF 25
PROJECT: SR 5502(11) STATION: -
BRIDGE CONTRACT NO. B-16102
BRIDGE FILE: 101-02-5732 A

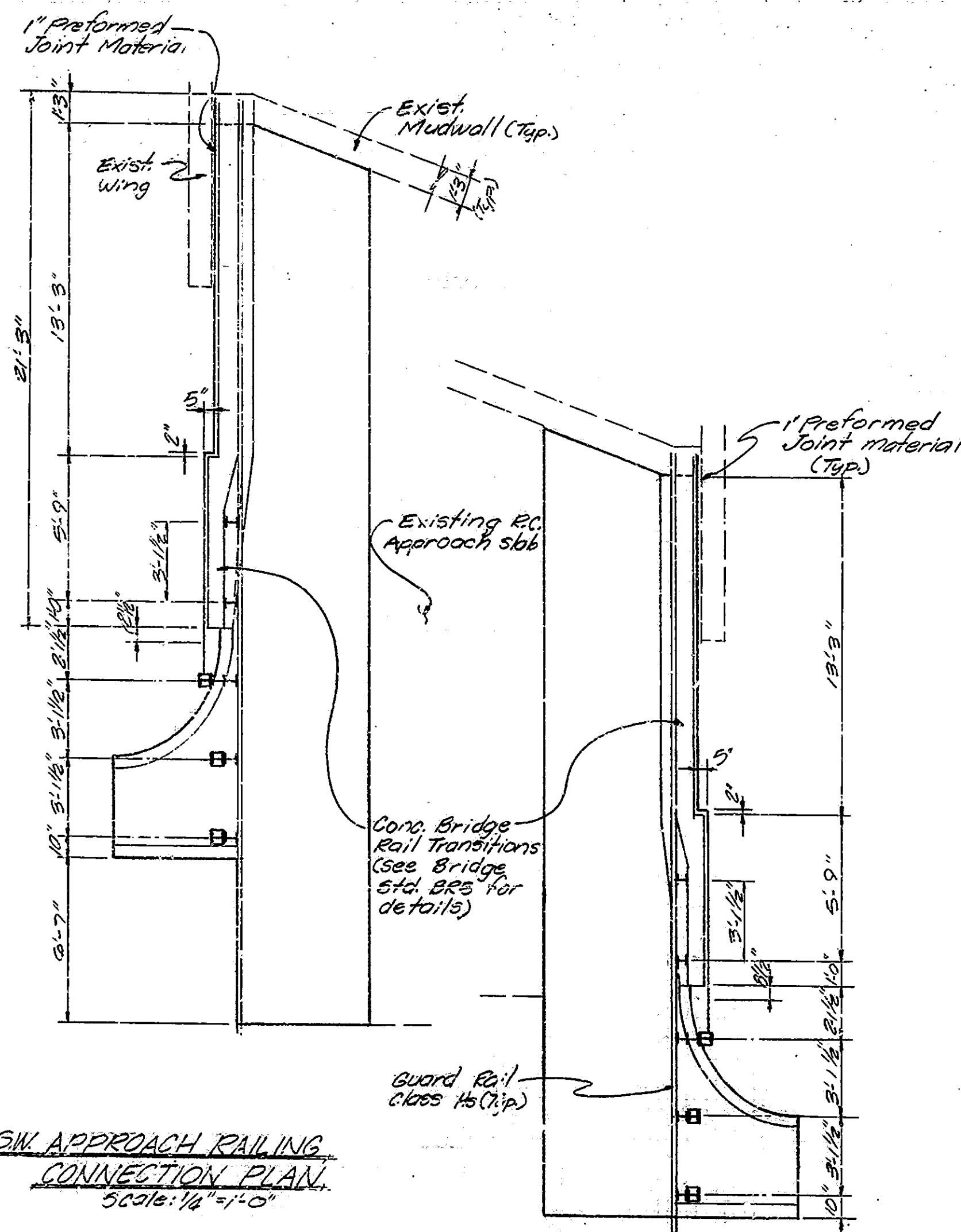
1980

DESIGNED: PDB:CKD:JDR
DRAWN: S. GREGG:CKD:JDR
TRACED: S. GREGG:CKD:JDR

22-2317

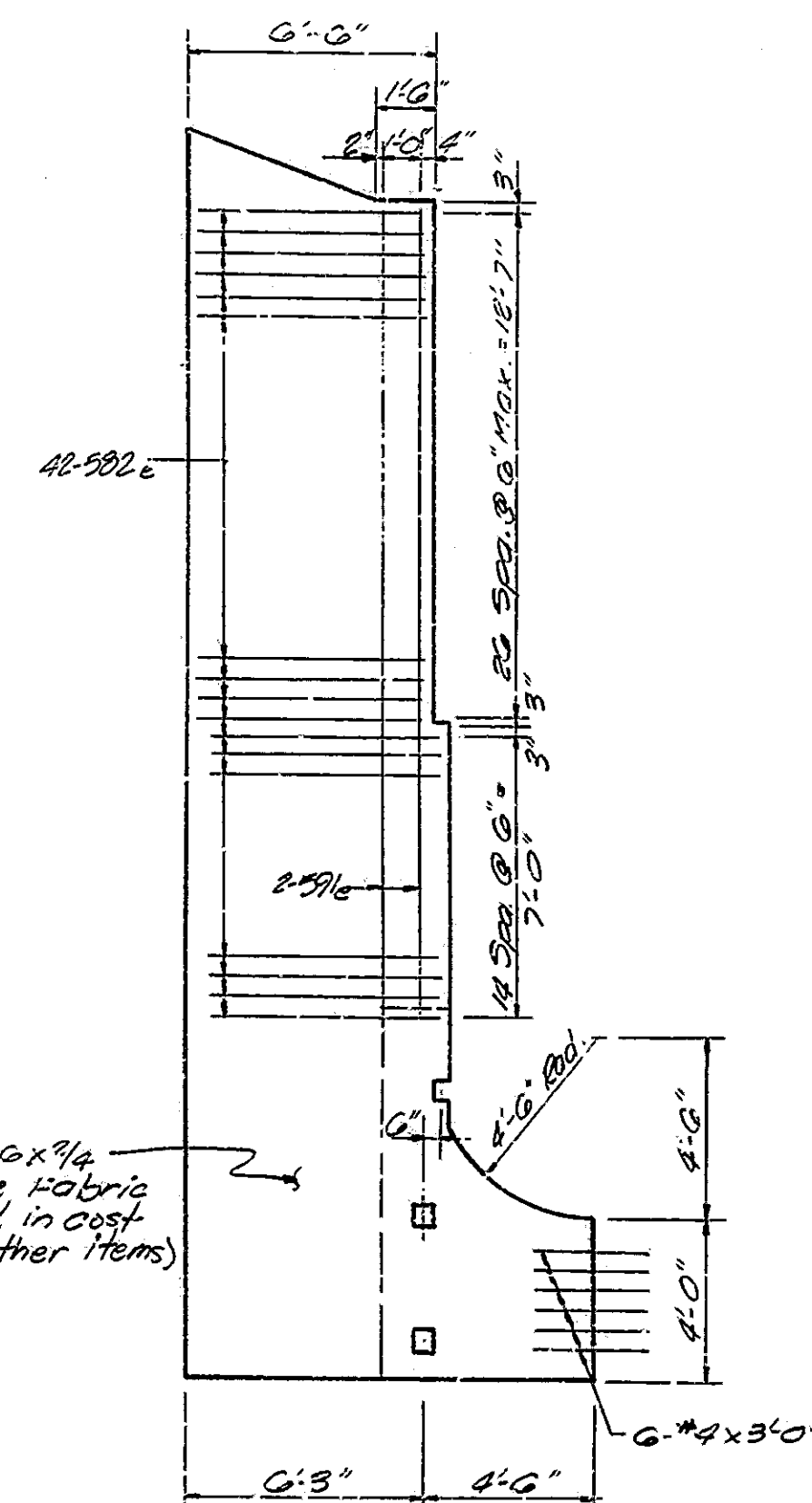
TYPICAL SECTION
Scale: 3/8" = 1'-0"

Reconstructed Approach Slabs
to be built to level of overlay



SW. APPROACH RAILING
CONNECTION PLAN
Scale: 1/4" = 1'-0"

SE APPROACH RAILING
CONNECTION PLAN
500.0' 1/2" = 1'-0"



SE. APPROACH SLAB PLAN:
(showing top steel)
Scale: $\frac{1}{4}'' = 1'-0''$

BILL OF MATERIALS			
SE #5W. R.C. BR APPROACHES			
EPOXY COATED REINFORCING			
5/32" Mark	Nº of Bars	Length	Weight (lbs.)
5/16"	4	20'-0"	
5/8"	84	6'-7"	
3/8"	32	3'-11"	
5/8"	26	3'-9"	
Total	# 5		1090
402c	6	16'-7"	
431c	6	2'-5"	
400c	8	1'-9"	
#4	2	17'-6"	
#6	6	14'-6"	
#4	14	6'-6"	
Total	# 4		223
Total E.C. Steel			1313
REINFORCING-STEEL			
5/32" Mark	Nº of Bars	Length	Weight (lbs.)
5/8"	22	6'-7"	
#5	26	28'-0"	
Total	# 5		910
#4	12	3'-0"	
Total	# 4		24
Total Reinforcing			934
Class 'C' concrete Railings			42.5 LF
Special Integral Curb			286 LF
10" E.C. Pavement			
E.E. Corner			24.6 S/S
S.W. Corner			27.0 S/S
Total			516 S/S

NOTES
See Bridge Standard BE; for Railing Connection Details
See Bridge Standard CI for Reinforcing Bar Notes
See Bridge Standard C3 f.c.: Construction, Joints
See Drawing D4 for Turnout Details, Sections, and Bar
Bending Details.
See Road Standard MA for Additional Detail
Concrete Bridge Transitions to be paid as class C, concrete
Railing in LK

SOUTH R.C. BRIDGE APPROACH DETAILS
INDIANA DEPARTMENT OF HIGHWAYS

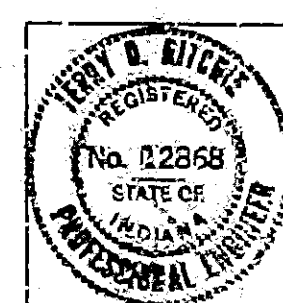
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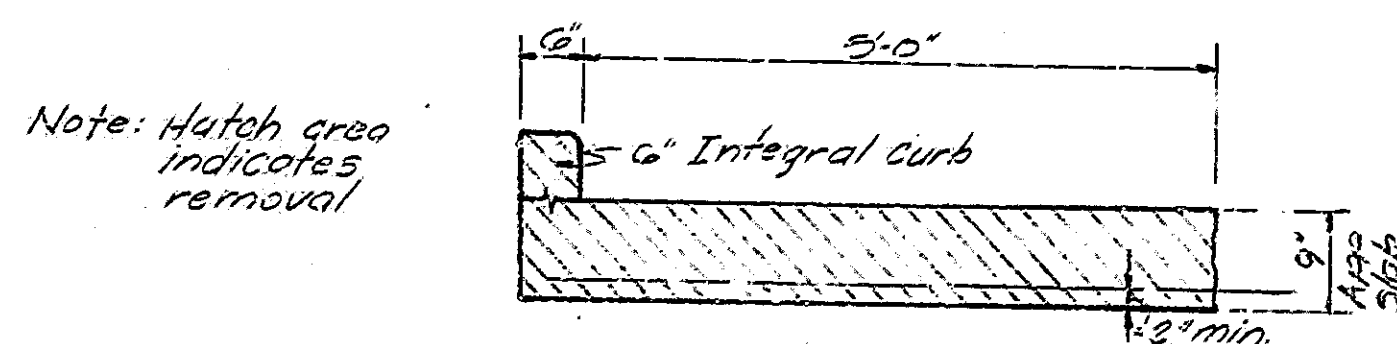
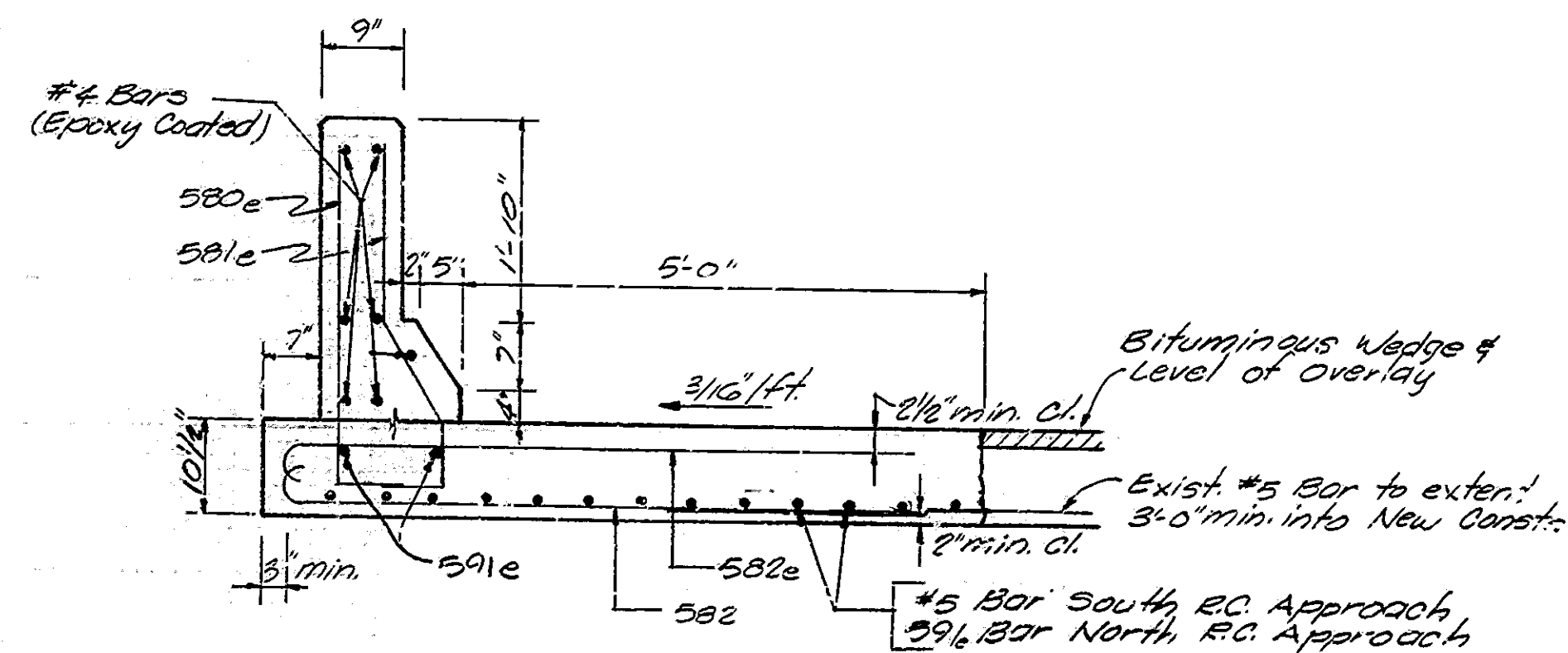
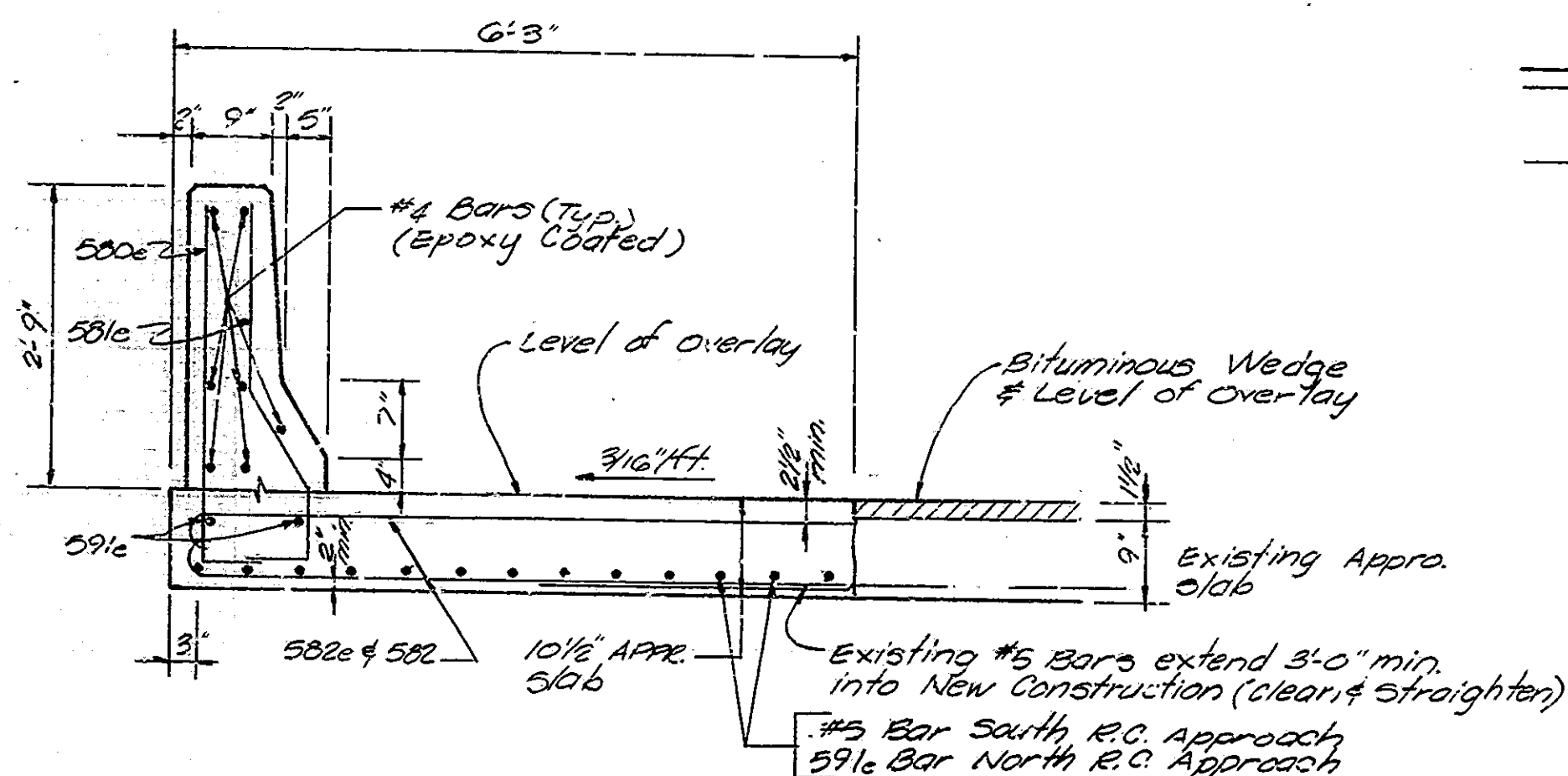
DATE:- 2-21

DATE: 2-21
Jerry D. Ritchie

1936

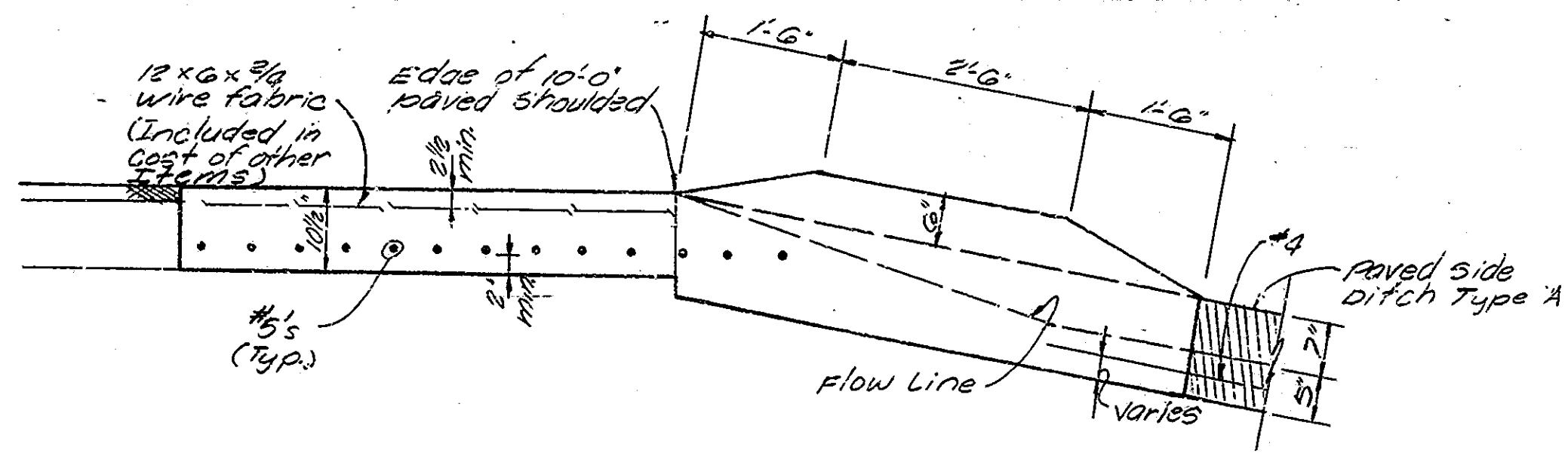
DRAWING:- *D₂* OF *8* SHEET:- *4* OF *25*
PROJECT:- *SR-5502(11)* STATION:-
BRIDGE CONTRACT NO. *B-16102*
BRIDGE FILE:- *101-02-5782A*



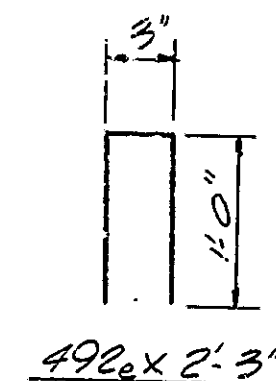
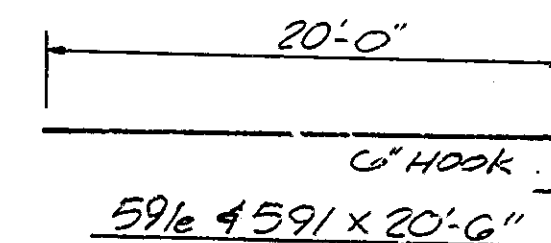


Note: Existing #5 Bars to be cut so as to extend 3'-0" min. into New Construction (clean & straighten)

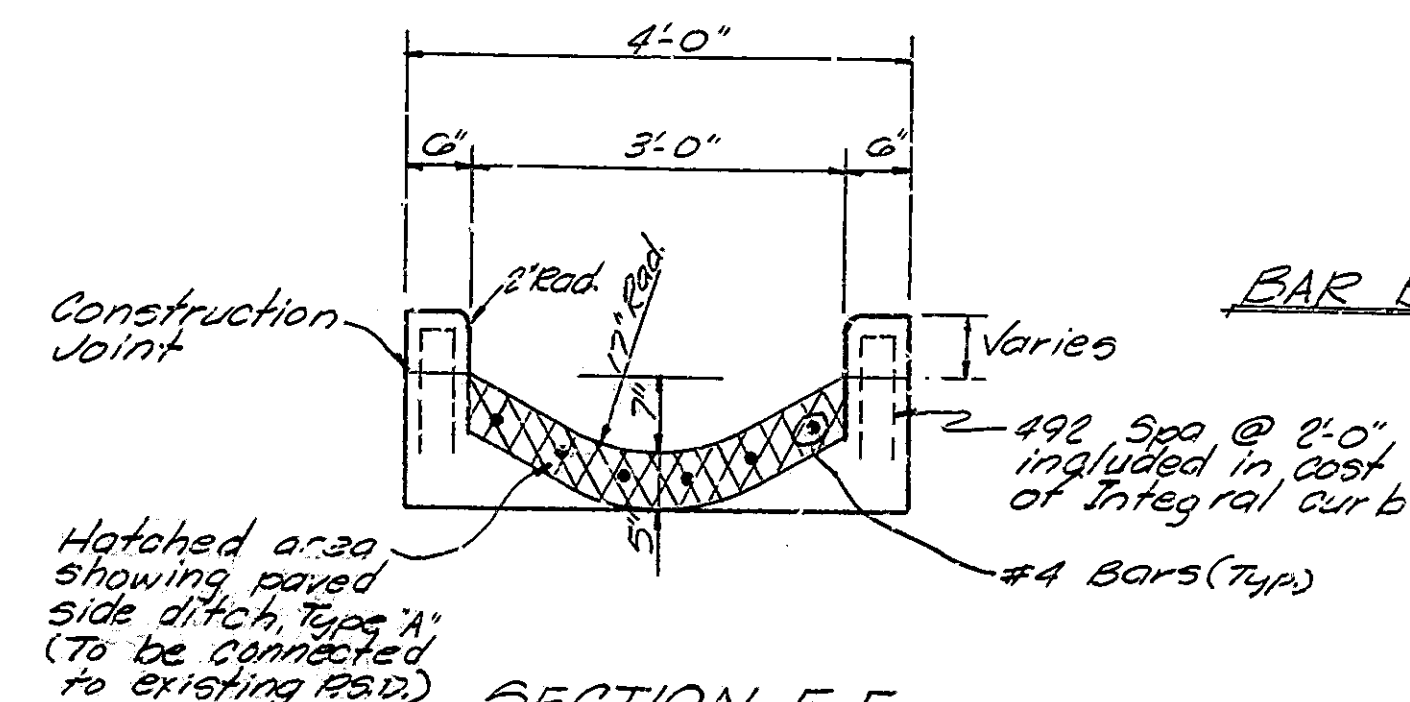
SECTION SHOWING APPR. SLAB REMOVAL
Scale: 3/4" = 1'-0"



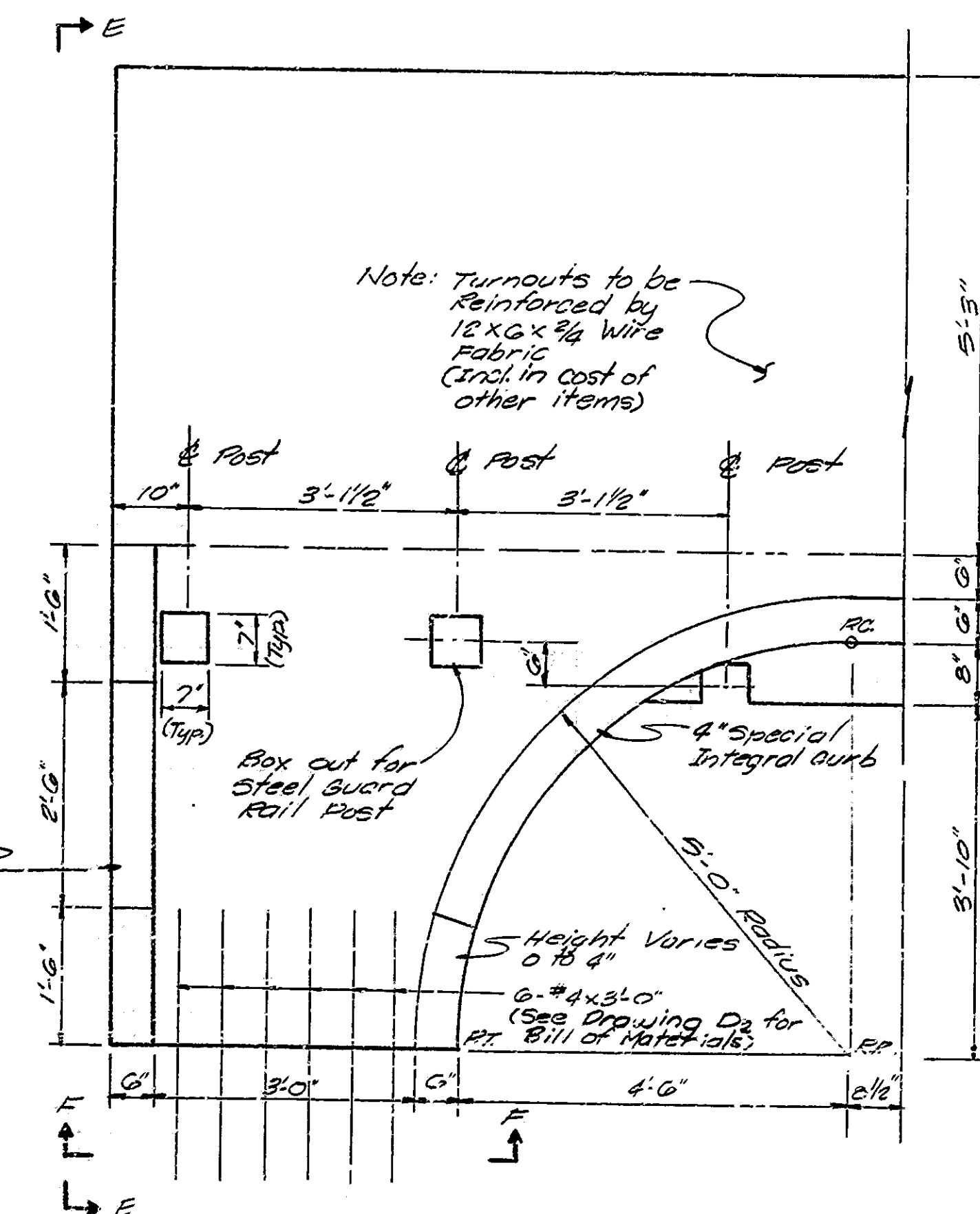
SECTION F-F
Scale: 3/4" = 1'-0"
(South Approach Slab)



BAR BENDING DETAILS



NOTES
See Br. Std. C-107 for Reinforcing Bar Notes
See Rd. Std. MA for P.S.D. Details
See Drawings D₁ & D₂ for reconstruction of Approach Slab Details
See Br. Std. B-25 for Bridge Railing Connection Details



TURNOUT DETAILS AND SECTIONS
INDIANA DEPARTMENT OF HIGHWAYS

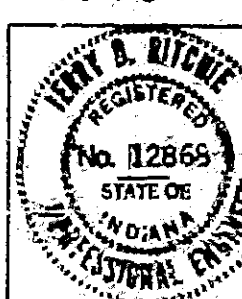
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DATE: 2-21

1980

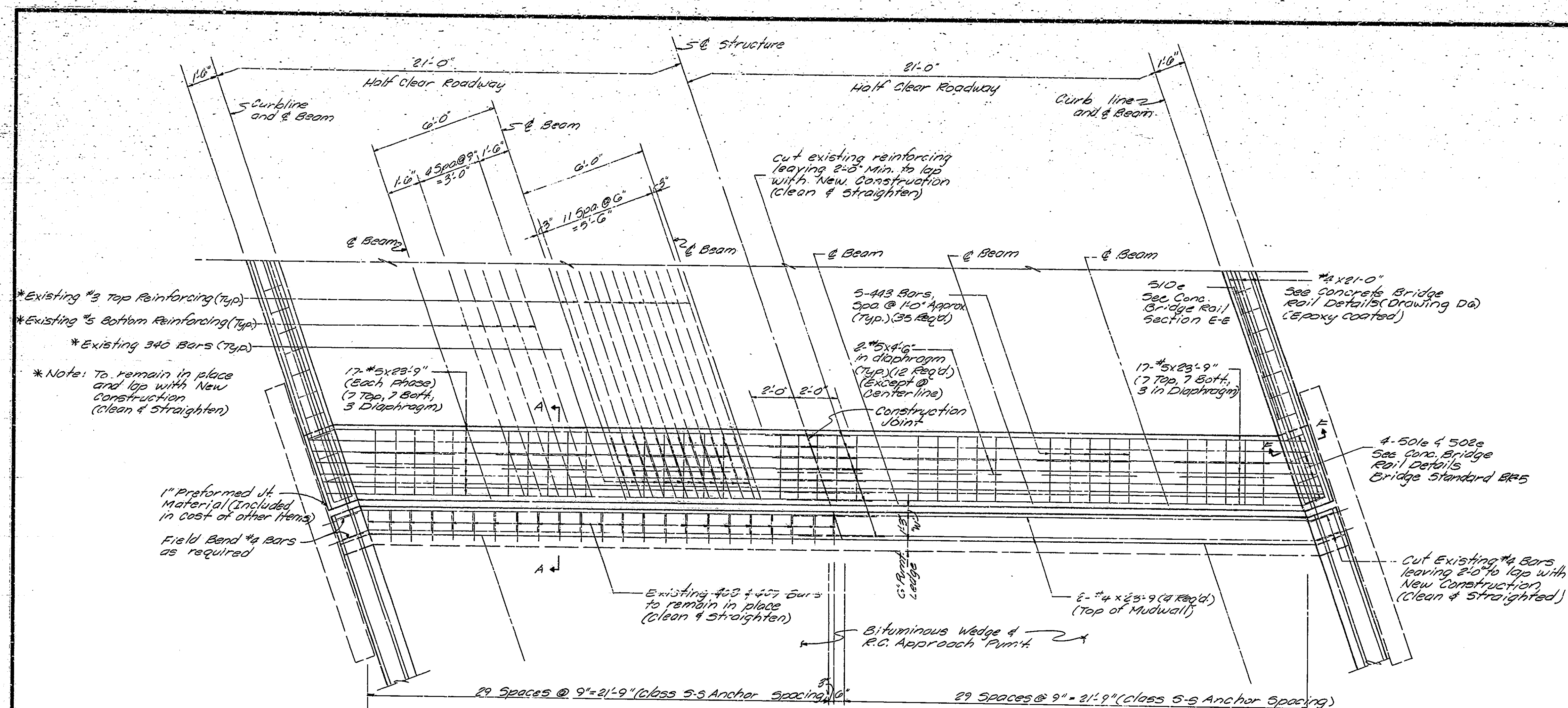
Jerry D. Ritchie

DRAWING: D₄ OF 3 SHEET: G OF 25
PROJECT: SR-5502(11) STATION: -
BRIDGE CONTRACT NO. B-16102
BRIDGE FILE: 101-02-5782A

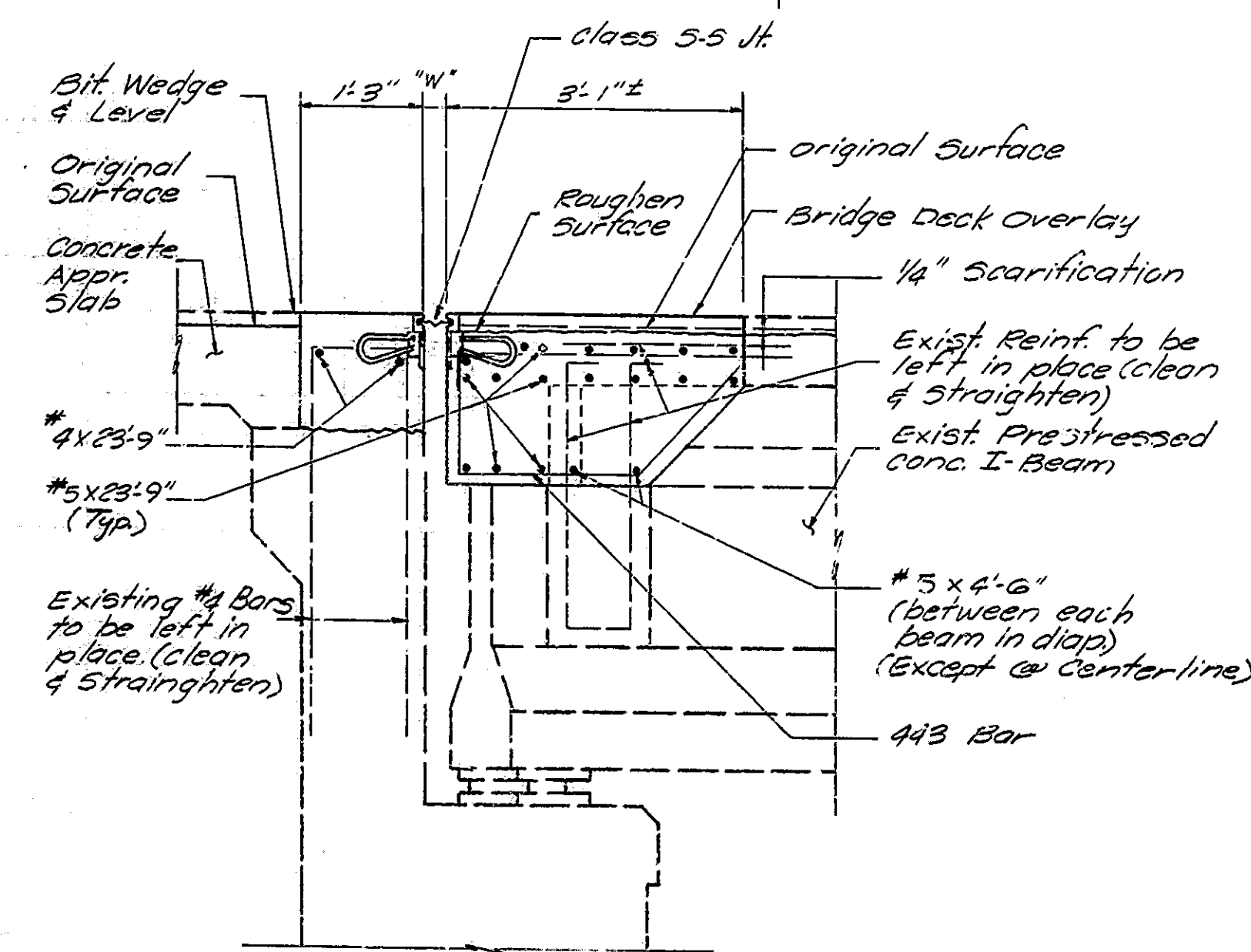


DESIGNED: P.B.E. CKD. J.D.R.
DRAWN: P.B.E. CKD. J.D.R.
TRACED: P.B.E. CKD. J.D.R.

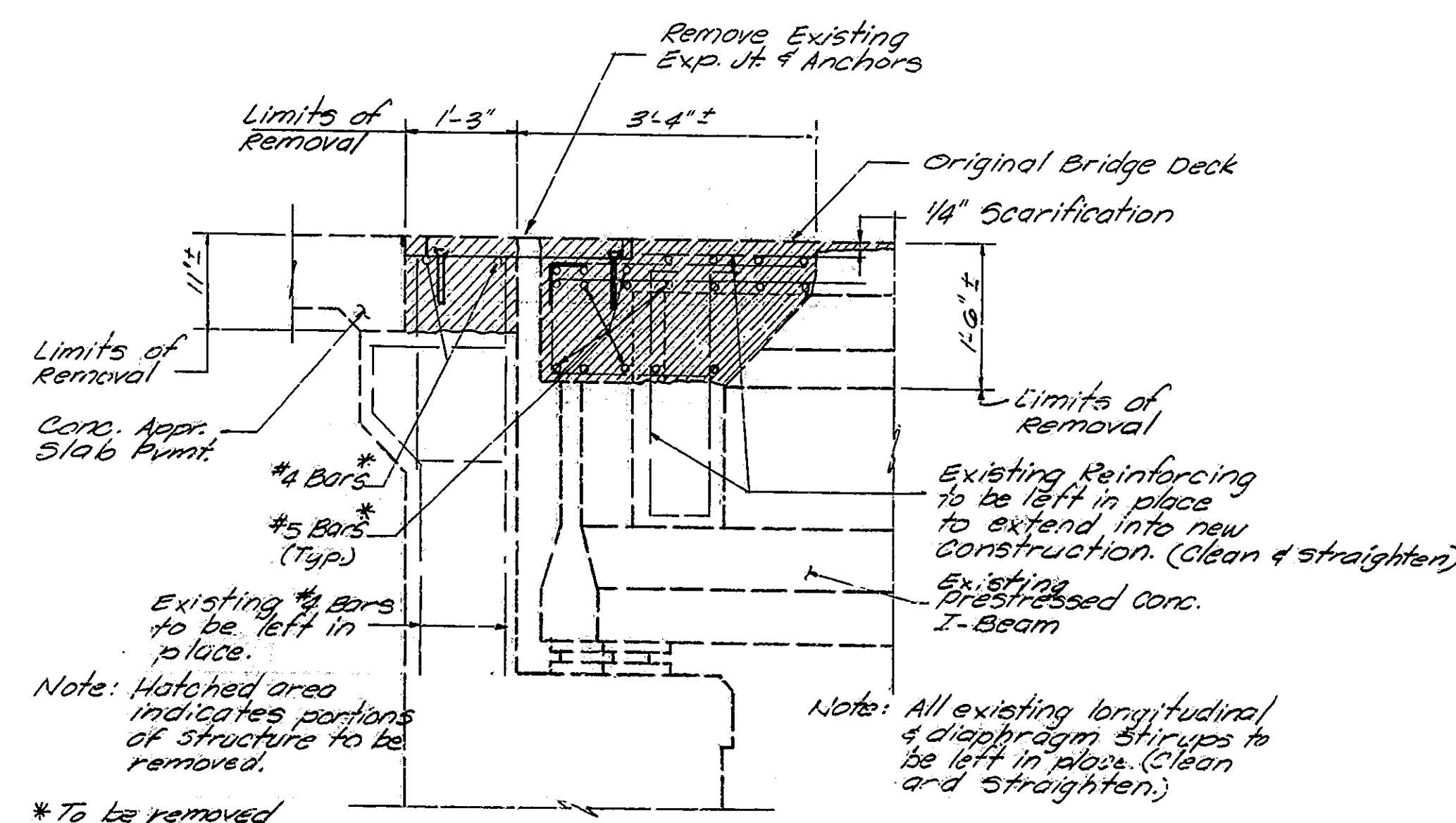
SF-22317



PART SLAB PLAN
Scale: 3/8" = 1'-0"
(Typ. @ Each End of Slab)

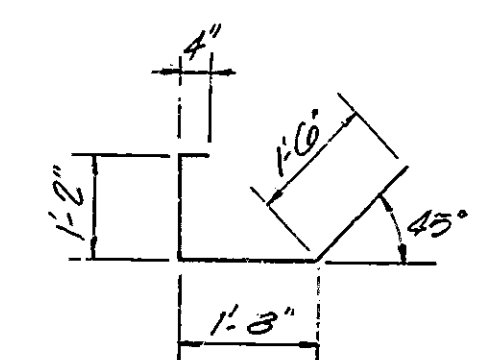


SECTION A-A SHOWING S-S JOINT INSTALLATION
Scale: 3/8" = 1'-0"



SECTION A-A SHOWING LIMITS OF REMOVAL
Scale: 3/8" = 1'-0"

BILL OF MATERIALS			
REINFORCING STEEL			
Size & Mark	No. of Bars	Length	Weight (lbs.)
#5	63	23'-9"	
#5	24	4'-6"	
	Total	#5	1797*
#4	70	4'-8"	
#4	8	23'-9"	
	Total	#4	345
Total Reinf. Steel			2142
CONCRETE			
Concrete Class A in Superstructure			Cys.
1 @ 4.5 Phase I			9.0
2 @ 4.5 Phase II			9.0
Total			18.0 Cys.
Miscellaneous			
Expansion Joint Class 5-5			96 LF.



443 x 4 x 8"

BAR BENDING DETAILS

NOTES

See Bridge Std. C1 for Reinforcing Bar Notes.
See Bridge Std. C3 for Construction Joints.
See Drawing D6 for Exp. JT. Class 5-5.
See Drawing D6 for Bridge Rail Section E-E & E-E.

SUPERSTRUCTURE DETAILS
INDIANA DEPARTMENT OF HIGHWAYS

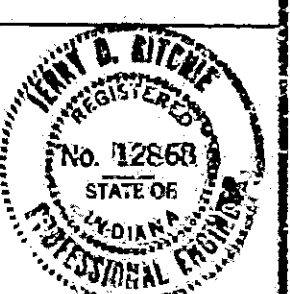
SCALE: - As Noted

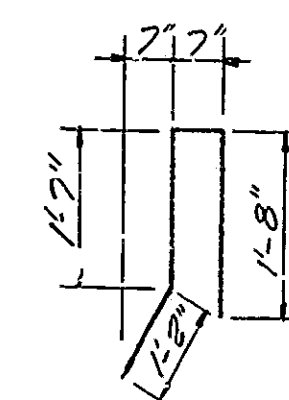
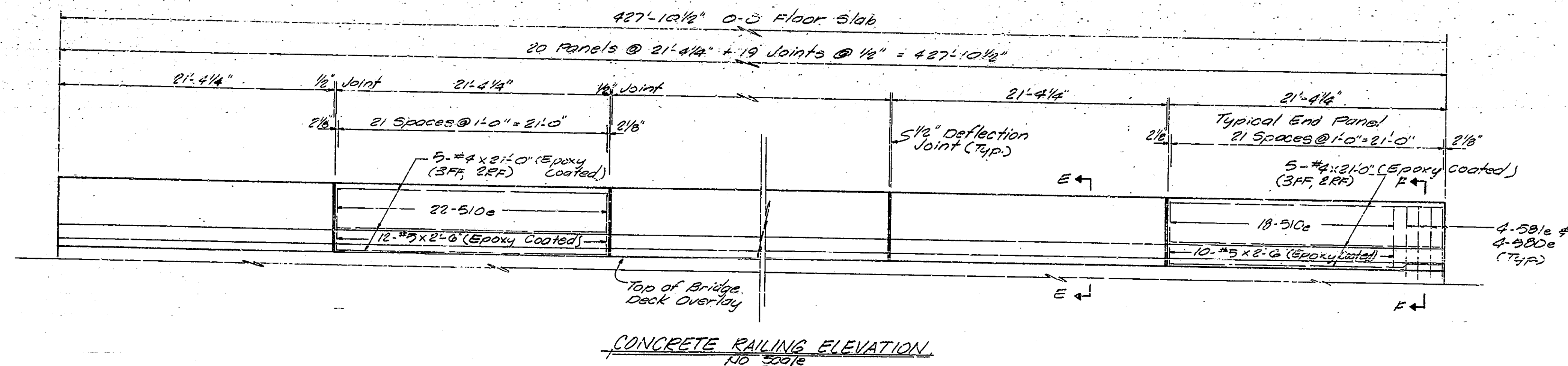
DATE: 2-12-86

1956

Jerry D. Ritchie

DRAWING: D5 OF 8 SHEET: 7 OF 25
PROJECT: SR-550E (11) STATION: -
BRIDGE CONTRACT NO. B-16102
BRIDGE FILE: 101-02-5782A



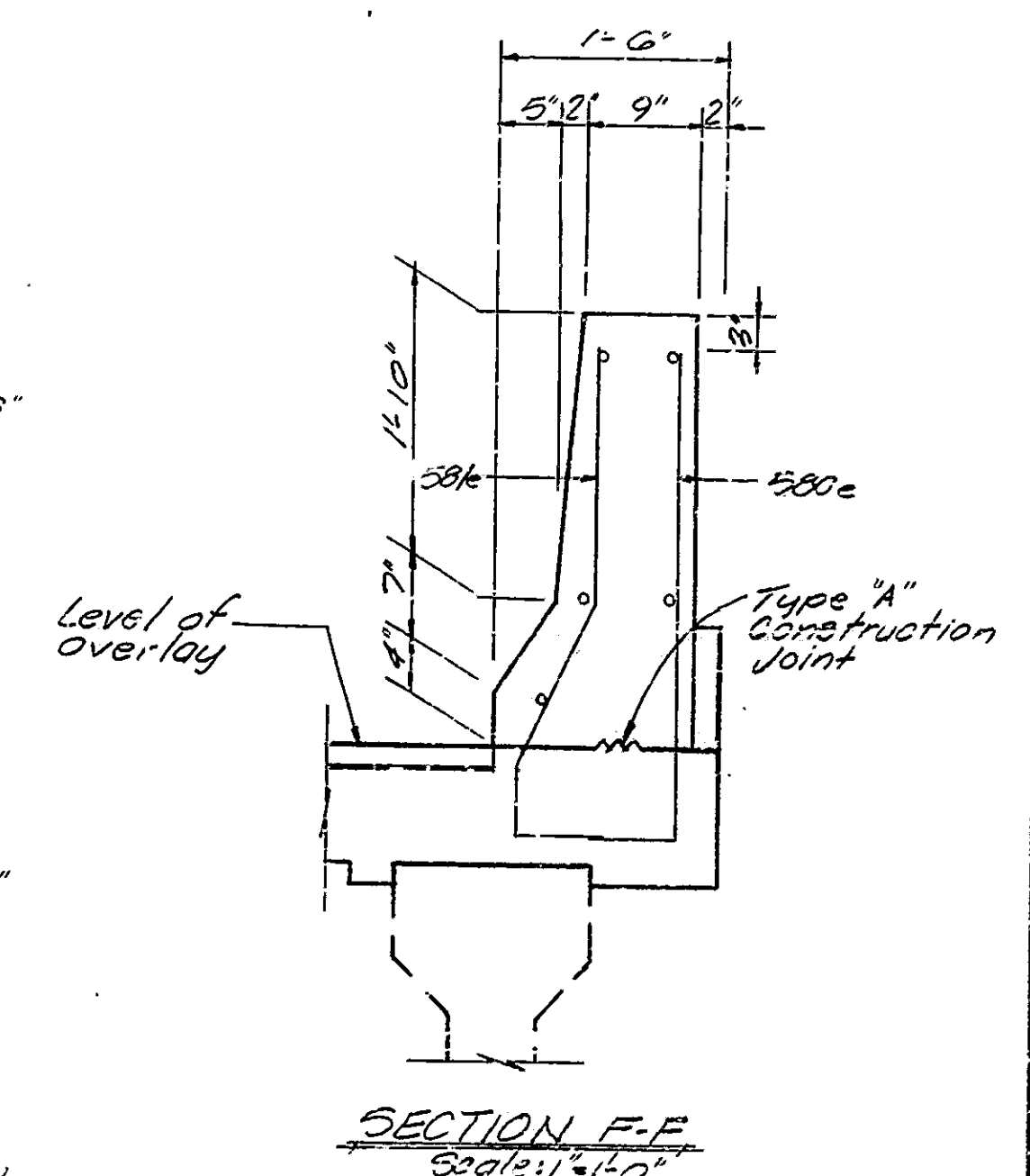
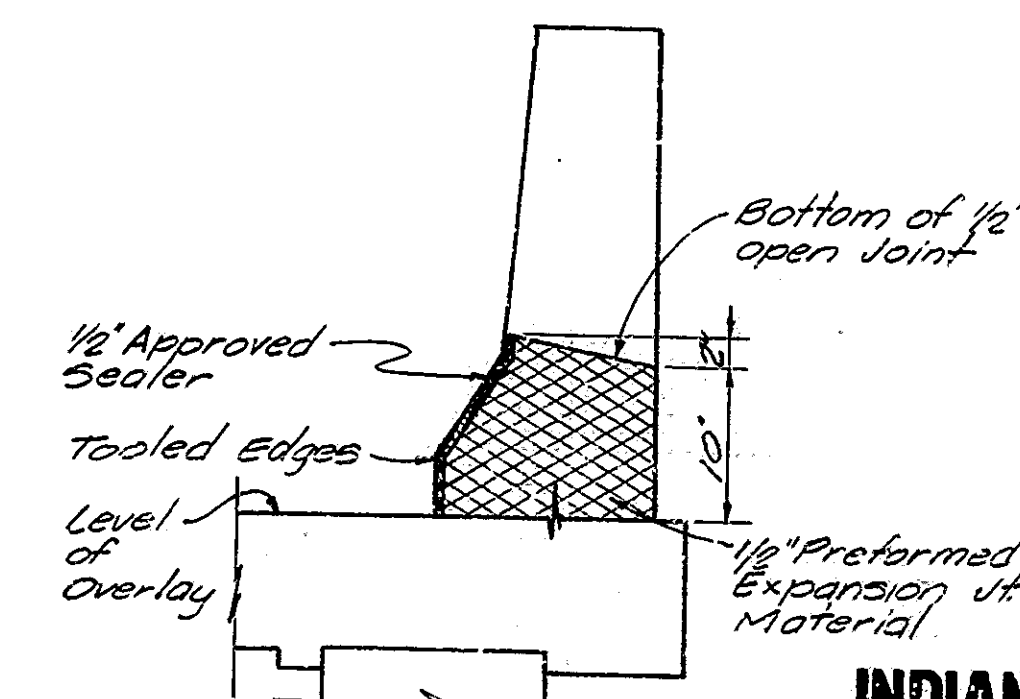
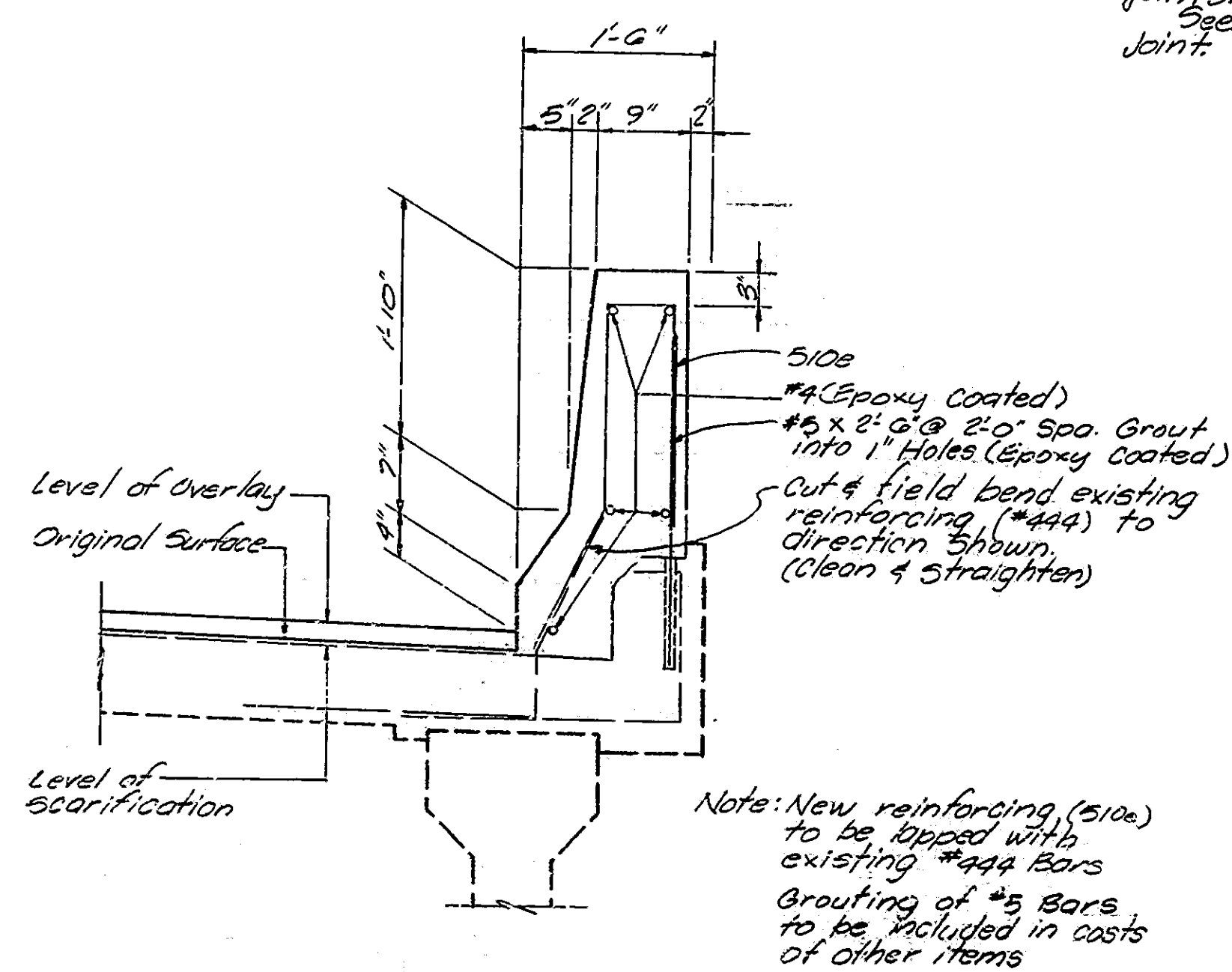
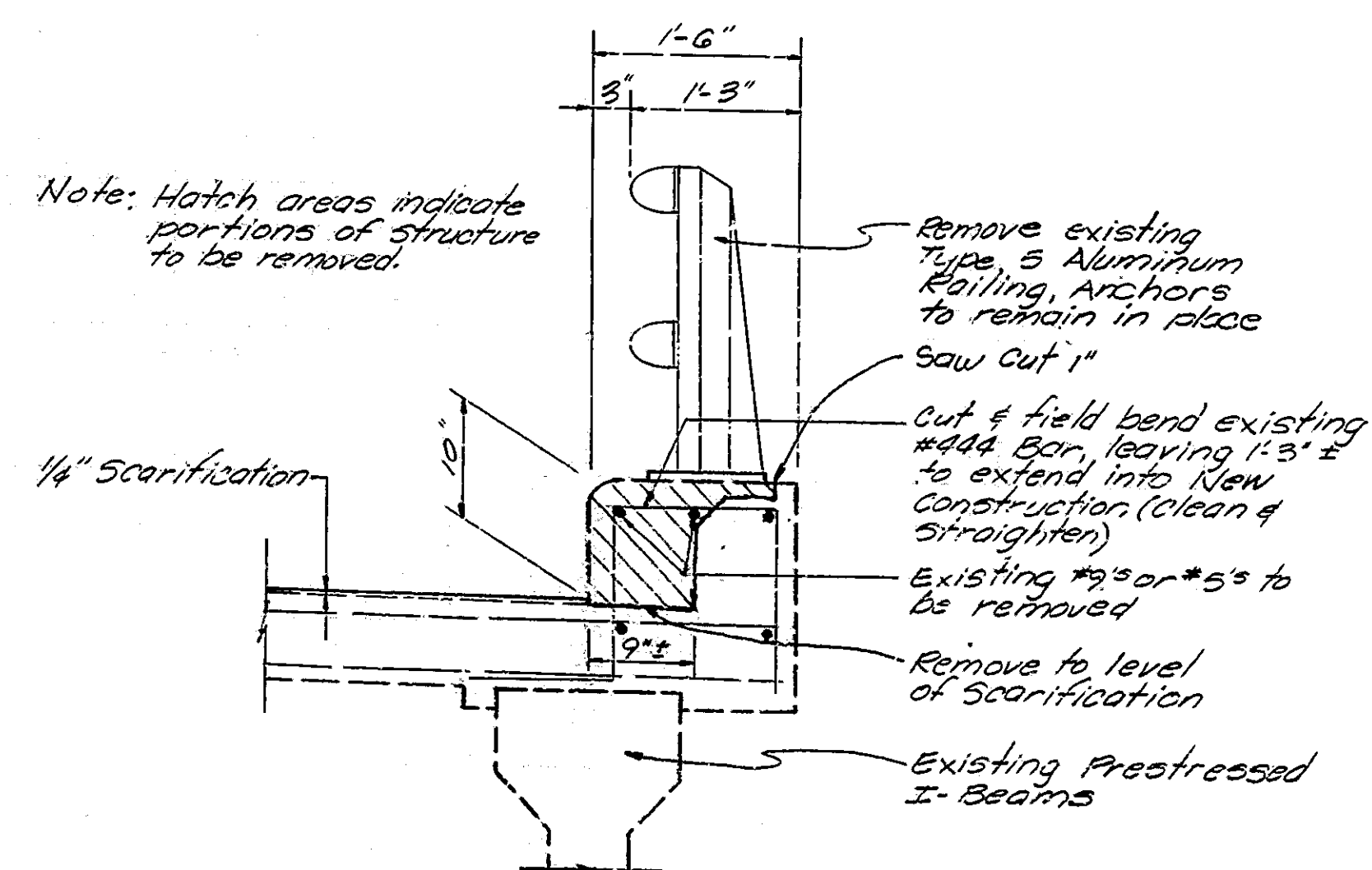


510e x 5'-0"

BAR BENDING DETAIL
No Scale

NOTES

See Bridge Standard B25 for additional notes and details, and bar bending details 291e, 580e.
See Bridge Standard C1 for reinforcing bar notes.
See Bridge Standard C3 for construction joints.
See Drawing D5 for Installation Plan of class "S.S" joint.



SUPERSTRUCTURE DETAILS

INDIANA DEPARTMENT OF HIGHWAYS

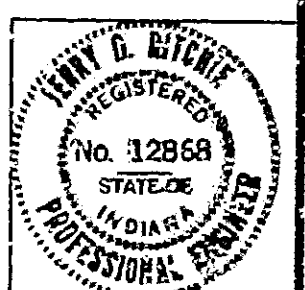
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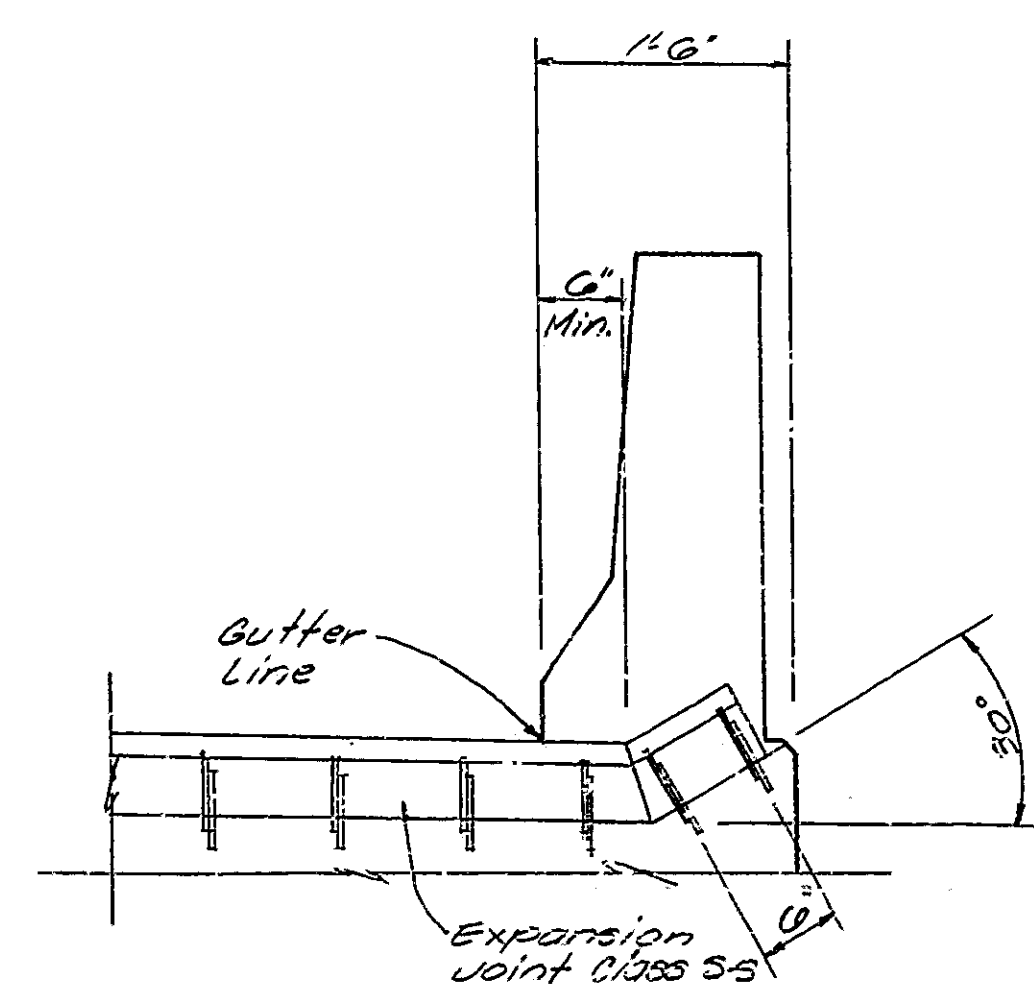
DATE: 2-12-82

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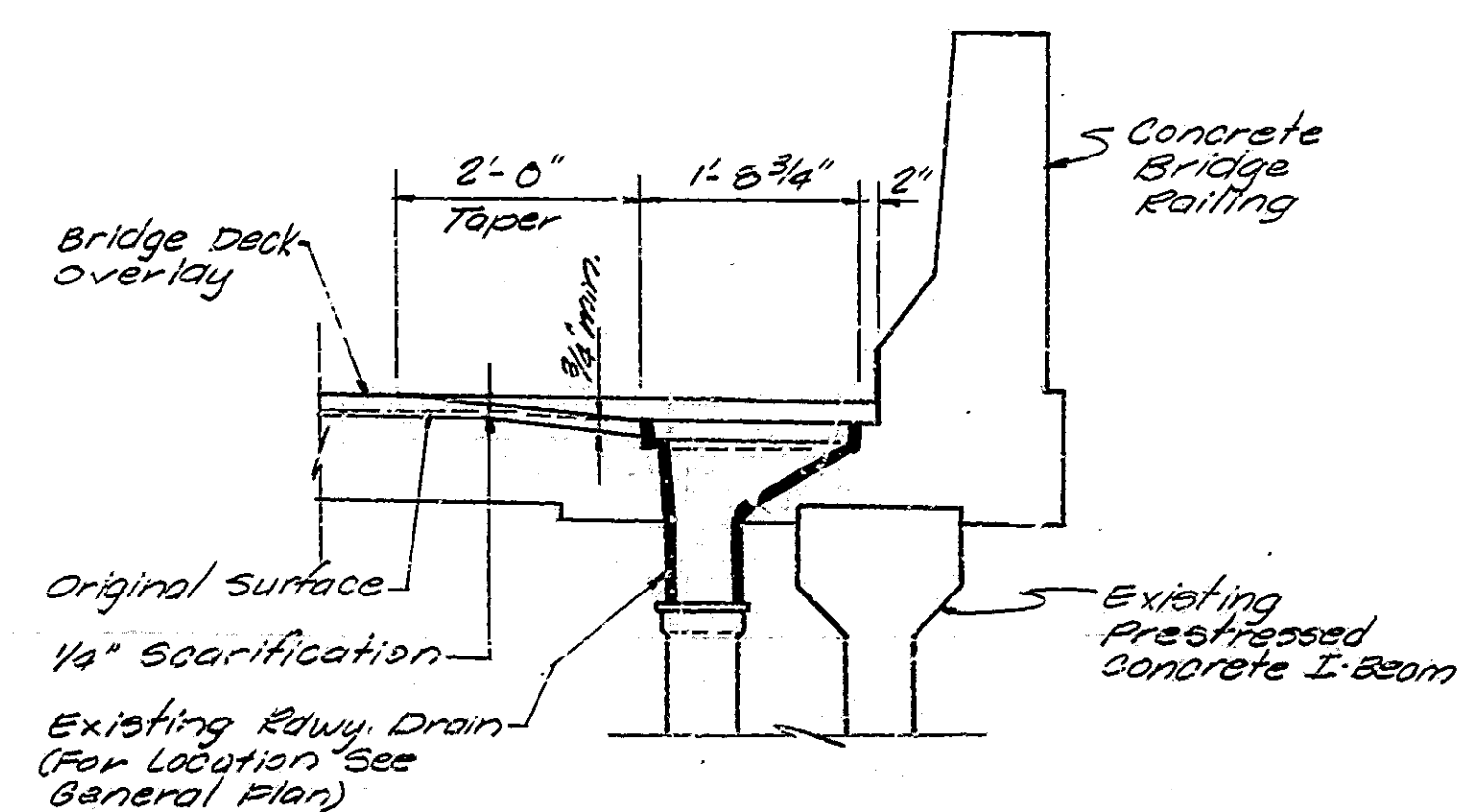
Jerry D. Ritchie

DRAWING: 06 OF 8 SHEET: 8 OF 25
PROJECT: SR5502(11) STATION: -
BRIDGE CONTRACT NO. B-16102
BRIDGE FILE: 101-02-5782A

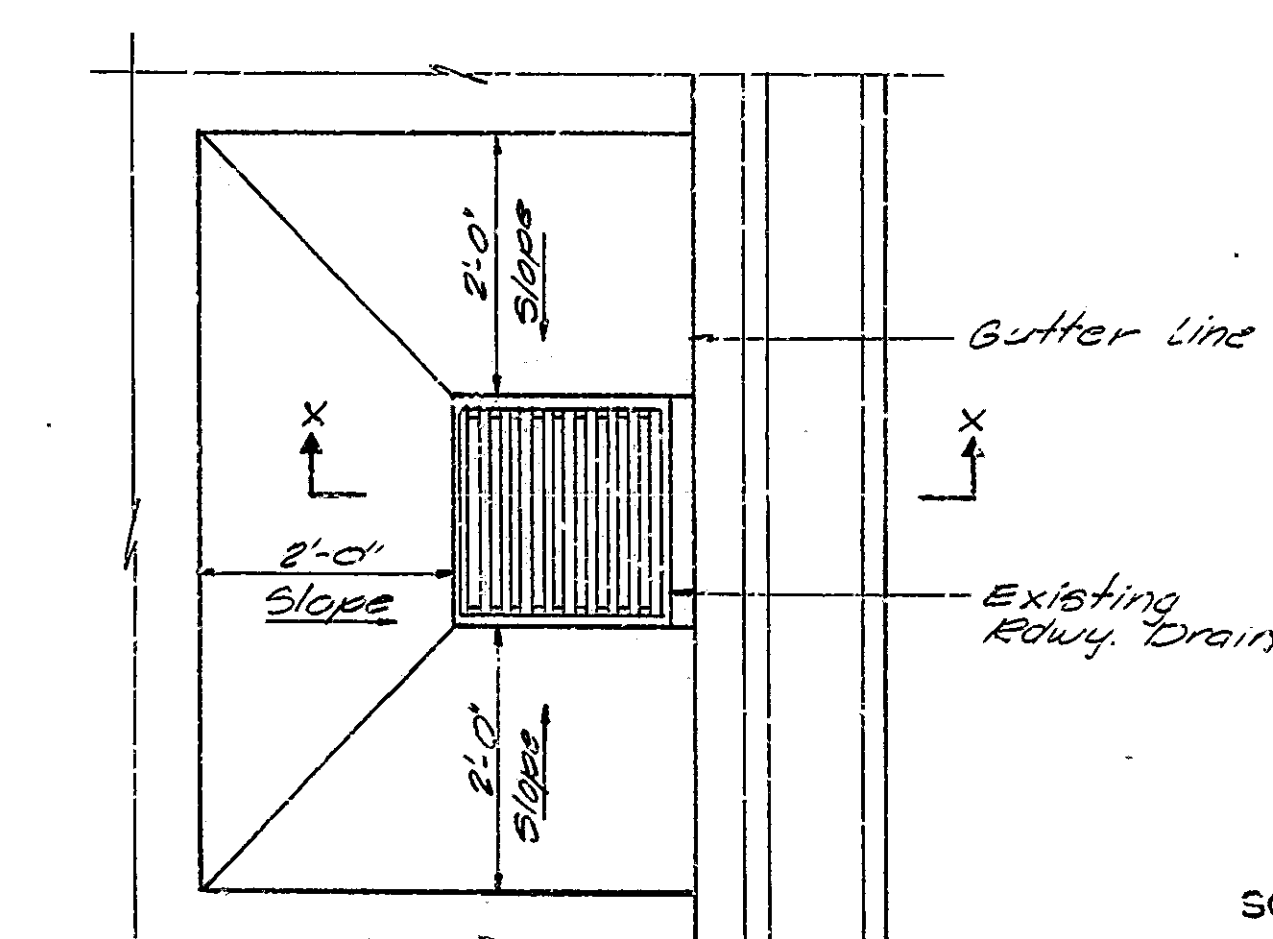




CLASS 5-5 JOINT INSTALLATION THRU CONC RAIL
Scale: 3/4" = 1'-0"



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



ROADWAY DRAIN ADJUSTMENT DETAIL
Scale: 3/4" = 1'-0"

MISCELLANEOUS DETAILS
INDIANA DEPARTMENT OF HIGHWAYS

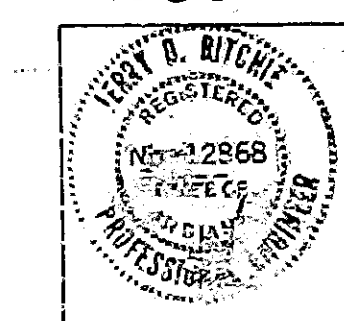
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DATE: 2-12-86

1986

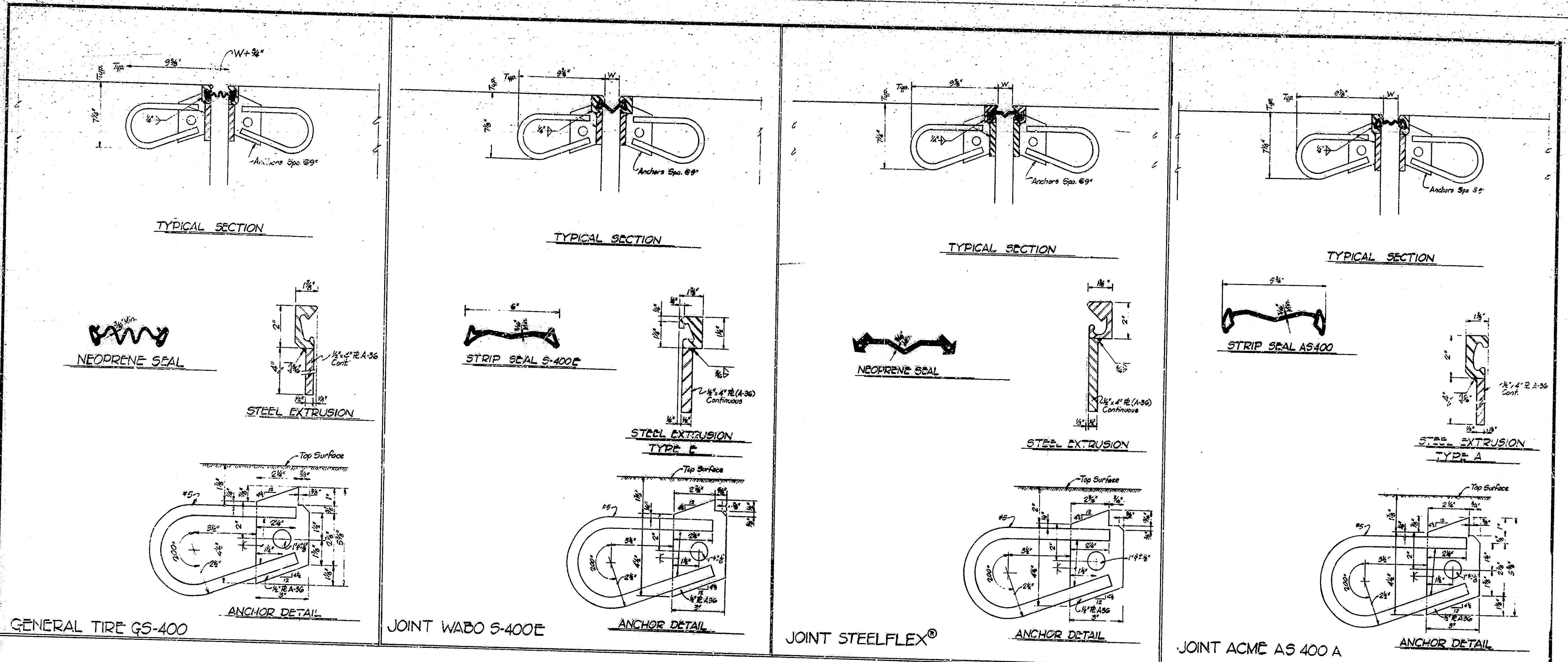
Jerry D. Ritchie

DRAWING: D₁ OF 8 SHEET: 9 OF 25
PROJECT: SR5502(11) STATION: -
BRIDGE CONTRACT NO. B-16102
BRIDGE FILE: 101-02-5732 A



DESIGNED: FDR, II CKD
DRAWN: J. GREEN, CKD
TRACED: J. GREEN, CKD

SF-22317



NOTES

SEE THE SPECIAL PROVISIONS FOR PROPERTIES OF MATERIALS.

THE STRIP SEAL GLAND SHALL BE SIZED TO ACCOMMODATE AT LEAST FOUR (4) INCHES OF MOVEMENT.

THE STRIP SEAL GLAND SHALL BE INSTALLED IN AN EXTRUDED MOUNTING UNIT.

THE COST OF EXTRUDED 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 (CURVES, MEDIAN BARRIERS, ETC.) THE SECTIONS OF JOINT ARE TO BE CUT TO THE BEVEL REQUIRED TO PRODUCE THE SAME CROSS SECTION ON EACH SIDE BEING JOINED.

THE ANCHOR SYSTEM IS TO BE SHOP PREPARED 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 & FIELD, SHALL BE IN ACCORDANCE WITH THIS.

ALL EXPOSED STRUCTURAL STEEL SURFACES WILL BE PAINTED IN ACCORDANCE WITH DOH STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL SUBMIT 3 COPIES OF SHOP DRAWINGS FOR ALL JOINTS INVOLVING CURVES OR OTHER SPECIAL FEATURES.

Ambient Temperature	JOINT SETTING TABLE		
	DIMENSION "W"		
	Expansion Length		
	100'-200'	200'-300'	300'-400'
120°	2 1/4"	1 3/4"	1 1/2"
100°	2 3/8"	1 7/8"	1 3/4"
80°	2 1/2"	2 1/4"	1 7/8"
60°	2 3/4"	2 1/2"	2 1/4"
40°	3 1/4"	3 1/8"	2 3/4"
20°	3 3/4"	3 1/2"	3 1/4"
0°	3 3/4"	3 3/4"	4"

NOTE: EXTRUSIONS WITH HEIGHTS BETWEEN 1 1/2" AND 2" MAY BE SUBSTITUTED FOR THOSE SHOWN. IF SUCH A SUBSTITUTION IS MADE, THE NOTCH IN THE ANCHOR PLATE AND THE STRIP SEAL GLAND SHALL BE MODIFIED ACCORDINGLY AND IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

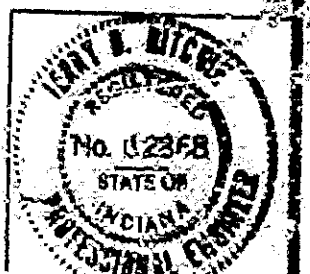
NOTE: JOINT ONFLEX 40SF MAY BE USED IN LIEU OF JOINTS SHOWN ABOVE.

EXPANSION JOINTS CLASS S-S
INDIANA DEPARTMENT OF HIGHWAYS

SCALE: NONE

DATE: 2-21-82
 Jerry D. Patche

DRAWING: DS OF B SHEET: 10 OF 25
 PROJECT: SP-5502(11)
 CONTRACT NO. B-16102
 BRIDGE FILE: 101-08-5782A



STRUCTURE PAY ITEMS				
CODE NO.	DESCRIPTION	UNIT	STRUCTURE	TOTAL QUANTITY
51003	MOBILIZATION AND DEMOBILIZATION (LSUM)			
51002	CONCRETE, CLASS C IN			
51001	SUBSTRUCTURE	CYS.		
51000	CONCRETE, CLASS A IN		18.0	18.0
51005	SUBSTRUCTURE	CYS.		
51010	CONCRETE, CLASS B ABOVE			
51015	FOOTINGS	CYS.		
51015	CONCRETE, CLASS B IN FOOTINGS			
51073	SPECIAL CONCRETE	CYS.		
51046	CONCRETE FOUNDATION SEAL	CYS.		
51045	CONCRETE STRUCTURAL MEMBERS	LSUM		
51813	PNEUMATICALLY PLACED MORTAR	SFT.		
51814	WELDED STEEL WIRE FABRIC	SFT.		
51870	REPOINTING MASONRY IN STRUCTURES	SFT.		
51875	SPECIAL CLASS A CONCRETE	SFT.		
51030	REINFORCING STEEL	LBS.		3770
51032	EPOXY COATED REINFORCING STEEL	LBS.	11,306	11,306
51035	STRUCTURAL STEEL	LBS.		
51038	STRUCTURAL STEEL	LSUM		
51070	ANCHOR PLATES (K-AP 1)	EACH		
51075	ANCHOR PLATES (K-AP 2)	EACH		
51080	ANCHOR PLATES (K-AP 3)	EACH		
51085	ANCHOR PLATES (K-AP 4)	EACH		
51112	ANCHOR BOLTS	EACH		
51114	ANCHOR BOLT AF-22	EACH		
51100	CAST IRON DRAIN PIPE, 6 INCH	LBS.		
51110	CAST IRON, GRATES, BASINS AND FITTINGS	LBS.		
51092	STEELPIPE CONDUIT (2 INCH)	LFT.		
51020	CLASS C, CONCRETE RAILING	CYS.		
51014	CLASS A, CONCRETE RAILING	CYS.		
51112	CLASS C CONCRETE RAILING	LFT.	941	941
51120	RAILING (TYPE 5 or C)	LFT.		
51125	RAILING (TYPE 5A or C)	LFT.		
51130	RAILING (TYPE 5 or D)	LFT.		
51131	RAILING (TYPE 7 or E)	LFT.		
51131	BARRIER RAILING TYPE X	LFT.		
51127	BARRIER RAILING TYPE Y	LFT.		
51132	RAILING RESET	LFT.		
51134	REMOVAL OF PRESENT RAILING	LFT.		856
51128	ALUMINUM BARRIER RAIL	LFT.		
51129	ALUMINUM PEDESTRIAN RAIL	LFT.		
51129	ALUMINUM POST (TYPE)	EACH		
51129	ALUMINUM POST AND ANCHORAGE (TYPE)	EACH		
51881	EXPANSION JOINT, TYPE BS2	LFT.		
51885	EXPANSION JOINT, TYPE BS3	LFT.		
51887	EXPANSION JOINT, TYPE BS3	LFT.		
51888	EXPANSION JOINT, TYPE BS3	LFT.		
51890	EXPANSION JOINT, TYPE BS1	LFT.		
51925	EXPANSION JOINT, CLASS S-S	LFT.		96
51926	EXPANSION JOINT, CLASS T-S	LFT.		
51927	EXPANSION JOINT, MODULAR	LFT.		
51839	PAINTING OLD STEEL BRIDGE	LSUM		
51861	PAINTING BEARING ASSEMBLIES	LSUM		
51215	CLASS A EXCAVATION	CYS.		
51220	LET EXCAVATION	CYS.		
51223	WATERWAY EXCAVATION	CYS.		
51225	LET EXCAVATION	CYS.		
51230	FOUNDATION EXCAVATION (UNCLASSIFIED)	CYS.		
51871	SURFACE SEAL	LSUM		

STRUCTURE PAY ITEMS				
CODE NO.	DESCRIPTION	UNIT	STRUCTURE	TOTAL QUANTITY
51115	TIMBER PILES FURNISHED, UNDRIVEN	LFT.		
51140	TIMBER PILES DRIVEN, UNDRIVEN	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 II PILES FURNISHED AND DRIVEN (8 DP 36)	LFT.		
51190	STEEL II PILES FURNISHED AND DRIVEN (10 DP 42)	LFT.		
51195	STEEL II PILES FURNISHED AND DRIVEN (12 DP 53)	LFT.		
51156	EPOXY COATED PILE SHELLS FURNISHED AND INSTALLED (12 IN)	LFT.		
51157	EPOXY COATED PILE SHELLS FURNISHED AND INSTALLED (14 IN)	LFT.		
51210	PILE ENCASMENT (CONCRETE)	LFT.		
51328	REMOVAL OF PRESENT STRUCTURE (PORTIONS)	LSUM		
51336	REMOVAL OF PRESENT STRUCTURE	LSUM		
51366	CONCRETE SLOPEWALL, 5 INCH	SYS.		
51367	CONCRETE SLOPEWALL, 4 INCH	SYS.		
51369	REMOVAL OF CONCRETE SLOPEWALL	SYS.		
51367	SLOPEWALL	SYS.		
51370	RIPRAP	TON		50
51375	REVENEMENT RIPRAP	TON		
51372	DUMPED RIPRAP	TON		
52503	NO. 2 AGGREGATE/CLASS A, B OR C	TON		
51374	PLASTIC FILTER CLOTH	SYS.		
51500	RESHAPING SPILL SLOPES	LSUM		
51863	FIELD DRILLED HOLES IN CONCRETE	EACH		478
51864	FIELD DRILLED HOLES	EACH		
51866	RIVETS REMOVED	EACH		
51867	STRUCTURAL STEEL CUTTING	SIN.		
51833	CONCRETE SCABBING	S.S.		2232
51837	BLASTING AND CLEANING	SYS.		2011
51843	BRIDGE DECK PATCHING	SFT.		1810
51401	FULL DEPTH PATCHING	SFT.		100
51842	BRIDGE DECK OVERLAY	SYS.		2011
51845	BRIDGE DECK SURFACE	SYS.		
51838	FINISHING AND CURING	SYS.		2011
51846	ADDITIONAL BRIDGE DECK OVERLAY	CYS.		17
52412	REMOVAL OF BITUMINOUS OVERLAY	SYS.		
51874	OVERLAY DAM	SFT.		

APPROACH PAY ITEMS				
CODE NO.	DESCRIPTION	UNIT	STRUCTURE	TOTAL QUANTITY
52170	CLEARING RIGHT-OF-WAY	LSUM		
02020	UNCLASSIFIED EXCAVATION	CYS.		
02045	EXCAVATION FOR SUBGRADE	CYS.		
52245	TRUCKING	CYS.		
52250	B BORROW	CYS.		
52255	B BORROW FOR STRUCTURE BACKFILL	CYS.		
52280	CONCRETE PAVEMENT REINFORCED (7 INCH)	SYS.		
52285	CONCRETE PAVEMENT REINFORCED (12 INCH)	SYS.		
52290	CONCRETE PAVEMENT REINFORCED (9 INCH)	SYS.		
52300	CONCRETE PAVEMENT REINFORCED (10 INCH)	SYS.		
52305	PLAIN CONCRETE PAVEMENT (1 INCH)	SYS.		91
52305	SPECIAL INTEGRAL CURB	LFT.		28
52303	REMOVAL OF PAVEMENT	SYS.		75
02235	BRACKING PAVEMENT	SYS.		
52490	TERMINAL JOINT	LFT.		
52495	CONTRACTION JOINT, TYPE D-1	LFT.		
52711	CONCRETE SIDEWALK	SYS.		
52710	REMOVAL OF CONCRETE SIDEWALK	SYS.		
52605	AGGREGATE FOR SHOULDER DRAINS	TON		
52610	AGGREGATE FOR UNDER DRAINS	CYS.		
52305	TYPE P COMPACTED AGGREGATE FOR BASE (SIZE NO. 53)	TON		
52308	TYPE O COMPACTED AGGREGATE FOR BASE (SIZE NO. 53)	TON		47
52310	SUBBASE	CYS.		
52411	GRAVEL SUBBASE	TON		
52444	OPEN GRADED BITUMINOUS	TON		
52445	BASE NO. 5	TON		
52452	BITUMINOUS BASE (SIZE NO. 50)	TON		
52451	BITUMINOUS BINDER	TON		
52450	BITUMINOUS SURFACE	TON		
52470	BITUMINOUS MIXTURE FOR APPROACHES	TON		230
52456	BITUMINOUS MATERIAL FOR TACK COAT	SYS.		1120
52461	BITUMINOUS MATERIAL FOR PRIME COAT	SYS.		
04340	SEAL COAT TYPE 2	SYS.		
04351	SEAL COAT TYPE 5	SYS.		
52413	REMOVAL OF BITUMINOUS SURFACE	SYS.		
52500	GUARD RAIL, TYPE A	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, TYPE G	LFT.		
52531	GUARD RAIL, TYPE H	LFT.		3102
52538	GUARD RAIL END TREATMENT TYPE I	EACH		4
52539	GUARD RAIL END TREATMENT TYPE II	EACH		
52496	REMOV. GUARD RAIL	LFT.		
52535	REMOVAL OF GUARD RAIL	LFT.		4945
52841	IMPACT ATTENUATOR, SAND BARREL ARRAY AND PAD	EACH		
52365	RIGHT-OF-WAY MARKERS	EACH		
06500	MONUMENT, TYPE A	EACH		
06505	MONUMENT, TYPE B	EACH		
06510	MONUMENT, TYPE C	EACH		
06515	MONUMENT, TYPE D	EACH		
52851	SECTION CORNER MONUMENT	EACH		

APPROACH PAY ITEMS				
CODE NO.	DESCRIPTION	UNIT	STRUCTURE	TOTAL QUANTITY
07025	PIPE, GR. A(0.064" FPOCS) 12"	LFT.		
07075	PIPE, GR. A(0.064" FPOCS) 15"	LFT.		
07125	PIPE, GR. A(0.064" FPOCS) 18"	LFT.		
07175	PIPE, GR. A(0.064" FPOCS) 24"	LFT.		
07225	PIPE, GR. A(0.064" FPOCS) 30"	LFT.		
07275	PIPE, GR. A(0.064" FPOCS) 36"	LFT.		
07325	PIPE, GR. A(0.064" FPOCS) 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.		
44255	PIPE, GR. K FOR UNDERDRAINS 6"	LFT.		
52852	PIPE, 0.052" FPOCS 6"	LFT.		
34000	PIPE, 0.052" FPOCS PER CS 6"	LFT.		
29000	PIPE, 0.064" FPOCS 12"	LFT.		
44275	PIPE, FPOCS 0.052" FOR UNDERDRAINS 6"	LFT.		
46000	PIPE END SECTION 12"	EACH		
46005	PIPE END SECTION 15"	EACH		
46010	PIPE END SECTION 18"	EACH		
46015	PIPE END SECTION 24"	EACH		
46020	PIPE END SECTION 30"	EACH		
46025	PIPE END SECTION 36"	EACH		
46030	PIPE END SECTION 42"	EACH		
52775	CONCRETE CLASS A IN STRUCTURE	CYS.		
52775	CONCRETE CLASS C IN STRUCTURE	CYS.		
52775	CRACKING PAVED SIDE DITCH	LFT.		150
06135	PAVED SIDE DITCH TYPE A	LFT.		40
06140	PAVED SIDE DITCH TYPE B	LFT.		
06145	PAVED SIDE DITCH TYPE C	LFT.		
06150	PAVED SIDE DITCH TYPE D	LFT.		
06155	PAVED SIDE DITCH TYPE E	LFT.		
06160	PAVED SIDE DITCH TYPE F	LFT.		
53071	REMOVAL OF PAVED SIDE DITCH	SYS.		40
52836	CASTING ADJUSTED TO GRADE	EACH		
52831	DRILLED HOLES FOR JACKING	EACH		5
52830	MATERIALS FOR JACKING	CYS.		2
52448	"DO NOT SPRAY" SIGNS	EACH		
52380	SODDING	SYS.		
52381	SODDING (NURSERY)	SYS.		14
52382	MULCHED SEEDING (LOGGING)	SYS.		
52398	SEED MIXTURE "CV"	LBS.		
52391	SEED MIXTURE (GRASS)	LBS.		
52400	MULCHING MATERIAL	TON		
52405	FERTILIZER	TON		
52410	WATER	MG.		
52415	AGRICULTURAL LIME/STONE	TON		
52401	MULCHING MATERIAL (WOOD CELLULOSE FIBER)	TON		
52447	STRAY BALES IN PLACE	EACH		
06770	DELINERATOR POST	EACH		
06040	47" FENCE, FARM FIELD	LFT.		
06045	48" FENCE, CHAIN LINK	LFT.		

TRAFFIC PAY ITEMS				
CODE NO.	DESCRIPTION	UNIT	STRUCTURE	TOTAL QUANTITY
52640	MAINTAINING TRAFFIC	LSUM		
51335	TEMPORARY BRIDGE AND APPROACHES	LSUM		
52818	TEMPORARY CROSSOVER TYPE A	EACH		
52819	TEMPORARY CROSSOVER TYPE B	EACH		
53072	TEMPORARY TRAFFIC SIGNAL	LSUM		
52536	TEMPORARY CONCRETE BARRIER	LFT.		220
52845	TEMPORARY IMPACT ATTENUATION DEVICE	EACH		
52340	CONSTRUCTION SIGNS TYPE A	EACH		22
52345	CONSTRUCTION SIGNS TYPE B	EACH		2
52346	STANDARD BARRICADES TYPE III-A	EACH		
52347	STANDARD BARRICADES TYPE III-B	EACH		
76020	SHEET SIGNS-TYPE I WITH LEGEND (0.080 in. THICKNESS)	SFT.		
76025	SHEET SIGNS-TYPE II WITH LEGEND (0.080 in. THICKNESS)	SFT.		
76030	SHEET SIGNS-TYPE I WITH LEGEND (0.100 in. THICKNESS)	SFT.		
76035	SHEET SIGNS-TYPE II WITH LEGEND (0.100 in. THICKNESS)	SFT.		
76040	SHEET SIGNS-TYPE I WITH LEGEND (0.125 in. THICKNESS)	SFT.		
76045	SHEET SIGNS-TYPE II WITH LEGEND (0.125 in. THICKNESS)	SFT.		
76055	TYPE "A" POSTS	LFT.		
76060	TYPE "AB" POSTS	LFT.		
76065	TYPE "B" POSTS	LFT.		
76075	TYPE "C" POSTS	LFT.		
52361	TEMPORARY PAVEMENT MARKING TYPE I	LFT.		3070
52362	TEMPORARY PAVEMENT MARKING TYPE II	LFT.		2730
52821	FLASHING ARROW SIGN	LWS.		
53001	LINE, SOLID, WHITE, 4"	LFT.		1660
53010	LINE, SOLID, YELLOW, 4"	LFT.		500
53035	LINE, SKIP, WHITE, 4"	LFT.		220
53066	LINE, SKIP, WHITE, 5"	LFT.		
53059	THERMOPLASTIC LINE, SKIP, WHITE, 5"	LFT.		
53020	REMOVAL OF LINE, SOLID, WHITE, 4"	LFT.		1100
53030	REMOVAL OF LINE, SOLID, YELLOW, 4"	LFT.		
53041	REMOVAL OF LINE, SKIP, YELLOW, 4"	LFT.		150
53036	REMOVAL OF LINE, SKIP, WHITE, 5"	LFT.		
53055	REMOVAL OF THERMOPLASTIC LINE, SKIP, WHITE, 5"	LFT.		
06725	DELINERATOR WITH POST, TYPE D-1, 3 INCH	EACH		
06740	DELINERATOR WITH POST, TYPE D-2, 3 INCH	EACH		
	FIELD OFFICE	MPS		

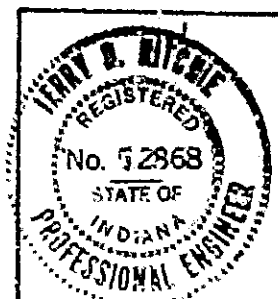
BRIDGE ESTIMATE OF QUANTITIES INDIANA DEPARTMENT OF HIGHWAYS

(Estimated Quantity = 11,000 SQ FT
 SUMMARYED M.N.S. C.K.D. P.D.B.H.
 TRACED M.N.S. C.K.D. P.D.B.H.
 SF-2232A
 MARCH 1984

Includes 57 tons for bit. Wedge and 173 tons for bit. Widening.
 "B" Includes 220 sq. of Approach Scarifying

REVISIONS	
DATE	ITEM
11-5-86	51001, 51032, CLASS C CONCRETE RAILING

DATE 2-21-86
 Jerry D. Ritchie
 PROJECT: SR 5502 (11)
 CONTRACT NO: B-16102
 BRIDGE FILE: 101-02-5782.9
 SHEET 11 OF 25



END STR
 101-02-5782.9