R-4458

INDEX

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SHEET NO.	3	STANDARD CROSS SECTIONS STANDARD DIVIDED LANE SECTIONS ADOPTED JANUARY 1957
SHEET NO.	4-6	TYPICAL CROSS SECTIONS
SHEET NO.	7	STD. PAVEMENT JOINTS ADOPTED APRIL 1957 SHEET 'A'
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SHEET NO.	78 - 80	MISCELLANEOUS STANDARDS SHEET P-REV. 2-28-58, SHEET Q-REV. 4-25-56, SHEET R-REV. 4-25-58
SHEET NO.		MISCELLANEOUS STANDARDS
SHEET NO.		STD. STRUCTURE [illegible] NS FOR EXTENSIONS
SHEET NO.		STD. REINF. CONC [illegible] ERT
SHEET NO.		STD. REINF. CONC [illegible] VERT. SKEWED END AND WING DETAILS. SKEW
SHEET NO.		STD. REINF. CONC. BOX CULVERT. SKEWED END AND WING DETAILS. SKEW
SHEET NO.		STD. REINF. CONC. CULV.—SLAB TOP TYPE WITHOUT FILL (10-0" TO 20-0" SPAN)
SHEET NO.		STD. REINF. CONC. CULV.—SLAB TOP TYPE UNDER FILL 1-0" TO 5-0" (10-0" TO 20-0" SPAN)
SHEET NO.		STD. REINF. CONC. CULV.—SLAB TOP TYPE WITHOUT FILL (10-0" TO 20-0" SPAN) 15° SKEW
SHEET NO.		STD. REINF. CONC. CULV.—SLAB TOP TYPE UNDER FILL 1-0" TO 5-0" (10-0" TO 20-0" SPAN) 15° SKEW
SHEET NO.		STD. REINF. CONC. CULV.—SLAB TOP TYPE WITHOUT FILL (10-0" TO 20-0" SPAN) 30° SKEW
SHEET NO.		STD. REINF. CONC. CULV.—SLAB TOP TYPE UNDER FILL 1-0" TO 5-0" (10-0" TO 20-0" SPAN) 30° SKEW
SHEET NO.		STD. REINF. CONC. CULV.—SLAB TOP TYPE WITHOUT FILL (10-0" TO 20-0" SPAN) 45° SKEW
SHEET NO.	81	STD. REINF. CONC. CULV.—SLAB TOP TYPE UNDER FILL 1-0" TO 5-0" (10-0" TO 20-0" SPAN) 45° SKEW
SHEET NO.	82	STD. CUARD RAIL ADOPTED JULY 1956
SHEET NO.	82A	STEEL BEAM GUARD RAIL REV. 1-10-57
SHEET NO.		BRIDGE STANDARD M-2 REV. 6-3-57
SHEET NO.		
SHEET NO.		
SHEET NO.		
SHEET NO.	83	DATA FOR SUPERELEVATING AND WIDENING OF CURVES ADOPTED SEPTEMBER 1932
SHEET NO.	84,85	STD. DETOUR SIGNS SHEET 1-REV. 2-11-54 SHEET 2-REV. 5-1-51
SHEET NO.	86-246	CROSS SECTIONS

INDEX FOR RIGHT OF WAY PLANS

SHEET NO.	PROJECT	DESCRIPTION
1	PROJ. 03-1(5)	TITLE SHEET
4 - 5	PROJ. 03-1(5)	TYPICAL CROSS SECTIONS
5 - 17A	PROJ. 03-1(5)	PLAN & PROFILE
18 - 27	PROJ. 03-1(5)	PLAN & PROFILE
39 - 41	PROJ. 03-1(5)	DETAILS

Shts 36 & 37 Missing

STATE OF INDIANA

STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

I PROJECT NO. 03-1(5) Old

JEFFERSONVILLE TO INDIANAPOLIS ROAD

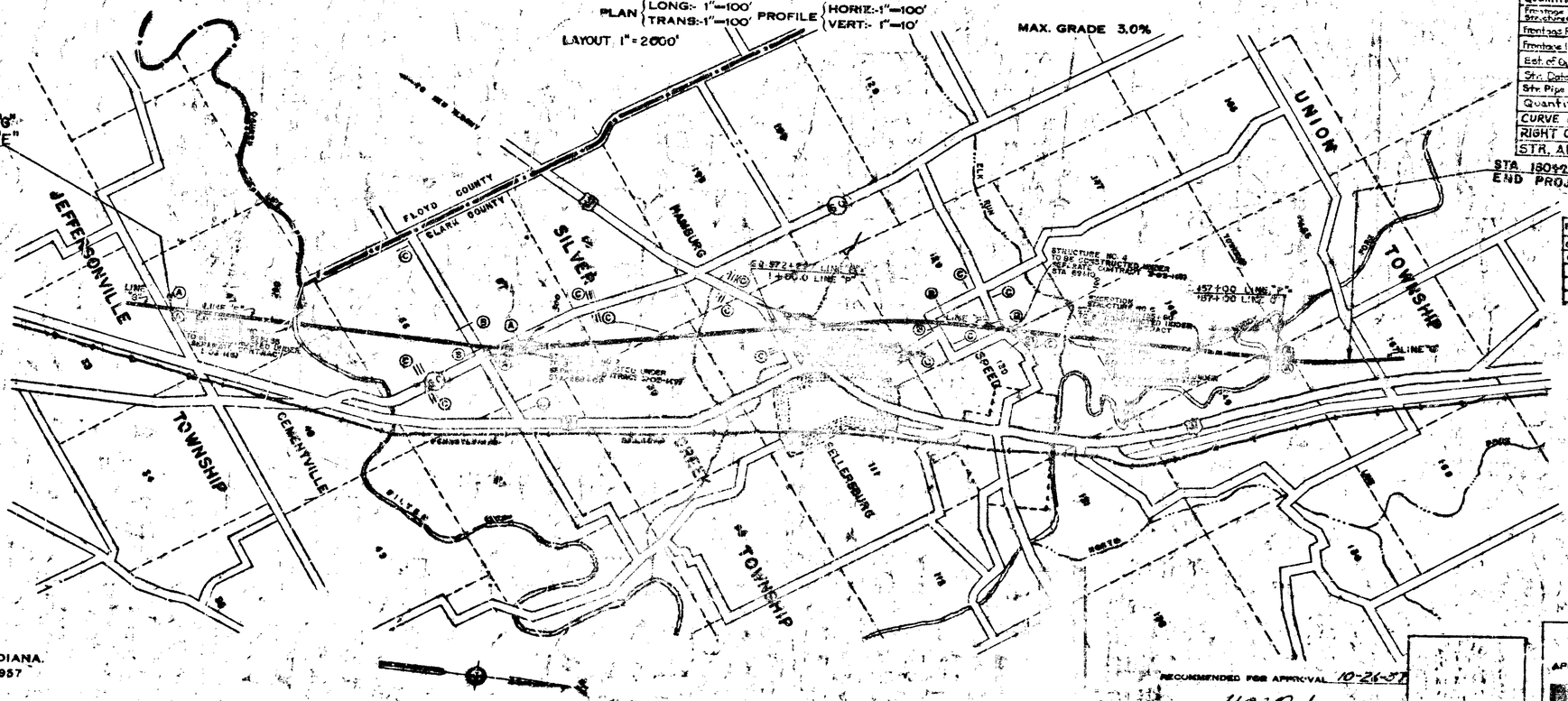
Beginning in Grant 47 Approximately 2,985 Feet West and 103 Feet North of North-East Corner of Grant 33 and Extending in a Northernly Direction 38,167.8 Feet To a Point in Grant 167 Approximately 1,602 Feet East and 1,790 Feet North of South-West Corner of Grant 167, All in Clark County.

GROSS LENGTH:- 7.228 MI.
NET LENGTH:- 6.885 MI.

SCALES:-
PLAN { LONG:- 1"=100' TRANS:-1"=100' PROFILE { HORIZ:-1"=100' VERT:- 1"=10'
LAYOUT 1"=2000'

MAX. GRADE 3.0%

EQUATION: STA. 170+28.9 LINE "G" = STA. 169+89.9 LINE "E"
BEGIN PROJECT I-03-1(5)
END PROJECT I-03-1(1)



STATE HIGHWAY DEPARTMENT OF INDIANA.
STANDARD SPECIFICATIONS DATED 1957
TO BE USED WITH THESE PLANS.

REVISIONS		
REVISION	SHEET NO.	DATE
NEW TOPO.	10,12,14,16,17,17A, 20,27 & 41	9-10-57.
CURVE DATA	1, 17 & 23	-2-21-58.
RIGHT OF WAY	41, 55	3-21-58
QUANTITIES	54, 65	3-31-58
Subsurface Drains	54 &	5-19-58
TYPE A3 Inlet Entrance	C&D	" " "
Anchor Note	61	" " "

LEGEND
- BARRICADE TYPE 'A'
- BARRICADE TYPE 'B'
- TYPICAL SIGN STANDARDS

NEW N
I-65-1(5) 005

FEDERAL ROAD DIVISION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	[illegible]	195[illegible]	1	246

X-SEC SENT TO SEY. 7-30-57
DIST. 8-10-60

DESIGN DATA

A.D.T. 1955.....12,503
A.D.T. 1975.....25,006
D.H.V.....3,000
DIRECTION.....50%
TRUCKS.....15%
DESIGN SPEED.....70 M.P.H.
ACCESS CONTROL.....FULL

ROBERT MACK GILLIM REGISTERED NO. 7358 INDIANA RESIDENT OF NEW YORK PROFESSIONAL ENGINEER

PREPARED BY: BRIGHTON ENGINEERING COMPANY
SIGNATURE: [signature] TITLE
DATE: 12 Aug. 1957

R/W PLANS FOR THIS PROJECT INCLUDES
R/W PLANS FOR SEPARATE CONTRACT
STRUCTURES.

Quantities Sheet.	65	5-19-58
Frontage Road Structures & R/W	16	5-20-58
Frontage Road & R/W	17	" " "
Frontage Roads R/W	41	" " "
Est. of Quantities	65	" " "
Str. Data	67	" " "
Str. Pipe Size Revised	19, 65, 68	5-22-58
Quantities Sheet	65	5-22-58
CURVE DATA	40	5-29-58
RIGHT OF WAY	27	6-12-58
STR. ADDED	18	7-1-58

STA 180+28 LINE "Q"
END PROJECT I-03-1(6)

Cont'd

Frontage Road	16, 17	[illegible]
Grade & R/W	16,17 & 18 & 41	9-A [illegible]
Quantities	65	9-A [illegible]
Structures	68	9-[illegible]
Quantities	18,19 & 65	[illegible]
Quantity	65	[illegible]

APPROVED AND ADOPTED 10/1/57
BY STATE HIGHWAY DEPARTMENT OF INDIANA
[signature] CHAIRMAN—STATE HIGHWAY DEPARTMENT OF INDIANA
APPROVED 10-29-57
[signature] CHIEF ENGINEER—STATE HIGHWAY DEPARTMENT OF INDIANA

RECOMMENDED FOR APPROVAL 10-26-57
[signature] ENGINEER OF ROAD DESIGN, STATE HIGHWAY DEPARTMENT OF INDIANA

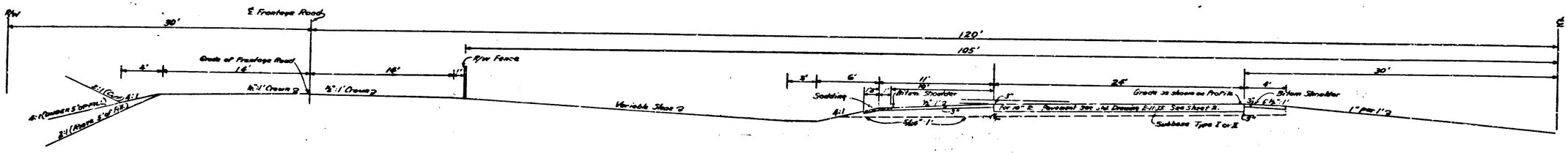
BUREAU OF PUBLIC ROADS
DEPARTMENT OF COMMERCE
APPROVED
DISTRICT ENGINEER DATE

FEDERAL ROAD DIVISION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	03-1(6)	1537	1A	2

RIGHT OF WAY PLAN — PROJ. NO. 03-1(6)
JEFFERSONVILLE — CHARLESTOWN ROAD
SCALE 1" = 200' UNLESS OTHERWISE AS NOTED

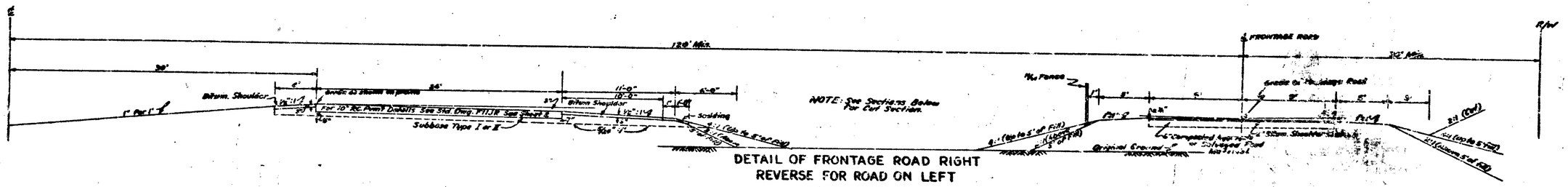
DETAIL OF INSERT 'B'
SCALE 1" = 200'

FEDERAL ROAD DIVISION NO	STATE	PROJ. NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND.	I-03-1(5)	1957	4	546

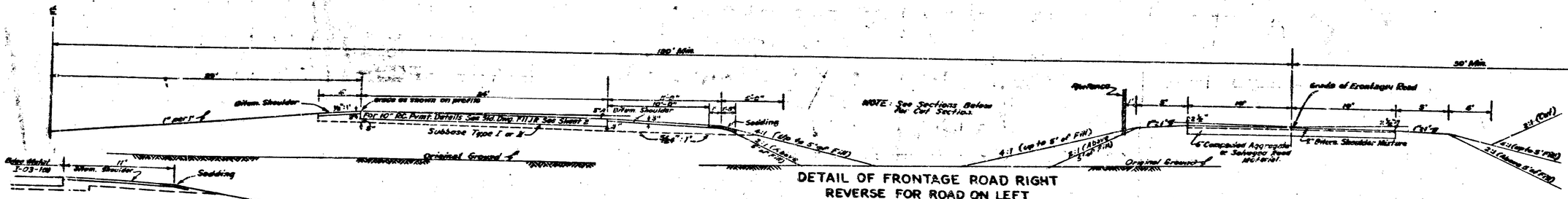


FRONTAGE ROAD LEFT
DIRT SURFACE
SCALE 1"=5

Note: See Sheet No. 1 For Typical Section Showing Subsurface Drainage.

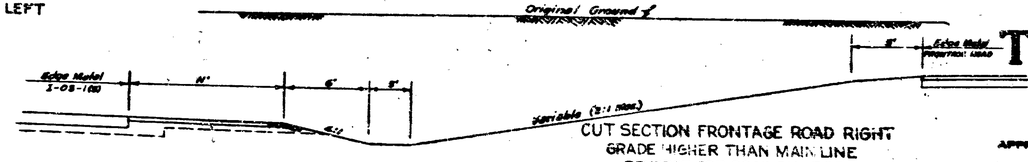


DETAIL OF FRONTAGE ROAD RIGHT
REVERSE FOR ROAD ON LEFT
18'FT. SURFACE
SCALE 1"=5'



DETAIL OF FRONTAGE ROAD RIGHT
REVERSE FOR ROAD ON LEFT
20'FT.SURFACE
SCALE 1"=5'

CUT SECTION FRONTAGE ROAD RIGHT
GRADE LOWER THAN MAINLINE
REVERSE FOR ROAD ON LEFT
SCALE 1"=5'



CUT SECTION FRONTAGE ROAD RIGHT
GRADE HIGHER THAN MAINLINE
REVERSE FOR ROAD ON LEFT
SCALE 1"=5'

TYPICAL CROSS SECTIONS

SCALE- AS SHOWN

APPROVED _____
STATE HIGHWAY ENGINEER

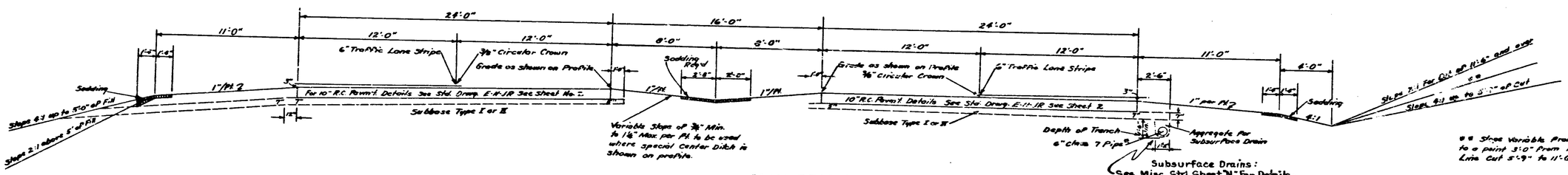
APPROVED _____ DATE: 11/26/56
STATE HIGHWAY DIRECTOR

RECOMMENDED FOR APPROVAL 10-26-56

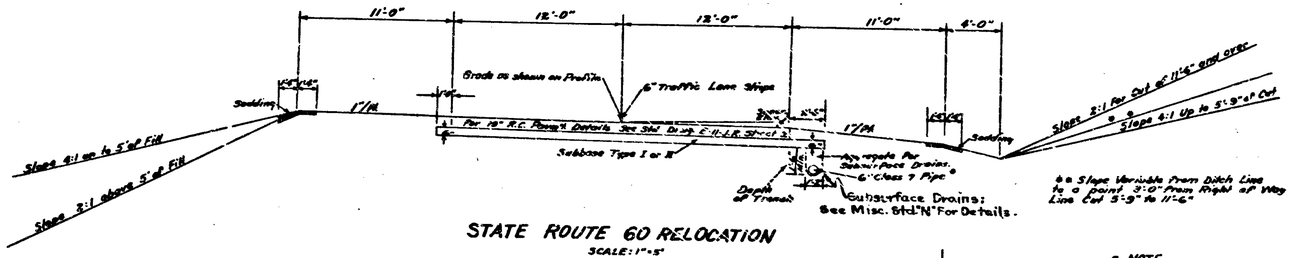
_____
ENGINEER OF ROAD DESIGN, STATE HIGHWAY DEPARTMENT OF INDIANA

FEDERAL ROAD DISTRICT NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	Ind.	I-03-1(9)	1957	5	54

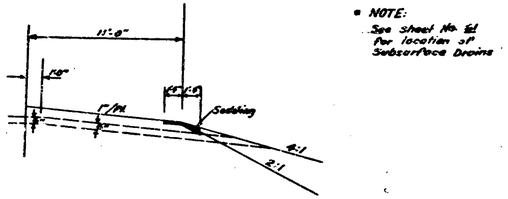
5-19-58	Revised Subsurface Drains.



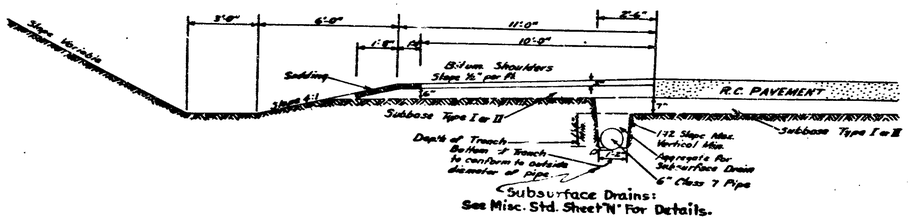
31-W RELOCATION
SCALE: 1" = 4'



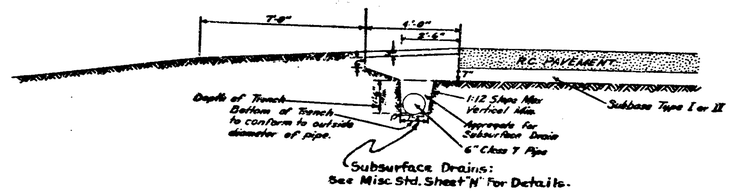
STATE ROUTE 60 RELOCATION
SCALE: 1" = 5'



* NOTE:
See Sheet No. 61 For location of Subsurface Drains



CUT SECTION

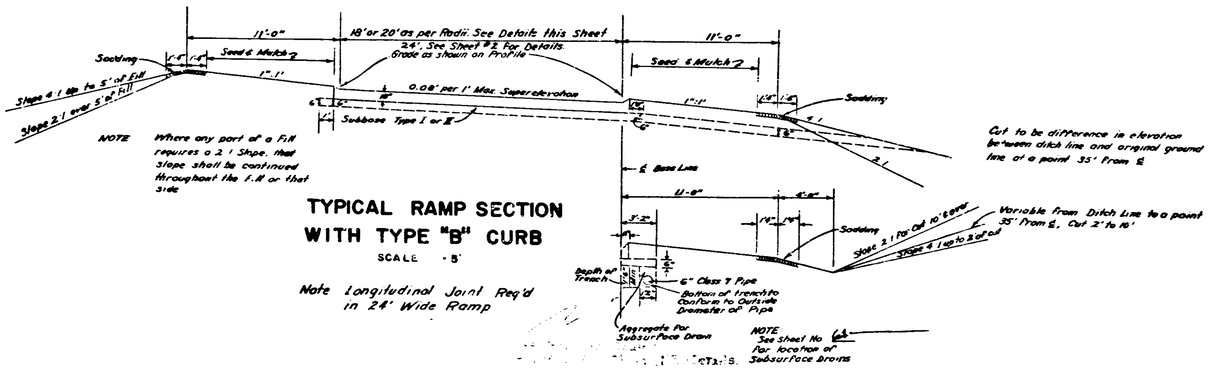


MEDIAN SECTION
INSIDE OF CURVE

SUBSURFACE DRAINAGE
SCALE: 1" = 3'

LPW 10-22-57

FEDERAL ROAD DIVISION NO.	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND.	I-03 1(8)	1957	6	546

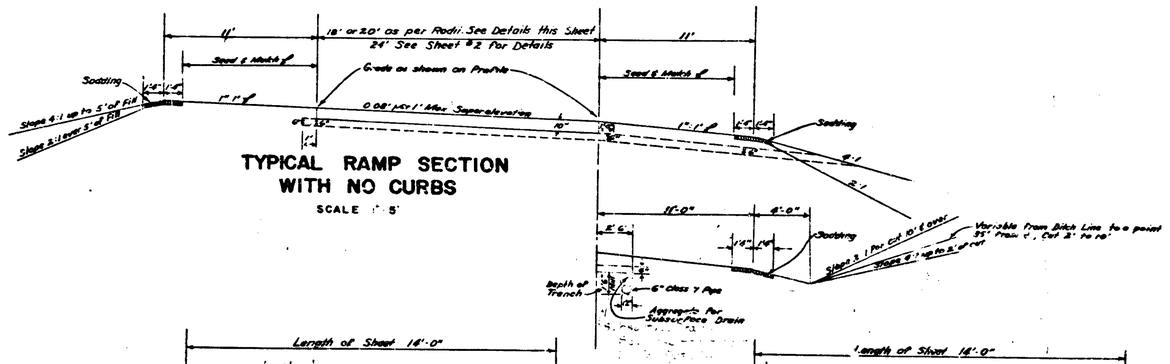


NOTE Where any part of a Fill requires a 2:1 Slope, that slope shall be continued throughout the F.ll or that side

TYPICAL RAMP SECTION WITH TYPE "B" CURB

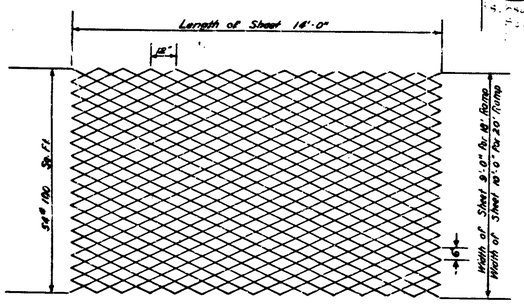
SCALE 1" = 5'

Note Longitudinal Joint Req'd in 24' Wide Ramp

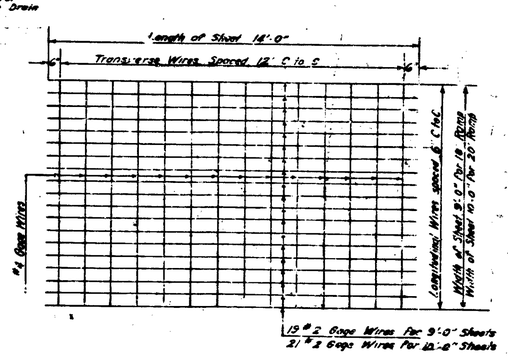


TYPICAL RAMP SECTION WITH NO CURBS

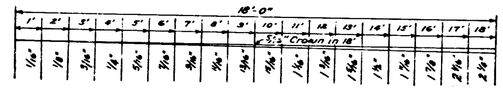
SCALE 1" = 5'



TYPICAL SHEET EXPANDED METAL FABRIC

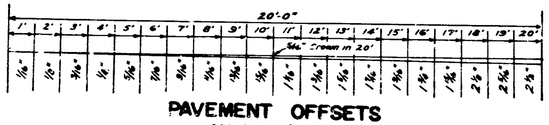


TYPICAL SHEET WIRE FABRIC



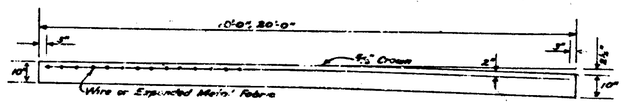
PAVEMENT OFFSETS

SCALE 3/8"=1'-0"



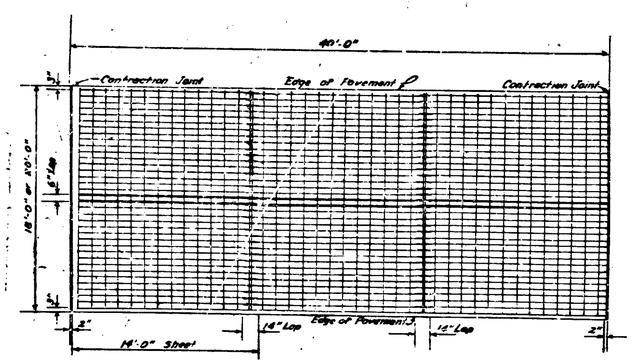
PAVEMENT OFFSETS

SCALE 3/8"=1'-0"



REINFORCED CONCRETE PAVEMENT

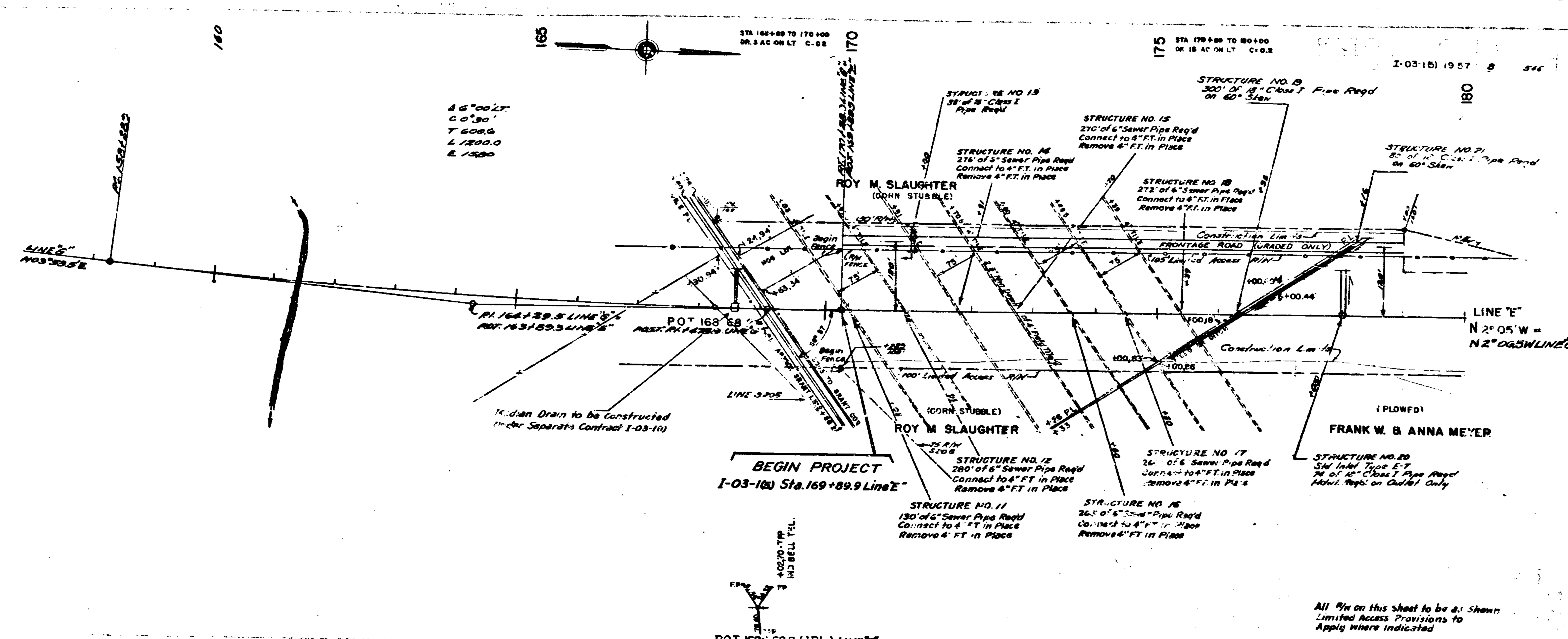
SCALE 3/8" = 1'-0"



PLAN OF REINFORCED CONCRETE SLAB

TYPICAL CROSS SECTIONS

W703 10-24-57



Water Mains - Indiana Gas & Water Co.
New Albany, Indiana

Electric - Public Service Co. of Indiana
New Albany, Indiana

Telephone - Indiana Bell Telephone Co.
New Albany, Indiana

Standard Cross Section E-H-JR Adopted December, 1956 as shown on sheet No. 2 to be used on this project.

Standard Divided Lane Sections Adopted January, 1957 as shown on sheet No. 3 to be used on this project.

Typical Cross Sections as shown on sheets No. 4, 5 & 6 to be used on this project.

State Highway Department of Indiana Standard Specifications dated 1957 to be used with these plans.

Grade line as shown on Profile represents top of finished surface

Standards under Dates as listed in Index on title sheet to be used on this project

Ditches of 1% and over shall be sodded except where Frontage Road fill slope falls on Main Line fill slope. These ditches of ½% and over shall be sodded.

All shoulders, cut and fill slopes shall be plain or mulch seeded except where sodding is specified.

Shoulders are to be sodded as shown on Miscellaneous Standard Sheet "B".

Sodding shall be placed along Paved Side Ditch as shown on Miscellaneous Standard Sheet "E".

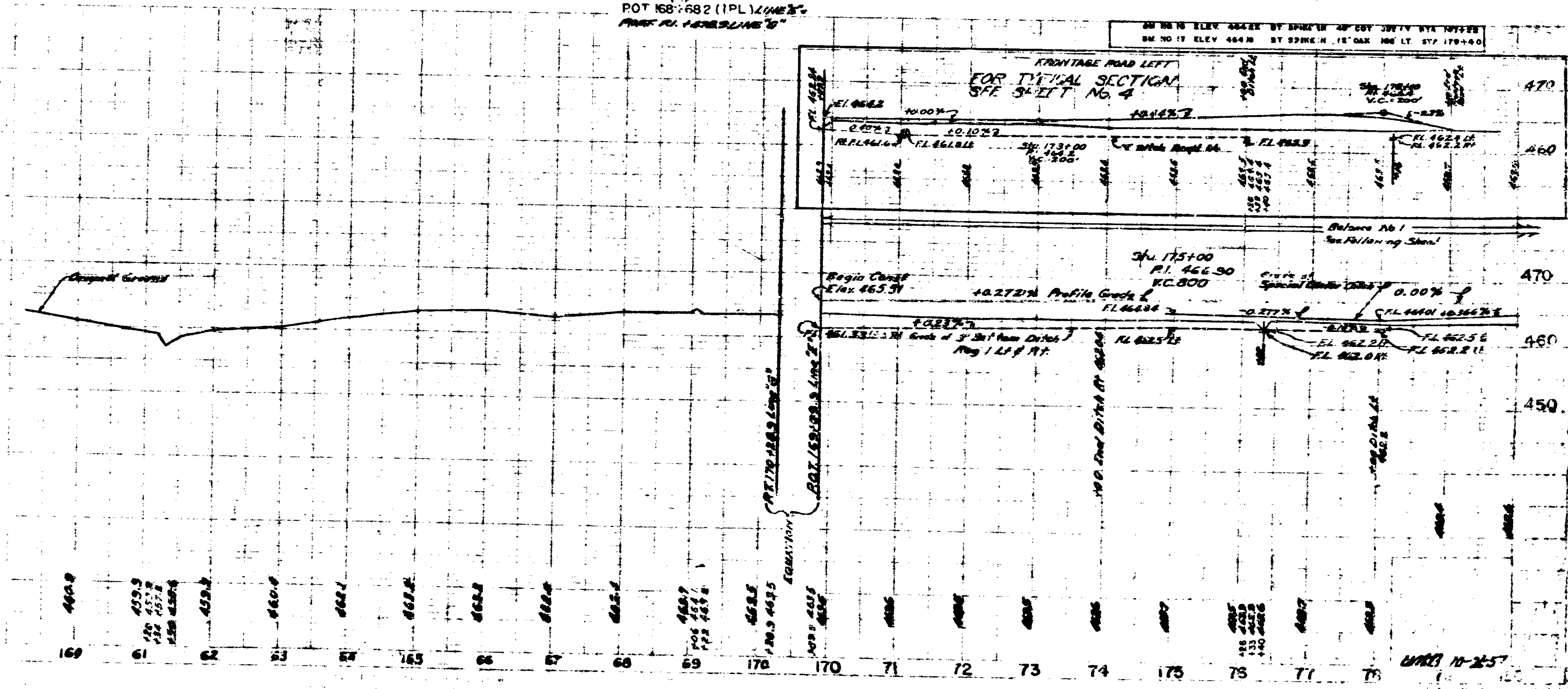
Quantities for Pipe Culvert Headwalls are based on using Standard Headwalls for retaining 2:1 slopes and Private Drive Headwalls for retaining 4:1 slopes.

For kinds of pipe permitted for each size and classification as shown in structure, see Miscellaneous Standard Sheet "F".

Right-of-Way Fence, Chain Link Type, shall be constructed on all Limited Access Right-of-Way

——o——o—— Indicates R/W Fence at locations other than R/W Lines

Excavation Quantities as shown on Plan & Profile sheets include estimated excavation for Private & Public Approaches (See table on sheet No. 64)



F-03-15(5) 1957 S 546

PROPOSED SITE FOR FLOYD CLARK AIRPORT
STA. 169+ — STA. 215 +

STRUCTURE NO. 22
Std. Inlet Type E-7
78' of 12" Class I Pipe Req'd
Hdw'l Req'd on Outlet only.

FRANK W. & ANNA MEYER
(CORN STUBBLE)

100' Limited Access R/W

LINE "E"
N 2° 05' W

POT. 182+39.6

RIM 3

Limited Access R/W

3.5 & 2½ DITCH

58° 04'

+00.71

+00.98

+00.66

+06.90

100' Limited Access R/W

+40.87

1.5% FIELD DITCH

+06.24

150.85

(MEADOW)

FRANK W & ANNA MEYER

STRUCTURE NO. 23
Std. Inlet Type E-7
80' of 12" Class I Pipe Req'd
Hdw'l Req'd on Outlet only.

(WHEAT)

FIELD DR DITCH

+00.65

Construction Limits

STRUCTURE NO. 24
Std. Inlet Type E-7
84' of 12" Class I Pipe Req'd
Hdw'l Req'd on Outlet only.

STA 183+00 TO 200+00
DR 8 AC ON RT. C+O 2

FRANK W. & ANNA MEYER
(PASTURE)

100' Limited Access R/W

LINE E
N 2° 05' W

P.O.T. 204+79.2

100' Limited Access R/W

FRANK W & ANNA MEYER

STRUCTURE NO. 25
Std. Inlet Type E-7
80' of 12" Class I Pipe Req'd
Hdw'l Req'd on Outlet only.

All R/W on this sheet to be as shown
Limited access Provisions to
apply where indicated.

POT 204+79.2 (1PL)

BM NO 18 ELEV 463.43 BT SPK IN 12" OAK 307 RT STA 124+13
BM NO 19 ELEV 463.06 BT SPK IN 30" HACK 300 LT STA 208+12

NO. REF. AVAIL.
P.O.T. 182+37.6 (1 P.L.)

+73.100 4" DUG WELL
163' DEEP

BALANCE No. 1
Cut - 2,135 C.Y.
Fill 85%-20,884 c.y.
Special Borrow - 21,683 c.y.

BALANCE No. 2
Cut - 4886 CY.
Fill 95% - 26,086 c.y.
Special Borrow - 21,700 c.y.

Sta. 201+00
P.I. 466.30
V.C. = 800'

Grade of 3' Bottom Ditch
Neg 4:1 Slope

Grade of 3' Bottom Ditch
Neg 4:1 Slope

Profile Grade

-0.96%

-0.01%

-0.36%

+0.27%

-0.26%

-0.10%

-0.30%

0.00%

480
470
460
450
440

79 180 81 82 83 84 185 86 87 88 89 90 91 92 93 94 195 96 97 98 99 200 01 02 03 04 205 06 07 08 09 210

Nov 18 1957

I-03-1(5) 1957 10 546

STRUCTURE No. 26
Std. Inlet Type E-7
80' of 12" Class I Pipe Reqd.
Hdwl Reqd on Outlet Only

FRANK W & ANNA MEYER

STRUCTURE No. 1
To Be Constructed Under
Seperate Contract

ERNEST & HAZEL BROCK

Grant 66

JESSE P RAILEY

(SWAMP
BRUSH & BRIARS)

LINE "L"
N 2°06'W

LINE "E"
N 2°05'W

POT 212+75.0

POT 215+69.4

POT 221+06.0

POT 222+90.0

POT 223+85.0

POT 224+80.0

POT 225+91.1

POT 231+00.0

POT 235+00.0

JEFFERSONVILLE TWP
SILVER CREEK TWP

STRUCTURE No. 27
266' of 30" Class I Pipe &
One 30"x18" Tee Reqd.
Connect to Structure No. 28
Structure at 45° Skew

STRUCTURE No. 28
Std. Inlet Type E-7
40' of 12" Class I Pipe Reqd.
Connect to Structure No. 27

STRUCTURE No. 29
Std. Inlet Type E-7
108' of 12" BCCMP &
2-22½° Bends Reqd.
Hdwl Reqd on Outlet only.

STRUCTURE No. 30
226' of 18" Class I Pipe Reqd
@ 45° Skew
One 18"x12" Tee Reqd
Connect to Str. No. 31
Coast outlet Ditch

STRUCTURE No. 31
Std. Inlet Type E-7
12' of 12" Class I Pipe Reqd
Connect to Str. No. 30

Sta 183+00 to 200+00
Dr. 9 Ac. on Rt. C-6.2

STA. 200+00 TO 211+50
DR. 25 AC. ON RT. C-10.2

POT 212+75.0 (I.P.L.)

POT 215+69.4 (I.P.L.)

POT 221+06.0 (I.P.L.)

POT 222+90.0

POT 223+85.0

POT 224+80.0

POT 225+91.1 (I.P.L.)

POT 231+00.0 (I.P.L.)

POT 235+00.0 (I.P.L.)

All R/W on this sheet to be as shown
Limited access provisions to
apply where indicated.

BALANCE No. 4
Cut = 608 C.Y.
Fill + 15% = 46,260 C.Y.
Borrow = 45,652 C.Y.
Above Quantities Include 4,016 C.Y.
of Fill within Structure Limits.
Obtain Borrow as Follows:
45,652 C.Y. from Balance No. 5

BALANCE No. 5
(See Following Sheet)

Structure Limits

18.20% -

480
470
460
450
440

08 09 210 11 12 13 14 215 16 17 18 19 220 21 22 23 24 225 26 27 28 29 230 31 32 33 34 235 36 37 38 39 240

I-03-1(5) 1957 11 546

GRANT # 66

STA 231+50 TO STA 279+00
D.F. 340 Ac on Lt. C.L.C.

STRUCTURE No. 36
260' of 6" Sewer Pipe Req'd. Connect to 4" Sewer in Place. Remove 4" Sewer in Place.

STRUCTURE No. 35
Std. Inlet Type E-7
86' of 12" BCCMP Req'd.
12 - 22½° Bends Req'd.
Hdwl Req'd on Outlet only.

STRUCTURE No. 37
348' of 78" Class I Pipe with one 78"x18" Tee, one 78"x18" Wye, & one 78"x12" Tee Req'd. Sharon 45° Skew. Connect to Strs. No. 38 & No. 39 & No 40

STRUCTURE No. 39
20' of 18" Class I Pipe Req'd.
Hdwl Req'd on Inlet only.
Connect to Str. No. 37

STRUCTURE No. 40
20' of 18" Class I Pipe Req'd
Hdwl Req'd on Inlet only.
Connect to Str. No. 37

STRUCTURE No. 41
Std Inlet Type E-7
74' of 12" Class I Pipe Req'd
Hdwl. Req'd on Outlet Only

STRUCTURE No. 38
Std. Inlet Type E-7
32' of 18" Class I Pipe Req'd.
Connect to Structure No. 37

STRUCTURE No. 32
Std Inlet Type E-7
76' of 18" Class I Pipe Req'd.
Hdwl. Req'd on Outlet Only

STRUCTURE No. 33
Std Inlet Type E-7
74' of 12" Class I Pipe Req'd.
Hdwl. Req'd on Outlet Only

STRUCTURE No. 34
Std. Inlet Type E-7
74' of 12" Class I Pipe Req'd.
Hdwl Req'd on Outlet Only.

WILLIAM WILSON
JESSE P. RAILEY
WALTER & SARAH BROADUS
C.W. DOWDLE
AGNES H. MAURER

P.O.T. 242+00.0 (I.P.L.)
P.O.T. 245+75.3 (I.P.L.)
P.O.T. 249+00.0 (LPF)
P.O.T. 250+50.0 (W.H.)
P.O.T. 253+77 (I.P.L.)
P.O.T. 259+85.3 (I.P.L.)
P.O.T. 262+97.2 (W.H.)
P.O.T. 266+00 (I.P.L.)

BALANCE No. 5
Cut = 81,627 c.y.
Fill +15% = 95,975 c.y.
Overhaul = 45,652 c.y.
Overhaul to be used in Balance No. 6

BALANCE No. 6
Cut = 45,092 c.y.
Fill +15% = 58,496 c.y.
Borrow = 19,944 c.y.
Obtain Borrow from Balance No. 8

Note: 65 L.F. Std. Paved Side Ditch Type 'A' Req'd Per Slope Protection as Lt. of Sta. 252+75

Note: Ditch Rt. Plotted 20' Below Datum

Note: 25 S.Y. 18" Hand Laid Rip Rap Req'd Rt. of Sta. 263+53

NOTE:
BETWEEN STA 2 260+30 TO 263+01
THERE ARE APPROX 40 TREES 15" TO 24" 100 FT. R & LT. MOSTLY LOCUST & OAK

All R/W on this sheet to be as shown. Limited access provisions to apply where indicated.

FOR TYPICAL SECTION SEE SHEET No 4

Frontage Road Left

10-21-57

I-03-1(5) 1957
NOTE: Sta 273+00 to Sta 301+00 See Sheets No 25, 26, 27 for Drainage, Curbs, Alignment, & R/W Req'd for S.R. 60 Interchange Area
2815 Lbs Reinf. Steel Req'd for Bridge Approach Slabs Project No. I-03-1(7)
AMOS L. PIXLEY
OTTO F. KOEHLER
JOHN K. & MARY E. LONG
ALICE K. & JAMES H. DIETRICH
LEONARD & WILLA KEMPF
H. MAURER
PASTURE
SOY BEANS
WEEDS
LAWN
Electric - R.E.A.
Δ=10°41' LT.
D= 0°32'
T= 1004.7'
L= 2003.2
E= 46.9
POST 273+82.2
POST 279+00.0
POC 282+00.0 "E"
=POT 0+00 S-I-E
POC 286+50.0
=POT 5+00.0
PI. 283+22.0
PT 293+20.5
LINE "E" N12 46'W
All R/W on this sheet to be as shown Limited access provisions to apply where indicated.
STRUCTURE No. 3 To Be Constructed Under Separate Contract
Frontage Road Left
TYPICAL SECTION SEE SHEET No. 4
BALANCE No. 8 See Following Sheet
BALANCE No. 7
Cut = 136,473 C.Y.
Fill + 15% = 153,277
Borrow = 16,738
Obtain Borrow from Balance No. 8
BALANCE No. 6 See Preceding Sheet
NOTE: 42 L.F. Std. Paved side ditch Type "A" Req'd for Slope protection on Rt. of Sta. 270+00
NOTE: 74 L.F. Std. Paved Side ditch Type "A" Req'd for Slope Protection on Rt.
+0.80%
534 C.Y. Salvage Road Material
490
480
470
500
69 270 71 72 73 74 275 76 77 78 79 280 81 82 83 84 285 86 87 88 89 290 91 92 93 94 295 96 97 98 99 300

I-03-1(5) 1957 18 54C

NOTE:
Sta 273+00 to Sta 301+00
See sheets No. 25, 26, 27,
for Drainage, Curbs, Alignment,
& R/W Req'd For S.R 60
Interchange Area

JOHN K. & MARY E. LONG

JOHN K. & MARY E. LONG

J. NORMAN BECK

J. NORMAN BECK

J. NORMAN BECK

GRANT 68

GRANT 69

CLARK CO PUB SCHOOLS (GIRL SCOUT CAMP)

STRUCTURE 69
Std. Inlet Type E-7
74' of 12" Class 1 Pipe Req'd.
Hdwl. Req'd. on Outlet Only.

STRUCTURE No. 70
Std. Inlet Type E-7
74' of 12" Class 1 Pipe Req'd.
Hdwl. Req'd. on Outlet Only.

STRUCTURE NO. 71
Std. Inlet Type E-7
216' of 18" Class 1 Pipe Req'd
at 45° Skew.
Const. Inlet Ditch.

STA. 311+00 TO 328+50
DR. 10 AC. ON LT. C=0.3

Ditch Ahead on Rt.
STA 311+00 TO 313+00
DR. 15 AC. ON RT. C=0.4

All R/W on this sheet to be as shown
Limited access provisions to
apply where Indicated

LINE "E" N 12°46'W

POT 306+87.1

POT 311+66.1

POT 320+14.9

POT 324+79.2

POT 329+62.1

BALANCE No. 8
Cut = 46,803 C.Y.
Fill +15% = 4821 C.Y.
Overhaul = 40,482 C.Y.
Added Haul = 19,344 Units
Above Overhaul to be used
As Follows —
13,344 C.Y. to Balance No. 6
26,798 C.Y. to Balance No. 7

BALANCE No. 9
Cut = 41,495 C.Y.
Fill +20% = 2,385 C.Y.
Overhaul = 38,912 C.Y.
Added Haul = 45,660 C.Y. 21,580
Above Overhaul to be used
As Follows —
17,332 C.Y. to Balance No. 10
21,580 C.Y. to Balance No. 12

BALANCE No. 10
See Following Sheet

BM. NO. 32 ELEV. 505.91 ST. SPIKE IN 22" OAK 170' LT. STA. 318+28.
BM. NO 33 ELEV. 500.73 ST SPIKE IN 12" OAK 220' LT. STA. 319+30
BM. NO 34 ELEV. 496.67 ST. SPIKE IN 18" TW. W. CHERRY 135' LT. STA. 320+20

427 S.Y. Sodding Req'd For Ditch on Lt.

256 S.Y. Sodding Req'd For Ditch on Lt.

240 S.Y. Sodding Req'd For Ditch on Lt.

182 S.Y. Sodding Req'd For Ditch on Lt.

NOTE 10 S.Y. of 12" Hand Laid Rip Rap Req'd. Rt. at Sta. 316+80

NOTE 15 S.Y. of 12" Hand Laid Rip Rap Req'd. Rt. at Sta. 318+05

Units 10-26-57

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STA. 333+00 TO 339+80 DRAIN 30 AC ON LT. C=0.4
STA. 339+50 TO 347+80 DRAIN 120 AC. ON LT. C=0.4
STA 347+50 TO 352+00 DRAIN 1500 AC. ON LT. C=0.4
STRUCTURE No. 72
Std. Inlet Type E-7
72' of 12" Class I Pipe Req'd.
Hdwl. Req'd. on Outlet Only
STRUCTURE No. 73
222' of 36" Class I Pipe Req'd
Structure at 45° Skew
STRUCTURE No. 7
Std. Inlet Type E-7
90' of 12" Class I Pipe Req'd.
Hdwl. Req'd. on Outlet Only.
STRUCTURE No. 76
Std. Inlet Type E-7
76' of 12" Class I Pipe Req'd.
Hdwl. Req'd. on Outlet Only
STRUCTURE NO. 79
404' of 117"X79" Bitum. Coated Structural Plate Pipe Arch Req'd @ 30° Skew. 10 gage section modulus .0732 in³ Construct in two parallel lines. Special Pipe Anchors Req'd See Detail on sheet No 61
STRUCTURE NO. 80
Std. Inlet Type E-7
76' of 12" Class I Pipe Req'd
Hdwl. Req'd on Outlet only
STRUCTURE NO. 83
Std. Inlet Type E-7
74' of 12" Class I Pipe Req'd.
Hdwl. Req'd on Outlet only
J. NORMAN BECK
ROBERT KOPP LEONARD
JOHN C. & PEARL MILLER
GEO. C. & AILEEN E. KOPP
GEO. C. & AILEEN KOPP
GRANT 89
GRANT 110
100' Limited Access R/W
Construction Limits
18' FRONTAGE ROAD (Bituminous Surface)
Line E
P.O.T. 329+62.1
P.O.T. 331+01.4
P.O.T. 334+03.2
O.P.O.T. 18' LT.
P.O.T. 335+61.8
O.P.O.T. 8' LT.
P.O.T. 337+18.4
O.P.O.T. 18' LT.
P.O.T. 338+47.6
O.P.O.T. 18' LT.
P.O.T. 340+30.0
P.O.T. 342+50.0
P.O.T. 349+08.9
P.O.T. 351+43.9
P.O.T. 352+38.5
P.O.T. 0+00 S-4-E
P.O.T. 355+00.0
P.O.T. 358+79.7
JOHN C. & PEARL MILLER
YOUNG TIMBER & BRUSH
WOODS
C. NC. & TILE HOUSE
TRUCK PATCH
FLOWER GARDEN
150' R/W
165' R/W
NOTE:
Class II Private Drive Req'd Rt. Sta. 333+00
See Sheet No. 64
STRUCTURE No. 74
108' of 48" Class I Pipe Req'd.
Structure on 60° Skew
STRUCTURE No. 77
Std. Inlet Type E-7
80' of 12" Class I Pipe Req'd
Hdwl. Req'd on Outlet Only
STRUCTURE NO. 78
148' of 117"x79" Bitum. Coated Structural Plate Pipe Arch Req'd. @ 30° Skew. 10 gage section modulus .0732 in.³ Construct in two parallel lines. Special Anchors Req'd. See Detail on Sheet No. 61
STRUCTURE NO. 81
40' of 18" Class I Pipe Req'd
NOTE
See Sheet No. 22 for Plan Profile and R/W for Line S-4-E
References ?
STRUCTURE No. 84
24' of 12" Class I Pipe Req'd
NOTE
Class D Private Drive Req'd Rt. Sta. 358+00
See Sheet No. 64
All R/W on this Sheet to be as shown Limited Access Provisions to apply where Indicated.
P.O.T. 329+62.1 (I.P.L.)
P.O.T. 331+01.4 (I.P.L.)
P.O.T. 334+03.2 (I.P.L.)
O.P.O.T. 18' LT. (W.H.)
P.O.T. 335+61.8 (W.H.F.)
O.P.O.T. 18' LT.
P.O.T. 337+18.4 (I.P.L.)
O.P.O.T. 18' LT. (W.H.F.)
P.O.T. 338+47.6 (I.P.L.)
O.P.O.T. 18' LT. (W.H.)
P.O.T. 340+30.0 (I.P.L.)
P.O.T. 342+50.0 (I.P.L.)
P.O.T. 349+08.9 (I.P.L.)
P.O.T. 351+43.9 (I.P.L.)
P.O.T. 355+00.0 (I.P.L.)
P.O.T. 358+79.7 (I.P.L.)
Profile Frontage Road Rt
For Typical Section See Sheet No. 4
Sta. 334+58 P.I. 467.00 V.C. = 200'
Sta. 339+00 P.I. 467.00 V.C. = 400'
Sta. 349+00 P.I. 467.80 V.C. = 400'
Sta. 357+00 P.I. 502.50 V.C. = 200'
0.6% / 0.6%
End Frontage Rd.
BM No. 35 ELEV. 478.68 ST. SPIKE IN 10" HICKORY 180' RT. STA. 345+25
BM No. 36 ELEV. 463.74 ST. SPIKE IN 12" OAK 110' RT. STA. 341+85
BM No. 37 ELEV. 469.33 ST. SPIKE IN 24" OAK 100' RT. STA. 347+00
BM No. 38 ELEV. 473.96 ST. SPIKE IN 18" WALNUT 125' RT. STA. 350+85
BM No. 40 ELEV. 498.96 ST. SPIKE IN 24" MAPLE 300' RT. STA. 356+00
BM No. 41 ELEV. 498.80 ST. SPIKE IN 20" HICKORY 105' RT. STA. 361+75
25 L.F. STEEL BERM
Grade of Special Center Ditch
Grade of 3' Bottom Ditch Req'd Lt.
-1.97%
520 S.Y. Sodding Req'd for Ditch
12.5' Shoulder Req'd Lt
490 L.F. Std. Guard Rail Req'd Lt.
12.5' Shoulder Req'd Rt
176 L.F. Std. Guard Rail Req'd Rt
12.5' Shoulder Req'd Lt.
Sta. 346+50 P.I. 462.14 V.C.
+2.00%
+1.6%
784 S.Y. Sodding Req'd for Ditch on Rt
184 S.Y. Sodding Req'd For Ditch on Lt.
195' Std. Paved Side Ditch Type A Req'd Rt.
175' Std. Paved Side Ditch Type A Req'd Lt.
BALANCE No. 10
CUT = 19,785 c.y.
FILL + 10% = 37,087 C.y.
Borrow = 17,382 C.y.
Obtain Borrow From Balance No. 9
BALANCE No. 11
Cut = 71,621 c.y.
Fill + 10% = 45,013 c.y.
OVERHAUL = 26,608 c.y.
Note: Includes Cut & Fill Quantities for Line S-4-E
Above Overhaul to be used in Balance No. 12.
500 490 480 470 460
28 29 330 31 32 33 34 335 36 37 38 39 340 41 42 43 44 345 46 47 48 49 350 51 52 53 54 355 56 57 58 59 360
10-31-57

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STA 359+00 TO 4+50 LINE "P"
DR 35 AC ON I.T C 0.4

STRUCTURE NO. 86
194'of 36" Class I Pipe

NOTE:-
Sta. 367+00 Line "E" to Sta. 20+00 Line "P"
See Sheets No. 39, 40, 41 For
Drainage, Curbs, Alignment, &
R/W Required For I.R. 31-W
Interchange Area.

7884 Lbs. Reinf. Steel Reqd
for Bridge Approach Slabs
Project No. I-03-1(6)

STA 4+30 TO 28+30
INCLUDING DR FROM PT
AT STA 12+60
DR 340 AC ON I.T 8 PT - C 0.5

JOHN C & PEARL MILLER
J M HIGDON
FAIRVIEW ADDITION
EZRA RIGGLE
OTTO WEBBER
JAS JR & MARJORIE A WEEK
MARY LAVERY
THERESA & FERDINAND ENDERS
JOHN L LAVERY
ALTON & IDA CARR
LON PARROTT
J M HIGDON

Limited Access R/W
Construction Limits
LINE "E"
LINE "P"
N 12°46' W
POT 360+82.7
POT 365+90.3
POT 0+00.0
POT 4+55.6
POT 6+76.0
POT 8+10.1
POT 15+26.3
(SOY BEANS)
(PASTURE)
FIELD ENT
DITCH

STRUCTURE NO. 85
Sta. Inlet Type E-7
74'-of Class I Pipe Reqd.
R&W'l Reqd on Outlet only.

STRUCTURE NO. 3
To be constructed
under separate contract

EQUATION
POT 372+29.7 LINE "E"
= POT 1+00.0 LINE "P"
= POT 5+00.0 LINE "S-E"

Electric - Public Service Co. of Indiana
Water - Sellersburg Water Co.
Sellersburg, Indiana.

All R/W on this sheet to be as shown.
Limited access provisions to
apply where Indicated.

POT 350+79.7
POT 360+82.7 (I.P.B)
POT 365+90.3 (I.P.L.)
POT 0+00.0 (RN) S 3 E
POT 5+00.0 LINE S 3 E
POT 8+00.0 (RN) S-3-E
POT 6+76.0 (I.P.L.)
POT 8+10.1 (I.P.F.)
POT 15+26.3 (I.P.L.)

EQUATION
POT 372+29.7 (RN) LINE "E"
POT 1+00.0 LINE P
POT 5+00.0 LINE S 3 E

BM NO. 1 EL 489.48 X CUT IN W COR CONC WALK 140' RT STA 1+38
BM NO. 2 EL 505.33 RT SPK IN 8" LOCUST 122 LT STA 5+75
BM NO. 3 EL 469.69 RT SPK IN 10" LOCUST 103 LT. STA 8+00

Balance No. 11
See Preceding Sheet

Balance No. 12
Cut = 194,781 C.Y.
Fill + 20% = 219,775 C.Y.
Borrow = 84,994 C.Y.

Balance No. 13
See Following Sheet

Above Balance Include 9825 C.Y. of P.U. on Structure Limits

Obtain Borrow As Follows:
21,580 C.Y. From Balance No. 9
26,608 C.Y. From Balance No. 11
36,806 C.Y. From Balance No. 12

Above Quantities Include Cut & Fill
For 3" of Turf Exchange, Reduced For R.R.'s, etc.

Note: 20 S.Y. of 12" Hand Laid Rip Rap Reqd Lt of Sta 363+82

Note: 20 S.Y. of 12" Hand Laid R.P. Rap Reqd Lt of Sta 366+50

24 LF. Steel Beam G.R. Reqd Lt Per Permanent Barricade

12.5' Shoulder Reqd Lt
352 L.F. Std. Guard Rail Reqd Lt
12.5' Shoulder Reqd Rt.
304 L.F. Std. Guard Rail Reqd Rt.
335 L.F. 3H Paved Side Ditch Type "A" Reqd on Right
365 L.F. 3H Paved Side Ditch Type "A" Reqd on Left
567 S.Y. Sodding Reqd For Ditch Lt.

Grade of 3' Bottom Ditch Reqd Lt 3" min Berm
Grade of 3' Bottom Ditch Reqd Rt 3" min Berm
Grade of 3' Bottom Ditch Reqd Rt 3" min Berm

+8.37 7%
-3.96 3%
-4.07%
+1.65%
-0.90%

EQUATION
STA 372+29.7 LINE "E"
= STA 1+00.0 LINE "P"

SEPARATE CONTRACT
Structure Limits

12.5' Shoulder Reqd Lt.
12.5' Shoulder Reqd Rt.

Sta. 8+00
Elev. 495.54
V.C. = 800'

Sta. 14+00
Elev. 488.34
V.C. = 800'

267 Cu Yds Salvage Road Mat'l.
3,840 S.Y. Pavement Removal

510
500
490
480
470

DATE 12-X-57

Revised 1-4-58
Patents Pending

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Sta 41+00 to 42+00
Dr 60 AC on Lt C 0.4

REV 9-10-57

Structure Added, 7-1-57

NOTE:
Sta 367+00 Line "E" to Sta 20+00 Line "D"
See Sheets No. 39, 40, 41 for drainage, Curbs, alignment & R/W Required For U.S. 31-W Interchange area

STRUCTURE No 130 A
14 of 6 Sewer Pipe, required as conduit to Water Pipe Line

STA 28+00 TO 41+00
DR. 35 AC LT C-0.4

STRUCTURE No. 132
150' of 36" Class T Pipe & One 36"x12" Tee Reqd.
Connect to Str. No. 131.

Note
Class V private drive Reqd
Lt. Sta 42+00 See Sheet No. 64

STRUCTURE NO. 133
44' of 36" Class I Pipe Reqd.

STRUCTURE No. 135
24' of 12" Class I pipe Reqd.

STRUCTURE NO 137
62' of 42" Class T Pipe Reqd on 15° Skew

STRUCTURE NO. 136
176' of 42" Class T Pipe & One 42"x12" Tee Reqd @ 15° Skew. Construct Outlet Ditch Connect to Str. No. 138

ROY R. & EDNA K. PRATHER

(SOY BEANS)

GRANT NO 129

FRED & MARGARET RENZ

GRANT NO 110

ROY R & EDNA K. PRATHER

LINE "P"

N 12°46 W

N 0°14 E

POT 15+26.3

POT 18+77.2

OPOT 18+77.2-10' RT

POST 25+42 (Limited Access R/W)

OPOST 25+42.7-10' RT

POST 25+249

OPOST 25+249-10' RT

POST 26+316

OPOST 28+316-10' RT.

PI 40+53.6

150' R/W

Construction Limits

18' Frontage Road

100' Limited Access R/W

Limited Access R/W

STRUCTURE No. 138
Std. Inlet Type E-7
188' of 18" Class I Pipe on 45° Skew Lft. Construct Outlet Ditch.

PC 24+21.3

STRUCTURE NO
12' of 6" Sewer Pipe Reqd to terminate 6" P.T. Remove 4" K.T. in place

NOTE
BETWEEN STA 35 & 37
THERE IS LOW MARSHY GROUND

STRUCTURE NO. 131
Std. Inlet Type E-7
20' of 12" Class I Pipe Reqd
Connect to Str. No. 132

STRUCTURE NO. 134
Std. Inlet Type E-7
74' of 12" Class I Pipe Reqd.
Hdw'l Reqd. on outlet only

STRUCTURE NO 138
Std. Inlet Type E-7
80' of 12" Class I Pipe Reqd
Connect to Str. No 136

Δ = 13°00'
D = 0°24'
T = 1632.9
L = 3250.0
E = 92.75

All R/w on this sheet to be as shown. Limited access provisions to apply where indicated

4" OAK
24"x5" JUMP
14.16
0°00
04.90
2" HICKORY

POT 15+26.3 (1 PL)

NO REF AVAIL

POT 18+77.2 (1 PB)
OPOT 18+77.2-10' RT (WHF)

STA 19+00 TO 20+00
DR. 6 AC. RT C-0.3

PC 24+21.3 (1 PB)

POST 25+24.9 (1 PL)
OPOST 25+24.9-10 RT. (WHF)

POST 25+42.7 (1 PL)
OPOST 25+42.7-10' RT (WHF)

NO REF AVAIL

POST 28+316 (1 PB)
OPOST 28+316-10' RT (WHF)

PI 40+53.6 (1 PL)

BM NO 5 EL 509.21 BT SPIKE IN ROOT 11" CHY 200' RT STA 38+60
BM NO 6 EL 491.69 BT SPIKE IN 24" TWIN POP 135' RT STA 38+30

Balance No. 13
Cut 65,882 C.Y.
Shrink 20% = 17,168 C.Y.
Over haul = 48,714 C.Y.
Borrow (Pit) To Be Used as follows:
30,806 C.Y. to Balance No. 12
16,908 C.Y. to Balance No. 14

Balance No. 14
Cut 23,500 C.Y.
Fill 20% = 19,958 C.Y.
Borrow = 39,788 C.Y.
Obtain Borrow as follows:
16,908 C.Y. from Balance No. 13
19,966 C.Y. from Balance No. 15
C.Y. Haul = 14,914 C.Y.
Addedhaul = 14,914 Units
14,914 C.Y.S. Addedhaul to be used in Bal. No. 16

39,788 C.Y.S.
24,374 C.Y.S.

Sta. 29+50
P.I. 501.84
V.C. 800'
+1.00%
-0.70%
EL. PK 499.6
(EL. LK 498.3)

Sta. 16+00
P.I. 488.34
V.C. = 800'

Sta. 27+15a
P.I. 503.82
V.C. = 200'
-0.63%

Sta. 43+00
EL. 491.39
V.C. = 800'

Profile Frontage Road Left
For Typical Section See Sheet No. 4.

Revised 9-11-57

10-21-57

STA. 41+00 TO 46+00
DR. 60 AC. ON LT. C·0.4

STA. 46+00 TO 82+00
DR. 60 AC. ON LT. C·0.4

Rev. 9-4-56
Grade Changes & R/W Change

I-03-1(5) 957 FT 846
R V 9-10-57

NOTE
Class II Private Drive
Reqd Lt Sta 45+00
See Sheet No 66

STRUCTURE No. 139
28 of 12" Class I
Pipe Reqd.

STRUCTURE No. 141
146' of 92" Class I Pipe Reqd
on 45° Skew Rt.
Construct Jetted Ditch

STRUCTURE No. 143
Std. Inlet Type E-7
78'-9" of 12" Class I Pipe Reqd
Headwall Reqd on Outlet only.

STRUCTURE No. 4
To be Constructed
under separate
Contract

WM. H. & TILLIE E. DOUGHERTY

CARL DIETRICH

WALTER J. & C. M. McCONNELL

JOHN CONROY

GRANT'S

MARY M. DIETRICH

KATHRYN & JOS. ROSEN

TRUSTEES
CHURCH OF CHRIST

MELVIN CURTIS
WM. H. & TILLIE E. DOUGHERTY

STRUCTURE No. 140
Std. Inlet Type E-7
76'-6" of 12" Class I Pipe Reqd
Headwall Reqd on Outlet only.

STRUCTURE No. 142
Std. Inlet Type E-7
78'-9" of 12" Class I Pipe Reqd
Headwall Reqd on Outlet only.

COUNTY RD. (OIL MAT)

LINE "P"

POST (PI+1596)

POST (PI+7369')

POST (PI+7369') I PL

POST (PI+1159.5') W.H.F.

PT. 56+71.3

POT 60+98.5

POT 62+15.4

POT 63+71.7 (1 PB)

POT 0+00.0 "S-I-P"

POT 66+61.0 (1 PB)

POT 72+00.0

POT 72+000 (1 PB)

POT 74+99.9 (1 PB)

POT 60+98.5 (1 PB)

POT 62+15.4 (1 PB)

POT 63+71.7 (1 PB)

POT 66+61.0 (1 PB)

Δ = 13°00'
D = 0°24
T = 1632.3
L = 3250.0
R = 9275

All R/w on this sheet to be as shown
Limited access provisions to
apply where indicated.

NOTE: For Additional
R/W Req'd. See Sheet
No. 17A.

STA. 82+00 TO 63+71.7
DR. 1 AC. ON RT. C·0.8

LINE "S-I-P"
S 69° 58' E

Balance No 14
See Preceding
Sheet

17.5 L.F. Steel Beam & Rail to be Permanently Reinforced

8.82 S.Y. Sodding Reqd Per Ditch on Rt.

3.86 S.Y. Sodding Reqd Per Ditch on Lt.

Sta. 55+50
P.I. 498.76
V.C. 800'

Profile Frontage Road Left

Sta. 66+08
P.I. 502.28
V.C. = 280'

100' End Frontage Road Left

37 C.Y. Salvaged Road Material

Frontage Road Pt
For typical Section
See Sheet No. 14

73+75
P.I. 483.18
V.C. = 280'

1404 S.Y. Sodding Reqd Per Ditch on Lt

1710 S.Y. Sodding Reqd Per Ditch on Rt

Balance No 15
See Following Sheet

Balance Note
Cut 89,018 C.Y.s.
Fill 6,244 C.Y.s.
Borrow
Adjustment
67,949 (82,615 C.Y.s. ... to balance the ...)

Lift for Pavement Ditch Reqd Lt Trans. See Next Sheet

Sta. 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75

WMB 10-31-57

Revised 9-4-58
Grade Changes & Gen. Changes
Misc. Structure No 184 Added.

I-83-1(5) 1957 18

Rev. 8-14-59 BALANCES

STRUCTURE No. 184
16'STANDARD RC Culvert (Slab Top Without Fill)
Height 14' Use Abutments for 20' Span, 13'6" Depth
Changes Reqd in Std RC Culvert Slab Top Type
16'-20' Spans, Without Fill, Square Ends, Dated May 1, 1956
For Military Loading Length 13'. Wings @ 30°
Superstructure.
1. Change Slab Top Thickness "E" from 12'6" to 14"
2. Change Bars B1 & B2 from "B" @ 12" to "B" @ 7"
3. Change bending diagram for Bar B1
b1. No Change. b2. Change 14'-8½" to 14'-2½"
b2. Change 11'-1" to 11'-4" b4. Change 9¾" to 10¾"
Hook Change 10" to 11½"
Length Change 20'-6" to 20'-11"
4. Change Hook Bar B2 from 10" to 11½"
Change Length Bar B1 from 13'-10" to 13'-5½"
ZE4455 2 Items Affected

STRUCTURE No. 185
Std. Inlet Type E-7
104'-10" of 18" Class I Pipe Reqd.
Connect to Structure No. 184
Hdwl. Reqd on Outlet only.

STRUCTURE No. 147
Std. Inlet Type E-7
80'-10" of 12" Class I Pipe Reqd.
Hdwl Reqd on Outlet only

STRUCTURE No. 149
Std. Inlet Type E-7
66'-8" of 12" Class I Pipe Reqd.
Hdwl Reqd on Outlet only

Structure No 149A
Std. Inlet Type E-7
90'-8" of 12" Class I Pipe Reqd.
Hdwl Reqd on Outlet only
Not in This Contract

STRUCTURE No. 151
Std. Inlet Type E-7
65'-8" of 12" BCCMP 2 2/3" Bends
Reqd. Hdwl. Reqd on Outlet only

STRUCTURE No 153
184'-8" of 6" Sewer Pipe Reqd
Connect to 5" F.T. in place
Remove 5" F.T. in place

STRUCTURE No 150
210'-8" of 6" Sewer Pipe Reqd
Connect to 6" F.T. in place
Remove 6" F.T. in place

STRUCTURE No 148
24'-8" of 12" Class I Pipe Reqd.

STRUCTURE No 184-A
26'-8" of 36"X22" BCCM. Pipe-Arch Reqd.

STRUCTURE No 152
Inlet E 25'-10" Slum. Corted Corr. Metal Pipe Arch Reqd
Corr. Metal Pipe Arch Reqd
Corrugated Outlet Ditch

Structure No 5
Not in This Contract
TO BE CONSTRUCTED UNDER SEPARATE CONTRACT

JOHN CONROY
GRANT 129

ELLA ELIZABETH GREEN

LENA GRACE KREAMER

MARY M DIETRICH
GRANT 130

HENRY & MARIAN WEBER

GEORGE R. HAAS
GRANT 130

CEMETERY

Frankes Road (Township)

Temp. Rte Reqd for Ch. Ch.

Base R/W 2

120' Limited Access R/W 2

150' Limited Access R/W 2

105' Limited Access R/W

100' Limited Access R/W

Line 'P' N 0°14'E

Profile Frontage Road Rt. FOR TYPICAL SECTION SEE SHEET No. 14

STA. 83+00 P.I. 471.00 V.C. = 200'

STA. 79+00 P.I. 465.02 V.C. = 200'

STA. 79+75 P.I. 465.68 V.C. = 200'

Ext. Ditch Reqd Rt. 8' Min. Berm

Sta 87+70 P.I. 471.21 V.C. = 600'

40' 1 Ft Paved Side Ditch Reqd Lt. TYPE "A"

BALANCE No. 16
Cut = 5078 C.Y.
Fill = 81,065 C.Y.
Borrow = 89,017 C.Y.
Special Borrow 36,525 C.Y.
12,778 CYS.
107,569 CYS.
94,791 CYS.
11,928 CYS. obtained from Balance No. 13.
14,914 CYS. obtained from Bal. No. 14
67,949 CYS obtained from Bal. No. 15

BALANCE No. 15
CUT = 400 C.Y.
FILL 10% = 40 C.Y.
SPECIAL BORROW = 360 C.Y.
12,525 C.Y. to be obtained from Bal. No. 16.

TOP OPENING ELEV. 479.00

Grade of RS.T. Reqd Rt.

Grade of 3' Bottom Ditch Reqd Rt

FL. RA. ELEV. 465.00 @ FRONTAGE RD. GRADE AT CULVERT.

Grade of 3' BOTTOM DITCH Reqd Rt. & Lt. 8' Min. Berm.

Grade of 3' Bottom Ditch Reqd Rt. & Lt. 8' Min. Berm.

Grade of 3' Bottom Ditch Reqd Lt. 5' Min. Berm.

140 Lft. of RS.D. Reqd. Rt. TYPE "A"

Structure Limits

All R/w on this sheet to be as shown. Limited access provisions to apply where indicated.

BM NO. 11 ELEV. 467.92 ST. SPIKE 12" 6" MAPLE 1.0 RT. STA. 87+43
BM NO. 12 ELEV. 462.40 ST. SPIKE IN 10" ELM 99' RT. STA. 95+60
BM NO. 13 ELEV. 460.67 ST. SPIKE IN 8" APPLE, 128' RT. OF STA. 100+80

NOTE: Class II Private Drive Reqd Rt Sta 86+18 See Sheet No 64

PROFILE

STA 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 01 02 03 04 105

I-03-1(5) 1957 19 sac

Rev. 8-14-59 BN. ANCES.

Ansan Branch
1050 Acres on Lt. C=0.46

Structure No. 156
360 of 150"x37" Bitum Coated Structural Plate Pipe Arch Req'd. 6 Ag" Thick
8 Gage, Section 2 Modulus, 0.388 in³
Special Pipe Anchors Req'd.
See Sheet No. 61

GEORGE R HAAS

STRUCTURE NO. 154
Std. Inlet Type E-7
86' of 12" BCCMP &
2 22½° Bends Req'd.
Hdw'l Req'd on Outlet only

GEORGE R & LOUISE HAAS

STRUCTURE NO. 157
Std. Inlet Type E-7
86' of 12" BCCMP &
2 22½° Bends Req'd
Hdw'l Req'd on Outlet only

STRUCTURE NO 160
130' of 6" Sewer Pipe Required
Connect To 5" F.T. in Place
Remove 8" C.C. in Place

STRUCTURE NO. 161
162' of 29"x 18" Bitum Coated Corr. Metal Pipe Arch And One 29"x 18"x 18" Tee Req'd. Connect to Str. No 162

GEORGE R. & LOUISE HAAS

STRUCTURE NO. 162
Std. Inlet Type E-7
22' of 12" RCCMP Req'd.
Connect to Str. No 161

WM. & EMMA KREAMER

STRUCTURE NO. 164
Std. Inlet Type E-7
80' of 12" Class I Pipe Req'd.
Hdw'l Req'd on Outlet only

STRUCTURE NO. 163
Std. Inlet Type E-7
76' of 12" Class I Pipe Req'd
Hdw'l Req'd on Outlet only

GEORGE R HAAS

STRUCTURE NO 155
250' of 6" Sewer Pipe Required
Connect To 4" F.T. in Place
Remove 4" F.T. in Place

GEO. R & LOUISE HAAS

STRUCTURE No. 158
800' of 6" Sewer Pipe Required
Connect To 4" F.T. in Place
Remove 4" F.T. in Place

STRUCTURE NO 159
Std. Inlet Type E-7
78' of 12" Class I Pipe Req'd
Hdw'l Req'd on Outlet only

WM. & EMMA KREAMER

Structure No 6
To be Constructed under Separate Contract

Note: See Sheet No. 29 for Additional R/W Req'd.

All R/W on this sheet to be as shown Limited access provisions to apply where indicated.

P.O.T. 109+16.6 (I.P.B.)

P.O.T. 120+14.7 (I.P.B.)

P.O.T. 125+00.0 (I.P.B.)

BM No. 13	ELEV. 460.97	BM SPIKE IN 8" APPLE LOG, RT. STA. 100+66	
BM No. 14	ELEV. 461.72	RT. SPIKE IN 24" OAK	73' RT STA 110+00
BM No. 15	ELEV. 464.16	RT SPIKE IN 6" ASH	90' LT. STA. 126+97
BM No. 16	ELEV. 468.56	RT. SPIKE IN 16" BEECH	20' RT. STA. 138+00

Balance No. 17
See Preceding Sheet

Balance No. 19
Cut = 594 C.Y.
Fill 120% = 76,468 C.Y.
Borrow = 73,118 C.Y.
Special Borrow = 3,350 C.Y.
Obtain Borrow From Balance No. 19

Balance No. 19
Cut = 123,020 C.Y.
Fill 130% = 45,906 C.Y.
Over Haul = 28,117 C.Y.
Over haul to be used as follows:
73,118 C.Y. to Embankment
4,789 C.Y. to Balance No. 18
Above Balance Includes:
1,163 C.Y. Fill within Structure Limits
12,283 C.Y. Fill For Levee Line Y2, I.P.
182,815 C.Y. Cut For Channel Change & Levee Tie-In Cuts
See Sheets No. 23 & 24 For Plan & Profile of Ch. Ch.

See Preceding Sheet For Guard Rail Rt
See Preceding Sheet For Guard Rail Lt

Structure Limits

Profile Grade

Grade of 3' Bottom Ditch Req'd Lt 5' Min. Berm

Grade of 3' Rolling Ditch Req'd Lt

Grade of 3' Bottom Ditch Req'd Lt 5' Min. Berm

Balance No. 18

Balance No. 19

Balance No. 20

03 04 105 06 07 08 09 110 11 12 13 14 115 16 17 18 19 120 21 22 23 24 125 26 27 28 29 130 31 32 33 34 135

WM & EMMA KREAMER

LOUIS G. & LORENE POPP

SILVER CREEK TWP.
GRANT # 149
BRYON J. & ALICE R. REID

UNION TWP.
CLINTON VAN PELT
GRANT # 167

LOUIS G & LORENE POPP

GRANT # 149
BRYON J. & ALICE R REID

CLINTON VAN PELT
GRANT # 167

LINE "P"
N 0° 14' E

Structure No. 164A
Std. Inlet Type E-7
75' of 12" Class I Pipe Reqd
Hdw'l Req'd on outlet only
NOT INCLUDED IN THIS CONTRACT.

STRUCTURE No. 166
Std inlet Type E-7
80' of 12" Class I Pipe Reqd
Hdw'l Req'd on Inlet

STRUCTURE No. 164
Std. Inlet Type E-7
90' of 12" Class I Pipe Req'd.
Hdw'l Req'd on Outlet only

Structure No. 170
Std Inlet Type E-7
86' of 12" Class I pipe Reqd
20+% Hdw'l. Reqd
on outlet only

Structure No. 173
Std Inlet Type E-7
86' of 12" BCCMP &
2-22½° Bends Reqd
Hdw'l Reqd on outlet only

STRUCTURE NO 166
330' of 6" Sewer Pipe Reqd and
Connect to 4' FT. of 12" Dia
Remove 4' FT. in Place

STRUCTURE NO 165
212' of 18" BCCMP Req'd

STRUCTURE NO. 171
176' of 18" BCCMP Reqd.

STRUCTURE NO. 169
30' of 18" BCCMP Reqd.
Hdw'l Reqd on Inlet only

Structure No. 172
Std. Inlet Type E-7
86' of 12" BCCMP &
2-22½° Bends Reqd
Hdw'l Reqd on outlet only

All R/w on this sheet to be as shown
Limited access provisions to
apply where indicated

POT 137+01.1 (I.PL.)
POT 145+74.5 (I.PL.)
POT 148+41.9 (WH.F.)
POT 149+52.6 (I.P.B.)
POT 150+73.8 (I.P.B.)
POT 152+63.3 (I.P.B.)
POT 154+68.8 (I.R.) POT 157+51.4 (R.L.)
POT 159+29.6 (W.H.) (NOT REF.)
POT 161+07.8

BALANCE No. 20
Cut = 450 C.Y.
Fill + 20% = 36,702 C.Y.
Special Borrow = 36,252 C.Y.
Obtain Borrow from Balance No. 19
Note: Above Balance Includes
1326 C.Y. OF FILL within Slanted Limits

BALANCE No. 21
Cut = 1183 C.Y.
Fill 85% = 89,251 C.Y.
Borrow = 6,650 C.Y.
Special Borrow = 81,316 C.Y.
Above Borrow to be Obtained from
Baldnce No. 22

BALANCE No. 22
See Following Sheet

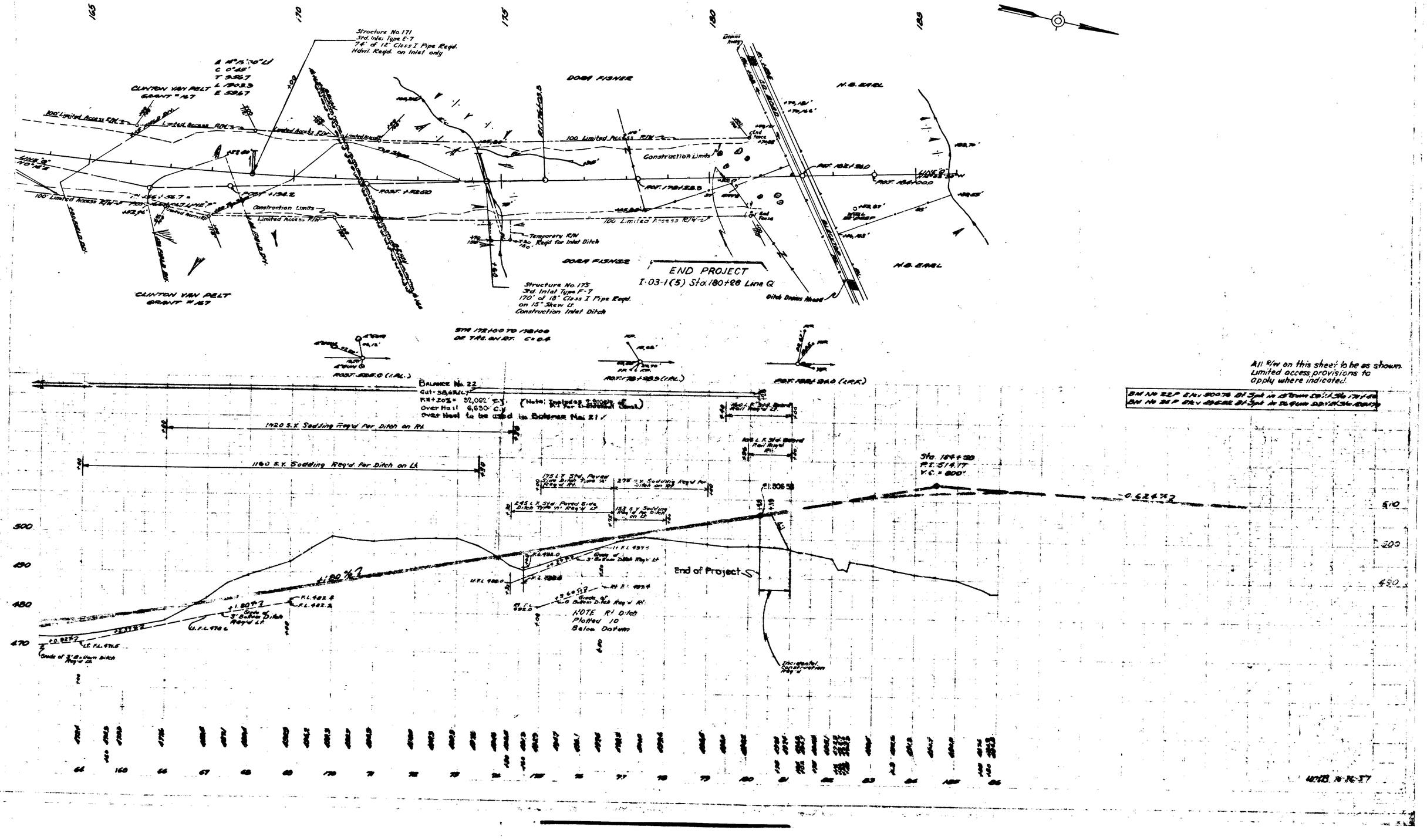
Structure Limits

1285 L.F. 54" Corr. Steel Pipe Reqd. Bl.

2280 L.F. 54" Corrugated Steel Pipe Reqd. Bl.

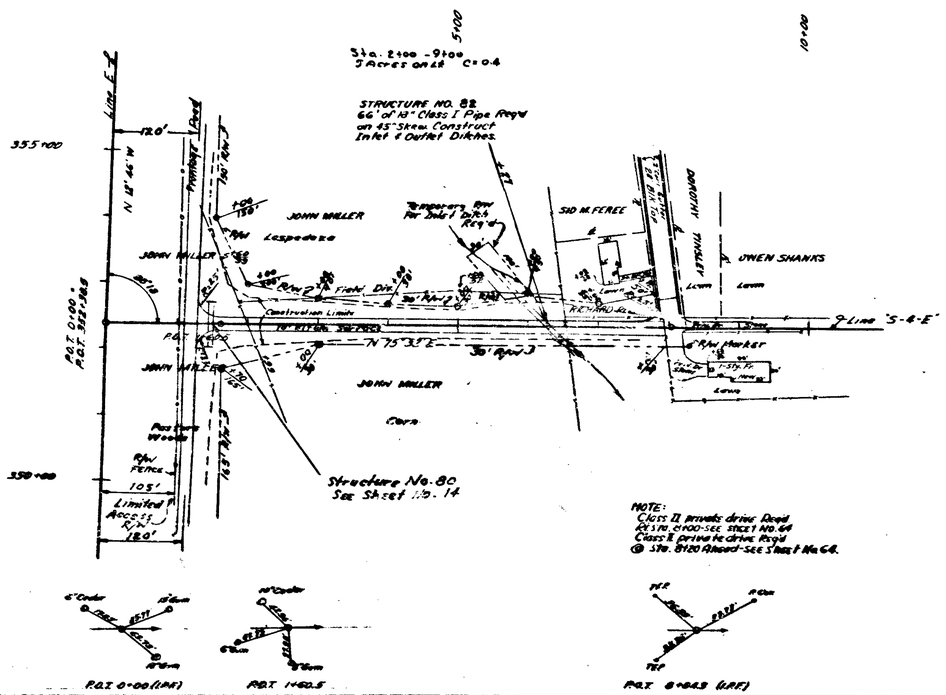
Grade of Bottom Ditch
Reqd at 4% Min. Grade

Grade of Bottom Ditch
Reqd at 4% Min. Grade


Structure No. 171
Std. Inlet Type E-7
74' of 12" Class I Pipe Reqd.
Hdwl. Reqd. on Inlet only
Δ 14°15'00" Lt
C 0°45'
T 335.7
L 670.3
E 5967
CLINTON VAN PELT GRANT "167
100' Limited Access R/W
Limited Access R/W
Limited Access R/W
Type Slope
Construction Limits
Limited Access R/W
Temporary R/W Reqd for Inlet Ditch
DORA FISHER
100 Limited Access R/W
Construction Limits
100 Limited Access R/W
Structure No. 175
3rd Inlet Type F-7
170' of 18" Class I Pipe Reqd.
on 15° Skew Lt.
Construction Inlet Ditch
END PROJECT
I-03-1(5) Sta 180+88 Line Q
Ditch Drains North
N.B. EARL
CLINTON VAN PELT GRANT "167
Sta 172+00 TO 178+00
DR. TAG ON RT. C=0.6
Balance No. 22
Cut= 38,695 C.Y.
Fill+20%= 32,000 C.Y.
Over Haul 6,650 C.Y.
over haul to be used in Balance No. 21
1920 S.Y. Sodding Reqd. For Ditch on RA
1160 S.Y. Sodding Reqd. For Ditch on LA
Sta. 184+20
P.I. 514.77
V.C. = 800'
-0.624%
+1.80%
+0.92%
End of Project
Incidental Construction 267 #
NOTE RI Ditch Plotted 10 Below Datum
All R/W on this sheet to be as shown. Limited access provisions to apply where indicated.

22

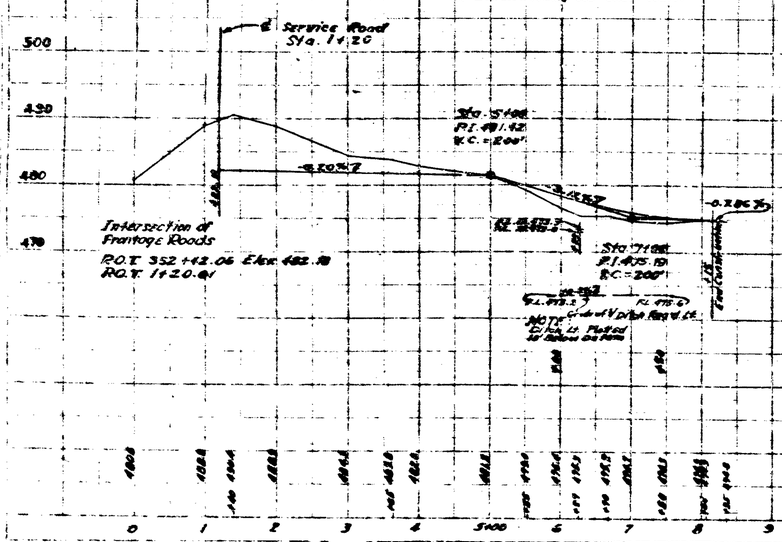
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-03-1(5)	1957	22	54 C



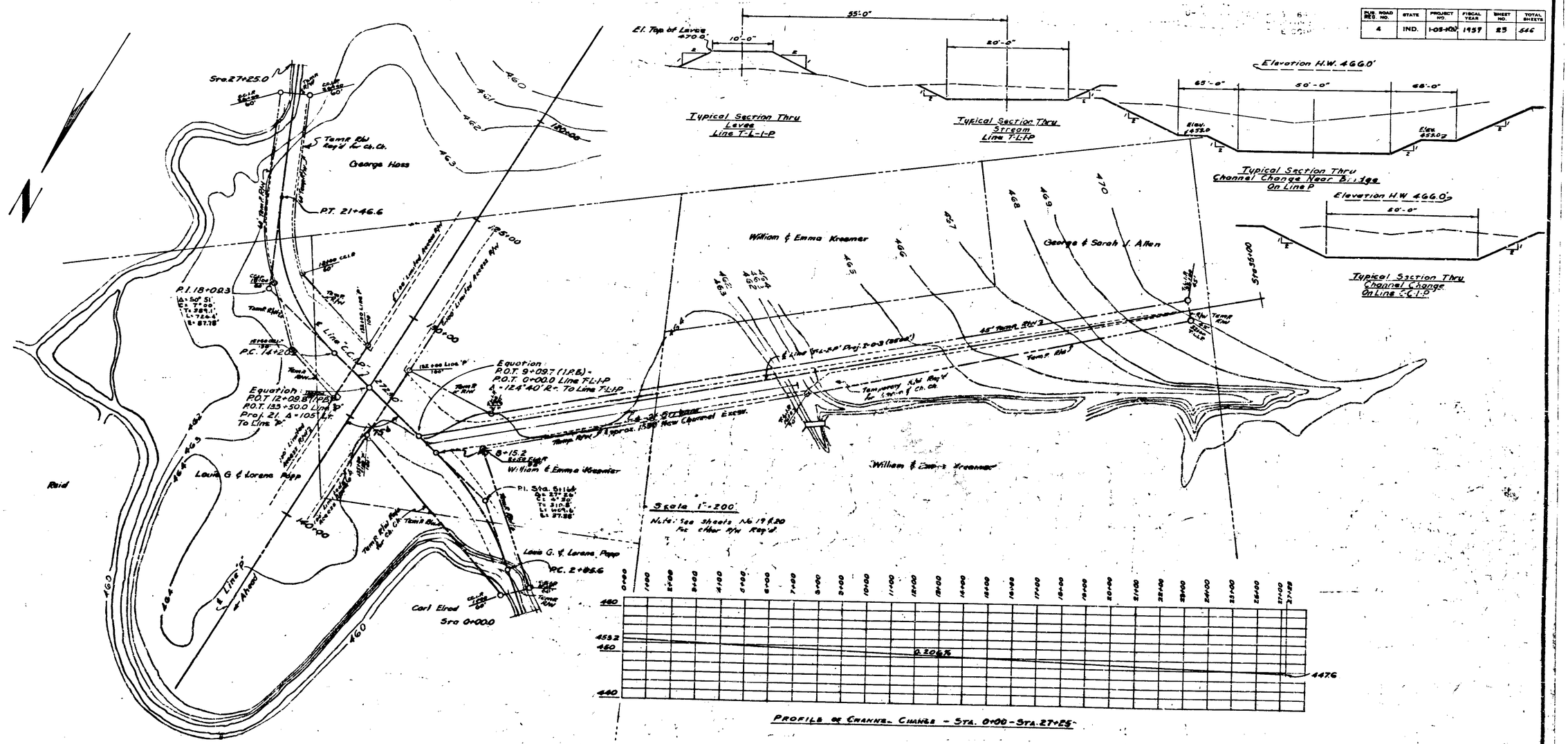
NOTE:
Class II private drive Reqd
Rt Sta. 6+00 - See Sheet No 66
Class II private drive Reqd
@ Sta. 8+20 Ahead - See Sheet No 66.

All R/w on this sheet to be as shown
Limited access provisions to
apply where indicated.

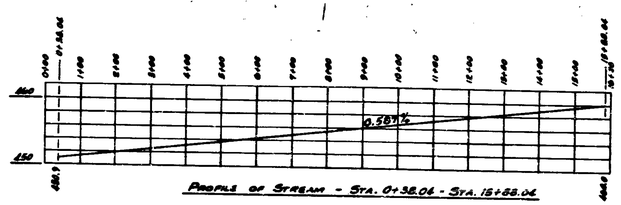
NOTE:
Cut & fill Quantities Included
in Balance No. 11, See sheet No. 14.



FED. ROAD REG. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-65-4(2)	1957	25	646



PROFILE OF CHANNEL CHANGE - STA. 0+00 - STA. 27+25.



PROFILE OF STREAM - STA. 0+38.06 - STA. 15+68.06

LAYOUT
CHANNEL CHANGE & LEVEE
MUDDY FORK CREEK
STATE HIGHWAY DEPARTMENT OF INDIANA

SCALE:- AS NOTED

JUNE 20, 1957

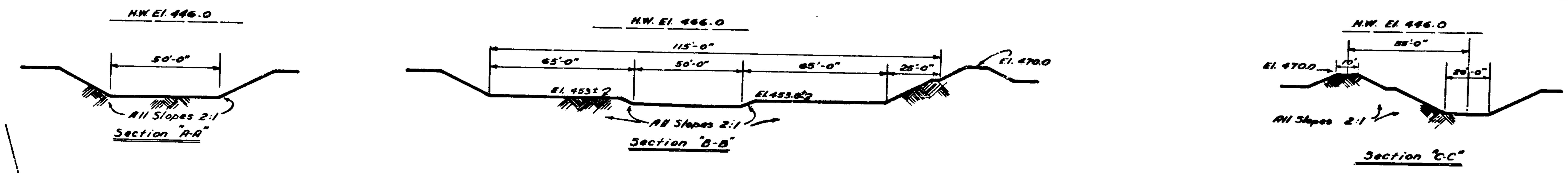
SUBMITTED FOR APPROVAL:-

STA. 133+50

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

MTH 11-21-57

PUB. ROAD DIV NO.	STATE	PROJECT NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND.	I-03-1(5)	1957	24	54C



NOTE:
All Channel Change Excavation and Levee Construction except as noted is part of Roadway Project I-03-1(5).

PLAN OF CHANNEL CHANGE AT BRIDGE

Scale 1" = 30'-0"

CHANNEL CHANGE AT
REINFORCED CONCRETE ARCH BRIDGE
3 CLEAR SPANS-60'-0" 60'-0" 60'-0" 15° RT SKEW
44'-0" ROADWAY
OVER MUDDY FORK ON STATE ROAD 31E

STATE HIGHWAY DEPARTMENT OF INDIANA

CLARK COUNTY

SCALE:- 1" = 30'-0"

JUNE 29 1957

SUBMITTED FOR APPROVAL:

STATION: 133+00

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

FEDERAL ROAD DIVISION NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND.	I-03-(5)	1957	25	546

LINE "E"

Sta. 274+00
Str. No. 42
Std. Inlet Type E-7
84' of 12" Class I pipe Req'd.
Hdw'l Req'd on outlet only

Sta. 277+70 Rt.
Str. No. 43
Std. Catch Basin Type B-5
94' of 12" Class I Pipe Req'd @ 45° Sk.
Connect to Str. No. 44
Hdw'l Req'd on outlet only

Sta. 280+00
Str. No 44
Std. Inlet Type E-7
78' of 12" Class I Pipe Req'd @ 20° Sk
Connect to Str. No. 43

Sta. 280+61 Lt.
Str. No 45
Std. Inlet Type D6
34' of 12" Class I Pipe Req'd @ 15° Sk.
Hdw'l Req'd. on outlet only

Sta. 283+50 Lt.
Str. No. 46
Std. Inlet Type D-6
118' of 12" Class I Pipe Req'd. @ 30° Sk.
Hdw'l Req'd. on outlet only

Sta. 288+30
Str. No 47
Std. Inlet Type E-7
30' of 12" BCCM Pipe on 45° Sk. Req'd.
Connect To Str. No. 48

Sta. 288+65
Str. No. 48
290' of 50"x31" BCCM Pipe Arch. 10 Ga. on 45° Sk. & one 50"x31"x12" Tee. & one 50"x31"x18" Tee Req'd.
Connect to Str. No. 47 & No. 49

Sta. 289+00
Str. No. 49
Std. Inlet type E-7
160' of 18" Class I Pipe on 45° Sk. Req'd.
Connect to Str. No. 48

Sta. 294+00
Str. No. 50
Std. Inlet type E-7
74' of 12" Class I Pipe Req'd.
Hdw'l Req'd. on outlet only

Sta. 300+00
Str. No. 51
92' of 12" Class I Pipe Req'd.
Hdw'l. Req'd. on outlet only

RAMP "B"

Sta. 6+35
Str. No 52
Std. Inlet type E-7
120' of 12" Class I pipe Req'd.

Sta. 7+00
Str. No 53
Std. Inlet type D-6
56' of BCCM Pipe & 2-22½° Bends Req'd.
Hdw'l Req'd on outlet only

Sta. 2+50
Str. No. 54
120' of 58"x36" BCCM Pipe Arch 10 Ga. Req'd

Sta. 2+30
Str. No. 55
Std. Inlet type D-6
70' of 13" BCCM Pipe two 22½° Bends Req'd.
Hdw'l. Req'd on outlet only

Sta. 1+53
Str. No. 56
Std. Inlet type A-3
76' of 12" BCCM Pipe & 2-22½° Bends Req'd Str. on 30° Sk.
Hdw'l. Req'd on outlet only

P R 60

Sta. 18+42
Str. No. 57
Std. Inlet type A-3
80' of 12 BCCM Pipe & 2-22½° Bends Req'd. Str. on 15° Sk.
Hdw'l Req'd. on outlet only
Connect to Str. No 58

Sta. 18+24
Str. No. 58
Std Inlet type A-3
52' of 12" Class I pipe on 45° Sk. Req'd.
Connect to Str. No. 56

RAMP "C"

Sta. 12+88
Str. No 59
Std. Inlet type A-3
58' of 12" BCCM Pipe & 2-22½° Bends Req'd. Str. on 15° Sk.
Hdw'l Req'd. on outlet only

Sta. 11+80
Str. No 60
Std Inlet type A-3
22' of 12" BCCM Pipe & 1-30° Bend Req'd. Connect to Str. No. 61

Sta. 11+70
Str. No. 61
104' of 18" BCCM Pipe & one 18"x12" Tee Req'd.
Connect to Str. No. 59

Sta. 15+70
Str. No 62
Std Inlet type A-3
48' of 12" BCCM Pipe two 22½° Bends Req'd.
Hdw'l Req'd on outlet only

P R 60

Sta. 15+60
Str. No. 63
Std. Inlet type D-6
52' of 12" BCCM Pipe & 2-22½° Bends. Req'd.
Hdw'l Req'd on outlet only

RAMP "A"

Sta. 14+32
Str. No. 64
Std. Inlet type A-3
120' of 12" BCCM Pipe & 2-22½° Bends Req'd.
Hdw'l Req'd. on outlet only

P.R. 60

Sta. 21+70
Str. No. 65
Std. Inlet type A-3
52' of 12" Class I pipe on 45° Sk. Req'd.
Connect to Str. No. 66

Sta. 21+55
Str. No. 66
Std. Inlet type A-3
68' of 12" BCCM Pipe & 2-22½° Bends Req'd.
Str. on 15° Sk.
Hdw'l. Req'd. on outlet only
Connect to Str. No. 65

RAMP "D"

Sta. 1+66
Str. No. 67
Std. Inlet type A-3
60' of 12" BCCM Pipe with 2-22½° Bends Req'd.
Str. on 15° Sk.
Hdw'l Req'd on outlet only

Sta. 6+84
Str. No. 68
120' of 36" Class I pipe on 45° Sk. Req'd.

P.R. 60

Sta. 14+00 Rt.
Str. No. 176
60' of 12" Class I pipe Req'd.

Sta. 29+60 Rt.
Str. No. 177
24' of 12" Class I Pipe Req'd.

Sta. 32+30 Rt.
Str. No 178
32' of 12" Class I pipe Req'd

Sta. 32+30 Lt.
Str. No. 179
32' of 15" Class I pipe Req'd

Sta. 34+00
Str. No 180
24' of 12" Class I pipe Req'd

Sta 34+20 Rt.
Str. No 181
24' of 12" Class I pipe Req'd.

RAMP B

Sta 6+00 Rt.
Str. No. 182
30' of 12" Class I pipe Req'd.

LINE "E"

Sta 274+70
Str. No. 183
24' of 12" Class I Pipe Req'd

LEGEND

- ●●● Steel Beam Guard Rail
- (16) Type "B" Curb
- (17) Integral Conc. Curb type B
- (18) Std. Lip Gutter
- (25) Std. Paved Side Ditch & Paved Gutter (See Sheet No 60 for Detail)
- (26) End Lip Gutter with Turnout (See Sheet No. 60 for Details)

Note:
See detail A-3 Inlet on Sheet No. 60
See Sheet No. 64 for Private Entrance Data.

PLAN OF S R 60 INTERCHANGE

Scale 1" = 100'

WRB 10-22-57

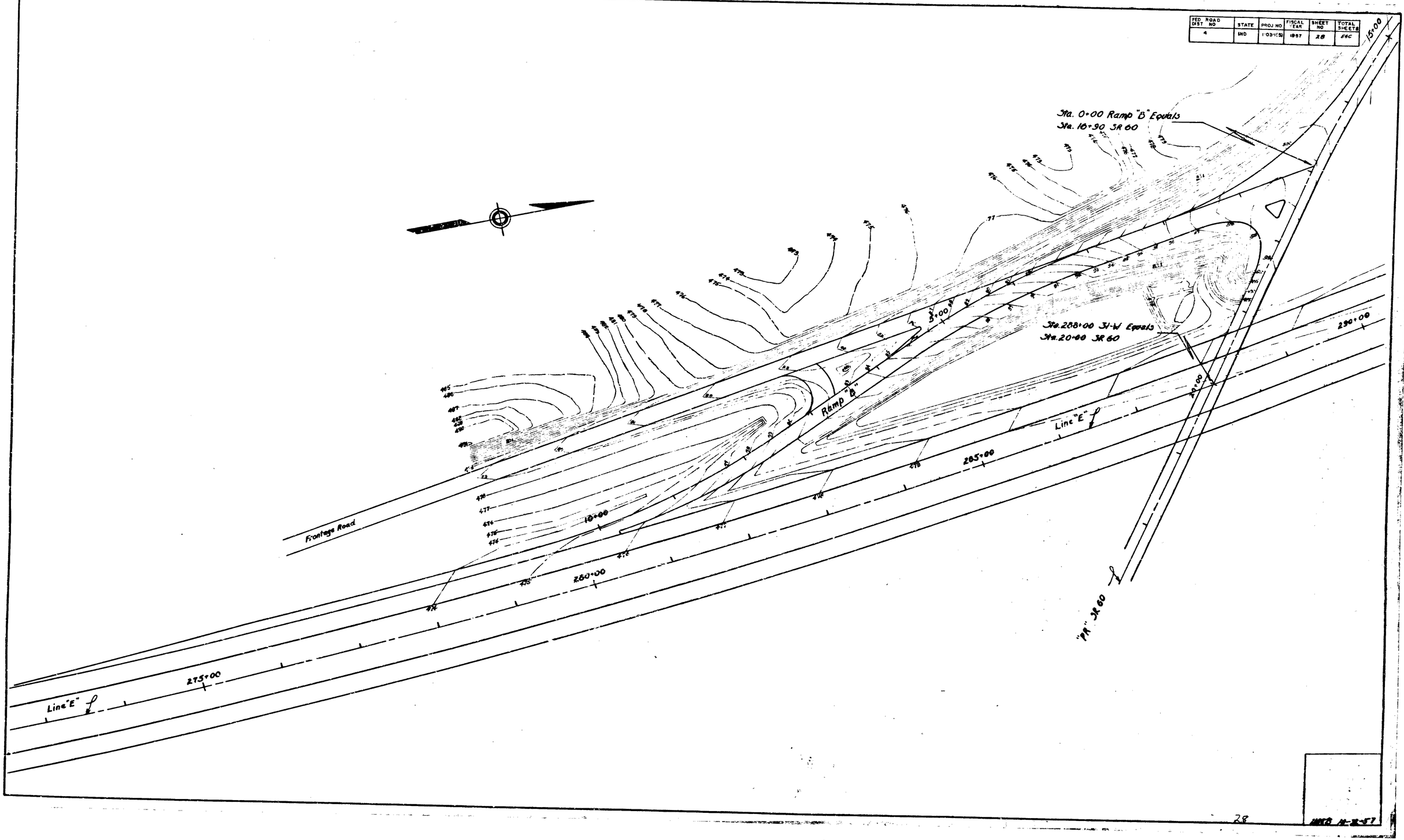
FEDERAL ROAD DIVISION NO.	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND.	I-05-1(8)	1957	26	66

LINE DATA FOR
S.R. 60 INTERCHANGE RAMPS
Scale 1" = 100'

DESIGN HOURLY VOLUME
ESTIMATED FOR 1975


FEDERAL ROAD DIVISION NO. 4
STATE IND.
PROJ NO I-03-1(5)
FISCAL YEAR 1957
SHEET NO 27
TOTAL SHEETS 546
OTTO F KOEHLER
JAMES HAVN
NORMAN BYERS
WILLIAM T. & MARGARET KOFFMAN
AMOS PIXLEY
Grant 87
Silver Creek Twp
Clark Co
Woods & Brush
Pasture
Corn
Garden
Chicken Pen
Yard
Limited Access R/W
Brush & Woods
Lespedeza
JOHN K. & MARY E. LONG
Ramp "B"
Ramp "C"
Ramp "D"
Ramp "A"
S.R. 60
275+00
280+00
285+00
290+00
295+00
300+00
See Sheet No 13
For Continuance of R/W
Soy Beans
weeds
yard
cist
well
woods
gum maple & oak Trees
Field Div.
JAMES H. & ALICE K. DETRICH
LEONARD & WILLA KEMFP
EDWARD
RALPH & MABLE L. RAPHEAL
Bird Dog Pen
VINCENT
SCOTT
EWELL
Grant Line
INSERT
PLAN OF RIGHT-OF-WAY
FOR S.R. 60 INTERCHANGE
Scale 1"=100'

FED ROAD DIST NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND	I-03-1(5)	1957	28	54C



HRD IV-R-57

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-69-1(15)	1957	29	54

Sta. 288+00 I-69-1(15)E
Sta. 20+00 R.R. 60

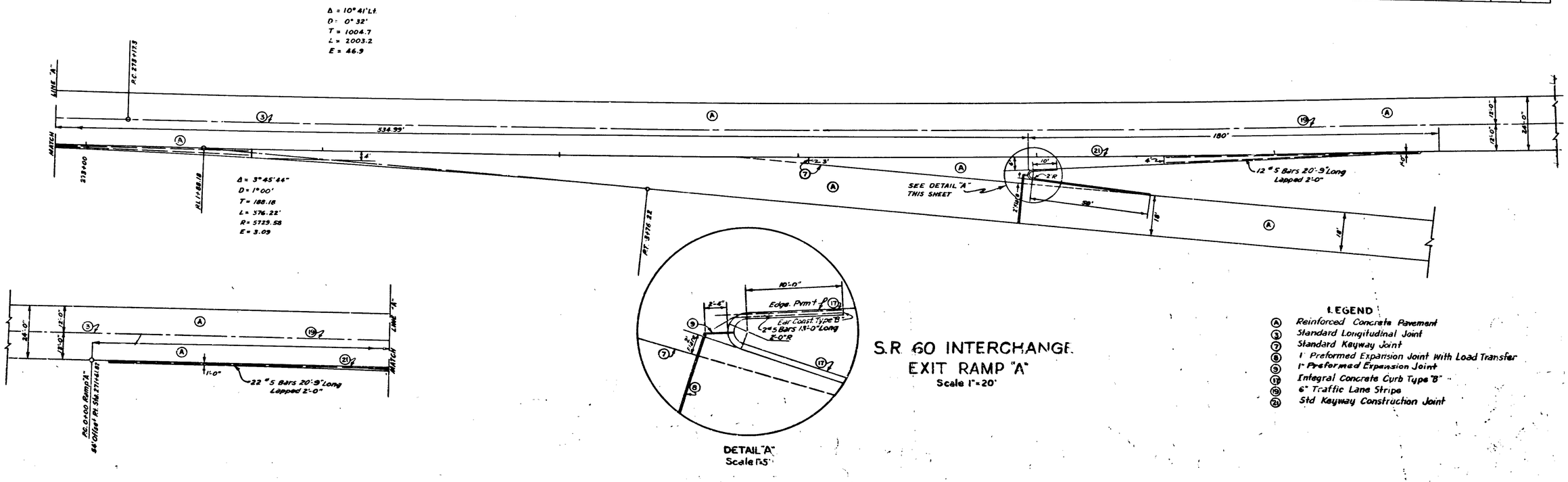
GRADING PLAN
SOUTHEAST QUADRANT
S. R. 60 INTERCHANGE

Scale: 1"-50'

GRHS 10-16-57

FED. ROAD DIST NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND	I-03 1(5)	1957	30	54C

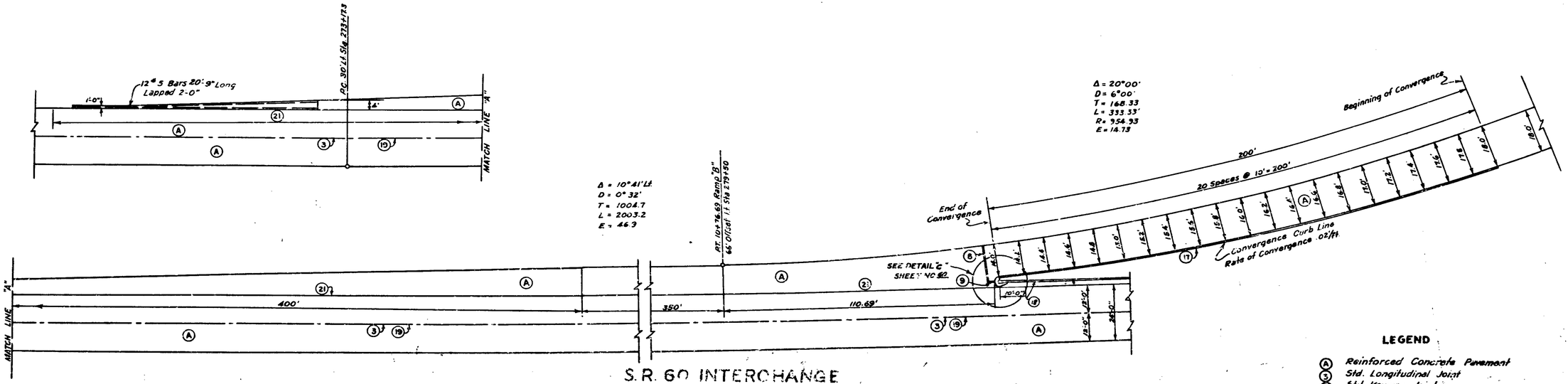
FEDERAL ROAD DIVISION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-03-K(8)	1957	81	946



DETAILS

DWG 10-26-57

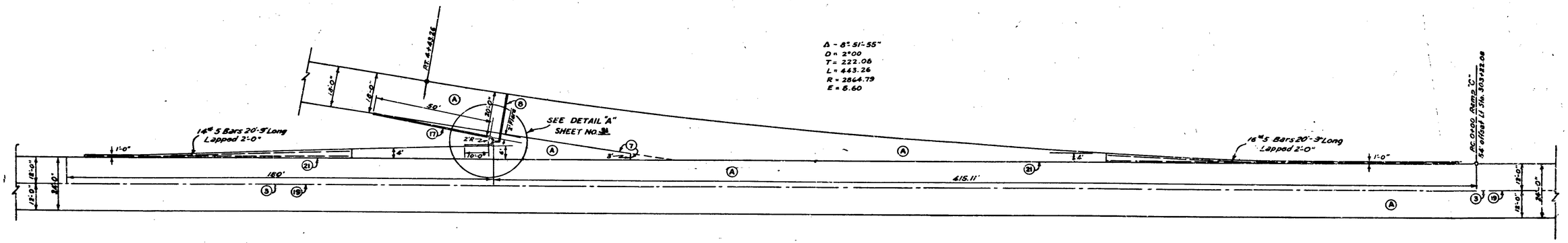
FEDERAL ROAD DIVISION NO.	STATE	PROJ. NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND.	I-03-1(5)	1957	[illegible]	[illegible]



S.R. 60 INTERCHANGE
ENTRANCE RAMP "B"
Scale 1"=20'

LEGEND

- (A) Reinforced Concrete Pavement
- (3) Std. Longitudinal Joint
- (5) Std. Keyway Joint
- (6) 1" Preformed Expansion Joint with load Transfer
- (7) 1" Preformed Expansion Joint
- (9) Integral Concrete Curb Type "B"
- (19) 6" Traffic Lane Stripe
- (21) Std. Keyway Construction Joint
- (18) Std. Lip Gutter

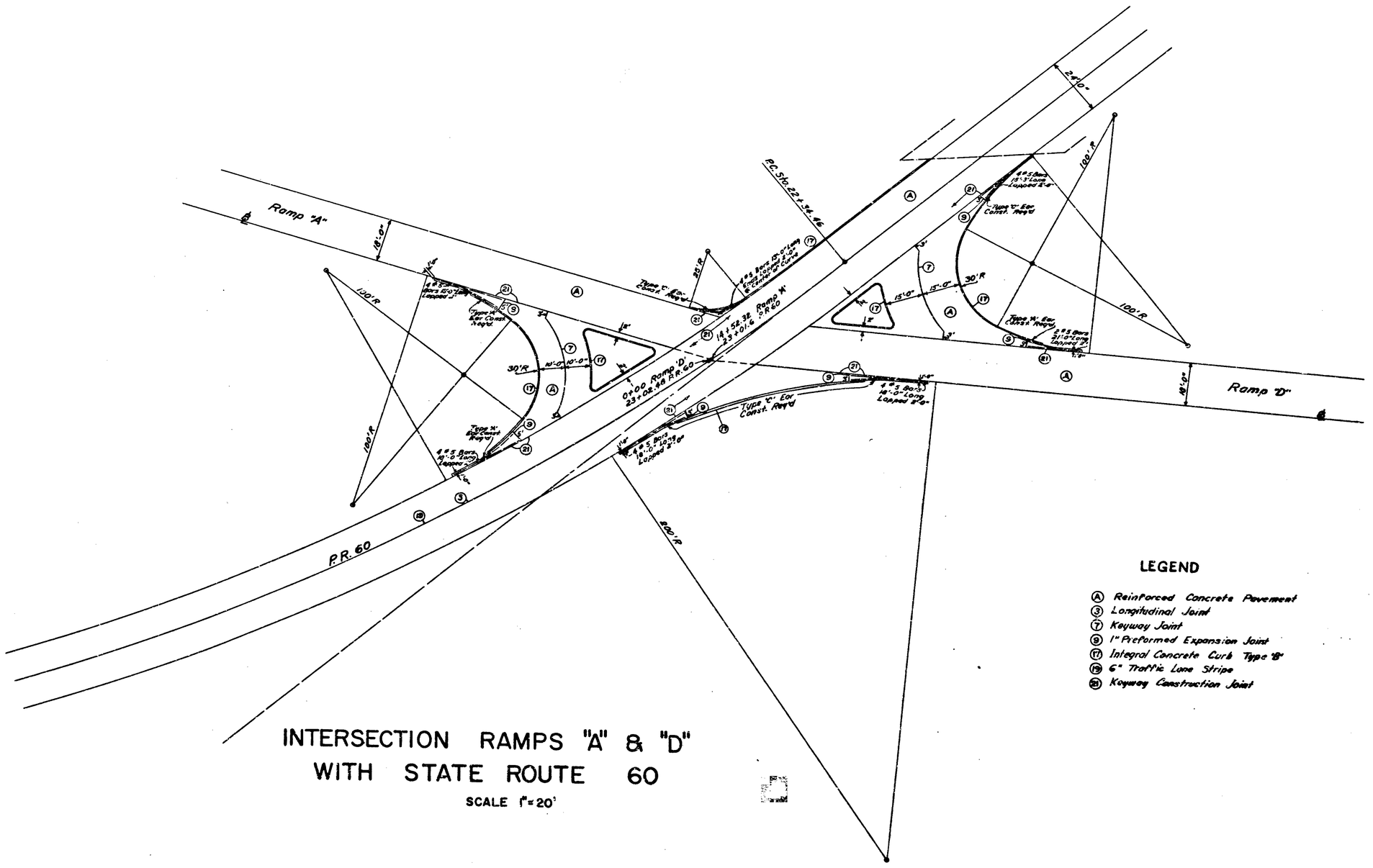


S.R. 60 INTERCHANGE
EXIT RAMP "C"
Scale 1"=20'

DETAILS

Work 11-22-57

FEDERAL DIVISION	ROAD NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4		IND.	I-03-1(5)	1957	38	546



INTERSECTION RAMPS "A" & "D" WITH STATE ROUTE 60

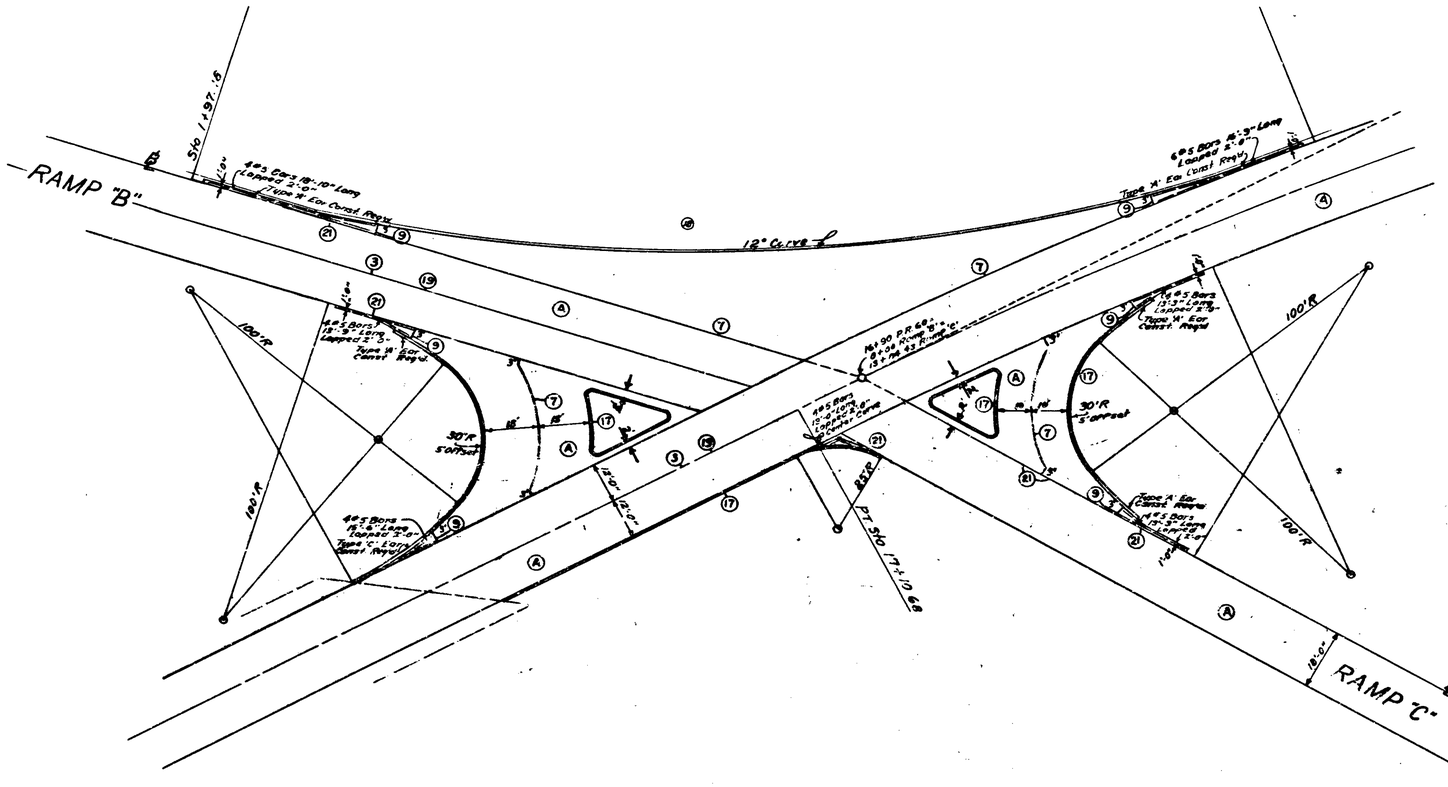
SCALE 1"=20'

LEGEND

- (A) Reinforced Concrete Pavement
- (3) Longitudinal Joint
- (7) Keyway Joint
- (9) 1" Preformed Expansion Joint
- (17) Integral Concrete Curb Type 'B'
- (19) 6" Traffic Lane Stripe
- (21) Keyway Construction Joint

WRB 10-28-57

FEDERAL ROAD DIVISION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	03-K(5)	1957	34	386



INTERSECTION RAMPS "B" & "C"
WITH STATE ROUTE 60

SCALE 1"=20'

LEGEND

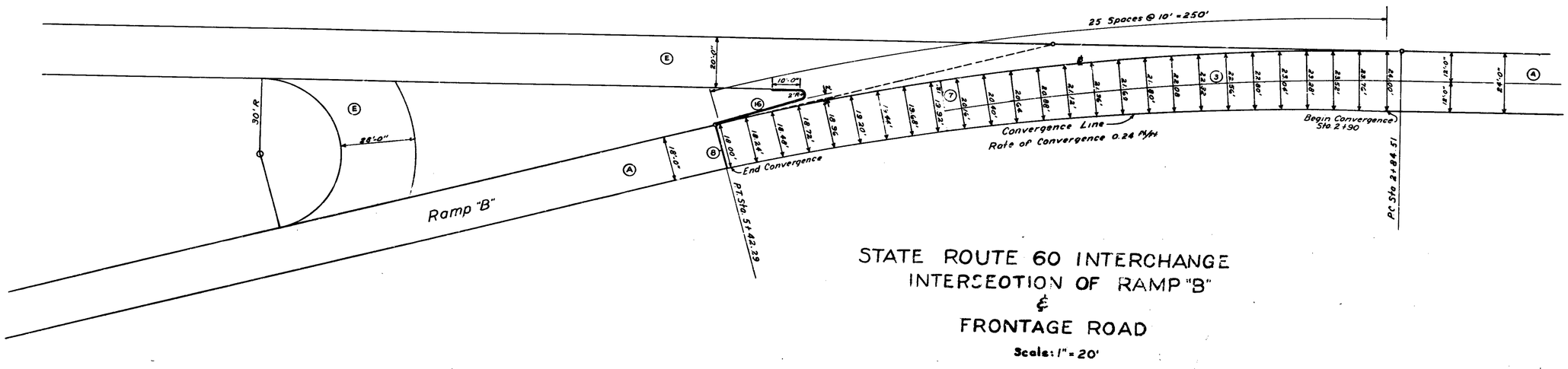
- (A) Reinforced Concrete Pavement
- (3) Longitudinal Joint
- (7) Keyway Joint
- (9) 1" Preformed Expansion Joint
- (17) Integral Concrete Curb Type 'B'
- (20) 6" Traffic Lane Stripe
- (21) Keyway Construction Joint
- (46) Std. Lip Gutter

DETAILS

WHB 10-21-57

FEDERAL ROAD DIVISION NO.	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND.	I-03-1(59)	1957	35	546

℄ CURVE
Δ= 13°28'
D= 6°00'
T= 129.68'
L= 257.78'
R= 954.95'
E= 8.76'



STATE ROUTE 60 INTERCHANGE
INTERSECTION OF RAMP "B"
℄
FRONTAGE ROAD

Scale: 1" = 20'

LEGEND

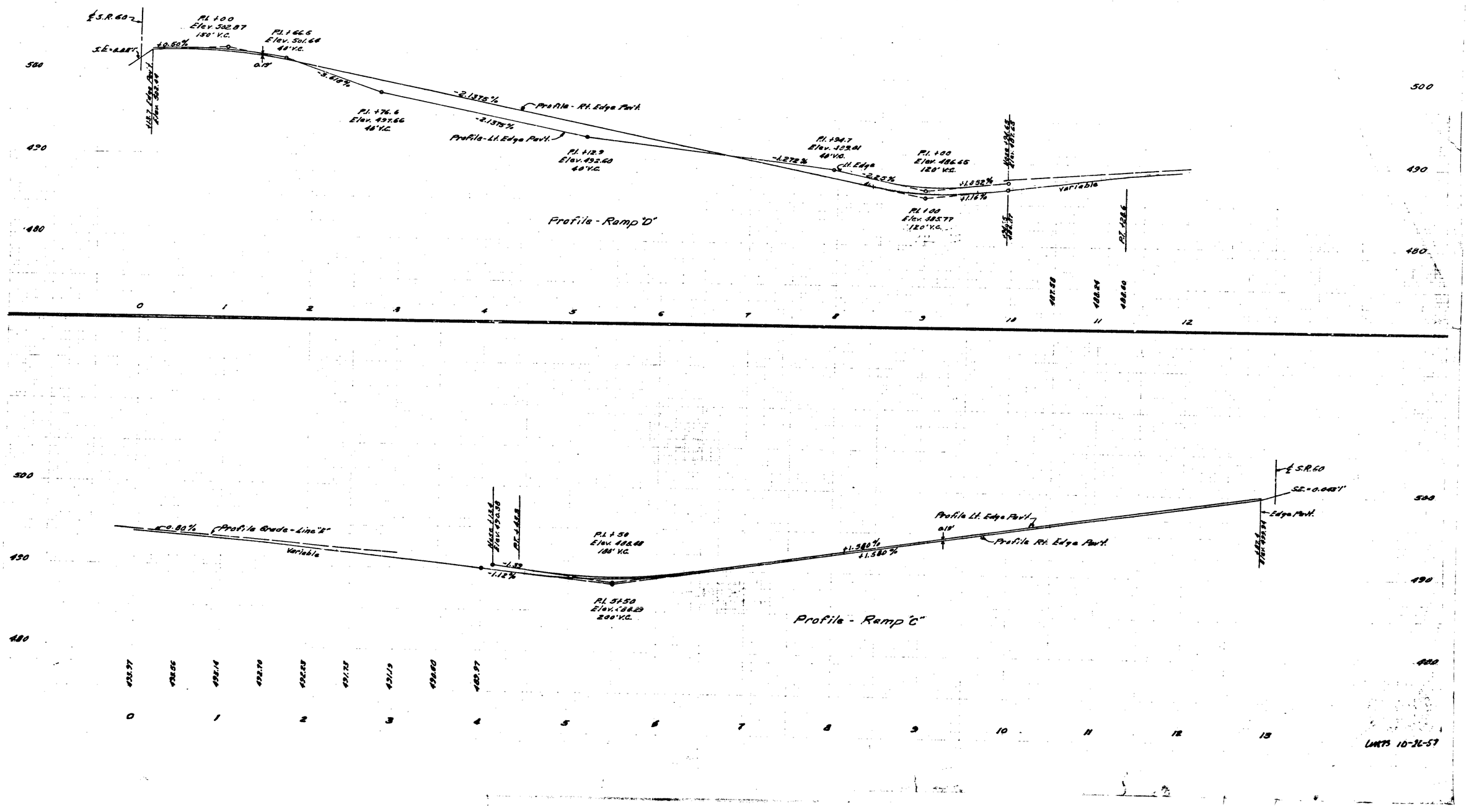
- (A) Reinforced Concrete Pavement
- (E) 2" Bituminous Shoulder Mix on 6" Compacted Aggregate
- (3) Std. Longitudinal Joint
- (7) Std. Keyway Joint
- (8) 1" Preformed Expansion Joint with load Transfer
- (16) Type 'B' Curb

DETAILS

WITH 10-26-57

I-031(2) 1957 38 54C

S.R. 60 Interchange



UNITS 10-26-57

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-65-6(8)	1957	39	54C

PLANTING

PLAN OF U.S. 31-W INTERCHANGE

Scale: 1"=100'

11-26-57

SHT.	ROAD NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
	4	IND	I-03-E5	1957	59 A	64C

LINE "E"

Str. No. 87
Sta. 367+80 Lt.
Std. Inlet Type D-6
56'-12" Class I pipe Reqd.
Connect to Str. No. 88

Str. No. 88 989
Sta. 368+00
Std. Inlet Type E-7
182'-12" Class I pipe Reqd.
Hdw'l Req'd. an outlet only

LINE "F"

Str. No. 90
Sta. 2+80
Std. Inlet Type E-7
128'-12" Class I pipe Reqd.
Hdw'l Reqd. an outlet only

Str. No. 91
Sta. 10+25
2"W"-137'x87"
Bitum. Coated Structural
Plate Pipe Arch Reqd.
Spans, Section
Modulus 0.153 in.³
Two Std. Pipe Anchors Reqd.
See detail on Sheet No. 61

LINE P.R. 31 W

Str. No. 111
Sta. 380+98
3@6'-137"x87"
Bitum. Coated Structural
Plate pipe Reqd.
6 spans, Section
Modulus 0.0882 in.³
2-137"x12" Tees
Two Std. pipe anchors Reqd.
Connect to Str. No. 116 & 117

Str. No. 112
Sta. 384+00
Std. Inlet Type E-7
64' of 12" Class I pipe Reqd.
Hdw'l Req'd an outlet

Str. No. 113
Sta. 384+28
Std. Inlet Type E-7
192'-12" Class I pipe Reqd.
Hdw'l Req'd an outlet only

Str. No. 114
Sta. 384+29
48' of 18" Class I pipe Reqd.

RAMP "A"

Str. No. 115
Sta. 384+52
82' of 18" Class I pipe Reqd.
30° Sk.

LINE P.R. 31 W

Str. No. 116
Sta. 382+85 Rt.
Std. Inlet Type E-7
164'-12" BCCM Pipe Reqd.
Connect to Str. No. 111

LINE "P"

Str. No. 92
Sta. 11+00 Rt.
Std. Inlet Type D-6
66'-12" Class I Pipe Reqd.
Hdw'l Reqd. an outlet only

Str. No. 93
Sta. 13+00 Rt.
Std. Inlet Type D-6
64'-12" Class I pipe Reqd.
Hdw'l Reqd an outlet only

Str. No. 94
Sta. 16+00
Std. Inlet Type E-7
160'-12" Class I pipe Reqd.
Hdw'l Reqd. an outlet only

Str. No. 95
Sta. 15+00 Rt.
Std. Inlet Type D-6
40'-12" Class I pipe Reqd.
Hdw'l Reqd. an outlet only

Str. No. 96
Sta. 16+00
Std. Inlet Type E-7
76'-12" Class I pipe Reqd.
Hdw'l Reqd. an outlet only

Str. No. 117
Sta. 390+45 Rt.
Std. Inlet Type E-7
14' of 12 BCCM Pipe Reqd.
Connect to Str. No. 111

Str. No. 118
Sta. 6+68
88' of 18" Class I pipe Reqd.

Str. No. 119
Sta. 10+28
Std. Inlet Type A-3
68' of 12" BCCM Pipe &
2-22½° Bends Reqd.
Hdw'l Reqd. an outlet only

RAMP "D"

Str. No. 120
Sta. 9+65
68' of 18" Class I pipe Reqd.

LINE "P"

Str. No. 97
Sta. 18+00
Std. Inlet Type E-7
98' of 12" Class I pipe Reqd.
Hdw'l Reqd. an outlet only

LINE P.R. 31 N

Str. No. 98
Sta. 14+65 Rt.
24' of 12" Class I pipe Reqd.

Str. No. 99
Sta. 18+78 Lt.
24' of 12" Class I pipe Reqd.

Str. No. 100
Sta. 11+00 Lt.
24' of 18" Class I pipe Reqd.

Str. No. 101
Sta. 13+75 Lt.
24' of 18" Class I pipe Reqd.

Str. No. 102
Sta. 15+00
Std. Inlet Type E-7
53'-12" Class I pipe Reqd.
Hdw'l Reqd. an outlet only

LINE P.R. 31 N

Str. No. 103
Sta. 23+00
Std. Inlet Type E-7
58' of 12" Class I pipe Reqd.
Hdw'l Reqd. an outlet only

Str. No. 106
Sta. 20+00
24' of 12" Class I pipe Reqd.

Str. No. 105
Sta. 24+00
Std. Inlet Type E-7
74' of 12" Class I pipe Reqd.

LINE "P"

Str. No. 106
Sta. 7+40
240' of 18" Class I pipe Reqd.
1-18"x12" Tee Reqd.
2 1/2" Insert Reqd.
Connect to Str. No. 107 & 108
Not Included in Road Contract

LINE P.R. 31 W

Str. No. 107
Sta. 27+55
Std. Inlet Type E-7
58' of 12" Class I pipe Reqd.
@ 18" Sk. Connect to Str. No. 106

Str. No. 108
Sta. 29+50
Std. Inlet Type D-6
14' of 12" Class I pipe Reqd.
@ 25% Connect to Str. No. 109

Str. No. 109
Sta. 23+68
Std. Inlet Type E-7
58' of 12" Class I pipe Reqd.
Hdw'l Reqd. an outlet only
1-12"x12" Tee Reqd.
Connect to Str. No. 108

Str. No. 110
Sta. 31+00
106' of 24" Class I
Pipe Reqd.

Str. No. 121
Sta. 10+00 Rt.
Std. Inlet Type E-7
38' of 18" Class I pipe Reqd.
Hdw'l Reqd. an outlet only

Str. No. 122
Sta. 11+85
220'-137"x 87"
Bitum. Coated Structural
Plate Pipe Arch Reqd.
6 spans, Section
Modulus 0.1882 in.³
are 137"x 87"x 12" Tee Reqd.
two Std. Pipe Anchors Reqd.
See detail on Sheet No. 61
Connect to Str. No. 124

RAMP "E" Lt. Leg

Str. No. 123
Sta. 16+26
128' of 18" Class I pipe Reqd.
83° Sk.
Hdw'l Reqd. an inlet only
Connect to Str. No. 124

RAMP "D"

Str. No. 124
Sta. 39+85 Lt.
Std. Inlet Type D-6
188' of 18" Class I pipe Reqd.
Hdw'l Reqd. an outlet only
Connect to Str. No. 123

Str. No. 125
Sta. 6+69
Std. Inlet Type A-3
18' of 12" BCCM Pipe &
2-22½° Bends Reqd.
Connect to Str. No. 122

RAMP "E"

Str. No. 126
Sta. 8+30
Std. Inlet Type A-3
14' of 12" Class I pipe Reqd.
Connect to Str. No. 127

Str. No. 127
Sta. 8+60
128' of 18" Class I Pipe &
one 12"x12" Tee Reqd.
Connect to Str. No. 128

Str. No. 128
Sta. 19+40
Std. Inlet Type A-3
57' of 12" BCCM Pipe &
two 22½° Bends Reqd.
Hdw'l Reqd. an outlet only

Str. No. 129
Sta. 12+50
Std. Inlet Type A-3
68' of 12 BCCM Pipe &
two 22½° Bends Reqd.
Hdw'l Reqd. an outlet only

RAMP "F"

Str. No. 130
Sta. 9+65 Lt.
Std. Inlet Type D-6
188' of 18" Class I pipe Reqd.
Hdw'l Reqd. an outlet only
Connect to Str. No. 129

Str. No. 131
Sta. 12+25
Std. Inlet Type A-3
14' of 12" Class I pipe Reqd.
Connect to Str. No. 132

Str. No. 132
Sta. 11+00
128' of 18" Class I Pipe &
one 12"x12" Tee Reqd.
Connect to Str. No. 133

Str. No. 133
Sta. 11+40
Std. Inlet Type A-3
57' of 12" BCCM Pipe &
two 22½° Bends Reqd.
Hdw'l Reqd. an outlet only

Str. No. 134
Sta. 13+50
Std. Inlet Type A-3
68' of 12" BCCM Pipe &
2-22½° Bends Reqd.
Connect to Str. No. 135

FOR DETAIL OF CURB & GUARD RAIL AT BRIDGE PIERS SEE SHEET NO. 64

Sta. 29+55.41 P.R. 31 W
Sta. 8+09.30 Line "P"

Sta. 312+29.1 Line "E"
1°00 Line "P"

Note:
See detail A-3 Inlet on Sheet No. 60
See Sheet No. 64 for Private Entrance Data.
See Detail - Sheet No. 64 for Grade Separation Structure

LEGEND

- Steel Beam Guard Rail
- Integral Conc. Curb Type "B"
- Std. Lip Gutter
- Std. Paved Side Ditch & Paved Gutter (See Sheet No. 60 for detail)
- End Lip Gutter With Turnout (See Sheet No. 60 for detail)
- Special 9" Integral Conc. Curb

PLAN OF U.S. 31-W INTERCHANGE

Scale: 1" = 100'

Revised 9-26-68
CURVE DATA.

FED ROAD DIST NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEET
4	IND	F-03-(13)	1957	40	44C

LINE DATA FOR U.S. 31-W INTERCHANGE RAMPS

Scale : 1"=100'

JUNCTION U.S. 31 & 31-W

DESIGN HOURLY VOLUME
ESTIMATED FOR 1975

FED ROAD DIST NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND	1-03-1(31)	1957	41	56

REVISED 9-10-57

March 31, 1957
R/W Revised
Sta. 43+00 to 45+00
PR 31 W to Avoid Cemetery

Rev. 5-20-58
Frontage Road &
R/W Ramp "E"

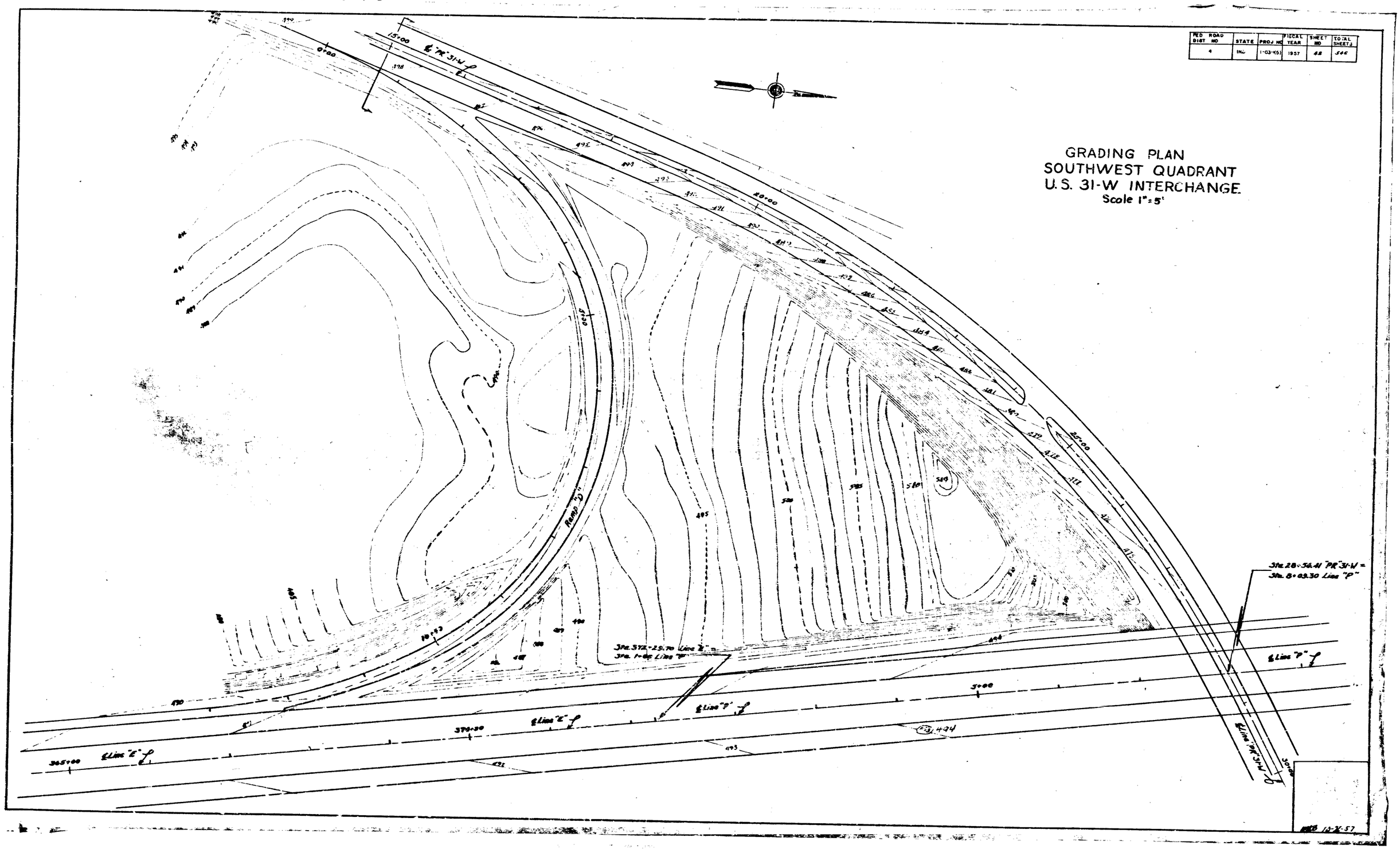
Topography Revised 9-10-57

PLAN OF RIGHT-OF-WAY FOR U.S. 31 W INTERCHANGE

SCALE 1"=100'

FED ROAD DIST NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND	I-03-K(5)	1957	48	54C

GRADING PLAN
SOUTHWEST QUADRANT
U.S. 31-W INTERCHANGE
Scale 1" = 5'



FED ROAD DIST NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND	I-03-1(5)	1957	45	54C

Sta. 28+36.41 "PR" 31-W =
Sta. 8+09.30 Line "P"

Sta. 372+29.70 Line "E" =
Sta. 1+00 Line "P"

℄ Line "P"

℄ Line "E"

℄ "PR" 31-W

Ramp "C"

Ramp "B"

0+00 5+00 10+00 15+00 20+00 25+00 30+00 35+00

370+00 375+00

485 490 495 480 475 470 465 460 455 450

GRADING PLAN
SOUTHEAST QUADRANT
U.S. 31-W INTERCHANGE
Scale : 1" = 50'

LAST 10-22-57

FED ROAD DIST NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND	I-03-1(10)	1957	44	546

20+00

20+00

℄ "PR" 31-W

℄

495

490

500

505

496

497

498

499

505

500

495

490

15+00

485

15+00

485

Ramp "E"

485

480

Ramp "F"

5+00

480

485

475

10+00

490

495

25+00

℄ N-15-W

50+05

℄ Line "P"

0+90

10+00

5+00

10+00

15+00

℄ Line "P"

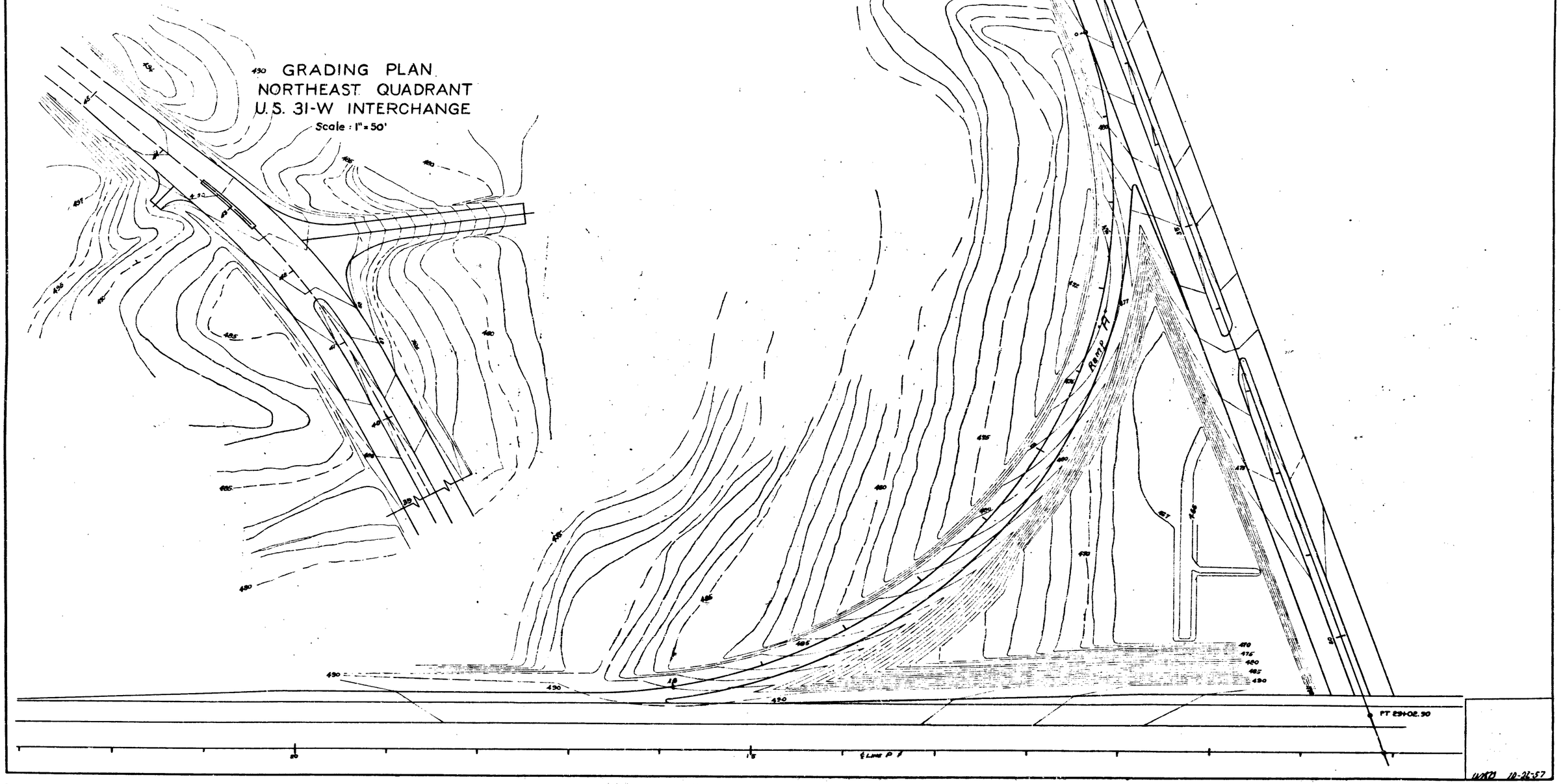
Sta. 6+09.30 Line "P" Equals
Sta. 28+56.41 "PR" 31-W

GRADING PLAN
NORTHWEST QUADRANT
U.S. 31-W INTERCHANGE
Scale 1"=5'

FED. ROAD DIST NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND	I-03-1(53)	1957	65	545

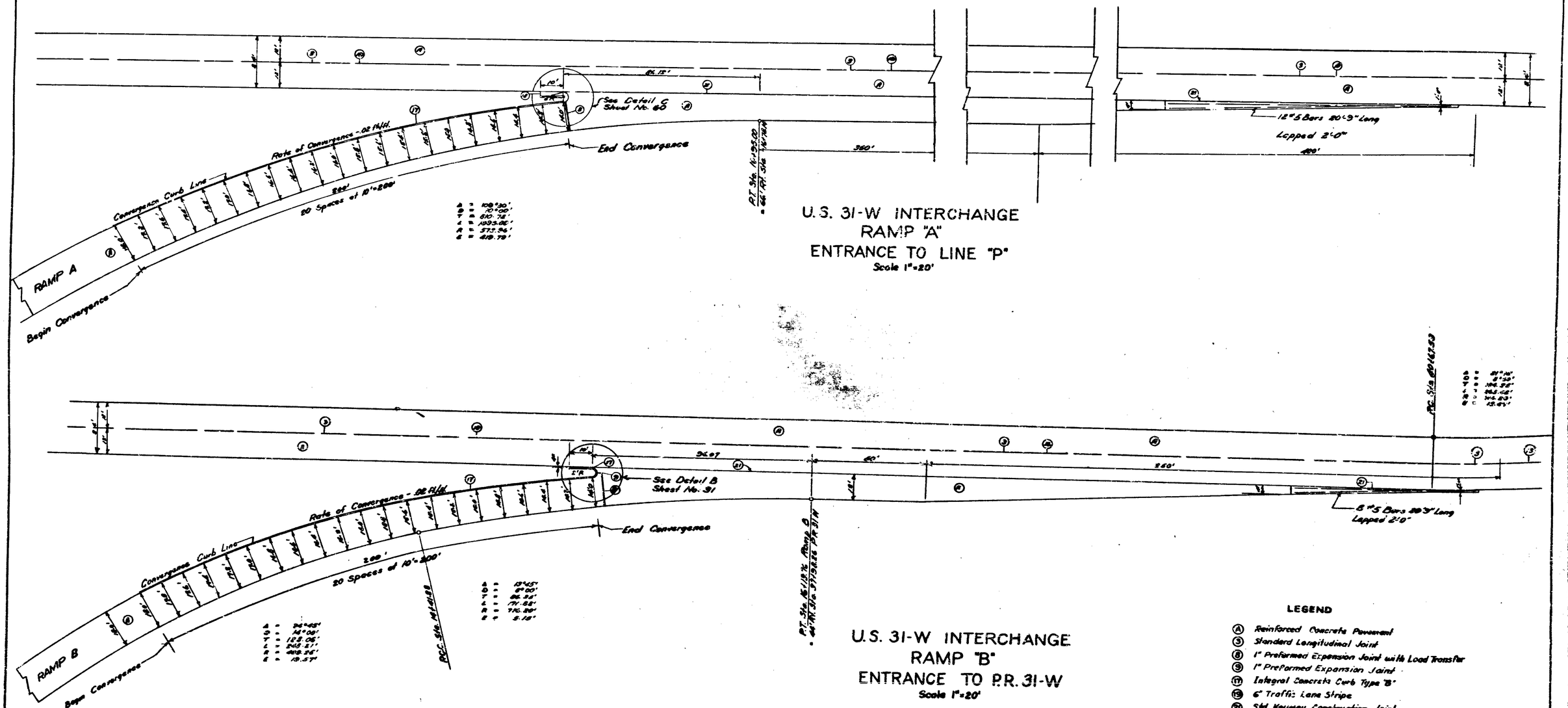
GRADING PLAN
NORTHEAST QUADRANT
U.S. 31-W INTERCHANGE

Scale : 1" = 50'



WRB 10-22-57

FEDERAL ROAD DISTRICT NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-03-1(42)	1987	46	446



U.S. 31-W INTERCHANGE
RAMP "A"
ENTRANCE TO LINE "P"
Scale 1"=20'

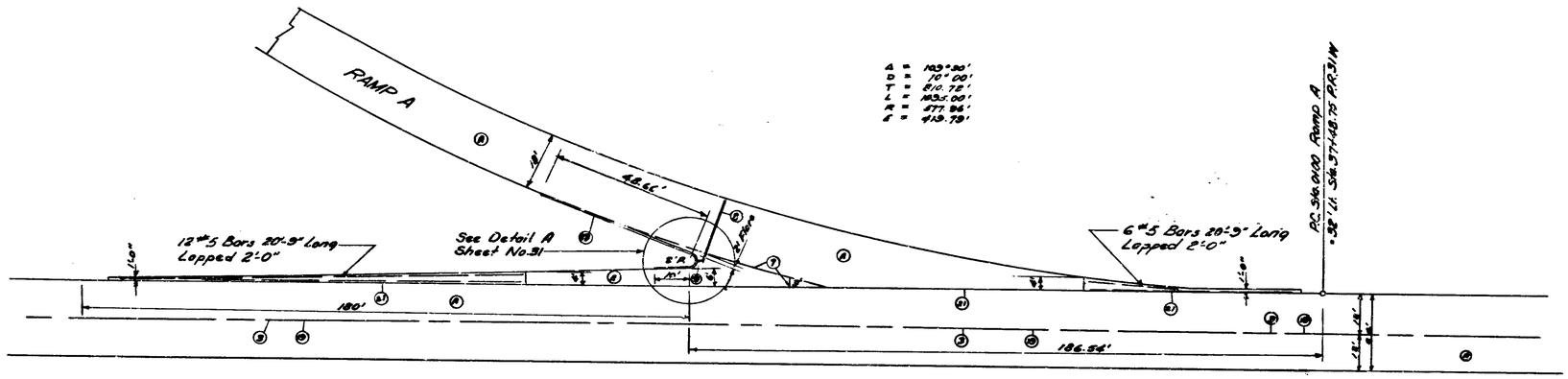
U.S. 31-W INTERCHANGE
RAMP "B"
ENTRANCE TO P.R. 31-W
Scale 1"=20'

LEGEND

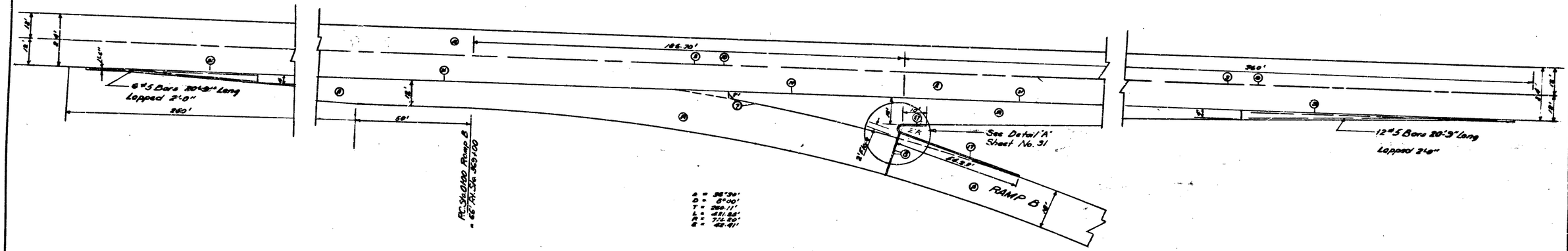
- (A) Reinforced Concrete Pavement
- (3) Standard Longitudinal Joint
- (8) 1" Preformed Expansion Joint with Load Transfer
- (9) 1" Preformed Expansion Joint
- (11) Integral Concrete Curb Type "B"
- (15) 6" Traffic Lane Stripe
- (21) Std. Keyway Construction Joint
- (27) Std. Lip Gutter

Index 16-7457

FEDERAL ROAD DIVISION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-03-1(5)	1957	47	54C



31-W INTERCHANGE
RAMP A EXIT FROM P.R.31W
Scale - 1"=20'

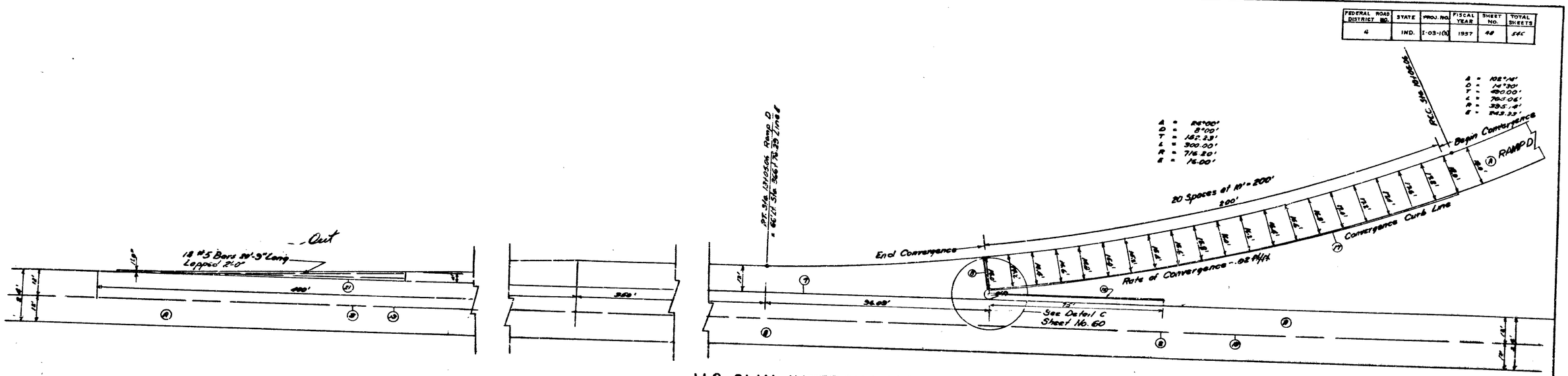


31-W INTERCHANGE
RAMP B EXIT FROM LINE E
Scale 1"=20'

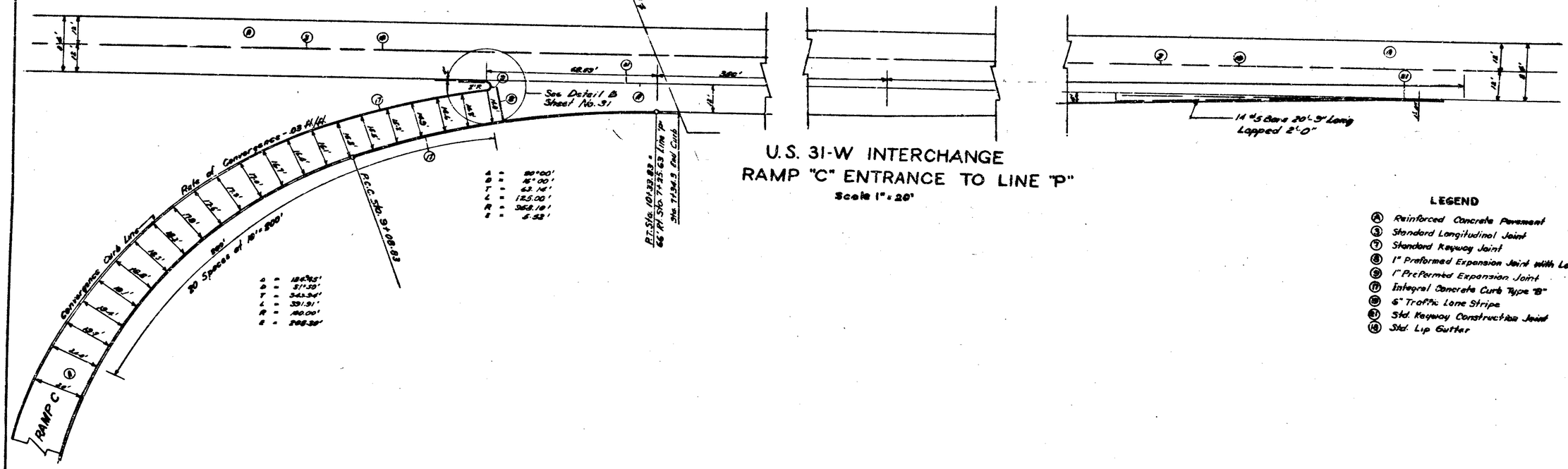
~LEGEND~

- (3) LONGITUDINAL JOINT
- (2) KEYWAY JOINT
- (1) 1" PREFORMED EXPANSION JOINT WITH LOAD TRANSFER
- (1) 1" PREFORMED EXPANSION JOINT
- (6) 6" TRAFFIC LANE STRIPE
- (24) KEYWAY CONSTRUCTION JOINT
- (A) REINFORCED CONCRETE PAVEMENT
- (T) INTEGRAL CONCRETE CURB TYPE B
- (18) STD. LIP GUTTER

FEDERAL ROAD DISTRICT NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-03-1(5)	1957	48	54C



U.S. 31-W INTERCHANGE
RAMP "D" ENTRANCE TO LINE "E"
Scale 1" = 20'



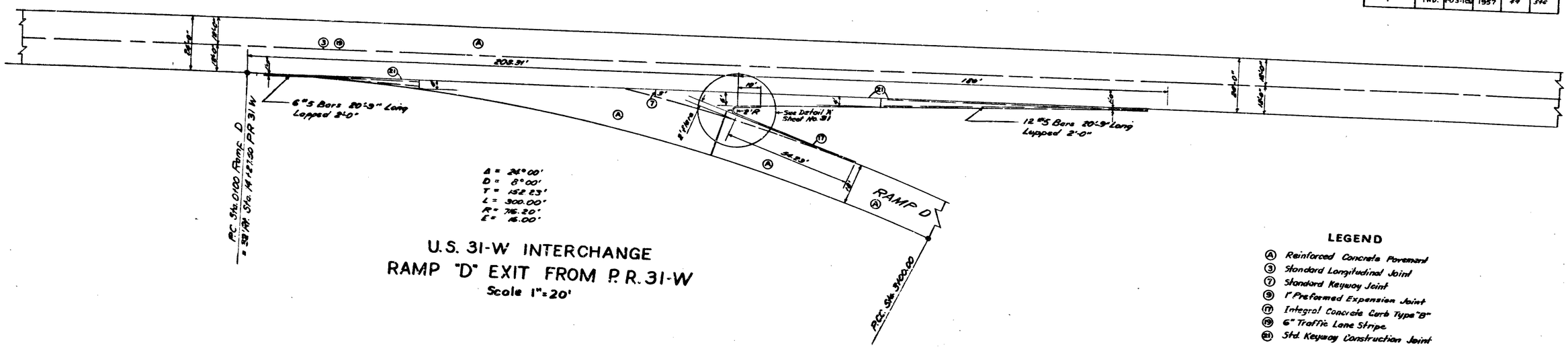
U.S. 31-W INTERCHANGE
RAMP "C" ENTRANCE TO LINE "P"
Scale 1" = 20'

LEGEND

- (A) Reinforced Concrete Pavement
- (3) Standard Longitudinal Joint
- (7) Standard Keyway Joint
- (8) 1" Preformed Expansion Joint with Load Transfer
- (9) 1" Preformed Expansion Joint
- (11) Integral Concrete Curb Type "B"
- (16) 6" Traffic Lane Stripe
- (21) Std. Keyway Construction Joint
- (14) Std. Lip Gutter

USBR 10-31-57

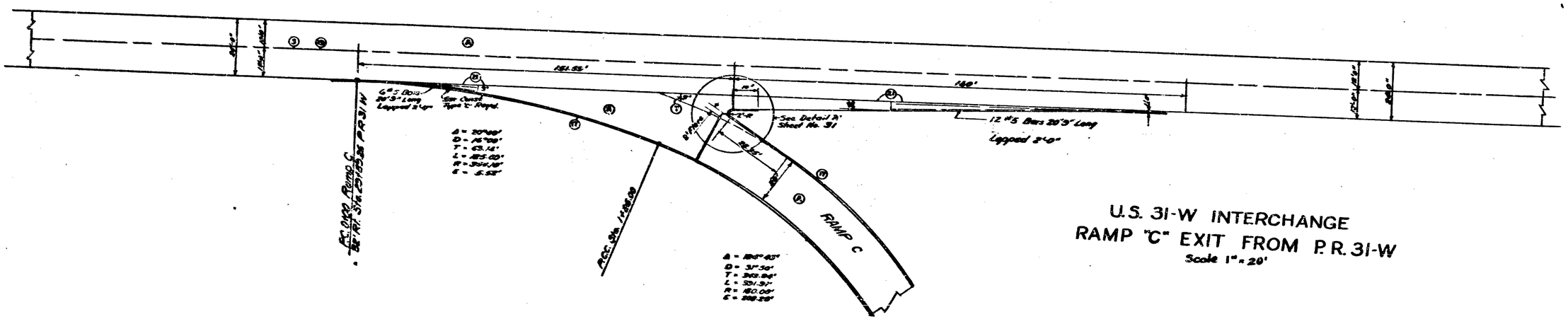
FEDERAL DIVISION	ROAD NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4		IND.	103-105	1957	49	546



U.S. 31-W INTERCHANGE
RAMP "D" EXIT FROM P.R. 31-W
Scale 1"=20'

LEGEND

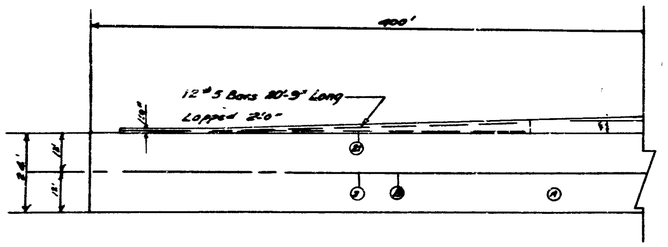
- (A) Reinforced Concrete Pavement
- (3) Standard Longitudinal Joint
- (7) Standard Keyway Joint
- (9) 1" Preformed Expansion Joint
- (11) Integral Concrete Curb Type "B"
- (19) 6" Traffic Lane Stripe
- (21) Std. Keyway Construction Joint

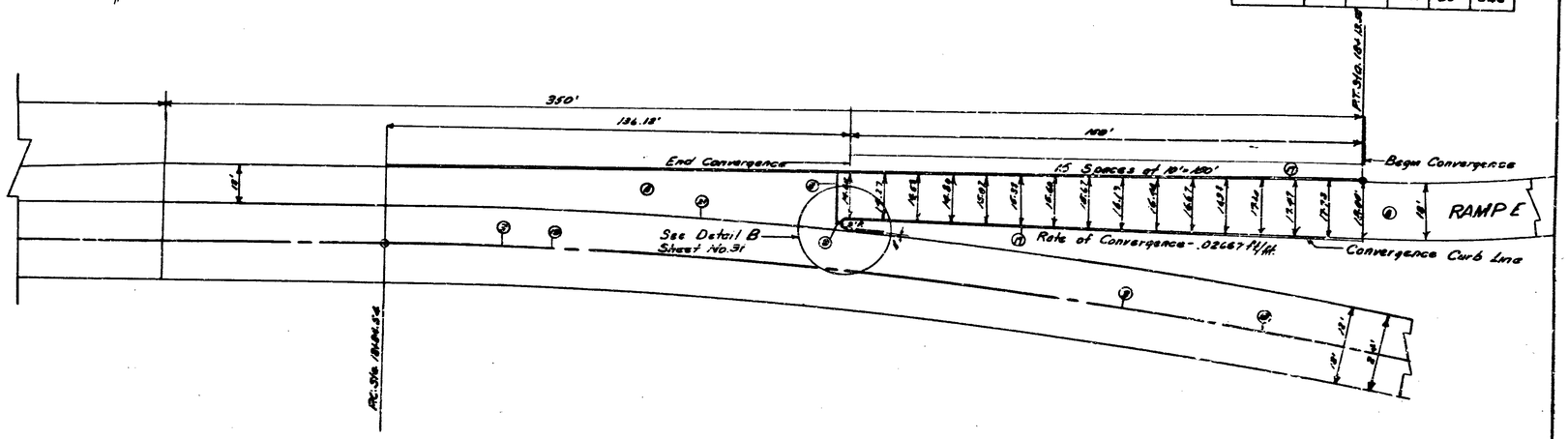


U.S. 31-W INTERCHANGE
RAMP "C" EXIT FROM P.R. 31-W
Scale 1"=20'

SHEETS 48-X-57

FEDERAL ROAD DISTRICT NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-03-1(63)	1957	58	546



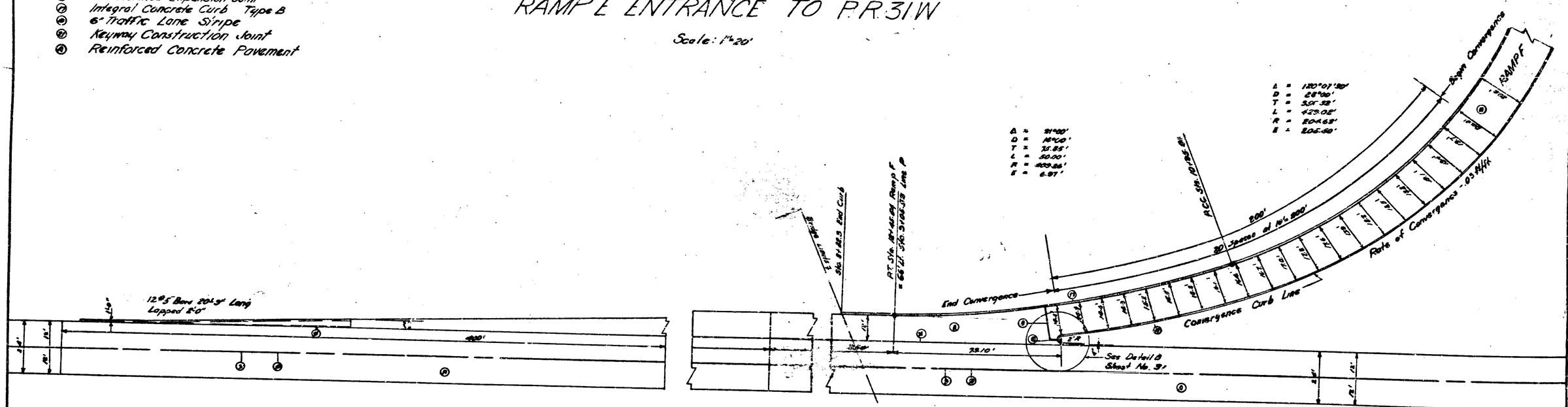


~LEGEND~

- ⑤ Longitudinal Joint
- ⑦ Keyway Joint
- ⑧ 1" Preformed Expansion Joint with Load Transfer
- ⑨ 1" Preformed Expansion Joint
- ⑰ Integral Concrete Curb Type B
- ⑳ 6" Traffic Lane Stripe
- ㉑ Keyway Construction Joint
- ㊹ Reinforced Concrete Pavement

U.S. 31W INTERCHANGE
RAMP E ENTRANCE TO P.R. 31W

Scale: 1"=20'

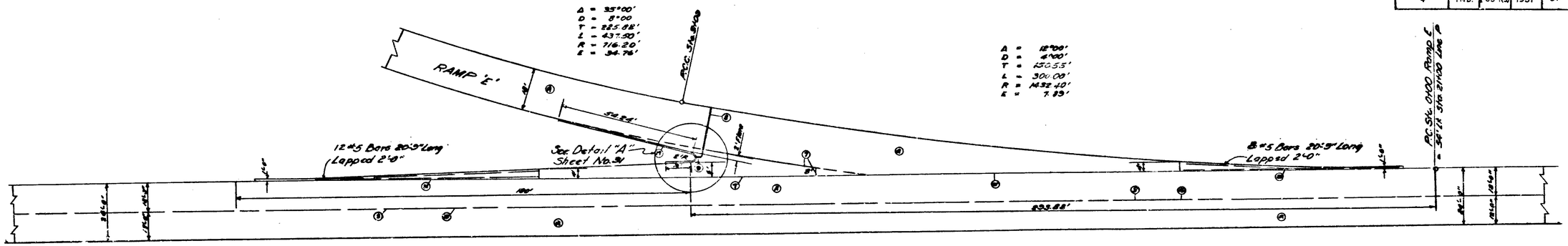


U.S. 31W INTERCHANGE
RAMP F ENTRANCE TO LINE P

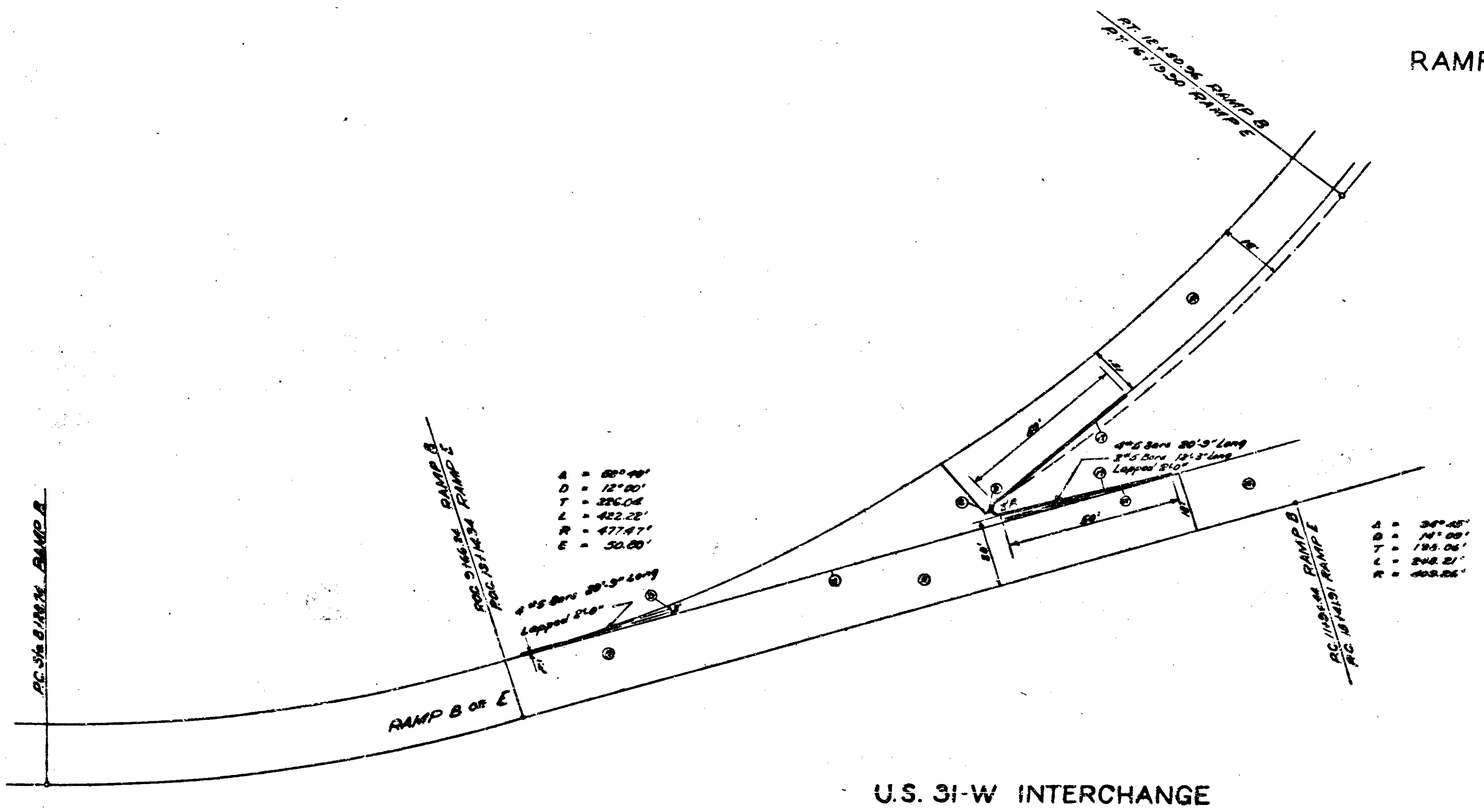
Scale 1"=20'

WHD 10-21-57

FEDERAL ROAD DIVISION NO.	STATE	PROJ NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-03-1(5)	1957	51	546



U.S. 31-W INTERCHANGE
RAMP "E" EXIT FROM LINE "P"
Scale 1" = 20'

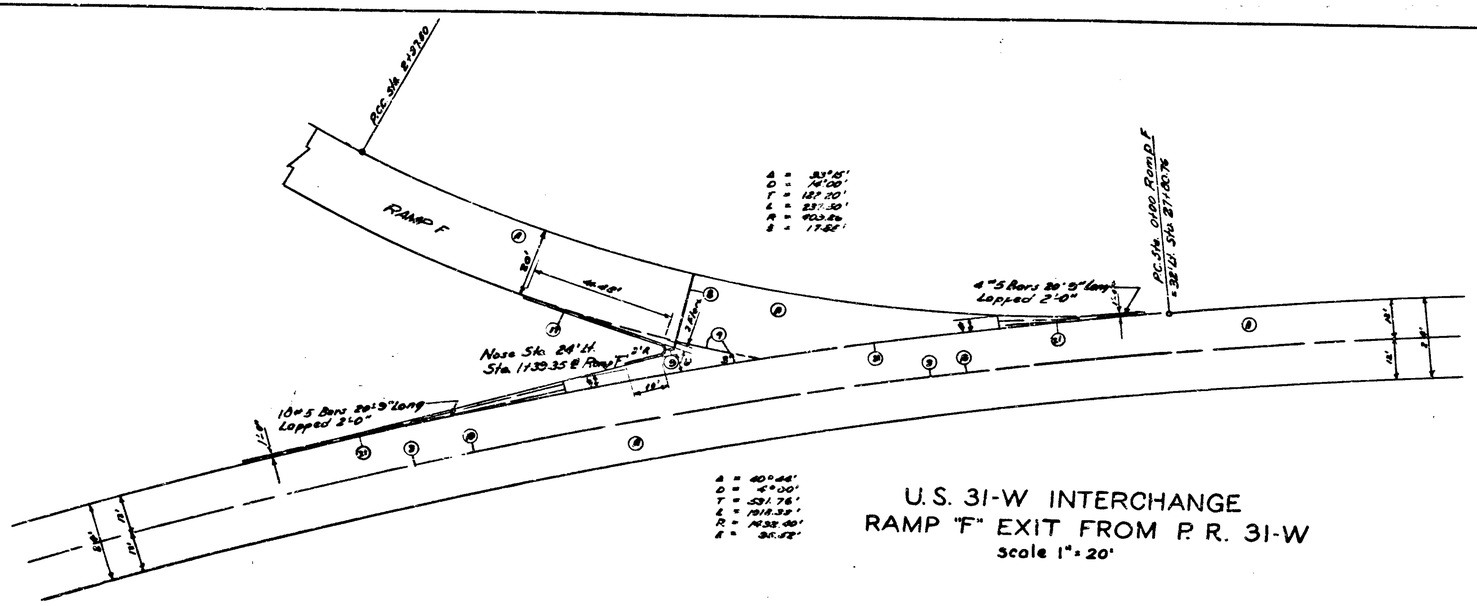


U.S. 31-W INTERCHANGE
RAMPS "B" & "E"
Scale 1" = 20'

LEGEND

- (A) Reinforced Concrete Pavement
- (3) Standard Longitudinal Joint
- (7) Standard Keyway Joint
- (9) 1" Preformed Expansion Joint With Load Transfer
- (9a) 1" Preformed Expansion Joint
- (12) Integral Concrete Curb Type "B"
- (16) 6" Traffic Lane Stripe
- (18) Std. Keyway Construction Joint

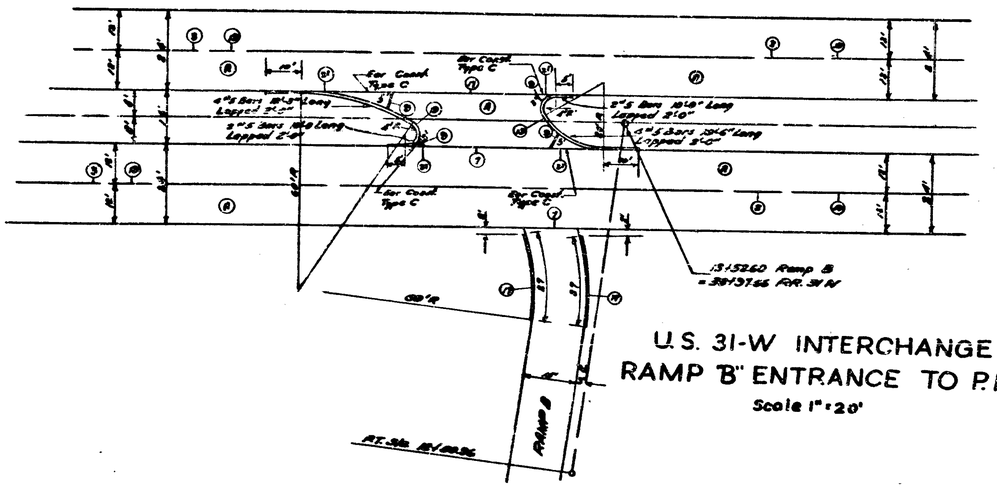
FEDERAL ROAD DIVISION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-65-1(60)	1957	24	546



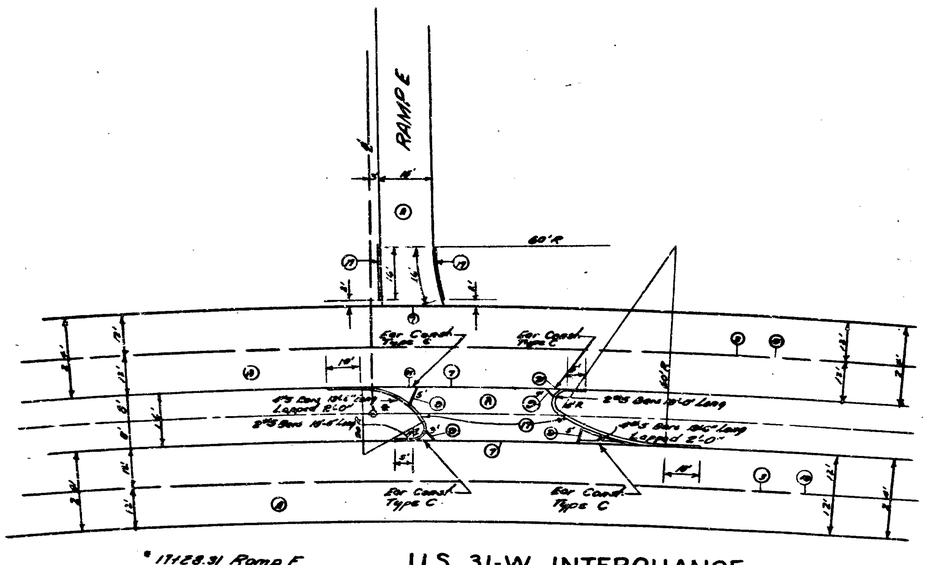
U.S. 31-W INTERCHANGE
RAMP "F" EXIT FROM P.R. 31-W
Scale 1" = 20'

LEGEND

- (A) Reinforced Concrete Pavement
- (3) Standard Longitudinal Joint
- (7) Standard Keyway Joint
- (8) 1" Preformed Expansion Joint With Load Transfer
- (9) 1" Cork, Cork-Rubber or Fiber Expansion Joint
- (17) Integral Concrete Curb Type "B"
- (19) 6" Traffic Lane Stripe
- (21) Std. Keyway Construction Joint



U.S. 31-W INTERCHANGE
RAMP "B" ENTRANCE TO P.R. 31-W
Scale 1" = 20'

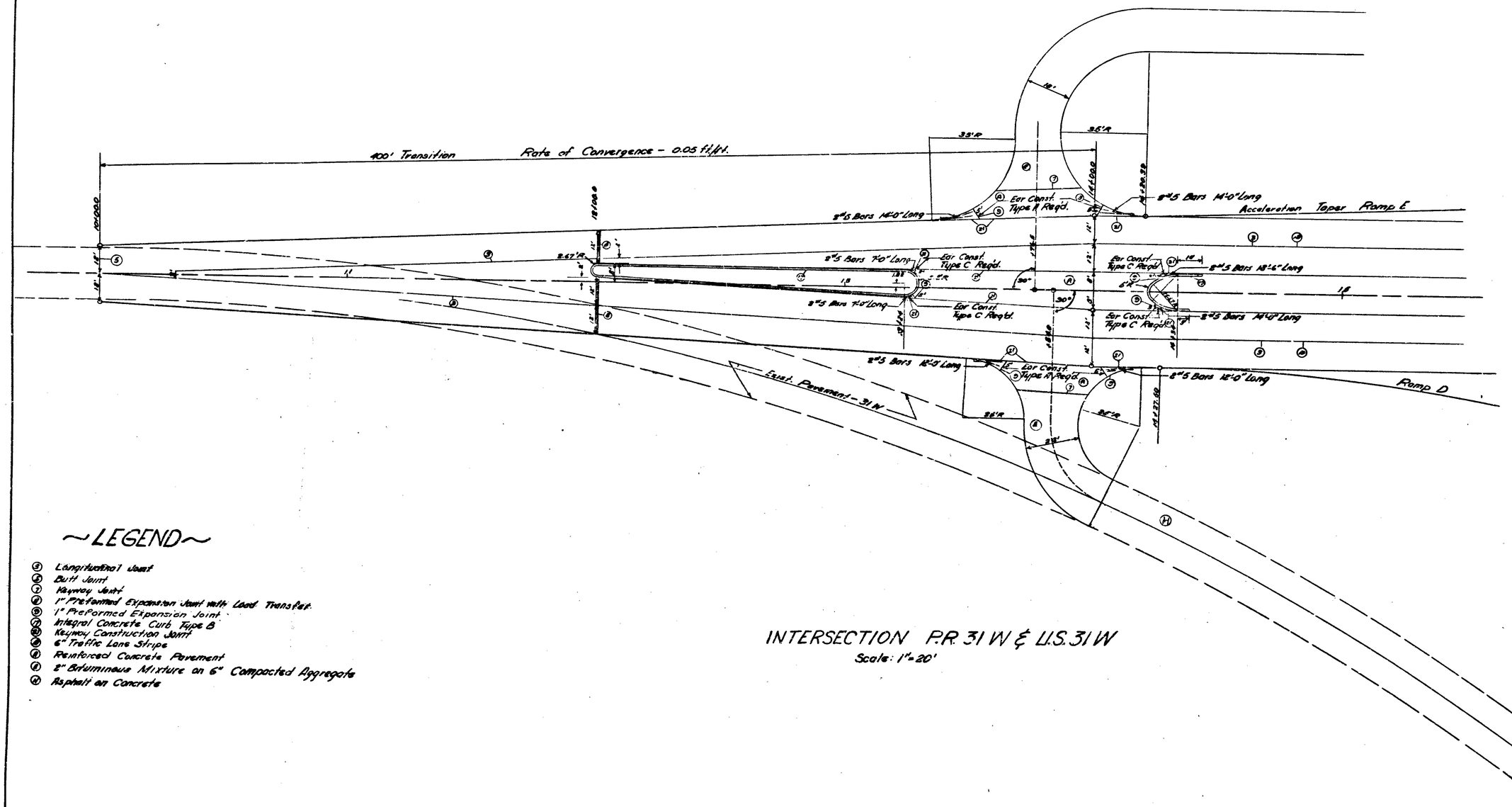


* 17+28.31 Ramp F
= 24+08.90 P.R. 31-W

U.S. 31-W INTERCHANGE
RAMP "E" ENTRANCE TO P.R. 31-W
Scale 1" = 20'

BRD 8-2647

FEDERAL ROAD DISTRICT NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-03-1(5)	1957	58	546



~LEGEND~

- ⑤ Longitudinal Joint
- ⑥ Butt Joint
- ⑦ Keyway Joint
- ⑧ 1" Preformed Expansion Joint with Load Transfer
- ⑨ 1" PrePormed Expansion Joint
- ⑫ Integral Concrete Curb Type B
- ⑬ Keyway Construction Joint
- ⑭ 6" Traffic Lane Stripe
- ⑮ Reinforced Concrete Pavement
- ⑯ 2" Bituminous Mixture on 6" Compacted Aggregate
- ⑰ Asphalt on Concrete

INTERSECTION P.R. 31 W & U.S. 31 W

Scale: 1"=20'

HRD 10-26-57

FEDERAL ROAD DISTRICT NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-031(5)	1957	54	546

Δ = 21°46'
D = 8°00'
T = 184.36'
L = 365.48'
R = 716.20'
E = 18.47'

300' Pavement Edge Transition Lt & Rt.
Rate of Convergence - 0.030 Ft/Ft.

157' Pavement Edge Transition Lt & Rt.
Rate of Convergence - 0.051 Ft/Ft.

PC 40+16.58

40 ℄ PR 31-W-7

End Construction

4" Concrete Walk

Concrete Slab

To Sellersburg

Conc. Curb in Place

Existing Pavement

End Construction

NOTE:
See Sheet No. 55 for
Curbs & Joint Construction

LEGEND

See Sheet 55

INTERSECTION OF P.R. 31 W & U.S. 31
Scale: 1"=20'

LBDS 10-2-57

FEDERAL ROAD DISTRICT NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	31-D(3)	1957	65	846

March 31, 1958
RE R/W Placed on Detail
Sta. 43+00 to 45+00
R/W Revised

Δ = 8°04'
D = 3°00'
T = 196.85'
L = 265.93'
R = 716.20'
E = 12.67'

PC 40+63.48

40' ℄ PR 31-W

2"ø Bars 17'6" Long

Cor. Const. Type B Rmpd.

2"ø Bars 20'6" Long

4"ø Bars 18'6" Long Lapped 2'6"

Cor. Const. Type A Rmpd.

2"ø Bars 18'6" Long

Cor. Const. Type B Rmpd.

2"ø Bars 18'6" Long

Cor. Const. Type B Rmpd.

2"ø Bars 18'6" Long Lapped 2'6"

Cor. Const. Type A Rmpd.

End Construction 45+00

4" Concrete Wall

Concrete Slab

To Schneberg

Concrete Curb in Place

R℄E I W

Conc. Curb in Place to be Removed

Approx. R℄R I W

NOTE:
See Sheet No. 34 for Transition & Curve Data.

Existing Pavement

End Construction

INTERSECTION OF PR 31 W & U.S. 31
Scale: 1" = 20'

LEGEND

1. Longitudinal Joint
2. Butt Joint
3. Keyway Joint
4. 1" Preformed Expansion Joint with Load Transfer
5. 1" Preformed Expansion Joint
6. Std. Center Curb
7. Integral Concrete Curb Type B
8. 6" Traffic Lane Stripe
9. Keyway Construction Joint
10. Reinforced Concrete Pavement
11. 6" Bituminous Mixture
12. Existing Asphalt on Concrete
13. Existing Concrete Pavement
14. Concrete Curb Type B

LAYOUT 1-8-57

INDIANA
STATE HIGHWAY DEPARTMENT
CROSS SECTIONS

CUT FILL

I-03-1(9) 1957 56 546
I.R. 31W

500
490
480
470
460

-0.61%
600' V.C.
-3.30%
450' V.C.
+1.34%
478.30

3 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36

500
490
480
470

+1.34%

35 36 37 38 39 40 41 42 43 44 45 46

490
480
470

Pl. 6.90
Elev. 474.68
288' V.C.

7 8 9 10

31-W Relocation

Pl. 1.50
Elev. 528.32
446' V.C.

+2.56%
-0.23%

Edge 31-W Pavt.

500
490
480

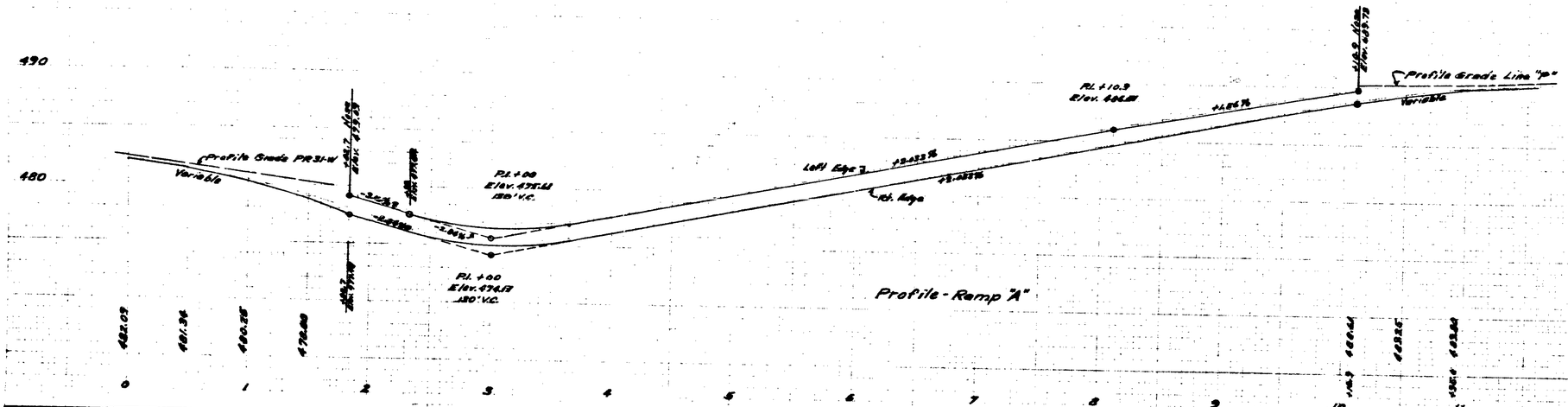
Profile - Frontage Road
West Side 31-W Interchange

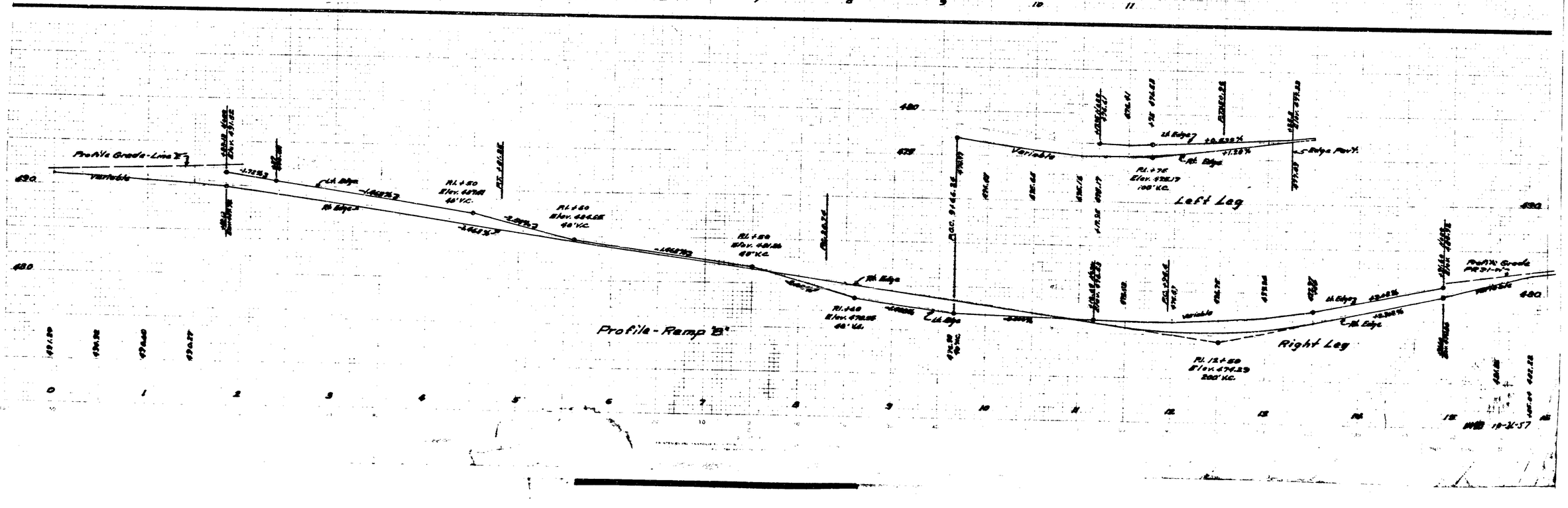
12 13 14 15 16 17 18 19 24 21 22 23 24 25 26 27

AWB 12-2-57

INDIANA
STATE HIGHWAY DEPARTMENT
DIVISION OF DESIGNS

I-03-(0) 1957 57 546
31-W Interchange



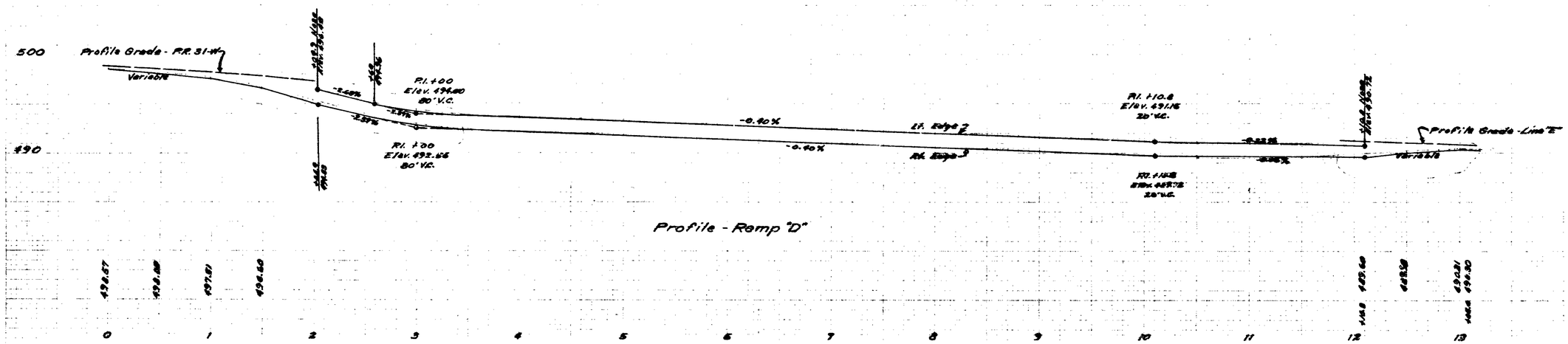


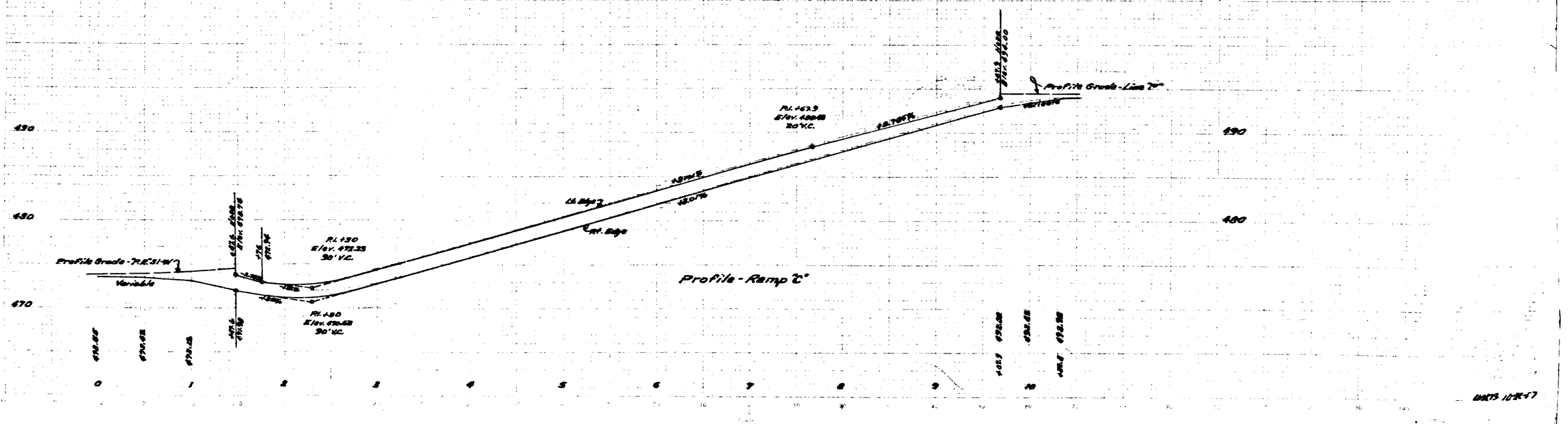
19-X-57

INDIANA
STATE HIGHWAY COMMISSION
PLANS SECTION

I-69-4(10) 1967 58 546

31-W Interchange

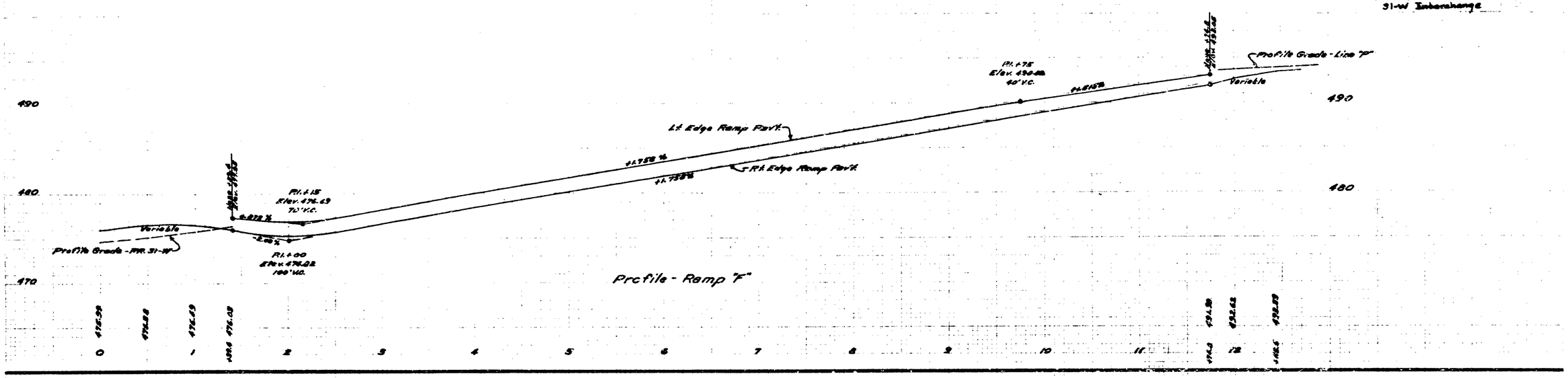


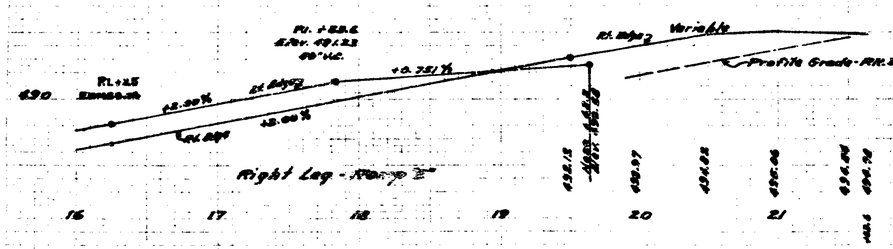


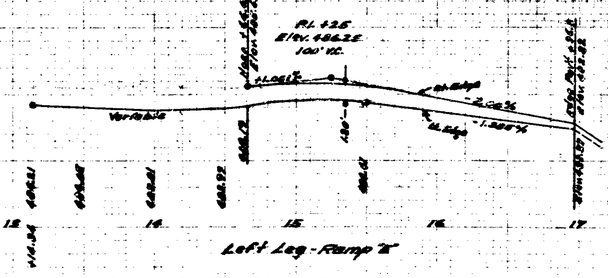
UNITS 10-R-47

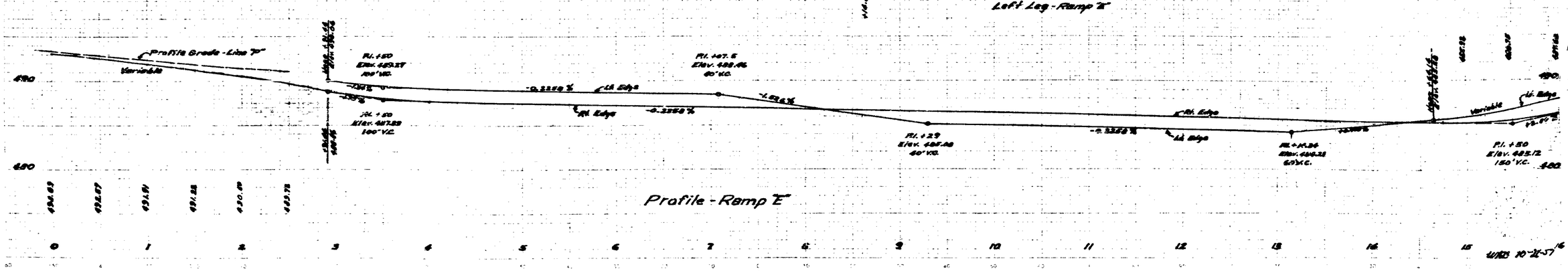
I-05-1(5) 1967 58 546

31-W Interchange





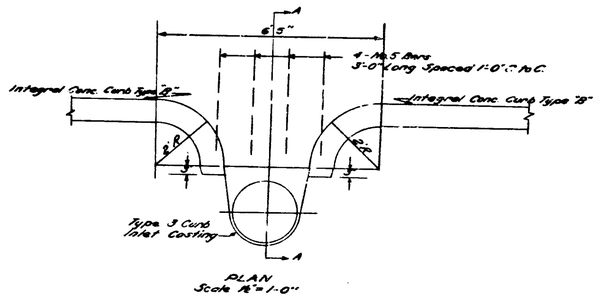


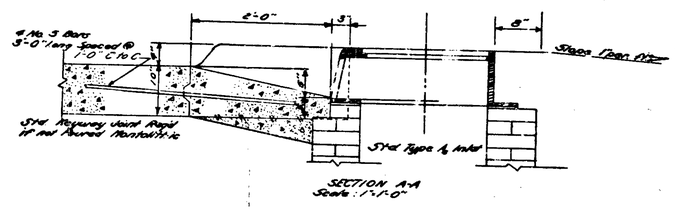


4/1/65 10-22-57 16

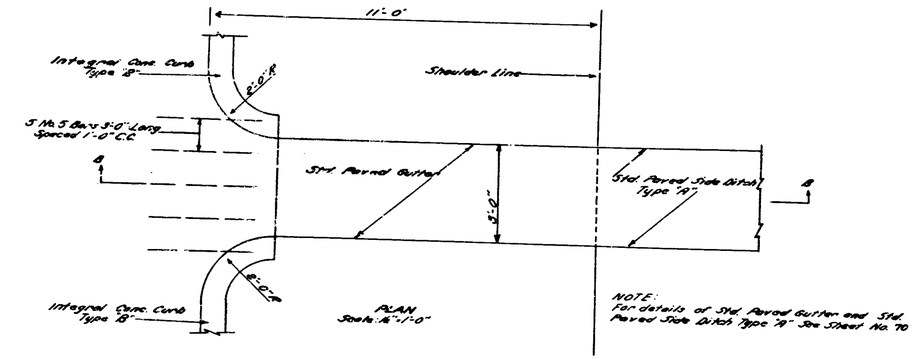
FEDERAL ROAD DIVISION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-03-1(5)	1957	60	546

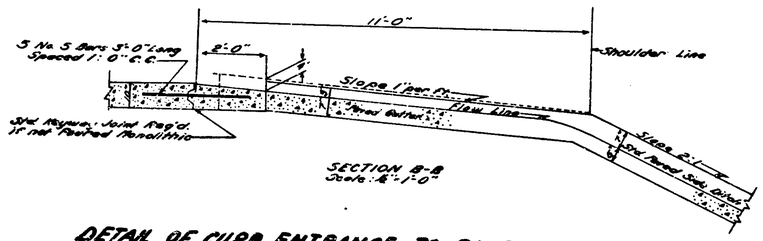
5-19-58 Revised TYPE A_3 Inlet Entrance.



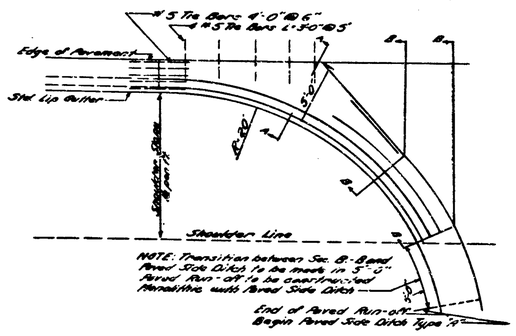


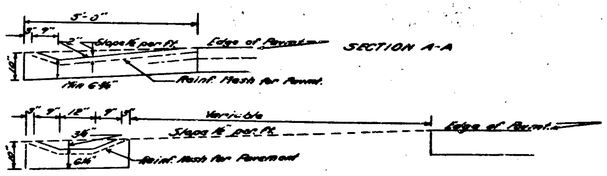
DETAIL OF ENTRANCE TO TYPE A_3 INLET

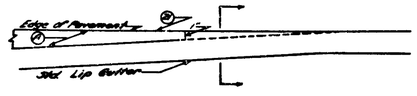


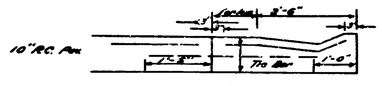


DETAIL OF CURB ENTRANCE TO PAVED SIDE DITCH

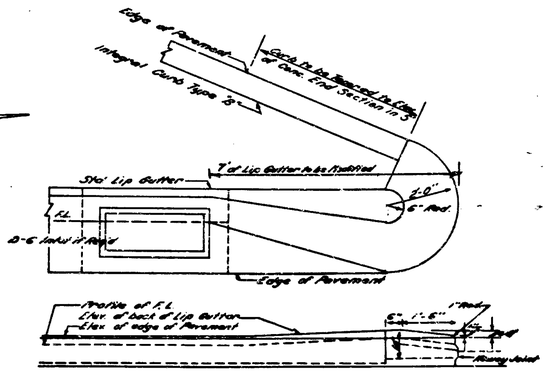








Added width of Gutter to be Measured and Paid for as Reinforced Concrete Pavement

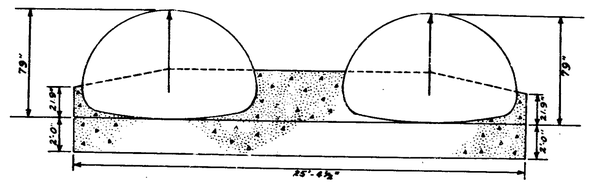


11-20-57

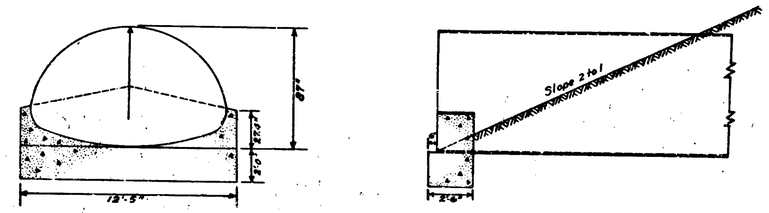
FEDERAL ROAD DIVISION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I03-1(5)	1957	61	546

PIPE FOR 6" SUBSURFACE DRAINS

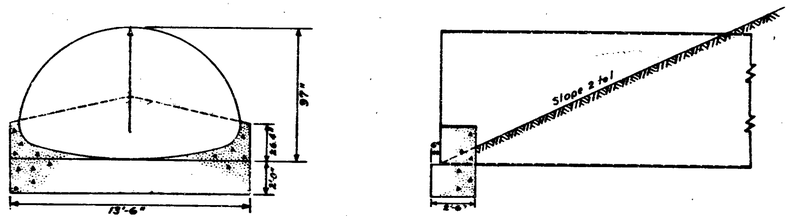
LINE	LANE	STATION	LENGTH IN FT. INCL. FITTING	TYPE OF FITTING	GUIDE POST TYPE 'A' EA	SODDING SQ. YDS	AGGREGATE CU. YD.	OUTLET
"E"	S.B.	208+50 to 210+00	176	6"x6"-45°-H	1	2	12	Drain thru shoulder of S.B. lane Lt. Sta. 210+00
"E"	N.B.	246+50 to 251+00	476	6"x6"-45°-H	1	2	32	Drain thru shoulder of N.B. lane Rt. Sta. 246+38
"E"	S.B.	246+80 to 251+00	446	6"x6"-45°-H	1	2	30	Drain thru shoulder of S.B. lane Lt. Sta. 246+68
"E"	N.B.	251+00 to 253+70	436	6"x6"-45°-H	1	2	28	Drain thru shoulder of N.B. lane Rt. Sta. 253+00
"E"	S.B.	251+00 to 257+30	456	6"x6"-45°-H	1	2	44	Drain thru shoulder of S.B. lane Lt. Sta. 257+44
"E"	N.B.	266+90 to 272+26	610	6"x6"-45°-H	1	2	41	Drain thru shoulder of N.B. lane Rt. Sta. 266+38
"E"	S.B.	268+70 to 272+30	446	6"x6"-45°-H	1	2	30	Drain thru shoulder of S.B. lane Sta. 268+52
"E"	N.B.	272+32 to 272+00	704	2-6"-Y	1	2	47	Drain thru shoulder of N.B. lane Rt. Sta. 272+16
"E"	S.B.	273+18 to 279+00	662	6"-45°-H			44	Connect to "Y" in N.B. lane Rt. Sta. 272+82
"E"	S.B.	279+28 to 287+00	812	6"-45°-H			54	Connect to N.B. drain inlet at Sta. +72+00
"E"	N.B.	272+78 to 283+00	398	6"-45°-H	1	2	46	Drain 18" shoulder of N.B. lane Rt. Sta. 279+78
"E"	N.B.	283+00 to 293+76	598	6"-45°-H	1	2	36	Dr. thru shoulder of N.B. lane Rt. Sta. 288+36
"E"	S.B.	293+50 to 302+98	974	6"-45°-H	1	2	65	Drain thru shoulder of S.B. lane Lt. Sta. 293+32
"E"	N.B.	293+50 to 302+10	1086	6"-45°-H	1	2	79	Drain thru shoulder of N.B. lane Rt. Sta. 293+38
"E"	S.B.	303+00 to 312+92	1018	6"-Y	1	2	68	Drain thru shoulder of S.B. lane Lt. Sta. 302+88
"E"	N.B.	302+12 to 312+28	1064	6"-45°-H			70	Connect to "Y" in N.B. lane Lt. Sta. 302+00
"E"	N.B.	313+00 to 318+00	540	6"-45°-H			36	Connect to N.B. drain inlet at Sta. 312+70
"E"	S.B.	312+36 to 320+00	532	6"-45°-H	1	2	36	Drain 18" shoulder of S.B. lane Lt. Sta. 312+76
"E"	N.B.	318+00 to 327+76	1002	6"-45°-H	1	2	67	Drain thru shoulder of N.B. lane Rt. Sta. 327+96
"E"	S.B.	318+00 to 325+36	783	6"-45°-H	1	2	50	Drain thru shoulder of S.B. lane Lt. Sta. 325+66
"E"	S.B.	325+30 to 330+32	508	6"-45°-H	1	2	34	Drain thru shoulder of S.B. lane Lt. Sta. 330+50
"E"	N.B.	331+20 to 335+00	406	6"-45°-H	1	2	27	Drain thru shoulder of N.B. lane Rt. Sta. 335+18
"E"	S.B.	336+80 to 342+80	626	6"-45°-H	1	2	42	Drain thru shoulder of S.B. lane Lt. Sta. 342+68
"E"	N.B.	338+80 to 344+10	276	6"-45°-H	1	2	18	Drain thru shoulder of N.B. lane Rt. Sta. 341+18
"E"	N.B.	342+50 to 353+00	1376	6"-45°-H	1	2	91	Drain thru shoulder of N.B. lane Rt. Sta. 343+82
"E"	S.B.	342+90 to 353+00	826	6"-45°-H	1	2	55	Drain thru shoulder of S.B. lane Lt. Sta. 352+88
"E"	S.B.	371+00 to 374+00	754	6"-45°-H	1	2	50	Drain thru shoulder of S.B. lane Lt. Sta. 370+82
"E"	N.B.	372+00 to 374+50	626	6"-45°-H	1	2	40	Drain thru shoulder of N.B. lane Rt. Sta. 371+92
"E"	N.B.	376+00 to 381+00	1426	6"-45°-H	1	2	95	Drain thru shoulder of N.B. lane Rt. Sta. 380+68
"E"	S.B.	376+00 to 381+80	476	6"-45°-H	1	2	32	Drain thru shoulder of S.B. lane Lt. Sta. 381+08
"E"	S.B.	381+58 to 389+	860	2-6"-45°-H	1	2	57	Drain thru shoulder of S.B. lane Lt. Sta. 384+38
"E"	S.B.	389+90 to 394+00	466	6"-45°-H	1	2	31	Drain thru shoulder of S.B. lane Lt. Sta. 394+46
"E"	N.B.	389+ to 394+00	626	6"-45°-H	1	2	36	Drain thru shoulder of N.B. lane Rt. Sta. 390+18
"E"	S.B.	394+00 to 402+26	968	6"-45°-H	1	2	63	Drain thru shoulder of S.B. lane Lt. Sta. 401+60
"E"	N.B.	394+50 to 402+80	876	6"-45°-H	1	2	56	Drain thru shoulder of N.B. lane Rt. Sta. 402+18
"E"	S.B.	409+46 to 409+90	710	6"-45°-H	—	—	47	Drain thru shoulder of S.B. lane Lt. Sta. 409+70
"E"	N.B.	409+70 to 410+80	706	6"-45°-H	1	2	47	Drain thru shoulder of N.B. lane Rt. Sta. 410+68
"E"	S.B.	409+96 to 417+80	800	6"-45°-H	1	2	53	Drain thru shoulder of S.B. lane Lt. Sta. 417+08
"E"	N.B.	414+50 to 420+50	926	6"-45°-H	1	2	62	Drain thru shoulder of N.B. lane Rt. Sta. 419+82
"E"	N.B.	421+50 to 429+70	1176	6"-Y	1	2	87	Drain thru shoulder of N.B. lane Rt. Sta. 428+96
"E"	S.B.	422+50 to 427+80	676	6"-45°-H			45	Connect to "Y" in N.B. lane Rt. Sta. 429+78
"E"	S.B.	429+96 to 437+80	800	6"-45°-H	1	2	53	Drain thru shoulder of N.B. lane Rt. Sta. 434+96
"E"	N.B.	430+50 to 436+50	826	6"-45°-H	1	2	55	Drain thru shoulder of S.B. lane Lt. Sta. 437+08
"E"	N.B.	436+50 to 439+70	1176	6"-Y	1	2	87	Drain thru shoulder of N.B. lane Rt. Sta. 438+96
"E"	S.B.	437+50 to 439+70	826	6"-45°-H			55	Connect to "Y" in N.B. lane Rt. Sta. 438+78
"E"	S.B.	439+96 to 446+50	826	6"-45°-H	1	2	55	Drain thru shoulder of S.B. lane Lt. Sta. 446+08
"E"	N.B.	440+00 to 446+50	826	6"-45°-H	1	2	55	Drain thru shoulder of N.B. lane Rt. Sta. 445+68
"E"	S.B.	446+96 to 456+00	1216	6"-45°-H	1	2	68	Drain thru shoulder of S.B. lane Lt. Sta. 456+08
"E"	N.B.	446+00 to 456+00	826	6"-45°-H	1	2	55	Drain thru shoulder of N.B. lane Rt. Sta. 455+68
"E"	N.B.	456+00 to 466+50	1116	6"-45°-H	1	2	76	Drain thru shoulder of N.B. lane Rt. Sta. 464+82
"E"	S.B.	456+00 to 466+50	826	6"-45°-H	1	2	55	Drain thru shoulder of S.B. lane Lt. Sta. 465+08
"E"	N.B.	476+00 to 486+50	1216	6"-45°-H	1	2	68	Drain thru shoulder of N.B. lane Rt. Sta. 475+82
"E"	S.B.	476+00 to 486+50	826	6"-45°-H	1	2	55	Drain thru shoulder of S.B. lane Lt. Sta. 486+08
"E" 60°	N.B.	32+50 to 37+00	826	6"-45°-H	1	2	55	Drain thru shoulder of N.B. lane Rt. Sta. 36+68
"E" 60°	S.B.	32+50 to 37+00	826	6"-45°-H	1	2	55	Drain thru shoulder of S.B. lane Lt. Sta. 36+68
Ramp "A"		0+00 to 11+00	1100				73	Connect to "Y" in N.B. lane Lt. Sta. 272+82 Lane "E"
Ramp "B"		6+50 to 10+00	360	6"-45°-H	1	2	24	Drain thru shoulder Rt. Sta. 10+50 Ramp "B"
Ramp "C"		0+00 to 5+00	526	6"-45°-H	1	2	35	Drain thru shoulder Rt. Sta. 5+18 Ramp "C"
Ramp "C"		8+00 to 11+26	290	6"-45°-H			19	Drain thru shoulder Rt. Sta. 8+18 Ramp "C"
PES-W	N.B.	18+00 to 23+70	1126	6"-45°-H	1	2	80	Drain thru shoulder of N.B. lane Rt. Sta. 23+88
PES-W	S.B.	18+00 to 23+82	1808	6"-45°-H	1	2	60	Drain thru shoulder of S.B. lane Lt. Sta. 30+00
PES-W	N.B.	38+00 to 46+00	742	6"-45°-H	1	2	49	Drain thru shoulder of N.B. lane Rt. Sta. 37+08
PES-W	S.B.	38+00 to 46+00	726	6"-45°-H	1	2	49	Drain thru shoulder of S.B. lane Lt. Sta. 37+92
Ramp "A"		1+00 to 7+50	676	6"-45°-H	1	2	45	Drain thru shoulder Rt. Sta. 7+68
Ramp "A"		7+50 to 12+00	476	6"-45°-H	1	2	32	Drain thru shoulder Lt. Sta. 12+18 - Loop Leg
Ramp "C"		8+00 to 3+00	526	6"-45°-H	1	2	35	Drain thru shoulder Rt. Sta. 3+82
Ramp "D"		1+00 to 10+00	926	6"-45°-H	1	2	62	Drain thru shoulder Rt. Sta. 10+18



DETAIL OF SPECIAL PIPE ANCHOR
FOR
TWIN 117"X 79" STRUCTURAL PLATE PIPE ARCH
SCALE 1"=4'



DETAIL OF SPECIAL PIPE ANCHOR
FOR
137"X 87" STRUCTURAL PLATE PIPE ARCH
SCALE 1"=4'

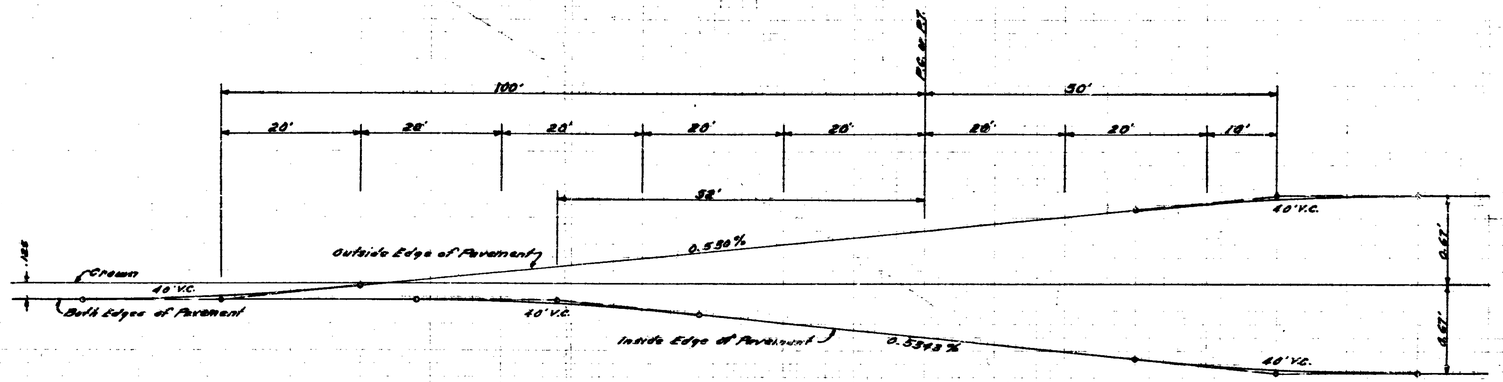


DETAIL OF SPECIAL PIPE ANCHOR
FOR
150" X 97" STRUCTURAL PLATE PIPE ARCH
SCALE 1"=4'

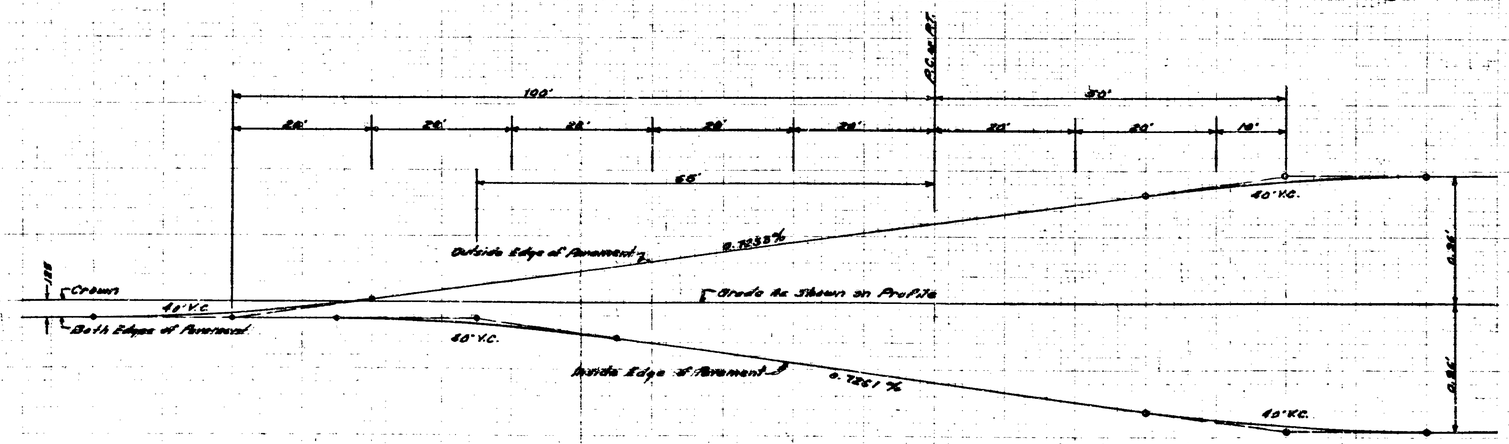
Note:
All Anchors are to be Class "D" Concrete

DETAILS

WHS 10-26-57



Superelevation Transition for 4°00' Curves
Lines "RR-60" & "PR 31-W"



Superelevation Transition for 6°00' Curves - Lines PR 60'

Scale: 1"=10' Horiz.
1"=5' Vert.

FEDERAL ROAD DISTRICT NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-03-4(5)	1967	63	546

GUARD RAIL

LINE	TYPE	STATION TO STATION	LEFT	RIGHT	L.F. REQ'D
E	Standard	212+97 - 218+35		V	774
E	Standard	213+98 - 219+90	V		592
E	Standard	224+04 - 229+56		V	552
E	Standard	223+18 - 232+52	V		994
E	Standard	257+50 - 265+66		V	816
E	Standard	261+96 - 267+00	V		504
E	Standard	331+40 - 335+80	V		440
E	Standard	346+81 - 348+57		V	176
E	Standard	348+27 - 350+83	V		176
P	Standard	88+81 - 501+65	V		264
P	Steel Beam	90+65 - 94+10		V	345
P	Steel Beam	90+55 - 94+10	V		345
P	Standard	94+10 - 131+20		V	3710
P	Standard	94+10 - 131+20	V		3710
P	Steel Beam	131+20 - 132+25		V	95
P	Steel Beam	131+20 - 132+56	V		126
P	Steel Beam	134+59 - 135+80		V	126
P	Steel Beam	134+85 - 135+80	V		95
P-Q	Standard	135+80 - 164+76		V	2896
P-Q	Standard	135+80 - 160+60	V		2480
Q	Standard	173+40 - 181+00	V		160
Q	Standard	179+96 - 181+00		V	104
E	Standard	363+98 - 367+02		V	304
E	Standard	363+52 - 367+51	V		352
		S. R. 60 Interchange			
Ramp A	Steel Beam	18+90 - 21+85 S.R. 60	V		195
Ramp B	Steel Beam	18+50 S.R.60 - 5+00		V	725
Ramp B	Steel Beam	17+93 S.R.60 - 5+00	V		462
Ramp C	Steel Beam	10+00 - 17+25 S.R. 60	V		412
Ramp D	Steel Beam	21+85 S.R.60 - 6+00	V		538
		U.S. 31 W Interchange			
P	Steel Beam	94+92 - 131+35		V	333
31 W	Steel Beam	32+00 - 35+00	V		30"
Ramp A	Steel Beam	2+20 - 6+00	V		380
Ramp B	Steel Beam	10+00 - 14+90		V	490
Ramp C	Steel Beam	1+60 - 6+40	V		480
Ramp C	Steel Beam	8+00 - 10+40		V	240
Ramp E	Steel Beam	9+00 - 8+00	V		900
Ramp F	Steel Beam	1+60 - 8+50	V		690
Ramp F	Steel Beam	5+00 - 12+50		V	750

STREET BARRICADES

25 L.F. Steel Beam Guard Rail on Rt. Dr. @ Sta. 332+60 - 332+91 Line E
25 L.F. Steel Beam Guard Rail on Rt. Dr. @ Sta. 353+50 - 353+74 Line E
37.5 L.F. Steel Beam Guard Rail on Cty. Rd @ Sta. 481+98 - 481+72.5 Line P
S.R. 60 Interchange
25 L.F. Steel Beam Guard Rail on S.R. 60 @ Sta. 9+20 - 9+45 Ramp A
25 L.F. Steel Beam Guard Rail on Cty. Rd @ Sta. 3+10 - 3+35 Ramp A
U.S. 31 W Interchange
25 L.F. Steel Beam Guard Rail on U.S. 31 W Rt. of Sta. 7+45 - 7+70 Ramp D
37.5 L.F. Steel Beam Guard Rail on U.S. 31 W Rt. of Sta. 41+10 - 41+72 Ramp B
37.5 L.F. Steel Beam Guard Rail on U.S. 31 W Rt. of Sta. 44+50 - 44+88 P.R. 31 W

SODDING

LINE	STATION TO STATION	TYPE	LIN. FT.	SQ. YDS.
E	169+899 - 219+50	Rt. Shld.	4960	1463
E	169+823 - 220+75	Lt. Shld.	5085	1500
E	169+839 - 220+11	Median	5023	4420
E	223+15 - 273+00	Rt. Shld.	4985	1471
E	224+40 - 273+00	Lt. Shld.	4860	1434
E	223+80 - 273+00	Median	4963	4332
E	220+50 - 240+25	Ditch Lt.		218
E	226+40 - 230+50	Ditch Lt.		378
E	265+00 - 266+90	Ditch Rt.		232
E	301+00 - 366+00	Rt. Shld.	6500	1918
E	301+00 - 366+00	Lt. Shld.	6500	1918
E	301+00 - 366+00	Median	6500	5720
E	312+75 - 314+25	Ditch Lt.		103
E	322+00 - 325+50	Ditch Lt.		427
E	323+75 - 325+75	Ditch Rt.		200
E	326+00 - 329+75	Ditch Lt.		250
E	330+50 - 334+75	Ditch Rt.		520
E	350+25 - 356+00	Ditch Rt.		709
E	354+50 - 356+00	Ditch Lt.		184
P	2+00 - 75+00	Rt. Shld.	6965	2055
P	2+00 - 75+00	Lt. Shld.	6965	2055
P	2+00 - 75+00	Median	6965	6129
P	49+75 - 53+00	Ditch Lt.		396
P	51+70 - 54+50	Ditch Rt.		282
P	61+00 - 72+50	Ditch Lt.		1404
P	61+00 - 75+00	Ditch Rt.		1710
P	94+10 - 131+20	Rt. Shld.	3710	1095
P	94+10 - 131+20	Lt. Shld.	3710	1095
P	94+10 - 131+20	Median	3710	3265
P-Q	135+80 - 181+00	Rt. Shld.	4520	1334
P-Q	135+80 - 181+00	Lt. Shld.	4520	1334
P-Q	135+80 - 181+00	Median	4520	3978
Q	164+00 - 173+50	Ditch Lt.		1160
Q	166+00 - 174+30	Ditch Lt.		1020
Q	176+75 - 178+00	Ditch Lt.		153
Q	176+75 - 179+00	Ditch Rt.		275
E	365+00 - 370+00	Ditch Lt.		562
	S.R. 60 Interchange			
E	277+10 - 293+40	Rt. Shld.	1830	540
E	280+70 - 300+00	Lt. Shld.	1930	570
E	273+00 - 301+00	Median	2800	2464
S.R. 60	9+00 - 15+75	Lt. Shld.	675	199
S.R. 60	9+00 - 17+00	Rt. Shld.	800	236
S.R. 60	23+00 - 26+70	Lt. Shld.	370	109
S.R. 60	27+00 - 37+77	Lt. Shld.	1088	321
S.R. 60	24+25 - 37+88	Rt. Shld.	1363	402
Ramp A	5+98 - 14+35	Lt. Shld.	837	247
Ramp A	1+60 - 13+30	Rt. Shld.	1190	351
Ramp B	0+00 - 3+00	Rt. Shld.	360	106
Ramp B	7+20 Ramp B - 33' Lt. of Line E	Rt. Shld.	1010	298
Ramp B	13+55 - 18+70	Lt. Shld.	615	182
Ramp C	9+60 - 16+90	Lt. Shld.	830	245
Ramp C	2+20 - 11+80	Rt. Shld.	960	283
Ramp D	11+50 - 8+00	Lt. Shld.	650	192
Ramp D	0+15 Ramp D - 38' Lt. of Line E	Rt. Shld.	1525	450
	P.S.3 W Interchange			
E	367+20 - 369+00	Rt. Shld.	200	59
P	16+80 - 20+00	Lt. Shld.	320	94
E-P	367+00 - 7+00	Median	1130	994
P	9+20 - 20+00	Median	1080	950
31 W	101+00 - 134+50	Lt. Shld.	350	103
31 W	101+00 - 134+50	Rt. Shld.	350	103
31 W	191+15 - 214+70	Lt. Shld.	755	223
31 W	191+20 - 214+10	Median	990	584
31 W	201+30 - 241+00	Lt. Shld.	370	103
31 W	161+50 - 291+85	Rt. Shld.	1335	390
31 W	251+25 - 261+30	Lt. Shld.	195	58
31 W	241+75 - 331+30	Median	855	504

SODDING

LINE	STATION TO STATION	TYPE	LIN. FT.	SQ. YDS.
31 N	27+80 - 35+50	Lt. Shld.	770	227
31 N	31+55 - 33+50	Rt. Shld.	195	58
31 N	33+70 - 41+60	Median	790	468
31 N	37+50 - 43+30	Lt. Shld.	580	171
31 N	33+85 - 36+60	Rt. Shld.	275	81
31 N	37+70 - 41+20	Rt. Shld.	350	103
31 N	44+00 - 44+50	Lt. Shld.	50	15
31 N	42+80 - 44+50	Rt. Shld.	170	50
Ramp A	0+00 - 11+00	Rt. Shld.	1100	325
Ramp A	2+40 - 8+20	Lt. Shld.	580	171
Rt. Leg Ramp C	1+80 - 15+80	Rt. Shld.	1400	413
Rt. Leg Ramp B	11+50 - 13+00	Lt. Shld.	150	44
Lt. Leg Ramp B	2+30 - 13+30	Lt. Shld.	100	325
Lt. Leg Ramp B	11+50 - 13+30	Rt. Shld.	180	53
Ramp D	0+00 - 12+90	Rt. Shld.	1290	381
Ramp D	2+50 - 10+10	Lt. Shld.	760	224
Rt. Leg Ramp E	1+00 - 19+50	Rt. Shld.	1890	558
Rt. Leg Ramp F	15+10 - 17+60	Lt. Shld.	260	77
Ramp F	3+40 - 17+00	Lt. Shld.	1360	401
Ramp F	15+10 - 17+00	Rt. Shld.	190	56

RIGHT-OF-WAY FENCE CHAIN LINK TYPE

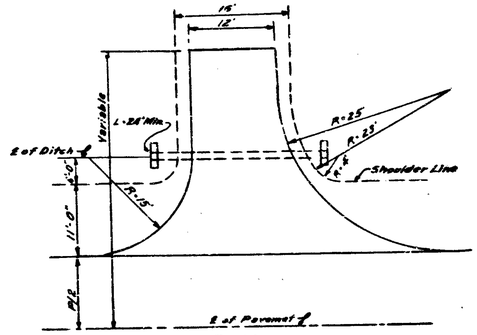
LINE	STATION TO STATION	LEFT	RIGHT	L.F. REQ'D
E	169+899 - 219+50		V	5021
E	169+899 - 220+75	V		5160
E	223+15 - 273+00		V	5085
E	224+40 - 273+00	V		4923
E	301+00 - 367+00		V	6600
E	301+00 - 367+00	V		6600
P	20+00 - 90+65		V	7065
P	20+00 - 90+65	V		7065
P	94+10 - 131+20		V	3710
P	94+10 - 131+20	V		3710
P-Q	135+80 - 181+00		V	4520
P-Q	135+80 - 181+00	V		4520
	P.R. 60 Interchange			
E	273+00 - 283+00	V		1000
E	283+50 - 14+25 P.R. 60	V		845
E	13+70 P.R.60 - 12+00 P.R. 60	V		170
E	12+00 P.R. 60 - 301+00 E	V		1402
E	273+00 - 251+50 P.R. 60		V	1925
E	251+50 P.R. 60 - 301+00 E		V	1845
E	367+00 - 10+75 P.R. 31 W	V		1451
E	367+00 - 4+28 P.R. 31 W		V	2109
P	43+35 P.R. 31 N - 20+00		V	1640
P	11+30 P.R. 31 N - 20+00	V		2685

MAY 10-1967

FEDERAL ROAD DISTRICT NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	E-03-1(15)	1957	64	546

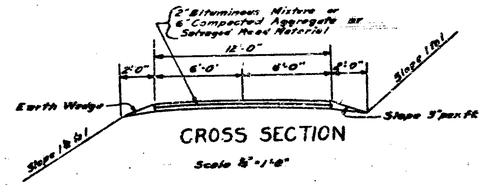
ADDITIONAL QUANTITIES FOR APPROACHES

Location	Description	Class or Type	Excavation Cubic Yards Cut	Excavation Cubic Yards Fill	Surface Length	Surface Width	Surface Radii	Compacted Aggregate Base - Sq Yds. 3"	5"	6"	Compacted Aggregate Tons	Bitum. Shoulder Mix. Sq Yds. 2" 322 Tons	3" 483 Tons	Bitum. Shoulder Mix. Tons	Paint Coat Pavement Sq Yds.	Reinforcing Steel Lbs.	Integral Conc. Curb Type B Lin. Ft.	7" Conc. Curb, Plain Exp. Jt. Lin. Ft.	4" Concrete Center Curb Lin Ft.
Line "E"																			
Rt 276+70	Pvt Drive	V	12	3	20	10	4'			22	73	82		2.5					
Line PR 60																			
Rt 13+07	Pvt Drive	II		126	80	12	15'			107	35.6	53		5.9					
Rt 14+80	Pvt Drive	II		80+	80	12	15'			107	35.6	53		5.9					
Rt 23+00	Pvt Drive	II	10	3	20	12	15'			27	8.3	27		3.0					
Rt 32+30	Public Rd	D	19		38	20	25			98	32.7	58		6.4	40				
Lt 32+30	Public Rd	D	86		90	20	355-700			370	123.4	219		27.6	121				
Lt 34+00	Pvt Drive	V	7	2	30	10'	4'			33	11.0	33		3.7					
Rt 34+20	Pvt Drive	II	3	3	30	12	15'			40	13.4	40		4.4					
Ramp "B"																			
Rt 6+00	Pvt Drive	II		71	40'	12'	15'			53	13.0	53		5.9					
Line E																			
Rt 333+50	Pvt Drive	II		10	20	12'	15'			27	8.3	27		3.0					
Rt 358+00	Pvt Drive	II		18	20	12'	15'			27	8.3	27		3.0					
Line PR 31-W																			
Rt 10+65	Pvt Drive	II	3	14	30	12'	15'			40	13.4	40		4.4					
Lt 10+70	Pvt Drive	II		16	30	12'	15			40	13.4	40		4.4					
Lt 11+00	Pvt Drive	V		13	30	12'	15'			40	13.4	40		4.4					
Lt 13+75	Pvt Drive	V		20	30	12'	15'			40	13.4	40		4.4					
Lt 20+00	Pvt Drive	V	4	9	80	12'	15'			27	8.3	27		3.0					
Line "P"																			
Lt 42+00	Pvt Drive	V	10		30	10'	4'												
Lt 45+00	Pvt Drive	V		28	30	12'	15'			27	8.3	27		3.0					
Rt 74+36	Pvt Drive	V	16		80	12'	15'			27	8.3	27		3.0					
Rt 75+16	Pvt Drive	V		35	30	10'	4'												
Rt 338+80	Pvt Drive	V		156	90	10'	4'												
Line S-A-E																			
Lt 0+00	Pvt Drive	II	6		20	12	25'			27	8.3	27		3.0					
0+20	Pvt Drive	II	5		20	12	15'			27	8.3	27		3.0					
Line PR 50																			
Rt 9+72	Pvt Drive	II		10	30'	12'	15'			40	13.4	40		4.4					



PLAN

Scale 1"-10'-0"

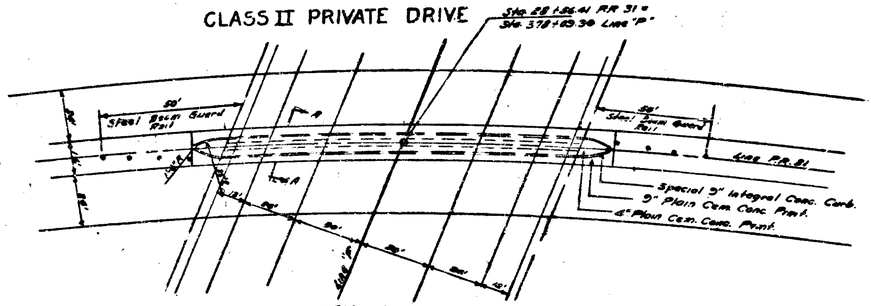


CROSS SECTION

Scale 3/8"-1'-0"

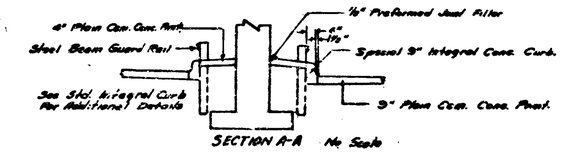
CLASS II PRIVATE DRIVE

Sta 28+26.41 PR 31 = Sta 378+69.30 Line "P"



PLAN

Scale 1"=30'



SECTION A-A No Scale

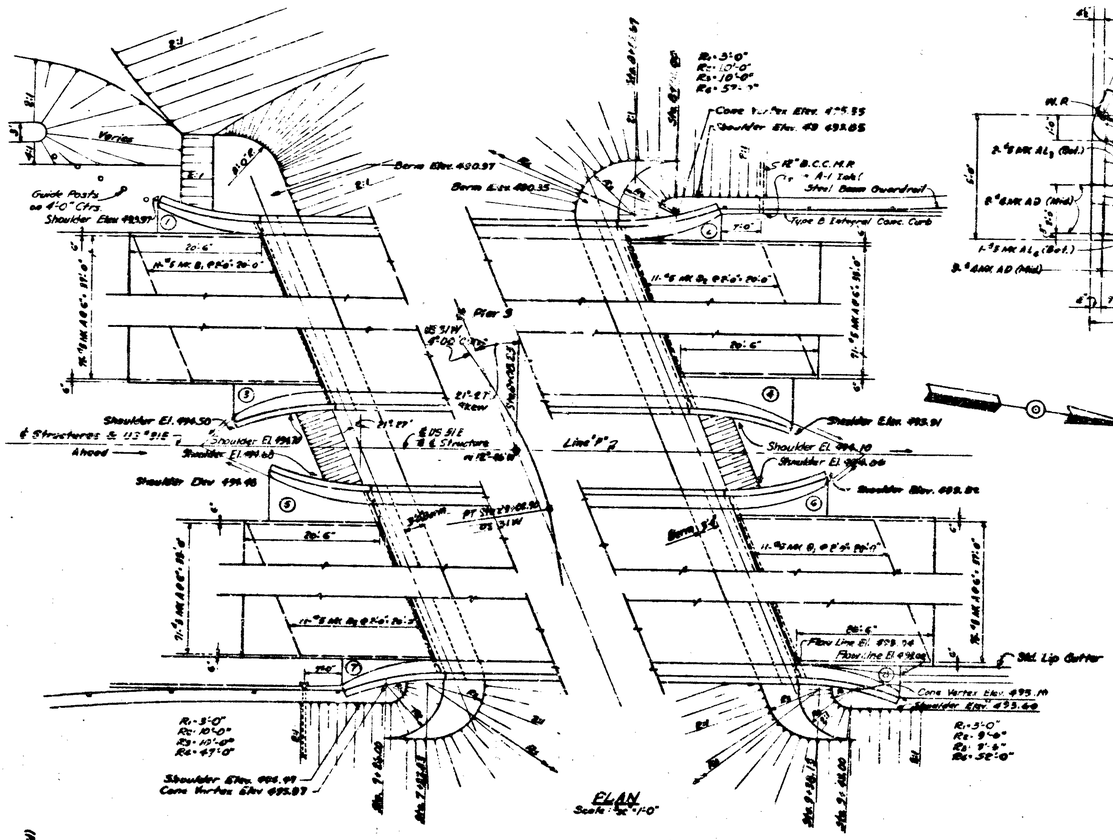
GRADE SEPERATION STRUCTURE AT STA. 8+09.30

See Sheet No. 39

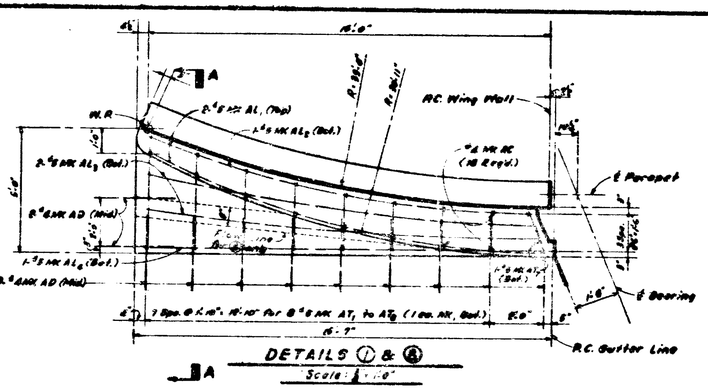
IARD 10-26-67

BRIDGES OVER 20' SPAN

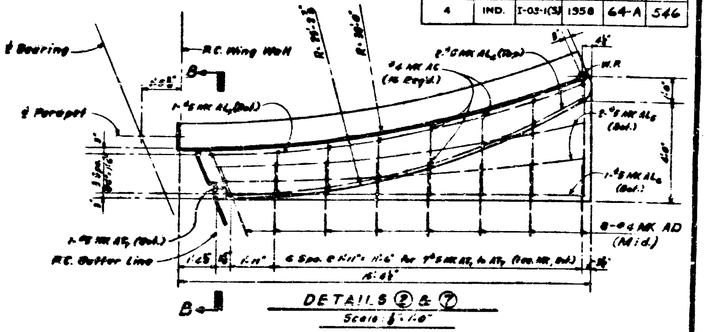
FUL. ROAD SEQ. NO.	STATE	PROJECT NO.	FISCAL YEAR	CONTR. NO.	TOTAL SHEETS
4	IND.	I-03-1(3)	1958	64-A	546



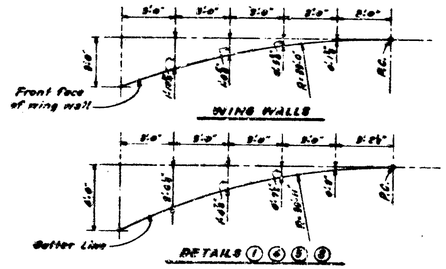
PLAN
Scale: 1/8" = 1'-0"



DETAILS ① & ④
Scale: 1/4" = 1'-0"



DETAILS ② & ⑦
Scale: 1/4" = 1'-0"



OFFSET DIAGRAMS
Scale: 1/4" = 1'-0"

BENDING SCHEDULE

MARK	SIZE	"D"	LENGTH
A	#8	20'-0"	20'-7"
AL1	5	15'-7"	16'-7"
AL2	5	15'-0"	16'-7"
AL3	5	14'-3"	15'-4"
AL4	5	13'-6"	14'-5"
AL5	5	12'-8"	13'-7"
AL6	5	11'-11"	12'-10"
AL7	5	11'-2"	12'-1"
AL8	5	10'-5"	11'-4"
AL9	5	9'-8"	10'-7"
AL10	5	8'-10"	9'-11"
AL11	5	8'-1"	9'-0"
AL12	5	7'-4"	8'-3"
AL13	5	6'-7"	7'-6"
AL14	5	5'-9"	6'-8"

Dimension "D"

MK A and MK AL

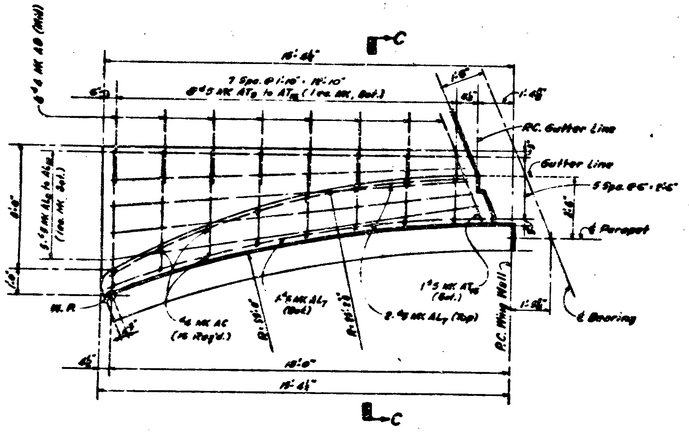
11'-6"
#4 MK AC = 8'-6"

BILL OF MATERIALS

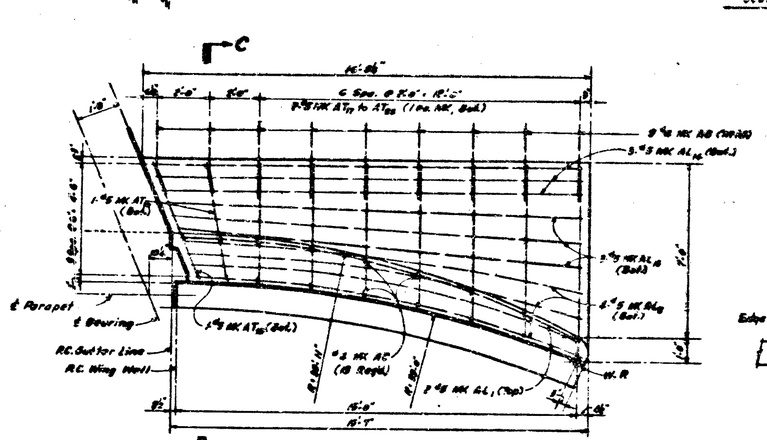
REINFORCING STEEL

MARK	SIZE	NO. BARS	LENGTH	WEIGHT
A	#8	288	20'-7"	
AL1	5	6	16'-7"	
AL2	5	6	15'-7"	
AL3	5	12	15'-4"	
AL4	5	8	14'-5"	
AL5	5	4	13'-7"	
AL6	5	2	12'-10"	
AL7	5	6	12'-1"	
AL8	5	2	11'-4"	
AL9	5	6	10'-7"	
AL10	5	2	9'-11"	
AL11	5	2	9'-0"	
AL12	5	8	8'-3"	
AL13	5	6	7'-6"	
AL14	5	6	6'-8"	
AT1	5	4	6'-6"	
AT2	5	4	5'-10"	
AT3	5	4	5'-1"	
AT4	5	4	4'-3"	
AT5	5	4	3'-6"	
AT6	5	4	2'-9"	
AT7	5	4	1'-9"	
AT8	5	2	1'-1"	
AT9	5	2	0'-6"	
AT10	5	4	6'-3"	
AT11	5	2	5'-5"	
AT12	5	2	4'-8"	
AT13	5	2	3'-8"	
AT14	5	2	2'-11"	
AT15	5	2	2'-2"	
AT16	5	2	1'-6"	
AT17	5	2	0'-9"	
AT18	5	2	6'-10"	
AT19	5	2	5'-8"	
AT20	5	2	4'-6"	
AT21	5	2	3'-6"	
AT22	5	2	2'-6"	
AT23	5	2	1'-6"	
AT24	5	2	0'-6"	
AT25	5	2	6'-3"	
AT26	5	2	5'-3"	
AT27	5	2	4'-3"	
AT28	5	2	3'-3"	
S	5	RE	40'-5"	
S1	5	72	80'-5"	
Total		#5		9343 lbs.
AC	#8	196	8'-6"	
AD	#4	72	8'-0"	
Total		#4		356 lbs.

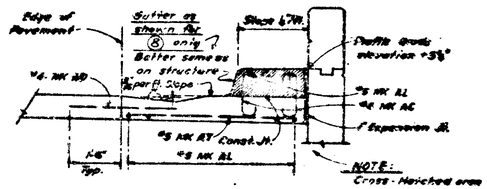
REINFORCING STEEL 9699 lbs.
MISCELLANEOUS
Integral Curb & Walk 5'5 Sq. Yds.
1" Preformed Joint Filler 3'5 Lin. Ft.



DETAILS ③ & ⑥
Scale: 1/4" = 1'-0"

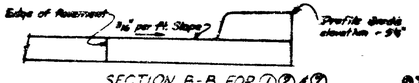


DETAILS ④ & ⑤
Scale: 1/4" = 1'-0"

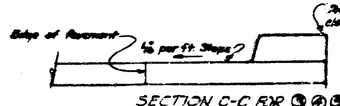


SECTION A-A FOR ⑧ ONLY
(AS SHOWN & NOTED)
Scale: 1" = 1'-0"

NOTE:
Flared Sidewalk, R.C. Bridge Approach, Integral Conc. Curb Walk & ½" Exp. Jt. are to be placed as Road Contract.



SECTION B-B FOR ① ② & ⑦
For Details not shown see Sect. A-A



SECTION C-C FOR ③ ④ ⑤ & ⑥
For Details not shown see Sect. A-A

APPROACH DETAILS

STATE HIGHWAY DEPARTMENT OF INDIANA

SCALE:- AS NOTED

SUBMITTED FOR APPROVAL:- Robert M. Smith

DESIGNED ____ CK'D J.L.L.
DRAWN ____ CK'D J.L.L.
TRACED ____ CK'D ____

ROBERT RICE GILLIS
REGISTERED
No. 7439
STATE OF
INDIANA
REGISTERED
PROFESSIONAL ENGINEER

ESTIMATE OF QUANTITIES

Rev. 5-20-58
Class 1 Pipe &
Conc. Class "D"

Rev. 5-23-58
Structure Pipe Size.

Rev. 5-22-58
QUANTITIES.

Rev. 7-1-58
Quantities.
Rev. 9-4-58
Quantities.

Rev. 8-14-59
Quantities.

Rev. 11-3-59
Quantities

FEDERAL ROAD DIVISION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-03-1(5)	1957	65	546

GRADING

ITEM	UNIT	QUANTITY
COMMON EXCAVATION	CYS	
SOLID ROCK EXCAVATION	CYS	
LINCLASS EXCAVATION	CY	
SPECIAL BORROW	CY	
OVERHAUL 375,484 ~~375,484~~ Z		
ADDED HAUL		
PEAT EXCAVATION	CYS	
4"	LFT	
4'-8'	LFT	
8'-12'	LFT	
12'-16'	LFT	
16'-0"	LFT	
24"	LFT	
MINIMUM	HRS	
MACHINE AVAILABILITY	HRS	
[illegible]	LBS	
[illegible] TIES	LFT	
[illegible] TIES	LFT	
[illegible] HOLES	LFT	
[illegible]	LFT	
[illegible] TIES	LFT	3,887
[illegible] SPECIAL BORROW	CYS	~~15,000~~
PAVEMENT REMOVAL	SYS	3240
[illegible] PAVEMENT	SYS	
SURFACE REMOVAL	SYS	
BREAKING PAVEMENT	SYS	
CURB REMOVAL	LFT	~~476~~ 880
CENTER CURB REMOVAL	LFT	
CONCRETE & GUTTER REMOVAL	LFT	
[illegible] REMOVAL	LFT	
CURB REMOVAL	LFT	
[illegible] REMOVAL	SYS	
[illegible] REMOVAL	SYS	
GUARD RAIL SALVAGE	LFT	
RETAINING WALL REMOVAL	LFT	
RETAINING WALL REMOVAL	CYS	
PAVED SIDE DITCH REMOVAL	LFT	
SALVAGED ROAD MATERIAL	CYS	

PAVEMENT

ITEM	UNIT	QUANTITY
SUBBASE TYPE I or II	CYS	~~44,000~~ 41,278
SALVAGED ROAD MATERIAL FOR SUBBASE	CYS	
		252,045
9" PLAIN CONCRETE	SYS	117
REINFORCED CONCRETE	SYS	~~38,000~~ 37,883
H.E.S. CONCRETE	SYS	
H.E.S. REINFORCED CONCRETE	SYS	
PLAIN CEMENT CONCRETE FOR CROSSOVERS	SYS	
REINFORCING MIXTURE FOR CROSSOVERS	TONS	
[illegible] AGGREGATE	TONS	
[illegible] AGGREGATE	TONS	
[illegible]	TONS	
[illegible]	SYS	
COMMERCIAL DRIVE PAVEMENT	SYS	
REINFORCING STEEL	LBS	33,097
CONTRACTION JOINTS, TYPE D(1)	LFT	56,617
½" PREFORMED JOINT FILLER	LFT	~~455~~ 1098
½" PREFORMED JOINT FILLER	LFT	305
1" PREFORMED EXPANSION JOINT WITH LOAD TRANSFER	LFT	471
1" EXPANSION JOINT	LFT	96
CONCRETE BASE	SYS	
H.E.S. CONCRETE BASE	SYS	
CONCRETE PATCHES	SYS	
CONCRETE PATCHES CLASS I	SYS	
CONCRETE PATCHES CLASS II	SYS	
CONCRETE PATCHES CLASS IX	SYS	
CONCRETE WIDENING	SYS	
FILLING CRACKS AND JOINTS	TONS	
BITUMINOUS MATERIAL FOR UNDERSEAL	TONS	
DRILLING HOLES	LINFT	
BITUMINOUS SHOULDER MIXTURE FOR APPROACHES	TONS	1639
AGGREGATE FOR COMPACTED AGGREGATE BASE	TONS	3,291
WATER FOR COMPACTED AGGREGATE BASE	M GALS	34
AGGREGATE FOR SHOULDER DRAINS	TONS	
BITUMINOUS MATERIAL FOR PRIME	TONS	20.3
BITUMINOUS MATERIAL FOR SEAL	TONS	19
COVERING AGGREGATE	CYS	1005
HOT ASPHALTIC CONCRETE BINDER (1)	TONS	
HOT ASPHALTIC CONCRETE SURFACE TYPE "B"	TONS	
BITUMINOUS COATED BLENDED AGGREGATE BINDER (1)	TONS	
BITUMINOUS BLENDED AGGREGATE SURFACE	TONS	
BITUMINOUS COATED AGGREGATE BINDER (1)	TONS	
BITUMINOUS COATED AGGREGATE SURFACE	TONS	

ITEM	UNIT	QUANTITY
BITUM. MIXTURE FOR APPROACHES	TONS	
SALVAGED ROAD MATERIAL FOR APPROACHES	CYS	1148
BITUMINOUS BINDER	CYS	16,094
BITUMINOUS MATERIAL FOR SEAL	GALS	
COVERING AGGREGATE	TONS	

MISCELLANEOUS

ITEM	UNIT	QUANTITY
6" HAND LAID RIP RAP	SYS	
[illegible] RIP RAP	SYS	100
[illegible] RIP RAP	SYS	
[illegible] RIP RAP	SYS	
[illegible] RIP RAP	SYS	
[illegible] RIP RAP	SYS	
PRECAST CONCRETE RIP RAP	SYS	
STANDARD LIP GUTTER	LFT	2289
PAVEMENT SIDE DITCH TYPE "A"	LFT	
[illegible] "B"	LFT	
[illegible] "C"	LFT	
[illegible] "D"	LFT	
[illegible] SPL. 3'	LFT	
[illegible] CURB TYPE "B"	LFT	1241 ~~1241~~
BITUMINOUS CURB	LFT	
CONCRETE FILLER	LFT	
[illegible] CURB TYPE "B"	LFT	~~300~~ 300
[illegible] CURB AND GUTTER	LFT	
[illegible]	LFT	
[illegible] CONC. GUTTER	LFT	
[illegible] COMB. CONC. CURB AND GUTTER	LFT	
[illegible]	LFT	
[illegible] COMB. CONC. CURB & GUTTER	LFT	
CONCRETE CENTER CURB	LFT	
CONCRETE CENTER CURB	SYS	
FLEXIBLE STEEL PLATE GUARD RAIL	LFT	
[illegible]	LFT	7,590
[illegible] RAIL	LFT	
[illegible] RAIL	LFT	
[illegible] GUARD RAIL	LFT	
[illegible]	LFT	
RESETTING FLEXIBLE STEEL PLATE GUARD RAIL	LFT	
GUARD RAIL	LFT	18,256
GUARD RAIL POSTS	EA	
[illegible] GUARD RAIL	LFT	
[illegible] RAIL	LFT	
[illegible] RAIL	LFT	
[illegible]	LFT	
GUIDE POSTS, TYPE "A"	EA	54
GUIDE POSTS, TYPE "B"	EA	
BARRICADES, TYPE "A"	EA	5
BARRICADES, TYPE "B"	EA	6
TYPICAL SIGN STANDARDS	EA	28
[illegible] SIGN TYPE "A"	EA	
[illegible] SIGN	EA	
ADVISORY SPEED WARNING SIGN	EA	
CONCRETE HEADER	LFT	
REINFORCED CONCRETE HEADER	LFT	
CEMENT CONCRETE SIDEWALK	SYS	
RECONSTRUCTED CONCRETE SIDEWALK	SYS	
CROSSWALK	SYS	
RIGHT OF WAY MARKERS	EA	6
[illegible] MARKERS	EA	
[illegible]	EA	
[illegible]	EA	
[illegible] ADJUSTED TO GRADE	EA	
[illegible]	EA	
MONUMENTS RE-ESTABLISHED	EA	
BENCH MARK POSTS	EA	
RE-ESTABLISH BENCH MARK POSTS	EA	
SEEDING	SYS	17,990
FURNISHING AND PLACING:		
AGRICULTURAL LIMESTONE	TONS	522
FERTILIZER	LBS	13,000
FURNISHING AND APPLYING MULCH, NO MATERIAL	TONS	30
[illegible] SODDING	SYS	
[illegible] SEEDING	SYS	
TOP SOIL	CYS	
[illegible]	LFT	
MAINTAINING TRAFFIC ETC	L.S.	

MISCELLANEOUS

ITEM	UNIT	QUANTITY
Class "E" Concrete for INTEGRAL CURB WALL	CYS	6.6

STRUCTURES

PIPE - LINEAL FEET

ITEM	4" Drain Pipe	6"	8"	10"	12"	15"	18"	24"	30"	36"	42"	78"	24"x18"	60"x38"	53"x41"	98"x59"	83"x57"	68"x44"	34"x22"
CLASS I					~~2106~~ 2078	736 ~~778~~		136	226										~~1505~~ 1395
CLASS II						~~1,994~~ 1,994				~~560~~ 560	~~550~~ 550								
CLASS III																			
CLASS IV																			
REINFORCED CONCRETE																			
CLAY																			
PLASTIC																			
CORRUGATED METAL																			
BITUMINOUS COATED CORRUGATED METAL					(584)		682												
PVC																			
SEWER			500	400															
BITUMINOUS COATED CORRUGATED METAL																			
BITUMINOUS COATED STRUCTURAL PLATE PIPE ARCH	120												336	240		532	274	524	360	26
DRAIN TILE		600	400	400															

SUBSURFACE DRAINAGE

PIPE - LINEAL FEET		AGG-CU.YDS
6" CLASS VII	~~4000~~ 3,924	2,993

CASTINGS ADJUSTED TO GRADE

EACH

FOR STRUCTURES

ITEM	UNIT	QUANTITY
CONCRETE CLASS "D"	CYS	~~800~~ 899.5
REINFORCING STEEL	LBS	~~51,050~~

AUTO. DRAINAGE GATES

SIZE	HEAD	EACH

CATCH BASINS

TYPE	EACH
B-3	1

PIPE CATCH BASINS

SIZE	EACH
12"	
15"	
18"	
24"	

INLETS

TYPE	EACH
A-3	15
B-4	1
D-6	3
E-7	67
F-1	5

MANHOLES

TYPE	EACH
A-4	
C-6	

RECONSTRUCTED

TYPE	UNIT FT.
CATCH BASIN	
INLET	
R.C. SPRING BOX	

MAY 1957

PROJ.	LOC.	SHEET	

STRUCTURE DATA

FEDERAL ROAD DIVISION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IMO.	I-03-1(5)	1957	66	546

LOCATION	DESCRIPTION SIZE	DESCRIPTION	SKEW	LENGTH "L"	HEIGHT "H"	WINGS "W"	FLOW LINE UP STREAM ELEV.	FLOW LINE DOWN STREAM ELEV.	CONCRETE CLASS "D" CU.YDS.	SPECIAL BORROW GRADE "B" CU.YDS.	REINFORCING STEEL LBS.	CONNECT TO STRUCTURE NUMBER	REMARKS	PLANS ON SHEET NO.
Line 'E'														
222+95		To be constructed under separate contract												
288+00		To be constructed under separate contract												
Line 'P'														
8+09.3		To be constructed under separate contract												
69+10		To be constructed under separate contract												
92+40		To be constructed under separate contract												
133+50		To be constructed under separate contract												
Line 'E'														
170+03	6"	Sewer Pipe		130'									Connect to Field Tile in place	8
170+91	6"	Sewer Pipe		280									Connect to Field Tile in place	8
171+00	15"	Class I Pipe		38'			461.8	461.6	0.69				Under Frontage Road Left	8
171+81	6"	Sewer Pipe		276'									Connect to Field Tile in place	8
172+70	6"	Sewer Pipe		270'									Connect to Field Tile in place	8
173+60	6"	Sewer Pipe		264'									Connect to Field Tile in place	8
174+50	6"	Sewer Pipe		264									Connect to Field Tile in place	8
175+39	6"	Sewer Pipe		272'									Connect to Field Tile in place	8
176+33	18"	Class I Pipe	60°	300'			462.3	462.4	0.80	18				8
178+00	12"	Std. Inlet Type E-7 Class I Pipe		74'			467.5	462.2	0.29	3			Hdw'l Req'd on Outlet only	8
178+18	18"	Class I Pipe	60°	80'			462.6	462.2	0.67	8				8
184+00	12"	Std. Inlet Type E-7 Class I Pipe		78'			463.4	461.9	0.29	3			Hdw'l Req'd on Outlet only	9
190+00	12"	Std. Inlet Type E-7 Class I Pipe		80'			462.5	461.4	0.29	3			Hdw'l Req'd on Outlet only	9
198+00	12"	Std. Inlet Type E-7 Class I Pipe		84'			462.4	460.4	0.29	3			Hdw'l Req'd on Outlet only	9
206+00	12"	Std. Inlet Type E-7 Class I Pipe		80'			461.5	459.8	0.29	3			Hdw'l Req'd on Outlet only	9
212+00	12"	Std. Inlet Type E-7 Class I Pipe		80'			459.0	458.6	0.29	3			Hdw'l Req'd on Outlet only	10
214+40	30"	Class I Pipe & one 30"x12" Tee	45°	266'			454.0	460.6	5.78	22		29		10
215+00	12"	Std. Inlet Type E-7 Class I Pipe	45°	40'			459.4	445.6		3		28		10
229+00	12"	Std. Inlet Type E-7 BCCM Pipe & 2-22½° Bends		109'			461.92	449.7	0.64				Hdw'l Req'd on Outlet only	10
235+00	18"	Class I Pipe & one 18"x12" Tee	45°	226'			463.2	462.6	2.29	16		32		10
235+15	12"	Std. Inlet Type E-7 Class I Pipe	46°	12'			465.5	463.2	0.29			31		10
241+00	12"	Std. Inlet Type E-7 Class I Pipe		76'			464.32	462.6	0.64	3			Hdw'l Req'd on Outlet only	11
246+00	12"	Std. Inlet Type E-7 Class I Pipe		74'			464.8	464.6	0.64	3			Hdw'l Req'd on Outlet only	11
257+00	12"	Std. Inlet Type E-7 Class I Pipe		74'			464.5	464.2	0.29	3			Hdw'l Req'd on Outlet only	11
263+00	12"	Std. Inlet Type E-7 BCCM Pipe & 2-22½° Bends		86'			455.9	454.4	0.64				Hdw'l Req'd on Outlet only	11
263+82	6"	Sewer Pipe		240'									Connect to 4" Sewer in place	11
264+30	78"	Class I Pipe, one 78"x 18" Tee, one 78"x18" Wye, one 78"x12" Tee	45°	346'			452.0	451.0	4.71	40		39,40,41		11
265+00	12"	Std. Inlet Type E-7 Class I Pipe	45°	32'			459.2	455.0		3		38		11

STRUCTURE NUMBER	LOCATION	DESCRIPTION SIZE	DESCRIPTION	SKEW	LENGTH "L"	HEIGHT "H"	WINGS "W"	FLOW LINE UP STREAM ELEV.	FLOW LINE DOWN STREAM ELEV.	CONCRETE CLASS "D" CU.YDS.	SPECIAL BORROW GRADE "B" CU.YDS.	REINFORCING STEEL LBS.	CONNECT TO STRUCTURE NUMBER	REMARKS	PLANS ON SHEET NO.
39	265+06	18"	Class I Pipe		20'			455.0	454.9	1.145			38	Hdw'l Req'd on Outlet only	11
40	265+52	18"	Class I Pipe	45°	20'			455.2	455.0	1.145			38	Hdw'l Req'd on Outlet only	11
41	268+00		Std. Inlet Type E-7												
		12"	Class I Pipe		74'			462.3	462.1	0.29	3			Hdw'l Req'd on Outlet only	11
42	274+00		Std. Inlet Type E-7												
		12"	Class I Pipe		84'			467.0	466.81	0.29	4			Hdw'l Req'd on Outlet only	25
43	279+70		Std Catch Basin Type E-5												
		12"	Class I Pipe	45°	94'			471.6	470.8	0.29	6		44	Hdw'l Req'd on Outlet only	25
44	280+00		Std. Inlet Type E-7												
		12"	Class I Pipe	20°	78'			471.5	471.3				43		25
45	280+61		Std. Inlet Type D-6												
		12"	Class I Pipe	15°	34'			473.8	473.6	0.29	2			Hdw'l Req'd on Outlet only	25
46	284+00		Std Inlet Type D-6												
		12"	Class I Pipe		118'			475.2	475.0	0.29	3			Hdw'l Req'd on Outlet only	25
47	288+30		Std. Inlet Type E-7												
		12"	BCCM Pipe	45°	30'			476.0	475.8				48		25
48	288+65	50"x31"	BCCM Pipe Arch, one 50"x31"x12" Tee, one 50"x31"x18" Tee	45°	240'			476.3	475.3	5.63	39		47,49		25
49	289+00		Std. Inlet Type E-7												
		18"	BCCM Pipe	45°	160'			477.0	476.0		4		48		25
50	294+60		Std. Inlet Type E-7												
		12"	Class I Pipe		74'			482.8	482.6	0.29	3			Hdw'l Req'd on Outlet only	25
51	300+00		Std. Inlet Type E-7												
		12"	Class I Pipe		92'			487.8	487.6	0.29	6			Hdw'l Req'd on Outlet only	25
	Ramp 'B'														
52	6+35		Std. Inlet Type E-7												
		12"	Class I Pipe		120'			478.0	475.0	0.29				Hdw'l Req'd on Outlet only	25
53	7+00		Std. Inlet Type D-6												
		12"	BCCM Pipe & 2-22½° Bends		56'			483.9	474.0	0.64				Hdw'l Req'd on Outlet only	25
54	2+50	58"x	36" BCCM Pipe Arch		120'			475.0	474.0	8.12	10				25
55	2+30		Std Inlet Type D-6												
		12"	BCCM Pipe, 2-22½° Bends		70'			493.0	474.0	0.64				Hdw'l Req'd on Outlet only	25
56	1+55		Std. Inlet Type A-3												
		12"	BCCM Pipe, 2-22½° Bends	30°	76'			476.0	475.8	0.64				Hdw'l Req'd on Outlet only	25
	P.R.60														
57	18+42 RK		Std. Inlet Type A-3												
		12"	BCCM Pipe, 2-22½° Bends	15°	80'			486.6	475.8	0.68			56	Hdw'l Req'd on Outlet only	25
58	18+24		Std. Inlet Type A-3												
		12"	Class I Pipe	45°	52'			498.9	498.6				55		25
	Ramp 'C'														
59	12+88		Std. Inlet Type A-3												
		12"	BCCM Pipe, 2-22½° Bends	15°	58'			496.0	490.0	0.64				Hdw'l Req'd on Outlet only	25
60	11+80		Std. Inlet Type A-3												
		12"	BCCM Pipe, One 30° Bend		22'			495.0	491.5				59		25
61	11+70	18"	BCCM Pipe, one 18"x12" Tee		104'			490.9	490.6	2.29	8		58		25
	P.R.60														
62	15+10 Lt.		Std. Inlet Type A-3												
		12"	BCCM Pipe, 2-22½° Bends		48'			495.0	491.0	0.64				Hdw'l Req'd on Outlet only	25
63	15+60 RK		Std. Inlet Type D-6												
		12"	BCCM Pipe, 2-22½° Bends		52'			494.0	480.0	0.64				Hdw'l Req'd on Outlet only	25
	Ramp 'A'														
64	14+32 Lt.		Std. Inlet Type A-3												
		12"	BCCM Pipe, 2-22½° Bends		120'			497.5	478.3	0.29				Hdw'l Req'd on Outlet only	25
	P.R.60														
65	21+70		Std. Inlet Type A-3												
		12"	Class I Pipe	45°	52'			498.7	498.5				63		25
66	21+55		Std. Inlet Type A-3												
		12"	BCCM Pipe, 2-22½° Bends	15°	68'			498.5	491.0	0.64			62	Hdw'l Req'd on Outlet only	25
	Ramp 'D'														
67	1+46		Std. Inlet Type A-3												
		12"	BCCM Pipe 2-22½° Bends	15°	60'			499.0	482.0	0.64				Hdw'l Req'd on Outlet only	25
68	6+00	36"	Class I Pipe	45°	120'			483.0	481.0	8.12	15				26
	Line 'E'														
69	306+00		Std. Inlet Type E-7												
		12"	Class I Pipe		74'			492.6	492.4	0.29	3			Hdw'l Req'd on Outlet only	13
70	312+70		Std. Inlet Type E-7												
		12"	Class I Pipe		74'			498.0	497.8	0.29	3			Hdw'l Req'd on Outlet only	13
71	327+00		Std. Inlet Type F-7												
		18"	Class I Pipe	45°	216'			493.6	489.8	2.29	15				13

STRUCTURE DATA

Rev. 7-1-58 Str. No. 131A Added.

Rev. 5-20-58 Strs. No. 133, 135 & 137 Eliminated.

FEDERAL ROAD DIVISION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-03-1(5)	1957	67	346

LOCATION	DESCRIPTION: SIZE	DESCRIPTION	SKEW	LENGTH "L"	HEIGHT "H"	WINGS "W"	FLOW LINE: UP STREAM ELEV.	FLOW LINE: DOWN STREAM ELEV	CONCRETE CLASS "D" CU.YDS.	SPECIAL BORROW GRADE "B" CU.YDS.	REINFORCING STEEL LBS.	CONNECT STRUCTURE NUMBER	REMARKS	PLANS ON SHEET NO.
Line 'E'														
333+00		Std. Inlet Type E-7												
	12"	Class I Pipe		72'			481.4	481.2	0.29	3			Hdw'l Req'd on Outlet only	14
336+35	36"	Class I Pipe	45°	212'			470.0	468.6	8.12	16				14
337+58	42"	Class I Pipe	60°	108'			468.4	467.0	2.50				Under Frontage Road Right	14
339+00		Std. Inlet Type E-7												
	12"	Class I Pipe		90'			468.6	468.0	0.29	2			Hdw'l Req'd on Outlet only	14
343+00		Std. Inlet Type E-7												
	12"	Class I Pipe		76'			463.5	462.8	0.29	2			Hdw'l Req'd on Outlet only	14
346+00		Std. Inlet Type E-7												
	12"	Class I Pipe		80'			462.4	459.2	0.64	1			Hdw'l Req'd on Outlet only	14
347+30	WT-79	Bitum. Coated Structural Plate Pipe Arch, 16 gage, Section modulus 0.0732 in²	30°	143'			457.8	457.5	12.64	30			Under Frontage Road Right Construct in two Parallel Lines Two Special Pipe Anchors Req'd	14
348+00	WT-78	Bitum. Coated Structural Plat: Pipe Arch, 16 gage, Section modulus 0.0732 in²	30°	108'			458.4	458.7	12.64	262			Construct in two Parallel Lines Two Special Pipe Anchors Req'd	14
350+00		Std. Inlet Type E-7												
	12"	Class I pipe		76'			468.0	466.7	0.64	3			Hdw'l Req'd on Outlet only	14
Line 'S-4-E'														
1+38	18"	Class I Pipe		40'			478.5	477.6	0.80					22
4+27	18"	Class I Pipe	45°	66'			473.9	473.0	0.80					22
Line 'E'														
356+00		Std. Inlet Type E-7												
	12"	Class I Pipe		78'			490.3	489.1	0.95	3			Hdw'l Req'd on Outlet only	14
358+06	12"	Class I Pipe		24'			490.9	490.7	0.58				Under Private Drive Rt.	14
362+00		Std. Inlet Type E-7												
	12"	Class I Pipe		74'			486.2	486.0	0.35	3			Hdw'l Req'd on Outlet only	15
365+40	36"	Class I Pipe		194'			475.0	473.9	8.12	18				15
367+80 Lt.		Std. Inlet Type D-6												
	12"	Class I Pipe		56'			488.0	487.6		3		88		39
368+00		Std. Inlet Type E-7												
	12"	Class I Pipe		102'			487.4	480.0	0.64	3		87	Hdw'l Req'd on Outlet only	39
Line 'P'														39
2+00		Std. Inlet Type E-7												
	12"	Class I Pipe		120'			492.6	489.0	0.29	3		88, 89	Hdw'l Req'd on Outlet only	39
10+25	Arch	Bitum. Coated Structural Plate Pipe Arch, 3 gage, Section modulus 0.1309 in²		274'			466.1	465.5	5.66	136			Two Special Pipe Anchors Req'd	39
1+00 Rt.		Std. Inlet Type C-6												
	12"	Class I Pipe		56'			488.6	488.0	0.64	1			Hdw'l Req'd on Outlet only	39
3+00 Rt.		Std. Inlet Type D-6												
	12"	Class I Pipe		64'			487.9	475.3	0.64	1			Hdw'l Req'd on Outlet only	39
6+00		Std. Inlet Type E-7												
	12"	Class I Pipe		100'			486.8	477.5	0.29	3			Hdw'l Req'd on Outlet only	39
5+80 Rt.		Std. Inlet Type D-6												
	12"	Class I Pipe		40'			487.1	485.0	0.29	2			Hdw'l Req'd on Outlet only.	39
16+00		Std. Inlet Type E-7												
	12"	Class I Pipe		74'			486.4	483.1	0.29	3			Hdw'l Req'd on Outlet only	39
18+00		Std. Inlet Type E-7												
	12"	Class I Pipe		98'			487.0	486.5	0.29	4			Hdw'l Req'd on Outlet only	39
R.31-W														
0+65 Rt.	12"	Class I Pipe		24'			493.3	493.0	0.58				Under Private Drive Rt.	39
2+70 Lt.	12"	Class I Pipe		24'			499.7	499.5	0.58				Under Private Drive Lt.	39
0+00 Lt.	12"	Class I Pipe		24'			499.3	499.1	0.58				Under Private Drive Lt.	39
0+00 Lt.	12"	Class I Pipe		24'			496.2	496.0	0.58				Under Private Drive Lt. of Frontage Road	39
5+00		Std. Inlet Type E-7												
	12"	Class I Pipe		58'			494.7	494.0	0.29	3			Hdw'l Req'd on Outlet only	39
0+00		Std. Inlet Type E-7												
	12"	Class I Pipe		54'			487.6	487.0	0.29	4			Hdw'l Req'd on Outlet only	39
0+00 Lt.	12"	Class I Pipe		26'			498.2	498.0	0.58				Left of Frontage Road	9

STRUCTURE NUMBER	LOCATION	DESCRIPTION: SIZE	DESCRIPTION	SKEW	LENGTH "L"	HEIGHT "H"	WINGS "W"	FLOW LINE: UP STREAM ELEV.	FLOW LINE: DOWN STREAM ELEV	CONCRETE CLASS "D" CU.YDS.	SPECIAL BORROW GRADE "B" CU.YDS.	REINFORCING STEEL LBS.	CONNECT STRUCTURE NUMBER	REMARKS	PLANS ON SHEET NO.
	PR.31-W														
105	24+00		Std. Inlet Type F-7												
		12"	Class I Pipe		74'			478.1	478.2	0.29	4			Hdw'l Req'd on Outlet only	39
106	Line 'P' 7+40	18"	Class I Pipe & Two 11-1/8" x 12" Tee	20°	240'			470.5	468.0	1.97			107, 108	"L" Hdw'l Req'd at Joint & Outlet Not Included in Road Contract	39
107	PR.31-W 27+55		Std. Inlet Type E-7												
		12"	Class I Pipe	18°	50'			472.6	471.0		3		106		39
108	28+70		Std. Inlet Type D-6												
		12"	Class I Pipe	45°	12'			471.9	470.0		3		106		39
109	29+60		Std. Inlet Type E-7												
		12"	Class I Pipe		58'			468.1	467.5	0.64	3		108	Hdw'l Req'd on Outlet only	39
			One 18-12 Tee												
110	31+00	24"	Class I Pipe		136'			466.0	465.5	3.75	12				39
111	33+32	WT-87	Bituminous Coated Structural Plat: Pipe Arch, 6 gage, Section modulus 0.2908 in² & Two 137 x 87 x 12" Tees	45°	304'			465.1	464.6	5.66	224		116, 117	Two Special Pipe Anchors Req'd	39
112	36+00		Std. Inlet Type E-7												
		12"	Class I Pipe		66'			476.0	466.5	0.64	3			Hdw'l Req'd on Outlet only	39
113	39+00		Std. Inlet Type E-7												
		12"	Class I Pipe		50'			492.2	491.8	0.29	3			Hdw'l Req'd on Outlet only	39
114	43+69	12"	Class I Pipe		40'			494.2	494.0	0.58	3			Under County Road Lt.	39
115	Ramp A 1+50	18"	Class I Pipe	30°	82'			471.8	468.0	2.29	3				39
116	PR.1-W 32+05 Rt.		Std. Inlet Type E-7												
		12"	ACCM Pipe		106'			470.0	468.8				111		39
117	34+45 Rt.		Std. Inlet Type E-7												
	Ramp C	12"	ACCM Pipe		14'			472.8	468.3				111		39
118	6+45	18"	Class I Pipe		83'			480.0	479.5	2.23	2				39
119	10+20		Std. Inlet Type A-3												
	Ramp D	12"	ACCM Pipe & 2-22½° Bends		60'			491.0	475.0	0.64				Hdw'l Req'd on Outlet only	39
120	9+45	18"	Class I Pipe		64'			485.8	484.8	0.86	4				39
	Ramp E														
121	10+00 RT.		Std. Inlet Type E-7												
		18"	Class I Pipe		38'			472.8	472.4	0.29				Discharge under Frontage Road	39
122	11+05	Arch	Bituminous Coated Structural Plate Pipe Arch, 6 gage, Section modulus 0.0888 in³ & one 137" x 87" x 12" Tee	9°	220'			462.9	466.9	5.66	126		125	Two Special Pipe Anchors Req'd	39
	Lt. Leg														
123	14+24	18"	Class I Pipe	23°	120'			478.1	472.0	0.80	2		124	Hdw'l Req'd on Inlet only	39
124	Ramp F 3+25 Lt.		Std. Inlet Type E-4												
		18"	Class I Pipe		146'			471.8	471.5	0.80	2		123	Hdw'l Req'd on Outlet only	39
125	6+40		Std. Inlet Type A-3												
		12"	ACCM Pipe & 2-22½° Bends		18'			473.7	473.0				126		39
126	8+30		Std. Inlet Type A-3												
		12"	Class I Pipe		14'			482.1	472.0				127		39
127	8+40	18"	Class I Pipe one 9"x18" Tee		122'			471.3	470.5	2.29	7		126		39
128	10+40		Std. Inlet Type A-3												
		12"	ACCM Pipe & 2-22½° Bends		34'			486.8	474.0	0.64				Hdw'l Req'd on Outlet only	39
129	12+54		Std. Inlet Type A-3												
	Line 'P'	12"	ACCM Pipe & 2-22½° Bends		66'			490.8	474.0	0.64				Hdw'l Req'd on Outlet only	39
130	22+60		Std. Inlet Type E-7												
		18"	Class I Pipe	45°	168'			494.6	492.0	0.80	8				16
130A	24+00	6"	Sewer Pipe		144'										16
131	34+40		Std. Inlet Type E-7												
		12"	Class I Pipe		20			493.0	492.3				132		16
132	36+61	36"	Class I Pipe		154'			491.9	490.6	3.14	19		131		16
133	42+00		Std. Inlet Type E-7												
		12"	Class I Pipe		76'			493.3	493.7	0.29	3				16
134	42+62	12"	Class I Pipe	15°	176'			496.2	496.8	2.50	22		137		16

Revised 9-4-58

54, 184-A

DIVISION	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND. I-03-1(5)	1957	68	544a

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION	DESCRIPTION SIZE	DESCRIPTION	SKEW	LENGTH "L"	HEIGHT "H"	WINGS "W"	FLOW LINE UP STREAM ELEV.	FLOW LINE DOWN STREAM ELEV.	CONCRETE CLASS "D" CU.YDS.	SPECIAL BORROW GRADE "B" CU.YDS.	REINFORCING STEEL LBS.	CONNECT TO STRUCTURE NUMBER	REMARKS	PLANS ON SHEET NO.
	Line "P"														
138	43+50		Std. Inlet Type E-7												
		12"	Class I Pipe		80'			482.7	476.7				136		16
139	45+00 Lt.	12"	Class I Pipe		28'			497.2	497.1	0.58				Under Private Drive Lt.	17
140	48+00		Std. Inlet Type E-7												
		12"	Class I Pipe		76'			491.0	490.8	0.29	3			Hdw'l Req'd on Outlet only	17
141	52+20	42"	Class I Pipe	45°	246'			486.7	485.3	2.50	22				17
142	54+00		Std. Inlet Type E-7		80'										
		12"	Class I Pipe		28'			492.5	492.0	0.68	3			Hdw'l Req'd on Outlet only	17
143	56+50		Std. Inlet Type E-7		78'			485.3	485.0						
		12"	Class I Pipe		76'			480.8	480.5	0.29	3			Hdw'l Req'd on Outlet only	17
144	74+36 Rt.	12"	Class I Pipe		24'			473.0	472.8	0.58				Under Private Drive on Right	17
145	78+00		Std. Inlet Type E-7		24'			473.0	472.8						
	76+72	12"	Class I Pipe		28'			467.2	467.0		3				18
146	To Number	24"	Class I Pipe	75°	76'			466.8	466.5	2.50				Under Frontage Road Rt.	18
147	81+00		Std. Inlet Type E-7		80'			470.0							
		18"	Class I Pipe		76'			468.0	467.4	0.64	3			Hdw'l Req'd on Outlet only	18
148	84+15	12"	Class I Pipe		24'			468.9	467.0	0.58				Under Private Drive on Right	18
149	87+10		Std. Inlet Type E-7		92'				462.2						
		12"	Class I Pipe		76'			469.0	468.8	0.64	3			Hdw'l Req'd on Outlet only	18
150	87+68	6"	Sewer Pipe		230'									Connect to 4" Field Tile in Place	18
151	93+00		Std. Inlet Type E-7												
		18"	BCCM Pipe		88'			467.2	466.9	0.64	3			Hdw'l Req'd on Outlet only	18
152	120+45	18"x11"	Alum. Coated Corr. Metal Pipe Arch		176'			459.4	458.0	2.39	14				18
153	122+00	6"	Sewer Pipe		184'									Connect to 5" Field Tile in Place	18
154	124+10		Std. Inlet Type E-7												
		12"	BCCM Pipe		86'			466.8	466.2	0.64	3			Hdw'l Req'd on Outlet only	19
155	127+40	6"	Sewer Pipe		260'									Connect to 4" Field Tile in Place	19
156	128+45	24"	Alum. Coated Structural Plate Corr. & Long. Seams Pipe Arch & Conc. Invert	45°	360'			457.8	457.4	6.34	218			Two Special Pipe Anchors Req'd	19
157	132+40		Std. Inlet Type E-7												
		12"	BCCM Pipe		86'			465.8	459.8	0.64	3			Hdw'l Req'd on Outlet only	19
158	132+85	6"	Sewer Pipe		300'									Connect to 4" Field Tile in Place	19
159	137+20		Std. Inlet Type E-7												
		18"	Class I Pipe		78'			461.6	461.4	0.68	3			Hdw'l Req'd on Outlet only	19
160	138+10	6"	Sewer Pipe		190'									Connect to 6" Field Tile in Place	19
161	139+17	29"x18"	Alum. Coated Corr. Metal Pipe Arch & conc. invert		162'			460.2	460.0	2.39	16		162		19
162	139+20		Std. Inlet Type E-7												
		18"	BCCM Pipe		24'			461.6	461.2				161		19
163	139+90		Std. Inlet Type E-7												
		12"	Class I Pipe		76'			464.4	464.0	0.64	3			Hdw'l Req'd on Outlet only	19
164	139+90		Std. Inlet Type E-7												
		12"	Class I Pipe		80'			463.0	462.6	0.64	3			Hdw'l Req'd on Outlet only	19
165	139+15	12"	To be constructed under separate contract												88
	139+00		Std. Inlet Type E-7												
		12"	Class I Pipe		80'			466.8	466.0	0.64	3			Hdw'l Req'd on Outlet only	20
166	144+50	6"	Sewer Pipe		230'									Connect to 4" Field Tile in Place	20
167	145+00		Std. Inlet Type E-7												
		18"	Class I Pipe		80'			462.6	462.6	11.64	3			Hdw'l Req'd on Outlet only	20
168	150+15	18"	BCCM Pipe		212'			463.1	462.7	1.29	8				20
169	150+50 Rt.	18"	BCCM Pipe		30'			459.9	459.8	0.10				Hdw'l Req'd on Inlet only	20
170	151+00		Std. Inlet Type E-7												
		12"	Class I Pipe		80'			468.4	465.2	0.64	3			Hdw'l Req'd on Outlet only	20
171	156+00	18"	BCCM Pipe		176'			461.3	461.0	2.29	8				20
172	Line "Q" 157+00		Std. Inlet Type E-7												
		18"	BCCM Pipe		86'			463.4	463.4	0.64	3			Hdw'l Req'd on Outlet only	20

STRUCTURE NUMBER	LOCATION	DESCRIPTION SIZE	DESCRIPTION	SKEW	LENGTH "L"	HEIGHT "H"	WINGS "W"	FLOW LINE UP STREAM ELEV.	FLOW LINE DOWN STREAM ELEV.	CONCRETE CLASS "D" CU.YDS.	SPECIAL BORROW GRADE "B" CU.YDS.	REINFORCING STEEL LBS.	CONNECT TO STRUCTURE NUMBER	REMARKS	PLANS ON SHEET NO.
	Line "C"														
173	169+80		Std. Inlet Type E-7												
		12"	BCCM Pipe		86'			471.8	469.4	0.64	3			Hdw'l Req'd on Outlet only	23
174	169+20		Std. Inlet Type E-7												
		12"	Class I Pipe		76'			482.4	482.2	0.29	3			Hdw'l Req'd on Outlet only	21
175	174+60		Std. Inlet Type E-7												
	P.R.60	18"	Class I Pipe	15°	170'			492.2	488.0	2.29	8				21
176	14+20 Rt.	12"	Class I Pipe		60'			481.5	481.0	0.58					25
177	29+00 Rt.	12"	Class I Pipe		24'			486.7	486.1	0.58					25
178	32+90 Rt.	12"	Class I Pipe		32'			493.5	493.3	0.58				Under Public Road Approach on Rt.	25
179	32+90 Lt.	15"	Class I Pipe		32'			490.4	483.7	0.58				Under Public Road Approach on Lt.	25
180	34+00 Lt.	12"	Class I Pipe		24'			488.6	486.2	0.58				Under Private Drive on Lt.	25
181	34+20 Rt. Ramp "B"	12"	Class I Pipe		24'			491.8	491.6	0.58				Under Private Drive on Rt.	25
182	Grade "B" Line "E"	12"	Class I Pipe		30'			475.2	474.8	0.59				Under Private Drive Rt. of Frontage Road	25
183	21+10 Line "D"	12"	Class I Pipe		24'			488.0	479.8	0.58				Under Private Drive on Rt.	25
184	To Number	24"	Class I Pipe	75°	76'			476.8	476.5	2.50				Under Frontage Road Rt.	26
185	To 191	18"	Std. R.C. Culvert (Without Fill) R.Slab Top TYPE		132'	14'	30°	465.00	466.00	703.5	2,300	54,950		16'STD R.C. Culvert (Slab Top Without Fill) Height 14' Use Abutments for 20' Span, 15' to 15' Depth. Changes Req'd in Std. R.C. Culvert, Slab Top TYPE 10'-20' Spans, Without Fill, Square, Dated May 1, 1956— For Military Loading: Superstructure: Change Slab Thickness "E" from 12 1/4" to 14" Change Bars B1 & B2 from #8@7½" to #9@7½". Change Length Bar B3 from 19'-10" to 20'-2" Hook Change 16" to 11 1/4" Length Change 20'-6" to 20'-11" Change Hook Bar B2 from 10" to 11 1/4".	18
186	76+91 Rt.	36"x22"	B.C.C.M Pipe-Arch		26'										

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