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

ESTIMATED ROADWAY QUANTITIES 1 2 3 4 5

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
28	201-01	CLEARING AND GRUBBING	LS	1
21	203-01	ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	14,415
	203-02.01	BORROW EXCAVATION (GRADED SOLID ROCK)	TON	29,814
33	203-50	CONSTRUCTION OF HAUL ROAD	LS	1
2	209-05	SEDIMENT REMOVAL	C.Y.	1,204
25 2	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	9,104
25 2	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	8,785
25	209-08.07	ROCK CHECK DAM	EACH	27
25	209-08.08	ENHANCED ROCK CHECK DAM	EACH	2
2	209-09.03	SEDIMENT FILTER BAG (15'X15')	EACH	24
	209-10.01	TEMPORARY DEWATERING STRUCTURE	C.Y.	596
25 2	209-40.30	CATCH BASIN PROTECTION (TYPE A)	EACH	8
25 2	209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	4
30	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	21,508
26	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	122
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	660
	307-03.01	ASPHALT CONCRETE MIX (PG76-22) (BPMB-HM) GRADING A	TON	9,732
	307-03.08	ASPHALT CONCRETE MIX (PG76-22) (BPMB-HM) GRADING B-M2	TON	3,169
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	32
29	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	21
	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	420
	411-01.10	ACS MIX (PG64-22) GRADING D	TON	19
10	411-03.10	ACS MIX (PG76-22) GRADING D	TON	2,280
	411-12.01	SCORING SHOULDERS (CONTINUOUS) (16" WIDTH)	L.M.	2
9 3	415-01.01	COLD PLANING BITUMINOUS PAVEMENT	TON	1,701
14	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	1,494
	607-03.05	18" CONCRETE PIPE CULVERT (CLASS IV) JACKED IN PLACE	L.F.	102
14 13	610-07.03	18-INCH PIPE DRAIN (BRIDGE DRAIN)	L.F.	90
	611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	3
	611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	250
19	611-31.02	CATCH BASINS, TYPE 31, > 4'-8' DEPTH	EACH	1
19	611-38.02	CATCH BASINS, TYPE 38, > 4'-8' DEPTH	EACH	7
22	621-03.02	18" TEMPORARY DRAINAGE PIPE	L.F.	72
	703-02	CEMENT CONCRETE DITCH PAVING (REINFORCED)	C.Y.	25
	705-01.01	GUARDRAIL AT BRIDGE ENDS	L.F.	134
	705-02.02	SINGLE GUARDRAIL (TYPE 2)	L.F.	25
	705-03.01	MEDIAN DIVIDER GUARDRAIL, WITH RUB-RAIL (TYPE 2)	L.F.	1,300
	705-03.04	MEDIAN DIVIDER GUARDRAIL AT CONCRETE BARRIER	L.F.	54
18	705-04.07	TAN ENERGY ABSORBING TERM (NCHRP 350, TL3)	EACH	2
4	705-08.51	PORTABLE IMPACT ATTENUATOR (NCHRP 350, TL-3)	EACH	4
	705-80.01	LONGITUDINAL CABLE BARRIER	L.F.	600
	705-80.02	LONGITUDINAL CABLE BARRIER (END TERMINAL) STANDARD	EACH	1
	706-01	GUARDRAIL REMOVED	L.F.	800
	706-02.01	GUARDRAIL REMOVED AND RESET	L.F.	44
13	709-01.01	RUBBLE STONE RIP-RAP	C.Y.	6
27	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	39
17	711-05.71	51 IN SINGLE SLOPE MEDIAN BARRIER WALL	L.F.	420
5	712-01	TRAFFIC CONTROL	LS	1
6	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	3,855
15	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	400
	712-04.50	PORTABLE BARRIER RAIL DELINEATOR	EACH	196
	712-05.01	WARNING LIGHTS (TYPE A)	EACH	6
	712-05.03	WARNING LIGHTS (TYPE C)	EACH	190
7	712-06	SIGNS (CONSTRUCTION)	S.F.	1,460
16	712-06.16	SIGNS (CONSTRUCTION) (REDUCED SPEED WARNING)	EACH	2
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	48
	712-08.03	ARROW BOARD (TYPE C)	EACH	4
8	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	8
20	716-01.06	TEMPORARY RAISED PAVEMENT MARKER, WHITE	EACH	459

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	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
20	716-01.07	TEMPORARY RAISED PAVEMENT MARKER, YELLOW	EACH	296
24	716-01.22	SNWPLWABLE PVMT MRKRS (MONO-DIR) (1 COLOR)	EACH	830
	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	0.1
	716-05.50	PAINTED PAVEMENT MARKING (8" LINE)	L.F.	36,656
	716-08.02	REMOVAL OF PVMT MKG (8" BARRIER LINE)	L.F.	27,610
	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKING (6" LINE)	L.M.	3
	716-13.06	SPRAY THERMO PVMT MRKNG (40 MIL) (4" LINE)	L.M.	0.1
	717-01	MOBILIZATION	LS	1
23	740-10.03	GEOTEXTILE (TYPE III) (EROSION CONTROL)	S.Y.	446
25 2	740-11.02	TEMPORARY SEDIMENT TUBE (12 INCH) (STRAW WATTLES)	L.F.	1,200
25 2	740-11.04	TEMPORARY SEDIMENT TUBE (20 INCH) (STRAW WATTLES)	L.F.	266
31 11	801-01	SEEDING (WITH MULCH)	UNIT	207
	801-02.08	TEMPORARY SEEDING (WITHOUT MULCH)	UNIT	100
12	801-03	WATER (SEEDING AND SODDING)	M.G.	64
31	803-01	SODDING (NEW SOD)	S.Y.	748
2	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	400
32	806-02.03	PROJECT MOWING	CYCL	6

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	11003-3134-94	2A
CONST.	2014	BR-1-40-3(155)	2A

(1) 02-05-13 JRG REVISED QUANTITIES AND FOOTNOTES

(2) 04-26-13 JRG REVISED QUANTITIES FOR ITEM NOS. 203-02.01, 303-01, 307-01.08, 307-03.08, 411-01.07, 411-03.10, 415-01.01, 611-38.02, 705-08.51, 705-80.01, 740-11.02, ADDED NOTE 9 AND REMOVED 611-38.01, ADDED DESCRIPTIONS TO 740-11.02 AND 740-11.04

(3) 11-06-13 JRG REVISED QUANITITES FOR ITEM NOS. 709-05.08 AND 740-10.03, REVISED NOTE 33

(4) 11-15-13 JRG REVISED QUANITITES FOR ITEM NOS. 203-01, AND 740-10.03, REVISED NOTES 21, 23, AND 33 ADDED ITEM NO. 203-50, REMOVED ITEM NOS. 709-05.05 AND 709-05.08

(5) 03-19-14 JRG CHANGED ITEM NO. 711-05.70 TO ITEM NO. 711-05.71 AND REVISED QUANTITIES FOR ITEM NOS. 203-01 AND 203-02.01

FOOTNOTES 1 2 3 4

(1) ALL DIMENSIONAL DETAILS SHOWN ON PLANS, INCLUDING ELEVATIONS, SHALL BE CHECKED BY THE CONTRACTOR TO ASSURE ACCURACY OF THE LAYOUT PRIOR TO CONSTRUCTION. ALL BRIDGE SUBSTRUCTURES SHALL BE CHECKED AS TO LOCATION, DIMENSIONAL LAYOUTS AND ELEVATIONS, BY MEANS OF TWO INDEPENDENT LAYOUT METHODS. ANY ERRORS AND APPARENT DISCREPANCIES FOUND IN PREVIOUS SURVEYS, OR IN EITHER THE SPECIFICATIONS OR SPECIAL PROVISIONS, SHALL BE CALLED TO THE ENGINEER'S ATTENTION BY THE CONTRACTOR IMMEDIATELY AND PRIOR TO PROCEEDING WITH WORK.

(2) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT. ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.

(3) DEPTH VARIES FROM 0" TO 1¼" IN ALL AREAS NECESSARY FOR CONSTRUCTION OF ASPHALT TRANSITIONS AND OVERLAY OF EXISTING PAVEMENT.

(4) 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 LISTED ON THE MANUFACTURERS BILL OF MATERIALS. INCLUDES COST OF RELOCATION AND INSTALLATION FOR PHASE IV CONSTRUCTION.

(5) INCLUDES COST FOR REMOVAL OF EXISTING OR CONFLICTING PAVEMENT MARKING.

(6) INCLUDES THE COST OF RELOCATION AND INSTALLATION TO PHASE IV CONSTRUCTION ON INTERSTATE 40.

(7) BASED ON SECTION 712.10 OF STANDARD SPECIFICATIONS, 542 S.F. FROM DETOUR - ANDERSON FARM ROAD.

(8) COORDINATE WITH T.D.O.T. CONSTRUCTION DIVISION FOR LOCATION AND MESSAGE FOR CHANGEABLE MESSAGE SIGN.

(9) ITEM INCLUDES THE COST OF SAW CUTTING ASPHALT PAVEMENT.

(10) INCLUDES 1,175 TONS FOR INTERSTATE 40 INSIDE SHOULDER AND MEDIAN UPGRADES AND 1,105 TONS FOR 1¼" OVERLAY ON EXISTING INTERSTATE 40 ROADWAY.

(11) SEEDING (WITH MULCH) SHALL BE PLACED ON ALL FILL AREAS AND ALL AREAS OF DISTURBED GROUND.

(12) INCLUDES 8 THOUSAND GALLONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.

(13) STANDARD DRAWING STD-1-7 IS TO BE USED FOR BURIAL OF THE OUTLET PIPE AND FOR END TREATMENT DETAILS.

(14) COST OF CLASS B BEDDING MATERIAL TO BE INCLUDED IN UNIT PRICE.

(15) INCLUDES RELOCATION AND INSTALLATION FOR EACH PHASE OF THE CONSTRUCTION SEQUENCE ON INTERSTATE 40 AND THE ANDERSON FARM ROAD DETOUR.

(16) ITEM TO BE USED ONLY WHEN THE CONTRACTOR ESTABLISHES A REDUCED SPEED LIMIT WITHIN THE PROJECT CONSTRUCTION WORK ZONE LIMITS. ITEM INCLUDES SIGN FACE, SUPPORTS, AND TWO TYPE "B" FLASHERS PER THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TURNING ON THE TYPE "B" FLASHERS WHEN WORKERS ARE IN THE CONSTRUCTION WORK ZONE AND TURNING THEM OFF WHEN WORKERS ARE NO LONGER IN THE CONSTRUCTION WORK ZONE.

(17) ITEM INCLUDES COST OF MEDIAN DIVIDER GUARDRAIL ATTACHMENT.

(18) THIS ITEM SHALL BE AN APPROVED NCHRP 350 NON-GATING CRASH CUSHION SUCH AS A QUAD-GUARD, REACT 350 OR EQUIVALENT. MANUFACTURER'S SHOP DRAWINGS SHALL BE REQUIRED BEFORE ANY TANGENTIAL END TERMINAL INSTALLATIONS CAN BEGIN. THE CONTRACTOR SHALL HAVE ONE COMPLETE SET OF SHOP DRAWINGS ON SITE DURING INSTALLATION OR REPAIR OF ANY TANGENTIAL GUARDRAIL TERMINAL ANCHOR. THE CONTRACTOR SHALL ALSO PROVIDE THE CONSTRUCTION OR MAINTENANCE SUPERVISOR WITH ONE COMPLETE SET OF SHOP DRAWINGS.

(19) ITEM INCLUDES THE COST OF ALL EXCAVATION AND BEDDING MATERIAL NECESSARY FOR INSTALLATION.

(20) THE COST OF REMOVING RAISED PAVEMENT MARKERS BEFORE PLACEMENT OF THE FINAL PAVEMENT SURFACE SHALL BE INCLUDED IN THE UNIT PRICE BID THIS ITEM.

(21) ITEM INCLUDES REMOVAL AND STOCKPILE STORAGE OF TOPSOIL FROM MEDIAN. EXCAVATION REQUIRED FOR ITEM NO. 209-10.01, TEMPORARY DEWATERING STRUCTURE. EXCAVATION REQUIRED FOR THE SECTION RELOCATION OF ANDERSON FARM ROAD, AND EXCAVATION REQUIRED AT EXISTING ROADWAY TO INSTALL PAVEMENT AT BRIDGE ENDS.

(22) NOTE INTENTIONALLY LEFT BLANK.

(23) INCLUDES 360 S.Y. FOR 4 SEDIMENT FILTER BAG LOCATIONS AND 86 S.Y. FOR CULVERT PROTECTION.

(24) ITEM TO BE USED ON PERMANENT PAVEMENT SURFACE WITH PERMANENT PAVEMENT MARKINGS, BETWEEN TRAFFIC PHASES AND WITH TEMPORARY LANE MARKINGS DURING THE MONTHS OF DECEMBER THRU APRIL.

(25) SEDIMENT SHALL BE REMOVED FROM BEHIND THE SILT FENCE, SILT FENCE WITH WIRE BACKING, ROCK CHECK DAMS, CATCH BASIN PROTECTION OR SEDIMENT TUBE WHEN IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE STRUCTURE AND PAID FOR UNDER ITEM NO. 209-05, SEDIMENT REMOVAL, C.Y.

(26) INCLUDES 30.5 TONS FOR EACH INSTALLATION LOCATION OF SEDIMENT FILTER BAGS.

(27) ITEM INCLUDES 6 TONS FOR PIPE OUTLET PROTECTION AND 33 TONS FOR CULVERT PROTECTION.

(28) ITEM TO INCLUDE CLEARING THE INTERSTATE 40 ROADWAY DITCHLINES ON THE EASTBOUND AND WESTBOUND LANES BETWEEN STA. 464+50 AND BRIDGE ABUTMENT NO. 1.

(29) INCLUDES 12 TONS FOR INTERSTATE 40 OUTSIDE AND INSIDE SHOULDER AND MEDIAN UPGRADES, 8 TONS ON EXISTING INTERSTATE 40 COLD PLANED SURFACES AND 1 TON FOR ANDERSON FARM ROAD SECTION RELOCATION.

(30) INCLUDES 20,361 TONS FOR INTERSTATE 40 OUTSIDE AND INSIDE SHOULDER AND MEDIAN UPGRADES, 1,007 TONS FOR ANDERSON FARM ROAD AND 140 TONS FOR BRIDGE ENDS.

(31) ITEM INCLUDES THE COST OF PLACING TOPSOIL TAKEN FROM STOCKPILE.

(32) 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, CYCL.

(33) THIS WORK SHALL INCLUDE CONSTRUCTION, MAINTENANCE AND REMOVAL OF THE HAUL ROAD. THE COST OF THE 5 48" PIPES OR HYDRAULIC EQUIVALENT SHALL BE INCLUDED IN THIS ITEM.

JAMES R. GILLESPIE JR. REGISTERED ENGINEER AGRICULTURE NO. 102590 STATE OF TENNESSEE
04/04/2014

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANITITIES