

#5025

3

FED. RD. DIST. NO.	STATE	PROJECT	FISCAL YEAR
10	OHIO		1939

SANDUSKY COUNTY
S.H. 931 SEC. "GIBSONBURG"(PT.)

STATE OF OHIO DEPARTMENT OF HIGHWAYS

HESSVILLE-GIBSONBURG-WEST ROAD

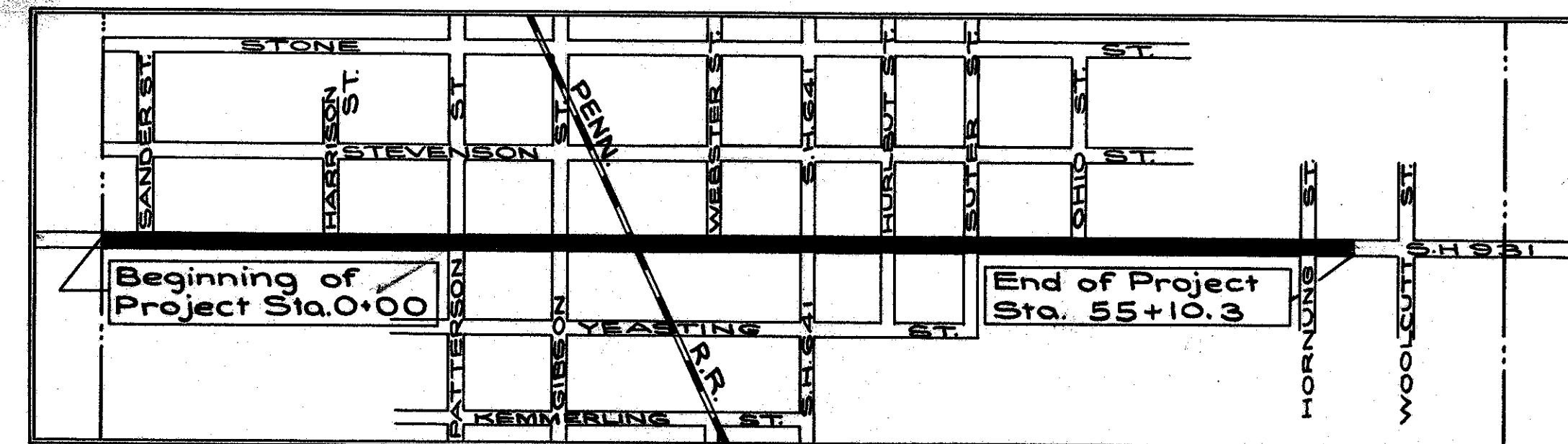
S.H. 931 SEC. "GIBSONBURG"(PT.)

SANDUSKY COUNTY

VILLAGE OF GIBSONBURG

CONVENTIONAL SIGNS

Township Line	-----
Section Line	- - - - -
City or Village Line	-----
Property Line	-----
Fence	- x - x -
Center Line	-----
Steam Railroad	===== ===== =====
Pole Line-Electric	- T - T - T -
Pole Line-Telephone	- T - T - T -



PART OF VILLAGE OF GIBSONBURG
Scale 1 inch = 500 ft.

The Standard Specifications of the State of Ohio, Department of Highways, including changes and Supplemental Specifications listed in the proposal shall govern this improvement.

I hereby approve these plans and declare that the making of this improvement will not require the closing to traffic of the highway.

The right of way necessary for this improvement will be provided by the State of Ohio.

Approved _____
Date _____ Resident District Deputy Director

Approved T. S. Adams
Date 8/1/39 Resident Division Deputy Director

Approved _____
Date _____ Chief Engineer, Bureau of Maintenance

Approved Albogue P.E. 25
Date 8-18-39 Chief Engineer, Location and Right-of-Way

Approved F. J. Jones
Date 8-19-39 First Asst. Director & Chief Engineer

Approved Robt. D. Beyletta
Date 8-19-39 Director of Highways

INDEX OF SHEETS

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LINE DATA

Beginning of Project Sta. 0+00
 End of Project Sta. 55+10.3
 Gross Length of Project = 5510.3 Lin. Ft.
 Deductions:-
 Railroad Crossing (Sta. 28+29.5 to 28+52.5) = 23.0 Lin. Ft.
 Railroad Crossing (Sta. 29+07 to 29+16.5) = 9.5 Lin. Ft.
 Total Deduction = 32.5 Lin. Ft.
 Net Length of Project = 5477.8 Lin. Ft. or 1.037 Miles.



Delivery Point - Gibsonburg
Average Haul - 0.50 Mile

LOCATION PLAN
Scale of Miles

Portion to be improved

State highways

Other roads

STANDARD NUMBER	DRAWINGS DATE
G-7.07	10-1933

SCALES

Plan 1" = 50'
 Profile-Horizontal 1" = 50'
 Vertical 1" = 5'
 Cross Sections 1" = 5'

CONSTRUCTION BUREAU
 JUL 13 1955
 GROUND PHOTOGRAPH

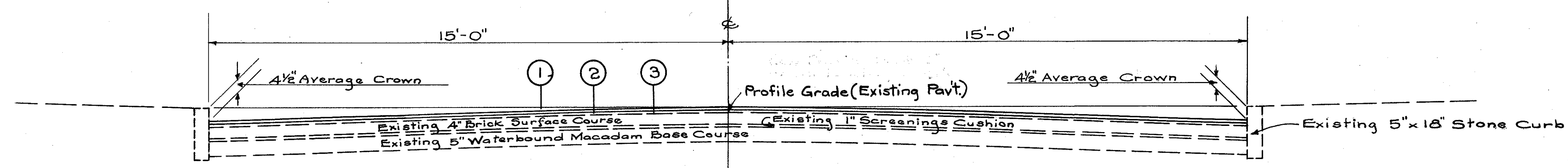
SUPPLEMENTAL SPECIFICATIONS
-None-

315

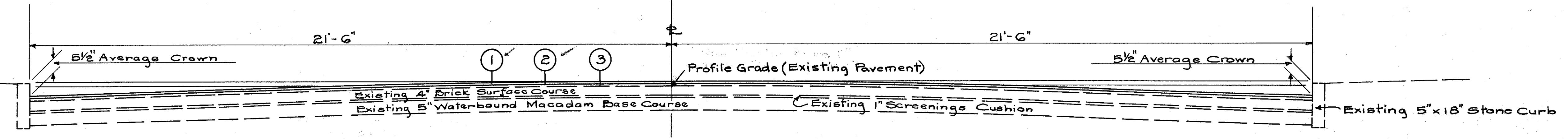
File No.	Sandusky County S.H. 931 Sec. "Gibsonburg"(Pt.)
Date of Letting	
Contract No.	

TYPICAL SECTION

TYPE - T-35



Typical Section :- Station 0+00 to Station 25+76 = 2576.0 Lin. Ft.
 Station 36+40.5 to Station 55+10.3 = 1869.8 Lin. Ft.
 Net Length = 4445.8 Lin. Ft.



Typical Section :- Station 25+76 to Station 36+40.5 = 1064.5 Lin. Ft.
 Deductions :- Double Railroad Tracks (Sta. 28+29.5 to 28+52.5) = 23.0 Lin. Ft.
 Single Railroad Track (Sta. 29+07 to 29+16.5) = 9.5 Lin. Ft.
 Total Deductions = 32.5 Lin. Ft.
 Net Length of Typical Section as above = 1032.0 Lin. Ft.

~ PAVEMENT COMPUTATIONS ~
 Beginning of Project Sta. 0+00. End of Project Sta. 55+10.3
 Gross Length of Project = 5510.3 Lin. Ft.
 Deductions :-
 Double Track Railroad Crossing (Sta. 28+29.5 to 28+52.5) = 23.0 Lin. Ft.
 Single Track Railroad Crossing (Sta. 29+07 to 29+16.5) = 9.5 Lin. Ft.
 Total Deductions = 32.5 Lin. Ft.
 Net Length of Project = 5477.8 Lin. Ft. or 1.037 Miles.
 Net Length of 30' Pavement (from Typical Section) = 4445.8 Lin. Ft.
 Area of 30' Pavement = (4445.8 x 30) ÷ 9 = 14819.33 Sq. Yds.
 Net Length of 43' Pavement (from Typical Section) = 1032.0 Lin. Ft.
 Area of 43' Pavement = (1032.0 x 43) ÷ 9 = 4930.67 Sq. Yds.
 Area of 30' Pavement + Area 43' Pavement = 19750.0 Sq. Yds.

Item T-30 Bituminous Prime Coat (0.10 Gal. per Sq. Yd.) applied only to area of Existing Pavement to be resurfaced =
 19750 x 0.10 = 1,975.0 Gals.
 Add for Intersections and Drives (From Summary) = 94.0 Gals.
 Total T-30 = 2069.0 Gals.
 Item B-35 Variable Thickness Leveling Course (1" Minimum Thickness).
 (19750 x 1) ÷ 36 = 548.61 Cu. Yds.
 Estimated Volume of Extra Leveling Course Material required to shape up from existing crown to new crown, to fill depressions in existing pavement, etc. = 125.0 Cu. Yds.
 Estimated Volume of Extra Leveling Course Material required at intersections and drives (From Summary) = 18.31 Cu. Yds.
 Total Variable Thickness, B-35 = 691.92 Cu. Yds.
 Use 692 Cu. Yds.
 Item T-35 1" Surface Course, Type "B"
 (19750 x 1) ÷ 36 = 548.61 Cu. Yds.
 Add for Intersections and Drives (Summary) = 25.78 Cu. Yds.
 Total T-35 = 574.39 Cu. Yds.
 Use 575 Cu. Yds.

- ① Item T-35, 1" Asphaltic Concrete Surface Course, Type "B"
- ② Item B-35, 1" Minimum Thickness Asphaltic Concrete Leveling Course
- ③ Item T-30, Bituminous Prime Coat using Bituminous Material, Sec. M-5.12 A.E. 3 applied at the rate of not more than 0.1 gal. per Sq. Yd. and Sand Cover, 4 to 7 lbs. per Sq. Yd.

~ GENERAL NOTES ~

TRAFFIC - Traffic shall be maintained at all times to the satisfaction of the Division Engineer. The item of maintaining shall include furnishing lights, signs, barricades and watchmen necessary to secure the unimpeded flow of traffic twenty-four (24) hours daily.

SANDING - Bituminous Prime Coat, Item T-30, of Bituminous Material Sec. M-5.12 A.E. 3, applied by Distributor or by Brooms at the rate of not more than 0.1 Gal. per Sq. Yd. and Sand Cover applied at the rate of 4 to 7 lbs. per Sq. Yd. After the Bituminous Material has been applied any material not required to give a uniform coating to the surface shall be swept into all open joints before the Sand Cover is placed. Payment for Sand Cover is included in the price bid per gallon for Bituminous Material.

Note:- T-35 Surface Course is to be feathered out at Railroad Crossings and at junction with existing pavements at beginning and end of project and at intersecting streets and private drives in the manner directed by the Engineer in Charge.

UTILITIES - Water Valve Boxes in the resurfaced areas shall be adjusted to the new grade by the Village of Gibsonburg.

MANHOLE & POOL GRATE ADJUSTED TO GRADE - Existing Manhole and Pool Grate Castings within the pavement area shall be adjusted to the surface level of the new Asphaltic Concrete Surface in a manner approved by the Engineer in Charge. Average adjustment equals approximately two (2) inches. The unit price bid per Existing Manhole and Pool Grate Castings Adjusted to Grade includes the payment for the necessary removal and reconstruction of existing pavement adjacent to the Manhole or Pool Grate Castings.

SUMMARY OF EXTRA PAVEMENT

Sheet No.	Area to be Surfaced Sq. Yds.	B-35 Variable Thickness Leveling Course Cu. Yds.	T-35 1" Surface Course Cu. Yds.	T-30 Bituminous Prime Coat Gals.
3	163.5	3.52	4.58	16.8
4	242.5	4.86	6.76	24.7
5	334.5	6.58	9.34	33.9
6	182.5	3.55	5.10	18.7
Totals	923.0	18.51	25.78	94.1

SUMMARY OF PAVEMENT REMOVAL

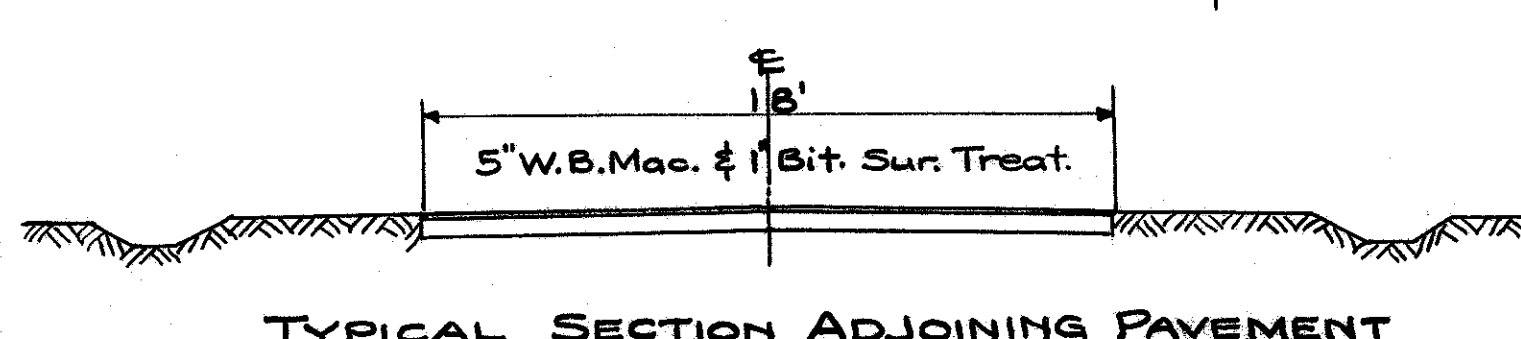
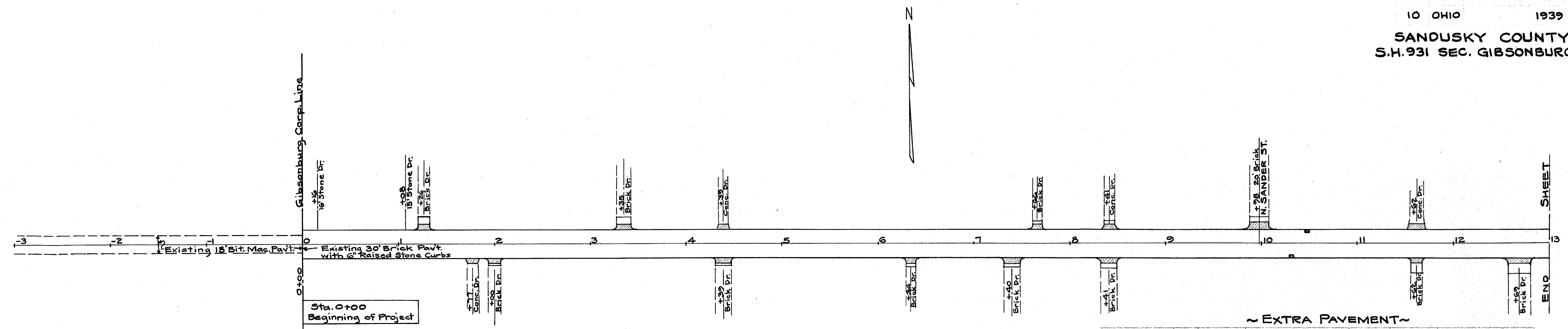
Sheet No.	Removal of Existing Bituminous Macadam Surface Course Sq. Yds.
3	15
4	
5	
6	
Total	15

SUMMARY OF MANHOLE TOPS & POOL GRATES ADJUSTED TO GRADE

Sheet No.	Existing Manhole Tops Adjusted to Grade Each	Existing Pool Grates Adjusted to Grade Each
3		2
4	1	
5	7	6
6	4	
Totals	12	8

~ GENERAL SUMMARY ~

Item	Description	Quantity	Unit
Roadway			
E-8	Removal of Existing Bituminous Macadam Surface Course	15	Sq. Yds.
I-8	Existing Pool Grate Inlet Castings Adjusted to Grade	8	Each
I-8	Existing Manhole Castings Adjusted to Grade	12	Each
Pavement			
T-30	Bituminous Prime Coat (Sec. M-5.12, A.E. 3) including sand cover	2069	Gal.
B-35	1" Minimum Thickness Asphaltic Concrete Leveling Course	692	Cu. Yds.
T-35	1" Asphaltic Concrete Surface Course, Type "B"	575	Cu. Yds.

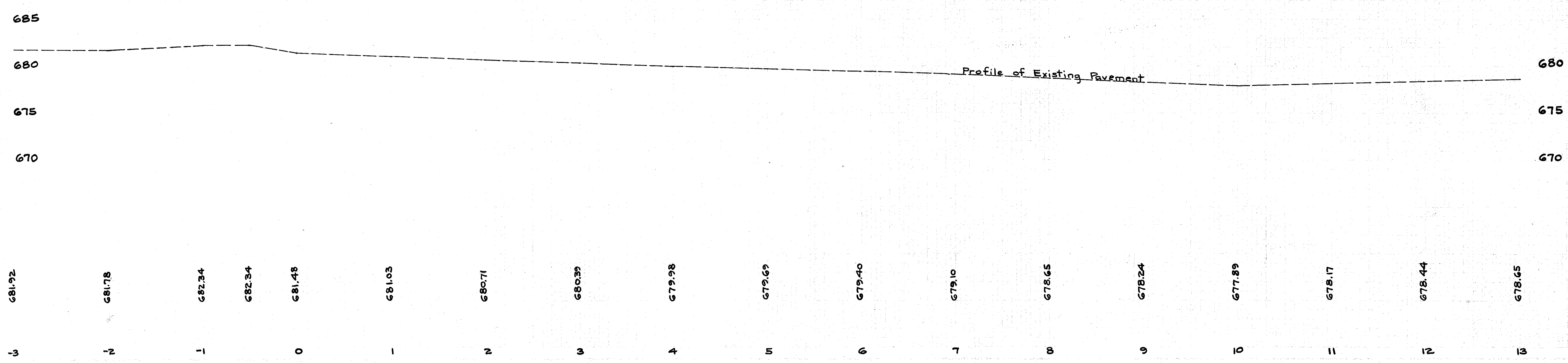


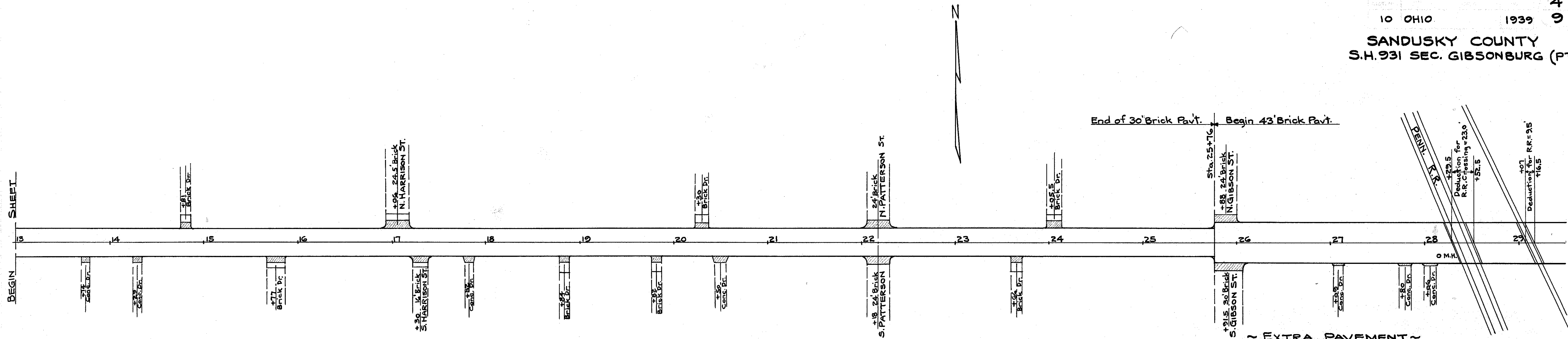
B.M. North Bolt Hydrant, Lt. of Sta. 0+55
 Elev. 683.13

PAVEMENT REMOVAL		
Station	From	To
	0+00	0+04.5
	Removal of Existing Bit. Mac. Surface Course	
	Sq. Yds. 15	
Total	15	

POOL GRATE INLETS ADJUSTED TO GRADE			
Station	Rt. or Lt.	Existing Pool Grates Adjusted to Grade	Each
10+39	Rt.	1	
10+49	Lt.	1	
Total		2	

~ EXTRA PAVEMENT ~								
Station	Rt. or Lt.	Width Lin. Ft.	Length to be Surfaced Lin. Ft.	Radius of Curved Curbs Lin. Ft.	Area to be Surfaced Sq. Yds.	B-35 Variable Thickness Leveling Course Cu. Yds.	T-35 Surface Course Cu. Yds.	T-30 Bituminous Prime Coat Gals.
0+16	Lt.				0			
1+08	Lt.				0			
1+26	Lt.	12.5	6.0	5	9.5	0.20	0.27	1.0
1+77	Rt.	8.0	6.0	3	5.5	0.10	0.16	0.6
2+00	Rt.	12.0	6.0	6	9.5	0.20	0.27	1.0
3+35	Lt.	15.0	6.0	6	11.5	0.25	0.32	1.2
4+39	Rt.	17.0	6.0	5	12.5	0.25	0.35	1.3
4+39	Lt.	8.0	6.0	5	5.5	0.10	0.16	0.6
6+34	Rt.	10.0	6.0	5	8.0	0.18	0.22	0.8
7+40	Rt.	17.0	6.0	5	12.5	0.25	0.35	1.3
7+66	Lt.	10.0	6.0	5	8.0	0.18	0.22	0.8
8+41	Lt.	10.0	6.0	3	8.0	0.18	0.22	0.8
8+41	Rt.	17.0	6.0	5	12.5	0.25	0.35	1.3
9+98	Lt.	20.0	6.0	8	21.0	0.40	0.59	2.1
11+62	Rt.	11.5	6.0	3	8.0	0.18	0.22	0.8
11+62	Lt.	18.0	6.0	3	12.5	0.25	0.35	1.3
12+69	Rt.	24.0	6.0	8	19.0	0.35	0.53	1.9
Totals					163.5	3.32	4.58	16.8



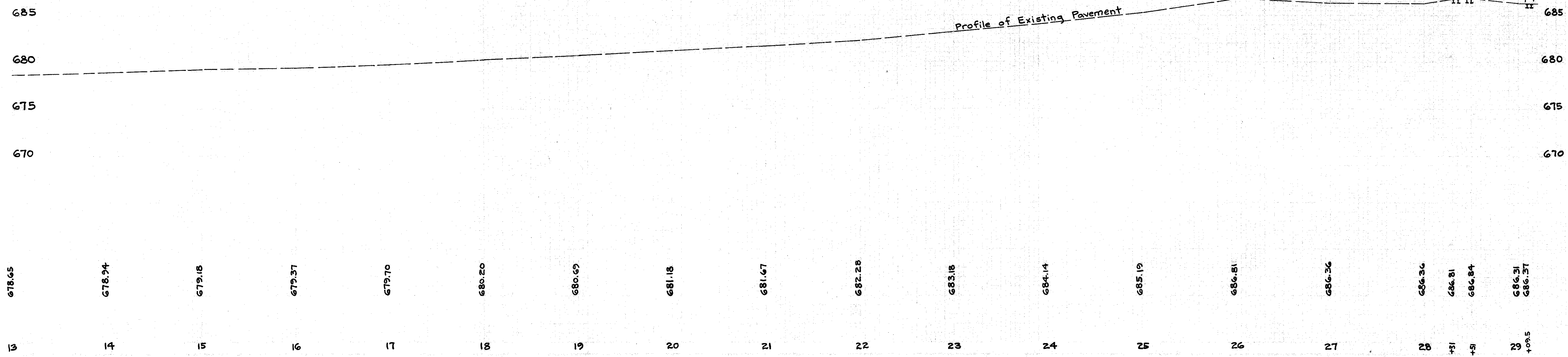


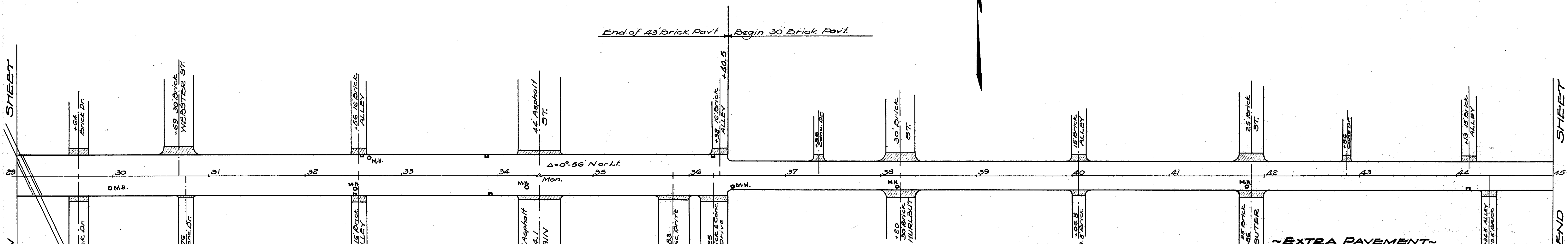
MANHOLE TOPS ADJUSTED TO GRADE

Station	Rt. or Lt.	Existing M.H. Tops Adjusted to Grade - Each
28+15	Rt.	1
Total		1

EXTRA PAVEMENT

Station	Rt. or Lt.	Width Lin. Ft.	Length to be Surfaced Lin. Ft.	Radius of Curved Curbs Lin. Ft.	Area to be Surfaced Sq. Yds.	B-35 Variable Thickness Leveling Course Cu. Yds.	T-35 Surface Course Cu. Yds.	T-30 Bituminous Prime Coat Cu. Yds.
13+74	Rt.	8.0	6	2	5.5	0.10	0.16	0.6
14+29	Rt.	9.0	6	2	6.0	0.10	0.17	0.6
14+81	Lt.	10.5	6	1	7.0	0.15	0.19	0.7
15+77	Rt.	19.5	6	1	13.0	0.25	0.36	1.3
17+06	Lt.	24.5	8	8	25.0	0.50	0.70	2.5
17+30	Rt.	16.0	6	6	12.5	0.25	0.35	1.3
17+82	Rt.	8.0	6	2	5.5	0.10	0.16	0.6
18+84	Rt.	9.5	6	1	6.5	0.15	0.18	0.7
19+82	Rt.	10.5	6	1	7.0	0.15	0.19	0.7
20+30	Lt.	11.5	6	1	10.0	0.20	0.28	1.0
20+50	Rt.	17.0	6	6	8.5	0.18	0.24	0.9
22+18	Rt.	24.0	8	8	24.5	0.50	0.68	2.5
22+18	Lt.	24.0	8	8	24.5	0.50	0.68	2.5
23+66	Rt.	11.5	6	1	8.0	0.18	0.22	0.8
24+05.5	Lt.	15.5	8	2	14.0	0.30	0.39	1.4
25+88	Lt.	24.0	8	8	24.5	0.50	0.68	2.5
25+91.5	Rt.	30.0	8	8	30.0	0.60	0.84	3.0
27+09	Rt.	14.0	8	8	3.0	0.05	0.08	0.3
27+80	Rt.	15.0	8	8	3.0	0.05	0.08	0.4
28+06	Rt.	16.0	8	8	4.0	0.05	0.11	0.4
Totals					242.5	4.86	6.76	24.7



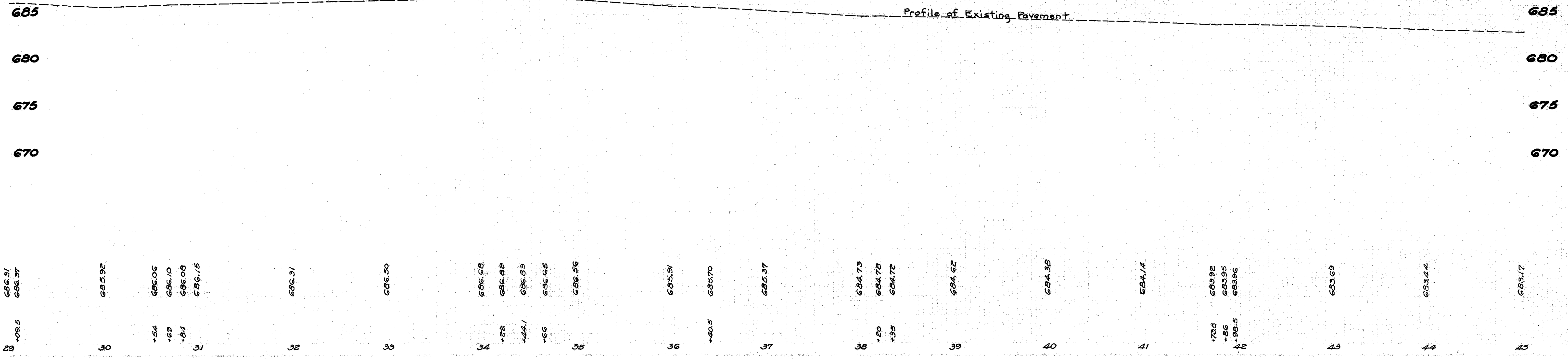


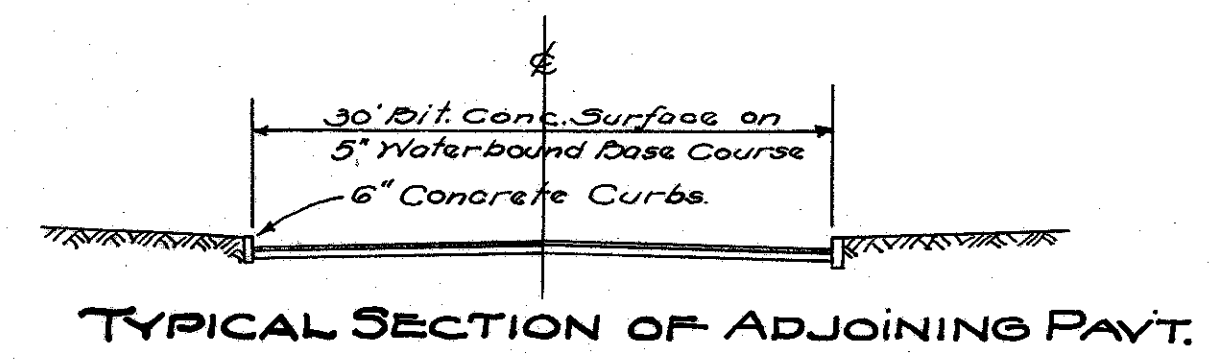
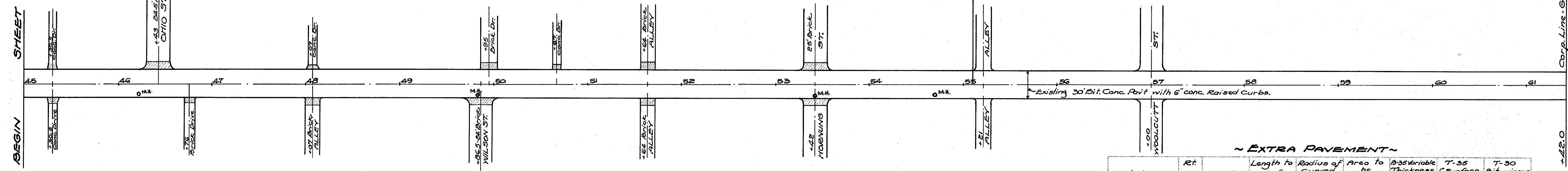
MANHOLE TOPS AND POOL GRATE INLETS ADJUSTED TO GRADE

Station	Rt. or Lt.	Existing M.H. or Top Adjusted to Grade-Each	Existing Pool Grates Adjusted to Grade-Each
29+97	Rt.	1	
32+52	Rt.		1
32+53	Rt.	1	
32+60	Lt.		1
32+66	Lt.	1	
33+90	Lt.		1
33+94	Rt.		1
34+34	Rt.	1	
36+24	Lt.		1
36+46	Rt.	1	
38+18	Rt.	1	
41+82	Rt.	1	
44+11	Rt.		1
Totals		7	6

EXTRA PAVEMENT

Station	Rt. or Lt.	Width Lin. Ft.	Length to be Surfaced Lin. Ft.	Radius of Curbs Lin. Ft.	Area to be Surfaced Sq. Yds.	3-35 Variable Thickness Leveling Course Cu. Yds.	7-35 Surface Course Cu. Yds.	7-30 Bituminous Prime Coat Gals.
29+64	Rt.	20.0	6	1	13.5	0.25	0.38	7.4
29+64	Lt.	20.0	6	1	13.5	0.25	0.38	7.4
30+69	Lt.	30.0	8	8	30.0	0.60	0.84	3.0
30+76	Rt.	17.5	2	1	4.0	0.05	0.11	0.4
32+56	Rt.	16.0	6	1	10.5	0.20	0.29	1.1
32+56	Lt.	16.0	6	1	10.5	0.20	0.29	1.1
34+44.1	Rt.	44.0	4	4	20.0	0.40	0.56	2.0
34+44.1	Lt.	44.0	4	4	20.0	0.40	0.56	2.0
35+83	Rt.	36.0	4	2	16.5	0.35	0.46	1.7
36+25	Rt.	28.0	6	6	20.5	0.40	0.57	2.1
36+32	Lt.	16.0	6	6	12.5	0.25	0.35	1.3
37+35	Lt.	10.0	6	1	7.0	0.15	0.19	0.7
38+20	Rt.	30.0	8	8	30.0	0.60	0.84	3.0
38+20	Lt.	30.0	8	8	30.0	0.60	0.84	3.0
40+06.5	Rt.	13.5	6	1	9.0	0.18	0.25	0.9
40+06.5	Lt.	15.0	6	1	10.0	0.20	0.28	1.0
41+86	Rt.	25.0	8	8	25.5	0.50	0.71	2.6
41+86	Lt.	25.0	8	8	25.5	0.50	0.71	2.6
42+86	Lt.	8.0	6	2	5.5	0.10	0.16	0.6
44+13	Lt.	15.0	6	1	10.0	0.20	0.28	1.0
44+34.5	Rt.	15.5	6	1	10.5	0.20	0.29	1.0
Totals					334.5	6.58	9.34	33.9





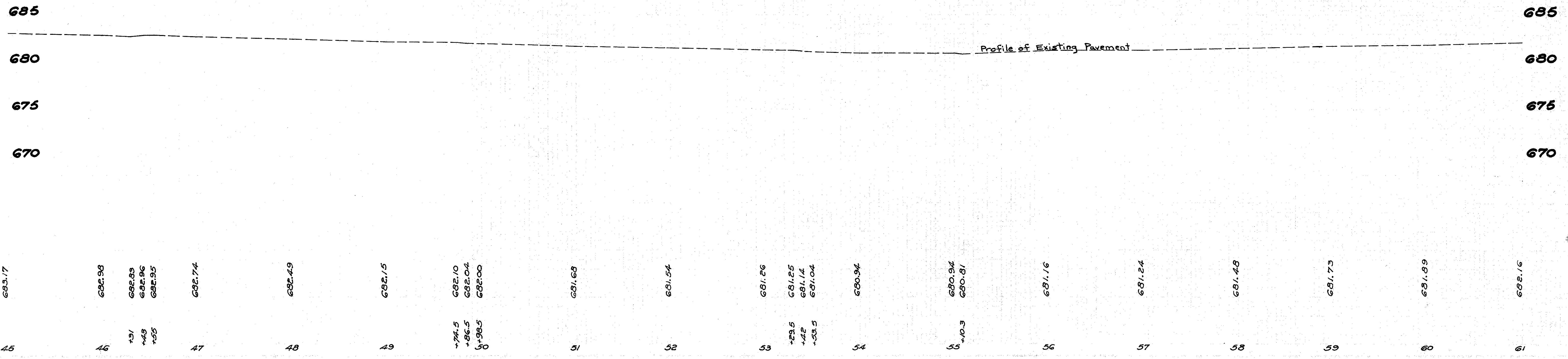
MANHOLE TOPS AND POOL GRATE INLETS ADJUSTED TO GRADE

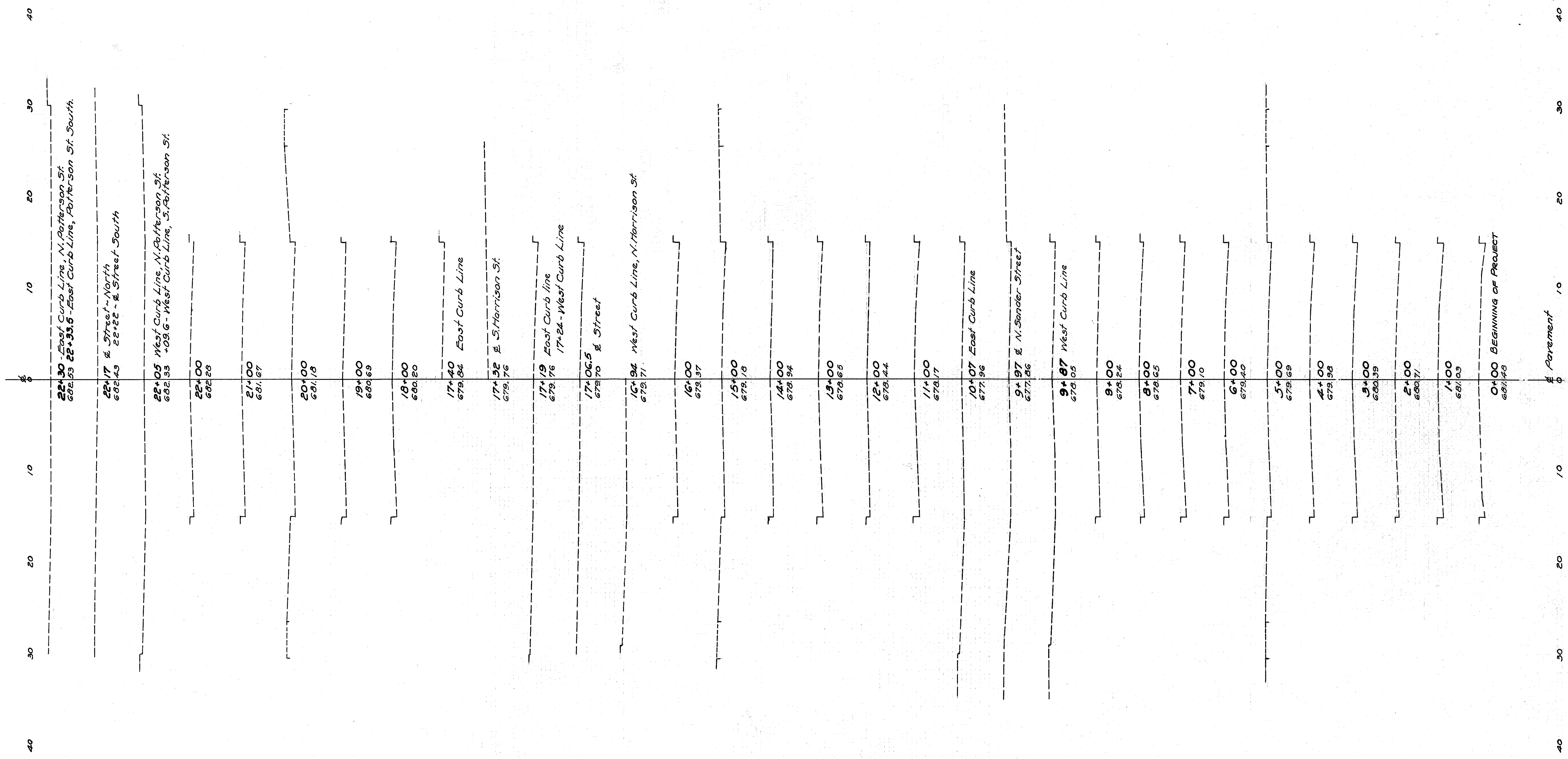
Station	Rt. or Lt.	Existing M.H. Tops Adjusted to Grade - Each	Existing Pool Grates Adjusted to Grade - Each
46+21	Rt.	1	
49+86	Rt.	1	
53+42	Rt.	1	
54+70	Rt.	1	
Totals		4	

B.M. N.E. Cor. 1st Step-Residence #605 E. Madison St.
 Elev. 682.35

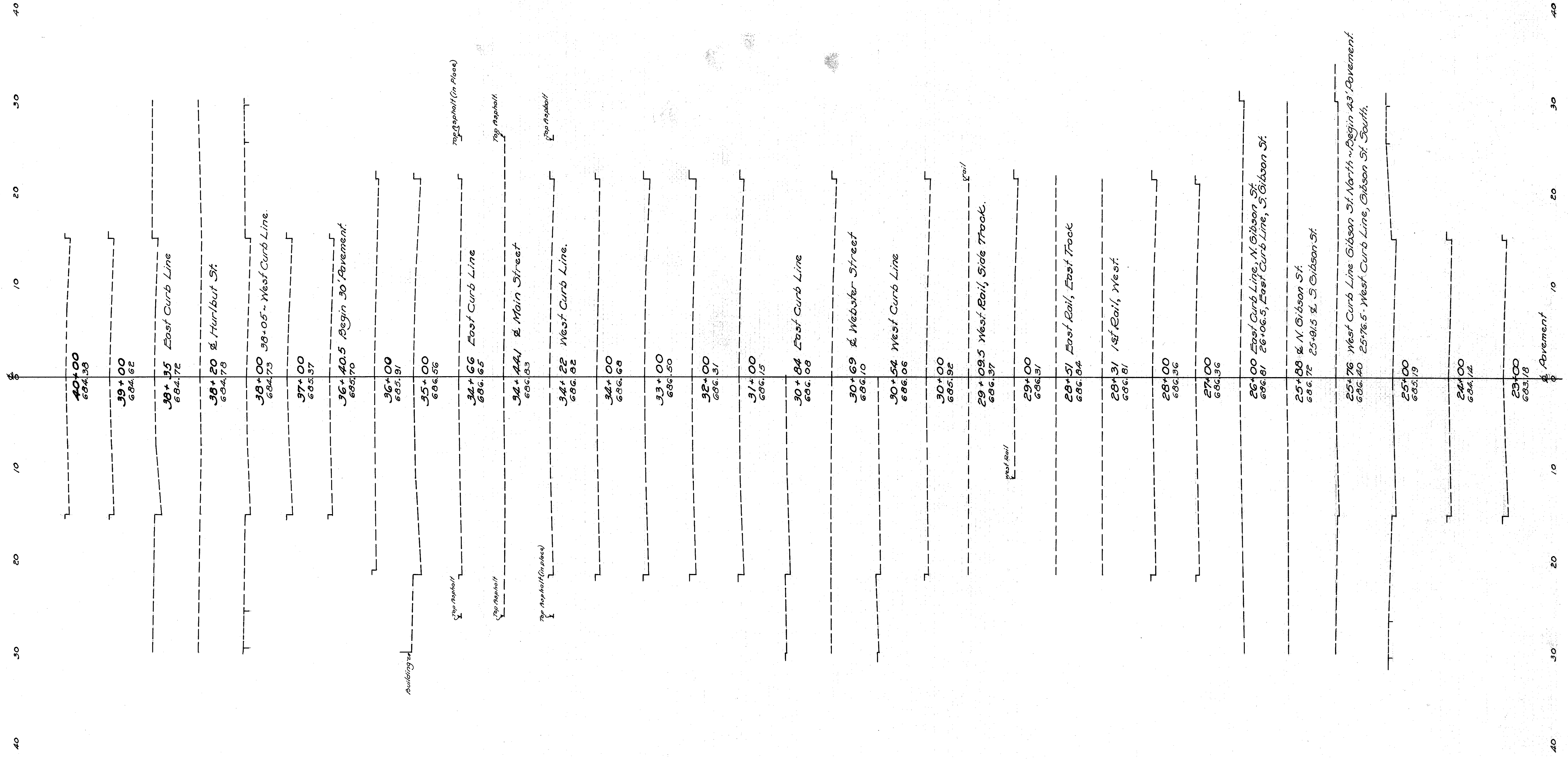
EXTRA PAVEMENT

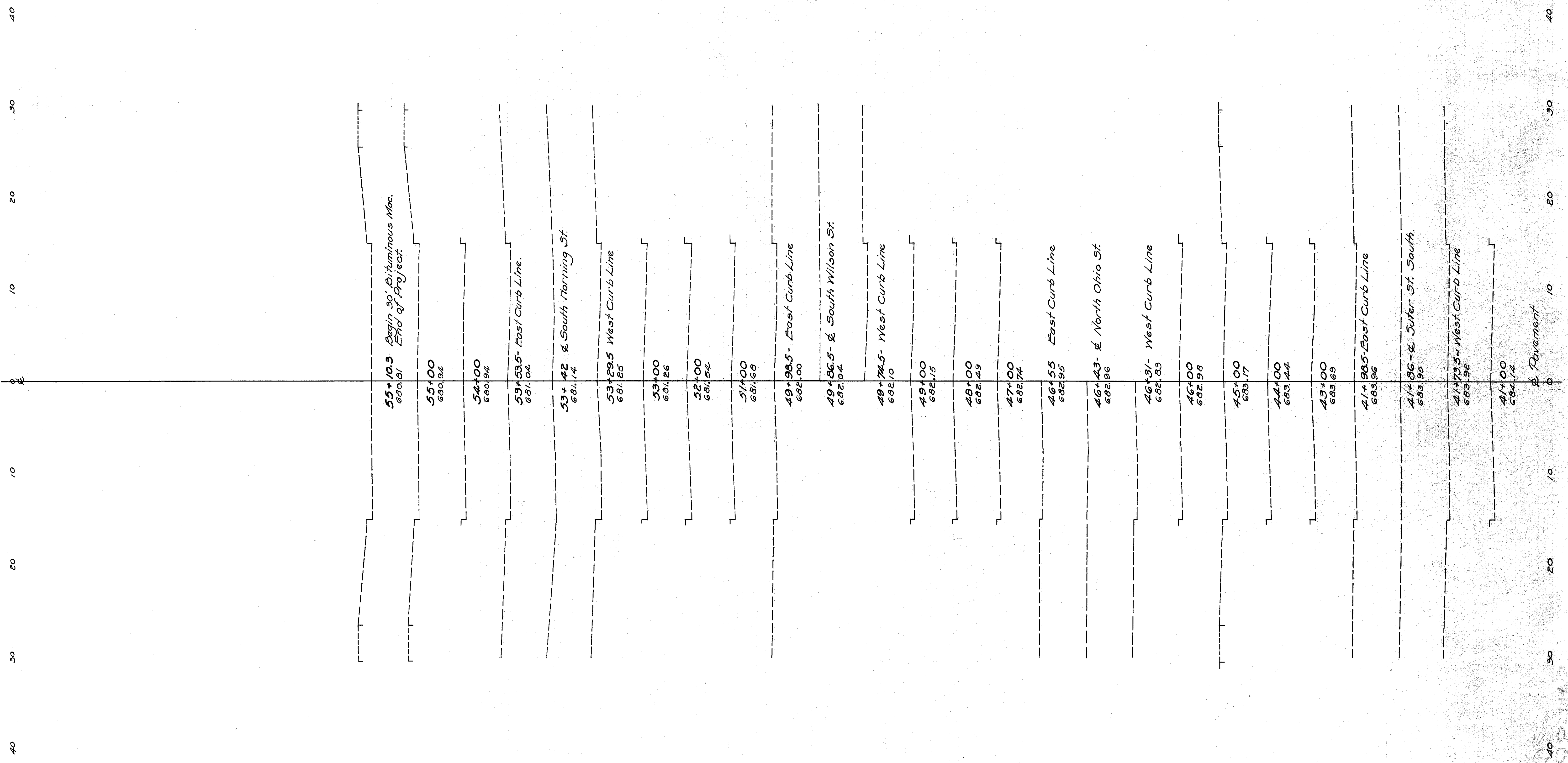
Station	Rt. or Lt.	Width Lin. Ft.	Length to be Surfaced Lin. Ft.	Radius of Curved Curbs Lin. Ft.	Area to be Surfaced Sq. Yds.	Thickness of Leveling Course Cu. Yds.	T-35 Surface Course Cu. Yds.	T-30 Bituminous Prime Coat Gal.
45+30.5	Rt.	10.0	6	2	7.0	0.15	0.19	0.7
45+30.5	Lt.	8.0	6	1	5.6	0.10	0.16	0.6
46+43	Lt.	24.5	8	3	25.0	0.50	0.70	2.5
46+76	Rt.	10.5	6	2	7.0	0.15	0.19	0.7
48+07	Rt.	15.0	8	1	13.5	0.25	0.38	1.4
48+07	Lt.	12.0	4	1	5.3	0.10	0.16	0.6
49+36.5	Rt.	24.0	8	3	24.5	0.50	0.68	2.5
49+36.5	Lt.	17.5	6	1	11.5	0.20	0.32	1.2
50+67	Lt.	7.0	6	1	5.0	0.10	0.14	0.5
51+64	Rt.	15.0	8	1	13.5	0.25	0.38	1.4
51+64	Lt.	15.0	8	1	13.5	0.25	0.38	1.4
53+42	Rt.	25.0	8	3	25.5	0.50	0.71	2.6
53+42	Lt.	25.0	8	3	25.5	0.50	0.71	2.6
Totals					182.5	3.55	5.10	18.7





40 30 20 10 0 10 20 30 40
 \$ Pavement





55+10.3 Begin 30' Bituminous Mac.
 680.81 End of Project

551.00
 680.94

541.00
 680.94

53+53.5- East Curb Line.
 681.04

53+42 & South Morning St.
 681.14

53+29.5 West Curb Line
 681.25

531.00
 681.26

521.00
 681.54

511.00
 681.68

49+98.5- East Curb Line
 682.00

49+86.5- & South Wilson St.
 682.04

49+74.5- West Curb Line
 682.10

491.00
 682.15

481.00
 682.49

471.00
 682.74

46+55 East Curb Line
 682.95

46+43- & North Ohio St.
 682.96

46+31- West Curb Line
 682.83

461.00
 682.98

451.00
 683.17

441.00
 683.44

431.00
 683.69

41+98.5- East Curb Line
 683.96

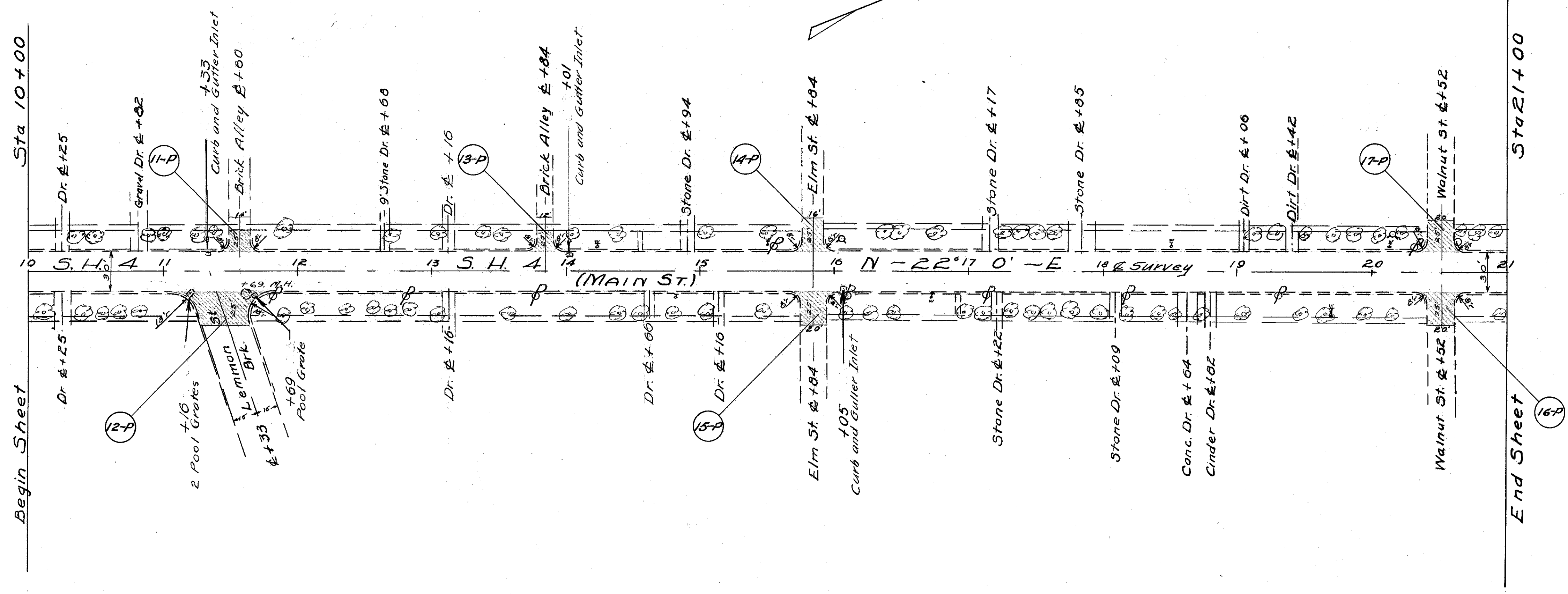
41+86- & Suter St. South.
 683.96

41+73.5- West Curb Line
 683.92

411.00
 684.14

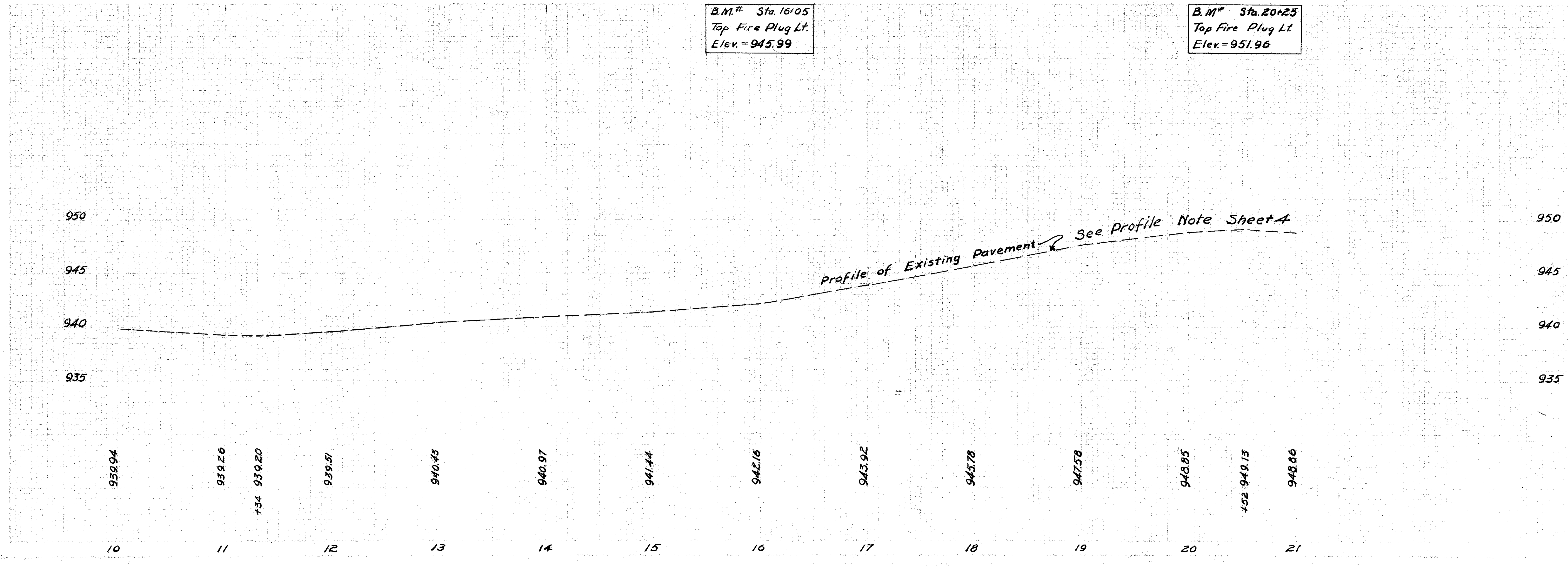
& Pavement

303 92-112

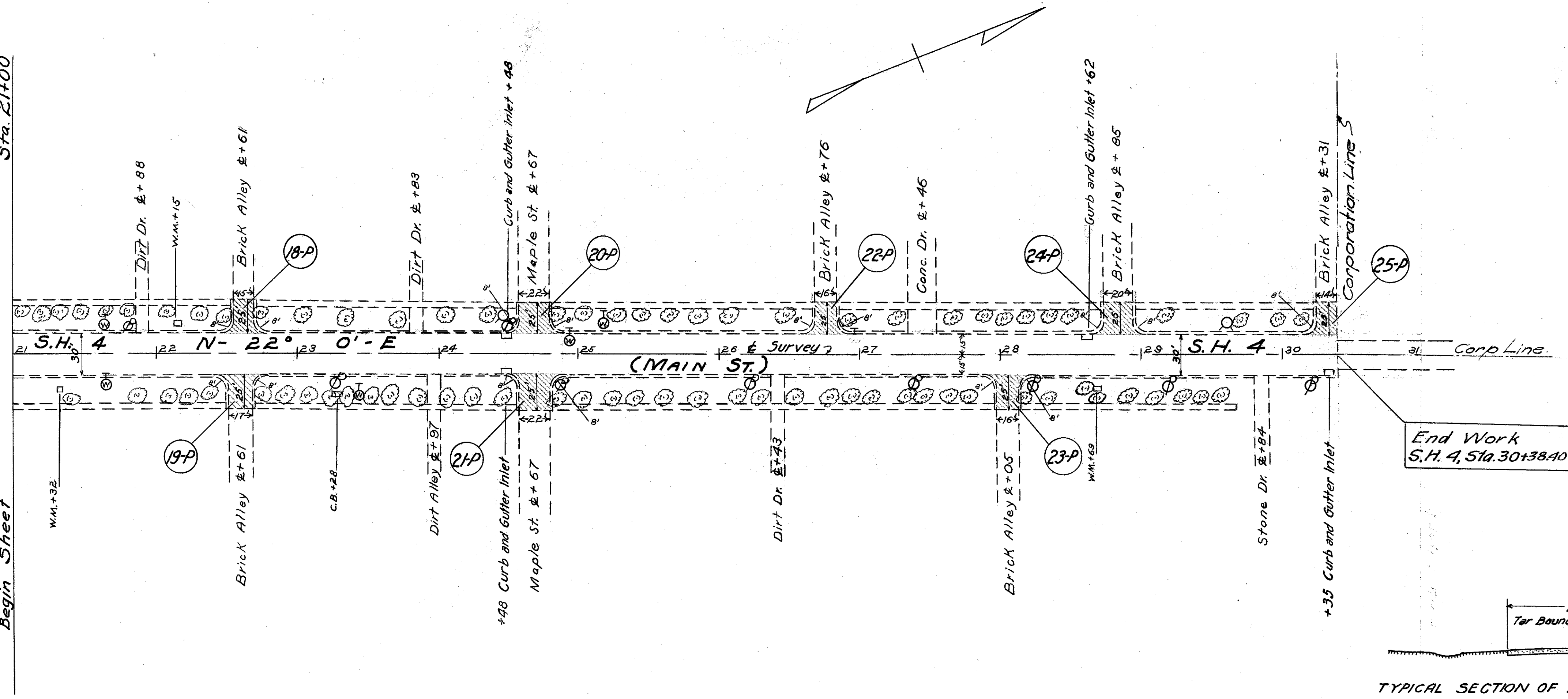


B.M.# Sta. 16+05
 Top Fire Plug Lt.
 Elev. = 945.99

B.M.# Sta. 20+25
 Top Fire Plug Lt.
 Elev. = 951.96

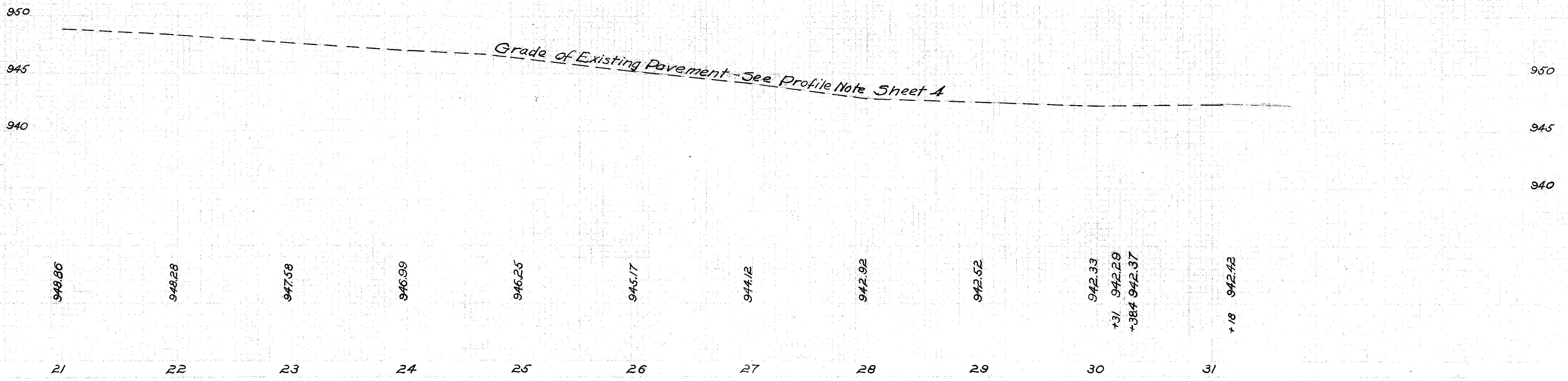


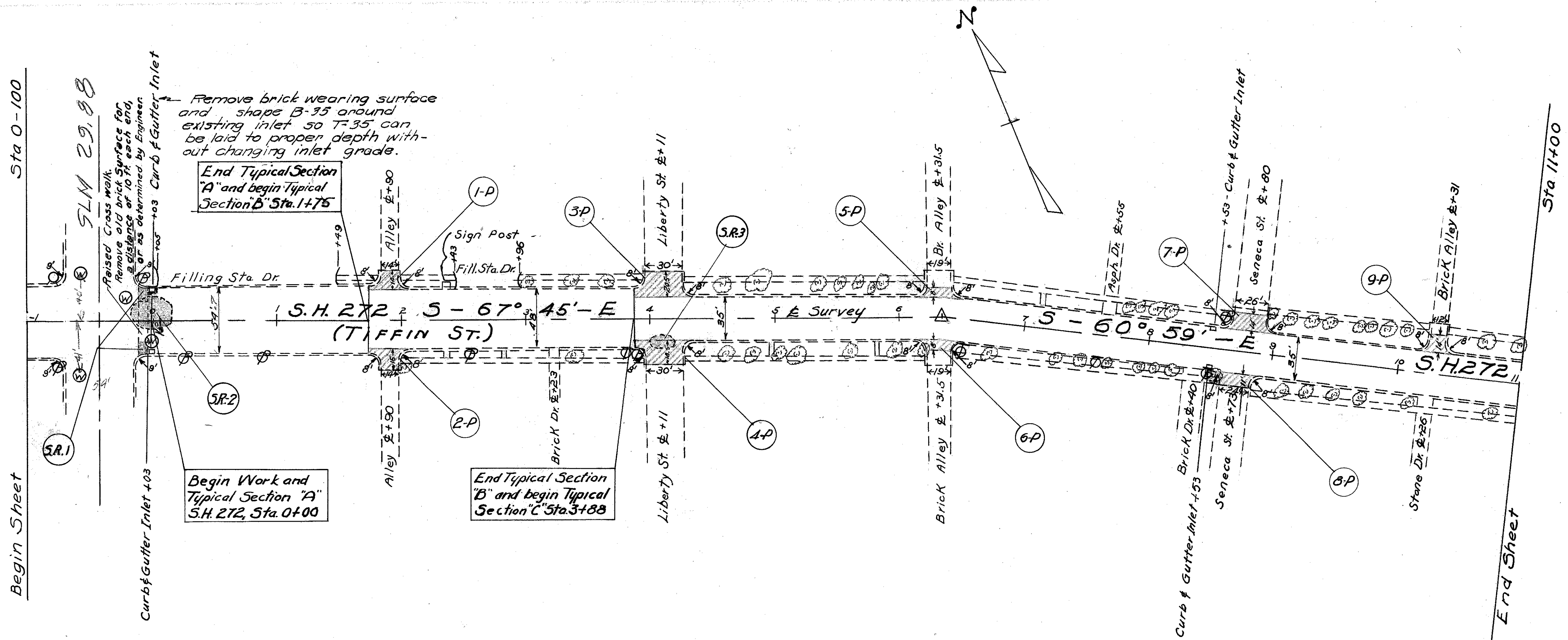
Sta. 21+00
 Begin Sheet



B.M.# Sta. 24+40
 Top Fire Plug Lt.
 Elev. = 950.17

B.M.# Sta. 29+61
 Top Fire Plug Lt.
 Elev. = 945.61





Remove brick wearing surface and shape B-35 around existing inlet so T-35 can be laid to proper depth without changing inlet grade.

End Typical Section "A" and begin Typical Section "B" Sta. 1+75

Begin Work and Typical Section "A" S.H. 272, Sta. 0+00

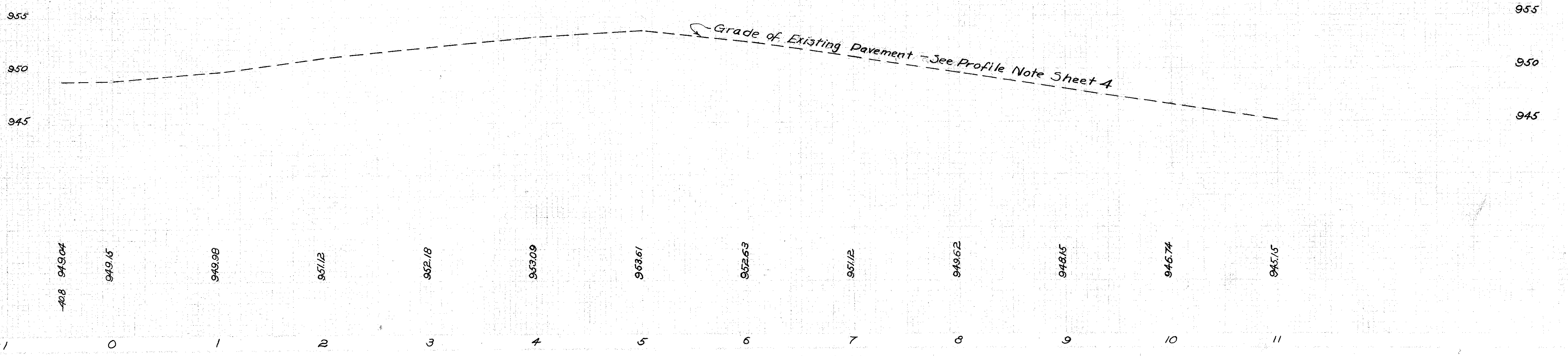
End Typical Section "B" and begin Typical Section "C" Sta. 3+88

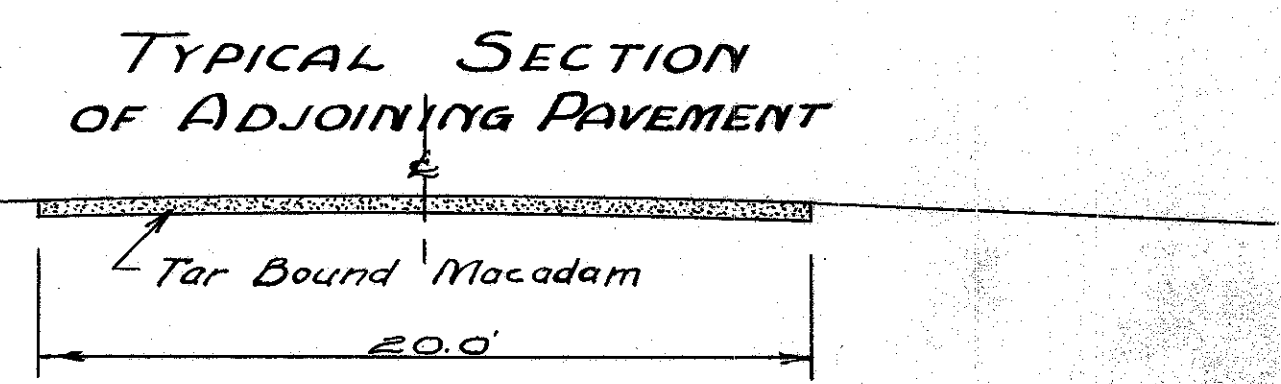
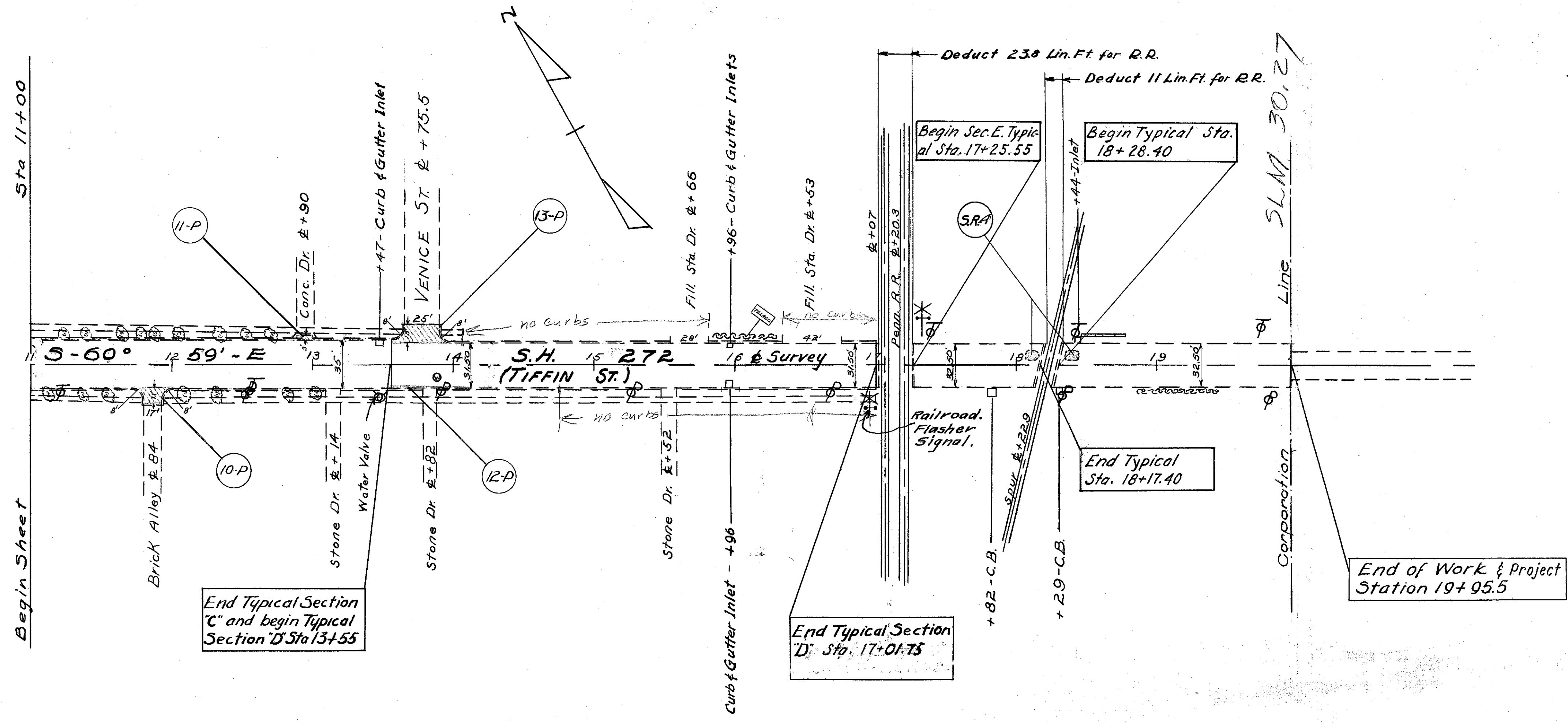
SURFACE REMOVAL "S.R."

Ref. Sheet No.	Brick Surface Removal Sq. Yds.	Bituminous Mac. Removal Sq. Yds.
SR-1	20	
SR-2		114
SR-3		26
SR-4		20
Total	20	160

B.M.#1 Top of Fire Hydrant N.W. Cor. Intersection of S.H. 4 & S.H. 272. Elev. = 950.96

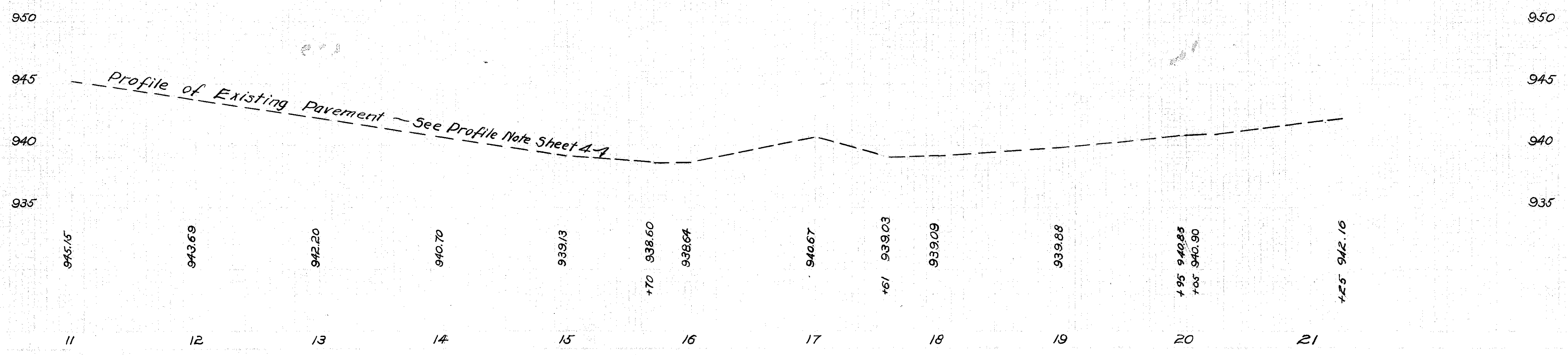
B.M.#2 Sta. 4+40 S.E. Cor. Bottom Step of Walk to House 38' Lt. Elev. = 954.66





B.M.#3 Sta. 13+50
 Top Fire Plug Rt.
 Elev. = 942.40'

B.M.#4 Sta. 18+25 Top
 Fire Plug 26'Rt.
 Elev. = 941.38'



el. 4.82

#6046

SEN-224
SLM 29.88 to 30.27

FED. RD. DIV. NO.	STATE	PROJECT	FISCAL YEAR
2	OHIO		1946

1/9

SENECA COUNTY
S.H.4 SEC. ATTICA (PT.)
S.H.272 SEC. ATTICA (PT.)

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
COLUMBUS-SANDUSKY ROAD-S.H.4, SEC. ATTICA (PT.)
TIFFIN-NEW HAVEN ROAD-S.H.272, SEC. ATTICA (PT.)
SENECA COUNTY,
VILLAGE OF ATTICA.

CONVENTIONAL SIGNS

STATE LINE	-----
COUNTY LINE	-----
TOWNSHIP LINE	-----
SECTION LINE	-----
CENTER LINE	-----
PROPERTY LINE	-----
CITY OR VILLAGE LINE	-----
FENCE LINE	-X-X-X-X-
STEAM RAILROAD	====
ELECTRIC RAILROAD	--- ---
POLE LINE	o-o-o-o-o
GUARD RAIL	o-o-o-o-o
DRAIN PIPE, NEW	-----
DRAIN PIPE, OLD	-----

INDEX OF SHEETS

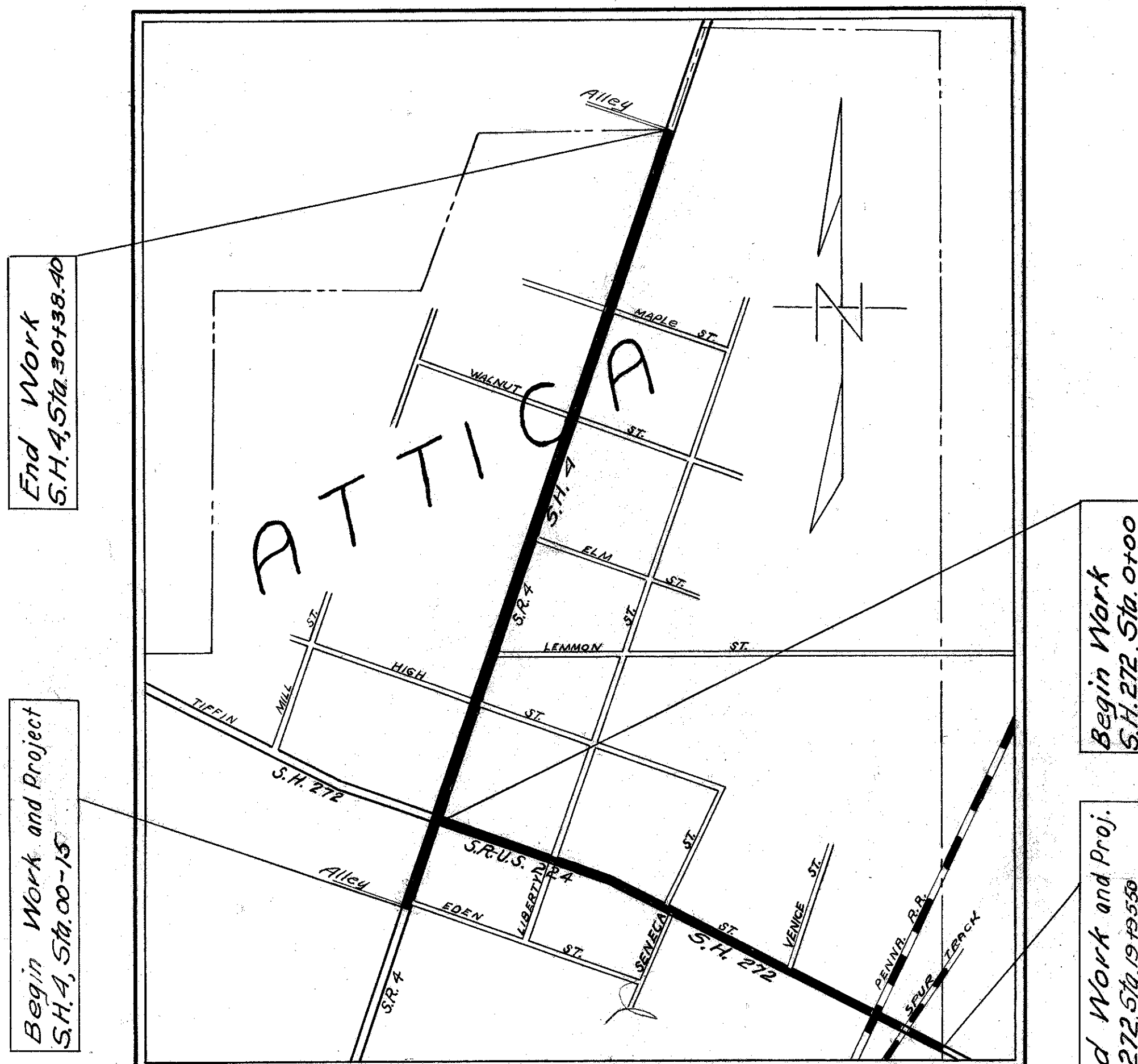
TITLE SHEET	1
TYPICAL SECTIONS	2-3
PLAN & PROFILE	5-9
GENERAL NOTES	4
PAVEMENT COMPUTATIONS	4
SUMMARIES	4

LINE DATA

S.H. 4
Begin Work and Project Sta. 0+15, End Work Sta. 30+38.4 = 3053.4 Lin. Ft.
Gross Length = Net Length = 3053.4 Lin. Ft.

S.H. 272
Begin Work Sta. 0+00, End Work and Project Sta. 19+95.5 = 1995.5 Lin. Ft.
Gross Length = 1995.50 Lin. Ft.
Deduct for Railroads = 34.80 Lin. Ft.
Net Length = 1960.70 Lin. Ft.

Net Length of Project = 3053.40 + 1960.70 = 5014.10 Lin. Ft.
or 0.949 Mile



LOCATION PLAN

SCALE: 1" = 400'

PORTION TO BE IMPROVED
STATE HIGHWAYS
OTHER HIGHWAYS

SCALES

PLAN 1" = 50'
PROFILE - HORIZONTAL 1" = 50'
PROFILE - VERTICAL 1" = 5'

The Standard Specifications of The State of Ohio, Department of Highways, including changes and Supplemental Specifications listed in the Proposal shall govern this improvement.

I hereby approve these Plans and declare that the making of this improvement will not require the closing of traffic of the highway and that traffic will be maintained as shown on the plans and estimates.

The Right of Way necessary for this improvement will be provided by the State of Ohio.

Approved: Arnold V. Finch
Date 7-8-46 Assistant to the Chief Engineer.

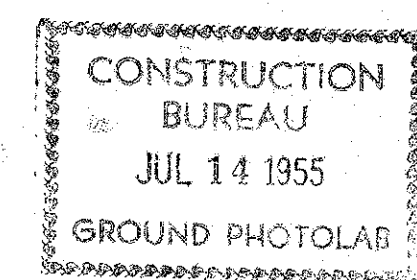
Approved: _____
Date _____ Chief Engineer, Bureau of Maintenance.

Approved: _____
Date _____ Chief Engineer, Bureau of Bridges & R.R. Crossings.

Approved: C. Mucke
Date 8-13-46 Chief Engineer, Bureau of Location & Design.

Approved: Edwin W. Ellis
Date 8-13-46 First Ass't Director & Chief Engineer

Approved: Perry T. Ford
Date 8-13-46 Director of Highways.



SUPPLEMENTAL SPECIFICATIONS

STANDARD DRAWINGS

G-707	6-1-42

FILE NO.	SENECA COUNTY S.H.4 & 272 SEC. ATTICA (PTS.)
DATE OF LETTING	
CONTRACT NO.	

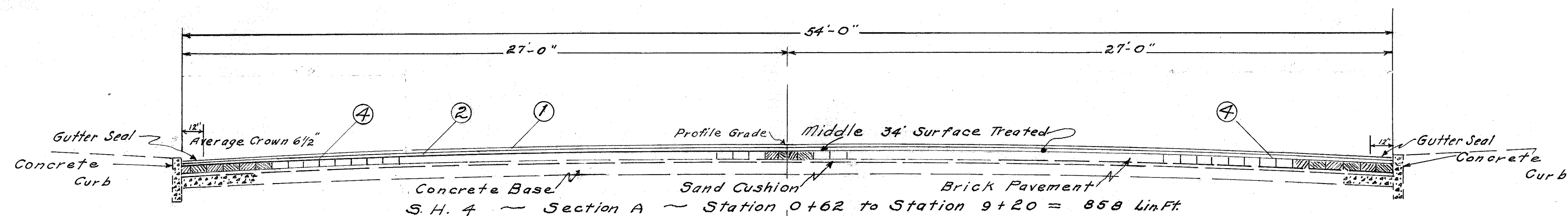
FED. RD. DIV. NO.	STATE	PROJECT	FISCAL YEAR
2	OHIO		1946

29

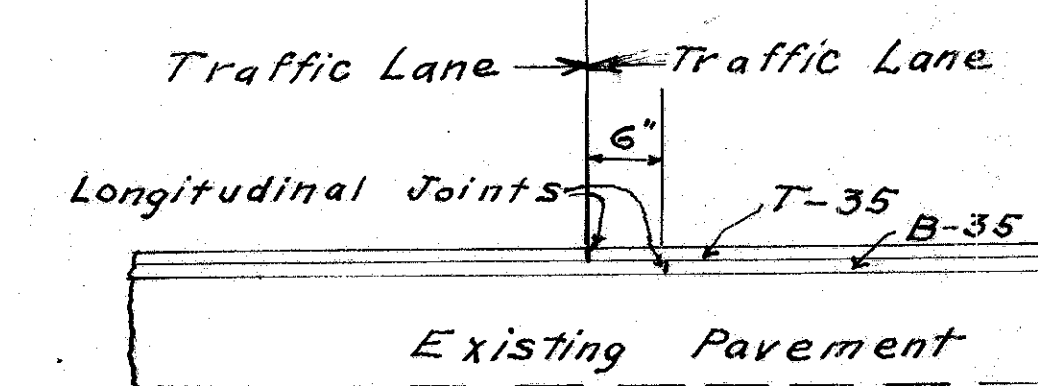
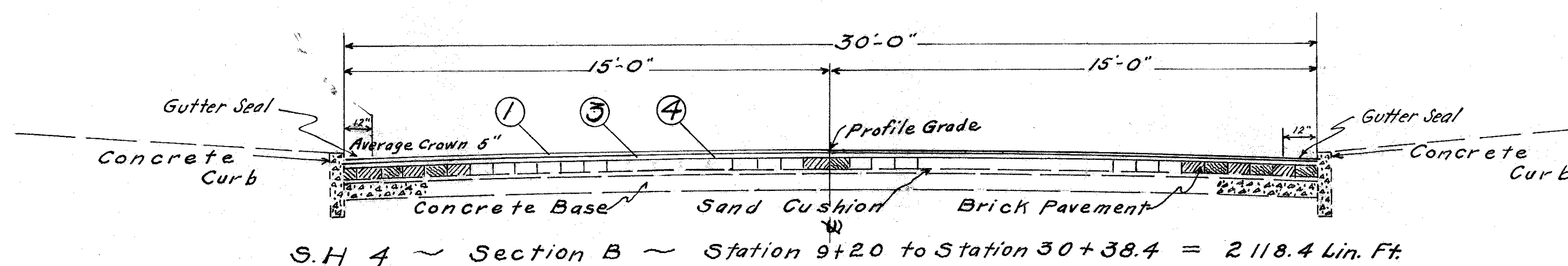
TYPICAL SECTIONS

TYPE T-35

SENECA COUNTY
S.H. 4, SEC. ATTICA (PT.)
S.H. 272, SEC. ATTICA (PT.)

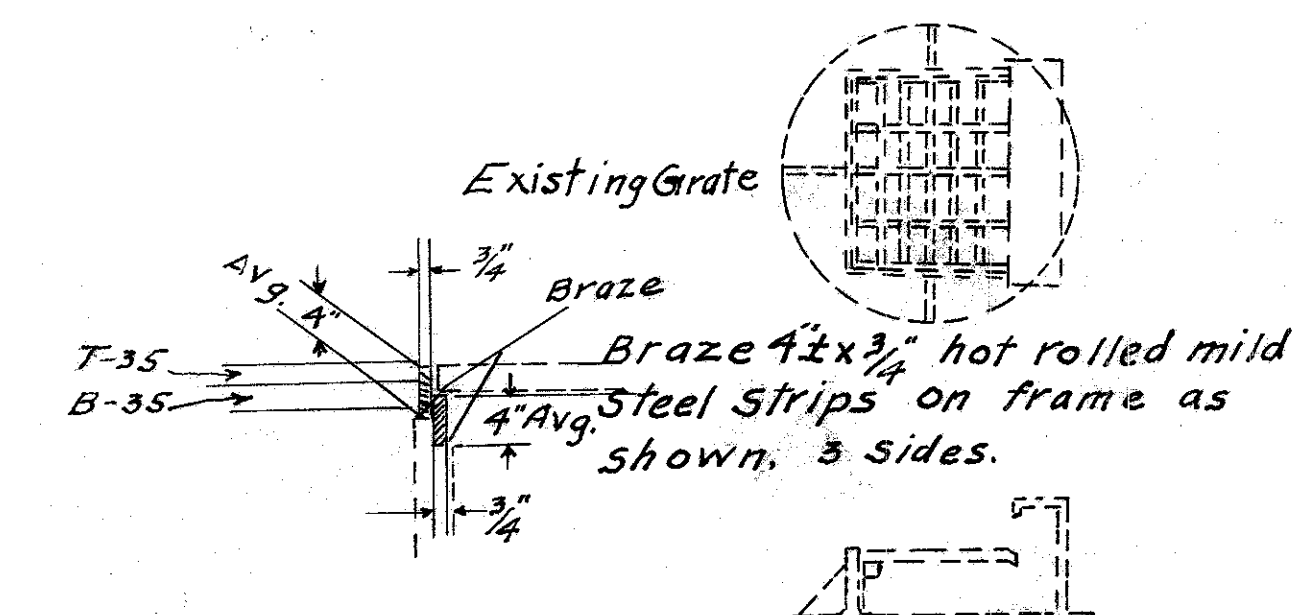


Gutter Seal to be in accordance with Specification Item T-35.20



DETAIL ~ Showing Longitudinal Joints.

- ① Item T-35, 1" Asphaltic Concrete Surface Course, Type "C".
- ② Item B-35, 1/4" Minimum thickness, Asphaltic Concrete Leveling Course. (Section A.)
- ③ Item B-35, 1/2" Minimum thickness, Asphaltic Concrete Leveling Course. (Section B.)
- ④ Item T-30, Bituminous Tack Coat Using Bituminous Material Sec. M-5.5, MS-1 applied at the rate of 0.10 gal. per sq. yd., including 2 to 5 lbs. Sand Cover per. Sq. Yd.



DETAIL :- Showing method of raising grate on combined curb and gutter inlets.

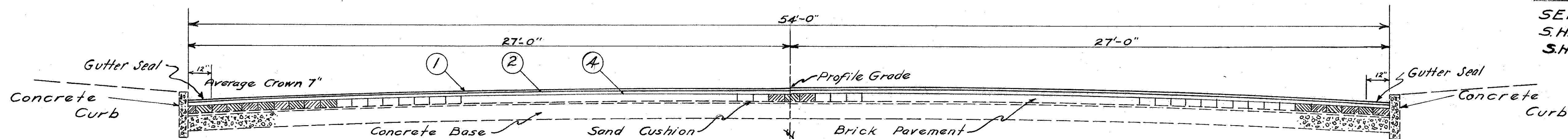
Note: - This method to be optional. Contractor may suggest other method for approval of Engineer. Existing Grates are approx. 2" below Gutters.

TYPICAL SECTIONS, TYPE-T-35

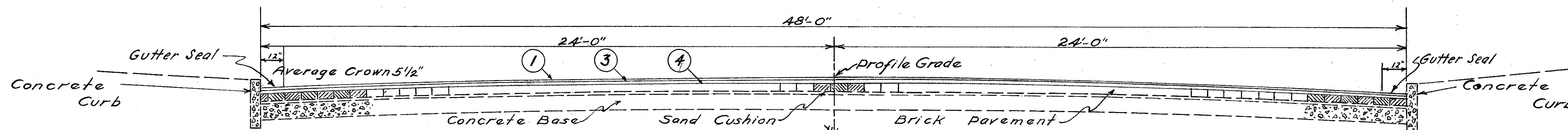
FED. RD. DIV. NO.	STATE	PROJECT	FISCAL YEAR
2	OHIO		1946

3
9

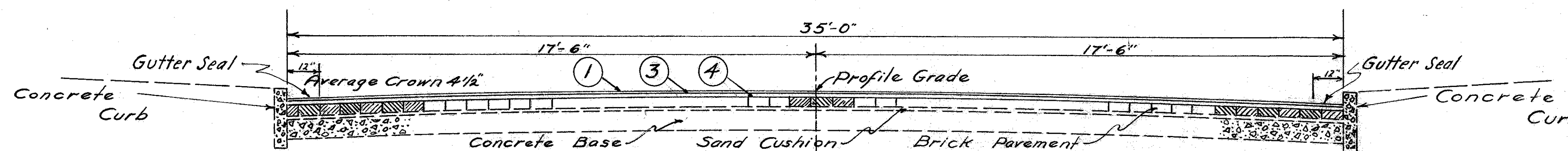
SENECA COUNTY
S.H. 4, SEC. ATTICA (PT.)
S.H. 272, SEC. ATTICA (PT.)



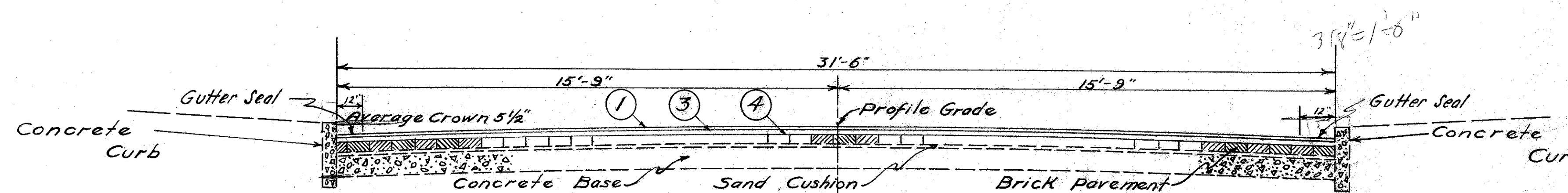
S.H. 272 - Section A - Station 0+00 to Station 1+75 = 175 Lin. Ft.



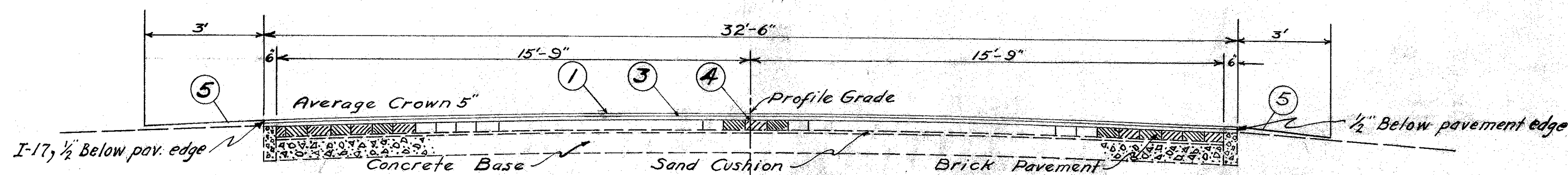
S.H. 272 - Section B - Station 1+75 to Station 3+88 = 213 Lin. Ft.



S.H. 272 - Section C - Station 3+88 to Station 13+55 = 967 Lin. Ft.

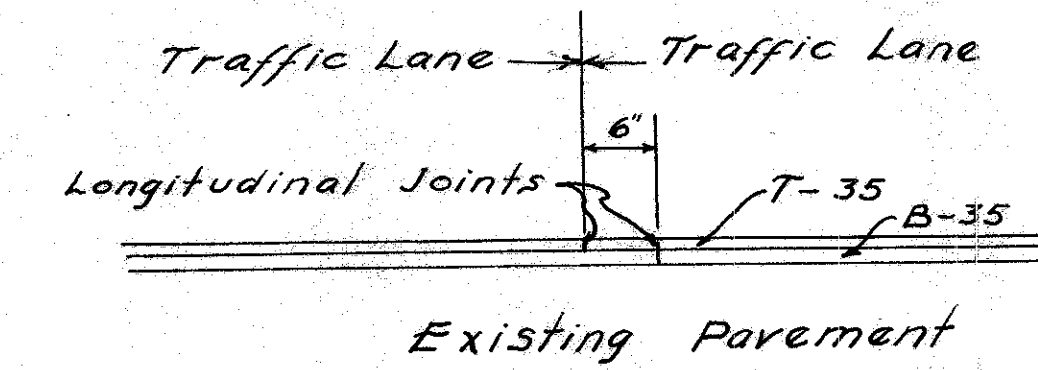


S.H. 272 - Section D - Station 13+55 to Station 17+01.75 = 346.75 Lin. Ft.



S.H. 272 - Section E - Station 17+25.55 to Station 18+17.40 = 91.85 Lin. Ft.
Station 18+28.40 to Station 19+95.50 = 167.10 Lin. Ft.

Gutter Seal according to Specifications. Sec. T-35.20



DETAIL - Showing Longitudinal Joints.

- ① Item T-35, 1" Asphaltic Concrete Surface Course, Type "C"
- ② Item B-35, 1 1/4" Minimum thickness, Asphaltic Concrete Leveling Course.
- ③ Item B-35, 1 1/2" Minimum thickness, Asphaltic Concrete Leveling Course.
- ④ Item T-30, Bituminous Tack Coat Using Bituminous Material Sec. M-5.5, MS-1 applied at the rate of 0.10 gal. per sq. yd., including 2 lbs. to 5 lbs. of sand cover per sq. yd.
- ⑤ Item I-17, Side approaches, Mail box turnouts and berm Material.

3100
20
9) 42000 (4666
360
54

S. H. 4, SEC. ATTICA (Pt)
S. H. 272, SEC. ATTICA (Pt)
SENECA COUNTY

GENERAL NOTES

PROFILE — The profile of the proposed surface course shall be approximately 2 1/2 inches above that of the existing pavement.

TRAFFIC — Traffic shall be maintained at all times. The length of one way traffic zones shall be kept to a minimum consistent with the requirements of Sec. T-35.23. The item of "Maintaining Traffic" shall include furnishing lights, signs, barricades and watchmen to secure the flow of traffic twenty-four (24) hours daily.

RAILROAD CROSSINGS — The new surface course shall be feathered to meet rail grades, if necessary.

FILLING MAJOR DEPRESSIONS — Major depressions in existing pavement shall be filled and compacted with bituminous concrete leveling material in advance of placing the regular leveling course. These depressions shall be filled in layers not to exceed 3" in depth when compacted.

RESETTING CASTINGS — This item shall be performed after completion of leveling course and prior to placing the surface course. Compaction of the material around castings inaccessible to rollers shall be in accordance with the requirements of Section T-50.21. Portions of the existing pavement removed to adjust manhole and pool grate frame castings to the grade of the new surface shall be replaced full depth with Class "C" Concrete.

The cost of labor, materials, etc., shall be included in the unit price bid for Item I-B Resetting Castings.

UTILITY ADJUSTMENT — Any and all work required for Public or Private Utilities will be done by and at the expense of their respective owners unless otherwise noted in these plans.

CONTROL POINTS — None on Project.

DISPOSAL OF WASTE MATERIAL — All waste material shall be disposed of by the contractor outside the limits of the project Right of Way.

GUTTER SEAL: — After placing and compacting the bituminous concrete surface course, the gutter surface shall be sealed with the same bituminous material contained in the mixture. Only enough material shall be applied to coat the surface for a distance of 12" inches from the curb or 24 inches wide for a "V" gutter. The material shall be applied by an approved method at a temperature of from 300 deg. F. to 350 deg. F. The cost of such operation and material shall be included in the price bid for bituminous concrete.

TREATMENT OF FEATHERED AREA: — Where directed the new surface shall be feathered. The area upon which less than one (1) inch of surface course is to be placed shall be considered as the area to be feathered. A paint coat of the same bituminous material used in the mix shall be applied to this area, before placing the bituminous concrete surface course. The cost of such operation and material shall be included in the price bid for bituminous concrete.

PAVEMENT COMPUTATIONS

S. H. 4
Sta. 0+62 to Sta. 9+20 = 858.0 Lin.Ft.
Width of Pavement = 54.0 Lin.Ft.
Area = (54 x 858) ÷ 9 = 5148.0 Sq.Yds.

Sta. 9+20 to Sta. 30+38.4 = 2118.4 Lin.Ft.
Width of Pavement = 30.0 Lin.Ft.
Area = (30 x 2118.4) ÷ 9 = 7061.0 Sq.Yds.

S. H. 272
Sta. 0+00 to Sta. 1+75 = 175.0 Lin.Ft.
Width of Pavement = 54.0 Lin.Ft.
Area = (54 x 175) ÷ 9 = 1050.0 Sq.Yds.

Sta. 1+75 to Sta. 3+88 = 213.0 Lin.Ft.
Width of Pavement = 48.0 Lin.Ft.
Area = (48 x 213) ÷ 9 = 1136.0 Sq.Yds.

Sta. 3+88 to Sta. 13+55 = 967.0 Lin.Ft.
Width of Pavement = 35.0 Lin.Ft.
Area = (35 x 967) ÷ 9 = 3760.0 Sq.Yds.

Sta. 13+55 to Sta. 17+00 = 345.0 Lin.Ft.
Width of Pavement = 31.5 Lin.Ft.
Area = (31.5 x 345) ÷ 9 = 1207.0 Sq.Yds.

Sta. 17+00 to Sta. 19+95.5 = 295.5 Lin.Ft.
Deduct for Railroads = 34.8 Lin.Ft.
= 260.7 Lin.Ft.
Width of Pavement = 32.5 Lin.Ft.
Area = (260.7 x 32.5) ÷ 9 = 941.0 Sq.Yds.

5148 Sq.Yds.	5148	Sq.Yds.
7061 Sq.Yds.	7061	Sq.Yds.
1050 Sq.Yds.	1050	Sq.Yds.
1136 Sq.Yds.	1136	Sq.Yds.
3760 Sq.Yds.	3760	Sq.Yds.
1207 Sq.Yds.	1207	Sq.Yds.
941 Sq.Yds.	941	Sq.Yds.
Total Areas	6198	Sq.Yds.

T-35, 1" Thick.
Area from Typical Sections = 20303 Sq.Yds.
Area from Extra Pavement = 2179 Sq.Yds.
Total Area = 22482 Sq.Yds.
Volume = $\frac{22482 \times 1}{36}$ = 624 Cu.Yds.

B-35, 1 1/4" Thick.
Area from Typical Sections = 6198 Sq.Yds.
Volume = $\frac{6198 \times 1 1/4}{36}$ = 215 Cu.Yds.

B-35, 1 1/2" Thick.
Area from Typical Sections = 14105 Sq.Yds.
Area from Extra Pavement = 1411 Sq.Yds.
Total Area = 15516 Sq.Yds.
Volume = $\frac{15516 \times 1 1/2}{36}$ = 647 Cu.Yds.

Extra Leveling Material to correct weak areas (estimated) = 15 Cu.Yds.
Extra Leveling Material to correct surface irregularities (estimated) = 200 Cu.Yds.
Total = 1077 Cu.Yds.

T-30, Tack Coat.
Area from Typical Sections = 20303 Sq.Yds.
Area from Extra Pavement = 2179 Sq.Yds.
Total Area = 22482 Sq.Yds.
Deduct Resurfaced Area = 3241 Sq.Yds.
Total Area = 19241 Sq.Yds.
Volume = 19241 x 0.10 = 1,924 Gallons.

I-17, $(522' \times 2 1/2' + 1') \times 3 \div 27 = 8.4 \text{ Cu.Yds} \times 115\% = 10 \text{ Cu.Yds.}$
E-8, Removal and disposal of Existing Wearing Surface. Sheet No. 5 32 Sq.Yds. Sheet No. 8 160 Sq.Yds. Total 192 Sq.Yds.
E-8 Removal and disposal of Existing Brick Surface. Sheet No. 8 20 Sq.Yds.

EXTRA PAVEMENT P" S.H. 4

SHEET		T-30 Sq.Yds.	T-35 Sq.Yds.	B-35 Sq.Yds.
5	1-P	482	482	426
5	2-P	5	5	0
5	3-P	20	20	10
5	4-P	8	8	0
5	5-P	86	86	86
5	6-P	86	86	43
5	7-P	8	8	0
5	8-P	27	27	14
5	9-P	95	95	70
5	10-P	95	95	70
6	11-P	48	48	25
6	12-P	116	116	73
6	13-P	37	37	20
6	14-P	48	48	25
6	15-P	59	59	31
6	16-P	59	59	31
6	17-P	59	59	31
7	18-P	45	45	24
7	19-P	51	51	26
7	20-P	65	65	34
7	21-P	65	65	34
7	22-P	48	48	26
7	23-P	48	48	26
7	24-P	59	59	31
7	25-P	41	41	21
S.H. 272				
8	1-P	28	28	16
8	2-P	29	29	17
8	3-P	77	77	42
8	4-P	71	71	39
8	5-P	20	20	11
8	6-P	20	20	11
8	7-P	44	44	23
8	8-P	32	32	19
8	9-P	22	22	12
9	10-P	24	24	12
9	11-P	3	3	2
9	12-P	8	8	8
9	13-P	41	41	22
TOTALS		2179	2179	1411

RESETTING CASTINGS

STA.	SIDE	DESCRIPTION
S.H. 4		
0+07	Lt.	Manhole (water) Reset
0+11	Lt.	Curb and Gutter Inlet, Raise Grade.
0+56	Rt.	Curb and Gutter Inlet, Raise Grade.
4+51	Lt.	Manhole (Water) Reset
4+76	Rt.	Manhole (Water) Reset
5+13	Rt.	Manhole (Water) Reset
5+32	Lt.	Manhole (Water) Reset
9+11	Lt.	Manhole (Water) Reset
9+23	Lt.	Curb and Gutter Inlet, Raise Grade.
9+24	Rt.	Curb and Gutter Inlet, Raise Grade.
9+77	Lt.	Manhole (Water) Reset.
11+16	Rt.	2 Pool Grates, Reset.
11+33	Lt.	Curb and Gutter Inlet
11+67	Rt.	Manhole (Storm Sewer) Reset
11+69	Rt.	Curb and Gutter Inlet, Raise Grade.
14+01	Lt.	Curb and Gutter Inlet, Raise Grade.
16+05	Rt.	Curb and Gutter Inlet, Raise Grade.
24+48	Lt&Rt.	Curb and Gutter Inlets, Raise Grade.
24+92	Lt.	Water Valve Box, Reset by Village.
28+62	Lt.	Curb and Gutter Inlet, Raise Grade.
30+35	Rt.	Curb and Gutter Inlet, Raise Grade.
S.H. 272		
0+3	Rt.	Curb and Gutter Inlet, Raise Grade.
8+53	Lt&Rt.	Curb and Gutter Inlets, Raise Grade.
13+47	Lt.	Curb and Gutter Inlet, Raise Grade.
13+88	Rt.	Manhole (water) Reset.
15+96	Lt&Rt.	Curb and Gutter Inlets, Raise Grade.
TOTALS:		Manholes adjusted to grade. 9 Curb and Gutter Inlet Grates to be reset 17 Pool Grate Frames Adjusted to grade 2

GENERAL SUMMARY

Item	Quantity	Unit	Description
E-8	192	Sq.Yds.	Removal and disposal of existing Bituminous Surface.
E-8	20	Sq.Yds.	Removal and disposal of existing Brick Surface.
I-8	9	each	Resetting Manholes
I-8	17	each	Curb Inlet (Grates only) Reset
I-8	2	each	Pool Grate Frames Reset
I-17	10	Cu.Yds.	Side Approaches, Mail Box Turnouts, and Berm Material.
T-30	1924	Gallons	Bituminous Tack Coat, using Bituminous Material Sec. M-5.5, MS-1 applied at the rate of 0.10 gallons per sq. yd. including 2 to 5 lbs sand cover per sq. yd.
T-35	624	Cu.Yds.	Asphaltic Concrete Surface Course, Type "C"
B-35	1077	Cu.Yds.	Asphaltic Concrete Leveling Course.
Lump	Lump Sum		Maintaining Traffic, including Lights, Signs, Barricades, and Watchmen, Twenty-Four Hour Service.

