

CONTRACT NO. B-13658

INDEX					
PROJECT	STRUCTURE	TYPE	SPAN	OVER	STATION
RS-3801(2)	218-01-6575	CONTINUOUS REINFORCED CONCRETE SLAB BRIDGE	3 SPANS 19'-1", 26'-0", 19'-7"	WAGLEY FARLOW DITCH	224+25.66 TO 242+00.00
SHEET NO.	SHEET DESIGNATION	SUBJECT	E.M.W.A. APPROVAL		
1		TITLE SHEET AND INDEX			
2		TYPICAL CROSS SECTION			
3		PLAN AND PROFILE LINE OF A			
4		PLAN AND PROFILE COUNTY RD. 300E LEFT			
5		PLAN AND PROFILE COUNTY RD. 300E RIGHT			
6		DETAILS COUNTY RD. 300E LEFT			
7		DETAILS COUNTY RD. 300E RIGHT			
8	C-1	LAYOUT			
9	C-2	GENERAL PLAN			
10	C-3	STRUCTURE DETAILS			
11	C-4	DETAILS			
12		BRIDGE SUMMARY			
13		BRIDGE ESTIMATE OF QUANTITIES			
14		CONCRETE BRIDGE ESTIMATE OF QUANTITIES			
15		CROSS SECTIONS			

STATE OF INDIANA
INDIANA STATE HIGHWAY COMMISSION

BRIDGE PLANS FOR SPANS OVER 20 FEET ON STATE ROAD NO. 218

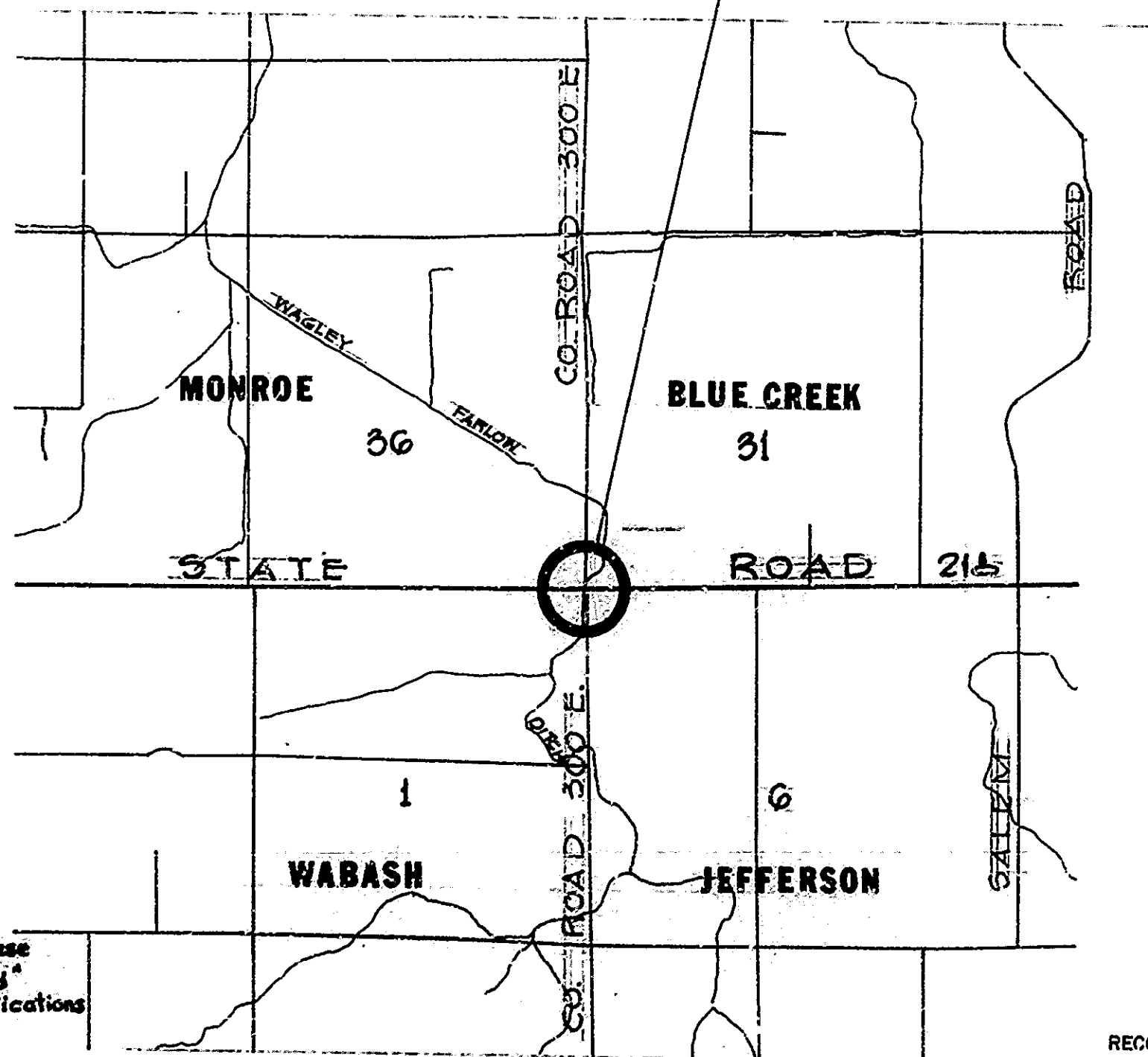
PROJECT NO. ST-3801 (A) PE.
ST-3801 (A) R/W
RS-3801 (2) CONST.

BEGINNING AT A POINT APPROXIMATELY 494.5' WEST OF THE EAST LINE OF SECTION 1 & SECTION 36 A POINT CALLED THE WEST PROJECT LIMIT, PROCEED EAST 1000' ALONG THE 1/4 SECTION LINE TO A POINT CALLED THE EAST PROJECT LIMIT, ALL BEING IN SECTIONS 1, T-25-N, R-14-E WABASH TWP., 26, E-26-N, R-14-E MONROE TWP., 6, T-25-N, R-14-E JEFFERSON TWP., 31, T-26-N, R-15-E BLUE CREEK TWP., ADAMS COUNTY, INDIANA

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

STATE PROJECT NO. RS-3801 (2) PROJECT LIMITS STA. 221 TO 250

TRAFFIC DATA		ST. RT. 218
A.D.T. (1978)		1150 V.P.D.
A.D.T. (1988 PROJECTED)		1510 V.P.D.
D.H.V. (1998 PROJECTED)		151 V.P.D.
TRUCKS		D.H.V. 5 % A.D.T. 1.3
DESIGN SPEED		70 M.P.H.
ACCESS CONTROL		NONE



PLANS PREPARED BY:
CONTECH ARCHITECTS AND ENGINEERS
FORT WAYNE, INDIANA
CERTIFIED BY: *J.M. Semuchin* DATE 7-31-80



Note: Whenever "Indiana State Highway Commission" appears in these plans, it shall be interpreted as "Indiana Department of Highway" except the 1978 Indiana State Highway Commission Specifications shall be used.

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

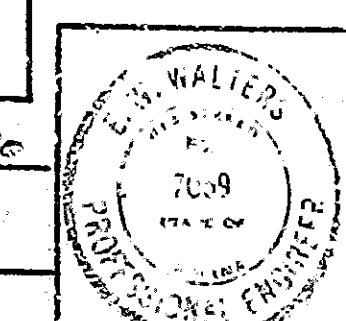
DATE	REVISIONS	SHEET NO.
05-27-81	3, 4, 5, 7, 8	
06-08-81	3, 4, 5, 6, 7, 8, 12, 15	
01-25-82	3, 5, 7, 8, 12, 15	
06-16-82	1, 2, 3, 4, 5, 7, 9, 10, 12, 15	
07-23-82	1, 3, SHEET 13A ADDED	

DATE	REVISIONS	SHEET NO.

RECOMMENDED FOR APPROVAL

ASSISTANT ENGINEER OF BRIDGE DESIGN,
INDIANA STATE HIGHWAY COMMISSION

RECOMMENDED FOR APPROVAL 12-1-80
E.W. Wallen
ENGINEER OF BRIDGE DESIGN, INDIANA STATE HIGHWAY COMMISSION



APPROVED 12-3-80

J.M. Semuchin
CHIEF HIGHWAY ENGINEER - INDIANA STATE HIGHWAY COMMISSION

FEDERAL HIGHWAY ADMINISTRATION
DEPARTMENT OF TRANSPORTATION

APPROVED:

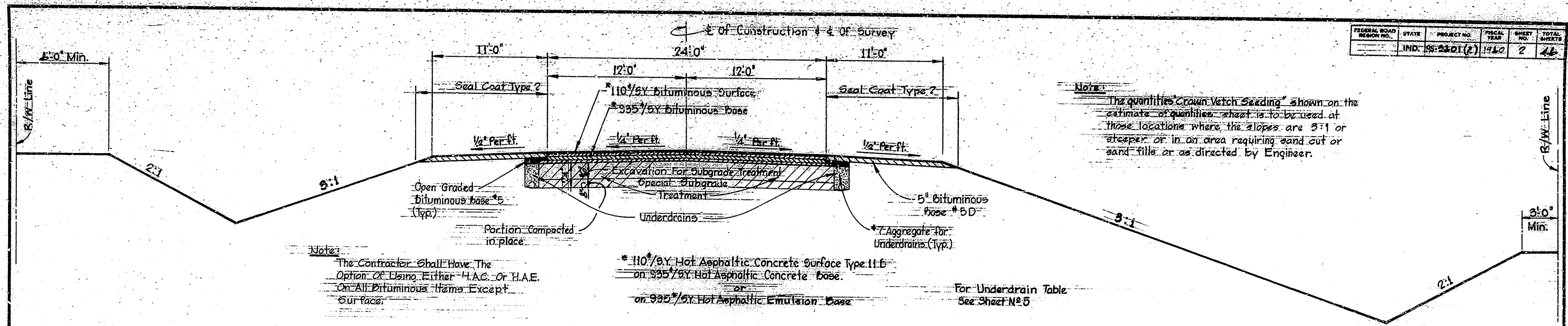
DIVISION ADMINISTRATOR DATE

BRIDGE FILE: 218-01-6575

BRIDGES OVER 20' SPAN				
FEDERAL REGION NO.	STATE	PROJECT NO.	TYPE	DATE
5	IND.	RS-3801 (2)	ROAD	12-1-80

INDEX CONTINUED			
SHEET NO.	SHEET DESIGNATION	SUBJECT	DATE
25	BRIDGE STD. BR1	ALUMINUM BRIDGE RAILING	12-16-80 R-11-5-80
26	BRIDGE STD. BR2	ALUMINUM BRIDGE RAILING DETAILS	5-10-79 R-12-1-78
27	BRIDGE STD. BR3	STEEL BRIDGE RAILING	12-16-80 R-11-5-80
28	BRIDGE STD. BR4	STEEL BRIDGE RAILING DETAILS	5-10-79 R-12-1-78
29	BRIDGE STD. BR5	RAILING CONNECTION DETAILS	5-10-79 R-12-1-78
30	BRIDGE STD. BR6	RAILING CONNECTION DETAILS	
31	BRIDGE STD. C1	MISCELLANEOUS DETAILS	12-21-81 R-12-7-81
32	BRIDGE STD. C2	MISCELLANEOUS DETAILS	
33	BRIDGE STD. C3	MISCELLANEOUS DETAILS	
34	BRIDGE STD. C4	MISCELLANEOUS DETAILS	
35	BRIDGE STD. D	CASTING DETAILS ROADWAY DRAINS	
36	BRIDGE STD. PA	PRESTRESSED CONCRETE TYPE I BEAMS	
37	BRIDGE STD. PB	PRESTRESSED CONCRETE TYPE I BEAMS	
38	BRIDGE STD. PC	PRESTRESSED BOX BEAMS	
39	BRIDGE STD. PD	PRESTRESSED COMPOSITE BOX BEAMS WIDE	
40	BRIDGE STD. PE	PRESTRESSED COMPOSITE BOX BEAMS WIDE	
41	BRIDGE STD. PF	TOLERANCES FOR FABRICATION OF PRESTRESSED BEAMS	
42	BRIDGE STD. PG	ELASTOMERIC BEARING PAD DETAILS	
43	BRIDGE STD. PH	BRIDGE LIGHTING DETAILS	
44	BRIDGE STD. PI	MISCELLANEOUS STANDARDS	1-17-72 R-6-2-71
45	BRIDGE STD. SH	STEEL SHOE DETAILS	
46	BRIDGE STD. T SHEET A	STANDARD TEMPORARY BRIDGE	
47	BRIDGE STD. T SHEET B	STANDARD TEMPORARY BRIDGE	
48	BRIDGE STD.		
49	BRIDGE STD.		
50	BRIDGE STD.		
51	ROAD STD. SHEET A	STANDARD PAVEMENT JOINTS	
52	ROAD STD. SHEET B	STANDARD PAVEMENT JOINTS	
53	ROAD STD. SHEET MA	MISCELLANEOUS STANDARDS	R-5-3-82
54	ROAD STD. SHEET MB	MISCELLANEOUS STANDARDS	
55	ROAD STD. SHEET MC	MISCELLANEOUS STANDARDS	
56	ROAD STD. SHEET MD	MISCELLANEOUS STANDARDS	
57	ROAD STD. SHEET ME	MISCELLANEOUS STANDARDS	
58	ROAD STD. SHEET MF	MISCELLANEOUS STANDARDS	
59	ROAD STD. SHEET MG	MISCELLANEOUS STANDARDS	
60	ROAD STD. SHEET MH	MISCELLANEOUS STANDARDS	11-2-76 R-10-2-76
61	ROAD STD. SHEET MI	MISCELLANEOUS STANDARDS	
62	ROAD STD. SHEET MJ	MISCELLANEOUS STANDARDS	5-15-81 R-2-2-81
63	ROAD STD. SHEET MK	MISCELLANEOUS STANDARDS	
64	ROAD STD. SHEET ML	MISCELLANEOUS STANDARDS	
65	ROAD STD. SHEET MM	MISCELLANEOUS STANDARDS	
66	ROAD STD. SHEET MN	MISCELLANEOUS STANDARDS	
67	ROAD STD. SHEET MO	MISCELLANEOUS STANDARDS	
68	ROAD STD. SHEET MP	MISCELLANEOUS STANDARDS	
69	ROAD STD. SHEET MQ	MISCELLANEOUS STANDARDS	
70	ROAD STD. SHEET MR	MISCELLANEOUS STANDARDS	12-22-80 R-10-1-80
71	ROAD STD. SHEET MS	MISCELLANEOUS STANDARDS	
72	ROAD STD. SHEET MT	MISCELLANEOUS STANDARDS	
73	ROAD STD. SHEET MU	MISCELLANEOUS STANDARDS	
74	ROAD STD. SHEET MV	MISCELLANEOUS STANDARDS	
75	ROAD STD. SHEET MW	MISCELLANEOUS STANDARDS	
76	ROAD STD. SHEET MX	MISCELLANEOUS STANDARDS	4-9-72 R-2-2-72
77	ROAD STD. SHEET MY	MISCELLANEOUS STANDARDS	
78	ROAD STD. SHEET MZ	MISCELLANEOUS STANDARDS	
79	ROAD STD. SHEET NA	STANDARD REINF. CONCRETE BOX CULVERTS	
80	ROAD STD. SHEET NB	STANDARD REINF. CONCRETE BOX CULVERTS	
81	ROAD STD. SHEET NC	GUARD RAIL CLASS	
82	ROAD STD. SHEET ND	GUARD RAIL CLASS	
83	ROAD STD. SHEET NE	GUARD RAIL CLASS GA or GST	
84	ROAD STD. SHEET NF	ALUMINUM GUARD RAIL DETAILS	5-21-82 R-4-1-82
85	ROAD STD. SHEET NG	STEEL TUBE GUARD RAIL DETAILS	5-21-82 R-4-1-82
86	ROAD STD. SHEET NH	STEEL TUBE GUARD RAIL DETAILS	
87	ROAD STD. SHEET NI	GUARD RAIL BURRED ENDS	5-21-82 R-4-1-82
88	ROAD STD. SHEET NJ	TEMPORARY CONCRETE BARRIER	5-21-82 R-4-1-82
89	ROAD STD. SHEET NK	TRAFFIC SIGN DETAILS	6-3-81 R-4-1-81
90	ROAD STD. SHEET NL	TRAFFIC SIGN DETAILS	6-3-81 R-4-1-81
91	ROAD STD. SHEET NM	STANDARD DETOUR SIGNS	
92	ROAD STD. SHEET NN	STANDARD DETOUR SIGNS	
93	ROAD STD. SHEET NO	STANDARD DETOUR SIGNS	
94	ROAD STD. SHEET NP	STANDARD DETOUR SIGNS	6-10-80 R-5-1-80
95	ROAD STD. SHEET NQ	STANDARD DETOUR SIGNS	8-25-81 R-5-5-81
96	ROAD STD. SHEET NR	STANDARD DETOUR SIGNS	10-20-80 R-4-1-80
97	ROAD STD. SHEET NS	STANDARD DETOUR SIGNS	5-16-77 R-3-1-77
98	ROAD STD. SHEET NT	STANDARD DETOUR SIGNS	5-16-77 R-3-1-77
99	ROAD STD. SHEET NU	STANDARD DETOUR SIGNS	
100	ROAD STD. SHEET NV	STANDARD DETOUR SIGNS	

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	IND.	SS-221(2)	1960	2	46

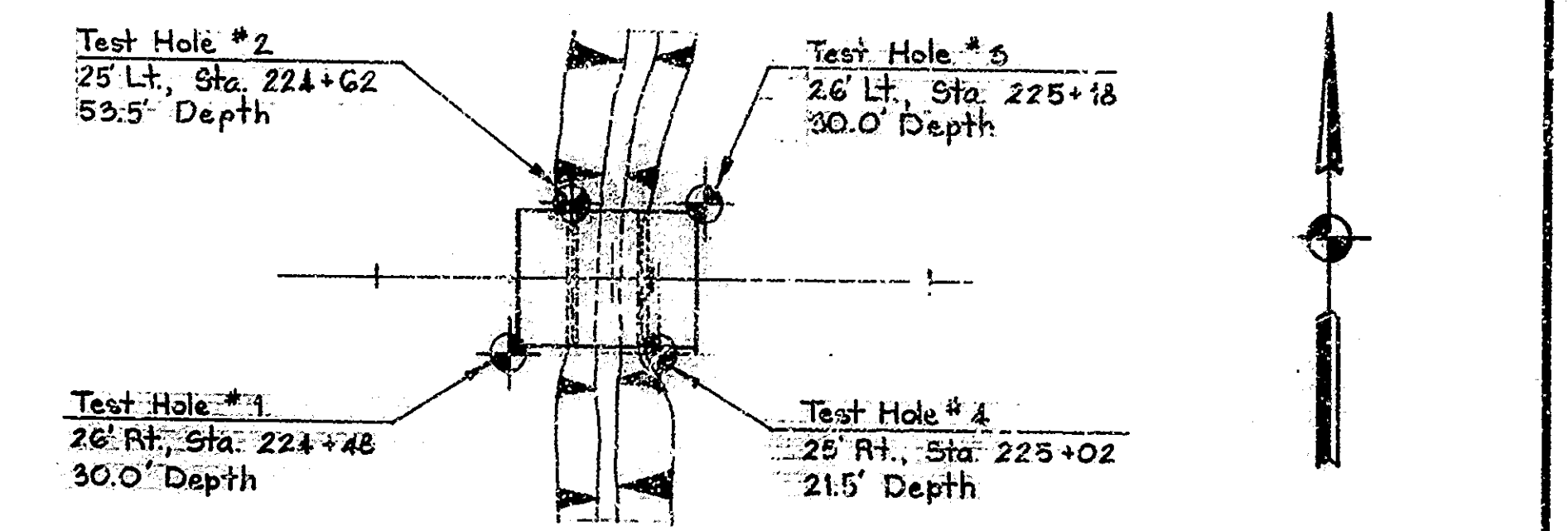
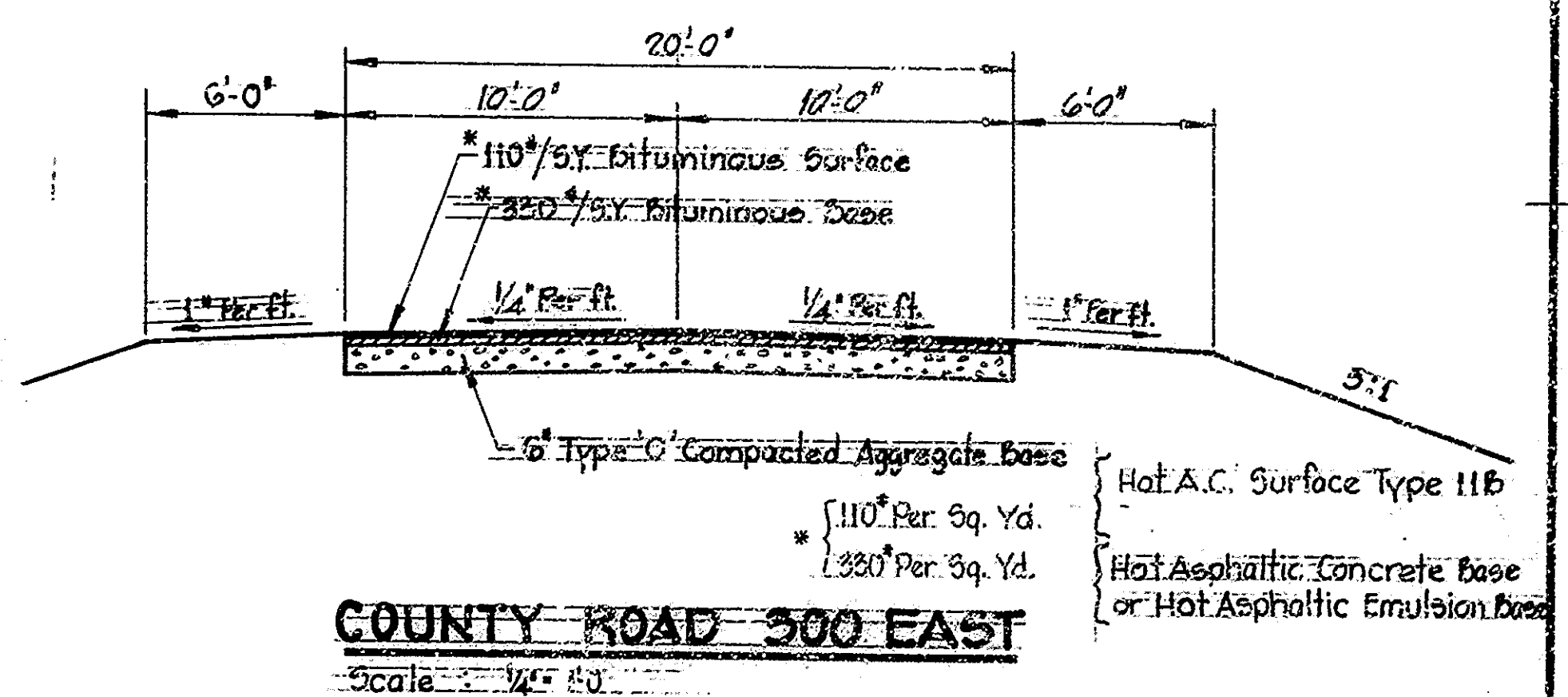


TYPICAL CUT SECTION

LINE "Br-A" ST. RT. 213
Scale: 1/4" = 1'-0"

TYPICAL FILL SECTION

TEST BORING NO.	T.B. No. 1		T.B. No. 2		T.B. No. 3		T.B. No. 4					
STATION ("Br-A")	224+48		224+62		225+18		225+02					
OFFSET	26' Rt.		25' Lt.		26' Lt.		25' Rt.					
GROUND ELEV.	825.0		823.0		823.0		825.5					
	Sample No.	N. Elev.	Description	Sample No.	N. Elev.	Description	Sample No.	N. Elev.	Description			
	1	30	Gray Moist Very Stiff Clay Brown to Gray Below 3.0'	1	24	Brown Moist Very Stiff Clay	1	23	Dark Brown Moist Stiff to Very Stiff Clay with trace Organics			
	2	8170 16		2	8165 19		2	8175 17				
	3	45		3	8115 25	3	8115 46	3		23	Brown to Gray Below 7.0'	
	4	8110 26	Brown to Gray Slightly Moist Hard Silty Clay Gray and Very Stiff Below 9.0'	4	8040 40	Brown Moist Very Stiff to Hard Silty Clay	4	8115 34	Brown Moist Hard Silty Clay			
	5	22		5	8070 34		5	8070 34		5	22	Gray Moist Very Stiff Clay
	6	7950 21	Gray Moist Very Stiff Clay	6	7930 19	Ground Water 20.0'	6	25	Gray Moist Very Stiff Clay			
	7	27		7	7930 22		7	7930 22		7	21	Gray Moist Very Stiff Clay
	8	26		8	7940 29	8	20	8	20	Gray Moist Very Stiff Clay		
			End Of Boring Depth Of Boring: 30.0'	9	17	End Of Boring Depth Of Boring: 30.0'	9	18	End Of Boring Depth Of Boring: 30.0'			
				10	53		10	53		10	53	Gray Moist Very Stiff Clay
				11	7675 35		11	35		11	35	Gray Moist Very Stiff Clay
				12	39		12	39		12	39	
				13	35		13	35		13	35	



TEST HOLE PLAN - 1" = 50'
SOIL BORINGS
TYPICAL CROSS SECTIONS
SCALE: AS NOTED

Note:
 ▼ Ground Water Level
 N = Number of blows req'd. to drive a 140 lb. weight falling 50' through a 2" O.D. split spoon sampler 12" by means of a 140 lb. weight falling 50'

RECOMMENDED FOR APPROVAL
 JULY 31, 1960
 PROFESSIONAL ENGINEER

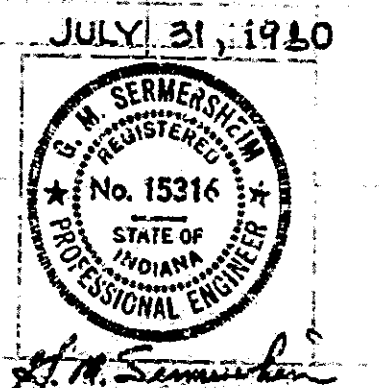
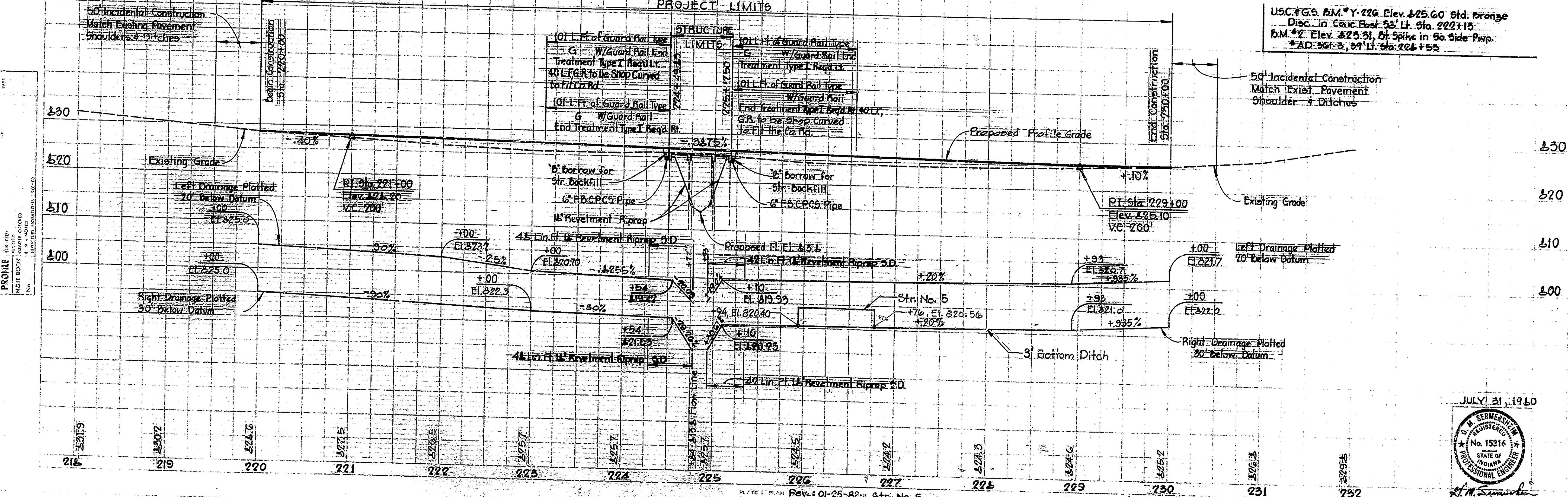
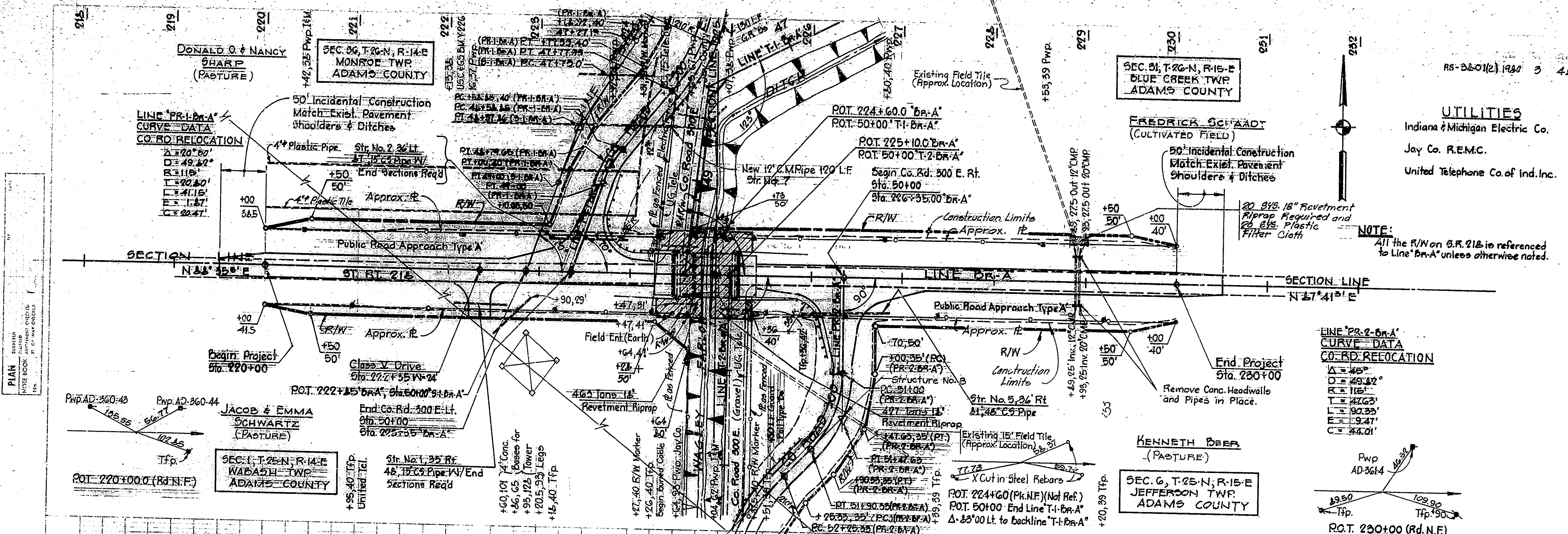
UTILITIES
Indiana & Michigan Electric Co.
Jay Co. R.E.M.C.
United Telephone Co. of Ind. Inc.

NOTE:
All the R/W on S.R. 218 is referenced to Line 'Br-A' unless otherwise noted.

LINE 'PR-2-Br-A'
CURVE DATA
CO-ORD. RELOCATION
K = 45'
D = 49.32'
R = 116'
T = 47.63'
L = 30.33'
E = 9.47'
C = 34.01'

Pwp AD 3614
Tfp 190
ROT 230+00 (Rd. N.F.)

USC # G.S. B.M. * Y-226 Elev. 325.60 Std. Bronze
Disc. in Conc. Base 38' Lt. Sta. 222+15
B.M. # 2 Elev. 325.31, 2' Spike in So. Side Pwp.
* AD 361.3, 34' Lt. Sta. 224+55



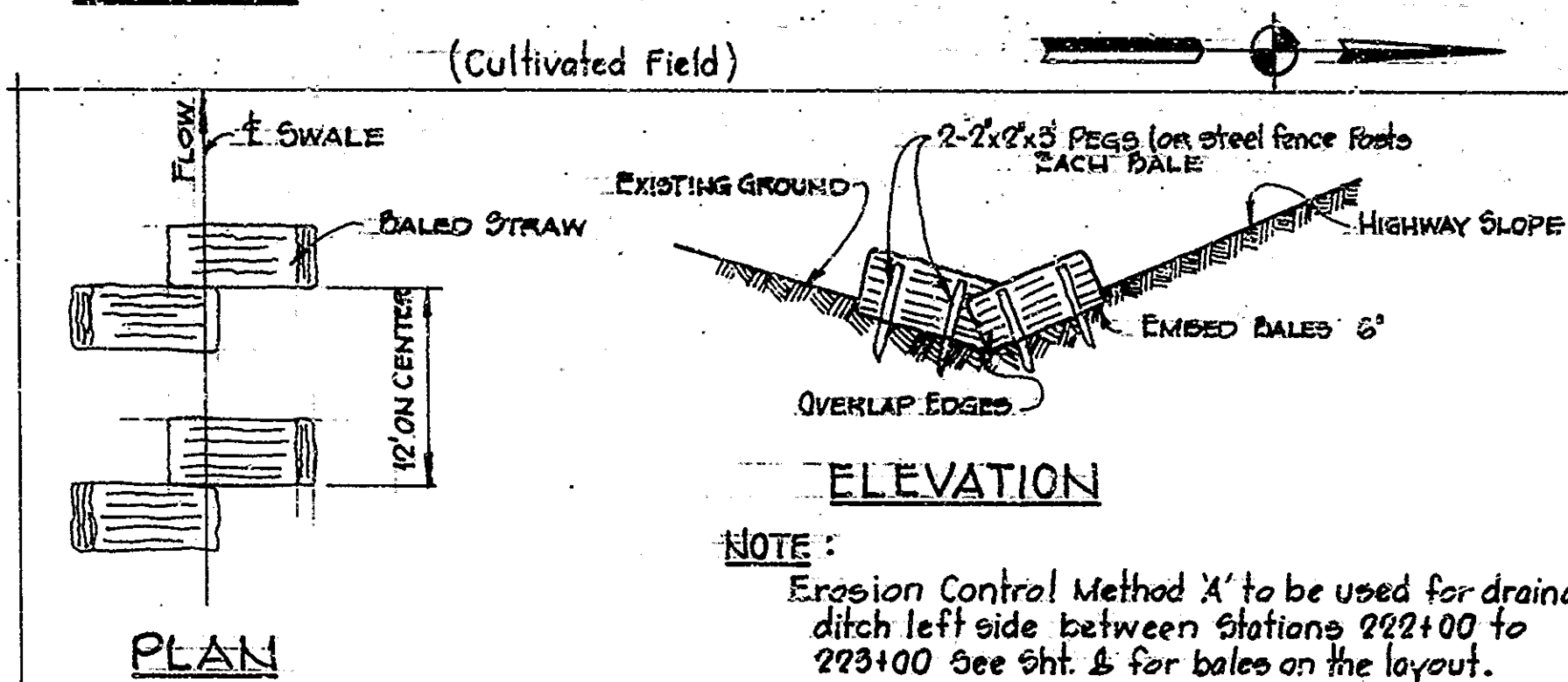
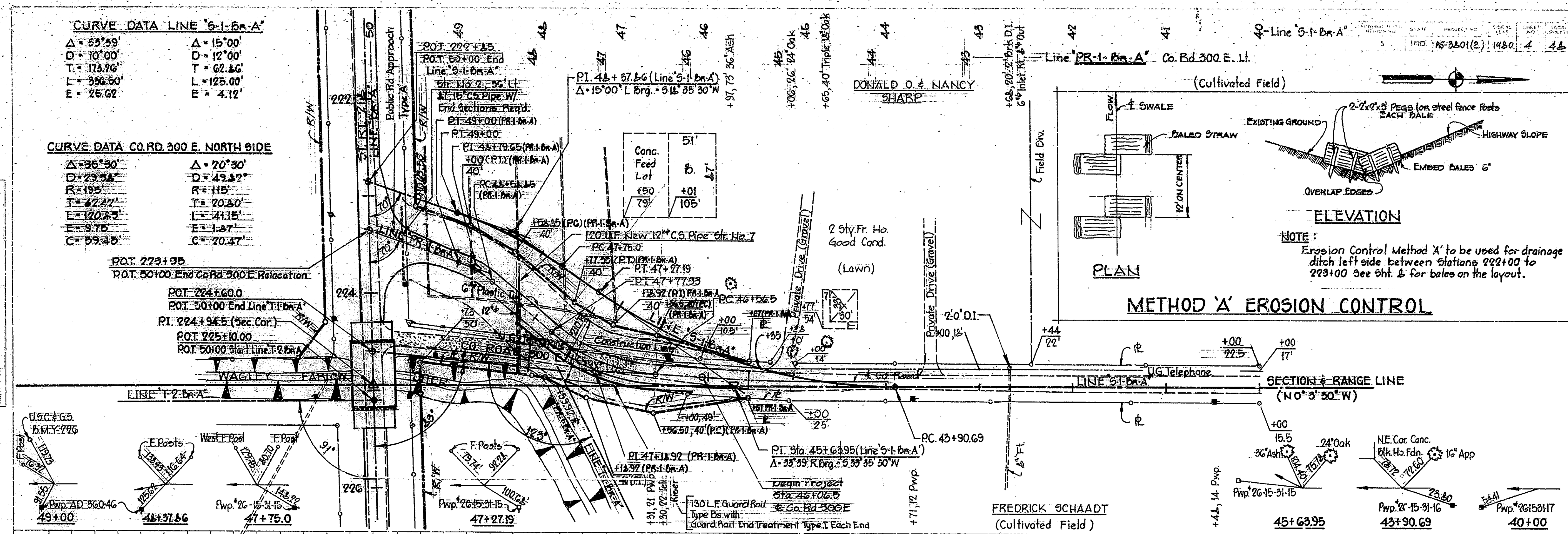
CURVE DATA LINE 'S-1-B-A'

$\Delta = 53^{\circ}59'$ $\Delta = 15^{\circ}00'$
 $D = 10^{\circ}00'$ $D = 12^{\circ}00'$
 $T = 173.76'$ $T = 62.86'$
 $L = 330.50'$ $L = 125.00'$
 $E = 25.62'$ $E = 4.12'$

CURVE DATA CO. RD. 300 E. NORTH SIDE

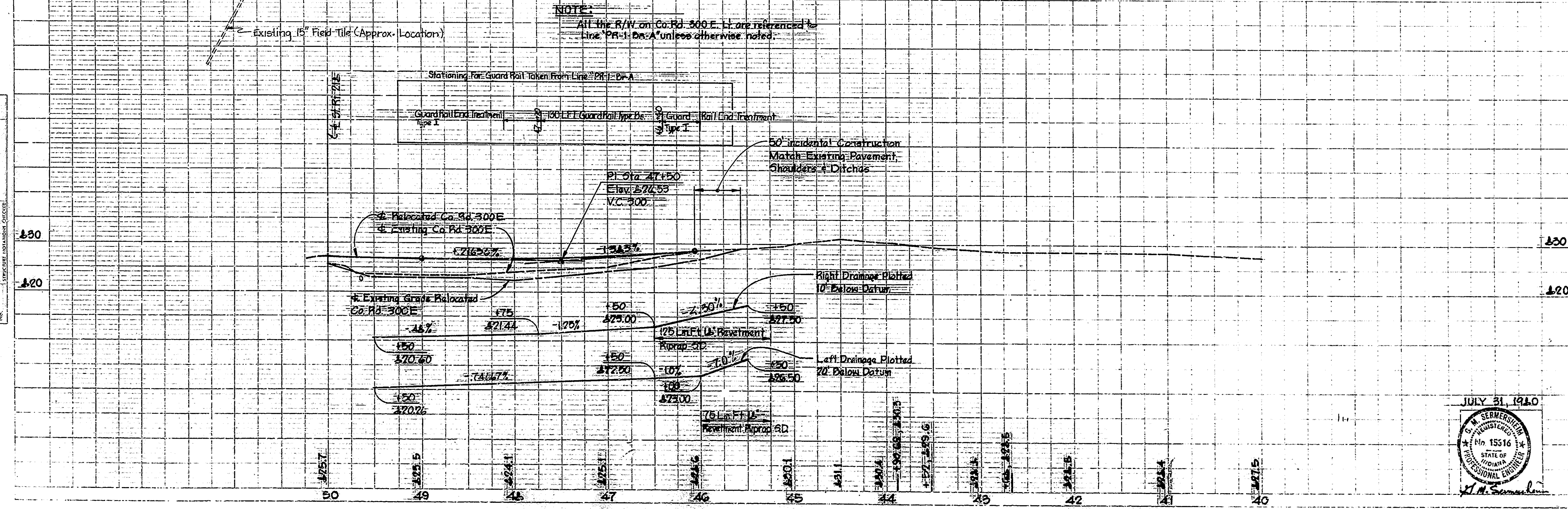
$\Delta = 96^{\circ}30'$ $\Delta = 20^{\circ}30'$
 $D = 29.28'$ $D = 49.82'$
 $R = 115'$ $R = 115'$
 $T = 47.47'$ $T = 20.80'$
 $L = 120.82'$ $L = 41.35'$
 $E = 9.76'$ $E = 1.27'$
 $C = 59.45'$ $C = 20.47'$

P.O.T. 223+95
 P.O.T. 50+00 End Co. Rd. 300 E. Relocation
 P.O.T. 224+60.0
 P.O.T. 50+00 End Line T-1-B-A
 P.I. 224+94.5 (Sec. Cor.)
 P.O.T. 225+10.00
 P.O.T. 50+00 Start Line T-2-B-A



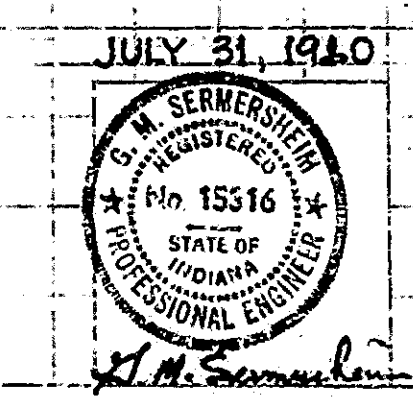
NOTE:
 Erosion Control Method 'A' to be used for drainage ditch left side between Stations 223+00 to 223+00 See Sht. & for bales on the layout.

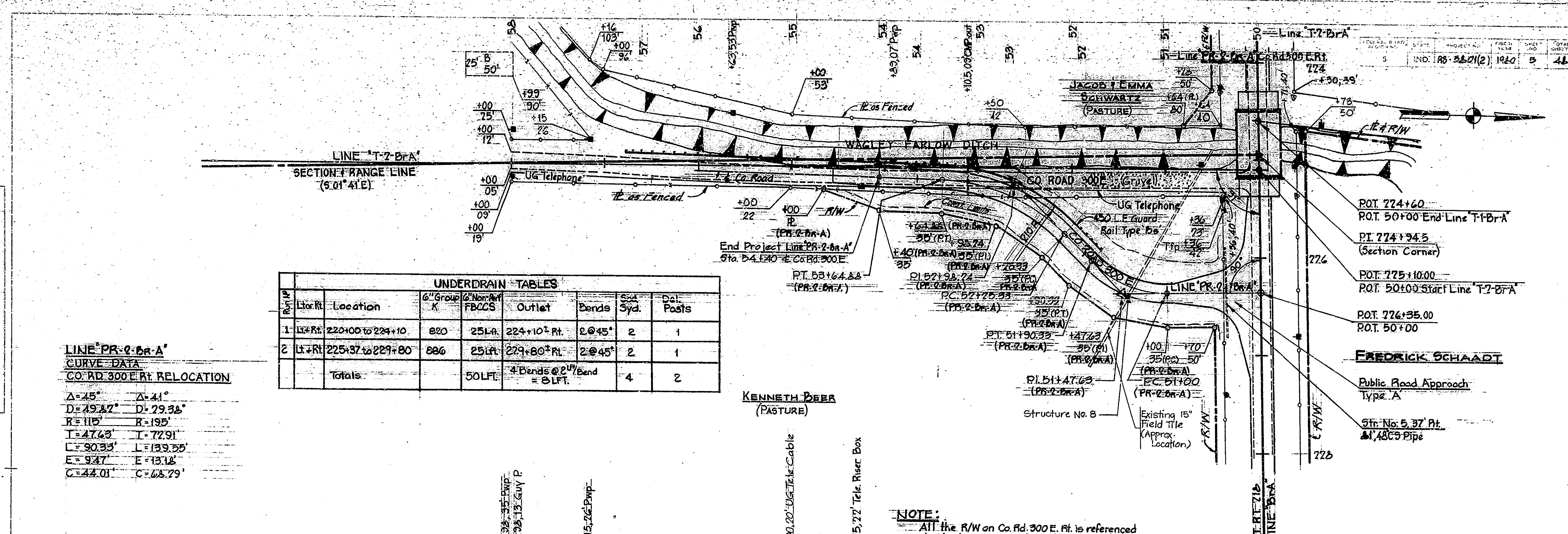
METHOD 'A' EROSION CONTROL



PLAN
 SURVEYED
 NOTE BOOK
 RE. OF WAY CENTER
 No.

PROFILE
 SURVEYED
 NOTE BOOK
 RE. OF WAY CENTER
 No.





UNDERDRAIN TABLES

Sta.	Loc. Rt.	Location	6" Group K	6" Non-Rt. FBCCS	Outlet	Bends	Sta. Syd.	Del. Posts
1	Lt. Rt.	220+00 to 224+10	820	25 L.R.	224+10 ⁺ Rt.	2 @ 45°	2	1
2	Lt. Rt.	225+37 to 229+80	886	25 L.R.	229+80 ⁺ Rt.	2 @ 45°	2	1
Totals					50 L.F.	4 Bends @ 2 1/2 Bend = 8 L.F.	4	2

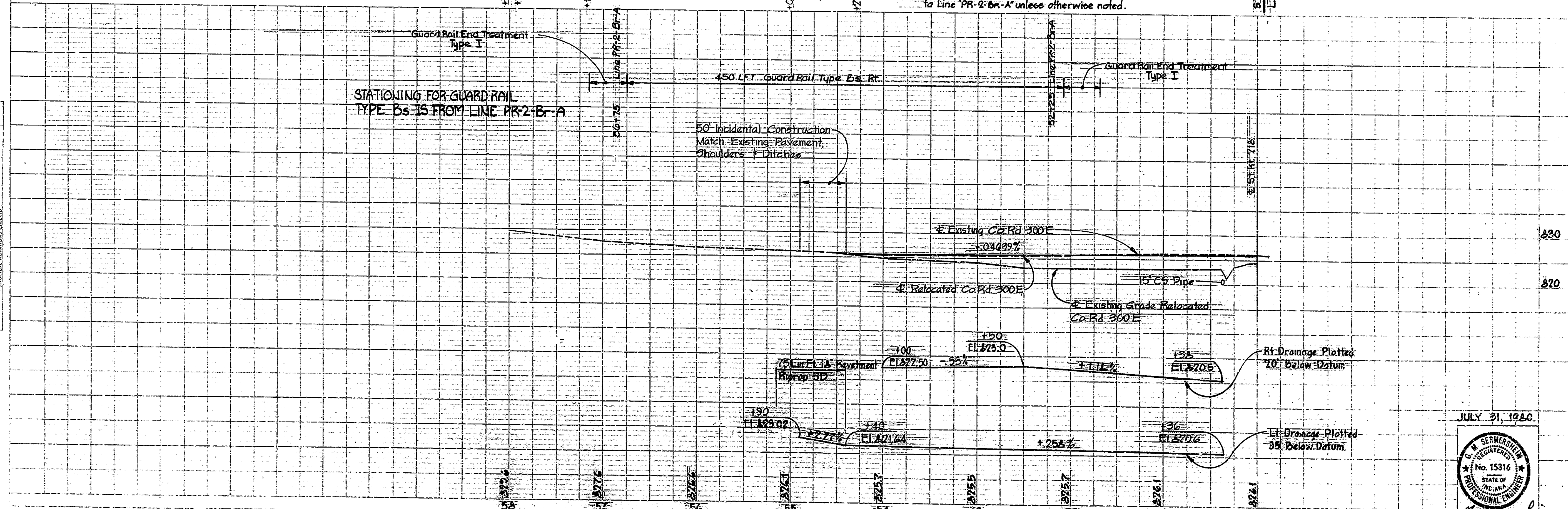
LINE PR-2-Br-A
CURVE DATA
CO. RD. 300 E. RT. RELOCATION

Δ=45° Δ=44°
D=49.27' D=29.38'
R=115' R=195'
T=47.43' T=72.91'
L=90.33' L=139.55'
E=9.47' E=13.18'
C=44.01' C=68.29'

KENNETH DEBR
(PASTURE)

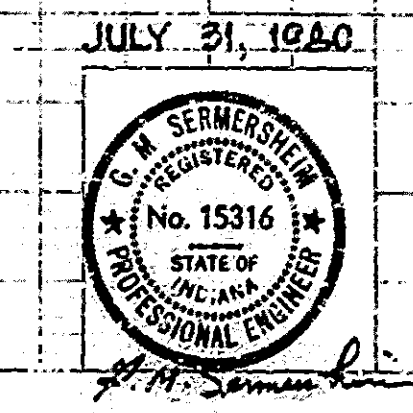
POT. 774+60
POT. 50+00 End Line T-1-Br-A
PI 774+94.5
(Section Corner)
POT. 775+10.00
POT. 50+00 Start Line T-2-Br-A
POT. 776+35.00
POT. 50+00
FREDRICK SCHAADT
Public Road Approach
Type A
Str. No. 5, 37' Rt.
1" 48C9 Pipe

NOTE:
All the R/W on Co. Rd. 300 E. Rt. is referenced to Line PR-2-Br-A unless otherwise noted.



PLAN
SURVEYED BY: []
NOTED BY: []
DATE: []

PROFILE
SURVEYED BY: []
NOTED BY: []
DATE: []



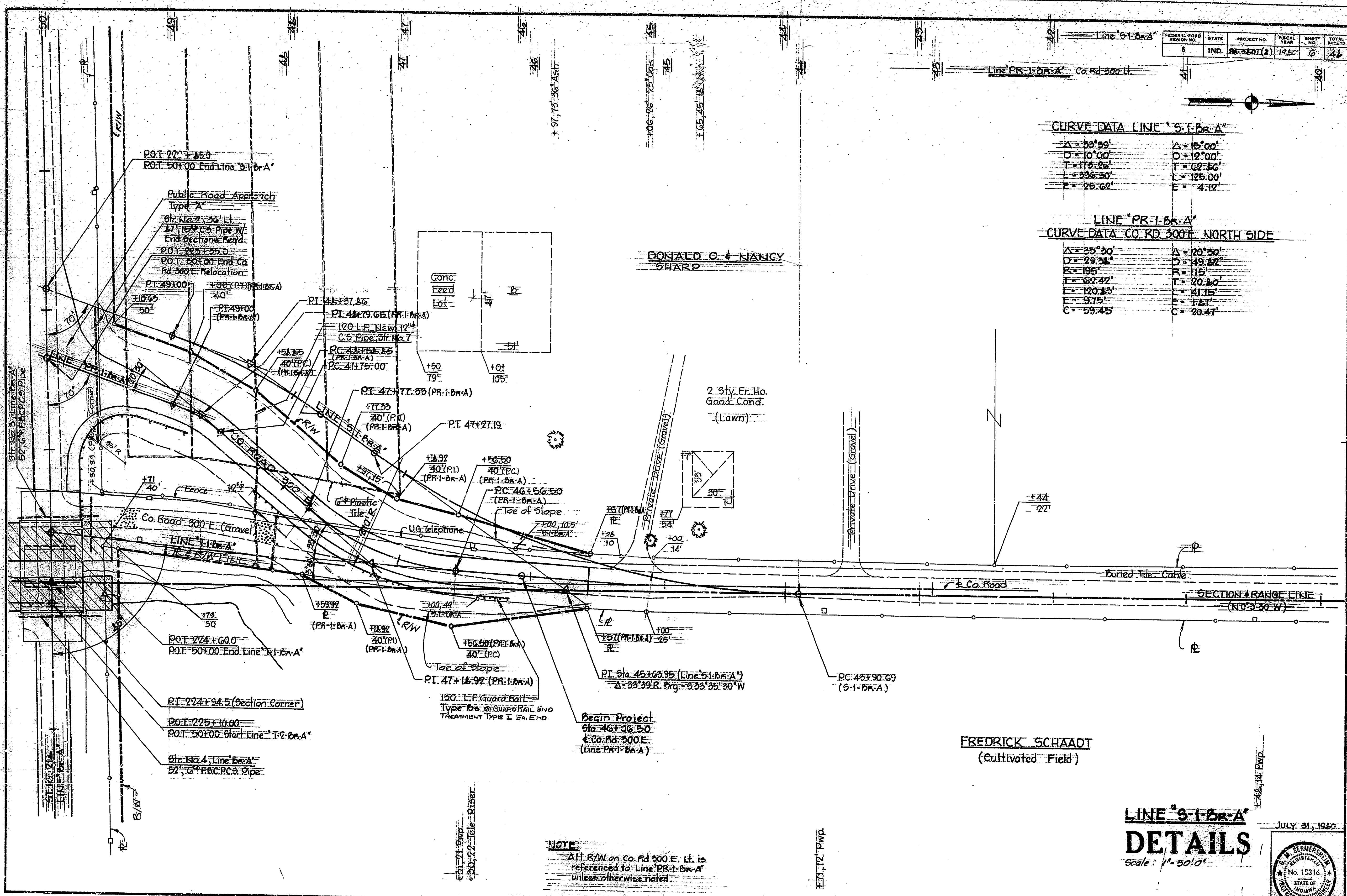
FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	88-3801(2)	1980	6	41

CURVE DATA LINE 'S-1-B-A'

$\Delta = 32^{\circ}59'$	$\Delta = 15^{\circ}00'$
$D = 10^{\circ}00'$	$D = 12^{\circ}00'$
$T = 173.26'$	$T = 62.86'$
$E = 336.50'$	$E = 125.00'$
$C = 25.62'$	$C = 4.12'$

LINE 'PR-1-B-A'
CURVE DATA 'CO. RD. 300 E. NORTH SIDE'

$\Delta = 35^{\circ}50'$	$\Delta = 20^{\circ}50'$
$D = 29.31'$	$D = 49.82'$
$R = 195'$	$R = 115'$
$T = 62.42'$	$T = 20.80'$
$E = 120.83'$	$E = 41.15'$
$C = 59.45'$	$C = 20.47'$



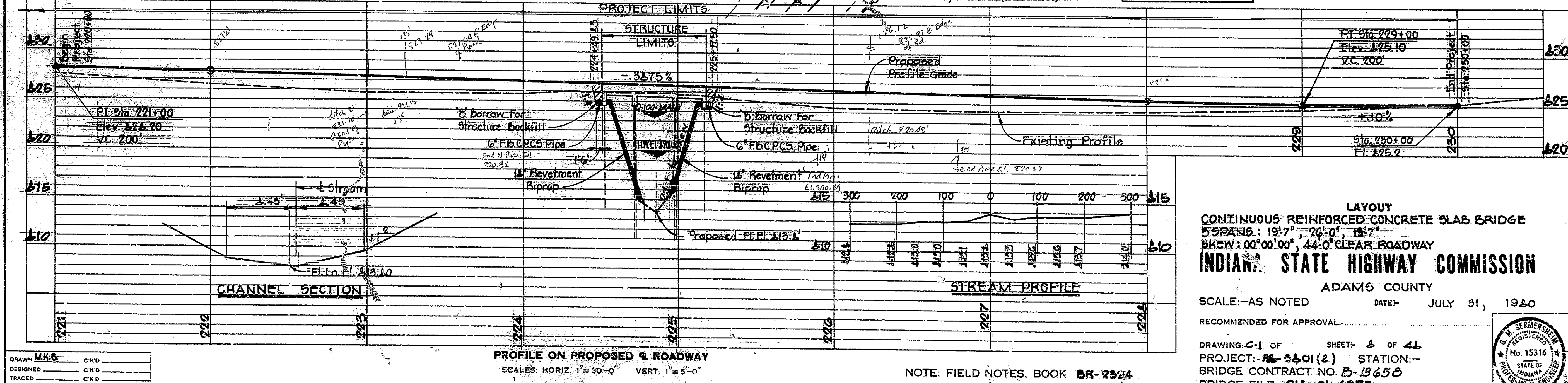
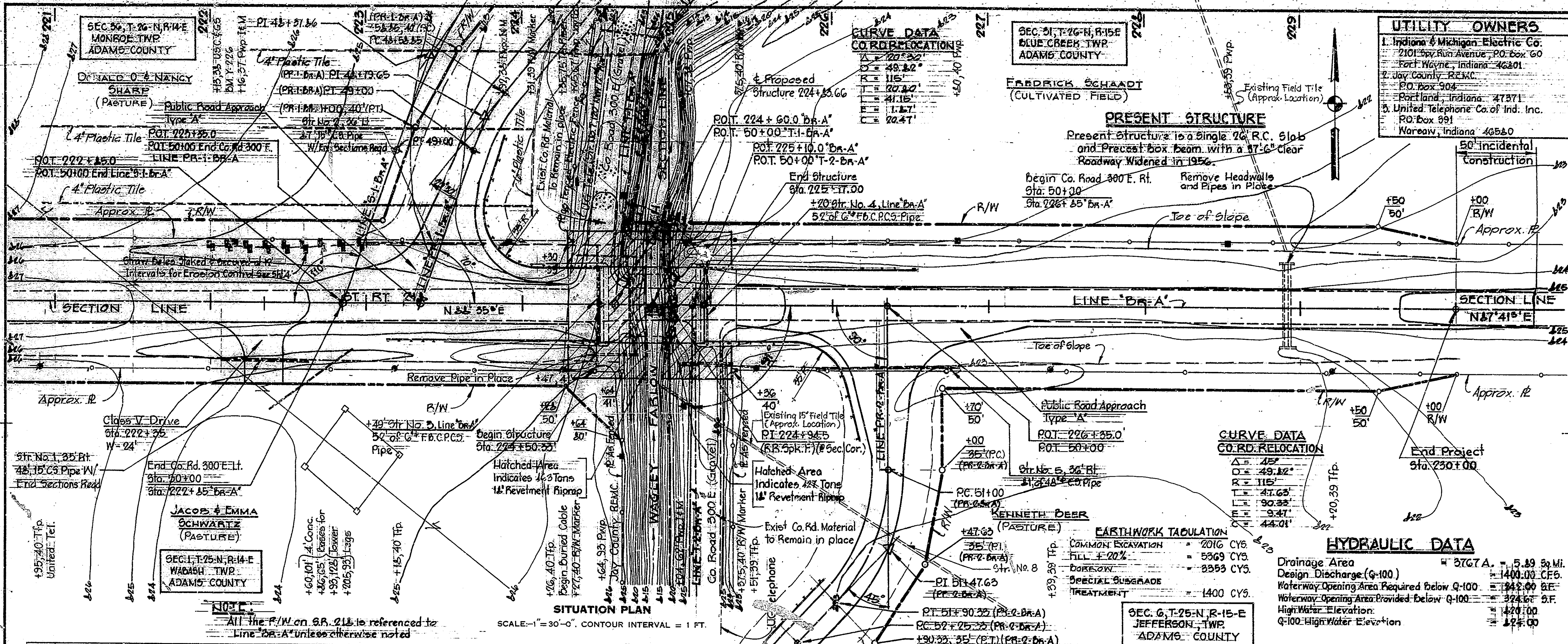
NOTE:
All R/W on Co. Rd 300 E. Lt. is referenced to Line 'PR-1-B-A' unless otherwise noted.

LINE 'S-1-B-A'
DETAILS
Scale: 1"=50' 0"

JULY 31, 1980



Cont. No. B-1365B



LAYOUT
CONTINUOUS REINFORCED CONCRETE SLAB BRIDGE
SPANS: 19'-7", 26'-0", 19'-7"
SKEN: 00°00'00", 44'-0" CLEAR ROADWAY

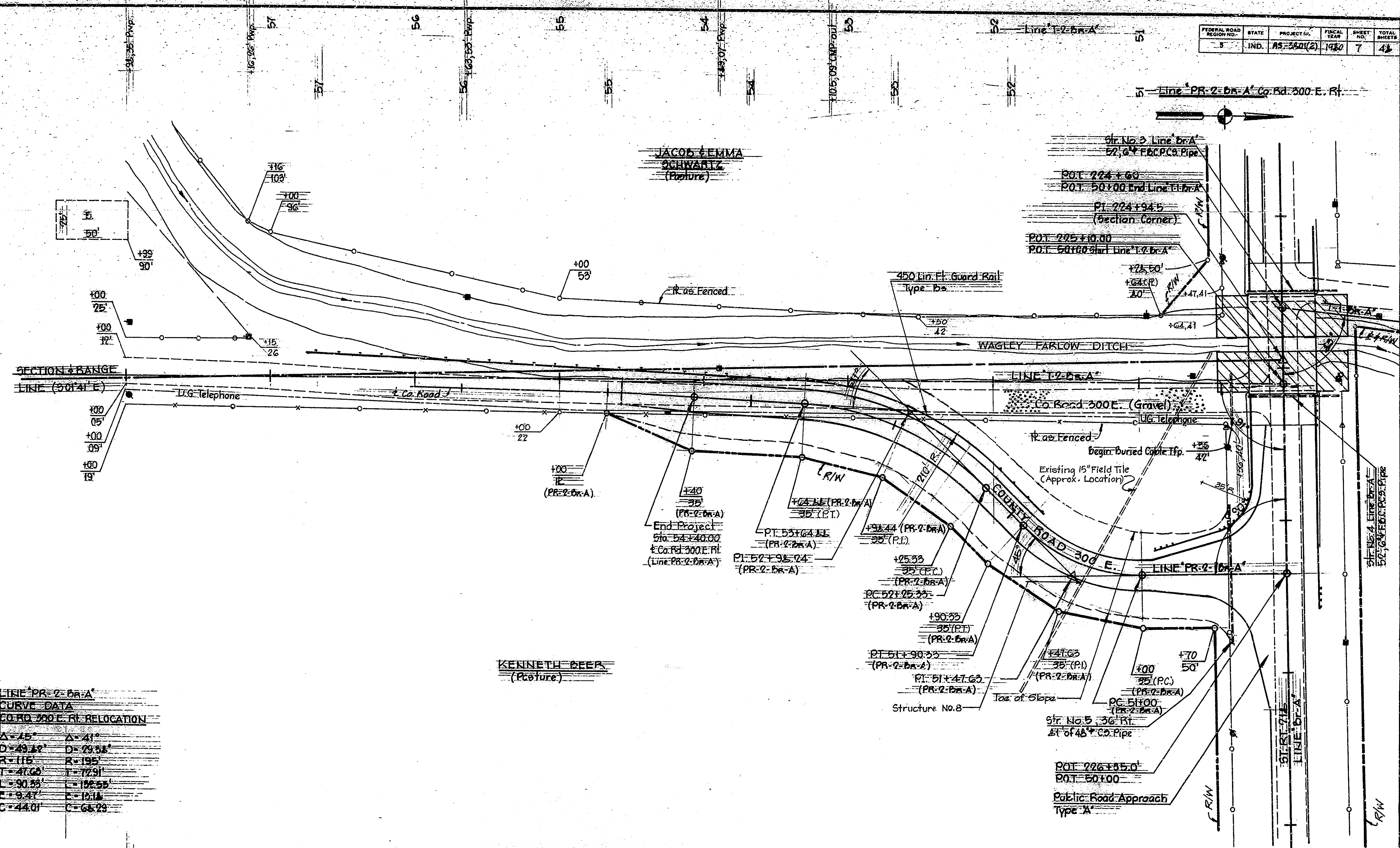
INDIAN STATE HIGHWAY COMMISSION
ADAMS COUNTY
SCALE: AS NOTED DATE: JULY 31, 1980
RECOMMENDED FOR APPROVAL

DRAWING: C-1 OF SHEET: 8 OF 41
PROJECT: 85-3401(2) STATION: BRIDGE CONTRACT NO. B-13650
BRIDGE FILE: 218-01-6373

NOTE: FIELD NOTES, BOOK BR-2324

Rev. 01-25-82; Str. No. 8
Rev. 05-27-81; Field Tiles
Rev. 06-08-81; Delete Str. No. 6, 8, 9; Str. No. 5

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	AS-360(2)	1920	7	43



LINE PR-2-BR-A
CURVE DATA
CO. RD. 300 E. RL. RELOCATION

$\Delta = 45^\circ$	$\Delta = 41^\circ$
$D = 49.24'$	$D = 29.58'$
$R = 115'$	$R = 195'$
$T = 47.63'$	$T = 72.91'$
$L = 90.35'$	$L = 152.55'$
$E = 9.47'$	$E = 12.14'$
$C = 44.01'$	$C = 65.23'$

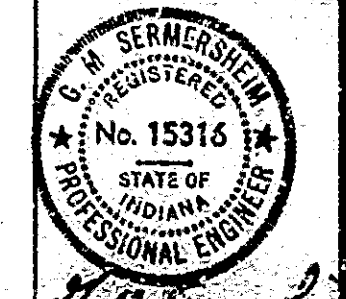
KENNETH DEER
(Platuer)

JACOB FEMMA SCHWARTZ
(Platuer)

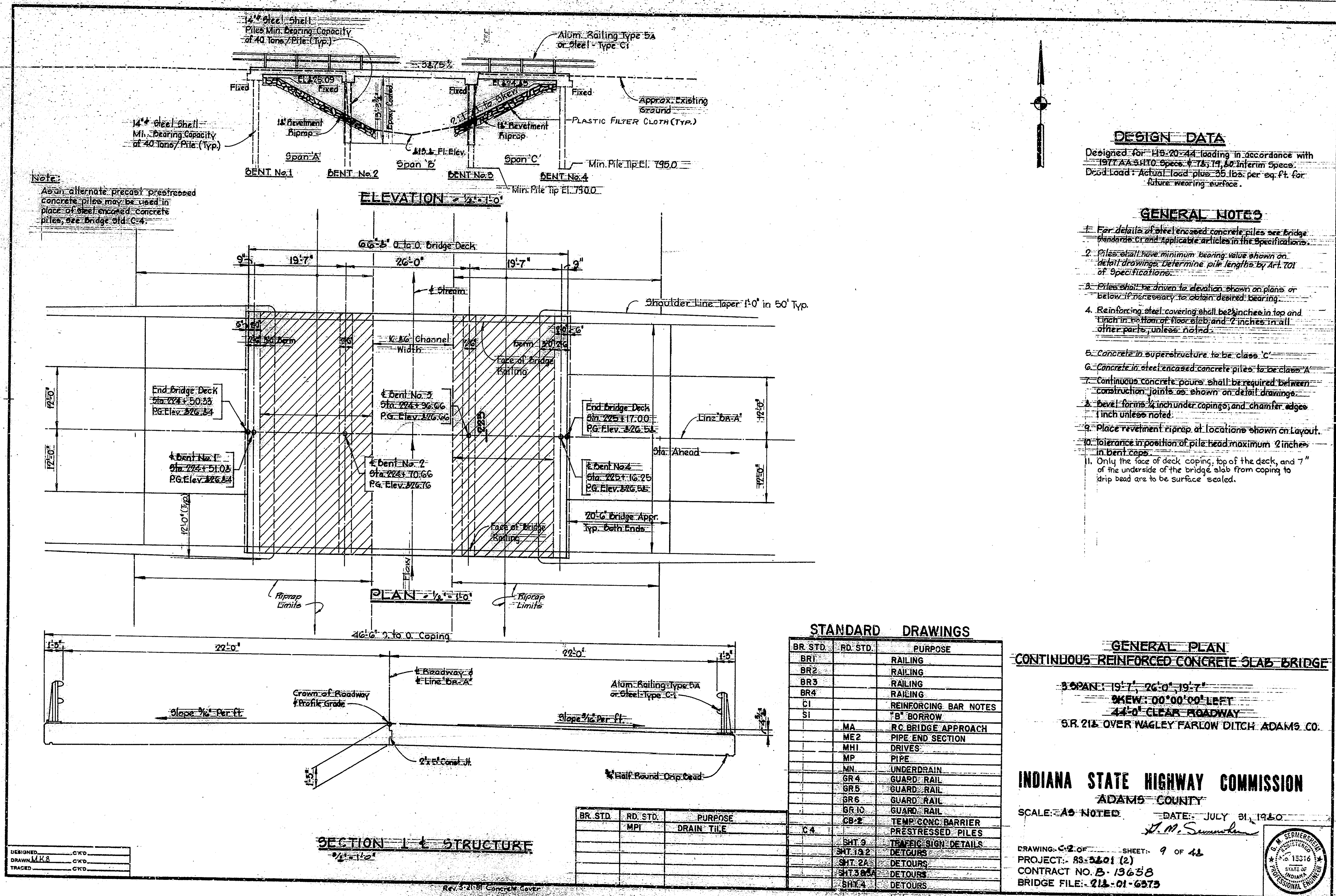
NOTE:
All R/W on Co. Rd. 300 E. Rf. is referenced to Line PR-2-BR-A unless otherwise noted.

LINE T-2-BR-A
DETAILS

JULY 31, 1920



Contr. No. B-13658



Note:
 An alternate precast prestressed concrete piles may be used in place of steel encased concrete piles, see Bridge Std. C-4.

DESIGN DATA

Designed for HS-20-44 loading in accordance with
 1977 AASHTO Specs. & 75, 17, 50 Interim Specs.
 Dead Load - Actual load plus 35 lbs. per sq. ft. for
 future wearing surface.

GENERAL NOTES

1. For details of steel encased concrete piles see Bridge Standards and Applicable articles in the Specifications.
2. Piles shall have minimum bearing value shown on detail drawings. Determine pile lengths by Art. 701 of Specifications.
3. Piles shall be driven to elevation shown on plans or below if necessary to obtain desired bearing.
4. Reinforcing steel covering shall be 2 inches in top and 1 inch in bottom of floor slab; and 2 inches in all other parts, unless noted.
5. Concrete in superstructure to be class 'C'.
6. Concrete in steel encased concrete piles to be class 'A'.
7. Continuous concrete pours shall be required between construction joints as shown on detail drawings.
8. Bevel forms 1/4 inch under copings; and chamfer edges 1 inch unless noted.
9. Place riprap at locations shown on Layout.
10. Tolerance in position of pile head maximum 2 inches in bent caps.
11. Only the face of deck coping, top of the deck, and 7" of the underside of the bridge slab from coping to drip bead are to be surface sealed.

STANDARD DRAWINGS

BR. STD.	RD. STD.	PURPOSE
BR1		RAILING
BR2		RAILING
BR3		RAILING
BR4		RAILING
CI		REINFORCING BAR NOTES
SI		"B" BORROW
MA		R.C. BRIDGE APPROACH
ME2		PIPE END SECTION
MH1		DRIVES
MP		PIPE
MN		UNDERDRAIN
GR4		GUARD RAIL
GR5		GUARD RAIL
GR6		GUARD RAIL
GR10		GUARD RAIL
CB-2		TEMP. CONC. BARRIER
C4		PRESTRESSED PILES
SHT 9		TRAFFIC SIGN DETAILS
SHT 19.2		DETOURS
SHT 2A		DETOURS
SHT 30.5A		DETOURS
SHT 4		DETOURS
	MPI	DRAIN TILE

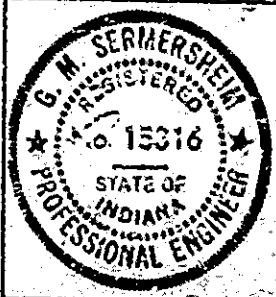
GENERAL PLAN
CONTINUOUS REINFORCED CONCRETE SLAB BRIDGE

3 SPAN: 19'-7", 26'-0", 19'-7"
 SKEW: 00°00'00" LEFT
 44'-0" CLEAR ROADWAY
 S.R. 21 1/2 OVER WAGLEY FARLOW DITCH, ADAMS CO.

INDIANA STATE HIGHWAY COMMISSION
ADAMS COUNTY

SCALE: AS NOTED DATE: JULY 31, 1980

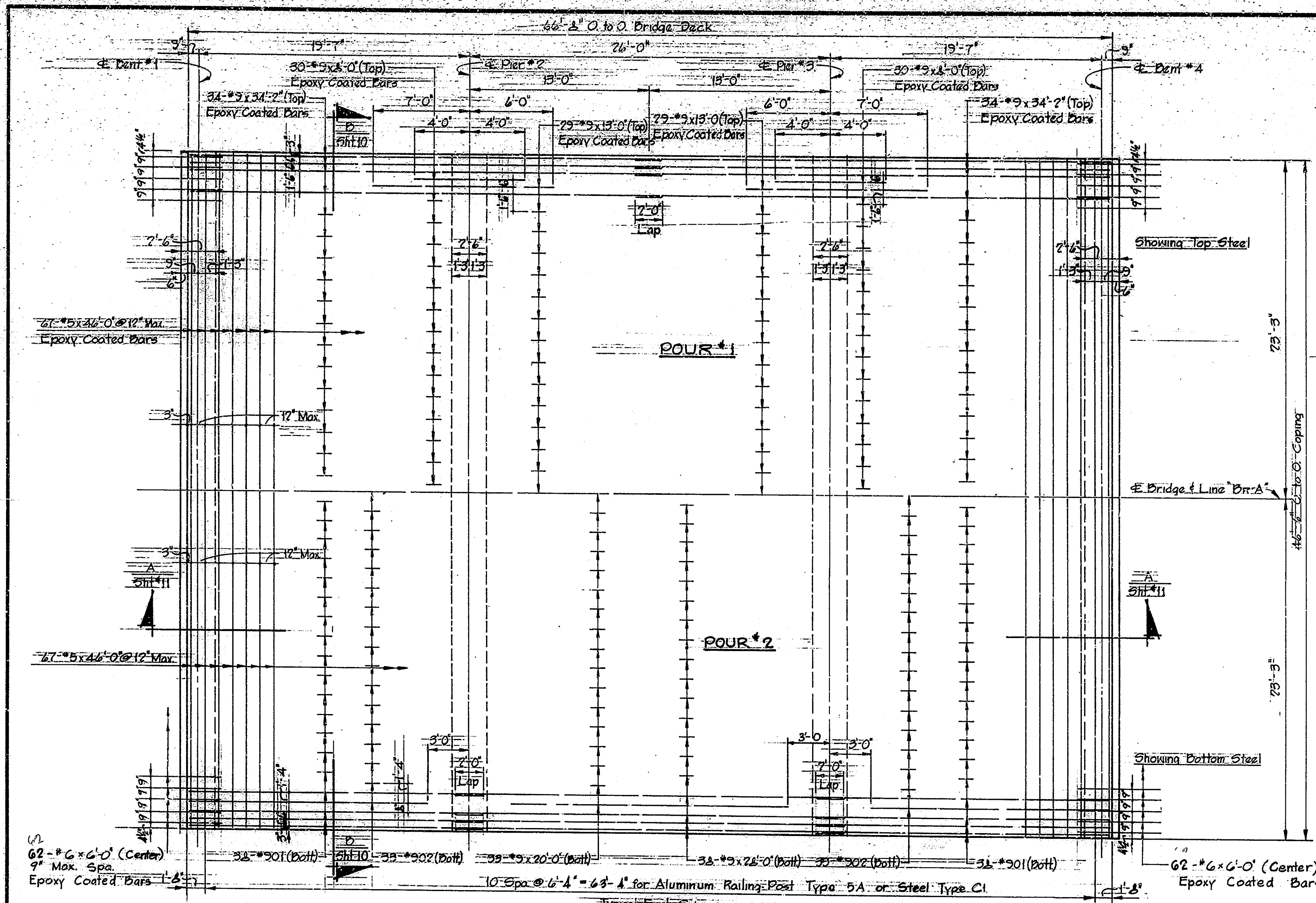
DRAWING: C-2 OF SHEET: 9 OF 48
 PROJECT: 89-3601 (2)
 CONTRACT NO. B-13658
 BRIDGE FILE: 212-01-6373



DESIGNED: CKD
 DRAWN: M.K.B. CKD
 TRACED: CKD

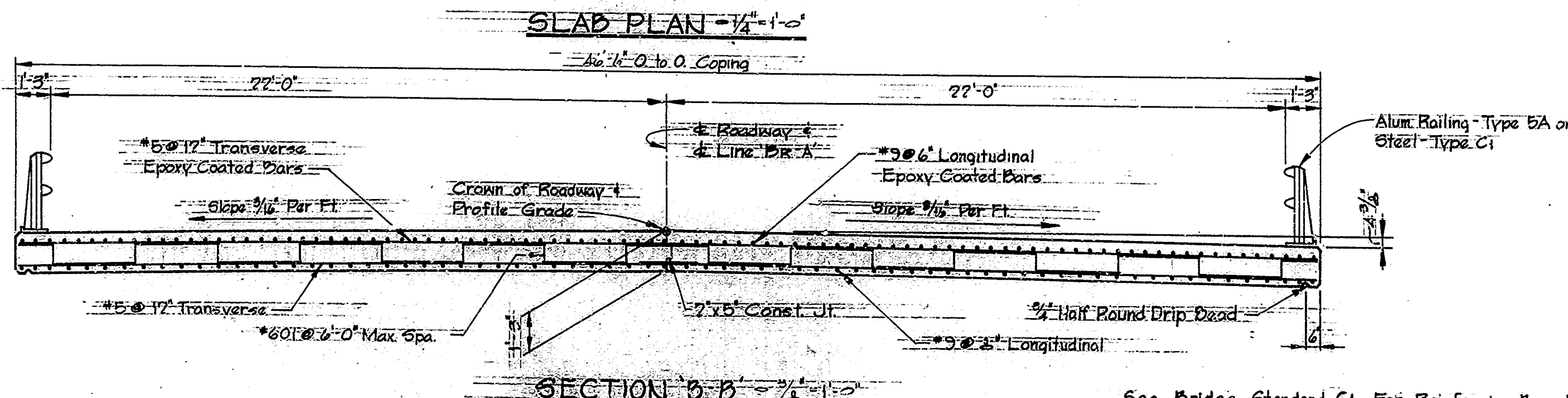
SECTION I - STRUCTURE

Rev. 5-81-81 Concrete Cover
 Rev. 6-8-82 Min. Pile Tip El.



GENERAL NOTES

1. The top reinforcing in the deck shall be securely tied down to the deck forms and/or the beams to prevent lifting during concrete placement.
2. The longitudinal construction joint may be eliminated subject to the approval of the Engineer.



SUPERSTRUCTURE DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE: -

DATE: JULY 31, 1980

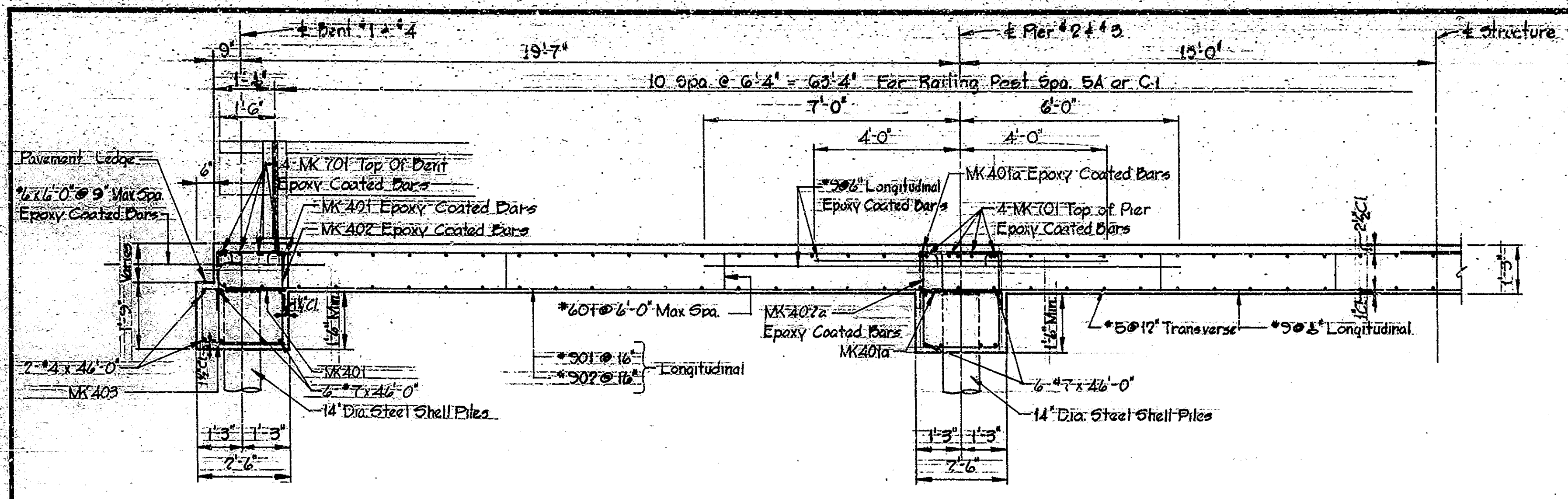
L. M. Semmel

DRAWING: C-2 OF SHEET: 10 OF 42
 PROJECT: PS-5501(2)
 CONTRACT NO. B-1365B
 BRIDGE FILE: 211-216-215

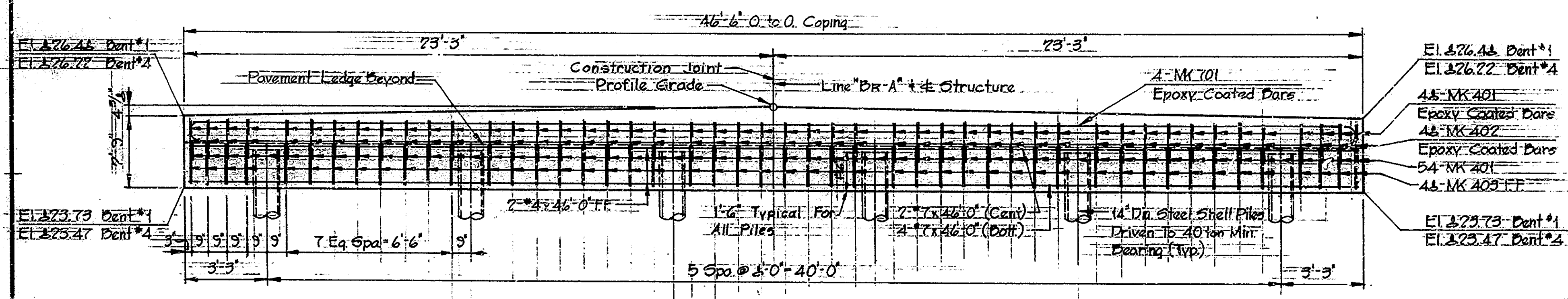


See Bridge Standard C1 For Reinforcing Bar Notes

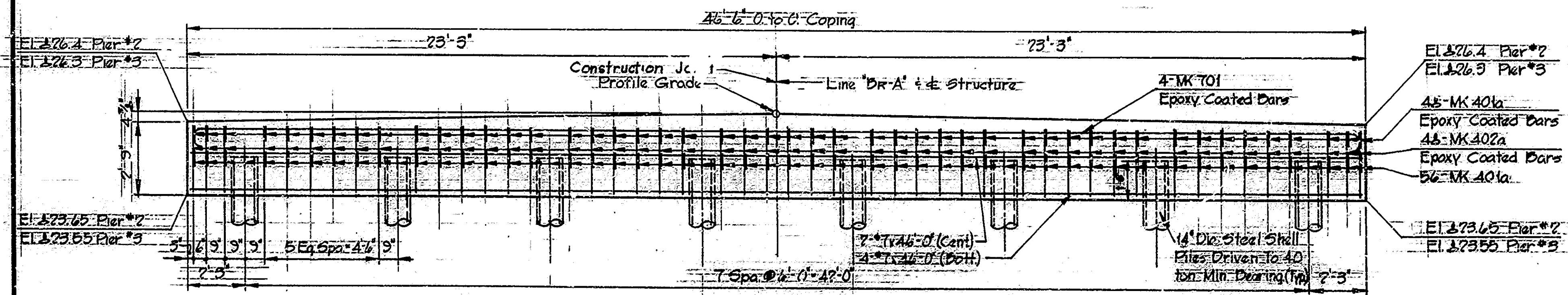
DESIGNED:	CKD
DRAWN:	CKD
IN CHARGE:	CKD



HALF LONGITUDINAL SECTION "A-A"
SCALE: 1/2" = 1'-0"



SECTION THROUGH DENT #1 AND #4
SCALE: 1/4" = 1'-0"



SECTION THROUGH PIER #2 AND #3
SCALE: 1/4" = 1'-0"

DESIGN DATA
 Unit Stresses: $f_c = 20,000 \text{ psi}$
 $f_s = 17,000 \text{ psi}$
 Live Load: HS 20-44 plus impact and distribution of loads in accordance with 1977 AASHTO Specifications
 Dead Load: Increased 55% sq. ft. of roadway for future wearing surface. Slab designed with 1" wearing surface.
 Maximum Dead Load Deflection:
 Span A or C = 1/62 (.05%)
 Span B = 1/6 (.05%)

BILL OF MATERIAL			
SUPERSTRUCTURE			
MARK OR SIZE	LENGTH	NO. REQ'D	WEIGHT
*9	2'-0"	60	
*9	13'-0"	56	
*9	34'-2"	63	
Total Epoxy Coated #9 Bars			12,095*
*701	27'-7"	16	
Total Epoxy Coated #7 Bars			1,556*
*6	6'-0"	124	
Total Epoxy Coated #6 Bars			1117*
*5	46'-0"	67	
Total Epoxy Coated #5 Bars			3,215*
*401	2'-9"	96	
*401a	3'-8"	96	
*402	7'-6"	96	
*402a	8'-0"	96	
Total Epoxy Coated #4 Bars			1,379*
Total Epoxy Coated Reinf. Sll.			19,362*
*901	22'-4"	76	
*902	18'-4"	66	
*9	28'-0"	38	
*9	20'-0"	38	
Total Standard #9 Bars			15,747*
*7	46'-0"	24	
Total Standard #7 Bars			2,297*
*601	30'-4"	24	
Total Standard #6 Bars			1,093*
*5	46'-0"	67	
Total Standard #5 Bars			3,215*
*401	2'-9"	108	
*401a	3'-8"	112	
*408	6'-0"	96	
*4	46'-0"	4	
Total Standard #4 Bars			919*
Total Standard Reinf. Sll.			23,261*
MISCELLANEOUS			
26-14" Dia. Steel Shell Piles x 58'-0"			1540 L.F.
Railing Type '5A' or 'C'			133.7 L.F.
CLASS 'C' CONCRETE			
Pour #1			86.5 C.Y.
Pour #2			86.5 C.Y.

DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE: -
 DATE: JULY 31, 1980
 DRAWING: C-40P SHEET: 11 OF 46
 PROJECT: RS-2201(A)
 CONTRACT NO. B-1365B
 BRIDGE FILE: 215-21-6073



DESIGNED: CKD
 DRAWN: CKD
 TRACED: CKD

MK 901 x 22'-4"
 MK 902 x 13'-2"

see Bridge 9th C1 For Reinforcing Bar Notes
 Rev. 5/2/81 Concrete Cover

ITEM	CONCRETE				STRUCTURE		QUANTITIES																				
	CLASS C	CLASS A	CLASS B		CONCRETE RAILING CLASS C	REINF. STEEL TOTAL	STRUCT. STEEL ***	ANCHOR RODS. IK-AR	ANCHOR PLATES IK-AP	UNTREATED TIMBER	TREATED TIMBER	STEEL ENCASED PILES	STEEL H BEARING	CAST IRON DRAIN PIPE	CAST IRON GRATES, BASINS & FITTINGS	RAILING TYPE, PA OR GI	EXP JOINT TYPE	EXP JOINT CLASS	CONC. F.R. MEMBERS	APPLIED SURF. MEMBRANE	BITUM. MIXTURE FOR APPROACHES	MOD. P.C. CONCRETE SURFACE	DECK DRAIN	SURFACE SEAL	EPOXY COATED REINF. STEEL	14" EPOXY COATED PILE SHIELD	
	CU. YDS.	CU. YDS.	CU. YDS.	IN. FTG.	CU. YDS.	LBS.	LBS.	EACH	EACH	NO	NO	NO	NO	LBS.	LBS.	LN. FT.	LN. FT.	LN. FT.	SQ. FT.	LN. FT.	TONS	CU. YDS.	EACH	SQ. FT.	STEEL	PILE SHIELD	
Structure	175					22,261						22	1527												3,332	19,362	213
Reinf. Steel for Approach Structures						4762																					
Reinf. Steel for R.C. Bridge Approaches																											
Reinf. Steel for Lip Gutter, Pvm, Tapers, etc.																											
TOTALS	175					22,015						22	1527											3,332	19,362	213	

STRUCT. NO.	LOCATION	APPROACH		STRUCTURES			REMARKS
		DESCRIPTION	KIND	LENGTH LIN. FT.	CONCR. CL. A IN STRS. CU. YDS.	REINF. STEEL LBS.	
1	Sta. 222+35	15"	F.B.C.C.S. Pipe "Gr. D"	45		2	
2	Sta. 225+50	15"	F.B.C.C.S. Pipe "Gr. D"	47		2	
3	Sta. 224+49	6"	F.B.C.C.S. Pipe	52		2	
4	Sta. 225+20	6"	F.B.C.C.S. Pipe	50		2	
5	Sta. 222+35	48"	F.B.C.C.S. Pipe "Gr. A"	41	2.8	2	Pipe Anchors Required
7	Sta. 223+00, 185' Left	12"	F.B.C.C.S. Pipe	120		2	To Replace Pipe in Co. Rd. Relocation North
8	Sta. 51+37, PR-2	15"	F.B.C.C.S. Pipe "Gr. D"	175		2	Connect to 15" Field Tile in Place
TOTALS							Total of Reinforcing Steel Carried to "Structure Quantities"

LT OR RT	STATION TO STATION	PAVED SIDE DITCH & SODDING SUMMARY					SODDING (SQ. YD.)						
		TYPE	PAY LENGTH	NO. OF LUGS	PAY LENGTH	CUT OFF WALLS	PAY LENGTH	TOTAL PAY LENGTH	FOR PSD	FOR DITCHES	SHOULDERS	OTHER	TOTAL SQD
LT	220+00 to 223+00									100			100
RT	220+00 to 223+00									100			100
LT	224+45 to 224+65										5		5
RT	224+45 to 224+65										5		5
LT	225+10 to 225+30										1		1
RT	225+10 to 225+30										1		1
LT	225+75 to 226+00									30			30
RT	225+75 to 226+00									30			30
LT	231+50 to 231+60										7		7
RT	231+50 to 231+60										15		15
LT	231+25 to 231+50										17		17
RT	231+25 to 231+50										42		42
LT	241+40 to 241+55										11		11
RT	241+40 to 241+55										71		71

APPROACH TABLE																	
LOCATION	STATION	DESCRIPTION	WIDTH FT.	RADI FT.	GRADE %	LENGTH FT.	EST. BEYOND RW FT.	EXCAVATION (CY)		BITUM. SURFACE		BITUM. BINDER		BITUM. BASE		COMPR. AGG. BASE	
								CUT	FILL	#/SQ. YD.	TONS	#/SQ. YD.	TONS	#/SQ. YD.	TONS	Depth (in)	TONS
RT	224+35	Class A Drive	24	15/26	1/2	55											

NOTES:
 Weight of Spirals includes weight of 1/4 extra turns top and bottom.
 Spacers and 1/2 turns at top included in cost of Spiral.
 *** The weight of structural steel is approximate only, and it shall be the Contractor's responsibility to determine the weight on which he bases his bid.
 For Test Bar Samples See Bridge Standard C1.

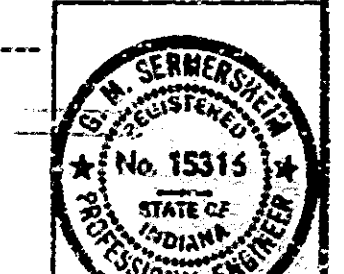
MARCH 1975
 SUMMARIZED BY C.K.O.
 TRACED BY C.K.O.

REVISIONS	
DATE	ITEM
06-08-81	Delete 6" Drain Tile 190 Lft. Delete Str. No. 5 & 9. Surface Seal
01-25-82	Str. No. 8
6-16-82	Estimated Quantity

BRIDGE SUMMARY
 INDIANA STATE HIGHWAY COMMISSION

DATE: JULY 31, 1980
 J.M. Seman

PROJECT NO: 3201(2)
 CONTRACT NO: B-13658
 BRIDGE FILE: 212-01-6373



SHEET 12 OF 42

