

STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

# HUR-20-10.76

CITY OF NORWALK  
RIDGEFIELD TOWNSHIP  
NORWALK TOWNSHIP  
HURON COUNTY

**PROJECT DESCRIPTION**

THIS PROJECT WILL INCLUDE RESURFACING MAINLINE PAVEMENT, PAVED SHOULDERS, AND RAMPS; PAVEMENT REPAIRS; FULL DEPTH PAVING OF ONE RAMP; MINOR STRUCTURE WORK, AND PAVEMENT MARKINGS.

**EARTH DISTURBED AREAS**

PROJECT EARTH DISTURBED AREA: N/A  
(MAINTENANCE PROJECT)  
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: N/A  
(MAINTENANCE PROJECT)  
NOTICE OF INTENT EARTH DISTURBED AREA: N/A  
(MAINTENANCE PROJECT)

**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 IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

**2019 SPECIFICATIONS**

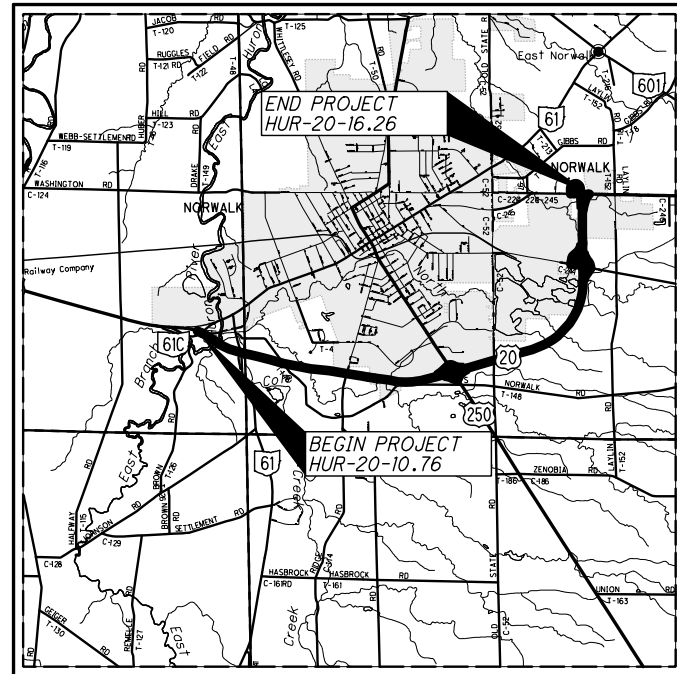
THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDE AS INDICATED ON SHEET 12.

APPROVED:   
DATE: 07/16/19 DISTRICT DEPUTY DIRECTOR

APPROVED:   
DATE: 3/17/20 DIRECTOR, DEPARTMENT OF TRANSPORTATION

PLANS PREPARED BY:  
 OHIO DEPARTMENT OF TRANSPORTATION  
DISTRICT THREE ENGINEERING



LOCATION MAP

LATITUDE: 41° 13' 20" LONGITUDE: 82° 35' 55"



PORTION TO BE IMPROVED	—————	—————
INTERSTATE HIGHWAY	—————	—————
FEDERAL ROUTES	—————	—————
STATE ROUTES	—————	—————
COUNTY & TOWNSHIP ROADS	—————	—————
OTHER ROADS	—————	—————

**DESIGN DESIGNATION**

SEE SHEET 3

**DESIGN EXCEPTIONS**

NONE REQUIRED

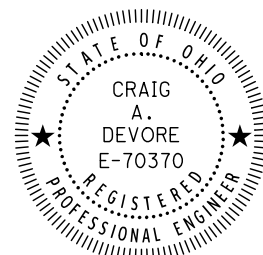

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**UNDERGROUND UTILITIES**  
Contact Two Working Days  
Before You Dig



OHIO811, 8-1-1, or 1-800-362-2764  
(Non-members must be called directly)

ENGINEERS SEAL	STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	
 SIGNED:  DATE: 2019.0916	AS-1-15	7/17/15	MT-95.30	7/19/19	MT-101.90	7/21/17	800-2019	1/17/20
	AS-2-15	1/18/19	MT-95.45	1/17/20	MT-102.20	4/19/19	807	4/17/20
			MT-95.50	7/21/17	MT-102.30	10/16/15	832	10/18/19
	BP-2.1	7/17/15	MT-96.11	1/17/21	MT-104.10	10/16/15	843	10/19/18
	BP-2.2	7/18/08	MT-96.20	7/15/16	MT-105.10	1/17/20	850	4/17/20
	BP-8.2	1/18/19	MT-96.26	1/18/19				
	BP-3.1	1/17/20	MT-98.10	1/17/20	TC-42.10	10/18/13		
	BP-3.2	1/18/19	MT-98.11	1/17/20	TC-42.20	10/18/13		
			MT-98.20	4/19/19	TC-61.30	7/19/19		
	DM-4.3	1/15/16	MT-98.22	1/17/20	TC-64.10	1/17/20		
	DM-4.4	1/15/16	MT-98.28	1/17/20	TC-65.10	1/17/14		
			MT-98.29	1/17/20	TC-65.11	7/21/17		
			MT-99.20	4/19/19	TC-72.20	7/20/18		
			MT-99.30	1/17/20				
			MT-99.50	1/17/20				
			MT-101.60	1/17/20				

FEDERAL PROJECT NO. E040756  
PID NO. 77529  
CONSTRUCTION PROJECT NO. 1  
RAILROAD INVOLVEMENT WHEELING & LAKE ERIE  
HUR-20-10.76  
1/65

HUR - US 20-10.76  
200320 PID - 77529  
Dist 3 6/4/2020  
Contract Proposal Available @  
www.contracts.dot.state.oh.us/home

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SHEET NUM.									PART.			ALT (X)	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED MAE CHECKED CAD	
8	9	10	11	18	19	21	22	31	01/NHS/PV	02/NHS/BR										
						960			960				202	23000	960	SY	<b>ROADWAY</b>			
							20		20				202	30700	20	FT	CONCRETE BARRIER REMOVED			
							288		288				202	38000	288	FT	GUARDRAIL REMOVED			
							2		2				202	42000	2	EACH	ANCHOR ASSEMBLY REMOVED, TYPE A			
							5		5				202	42040	5	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T			
								1	1				202	47000	1	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED			
						160			160				203	10000	160	CY	EXCAVATION			
							181		181				203	20001	181	CY	EMBANKMENT, AS PER PLAN		7	
						960			960				204	10000	960	SY	SUBGRADE COMPACTION			
							31		31				209	15001	31	STA	RESHAPING UNDER GUARDRAIL, AS PER PLAN		7	
			24.47			0.34			24.81				209	60500	24.81	MILE	LINEAR GRADING			
							300		300				606	13000	300	FT	GUARDRAIL, TYPE 5			
							889		889				606	16500	889	FT	GUARDRAIL REBUILT, TYPE 5			
							213		213				606	16600	213	FT	GUARDRAIL REBUILT, BARRIER DESIGN, TYPE 5			
							2		2				606	26100	2	EACH	ANCHOR ASSEMBLY, TYPE E (MASH 2016)			
							6		6				606	26500	6	EACH	ANCHOR ASSEMBLY, TYPE T			
							1		1				606	35000	1	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 1			
							1		1				606	35100	1	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 2			
							1		1				606	35110	1	EACH	BRIDGE TERMINAL ASSEMBLY REBUILT, TYPE 2			
							4		4				606	60070	4	EACH	IMPACT ATTENUATOR REBUILT, TYPE 1 (BIDIRECTIONAL), AS PER PLAN		7	
																	<b>EROSION CONTROL</b>			
									10,000				832	30000	10,000	EACH	EROSION CONTROL			
																	<b>PAVEMENT</b>			
1,700									1,700				251	01030	1,700	CY	PARTIAL DEPTH PAVEMENT REPAIR (442)			
			2,025	262,225		1,408			265,658				254	01000	265,658	SY	PAVEMENT PLANING, ASPHALT CONCRETE 1.5"			
				2,535					2,535				254	01000	2,535	SY	PAVEMENT PLANING, ASPHALT CONCRETE VARIABLE DEPTH (1.5" - 2.5")			
9,800									9,800				255	10160	9,800	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS			
58,000									58,000				255	20000	58,000	FT	FULL DEPTH PAVEMENT SAWING			
							287		287				304	20000	287	CY	AGGREGATE BASE 10.75"			
				20,876					20,876				407	20000	20,876	GAL	NON-TRACKING TACK COAT			
				11,485		158			11,643				408	10001	11,643	GAL	PRIME COAT, AS PER PLAN		8	
				10,700					10,700				442	10300	10,700	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447) 1.5"			
						960			960				452	14010	960	SY	10" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P			
				1,617		23			1,640				617	10100	1,640	CY	COMPACTED AGGREGATE			
				28,715		395			29,110				617	20000	29,110	SY	SHOULDER PREPARATION			
				110,049					110,049				618	40800	110,049	FT	RUMBLE STRIPES, EDGE LINE (ASPHALT CONCRETE)			
						964			964				621	00100	964	EACH	<b>TRAFFIC CONTROL</b> RPM			
						964			964				621	54000	964	EACH	RAISED PAVEMENT MARKER REMOVED			
							47		47				626	00110	47	EACH	BARRIER REFLECTOR, TYPE 2 (UNIDIRECTIONAL)			
80									80				630	06500	80	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W6X9			
4									4				630	09000	4	EACH	BREAKAWAY STRUCTURAL BEAM CONNECTION			
									4				630	84500	4	EACH	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION			
4									2				630	86321	2	EACH	REMOVAL OF STRUCTURE MOUNTED SIGN AND REERECTION, AS PER PLAN		8	
						345			345				644	00500	345	FT	STOP LINE			
						451			451				644	00720	451	FT	CHEVRON MARKING			
						2			2				SPECIAL	64440000	2	EACH	AIR SPEED ZONE MARKING		8	
																	<b>TRAFFIC CONTROL ALTERNATES</b>			
																	ALTERNATE 1 - (644 - THERMO & 646 - EPOXY)			
						12.38			12.38			X	644	00104	12.38	MILE	EDGE LINE, 6" (WHITE)			
						12.41			12.41			X	644	00104	12.41	MILE	EDGE LINE, 6" (YELLOW)			
						10.67			10.67			X	644	00204	10.67	MILE	LANE LINE, 6"			
						3,251			3,251			X	644	00404	3,251	FT	CHANNELIZING LINE, 12"			
						3,899			3,899			X	644	01510	3,899	FT	DOTTED LINE, 6"			
						0.38			0.38			X	646	10010	0.38	MILE	EDGE LINE, 6" (WHITE)			
						0.38			0.38			X	646	10010	0.38	MILE	EDGE LINE, 6" (YELLOW)			
						0.39			0.39			X	646	10110	0.39	MILE	LANE LINE, 6"			
						137			137			X	646	10310	137	FT	CHANNELIZING LINE, 12"			
						164			164				646	20504	164	FT	DOTTED LINE, 6"			

GENERAL SUMMARY

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SHEET NUM.									PART.			ALT	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE	CALCULATED MAE CHECKED CAD
8	9	10	11	18	19	21	22	31	01/NHS/PV	02/NHS/BR	(X)	EXT	TOTAL		SHEET NO.				
					12.38				12.38		X	807	14010	12.38	MILE	ALTERNATE 2 - (R-WR THERMO & EPOXY)			
					12.41				12.41		X	807	14010	12.41	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6" (WHITE)			
					10.67				10.67		X	807	14110	10.67	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6" (YELLOW)			
					3,251				3,251		X	807	14310	3,251	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6"			
					3,899				3,899		X	807	14410	3,899	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CHANNELIZING LINE, 12"			
																WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 6"			
					0.38				0.38		X	807	12010	0.38	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6" (WHITE)			
					0.38				0.38		X	807	12010	0.38	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6" (YELLOW)			
					0.39				0.39		X	807	12110	0.39	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 6"			
					137				137		X	807	12310	137	FT	WET REFLECTIVE EPOXY PAVEMENT MARKING, CHANNELIZING LINE, 12"			
					164				164		X	807	12410	164	FT	WET REFLECTIVE EPOXY PAVEMENT MARKING, DOTTED LINE, 6"			
					37.2				37.2		X	850	10010	37.2	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)			
					3,251				3,251		X	850	10130	3,251	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)			
					1.81				1.81		X	850	20010	1.81	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)			
					137				137		X	850	20130	137	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (CONCRETE)			
																ALTERNATE 3 - (642 - TRAFFIC PAINT)			
					12.76				12.76		X	642	00104	12.76	MILE	EDGE LINE, 6", TYPE 1 (WHITE)			
					12.79				12.79		X	642	00104	12.79	MILE	EDGE LINE, 6", TYPE 1 (YELLOW)			
					11.06				11.06		X	642	00204	11.06	MILE	LANE LINE, 6", TYPE 1			
					3,388				3,388		X	642	00404	3,388	FT	CHANNELIZING LINE, 12", TYPE 1			
					4,063				4,063		X	642	01510	4,063	FT	DOTTED LINE, 6", TYPE 1			
																<b>MAINTENANCE OF TRAFFIC</b>			
			500						500			614	11111	500	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE, AS PER PLAN		11	
			12							12		614	12336	12	EACH	WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)			
			LS						LS			614	12420	LS		DETOUR SIGNING			
	24								24			614	12460	24	EACH	WORK ZONE MARKING SIGN			
		18							18			614	12484	18	EACH	WORK ZONE INCREASED PENALTIES SIGN			
	25		90						115			614	13000	115	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC			
			122							122		614	13310	122	EACH	BARRIER REFLECTOR, TYPE 1(ONE-WAY)			
			122							122		614	13350	122	EACH	OBJECT MARKER, ONE WAY			
		18							18			614	18601	18	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN		10	
					22.13				22.13			614	20560	22.13	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT			
					51.1				51.1			614	22360	51.1	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT			
					6,776				6,776			614	23690	6,776	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT			
					690				690			614	26610	690	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT			
			5,184						5,184			622	41100	5,184	FT	PORTABLE BARRIER, UNANCHORED			
			864						864			622	41110	864	FT	PORTABLE BARRIER, ANCHORED			
	48								48			808	18700	48	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY			
																<b>STRUCTURE REPAIR (HUR-20-1076 L)</b>			
								134	134			202	22901	134	SY	APPROACH SLAB REMOVED, AS PER PLAN		29	
								83	83			202	23000	83	SY	PAVEMENT REMOVED			
								222	222			202	23500	222	SY	WEARING COURSE REMOVED			
								301	301			202	98200	301	FT	REMOVAL MISC.: DECK OVERHANG		30	
								37	37			203	10000	37	CY	EXCAVATION			
								222	222			204	10000	222	SY	SUBGRADE COMPACTION			
								37	37			304	20000	37	CY	AGGREGATE BASE			
								314	314			509	10001	314	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN		30	
								100	100			509	20000	100	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL			
								301	301			511	81100	301	FT	CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG		30	
								208	208			512	10100	208	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)			
								765	765			512	73500	765	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN			
								163	163			512	74000	163	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES			
								270	270			SPECIAL	51900100	270	SF	COMPOSITE FIBER WRAP SYSTEM		29	
								55	55			519	10000	55	SY	PATCHING CONCRETE BRIDGE DECK OVERLAY WITH MICRO-SILICA MODIFIED CONCRETE			
								55	55			519	11100	55	SF	PATCHING CONCRETE STRUCTURE			
								222	222			526	25001	222	SY	REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN		29	

GENERAL SUMMARY

HUR - 20 - 10.76

SHEET NUM.									PART.			ALT (X)	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
8	9	10	11	18	19	21	22	31	01/NHS/PV	02/NHS/BR								
								134		134			202	22901	134	SY	<b>STRUCTURE REPAIR (HUR-20-1076 R)</b>	
								83		83			202	23000	83	SY	APPROACH SLAB REMOVED, AS PER PLAN	29
								222		222			202	23500	222	SY	PAVEMENT REMOVED	
								321		321			202	98200	321	FT	WEARING COURSE REMOVED	
								37		37			203	10000	37	CY	REMOVAL MISC.: DECK OVERHANG	30
																	EXCAVATION	
								222		222			204	10000	222	SY	SUBGRADE COMPACTION	
								37		37			304	20000	37	CY	AGGREGATE BASE	
								335		335			509	10001	335	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN	30
								100		100			509	20000	100	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL	
								321		321			511	81100	321	FT	CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG	30
								212		212			512	10100	212	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
								765		765			512	73500	765	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
								164		164			512	74000	164	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	
								270		270		SPECIAL	51900100	270	SF	COMPOSITE FIBER WRAP SYSTEM	29	
								55		55			519	10000	55	SY	PATCHING CONCRETE BRIDGE DECK OVERLAY WITH MICRO-SILICA MODIFIED CONCRETE	
								100		100			519	11100	100	SF	PATCHING CONCRETE STRUCTURE	
								222		222			526	25001	222	SY	REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN	29
																	<b>STRUCTURE REPAIR (HUR-20-1097 L)</b>	
								183		183			202	22901	183	SY	APPROACH SLAB REMOVED, AS PER PLAN	29
								122		122			202	32600	122	FT	GUTTER REMOVED	
								293		293			202	98200	293	FT	REMOVAL MISC.: DECK OVERHANG	30
								31		31			203	10000	31	CY	EXCAVATION	
								183		183			204	10000	183	SY	SUBGRADE COMPACTION	
								31		31			304	20000	31	CY	AGGREGATE BASE	
								306		306			509	10001	306	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN	30
								100		100			509	20000	100	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL	
																	<b>STRUCTURE REPAIR (HUR-20-1097 L)</b>	
								293		293			511	81100	293	FT	CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG	30
								229		229			512	10100	229	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
								828		828			512	73500	828	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
								186		186			512	74000	186	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	
								154		154			519	10000	154	SY	PATCHING CONCRETE BRIDGE DECK OVERLAY WITH MICRO-SILICA MODIFIED CONCRETE	
								79		79			519	11100	79	SF	PATCHING CONCRETE STRUCTURE	
								183		183			526	25001	183	SY	REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN	29
								54		54			601	27000	54	CY	DUMPED ROCK FILL, TYPE C	
																	<b>STRUCTURE REPAIR (HUR-20-1097 R)</b>	
								183		183			202	22901	183	SY	APPROACH SLAB REMOVED, AS PER PLAN	29
								122		122			202	32600	122	FT	GUTTER REMOVED	
								428		428			202	98200	428	FT	REMOVAL MISC.: DECK OVERHANG	30
								31		31			203	10000	31	CY	EXCAVATION	
								183		183			204	10000	183	SY	SUBGRADE COMPACTION	
								31		31			304	20000	31	CY	AGGREGATE BASE	
								446		446			509	10001	446	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN	30
								100		100			509	20000	100	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL	
								428		428			511	81100	428	FT	CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG	30
								249		249			512	10100	249	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
								828		828			512	73500	828	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
								186		186			512	74000	186	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	
								119		119			519	10000	119	SY	PATCHING CONCRETE BRIDGE DECK OVERLAY WITH MICRO-SILICA MODIFIED CONCRETE	
								69		69			519	11100	69	SF	PATCHING CONCRETE STRUCTURE	
								183		183			526	25001	183	SY	REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN	29
								54		54			601	27000	54	CY	DUMPED ROCK FILL, TYPE C	

GENERAL SUMMARY

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SHEET NUM.									PART.			ALT (X)	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
8	9	10	11	18	19	21	22	31	01/NHS/PV	02/NHS/BR								
								183		183			202	22901	183	SY	<b>STRUCTURE REPAIR (HUR-20-1123 L)</b>	29
								183		183			202	23500	183	SY	APPROACH SLAB REMOVED, AS PER PLAN	
								80		80			202	32600	80	FT	WEARING COURSE REMOVED	
								357		357			202	98200	357	FT	GUTTER REMOVED	30
								31		31			203	10000	31	CY	REMOVAL MISC.: DECK OVERHANG	
																	EXCAVATION	
								183		183			204	10000	183	SY	SUBGRADE COMPACTION	
								31		31			304	20000	31	CY	AGGREGATE BASE	
								372		372			509	10001	372	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN	30
								100		100			509	20000	100	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL	
								357		357			511	81100	357	FT	CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG	30
								309		309			512	10100	309	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
								1,045		1,045			512	73500	1,045	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
								256		256			512	74000	256	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	
								240		240		SPECIAL	51900100	240	SF	COMPOSITE FIBER WRAP SYSTEM	29	
								159		159			519	10000	159	SY	PATCHING CONCRETE BRIDGE DECK OVERLAY WITH MICRO-SILICA MODIFIED CONCRETE	
								262		262			519	11100	262	SF	PATCHING CONCRETE STRUCTURE	
								183		183			526	25001	183	SY	REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN	29
								36		36			601	27000	36	CY	DUMPED ROCK FILL, TYPE C	
																	<b>STRUCTURE REPAIR (HUR-20-1123 R)</b>	
								183		183			202	22901	183	SY	APPROACH SLAB REMOVED, AS PER PLAN	29
								183		183			202	23500	183	SY	WEARING COURSE REMOVED	
								80		80			202	32600	80	FT	GUTTER REMOVED	
								513		513			202	98200	513	FT	REMOVAL MISC.: DECK OVERHANG	30
								31		31			203	10000	31	CY	EXCAVATION	
								183		183			204	10000	183	SY	SUBGRADE COMPACTION	
								31		31			304	20000	31	CY	AGGREGATE BASE	
								535		535			509	10001	535	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN	30
								100		100			509	20000	100	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL	
								513		513			511	81100	513	FT	CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG	30
								333		333			512	10100	333	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
								1,045		1,045			512	73500	1,045	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
																	<b>STRUCTURE REPAIR (HUR-20-1123 R)</b>	
								257		257			512	74000	257	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	
								240		240		SPECIAL	51900100	240	SF	COMPOSITE FIBER WRAP SYSTEM	29	
								235		235			519	10000	235	SY	PATCHING CONCRETE BRIDGE DECK OVERLAY WITH MICRO-SILICA MODIFIED CONCRETE	
								96		96			519	11100	96	SF	PATCHING CONCRETE STRUCTURE	
								183		183			526	25001	183	SY	REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN	29
								36		36			601	27000	36	CY	DUMPED ROCK FILL, TYPE C	
																	<b>STRUCTURE REPAIR (HUR-20-1170)</b>	
								704		704			202	98200	704	FT	REMOVAL MISC.: DECK OVERHANG	30
								734		734			509	10001	734	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN	30
								100		100			509	20000	100	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL	
								704		704			511	81100	704	FT	CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG	30
								104		104			512	10100	104	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
								744		744		SPECIAL	51900100	744	SF	COMPOSITE FIBER WRAP SYSTEM	29	
								402		402			601	20000	402	SY	CRUSHED AGGREGATE SLOPE PROTECTION	
																	<b>STRUCTURE REPAIR (HUR-20-1236)</b>	
								70		70			202	98200	70	FT	REMOVAL MISC.: JOINT SEAL	29
								396		396			202	98200	396	FT	REMOVAL MISC.: DECK OVERHANG	30
								151		151			254	01000	151	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.25"	
								5		5			442	20000	5	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448)	
								413		413			509	10001	413	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN	30
								100		100			509	20000	100	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL	
								396		396			511	81100	396	FT	CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG	30
								59		59			512	10100	59	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
								765		765			512	73500	765	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
								70		70			516	31000	70	FT	JOINT SEALER	

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SHEET NUM.									PART.			ALT (X)	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
8	9	10	11	18	19	21	22	31	01/NHS/PV	02/NHS/BR								
								516		516			SPECIAL	51900100	516	SF	COMPOSITE FIBER WRAP SYSTEM	29
								74		74			519	11100	74	SF	PATCHING CONCRETE STRUCTURE	
								23		23			SPECIAL	51912510	23	SY	PATCHING CONCRETE BRIDGE DECK (TYPE B)	29
																	<b>STRUCTURE REPAIR (HUR-250-492)</b>	
								456		456			202	98200	456	FT	REMOVAL MISC.: DECK OVERHANG	30
								476		476			509	10001	476	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN	30
								100		100			509	20000	100	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL	
								456		456			511	81100	456	FT	CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG	30
								68		68			512	10100	68	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
								480		480			SPECIAL	51900100	480	SF	COMPOSITE FIBER WRAP SYSTEM	29
																	<b>STRUCTURE REPAIR (HUR-20-1393)</b>	
								76		76			202	32600	76	FT	GUTTER REMOVED	
								66		66			202	98200	66	FT	REMOVAL MISC.: JOINT SEALER	29
								436		436			202	98200	436	FT	REMOVAL MISC.: DECK OVERHANG	30
								138		138			254	01000	138	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.25"	
								5		5			442	20000	5	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448)	
								455		455			509	10001	455	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN	30
								100		100			509	20000	100	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL	
								436		436			511	81100	436	FT	CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG	30
								65		65			512	10100	65	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
								764		764			512	73500	764	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
								66		66			516	31000	66	FT	JOINT SEALER	
								480		480			SPECIAL	51900100	480	SF	COMPOSITE FIBER WRAP SYSTEM	29
								59		59			519	11100	59	SF	PATCHING CONCRETE STRUCTURE	
								21		21			SPECIAL	51912510	21	SY	PATCHING CONCRETE BRIDGE DECK (TYPE B)	29
								34		34			601	27000	34	CY	DUMPED ROCK FILL, TYPE C	
																	<b>STRUCTURE REPAIR (HUR-20-1519 L)</b>	
								84		84			202	98200	84	FT	REMOVAL MISC.: JOINT SEALER	29
								1,167		1,167			512	10100	1,167	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
								703		703			512	73500	703	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
								1,167		1,167			512	74000	1,167	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	
								84		84			516	31000	84	FT	JOINT SEALER	
																	<b>STRUCTURE REPAIR (HUR-20-1519 L)</b>	
								92		92			519	10000	92	SY	PATCHING CONCRETE BRIDGE DECK OVERLAY WITH MICRO-SILICA MODIFIED CONCRETE	
								99		99			519	11100	99	SF	PATCHING CONCRETE STRUCTURE	
								27		27			SPECIAL	51912510	27	SY	PATCHING CONCRETE BRIDGE DECK (TYPE B)	29
																	<b>STRUCTURE REPAIR (HUR-20-1519 R)</b>	
								106		106			202	98200	106	FT	REMOVAL MISC.: JOINT SEALER	29
								1,167		1,167			512	10100	1,167	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
								879		879			512	73500	879	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
								1,167		1,167			512	74000	1,167	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	
								106		106			516	31000	106	FT	JOINT SEALER	
								86		86			519	10000	86	SY	PATCHING CONCRETE BRIDGE DECK OVERLAY WITH MICRO-SILICA MODIFIED CONCRETE	
								187		187			519	11100	187	SF	PATCHING CONCRETE STRUCTURE	
								33		33			SPECIAL	51912510	33	SY	PATCHING CONCRETE BRIDGE DECK (TYPE B)	29
																	<b>STRUCTURE REPAIR (HUR-18-1523)</b>	
								200		200			202	32600	200	FT	GUTTER REMOVED	
								406		406			202	98200	406	FT	REMOVAL MISC.: DECK OVERHANG	30
								423		423			509	10001	423	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN	30
								100		100			509	20000	100	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL	
								406		406			511	81100	406	FT	CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG	30
								60		60			512	10100	60	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
								588		588			SPECIAL	51900100	588	SF	COMPOSITE FIBER WRAP SYSTEM	29
								11		11			519	11100	11	SF	PATCHING CONCRETE STRUCTURE	
								89		89			601	27000	89	CY	DUMPED ROCK FILL, TYPE C	

GENERAL SUMMARY

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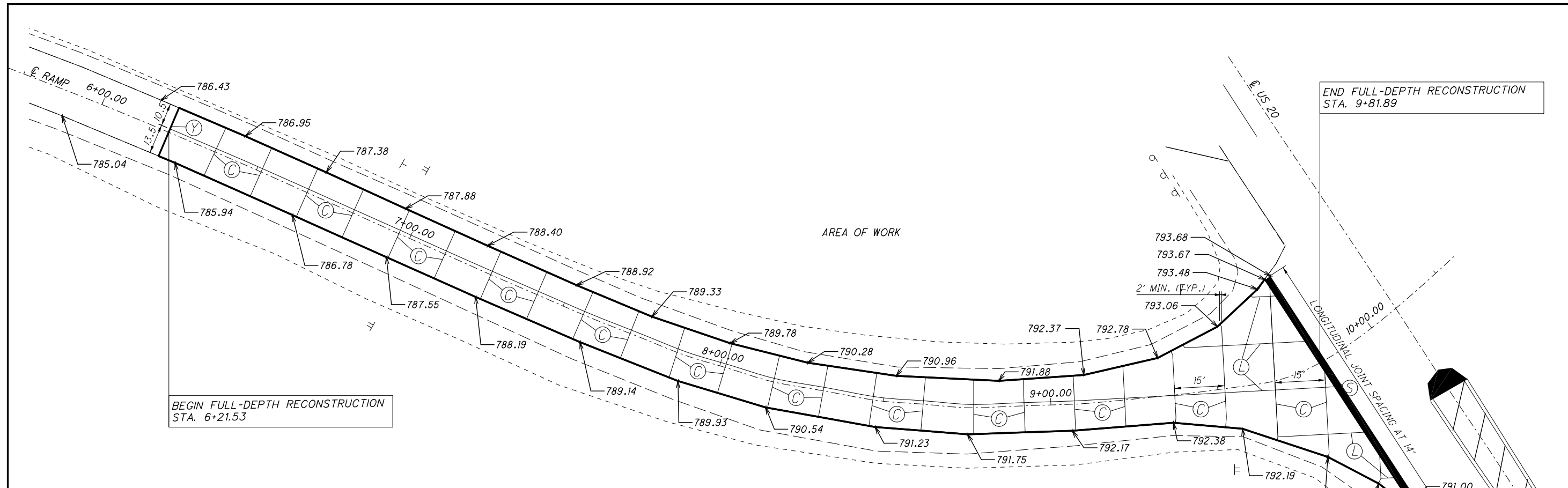
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SHEET NUM.									PART.			ALT (X)	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	
8	9	10	11	18	19	21	22	31	01/NHS/PV	02/NHS/BR									
								220		220				202	32600	220	FT	<b>STRUCTURE REPAIR (HUR-20-1619 LEFT)</b>	
								114		114				202	98200	114	FT	REMOVAL MISC.: JOINT SEALER	29
								290		290				202	98200	290	FT	REMOVAL MISC.: DECK OVERHANG	30
								302		302				509	10001	302	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN	30
								100		100				509	20000	100	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL	
								290		290				511	81100	290	FT	CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG	30
								355		355				512	10100	355	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
								1,270		1,270				512	73500	1,270	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
								312		312				512	74000	312	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	
								114		114				516	31000	114	FT	JOINT SEALER	
								384		384				SPECIAL	51900100	384	SF	COMPOSITE FIBER WRAP SYSTEM	29
								73		73				519	10000	73	SY	PATCHING CONCRETE BRIDGE DECK OVERLAY WITH MICRO-SILICA MODIFIED CONCRETE	
								80		80				519	11100	80	SF	PATCHING CONCRETE STRUCTURE	
								38		38				SPECIAL	51912510	38	SY	PATCHING CONCRETE BRIDGE DECK (TYPE B)	29
								98		98				601	27000	98	CY	DUMPED ROCK FILL, TYPE C	
																		<b>INCIDENTALS</b>	
								LS	LS					614	11000	LS		MAINTAINING TRAFFIC	
								7	2					619	16010	9	MNTH	FIELD OFFICE, TYPE B	
								LS	LS					623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
								LS	LS					624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

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PLAN VIEW  
RAMP FROM US 20 EB TO US 250 EB

LEFT EDGE OF PAVEMENT ELEVATIONS	
STATION	ELEVATION
6+15.65	786.43
6+42.35	786.95
6+68.59	787.38
6+94.56	787.88
7+21.30	788.40
7+51.18	788.92
7+75.59	789.33
8+00.92	789.78
8+25.93	790.28
8+53.32	790.96
8+84.94	791.88
9+10.46	792.37
9+32.97	792.78
9+52.84	793.06
9+67.75	793.48
9+81.89	793.67
9+83.82	793.68

RIGHT EDGE OF PAVEMENT ELEVATIONS	
STATION	ELEVATION
5+90.69	785.04
6+27.33	785.94
6+65.69	786.78
6+96.73	787.55
7+25.72	788.19
7+59.37	789.14
7+89.57	789.93
8+15.73	790.54
8+48.4	791.23
8+76.01	791.75
9+5.89	792.17
9+36.03	792.38
9+55.4	792.19
9+75.81	791.62
9+81.86	791.23
9+81.94	791.02
9+83.82	791.00

- LEGEND**
- (L) STANDARD LONGITUDINAL JOINT AS PER BP-2.1
  - (S) STANDARD LONGITUDINAL JOINT AS PER BP-2.1 WITHOUT TIE BARS
  - (C) CONTRACTION JOINT AS PER BP 2.2
  - (Y) BUTT JOINT BETWEEN EXISTING PAVEMENT AND PROPOSED PAVEMENT, A DOWELLED TYPE Y JOINT AS PER BP- 2.5 SHALL BE PER SPECIFICATION 255 AND BP-2.5 EXCEPT THE REQUIREMENT THAT THE DRILLING DEVICE SHALL BE CAPABLE OF DRILLING THREE HOLES AT TIME SHALL BE WAIVED

NOTE: WORK IS TO BEGIN 360' BACK FROM STOP BAR, AND CONTINUE TO THE STOP BAR, AS SHOWN IN THE PLAN VIEW.

STATIONING SHOWN IS ALONG THE PHYSICAL CENTERLINE OF RAMP. THE END OF THE PHYSICAL GORE BETWEEN THE RAMP AND US 20 IS LOCATED AT 100+00, 16.04' R.

RAMP	LOG POINT TO LOG POINT	STATION	LENGTH		AVERAGE WIDTH INSIDE SHOULDER	AVERAGE WIDTH LINES	AVERAGE WIDTH OUTSIDE SHOULDER	TYPICAL NUMBER	PAVEMENT AREA INSIDE SHOULDER	PAVEMENT AREA LINES	PAVEMENT AREA OUTSIDE SHOULDER	US 20 EB TO US 250 EB RAMP DETAIL SUBSUMMARY					AGGREGATE SHOULDER WIDTH		AGGREGATE SHOULDER AREA	PRIME COAT (0.4 GAL/SY)	LINEAR GRADING	SHOULDER PREPARATION	COMPACTED AGGREGATE		
			MILES	FEET								254	202	203	204	304	452	LEFT						RIGHT	
												PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (1.5')	PAVEMENT REMOVED	EXCAVATION	SUBGRADE COMPACTION	AGGREGATE BASE (10.75')	NON-REINFORCED CONCRETE PAVEMENT, CLASS OCl (10')	FT						FT	
												SY	SY	CY	SY	CY	SY	SY						GAL	MILE
US 20 TO US 250	0+93	6+21	0.10	528	3	15	6	3	176	880	352	1408						2	2	235	94	0.20	235	14	
US 20 TO US 250	6+21	9+81	0.07	360	3	15	6	5	120	600	240		960	160	960	287	960	2	2	160	64	0.14	160	9	
TOTALS CARRIED TO GENERAL SUMMARY												1408	960	160	960	287	960					158	0.34	395	23

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