

RECORD DRAWINGS
WORK AS CONSTRUCTED

MASSILLON, OHIO
CONSTRUCTION OF LOCAL PROTECTION PROJECT
SECTION 2, UNIT 1

CORPS OF ENGINEERS

U. S. ARMY

HUNTINGTON DISTRICT

#1

I N D E X

SHEET NO.	FILE NO.	DESCRIPTION	SHEET NO.	FILE NO.	DESCRIPTION	SHEET NO.	FILE NO.	DESCRIPTION
1	0271-PM2-0/1	Index		0271-PM2-00/02	Penna R.R. Bridge over Channel	28	0271-PM2-00/30	Castings and Splices
2	10/1	Site Map	*	00/0	West Abutment-Reinforcing Details	29	00/35	Utility Manhole Details
*	10/2	Plan of Foundation Explorations			TREMONT AVENUE VIADUCT	30	00/45	Miscellaneous Pavement Det. & Access Road
*	10/4	Test Borings	11	0271-PM2-00/17	General Plan and Profile		00/350	Conduit Support Angles at Pier No. 6
*	10/5	Test Borings	12	00/10	East Abutment			
			13	00/10	East Abutment-Reinforcing Details	31	0271-PM2-00/21	Public Utilities-Location Plan
			14	00/20	Piers Nos. 1, 2, 3, 8 & 10	32	00/22	Public Utilities-Location Plan
3	0271-PM2-10/10	General Plan	15	00/21	Piers Nos. 4 & 7	33	00/25	Sewer Changes
4	10/10	General Plan	16	00/22	Piers Nos. 5 & 6	34	00/311	Tremont Avenue Siphon
5	10/10	Typical Channel Sections	17	00/23	Pier No. 9	35	00/36	Miscellaneous Sewer Details
6	10/15	Typical Railroad and Payment Sections	18	00/24	West Abutment	36	00/37	Ohio Water Service Co. Changes-Tremont Ave.
7	10/16	Profiles	19	00/25	Retaining Wall-Layout	37	00/39	Ohio Water Service Co. Changes-Lincoln Way
8	10/19	Grading Distribution	20	00/26	Retaining Wall-Typical Sections			
			21	00/27	Retaining Wall-Typical Sections			
			22	00/28	Approach Sections and Details			
		PENNSYLVANIA RAILROAD	23	00/29	Steel Plan and Design Data			
*	0271-PM2-00/10	West Abutment	24	00/30	Anchor Bolt Plan and Erection Data			
*	00/10	Tie Plan	25	00/31	Floor Plan and Details			
9	00/30	Penna. R.R. Details and Roadbed Sections	26	00/32	Typical Sections and Details			
10	00/31	West Abutment-Masonry & Reinforcing Det.	27	00/33	Railing Details			

* SUBMITTED FOR PURPOSE OF INFORMATION ONLY (Drawings follow Sheet No. 37)

TUSCARARWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO
SECTION 2 - UNIT 1

INDEX

IN 37 SHEETS

SHEET NO. 1

SCALE: NONE

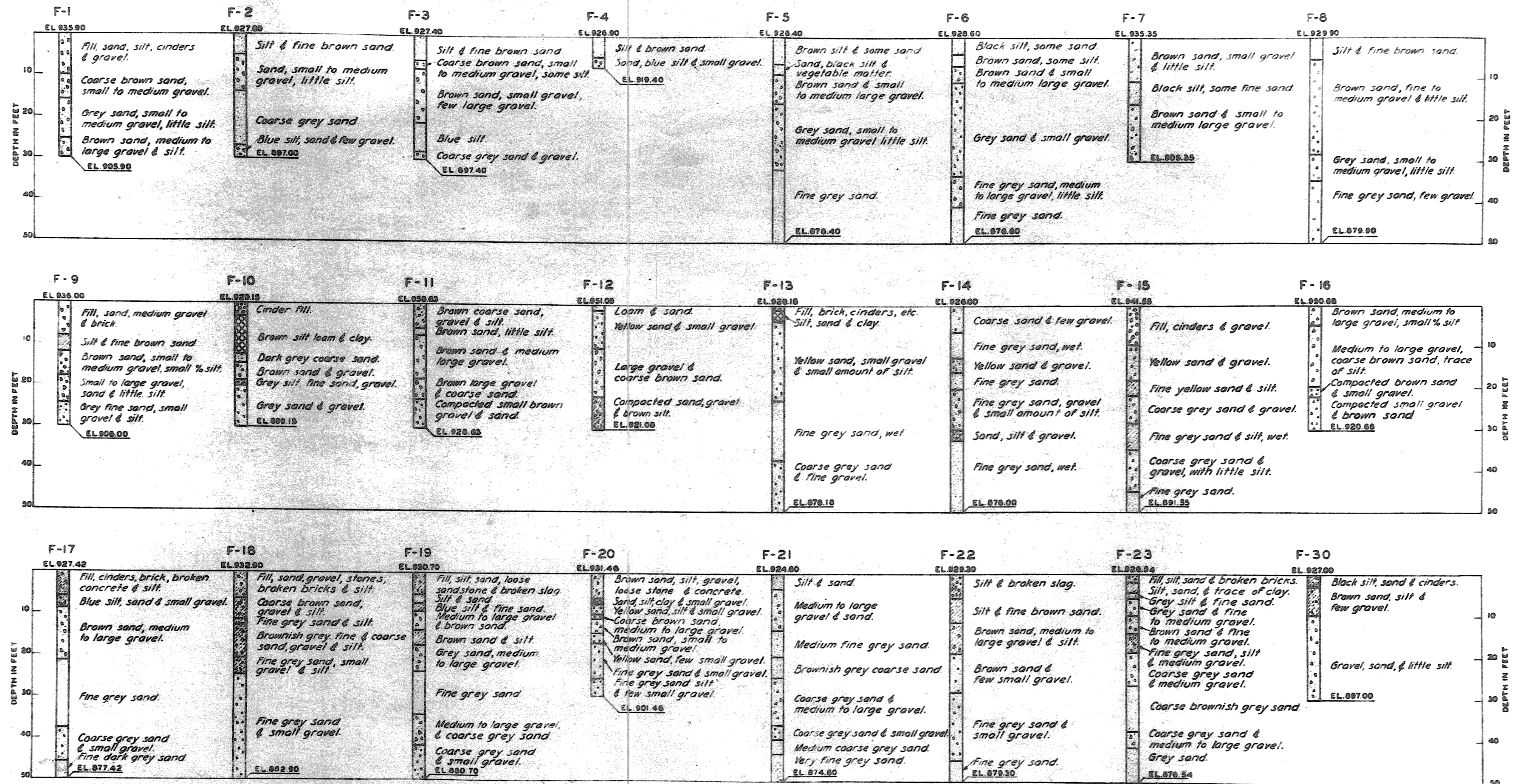
APRIL 1947

HUNTINGTON DISTRICT, CORPS OF ENGINEERS, WAR DEPT.

SUBMITTED BY: *E. D. O.* ENGINEER
RECOMMENDED FOR APPROVAL BY: *W. L. S.* TECHNICAL ASSISTANT
APPROVED BY: *W. L. S.* COLONEL, CORPS OF ENGINEERS
CHECKED BY: *E. D. O.* TRANSMITTED WITH LETTER
FILE NO. 0271-PM2-0/1 DATES

BY	DATE	CHARACTER
		REVISIONS

WORK AS CONSTRUCTED



Note:
See Dwg. No. 10/2 for location of test borings.

**TUSCARAWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO
SECTION 2 - UNIT 1**

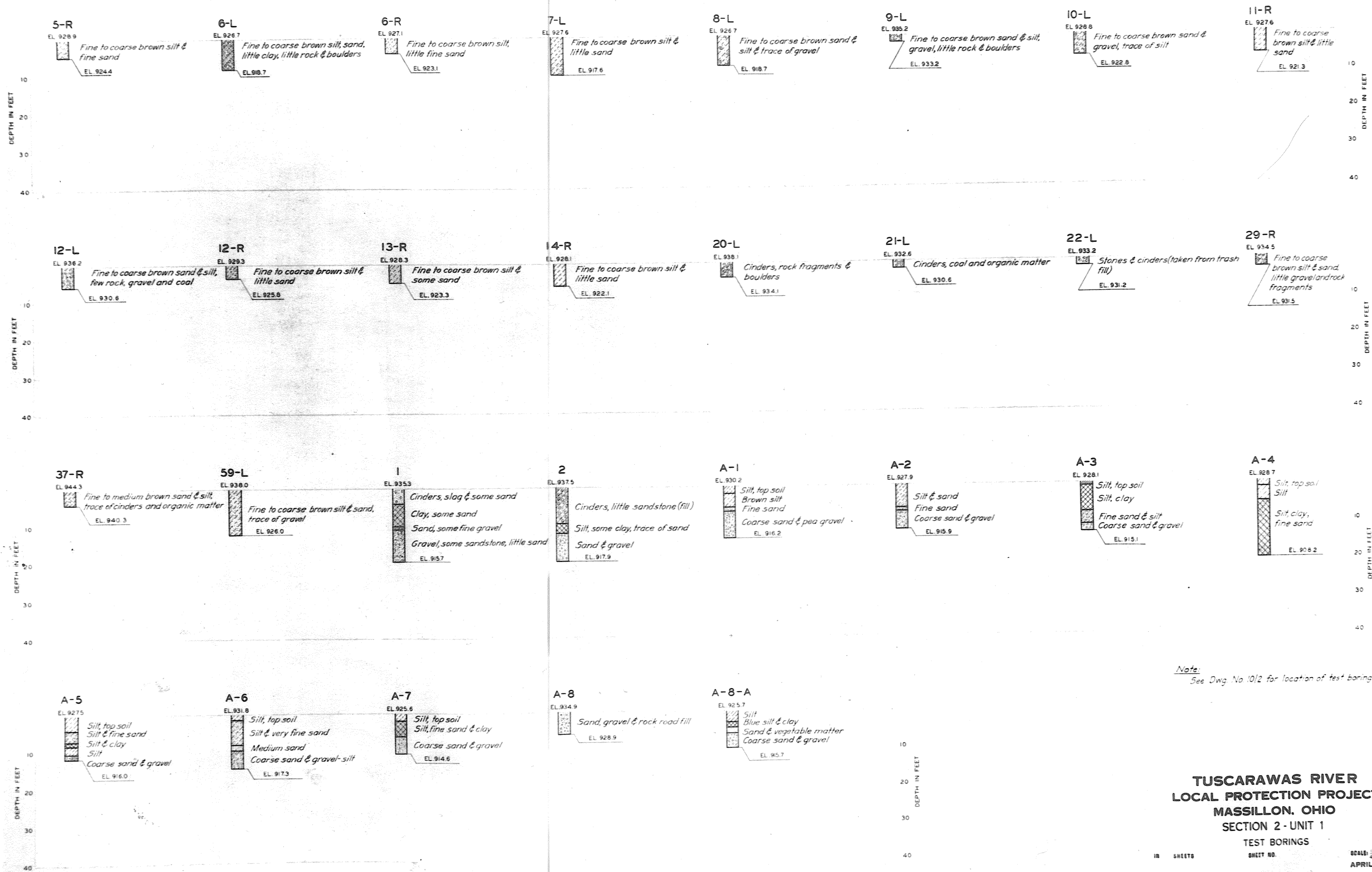
TEST BORINGS

IN SHEETS SHEET NO. SCALE: 1"=10'-0" APRIL 1947
HUNTINGTON DISTRICT, CORPS OF ENGINEERS, WAR DEPT.
SUBMITTED FOR APPROVAL APPROVED
ENGINEER TECHNICAL ASSISTANT COLONEL, CORPS OF ENGINEERS
DRAWN BY W.B.S. TRANSMITTED WITH LETTERS
CHECKED BY J.M.B. FILE NO 0271PM2-10/4 DATED

BY	DATE	CHARACTER
		REVISIONS

WORK AS CONSTRUCTED

SUBMITTED FOR PURPOSE OF INFORMATION ONLY



**TUSCARAWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO
SECTION 2 - UNIT 1
TEST BORINGS**

IN SHEETS SHEET NO. APRIL 1947

HUNTINGTON DISTRICT, CORPS OF ENGINEERS, WAR DEPT.

RECOMMENDED FOR APPROVAL APPROVED

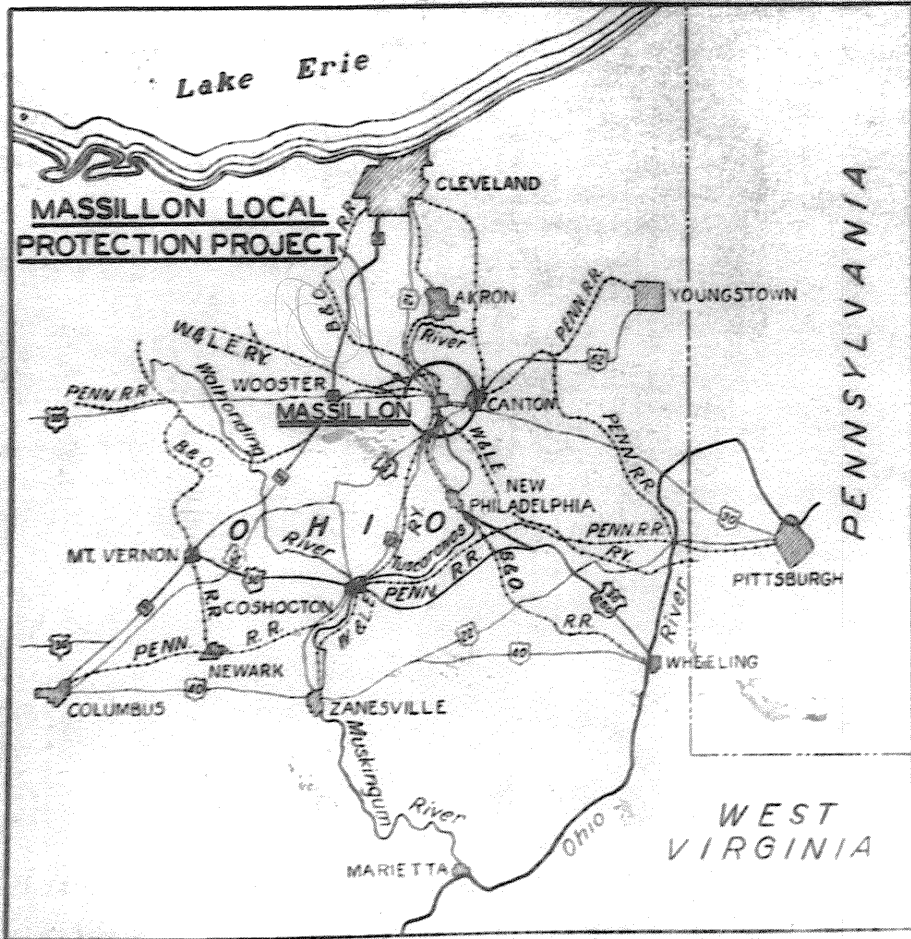
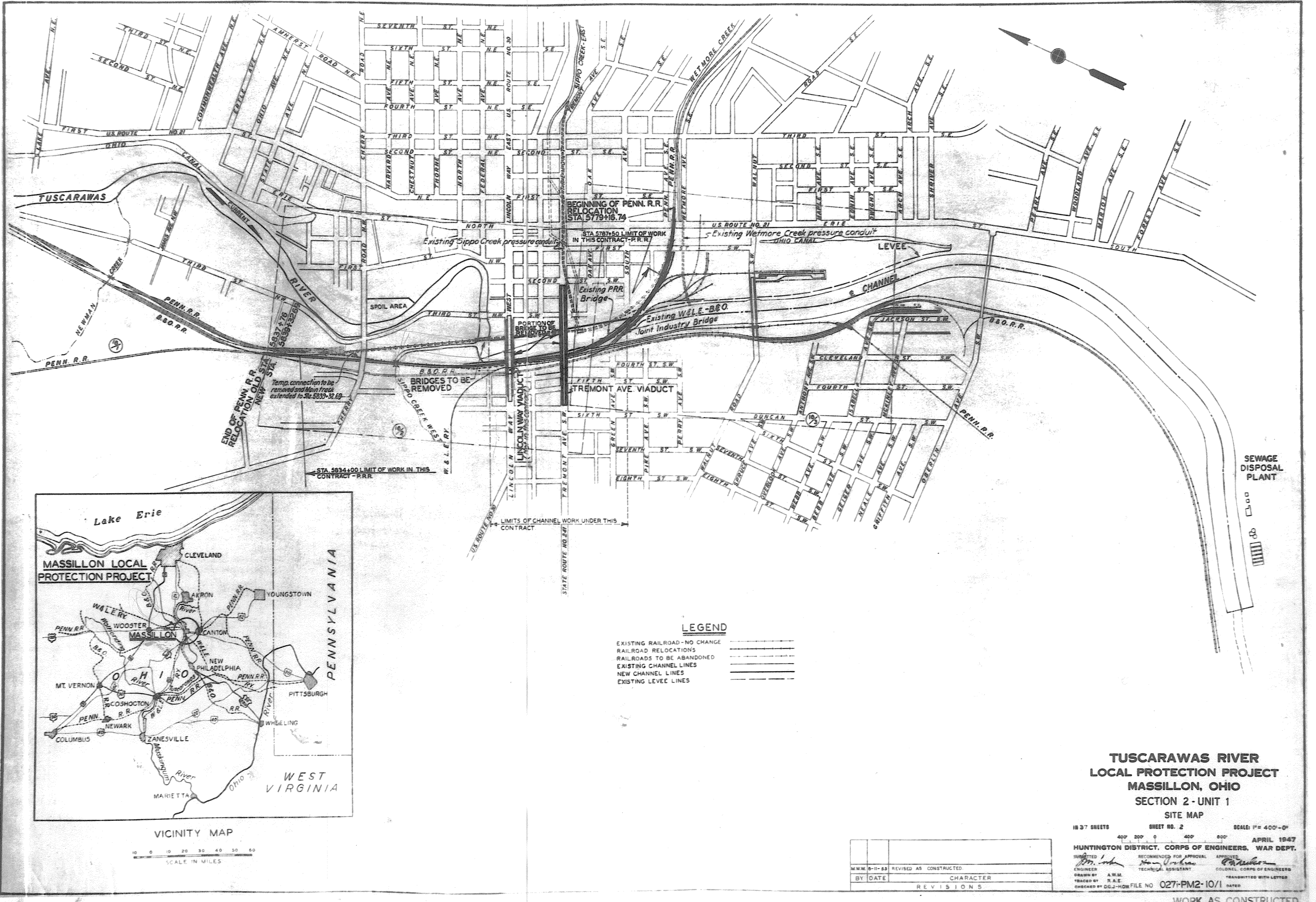
ENGINEER ENGINEER COLONEL, CORPS OF ENGINEERS

DRAWN BY N.J.B. CHECKED BY T.J.R. TRANSMITTED WITH LETTER

FILE NO. 0271-PM2-10/5 DATED

BY	DATE	CHARACTER

WORK AS CONSTRUCTED SUBMITTED FOR PURPOSE OF INFORMATION ONLY



VICINITY MAP

SCALE IN MILES
0 10 20 30 40 50 60

LEGEND

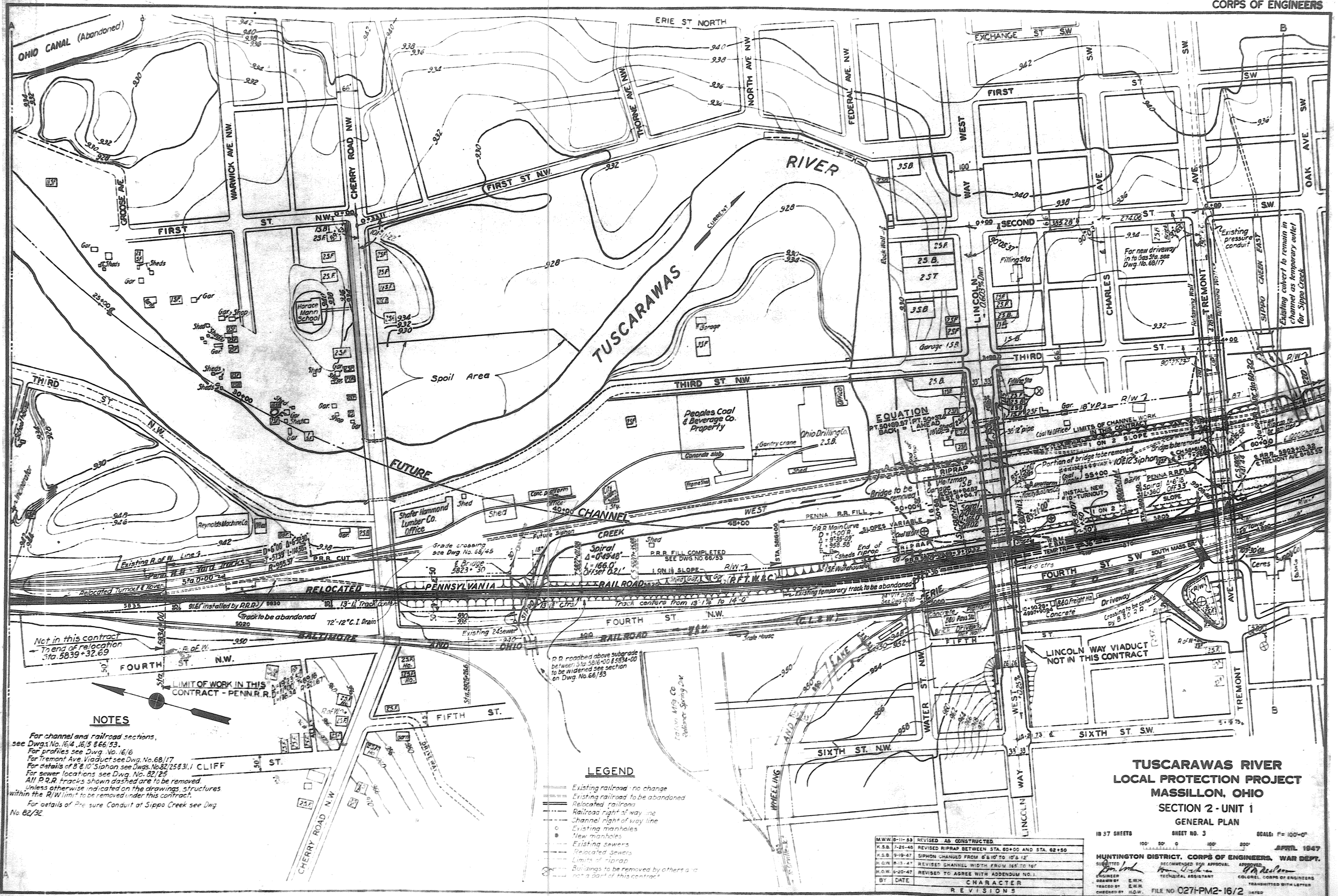
- EXISTING RAILROAD-NO CHANGE
- RAILROAD RELOCATIONS
- RAILROADS TO BE ABANDONED
- EXISTING CHANNEL LINES
- NEW CHANNEL LINES
- EXISTING LEVEE LINES

TUSCARAWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO
SECTION 2 - UNIT 1
SITE MAP

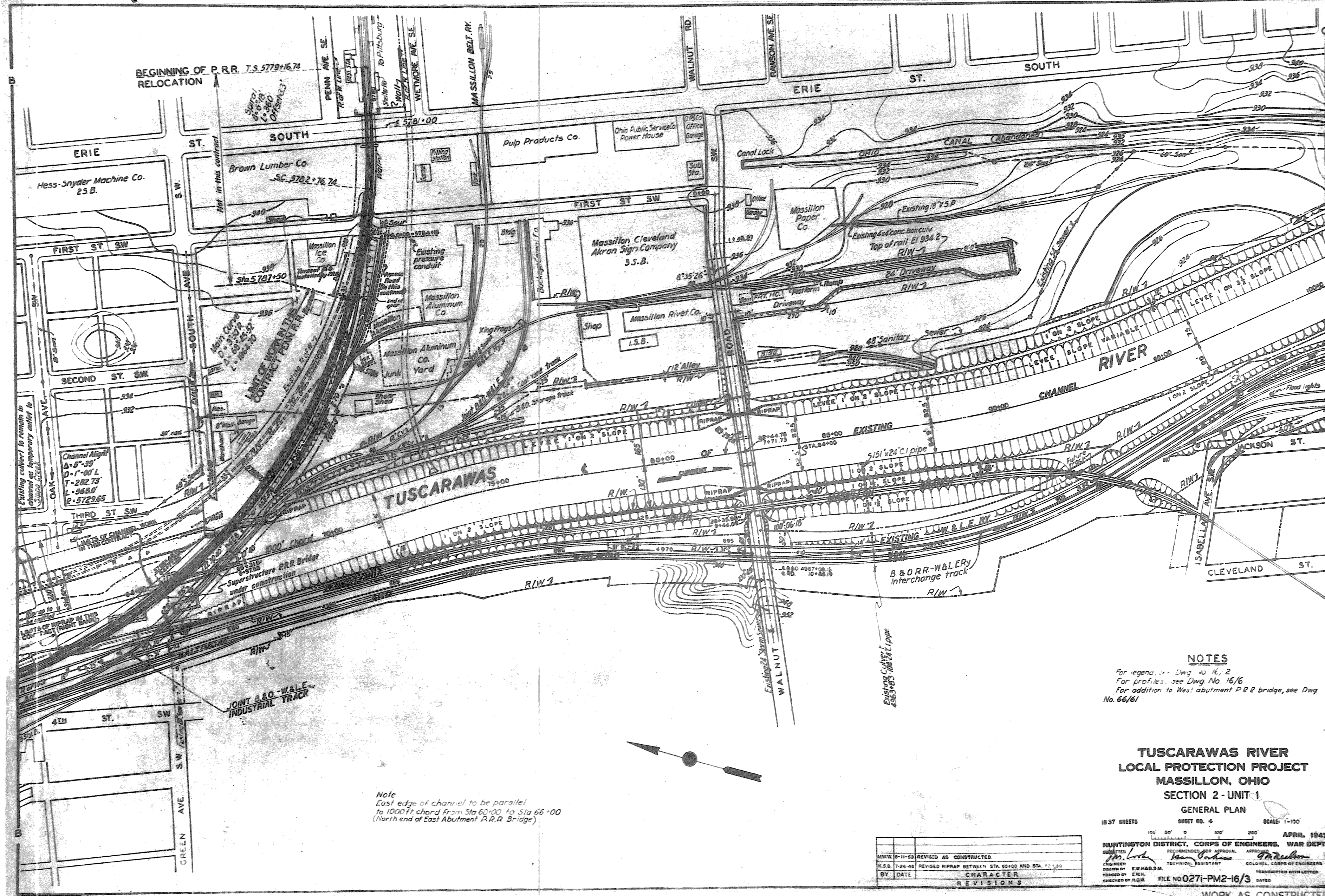
IN 37 SHEETS SHEET NO. 2 SCALE: 1" = 400'-0"
APRIL 1947
HUNTINGTON DISTRICT, CORPS OF ENGINEERS, WAR DEPT.
SUBMITTED BY: [Signature] RECOMMENDED FOR APPROVAL: [Signature]
ENGINEER: [Signature] TECHNICAL ASSISTANT: [Signature]
DRAWN BY: A.W.M. CHECKED BY: R.A.E.
TRANSMITTED WITH LETTER
FILE NO. 027-PM2-10/1 DATED

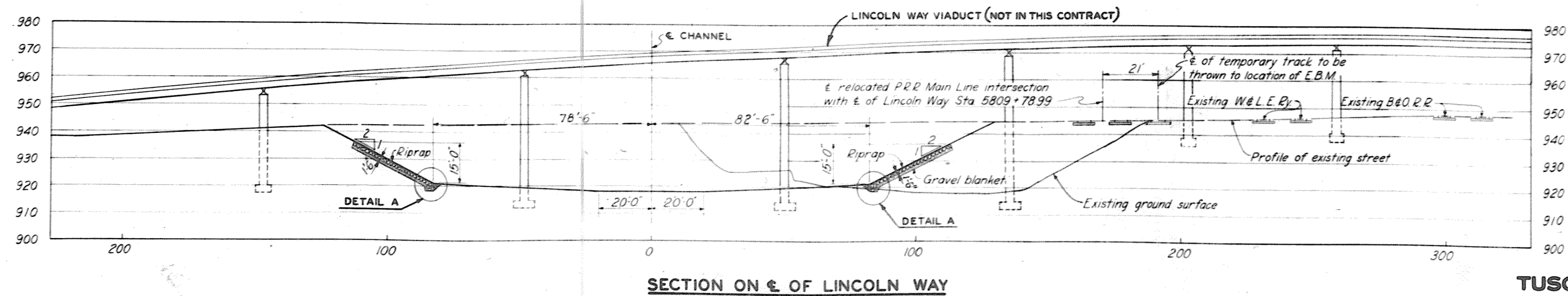
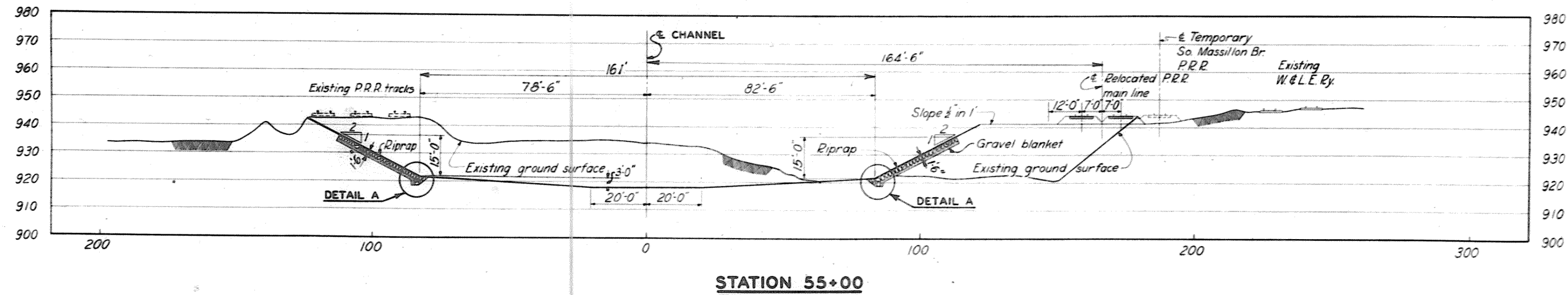
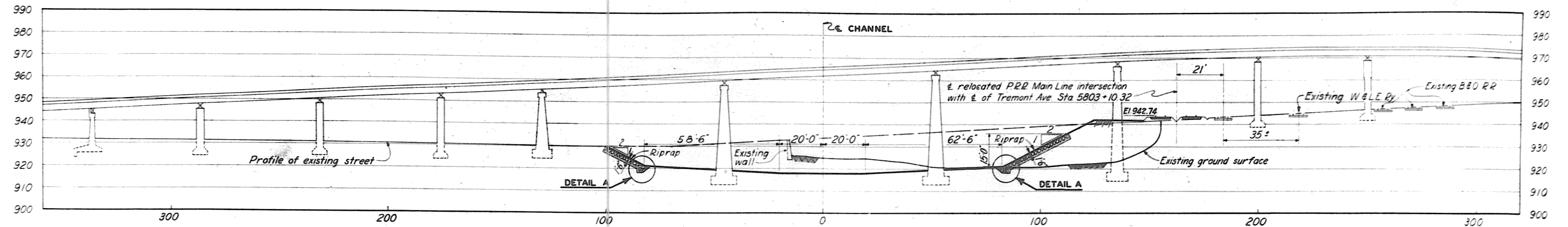
DATE	REVISIONS
BY	CHARACTER
DATE	REVISIONS

WORK AS CONSTRUCTED



WORK AS CONSTRUCTED





NOTE

See Dwg No. 16/5 for Detail A
Sections looking down stream unless
otherwise noted.

**TUSCARARWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO
SECTION 2 - UNIT 1
TYPICAL CHANNEL SECTIONS**

IN 37 SHEETS SHEET NO. 5 SCALE: 1" = 20'

APRIL 1947

HUNTINGTON DISTRICT, CORPS OF ENGINEERS, WAR DEPT.

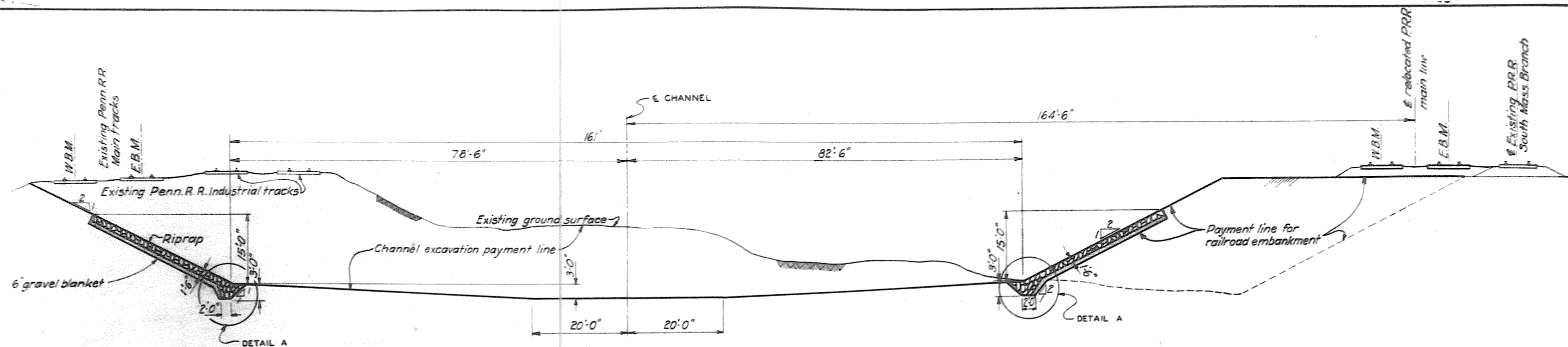
SUBMITTED BY: *[Signature]* RECOMMENDED FOR APPROVAL BY: *[Signature]* APPROVED BY: *[Signature]*

ENGINEER: *[Signature]* TECHNICAL ASSISTANT: *[Signature]* COLONEL, CORPS OF ENGINEERS

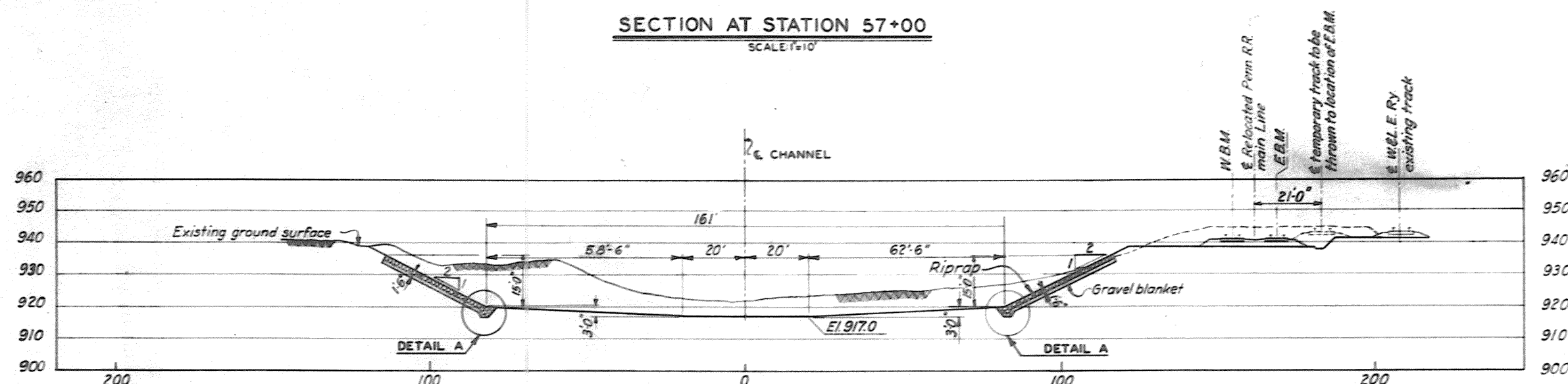
DRAWN BY: B.S.M. CHECKED BY: H.O.W. FILE NO. 0271-PM2-16/4 DATED: TRANSMITTED WITH LETTER

BY	DATE	REVISIONS
H.O.W.	8-13-47	REVISED CHANNEL WIDTH FROM 165' TO 181'

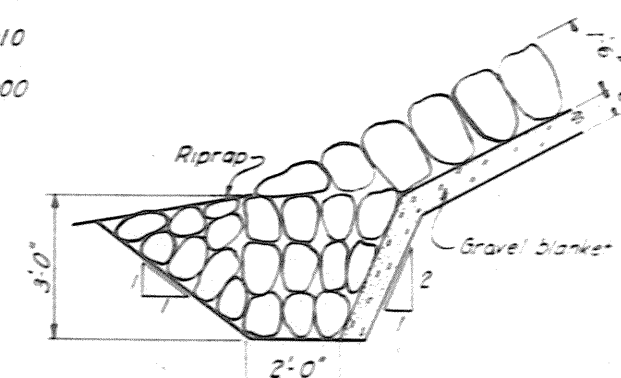
WORK AS CONSTRUCTED



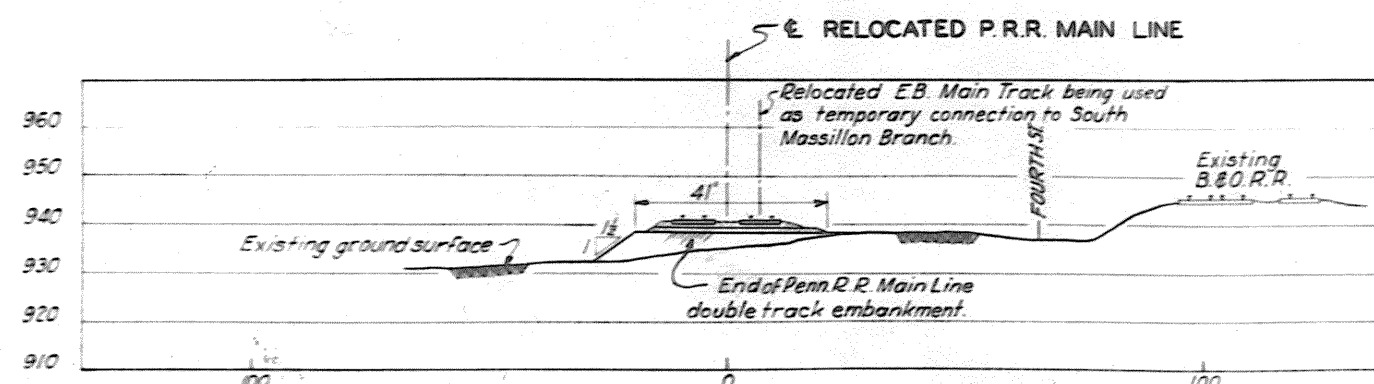
SECTION AT STATION 57+00
SCALE 1"=10'



SECTION AT STA. 5810+00 ON P.R.R. RELOCATION

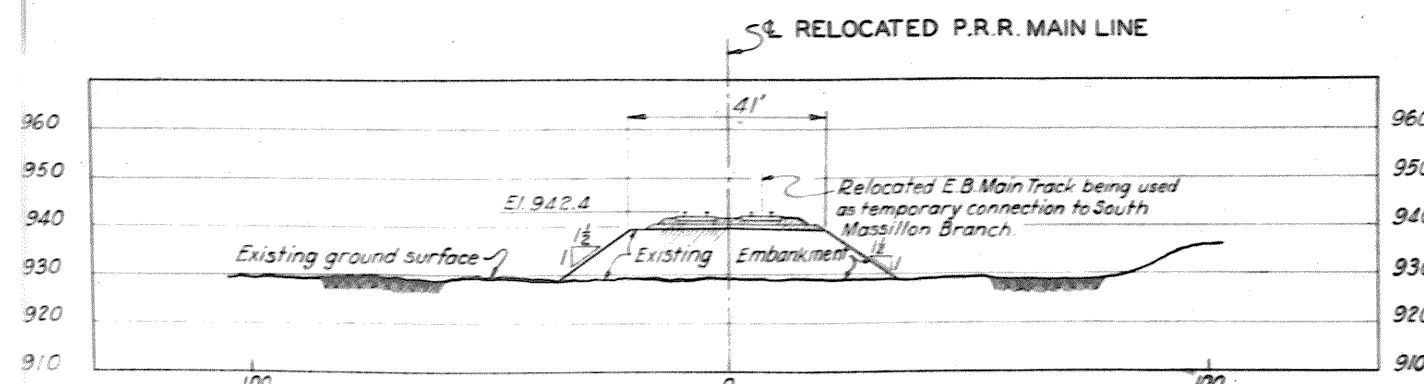


DETAIL A



P.R.R. STATION 5816+00

Note: Embankment completed on previous contract from Sta. 5816+00 to Cherry Rd.



P.R.R. STATION 5825+00

NOTE

Sections looking downstream unless otherwise noted
For Location Plan, see Dwg. No. 16/2

TUSCARAWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO
SECTION 2 - UNIT 1
TYPICAL R. R. & PAYMENT SECTIONS

IN 37 SHEETS SHEET NO. 6 SCALE 1"=20'

APRIL 1947

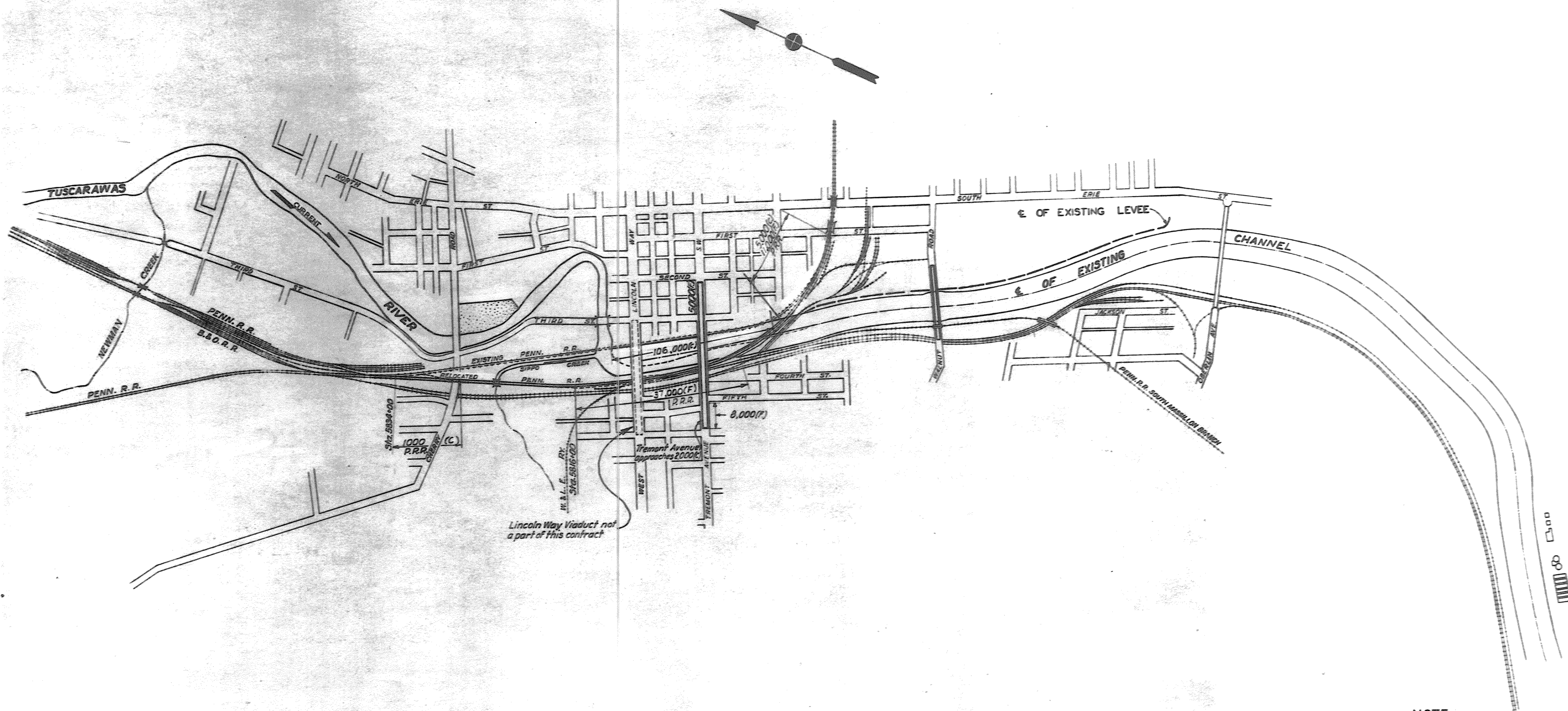
HUNTINGTON DISTRICT, CORPS OF ENGINEERS, WAR DEPT.
SUBMITTED BY: [Signature] RECOMMENDED FOR APPROVAL: [Signature]
ENGINEER: [Signature] TECHNICAL ASSISTANT: [Signature]
DRAWN BY: BSM TRACED BY: EWH CHECKED BY: HGW
FILE NO 0271-PM2-16/5

BY	DATE	CHARACTER

WORK AS CONSTRUCTED



WORK AS CONSTRUCTED



LEGEND

- Channel edge
- Available spoil areas

NOTE

The quantities and distribution of material indicated on the drawing are approximate only and are subject to variations as determined by field conditions.

**TUSCARAWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO
SECTION 2 - UNIT 1
GRADING DISTRIBUTION**

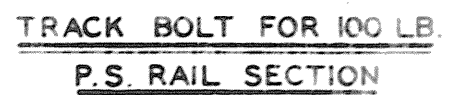
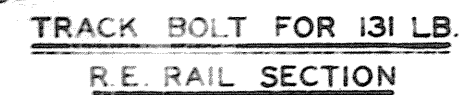
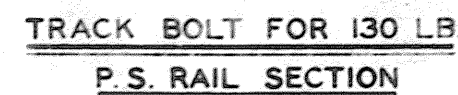
10 37 SHEETS SHEET NO. 8 SCALE: 1"=400'
APRIL 1947
HUNTINGTON DISTRICT, CORPS OF ENGINEERS, WAR DEPT.
SUBMITTED BY: [Signature] RECOMMENDED FOR APPROVAL: [Signature] APPROVED: [Signature]
ENGINEER: [Signature] COLONEL, CORPS OF ENGINEERS
DRAWN BY: H.W. & E.W.H. TRANSMITTED WITH LETTER
CHECKED BY: H.W. FILE NO. 0271-PM2-16/9 DATED:

BY	DATE	CHARACTER
		REVISIONS

WORK AS CONSTRUCTED

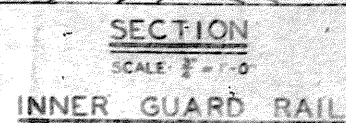
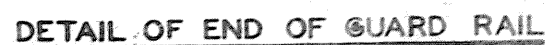


Note:
Standard 8'-6" ties not
included in bill of ties.



NO. 8 TURNOUT			
BILL OF TIES			
NO OF TIES	SIZE	NO OF TIES	SIZE
10	7"x9"x9'-0"	5	7"x9"x14'-0"
9	7"x9"x10'-0"	5	7"x9"x15'-0"
6	7"x9"x11'-0"	3	7"x9"x16'-0"
5	7"x9"x12'-0"		
7	7"x9"x13'-0"		

Total No of ties 50 = 3098 F.B.M.

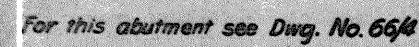


DEG. OF CURVE	SUPER ELEV.
	MAIN LINE
1°	2"
3°30'	6"

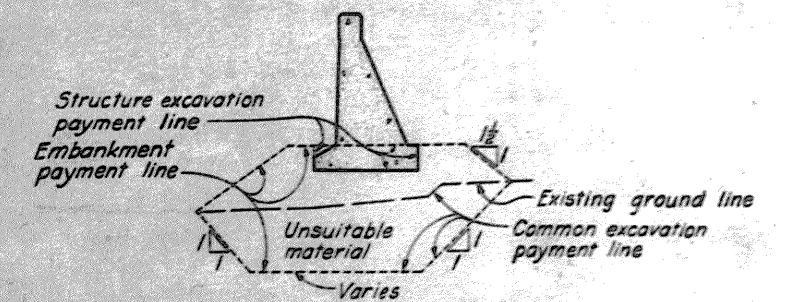
RECEIVED BY D.C. MAIL FILE NO 0271 TIME 00/55 DATED

WORK AS CONSTRUCTED

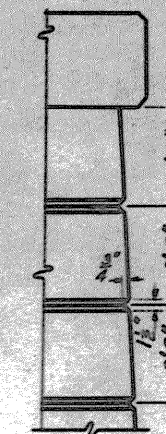
• See drain detail



PLAN



TYPICAL SECTION SHOWING REMOVAL OF
UNSUITABLE MATERIAL AND BACKFILL
FOR END MONOLITHS OF NORTH WING



GROOVE DETAIL

SCALE $\frac{1}{2}'' = 1'-0''$

NOTES

Chamfer all exposed edges $\frac{1}{2}$ " unless otherwise noted.
Place all reinforcing steel 4" minimum from surface
unless otherwise noted.
See Dwg. No. 66/4 for details on existing structure.



SCALE 1 1/2" = 1'-0"



SCALE $\frac{1}{4}'' = 1'-0''$



**TUSCARAWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO**

SECTION 2 - UNIT 1

PENNA. R. R. BRIDGE OVER CHANNEL

WEST ABUTMENT - MASONRY & REINFORCING DETAILS

NO. 37 SHEETS SHEET NO. 10 SCALE $\frac{1}{8}'' = 1' - 0''$

120 4 8 12 16 20

APRIL 1947

HUNTINGTON DISTRICT, CORPS OF ENGINEERS, WAR DEPT.

SUBMITTED	RECOMMENDED FOR APPROVAL	APPROVED
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

John L. ... *Harry ...* *Wm. ...*

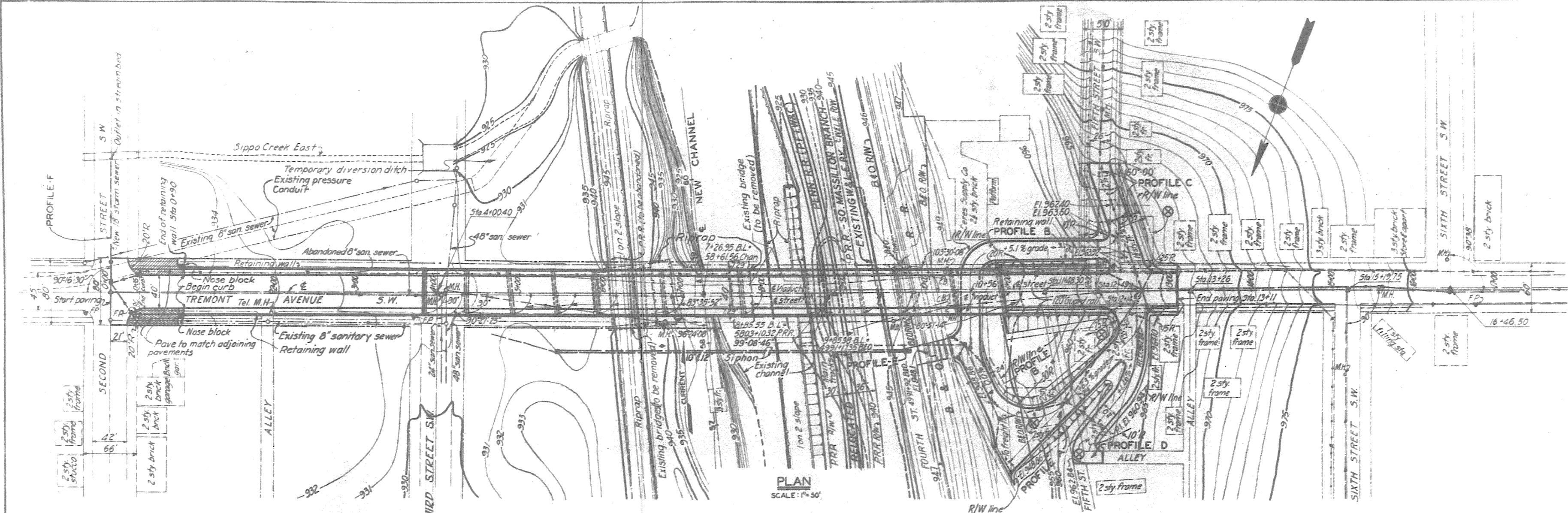
ENGINEER TECHNICAL ASSISTANT COLONEL CORPS OF ENGINEERS
DRAFT BY E.W.H.

FILE NO. 0271-PM2-66/61

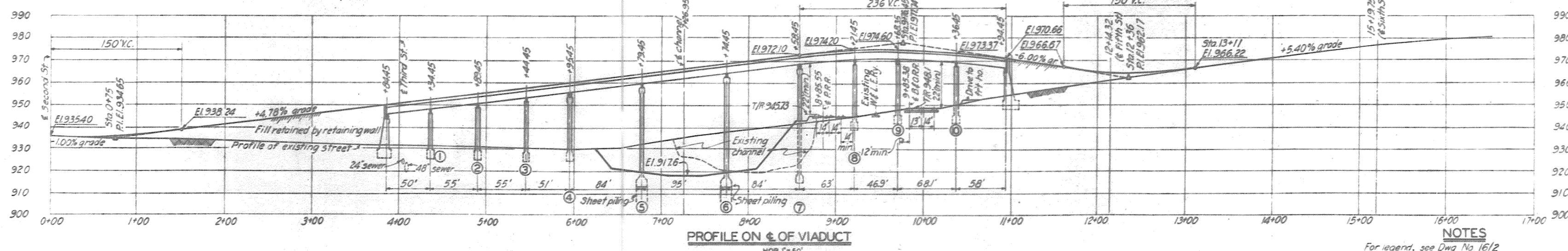
WORK IS CONTINUING

WORK AS CONSTRUCTED

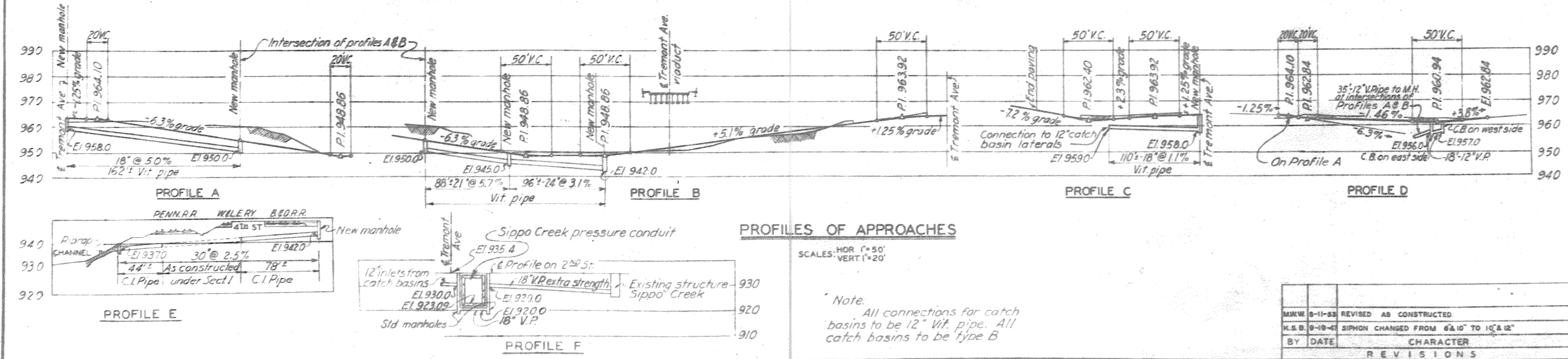




PLAN
SCALE: 1"=50'



PROFILE ON & OF VIADUCT
SCALE: HORIZ. 1"=50' VERT. 1"=20'



PROFILES OF APPROACHES
SCALE: HORIZ. 1"=50' VERT. 1"=20'

NOTES
For legend, see Dwg. No. 16/2
For pavement details, see Dwg. Nos. 68/28 & 68/45
For general plan, see Dwg. No. 16/2
For details of siphon, see Dwg. No. 62/31.1
For details of headwall, see Dwg. No. 62/25.
For details of catch basins and manholes, see Dwg. No. 62/36.
The B & O RR grade crossing is not included in this contract.
For guard rail details, see Dwg. No. 63/45
25' approach slabs required at both ends of viaduct for details, see Dwg. No. 68/28

**TUSCARAWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO
SECTION 2 - UNIT 1
TREMONT AVENUE VIADUCT
GENERAL PLAN & PROFILE**

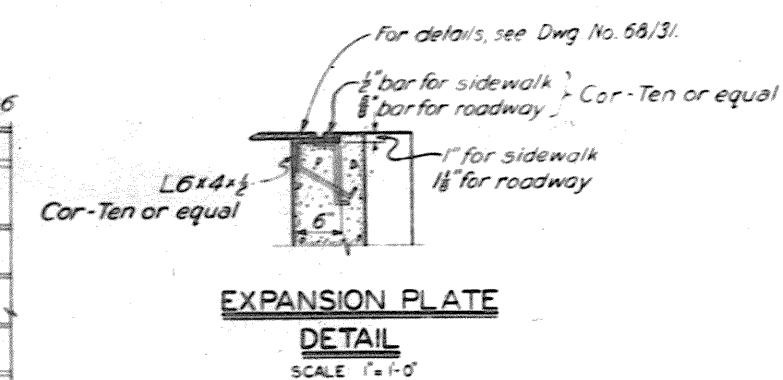
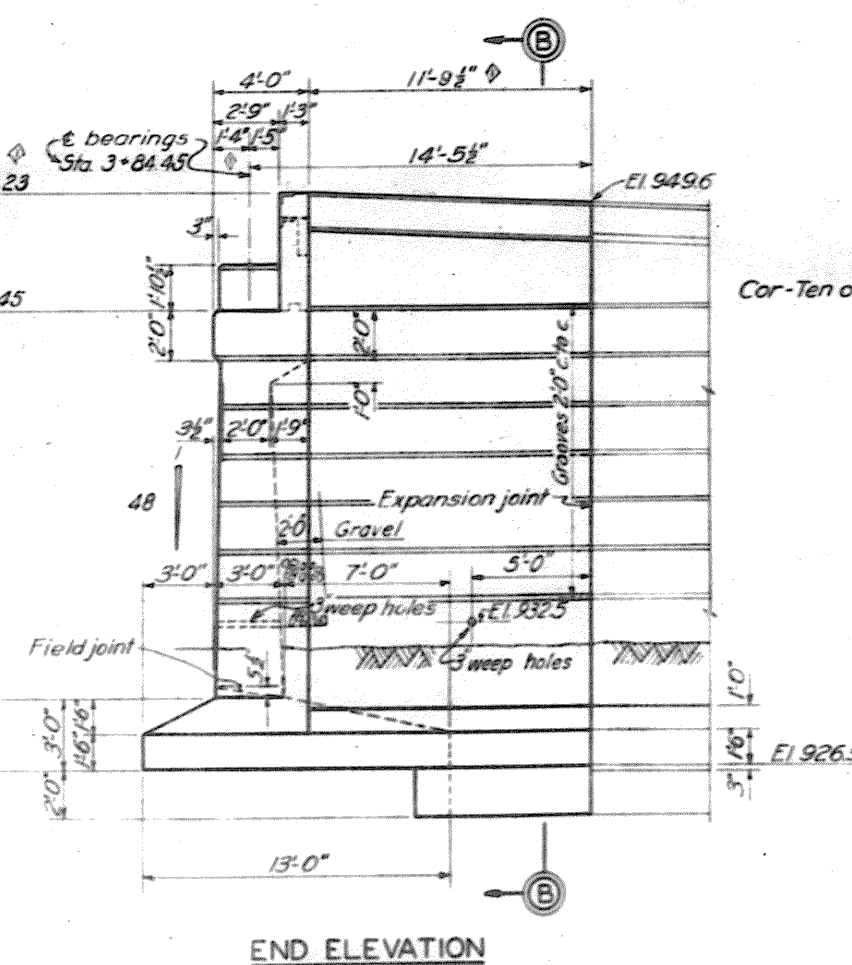
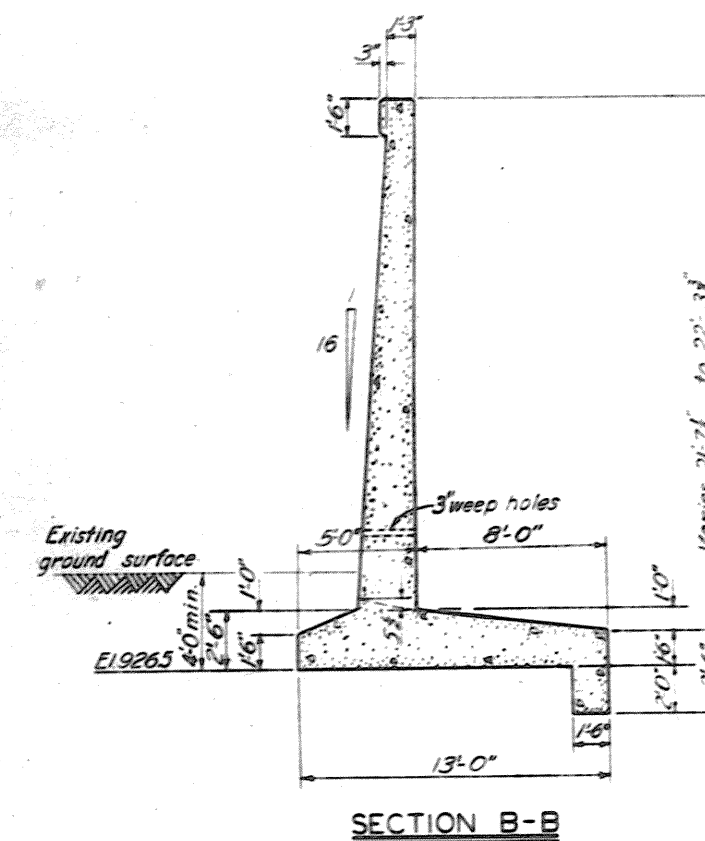
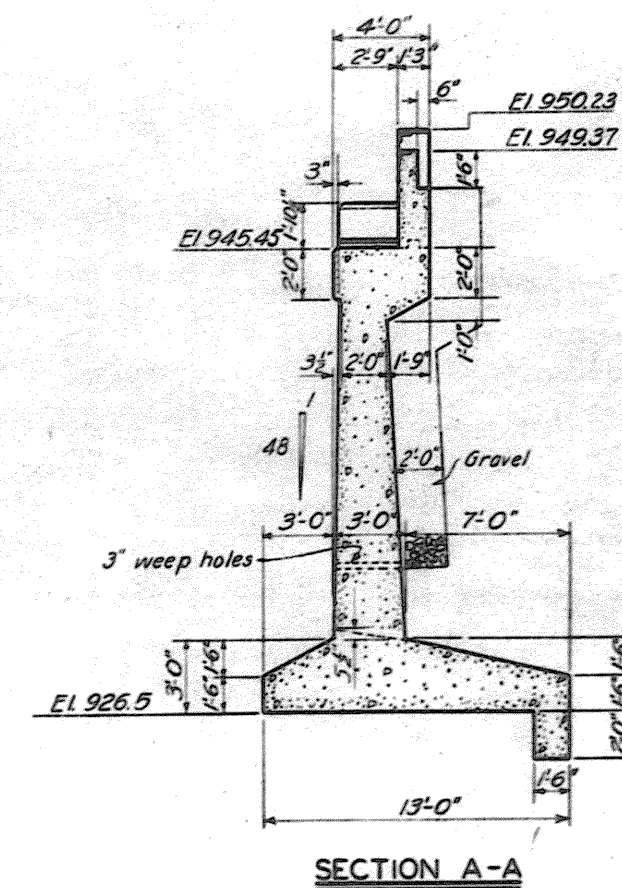
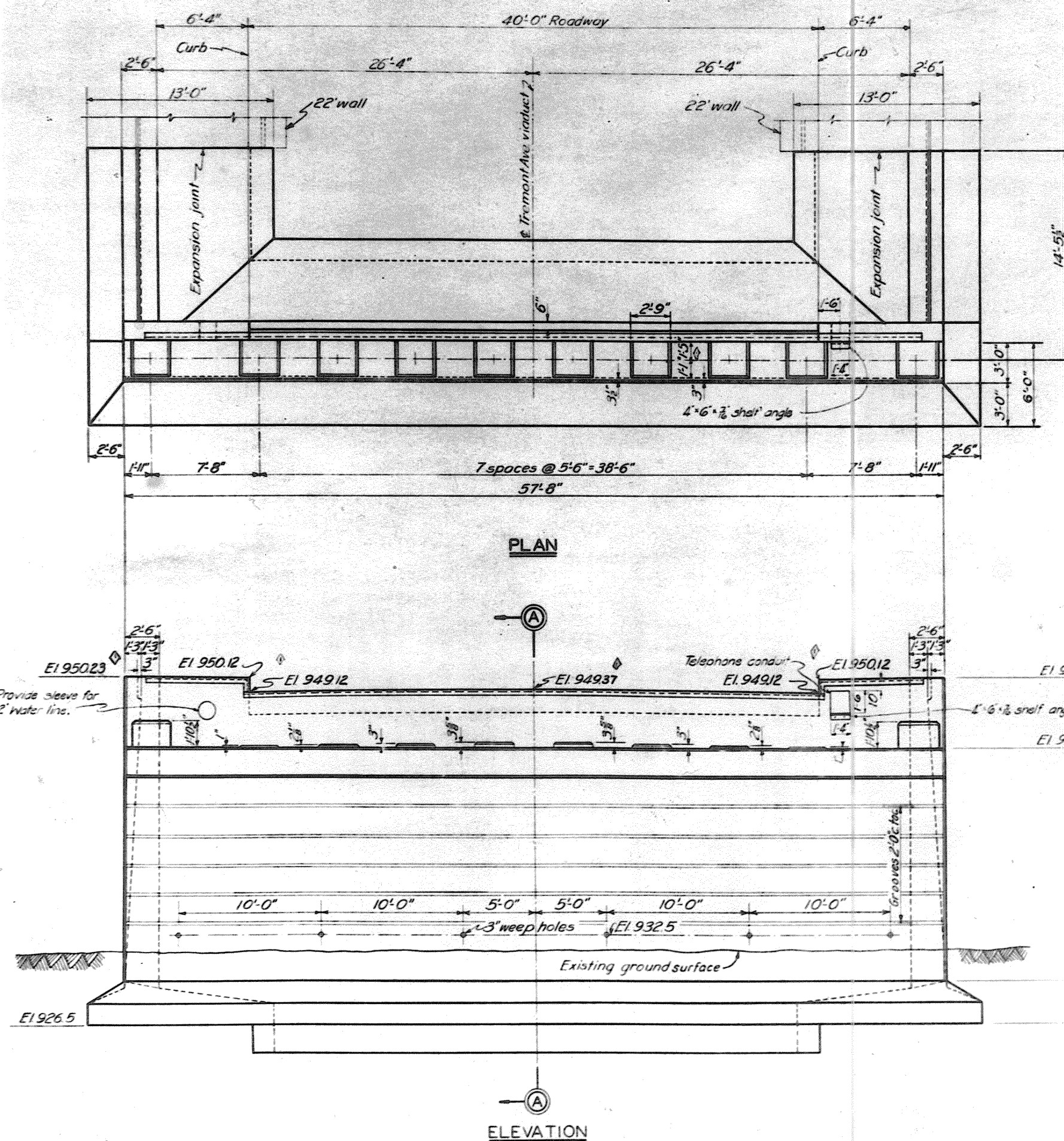
IN 37 SHEETS SHEET NO. 11 SCALE: AS SHOWN

HUNTINGTON DISTRICT, CORPS OF ENGINEERS, WAR DEPT.
APRIL 1947
SUBMITTED BY [Signature] RECOMMENDED FOR APPROVAL BY [Signature] APPROVED BY [Signature]
ENGINEER BY [Signature] CHECKED BY [Signature] TRANSMITTED WITH LETTER
FILE NO. 027-PM2-68/17 DATED

REVISIONS
MINOR 8-11-53 REVISED AS CONSTRUCTED
MAJOR 8-10-54 SYPHON CHANGED FROM 6" TO 12" & 12"
BY DATE CHARACTER

Note.
All connections for catch basins to be 12" V.P. pipe. All catch basins to be type B

WORK AS CONSTRUCTED

**NOTES**

- Chamfer all exposed edges 1" unless otherwise noted.
- For reinforcing steel, see Dwg. No. 68/19.
- For anchor bolt layout, see Dwg. No. 68/30.
- For details of 22" wall, see Dwg. No. 68/27.
- For location plan, see Dwg. No. 68/17.
- For groove detail, see Dwg. No. 68/24.
- Elevations indicated for backwalls are to top surface of roadway or sidewalk or face of backwall.

**TUSCARAWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO
SECTION 2 - UNIT 1
TREMONT AVENUE VIADUCT
EAST ABUTMENT**

18 37 SHEETS SHEET NO. 12 SCALE: 1" = 1'-0" APRIL 1947
HUNTINGTON DISTRICT, CORPS OF ENGINEERS, WAR DEPT.
ENGINEER: *Wm. L. Lusk* RECOMMENDED FOR APPROVAL: *Wm. Lusk*
TECHNICAL ASSISTANT: *Wm. Lusk* COLONEL, CORPS OF ENGINEERS
DRAWN BY: R.M.C. TRANSMITTED WITH LETTER
CHECKED BY: R.M.C. FILE NO. 0271-PM2-68/18 DATED

DATE	REVISIONS
2-11-48	ELEVATIONS AND DIMENSIONS REVISED TO AGREE WITH SUPERSTRUCTURE DETAILS.
BY DATE	CHARACTER

WORK AS CONSTRUCTED

REINFORCING SCHEDULE

MARK	SIZE	LGTH	BENDING DIAGRAM	NO	UNIT WT	TOTAL WT.
510A	1/2"	4'-0"		41	4.17	171
520A	1/2"	5'-0"		116	5.22	1212
525	1/2"	6'-3"		36	6.32	235
528	1/2"	7'-0"		6	7.30	44
533	1/2"	8'-3"		32	8.60	275
535A	1/2"	8'-9"		51	9.13	466
535B	1/2"	8'-9"		28	9.13	237
550	1/2"	12'-6"		16	13.04	209
551	1/2"	12'-9"		20	13.30	266
562	1/2"	15'-6"		64	16.17	1035
568	1/2"	17'-0"		28	17.73	481
573	1/2"	18'-3"		8	19.03	152
583	1/2"	20'-9"		6	21.64	130
588	1/2"	22'-0"		28	22.95	643
625A	1/2"	6'-3"		58	9.39	545
626A	1/2"	6'-6"		36	9.76	351
636A	1/2"	9'-0"		4	13.32	54
640	1/2"	12'-0"		8	16.02	108
650A	1/2"	12'-6"		40	16.78	751
6119	1/2"	29'-9"		50	44.68	2234
6160	1/2"	40'-0"		2	60.08	120
750A	1/2"	12'-6"		57	25.55	1456
757A	1/2"	14'-3"		57	29.13	1660
830A	1/2"	7'-6"		52	20.03	1042
854	1/2"	13'-6"		20	36.05	937
854A	1/2"	13'-6"		12	36.05	433
858A	1/2"	14'-6"		12	38.72	465
862	1/2"	15'-6"		58	41.39	2401
127	1/2"	6'-9"		12	22.95	275
130A	1/2"	7'-6"		50	25.50	1479
148	1/2"	12'-0"		6	40.00	245
148A	1/2"	12'-0"		57	40.00	2326
161	1/2"	15'-3"		58	51.85	2507
935A	1/2"	8'-9"		22	37.65	828
950A	1/2"	12'-6"		24	53.79	1291
954A	1/2"	13'-6"		26	58.09	1510
037A	1/2"	9'-3"		26	49.15	1278
0120	1/2"	30'-0"		3	159.39	478
0160	1/2"	40'-0"		3	212.52	638
					Total	28718

NOTES

For masonry details, see Dwg. No. 68/18

TUSCARAWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO
SECTION 2 - UNIT 1

TREMONT AVENUE VIADUCT
EAST ABUTMENT - REINFORCING DETAILS.

IN 37 SHEETS SHEET NO. 13 SCALE: 1/2" = 1'-0"

HUNTINGTON DISTRICT, CORPS OF ENGINEERS, WAR DEPT.

APRIL 1947

RECOMMENDED FOR APPROVAL

ENGINEER

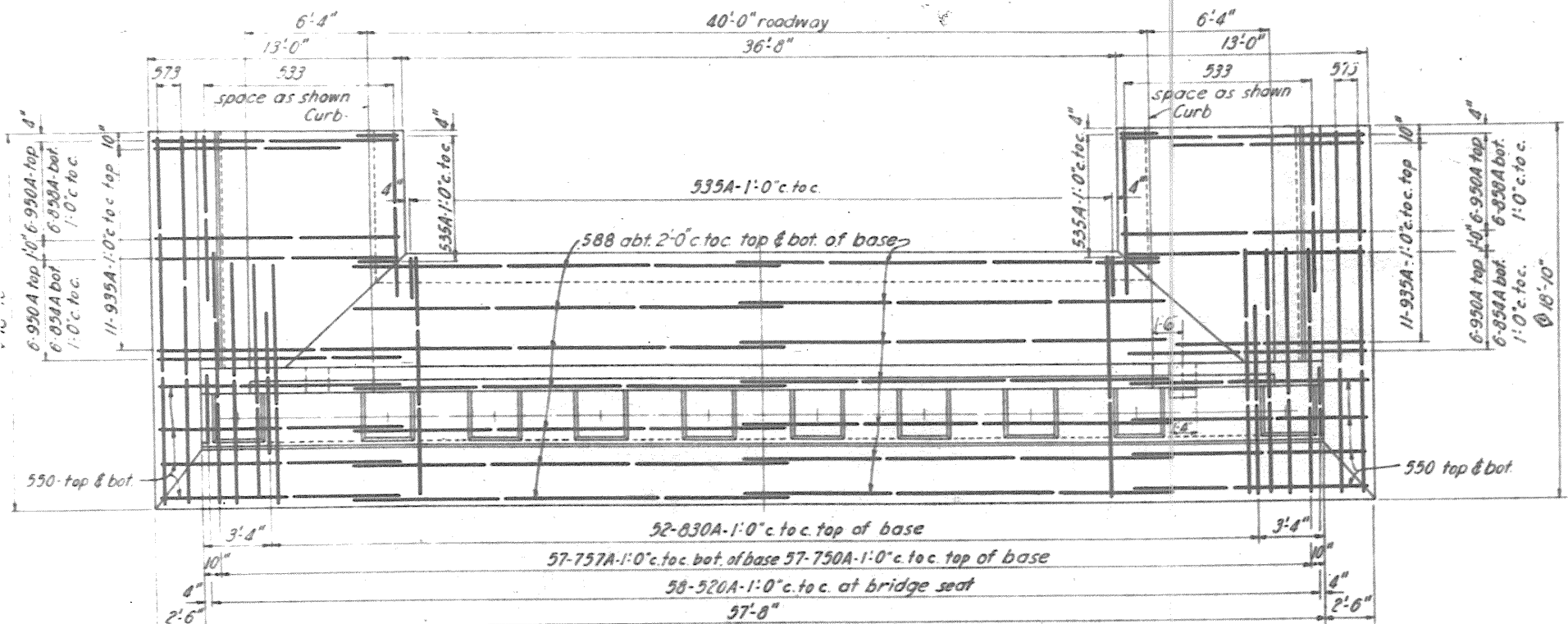
TECHNICAL ASSISTANT

COLONEL, CORPS OF ENGINEERS

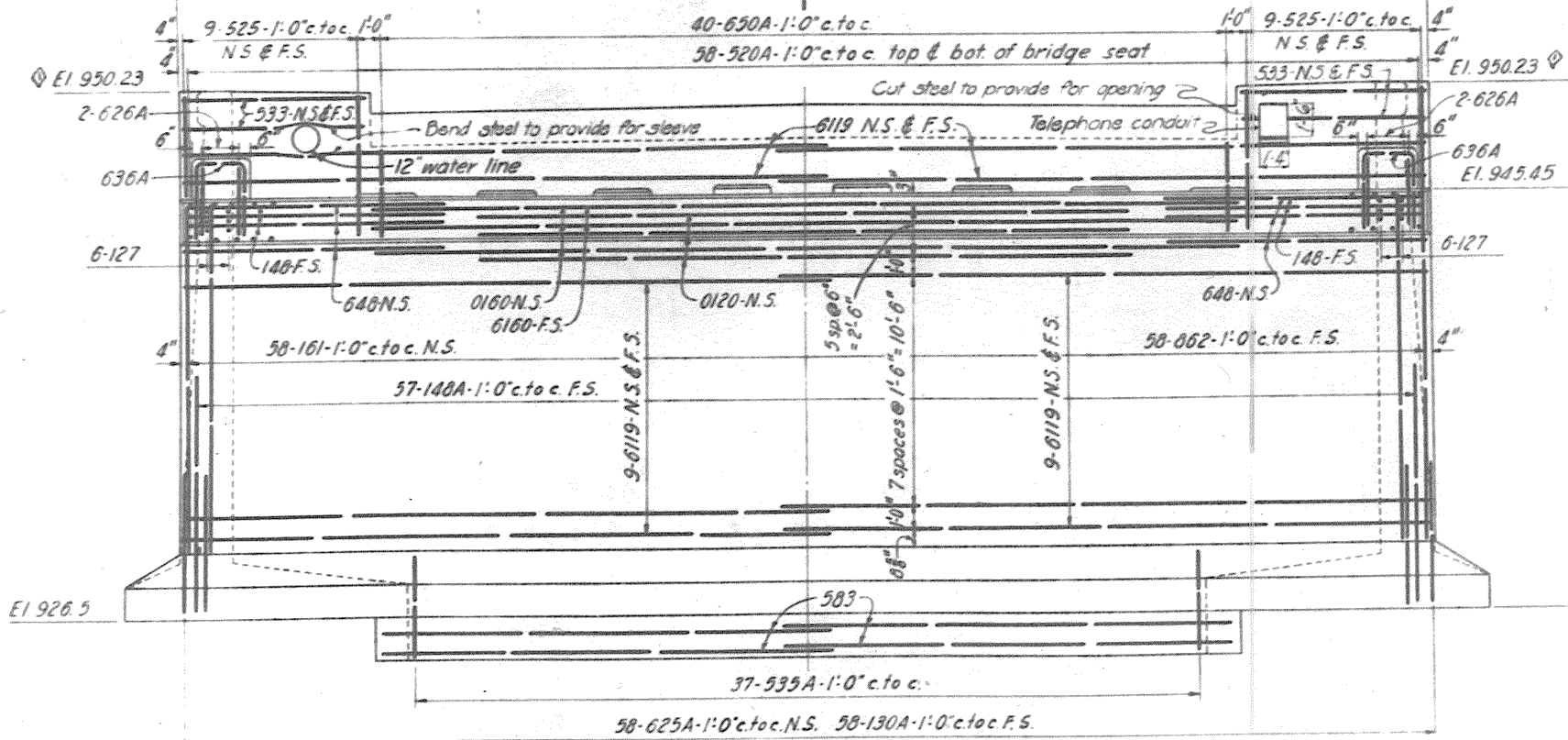
TRANSMITTED WITH LETTER

FILE NO 0271-PM2-68/19 DATED

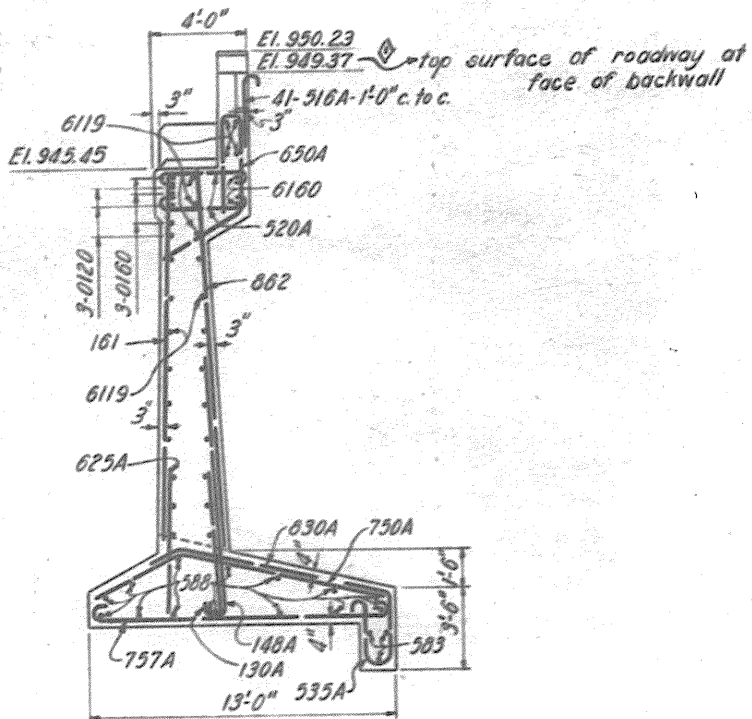
WORK AS CONSTRUCTED



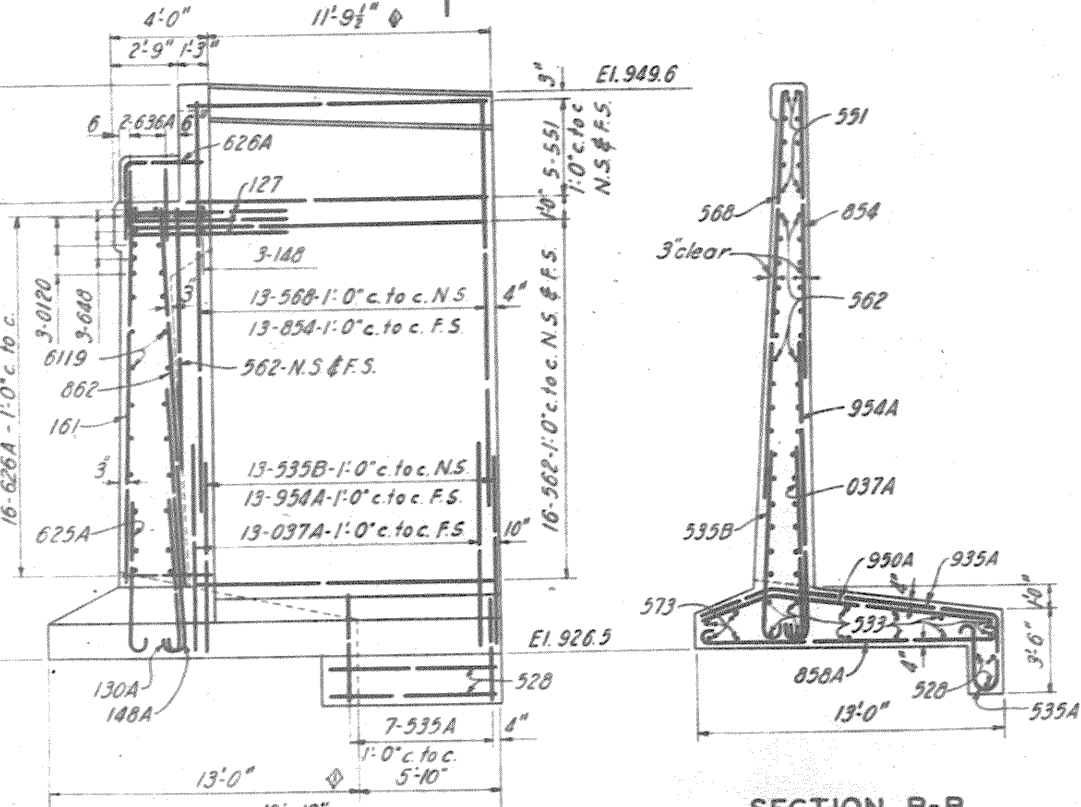
PLAN



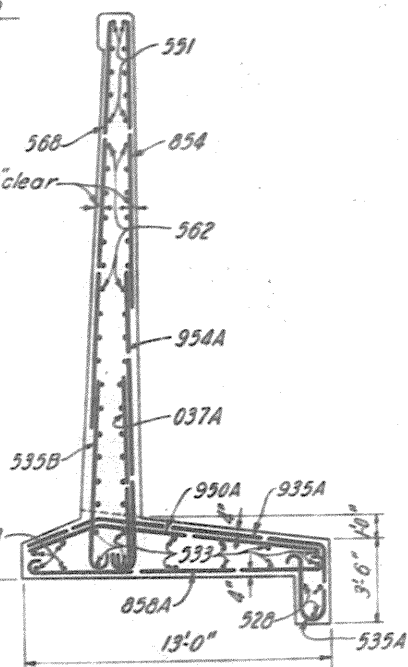
ELEVATION



SECTION A-A

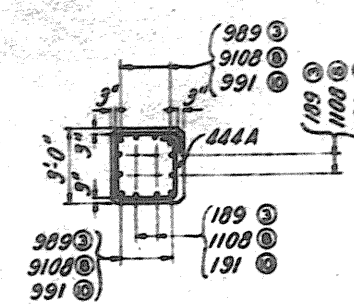
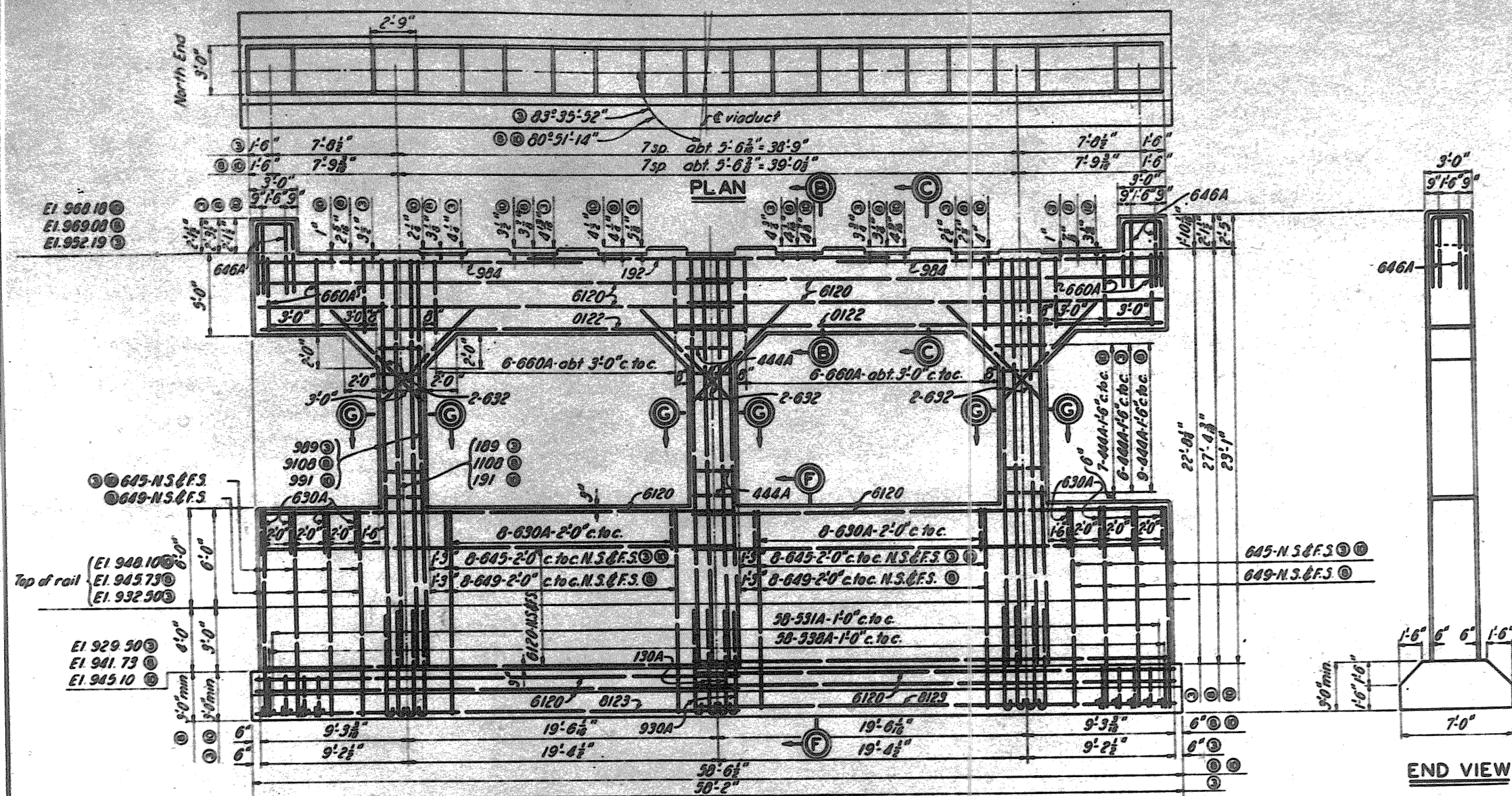


END ELEVATION

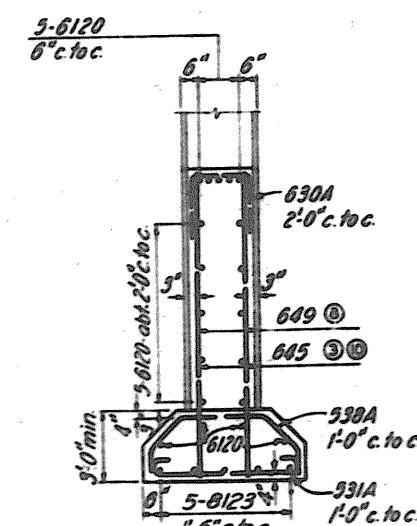


SECTION B-B

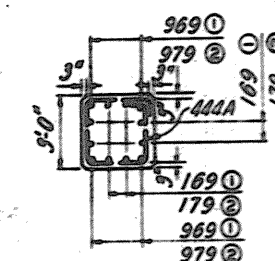
S.B. 2-11-48	ELEVATIONS AND DIMENSIONS REVISED TO AGREE WITH SUPERSTRUCTURE DETAILS.
BY DATE	CHARACTER
REVISIONS	



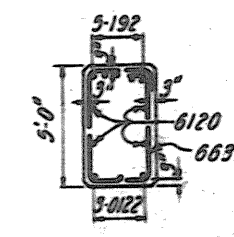
SECTION G-G



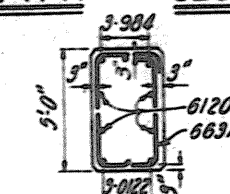
SECTION F-F



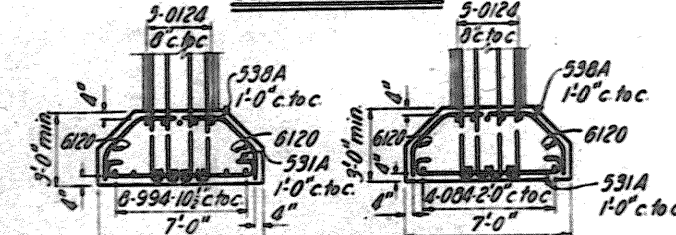
SECTION A-A



SECTION B-B

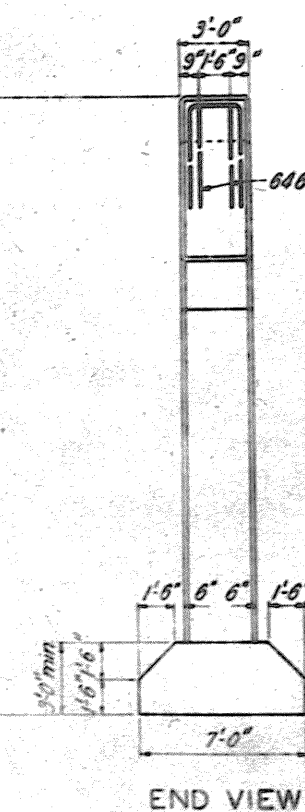


SECTION C-C

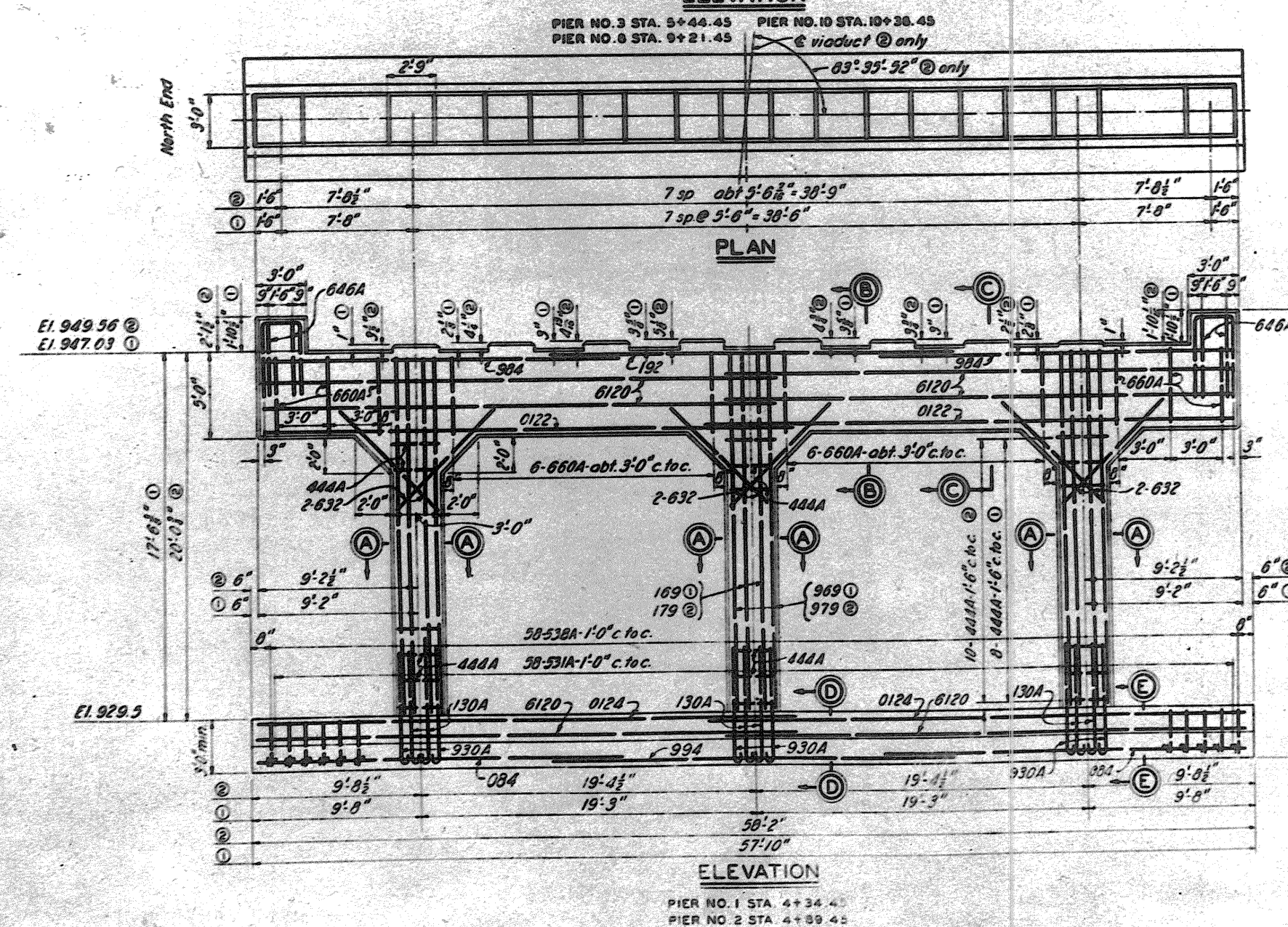


SECTION D-D

SECTION E-E



END VIEW



ELEVATION

REINFORCING SCHEDULE

MARK	SIZE	LGTH	BENDING DIAGRAM	NO REQ'D IN EACH PIER					TOT NO	UNIT WT	TOTAL WT
				NO 1	NO 2	NO 3	NO 4	NO 5			
444A	3/8"	11'-0"		24	30	18	27	21	120	7.95	882
531A	3/8"	7'-9"		30	30	30	30	30	290	8.09	2349
538A	3/8"	9'-6"		30	30	30	30	30	290	9.91	2879
630A	3/8"	7'-0"				24	24	24	72	11.27	811
632	3/8"	8'-0"		12	12	12	12	12	60	12.02	721
645	3/8"	11'-3"				48	48	48	160	16.92	1622
646A	3/8"	11'-6"		8	8	8	8	8	40	17.27	691
649	3/8"	12'-3"						48	48	18.40	885
660A	3/8"	13'-0"		18	18	18	18	18	90	22.53	2028
6120	3/8"	30'-0"		12	12	46	46	46	182	49.65	7301
6123	1"	30'-9"				10	10	10	30	52.0	2643
130A	1"	7'-6"		24	24	24	24	24	120	25.90	3060
189	1"	17'-3"		24					24	58.89	1406
179	1"	19'-9"			24				24	67.15	1612
189	1"	22'-3"				24			24	75.65	1818
191	1"	22'-9"					24		24	77.35	1836
192	1"	23'-0"		5	5	5	5	5	25	78.20	1955
1108	1"	27'-0"					24		24	91.80	2203
930A	1 1/8"	7'-6"		12	12	12	12	12	60	32.27	1936
969	1 1/8"	17'-3"		12					12	74.23	891
979	1 1/8"	19'-3"			12				12	82.83	990
984	1 1/8"	21'-0"		6	6	6	6	6	30	90.36	2711
989	1 1/8"	22'-3"					12		12	95.74	1149
991	1 1/8"	22'-9"						12	12	97.99	1175
994	1 1/8"	23'-6"		8	8				16	101.12	1618
9108	1 1/8"	27'-0"						12	12	118.18	1394
004	1 1/8"	21'-0"		8	8				16	111.57	1785
0122	1 1/8"	30'-6"		6	6	6	6	6	30	162.25	2882
0124	1 1/8"	31'-0"		10	10				20	164.70	3294

Total 58330

NOTES

Chamfer all exposed edges 1" unless otherwise noted
For anchor bolt layout, see Dwg. No. 68/30
For location plan, see Dwg. No. 68/17

**TUSCARAWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO
SECTION 2 - UNIT 1**

**TREMONT AVENUE VIADUCT
PIERS NOS. 1, 2, 3, 8 & 10**

10 37 080570 SHEET 00.14 SCALE: 1" = 1'-0"

1 2 3 4 5 10 APRIL 1942

HUNTINGTON DISTRICT. CORPS OF ENGINEERS. WAR DEPT.

SUBMITTED *for look* RECOMMENDED FOR APPROVAL *for look* APPROVED *G. H. Nelson*

ENGINEER TECHNICAL ASSISTANT COLONEL, CORPS OF ENGINEER

R.M.C. H.A.B. TRANSMITTED WITH LETTERS
H.C.W.

FILE NO 027-PM2-68/20 DATED

WORK AS CONSTRUCTED



NOTES.

Chamfer all exposed edges 1", unless otherwise noted.
For groove details, see Dwg. No. 66/61

**TUSCARAWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO
SECTION 2 - UNIT 1**

**TREMONT AVENUE VIADUCT
PIERS NOS. 4 & 7**

IN 37 SHEETS SHEET NO. 15 SCALE: $\frac{1}{2} = 1' - 0"$

1" 2" 4" 6" 8" 10"

HUNTINGTON DISTRICT. CORPS OF ENGINEERS. WAR DEPT.

SUBMITTED BY *John* RECOMMENDED FOR APPROVAL BY *W. H. Buelow*

ENGINEER TECHNICAL ASSISTANT COLONEL CORPS OF ENGINEERS

DRAWN BY D.C.J. TRANSMITTED WITH LETTER
CHECKED BY W.E.C. GATHERED
FILE NO 0271-PM2-68/21

WORK AS CONSTRUCTED



PLAN

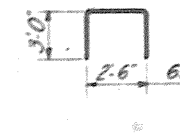
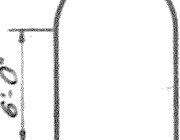
Note: For details of utility
manhole, see Dwg. No. 68/35.



ELEVATION

SECTION A-A

BY	DATE	CHARACTER
		REVISIONS

REINFORCING SCHEDULE									
MARK	SIZE	LGTH	BENDING DIAGRAM			NO	UNIT WT.	TOTAL WT.	
620	$\frac{3}{8}$ "	5'-0"				118	7.51	886	
634A	$\frac{3}{8}$ "	8'-6"				28	12.77	358	
664A	$\frac{3}{8}$ "	16'-0"				6	24.03	144	
665A	$\frac{3}{8}$ "	16'-3"				4	24.41	98	
667A	$\frac{3}{8}$ "	16'-9"				6	25.16	151	
668A	$\frac{3}{8}$ "	17'-0"				4	25.53	102	
670A	$\frac{3}{8}$ "	17'-0"				6	26.29	158	
672A	$\frac{3}{8}$ "	18'-0"				4	27.04	108	
673A	$\frac{3}{8}$ "	18'-3"				6	27.41	164	
675A	$\frac{3}{8}$ "	18'-9"				4	28.16	113	
683	$\frac{3}{8}$ "	20'-9"				128	31.17	3990	
6100	$\frac{3}{8}$ "	25'-0"				80	37.56	3005	
6120	$\frac{3}{8}$ "	30'-0"				2	45.06	90	
						Total		9367	
620	$\frac{3}{8}$ "	5'-0"				118	7.51	886	
634A	$\frac{3}{8}$ "	8'-6"				28	12.77	358	
664A	$\frac{3}{8}$ "	16'-0"				6	24.03	144	
665A	$\frac{3}{8}$ "	16'-3"				4	24.41	98	
667A	$\frac{3}{8}$ "	16'-9"				6	25.16	151	
668A	$\frac{3}{8}$ "	17'-0"				4	25.53	102	
670A	$\frac{3}{8}$ "	17'-6"				6	26.29	158	
672A	$\frac{3}{8}$ "	18'-0"				4	27.04	108	
673A	$\frac{3}{8}$ "	18'-3"				6	27.41	164	
675A	$\frac{3}{8}$ "	18'-9"				4	28.16	113	
676A	$\frac{3}{8}$ "	19'-0"				4	28.54	114	
692	$\frac{3}{8}$ "	23'-0"				128	34.55	4422	
6100	$\frac{3}{8}$ "	25'-0"				88	37.17	3271	
6120	$\frac{3}{8}$ "	30'-0"				2	45.06	90	
						Total		94179	

NOTES

Chamfer all exposed edges 1" unless otherwise noted
For groove details, see Dwg No 66/61.

**TUSCARAWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO
SECTION 2 - UNIT 1**

TREMONT AVENUE VIADUCT
PIERS NOS. 5 & 6

IN 37 SHEETS SHEET NO. 16 SCALE: $\frac{1}{2}$ = 1'-0"

APRIL 1947

HUNTINGTON DISTRICT. CORPS OF ENGINEERS. WAR DEPT.

SUBMITTED BY *Wm. W. Jones* RECOMMENDED BY *Wm. W. Jones* APPROVED BY *Wm. W. Jones*

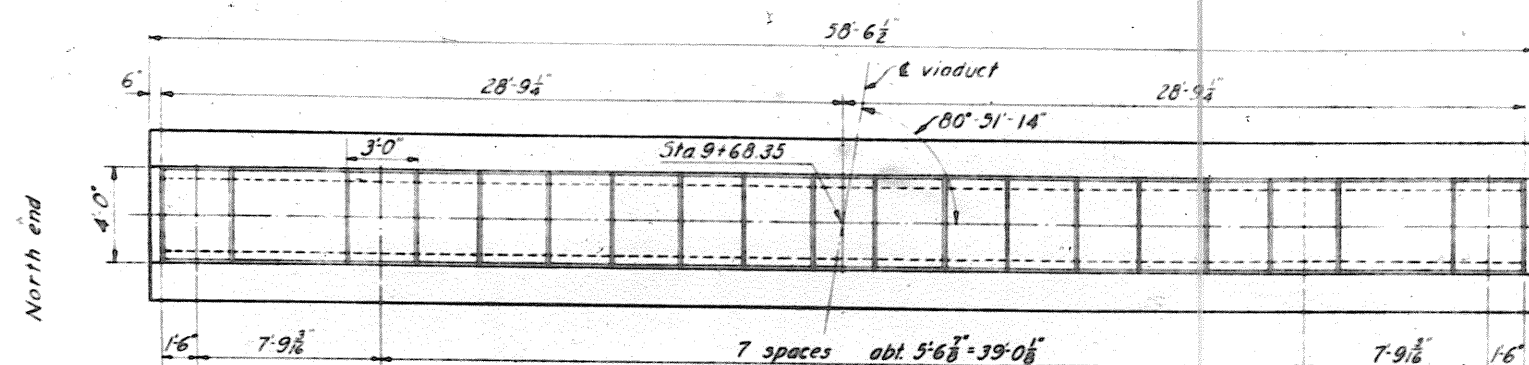
ENGINEER TECHNICAL ASSISTANT COLONEL, CORPS OF ENGINEERS

DESIGNED BY E. S. W. TRANSMITTED WITH LETTERS

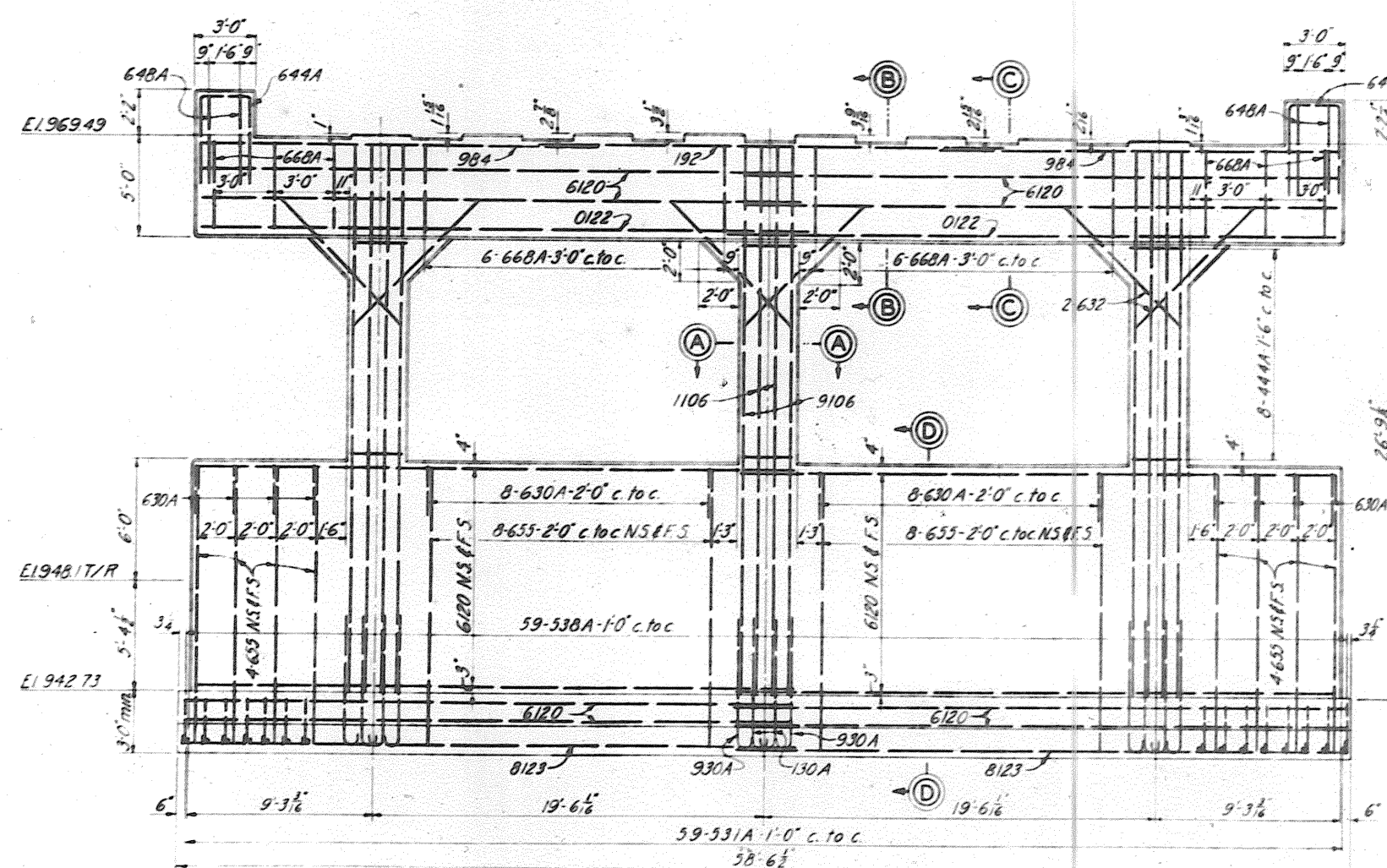
CHECKED BY R. C. H. DATED

APPROVED BY H. O. W. FILE NO 0271-PM2-68/22

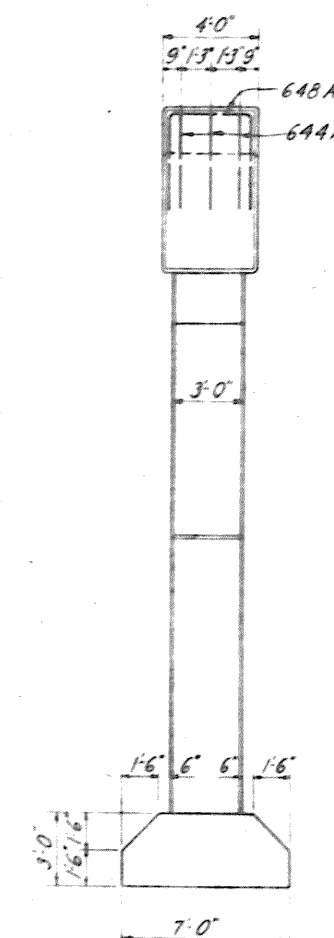
WORK AS CONSTRUCTED



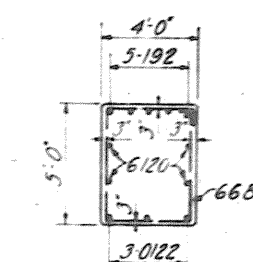
PLAN



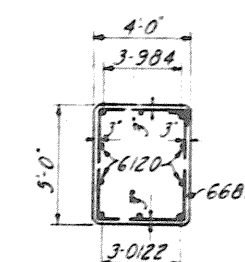
ELEVATION



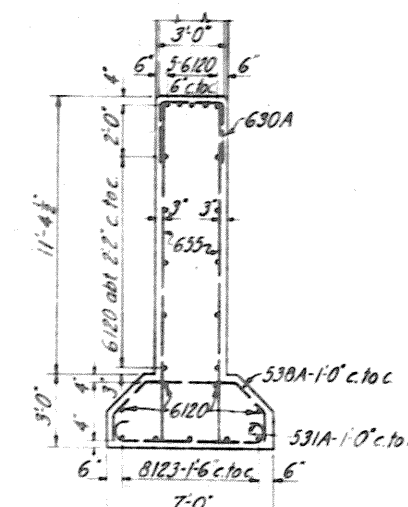
END VIEW



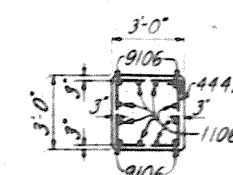
SECTION B-B



SECTION C-C



SECTION D-D



SECTION A-A

REINFORCING SCHEDULE

MARK	SIZE	LGTH	BENDING DIAGRAM	NO	WT	TOTAL WT
444A	1/2"	11'-0"	6'-4"	24	7.35	176
531A	1/2"	7'-9"	6'-4"	59	8.08	477
538A	1/2"	3'-6"	6'-4"	59	9.91	585
630A	1/2"	7'-6"	6'-5"	24	11.27	270
632	1/2"	8'-0"	6'-5"	12	12.02	144
644A	1/2"	11'-0"	6'-5"	6	16.52	99
648A	1/2"	12'-0"	6'-5"	4	18.02	72
655	1/2"	13'-9"	6'-5"	48	20.65	991
668A	1/2"	17'-0"	6'-4"	18	25.53	460
6120	1/2"	30'-0"	6'-4"	46	45.06	2073
8123	1/2"	30'-9"	6'-4"	10	79.43	794
130A	1/2"	7'-6"	6'-4"	24	25.50	612
192	1/2"	23'-0"	6'-4"	5	78.20	391
1106	1/2"	26'-6"	6'-4"	24	90.10	2162
930A	1/2"	7'-6"	6'-4"	12	32.27	387
984	1/2"	21'-0"	6'-4"	6	90.36	542
9106	1/2"	26'-6"	6'-4"	12	114.03	1368
0122	1/2"	30'-6"	6'-4"	6	162.05	972
						Total 12,575

NOTES

Chamfer all exposed edges unless otherwise noted.
For anchor bolt layout, see Dwg. No. 68/30.
For location plan, see Dwg. No. 68/17.

**TUSCARAWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO
SECTION 2 - UNIT 1
TREMONT AVENUE VIADUCT
PIER NO. 9**

IN 37 SHEETS SHEET NO. 17 SCALE: 1/4" = 1'-0"
APRIL 1947
HUNTINGTON DISTRICT, CORPS OF ENGINEERS, WAR DEPT.
SUBMITTED BY: [Signature] RECOMMENDED FOR APPROVAL: [Signature] APPROVED: [Signature]
ENGINEER: [Signature] L.D.C. COLONEL, CORPS OF ENGINEERS
DRAWN BY: W.E.C. TRANSMITTED WITH LETTERS
CHECKED BY: H.O.A. FILE NO. 0271-PM2-68/23 DATED

BY	DATE	CHARACTER
		REVISIONS

WORK AS CONTRACTED



Diagram of a three-span continuous beam with dimensions and loads:

- Span 1: 5'-11" (Left span)
- Span 2: 4'-9" (Middle span)
- Span 3: 4'-3" (Right span)
- Supports: 646 (Left support), 646 (Middle support), 642 (Right support)
- Dimensions: 1'-3" (Top left), 2'-0" (Top middle), 2'-0" (Top right)



Chamfer all exposed edges 1" unless otherwise noted.
For anchor bolt layout, see Dwg. No 66/30.
For details of 16 foot wall, see Dwg. No 66/27.
For location plan, see Dwg. No 66/17.
Elevations indicated for backwalls are to top
surface of roadway or sidewalk at face of backwall.



10 37 SHEETS SHEET NO. 18 SCALE: 1" = 10'

APRIL 1947

HUNTINGTON DISTRICT. CORPS OF ENGINEERS. WAR DEPT.

SUBMITTED *for Cook* RECOMMENDED FOR APPROVAL *Dean Farness* APPROVED *W. H. Redman*

ENGINEER TECHNICAL ASSISTANT COLONEL, CORPS OF ENGINEERS

DRAWN BY: R. M. C.
CHECKED BY: E. B. H.
FILE NO 0271-PM2-68/24

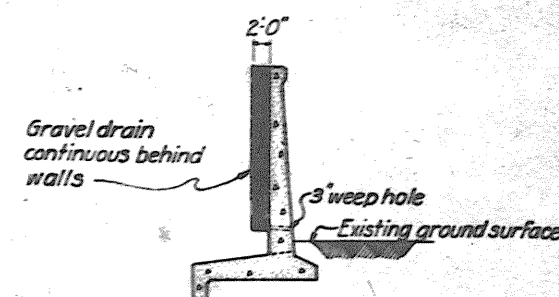
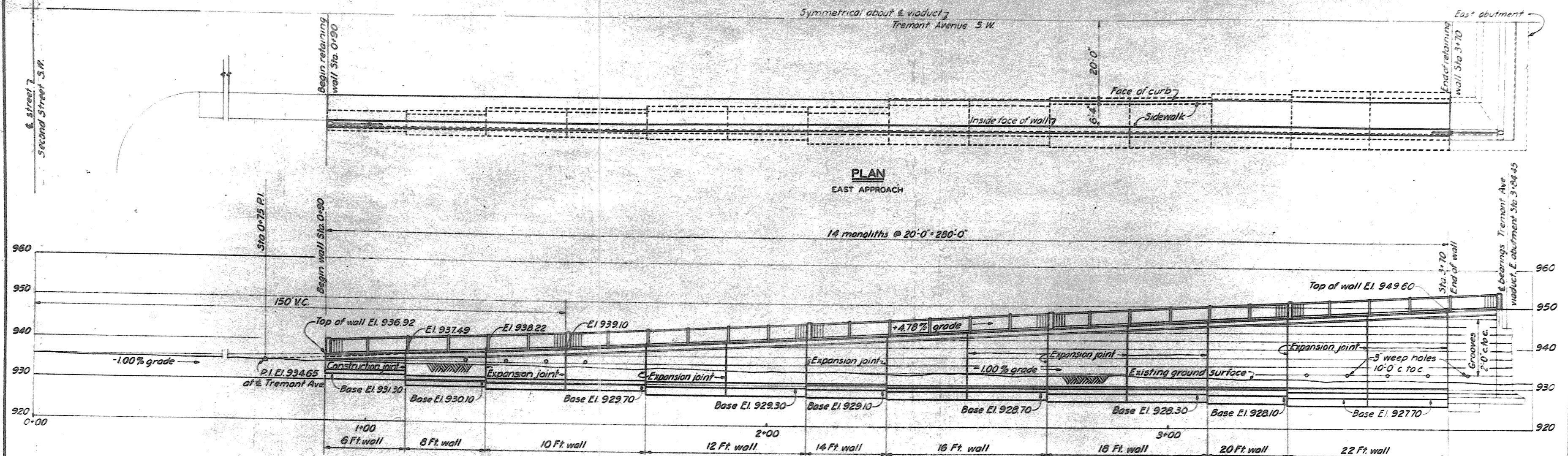
TRANSMITTED WITH LETTER

10 37 SHEETS SHEET NO. 19 SCALE: $\frac{1}{4} = 1'-0"$

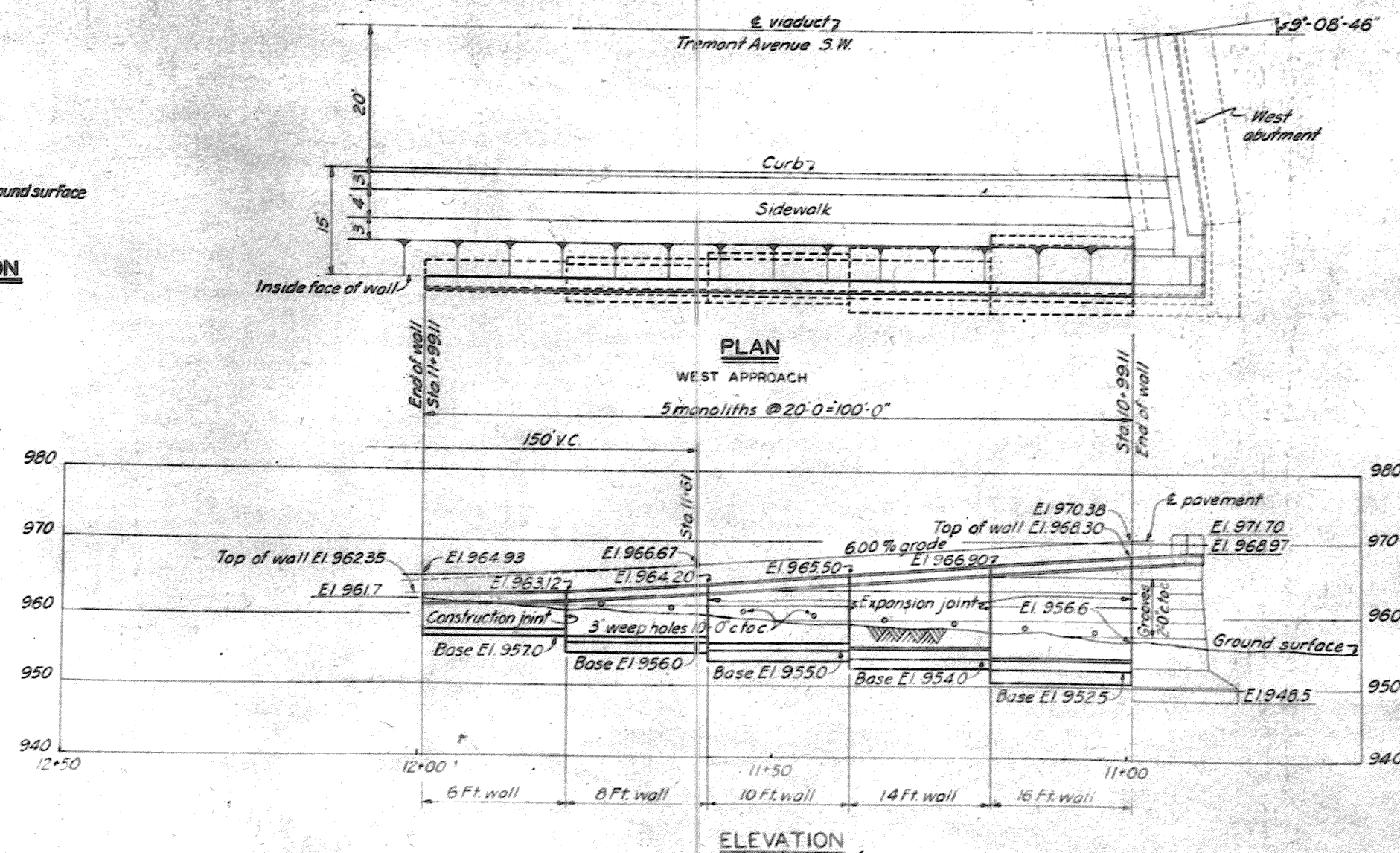
2' 0" 2' 4' 6' 8' 10'

APRIL 1947

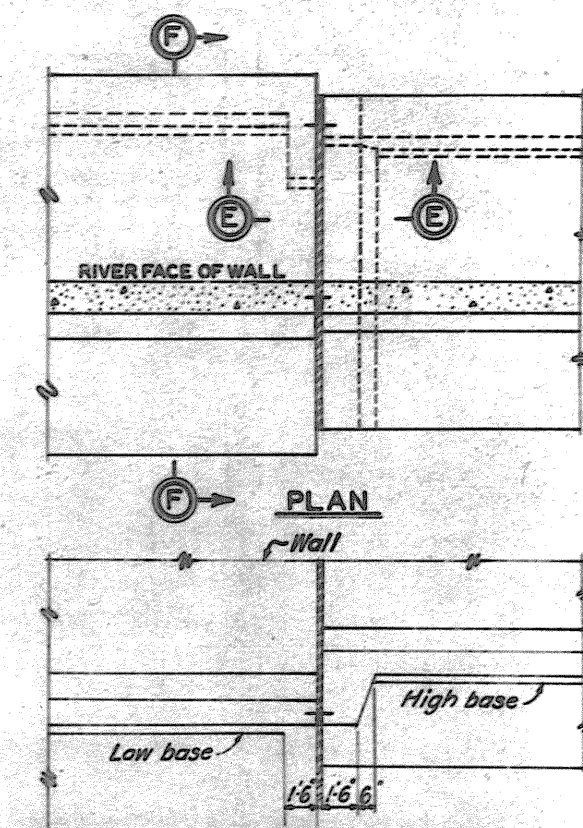
WORK AS CONSTRUCTED



TYPICAL WALL SECTION



ELEVATION



SECTION F-F

SECTION E-E

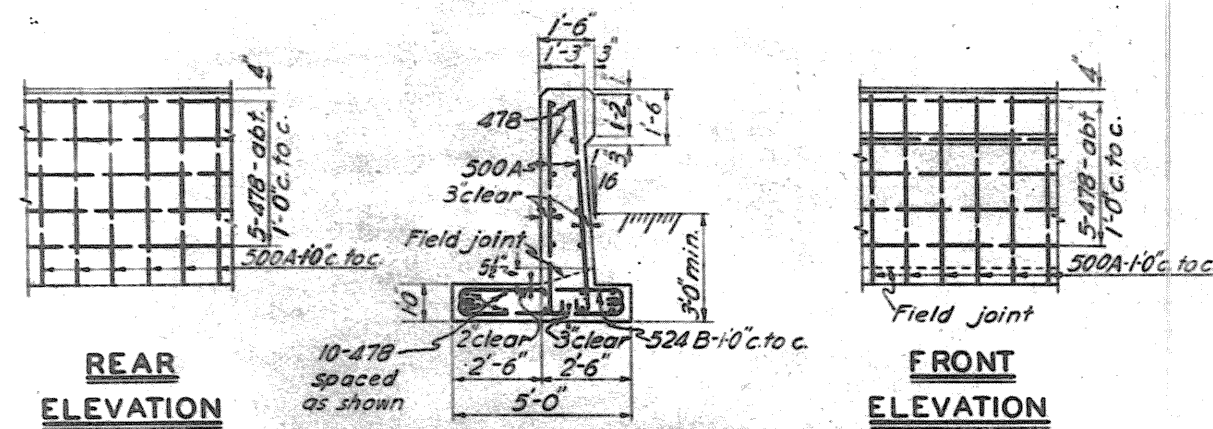
NOTES

For details of wall, see Dwg. Nos. 68/26, 68/27
For railing details, see Dwg. No. 68/33
For east abutment, see Dwg. No. 68/18
For west abutment, see Dwg. No. 68/24
For location plan, see Dwg. No. 68/17
For groove detail, see Dwg. No. 68/24

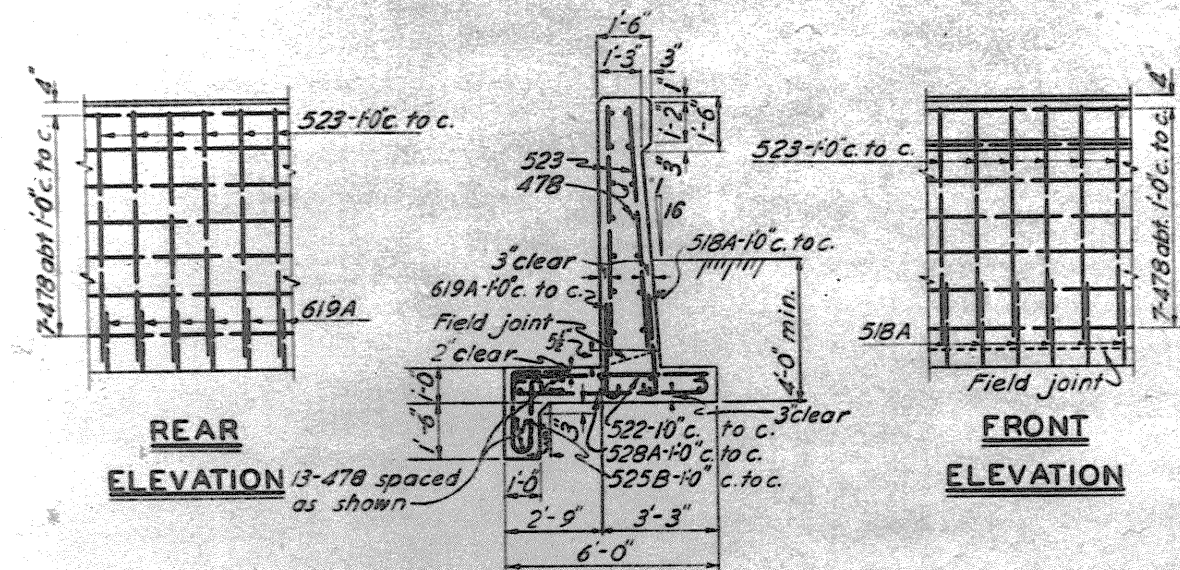
TUSCARAWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO
SECTION 2 - UNIT 1
TREMONT AVENUE VIADUCT
RETAINING WALL - LAYOUT

10 37 SHEETS SHEET NO. 10 SCALE: 1" = 10'-0" APRIL 1947
HUNTINGTON DISTRICT, CORPS OF ENGINEERS, WAR DEPT.
SUGGESTED FOR APPROVAL
ENGINEER R. M. C. TECHNICAL ASSISTANT
DRAWN BY J. E. MCL. CHECKED BY H. G. W. FILE NO. 0271-PM2-68/25 DATED
TRANSMITTED WITH LETTERS

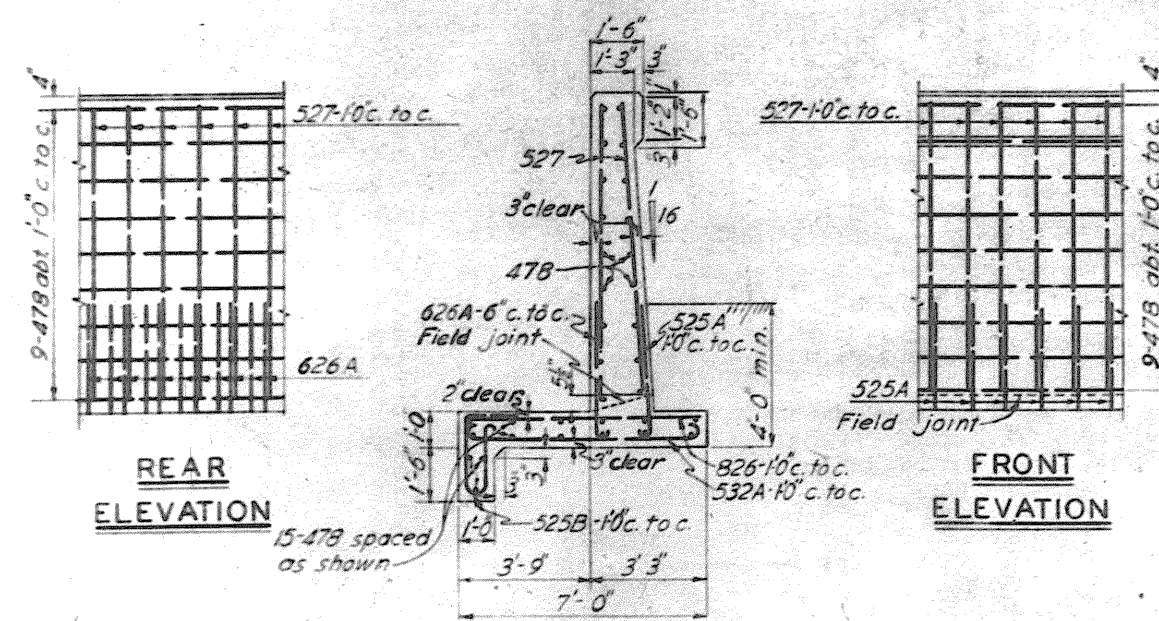
WORK AS CONSTRUCTED



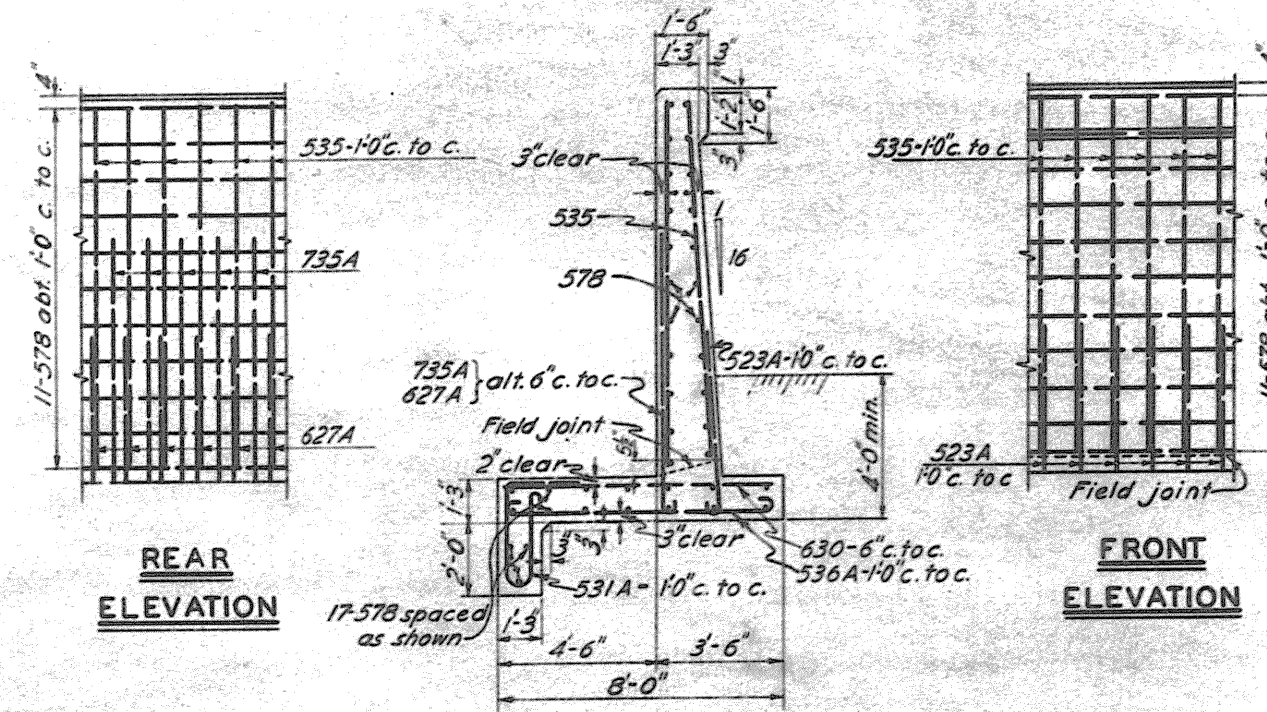
TYPICAL 6-FOOT WALL



TYPICAL 8-FOOT WALL

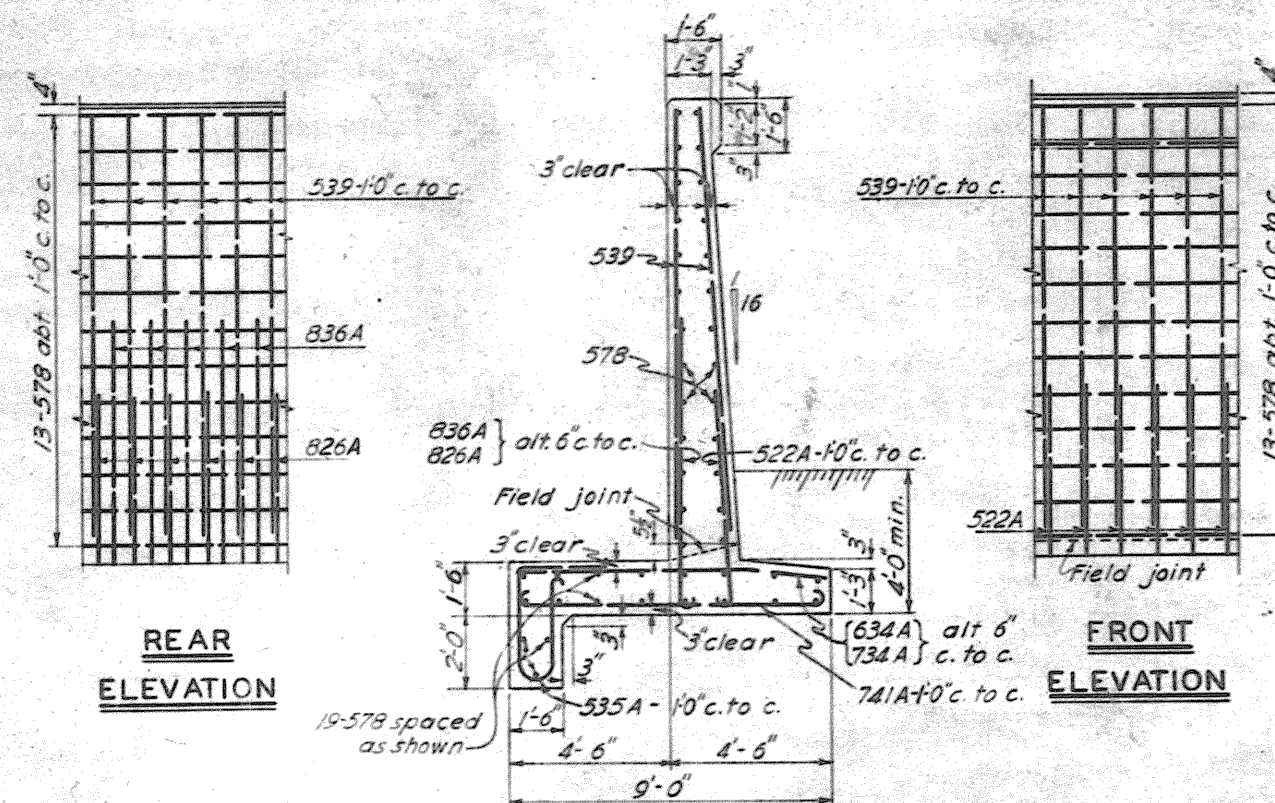


TYPICAL 10-FOOT WALL



TYPICAL 12-FOOT WALL

WALL HEIGHT	NO. REQ'D.
6 foot wall	3
8 foot wall	3
10 foot wall	5
12 foot wall	4
14 foot wall	3



TYPICAL 14-FOOT WALL

NOTES

Reinforcing steel shown is quantity required for one 20'-0" monolith. For number of monoliths, see schedule. Carry vertical steel in stem to 4' from top of wall and vary laps or cut to compensate for grade. Give horizontal steel equal spacing at each end of monolith. For location of walls, see Dwg. No. 68/25. For typical expansion joint, see Dwg. No. 68/25

REINFORCING SCHEDULE

6- FOOT WALL

MARK	SIZE	LGTH	BENDING DIAGRAM	NO.	UNIT WT	TOTAL WT.
478	# 8	19'-6"		20	13.03	261
508A	# 8	250 lin ft			1.04	260
524B	# 8	6'-0"		40	6.25	250
				Total		771

8- FOOT WALL

478	# 8	19'-6"		27	13.03	352
518A	# 8	4'-6"		20	4.69	94
522	# 8	5'-6"		20	5.74	115
523	# 8	5'-9"		40	6.20	240
525B	# 8	6'-3"		20	6.52	130
528A	# 8	7'-0"		20	7.30	146
619A	# 8	4'-9"		20	7.13	143
				Total		1220

10-FOOT WALL

478	# 8	19'-6"		33	13.03	430
525A	# 8	6'-3"		20	6.52	130
525B	# 8	6'-3"		20	6.52	130
527	# 8	6'-9"		40	7.04	283
532A	# 8	8'-0"		20	8.34	167
626A	# 8	6'-6"		40	9.76	390
826	# 8	6'-6"		20	17.35	347
				Total		1877

12-FOOT WALL

523A	# 8	5'-9"		20	6.00	120
531A	# 8	7'-9"		20	8.08	162
535	# 8	8'-9"		40	9.13	365
536A	# 8	9'-0"		20	9.59	189
578	# 8	19'-6"		39	20.34	793
627A	# 8	6'-9"		20	10.14	203
630	# 8	7'-6"		40	11.27	451
735A	# 8	8'-9"		20	7.89	358
				Total		2540

14- FOOT WALL

522A	# 8	5'-6"		20	5.74	115
535A	# 8	8'-9"		20	9.13	183
539	# 8	9'-9"		40	10.17	407
578	# 8	19'-6"		45	20.34	916
634A	# 8	8'-6"		20	12.77	255
734A	# 8	6'-6"		20	17.37	347
741A	# 8	10'-3"		20	20.95	419
826A	# 8	6'-6"		20	17.35	347
836A	# 8	9'-0"		20	24.03	481
				Total		3493

**TUSCARAWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO
SECTION 2 - UNIT 1**

TREMONT AVENUE VIADUCT
RETAINING WALL - TYPICAL SECTIONS

IN 37 SHEETS SHEET NO. 20 SCALE: $\frac{1}{8}'' = (-) 1'$

APRIL 1947

WINSTON-SALEM DISTRICT CORPS OF ENGINEERS WAR DEPT.

HUNTINGTON DISTRICT, CORPS OF ENGINEERS, WAR DEPT.

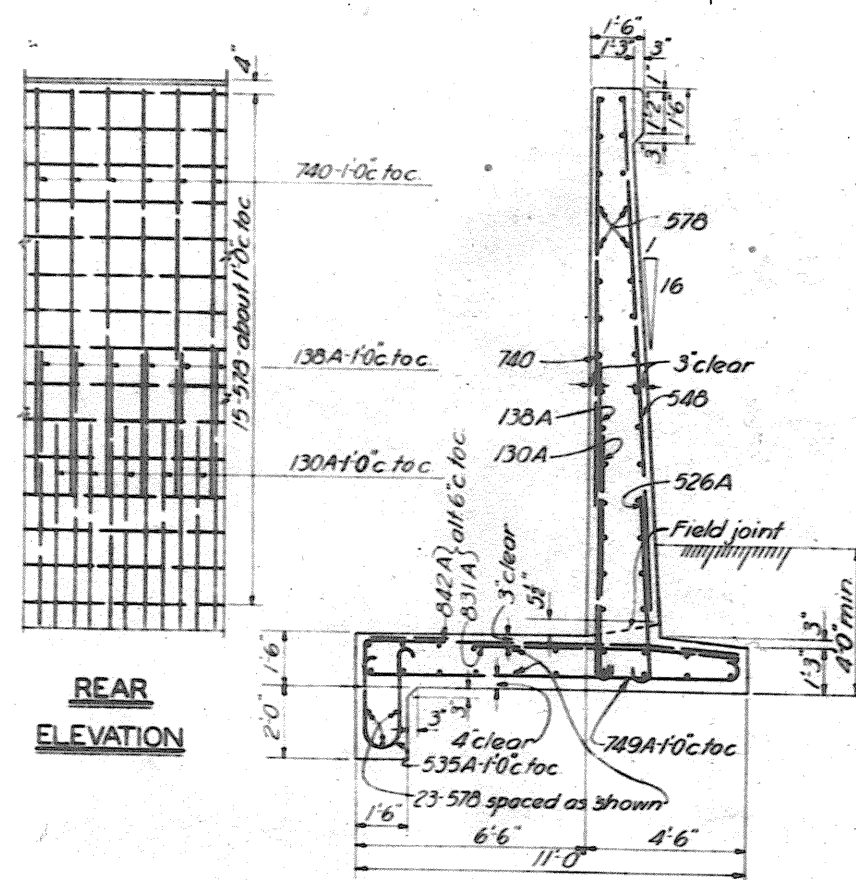
John L. ... *Ben ...* *Q. M. ...*
COLONEL CORPS OF ENGINEERS

ENGINEER TECHNICAL ASSISTANT COLONEL CORPS OF ENGINEERS
DRAWN BY: F.R.G. TRANSMITTED WITH LETTER

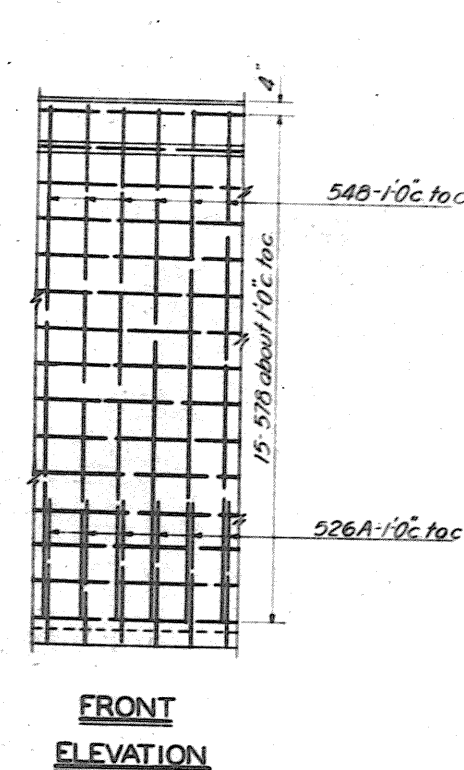
FILE NO 027i-PM2-68/26

RECEIVED BY AIR MAIL NOV 27 1963

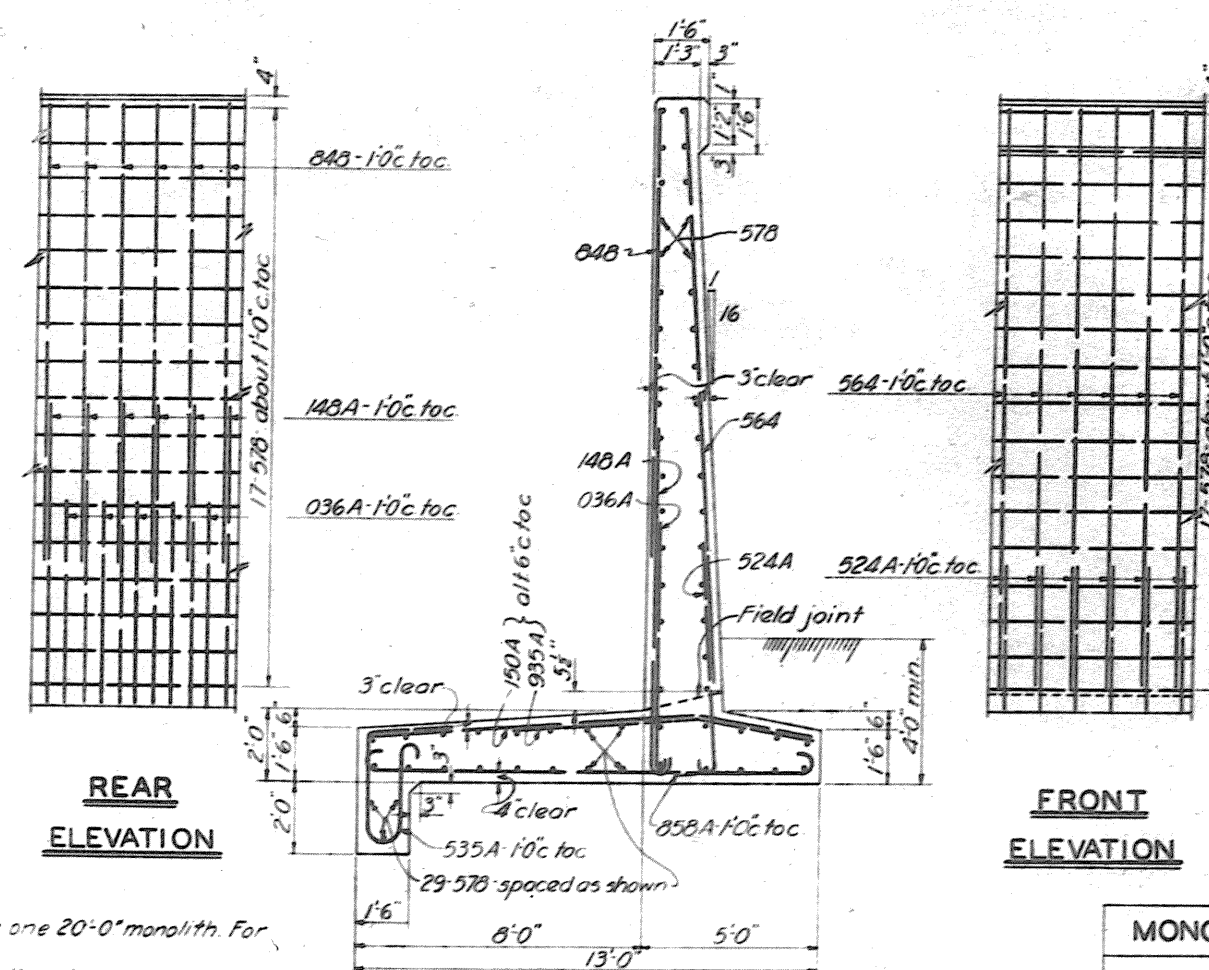
WORK AS CONSTRUCTED



TYPICAL 16-FOOT WALL



FRONT
ELEVATION



TYPICAL 20-FOOT WALL

NOTES

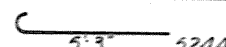
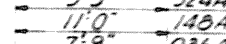


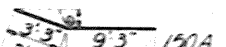
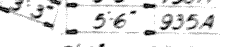
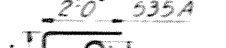



Reinforcing steel shown is quantity required for one 20'-0" monolith. For number of monoliths, see schedule.
Carry vertical steel in stem to 4" from top of wall and vary laps or cut to compensate for grade. Give horizontal steel equal spacing at each end of monolith.
For location of walls, see Dwg. No. 68/25.
For typical expansion joint, see Dwg. No. 66/25.

MONOLITH SCHEDULE	
WALL HEIGHT	NO REQ'D
16 Foot Wall	5
13 Foot Wall	4
20 Foot Wall	2
22 Foot Wall	4

REINFORCING SCHEDULE				
16- FOOT WALL				
MARK	SIZE	L'GTH	BENDING DIAGRAM	NO UNIT WT. TOTAL WT.
526A	8 [#]	6'-6"		20 6.75 136
535A	8 [#]	8'-9"		20 9.13 183
545	8 [#]	12'-0"		20 12.52 250
570	8 [#]	19'-6"		53 20.34 1078
740	8 [#]	10'-0"		20 20.44 409
749A	8 [#]	12'-3"		20 25.04 501
831A	1 [#]	7'-9"		20 20.69 414
842A	1 [#]	10'-6"		20 28.04 561
130A	1 [#]	7'-6"		20 25.50 510
130A	1 [#]	9'-6"		20 32.30 646
				Total 4683

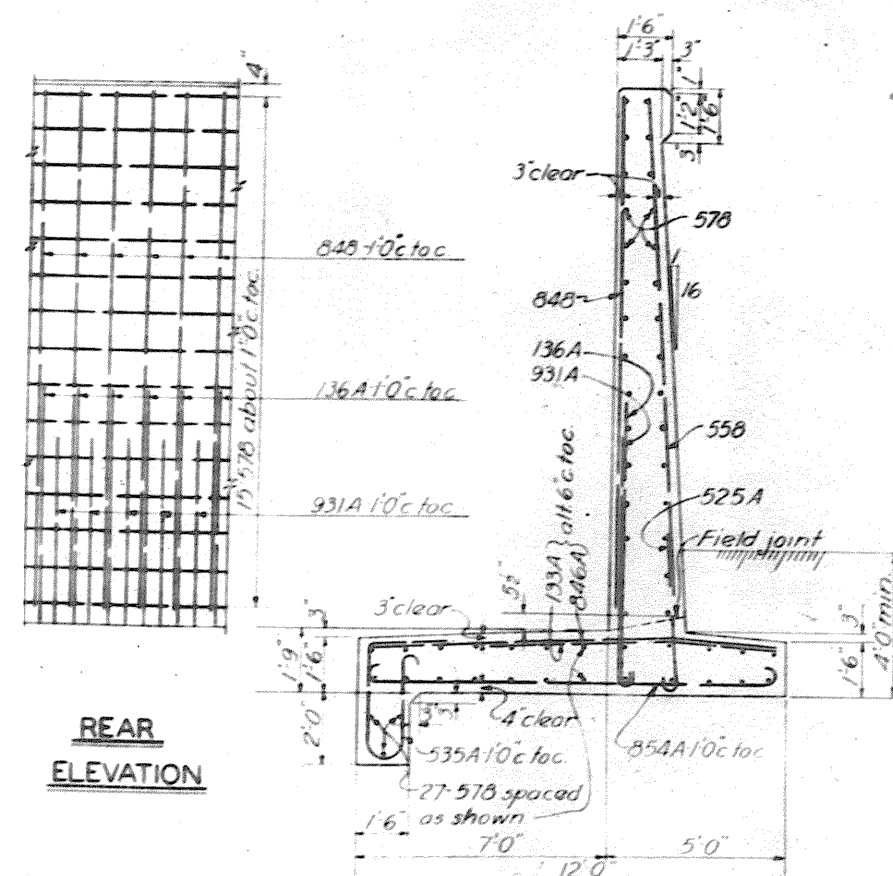
18-FOOT WALL			
525A	3'0"	6'3"	
535A	3'0"	8'9"	
556	3'0"	14'0"	
576	3'0"	19'6"	
540	1'0"	12'0"	
546A	1'0"	11'6"	
554A	1'0"	13'6"	
133A	1'0"	0'3"	
136A	1'0"	9'0"	
931A	1/8"	7'9"	

20-FOOT WALL

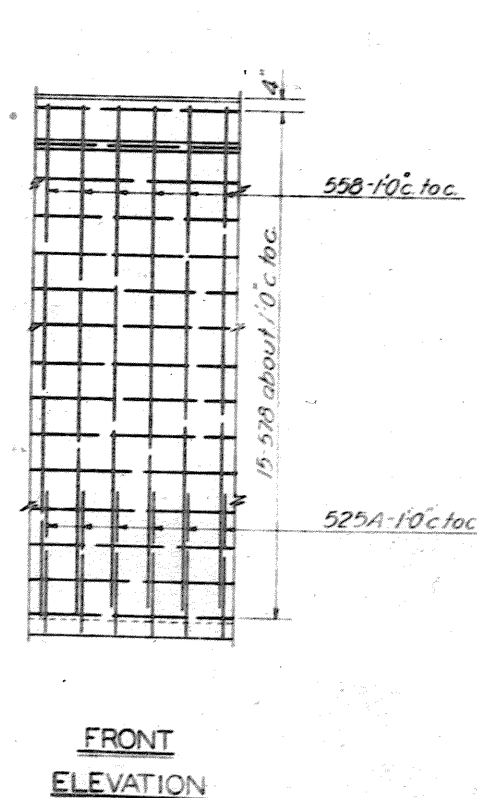
524A	6'-0"		20	626	125
535A	8'-9"		20	913	183
564	16'-0"		20	1669	334
578	19'-6"		63	2034	1291
548	1'-0"		20	3204	641
550A	1'-0"		20	3872	774
148A	1'-0"		20	4080	816
150A	1'-0"		20	4250	850
935A	16'-0"		20	3315	663
036A	1'-0"		20	4782	956
Total					6623

22-FOOT WALL

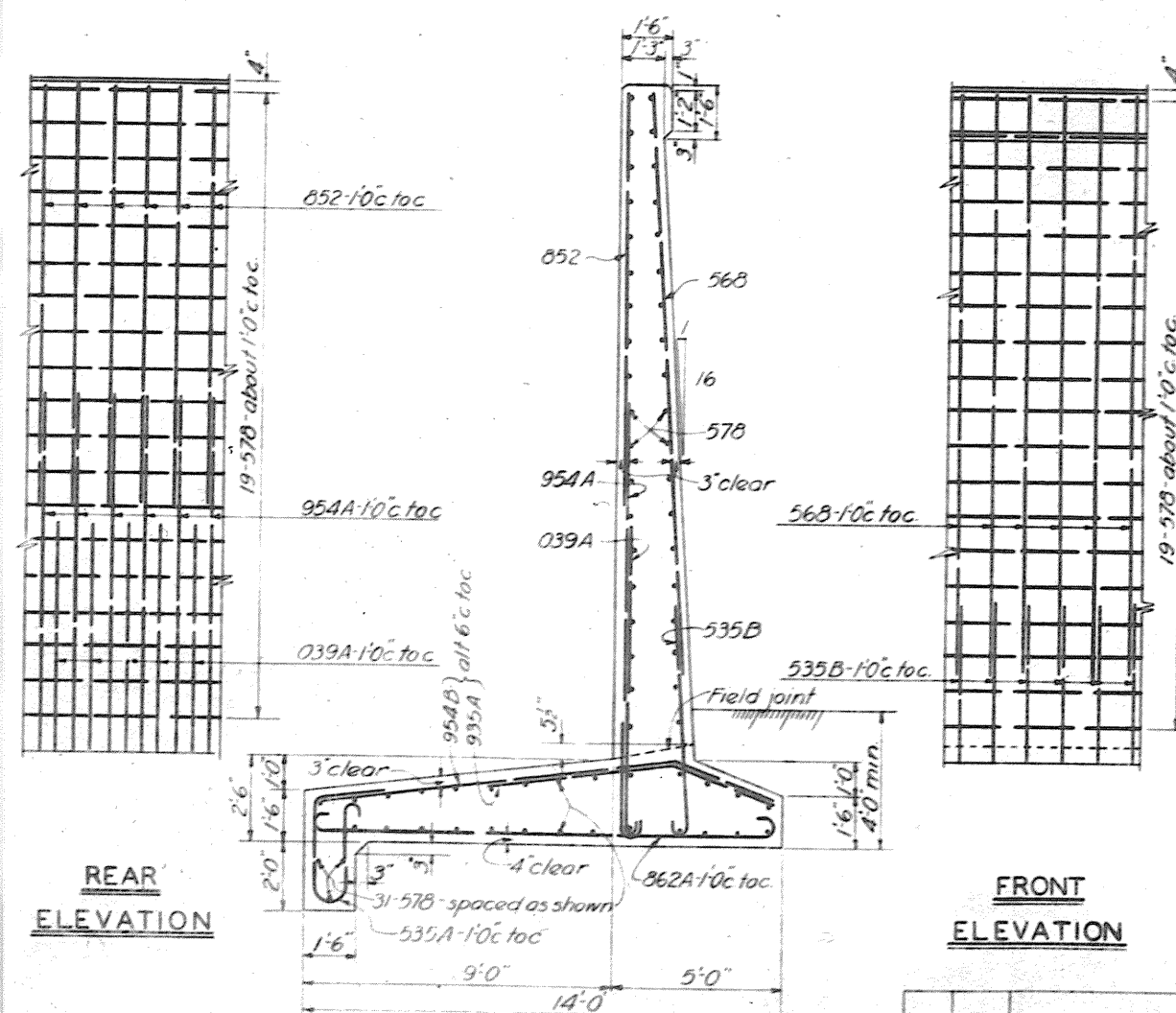
535A	8' 9"	20	9/13	103
535B	8' 9"	20	9/13	103
563	17' 0"	20	17/3	355
578	19' 6"	69	20/34	1403
552	13' 0"	20	34/71	694
562A	15' 6"	20	41/39	828
935A	8' 9"	20	37/65	753
954A	13' 6"	20	58/09	1162
954B	13' 6"	20	58/09	1162
039A	9' 9"	20	51/80	1036
		Total		7754



TYPICAL 18-FOOT WALL



FRONT
ELEVATION



TYPICAL 22-FOOT WALL

**TUSCARAWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO
SECTION 2 - UNIT 1**

TREMONT AVENUE VIADUCT
RETAINING WALL - TYPICAL SECTIONS

IN 37 SHEETS SHEET NO. 21 SCALE: 3/8"=1'-0"

APRIL 1947

HUNTINGTON DISTRICT, CORPS OF ENGINEERS. WAR DEPT.

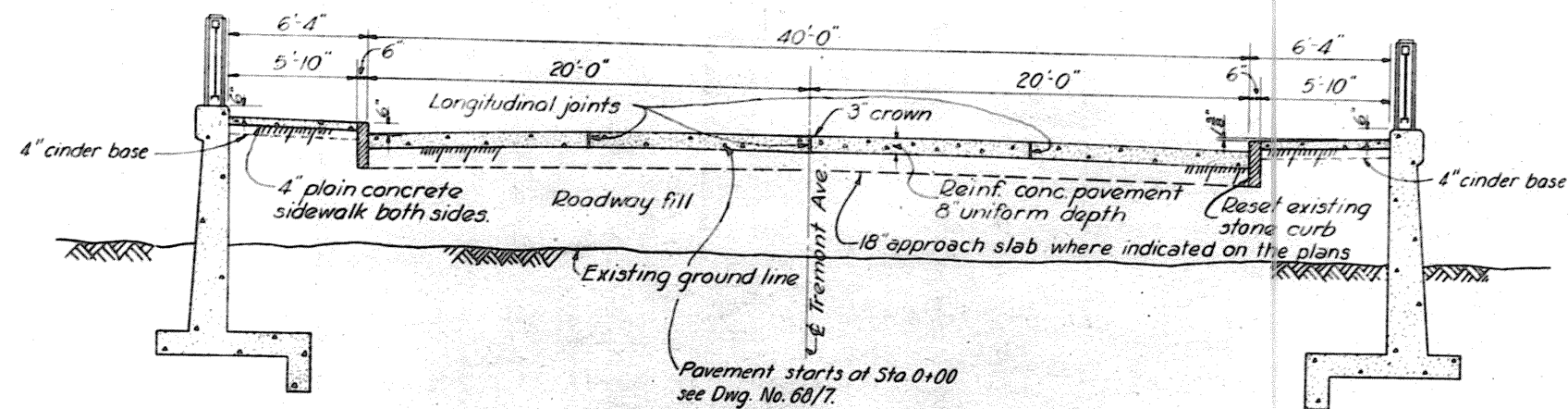
SUBMITTED BY *John* RECOMMENDED FOR APPROVAL APPROVED BY *W. C. ...*

ENGINEER TECHNICAL ASSISTANT COLONEL, CORPS OF ENGINEERS

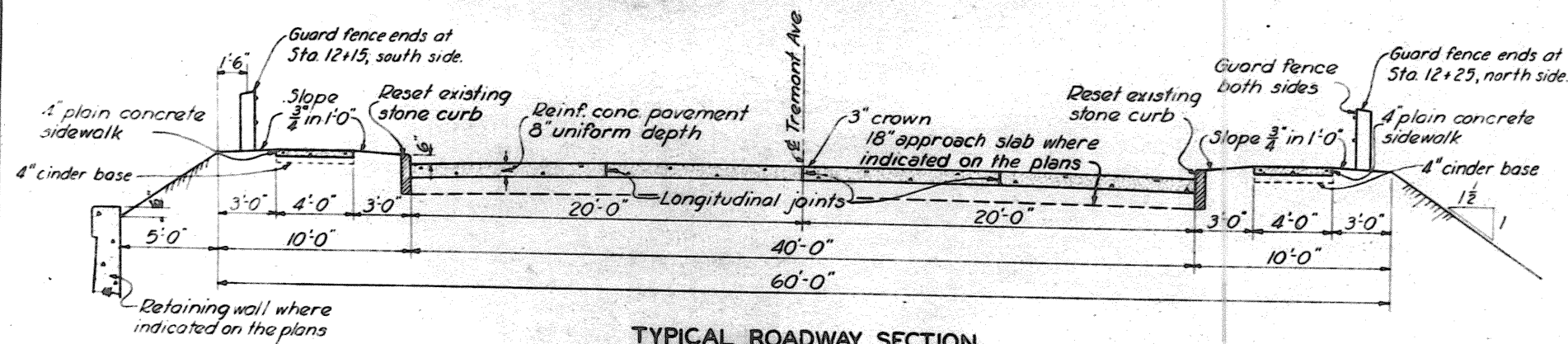
DRAWN BY F.R.G. CHECKED BY L.H.N. TRANSMITTED WITH LETTERS

FILE NO. 0271-PM-2-68/27 DATED

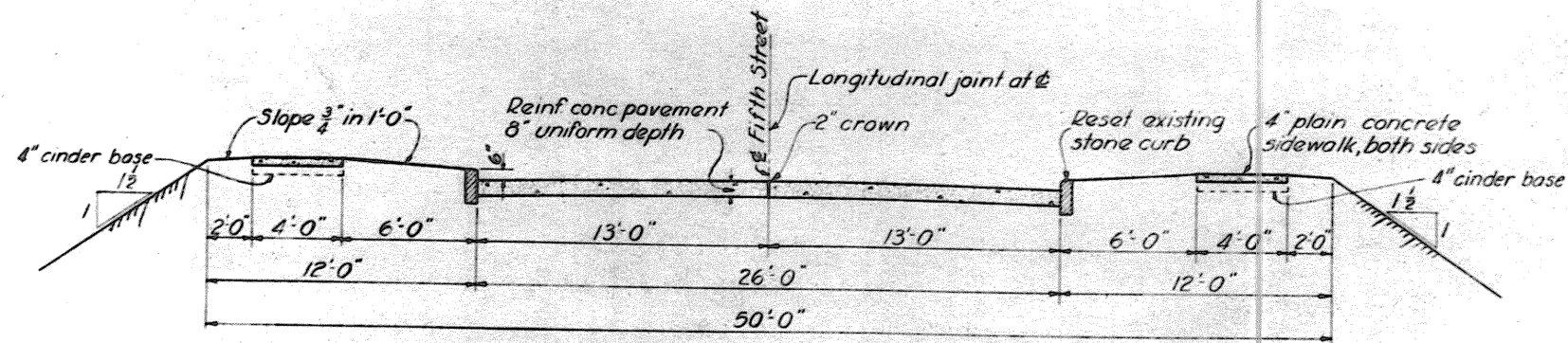
WORK AS CONSTRUCTED



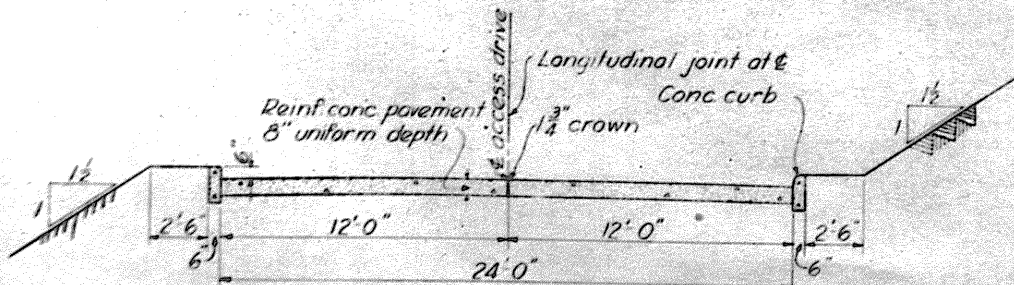
TYPICAL ROADWAY SECTION
FROM STA. 0+90 TO STA. 3+82



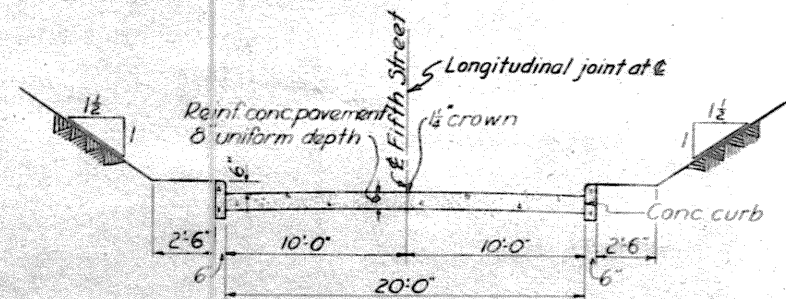
TYPICAL ROADWAY SECTION
FROM STA. 10+97 TO STA. 13+11



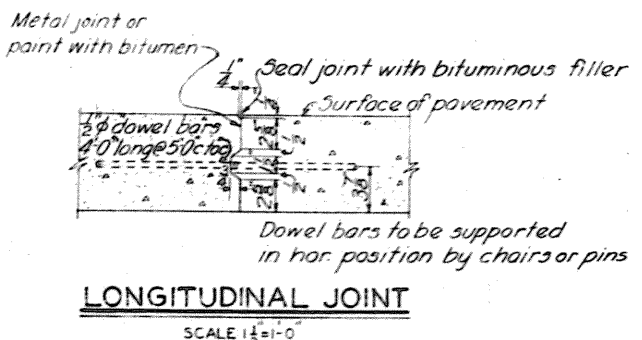
TYPICAL ROADWAY SECTION
FIFTH ST. SOUTH OF TREMONT AVE.



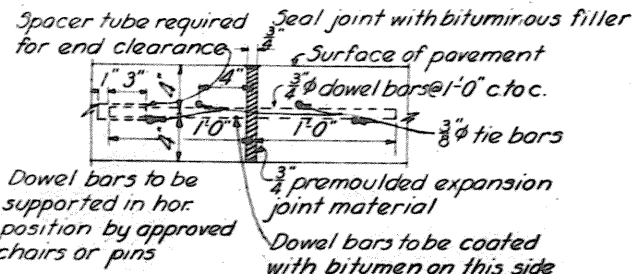
TYPICAL ROADWAY SECTION
ACCESS DRIVES TO B&O FREIGHT HOUSE



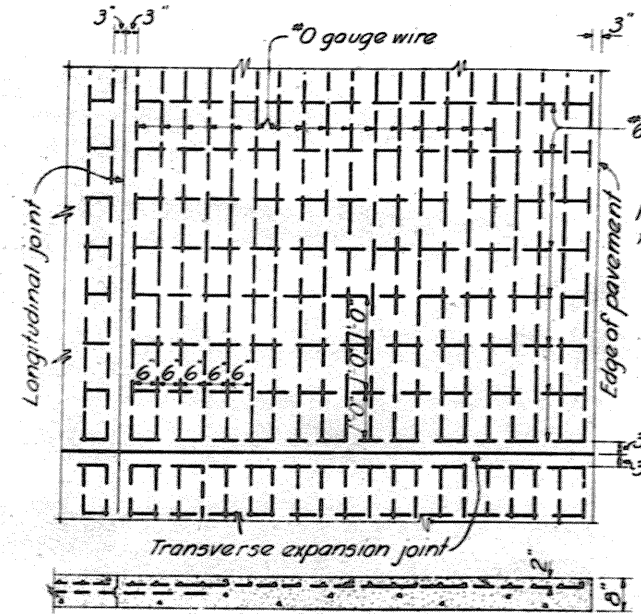
TYPICAL ROADWAY SECTION
FIFTH ST. NORTH OF TREMONT AVE.



LONGITUDINAL JOINT

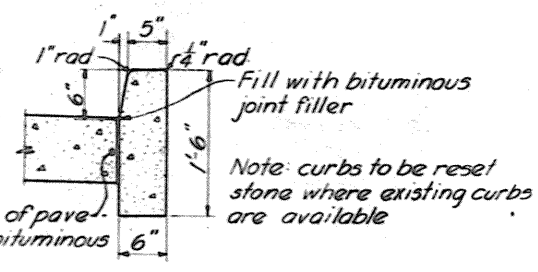


TRANSVERSE EXPANSION JOINT

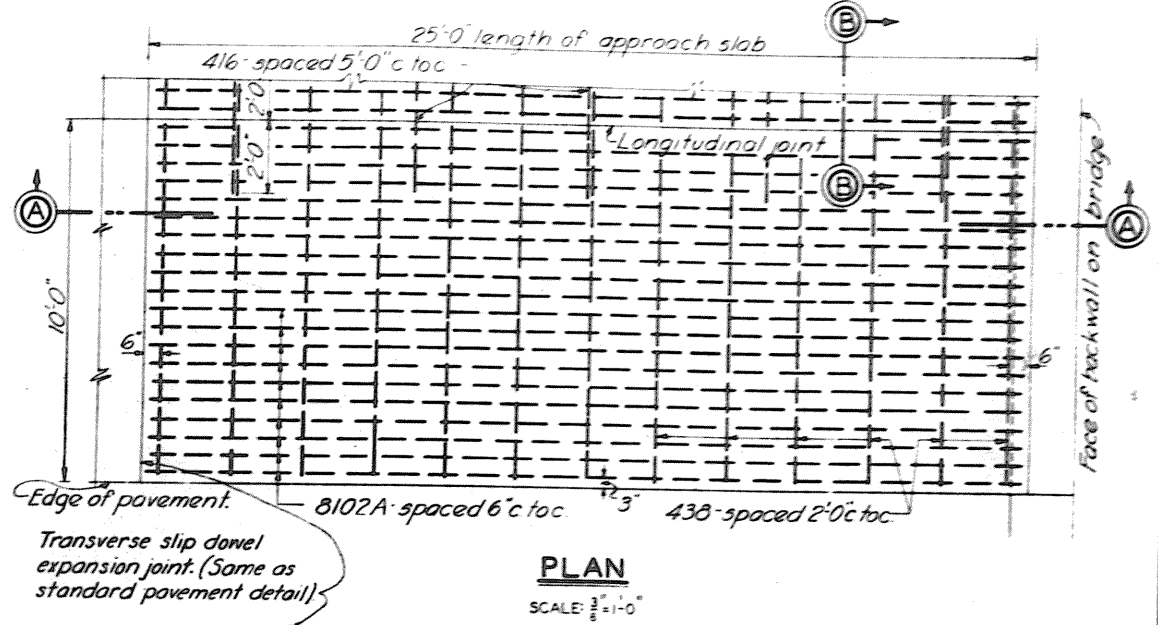


BAR MAT REINFORCING

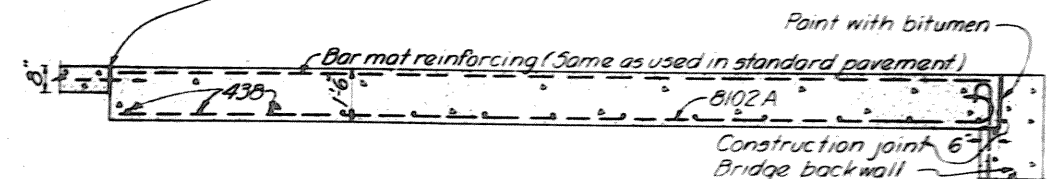
STANDARD REINF. CONCRETE
PAVEMENT DETAILS



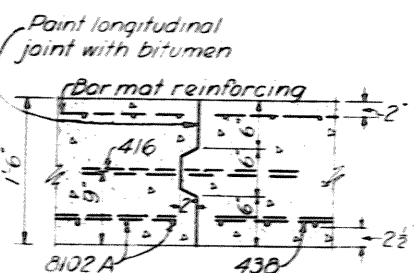
DETAIL OF CONCRETE CURB



PLAN



SECTION A-A



SECTION B-B

REINFORCING SCHEDULE						
MARK	SIZE	LGTH	BENDING	DIAGRAM	NO.	TOTAL WT.
4/16	1/2"	4'-0"			15	267
4/16	1/2"	9'-6"			52	635
6/102A	1/2"	25'-6"			80	6809
					Total	5917

Reinforcing steel for one approach slab

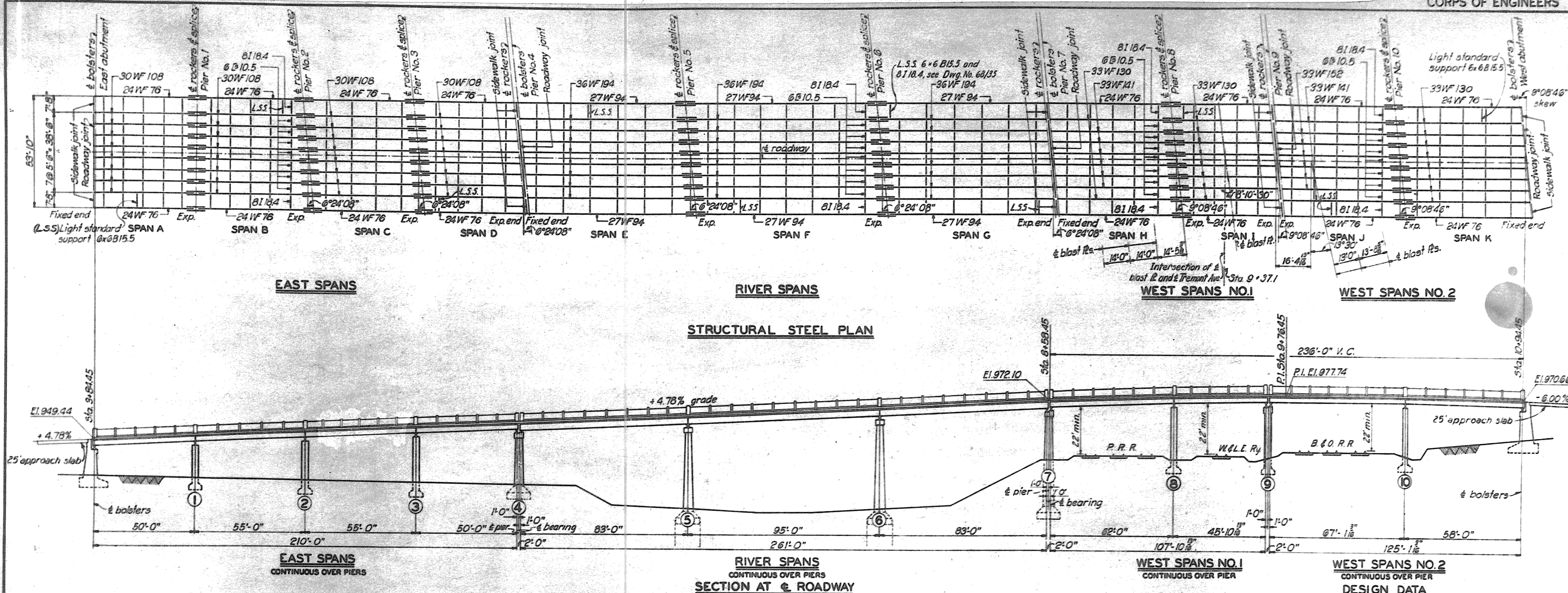
APPROACH SLAB DETAILS

NOTES
Expansion joints to be placed in reinf. concrete pavement at intervals of not more than 60 feet. These joints shall be continuous across entire width of pavement, and at right angles to E of pavement. Construction joints where necessary shall be constructed similar to transverse expansion joints except that spacer tubes and pre-moulded joint material shall be omitted.

**TUSCARAWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO
SECTION 2 - UNIT 1
TREMONT AVENUE VIADUCT
APPROACH SECTIONS & DETAILS**

H.O.W. 6-20-47	REVISED TO AGREE WITH ADDENDUM NO. 1
BY DATE	CHARACTER
REVISIONS	

IN 37 SHEETS SHEET NO. 22 SCALE: 1/2" = 1'-0" APRIL 1947
HUNTINGTON DISTRICT, CORPS OF ENGINEERS, WAR DEPT.
SUBMITTED BY: [Signature] RECOMMENDED FOR APPROVAL: [Signature]
ENGINEER: [Signature] TECHNICAL ASSISTANT: [Signature]
DRAWN BY: H.G.H. TRANSMITTED WITH LETTERS
CHECKED BY: C.D.W. FILE NO. 0271-PM2-68/28 DATED



POSITIVE MOMENTS IN FOOT POUNDS

LOADS	EAST SPANS						RIVER SPANS						WEST SPANS NO. 1						WEST SPANS NO. 2					
	SPANS A & D			SPANS B & C			SPANS E & F			SPAN F			SPAN H			SPAN I			SPAN J			SPAN K		
DEAD LOAD	103,000	122,000	60,000	84,000	97,000	52,000	359,000	413,000	183,000	952,000	389,000	175,000	180,000	212,000	99,000	64,000	72,000	36,000	207,000	238,000	109,000	125,000	145,000	71,000
LIVE LOAD	267,000	188,000		240,000	168,000		511,000	360,000		478,000	336,000		348,000	228,000		246,000	159,000		386,000	251,000		327,000	213,000	
IMPACT	77,000	54,000		67,000	47,000		123,000	86,000		108,000	76,000		93,000	60,000		72,000	46,000		100,000	65,000		89,000	58,000	
DEADWALK LL		47,000	58,000		43,000	54,000		133,000	162,000		125,000	152,000		68,000	83,000		40,000	48,000		79,000	96,000		61,000	75,000
TOTAL	447,000	411,000	118,000	391,000	355,000	106,000	993,000	992,000	345,000	938,000	926,000	327,000	621,000	566,000	182,000	382,000	317,000	84,000	693,000	633,000	205,000	541,000	477,000	146,000

NEGATIVE MOMENTS IN FOOT POUNDS

LOADS	EAST SPANS						RIVER SPANS						WEST SPANS					
	PIER NOS. 1 & 3			PIER NO. 2			PIER NOS. 5 & 6			PIER NO. 8			PIER NO. 10					
DEAD LOAD	103,000	135,000	58,000	87,000	111,000	48,000	296,000	380,000	162,000	147,000	188,000	80,000	183,000	235,000	100,000			
LIVE LOAD	267,000	202,000		285,000	200,000		545,000	383,000		326,000	212,000		384,000	250,000				
IMPACT	63,000	44,000		61,000	43,000		89,000	63,000		70,000	45,000		77,000	50,000				
DEADWALK LL		59,000	72,000		60,000	73,000		173,000	211,000		75,000	91,000		93,000	113,000			
TOTAL	455,000	440,000	130,000	433,000	415,000	121,000	930,000	999,000	373,000	543,000	520,000	171,000	644,000	628,000	213,000			

MAXIMUM SHOE REACTIONS IN POUNDS

LOADS	RIVER SPANS					
	PIER NOS. 4 & 7			PIER NOS. 5 & 6		
DEAD LOAD	19,900	23,200	10,300	54,000	84,400	28,200
LIVE LOAD	32,600	21,400		59,700	42,000	
IMPACT	7,800	5,100		9,800	6,900	
DEADWALK LL		7,100	8,600		19,900	24,300
TOTAL	60,300	56,800	18,900	123,500	133,200	52,500

TUSCARAWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO
SECTION 2 - UNIT 1
TREMONT AVENUE VIADUCT
STEEL PLAN & DESIGN DATA

IN 37 SHEETS

SHEET NO. 23

SCALE: 1"=20'

APRIL 1947

HUNTINGTON DISTRICT, CORPS OF ENGINEERS, WAR DEPT.

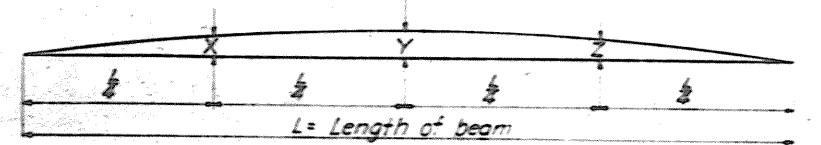
SUBMITTED BY: J. H. L. RECOMMENDED FOR APPROVAL: J. H. L. APPROVED: J. H. L.

ENGINEER: J. H. L. TECHNICAL ASSISTANT: J. H. L. COLONEL, CORPS OF ENGINEERS

CHECKED BY: H. E. C. FILE NO: 0271-PM2-68/29

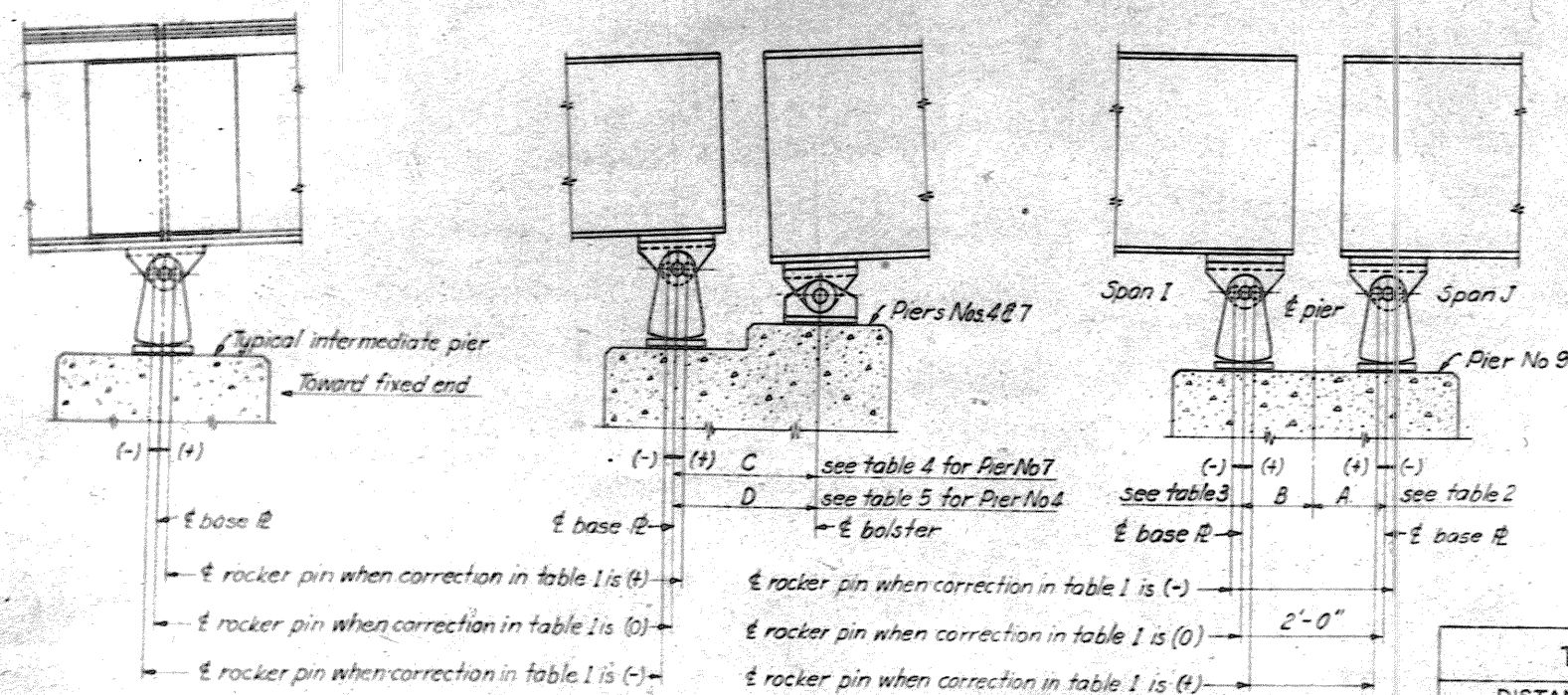
TRANSMITTED WITH LETTER

WORK AS CONSTRUCTED



CAMBER DIAGRAM

SPAN	CURB & INT BEAMS			HANDRAIL BEAM		
	X	Y	Z	X	Y	Z
A & D	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{4}$
B & C	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{8}$
E & G	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$
F	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$
H	$\frac{2}{16}$	$\frac{2}{16}$	$\frac{2}{16}$	$\frac{2}{16}$	$\frac{3}{16}$	$\frac{2}{16}$
I	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$
J	$\frac{2}{16}$	$\frac{3}{16}$	$\frac{2}{16}$	$\frac{2}{16}$	$\frac{3}{16}$	$\frac{2}{16}$
K	$\frac{1}{16}$	$\frac{2}{16}$	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{2}{16}$	$\frac{1}{16}$



ROCKER SETTING

ROCKER LOCATION	TEMPERATURE					
	0°	20°	40°	60°	80°	100°
PIER NO.1	-3/16	-1/4	-1/2	0	+1/8	+1/4
PIER NO.2	-1/8	-1/16	-1/8	0	+1/8	+1/8
PIER NO.3	-1/16	-1/16	-1/8	0	+1/8	+1/8
PIER NO.4	-1/8	-1/8	-1/8	0	+1/8	+1/8
PIER NO.5	-1/8	-1/8	-1/8	0	+1/8	+1/8
PIER NO.6	-1/8	-1/8	-1/8	0	+1/8	+1/8
PIER NO.7	-1/8	-1/8	-1/8	0	+1/8	+1/8
PIER NO.8	-1/8	-1/8	-1/8	0	+1/8	+1/8
PIER NO.9 SPAN I	-1/8	-1/8	-1/8	0	+1/8	+1/8
PIER NO.9 SPAN J	-1/8	-1/8	-1/8	0	+1/8	+1/8
PIER NO.10	-1/8	-1/8	-1/8	0	+1/8	+1/8

TABLE NO. 4							
DISTANCE "C" FOR ROCKER ON PIER NO. 7							
TEMPERATURE							
0°	20°	40°	60°	80°	100°	120°	
2'-11 1/2"	2'-0 3/4"	2'-0 3/4"	2'-0"	1'-11 1/2"	1'-11 1/2"	1'-10 1/2"	

TABLE NO. 5						
DISTANCE "D" FOR ROCKER ON PIER NO.4						
TEMPERATURE						
0°	20°	40°	60°	80°	100°	120°
2'0"	2'0"	2'0"	2'0"	1'11"	1'11"	1'11"

TABLE NO.2						
DISTANCE "A" FOR ROCKER ON PIER NO 9, SPAN J						
TEMPERATURE						
0°	20°	40°	60°	80°	100°	120°
1-0 1/2"	1-0 1/2"	1-0 1/2"	1-0"	11 1/2"	11 1/2"	11 1/2"

TABLE NO. 3						
DISTANCE B FOR ROCKER ON PIER NO. 9 SPAN I						
TEMPERATURE						
0°	20°	40°	60°	80°	100°	120°
1'-0"	1'-0 1/2"	1'-0 1/2"	1'-0"	11'-2"	11'-2"	11'-4"

**TUSCARAWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO
SECTION 2 - UNIT 1**

TREMONT AVENUE VIADUCT
ANCHOR BOLT PLAN & ERECTION DATA

IN 37 SHEETS SHEET NO. 24 SCALE: $\frac{1}{2}'' = 10'$

12' 6" 0' 6"

MUNTINGTON DISTRICT, CORPS OF ENGINEERS, WAR DEPT.

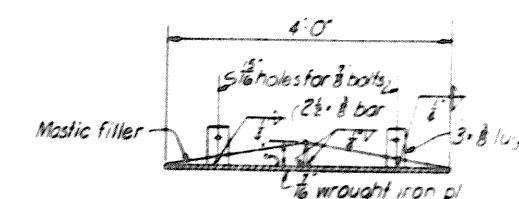
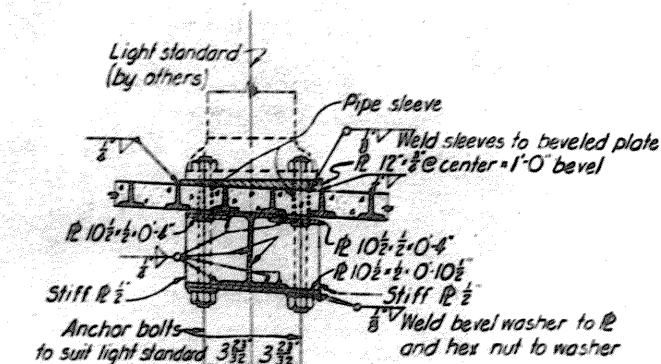
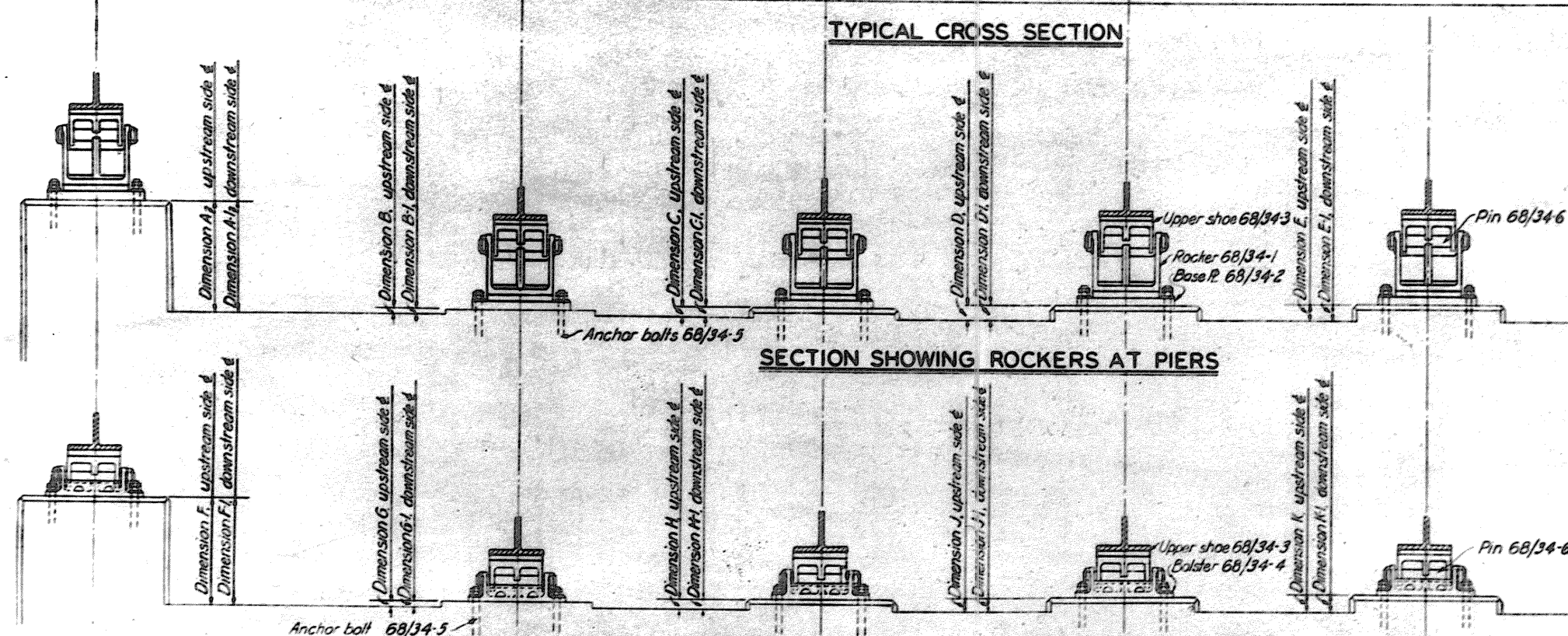
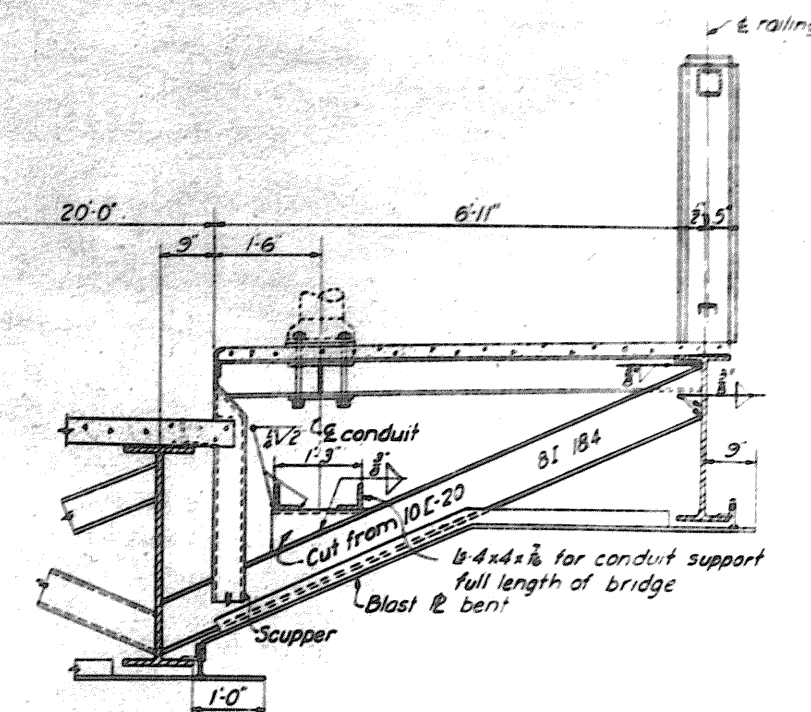
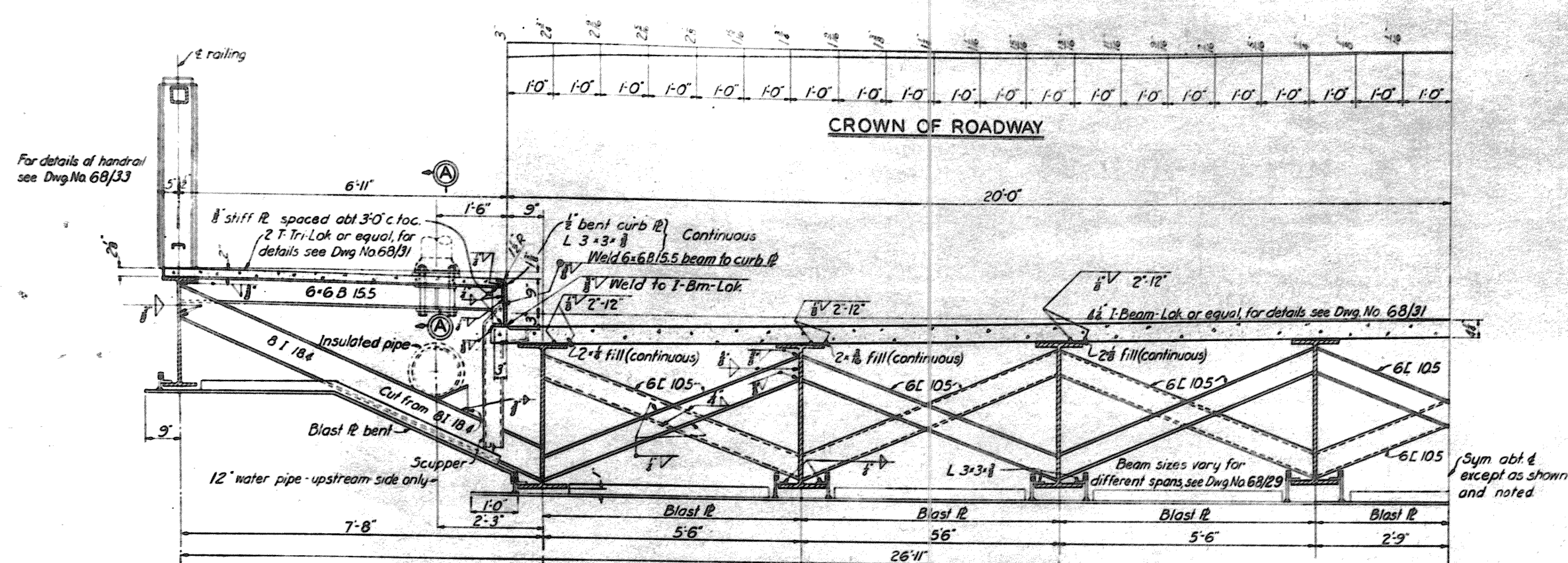
SUBMITTED BY *J. H. Lohr* RECOMMENDED FOR APPROVAL BY *J. H. Lohr* APPROVED BY *J. H. Lohr*

DRAWN BY *J. H. Lohr* TECHNICAL ASSISTANT *J. H. Lohr* COLONEL, CORPS OF ENGINEERS

CHECKED BY *J. H. Lohr* DATED 12-1-1917 TRANSMITTED WITH LETTERS

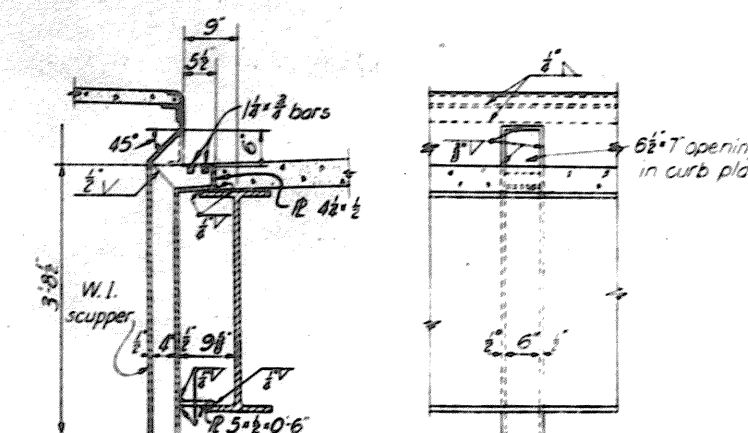
FILE NO. 0271-PM2-68/30

WORK AS CONSTRUCTED



TYPICAL SECTION OF BLAST PLATE
417 LIN FT RECD

SECTION A-A
SCALE: 1/8" = 1'-0"



DETAIL OF SCUPPER

NOTES

For location of blast plates, see
Dwg. No. 68/29

HEIGHT OF PEDESTALS UNDER ROCKERS											BRIDGE SEAT ELEVATION	PLATE NORMAL	PLUS SHIMS
PIER	A	B	C	D	E	E-1	D-1	C-1	B-1	A-1		SIDEWALK BEAMS	ROADWAY BEAMS
No1	1'-10 1/2"	1'	2 3/4"	3"	3 3/4"	3 3/4"	3"	2 3/4"	1"	1'-10 1/2"	947.03	0"	1"
No2	2'-1 1/2"	3 1/2"	4 1/2"	4 3/4"	5 1/2"	4 3/4"	3 3/4"	2 3/4"	1"	1'-10 1/2"	949.56	0"	1"
No3	2'-1 1/2"	3 3/4"	4 1/2"	4 3/4"	5 1/2"	4 3/4"	3 3/4"	2 3/4"	1"	1'-10 1/2"	952.19	0"	1"
No4	2'-1 1/2"	3 1/2"	4 1/2"	4 3/4"	5 1/2"	4 3/4"	3 3/4"	2 3/4"	1"	1'-10 1/2"	954.58	0"	1"
No5	2'-5 1/2"	3 3/4"	4 1/2"	4 3/4"	5 1/2"	4 3/4"	3 3/4"	2 3/4"	1"	2'-2 1/2"	958.07	0"	1 1/2"
No6	2'-5 1/2"	3 3/4"	4 1/2"	4 3/4"	5 1/2"	4 3/4"	3 3/4"	2 3/4"	1"	2'-2 1/2"	962.61	0"	1 1/2"
No7	2'-5 1/2"	3 3/4"	4 1/2"	4 3/4"	5 1/2"	4 3/4"	3 3/4"	2 3/4"	1"	2'-2 1/2"	966.57	0"	1 1/2"
No8	2'-3 1/2"	2 3/4"	3 3/4"	3 3/4"	4 1/2"	4 1/2"	3 3/4"	2 3/4"	1"	2'-1 1/2"	969.08	0"	1 1/2"
No9 Span1	2'-2"	1"	1 1/2"	2 1/2"	3 1/2"	3 1/2"	2 1/2"	2 1/2"	1 1/2"	2'-2"	969.49	0"	1 1/2" (See Notes)
No9 Span2	2'-2"	1"	1 1/2"	2 1/2"	3 1/2"	3 1/2"	2 1/2"	2 1/2"	1 1/2"	2'-2"	969.49	0"	1 1/2"
No10	2'-1 1/2"	1"	2 1/2"	3 1/2"	4 1/2"	4 1/2"	3 1/2"	2 1/2"	1"	2'-5"	968.18	0"	1 1/2"

HEIGHT OF PEDESTALS UNDER BOLSTERS										BRIDGE SEAT ELEVATION	PLATE PLUS NORMAL SHIM		
LOCATION	F	G	H	J	K	K-1	J-1	H-1	G-1		F-1	SIDEWALK BEAMS	ROADWAY BEAM
EAST ABUT	1'-10 1/2"		1'-2 3/4"	3"	3 3/8"	3 3/8"	3"	2 3/8"	1"	1'-10 1/2"	945.45	3"	1"
PIER NO 4	2'-9 1/2"	7 1/2"	8 1/2"	8 1/2"	9 1/2"	8 1/2"	7 1/2"	6 1/2"	5"	2'-6 1/2"	954.58	3"	1 1/2"
PIER NO 7	3'-7 1/2"	1'-6"	1'-6 1/2"	1'-7 1/2"	1'-7"	1'-6"	1'-6"	1'-5 1/2"	1'-3 1/2"	33 1/2"	966.57	3"	1 1/2" curb on both
WEST ABUT	2'-0 1/2"	1"	2"	4 1/2"	5 1/2"	6 1/2"	6 1/2"	4 1/2"	5 1/2"	2'-7 1/2"	966.22	3"	

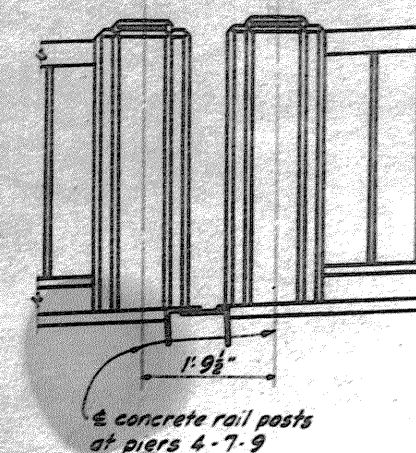
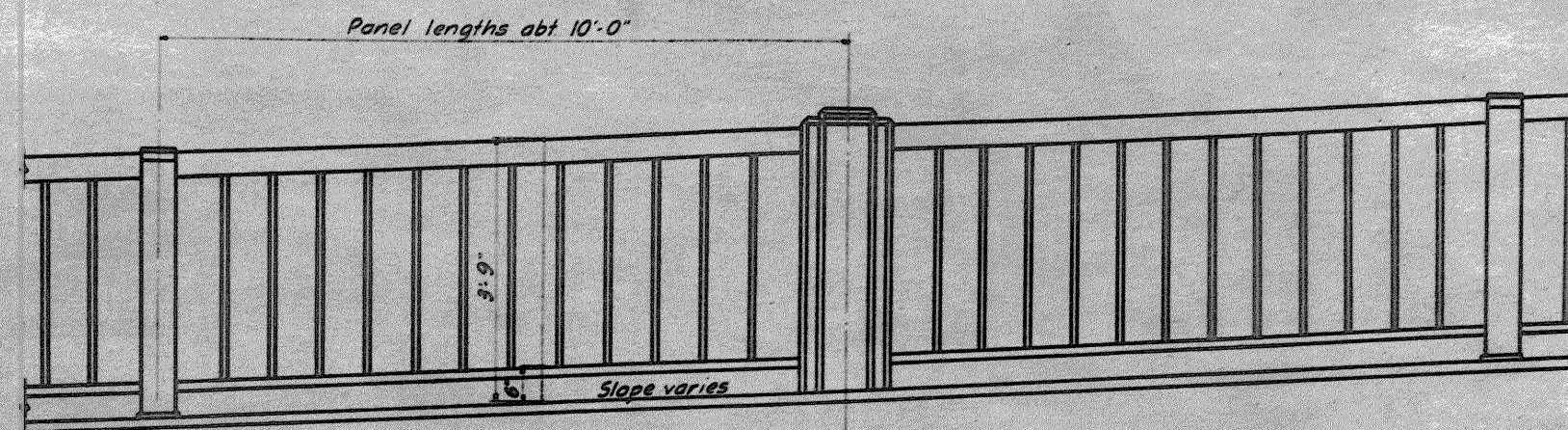
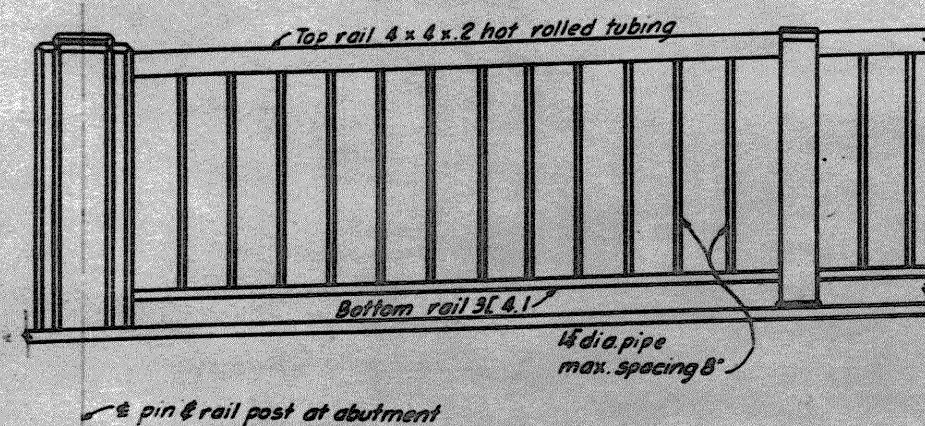
**TUSCARAWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO
SECTION 2 - UNIT 1**

TREMONT AVENUE VIADUCT
TYPICAL SECTIONS & DETAILS

IN 37 SHEETS SHEET NO. 26 SCALE: $\frac{3}{8}'' = 1'-0''$

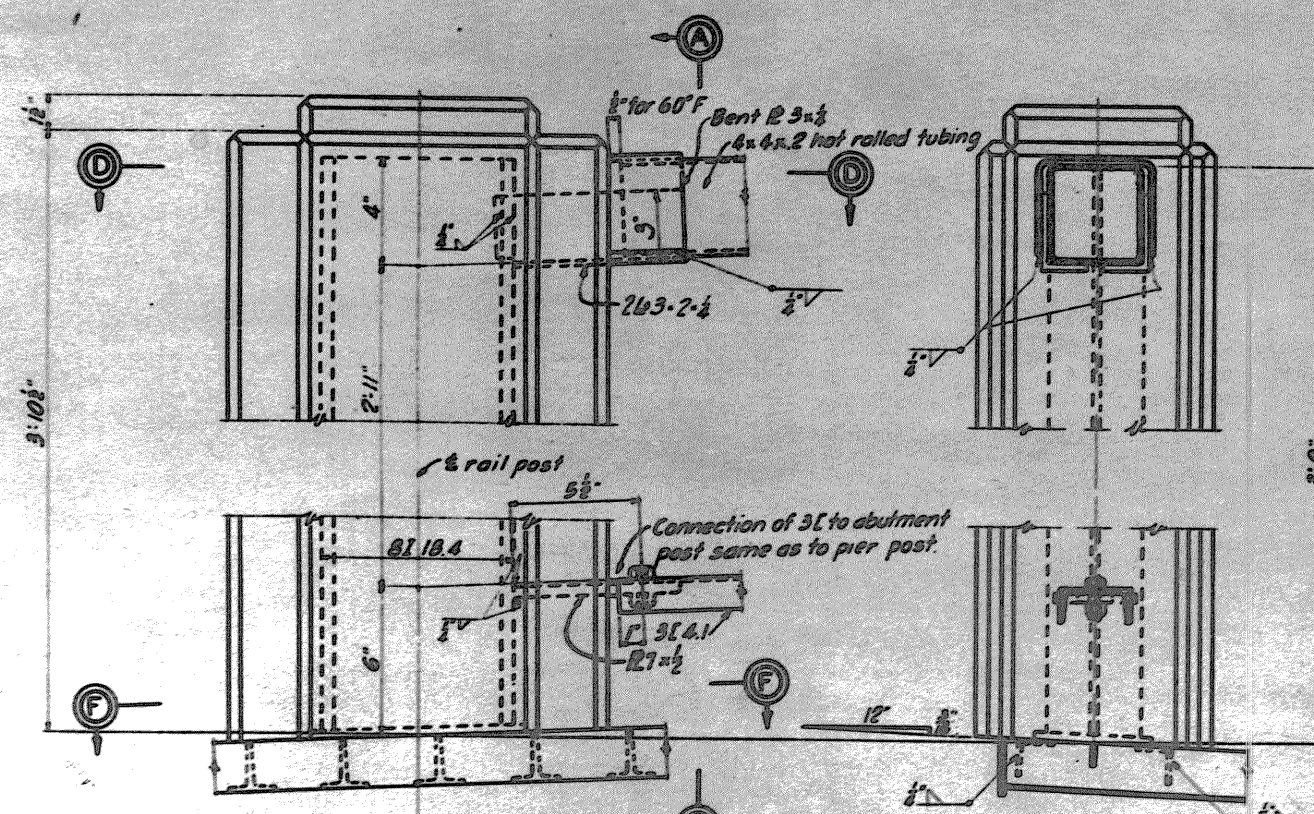
1257 1258 1259 1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286 1287 1288 1289 1290 1291 1292 1293 1294 1295 1296 1297 1298 1299 1300 1301 1302 1303 1304 1305 1306 1307 1308 1309 1310 1311 1312 1313 1314 1315 1316 1317 1318 1319 1320 1321 1322 1323 1324 1325 1326 1327 1328 1329 1330 1331 1332 1333 1334 1335 1336 1337 1338 1339 1340 1341 1342 1343 1344 1345 1346 1347 1348 1349 1350 1351 1352 1353 1354 1355 1356 1357 1358 1359 1360 1361 1362 1363 1364 1365 1366 1367 1368 1369 1370 1371 1372 1373 1374 1375 1376 1377 1378 1379 1380 1381 1382 1383 1384 1385 1386 1387 1388 1389 1390 1391 1392 1393 1394 1395 1396 1397 1398 1399 1400 1401 1402 1403 1404 1405 1406 1407 1408 1409 1410 1411 1412 1413 1414 1415 1416 1417 1418 1419 1420 1421 1422 1423 1424 1425 1426 1427 1428 1429 1430 1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441 1442 1443 1444 1445 1446 1447 1448 1449 1450 1451 1452 1453 1454 1455 1456 1457 1458 1459 1460 1461 1462 1463 1464 1465 1466 1467 1468 1469 1470 1471 1472 1473 1474 1475 1476 1477 1478 1479 1480 1481 1482 1483 1484 1485 1486 1487 1488 1489 1490 1491 1492 1493 1494 1495 1496 1497 1498 1499 1500 1501 1502 1503 1504 1505 1506 1507 1508 1509 1510 1511 1512 1513 1514 1515 1516 1517 1518 1519 1520 1521 1522 1523 1524 1525 1526 1527 1528 1529 1530 1531 1532 1533 1534 1535 1536 1537 1538 1539 1540 1541 1542 1543 1544 1545 1546 1547 1548 1549 1550 1551 1552 1553 1554 1555 1556 1557 1558 1559 1560 1561 1562 1563 1564 1565 1566 1567 1568 1569 1570 1571 1572 1573 1574 1575 1576 1577 1578 1579 1580 1581 1582 1583 1584 1585 1586 1587 1588 1589 1590 1591 1592 1593 1594 1595 1596 1597 1598 1599 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 1611 1612 1613 1614 1615 1616 1617 1618 1619 1620 1621 1622 1623 1624 1625 1626 1627 1628 1629 1630 1631 1632 1633 1634 1635 1636 1637 1638 1639 1640 1641 1642 1643 1644 1645 1646 1647 1648 1649 1650 1651 1652 1653 1654 1655 1656 1657 1658 1659 1660 1661 1662 1663 1664 1665 1666 1667 1668 1669 1670 1671 1672 1673 1674 1675 1676 1677 1678 1679 1680 1681 1682 1683 1684 1685 1686 1687 1688 1689 1690 1691 1692 1693 1694 1695 1696 1697 1698 1699 1700 1701 1702 1703 1704 1705 1706 1707 1708 1709 1710 1711 1712 1713 1714 1715 1716 1717 1718 1719 1720 1721 1722 1723 1724 1725 1726 1727 1728 1729 1730 1731 1732 1733 1734 1735 1736 1737 1738 1739 1740 1741 1742 1743 1744 1745 1746 1747 1748 1749 1750 1751 1752 1753 1754 1755 1756 1757 1758 1759 1760 1761 1762 1763 1764 1765 1766 1767 1768 1769 1770 1771 1772 1773 1774 1775 1776 1777 1778 1779 1780 1781 1782 1783 1784 1785 1786 1787 1788 1789 1790 1791 1792 1793 1794 1795 1796 1797 1798 1799 1800 1801 1802 1803 1804 1805 1806 1807 1808 1809 1810 1811 1812 1813 1814 1815 1816 1817 1818 1819 1820 1821 1822 1823 1824 1825 1826 1827 1828 1829 1830 1831 1832 1833 1834 1835 1836 1837 1838 1839 1840 1841 1842 1843 1844 1845 1846 1847 1848 1849 1850 1851 1852 1853 1854 1855 1856 1857 1858 1859 1860 1861 1862 1863 1864 1865 1866 1867 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075

WORK AS CONSTRUCTED



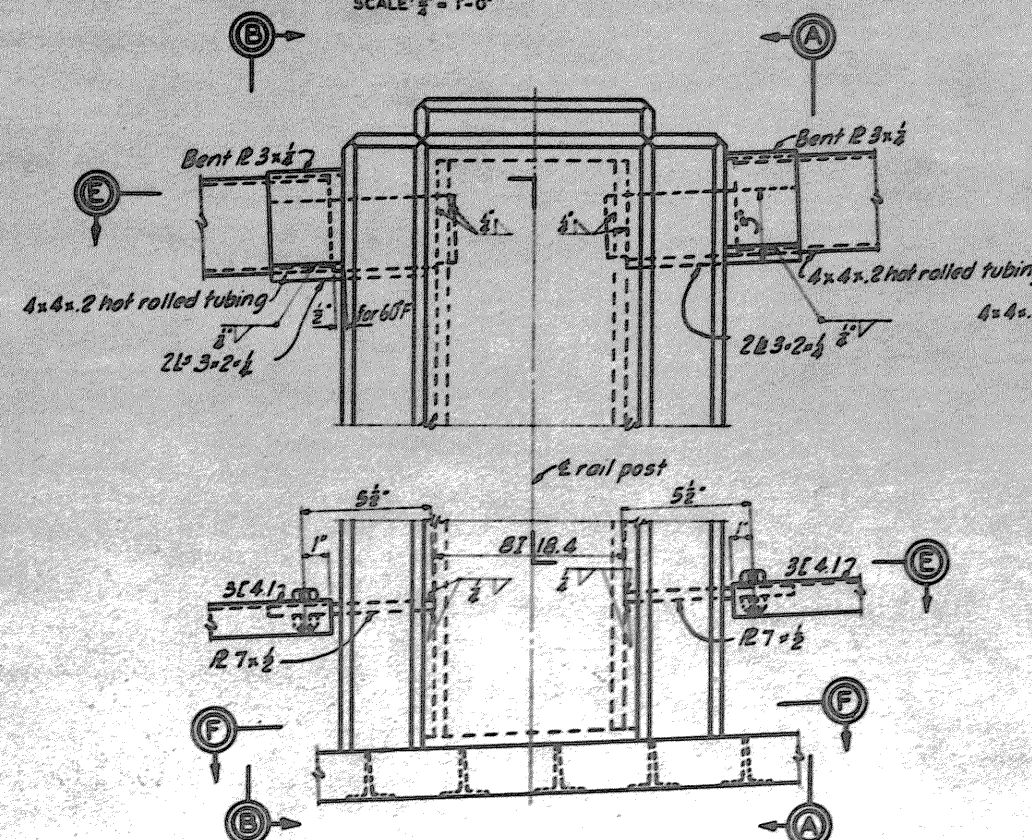
TYPICAL RAILING PANELS

SCALE 3/8" = 1'-0"

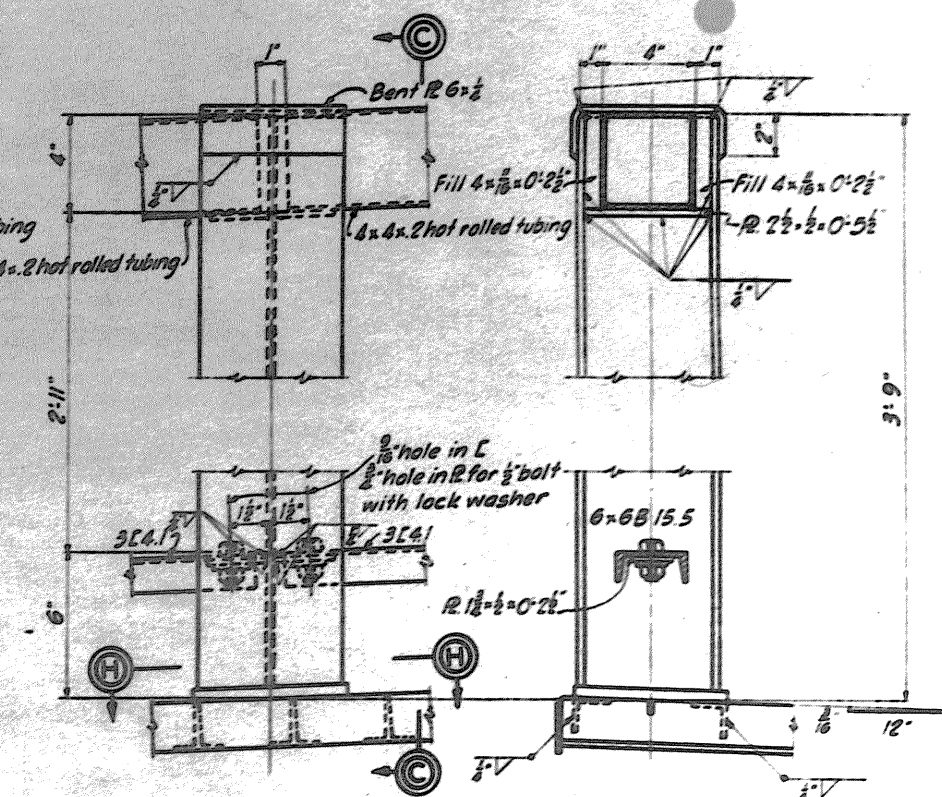


CONCRETE RAIL POST AT ABUTMENT

SECTION A-A AS SHOWN
SECTION B-B OPP. HAND

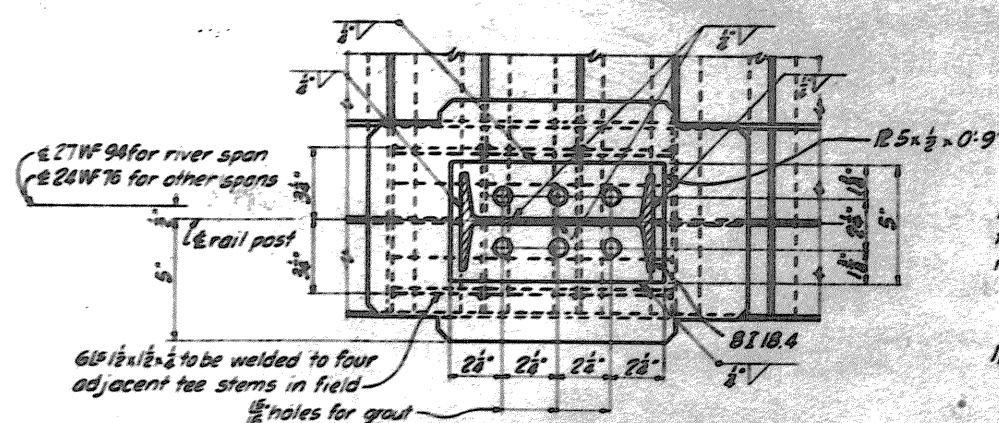


CONCRETE RAIL POST AT PIERS

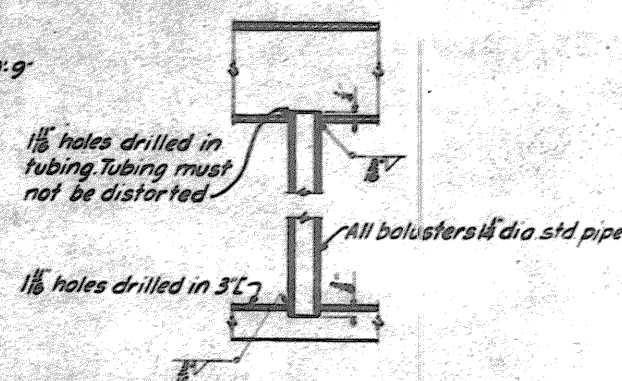


INTERMEDIATE RAIL POST

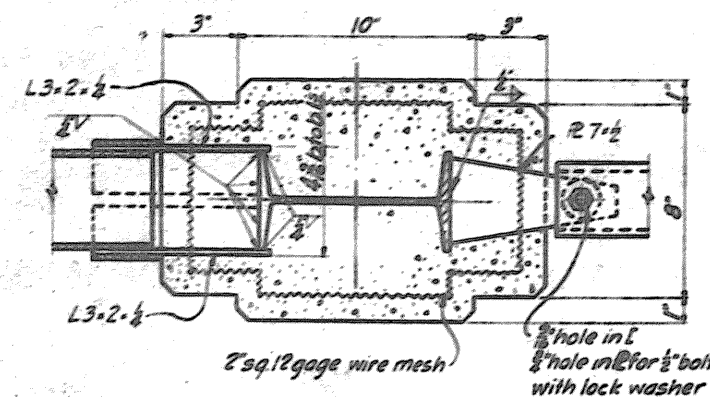
SECTION C-C



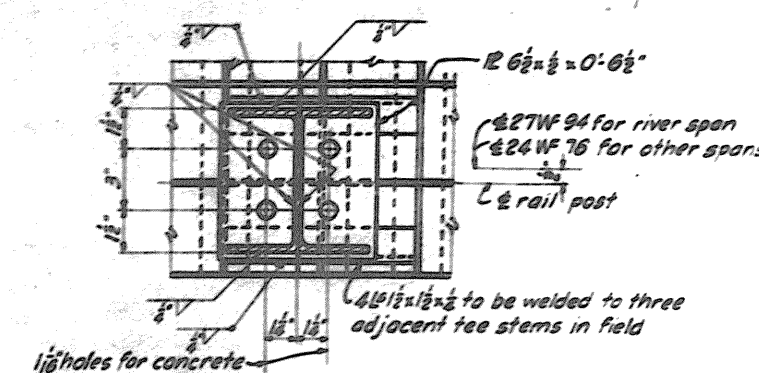
SECTION F-F



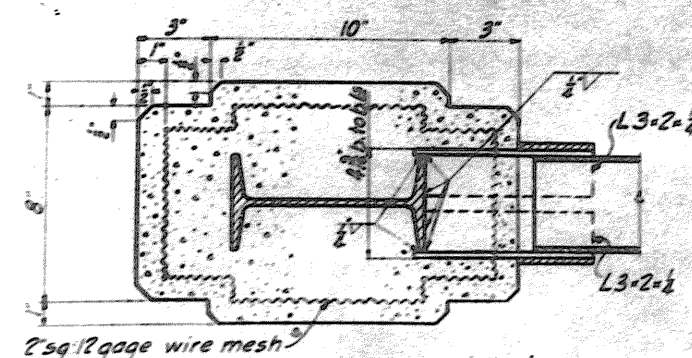
DETAIL OF BALUSTERS



SECTION E-E



SECTION H-H



SECTION D-D

NOTES

Material for railing to be structural steel.
Steel railing posts are to be welded in place
before sidewalk slab is poured.
Railing posts to be beveled to take care of side-
walk slope and grade of roadway.

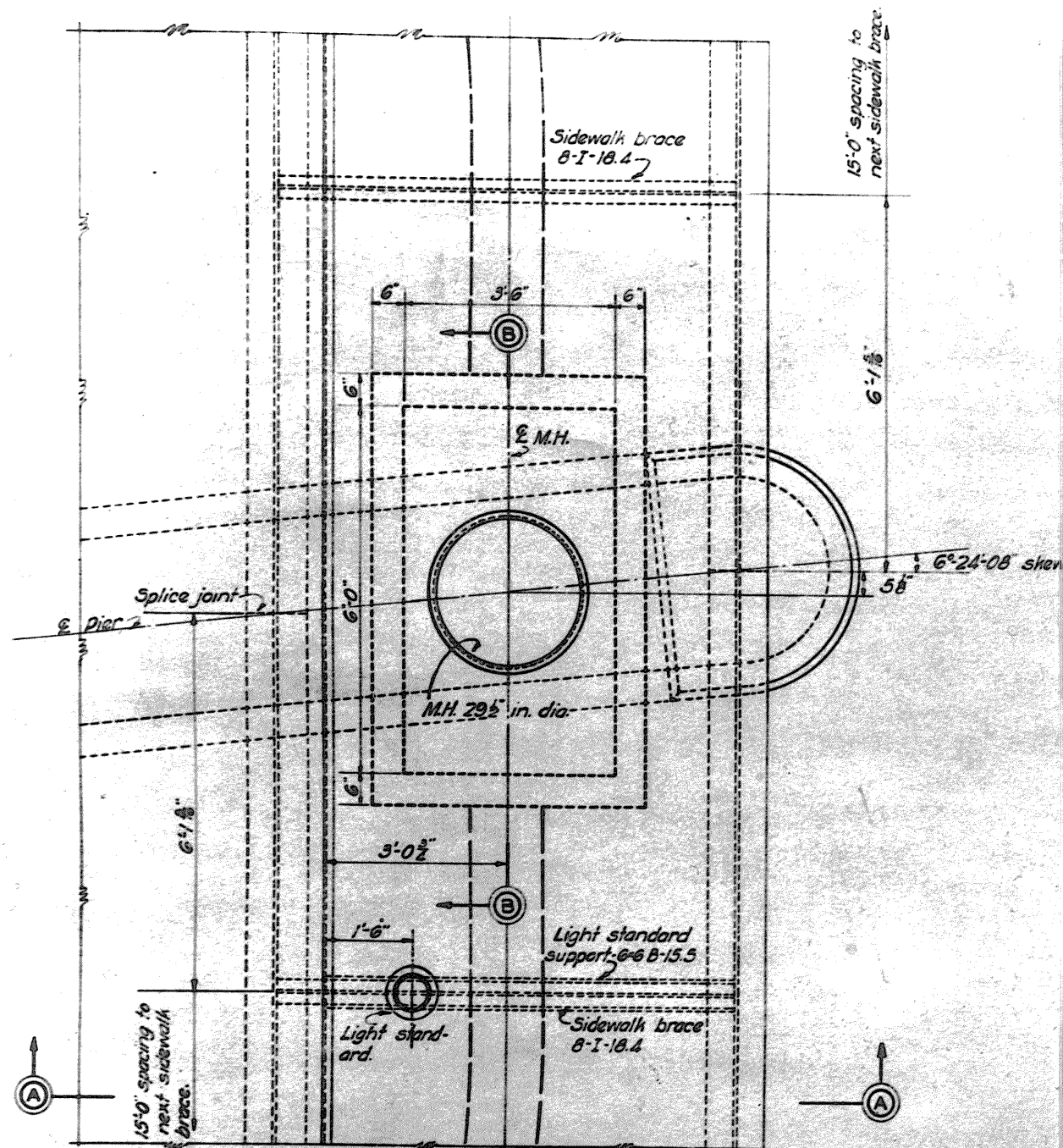
TUSCARAWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO
SECTION 2 - UNIT 1
TREMONT AVENUE VIADUCT
RAILING DETAILS

10 37 SHEETS SHEET NO. 27 SCALE: 3/8" = 1'-0"

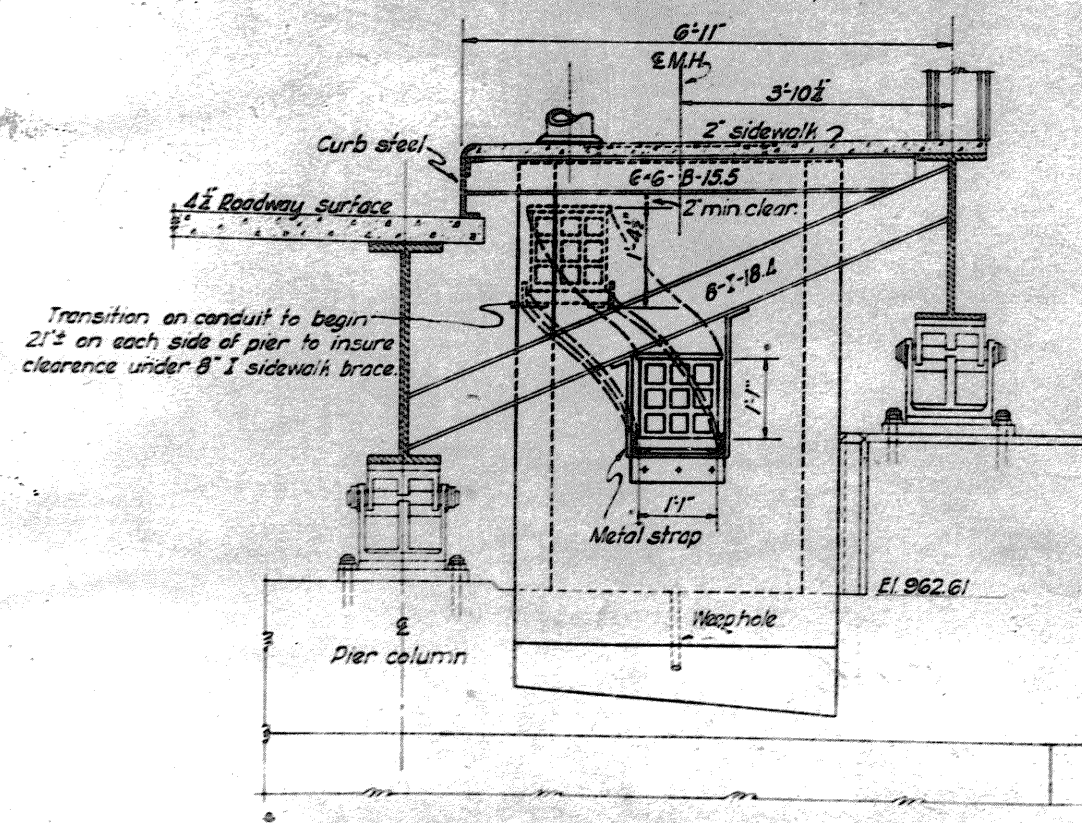
HUNTINGTON DISTRICT, CORPS OF ENGINEERS, WAR DEPT.
APRIL 1947
DESIGNED BY H.S.M. CHECKED BY H.S.M. FILE NO. 0271-PM2-68/33
RECOMMENDED FOR APPROVAL
APPROVED
ENGINEER
COLONEL, CORPS OF ENGINEERS
TRANSMITTED WITH LETTERS
DATED

BY	DATE	CHARACTER
		REVISIONS

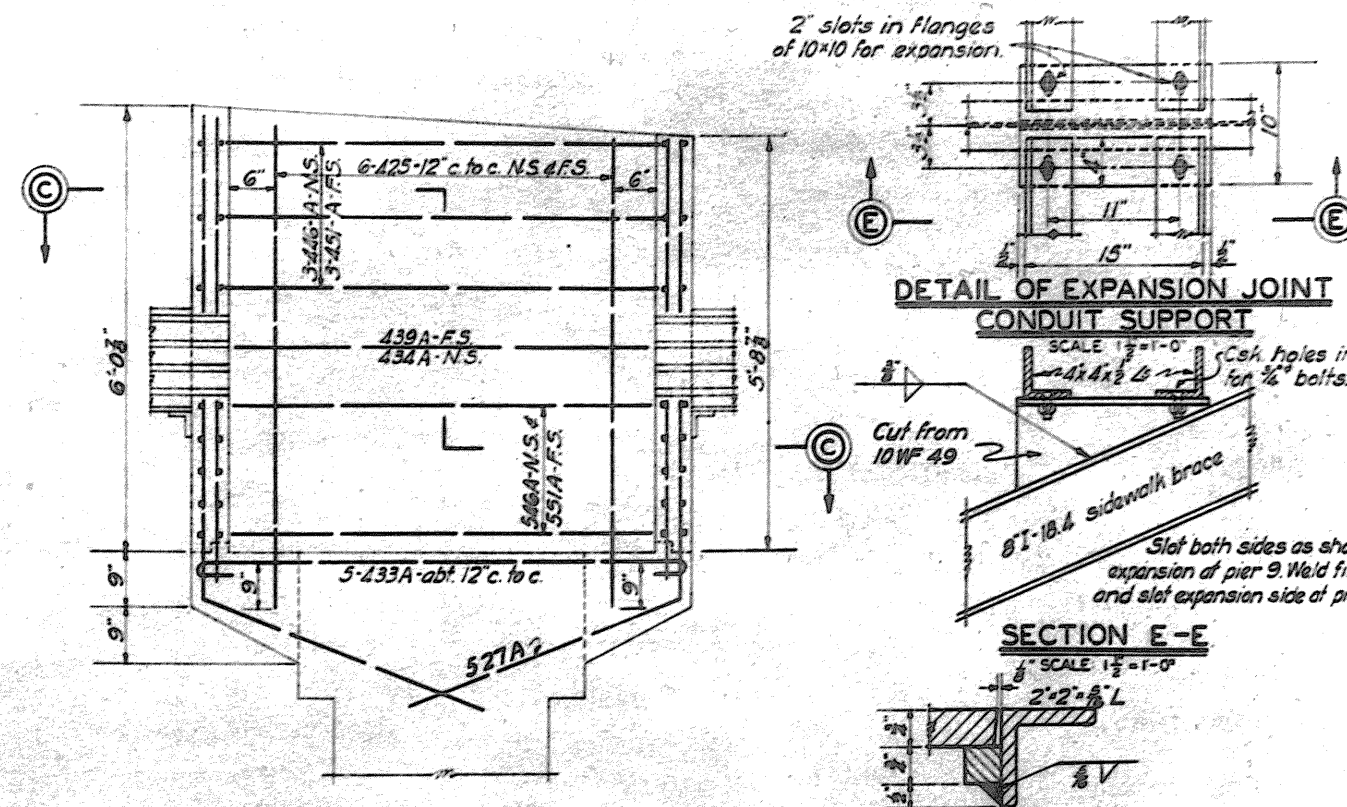
WORK AS CONSTRUCTED



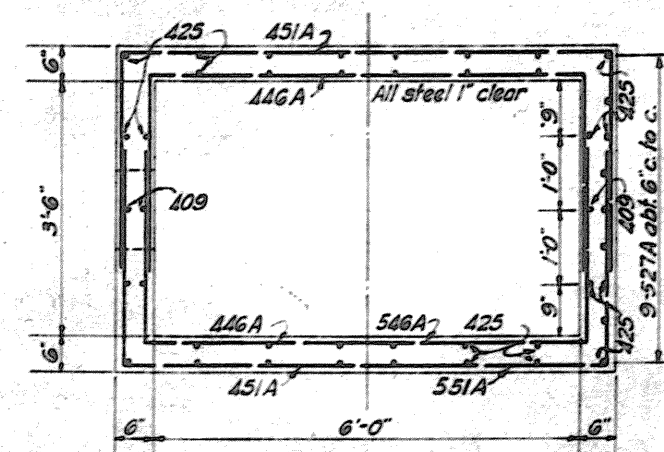
PLAN-LOCATION OF MANHOLE AT PIER NO. 6
OHIO BELL TELEPHONE CO.



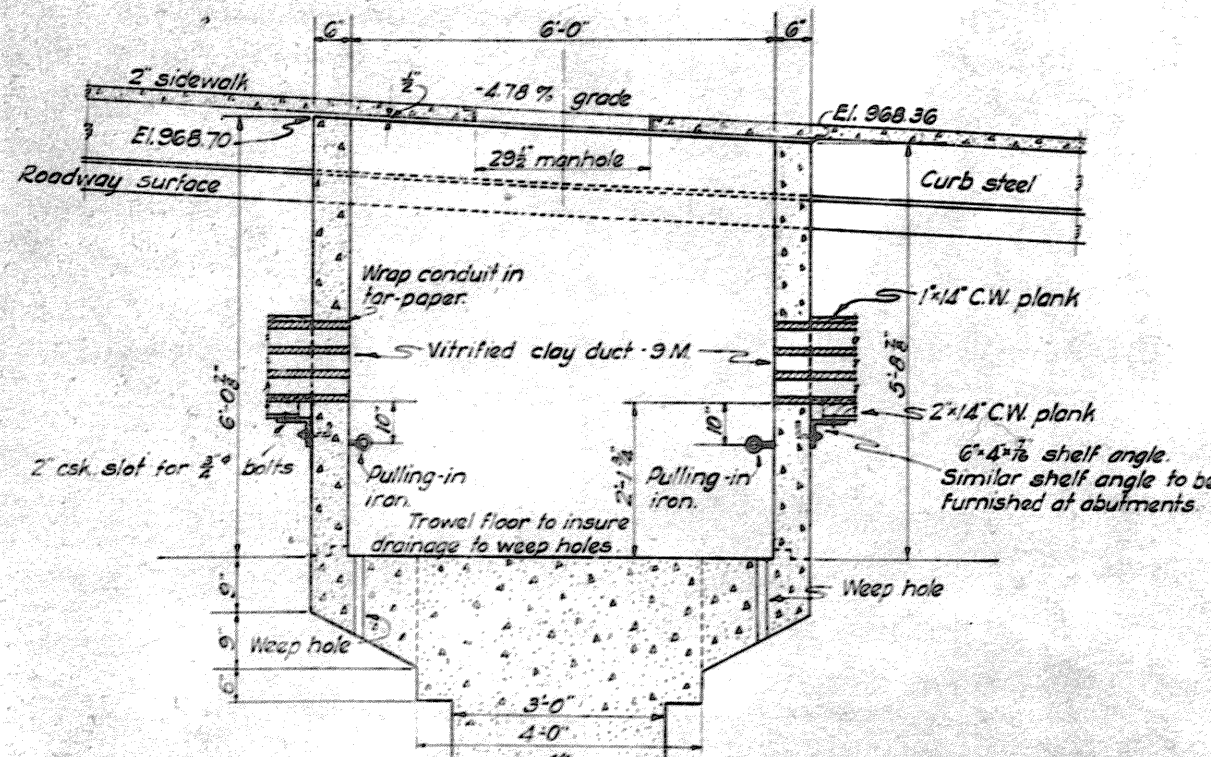
SECTION A-A



REINFORCING DETAIL

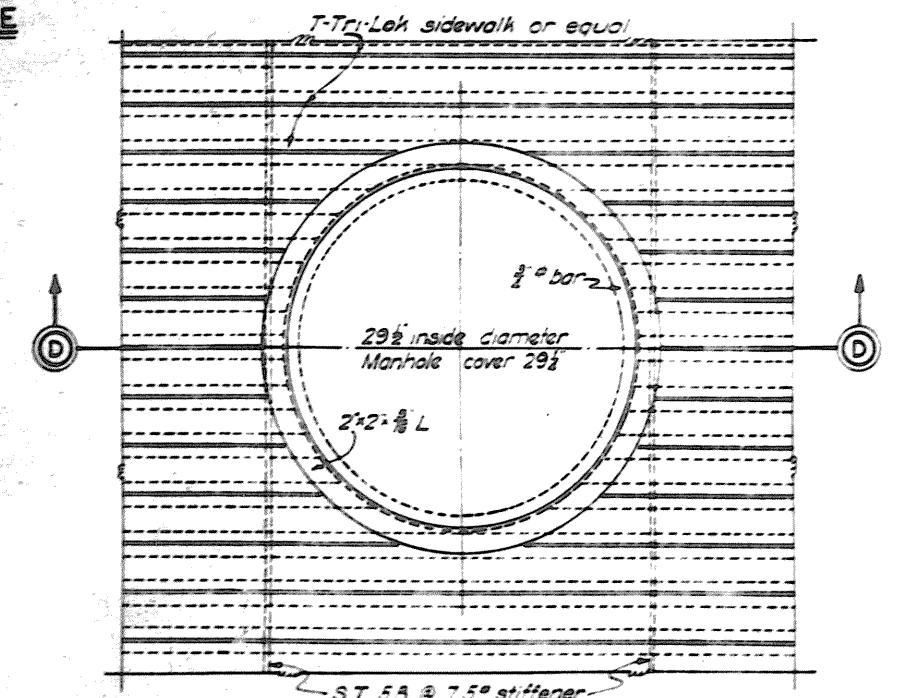


SECTION C-C

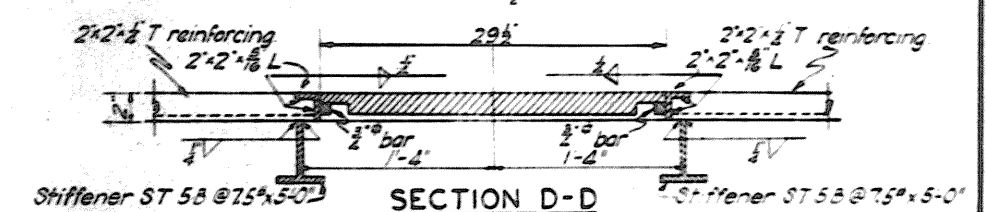


SECTION B-B

DETAIL OF ANGLE
MANHOLE FRAME
SCALE: HALF SIZE



PLAN-MANHOLE
SCALE: 1/2" = 1'-0"



SECTION D-D
SCALE: 1/2" = 1'-0"

NOTES

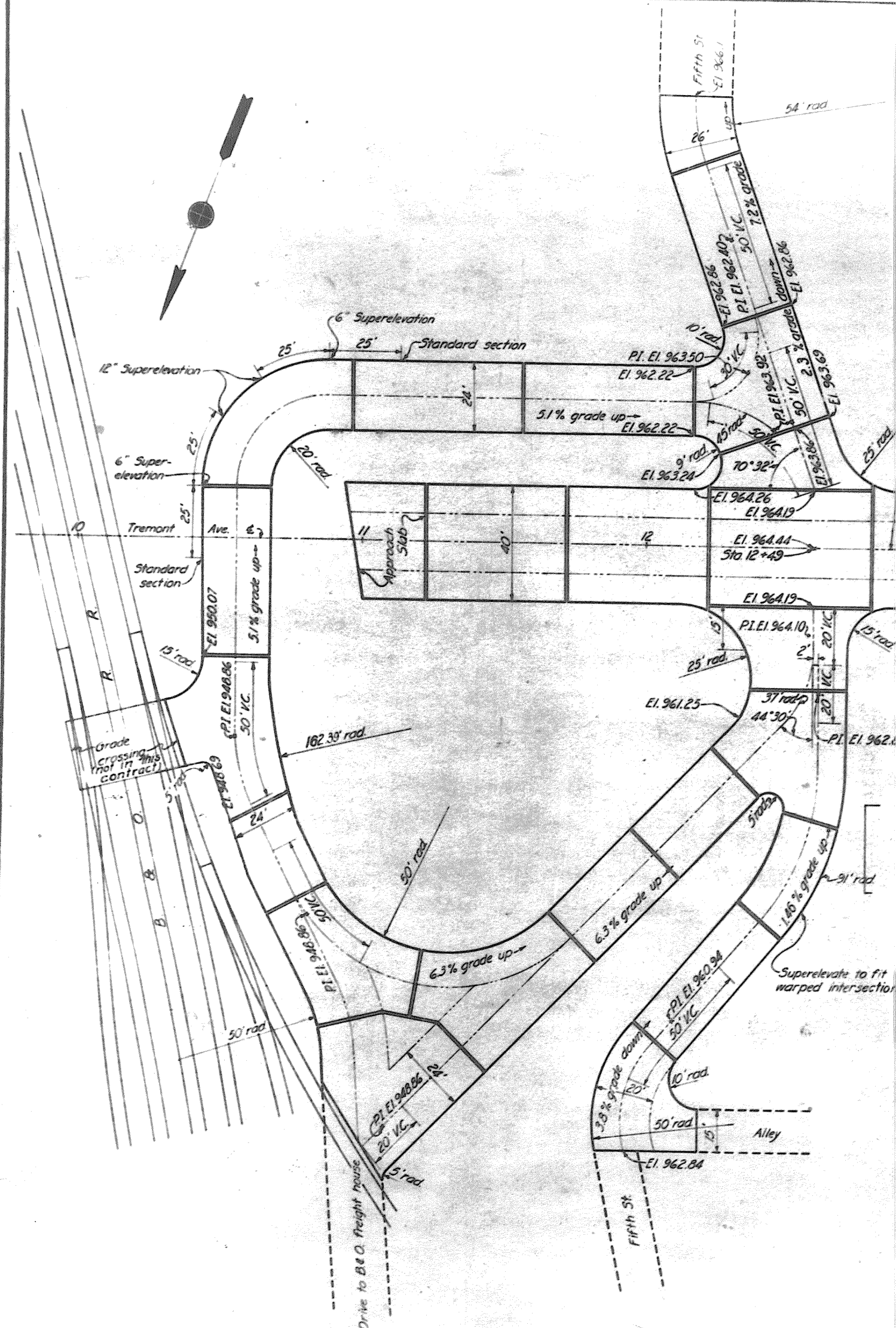
Manhole cover, pulling-in irons and sections of vitrified clay duct to be furnished by the Ohio Bell Telephone Company and installed by the Contractor.
Conduit must be at least 10 1/2" below top of sidewalk to insure clearance of all light standards.

**TUSCARAWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO
SECTION 2 - UNIT 1
TREMONT AVENUE VIADUCT
UTILITY MANHOLE DETAILS**

18 37 SHEETS SHEET NO. 29 SCALE: 3/4" = 1'-0"
APRIL 1947
HUNTINGTON DISTRICT, CORPS OF ENGINEERS, WAR DEPT.
SUBMITTED FOR APPROVAL
APPROVED
ENGINEER
TECHNICAL ASSISTANT
COLONEL, CORPS OF ENGINEERS
DRAWN BY T.D.
CHECKED BY T.D.
FILE NO 0271-PM2-66/35 DATED

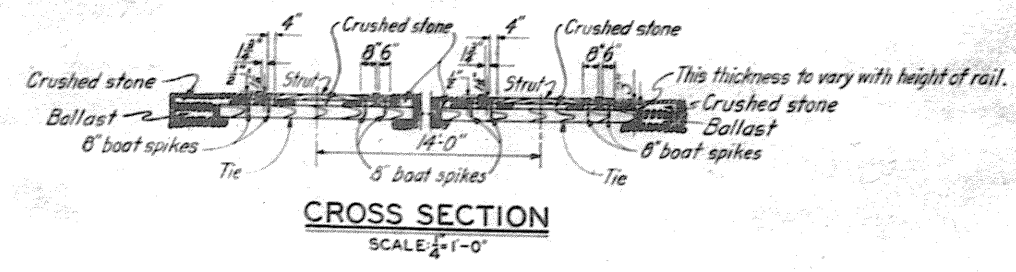
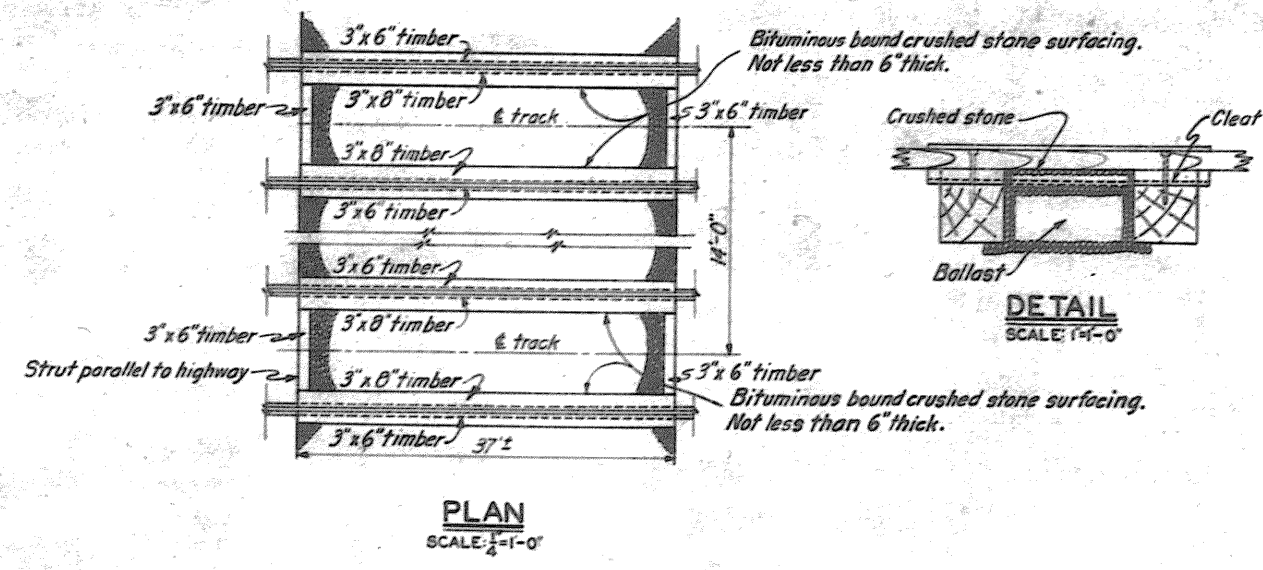
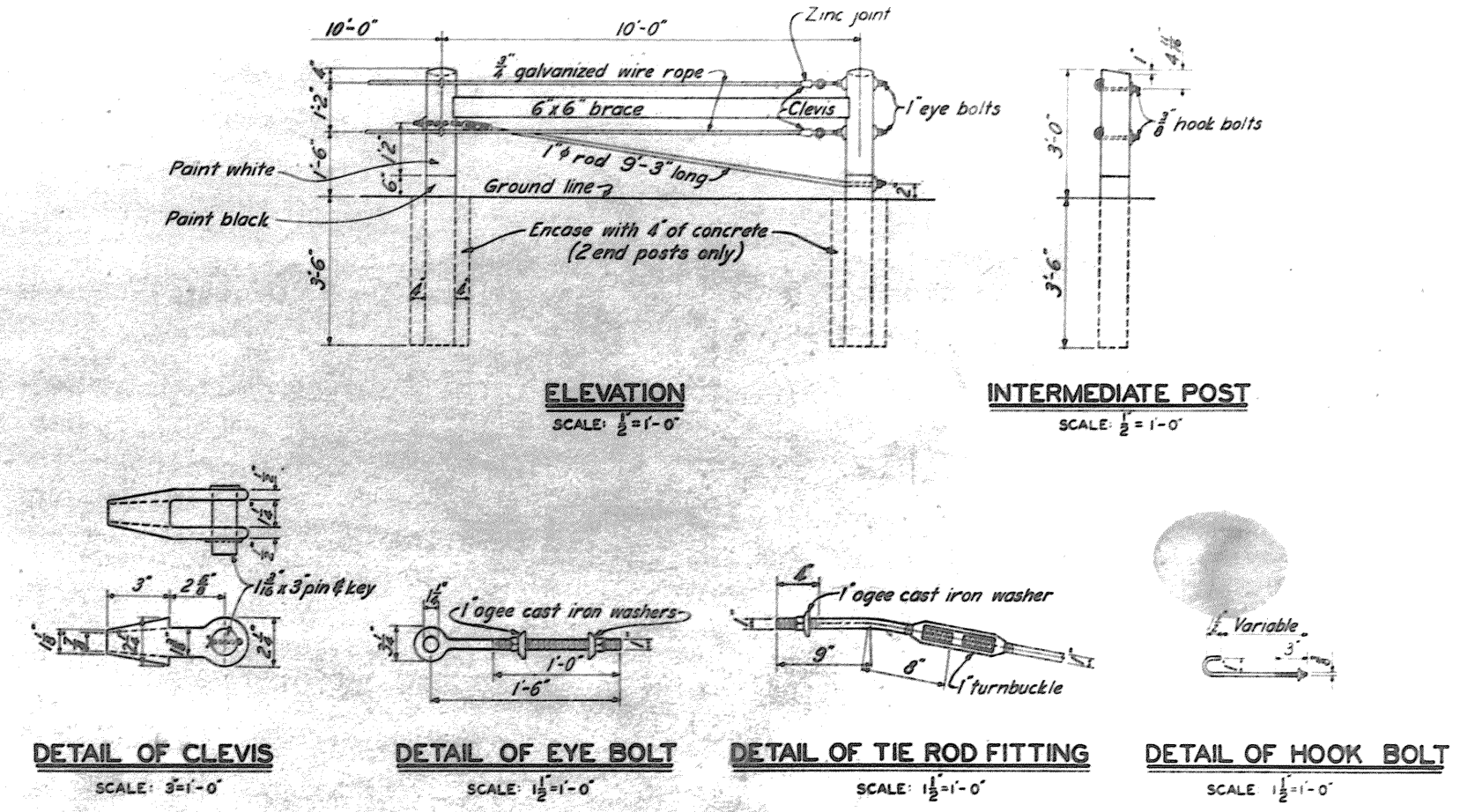
NO.	DATE	REVISIONS
1	2-11-48	MANHOLE FRAME AND COVER DELETED AT PIER NO. 2 AND 10
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		

WORK AS CONSTRUCTED



**APPROACHES TO FIFTH STREET
AND B. & O. FREIGHT HOUSE DRIVE**
SCALE: 1"=20'

LEGEND
Expansion joint
Longitudinal joint
LAYOUT OF APPROACHES

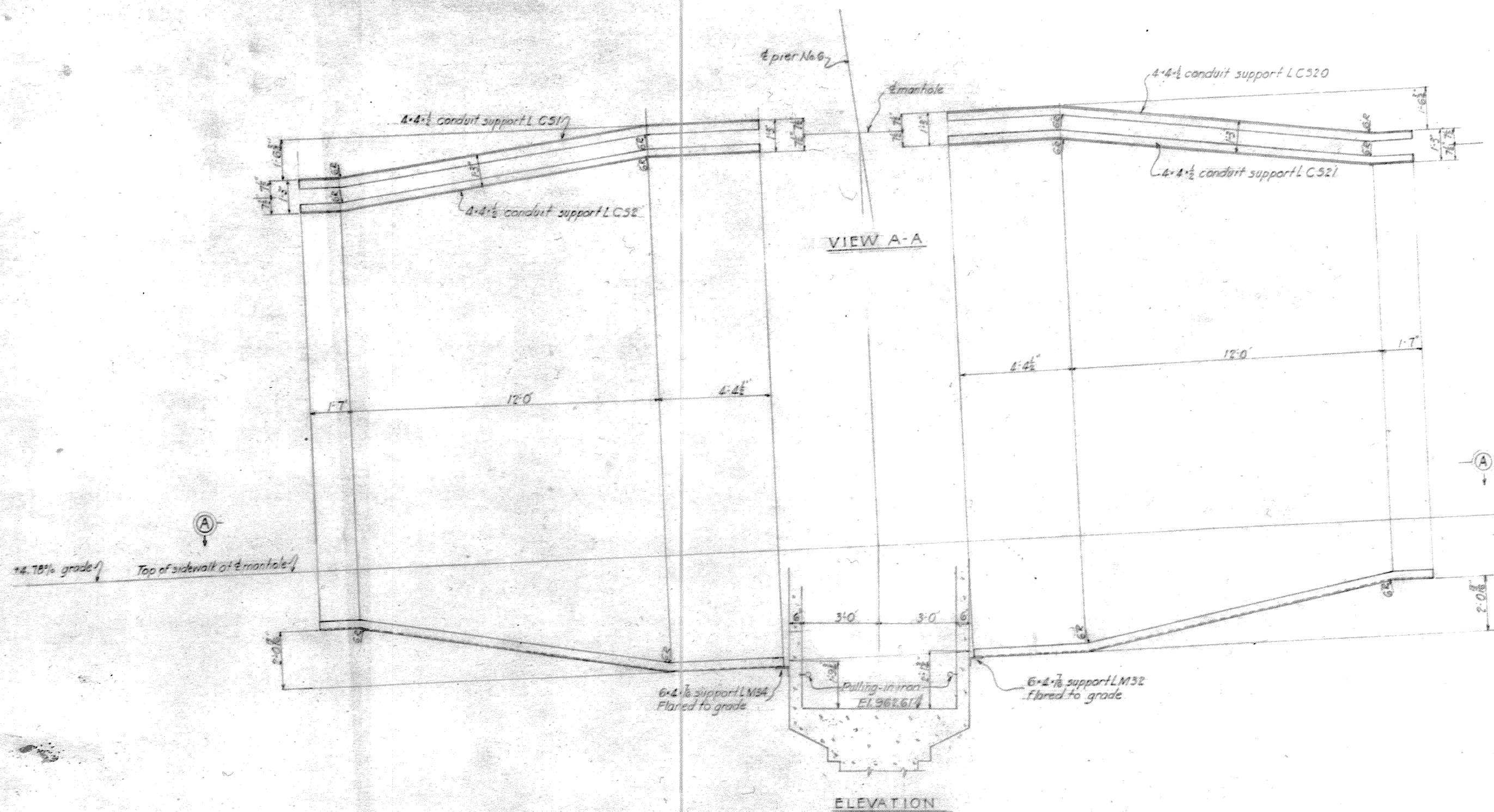


GRADE CROSSING DETAILS

**TUSCARAWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO
SECTION 2 - UNIT 1
MISCELLANEOUS PAVEMENT
DETAILS AND ACCESS ROAD** APRIL 1947

M.W.	8-11-53	REVISED AS CONSTRUCTED.	
H.O.W.	6-20-47	REVISED TO AGREE WITH ADDENDUM NO. 1	
BY	DATE	CHARACTER	
REVISIONS			

WORK AS CONSTRUCTED

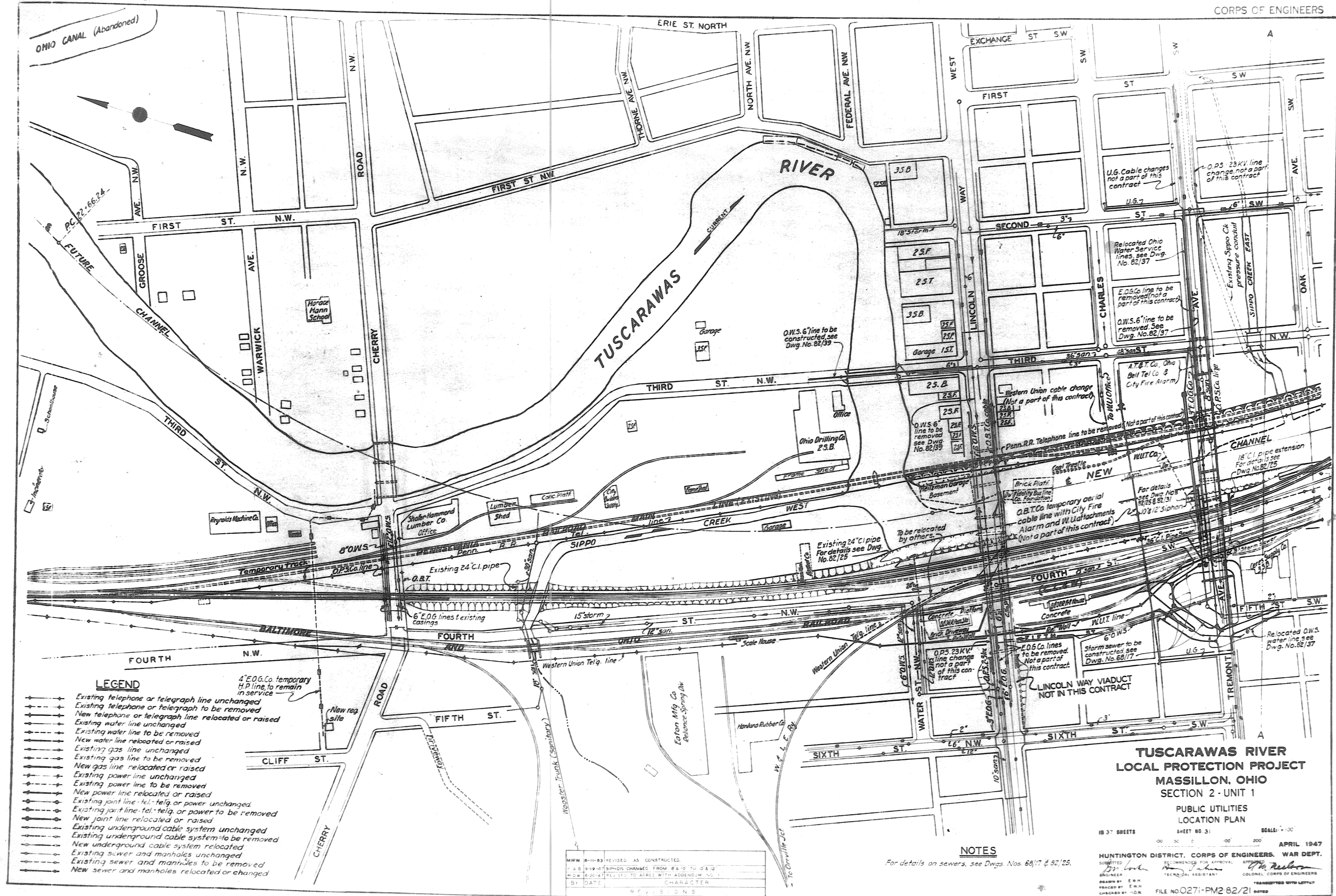


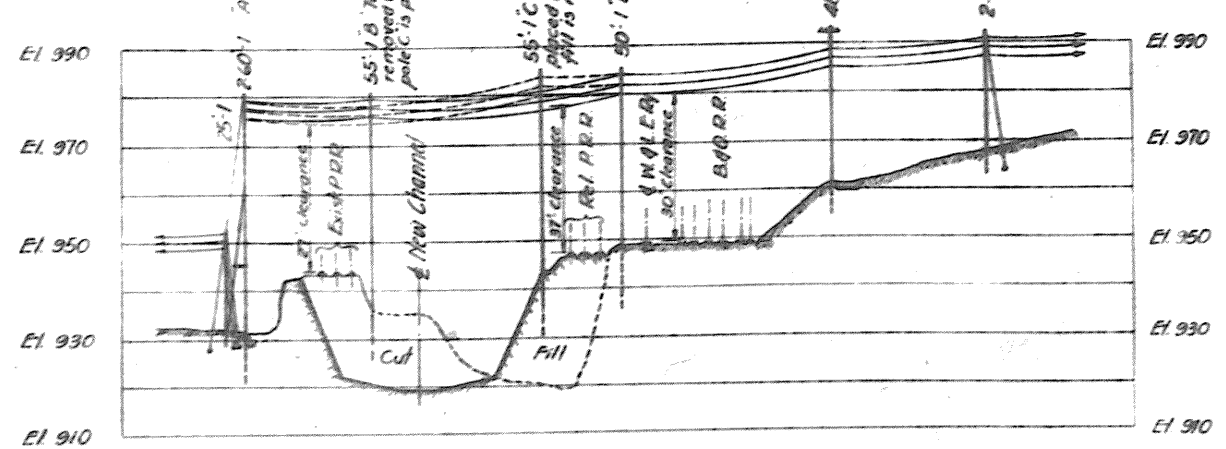
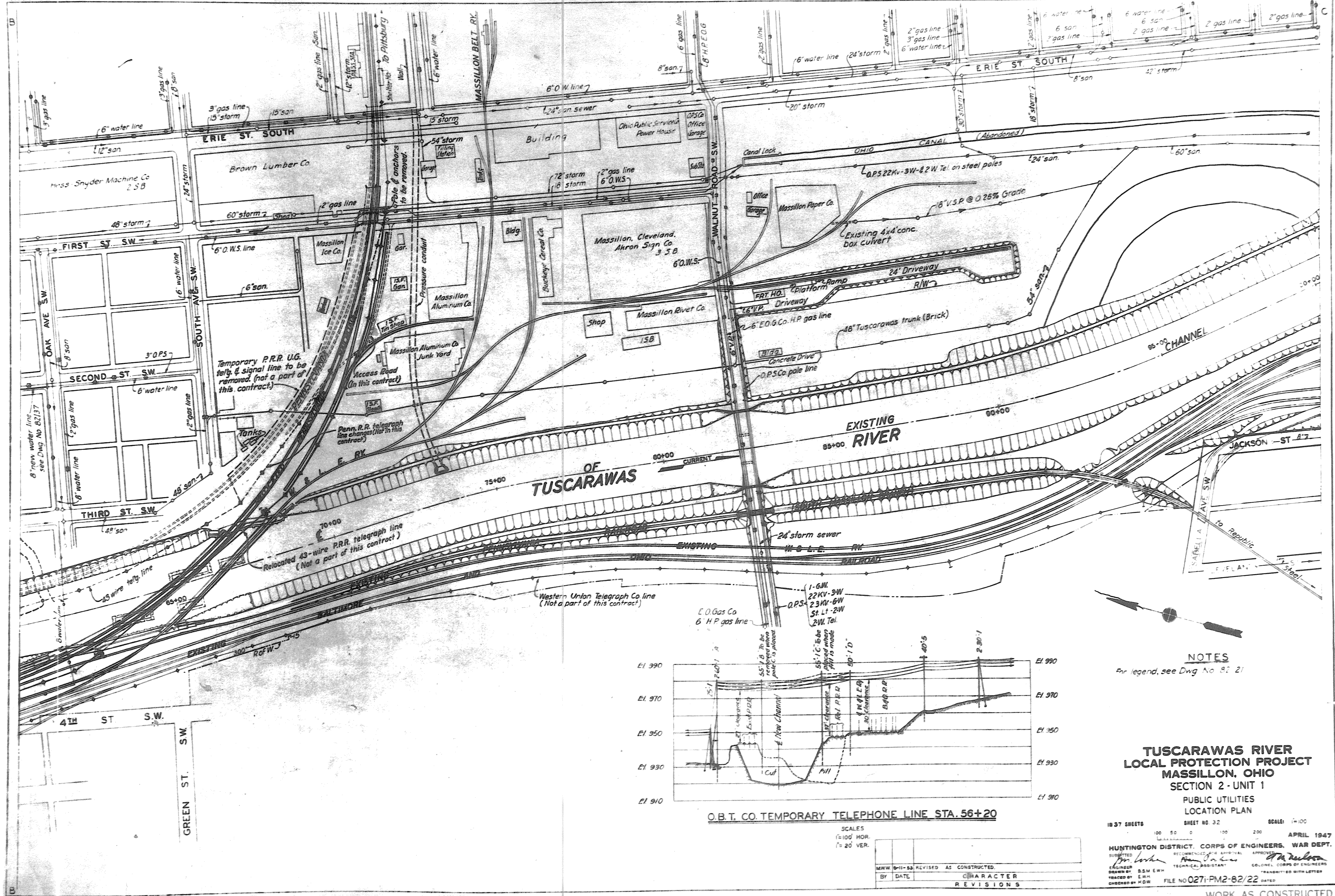
TUSCARAWAS RIVER
 LOCAL PROTECTION PROJECT
 MASSILLON, OHIO
 SECTION 2 - UNIT 1
 TREMONT AVENUE VIADUCT
 CONDUIT SUPPORT ANGLES AT PIER NO. 6

HUNTINGTON DISTRICT, CORPS OF ENGINEERS, FEB. 1948

DRAWN BY A.W.S.
 CHECKED BY R.W.D. FILE NO 0271-PM2-68/35A

WORK AS CONSTRUCTED





NOTES
For legend, see Dwg No. 82-21

**TUSCARAWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO
SECTION 2 - UNIT 1**

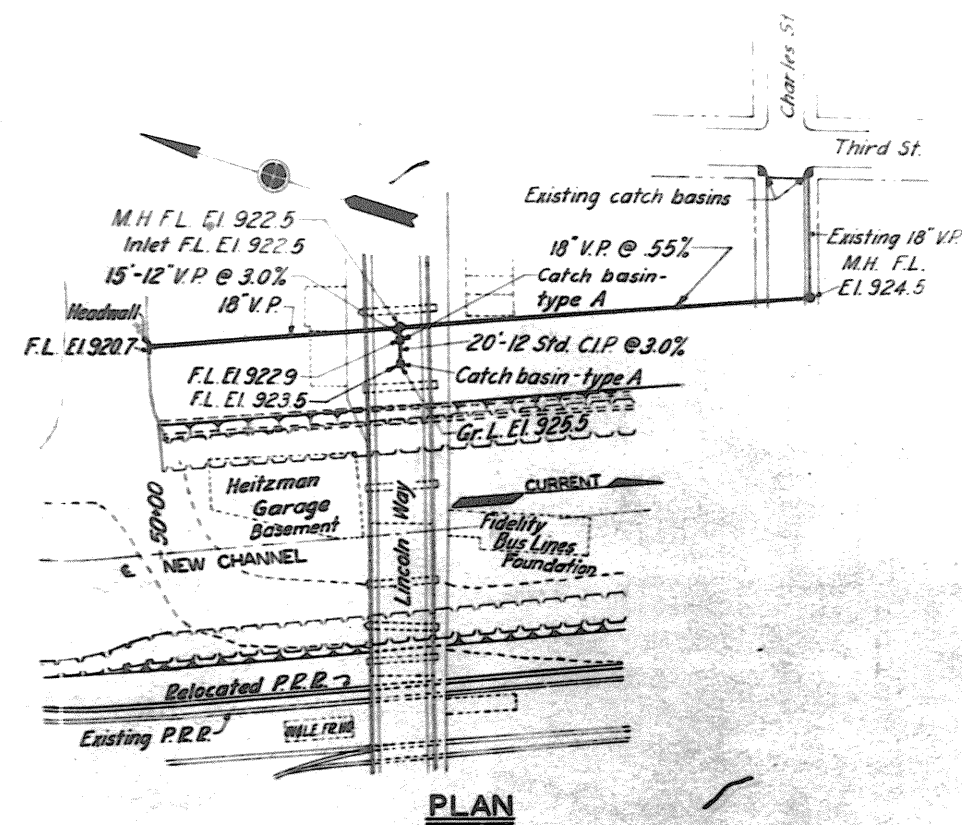
PUBLIC UTILITIES
LOCATION PLAN

10 37 SHEETS SHEET NO. 32 SCALE: 1"=100'

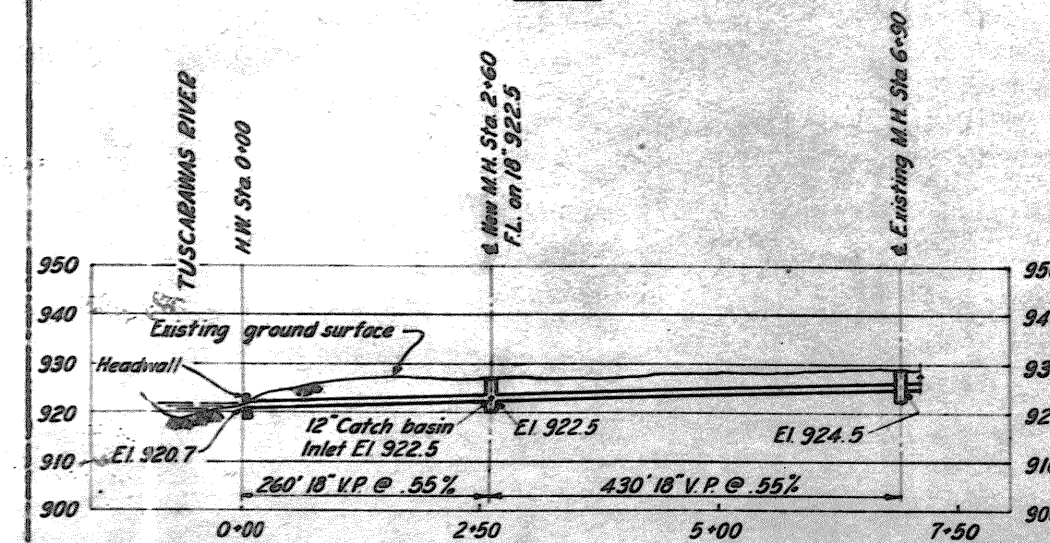
DATE	BY	REVISIONS
APRIL 1947		

HUNTINGTON DISTRICT, CORPS OF ENGINEERS, WAR DEPT.
SUBMITTED BY: [Signature]
DESIGNED BY: B.S.M. E.W.H.
CHECKED BY: E.W.H.
FILE NO. 0271-PM2-82/22
DATE: APRIL 1947
TRANSMITTED WITH LETTER

WORK AS CONSTRUCTED

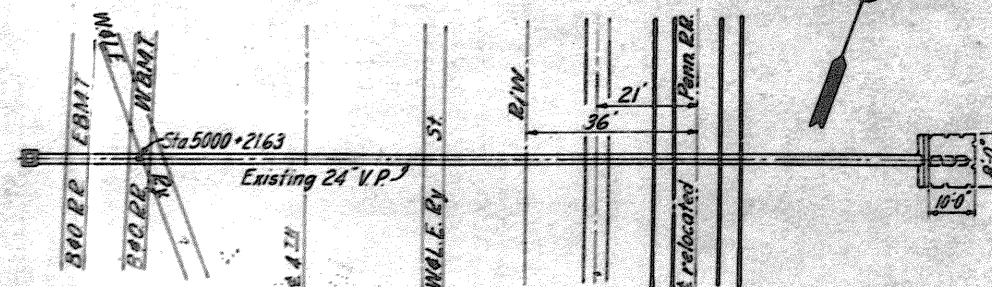


PLAN



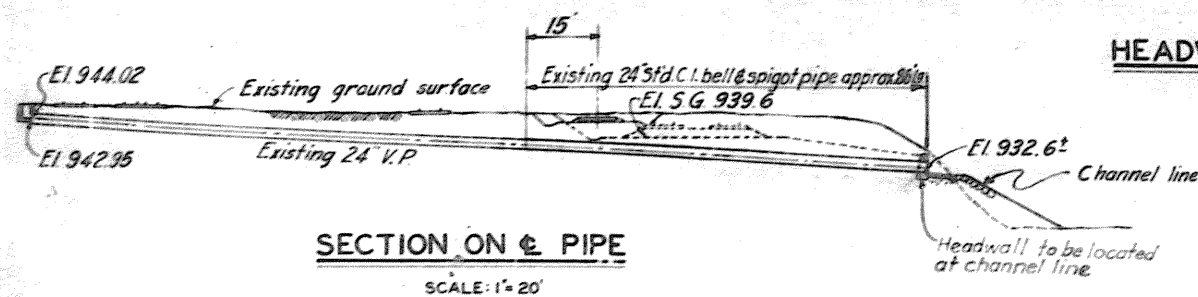
PROFILE

CHARLES ST. AND LINCOLN WAY

SCALE: HORIZ. 1"=100'
VERT. 1"=20'

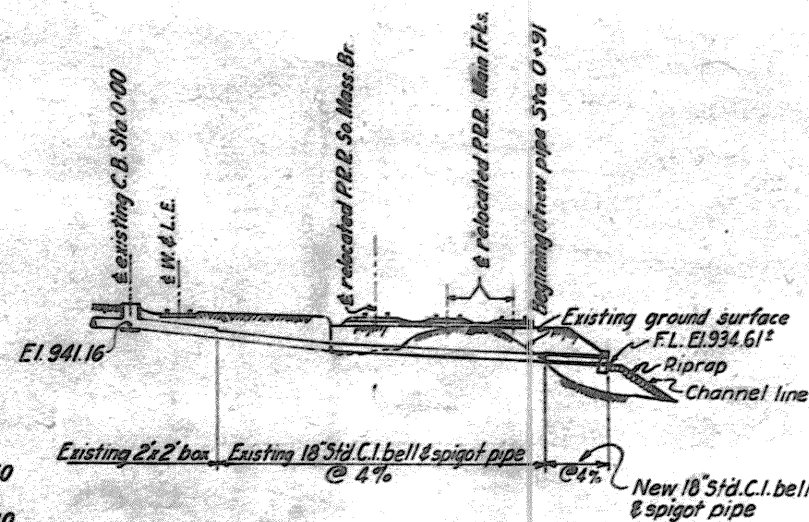
PLAN

WATER ST. NW

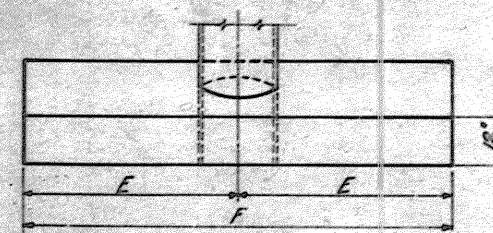


SECTION ON 6 PIPE

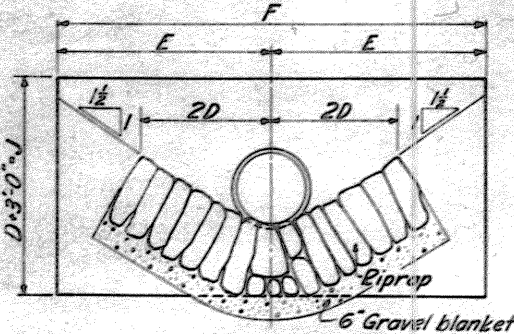
SCALE: 1"=20'



SECTION ON 18 C.I. PIPE

SOUTH SIDE TREMONT AVE.
SCALE: 1"=20'

PLAN

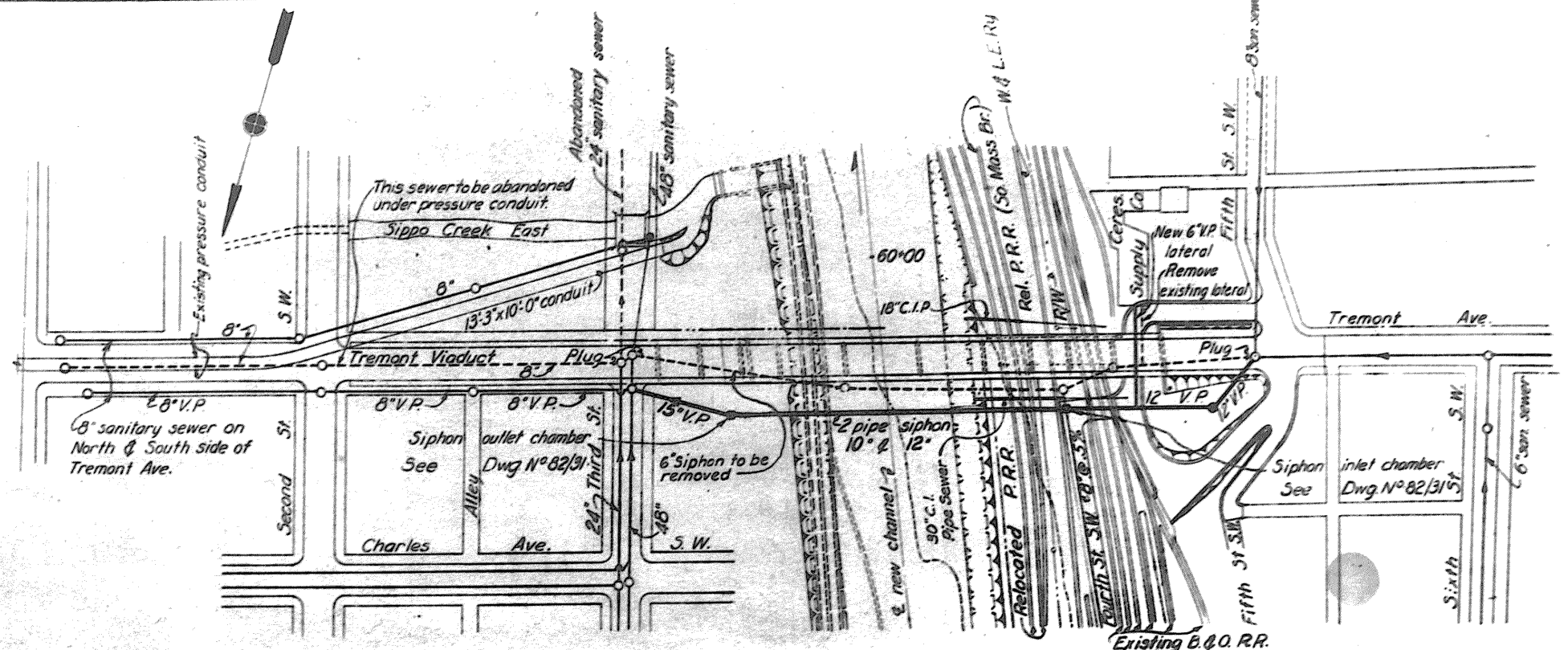


ELEVATION

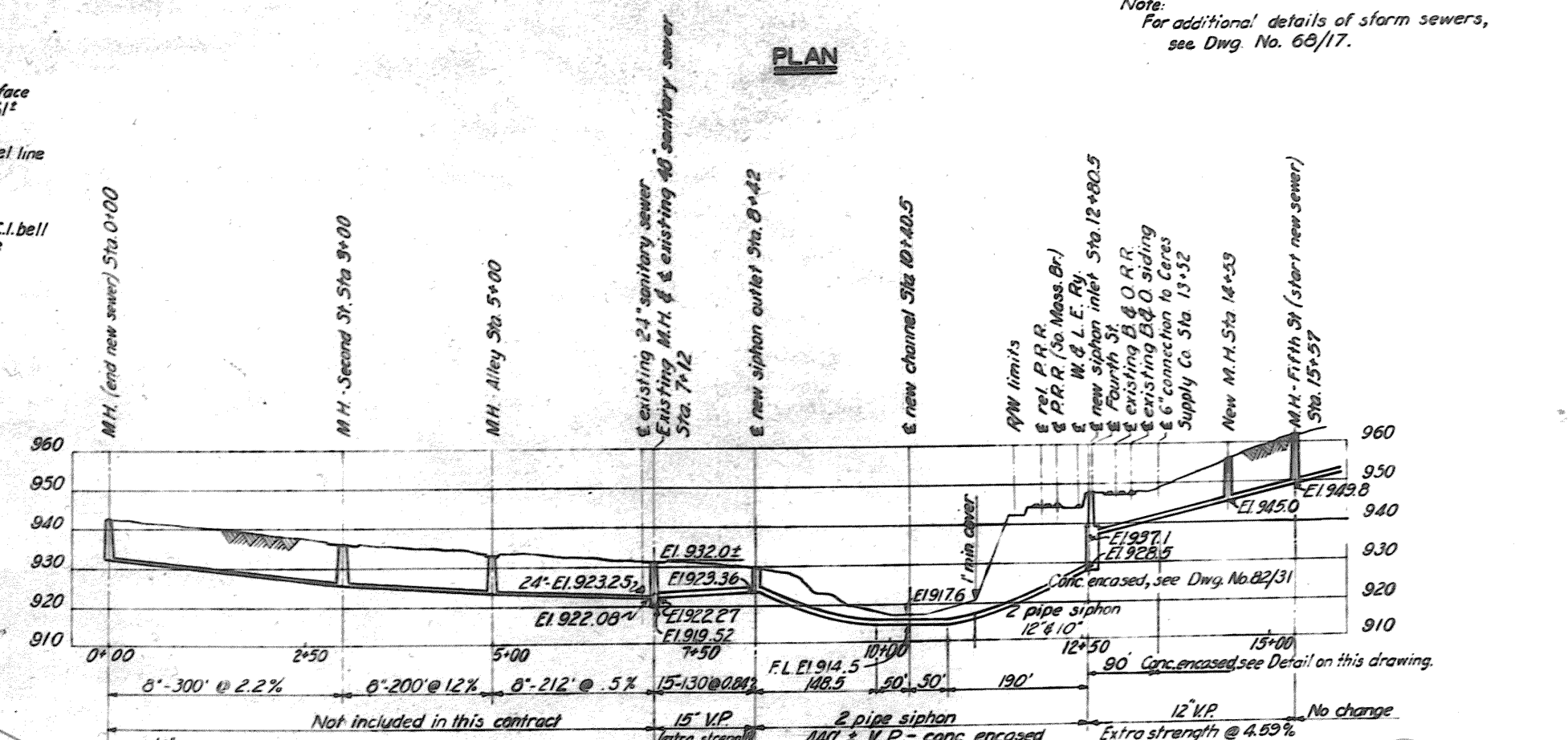
HEADWALL WITHOUT FLAP GATE

NOT TO SCALE

DIA. OF PIPE	DIMENSIONS				
D	E	F	J	G	
12"	3'-9"	7'-6"	4'-0"	2'-0"	
18"	4'-6"	9'-0"	4'-6"	2'-1/2"	
24"	5'-3"	10'-6"	5'-0"	2'-3"	
30"	6'-0"	12'-0"	5'-6"	2'-4"	
36"	6'-9"	13'-6"	6'-0"	2'-6"	

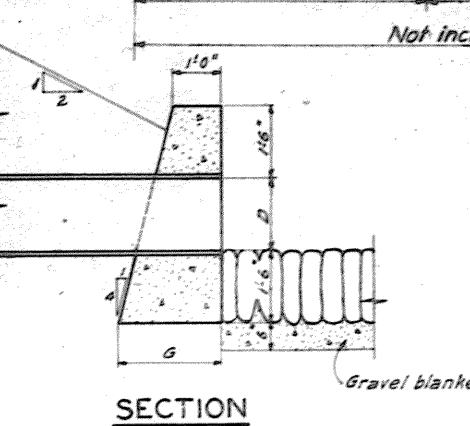


PLAN

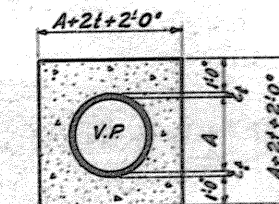


PROFILE

TREMONT AVE. 2-PIPE SIPHON & SANITARY SEWER

SCALE: HORIZ. 1"=100'
VERT. 1"=20'

SECTION

A = Diameter of pipe
t = Wall thickness

DETAIL OF CONCRETE CASING

NOT TO SCALE

NOTES

For Tremont Ave. siphon chamber, see Dwg. No. 82/31.1
For manhole and sewer details, see Dwg. No. 82/36
For general plan, see Dwg. No. 16/2 and 16/3
For general utility plan, see Dwg. No. 82/21
On storm sewers shown V.P., pipe can be either V.P. or Conc.
For sewer profiles not shown on this drawing, see Dwg. No. 68/17.

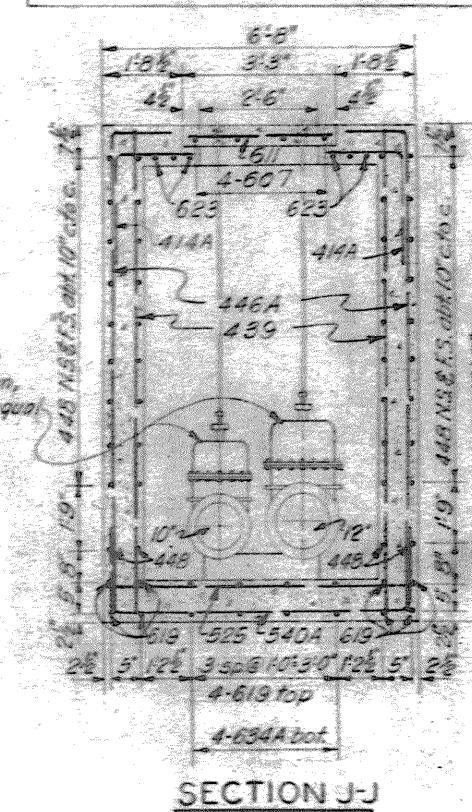
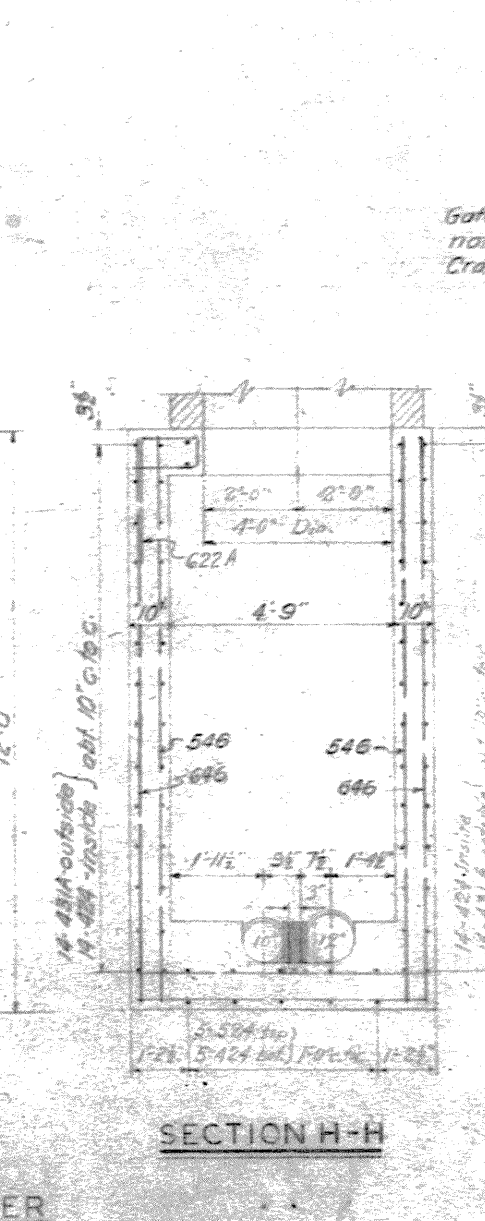
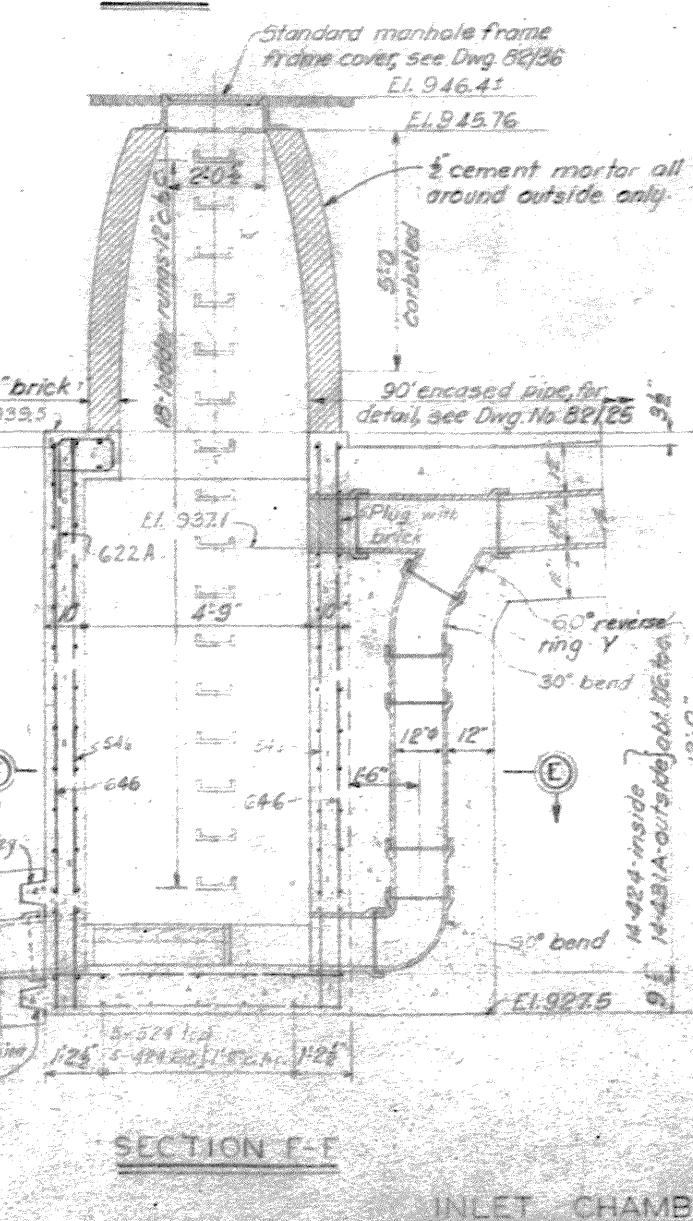
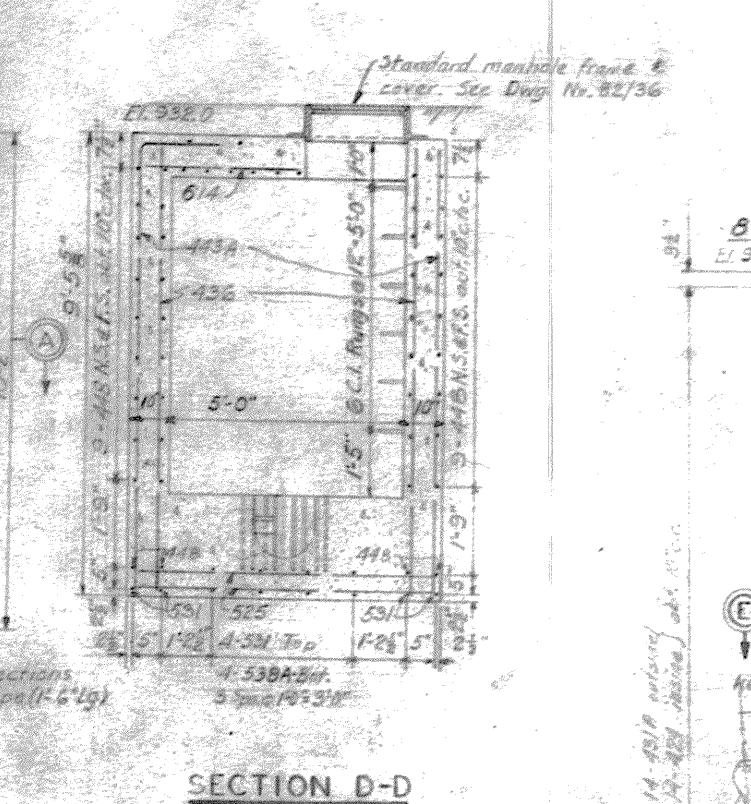
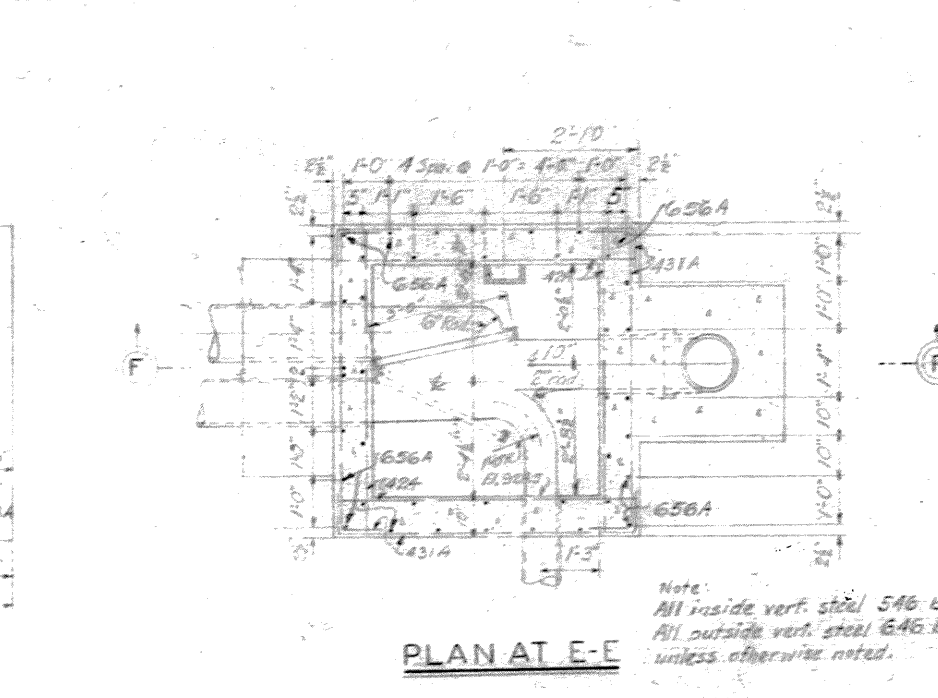
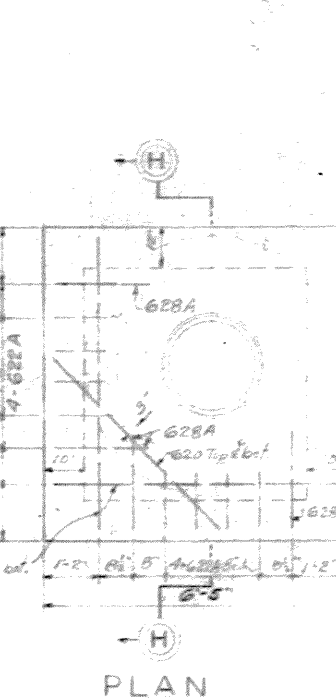
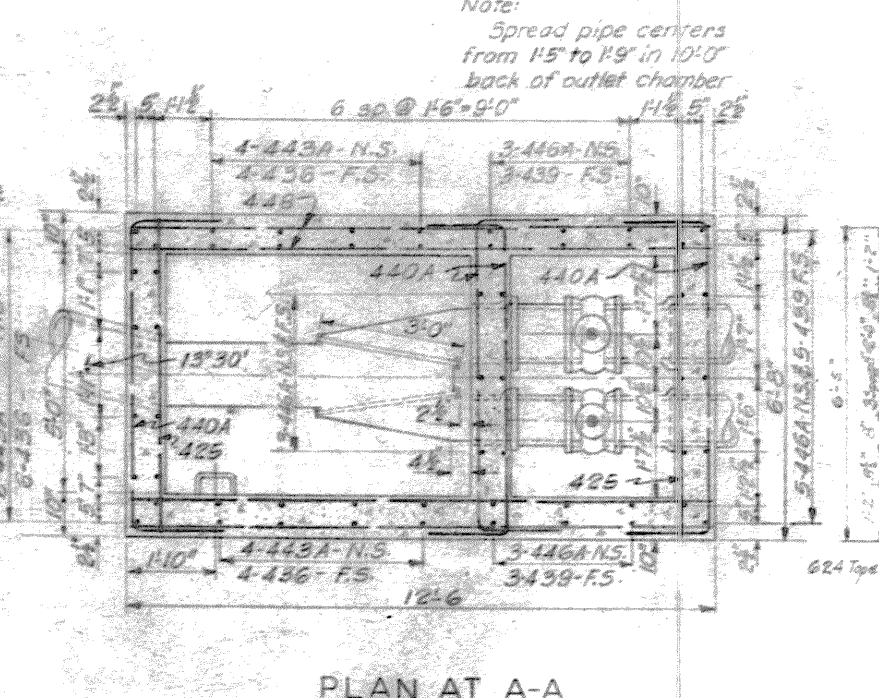
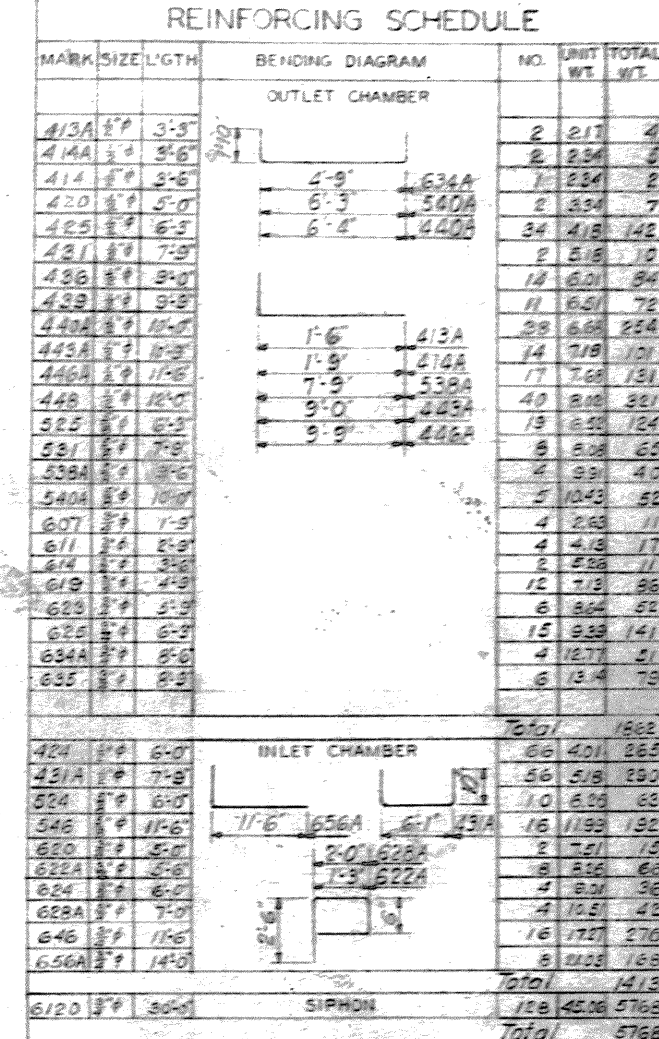
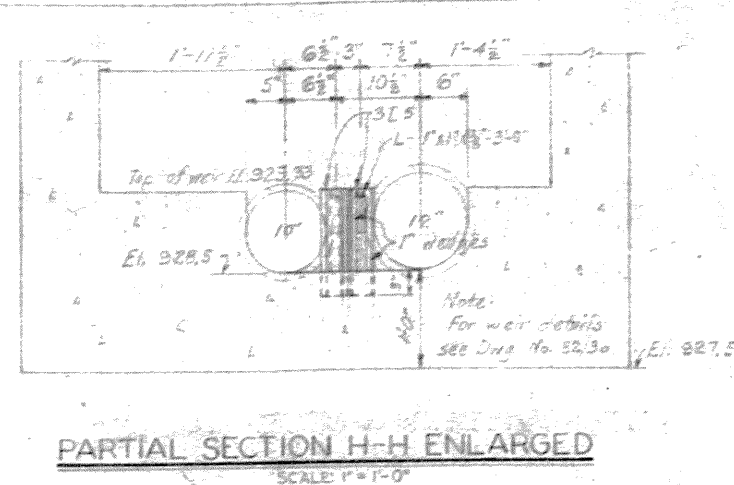
**TUSCARAWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO
SECTION 2 - UNIT 1**

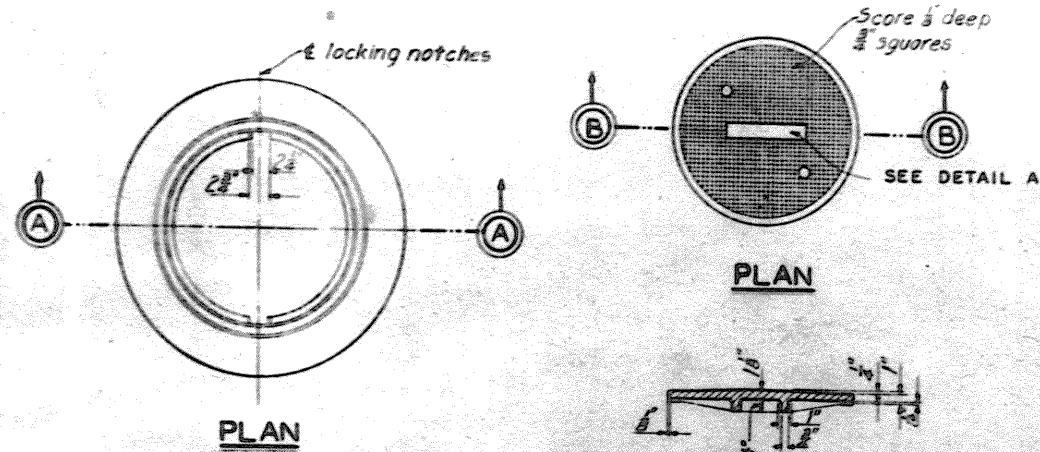
SEWER CHANGES

10 37 SHEETS
SHEET NO. 33
SCALE: AS SHOWN
APRIL 1947
HUNTINGTON DISTRICT, CORPS OF ENGINEERS, WAR DEPT.
SUBMITTED: [Signature]
RECOMMENDED FOR APPROVAL: [Signature]
ENGINEER: [Signature]
DRAWN BY: B.S.M.
CHECKED BY: H.O.W.
FILE NO. 0271-PM2-82/25
TRANSMITTED WITH LETTERS

BY	DATE	REVISIONS
H.S.B.	9-10-47	SIPHON REDESIGNED TO SUIT EXISTING FIELD CONDITIONS
M.O.W.	6-20-47	REVISED TO AGREE WITH ADDENDUM NO. 1
		CHARACTER

WORK AS CONSTRUCTED

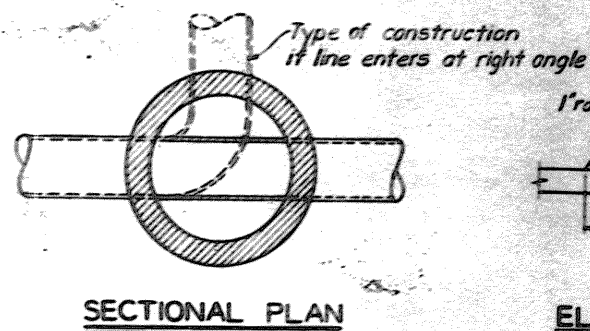




SECTION A-A

FRAME

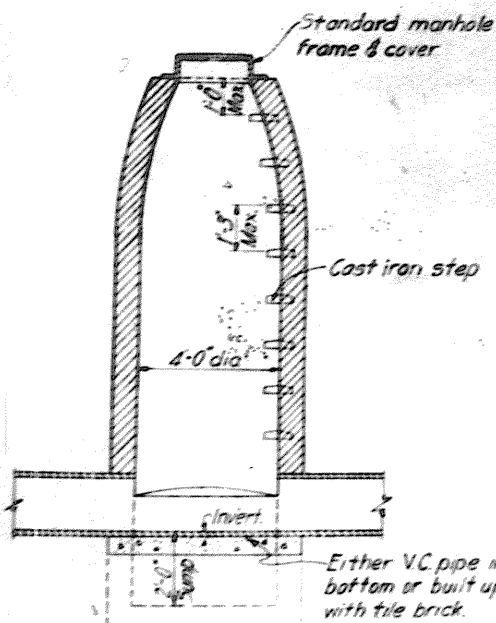
CAST IRON
SCALE: 1"=1'-0"
NO. REQ'D 10
RECLAIMED & SALVAGED



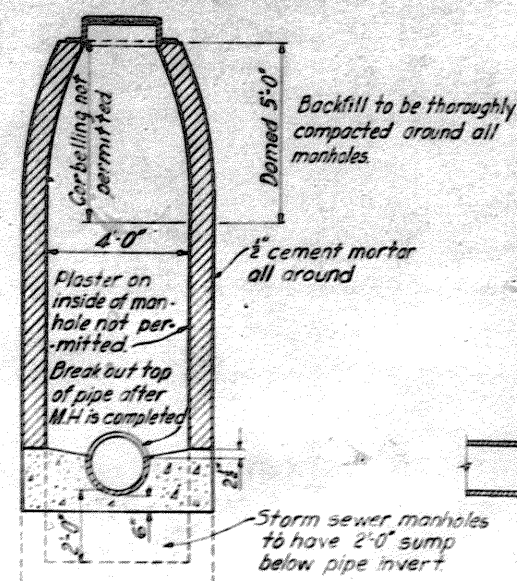
SECTIONAL PLAN

ELEVATION C-C

SIDE

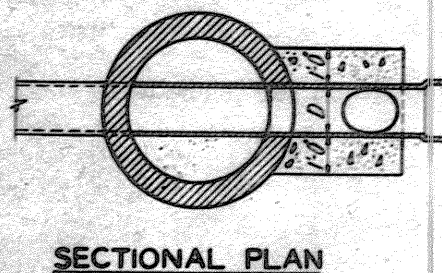


TYPICAL MANHOLE

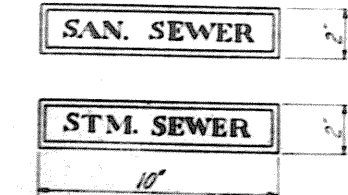


STORM AND SANITARY SEWER MANHOLES

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



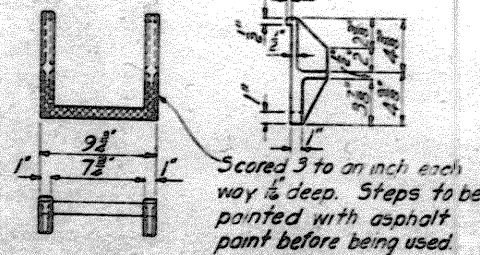
DROP MANHOLE



Name to indicate type of sewer

DETAIL A

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



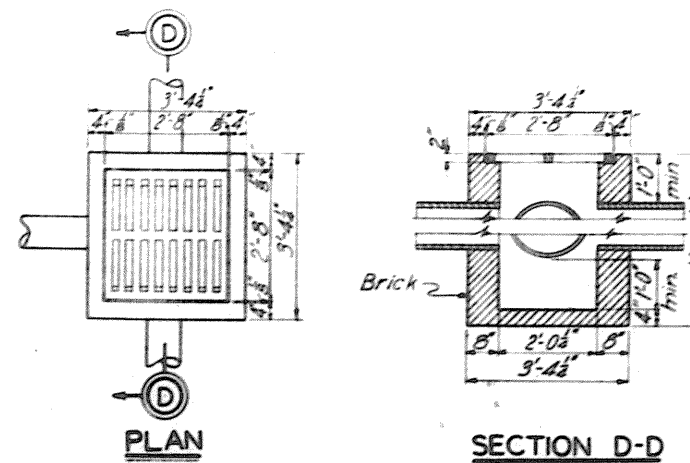
DETAIL CAST IRON STEP

SCALE: 1/2"=1'-0"

NO. REQ'D - 42

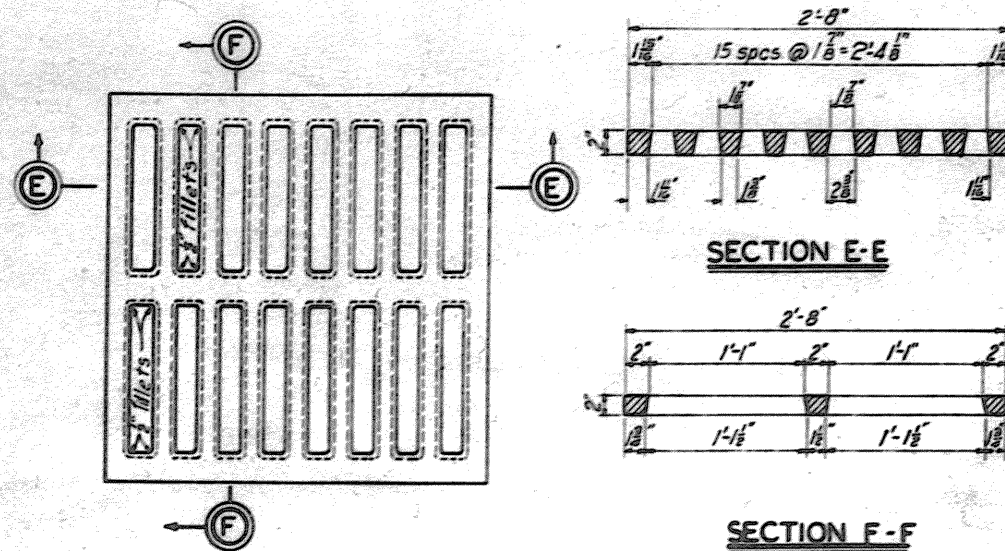
MANHOLE DEPTH	THICKNESS
From 0 to 16 feet	8 1/2 inches
From 16 to 22 feet	13 inches
Over 22 feet	18 inches

WALL THICKNESS



DETAILS OF TYPE A CATCH BASIN

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



PLAN

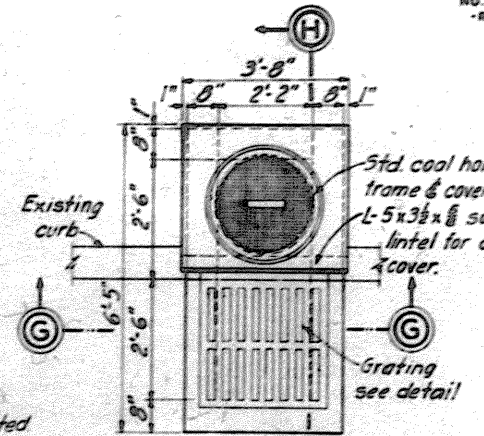
INLET GRATING

SCALE: 1/2"=1'-0"

CAST IRON

NO. REQ'D 2

RECLAIMED & SALVAGED



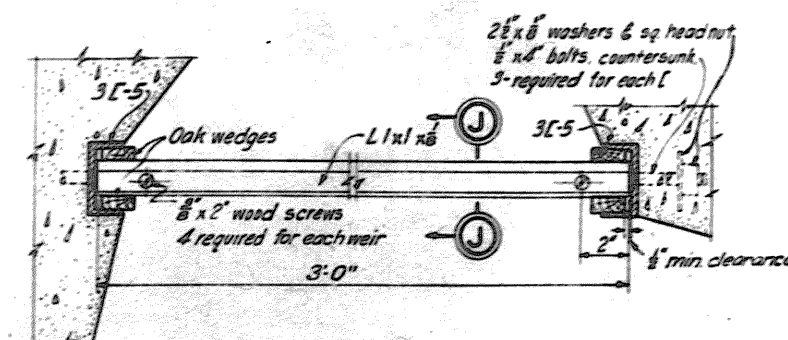
PLAN

SECTION G-G

SECTION H-H

DETAILS OF TYPE B CATCH BASIN

SCALE: 1/2"=1'-0"



PLAN

SECTION J-J

WEIR FOR SIPHONS

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

NOTE

For location of weirs for siphons, see Dwg. No. 82/31.1

TUSCARAWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO
SECTION 2 - UNIT 1

MISCELLANEOUS SEWER DETAILS

103 37 SHEETS SHEET NO. 35 SCALE: AS SHOWN

HUNTINGTON DISTRICT, CORPS OF ENGINEERS, WAR DEPT.

APRIL 1947

RECOMMENDED BY APPROVAL

ENGINEER

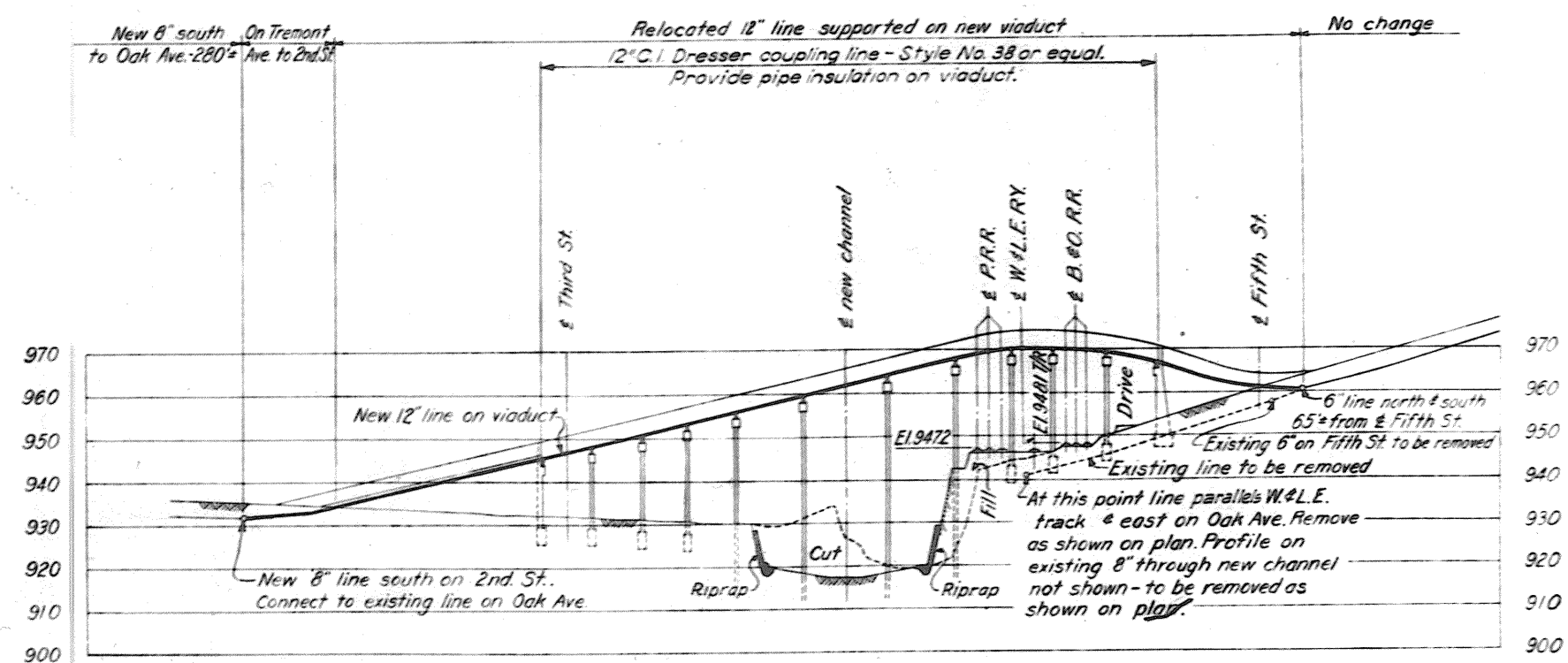
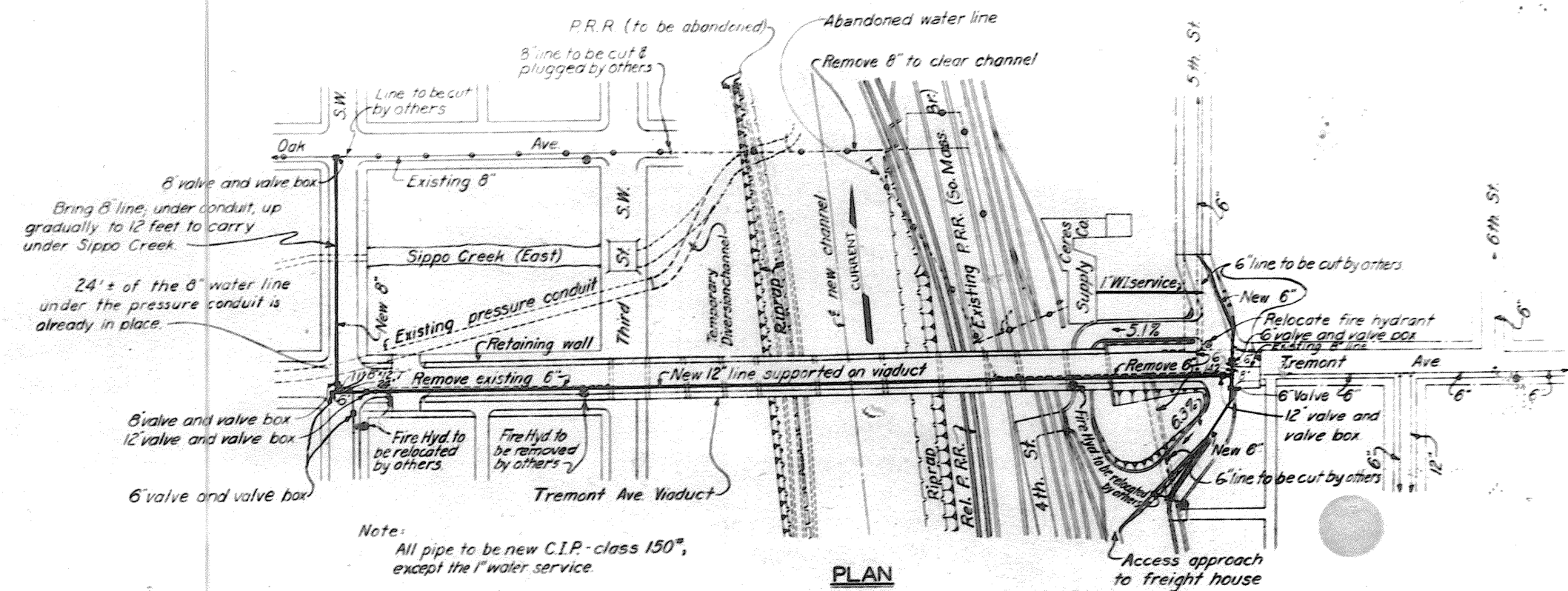
TECHNICAL ASSISTANT

COLONEL CORPS OF ENGINEERS

TRANSMITTED WITH LETTER

FILE NO. 027-PM2-82/36 DATED

WORK AS CONSTRUCTED



NOTES

For utility location plans, see Dwg. No. 82/21
For method of supporting pipe on Tremont Ave Viaduct
structure, see Dwg. No. 68/32.
For details of Tremont Ave Viaduct east and west
abutments, see Dwg. Nos. 68/18 and 68/24.

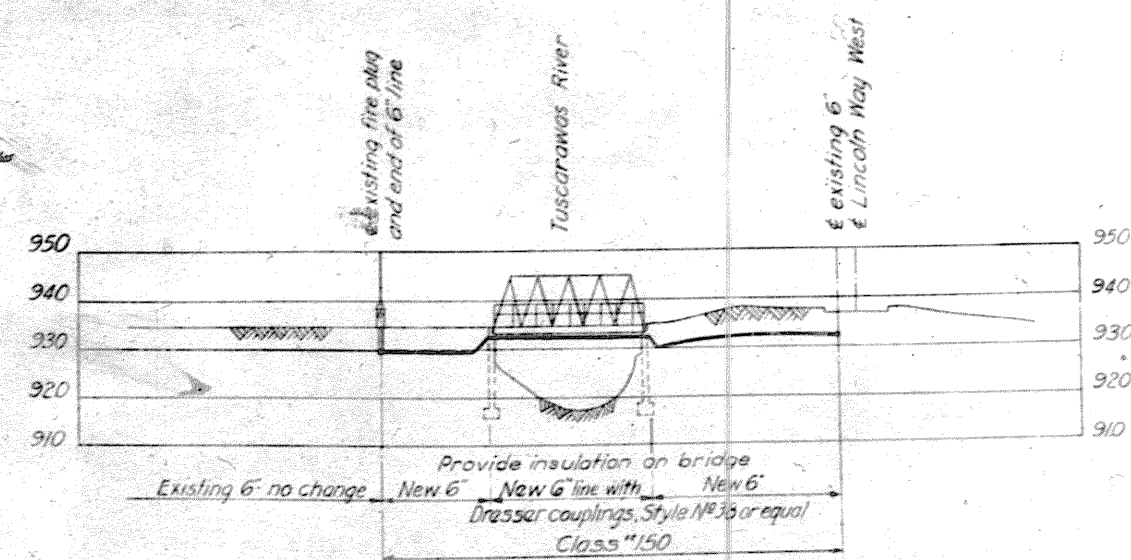
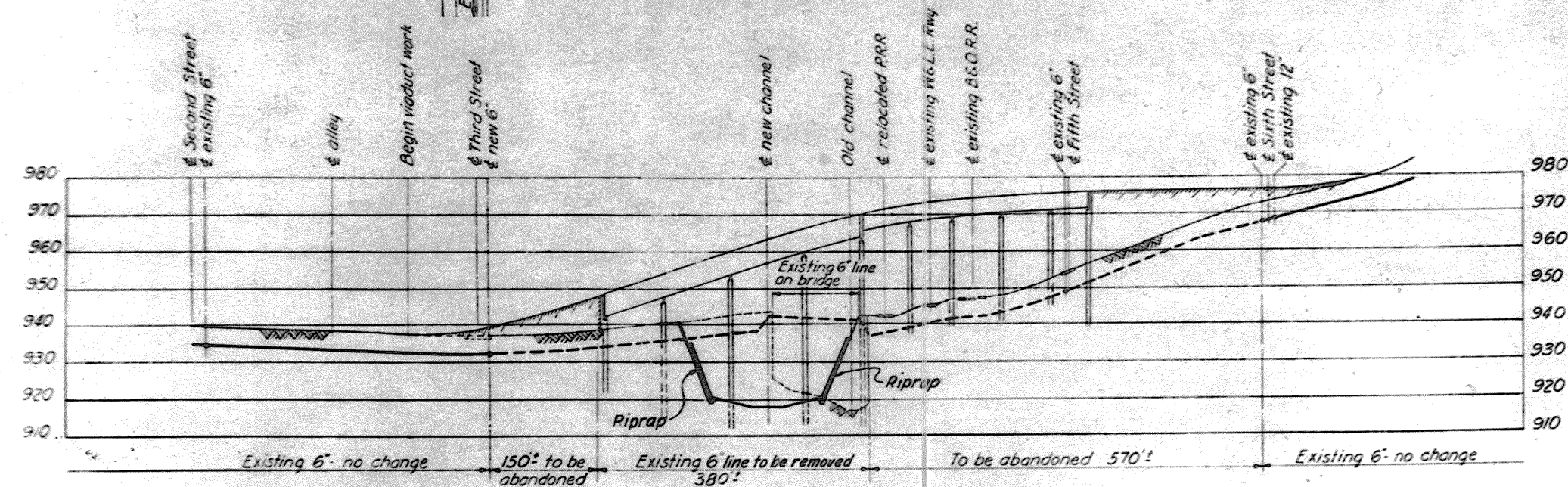
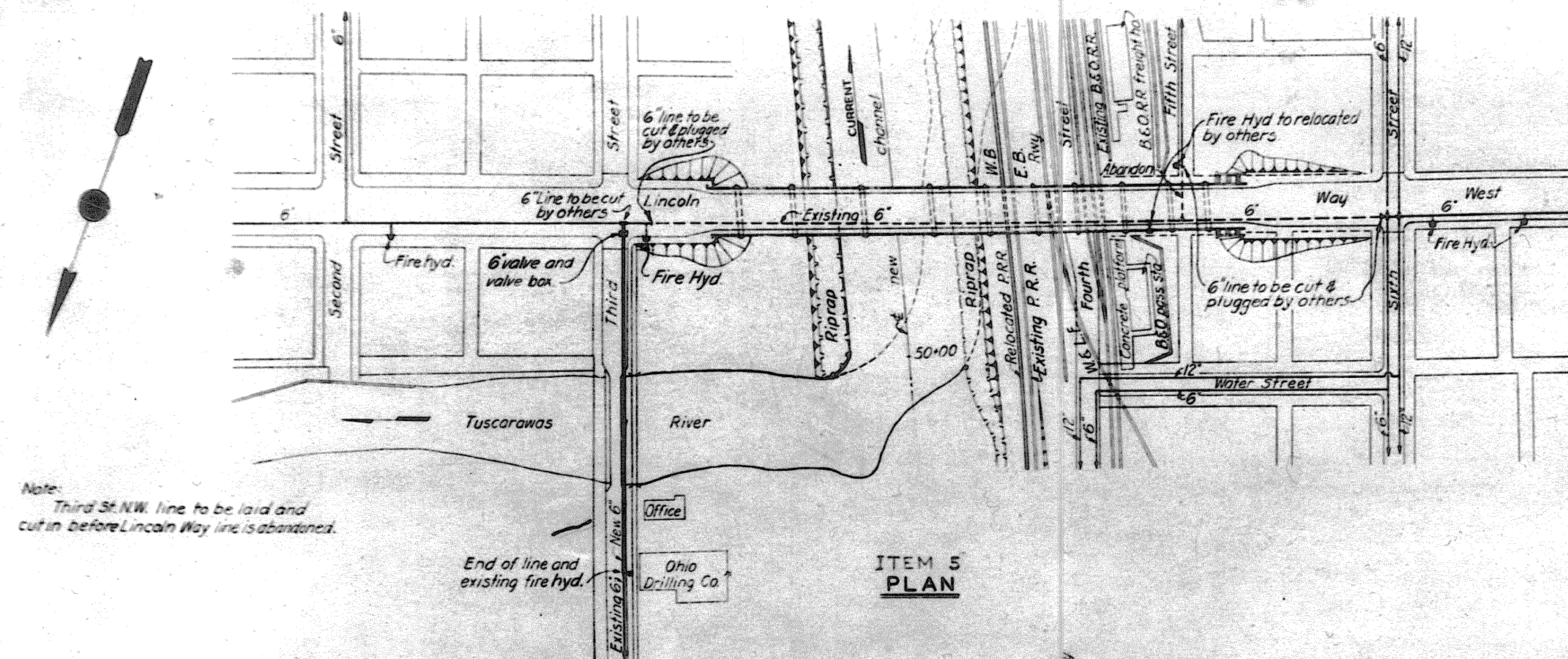
**TUSCARAWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO
SECTION 2 - UNIT 1**

OHIO WATER SERVICE CO. CHANGES
TREMONT AVENUE

IN 37 SHEETS SHEET NO. 36 SCALE: HORIZ. 1" = 100' VERT. 1" = 20' APRIL 1947
HUNTINGTON DISTRICT, CORPS OF ENGINEERS, WAR DEPT.
SUBMITTED FOR APPROVAL
ENGINEER: *[Signature]* TECHNICAL ASSISTANT: *[Signature]* COLONEL, CORPS OF ENGINEERS
DRAWN BY: B.S.M. E.W.H. CHECKED BY: B.S.M. FILE NO. 027-PM2-82/37 DATED: *[Signature]*

M.W.W. 8-11-53	REVISED AS CONSTRUCTED
H.O.W. 6-20-47	REVISED TO AGREE WITH ADDENDUM NO. 1
BY: LATE	CHARACTER
REVISIONS	

WORK AS CONSTRUCTED



NOTES

For general plans, see Dwg. Nos. 16/2 & 16/3
For general utility plans see Dwg. No. 87/21 6/2/22

**TUSCARAWAS RIVER
LOCAL PROTECTION PROJECT
MASSILLON, OHIO**

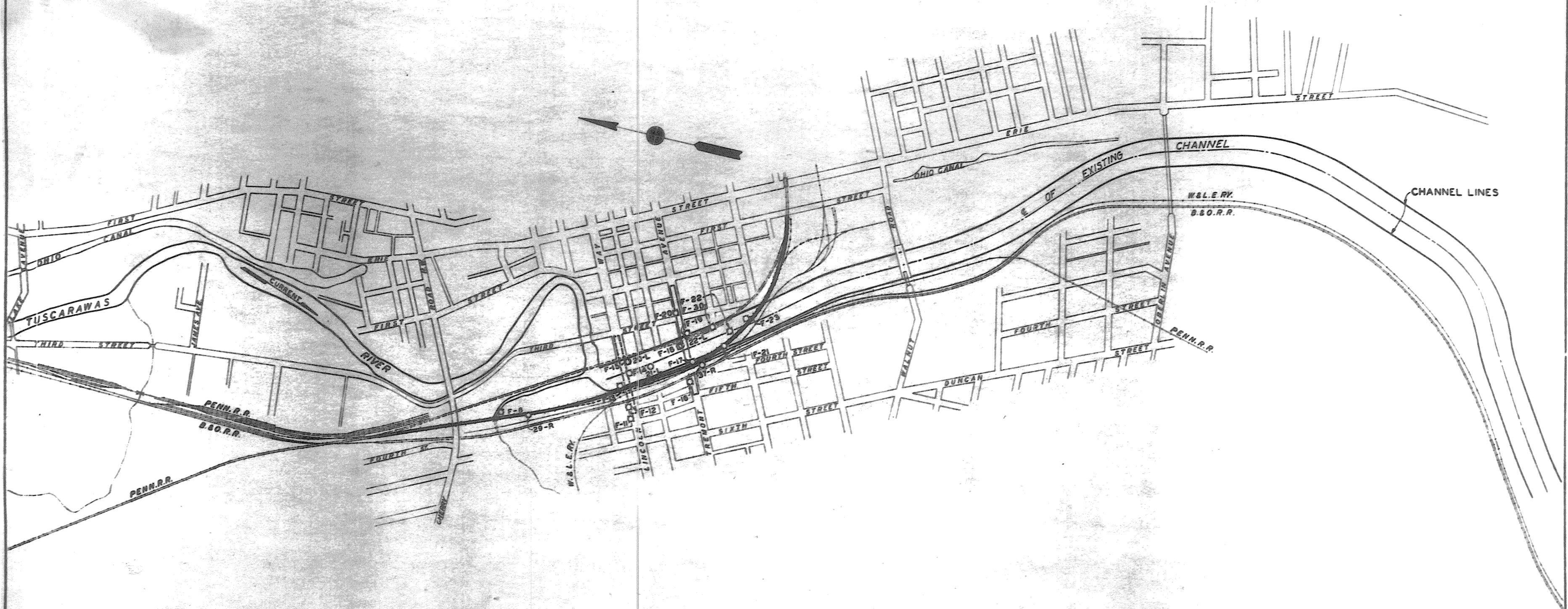
SECTION 2 - UNIT 1

OHIO WATER SERVICE CO. CHANGES
LINCOLN WAY

10 37 SHEETS SHEET NO. 37 SCALE: HORIZ. 1"=20' VERT. 1"=20' APRIL 1947
HUNTINGTON DISTRICT, CORPS OF ENGINEERS, WAR DEPT.
SUBMITTED BY: [Signature] RECOMMENDED FOR APPROVAL: [Signature] APPROVED: [Signature]
DESIGNED BY: C.W.H. B.S.M. TECHNICAL ASSISTANT: [Signature] COLONEL, CORPS OF ENGINEERS
CHECKED BY: H.C.M. FILE NO. 0271-PM2-62/39 DATED: [Signature]
TRANSMITTED WITH LETTERS

BY	DATE	CHARACTER

WORK AS CONSTRUCTED



LEGEND
 DRILLED HOLES □
 AUGER HOLES ○

**TUSCARAWAS RIVER
 LOCAL PROTECTION PROJECT
 MASSILLON, OHIO
 SECTION 2 - UNIT 1**

PLAN OF FOUNDATION EXPLORATION

10 SHEETS SHEET NO. 400 200 0 400 600 SCALE: 1" = 400'-0"

HUNTINGTON DISTRICT, CORPS OF ENGINEERS, WAR DEPT.

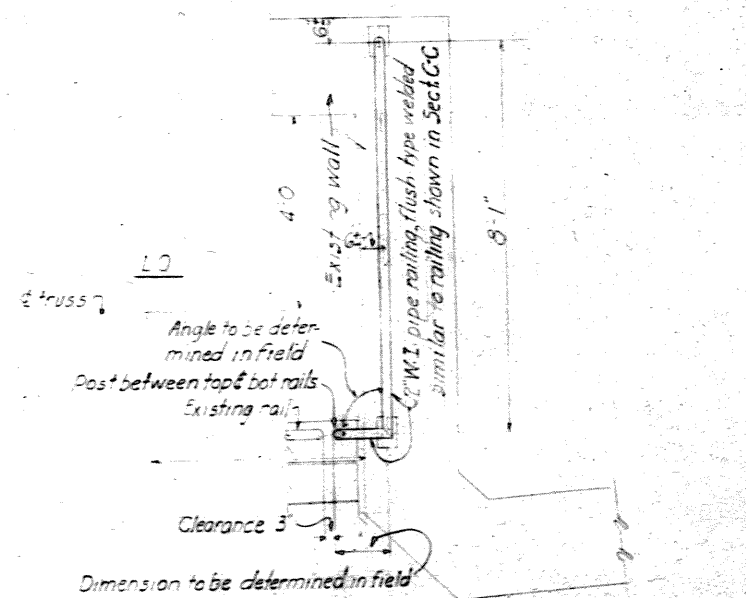
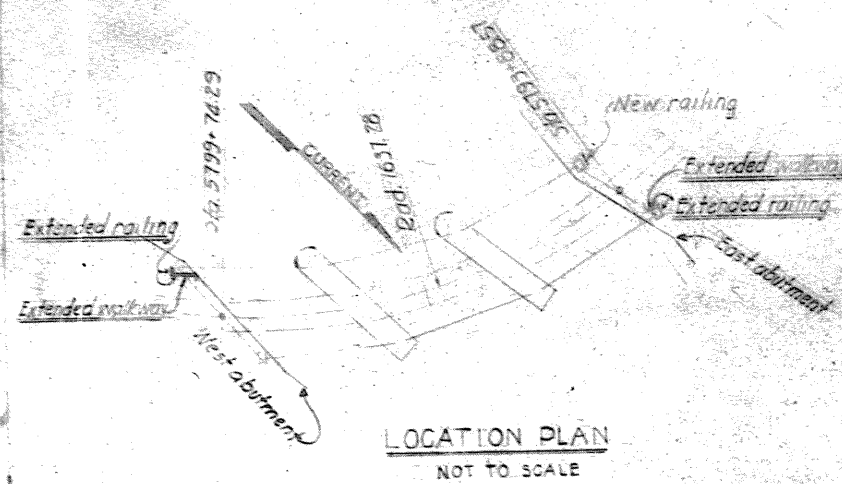
APRIL 1947
 SUBMITTED FOR APPROVAL APPROVED
 RECOMMENDED FOR APPROVAL
 TECHNICAL ASSISTANT
 COLONEL, CORPS OF ENGINEERS
 TRANSMITTED WITH LETTER
 FILE NO 0271-PM2-10/2 DATED

BY	DATE	CHARACTER
		REVISIONS

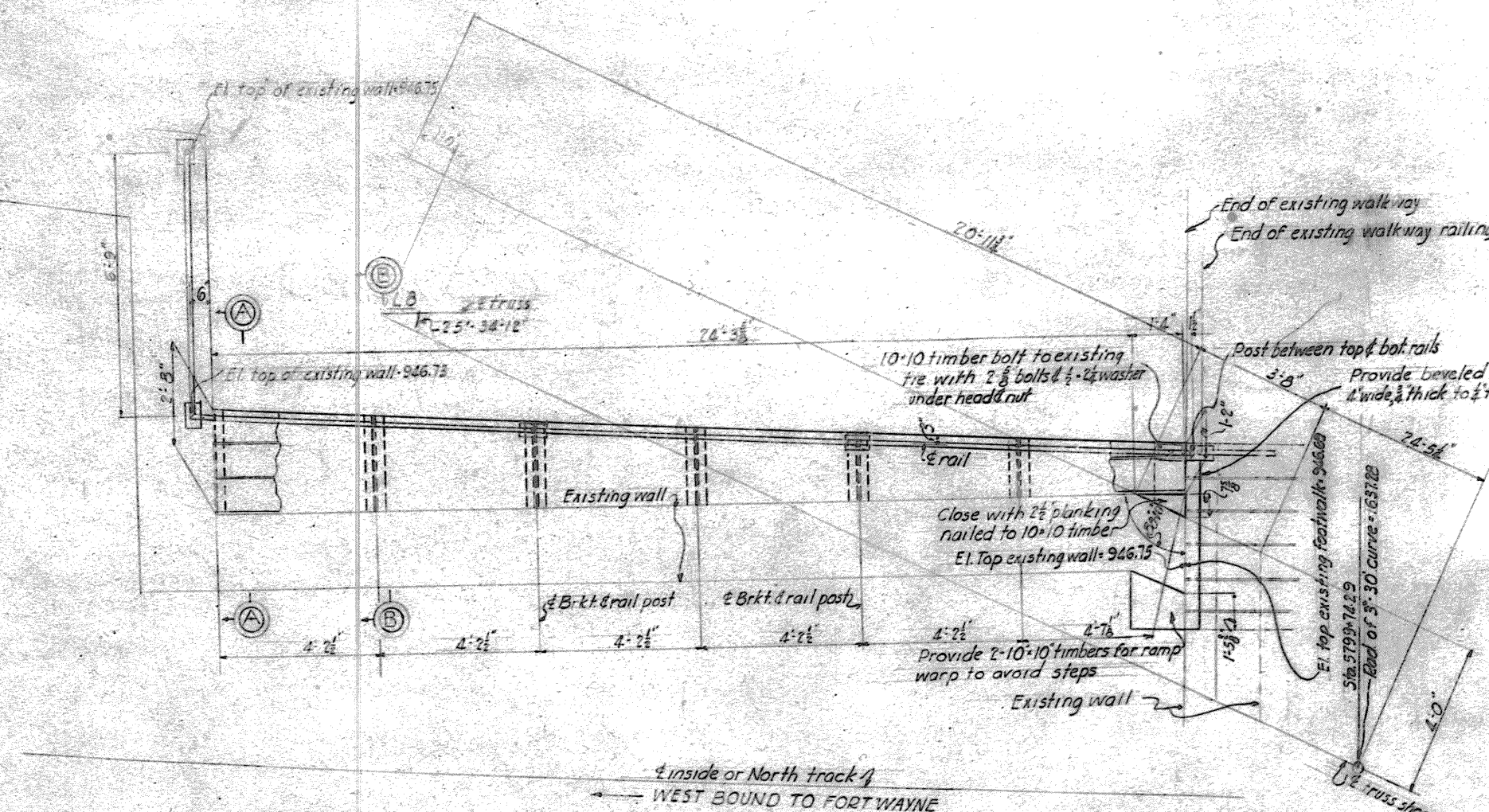
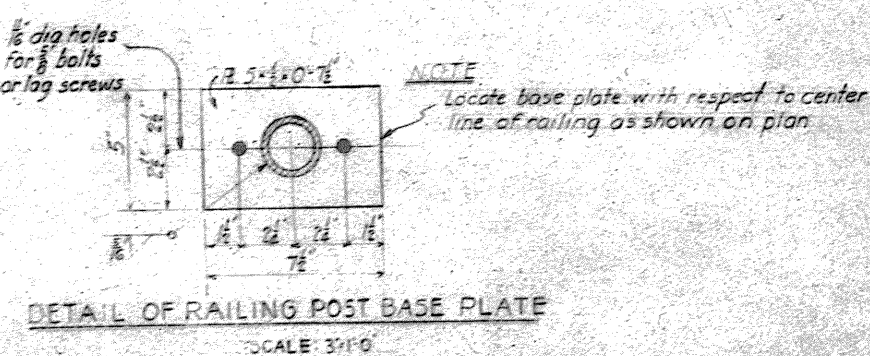
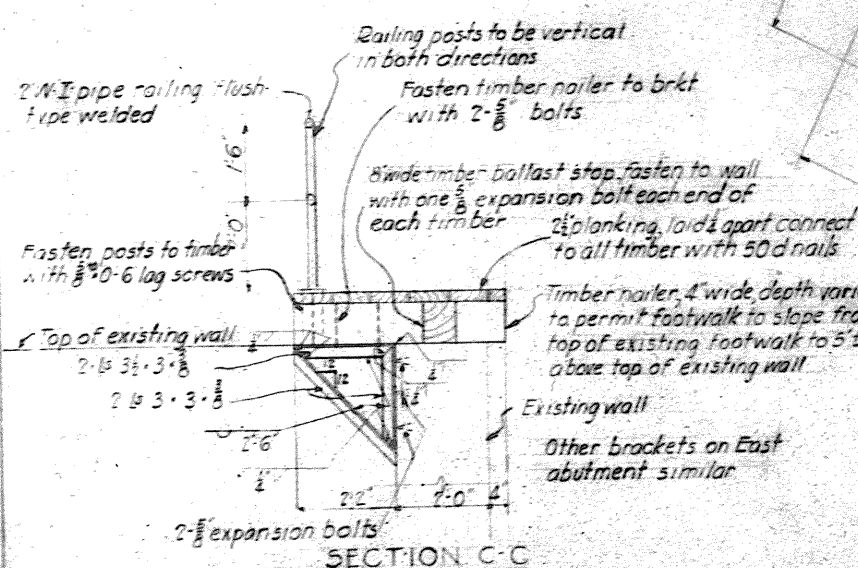
WORK AS CONSTRUCTED

SUBMITTED FOR PURPOSE OF INFORMATION ONLY

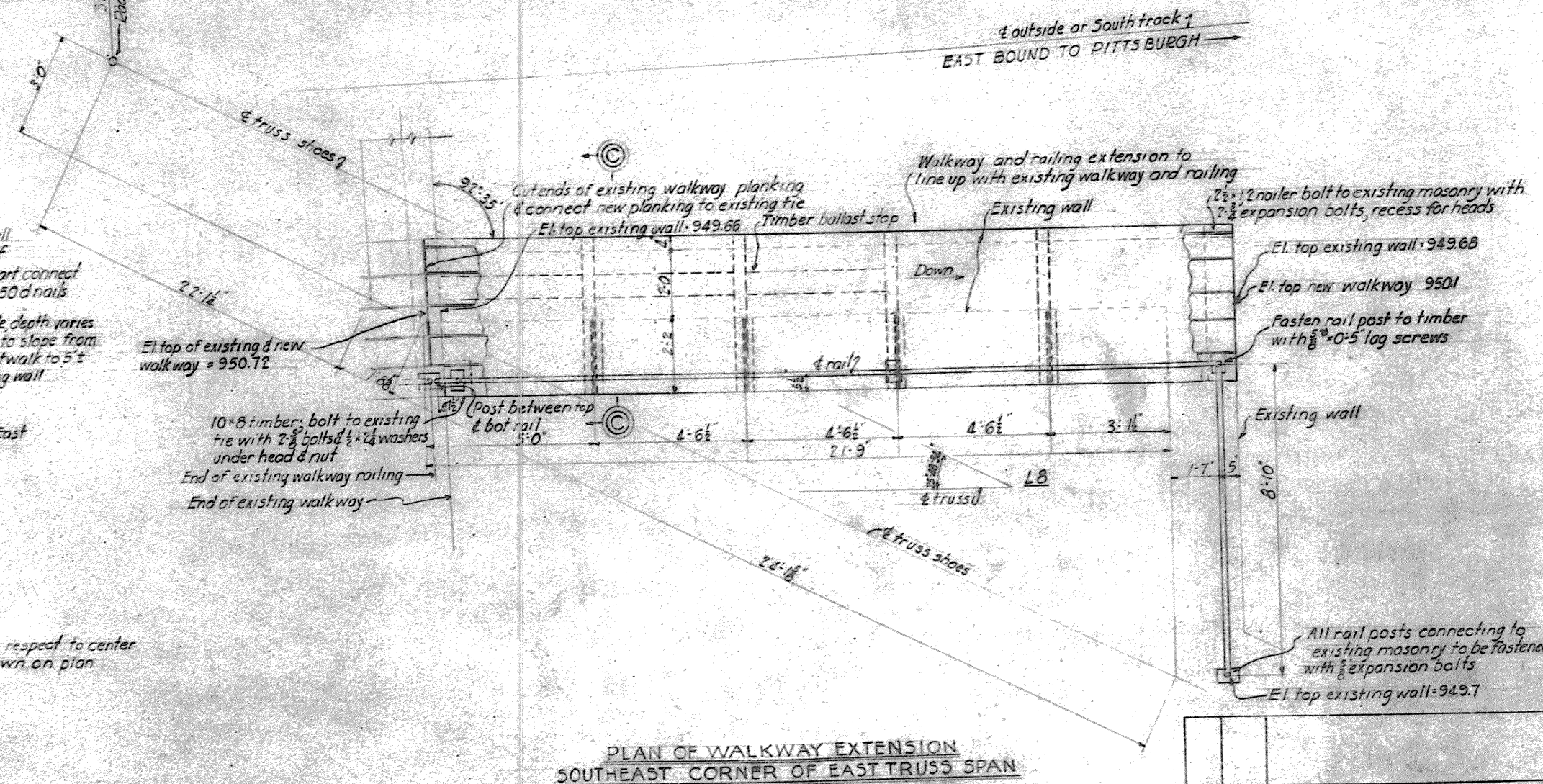
DEPARTMENT OF THE ARMY



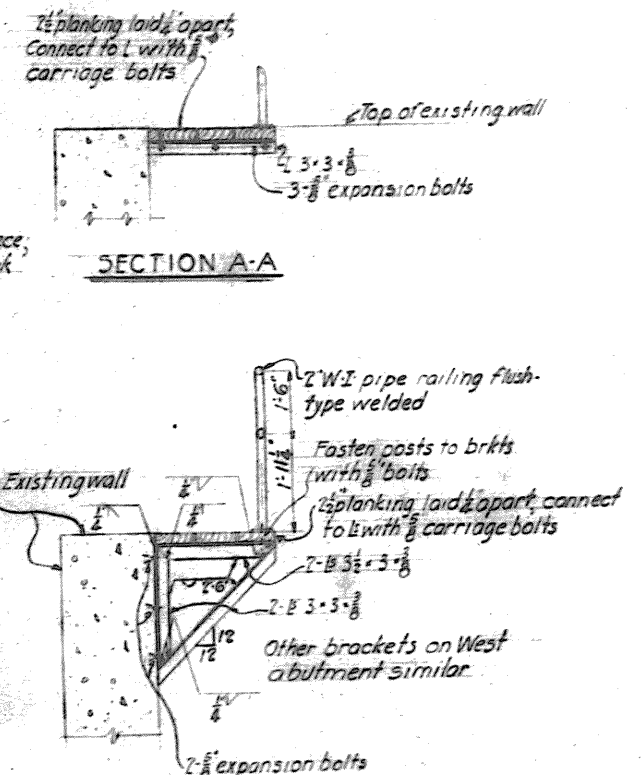
PLAN OF RAILING
NORTHEAST CORNER OF EAST TRUSS SPAN



PLAN OF WALKWAY EXTENSION
NORTHWEST CORNER OF WEST TRUSS SPAN



PLAN OF WALKWAY EXTENSION
SOUTHEAST CORNER OF EAST TRUSS SPAN



SECTION B-B

NOTES

- Structural timber shall be creosoted select white or red oak or creosoted dense structural longleaf yellow pine or fir.
- Holes in timber for rail post lag screws shall be bored 1/8 dia lag screws shall not be driven but must be screwed into position.
- Holes for 3/8 bolts through existing ties and new timber shall be bored next size for driving fit.

DEPARTMENT OF THE ARMY CORPS OF ENGINEERS OFFICE OF THE DISTRICT ENGINEER HUNTINGTON, W. VA.		TUSCARAWAS RIVER LOCAL PROTECTION PROJECT MASSILLON, OHIO SECTION 2-UNIT 1 PENNA. R.R. BRIDGE OVER CHANNEL WALKWAY EXTENSION	
DRAWN BY: A.W.S.	TRACED BY:	APPROVED BY: A.W.S.	DATE: MAY 1940
CHECKED BY: H.W.D.	SUBMITTED BY: H.W.D.	APPROVED BY: A.W.S.	DATE: MAY 1940
TECH. ASST.:		SCALE: 1/2\"/>	

WORK AS CONSTRUCTED