

ITEM 611 - DRAINAGE STRUCTURE, MISC.: CATCH BASIN LINING

THE EXISTING CATCH BASIN AT STA. 94+66.12, RT SHALL BE LINED ON ALL SIDES AND THE BOTTOM WITH 1/8" PLATES MADE OF ALUMINUM, STAINLESS STEEL, OR HOT-DIPPED GALVANIZED STEEL. THE PLATES SHALL BE SECURELY FASTENED TO THE CATCH BASIN. THE PLATES SHALL NOT COVER ANY PIPE INLETS.

COSTS FOR ALL WORK, LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM BID FOR THIS ITEM. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

611, DRAINAGE STRUCTURE MISC.: CATCH BASIN LINING LS

ITEM 611 - MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN 1

FOR EXISTING SANITARY MANHOLES ADJACENT TO OR WITHIN THE PROPOSED CURB AND GUTTER AREA (STA. 80+99, 14.3' LT; STA. 83+37, 16.4' LT; STA. 85+15, 25.9' LT; STA. 91+83, 25.2' LT; AND STA. 101+45, 25.5' LT) THAT INTERFERE WITH CONSTRUCTION OF THE CURB AND GUTTER, AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL REMOVE ENOUGH OF THE EXISTING MANHOLE STRUCTURE IN ORDER TO INSTALL AN ECCENTRIC CONE TOP, PER SCD MH-3, TO ENSURE THAT THE MANHOLE DOES NOT INTERFERE WITH CONSTRUCTION OF THE CURB AND GUTTER. THE CONTRACTOR SHALL APPLY A WATERTIGHT SEAL TO THE LID.

PAYMENT SHALL BE MADE AT THE UNIT PRICE PER EACH AND SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE WORK AS DESCRIBED INCLUDING THE ECCENTRIC CONE TOP.

ITEM 611 - MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN 2

THE CONTRACTOR SHALL PERFORM ALL WORK AS DEFINED IN THE CMS EXCEPT FOR THE LIMITS OF THE REMOVALS WHICH ARE DEFINED IN THE PLANS. THE CONTRACTOR IS NOT REQUIRED TO REMOVE OR REPAIR THE WALLS OF THE STRUCTURE UNLESS DAMAGED BY THEIR OWN OPERATIONS AS IDENTIFIED BY THE ENGINEER.

CONTRACTION AND/OR EXPANSION JOINTS

ALTHOUGH SPECIFIC LOCATIONS OF CERTAIN CONTRACTION AND EXPANSION JOINTS HAVE BEEN DETAILED ON THIS PLAN, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. IN ALL CASES, THE PROVISION OF EXPANSION JOINTS AT ALL MAJOR STRUCTURES INCLUDING THE MAXIMUM SPACING BETWEEN CONTRACTION JOINTS IS IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING BP-2.2 AND THE SPECIFICATIONS.

CONTRACTION JOINTS IN CONCRETE PAVEMENT OR BASE WIDENING

WHERE NEW CONCRETE IS PLACED ADJACENT TO AND TIED TO EXISTING CONCRETE, THE CONTRACTION JOINT SPACING REQUIRED IN STANDARD CONSTRUCTION DRAWING BP-2.2 WILL BE WAIVED. CONSTRUCT CONTRACTION JOINTS IN THE NEW CONCRETE PAVEMENT TO FORM A CONTINUOUS LINE WITH ALL CONTRACTION JOINTS IN THE EXISTING CONCRETE PAVEMENT. INSTALL EXPANSION JOINTS IN THE NEW CONCRETE PAVEMENT TO FORM A CONTINUOUS LINE WITH ALL EXPANSION JOINTS IN THE EXISTING CONCRETE PAVEMENT.

ITEM 202 - REMOVAL MISC.: CONCRETE FOUNDATIONS

THE EXISTING CONCRETE FOUNDATIONS AT STA. 93+21, 20' RT AND STA. 99+04, 20.3' RT SHALL BE REMOVED AND DISPOSED OF. COSTS FOR ALL WORK, LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS ITEM.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

202, REMOVAL MISC.: CONCRETE FOUNDATIONS 2 EACH

ITEM 202 - REMOVAL MISC.: STONES, POSTS, LANDSCAPING, AND WALLS

THE EXISTING STONES, POSTS, LANDSCAPING, AND WALLS MARKED SHALL BE REMOVED AND DISPOSED OF AS DIRECTED BY THE ENGINEER.

INCLUDED IN THE LUMP SUM COST OF THIS ITEM ARE THE FOLLOWING QUANTITIES AND LOCATIONS FOR INFORMATION ONLY:

STONES 26 EACH
STA. 79+83, 22' RT; STA. 80+04, 19' RT;
STA. 80+06, 33' RT; STA. 80+12, 19' RT;
STA. 80+35, 18' RT TO STA. 80+76, 19' RT;
STA. 82+69, 22' LT; STA. 83+33, 18' RT;
STA. 85+41, 30' LT; STA. 85+65, 35' LT;
STA. 86+55, 31' RT TO STA. 86+66, 21' RT;
STA. 91+32, 29' RT

POSTS 1 EACH
STA. 82+81, 46' RT

LANDSCAPING 1 EACH
STA. 85+41, 20' LT

WALLS 3 EACH
STA. 77+41, 29' RT; STA. 77+64, 33' RT;
STA. 82+67, 38' RT

COSTS FOR ALL WORK, LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS ITEM.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

202, REMOVAL MISC.: STONES, POSTS, LANDSCAPING, AND WALLS LS

ITEM 202 - STRUCTURE REMOVED, AS PER PLAN

THE EXISTING STONE RETAINING WALL AND CONCRETE STAIRS AT STA. 79+32, 30' LT SHALL BE REMOVED AND DISPOSED OF. COSTS FOR ALL WORK, LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS ITEM.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

202, STRUCTURE REMOVED, AS PER PLAN LS

ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

- SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.
- EXCAVATE AND REPLACE UNSUITABLE SUBGRADE BEFORE PROOF ROLLING. THE EXCAVATION LIMITS ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSUITABLE SUBGRADE. UNSUITABLE SUBGRADE INCLUDES UNSUITABLE SOIL (A-4B, A-2-5, A-5, A-7-5, AND SOIL WITH A LIQUID LIMIT GREATER THAN 65) AND ANY COAL, SHALE, OR ROCK WHICH NEEDS TO BE REMOVED ACCORDING TO SECTION 204.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS).

IF THERE IS UNSUITABLE SUBGRADE IN A SHALLOW FILL LOCATION, EXCAVATE AND REPLACE THE UNSUITABLE SUBGRADE BEFORE CONSTRUCTING THE SHALLOW FILL AND SHAPING THE SUBGRADE.
- COMPACT THE SUBGRADE ACCORDING TO C&MS 204.03.
- APPROXIMATE LIMITS FOR EXCAVATION OF UNSTABLE SUBGRADE ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSTABLE SUBGRADE. THE ENGINEER WILL IDENTIFY THE ACTUAL LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS.

PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO C&MS 204.06.
- EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BY REPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO C&MS 204.07. EXCAVATIONS WILL EXTEND 18 INCHES BEYOND THE EDGE OF THE SURFACE OF THE PAVEMENT, PAVED SHOULDERS, OR PAVED MEDIANS.
- PROOF ROLL THE STABILIZED AREAS ACCORDING TO C&MS 204.06 TO VERIFY STABILITY.
- FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

THE QUANTITIES FOR EXCAVATING THE UNSUITABLE SUBGRADE AND UNSTABLE SUBGRADE ARE BOTH PAID UNDER ITEM 204, EXCAVATION OF SUBGRADE.

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 100 FT. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT FORM 7460-1 TO THE FAA. NOTIFY THE ODOT OFFICE OF AVIATION WHEN SUBMITTING FAA FORM 7460-1.

NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND THE ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

FEDERAL AVIATION ADMINISTRATION
SOUTHWEST REGIONAL OFFICE
OBSTRUCTION EVALUATION GROUP
10101 HILLWOOD PARKWAY
FORT WORTH, TX 76177
FAX: (817) 222-5920
<http://ceaaa.faa.gov>

OHIO DEPARTMENT OF TRANSPORTATION OFFICE OF AVIATION
2829 WEST DUBLIN-GRANVILLE ROAD
COLUMBUS, OHIO 43235
Ohio.airport.protection@dot.ohio.gov

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 AND THE STATE LISTED AND PROTECTED LITTLE BROWN BAT AND TRICOLORED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 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.

THE CONTRACTOR SHALL DEMARCATÉ CLEARING LIMITS IN THE FIELD TO AVOID ANY UNAUTHORIZED TREE CLEARING. AFTER CLEARING LIMITS ARE MARKED IN THE FIELD, SET UP A FIELD MEETING WITH THE ENGINEER FIVE (5) DAYS PRIOR TO ANY CLEARING ACTIVITY TO APPROVE THE LIMITS.

ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN

THIS ITEM SHALL CONSIST OF CONSTRUCTING CONCRETE BARRIER, SINGLE SLOPE, TYPE D WITH A 9" FOOTER. FOR DETAIL SEE SHEET 159.

ALL LABOR, MATERIALS, EQUIPMENT, EXCAVATION AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SHOWN ON THE PLANS SHALL BE INCLUDED FOR PAYMENT UNDER THE PER FOOT PRICE FOR ITEM 622, CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN.

ITEM SPECIAL - GAS VALVE BOX ADJUSTED TO GRADE

IN ADDITION TO THE REQUIREMENTS OF CMS 638.18 FOR VALVE BOXES, THE CONTRACTOR WILL MAKE A CLEAN CIRCULAR CUT AROUND THE CASTING (A MINIMUM OF 1'-0" OUTSIDE OF THE CASTING) AND ADJUST THE CASTING TO GRADE (ACCORDING TO THE TOLERANCES AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1) AFTER THE PAVEMENT SURFACE COURSE HAS BEEN PLACED.

CMS 499 CONCRETE (DYE THE CONCRETE SUCH THAT ITS COLOR CLOSELY MATCHES THE COLOR OF THE SURROUNDING PAVEMENT) WILL BE USED FOR BACKFILLING THE FULL PAVEMENT SECTION AND THE JOINT BETWEEN THE ASPHALT AND CONCRETE WILL BE SEALED WITH CMS 702.01 PG BINDER. EPOXY COATED REBAR SHALL BE PLACED IN THE CONCRETE AT 6" MAXIMUM ON CENTER AND A MINIMUM OF 3.5" CLEARANCE FROM THE TOP, BOTTOM AND SIDES. THE CONCRETE WILL BE VIBRATED SUFFICIENTLY TO ELIMINATE AIR POCKETS UNDER THE FRAME.

PAYMENT WILL INCLUDE REMOVAL OF THE EXISTING MATERIAL, INSTALLATION AND FURNISHING OF A NEW CASTING, AND ALL LABOR AND MATERIALS REQUIRED TO COMPLETE THIS ITEM OF WORK AS DESCRIBED.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

SPECIAL, GAS VALVE BOX ADJUSTED TO GRADE 15 EACH

FENCE LENGTHS

THE LENGTHS OF FENCE SHOWN IN THE PLANS ARE HORIZONTAL DIMENSIONS. MEASUREMENTS OF THE FINAL QUANTITIES WILL BE IN ACCORDANCE WITH ITEM 607.

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GENERAL NOTES

CUY-77-4.79

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

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

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED 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 FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

FOR OPERATIONS WITHOUT POSITIVE PROTECTION OCCURRING WITHIN 10 FEET OF AN OPEN TRAVELED LANE THAT MEET ALL OF THE FOLLOWING CRITERIA:

ON A MULTI-LANE DIVIDED INTERSTATE, OTHER FREEWAY OR EXPRESSWAY; AND

AN AUTHORIZED SPEED LIMIT OF 45 MPH OR GREATER THAT IS IN EFFECT AT THE TIME OF THE OPERATION; AND,

AADT OF 50,000 (OR AADT OF 30,000 WITH 25% OR HIGHER PERCENT TRUCKS)

"WITHOUT POSITIVE PROTECTION" MEANS USE OF DRUMS, CONES, SHADOW VEHICLE, ETC, WITHOUT PROTECTION FROM PORTABLE BARRIER OR OTHER RIGID BARRIER ALONG THE WORK AREA. THIS PHRASE DOES NOT APPLY TO CASES WHERE POSITIVE PROTECTION IS REQUIRED. MOBILE OPERATIONS ARE REGARDED AS "WITHOUT POSITIVE PROTECTION". FOR WORK ZONES USING A COMBINATION OF BARRIER AND TEMPORARY TRAFFIC CONTROL DEVICES (CONES, DRUMS, ETC), THE DESIGNATION SHALL BE BASED UPON THE TYPE OF DEVICES USED IN THE AREA THAT WORKERS ARE LOCATED.

IF MULTIPLE ACTIVE LOCALIZED QUALIFYING WORK AREAS OCCUR WITHOUT POSITIVE PROTECTION, PER MAINLINE TRAFFIC DIRECTION, PROVIDE A UNIFORMED LEO AND OFFICIAL PATROL CAR IN ADVANCE OF:

THE FIRST ACTIVE WORK AREA THAT DRIVERS WILL ENCOUNTER; OR

THE ACTIVE WORK AREA Laterally CLOSEST TO THE OPEN TRAVELED LANE; OR

OTHER LOCATION AS APPROVED BY THE ENGINEER.

THE UNIFORMED LEO AND OFFICIAL PATROL CAR MAY RELOCATE AMONG THE LISTED LOCATIONS AS APPROPRIATE AS THE OPERATIONS PROCEED IN THE LOCALIZED QUALIFYING WORK AREAS.

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION (OR AT THE POINT OF ROAD CLOSURE), AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

LEOS 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.

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS (CONT.)

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE THAT SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (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 QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 240 HOURS

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

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

TIME LIMITATIONS AND DISINCENTIVES

WALLINGS ROAD SHALL BE OPEN TO TWO-WAY TRAFFIC BEFORE ANY WINTER SEASON WITHIN THE CONTRACT. SEE BELOW FOR RESTRICTIONS AND MILESTONE DATES:

INTERIM DATE: SEPTEMBER 30, 2024 - TWO-WAY TRAFFIC

SUBSTANTIAL COMPLETION DATE: SEPTEMBER 30, 2025 - PHASE 4 COMPLETE

A \$5000 PER DAY DISINCENTIVE WILL BE APPLIED FOR MISSING EITHER THE INTERIM OR SUBSTANTIAL COMPLETION DATES.

ITEM SPECIAL - WORK ZONE TRAFFIC SIGNAL

THIS WORK SHALL CONSIST OF FURNISHING, ERECTING, OPERATING, MAINTAINING, AND REMOVING A TEMPORARY TRAFFIC SIGNAL. THE CONTRACTOR WILL SUBMIT TEMPORARY SIGNAL PLANS TO THE ENGINEER FOR APPROVAL TWO WEEKS PRIOR TO THE INSTALLATION OF THE SIGNAL. THE TEMPORARY SIGNAL WILL MEET THE REQUIREMENTS OF THE OMUTCD, PART 4. THE CONTRACTOR SHALL ARRANGE FOR AND PAY FOR POWER. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH APPLICABLE PORTIONS OF 630, 632, 633, 730, 732, AND 733 EXCEPT: THE WORKING DRAWING REQUIREMENT OF 632.04 IS WAIVED AND USED MATERIALS IN GOOD CONDITION IS ACCEPTABLE.

THE CONTRACTOR SHALL PROVIDE TEMPORARY VEHICLE DETECTION FOR ANY MOVEMENT WHERE AN EXISTING LOOP DETECTOR IS NO LONGER ABLE TO PROVIDE SUCH DETECTION DUE TO THE SHIFTING OF LANES FOR MAINTENANCE OF TRAFFIC PURPOSES. THE USE OF PHASE RECALL IS NOT AN ACCEPTABLE ALTERNATIVE TO PROVIDING THE REQUIRED TEMPORARY VEHICLE DETECTION.

IF TIMING CHANGES ARE REQUESTED BY THE ENGINEER, THE CHANGES SHALL BE IMPLEMENTED BY THE CONTRACTOR. THE CONTRACTOR SHALL ADJUST THE LOCATIONS OF THE EXISTING, TEMPORARY, OR PROPOSED SIGNAL HEADS FOR EACH PHASE OF CONSTRUCTION IN ACCORDANCE WITH THE OMUTCD. THE CONTRACTOR SHALL ENSURE THAT ALL MINIMUM/MAXIMUM SIGNAL HEAD TO PAVEMENT CLEARANCES ARE MAINTAINED AT ALL TIMES, AND SHALL FIRST BE APPROVED BY THE ENGINEER. NO REDUCTION IN CLEARANCES SHALL BE PERMITTED.

THE COST FOR ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO PROVIDE AND MAINTAIN THE WORK ZONE TRAFFIC SIGNAL SHALL BE INCLUDED IN THE UNIT PRICE FOR EACH ITEM SPECIAL - WORK ZONE TRAFFIC SIGNAL. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

SPECIAL, WORK ZONE TRAFFIC SIGNAL 2 EACH

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B

THIS WORK SHALL BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH THE ODOT C&MS. THE FOLLOWING IS AN ESTIMATED QUANTITY FOR EACH LOCATION:

PHASE 1

WALLINGS ROAD
STA. 76+05 TO STA. 79+62, LT 278 SY
STA. 80+23 TO STA. 85+18, LT 385 SY
STA. 86+00 TO STA. 92+06, LT 270 SY
STA. 93+08 TO STA. 93+97, LT 40 SY
STA. 97+20 TO STA. 98+33, LT 100 SY
STA. 98+72 TO STA. 102+03, LT 454 SY

MILL ROAD
STA. 26+65 TO STA. 29+72, LT 563 SY

RAMP D2
STA. 52+23 TO STA. 53+37, RT 83 SY

PHASE 2

RAMP D3
STA. 53+36 TO STA. 55+32, LT 135 SY

TOTAL CARRIED TO GENERAL SUMMARY: 2,308 SY

ITEM 622 - PORTABLE BARRIER, ANCHORED, AS PER PLAN

THIS ITEM OF WORK CONSISTS OF FURNISHING AND INSTALLING ANCHORED PORTABLE BARRIER IN CONFORMANCE WITH THE PLANS, STANDARD DRAWING PCB-91, AND C&MS 622. THE USE OF PORTABLE BARRIER PER STANDARD DRAWING PCB-91 IS REQUIRED AT BEAM LINE D IN BRIDGE CONSTRUCTION PHASES 2.1 AND 2.2. PORTABLE BARRIER PER STANDARD DRAWING RM-4.2 IS NOT PERMITTED AT THIS LOCATION DUE TO NEED TO ANCHOR PORTABLE BARRIER ON THE EXISTING BRIDGE DECK WITH ZERO OFFSET TO THE DECK CUT LINE.

TEMPORARY VANDAL PROTECTION FENCE, TYPE B, IN ACCORDANCE WITH STANDARD DRAWING TVPF-1-18, SHALL EXTEND OVER THE BRIDGE LIMITS AND WILL BE PAID FOR SEPARATELY UNDER ITEM 607 - TEMPORARY VANDAL FENCE, TYPE B.

DELINEATION OF PORTABLE AND PERMANENT BARRIER

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL; AND, ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.

BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.

INCREASED BARRIER DELINEATION, AS SPECIFIED HEREIN, SHALL BE INSTALLED ON ALL PB AND PERMANENT CONCRETE BARRIER LOCATED WITHIN 5 FEET OF THE EDGE OF THE TRAVELED LANE UNDER EITHER OF THE FOLLOWING CONDITIONS: ALONG TAPERS AND TRANSITION AREAS; OR ALONG CURVES (OUSTIDE ONLY) WITH DEGREE OF CURVATURE GREATER THAN OR EQUAL TO 3 DEGREES.

THE INCREASED BARRIER DELINEATION SHALL CONSIST OF EITHER DELINEATION PANELS OR THE TRIPLE STACKING OF WORK ZONE BARRIER REFLECTORS.

DELINEATION PANELS SHALL CONSIST OF PANELS OF DELINEATION, APPROXIMATELY 34 INCHES LONG AND 6 INCHES WIDE AND SHALL BE "CRIMPED." PANELS SHALL BE INSTALLED AND SPACED PER TRAFFIC SCD MT-101.70.

TRIPLE-STACKED BARRIER REFLECTORS SHALL CONSIST OF ALIGNING THREE BARRIER REFLECTORS VERTICALLY, AT LOCATIONS WHERE A SINGLE BARRIER REFLECTOR WOULD BE OTHERWISE ATTACHED. THERE SHALL BE NO OPEN SPACE BETWEEN THE ADJACENT BARRIER REFLECTORS. THE TRIPLE-STACKED BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THEY SHALL BE SPACED AND ALIGNED PER TRAFFIC SCD MT-101.70.

THE FOLLOWING PAY ITEMS HAVE BEEN QUANTIFIED IN THE MAINTENANCE OF TRAFFIC SUBSUMMARY:

614, BARRIER REFLECTOR, TYPE 1 (ONE-WAY OR BIDIRECTIONAL)

614, OBJECT MARKER, ONE-WAY

614, OBJECT MARKER, TWO-WAY

614, INCREASED BARRIER DELINEATION

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING EACH OF THE ABOVE ITEMS.

ALONG RUNS OF INCREASED BARRIER DELINEATION WHERE THIS ITEM IS PROVIDED, THE QUANTITY SHALL BE MEASURED AS THE ENTIRE LENGTH OF THE RUN OF INCREASED BARRIER DELINEATION, INCLUDING THE SPACES BETWEEN THE INDIVIDUAL DELINEATION PANELS OR STACKS OF BARRIER REFLECTORS.

PHASE 1 BRIDGE WALK REMOVAL

THE FOLLOWING ITEMS HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED ON THE EXISTING REMAINING BRIDGE PARAPET DURING PHASE 1 OF CONSTRUCTION FOR REMOVAL OF THE WALK ON THE NORTH SIDE OF THE BRIDGE:

614, INCREASED BARRIER DELINEATION 50 FT

614, WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL) 2 EACH

614, BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL 8 EACH

614, OBJECT MARKER, TWO-WAY 8 EACH

614, PORTABLE BARRIER, UNANCHORED 380 FT

CALCULATED
KAH
CHECKED
FRR

MAINTENANCE OF TRAFFIC GENERAL NOTES

CUY-77-4.79

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REF NO.	SHEET NO.	STATION TO STATION	SIDE	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	
				12" CONDUIT, TYPE B FT	12" CONDUIT, TYPE B, 706.02 FT	12" CONDUIT, TYPE B, 707.32 FT	15" CONDUIT, TYPE B FT	15" CONDUIT, TYPE B, 706.02 FT	15" CONDUIT, TYPE B, 706.08 FT	15" CONDUIT, TYPE F, 707.05 TYPE C OR 707.21 FT	CATCH BASIN, NO. 3 EACH	CATCH BASIN, NO. 3A EACH	CATCH BASIN, NO. 6 EACH	CATCH BASIN ADJUSTED TO GRADE EACH	CATCH BASIN RECONSTRUCTED TO GRADE EACH	MANHOLE, NO. 3 EACH	MANHOLE ADJUSTED TO GRADE (FOR DRAINAGE) EACH	MANHOLE ADJUSTED TO GRADE (FOR SANITARY) EACH	MANHOLE RECONSTRUCTED TO GRADE (FOR DRAINAGE) EACH	MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN 1 (FOR SANITARY) EACH	MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN 2 (FOR SANITARY) EACH		
D-1	86	77+06.51	TO																				
D-2	86	77+40.00												1									
D-3	86	77+40.00												1									
DJ-1	86	76+69.47																					
P-1	86	76+69.47	77+40.00	71																			
P-2	86	77+01.05	77+06.51		7																		
P-3	86	77+40.00	77+40.00	5																			
P-4	86	77+40.00	79+83.65	244																			
D-4	87	79+83.65																					
D-5	87	0+37.76												1									
D-6	87	82+50.00												1									
D-7	87	82+51.80												1									
DJ-2	87	82+60.38																					
P-5	87	79+83.65	0+37.76	33																			
P-6	87	82+50.00	82+60.38	12																			
P-7	87	82+51.80	82+53.75																				
SJ-1	87	80+98.82																					
D-8	88	85+34.00												1									
D-9	88	85+68.59																					
D-10	88	85+80.00												1									
D-11	88	87+00.00												1									
DJ-3	88	85+90.54																					
P-8	88	85+34.00	85+68.59	35																			
P-9	88	85+68.59	85+71.26																				
P-10	88	85+80.00	85+90.54	12																			
P-11	88	87+00.00	89+12.30	212																			
SJ-2	88	83+36.61																					
SJ-3	88	84+87.55																					
SJ-4	88	85+14.54																					
D-12	89	89+05.00												1									
D-13	89	89+04.45																					
D-14	89	91+98.50												1									
DJ-4	89	89+12.30																					
DJ-5	89	90+83.61																					
P-12	89	88+84.49	89+04.45																				
P-13	89	89+05.00	89+12.30	9																			
P-14	89	89+04.45	89+05.14																				
P-15	89	89+04.45	89+24.80																				
SJ-5	89	88+57.62																					
SJ-6	89	91+82.94																					
D-15	90	92+06.00																					
D-16	90	92+07.50												1									
D-17	90	93+75.00												1									
D-18	90	93+87.97																					
D-19	90	93+88.00												1									
SUBTOTAL				633	52	7								13	1								

MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN 1 (FOR SANITARY)

MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN 2 (FOR SANITARY)

REF NO.	SHEET NO.	STATION TO STATION	SIDE	611																	
				12" CONDUIT, TYPE B FT	12" CONDUIT, TYPE B, 706.02 FT	12" CONDUIT, TYPE B, 707.32 FT	15" CONDUIT, TYPE B FT	15" CONDUIT, TYPE B, 706.02 FT	15" CONDUIT, TYPE B, 706.08 FT	15" CONDUIT, TYPE F, 707.05 TYPE C OR 707.21 FT	CATCH BASIN, NO. 3 EACH	CATCH BASIN, NO. 3A EACH	CATCH BASIN, NO. 6 EACH	CATCH BASIN ADJUSTED TO GRADE EACH	CATCH BASIN RECONSTRUCTED TO GRADE EACH	MANHOLE, NO. 3 EACH	MANHOLE ADJUSTED TO GRADE (FOR DRAINAGE) EACH	MANHOLE ADJUSTED TO GRADE (FOR SANITARY) EACH	MANHOLE RECONSTRUCTED TO GRADE (FOR DRAINAGE) EACH	MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN 1 (FOR SANITARY) EACH	MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN 2 (FOR SANITARY) EACH
D-20	90	93+88.74	TO																		
P-15A	90	92+01.00			5											1					
P-16	90	91+98.50		43																	
P-17	90	92+06.00		17																	
P-18	90	92+06.00					182														
P-19	90	93+75.00		17																	
P-20	90	93+87.97		30																	
P-21	90	93+87.97					22														
P-22	90	93+88.74							85												
SJ-7	90	94+03.48														1					
D-21	91	97+84.00																			
D-22	91	97+97.91														1					
D-23	91	98+04.00																			
D-24	91	29+07.00								1											
DJ-6	91	99+00.72																	1		
P-23	91	97+84.00		17																	
P-24	91	97+97.91		35																	
P-24A	91	97+97.91						5													
P-25	91	29+06.81			20																
SJ-8	91	98+73.06																		1	
SJ-9	91	99+67.40																			
SJ-10	91	101+44.80																	1		
D-25	92	102+50.00																			
D-26	92	102+50.00																			
D-27	92	102+54.69																			
DJ-7	92	102+58.58																			
P-26	92	102+25.00					102+54.69		30												
P-27	92	102+43.83		15																	
P-28	92	102+50.00		6																	
P-29	92	102+50.00		35																	
P-30	92	102+50.00		14																	
P-31	92	102+54.69							30												
SJ-11	92	103+32.64																	1		
D-28	95	28+25.00																			
P-32	95	28+24.82		12																	
P-33	95	28+25.00			5																
SUBTOTAL THIS SHEET				241	30		204	35	30	85	1	5		1		3		3	1	1	1
QUANTITIES CARRIED FROM SHEET				80	633	52	7	5				13	1		3	5	2	2		4	
TOTALS CARRIED TO GENERAL SUMMARY				874	82	7	204	40	30	85	1	18	1	1	3	8	2	5	1	5	1

MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN 1 (FOR SANITARY)
 MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN 2 (FOR SANITARY)

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SHEET NO.	LOCATION	625							632															
		PULL BOX, 725.08, 24"	CONDUIT, 2", 725.05	CONDUIT, 3", 725.05	CONDUIT, 4", 725.05	CONDUIT, JACKED OR DRILLED, 4"	TRENCH	PULLBOX REMOVED	GROUND ROD	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, (BLACK)	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, (BLACK)	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	COVERING OF VEHICULAR SIGNAL HEAD	COVERING OF PEDESTRIAN SIGNAL HEAD	SIGNAL CABLE, 2 CONDUCTOR, NO. 14 AWG	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	SIGNAL CABLE, 9 CONDUCTOR, NO. 14 AWG	POWER CABLE, 2 CONDUCTOR, NO. 6 AWG	POWER CABLE, 3 CONDUCTOR, NO. 6 AWG				
		EACH	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	FT	FT	EACH	EACH				
191	WALLINGS RD & RAMP D2/RAMP D4 INTERSECTION	7	18	208	90	278	158	3	4					7	1	2	8	2	385	395	608	114	65	227
195	WALLINGS RD & MILL RD/RAMP D3 INTERSECTION	5	9	51	36	274	90	2	4					5	2	2	7	2	380	390	159	446	56	171
TOTALS CARRIED TO GENERAL SUMMARY		12	27	259	126	552	248	5	8					12	3	4	15	4	765	785	767	560	121	398

SHEET NO.	LOCATION	632											633					809				
		PEDESTRIAN PUSHBUTTON	SIGNAL SUPPORT FOUNDATION	PEDESTAL FOUNDATION	PEDESTAL, 9'	SIGNAL SUPPORT, TYPE TC-12.31 DESIGN 10 POLE, WITH MAST ARMS TC-81.22 DESIGN 13 AND DESIGN 12	SIGNAL SUPPORT, TYPE TC-12.31 DESIGN 10 POLE, WITH MAST ARMS TC-81.22 DESIGN 14 AND DESIGN 12	SIGNAL SUPPORT, TYPE TC-81.22 DESIGN 4	SIGNAL SUPPORT, TYPE TC-81.22 DESIGN 12	TEST HOLE PERFORMED	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN	POWER SERVICE	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	CABINET, TYPE 332L, AS PER PLAN	CABINET FOUNDATION	CONTROLLER WORK PAD	STOP LINE RADAR DETECTION, AS PER PLAN	ATC CONTROLLER, AS PER PLAN	CCTV IP-CAMERA SYSTEM, QUAD MULTI-VIEW FIXED WITH PTZ	ETHERNET CABLE, OUTDOOR-RATED	EMERGENCY VEHICLE PREEMPTION, AS PER PLAN	
		EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FT	EACH		
191	WALLINGS RD & RAMP D2/RAMP D4 INTERSECTION	2	2	1	1	1		1		3	1	1	1	1	1	3	1	1	256	1		
195	WALLINGS RD & MILL RD/RAMP D3 INTERSECTION	2	2	1	1		1		1	3	1	1	1	1	1	3	1			1		
	WALLINGS RD & SKYLINE DR										1											
TOTALS CARRIED TO GENERAL SUMMARY		4	4	2	2	1	1	1	1	6	3	2	2	2	2	6	2	1	256	2		

SHEET NO.	LOCATION	809																						
		PREEMPT DETECTOR CABLE, AS PER PLAN	PREEMPT PHASE SELECTOR, AS PER PLAN	PREEMPT CONFIRMATION LIGHT, AS PER PLAN	PREEMPT RECEIVING UNIT, AS PER PLAN																			
		EACH	EACH	EACH	EACH																			
191	WALLINGS RD & RAMP D2/RAMP D4 INTERSECTION	686	1	3	3																			
195	WALLINGS RD & MILL RD/RAMP D3 INTERSECTION	552	1	3	3																			
TOTALS CARRIED TO GENERAL SUMMARY		1238	2	6	6																			