1/84

UNDERGROUND UTILITIES
48 HOURS BEFORE YOU DIG
CALL: 1-800-362-2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS MUST BE CALLED DIRECTLY

OHIO TURNPIKE COMMISSION

THE JAMES W. SHOCKNESSY OHIO TURNPIKE

CONTRACT CIP 43 - 85 - 05

TURNPIKE BRIDGE DECK REPLACEMENT & WIDENING

OVER

SUGAR CREEK M. P. 81.3

WOLF CREEK M. P. 82.02

CONRAIL M. P. 83.26

WAGGONER RD. (C.R. 82) M. P. 83.30

OTTAWA COUNTY AND SANDUSKY COUNTY

ORIGINAL CONTRACT SECTION C-41

INDEX OF SHEETS

TITLE SHEET	1
ALIGNMENT PLAN	2
TYPICAL SECTIONS	3
GENERAL NOTES	4
GENERAL SUMMARY	5-6
MISCELLANEOUS DETAILS	7-9
SUGAR CREEK	
20 SCALE PLAN	10
PROFILE	11
CROSS SECTIONS	12-14
WOLF CREEK	
20 SCALE PLAN	15
PROFILE	16
CROSS SECTIONS	17-18
CONRAIL/WAGONER RD.	
20 SCALE PLAN	19-21
PROFILE	22
CROSS SECTIONS	23-28
MAINTENANCE OF TRAFFIC	29-34
STRUCTURE PLANS - DECK JOINT DETAILS	35
SUGAR CREEK	36-46
WOLF CREEK	47-54
CONRAIL	55-72
WAGONER ROAD	73-84

STANDARD DRAWINGS

BP-2	12-6-76
BP-3	12-6-76
BP-5	7-16-81
BP-7	12-6-76
F-2	5-1-76
F-3	5-1-76
GR-1	2-5-82
GR-2B	2-5-82
GR-3	2-5-82
GR-4A	1-30-84
GR-4	2-5-82
MC-3	6-1-73
MC-4	7-26-76
MC-7	10-15-76
MC-9A	5-1-81
MC-11	8-1-78
TC-35.10	8-29-84

PLANS PREPARED BY
ERIKSSON ENGINEERING, LTD.
COLUMBUS, OHIO

PROJECT LOCATION

0 1 2 3 4 5 6
SCALE IN MILES

AS BUILT
12-16-86

APPROVED FOR
THE OHIO TURNPIKE COMMISSION
BY
E. William Plassio
CHIEF ENGINEER
5-12-85
DATE

ALIGNMENT PLAN

OHIO TURNPIKE COMMISSION
CIP 43-85-05

2/84

SHEET 2 OF 84

ALIGNMENT PLAN

OHIO TURNPIKE COMMISSION
CIP 43-85-05

3
84

⊗ EXISTING AGGREGATE DRAIN MATERIAL REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED, RESHAPED, OR RESTORED IN ACCORDANCE WITH THE REQUIREMENTS OF ITEM SP 605, AGGREGATE DRAINS. EXISTING AGGREGATE DRAIN OUTLETS SHALL BE MAINTAINED. NO ADDITIONAL PAYMENT SHALL BE MADE FOR THIS WORK. PAYMENT SHALL BE INCLUDED WITH ITEM 304, AGGREGATE BASE.

* 0'-0" WITHOUT ASPHALT CONRETE CURB
1'-1" WITH ASPHALT CONCRETE CURB

NOTE: TRANSITION SHOULDER SLOPE FROM 3/16"/FT. AT APPROACH SLAB TO 1/2"/FT. NORMAL SHOULDER SLOPE IN 50 FEET, OR AS DIRECTED BY THE ENGINEER.

SUGAR CREEK	STA. 377+50 TO STA. 379+02.58
WOLF CREEK	STA. 380+68.32 TO STA. 381+50
CONRAIL/WAGGONER RD.	STA. 3+75 TO STA. 5+30.88
	STA. 6+29.13 TO STA. 7+25
	STA. 68+50 TO STA. 69+37.20
	STA. 76+91.03 TO STA. 77+75

FASTBOUND LIMITING STATIONS

DETAIL A

SUGAR CREEK	STA. 378+50 TO STA. 379+31.69
WOLF CREEK	STA. 380+97.43 TO STA. 382+75
CONRAIL/WAGGONER RD.	STA. 4+50 TO STA. 5+30.88
	STA. 6+29.13 TO STA. 7+75
	STA. 65+75 TO STA. 67+00.42
	STA. 72+44.65 TO STA. 74+54.61 ‡ (MAINTAIN 3/16"/FT. ON OUTSIDE SHOULDER SLOPE)
	STA. 76+51.49 TO STA. 77+75

WESTBOUND LIMITING STATIONS

LEGEND

1	SP 404	~ 1" Asphalt Concrete AC-20
2	402	~ Variable Depth Asphalt Concrete AC-20
3	SP 451	~ 10" Reinforced Concrete Pavement
4	402	~ 6" Asphalt Concrete AC-20
5	SP 310	~ 6" Subbase Grading A, Type 1
6	SP 304	~ 4" Aggregate Base
7	SP 407	~ Tack Coat
8	SP 408	~ Prime Coat
9	SP 414	~ Surface Treatment for Shoulders
10	SP 606	~ Gaurdrail Rebuilt Type 5
11	SP 609	~ Asphalt Concrete Curb
12	659	~ Seeding and Mulching
13	SP 617	~ Reconditioning Shoulders without Guardrail
14	SP 627	~ Stone Shoulder Protection with Guardrail
15	653	~ 2" Topsoil Furnished & Placed

(A) Existing 10" Reinforced Portland Cement
(B) Existing 6" Sub-base

Note: The taper to the new approach slab and bridge shall be adjusted to field conditions. See General Notes.

FEATHER TO APPROACH SLAB

APPROACH SLAB DETAIL
for Additional Details, See Sheet No. 7

SHEET 3 OF 84

TYPICAL SECTIONS.

SUMMARY OF QUANTITIES AND GENERAL SUMMARY
(ROADWAY)

OHIO TURNPIKE COMMISSION
C.I.P. 43-85-05

5/84

COMPUTED BY _____ DATE _____
CHECKED BY _____ DATE _____

ITEM	TOTAL FROM SHEET NUMBER 4		10		15		19	20	21	29	GENERAL SUMMARY ITEM	QUANTITY	UNIT	DESCRIPTION
201	LUMP										201	LUMP	LUMP	CLEARING AND GRUBBING
202			1169		1277		295	335	430		202	3566	S.Y.	WEARING COURSE REMOVED FULL DEPTH
202			172		160		248	169	90		202	859	S.Y.	PAVEMENT REMOVED, RIGID
202			1000		825		400	542.6	387.5		202	3159.1	L.F.	GUARDRAIL REMOVED FOR REUSE, TYPE 5
202			4		8		3		4		202	19	EACH	INLET REMOVED
202							1	2			202	3	EACH	CATCH BASIN REMOVED, SALVAGE FRAME AND GRATE
202			112		156		78	26	50		202	422	L.F.	PIPE 24" & UNDER REMOVED
202			312		346		504	373	212		202	1747	L.F.	FENCE REMOVED
203			64		52		63	63	24		203	266	C.Y.	EMBANKMENT
203			230		269		165	118	107		203	889	C.Y.	EXCAVATION, NOT INCLUDING EMBANKMENT
203			1352		1125		1133	873	678		203	5161	S.Y.	SUBGRADE COMPACTION
			105		100		50	47	46					
SP 304	70		76		42		117	77	46		SP 304	348	C.Y.	AGGREGATE BASE
SP 310										50	SP 310	428	C.Y.	SUBBASE GRADING A, TYPE I
402			200		222		95	90	88		402	50	C.Y.	3" ASPHALT CONCRETE, AC-20 AS PER PLAN
SP 404			39		37		17	16	17		402	695	C.Y.	ASPHALT CONCRETE, AC-20
											SP 404	126	C.Y.	ASPHALT CONCRETE, AC-20
SP 407			133		129		58	57	56	130	404	130	C.Y.	ASPHALT LEVELING COURSE FOR MAINTAINING TRAFFIC ON CROSSOVERS
SP 408			460		441		222	210	202		SP 407	433	GAL.	TACK COAT
SP 414			460		441		222	210	202		SP 408	1535	GAL.	PRIME COAT
SP 414			919		879		444	420	403		SP 414	1535	GAL.	BITUMINOUS MATERIAL FOR SHOULDER SURFACE TREATMENT
											SP 414	3065	S.Y.	AGGREGATE FOR SHOULDER SURFACE TREATMENT
SP 451	130										SP 451	130	C.Y.	COMPACTED SUBGRADE
SP 451	400		156				284	171	127		SP 451	1135	S.Y.	FULL DEPTH PAVEMENT REPAIRS
SP 451	80										SP 451	80	L.F.	JOINT REPAIR, TYPE D
SP 451	450										SP 451	450	L.F.	JOINT REPAIR, TYPE H
SP 451	100										SP 451	100	L.F.	JOINT REPAIR, TYPE K
SP 451	100										SP 451	100	L.F.	JOINT REPAIR, TYPE L
SP 451	48										SP 451	48	L.F.	EXPANSION JOINT
SP 603			76								603	76	L.F.	15" CONDUIT, TYPE B 706.02
SP 603							7	14			603	21	L.F.	12" TYPE F CONDUIT, 707.01 (EXCEPT GALVANIZED) OR 707.05 TYPE C WITHOUT PAVED INVERT.
SP 603			74								603	74	L.F.	15" TYPE F CONDUIT, 707.01 (EXCEPT GALVANIZED) OR 707.05 TYPE C WITHOUT PAVED INVERT.
SP 604							1	2			SP 604	3	EACH	CATCH BASIN, USING SALVAGED FRAME AND GRATE
604									1		604	1	EACH	CATCH BASIN, ADJUSTED TO GRADE
SP604			4								SP604	4	EACH	CATCH BASIN
SP 605	600										SP 605	600	L.F.	AGGREGATE DRAINS, TYPE II
606			75		75		75		75		606	300	L.F.	GUARDRAIL STANDARD TYPE 5, USING STEEL POSTS
SP 606			1000		825		400	559.18	387.5		SP 606	3171.68	L.F.	GUARDRAIL REBUILT, TYPE 5
606			7		7		4	4	4		606	26	EACH	BRIDGE TERMINAL ASSEMBLY TYPE A
606			2		2						606	4	EACH	ANCHOR ASSEMBLY TYPE T
606			1		1		1		1		606	4	EACH	ANCHOR ASSEMBLY TYPE A

Rev	Description	By	Date
1	REV. PAV'T REM'D QUANT.	DFC	3-27-85

SUMMARY OF QUANTITIES & GENERAL SUMMARY

SUMMARY OF QUANTITIES AND GENERAL SUMMARY
(ROADWAY)

OHIO TURNPIKE COMMISSION
C.I.P. 43-85-05

6 / 84

COMPUTED BY _____ DATE _____
CHECKED BY _____ DATE _____

ITEM	TOTAL FROM SHEET NUMBER 4		10		15	31	19	20	21	29	GENERAL SUMMARY ITEM	QUANTITY	UNIT	DESCRIPTION
607			299		322		482	363	202		607	1657	L.F.	FENCE, TYPE 47
SP609			91		20		292	303	216		SP 609	922	L.F.	ASPHALT CURB, AC-20, STANDARD TYPE 1
SP611			278		262		405	292	148		SP 611	1375	S.Y.	CLASS "S" CONCRETE APPROACH SLAB, USING SHRINKAGE COMPENSATING CEMENT (T=10")
SP617	317										SP 617	317	S.Y.	SHOULDER PREPARATION
SP617	36										SP 617	36	C.Y.	COMPACTED AGGREGATE
SP617	1										SP 617	1	M-GAL.	WATER
						1,800					621	1,800	L.F.	REMOVAL OF PAVEMENT MARKINGS
										15,800	SP 622	15,800	L.F.	TEMPORARY CONCRETE BARRIER (FURNISHED BY ~~COMMISSION~~ CONTRACTOR)
						~~1350~~ 700					SP 626 A	~~1350~~	EA.	CONSTRUCTION ZONE MARKERS, ONE-WAY MODEL, WHITE
											SP 626 A	700	EA	CONSTRUCTION ZONE MARKERS, ONE-WAY MODEL, YELLOW
SP627	276										SP 627	276	TON	STONE SHOULDER PROTECTION
653			22		22		18	17	14		653	93	C.Y.	TOPSOIL FURNISHED AND PLACED
659			478		940		569	537	442		659	2966	S.Y.	SEEDING & MULCHING
659	0.3										659	0.3	TON	COMMERCIAL FERTILIZER
660					38		14	7	14		660	73	S.Y.	REINFORCED SODDING
207	40										207	40	EACH	STRAW OR HAY BALES
SP113											~~SP 113~~	~~LUMP~~	~~LUMP~~	~~RAILROAD PROJECTIVE LIABILITY INSURANCE~~
SP619											SP 619	LUMP	LUMP	FIELD OFFICE
SP623											SP 623	LUMP	LUMP	CONSTRUCTION LAYOUT SURVEY
624											624	LUMP	LUMP	MOBILIZATION
SP614										LUMP	SP 614	LUMP	LUMP	MAINTAINING TRAFFIC
103.05											103.05	LUMP	LUMP	PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND

REV.	DESCRIPTION	BY	DATE
1	SP 626, REPLACE "COMMISSION" WITH "CONTRACTOR" SP 626 A, REVISED QUANTITY SP 113 DELETED ITEM	J.D.L.	12/12/85

SHEET 6 OF 84

SUMMARY OF QUANTITIES & GENERAL SUMMARY

PLAN

APPROACH SLAB FOR SKEWED BRIDGE

GENERAL THIS DRAWING PROVIDES DESIGN AND GENERAL CONSTRUCTION DETAILS THE PROJECT PLANS WILL SHOW SKEW, CURBS (IF ANY), ESTIMATED QUANTITY (SQ. YDS.), AND SPECIAL NOTES AND DETAILS, WHERE NECESSARY FOR CONDITIONS OTHER THAN THOSE INDICATED HEREON. THE APPROACH SLAB SHALL BE ADAPTED TO FIT THE ENDS OF THE BRIDGE AND THE APPROACH PAVEMENT.

DESIGN DATA

CONCRETE: CLASS S USING SHRINKAGE COMPENSATING CEMENT
REINFORCING STEEL: A.S.T.M. A615, A616 OR A617 – GRADE 60 MIN. YIELD STRENGTH 60,000 P.S.I.

PREFORMED EXPANSION JOINT FILLER AND SEALER AT THE CORNERS AND SIDES OF THE APPROACH SLAB SHALL BE INCLUDED IN THE PRICE BID PER SQ. YARD FOR THE APPROACH SLAB

GROOVE AND JOINT SEAL SHOWN AT THE BRIDGE LIMIT END OF THE APPROACH SLAB SHALL BE INCLUDED IN THE PRICE BID PER SQ. YARD FOR THE APPROACH SLAB

TYPE A WATERPROOFING SHOWN AT THE ABUTMENT SLAB SHALL BE INCLUDED IN THE PRICE BID PER SQ. YARD FOR THE APPROACH SLAB.

LONGITUDINAL CONSTRUCTION JOINTS REQUIRED FOR STAGE CONSTRUCTION SHALL BE AS PER 511.09.

CURBS, BRIDGES WITH SIDEWALKS: FOR BRIDGES CONSTRUCTED WITH RAISED SIDEWALKS, DEFLECTOR PARAPETS OR OTHER TYPES OF CONSTRUCTION WHICH RETAIN ROADWAY SURFACE DRAINAGE, THE APPROACH SLABS SHALL EITHER INCLUDE INTEGRAL CURBS OR BE CONSTRUCTED IN CONJUNCTION WITH BRIDGE CURBS. CURB HEIGHT SHALL BE TRANSITIONED UNIFORMLY BETWEEN BRIDGE CURB HEIGHT AND APPROACH CURB HEIGHT IN LENGTH AS FOLLOWS: WHERE WINGWALL EXTENDS BEYOND END OF APPROACH SLAB, USE A MINIMUM LENGTH OF 10 FT BEYOND END OF WINGWALL. WHERE THE APPROACH SLAB EXTENDS BEYOND THE END OF WINGWALL, TRANSITION IN THIS LENGTH. HOWEVER, THE TRANSITION LENGTH SHALL NOT BE LESS THAN 10 FT AND THE TRANSITION SHALL EXTEND BEYOND THE END OF THE APPROACH SLAB IF NECESSARY

APPROACH SLAB WIDTH APPROACH SLABS SHALL BE THE SAME WIDTH AS THE BRIDGE ROADWAY, UNLESS SHOWN OTHERWISE ON THE PLANS.

CROWN SHALL CONFORM TO THAT OF THE APPROACH PAVEMENT AND BRIDGE DECK. IF THE RATE OF CROWN OF THE BRIDGE DECK DIFFERS FROM THAT OF THE APPROACH PAVEMENT, A SMOOTH TRANSITION SHALL BE PROVIDED WITHIN THE LIMITS OF THE APPROACH SLAB.

TRANSVERSE JOINT DETAILS AT THE APPROACH PAVEMENT END OF THE APPROACH SLAB SHALL BE EITHER TYPE 'K' OR 'H' AS DETAILED ON THE PLANS. PAYMENT FOR THE TRANSVERSE JOINT SHALL BE AT THE UNIT PRICE BID PER LIN FT FOR THE TYPE OF JOINT FURNISHED.

SECTION A-A

NOTE 1: GROOVE AND SEAL AS PER O.D.O.T. STD. CONST. DWG. BP-3.

NOTE 2: TYPE A WATERPROOFING SHALL NOT EXTEND ABOVE THE BOTTOM OF THE GROOVE INTO WHICH THE JOINT SEALER IS TO BE PLACED. IT SHALL BE APPLIED TO THE ENTIRE AREA OF THE ABUTMENT OR SUPERSTRUCTURE WHICH COMES INTO CONTACT WITH THE APPROACH SLAB.

NOTE 3: REPAIR OF BROKEN APPROACH SLAB SEAT SHALL BE CONSTRUCTED BY THE CONTRACTOR AS PER DETAIL OR AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE MADE ON THE BASIS OF "DIRECT COSTS" PLUS 15% FOR OVERHEAD AND PROFIT. "DIRECT COSTS" SHALL BE DEFINED UNDER SECTION G-9.02(5) OF THE GENERAL CONDITIONS.

NOTE: SEE SHEET NO. 3 FOR APPROACH SLAB TYPICAL SECTION.

APPROACH SLAB SEAT REPAIR DETAIL

Nº	REVISION	BY	DATE
2	ADDED IMPRESSED JOINT & CHANGED TYPE OF CEMENT	DFC	11-28-84
1	ADDED SEAT REPAIR DETAIL	DFC	10-2-84

OHIO TURNPIKE COMMISSION

REINFORCED CONCRETE APPROACH SLABS

DATE: OCTOBER 1983 | SCALE: N.T.S. | SHEET 7 OF 84

Note: Turf of a stable nature shall not be removed in order to place ITEM 660.

REF. NO.	STATION TO STATION	SIDE	202 MT'RINS COURSE REMOVED FULL-DEPTH S.Y.	202 PAVEMENT REMOVED FULL-DEPTH S.Y.	202 GUARDRAIL REMOVED FOR REUSE L.F.	202 S.A. ASS'BLY FRAME AND GRATE EA.	202 9 PF. REMOVED 9 PF. REUSED L.F.	202 FENCE REMOVED L.F.	603 12" CONDUIT TYPE F 707.01 or 707.02 L.F.	SP603 S.A. ASS'BLY FRAME & GRATE EA.	SP606 GUARDRAIL REBUILT TYPE 1 L.F.	606 BRIDGE TERM. ASSEMBLY TYPE 4 EA.	607 FENCE TYPE 47 L.F.	660 R. ENFORCED SODDING S.Y.
1-R	71+96.62 TO 74+71.34	LT.	395	169										
2-R	71+92	LT.				1	13							
3-R	74+42	LT.				1	13							
4-R	71+34.60 TO 74+60.80	LT.			313.2						326.15	2		
5-R	72+17 TO 74+80	LT.			229.4						233.03	2		
6-R	72+11 TO 73+49	L/R						143					143	
7-R	74+92 TO 75+15	L/R						50					50	
8-R	74+60 TO 74+75	LT.						95					90	
9-R	71+07	LT.						85					80	
1-EC	73+27	LT.												7
1-D	71+92	LT.							7	1				
2-D	74+42	LT.							7	1				
TOTALS			395	169	542.6	2	26	373	14	2	559.18	4	363	7

REF. NO.	STATION TO STATION	SIDE	203 EXCAVATION AND EMBANKMENT	203 EMBANKMENT	203 SUBGRADE COMPACTION	653 2" TOPSOIL FURNISHED & PLACED	669 SEEDING & MULCHING	SP391 Full Depth Pav't Repairs	SP304 AGGREGATE BASE	SP310 SUBBASE GRADING A	402 ASPHALT CONCRETE AC-15	402 ASPHALT CONCRETE AC-20	SP404 TACK COAT	SP407 PRIME COAT	SP408 BIT. MATERIAL FOR SPRAY APPL.	SP414 AGG. FOR BIT. CONC. SURF. COURSE	SP609 ASPHALT CONCRETE CURB	SP611 TOP. CONC. PAV. BASE
			C.Y.	C.Y.	S.Y.	C.Y.	S.Y.	S.Y.	C.Y.	C.Y.	C.Y.	C.Y.	GAL.	GAL.	GAL.	S.Y.	L.F.	S.Y.
1-P	72+43.58 TO 74+54.98	LT.			591			171	47	29	90	16	57	210	210	420		
1-AS	71+95.55 TO 72+43.58	LT.			208					36								208
2-AS	74+54.98 TO 74+71.71	LT.			74					13								74
1-C	71+81.23 TO 74+45.22	LT.															258	
2-C	72+80 TO 73+25	LT.															45	
1-E	71+35 to 74+79	L/R	118	63		17	537											
TOTALS			118	63	873	17	537	171	47	77	90	16	57	210	210	420	303	282

NOTE: SEE SHEET NO. 7 FOR APPROACH SLAB DETAILS.

Rev	Description	By	Date
1	REV. PAV'T REM'D QUANT	DFC	3-27-85

NOTE: SEE SHEET NO. 2 FOR APPROACH SLAB DETAILS.

Ref. No.	Station to Station	Side	202 Warning Court Removed	202 Pavement Removed	202 Fence Removed	202 Guardrail Removed	202 Inlet Removed	202 Pipe Removed 24" & Under	202 Fence Removed	606 Anchor Assy. Std. Type A	604 C.B. Adjust. to grade	606 Guardrail Std. Type S	SP606 Guardrail Rebuilt Type S	606 Bridge Term. Assembly Type A	607 Fence Type 47	660 Rainbows Sodding
			S.Y.	S.Y.	L.F.	EA.		L.F.	L.F.	EA.	EA.	L.F.	L.F.	EA.	L.F.	S.Y.
1-R	76+34.39 TO 77+75	LT.	264	45												
2-R	76+33	LT.				1		25								
		LT.														
		LT.				1										
5-R	76+24 TO 77+74	LT.			150								150	1		
6-R	76+42.50 TO 77+80	LT.			137.5								137.5	1		
7-R	76+73.93 TO 77+75	RT.	166	45												
8-R	76+74	RT.					1									
9-R	76+91	RT.					1		25							
10-R	76+85 TO 77+82	RT.			100								100	1		
11-R	76+30 TO 76+52	L/R								49					49	
12-R	76+11	LT.								83					78	
13-R	76+70 TO 77+07	RT.								80					76	
1-GR	76+65.77 TO 77+65.77	RT.								1		75		1		
1-D	77+69	LT.									1					
1-EC	76+64	LT.														7
2-EC	76+89	RT.														7
Totals			430	90	387.5	4		50	212	1		1	75	387.5	4	202	14

Ref. No.	Station to Station	Side	203 Excavation and Backfill Embankment	203 Embankment	203 Sub-grade Compaction	653 1" Topsoil Furnished & Placed	659 Seeding & Mulching	SP451 Full Depth Pvmt. Repairs	SP304 Aggregate Base	SP310 Sub-base Crushing & Compacting	402 Asphaltic Concrete Base	SP402 Asphaltic Concrete	SP407 Asphalt Concrete	SP408 Tack Coat	SP414 Prime Coat	SP414 Bit. Material for Shoulder Surface Treat.	SP414 Surface Treat. Asphalt Shoulder	SP609 Asphalt Concrete Curb	SP611 18" Rout. Concrete Apprch. Slab
			C.Y.	C.Y.	S.Y.	C.Y.	S.Y.	S.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	Gal.	Gal.	Gal.	S.Y.	L.F.	S.Y.
1-P	76+51.12 TO 77+75	LT.			312			67	28	12	53	10	33	123	123	123	245		
2-P	76+90.66 TO 77+75	RT.			218			60	18	10	35	7	23	79	79	79	158		
1-AS	76+31.39 TO 76+51.12	LT.			74					12									74
2-AS	76+73.93 TO 76+90.66	RT.			74					12									74
1-C	76+40.24 TO 77+75	LT.																132	
2-C	77+00.79 TO 77+75	RT.																74	
3-C	76+59.28 TO 76+84.28	LT.																5	
4-C	76+82.50 TO 76+87.50	RT.																5	
1-E	76+26 TO 77+75	L/R	107	24		14	442												
Totals			107	24	678	14	442	127	46	46	88	17	56	202	202	403	216	148	

PLAN - SKEW ANGLE < 20°
(Strip Seal Shown, Compression Seal Similar)
Scale: 1/4" = 1'-0"

PLAN - SKEW ANGLE 20° TO 45°
(Strip Seal Shown, Compression Seal Similar)
Scale: 1/4" = 1'-0"

PLAN - SKEW ANGLE > 45° (STRIP SEAL ONLY)
Scale: 1/4" = 1'-0"

GENERAL NOTES

ELASTOMERIC COMPRESSION SEALS SHALL BE USED AT FIXED JOINTS ONLY, AND AT SKEWS LESS THAN 45°.

STUD ANCHORS SHALL BE LOW CARBON STEEL ASTM A-108.

ALL WELDING SHALL CONFORM WITH A.W.S. AND AASHTO SPECIFICATIONS FOR WELDED HIGHWAY AND RAILWAY BRIDGES.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.

ELASTOMERIC COMPRESSION SEAL SHALL BE WABO-ACME J-200, D.S. BROWN D.S. 200 OR APPROVED EQUAL.

CONTINUOUS STRIP SEAL SHALL BE AS MANUFACTURED BY WABO-ACME, D.S. BROWN, GENERAL TIRE OR APPROVED EQUAL, AND SHALL BE THE SIZE AS SPECIFIED

DETAILS AT DIAPHRAGMS SHOWN, DETAILS AT BEAMS OR GIRDERS SIMILAR.

TABLE A

STRIP SEAL SIZE	STRIP SEAL JOINT OPENING INSTALLATION CHART						
	TEMPERATURE °F						
	30	40	50	60	70	80	90
3"	2-1/4"	2-1/8"	2"	1-7/8"	1-3/4"	1-5/8"	1-1/2"
4"	2 5/8"	2 1/2"	2 1/2"	2 3/8"	2 1/4"	2 1/8"	2"
5"	2 7/8"	2 3/4"	2 3/4"	2 5/8"	2 5/8"	2 1/2"	2 3/8"

ABUTMENT

SUPERSTRUCTURE

SECTION A-A (COMPRESSION SEAL)
Scale: 3/4" = 1'-0"

ABUTMENT

SUPERSTRUCTURE

SECTION A-A (STRIP SEAL)
Scale: 3/4" = 1'-0"

SECTION B-B (STRIP SEAL)
Scale: 1 1/2" = 1'-0"

SECTION B-B (COMPRESSION SEAL)
Scale: 1 1/2" = 1'-0"

SECTION C-C
No Scale

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

SECTION E-E
No Scale

OHIO TURNPIKE COMMISSION

DECK JOINT DETAILS

DATE: JANUARY 1985	SCALE: AS NOTED
FIP:	SHEET 35 OF 84

For "GENERAL NOTES" reference is made to Structure No. 20, Sheet 1/11.

VERTICAL CURVE DATA

NORTH BRIDGE	SOUTH BRIDGE
P.V.I. Sta. 71 + 75.00	P.V.I. Sta. 72 + 50.00
Elev. = 651.32	Elev. = 649.50
V.C. = 1200'	V.C. = 800'
G_1 = +1.02 %	G_1 = +0.52 %
G_2 = -1.12 %	G_2 = -1.00 %

GENERAL PLAN

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	N. BRG	S. BRG.
SP202	Lump	Sum	Portions of structure removed (See Note A)	L.S.	L.S.
503	142	Cu. Yd.	Unclassified excavation	66	76
503	67	Cu. Yd.	Abutment backfill, as per 503.10	29	38
505	Lump	Sum	Pile driving equipment mobilization	L.S.	L.S.
507	460	Lin. Ft.	Steel piles HP10×42	230	230
509	11,881	Lbs.	Reinforcing steel, grade 60	5,821	6,060
510	48	Lin. Ft.	Dowel holes, using SP953 grout anchoring	24	24
SP511	22	Cu. Yd.	Class C concrete, pier footings	11	11
SP511	37	Cu. Yd.	Class C concrete, piers above footing	19	18
SP511	59	Cu. Yd.	Class C concrete, abutments	26	33
SP511A	100	Cu. Yd.	Class S concrete, slab & barriers using shrinkage compensating cement	49	51
SP511A	414	Cu. Yd.	Class S concrete, superstr. deck & barriers using shrinkage compensating cement	207	207
513	46,800	Lbs.	Structural steel A36 (AISC cert. not req'd.)	23,400	23,400
SP513	300	Ea.	Welded stud shear connectors	150	150
SP514	1076	Sq. Ft.	Surface Preparation - Top Flange Exterior Beam	538	538
SP514	46,800	Lbs.	Field painting of new structural steel	23,400	23,400
SP514	Lump	Sum	Field painting of exist structural steel	L.S.	L.S.
516	47	Sq. Ft.	1" preformed expansion joint filler	—	47
516	55	Lin. Ft.	PVC Waterstop, as per plan	—	55
516	43	Lin. Ft.	Joint sealer	—	43
518	12	Ea.	Scuppers, including supports	4	8
SP519	40	Sq. Ft.	Patching conc. surfaces (See Note C)	20	20
SP527	Lump	Sum	Falsework, temporary bracing & protective structures	L.S.	L.S.
SP533	173	Lin. Ft.	4" continuous strip seal in structural steel joint	86.50	86.50
SP536	2,300	Sq. Yd.	concrete weatherproofing	1,142	1,158
601	1,334	Sq. Yd.	Crushed aggregate slope protection (See Note B)	667	667
SP824	102,407	Lbs.	Epoxy coated reinforcing steel, grade 60	51,135	51,272
Special	16	Ea.	Cleaning, repairing & painting ex. brng. devices	8	8
Special	Lump	Sum	Jacking, supporting & lowering exist. str. steel	L.S.	L.S.

NOTE "A" Removal of portions of structure shall include approximately 202 cu. yds. of concrete on the N. Bridge and 202 cu. yds. of concrete on the S. Bridge.

NOTE "B" Removal and/or re-use existing aggregate slope protection along with additional material as required to provide at least a 1'-0" thickness of Item 601, crushed aggregate slope protection.

NOTE "C" Area to be repaired will be determined by the Engineer in the field. Estimated 10 sq. ft. at each abutment.

Change Order #1 - Revised pile lengths.

1/12

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE
ERIKSSON ENGINEERING LIMITED
1563 Crossroads Blvd. | Columbus, Ohio 43212 | 614/486-0231

STRUCTURE No. 15
OVER WAGGONER ROAD
GENERAL PLAN
ESTIMATED QUANTITIES
SANDUSKY COUNTY STA. 75 + 72.82

Designed	Drawn	Checked	Reviewed	Date	Revised
V.K.	[illegible]	C.S.	[illegible]	5-8-85	

PLAN
ELEVATION
SECTION A-A
SIDE WALL ELEV.
SECTION E-E
SECTION B-B
SECTION C-C
SECTION 1-1
SECTION 2-2
SECTION 3-3
SECTION 4-4
SECTION D-D
15-A603 @ 6" bottom & 38-A401 @ 12" top
3 spaces @ (10'-9 3/8"(±)) = (32'-4 3/16") Exist. beam spacing
26° 18' 22" Skew
Save existing Re-bars
Appr. Slab
Armor not shown
Bearings
Slope 1/4"/ft.
El. 642.90(±) W.Abut.
(El. 641.67(±) E.Abut.)
El. 635.96(±) W.Ab.
(El. 634.95(±) E.Ab.)
El. 646.81
New abutment slab and parapets
Existing constr. joint El. 645.04(±)
Cut along this joint
El. 647.10
El. 646.93
El. 645.50
El. 642.70
HP 10x42 (typ.)
Save exist. Re-bars
Approach Slab
Cut existing Re-bars
For detail, see O.T.C. Standard Drawing
For dowel details, See Sheet 5/11 Structure No. 20.
For Notes, See Sheet 3/12.
Reinforcing bars w/ bar marks A401, A402, A504, A510 thru A519 & A603 thru A611 shall be epoxy coated.
2/12
OHIO TURNPIKE COMMISSION
OHIO TURNPIKE
ERIKSSON ENGINEERING LIMITED
STRUCTURE No. 15
OVER WAGGONER ROAD
WEST ABUTMENT
NORTH BRIDGE
SANDUSKY COUNTY
STA. 75+ 72.82
Designed V.K.
Checked C.E.
Reviewed
Date 3.8 3.5
Revised

PLAN

ELEVATION

SECTION 1-1

SECTION 2-2

SECTION 3-3

SECTION 4-4

NOTES: (Typical for all four abutments.)

Removal of abutment slabs shall be performed in such a manner leaving reinforcing steel dowels and remaining concrete undamaged. Dowels must be carefully cleaned before any concrete of new abutment slabs shall be placed.

All piles are, HP10×42, steel piles. The estimated average pay-length is 34 ft. per pile.
The design load is 40 tons per pile.

BACKFILL shall be placed in accordance with Item 503 between the existing wingwalls and the new wingwalls, extending from the existing ground line to the bottom of the deck slab.
The contractor shall provide and place backfill between existing wingwalls as required to bring the fill to the level of the proposed slab prior to placing the new deck slab. Include with Item 503, Abutment Backfill, as per 503.10 for payment.

CONCRETE INSERT ASSEMBLIES, as shown on standard construction drawings GR-1 & GR-3, shall be provided at all wingwall terminals for attachment of guardrail terminal connectors, even though guardrail may not be specified on the roadway plans. Where the approach slab is uncurbed, concrete anchor assemblies shall be provided for wheel guard attachment. Include with Item SP811A for payment.

For details of Sections "A-A", "B-B", "C-C", & "D-D", See Sheet 2/12.

3/12

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE

ERIKSSON ENGINEERING LIMITED
1583 Conestoga Avenue • Columbus, Ohio 43212 • 614/486-1131

STRUCTURE No. 15
OVER WAGGONER ROAD
EAST ABUTMENT
NORTH BRIDGE

SANDUSKY COUNTY STA. 75+ 72.82

Designed	Drawn	Checked	Reviewed	Date	Revised
V.K.	MPJ	C.E.	[illegible]	12-8-81	

* For the first pour, the waterstop should be held securely in place by the use of split forms and tie-wires. For the second pour, secure the free end of the waterstop in proper position with tie-wires. Alternate methods as approved by the Engineer, may be used to insure the correct positioning of the waterstop.

NOTES:

PVC waterstop, joint sealer, and preformed expansion joint filler are included with Structure No. 15 for payment.

For Section "C-C", See Sheet 2/12.

For additional notes, See Sheet 3/12.

Reinforcing steel w/ bar marks A401, A402, A508 thru A516, A603 & A604 shall be epoxy coated.

4/12

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE
ERIKSSON ENGINEERING LIMITED
1603 Chesapeake Avenue · Columbus, Ohio 43212 · 614/488-0731

STRUCTURE No. 15
OVER WAGGONER ROAD
WEST ABUTMENT
SOUTH BRIDGE
SANDUSKY COUNTY STA. 75+ 72.82

Designed	Drawn	Checked	Reviewed	Date	Revised
V.K.		C.E.			

SHEET 76 OF 84

For Notes, See Sheet 3/12

Reinforcing bars w/ bar marks A401, A402, A504, A510 thru A519 & A603 thru A611 shall be epoxy coated.

5/12

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE

ERIKSSON ENGINEERING LIMITED

STRUCTURE No. 15

OVER WAGGONER ROAD

EAST ABUTMENT

SOUTH BRIDGE

SANDUSKY COUNTY STA. 75+ 72.82

Designed	Drawn	Checked	Reviewed	Date	Revised
V.K.		C.L.			

PLAN

NORTH BRIDGE PIER EXTENSION

NOTES:

All pier piles are HP 10×42 steel piles. Estimated average pay-length is 15 feet per pile, and the design load is 30 tons per pile.

PLAN

SOUTH BRIDGE PIER EXTENSION

ELEVATION

END VIEW

SECTION A-A

SECTION B-B

ELEVATION

END VIEW

SECTION A-A

SECTION B-B

6/12

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE

ERIKSSON ENGINEERING LIMITED

1523 Chesapeake Avenue • Columbus, Ohio 43212 • (614) 488-0721

STRUCTURE No. 15

OVER WAGGONER ROAD

PIERS

SANDUSKY COUNTY STA. 75+ 72.82

Designed	Drawn	Checked	Reviewed	Date	Revised
V.K.		C.G.			

FRAMING PLAN - NORTH BRIDGE

FRAMING PLAN - SOUTH BRIDGE

NORTH BRIDGE — TOP OF PAVEMENT ELEVATIONS (FINISHED)							
BEAM	SPAN No. 1		SPAN No. 2		SPAN No. 3		
	ABUT. BRNG.	℄ SPAN	PIER #1	℄ SPAN	PIER #2	℄ SPAN	ABUT. BRNG.
"A"	646.83	646.71	646.58	646.40	646.20	646.05	645.88
"B"	646.91	646.76	646.66	646.44	646.27	646.40	645.95
"C"	647.03	646.91	646.78	646.59	646.38	646.23	646.06
"D"	647.00	646.80	646.74	646.55	646.35	646.19	646.02
"E"	646.82	646.66	646.56	646.34	646.16	645.97	645.83
SOUTH BRIDGE							
"A"	646.20	646.04	645.87	645.63	645.38	645.20	644.98
"B"	646.32	646.13	645.99	645.72	645.50	645.27	645.10
"C"	646.50	646.35	646.18	645.95	645.69	645.50	645.30
"D"	646.54	646.39	646.22	645.99	645.74	645.55	645.35
"E"	646.42	646.24	646.11	645.85	645.63	645.41	645.25

DEAD LOAD DEFLECTIONS		
BEAMS	℄ SPANS #1 or #3	℄ SPAN #2
"A" thru "E"	1/16"	5/16"

NOTES:

In order to meet established roadway grades, to assure the construction of the required thickness of deck slabs, and to assure the proper location of the reinforcing steel in the deck slabs, the contractor shall obtain the elevations of the top of existing steel beams after the complete removal of existing deck slab at the locations shown in the table for the final pavement elevations, and compute the deck thickness over existing beams. If the computed deck thickness is found to be less than minimum thickness required, the top of final pavement elevations shall be adjusted as directed by the Engineer. The Contractor shall also compute the deck screed elevations, utilizing the dead load deflections.

Payment for the above mentioned work shall be included with the lump sum price for Item SP 623. The quantity of deck concrete to be paid shall be based upon 9 1/4" thick concrete outside the haunch area and 10" thick concrete over existing and new beams at the haunches.

Where a shape or plate is labeled "CVN" the material shall meet minimum notch toughness requirements in accordance with 711.01.

No shop camber required, place beam with the natural camber up.

DETAIL "A"

END DIAPHRAGMS AT ABUTMENTS

High strength bolts shall be 7/8" ϕ dia. A325.

DETAIL "B"

INTERIOR DIAPHRAGMS

STRINGER END DETAILS

(Typical for all stringers, new & existing)

7/12

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE

ERIKSSON ENGINEERING LIMITED

1525 Bonaparte Avenue • Columbus, Ohio 43212 • 614/488-0731

STRUCTURE No. 15

OVER WAGGONER ROAD

SUPERSTRUCTURE DETAILS

SANDUSKY COUNTY STA. 75+ 72.82

Designed	Drawn	Checked	Reviewed	Date	Revised
V.K.		O.E.		3.8.25	

EXP. BEARING DETAILS

(At Abut. shown, at Pier No. 2 similar)

FIX. BEARING DETAILS

(At Pier No. 1)

FIELD SPLICE DETAILS

SCUPPER DETAILS

The support angles and support bolts are included with scupper for payment.

Scuppers including support angles, shall be galvanized in accordance with 711.

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE

ERIKSSON ENGINEERING LIMITED

1563 Dublin Avenue · Columbus Ohio 43212 · 614/488-0731

STRUCTURE No. 15
OVER WAGGONER ROAD
SUPERSTRUCTURE
DETAILS

SANDUSKY COUNTY STA. 75+ 72.82

Designed	Drawn	Checked	Reviewed	Date	Revised
V.K.		C.E.			

6/12

TYPICAL PLAN OF STRUCTURAL EXPANSION JOINT

NOTES:

STEEL EXTRUSION: Wabo-Acme Type M, D.S. Brown's Type SS-C, General Tire Profile C or approved equal.

CONTINUOUS STRIP SEAL shall be as manufactured by Wabo-Acme, D.S. Brown, General Tire or approved equal.

STUD ANCHORS shall be low carbon steel ASTM A-108.

WELDING: All welding shall conform with A.W.S. and AASHTO specifications for welded highway and railway bridges.

EXISTING DECK JOINTS, above end diaphragm (L 18x42.7) shall be removed and replaced in accordance with details shown.

Contractor shall verify all dimensions prior to fabrication.

SECTION A-A

SECTION B-B

SECTION C-C

STRIP SEAL SIZE	STRIP SEAL JOINT OPENING INSTALLATION CHART TEMPERATURE °F						
	30	40	50	60	70	80	90
4"	2 7/8"	2 5/8"	2 3/8"	2 1/4"	2"	1 3/4"	1 1/2"

Minimum joint width at time of installation shall be 1 1/2" at temperatures of 90°F. and above.

TABLE "A"

9/12

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE

ERIKSSON ENGINEERING LIMITED
1523 Chesapeake Avenue • Columbus, Ohio 43212 • 614/486-0721

STRUCTURE No. 15
OVER WAGGONER ROAD
STRUCTURAL EXPANSION JOINTS
SANDUSKY COUNTY STA. 75+72.82

Designed	Drawn	Checked	Reviewed	Date	Revised
V.K.		CEE		3-8 8-5	

TRANSVERSE SECTION NORTH BRIDGE

(Transverse Section for South Bridge - Rotating by 180°)

NOTES:

A typical haunch width of 9" shall be used for computing quantity of concrete. However the haunch width may vary between 6" and 12" provided that the slope shall not be more than 1:4 for a haunch less than 9" in width.

The deflection joints in the barrier curb may be either ¼" gray sponge rubber or ¼" gray cellular polyvinyl chloride (PVC) sponge. Either material shall meet the requirements of AASHTO M-153, Type I, except the density of the PVC sponge shall not be less than 20 lbs. per cu. ft.

Include with Item SP511A Class S Concrete, superstructure for payment.

All reinforcing steel shown shall be epoxy coated.

Lap # 4 bars 1'-3" & #5 bars 1'-9" min.

DECK PLAN - TYPICAL FOR NORTH & SOUTH BRIDGES

DEFLECTION JOINT

SECTION C-C

10/12

ERIKSSON ENGINEERING LIMITED
1623 Gheisgeiser Avenue · Columbus, Ohio 43212 · 614/488 0791

STRUCTURE No. 15
OVER WAGGONER ROAD
DECK DETAILS

SANDUSKY COUNTY STA. 75+72.82

Designed	Drawn	Checked	Reviewed	Date	Revised
V.K.	D.C.G.	D.E.		9.8.87	

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE

REINFORCING STEEL LIST

83
84

BENDING DIAGRAMS

Dimensions shown are out to out.

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	REMARKS
			WEST ABUTMENT						
A501	10	12-0	125	2	3-8	4-3½	4-3½		
A502	6	6-6	41	5					
A503	18	6-4	119	4	4-5	1-11	0-0		
A505	2	13-0	27	5					
A506	6	16-7 to 18-3	78	2	1-2	7-10 to 3-8	7-10 to 3-8		Vary "B & C" by 10"
A507	4	5-0 to 7-6	26	5					2 sets of 2, vary by 2'-6"
A508	8	12-0	75	5					
A509	5	11-3	59	7	2-8	2-8			
A600	20	2-6	75	5					Dowels
A601	8	6-4	76	5					Bend in field to fit
A602	6	11-7	104	2	0-11	5-6	5-6		
			805	Lbs.					
A401	88	11-1	981	5					
A402	8	10-6 to 4-6	40	5					2 sets of 4, vary by 2'-0"
A504	6	3-6	22	1	1-7½	2-0			
A510	29	20-0	605	5					
A511	29	26-6	802	5					
A512	12	4-0	50	5					
A513	9	5-0	47	8					
A514	9	5-3	49	9					
A515	10	2-0	21	1	0-7½	1-6			
A516	16	2-2	36	5					
A517	12	9-10	123	5					
A518	12	11-0	138	5					
A519	24	4-0	100	5					
A603	73	11-1	1,249	5					
A604	14	10-6 to 4-6	158	5					2 sets of 7, vary by 12"
A605	2	3-0	9	10					
A606	2	2-11	9	10					
A607	2	2-10	9	10					
A608	2	2-9	8	10					
A609	2	2-8	8	10					
A610	16	2-8	64	6	2-0				
A611	6	3-6	32	2	0-4	1-9	1-9		
			3,860	Lbs.	epoxy	coated			
			EAST ABUTMENT						
A501	10	12-0	125	2	3-8	4-3½	4-3½		
A502	6	6-6	41	5					
A503	18	6-4	119	4	4-5	1-11	0-8		
A505	2	13-0	27	5					
A506	6	16-7 to 18-3	78	2	1-2	7-10 to 5-8	7-10 to 5-8		Vary "B & C" by 10"
A507	4	5-0 to 7-6	26	5					2 sets of 2, vary by 2'-6"
A508	8	12-0	75	5					
A509	5	11-3	59	7	2-8	2-8			
A600	20	2-6	75	5					Dowels
A601	8	6-4	76	5					Bend in field to fit
A602	6	11-7	104	2	0-11	5-6	5-6		
			805	Lbs.					
A401	88	11-1	981	5					
A402	8	10-6 to 4-6	40	5					2 sets of 4, vary by 2'-0"
A504	6	3-6	22	1	1-7½	2-0			
A510	29	20-0	605	5					
A511	29	26-6	802	5					
A512	12	4-0	50	5					
A513	9	5-0	47	8					
A514	9	5-3	49	9					
A515	10	2-0	21	1	0-7½	1-6			
A516	16	2-2	36	5					
A517	12	10-0	125	5					
A518	12	10-10	136	5					
A519	24	4-0	100	5					

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	REMARKS
A603	73	11-1	1,249	5					
A604	14	10-6 to 4-6	158	5					2 sets of 7, vary by 12"
A605	2	3-0	9	10					
A606	2	2-11	9	10					
A607	2	2-10	9	10					
A608	2	2-9	8	10					
A609	2	2-8	8	10					
A610	16	2-8	64	6	2-0				
A611	6	4-0	36	2	0-8	1-10	1-10		
			3,864	Lbs.	epoxy	coated			
			PIER NO. 1						
P501	6	5-8	35	5					
P502	4	8-0	33	1	5-8	2-5½			
P503	6	11-3	70	7	2-8	2-8			
P601	6	5-10	35	5					
P801	6	0-0	139	5	6-6				
P802	4	5-0	32	6	1-11				
P901	12	7-0	286	1	0-9½	6-6			
P902	12	25-6	1,040	5					
Spiral			427						
			2,115	Lbs.					
			PIER NO. 2						
P501	6	5-8	35	5					
P502	4	8-0	33	1	5-8	2-5½			
P503	6	11-3	70	7	2-8	2-8			
P601	6	5-10	35	5					
P801	6	8-8	139	5	6-6				
P802	4	5-0	32	6	1-11				
P901	12	7-0	286	1	0-9½	6-6			
P902	12	25-2	1,027	5					
Spiral			421						
			2,096	Lbs.					
			SUPERSTRUCTURE						
S401	188	30-0	3,768	5					
S402	104	26-6	1,841	6	26-0				
S403	106	21-6	1,322	5					
S404	8	22-0	118	5					
S501	182	30-0	6,008	5					
S502	48	25-0	1,151	5					
S503	216	40-0	9,095	5					
S504	68	5-6 to 36-6	4,418	5					
S505	184	5-0	920	6					
S506	184	5-5	1,008	9					
S507	32	18-6	577	5					
S508	48	5-0	250	5					
S509	24	15-5	336	5					
S601	218	40-0	13,091	5					
S602	68	3-6 to 36-6	2,043	5					
S603	8	23-3	279	5					
			43,411	Lbs.	epoxy	coated			

Refer to C.M.S. Sections 106.03, 700, 709.01 through 709.05 and 709.08. Sufficient additional reinforcing steel shall be provided for sampling. Random samples shall be replaced in the structures by the additional steel, spliced in accordance with 307.00.

MARK	NO.	LENGTH (HEIGHT)	WEIGHT	SHAPE
SP401	1	22.95	427	Bt.
SP402	1	22.57	421	Bt.

Spirals - core diam. 32" o/o
- pitch 4½" o/o
- other details in accordance with C.M.S.I. standard practice.

11/12

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE

ERIKSSON ENGINEERING LIMITED

STRUCTURE No. 15

OVER WAGGONER ROAD

REINF. STEEL LIST

NORTH BRIDGE

SANDUSKY COUNTY STA. 75+72.82

Designed	Drawn	Checked	Reviewed	Date	Revised
V.K.	G.M.			3-8-85	

REINFORCING STEEL LIST

64
84

BENDING DIAGRAMS

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	REMARKS
			WEST ABUTMENT						
A501	10	12-0	125	2	5-8	4-3½	4-3½		
A502	24	6-4	192	5					
A503	10	11-0	115	2	2-8	4-3½	4-3½		Bend in field to fit
A504	12	12-11 to 10-8	146	2	1-2	6-0½	6-0 to 4-9		2 sets of 6, vary B & C by 3
A505	2	13-0	27	4	11-0	2-0	0-6		
A506	2	7-6	15	5					
A507	12	12-0	150	5					
A600	20	2-6	75	3					Dowels
A601	8	6-4	76	5					Bend in field
A602	6	11-7	104	2	0-11	5-6	5-6		
			1025	Lbs.					
A401	38	12-5	315	5					
A402	8	11-0 to 5-0	43	5					2 sets of 4, vary by 2'-0"
A508	4	13-8	57	5					
A509	4	14-3	59	5					
A510	31	20-0	647	5					
A511	31	26-6	857	5					
A512	14	4-6	66	5					
A513	21	5-0	110	5					
A514	21	5-3	115	9					
A515	8	13-8	114	3					
A516	8	14-3	119	5					
A603	75	12-5	1,399	5					
A604	8	11-0 to 5-0	96	5					2 sets of 4, vary by 2'-0"
			3,997	Lbs.	epoxy	coated			
			EAST ABUTMENT						
A501	10	12-6	130	2	3-8	4-6½	4-6½		
A502	7	6-6	47	5					
A603	21	6-4	139	4	4-5	1-11	0-8		
A505	2	13-0	27	5					
A506	6	18-11 to 11-5	95	2	1-2	9-0½ to 5-3	9-0 to 5-3		Vary "B & C" by 9"
A507	6	5-0 to 10-0	47	5					3 sets of 2, vary by 2'-6"
A508	8	12-0	100	5					
A509	5	13-10	72	7	2-8	3-11			
A600	20	2-6	75	3					Dowels
A601	8	6-4	76	3					Bend in field
A602	6	11-7	104	2	0-11	5-6	5-6		
			912	Lbs.					
A401	38	11-1	281	5					
A402	3	10-6 to 4-6	40	5					2 sets of 4, vary by 2'-0"
A504	6	3-6	22	1	1-7½	2-0			
A510	29	20-0	605	5					
A511	29	26-6	802	5					
A512	12	4-0	30	5					
A513	9	5-0	47	5					
A514	9	5-3	49	9					
A515	10	2-0	21	1	0-7½	1-6			
A516	16	2-2	36	5					
A517	12	9-10	123	3					
A518	12	11-0	138	3					
A519	24	4-0	100	5					
A603	75	11-1	1,249	5					
A604	14	10-6 to 4-6	138	3					2 sets of 7, vary by 12"
A605	2	3-0	9	10					
A606	2	2-11	9	10					
A607	2	2-10	9	10					
A608	2	2-9	8	10					
A609	2	2-8	8	10					
A610	16	2-8	64	6	2-0				
A611	6	4-0	36	2	0-6	1-10	1-10		
			3,364	Lbs.	epoxy	coated			

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	REMARKS
			PIER NO. 1						
P501	6	5-8	35	5					
P502	4	8-0	33	1	5-8	2-5½			
P503	8	11-3	70	7	2-8	2-8			
P601	6	5-10	53	5					
P801	6	8-8	139	5	6-6				
P802	4	3-0	32	6	1-11				
P901	12	7-0	286	1	0-9½	6-6			
P902	12	24-10	1013	5					
Spiral			415						
			2,076	Lbs.					
			PIER NO. 2						
P501	6	5-8	35	5					
P502	4	8-0	33	1	5-8	2-5½			
P503	6	11-3	70	7	2-8	2-8			
P601	6	5-10	53	5					
P801	6	8-8	139	5	6-6				
P802	4	3-0	32	6	1-11				
P901	12	7-0	286	1	0-9½	6-6			
P902	12	24-4	993	5					
Spiral			406						
			2,097	Lbs.					
			SUPERSTRUCTURE						
S401	188	50-0	3,768	5					
S402	104	26-6	1,841	6	26-0				
S403	106	21-6	1,522	5					
S404	5	22-0	110	5					
S501	142	50-0	2,008	5					
S502	48	23-0	1,151	5					
S503	218	40-0	9,095	5					
S504	68	3-6 to 36-6	1,418	5					2 sets of 34, vary by 12"
S505	184	5-0	960	5					
S506	184	5-3	1,008	9					
S507	32	15-6	517	5					
S508	48	5-0	250	5					
S509	24	15-5	386	5					
S601	218	40-0	18,097	5					
S602	68	3-6 to 36-6	2,043	5					
S603	8	23-3	279	5					
			43,411	Lbs.	epoxy	coated			

MARK	NO.	LENGTH (HEIGHT)	WEIGHT	SHAPE
SP402	1	22.24	415	Bt.
SP403	1	21.75	406	Bt.

Spirals - core diam. 32" o/o
- pitch 4 1/2" o/o
- other details in accordance with C.R.C. I Standard practice.

12/12

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE

ERIKSSON ENGINEERING LIMITED

STRUCTURE No. 15
OVER WAGGONER ROAD
REINF. STEEL LIST
SOUTH BRIDGE

SANDUSKY COUNTY STA. 75+72.82

Designed	Drawn	Checked	Reviewed	Date	Revised
V.K.	G.H.				