

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

U.S.P.W.H.P. NO. OHIO
N.R.H.-575-E (1935)

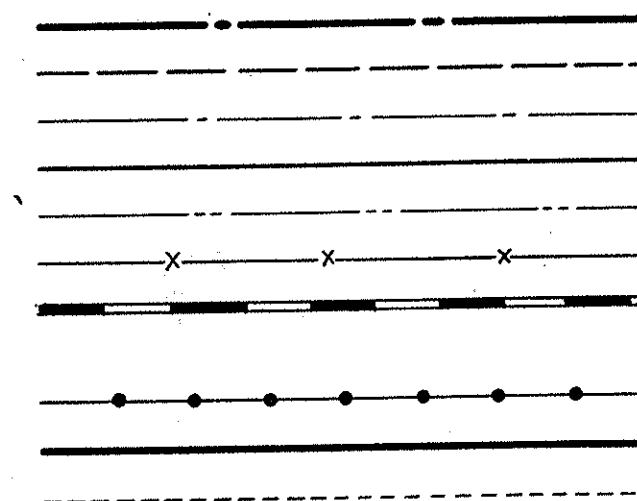
FED. AID DIST.	STATE	USPWH PROJECT	FISCAL YEAR	1 34
10	OHIO	NRH 575E	1935	

STARK COUNTY
S.H. 71 SEC. A
S.H. 17 SEC. A & Q (Pt.)

AKRON ~ MASSILLON ROAD
S.H. NO. 71 SEC. A
CLEVELAND ~ MASSILLON ROAD
S.H. NO. 17 SEC'S. A & Q (Pt.)
STARK COUNTY

CONVENTIONAL SIGNS

COUNTY LINE
TOWNSHIP LINE
CENTER LINE
PROPERTY LINE
CITY OR VILLAGE LINE
FENCE LINE
STEAM RAILROAD
POLE LINE
GUARD RAIL
DRAIN PIPE, NEW
DRAIN PIPE, OLD

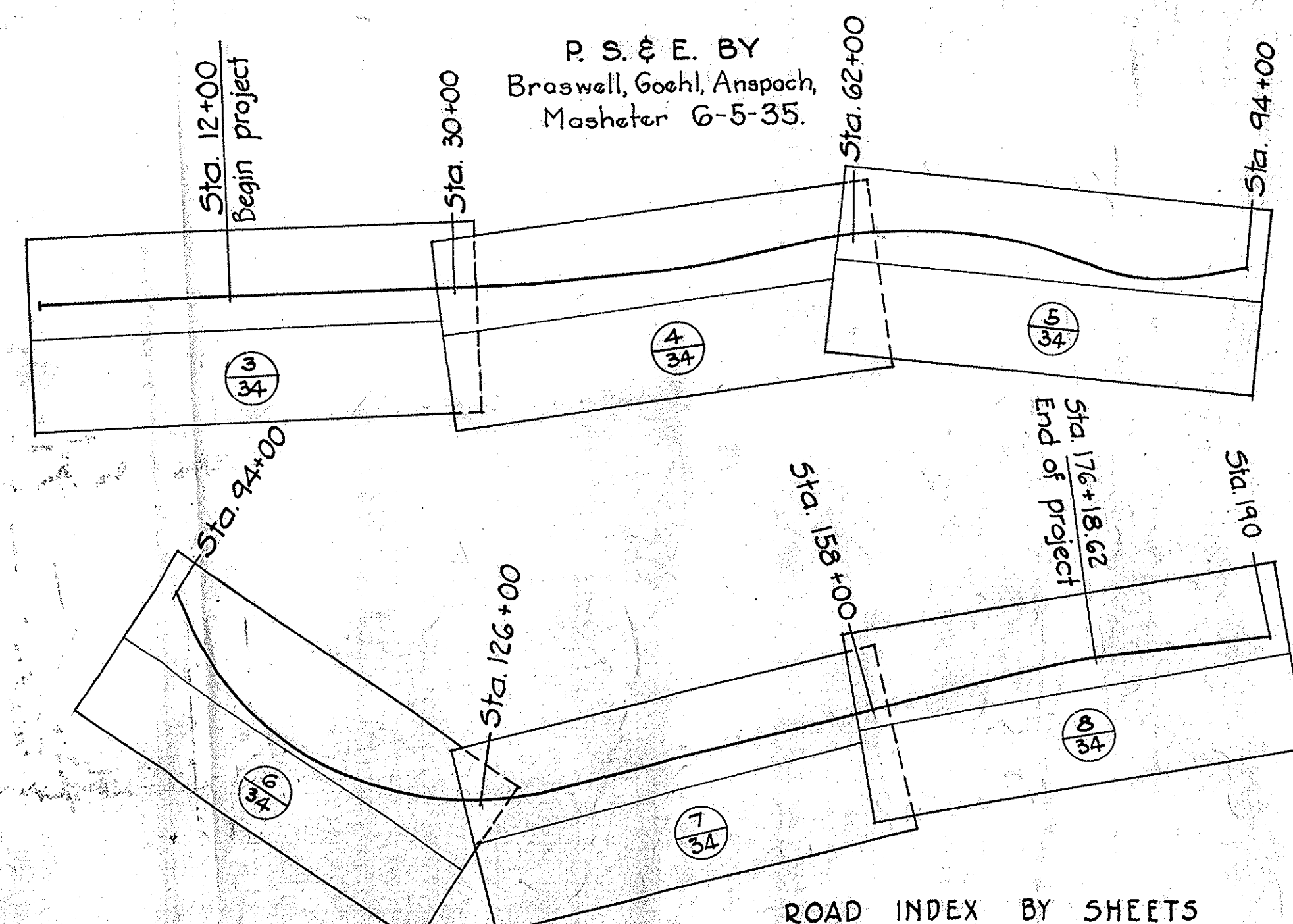


LINE DATA
Begin U.S.P.W.H.P. No. Ohio N.R.H. 575-E Sta. 12+00
End U.S.P.W.H.P. No. Ohio N.R.H. 575-E Sta. 176+18.6
No additions or deductions.
Net Length = 16418.6 Lin. Ft. or 3.109 Mi.

INDEX OF SHEETS

TITLE SHEET
TYPICAL SECTIONS
INTERSECTION DETAILS
PLAN AND PROFILE
CURVE TABLES
CROSS SECTIONS
STRUCTURAL DETAILS
SUMMARY OF QUANTITIES

SHEET	1
"	2
"	3-8
"	8-A
"	9-26
"	27-33
"	34



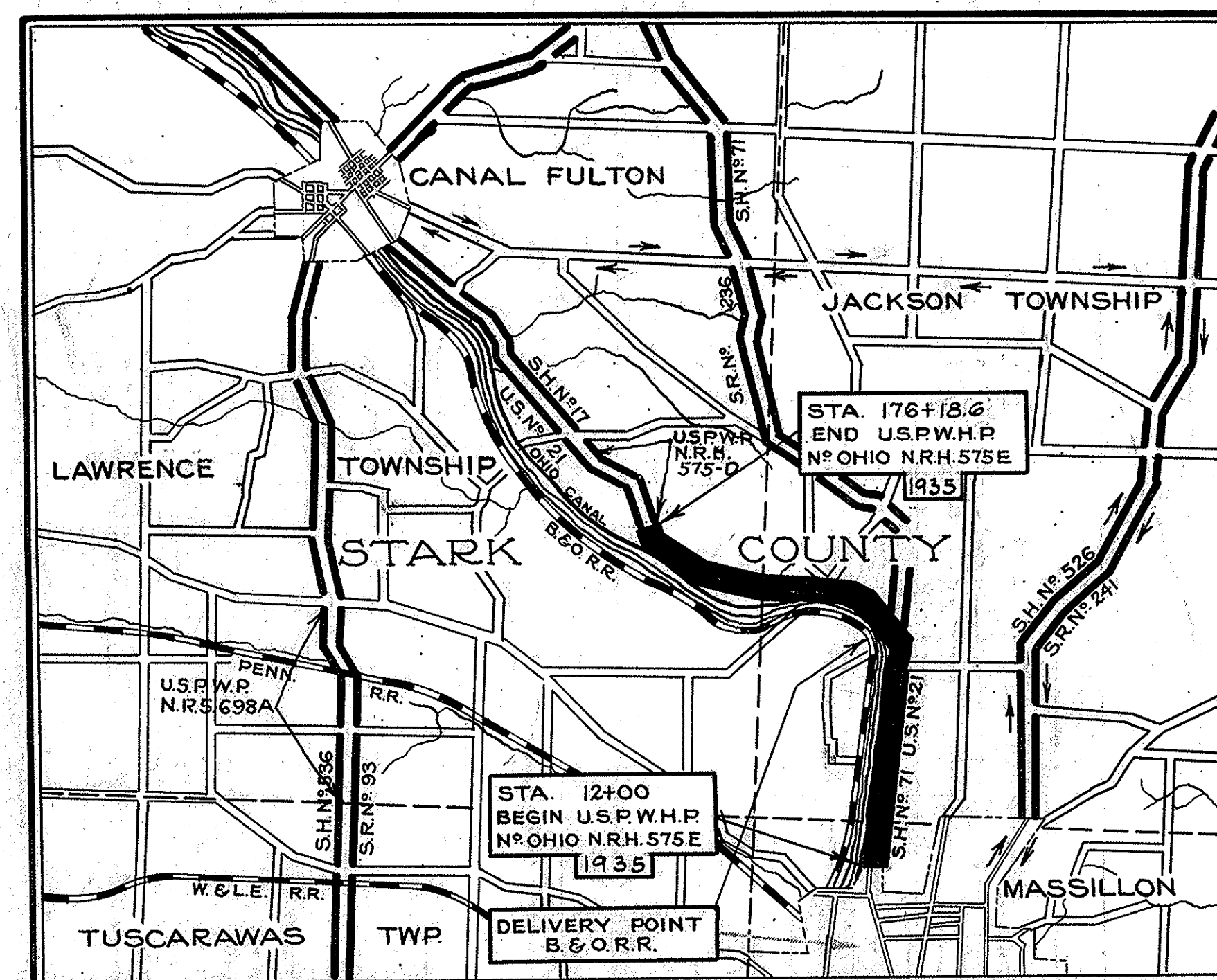
RIGHT-OF-WAY 60'-66'-100'

ROAD INDEX BY SHEETS

SCALE 1" = 1000'

PERRY, JACKSON & LAWRENCE TOWNSHIPS

STA. 12+00 TO STA. 176+18.6 GROSS LENGTH = NET LENGTH = 16418.6 LINEAL FEET OR 3.109 MILES.



AVERAGE HAUL 18 MILES

LOCATION PLAN

SCALE OF MILES
0 1 2 3

PORTION TO BE IMPROVED
DETOURS SHOWN THUS
STATE HIGHWAYS
COUNTY ROADS

SCALES

PLAN
PROFILE-VERTICAL
PROFILE-HORIZONTAL
CROSS SECTIONS

1" = 100'
1" = 10'
1" = 100'
1" = 5'

CONSTRUCTION
BUREAU
OCT 14 1935
GROUND P.

The Standard Specifications of the State of Ohio, Department of Highways, together with the "Special Provisions for United States Public Works Highway Projects," and "Supplemental Specifications Nos. 1, 2 (Rev. 7-31-35), 12 (Rev. 7-31-35), 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, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 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989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

I hereby approve these plans and declare that the making of this improvement will require the closing of the highway to traffic and that a temporary road will be provided as shown on the plans and estimates.

The necessary right of way has been provided.

Approved Luther K. Zerbe
Date 7-8-35 Resident District Deputy Director

Approved Archibald Ramsey
Date 7-8-35 Resident Division Deputy Director

Approved _____
Date _____ Chief Engineer, Bureau of Maintenance

Approved _____
Date _____ Chief Engineer, Bureau of Bridges

Approved W. R. Thompson
Date 8/1/35 Chief Engineer, Location and Design

Approved Carl J. Wale P.E. 69
Date 8/1/35 First Asst. Director and Chief Engineer

Approved W. R. Thompson
Date 8/1/35 Director of Highways

Recommended for Approval _____
Date _____ District Engineer, Bureau of Public Roads

Recommended for Approval _____
Date _____ Chief Engineer, Bureau of Public Roads

Approved _____
Date _____ Chief of Bureau

CHECKING RECORD		
OFFICE	BY	DATE
RESIDENT	W.L.B.	7-8-35
DIVISION	G.W.H.	7-8-35
BUREAU OF MAINTENANCE		
BUREAU OF BRIDGES		
LOCATION & DESIGN	G.J.T.	7-31-35
BUREAU OF PUBLIC ROADS		

RECEIVED	
By <u>W. R. Thompson</u>	Date <u>8-6-35</u>
Clerk of Sales	

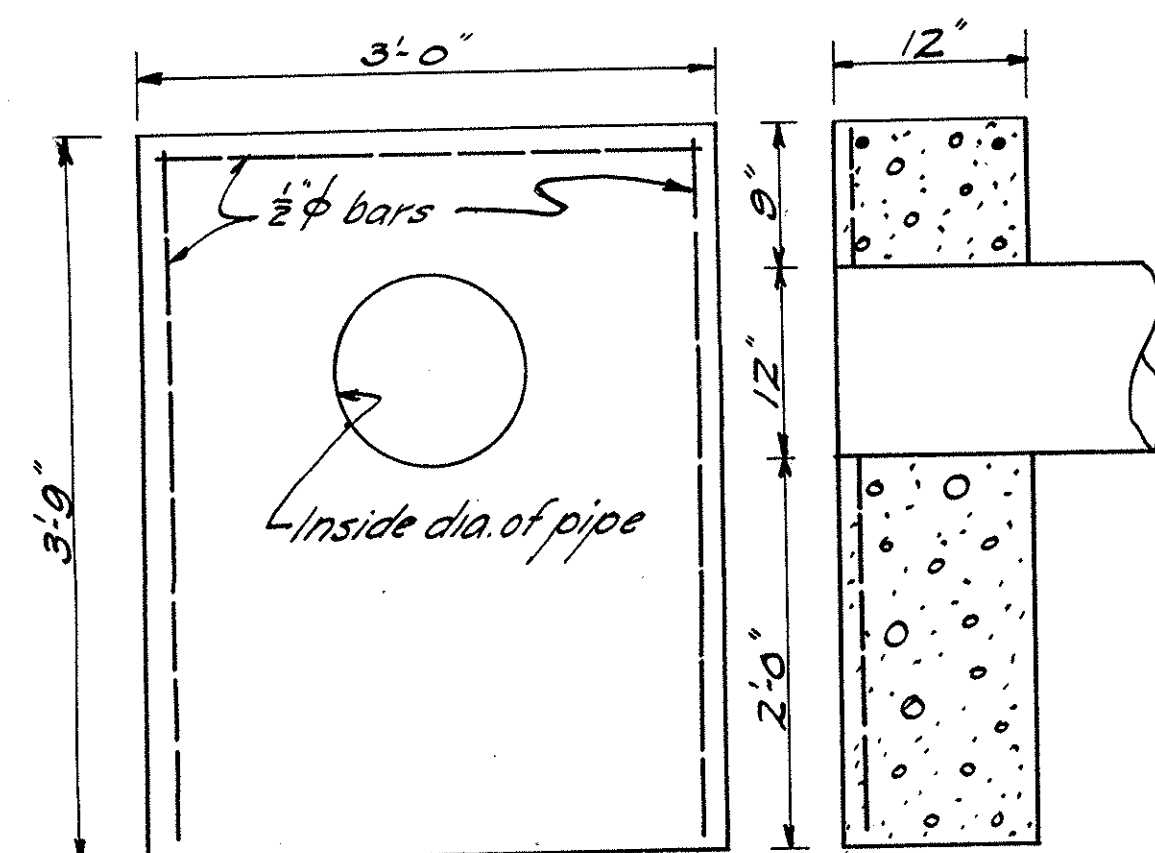
APPROVED	
By <u>W. R. Thompson</u>	Date <u>8-6-35</u>
Planning Engineer	
Remarks <u>20' Width T-70</u>	
<u>Passing, Grd. 2, 5116</u>	

FILE NO. 224
STARK-SH. 71 SEC. A & SH. 17 SEC. A & Q (Pt.)
DATE OF LETTING 10-18-1935
CONTRACT NO. 6219

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS
I-55, G-1-35, I-8 CB I-2#22, Apr. 1934; B-70-J, 10-1-34; G-707, Oct. 1933; A-3-33; S-B-33; S-B-C-34; RW-33;
I-81 No. 1, Aug. 1933; I-1-2, 3, 4, #5, May 1934; B-T-50-70-71 E No. 1, Oct. 1933; B-T-70-71-E, No. 1, Oct. 1933; S-27-PC1, PC2, May 1934; T-30-E No. 1, Aug. 1933; E-5, 7-12-35; I-8 CB I-3#1-4, Apr. 1934.

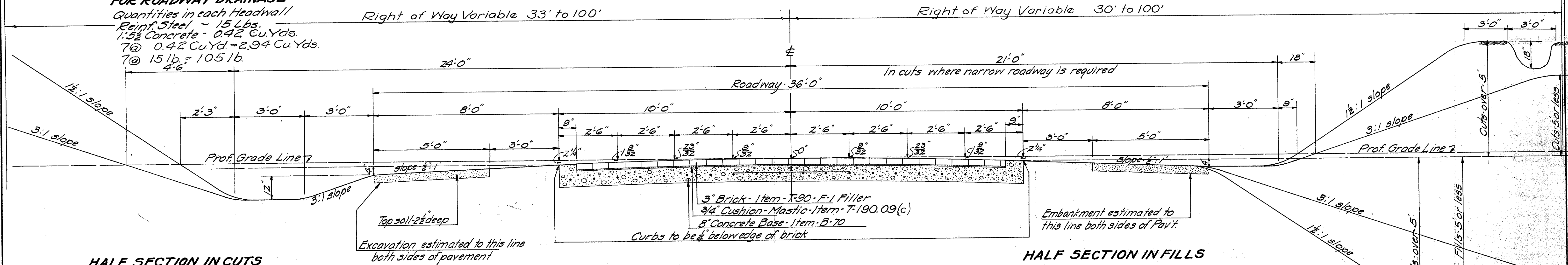
FED. AID DIST.	STATE	FED. AID PROJECT	FISCAL YEAR	
10	OHIO	NRH 575-E	1935	2 34

SH. 71 - Sec. A
SH. 17 - Sec. A & Q Pt
Stark County



**DETAILS - SPECIAL HDWL.
FOR ROADWAY DRAINAGE**

Quantities in each Headwall:
Reinf. Steel - 15 Lbs.
1:5 Concrete - 0.42 Cu. Yds.
7@ 0.42 Cu. Yd. = 2.94 Cu. Yds.
7@ 15 lb. = 105 lb.



TYPICAL SECTION T-90 PAVT
STA. 12+00 TO STA. 176+18.62

GENERAL NOTES

In lieu of the specifications for the construction of construction joints, Item B-70.24 and contraction joints, Item B-70.25, the joints shall be constructed in accordance with the dowel lengths and dowel spacing as shown on Standard Construction Drawing B-70-J.

Joints in concrete base to be covered with 9" wide strip of burlap saturated with asphalt prior to placing of cushion.

Side ditches as shown along and back of top of cuts and toe of fills to be placed as Engineer may direct. Payment therefor to be included in the unit price bid per cubic yard of excavation.

The removal of existing pavement from station 12+00 to sta. 149+10 and from sta. 166+35 to sta. 176+18.6 is not included with excavation for payment.

Excavation and embankment quantities are computed with allowance for a strip 5 ft. wide and 2 1/2" deep on each side of pavement, which is to be filled with top soil.

Before grading or ditching operations in the areas specified by the Engineer for removal of top soil, the contractor will be required to remove and stock pile approximately 2858 cu. yds. Approximately 1240 cu. yds. of this yardage will be replaced on the shoulders 2 1/2" thick omitting a strip 3 ft. wide on each side of the new pavement. Also approximately 140 cu. yds. will be replaced 2 1/2" thick over area of vacated pavement from approximately sta. 62 to sta. 68. Approximately 1478 cu. yds. will be left stockpiled for later use.

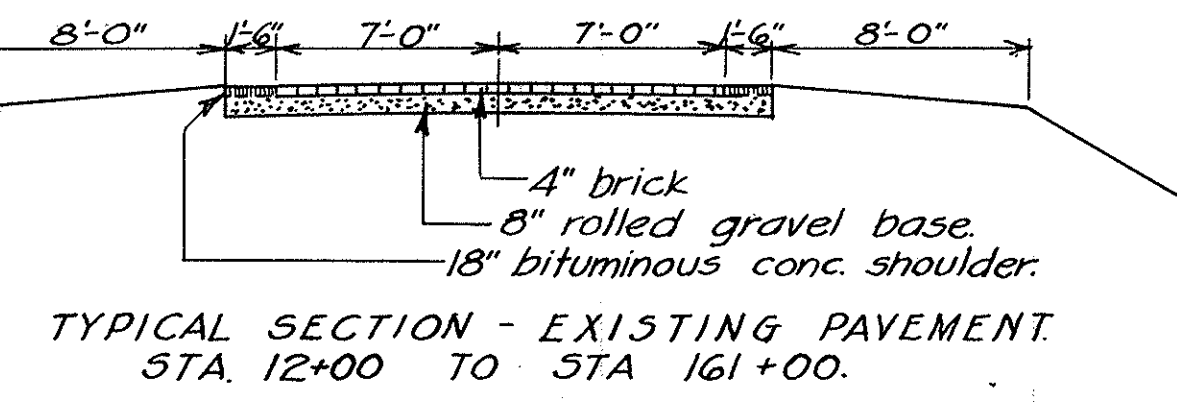
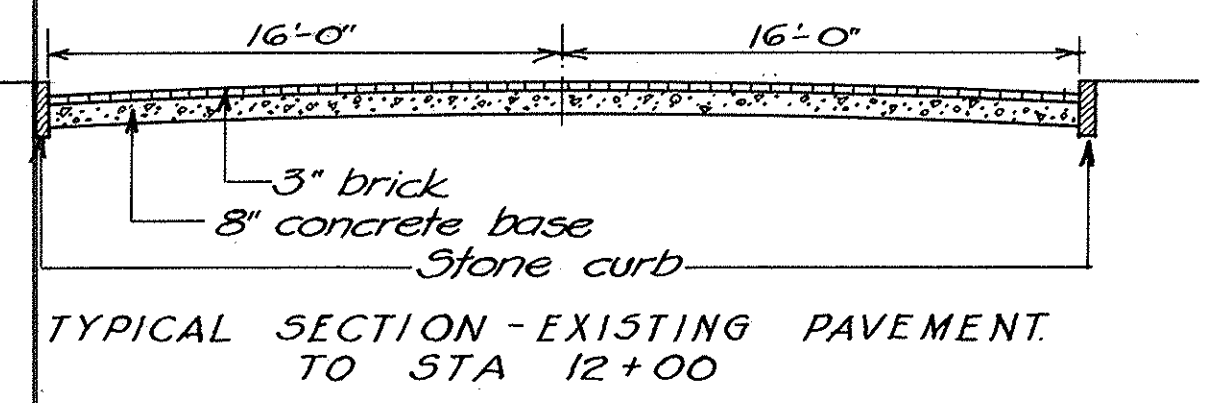
APPROVED			
PEM			
7-31-35			

DATE
BY
SUPPORTED
SURVEY
NOTE BOOK
NO.

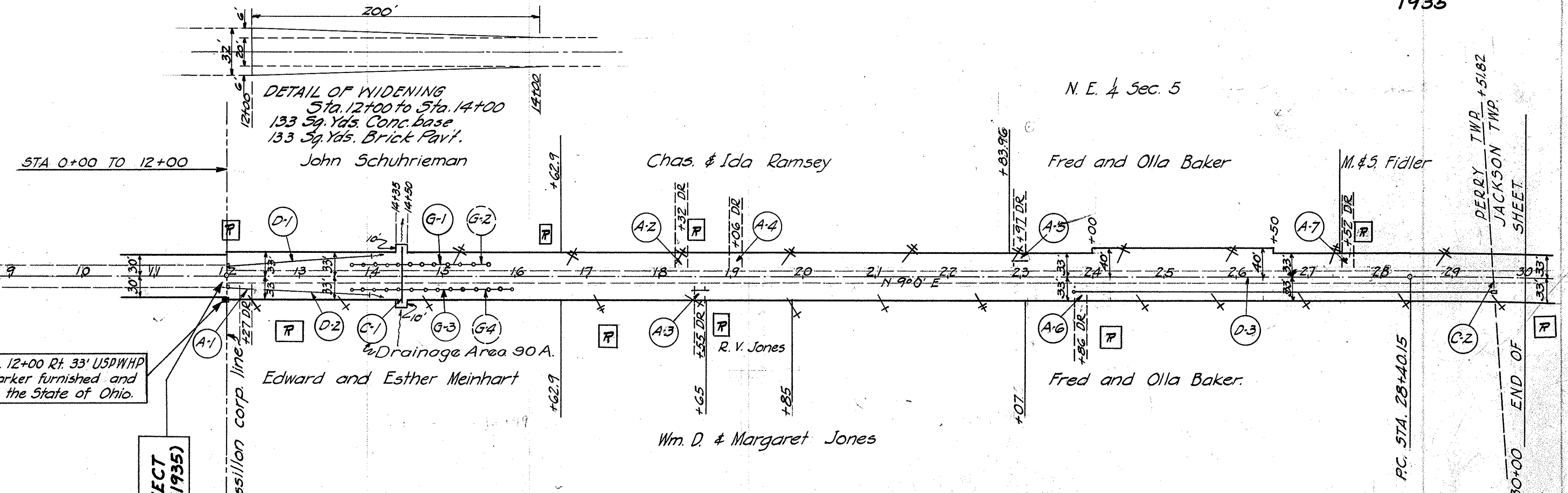
DATE
BY
SUPPORTED
SURVEY
NOTE BOOK
NO.

FED. AID DIST.	STATE	FED. AID PROJECT	FISCAL YEAR	
10	OHIO	NRH-575-E	1935	34

Stark County
SH-71 Sec. "A"
SH 17 - Sec. "A" and "Q" Pt.
U.S.P.W.H.P. N° OHIO-NRH-575-E
1935



Spk 4' up in 24" apple tree.
STA 29+51.82
Twp. line.
SW cor. of hse.



DRIVES AND APPROACHES				
Item No.	Station	Side	C.M.P. 12" Lin. ft.	Aggregate Cu. Yds.
A-1	12+27	R		3
A-2	18+32	L		3
A-3	18+55	R	20	3
A-4	19+06	L		3
A-5	22+97	L	20	3
A-6	23+86	R		3
A-7	27+52	L		3
TOTALS			40	21

GUARD RAIL					
Item No.	From Station	To Station	Side	Lin. ft.	Remove and store
G-1	13+75	15+67	L	192	
G-2	13+75	15+59	L		184
G-3	13+75	15+99	R	224	
G-4	13+75	15+94	R		219
TOTALS				416	403

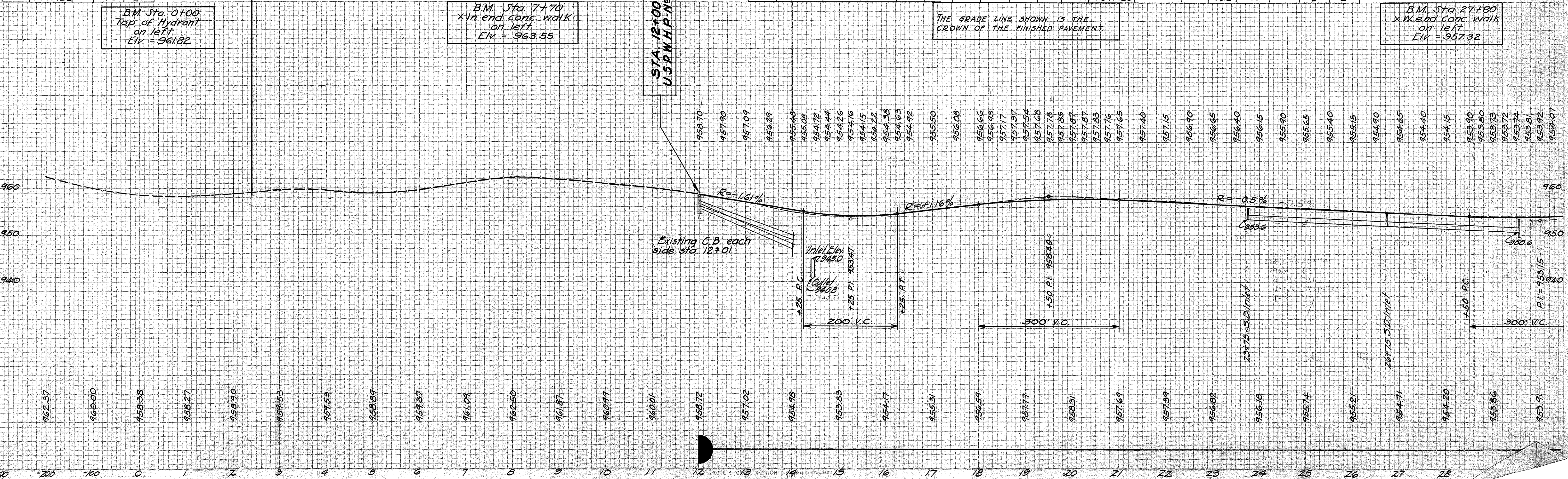
CULVERTS										ROADWAY DRAINAGE					
Item No.	Station	Type	Size	Excav. Cu. Yd.	Conc. 1:5 1/2 Cu. Yds.	V.S.P. 12" Lin. ft.	R.C.P. 42" Lin. ft.	No. 1-3 C.B. Each	Removal Portions Existing Masonry Culverts	Item No.	Station	Side	V.S.P. 12" Lin. ft.	Cor. M.P. 12" Lin. ft.	Side D. Inlets Each
C-1	14+43	R.C.P.	42"x16"	123	4.2	2	76	1	0.2	D-1	12+02	L	198	20	1
C-2	29+55	Enc. V.S.P.	12"x2'	4	2	2	76	1	0.2	D-2	12+02	R	178	20	1
TOTALS				127	4.2	2	76	1	0.2	D-3	23+76	R	556	20	2
										TOTALS			132	40	2

B.M. Sta. 0+00
Top of Hydrant
on left
Elev. = 961.82

B.M. Sta. 7+70
x in end conc. walk
on left
Elev. = 963.55

THE GRADE LINE SHOWN IS THE
CROWN OF THE FINISHED PAVEMENT.

B.M. Sta. 27+80
x W. end conc. walk
on left
Elev. = 957.32



REMOVAL OF TREES				
Station	Side	No.	Size	Kind
31+51	R	1	18"	Apple
31+70	R	1	8"	Apple
31+86	R	1	12"	Wild cherry
43+63	R	1	12"	Elm
43+69	R	1	30"	Double elm
44+66	L	1	16"	Elm
46+06	L	1	42"	Oak
47+76	L	1	15"	Double hackberry
48+00	R	1	20"	Elm
48+30	L	2	30"	Oaks
TOTAL		11		

Trees to be removed are shown thus. v.

Spike
6" Elm
Spike
6" Pole
P.I. Sta. 30+25.670

Spike
6" Pole
P.I. Sta. 34+25.390

P.I. = STA 34+25.39
Δ = 3° 1' L
D = 1° 00'
L = 301.67'
E = 2.0'
R = 5729.58
T = 150.89

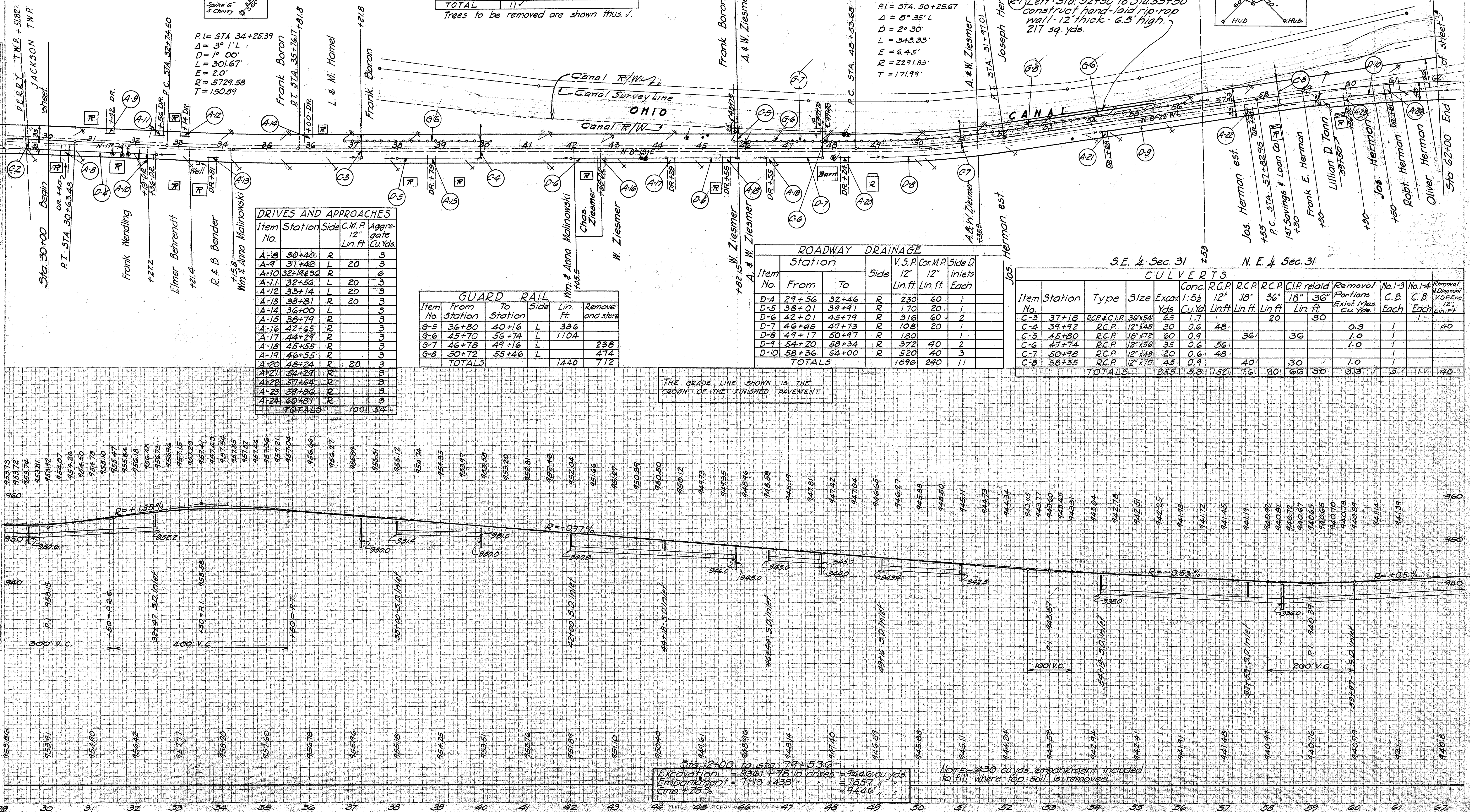
DRIVES AND APPROACHES				
Item No.	Station	Side	C.M.P. 12" Lin. ft.	Aggr. gate Cu. Yds.
A-8	30+40	R		3
A-9	31+42	L	20	3
A-10	32+19	R	20	6
A-11	32+56	L	20	3
A-12	33+14	L	20	3
A-13	33+81	R	20	3
A-14	36+00	L		3
A-15	38+79	R		3
A-16	42+65	R		3
A-17	44+29	R		3
A-18	45+55	R		3
A-19	46+55	R		3
A-20	48+24	R	20	3
A-21	54+29	R		3
A-22	57+64	R		3
A-23	59+86	R		3
A-24	60+81	R		3
TOTALS			100	54

GUARD RAIL				
Item No.	From Station	To Station	Side Lin. ft.	Remove and store
G-5	36+80	40+16	L	336
G-6	45+70	56+74	L	1104
G-7	46+78	49+16	L	238
G-8	50+72	55+46	L	474
TOTALS			1440	712

ROADWAY DRAINAGE						
Item No.	Station		Side	V.S.P.	Cor.M.P.	Side D
	From	To		12" Lin.ft.	12" Lin.ft.	inlets Each
D-4	29+56	32+46	R	230	60	1
D-5	38+01	39+91	R	170	20	1
D-6	42+01	45+79	R	316	60	2
D-7	46+45	47+73	R	108	20	1
D-8	49+17	50+97	R	180		1
D-9	54+20	58+34	R	372	40	2
D-10	58+36	64+00	R	520	40	3
TOTALS				1896	240	11

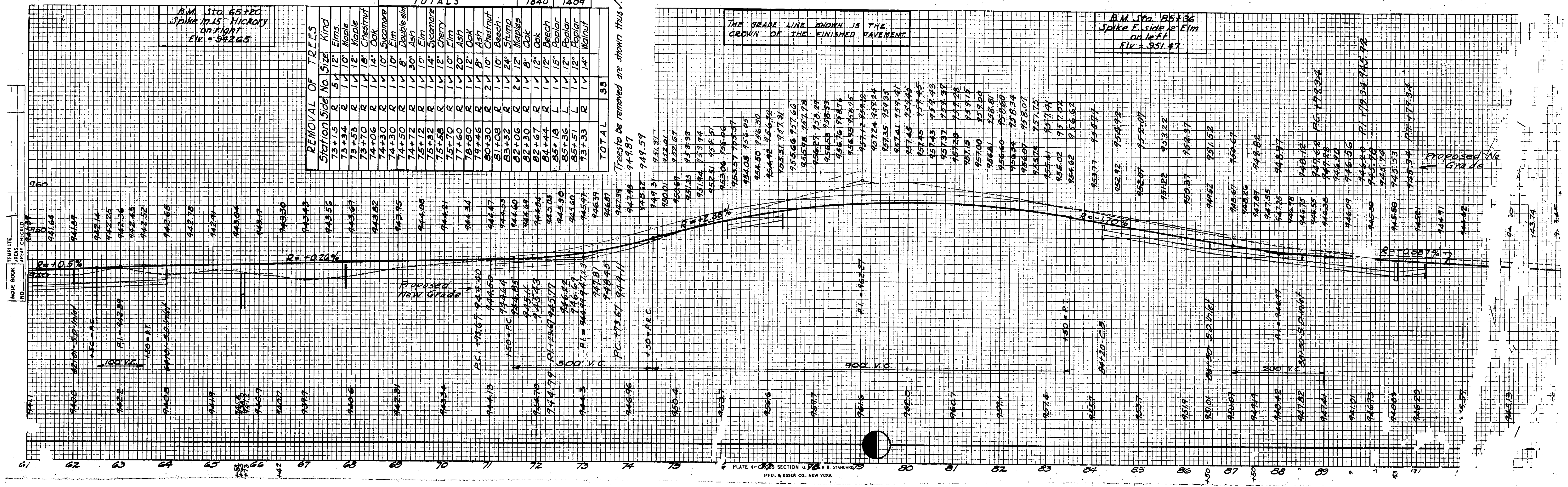
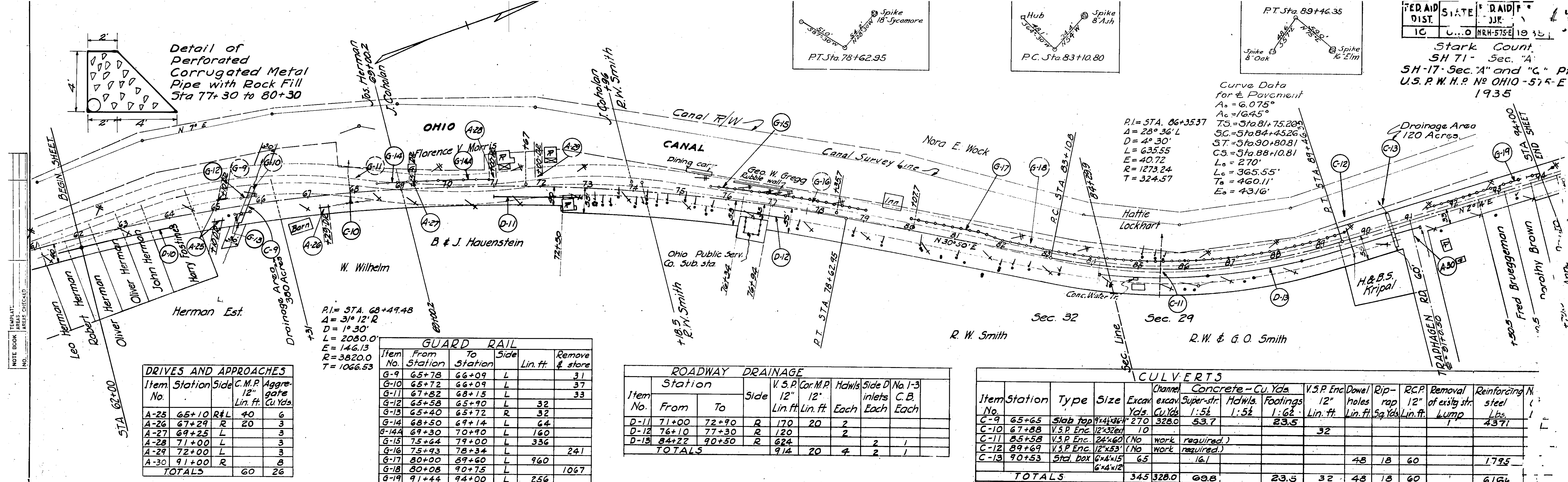
CULVERTS														
Item No.	Station	Type	Size	Excav. Yds.	Conc. 1:5:2 Cu. Yd.	R.C.P. 12" Lin. ft.	R.C.P. 18" Lin. ft.	R.C.P. 36" Lin. ft.	C.I.P. relaid 18" Lin. ft.	C.I.P. relaid 36" Lin. ft.	Removal Portions Exist. Mas. Cu. Yds.	No. 1-3 C.B. Each	No. 1-4 C.B. Each	Removal & Disposal 12" V.S.P. 12" Lin. ft.
C-3	37+18	R.C.P. # C.I.P.	36"x54"	65	1.7									
C-4	39+92	R.C.P.	12"x48"	30	0.6	48					0.3	1		40
C-5	45+50	R.C.P.	18"x72"	60	0.9		36				1.0	1		
C-6	47+74	R.C.P.	12"x56"	35	0.6	56					1.0	1		
C-7	50+98	R.C.P.	12"x48"	20	0.6	48						1		
C-8	58+35	R.C.P.	12"x70"	45	0.9		40		30		1.0	1		
TOTALS				235	5.3	152	76	20	66	30	3.3	5	1	40

THE GRADE LINE SHOWN IS THE CROWN OF THE FINISHED PAVEMENT.

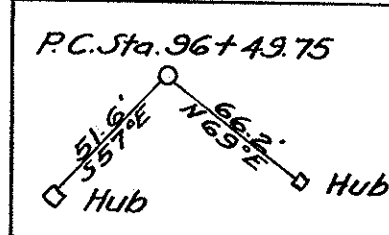


Sta. 12+00 to Sta. 19+53.6
Excavation = 9361 + 78 in drives = 9446 cu. yds.
Embankment = 7113 + 438 = 7557
Emb. + 25% = 9446

Note - 430 cu. yds. embankment included to fill where top soil is removed.

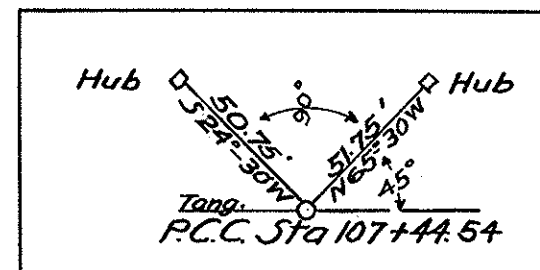


DRIVES AND APPROACHES				
Item No.	Station	Side	C.M.P. 12" Lin. ft.	Aggregate Cu. Yds.
A-31	98+96	R		3
A-32	99+40	L		8
A-33	99+40	R		12
A-34	101+55	R	20	3
TOTALS			20	26

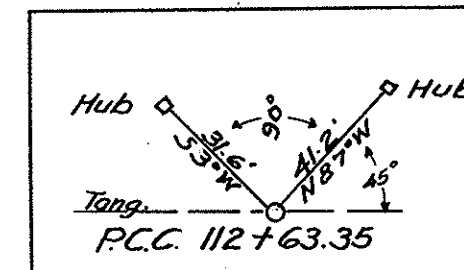


$P.I. = STA. 102+03.8$
 $\Delta = 21^{\circ} 54' L$
 $D = 2^{\circ} 00'$
 $L = 1095'$
 $E = 49.25'$
 $R = 2864.73'$
 $T = 554.25'$

GUARD RAIL					
Item No.	From Station	To Station	Side	Lin. ft.	Remove and store
G-20	94+00	97+84	L	384	
G-21	102+22	126+00	L	2400	2378
G-22	102+00	126+00	L	2400	
G-23	118+80	120+40	R	160	
G-24	118+89	120+19	R		130
TOTALS				2944	2508



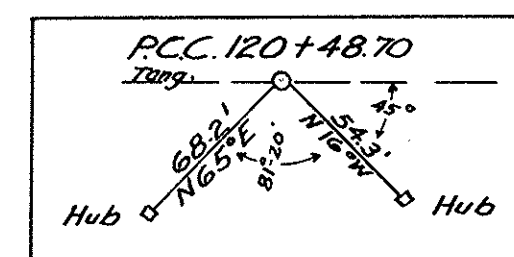
$P.I. = STA. 110+06.79$
 $\Delta = 20^{\circ} 45' L$
 $D = 4^{\circ} 00'$
 $L = 518.75'$
 $E = 23.8'$
 $R = 1432.4'$
 $T = 262.24'$



$P.I. = STA. 116+59.85$
 $\Delta = 19^{\circ} 38' L$
 $D = 2^{\circ} 30'$
 $L = 785.33'$
 $E = 34.0'$
 $R = 2291.83'$
 $T = 396.55'$

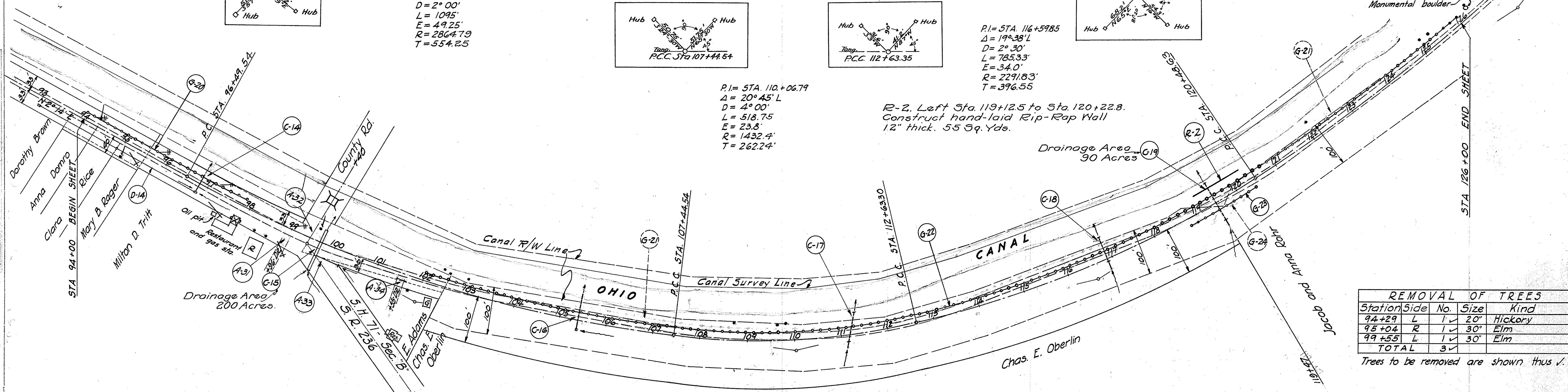
R-2. Left Sta. 119+12.5 to Sta. 120+22.8.
 Construct hand-laid Rip-Rap Wall
 12" thick. 55 Sq. Yds.

ROADWAY DRAINAGE							
Item No.	Station	Side	V.S.P. 12" Lin. ft.	Cor. M.P. 12" Lin. ft.	Hdwls. Each	Side D. inlets Each	No. 1-3 C.B. Each
D-14	93+01	96+81	R	378		1	1
TOTALS			378			1	1



FED. AID DIST.	STATE	FED. AID PROJECT	FISCAL YEAR	6
10	OHIO	NRH-575-E	1935	34

Stark County
 SH-71 Sec. "A"
 SH-17 Sec. "A" and "Q" Pt.
 U.S.P.W.H.R. No. OHIO-NRH-575-E
 1935



REMOVAL OF TREES				
Station	Side	No.	Size	Kind
94+29	L	1	20"	Hickory
95+04	R	1	30"	Elm
99+55	L	1	30"	Elm
TOTAL		3		

Trees to be removed are shown thus ✓.

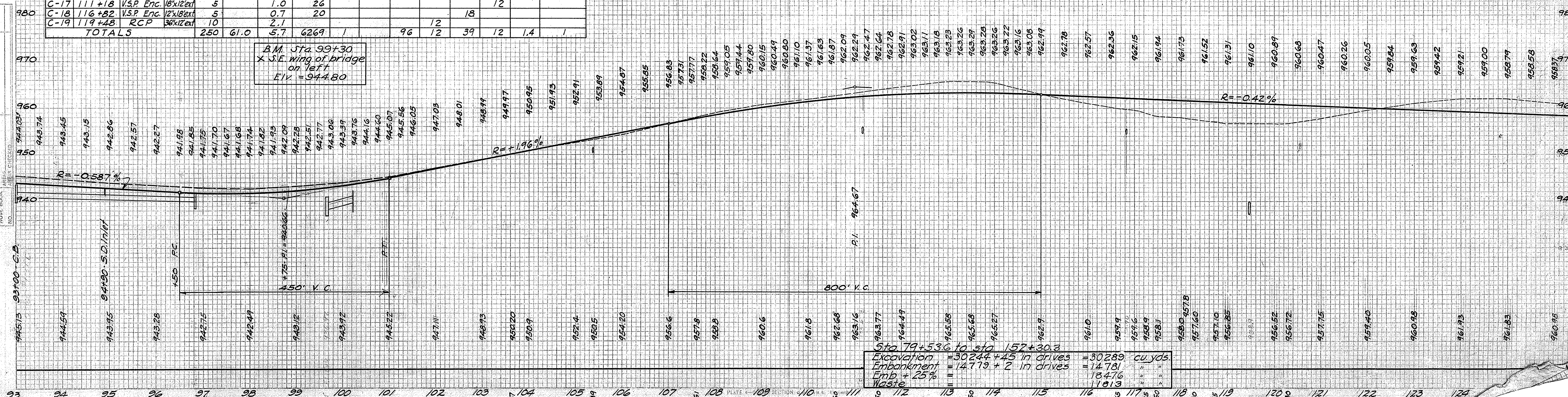
CULVERTS														
Item No.	Station	Type	Size	Excav. Cu. Yds.	Concrete Superstr. 1:5 1/2	Reinforc. Hdwls. 1:5 1/2	Na. 1-3 steel C.B. Lbs.	RCP 12" Lin. ft.	RCP 18" Lin. ft.	RCP 36" Lin. ft.	V.S.P. End 12" Lin. ft.	V.S.P. End 18" Lin. ft.	Rip-rap existg str. # Yds.	Removal of Lump
C-14	96+82	RCP	18x44"	20	0.9			1	44					
C-15	99+67	Conc. box RCP	6x24x34 18"x44"	200	60.1		6200		52					1
C-16	105+39	V.S.P. Enc.	12x60"	10		1.9	23				21		1.4	
C-17	111+18	V.S.P. Enc.	18x120"	5		1.0	26					12		
C-18	116+82	V.S.P. Enc.	12x180"	5		0.7	20				18			
C-19	119+48	RCP	36x120"	10		2.1				12		12		
TOTALS				250	61.0	5.7	6269	1	96	12	39	12	1.4	1

B.M. Sta. 99+30
 X S.E. wing of bridge
 on left
 Elev. = 944.80

B.M. Sta. 111+40
 Spike 5" Dogwood
 on right
 Elev. 966.79

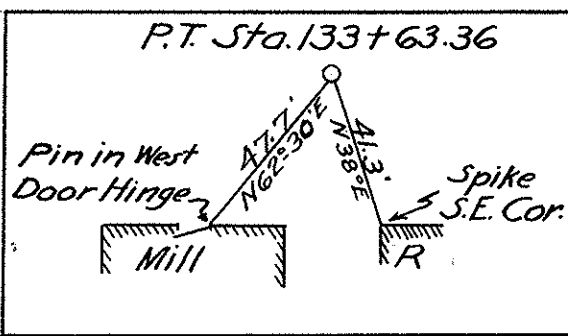
THE GRADE LINE SHOWN IS THE
 CROWN OF THE FINISHED PAVEMENT.

B.M. Sta. 126+30
 Cork plate on Treaty Boulder
 on left
 Elev. = 962.60



Sta. 79+53.6 to Sta. 157+30.3
 Excavation = 30244 + 45 in drives = 30289 cu. yds.
 Embankment = 14719 + 2 in drives = 14721 " "
 Waste = 18476 " "
 1913

REMOVAL OF TREES				
Station	Side	No.	Size	Kind
142+81	L	1	20	Elm
160+66	L	1	15	Hickory
TOTAL		2		



GUARD RAIL					
Item No.	From Station	To Station	Side	Lin. ft.	Remove and store
G-25	126+00	136+72	L	1072	
G-26	126+83	127+88	R		105
G-27	126+00	136+96	L		1096
G-28	126+80	127+76	R	96	
G-29	145+47	148+10	L		263
G-30	144+10	148+10	L	400	
G-31	148+00	150+00	R&L		200
G-32	150+00	157+84	L	784	
G-33	148+00	158+00	R	1000	
TOTALS				3352	1664

DRIVES AND APPROACHES				
Item No.	Station	Side	C.M.P. 12" Lin. ft.	Aggregate Cu. Yds.
A-35	132+40	R	-	3
A-36	132+66	R	-	3
A-37	134+45	R	-	3
A-38	136+89.1	R	-	8
A-39	136+99.1	L	-	8
A-40	139+48	R	-	3
A-41	140+69	R	-	9
A-42	143+88	R	-	3
A-43	144+47	R	-	3
A-44	145+21	R	-	6
A-45	146+50	R	-	6
A-46	148+50	L	-	10
TOTALS				59

ROADWAY DRAINAGE							
Item No.	Station From	Station To	Side	V.S.P. 12" Lin. ft.	Cor.M.P. 12" Lin. ft.	Hdwls. Each	Side D. inlets Each
D-15	132+31	136+23	R	330	60		1
D-16	136+26	137+18	R	50	42		1
D-17	142+01	148+31	R	594	30	1	3
TOTALS				974	132	1	5

FED. AID DIST.	STATE	FED. AID PROJECT	FISCAL YEAR	
IO	OHIO	NRH-575-E	1935	34

Stark County
SH-71 Sec. "A"
SH-17 Sec. "A" and "Q" Pt.
U.S.P.W.H.P. No. OHIO-NRH-575-E
1935

PI = STA. 127+12.42
Δ = 19° 43' L
D = 1° 30'
L = 1314.44
E = 57.3'
R = 3819.72'
T = 663.73

R-3. Left Sta. 145+20 to Sta. 147+90.
Place 270 Sq. Yds. Hand Laid Rip Rap
on 1 to 1 slope.

6' stone and concrete
arch under canal.
ST-21-132

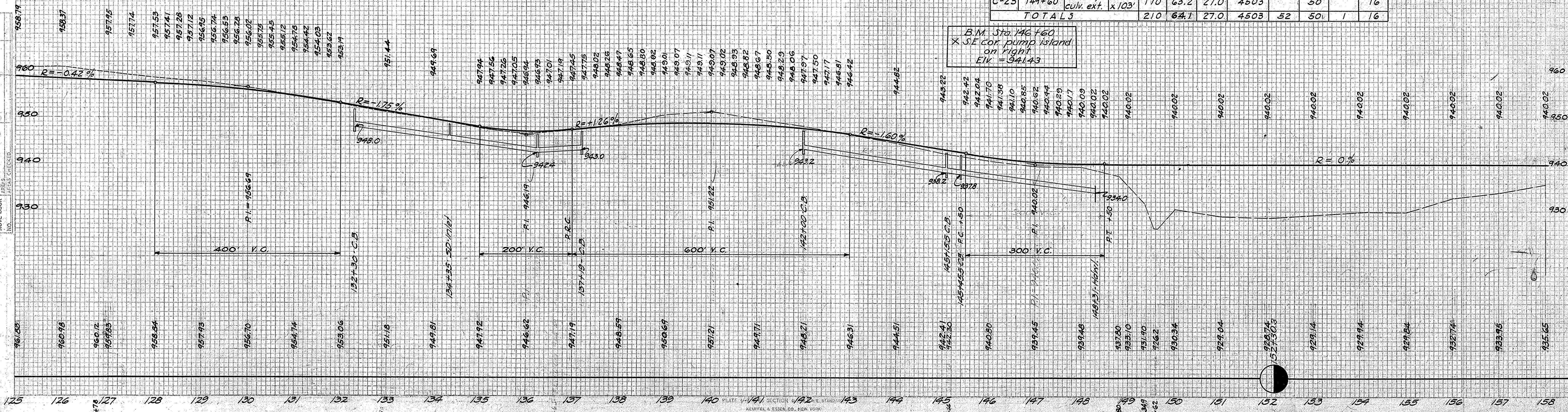
Note: Existing pavement to remain
in place, left Sta. 148+10 to Sta. 166+85

CULVERTS									
Item No.	Station	Type	Size	Excav. Cu. Yds.	Concrete Superst. 1:52	Reinforc. Footings 1:62	R.C.P. 18" steel Lbs.	R.C.P. 30" Lin. ft.	Na-1-3 C.B. Each
C-20	127+28	R.C.P.	12"x90"	No	work	required			
C-21	132+90	C.I.P. flume	36"x70"	"	"	"			
C-22	136+25	R.C.P.	18"x52"	40	0.9		52		1
C-23	149+60	Slab top culv. ext.	6'x4' x 103'	170	63.2	27.0	4503	50	16
TOTALS				210	64.1	27.0	4503	52	16

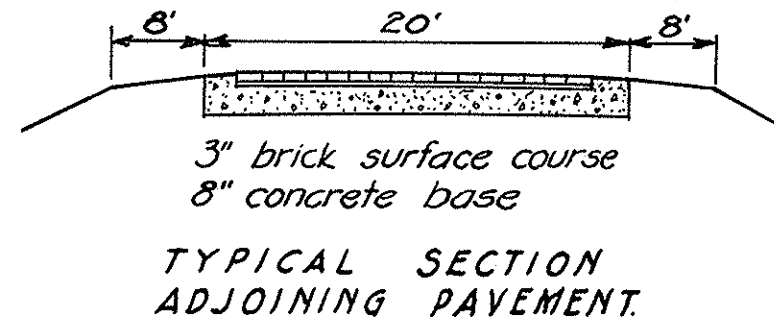
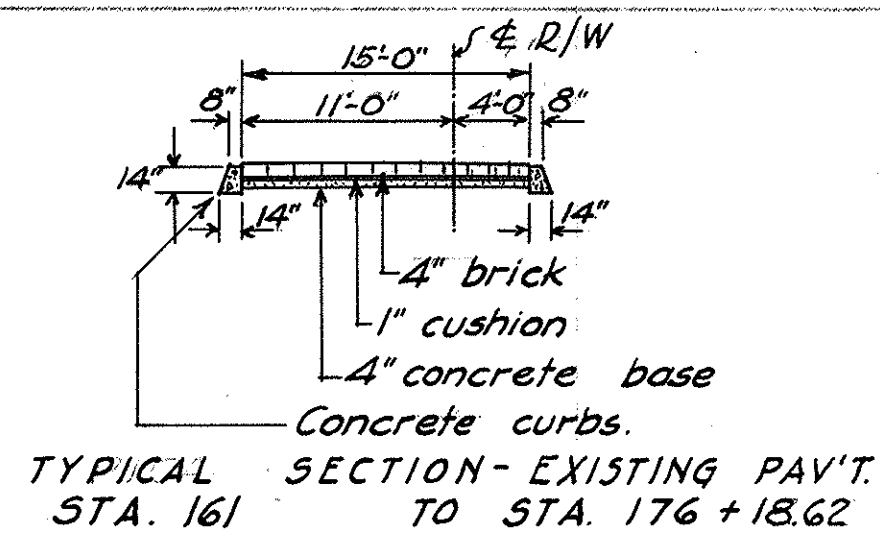
THE GRADE LINE SHOWN IS THE
CROWN OF THE FINISHED PAVEMENT.

B.M. Sta. 146+60
X SE cor. pump island
on right
Elev. = 941.43

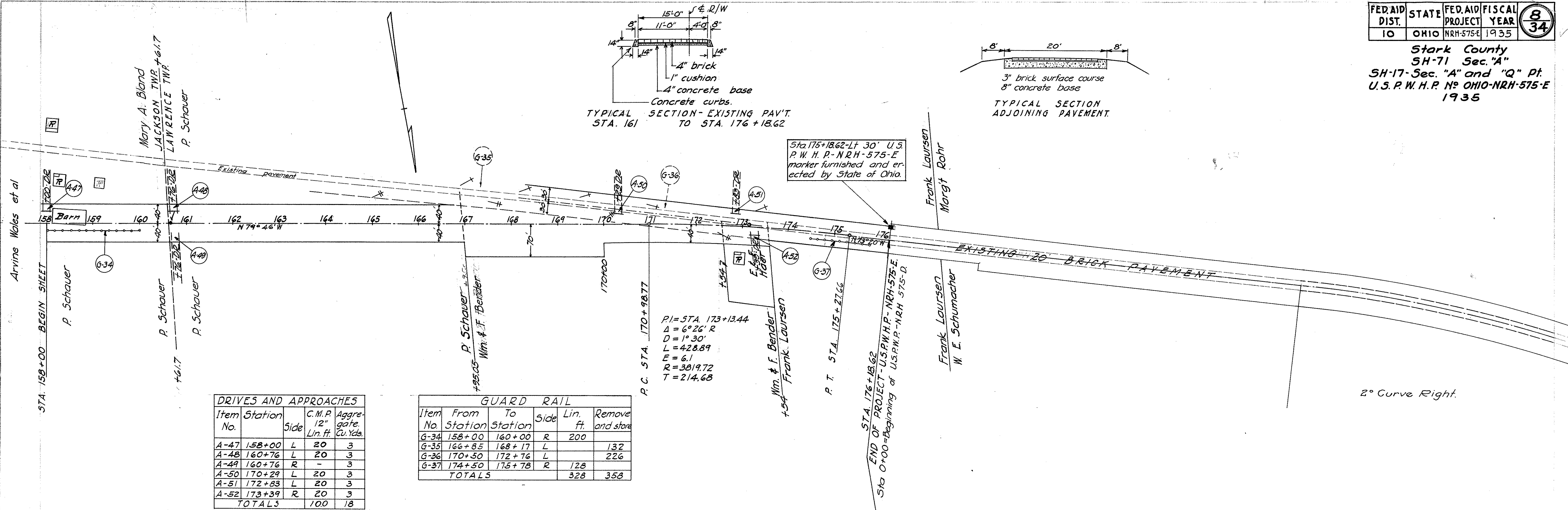
B.M. Sta. 126+30
Cor. of Plate on Treaty Boulder
Elev. = 962.60



Stark County
SH-71 Sec. "A"
SH-17 Sec. "A" and "Q" Pt.
U.S. P.W.H.P. No. OHIO-NRH-575-E
1935



Sta. 175+18.62-Lt 30' U.S.
P.W.H.P.-NRH-575-E
marker furnished and erected by State of Ohio.

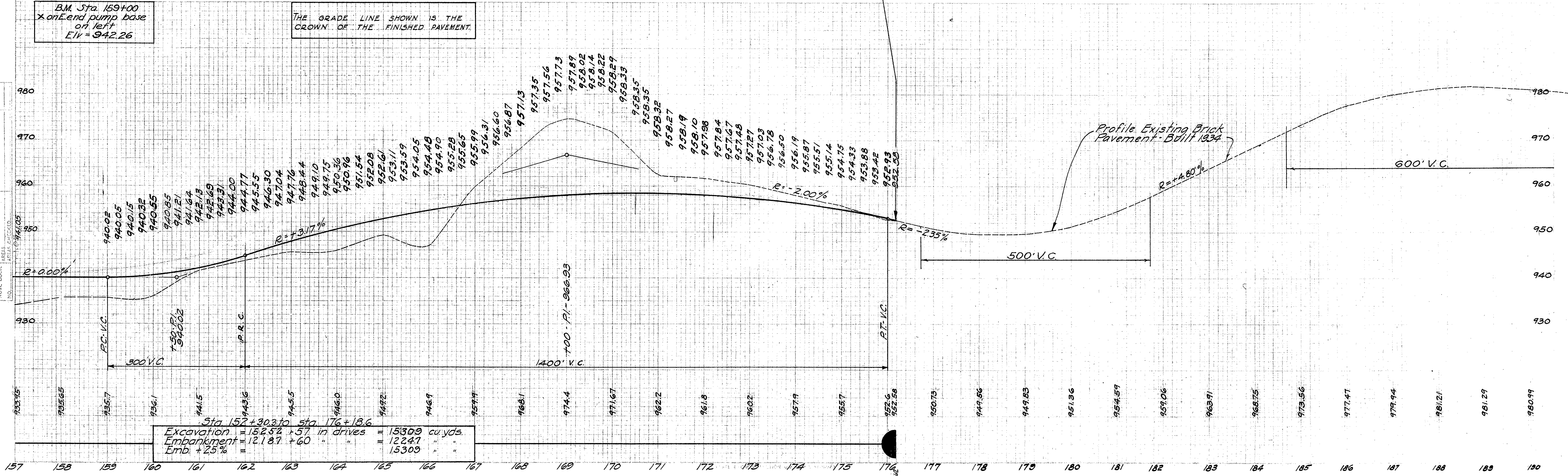


DRIVES AND APPROACHES				
Item No.	Station	Side	C.M.P. 12" Lin. Ft.	Aggregate Cu. Yds.
A-47	158+00	L	20	3
A-48	160+76	L	20	3
A-49	160+76	R	-	3
A-50	170+29	L	20	3
A-51	172+83	L	20	3
A-52	173+39	R	20	3
TOTALS			100	18

GUARD RAIL				
Item No.	From Station	To Station	Side	Remove and store
G-34	158+00	160+00	R	200
G-35	166+85	168+17	L	132
G-36	170+50	172+76	L	226
G-37	174+50	175+78	R	128
TOTALS				328

B.M. Sta. 159+00
x on end pump base
on left
Elev = 942.26

THE GRADE LINE SHOWN IS THE
CROWN OF THE FINISHED PAVEMENT.



Sta 152+30.3 to sta 176+18.62
Excavation = 152.52 + 57 in drives = 1530.9 cu. yds.
Embankment = 121.87 + 60 " " = 1224.7 " "
Emb. + 25% = 1530.9 " "