#3090 3093

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

1/8

LUCAS COUNTY
S.H.54 SEC. SYLVANIA(PT.)

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TOLEDO-LANSING ROAD
S.H.54 SEC. - SYLVANIA(PT.)
LUCAS COUNTY
VILLAGE OF SYLVANIA

CONVENTIONAL SIGNS.

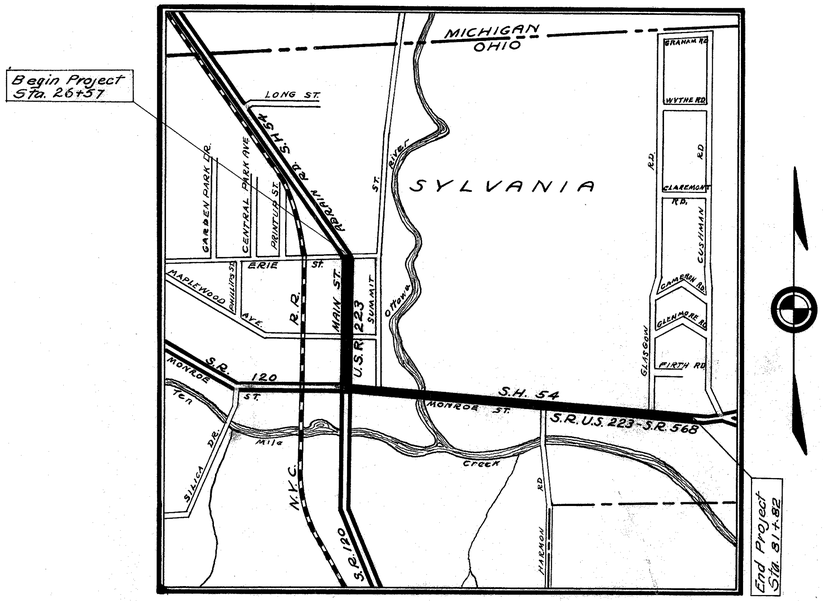
STATE LINE
COUNTY LINE
TOWNSHIP LINE
SECTION LINE
CENTER LINE
PROPERTY LINE
CITY OR VILLAGE LINE
FENCE LINE
STEAM RAILROAD
ELECTRIC RAILROAD
POLE LINE
GUARD RAIL
DRAIN PIPE, NEW
DRAIN PIPE, OLD

INDEX OF SHEETS.

TITLE SHEET	1
TYPICAL SECTION	2
PLAN & PROFILE	4-8
GENERAL NOTES	3
PAVEMENT COMPUTATIONS	3
SUMMARIES	3

LINE DATA

Begin Project Sta. 26+57
End Project Sta. 81+82
Gross Length = Net Length = 5525 Lin. Ft = 1.046 Mi.



LOCATION PLAN.

SCALE — 1" = 1000'

DELIVERY POINT, Sylvania AVERAGE HAUL 3/4 Mile

PORTION TO BE IMPROVED
STATE HIGHWAYS
OTHER HIGHWAYS

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 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 4/15/46 Assistant to the Chief Engineer.

Approved _____
Date ___ Chief Engineer, Bureau of Maintenance.

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

Approved Robert Erskine
Date 5-28-46 Chief Engineer, Bureau of Location & Design.

Approved Edson W. Elles
Date 5-29-46 First Ass't Director & Chief Engineer.

Approved Perry T. Ford
Date 5-29-46 Director of Highways.

SCALES

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

STANDARD DRAWINGS.		
G-7.07	(Date)	6/1/42

SUPPLEMENTAL SPECIFICATIONS.	

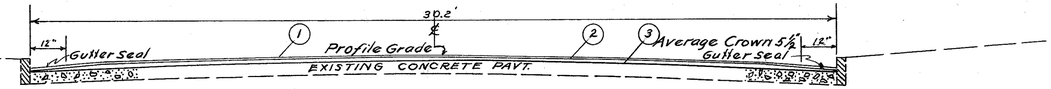
FILE NO.	LUCAS COUNTY S.H.54 SEC. SYLVANIA(PT.)
-----	DATE OF LETTING _____ 194__
	CONTRACT NO. _____

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

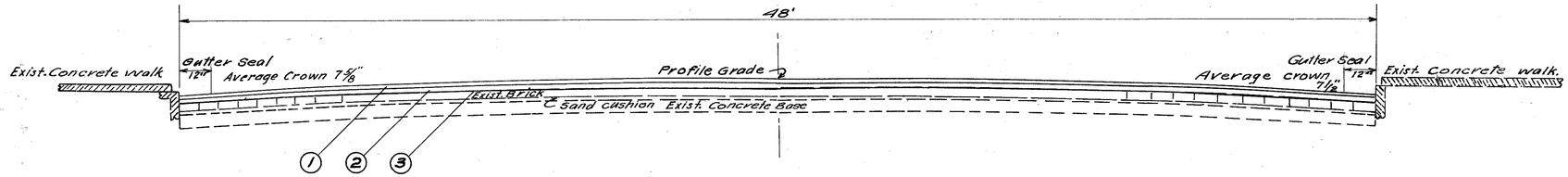
2/8

LUCAS COUNTY
S.H. 54 Sec. Sylvania (Pt.)

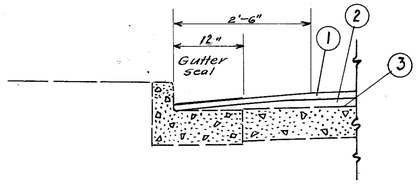
TYPICAL SECTIONS
TYPE T-35



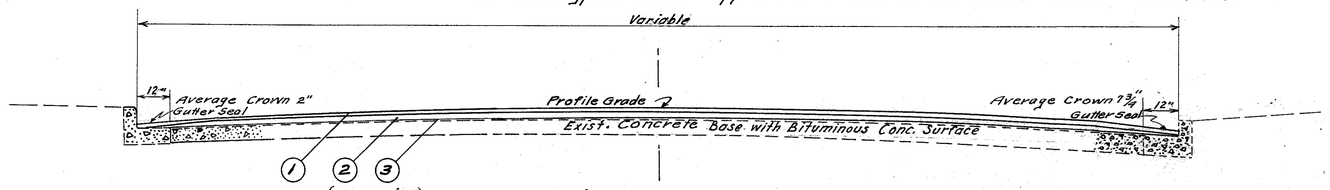
The above Typical Section applies from Sta. 27+17 to Sta. 34+66 = 749 Lin. Ft.



The above Typical Section applies from Sta. 35+67 to Sta. 40+50 = 483 Lin. Ft.

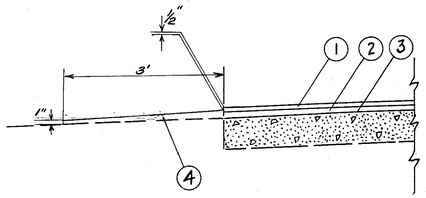


DETAIL:- Showing Gutter Re-surfacing where feathering is specified.

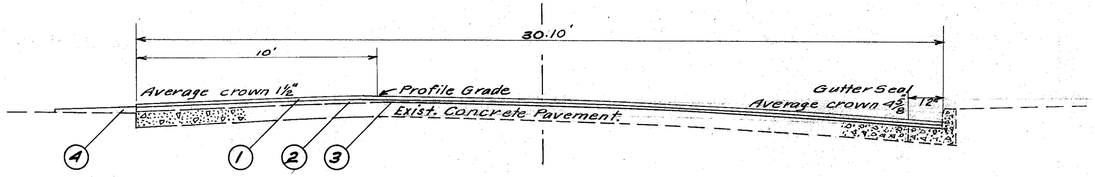


(38.4' Av. Width)
(42.5' Width)

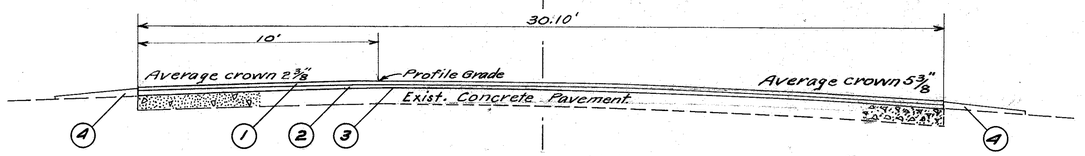
The above Typical Section applies from Sta. 41+83 to Sta 48+74 = 691 Lin. Ft.
" " " " " " " 41+193 to Sta. 41+83 = 63.7 " "
Total 754.7 Lin Ft.



DETAIL:- Showing edge construction where berms are low.



The above Typical Section applies from Sta. 49+00 to Sta. 63+60 = 1460 Lin. Ft.



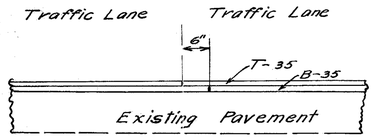
The above Typical Section applies from Sta. 63+60 to Sta 81+82 = 1822 Lin. Ft.

(1) Item T-35, 1" Asphaltic Concrete Surface Course Type "C".

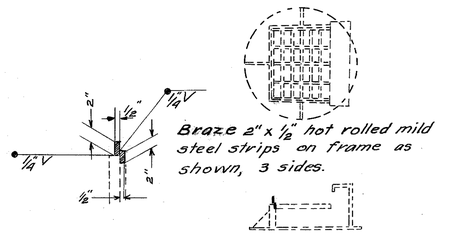
(2) Item B-35, 1½" Minimun thickness, Asphaltic Concrete Leveling Course.

(3) Item T-30, Bituminous Tack Coat Using Bituminous Mat., Sec. M-5.5 MS-1 Applied at rate of 0.10 gal. per Sq. Yd, including sand cover.

(4) Item - 17, Side approaches, Mailbox turnouts & Berm Material.



DETAIL:- Showing Longitudinal Joints.



Braze 2" x ½" hot rolled mild steel strips on frame as shown, 3 sides.

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.

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

3/8

LUCAS COUNTY
S.H. 54, SEC. SYLVANIA (PE)

GENERAL NOTES

PROFILE:- The profile of the proposed surface course shall be approximately 2½ inches above that of the existing pavement.

TACK COAT INCLUDING SAND COVER:- Bituminous Tack Coat Sec. M-5.5, MS-1 shall be applied by distributor or by brooms at the rate of 0.10 gal. per square yard. After the bituminous material has been applied, all material not required to give a uniform coating to the surface shall be swept into all cracks and open joints before the sand cover is placed. Sand cover shall be uniformly spread at a rate of from 2 to 5 pounds per square yard. The sand shall be spread in such condition that it will adhere to the bituminous material. Cost of sand cover shall be included in the price bid per gal. for bituminous material.

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 inches 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, Pool Grate and Gutter Grate castings, to the grade of the new surface shall be replaced full depth with class "C" concrete. Necessary adjustments of the structure walls shall be made with Class "C" concrete.
The cost of all materials, labor, and incidentals shall be included in the unit price bid for Item I-8 Resetting Castings.

SEALING EXISTING EDGES: Vertical faces of existing work such as castings, curbs, etc. against which the new bituminous concrete is to be placed shall be painted or sealed with the same bituminous material contained in the mixture and applied at a temperature from 300° Deg. F to 350° Deg. F. The cost of such operations and material shall be included in the price bid for bituminous concrete.

TREATMENT OF FEATHERED AREA: Where directed, the new surface course shall be feathered. The area upon which less than 1" inch of surface is to be placed shall be considered as the area to be feathered. A point 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 unit price bid for bituminous concrete.

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 shall be applied to coat the surface for a distance as shown from the curb or 24" inches 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.

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. In addition to the requirements of Sec. 6-8.07, Barricades, Danger and Warning Signs, the Contractor shall display one "PLEASE MEN WORKING ON ROAD" sign furnished by the State at each end of of each one way zone and in such a position as to be visible to traffic approching the one way zone.
The contractor shall be responsible for the preservation of these signs, shall advance the signs as the work progresses and shall return the signs to the State of the completion of the work. The Item of "Maintaining traffic" shall include furnishing lights, signs (other than those mentioned above), barricades and watchmen, plus the displaying and advancing of the "PLEASE-MEN WORKING ON ROAD" signs to secure the flow of traffic twenty four (24) hours daily.

UTILITIES:- All work required to relocate, and or adjust etc, all gas, oil, telegraph, telephone, electric, water, or other services to conform to the new grade and alignment shall be completed by the Utilities in question or the village of Sylvania.

CONTROL POINTS.- Before construction operations begin the Engineer will reference all existing monuments, railroad spikes, iron bolts etc. in the survey line.
Upon completion of the Surfacing, the Engineer will re-establish all these control points in the new pavement.

PAVEMENT COMPUTATIONS

From Station 27+17 to Station 34+66 = 749 Lin. Ft.
Width of Pavement = 30.2 Lin. Ft.
Area = (30.2 x 749) ÷ 9 = 2,513 Sq. Yds.

From Station 35+67 to Station 40+50 = 483 Lin. Ft.
Width of Pavement = 48 Lin. Ft.
Area = (48 x 483) ÷ 9 = 2,576 Sq. Yds.

From Station 41+83 to Station 48+74 = 691 Lin. Ft.
Width of Pavement = 38.4 Lin. Ft.
Area = (38.4 x 691) ÷ 9 = 2,948 Sq. Yds.

From Station 49+00 to Station 63+60 = 1,460 Lin. Ft.
Width of Pavement = 30.1 Lin Ft.
Area = (30.1 x 1,460) ÷ 9 = 4,883 Sq. Yds.

From Station 63+60 to Station 81+82 = 1,822 Lin. Ft.
Width of Pavement = 30.1 Lin Ft
Area = (30.1 x 1822) ÷ 9 = 6,094 Sq. Yds.

Total Area in Typical Sections = 19,014 Sq Yds.

T-35 1" Minimum thickness Type "C" = 19,014 Sq. Yds.
Add from extra Pavement Table = 2,283 Sq. Yds.
Total Area = 21,297 Sq. Yds.
(21,297 x 1") ÷ 36 = 592 Cu. Yds

B-35 1½" Minimum thickness. = 19,014 Sq. Yds.
Add from extra Pavement Table = 1,840 Sq. Yds.
Total Area = 20,854 Sq. Yds.
(20,854 x 1½") ÷ 36 = 869 Cu. Yds.
Deduct for feathering of Curbed Edges = 2,880 Lin. Ft.
[2880 x (0" + 1½"/2) x 2½'] ÷ 27 = 17 Cu. Yds.
Total Net = 852 Cu. Yds.

Extra leveling material

Sta. 27+17 to Sta. 34+66 Width 30.2' Length 749 Lin. Ft. 28 Cu. Yds. (To Remove Irregularities)
Sta. 35+67 to Sta. 40+50 " 48. " 483 " " 36 " " " " "
Sta. 41+19 to Sta. 48+74 " 38.4 & 42.5 " 755 " " 45 " " " " "
Sta. 49+00 to Sta. 63+60 " 30.1 " 1,460 " " 55 " " " " "
Sta. 63+60 to Sta. 81+82 " 30.1 " 1,822 " " 68 " " " " "
Total = 232 " "

Total B-35 = (852 + 232) = 1,084 Cu. Yds.

T-30 Bituminous Tack Coat = 19,014 Sq. Yds.
Add from extra pavement Table = 2,283 Sq. Yds.
Total Area = 21,297 Sq. Yds.
(21,297 x 0.10) = 2,130 Gal.

I-17, 1,460' + 3,644' = 5,104 Lin Ft.
[5,104' x (2½"/2 + 1") x 3'] ÷ 27 = 83 Cu. Yds. x 115% = 96 CU. Yds.
I-17 - Private drives, 11 @ 1 cu. yd. each = 11 Cu. Yds.
Total = 107 Cu. Yds.

E-8 Removal of Existing Bit. Con. Surface Course 84 Sq. Yds.
E-8 Removal of Existing Brick Surface Course (estimated) 50 sq. Yds.

RESETTING CASTINGS

STA.	SIDE	KIND	DESCRIPTION
26+61	Rt.	Valve Box	Reset by Village
+67	Rt	Inlet	Re-set Grate
+89	Lt.	Inlet	Re-set Grate
+94	Lt.	M.H. (water)	Re-set by Village.
+95	Cen.	M.H.	San. Sewer
27+06	Rt.	Inlet	Re-set Grate
+10	Lt.	Inlet	Re-set Grate
31+12	Cen.	M.H.	San. Sewer.
35+02	Lt.	Inlet	Feather Pavement to Grate
+11	Lt.	M.H.	Storm Sewer
+18	Rt.	Inlet	Re-set Grate
+42	Cen.	M.H.	San. Sewer
+48	Lt.	Inlet	Re-set Grate
40+62	Lt.	Inlet	Re-set Grate
+65	Rt.	Inlet	Re-set Grate
+85	Rt.	M.H.	Storm Sewer
+87	Lt.	M.H.	Storm Sewer
	Rt.	Inlet	Re-set Grate
43+99	Lt.	Valve Box	Re-set by Village
44+17	Lt.	Inlet	Re-set Grate
+25	Rt.	Inlet	Re-set Grate
+33	Lt.	M.H.	San. Sewer
+36	Lt.	M.H.	Storm Sewer
+44	Lt.	Inlet	Reset Grate
+55	Lt.	M.H. (water)	Reset by Village
46+20	Lt.	M.H.	San. Sewer.
47+50	Rt.	Inlet	Re-set Grate
47+75	Lt.	M.H.	Storm Sewer
+79	Lt.	Inlet	Feather Pavement to Grate
48+29	Lt.	Inlet	Feather Pavement to Grate
51+71	Rt.	Inlet	Re-set Grate
52+04	Rt.	M.H.	Storm Sewer
+45	Rt.	Inlet	Re-set Grate
56+69	Rt.	Inlet	Re-set Grate
62+91	Rt.	Inlet	Re-set Grate
63+07	Rt.	Valve Box	Re-set By Village
76+53	Rt.	Valve Box	Re-set By Village
Total	Manholes to be re-set		11
"	Inlet Grates to be reset		17

EXTRA PAVEMENT

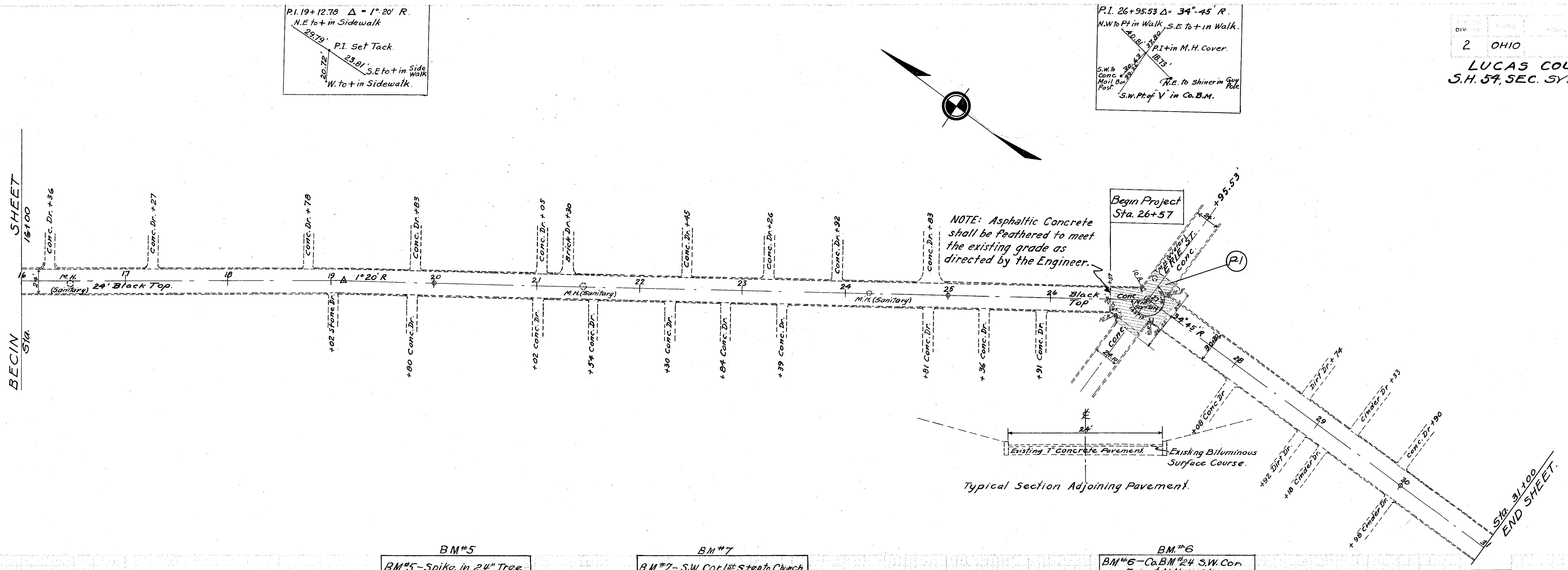
REF. NO.	STATION	SIDE	T-30 Sq. Yds.	B-35 Sq. Yds.	T-35 Sq. Yds.
P-1	26+57 to 27+17	Center	285.	253	285.
P-2	34+66 to 35+67	Center	577	530	577.
P-3	40+50 to 41+83	Center	935.	796	935.
P-4	44+30.91	Lt.	47	25	47.
P-5	48+74 to 49+00	Center	103	103	103.
P-6	63+29	Rt.	72	40	72
P-7	63+29	Lt.	95	55	95
P-8	67+20	Lt.	64	38	64
	Private Drives, Various Stations. 35@-3 sq. Yds each	Rt & Lt.	105		105
	Total		2283	1,840	2,283

GENERAL SUMMARY

ITEM	TOTAL	UNIT	DESCRIPTION
T-35	592	Cu. Yds	Asphaltic Concrete Surface Course, Type "C."
B-35	1,084	Cu. Yds.	Asphaltic Concrete Leveling Course.
T-30	2,130	Gals.	Bituminous Tack Coat Sec M.-5.5 MS-1, Including sand cover.
I-17	107	Cu. Yds.	Side Approaches Mail Box Turnouts & Berm Material.
I-8	11	Each	Manholes - Adjusted to Grade.
I 8	17	"	Inlet - Adjusted to Grade. (as per plan)
E-8	84	Sq. Yds.	Removal and Disposal of existing Bit. Con. Wearing Course.
E-8	50	Sq. Yds.	Removal and Disposal of Brick Wearing Course (estimated).
	Lump	Lump Sum	Maintaining Traffic, including Lights, Signs, Barricades & Watchmen, Twenty-four Hr. Serv.

DIV.				
2	OHIO		1946	4 8

LUCAS COUNTY
S.H. 54, SEC. SYLVANIA (PT.)



DIV. 2 OHIO 1948

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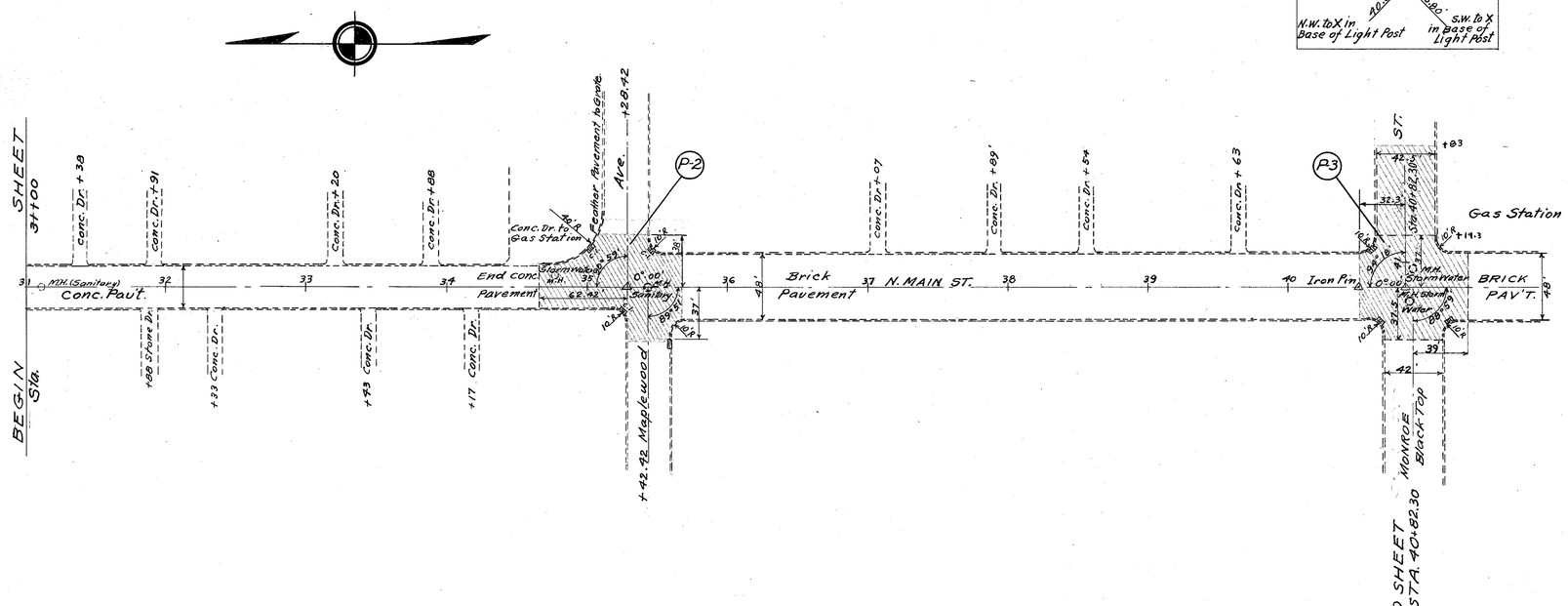
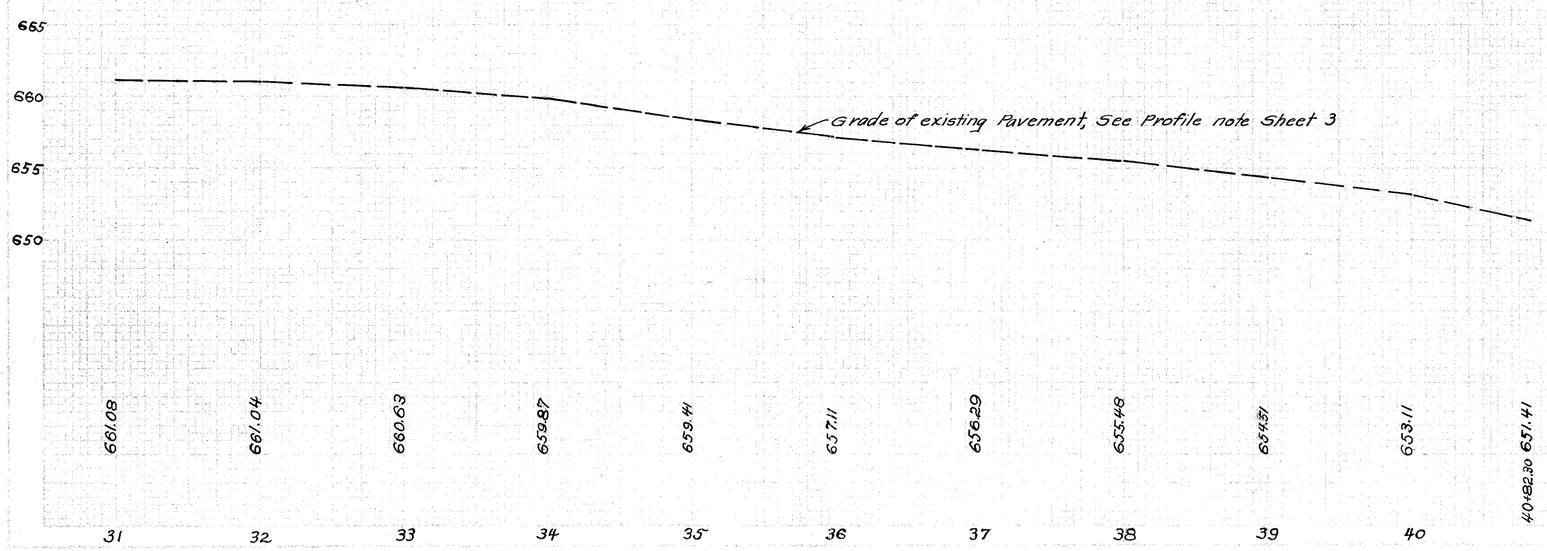
LUCAS COUNTY
S.H. 54, SEC. SYLVANIA (Pt.)

P.I. 40+82.30 Δ = 0°00'
N.E. to X in Base of Light Post.
N. to Iron Pin 32.96
P.I. set Tack
40.04
40.04
43.80
N.W. to X in Base of Light Post
S.W. to X in Base of Light Post



B.M. #8
B.M. #8 - N.E. Cor. of Conc. Base for Light Post.
Sta. 34+95 -
Elev. - 658.67

B.M. #9
B.M. #9 - S.E. Cor. of Con. Base for Gas Pump
Sta - 39+69 -
Elev. - 653.86



DIV.				
2	OHIO		1946	6 8

LUCAS COUNTY
S.H. 54 SEC. SYLVANIA, (Pt.)


P.I. 56+49.75 Δ=0°01' Rt.
North to S.W. Cor. of Bottom Block of Stone Pillar
55.32'
S.W. to N.E. Cor. of Cement Block Porch Pillar
67.11'
S.E. to N.W. Cor. of Porch Brick Pillar
53.75
P.I. Sta. 64+97.46 Δ= 1°-18' Lt.
N.W. to shiner in P.P.
39.58'
N.N.E to shiner in 20" Box Elder.
39.09'
N.E to Shimer in 20" Spruce
56.66'
Found Brass Cap.
52.62'
S.W. to shiner in 24" Poplar.
BEGIN Sta. SHEET 56+00
+50.75
Δ=0-00-30" Rt.
+49.75
0°01' Rt
+21.5 Brick Dr.
+08 Conc. Dr.
+34.5 Black Top Dr.
+98.5 Black Top Dr.
C.I.
Concrete Pavement
MONROE ST.
+82 Stone Dr.
34' Mac Dr.
+29
P-7
Car Tracks
26.5
40
20' R
P-6
24'
Harroun Rd.
63+31.82
+71 Stone Dr.
+97.46
1°-18' Lt.
P.C.
+78 Stone Dr.
P.T.
20' Mac. Pav't +20
29
P-8
Stone Dr.
+62.5
END Sta. SHEET 71+00
BM#13
B.M.#13- R.R. Spike in Power Pole
Sta. 60+20 Lt.
Elev~645.85
BM#14
BM#14~R.R. Spike in Power Pole
Sta. ~ 66+46, Lt.
Elev. ~ 643.35
650
645
640
Grade of existing Pavement, See Profile note Sheet 3
℄ Harroun Rd.
641.81
642.55
642.91
643.59
644.21
644.73
644.86
644.51
644.49
62+92
644.41
63+29
644.12
643.63
643.28
642.82
642.75
643.07
643.51
643.92
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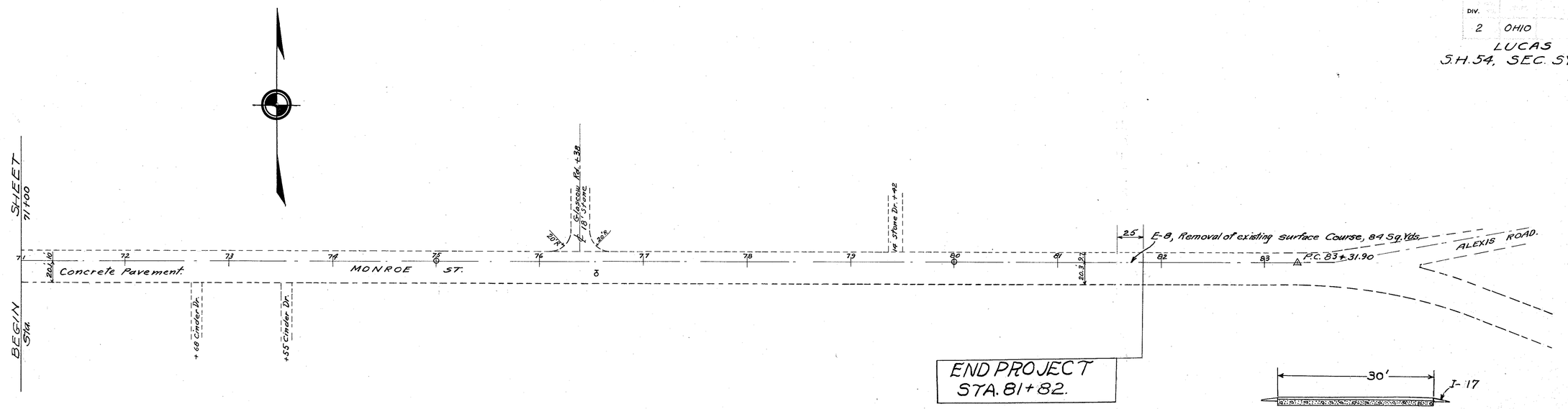
DIV. 8
2 OHIO 1946 8

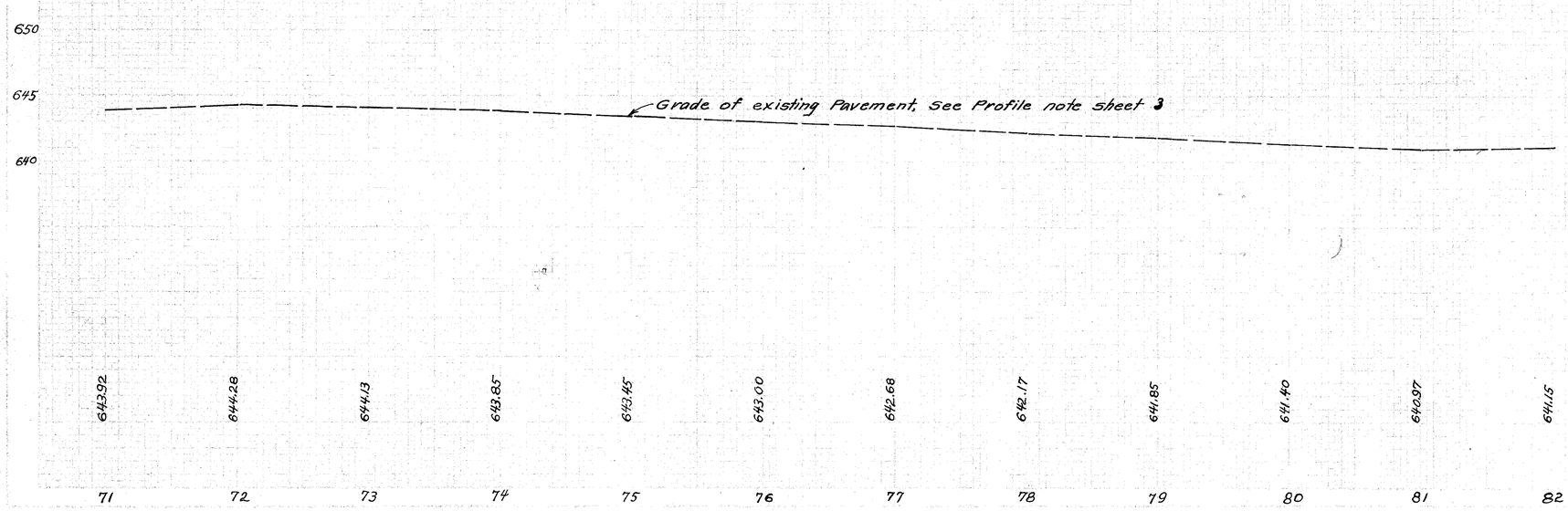
LUCAS COUNTY
S.H. 54, SEC. SYLVANIA, (Pt.)



Typical Section 2¾" Asphaltic Con. on Con. Base
Adjoining Project

BM #15
BM #15 - R.R. Spike in Power Pole
Sta. -73+48 Lt.
Elev. 644.55

BM #16
BM #16 - R.R. Spike in Power Pole
Sta. 78+85 Lt.
Elev. 642.78



10-43