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ITEM 601 - PAVED GUTTER, TYPE 1-2, AS PER PLAN

THIS ITEM SHALL CONSIST OF CONSTRUCTING CONCRETE PAVED GUTTER AS PER STANDARD CONSTRUCTION DRAWING DM-2.1 AND THE DETAILS AS SHOWN ON SHEETS 53 - 54 AT THE LOCATIONS SHOWN IN THE PLANS. THE GUTTER SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN IN THE DETAIL. A SIDE CUTOFF WALL SHALL BE CONSTRUCTED AS SHOWN PER THE DETAIL FOR THE ENTIRE LENGTH OF THE GUTTER. END CUTOFF WALLS SHALL BE AS PER STANDARD DRAWING DM-2.1. PEJF (PREFORMED EXPANSION JOINT FILLER) SHALL BE PER CMS 516 AND IS INCLUDED IN THE COST OF THE PAVED GUTTER.

ALL LABOR, EOUIPMENT AND MATERIALS NECESSARY TO COMPLETE THE ABOVE-DESCRIBED WORK SHALL BE INCLUDED IN THE CONTRACT PRICE BID FOR ITEM 601 - PAVED GUTTER, TYPE 1-2, AS PER PLAN.

WATER QUALITY

POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

VEGETATED FILTER STRIP

THIS PLAN UTILIZES VEGETATED FILTER STRIP(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AND ITEM 670, SLOPE EROSION PROTECTION TO ALL DISTURBED AREAS DESIGNATED AS VEGETATED FILTER STRIPS, THE EDGE OF SHOULDER, AND THE FORESLOPE AS SPECIFIED IN THE PLANS.

VEGETATED BIOFILTER

THIS PLAN UTILIZES VEGETATED BIOFILTER(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AS SHOWN IN THE PLANS TO ANY DISTURBED AREA ON THE SHOULDER AND FORESLOPE DRAINING TO A VEGETATED BIOFILTER. THE DITCH FOR EACH VEGETATED BIOFILTER SHALL BE TRAPEZOIDAL, AS SHOWN IN THE PLAN CROSS SECTIONS. PROVIDE ITEM 670 AS SPECIFIED IN THE PLANS. ALL DITCHES LOCATED WITHIN LIMITS OF VEGETATED BIOFILTER SHALL BE TRAPEZOIDAL AND NOT HAVE ROUNDING.

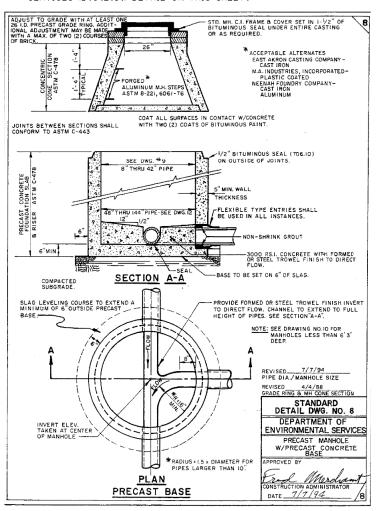
SANITARY SEWER

SUMMIT COUNTY D.O.E.S. SANITARY SEWER NOTES

ALL SEWER WORK ITEMS AND CONSTRUCTION SHALL CONFORM TO ODOT ITEM 611 AND THE SUMMIT COUNTY D.O.E.S. CONSTRUCTION AND MATERIAL SPECIFICATIONS AND APPLICABLE DETAILS. WHERE THERE IS CONTRADICTION, THE SUMMIT COUNTY D.O.E.S. SPECIFICATIONS WILL TAKE PRECEDENCE.

ITEM 611 - MANHOLE ADJUSTED TO GRADE, AS PER PLAN (SANITARY)

THIS ITEM SHALL INCLUDE ALL LABOR, TOOLS, EOUIPMENT, MATERIALS AND INCIDENTALS NECESSARY FOR ADJUSTMENT OF THE SANITARY MANHOLES IN ACCORDANCE WITH ODOT ITEM 611 AND THE SUMMIT COUNTY DEPARTMENT OF ENVIRONMENT SERVICES (D.O.E.S.) DETAIL ON THIS SHEET.



CITY OF AKRON SANITARY SEWER NOTES

ALL SEWER WORK ITEMS AND CONSTRUCTION SHALL CONFORM TO ODOT ITEM 611 AND THE CITY OF AKRON CONSTRUCTION AND MATERIAL SPECIFICATIONS AND APPLICABLE DETAILS. WHERE THERE IS CONTRADICTION, THE CITY OF AKRON SPECIFICATIONS WILL TAKE PRECEDENCE.

<u>ITEM 611 - MANHOLE NO. 3, AS PER PLAN</u> (SANITARY)

THIS ITEM SHALL CONSIST OF CONSTRUCTING A SANITARY SEWER MANHOLE IN ACCORDANCE WITH ODOT ITEM 611 AND ODOT STANDARD CONSTRUCTION DRAWING MH-1.2 EXCEPT THAT A SEALED AND WATER-TIGHT LID MUST BE PROVIDED DUE TO THE PROXIMITY OF THE ADJACENT STREAM. THIS ITEM SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY FOR CONSTRUCTION OF THE SANITARY MANHOLES.

ENVIRONMENTAL

WETLAND IMPACTS/AVOIDANCE

FOR WETLAND IMPACTS, PLEASE REFER TO THE NOTE SHOWN ON SHEFT 444

TEMPORARY WETLAND IMPACT

TEMPORARY ACCESS FILLS IN WETLAND A MUST BE REMOVED ENTIRELY AND WETLAND A MUST BE RETURNED TO PRE-CONSTRUCTION CONTOURS. ANY TOPSOIL REMOVED FROM THE WETLAND WILL BE STOCKPILED AND REPLACED POST-CONSTRUCTION. THE AREAS SURROUNDING THE STOCKPILES ARE TO BE PROTECTED FROM SEDIMENT WITH THE USE OF PERIMETER CONTROL DEVICES SUCH AS EARTH, STRAW BALES OR SILT FENCES. THESE PERIMETER CONTROL DEVICES SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT. RESTORE ALL STOCKPILE AND PLACEMENT AREAS UPON COMPLETION OF THE PROJECT. ANY BARE AREAS WITHIN THE TEMPORARY WETLAND IMPACT BOUNDARIES WILL NEED TO BE RESEEDED WITH A NATIVE, NON-INVASIVE SPECIES SEED MIX. A ERMX-128 SEASONALLY FLOODED WILDLIFE FOOD MIX OR COULVALENT AT A SEEDING RATE OF 20 LB PER ACRE OR 1/2 LB PER 1,000 SO FT.

BEST MANAGEMENT PRACTICES/SOIL EROSION AND SEDIMENTATION CONTROL

ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS SPECIFIED IN THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE IN PLACE PRIOR TO ANY EXCAVATION, GRADING OR FILLING OPERATIONS AND INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES. THEY SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE AND THE AREA IS STABILIZED AS ACCEPTED BY THE ENGINEER.

ENDANGERED BAT HABITAT REMOVAL

THIS PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT, AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL I THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER I THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT (ESA). FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS: A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

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- 1. A MINIMUM OF ONE ELEVEN FOOT LANE IN EACH DIRECTION SHALL BE MAINTAINED ON THE EXISTING, TEMPORARY OR COMPLETED PAVEMENT DURING CONSTRUCTION OF THE WORK.
- 2. THE CONTRACTOR SHALL INFORM THE DISTRICT OFFICE (330) 786-2208. EIGHTEEN (18) DAYS PRIOR TO THE BEGINNING OF WORK.
- 3. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BE PERMITTED TO HAVE SUCCESSIVE WORK ZONES UNLESS THE DISTANCE BETWEEN THE DRUMS, BARRICADES OR CONES EXCEEDS TWO (2) MILES RURAL OR ONE [1] MILE URBAN.
- 4. FOR ROUTES NOT ON THE PERMITTED LANE CLOSURE CHART, ONLY DURING OFF-PEAK PERIODS (ie ANY PERIOD OTHER THAN 6-8AM AND 3-6PM) SHALL THE CONTRACTOR INSTALL AND SUBSEQUENTLY RESET ALL TRAFFIC CONTROL NECESSARY FOR THE WORK ZONE FOR EACH CONSTRUCTION PHASE.
- 5. A QUANTITY OF 100 CU. YDS. OF ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC SHALL BE PROVIDED FOR USE IN MAINTAINING PAVEMENT, SHOULDERS AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER.
- 6. PRIOR TO OPENING TO TRAFFIC EACH LANE SHALL BE IN A SAFE, PASSABLE CONDITION. ALL TRANSVERSE JOINTS SHALL EXTEND ACROSS THE FULL LANE AND SHOULDER WIDTH AND EACH LANE SHALL BE FREE FROM UNEVEN LONGITUDINAL JOINTS. THE CONTRACTOR SHALL PROVIDE ASPHALT WEDGES FOR TRANSVERSE JOINTS WHEREVER THERE ARE PAVEMENT ELEVATION DIFFERENCES.
- 7. THE CONTRACTOR SHALL PLACE THE SIGNS: W8-1 [BUMP] PER OMUTCD 2C.28; W8-11 [UNEVEN LANES] PER OMUCTD 6F.45; AND W6-3 [TWO-WAY TRAFFIC] PER OMUTCD 6F.32. PAYMENT FOR THESE SIGNS SHALL BE INCIDENTAL TO THE LUMP SUM ITEM 614- MAINTAINING TRAFFIC. AN ESTIMATED QUANTITY OF FIFTEEN (15) ITEM 614 WORK ZONE MARKING SIGNS HAS BEEN INCLUDED IN THE PLANS PER CMS 614.04.
- 8. THE CONTRACTOR SHALL SET A WORK ZONE AT THE REQUEST OF THE ENGINEER TO ALLOW THE LAYOUT OF THE PARTIAL/FULL DEPTH PAVEMENT REPAIR AREAS. THIS WORK IS INCIDENTAL TO ITEM 614 MAINTAINING TRAFFIC.

ADVANCED NOTICE TO PAVE

THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE DISTRICT CONSTRUCTION ENGINEER A DETAILED SCHEDULE 15 DAYS PRIOR TO THE PLACEMENT OF THE OVERLAY COURSES. ON HOW THEY PROPOSE TO PROSECUTE THE PAVING OPERATIONS. THE DETAILS SHALL SHOW THE ORDER OF PERFORMANCE OF EACH STAGE (START TO FINISH) OF THE WORK INCLUDING THE MAINTENANCE OF TRAFFIC THAT WILL BE

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WINTER TIME LIMITATIONS

ALL RAMPS SHALL BE OPEN AND TRAFFIC SHALL BE MAINTAINED AS DESCRIBED IN THE SEQUENCE OF CONSTRUCTION AND AS DETAILED IN THE PLANS BETWEEN COCTOBER 15 AND APRIL 1. SHOULD THE CONTRACTOR FAIL TO MEET THESE REQUIREMENTS, A DISINCENTIVE SHALL BE CASSESSED IN THE AMOUNT OF \$325 PER MINUTE PER LANE.

TIME LIMITATION ON A DETOUR

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT AS FOLLOWS:

	ROAD OR RAMP	DURATION OF CLOSURE	DISCINCENTIVE
	CLOSURE	(CALENDAR DAYS)	(# PER CALENDAR DAY)
<u> </u>	WARNER RD.	TWICE - 30 DAYS EACH*	\$2,250
	RAMP B	45 DAYS	\$16,250
	RAMP B-1	45 DAYS	\$ 3,250
	RAMP B-2	45 DAYS	<i>\$16,500</i>
	RAMP C-1	45 DAYS	\$ 7,000
	RAMP C-2	270 DAYS	\$ 5,250
	RAMP D	45 DAYS	\$8, 250
	PHASE 2	270 DAYS**	\$16,500
<u> </u>	PHASE 1B	30 DAYS	\$ 7,000
	RAMP C	45 DAYS	84,000
	11/1/11/11	10 DA 13	4,,000



- TWO SEPARATE 30 DAY CLOSURES ARE PERMITTED FOR WARNER ROAD. ONE CLOSURE SHALL BE FOR THE BRIDGE WORK. THE SECOND CLOSURE SHALL BE TO LOWER THE ROAD. THE WARNER RD DETOUR SHALL NOT TAKE PLACE IN AUGUST OF ANY YEAR. THE CONTRACTOR SHALL COORDINATE THE WARNER RD CLOSURE WITH THE FIRESTONE COUNTRY CLUB. WARNER RD SHALL NOT BE CLOSED DURING ANY MAJOR GOLF **EVENTS. EXPECTED DATES:**

2021 - 6/18 THRU 6/28 2022 - 7/1 THRU 7/20 2023+ - TO BE DETERMINED BRIDGESTONE GOLF CONTACT: DON PADGETT III EXECUTIVE DIRECTOR BRIDGESTONE SENIOR PLAYERS ADDRESS: 440. E WARNER ROAD AKRON. OH 44319 PHONE: 330 245 2305 EMAIL: DPADGETT@PGATOURHQ.COM

** - THIS DETOUR SHALL BE IN EFFECT FOR PHASE 2 WHEN RAMP B-2 IS INACESSIBLE TO NON-CONTRAFLOW NB 77 TRAFFIC.

THE CONTRACTOR SHALL ADVISE THE ODOT DISTRICT OFFICE (330-786-3148) EIGHTEEN (18) DAYS IN ADVANCE OF WHEN THE DETOUR ROUTE SHOULD BE IN EFFECT. ALL WORK ZONE DEVICES REQUIRED SHALL BE FURNISHED, ERECTED,

MAINTAINED, AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR. PAYMENT FOR ALL WORK ASSOCIATED WITH THE DETOUR SHALL BE INCLUDED UNDER THE LUMP SUM BID FOR ITEM 614, DETOUR SIGNING.

LANE CLOSURES

DETOUR NOTIFICATION

DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AS PER THE PERMITTED LANE CLOSURE CHART. THE PERMITTED LANE CLOSURE CHART USED FOR THIS PROJECT SHALL BE THE MOST CURRENT CHART AVAILABLE ON THE DATE THIS PROJECT SELLS.

THE CHART CAN BE FOUND AT: http://plcm.dot.state.oh.us

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THE REQUIREMENTS IN THE CHART, THE CONTRACTOR SHALL BE ASSESSED DISINCENTIVES IN THE AMOUNT OF \$10,000 PER HOUR OR PORTION THEREOF THAT THE LANE REDUCTION REMAINS BEYOND THE SPECIFIED LIMIT.

NOTICE OF CLOSURE SIGN

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTIO	CE OF CLOSURE S	SIGN TIME TABLE
ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
5445	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
RAMP & ROAD CLOSURES	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

SEE TABLE ON SHEET 74A FOR REVISED SEQUENCE OF CONSTRUCTION.

PRE-PHASE 1 (NO SHEETS PROVIDED)

1. UTILIZE ALLOWABLE LANE CLOSURES IN ACCORDANCE WITH THE PERMITTED LANE CLOSURE CHART TO INSTALL THE FOLLOWING STORM CROSSINGS:

PIPE REFERENCE	SIZE	ALIGNMENT	STATION	SIDE
P-11	15"	CL I-77	425+00.00	LT
P-63	15"	CL I-77	427+40.00	LT
P-12	15"	CL I-77	428+50.00	LT
P-14	15"	CL I-77	432+50.00	LT
P-18	15"	CL I-77	444+10.00	LT
P-22	24"	CL I-77	458+10.00	RT
P-28	42"	BL I-77 SB	492+00.00	RT/LT
P-42	15"	BL I-77 SB	494+00.00	RT/LT

- 2. INSTALL ALL PROPOSED OVERHEAD SIGN STRUCTURES, FOUNDATIONS AND TEMPORARY GUIDE SIGNS, PROVIDE POSITIVE PROTECTION WHEN WORKING WITHIN THE CLEAR
- 3. INSTALL TEMPORARY PAVEMENT ON I-77 NORTHBOUND BETWEEN STATIONS 504+32 AND 508+49 AND ON I-77 SOUTHBOUND BETWEEN STATIONS 505+70 AND 513+15 FOR USE IN PHASE 1.

PHASE 1 (SHEETS 128 TO 156)

- 1. SHIFT NB AND SB I-77 LANES ONTO THE OUTSIDE SHOULDERS.
- 2. CONSTRUCT THE NB I-77 CROSSOVER PAVEMENT, AND RECONSTRUCT THE MEDIAN AND INSIDE LANES OF I-77 NB AND SB INCLUDING INSIDE CONSTRUCTION OF STRUCTURES SUM-77-0802L (SB I-77 OVER WARNER RD.), SUM-77-0802R (NB I-77 OVER WARNER RD.), SUM-77-0810L (SB I-77 OVER TUSCARAWAS RIVER), AND SUM-77-810R (NB I-77 OVER TUSCARAWAS RIVER).
- 3. CLOSE THE OUTSIDE LANE OF RAMP A.
- 4. BEGIN CONSTRUCTION OF RAMP B-2 WHILE MAINTAINING ACCESS TO EXISTING RAMP B-2.
- 5. SHIFT RAMP C TRAFFIC ONTO THE OUTSIDE SHOULDER. CONSTRUCT THE INSIDE HALF OF THE RAMP, INCLUDING TEMPORARY PAVEMENT FOR MAINTAINING TRAFFIC IN THE NEXT PHASE.
- 6. CLOSE AND DETOUR RAMP C-2 TRAFFIC. CONSTRUCT RAMP C-2 INCLUDING STRUCTURE SUM-77-0927R (RAMP C-2 OVER I-77 NB). WHEN REMOVING OR SETTING BEAMS THE CONTRACTOR MAY CLOSE I-77 AND DETOUR TRAFFIC UTILIZING RAMP C, US 224, KELLY AVE. AND RAMP D NIGHTLY BETWEEN 12:00 AM AND 4:00 AM. THE DETOUR WILL UTILIZE 3 PCMS. PAYMENT SHALL BE INCLUDED IN ITEM 614 -MAINTAINING TRAFFIC. NIGHTLY SINGLE LANE CLOSURES SHALL BE PERMISSIBLE ON I-77 NB, CONTRACTOR SHALL FOLLOW ODOT PLCM REGARDING CLOSURE TIMES AND DURATIONS.
- 7. MAINTAIN TRAFFIC ON ALL OTHER RAMPS.
- 8. CLOSE AND DETOUR WARNER RD. TRAFFIC. CONSTRUCT WARNER RD. UNDER I-77.

			REVISIONS
I	NO.	DATE	DESCRIPTION
	\triangle	04/05/21	REVISED NOTE TO ALLOW DETOUR
	<u>A</u>	04/20/21	REVISED SEQUENCE OF CONSTRUCTION

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TO AVOID CONFLICTING WORK ZONES WITH THE ADJACENT PROJECT (PID 102329), THE SEQUENCE OF CONSTRUCTION WILL BE REVISED PER THE TABLE BELOW. A 24 FOOT LATERAL TRAFFIC SHIFT WILL BE REQUIRED TO PERFORM PHASES 2B AND 2D WHILE NORTHBOUND TRAFFIC IS IN THE PHASE 3 PATTERN. THE SHIFT WILL BE PER MT-102.10. THE ESTIMATED QUANTITIES BELOW ARE FOR THE TRAFFIC SHIFT:

ITEM 614 WORK ZONE EDGE LINE, CLASS I, 6" AS PER PLAN 1.5 MILE ITEM 614 WORK ZONE LANE LINE, CLASS I, 6"AS PER PLAN O.7 MILE ITEM 614 WORK ZONE CHANNELZING LINE, CLASS I, 12" AS PER PLAN 4224 FT ITEM 614 PORTABLE BARRIER, UNANCHORED 1800 FT ITEM 614 OBJECT MARKER, ONE WAY *36 EACH* ITEM 614 BARRIER REFLECTOR, TYPE 1, 1 WAY *36 EACH*

SEQUENCE OF CONSTRUCTION

PRECEDING PHASE	PHASE	DESCRIPTION	SUCCEDING PHASE	ANTICIPATED CONSTRUCTION YEAR
BEGIN WORK	PRE-PHASE 1	STORM DRAINAGE CROSSINGS, TEMPORARY PAVEMENT, GUIDE SIGNS, OVERHEAD SIGN STRUCTURES, PROCUREMENT (I.E. STUCTURAL STEEL, NOISE BARRIER, ETC.)	1	2021
PRE-PHASE 1	1	CONSTRUCT CROSSOVER PAVEMENT, RECONSTRUCT THE MEDIAN AND INSIDE LANES OF I-77 NB & SB INCLUDING STRUCTURES.	PRE-PHASE 2	2021-2022
1	PRE-PHASE 2	INSTALL DMS SIGN ON I-77 AND REPLACE SIGN TRUSS ON I-277.	3	2022
PRE-PHASE 2	3*	CONSTRUCT OUTSIDE PORTION OF I-77 SB FOR THE ENTIRE LENGTH OF THE PROJECT. CONSTRUCT PHASE 3 CROSSOVERS.	<i>1A</i>	2022-2023
3	14	RAMP B-2	1B	2023
14	1B	LEFT SIDE OF I-77 NB BETWEEN STA. 469+50 AND 783+00.	1C	2023
1B	1C	INSIDE HALF OF THE I-77 NB PAVEMENT THROUGH THE I-277 INTERCHANGE.	2	2023
1B	2E	INSIDE PORTION OF MAINLINE I-77 NB FROM STA. 513+50 TO THE WATERLOO ROAD BRIDGE.	2	2023
1C/2E	2*	I-77 NB OUTSIDE PAVEMENT RECONSTRUCTION SOUTH OF THE I-277 INTERCHANGE.	4	2023-2024
2	4	SURFACE COURSE AND FINAL PAYMEENT MARKINGS.	COMPLETION	2024

^{*} SHALL INCLUDE SUB-PHASES EXCEPT AS NOTED IN THE TABLE BELOW

PHASE	DESCRIPTION	CONSTRAINTS	ANTICIPATED CONSTRUCTION YEAR
2B	RAMP C-1, THE OUTSIDE PORTION OF I-77 NB IN THE AREA OF THE ACCELERATION LANE, OUTSIDE PORTIION OF I-277 EB IN THE AREA OF THE DECELERATION AREA	CONSTRUCTED WHILE THE RAMP IS CLOSED FOR PID 102329	2022
2C		DUE TO PID 102329, PHASE MAY NOT BE NEEDED	2022
2D		CONSTRUCTED WHILE THE RAMP IS CLOSED FOR PID 102329	2022
2F		DUE TO PID 102329, PHASE MAY NOT BE NEEDED	2022
3	IRAMP B	CONSTRUCTED WHILE THE RAMP IS CLOSED FOR PID 102329	2023

		REVISIONS
NO.	DATE	DESCRIPTION
4	04/20/21	REVISED SEQUENCE OF CONSTRUCTION

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PHASE 1A (SHEETS 171 TO 174)

(J. MAINTÁIN THỂ NB MỘT FROM PHÁSE I EXCEPT ÁS INDICATED BELOW.

- 2. CONSTRUCT THE TEMPORARY SIGNAL AT THE KELLY AVE. AND US-224 WB RAMPS INTERSECTION FOR USE WHILE RAMP B-2 IS CLOSED AND TRAFFIC IS DETOURED.
- 3. CLOSE RAMP B-2 AND DETOUR TRAFFIC. CONSTRUCT RAMP B-2 FROM I-77 NB TO THE RAMP B GORE.

PHASE 1B (SHEETS 175 TO 180)

1. OPEN THE NEW RAMP B-2. CONTINUE CONSTRUCTION OF INSIDE NB-77 PAVEMENT.

PHASE IC (SHEETS 181 TO 185)

1. SHIFT THE TEMPORARY EXIT TO RAMP B-2 TO THE SOUTH. CONSTRUCT THE REMAINDER OF THE RAMP B-2 GORE.

WINTER SHUTDOWN SEASON 1 (SHEETS 186 TO 190)

4. OPEN RAMP C 2.

2. AT THE END OF THE FIRST CONSTRUCTION SEASON, REOPEN WARNER RD. WITH THE FINAL PERMANENT PAVEMENT MARKINGS PLACED PER THE TRAFFIC CONTROL PLAN. MAINTAIN THE I-77 NB AND SB TRAFFIC IN THEIR PHASE 1 MOT LANE ARRANGEMENT.

PRE-PHASE 2 (NO SHEETS PROVIDED)

1. THE CONTRACTOR SHALL PRIORITIZE INSTALLING THE DMS TRUSS SIGN AT STATION 424+07 EARLY IN THE PHASE 2 CONSTRUCTION. THE INTENT IS TO UTILIZE THE DMS TRUSS TO ASSIST IN INFORMING THE TRAVELING PUBLIC OF CHANGES DUE TO MOT PATTERNS. THE CONTRACTOR SHALL UTILIZE A PCMS ASSEMBLY AT STATION 424+07 DURING PHASE 1 AND OVER WINTER BETWEEN PHASES 1 AND 2. THE PCMS ASSEMBLY SHALL BE EQUIPPED WITH A MODEM THAT SHALL BE PROVIDED BY CENTRAL OFFICE. ONCE THE DMS TRUSS HAS BEEN CONSTRUCTED AND THE ITS EQUIPMENT HAS BEEN RELOCATED AND IS COMPLETELY FUNCTIONAL, THE CONTRACTOR MAY REMOVE THE PCMS ASSEMBLY. ALL EQUIPMENT, LABOR. AND MATERIALS REQUIRED TO FURNISH, INSTALL, AND SUBSEQUENTLY REMOVE THE PCMS ASSEMBLY AND MODEM SHALL BE INCIDENTAL TO ITEM 614 - MAINTAINING TRAFFIC.

PRE-PHASE 2 (SHEETS 200 TO 202)

1. CLOSE THE INSIDE LANE OF EB I-277/US-224. SHIFT THE SINGLE WB US-224 THRU LANE ONTO THE OUTSIDE EXISTING PAVEMENT. REMOVE AND REPLACE THE EXISTING MEDIAN BARRIER, MEDIAN PAVEMENT, AND OVER HEAD SIGN TRUSS.

PHASE 2 (SHEETS 203 TO 230)

- 1. MAINTAIN I-77 SB TRAFFIC IN THE PHASE 1 MOT LANE ARRANGEMENT. SHIFT THE INSIDE LANE OF I-77 NB INTO A CONTRAFLOW LANE ON THE SB SIDE OF I-77 USING THE NB CROSSOVERS CONSTRUCTED IN THE PREVIOUS PHASE. SHIFT THE RIGHT TWO LANES OF I-77 NB TO THE INSIDE SHOULDER AND LANES COMPLETED IN PHASE 1, CONSTRUCT THE I-77 NB OUTSIDE SHOULDER AND LANES FROM THE SOUTHERN PROJECT LIMITS TO THE RAMP C-1 GORE.
- 2. CLOSE AND DETOUR RAMP B TRAFFIC. CONSTRUCT RAMP B.

PHASE 2 CONT'D

- 3. SHIFT RAMP C TRAFFIC ONTO THE INSIDE SHOULDER AND TEMPORARY PAVEMENT CONSTRUCTED IN THE PREVIOUS PHASE. CONSTRUCT THE OUTSIDE HALF OF THE RAMP.
- 4. MAINTAIN TRAFFIC ON ALL OTHER RAMPS.

PHASE 2A (SHEETS 231 TO 237)

- 1. MAINTAIN PHASE 2 MOT TRAFFIC PATTERNS EXCEPT AS INDICATED BELOW.
- 2. REOPEN RAMP B.
- 3. SHIFT RAMP B-2 TRAFFIC ONTO THE INSIDE SHOULDER. CONSTRUCT THE OUTSIDE HALF OF RAMP B-2 FROM THE RAMP B GORE TO US-224/I-227 WB.
- 4. SHIFT US-224/I-227 WB TRAFFIC ONTO THE INSIDE SHOULDER.
- 5. CONSTRUCT THE OUTSIDE SHOULDER AND LANES OF US-224/I-227 WB FROM THE RAMP B-1 GORE TO THE WESTERN LIMITS OF CONSTRUCTION.

PHASE 2B (SHEETS 238 TO 242)

- 1. MAINTAIN PHASE 2A MOT TRAFFIC PATTERNS EXCEPT AS INDICATED BELOW.
- 2. SHIFT RAMP B-2 BACK TO ITS NORMAL ALIGNMENT.
- 3. SHIFT US-224/I-227 WB BACK TO ITS NORMAL ALIGNMENT.
- 4. CLOSE AND DETOUR RAMP C-1 TRAFFIC. CONSTRUCT RAMP C-1 AND THE I-77 NB OUTSIDE SHOULDER AND LANES FROM RAMP C-1 TO THE RAMP D GORE.

PHASE 2C (SHEETS 243 TO 246)

- 1. MAINTAIN PHASE 2B MOT TRAFFIC PATTERNS EXCEPT AS INDICATED BELOW.
- 2. REOPEN RAMP C-1.

PHASE 2D (SHEETS 247 TO 251)

- 1. MAINTAIN PHASE 2C MOT TRAFFIC PATTERNS EXCEPT AS INDICATED BELOW.
- 2. MODIFY THE SIGNAL TIMINGS OF THE EXISTING SIGNAL AT THE INTERSECTION OF S. MAIN ST. AND US-224 WB RAMPS WHEN RAMP D IS CLOSED AND TRAFFIC IS DETOURED.
- 3. CLOSE AND DETOUR RAMP D TRAFFIC. CONSTRUCT RAMP D AND OUTSIDE HALF OF THE APPROACH SLAB OF I-77 NB OVER E. WATERLOO RD.

PHASE 2E (SHEETS 252 TO 254)

- 1. MAINTAIN PHASE 2D MOT TRAFFIC PATTERNS EXCEPT AS INDICATED BELOW.
- 2. SHIFT I-77 NB TRAFFIC TO THE OUTSIDE SHOULDER AND LANES BETWEEN THE RAMP D GORE AND I-77 NB OVER E. WATERLOO RD. AND CONSTRUCT THE INSIDE HALF OF THE APPROACH SLAB OF I-77 NB OVER E. WATERLOO RD.

PHASE 2F (SHEETS 255 TO 260)

- 1. MAINTAIN PHASE 2E MOT TRAFFIC PATTERNS EXCEPT AS INDICATED BELOW.
- 2. RESTORE I-77 NB TRAFFIC TO THE PHASE 2 LANE ARRANGEMENT NORTH OF THE RAMP D GORE AND REOPEN RAMP D.

PHASE 2G (SHEETS 261 TO 266)

- 1. MAINTAIN PHASE 2F MOT TRAFFIC PATTERNS EXCEPT AS INDICATED BELOW.
- 2. CLOSE THE RIGHT LANE OF US-224 EB APPROACHING THE RAMP C GORE AND SHIFT RAMP C INTO THE CLOSED LANE. CONSTRUCT THE OUTSIDE SHOULDER AND LANES OF US-224 EB FROM RAMP C TO S. ARLINGTON ST.

PHASE 2H (SHEETS 267 TO 276)

- 1. MAINTAIN PHASE 2G MOT TRAFFIC PATTERNS EXCEPT AS INDICATED BELOW.
- 2. PLACE THE RIGHT LANE OF US-224 EB AND RAMP C-2 TO THEIR FINAL LANE ARRANGEMENT. REMOVE THE RAMP C TEMPORARY PAVEMENT.
- 3. SHIFT RAMP C TRAFFIC AT THE I-77 NB/RAMP C GORE ONTO THE OUTSIDE PAVEMENT. CONSTRUCT THE REMAINDER OF THE I-77 NB/RAMP C GORE.

PHASE 2I (SHEETS 277 TO 279)

- 1. THIS PHASE MAY OCCUR AT ANY POINT AFTER PHASE 2 WHEN THE S. ARLINGTON RD. TO I-77 NB RAMPS TEMPORARY PAVEMENT IS COMPLETE.
- 2. MAINTAIN PHASE 2 MOT TRAFFIC PATTERNS EXCEPT AS INDICATED BELOW.
- 3. USING TEMPORARY PAVEMENT. SHIFT THE S. ARLINGTON RD. TO I-77 NB RAMPS ONTO I-77 NB. CONSTRUCT THE S. ARLINGTON RD. TO I-77 NB RAMP, GORE, AND PORTIONS OF I-77 NB OUTSIDE LANES.

PHASE 2J (SHEETS 280 TO 284)

- 1. MAINTAIN PHASE 2I MOT TRAFFIC PATTERNS EXCEPT AS INDICATED BELOW.
- 2. SHIFT THE S. ARLINGTON RD. TO I-77 NB RAMP TRAFFIC ONTO THE COMPLETED PAVEMENT AND REMOVE THE TEMPORARY PAVEMENT.

WINTER SHUTDOWN SEASON 2 (NOT SHEETS PROVIDED)

- 1. AT THE END OF THE SECOND CONSTRUCTION SEASON, MAINTAIN THE 1-77 SB LANES IN THE PHASE 2 LANE ARRANGEMENT. PLACE THE NB LANES IN THE PHASE 3 LANE ARRANGEMENT. REOPEN ALL RAMPS.
- 2. REMOVE THE NB CROSSOVERS AND RECONSTRUCT THE NB INSIDE SHOULDER FROM APPROXIMATELY STA. 371+50 TO CSTA. 372+57

(3. PRIOR TO PHASE 3, CONSTRUCT THE SB CROSSOVERS

PHASE 3 (SHEETS 318 TO 346)

- 1. SHIFT I-77 NB TRAFFIC ONTO THE OUTSIDE NEWLY CONSTRUCTED PAVEMENT COMPLETED IN THE PREVIOUS PHASE, SHIFT THE INSIDE THIRD LANE OF I-77 SB INTO A CONTRAFLOW LANE ON THE NB SIDE OF I-77 USING THE SB CROSSOVERS CONSTRUCTED PRIOR TO THIS PHASE. SHIFT THE RIGHT TWO LANES OF I-77 SB TO THE INSIDE NEWLY CONSTRUCTED PAVEMENT COMPLETED IN PHASE 2. CONSTRUCT THE I-77 SB OUTSIDE SHOULDER AND LANES. RECONSTRUCT THE I-77 NB SHOULDER FROM APPROXIMATELY STA. 368+00 TO STA. 370+00.
- 2. CLOSE AND DETOUR RAMP B-1 TRAFFIC. CONSTRUCT RAMP
- 3. CLOSE THE OUTSIDE THIRD LANE OF US-224/I-277 EB. UTILIZE A DROP LANE AT THE US-224/I-277 EB AND RAMP A GORE. SHIFT RAMP A TRAFFIC TO THE INSIDE OF RAMP A. CONSTRUCT THE OUTSIDE HALF OF RAMP A AND INSTALL TEMPORARY PAVEMENT TO BE UTILIZED WITH PHASE 3B.

PHASE 3A (SHEETS 352 TO 358)

- 1. MAINTAIN PHASE 3 MOT TRAFFIC PATTERNS EXCEPT AS INDICATED BELOW.
- 2. REOPEN RAMP B-1.

PHASE 3B (SHEETS 359 TO 364)

- 1. MAINTAIN PHASE 3A MOT TRAFFIC PATTERNS EXCEPT AS INDICATED BELOW.
- 2. SHIFT RAMP A TRAFFIC ONTO THE OUTSIDE NEWLY CONSTRUCTED PAVEMENT AND TEMPORARY PAVEMENT COMPLETED IN PHASE 3. CONSTRUCT THE INSIDE OF RAMP A, THE RAMP A/US-224 EB/I-77 EB GORE, AND THE RAMP A/I-77 SB GORF.

POST PHASE 3B (NO SHEETS PROVIDED)

AT ANY POINT AFTER PHASE 3B HAS BEEN COMPLETED UTILIZE A SHOULDER CLOSURE PER ODOT STANDARD CONSTRUCTION DRAWING MT-95.45 TO CLOSE THE OUTSIDE SHOULDER OF RAMP A FROM APPROXIMATE STATION 107+50 TO STATION 112+00. REMOVE THE TEMPORARY PAVEMENT USED IN A PREVIOUS PHASE, PREFORM FINAL GRADING, AND INSTALL THE REMAINDER OF THE MISSING GUARDRAIL.

PHASE 4 (SHEETS 393 TO 401)

- 1. CONSTRUCT FINAL PAVEMENT WEARING COURSE AND INSTALL ALL FINAL PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES UTILIZING ALLOWABLE LANE CLOSURES IN ACCORDANCE WITH THE PERMITTED LANE CLOSURE CHART.
- 2. PLACE ALL LANES AND RAMPS INTO THEIR FINAL LANE CONFIGURATION.
- 3. CLOSE THE I-77 SB INSIDE LANE FROM STA. 368+00 TO STA. 373+00 IN ORDER TO REMOVE THE SOUTHERN SB CROSSOVER, RECONSTRUCT THE I-77 SB INSIDE SHOULDER, AND CONSTRUCT THE MEDIAN BARRIER. UPON COMPLETION. REOPEN ALL I-77 SB LANES.
- 4. REMOVE THE NORTHERN I-77 SB CROSSOVER UTILIZING SHOULDER CLOSURES IN ACCORDANCE WITH MT-95.45 AND PLACE FINAL GUARD RAIL.

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MESSAGE BOARDS.

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.

NOTIF	FICATION TIME T	ABLE
ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS AND PIO
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
32337723	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	4 CALENDAR DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
nes mis mismo	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

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

ITEM 614 - WORK ZONE LANE LINE, CLASS I, 6", AS PER PLAN ITEM 614 - WORK ZONE EDGE LINE, CLASS I, 6", AS PER PLAN ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 12", AS PER PLAN

ITEM 614 - WORK ZONE DOTTED LINE. CLASS I. AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF 614.11:

1. ALL CLASS 1 EDGE LINES, LANE LINES, AND DOTTED LINES SHALL BE 6 INCHES WIDE AND CHANNELIZING MARKINGS SHALL BE 12 INCHES WIDE.

2. ALL CLASS 1 PAVEMENT MARKINGS SHALL BE SPRAY THERMOPLASTIC PER ODOT SPECIFICATION 648.

3. ALL CLASS I PAVEMENT MARKINGS SHALL CONTAIN WET REFLECTIVE BEADS AT AN APPLICATION RATE PER ODOT SPECIFICATION TABLE 614.11-1.

4. ALL CLASS I PAVEMENT MARKINGS SHALL NOT BE RECESSED.

PAYMENT FOR ALL MATERIAL, LABOR, EQUIPMENT, AND INCIDENTALS NECESSARY TO ACCOMPLISH THE ABOVE REQUIREMENTS SHALL BE INCLUDED WITH ITEM 614 - WORK ZONE PAVEMENT MARKING, CLASS 1, AS PER PLAN.

COOPERATION BETWEEN CONTRACTORS

THE CONTRACTOR SHALL BE ADVISED THAT PROJECT SUM-76/77/8-08.42/09.77/00.00 (PID 102329) MAY/BE CONGOING IN AN AREA IMMEDIATELY ADJACENT TO AND WITHIN THE PROJECT LIMITS OF THIS PROJECT AND SHALL HAVE PRIORITY TO THIS PROJECT. THE CONTRACTOR SHALL SCHEDULE HIS WORK SQ AS TO CAUSE & MINIMUM OF DELAY OR CONFLICT WITH THE OTHER PROJECTS (IT MAY BE NECESSARY TO REVERSE PHASES & AND 3 IN ORDER TO BETTER ALIGN WITH PID 102320 IN ACCORDANCE WITH 105.08, THE CONTRACTOR SHALL ARRANGE WITH THE OTHER CONTRACTORS APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL RECEIVE DAILY APPROVALS FROM THE ENGINEER PRIOR TO COMMENCING ANY OPERATIONS. ANY CONFLICT BETWEEN CONTRACTORS INVOLVING WORK SCHEDULES/WORK AREA, OR COOPERATION SHALL BE RESOLVED BY THE ENGINEER. COMPENSATION FOR THE ABOVE COOPÉRATION SHALL BE INCIDENTAL TO THE VARIOUS PAY SITEMS INCLUDED WITHIN THIS PROJECT.

ITS MESSAGE BOARDS

THE EXISTING ITS MESSAGE BOARDS IN THE VICINITY
OF THE PROJECT WILL BE UTILIZED TO PROVIDE
SUPPLEMENTAL INFORMATION TO THE TRAVELING PUBLIC.
THE CONTRACTOR WILL NOTIFY THE PROJECT ENGINEER
ONE [1] WEEK IN ADVANCE OF ANY PHASE CHANGE ON
I-77. THE PROJECT ENGINEER WILL COORDINATE WITH
THE DISTRICT PUBLIC INFORMATION OFFICE TO GET THE ITS
MESSAGE BOARDS ADJUSTED.

ITEM 614, MAINTAINING TRAFFIC, MISC.: RUMBLE STRIPS

THE RUMBLE STRIPS WILL BE PLACED AS SHOWN IN THE PLAN OR AS DIRECTED BY THE ENGINEER. RUMBLE STRIPS WILL BE INSTALLED EITHER ON TOP OF THE PAVEMENT USING HEAT-FUSED PREFORMED PLASTIC MATERIAL OR MILLED INTO THE PAVEMENT.

HEAT-FUSED PREFORMED PLASTIC RUMBLE STRIPS WILL BE FOUR [4] INCHES WIDE AND ONE HALF [0.5] INCH THICK IN PLACE. MILLED RUMBLE STRIPS WILL BE FOUR [4] INCHES WIDE AND ONE HALF [0.5] INCH INTO THE PAVEMENT. THE RUMBLE STRIPS WILL TRAVERSE THE TOTAL LANE WIDTH. THERE WILL BE TWO SECTIONS OF RUMBLE STRIPS. THE RUMBLE STRIPS MAY HAVE TO GO ACROSS TWO OR THREE LANES OF TRAFFIC.

THE FIRST RUMBLE STRIP SECTION SHOULD BE PLACED BEFORE THE ADVANCE WARNING DEVICES, THERE WILL BE TEN LIOJ TRANSVERSE STRIPS SIX [6] FEET APART. THE SECOND SECTION SHOULD BE PLACED A MINIMUM OF 250 FEET IN ADVANCE OF THE TRAFFIC CONDITION, THERE WILL BE TEN LIOJ TRANSVERSE STRIPS FIVE [5] FEET APART.

MATERIAL USED FOR THE RUMBLE STRIPS WILL BE 740.08
HEAT-FUSED PREFORMED PLASTIC MATERIAL, 125 MILS
MINIMUM THICKNESS, ON THE ODOT APPROVED LIST. THE
MANUFACTURERS RECOMMENDATIONS MUST BE FOLLOWED FOR
INSTALLATION.

MILLED RUMBLE STRIPS, ALTHOUGH SELF-CLEANING TO A LIMITED EXTENT, SHOULD BE INSPECTED PERIODICALLY TO DETERMINE IF DEBRIS NEEDS TO BE REMOVED OR IF THEY NEED TO BE RE-MILLED.

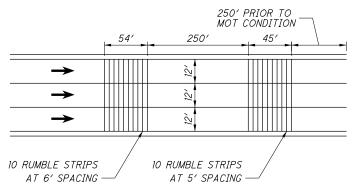
RUMBLE STRIPS WILL BE REMOVED WHEN THEY ARE NO LONGER NEEDED AS DETERMINED BY THE ENGINEER. WHEN THE MILLED RUMBLE STRIPS ARE NO LONGER NEEDED, THE ENTIRE WIDTH OF THE LANE CONTAINING THE STRIPS WILL BE MILLED TO A DEPTH OF 1 1/4" AND RESURFACED WITH ITEM 448 ASPHALT CONCRETE SURFACE COURSE TYPE 1, PG 64-22.

A W8-H16-48 SIGN (RUMBLE STRIPS) WILL BE DUAL MOUNTED APPROXIMATELY 500 FEET IN ADVANCE OF THE RUMBLE STRIP INSTALLATION. THE PROVISION, ERECTION, MAINTENANCE AND REMOVAL OF THE SIGNS AND SUPPORTS WILL BE INCLUDED IN THE COST OF THE RUMBLE STRIPS.

THIS ITEM WILL BE PAID FOR BY THE FOOT AT ONE HALF [0.5] INCH THICKNESS FOR 740.08 HEAT-FUSED PREFORMED PLASTIC OR ONE HALF [0.5] INCHES OF MILLED THICKNESS. THIS WILL INCLUDE ALL LABOR MATERIALS AND EQUIPMENT FOR THE INSTALLATION, MAINTENANCE AND REMOVAL OF THE RUMBLE STRIPS.

ITEM SPECIAL - RUMBLE STRIPS

2,880 FOOT



RUMBLE STRIP PLACEMENT DETAIL
(NOT TO SCALE)

ITEM 614. MAINTAINING TRAFFIC. MISC.: "SNAP" MILL AND FILL

MAINTENANCE OF TRAFFIC ON THE MEDIAN SHOULDER WILL
REQUIRE THE EXISTING "SNAPS" TO BE MILLED AND FILLED.
PAYMENT FOR THIS ITEM SHALL INCLUDE ALL OF THE
FOLLOWING: REMOVAL OF THE EXISTING "SNAPS" BY MILLING I
1/2" DEEP AND 2' WIDE; TACK COATING ALL EXPOSED MILLED
SURFACES; AND PAYING THE MILLED AREA WITH 1/2" OF
(ITEM 422 - ASPHALT CONCRETE SURFACE COURSE, 12.5 MM
TYPE A, (488). ALL LABOR, EQUIPMENT, MATERIALS, AND
INCIDENTALS NEEDED TO COMPLETE THE ABOVE MENTIONED
WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM
614 - MAINTAINING TRAFFIC, MISC.: "SNAP" MILL AND FILL.

ITEM 614 - MAINTAINING TRAFFIC, MISC.: "SNAP" MILL AND FILL 20,000 FT

ITEM 614. MAINTAINING TRAFFIC. MISC.: BRIDGE DECK AND PAVEMENT PATCHING

THIS WORK WILL BE AS DIRECTED BY THE ENGINEER AND WILL INCLUDE ALL ASSOCIATED MOT COSTS WITH THE ACTIVITY. THE COST FOR EACH ITEM SHALL BE \$1.00. THE FIXED AMOUNT SHOWN IN THE PROPOSAL IS INCLUDED (AS ANY OTHER BID ITEMS) IN THE TOTAL BID AMOUNT. THIS FIXED AMOUNT IS THE DEPARTMENT'S ESTIMATE OF THE TOTAL COST OF BRIDGE DECK AND PAVEMENT PATCHING WORK REQUIRED TO BE PERFORMED WITHIN THE WORK LIMITS AS DIRECTED BY THE ENGINEER. C&MS TABLE 104.02-2 DOES NOT APPLY TO REDUCTIONS IN THIS CONTRACT ITEM. FORCE ACCOUNT RECORDS SHALL BE KEPT TO TRACK AND ULTIMATELY DETERMINE THE AMOUNT OF THE PAY ITEM USED. THE WORK ITEM SHALL INCLUDE ALL WORK, AS DIRECTED BY THE ENGINEER, NEEDED TO RE-ESTABLISH A REASONABLY SAFE AND PASSABLE CONDITION OF THE DECK AND/OR PAVEMENT FOR THE DURATION OF THE REQUIRED UPCOMING MOT PHASES. THE CONTRACTOR SHALL MEET WITH THE ENGINEER TO ESTABLISH THE WORK AFTER EXECUTION OF THE CONTRACT. THE CONTRACTOR'S PROPOSED PHASING AND PHASING DURATIONS WILL ASSIST THE ENGINEER IN DETERMINING THE EXTENT OF THE WORK. THIS WORK IS ONLY INTENDED TO ESTABLISH A SAFE AND DRIVABLE CONDITION FOR THE DURATION OF THE PROJECT. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITIES OF

ITEM 614 - MAINTAINING TRAFFIC, MISC: BRIDGE DECK AND PAVEMENT PATCHING 100,000 EACH

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												}						MAINTENANCE OF TRAFFIC		1
							450					405	45	202	30700	450	FT	CONCRETE BARRIER REMOVED		-
							700			1,674		1,507	167	202	35100	1,674	FT	PIPE REMOVED, 24" AND UNDER		
										1) 1		202	58000	1	EACH	MANHOLE REMOVED		コ
										13		12	1	202	58100	13	EACH	CATCH BASIN REMOVED		┥、
										1	lacksquare	1		202	58400	1	EACH	INLET ABANDONED		⊣ ≿
										3 (1	3		202	58500	3	EACH	CATCH BASIN ABANDONED		⊢ A
										8	1	7	1	SPECIAL	20270000	8	FT	FILL AND PLUG EXISTING CONDUIT, 15"	83	Ξ
										135		122	13	SPECIAL	20270000	135	FT	FILL AND PLUG EXISTING CONDUIT, 18"	83	∃ ∑
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							650			(}	585	65	411	10000	650	CY	STABILIZED CRUSHED AGGREGATE		⊣ જે
							21				1	19	2	441	50000	21	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22		⊢ ш
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										584		526	58	611	04400	584	FT	12" CONDUIT, TYPE B		ш
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							10			28	}	25	3 1	611 611	05900 05901	28 10	FT FT	15" CONDUIT, TYPE B 15" CONDUIT, TYPE B, AS PER PLAN, 706.02	83	⊢ ر
							70			74	1	67	7	611	06100	74	FT	15" CONDUIT, TYPE C	- 00	
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										10		9	1	611	06100	10	FT	15" CONDUIT, TYPE C, 706.02		⊣ ⊲
										162 218) 146 196	16 22	611 611	07400 07600	162 218	FT FT	18" CONDUIT, TYPE B 18" CONDUIT, TYPE C		— □
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										1 (8	1		611	98370	1	EACH	CATCH BASIN, NO. 6		□ ш
										1 (8	1		611	98410	1	EACH	CATCH BASIN, NO. 8		□ 5
							1			14	}	13	1	611	98470	14	EACH	CATCH BASIN, NO. 2-2B	0.7	⊣ ັ
							/			1) /		611 611	99101 99574	1	EACH EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1, AS PER PLAN MANHOLE, NO. 3	83	— Щ
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					850					(765	85	614	11110	850	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE		Z
					40.050			1	175 005	({ }	1	17.001	SPECIAL	61411300	1	EACH	WORK ZONE TRAFFIC SIGNAL	84	-
	+				42,950				135 , 265 50	(}	160,394 45	17 , 821	614 614	11630 12381	178,215 50	FT EACH	INCREASED BARRIER DELINEATION WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL), AS PER PLAN	77	⊢ ն
LS									30	(}	73	3	614	12420	LS	LACIT	DETOUR SIGNING	77	⊣ ⊢
									18	Ò		16	2	614	12470	18	EACH	WORK ZONE SPEED LIMIT SIGN		<u> </u>
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	13	2) 12	/	614 614	12484 12756	13	EACH EACH	WORK ZONE INCREASED PENALTIES SIGN WORK ZONE CROSSOVER LIGHTING SYSTEM		⊢ ≥
									6,416	($iggl\}$	5,774	642	614	12801	6,416	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	80	\dashv
100									,	(8	90	10	614	13001	100	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC, AS PER PLAN	74	
										({		~~~~			mm	\	A LOOKED DEEL SOTOD. THOSE A A MILLY		_
					619				2,478 233	,	36	2,820	<i>313</i>	614 614	13310 13310	3,133	EACH	BARRIER REFLECTOR, TYPE 1, 1 WAY BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL		-
					240				233			216		614	13312	240	EACH	BARRIER REFLECTOR, TYPE 2, 1 WAY		\dashv
					859				2,711		36	3.245	361	614	13350	3,606	VA EACH	OBJECT MARKER, ONE WAY		
										(Jún.								4
	-			150								135	15	614	18000	150	EACH	MAINTAINING TRAFFIC, MISC.: WORK ZONE RAISED PAVEMENT MARKERS ON	80	5
	+					100,000				(-	90,000	10,000	614	18000	100,000	EACH	PERMANENT CONCRETE SURFACES MAINTAINING TRAFFIC, MISC.: BRIDGE DECK AND PAVEMENT PATCHING	82	– સં
						2,880				(2,592	288	614	18030	2,880	FT	MAINTAINING TRAFFIC, MISC.: RUMBLE STRIPS	82	∃.\
						20,000				(18,000	2,000	614	18030	20,000	FT	MAINTAINING TRAFFIC, MISC.: "SNAP" MILL AND FILL	82	
												K .7.6		<u> </u>	1000		G -	DODTABLE QUANCEARIE NECCAOE CON AC DED DAM		\ <u>'</u> 2
			144						27.7	(0.7	130 25.6	2.8	614 614	18601 20011	28.4	SNMT V4\ MILE	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN WORK ZONE LANE LINE, CLASS I, 6", AS PER PLAN	78 82	+
	24								21.1		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	23.0		614	20410	20.4	MILE	WORK ZONE LANE LINE, CLASS I, 6, AS PER PLAN WORK ZONE LANE LINE, CLASS II, 6"	02	∐ ′
									78.9		1.5	72.4	8	614	22011	80.4	MILE MILE	WORK ZONE EDGE LINE, CLASS I, 6", AS PER PLAN	82	1
																h				ן
									108,460		4,224	101,415	11 , 269	614	23011	112,684	14 FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", AS PER PLAN	82	_ ⊃
	25,500								43,361	(}	39,025	4,336 2,550	614 614	24001 28000	43,361 25,500	FT FT	WORK ZONE DOTTED LINE, CLASS I, AS PER PLAN WORK ZONE GORE MARKING, CLASS II	82	၂ တ
	20,000									({	22,330	2,000	014	20000	20,000	FI			_
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	76	77	78	80	81	82	83	84	113	114	74A	01/IMS/ PV	02/IMS/ PV	17211	EXT	TOTAL	07117	DESCRIPTION	NO.
										(<u> </u>						MAINTENANCE OF TRAFFIC	
										(1	(615	10000	LS		ROADS FOR MAINTAINING TRAFFIC	
									12,728	(11,455	1,273	615	20000	12,728	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	
							1,000		,	(900	100	615	25001	1,000	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN, TYPE 1	83
							1,000			(900	100	615	25001	1,000	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN, TYPE 2	83
							1,000			(900	100	615	25001	1,000	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN, TYPE 3	83
	1 400									(1,000	140	010	10000	1 400	140.47	WATER	
- 1,	1,400									(1,260	140	616	10000	1,400	MGAL	WATER	
							450 2			(405	45	622 622	10100 25006	450 2	FT EACH	CONCRETE BARRIER, SINGLE SLOPE, TYPE B1 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B1	
									11,670	(10,503	1,167	622	41011	11,670	FT	PORTABLE BARRIER, 50", AS PER PLAN	76
									6		}	5	1,101	622	41050		EACH	PORTABLE BARRIER, "Y" CONNECTOR	- 70
									122,995	,	1,800	112 315	12 480) 622	41100	124 795		PORTABLE BARRIER, UNANCHORED	
									600		1,000	222	12,480	622	41110	124,795 600	FT	PORTABLE BARRIER, ANCHORED	
				1	1				000		1) 340	00	022	41110	000	F /	FORTABLE BARRIER, ANCHONED	
									1,443	(}	1,299	144	630	80200	1,443	SF	SIGN, GROUND MOUNTED EXTRUSHEET	
				1					2,344			2,110	234	630	80224	2,344	SF	SIGN, OVERHEAD EXTRUSHEET	
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		288								(259	29	808	18700	288	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	
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FFICE ALCS	73	407	408	410	416	444	911	1158	1184	1228	01/IMS/PV	02/IMS/PV	03/IMS/BR	04/IMS/BF	05/IMS/BR	06/IMS/BR		EXT.	TOTAL		2 2 2 3 7 . 2	NO
																					ROADWAY (CONTINUED)	
		9									8	1					622	25050	9	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D	
		2									2						622	25051	2	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D, AS PER PLAN	68
	12										11	1					623	38500	12	EACH	MONUMENT ASSEMBLY	
	2										2	· '					623	39500	2	EACH	MONUMENT BOX ADJUSTED TO GRADE	
											_				1		323	33333		27.017	WORKER BOY 18880128 TO STINE	
	6										5	1					SPECIAL	69098000	6	EACH	VERTICAL CLEARANCE	68
																					- ROADWAY (RIGID PAVEMENT OPTION)	
-	16400				160956						159620	17736					203	10000	177356	CY	<u>EXCAVATION</u>	
	16300				85288						91429	10159					203	20000	101588	CY	<u>EMBANKMENT</u>	
																					EROSION CONTROL	
			354								319	35					601	10990	354	SY	RIPRAP, TYPE C	
			746	$\frac{1}{8}$	14					140	679	75					601	11000	754	A SY	RIPRAP, TYPE D	
			1,10	Min.	1			310		210	Turing 1	1	202	108	210		601	20000	520	SY	CRUSHED AGGREGATE SLOPE PROTECTION	
72								1		1	245	27	1	T	† -:- †		601	21000	272	SY	CONCRETE SLOPE PROTECTION	1
	8		128								122	14					601	21050	136	SY	TIED CONCRETE BLOCK MAT WITH TYPE I UNDERLAYMENT	
			94								85	9					601	21060	94	SY	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT	
							21									21	601	28101	21	CY	DUMPED ROCK FILL, AS PER PLAN	910
				26							23	3					601	32000	26	CY	ROCK CHANNEL PROTECTION, TYPE A WITH FILTER	
				61							55	6					601	32100	61	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	
			12								11	1					601	32104	12	CY	ROCK CHANNEL PROTECTION, TYPE B WITH GEOTEXTILE FABRIC	
				7							6	1					601	32110	7	CY	ROCK CHANNEL PROTECTION, TYPE B WITH AGGREGATE FILTER	+
				<u>'</u>					637		Ť	<u> </u>	414	223			601	32200	637	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
			70								63	7					601	32204	70	CY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC	
			17	3							18	2					601	32210	20	CY	ROCK CHANNEL PROTECTION, TYPE C WITH AGGREGATE FILTER	
				78							70	8					601	37500	78	FT	PAVED GUTTER, TYPE 1-2	
			507								456	51					601	37501	507	FT	PAVED GUTTER, TYPE 1-2, AS PER PLAN	72
					3						3						659	00100	3	EACH	SOIL ANALYSIS TEST	
					23844						21460	2384					659	00300	23844	CY	TOPSOIL	
					214809						193328	21481					659	10000	214809	SY	SEEDING AND MULCHING	
					10741						9667	1074					659	14000	10741	SY	REPAIR SEEDING AND MULCHING	
					10741						9667	1074					659	15000	10741	SY	INTER-SEEDING	
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						LS					LS	LS					832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
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						1150000					1035000	115000					832	30000	1150000	EACH	EROSION CONTROL	72
			5435		-					1	4892	543			+ +		836	10000	5435	SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE I	
			299								269	30					836	10020	299	SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 2	
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		24"	MOVEL	EXISTING 24"	ROCK CHANNEL PROTECTION, TYPE A FILTER		ROCK CHANNEL PROTECTION, TYPE B V	ROCK CHANNEL PROTECTION, TYPE B I AGGREGATE FILTER	NEL PE C WI: 1L TER	TYPE	MASONRY		PE D	В			
	SHEET No.	REMOVED, UNDER	RE	7LUG 1	CHAN V, TYF IL TER		CHAN V, TYF IL TER	CHAN V, TYF ATE F	CHAN V, TYH ATE F	TER,	TE MA.		, TYPE	R			
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-dgn	SHEET NO.	CONBUIT, 706.02	24" CONDUIT, 706.02	CONDUIT, BORED OR JACKED, 30°, TYPE 4, 748.06	CONDUIT, MISC.: 30", TYPE A, 748.06, OPEN CUT		60" CONBUIT, 706.02	CONDUIT, 706.02	96" CONDUIT, 707.02, 707.03	FIELD PAVING OF EXISTING PIPE, 96" 707.02, 707.03 OR 707.04	CONDUIT, FIELD PAVING OF PIPE, 96" 707.02, 707.03 OR 707.04						
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