

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	RS-2943 (4)		2	48

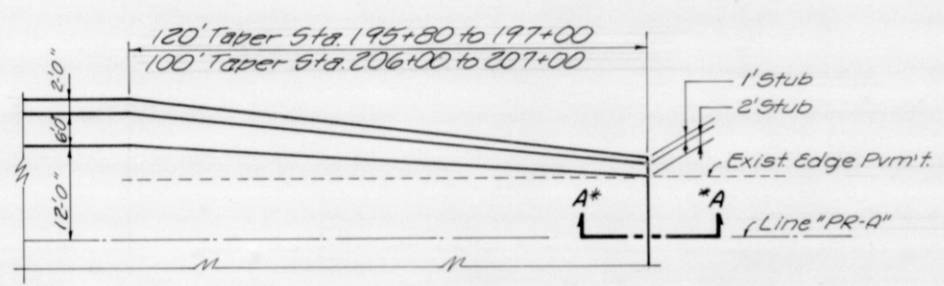
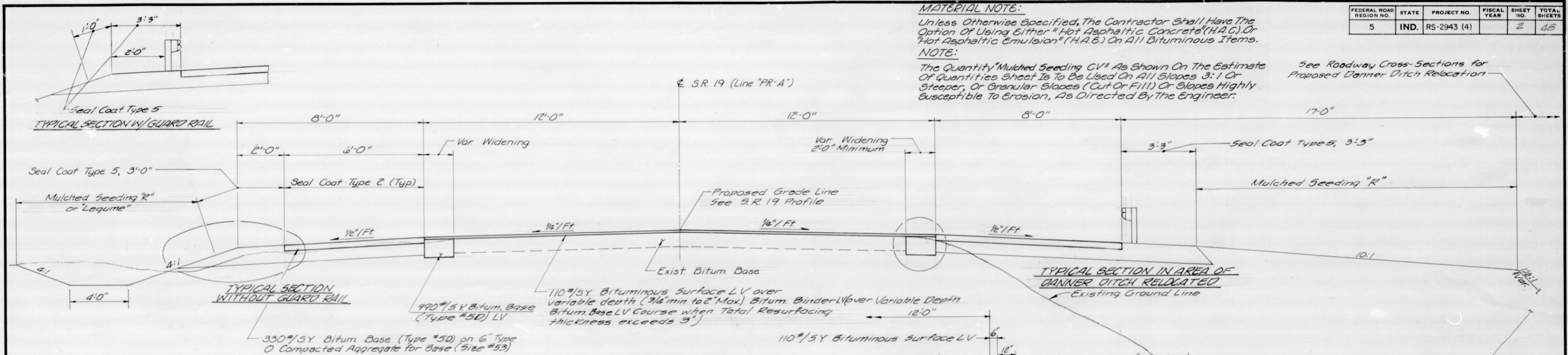
MATERIAL NOTE:

Unless Otherwise Specified, The Contractor Shall Have The Option Of Using Either "Hot Asphaltic Concrete" (H.A.C.) Or "Hot Asphaltic Emulsion" (H.A.E.) On All Bituminous Items.

NOTE:

The Quantity "Mulched Seeding CV" As Shown On The Estimate Of Quantities Sheet Is To Be Used On All Slopes 3:1 Or Steeper, Or Granular Slopes (Cut Or Fill) Or Slopes Highly Susceptible To Erosion, As Directed By The Engineer.

See Roadway Cross-Sections for Proposed Danner Ditch Relocation

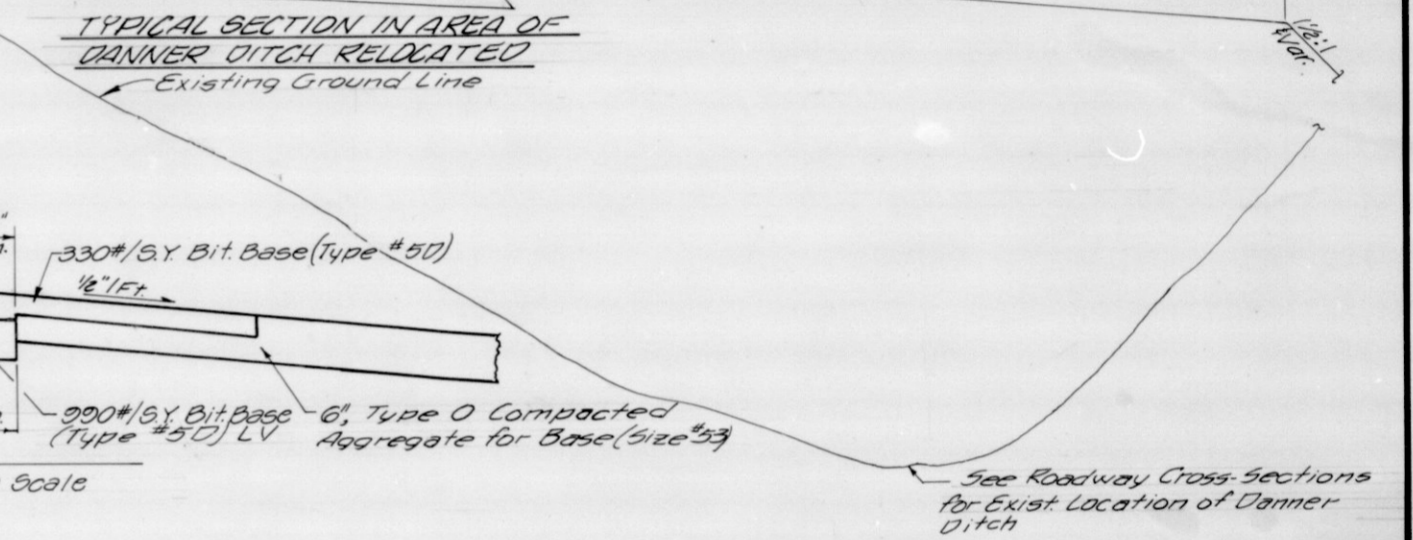


TYPICAL SECTION

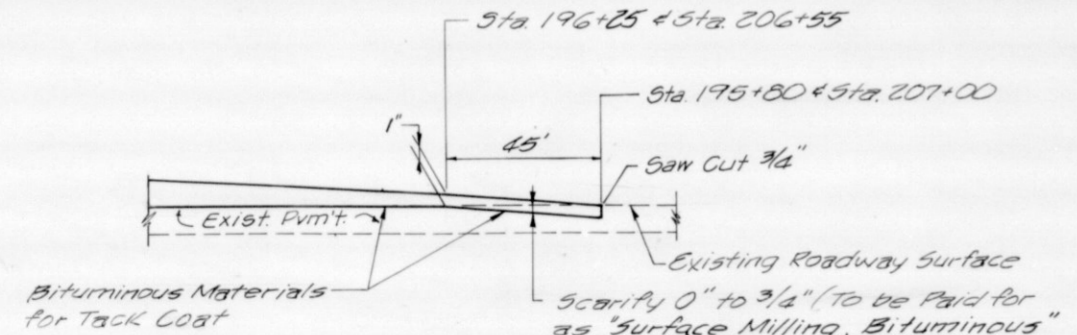
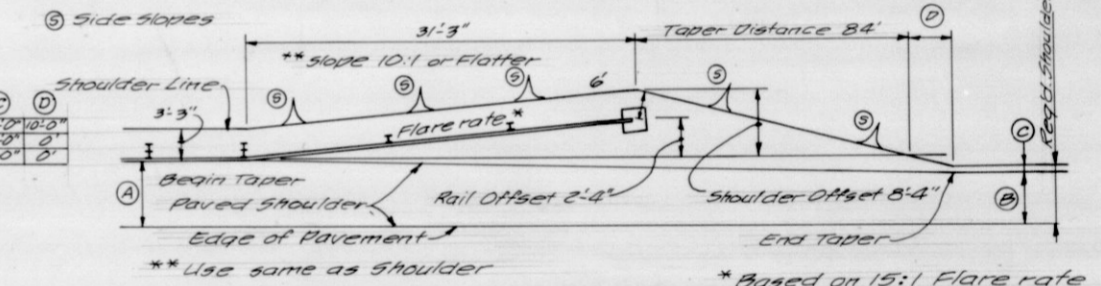
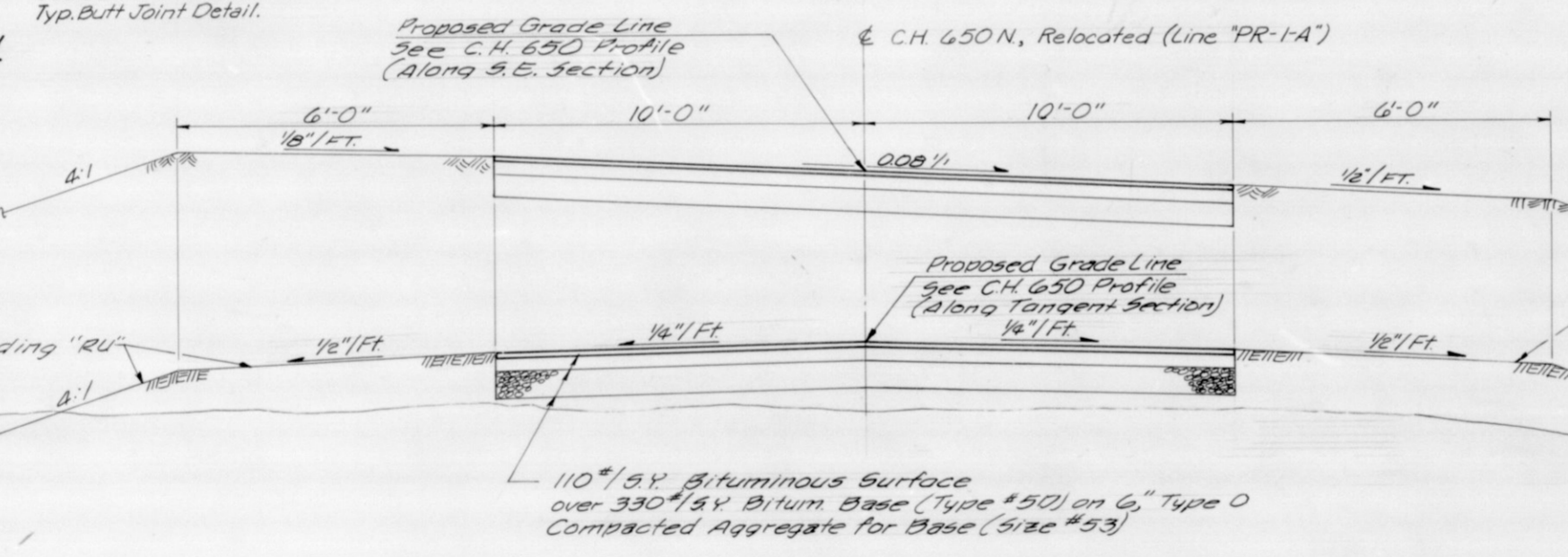
S.R.-19 (LINE "PR-A")

STA 197+00.00 TO STA 200+74.08
 STA 202+15.92 TO STA 206+00.00
 (Not to Scale)

Variable Depth (3/4" Min. to 2" Max.) Bituminous Binder LV (Top of Binder Course to Conform to Final Pavement Cross-slopes)

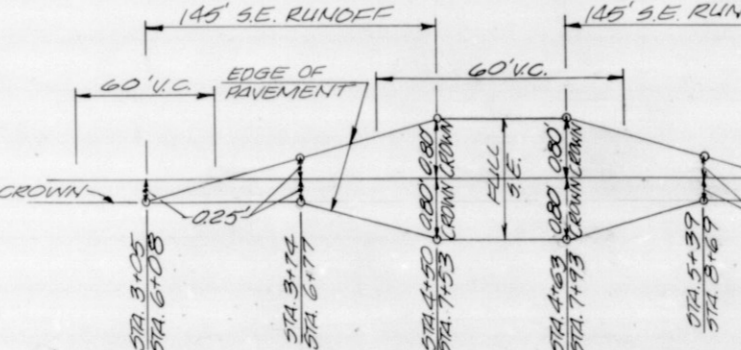


TAPER DETAIL PLAN
 (Not To Scale)

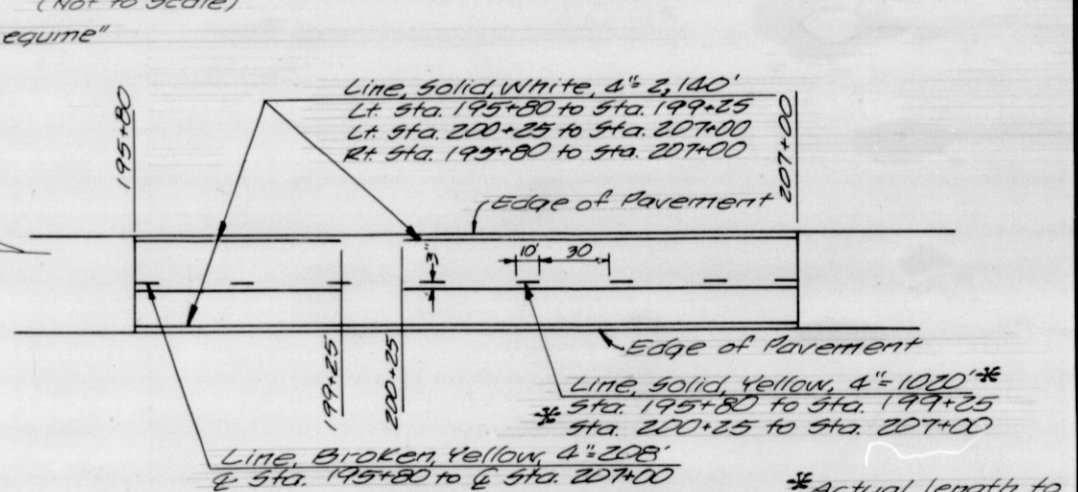


TYPICAL SECTION C.H. 650N. RELOCATION (LINE "PR-1-A")

STA. 3+05.17 TO STA. 9+02.00
 (Not to Scale)



GUARD RAIL END TREATMENT DETAIL
 (Not to Scale)



TYPICAL CROSS SECTIONS

SCALE: - NONE
 SHEET 2 OF 47

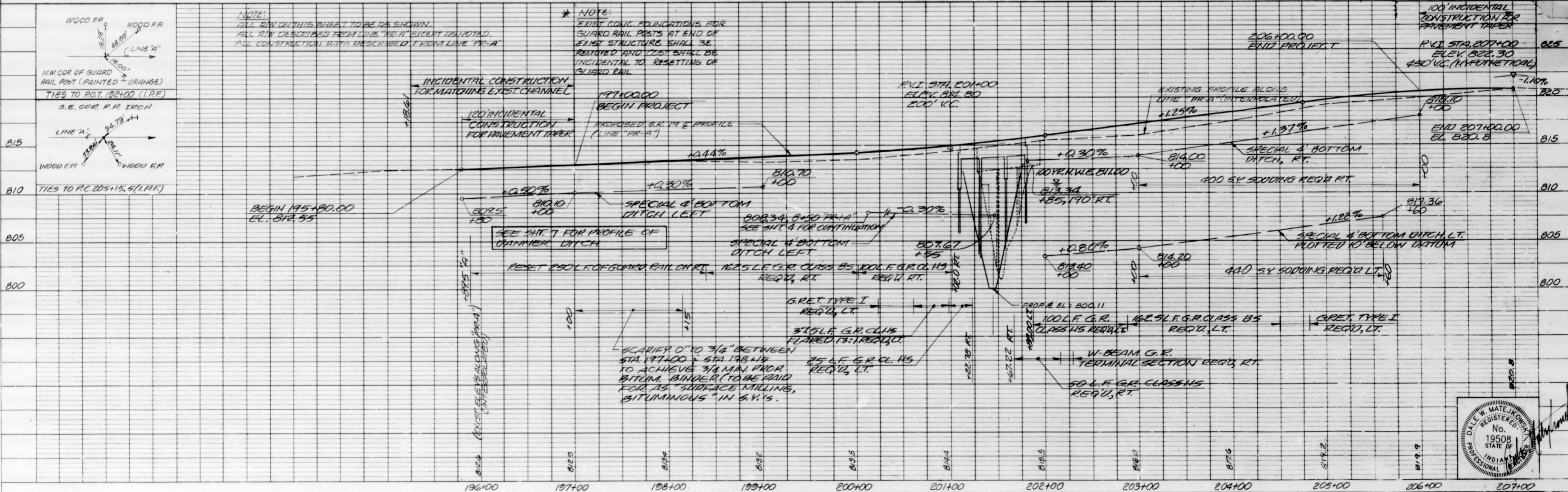
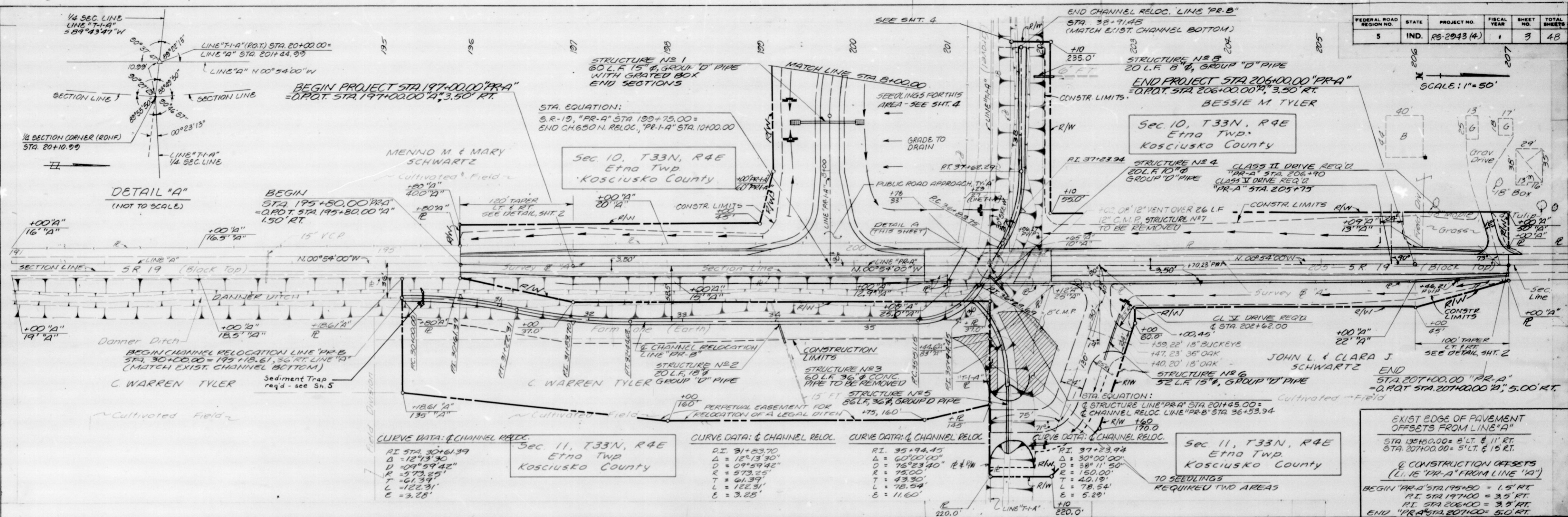
SUBMITTED FOR APPROVAL



PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
RS-2943 (4)		2	48	19-43-6149

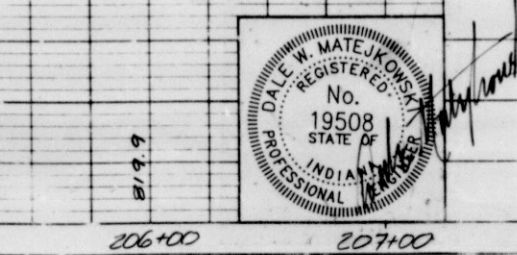
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	RS-2943 (4)	1	3	48

SCALE: 1" = 50'



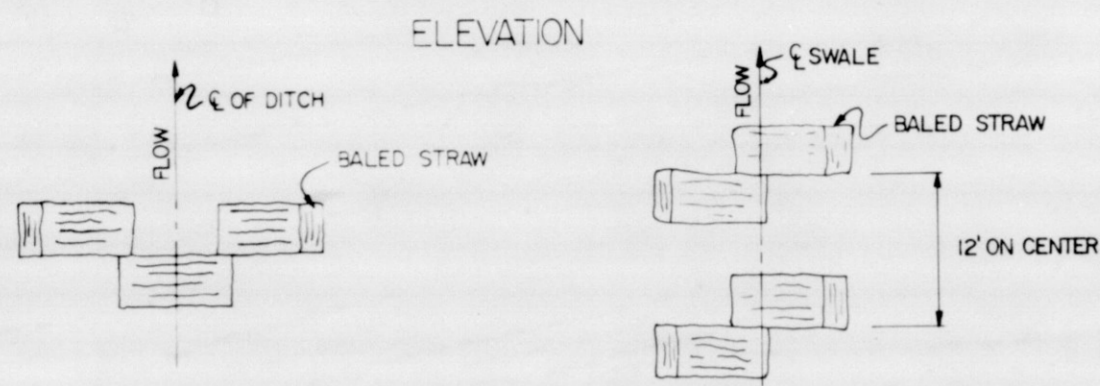
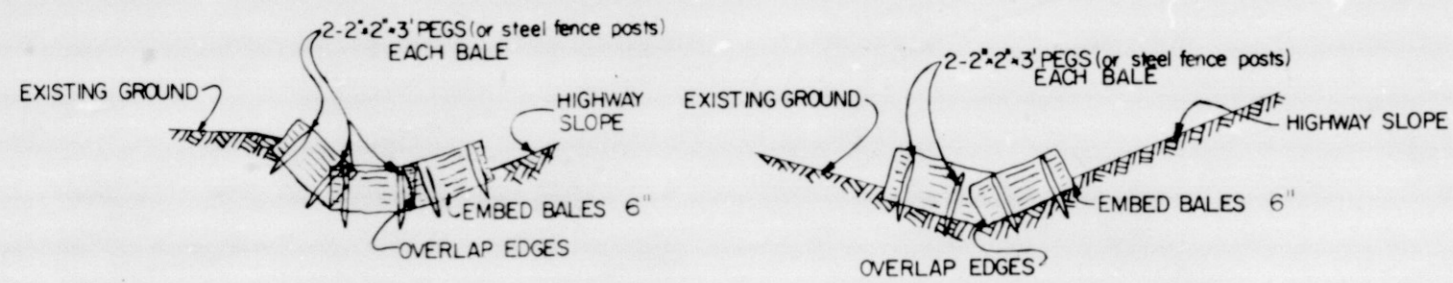
PLAN
 DRAWN BY: B.L.A.
 CHECKED BY: B.L.A.
 DATE: 10/1/84
 PROJECT NO. RS-2943
 SHEET NO. 3 OF 48

PROFILE
 DRAWN BY: B.L.A.
 CHECKED BY: B.L.A.
 DATE: 10/1/84
 PROJECT NO. RS-2943
 SHEET NO. 3 OF 48

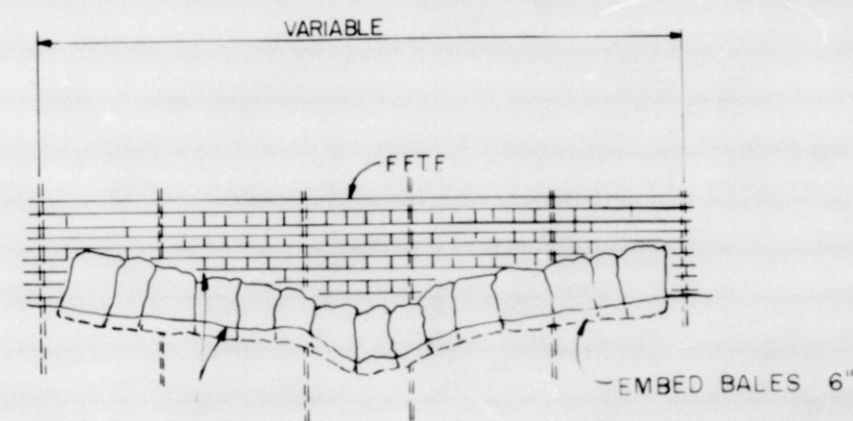


PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
RS-2943 (4)	PR-A	3	48	19-43-649

PLATE 1 - PLAN - PROFILE - 8 x 11 STANDARD
1975

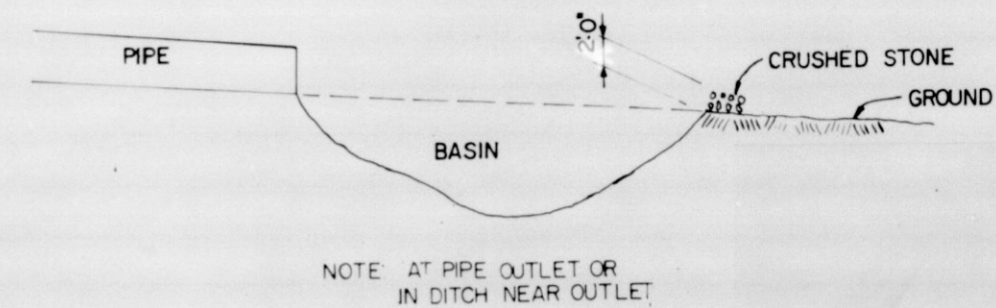


PLAN
METHOD A

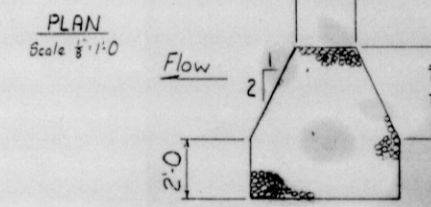
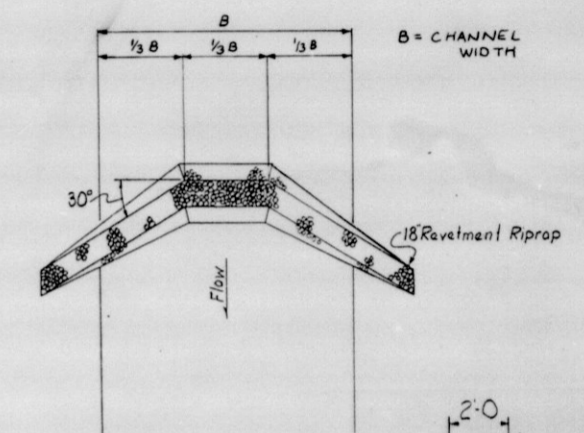


STRAW BALES & FENCE

METHOD B



METHOD D

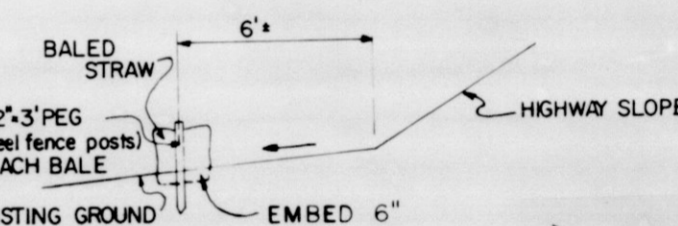


SECTION A-A
Scale 1/2" = 1'-0"

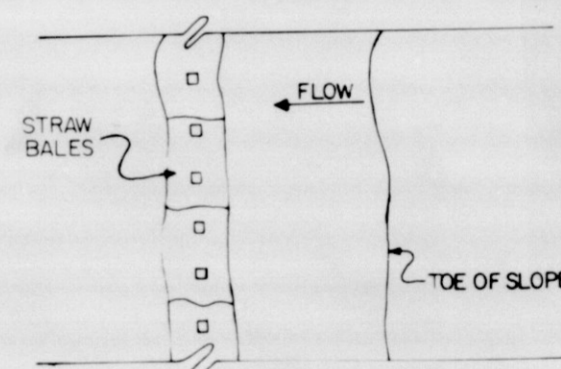
ELEVATION
Scale 1/2" = 1'-0"

PHASE I
(Sediment Trap)

Note: Sediment trap to be installed downstream of construction area before commencing any construction activities which cause siltation of the stream.
After completion of all construction activities which cause siltation, all sediments which have collected on the upstream side of the sediment trap shall be removed, and disposed of in accordance with the specifications, prior to beginning Phase II.

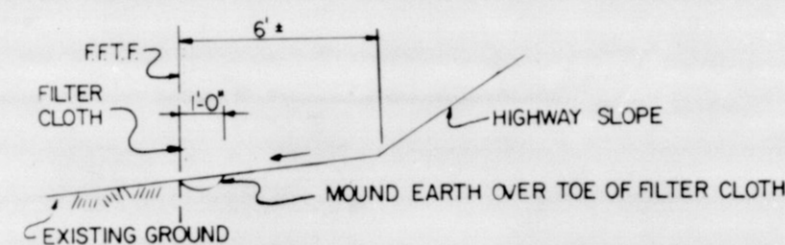


ELEVATION

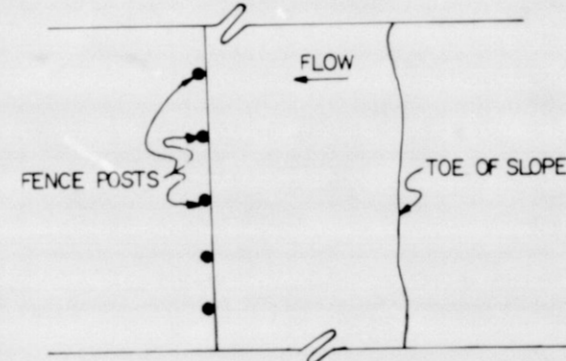


PLAN

METHOD E



ELEVATION



PLAN

METHOD C

TABLE OF QUANTITIES						
LOCATIONS	SIZE	METHOD				
		A	B	C	D	E
STATION TO STATION	FEET	BALES	LFT	LFT	EACH	BALES
201+35 LT.		3				
202+15 LT.		3				
201+90 (F.E., RT.)		4				
202+90 (F.E., RT.)		3				
8+35 RT.		3				
8+61 RT.		3				
TOTAL		19				

PAY ITEMS

- METHOD A "STRAW BALES" EACH
- METHOD B "EROSION CONTROL METHOD B" LIN FT.
- METHOD C "EROSION CONTROL METHOD C" LIN FT.
- METHOD D "EROSION CONTROL METHOD D" EACH
- METHOD E "STRAW BALES" EACH

DESIGNED: C.R.D.
DRAWN: J.A. 1/79 C.R.D.
TRACED: C.R.D.

Rev. 6-6-79 Method D and E
Rev. 4-7-80 Method A, B and E

SCALE - NONE

DATE - 1-90

SENIOR DESIGNER
DRAWING N/A OF N/A SHEET 5 OF 48
PROJECT - RS-2043 (4)
CONTRACT NO.
BRIDGE FILE - 13-43-6140

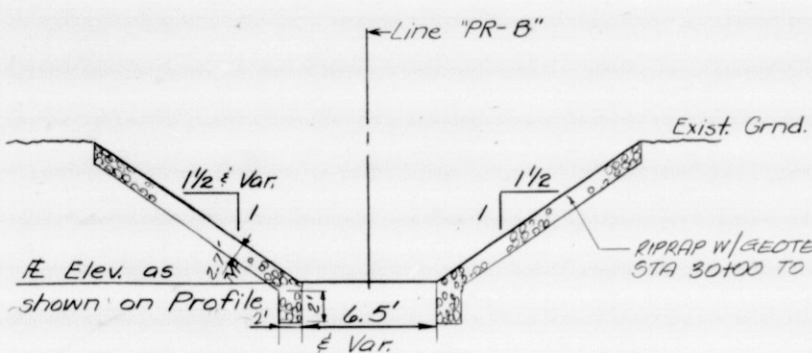


EROSION CONTROL
INDIANA DEPARTMENT OF HIGHWAYS

EARTHWORK TABULATION

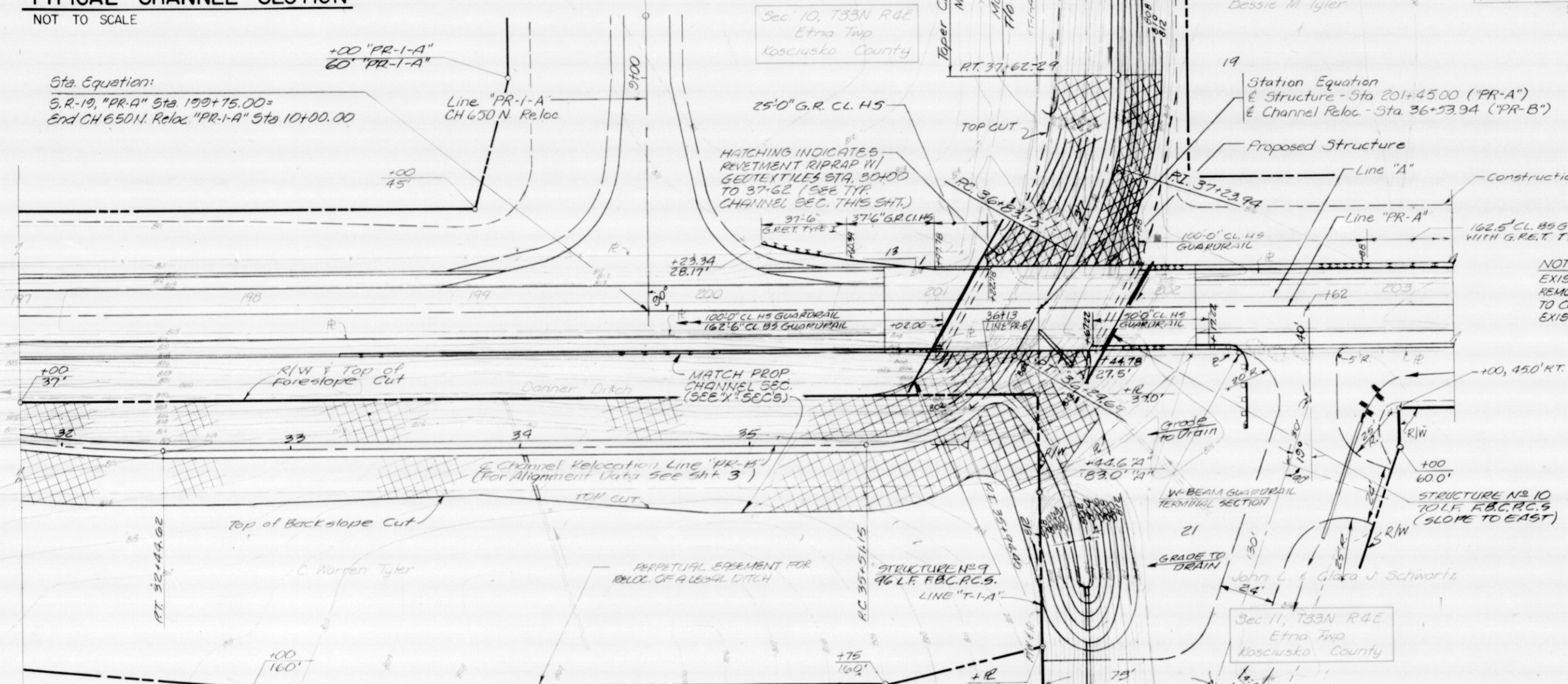
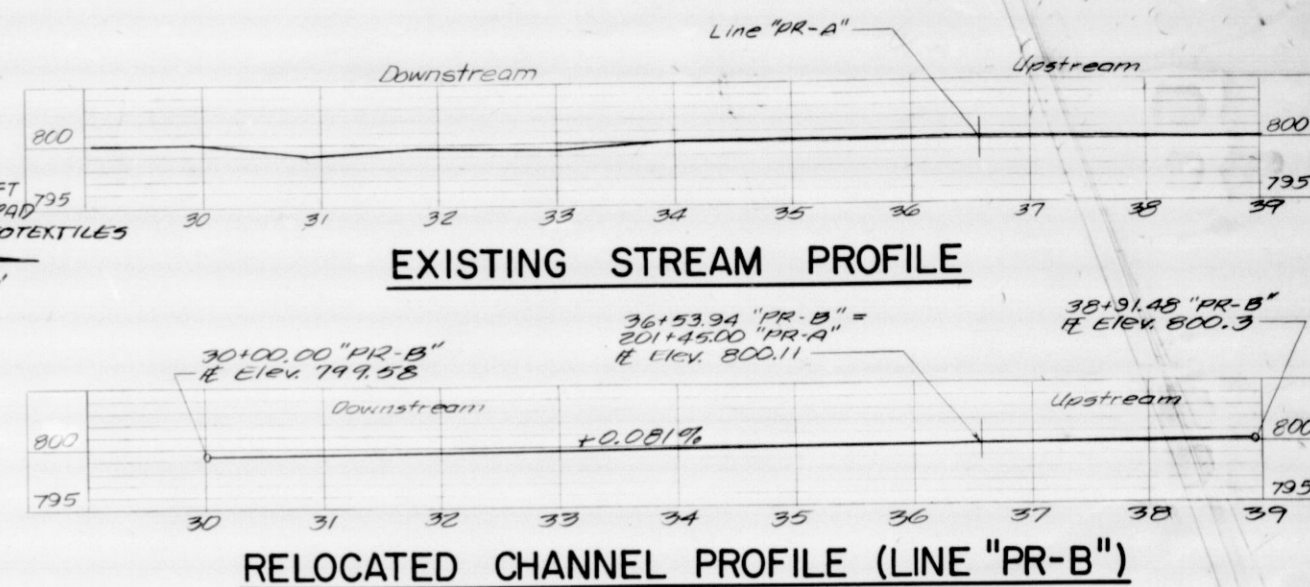
FILL +20%	- 4322 C.Y.
COMMON EXCAVATION	- 4285 C.Y.
WATERWAY EXCAVATION	- 8626 C.Y.
SURPLUS FOUNDATION EXCAVATION	- 15 C.Y.
WASTE	- 8404 C.Y.
*BENCHING (ESTIMATED)	950 C.Y.

*NO DIRECT PAYMENT. BENCHING WILL NOT BE PAID FOR AS COMMON EXCAVATION.



TYPICAL CHANNEL SECTION

NOT TO SCALE



SITUATION PLAN

SCALE: 1" = 30', CONTOUR INTERVAL = 1'

EXISTING STRUCTURE

NOT TO SCALE

UTILITY OWNERS

Power: Kosciusko County R.E.M.C. Telephone: General Tel. Co. of Ind., Inc.
 523 South Buffalo St. 501 Tecumseh St.
 Warsaw, Ind. 46530 PO Box 1201
 Ft. Wayne, Ind. 46801

HYDRAULIC DATA

Drainage Area	= 6.6 Sq. Mi.
Q100	= 1200 Cfs
Elevation, Q100	= 811.0 Ft., M.S.L.
Velocity, Q100	= 5.0 Fps
Waterway Area Required	= 250 Sq. Ft. Below Elev. 811.00
Minimum Low Structure Elev.	= 813.0 Ft., M.S.L.
Existing Waterway Area	= 160 Sq. Ft. Below Elev. Q100
Existing Low Structure Elev.	= 813.0 Ft., M.S.L.
Waterway Area Provided	= 297.2 Sq. Ft. Below Elev. 811.00
Backwater At Q100	= 0 Ft.

LAYOUT
CONTINUOUS R.C. SLAB BRIDGE

3 SPAN: 24'-2", 30'-0", 24'-2"
 SKEW: 30° 00' 00" RT.
 36'-0" CLEAR ROADWAY
 SR. 19 OVER DANNER DITCH

INDIANA STATE HIGHWAY COMMISSION

KOSCIUSKO COUNTY
 SCALE: AS NOTED DATE: 1-90

SUBMITTED FOR APPROVAL -
 DRAWING - C1 OF C5 SHEET - 7 OF 48
 PROJECT - RS-2943 (4)
 BRIDGE CONTRACT NO.
 BRIDGE FILE - 19-43-6149

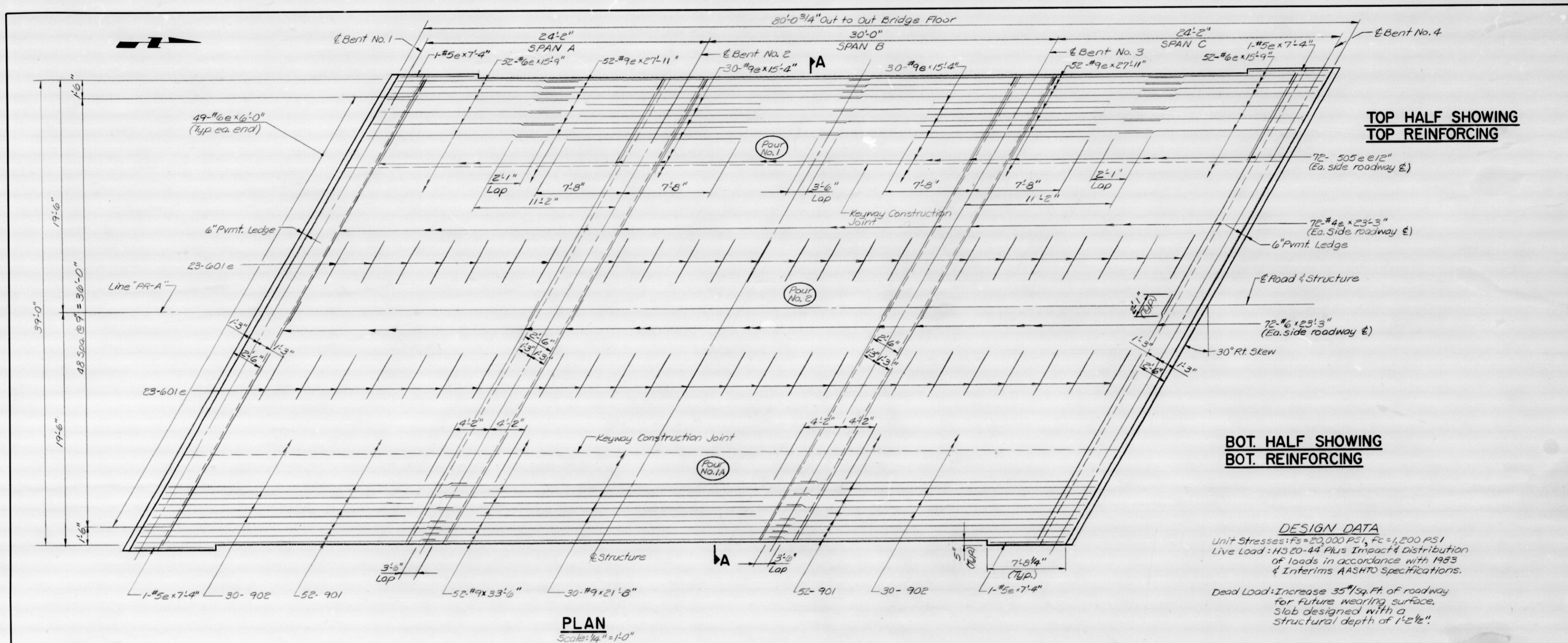


DESIGNED: W. Cox C.K.D.
 DRAWN: J.C. DWH C.K.D.
 TRACED: C.K.D.

PROFILE ON PROPOSED ROADWAY

SCALE: 1" = 30' HORIZ., 1" = 5' VERT

FIELD BOOK: BR-2659



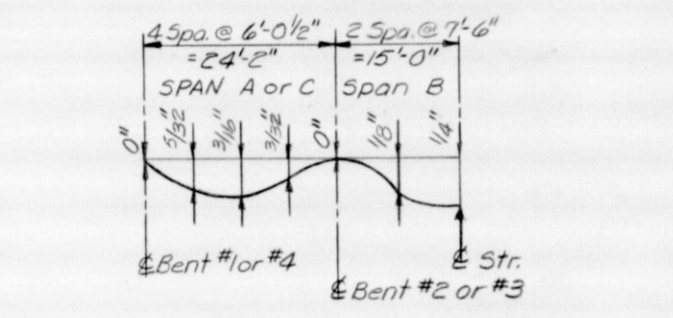
**TOP HALF SHOWING
TOP REINFORCING**

**BOT. HALF SHOWING
BOT. REINFORCING**

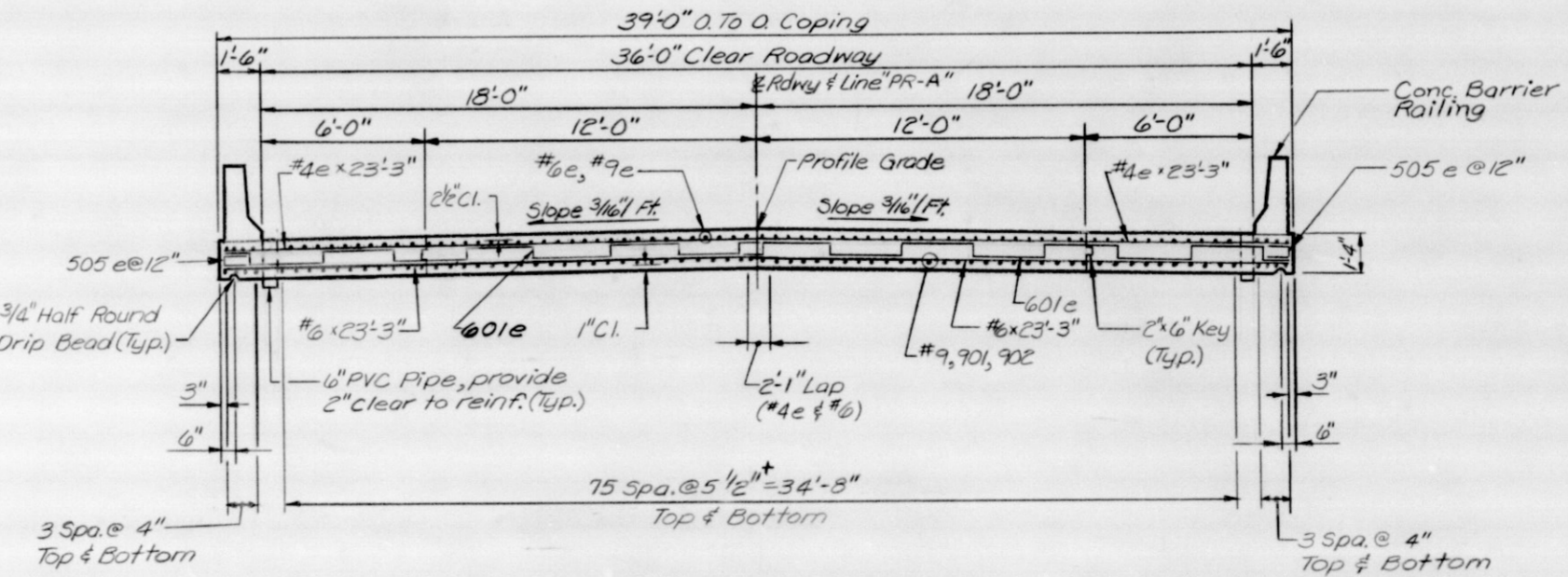
DESIGN DATA
 Unit Stresses: $F_s = 20,000 \text{ PSI}$, $F_c = 4,200 \text{ PSI}$
 Live Load: HS 20-44 Plus Impact & Distribution
 of loads in accordance with 1983
 & Interims AASHTO specifications.
 Dead Load: Increase 35 lbs./sq. ft. of roadway
 for future wearing surface.
 Slab designed with a
 structural depth of $1'-2 \frac{1}{2}''$.

NOTES
 See Bridge Standard C1 for
 Reinforcing Bar Notes.
 The top reinforcing in the deck
 shall be securely tied down
 to the deck forms to prevent
 lifting during concrete placement.
 Bars designated with "e" are
 to be epoxy coated.
 The longitudinal constr. jts
 may be eliminated subject to
 the approval of the Engineer.

PLAN
 Scale: $\frac{1}{4}'' = 1'-0''$



DEADLOAD DEFLECTION DIAGRAM



TYPICAL SECTION A-A
 Scale: $\frac{1}{4}'' = 1'-0''$

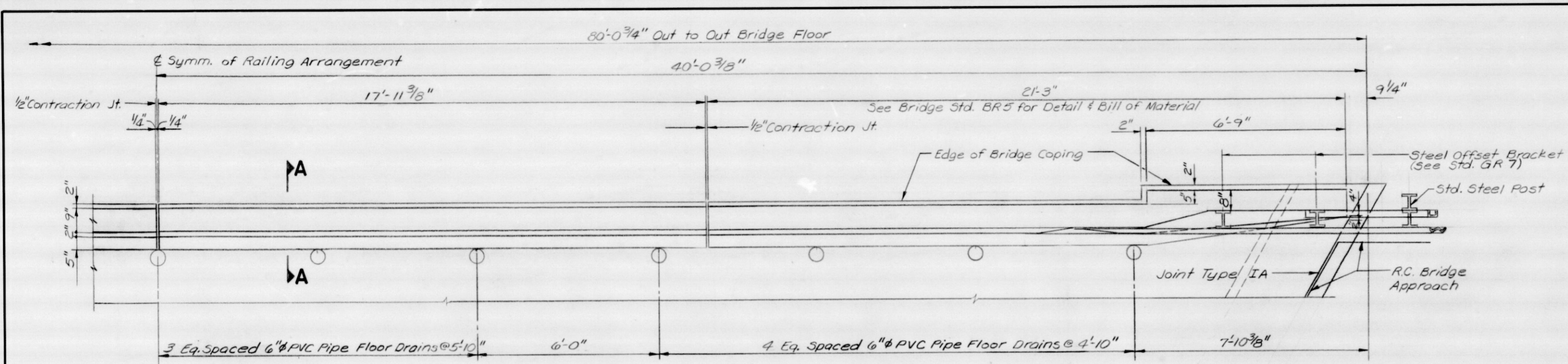
FLOOR DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE: - AS NOTED
 COUNTY _____
 DATE: 1-90

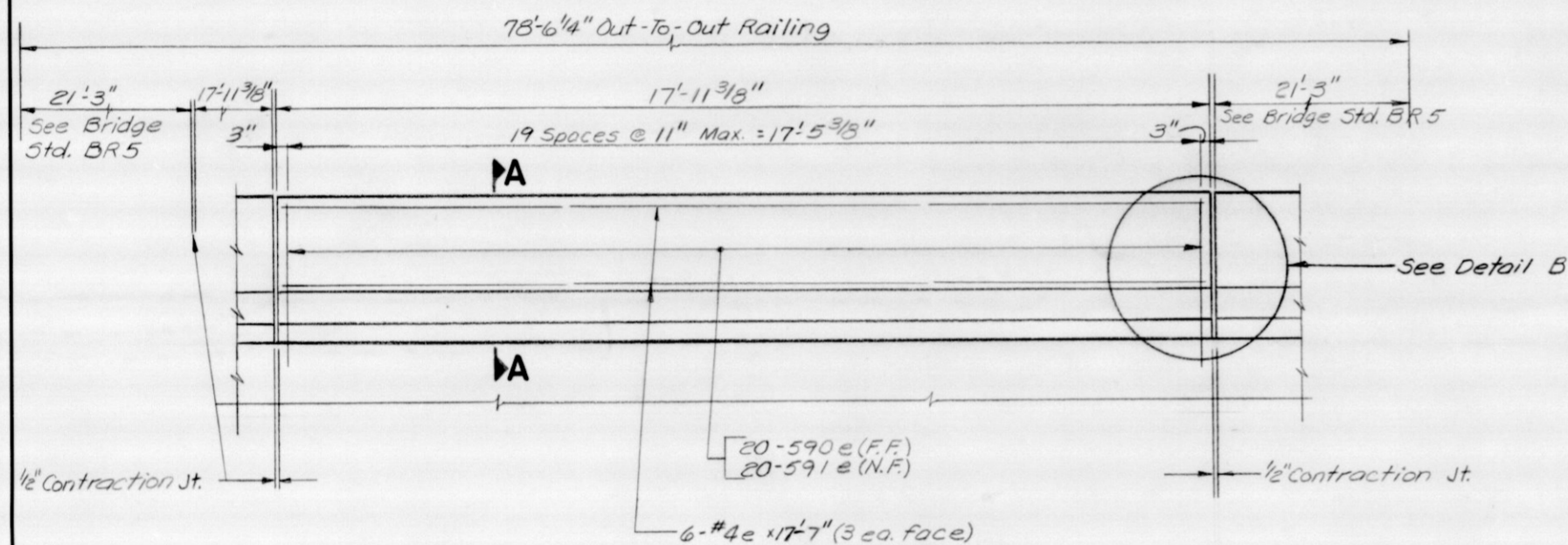
SUBMITTED FOR APPROVAL: _____
 DRAWING: C3 OF C5 SHEET: 9 OF 40
 PROJECT: RS-2943 (4)
 BRIDGE CONTRACT NO. _____
 BRIDGE FILE: 19-43-6149



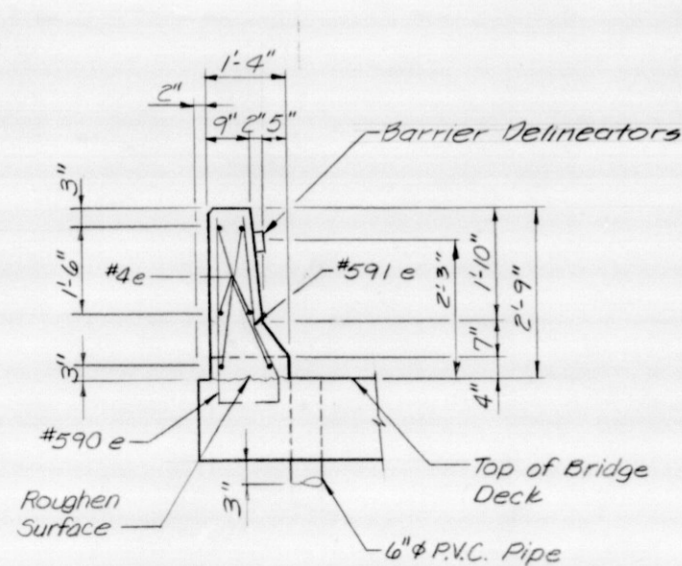
DESIGNED: _____	C'K'D
DRAWN: _____	C'K'D
TRACED: _____	C'K'D



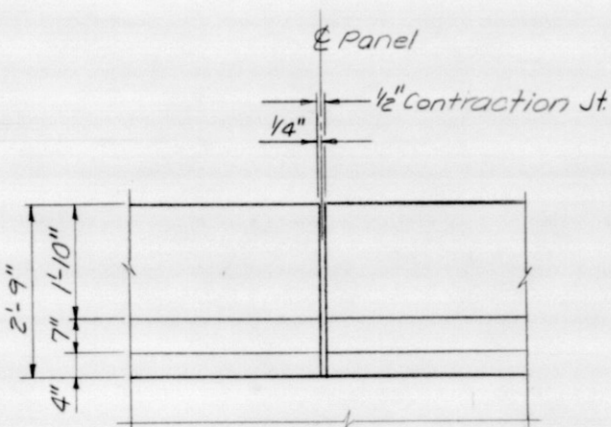
PARTIAL TOP PLAN OF WEST CONCRETE RAILING
EAST CONCRETE RAILING SIMILAR



ELEVATION, CONCRETE RAILING



SECTION A-A



DETAIL B

590 e x 3'-9"

591 e x 3'-11"

BILL OF MATERIAL

EPOXY COATED REINF. STEEL			
SIZE & MARK	NO. OF BARS	LENGTH	WEIGHT
590 e	80	3'-9"	313
591 e	80	3'-11"	327
Total #5 e			640
4 e	24	17'-7"	282
Total #4 e			282
Total Epoxy Coated Reinf. Steel For Interior Panels			922
Total Epoxy Coated Reinf. Steel For End Panel (Barrier Transition Bridge Std. BR 5, 4 @ 325 Lbs.)			1,312
Total Epoxy Coated Reinf. Steel			2,234
CONCRETE			
CLASS "C" IN RAILING			
Interior Panels (4 @ 1.75 C.Y.S.)			7.0 C.Y.S.
End Panels (Barrier Transition, Bridge Std. BR 5, 4 @ 2.1 C.Y.S.)			8.4 C.Y.S.
Total Class "C"			15.4 C.Y.S.

NOTES:
All reinforcing steel in concrete railing shall be epoxy coated.
Cost of drains (6" PVC Pipe) to be included in the cost of slab concrete.
For optional splice in vertical railing reinforcing steel, see BR. Std. C3
For 6" PVC Pipe Details, see Br. Std. C3

CONCRETE BARRIER RAILING
INDIANA STATE HIGHWAY COMMISSION

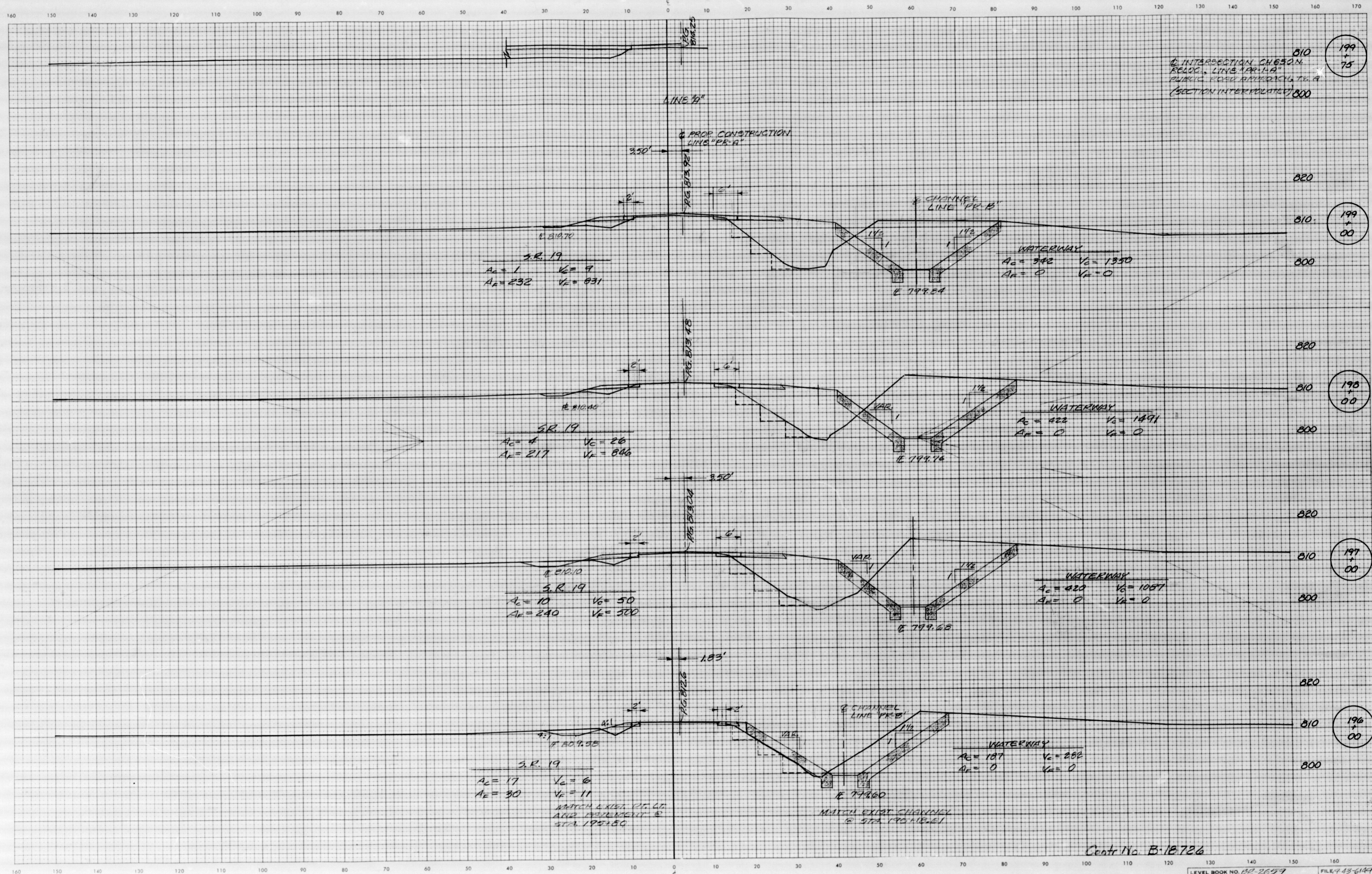
SCALE: - AS NOTED
DATE: 1-90

SUBMITTED FOR APPROVAL:-
DRAWING: C5 OF C5 SHEET: 11 OF 48
PROJECT: RS-2943(4)
BRIDGE CONTRACT NO.
BRIDGE FILE: 19-43-6149



DESIGNED: C.K'D.
DRAWN: C.K'D.
TRACED: C.K'D.

CUT CROSS SECTIONS FILL
Scale 1 inch = 10 feet



INTERSECTION CH. 650 N.
 ROAD. LINE "PR-A"
 PUBLIC ROAD APPROACH TO A
 (SECTION INTERPOLATED) 800

199
+
75

199
+
00

196
+
00

197
+
00

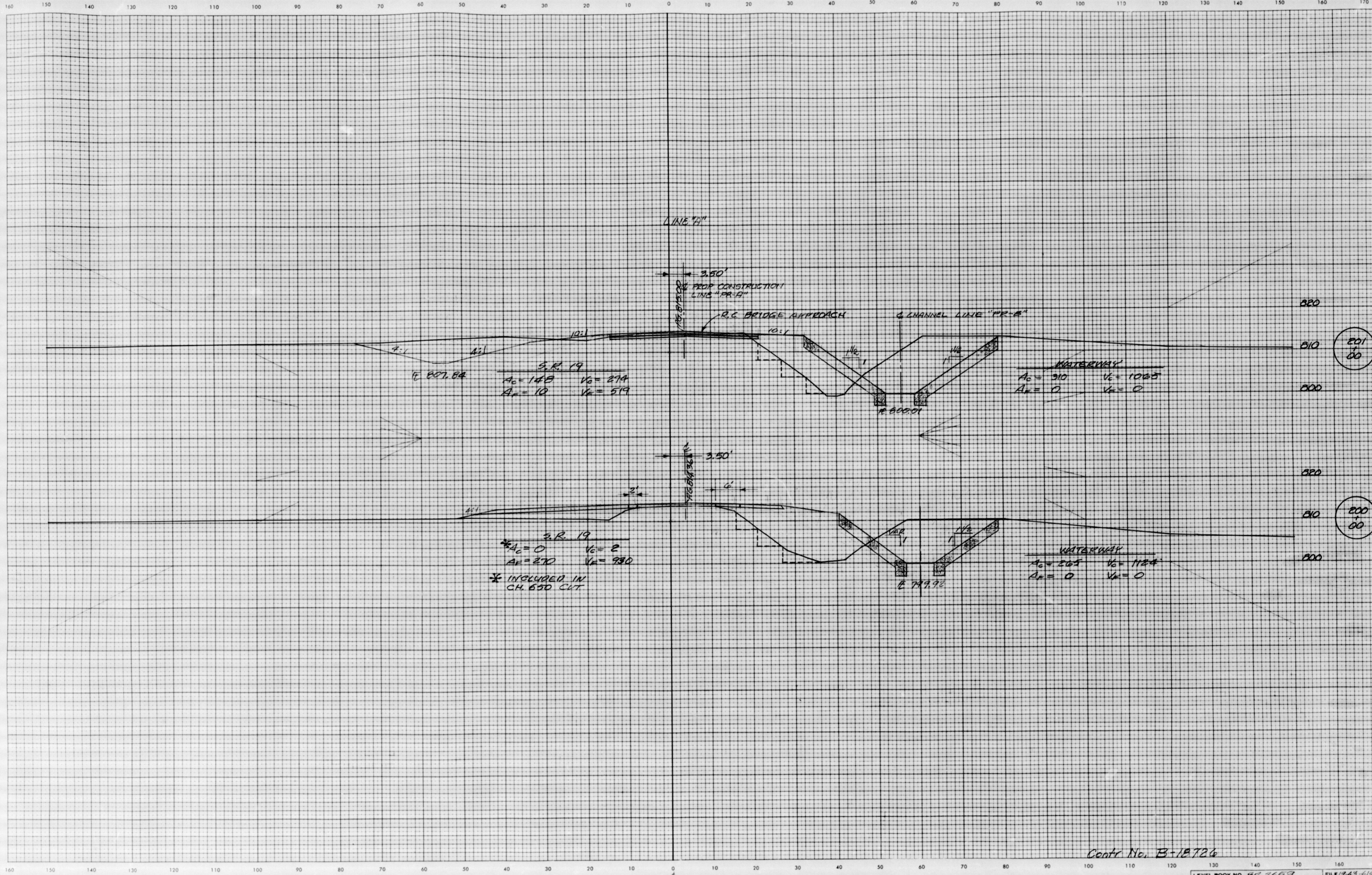
196
+
00

Centre No. B-18726

September, 1973

LEVEL BOOK NO. BR-2697		FILE NO. 43-6147	
FEDERAL ROAD REGION NO. 5	STATE IND.	PROJECT NO. RS-2043 (4)	FISCAL YEAR 13
SHEET NO. 48		TOTAL SHEETS 13	
LINE "PR-A" & "B"			

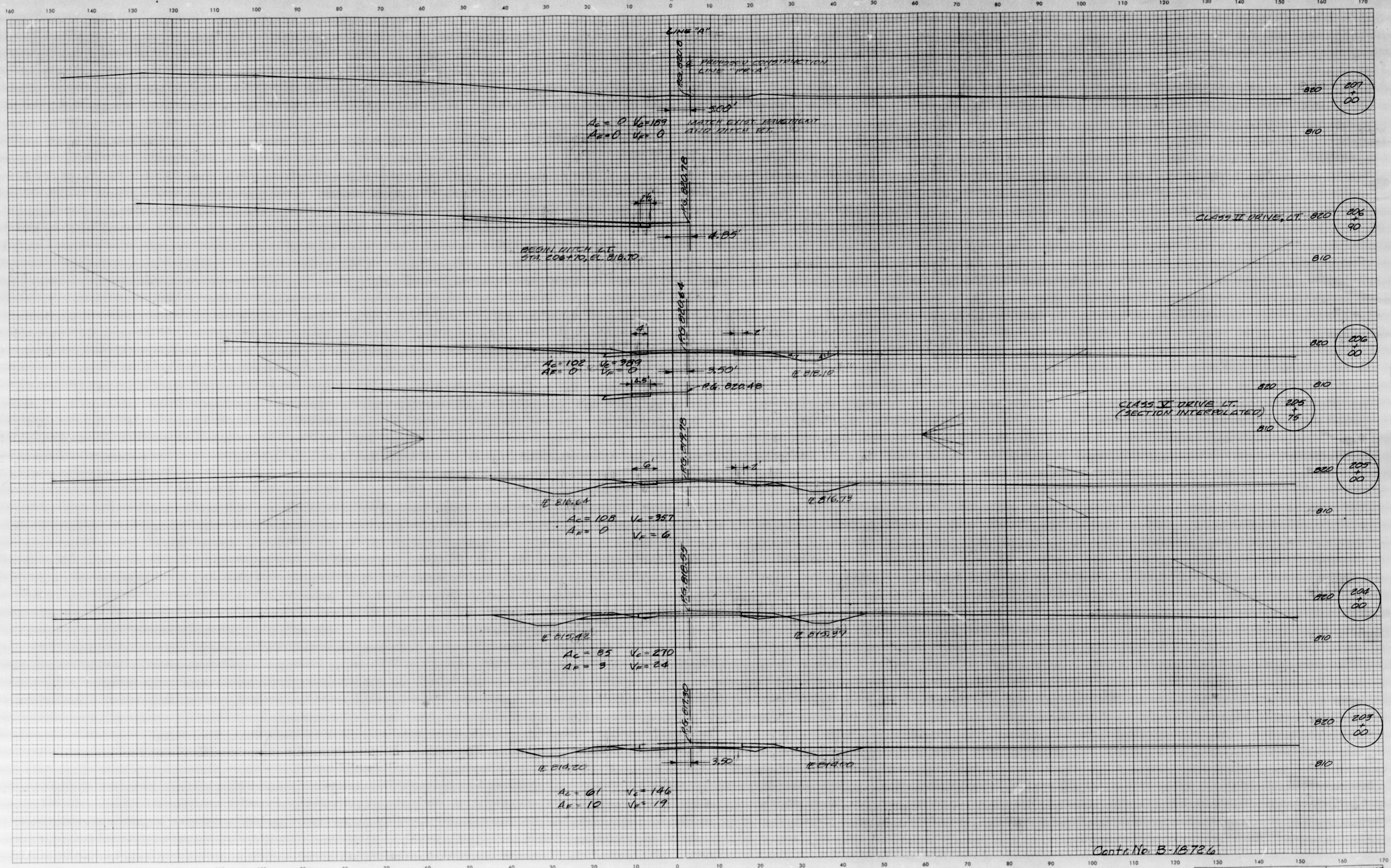
CROSS SECTIONS
Scale 1 inch = 10 feet



Cont. No. B-18726

LEVEL BOOK NO. BR 2659		FILE 1943-6144	
FEDERAL ROAD REGION NO. 5	STATE IND.	PROJECT NO. RB-2943 (4)	FISCAL YEAR.
SHEET NO. 14		TOTAL SHEETS 48	
LINE "PR-A" & "PR-B"			

CUT CROSS SECTIONS FILL
Scale 1 inch = 10 feet



Cont. No. B-18726

LEVEL BOOK NO. BR-2679		FILE 7-23-679	
FEDERAL ROAD REGION NO. 5	STATE IND. 25-2743(A)	PROJECT NO. 16	SHEET NO. 43
TOTAL SHEETS 43		LINE PR 27A	

CROSS SECTIONS
Scale 1 inch = 10 feet

CUT

FILL

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

LINE "PR-1A" (CH. 650 N. RELOC.)

145.814.00

$A_c = 80$ $V_c = 129$ $\bar{E} = 810.15$
 $A_r = 0$ $V_r = 0$

820
810
800

3
00

145.814.00

$A_c = 59$ $V_c = 92$ $\bar{E} = 811.63$
 $A_r = 0$ $V_r = 0$

820
810
800

5
50

145.814.00

$A_c = 40$ $V_c = 11$
 $A_r = 0$ $V_r = 0$

820
810
800

2
00

STA 1485.17
 $A_c = 0$
 $A_r = 0$

NOTE:
CROSS SECTIONS THIS SHEET ARE
INTERPOLATED FROM SURVEY
LINES "G-1A" AND "F-1A"

Contr. No. B-18726

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

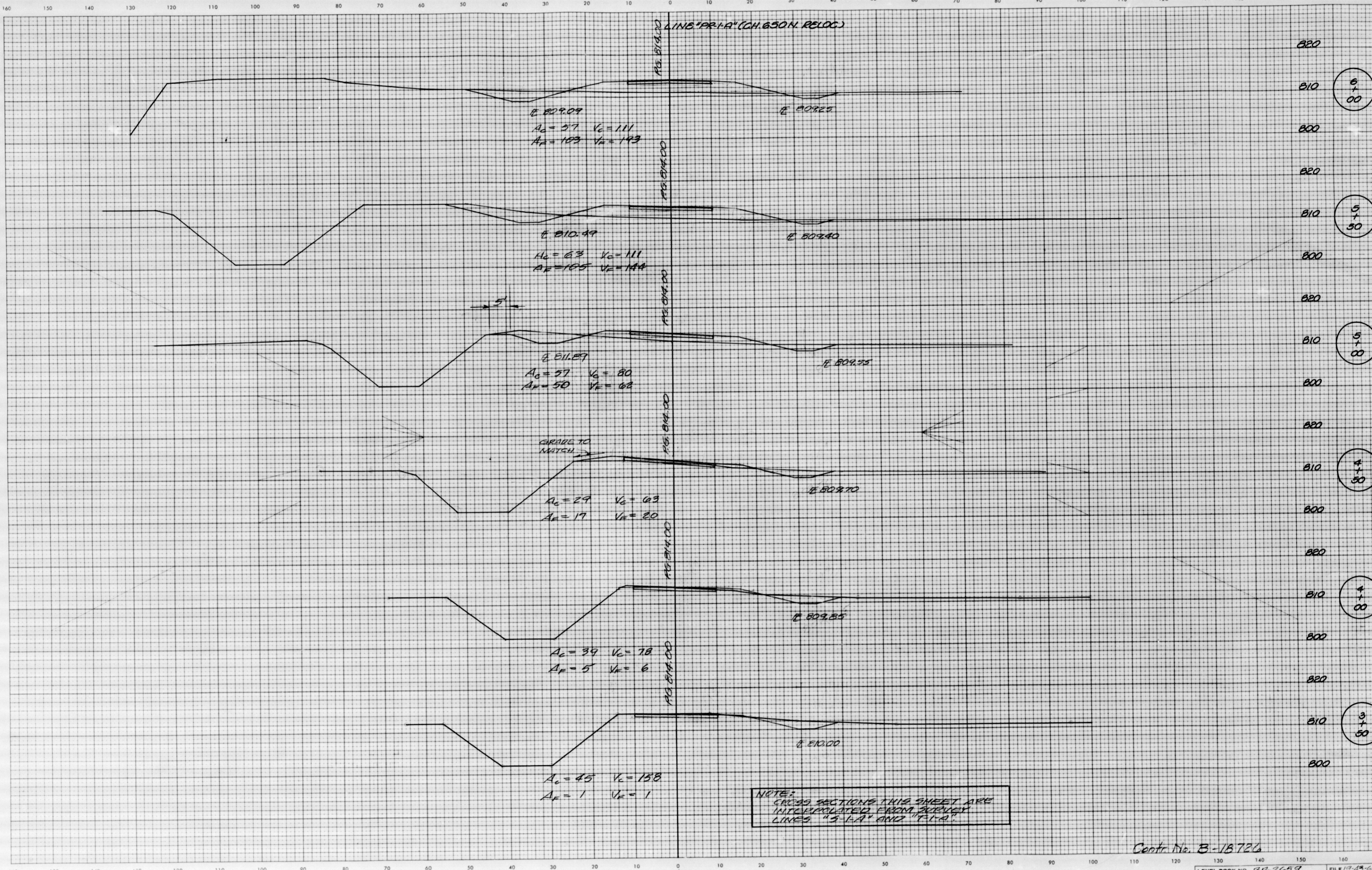
LEVEL BOOK NO. 92-2659		FILE 7-43-6199	
FEDERAL ROAD REGION NO. 5	STATE IND.	PROJECT NO. 2747(A)	FISCAL YEAR
		SHEET NO. 17	TOTAL SHEETS 28
LINE PR-1A			

CROSS SECTIONS
Scale 1 inch = 10 feet

CUT

FILL

LINE "PR-1A" (CH. 650 N. RELOC.)



LEVEL BOOK NO.	BR 2659	FISCAL YEAR	1973	FILE NO.	17-13-6149
FEDERAL ROAD DISTRICT NO.	5	STATE	IND.	PROJECT NO.	RS-2043(4)
SHEET NO.	18	TOTAL SHEETS	48	LINE PR-1A	

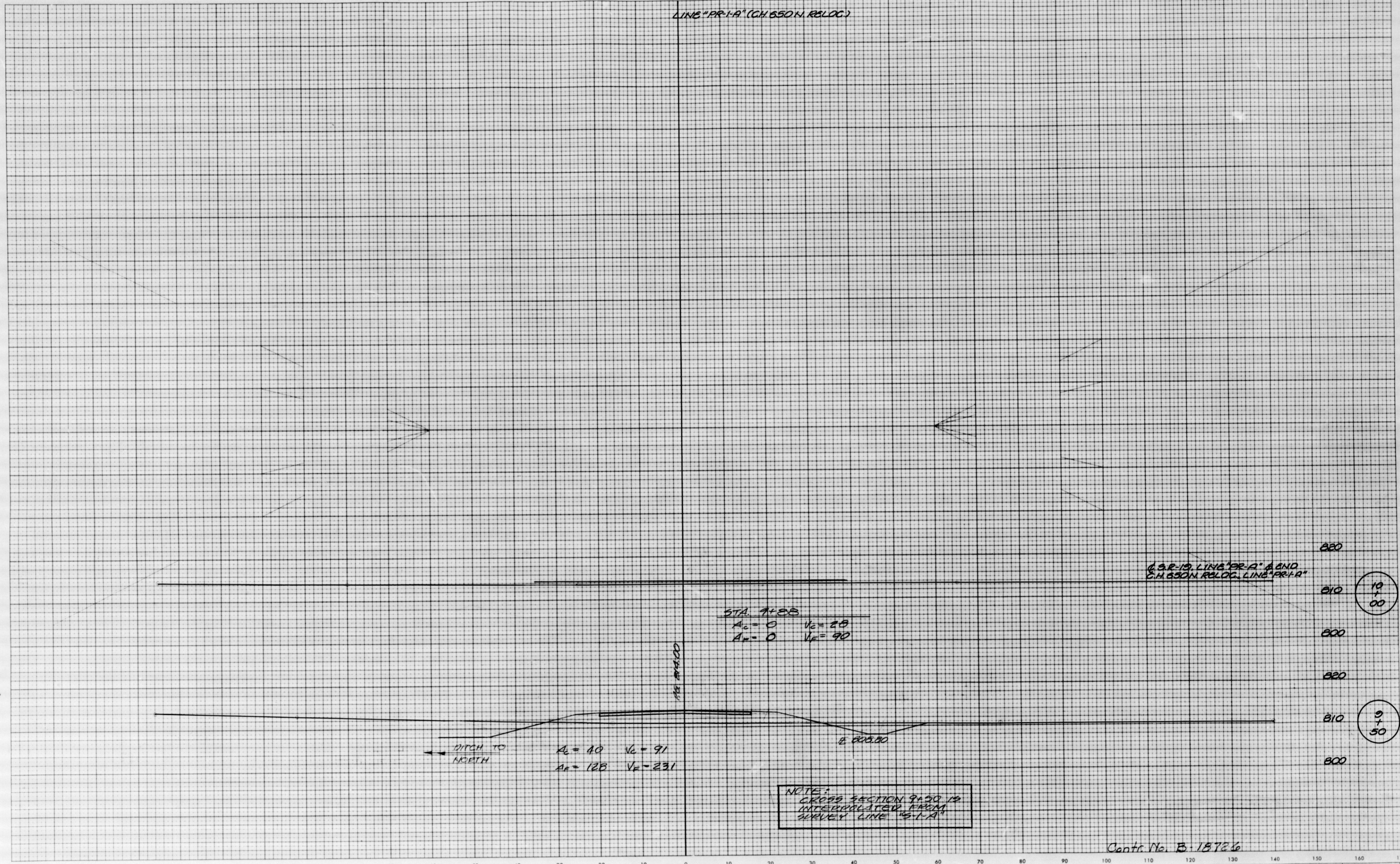
CROSS SECTIONS
Scale 1 inch = 10 feet

CUT

FILL

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

LINE "PR-1-A" (CH. 650 N. R.B.L.O.C.)



STA. 9+88
 $A_c = 0$ $V_c = 28$
 $A_f = 0$ $V_f = 90$

DITCH TO NORTH
 $A_c = 40$ $V_c = 91$
 $A_f = 128$ $V_f = 231$

NOTE:
 CROSS SECTION 9+50.12
 INTERPOLATED FROM
 SURVEY LINE 15.1-A

U.S.R. 13, LINE "PR-A" & END
 C.H. 650 N. R.B.L.O.C. LINE "PR-1-A"

10
+
00

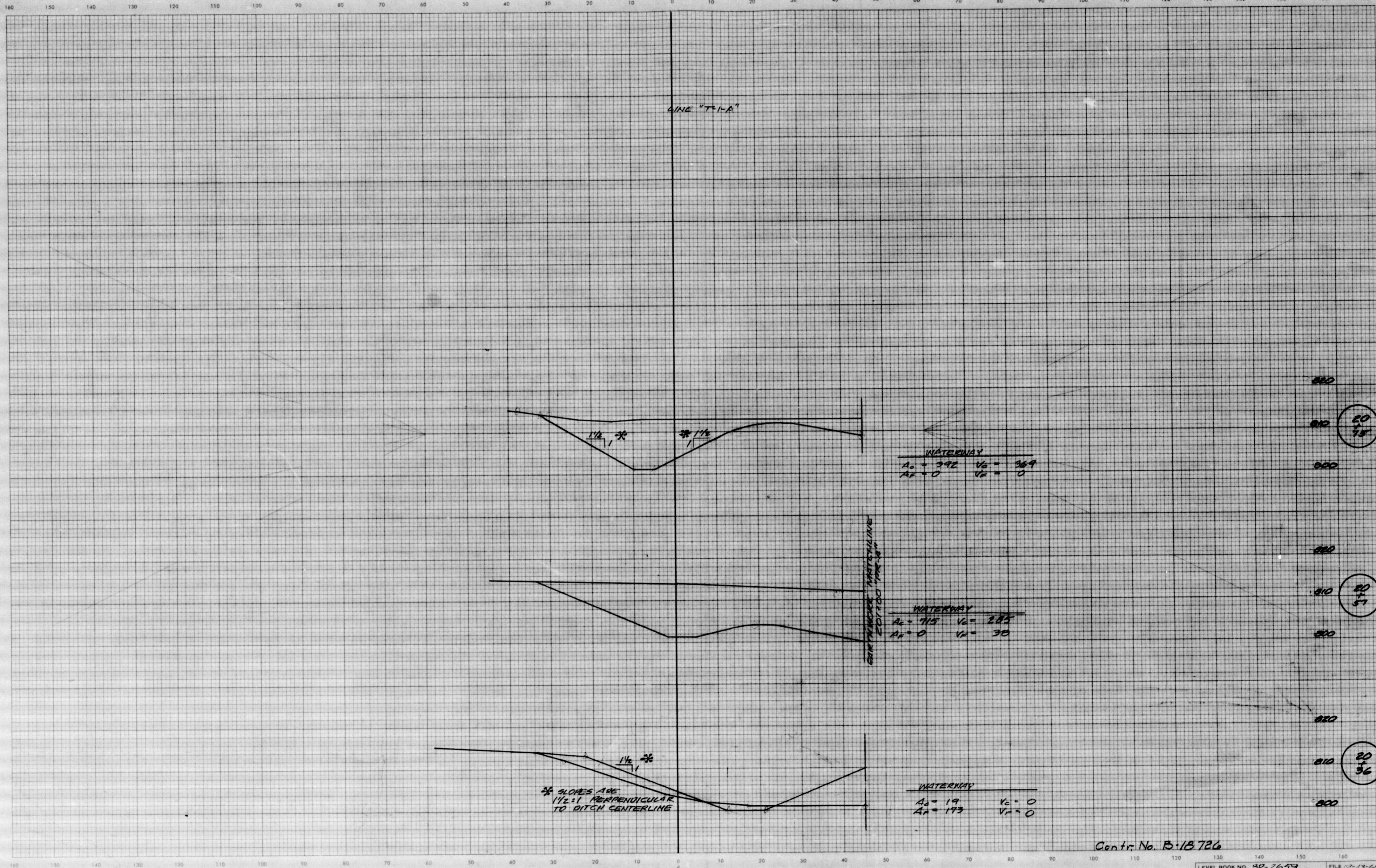
9
+
50

Center No. B-18726

LEVEL BOOK NO.	32-2659	FILE	19-43-6149
FEDERAL ROAD REGION NO.	5	STATE	IND.
PROJECT NO.	RS-2043 (4)	FISCAL YEAR	20
SHEET NO.	20	TOTAL SHEETS	48
LINE PR-1-A			

CUT CROSS SECTIONS FILL

Scale 1 inch = 10 feet



WATERWAY
 $A_c = 392$ $V_c = 369$
 $A_f = 0$ $V_f = 0$

WATERWAY
 $A_c = 715$ $V_c = 285$
 $A_f = 0$ $V_f = 38$

WATERWAY
 $A_c = 19$ $V_c = 0$
 $A_f = 173$ $V_f = 0$

* SLOPES ARE
 $1\frac{1}{2}:1$ PERPENDICULAR
 TO DITCH CENTERLINE

20
35

20
37

20
36

Contr. No. B-18726

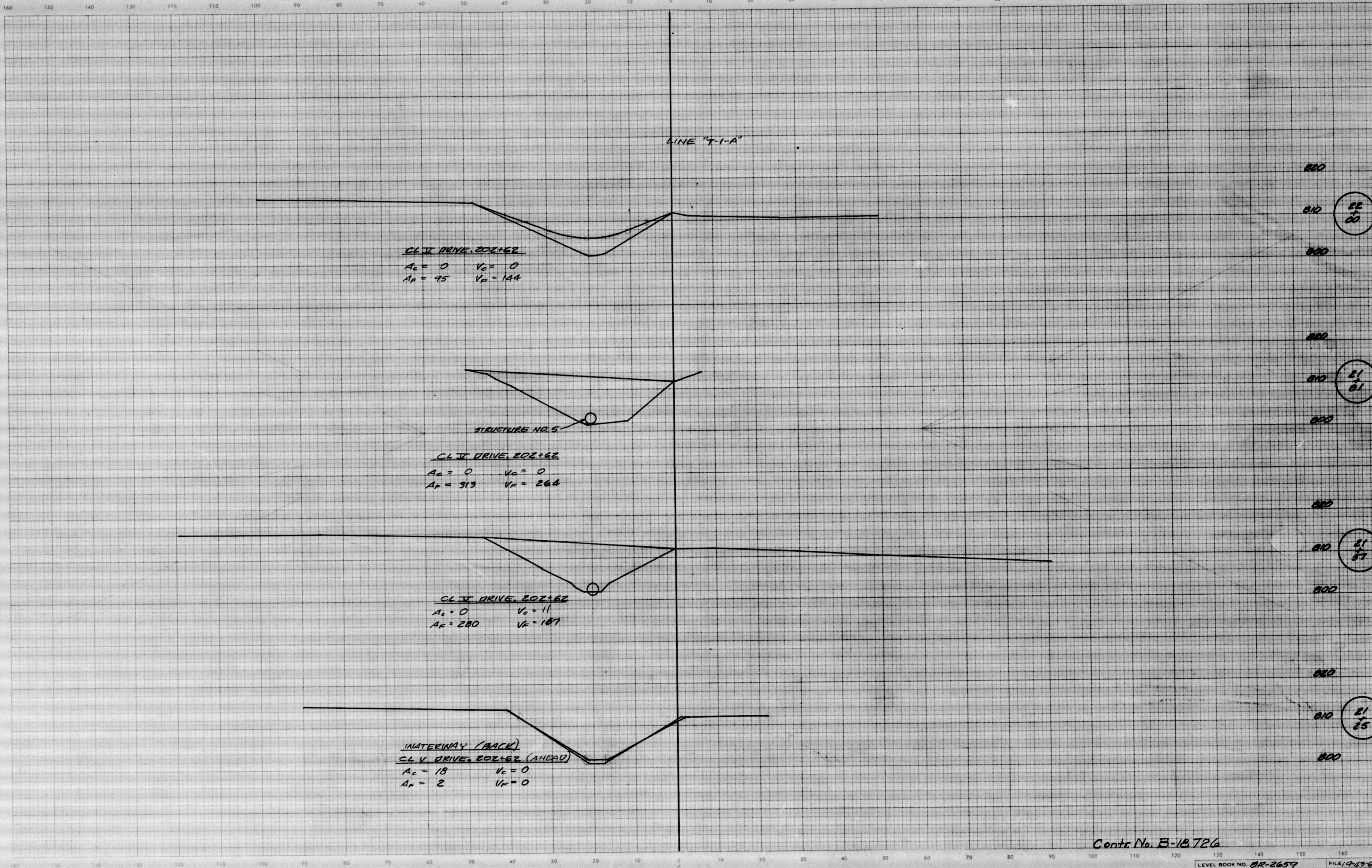
LEVEL BOOK NO. BR-2659		FILE NO. 13-6183	
FEDERAL ROAD REGION NO. 5	STATE IND. 45-245(4)	FISCAL YEAR	SHEET NO. 21
			TOTAL SHEETS 48
LINE 'T-1-A'			

CROSS SECTIONS

CUT

FILL

Scale 1 inch = 10 feet



Contr. No. B-18726

LEVEL BOOK NO. DR-2659		FILE 17-13-6149	
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR
5	IND.	RS-24336	73
SHEET NO.		TOTAL SHEETS	
22		48	
LINE "T-1-A"			