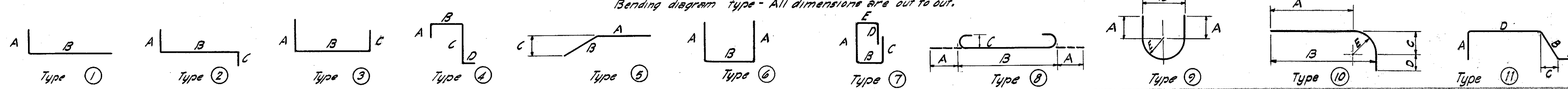


REINFORCING STEEL BAR SCHEDULE

Bending diagram type - All dimensions are out to out.



PIERS

MARK	TOTAL	SIZE	LENGTH	TYPE	A	B	C	D	E	WEIGHT
P1001	10	10	18'-0"	Str.						775
P1002	10	10	38'-4"	6	2'-8"	33'-8"				1649
P1003	5	10	38'-6"	6	2'-8"	33'-10"				828
P1004	10	10	36'-2"	6	2'-8"	31'-6"				1554
P1005	72	10	17'-8"	Str.						5,473
P1006	72	10	19'-0"	Str.						5,887
P1007	36	10	19'-9"	Str.						3,059
P1008	180	10	6'-10"	1	5'-9"	1'-4"				5,294
P909	40	9	34'-0"	8	1'-3"	31'-6"	11 1/2"			4,624
P610	300	6	9'-0"	8	8"	7'-8"	6"			4,055
P511	200	5	6'-9"	6	2'-2"	2'-8"				1,408
P512	40	5	8'-3"	9	2'-3"	2'-5"		1'-2 1/2"		344
P513	10	5	2'-9"	6	7 1/8"	1'-9"				29
P514	10	5	3'-2"	6	7 1/8"	2'-2"				33
P515	130	5	3'-8"	6	7 1/8"	2'-8"				497
P516	10	5	31'-6"	Str.						329

SPIRAL BARS

MARK	TOTAL	SIZE	LENGTH	PITCH	No. of turns	CORE DIA	WEIGHT
SP401	6	1/2" φ	15'-1"	4 1/2"	43	32"	1691
SP402	6	3/4" φ	16'-5"	4 1/2"	47	32"	1848
SP403	3	1/2" φ	17'-2"	4 1/2"	49	32"	964

Total Weight 40,341

ABUTMENTS

MARK	TOTAL	SIZE	LENGTH	TYPE	A	B	C	D	E	WEIGHT
A601	74	6	16'-0"	7	6'-5"	1'-5"	5'-1"	2'-11"	10"	1,778 Lbs
A602	76	6	9'-7"	1	4'-5"	5'-4"				1,094
A503	24	5	10'-5"	Str.						261
A504	76	5	3'-5"	Str.						271
A505	32	5	37'-8"	Str.						1,257
A506	60	5	3'-2"	6	7 3/8"	2'-2"				198
A507	76	5	3'-0"	Str.						238
A508	8	5	39'-8"	Str.						331
A509	36	5	8'-5"	6	3'-9"	1'-2"				316
A510	64	5	6'-1"	6	1'-7"	3'-2"				406
A511	48	5	8'-9"	Str.						438
A512	24	5	7'-0"	Str.						175
A513	32	5	8'-5"	Str.						281
A514	32	5	3'-9"	Str.						125
A515	8	5	6'-5"	Str.						54
A516	8	5	9'-0"	Str.						75
A517	32	5	3'-6"	Str.						117
A518	8	5	7'-7"	5	4'-7"	3'-1"	1'-3"			63
A519	36	5	18'-10"	Str.						519
A520	8	5	3'-7"	Str.						30
A521	8	5	4'-2"	Str.						35
A522	16	5	12'-8" to 18'-5"	Str.					2, each vary by 9"	218
A523	48	5	6'-5"	11	7 3/8"	1'-3"	3"	4'-9"	0"	321
A524	8	5	17'-0"	10	10'-0"	18'-10"	3'-10"	1'-0"	3'-10"	142
A525	8	5	5'-3" to 6'-0"	11	7 3/8"	1'-3"	3"	3'-7" to 4'-4"	0"	47
A526	48	5	5'-4"	1	7 3/8"	4'-10"				267
A527	8	5	4'-2" to 4'-11"	1	7 3/8"	3'-8" to 4'-5"	*			38
A528	32	5	7'-2"	8	7"	6'-0"	5 1/2"			239
A429	44	4	3'-5"	1	6 1/2"	3'-0"				100
A430	44	4	4'-6"	4	1'-6"	8"	2'-2"	6 1/2"		132
A431	12	4	5'-0"	1	6 1/4"	4'-7"				40
A432	12	4	7'-7"	4	3'-1"	7"	3'-9"	6 1/2"		61
R433	16	4	12'-6"	Str.						Included with railing for payment
R434	8	4	1'-8"	Str.						Included with railing for payment

Total Weight 9,667 Lbs.

SUPERSTRUCTURE

MARK	TOTAL	SIZE	LENGTH	TYPE	A	B	C	D	E	WEIGHT
S601	671	6	36'-7"	Str.						36,870 Lbs.
S602	120	6	29'-0"	Str.						5,227
S603	658	6	38'-0"	Str.						37,536
S504	658	5	38'-0"	Str.						26,079
S505	768	5	6'-8"	11	7 3/8"	1'-2"	2"	4'-8"	7 3/8"	5,340
S406	768	4	3'-5"	1	6 1/2"	3'-0"				1,753
S407	768	4	4'-6"	4	1'-6"	8"	2'-2"	6 1/2"		2,309
R408	168	4	16'-7"	Str.						Included with railing for payment
R409	16	4	13'-6"	Str.						Included with railing for payment

Total Weight 115,134 Lbs.

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.
If 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.

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPERSTR.	ABUTS.	PIER	GENERAL
E-2	170	Cu. Yd.	Unclassified Excavation			170	
E-2	356	Cu. Yd.	Shale Excavation			356	
S-1	470	Cu. Yd.	Class "C" concrete, superstructure	470			
S-1	122	Cu. Yd.	Class "C" concrete, pier caps and columns			122	
S-1	98	Cu. Yd.	Class "E" concrete, abutments above footings		98		
S-1	150	Cu. Yd.	Class "E" concrete, footings		43	107	
S-4	165,142	Lb.	Reinforcing Steel	115,134	9,667	40,341	
S-7	350,100	Lb.	Structural Steel	350,100			
S-8	350,100	Lb.	Field painting of structural steel, as per plan.	350,100			
S-14	821	Lin. Ft.	Railing, Type "C" (aluminum rails and supports, concrete parapet.)	821			
S-29	25	Cu. Yd.	Porous backfill		25		
I-10	348	Sq. Yd.	Crushed Aggregate Slope Protection				348

REPLACEMENT BARS

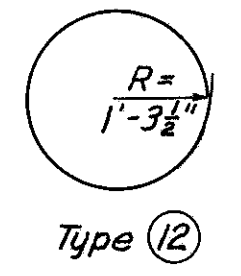
MARK	No.	SIZE	LENGTH	TYPE	WEIGHT
RE1001	2	10	7'-2"	Str.	
RE902	1	9	6'-10"	Str.	
RE603	5	6	5'-11"	Str.	
RE504	3	5	5'-7"	Str.	
RE405	1	4	5'-3"	Str.	
RE406	1	1/2" φ	5'-3"	12	

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.

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 bar and A114 is a no. 11 bar.



MICHAEL BAKER JR., CONSULTING ENGINEERS
ROCHESTER, PENNSYLVANIA

**REINFORCING STEEL LIST
& ESTIMATED QUANTITIES**
BRIDGE NO. CUY. -I-1725
UNDER HIGHLAND ROAD

CUYAHOGA CO. STA. 70 +84.77

Designed	Drawn	Traced	Checked	Reviewed-Date	Revised
E.E.W.	S.A.L.	W.A.V.	G.S.W.	H.G.H. 12-30-58	4-19-60

Y.E.