TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	19180-3212-04	2

REV. 01-22-14: ADDED PAY ITEM 717-01.

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
(1)	201-01	CLEARING AND GRUBBING	LS	1
	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	10200
	712-01	TRAFFIC CONTROL	LS	1
(2)	712-04.02	FLEXIBLE DRUMS (CHANNELIZATION)	EACH	2
(2)	712-05.01	WARNING LIGHTS (TYPE A)	EACH	2
	712-06	SIGNS (CONSTRUCTION)	S.F.	361
	712-08.03	ARROW BOARD (TYPE C)	EACH	1
(3)	714-03	JACKED OR BORED CONDUIT	L.F.	625
	714-03.01	DIRECT BURIAL CONDUIT (2" PVC, SCHEDULE 40)	L.F.	11135
(4)	714-04.02	CONDUIT (STRUCTURES - 2" RGS)	L.F.	515
	714-05.04	PULL BOXES (TYPE C)	EACH	20
(4)	714-05.05	PULL BOXES (6" x 6")	EACH	8
	714-06.06	CABLE (1/C # 4 AWG)	L.F.	42515
	714-06.08	CABLE (# 6 COPPER SOFT DRAWN BARE) (GROUND)	L.F.	11315
(5)	714-06.09	CABLE (# 6 SOLID COPPER SOFT DRAWN) (GROUND)	L.F.	1105
(6)	714-08.09	LIGHT STANDARDS (45')	EACH	1
(7)	714-08.10	LIGHT STANDARDS (45')	EACH	18
(8)	714-08.11	LIGHT STANDARDS (130' HIGH MAST)	EACH	7
(9)	714-08.20	FOUNDATION (ONLY) FOR LIGHT STANDARD	EACH	19
	714-08.46	FOUNDATION (ONLY) FOR HIGH MAST LIGHT STANDARD	EACH	7
(10)	714-09.03	LUMINAIRES (250 WATT)	EACH	1
(11)	714-09.06	LUMINAIRES (1000 WATT - HIGH MAST)	EACH	38
(12)	714-09.09	LUMINAIRES (250 WATT OFFSET)	EACH	18
(13)	714-09.10	LUMINAIRES (150 WATT UNDERPASS)	EACH	4
(14)	714-12.01	CONTROL CENTER (NO. 1)	LS	1
(14)	714-12.02	CONTROL CENTER (NO. 2)	LS	1
(15)	714-25	ELECTRICAL CONNECTION	EACH	2
	717-01	MOBILIZATION	LS	1
(16)	801-01	SEEDING (WITH MULCH)	UNIT	7
	801-03	WATER (SEEDING & SODDING)	M.G.	1

SUMMARY OF QUANTITIES
ITEM NO. 712-06

M.U.T.C.D. NO.	DESCRIPTION	SIZE (INCHES)	QTY.	AREA (S.F.)
G20-2A	END ROAD WORK	48 X 24	4	32
W7-3A	NEXT X MILES	36 X 18	2	9
W20-1	ROAD WORK 1000 FT	48 X 48	4	64
W20-1	ROAD WORK 1/2 MILE	48 X 48	4	64
W20-1	ROAD WORK 1 MILE	48 X 48	4	64
W21-5L	LEFT SHOULDER CLOSED	48 X 48	2	32
W21-5L	LEFT SHOULDER CLOSED 1500 FT	48 X 48	2	32
W21-5R	RIGHT SHOULDER CLOSED	48 X 48	2	32
W21-5R	RIGHT SHOULDER CLOSED 1500 FT	48 X 48	2	32
			TOTAL QUANTITY	**361**

ITEM 712-06, SIGNS (CONSTRUCTION), INCLUDES SIGNS SHOWN WHICH ARE CONSIDERED A MINIMUM. ADDITIONAL SIGNS MAY BE REQUIRED BY THE ENGINEER AND WILL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM 712-06.

SIGNS SHALL BE LOCATED BY THE CONTRACTOR WITH THE APPROVAL OF THE ENGINNER.

CONSTRUCTION SIGNING AND TRAFFIC CONTROL SHALL CONFORM TO PART VI OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND SECTION 712 OF THE TENNESSEE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

CONTRACTOR IS NOT RELIEVED OF ANY RESPONSIBILITY TO PROVIDE ADEQUATE AND SAFE TRAFFIC CONTROL MEASURES BY THE ABOVE.

PAY ITEM FOOTNOTES:

(1) INCLUDED FOR THE REMOVAL AND REINSTALLATION OF GUARDRAIL. INCLUDES THE COST OF REMOVAL OF BUSHES NEAR GUARDRAIL. INCLUDES THE COST OF TREE REMOVAL. ANY TREE REMOVAL SHALL BE APPROVED BY THE ENGINEER. ALSO INCLUDES THE COST OF ANY NECESSARY GRADING.

(2) TO BE USED AT GUARDRAIL REMOVAL AS DIRECTED BY THE ENGINEER.

(3) SHALL BE SCHEDULE 80 PVC. INCLUDES ONE CROSSING WITH 3-CONDUITS.

(4) SHALL BE STRAPPED TO BRIDGE. INCLUDES ALL APPURTENANCES REQUIRED FOR THE COMPLETE INSTALLATION.

(5) INCLUDED FOR GROUNDING WITHIN JACK AND BORE AND CONDUIT STRAPPED TO THE BRIDGE. INCLUDES THE COST OF PULL WIRE FOR 1-SPARE JACK AND BORED CONDUIT.

(6) SHALL BE 45' ROUND TAPERED STEEL POLE. INCLUDES THE COST OF THE 15' ARM.

(7) SHALL BE 45' ROUND TAPERED STEEL POLE. INCLUDES THE COST OF THE TENON ARM.

(8) INCLUDES 3-HIGH MASTS WITH 4-LUMINAIRES, 3-HIGH MAST WITH 6-LUMINAIRES AND 1-HIGH MAST WITH 8-LUMINAIRES.

(9) SHALL BE CLASS 'A' CONCRETE FOUNDATION, SEE TDOT STD. DWG. T-L-1.

(10) THE ROADWAY LUMINAIRE SHALL BE 250W HPS AMERICAN ELECTRIC ROADWAY SERIES 115 COBRAHEAD, NES STOCK # 303310000. USE AMERICAN ELECTRIC CATALOGUE NO. 115-25S-CA-MT1-R3-DG-M2-EC-RFD66853, OR EQUIVALENT. BASED ON AMERICAN ELECTRIC PHOTOMETRIC DATA FILE 115_25S_R3_DG.IES; TOTAL LUMENS=27,500. LUMINAIRE SHALL BE BALLASTED FOR 240 VOLT OPERATION.

(11) THE HIGH MAST LUMINAIRE SHALL BE 1000W HPS HOLOPHANE HIGH MAST SERIES LUMINAIRE HMST, NES STOCK #303370000. USE HOLOPHANE CATALOGUE NO. HMST C10HP-MT-H1-PS, OR EQUIVALENT. USE HOLOPHANE IES FILE HMSTC10HP00S1.IES, WITH TOTAL LUMENS = 140,000. LUMINAIRE SHALL BE BALLASTED FOR 240 VOLT OPERATION.

(12) THE OFFSET LUMINAIRE SHALL BE 250W HPS, HIGH TILT HOLOPHANE MONGOOSE LUMINAIRE, NES STOCK #303346000. USE HOLOPHANE CATALOGUE NO. G250HP-MA-H-DR-V-G-C-P-R-6, OR EQUIVALENT. USE HOLOPHANE IES FILE G250HP00HDRXXX.IES, WITH TOTAL LUMENS = 28,000. LUMINAIRE SHALL BE BALLASTED FOR 240 VOLT OPERATION.

(13) THE UNDERPASS LUMINAIRE SHALL BE HOLOPHANE 150W HIGH PRESSURE SODIUM WALLPACK IV, NES STOCK #303304000. USE HOLOPHANE CATALOGUE NO. W415AHP00SX, OR EQUIVALENT. USE HOLOPHANE IES FILE 55122.IES, WITH TOTAL LUMENS = 16,000. LUMINAIRE SHALL BE BALLASTED FOR 240V OPERATION.

(14) INCLUDES THE COST OF THE 100 TO 200 AMP DISCONNECT. ALSO INCLUDES THE COSTS ASSOCIATED WITH THE CONNECTION OF THE CONTROL CENTER TO THE POWER SUPPLY SOURCE.

(15) THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITY TO OBTAIN THE ESTIMATE FOR ANY CHARGES BY THE UTILITY FOR PROVIDING ELECTRICAL SERVICE TO THE CONTROL CENTER(S). THESE CHARGES SHALL BE INCLUDED IN THE BID FOR THIS ITEM. ALSO, INCLUDES THE COST OF THE STEEL CONDUIT RISER ASSEMBLY, PROPOSED POWER CABLE OVERHEAD, AND THE COST TO FURNISH AND INSTALL TRANSFORMERS, AS REQUIRED.

(16) TO BE USED IN ALL DISTURBED AREAS AS DIRECTED BY THE ENGINEER.

SEALED BY

Brenda K. Booker

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

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