FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO	H. I. F.	1950

1/11

STARK COUNTY
STA-21-10.50

397

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

STA-21-10.50
STARK COUNTY
CITY OF
MASSILLON

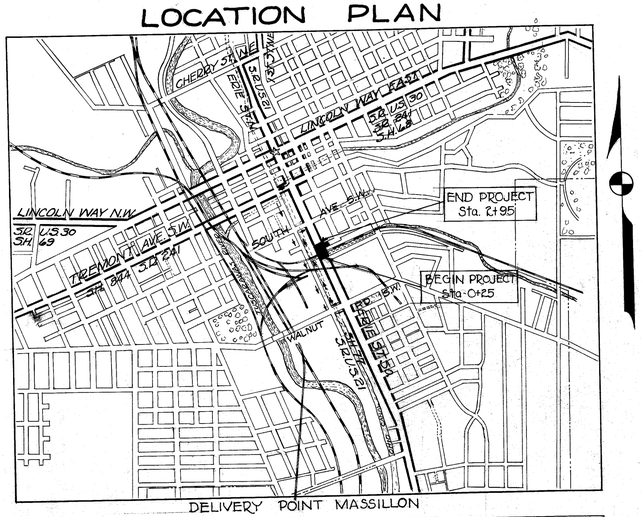
CONVENTIONAL SIGNS

CORPORATION LINE
PROPERTY LINE
CENTER LINE
STEAM RAILROAD
PROPOSED STORM SEWER

INDEX OF SHEETS

TITLE SHEET	1
TYPICAL SECTIONS	2
GENERAL SUMMARY & NOTES	3
GENERAL AREA & DETOUR MAP	4
LINE SHEETS	5 & 6
STORM SEWER DETAILS	7
CROSS SECTIONS	8 & 9
RETAINING WALL DETAILS	10
CENTER CURB & GUARD RAIL DETAIL	11

LOCATION PLAN



AVERAGE HAUL ¾ MILE
LOCATION OF PROJECT
STATE HIGHWAYS
TEMPORARY ROUTES

LINE DATA

BEGIN PROJECT	Sta.- 0+25
END PROJECT	Sta- 2+95
GROSS LENGTH	270 Lin.FT.
NO DEDUCTIONS	
NET LENGTH	270 Lin. Ft. or 0.051 Miles

SUPPLEMENTAL SPECIFICATIONS

NUMBER	DATE
31	6-13-49
S-303	12-20-46
M-110.23 Rev.	1-3-47

SCALES

PLAN	1"= 10'
PROFILE HORIZONTAL	1"= 10'
PROFILE VERTICAL	1"= 2'
CROSS SECTIONS	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.

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

I hereby approve these plans and declare that the making of this improvement will require the closing to traffic of the highway except as noted on sheet 3, and that detours will be provided as shown hereon.

Approved W. L. Turner
Date 3/27/1950 Division Deputy Director

Approved _____
Date _____ Chief Engineer Bureau of Maintenance

Approved [signature]
Date 3-23-50 Chief Engineer Bureau of Bridges & R.R. Crossings

Approved [signature]
Date 3-24-50 Chief Engineer Bureau of Location & Design

Approved [signature]
Date 3-24-50 Engr. Assist. Director & Chief Engineer

Approved [signature]
Date 3-24-50 Director of Highways

CONSTRUCTION BUREAU
OCT 14 1955
GROUND PHOTOLAB

STANDARD CONSTRUCTION DRAWINGS

STD. DRWG NO.	DATE	STD. DRWG. NO.	DATE
T.J. NO.1	2-7-50		
T.J. NO.2	2-7-50		
B-T-71 R	2-7-50		
T-1,2,3,4,&5	2-10-45		
T.J.NO.1 C.O.	2-7-50		
G-8.07	2-7-50		
B-T-50-70-71 E NO.1	10-1-47		
T.J.NO.3	2-7-50		
I-12	3-15-48		

RECOMMENDED FOR APPROVAL DATE
DIVISION ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

APPROVED DATE
DIVISION ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

P-295-ACC.No. 2543 Rev. 4-1-50.

FILE NO.	STARK COUNTY STA-21-10.50 SEC. MASSILLON (P.)
	DATE OF LETTING _____ 195_
	CONTRACT Nº

TITLE SHEET

FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO	H.I.F.	1950

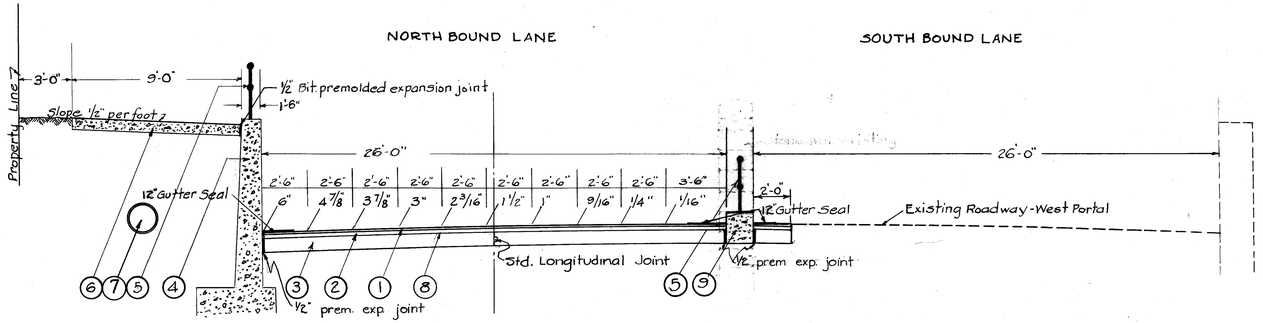
2-11

STARK COUNTY
S.H. 77 STA 21-10.50 LON (PT.)

TYPICAL SECTION

TYPE T-35 ON B-71

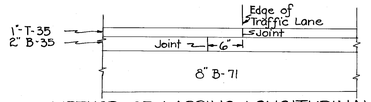
SCALE 1/4" = 1'-0"



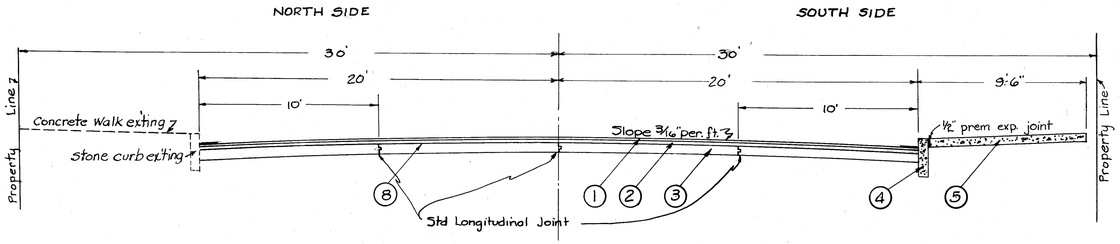
① ITEM T-35 1" Asphaltic Concrete Surface Course (Type C)
② ITEM B-35 2" Asphaltic Concrete Leveling Course
③ ITEM B-71 8" Reinf. Portland Cement Concrete Base Course
④ Concrete Retaining Wall
⑤ ITEM S-14 Pipe Railing 2"
⑥ ITEM I-13 6" Concrete Sidewalk
⑦ ITEM I-2 18" Storm Sewer
⑧ ITEM T-30 Bituminous Tack Coat Sec. M-5.5 MS-2 or SS-1
⑨ ITEM I-12 18"x21" Concrete Curb See detail Sheet 11

Note:
See sheet 8 for Roadway elevations

ERIE ST. S.
STA 0+25 TO STA 2+95



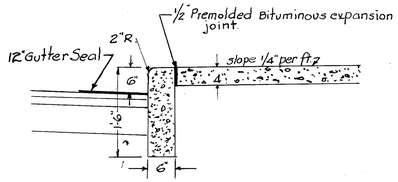
METHOD OF LAPPING LONGITUDINAL JOINTS



① ITEM T-35 1" Asphaltic Concrete Surface Course Type C
② ITEM B-35 2" Asphaltic Concrete Leveling Course
③ ITEM B-71 8" Reinf. Portland Cement Concrete Base Course
④ ITEM I-12 6"x18" Concrete Curb
⑤ ITEM I-13 4" Concrete Sidewalk
⑧ ITEM T-30 Bituminous Tack Coat Sec. M-5.5 MS-2 or SS-1

Note:
See sheet 9 for Roadway elevations

PENN AVE. S.E.
STA 0+00 TO STA 0+60



CONCRETE CURB DETAIL
Scale: 3/4" = 1'

P-295-A&C. No. 259

TYPICAL SECTION

FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO	H.I.F.	1950

3
11

STARK COUNTY
STA-21-10.50

GENERAL NOTES

TRAFFIC NOTE:

The highway, between the centerline of Wetmore Ave. S.E. and the north line of Penn Ave. S.E., shall be closed to traffic when ordered by the Engineer.

Through traffic shall be detoured as indicated on sheet No.4.

The contractor shall arrange his operations so that traffic inconvenience will be held to a minimum and access to abutting properties provided at all times. Methods of work procedure and traffic maintenance shall be submitted to the Engineer for approval.

Access to the east Pennsylvania R.R. station on the south side of tracks shall be maintained to the maximum time that conditions permit.

The item of Maintaining Traffic at the points indicated above shall include furnishing lights, signs, barricades and watchmen necessary to secure the flow of traffic twenty-four (24) hours daily.

UTILITY ADJUSTMENT:

Removal and replacement, as necessary, of the structures or facilities of all Public Utilities, including Water, Gas and Power Lines and other Public or City Utilities occupying the Highway or Streets and coordinating such work with construction activities so as to avoid delays to the Contractor shall be performed by the Utilities Companies and the City of Massillon in conformance with the specifications of the State of Ohio.

FINISHING CONCRETE BASE:

Hand finishing will be permitted as per Sec. B-71.211 of the General Specifications at intersections and other points where it is not deemed practical by the Engineer to use a finishing machine.

EXPANSION JOINTS:

No Expansion or Contraction joints will be permitted in the B-71 base course.

DISPOSAL OF WASTE MATERIAL:

Excavation not used on site is to be hauled three-fourths (¾) miles to Stadium Park for disposal.

Stone disposition is to be made on Tremont Ave. S.E. opposite Sippo Park, a hauling distance of three-fourths (¾) miles.

Concrete disposition is to be made to Stadium Park, a hauling distance of three-fourths (¾) miles.

FIELD HOUSE:

The contractor shall provide a suitable Field Office for the exclusive use of Engineers and Inspectors assigned to this project. This office shall have a minimum of 150 sq.ft. of floor space and so arranged, equipped and lighted that the State Employees will have a convenient place for making the necessary recordsetc. and have a safe place for storage of equipment, plans and necessary supplies. The contractor shall have a telephone installed and maintained during construction of this project.

If the project is in progress during cold weather, the office shall be heated to a temperature of at least 70° farenheit. See Section 5-0.01 (b) of the Construction and Material Specifications.

CASTINGS AND GRATES

The castings and grates on all catch basins and manholes abandoned shall be carefully removed by the Contractor and become the property of the City of Massillon, unless needed for new structures as called for on the plans.

GENERAL SUMMARY

ITEM NO	TOTAL QUANITITY	UNIT	DESCRIPTION
			ROADWAY
E-8	1056	SQ.yds.	Removal & Disposal of Existing Pavement
E-8	316	Lin. Ft.	Removal & Disposal of Existing curb
E-8	77	Sq. Yds.	Removal & Disposal of Existing wearing Course
E-8	2687.	sq. ft.	Removal & Disposal of Existing Sidewalk
I-13	122.	sq. ft.	4" Concrete Sidewalk
I-13	2012.	sq. ft.	6" Concrete Sidewalk
E-1	746	cu.yds.	Roadway Excavation
E-2	192.	cu.yds.	Excavation for Structures
			RETAINING WALLS
S-22	64.0	cu.yds.	Removal of Portions of Existing Stone Wall
S-1	39.0	cu.yds.	Class "E" Concrete for Structures-Footings
S-1	57.2	cu.yds.	Class "E" Concrete for Structures- Walls
S-1	3.1	cu.yds.	Class "E" Concrete for Structures - Posts
S-14	242	lin. ft.	2" Pipe Railing as per plan
S-29	23	cu.yds	Porous Backfill
S-4	2619	lbs.	Reinforcing Steel
S-9	27	sq. ft.	1" Premolded Expansion Joint Filler
S-303	39	Lin. ft.	Premolded Sealing Strip
			DRAINAGE
I-2	154	lin.ft.	12" pipe for Storm Sewers under pavement
I-2	21	lin.ft.	15" Pipe for Storm Sewers- under pavement
I-2	201	lin.ft.	18" Pipe for Storm Sewers
I-16	2	each	Manholes Abandoned
I-16	3	each	Catch Basins Abandoned
I-8	4	each	Special Catch Basin as per Plan (Using salvaged castings)
I-8	2	each	Special Manholes as per plan (Using salvaged castings)
I-8	1	each	Manholes Adjusted to Grade
I-5	1	each	12" Pipe Special for Storm Sewer under pavement
			PAVEMENT
B-35	63.	cu.yds	Asphaltic Concrete leveling Course (70-80)
B-71	1077	sq.yds.	8" Reinforced Portland Cement Concrete Base Course
T-35	32	cu. yds.	Asphaltic Concrete Surface Course TYPE C (70-80)
T-30	116	Gal	Bituminous Tack Coat Sec M 3.5 MS-2 or 5.5-1
I-12	110.	lin.ft.	6"x 18" Concrete Curb - as per plan
I-12	122	lin. ft.	18"x 21" concrete Curb - as per plan
			RETAINING WALLS (Con't)
S-25	4	each	Single Section Adjustable Unit Traffic Signals as per plan
S-25	100.	lin. ft.	2" Galvanized conduit pipe
S-25	2	each	Floodlights as per plan
S-23	12	lin. ft.	Dowel Holes

NEW CONC. CURB			
SHEET	ITEM NO.	6"X 18" lin. ft.	18"X 21" Lin. Ft.
5	I-12	51.0	99.5
6	I-12	59.0	22.5
TOTAL		110.0	122.0

RETAINING WALLS

SHEET	ITEM NO.	CY. EXIST. STONE WALL REMOVED	lin. ft 2" Steel Railing	CONC. POSTS Cu.yd.	CONC. RETAINING WALLS FOOTER Cu.yd.	STEM- Cu.yd.	POROUS Back fill Cu.yd.	Reinforcing Steel lbs.	Excavation for Structure Cu.yd.
5	S-22	47.0							
6	S-22	16.7							
5	S-14		220'-3¾"						
6	S-14		21'-7¼"						
5	S-1			2.24					172.8
6	S-1			.79					19.6
10	S-1				38.99	57.14			
10	S-29						23		
10	S-4							2012	
11	S-4							582	
TOTAL		63.7	241'-11"	3.03	38.99	57.14	23	2594	192.4

ELECTRICAL EQUIPMENT				
SHEET	ITEM NO.	lin.ft. Galvanized 2" Conduit	No. Single Section adjustable unit Traffic Signals	Floodlights each
11	S-25	100	4	2

Removal & Disposal of Existing Sidewalk, Curb & Pavement.
Removal of Existing Surface Course
Roadway Excavations

SHEET	ITEM NO.	CONC. WALK 4" Sq.ft.	BRICK WALK Sq. ft.	CONC. CURB Lin.ft.	STONE CURB Lin. ft.	PAVEMENT S.Y.	SURFACE COURSE S.Y.	ROADWAY EXC. C.Y.
5	E-8	2015		233.0		590.1		
8 9	E-1							681 65
6	E-8	231	441	43.0	40	466.0	76.4	
TOTAL		2246	441	276.0	40	1056.1	76.4	746

New Concrete Sidewalks			
SHEET	ITEM NO.	CONC. WALK 4" Sq.ft.	CONC. WALK 6" Sq.ft.
6	I-13	422	200
5	I-13		1812
TOTAL		422	2012

PAVEMENT

SHEET	ITEM NO.	2" ASPHALTIC CONC. LEVELING COURSE Cu. Yds.	8" Reinforced Portland Cement Concrete Base Course Sq. Yds.	1" Asphaltic Concrete Surface Course Type C (70-80) Cu. Yds.	Bituminous Tack Coat Gals.
5	B-35	33.77			
6	B-35	29.37			
5	B-71		607.9		
6	B-71		468.9		
5	T-35			16.89	
6	T-35			14.69	
5	T-30				60.8
6	T-30				55
TOTAL		63.14	1076.8	31.58	115.8

DRAINAGE

SHEET	ITEM NO	STORM SEWER PIPE 12" *	15" *	18"	MANHOLES ABANDONED each	CONSTRUCTED MANHOLES each	CONSTRUCTED CATCH BASIN each	12" PIPE SPECIAL each	CASTING ADJUSTED each	CATCH BASINS ABANDONED each
5	I-2	59		170						
6	I-2	95	21	31						
5	I-16				1					1
6	I-16				1					2
5	I-8						2			
6	I-8					2	2		1	
5	I-5							1		
TOTAL		154	21	201	2	2	4	1	1	3

* under approaches

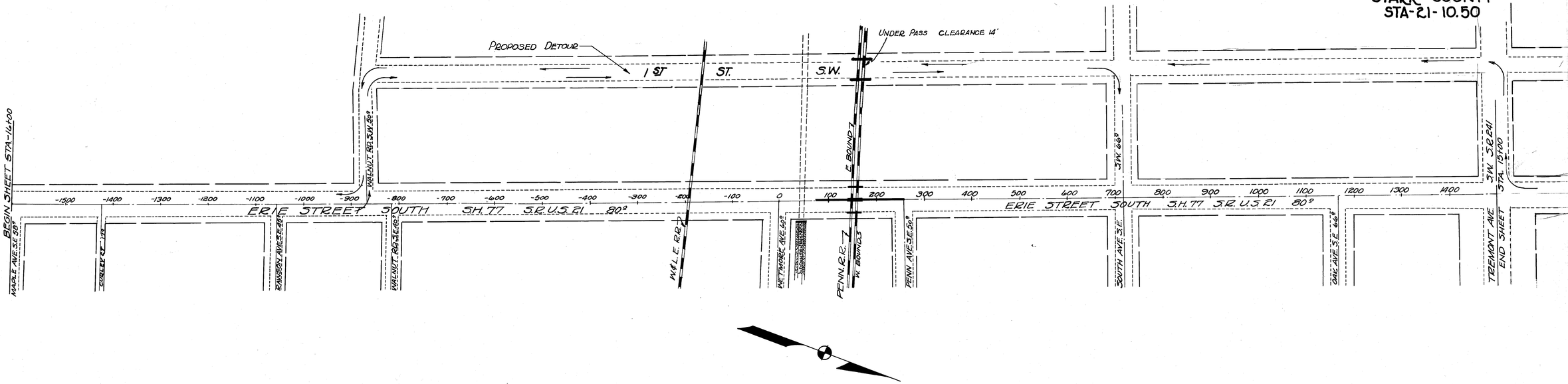
P-295-ACC. No. 2545

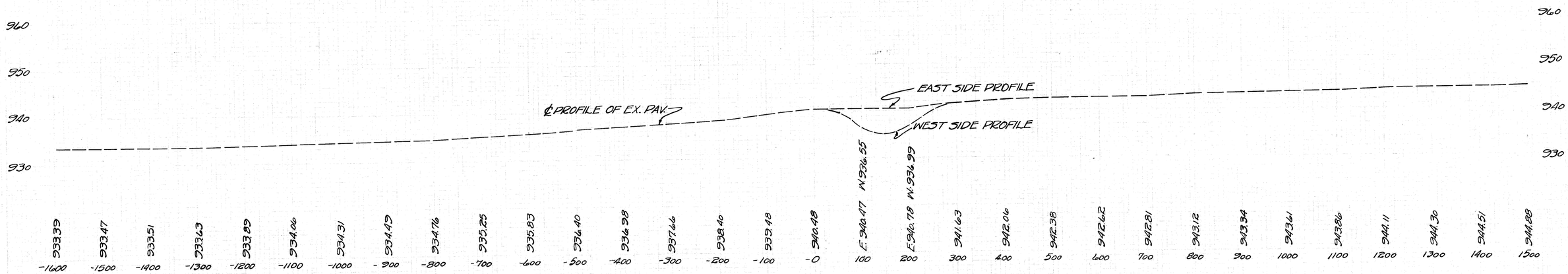
GENERAL SUMMARY

FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO	H.I.F.	1950

4
11

STARK COUNTY
STA-21-10.50





P-295-ACC. NO. - 2546

STA-16+00 TO STA. 15+00

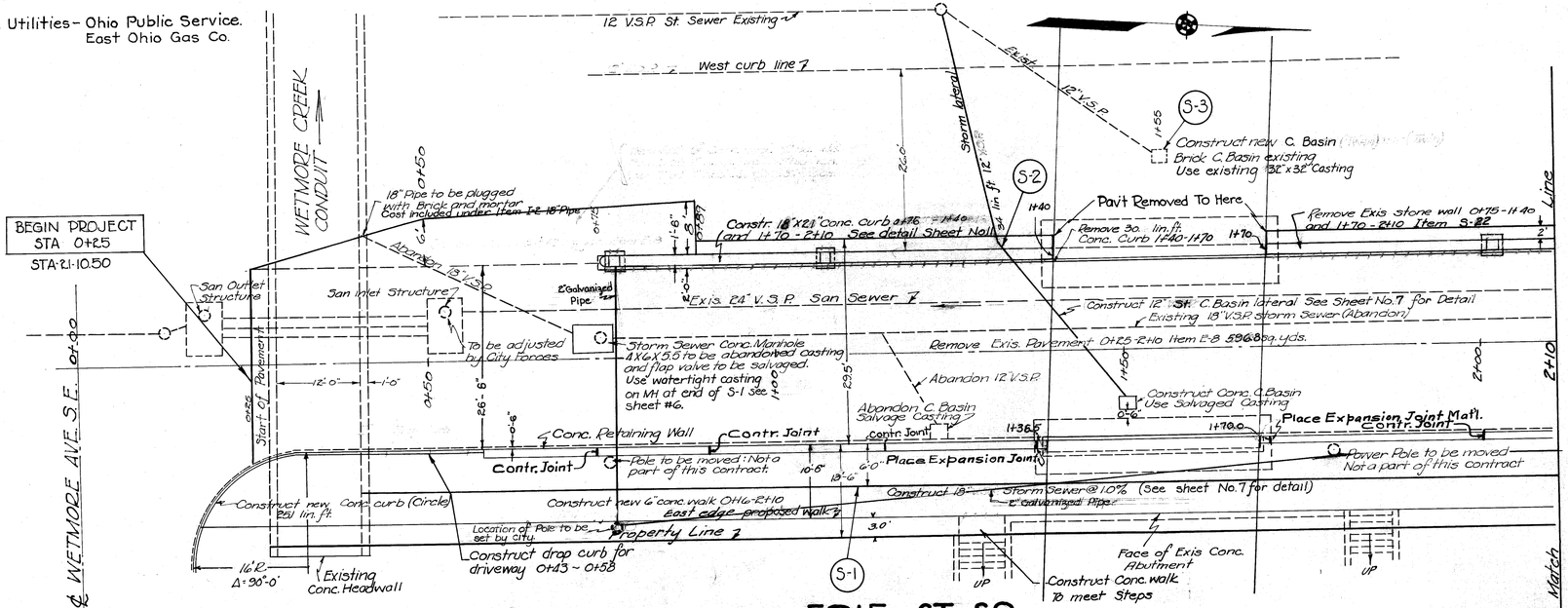
Rev. 4-4-50

FED RD DIV.	STATE	PROJECT	FISCAL YEAR	5
2	OHIO	H.I.F.	1950	11

STARK COUNTY
STA - 21 - 10.50

NOTE:
ALL CASTING THAT ARE SALVAGED TO BE REUSED ON NEW WORK.
NO NEW CASTINGS NEEDED.

Public Utilities - Ohio Public Service.
East Ohio Gas Co.



B.M. ⊡ Top of Hyd. ~ S.E. Corner of Wetmore Ave. S.E. Erie So. ~ Elev. 942.34

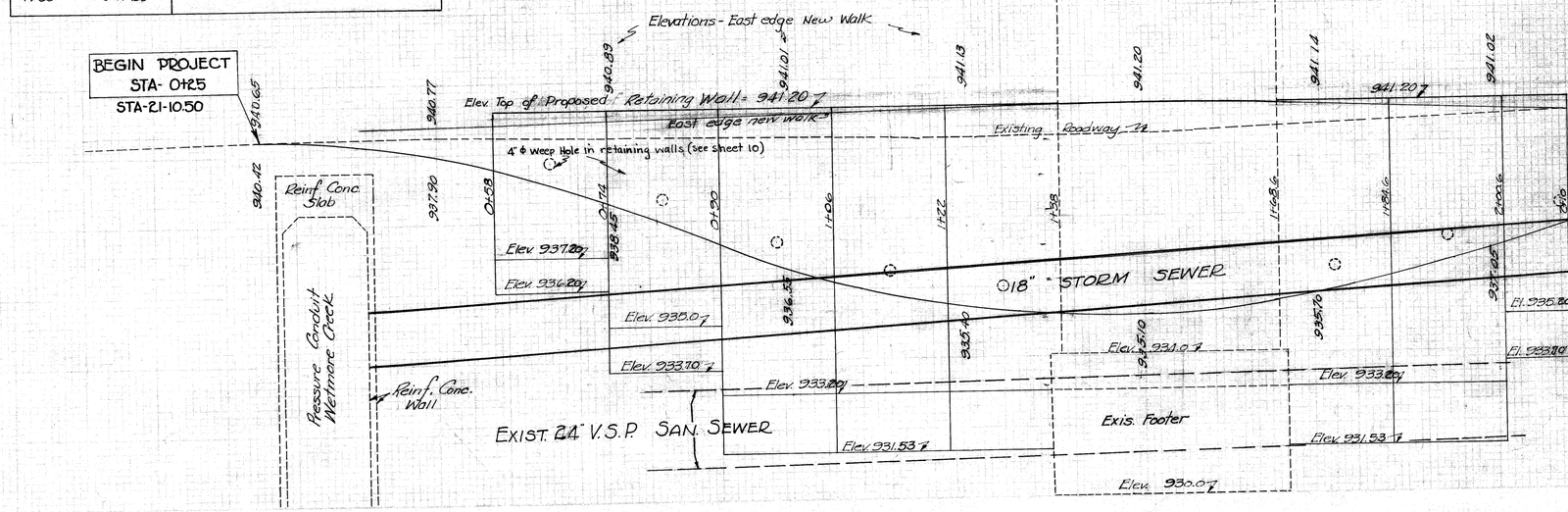
B.M. ⊡ Top of Hyd. ~ opposite Penn Ave. S.E. on Erie St. So ~ Elev. 944.32

NOTE:
CONTRACTOR TO USE CARE IN EXCAVATING OVER 24" V.S.P. SAN. SEWER BETWEEN STA. 1+00 AND 2+00.

Bottom of Steel Girders Penn R.R. Bridge Elev. 950.52

Exis. Conc. Abutment East side - North Lane

Sidewalk Elevations Erie St. So. East edge of walk.			
0+25	~ 940.65	1+75	~ 941.14
0+50	~ 940.77	2+00	~ 941.02
0+75	~ 940.89	2+25	~ 940.88
1+00	~ 941.01	2+33	~ 940.76 B. Edge walk on Penn
1+25	~ 941.13	2+38 ±	~ 940.60 on Curb Rad.
1+50	~ 941.26		



ITEM I-2 Storm Sewer ITEM I-8 Catch Basins Constructed							
Mark	STATION		STORM SEWERS				
	From	To	Side	18"	12"*	12" 30° CURVES*	Catch Basins
S-1	0+40	2+10	R	170			1
S-2	1+50	-	R&L		59	1	1
S-3		1+55	L				1
		Total		170	59	1	2

*under approaches

ITEM I-13 Concrete Sidewalk ITEM E-8 Removal and Disposal of Existing sidewalk						
Station		Side	Length	Width	Item I-13 Concrete walk	E-8 Sidewalk Removed
From	To				6" - sq. ft	sq. ft
Expans. Jt.						
0+16	0+58	R	42	10	420.0	
0+58	1+25	R	67	9.0	603.0	
1+25	1+33	R	8	12.0	96.0	
1+33	2+10	R	77	9.0	693.0	
0+16	1+38	R	122	10.5		1281.0
1+38	1+69	R	31	9.0		279.0
1+69	2+10	R	41	10.5		431.0
1+25	1+33	R	8	3.0		24.0
			TOTAL		1812.0	2015.0

ITEM I-12 Concrete Curb ITEM E-8 Removal and Disposal of Existing Concrete Curb					
Station		Side	Length	Item I-12 Conc. Curb 6"x18" Lin. Ft.	Item E-8 Removal & Disposal of Existing Curb Lin. Ft.
From	To				
0+16 Rad.	0+32	R	25	25.0	
0+32	0+58	R	26	26.0	
0+16 Rad.	0+32	R	25		25.0
0+32	2+10	R			178.0
1+40	1+70	L	30		30.0
	Total			51.0	233.0

ITEM E-8 Removal and Disposal of Existing Pavement					
Station		Side	Width	Length	E-8 Sq. Yds.
From	To				
0+25	0+50	R&L	29	25	80.6
0+50	0+89	R&L	33.5	39	145.2
0+89	2+10	R&L	29.0	121	389.9
C. Basin	Lateral	L	4	25	11.1
		Total			626.8
Deduct for Stone wall + PP. Pier					36.7
		Total			590.1

ITEM I-16 Manholes abandoned ITEM I-16 Catch Basins abandoned				
Station	Side	Manholes	Catch Basins	Remarks
0+75	L	1		Casting & Valves Salvaged
1+23	R		1	Casting Salvaged
Total		1	1	

ITEM E-2 Excavation Structures ITEM S-1 Concrete Retaining Wall " S-1 Concrete Curb-posts & railing									
Station		Side	E-2 C.Y.	S-1 Class E		I-12 Conc. Curb 18x21 Lin. Ft.	S-1 Conc. Posts C.Y.	S-14 Railing lin. ft.
From	To			Footer C.Y.	Wall C.Y.			
0+58	0+74	R	10	2.66	3.09			0+58 to 1+38
0+74	0+90	R	17	3.65	5.54			80.0
0+90	1+38	R	80	15.63	23.70			
1+68.6	2+00.6	R	53	10.42	15.80			41-2¾ 1+68.6 to 2+10
2+00.6	2+10	R	11	2.14	3.26			
0+76	1+40	L	12*			61	1.52	60-3"
1+70	2+10	L	06*			38.5	.72	38-8"
Total			172.8	34.50	51.39	99.5	2.24	220-3¾"

*Posts

ITEM B-71 Reinforced Portland Cement Concrete Base ITEM B-35 2" Asphaltic Concrete Leveling Course ITEM T-35 1" Asphaltic Concrete Surface Course								
Station		Side	width	length	B-71 Sq. Yds	B-35 C.Y.	T-35 C.Y.	T-30 Gal.
From	To							
0+25	0+50	R+L	29.5	25	82.9	4.56	2.28	
0+50	0+89	R+L	34.0	39	147.3	8.18	4.09	
0+89	2+10	R+L	29.5	121	396.6	22.03	11.02	
C. Basin	lateral	L	4	25	11.1	0.62	0.31	
		TOTAL			637.9	35.39	17.70	
Deduct for 18"x18" curb & Bridge Pier					29.1	1.62	.81	
		TOTAL			608.8	33.77	16.89	60.8

608 x 0.1 = 60.8

ITEM S-22 Removal of Exist. Stone Wall						
Station		Side	Length	Height	width	C.Y.
From	To					
0+75	1+40	L	65	Ave 2.0	2.0	29.0
1+70	2+10	L	40	Ave 2.0	2.0	18.0
TOTAL						47.0

P-295-ACC. No. 2547
ERIE ST. STA 0+00 to STA 2+10

FED'L RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO	H.I.F.	1950

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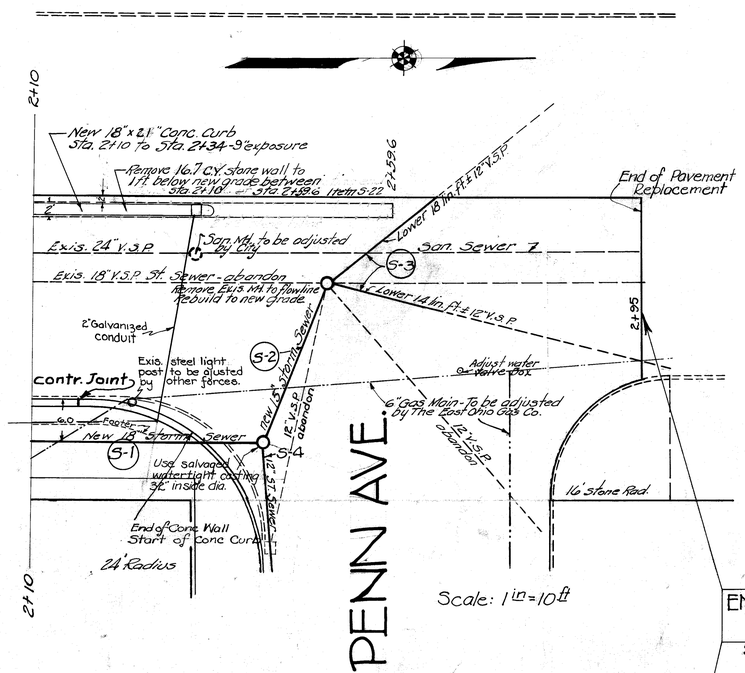
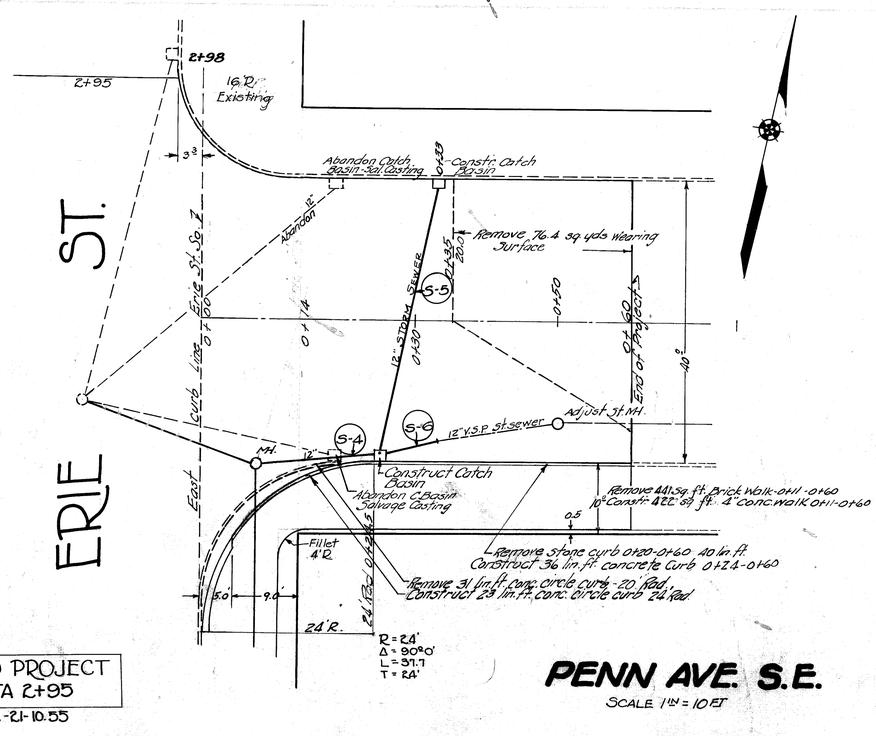
11

STARK COUNTY
STA-21-10.50





END PROJECT
STA 2+95
STA-21-10.55

ITEM I-2 Storm Sewers
ITEM I-8 Manholes and Catch Basins Constructed

Mark	Station From	Station To	Side	I-2 15" lin. ft.	I-2 * 18" lin. ft.	I-2 * 21" lin. ft.	I-8 Manholes No.	I-8 Catch Basins No.
S-1	2+10	2+48	R	31			1	
S-2	2+48	2+51	R			21	1	
S-3						34		
S-4						15		1
S-5						38		1
S-6						8		
		Total		31	21	95	2	2

* under approaches

ITEM I-13 Concrete Sidewalk
ITEM E-8 Removal and Disposal of Existing Walk

Station From	Station To	Side	I-13 Length	I-13 width	I-13 6" sq. ft	I-13 4" sq. ft	E-8 length	E-8 width	E-8 Conc. sq. ft	E-8 Brick sq. ft
2+10	2+32	R	22	9.5	200		22	10.5	231	
			PENN AVE.							
0+11	0+60	R	49	9		422	49	9		441
TOTAL					200	422			231	441

ITEM E-8 - Removal of Existing Surface Course
ITEM E-8 - Removal and Disposal of Existing Pavement
ITEM E-8 - Removal and Disposal of Existing Curb

Station From	Station To	E-8 Pavement Side	length	width	sq. yds	E-8 Curb Removal Side	Conc. lin. ft	Stone lin. ft	E-8 Surface Course length	width	Sq. yds.
2+10	2+59.6	R+L	49.6	27	149	R	27				
2+59.6	2+95	R+L	35.4	29	114.0						
			PENN AVE.								
0+00	0+35	R+L	35	40	155.6						
0+35	0+60	R	25	12.5	34.8				25	27.5	76.4
0+00	0+16	L	Radius-16'		3.0						
0+00	0+20	S. Radius	-20'		9.6	R	16				
0+20	0+60					R		40			
TOTAL					466.0		43	40			76.4

ITEM B-71 - 8" Reinforced Portland Cement Concrete Base
ITEM B-35 2" Asphaltic Concrete Leveling Course
ITEM T-35 1" Asphaltic Concrete Surface Course.

Station From	Station To	Side	width	length	B-71 Sq. yds.	B-35 C.Y.	T-35 C.Y.	
2+10	2+95	R+L	28	85	264.4	14.7	7.35	
			PENN AVE.					
0+00.5	0+35	R+L	40	34.5	153.3	8.5	4.25	
0+35	0+60	R	12.5	25	34.7	1.93	0.97	T-30
16' Radius		L			2.8			
24'	"	R			13.7			545.3 54.5
0+35	0+60		27.5	25		4.24	2.12	
TOTAL					468.9	29.37	14.69	55

ITEM I-12 Concrete Curb

Station From	Station To	Side 6"x18"	length lin. feet
	PENN AVE.		
24' Radius		R	23
0+24	0+60	R	36
TOTAL			59

ITEM E-2 Excavation Structures
ITEM S-1 Concrete Retaining Wall
ITEM S-1 Concrete Curb, Posts and Railing

Station From	Station To	Side	E-2 C.Y.	S-1 Class E Footer C.Y.	S-1 Class E Wall C.Y.	I-16 Conc. 18"x8" Curb L.F.	S-1 Conc. Posts C.Y.	S-1 Railing lin. ft.
2+10	2+16.6	R	8.0	1.50	2.28			
2+16.6	2+34.6	R	11.0	2.99	3.47			
2+10	2+34	L	0.6*			22.5	0.79	21'-7⅞"
TOTAL			19.6	4.49	5.75	22.5	0.79	21'-7⅞"

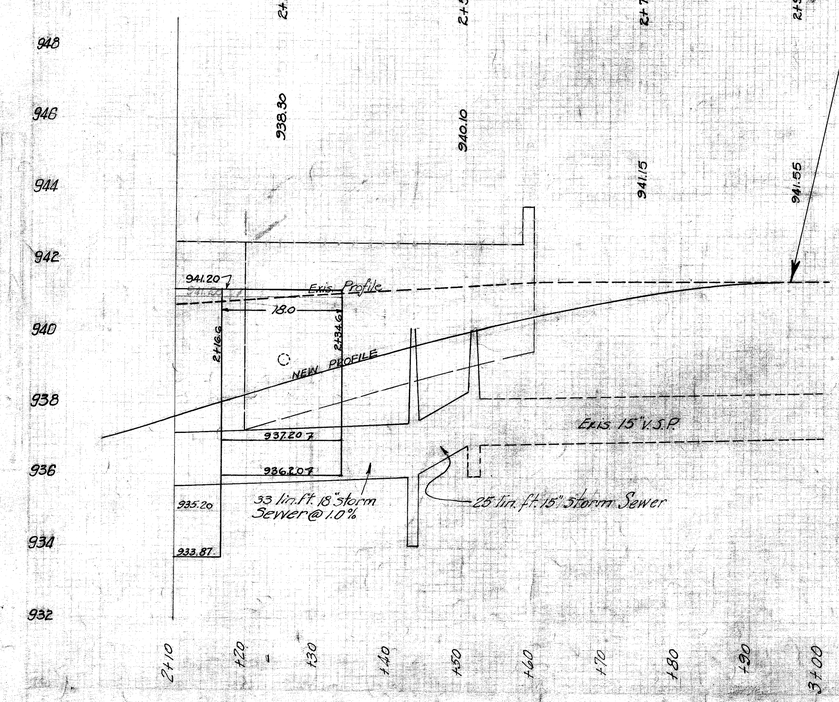
* Posts

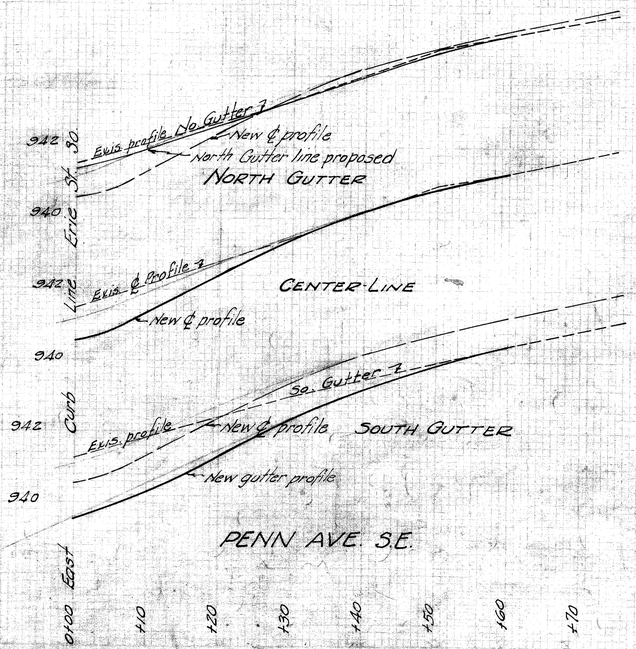
ITEM S-22 Removal of Exis Stone Wall

Station From	Station To	Side	S-22 C.Y.
2+10	2+59.6	L	16.7
TOTAL			16.7

ITEM I-8 Castings adjusted
ITEM I-16 Manholes abandoned
ITEM I-16 Catch Basins abandoned

Station	Side	I-16 Manholes	I-16 C.Basin	I-8 Castings adj.
2+51.6	L	1 ea.		
PENN AVE.				
0+20	L		1 ea	
0+20	R		1 ea	
0+50	R			1 ea
TOTAL		1	2	1





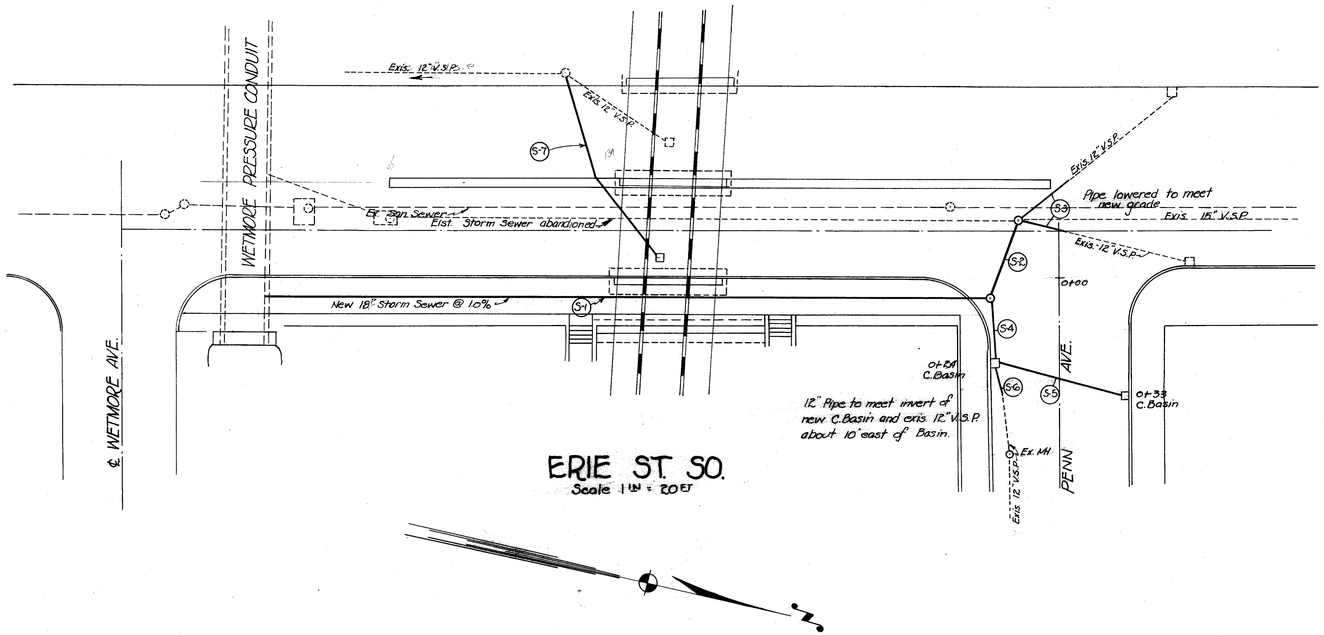
P-295-ACC.NO. 2548

ERIE ST. STA 2+10 - STA 2+95 PENN AVE. STA 0+00 - 0+60

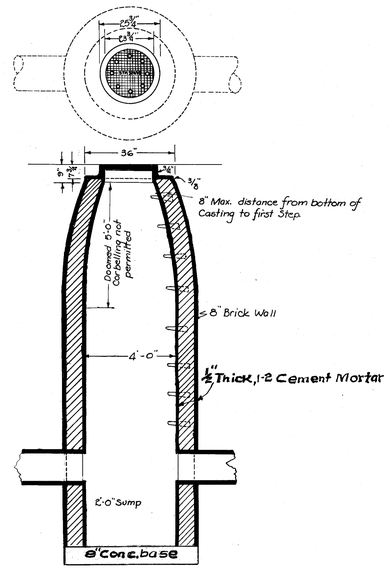
FED RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO	H.I.F.	1950

7
11

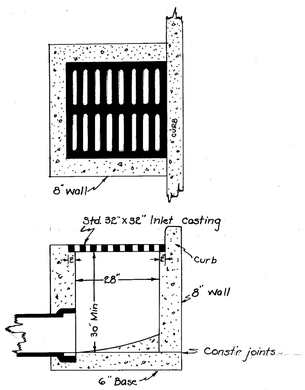
STARK COUNTY
STA-21- 10.50



ERIE ST. SO.
Scale 1" = 20'

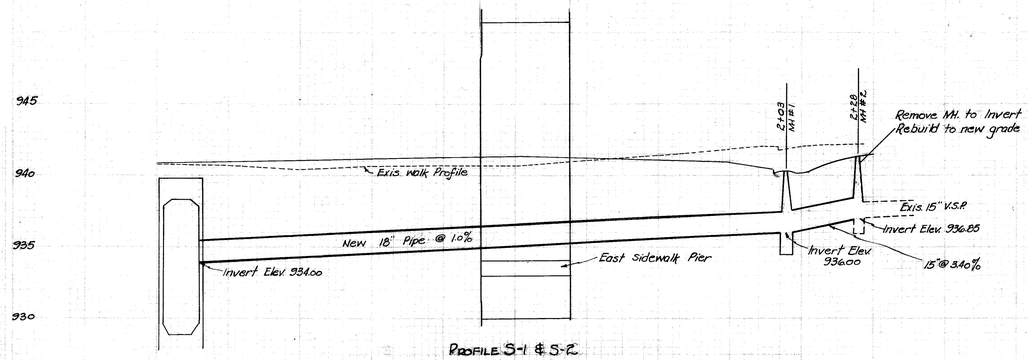


STANDARD MANHOLE

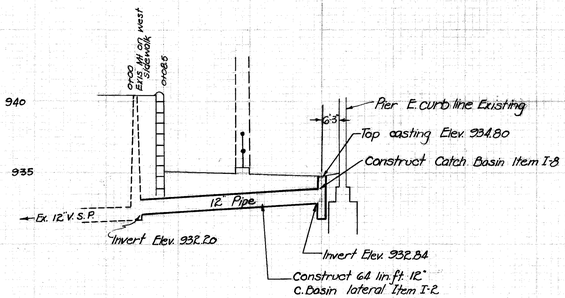


STANDARD CATCH BASIN

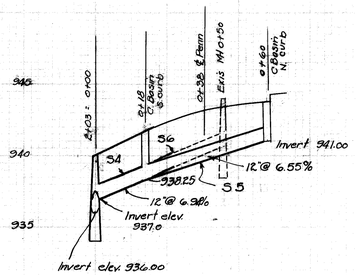
CITY OF MASSILLON



PROFILE S-1 & S-2
Scale 1"=25' Hor
1"=5' Ver



PROFILE S-7
Scale 1"=25' Hor
1"=5' Ver



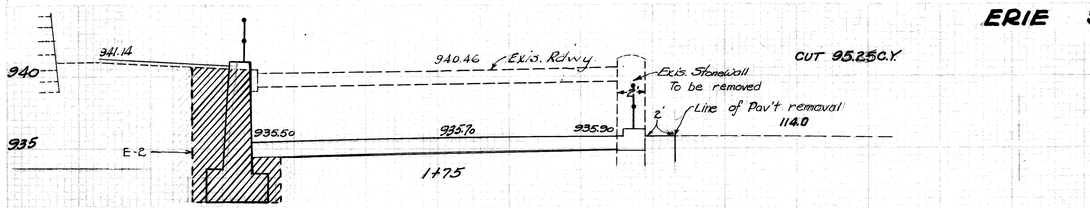
PROFILE S4, S5 & S6

P-295-ACC. NO. 2549
DETAIL OF STORM SEWERS

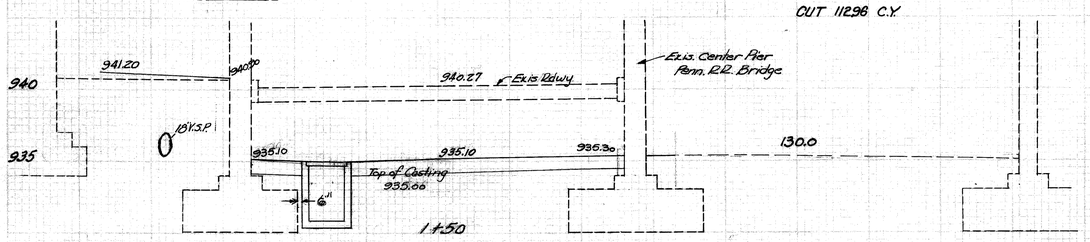
ERIE ST. SO. – Sections

FED-RD. DIV.	STATE	PROJECT	FISCAL YEAR	8 / 11
2	OHIO	H.I.F.	1950	

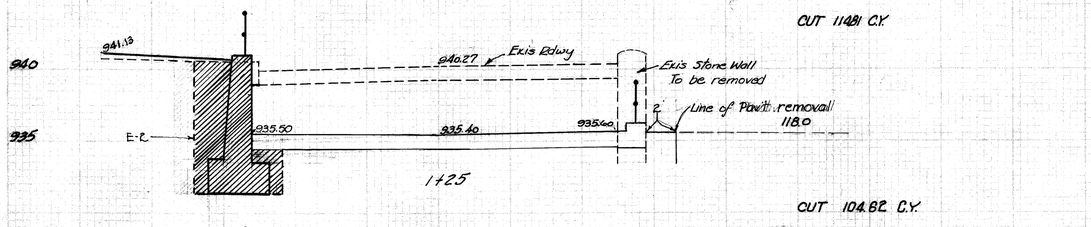
STARK COUNTY
STA - 21 - 10.50



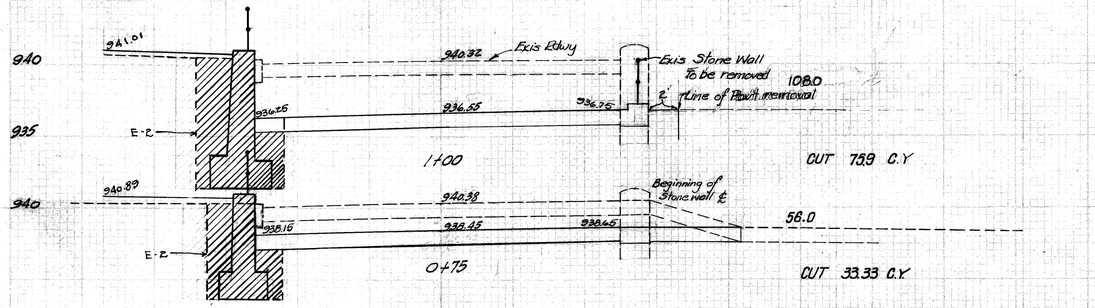
CUT 95.25 C.Y.



CUT 114.81 C.Y.



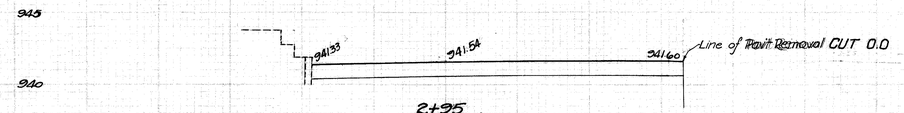
CUT 104.82 C.Y.



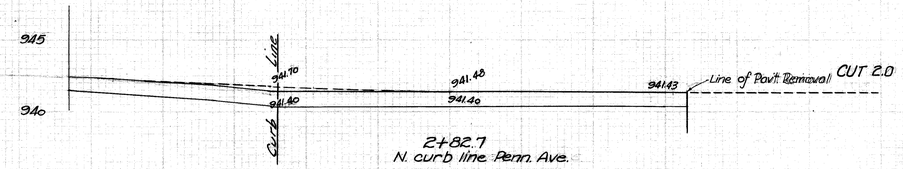
CUT 7.59 C.Y.

CUT 33.33 C.Y.

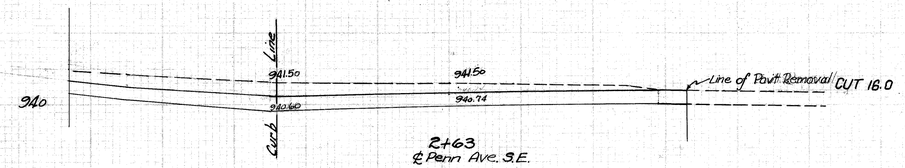
CUT 7.5 C.Y.



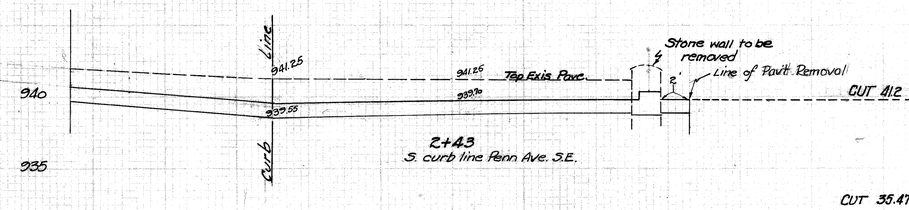
CUT 0.47 C.Y.



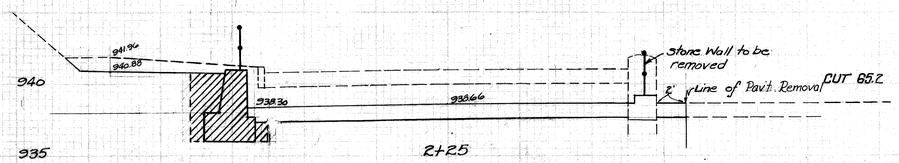
CUT 6.57 C.Y.



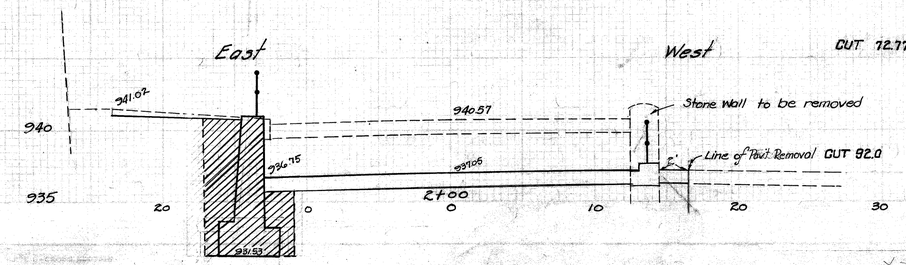
CUT 21.19 C.Y.



CUT 35.47 C.Y.



CUT 12.77 C.Y.



Erie St South Excavation Summary		
0+25	- 0+50	7.50 C.Yds.
0+50	- 0+75	33.33 "
0+75	- 1+00	75.90 "
1+00	- 1+25	104.82 "
1+25	- 1+50	114.81 "
1+50	- 1+75	112.98 "
1+75	- 2+00	95.25 "
2+00	- 2+25	72.77 "
2+25	- 2+43	35.47 "
2+43	- 2+63.2	21.19 "
2+63.2	- 2+82.7	6.57 "
2+82.7	- 2+95.3	0.47 "
		680.84 C.yds.

P-295-ACC.NO. 2550

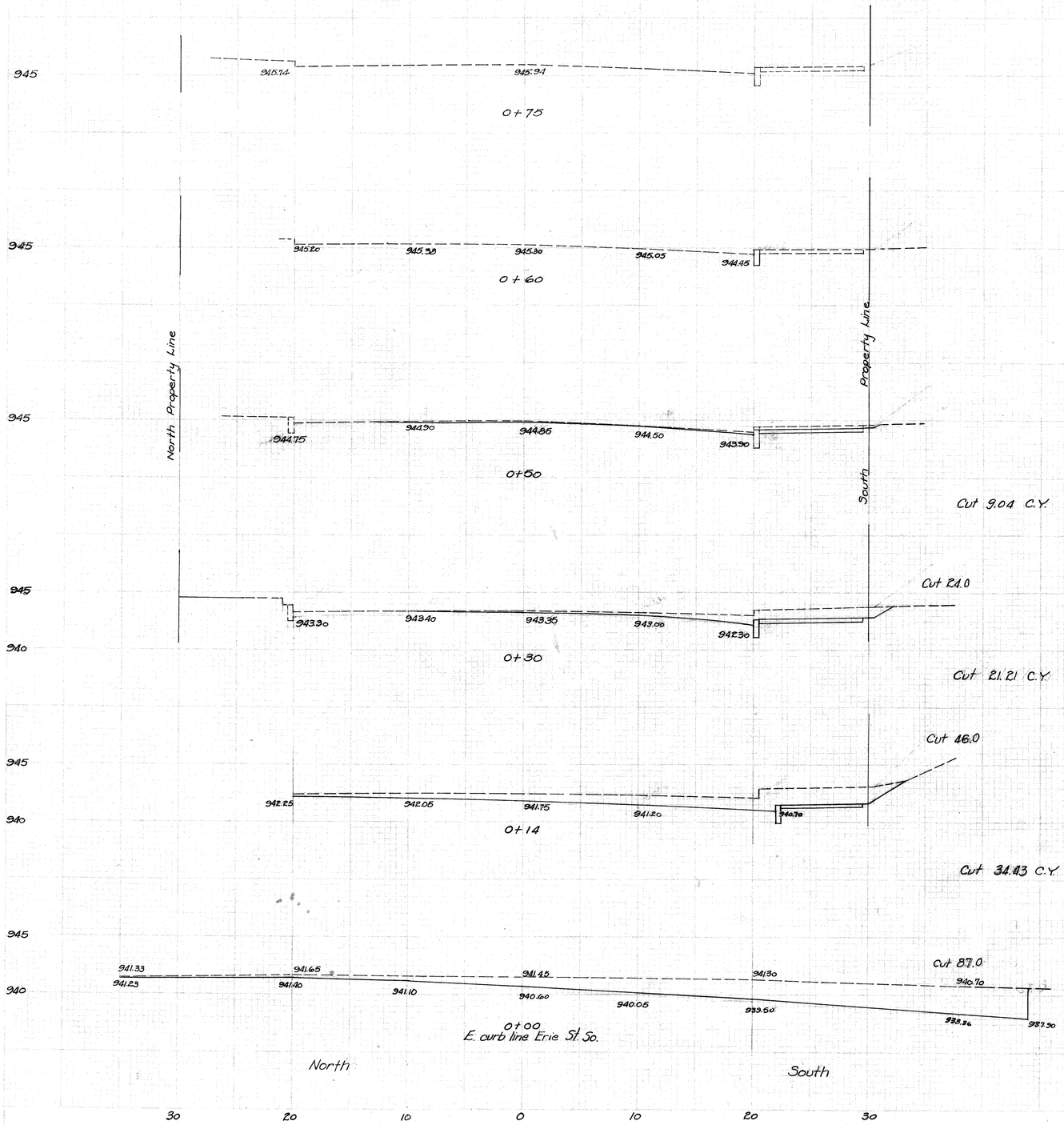
X-SECTIONS ERIE ST.

PENN AVE. Sections

FED.RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OH10	H.I.F	1950

9
11

STARK COUNTY
STA-21 - 10.50



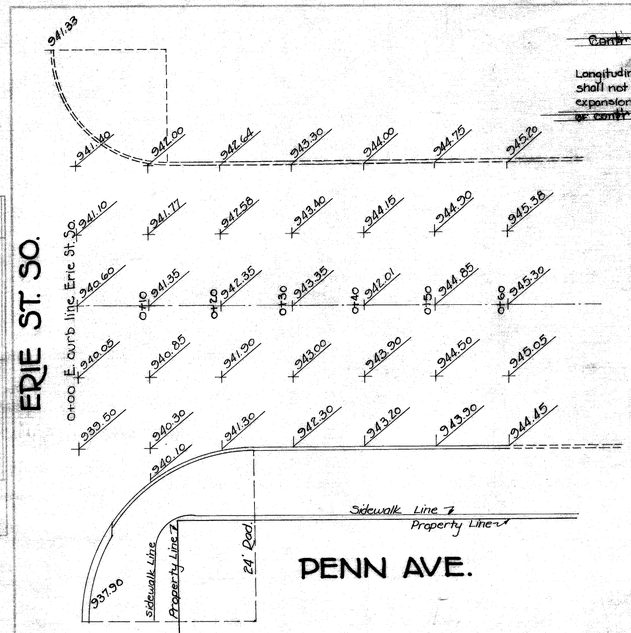
PENN AVE.
EXCAVATION SUMMARY

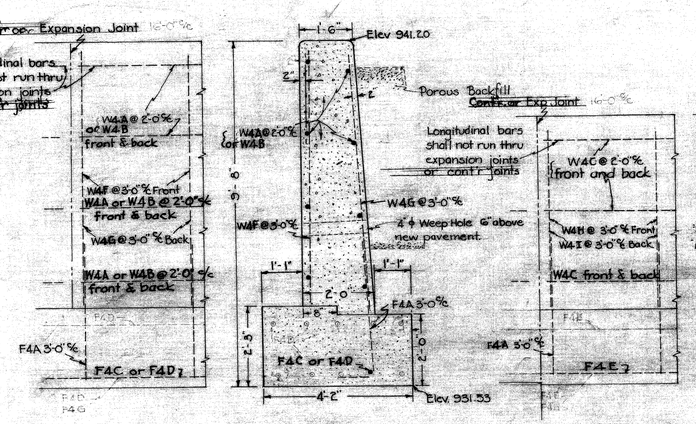
0+00 ~ 0+14	34.43	CU YDS.
0+14 ~ 0+30	21.21	CU. YDS.
0+30 ~ 0+50	9.04	CU. YDS.
	64.68	CU. YDS.

P-295-ACC. NO. 2551
X-SECTIONS PENN AVE.

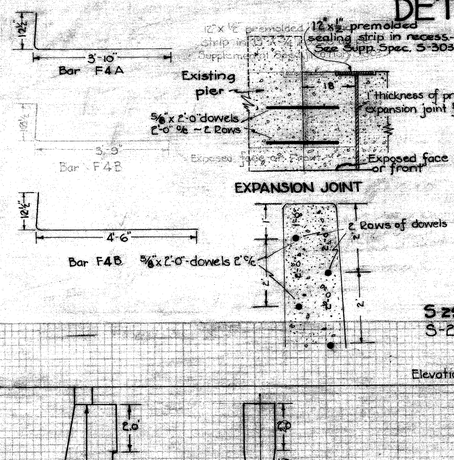
FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR	10 / 11
2	OHIO	H.I.F.	1950	

STARK COUNTY
STA-21-10.50





DETAIL OF RETAINING WALL
SCALE 1½" = 1'

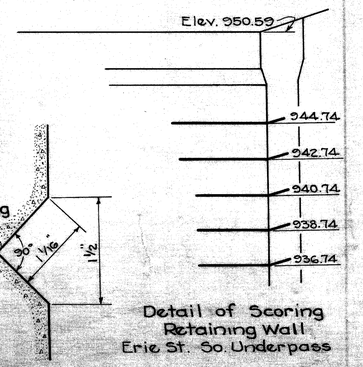


BAR LEGEND
W = Wall
F = Footing
4 = ⅝ ϕ size
A, B, C etc. = Mark

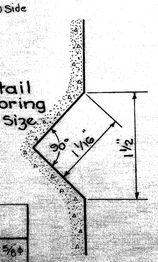
QUANTITIES OF CONCRETE IN RETAINING WALLS

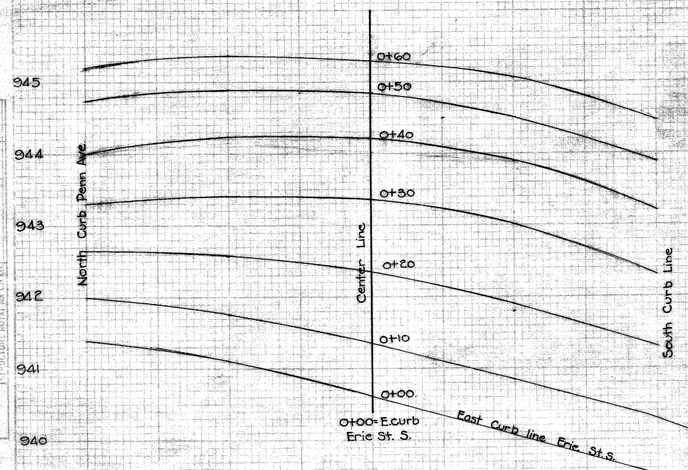
Wall Height	Lin. Ft.	Footer	Stem
9'-6"	80'	26.05 cu.yd.	33.55 cu.yd.
7'-6"	32'	7.29 cu.yd.	11.08 cu.yd.
5'-0"	34'	5.65 cu.yd.	6.51 cu.yd.
	TOTAL	38.99 cu.yd.	57.14 cu.yd.

REINFORCING STEEL DATA				
	NO.	LENGTH	Spacing	LIN. FT. ⅝ ϕ
W4A	8	31'-8"	2'-0" ℄	253.36
W4D	8	47'-8"	2'-0" ℄	381.36
F4C	1	31'-8"	-	31.67
F4D	1	47'-8"	-	47.67
W4F	28	7'-2"	3'-0" ℄	199.92
W4G	29	7'-5"	3'-0" ℄	207.76
F4A	40	4'-8½"	3'-0" ℄	188.40
W4C	16	15'-8"	2'-0" ℄	250.72
F4E	3	15'-8"	-	47.01
W4H	12	5'-2"	3'-0" ℄	62.04
W4I	12	5'-5"	3'-0" ℄	65.04
W4E	4	17'-8"	2'-0" ℄	70.67
F4G	1	17'-8"	-	17.67
F4B	13	5'-4⅝"	3'-0" ℄	69.81
W4J	13	2'-9"	3'-0" ℄	35.75
Dowels	12	2'-0"	2'-0" ℄	24.00
TOTAL				1392.85 L.F.
TOTAL POUNDS				2032

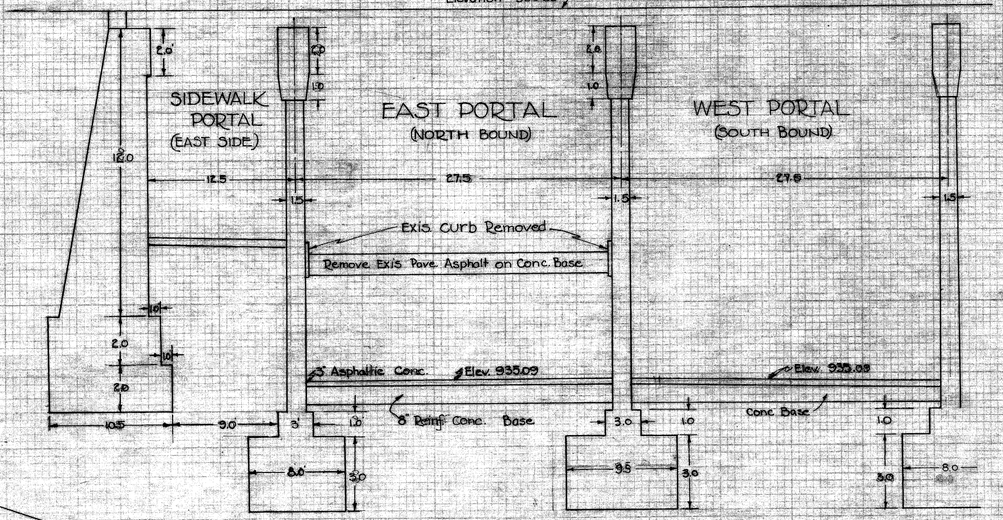


Detail of Scoring Retaining Wall Erie St. So. Underpass

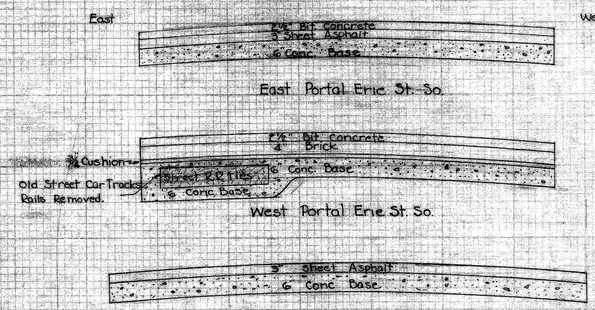




PENN AVE. S.E.
Proposed Pavement Sections



CROSS SECTION THRU UNDERPASS



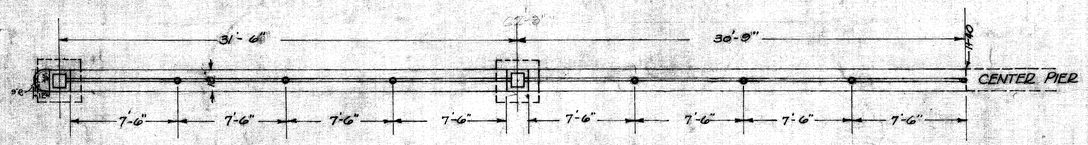
EXISTING TYPICAL SECTION OF PAVEMENT

P-295-ACC. NO. 2552

PENN AVE. S.E. SECTIONS ~ X-SECTION THRU UNDERPASS ~ DETAIL OF RETAINING WALLS

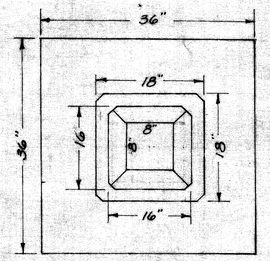
FED. REG. DIV.	STATE	PROJECT	FISCAL YEAR
2.	OHIO	H.I.F	1950

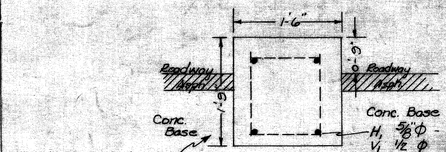
STARK COUNTY
STA-21-10.50



CENTER CURB AND GUARD RAIL

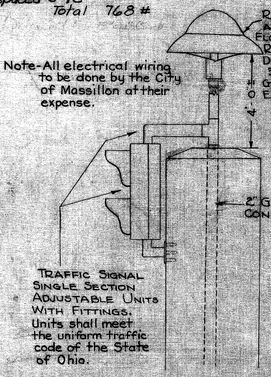
PLAN TO BE REVERSED FOR NORTH SIDE OF R.R. CENTER PIER





Note:- Reinforcing steel as shown included in unit price bid for 18"x21" Curb.

Typical Curb Section

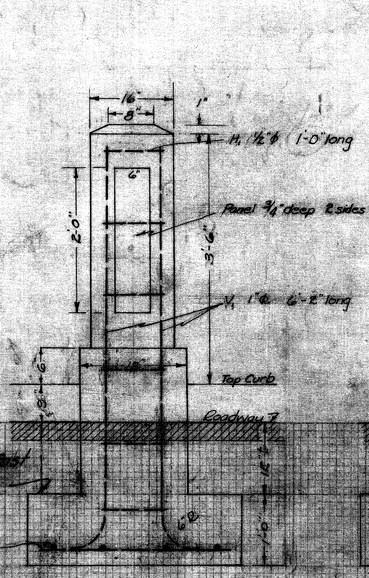


Note-All electrical wiring to be done by the City of Massillon at their expense.

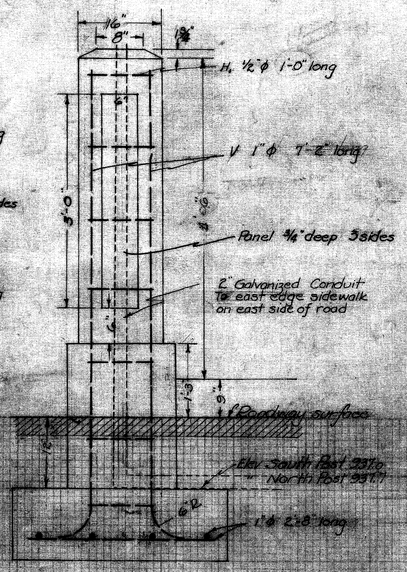
TRAFFIC SIGNAL SINGLE SECTION ADJUSTABLE UNITS WITH FITTINGS. Units shall meet the uniform traffic code of the State of Ohio.

END POST LIGHTING DETAIL

5-25	100	Lin.Ft.	2 Galvanized conduit
	4	Each	Single Section Adjustable Unit Traffic Signal
	2	Each	Floodlights

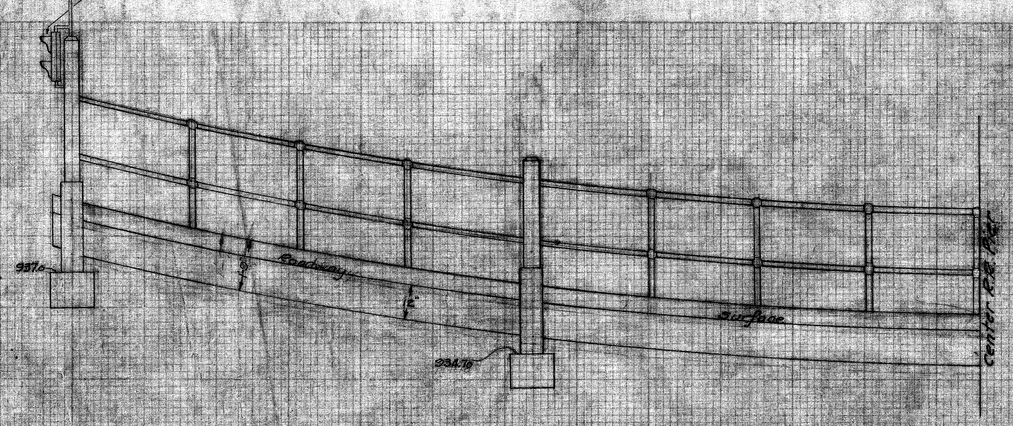


MIDDLE POST DETAIL

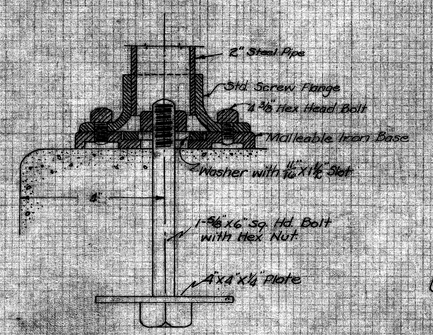


END POST DETAIL

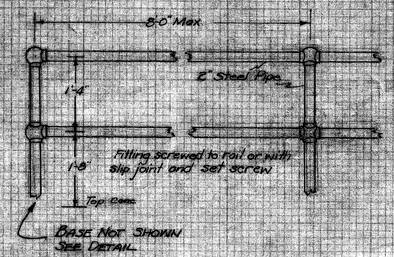
STEEL DEMR. FOR POSTS				
V,	8 PCS	1"ϕ	6'-8" long	132#
	8 PCS	1"ϕ	7'-2" long	143#
H₂	22 PCS	1"ϕ	2'-8" long	228#
H,	104 PCS	1/2"ϕ	1'-0" long	69#
			TOTAL	582.00#



PROFILE OF CENTER CURB AND GUARD RAIL



DETAIL OF BASE



Rails shall be 2" standard weight wrought iron pipe spaced as shown, malleable iron fittings threaded or slip joints firmly pinned. Painting shall include 1 coat of red or sublimed blue lead and 2 coats of coal tar pitch or asphalt varnish. Rivets, bolt heads and all edges shall be given additional coat of paint.

PIPE RAILING

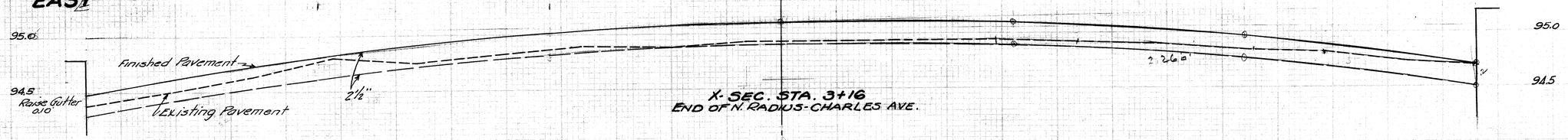
P-295-ACC. NO. 2553

DETAIL OF CENTER CURB & GUARD RAIL

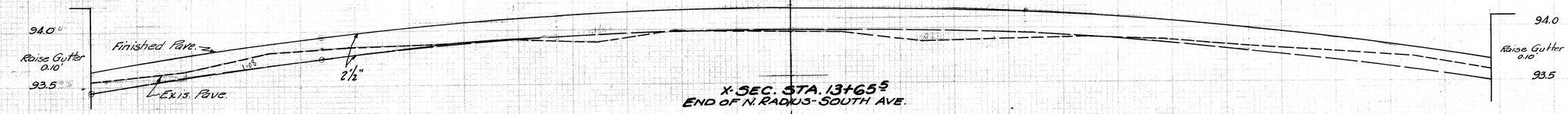
EAST

26 24 22 20 18 16 14 12 10 8 6 4 2 ℄ 2 4 6 8 10 12 14 16 18 20 22 24 26

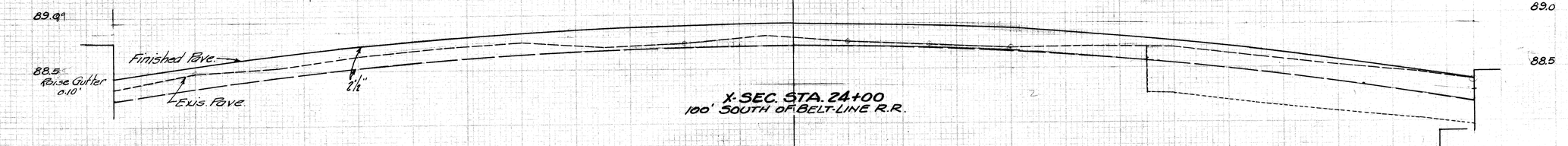
WEST



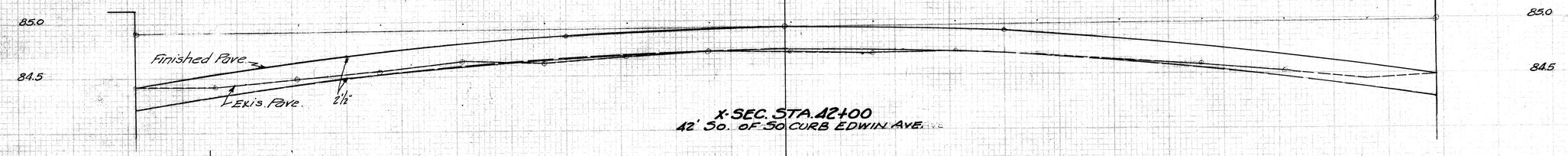
X-SEC. STA. 3+16
END OF N. RADIUS-CHARLES AVE.



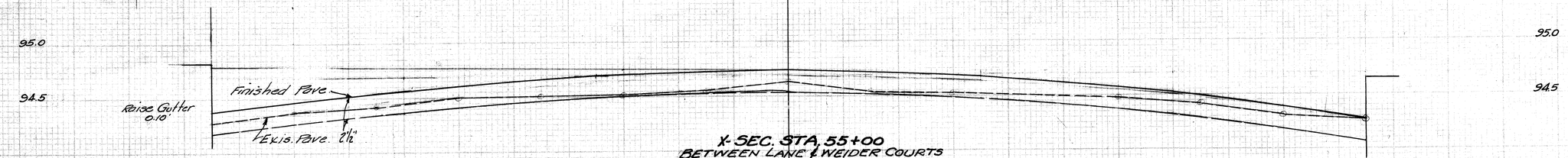
X-SEC. STA. 13+65
END OF N. RADIUS-SOUTH AVE.



X-SEC. STA. 24+00
100' SOUTH OF BELT-LINE R.R.

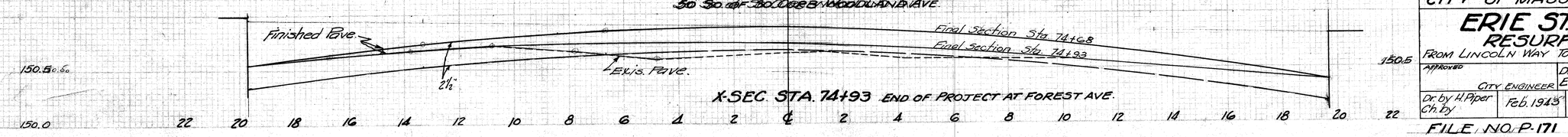


X-SEC. STA. 42+00
42' So. of So. CURB EDWIN AVE.



X-SEC. STA. 55+00
BETWEEN LANE & WEIDER COURTS

X-SEC. STA. 68+00
50' So. of So. CURB WOODLAWN AVE.



X-SEC. STA. 74+93 END OF PROJECT AT FOREST AVE.

22 20 18 16 14 12 10 8 6 4 2 ℄ 2 4 6 8 10 12 14 16 18 20 22

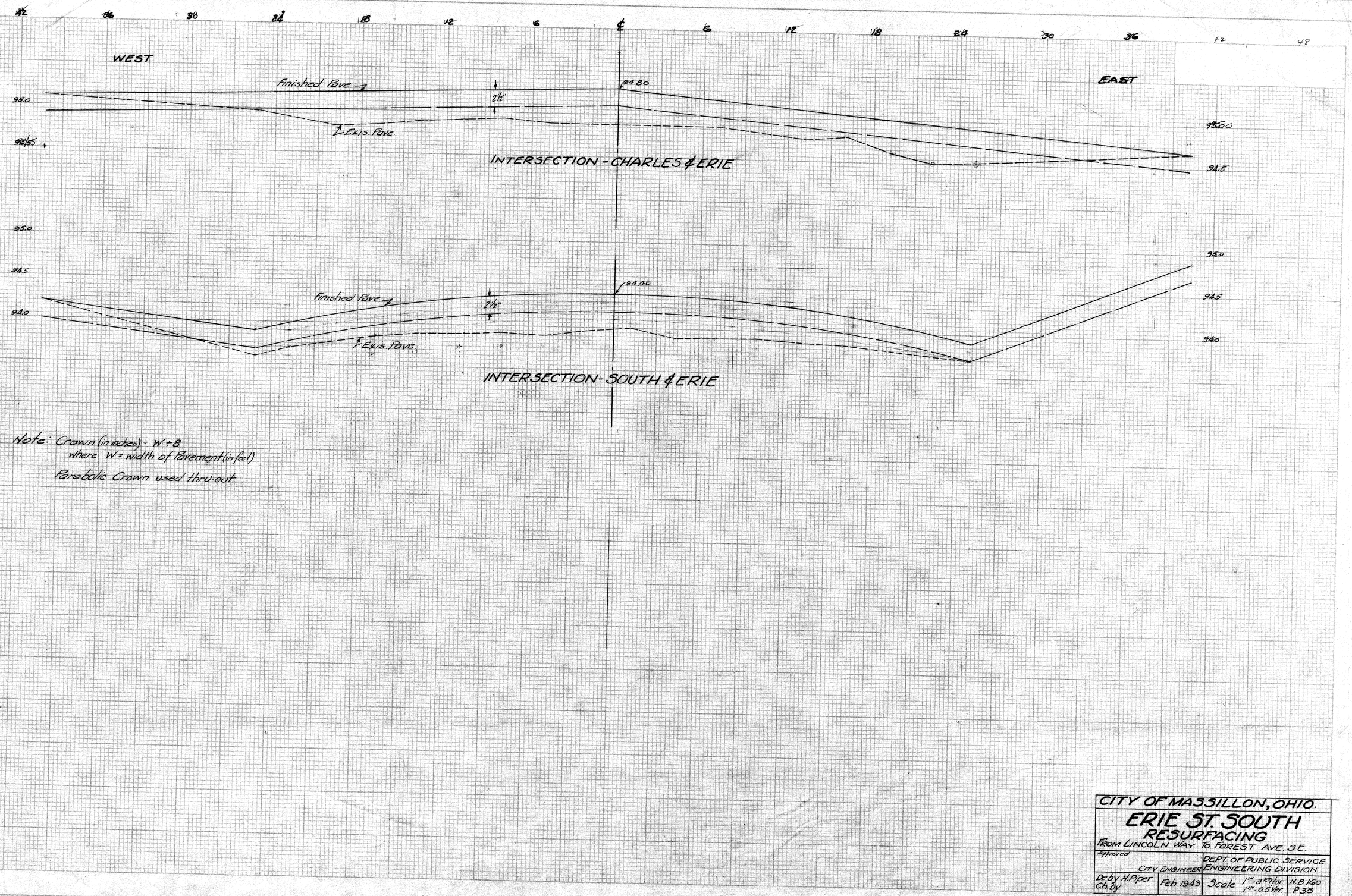
CITY OF MASSILLON, OHIO.

ERIE ST. SOUTH RESURFACING

FROM LINCOLN WAY TO FOREST AVE. S.E.

APPROVED CITY ENGINEER	DEPT. OF PUBLIC SERVICE ENGINEERING DIVISION
Dr. by H. Piper Ch. by	Feb. 1943
Scale: 1in=2Ft. Hor. 1in=6in Ver.	N.B. 160 P. 38

FILE NO. P-171 ACC. NO. 1508



Note: Crown (in inches) = W ÷ 8
Where W = width of Pavement (in feet)

Parabolic Crown used thru-out.

FINAL SURVEY — SURVEYED, PLOTTED, TRACED, NOTE BOOK, PAGE, NO., AREA CHECKED, DATE, BY

ORIGINAL SURVEY — SURVEYED, PLOTTED, TRACED, NOTE BOOK, PAGE, NO., AREA CHECKED, DATE, BY

CITY OF MASSILLON, OHIO.

ERIE ST. SOUTH RESURFACING

FROM LINCOLN WAY TO FOREST AVE. S.E.

Approved _____ CITY ENGINEER

DEPT. OF PUBLIC SERVICE
ENGINEERING DIVISION

Dr. by H. Piper	Feb. 1943	Scale 1" = 3 Ft. Hor.	N.B. 160
Ch. by		1" = 0.5 Ver.	P. 38

FILE NO. P.171 ACC. NO. 1509

PLATES - LADDA SECTION
TYPE A CURB NO. 1 CINCINNATI, OHIO