| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2017 | HSIP-106(33) | 2A |

## ESTIMATED ROADWAY QUANTITIES

| | ITEM NO. | DESCRIPTION | UNIT | QUANTITY |
|---|---|---|---|---|
| | 105-01 | CONSTRUCTION STAKES, LINES AND GRADES | LS | 1 |
| | 201-01 | CLEARING AND GRUBBING | LS | 1 |
| (3) (5) | 203-01 | ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED) | C.Y. | 3148 |
| (5) (11) | 203-02.02 | BORROW EXCAVATION (GRADED SOLID ROCK) | C.Y. | 579 |
| (5) | 203-03 | BORROW EXCAVATION (UNCLASSIFIED) | C.Y. | 3558 |
| (5) | 203-04 | PLACING AND SPREADING TOPSOIL | C.Y. | 1081 |
| (5) | 203-05 | UNDERCUTTING | C.Y. | 579 |
| | 203-06 | WATER | M.G. | 13 |
| (1) (4) | 209-02.07 | 18" TEMPORARY SLOPE DRAIN | L.F. | 21 |
| (1) (4) | 209-05 | SEDIMENT REMOVAL | C.Y. | 75 |
| (1) (4) | 209-08.02 | TEMPORARY SILT FENCE (WITH BACKING) | L.F. | 2370 |
| (1) (4) | 209-08.03 | TEMPORARY SILT FENCE (WITHOUT BACKING) | L.F. | 1362 |
| (1) (4) | 209-08.07 | ROCK CHECK DAM PER | EACH | 5 |
| (1) (4) | 209-08.08 | ENHANCED ROCK CHECK DAM | EACH | 10 |
| (1) (4) (13) | 209-08.09 | FILTER SOCK CHECK DAM | EACH | 15 |
| (1) (4) | 209-09.03 | SEDIMENT FILTER BAG (15' X 15') | EACH | 2 |
| (1) (4) | 209-65.04 | TEMPORARY IN STREAM DIVERSION | L.F. | 84 |
| (16) | 303-01 | MINERAL AGGREGATE, TYPE A BASE, GRADING D | TON | 5445 |
| | 303-10.01 | MINERAL AGGREGATE (SIZE 57) | TON | 24 |
| | 307-01.08 | ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2 | TON | 29 |
| (14) | 307-02.01 | ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A | TON | 649 |
| (15) | 307-02.08 | ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2 | TON | 406 |
| (17) | 402-01 | BITUMINOUS MATERIAL FOR PRIME COAT (PC) | TON | 8 |
| (18) | 402-02 | AGGREGATE FOR COVER MATERIAL (PC) | TON | 29 |
| (19) | 403-01 | BITUMINOUS MATERIAL FOR TACK COAT (TC) | TON | 5 |
| (12) | 407-20.05 | SAW CUTTING ASPHALT PAVEMENT | L.F. | 4965 |
| | 411-01.07 | ACS MIX (PG64-22) GRADING E SHOULDER | TON | 101 |
| | 411-01.10 | ACS MIX (PG64-22) GRADING D | TON | 20 |
| | 411-02.10 | ACS MIX (PG70-22) GRADING D | TON | 526 |
| | 411-12.04 | SCORING FOR RUMBLE STRIPE (NON-CONTINUOUS)(4IN WIDTH) | L.M. | 1 |
| | 415-01.02 | COLD PLANING BITUMINOUS PAVEMENT | SY | 5218 |
| | 607-05.02 | 24" CONCRETE PIPE CULVERT (CLASS III) | L.F. | 84 |
| | 607-39.01 | 15" PIPE CULVERT (SIDE DRAIN) | L.F. | 44 |
| | 607-39.02 | 18" PIPE CULVERT (SIDE DRAIN) | L.F. | 108 |
| | 607-39.03 | 24" PIPE CULVERT (SIDE DRAIN) | L.F. | 78 |
| | 611-07.01 | CLASS A CONCRETE (PIPE ENDWALLS) | C.Y. | 5 |
| | 611-07.02 | STEEL BAR REINFORCEMENT (PIPE ENDWALLS) | LB. | 210 |
| | 611-07.58 | 24IN ENDWALL (CROSS DRAIN) 4:1 | EACH | 3 |
| | 621-03.02 | 18" TEMPORARY DRAINAGE PIPE | L.F. | 30 |
| | 701-02 | CONCRETE DRIVEWAY | S.F. | 1024 |

(1) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATION FOR MAINTENANCE REPLACEMENT.
(2) INCLUDES 23 TONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.
(3) INCLUDES 52 C.Y. FOR EPSC.
(4) ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
(5) SEE GRADING SPECIAL NOTES ON SHEET 2D.
(6) CONTRACTOR SHALL USE THE RIBBON METHOD FOR APPLICATION.
(7) THE CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THERMOPLASTIC.
(8) INCLUDES 10 M.G. FOR EROSION PREVENTION AND SEDIMENT CONTROL.

## ESTIMATED ROADWAY QUANTITIES

| | ITEM NO. | DESCRIPTION | UNIT | QUANTITY |
|---|---|---|---|---|
| | 705-01.01 | GUARDRAIL AT BRIDGE ENDS | L.F. | 27 |
| | 705-01.04 | METAL BEAM GUARD FENCE | L.F. | 100 |
| | 705-06.01 | W BEAM GR (TYPE 2) MASH TL3 | L.F. | 2125 |
| | 705-06.10 | GR TERMINALTRAILING END (TYPE 13) MASH TL3 | EACH | 4 |
| | 705-06.30 | GR TERMINAL (TYPE 21) MASH TL2 | EACH | 4 |
| | 705-06.11 | GR TERMINAL (IN-INLINE) MASH TL3 | EACH | 6 |
| | 705-04.21 | GUARDRAIL DELINEATION ENHANCEMENT | LF | 2125 |
| (10) | 705-08.51 | PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3 | EACH | 5 |
| | 707-08.11 | HIGH-VISIBILITY CONSTRUCTION FENCE | L.F. | 280 |
| | 708-02.01 | MARKERS (CONCRETE R.O.W. POSTS) | EACH | 22 |
| (1) (4) | 709-05.05 | MACHINED RIP-RAP (CLASS A-3) | TON | 150 |
| (2) | 709-05.06 | MACHINED RIP-RAP (CLASS A-1) | TON | 181 |
| | 709-05.08 | MACHINED RIP-RAP (CLASS B) | TON | 21 |
| | 712-01 | TRAFFIC CONTROL | LS | 1 |
| | 712-02.02 | INTERCONNECTED PORTABLE BARRIER RAIL | L.F. | 1770 |
| | 712-04.01 | FLEXIBLE DRUMS (CHANNELIZING) | EACH | 167 |
| | 712-06 | SIGNS (CONSTRUCTION) | S.F. | 293 |
| | 713-02.04 | DELINEATOR (MILE MARKER) & STEEL POST | EACH | 1 |
| | 713-02.21 | SIGN POST DELINEATION ENHANCEMENT | LF | 15 |
| | 713-02.26 | CONCRETE BARRIER/PARAPET DELINEATOR | EACH | 177 |
| | 713-11.01 | "U" SECTION STEEL POSTS | LB. | 382 |
| | 713-11.02 | PERFORATED/KNOCKOUT SQUARE TUBE POST | LB. | 161 |
| | 713-11.21 | P POST SLIP BASE | EACH | 5 |
| | 713-13.02 | FLAT SHEET ALUMINUM SIGNS (0.080" THICK) | S.F. | 47 |
| | 713-13.03 | FLAT SHEET ALUMINUM SIGNS (0.100" THICK) | S.F. | 89 |
| | 713-15 | REMOVAL OF SIGNS, POSTS AND FOOTINGS | LS | 1 |
| | 713-16.01 | CHANGEABLE MESSAGE SIGN UNIT | EACH | 3 |
| | 713-16.07 | END OF ROADWAY SIGN AND SUPPORT | EACH | 2 |
| | 716-01.05 | TEMPORARY RAISED PAVEMENT MARKER | EACH | 120 |
| | 716-01.22 | Snwplwble Pvmt Mrkrs (Mono-Dir)(1 Color) | EACH | 24 |
| | 716-01.23 | Snwplwble Pvmt Mrkrs (Bi-Dir)(2 Color) | EACH | 128 |
| | 716-02.04 | PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING) | S.Y. | 960 |
| | 716-02.05 | PLASTIC PAVEMENT MARKING (STOP LINE) | L.F. | 173 |
| | 716-02.06 | PLASTIC PAVEMENT MARKING (TURN LANE ARROW) | EACH | 7 |
| | 716-03.01 | PLASTIC WORD PAVEMENT MARKING (ONLY) | EACH | 2 |
| | 716-04.05 | PLASTIC PAVEMENT MARKING (STRAIGHT ARROW) | EACH | 2 |
| | 716-05.01 | PAINTED PAVEMENT MARKING (4" LINE) | L.M. | 3 |
| (6) (7) | 716-12.01 | ENHANCED FLATLINE THERMO PVMT MRKNG (4IN LINE) | L.M. | 2 |
| | 717-01 | MOBILIZATION | LS | 1 |
| | 730-26.08 | FLASHING WARNING BEACON (AMBER) | EACH | 1 |

(9) ITEM INCLUDES LITTER AND TRASH REMOVAL. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY BUT WILL BE INCLUDED IN THE COST OF ITEM NO. 806-02.03, PROJECT MOWING, SITE.
(10) THIS ITEM SHALL BE A PORTABLE ENERGY ABSORBING TERMINAL MEETING THE REQUIREMENTS OF NCHRP 350 FOR TEST LEVEL 3. EXAMPLES WOULD BE A QUAD-GUARD, A REACT 350 OR A TRACC. THE PAY ITEM WILL INCLUDE FURNISHING AND INSTALLING ALL COMPONENTS AS SHOWN ON THE MANUFACTURER'S DRAWING.
(11) FOR USE IN STABILIZING UNDERCUT AREAS.
(12) INCLUDES 1500 LF FOR TRAFFIC CONTROL
(13) AS DIRECTED BY ENGINEER
(14) INCLUDES 115 TON FOR TRAFFIC CONTROL
(15) INCLUDES 75 TON FOR TRAFFIC CONTROL
(16) INCLUDES 173 TON FOR TRAFFIC CONTROL
(17) INCLUDES 1 TON FOR TRAFFIC CONTROL
(18) INCLUDES 4 TON FOR TRAFFIC CONTROL
(19) INCLUDES 0.2 TON FOR TRAFFIC CONTROL

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DEPARTMENT OF TRANSPORTATION

# ESTIMATED ROADWAY QUANTITIES

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