

STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

**RIC-42-7.84**  
**RIC-42D-0.00**  
**RIC-13S-0.92**  
**RIC-430-5.69**

**CITY OF MANSFIELD**  
**MADISON TOWNSHIP**  
**WASHINGTON TOWNSHIP**  
**RICHLAND COUNTY**

**PROJECT DESCRIPTION**

URBAN PAVING PROJECT THROUGH THE CITY OF MANSFIELD. PROJECT TO INCLUDE PAVEMENT REPAIR, PAVEMENT PLANING, MARKINGS, AND INSTALLATION OF PEDESTRIAN ISLAND.

**EARTH DISTURBED AREAS**

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

**LIMITED ACCESS**

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

**2016 SPECIFICATIONS**

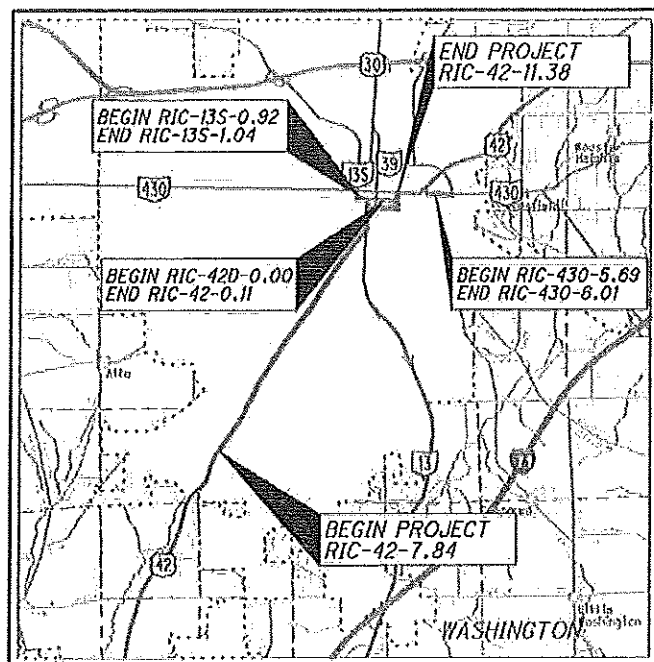
THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL 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.

APPROVED:   
DATE: 12/22/17 DISTRICT DEPUTY DIRECTOR

APPROVED:   
DATE: 12/11/18 DIRECTOR, DEPARTMENT OF TRANSPORTATION

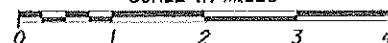
PLANS PREPARED BY:  
**OHIO DEPARTMENT OF TRANSPORTATION**  
DISTRICT THREE ENGINEERING



LOCATION MAP

LATITUDE: N40°44'25" LONGITUDE: W82°32'39"

SCALE IN MILES



PORTION TO BE IMPROVED

INTERSTATE HIGHWAY	—————
FEDERAL ROUTES	—————
STATE ROUTES	—————
COUNTY & TOWNSHIP ROADS	—————
OTHER ROADS	—————

**DESIGN DESIGNATIONS**

SEE SHEET 2

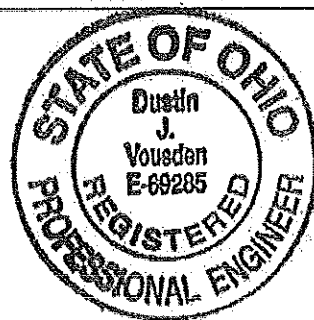
**DESIGN EXCEPTIONS**

NONE

**INDEX OF SHEETS:**

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ROADWAY ENGINEERS SEAL:



SIGNED:   
DATE: 12/22/17

STANDARD CONSTRUCTION DRAWINGS

NO.	DATE	BY	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE
BP-3.1	7/18/14	MT-95.31	7/21/17	TC-41.20	10/18/13						
BP-5.1	7/19/13	MT-95.32	7/21/17	TC-42.20	10/18/13						
BP-7.1	7/18/14	MT-95.60	7/19/13	TC-52.10	10/18/13						
		MT-95.61	7/19/13	TC-52.20	7/21/17						
CB-2.3	1/15/18	MT-97.12	1/20/17	TC-71.10	1/20/17						
		MT-99.20	7/21/17	TC-82.10	7/17/15						
MH-1.1	1/15/18	MT-101.90	7/21/17								
		MT-105.10	7/19/13								
DM-4.3	1/15/18	MT-110.10	7/19/13								
DM-4.4	1/15/18										
RM-1.1	7/18/14										

SUPPLEMENTAL SPECIFICATIONS

800	1/19/18
821	4/20/12
830	1/17/14
831	10/21/16
832	1/17/14

SPECIAL PROVISIONS

Contract Proposal Available @  
www.contracts.dot.state.oh.us/home  
RIC - US 42-07.84  
180206 PID - 98571  
Dist 3 3/22/2018 Conformed Set

FEDERAL PROJECT NO. E140(813)  
PID NO. 98571  
CONSTRUCTION PROJECT NO.  
RAILROAD INVOLVEMENT NONE  
RIC-42-7.84

**2ND STREET  
DESIGN DESIGNATION (RIC-13S-0.92 TO 1.04)**

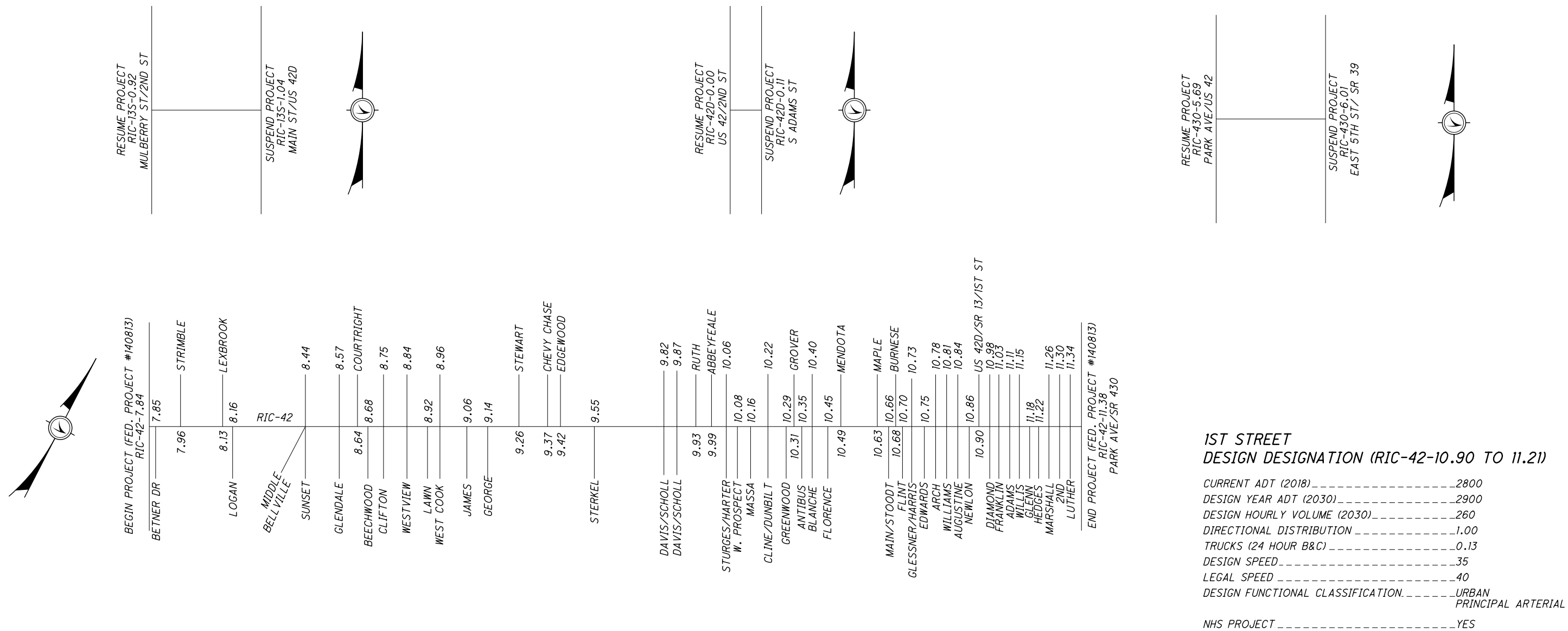
CURRENT ADT (2018)	1800
DESIGN YEAR ADT (2030)	1800
DESIGN HOURLY VOLUME (2030)	220
DIRECTIONAL DISTRIBUTION	0.54
TRUCKS (24 HOUR B&C)	0.04
DESIGN SPEED	25
LEGAL SPEED	30
DESIGN FUNCTIONAL CLASSIFICATION	URBAN PRINCIPAL ARTERIAL
NHS PROJECT	YES

**2ND STREET  
DESIGN DESIGNATION (RIC-42D-0.00 TO 0.11)**

CURRENT ADT (2018)	1500
DESIGN YEAR ADT (2030)	1600
DESIGN HOURLY VOLUME (2030)	160
DIRECTIONAL DISTRIBUTION	1.00
TRUCKS (24 HOUR B&C)	0.09
DESIGN SPEED	25
LEGAL SPEED	30
DESIGN FUNCTIONAL CLASSIFICATION	URBAN PRINCIPAL ARTERIAL
NHS PROJECT	YES

**PARK AVENUE EAST  
DESIGN DESIGNATION (RIC-430-5.69 TO 6.01)**

CURRENT ADT (2018)	4500
DESIGN YEAR ADT (2030)	4500
DESIGN HOURLY VOLUME (2030)	400
DIRECTIONAL DISTRIBUTION	0.61
TRUCKS (24 HOUR B&C)	0.05
DESIGN SPEED	35
LEGAL SPEED	40
DESIGN FUNCTIONAL CLASSIFICATION	URBAN MINOR ARTERIAL
LEGAL SPEED	NO



**LEXINGTON AVENUE  
DESIGN DESIGNATION (RIC-42-7.84 TO 10.06)**

CURRENT ADT (2018)	14000
DESIGN YEAR ADT (2030)	14000
DESIGN HOURLY VOLUME (2030)	1400
DIRECTIONAL DISTRIBUTION	0.61
TRUCKS (24 HOUR B&C)	0.05
DESIGN SPEED	35
LEGAL SPEED	40
DESIGN FUNCTIONAL CLASSIFICATION	URBAN PRINCIPAL ARTERIAL
NHS PROJECT	YES

**LEXINGTON AVENUE  
DESIGN DESIGNATION (RIC-42-10.06 TO 10.65)**

CURRENT ADT (2018)	8900
DESIGN YEAR ADT (2030)	9000
DESIGN HOURLY VOLUME (2030)	810
DIRECTIONAL DISTRIBUTION	0.56
TRUCKS (24 HOUR B&C)	0.05
DESIGN SPEED	35
LEGAL SPEED	40
DESIGN FUNCTIONAL CLASSIFICATION	URBAN PRINCIPAL ARTERIAL
NHS PROJECT	YES

**MAIN STREET  
DESIGN DESIGNATION (RIC-42-10.65 TO 10.90)**

CURRENT ADT (2018)	16000
DESIGN YEAR ADT (2030)	16000
DESIGN HOURLY VOLUME (2030)	1400
DIRECTIONAL DISTRIBUTION	0.52
TRUCKS (24 HOUR B&C)	0.05
DESIGN SPEED	35
LEGAL SPEED	40
DESIGN FUNCTIONAL CLASSIFICATION	URBAN PRINCIPAL ARTERIAL
NHS PROJECT	YES

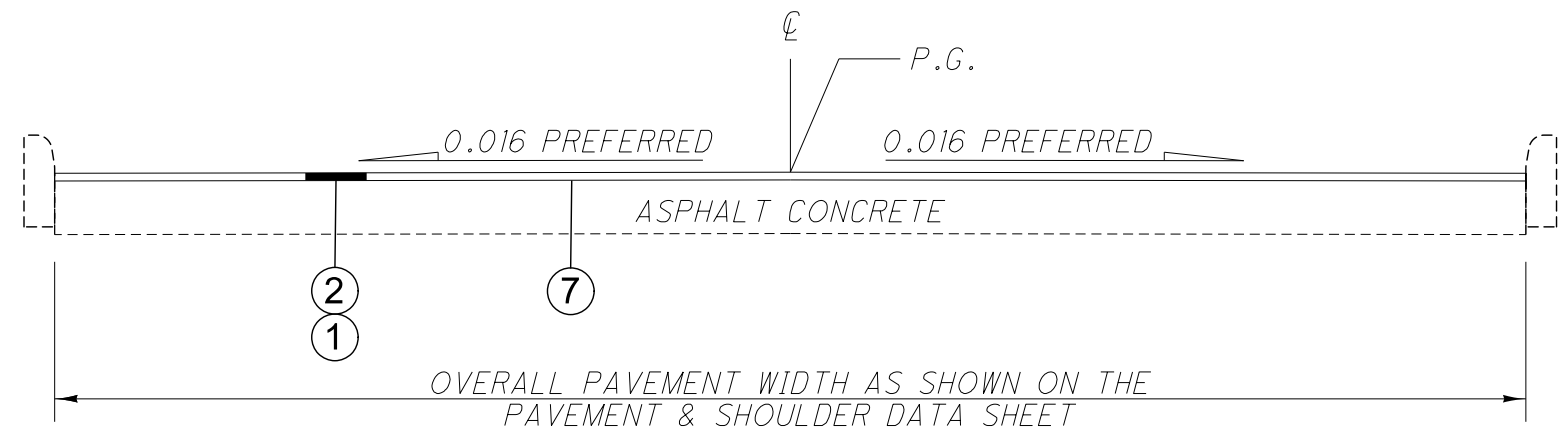
**1ST STREET  
DESIGN DESIGNATION (RIC-42-10.90 TO 11.21)**

CURRENT ADT (2018)	2800
DESIGN YEAR ADT (2030)	2900
DESIGN HOURLY VOLUME (2030)	260
DIRECTIONAL DISTRIBUTION	1.00
TRUCKS (24 HOUR B&C)	0.13
DESIGN SPEED	35
LEGAL SPEED	40
DESIGN FUNCTIONAL CLASSIFICATION	URBAN PRINCIPAL ARTERIAL
NHS PROJECT	YES

**HEDGES  
DESIGN DESIGNATION (RIC-42-11.21 TO 11.38)**

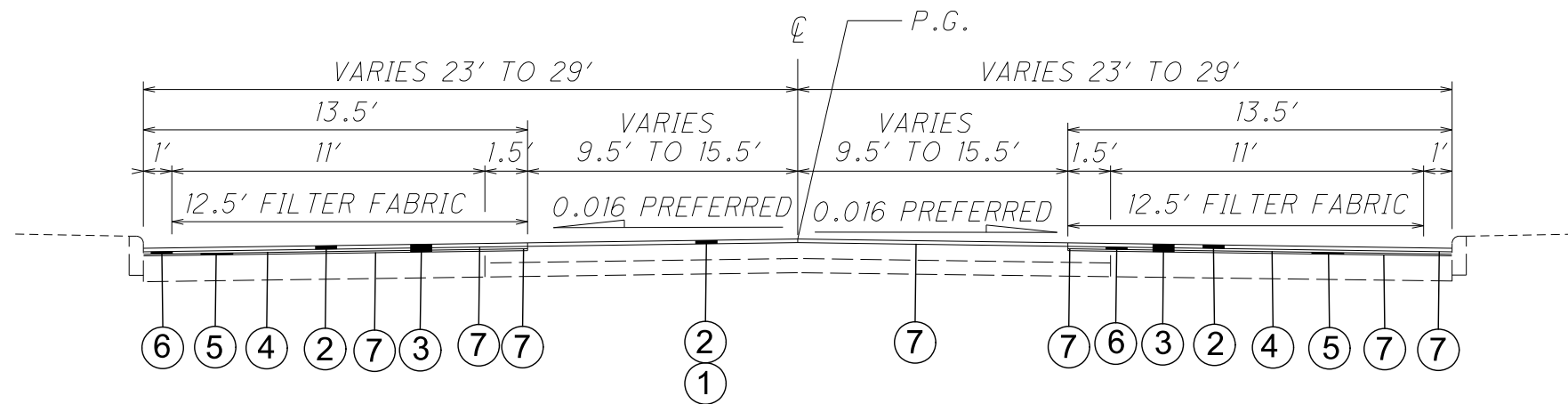
CURRENT ADT (2018)	2400
DESIGN YEAR ADT (2030)	2400
DESIGN HOURLY VOLUME (2030)	240
DIRECTIONAL DISTRIBUTION	0.54
TRUCKS (24 HOUR B&C)	0.04
DESIGN SPEED	35
LEGAL SPEED	40
DESIGN FUNCTIONAL CLASSIFICATION	URBAN PRINCIPAL ARTERIAL
NHS PROJECT	YES

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**TYPICAL 1**

US 42 10.66 TO 11.38 = 0.72 MI  
 US 42D 0.00 TO 0.11 = 0.11 MI  
 SR 13S 0.92 TO 1.04 = 0.12 MI  
 SR 430 5.69 TO 6.01 = 0.32 MI  
 TOTAL = 1.27 MI



**TYPICAL 2**

US 42 7.84 TO 10.66 = 2.82 MI

PROPOSED LEGEND

- ① 254 1.5" PAVEMENT PLANING, ASPHALT CONCRETE
- ② 441 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), AS PER PLAN, PG70-22M
- ③ 254 3.25" PAVEMENT PLANING, ASPHALT CONCRETE
- ④ 690 SPECIAL - PAVEMENT OVERLAY FABRIC COMPOSITE
- ⑤ 441 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), AS PER PLAN (PG64-22)
- ⑥ 441 1" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), AS PER PLAN (PG64-22)
- ⑦ 407 NON-TRACKING TACK COAT

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# GENERAL

## UTILITIES

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.

AT&T OF OHIO  
SABRENA LAMPLEY-TALBERT  
50 WEST BOWERY STREET  
AKRON, OHIO 44308  
330-384-8057  
SL6343@ATT.COM

CENTURYLINK (FORMERLY SPRINT)  
TIM BOWSER  
175 ASHLAND ROAD  
P.O. BOX 3758  
MANSFIELD, OHIO 44907  
419-755-7956  
TIM.BOWSER@CENTURYLINK.COM

CHARTER COMMUNICATIONS  
RON FERDINAND  
1575 LEXINGTON AVE.  
MANSFIELD, OHIO 44907  
330-494-9200 EXT.330-555-3003  
RONALD.FERDINAND@CHARTER.COM

CITY OF MANSFIELD  
BOB BIANCHI  
30 NORTH DIAMOND STREET  
MANSFIELD, OHIO 44902  
419-755-9702 OFFICE  
RBIANCHI@CI.MANSFIELD.OH.US

COLUMBIA GAS OF OHIO  
JERROD SWINEHART  
1021 N. MAIN ST.  
MANSFIELD, OHIO 44903  
419-528-1137  
JSWINEHART@NISOURCE.COM

OHIO EDISON COMPANY  
TRAVIS BALLOG  
1717 ASHLAND ROAD  
MANSFIELD, OHIO 44905  
419-521-6213  
BALLOGT@FIRSTENERGYCORP.COM

ONECOMMUNITY  
JIM BYRNE  
800 W. ST. CLAIR AVENUE  
CLEVELAND, OH 44113  
216-581-7972  
JBYRNE@ONECOMMUNITY.ORG

VERIZON BUSINESS (FORMERLY MCI)  
ALLAN GUEST  
120 RAVINE STREET  
AKRON, OHIO 44303  
330-253-8267  
ALLAN.GUEST@VERIZONBUSINESS.COM

WINDSTREAM  
BUD GRABER  
100 OWEN BROWN STREET  
HUDSON, OHIO 44236  
330-650-8434 OFFICE  
PAUL.GRABER.JR@WINDSTREAM.COM

ZAYO GROUP  
JAMES POHLOD  
4199 KINROSS LAKES PKWY, STE 10  
RICHFIELD, OH 44286  
330.237.6536  
JAMES.POHL0D@ZAYO.COM

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.

## 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.

## WORK LIMITS

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.

## 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.

## ROADWAY

### 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 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  
ITEM 623 - MONUMENT BOX ADJUSTED TO GRADE 1 EACH

## PAVEMENT

### INTERSECTIONS AND DRIVES

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

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.

## RECLAIMED MATERIALS

- A. PROPOSED MATERIALS SHALL BE FROM THE MANSFIELD CITY STREETS AND FREE OF DEBRIS OR OTHER EXTRANEIOUS MATERIALS. IF RECLAIMED MATERIAL IS NOT AVAILABLE FROM ABOVE SOURCE, PROCESS AND BLEND THE RECLAIMED MATERIAL TO BE USED INTO A UNIFORM STOCKPILE AND TEST TO LEVEL 3 MIX DESIGN REQUIREMENTS.
- B. THE LOCATION OF PROPOSED RECLAIMED MATERIAL SHALL BE PLAINLY IDENTIFIED. APPROVAL OF SAID MATERIAL INSPECTED BY THE ENGINEER AND/OR HIS QUALITY ASSURANCE REPRESENTATIVE IS REQUIRED PRIOR TO PRODUCTION.
- C. THE CONTRACTOR SHALL SUBMIT A MINIMUM OF THREE (3) TESTS FOR ASPHALT CEMENT CONTENT AND GRADATIONS AND ONE ABSOLUTE VISCOSITY ALONG WITH THE JOB MIX FORMULA.
- D. THE RECLAIMED MATERIAL SHALL BE CRUSHED AND SCREENED PRIOR TO INCORPORATION INTO THE MIX. ANY OVERSIZED MATERIAL MAY BE CAUSE FOR REJECTION.
- E. PLANT PRODUCTION RATES SHALL BE AT A TPH (TONS PER HOUR) RATE TO ASSURE ADEQUATE BLENDING OF THE RECYCLED WITH THE VIRGIN MATERIALS.
- F. FAILURE TO INCORPORATE THE RECLAIMED MATERIAL INTO THE MIX IN A MANNER SATISFACTORY TO THE ENGINEER AND HIS QUALITY ASSURANCE REPRESENTATIVE MAY RESULT IN LOAD REJECTION UNTIL CORRECTIONS ARE MADE.

## QUALITY CONTROL

ON THIS PROJECT, THE CONTRACTOR SHALL PROVIDE AN ASPHALT CONTENT NUCLEAR GAUGE (AC GAUGE) FOR USE IN CONTROLLING THE PRODUCTION OF ALL ASPHALT CONCRETE MIXES. THIS AC GAUGE SHALL BE A TROXLER 3241-C WITH A 100MCI +/- 10 PERCENT AM-24I: BE NEUTRON SOURCE OR AN EQUIVALENT GAUGE WITH A 100MCI +/- 10 PERCENT SOURCE AND THE CAPABILITY OF TRANSFERRING ITS CALIBRATION DATA IN ACCORDANCE WITH SUPPLEMENT 1043 TO A TROXLER GAUGE MEETING THE ABOVE REQUIREMENTS. THE AC GAUGE SHALL BE CALIBRATED IN ACCORDANCE WITH SUPPLEMENT 1043 BY AN EMPLOYEE OF THE CONTRACTOR WITH A LEVEL I RATING (SUPPLEMENT 1041). THE QUALITY ASSURANCE REPRESENTATIVE SHALL BE PRESENT WHEN THE AC GAUGE IS CALIBRATED.

THE CONTRACTOR'S U.S. NUCLEAR REGULATORY COMMISSION MATERIALS LICENSE AND RADIATION SAFETY PROGRAM SHALL ALLOW THE USE OF THE CONTRACTOR'S AC GAUGE BY TESTING LABORATORY PERSONNEL AT THE CONTRACTOR'S PLANT SITE.

## RECLAIMED MATERIALS

- A. USE ONLY STEEL WHEEL AND PNEUMATIC TIRE TYPES OF ROLLERS MEETING THE MINIMUM REQUIREMENTS OF SECTION 401.13 OF THE SPECIFICATIONS.
- B. WHEN THE TONNAGE PRODUCTION PER HOUR AND THE AREA OF COVERAGE REQUIRES THE USE OF THREE (3) ROLLERS, THE ROLLERS WILL BE IN A SEQUENCE THAT ASSURES ADEQUATE COMPACTION AND GOOD AESTHETICS. ANY CHANGE IN ROLLERS REQUIRED MUST BE APPROVED BY THE ENGINEER PRIOR TO THE DAYS PRODUCTION. THE TONNAGE REQUIREMENTS AND SQUARE YARD COVERED SHALL GOVERN, REGARDLESS OF FIELD DENSITY REQUIREMENTS UNDER ODOT SUPPLEMENTAL 1055.
- C. ROLLERS SHALL BE OPERATIONAL AT ALL TIMES. SHOULD A ROLLER BREAK DOWN, THE PLACEMENT WILL BE SLOWED TO A LESSER TONNAGE FOR THE NUMBER OF ROLLERS REMAINING UNTIL REPAIRS ARE MADE.
- D. VIBRATORY ROLLERS WILL NOT BE PERMITTED ON THIS PROJECT, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

## ASPHALT JOB MIX FORMULA REQUIREMENTS

THREE (3) COPIES OF THE FOLLOWING SHALL BE SUBMITTED TO THE QUALITY ASSURANCE REPRESENTATIVE A MINIMUM OF TWO (2) WEEKS PRIOR TO PRODUCTION:

- 1. PROPOSED JOB MIX FORMULAS, INCLUDING EFFECTIVE CEMENT CONTENT AND ABSORPTION.
- 2. PLANT OPERATIONS QUALITY CONTROL PLAN(POQCP), SUPPLEMENTAL 1056.
- 3. CURRENT PLANT CALIBRATION.
- 4. COMPUTER PRINTOUT IN ACCORDANCE WITH 402.07.
- 5. AGGREGATE PRODUCER'S QUALITY CONTROL PLANT (QCP), SUPPLEMENTAL 1069.
- 6. AGGREGATE PRODUCER'S CURRENT PRODUCTION TESTING (INCLUDING QUALITY DATA).

SHOULD ANY OF THE ABOVE ITEMS NOT BE APPROVED, NOTIFICATION WILL BE GIVEN TO THE CONTRACTOR AND HE WILL HAVE TWO (2) WEEKS TO RESUBMIT; ALLOWING TWO (2) WEEKS AFTER RESUBMITTING FOR APPROVAL. NO MIX SHALL BE PRODUCED UNTIL APPROVAL HAS BEEN GRANTED.

## 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 (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 \$1000.

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.

CALCULATED  
ERS  
CHECKED  
DUV

GENERAL NOTES

RIC-42-7.84

4  
15



**PAVEMENT (CONTINUED)**

**ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG70-22M, AS PER PLAN**

IN DEVELOPING THE JOB MIX FORMULA(S) THE FOLLOWING SPECIAL TECHNICAL PROVISIONS ARE MADE. EXCEPT AS MODIFIED HEREIN, THE MIXES SHALL MEET ALL THE OTHER REQUIREMENTS OF 441.02-1.

1. THE USE OF RECLAIMED MATERIALS IN THIS ITEM IS PROHIBITED.
2. THE MIX SHALL BE A BLEND OF LIMESTONE COARSE AND NATURAL SAND.
3. THE ASPHALT CEMENT CONTENT SHALL BE A MINIMUM OF 6.8% BY TOTAL MIX WEIGHT.
4. A MAXIMUM OF 10% MANUFACTURED SAND MAY BE USED.
5. THE PERCENTAGE PASSING THE NO. 4 SIEVE SHALL BE 60-65.
6. THE PERCENTAGE PASSING THE NO. 8 SIEVE SHALL BE 35-48.

**ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), PG64-22, AS PER PLAN**

1. A MAXIMUM OF 20% RECLAIMED MATERIALS MAY BE USED.
2. THE MIX SHALL BE A BLEND OF CRUSHED GRAVEL OR LIMESTONE COARSE AND NATURAL SAND.
3. THE ASPHALT CEMENT CONTENT SHALL BE A MINIMUM OF 6.5% BY TOTAL MIX WEIGHT.
4. THE PERCENT PASSING THE NO. 4 SIEVE SHALL BE 60-70.
5. THIS ITEM WILL NOT BE ELIGIBLE FOR ASPHALT BINDER PRICE ADJUSTMENT.

**APPROVAL AND ACCEPTANCE**

1. ALL JOB MIX FORMULAS SHALL BE A F/A RATIO (FINE TO ASPHALT RATIO) OF 1.0 OR LESS BY WASH TEST.
2. THE USE OF MANUFACTURED SAND WITH RECLAIMED MATERIALS IS NOT ALLOWED. A MAXIMUM OF 10% WILL BE ALLOWED IN VIRGIN MIXES.
3. JMF APPROVALS FOR VOIDS SHALL BE 3.0% TO 3.5%.
4. FIELD ACCEPTANCE ON VOIDS SHALL BE 2.0% TO 4.0%.
5. ALL OTHER TESTING ACCEPTED IN ACCORDANCE WITH 448 SPECIFICATIONS.

**ITEM 301, ASPHALT CONCRETE BASE, PG64-22, AS PER PLAN**  
THIS ITEM SHALL BE USED FOR PAVEMENT REPAIRS ONLY.

1. A MAXIMUM OF 30% RECLAIMED MATERIALS MAY BE USED.
2. THE MIX SHALL BE A BLEND OF CRUSHED GRAVEL OR LIMESTONE COARSE AND NATURAL SAND.
3. THE ASPHALT CEMENT CONTENT SHALL BE A MINIMUM OF 5.5% BY TOTAL MIX WEIGHT.
4. THE PERCENT PASSING THE NO. 4 SIEVE SHALL BE 42-52.
5. THIS ITEM WILL NOT BE ELIGIBLE FOR ASPHALT BINDER PRICE ADJUSTMENT.

**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.

**PART-WIDTH CONSTRUCTION**

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXTREME CARE SHALL BE TAKEN TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LONGITUDINAL JOINTS SHALL BE LAPPED AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

**PAVEMENT CORING INFORMATION**

Cou	Route	SLM	Asph	Concre	Bri	Location	Direct	Year Cor
RIC	13S	1.00	9.0	0.0	3.5	MWP	NB	2017
RIC	42D	0.00	5.0	0.0	4.0	MWP	SB	2017
RIC	42	8.00	4.0	8.5	0.0	LWP	NB	2017
RIC	42	8.10	4.0	7.0	0.0	LWP	NB	2017
RIC	42	8.50	4.0	7.0	0.0	LWP	NB	2017
RIC	42	8.50	5.0	8.0	0.0	LWP	NB	2017
RIC	42	9.00	5.0	7.0	0.0	RWP	NB	2017
RIC	42	9.00	5.0	7.0	0.0	MWP	NB	2017
RIC	42	9.45	10.0	0.0	0.0	Lane Line	NB	2017
RIC	42	10.00	11.0	0.0	0.0	Lane Line	NB	2017
RIC	42	10.00	4.0	8.0	0.0	RWP	NB	2017
RIC	42	10.30	9.0	0.0	4.0	LWP	NB	2017
RIC	42	10.30	10.0	0.0	4.0	MWP	NB	2017
RIC	42	10.80	5.0	9.0	4.0	LWP	NB	2017
RIC	42	10.80	4.5	8.0	0.0	MWP	NB	2017
RIC	42	10.90	5.0	1.0	4.0	MWP	NB	2017
RIC	42	11.00	6.0	0.0	4.0	LWP	NB	2017
RIC	42	11.10	5.0	0.0	4.0	LWP	NB	2017
RIC	42	11.20	5.0	0.0	4.0	LWP	NB	2017
RIC	42	11.30	9.5	0.0	4.0	MWP	NB	2017

**ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR, MISC.: 301**  
**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. ITEM 253 PAVEMENT REPAIR, AS PER PLAN SHALL BE USED FOR TRANSVERSE REPAIRS AND OTHER SMALL AREA FULL DEPTH REPAIRS AS DIRECTED BY THE ENGINEER. ITEM 251 PARTIAL DEPTH PAVEMENT REPAIR SHALL BE USED FOR LONGITUDINAL REPAIRS.

THE ENGINEER SHALL DESIGNATE THE LOCATIONS AND LIMITS OF THE AREAS TO BE REPAIRED. PAVEMENT REPAIR SHALL BE PERFORMED PRIOR TO PAVEMENT PLANING AND BEFORE PLACEMENT OF THE SURFACE COURSE. THE REPAIR AREAS SHALL BE SAW CUT AND EXCAVATED TO PROVIDE STRAIGHT AND VERTICAL SURFACES AROUND THE PERIMETER OF THE REPAIR AREA. PAVEMENT PLANING MAY BE USED AS AN ALTERNATIVE TO SAW CUTTING AND EXCAVATING. THE PAVEMENT SHALL BE REMOVED WITHIN THE DESIGNATED AREAS BY METHODS WHICH WILL NOT DAMAGE ADJACENT PAVEMENT. THE DEPTH OF REMOVAL SHALL BE SUFFICIENT TO REMOVE ALL DETERIORATED PAVEMENT. THE MATERIALS REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH 105.16 AND 105.17.

THE CONTRACTOR SHALL BE CAPABLE OF PERFORMING PAVEMENT REPAIRS 2 FEET WIDE.

REPLACEMENT MATERIAL SHALL BE ITEM 301, AS PER PLAN OR ITEM 441, TYPE 2, AS PER PLAN AND SHALL BE PLACED AND COMPACTED TO FINISH FLUSH WITH THE ADJACENT PAVEMENT SURFACE. ITEM 301 ASPHALT CONCRETE, PG64-22, AS PER PLAN CAN BE USED WHEN THE DEPTH OF THE REPAIR IS BETWEEN 3" AND 12" WITH A MAXIMUM PAVEMENT LIFT OF 6". ITEM 441, TYPE 2, AS PER PLAN CAN BE USED WHEN THE DEPTH OF THE REPAIR IS BETWEEN 1.5" AND 5" WITH A MAXIMUM PAVEMENT LIFT OF 3". THE CONTRACTOR HAS THE OPTION OF USING EITHER ITEM 301, AS PER PLAN OR ITEM 441, TYPE 2, AS PER PLAN MATERIAL WHEN THE PAVEMENT REPAIR IS BETWEEN 3" AND 5" DEEP. ITEM 441, TYPE 2, AS PER PLAN MATERIAL SHALL BE PG64-22 FOR MEDIUM MIX DESIGN PAVEMENTS AND PG64-28 FOR HEAVY MIX DESIGN PAVEMENTS. ALL EXISTING PAVEMENT AREAS WHICH WILL BE IN CONTACT WITH THE PAVEMENT REPAIR SHALL BE CLEANED AND COATED PER CMS 401.14, USING AN ASPHALT MATERIAL COMPLYING WITH 407.02. ALL COMPACTION SHALL BE ACHIEVED BY MECHANICAL METHODS TO THE SATISFACTION OF THE ENGINEER.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE PAVEMENT REPAIR. FOR PAYMENT PURPOSES ITEM 251 PARTIAL DEPTH PAVEMENT REPAIR, MISC.: 301 IS TO BE A MAXIMUM OF 5" DEEP AND ITEM 253 PAVEMENT REPAIR, AS PER PLAN IS FOR DEPTHS GREATER THAN 5". IF ANY TRANSVERSE REPAIRS ARE LESS THAN 5", THEY SHALL STILL BE PAID FOR UNDER ITEM 253 PAVEMENT REPAIR, AS PER PLAN. PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER CUBIC YARD, (BY TICKET WEIGHT CONVERSION), OF ITEM 253, PAVEMENT REPAIR, AS PER PLAN OR ITEM 251 PARTIAL DEPTH PAVEMENT REPAIR, MISC.: 301. BELOW IS AN ESTIMATE OF THE REPAIRS AND THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER:

	MILE	LENGTH	WIDTH	VOLUME
42 NB, LT	7.84	106	4	5
	8	1056	4	52
		211	4	10
		686	4	34
		422	4	21
		422	4	21
		370	4	18
	9	1109	4	55
		581	4	29
		898	4	44
	10	264	4	13
		845	4	42
	11	528	8	52
			TOTAL =	396

	MILE	LENGTH	WIDTH	VOLUME
42 NB, RT	7.84	422	4	21
	8	106	4	5
		264	4	13
		106	4	5
		106	4	5
		211	4	10
	9	317	4	16
		106	4	5
	10	158	4	8
		158	4	8
		106	4	5
		106	4	5
	11	264	4	13
		264	4	13
			TOTAL =	132

	MILE	LENGTH	WIDTH	VOLUME
42 SB, LT	11	528	4	26
		106	4	5
		158	4	8
		158	4	8
		106	4	5
		158	4	8
		264	4	13
		475	4	23
	10	792	4	39
		898	4	44
		792	4	39
		264	4	13
		53	4	3
	9	581	4	29
		370	4	18
		106	4	5
		106	4	5
		211	4	10
		211	4	10
			TOTAL =	321

	MILE	LENGTH	WIDTH	VOLUME
430 WB	6	158	4	43
		317	4	16
		211	4	10
			TOTAL =	69
430 EB	5.69	158	4	8
		158	4	8
		370	6	27
		53	4	3
			TOTAL =	46

	MILE	LENGTH	WIDTH	VOLUME
42 SB, RT	11.38	370	6	27
		264	4	13
	11	264	4	13
		211	4	10
		211	4	10
		317	4	16
		106	4	5
		158	4	8
		53	4	3
		264	4	13
		106	4	5
	10	211	6	16
		317	4	16
		106	4	5
		211	4	10
	9	106	4	5
		158	4	8
		106	4	5
			TOTAL =	188

	MILE	LENGTH	WIDTH	VOLUME
13 SB	0	106	4	5
			TOTAL =	5
42D EB	0	106	4	5
		53	4	3
			TOTAL =	8

ITEM 251 1165 CY  
CONTINGENCY 35 CY  
TOTAL = 1200 CY

ITEM 253 CONTINGENCY 60 CY

02/NHS/PV/MANS  
ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR, MISC: 301 100 CY  
ITEM 253 - PAVEMENT REPAIR 10 CY

04/S<2/PV  
ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR, MISC: 1100 CY  
ITEM 253 - PAVEMENT REPAIR 50 CY

**ITEM 623 - CONSTRUCTION LAYOUT STAKES**

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL IDENTIFY AND MEASURE ALL EXISTING CASTING LOCATIONS AND PAVEMENT MARKINGS. IN ADDITION, THE CONTRACTOR SHALL IDENTIFY AND MARK ALL LOCATIONS OF EXISTING ASPHALT WEDGES AT DRIVEWAYS AND ALONG ROADWAY.

ALL INFORMATION SHALL BE RECORDED UTILIZING GLOBAL POSITIONING SYSTEM (GPS) EQUIPMENT WITH DECIMETER ACCURACY. THE INFORMATION SHALL BE SUBMITTED IN A HARD COPY (SHOWN WITH AERIAL VIEW PHOTOMETRY PRINTED TO SCALE IN COLOR), A PDF ELECTRONIC FILE AND IN SHP ELECTRONIC FILE FORMAT COMPATIBLE WITH ARCVIEW 10.2. THE AERIAL VIEW PHOTOS MUST HAVE ALL STREETS LABELED AND ALL INFORMATION SHOWN AS IT IS IN THE FIELD SUCH AS COLOR OF CENTERLINES, LANE LINES, AND SHAPES SUCH AS CATCH BASINS AND MANHOLES, ETC

AS STATED IN PARAGRAPH 1 OF THIS SECTION, ALL PAVEMENT MARKINGS ARE TO BE IDENTIFIED AND THIS INFORMATION IS TO BE USED TO LAYOUT PAVEMENT MARKINGS FOR THE PAVEMENT MARKING CONTRACTOR. THE PRIME CONTRACTOR WILL BE RESPONSIBLE FOR LAYOUT OF ALL EXISTING PAVEMENT MARKINGS OR SUPPLY THE PAVEMENT MARKING CONTRACTOR WITH ALL INFORMATION NEEDED TO LAYOUT MARKINGS. ALL STREETS WILL BE STRIPED THE SAME AS EXISTING MARKINGS, UNLESS OTHERWISE SHOWN IN PLAN OR DIRECTED BY THE ENGINEER..

THE CONTRACTOR SHALL SUPPLY THIS INFORMATION TO THE ENGINEER FOR REVIEW A WEEK PRIOR TO CONSTRUCTION.

ALL WORK MENTIONED ABOVE SHALL BE PAID FOR UNDER THE CONTRACT PRICE OF ITEM 623, CONSTRUCTION LAYOUT STAKES, AS PER PLAN.

CALCULATED  
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CHECKED  
DUV

GENERAL NOTES

RIC-42-7.84

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## DRAINAGE

### ITEM 611 - MANHOLE ADJUSTED TO GRADE, AS PER PLAN

PRIOR TO PERFORMING ITEM 254, PAVEMENT PLANING, ASPHALT CONCRETE, THE CONTRACTOR SHALL REMOVE FOR STORAGE THE CASTING FRAME AND COVER AND DISPOSE OF ANY ASSOCIATED MATERIAL. THE FRAME AND COVER SHALL BE MARKED TO IDENTIFY ITS LOCATION. THE OPEN STRUCTURES SHALL BE PLATED AND THE OPEN AREA FILLED WITH ASPHALT MATERIAL, MATCHING THE ADJACENT GRADE. FOLLOWING THE PAVING OPERATION, THE CONTRACTOR SHALL LOCATE AND EXPOSE THE STRUCTURE. THE CONTRACTOR SHALL RE-INSTALL THE FRAME AND COVER AT ITS ORIGINAL LOCATION. PRIOR TO INSTALLATION, THE CONTRACTOR SHALL VERIFY THAT THE FRAME RING AND COVER ARE FLUSH. THE MANHOLE FRAME AND COVER SHALL BE ADJUSTED TO THE NEW GRADE IN ACCORDANCE WITH THE TYPICAL SECTION SHOWN ON CITY STANDARD DRAWING NO. 1405. ADJUSTING THE MANHOLE BY USING PERMANENT ADJUSTING DEVICES IS NOT PERMITTED.

IF THE ORIGINAL FRAME AND/OR COVER IS UNSUITABLE FOR REUSE, AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL OBTAIN A SUITABLE FRAME AND/OR COVER FROM THE CITY S SEWER REPAIR DEPARTMENT. THE SUITABLE FRAME AND/OR COVER WILL BE PROVIDED BY THE CITY AT NO COST TO THE CONTRACTOR.

THE ADJACENT PAVEMENT SHALL BE FLUSH WITH THE CASTING AND CASTING APRON WITH A DIFFERENCE IN ELEVATION NOT TO EXCEED 1/8 INCH. THE ENGINEER WILL INSPECT EACH CASTING USING A 10 FOOT HAND LEVEL PROVIDED BY THE CONTRACTOR.

EXTRA CARE SHALL BE EXERCISED TO PREVENT DEBRIS AND CONCRETE FROM ENTERING THE FLOW OF SEWERS. AFTER THE JOB IS COMPLETE, THE CONTRACTOR SHALL OPEN ALL MANHOLES FOR FINAL INSPECTION. THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE CITY SEWER REPAIR DEPARTMENT TO EXCHANGE OUTDATED "DOME SHAPED" MANHOLE CASTINGS DURING THE ADJUSTMENT PHASE.

PAYMENT FOR ITEM 611, MANHOLE ADJUSTED TO GRADE, AS PER PLAN, SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO PERFORM THE ITEM OF WORK AS DESCRIBED IN THIS SECTION. BASIS OF PAYMENT WILL BE AT THE CONTRACT BID PRICE FOR EACH.

#### MANHOLE QUANTITIES:

SUB TOTAL	226 EACH
15% CONTINGENCY	<u>34 EACH</u>

01/NHS/PV	
TOTAL:	25 EACH

03/S<2/PV	
TOTAL:	235 EACH

### 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.

## WATERWORKS

### ITEM 638 - VALVE BOX ADJUST TO GRADE, AS PER PLAN

PRIOR TO PERFORMING ITEM 254, PAVEMENT PLANING, ASPHALT CONCRETE, THE CONTRACTOR SHALL LOWER THE VALVE BOX OR REMOVE THE VALVE BOX FOR STORAGE AND REMOVE AND DISPOSE OF ANY ASSOCIATED MATERIAL. THE OPEN AREA SHALL BE PLATED AND FILLED WITH ASPHALT MATERIAL, MATCHING THE ADJACENT GRADE. FOLLOWING THE PAVING OPERATION, THE CONTRACTOR SHALL LOCATE AND EXPOSE THE VALVE BOX LOCATION. THE CONTRACTOR SHALL RAISE OR INSTALL THE STORED VALVE BOX. IF THE ORIGINAL VALVE BOX IS UNSUITABLE FOR REUSE, AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL OBTAIN A SUITABLE VALVE BOX FROM THE CITY S WATER REPAIR DEPARTMENT. THE SUITABLE VALVE BOX WILL BE PROVIDED BY THE CITY AT NO COST TO THE CONTRACTOR. THE VALVE BOX SHALL BE ADJUSTED TO THE NEW GRADE IN ACCORDANCE WITH THE TYPICAL SECTION SHOWN ON CITY STANDARD DRAWING NO. 1405.

THE ADJACENT PAVEMENT SHALL BE FLUSH WITH THE VALVE BOX AND VALVE BOX APRON WITH A DIFFERENCE IN ELEVATION NOT TO EXCEED 1/8 INCH. THE ENGINEER WILL INSPECT EACH VALVE BOX USING A 10 FOOT HAND LEVEL PROVIDED BY THE CONTRACTOR.

PAYMENT FOR ITEM 638, VALVE BOX ADJUST TO GRADE, AS PER PLAN, SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO PERFORM THE ITEM OF WORK AS DESCRIBED IN THIS SECTION. BASIS OF PAYMENT WILL BE AT THE CONTRACT BID PRICE FOR EACH.

VALVE BOX QUANTITIES:	
SUB TOTAL	91 EACH
15% CONTINGENCY	<u>14 EACH</u>

01/NHS/PV	
TOTAL:	14 EACH

03/S<2/PV	
TOTAL:	91 EACH

## MAINTENANCE OF TRAFFIC

### ITEM 614 - MAINTAINING TRAFFIC LANE CLOSURE/REDUCTION REQUIRED

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 SEGMENTS 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.

### ITEM 614 - MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)

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 WEEK	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	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
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	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 IN THE AMOUNT OF \$50 FOR EACH MINUTE THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

### 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 AND MANSFIELD POLICE.

NIGHT WORK IS PERMITTED. NO JACK HAMMER WORK BETWEEN 7:00 P.M. TO 7:00 A.M.

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.

### ESTIMATED QUANTITIES - MAINTENANCE OF TRAFFIC

THE FOLLOWING ESTIMATED QUANTITY HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR MAINTENANCE OF TRAFFIC.

01/NHS/PV  
ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC 50 CY

### 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

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 OMTCD, 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.

### 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

THE CONTRACTOR SHALL SCHEDULE THEIR WORK AND METHODS IN ORDER TO MEET THE INTENT 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.

**ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN**

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN, AND REMOVE WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN(S) ON SITE FOR THE DURATION OF THE PROJECT. THE SIGN(S) SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS MAINTAINED BY THE DIRECTOR (OFFICE OF MATERIALS MANAGEMENT). THE APPROVED LIST OF PORTABLE CHANGEABLE MESSAGE SIGNS CAN BE FOUND ON THE ODOT WEB SITE BY CLICKING ON THE SERVICES MENU, THEN CLICKING ON MATERIALS MANAGEMENT. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 650 FT AND 475 FT RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM TO DIM THE SIGN DURING DARKNESS AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN(S) SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. PCMS TRAILERS SHALL BE DELINEATED ON A PERMANENT BASIS BY AFFIXING CONSPICUITY TAPE CONFORMING TO CMS 614.03 IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER AS SEEN BY ONCOMING ROAD USERS.

THE PROBABLE PCMS LOCATIONS WILL BE DETERMINED BY THE ENGINEER PRIOR TO BEGINNING WORK ON THIS PROJECT. PLACEMENT, OPERATIONS, MAINTENANCE, AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AD DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION, YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED TO FACE AWAY FROM TRAFFIC AND SHALL DISPLAY A MINIMUM OF ONE YELLOW RETROREFLECTIVE SHEETING SURFACE, A MINIMUM OF 9 INCHES BY 15 INCHES IN SIZE, FACING TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT AND TO REVISE SIGN MESSAGES IF NECESSARY.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PREPROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PREPROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED, OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE PCMS SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL, IN ACTIVE CELLULAR PHONE AREAS, ALLOW REMOTE SIGN ACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS, AND REVISION TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES. ONE REMOTE DATA LINK INPUT DEVICE (LAPTOP COMPUTER PLUS MODEM OR EQUIVALENT) SHALL BE FURNISHED FOR USE BY THE DISTRICT TRAFFIC ENGINEER OR EQUIVALENT, AND SHALL BE INSURED AGAINST THEFT.

THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF CMS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE WILL BE DEDUCTED FROM MONEYS DUE OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24 HOUR PER DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE, AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK. THE CONTRACTOR SHALL ONLY BE PAID FOR PCMS UNITS WHEN THEY ARE IN OPERATION ON THE PROJECT AS SPECIFIED IN THE PLANS OR BY THE ENGINEER.

ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 10 SIGN-MONTH

**ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR 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 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

2255 SOUTH MAIN ST  
MANSFIELD, OHIO 44907  
419.756.2222

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  
456 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.

**TRAFFIC CONTROL**

**PAVEMENT MARKING NOTE**

ALL EXISTING PAVEMENT MARKINGS SHALL BE LOCATED AND RECORDED PRIOR TO PLANING OPERATIONS. NEW PAVEMENT MARKINGS SHALL BE REPLACED IN THE SAME LOCATION UNLESS DIRECTED BY THE ENGINEER.

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GENERAL NOTES

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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.

MATERIALS. PAVEMENT OVERLAY FABRIC COMPOSITE SHALL BE STARGRID G+PF. 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	SPECIFICATION	TEST METHOD
<b>PAVING FABRIC:</b>		
GRAB TENSILE STRENGTH, LBS	90 MIN.	ASTM D 1682
GRAB ELONGATION, PERCENT	50 MIN.	ASTM D 1682
ASPHALT RETENTION GAL/SY	0.20 MIN	AASHTO M-288
<b>COMPOSITE</b>		
ULTIMATE TENSILE STRENGTH LBS/FT	MD 3426 MIN. XD 3426 MIN.	ASTM D 4595
MAXIMUM ELONGATION	LESS THAN 3%	ASTM D 4595
APERTURE GRID SIZE	1.2" X 1.2"	
MELTING POINT (F)	425 OR GREATER	ASTM D 276
TOTAL COMPOSITE WEIGHT	10.3 OZ/SY MIN	ASTM D 5261

THE COMPOSITE FABRIC SHALL NOT BE EXPOSED TO ULTRAVIOLET RADIATION FOR MORE THAN 7 DAYS. THE FABRIC WIDTH SHALL BE INDICATED ON THE TYPICAL CROSS SECTION AND FURNISHED IN ROLLS.

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 ADDITION 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. CARE 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 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 FABRIC.

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 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 THE ASPHALT CONCRETE. IT IS UNNECESSARY TO TACK COAT THE FABRIC PRIOR TO PLACEMENT OF THE OVERLAY UNLESS THERE ARE CIRCUMSTANCES SUCH AS DELAY OF OVERLAY, DUST ACCUMULATION OR UNDER APPLICATION OF SEALANT WHICH WOULD MAKE TACK COATING DESIRABLE. IF A TACK COAT IS REQUIRED, EMULSIFIED ASPHALT SHALL BE APPLIED AT A RATE OF 0.02 TO 0.05 GALLON PER SQUARE YARD RESIDUAL ASPHALT. PLACEMENT OF THE ASPHALT CONCRETE OVERLAY SHALL CLOSELY FOLLOW FABRIC LAYDOWN. IN THE EVENT THAT THE 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. IF RAIN PRIOR TO THE OVERLAY SHOULD CAUSE A BLISTERED APPEARANCE AND SOME BOND LOSS THROUGHOUT THE MEMBRANE, IT SHOULD BE CORRECTED BY PNEUMATIC ROLLING UNTIL ADHESION IS RESTORED.

5. ASPHALT CONCRETE. THE ASPHALT CONCRETE OVERLAY SHALL CONFORM TO 401 SPECIFICATION WITH A MINIMUM THICKNESS OF 1.5.

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 WILL 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.

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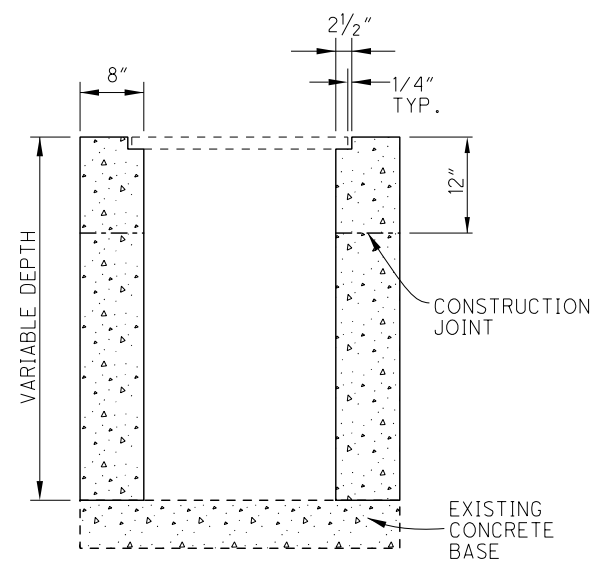
COUNTY	ROUTE	LOG POINT TO LOG POINT		LENGTH		WIDTH FEET AVG.	*TYPICAL	PAVEMENT AREA	254				690	407		441		441		441	
				MILE	FEET				PAVEMENT PLANING, ASPHALT CONCRETE (3.25")	PAVEMENT PLANING, ASPHALT CONCRETE (1.50")	PATCHING PLANED SURFACE	SPECIAL - PAVEMENT OVERLAY FABRIC COMPOSITE (06/MPO/PV)	NON-TRACKING TACK COAT @ 0.08 GAL/SY	NON-TRACKING TACK COAT FOR INTERM. COURSE @ 0.05 GAL/SY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), AS PER PLAN, PG70-22		ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), AS PER PLAN, PG64-22		ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), AS PER PLAN, PG64-22		
		STRAIGHT LINE MILEAGE		SY	SY	SY	SY	SY	SY	SY	SY	GAL	GAL	INCH	CY	INCH	CY	INCH	CY		
RIC	42	7.84	8.00	0.16	845	48.0	2	4,507	2,535	1,972	45	2,347	361	254	1.5	188	1	70	0.75	53	
		8.00	8.20	0.20	1056	48.0	2	5,632	3,168	2,464	56	2,933	451	316	1.5	235	1	88	0.75	66	
		8.20	8.30	0.10	528	58.0	2	3,403	1,584	1,819	34	1,467	272	158	1.5	142	1	44	0.75	33	
		8.30	8.45	0.15	792	48.0	2	4,224	2,376	1,848	42	2,200	338	238	1.5	176	1	66	0.75	50	
		8.45	8.50	0.05	264	58.0	2	1,701	792	909	17	733	136	80	1.5	71	1	22	0.75	17	
		8.50	8.95	0.45	2376	47.0	2	12,408	7,128	5,280	124	6,600	993	712	1.5	517	1	198	0.75	149	
		8.95	9.00	0.05	264	58.0	2	1,701	792	909	17	733	136	80	1.5	71	1	22	0.75	17	
		9.00	9.20	0.20	1056	46.5	2	5,456	3,168	2,288	55	2,933	436	316	1.5	227	1	88	0.75	66	
		9.20	9.36	0.16	845	56.0	2	5,258	2,535	2,723	53	2,347	421	254	1.5	219	1	70	0.75	53	
		9.36	9.50	0.14	739	47.0	2	3,859	2,217	1,642	39	2,053	309	222	1.5	161	1	62	0.75	46	
		9.50	9.78	0.28	1478	47.0	2	7,718	4,434	3,284	77	4,106	617	444	1.5	322	1	123	0.75	92	
		9.78	9.88	0.10	528	56.0	2	3,285	1,584	1,701	33	1,467	263	158	1.5	137	1	44	0.75	33	
		9.88	10.00	0.12	634	47.0	2	3,311	1,902	1,409	33	1,761	265	190	1.5	138	1	53	0.75	40	
		10.00	10.12	0.12	634	58.0	2	4,086	1,902	2,184	41	1,761	327	190	1.5	170	1	53	0.75	40	
		10.12	10.42	0.30	1584	47.0	2	8,272	4,752	3,520	83	4,400	662	476	1.5	345	1	132	0.75	99	
		10.42	10.50	0.08	422	58.0	2	2,720	1,266	1,454	27	1,172	218	126	1.5	113	1	35	0.75	26	
		10.50	10.66	0.16	845	47.0	2	4,413	2,535	1,878	44	2,347	353	254	1.5	184	1	70	0.75	53	
		10.66	10.69	0.03	158	80.0	1	1,404		1,404	14		112		1.5	59					
		10.69	10.73	0.04	211	59.0	1	1,383		1,383	14		111								
		10.73	10.87	0.14	739	48.0	1	3,941		3,941	39		315		1.5	164					
		10.87	10.90	0.03	158	70.0	1	1,229		1,229	12		98		1.5	51					
RIC	42 N	10.90	11.00	0.10	528	39.0	1	2,288		2,288	23		183		1.5	95					
		11.00	11.38	0.38	2006	31.0	1	6,910		6,910	69		553		1.5	288					
RIC	42 D	0.00	0.11	0.11	581	32.0	1	2,066		2,066	21		165		1.5	86					
RIC	13 S	0.92	1.04	0.12	634	34.0	1	2,395		2,395	24		192		1.5	100					
RIC	430	5.69	6.01	0.32	1690	33.0	1	6,197		6,197	62		496		1.5	258					
EXTRA AREA FOR INTERSECTIONS																					
EXTRA AREA FOR PAVED DRIVES																					
EXTRA AREA FOR AGGREGATE DRIVES																					
EXTRA AREA FOR EX. & PR. MAILBOX APPROACHES																					
TOTALS TO THE GENERAL SUMMARY 01/NHS/PV									0	7,957		79	0	636	0	274	0	0			
TOTALS TO THE GENERAL SUMMARY 03/S<2/PV									44,670	57,140		1,019	41,360	8,147	4,468	4,243	1,240	933			
TOTALS TO THE GENERAL SUMMARY									44,670	65,097		1,098	41,360	8,783	4,468	4,517	1,240	933			

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**PAVEMENT & SHOULDER DATA**  
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**Catch Basins Reconstructed to Grade  
2018 Urban Paving**

STREET	LOCATION	SIDE	Depth	No. of GRATES	Pay Qty	COMMENTS
<b>Lexington Ave</b>	1344	W	7.0	1	1	
	Harter	NE	5.0	1	1	
<b>1st Street</b>	Franklin	NW	3.5	1	1	
	Franklin	SW	3.5	1	1	
	Franklin	SE	2.5	1	1	OG
	Franklin	NE	3.5	1	1	OG
	Adams	SE	3.0	2	1	OG
	Hedges	SW	5.5	1	1	OG
	Hedges	NW	4.5	1	1	OG
<b>Hedges St.</b>	2nd	SE	3.0	2	1	
	2nd	NW	2.0	1	1	
	2nd	SW	3.5	2	1	OG
<b>2nd St.</b>	Hedges	NW	3.0	2	1	OG
	Walnut	SW	3.5	4	1	OG
<b>Park Ave East</b>	SE of Universal Motors	S	Unk	1	1	OG
	389	S	3.0	1	1	
	389	N	3.0	1	1	
	100' E of Mansf Structural Steel	N	3.5	1	1	OG
	100' E of Mansf Structural Steel	S	3.0	1	1	
	429 (Driveway)	N	5.5	1	1	OG
	429	N	Unk	1	1	
429	S	Unk	1	1		
<b>Contingency</b>					3	
<b>Total Catch Basin Count =</b>					<b>23</b>	

OG= Old Grates to be replaced. (City of Mansfield will furnish new grates to Contractor).



CATCH BASIN RECONSTRUCTED TO GRADE, AS PER PLAN

**ITEM 604, CATCH BASIN RECONSTRUCTED TO GRADE, AS PER PLAN**

THIS ITEM SHALL INCLUDE THE REMOVAL OF THE EXISTING CATCH BASIN WALLS DOWN TO THE FLOW LINE, AND THE REPLACEMENT OF SAID CATCH BASIN WALLS WITH 8" THICK CLASS C CONCRETE CAST IN PLACE. A CONSTRUCTION JOINT SHALL BE PLACED 12" BELOW TOP OF GRATE ELEVATION. THE GRATE ELEVATION SHALL BE A MINIMUM 1/2" BELOW THE NORMAL PAVEMENT SLOPE MEASURED AT THE MIDDLE OF THE TWO GRATES. IT MAY BE DETERMINED IN THE FIELD, THAT A SUMP DEPTH GREATER THAN 1/2" SHALL BE USED. THE FINAL SUMP DEPTH SHALL BE DETERMINED BY THE ENGINEER.

THE CONCRETE BEARING AREA SHALL BE A MINIMUM OF 2 1/2" IN WIDTH AND SHALL BE SMOBY THE CITY AT NO COST TO THE CONTRACTOR. FRAMES WILL NOT BE USED.

THE NEW APRON SHALL CONFORM AS NEARLY AS PRACTICABLE TO THE EXISTING DIMENSIONS.

ALL DRAINAGE CONDUITS OUT-LETTING INTO THE CATCH BASIN SHALL BE MAINTAINED WITH A CONDUIT OF THE SAME SIZE WITH A CONCRETE COLLAR POURED COMPLETELY AROUND THE JOINT. ANY VOIDS FOUND AROUND THE CATCH BASIN DURING PRE-RECONSTRUCTION SHALL BE FILLED WITH LOW-STRENGTH MORTAR BACKFILL AND SHALL BE INCLUDED IN THIS ITEM.

ALL CATCH BASINS SHALL BE A 2 GRATE NO. 6 CATCH BASIN CONFORMING TO ODOT STANDARD CONSTRUCTION DRAWING NO. CB-2.3.

THIS ITEM SHALL ALSO INCLUDE THE NECESSARY TOPSOIL, SEEDING AND MULCHING FOR THE ASSOCIATED DISTURBED AREAS. THE CONTRACTOR SHALL ENSURE A DENSITY OF AT LEAST 70% GRASS COVER. REPAIR SEEDING AND MULCHING MAY BE NECESSARY. NO SEPARATE PAYMENT WILL BE MADE FOR REPAIR SEEDING AND MULCHING.

PAYMENT FOR THE CURB AT THE CATCH BASIN SHALL BE INCLUDED IN THIS ITEM.

PAYMENT FOR ITEM 604, CATCH BASIN RECONSTRUCTED TO GRADE, AS PER PLAN SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO PERFORM THE ITEM OF WORK AS DESCRIBED IN THIS SECTIONS. BASIS OF PAYMENT WILL BE AT THE BID PRICE FOR EACH.

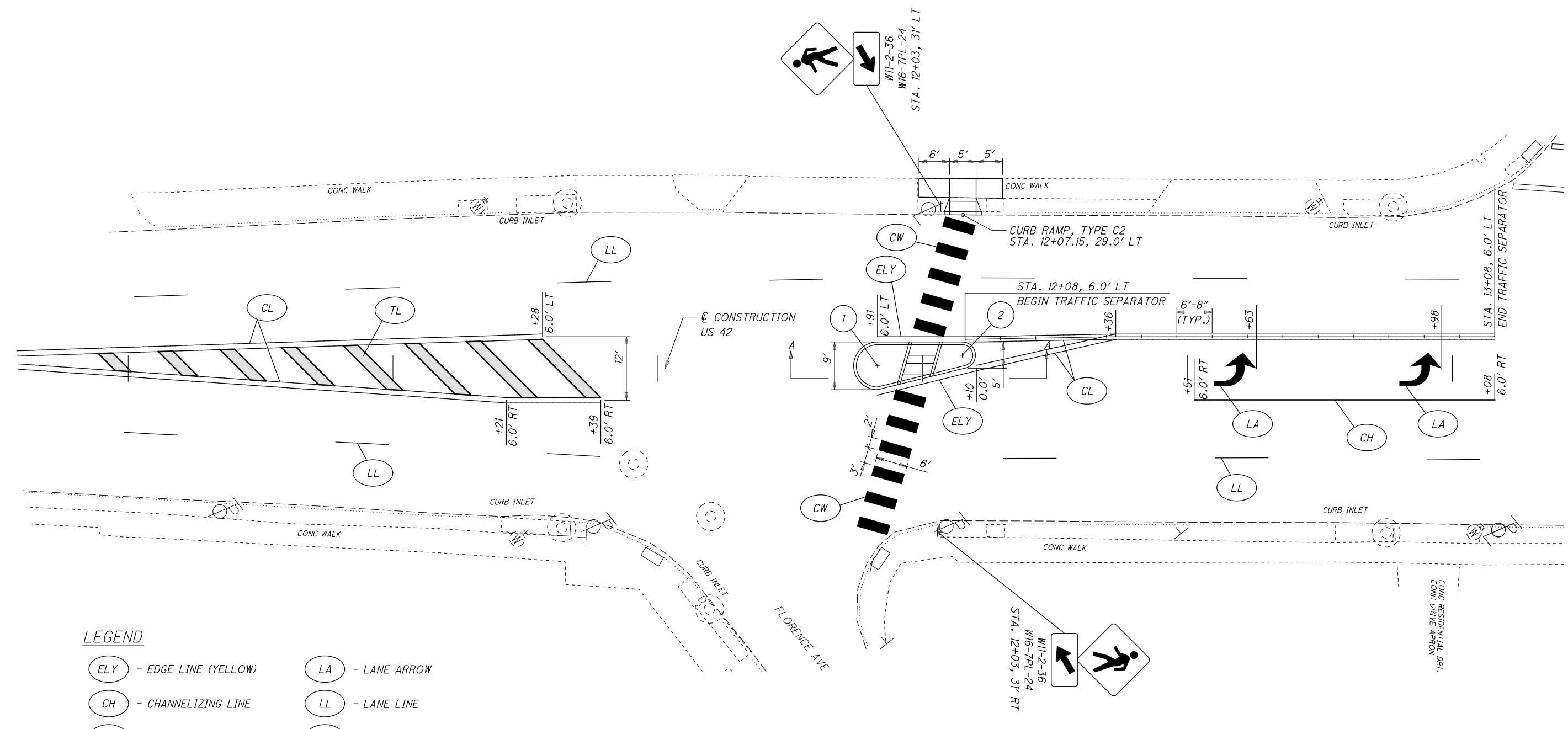
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ITEM 604, CATCH BASIN RECONSTRUCTED TO GRADE, AS PER PLAN - 23 EACHOTH AND EVEN FOR ALL PORTIONS OF THE GRATE TO PREVENT THE GRATE FROM ROCKING DURING LIVE LOAD IMPACT. ALL GRATES SHALL BE REUSED. IF THE EXISTING GRATE IS MISSING OR NOT SUITABLE FOR REUSE, A NEW GRATE WILL BE FURNISHED

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**LEGEND**

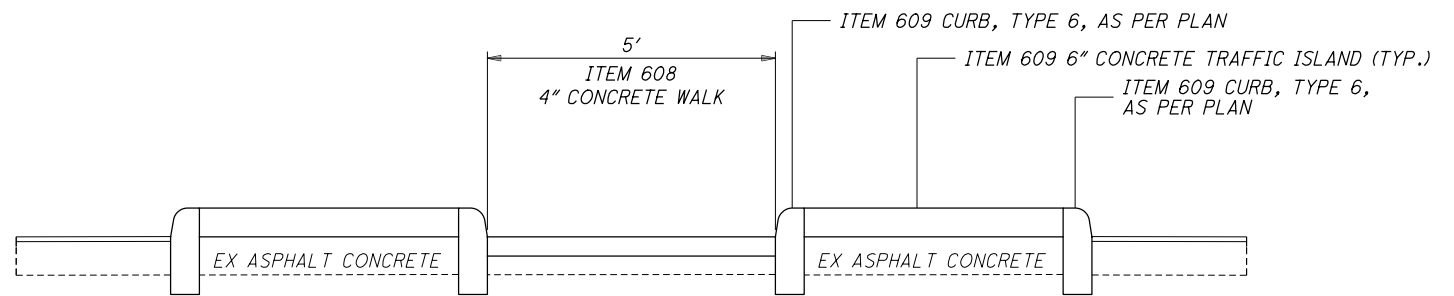
-  - EDGE LINE (YELLOW)
-  - CHANNELIZING LINE
-  - CENTER LINE
-  - CROSSWALK LINE
-  - LANE ARROW
-  - LANE LINE
-  - TRANSVERSE/DIAGONAL LINE

Quantity	Unit	Item	Description
32	SF	608	4" CONCRETE WALK
78	SF	608	CURB RAMP, AS PER PLAN
68	FT	609	CURB, TYPE 6, AS PER PLAN
11	SY	609	6" CONCRETE TRAFFIC ISLAND
100	FT	620	DELINATOR MISC.: TRAFFIC SEPERATOR
30	FT	630	GROUND MOUNTED SUPPORT, NO. 3 POST
22	SF	630	SIGN, FLAT SHEET
0.01	MI	642	EDGE LINE, 6", TYPE 1
57	FT	644	CHANNELIZING LINE, 8"
2	EACH	644	LANE ARROW
66	FT	644	CROSSWALK LINE
85	FT	644	TRANSVERSE/DIAGONAL LINE

QUANTITIES CARRIED TO THE GENERAL SUMMARY

- 1 STA. 11+82.06, 1.00' LT  
R=8.00' (TO BACK OF CURB)
- 2 STA. 12+14.06, 5.00' LT  
R=4.00' (TO BACK OF CURB)

**ITEM 620 - DELINEATOR MISC.: TRAFFIC SEPERATOR**  
 TRAFFIC SEPERATOR SHALL BE MANUFACTURED BY QWICK KURB, PEXCO F6300, OR APPROVED EQUAL. PAYMENT FOR ITEM 620 - DELINEATOR MISC.: TRAFFIC SEPERATOR SHALL BE MEASURED PER LINEAR FOOT.



PEDESTRIAN ISLAND SECTION A-A DETAIL

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