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Dist 3

3/7/2019

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STATE OF OHIO DEPARTMENT OF TRANSPORTATION

RIC-42-13.13

MADISON TOWNSHIP **MIFFLIN TOWNSHIP** MILTON TOWNSHIP

ASHLAND COUNTY **RICHLAND COUNTY**

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19

20-26

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	ROADWAY ENGINEERS SEAL:		
DERGROUND UTILITIES		STANDARD CONSTRUCTION DRAWINGS	SUPPLEMENTAL SPECIFICATIONS
ACT BOTH SERVICES TWO WORKING DAYS BEFORE YOU DIG.	NICHOLAS	BP-3.1 7/18/14 MT-95.30 7/21/17 TC-41.20 10/18/13 BP-4.1 7/19/13 MT-96.11 1/20/17 TC-42.20 10/18/13	800 1/18/19 830 1/17/14 832 10/19/18
Call Before You Dig	R. FOSTER	M1-38.20 1/15/16 10-32.10 10/16/15 CB-2.3 1/15/16 MT-96.26 7/19/13 TC-52.20 1/19/18 M1-97,10 7/18/14 TC-61.30 1/20/17 1/20/17	856 10/20/17 961 7/15/16
SBRVICE (Non-members must be called directly)		DM-4.3 1/15/16 MT-97.12 1/20/17 10-65.10 1/17/14 DM-4.4 1/15/16 MT-99.20 7/21/17 TC-65.11 7/21/17 MT-101.90 7/21/17 TC-71.10 1/19/18	······
IDERGROUND PROTECTION SERVICE 1-800-925-0988	SSIONAL ENGLISH	MGS-1.1 1/19/18 MT-105.10 7/19/13 MGS-2.1 1/19/18 MGS-4.2 7/19/13	SPECIAL PROVISIONS
	SIGNED: Nicholas R Justa	RM~1.1 7/18/14	
	DATE: 12/6/18		

TRAFFIC SIGNAL NOTES TRAFFIC SIGNAL DETAILS

	1
PROJECT DESCRIPTION	
THIS PROJECT WILL INCLUDE PAVEMENT REPAIRS, PAVEMENT PLANING, RESRUFACING WITH ASPHALT CONCRETE, GUARDRAIL REPAIR, STRUCTURE MAINTENANCE AND PAVEMENT MARKINGS.	FEDERAL PROJECT NO. E170849
EARTH DISTURBED AREAS	
PROJECT EARTH DISTURBED AREA: N/A ACRES (MAINTENANCE PROJECT)	
ESTIMATED CONTRACTOR EARTH DISTRUBED AREA: N/A ACRES (NAINTFNANCE PROJECT)	
NOTICE OF INTENT EARTH DISTURBED AREA: N/A ACRES (MAINTENANCE PROJECT)	PID NO. 102957
2016 SPECIFICATIONS	
THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.	UCTION PROJECT NO
I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.	INVOLVEMENT
APPROVED PARTMENT OF DATE DIRECTOR, DEPARTMENT OF TRANSPORTATION	RALLROAD
PLANS PREPARED BY: Ohio Department of Transportation District Three Engineering	RIC-42-13.13
	1 36

0.JECT N 13.13 11L INOIS A VE. SLM 13.13 SLM 13.22 SLM 13.22 SLM 13.23 SLM 13.31 NICHIGAN A VE. SLM 13.31 SLM 13.31 SLM 13.33 SLM 13	SLM 13.75 SLM 13.75 PENNSYL VANIA AVE. STEWART RD.	SLM 13.93 RAMP FROM US 30 SLM 14.00 US 30EB OVERPASS SLM 14.02 SLM 14.02 SLM 14.02 SLM 14.02 SLM 14.02 SLM 14.05 SLM 14.07 SLM 10.7FROM US 30 SLM 10.7FROM US 30	SLM 14.08 RAMP TO US 30 EASTVIEW DR. SPRING LAKE RD.	SLM 15.56 PARADISE VIEW RD. SLM 15.72 WINDSOR RD. SLM 16.04 HILLSIDE MOBILE HOME PARK SIRUCTURE RIC-42-16.32 SIM 16.38 SLM 16.38 FLEMING FALLS RD. SLM 16.81 FLEMING FALLS RD.
PAVEMENT JOINT	PENNSYL VANIA AVE. SLM 13.46 SLM 13.52 PARRY AVE.	SLM 13.94 RAMP TO US 30 SLM 13.95 RAMP TO US 30 SLM 13.96 RAMP FROM US 30	N MCELROY RD. SLM 14.58 UNITY DR. SLM 14.66 UNITY DR. REISER DR. CRIDER RD.	SLM I5.56 LAVER RD. SLM I5.75 CIRCLE DR. SLM 16.32
DESIGN DESIGNATION RIC-42, 13.13-13.96 current adt (2019) 11,500 design year adt (2031) 12,000 design hourly volume (2031) 12,000 directional distribution 51% trucks (24 hour b&c) 4% legal speed 35 mph functional class NHS NC	DESIGN RIC-4, CURRENT ADT (20 DESIGN YEAR ADT DESIGN HOURLY V DIRECTIONAL DIS TRUCKS (24 HOUR LEGAL SPEED DN-INTERSTATE FUNCTIONAL CLAS	UDESIGNATION 2, 13.96–14.81 19)16,000 12031117,000 10LUME (2031)1700 TRIBUTION51% B&C)51% B&C35 MPH 55NHS NON-INTERSTATE	DESIGN DESIGNATION RIC-42, 14.81-16.39 current adt (2019)	DESIGN DESIGNATION RIC-42, 16.39-17.29 CURRENT ADT (2019) 8,800 DESIGN YEAR ADT (2031) 8,900 DESIGN HOURLY VOLUME (2031) 800 DIRECTIOMAL DISTRIBUTION 53% TRUCKS (24 HOUR B&C) 6% LEGAL SPEED 55 MPH ERSTATE FUNCTIONAL CLASS NHS NON-1

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<u>UTILITIES</u>

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

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

CABLE

SPECTRUM CABLE

COMMUNICATION

11534 S.R 511 SOUTH ASHLAND, OH 44805

ASHLAND, OH 44805

ASHLAND COUNTY ENGINEER 1511 CLEVELAND AVENUE

FIRELANDS ELECTRIC CO-OP ONE ENERGY PLACE

NEW LONDON, OH 44851

COLUMBIA GAS OF OHIO

MARATHON ASHLAND PIPELINE

539 SOUTH MAIN STREET

FINDLAY, OH 45840

TRAFFIC ODOT DISTRICT THREE 906 CLARK AVENUE

RICHLAND CITY WASTEWATER

1740 FLEMING FALLS RD MANSFIELD, OH 44903

ASHLAND, OH 44805

MANSFIELD, OH 44903

419.756.6091

419.282.6551

419.282.4281

419.929.1571

419.528.1137

419.421.2211

419.207.7045

419.774.4002

WATER

GAS

1021 N. MAIN ST.

ELECTRIC

VERIZON

COUNTY

1575 LEXINGTON AVENUE MANSFIELD, OH 44901

CABLE ARMSTRONG UTILITIES 100 EAST 2ND. STREET ASHLAND, OH 44805 419.289.0161

CITY CITY OF ASHLAND 206 CLAREMONT AVENUE ASHLAND, OH 44805 419.289.8331

COMMUNICATION AT&T TRANSMISSION 175 ASHLAND ROAD P.O. BOX 3555 MANSFILED, OH 44907 419.755.7956

COUNTY RICHLAND COUNTY ENGINEER 77 NORTH MULBERRY STREET MANSFIELD, OH 44903 419.774.5591

ELECTRIC OHIO EDISON 1717 ASHLAND ROAD MANSFIELD, OH 44905 419.521.6177

GAS COLUMBIA GAS TRANSMISSION 589 NORTH STATE ROAD MEDINA, OH 44256 330.721.4163

SANITARY RICHLAND COUNTY SANITARY 50 PARK AVENUE EAST MANSFIELD, OH 44902 419.774.3548

WATER MADISON WATER DISTRICT 489 INDIANA AVENUE MANSFIELD, OH 44905 419.589.2135

WATER RICHLAND SOIL & WATER CONSERVATION 1495 W. LONGVIEW AVENUE MANSFIELD, OH 44905 419.747.8684

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.

EXISTING PLANS

EXISTING PLANS ENTITLED RIC/ASD-42-16.37/0.00 (2009) AND RIC-42-14.37 (2012) MAY BE INSPECTED IN THE ODOT DISTRICT 3 OFFICE IN ASHLAND. <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.

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.

PROFILE AND ALIGNMENT

PLACE THE PROPOSED ASPHALT CONCRETE OVERLAY TO FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. (PREVIOUS CONSTRUCTION PLANS SHOWING THE ORIGINAL ALIGNMENT AND PROFILE, ARE AVAILABLE FOR INSPECTION AT THE ODOT DISTRICT 3 OFFICE). PLACE THE PROPOSED ASPHALT CONCRETE OVERLAY AS SHOWN ON THE TYPICAL SECTIONS.

PROGRESSION OF WORK

RIC-42-13.13 TO 13.74:

PERFORM SHOULDER RECONSTRUCTION, PLANE 6 FEET WIDE BY 9 INCHES DEEP AND REPAVE 301 IN TWO LIFTS IN THE SAME DAY. THEN MILL OFF 3" INCHES, PLACE OVERLAY FABRIC (60 INCHES WIDE) CENTERED OVER THE JOINT FORMED BY THE SHOULDER RECONSTRUCTION AND PAVE WITH INTERMEDIATE COURSE ON THE SAME DAY. SWITCH SIDES AND PERFORM THE SAME WORK IN THE SAME ORDER. LASTLY PLACE THE SUPFACE COURSE AFTER BOTH SIDES OF THE INTERMEDIATE COURSE ARE DONE.

RIC-42-13.74 TO 16.37

PERFORM PLANING (30 INCHES WIDE BY 2 INCHES DEEP) ON TOP OF BAD WIDENING CRACK LOCATED AT/ NEAR THE RIGHT WHEEL PATH. PLACE OVERLAY FABRIC (30 INCHES WIDE) AND REPAVE THE INTERMEDIATE COURSE ALL IN THE SAME DAY. SWITCH SIDES AND PERFORM THE SAME WORK IN THE SAME ORDER. LASTLY PLACE THE 424 SURFACE COURSE AFTER ALL REPAIRS ARE PERFORMED.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

COORDINATION OF WORK BETWEEN CONTRACTORS

THE CONTRACTOR SHOULD BE AWARE THAT THERE MAY BE OTHER WORK BEING PERFORMED BY A SEPARATE CONTRACT. ASD-42-0.15 IS A BRIDGE REPLACEMENT PROJECT AND IS SCHEDULED TO BEGIN WORK IN THE 2019 CONSTRUCTION SEASON. THIS PROJECT INCLUDES A 60 DAY DETOUR. COORDINATION OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.

<u>CROSSINGS AND</u> PIPES AND UTIL

WHERE PLANS PROV CROSS OVER OR UN CONTRACTOR SHALL LINE AND GRADE BE

IF IT IS DETERMINE EXISTING APPURTEN ELEVATION OR RESS ENGINEER SHALL BE PORTION OF THE P. VARIANCE IN THE E.

IF IT IS DETERMINED EXISTING SEWER OR PLAN, THE ENGINEED ANY PORTION OF TH INTERFERENCE WITH

PAYMENT FOR ALL THE CONTRACT PRIC

<u>SAFETY EDGE</u>

IN ADDITION TO TH SCREED OF THE PA EXTRUDES THE ASP COMPACTED WEDGE STEEPER THAN 40 I THE EXISTING SURF ROADS, DRIVEWAYS PLATE STRIKE OFF.

CONSTRUCTION OF EXISTING WIDTH OF WITH VARYING CONL PREPARATION HAS SAFETY EDGE LOCA

USE THE TRANSTECH GATE, THE ADVANT-APPROVED-EQUAL D RESULTS. CONTACT DEVICES IS THE FOU

TRANSTECH SYSTEM 1594 STATE STREET SCHENECTADY, NY 1 1-800-724-6306 www.transtechsys

CARLSON SAFETY EL 18450 50TH AVENUE TACOMA, WA 98446 253-875-8000

IF ELECTING TO US HAS BEEN USED ON CONSTRUCT A TEST DEMONSTRATE WED SHORT SECTIONS ON TRANSITIONS AND 1

IN ADDITION TO TH PASS 8 TO 12 INCH

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<u>CONNECTIONS TO</u> ITIES	<u>EXISTING</u>	CALCULATED JLL CHECKED NRF
TIDE FOR A PROPOSED (IDER AN EXISTING SEWER LOCATE THE EXISTING FORE STARTING TO LAY	CONDUIT TO BE CONNECTED TO, OR R OR UNDERGROUND UTILITY, THE PIPES OR UTILITIES BOTH AS TO Y THE PROPOSED CONDUIT.	-
D THAT THE ELEVATION VANCE TO BE CONNECTE ULTS IN A CHANGE IN T. NOTIFIED BEFORE STA ROPOSED CONDUIT WHIC XISTING ELEVATIONS.	OF THE EXISTING CONDUIT, OR D, DIFFERS FROM THE PLAN HE PLAN CONDUIT SLOPE, THE RTING CONSTRUCTION OF ANY H WILL BE AFFECTED BY THE	
D THAT THE PROPOSED R UNDERGROUND UTILITY R SHALL BE NOTIFIED E HE PROPOSED CONDUIT H AN EXISTING FACILITY	CONDUIT WILL INTERSECT AN IF CONSTRUCTED AS SHOWN ON THE EFORE STARTING CONSTRUCTION OF WHICH WOULD BE AFFECTED BY THE	
THE OPERATIONS DESCH CE FOR THE PERTINENT	PIBED ABOVE SHALL BE INCLUDED IN 611 CONDUIT ITEM.	
E REQUIREMENTS OF 40 VER THAT CONFINES THU HALT MATERIAL IN SUCH SHAPE PAVEMENT EDGE DEGREES). ENSURE THE L ACE, AND ALLOW FOR A AND OBSTRUCTIONS. D	1.12, ATTACH A DEVICE TO THE E MATERIAL AT THE END GATE AND A WAY THAT RESULTS IN A OF APPROXIMATELY 30 DEGREES (NOT DEVICE MAINTAINS CONTACT WITH UTOMATIC TRANSITION TO CROSS O NOT USE CONVENTIONAL SINGLE	NOTES
SAFETY EDGE CAN BE C GRADED SHOULDER OR DITIONS SHOULD USE SA MADE EVERY REASONABL TIONS.	MITTED AT LOCATIONS WHERE BERM IS LESS THAN 12". PROJECTS FETY EDGE WHERE POSSIBLE. PLAN E ATTEMPT TO IDENTIFY POSSIBLE	ERAL
H SHOULDER WEDGE MAK -EDGER, THE TROXLER S DEVICE THAT PRODUCES INFORMATION FOR THE LLOWING:	ER, THE CARLSON SAFETY EDGE END SAFETSLOPE OR A SIMILAR THE SAME WEDGE CONSOLIDATION SE WEDGE SHAPE COMPACTION	GEN
15, INC. 12304 com	ADVANT-EDGE PAVING EQUIPMENT LLC P.O. BOX 9163 NISKAYUNA, NY 12309-0163 518-280-6090 www.advantedaepavina.com	
DGE END GATE EAST	TROXLER ELECTRONICS LABORATORIES INC. 3008 E. CORNWALLIS RD. RESEARCH TRIANGLE PARK, NC 27709 1-877-TROXLER www.troxlerlabs.com	
E A SIMILAR DEVICE, PI PREVIOUS PROJECTS W SECTION PRIOR TO TH GE COMPACTION TO THE F HANDWORK WILL BE A. TURNOUTS OR OTHERWIS	ROVIDE PROOF THAT THE DEVICE ITH ACCEPTABLE RESULTS OR E BEGINNING OF WORK AND SATISFACTION OF THE ENGINEER. LLOWED WHEN NECESSARY FOR E AUTHORIZED BY THE ENGINEER.	
E REQUIREMENTS OF 40 ES AWAY FROM TAPEREL	11.16, MAKE THE FIRST ROLLER DEDGE. DO NOT ROLL THE TAPER.	
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		13.13
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PAVEMENT CORING INFORMATION

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COUNTY	ROUTE	SLM	ASPHALT	CONCRETE	BRICK	LOCATION	DIRECTION	YEAR
RIC	42	13.43	11.0	0.0	0.0	LWP	SB	2017
RIC	42	13.43	6.0	0.0	0.0	RWP	SB	2017
RIC	42	13.43	6.0	0.0	0.0	SH	SB	2017
RIC	42	14.50	14.0	0.0	0.0	LWP	SB	2017
RIC	42	14.50	12.0	0.0	0.0	RWP	SB	2017
RIC	42	14.50	6.5	0.0	0.0	SH	SB	2017
RIC	42	15.40	8.0	0.0	3.0	LWP	SB	2017
RIC	42	15.40	11.0	0.0	0.0	RWP	SB	2017
RIC	42	15.40	12.0	0.0	0.0	SH	SB	2017
RIC	42	16.70	9.0	0.0	3.0	LWP	SB	2017
RIC	42	16.70	9.0	0.0	3.0	RWP	SB	2017
RIC	42	16.70	6.0	0.0	3.0	SH	SB	2017
RIC	42	17.50	8.0	0.0	0.0	LWP	SB	2017
RIC	42	17.50	8.0	0.0	0.0	RWP	SB	2017
RIC	42	17.50	6.0	0.0	0.0	SH	SB	2017
ASD	42	0.00	13.0		4.0	LWP	NB	2017
ASD	42	0.00	13.0	7.5	4.0	RWP	NB	2017
ASD	42	0.00	7.0	0.0	0.0	SH	NB	2017
ASD	42	0.80	9.0	0.0	4.0	LWP	NB	2017
ASD	42	0.80	10.5	6.0	4.0	RWP	NB	2017
ASD	42	0.80	5.0	0.0	0.0	SH	NB	2017
ASD	42	1.70	11.5		4.0	LWP	NB	2017
ASD	42	1.70	13.0	5.0	4.0	RWP	NB	2017
ASD	42	1.70	12.0		4.0	SH	NB	2017
ASD	42	3.66	14.0	0.0	0.0	Shoulder	SB	2018
ASD	42	3.66	5.5	0.0	0.0	transverse jt	SB	2018
ASD	42	3.66	5.5	4.0	0.0	transverse jt + 2'	SB	2018
ASD	42	3.66	5.5	5.0	0.0	transverse jt + 4'	SB	2018
ASD	42	3.67	5.5	5.0	0.0	midslab	SB	2018

INTERSECTIONS AND DRIVES

RURAL-INTERSECTIONS SHALL BE PLANED AND PAVED TO THE END OF THE TRADII OR AS DIRECTED BY THE ENGINEER. (TO PROVIDE A SMOOTH TRANSITION BETWEEN THE TWO HIGHWAYS, AND TO ELIMINATE WATER POCKETS).

URBAN-INTERSECTIONS SHALL BE PLANED AND PAVED TO THE BACK OF CROSSWALKS OR AS DIRECTED BY THE ENGINEER. (TO PROVIDE A SMOOTH TRANSITION BETWEEN THE TWO HIGHWAYS, AND TO ELIMINATE WATER POCKETS).

EXISTING PAVED DRIVES SHALL BE PAVED SO AS TO PROVIDE A SMOOTH TRANSITION BETWEEN THE HIGHWAY AND THE DRIVE, (DISTANCE FROM EDGE OF ROADWAY MAY VARY AT EACH DRIVE) AS DIRECTED BY THE ENGINEER.

EXISTING AGGREGATE DRIVES SHALL BE PAVED WITH AN APRON AN AVERAGE WIDTH OF 4 FT. THE SLOPE OF THIS APRON SHALL BE THE SAME AS THE ADJACENT PAVEMENT SLOPE OR AS DIRECTED BY THE ENGINEER. ANY GRADING NEEDED TO PAVE THE APRON SHALL BE INCLUDED IN THE RELATED ASPHALT TIEM FOR PAYMENT. ITEM 617 COMPACTED AGGREGATE SHALL BE PLACED ADJACENT TO THIS APRON TO PROVIDE A SMOOTH TRANSITION FROM THE APRON TO THE EXISTING DRIVE, (WIDTH OF THIS 617 APPLICATION MAY VARY) AS DIRECTED BY THE ENGINEER. AN ADDITIONAL QUANTITY OF ITEM 617 HAS BEEN ESTIMATED TO COMPLETE THIS WORK AND IS SHOWN AS AN EXTRA AREA ON THE PAVEMENT & SHOULDER DATA SHEET.

ANY HAZARD OR UNSAFE CONDITION RESULTING FROM THE ABOVE WORK MUST BE CORRECTED IMMEDIATELY. THE CONTRACTOR IS REMINDED OF SECTIONS 105.01, 107.07 & 614.02A OF THE CONSTRUCTION AND MATERIALS SPECIFICATIONS.

THE PAVING DIMENSIONS FOR THE INTERSECTIONS ARE SHOWN IN THE CHART BELOW.



Intersection Name	SLM	FUNDING	A (#1)	B (ft)	C (fft.)	Area (sy)
	12 12	01/8-2/DV	(11.)	26	(IL) 50	22
	10.10	01/5<2/PV	0	20	52	23
	13.22	01/5<2/PV	0	40	52	30
	10.01	01/5<2/PV	0	40	00	30
	10.01	01/352/PV	0	50	60	30
KENTUCKY AVE.	13.39	01/S<2/PV	6	38	40	27
	13.39	01/S<2/PV	6	38	52	28
	13.46	01/S<2/PV	6	50	62	39
PENNSYLVANIA AVE.	13.48	01/S<2/PV	6	46	64	35
PARRY AVE.	13.52	01/S<2/PV	6	68	86	49
STEWART RD.	13.75	01/S<2/PV	36	38	84	213
STEWART RD.	13.75	01/S<2/PV	14	90	120	156
N. MCELROY RD.	14.38	01/S<2/PV	64	40	100	427
UNITY DR.	14.66	01/S<2/PV	15	76	104	142
REISER DR.	14.7	01/S<2/PV	58	22	98	305
EASTVIEW DR.	14.7	01/S<2/PV	20	40	72	113
CRIDER RD.	14.81	01/S<2/PV	12	54	88	87
SPRINGLAKE RD.	14.97	01/S<2/PV	24	48	84	160
LAER RD.	15.56	01/S<2/PV	34	30	74	169
PARADISE VIEW RD.	15.56	01/S<2/PV	30	31	93	172
WINDSOR RD.	15.72	01/S<2/PV	60	60	127	549
CIRCLE DR.	15.75	01/S<2/PV	32	56	249	428
HILLSIDE MOBILE HOME PARK	16.04	01/S<2/PV	26	21	50	89
HILLSIDE MOBILE HOME PARK	16.16	01/S<2/PV	27	30	80	140
FLEMING FALLS RD.	16.38	01/S<2/PV	16	48	68	97
FLEMING FALLS RD.	16.38	01/S<2/PV	34	20	80	151
LAKEWOOD DR.	16.81	01/S<2/PV	16	26	54	63
HALE RD.	17.28	01/S<2/PV	28	20	64	108
BOWEN RD.	17.52	02/STR/PV	40	26	68	178
BOWEN RD.	17.52	02/STR/PV	40	26	72	184
TWP. RD. 1688	0.41	02/STR/PV	20	24	215	195
TWP. RD. 1419	0.65	02/STR/PV	16	24	60	64
TWP. RD. 1455	0.78	02/STR/PV	24	32	88	135
SR. 603	1.01	02/STR/PV	16	56	106	129
SR. 604	1.01	02/STR/PV	16	38	88	97
TWP. RD. 1353	1.34	02/STR/PV	24	26	70	108
TWP. RD. 1323	1.68	02/STR/PV	24	26	70	108
TWP. RD. 1323	1.84	02/STR/PV	20	22	46	67
TWP. RD. 1273	2.3	02/STR/PV	20	24	60	80
TWP. RD. 1356	2.78	02/STR/PV	20	24	72	89
COUNTY RD. 1475	2.92	02/STR/PV	20	28	48	77
COUNTY RD. 1476	2.92	02/STR/PV	32	32	62	149
tal Intersection Areas	1	1			1	5529

Total Intersection Areas

AS PER PLAN

THICKNESS AND WIDTH.

THE DITCH.

WIDE.

FNGINFFR:

01/S<2/PV: SLM 13.13 TO 17.52 SLM 2.92 TO 3.63

ITEM 253 - PAVEMENT REPAIR SLM 13.13 TO 17.52 SLM 2.92 TO 3.63

02/STR/PV: SLM 17.52 TO 18.05 SLM 0.00 TO 2.92

ITEM 253 - PAVEMENT REPAIR SLM 17.52 TO 18.05 SLM 0.00 TO 2.92

04/S<2/PV: SLM 3.63 TO 3.80

ITEM 253 - PAVEMENT REPAIR SLM 3.63 TO 3.80



36

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE

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THE INTENT OF THE PLANING IS TO MILL THE SPECIFIED DEPTH AT THE CENTER OF PAVEMENT AT 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.

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 INFES.

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 FOURTEEN (14) CALENDAR DAYS. FOR EACH CALENDAR DAY BEYOND THE 14 DAYS THAT THE ROADWAY REMAINS EXPOSED TO THE PLANED SURFACE, THE CONTRACTOR WILL BE ASSESSED A DISINCENTIVE FEE OF \$1.000 PER DAY.

DRAINAGE SLOTS SHALL BE CUT INTO THE SHOULDER(S) AT THE LOW POINT OF EACH PLANED SECTION TO PREVENT TRAPPED WATER PUDDLES, AND REFILLED DURING RESURFACING. CUTTING AND FILLING DRAINAGE SLOTS SHALL BE INCLUDED IN PAYMENT WITH ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE.

THE AMOUNT OF GRINDINGS RESULTING FROM THIS WORK MAY PRODUCE UNEXPECTED VOLUMES OF GRINDINGS DUE TO THE EXISTING TRANSVERSE SLOPE OF THE PAVEMENT.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, 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 254 - PAVEMENT PLANING, ASPHALT CONCRETE</u> (CURBED SECTION)

THE INTENT OF THE PLANING IS TO MILL THE SPECIFIED DEPTH ALONG THE CURB CONTINGENT ON THE FOLLOWING: THE MAXIMUM CROSS SLOPE SHALL BE 0.02 WHILE THE MINIMUM CROSS SLOPE SHALL BE 0.01. THE PREFERRED CROSS SLOPE IS 0.016. THE CROWN OF THE PAVEMENT SHALL BE LOCATED BETWEEN THE TRAVELED LANES, OR AS DIRECTED BY THE ENGINEER. THE MILLING DEPTH SHALL BE CONTROLLED FROM THE CURB, TO PRODUCE A CROSS SLOPE IN CONFORMANCE WITH THE ABOVE GUIDELINES.

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 FOURTEEN (14) CALENDAR DAYS. FOR EACH CALENDAR DAY BEYOND THE 14 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, EQUIPMENT, 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.

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 O TO 2 IN.

ITEM 301 - ASPHALT CONCRETE BASE, PG64-22, (9.0") (TWO-LIFTS)

ON THIS PROJECT ITEM 301 COARSE AGGREGATE SHALL HAVE A TWO FACE CRUSH COUNT OF 75% PER ASTM D 5821. MAXIMUM RECLAIMED ASPHALT CONCRETE PAVEMENT SHALL BE 30%. ENSURE THAT A MINIMUM OF 50% OF THE VIRGIN FINE AGGREGATE USED IN THE ITEM 301 IS SAND MANUFACTURED FROM STONE OR AIR COOLED SLAG. THE IN-PLACE BINDER SHALL BE PG64-22.

ALL COSTS TO BE INCLUDED IN ITEM 301 - ASPHALT CONCRETE BASE, PG64-22, (9.0") (TWO-LIFTS).

ITEM 408 - PRIME COAT, AS PER PLAN

THE CONTRACTOR SHALL APPLY ONE COAT OF MC-70 (AS PER SECTION 702) AT A RATE OF 0.40 GAL/SY TO THE COMPLETED AGGREGATE SHOULDER (ITEM 617) AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A SHIELD TO PREVENT THE SPRAYING OR DRIFTING OF LIQUID BITUMINOUS MATERIAL ONTO THE EDGE OF PAVEMENT OR EDGE LINE. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO 107.10 OF THE SPECIFICATIONS.

<u>ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 9.5 MM, TYPE A (446), 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. CHOOSE OPTIMUM BINDER CONTENT AT DESIGN AIR VOIDS OF 3.5%. MINIMUM TOTAL PG BINDER CONTENT IS 6.3 PERCENT. MINIMUM VIRGIN PG BINDER CONTENT IS 5.2 PERCENT. USE A PG 64-22 BINDER. 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 INTERMEDIATE COURSE, 19MM, TYPE A (448), AS PER PLAN</u>

THIS ITEM SHALL BE USED FOR CORRECTION OF CROWN, PROFILE AND ANY OTHER IRREGULARITIES.

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.

REQUIREMENTS OF 442 APPLY EXCEPT AS FOLLOWS: MIX DESIGN: FOR Ndes USE 50 GYRATIONS, FOR Nmax USE 75 GYRATIONS. CHOOSE OPTIMUM BINDER CONTENT AT DESIGN AIR VOIDS OF 3.5%. USF 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.

ITEM 611 - CASTINGS ADJUSTED TO GRADE

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 CONDENCATION WILL BE CONTENTED FOR LARDE ADDITION ADDITIONAL COMPENSATION WILL BE GRANTED FOR LABOR AND MATERIALS REQUIRED TO SATISFACTORILY ADJUST CASTINGS WITHOUT FRAMES.

01/S<2/PV: RIC-42 ITEM 611 - CATCH BASIN ADJUSTED TO GRADE

SLM	DIRECTION	SLM	DIRECTION	SLM	DIRECTION
13.23	NB	14.39	NB	14.5	SB
13.28	NB	14.41	NB	14.42	SB
13.28	NB	14.43	NB	14.4	SB
13.31	NB	14.47	NB	14.33	SB
13.51	NB	14.67	NB	14.18	SB
13.71	NB	14.71	NB	14.09	SB
13.98	NB	14.86	SB	14.06	SB
14.2	NB	14.69	SB	13.79	SB
14.31	NB	14.58	SB	13.62	SB
14.32	NB	14.54	SB	13.24	SB
14.36	NB	14.51	SB		

01/S<2/PV: RIC-42 ITEM 611 - MANHOLE ADJUSTED TO GRADE

12 F.A

32 EA

SLM: 13.16, 13.21, 13.23, 13.27, 13.38, 13.42, 13.46, 13.49, 13.54, 13.76, 13.82, 14.38

<u>ITEM</u>	<u>611 - CA</u>	TCH BA	ASIN NC). 6, A	S PER	<u>PLAN</u>				CALCULATED JLL CHECKED NRF
ALL PO APPLY	EXCEPT A	S MODIF	IED HERII	a <i>ndard (</i> V.	CONSTRU	CTION DRA	WING CB	-2.3		
THE LC BELOW ARE IN BASIN, CONNE PROVIL ADDIT AROUN ALSO OF ITL (448), CORRE AND A. THE CO AROUN CONST INSIDE PERFO AN ES 40 FEL CONDU PROVI COLLA INCIDE 01/S<2 ITEM & ITEM & ITEM &	DCATIONS (TABLE. 1 POOR CC FRAME AI CTION (8", ID THE NEW TO BE INC TO BE INC EM 442 - A AS PER PL SPONDING RE TO BE ONCRETE A ID THE CAS FRUCTION I TIMATED G ET OF ITEI IT, TYPE DED TO RE R IS TO BE IT, TYPE R IS TO BE IT, TYPE CONCRETE A IT, TYPE R IS TO BE IT, TYPE IT, TYPE	OF THIS THERE AR NDDITION ND GRATE JOINT I L DEPTH V CATCH V CATCH V CATCH V CATCH V CATCH SURFACE TAMPED APRON IS STING INS DRAWING WENTS AS CCESSARY WANTI - IO B; 12 FEE CONNECT E PROVII HE COST 42, ASD- H BASIN NDUIT, D NDUIT, ONDUIT, ONDUIT,	WORK IS E CATCH REMOVA I REMOVA I INCLUDI OR 15") S INCLUD CONCRET BASIN, T I THIS IT. CONCRET FOR THE TO THE TO THE STEAD OF CONDUCT OF ITE TO THE DED AT T OF THE A2 NO. 6, AT TYPE B TYPE B TYPE B TYPE B	AT THE BASINS , AL AND D ING A PC AND SAW DED IN TH TE ASPH HE COST EM TOP POR TOP POR TOP POR TOP POR TOP POR TOP TOP TOP TOP TOP TOP TOP TO SATISFAC SATISFAC THE 18 THE SOURCE TO T	APPROX. AT ALL (ISPOSAL RTION C CUTTINC HE COST ALT PAV. S TO RE ORK. THI MEDIATE TION SH. MPACTION TION SH. MPACTION TION OF THICK A. INCHES A SUREMEN ITEM 611 ISF COND G PIPE. VECTION ONDING AN	IMATE SLM DF THESE L OF THE EXIS F THE EXIS F THE EXIS OF THE F PLACE THIS I PLACE THIS I PLACE THIS COURSE, I ALL CONSIS N REQUIRE THE ENGIN ND PLACED AS SHOWN TS PROVID TS PROVID TS PROVID TO OI - 8" CONDU TO OI - 8" CONDU TO OI - 8" CONDUIT I ONDUIT I SCONDUIT I	GIVEN I. .OCATION XISTING STING PI AVEMEN TEM. IF REQUIREL S PAVEM T IS TO 9MM, TYX ST OF TI MENTS A VER. 24 INCH ON STAN ED ARE ONTRACI RDER THE UIT, TYF B IS TE MASO. ONSIDERE TEM 611.	N THE NS THAT CATCH PE T TO TO FILL ENT IS CONSIST PE A HE SAME RE WAIVE HES ALL DARD THE FOR SHAL TOR	- - - - -	L NOTES
11EM 6		JND011,						12 F 1		A K
SLM 13.12	DIRECTION	WIDTH 3'	LENGTH	DEPTH 6'	5LM 14.58	DIRECTION	WIDTH	LENGTH	DEPTH 3'	
13.12	NB	3'	3'	6'	14.58	NB	7'	3'	3'	z
13.17	NB	3'	3'	6'	14.64	NB	4'	3'	3'	ш
13.19	NB	3'	3'	6'	15.54	NB	3'	3'	4'	5
13.22	NB	5'	3'	4'	15.61	NB	3'	3'	3'	
13.34	NB	3'	3'	6'	15.63	NB	3'	3'	3'	
13.38	NB	3'	3'	6' 2'	15.24	SB	3'	4' 2'	5'	
13.42	NB	3'	3'	3'	14.95	SB	3'		2'	
13.44	NB	3'	3'	3'	14.25	SB	3'	3'	2'	
13.46	NB	3'	3'	3'	13.41	SB	3'	3'	3'	
13.48	NB	4'	3'	3'	13.37	SB	3'	3'	3'	
13.95	NB	3'	3'	4'	13.29	SB	3'	3'	3'	
14.24	NB	3'	3 [°]	3 [.]	13.20	SB	3'	3.	4'	
14.20	IND	3	3	3	3.54	SB NB	3 //	3 //	4 2'	
ITEM PRIOR REGIST DOCUM TRANS	<u>623 - C</u> TO THE P TERED SUR MENT THE M PORTATION	CONSTRU LANING (VEYOR SI MEASUREN N FORM 2	UCTION DF PAVEN HALL MEA MENTS ON AVAILABL	LAYOU IENT BEN ISURE TH I AN APP E_FROM	IT STAI	KES AND L OVERHEA CAL CLEAR. DHIO DEPAR TRICT BRID	SURVE	YING TURES, A ND DF CE. THE	1	
MEASU APPRO NEW P, TAKE APPRO THE FO BRIDGE REGIST THAT	REMENTS S VED ODOT AVING HAS VERTICAL OVED ODOT ORM AND S E ENGINEEF TERED SUR PRE-CONST	SHALL BE FORM A BEEN CO CLEARAND FORM. GUBMITTE R. THE F VEYOR W TRUCTION	TAKEN A ND SUBMI DMPLETEL CE MEASU THESE FII D TO THE RECORD S HO HAS T I VERTICA	AT THE L ITTED TC D, A REG. IREMENTS NAL MEAS E PROJEC HALL BE TAKEN TH AL CLEAF	OCATION THE PR ISTERED TAT LOC SUREMEN TENGIN AR THE S MEASU RANCES H	IS INDICATO COJECT ENC SURVEYOR IN TS SHALL L EER AND T STAMP OR IREMENTS A IAVE BEEN	ED ON TI GINEER. A AGAIN S IDICATED BE RECOI HE DISTF SEAL OF AND WILL PRESERV	HE AFTER TH SHALL ON THE RDED ON RICT THE VERIFY 'ED.	E	13,13

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<u>ITEM</u> ALL P	' <mark>611 - CA</mark> PORTION OF	<u>АТСН ВА</u> Г СМЅ 611	ASIN NO 1 AND ST.). 6, A ANDARD (<u>S PER I</u> CONSTRU	PLAN CTION DRA	WING CB	-2.3		
APPLY THE L BELOW ARE II BASIN CONNE PROVI ALSO OF IT. (448), CORRE AND A THE C AROUI CONSI INSIDE PERFC AN ES 40 FE CONDU PROVI COLLA INCIDE 01/SC, ITEM ITEM	<pre> EXCEPT 4 OCATIONS V TABLE. 1 N POOR CC, FRAME AL ECTION (8", TET A NEAT IDE A NEAT I</pre>	AS MODIF OF THIS THERE AR ONDITION ND GRATL ND GRATL I JOINT 1 L DEPTH V CATCH CLUDED IN ASPHALT LAN EXCE SURFACE TAMPED APRON IS STING INS DRAWING MENTS AS CLANTITY M611 - 10 B; 12 FEE ECONNECT SE FROVIN THE COST -42, ASD- H BGSIN, ONDUIT, ONDUIT, ONDUIT, ONDUIT,	IED HERI WORK IS E CATCH . REMOVA FOR 15" S INCLUD CONCRET BASIN, 1 N THIS IT CONCRET FT THE TO THE TO THE STEAD OF CB-2.3. S GATHER FOF THE CONDUCT OF ITU T O THE DED AT 1 OF THE 1 O	N. AT THE BASINS J AL AND D ING A PC AND SAW DED IN TH TE ASPH THE COST EM OF W TE INTER TOP POR MENT. CO SATISFAC B INCHESS THE MEA THE MEA THE MEA THE MEA THE MEA THE MEA THE SCON CORRESH S PER PL	APPROX AT ALL C ISPOSAL RTION C CUTTINC CUTTINC STO RE ORK. THI MEDIATE TION OF THICK A. INCHES A SUREMEN THICK A. INCHES A SUREMEN THICK A. INCHES A SUREMEN THICK A. INCHES A SUREMEN THICK A. SUREMEN THICK A. SUREMEN THICK A. SUREMEN THICK A. SUREMEN THICK A. SUREMEN SUREMEN SUREMEN SUREMEN SUREMEN AN SUREME	IMATE SLM OF THESE L OF THE EXIS G OF THE F OF THE SI EMENT IS I EMENT IS I ENTIFIES E PAVEMEN COURSE, I ALL CONSIS THE ENGIN N REQUIRE THE ENGIN N REQUIRE S SHOWN TS PROVID TS PROVID S SHOWN TS PROVID TS CONDUIT I CONDUIT I	GIVEN I. OCATIOI XISTING STING PI AVEMEN. TEM. IF REQUIREL STOF TI MENTS A VEER. 24 INCH ON STAN ED ARE ON STAN	N THE NS THAT CATCH PE T TO O TO FILL CONSIST PE A HE SAME RE WAIVE HES ALL DARD THE TOR SHAL DARD THE TOR SHAL E UNITS. PE B; 12" NRY D 31 EA. 40 FT 40 FT 40 FT 12 FT	L ED	L NOTES
SIM		WIDTH	LENGTH	ПЕРТН	SIM	DIRECTION	WIDTH	LENGTH	ПЕРТН	RA
13.12	NB	3'	3'	6'	14.58	NB	7'	3'	3'	Ш
13.15	NB	3'	3'	6'	14.60	NB	7'	3'	3'	Z
13.17	NB	3'	3'	6'	14.64	NB	4'	3'	3'	Ш
13.19	NB	3'	3'	6'	15.54	NB	3'	3'	4'	G
13.22	NB	5'	3'	4'	15.61	NB	3'	3'	3'	
13.34	NB	3'	3'	6'	15.63	NB SR	3'	3.	5'	
13.38	NB	3'	3'	3'	14.93	SB	3'	4 3'		
13.43	NB	3'	3'	3'	14.41	SB	3'	4'	2'	
13.44	NB	3'	3'	3'	14.25	SB	3'	3'	2'	
13.46	NB	3'	3'	3'	13.41	SB	3'	3'	3'	
13.48	NB	4'	3'	3'	13.37	SB	3'	3'	3'	
14 74	NB	3 2'	3 2'	4 2'	13.29	SB SR	<u>ז</u> זי	3 2'	<u> </u>	
14.26	NB	3'	3'	3'	13.15	SB	3'	3'	4'	
					3.54	NB	4'	4'	3'	
ITEM PRIOR REGIS DOCUM TRANS MEASU	2 623 – 0 TO THE P TERED SUR MENT THE M SPORTATIO VREMENTS S	CONSTR PLANING (VEYOR S. MEASUREN N FORM S SHALL BF	UCTION DF PAVEN HALL MEA MENTS ON AVAILABL TAKEN A	LAYOU MENT BEN ASURE TH N AN APP LE FROM AT THE I	IT STAL EATH AL E VERTIO ROVED C THE DIST OCATION	KES AND L OVERHEA CAL CLEAR DHIO DEPAF TRICT BRID IS INDICATI	SURVE D STRUC ANCES AN TMENT O GE OFFIO ED ON TH	YING TURES, A ND DF CE. THE HE	4	
APPRO NEW P TAKE APPRO THE F BRIDG REGIS THAT	OVED ODOT AVING HAS VERTICAL OVED ODOT ORM AND S E ENGINEEF TERED SUR PRE-CONS	FORM A BEEN CO CLEARAN FORM. FORM. SUBMITTE R. THE F VEYOR W TRUCTION	ND SUBM OMPLETEL CE MEASU THESE FI D TO THU RECORD S HO HAS V VERTIC	ITTED TO D, A REG JREMENTS NAL MEAS E PROJEC SHALL BE TAKEN TH AL CLEAF	D THE PR ISTERED 5 AT LOC SUREMEN CT ENGIN AR THE S IE MEASU RANCES H	OJECT ENC SURVEYOR ATIONS IN TS SHALL L EER AND T STAMP OR REMENTS A AVE BEEN	GINEER. A AGAIN S DICATED BE RECON HE DISTA SEAL OF NND WILL PRESERV	AFTER TH SHALL ON THE RDED ON RICT THE VERIFY 'ED.	ΙE	13.13

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 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.

03/S<2/PV: SLM 3.67 & 3.74

ITEM 623 - MONUMENT BOX ADJUSTED TO GRADE

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ITEM SPECIAL - PAVEMENT OVERLAY FABRIC COMPOSITE

DESCRIPTION. THIS WORK SHALL CONSIST OF FURNISHING AND INSTALLING PAVEMENT OVERLAY FABRIC COMPOSITE AS SHOWN ON THE PLANS AND AT LOCATIONS DESIGNATED BY THE ENGINEER. THIS FABRIC COMPOSITE MAY BE PLACED ON A MILLED SURFACE.

MATERIALS. PAVEMENT OVERLAY FABRIC COMPOSITE SHALL BE CONSTRUCTED OF LONG CHAIN SYNTHETIC POLYMERS COMPOSED OF AT LEAST 85 PERCENT OF POLYOLEPHINES, POLYESTERS, AND POLYAMIDES BY WEIGHT, SHALL BE RESISTANT TO CHEMICAL ATTACK, MILDEW, ROT, AND ATTACHED TO A FIBERGLASS GRID. COMPOSITE SHALL MEET THE FOLLOWING PHYSICAL REQUIREMENTS:

PROPERTY PAVING FABRIC: GLASGRID CG200 OR APPROVED EQUA	SPECIFICATION AL	TEST METHOD
GRAB TENSILE STRENGTH, LBS. GRAB ELONGATION, PERCENT ASPHALT RETENTION GAL./SY.	90 MIN. 50 MIN. 0.20 MIN.	ASTM D 1682 ASTM D 1682 AASHTO M-288
COMPOSITE ULTIMATE TENSILE STRENGTH (LBS/FT)	MD 6720 MIN XD 13440 MIN	ASTM D 6637
MAXIMUM ELONGATION	LESS THAN 3%	ASTM D 6637
PERCENT OPEN AREA	>50	TEX-621-J "TESTING GEOGRIDS
MELTING POINT MIN (DEGREES F)	1000	ASTM C338
LOSS ON IGNITION %	>15	TEX-621-J "TESTING GEOGRIDS
MASS/UNIT AREA	16.0 OZ. /SY MIN	ASTM D 5261-92

THE COMPOSITE FABRIC SHALL NOT BE EXPOSED TO ULTRAVIOLET RADIATION FOR MORE THAN 7 DAYS. THE FABRIC SHALL BE AT LEAST 60 INCHES BUT NO MORE THAN 150 INCHES IN WIDTH AND FURNISHED IN ROLLS OF APPROXIMATELY 104 YARDS IN LENGTH. THE FABRIC CAN BE CUT TO A 30 INCH WIDTH IF A 30 INCH WIDTH IS SPECIFIED IN THE PLAN.

THE ASPHALT SEALANT SHALL BE PG64-22 MEETING THE REQUIREMENTS OF 702.01.

CERTIFICATION SHALL BE FURNISHED IN ACCORDANCE WITH 101.061 BEFORE THE FABRIC IS PLACED. THE ENGINEER MAY REQUIRE SAMPLING FOR TESTING PURPOSES AS DIRECTED BY THE LABORATORY.

EQUIPMENT. THE CONTRACTOR SHALL PROVIDE EQUIPMENT FOR HEATING AND APPLYING BITUMINOUS MATERIAL. HEATING EQUIPMENT AND DISTRIBUTORS SHALL MEET THE REQUIREMENTS OF 407.

THE MECHANICAL LAYDOWN EQUIPMENT SHALL BE MOUNTED ON A FOUR-WHEELED VEHICLE THAT IS CAPABLE OF DRIVING OVER THE FABRIC WHILE IT IS BEING INSTALLED TO CONTROL THE TENSION ON THE MATERIAL. THE LAYDOWN MACHINE SHALL BE EQUIPPED WITH CLUTCHES TO ADJUST THE ROLL TENSION AND BROOMS TO SMOOTH OUT WRINKLES DURING INSTALLATION. MANUAL LAYDOWN MAY ONLY BE USED IN AREAS INACCESSIBLE TO THE LAYDOWN MACHINE.

CONSTRUCTION DETAILS

1 SURFACE PREPARATION: THE CRACKS AND ENTIRE ROAD SURFACE TO BE TREATED, AND AT LEAST ONE ADDITIONAL FOOT ON EACH SIDE, SHALL BE CLEANED BY SWEEPING, BLOWING, OR OTHER METHODS UNTIL ALL DUST, MUD, CLAY LUMPS, VEGETATION, AND FOREIGN MATERIAL ARE REMOVED ENTIRELY FROM THE PAVEMENT BEFORE THE BITUMINOUS MATERIAL IS APPLIED. SHALL BE EXERCISED TO PREVENT MATERIAL SO REMOVED FROM BECOMING MIXED WITH THE NEW SURFACE. LARGE CRACKS AND POTHOLES SHOULD BE FILLED.

2 APPLICATION OF ASPHALT SEALANT: THE APPLICATION OF THE ASPHALT SEALANT SHALL CONFORM TO THE APPLICABLE PORTIONS OF 407. THE ASPHALT SEALANT SHALL BE UNIFORMLY SPRAYED OVER THE AREA TO BE COVERED BY FABRIC AT A RATE OF 0.25 TO 0.30 GALLON PER SQUARE YARD.

THE QUANTITY APPLIED WILL VARY WITH THE SURFACE CONDITION OF THE EXISTING PAVEMENT (DEGREE OF POROSITY, FOR EXAMPLE). THE FABRIC ALONE, UNDER HEAT OF THE OVERLAY, WILL ABSORB AT LEAST 0.20 GALLON PER SQUARE YARD. WITHIN INTERSECTIONS OR OTHER ZONES WHERE VEHICLE BRAKING IS COMMON PLACE, THE APPLICATION SHALL BE REDUCED 20 PERCENT. THE SEALANT SHALL BE APPLIED TO AN AREA TWO TO SIX INCHES WIDER THAN THE VICALANT SHALL DE AFFICE DE NO AN ANLA FWO TO SIA INCLUS MIDIN THAN THE WIDTHS OF THE FABRIC BEING PLACED, BUT RESTRICTED TO THE AREA OF IMMEDIATE FABRIC LAYDOWN. APPLICATION SHALL BE BY DISTRIBUTOR WITH HAND SPRAYING ALLOWED ONLY WHERE THE DISTRIBUTOR CANNOT BE USED. ASPHALT SPILLS SHALL BE CLEANED FROM THE ROAD SURFACE TO AVOID FLUSHING AND POSSIBLE MOVEMENT AT THESE ASPHALT RICH AREAS.

THE ASPHALT CEMENT USED AS A SEALANT SHALL HAVE DISTRIBUTOR TANK TEMPERATURE BETWEEN 300 DEGREES AND 350 DEGREES F. APPLICATION TEMPERATURE IS NOT CRITICAL AFTER THE ASPHALT IS SPRAYED ON THE PAVEMENT. IF THE FABRIC IS TO BE OVER-SPRAYED, DISTRIBUTOR TANK TEMPERATURES SHOULD NOT EXCEED 350 DEGREES F TO AVOID DAMAGE TO THE FARRIC

3 COMPOSITE FABRIC PLACEMENT: THE COMPOSITE FABRIC SHALL BE PLACED ON THE ASPHALT SEALANT AS SOON AS PRACTICAL AND BEFORE THE TACKINESS OF THE SEALANT IS LOST. THE COMPOSITE SHALL BE PLACED AS SMOOTHLY AS POSSIBLE TO AVOID WRINKLES. IT SHALL BE UNROLLED SO THAT THE SOFT SIDE IS UNWOUND INTO THE SEALANT AND THE GRID SIDE UP, THUS PROVIDING CONTUNE CONFORMER FADDRE AND RAVEMENT DURING THE CONFORMATION OPTIMUM BOND BETWEEN FABRIC AND PAVEMENT DURING THE CONSTRUCTION PROCESS. WRINKLES SEVERE ENOUGH TO CAUSE "FOLDS" SHALL BE SLIT AND LAID FLAT. SMALL WRINKLES, WHICH FLATTEN UNDER COMPACTION ARE NOT DETRIMENTAL TO PERFORMANCE. THE COMPOSITE SHALL BE BROOMED OR SQUEEGEED TO REMOVE AIR BUBBLES AND MAKE COMPLETE CONTACT WITH THE ROAD SURFACE AS RECOMMENDED BY THE FABRIC MANUFACTURER. THE FABRIC SHALL BE LAID STRAIGHT, WITHIN THE SEALANT AREA. MODERATE CURVES CAN BE NEGOTIATED BY STRETCHING THE FABRIC ON THE OUTSIDE OF THE CURVE BY ADJUSTING THE DRAG ON THE BRAKES OF THE LAYDOWN EQUIPMENT. TRANSVERSE JOINTS SHALL BE "SHINGLED" IN THE DIRECTION OF PAVING.

LONGITUDINAL JOINTS SHALL BE MADE BY OVERLAPPING THE FABRIC ONE TO TWO INCHES. TRANSVERSE JOINTS SHALL BE MADE BY OVERLAPPING THE FABRIC MINIMUM OF FOUR INCHES. ADDITIONAL SEALANT (ABOUT 0.20 GAL. PER SQ. YD.) SHALL BE ADDED TO THE JOINTS AS REQUIRED. THE ADDITIONAL SEALANT FOR TRANSVERSE JOINTS MAY BE APPLIED BY HAND SPRAYING OR WITH MOP AND BUCKET IF EXTREME CARE IS TAKEN TO NOT EXCEED THE SPECIFIED RATE.

TO ENHANCE THE BOND OF THE FABRIC WITH THE EXISTING PAVEMENT AND TO SMOOTH OUT ANY WRINKLES FOR FOLDS IN THE FABRIC, THE CONTRACTOR MAY BE REQUIRED TO PNEUMATICALLY ROLL THE FABRIC AFTER IT IS PLACED.

4 TREATMENT OF THE APPLIED COMPOSITE PRIOR TO PLACEMENT OF ASPHALT CONCRETE: TACK COAT THE FABRIC PRIOR TO PLACEMENT OF THE ASPHALT CONCRETE OVERLAY. TACK COAT SHALL BE APPLIED AT A RATE OF 0.02 TO 0.05 GALLON PER SQUARE YARD. PLACEMENT OF THE ASPHALT CONCRETE OVERLAY SHALL CLOSELY FOLLOW FABRIC LAYDOWN. IN THE EVENT THAT THE SCALANT PLEFECT THEORY AND FOLLOW FABRIC LAYDOWN. SEALANT BLEEDS THROUGH THE FABRIC BEFORE THE ASPHALT CONCRETE IS PLACED, IT MAY BE NECESSARY TO BLOT THE SEALANT BY SPREADING SAND OR ASPHALT CONCRETE OVER THE AFFECTED AREAS. THIS WILL PREVENT ANY TENDENCY FOR CONSTRUCTION EQUIPMENT TO PICK UP THE FABRIC WHEN DRIVING OVER IT.

TURNING OF THE PAVER AND OTHER VEHICLES SHALL BE GRADUAL TO AVOID MOVEMENT OR DAMAGE TO THE COMPOSITE. UNESSENTIAL TRAFFIC ON COMPOSITE SHOULD BE ELIMINATED. IF IT IS NECESSARY TO OPEN THE ROAD TO TRAFFIC AFTER FABRIC PLACEMENT, BUT PRIOR TO PAVING, IT IS ADVISABLE TO SPREAD A SMALL AMOUNT OF SAND OVER THE MEMBRANE TO PREVENT TIRES FROM STICKING TO THE SEALANT OR PULLING UP THE COMPOSITE. THIS PRACTICE IS TO BE AVOIDED IF POSSIBLE TO PREVENT DAMAGE TO THE MEMBRANE. QUICK STOPS AND SHARP TURNS MAY DAMAGE THE MATERIAL. SOME BOND LOSS THROUGHOUT THE MEMBRANE, IT SHOULD BE CORRECTED BY PNEUMATIC ROLLING UNTIL ADHESION IS RESTÓRED.

5 ASPHALT CONCRETE: THE ASPHALT CONCRETE OVERLAY SHALL CONFORM TO 401 SPECIFICATION WITH A MINIMUM THICKNESS OF 1.5". A TWO COURSE OVERLAY IS PREFERRED.

METHOD OF MEASUREMENT. THE ACCEPTED FABRIC COMPOSITE PLACED IN ACCORDANCE WITH THESE SPECIFICATIONS AND AS DIRECTED WILL BE MEASURED BY THE SQUARE YARD OF ROADWAY, RAMPS, AND TURNOUTS COVERED BY THE COMPOSITE FABRIC. LAPS IN COMPOSITE FABRIC WILL NOT BE MEASURED.

BLOTTING THE SEALANT, SPREADING SAND OR ASPHALT CONCRETE OVER THE MEMBRANE TO PREVENT TIRES FROM STICKING TO THE SEALANT OR PULLING UP THE FABRIC, ROLLING TO RESTORE BOND, OR APPLICATION OF A TACK COAT NOT BE MEASURED FOR DIRECT PAYMENT BUT SHALL BE CONSIDERED A NECESSARY PART OF THE CONSTRUCTION INVOLVED AND THE COST THEREFORE SHALL BE INCLUDED IN OTHER APPROPRIATE CONTRACT UNIT PRICES.

BASIS OF PAYMENT. THE ACCEPTED QUANTITIES OF PAVEMENT OVERLAY FABRIC COMPOSITE WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD, WHICH PRICE AND PAYMENT SHALL BE FULL COMPENSATION FOR FURNISHING ALL LABOR, MATERIALS (INCLUDING ASPHALT SEALANT AND OVERLAP), TOOLS, EQUIPMENT AND INCIDENTALS FOR DOING ALL THE WORK INVOLVED IN FURNISHING AND PLACING THE COMPOSITE COMPLETE IN PLACE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

ITEM UNIT DESCRIPTIC		UNIT	DESCRIPTION
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PAVEMENT OVERLAY FABRIC COMPOSITE SPECIAL SQUARE YARD

PAVEMENT MARKINGS.

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CONNECTING GUARDRAIL TO EXISTING RAIL

IN LOCATIONS WHERE TYPE 5 GUARDRAIL, TERMINAL ASSEMBLIES, ETC. ARE TO BE CONNECTED TO EXISTING RAIL SOME MODIFICATIONS MAY BE REQUIRED, INCLUDING EXTRA POSTS, DRILLING HOLES AND POSSIBLY PARTIAL SECTIONS OF ADDITIONAL RAIL ELEMENTS. THE COST OF THIS ADDITIONAL WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR TYPE 5 GUARDRAIL. IF ADDITIONAL PORTIONS OF RAIL ELEMENT ARE USED THE LINEAL MEASUREMENT OF THIS ADDITIONAL PORTION SHALL BE ADDED FOR PAYMENT.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A "W-BEAM RAIL SPLICE" AS SHOWN ON STANDARD CONSTRUCTION DRAWING GR-1.1. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

LOCATIONS OF GUARDRAIL

THE GUARDRAIL PROTECTION PROVIDED IN THIS PLAN SHALL BE LOCATED IN FIELD TO ASSURE THAT THE INSTALLATION WILL AFFORD THE MAXIMUM PROTECTION FOR TRAFFIC. THIS LOCATION SHALL BE POSITIONED AS FAR AS POSSIBLE FROM THE EDGE OF PAVEMENT WHILE MAINTAINING PROPER GRADE IN FRONT OF GUARDRAIL AS PER STANDARD DRAWINGS AND PLAN DETAILS.

SUGGESTED SEQUENCE OF GUARDRAIL WORK

I. GUARDRAIL WORK IS TO BEGIN AFTER THE SHOULDER GRADING IS COMPLETED AND THE 617 MATERIAL IS PLACED.

2. REMOVE THE GUARDRAIL.

PERFORM THE RESHAPING UNDER GUARDRAIL INCLUDING COMPLETING THE EMBANKMENT, AS PER PLAN.

4. REBUILD/CONSTRUCT THE GUARDRAIL RUN.

5. INSTALL BARRIER REFLECTORS.

BRIDGE LOCATION MARKER SIGN

THE BRIDGE LOCATION MARKER SIGN INDICATES THE COUNTY. THE ROUTE. AND THE STRAIGHT LINE MILEAGE OF THE STRUCTURE. THE CONTRACTOR SHALL REMOVE THE EXISTING BRIDGE LOCATION MARKER SIGNS AND REERECT THE SIGNS IN KIND. IF THERE ARE ANY QUESTIONS ON THE LOCATION, PLEASE CONTACT THE DISTRICT BRIDGE ENGINEER.

ALL COSTS, INCLUDING THE SIGN REMOVAL, SIGN REERECTION, POST REMOVAL, AND POST INSTALLATION SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 606 - GUARDRAIL REBUILT, TYPE 5.

ITEM 202 - ANCHOR ASSEMBLY REMOVED, TYPE A

THIS ITEM SHALL INCLUDE THE REMOVAL OF THE EXISTING TYPE A, ANCHOR ASSEMBLY INCLUDING ALL POSTS, HARDWARE, RAIL ELEMENTS, AND CONCRETE ANCHORS. ALL ITEMS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALLBE PROPERLY DISPOSED OF.

THE EXISTING CONCRETE ANCHOR AND CONCRETE AT POSTS SHALL BE REMOVED ENTIRELY. ALL HOLES REMAINING AFTER REMOVAL SHALL BE FILLED WITH GRANULAR MATERIAL OR EXCESS MATERIAL RESULTING FROM GUARDRAIL CONSTRUCTION. ALL FILL MATERIAL SHALL BE THOROUGHLY COMPACTED AND LEVELED, AS DIRECTED BY THE ENGINEER.

PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 202, ANCHOR ASSEMBLY REMOVED, TYPE A.

ITEM 203 - EMBANKMENT, AS PER PLAN

AT SPECIFIED LOCATIONS AND LOCATIONS AS DIRECTED BY THE ENGINEER, EMBANKMENT SHALL BE PLACED AS TO PROVIDE A SUITABLE AREA TO CONSTRUCT GUARDRAIL AND TO PROVIDE STRUCTURAL INTEGRITY OF THE ROADWAY SHOULDER.

AREAS WHERE EMBANKMENT MATERIAL IS TO BE PLACED SHALL BE SCALPED. THE REQUIREMENTS FOR BENCHING SHALL BE WAIVED. THE DEPTH OF LAYERS IN WHICH THE EMBANKMENT IS PLACED SHALL BE LIMITED TO EIGHT (8) INCHES IN THICKNESS. THE METHOD OF COMPACTION AND EQUIPMENT USED SHALL BE SUFFICIENT TO PROVIDE A MINIMUM OF 60 PERCENT OF RELATIVE COMPACTION.

AFTER THE EMBANKMENT HAS BEEN PLACED, THE AREAS SHALL BE FERTILIZED, SEEDED, MULCHED, AND WATERED AS PER ITEM 659. THE COST SHALL BE INCLUDED IN THIS ITEM FOR PAYMENT.

THE METHOD OF MEASUREMENT FOR EMBANKMENT MATERIAL SHALL BE BY THE NUMBER OF CUBIC YARDS MEASURED BY LOOSE VOLUME IN THE CARRIER AT THE WORK SITE, IN LIEU OF THE REQUIREMENTS OF 203.09. PAYMENT FOR ACCEPTED QUANTITIES WILL BE MADE AT THE CONTRACT UNIT BID PRICE PER CUBIC YARD FOR ITEM 203 - EMBANKMENT, AS PER PLAN AND SHALL INCLUDE ALL WORK DESCRIBED ABOVE.



ITEM 209 - RESHAPING UNDER GUARDRAIL

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

THIS WORK SHALL BE COMPLETED AT LOCATIONS SPECIFIED FOR WORK AS WELL AS PER CMS 209.05 AND AS DESCRIBED HEREIN, AND SHALL AT ALL TIMES BE AS DIRECTED BY THE ENGINEER.

THE AREA IN FRONT OF, UNDER, AND BEHIND THE GUARDRAIL SHALL BE GRADED AND RESHAPED TO PROVIDE AN AREA THAT HAS A SLOPE OF 10:1 MAXIMUM (SEE DETAIL BELOW AS WELL AS THE GUARDRAIL DETAIL SHEETS FOR FURTHER DETAILS AND INFORMATION OF THE LIMITS OF THIS WORK).

EXCESS MATERIAL RESULTING SHALL BE USED ELSEWHERE FOR THIS ITEM IF SO DIRECTED OR DISPOSED OF PROPERLY. IF EXTRA MATERIAL IS REQUIRED IT SHALL BE PAID FOR WITH ITEM 203 - EMBANKMENT, AS PER PLAN. THIS WORK SHALL NOT BE STARTED UNTIL AFTER THE RESURFACING AND BERM WORK HAS BEEN COMPLETED.

THE ABOVE WORK SHALL BE PAID FOR PER STATION WITH ITEM 209, RESHAPING UNDER GUARDRAIL WITH THE EXCEPTION OF ANY EXTRA MATERIAL REQUIRED TO MEET THE SLOPE REQUIREMENTS WHICH SHALL BE PAID BY ITEM 203 - EMBANKMENT, AS PER PLAN





TO MEET THESE ASSEMBLIES.

THE ABOVE WORK.

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ITEM 614 - MAINTAINING TRAFFIC: GENERAL

FROM SLM 13.13 (MANSFIELD CORP LIMIT) TO SLM 14.81 (CRIDER ROAD) ALL THREE LANES OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT FROM 9:00PM TO 7:00AM WHERE ONLY I LANE OF TRAFFIC SHALL BE MAINTAINED VIA FLAGGERS. ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL ALSO BE MAINTAINED IN ALL 2 LANE DIVIDED SECTIONS. FOR OTHER SECTIONS OF THE PROJECT, TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT ONE-WAY TRAFFIC WITH THE USE OF FLAGGERS WILL BE PERMITTED FOR MUNUMUM PERFORMED OF THE CONSISTENT WITH THE PERSURPTION ONE-WAY TRAFFIC WITH THE USE OF FLAGGERS WILL BE PERMITTED FOR MINIMUM PERIODS OF TIME CONSISTENT WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR PROTECTION OF COMPLETED ASPHLAT CONCRETE COURSES. 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 LARDR EQUIPMENT AND MATERIALS CHALL DE INCLUDED IN THE LUMP SUM 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 MAINTENANCE OF TRAFFIC OPERATIONS WITH THE LOCAL STATE HIGHWAY PATROL.

NIGHT WORK IS PERMITTED FOR THE SECTION FROM SLM 13.13 TO 14.81 ONLY.

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.

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.

<u>446 DENSITY ACCEPTANCE WITH FLAGGER CLOSING OF A</u> <u>2-LANE HIGHWAY FOR PAVING OPERATIONS</u>

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.

FLOODLIGHTING

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 ADEQUACY 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 SATIGEACTION OF THE ENCINEER PEOPEE WORK PROCEEDS 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.

<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

SATURDAY

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 T WEEK	THE T	TIME ALL I BE OPEN T	LANES MU O TRAFF.	IST IC		
SUNDAY MONDAY TUESDAY WEDNESDA THURSDA	12:00N 12:00N 12:00N 4Y 12:00N Y 12:00N	FRIDAY T FRIDAY T MONDAY TUESDAY WEDNESD	THROUGH THROUGH THROUGH THROUGH AY THROU	6:00 AM N 6:00 AM 1 6:00 AM 6:00 AM 9 6:00 AM 96H 6:00 A	IONDAY TUESDAY WEDNESDA THURSDA AM MONDA	4 Y 1 Y 4 Y
FRIDAY	12 : 00N	IHURSDA	TIHROUL	ы 6:00 AI	M MONDA	r

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$50 FOR EACH MINUTE THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

12:00N FRIDAY THROUGH 6:00 AM MONDAY

NOTIFICATIONS OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW. NOTIFICATIONS SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS. UPON RECEIPT OF NOTIFICATION BY THE CONTRACTOR, THE PROJECT ENGINEER WILL ARRANGE NOTIFICATION OF THE FOLLOWING ORGANIZATIONS, IN WRITING, IN ACCORDANCE WITH THE BELOW TABLE:

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

	NOTIFICATION TIME TABLE	
<u>ITEM</u>	DURATION OF CLOSURE	NOTICE LEAD TIME REQUIRED*
	TWO WEEKS OR GREATER	21 CALENDAR DAYS
RAMP AND/OR	12 HOURS TO TWO WEEKS	14 CALENDAR DAYS
	12 HOURS OR LESS	4 BUSINESS DAYS
LANE CLOSURES AND	TWO WEEKS OR GREATER	14 CALENDAR DAYS
RESTRICTIONS	LESS THAN TWO WEEKS	5 BUSINESS DAYS
START OF CONSTRUCTION AND TRAFFIC PATTERN CHANGES	NZA	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

* - PRIOR TO CLOSURE DATE, UNLESS NOTED OTHERWISE

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

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.

TRAFFIC.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY TO CONSTRUCT A TEMPORARY ASPHALT WEDGE FROM THE EXISTING PAVEMENT TO THE PLANED SURFACE AT BUTT JOINTS AND OTHER LOCATIONS THAT RESULT IN A DROP-OFF. THIS QUANTITY SHALL ALSO BE USED AT PLANED SURFACES WHERE A TEMPORARY ASPHALT WEDGE IS NEEDED AROUND CASTINGS. BEFORE RESURFACING OF THE PAVEMENT, THE TEMPORARY WEDGE SHALL BE REMOVED AND THE COST SHALL BE CONSIDERED INCIDENTAL TO ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC.

SPECIFICATIONS, 614.04.

01/S<2/PV: WORK ZONE MARKING WORK ZONF MARKIN WORK ZONE MARKIN

02/STR/PV: WORK ZONE MARKIN WORK ZONE MARKIN WORK ZONE MARKIN

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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.

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

ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC

ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC (01/S<2/PV): (02/STR/PV): 25 CY 5 CY (03/S<2/PV): 2 CY

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

6	SIGN:	(W8-H12A-36) NO EDGE LINE	 25 EACH
6	SIGN:	(R4-1-24) DO NOT PASS	18 EACH
6	SIGN:	(R4-2-24) PASS WITH CARE	5 EACH
6	SIGN:	(W8-H12A-36) NO EDGE LINE	 8 EACH
6	SIGN:	(R4-1-24) DO NOT PASS	8 EACH
6	SIGN:	(R4-2-24) PASS WITH CARE	5 EACH

TOTAL	(01/S<2/PV)	= 48 EACH
TOTAL	(02/STR/PV)	= 21 EACH

TOTAL = 69 EACH

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

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 ARRANGEMENTS ARE INITIATED.

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

DURING CONSTRUCTION OPERATIONS AT SIGNALIZED INTERSECTIONS WHERE TRAFFIC NEEDS TO BE DIRECTED THROUGH THE INTERSECTION.

DURING A TRAFFIC SIGNAL INSTALLATION.

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 LISTED BELOW:

STATE HIGHWAY PATROL 221 S. MAIN STREET MANSFIELD, OH 44907 419.759.2222

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:

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE (01/S<2/PV): 32 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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MAINTENANCE OF TRAFFIC NOTES
RIC-42-13.13
12 36

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 SINGLE 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 02/STR/PV: 2 EACH





MAXIMUM.

GROUP MAILBOX INSTALLATION

MAILBOX APPROACHES

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THE MAILBOX APPROACHES SHALL BE PAVED WITH THE CORRESPONDING MAINLINE PAVEMENT TREATMENTS. 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 QUANTITY 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. QUANTITIES TO PERFORM THIS WORK HAVE BEEN INCLUDED IN THE GENERAL SUMMARY AND ARE ESTIMATED AS FOLLOWS.

ITEM 209 - GRADING MAILBOX APPROACHES: 01/S<2/PV:	2 EACH
ITEM 617 - COMPACTED AGGREGATE 01/S<2/PV:	2 CY

<u>LOCATIONS OF MAILBOX SUPPORT SYSTEM TO BE</u> REPLACED

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

1329: ASD-42 1311: ASD-42





FOR DETAILS NOT SHOWN SEE STANDARD DRAWING BP-4.1

	SHEET NUM.					PART.						ITEM	GRAND						
7	8	13	16	17	18				01/S<2/PV	02/STR/PV	03/S<2/PV	04/S<2/PV	05/STR/BR	06/S<2/BR	IIEM	EXT	TOTAL	UNIT	
				300					300						202	38000	300	FT	GUARDRAIL REMOVED
				3,375						3,375					202	38200	3,375	FT	GUARDRAIL REMOVED FOR RE
				3					3						202	42000	3	EACH	ANCHOR ASSEMBLY REMOVED
				9					1	8					202	42010	9	EACH	ANCHOR ASSEMBLY REMOVED
				4					2	2					202	42040	4	EACH	ANCHOR ASSEMBLY REMOVED
				1					1						202	42050	1	EACH	ANCHOR ASSEMBLY REMOVED
			-	27.5					7.0	27.5					203	20001	27.5		EMBANKMENT, AS PER PLAN
			1.23	45.1					1.3	37.8	0.3				209	60500	45.1		
			8.17						4 76	3 4 1	0.5				209	72051	8.17	MILE	PREPARING SUBGRADE FOR S
															200				
		2							2						209	80000	2	EACH	GRADING MAILBOX APPROACH
				150					150						606	15150	150	FT	GUARDRAIL, TYPE MGS HALF F
				3,375						3,375					606	16500	3,375	FT	GUARDRAIL REBUILT, TYPE 5
				275					275						606	17000	275	FT	RAISING TYPE 5 GUARDRAIL
				8						8					606	26100	8	EACH	ANCHOR ASSEMBLY, TYPE E
									E						600	06450	F		
				2					5	2					000 909	26500	2		ANCHOR ASSEMBLY, MUS IYP
				2					2	<u> </u>					800	26550	2	FACH	ANCHOR ASSEMBLY, THE I
	2										2				623	39500	2	FACH	MONUMENT BOX AD.IUSTED TO
		2									-				SPECIAL	69050100	2	EACH	MAILBOX SUPPORT SYSTEM, S
	40								40						611	01800	40	FT	8" CONDUIT, TYPE B
	40								40						611	03100	40	FT	10" CONDUIT, TYPE B
	60								60						611	04400	60		12" CONDUIT, TYPE B
	12								12						611	05900	12		CATCH PASIN NO 6 AS DED D
	31								31						011	90371	51		CATCH BASIN, NO. 6, AS PER P
	32								32						611	98630	32	EACH	CATCH BASIN ADJUSTED TO G
	12								12						611	99654	12	EACH	MANHOLE ADJUSTED TO GRAD
															054	04040	4.004	O 1	
1,021									621	366		34			251	01042	1,021	CY	PARTIAL DEPTH PAVEMENT RE
337			2,606						202	123		12			253	02000	337	CY	
			2,000						2,000						254	01000	2,606	SY SY	PAVEMENT PLANING, ASPHAL
			64 610						44 859	14 471	5 280				254	01000	64 610	SY	PAVEMENT PLANING, ASPHAL
			04,010						44,000	14,471	0,200				204	01000	04,010		
			4,294						4,294						254	01000	4,294	SY	PAVEMENT PLANING, ASPHAL
			8,569						5,383	2,960	226				254	01000	8,569	SY	PAVEMENT PLANING, ASPHAL
			335						224	83	28				254	01600	335	SY	PATCHING PLANED SURFACE
			1,073						1,073						301	46000	1,073	CY	ASPHALT CONCRETE BASE, PO
			6,398						3,842	1,870	686				407	10000	6,398	GAL	TACK COAT
			45 574						40.000	4 007	40				407	00000	45 574		
			15,571						10,926	4,627	18				407	20000	15,571	GAL	
			0,930						2,391	3,203	330 Q				408	12000	0,930 5.409	GAL	FRIME CUAL, AS PER PLAN
			361						208	153	0				424	12000	361	CY	
			2.244					1	1.558	503	183				442	00201	2.244	CY	ASPHALT CONCRETE SURFAC
			1					1	,,									1	
			94						56	38					442	00201	94	CY	ASPHALT CONCRETE SURFAC
			3,137						2,179	701	257				442	20201	3,137	CY	ASPHALT CONCRETE INTERME
			326						326						442	20201	326	CY	ASPHALT CONCRETE INTERME
		2	1,238						749	444	47				617	10100	1,240	CY	
			3,972						2,647	486	839				617	20000	3,972	SY	SHOULDER PREPARATION
			5 967						5 867						SPECIAL	60012060	5 967	ev	
			3.579					-	3,007						SPECIAL	69012060	3,007	SY	PAVEMENT OVERLAT FABRIC
			3,573						3,373				1			00012000	3,313		
					1,055				747	273	35				621	00100	1,055	EACH	RPM
					1,055				747	273	35				621	54000	1,055	EACH	RAISED PAVEMENT MARKER R
				86	40.5				16	/0	0.00				626	00110	86		LEDGE LINE OF TYPE 1
					18.5				10.92	6.9	0.68				642	00204	18.5		
	l		1		0.1		I		1.20	I	0.34	L			042	00204	1.0		LANE LINE, 0, ITPET

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DESCRIPTION	SEE SHEET NO.	CALCULATED NRF CHECKED KCK
ROADWAY		
USE		
), TYPE A		
), TYPE E		
D, TYPE T		
) TYPE B		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10	
IL .		
HOULDER PAVING, AS PER PLAN	7	
		X
		E
EE		A
		Σ
ET		Σ
) GRADE		
INGLE	13	S
		_
DRAINAGE		
		4 %
LAN	8	ш
		σ
RADE		•
E		
PAVEMENT		
PAIR (ASPHALT CONCRETE BASE)		
CONCRETE (2.00 INCH)		
CONCRETE (9.00 INCH)		
CONCRETE (TAPER 0.0" TO 1.25")		
664-22 (9.0") (TWO-LIFTS)		
	Q	
ALT CONCRETE, TYPE B (1.25")	0	
ALT CONCRETE, TYPE B (SAFETY EDGE)		
E COURSE, 9.5 MM, TYPE A (446), AS PER PLAN (1.25")	8	
· · · · · ·		6
E COURSE, 9.5 MM, TYPE A (446), AS PER PLAN (SAFETY EDGE)	8	1;
DIATE COURSE, 19 MM, TYPE A (448), AS PER PLAN (1.75")	8	ຕໍ
DIATE COURSE, 19 MM, TYPE A (448), AS PER PLAN (2.00")	8	1
		4
COMPOSITE (30" WIDE)	9	Ē
COMPOSITE (60" WIDE)	9	U U
		2
TRAFFIC CONTROL		
(BIDIRECTIONAL)		$\begin{pmatrix} 14 \end{pmatrix}$
		<u>く</u> 36ノ

	GRAND	ITEM	TEM		PART.							Ч.	HEET NUI	Sł				
	TOTAL	EXT	IIEM	06/S<2/BR	05/STR/BR	04/S<2/PV	03/S<2/PV	02/STR/PV	01/S<2/PV				29	28	19	18	12	11
	10.05	00200	640					4 4 4	7.04							10.05		
FT C	269	00300	642				269	4.41	7.94							269		
FT S	36	00490	642				36									36		
FT TI	638	00690	642				638									638		
EACH L/	3	01290	642				3					[]				3		
FT C	6.346	00400	644					350	5 996							6.346		+
FT S	1,037	00500	644					213	824							1,037		+
FT TI	4,992	00700	644					781	4,211							4,992		
EACH S	2	01110	644						2							2		
EACH LA	132	01300	644					20	112							132		_
EACH L/	4	01350	644						4							4		
																		-
FT C	269	00400	644				269									269		+
FT S	36	00500	644				36									36		
	638	00700	644	T]	T	638									638		\square
EACH LA	3	01300	644				3									3		+
	36	26501	632				3		33						36			7
	JU	20301	002				J								50			\pm
FT R	400	38602	202		400									400				+
SY P	1,007	01001	254		1,007									1,007				+
GAL T/	81	10000	407		81									81				
FT S/	389	30000	409		389									389				1
FT JC	274	31000	516		274							 '		274				+
FT B	400	75500	517		400									400				-
CY BF	35	10000	856		35									35				
	105	08200	202	405									105					4
FT J	105	31000	516	105									105					
	32	11110	614						30								30	-+
FACH W	69	12460	614					21	48			<u> </u>					52	-
	32	13000	614				2	5	25									-
MILE W	3.2	20550	614				0.68		2.52							3.2		
MILE W	24.68	21550	614					8.82	15.86			[]				24.68		
FT W	13 230	23680	614				538	700	11 992			[]				13 230		+
FT W	872	26610	614				72	700	800							872		+
EACH W	270	30650	614				6	40	224							270		1
																		+
M	19	11000	614		19		19	19	19									
	5	16010	619		10		1	2	2									-
C.	LS	10000	623						LS									
M	LS	10000	624	LS	LS		LS	LS	LS									
																		+
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DESCRIPTION	SEE SHEET NO.	CALCULATED NRF CHECKED KCK
TRAFFIC CONTROL ALTERNATES		ARY
	19	MMU
REUSE CONCRETE, AS PER PLAN(1.25")	8	NERAL S
G ASPHALT CONCRETE STRUCTURE REPAIR (ASD-42-0357)		GEI
MAINTENANCE OF TRAFFIC	27	
VITH PATROL CAR FOR ASSISTANCE TAINING TRAFFIC III, 4", 642 PAINT SS III 642 PAINT		
IE, CLASS III, 8", 642 PAINT III, 642 PAINT 642 PAINT		
INCIDENTALS		
ES AND SURVEYING		.13
		-42-13
		RIC-
		15 36

					LE	NGTH				254	254	254	254	254	254	407	407	407	407	301	424	442	442	442	424	442	SPECIAL	SPECIAL			209	209	408	617	617	ED TED
			LOG	POINT										DAVENENT								ASPHALT	ASPHALT	ASPHALT	FINE GRADED	ASPHALT CONCRETE			AGGREGA	re		PPEDADING				KCK KCK
							AVERAGE		PAVEMENT	PAVEMENT	PAVEMENT		PAVEMENT	PAVEMENT PLANING,	PATCHING	NON-TRACKING		_			FINE GRADED				POLYMER		PAVEMENT	PAVEMENT		R AGGREGAT	E	SUBGRADE	PRIME COAT,			CAL
PLAN SPLIT	COUNTY	ROUTE		10	MILE	CEET .	WIDTH	TYPICAL	AREA	ASPHALT	ASPHALT	ASPHALT	ASPHALT	ASPHALT CONCRETE	PLANED	TACK COAT	TACK COAT	TACK COAT	TACK COAT	BASE,	ASPHALT	COURSE, 9.5	COURSE, 19	COURSE, 19	CONCRETE,	MM, TYPE A	OVERLAY FABRIC (60"	OVERLAY FABRIC (30"	WIDTH	AREA		FOR	AS PER PLAN (@ 0.40	AGONEGATE	SHOULDER	
			100	POINT	WILC					CONCRETE (1.25")	CONCRETE (2.0")	CONCRETE (3.0")	CONCRETE (9.0")	(TAPER 0.0"	SURFACE	@ 0.05 GAL/SY	@ 0.08 GAL/SY		g	PG64-22 (9") (TWO-LIFTS)	CONCRETE, TYPE B (1.25")	MM, TYPE A (446), AS PER	MM, TYPE A (448), AS PER	MM, TYPE A R (448), AS PER	TYPE B (SAFETY	(446), AS PER PLAN	WIDE)	WIDE)				PAVING, AS	GAL/SY)	2	1	
														10 1.25")								PLAN (1.25")	PLAN (1.75")	PLAN (2.0")	EDGE)	(SAFETY		-	SL S	R		PERPLAN		INCHES		
			STRAIGHT	LINE MILEAGE	1		FT		SY	SY	SY	SY	SY	SY	SY	GAL	GAL	GAL	GAL	СҮ	СҮ	СҮ	CY	CY	CY	CY	SY	SY	FT F	T SY	MILE	MILE	GAL	СҮ	SY	
01/S<2/PV	RIC	42	13.13	13.67	0.54	2,851	38.0	1	12,038			12,038	3,801		60	792	1,267			950		418	585			30	3,168		2.0 2.	0 1,267		0.54	507	70		
01/S<2/PV	RIC	42	13.67	13.74	0.07	370	52.0	1	2,138			2,138	493		11	132	211			123		74	104			4	411		2.0 2.	0 164		0.07	66	9		
01/S<2/PV	RIC	42	13.74	13.98	0.24	1,267	74.0	2	10,418					617			833				362				13				2.0 2.	0 563		0.24	225	31	ļ'	4
01/S<2/PV	RIC	42	13.98	14.04	0.06	317	74.0	2*	2,606	2,606							208				91											0.06		ļ	<u> </u> '	4
01/S<2/PV	RIC	42	14.04	14.20	0.16	845	74.0	2	6,948					617			556				241				9				2.0 2.	0 376		0.16	150	21	'	-
01/S<2/PV	RIC	42	14.20	14.3/	0.17	898	42.0	2	4,191		4 701						335				146			266	10			4 701	2.0 2.	0 399		0.17	160	22	<u> </u> '	1
01/5<2/PV	RIC	42	14.37	16.00	0.37	1 954	42.0	3	40,101	-	4,781						3,595				302			200	21			4,701	2.0 2.	0 3,820	-	0.37	347	48	<u> </u> '	
01/S<2/PV	RIC	42	16.37	16.41	0.04	211	53.0	2	1.243		1,000						99				43			00	2			1,000	2.0 2.	0 94		0.04	38	5	<u> </u>	
01/S<2/PV	RIC	42	16.41	16.55	0.14	739	40.0	2	3,284								263				114				8				2.0 2.	0 328		0.14	131	18		Ā
01/S<2/PV	RIC	42	16.55	17.29	0.74	3,907	31.0	2	13,457								1,077				467				41				2.0 2.	0 1,736		0.74	694	96		
01/S<2/PV	RIC	42	17.29	17.52	0.23	1,214	31.0	2	4,182								335				145				13				2.0 2.	0 540		0.23	216	30		
02/STR/PV	RIC	42	17.52	17.90	0.38	2,006	31.0	2	6,910					258			553				240				21				2.0 2.	0 892		0.38	357	50	<u> </u>	l m
	SUSPEND	& RESUME	AT RIC-42-1790	1																												0.00		<u> </u>	 '	
02/STR/PV	RIC	42	17.94	18.05	0.11	581	31.0	2	2,001					258			160				69				6				2.0 2.	0 258		0.11	103	14	'	
02/STR/PV	450	12	0.00	2.25	2.25	11 880	35.0	2	46 200					202			3 606				1 604				126				20 2	0 5.280		2.25	2112	203	<u> </u>	
02/STR/PV	ASD	42	2.25	2.62	0.37	1.954	33.0	4	7.165			7.165		232	36		0,000	358	573		1,004	249	348		120	21			2.0 2.	0 3,200		0.37	347	48	'	1
02/STR/PV	ASD	42	2.62	2.80	0.18	950	41.0	5	4,328			4,328			22			216	346			150	210			10						0.18				5
02/STR/PV	ASD	42	2.80	2.85	0.05	264	41.0	6	1,203			1,203			6			60	96			42	58			3			2.0	59		0.05	24	3		
02/STR/PV	ASD	42	2.85	2.92	0.07	370	41.0	4	1,686			1,686			8			84	135			59	82			4			2.0 2.	0 164		0.07	66	9		જ
01/S<2/PV	ASD	42	2.92	3.02	0.10	528	53.0	4	3,109			3,109			16			155	249			108	151			6			2.0 2.	0 235		0.10	94	13	ļ'	
01/S<2/PV	ASD	42	3.02	3.12	0.10	528	59.0	4	3,461			3,461			17			173	277			120	168			6			2.0 2.	0 235		0.10	94	13	'	Ξ
01/S<2/PV	ASD	42	3.12	3.19	0.07	370	58.0	6	2,384			2,384			12			119	191			83	116			4			2.0	82		0.07	33	5	<u> </u> '	ΙŪ
01/S<2/PV	NBL	ANES 42	3.19	3.29	0.06	317	30.0	6	1.057			1.057			5			53	85			37	51			0			20	70	0.06	0.10	28	4	70	Σ
01/S<2/PV	NBL	ANES	3.35	3.63	0.28	1,478	30.0	4	4,927			4,927			25			246	394			171	239						2.0 2.	0 657	0.28		263	36	657	μ
03/S<2/PV	NB L	ANES	3.63	3.80	0.17	898	30.0	4	2,993			2,993			15			150	239			104	146						2.0 2.	0 399	0.17		160	22	399	
01/S<2/PV	CROSS	SOVER	3.35			32	32.0	4	114			114			1			6	9			4	6						2.0 2.	0 14	0.00		6	1	14	
01/S<2/PV	CROSS	SOVER	3.40			32	75.0	4	267			267			1			13	21			9	13						2.0 2.	0 14	0.00		6	1	14	1 -
01/S<2/PV	SB L/	ANES	3.29	3.35	0.06	317	30.0	7	1,057			1,057			5			53	85			37	51						2.	0 70	0.06		28	4	70	
01/S<2/PV		& RESUME	3.35 AT ASD-42-0357	3.57	0.22	1,162	30.0	4	3,873			3,873			19			194	310			134	188						2.0 2.	0 516	0.22		206	29	516	1
03/S<2/PV	SB L/	ANES	3.67	3.80	0.13	686	30.0	4	2.287			2.287			11			114	183			79	111						2.0 2.	0 305	0.13		122	17	305	
01/S<2/PV	RAMP A @ C	LAREMONT	AVE.		0.18	950	34.0	4	3,589			3,589			18			179	287			125	174						2.0 2.	0 422	0.18		169	23	422	
01/S<2/PV	CROSSOVEF	R				48	25.0	4	133			133			1			7	11			5	6						2.0 2.	0 21	0.00		8	1	21	
01/S<2/PV	RAMP B @ C	LAREMONT	AVE		0.13	686	24.0	4	1,829			1,829			9			91	146			64	89						2.0 2.	0 305	0.13		122	17	305	
- D																																		<u> </u>	'	1
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02/STR/PV	EXTRA AREA	A FOR PAVE	D DRIVES						261					261	1		21				9	•													'	4
02/STR/PV	EXTRA AREA	A FOR AGG	REGATE DRIVES						486								39				17									486			194	27	486	
02/STR/PV	EXTRA AREA	A FOR EX. &	PR. MAILBOX AF	PROACHES					320					320	2		26				11															
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			SU	BIUIAL (01/S<2	//PV)					2,606	5,867 n	44,859	4,294	5,383	224	957	9,969	1,478	2,364	1,073	3,482	1,558	2,179	326	208	56	3,579 n	5,867		_	0.93	4.76	5,391	747	2,647	1
			30 SI	BTOTAL (02/51R	/PV)					0	0	5.280	0	2,500	28	0	18	264	422	0	8	183	257	0	0	0	0	0			0.30	0.00	336	47	839	
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		FT 6	FT	EACH	EACH	EACH	EACH		Y	STATION	FT	FT	
RIC-42-16.34 NB	01/S<2/PV			1						0.5			
RIC-42-16.34 SB	01/S<2/PV			2						1.0			
RIC-42-17.87 NB	02/STR/PV		1425		2					15.3		1425	
RIC-42-17.87 SB	02/STR/PV		1425		2					15.3		1425	
ASD-42-1 40 NB	02/STR/P\/				1					0.5			
ASD-42-1.40 NB	02/STR/PV				-			1(2.0	0.5			
	02/01/01												
ASD-42-1.60 NB	02/STR/PV							10	0.0				
ASD-42-1.60 SB	02/STR/PV							7	.5				
ASD-42-1.77 NB	02/STR/PV		75		1					1.2		75	
										0.5			
ASD 42-1.90 NB	02/STR/PV		100		1					0.5		100	
ASD-42-1.90 SB	02/51R/PV		100		I					1.5		100	
ASD-42-2.59 NB	02/STR/PV		350			2				3.5		350	
ASD-42-3.50 NB	01/S<2/PV	300			1	2	1			3.0	150		
ASD-42-3.63 SB	01/S<2/PV									1.3			
ASD-42 RAMP "A"	01/S<2/PV									1.5			
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LE: QUANTITIES ARE BASED ON GATHEF RE TO BE USED AS DIRECTED BY THE PE	ROJECT FNGINFFR												
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US 41	RIC	17.29	17.52	0.23	0.46	0	0		0	0.46			0.098	0.23										+
US 42	RIC	17.52	18.05	0.53	1.06	0	0		0	1.06			0.204	0.53										-
US 42	ASD	0.00	1.00	1.00	2.00	4	126		0	2.00			0.956	1.00										
US 42	ASD	1.00	2.00	1.00	3.00	20	406		0	2.00			2.258	1.50										2
US 42	ASD	2.00	2.92	0.92	2.76	16	168		0	1.84			2.000	1.38										
US 42	ASD	2,92	3.35	0.43	1.29	8	196	1.4	0	0.86	0.16	0.70	0.845	0.65										
US 42	ASD	3.35	3.63	0.28	0.00	0	0	1.12	0	0.56	0.56	0.56	0.534	0.00										
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ADDITI	ONAL QUANTI	TY FROM S	SIDE ROA	DS																			<u> </u>	-
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957	US 42	ASD	2.95	3.02	11	13	13	0		8	5			PART OF 2-4 LANE TRANSITION	
029	US 42	ASD	3.02	3.35	10/11	58	58	0		13	45			PART OF 2-4 LANE TRANSITION AND LANE-LINE	_
l∕s∕	US 42	ASD	3.35	3.63	10/11	57	57	8		11	38			PART OF 2-4 LANE TRANSITION AND LANE-LINE	_
е+	US 42	ASD	3.63	3.78	10/11	35	35	8		6	21			PART OF 2-4 LANE TRANSITION AND LANE-LINE	
She	US 42	RIC	13.13	13.76	7/13	80	80	0		54	26			I.W.L.I.L W/LI LANES @ MICHIGAN, PARRY/ODD LOT, KROGER	_
Ś	US 42	RIC	13.76	14.19	GAP//	157	157	0		52	97	8	-		
o ≯i	US 42	RIC	14.19	14.80	//13	/8	/8	0		70	8			T.W.L.T.L. W/LT LANES @ MCELROY & REISER/EASTVIEW	_
ğ	05 42	RIC	14.80	15.57	13	96	96	0		96	0				_
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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.

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 QUALIFIED PRODUCTS LIST (QPL).

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.

01/S<2/PV: ITEM 632 - DETECTOR LOOP, AS PER PLAN	33 EACH
03/S<2/PV: ITEM 632 - DETECTOR LOOP, AS PER PLAN	3 EACH

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RIC-42-13.13 TRAFFIC SIGNAL NOTES	CALCULATED NRF CHECKED KCK
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	RIC-42-13,13



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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 AND 105.02.

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.

EXISTING PLANS

THE FOLLOWING EXISTING PLANS MAY BE INSPECTED AT THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT THREE OFFICE LOCATED AT 906 CLARK AVENUE, ASHLAND, OHIO 44805.

STRUCTURE NUMBER:	EXISTING PLAN NAME:	DA TE:
ASD-42-0357	ASD-42-3.59	2009
RIC-42-1790	RIC/ASD-42-16.37/0.00	2009

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.

UTILITIES

THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THIS PLAN. THE NATURE OF THE WORK REQUIRED BY THIS PROJECT WILL NOT AFFECT ANY KNOWN UNDERGROUND UTILITIES THAT EXIST UNDER OR ADJACENT TO THE WORK AREA.

IN-STREAM WORK RESTRICTION

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO AVOID CONSTRUCTION IN AND/OR LIMIT DEMOLITION DEBRIS FROM ENTERING STREAMS OR WETLANDS. ANY MATERIAL THAT DOES FALL INTO STREAMS OR WETLANDS SHALL BE REMOVED AS SOON AS POSSIBLE.

ORDINARY HIGH WATER MARK (OHWM) WILL BE NEEDED. THEREFORE NO WATERWAY PERMITS HAVE BEEN GRANTED AND NO IN-STREAM WORK IS ALLOWED.

SHOULD WORK (EITHER TEMPORARY OR PERMANENT) IN THE STREAM BE NEEDED; IT WILL REQUIRE A PERMIT AND AUTHORIZATION BY THE UNITED STATES ARMY CORPS OF ENGINEERS (USACE). THE CONTRACTOR SHALL NOT UTILIZE FILLS BELOW OHWM UNTIL SUCH ACTIVITY IS AUTHORIZED BY THE USACE. DETAILS OF THIS REQUIREMENT ARE DESCRIBED IN ODOT'S SUPPLEMENTAL SPECIFICATION 832.09.

USACE DEFINITION OF OHWM - THE ORDINARY HIGH WATER MARK IS THE LINE ON THE SHORES ESTABLISHED BY THE FLUCTUATIONS OF WATER AND INDICATED BY PHYSICAL CHARACTERISTICS SUCH AS A CLEAR, NATURAL LINE IMPRESSED ON THE BANK: SHELVING: CHANGES IN THE CHARACTER OF THE SOIL: DESTRUCTION OF TERRESTRIAL VEGETATION; THE PRESENCE OF LITTER AND DEBRIS; OR THE APPROPRIATE MEANS THAT CONSIDER THE CHARACTERISTICS OF THE SURROUNDING AREAS.

PLACING ASPHALT CONCRETE FEATHERING ON APPROACHES TO BRIDGES

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

PAVING AT STRUCTURES

STRUCTURE RIC-42-1632 PAVE SAME AS ROADWAY.

STRUCTURE RIC-42-1736 PAVE SAME AS ROADWAY.

STRUCTURE RIC-42-1772 PAVE SAME AS ROADWAY.

STRUCTURE RIC-42-1790

TAPER THE PLANING FROM 0.00" TO 1.25" IN 75' TO THE EXPANSION JOINT. PLANE 1.25" ON THE BRIDGE DECK. PAVE 1.25" SURFACE COURSE OF ITEM 856 - WATERPROOFING ASPHALT CONCRETE ON THE BRIDGE.

STRUCTURE ASD-42-0015 COORDINATE WORK WITH PID 94430. TAPER THE PLANING FROM 0.00" TO 1.25" IN 75' TO THE APPROACH SLABS. SUSPEND AND RESUME PLANING/ PAVING WORK AT CONCRETE APPROACH SLABS.

STRUCTURE ASD-42-0258 PLANE AND PAVE SAME AS ROADWAY.

STRUCTURE ASD-42-0357 SUSPEND AND RESUME PAVEMENT TREATMENT AT CONCRETE BRIDGE DECK AND APPROACH SLABS.

<u> ITEM 202 - REMOVAL MISC.: JOINT SEALER</u>

THIS ITEM SHALL BE USED TO REMOVE THE EXISTING JOINT SEALER LOCATED BETWEEN THE APPROACH SLAB AND THE DECK OR BACKWALL.

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

<u>ITEM 409 - SAWING AND SEALING ASPHALT CONCRETE</u> <u>PAVEMENT JOINTS</u>

THIS ITEM SHALL BE USED AT LOCATIONS INDICATED IN THE PLAN AND CONSISTS OF SAW CUTTING AND SEALING THE FINISHED SURFACE OF THE ASPHALT CONCRETE PAVEMENT.

PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS, NECESSARY TO COMPLETE THE ABOVE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID PER FOOT FOR THE ABOVE ITEM.

ITEM 517 - BRIDGE RAILING REBUILT

REMOVE THE EXISTING DEEP BEAM BRIDGE RAILING RAIL ELEMENTS FOR STORAGE TO ALLOW FOR FULL WIDTH PAVING OPERATIONS ON THE EFFECTED BRIDGE. DO NOT ALLOW FOR FULL WIDTH PAVING OPERATIONS ON THE EFFECTED BRIDGE. DO NOT ALLOW TRAFFIC TO RUN ADJACENT TO THE REMOVED GUARDRAIL RUN. SHOULD THE ADJACENT LANE BE REOPENED PRIOR TO COMPLETING THE PLANING AND PAVING OPERATION, REINSTALL THE RAIL ELEMENTS PRIOR TO REOPENING THE LANE TO TRAFFIC.

AFTER THE PLANING & PAVING OPERATIONS ARE COMPLETED OVER THE STRUCTURE, THE GUARDRAIL SHALL BE REINSTALLED. THE REMOVAL AND REPLACEMENT OF THE BRIDGE RAIL SHALL BE PERFORMED IN THE SAME DAY. DO NOT LEAVE THE REMOVED RAILING OFF THE STRUCTURE WHEN WORK ACTIVITIES ARE NOT ACTIVELY TAKING PLACE. FOR ADDITIONAL RETROFIT DETAILS, SEE SBD DBR-3-11.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER FOOT FOR ITEM 517 - BRIDGE RAILING REBUILT, WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK

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<u>GENERAL PLAN</u>

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1) APPROACH GUARDRAIL NOT SHOWN.

2) REINFORCING STEEL NOT SHOWN IN SECTION A-A FOR CLARITY.

3) SEE PAVEMENT AND SHOULDER DATA SHEET FOR APPROACH PLANING AND PAVEMENT.

4) MAINTAIN VERTICAL CLEARANCE OF 14'-9" HIGH SIDE OF SUPER.

ITEM	QUANTITY	UNIT	DESCRIPTION
202	105	FT	REMOVAL MISC.: JOINT SEALER
516	105	FT	JOINT SEALER



06/S<2/BR: ALL QUANTITIES CARRIED TO THE GENERAL SUMMARY SHEET.



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POSTS: Post posts may be

Use round wo round posts and not more taper.

Fabricated w pressure-tre if required, set.

Steel posts Use the same project unles permitted by

All posts are the Contract or may be dr

WELDED BEAM for Item 606 are as shown comply with A MPa yield poi

Sec. 7.2

Sec. 12

Sec. 13



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