TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | HSIP-107(2) | 2 |

## ESTIMATED ROADWAY QUANTITIES

| | ITEM NO. | DESCRIPTION | UNIT | QUANTITY |
|---|---|---|---|---|
| | 105-01 | CONSTRUCTION STAKES, LINES AND GRADES | LS | 1 |
| (1) | 202-01 | REMOVAL OF STRUCTURES AND OBSTRUCTIONS | LS | 1 |
| (2) | 209-08.03 | TEMPORARY SILT FENCE (WITHOUT BACKING) | L.F. | 900 |
| | 705-02.02 | SINGLE GUARDRAIL (TYPE 2) | L.F. | 550 |
| | 705-04.04 | GUARDRAIL TERMINAL (TYPE 21) | EACH | 2 |
| | 705-04.07 | TAN ENERGY ABSORBING TERM (NCHRP 350, TL3) | EACH | 2 |
| | 705-04.21 | GUARDRAIL DELINEATION ENHANCEMENT | L.F. | 1600 |
| | 712-01 | TRAFFIC CONTROL | LS | 1 |
| | 712-04.01 | FLEXIBLE DRUMS (CHANNELIZING) | EACH | 60 |
| | 712-05.01 | WARNING LIGHTS (TYPE A) | EACH | 10 |
| | 712-05.03 | WARNING LIGHTS (TYPE C) | EACH | 50 |
| | 712-06 | SIGNS (CONSTRUCTION) | S.F. | 384 |
| | 712-08.03 | ARROW BOARD (TYPE C) | EACH | 2 |
| | 713-02.21 | SIGN POST DELINEATION ENHANCEMENT | L.F. | 40 |
| (3) | 713-15 | REMOVAL OF SIGNS, POSTS AND FOOTINGS | LS | 1 |
| (4) | 713-16.20 | SIGNS (W2-1) | EACH | 2 |
| | 716-01.21 | Snwplwble Pvmt Mrkrs (Bi-Dir)(1 Color) | EACH | 40 |
| | 716-01.22 | Snwplwble Pvmt Mrkrs (Mono-Dir)(1 Color) | EACH | 40 |
| (5) | 716-02.05 | PLASTIC PAVEMENT MARKING (STOP LINE) | L.F. | 40 |
| | 716-12.01 | ENHANCED FLATLINE THERMO PVMT MRKNG (4IN LINE) | L.M. | 2 |
| | 717-01 | MOBILIZATION | LS | 1 |
| | 730-02.01 | SIGNAL HEAD ASSEMBLY (110) | EACH | 8 |
| (6) | 730-02.30 | SIGNAL HEAD ASSEMBLY (110 BRIDGE MOUNTED) | EACH | 2 |
| | 730-03.21 | INSTALL PULL BOX (TYPE B) | EACH | 1 |
| (7) | 730-05.01 | ELECTRICAL SERVICE CONNECTION | EACH | 1 |
| | 730-08.03 | SIGNAL CABLE - 7 CONDUCTOR | L.F. | 950 |
| | 730-09.01 | SPAN WIRE ASSEMBLY(16,000 LBS.MIN.BRK STRENGTH) | L.F. | 450 |
| | 730-12.02 | CONDUIT 2" DIAMETER (PVC) | L.F. | 100 |
| (8) | 730-12.08 | CONDUIT 2" DIAMETER (RGS) | L.F. | 100 |
| | 730-15.07 | CABINET (FLASHING BEACON) | EACH | 1 |
| | 730-16.03 | CONTROLLER (FLASHING BEACON) | EACH | 1 |
| (9) | 730-23.01 | STEEL STRAIN POLE (SIGNAL SUPPORT) | EACH | 4 |
| | 801-01 | SEEDING (WITH MULCH) | UNIT | 1 |
| | 801-03 | WATER (SEEDING & SODDING) | M.G. | 0.1 |
| | | | | |

FOOTNOTES:

(1) INCLUDES REMOVAL OF EXISTING GUARDRAIL SECTIONS AND END TERMINALS AS SHOW ON SHEET 4A.

(2) ITEM SHALL INCLUDE SEDIMENT REMOVAL.

(3) INCLUDES REMOVAL OF TWO EXISTING W2-1 SIGNS, SUPPORTS AND FOOTINGS AS SHOWN ON SHEET 4A.

(4) INCLUDES SIGNS, SUPPORTS (P8 POSTS), AND INCIDENTALS NECESSARY FOR COMPLETE INSTALLATION.

(5) 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.

(6) INCLUDES ALL ITEMS NECESSARY TO ATTACH SIGNAL HEADS TO PEDESTRIAN BRIDGE AS SHOWN ON SHEETS 6 AND 7.

(7) INCLUDES CONDUIT, CABLE, AND OTHER ITEMS NECESSARY FOR CONNECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE LOCAL UTILITY TO OBTAIN THE ESTIMATE FOR ANY CHARGES BY THE UTILITY FOR PROVIDING ELECTRICAL SERVICE TO THE SIGNAL CONTROLLER. THESE CHARGES SHALL BE INCLUDED IN THE PRICE BID FOR ITEM NO. 730-05.01 FOR PAYMENT BY THE CONTRACTOR.

(8) INCLUDES ALL ITEMS NECESSARY TO ATTACH CONDUIT TO PEDESTRIAN BRIDGE.

(9) INCLUDES FOUNDATION.

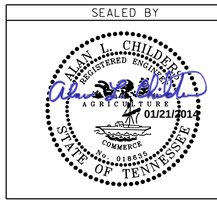
## PROPOSED GUARDRAIL

| SHEET NO. | LOCATION | SIDE | | STATION | | GUARDRAIL | TERMINAL ANCHORS | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | | LT | RT | FROM | TO | SINGLE TYPE 2 705-02.02 (L.F.) | TYPE 21 705-04.04 (EACH) | TYPE 38 705-04.07 (EACH) | |
| 4A | EDENS ROAD | X | | 249+80 +/- | 249+00 +/- | 75 | 1 | | |
| 4A | EDENS ROAD / S.R. 107 | | X | 251+30 +/- | 152+45 +/- | 275 | | 1 | |
| 4A | EDENS ROAD / S.R. 107 | X | | 249+00 +/- | 152+90 +/- | 200 | 1 | 1 | |
| | | | | | | | | | |
| | | | | | | | | | |
| TOTALS | | | | | | 550 | 2 | 2 | |

## TRAFFIC CONTROL QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT | QUANTITY | ITEM NO. 712-06 (S.F.) | SIZE | M.U.T.C.D. NO. | REMARKS |
|---|---|---|---|---|---|---|---|
| 712-01 | TRAFFIC CONTROL | L.S. | 1 | | | | |
| 712-04.01 | FLEXIBLE DRUMS (CHANNELIZING) | EACH | 60 | | | | |
| 712-05.01 | WARNING LIGHTS (TYPE A) | EACH | 10 | | | | |
| 712-05.03 | WARNING LIGHTS (TYPE C) | EACH | 50 | | | | |
| 712-06 | SIGNS (END ROAD WORK) | S.F. | 4 | 32 | 48" x 24" | G20-2 | |
| 712-06 | SIGNS (LEFT LANE ENDS) | S.F. | 2 | 32 | 48" x 48" | W4-2L | TO BE USED AS NEEDED |
| 712-06 | SIGNS (RIGHT LANE ENDS) | S.F. | 2 | 32 | 48" x 48" | W4-2R | TO BE USED AS NEEDED |
| 712-06 | SIGNS (ROAD WORK 1/2 MILE) | S.F. | 1 | 16 | 48" x 48" | W20-1 | |
| 712-06 | SIGNS (ROAD WORK 1500 FEET) | S.F. | 1 | 16 | 48" x 48" | W20-1 | |
| 712-06 | SIGNS (ROAD WORK 1000 FEET) | S.F. | 2 | 32 | 48" x 48" | W20-1 | |
| 712-06 | SIGNS (ROAD WORK 500 FEET) | S.F. | 2 | 32 | 48" x 48" | W20-1 | |
| 712-06 | SIGNS (ROAD WORK AHEAD) | S.F. | 2 | 32 | 48" x 48" | W20-1 | |
| 712-06 | SIGNS (ONE LANE ROAD AHEAD) | S.F. | 2 | 32 | 48" x 48" | W20-4 | TO BE USED AS NEEDED |
| 712-06 | SIGNS (LEFT LANE CLOSED 1000 FT. | S.F. | 2 | 32 | 48" x 48" | W20-5L | TO BE USED AS NEEDED |
| 712-06 | SIGNS (RIGHT LANE CLOSED 1000 F | S.F. | 2 | 32 | 48" x 48" | W20-5R | TO BE USED AS NEEDED |
| 712-06 | SIGNS (SHOULDER DROP-OFF) | S.F. | 2 | 32 | 48" x 48" | W8-9A | TO BE USED AS NEEDED |
| 712-06 | SIGNS (FLAGGER (SYMBOL)) | S.F. | 2 | 32 | 48" x 48" | W20-7A | TO BE USED AS NEEDED |
| 712-08.03 | ARROW BOARD (TYPE C) | EACH | 2 | | | | |
| TOTAL | | | | 384 | | | |

SEALED BY




STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES AND TABULATED QUANTITIES

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