

INDEX

SHEET NO.	DESIGNATION	S.P.R. APPROVAL	DATE ADOPTED OR LATEST REVISION
1	TITLE SHEET		
2	STD. DIV. LANE (INTERSTATE)		
3	STD. DIV. LANE (INTERSTATE)		
4	STD. CROSS SECTION, 4'-10" R/W	3/1/64	R 1/21/64
5A	STD. CROSS SECTION, TYPICAL CROSS SECTION		
6	STD. 8" INCH RAMP SECTION		
7	STD. 10" INCH RAMP SECTION		
8	STD. PAVEMENT JOINTS SHEET 'A' PLAN AND PROFILE	2/24/64	R 3/26/64
9	STRUCTURE DATA U-12(10)		
10	ESTIMATE OF QUANTITIES U-12(10)		
11	ESTIMATE OF QUANTITIES F-12(9)		
12	MISCELLANEOUS STANDARDS, SHEET MS-1	3/25/64	R 2-1-64
13	MISCELLANEOUS STANDARDS, SHEET MS-2	3/25/64	R 2-1-64
14	MISCELLANEOUS STANDARDS, SHEET MS-3	3/25/64	R 2-1-64
15	MISCELLANEOUS STANDARDS, SHEET MS-4	3/25/64	R 2-1-64
16	MISCELLANEOUS STANDARDS, SHEET MS-5	3/25/64	R 2-1-64
17	MISCELLANEOUS STANDARDS, SHEET MS-6	3/25/64	R 2-1-64
18	MISCELLANEOUS STANDARDS, SHEET MS-7	3/25/64	R 2-1-64
19	MISCELLANEOUS STANDARDS, SHEET MS-8	3/25/64	R 2-1-64
20	MISCELLANEOUS STANDARDS, SHEET MS-9	3/25/64	R 2-1-64
21	MISCELLANEOUS STANDARDS, SHEET MS-10	3/25/64	R 2-1-64
22	MISCELLANEOUS STANDARDS, SHEET MS-11	3/25/64	R 2-1-64
23	MISCELLANEOUS STANDARDS, SHEET MS-12	3/25/64	R 2-1-64
24	MISCELLANEOUS STANDARDS, SHEET MS-13	3/25/64	R 2-1-64
25	MISCELLANEOUS STANDARDS, SHEET MS-14	3/25/64	R 2-1-64
26	MISCELLANEOUS STANDARDS, SHEET MS-15	3/25/64	R 2-1-64
27	MISCELLANEOUS STANDARDS, SHEET MS-16	3/25/64	R 2-1-64
28	MISCELLANEOUS STANDARDS, SHEET MS-17	3/25/64	R 2-1-64
29	MISCELLANEOUS STANDARDS, SHEET MS-18	3/25/64	R 2-1-64
30	MISCELLANEOUS STANDARDS, SHEET MS-19	3/25/64	R 2-1-64
31	MISCELLANEOUS STANDARDS, SHEET MS-20	3/25/64	R 2-1-64
32	MISCELLANEOUS STANDARDS, SHEET MS-21	3/25/64	R 2-1-64
33	MISCELLANEOUS STANDARDS, SHEET MS-22	3/25/64	R 2-1-64
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36	MISCELLANEOUS STANDARDS, SHEET MS-25	3/25/64	R 2-1-64
37	MISCELLANEOUS STANDARDS, SHEET MS-26	3/25/64	R 2-1-64
38	MISCELLANEOUS STANDARDS, SHEET MS-27	3/25/64	R 2-1-64
39	MISCELLANEOUS STANDARDS, SHEET MS-28	3/25/64	R 2-1-64
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41	MISCELLANEOUS STANDARDS, SHEET MS-30	3/25/64	R 2-1-64
42	MISCELLANEOUS STANDARDS, SHEET MS-31	3/25/64	R 2-1-64
43	MISCELLANEOUS STANDARDS, SHEET MS-32	3/25/64	R 2-1-64
44	MISCELLANEOUS STANDARDS, SHEET MS-33	3/25/64	R 2-1-64
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52	MISCELLANEOUS STANDARDS, SHEET MS-41	3/25/64	R 2-1-64
53	MISCELLANEOUS STANDARDS, SHEET MS-42	3/25/64	R 2-1-64
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55	MISCELLANEOUS STANDARDS, SHEET MS-44	3/25/64	R 2-1-64
56	MISCELLANEOUS STANDARDS, SHEET MS-45	3/25/64	R 2-1-64
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62	MISCELLANEOUS STANDARDS, SHEET MS-51	3/25/64	R 2-1-64
63	MISCELLANEOUS STANDARDS, SHEET MS-52	3/25/64	R 2-1-64
64	MISCELLANEOUS STANDARDS, SHEET MS-53	3/25/64	R 2-1-64
65	MISCELLANEOUS STANDARDS, SHEET MS-54	3/25/64	R 2-1-64
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70	MISCELLANEOUS STANDARDS, SHEET MS-59	3/25/64	R 2-1-64
71	MISCELLANEOUS STANDARDS, SHEET MS-60	3/25/64	R 2-1-64
72	MISCELLANEOUS STANDARDS, SHEET MS-61	3/25/64	R 2-1-64
73	MISCELLANEOUS STANDARDS, SHEET MS-62	3/25/64	R 2-1-64
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76	MISCELLANEOUS STANDARDS, SHEET MS-65	3/25/64	R 2-1-64
77	MISCELLANEOUS STANDARDS, SHEET MS-66	3/25/64	R 2-1-64
78	MISCELLANEOUS STANDARDS, SHEET MS-67	3/25/64	R 2-1-64
79	MISCELLANEOUS STANDARDS, SHEET MS-68	3/25/64	R 2-1-64
80	MISCELLANEOUS STANDARDS, SHEET MS-69	3/25/64	R 2-1-64
81	MISCELLANEOUS STANDARDS, SHEET MS-70	3/25/64	R 2-1-64
82	MISCELLANEOUS STANDARDS, SHEET MS-71	3/25/64	R 2-1-64
83	MISCELLANEOUS STANDARDS, SHEET MS-72	3/25/64	R 2-1-64
84	MISCELLANEOUS STANDARDS, SHEET MS-73	3/25/64	R 2-1-64
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86	MISCELLANEOUS STANDARDS, SHEET MS-75	3/25/64	R 2-1-64
87	MISCELLANEOUS STANDARDS, SHEET MS-76	3/25/64	R 2-1-64
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89	MISCELLANEOUS STANDARDS, SHEET MS-78	3/25/64	R 2-1-64
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91	MISCELLANEOUS STANDARDS, SHEET MS-80	3/25/64	R 2-1-64
92	MISCELLANEOUS STANDARDS, SHEET MS-81	3/25/64	R 2-1-64
93	MISCELLANEOUS STANDARDS, SHEET MS-82	3/25/64	R 2-1-64
94	MISCELLANEOUS STANDARDS, SHEET MS-83	3/25/64	R 2-1-64
95	MISCELLANEOUS STANDARDS, SHEET MS-84	3/25/64	R 2-1-64
96	MISCELLANEOUS STANDARDS, SHEET MS-85	3/25/64	R 2-1-64
97	MISCELLANEOUS STANDARDS, SHEET MS-86	3/25/64	R 2-1-64
98	MISCELLANEOUS STANDARDS, SHEET MS-87	3/25/64	R 2-1-64
99	MISCELLANEOUS STANDARDS, SHEET MS-88	3/25/64	R 2-1-64
100	MISCELLANEOUS STANDARDS, SHEET MS-89	3/25/64	R 2-1-64
101	MISCELLANEOUS STANDARDS, SHEET MS-90	3/25/64	R 2-1-64
102	MISCELLANEOUS STANDARDS, SHEET MS-91	3/25/64	R 2-1-64
103	MISCELLANEOUS STANDARDS, SHEET MS-92	3/25/64	R 2-1-64
104	MISCELLANEOUS STANDARDS, SHEET MS-93	3/25/64	R 2-1-64
105	MISCELLANEOUS STANDARDS, SHEET MS-94	3/25/64	R 2-1-64
106	MISCELLANEOUS STANDARDS, SHEET MS-95	3/25/64	R 2-1-64
107	MISCELLANEOUS STANDARDS, SHEET MS-96	3/25/64	R 2-1-64
108	MISCELLANEOUS STANDARDS, SHEET MS-97	3/25/64	R 2-1-64
109	MISCELLANEOUS STANDARDS, SHEET MS-98	3/25/64	R 2-1-64
110	MISCELLANEOUS STANDARDS, SHEET MS-99	3/25/64	R 2-1-64
111	MISCELLANEOUS STANDARDS, SHEET MS-100	3/25/64	R 2-1-64

THIS PROJECT INCLUDES R/W FOR F PROJECT 12(9)

PROJECT NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F 12(9)	1965	1	155

STATE OF INDIANA
INDIANA STATE HIGHWAY COMMISSION

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY
U PROJECT NO. 12 (10) P.E.
(10) R/W
(10) CONSTR.

BEGINNING AT A POINT ON U.S. 50 2640 FT. WEST OF AND 1349 FT. NORTH OF THE SOUTHEAST CORNER OF SECTION 17, T.6N.-R.6E., THENCE IN AN EASTERLY DIRECTION A DISTANCE OF 2185 FT. TO A POINT 455 FT. WEST OF AND 1334 FT. NORTH OF THE SOUTHEAST CORNER OF SECTION 17, T.6N.-R.6E. ALL IN JACKSON TOWNSHIP, JACKSON COUNTY.

F PROJECT NO. 12 (9) P.E.
(9) R/W
(9) CONSTR.

BEGINNING AT A POINT ON U.S. 50 455 FT. WEST OF AND 1334 FT. NORTH OF THE SOUTHEAST CORNER OF SECTION 17, T.6N.-R.6E. THENCE IN AN EASTERLY DIRECTION A DISTANCE OF 7053 FT. TO A POINT 1302 FT. EAST OF AND 1295 FT. NORTH OF THE SOUTHWEST CORNER OF SECTION 15, T.6N.-R.6E. ALL IN JACKSON TOWNSHIP, JACKSON COUNTY.

DESIGN DATA	
A.D.T. (1962)	10,830 V.P.D.
A.D.T. (1962) PROJECTED	2,500 V.P.D.
D.H.V.	5.711 V.P.D.
DIRECTIONAL DISTRIBUTION	57%
TRUCKS	DHV 8% ADT 20%
DESIGN SPEED	40-70 M.P.H.
ACCESS CONTROL	None

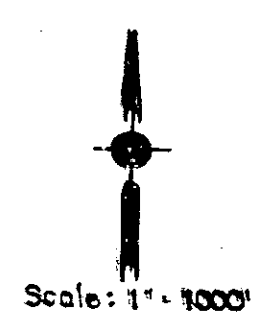
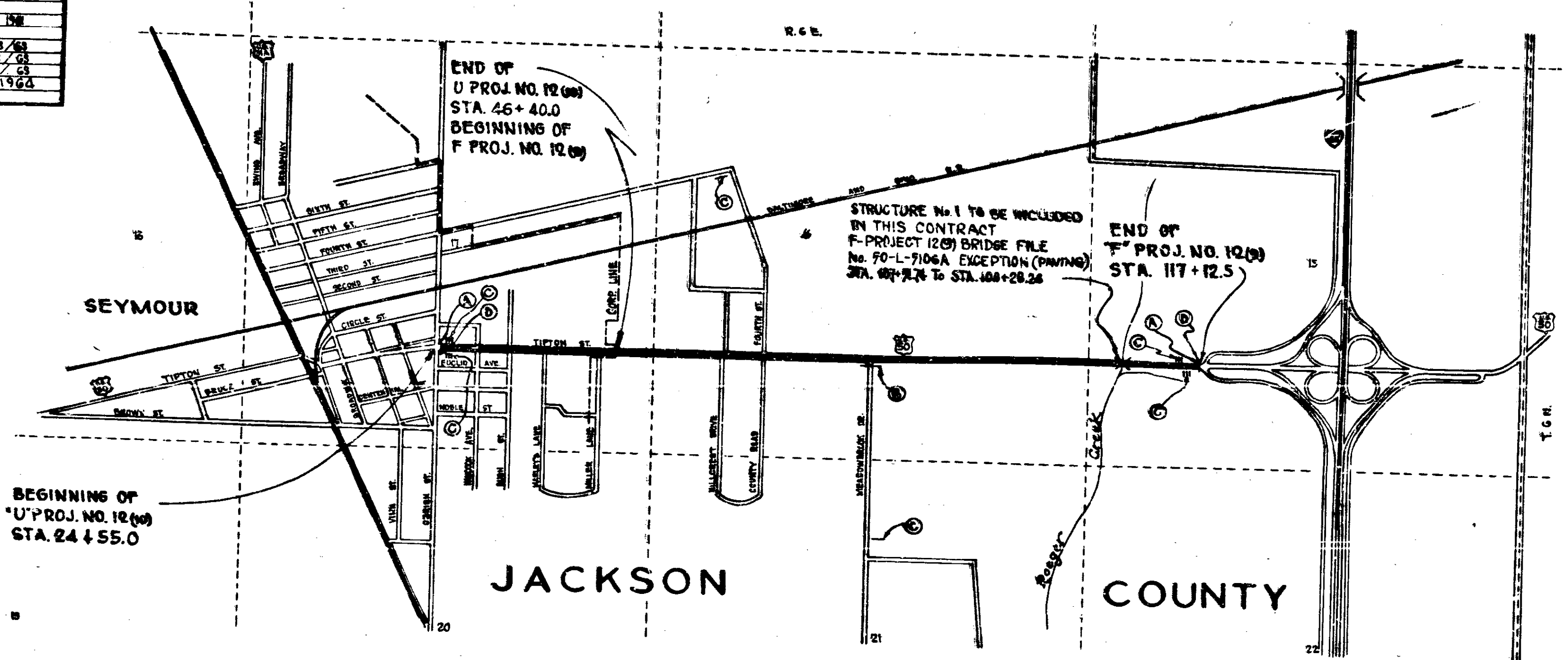
GROSS LENGTH- 413 MI.
NET LENGTH- 413 MI.

PLAN (LONG: 1"=100' PROFILE (HORIZ: 1"=100'
TRANS: 1"=100' VERT: 1"=10'

MAX. GRADE 1.85%

GROSS LENGTH- 1,330 MI.
NET LENGTH- 1,330 MI.

REVISIONS		
SHEET NO.	DATE	REVISED
1, 2, 15	7-31-63	Per R/W Dept.
1, 12, 13, 14, 15, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 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, 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, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155	3/9/64	A FEB. 1964



- ⊙ Baricade, Type "A"
- ⊙ Baricade, Type "B"
- ⊙ Typical Sign Standards
- ⊙ Construction Identification Sign

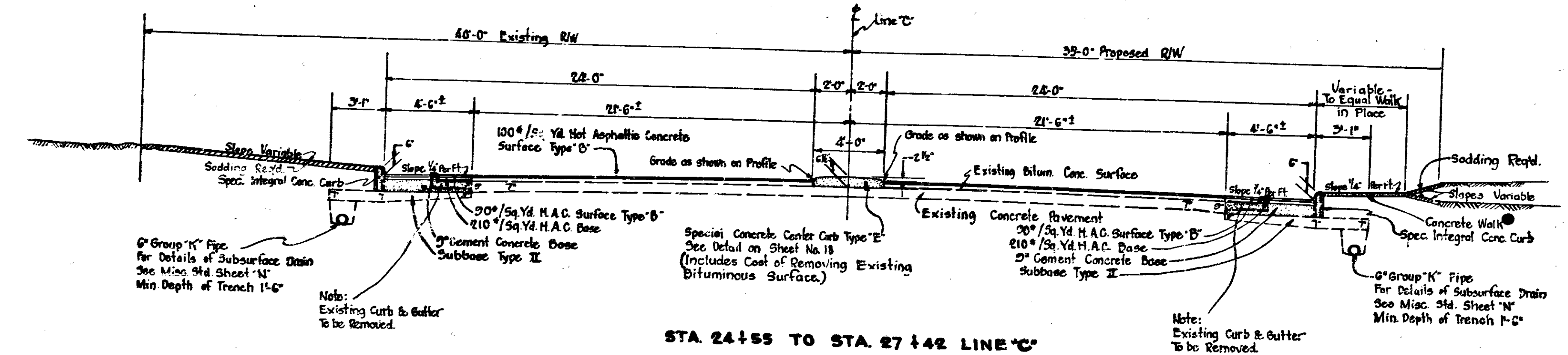
STATE HIGHWAY DEPARTMENT OF INDIANA
STANDARD SPECIFICATIONS DATED 1963
TO BE USED WITH THESE PLANS.

RECOMMENDED FOR APPROVAL 1-11-63
W.A. Behrens
ENGINEER OF ROAD DESIGN, INDIANA STATE HIGHWAY COMMISSION

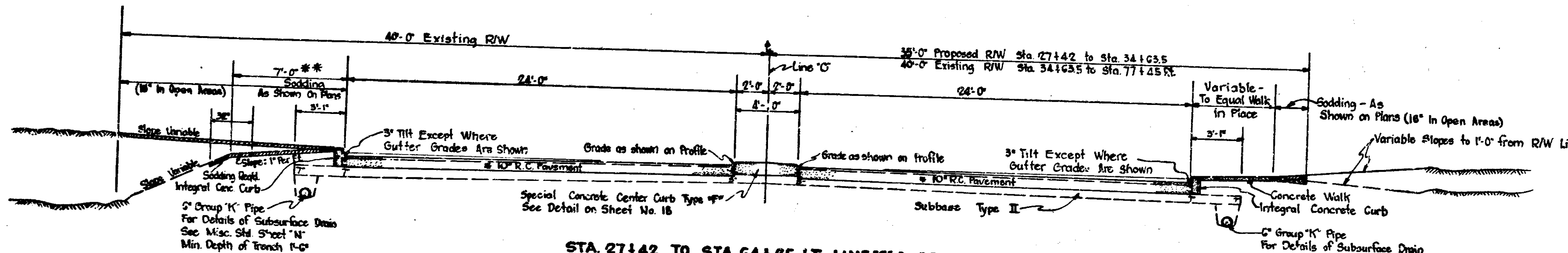
APPROVED 1-15-64
J.F. Behrens
ACTING CHIEF ENGINEER, INDIANA STATE HIGHWAY COMMISSION

BUREAU OF PUBLIC ROADS DEPARTMENT OF COMMERCE	
APPROVED	
DIVISION ENGINEER	DATE
ROAD FILE: F-12(9)X1	

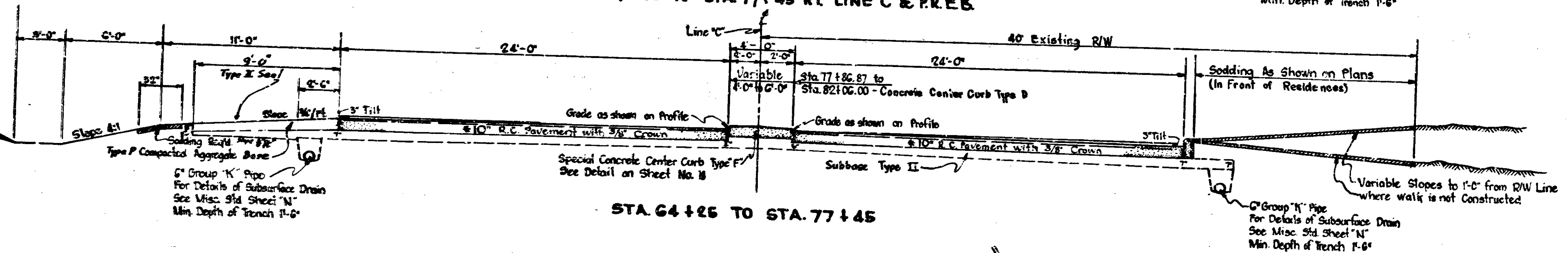
FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F12(g) U12(c)	1965	3	135



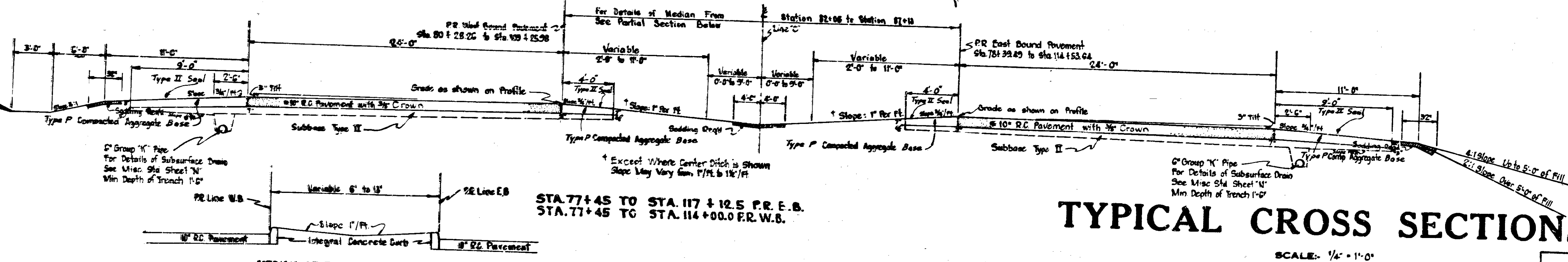
STA 24+55 TO STA 27+42 LINE 'C'



STA 27+42 TO STA 64+25 LT. LINE 'C' & P.R.W.B.
STA 27+42 TO STA 77+45 RT. LINE 'C' & P.R.E.B.



STA 64+25 TO STA 77+45



STA 77+45 TO STA 117+12.5 P.R.E.B.
STA 77+45 TO STA 114+00.0 P.R.W.B.

MEDIAN SECTION STA. 82+06 TO STA. 87+10

TYPICAL CROSS SECTIONS

SCALE: 1/4" = 1'-0"

Note: In High Fills, Shoulder will be 7'-0". See Cross Sections

Note: Variable Slope for Cut from 5:1 to 10:1. 5'-0" from R/W Line (L.S. R/W) Cut to be difference in Elevation from Which Line to Original Ground Line 3'-0" from R/W Line

Note: 2:1 Slope for Cut of 10' or more. 4:1 Slope for cut up to 5'-0"

RECOMMENDED FOR APPROVAL 1-11-63

APPROVED: *[Signature]*

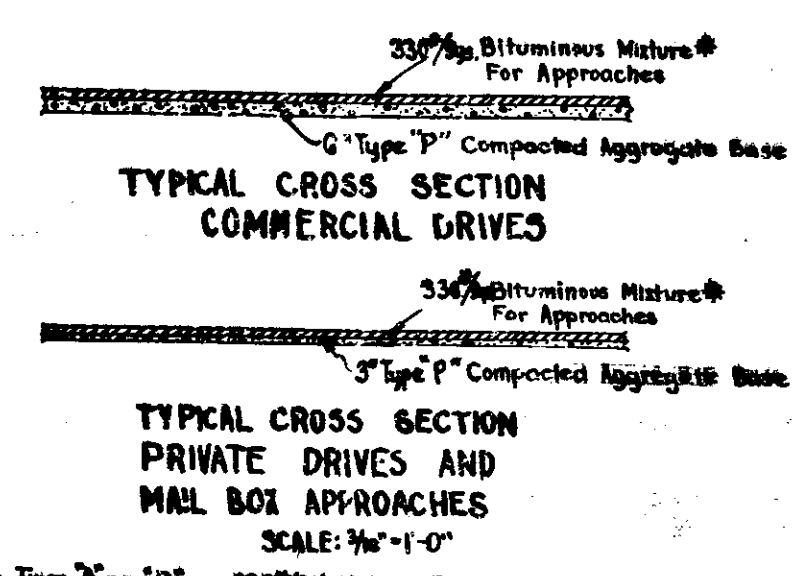
[Signature]

* For Pavement Details See Standard Section E-11-JR

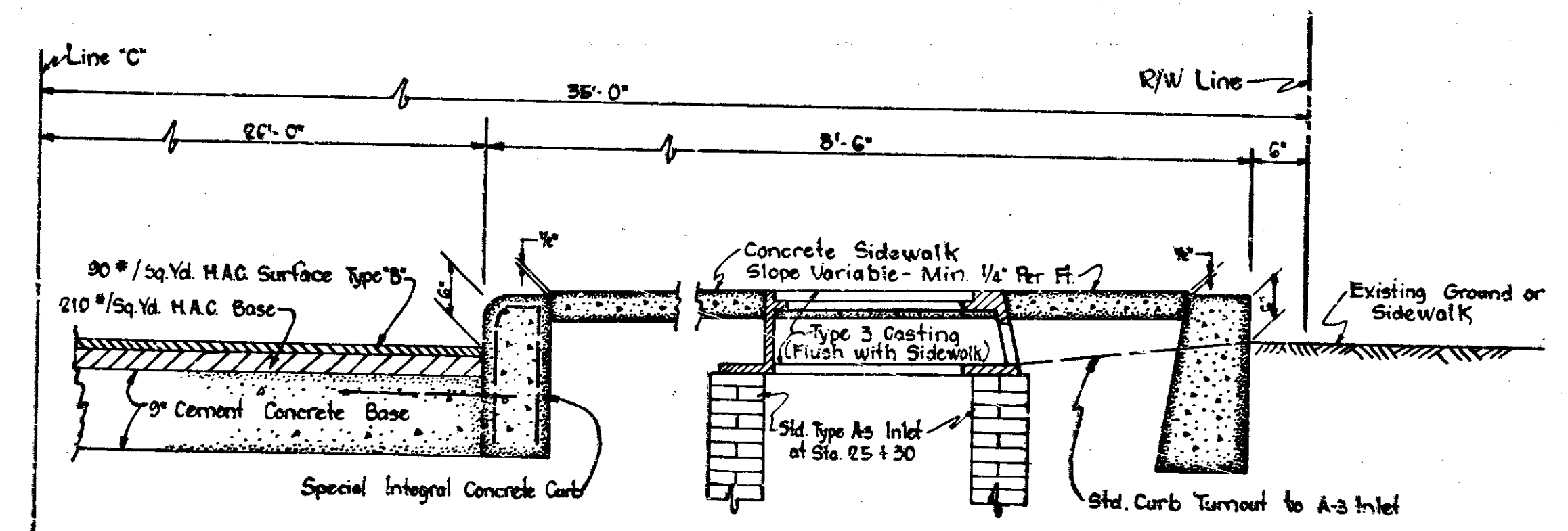
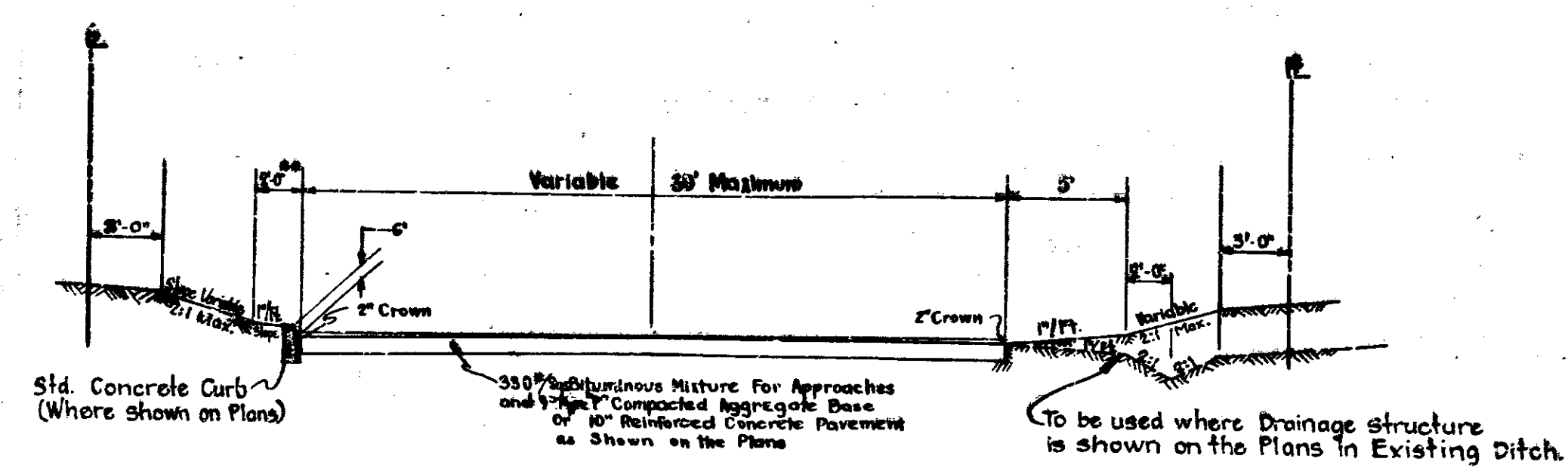
November 6, 1961

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS
F12(g) U12(c)	C	3	135

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-12(s) U-220	1965	4	135



*110 #/Sq. Yd. H.A.C. Surface Type 'A' or 'B' on 220 #/Sq. Yd. H.A.C. Base
or
110 #/Sq. Yd. Hot A.E. Surface Type II or III and
220 #/Sq. Yd. Hot A.E. Base



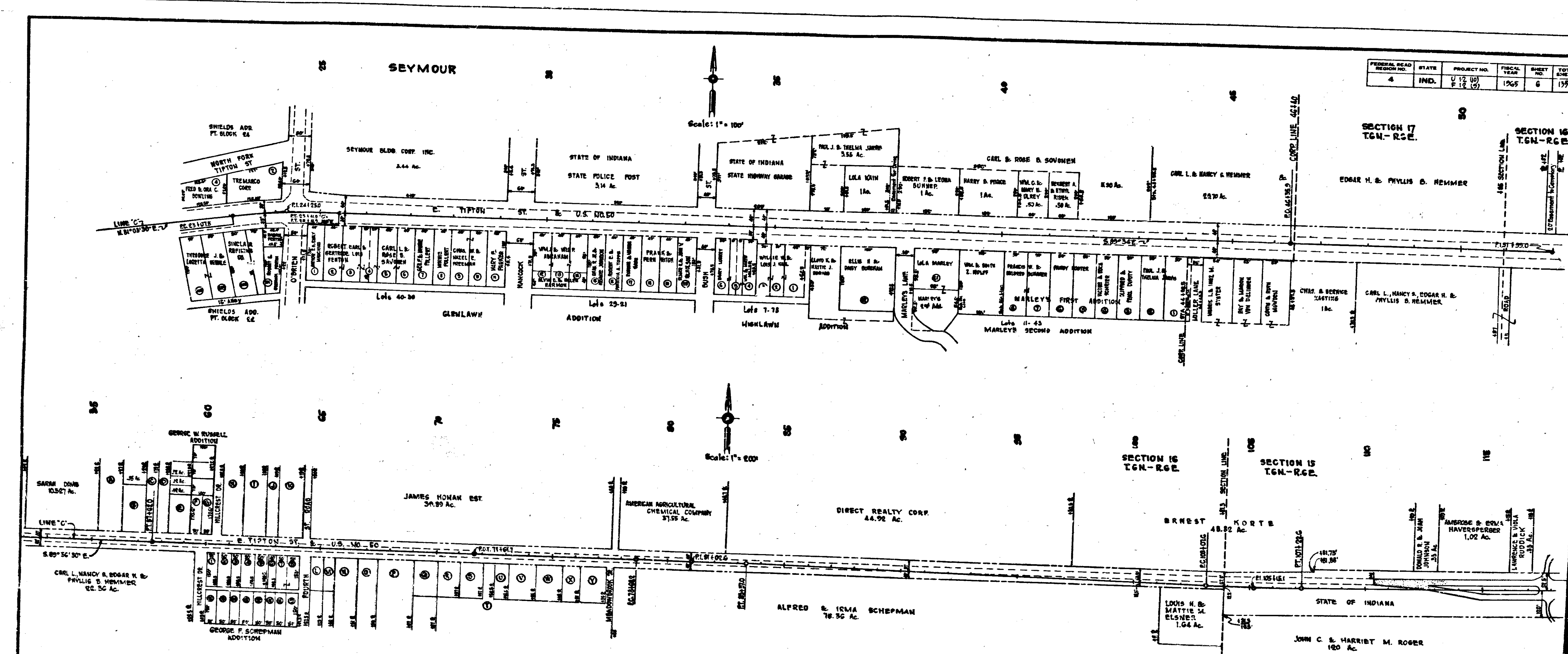
TYPICAL CROSS SECTIONS

SCALE: AS NOTED

APPROVED: *[Signature]*
RECOMMENDED FOR APPROVAL: *[Signature]* 1-11-63

November 6, 1961

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS
F-12(s) U-220	C	4	135



FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	U 12 (6) F 13 (2)	1965	6	197

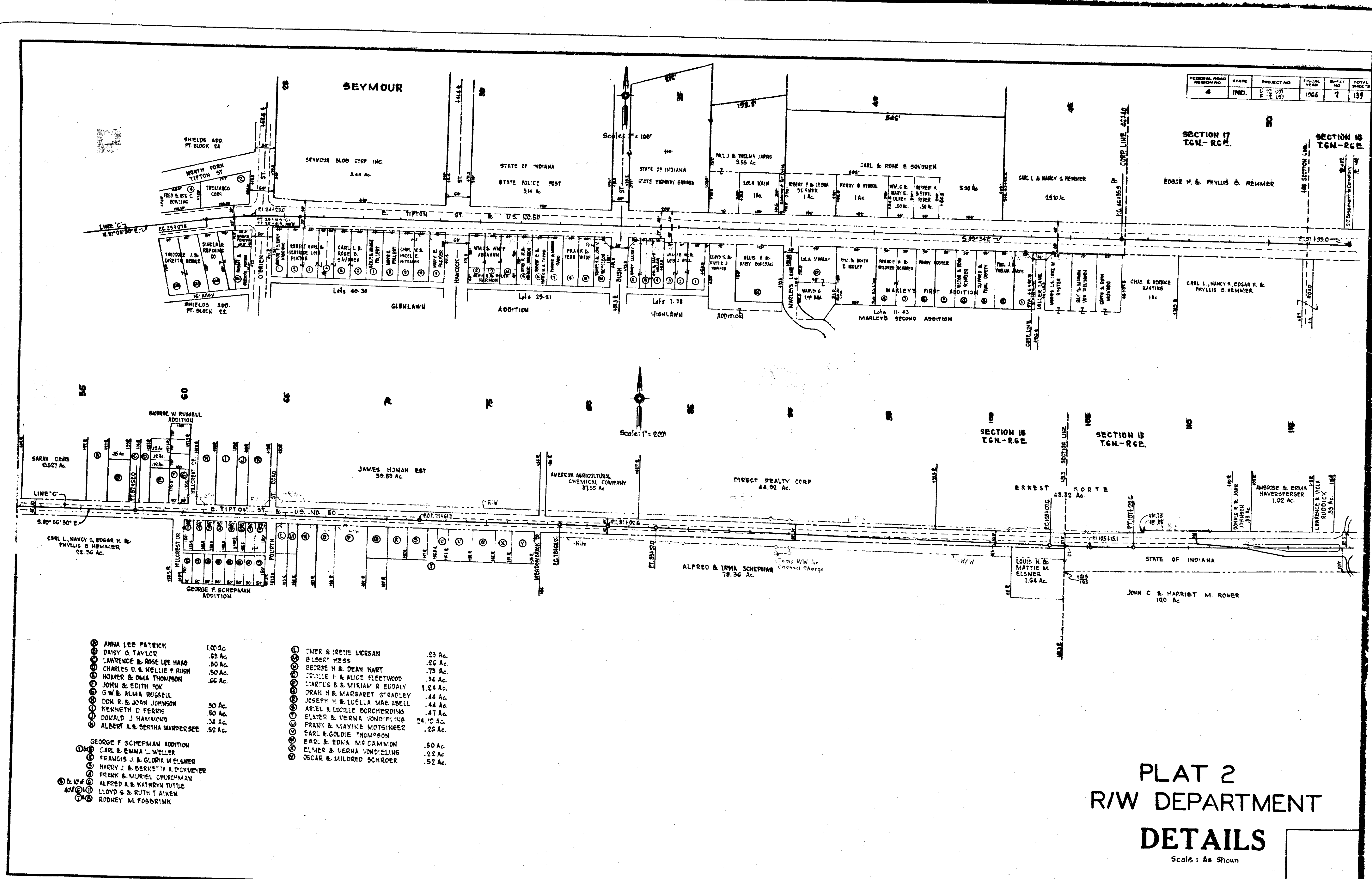
- ① ANNA LEE PATRICK 1.00 Ac.
- ② DAISY B. TAYLOR .65 Ac.
- ③ LAWRENCE B. ROSS LEE HAAS .50 Ac.
- ④ CHARLES D. & NELLIE F. RUSH .50 Ac.
- ⑤ HOMER B. OMA THOMPSON .46 Ac.
- ⑥ JOHN & EDITH FOX
- ⑦ G. W. & ALMA RUSSELL
- ⑧ DON R. & JOAN JOHNSON 30 Ac.
- ⑨ KENNETH D. FERRIS 50 Ac.
- ⑩ DONALD J. HAMMOND 34 Ac.
- ⑪ ALBERT A. & BERTHA WANDERSEE 52 Ac.
- ⑫ GEORGE F. SCHEPMAN ADDITION
- ⑬ CARL & EMMA L. WELER
- ⑭ FRANCIS J. & GLORIA M. ELSNER
- ⑮ HARRY J. & BERNETTA A. DICKMAYER
- ⑯ FRANK & MURIEL CHURCHMAN
- ⑰ ALFRED A. & KATHRYN TUTTLE
- ⑱ LLOYD S. & RUTH T. AIKES
- ⑳ RODNEY M. FOSSBRINK
- ① OMER & HELEN MORRAN .23 Ac.
- ② GILBERT HESS .26 Ac.
- ③ GEORGE H. & DEAN HART .78 Ac.
- ④ ORVILLE H. & ALICE FLEETWOOD .34 Ac.
- ⑤ MARCUS B. & MIRIAM R. EDDY 1.24 Ac.
- ⑥ ORAN H. & MARGARET STRADLEY .44 Ac.
- ⑦ JOSEPH H. & LOELLA MAE ABELL .44 Ac.
- ⑧ ARIEL & LUCILLE BÖRCHERDING .47 Ac.
- ⑨ ELMER & VERA VONDIELING 34.10 Ac.
- ⑩ FRANK & MARVINE MÖTSINGER .26 Ac.
- ⑪ EARL & SOLDIE THOMPSON
- ⑫ EARL & EDNA MCCAMMON .50 Ac.
- ⑬ ELMER & VERA VONDIELING .22 Ac.
- ⑭ OSCAR & MILDRED SCHROEDER .32 Ac.

PLAT I
ROAD DESIGN DEPARTMENT
DETAILS
 Scale: As Shown

November 6, 1964

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
U-12 (6) F-13 (2)	10 & 11	6	197	

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	172 (1) 172 (2)	1966	7	137



- | | | | |
|------------------------------------|----------|---------------------------------|-----------|
| ① ANNA LEE PATRICK | 1.00 Ac. | ① CYR & IRENE MORSON | .23 Ac. |
| ② DANNY O TAYLOR | .65 Ac. | ② GILBERT JESS | .20 Ac. |
| ③ LAWRENCE & ROSE LEE HANG | .50 Ac. | ③ GEORGE H & DEAN HART | .79 Ac. |
| ④ CHARLES D. & NELLIE F. RUSH | .50 Ac. | ④ LUCILLE I. & ALICE FLEETHOOD | .34 Ac. |
| ⑤ HOMER & OMA THOMPSON | .50 Ac. | ⑤ CARLOS B. & MIRIAM R. EUDALY | 1.24 Ac. |
| ⑥ JOHN & EDITH FOX | .50 Ac. | ⑥ ORAN H. & MARGARET STRADLEY | .44 Ac. |
| ⑦ G.W. & ALMA RUSSELL | .50 Ac. | ⑦ JOSEPH H. & LUCILLA MAE ABELL | .44 Ac. |
| ⑧ DON R. & JOAN JOHNSON | .50 Ac. | ⑧ ARCEL & LUCILLE BORCHERING | .47 Ac. |
| ⑨ KENNETH D. FERRIS | .50 Ac. | ⑨ ELMER & VERNIA VONDIKLING | 24.10 Ac. |
| ⑩ DONALD J. HAYMOUD | .34 Ac. | ⑩ FRANK & MAYNIE MOTSINEER | .26 Ac. |
| ⑪ ALBERT A. & BERTHA WANDERSEE | .52 Ac. | ⑪ EARL & GOLDIE THOMPSON | .50 Ac. |
| ⑫ GEORGE F. SCHEPMAN ADDITION | | ⑫ EARL & EDNA M. CAMMON | .22 Ac. |
| ⑬ CARL & EMMA L. WIELER | | ⑬ ELMER & VERNIA VONDIKLING | .22 Ac. |
| ⑭ FRANCIS J. & GLORIA WELSHNER | | ⑭ OSCAR & MILDRED SCHROEDER | .52 Ac. |
| ⑮ HARVEY J. & BERNETTE A. SCHMAYER | | | |
| ⑯ FRANK & MURIEL CHURCHMAN | | | |
| ⑰ ALFRED & KATHRYN TUTTLE | | | |
| ⑱ LLOYD & RUTH T. AINEN | | | |
| ⑳ RODNEY M. FOSBRINK | | | |

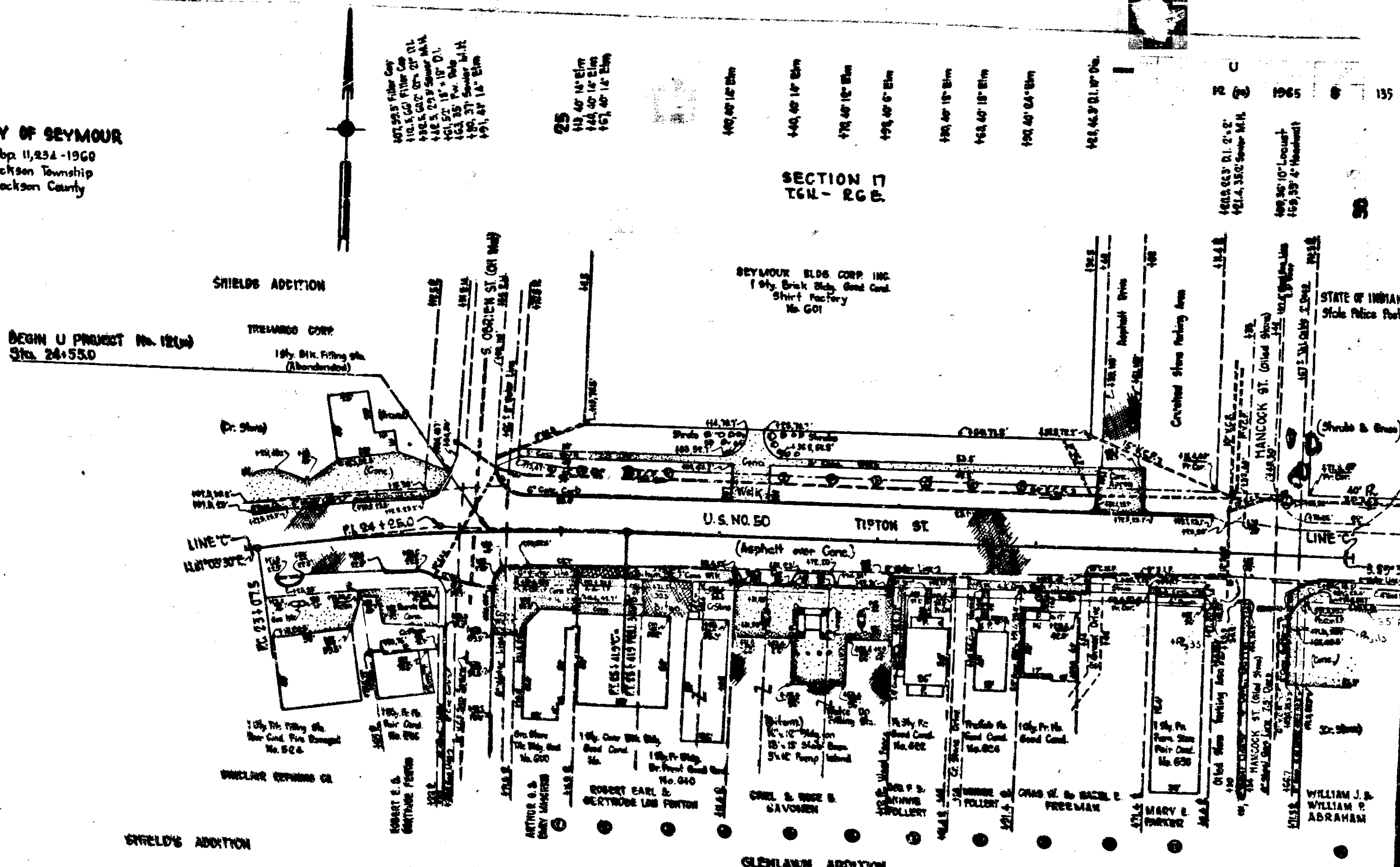
PLAT 2
R/W DEPARTMENT
DETAILS
 Scale: As Shown

November 6, 1961

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
172 (1) 172 (2)	2 & 3	7	137	

CITY OF SEYMOUR
Pop. 11,834 - 1950
Jackson Township
Jackson County

SECTION 17
TCL - RCP

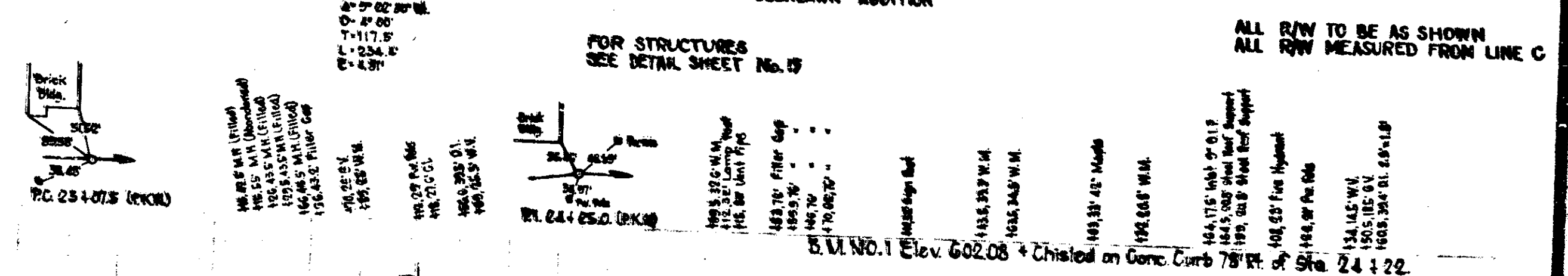


UTILITY COMPANIES
TELEPHONE
Indiana Telephone Corporation
Third & Main Streets
Seymour, Indiana

WATER
Seymour Water Company
14 S. Chestnut St.
Seymour, Indiana

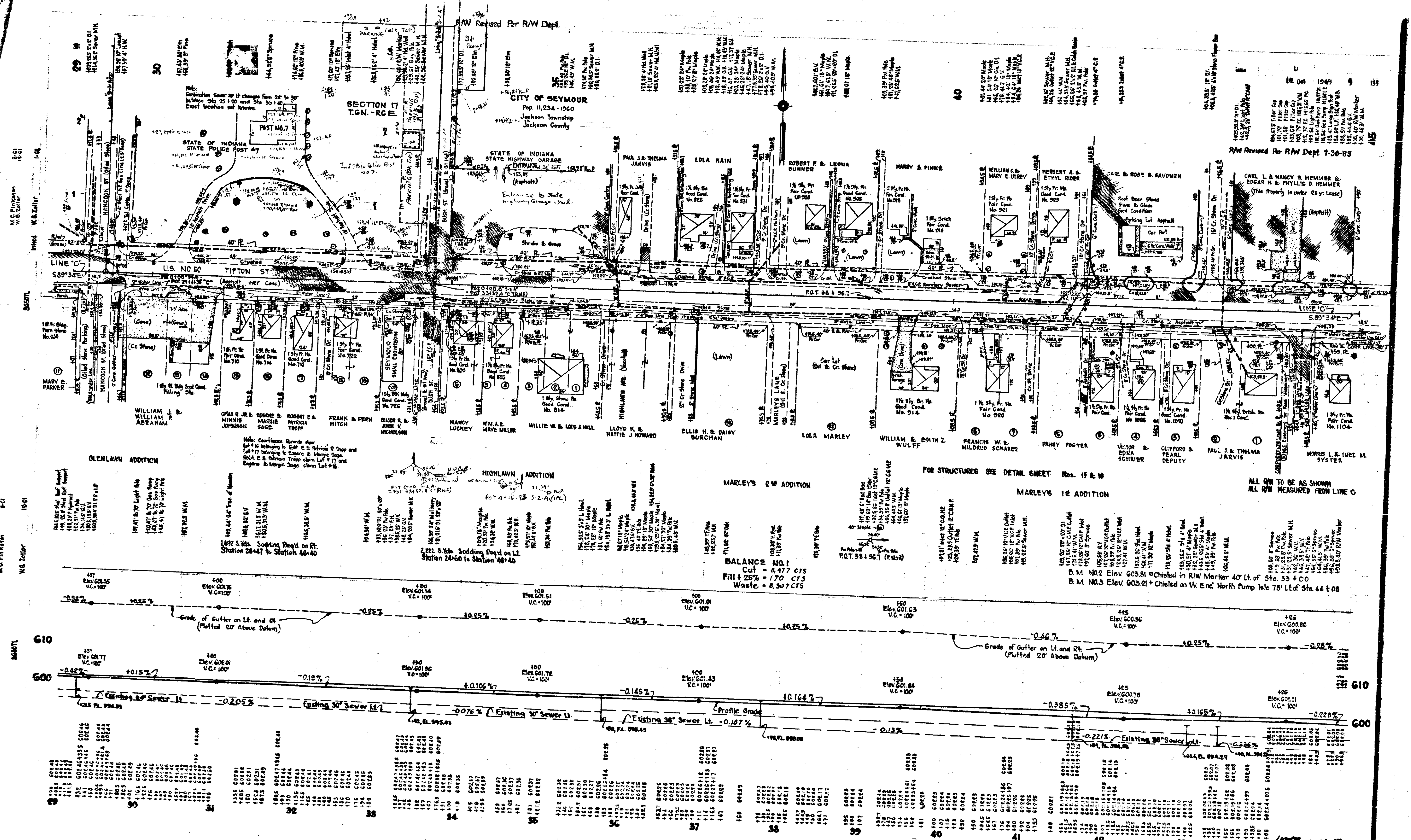
GAS
Indiana Gas & Water Company Inc.
228 S. Chestnut St.
Seymour, Indiana

POWER
Public Service Company of Indiana
215 S. Chestnut St.
Seymour, Indiana



STANDARD CROSS SECTION E-T-R REVISED 1961 AS SHOWN ON SHEET No. 2 TO BE USED ON THIS PROJECT
TYPICAL CROSS SECTIONS AS SHOWN ON SHEET No. 2 TO BE USED ON THIS PROJECT
STATE HIGHWAY COMMISSION OF INDIANA STANDARD SPECIFICATIONS DATED 1963 TO BE USED WITH THESE PLANS
STANDARDS UNDER DATES AS LISTED IN INDEX ON TITLE SHEET TO BE USED ON THIS PROJECT
GRADE LINE AS SHOWN ON PROFILE REPRESENTS TOP OF FINISHED SURFACE AS INDICATED
ON THE STANDARD OR TYPICAL CROSS SECTIONS
ALL DITCHES OF 1% AND OVER SHALL BE SOILED EXCEPT WHERE DITCH IS IN ROCK CUT OR WHERE
PAVED SIDE DITCH IS TO BE CONSTRUCTED
ALL SHOULDERS, CUT AND FILL SLOPES SHALL BE PLAIN OR MULCHED SEEDS EXCEPT WHERE SOILING
IS SPECIFIED
SHOULDERS ARE TO BE SOILED AS SHOWN ON MISCELLANEOUS STANDARD SHEET "S", OR AS INDICATED ON THE
TYPICAL CROSS SECTIONS
SOILING SHALL BE PLACED ALONG DITCH SIDE DITCH AS SHOWN ON MISCELLANEOUS STANDARD SHEET "E"
EXCAVATION QUANTITIES AS SHOWN ON PLAN AND PROFILE SHEETS INCLUDE ESTIMATED EXCAVATION FOR PRIVATE AND
PUBLIC APPROACHES. (SEE TABLES ON SHEETS Nos. 19, 20 & 21)
CONSTRUCTION JOINTS SHALL BE PLACED AT THE BEGINNING AND END OF ALL RAIN IN STREET AND RAILY INTERSECTIONS
PUBLIC ROAD APPROACHES SHALL BE CONSTRUCTED AS SHOWN ON MISCELLANEOUS STANDARD SHEET "E"
AND AS INDICATED IN THE APPROACH TABLES ON SHEETS Nos. 19, 20 & 21
PRIVATE DRIVE, COMMERCIAL DRIVE AND HOUS. DR. APPROACHES SHALL BE CONSTRUCTED AS SHOWN BY SECTION
ON MISCELLANEOUS STANDARD SHEETS "H" AND "H", AND AS INDICATED IN THE APPROACH TABLES ON SHEETS Nos. 19, 20 & 21
QUANTITIES FOR HEADWALLS ARE BASED ON USING PIPE CULVERT HEADWALLS FOR RETAINING 2:1 SLOPES
AND PRIVATE ENTRANCE HEADWALLS FOR RETAINING 4:1 SLOPES
FOR KINDS OF PIPE PERMITTED FOR EACH SIZE AND CLASSIFICATION AS SHOWN IN STRUCTURE NOTES,
SEE MISCELLANEOUS STANDARD SHEET "P" AND "P"
SUB-SURFACE DRAIN ALONG CURB SECTIONS TO BE CONNECTED TO NEAREST CATCH BASIN OR
INLET. (IN DIRECTION OF FLOW)

Station	Elevation	Structure
600.00	600.00	101
600.00	600.00	102
600.00	600.00	103
600.00	600.00	104
600.00	600.00	105
600.00	600.00	106
600.00	600.00	107
600.00	600.00	108
600.00	600.00	109
600.00	600.00	110
600.00	600.00	111
600.00	600.00	112
600.00	600.00	113
600.00	600.00	114
600.00	600.00	115
600.00	600.00	116
600.00	600.00	117
600.00	600.00	118
600.00	600.00	119
600.00	600.00	120
600.00	600.00	121
600.00	600.00	122
600.00	600.00	123
600.00	600.00	124
600.00	600.00	125
600.00	600.00	126
600.00	600.00	127
600.00	600.00	128
600.00	600.00	129
600.00	600.00	130
600.00	600.00	131
600.00	600.00	132
600.00	600.00	133
600.00	600.00	134
600.00	600.00	135
600.00	600.00	136
600.00	600.00	137
600.00	600.00	138
600.00	600.00	139
600.00	600.00	140
600.00	600.00	141
600.00	600.00	142
600.00	600.00	143
600.00	600.00	144
600.00	600.00	145
600.00	600.00	146
600.00	600.00	147
600.00	600.00	148
600.00	600.00	149
600.00	600.00	150
600.00	600.00	151
600.00	600.00	152
600.00	600.00	153
600.00	600.00	154
600.00	600.00	155
600.00	600.00	156
600.00	600.00	157
600.00	600.00	158
600.00	600.00	159
600.00	600.00	160
600.00	600.00	161
600.00	600.00	162
600.00	600.00	163
600.00	600.00	164
600.00	600.00	165
600.00	600.00	166
600.00	600.00	167
600.00	600.00	168
600.00	600.00	169
600.00	600.00	170
600.00	600.00	171
600.00	600.00	172
600.00	600.00	173
600.00	600.00	174
600.00	600.00	175
600.00	600.00	176
600.00	600.00	177
600.00	600.00	178
600.00	600.00	179
600.00	600.00	180
600.00	600.00	181
600.00	600.00	182
600.00	600.00	183
600.00	600.00	184
600.00	600.00	185
600.00	600.00	186
600.00	600.00	187
600.00	600.00	188
600.00	600.00	189
600.00	600.00	190
600.00	600.00	191
600.00	600.00	192
600.00	600.00	193
600.00	600.00	194
600.00	600.00	195
600.00	600.00	196
600.00	600.00	197
600.00	600.00	198
600.00	600.00	199
600.00	600.00	200



SECTION 17
TGN-RCE

CITY OF SEYMOUR
Pop. 11,234 - 1960
Jackson Township
Jackson County

STATE OF INDIANA
STATE HIGHWAY GARAGE
CONTRACT NO. 12-10210-2
(Asphalt)

GLENLAWN ADDITION

HIGHLAWN ADDITION

MARLEY'S 2ND ADDITION

MARLEY'S 1ST ADDITION

BALANCE NO. 1
Cut = 4,477 cfs
Fill + 26% = 170 cfs
Waste = 8,307 cfs

B.M. NO. 2 Elev. 603.81 + Chained in R/W Marker 40' Lt. of Sta. 53 + 00
B.M. NO. 3 Elev. 603.01 + Chained on W. End North Pump tele 78' Lt. of Sta. 44 + 08

UNTS 1-1-13 45

U 12(6) 6

CITY OF SEYMOUR
 Pop. 11,234 - 1950
 Jackson Township
 Jackson County

SECTION 17
 T6N - R5E.

SECTION 18
 T6N - R5E.

SECTION 55

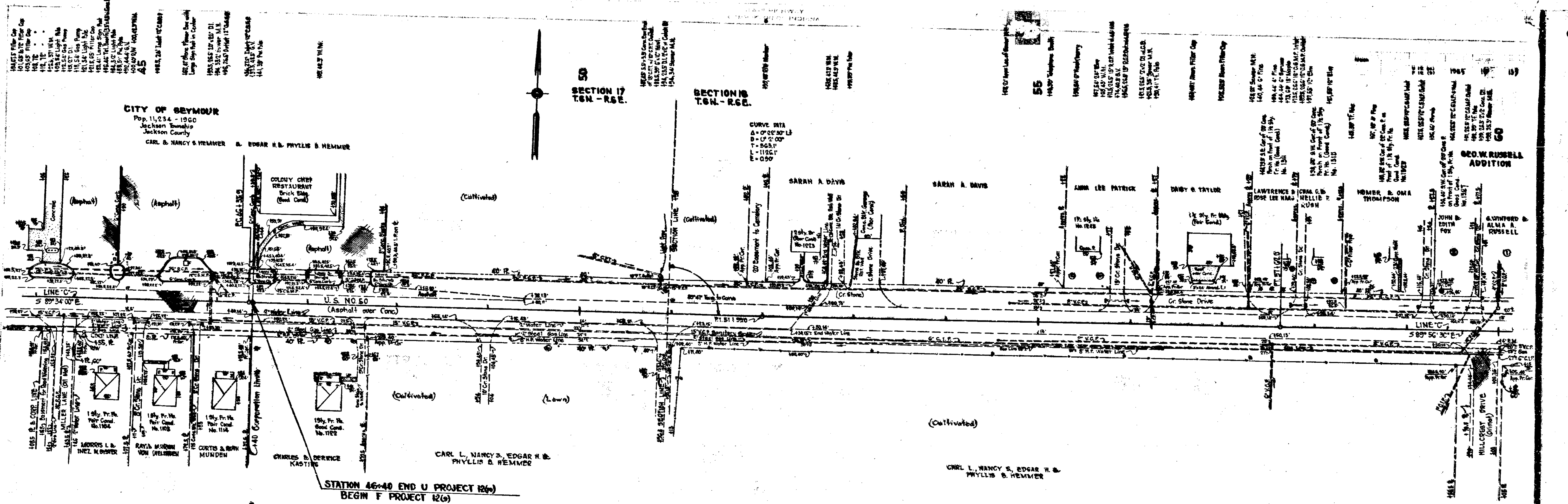
SECTION 56

SECTION 57

SECTION 58

SECTION 59

CURVE DATA
 A = 0°20'30" L
 B = 10' 0" OP
 T = 565.8'
 L = 1126.1'
 E = 0.50'



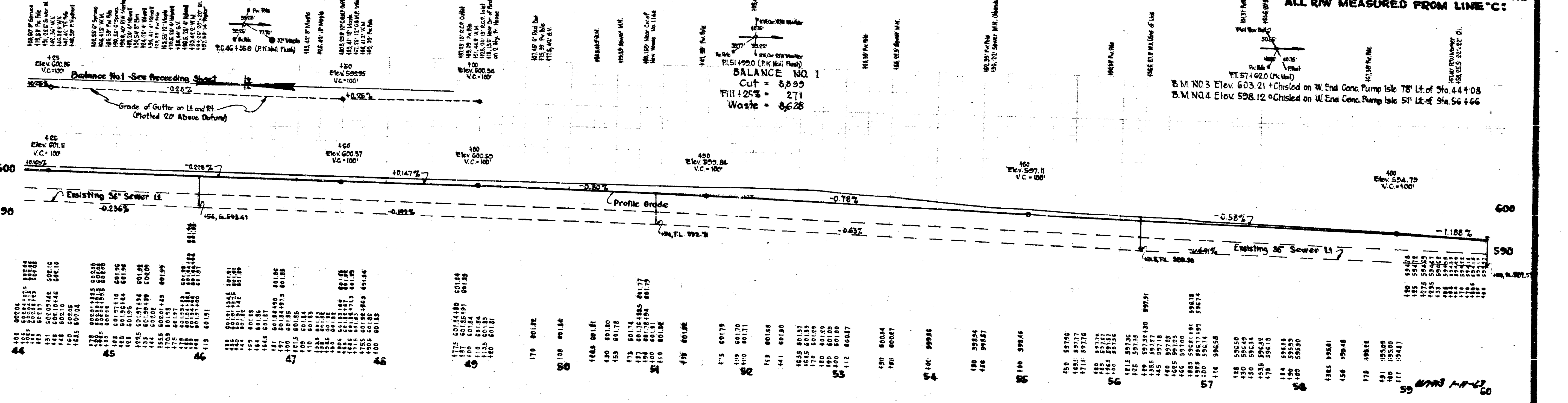
STATION 46+40 END U PROJECT 12(a)
BEGIN F PROJECT 12(a)

FOR STRUCTURES SEE DETAIL SHEET Nos. 16 & 17

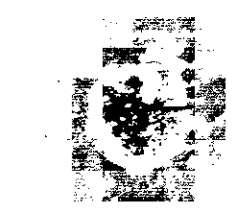
ALL R/W ON THIS SHEET TO BE AS SHOWN
ALL R/W MEASURED FROM LINE 'C'

B.M. NO. 3 Elev. 603.21 + Chisled on W. End Conc. Pump Isle 78' Lt. of Sta. 44+08
 B.M. NO. 4 Elev. 598.12 + Chisled on W. End Conc. Pump Isle 54' Lt. of Sta. 56+66

BALANCE NO. 1
 Cut = 8,899
 Fill + 25% = 271
 Waste = 8,628



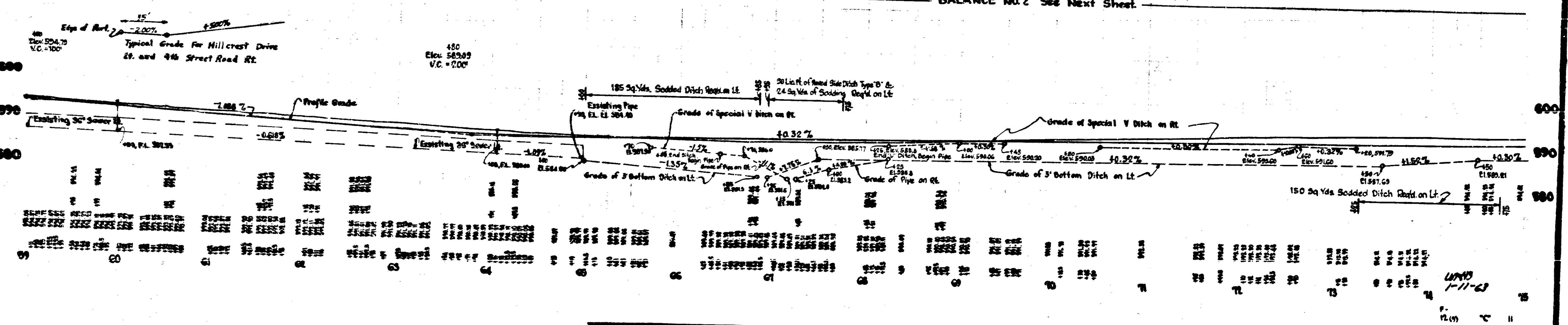
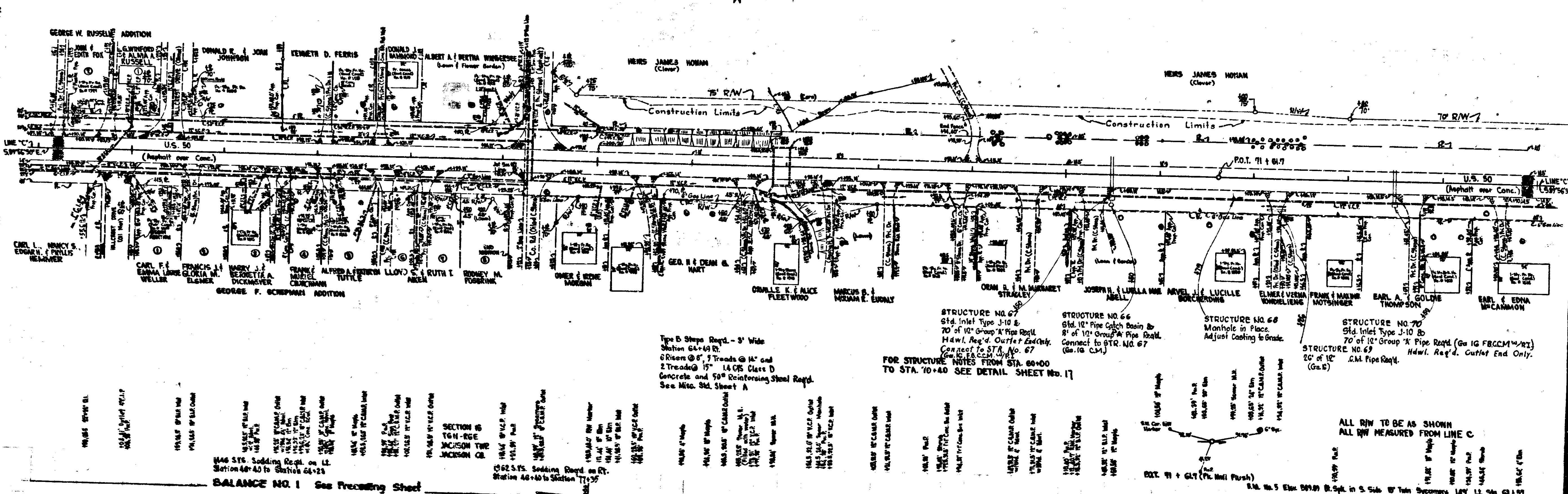
Station	Prop. Elev.	Grd. Elev.
44	600.04	600.04
45	600.15	600.15
46	600.25	600.25
47	600.35	600.35
48	600.45	600.45
49	600.55	600.55
50	600.65	600.65
51	600.75	600.75
52	600.85	600.85
53	600.95	600.95
54	601.05	601.05
55	601.15	601.15
56	601.25	601.25
57	601.35	601.35
58	601.45	601.45
59	601.55	601.55



SECTION IS T-6-R-6E JACKSON TWP. JACKSON CO. MISSOURI

U.S. 50

12 (9) 1967 14 157
STR. REV. 12-2-63 Per Road Design Dept.



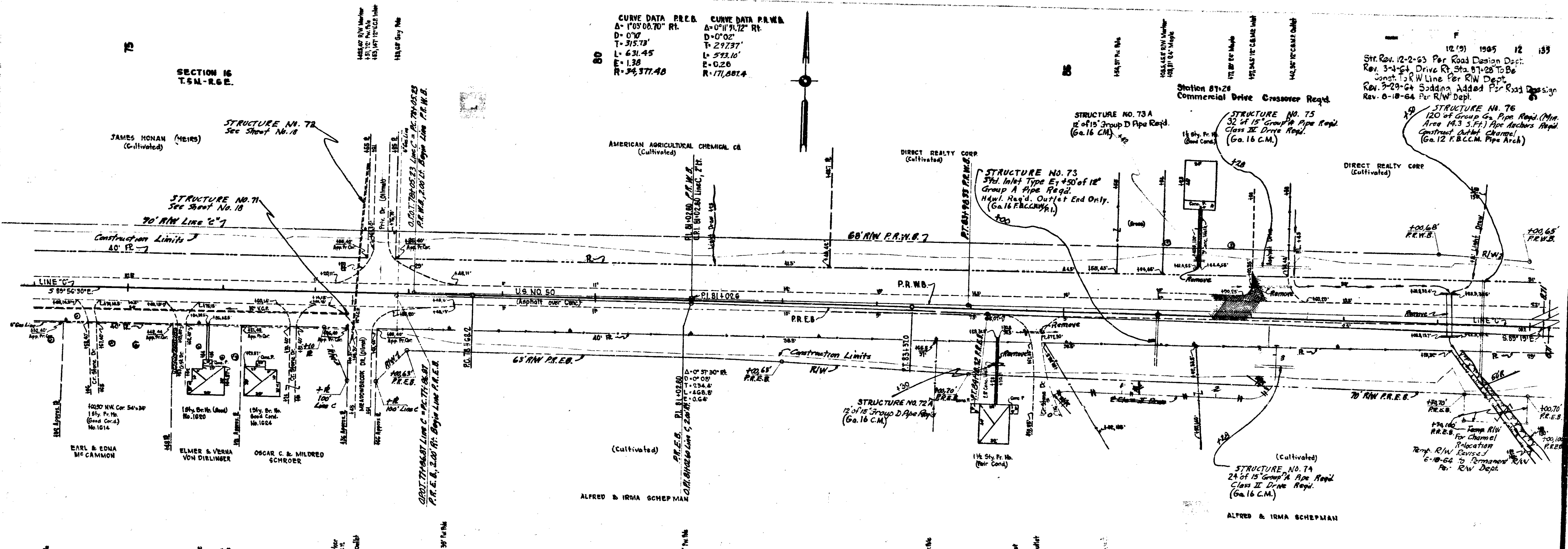
11-63
12 (9)

SECTION 16
T.S.M.-R.G.E.

CURVE DATA P.R.E.B.
 $\Delta = 1^{\circ}03'00.70''$ R.T.
 $D = 0^{\circ}00'$
 $T = 315.73'$
 $L = 631.45'$
 $E = 1.38'$
 $R = 34,371.40'$

CURVE DATA P.R.M.A.
 $\Delta = 0^{\circ}11'31.72''$ R.T.
 $D = 0^{\circ}02'$
 $T = 297.37'$
 $L = 573.10'$
 $E = 0.26'$
 $R = 171,687.4'$

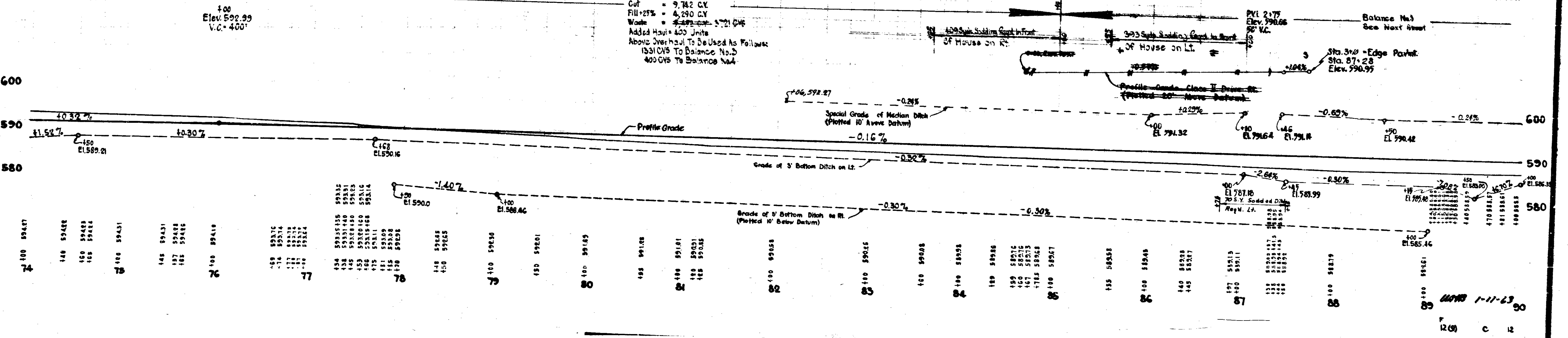
12/19/1905 12 133
 Str. Rev. 12-2-03 Per Road Design Dept.
 Rev. 3-4-04 Drive Rt. Sta. 87+28 To Be
 Const. To R/W Line Per R/W Dept.
 Rev. 3-29-04 Sadding Added Per Road Design
 Rev. 8-10-04 Per R/W Dept.



100
 Elev. 592.99
 V.C. = 400'

Balance No. 2
 Cut = 9,742 CY
 Fill = 27% = 4,290 CY
 Waste = 5,452 CY
 Added Haul = 400 Units
 Above Overhaul To Be Used As Follows:
 1531 CYS To Balance No. 3
 400 CYS To Balance No. 4

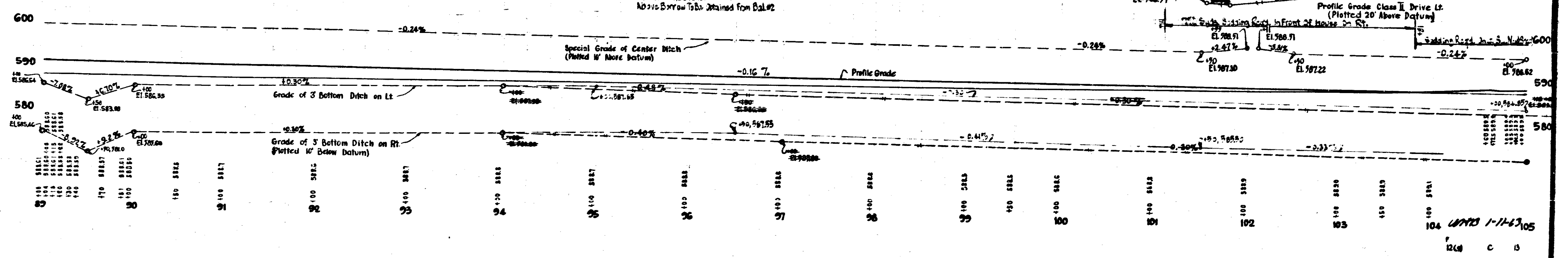
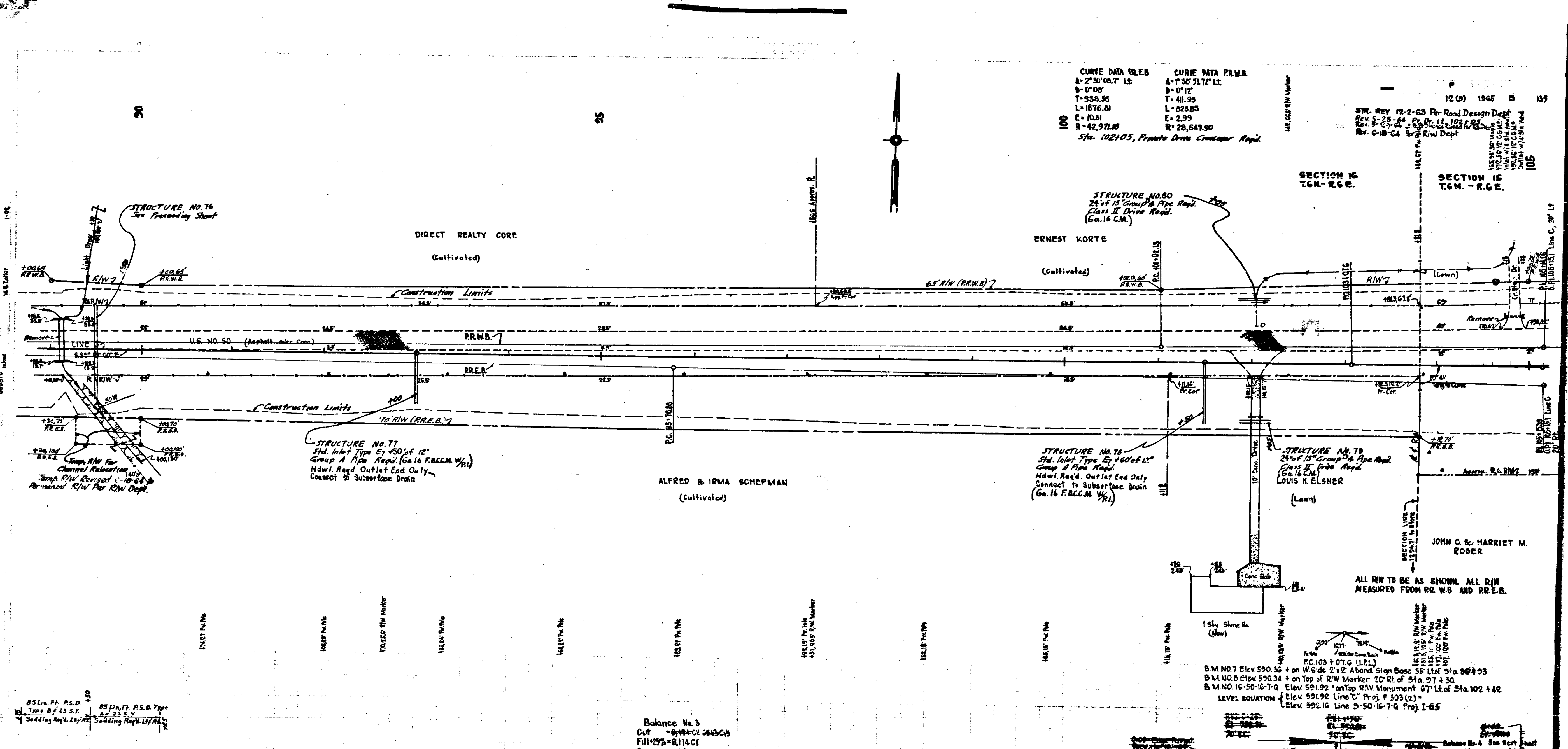
ALLOW TO BE AS SHOWN, R/W MEASURED FROM
 P.R.M.B. STA. 78+23 TO STA. 171+00
 AND FROM P.R.E.B. STA. 77+86.87 TO STA. 103+81.3 R.
 R.M. HIG. Elev. 593.85 Deed Spike in South Side of S' Walnut 160' Lt. of Sta. 77+180.



1-11-03
 F. C. 12

CURVE DATA P.R.E.B. CURVE DATA P.L.M.A.
 A=2°30'08.7" L.E. A=1°50'51.72" L.E.
 B=0°08' B=0°12'
 T=538.56 T=411.95
 L=1876.81 L=825.85
 E=10.81 E=2.99
 R=42,971.85 R=28,641.90
 Sta. 102105, Private Drive Construction Report

12 (D) 1945 D 155
 STR. REV 12-2-63 Per Road Design Dept
 Rev. 3-25-64 Per Dr. Lt. 102105
 Rev. 8-14-64 Per Dr. Lt. 102105
 Rev. 8-18-64 Per R/W Dept



STATION	INLET P.C. No.	INLET P.U. No.	INLET P.W. Number	INLET P.W. No.	INLET P.W. No.	INLET P.W. No.	INLET P.W. No.	INLET P.W. No.	INLET P.W. No.	INLET P.W. No.	INLET P.W. No.
100											
101											
102											
103											
104											
105											

104 11143 105
 12 (D) C 15

CURVE DATA P.R.E.B.

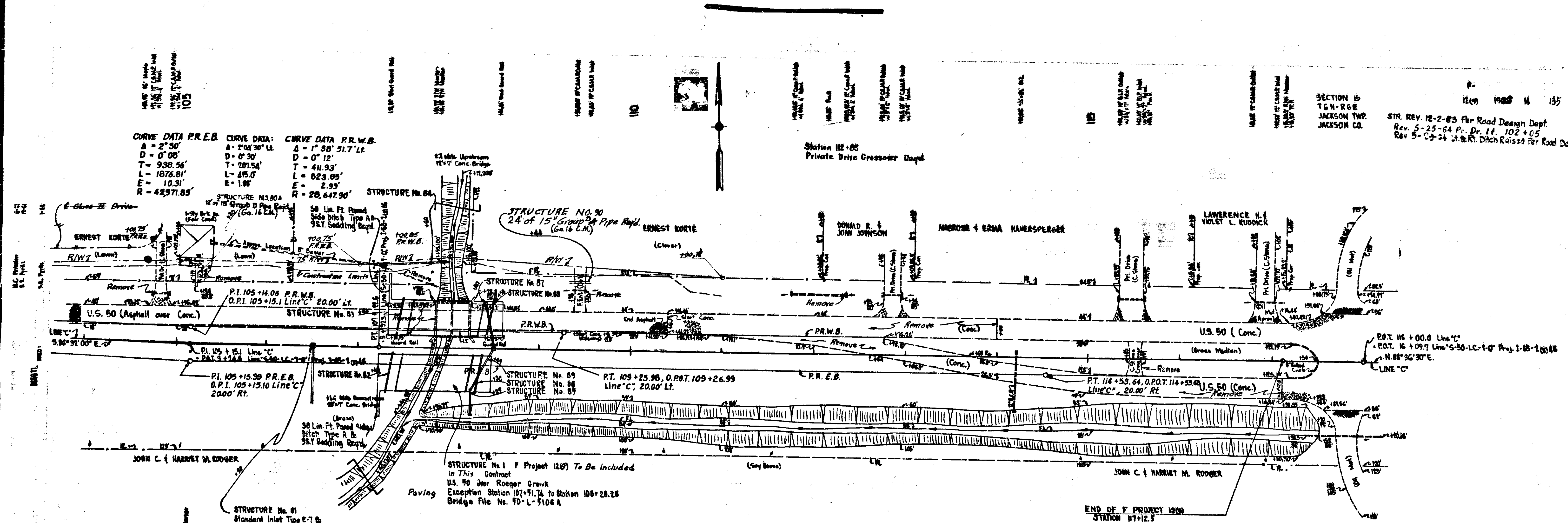
A = 2° 30'
D = 0° 00'
T = 938.56'
L = 1876.81'
E = 10.91'
R = 42571.85'

CURVE DATA:

A = 2° 04' 30" LL
D = 0° 30'
T = 1071.54'
L = 185.0'
E = 1.98'

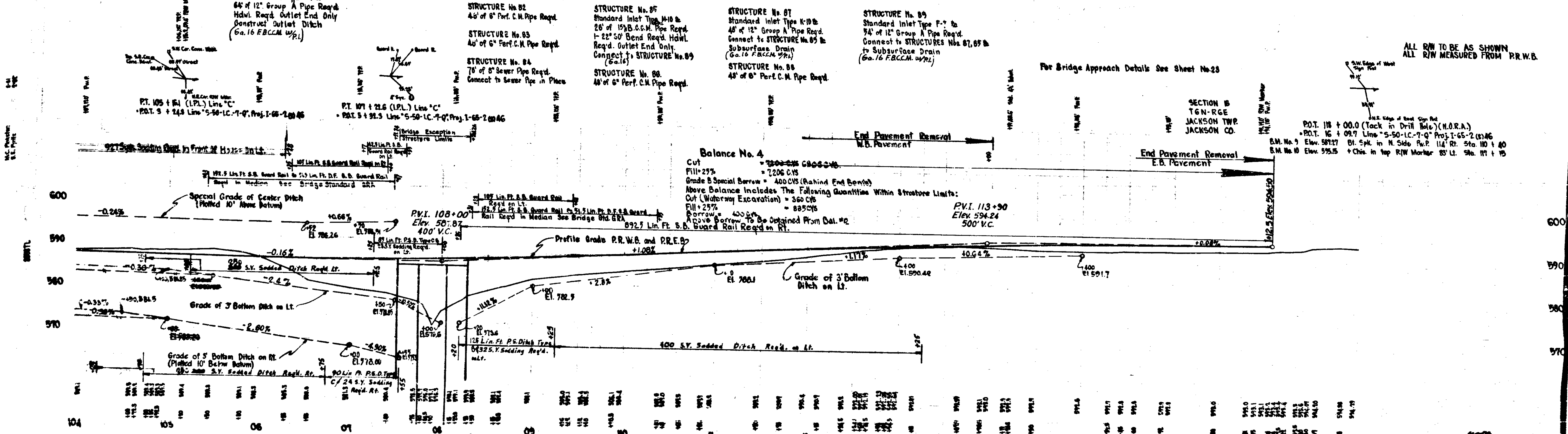
CURVE DATA P.R.W.B.

A = 1° 30' 51.7" LR
D = 0° 12'
T = 411.93'
L = 823.89'
E = 2.99'
R = 20,647.90'



- STRUCTURE No. 81 Standard Inlet Type E-7 to 64' of 12" Group A Pipe Rqtd. Hdwl. Rqtd. Outlet End Only. Construct Outlet Ditch (6x16 F.B.C.M. w/1).
- STRUCTURE No. 82 48' of 6' Perf. C.M. Pipe Rqtd.
- STRUCTURE No. 83 48' of 6' Perf. C.M. Pipe Rqtd.
- STRUCTURE No. 84 78' of 8' Sewer Pipe Rqtd. Connect to Sewer Pipe in Place.
- STRUCTURE No. 85 Standard Inlet Type F-7 to 94' of 12" Group A Pipe Rqtd. Connect to STRUCTURE No. 87 to Subsurface Drain (6x16 F.B.C.M. w/1).
- STRUCTURE No. 86 48' of 6' Perf. C.M. Pipe Rqtd.
- STRUCTURE No. 87 Standard Inlet Type K-10 to 48' of 12" Group A Pipe Rqtd. Connect to STRUCTURE No. 85 to Subsurface Drain (6x16 F.B.C.M. w/1).

Balance No. 4
Cut = 7500.00 C.M. CROSSING
Fill = 275
Grade B Special Barrow = 7206 C.M.
Grade B Special Barrow = 400 C.M. (Behind End Berms)
Above Balance Includes the Following Quantities Within Structure Limits:
Cut (Waterway Excavation) = 350 C.M.
Fill = 275
Barrow = 400 C.M.
Above Barrow to be Obtained From Dal. #2
Cut (Waterway Excavation) = 350 C.M. Guard Rail Rqtd on Rt.



END OF F PROJECT 1200
STATION 87+12.5

SECTION 15
TGN-RGE
JACKSON TWP.
JACKSON CO.

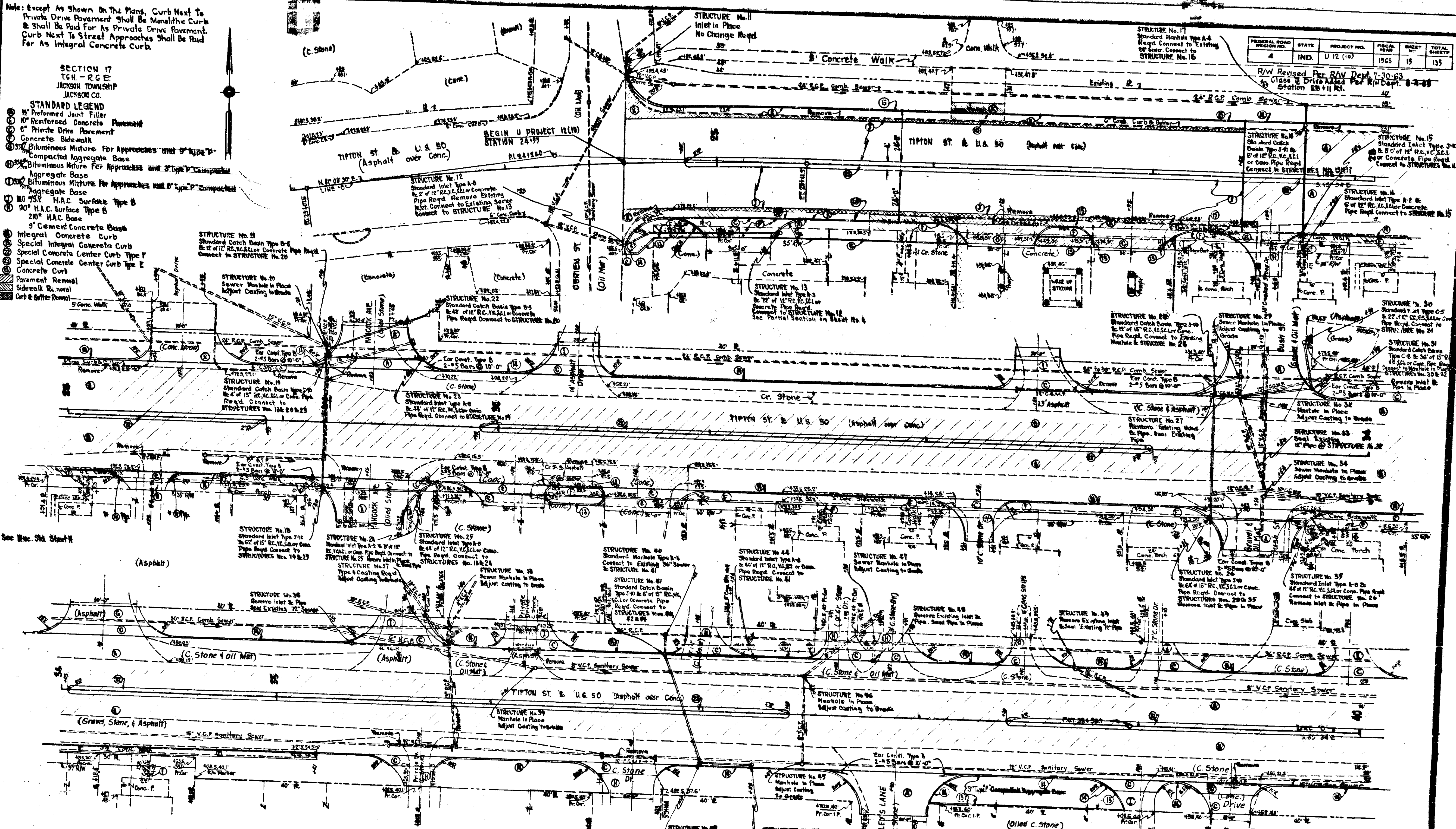
POT. 118 + 00.0 (Tack in Drill Hole) (N.A.R.A.)
POT. 16 + 09.7 Line "S-50-1C-7-Q" Proj. 1-65-2 (2) 146
B.M. No. 9 Elev. 591.17 Bl. 5' in N. Side P.W. 114' Bl. 5' to 10 + 40
B.M. No. 10 Elev. 595.15 + Chis. in top R/W Marker 85' Lt. Sta. 117 + 15

1-11-63
F. 1200' C.

Note: Except As Shown On The Plans, Curb Next To Private Drive Pavement Shall Be Manolithic Curb & Shall Be Paid For As Private Drive Pavement. Curb Next To Street Approaches Shall Be Paid For As Integral Concrete Curb.

SECTION 17
TCH - RCE
JACKSON TOWNSHIP
JACKSON CO.

- STANDARD LEGEND**
- ① 1" Performed Joint Filler
 - ② 10" Reinforced Concrete Pavement
 - ③ 6" Private Drive Pavement
 - ④ Concrete Sidewalk
 - ⑤ Bituminous Mixture For Approaches and "Type" P Compacted Aggregate Base
 - ⑥ Bituminous Mixture For Approaches and "Type" P Compacted Aggregate Base
 - ⑦ 18" H.A.C. Surface Type B
 - ⑧ 90" H.A.C. Surface Type B
 - ⑨ 210" H.A.C. Base
 - ⑩ 3" Cement Concrete Deck
 - ⑪ Integral Concrete Curb
 - ⑫ Special Integral Concrete Curb
 - ⑬ Special Concrete Center Curb Type F
 - ⑭ Special Concrete Center Curb Type E
 - ⑮ Concrete Curb
 - ⑯ Pavement Removal
 - ⑰ Sidewalk Removal
 - ⑱ Curb & Gutter Removal



FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
4	IND.	U 12 (10)	156	157

RAW Revised Per RAW Dept. 7-30-53
to Class B Drive Advt. Per Dep't. 8-4-55
Station 25+11 R.L.

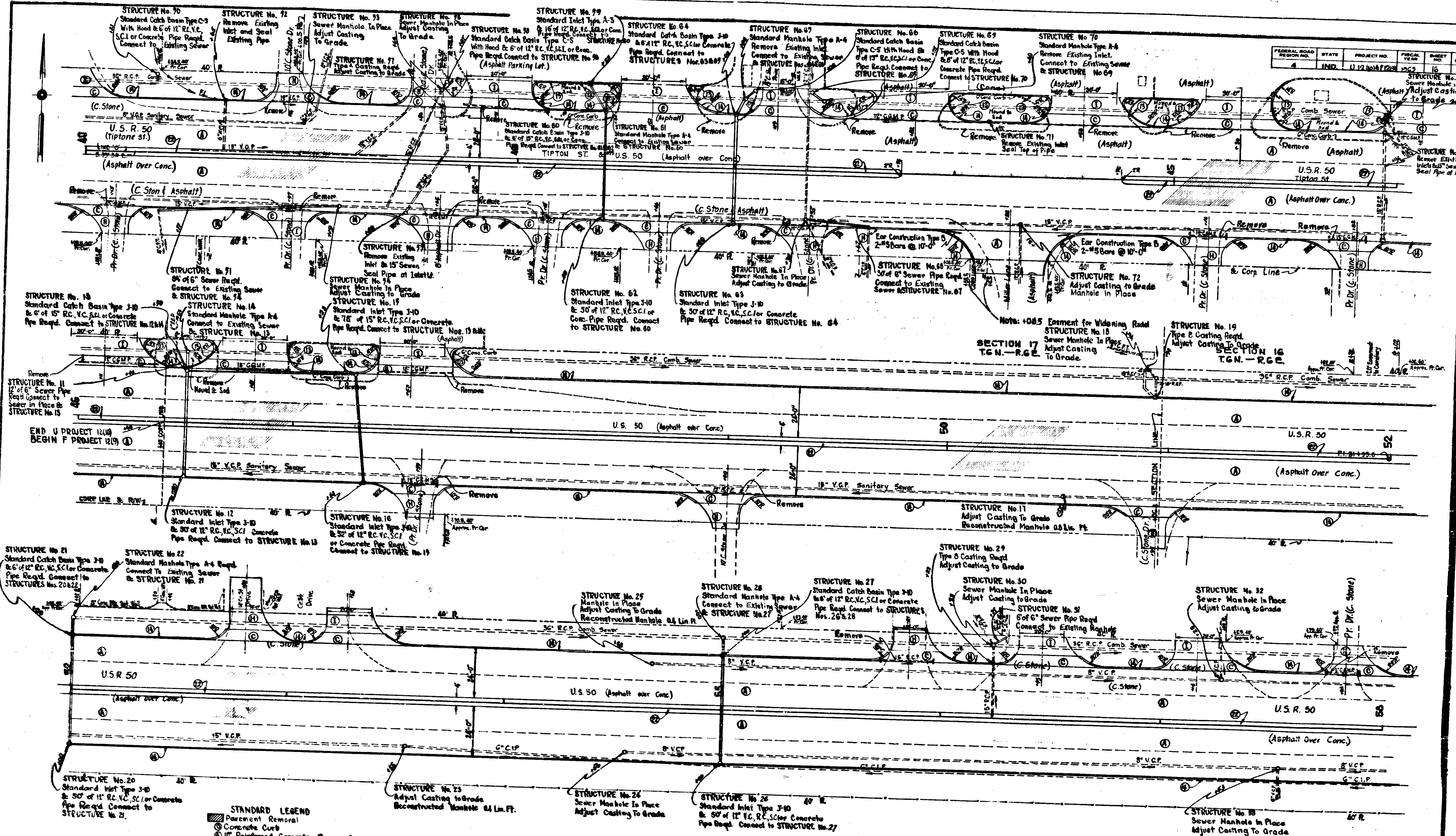
DETAILS

Scale: 1" = 20'

November 6, 1961

PROJECT NO.	LINE	SHEET	TOTAL SHEETS	FILE
U-12 (10)	"C"	157	157	

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	U-1210477201	1962	13	137



- STANDARD LEGEND**
- ⊖ Pavement Removal
 - ⊙ Concrete Curb
 - ⊙ 12" Reinforced Concrete Pavement
 - ⊙ 6" Private Drive Pavement
 - ⊙ 330# Bit. Mixture for Approaches and 6" Type P Comp. Aggregate Base
 - ⊙ Integral Concrete Curb
 - ⊙ Special Concrete Center Curb Type F
 - ⊙ 230# Bit. Mixture for Approaches and 3" Type P Comp. Aggregate Base

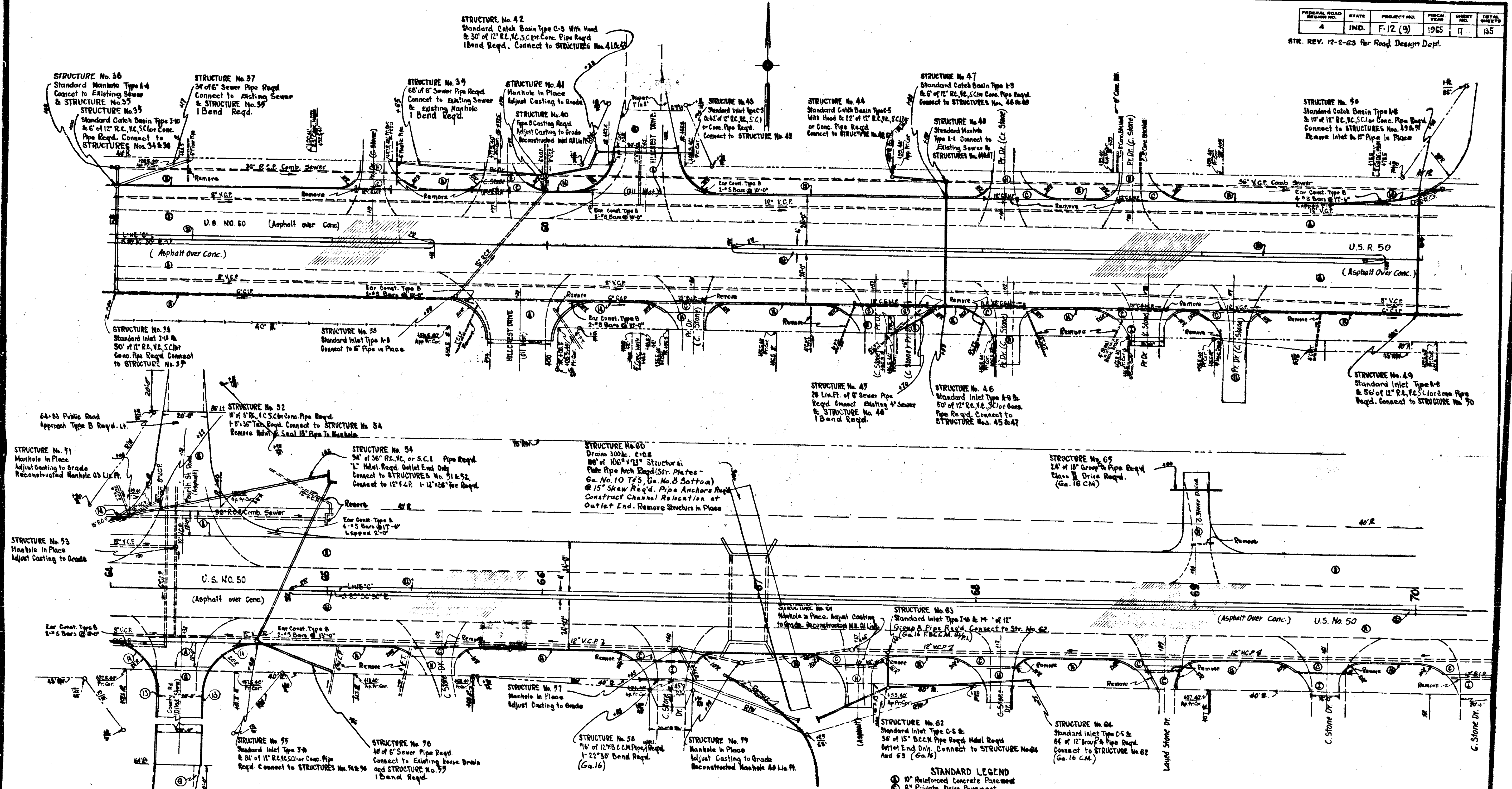
DETAILS
Scale: 1" = 20'

Note: See Curb Note on Sheet No. 15

PROJECT NO.	LINE	SHEET	TOTAL SHEETS
U-1210477201	C	13	137

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-12 (9)	1965	11	155

STR. REV. 12-2-63 Per Road Design Dept.



STRUCTURE No. 91
Manhole In Place
Adjust Casting to Grade
Reconstructed Manhole 60 Dia. Ft.

STRUCTURE No. 94
Standard Inlet Type A-8
50' of 12" R.C. V.C. Pipe
Conn. Pipe Req'd. Connect to
STRUCTURE No. 37

STRUCTURE No. 95
Manhole In Place
Adjust Casting to Grade

STRUCTURE No. 96
Standard Inlet Type C-5
60' of 12" R.C. V.C. Pipe
Req'd. Connect to STRUCTURES No. 94 & 95

STRUCTURE No. 97
Manhole In Place
Adjust Casting to Grade

STRUCTURE No. 98
Standard Inlet Type C-5
60' of 12" R.C. V.C. Pipe
Req'd. Connect to STRUCTURES No. 94 & 95

STRUCTURE No. 99
Manhole In Place
Adjust Casting to Grade
Reconstructed Manhole 60 Dia. Ft.

STRUCTURE No. 100
Standard Inlet Type C-5
60' of 12" R.C. V.C. Pipe
Req'd. Connect to STRUCTURES No. 94 & 95

STRUCTURE No. 101
Manhole In Place
Adjust Casting to Grade

STRUCTURE No. 102
Standard Inlet Type C-5
60' of 12" R.C. V.C. Pipe
Req'd. Connect to STRUCTURES No. 94 & 95

STRUCTURE No. 103
Manhole In Place
Adjust Casting to Grade

STRUCTURE No. 104
Standard Inlet Type C-5
60' of 12" R.C. V.C. Pipe
Req'd. Connect to STRUCTURES No. 94 & 95

STRUCTURE No. 105
Manhole In Place
Adjust Casting to Grade

STRUCTURE No. 106
Standard Inlet Type C-5
60' of 12" R.C. V.C. Pipe
Req'd. Connect to STRUCTURES No. 94 & 95

STRUCTURE No. 107
Manhole In Place
Adjust Casting to Grade

Note: See Curb Note on Sheet No. 15

- STANDARD LEGEND**
- ① 10" Reinforced Concrete Base
 - ② 6" Private Drive Pavement
 - ③ 330% Bit. Mixture For Approaches and 5" Type P Comp. Aggregate Base
 - ④ 330% Bit. Mixture For Approaches and 3" Type P Comp. Aggregate Base
 - ⑤ 330% Bit. Mixture For Approaches and 2" Type P Comp. Aggregate Base
 - ⑥ Concrete Curb
 - ⑦ Integral Concrete Curb
 - ⑧ Special Concrete Center Curb Type 7
 - ⑨ Pavement Removal

DETAILS
Scale: 1"=20'

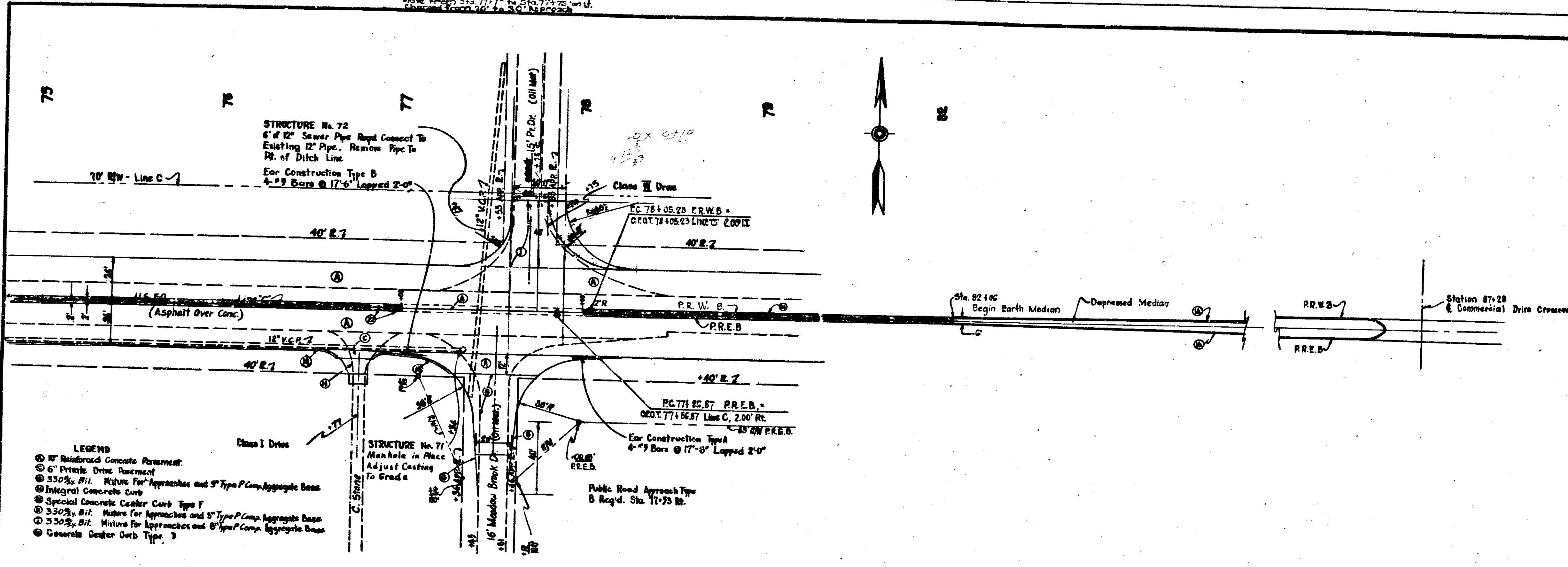
November 6, 1961

PROJECT NO.	LINE	SHEET	TOTAL SHEETS
F-12(9)	10	11	155

Class II Drive Revised 7-7-64
 Move From Sta. 77+75 to Sta. 77+75 on Lt.
 Change From 24" to 30" Approach

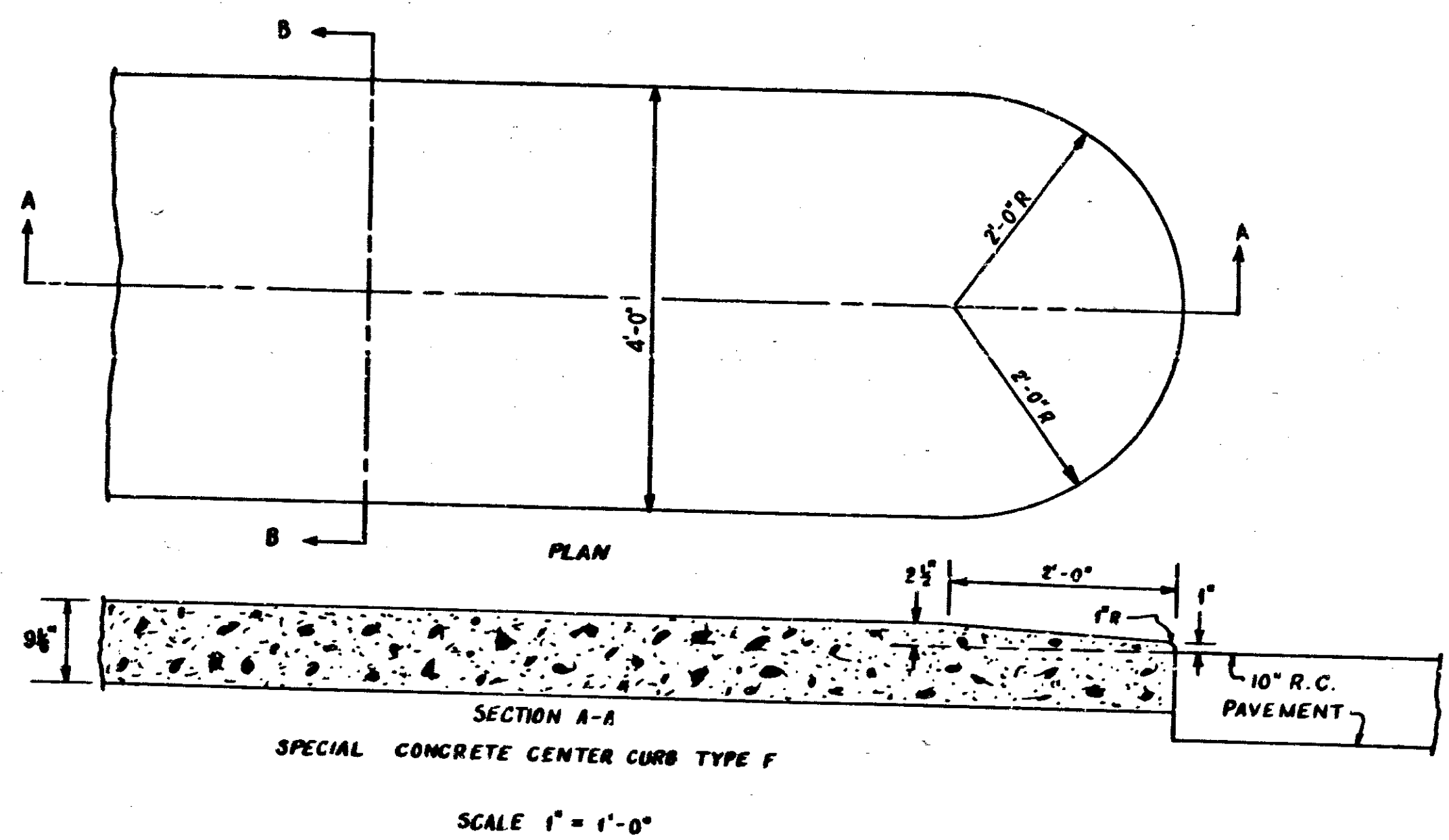
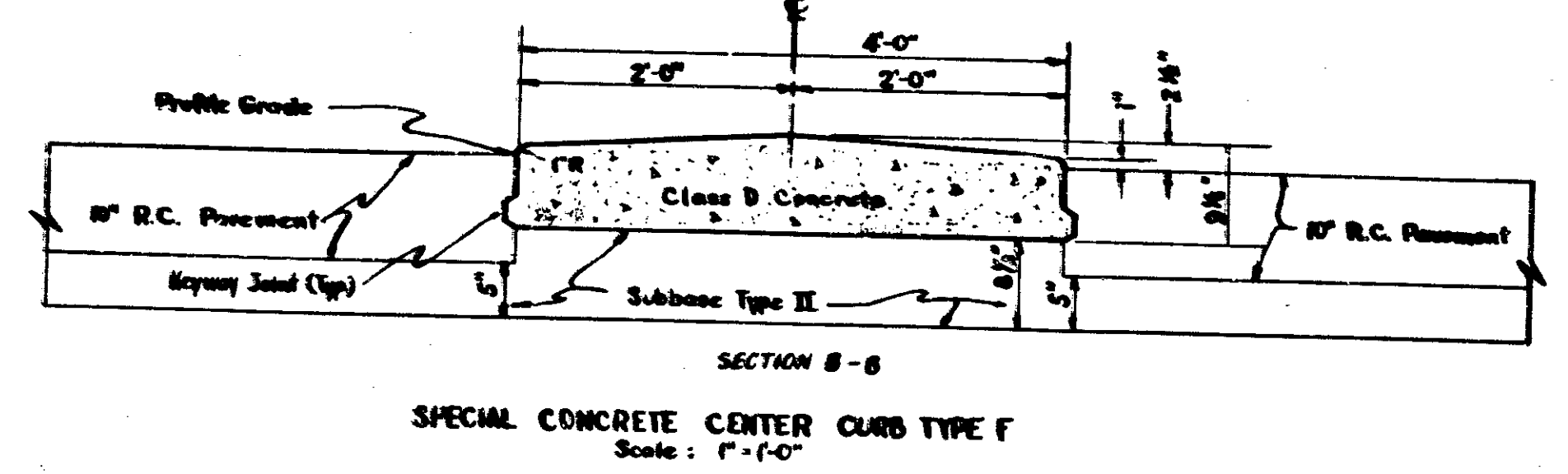
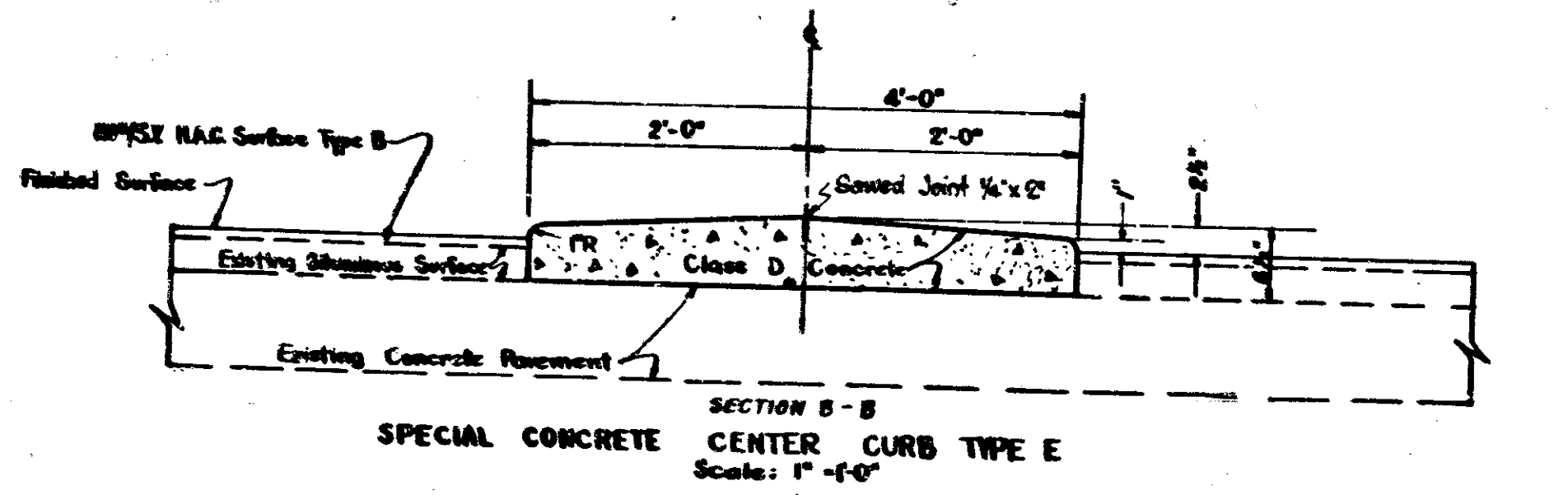
FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	SCALE	SHEET NO.	TOTAL SHEETS
4	IND.	U12(a) F100	1965	B	37

Revised 7-7-64



- LEGEND**
- ⊙ 12" Reinforced Concrete Placement
 - ⊙ 6" Private Drive Placement
 - ⊙ 350% Bit. Mix for Approaches and 5" Type P Comp. Aggregate Base
 - ⊙ Integral Concrete Curb
 - ⊙ Special Concrete Center Curb Type F
 - ⊙ 350% Bit. Mix for Approaches and 5" Type P Comp. Aggregate Base
 - ⊙ 550% Bit. Mix for Approaches and 6" Type P Comp. Aggregate Base
 - ⊙ Concrete Center Curb Type 3

MEADOW BROOK DRIVE INTERSECTION
 Scale: 1" = 30'-0"



DETAILS
 Scale: As Noted

November 6, 1961

PROJECT NO.	LINE	SCALE	SHEET NO.	TOTAL SHEETS
U12(a) F100	C	B	15	37

APPROACH TABLE

FEDERAL ROAD DISTRICT NO. 4 STATE IND. PROJECT NO. F-12(10) FISCAL YEAR 1965 SHEET NO. 29 TOTAL SHEETS 135

Main data table with columns: LOCATION, DESCRIPTION, CLEARING (CUT, FILL), WIDTH, RADIUS, LENGTH, DISTANCE BEYOND R/W LINE, TYPE P COMPACTED AGGREGATE BASE (3', 6', 9'), BITUMINOUS MIXTURE FOR PAVEMENT, PAVEMENT REMAIN, CONCRETE CURB, CURB REMAIN, CONTRACTION JOINTS TYPE D-1, REINFORCED CONCRETE PAVEMENT U', PRIVATE DRIVE PAVEMENT U', P' PREFORMED JOINT FILLER, P' PREFORMED EXPANSION JOINT WITH LOAD TRANSFER, SURFACE TYPE II, CEMENT CONCRETE FOR CURBS, REINFORCING STEEL FOR PAVEMENT, INTEGRAL CONCRETE CURB.

TREE REMOVAL table with columns: STATION, DIAMETER, CIRCUMFERENCE. Includes entries for G0+20 LL (12", 38") and G4+48 RL (12", 38") with a total circumference of 76".

* RIGHT-OF-ENTRY REQUIRED FOR CONSTRUCTION BEYOND R/W LINE

DETAILS

November 4, 1961

PROJECT NO. F-12(10) LINE NO. C SHEET NO. 29 TOTAL SHEETS 135

APPROACH TABLE

FEDERAL ROAD DISTRICT NO.	STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-1219	21	139

Rev. 3-4-64 Pr. Dr. of 87* 28 Per R/W Dept.
 Rev. 5-25-64 Pr. Dr. L.A. 102* 05 Per R/W Dept.
 Revised 7-7-64 Class II Dr. & L.S. 17' 15" Per R/W Dept.

LOCATION	DESCRIPTION	EXCAVATIONS		WIDTH	RADI	LENGTH	DISTANCE BEYOND R/W LINE*	DESIGN DATA AND QUANTITIES BASED ON MAX. OF 10% GRADE EXCEPT AS NOTED									TYPE P COMPACTED AGGREGATE BASE		10" REINFORCED CONCRETE PAVEMENT		REINFORCING STEEL		INTEGRAL CONCRETE CURBS		BITUMINOUS MIXTURE FOR DRIVE		CONSTRUCTION JOINTS TYPE D-1		PNEUMATIC REMMVAL		PRIVATE DRIVE PAVEMENT		SUBBASE TYPE I		
		CUT CYS	FILL CYS					3"	6"	9"	SYL	TONS	SYL	TONS	SYL	TONS	SYL	TONS	SYL	TONS	SYL	TONS	SYL	TONS	SYL	TONS	SYL	TONS	SYL	TONS	SYL	TONS	SYL	TONS	
69-00 LT	CLASS II	7	35	12'	200.0'	39		72.3	10.0	72.3	12.05																								
77-53 RT	MEADOWBROOK							191.0	21.6	212		1.915	60.5	191.0	73.70	98.7	148	48	0.19	22															
227-20 LT	CLASS II	7	11	20'	408.20'	40		181.5	14.0	195.5		12.2	13.9																						
87-20 RT	CLASS II	27	227	12'	208.15'	46		81.6	4.0	85.6																									
87-20 LT	CLASS IV	8	37	20'	208.15'	44		80.3	3.0	83.3																									
102-05 LT	CLASS II	215	4	12'	208.15'	45		80.3	11.0	91.3		11.0	39.0																						
102-05 RT	CLASS II	3	40	10'	208.15'	30		12.7	2.0	14.7																									
102-44 LT	CLASS V	28	12	12'	208.15'	41																													
112-45 LT	CLASS II	3	9	12'	208.15'	34		65.6	0.5	66.1																									
Mail Box Approaches (7)								230.0	34.70	264.7																									
TOTALS		240	231					872.3	161.6	1033.9			20.5	77.5	90.7	148	48	0.48	22	67	62.5	16.5													

* RIGHT-OF-ENTRY REQUIRED FOR CONSTRUCTION BEYOND R/W LINE

DETAILS

November 6, 1961

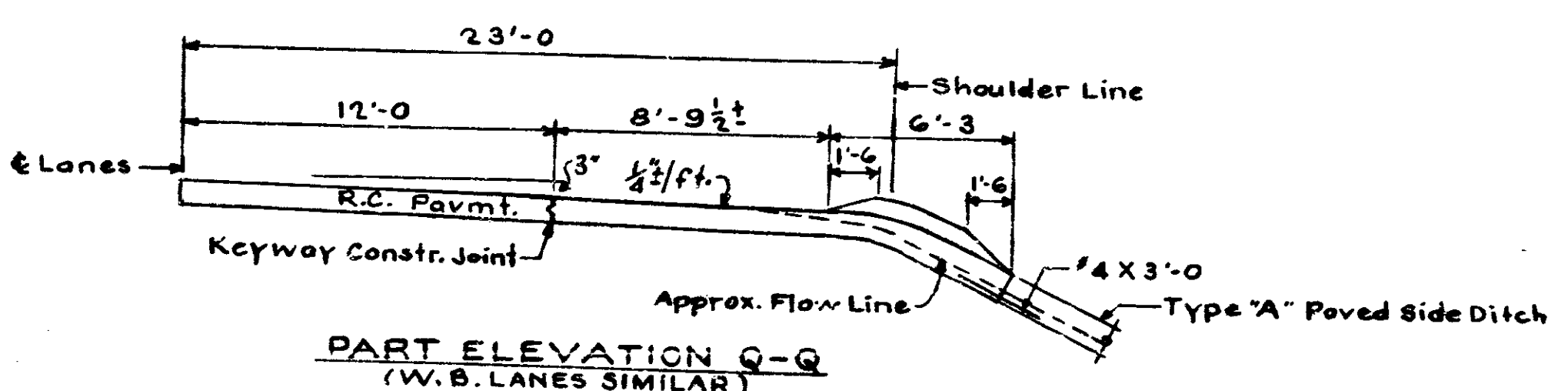
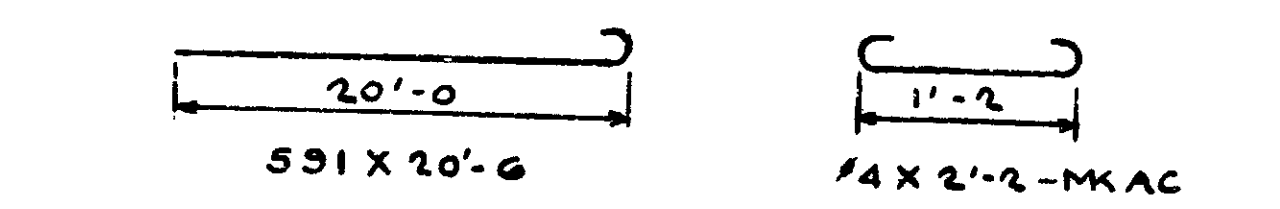
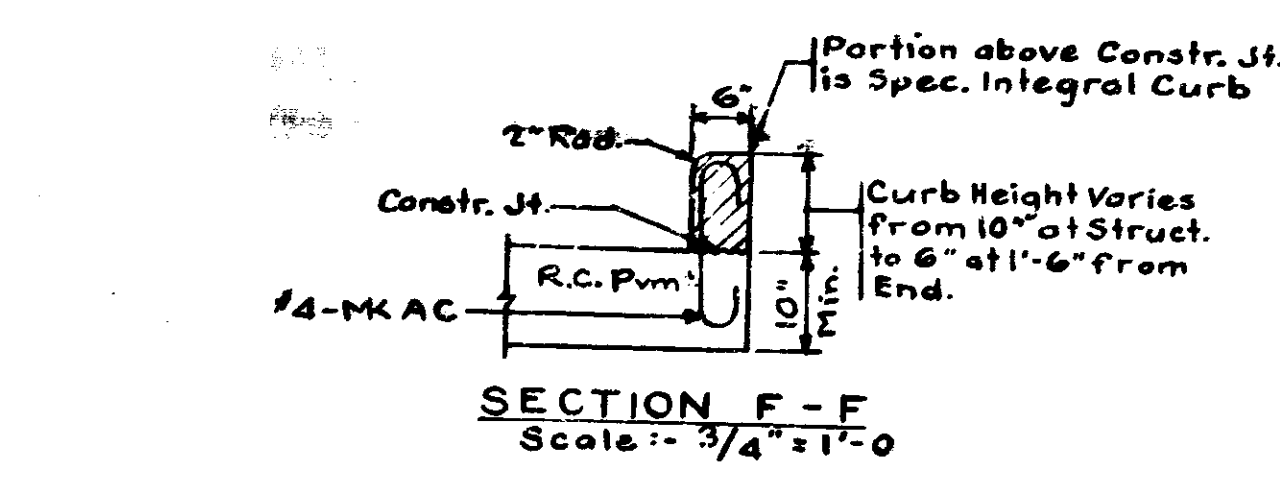
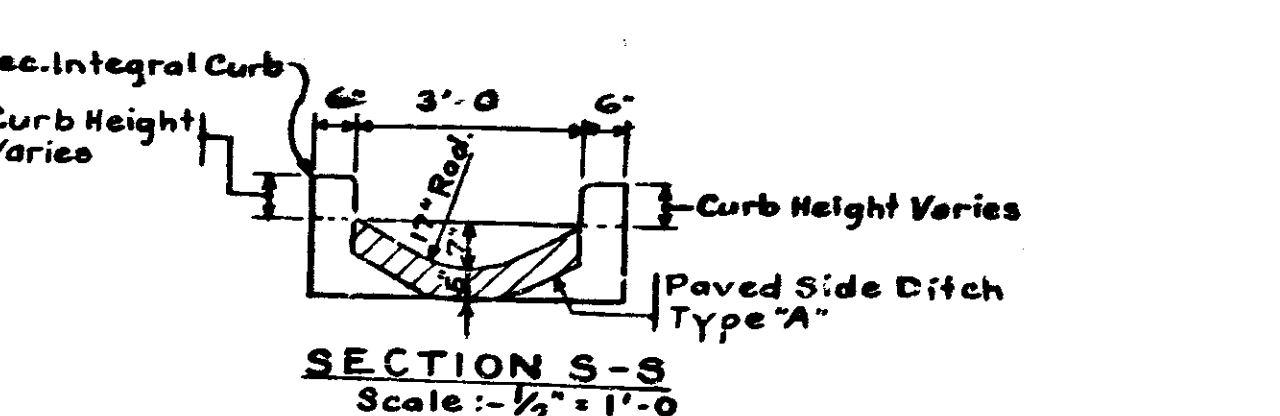
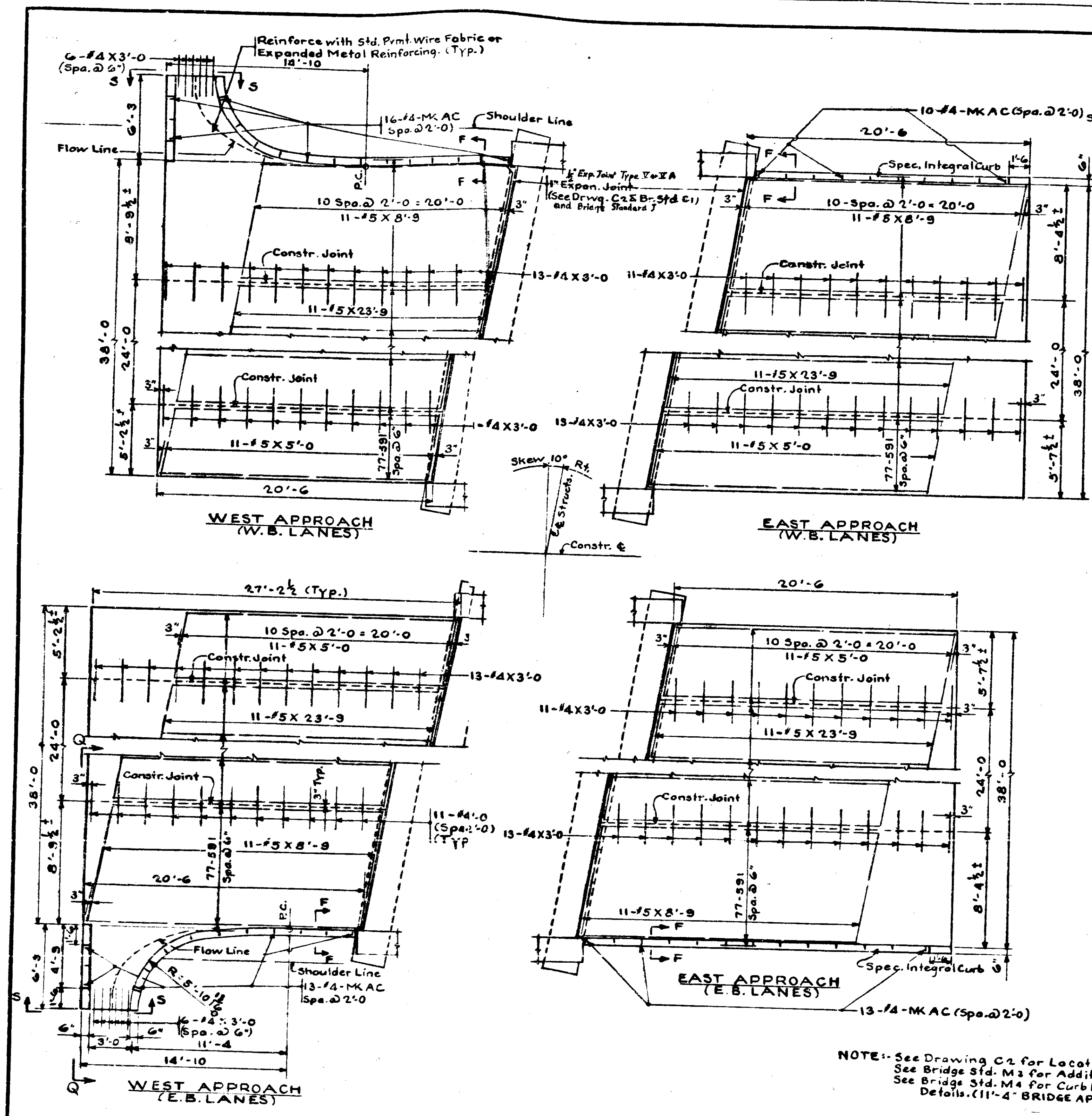
PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
1-1219	P.R.	21	139	

BRIDGES OVER 20' SPAN				
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	TOTAL SHEETS
4	IND.	F-12(9)	1906	23

BILL OF MATERIALS
TOTAL FOR
4 R.C. BRIDGE APPROACHES
REINFORCING STEEL

SIZE MARK	NO. OF BARS	LENGTH	WEIGHT LBS.
#5	308	20'-6"	
#5	44	23'-9"	
#5	44	8'-9"	
#5	44	5'-0"	
Total	75	5	8300
#4-MKAC	52	2'-2"	
#4	108	3'-0"	
Total	14	4	292
TOTAL STEEL			8598

R.C.C. Pavmt. (10") = 416 Sys.
Special Integral Curb = 105 Lft.
1" Exp. Joint Type "A" = 161 Lft.
1" Preformed Exp. Joint W/Load Transfer = 200 Lft.



NOTE: See Drawing C2 for Location of Inlets at east end of Structures.
See Bridge Std. M2 for Additional R.C. Bridge Approach Details.
See Bridge Std. M4 for Curb Line Offsets and Additional Details. (11'-4" BRIDGE APPROACH TURNOUT DETAILS)

R.C. BRIDGE APPROACHES
INDIANA STATE HIGHWAY COMMISSION

SCALE: 1/4" = 1'-0" (UNLESS NOTED) 196
RECOMMENDED FOR APPROVAL: _____
DRAWING OF _____
PROJECT: F-12(9)
BRIDGE CONTRACT NO. _____
BRIDGE FILE: 50-L-5106

DESIGNED: _____
DRAWN: _____
TRACED: _____

STRUCTURE DATA

FEDERAL ROAD DISTRICT NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	IND.	U-12(LM)	24	135

STRUCTURE NUMBER	LOCATION	DESCRIPTION	LENGTH L'	SKEW	COVER	FLOW LINE		CONCRETE CLASS 'D'	SPECIAL REINFORCING GRAPES	REINFORCING STEEL	REMARKS	PLANS ON SHEET NO.
						UP EL. STREAM	DOWN EL. STREAM					
11	24+58.11	Standard Inlet Type A-8										
12	24+57.41	R.C. V.C. SCL or Conc. Pipe Reg'd	2'								Inlet in Place. No Change Req'd.	
13	27+30.01	Standard Inlet Type A-8									Remove Existing Inlet. Connect to Existing Sewer & STRUCTURE No. 13	
14	27+69.11	R.C. V.C. SCL or Conc. Pipe Reg'd	12'								Connect to STRUCTURE No. 12	
15	27+69.11	Standard Inlet Type A-1									Connect to STRUCTURE No. 17	
16	27+69.11	R.C. V.C. SCL or Conc. Pipe Reg'd	30'								Connect to STRUCTURES Nos. 14 & 16	
17	27+69.11	Standard Catch Basin Type J-10										
18	27+69.11	R.C. V.C. SCL or Conc. Pipe Reg'd	6'								Connect to STRUCTURES Nos. 18 & 17	
19	29+20.11	Standard Manhole Type A-4									Connect to Existing Sewer & STRUCTURE No. 19	
20	29+20.11	R.C. V.C. SCL or Conc. Pipe Reg'd	6'								Connect to STRUCTURES Nos. 19 & 29	
21	29+20.11	Standard Catch Basin Type J-10									Connect to STRUCTURES Nos. 19, 20 & 29	
22	29+20.11	R.C. V.C. SCL or Conc. Pipe Reg'd	4'								Connect to STRUCTURES Nos. 19, 20 & 29	
23	29+20.11	Sewer Manhole in Place									Adjust Casting to Grade	
24	29+16.11	Standard Catch Basin Type J-10									Connect to STRUCTURE No. 20	
25	29+16.11	R.C. V.C. SCL or Conc. Pipe Reg'd	12'								Connect to STRUCTURE No. 20	
26	29+16.11	Standard Inlet Type A-8									Connect to STRUCTURE No. 20	
27	29+16.11	R.C. V.C. SCL or Conc. Pipe Reg'd	48'								Connect to STRUCTURE No. 19	
28	29+16.11	Standard Inlet Type A-1									Connect to STRUCTURE No. 27. Remove Inlet in Place & Seal Pipe	
29	29+16.11	R.C. V.C. SCL or Conc. Pipe Reg'd	8'								Connect to STRUCTURES Nos. 18 & 24	
30	33+81.11	Standard Inlet Type J-10										
31	33+30.11	R.C. V.C. SCL or Conc. Pipe Reg'd	60'								Connect to STRUCTURES Nos. 28 & 39. Remove Inlet & Pipe in Place	
32	33+30.11	Seal Existing Pipe									Remove Existing Hdwl. & Pipe	
33	33+32.11	Standard Catch Basin Type J-10										
34	33+42.11	R.C. V.C. SCL or Conc. Pipe Reg'd	12'								Connect to Existing Manhole & STRUCTURE No. 26	
35	33+42.11	Sewer Manhole in Place									Adjust Casting to Grade	
36	33+71.11	Standard Inlet Type C-7										
37	33+71.11	R.C. V.C. SCL or Conc. Pipe Reg'd	22'								Connect to STRUCTURE No. 31	
38	33+76.11	Standard Catch Basin Type C-8										
39	33+42.11	R.C. V.C. SCL or Conc. Pipe Reg'd	36'								Connect to Manhole in Place & STRUCTURE Nos. 30 & 32. Remove Inlet & Pipe in Place	
40	33+30.11	Manhole in Place									Adjust Casting to Grade	
41	33+30.11	Seal Existing Pipe									Seal Existing 12" Pipe @ STRUCTURE No. 32	
42	33+34.11	Sewer Manhole in Place									Adjust Casting to Grade	
43	33+76.11	Standard Inlet Type A-8									Adjust Casting to Grade	
44	33+76.11	R.C. V.C. SCL or Conc. Pipe Reg'd	60'								Connect to STRUCTURE No. 26. Remove Inlet & Pipe in Place	
45	33+35.11	Seal Existing 12" Sewer									Remove Inlet & Pipe	
46	33+40.11	Type 4 Casting Reg'd									Adjust Casting to Grade	
47	33+40.11	Sewer Manhole in Place									Adjust Casting to Grade	
48	33+41.11	Sewer Manhole in Place									Adjust Casting to Grade	
49	33+41.11	Standard Manhole Type A-4									Adjust Casting to Grade	
50	36+82.11	Standard Catch Basin Type J-10									Connect to Existing 36" Sewer to STRUCTURE No. 41	
51	37+00.11	R.C. V.C. SCL or Conc. Pipe Reg'd	6'								Connect to STRUCTURES Nos. 40, 42 & 44	
52	37+24.11	Standard Inlet Type J-10									Connect to STRUCTURES Nos. 41 & 43	
53	37+24.11	R.C. V.C. SCL or Conc. Pipe Reg'd	72'								Connect to STRUCTURE No. 42	
54	37+24.11	Standard Inlet Type A-8									Connect to STRUCTURE No. 41	
55	37+24.11	R.C. V.C. SCL or Conc. Pipe Reg'd	22'								Adjust Casting to Grade	
56	37+41.11	Standard Inlet Type A-8									Connect to STRUCTURE No. 41	
57	37+41.11	R.C. V.C. SCL or Conc. Pipe Reg'd	48'								Adjust Casting to Grade	
58	37+41.11	Manhole in Place									Adjust Casting to Grade	
59	37+41.11	Sewer Manhole in Place									Adjust Casting to Grade	
60	37+41.11	Existing Inlet									Seal Pipe in Place	
61	37+41.11	Standard Catch Basin Type C-7 With Head									Remove Existing Inlet & Seal Existing 12" Pipe	
62	37+41.11	R.C. V.C. SCL or Conc. Pipe Reg'd	6'								Connect to Existing Sewer	
63	40+71.11	Sewer Pipe	84'								Connect to Existing Sewer & STRUCTURE No. 54	
64	40+71.11	Existing Inlet									Remove Existing Inlet and Seal Existing Pipe	
65	41+02.11	Sewer Manhole in Place									Adjust Casting to Grade	
66	41+02.11	Sewer Manhole in Place									Adjust Casting to Grade	
67	41+49.11	Existing Inlet									Adjust Casting to Grade	
68	41+49.11	Existing Inlet									Remove Existing Inlet & 15" Sewer. Seal Pipe at Inlet Lt.	
69	41+64.11	Sewer Manhole in Place									Adjust Casting to Grade	
70	41+65.11	Type 4 Casting Reg'd									Adjust Casting to Grade	
71	41+61.11	Standard Catch Basin Type C-7 With Head									Adjust Casting to Grade	
72	42+35.11	R.C. V.C. SCL or Conc. Pipe Reg'd	6'								Connect to STRUCTURE No. 56	
73	42+35.11	Standard Inlet Type A-8									Connect to STRUCTURE No. 60	
74	42+40.11	R.C. V.C. SCL or Conc. Pipe Reg'd	16'								Connect to STRUCTURES Nos. 59, 61 & 62	
75	42+40.11	Standard Catch Basin Type J-10									Connect to Existing Sewer & STRUCTURE No. 60	
76	42+40.11	R.C. V.C. SCL or Conc. Pipe Reg'd	6'								Connect to STRUCTURE No. 60	
77	42+40.11	Standard Manhole Type A-4									Connect to STRUCTURE No. 64	
78	42+40.11	Standard Inlet Type J-10										
79	42+40.11	R.C. V.C. SCL or Conc. Pipe Reg'd	30'								Connect to STRUCTURE No. 60	
80	43+00.11	Standard Inlet Type J-10									Connect to STRUCTURE No. 64	
81	43+00.11	R.C. V.C. SCL or Conc. Pipe Reg'd	30'									
82	43+00.11	Standard Catch Basin Type J-10									Connect to STRUCTURE No. 64	
83	43+00.11	R.C. V.C. SCL or Conc. Pipe Reg'd	6'								Connect to STRUCTURES Nos. 65 & 67	
84	43+04.11	Standard Manhole Type A-4									Remove Existing Inlet. Connect to Existing Sewer & STRUCTURE No. 67 & 68	

STRUCTURE NUMBER	LOCATION	SIZE	DESCRIPTION	LENGTH L'	SKEW	COVER	FLOW LINE		CONCRETE CLASS 'D'	SPECIAL REINFORCING GRAPES	REINFORCING STEEL	REMARKS	PLANS ON SHEET NO.	
							UP EL. STREAM	DOWN EL. STREAM						
68	43+04.11	12"	Standard Catch Basin Type C-7 With Head											
67	43+32.11	6"	R.C. V.C. SCL or Conc. Pipe Reg'd	6'							Connect to STRUCTURE No. 67			
66	43+41.11	6"	Sewer Manhole in Place								Adjust Casting to Grade			
69	43+31.11	6"	Standard Catch Basin Type C-7 With Head	50'							Connect to Existing Sewer & STRUCTURE No. 67			
70	43+40.11	12"	R.C. V.C. SCL or Conc. Pipe Reg'd	6'							Connect to STRUCTURE No. 70			
71	44+11.11	12"	Existing Inlet								Remove Existing Inlet. Connect to Existing Sewer & STRUCTURE No. 69			
72	44+31.11	12"	Manhole in Place								Adjust Casting to Grade			
73	43+94.11	12"	Sewer Manhole in Place								Adjust Casting to Grade			
74	43+94.11	12"	Existing Inlet								Remove Existing Inlet & 15" Sewer. Seal Pipe at Manhole			
Totals											10	73		

STRUCTURE DATA

STR. REV. 12-2-63 For Road Design
 FEDERAL ROAD REGION NO. 4 STATE IND. PROJ. NO. F-12(9) FISCAL YEAR 1965 SHEET NO. 25 TOTAL SHEETS 135

STRUCTURE NUMBER	LOCATION	DESCRIPTION	LENGTH "L"	SKEW	COVER	FLOW LINE		CONCRETE CLASS 'D'	SPECIAL BORROW GRADE #	REINFORCING STEEL	REMARKS	PLANS ON SHEET NO.
						UP STREAM ELEV.	DOWN STREAM ELEV.					
11	46444.14	6" Sewer Pipe Regd.	12'				797.00				Connect to Sewer in Place & STRUCTURE No. 10	
12	46450.91	Standard Inlet Type 3-10	12'				797.00				Connect to STRUCTURE No. 13	
13	46450.91	Standard Catch Basin Type 3-10	6'				796.83				Connect to STRUCTURE No. 13	
14	46450.91	R.C. V.C. 18" or Conc. Pipe Regd.	6'				799.49				Connect to STRUCTURES Nos. 12 & 14	
15	47128.17	Standard Manhole Type A-4	6'				793.76				Connect to Existing Sewer & STRUCTURE No. 13	
16	47133.87	Standard Inlet Type 3-10	12'				795.59				Connect to STRUCTURES Nos. 15 & 16	
17	47133.87	R.C. V.C. 18" or Conc. Pipe Regd.	12'				796.49				Connect to STRUCTURE No. 17	
18	70194.17	Reconstructed Manhole 0.5 Lin. Ft.									Manhole in Place	
19	70194.17	Sewer Manhole in Place									Manhole in Place	
20	72106.87	Type B Casting Regd.	6'				794.70				Adjust Casting to Grade	
21	72106.87	Standard Inlet Type 3-10	12'				795.00				Connect to STRUCTURE No. 21	
22	72106.87	R.C. V.C. 18" or Conc. Pipe Regd.	6'				794.21				Connect to STRUCTURES Nos. 20 & 22	
23	72106.87	Standard Manhole Type A-4	6'				792.04				Connect to Existing Sewer & STRUCTURE No. 21	
24	72106.87	Reconstructed Manhole 0.4 Lin. Ft.									Manhole in Place	
25	72106.87	Sewer Manhole in Place									Manhole in Place	
26	72106.87	Adjust Casting to Grade									Adjust Casting to Grade	
27	72106.87	Reconstructed Manhole 0.4 Lin. Ft.									Manhole in Place	
28	72106.87	Standard Inlet Type 3-10	12'				793.29				Connect to STRUCTURE No. 27	
29	72106.87	R.C. V.C. 18" or Conc. Pipe Regd.	6'				792.80				Connect to STRUCTURES Nos. 28 & 28	
30	72106.87	Standard Catch Basin Type 3-10	6'				790.17				Connect to Existing Sewer & STRUCTURE No. 27	
31	72106.87	Type B Casting Regd.	6'				789.38				Adjust Casting to Grade	
32	72106.87	Sewer Manhole in Place									Adjust Casting to Grade	
33	72106.87	Standard Inlet Type 3-10	12'				798.1				Connect to Existing Manhole	
34	72106.87	Sewer Manhole in Place									Adjust Casting to Grade	
35	72106.87	Standard Inlet Type 3-10	12'				791.92				Adjust Casting to Grade	
36	72106.87	R.C. V.C. 18" or Conc. Pipe Regd.	6'				790.0				Connect to STRUCTURE No. 35	
37	72106.87	Standard Catch Basin Type 3-10	6'				789.77				Connect to STRUCTURE Nos. 34 & 36	
38	72106.87	R.C. V.C. 18" or Conc. Pipe Regd.	6'				789.1				Connect to Existing Sewer & STRUCTURE No. 37	
39	72106.87	Standard Inlet Type 3-10	12'				794.3				Connect to Existing Sewer & STRUCTURE No. 37	
40	72106.87	Sewer Manhole in Place					793.7				Connect to 18" Pipe in Place	
41	72106.87	Type B Casting Regd.	6'				792.00				Connect to Existing Sewer & Existing Manhole	
42	72106.87	Manhole in Place									Adjust Casting to Grade. Reconstructed Inlet 0.9 Lin. Ft.	
43	72106.87	Standard Inlet Type 3-10	12'				787.73				Adjust Casting to Grade	
44	72106.87	Standard Catch Basin Type 3-10	6'				798.1				Adjust Casting to Grade	
45	72106.87	R.C. V.C. 18" or Conc. Pipe Regd.	6'				798.1				Connect to STRUCTURES Nos. 41 & 45	
46	72106.87	Standard Inlet Type 3-10	12'				798.0				Connect to STRUCTURE No. 42	
47	72106.87	R.C. V.C. 18" or Conc. Pipe Regd.	6'				798.0				Connect to STRUCTURE No. 42	
48	72106.87	Standard Catch Basin Type 3-10	6'				798.0				Connect to STRUCTURE No. 42	
49	72106.87	R.C. V.C. 18" or Conc. Pipe Regd.	6'				798.0				Connect to STRUCTURE No. 42	
50	72106.87	Standard Inlet Type 3-10	12'				798.0				Connect to STRUCTURE No. 42	
51	72106.87	R.C. V.C. 18" or Conc. Pipe Regd.	6'				798.0				Connect to STRUCTURE No. 42	
52	72106.87	Standard Inlet Type 3-10	12'				798.0				Connect to STRUCTURE No. 42	
53	72106.87	R.C. V.C. 18" or Conc. Pipe Regd.	6'				798.0				Connect to STRUCTURE No. 42	
54	72106.87	Standard Inlet Type 3-10	12'				798.0				Connect to STRUCTURE No. 42	
55	72106.87	R.C. V.C. 18" or Conc. Pipe Regd.	6'				798.0				Connect to STRUCTURE No. 42	
56	72106.87	Standard Inlet Type 3-10	12'				798.0				Connect to STRUCTURE No. 42	
57	72106.87	R.C. V.C. 18" or Conc. Pipe Regd.	6'				798.0				Connect to STRUCTURE No. 42	
58	72106.87	Standard Inlet Type 3-10	12'				798.0				Connect to STRUCTURE No. 42	
59	72106.87	R.C. V.C. 18" or Conc. Pipe Regd.	6'				798.0				Connect to STRUCTURE No. 42	
60	72106.87	Standard Inlet Type 3-10	12'				798.0				Connect to STRUCTURE No. 42	
61	72106.87	R.C. V.C. 18" or Conc. Pipe Regd.	6'				798.0				Connect to STRUCTURE No. 42	
62	72106.87	Standard Inlet Type 3-10	12'				798.0				Connect to STRUCTURE No. 42	
63	72106.87	R.C. V.C. 18" or Conc. Pipe Regd.	6'				798.0				Connect to STRUCTURE No. 42	
64	72106.87	Standard Inlet Type 3-10	12'				798.0				Connect to STRUCTURE No. 42	
65	72106.87	R.C. V.C. 18" or Conc. Pipe Regd.	6'				798.0				Connect to STRUCTURE No. 42	

STRUCTURE NUMBER	LOCATION	DESCRIPTION	LENGTH "L"	SKEW	COVER	FLOW LINE		CONCRETE CLASS 'D'	SPECIAL BORROW GRADE #	REINFORCING STEEL	REMARKS	PLANS ON SHEET NO.
						UP STREAM ELEV.	DOWN STREAM ELEV.					
64	6825 RT.	Standard Inlet Type C-7	12'				799.8				Connect to STRUCTURE No. 62	
65	69400 LT.	Group A Pipe Regd. (Ga. 16 C.M.)	24'				798.45				Class II Drive Regd.	
66	70490 RT.	Standard 12" Pipe Catch Basin	6'				798.03				Connect to STRUCTURE No. 67	
67	70490 RT.	Standard Inlet Type 3-10	12'				798.03				Connect to STRUCTURE No. 67	
68	71179 RT.	Manhole in Place					797.38				Manhole in Place	
69	72126 RT.	C.M. Pipe Regd. (Ga. 16)	24'				798.98				Hdwl. Regd. Outlet End Only. Connect to STRUCTURE No. 68	
70	73190 RT.	Standard Inlet Type 3-10	12'				798.0				Adjust Casting to Grade	
71	74154 RT.	Group A Pipe Regd. (Ga. 16 C.M.)	12'				798.24				Hdwl. Regd. Outlet End Only	
72	77147 LT.	Manhole in Place					798.24				Under side walk	
73	86100 RT.	Sewer Pipe Regd.	6'				798.24				Adjust Casting to Grade	
74	87126 RT.	Group A Pipe Regd. (Ga. 16 C.M.)	24'				798.24				Connect to Existing 12" Pipe. Remove Pipe to RT of Ditch Line	
75	87126 RT.	Group B Pipe Regd. (Ga. 16 C.M.)	24'				798.24				Hdwl. Regd. Outlet End Only	
76	87126 RT.	Group C Pipe Regd. (Ga. 16 C.M.)	24'				798.24				Class II Drive Regd.	
77	87126 RT.	Group D Pipe Regd. (Ga. 16 C.M.)	24'				798.24				Class II Drive Regd.	
78	87126 RT.	Group E Pipe Regd. (Ga. 16 C.M.)	24'				798.24				Under Side walk	
79	87126 RT.	Pipe Anchores Regd. (Ga. 16 C.M.)	24'				798.24				Under Side walk	
80	87126 RT.	Standard Inlet Type E-7	6'				798.24				(Min. Area 4.5 Sq. Ft.) Construct Outlet Channel	
81	87126 RT.	Group A Pipe Regd. (Ga. 16 C.M.)	24'				798.24				Hdwl. Regd. Outlet End Only. Connect to S.S. Drain	
82	87126 RT.	Group B Pipe Regd. (Ga. 16 C.M.)	24'				798.24				Hdwl. Regd. Outlet End Only. Connect to S.S. Drain	
83	87126 RT.	Group C Pipe Regd. (Ga. 16 C.M.)	24'				798.24				Class II Drive Regd.	
84	87126 RT.	Group D Pipe Regd. (Ga. 16 C.M.)	24'				798.24				Class II Drive Regd.	
85	87126 RT.	Group E Pipe Regd. (Ga. 16 C.M.)	24'				798.24				Under Side walk	
86	87126 RT.	Group F Pipe Regd. (Ga. 16 C.M.)	24'				798.24				Under Side walk	
87	87126 RT.	Group G Pipe Regd. (Ga. 16 C.M.)	24'				798.24				Under Side walk	
88	87126 RT.	Group H Pipe Regd. (Ga. 16 C.M.)	24'				798.24				Under Side walk	
89	87126 RT.	Group I Pipe Regd. (Ga. 16 C.M.)	24'				798.24				Under Side walk	
90	87126 RT.	Group J Pipe Regd. (Ga. 16 C.M.)	24'				798.24				Under Side walk	
						Totals		15.16	236			
						UNDISTRIBUTED PIPE						
						6" Sewer Pipe		400'				
						8" Sewer Pipe		400'				
						10" Sewer Pipe		700'				

ESTIMATE OF QUANTITIES

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	U12(10)	1965	28	155

Rev. 6-4-65 Per R/W Dept.

GRADING			PAVEMENT			MISCELLANEOUS			MISCELLANEOUS			MISCELLANEOUS		
ITEM	UNIT	QUANTITY	ITEM	UNIT	QUANTITY	ITEM	UNIT	QUANTITY	ITEM	UNIT	QUANTITY	ITEM	UNIT	QUANTITY
COMMON EXCAVATION	CYS	8477	CEMENT CONCRETE BASE 9"	SYS	309	REINF CEMENT CONCRETE PAVEMENT (H.?)	SYS	10,89	8 INCH HAND LAID RIPRAP	SYS		RIGHT-OF-WAY MARKERS	EACH	11
SOLID ROCK EXCAVATION	CYS		H.E.S. CEMENT CONCRETE BASE	SYS		REINF CEMENT CONCRETE PAVEMENT	SYS		12 INCH HAND LAID RIPRAP	SYS		RESET RIGHT-OF-WAY MARKERS	EACH	
UNCLASSIFIED EXCAVATION	CYS					REINF CEMENT CONCRETE PAVEMENT	SYS		GROUTED RIPRAP	SYS		MONUMENTS, TYPE "A"	EACH	
SPECIAL BORROW	CYS		CONCRETE PATCHES	SYS		REINF CEMENT CONCRETE PAVEMENT	SYS		PLACING HAND LAID RIPRAP 6"	SYS		MONUMENTS, RE-ESTABLISHED	EACH	
OVERHAUL	CYS		CLASS I CONCRETE PATCHES	SYS		H.E.S. REINF CEMENT CONCRETE PAVEMENT	SYS		PLACING HAND LAID RIPRAP 12"	SYS		CASTINGS ADJUSTED TO GRADE, MONUMENTS	EACH	
ADDER HALL GRADING	MIN		CLASS II CONCRETE PATCHES	SYS		H.E.S. REINF CEMENT CONCRETE PAVEMENT	SYS		PRECAST CONCRETE RIPRAP	SYS				
			CLASS III CONCRETE PATCHES	SYS		H.E.S. REINF CEMENT CONCRETE PAVEMENT	SYS		SLOPEWALL	SYS				
			CLASS IV CONCRETE PATCHES	SYS		PLAIN CEMENT CONCRETE PAVEMENT	SYS		CONCRETE SLOPEWALL ()	SYS				
PEAT EXCAVATION	CYS		BITUM MIXTURE FOR PATCHES	TONS		PLAIN CEMENT CONCRETE PAVEMENT	SYS		STANDARD LIP GUTTER	LFT				
PEAT EXCAVATION 15 TO 25 FT	CYS		CLASS I BITUM. PATCHES	TONS		H.E.S. PLAIN CEMENT CONCRETE PAVEMENT	SYS		PAVED SIDE DITCH, TYPE "A"	LFT				
PEAT EXCAVATION 25 TO 35 FT	CYS		CLASS II BITUM. PATCHES	TONS		CONCRETE PAVEMENT ()	SYS		PAVED SIDE DITCH, TYPE "B"	LFT				
SURCHARGE 4'	LFT		CLASS III BITUM. PATCHES	TONS		PRIVATE DRIVE PAVEMENT 6"	SYS	1007	PAVED SIDE DITCH, TYPE "C"	LFT				
SURCHARGE 8-12'	LFT		CLASS IV BITUM. PATCHES	TONS		COMMERCIAL DRIVE PAVEMENT	SYS	482	SPECIAL INTEGRAL CONC. CURB	LFT	477			
SURCHARGE 12-16'	LFT		HOT ASPHALTIC CONCRETE BASE WIDENING	TONS		CEMENT CONCRETE FOR CROSSOVER	SYS		INTEGRAL CONCRETE CURB, TYPE "A"	LFT	2,194			
SURCHARGE 16-20'	LFT		BIT. COATED BLENDED AGGREGATE BASE WIDENING	TONS					INTEGRAL CONCRETE CURB, TYPE "B"	LFT				
SURCHARGE 20-24'	LFT		CONCRETE WIDENING	SYS					INTEGRAL CONCRETE CURB, TYPE "C"	LFT				
MACHINE OPERATION	HRS		FILLING CRACKS AND JOINTS	TONS					SPECIAL CONC. CENTER CURB TYPE E	LFT	217			
MACHINE AVAILABILITY	HRS		BITUMINOUS MATERIAL FOR UNDERSEAL	TONS					CONCRETE CURB	LFT	506			
DYNAMITE	LBS		DRILLING HOLES	EACH					CONCRETE CURB TYPE "B"	LFT	542			
2" CASED TEST HOLES	LFT		BITUMINOUS MATERIAL FOR UNDERSEAL	TONS					SPECIAL CONC. CENTER CURB TYPE F	LFT	1498			
4" CASED TEST HOLES	LFT		DRILLING HOLES	EACH					CONCRETE GUTTER	LFT				
6" CASED TEST HOLES	LFT		BITUM. COATED AGGREGATE BASE WIDENING	TONS					COMB. CONC. CURB AND GUTTER	LFT				
8" CASED DYNAMITE HOLES	LFT		CONCRETE WIDENING	SYS					RECONSTRUCTED CONC. CURB	LFT				
4" CASED DYNAMITE HOLES	LFT								RECONSTRUCTED COMB. CONC. CURB AND GUTTER	LFT				
6" CASED DYNAMITE HOLES	LFT								RESET CURB	LFT				
GRADE 'B' SPECIAL BORROW	CYS	75							CONCRETE CENTER CURB	LFT				
									CONCRETE CENTER CURB	SYS				
									CONCRETE CENTER CURB, TYPE "A"	LFT				
									CONCRETE CENTER CURB, TYPE "B"	LFT				
									CONCRETE CENTER CURB, TYPE "C"	LFT				
									CONCRETE CENTER CURB, TYPE "D"	LFT				
									CONCRETE CENTER CURB, TYPE "E"	LFT				
									CONCRETE CENTER CURB, TYPE "F"	LFT				
									CONCRETE CENTER CURB, TYPE "G"	LFT				
									CONCRETE CENTER CURB, TYPE "H"	LFT				
									CONCRETE CENTER CURB, TYPE "I"	LFT				
									CONCRETE CENTER CURB, TYPE "J"	LFT				
									CONCRETE CENTER CURB, TYPE "K"	LFT				
									CONCRETE CENTER CURB, TYPE "L"	LFT				
									CONCRETE CENTER CURB, TYPE "M"	LFT				
									CONCRETE CENTER CURB, TYPE "N"	LFT				
									CONCRETE CENTER CURB, TYPE "O"	LFT				
									CONCRETE CENTER CURB, TYPE "P"	LFT				
									CONCRETE CENTER CURB, TYPE "Q"	LFT				
									CONCRETE CENTER CURB, TYPE "R"	LFT				
									CONCRETE CENTER CURB, TYPE "S"	LFT				
									CONCRETE CENTER CURB, TYPE "T"	LFT				
									CONCRETE CENTER CURB, TYPE "U"	LFT				
									CONCRETE CENTER CURB, TYPE "V"	LFT				
									CONCRETE CENTER CURB, TYPE "W"	LFT				
									CONCRETE CENTER CURB, TYPE "X"	LFT				
									CONCRETE CENTER CURB, TYPE "Y"	LFT				
									CONCRETE CENTER CURB, TYPE "Z"	LFT				
									CONCRETE CENTER CURB, TYPE "AA"	LFT				
									CONCRETE CENTER CURB, TYPE "AB"	LFT				
									CONCRETE CENTER CURB, TYPE "AC"	LFT				
									CONCRETE CENTER CURB, TYPE "AD"	LFT				
									CONCRETE CENTER CURB, TYPE "AE"	LFT				
									CONCRETE CENTER CURB, TYPE "AF"	LFT				
									CONCRETE CENTER CURB, TYPE "AG"	LFT				
									CONCRETE CENTER CURB, TYPE "AH"	LFT				
									CONCRETE CENTER CURB, TYPE "AI"	LFT				
									CONCRETE CENTER CURB, TYPE "AJ"	LFT				
									CONCRETE CENTER CURB, TYPE "AK"	LFT				
									CONCRETE CENTER CURB, TYPE "AL"	LFT				
									CONCRETE CENTER CURB, TYPE "AM"	LFT				
									CONCRETE CENTER CURB, TYPE "AN"	LFT				
									CONCRETE CENTER CURB, TYPE "AO"	LFT				
									CONCRETE CENTER CURB, TYPE "AP"	LFT				
									CONCRETE CENTER CURB, TYPE "AQ"	LFT				
									CONCRETE CENTER CURB, TYPE "AR"	LFT				
									CONCRETE CENTER CURB, TYPE "AS"	LFT				
									CONCRETE CENTER CURB, TYPE "AT"	LFT				
									CONCRETE CENTER CURB, TYPE "AU"	LFT				
									CONCRETE CENTER CURB, TYPE "AV"	LFT				
									CONCRETE CENTER CURB, TYPE "AW"	LFT				
									CONCRETE CENTER CURB, TYPE "AX"	LFT				
									CONCRETE CENTER CURB, TYPE "AY"	LFT				
									CONCRETE CENTER CURB, TYPE "AZ"	LFT				
									CONCRETE CENTER CURB, TYPE "BA"	LFT				
									CONCRETE CENTER CURB, TYPE "BB"	LFT				
									CONCRETE CENTER CURB, TYPE "BC"	LFT				
									CONCRETE CENTER CURB, TYPE "BD"	LFT				
									CONCRETE CENTER CURB, TYPE "BE"	LFT				
									CONCRETE CENTER CURB, TYPE "BF"	LFT				
									CONCRETE CENTER CURB, TYPE "BG"	LFT				
									CONCRETE CENTER CURB, TYPE "BH"	LFT				
									CONCRETE CENTER CURB, TYPE "BI"	LFT				
									CONCRETE CENTER CURB, TYPE "BJ"	LFT				
									CONCRETE CENTER CURB, TYPE "BK"	LFT				
									CONCRETE CENTER CURB, TYPE "BL"	LFT				
									CONCRETE CENTER CURB, TYPE "BM"	LFT				
									CONCRETE CENTER CURB, TYPE "BN"	LFT				
									CONCRETE CENTER CURB, TYPE "BO"	LFT				
									CONCRETE CENTER CURB, TYPE "BP"	LFT				
									CONCRETE CENTER CURB, TYPE "BQ"	LFT				
									CONCRETE CENTER CURB, TYPE "BR"	LFT				
									CONCRETE CENTER CURB, TYPE "BS"	LFT				
									CONCRETE CENTER CURB, TYPE "BT"	LFT				
									CONCRETE CENTER CURB, TYPE "BU"	LFT				
									CONCRETE CENTER CURB, TYPE "BV"	LFT				
									CONCRETE CENTER CURB, TYPE "BV"	LFT				
									CONCRETE CENTER CURB, TYPE "BW"	LFT				
									CONCRETE CENTER CURB, TYPE "BX"	LFT				
									CONCRETE CENTER CURB, TYPE "BY"	LFT				
									CONCRETE CENTER CURB, TYPE "BZ"	LFT				
									CONCRETE CENTER CURB, TYPE "CA"	LFT				
									CONCRETE CENTER CURB, TYPE "CB"	LFT				
									CONCRETE CENTER CURB, TYPE "CC"	LFT				
									CONCRETE CENTER CURB, TYPE "CD"	LFT				
									CONCRETE CENTER CURB, TYPE "CE"	LFT				
									CONCRETE CENTER CURB, TYPE "CF"	LFT				
									CONCRETE CENTER CURB, TYPE "CG"	LFT				
									CONCRETE CENTER CURB, TYPE "CH"	LFT				
									CONCRETE CENTER CURB, TYPE "CI"	LFT				
									CONCRETE CENTER CURB, TYPE "CJ"	LFT				
									CONCRETE CENTER CURB, TYPE "CK"	LFT				

ESTIMATE OF QUANTITIES

Rev. 9-4-44 Joint - Per Bridge Design Rev. 7-1-64 Appr. Quantities Shown Rev. 8-11-64

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F 12(9)	1965	27	135

Rev. 3-1-64 Per R/W Dept.
Rev. 8-20-64 Per R/W Dept.
REV. 12-2-65 Per Road Design Dept.

GRADING		PAVEMENT		MISCELLANEOUS	
ITEM	UNIT QUANTITY	ITEM	UNIT QUANTITY	ITEM	UNIT QUANTITY
COMMON EXCAVATION	CYS 2,200	CEMENT CONCRETE BASE	SYS	REINF. CEMENT CONCRETE PAVEMENT	(10) SYS 37,211
SOLID ROCK EXCAVATION	CYS 5,250	H.E.S. CEMENT CONCRETE BASE	SYS	REINF. CEMENT CONCRETE PAVEMENT	() SYS
UNCLASSIFIED EXCAVATION	CYS	CONCRETE PATCHES	SYS	REINF. CEMENT CONCRETE PAVEMENT	() SYS
SPECIAL BORROW	CYS	CLASS I CONCRETE PATCHES	SYS	H.E.S. REINF. CEMENT CONCRETE PAVEMENT	() SYS
OVERHAUL	CYS 17,51	CLASS II CONCRETE PATCHES	SYS	H.E.S. REINF. CEMENT CONCRETE PAVEMENT	() SYS
ADDED HALL GRADING	ML 4.12	CLASS III CONCRETE PATCHES	SYS	PLAIN CEMENT CONCRETE PAVEMENT	() SYS
PEAT EXCAVATION	CYS	CLASS IV CONCRETE PATCHES	SYS	PLAIN CEMENT CONCRETE PAVEMENT	() SYS
PEAT EXCAVATION 15 TO 25 FT.	CYS	BITUM. MIXTURE FOR PATCHES	TONS	H.E.S. PLAIN CEMENT CONCRETE PAVEMENT	() SYS
PEAT EXCAVATION 25 TO 35 FT.	CYS	CLASS I BITUM. PATCHES	TONS	PRIVATE DRIVE PAVEMENT	6' SYS 495
SURCHARGE 4'	LFT	CLASS II BITUM. PATCHES	TONS	COMMERCIAL DRIVE PAVEMENT	SYS
SURCHARGE 4-8'	LFT	CLASS III BITUM. PATCHES	TONS	CEMENT CONCRETE FOR CROSSOVER	6' SYS 219
SURCHARGE 8-12'	LFT	CLASS IV BITUM. PATCHES	TONS	CONCRETE WIDENING	SYS
SURCHARGE 12-16'	LFT	HOT ASPHALTIC CONCRETE BASE WIDENING	TONS	CONCRETE WIDENING	SYS
SURCHARGE 16-20'	LFT	BIT. COATED BLENDED AGGREGATE BASE WIDENING	TONS	FILLING CRACKS AND JOINTS	TONS
SURCHARGE 20-24'	LFT	BITUM. COATED AGGREGATE BASE WIDENING	TONS	BITUMINOUS MATERIAL FOR UNDERSEAL	TONS
MACHINE OPERATION	HRS	CONCRETE WIDENING	SYS	DRILLING HOLES	TONS
MACHINE AVAILABILITY	HRS	CONCRETE WIDENING	SYS	BITUM. MATERIAL APPLIED SEAL	TONS 20.7
DYNAMITE	LBS	CONCRETE WIDENING	SYS	BITUM. MATERIAL APPLIED PRIME	TONS 21.8
2" CASED TEST HOLES	LFT	CONCRETE WIDENING	SYS	COVERING AGGREGATE	TONS 192
4" CASED TEST HOLES	LFT	CONCRETE WIDENING	SYS	BITUM. MATERIAL APPLIED	TONS 8.1
6" CASED TEST HOLES	LFT	CONCRETE WIDENING	SYS	HOT ASPHALTIC CONCRETE BASE	TONS
8" CASED TEST HOLES	LFT	CONCRETE WIDENING	SYS	HOT ASPHALTIC CONCRETE SURFACE TYPE "	TONS
4" CASED DYNAMITE HOLES	LFT	CONCRETE WIDENING	SYS	HOT ASPHALTIC CONCRETE SURFACE TYPE "	TONS
6" CASED DYNAMITE HOLES	LFT	CONCRETE WIDENING	SYS	BITUM. MIXTURES FOR CROSSOVER	TONS
GRADE B SPECIAL BORROW	CYS 658	CONCRETE WIDENING	SYS	BITUM. MIXTURES FOR APPROACHES	TONS 379
		CONCRETE WIDENING	SYS	TYPE P COMPACTED AGGREGATE BASE	TONS 675
		CONCRETE WIDENING	SYS	SALVAGED ROAD MATERIAL FOR APPROACHES	CYS
		CONCRETE WIDENING	SYS	SALVAGED ROAD MATERIAL FOR FRONTAGE ROADS	CYS
		CONCRETE WIDENING	SYS	SALVAGED ROAD MATERIAL FOR BASE	CYS
		CONCRETE WIDENING	SYS	SALVAGED SURFACE MATERIAL FOR APPROACHES	CYS
		CONCRETE WIDENING	SYS	CONCRETE HEADER, TYPE "A"	LFT
		CONCRETE WIDENING	SYS	CONCRETE HEADER, TYPE "B"	LFT
		CONCRETE WIDENING	SYS	RECONSTRUCTED CONC. HEADER	LFT
		CONCRETE WIDENING	SYS	FENCE (FARM FIELD TYPE)	LFT
		CONCRETE WIDENING	SYS	FENCE (CHAIN LINK TYPE)	LFT
		CONCRETE WIDENING	SYS	GATES (SINGLE)	EACH
		CONCRETE WIDENING	SYS	GATES (DOUBLE)	EACH
		CONCRETE WIDENING	SYS	CEMENT CONCRETE SIDEWALK	SYS 38
		CONCRETE WIDENING	SYS	RECONSTRUCTED CONC. SIDEWALK	SYS
		CONCRETE WIDENING	SYS	RE-LAID SIDEWALK	SYS
		CONCRETE WIDENING	SYS	"EXPANSION JOINT FOR SIDEWALK	LFT
		CONCRETE WIDENING	SYS	CROSSWALK	SYS
		CONCRETE WIDENING	SYS	MAINTAINING LOCAL TRAFFIC	L.S.

MISCELLANEOUS		MISCELLANEOUS		MISCELLANEOUS	
ITEM	UNIT QUANTITY	ITEM	UNIT QUANTITY	ITEM	UNIT QUANTITY
8 INCH HAND LAID RIPRAP	SYS	RIGHT-OF-WAY MARKERS	EACH 20	FURNISHING AND INSTALLING CONDUIT	LFT
12 INCH HAND LAID RIPRAP	SYS	RESET RIGHT-OF-WAY MARKERS	EACH	HAND HOLE FOR STREET AND ALLEY	EACH
GROUTED RIPRAP	SYS	MONUMENTS, TYPE "	EACH	HAND HOLE FOR SIDEWALK	EACH
PLACING HAND LAID RIPRAP	SYS	MONUMENTS, RE-ESTABLISHED	EACH	SIGNAL BASE, TYPE "A"	EACH
PRECAST CONCRETE RIPRAP	SYS	CASTINGS ADJUSTED TO GRADE, MONUMENTS	EACH	SIGNAL BASE, TYPE "B"	EACH
SLOPEWALL	SYS	BENCH-MARK POST	EACH	SODDING	SYS 12,637
CONCRETE SLOPEWALL	() SYS	RESETTING BENCH-MARK POST	EACH	FURNISHING AND PLACING AGRICULTURAL LIMESTONE	TONS 16.6
STANDARD LIP GUTTER	LFT	RAILROAD CROSSING SIGN, TYPE "A"	EACH	FURNISHING AND PLACING FERTILIZER	TONS 2.5
PAVED SIDE DITCH, TYPE "A"	LFT 230	RAILROAD CROSSING SIGN, TYPE "B"	EACH	SEED FURNISHING AND APPLYING MULCHING MATERIAL	TONS 20.7
PAVED SIDE DITCH, TYPE "B"	LFT 385	ADVANCE RAILROAD WARNING SIGN	EACH	PLAIN SEEDING	SYS
PAVED SIDE DITCH, TYPE "C"	LFT 175			MULCHED SEEDING	SYS
PAVED SIDE DITCH, TYPE "D"	LFT			STEEL FOR RECONSTRUCTED EXPANSION JOINT	LBS
PAVED SIDE DITCH, TYPE "E"	LFT			FILLET WELD	LFT
PAVED SIDE DITCH, TYPE "F"	LFT			BITUMINOUS CURB	LFT
PAVED SIDE DITCH, TYPE "G"	LFT			BITUMINOUS SHOULDER	TONS
INTEGRAL CONCRETE CURB	LFT 480			BITUMINOUS MATERIAL FOR PRIME	TONS
INTEGRAL CONCRETE CURB, TYPE "B"	LFT			BITUMINOUS MATERIAL FOR SEAL	TONS
INTEGRAL CONCRETE CURB, TYPE "C"	LFT			COVERING AGGREGATE	TONS
SPEC. INTEGRAL CONC. CURB	LFT 105				
CONCRETE CURB	LFT 302				
CONCRETE CURB TYPE "B"	LFT				
SPEC. CONC. CENTER CURB TYPE F	LFT 2823				
CONCRETE GUTTER	LFT				
COMB. CONC. CURB AND GUTTER	LFT				
RECONSTRUCTED CONC. CURB	LFT				
RECONSTRUCTED COMB. CONC. CURB AND GUTTER	LFT				
RESET CURB	LFT				
CONCRETE CENTER CURB	LFT				
CONCRETE CENTER CURB, TYPE "A"	SYS				
CONCRETE CENTER CURB, TYPE "B"	LFT				
CONCRETE CENTER CURB, TYPE "C"	LFT				
CONCRETE CENTER CURB, TYPE "D"	SYS 226				
CONCRETE CENTER CURB, TYPE "E"	LFT				
CONCRETE CENTER CURB, TYPE "F"	SYS				
STRAIGHT BEAM GUARD RAIL	LFT 1150				
DOUBLE-FACED STRAIGHT BEAM GUARD RAIL	LFT 109				
SHOP-CURVED BEAM GUARD RAIL	LFT				
SHOP-CURVED DOUBLE-FACED BEAM GUARD RAIL	LFT				
RESETTING GUARD RAIL	LFT				
WIRE-ROPE GUARD RAIL	LFT				
RESET WIRE-ROPE GUARD RAIL	LFT				
GUARD RAIL	LFT				
GUARD RAIL POST	EACH				
GUARD FENCE	LFT				
RESET GUARD FENCE	LFT				
GUIDE POST, TYPE "A"	EACH 6				
GUIDE POST, TYPE "B"	EACH				
RESET GUIDE POST	EACH				
DELINEATORS, TYPE "A"	EACH				
DELINEATORS, TYPE "B"	EACH				
TYPICAL SIGN STANDARDS	EACH 8				
CONCRETE HEADER, TYPE "A"	LFT				
CONCRETE HEADER, TYPE "B"	LFT				
RECONSTRUCTED CONC. HEADER	LFT				
FENCE (FARM FIELD TYPE)	LFT				
FENCE (CHAIN LINK TYPE)	LFT				
GATES (SINGLE)	EACH				
GATES (DOUBLE)	EACH				
CEMENT CONCRETE SIDEWALK	SYS 38				
RECONSTRUCTED CONC. SIDEWALK	SYS				
RE-LAID SIDEWALK	SYS				
"EXPANSION JOINT FOR SIDEWALK	LFT				
CROSSWALK	SYS				
MAINTAINING LOCAL TRAFFIC	L.S.				

STRUCTURE SUMMARY

KIND	PIPE LINEAL FEET											
	4"	6"	8"	10"	12"	15"	18"	21"	24"	30"	36"	42"
GAGE C.M. PIPE					16	16	16					
GAGE STRUCTURAL PLATES												
GROUP A												
GROUP B												
GROUP C												
GROUP D												
GROUP E												
GROUP F												

**GAGE WHEN HEAVIER THAN REQUIRED IN STANDARD SPECIFICATIONS

STRUCTURE SUMMARY (CONT)

KIND	PIPE LINEAL FEET											
	4"	6"	8"	10"	12"	15"	18"	21"	24"	30"	36"	42"
GAGE C.M. PIPE					16	16	16					
GAGE STRUCTURAL PLATES												
GROUP A												
GROUP B												
GROUP C												
GROUP D												
GROUP E												
GROUP F												

*STRUTTED			
**GAGE WHEN HEAVIER THAN REQUIRED IN STANDARD SPECIFICATIONS			
PIPE GROUP "A" FOR SUBSURFACE DRAINAGE 6"	13,703	LN. FT.	
NON PERFORATED BIT COATED CORR. METAL FOR SUBSURFACE DRAINAGE 6"	130	LN. FT.	
AGGREGATE FOR SUBSURFACE DRAINAGE	305	CYS.	

ITEM	UNIT	QUANTITY	AUTO DRAINAGE GATES
CONCRETE CLASS "D" FOR STRUCTURES	CYS.	89 @ 226	SIZE HEAD EACH
REINFORCING STEEL FOR STRUCTURES	LBS.	50	
CONCRETE CLASS "F" FOR STRUCTURES	CYS.		

PIPE CATCH BASIN	INLETS	RECONSTRUCTED	CASTINGS FURNISHED AND ADJUSTED TO GRADE	REINF. CONCRETE SPRING BOXES	MANHOLES
TYPE EACH	TYPE EACH	LN. FT.	TYPE "B" 3 EACH	EACH	TYPE A4 5
12" 4	E1 4	5.5	TYPE "A" 3 EACH		
18" 2	E2 10	0.5			
24" 2	E3 3				
30" 2	E4 1				
36" 2	E5 1				

END STR