1100

FED. RD. DIST. NO.	STATE	PROJECT	FISCAL YEAR
10	OHIO		1944

1/12

WILLIAMS COUNTY
S.H. 305, SEC. "BRYAN" (Pt.)
S.H. 306, SEC. "BRYAN" (Pt.)
S.H. 307, SEC. "BRYAN" & "B" (Pt.)
NORTH UNION ST. TEMP. U.S. 6

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BRYAN~DEFIANCE ROAD, S.H. 305, SEC. "BRYAN" (PT.)
BRYAN~PIONEER ROAD, S.H. 306, SEC. "BRYAN" (PT.)
BRYAN~WEST UNITY ROAD, S.H. 307, SEC. "BRYAN" & "B" (PT.)
NORTH UNION STREET TEMPORARY U.S.R. 6
CITY OF BRYAN
AND
PULASKI TOWNSHIP
WILLIAMS COUNTY

CONVENTIONAL SIGNS

COUNTY LINE
TOWNSHIP LINE
SECTION LINE
CORPORATION LINE
PROPERTY LINE
FENCE LINE
CENTER LINE
STEAM RAILROAD
POLE LINE — T (Telephone) P (Electric)
HEDGE
DRAIN PIPE (NEW)
DRAIN PIPE (OLD)
GUARD RAIL

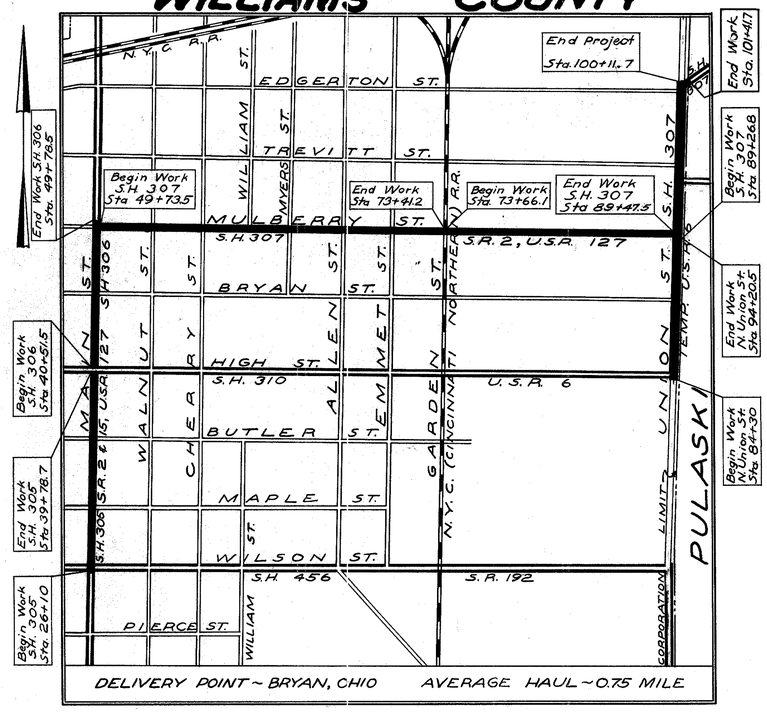
INDEX OF SHEETS

LINE DATA

S.H. 305, begin Work Sta. 26+10. End Work Sta. 39+78.7
Net Length of Work, S.H. 305, South Main St. = 1368.7 Lin. Ft.
S.H. 306, Begin Work Sta. 40+51.5. End Work Sta. 49+78.5
Net Length of Work, S.H. 306, North Main St. = 927.0 Lin. Ft.
S.H. 307, Begin Work Sta. 49+73.5. End Work Sta 89+47.5 (On E. Mulberry St.)
Gross Length S.H. 307, (E. Mulberry St) = 3974.0 Lin. Ft.
Less: R.R. Crossing, Sta. 73+41.2 to Sta. 73+66.1 = 24.9 Lin. Ft.
Net Length of Work, S.H. 307, (E. Mulberry St.) = 3949.1 Lin. Ft.
S.H. 307, Begin Work Sta. 89+26.8. End Proj. Sta. 100+11.7
Net Length of S.H. 307, (North Union St) = 1084.9 Lin. Ft.
N. Union St, Begin Work Sta. 84+30. End Work Sta. 94+20.5 (Temporary U.S.R. 6)
Net Length of Work, North Union St. (Temporary U.S.R. 6) = 990.5 Lin. Ft.
Total Length of Project = 8320.2 Lin. Ft.
Approach Sta. 100+11.7 to Sta. 101+41.7 = 130 Lin. Ft.
Total Length of Work = 8450.2 Lin. Ft. or 1.600 Miles.

38V

FILE NO.	WILLIAMS COUNTY S.H. 305, 306 & 307 SEC. BRYAN (PTS.) DATE OF LETTING CONTRACT NO.



LOCATION PLAN

0 250 500 1000 1500

PORTION TO BE IMPROVED
STATE HIGHWAYS
OTHER STREETS

SCALES

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 provisions for the maintenance and safety of traffic will be as set forth on the plans and estimates.

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

Approved: _____
Date: 6-18-44 Resident Division Deputy Director

Approved: _____
Date: ___ Chief Engineer Bureau of Maintenance

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

Approved: _____
Date: 8-2-44 Chief Engineer Bureau of Location & Right of Way

Approved: _____
Date: 8-2-44 First Asst. Director & Chief Engineer

Approved: _____
Date: 8-2-44 Director of Highways.

CONSTRUCTION BUREAU
JUL 22 1955
GROUND PHOTOLAB

STANDARD DRAWINGS	
G-7.07	6-1-42
I-12	7-1-42

SUPPLEMENTAL SPECIFICATIONS	
I-117	1-15-44
T-170.15	8-2-43
M-102.12	8-2-43
177	Rev. 4-21-44

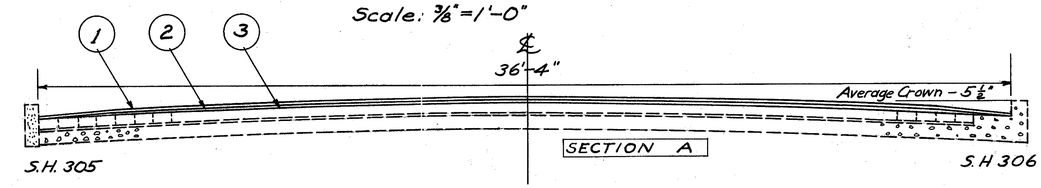
FED. AID DIST. NO.	STATE	PROJECT	FISCAL YEAR
10	OHIO		1944

2/12

WILLIAMS COUNTY
S.H. 305, Sec. "Bryan" (Pt.)
S.H. 306, Sec. "Bryan" (Pt.)
S.H. 307, Sec. "Bryan" & "B" (Pt.)
NORTH UNION ST. TEMP. U.S.6

TYPICAL SECTIONS
TYPE T-35

Scale: 3/8" = 1'-0"



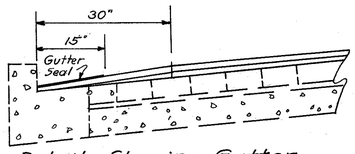
The Above Section Is To Be Used On S.H. 305
Also On S.H. 306

From Sta 26+55.5 To Sta. 30+55 = 399.5 Lin. Ft.
From Sta 45+06 To Sta. 49+68.5 = 462.5 Lin. Ft.
Total = 862.0 Lin. Ft.

(1) Item T-35 1½" Asphaltic Concrete Surface Course Type "B" or Type "B Modified" as per proposal.

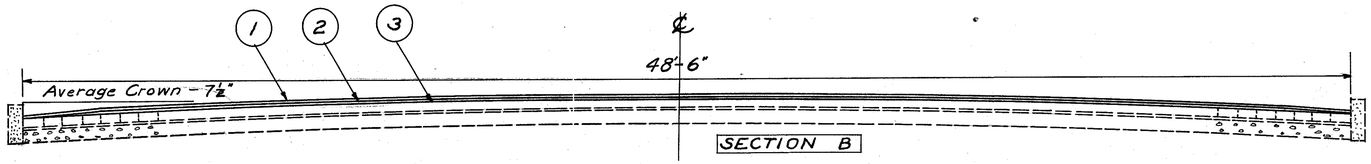
(2) Item B-35 ¾" Minimum Thickness, Asphaltic Concrete Leveling Course.

(3) Item T-30 Bituminous Prime Coat Using Bituminous Material Sec. M-5.12, AE-3 Applied at the rate of 0.10 Gal. per Sq. Yd. Including Sand Cover.



Detail Showing Gutter Resurfacing. Scale ¾" = 1'-0"

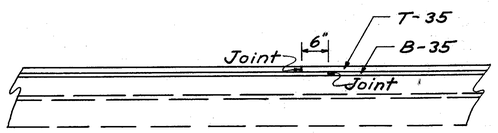
Note - Special care shall be exercised during construction to obtain maximum compaction of bituminous concrete in all gutters.



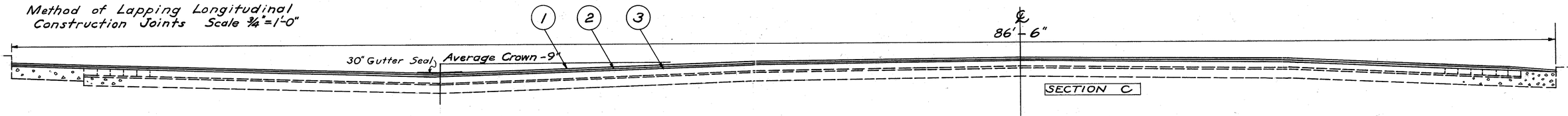
The Above Section Is To Be Used On S.H 305

From Sta 30+55 To Sta. 35+17.5 = Total = 462.5 Lin. Ft.

Note - All Existing Pavement is Grout Filled Brick on Sand Cushion With 6" Concrete Base, Brick or Concrete Gutter, Stone or Concrete Curbs.
Average Curb Height = 6"

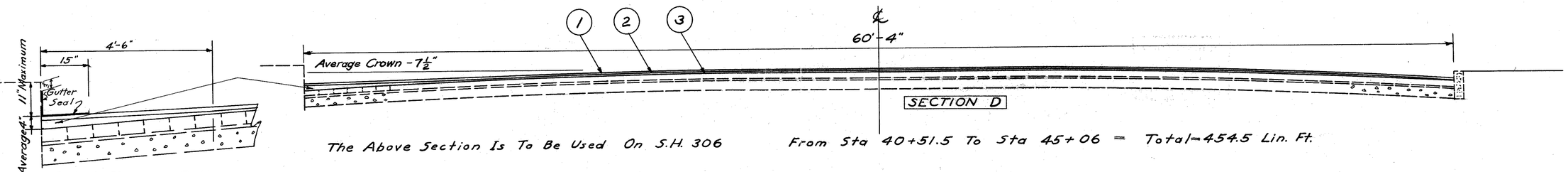


Method of Lapping Longitudinal Construction Joints Scale ¾" = 1'-0"



The Above Section Is To Be Used On S.H. 305

From Sta. 35+17.5 To Sta. 39+57 = Total = 439.5 Lin. Ft.



Detail Showing Gutter Resurfacing At Curbs between Sta. 40+51.5 to Sta. 44+80 Left

Note: Extra Thickness of B-35 Required At Gutter

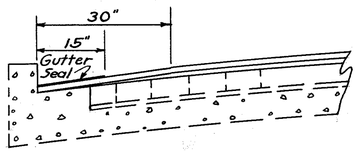
The Above Section Is To Be Used On S.H. 306

From Sta 40+51.5 To Sta 45+06 = Total = 454.5 Lin. Ft.

FED. AID DIST. NO.	STATE	PROJECT	FISCAL YEAR	
10	OHIO		1944	3 / 12

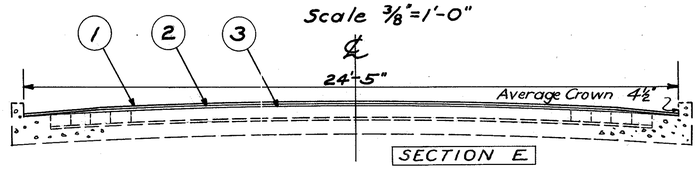
WILLIAMS COUNTY
S.H. 305, Sec. "Bryan" (Pt.)
S.H. 306, Sec. "Bryan" (Pt.)
S.H. 307, Sec. "Bryan" & "B" (Pt.)
NORTH UNION ST. TEMP. U.S. 6

TYPICAL SECTIONS
TYPE T-35



Detail Showing Gutter Resurfacing Scale 3/4"=1'-0"

Scale 3/8"=1'-0"

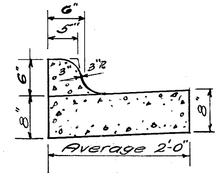


SECTION E

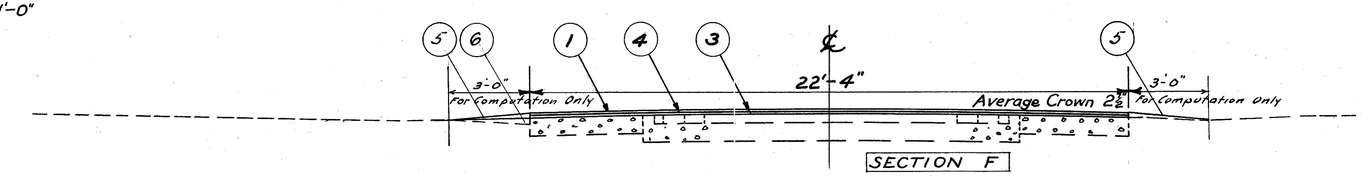
The Above Section Is To Be Used On S.H. 307

From Sta.	49+73.5	To	Sta. 73+41.2	=	2367.7 Lin. Ft.
From Sta.	73+66.1	To	Sta. 80+31	=	669.9 Lin. Ft.
From Sta.	81+21	To	Sta 88+98	=	777.0 Lin. Ft.
			Total	=	3809.6 Lin. Ft.

Note: This Section of Existing Pavement is Grout Filled Brick, On Sand Cushion over Concrete Base With Concrete Curb & Gutter. Average height of curb = 6"



Detail Showing Standard Concrete Combined Curb & Gutter Type 2. To Be Used At The S.W. Cor. of The Intersection. Of Mulberry & Union Streets S.H. 307



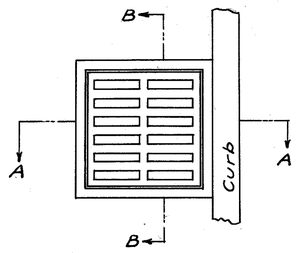
SECTION F

The Above Section To Be Used On S.H 307

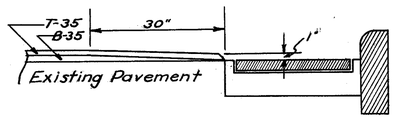
From Sta 89+26.8 To Sta. 99+18.3 = 991.5 Lin. Ft.
Total = 991.5 Lin. Ft.

Note: This Section of Existing Pavement is Grout Filled Brick On Concrete Base With Concrete Widening On Each Side.

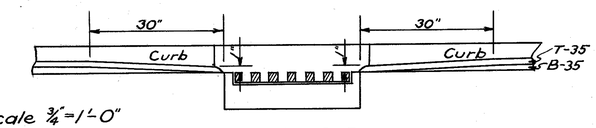
DETAIL OF SURFACING AT INLETS



PLAN AT INLETS

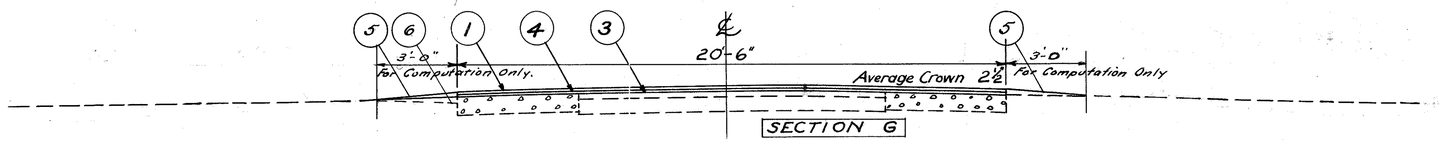


SECTION A-A



Scale 3/4"=1'-0"

SECTION B-B

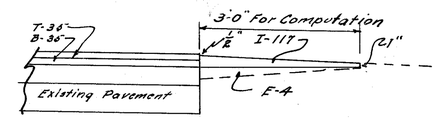


SECTION G

The Above Section To Be Used On North Union Street, Temporary U.S.R. 6 From Sta. 84+30 To Sta. 94+20.5 = 990.5 Lin. Ft. Total = 990.5 Lin. Ft.

Note: This Section of Existing Pavement is 6" W.B.Mac Base With 2½" Bit.Mac. Top With Concrete Widening On Each Side.

(1) Item T-35 1¼" Asphaltic Concrete Surface Course, Type "B" or Type "B" Modified" as per proposal.
(2) Item B-35 ¾" Minimum Thickness, Asphaltic Concrete Leveling Course.
(3) Item T-30 Bituminous Prime Coat using Bituminous Material, Sec. M-5.12, AE-3 applied at the rate of 0.10 Gals. per Sq. Yd. including Sand Cover.
(4) Item B-35 1¾" Minimum Thickness, Asphaltic Concrete Leveling Course.
(5) Item I-117 Side Approaches, Mail Box Turnouts & Berm Material.
(6) Item E-4 Borrow.



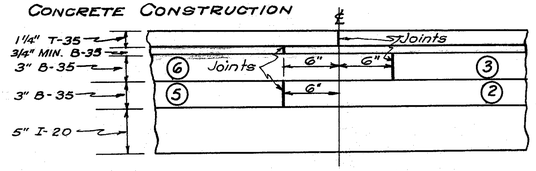
Detail Showing Edge Construction.
Scale 3/4"=1'-0"

FED AID DIST. NO	STATE	PROJECT	FISCAL YEAR	4
10	OHIO		1944	12

WILLIAMS COUNTY
S.H. 305 Sec "Bryan" (Pt.)
S.H. 306 Sec "Bryan" (Pt.)
S.H. 307 Sec "Bryan" & "B" (Pt.)
NORTH UNION ST. TEMP. US 6

TYPICAL SECTIONS
TYPE T-35

METHOD OF LAPPING LONGITUDINAL JOINTS IN BITUMINOUS CONCRETE CONSTRUCTION



(1) Remove sufficient old pavement to permit placing first half of new base and maintain traffic on remaining portion.

(2) Spread and compact first half of first 3" base course to a point 6" beyond the centerline.

(3) Spread and compact first half of second 3" base course to a point 6" short of the centerline.

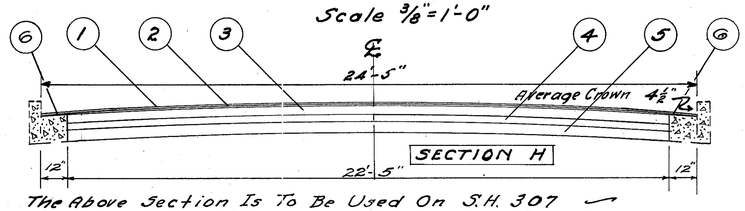
(4) Maintain traffic on new half of base and remove rest of old pavement.

(5) Spread and compact second half of first 3" base course.

(6) Spread and compact second half of second 3" base course.

(7) Spread and compact leveling and surface courses, lapping as shown after both sides of base courses are compacted.

Scale 3/8" = 1'-0"



The Above Section Is To Be Used On S.H. 307
From Sta 80+31.0 To Sta. 81+21.0 = 90.0 Lin. Ft.
Total = 90.0 Lin Ft.

(1) Item T-35 1 1/4" Asphaltic Concrete Surface Course, Type "B" or Type "B Modified" as per proposal

(2) Item B-35 3/4" Minimum Thickness, Asphaltic Concrete Leveling Course

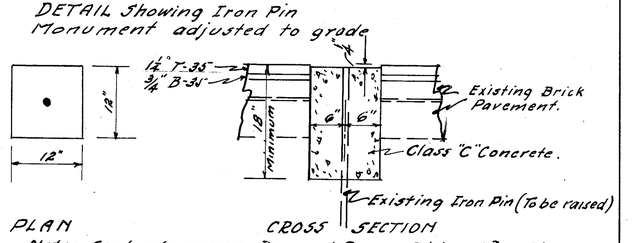
(3) Item B-35 3" Asphaltic Concrete First Base Course

(4) Item B-35 3" Asphaltic Concrete Second Base Course.

(5) Item I-20 5" Insulation Course (Coarse Graded Type.

(6) Item T-30 Bituminous Prime Coat Using Bituminous Material Sec. M.-5.12, AE-3 Applied at the rate of 0.10 Gal. per Sq. Yd. Including Sand Cover

DETAIL Showing Iron Pin Monument adjusted to grade



Note: Cost of necessary Pavement Removal, Raising of Iron Pin and of Class "C" Concrete is included in the Unit Price for adjusting Monuments to Grade, Item I-B.

GENERAL NOTES

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 G-7.07, Barricades, Danger & Warning Signs, the Contractor shall display one "PLEASE - MEN WORKING ON ROAD" sign furnished by the State at each end of each one way zone and in such a position as to be visible to traffic approaching the one way zone.

The Contractor shall be responsible for the preservation of these signs, shall advance the signs as work progresses and shall return the signs to the State at 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" sign to secure the flow of traffic twenty-four (24) hours daily.

PROFILE The profile of the proposed surface coarse shall be approximately 2 or 3 inches above that of the existing pavement as shown on the typical sections.

PRIME COAT INCLUDING SAND COVER:- Bituminous Prime Coat, Section M-5.12 AE-3 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 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 at such time and in such condition that it will adhere to the bituminous material. Payment for sand cover is included in the price bid per gallon 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 the leveling course and prior to placing the surface course. Compaction of the material around castings inaccessable to rollers shall be in accordance with the requirements of Section T-50.21.

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 bituminous material in accordance with Section E-10.02. The cost of such operations and material shall be included in the price bid for bituminous concrete.

TIME INTERVAL BETWEEN PLACING LEVELING & SURFACE COURSES In general no leveling course shall remain without being covered by a surface course for more than 72 hours except in municipal construction where the time shall be determined by the Engineer on the basis of incidental construction items.

TREATMENT OF FEATHERED AREA:- Where directed the new surface course 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 unit price bid for bituminous concrete.

RAILROAD CROSSING:- The new surface course shall be feathered to meet the rail grades if necessary.

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 15 inches from the curb or 30 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.

GUTTER SEAL (Continued) The cost of such operation and material shall be included in the price bid for bituminous concrete.

BITUMINOUS CONCRETE BASE COURSE. Base course may be constructed of Type "A" surface course composition

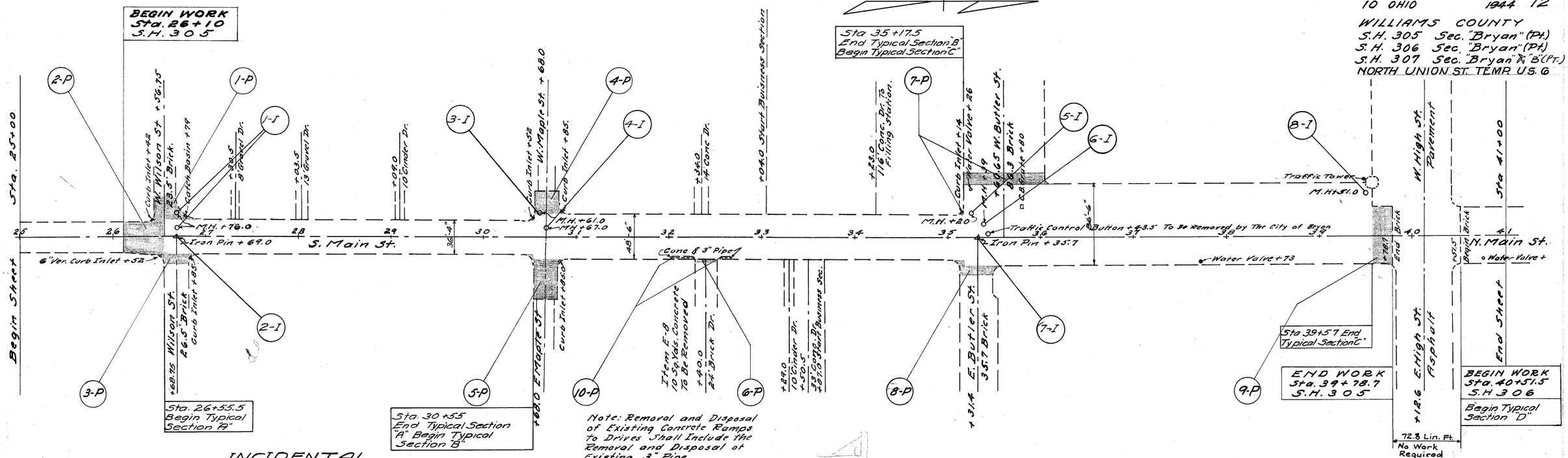
CLEANING EXISTING PAVEMENT:- As a part of the work required by Section T-35.16, The Contractor shall remove all accumulations of material built up at all joints or cracks before spreading any bituminous material.

UTILITIES:- All work required to relocate or adjust, etc. all Gas, Water, Telephone and (or) Telegraph, Electric and other services encountered during progress shall be completed by the Utilities in question or the Corporation of Bryan except as otherwise provided by the plan and estimate.

COMPACTION OF SUBGRADE:- Loosening and watering of subgrade in cuts according to Section E-1.11 will not be required if density requirements can be met by additional rolling. However, if at any time the subgrade contains an excess of moisture as indicated by distortion under the roller, the subgrade shall be aerated by discing or other suitable means until the moisture content has been reduced sufficiently to permit recompaction to the density required by the specifications.

10 OHIO 1944 12

WILLIAMS COUNTY
S.H. 305 Sec. "Bryan" (Pt.)
S.H. 306 Sec. "Bryan" (Pt.)
S.H. 307 Sec. "Bryan" & "B" (Pt.)
NORTH UNION ST. TEMP. U.S. 6



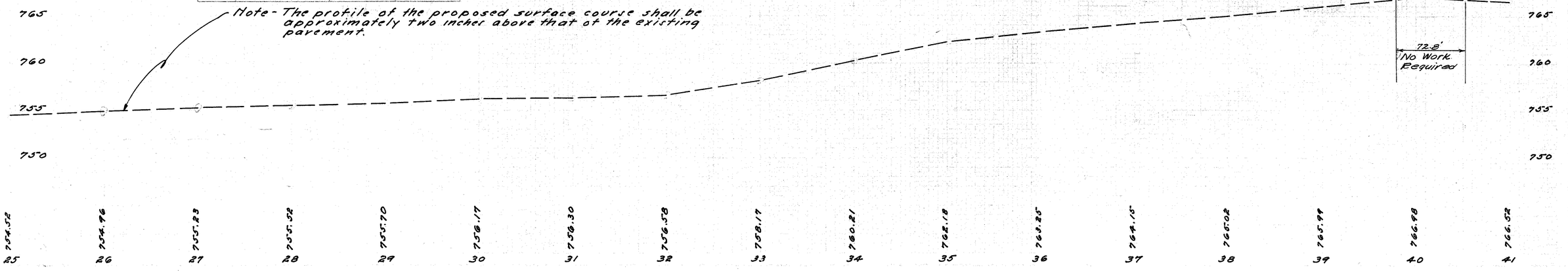
INCIDENTAL CONSTRUCTION "I"

Ref. No	Station	Side	I-8 Adjust Manhole Tops to Grade Each	I-8 Adjust Iron Pins & Mon. Boxes to Grade Each
1-I	26+76	Lt.	2	
2-I	26+69	℄		1
3-I	30+61	Lt.	1	
4-I	30+67	Lt.	1	
5-I	35+20	Lt.	1	
6-I	35+39	Lt.	1	
7-I	35+31.4	℄		1
8-I	39+51	Lt.	1	
Totals			7	2

BM #1 Sta. 26+36 S.W. Flange Bolt on Fire Hydrant Elev. 757.19

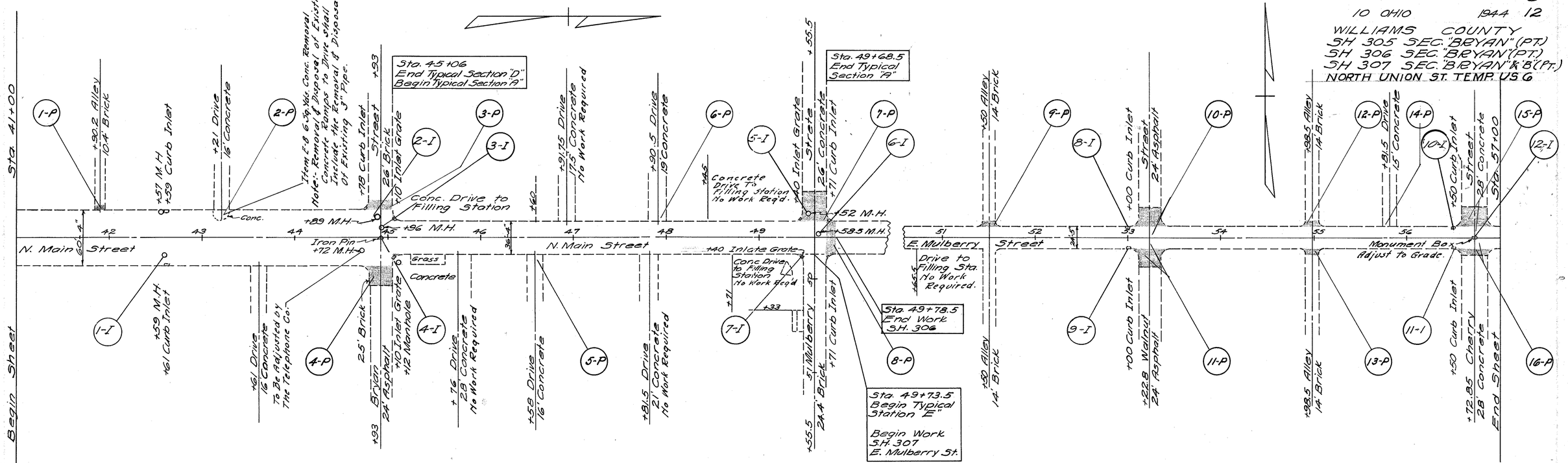
EXTRA PAVEMENT "P"

Ref. No.	Station From	Station To	Side	T-35 Surface Course Sq. Yds. Municipal	B-35 ½" Leveling Course Sq. Yds. Municipal	T-30 Prime Coat Sq. Yds	E-8 Rem. & Disp. Conc. Ramp Sq. Yds	BM #2 Sta. 40+70 W. Flange Bolt on Hydrant Elevation 768.97
1-P	26+56.75		Lt.	85.1	42.6	85.1		
2-P	26+10	26+55.75	℄	201.0	100.5	201.0		
3-P	26+69		Rt.	34.2	17.1	34.2		
4-P	30+68		Lt.	77.9	39.0	77.9		
5-P	30+68		Rt.	73.5	36.8	73.5		
6-P	32+40		Rt.	8.5	4.3	8.5		
7-P	35+17.5		Lt.	117.5	58.8	117.5		
8-P	35+31.		Rt.	47.2	23.6	47.2		
9-P	39+57	39+78.7	℄	147.8	147.8	147.8		
10-P	32+00	32+65	Rt.				10	
TOTALS				792.7	469.5	792.7	10	



10 OHIO 1944 12

WILLIAMS COUNTY
SH 305 SEC. "BRYAN" (PT.)
SH 306 SEC. "BRYAN" (PT.)
SH 307 SEC. "BRYAN" & "B" (PT.)
NORTH UNION ST. TEMP. US 6



EXTRA PAVEMENT "P"

Ref. No.	Station From	Station To	Side	T-35 Surface Course Sq. Yds. Municipal	B-35, 3/4" Leveling Course Sq. Yds. Municipal	T-30 Prime Coat Sq. Yds. Municipal	E-8 Rem. & Disp. Conc. Ramps Sq. Yds. Municipal	E-8 Rem. & Disp. Brick Surface Course at Street Intrs. Sq. Yds. (Estimated)	B-35 Leveling Course or Removal of Crown at Street Intrs. Cu. Yds. (Estimated)
1-P	41+90.2		Lt	8.7	4.4	8.7			
2-P	43+21		Lt				6.0		
3-P	44+93		Lt	33.7	16.9	33.7			
4-P	44+93		Rt	60.3	30.2	60.3			
5-P	46+58		Rt	5.3	2.7	5.3			
6-P	47+90.5		Lt	12.7	6.4	12.7			
7-P	49+55.5		Lt	97.2	48.6	97.2			
8-P	49+55.5		℄	44.8	22.4	44.8			
9-P	51+50		Lt	11.6	5.8	11.6			
10-P	53+22.8		Lt	59.0	29.5	59.0		50.0	2.0
11-P	53+22.8		Rt	55.0	27.5	55.0		50.0	2.0
12-P	54+98.5		Lt	11.1	5.6	11.1			
13-P	54+98.5		Rt	11.1	5.6	11.1			
14-P	55+81.5		Lt	9.0	4.5	9.0			
15-P	56+72.85		Lt	71.7	35.9	71.7		50.0	2.0
16-P	56+72.85		Rt	25.0	12.5	25.0		50.0	2.0
	TOTAL			516.2	258.5	516.2	6.0	200.0	8.0

B.M. #3 Sta. 51+85
NW Cor. Bot. Step to House
Elev. 769.64

INCIDENTAL CONSTRUCTION "I"

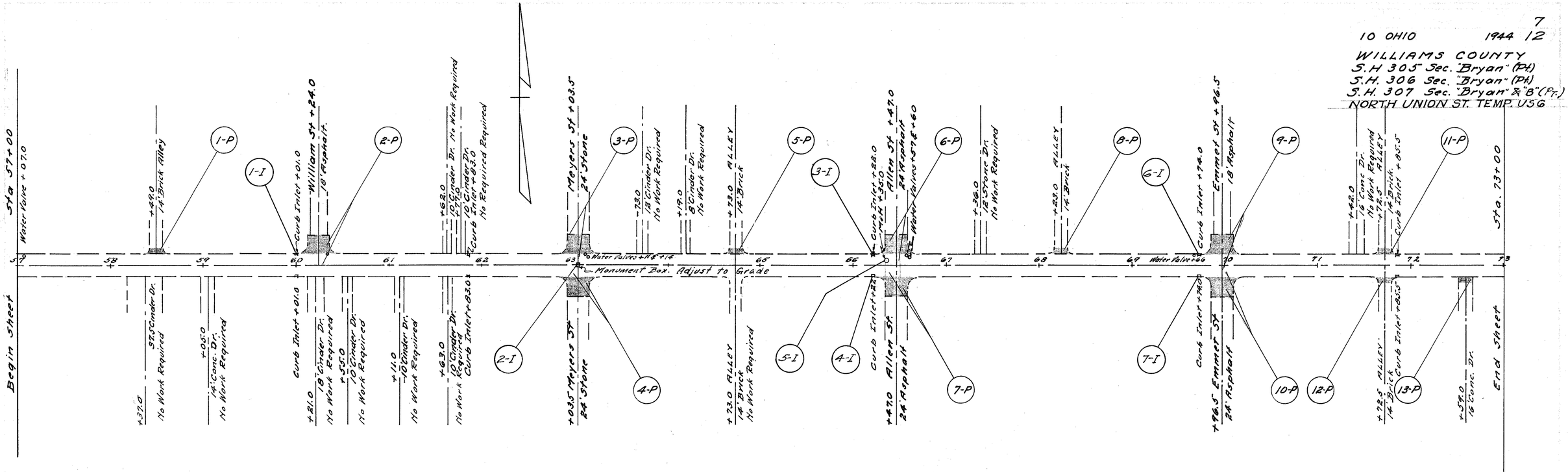
Ref. No.	Station	Side	I-8 Adjust Manhole Tops to Grade Each	I-8 Adjust Iron Pins & Mon. Boxes to Grade Each	I-8 Adjust Inlet Castings to Grade Each
1-I	42+59	Rt.	1		
2-I	44+89	Lt.	1		
3-I	44+96	Lt.	1		
4-I	44+93	℄		1	
5-I	49+52	Lt.	1		
6-I	49+58.5	Lt.	1		
7-I	49+40	Rt.			1
8-I	53+00	Lt.			1
9-I	53+00	Rt.			1
10-I	56+50	Lt.			1
11-I	56+50	Rt.			1
12-I	56+72.85	℄		1	
Totals			5	2	5

Note: The profile of the proposed surface course shall be approximately two inches above that of the existing pavement.

41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
766.32	766.16	766.08	766.21	766.45	766.52	766.53	767.15	767.46	767.71	768.24	768.08	767.92	767.67	767.04	766.08	764.91

10 OHIO 1944 12

WILLIAMS COUNTY
S.H. 305 Sec. "Bryan" (PA)
S.H. 306 Sec. "Bryan" (PA)
S.H. 307 Sec. "Bryan" & "B" (PT.)
NORTH UNION ST. TEMP. U56



BM. #4 Sta. 60+76
SE Cor. Bot. Conc. Step of Walk to House
Elev. 759.59

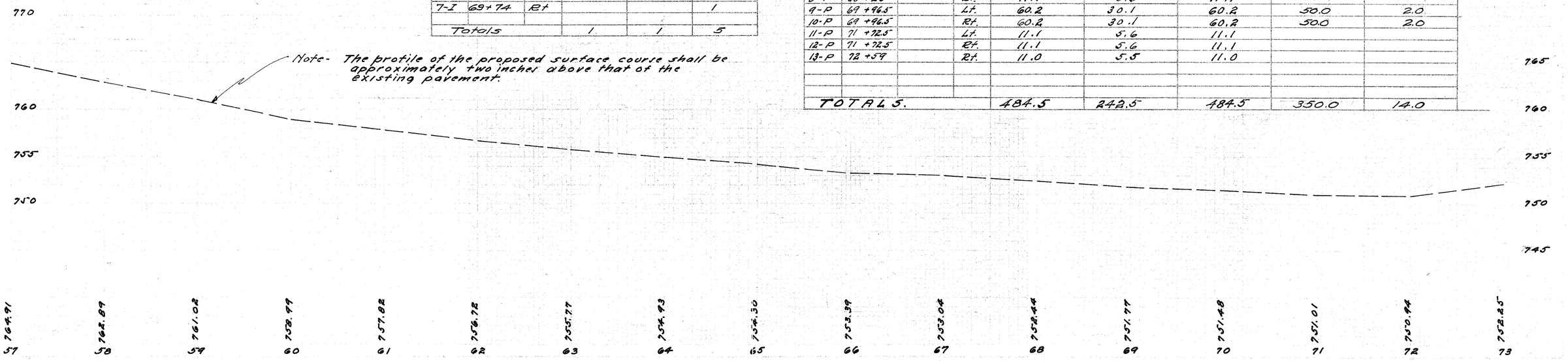
INCIDENTAL CONSTRUCTION "I"

Ref. No.	Station	Side	I-8 Adjust Manhole Tops to Grade Each	I-8 Adjust Iron Pins & Mon. Boxes to Grade Each	I-8 Adjust Inlet Castings to Grade Each
1-I	60+01	Lt.			1
2-I	63+03.5	℄		1	
3-I	66+22	Lt.			1
4-I	66+22	Rt.			1
5-I	66+35	Lt.	1		
6-I	69+74	Lt.			1
7-I	69+74	Rt			1
Totals			1	1	5

EXTRA PAVEMENT "P"

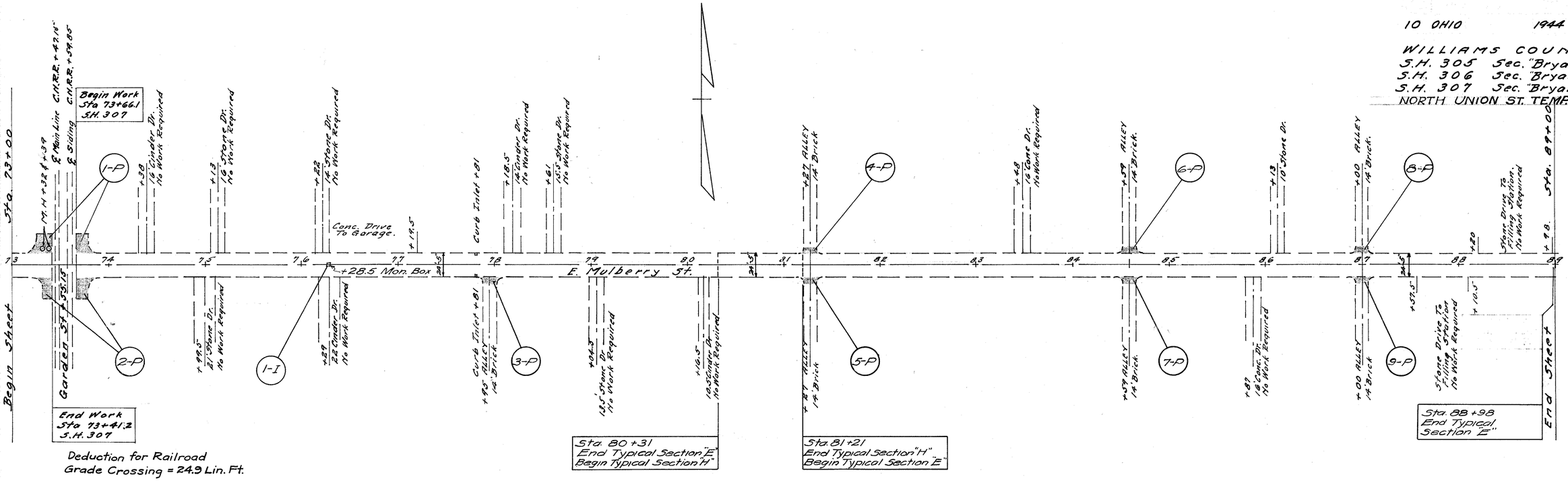
Ref. No.	Station From	Station To	Side	T-35 Surface Course Sq. Yds	B-35 3/4 Leveling Course Sq. Yds	T-30 Prime Coat Sq. Yds.	E-8 Rem. & Disp. Brick Surface Course at Street Interv. Sq. Yds. (Estimated)	B-35 Leveling Course for Removal of Crown at Street Interv. Cu. Yds. (Estimated)
1-P	58+39		Lt.	11.1	5.6	11.1		
2-P	60+24		Lt.	60.2	30.1	60.2	50.0	2.0
3-P	63+03.5		Lt.	60.2	30.1	60.2	50.0	2.0
4-P	63+03.5		Rt.	59.4	29.7	59.4	50.0	2.0
5-P	64+73		Lt.	11.1	5.6	11.1		
6-P	66+47		Lt.	60.2	30.1	60.2	50.0	2.0
7-P	66+47		Rt.	57.6	28.8	57.6	50.0	2.0
8-P	68+23		Lt.	11.1	5.6	11.1		
9-P	69+96.5		Lt.	60.2	30.1	60.2	50.0	2.0
10-P	69+96.5		Rt.	60.2	30.1	60.2	50.0	2.0
11-P	71+72.5		Lt.	11.1	5.6	11.1		
12-P	71+72.5		Rt.	11.1	5.6	11.1		
13-P	72+59		Rt.	11.0	5.5	11.0		
TOTALS.				484.5	242.5	484.5	350.0	14.0

BM. #5 Sta 70+20
S. Flange Bolt of Hydrant
Elev 754.22



10 OHIO 1944 12

WILLIAMS COUNTY
S.H. 305 Sec. "Bryan" (PH.)
S.H. 306 Sec. "Bryan" (PH.)
S.H. 307 Sec. "Bryan" & "B" (PH.)
NORTH UNION ST. TEMP. U.S.6



Deduction for Railroad Grade Crossing = 24.9 Lin. Ft.

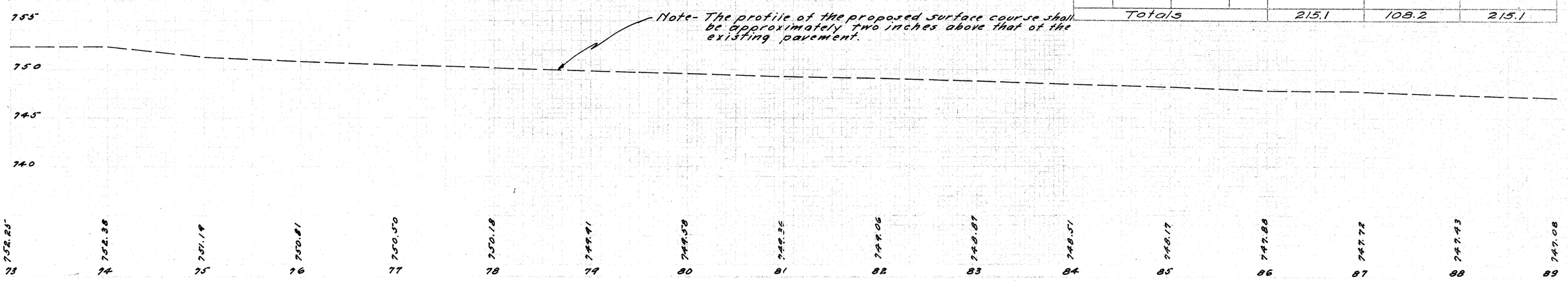
INCIDENTAL CONSTRUCTION "I"

Ref. No.	Station	Side	I-8 Adjust Iron Pins & Mon. Boxes to Grade Each	
I-I	76+28.5	℄	1	
Total			1	

B.M #6 Sta 81+15
SW Flange Bolt on Hydrant
Elev. 752.31

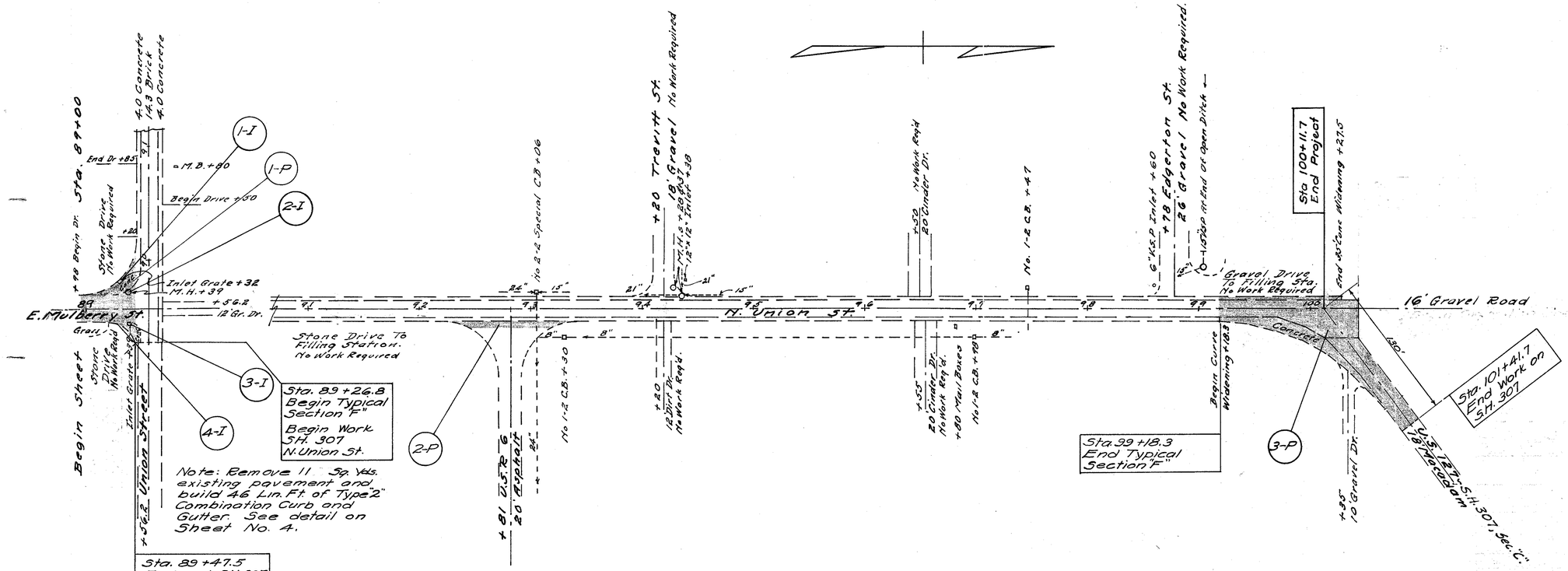
EXTRA PAVEMENT "P"

Ref. No.	Station From	Station To	Side	T-35 Surface Course Sq. Yds Municipal	B-35, ¾" Leveling Course Sq. Yds Municipal	T-30 Prime Coat Sq. Yds Municipal
1-P	73+55.15		Lt.	81.2	40.6	81.2
2-P	73+55.15		Rt.	56.8	28.4	56.8
3-P	77+95		Rt.	11.1	5.6	11.1
4-P	81+27		Lt.	11.1	5.6	11.1
5-P	81+27		Rt	11.1	5.6	11.1
6-P	84+59		Lt	11.1	5.6	11.1
7-P	84+59		Rt.	11.1	5.6	11.1
8-P	87+00		Lt.	11.1	5.6	11.1
9-P	87+00		Rt	11.1	5.6	11.1
Totals				215.1	108.2	215.1



10 OHIO 1944 12

WILLIAMS COUNTY
S.H. 305 Sec "Bryan" (PH)
S.H. 306 Sec "Bryan" (PH)
S.H. 307 Sec "Bryan "A" B" (PH)
NORTH UNION ST. TEMP. USG



BM #7 Sta. 93+30 SW. Cor. E. Rail CB Elev. 745.35

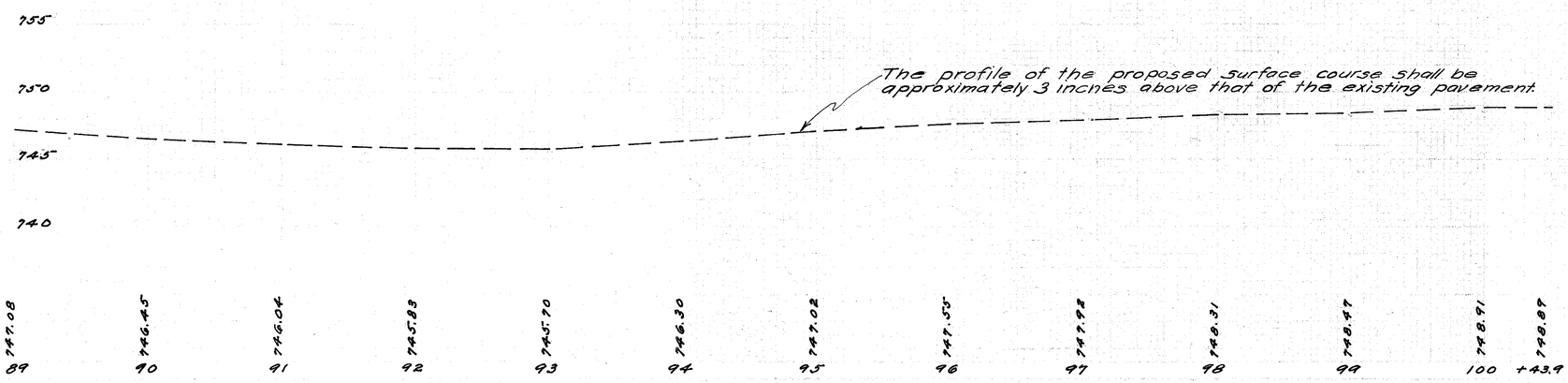
BM #8 Sta. 98+34 3 Bolt on Hydrant Elev. 750.43

INCIDENTAL CONSTRUCTION "I"

Ref. No.	Station	Side	I-8 Adjust Manhole Tops to Grade Each	I-8 Adjust Inlet Castings to Grade Each	E-8 Removal & Disposal of Existing Pavement Sq. Yds	I-12 Combination Curb & Gutter Type 2 Lin. Ft
1-I	89+32	Lt		1		
2-I	89+39	Lt	1			
3-I	89+39	Rt		1		
4-I	89+21	Rt			11	46
Totals			1	2	11	46

EXTRA PAVEMENT "P"

Ref. No.	Station From	Station To	Side	T-30 Prime Coat Sq. Yds. Municipal	T-35 Surface Course Sq. Yds. Municipal	B-35, 1¾" Leveling Course Sq. Yds. Municipal
1-P	89+56.2		Lt.	140.0	140.0	140.0
2-P	92+81		Rt.	60.0	60.0	30.0
3-P	99+18.3	101+41.7	Lt.	795.0	795.0	775.0
Totals				995.0	995.0	945.0



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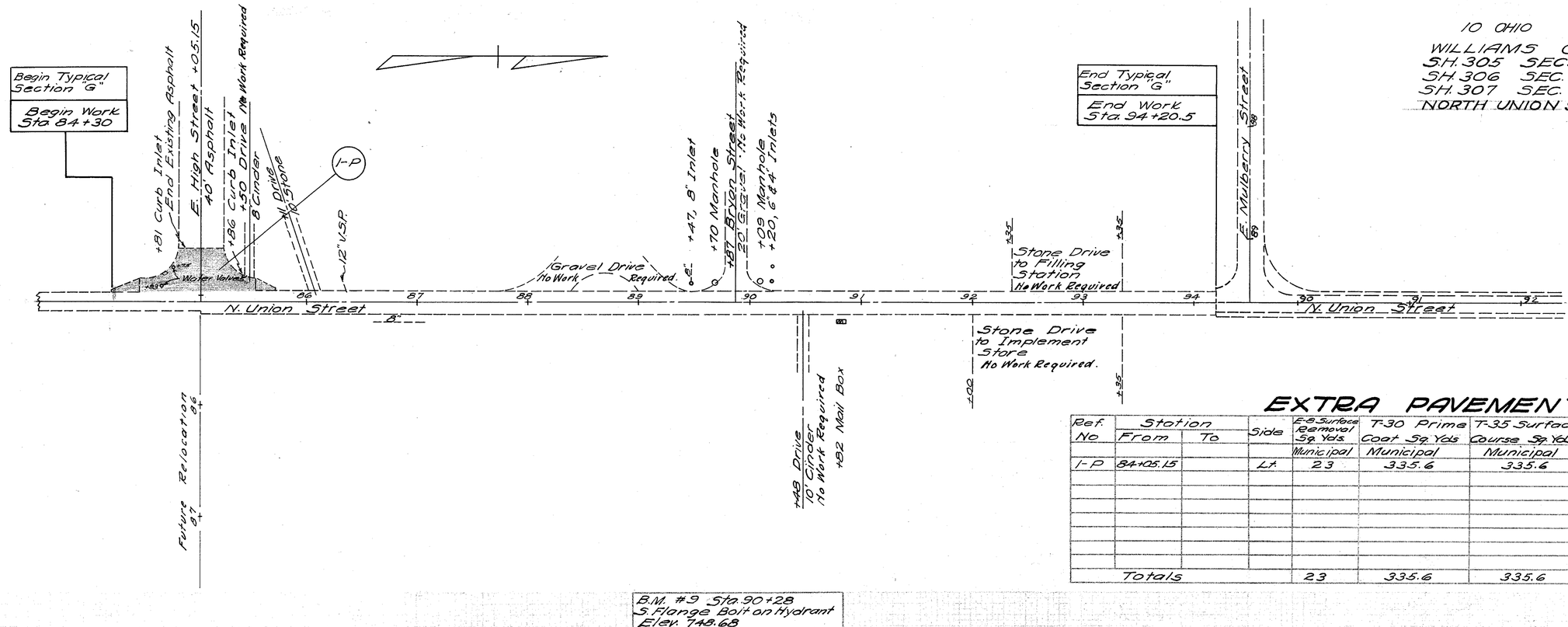
10 OHIO 1944 12

WILLIAMS COUNTY
S.H. 305 SEC. "BRYAN" (PT.)
S.H. 306 SEC. "BRYAN" (PT.)
S.H. 307 SEC. BRYAN "A" & "B" (PT.)
NORTH UNION ST. TEMP. US 6



EXTRA PAVEMENT "P"

Ref. No	Station From	Station To	Side	E-3 Surface Removal Sq. Yds. Municipal	T-30 Prime Coat Sq. Yds Municipal	T-35 Surface Course Sq. Yds Municipal	B-35, 1½" Leveling Course Sq. Yds Municipal
1-P	84+05.15		Lt.	23	335.6	335.6	335.6
Totals				23	335.6	335.6	335.6

B.M. #9 Sta. 90+28
S. Flange Bolt on Hydrant
Elev. 748.68

Note - The profile of the proposed surface course shall be approximately three inches above that of the existing pavement.

750

745

85	86	87	88	89	90	91	92	93	94	95
746.00	745.88	746.00	746.13	746.31	746.45	746.74	746.89	746.97	747.08	746.96

PAVEMENT COMPUTATIONS

FED. RD DIST. NO.	STATE	PROJECT	FISCAL YEAR
10	OHIO		1944

11
12

WILLIAMS COUNTY
S.H. 305 SEC. BRYAN (PT.)
S.H. 306 SEC. BRYAN (PT.)
S.H. 307 SEC. BRYAN & "B" (PT.)
NORTH UNION ST. TEMP. U.S. 6

Net Length of Typical Section "A" = 862.0 Lin. Ft.
Width of Surface Course = 36.33', Average Width Leveling Course = 33.83 Lin. Ft.
Area of Surface Course = 862 × 36.33 ÷ 9 = 34796 Sq. Yds.
Area of 3/4" Leveling Course = 862 × 33.83 ÷ 9 = 3240.2 Sq. Yds.
Net Length of Typical Section "B" = 462.5 Lin. Ft.
Width of Surface Course = 48.5', Width of Leveling Course = 46.0'
Area of Surface Course = 462.5 × 48.5 ÷ 9 = 2492.4 Sq. Yds.
Area of 3/4" Leveling Course = 462.5 × 46 ÷ 9 = 2363.9 Sq. Yds.
Net Length of Sec. "C" = 439.5 Lin. Ft.
Width of Surface Course = 86.5' Width of Leveling Course = 85.25'
Area of Surface Course = 439.5 × 86.5 ÷ 9 = 4224.1 Sq. Yds.
Area of 3/4" Leveling Course = 439.5 × 85.25 ÷ 9 = 4163.0 Sq. Yds.
Net Length of Section "D" = 454.5 Lin. Ft.
Width of Surface Course = 60.33', Width of Leveling Course = 59.08'
Area of Surface Course = 454.5 × 60.33 ÷ 9 = 3046.7 Sq. Yds.
Area of 3/4" Leveling Course = 454.5 × 59.08 ÷ 9 = 2983.5 Sq. Yds.
Net Length of Typical Section "E" = 3809.6 Lin. Ft.
Width of Surface Course = 24.42', Width of Leveling Course = 21.92'
Area of Surface Course = 3809.6 × 24.42 ÷ 9 = 10336.7 Sq. Yds.
Area of 3/4" Leveling Course = 3809.6 × 21.92 ÷ 9 = 9278.5 Sq. Yds.
Net Length of Typical Section "H" = 90 Lin. Ft.
Width of Surface Course = 24.42', Width of Leveling Course = 21.92'
Width of Base Course = 22.42'
Area of Surface Course = 90 × 24.42 ÷ 9 = 244.2 Sq. Yds.
Area of 3/4" Leveling Course = 90 × 21.92 ÷ 9 = 219.2 Sq. Yds.
Area of Base Course = 90 × 22.42 ÷ 9 = 224.2 Sq. Yds.
Net Length of Typical Section "F" = 991.5 Lin. Ft.
Width of Surface Course = 22.33', Width of Leveling Course = 22.33'
Area of Surface Course (Municipal) = 991.5 × $\frac{22.33}{2}$ ÷ 9 = 1230.0 Sq. Yds.
Area of Surface Course (Municipal) 1230.0 Sq. Yds.
Area of 1 3/4" Leveling Course (Municipal) Same as Surface Course = 1230.0 Sq. Yds.
Area of 1 3/4" Leveling Course (Munipl.) Same as Surface Course = 1230.0 Sq. Yds.
Net Length of Typical Section "G" = 990.5 Lin. Ft.
Width of Surface Course = 20.5', Width of Leveling Course = 20.5'
Area of Surface Course (Municipal) = 990.5 × $\frac{20.5}{2}$ ÷ 9 = 1128.1 Sq. Yds.
Area of Surface Course (Municipal) = 1128.1 Sq. Yds.
Area of 1 3/4" Leveling Course (Municipal) Same as Surface Course = 1128.1 Sq. Yds.
Area of 1 3/4" Leveling Course (Municipal) Same as Surface Course = 1128.1 Sq. Yds.

~MUNICIPAL~

Item T-35, 1 1/4" Asphaltic Concrete Surface Course Type "B" or Type "B" Mod. as per proposal
Area 1 1/4" Surface Course Typical Section A, B, C, D, E, F, G, & H = 3479.6 + 2492.4 + 4224.1 + 30467 + 10336.7 + 1230.0 + 1128.1 + 244.2 = 26181.8 Sq. Yds.
Area 1 1/4" Surface Course in Extra Pavement Areas = 2880.7 Sq. Yds.
Total Area 1 1/4" Surface Course = 29062.5 Sq. Yds.
Volume = 29062.5 × 1 1/4" ÷ 36 = 1009.1 Cu. Yds. Use 1009 Cu. Yds.

Item B-35, Asphaltic Concrete Leveling Course.
Area 3/4" Leveling Course Typical Sections A, B, C, D, E & H = 3240.2 + 2363.9 + 4163.0 + 2983.5 + 9278.5 + 219.2 = 22248.3 Sq. Yds.
Area 3/4" Leveling Course in Extra Pavement = 1253.7 Sq. Yds.
Total Area 3/4" Leveling Course = 23502.0 Sq. Yds.
Volume = 23502 × 3/4" ÷ 36 = 489.6 Cu. Yds.
Area 1 3/4" Leveling Course, Typical Sections "F" & "G" = 1230.0 + 1128.1 = 2358.1 Sq. Yds.
Area 1 3/4" Leveling Course in Extra Pavement Areas = 622.2 Sq. Yds.
Total Area 1 3/4" Leveling Course 2980.3 Sq. Yds.
Volume = 2980.3 × 1 3/4 ÷ 36 = 144.9 Cu. Yds.
Extra Leveling Material to correct Surface variations.
Typical Section "A" = (862 ÷ 5280) × 175 (Cu. Yds. per Mile) = 28.5 Cu. Yds.
" " "B" = (462.5 ÷ 5280) × 200 = 17.5 Cu. Yds.
" " "C" = (439.5 ÷ 5280) × 300 = 25.0 Cu. Yds.
" " "D" = (454.5 ÷ 5280) × 250 = 21.5 Cu. Yds.
" " "E" = (3809.6 ÷ 5280) × 100 = 72.2 Cu. Yds.
" " "F" = (991.5 ÷ 5280) × 150 ÷ 2 = 14.1 Cu. Yds.
" " "G" = (990.5 ÷ 5280) × 150 ÷ 2 = 14.1 Cu. Yds.
Extra Leveling Material to decrease curb height between Sta. 40+51.5 to Sta. 44+80, Left. (Estimated Volume) = 18 Cu. Yds.
Extra Leveling Material to eliminate cross street crowns which extend into straight-a-way (from Summary) = 22 Cu. Yds.

Total Asphaltic Concrete Leveling Course = 867.4 Cu. Yds.
Use 868 Cu. Yds.

Item B-35, 3" Asphaltic Concrete First Base Course (Typical Section "H")
Volume = 90 × 22.42 × 3/12 ÷ 27 = 18.7 C
Volume of 3" Asphaltic Concrete Second Base Course = 18.7 Cu. Yds.
Total Volume Asphaltic Concrete Base Course = 37.4 Cu. Yds. Use 38 Cu. Yds.

Item I-20, 5" Insolation Course
Area = 90 × 22.42 ÷ 9 = 224.2 Sq. Yds. Use 225 Sq. Yds.

Item T-30, Bituminous Prime Coat
Area = (Same as Area of Surface Course) = 29062.5 Sq. Yds.
Deduct for new pavement area (Typical Section "H") = 90 × 22.42 ÷ 9 = 224.2 Sq. Yds.
Total Area to be primed = 28838.3 Sq. Yds.
Volume = 28838.3 × 0.10 = 2883.8 Gal. Use 2884 Gal.

Item I-117, Side Approaches, Mail Box Turnouts, and Berm Material
Length = 991.5 + 990.5 = 1982 Lin. Ft.
Width = 3'-0", Average Depth = 2"
Volume = (1982 × 3 × 0.17) ÷ 27 = 37.3 Cu. Yds.
Add for Intersection 3-P Sheet No. 9 2.5 Cu. Yds.
Total = 39.8 Cu. Yds.
Add 15% for Compaction = 39.8 × 1.15 = 45.8 Cu. Yds. Use 46 Cu. Yds.

Item E-1, Roadway Excavation (Estimated Quantity) = 50 Cu. Yds.

Item E-4, Borrow (Estimated Quantity) = 100 Cu. Yds.

Item T-35, 1 1/4" Asphaltic Concrete Surface Course
Area Typical Sections "F" & "G" (Right half) = 2358.1 Sq. Yds.
From Extra Pavement Summary 708.4 Sq. Yds.
Total Area = 3066.5 Sq. Yds.
Volume = 3066.5 × 1 1/4 ÷ 36 = 106.5 Cu. Yds. Use 107 Cu. Yds.

Item B-35, 1 3/4" Asphaltic Concrete Leveling Course
Area Typical Sections "F" and "G" = 2358.1 Sq. Yds.
From Extra Pavement Summary = 658.4 Sq. Yds.
Total Area = 3016.5 Sq. Yds.
Volume = 3016.5 × 1 3/4 ÷ 36 = 146.7 Cu. Yds.
Extra Leveling Material to Correct Surface variations.
Same as Typical Sections "F" and "G" (Municipal) = 28.2
Total Volume = 174.9 Cu. Yds Use 175 Cu. Yds.

Item T-30, Bituminous Prime Coat
Area same as Surface Course = 3066.5 Sq. Yds.
Volume = 3066.5 × 0.10 = 306.7 Gal. Use 307 Gal.

Item I-117, Side Approaches, Mailbox Turnouts, and Berm Material
Length = 1982', Width = 3'-0", Average Depth = 2"
Volume = (1982 × 3 × 0.17) ÷ 27 = 37.3 Cu. Yds.
Add for Intersection 3-P (Sheet No. 9) = 5.7 Cu. Yds.
Total = 43.0 Cu. Yds.
Add 15% for Compaction = 43 × 1.15 = 49.5 Use 50 Cu. Yds.

Item E-1, Roadway Excavation (Estimated) = 50 Cu. Yds.

Item E-4, Borrow (Estimated) = 100 Cu. Yds.

Item E-8, Removal and Disposal of Existing Pavement (brick surface and concrete base)
Net length Typical Section "H" = 90'; Width = 22.42':
Area = 90 × 22.42 × 9 = 224.2 Sq. Yds. Use 225 Sq. Yds.

Item E-8, Removal and Disposal of Existing Bituminous Concrete Patches at Various Stations (includes 23 Sq. Yds from Summary "P") = 250 Sq. Yds.

FED. RD DIST NO.	STATE	PROJECT	FISCAL YEAR	
10	OHIO		1944	12 / 12

WILLIAMS COUNTY
SH 305 SEC. "BRYAN" (P.T.)
SH 306 SEC. "BRYAN," (P.T.)
SH 307 SEC. "BRYAN & "B" (P.)
NORTH UNION ST. TEMP U.S.6

GENERAL SUMMARY

ITEM	DESCRIPTION	QUANTITY	UNIT
E-1	Roadway Excavation (unclassified)	100	Cu. Yds.
E-4	Borrow (contractor to furnish)	200	Cu. Yds.
E-8	Removal and Disposal of Existing Bituminous Wearing Course	250	Sq. Yds.
E-8	Removal and Disposal of Existing Brick Wearing Course	550	Sq. Yds.
E-8	Removal and Disposal of Existing Concrete Ramps to Drives	16	Sq. Yds.
E-8	Removal and Disposal of Existing Concrete Pavement	11	Sq. Yds.
E-8	Removal and Disposal of Existing Pavement (brick surface, concrete base)	225	Sq. Yds.
I-8	Manhole Castings Adjusted to Grade	14	Each
I-8	Inlet Castings Adjusted to Grade	12	Each
I-8	Monument Boxes and Iron Pins Adjusted to Grade	6	Each
I-12	Type 2 Concrete Curb and Gutter	46	Lin. Ft.
I-117	Side Approaches, Mail Box Turnouts and Berm Material	96	Cu. Yds.
T-30	Bituminous Prime Coat, Section M-5.12 AE-3 including sand cover	3191	Gal.
T-35	Asphaltic Concrete Surface Course Type B or Type B Modified as per Special Provisions	1116	Cu. Yds.
B-35	Asphaltic Concrete Leveling Course	1043	Cu. Yds.
B-35	Asphaltic Concrete Base Course	38	Cu. Yds.
I-20	5" Insulation Course (coarse graded type)	225	Sq. Yds.

EXTRA PAVEMENT "P"

Sheet No.	Reference No. From	Reference No. To	E-8 Bituminous Surface Removal Sq. Yds. Municipal	E-8 Brick Surface Removal Sq. Yds. Municipal	E-8 Removal Concrete Ramps to Drives Sq. Yds. Municipal	T-30 Bituminous Prime Coat Sq. Yds. Municipal	T-35 Surface Course Sq. Yds. Municipal	B-35 Leveling Course 3/4" Thick Sq. Yds. Municipal	B-35 Leveling Course Cu. Yds. Municipal	B-35 Leveling Course 1 1/4" Thick Sq. Yds. Municipal
5	1-P	10-P			10	792.7	792.7	469.5		
6	1-P	16-P		200	6	516.2	516.2	258.5	8	
7	1-P	13-P		350		484.5	484.5	242.5	14	
8	1-P	9-P				215.1	215.1	108.2		
9	1-P	3-P				995	995			945
10	1-P		23			335.6	335.6			335.6
*	Various	Stations				250.0	250.0	175.0		
Totals			23	550	16	3589.1	3589.1	1253.7	22	1280.6

* Note:- During the construction of this Project it may be necessary to feather the Leveling and (or) Surface Course up into the Driveways or Side Approaches not listed in Extra Pavement Schedule (P). An estimated quantity of Material for this work is listed (Under Various Stations). This material shall be used only at locations indicated by the Engineer.

Sheet No.	Reference No. From	Reference No. To	E-8 Removal & Disposal Existing Conc. Pavement Sq. Yds. Municipal	I-8 Adjust Manhole Tops to Grade Each Municipal	I-8 Adjust Iron Pins & Mon. Boxes to Grade Each Municipal	I-8 Adjust Inlet Castings to Grade Each Municipal	I-12 Combination Curb and Gutter Type 2 Lin. Ft. Municipal
5	1-I	8-I		7	2		
6	1-I	12-I		5	2	5	
7	1-I	7-I		1	1	5	
9	1-I	4-I	11	1		2	46
8	1-I				1		
Totals			11	14	6	12	46