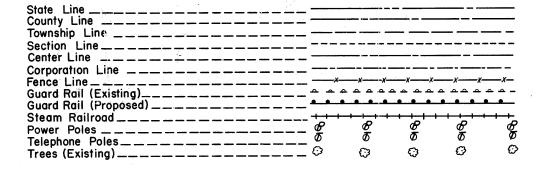
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CONVENTIONAL SIGNS



INDEX OF SHEETS

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Force Account Work (Ollilly)	317-311 1	وداحاتا	J00-J31	TITLE

LINE DATA

Begin Project	Sta. 3+29.77	,
End Project	Sta. 262+00	
Gross Length of Project	25870.23	Lin. Ft.
Add for Equation	113.91	Lin. Ft.
Net Length of Project	25984.14	Lin. Ft. or 4921 Miles
Begin Work	Sta. 2-82	Lin. Ft.
End Work	Sta. 262+35	Lin. Ft.
Gross Length of Work	25,953.00	Lin. Ft.
Add for Equation	113.91	Lin. Ft.
Net Length of Work	26,066.91	Lin. Ft. or 4.937 Miles
Add for Approaches (See Sheet No	. 12) 18,562.42	Lin. Ft.
Total Length of Work	44,629.33	Lin. Ft. or 8.453 Mile
Approved H. G. Elekanet		

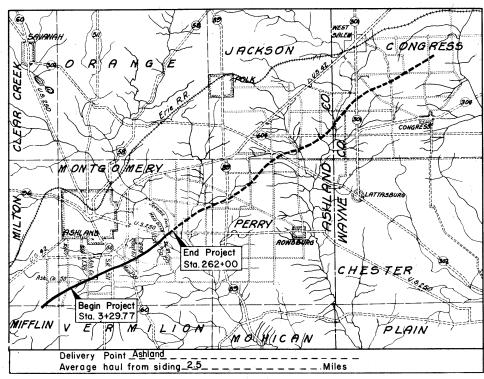
Approved The Engineer of Traffic

ASHLAND COUNTY Date of Letting______19 Contract No______

STATE OF OHIO DEPARTMENT OF HIGHWAYS 0 H I O

ASD-I-3.52

MONTGOMERY TOWNSHIP ASHLAND COUNTY



LOCATION MAP

======

SCALE OF MILES

Portion to be improved Portion Under Separate Contract State Roads Other Roads

SCALE

Plan			_	_	_		"=	
Profile: Horizontal	 	 _		_		_	1"=1	00'
Profile: Vertical	 	 				_	1"= 1	0'

Supp	lemental Prints	of Sto	indard Constru			
BT50707IE NO.1 10-1-47	I-8 I NO.2	12-1-54	L-3-A	4-1-50	\S-∕I-54	12-1-54
B-T-71 R 3-2-53	I-8 M.H. NO. (5-1 52	LJ NO.I			eet 2 2-3-56
DR-I I-3-55	I-12		RI-I			et 3 12-3-56
F-I 4-I-57	I-14 G					<u> 3- (-55</u>
G-7.07 6-I-56	I-15 NO. 1	8-1-55	HWC	7-15-57 A		9 57
I-1,2,3,485 2-20-45	I-15 NO. 2A	6-1-57	S-27 P.C.2	3-15-48 S	P-53	7-21-53
I-8 C.B. 2-2-A&B 8-I-56	I-15 NO. 2B	6-1-57	S-27 P.C.4	1-4 54 I	-8 C.B. NO	17 5-1-52
I-8 C.B. NO. 4 6-1-57	I-21-23	8-1-56	S-27 P.C. 3		-15 NO. 5	12-9-57
I-8 C.B. NO. 5 6-1-57		4-1-50	T-35	1-2-56 I	-15 NO. 6	12-9-57
I-8C.B NO.6 5-1-52	L-3	4-1-30	TJ	5-1-56 I	-8 M.H. NO) I-A I-3-55

ACI-1105(31)

LIMITED ACCESS

This improvement is especially designed for through traffic and has been declared a limited access highway or freeway by action of the Director of Highways in accordance with the provisions of Section 5511.02 of the Revised Code of Ohio.

2 OHIO I-II05 (3I)

ASHLAND COUNTY ASD -1-3.52

Federal Project No. I-1105(31) appearing throughout these plans shall be considered to read ACI-1105(31)

394

The standard specifications of the State of Ohio, Department of Highways, including changes and supplemental specifications listed in the proposal shall govern this improvement.

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

I hereby, approve these plans and declare that the making of this improvement will not require the closing of the highway to traffic and that provisions for the maintenance and safety of traffic will be as set forth on the plans and estimates.

Approved P. Ingineer, Interstate Projects

Approved <u>Po. W. Makurer Cy</u> Date 4.10.58 Deputy Director, Planning & Programming

Approved <u>P.E. Mastetw</u>
Date 4/1/58 Deputy Director, Design & Construction

Approved_____First Assistant Director

Approved King & Diorngu
Date 4/10/18 Acting Director of Highways



Stoder 347, 3420 STRAIN SES Live on Magazina

Short 314 and 34 & superse to I by should

BARA LIVITA MI MALE WAR PYST,

Sheets Shi in 30 postical O. t. Wisto.

Smets 237, 228 and 325 revised July 11, 1958.



Supplemental	Specifications
E-101	1-1-57
B-119	REV. 8-11-57
5	6-8-55
18	RĒ√. 2-6-57
S-114 I-127	REV. 8-1-57
1-127	RL V. 11-16-57
M-206.6 (b)	5-25-56
I - I25	REV. II-6-57
M-206.14	7-15-49

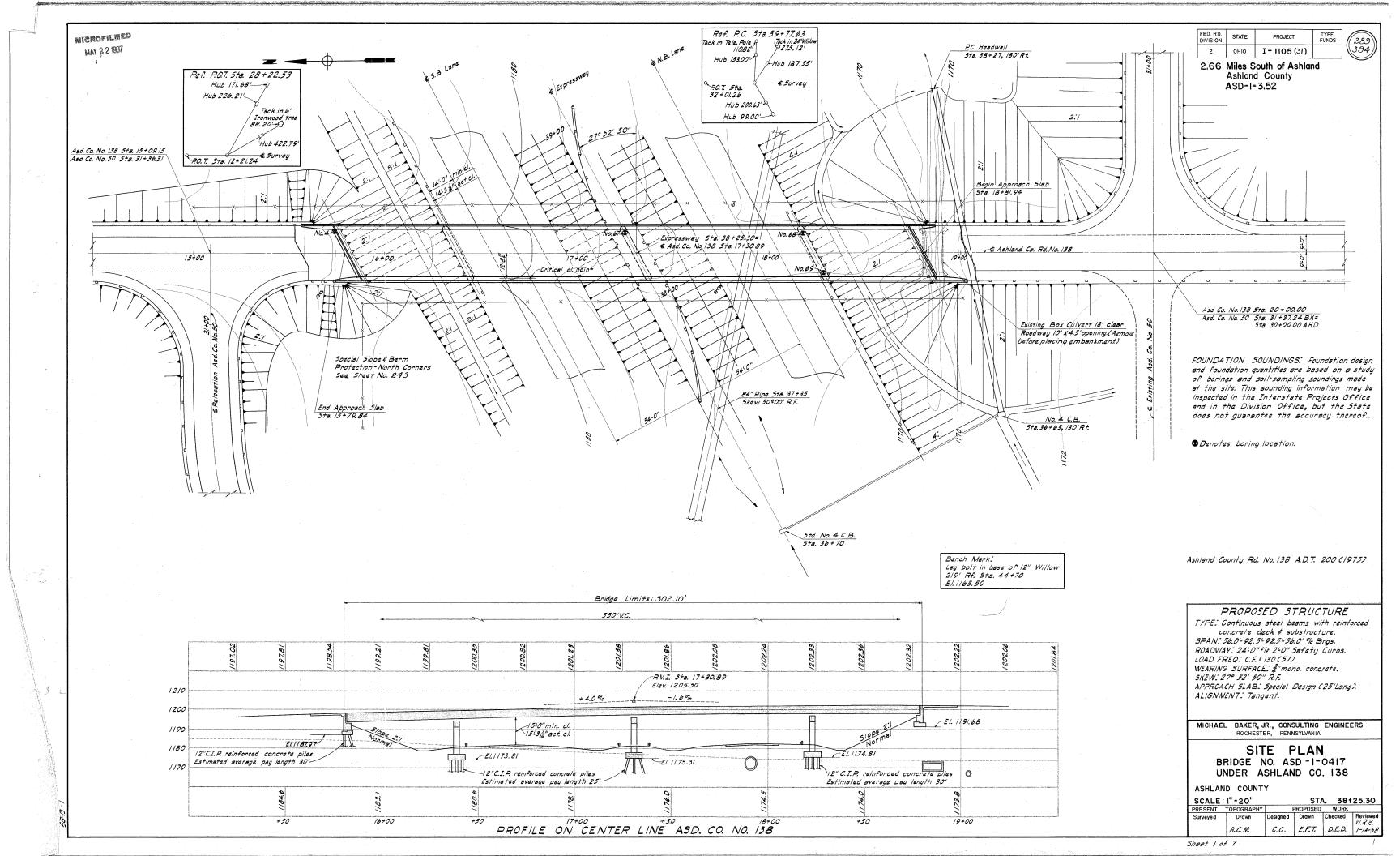
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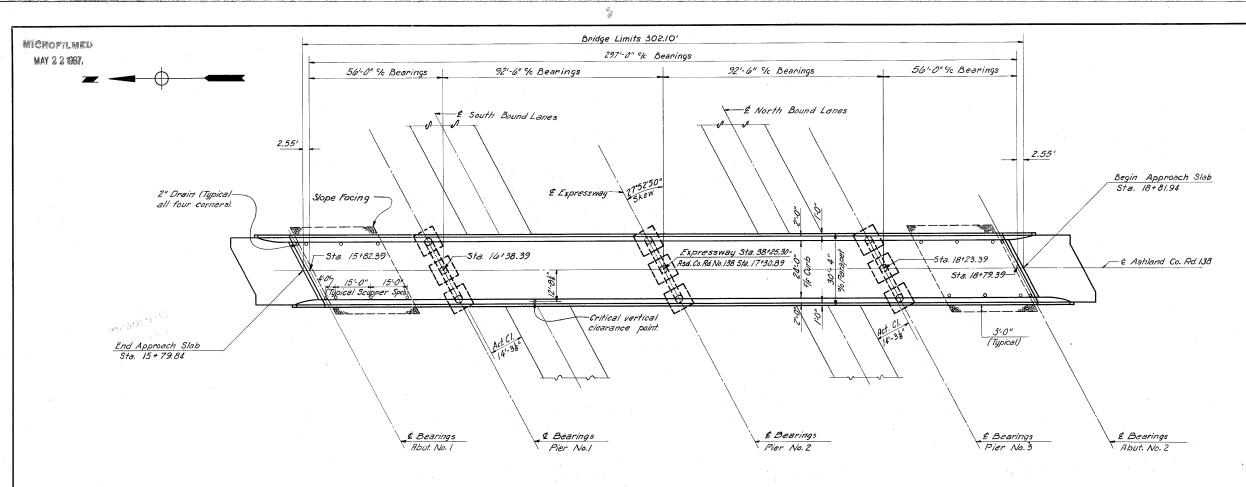
DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS

APPROVED

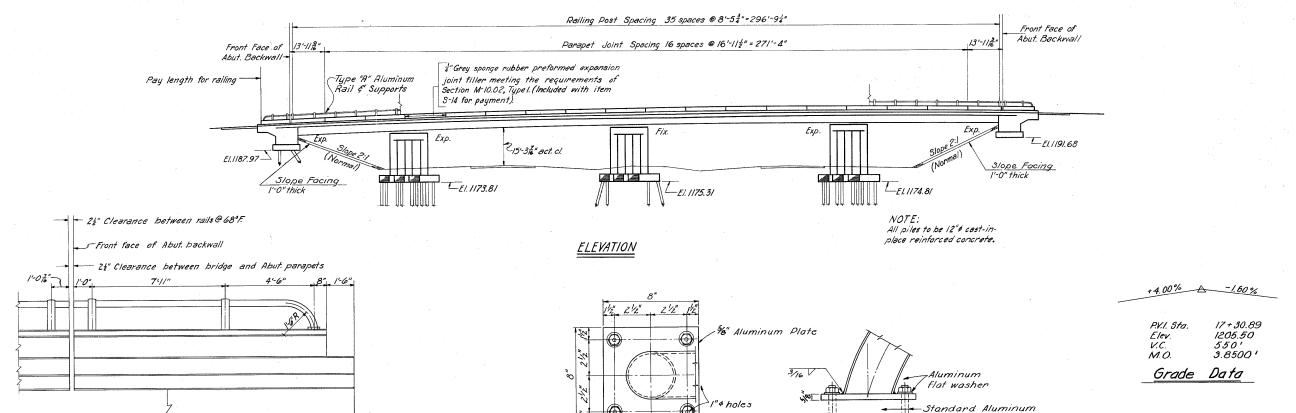
DIVISION ENGINEER

DATE





GENERAL PLAN



Railing Anchor Bolt

DETAIL OF RAILING ANCHOR PLATE AT END OF PARAPET

> ASHLAND COUNTY ASD-I-3.52

GENERAL NOTES

- Reference shall be made to Standard Drawings CSB-2-56, sheet 2 \$3 of 6 dated 12-3-56, RB-1-55 dated 3-1-55, AR-1-57 dated 4-9-57 and to Supplemental Specification SII4 Revised 8-1-57
- Design Specifications: This structure conforms to the requirement of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57.
- . Loading: C.F. = 130 (57)
- Excavation quantity includes the removal of fill material between surface of proposed embankment and bottom of abutment, for Pier 3 the top surface of the excavation is 6° above the bottom of the footing.
- Welding of structural steel shall be Class "A", unless otherwise shown (— B).
- Slope Facing shall be provided under the structure at both abutments. The slope facing shall be 12" thick and shall extend from the face of the abutment down to toe of slope and tranversely to 3ft. outside the edge of the superstructure.
- Welded Steel: The steel for the 36 WF 230 beams shall conform to A.S.T.M. Designation A-373. All other structural steel shall conform to either A.S.T.M. A-7 (as per Sec. M-7.4 (a) of the "Construction and Material Specifications") or to A-373
- Embankments to be placed to subgrade elevation for a distance of approximately 200 feet beyond the bridge limits as early as practical in the construction procedure and before work is begun on Abutments or Piers No.1 and No.3. Abutments should be placed as late as practical, with a minimum time lapse of 30 days between completion of the embankment and starting work on the Abutments.
- Piles shall be driven to a minimum bearing capacity of 30 tons per pile.

MICHAEL BAKER JR., CONSULTING ENGINEERS ROCHESTER, PENNSYLVANIA

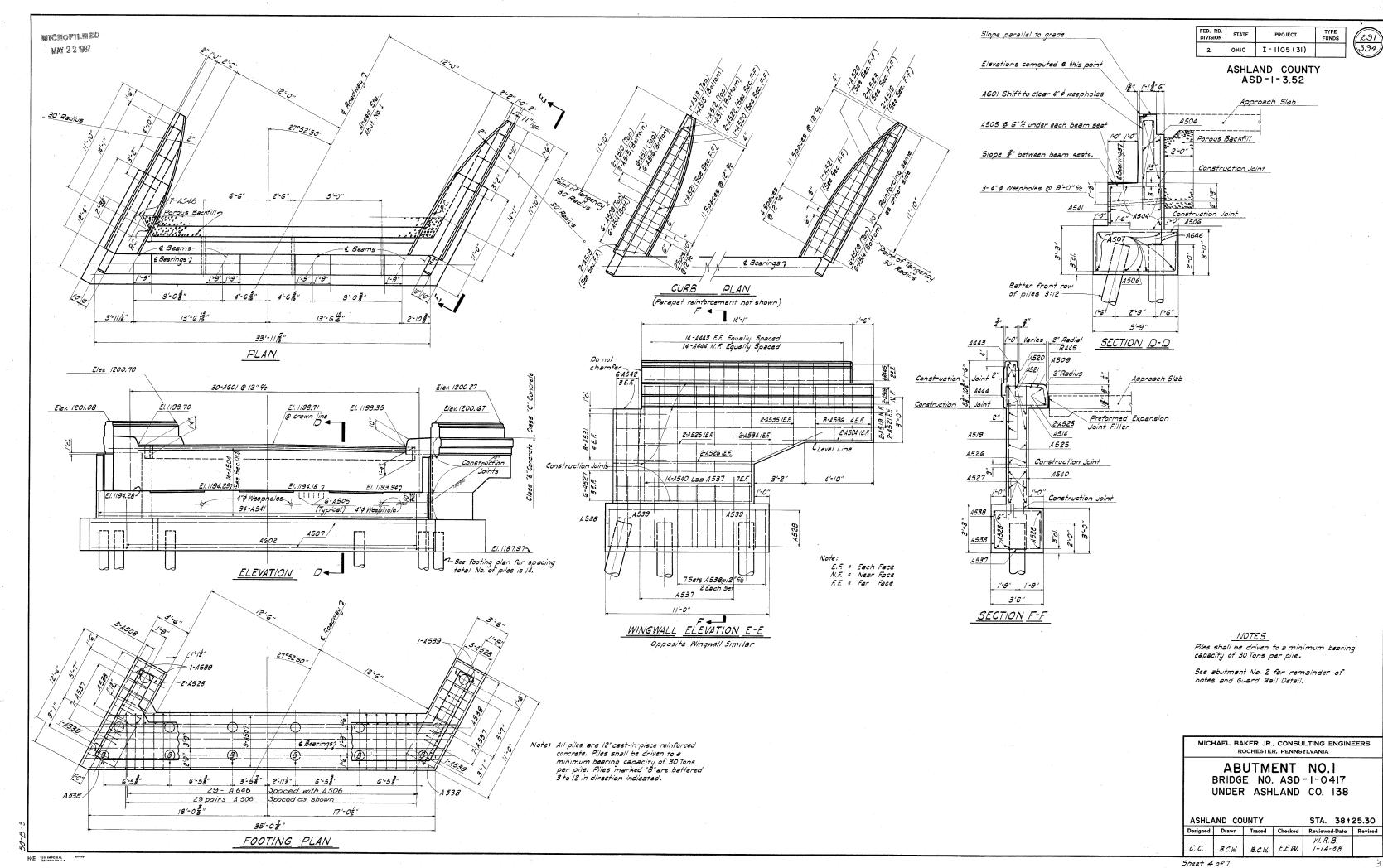
GENERAL PLAN & ELEVATION BRIDGE NO. ASD.-1-0417 UNDER ASHLAND CO.: 138

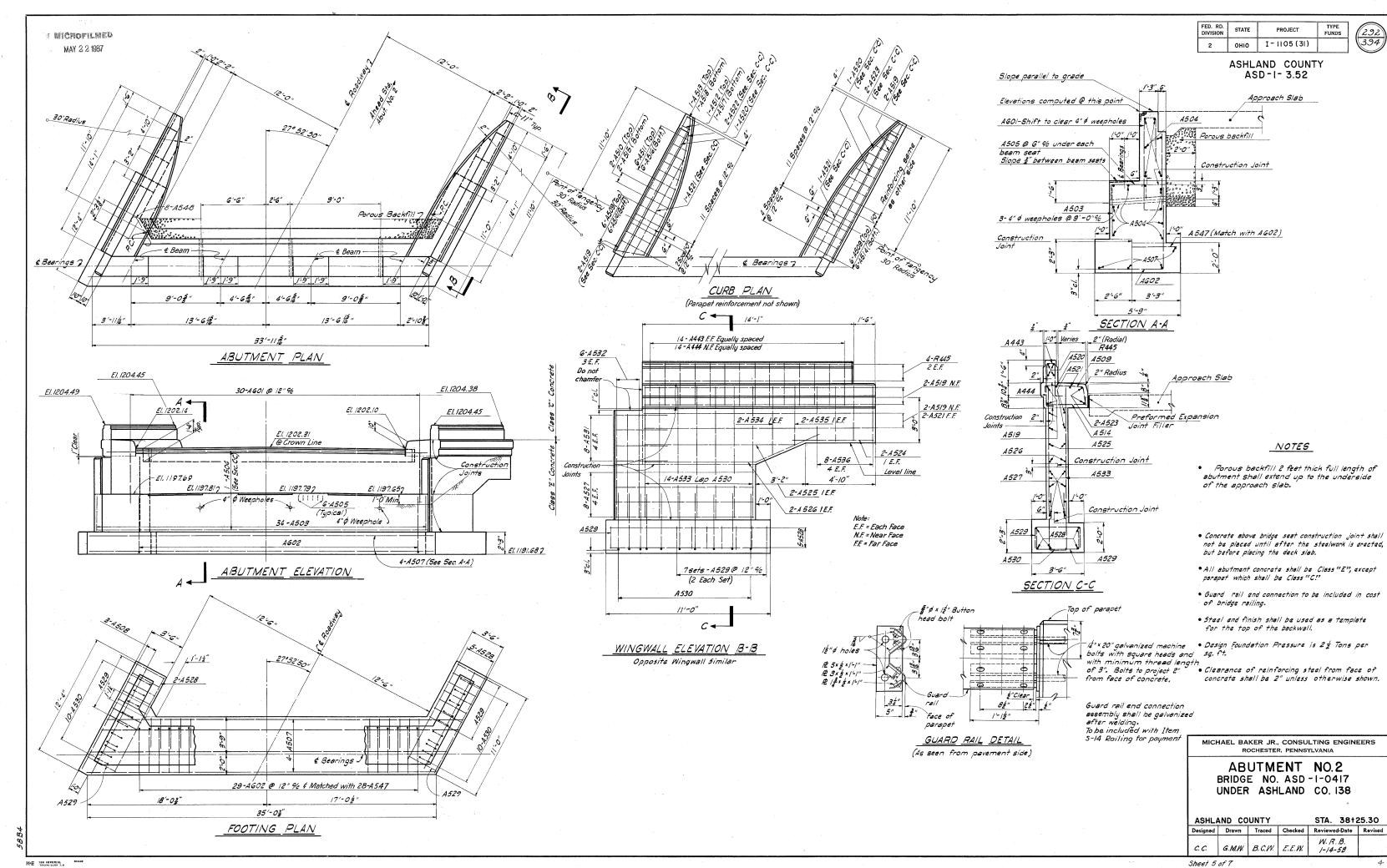
 ASHLAND COUNTY
 STA. 38 + 25.30

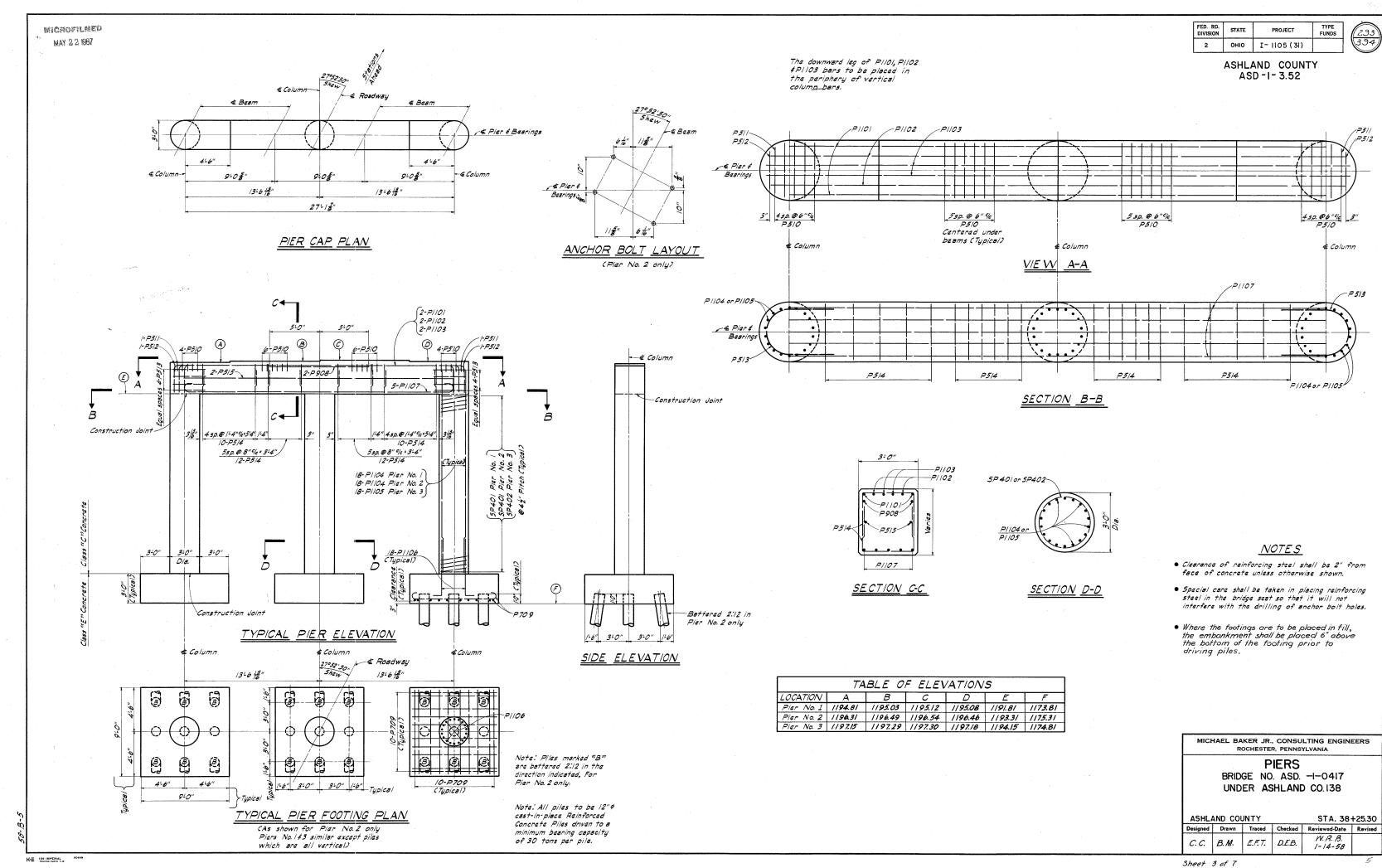
 Designed
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 Checked
 Reviewed-Date
 Revised

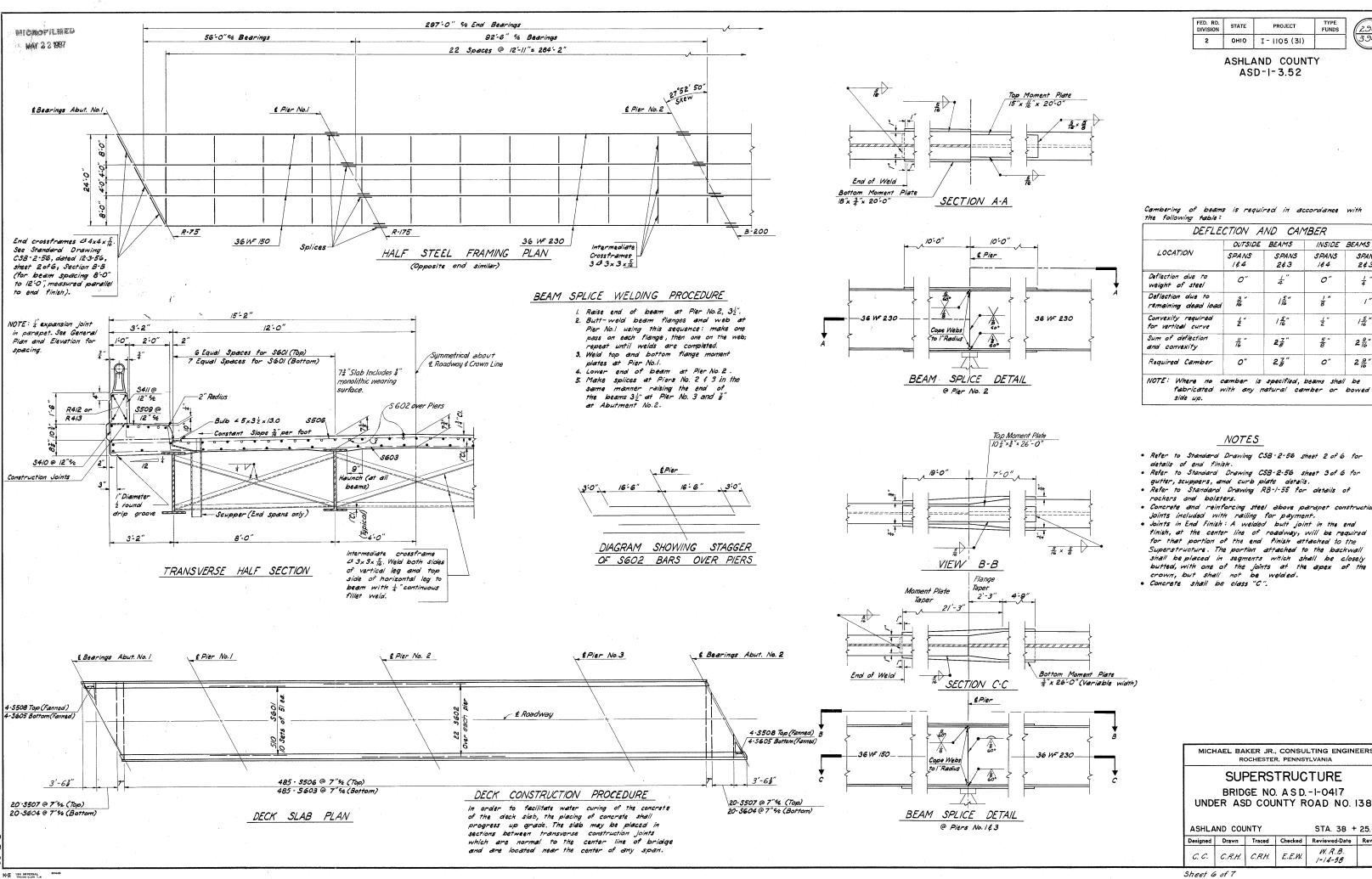
 C. C.
 A. M.
 L. M.
 G.5.W.
 W.R.B. /-/4-58

ABUTMENT RAILING DETAIL









TYPE FUNDS

294 394

ASHLAND COUNTY

Cambering of beams is required in accordance with the following table:

DEFLE	CTION A	AND CAM	1BER			
	OUTSIDE	BEAM5	INSIDE BEAMS			
LOCATION	SPANS & 4	SPANS 2¢3	SPANS 1¢4	SPANS 2¢3		
Deflection due to weight of steel	0"	4"	0"	1 "		
Deflection due to remaining dead load	3 "	15"	/ "	1"		
Convexity required for vertical curve	₫"	15"	₫"	15"		
Sum of deflection and convexity	<u>#</u> "	27"	<u>5</u> "	2 %		
Required Camber	0"	27	0"	2 <u>9</u> "		

NOTE: Where no camber is specified, beams shall be fabricated with any natural camber or bowed

- Refer to Standard Drawing CSB-2-56 sheet 2 of 6 for

- Concrete and reinforcing steel above parapet construction
- finish, at the center line of roadway, will be required for that portion of the end finish attached to the Superstructure. The portion attached to the backwall shall be placed in segments which shall be closely

MICHAEL BAKER JR. CONSULTING ENGINEERS ROCHESTER, PENNSYLVANIA

BRIDGE NO. A S D. -1-0417

STA. 38 + 25.30 Designed Drawn Traced Checked Reviewed-Date Revised W. R.B.

ASHLAND COUNTY ASD-I-3.52

TYPE FUNDS STATE PROJECT 2 оню 1-1105 (31)

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r regional de section de destact de proposition de la company de la comp						4	REINFORCING	STEEL BA	AR SCHEDULE			
				une manier i mais y en Promission de La participa de La participa de Marier Companyo de La participa de Campanyo (1996) (1996)	(1999) ж. ж. 14-м (1966) оны бою это соосуусой сторого ондагых оны дов асцего	Bending	g diagram types - All dimen	nsions are out to	out, except radii which a	re to inside.	$\label{thm:continuous} We have a substitution of the continuous substitution of the continu$	AZR
A delicities B	A B	A B C	A	c A	A	A B	A B A	A	A B W	C A CONTRACTOR OF THE CONTRACT	1'-3'12'	
Туре 🕖	Type (2)	Туре (3)	Туре 4	Type 3	Type 6	Type (7)	Type 8	Type 9	Type (1)	Type (1)	Type (Z) Spiral	
	ABUTME.	NTS					SUP	ERSTRUCTU	RE	and process accommendation and post of the Applica place from the control of the process accommendation in account of	2000 Colomor Colomor Angles (en miller de Sere en mercana, proprimere NOV 10.3 Metropis Colomor 2007 Colomor para quant	TS

TOTAL

510

485

40

485

40

5**98**

598

598

128

16

SIZE LENGTH TYPE A B C D E WEIGHT LBS.

4-11" 11 6" 1-3" 6" 240 3"

6 28'-1" To 7'-2" Str. 2 Sets-each vary by 1'-14"

5 28'1" To 7'-2" Str. 2 Sets each vary by 1'-14"

1 5" 21-10"

4'-2" 4 1'-4" 8" 2'-0" 5"

24,130

3,569

21,854

1,059

15,176

735

3,067

1,298

1,664

Included with

railing for payment.

72,689

Total Weight

56

81

6 31'-6" Str.

6 30'-0" Str.

5 30'-0" Str.

3'-3"

4

36'-0" Str.

6 6'-9" Str.

6'-9" Str.

16-7" Str.

13'-7" Str.

MARK

5601

5602

5603

5604

5605

5506

5507

5508

5509

5410

54//

R412

R413

CALLOSS CONTRACTOR	Martine and the second of the second	CHINATOR CONTINUES ACR	rype Z	CITITO WHEE PROSERTS	NON-CONTRACTOR	Jype	-	interpretation (company)	-14	
TO JULY SEPTEMBER OF THE SERVICE OF	ACCUPATION OF THE PROPERTY OF	THE STATE OF THE S	ABUT	ME.	NT.	5				
MARK	TOTAL	SIZE	LENGTH	TYPE	Α	B	C	D	E	WEIGHT LBS
A 601	60	6	15'-3"	7	6:0	1:5"	4-9	3-0	9"	1,374
A 602	58	6	9'-6"	/	41.54	5.3"				828
A 503	34	5	3'-6"	Str.						124
A504	30	5	33'-6"	Str.			-			1,048
A505	48	5	3'-2"	6	7 5 "	2-2"			1	159
A506	58	5	9'-4"	6	2'-1"			 	T	565
A507	13	5	35'-8"	Str.	<u></u>				 	484
A508	6	5	12'-0"	Str.		†		-	-	75
A509	22	5	4'-3"	//	75"	11-2"	0"	24-94	2"	
A 510	8	5	4'-2"	//	75"	1'-2"	0"	21-8"		35
A511	24	5	2-9"To 4:0"	11	75"	1-2"		D= /-3"To		84
A512	4	5	2'-4"	11	75"	11-211	0"	10"	2"	10
A513	4	5	1'-11"	11	7§"	11-211	0"	5"	2"	8
A514	22	5	3'-3"	//	75"	21-9"	- 0	-		75
A5/5	8	5	3'-2"	-	75"	21.8"				26
A516	24	5	1-9" To 3-0"	-		B=1-3"TO	26.64			
A517				/	18 18"	1	2-0			59
	4	5	/'- 4"	/		10"				6
A518	4	5	//"	/	7 <u>5</u> "	5"			ļ	4
A519	16	5	1543"	Str.						254
A520	4	5	14'-6"	Str.	ļ					60
A521	12	5	15'-8"	5	11-6"	4:3"	1-0"			196
A 522	4	5	14'-8"	10	21911	14:3"	2-4		29'-10"	61
A 523	4	5	16'-6"	10	4.6"	16-1"	244		29:10"	69
A 524	8	5	6'-0"	Str.						50
A 525	8	5	10'-2"	Str.						85
A 526	88	5	12'-3"	5	7-4"	5'-0"	2'50"			102
A 527	28	5	9'-0"	Str.						263
A528	14	5	10'-9"	Str.						157
A 529	28	5	6-3"	6	1-8"	3-2"				183
A 530	20	5	8'-5"	6	31.9"	12"				176
A53/	16	5	3'-6"	Str.						58
A532	12	5	7'-0"	Str						88
A 533	28	5	8'-6"	Str.						248
A 534	8	5	4'-6"	Str.						38
A 535	8	5	4-0"	Str.						33
A536	32	5	3-6"	Str						117
A 537	14	5	10'-5"	6	41.9"	1-2"				152
A 538	28	5	7'3"	6	2:2"	312"				212
A 539	16	5	5'-3"	/	78	419"				
A 540	28	5	7'6"	Str.	18	77				88 219
A541	34	5	2'-6"	Str.						
A 542	12	5	6'-0"	Str.						89 75
H 443	56				1-4"	00	2/ 0"	, 10		
H443	5 <i>6</i>	4	4-2"	4		8"	240"	64"		156
			31.3"	-/	64"	21-10"	.,,	,,		122-
R 445	16	4	13'-9"	Str.		CONTRACTOR AND	th rai	ling fo	or pay	
9646	29	. 6	5-11"	7	5'-3"	10"				258
1547	29	5	3'-0"	Str.						91
7548	15	5	6'~2"	8	7"	5'-0"	5"			96

Total Weight 8,858

▶ 4 sets of 6 bars, each bar in set varies by 3"

REPLACEMENT BARS											
MARK	NO.	SIZE	LENGTH	TYPE	WEIGHT						
RE 1101	2	//	7'-6"	Str							
RE 902	1	9	6'-10"	Str.							
RE 703	1	7	6'-3"	Str.							
RE 604	3	6	5'-//'	Str							
RE 505	2	5	5'-7"	Str.							
RE 406	/	4	5'-3"	Str.							
RE407	1	1/2" \$	5'-3	12							

REPLACEMENT BARS

If reinforcing bars are fabricated from stock which has previously been tested and approved by the Ohio Highway Testing Laboratory, test sample as provided in section 5-4.02 need not be furnished and replacement bars will not be required.

	ESTIMATED QUANTITIES											
TEM	TOTAL	UNIT	DESCRIPTION	SUPERSTR.	ABUTS.	PIERS	GENERAL	and the second second second second				
E-2	291	Cu. Yd.	Unclassified Excavation		163	128		with the remaining and the second an				
			4									
S-/	285	Cu. Yd.	Class "C" Concrete, Superstructure	285								
5-1	68		Class "C" Concrete, Pier Caps and Columns			68	1					
S-/	78		Class"E" Concrete, Abutments above Footings		78		1					
5-/	126	Cu. Yd.	Class"E"Concrete, Footings		47	79						
S-4	117,132	Lbs.	Reinforcing Steel	72,689	8,858	35,585	 					
S·7	292,600	Lbs.	Structural Steel	292,600			 					
5-8	292,600	Lbs.	Field Painting of Structural Steel	292,600								
5-14	655	Lin. Ft.	Railing (Aluminum Rail and Supports, and				655					
			Concrete Parapet.)									
S-16	Lump Sum	1	First Test Pile				Lump					
5-18	2,580	Lin. Ft.	12" & Cast-in-place Reinforced Concrete Piles		420	2./60						
5-24	Lump Sum	8 8	Removal of existing 10'x 4.5' Box Culvert				Lump Sum					
		S. 200										
5-29	22	Cu.Yd.	Porous Backfill		22		 					
5-29	109	Cu.Yd.	Slope Facing (5~29.05 Type)				109					
						the state of the s						

SEAS TE THINK SO STEELING THE PARKS	erininin (d. Colono de la colono	MARCE INVIDENCE -	F	YE R	5					
MARK	TOTAL	S/ZE	LENGTH	TYPE	A	B	C	D	E	WEIGHT LB
PIIOI	6	1/	32'- 0"	6	219	27-2"	SCHOOL SCHOOL SAME	- Personal March	Development and	1,020
P1102	6	11	34'-0"	6	21.9	29-2"				1,084
P1103	6	1/	34'-6"	6	21-9"	29-8"				1,100
P1104	108	11	17'-8"	Str.						10,137
P1105	54	11	19'-0"	Str.						5,45/
P1106	162	11	7'-2"	1	6.0"	1-68				6,168
P1107	15	//	30'-3"	8	1-7"	274/"	1-0%			2,411
P908	6	9	10'-0"	Str.						204
P709	180	7	10'-4"	8	10"	8'8"	63"			3,802
P510	60	5	3'-8"	6	7 5 "	248"		T	THE STATE OF THE	229
P511	6	5	3'-2"	6	75"	2'-2"	CONTRACTOR MANAGEMENT	T		20
P512	6	5	2'-6"	6	7 \$ "	1-6"			-	16
P513	24	5	8'-4"	9	2'-3"	2'-5"	***************************************		1-2"	209
P514	132	5	6'-11"	6	243"	2'-8"				952
P515	6	5	27'-1"	Str.						169
MARK	TOTAL	S/ZE	SPIR. LENGTH	P/7	BAF CH		URNS	CORE	D/A.	WEIGHT LB.
SP401	6	2"0	15'-0"	4 2	11	4.		32		1,690
SP402	3	½"Ø	16'-4"	4 ½		47	7	32) //	923
				CONTRACTOR CONTRACTOR			9012.le0e946+rei	Weight		35,585

SPIRAL NOTES

The "length" shown in the steel list for the spiral bars is the distance from the top of the footing to the bottom of the pier cap.

The "No. of Turns" shown in the steel list for the spiral bars is the "length" divided by the pitch, plus 3 turns (total number of closed coils), expressed as the nearest whole number.

Spiral reinforcing bars shall not have deformations but shall in other respects conform to Item 5-4.

1/2 closed coils shall be provided at ends of each spiral unit. Four steel channel, tee or angle spacers, weighing approximately 0.68 lbs. per lin. ft. of spacer, shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The number of pounds of these spacers, based on 0.68 lbs. per lin. ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

BAR SIZE

Bar size is indicated in the bar mark. The first digit where three digits are used, and the first two digits where four are used. indicate the bar size number. For example, A401 is a No. 4 size bar and A/1/4 is a No.// size bar. MICHAEL BAKER JR., CONSULTING ENGINEERS ROCHESTER, PENNSYLVANIA

REINFORCING STEEL LIST & ESTIMATED QUANTIT BRIDGE NO. ASD. -1-0417 UNDER ASHLAND CO. 138 QUANTITIES

L.M. D.E.B.

ASHLAND COUNTY

STA. 38+25.30 Drawn Traced Checked Reviewed-Date Revised

1-14-58

Sheet 7 of 7

C.C. L.M.

HOE THACHAS CLOTH T. H