

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

HUR-4-6.68 ERI-4-0.00

GROTON TOWNSHIP LYME TOWNSHIP MARGARETTA TOWNSHIP PERKINS TOWNSHIP

ERIE COUNTY HURON COUNTY

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APPROVE DATE .

APPROVED DATE _____

ENGINEERS SEAL		STANDAK	D CONSTR	UCTION D	RAWINGS		SUPPLE SPECIFIC	VENTAL TATIONS
	BP-3.1	7/18/14	MT-95.30	7/15/16	TC-41.20	10/18/13	800-2016	10/21/10
ANNIN ANNI ANNI ANNI ANNI ANNI ANNI ANN	8P-4.1	7/19/13	MT-95.31	7/18/14	TC-42.20	10/18/13	821	4/20/1
WHITE OF QUILL			MT-95.32	7/18/14	TC-52.10	10/18/13	830	1/17/14
	DM-4.3	1/15/16	MT-95.40	7/18/14	TC-52.20	7/15/16	832	1/17/14
S CRAIG	DM-4.4	1/15/16	MT-95.50	10/16/15	TC-61.30	7/18/14	847	7/15/18
			MT-97.10	7/18/14	TC-64.10	7/17/15		
EX DEVORE XE	NGS-1.1	7/19/13	MT-97.12	7/18/14	TC-65.10	1/17/14		
E. E-10310	MGS-2.1	7/19/13	MT-99.20	7/19/13	IC-65.11	7/15/16		
El Port Greens & Stall	MGS-4.3	1/18/13	MT-101.70	1/17/14	TC-71.10	7/15/16		
in the second second	MGS-5.2	7/15/16	MT-101.75	7/15/16	TC-82,10	7/17/15		
MULLONAL CUMIN	MGS-6.1	7/19/13	MT-101.80	1/16/15				
A C			MT-101.90	7/17/15				
$(\circ (A)$	RM-1,1	7/18/14	MT-105.10	7/19/13				
IGNED:		7/19/13						

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Contract Proposal Available @ Contracts.dot.state.oh.us/home

Dist 3

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THIS PROJECT WILL INCLUDE PAVEMENT REPAIRS. PAVEMENT	0
PLANING AND RESURFACING WITH ASPHALT CONCRETE, STRUCTURE MAINTENANCE, CONCRETE MEDIAN REPAIRS AND PAVEMENT MARKINGS.	JECT N
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EARTH DISTURBED AREAS	E F
PROJECT EARTH DISTURBED AREA: N/A ACRES (MAINTENANCE PROJECT)	
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: N/A ACRES	;
NOTICE OF INTENT EARTH DISTURBED AREA: N/A ACRES (MAINTENANCE PROJECT)	. 0
	NO.
LIMITED ACCESS	e co
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.	ECT N
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2016 SPECIFICATIONS	ION F
THE STANDARD SPECIFICATIONS OF THE STATE OF	RUCT
OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED	ISNO
IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.	<u> </u>
I HEREBY APPROVE THESE PLANS AND DECLARE THAT	
THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF	TN
TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.	
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FIL DIRECTOR DEPARTMENT OF TRANSPORTATION	
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PLANS PREPARED BY.	6.0
DISTRICT	00
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ENGINEERIN	
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(01/STR/PV) ERI-4-0.33) 43) 3.07 (STRUCTURE ERI-4-3.07) RD 8 RD 2 RD ERI-4-RD SLM 8.02 SR 113 SLM 8.05 TR 197 EDMONDS 9 BOGART MASON OHIO TURNPIKE TURNPIKE RAMPS RD MILLER PORTL (STRUCTURE 97 SMITH RD IS TRUC TURE SKADDEN ¥. Μ. 32 26 13 0 СR CR TR СR TR 3.74 (3.90 0.33 4.65 6.52 7.95 8.40 4.38 5.30 0.71 NTS SLM . SLM NЛS SLM NЛS SLM NTS N N 22 15 Ħ - 1.1 L1 IMI PROJEC Ш ERI-4 ERI-4 HUR-4 BEGIN -HUR-LEVUE T Т П BELLE 11 E CREEK = = : - 89.9 M TS 113 LEAVE HURON COUNTY SLM 8.38 ENTER ERIE COUNTY SLM 0.00 NORFOLK SOUTHERN RAILROAD \sim RD 99 RD 0.71 TR 97 SMITH RD OHIO TURNPIKE RD 2 RD 2 SR 8.02 SR HARRIS 4.65 SR FOX TR 203 BECKSTEIN MASON POR TL AND BOGART SLM 8.40 ΡIΡΕ ₹. 108 11 ×. SLM SLM . М. TR 13 (04/STR/BR) 32 SLM 3.48 TR 0 SLM 3.74 R 6.20 (05/NHS/BR) CR СR 5.30 4.38 7.95 SLM M 7.52 SLM N Ν SLM SL S SL DESIGN DESIGNATION ERI-4, 3.74-4.38 DESIGN DESIGNATION DESIGN DESIGNATION DESIGN DESIGNATION ERI-4, 0.00-3.74 HUR-4, 6.68-8.02 HUR-4, 8.02-8.38 CURRENT ADT (2017) 4.900

CURRENT ADT (2017)	2,900
DESIGN YEAR ADT (2029)	3,100
DESIGN HOURLY VOLUME (2029)	310
DIRECTIONAL DISTRIBUTION	54%
TRUCKS (24 HOUR B&C)	19%
LEGAL DESIGN SPEED	55 MPH

	1,000
DESIGN YEAR ADT (2029)	5,400
DESIGN HOURLY VOLUME (2029)	540
DIRECTIONAL DISTRIBUTION	55%
TRUCKS (24 HOUR B&C)	16%
LEGAL DESIGN SPEED	55 MPI

CURRENT ADT (2017)	5,900
DESIGN YEAR ADT (2029)	6,400
DESIGN HOURLY VOLUME (2029)	640
DIRECTIONAL DISTRIBUTION	55%
TRUCKS (24 HOUR B&C)	13%
EGAL DESIGN SPEED	55 MPH

CURRENT ADT (2017)	γ,
DESIGN YEAR ADT (2029) 10	Ò
DESIGN HOURLY VOLUME (2029) 10	0
DIRECTIONAL DISTRIBUTION	58
TRUCKS (24 HOUR B&C)	1%
LEGAL DESIGN SPEED 5	55

DESIGN DESIGNATION ERI-4, 4.65-7.95

CURRENT ADT (2017) 14,	000
DESIGN YEAR ADT (2029)	000
DESIGN HOURLY VOLUME (2029)1,4	00
DIRECTIONAL DISTRIBUTION	%
TRUCKS (24 HOUR B&C)	
LEGAL DESIGN SPEED 55	MPH

DESIGN DESIGNATION ERI-4, 7.95-8.40

CURRENT ADT (2017) DESIGN YEAR ADT (2029)	15,000 16.000
DESIGN HOURLY VOLUME (2029)	1,400
DIRECTIONAL DISTRIBUTION	60%
TRUCKS (24 HOUR B&C)	8%
LEGAL DESIGN SPEED	55 MPH

DESIGN DESIGNATION ERI-4, 8.40-8.60

CURRENT ADT (2017)	14,000
DESIGN YEAR ADT (2029)	15,000
DESIGN HOURLY VOLUME (2029)	1,400
DIRECTIONAL DISTRIBUTION	53%
TRUCKS (24 HOUR B&C)	8%
LEGAL DESIGN SPEED	55 MPH

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<u>GENERAL</u>

<u>UTILITIES</u>

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS.

<u>GAS:</u> COLUMBIA PIPELINE GROUP 589 NORTH STATE ROAD MEDINA, OHIO 44256 330-721-4163

GAS: DOMINION EAST OHIO 1201 EAST 55 STREET. CLEVELAND, OHIO 44103 relocation@dom.com

GAS: COLUMBIA GAS OF OHIO 1800 BROAD AVENUE FINDLAY, OHIO 45840 419-427-3225

<u>CABLE:</u> TIME WARNER CABLE 1800 EAST STATE STREET FREEMONT, OHIO 43420 844-757-2833

<u>CABLE:</u> BUCKEYE CABLE SYSTEMS 4818 ANGOLA ROAD, BLDG A TOLEDO, OHIO 43615 419-724-3713

<u>ELECTRIC:</u> OHIO EDISON COMPANY 6326 LAKE AVENUE ELYRIA, OHIO 44035 440-326-3207

<u>WATER:</u> NORTHERN OHIO RURAL WATER P.O. BOX 96. COLLINS, OHIO 44826 419-668-7213

<u>ROADWAY:</u> ODOT 3 TRAFFIC 906 CLARK AVE. ASHLAND, OHIO 44805 419-207-7045 <u>TELEPHONE:</u> WINDSTREAM OHIO 560 TERNES AVENUE ELYRIA, OHIO 44035 440-329-4245

TELEPHONE: CENTURYLINK 203 WEST 9TH STREET LORAIN, OHIO 44052 440-244-8423

TELEPHONE: FRONTIER COMMUNICATION 83 TOWNSEND AVENUE NORWALK, OHIO 44857 419-744-3613

<u>TELEPHONE:</u> AT&T OF OHIO 130 NORTH ERIE STREET TOLEDO, OHIO 43604 419-245-5004

MISC: ERIE CO DEPT OF ENVIRONMENTAL SERVICES 554 RIVER ROAD HURON, OHIO 44839 419-433-7303

MISC: CITY OF SANDUSKY 222 MEIGS AVENUE SANDUSKY, OHLO 44870 419-627-5829

MISC: HURON COUNTY ENGINEER 150JEFFERSON STREET NORWALK, OHIO 44857 419-668-1997

MISC: ERIE COUNTY ENGINEER 2700 COLUMBUS AVENUE SANDUSKY, OHIO 44870 419-627-7710

THE AFOREMENTIONED UTILITY COMPANIES AND AGENCIES HAVE VARIOUS FACILITIES IN THE AREA THAT WILL REMAIN IN PLACE DURING CONSTRUCTION.

EXTREME CAUTION SHOULD BE EXERCISED IN AREAS WITH UTILITIES. SECTIONS 105.07 AND 107.16 OF THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS SPECIFICATIONS REQUIRE, AMONG OTHER THINGS, THAT THE CONTRACTOR COOPERATE WITH ALL UTILITIES LOCATED WITHIN THE LIMITS OF THIS CONSTRUCTION PROJECT AND TAKE RESPONSIBILITY FOR THE PROTECTION OF THE UTILITY PROPERTY AND SERVICES.

ROUTINE MAINTENANCE

BETWEEN THE TIME THAT BIDS ARE TAKEN AND THE START OF CONSTRUCTION, THE MAINTAINING AGENCY MAY ENTER UPON THE PROJECT AND PERFORM ROUTINE MAINTENANCE SUCH AS CRACK SEALING, PATCHING, AND BERM AND SHOULDER REPAIR. THE EFFECTS, IF ANY, OF THE PERFORMANCE OF ROUTINE MAINTENANCE SHALL BE CONSIDERED AS INHERENT IN WORK OF THE CHARACTER PROVIDED FOR IN THE PLAN AND THE RESULTING CONDITIONS SHALL NOT BE CONSIDERED AS DIFFERING MATERIALLY FROM THOSE EXISTING AT THE TIME BIDS WERE TAKEN. <u>EXISTING PLANS</u>

THE FOLLOWING EXISTING PLANS ENTITLED MAY BE INSPECTED IN THE ODOT DISTRICT 3 OFFICE IN ASHLAND.

ERI-4-2.55	(1990)
ERI-4-3.03	(1970)
ERI-6-7.31	(1985)
ERI-4-0.00	(2004)

CONSTRUCTION NOTIFICATION

THE CONTRACTOR SHALL ADVISE THE PROJECT ENGINEER A MINIMUM OF FOURTEEN (14) DAYS PRIOR TO THE FOLLOWING: THE START OF CONSTRUCTION ACTIVITIES, LANE RESTRICTIONS, LANE CLOSURES, AND OR ROAD CLOSURES. THE PROJECT ENGINEER WILL FORWARD THIS INFORMATION TO THE FOLLOWING:

DISTRICT PUBLIC INFORMATION OFFICE (PIO) BY EMAIL AT D03.PIO@DOT.OHIO.GOV

DISTRICT PERMIT SECTION BY FAX AT (614) 887-4318 OR EMAIL AT LOUIS.TUMBLIN@DOT.OHIO.GOV

CENTRAL OFFICE SPECIAL HAUL PERMITS SECTION BY FAX AT (614) 728-4099 OR EMAIL AT HAULING.PERMITS@DOT.OHIO.GOV

THE PIO WILL, IN TURN, NOTIFY THE PUBLIC, THE LOCAL EMERGENCY SERVICES, AFFECTED SCHOOLS AND BUSINESSES, AND ANY OTHER IMPACTED LOCAL PUBLIC AGENCY OF ANY OF THE ABOVE MENTIONED ITEMS, VIA MEDIA SOURCES.

<u>WORK LIMITS</u>

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

<u>FLOODLIGHTING</u>

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEOUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT UNIT PRICE FOR ITEM 614 - MAINTAINING TRAFFIC.

COORDINATION OF WORK BETWEEN CONTRACTORS

THE CONTRACTOR SHOULD BE AWARE THAT THERE MAY BE OTHER WORK BEING PERFORMED BY A SEPARATE CONTRACT. HUR-113-1.84 IS A RESURFACING PROJECT AND IS SCHEDULED TO BEGIN WORK IN THE 2017 CONSTRUCTION SEASON. COORDINATION OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.

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ROADWAY

ITEM 209 - PREPARING SUBGRADE FOR SHOULDER PAVING, AS PER PLAN

PREPARE THE SHOULDER FOR PAVING A CONSISTENT SAFETY EDGE IN BOTH THICKNESS AND WIDTH.

PRIOR TO PAVING THE SAFETY EDGE, GRADE AN AREA 10 INCHES WIDE, BEGINNING AT THE EDGE OF THE PAVED ROADWAY, TO PROVIDE A LEVEL SURFACE FREE OF VEGETATION FOR CONSTRUCTION OF THE SAFETY EDGE. IF SURFACE FREE OF VEGETATION FOR CONSTRUCTION OF THE SAFETY EDGE. IF NECESSARY, EXCAVATE THE GRADED AREA TO THE DEPTH NECESSARY TO CONSTRUCT THE SAFETY EDGE. COMPACT THE GRADED SHOULDER ACCORDING TO 617.05 OR AS DIRECTED BY THE ENGINEER. THE GRADED SHOULDER BEYOND THE 10 INCH WIDE AREA FOR THE SAFETY EDGE SHALL BE GRADED AT A 10:1 SLOPE, OR AS DIRECTED BY THE ENGINEER. THE INTENT IS TO PROVIDE AN UNOBSTRUCTED AND POSITIVE FLOW OF STORM WATER FROM THE PAVEMENT TO THE DITCH.

SAFETY EDGE

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IN ADDITION TO THE REQUIREMENTS OF 401.12, ATTACH A DEVICE TO THE SCREED OF THE PAVER THAT CONFINES THE MATERIAL AT THE END GATE AND EXTRUDES THE ASPHALT MATERIAL IN SUCH A WAY THAT RESULTS IN A COMPACTED WEDGE SHAPE PAVEMENT EDGE OF APPROXIMATELY 30 DEGREES (NOT STEEPER THAN 40 DEGREES). ENSURE THE DEVICE MAINTAINS CONTACT WITH THE EXISTING SURFACE, AND ALLOW FOR AUTOMATIC TRANSITION TO CROSS ROADS, DRIVEWAYS AND OBSTRUCTIONS. DO NOT USE CONVENTIONAL SINGLE PLATE STRIKE OFF.

CONSTRUCTION OF SAFETY EDGE CAN BE OMITTED AT LOCATIONS WHERE EXISTING WIDTH OF GRADED SHOULDER OR BERM IS LESS THAN 12". PROJECTS WITH VARYING CONDITIONS SHOULD USE SAFETY EDGE WHERE POSSIBLE. PLAN PREPARATION HAS MADE EVERY REASONABLE ATTEMPT TO IDENTIFY POSSIBLE SAFETY EDGE LOCATIONS.

USE THE TRANSTECH SHOULDER WEDGE MAKER, THE CARLSON SAFETY EDGE END GATE, THE ADVANT-EDGER, THE TROXLER SAFETSLOPE OR A SIMILAR APPROVED-EQUAL DEVICE THAT PRODUCES THE SAME WEDGE CONSOLIDATION RESULTS. CONTACT INFORMATION FOR THESE WEDGE SHAPE COMPACTION DEVICES IS THE FOLLOWING:

TRANSTECH SYSTEMS, INC.	ADVANT-EDGE PAVING EQUIPMENT LLC
1594 STATE STREET	P.O. BOX 9163
SCHENECTADY, NY 12304	NISKAYUNA, NY 12309-0163
1-800-724-6306	518-280-6090
www.transtechsys.com	www.advantedgepaving.com
CARLSON SAFETY FORE END GATE	TROYLER ELECTRONICS LABORATORIES

18450 SOTH AVENUE EAST TACOMA, WA 98446 253-875-8000

INUXLER ELECTRONICS LABORATORIES INC. 3008 E. CORNWALLIS RD. RESEARCH TRIANGLE PARK, NC 27709 1-877-TROVIED 1-877-TROXLER www.troxlerlabs.com

IF ELECTING TO USE A SIMILAR DEVICE, PROVIDE PROOF THAT THE DEVICE HAS BEEN USED ON PREVIOUS PROJECTS WITH ACCEPTABLE RESULTS OR CONSTRUCT A TEST SECTION PRIOR TO THE BEGINNING OF WORK AND DEMONSTRATE WEDGE COMPACTION TO THE SATISFACTION OF THE ENGINEER. SHORT SECTIONS OF HANDWORK WILL BE ALLOWED WHEN NECESSARY FOR TRANSITIONS AND TURNOUTS OR OTHERWISE AUTHORIZED BY THE ENGINEER.

IN ADDITION TO THE REQUIREMENTS OF 401.16, MAKE THE FIRST ROLLER PASS 8 TO 12 INCHES AWAY FROM TAPERED EDGE. DO NOT ROLL THE TAPER.

ITEM 623 - MONUMENT BOX ADJUSTED TO GRADE

ALL WORK RELATED TO ADJUSTING MONUMENT BOXES TO GRADE WILL BE IN ACCORDANCE TO SECTIONS 623.04 AND 623.05 OF THE 2016 ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS.

THE MONUMENT BOX TO BE ADJUSTED TO GRADE MAY OR MAY NOT HAVE AN EXISTING ADJUSTABLE FRAME. THE WORK SHALL CONSIST OF ADJUSTING THE EXISTING MONUMENT BOX TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR IS REMINDED TO FIELD CHECK ALL ADJUSTMENT TO GRADE ITEMS PRIOR TO BIDDING, AS NO ADDITIONAL COMPENSATION WILL BE GRANTED FOR LABOR AND MATERIALS REQUIRED TO SATISFACTORILY ADJUST CASTINGS WITHOUT ADJUSTABLE FRAMES.

APPROXIMATE LOCATIONS OF KNOWN MONUMENT BOXES ARE:

01/STR/PV	03/	/S<2,	/PV				02/1	NHS/	PV
RI-4, SLM 0.06 (BURIED) RI-4, SLM 0.19 (BURIED) RI-4, SLM 0.32 (BURIED) RI-4, SLM 0.47 (BURIED) RI-4, SLM 0.59 RI-4, SLM 0.70 RI-4, SLM 0.81	ERI-4, ERI-4, ERI-4, ERI-4,	SLM SLM SLM SLM	8.35 8.39 8.46 8.50	(IN (IN (IN (IN	MEDIA MEDIA MEDIA MEDIA	1 N) 1 N) 1 N) 1 N) 4 N)	ERI-4, ERI-4, ERI-4,	SLM SLM SLM	9.74 10.03 10.31
TEM 623 - MONUMENT BOX	ADJUSTED T	TO G	RADE:			01/STR, 02/NHS 03/S<2	/PV /PV /PV	7 E 3 E 4 E	АСН АСН АСН
						TOTAL		14 E	АСН

ITEM 611 - CASTINGS ADJUSTED TO GRADE

THE CASTING TO BE ADJUSTED MAY OR MAY NOT HAVE AN EXISTING FRAME. THE CASTING TO BE ADJUSTED MAY OR MAY NOT HAVE AN EXISTING FRAME. THE WORK SHALL CONSIST OF ADJUSTING THE EXISTING CASTING TO THE SATISFACTION OF THE ENGINEER. IT IS NOT INTENDED TO PLACE NEW FRAMES WHERE NONE CURRENTLY EXIST. THE CONTRACTOR IS REMINDED TO FIELD CHECK ALL ADJUSTMENT TO GRADE ITEMS PRIOR TO BIDDING, AS NO ADDITIONAL COMPENSATION WILL BE GRANTED FOR LABOR AND MATERIALS REQUIRED TO SATISFACTORILY ADJUST CASTINGS WITHOUT FRAMES.

APPROXIMATE LOCATIONS OF KNOWN CASTINGS ARE:

LOCATION	FUNDING SPLIT	QUANTITY
ERI-4-0.18 ERI-4-0.31 ERI-4-0.54 ERI-4-0.63	01/STR/PV 01/STR/PV 01/STR/PV 01/STR/PV 01/STR/PV	2 2 2 2 2

ITEM 611 - CATCH BASIN ADJUSTED TO GRADE:

01/STR/PV 8 EACH TOTAL 8 EACH PAVEMENT Core # County ERI ERI 3 ERI ERI 4 5 ERI 6 ERI 7 ERI 8 ERI FRI 9 10 ERI 11 ERI 12 ERI 13 ERI 14 ERI 15 FRI 16 ERI 17 ERI ERI 18 19 ERI 20 ERI ERI 21 22 ERI 23 ERI 24 ERI 25 ERI 26 ERI 27 ERI

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PAVEMENT CORING INFORMATION

Route	SLM	Asphalt	Concrete	Location	Direction
4	0.1	3.5		SH	NB
4	0.1	15.5		RWP	NB
4	0.1	16		LWP	NB
4	0.85	6.5		SH	NB
4	0.85	16		RWP	NB
4	0.85	14.5		LWP	NB
4	1.42	7		SH	NB
4	1.42	12		RWP	NB
4	1.42	11		LWP	NB
4	1.9	5		SH	NB
4	1.9	11		RWP	NB
4	1.9	12		LWP	NB
4	2.85	3.5		SH	NB
4	2.85	15.5		RWP	NB
4	2.85	14.5		LWP	NB
4	3.5	7.5		SH	NB
4	3.5	14.5		RWP	NB
4	3.5	12.5		LWP	NB
4	4	4.5		SH	NB
4	4	16		RWP	NB
4	4	13		LWP	NB
4	4.5	6		SH	NB
4	4.5	18.5		RWP	NB
4	4.5	12	8	LWP	NB
4	5.1	4.5		SH	NB
4	5.1	15.5		RWP	NB
4	5.1	10	8	LWP	NB
4	5.6	4.5		SH	NB
4	5.6	11.5	6	RWP	NB
4	5.6	10	6.5	LWP	NB
4	6.1	6.5		SH	NB
4	6.1	11.5	6.5	RWP	NB
4	6.1	11.5	8	LWP	NB
4	6.75	4		SH	NB
4	6.75	17		RWP	NB
4	6.75	11	8	LWP	NB
4	7.4	12		SH	NB
4	7.4	15		RWP	NB
4	7.4	9	8	LWP	NB
4	8.1	2.5		SH	NB
4	8.1	14		RWP	NB
4	8.1	10	7	LWP	NB
4	8.75	2		SH	NB
4	8.75	10		RWP	NB
4	8.75	12		LWP	NB

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PAVEMENT (CONTINUED)

<u> ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (442)</u> ITEM 253 - PAVEMENT REPAIR

THESE ITEMS OF WORK SHALL CONSIST OF THE REMOVAL OF THE EXISTING PAVEMENT OR PAVED BERM WHICH MAY BE ASPHALT, BRICK, CONCRETE, OR A COMBINATION OF EACH, IN AREAS OF EXISTING PAVEMENT FAILURE. CORING HAS BEEN PERFORMED TO HELP DETERMINE THE COMPONENTS THAT MAY BE ENCOUNTERED DURING THIS ITEM OF WORK. THE PAVEMENT CORING INFORMATION IS SHOWN ON THE PREVIOUS PLAN SHEET.

PAVEMENT REPAIR SHALL BE PERFORMED AFTER PAVEMENT PLANING AND BEFORE PLACEMENT OF THE INTERMEDIATE AND/OR SURFACE COURSE. THE DEPTH OF REMOVAL SHALL BE SUFFICIENT TO REMOVE ALL DETERIORATED PAVEMENT WITH A MAXIMUM DEPTH OF 11", BASED ON THE PAVEMENT DESIGN AND AN AVERAGE DEPTH OF 4" AND AN AVERAGE WIDTH OF 2 FT FOR ESTIMATING PURPOSES.

REPLACEMENT MATERIAL SHALL BE ITEM 301, OR ITEM 442 19MM, AS PER PLAN MATERIAL AND SHALL BE PLACED AND COMPACTED TO FINISH FLUSH WITH THE ADJACENT PAVEMENT SURFACE DE PLACED AND COMPACTUD TO FINSH FLOSH WITT THE ADJACENT PAVEMENT SURFACE. ITEM 301 ASPHALT CONCRETE CAN BE USED WHEN THE DEPTH OF THE REPAIR IS BETWEEN 3" AND 12" WITH A MAXIMUM PAVEMENT LIFT OF 6". ITEM 442 19MM, AS PER PLAN CAN BE USED WHEN THE DEPTH OF THE REPAIR IS BETWEEN 1.5" AND 3". PG 64-22 ASPHALT BINDER SHALL BE USED FOR ALL OF THE ASPHALT CONRETE MATERIALS FOR THESE REPAIRS.

FOR THE ITEM 442 19 MM, AS PER PLAN MATERIAL, REQUIREMENTS OF 442 APPLY EXCEPT AS FOLLOWS:

MIX DESIGN: FOR Ndes USE 50 GYRATIONS, FOR Nmax USE 75 GYRATIONS. USE A PG 64-22 BINDER.

MAXIMUM RECLAIMED ASPHALT CONCRETE PAVEMENT IS 30 PERCENT. APPLY 703.05 FOR COARSE AND FINE AGGREGATE EXCEPT GRADATION FOR FINE AGGREGATE DOES NOT APPLY. QUALITY CONTROL: DO NOT PERFORM Nmax IN QUALITY CONTROL TESTING. DO

NOT TAKE EXTRA ASPHALT BINDER SAMPLES AS OUTLINED IN CMS 442.05.

PAYMENT SHALL INCLUDE ALL LABOR, EOUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE PAVEMENT REPAIR. FOR PAYMENT PURPOSES ITEM 251 PARTIAL DEPTH PAVEMENT REPAIR (442) IS TO BE A MAXIMUM OF 4" DEEP AND ITEM 253 PAVEMENT REPAIR IS FOR DEPTHS GREATER THAN 4". PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER CUBIC YARD, (BY TICKET WEIGHT CONVERSION), OF ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (442) OR ITEM 253 - PAVEMENT REPAIR. THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER:

ITEM 251 -PARTIAL DEPTH PAVEMENT REPAIR (442):

COUNTY	DOUTE	SLM (OUANTITY	
LUUNII	ROUTE	BEGIN	END	(CY)	FUNDING
HURON	4	6.68	8.02	306	01/STR/PV
HURON	4	8.02	8.38	155	01/STR/PV
ERIE	4	0.00	0.71	33	01/STR/PV
ERIE	4	0.71	2.65	160	01/STR/PV
ERIE	4	2.65	4.38	179	01/STR/PV
ERIE	4	4.38	5.30	36	01/STR/PV
ERIE	4	5.30	6.20	33	01/STR/PV
ERIE	4	6.20	7.95	111	01/STR/PV
ERIE	4	7.95	8.59	52	03/S<2/PV
ERIE	4	9.10	9.34	20	03/S<2/PV
ERIE	4	9.34	10.59	91	02/NHS/PV
		С	1/STR/PV:	1013	СҮ
		02/NHS/PV:		91	СҮ
		03/S<2/PV:		72	СҮ
			TOTAL:	1176	СҮ

ITEM 253 - PAVEMENT REPAIR:

01/STR/PV:	230	CY
02/NHS/PV:	10	CY
03/S<2/PV:	10	CY
TOTAL:	250	СҮ

ITEM 254 - PATCHING PLANED SURFACE

AN ESTIMATED QUANTITY OF ITEM 254 - PATCHING PLANED SURFACE HAS BEEN SET UP TO BE USED AS DIRECTED BY THE ENGINEER AS DESCRIBED IN CMS 254.04. THE LIMIT OF THE PATCHING DEPTH IS 0 TO 2 IN.

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (1.50")

THE INTENT OF THE PLANING IS TO MILL 1.50 INCHES AT THE CENTER OF PAVEMENT AT THE NON-CURBED AREAS. THE PAVEMENT SLOPE SHALL BE 0.010 PAVEMENT AT THE NON-CURBED AREAS. THE PAVEMENT SLOPE SHALL BE 0.010 MINIMUM AND 0.016 PREFERRED, CONTINUOUS BETWEEN THE CROWN AND THE PROPOSED EDGELINE/SHOULDER. THE MILLING DEPTH SHALL BE CONTROLLED FROM THE CENTER OF PAVEMENT IN CONFORMANCE WITH THE ABOVE GUIDELINES. WHEN 1.50 INCH DEPTH PAVEMENT PLANING IS BEING PERFORMED AT THE CENTERLINE, THE CONTRACTOR MAY HAVE TO PLANE DEEPER AT THE EDGE OF PAVEMENT TO ESTABLISH THE MINIMUM CROSS SLOPE. IF THIS IS THE CASE, THE CONTRACTOR SHALL PLANE A MAXIMUM OF 2.5 INCHES AT THE EDGE OF PAVEMENT EVEN IF THIS MAXIMUM DEPTH DOES NOT MEET THE MINIMUM CROSS SLOPE REQUIREMENTS MINIMUM CROSS SLOPE REQUIREMENTS.

SPECIAL ATTENTION SHALL BE GIVEN TO SUPERELEVATED CURVES. THE SUPERELEVATION SHALL BE MAINTAINED AND/OR RESTORED, IF NECESSARY, AS DIRECTED BY THE ENGINEER. IF THERE IS NO INFORMATION IN THE PLANS TO CHANGE THE SUPERELEVATION, THE INTENT IS TO MAINTAIN THE EXISTING SUPERELEVATION.

THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE TO ALL CATCH BASINS AND INLETS.

THE PROGRESSION OF THE PLANING SHALL PROCEED IN SUCH A MANNER THAT NORMAL TRAFFIC WILL NOT BE REQUIRED TO RUN OVER THE PLANED ROADWAY SURFACE MORE THAN SEVEN (7) CALENDAR DAYS. FOR EACH CALENDAR DAY BEYOND THE 7 DAYS THAT THE ROADWAY REMAINS EXPOSED TO THE PLANED SURFACE, THE CONTRACTOR WILL BE ASSESSED A DISINCENTIVE FEE OF \$1,000.

PAYMENT SHALL INCLUDE ALL LABOR, EOUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE PAVEMENT PLANING, ASPHALT CONCRETE. PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER SQUARE YARD OF ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE.

<u> ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 9.5 MM, TYPE A (448), AS PER PLAN</u>

ALL OPEN TRANSVERSE JOINTS SHALL BE TAPERED TO MEET EXISTING PAVEMENT BEFORE INTRODUCING TRAFFIC. A "BUMP" SIGN (W8-1-36) SHALL BE ERECTED ON EACH SIDE OF TRANSVERSE JOINTS LEFT OPEN OVER NIGHT, INCLUDING A SPEED ADVISORY SIGN. THESE SIGNS SHALL BE REMOVED IMMEDIATELY AFTER JOINT HAS BEEN CLOSED. PLACEMENT OF SIGNS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

CARE SHALL BE TAKEN TO MATCH EXISTING PAVEMENT ELEVATIONS AT EXISTING PAVED BERMS, DRIVES, INTERSECTIONS, ETC.

REQUIREMENTS OF 442 APPLY EXCEPT AS FOLLOWS: MIX DESIGN: FOR Ndes USE 50 GYRATIONS, FOR Nmax USE 75 GYRATIONS. MINIMUM TOTAL PG BINDER CONTENT IS 6.0 PERCENT. MINIMUM VIRGIN PG BINDER CONTENT IS 5.0 PERCENT. USE A PG 64-22 BINDER.

MAXIMUM RECLAIMED ASPHALT CONCRETE PAVEMENT IS 20 PERCENT WHEN AN AGGREGATE SOURCE IS SPECIALLY DESIGNATED WITH AN SR ON THE AGGREGATE GRAVITY LIST DO NOT USE THE AGGREGATE EXCEPT AS ALLOWED FOR MEDIUM TRAFFIC IN THE GUIDELINES FOR MAINTAINING ADEQUATE

PAVEMENT FRICTION IN SURFACE PAVEMENT. QUALITY CONTROL: DO NOT PERFORM Nmax IN QUALITY CONTROL TESTING. DO NOT TAKE EXTRA ASPHALT BINDER SAMPLES AS OUTLINED IN CMS 442.05.

<u> ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 9.5MM, TYPE A (448), AS PER PLAN (SAFETY EDGE)</u>

THE SAFETY EDGE SHALL BE INSTALLED AT THE SAME TIME AS THE SURFACE COURSE IS TO BE PLACED. THE SAFETY EDGE WILL NOT REQUIRE ANY DENSITY TESTING.

INTERSECTIONS AN

RURAL-INTERSECTIONS RADII OR AS DIRECTEL TRANSITION BETWEEN

URBAN-INTERSECTIONS CROSSWALKS OR AS D. TRANSITION BETWEEN

EXISTING PAVED DRIVE TRANSITION BETWEEN ROADWAY MAY VARY A

EXISTING AGGREGATE D WIDTH OF 4 FT. THE ADJACENT PAVEMENT S NEEDED TO PAVE THE ITEM FOR PAYMENT. ADJACENT TO THIS AF TO THE EXISTING DRI DIRECTED BY THE ENG. BEEN ESTIMATED TO C ON THE PAVEMENT &

ANY HAZARD OR UNSAH CORRECTED IMMEDIATE 105.01, 107.07 & 614.0 SPECIFICATIONS.

THE PAVING DIMENSION BELOW.



FUNDING SPLIT	INTERSECTION NAME	COUNTY	ROUTE	SLM	SIDE	A (FT)	В (FT)	С (FT)	Area (SY)
01/STR/PV	BECKSTEIN RD	HURON	4	7.52	R	12	45	76	74
01/STR/PV	SR 113	HURON	4	8.02	L	0	0	0	0
01/STR/PV	SR 113	HURON	4	8.02	R	0	0	0	0
01/STR/PV	EDMONDS RD	HURON	4	8.05	L	10	24	45	34
01/STR/PV	SMITH RD	ERIE	4	0.71	L	20	44	80	124
01/STR/PV	SMITH RD	ERIE	4	0.71	R	20	32	72	101
01/STR/PV	STRECKER RD	ERIE	4	2.65	L	12	50	82	81
01/STR/PV	STRECKER RD	ERIE	4	2.65	R	12	32	64	57
01/STR/PV	HARRIS RD	ERIE	4	3.48	R	12	52	88	85
01/STR/PV	PORTLAND RD	ERIE	4	4.38	L	16	120	200	261
01/STR/PV	PORTLAND RD	ERIE	4	4.38	R	16	98	178	222
01/STR/PV	SKADDEN	ERIE	4	4.65	L	10	27	45	37
01/STR/PV	SR 99	ERIE	4	4.65	R	18	70	130	180
01/STR/PV	MASON RD	ERIE	4	5.30	L	12	29	69	56
01/STR/PV	MASON RD	ERIE	4	5.30	R	12	54	78	83
01/STR/PV	FOX RD	ERIE	4	6.20	R	12	26	50	45
01/STR/PV	MILLER RD	ERIE	4	6.52	L	12	17	43	34
03/S<2/PV	BOGART RD	ERIE	4	7.95	L	10	74	116	98
03/S<2/PV	BOGART RD	ERIE	4	7.95	R	10	64	92	81
02/NHS/PV	WADE BLVD	ERIE	4	9.52	L	10	26	46	36
02/NHS/PV	BONE CREEK DR	ERIE	4	10.11	L	10	93	115	- 111
									1474
	UD TOTAL (02/NUC (DV)								14/4
S	UD-IUIAL (UZ/NHS/PV)								147
5	UB-IUTAL (US/S(Z/PV)								119
101A	L INTERSECTION AREAS								1800

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ND DRIVES									CULATED JWS ECKED
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5 SHALL BE PLA IRECTED BY THE THE TWO HIGHW	NED AND E ENGINEE AYS, AND	PAVED R. (TO TO EL.	TO THE O PROV IMINATE	BACK IDE A WATE	OF SMOO ER POO	TH CKETS).			
ES SHALL BE PA THE HIGHWAY A T EACH DRIVE)	VED SO A ND THE D AS DIREC	AS TO P RIVE,(L TED BY	PROVIDE DISTANC THE EN	E A SM CE FRC NGINEE	OOTH DM EDG R.	E OF			
DRIVES SHALL E SLOPE OF THIS SLOPE OR AS D APRON SHALL E ITEM 617 COMP, RON TO PROVIL (E, (WIDTH OF T INEER. AN ADD COMPLETE THIS SHOULDER DATA	BE PAVED APRON S IRECTED S BE INCLUE ACTED AG DE A SMO THIS 617 ITIONAL WORK AN SHEET.	WITH A SHALL B BY THE DED IN 1 GREGATI OTH TR APPLICA QUANTI D IS SHO	N APRC E THE ENGINE THE REL E SHALL ANSITIC TION M TY OF A OWN AS	ON AN SAME A ER. A ATED L BE F ON FRO MAY VA ITEM 6 AN E.	AVERA AS THE NY GR ASPHA PLACED OM THE RY) AS SIT HAS XTRA A	GE ADING L T APRC	DN		
FE CONDITION R ELY. THE CONT D2A OF THE CON	RESULTING RACTOR NSTRUCTI	G FROM IS REMII ON AND	THE AB NDED O MATER	ROVE M F SEC IALS	VORK N TIONS	IUST B	E		
NS FOR THE INI	ERSECTIO	ONS ARE	SHOWI	V IN T	НЕ СН4	1 <i>RT</i>			ES
C									
									ENERAL
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RSECTION NAME	COUNTY	ROUTE	SLM	SIDE	A (FT)	B (FT)	C (FT)	Area (SY)	
RECKSTEIN RD	HURON	4	7 52	R	12	45	76	74	
SR 113	HURON	4	8.02	1	0	0	0		
SR 113	HURON	4	8.02	R	0	0	0	v	
EDMONDS RD	HURON	4	8.05	1	10	24	45	34	1

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MAINTENANCE OF TRAFFIC

446 DENSITY ACCEPTANCE WITH FLAGGER CLOSING OF A 2-LANE HIGHWAY FOR PAVING OPERATIONS

THIS PLAN NOTE APPLIES ONLY TO A FLAGGER CLOSURE OF ONE LANE OF A 2-LANE HIGHWAY DURING PAVING OPERATIONS WHEN USING STANDARD CONSTRUCTION DRAWING MT-97.11 OR MT-97.12, AND ALLOWS A PAVING OPERATION TO PROCEED CONCURRENTLY WITH THE MARKING AND CUTTING OF CORES REQUIRED FOR 446 DENSITY ACCEPTANCE.

IN ALL CASES THE CONTRACTOR SHOULD LENGTHEN THEIR LANE CLOSURES TO THE MAXIMUM PERMISSIBLE LENGTH DETAILED IN THE ABOVE REFERENCED STANDARD CONSTRUCTION DRAWINGS TO ALLOW THE ENGINEER ADEQUATE TIME TO MARK THE REQUIRED CORE LOCATIONS AND FOR CORE CUTTING OPERATIONS.

THE CONTRACTOR WILL PROVIDE TO THE ENGINEER THE PLANNED QUANTITY THAT WILL BE PLACED FOR THE DAY'S PRODUCTION. EACH DAY'S PRODUCTION WILL BE CONSIDERED ONE LOT AND INCLUDES SHOULDERS. TEN CORES WILL BE OBTAINED BY THE CONTRACTOR FOR EACH LOT AT RANDOM LOCATIONS DETERMINED BY THE ENGINEER. THE ENGINEER WILL DIVIDE A LOT INTO FIVE EQUAL SUBLOTS AND CALCULATE TWO RANDOM CORE LOCATIONS IN EACH SUBLOT AS DESCRIBED IN C&MS 446.05.

THE ENGINEER WILL MARK THE CORE LOCATIONS AFTER THE PAVING OPERATION (INCLUDING THE FINISH ROLLER) HAS COMPLETELY PASSED THE RANDOMLY SELECTED CORE LOCATION. THE CONTRACTOR SHOULD DETERMINE WHEN IT IS APPROPIATE TO START THE CORE DRILL OPERATION AND BEGIN CUTTING CORES WHEN THE NEWLY PLACED PAVEMENT SURFACE TEMPERATURE IS LESS THAN 140°F. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE LANE CLOSURE DURING ALL PAVING, CORE MARKING, AND CORING OPERATIONS PER THE REQUIREMENTS OF THE STANDARD CONSTRUCTION DRAWING USED FOR THE PAVING OPERATION.

BUTT JOINTS

BUTT JOINTS SHALL NOT BE CUT AND LEFT OPEN TO TRAFFIC. THEY SHALL BE FILLED IN WITH A TEMPORARY ASPHALT CONCRETE WEDGE USING ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC.

CONSTRUCTION "BUMP" (W8-1-36) AND "ADVISORY SPEED" (W13-1-24) SIGNS SHALL BE ERECTED AND MAINTAINED DURING THE PERIOD THE BUTT JOINT IS LEFT OPEN. THESE SIGNS SHALL BE PAID FOR UNDER THE LUMP SUM ITEM FOR ITEM 614 MAINTAINING TRAFFIC.

ITEM 614 - MAINTAINING TRAFFIC LANE CLOSURE/REDUCTION REOUIRED

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER REGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

<u> ITEM 614 - MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)</u>

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

CHRISTMAS	FOURTH OF JULY
NEW YEARS	LABOR DAY
MEMORIAL DAY	THANKSGIVING

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF THE	TIME ALL LANES MUST
WEEK	BE OPEN TO TRAFFIC

SUNDA Y	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDA Y	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDA Y	12:00N WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SA TURDA Y	12:00N FRIDAY THROUGH 6:00 AM MONDAY

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE FEE OF \$1,000 PER DAY.

ITEM 614 - MAINTAINING TRAFFIC

A MINIMUM OF ONE (1) LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES USING FLAGGERS EXCEPT AS NOTED IN THE STRUCTURE DETAILS FOR STRUCTURE HUR-547-7.25 WHERE A SIGNALIZED LANE CLOSURE SHALL BE USED.

NO DETOURS ARE ALLOWED UNTIL AFTER THE SCHOOL YEAR IS OUT WHICH IS APPROXIMATELY JUNE 9. 2017.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

ITEM 614 - MAINTAINING TRAFFIC

ALL ADVANCE WARNING SIGNS FOR ANY CONDITION WHICH RESTRICTS TRAFFIC SHALL BE ERECTED BEFORE ANY SUCH RESTRICTION IS PUT INTO EFFECT. ALL SUCH SIGNS SHALL BE COVERED OR REMOVED FROM THE VIEW OF TRAFFIC WHEN THEY ARE NOT APPLICABLE, WITH THE APPROVAL OF THE ENGINEER.

IF THE CONTRACTOR FAILS TO COMPLY WITH THE PROVISIONS FOR TRAFFIC CONTROL AS SET FORTH IN THESE PLANS OR WITH PROVISIONS OF THE OMUTCD, AND SUCH FAILURE RESULTS IN A CONDITION AT THE WORK SITE WHICH IS UNSAFE FOR TRAFFIC, THE ENGINEER SHALL SUSPEND WORK UNTIL THE CONTRACTOR COMPLIES WITH THE NECESSARY REQUIREMENTS.

ALL MAINTENANCE OF TRAFFIC SIGNS ARE PAID UNDER ITEM 614 - MAINTAINING TRAFFIC.

ITEM 614 - MAINTAINING TRAFFIC: GENERAL

ONE 11' LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES. ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, PLAN DETAILS, STANDARD DRAWINGS, AND AS OUTLINED IN THE CONSTRUCTION AND MAINTENANCE SECTION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES CURRENT EDITION WITH THE LATEST REVISIONS. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 - MAINTAINING TRAFFIC UNLESS SEPARATELY ITEMIZED ON THIS PLAN.

THE FOLLOWING REQUIREMENTS SHALL ALSO APPLY: THE CONTRACTOR SHALL SUBMIT, IN WRITING, A SCHEDULE OF OPERATIONS TO THE ENGINEER AND RECEIVE APPROVAL BEFORE WORK IS STARTED ON THE PROJECT. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL COORDINATE THE MAINTENANCE OF TRAFFIC OPERATIONS WITH THE LOCAL STATE HIGHWAY PATROL.

NIGHT WORK IS PERMITTED.

THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL PAVEMENT THROUGHOUT THE PROJECT UNDER ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC DURING THE PERIOD FROM THE START OF WORK TO THE COMPLETION OF ALL WORK.

ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC

THE FOLLOWING ESTIMATED OUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY TO CONSTRUCT A TEMPORARY ASPHALT WEDGE FROM THE EXISTING PAVEMENT TO THE PLANED SUFFACE AT BUTT JOINTS AND OTHER LOCATIONS THAT RESULT IN A DROP-OFF IN EXCESS OF 1.5 INCHES, AS DIRECTED BY THE ENGINEER. THIS OUANTITY SHALL ALSO BE USED AT PLANED SUFFACES WHERE A TEMPORARY ASPHALT WEDGE IS NEEDED AROUND CASTINGS, AS DIRECTED BY THE FORMER DEFENDENT. THE ENGINEER. BEFORE THE ASPHALT CONCRETE RESURFACING IS PLACED, THE PORARY WEDGE SHALL BE REMOVED AND THE COST SHALL BE CONSIDERED INCIDENTAL TO ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC.

ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC 100 CU YD

WORK OPERATIONS

IN ADDITION TO THE REQUIREMENTS OF SECTION 614 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS THE FOLLOWING SHALL APPLY:

THE CONTRACTOR'S EQUIPMENT SHALL BE OPERATED IN THE DIRECTION OF TRAVEL WHERE PRACTICAL. A FLAGGER SHALL BE USED WHERE THE CONTRACTOR'S EQUIPMENT MUST MERGE WITH THE TRAFFIC STREAM.

THE CONTRACTOR SHALL ARRANGE CONSTRUCTION OPERATIONS SO AS TO PREVENT ANY INTERFERENCE TO THE CONTINUOUS FLOW OF TRAFFIC. ALL VEHICLES, EQUIPMENT, WORKERS AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO THE CLOSED LANES UNLESS OTHERWISE APPROVED BY THE ENGINEER.

MAINTENANCE OF TRAFFIC SCHEME

ITEM 614 - WORK ZONE MARKING SIGN

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR TEMPORARY WORK ZONE MARKING SIGNS PER THE REQUIREMENTS OF THE CONSTRUCTION AND MATERIALS SPECIFICATIONS, 614.04.

WORK ZONE MARKING WORK ZONE MARKING WORK ZONE MARKING

01/STR/PV TOTAL = 02/NHS/PV TOTAL = 03/S<2/PV TOTAL = ------

TOTAL =

ARRANGEMENTS ARE INITIATED.

LAW ENFORCEMENT OFFICERS (LEO'S) SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED. THE LEO'S ARE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH THEY ARE EMPLOYED BY THE CONTRACTOR. THE PROJECT ENGINEER SHALL HAVE CONTROL OVER THEIR PLACEMENT. THE OFFICIAL PATROL CAR SHALL BE A PUBLIC SAFETY VEHICLE AS REQUIRED BY THE OHIO REVISED CODE. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEO'S SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THESE SERVICES AND PROVIDE 72 HOURS ADVANCE NOTICE AS REQUIRED BY THE HIGHWAY PATROL I ISTED BELOW:

STATE HIGHWAY PATROL (ERIE CO.) STATE HIGHWAY PATROL (HURON CO.) 511 FREMONT AVENUE 300 SOUTH NORWALK ROAD SANDUSKY, OHIO 44870 NORWALK, OHIO 44857 (419) 625-6565 (419) 668-3711

LAW ENFORCEMENT OFFICERS WITH PATROL CAR REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

120 HOURS

THE HOURS PAID SHALL INCLUDE MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

IF THE CONTRACTOR WISHES TO UTILIZE LEO'S FOR FLAGGING AND TRAFFIC CONTROL OTHER THAN FOR THAT REQUIRED IN THESE PLANS, THEY MAY DO SO AT THEIR OWN EXPENSE.

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THE CONTRACTOR SHALL SCHEDULE THEIR WORK AND METHODS IN ORDER TO MEET THE INTERT OF THE PLANS. THE PAVEMENT SURFACES TO BE USED BY THE TRAVELING PUBLIC SHALL BE ABLE TO DRAIN FREELY. ALL COSTS TO MAINTAIN THE ROADWAY AS PER THE CONSTRUCTION AND MATERIALS SPECIFICATIONS AND THE PLANS SHALL BE INCLUDED IN ITEM 614 LUMP SUM MAINTAINING TRAFFIC UNLESS SEPARATELY ITEMIZED.

IGN: (W8-H12A-36) NO EDGE LINE	- = 35 EACH
IGN: (R4-1-24) DO NOT PASS	= 24 EACH
IGN: (R4-2-24) PASS WITH CARE	= 25 EACH

66 EACH
8 EACH 10 EACH

84 EACH

<u>ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR</u> <u>ASSISTANCE DURING CONSTRUCTION OPERATIONS</u>

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE LATEST EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), A UNIFORMED LAW ENFORCEMENT OFFICER (AND OFFICIAL PATROL CAR WITH MOUNTED EMERGENCY FLASHING LIGHTS) SHALL BE PROVIDED FOR CONTROLLING TRAFFIC FOR THE FOLLOWING TASKS AS DIRECTED BY THE ENGINEER:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

DURING A TRAFFIC SIGNAL INSTALLATION.

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE

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ITEM 614 - MAINTAINING TRAFFIC FOR STRUCTURES ERI-4-2.56 & ERI-4-3.07

TWO WAY TRAFFIC ON STRUCTURES ERI-4-2.56 & ERI-4-3.07 SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT THROUGH TRAFFIC ON THE STRUCTURE MAY HAVE A LANE CLOSURE DURING NORMAL WORKING HOURS USING FLAGGERS AS SHOWN ON STANDARD DRAWING MT-97.10.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EOUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

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CALCULATED JWS CHECKED CAD	
MAINTENANCE OF TRAFFIC NOTES	
HUR-4-6.68 ERI-4-0.00	
8 26	

STRUCTURE NOTES

<u>DESIGN DATA</u>

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4,500 PSI

DESIGN SPECIFICATIONS

DESIGN SPECIFICATIONS: THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2002, INCLUDING THE 2003-2007 INTERIM SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL.

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURES HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURES AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURES AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02, AND 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURES. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD.

PLACING ASPHALT CONCRETE FEATHERING ON APPROACHES TO BRIDGES

SPECIAL CARE SHALL BE TAKEN, WHEN PLACING THE ASPHALT CONCRETE BUTT JOINT TO EFFECT A SMOOTH TRANSITION FROM THE EXISTING APPROACH PAVEMENT TO THE BRIDGE DECK THE CONTRACTOR'S ATTENTION IS CALLED TO STANDARD DRAWING BP-3.1 FOR REQUIRED TOLERANCES.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN

THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS WILL NOT BE PERMITTED. THE METHOD OF REMOVAL SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE OR DAMAGE THE EXISTING REINFORCING STEEL TO BE PRESERVED. THE WEIGHT OF THE HAMMERS SHALL NOT BE MORE THAN 60 POUNDS. DO NOT PLACE PNEUMATIC HAMMERS IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

CUT LINE CONSTRUCTION JOINT PREPARATION: SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS I INCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING REINFORCING STEL, IF REQUIRED IN THE PLANS, IN PLACE. PRIOR TO CONCRETE PLACEMENT, ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING REINFORCING STEEL DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH, BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER CUBIC YARD FOR THE ABOVE ITEMS WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

<u>ITEM 511 - CLASS OC2 CONCRETE, MISC.: (ROADWAY MEDIAN REPAIR)</u> ITEM 511 - CLASS OC2 CONCRETE, MISC.: (STRUCTURE MEDIAN REPAIR)

THIS ITEM SHALL BE USED AT LOCATIONS INDICATED IN THE PLAN.

THE CONCRETE SHALL BE CLASS OC2 WITH THE COARSE AGGREGATE BEING LIMESTONE.

ALL EXISTING SURFACES TO WHICH THE CONCRETE IS TO BOND SHALL BE CLEANED BY ABRASIVE BLASTING. THESE SURFACES SHALL BE MADE FREE OF SPALLS, LAITANCE, PAINT, RUST AND OTHER CONTAMINANTS DETRIMENTAL TO ACHIEVING AN ADEQUATE BOND.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER CUBIC YARD FOR THE ABOVE WHICH WILL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 516 - JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN:

THIS WORK CONSISTS OF RAISING OR REPOSITIONING EXISTING STRUCTURE TO THE DIMENSIONS AND REQUIREMENTS DEFINED IN THE PROJECT PLANS.

SUBMIT WORKING DRAWINGS AND CALCULATIONS IN ACCORDANCE WITH CMS 501.05.

IF, DURING THE JACKING OPERATIONS, CRACKING OF THE CONCRETE SUPERSTRUCTURE, OR OTHER DAMAGE TO THE STRUCTURE IS VISUALLY OBSERVED, IMMEDIATELY CEASE THE JACKING OPERATION AND INSTALL SUPPORTS TO THE SATISFACTION OF THE ENGINEER. ANALYZE THE DAMAGE AND SUBMIT A METHOD OF CORRECTION TO THE ENGINEER FOR APPROVAL. THE DEPARTMENT WILL NOT PAY FOR THE COST OF THE REQUIRED REPAIRS.

THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM BASIS.

THE DEPARTMENT WILL PAY FOR THE ACCEPTED OUANTITIES AT THE CONTRACT PRICE FOR ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN.

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CALCULATED JWS CHECKED CAD
STRUCTURE NOTES
HUR-4-6.68 ERI-4-0.00
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ITEM SPECIAL, MAILBOX SUPPORT SYSTEM

THIS ITEM OF WORK SHALL CONSIST OF THE REMOVAL OF EXISTING NON-STANDARD MAILBOX SUPPORTS AND FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED HARDWARE IN ACCORDANCE WITH THE DETAILS SHOWN, AND ATTACHING AN OWNER SUPPLIED MAILBOX, AT LOCATIONS DETERMINED BY THE ENGINEER.

IN ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE BOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL SUPPLY ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION. SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINCLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO MAILBOXES MAY BE MOUNTED ON A SINGLE POST. [HARDWARE SHALL BE COMMERCIAL GRADE GALVANIZED STEEL.]

WOOD POSTS SHALL BE NOMINAL 4 IN. \times 4 IN. (S4S) OR 4^{1}_{2} IN. DIAMETER ROUND, AND CONFORM TO 710.14. STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 IN. I.D., AND CONFORM TO AASHTO M 181.

POSTS SHALL BE SET AS PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK WITH THE LOCAL POST MASTER AND NOTIFYING THE PROPERTY OWNERS PRIOR TO WORK.

GROUP MAILBOX SUPPORTS SHALL BE PLACED ON 3 FT. CENTERS AND THE TURNOUT LENGTHENED TO ACCOMMODATE THE GROUPING.

WHERE GUARDRAIL EXISTS, MAILBOXES AND THEIR SUPPORTS SHALL BE PLACED BEHIND THE GUARDRAIL. SUPPORTS MUST STILL MEET THE BREAKAWAY REQUIREMENTS LISTED ABOVE.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DESCRIBED ABOVE.

ITEM SPECIAL-MAILBOX SUPPORT SYSTEM, SINGLE 01/STR/PV - SR 4	5 EACH
ITEM SPECIAL-MAILBOX SUPPORT SYSTEM, DOUBLE 01/STR/PV - SR 4	4 EACH

LOCATIONS OF MAILBOX SUPPORT SYSTEM TO BE REPLACED

ADDRESSES AND/OR LOCATIONS OF MAILBOX SUPPORT SYSTEM TO BE REPLACED:

5094	SR 4 - SLM: 7.89, HURON COUNT
5298	SR 4 - SLM: 8.23, HURON COUNT
8605	SR 4 - SLM: 4.44, ERIE COUNTY
8017	SR 4 - SLM: 5.09, ERIE COUNTY
6912	SR 4 - SLM: 6.16, ERIE COUNTY
5208	SR 4 - SLM: 7.81, ERIE COUNTY
5120	SR 4 - SLM: 7.86, ERIE COUNTY
4707	SR 4 - SLM: 8.29, ERIE COUNTY
4714	SR 4 - SLM: 8.29. ERIE COUNTY

MAILBOX APPROACHES

THE MAILBOX APPROACHES SHALL BE PAVED WITH 1.00" ITEM 442 INTERMEDIATE COURSE AND 1.25" ITEM 442 SURFACE COURSE. THEY SHALL CONFORM AS MUCH AS PRACTICAL TO STANDARD DRAWING BP-4.1 OR AS DIRECTED BY THE ENGINEER.

GRADING SHALL BE PERFORMED IN THESE AREAS TO OBTAIN A BASE WHICH WILL ALLOW THE FINISHED GRADE TO BE FLUSH WITH ADJACENT PAVEMENT. A ALLOW THE PINISHED GRADE TO BE FLOSH WITH ADDRENT FAVEWENT. A OUANTITY OF ITEM 617 COMPACTED AGGREGATE HAS BEEN PROVIDED FOR AREAS WHERE THE SHOULDER IS LOW PRIOR TO GRADING AND/OR LOW AREAS CAUSED BY THE REMOVAL OF UNSUITABLE MATERIAL. OUANTITIES TO PERFORM THIS WORK HAVE BEEN INCLUDED IN THE GENERAL SUMMARY AND ARE ESTIMATED AS FOLLOWS.

ITEM 209 - GRADING MAILBOX APPROACHES: 01/STR/PV - SR 4	
02/NHS/PV - SR 4 03/S<2/PV - SR 4	11 ЕАСН 24 ЕЛСН
ITEM 617 - COMPACTED ACCDECATE AS DED DI AN	21 24011
01/STR/PV - SR 4	
02/NHS/PV - SR 4	11 CU YD 24 CU YD





MAXIMUM.

GROUP MAILBOX INSTALLATION





ANTI-TWIST PLATE

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FOR DETAILS NOT SHOWN SEE STANDARD DRAWING BP-4.1

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5	6	7	10	13	14	15	23	24	25	26	01/STR/PV	02/NHS/PV	03/S<2/PV	04/STR/BR	05/NHS/BR		EXT	TOTAL		
										36			36			202	30500	36	ET	CONCRETE MEDIAN R
										4			4			202	32000	4	FT	CURB REMOVED
				25							19	4	2			209	72051	25	MILE	PREPARING SUBGRAD
			67								32	11	24			209	80000	67	EACH	GRADING MAILBOX AF
										5			5			511	53100	5	SY	CLASS QC2 CONCRET
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14										4	7	.3	4			623	39500	14	FACH	MONUMENT BOX ADJI
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	1.170										1.017	01	70			051	010.40	1.170		
	1,176										1,013	91	12			251	01042	1,176		PARTIAL DEPTH PAVE
	250			225 767							162 054	45 980	17 733			253	02000	225 767	SY	PAVEMENT REPAIR
				2.257							1.620	460	177			254	01600	2,257	SY	PATCHING PLANED SU
				20,319							14,585	4,138	1,596			407	10000	20,319	GAL	TACK COAT
				0.757							7 000	1.070	707			440	10500	0.757	014	
				9,151							1,022	1,972	763			442	10500	9,757	CY	ASPHALT CONCRETE
			67	1,199							32	195	02 24			617	10100	67	CY	COMPACTED AGGREGA
			0/	25							19	4	2			618	41000	25	MILE	EDGE LINE, RUMBLE
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					893						571	124	198			621	00100	893	EACH	RPM
					893						571	124	198			621	54000	893	EACH	RAISED PAVEMENT M
					20.6						19.3		1.3			642	00104	20.6	MILE	EDGE LINE, 6", TYPE
					0.87						9.65	1.24	0.89			642 642	00204	0.87	MILE MILE	CENTER LINE, 6", TYPE
					11.10						0.00	1.2 1	0.00			0.12	00300	11.10	MILL	
					3,365						540	920	1,905			644	00400	3,365	FT	CHANNELIZING LINE,
					555						347	118	90			644	00500	555	FT	STOP LINE
					2,213						331	68	1,814			644	00700	2,213	FT	TRANSVERSE/DIAGON
					 						4	20	12			644	01300	35	EACH EACH	LANE ARROW
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							13							13		202	23000	13	SY	PAVEMENT REMOVED
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										2					2	512	10300	2	SY	SEALING CONCRETE E
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DESCRIPTION	SEE SHEET NO.	CALCULATED JWS CHECKED CAD
2010/01/14		
ROADWAY EMOVED		
E FOR SHOULDER PAVING, AS PER PLAN	5	
PPROACHES		
e, MISC. (NOADWAT MEDIAN NETAIN)		
ISTED TO GRADE		
YSTEM, SINGLE	10	
ISIEM, DOODLE	10	
DRAINAGE		
ED TO GRADE		
DAVENENT		
EAVENELINI MENT REPAIR (ASPHAI T CONCRETE BASE)		
		×
ASPHALT CONCRETE (1.50 INCHES)		
IRFACE		ŝ
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SURFACE COURSE, 9.5 MM, TYPE A (448)		٦ ١
TE ((1.5" AVG DEPTH FOR AGGREGATE SHOULDERS)		S
TE (FOR MAILBOX APPROACHES)		
STRIPE (ASPHALT CONCRETE)		
TRAFFIC CONTROL		Ř
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ARKER REMOVED		Z
1		5
1		
8″		
AL LINE		
ROW		
TRAFFIC SIGNALS		
PER PLAN	15	
STRUCTURE REPAIR (ERT-4-2.56)		
FOR REUSE		
ASPHALT CONCRETE PAVEMENT JOINTS		
SURFACE COURSE, 9.5 MM, TYPE A (448), AS PER PLAN (PG 64-22)	6	
ING		
STRUCTURE REPAIR (ERI-4-3.07)		
BRIDGE DECKS WITH HMWM RESIN		
TURE REMOVED. AS PER PI AN	.9	α –
E, MISC.: (STRUCTURE MEDIAN REPAIR)	9	800
BRIDGE DECKS WITH HMWM RESIN		0.0
	26	+ .
DEVICE	20	74
RARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	9	R H
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				S	SHEET NUM	И.							PART.	-		ITEM	ITEM	GRAND		
5	6	7	10	13	14	15	23	24	25	26	01/STR/PV	02/NHS/PV	03/S<2/PV	04/STR/BR	05/NHS/BR	11 L W	EXT	TOTAL	UNIT	
		120									60	10	30	10	10	614	11110	120	HOUR	I AW ENEORCEMENT OF
		84									66	8	10	10	10	614	12460	84	EACH	WORK ZONE MARKING
		100									60	20	20			614	13000	100	CY	ASPHALT CONCRETE F
					21.76						19.3	1.16	1.3			614	21100	21.76	MILE	WORK ZONE CENTER L
					555						347	118	90			614	26610	555	FT	WORK ZONE STOP LIN
											LS	LS	LS	LS	LS	610	11000		MAITH	MAINTAINING TRAFFIC
											1	15	15	15	1	623	10000	15	1/11/1	CONSTRUCTION LAYO
											15	LS	15	15	15	624	10000	15		MOBILIZATION
											2.5	23	2.5	2.5	23	021	10000	2.5		MODILIZATION
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DESCRIPTION	SEE SHEET NO.	CALCULATED JWS CHECKED CAD
MAINTENANCE OF TRAFFIC		
T OFFICER WITH PATROL CAR FOR ASSISTANCE		
ING SIGN		
TE FOR MAINTAINING TRAFFIC		
EK LINE, ULASS I, 642 PAINT		-
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									254	254		407	442	442	209			617	618	ATED S (ED
FUNDING SPLIT	COUNTY	ROUTE	LOG PA TC LOG PA	OINT) OINT	LEN	GTH	AVERAGE WIDTH	PAVEMENT AREA	PA VEMENT PLANING, ASPHAL T CONCRETE (1.50 INCHES)	PATCHING PLANED SURFACE		TACK COAT @ 0.09 GAL/SY	ASPHALT CONCRETE SURFACE COURSE, 9.5MM, TYPE A (448) AS PER PLAN (1.50" THICK)	ASPHAL T CONCRE TE SURFACE COURSE, 9.5MM, TYPE A (448) AS PER PLAN (SAFETY EDGE)	PREPARING SUBGRADE FO SHOULDER PAVING, AS PER PLAN	R AGGR SHOULD	REGATE VER WIDTH	COMPACTED AGGREGATE	EDGE LINE, RUMBLE STRIPE (ASPHALT CONCRETE)	
					_												CD		-	
			STRAIGH	'T LINE 4GE	MUE	ET	ET		CV.	cv		CAL	CY	CY	MILE			1.50 THICK AVE.	MILE	-
					MILE	<i>г 1</i>	<i>г</i> 1	30 10	51	51		GAL			IMILE	<i>F 1</i>			IMILE	-
01/STR/PV	HIR	4	6.68	8 78	1.70	8 976	26.0	25 931	25 931	259		2 334	1.080	48	3.40	2.0	2.0	166.2	3.40	-
01/STR/PV	FRI	4	0.00	0.17	0.17	898	26.0	2 594	2 594	200		233	108	5	0.34	2.0	2.0	16.6	0 34	
01/STR/PV	FRI	4	0.17	0.33	0.16	845	55.0	5,164	5,164	52		465	215	5	0.32	2.0	2.0	15.6	0.37	\dashv
SUSPEND & I	RESUME FO	L · · R CONCRET	E STRUCTURE	- (ERI-4-(0.33)	0,0														⊢ ∢
01/STR/PV	HUR	4	0.45	0.70	0.25	1,320	66.0	9,680	9,680	97		871	403	7	0.50	2.0	2.0	24.4	0.50	
01/STR/PV	ERI	4	0.70	0.80	0.10	528	39.0	2,288	2,288	23		206	95	3	0.20	2.0	2.0	9.8	0.20	Ĕ
01/STR/PV	ERI	4	0.80	2.57	1.77	9,361	26.0	27,043	27,043	270		2,434	1,127	51	3.55	2.0	2.0	173.4	3.55	
01/STR/PV	ERI	4	2.57	2.59	0.02	100	40.0	444	444	4		40	19	1	0.04	2.0	2.0	1.9	0.04	
01/STR/PV	ERI	4	2.59	3.02	0.43	2,260	26.0	6,529	6,529	65		588	272	12	0.86	2.0	2.0	41.9	0.86	
01/STR/PV	ERI	4	3.02	3.07	0.04	238	32.0	846	846	8		76	35	1	0.09	2.0	2.0	4.4	0.09	- H
SUSPEND & I	RESUME FO	R CONCRET	E STRUCTURE	- (ERI-4-3	3.07)	11	I													<u> </u>
01/STR/PV	ERI	4	3.07	3.12	0.05	253	32.0	900	900	9		81	38	1	0.10	2.0	2.0	4.7	0.10	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
01/STR/PV	ERI	4	3.12	3.66	0.54	2,851	26.0	8,236	8,236	82		741	343	15	1.08	2.0	2.0	52.8	1.08	
01/STR/PV	ERI	4	3.66	3.73	0.07	370	46.0	1,891	1,891	19		170	79	2	0.14	2.0	2.0	6.9	0.14	
SUSPEND & I	RESUME FO	R CONCRET	E STRUCTURE	- (ERI-4-3	3.74)														0.00	ΪШ
01/STR/PV	ERI	4	3.80	4.04	0.24	1,267	53.0	7,461	7,461	75		671	311	7	0.48	2.0	2.0	23.5	0.48	Σ
01/STR/PV	ERI	4	4.04	7.95	3.91	20,645	26.0	59,641	59,641	596		5,368	2,485	112	7.82	2.0	2.0	382.3	7.82	
03/S<2/PV	ERI	4	7.95	8.24	0.29	1,531	26.0	4,423	4,423	44		398	184	8	0.58	2.0	2.0	28.4	0.58	Ā
03/S<2/PV	ERI	4	8.24	8.40	0.16	845	50.0	4,694	4,694	47		422	196	5	0.32	2.0	2.0	15.6	0.32	_ L
SUSPEND & I	RESUME FO	R CONCRET	E STRUCTURE	- (ERI-4-8	8.43)											2.0	2.0	0.0		
03/S<2/PV	ERI	4	8.46	8.60	0.14	760	50.0	4,222	4,222	42		380	176	4	0.29	2.0	2.0	14.1	0.29	
SUSPEND & I	RESUME																			
03/S<2/PV	ERI	4	9.10	9.34	0.24	1,267	26.0	3,660	3,660	37		329	153	7	0.48	2.0	2.0	23.5	0.48	
02/NHS/PV	ERI	4	9.34	9.73	0.39	2,059	26.0	5,948	5,948	59		535	248	11	0.78	2.0	2.0	38.1	0.78	
02/NHS/PV	ERI	4	9.73	10.80	1.07	5,650	42.0	26,367	26,367	264		2,373	1,099	31	2.14	2.0	2.0	104.6	2.14	
02/NHS/PV	ERI	4	10.08	10.17	0.09	475	54.0	2,850	2,850	29		257	119	3	0.18	2.0	2.0	8.8	0.18	_
02/NHS/PV	ERI	4	10.17	10.59	0.42	2,218	42.0	10,351	10,351	104		932	431	12	0.84	2.0	2.0	41.1	0.84	
01/STR/PV	EXTRA ARI	EA FOR IN	TERSECTIONS					1,474	1,474	15		133	61							_
02/NHS/PV	EXTRA ARI	EA FOR IN	TERSECTIONS					147	147	1		13	6							
03/S<2/PV	EXTRA ARI	EA FOR IN	TERSECTIONS					179	179	2		16	7							
01/STR/PV	EXTRA ARI	EA FOR PA	VED DRIVES					1,152	1,152	12		104	48							000
02/NHS/PV	EXTRA ARI	EA FOR PA	VED DRIVES					207	207	2		19	9							0,0
03/S<2/PV	EXTRA ARI	EA FOR PA	VED DRIVES					315	315	3		28	13							
01/STR/PV	EXTRA ARI	EA FOR EX	. & PR. MAILE	BOX APPRO	DACHES			780	780	8		70	33							4
02/NHS/PV	EXTRA ARI	EA FOR EX	. & PR. MAILL	BOX APPRO	DACHES			110	110	1		10	5							
03/S<2/PV	EXTRA ARI	EA FOR EX	. & PR. MAILL	BOX APPRO	DACHES			240	240	2		22	10			_				⊥ <u>∓</u> ⊡
																				4
	SUB-1	OTAL FOR	PLAN SPLIT	(01/STR/PV	()				162,054	1,620		14,585	6,752	270	19	28	28	924	19	4
	SUB-T	OTAL FOR	PLAN SPLIT	(02/NHS/P)	V)				45,980	460		4,138	1,916	56	4	8	8	193	4	
	SUB-1	OTAL FOR	PLAN SPLIT	(03/S<2/P	V)				17,733	177		1,596	739	24	2	8	8	82	2	$-\left(\begin{array}{c} 13\\ 22\end{array}\right)$
	TOTAL	CARRIED	TO THE GENER	RAL SUMMAR	RY				225,767	2,257		20,319	9,407	350	25	46	46	1,199	25	26

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												AUXI	ILIARY	& LONG	LINE	MARKINGS	5										: WLATED
														61	4			642,	TYPE 1				6	44			CALC
														~ ~ .	Έ,				CENTE	R LINE		AUX	ILIARY MAI	RKINGS (7	740.04)		
AUXILIARY & LONG LINE MARKI 11 12 13 14 14 14 15 14						()			IANE	ARROW																	
176			~	>> \	MIL									J,	OP 2 P.		6	0 [®]		17	ZINC		NE N			VOI.	
S SI	2	17E	Ì	\leq	4									E C SS NT	57. 642		ίE,	νE,	EN	11 117	JNE VE	INE	RSI			NC 1	
JNI.		201	71/1	011	MH									CON 201	NE 11,		T IV	L II	D I VAL	0174 1014	UNE NNE	βΓ	SVE	L	L .	EDU	
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Εſ				.,										INE INE	RK AS:		ED	L 4	EC S	ΡA	0		TR	7	R	ANE	
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			FROM	TO	MILE	E			DESCH	RIPTION				MILE	FT		MILE	MILE	MILE	MILE	FT	FT	FT	EACH	EACH	EACH	
DI/STR/PV HU	IR	4	6.68	8.38	1.70	2								3.40	24		3.40		1.4.9	1.70		24					_
DI/STR/PV FR	71	4	0.00	1.00	1.00	2								2.00	48		2 00	0.87	2.17	1.00		48				4	
I/STR/PV ER	71	4	1.00	2.00	1.00	2								2.00	10		2.00	0.07	0.25	1.00		10				1	_
IZSTRZPV ER		7	2.00	3.00	1.00	2								2.00	21		2.00		0.25	1.00		21					
		7	2.00	1.00	1.00									2.00	29		2.00		1.11	1.00	E 40	29	771	7			_
		4	1.00	4.00 E.00	1.00									2.00	100		2.00		1.11	1.00	540	100		5			
		4	4.00	5.00	1.00									2.00	100		2.00		0.09	1.00		100					_
NI/STR/PV ER		4	5.00	6.00	1.00									2.00	52		2.00		0.56	1.00		52	_				_
DI/STR/PV ER	71	4	6.00	7.00	1.00									2.00			2.00		0.25	1.00							_
M/STR/PV ER	71	4	7.00	7.95	0.95	5	_							1.90	63		1.90		0.41	0.95		63	_				
3/S<2/PV ER	71	4	7.95	8.00	0.05	5								0.10			0.10		0.10	0.05							_
3/S<2/PV ER	71	4	8.00	8.60	0.60	0								1.20	90		1.20		1.60	0.60	1905	90	1,814	6	6		
SUSPEND & RE	ESUME		8.60	9.10	0.50	0																					
3/S<2/PV ER	71	4	9.10	9.34	0.24	4													0.06	0.24							
2/NHS/PV ER	71	4	9.34	10.00	0.66	6									12				0.93	0.66		12	68	2			
2/NHS/PV ER	71	4	10.00	10.58	0.58	8								1.16	106				1.38	0.58	920	106		14	4		
																											_
	01/	STR/I	PV SUB-	TOTAL										19.30	347		19.30	0.87	7.68	9.65	540	347	331	3		4	-
	02/	NHSZ	PV SUB-	-TOTAI										1,16	118				2.31	1.24	920	118	68	16	4		_
	0.3/	15(2/	PV SUB-	-TOTAL										1.30	.90		1.30		1.76	0.89	1.905	90	1.814	6	6		_
TC	OTALS	5 TO (GENERAL	SUMMAR	77									21.76	555		20.60	0.87	11.75	11.78	3.365	555	2.213	25	10	4	-
												F	RAISED	PAVEME	NT MA	ARKERS											
							621	621	PRISI	MATIC RE	TRO-REFL	ECTOR T	TYPES	T							DETA	AIL D	ESCRIPTIO	N			_
7				N			ED		ONE WAY		TWC)-WAY									1	М	ULTILANE	UNDIVIDE	D TYPICA	L SPACING	
176	~			l'SL			10		ONE -WAT			6									2	T.	APERED AC	CEL. LAN	VE		
S S	NTN			NOI		_AIL	SED	Wc			RED	RE	UE				DEMADKS				3	D	ECELERATI	ON LANE			
NIC	100		Š	_A T.		DE1	RAI IVE	RF	ITE	NO NO			, Bi				NLWANKS				4	P.	ARALLEL A	CCEL LAI	VE		
So Lo Lo Lo Lo Description 01/STR/PY HBR 4 6.69 8.38 1.70 Description 01/STR/PY ERI 4 0.00 1.00 1.00 Description 01/STR/PY ERI 4 0.00 1.00 1.00 Description 01/STR/PY ERI 4 2.06 3.00 1.00 Description 01/STR/PY ERI 4 2.06 3.00 1.00 Description 01/STR/PY ERI 4 3.00 8.00 1.00 Description 01/STR/PY ERI 4 7.00 7.55 0.95 Description 01/STR/PY ERI 4 7.00 7.55 D.95 Description 01/STR/PY ERI 4 7.95 D.95 Description Description 02/STR/PY ERI 4 9.00 0.50 Description Description 02/STR/PY ERI 4 </td <td>TE</td> <td>NO.</td> <td>Ш,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5</td> <td>М</td> <td>ULTILANE .</td> <td>DIVIDED/</td> <td>'EXPRESSV</td> <td>VAY</td> <td></td>											TE	NO.	Ш,								5	М	ULTILANE .	DIVIDED/	'EXPRESSV	VAY	
ч.							<i>™</i> ∠			77	MH	EL I	DL L								6	S	TOP APPR	DACH			
			FA	ROM	TO		EACH	EACH	EACH												7	2	LANE APP	R. WITH	TURN LAN	E	
01/STR/PV	HUR		4 6	.68 6	5.86	6	21	21	16	5				STOP APPI	ROACH @	US 20					8	T.	hrough af	PROACH			
01/STR/PV	HUR		4 6.	.86 7	7.82	GAP	15	15		15				CONTINUO	US ROUT	E TREATMENT					9	3	LANE APP	R. WITH	TURN LAN	ΙE	
01/STR/PV	HUR	4	4 7.	.82 8	3.22	6	34	34	24	10				STOP APPI	ROACHES	e SR 113					10) 3	LANE DIVI	DED TO .	2 LANE TI	RANSITION	
01/STR/PV	HUR		4 8.	.22 8	3.38	GAP	5	5		5				CONTINUO	US ROUT	E TREATMENT					11	3	LANE UND	IVIDED T	O 2 LANE	TRANSITION	
01/STR/PV	ERI	4	4 0.	.00 0	0.16	GAP	11	11		11	0			CONTINUO	US ROUT	E TREATMENT					12	° 7	WO LNAE N	iarrow e	BRIDGE		
01/STR/PV	ERI		4 0	.16 0	.82	11	91	91		42	49			2-4 LANE	TRANSIT	ION & 4-LANE	OVER R.R.				13	7 T	WO WAY LE	FT TURN	' LANE		
01/STR/PV	ERI		4 0	.82 4	1.50	GAP	209	209		195	14			CONTINUO	US ROUT	E TREATMENT					14	1 0	NE LANE B	RIDGE			
01/STR/PV	ERI		4 4	.49 _4	1.83	8	22	22		22				THRU APPE	ROACHES	@ SR 99					15	H	ORIZONTAL	. CURVE			
01/STR/PV	ERI		4 4	.83 7	7.75	GAP	136	136		136				CONTINUO	US ROUT	E TREATMENT					16	S H	ORIZONTAL	CURVE ,	ALT.		
01/STR/PV	ERI		4 7.	.75 7	7.95	6	27	27	16	11				STOP APPI	ROACHES	@ BOGART RD	•				17	s S	TOP APPRO	DACH ALT	г. <u> </u>		
03/S<2/PV	ERI		4 7.	.95 8	3.15	6	27	27	16	11				STOP APPI	ROACHES	@ BOGART RD					18	F.	IRE HYDRAI	N7			
03/S<2/PV	ERI		4 8	.15 8	3.60	11	171	171	130	25	16			2-4 LANE	TRANSIT	IONS @ SR 2					GAI	P C	ENTER LIN	E AT 80	FT. TYP.		
02/NHS/PV	ERI	4	4 9	.69 10	2.59	7,13	124	124		112	12			CLLTO AND	D TURN L	ANES						N	OTES:				
	01/5	STR/F	PV SUB-	TOTAL		, -	571	571		_												D	THRU LAN	ES SHALL	. BE STRI	PED TO MATCH	
	02/	NHS/F	PV SUB-	TOTAL			124	124														Ε.	XISTING WI	DTHS AC	CORDING	TO TC-73.10.	
	03/	S<2/F	PV SUB-	TOTAL			198	198														2.	FOR ALL	WORK ZC	DNE MARKI	INGS, THE 642	14
TC	OTALS	TO C	SENERAL	SUMMAR	Ŷ		893	893														P.	AINT USED	SHALL B	E TYPE 1.	•	

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ITEM 632- DETECTOR LOOP, AS PER PLAN

AN ESTIMATED QUANTITY OF ITEM 632, DETECTOR LOOP, AS PER PLAN, HAS BEEN PROVIDED FOR THE PURPOSE OF REPLACING DAMAGED DETECTOR LOOPS AND/OR UPGRADING DETECTOR LOOPS TO IMPROVE MOTORCYCLE DETECTION. IT IS IMPERA-TIVE THAT REPLACEMENT OF DETECTOR LOOPS BE INSTALLED AND FULLY FUNCTIONAL IN THE SHORTEST POSSIBLE TIME. THE CONTRACTOR SHALL HAVE REPLACEMENT DETECTOR LOOPS INSTALLED AND FULLY FUNCTIONAL WITHIN 7 CALENDAR DAYS OF DESTRUCTION OF THE EXISTING DETECTOR LOOPS.

THE CONTRACTOR SHALL NOTIFY MATT BLANKENSHIP, ODOT DISTRICT 3 ROADWAY SERVICES MANAGER, (PHONE 419-207-7045) 5 WORKING DAYS IN ADVANCE OF ANY PLANING OPERATIONS OR PAVEMENT REPAIR WORK. THIS NOTIFICATION IS NEEDED FOR DISTRICT 3 TO SCHEDULE TEMPORARY SIGNAL TIMING MODIFICATIONS FOR THE TIME PERIOD WHEN THE DETECTOR LOOPS ARE OUT OF OPERATION. THE CONTRACTOR SHALL THEN RENOTIFY MR. BLANKENSHIP WITHIN 2 WORKING DAYS AFTER THE NEW DETECTOR LOOPS ARE REPLACED SO THAT HE CAN RESCHEDULE DISTRICT CREWS TO RESTORE SIGNAL TIMINGS TO THE ORIGINAL SETTINGS. IN ADDITION, THE CONTRACTOR SHALL ALSO NOTIFY CRAIG DEVORE, ODOT DISTRICT 3 PLANNING AND ENGINEERING DEPT. (PHONE 419-207-7169) WHEN THE NEW LOOPS ARE INSTALLED.

FAILURE TO COMPLY WITH THE ABOVE STATED REQUIREMENTS WILL RESULT IN THE ASSESSMENT OF A DISINCENTIVE FEE OF \$500.00 PER DAY TO THE CONTRACTOR FOR EACH CALENDAR DAY BEYOND THE SPECIFIED LIMIT.

THE NEW DETECTOR LOOPS SHALL BE PLACED PER THE PLAN DETAILS AFTER THE PLANING AND PAVEMENT REPAIR OPERATIONS ARE COMPLETED WITHIN THE AFFECTED AREAS. THE DETECTOR LOOPS SHALL NOT BE CUT INTO THE SURFACE COURSE.

IN ADDITION TO THE REQUIREMENTS OF CMS 632.11, THE CONTRACTOR SHALL PROVIDE A POSITIVE AND EFFECTIVE MEANS FOR REMOVAL OF SOLID RESIDUE RESULTING FROM THE DRY SAW BLADE CUTTING OF LOOP DETECTOR SLOTS IN THE PAVEMENT. THE RESIDUE SHALL BE REMOVED BY VACUUM OR OTHER EFFECTIVE MEANS, BEFORE IT IS BLOWN BY TRAFFIC ACTION OR WIND. RESIDUE FROM DRY CUTTING SHALL NOT BE REMOVED BY COMPRESSED AIR. AS AN ALTERNATE, THE CONTRACTOR MAY USE WET CUTTING.

LOOP DETECTOR WIRE TO LEAD-IN CABLE SPLICES WITHIN EPOXY ENCAPSULATED SPLICE ENCLOSURES SHALL BE JOINED BY AN APPROVED CONNECTOR AND SOLDERED PER CMS 632.23 & 725.15. ALL COSTS ASSOCIATED WITH THE SOLDERED SPLICE CONNECTION AND EPOXY SPLICE KIT SHALL BE INCLUDED WITH THE DETECTOR LOOP.

IF THE PULL BOX IS NOT SPECIFIED IN THE PLANS, THE SPLICE SHALL BE MADE IN THE FIRST ENTERED POLE OR PEDESTAL, EXCEPT WHERE THE CONTROLLER CABINET IS MOUNTED ON THE POLE OR PEDESTAL, IN WHICH CASE THE LOOP WIRES SHALL BE ROUTED DIRECTLY INTO THE CABINET UNLESS SPECIFIED DIFFERENTLY IN THE PLANS. LOOP DETECTOR WIRE ROUTED THROUGH CONDUIT, PULL BOXES, POLES, AND PEDESTALS SHALL BE TWISTED PER CMS 632.23.

FURNISH ALL MATERIALS ACCORDING TO THE DEPARTMENT'S OUALIFIED PRODUCTS LIST (OPL).

SEE DETAILS ON THIS SHEET FOR ADDITIONAL REQUIREMENTS.

PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID PER EACH FOR ITEM 632, DETECTOR LOOP, AS PER PLAN.

ITEM 632 - DETECTOR LOOP, AS PER PLAN	30 EACH	(01/STR/PV)
ITEM 632 - DETECTOR LOOP, AS PER PLAN	22 EACH	(03/S<2/PV)

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CALCULATED JWS CHECKED CAD	
LOOP DETECTOR DETAILS GENERAL NOTES	
HUR-4-6.68 ERI-4-0.00	
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SAWING AND SEALING ASPHALT CONCRETE PAVEMENT JOINTS

ASPHALT CONCRETE SURFACE COURSE, 9.5MM, TYPE A (448), AS PER PLAN

202

409

442

512

FT

CY

SY

TYPE 3 WATERPROOFING

114

13

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EXISTING B17-48 PRESTRESSED BOX BEAMS



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NOTES: 1.) PLANE AND PAVE APPROACH SLABS 1.5" SAME AS ROADWAY 2.) SEAL ENTIRE DECK WITH HMWM RESIN

LEGEND:

Indicates sealing concrete bridge decks with how resin

	ESTIMATED OUANTITIES - ERI-4-3.07 - (04/STR/BR)					
ITEM	OUANTITY	UNIT	DESCRIPTION			
512	191	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN			

CALCULATED JWS CHECKED CAD
STRUCTURE DETAILS ERI-4-3.07
HUR-4-6.68 ERI-4-0.00
24 26



NOTES:

1.) BEARING RESET - REFURBISH & RESET ALL 10 R75 ROCKER BEARINGS AT FORWARD ABUTMENT & PROVIDE SHIMS 2. SHIM AS NECESSARY TO ALLOW ELEVATION OF EXPANSION JOINT ARMOR ON DECK SIDE TO MATCH ELEVATION OF JOINT ARMOR ON BACKWALL SIDE.

ESTIMATED QUANTITIES - ERI-4-8.43 - (05/NHS/BR) ITEM OUANTITY UNIT DESCRIPTION SPECIAL - REFURBISH AND RESET BEARING 516 10 EACH 516 JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN LS

SHIM AS NEEDED

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ITEM	OUANTITY	UN/T	FUNDING	DESCRIPTION
202	3	SY	05/NHS/BR	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
202	36	SY	03/S<2/PV	CONCRETE MEDIAN REMOVED
202	4	FT	03/S<2/PV	CURB REMOVED
511	5	СҮ	03/S<2/PV	CLASS OC2 CONCRETE, MISC.: (ROADWAY MEDIAN REPAIR)
511	2	CY	05/NHS/BR	CLASS OC2 CONCRETE, MISC.: (STRUCTURE MEDIAN REPAIR)
512	2	SY	05/NHS/BR	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN
516	20	FT	05/NHS/BR	STRUCTURAL JOINT OR JOIN SEALER, MISC.: REMOVE AND REPLACE SEALING STRIP OR REPLACE IN-KIND
609	4	FT	03/S<2/PV	CURB, TYPE 2-A

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