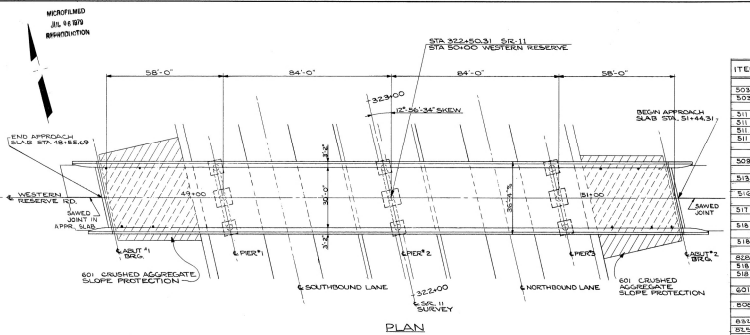


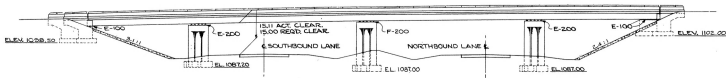
ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SPR	ABUTS	PIERS	GEN.
503	388	CY	UNCLASSIFIED EXCAVATION		588		
503	153	CY	ROCK EXCAVATION		153		
511	321	CY	CLASS 'C' CONC. SUPERSTRUCT. 221				
511	150	CY	CLASS 'E' CONC. ABUT. BKG. FOOTING		150		
511	74	CY	CLASS 'C' CONC. PIDS ABOVE FOOTINGS			74	
511	78	CY	CLASS 'E' CONC. ABUT. & PIER FOOTINGS		51	48	
509	1180	LBS.	REINFORCING STEEL	8600	13610	22845	
513	2480	LBS.	STRUCTURAL STEEL	3450	504		
516	40	SQ FT	1/4 DIF. FORMAL EXPANSION JOINT FILLED AASHTO M-158			40	
517	52.68	LN. FT.	BRIDGE RAILING, TYPE I	5700	50.67		
518	46	LN. FT.	NON PERFORATED HELICAL C.P.M. 101.00		46		
518	61	LN. FT.	PERFORATED HELICAL C.P.M. 101.00 INC. SPECIALS		61		
525	62	LN. FT.	JOINT SEALERS		62		
518	50	CY	OLYME POLYOLUS BACKFILL		50		
518	10	EACH	SCISSORS, INC. SUPPORTS		10		
601	488	50 YD	CRUSHED AGGREGATE SLOPE PROTECTION				488
608	321	UNITS	WATER HEADCUPS, 3/4" DIA.		321		
614	2688	LBS.	PAINTING STRUCTURAL STEEL		2688		
615	1841	50 YD	CONCRETE SURFACE TREATM.		1841		

* Field Reading Only



PLAN


 #OUT. PILESTAKES NOT SHOWN.
 ELEVATION

GENERAL NOTES

DESIGN SPECIFICATIONS: THIS STRUCTURE CONFORMS TO THE REQUIREMENTS OF "DESIGN SPECIFICATIONS FOR HIGHWAY STRUCTURES", OF THE STATE OF OHIO, DEPARTMENT OF HIGHWAYS, DATED 11-25, TOGETHER WITH CURRENT REVISIONS THEREOF.

DESIGN DATA:
 DESIGN LOADINGS - CF 408 (1970)
 CONCRETE CLASS C - BASIC UNIT STRESS 1,333 P.S.I.
 CONCRETE CLASS E - BASIC UNIT STRESS 1,133 P.S.I.
 STRUCTURAL STEEL - ASTM A36 - BASIC UNIT STRESS 30,000 P.S.I.
 REINFORCING STEEL - ASTM A63, A63, A305, DEFORMED, INTERMEDIATE OR HARD GRADE. BASIC UNIT STRESS 30,000 P.S.I. EXCEPT: SPIRAL REINFORCEMENT MAY BE PLAIN, STRUCTURAL GRADE WITH BASIC UNIT STRESS OF 18,000 P.S.I.

REFERENCE SHALL BE MADE TO STANDARD DRAWINGS:
 AS-1-67 REVISED 1-11-68.
 BR-1-67 REVISED 11-24-68.
 PS-1-62 REVISED 11-24-68.
 TD-1-68 DATED 11-24-68.

REFERENCE SHALL BE MADE TO SUPPLEMENTAL SPECIFICATIONS:
 808 DATED 10-27
 825 DATED 12-19-67
 828 DATED 11-14-67
 832 DATED 5-25-67
 791 DATED 5-19-67
 811 DATED 1-1-67

EXCAVATION QUANTITY INCLUDES THE REMOVAL OF FILL MATERIAL REQUIRED FOR CONSTRUCTION OF THE ABUTMENTS.
 ABUTMENT FOOTINGS ARE DESIGNED FOR A MAXIMUM BEARING PRESSURE OF ONE TON PER SQUARE FOOT AND PIER FOOTINGS ARE DESIGNED FOR A MAXIMUM BEARING PRESSURE OF 3 TONS PER SQUARE FOOT.

THE CRUSHED AGGREGATE SLOPE PROTECTION SHALL EXTEND FROM THE FACE OF THE ABUTMENT DOWN TO THE TOE OF THE SLOPE AND EXTEND IN WEIRS TO 3 FEET BEYOND THE OUTER EDGE OF THE SUPERSTRUCTURE ON ONE SIDE, AND AT THE ACUTE CORNER OF THE OTHER SIDE, THE OUTER EDGE OF THE SLOPE PROTECTION SHALL INTERSECT THE HORIZONTAL FACE OF THE ABUTMENT 3 FEET BEYOND THE OUTER EDGE OF THE SUPERSTRUCTURE AND SHALL EXTEND DOWN THE SLOPE, NORMAL TO THE FACE OF THE ABUTMENT, TO THE TOE OF THE SLOPE.

MACHINE FINISH THE CONCRETE BRIDGE DECK SHALL BE FINISHED BY THE USE OF A FINISHING MACHINE.

FOOTINGS SHALL EXTEND A MINIMUM OF 2' INTO UNDISTURBED ROCK OR TO THE ELEVATION SHOWN, WHICHEVER IS LOWER.
 SEE SHEET 276 FOR TREATMENT OF STRUCTURAL STEEL, "SECONDARY WELDS," "WELDED ATTACHMENTS" AND "STANDARD DRAWING, PSB-1-62, BEARINGS" NOTES.

STATE OF OHIO
 DEPARTMENT OF HIGHWAYS
 BRIDGE
 GLAIS, PYLE & SCHOMER
 YOUNGSTOWN, OHIO
 AKRON, OHIO

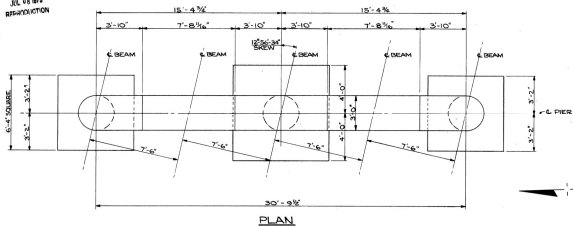
GEN PLAN & ELEV.
 BRIDGE N° MAH-11-0610
 UNDER WESTERN RESERVE RD.
 MAHONING CO. SR. #P11
 STA 322+50.31

DESIGNED BY	SKETCHED BY	TRACED BY	CHECKED BY	REVIEWED BY	DATE
			D.S.	W.P.S.	11-2-84

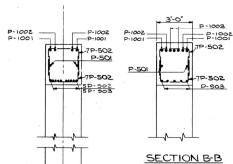
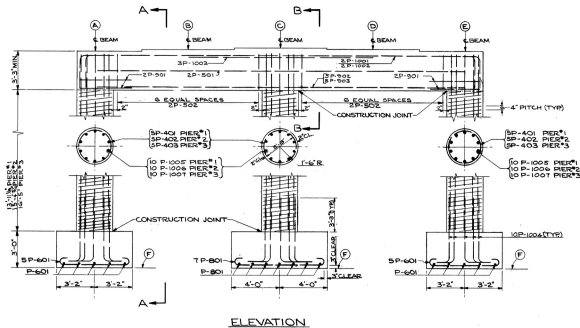
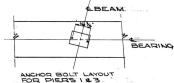
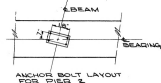
MICROFILMED
JUL 08 1979
REPRODUCTION

REV. NO.	DATE	PROJECT
2	08/0	STATE

292
341



PIER ELEVATION TABLE					F' BASE ELEVATIONS	
LOCATION	A	B	C	D	E	LOCATION ELEV.
PIER #1	1107.48	1107.68	1107.78	1107.81	1107.85	PIER #1 1087.20
PIER #2	1108.58	1108.78	1108.88	1108.90	1108.93	PIER #2 1087.00
PIER #3	1109.01	1109.68	1109.96	1109.88	1109.78	PIER #3 1087.00



BRIDGE BEAT REINFORCING: SPECIAL CASE SHALL BE TAKEN IN PLACING REINFORCING STEEL IN THE VICINITY OF THE BRIDGE BEAT AS TO AVOID INTERFERENCE WITH THE DRILLING OF ANCHOR BOLT HOLES.

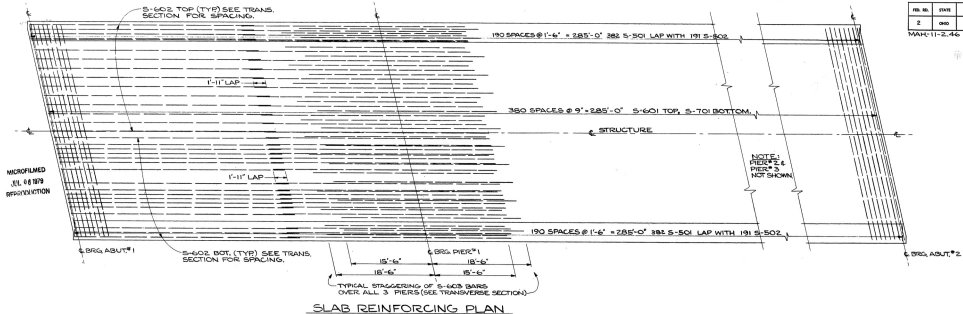
SECTION A-A

ELEVATION

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES
GLAUS, FYLE & SCHOMER
AKRON, OHIO
FOUNDTOWN, OHIO

PIER DETAILS
BRIDGE N° MAH-II-0610
UNDER WESTERN RESERVE RD.
MAHONING CO. S.R. N°11

REV. 2/24/50 31
DESIGNED BY: [Signature] CHECKED BY: [Signature] DRAWN BY: [Signature] DATE: 1-1-54



SLAB REINFORCING PLAN

DEFLECTIONS & CAMBER

SPAN NO.	POINT										
	A	B	C	D	E	F	G	H	I	J	K
DEFLECTION DUE TO WT. OF STEEL	.24	.24	.01	.28	2.4	.06	.28	7.4	.06	.01	.24
DEFLECTION DUE TO REMAINING LOAD	.21	.25	.01	.34	.55	.88	.20	.55	.54	.01	.23
ADJUSTMENT REQUIRED FOR VERTICAL CURVE	.38	.41	.36	.20	.101	.20	.80	.106	.80	.38	.51
REGD. SHOP CAMBER	.61	.74	.AA	.111	.06	.111	.111	.111	.111	.46	.38

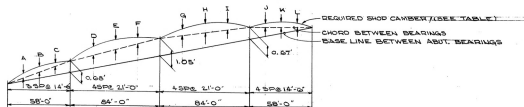
ALL REINFORCING STEEL SHALL HAVE A 3" COVER IN BOTTOM OF FOOTING. ALL OTHER REINFORCING STEEL SHALL HAVE A 2" MINIMUM COVER EXCEPT AS OTHERWISE NOTED.

THE CONCRETE IN THE ABUTMENT BAY SHALL NOT BE PLACED UNTIL STEEL WORK IS ERECTED, BUT SHALL BE PLACED BEFORE THE DECK SLAB IS PLACED.

ROBUST BACKFILL (6" THICK FULL LENGTH OF ABUTMENT SHALL EXTEND UP TO THE UNDERSIDE OF THE APPROACH SLAB.

PROCEDURE: THE EMBANKMENT SHALL BE PLACED AND COMPACTED UP TO THE FINISHED SPILL-THRU SLOPE AND TO THE LEVEL OF THE SUBGRADE AFTER WHICH EXCAVATION SHALL BE MADE FOR THE ABUTMENT.

BEFORE CAST REINFORCING SPECIAL CARE SHALL BE TAKEN IN PLACING REINFORCING STEEL IN THE VICINITY OF THE BRIDGE SEAT SO AS TO AVOID INTERFERENCE WITH THE DRILLING OF ANCHOR BARS HOLES.



LAYOUT DIAGRAM

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES
GLAUS, PYLE & SCHOMER
ARCHIT. ENGRS.
YOUNGSTOWN, OHIO

SLAB DETAILS
BRIDGE NO. MAH-11-0610
UNDER WESTERN RESERVE RD.
MAHONING CO. S.R. #11
STA. 322+90.31

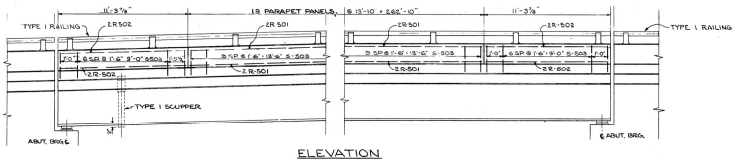
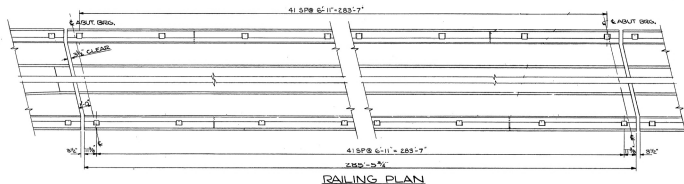
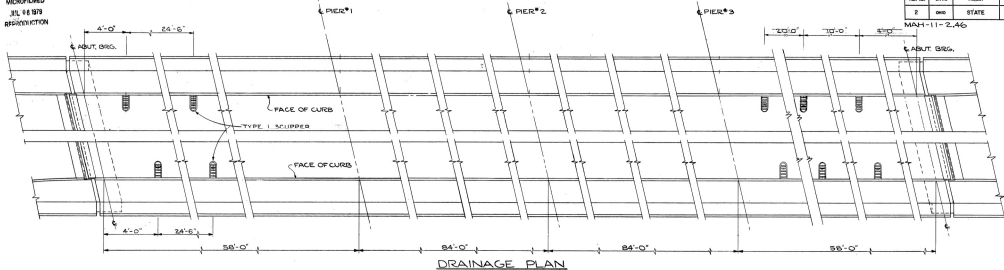
DESIGNED BY	DRAWN BY	CHECKED BY	DATE
RGN	DJ	WLB	7-1-74

MICROFILMED
JUL 18 1979
RESOLUTION

ROL. NO.	DATE	PROJECT	
2	080	STATE	

295
341

MAH-11-2.46



STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES					
GLASS, PYLE & SCHOMER YOUNGSTOWN, OHIO					
DRAINAGE & RAIL'G DETAILS					
BRIDGE N°			MAH-11-0610		
UNDER WESTERN RESERVE RD.					
MAHONING CO. S.R. N°11					
STA. 332+50.31					
DESIGN	DATE	SCALE	DESIGN	REVISED	DATE
RS	8/28	1/8" = 1'-0"	DS	10/10	11-1-64

SPIRAL REINFORCING LIST					
MARK NUMBER	NO. OF TURNS	PIER	PITCH	LENGTH	WEIGHT
SP-401	3	2'-6"	8'-11"	4'	45 744
SP-402	3	2'-6"	15'-5"	4'	49 818
SP-403	3	2'-8"	16'-5"	4'	52 858
TOTALS					146
SPIRAL TOTAL					278

MARK NUMBER	LENGTH	LBS/WK
ABUTMENTS #1 & 2		
A-501	2.4	35'-0" 178 ST
A-502	5.0	4'-3" 241 ST
A-503	8	8'-2" 368 ST
A-504	8	8'-2" 371 ST
A-505	8	10'-1" 488 ST
A-506	2.4	8'-0" 175 ST
A-507	8	3'-4" 125 ST
A-508	8	4'-0" 225 ST
A-509	8	4'-0" 330 ST
A-510	8	8'-0" 435 ST
A-511	0.4	6'-3" 317 ST
A-512	0.2	12'-6" 413 ST
A-513	3.6	5'-7" 279 ST
A-514	2.0	6'-10" 347 ST
A-515	3.2	4'-11" 184 ST
A-516	2.4	2'-7" 84 ST
PIERS #1, 2 & 3		
P-1001	5.0	15'-11" 486 ST
P-1002	8.0	32'-3" 379 ST
P-1003	1.8	50'-5" 1568 ST
SPIRAL REINFORCING		
S-501	6	8'-3" 362 ST
S-1005	6	58'-8" 387 ST
S-1006	9	18'-4" 574 ST
S-1004	9	6'-9" 264 ST
S-1008	9	16'-10" 218 ST
S-1009	3.0	18'-3" 234 ST
S-1001	3.0	18'-4" 245 ST
PIER TOTAL		22,845

MARK NUMBER	LENGTH	LBS/WK
ABUTMENTS #1 & 2		
AB01	2.4	35'-0" 218 ST
AB02	5.0	21'-0" 448 ST
PIERS #1, 2 & 3		
P-1001	1.2	8'-11" 241 ST
P-1002	2	8'-0" 225 ST
P-1004	6	8'-3" 371 ST
P-1004	6	8'-11" 181 ST
P-1003	4.0	8'-8" 362 ST
P-1006	1.5	5'-0" 324 ST
P-1001	2	5'-0" 324 ST
ABUTMENT TOTAL		3,600
REPLACEMENT BARS		
RE-501	4	6'-0" 216 ST
RE-502	6	7'-0" 252 ST
RE-101	2	7'-3" 257 ST
RE-601	1	7'-6" 267 ST
RE-701	1	7'-10" 278 ST
RE-1001	1	8'-2" 284 ST
RE-401	1	6'-3" 198 ST
TOTAL		

MARK NUMBER	LENGTH	LBS/WK
SUPERSTRUCTURE		
S-504	16.4	2'-4" 1837 ST
S-502	382	3'-6" 1394 ST
S-503	414	5'-7" 2421 ST
SPIRAL REINFORCING		
S-501	6	30'-9" 192 ST
S-502	8.4	7'-2" 325 ST
P-601	60	7'-2" 696 ST
P-601	42	9'-8" 1084 ST
P-601	12	17'-11" 486 ST
P-602	30	32'-3" 379 ST
P-603	18	50'-5" 1568 ST
P-1001	6	8'-3" 362 ST
P-1005	6	58'-8" 387 ST
P-1006	9	18'-4" 574 ST
P-1004	9	6'-9" 264 ST
P-1008	9	16'-10" 218 ST
P-1009	3.0	18'-3" 234 ST
P-1001	3.0	18'-4" 245 ST
PIER TOTAL		22,845

MARK NUMBER	LENGTH	LBS/WK
SUPERSTRUCTURE		
S-401	381	35'-6" 2413 ST
S-402	504	37'-8" 3817 ST
S-603	72	34'-0" 3671 ST
S-701	381	35'-8" 2179 ST
SUPERSTRUCTURE TOTAL		85,848
REINFORCING - THESE REINFORCING BARS WILL BE INCLUDED AS PART OF ITEM 511 FOR PAYMENT.		
MARK NUMBER LENGTH LBS/WK		
R-501	15.2	13'-6" ST
R-502	1.6	11'-0" ST
R-503	1.2	4'-2" ST
R-504	8	5'-4" ST
R-505	5	12'-6" ST
TOTAL ABUTMENT		13,670
TOTAL SUPERSTRUCTURE		85,848
TOTAL PIERS		22,845
GRAND TOTAL		122,963

