TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP-345(11)	2A

S.R. 345 CLAIBORNE CO.
13061-3206-94 (CONST.)

ESTIMATED SIGNAL QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1	713-15.07	SUSPENDED FLAT SHEET ALUMINUM SIGN (0.080" THICK)	EACH	1
2	713-15.40	SIGN INSTALLATION (SUSPENDED STREET NAME SIGNS)	LS	1
3	730-01.02	REMOVAL OF SIGNAL EQUIPMENT	EACH	1
4	730-02.09	SIGNAL HEAD ASSEMBLY (130 WITH BACKPLATE)	EACH	6
4	730-02.17	SIGNAL HEAD ASSEMBLY (150 A2H WITH BACKPLATE)	EACH	2
4	730-02.30	SIGNAL HEAD ASSEMBLY (130A3 WITH BACKPLATE)	EACH	2
4	730-02.31	SIGNAL HEAD ASSEMBLY (140A1 WITH BACKPLATE)	EACH	1
	730-03.20	INSTALL PULL BOX (TYPE A)	EACH	7
	730-03.21	INSTALL PULL BOX (TYPE B)	EACH	3
5	730-05.01	ELECTRICAL SERVICE CONNECTION	EACH	1
	730-08.02	SIGNAL CABLE - 5 CONDUCTOR	L.F.	287
	730-08.03	SIGNAL CABLE - 7 CONDUCTOR	L.F.	655
	730-09.01	SPAN WIRE ASSEMBLY(19,401 LBS.MIN.BRK STRENGTH)	L.F.	406
	730-10.01	TETHER WIRE ASSEMBLY - 1/4" DIAMETER	L.F.	406
	730-12.01	CONDUIT 1" DIAMETER (PVC)	L.F.	692
	730-12.02	CONDUIT 2" DIAMETER (PVC)	L.F.	91
	730-12.13	CONDUIT 2" DIAMETER (JACK AND BORE)	L.F.	81
	730-13.03	VEHICLE DETECTOR (4 - CHANNEL, RACK MOUNT)	EACH	3
10	730-13.07	VEHICLE DETECTOR (SIREN ACTIVATED PRIORITY CONTROL)	EACH	4
	730-14.01	SHIELDED DETECTOR CABLE	L.F.	2261
	730-14.02	SAW SLOT	L.F.	1542
	730-14.03	LOOP WIRE	L.F.	4114
	730-15.32	CABINET (EIGHT PHASE BASE MOUNTED)	EACH	1
	730-16.02	EIGHT PHASE ACTUATED CONTROLLER	EACH	1
6,11	730-23.01	STEEL STRAIN POLE (SIGNAL SUPPORT)	EACH	1
7,11	730-23.02	STEEL STRAIN POLE (SIGNAL SUPPORT)	EACH	2
8,11	730-23.03	STEEL STRAIN POLE (SIGNAL SUPPORT)	EACH	1
9	730-40	TEMPORARY TRAFFIC SIGNAL SYSTEM	EACH	1

FOOTNOTES

1. FOR R10-12 SIGN

2. TO INCLUDE FIVE (5) STREET NAME SIGNS AND ALL NECESSARY HARDWARE. SIGNS TO BE INSTALLED ON THE SPAN WIRE, AS SHOWN ON SHEET 13, BY THE CONTRACTOR. SEE DETAILS OF SIGNS ON SHEET 12.

3. INCLUDES THE REMOVAL OF ALL SIGNAL POLES, SIGNAL HEADS, SIGNAL CABLES, CONTROLLER, AND ANY OTHER SIGNAL RELATED EQUIPMENT . ALSO TO INCLUDE THE ADJUSTMENT OF SIGNAL HEADS AS NEEDED FOR THE TRAFFIC CONTROL PLANS. (FOR USE AT SR-345/CHURCH ST AND SR-32 INTERSECTION)

4. SIGNAL HEADS SHALL INCLUDE LOUVERED BACKPLATES WITH A 1" MINIMUM YELLOW RETRO REFLECTIVE BORDER AROUND THE PERIMETER OF THE FACE OF THE BACKPLATE. THE RETRO REFLECTIVE BORDER TO BE MADE OF A TYPE III PRISMATIC OR BETTER MATERIAL.

5. THE CONTRACTOR WILL 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 730-05.01 FOR PAYMENT BY THE CONTRACTOR.

6. FOR SIGNAL POLE 1
   MOMENT CAPACITY: 307,000 FT-LBS.
   FOOTING DIAMETER: 4'-0"
   FOOTING DEPTH: 20'-0"

FOOTNOTES CONTINUED

7. FOR SIGNAL POLES 2 & 4
   MOMENT CAPACITY: 349,500 FT-LBS.
   FOOTING DIAMETER: 4'-0"
   FOOTING DEPTH: 22'-0"

8. FOR SIGNAL POLE 3
   MOMENT CAPACITY: 371,900 FT-LBS.
   FOOTING DIAMETER: 4'-0"
   FOOTING DEPTH: 22'-0"

9. INCLUDES WOOD POLES, GUYING DEVICES, SPAN WIRE, CONDUIT RISERS, AND ANY OTHER SIGNAL EQUIPMENT NEEDED FOR A FULLY OPERATIONAL TRAFFIC SIGNAL SYSTEM.

10. THE EMERGENCY PRE-EMPTION UNIT TO BE SONEM 2000 OR APPROVED EQUIVALENT. ITEM INCLUDES ALL MATERIALS REQUIRED TO IMPLEMENT EMERGENCY EPS CONTROL INCLUDES PROCESSOR UNIT,POWER SUPPLY, PHASE SELECTORS, AND ALL OTHER ITEMS TO HAVE A FULL AND OPERATIONAL SYSTEM AS REQUIRED BY THE MANUFACTURER. INCLUDES 555 FT. OF DETECTOR CABLE.

11. MAXIMUM SPACING FOR A700 REINFORCING BARS TO BE 1'-6".

SPECIAL NOTES REGARDING SIGNAL HEADS

(1) ALL CIRCULAR AND ARROW INDICATIONS WITHIN ALL VEHICULAR SIGNAL HEADS PROPOSED FOR THIS PROJECT SHALL CONSIST OF AN LED (LIGHT EMITTING DIODE) SIGNAL MODULE UNLESS OTHERWISE NOTED IN THE PLANS.

(2) CIRCULAR INDICATIONS SHALL MEET “ITE VTCSH-LED CIRCULAR SIGNAL SUPPLEMENT” FOR EXPANDED/EXTENDED VIEW.

(3) ARROW INDICATIONS SHALL MEET “ITE VTCSH-3 LED ARROW SPECIFICATON” FOR EXPANDED/EXTENDED VIEW.

(4) INCANDESCENT OR SCREW-IN MODULES ARE NOT ACCEPTABLE.

(5) COMPATABILITY WITH CONFLICT MONITORS AND LOAD SWITCHES SHALL BE TESTED AND CONFIRMED.

(6) MANUFACTURER SHALL PROVIDE A MINIMUM FIVE-YEAR WARRANTY FOR OPERATION OF THE UNIT.

(7) ALL SIGNAL HEADS WITH LED LENSES SHALL INCLUDE SWIVEL BALANCE ADJUSTERS TO MAINTAIN THE PROPER VISIBILITY. COSTS OF ADJUSTERS TO BE INCLUDED IN COSTS OF SIGNAL HEADS.

(8) THE ATTACHMENT OF THE TETHER WIRE TO THE POLE SHALL BE LOCATED BELOW THE LOWEST ELEVATION OF THE SIGNAL HEADS.

SEALED BY

06/18/2014

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED SIGNAL QUANTITIES AND SPECIAL NOTES

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