TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	PHSIP-168(10)	2

S.R. 168 KNOX CO.

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)	209-01.10	EROSION AND SILTATION CONTROL (EPSC)	LS	1
	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	220
	307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	70
	307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	45
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	1
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	2
	411-02.10	ACS MIX(PG70-22) GRADING D	TON	250
	411-12.01	SCORING SHOULDERS (CONTINUOUS) (16IN WIDTH)	L.M.	0.1
	415-01.02	COLD PLANING BITUMINOUS PAVEMENT	S.Y.	3270
	712-01	TRAFFIC CONTROL	LS	1
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	100
	712-05.03	WARNING LIGHTS (TYPE C)	EACH	100
	712-06	SIGNS (CONSTRUCTION)	S.F.	222
	712-08.03	ARROW BOARD (TYPE C)	EACH	2
(3)	713-15.36	REMOVE SIGN, SUPPORT & FOOTING	EACH	3
(4)	713-16.20	SIGNS (R3-8)	EACH	3
(5)	713-16.21	SIGNS (W3-3)	EACH	3
	713-16.22	SIGNS (W16-15P)	EACH	3
(6)	713-16.23	SIGNS (STREET NAME)	EACH	3
(7)	716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	45
(7)	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	90
(7)	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	7
	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	0.5
	716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	L.F.	90
	716-13.01	SPRAY THERMO PVMT MRKNG (60 mil) (4IN LINE)	L.M.	0.5
	716-13.04	SPRAY THERMO PVMT MRKNG (60 mil) (4IN DOTTED LINE)	L.F.	150
	717-01	MOBILIZATION	LS	1
	730-02.08	SIGNAL HEAD ASSEMBLY (130 POLE MOUNTED)	EACH	1
	730-02.09	SIGNAL HEAD ASSEMBLY (130 WITH BACKPLATE)	EACH	4
	730-02.17	SIGNAL HEAD ASSEMBLY (150 A2H WITH BACKPLATE)	EACH	3
	730-03.21	INSTALL PULL BOX (TYPE B)	EACH	3
	730-03.23	INSTALL PULL BOX (FIBER OPTIC-TYPE A)	EACH	3
	730-03.24	INSTALL PULL BOX (FIBER OPTIC-TYPE B)	EACH	2
(8)	730-05.01	ELECTRICAL SERVICE CONNECTION	EACH	1
	730-08.03	SIGNAL CABLE - 7 CONDUCTOR	L.F.	1200
	730-08.40	INTERCONNECT CABLE - FIBER OPTIC (6 FIB. MUTLI-MODE)	L.F.	900
	730-08.41	INTERCONNECT CABLE - FIBER OPTIC (6 FIB. SINGLE-MODE)	L.F.	900
	730-12.02	CONDUIT 2" DIAMETER (PVC)	L.F.	725
	730-12.13	CONDUIT 2" DIAMETER (JACK AND BORE)	L.F.	550
(9)	730-13.08	VEHICLE DETECTOR (INTERSECTION RADAR DETECTION)	EACH	1
(10)	730-15.11	MODIFY CABINET (FIBER INTERCONNECT)	EACH	1
	730-15.32	CABINET (EIGHT PHASE BASE MOUNTED)	EACH	1
(11)	730-16.02	EIGHT PHASE ACTUATED CONTROLLER	EACH	1
(12)	730-23.36	CANTILEVER SIGNAL SUPPORT (2 @ 45' & 50')	EACH	1
(12)	730-23.37	CANTILEVER SIGNAL SUPPORT (1 ARM @ 65')	EACH	1
(13)	730-35.06	BATTERY BACK-UP AND POWER CONDITIONER	EACH	1
	801-01	SEEDING (WITH MULCH)	UNIT	15
	801-03	WATER (SEEDING & SODDING)	M.G.	1.2

FOOTNOTES:

(1) INCLUDES REMOVAL OF RAISED CONCRETE ISLAND AND SCARIFICATION OF PAVEMENT.

(2) INCLUDES SILT FENCE AND OTHER ITEMS AS REQUIRED TO PROVIDE EROSION CONTROL IN AREAS OF EXCAVATION.

(3) REMOVAL OF 3 SIGN ASSEMBLIES AND POSTS AS SHOWN ON SHEET 7.

(4) INCLUDES SIGN, SUPPORT (TYPE P2), AND INCIDENTALS NECESSARY FOR COMPLETE INSTALLATION.

(5) INCLUDES SIGN, SUPPORT (TYPE P5), AND INCIDENTALS NECESSARY FOR COMPLETE INSTALLATION.

(6) OVERHEAD MOUNTED STREET NAME SIGNS SHALL POSSESS MINIMUM 12" UPPERCASE AND 9" LOWERCASE LETTERS, WITH FINAL LEGEND DESIGN COORDINATED WITH KNOX COUNTY.

(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) 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. ITEM ALSO INCLUDES ALL CONDUIT, CABLE, RISERS, AND ALL OTHER ITEMS NECESSARY FOR ELECTRICAL CONNECTION TO SIGNAL.

(9) INCLUDES ALL DETECTOR UNITS, WIRING, AND INCIDENTALS REQUIRED FOR FULLY FUNCTIONAL INTERSECTION DETECTION AS SHOWN ON THE PLANS. RADAR DETECTION SHALL BE WAVETRONIX BRAND, OR APPROVED EQUAL.

(10) INCLUDES ALL ITEMS NECESSARY TO MODIFY TO SIGNAL CABINET AT THE INTERSECTION OF CHAPMAN HIGHWAY AND ACCESS RAMP TO COMMUNICATE TO THE INTERSECTION OF JOHN SEVIER HIGHWAY AND ACCESS RAMP VIA FIBER INTERCONNECT.

(11) SHALL BE PEEK 3000E

(12) INCLUDES FOUNDATION.

(13) SHALL BE PSI UNINTERRUPTABLE POWER SUPPLY PLACED IN SIGNAL CABINET.

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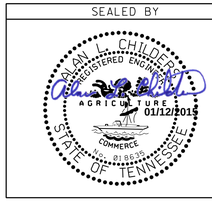

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

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