



COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET

Frankfort, Kentucky 40622
www.transportation.ky.gov/

Matthew G. Bevin
Governor

Greg Thomas
Secretary

October 18, 2019

CALL NO. 105
CONTRACT ID NO. 191063
ADDENDUM # 1

Subject: CHRISTIAN COUNTY, STP 6000(166)
Letting October 25, 2019

- (1) Added - Special Notes - Pages 201(a)-201(c) of 251
- (2) Revised - Proposal Bid Items - Pages 248-251 of 251
- (3) Revised - Plan Sheets - T1, T10, R2B, R2E, and R80

Proposal revisions are available at <http://transportation.ky.gov/Construction-Procurement/>.

If you have any questions, please contact us at 502-564-3500.

Sincerely,

A handwritten signature in black ink that reads "Rachel Mills".

Rachel Mills, P.E.
Director
Division of Construction Procurement

RM:mr
Enclosures



An Equal Opportunity Employer M/F/D

SPECIAL NOTE FOR PORTABLE CHANGEABLE MESSAGE SIGNS

This Special Note will apply when indicated on the plans or in the proposal.

1.0 DESCRIPTION. Furnish, install, operate, and maintain variable message signs at the locations shown on the plans or designated by the Engineer. Remove and retain possession of variable message signs when they are no longer needed on the project.

2.0 MATERIALS.

2.1 General. Use LED Variable Message Signs Class I, II, or III, as appropriate, from the Department's List of Approved Materials.

Unclassified signs may be submitted for approval by the Engineer. The Engineer may require a daytime and nighttime demonstration. The Engineer will make a final decision within 30 days after all required information is received.

2.2 Sign and Controls. All signs must:

- 1) Provide 3-line messages with each line being 8 characters long and at least 18 inches tall. Each character comprises 35 pixels.
- 2) Provide at least 40 preprogrammed messages available for use at any time. Provide for quick and easy change of the displayed message; editing of the message; and additions of new messages.
- 3) Provide a controller consisting of:
 - a) Keyboard or keypad.
 - b) Readout that mimics the actual sign display. (When LCD or LCD type readout is used, include backlighting and heating or otherwise arrange for viewing in cold temperatures.)
 - c) Non-volatile memory or suitable memory with battery backup for storing pre-programmed messages.
 - d) Logic circuitry to control the sequence of messages and flash rate.
- 4) Provide a serial interface that is capable of supporting complete remote control ability through land line and cellular telephone operation. Include communication software capable of immediately updating the message, providing complete sign status, and allowing message library queries and updates.
- 5) Allow a single person easily to raise the sign to a satisfactory height above the pavement during use, and lower the sign during travel.
- 6) Be Highway Orange on all exterior surfaces of the trailer, supports, and controller cabinet.
- 7) Provide operation in ambient temperatures from -30 to + 120 degrees Fahrenheit during snow, rain and other inclement weather.
- 8) Provide the driver board as part of a module. All modules are interchangeable, and have plug and socket arrangements for disconnection and reconnection. Printed circuit boards associated with driver boards have a conformable coating to protect against moisture.
- 9) Provide a sign case sealed against rain, snow, dust, insects, etc. The lens is UV stabilized clear plastic (polycarbonate, acrylic, or other approved material) angled to prevent glare.
- 10) Provide a flat black UV protected coating on the sign hardware, character PCB, and appropriate lens areas.
- 11) Provide a photocell control to provide automatic dimming.

- 12) Allow an on-off flashing sequence at an adjustable rate.
- 13) Provide a sight to aim the message.
- 14) Provide a LED display color of approximately 590 nm amber.
- 15) Provide a controller that is password protected.
- 16) Provide a security device that prevents unauthorized individuals from accessing the controller.
- 17) Provide the following 3-line messages preprogrammed and available for use when the sign unit begins operation:

/KEEP/RIGHT/=>=>=>/	/MIN/SPEED/**MPH/
/KEEP/LEFT/<=<=</	/ICY/BRIDGE/AHEAD/ /ONE
/LOOSE/GRAVEL/AHEAD/	LANE/BRIDGE/AHEAD/
/RD WORK/NEXT/**MILES/	/ROUGH/ROAD/AHEAD/
/TWO WAY/TRAFFIC/AHEAD/	/MERGING/TRAFFIC/AHEAD/
/PAINT/CREW/AHEAD/	/NEXT/**/MILES/
/REDUCE/SPEED/**MPH/	/HEAVY/TRAFFIC/AHEAD/
/BRIDGE/WORK/**0 FT/	/SPEED/LIMIT/**MPH/
/MAX/SPEED/**MPH/	/BUMP/AHEAD/
/SURVEY/PARTY/AHEAD/	/TWO/WAY/TRAFFIC/

*Insert numerals as directed by the Engineer.
Add other messages during the project when required by the Engineer.

2.3 Power.

- 1) Design solar panels to yield 10 percent or greater additional charge than sign consumption. Provide direct wiring for operation of the sign or arrow board from an external power source to provide energy backup for 21 days without sunlight and an on-board system charger with the ability to recharge completely discharged batteries in 24 hours.

3.0 CONSTRUCTION. Furnish and operate the variable message signs as designated on the plans or by the Engineer. Ensure the bottom of the message panel is a minimum of 7 feet above the roadway in urban areas and 5 feet above in rural areas when operating. Use Class I, II, or III signs on roads with a speed limit less than 55 mph. Use Class I or II signs on roads with speed limits 55 mph or greater.

Maintain the sign in proper working order, including repair of any damage done by others, until completion of the project. When the sign becomes inoperative, immediately repair or replace the sign. Repetitive problems with the same unit will be cause for rejection and replacement.

Use only project related messages and messages directed by the Engineer, unnecessary messages lessen the impact of the sign. Ensure the message is displayed in either one or 2 phases with each phase having no more than 3 lines of text. When no message is needed, but it is necessary to know if the sign is operable, flash only a pixel.

When the sign is not needed, move it outside the clear zone or where the Engineer directs. Variable Message Signs are the property of the Contractor and shall be removed from the project when no longer needed. The Department will not assume ownership of these signs.

4.0 MEASUREMENT. The final quantity of Variable Message Sign will be

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the actual number of individual signs acceptably furnished and operated during the project. The Department will not measure signs replaced due to damage or rejection.

5.0 PAYMENT. The Department will pay for the Variable Message Signs at the unit price each. The Department will not pay for signs replaced due to damage or rejection. Payment is full compensation for furnishing all materials, labor, equipment, and service necessary to, operate, move, repair, and maintain or replace the variable message signs. The Department will make payment for the completed and accepted quantities under the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
02671	Portable Changeable Message Sign	Each

Effective June 15, 2012

PROPOSAL BID ITEMS

Report Date 10/18/19

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00003		CRUSHED STONE BASE	6,517.00	TON		\$	
0020	00078		CRUSHED AGGREGATE SIZE NO 2	12,930.00	TON		\$	
0030	00190		LEVELING & WEDGING PG64-22	214.00	TON		\$	
0040	00212		CL2 ASPH BASE 1.00D PG64-22	5,970.00	TON		\$	
0050	00356		ASPHALT MATERIAL FOR TACK	14.00	TON		\$	
0060	02101		CEM CONC ENT PAVEMENT-8 IN	43.00	SQYD		\$	
0070	02676		MOBILIZATION FOR MILL & TEXT	1.00	LS		\$	
0080	02677		ASPHALT PAVE MILLING & TEXTURING	28.00	TON		\$	
0090	23362ES403		CL2 ASPH SURF 0.5B PG64-22	1,422.00	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0100	01810		STANDARD CURB AND GUTTER	3,434.00	LF		\$	
0110	01892		ISLAND HEADER CURB TYPE 1 - MODIFIED	154.00	LF		\$	
0120	02014		BARRICADE-TYPE III	3.00	EACH		\$	
0130	02091		REMOVE PAVEMENT	41.00	SQYD		\$	
0140	02159		TEMP DITCH	1,128.00	LF		\$	
0150	02160		CLEAN TEMP DITCH	564.00	LF		\$	
0160	02200		ROADWAY EXCAVATION	14,688.00	CUYD		\$	
0170	02242		WATER	213.00	MGAL		\$	
0180	02360		GUARDRAIL TERMINAL SECTION NO 1	1.00	EACH		\$	
0190	02381		REMOVE GUARDRAIL	350.00	LF		\$	
0200	02395		REMOVE GUARDRAIL TERMINAL SECT	1.00	EACH		\$	
0210	02429		RIGHT-OF-WAY MONUMENT TYPE 1	7.00	EACH		\$	
0220	02432		WITNESS POST	3.00	EACH		\$	
0230	02545		CLEARING AND GRUBBING 8.18 ACRES	1.00	LS		\$	
0240	02555		CONCRETE-CLASS B	15.00	CUYD		\$	
0250	02562		TEMPORARY SIGNS	256.00	SQFT		\$	
0260	02585		EDGE KEY	416.00	LF		\$	
0270	02599		FABRIC-GEOTEXTILE TYPE IV	29,984.00	SQYD		\$	
0280	02600		FABRIC GEOTEXTILE TY IV FOR PIPE	3,430.00	SQYD	\$2.00	\$	\$6,860.00
0290	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0295	02671		PORTABLE CHANGEABLE MESSAGE SIGN (ADDED: 10-18-19)	3.00	EACH		\$	
0300	02690		SAFELoading	13.00	CUYD		\$	
0310	02701		TEMP SILT FENCE	1,128.00	LF		\$	
0320	02703		SILT TRAP TYPE A	9.00	EACH		\$	
0330	02704		SILT TRAP TYPE B	9.00	EACH		\$	
0340	02705		SILT TRAP TYPE C	9.00	EACH		\$	
0350	02706		CLEAN SILT TRAP TYPE A	9.00	EACH		\$	
0360	02707		CLEAN SILT TRAP TYPE B	9.00	EACH		\$	
0370	02708		CLEAN SILT TRAP TYPE C	9.00	EACH		\$	
0380	02720		SIDEWALK-4 IN CONCRETE	1,920.00	SQYD		\$	
0390	02726		STAKING	1.00	LS		\$	

PROPOSAL BID ITEMS

Report Date 10/18/19

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0400	05950		EROSION CONTROL BLANKET	1,463.00	SQYD		\$	
0410	05952		TEMP MULCH	26,395.00	SQYD		\$	
0420	05953		TEMP SEEDING AND PROTECTION	19,796.00	SQYD		\$	
0430	05963		INITIAL FERTILIZER	.66	TON		\$	
0440	05964		MAINTENANCE FERTILIZER	1.10	TON		\$	
0450	05985		SEEDING AND PROTECTION	17,732.00	SQYD		\$	
0460	05990		SODDING	2,152.00	SQYD		\$	
0470	05992		AGRICULTURAL LIMESTONE	13.23	TON		\$	
0480	06510		PAVE STRIPING-TEMP PAINT-4 IN	13,652.00	LF		\$	
0490	06514		PAVE STRIPING-PERM PAINT-4 IN	12,270.00	LF		\$	
0500	06516		PAVE STRIPING-PERM PAINT-8 IN	201.00	LF		\$	
0510	06530		PAVE STRIPING REMOVAL-4 IN	2,595.00	LF		\$	
0520	06563		PAVE MARKING-R/R XBUCKS 16 IN	40.00	LF		\$	
0530	06565		PAVE MARKING-THERMO X-WALK-6 IN	419.00	LF		\$	
0540	06568		PAVE MARKING-THERMO STOP BAR-24IN	265.00	LF		\$	
0550	06572		PAVE MARKING-DOTTED LANE EXTEN	661.00	LF		\$	
0560	06574		PAVE MARKING-THERMO CURV ARROW	13.00	EACH		\$	
0570	06575		PAVE MARKING-THERMO COMB ARROW	2.00	EACH		\$	
0580	06576		PAVE MARKING-THERMO ONLY	1.00	EACH		\$	
0590	06585		PAVEMENT MARKER TY IVA-MW TEMP	372.00	EACH		\$	
0600	06588		PAVEMENT MARKER TY IVA-BY TEMP	177.00	EACH		\$	
0610	08001		STRUCTURE EXCAVATION-COMMON	7.00	CUYD		\$	
0620	10020NS		FUEL ADJUSTMENT	21,374.00	DOLL	\$1.00	\$	\$21,374.00
0630	10030NS		ASPHALT ADJUSTMENT	29,736.00	DOLL	\$1.00	\$	\$29,736.00
0640	20430ED		SAW CUT	52.00	LF		\$	
0660	21289ED		LONGITUDINAL EDGE KEY	520.00	LF		\$	
0670	23158ES505		DETECTABLE WARNINGS	301.00	SQFT		\$	
0680	24489EC		INLAID PAVEMENT MARKER	12.00	EACH		\$	
0690	24814EC		PIPELINE INSPECTION	2,349.00	LF		\$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0700	00521		STORM SEWER PIPE-15 IN	940.00	LF		\$	
0710	00522		STORM SEWER PIPE-18 IN	1,175.00	LF		\$	
0720	00524		STORM SEWER PIPE-24 IN	185.00	LF		\$	
0730	00526		STORM SEWER PIPE-30 IN	21.00	LF		\$	
0740	00552		STORM SEWER PIPE-18 IN EQUIV	28.00	LF		\$	
0750	01000		PERFORATED PIPE-4 IN	250.00	LF		\$	
0760	01204		PIPE CULVERT HEADWALL-18 IN	1.00	EACH		\$	
0770	01205		PIPE CULVERT HEADWALL-18 IN EQUIV	1.00	EACH		\$	
0780	01210		PIPE CULVERT HEADWALL-30 IN	1.00	EACH		\$	
0790	01456		CURB BOX INLET TYPE A	21.00	EACH		\$	
0800	01542		DROP BOX INLET TYPE 10 MOD	1.00	EACH		\$	
0810	01740		CORED HOLE DRAINAGE BOX CON-4 IN	22.00	EACH		\$	
0820	01756		MANHOLE TYPE A	1.00	EACH		\$	
0830	02483		CHANNEL LINING CLASS II	15.00	TON		\$	
0840	02484		CHANNEL LINING CLASS III	30.00	TON		\$	

PROPOSAL BID ITEMS

Report Date 10/18/19

Section: 0004 - SEWER

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0850	15021		S ENCASEMENT STEEL OPEN CUT RANGE 2	110.00	LF		\$	
0860	15030		S FORCE MAIN DIRECTIONAL BORE	479.00	LF		\$	
0870	15049		S FORCE MAIN PE/PLASTIC 02 INCH	805.00	LF		\$	
0880	15057		S FORCE MAIN PVC 02 INCH	34.00	LF		\$	
0890	15081		S FORCE MAIN TIE-IN SPECIAL	1.00	EACH		\$	
0900	15084		S FORCE MAIN VALVE GATE	1.00	EACH		\$	
0910	15123		S LINE MARKER	5.00	EACH		\$	
0920	15507		S FORCE MAIN AIR RLS/VAC VLV 02 IN INST	1.00	EACH		\$	

Section: 0005 - SIGNALIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0930	04792		CONDUIT-1 IN	20.00	LF		\$	
0940	04793		CONDUIT-1 1/4 IN	110.00	LF		\$	
0950	04795		CONDUIT-2 IN	125.00	LF		\$	
0960	04811		ELECTRICAL JUNCTION BOX TYPE B	4.00	EACH		\$	
0970	04820		TRENCHING AND BACKFILLING	255.00	LF		\$	
0980	04830		LOOP WIRE	1,800.00	LF		\$	
0990	04844		CABLE-NO. 14/5C	2,400.00	LF		\$	
1000	04850		CABLE-NO. 14/1 PAIR	1,330.00	LF		\$	
1010	04886		MESSENGER-15400 LB	470.00	LF		\$	
1020	04895		LOOP SAW SLOT AND FILL	778.00	LF		\$	
1030	04932		INSTALL STEEL STRAIN POLE	4.00	EACH		\$	
1035	20390NS835		INSTALL COORDINATING UNIT (ADDED: 10-18-19)	1.00	EACH		\$	
1040	20093NS835		INSTALL PEDESTRIAN HEAD-LED	6.00	EACH		\$	
1050	20094ES835		TEMP RELOCATION OF SIGNAL HEAD	8.00	EACH		\$	
1060	20188NS835		INSTALL LED SIGNAL-3 SECTION	14.00	EACH		\$	
1070	20266ES835		INSTALL LED SIGNAL- 4 SECTION	1.00	EACH		\$	
1080	21659NN		RELOCATE SIGNAL HEAD	8.00	EACH		\$	
1090	21743NN		INSTALL PEDESTRIAN DETECTOR	6.00	EACH		\$	
1100	23157EN		TRAFFIC SIGNAL POLE BASE	16.00	CUYD		\$	
1110	23206EC		INSTALL CONTROLLER CABINET	1.00	EACH		\$	
1120	24908EC		INSTALL SIGNAL CONTROLLER-TY ATC	1.00	EACH		\$	
1130	24955ED		REMOVE SIGNAL EQUIPMENT	1.00	EACH		\$	

Section: 0006 - LIGHTING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1140	04740		POLE BASE	2.00	EACH		\$	
1150	04750		TRANSFORMER BASE	2.00	EACH		\$	
1160	04780		FUSED CONNECTOR KIT	4.00	EACH		\$	
1170	04795		CONDUIT-2 IN	145.00	LF		\$	
1180	04832		WIRE-NO. 12	160.00	LF		\$	

PROPOSAL BID ITEMS

Report Date 10/18/19

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1190	04833		WIRE-NO. 8	435.00	LF		\$	
1195	04940		REMOVE LIGHTING (ADDED: 10-18-19)	1.00	LS		\$	
1200	04942		REMOVE STORE & REINSTALL POLE	2.00	EACH		\$	
1210	21543EN		BORE AND JACK CONDUIT	145.00	LF		\$	

Section: 0007 - WATERLINE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1220	14005		W ENCASEMENT CONCRETE	5.00	LF		\$	
1230	14009		W ENCASEMENT STEEL BORED RANGE 4	202.00	LF		\$	
1240	14015		W ENCASEMENT STEEL OPEN CUT RANGE 4	60.00	LF		\$	
1250	14019		W FIRE HYDRANT ASSEMBLY	2.00	EACH		\$	
1260	14021		W FIRE HYDRANT REMOVE	2.00	EACH		\$	
1270	14056		W PIPE PVC 02 INCH	10.00	LF		\$	
1280	14058		W PIPE PVC 04 INCH	10.00	LF		\$	
1290	14060		W PIPE PVC 08 INCH	2,651.00	LF		\$	
1300	14062		W PIPE PVC 12 INCH	260.00	LF		\$	
1310	14074		W PLUG EXISTING MAIN	4.00	EACH		\$	
1320	14089		W TAPPING SLEEVE AND VALVE SIZE 1	2.00	EACH		\$	
1330	14095		W TIE-IN 08 INCH	4.00	EACH		\$	
1340	14097		W TIE-IN 12 INCH	1.00	EACH		\$	
1350	14104		W VALVE 04 INCH	1.00	EACH		\$	
1360	14106		W VALVE 08 INCH	6.00	EACH		\$	
1370	14108		W VALVE 12 INCH	1.00	EACH		\$	

Section: 0008 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1380	02568		MOBILIZATION	1.00	LS		\$	
1390	02569		DEMOBILIZATION	1.00	LS		\$	

TRAFFIC SIGNAL ESTIMATE OF QUANTITIES

TOTAL UNITS	CODE	ITEM DESCRIPTION
20	LIN FT 4792	CONDUIT 1 INCH
110	LIN FT 4793	CONDUIT 1 1/4 INCH
125	LIN FT 4795	CONDUIT 2 INCH
4	EACH 4811	ELECTRICAL JUNCTION BOX TYPE B
255	LIN FT 4820	TRENCHING AND BACKFILLING
1,800	LIN FT 4830	LOOP WIRE
2,400	LIN FT 4844	CABLE-NO. 14/5C
1,330	LIN FT 4850	CABLE-NO. 14/1 PAIR
470	LIN FT 4886	MESSENGER-15400 LB
778	LIN FT 4895	LOOP SAW SLOT AND FILL
4	EACH 4932	INSTALL STEEL STRAIN POLE
1	EACH 249556d	REMOVE SIGNAL EQUIPMENT
6	EACH 20093NS835	INSTALL PEDESTRIAN HEAD LED
8	EACH 20094ES835	TEMPORARY RELOCATION OF SIGNAL HEAD
14	EACH 20188NS835	INSTALL SIGNAL-3 SECTION LED
1	EACH 20266ES835	INSTALL SIGNAL-4 SECTION LED
8	EACH 21659NN	RELOCATE SIGNAL HEAD
6	EACH 21743NN	INSTALL PEDESTRIAN DETECTOR
16	CU YD 23157EN	TRAFFIC SIGNAL POLE BASE
1	EACH 23206EC	INSTALL CONTROLLER CABINET
1	EACH 24908EC	INSTALL SIGNAL CONTROLLER-TY ATC
1	EACH 20390NS835	INSTALL COORDINATING UNIT

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND OTHER SPECIAL NOTES AND SPECIFICATIONS WILL APPLY ON THIS PROJECT. SEE SECTION 706, 723, AND 112 FOR MEASUREMENT AND OTHER DETAILS. SEE SECTION 602 FOR SPIRAL REINFORCEMENT SPLICING.

THE CONTRACTOR SHALL MAKE AN INSPECTION OF THE PROJECT SITE PRIOR TO SUBMITTING A BID AND SHALL BE THOROUGHLY FAMILIARIZED WITH EXISTING CONDITIONS. SUBMISSIONS OF A BID WILL BE CONSIDERED AN AFFIRMATION OF THIS INSPECTION HAVING BEEN COMPLETED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PICKING UP INSTALL ITEMS FROM THE FRANKFORT POLE YARD AND DELIVERING THESE ITEMS TO THE SITE. THE CONTRACTOR SHALL CONTACT FRANKFORT POLE YARD PERSONNEL (502-782-8994/ 502-330-8153 OR EMAIL KIM.STAMPER@KY.GOV) AND ARRANGE TO PICK UP INSTALL ITEMS A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO ARRIVAL. THE CONTRACTOR SHALL ALSO CONTACT THE SIGNAL SYSTEM BRANCH (502-782-5543/502-782-5547 OR EMAIL JOE.THOMPSON@KY.GOV/ LARRY.IRISH@KY.GOV) TO ARRANGE PROGRAMMING OF THE ROUTER USED FOR COMMUNICATION IN THE TRAFFIC SIGNAL A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO ARRIVAL. FAILURE TO PROVIDE POLE YARD PERSONNEL/ SIGNAL SYSTEM BRANCH THIS ADVANCE NOTICE COULD RESULT IN LONG DELAYS OR REFUSAL TO DISTRIBUTE EQUIPMENT UPON ARRIVAL.

ADD SENTENCE TO SECTION 835.15: ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES : *PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 0501*.

MEASUREMENT NOTES THAT ARE IN ADDITION TO SECTION 723

INSTALL SIGNAL CONTROLLER TYPE ATC. THE DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT INSTALLED. THE DEPARTMENT WILL NOT MEASURE THE CONCRETE BASE, MOUNTING THE CABINET, CONNECTING THE SIGNAL AND DETECTORS, EXCAVATION, BACKFILLING, RESTORATION, ANY NECESSARY POLE MOUNTING HARDWARE, ELECTRIC SERVICE, ELECTRICAL INSPECTION FEES, AND REQUIRED BUILDING FEES INVOLVING UTILITY SECONDARY/PRIMARY SERVICE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL ALSO NOT MEASURE CONNECTING THE INDUCTION LOOP AMPLIFIERS, PEDESTRIAN ISOLATORS, LOAD SWITCHES, MODEL 400 MODEM CARD FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL ALSO NOT MEASURE FURNISHING AND INSTALLING ELECTRICAL SERVICE CONDUCTORS, CONDUITS, ANCHORS, METER BASE, FUSED CUTOFF, FUSES, GROUND RODS, GROUND LUGS, AND GROUND WIRES FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 723

SUBSECTION:03.02 POLES AND BASES INSTALLATION. B)
REVISION:REPLACE ENTIRE TABLE WITH THE FOLLOWING:

MAXIMUM SERVICE FORCES	DRILLED SHAFT DATA						VERTICAL BARS TOTAL	TIES OR SPIRAL BAR SIZE	SPACING OR PITCH (IN.)
	DIAMETER (IN.)	DEPTH (FEET)		ROCK	SOIL	ROCK			
		< 2:1 GROUND SLOPE	2:1 GROUND SLOPE"						
0-9.9	36	6	6.5	6	6	6	#8	#4	2
10-19.9	36	8	8	6	6	6	#8	#4	2
20-29.9	36	8	10.5	6	6	6	#8	#4	2
30-39.9	36	9.5	10.5	6	6	6	#8	#4	2
40-49.9	36	10	11	6	6	6	#8	#4	2
50-59.9	36	11	12	6	6	6	#8	#4	2
60-69.9	36	12.5	13.5	6	6	6	#8	#4	2
70-99.9	36	14.5	16	6	6	6	#8	#4	2
100-149.9	36	17	17.5	6	6	6	#8	#4	2
150-199.9	36	19.5	19.5	6	6	6	#8	#4	2
200-249.9	36	21.5	21.5	6	6	6	#8	#4	2
250-299.9	36	21.5	21.5	6	6	6	#8	#4	2
300-399.9	48	22.5	22.5	6	6	6	#8	#4	2
400-499.9	48	22.5	22.5	6	6	6	#8	#4	2
500-600	48	22.5	22.5	6	6	6	#8	#4	2

SUBSECTION:
REVISION:

03.13 LOOP INSTALLATION.
REPLACE FIRST SENTENCE NOTE WITH THE FOLLOWING:
TWIST UNSHIELDED LOOP WIRE (IMSA 51-7) WITH 3 TO 5 TURNS FROM THE START OF HOMERUN TO THE INSIDE CONDUIT, JUNCTION BOX, CABINET, OR POLE. TWIST UNSHIELDED LOOP WIRES (IMSA 51-7) WITH 3 TO 5 TURNS PER FOOT FROM THE START OF THE HOMERUN TO THE JUNCTION BOX, CABINET, OR POLE. SLOT CAN BE WIDEN TO 1/2" TO 5/8" TO HELP WITH THE INSTALLATION OF THE TWISTED WIRE.

SUBSECTION:
REVISION:

04.22 REMOVE SIGNAL EQUIPMENT. (CONSTRUCTION ONLY)
REPLACE THE PARAGRAPH WITH THE FOLLOWING:
THE DEPARTMENT WILL MEASURE THE QUANTITY BY EACH. THE DEPARTMENT WILL NOT MEASURE BACKFILLING AND THE DISPOSAL OR TRANSPORTATION OF EQUIPMENT AND MATERIALS ASSOCIATED WITH ANY STRUCTURAL OR ELECTRICAL COMPONENT OF THE SIGNAL SYSTEM INCLUDING, BUT NOT LIMITED TO POLE BASES, POLES, JUNCTION BOXES, CABINETS, AND WOOD POLES FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

COUNTY OF	ITEM NO.	SHEET NO.
CHRISTIAN	2-180.10	T1

DESIGNED BY: ADAM PROCTOR
DATE SUBMITTED: 9/13/2019

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF
CHRISTIAN

STP 600 (166)
PROJECT FD25 024 0911 000-001
NUMBERS:

TRAFFIC SIGNAL
ESTIMATE OF QUANTITIES
MEASUREMENT, CONST, AND MISC NOTES

TRAFFIC SIGNAL ESTIMATE OF QUANTITIES

TOTAL UNITS	CODE	ITEM DESCRIPTION
20	LIN FT 4792	CONDUIT 1 INCH
110	LIN FT 4793	CONDUIT 1 1/4 INCH
125	LIN FT 4795	CONDUIT 2 INCH
4	EACH 4811	ELECTRICAL JUNCTION BOX TYPE B
255	LIN FT 4820	TRENCHING AND BACKFILLING
1,800	LIN FT 4830	LOOP WIRE
2,400	LIN FT 4844	CABLE-NO. 14/5C
1,330	LIN FT 4850	CABLE-NO. 14/1 PAIR
470	LIN FT 4886	MESSANGER-15400 LB
778	LIN FT 4895	LOOP SAW SLOT AND FILL
4	EACH 4932	INSTALL STEEL STRAIN POLE
1	EACH 249556d	REMOVE SIGNAL EQUIPMENT
6	EACH 20093NS835	INSTALL PEDESTRIAN HEAD LED
8	EACH 20094ES835	TEMPORARY RELOCATION OF SIGNAL HEAD
14	EACH 20188NS835	INSTALL SIGNAL-3 SECTION LED
1	EACH 20266ES835	INSTALL SIGNAL-4 SECTION LED
8	EACH 21659NN	RELOCATE SIGNAL HEAD
6	EACH 21743NN	INSTALL PEDESTRIAN DETECTOR
16	CU YD 23157EN	TRAFFIC SIGNAL POLE BASE
1	EACH 23206EC	INSTALL CONTROLLER CABINET
1	EACH 24908EC	INSTALL SIGNAL CONTROLLER-TX-ATC
1	EACH 20390NS835	INSTALL COORDINATING UNIT

REVISED 10/16/2019

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND OTHER SPECIAL NOTES AND SPECIFICATIONS WILL APPLY ON THIS PROJECT. SEE SECTION 706, 723, AND 112 FOR MEASUREMENT AND OTHER DETAILS. SEE SECTION 602 FOR SPIRAL REINFORCEMENT SPLICING.

THE CONTRACTOR SHALL MAKE AN INSPECTION OF THE PROJECT SITE PRIOR TO SUBMITTING A BID AND SHALL BE THOROUGHLY FAMILIARIZED WITH EXISTING CONDITIONS. SUBMISSIONS OF A BID WILL BE CONSIDERED AN AFFIRMATION OF THIS INSPECTION HAVING BEEN COMPLETED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PICKING UP INSTALL ITEMS FROM THE FRANKFORT POLE YARD AND DELIVERING THESE ITEMS TO THE SITE. THE CONTRACTOR SHALL CONTACT FRANKFORT POLE YARD PERSONNEL (502-782-8994/ 502-330-8153 OR EMAIL KIM.STAMPER@KY.GOV) AND ARRANGE TO PICK UP INSTALL ITEMS A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO ARRIVAL. THE CONTRACTOR SHALL ALSO CONTACT THE SIGNAL SYSTEM BRANCH (502-782-5543/502-782-5547 OR EMAIL JOE.THOMPSON@KY.GOV/ LARRY.IRISH@KY.GOV) TO ARRANGE PROGRAMMING OF THE ROUTER USED FOR COMMUNICATION IN THE TRAFFIC SIGNAL A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO ARRIVAL. FAILURE TO PROVIDE POLE YARD PERSONNEL/ SIGNAL SYSTEM BRANCH THIS ADVANCE NOTICE COULD RESULT IN LONG DELAYS OR REFUSAL TO DISTRIBUTE EQUIPMENT UPON ARRIVAL.

ADD SENTENCE TO SECTION 835.15: ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES : *PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 0501*.

MEASUREMENT NOTES THAT ARE IN ADDITION TO SECTION 723

INSTALL SIGNAL CONTROLLER TYPE ATC. THE DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT INSTALLED. THE DEPARTMENT WILL NOT MEASURE THE CONCRETE BASE, MOUNTING THE CABINET, CONNECTING THE SIGNAL AND DETECTORS, EXCAVATION, BACKFILLING, RESTORATION, ANY NECESSARY POLE MOUNTING HARDWARE, ELECTRIC SERVICE, ELECTRICAL INSPECTION FEES, AND REQUIRED BUILDING FEES INVOLVING UTILITY SECONDARY/PRIMARY SERVICE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL ALSO NOT MEASURE CONNECTING THE INDUCTION LOOP AMPLIFIERS, PEDESTRIAN ISOLATORS, LOAD SWITCHES, MODEL 400 MODEM CARD FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL ALSO NOT MEASURE FURNISHING AND INSTALLING ELECTRICAL SERVICE CONDUCTORS, CONDUITS, ANCHORS, METER BASE, FUSED CUTOFF, FUSES, GROUND RODS, GROUND LUGS, AND GROUND WIRES FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 723

SUBSECTION:03.02 POLES AND BASES INSTALLATION. B) REVISION:REPLACE ENTIRE TABLE WITH THE FOLLOWING:

MAXIMUM SERVICE FORCES	DRILLED SHAFT DATA						VERTICAL BARS TOTAL	TIES OR SPIRAL BAR SIZE	SPACING OR PITCH (IN.)
	DIAMETER (IN.)	DEPTH (FEET)		ROCK	SOIL	ROCK			
		< 2:1 GROUND SLOPE	2:1 GROUND SLOPE"						
0-9.9	36	6	6.5	6	6	6	#8	2	
10-19.9	36	8	6	6	6	6	#8	2	
20-29.9	36	8	6	6	6	6	#8	2	
30-39.9	36	9.5	10.5	6	6	6	#8	2	
40-49.9	36	10	11	6	6	6	#8	2	
50-59.9	36	11	12	6	6	6	#8	2	
60-69.9	36	12.5	13.5	6	6	6	#8	2	
70-99.9	36	14.5	16	6	6	6	#8	2	
100-149.9	36	15.5	17.5	6	6	6	#8	2	
150-199.9	36	17	19.5	6	6	6	#8	2	
200-249.9	36	18.5	21	6	6	6	#8	2	
250-299.9	36	21.5	23	6	6	6	#8	2	
300-399.9	48	22.5	23.5	7.5	7.5	7.5	#8	2	
400-499.9	48	22.5	23.5	7.5	7.5	7.5	#8	2	
500-600	48	22.5	23.5	7.5	7.5	7.5	#8	2	

SUBSECTION: 03.13 LOOP INSTALLATION. REVISION: REPLACE FIRST SENTENCE NOTE WITH THE FOLLOWING:

TWIST UNSHIELDED LOOP WIRE (IMSA 51-7) WITH 3 TO 5 TURNS FROM THE START OF HOMERUN TO THE INSIDE CONDUIT, JUNCTION BOX, CABINET, OR POLE. TWIST UNSHIELDED LOOP WIRES (IMSA 51-7) WITH 3 TO 5 TURNS PER FOOT FROM THE START OF THE HOMERUN TO THE JUNCTION BOX, CABINET, OR POLE. SLOT CAN BE WIDEN TO 1/2" TO 5/8" TO HELP WITH THE INSTALLATION OF THE TWISTED WIRE.

SUBSECTION: 04.22 REMOVE SIGNAL EQUIPMENT. (CONSTRUCTION ONLY) REVISION: REPLACE THE PARAGRAPH WITH THE FOLLOWING:

THE DEPARTMENT WILL MEASURE THE QUANTITY BY EACH. THE DEPARTMENT WILL NOT MEASURE BACKFILLING AND THE DISPOSAL OR TRANSPORTATION OF EQUIPMENT AND MATERIALS ASSOCIATED WITH ANY STRUCTURAL OR ELECTRICAL COMPONENT OF THE SIGNAL SYSTEM INCLUDING, BUT NOT LIMITED TO POLE BASES, POLES, JUNCTION BOXES, CABINETS, AND WOOD POLES FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

COUNTY OF	ITEM NO.	SHEET NO.
CHRISTIAN	2-180.10	T1

DESIGNED BY: ADAM PROCTOR
DATE SUBMITTED: 9/13/2019

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF
CHRISTIAN

STP 600 (166)
PROJECT NUMBERS: FD25 024 0911 000-001

TRAFFIC SIGNAL
ESTIMATE OF QUANTITIES
MEASUREMENT, CONST, AND MISC NOTES

COUNTY OF	ITEM NO.	SHEET NO.
CHRISTIAN	2-180.10	T10

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND OTHER SPECIAL NOTES AND SPECIFICATIONS WILL APPLY ON THIS PROJECT. SEE SECTION 716 FOR MEASUREMENT AND OTHER DETAILS. SEE SECTION 602 FOR SPIRAL REINFORCEMENT SPLICING

THE CONTRACTOR SHALL MAKE AN INSPECTION OF THE PROJECT SITE PRIOR TO SUBMITTING A BID AND SHALL BE THOROUGHLY FAMILIARIZED WITH EXISTING CONDITIONS. SUBMISSIONS OF A BID WILL BE CONSIDERED AN AFFIRMATION OF THIS INSPECTION HAVING BEEN COMPLETED.

ADD SENTENCE TO SECTION 834.06: ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES : "PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 050I".

ADD SENTENCE TO SECTION 834.09: ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES: "PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 050I".

CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 716 AND 834

ROADWAY LIGHTING ESTIMATE OF QUANTITIES

TOTAL	UNITS	CODE	ITEM DESCRIPTION
2	EACH	4740	POLE BASE
2	EACH	4750	TRANSFORMER BASE
4	EACH	4780	FUSED CONNECTOR KIT
145	LIN FT	4795	CONDUIT 2 INCH
160	LIN FT	4832	WIRE-NO. 12
435	LIN FT	4833	WIRE-NO. 8
2	EACH	4942	REMOVE, STORE, AND REINSTALL POLE
145	LIN FT	21543EN	BORE AND JACK CONDUIT
1	LP SUM	4940	REMOVE LIGHTING

SUBSECTION:
REMOVE:

REVISION:

834.14.02 TRANSFORMER BASES.
REMOVE SENTENCE: CONSTRUCT THE DOOR OF A HIGH DENSITY POLYETHYLENE MATERIAL IN COLOR THAT MATCHES THE BASE.
REPLACE THE FOLLOWING SENTENCE WITH THE FOLLOWING:
CONSTRUCT THE DOOR OF AN ALUMINUM MATERIAL IN A COLOR THAT MATCHES THE BASE. THE DOOR SHOULD HAVE A THEFT DETERRENT DEVICE THAT IS EQUAL TO THE LOCKDOWN LIGHTLOCK DOOR ASSEMBLY. THE DOOR LOCK WILL HAVE A LOCKING DEVICE WITH A KYTC CUSTOM KEY THAT WILL BE SEND TO CENTRAL OFFICE TRAFFIC OPERATIONS FROM THE MANUFACTURER AND BE ISSUED TO THE CONTRACTOR FOR THE INSTALLATION OF THE FINAL DOOR DEVICE. THE KEY FOR THE DOOR SHALL BE RETURNED TO CENTRAL OFFICE TRAFFIC OPERATIONS AFTER THE CLOSURE OF THE CONTRACT. THERE SHALL BE A 4" BY 6" ARC FLASH WARNING STICKER INSTALLED CENTER TOP OF EACH DOOR. THE STICKER SHALL BE METALCRAFT PLY695 PREM STYLEMARK LABEL WITH .007 THICKNESS, WITH UV WHITE POLYCARBINATE MATERIAL, AND WITH MC53FL PRESSURE SENSITIVE ADHESIVE. THE STICKER SHALL HAVE TWO COLORS OF BLACK AND CUSTOM COLOR ORANGE. THE WORDING FOR THE ARC FLASH STICKER SHALL BE THE FOLLOWING: "WARNING ARC FLASH HAZARD. APPROPRIATE PPE REQUIRED. FAILURE TO COMPLY CAN RESULT IN DEATH OR INJURY. REFER TO NFPA 70E."

MEASUREMENT NOTE THAT ARE IN ADDITION TO SECTION 716:

REMOVE, STORE AND REINSTALL POLE- DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT REMOVED, STORE AND REINSTALLED. THE DEPARTMENT WILL NOT MEASURE WORK AND MATERIAL NECESSARY TO RELOCATE AN EXISTING LIGHTING STANDARD AND WILL CONSIDERED THIS INCIDENTAL TO THIS ITEM OF WORK.

WIRE OR CABLE SHALL INCLUDE INSTALLING SPECIFIED WIRE OR CABLE WITHIN CONDUIT AS INDICATED ON THE PLAN SHEETS. INCIDENTAL TO THIS ITEM SHALL BE THE FURNISHING AND INSTALLING OF SPLICE BOOTS OR ANY OTHER HARDWARE REQUIRED FOR INSTALLING CABLE. THE CONTRACTOR SHALL INSTALL ALL CABLE OR WIRE RUNS SPLICE-FREE FROM THE CONTROLLER TO EACH POLE THE CABLE OR WIRE IS FEEDING. EXCEPTIONS TO THIS MUST BE APPROVED BY THE ENGINEER OR AS SPECIFIED ON THE PLANS. THE CONTRACTOR WILL RECEIVE WIRE IN 1000 FOOT ROLLS FROM OUR WAREHOUSE. THE CONTRACTOR SHALL RETURN ALL EXCESS WIRE TO THE TRAFFIC BARN IN DISTRICT 12. IF THE WIRE SUPPLIED DOES NOT EQUAL ENOUGH SUITABLE TO INSTALL ALL RUNS SPLICE FREE, THE CONTRACTOR CAN ASK FOR MORE WIRE TO BE SUPPLIED BY THE DIVISION OF TRAFFIC OPERATIONS. THIS REQUEST SHALL GO THROUGH THE RESIDENT ENGINEER TO CENTRAL OFFICE DIVISION OF TRAFFIC OPERATIONS. EACH RUN OF WIRE FROM POLE TO POLE (UP EACH POLE) SHALL BE THE FOLLOWING COLOR CODED: 2-BLACK (HOT) AND GREEN (GROUND). THIS NOTE ONLY APPLIES TO BID CODES 23675EC AND 24474ED.

DESIGNED BY: ADAM PROCTOR
DATE SUBMITTED: 9/19/2019

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF
CHRISTIAN

PROJECT
NUMBERS: FD25 024 0911 000-001

ROADWAY LIGHTING ESTIMATES
OF QUANTITIES

COUNTY OF	ITEM NO.	SHEET NO.
CHRISTIAN	2-180.10	T10

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND OTHER SPECIAL NOTES AND SPECIFICATIONS WILL APPLY ON THIS PROJECT. SEE SECTION 716 FOR MEASUREMENT AND OTHER DETAILS. SEE SECTION 602 FOR SPIRAL REINFORCEMENT SPLICING

THE CONTRACTOR SHALL MAKE AN INSPECTION OF THE PROJECT SITE PRIOR TO SUBMITTING A BID AND SHALL BE THOROUGHLY FAMILIARIZED WITH EXISTING CONDITIONS. SUBMISSIONS OF A BID WILL BE CONSIDERED AN AFFIRMATION OF THIS INSPECTION HAVING BEEN COMPLETED.

ADD SENTENCE TO SECTION 834.06: ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES : "PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 0501".

ADD SENTENCE TO SECTION 834.09: ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES: "PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 0501".

CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 716 AND 834

834.14.02 TRANSFORMER BASES.
 REMOVE SENTENCE: CONSTRUCT THE DOOR OF A HIGH DENSITY POLYETHYLENE MATERIAL IN COLOR THAT MATCHES THE BASE.
 REPLACE THE FOLLOWING SENTENCE WITH THE FOLLOWING:
 CONSTRUCT THE DOOR OF AN ALUMINUM MATERIAL IN A COLOR THAT MATCHES THE BASE. THE DOOR SHOULD HAVE A THEFT DETERRENT DEVICE THAT IS EQUAL TO THE LOCKDOWN LIGHTLOCK DOOR ASSEMBLY. THE DOOR LOCK WILL HAVE A LOCKING DEVICE WITH A KYTC CUSTOM KEY THAT WILL BE SEND TO CENTRAL OFFICE TRAFFIC OPERATIONS FROM THE MANUFACTURER AND BE ISSUED TO THE CONTRACTOR FOR THE INSTALLATION OF THE FINAL DOOR DEVICE. THE KEY FOR THE DOOR SHALL BE RETURNED TO CENTRAL OFFICE TRAFFIC OPERATIONS AFTER THE CLOSURE OF THE CONTRACT. THERE SHALL BE A 4" BY 6" ARC FLASH WARNING STICKER INSTALLED CENTER TOP OF EACH DOOR. THE STICKER SHALL BE METALCRAFT PLY695 PREM STYLEMARK LABEL WITH .007 THICKNESS, WITH UV WHITE POLYCARBINATE MATERIAL, AND WITH MC53FL PRESSURE SENSITIVE ADHESIVE. THE STICKER SHALL HAVE TWO COLORS OF BLACK AND CUSTOM COLOR ORANGE. THE WORDING FOR THE ARC FLASH STICKER SHALL BE THE FOLLOWING: "WARNING ARC FLASH HAZARD. APPROPRIATE PPE REQUIRED. FAILURE TO COMPLY CAN RESULT IN DEATH OR INJURY. REFER TO NFPA 70E."

SUBSECTION:
 REMOVE:

REVISION:

MEASUREMENT NOTE THAT ARE IN ADDITION TO SECTION 716:

REMOVE, STORE AND REINSTALL POLE- DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT REMOVED, STORE AND REINSTALLED. THE DEPARTMENT WILL NOT MEASURE WORK AND MATERIAL NECESSARY TO RELOCATE AN EXISTING LIGHTING STANDARD AND WILL CONSIDERED THIS INCIDENTAL TO THIS ITEM OF WORK.

WIRE OR CABLE SHALL INCLUDE INSTALLING SPECIFIED WIRE OR CABLE WITHIN CONDUIT AS INDICATED ON THE PLAN SHEETS. INCIDENTAL TO THIS ITEM SHALL BE THE FURNISHING AND INSTALLING OF SPLICE BOOTS OR ANY OTHER HARDWARE REQUIRED FOR INSTALLING CABLE. THE CONTRACTOR SHALL INSTALL ALL CABLE OR WIRE RUNS SPLICE-FREE FROM THE CONTROLLER TO EACH POLE THE CABLE OR WIRE IS FEEDING. EXCEPTIONS TO THIS MUST BE APPROVED BY THE ENGINEER OR AS SPECIFIED ON THE PLANS. THE CONTRACTOR WILL RECEIVE WIRE IN 1000 FOOT ROLLS FROM OUR WAREHOUSE. THE CONTRACTOR SHALL RETURN ALL EXCESS WIRE TO THE TRAFFIC BARN IN DISTRICT 12. IF THE WIRE SUPPLIED DOES NOT EQUAL ENOUGH SUITABLE TO INSTALL ALL RUNS SPLICE FREE, THE CONTRACTOR CAN ASK FOR MORE WIRE TO BE SUPPLIED BY THE DIVISION OF TRAFFIC OPERATIONS. THIS REQUEST SHALL GO THROUGH THE RESIDENT ENGINEER TO CENTRAL OFFICE DIVISION OF TRAFFIC OPERATIONS. EACH RUN OF WIRE FROM POLE TO POLE (UP EACH POLE) SHALL BE THE FOLLOWING COLOR CODED: 2-BLACK (HOT) AND GREEN (GROUND). THIS NOTE ONLY APPLIES TO BID CODES 23675EC AND 24474ED.

ROADWAY LIGHTING ESTIMATE OF QUANTITIES

TOTAL	UNITS	CODE	ITEM DESCRIPTION
2	EACH	4740	POLE BASE
2	EACH	4750	TRANSFORMER BASE
4	EACH	4780	FUSED CONNECTOR KIT
145	LIN FT	4795	CONDUIT 2 INCH
160	LIN FT	4832	WIRE-NO. 12
435	LIN FT	4833	WIRE-NO. 8
2	EACH	4942	REMOVE, STORE, AND REINSTALL POLE
445	LIN FT	21543EN	REMOVE AND JACK CONDUIT
1	LP SUM	4940	REMOVE LIGHTING

REVISED 10/16/2019

GENERAL SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
CHRISTIAN	2-180.10	R2B

ITEM	DESCRIPTION	UNIT	KY 911																	PROJECT TOTAL
1810	STANDARD CURB AND GUTTER	LF	3434																	3434
1892	ISLAND HEADER CURB TYPE I - MODIFIED	LF	154																	154
2014	BARRICADE-TYPE III	EA	3																	3
2091	REMOVE PAVEMENT	SO YD	41																	41
2159	TEMP DITCH	LF	1128																	1128
2160	CLEAN TEMP DITCH	LF	564																	564
2200	ROADWAY EXCAVATION ①	CU YDS	14688																	14688
2360	GUARDRAIL TERMINAL SECTION NO 1	EA	1																	1
2381	REMOVE GUARDRAIL	LF	350																	350
2395	REMOVE GUARDRAIL TERMINAL SECT	EA	1																	1
2242	WATER ⑥	MGAL	213																	213
2429	ROW MONUMENT TYPE I	EA	7																	7
2432	WITNESS POST	EA	3																	3
2545	CLEARING AND GRUBBING ③	LS	1																	1
2555	CONCRETE-CLASS B ⑤	CU YDS	15																	15
2562	TEMPORARY SIGNS	SO FT	256																	256
2568	MOBILIZATION	LS	1																	1
2569	DEMOBILIZATION	LS	1																	1
2585	EDGE KEY	LF	416																	416
2599	FABRIC-GEOTEXTILE TYPE IV	SO YD	29984																	29984
2600	FABRIC-GEOTEXTILE FOR PIPES ②	SO YD	3430																	3430
2650	MAINTAIN AND CONTROL TRAFFIC	LS	1																	1
2690	SAFELOADING	CU YDS	13																	13
2701	TEMP SILT FENCE	LF	1128																	1128
2703	SILT TRAP TYPE A	EA	9																	9
2704	SILT TRAP TYPE B	EA	9																	9
2705	SILT TRAP TYPE C	EA	9																	9
2706	CLEAN SILT TRAP TYPE A	EA	9																	9
2707	CLEAN SILT TRAP TYPE B	EA	9																	9
2708	CLEAN SILT TRAP TYPE C	EA	9																	9
2720	SIDEWALK 4 IN	SO YD	1920																	1920
2726	STAKING	LS	1																	1
5950	EROSION CONTROL BLANKET ④	SO YD	1463																	1463
5952	TEMP MULCH	SO YD	26395																	26395
5953	TEMP SEEDING AND PROTECTION	SO YD	19796																	19796
5963	INITIAL FERTILIZER	TON	0.66																	0.66
5964	MAINTENANCE FERTILIZER	TON	1.10																	1.10
5985	SEEDING AND PROTECTION	SO YD	17732																	17732
5990	SODDING	SO YD	2152																	2152
5992	AGRICULTURAL LIMESTONE	TON	13.23																	13.23
6510	PAVE STRIPING-TEMP PAINT-4IN	LF	13652																	13652
6514	PAVE STRIPING-PERM PAINT-4IN	LF	12270																	12270
6516	PAVE STRIPING-PERM PAINT-8IN	LF	201																	201
6530	PAVE STRIPING REMOVAL-4 IN ⑦	LF	2595																	2595
6563	PAVE MARKING-R/R XBUCKS 16 IN ⑧	LF	40																	40
6565	PAVE MARKING-THERMO X-WALK - 6 IN	LF	419																	419
6568	PAVE MARKING-THERMO STOP BAR-24IN	LF	265																	265
6572	PAVE MARKING-DOTTED LANE EXTEN	LF	661																	661
6574	PAVE MARKING THERMO CURVE ARROW	EA	13																	13
6575	PAVE MARKING THERMO COMB ARROW	EA	2																	2
6576	PAVE MARKING THERMO ONLY	EA	1																	1
6585	PAVEMENT MARKER TY IVA-MW TEMP	EA	372																	372
6588	PAVEMENT MARKER TY IVA-BY TEMP	EA	177																	177
24489EC	INLAID PAVEMENT MARKER	EA	12																	12
8001	STRUCTURE EXCAVATION COMMON ⑤	CU YDS	7																	7
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EA	3																	3
21289ED	LONGITUDINAL EDGE KEY	LF	520																	520
24814EC	PIPELINE INSPECTION ②	LF	2349																	2349
23158ES05	DETECTABLE WARNINGS	SO FT	301																	301
20430ED	SAW CUT	LF	52																	52
10020NS	FUEL ADJUSTMENT	DOLL	21374																	21374
10030NS	ASPHALT ADJUSTMENT	DOLL	29736																	29736

GENERAL SUMMARY

NOTES:

- ① COMMON 14688 CUYD EMBANKMENT 2851 CUYD ESTIMATE FOR EARTHWORK CALCULATIONS ONLY. THE CONTRACTOR IS ADVISED THAT THE EARTHWORK CALCULATIONS SHOWN ARE FOR INFORMATION ONLY. ASSUMPTIONS FOR SHRINKAGE AND SWELL FACTORS ARE THE CONTRACTOR'S RESPONSIBILITY
- ② INCLUDES QUANTITIES FOR MAINLINE FOR WRAPPING PIPE TRENCH BACKFILL.
- ③ APPX. 8.180 ACRES. ALL REMOVALS INSIDE DIST. LIMITS INCIDENTAL TO ITEM 2545
- ④ 159 SQ YDS FOR DITCHES 1304 SQ YDS TO BE USED AT THE ENGINEER'S DISCRETION FOR EROSION CONTROL
- ⑤ FOR GRAVITY WALL.
- ⑥ FOR DUST CONTROL DURING MOT
- ⑦ REMOVAL OF CONFLICTING EXISTING MARKINGS FOR MAINTENANCE OF TRAFFIC PURPOSES. CONTRACTOR TO REMOVE ANY CONFLICTING MARKINGS INSTALLED WITH CONSTRUCTION PHASING AT NO COST TO KYTC. REMOVAL OF EXITING TURN ARROWS AND STOP BARS IS INCIDENTAL TO BID ITEM 6530.
- ⑧ LETTERING IS INCIDENTAL TO ITEM 6563.

ALL STORM PIPES TO BE REMOVED UNLESS OTHERWISE SHOWN ON PLANS. CONTRARY TO STANDARD SPECIFICATIONS, THE REMOVAL OF PIPE & HEADWALLS IS INCIDENTAL TO ITEM 2545 WHETHER SHOWN AS REMOVE OR NOT.

GENERAL SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
CHRISTIAN	2-180.10	R2B

ITEM	DESCRIPTION	UNIT	KY 911																	PROJECT TOTAL
1810	STANDARD CURB AND GUTTER	LF	3434																	3434
1892	ISLAND HEADER CURB TYPE I - MODIFIED	LF	154																	154
2014	BARRICADE-TYPE III	EA	3																	3
2091	REMOVE PAVEMENT	SO YD	41																	41
2159	TEMP DITCH	LF	1128																	1128
2160	CLEAN TEMP DITCH	LF	564																	564
2200	ROADWAY EXCAVATION ①	CU YDS	14688																	14688
2360	GUARDRAIL TERMINAL SECTION NO 1	EA	1																	1
2381	REMOVE GUARDRAIL	LF	350																	350
2395	REMOVE GUARDRAIL TERMINAL SECT	EA	1																	1
2242	WATER ⑥	MGAL	213																	213
2429	ROW MONUMENT TYPE I	EA	7																	7
2432	WITNESS POST	EA	3																	3
2545	CLEARING AND GRUBBING ③	LS	1																	1
2555	CONCRETE-CLASS B ⑤	CU YDS	15																	15
2562	TEMPORARY SIGNS	SO FT	256																	256
2568	MOBILIZATION	LS	1																	1
2569	DEMOBILIZATION	LS	1																	1
2585	EDGE KEY	LF	416																	416
2599	FABRIC-GEOTEXTILE TYPE IV	SO YD	29984																	29984
2600	FABRIC-GEOTEXTILE FOR PIPES ②	SO YD	3430																	3430
2650	MAINTAIN AND CONTROL TRAFFIC	LS	1																	1
2690	SAFELOADING	CU YDS	13																	13
2701	TEMP SILT FENCE	LF	1128																	1128
2703	SILT TRAP TYPE A	EA	9																	9
2704	SILT TRAP TYPE B	EA	9																	9
2705	SILT TRAP TYPE C	EA	9																	9
2706	CLEAN SILT TRAP TYPE A	EA	9																	9
2707	CLEAN SILT TRAP TYPE B	EA	9																	9
2708	CLEAN SILT TRAP TYPE C	EA	9																	9
2720	SIDEWALK 4 IN	SO YD	1920																	1920
2726	STAKING	LS	1																	1
5950	EROSION CONTROL BLANKET ④	SO YD	1463																	1463
5952	TEMP MULCH	SO YD	26395																	26395
5953	TEMP SEEDING AND PROTECTION	SO YD	19796																	19796
5963	INITIAL FERTILIZER	TON	0.66																	0.66
5964	MAINTENANCE FERTILIZER	TON	1.10																	1.10
5985	SEEDING AND PROTECTION	SO YD	17732																	17732
5990	SODDING	SO YD	2152																	2152
5992	AGRICULTURAL LIMESTONE	TON	13.23																	13.23
6510	PAVE STRIPING-TEMP PAINT-4IN	LF	13652																	13652
6514	PAVE STRIPING-PERM PAINT-4IN	LF	12270																	12270
6516	PAVE STRIPING-PERM PAINT-8IN	LF	201																	201
6530	PAVE STRIPING REMOVAL-4 IN ⑦	LF	2595																	2595
6563	PAVE MARKING-R/R XBUCKS 16 IN ⑧	LF	40																	40
6565	PAVE MARKING-THERMO X-WALK - 6 IN	LF	419																	419
6568	PAVE MARKING-THERMO STOP BAR-24IN	LF	265																	265
6572	PAVE MARKING-DOTTED LANE EXTEN	LF	661																	661
6574	PAVE MARKING THERMO CURVE ARROW	EA	13																	13
6575	PAVE MARKING THERMO COMB ARROW	EA	2																	2
6576	PAVE MARKING THERMO ONLY	EA	1																	1
6585	PAVEMENT MARKER TY IVA-MW TEMP	EA	372																	372
6588	PAVEMENT MARKER TY IVA-BY TEMP	EA	177																	177
24489EC	INLAID PAVEMENT MARKER	EA	12																	12
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EA	3																	3
24285ED	LENGTH ADJUSTMENT	LF	520																	520
24814EC	PIPELINE INSPECTION ②	LF	2349																	2349
23158ES505	DETECTABLE WARNINGS	SO FT	301																	301
20430ED	SAW CUT	LF	52																	52
10020NS	FUEL ADJUSTMENT	DOLL	21374																	21374
10030NS	ASPHALT ADJUSTMENT	DOLL	29736																	29736

NOTES:

- ① COMMON 14688 CUYD EMBANKMENT 2851 CUYD ESTIMATE FOR EARTHWORK CALCULATIONS ONLY. THE CONTRACTOR IS ADVISED THAT THE EARTHWORK CALCULATIONS SHOWN ARE FOR INFORMATION ONLY. ASSUMPTIONS FOR SHRINKAGE AND SWELL FACTORS ARE THE CONTRACTOR'S RESPONSIBILITY
- ② INCLUDES QUANTITIES FOR MAINLINE FOR WRAPPING PIPE TRENCH BACKFILL.
- ③ APPX. 8.180 ACRES. ALL REMOVALS INSIDE DIST. LIMITS INCIDENTAL TO ITEM 2545
- ④ 159 SQ YDS FOR DITCHES 1304 SQ YDS TO BE USED AT THE ENGINEER'S DISCRETION FOR EROSION CONTROL
- ⑤ FOR GRAVITY WALL.
- ⑥ FOR DUST CONTROL DURING MOT
- ⑦ REMOVAL OF CONFLICTING EXISTING MARKINGS FOR MAINTENANCE OF TRAFFIC PURPOSES. CONTRACTOR TO REMOVE ANY CONFLICTING MARKINGS INSTALLED WITH CONSTRUCTION PHASING AT NO COST TO KYTC. REMOVAL OF EXITING TURN ARROWS AND STOP BARS IS INCIDENTAL TO BID ITEM 6530.
- ⑧ LETTERING IS INCIDENTAL TO ITEM 6563.

ALL STORM PIPES TO BE REMOVED UNLESS OTHERWISE SHOWN ON PLANS. CONTRARY TO STANDARD SPECIFICATIONS, THE REMOVAL OF PIPE & HEADWALLS IS INCIDENTAL TO ITEM 2545 WHETHER SHOWN AS REMOVE OR NOT.

GENERAL SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
CHRISTIAN	2-180.10	R2E

GENERAL NOTES

N.G.S. (U.S.G.S.) BENCH MARKS

DO NOT DISTURB N.G.S. (U.S.G.S.) BENCH MARKS IN ANY MANNER UNLESS DIRECTED BY THE ENGINEER.
BEFORE YOU DIG

THE CONTRACTOR IS INSTRUCTED TO CALL 1-800-752-6007 TO REACH KY 811, THE ONE-CALL SYSTEM FOR INFORMATION ON THE LOCATION OF EXISTING UNDERGROUND UTILITIES. THE CALL IS TO BE PLACED A MINIMUM TWO (2) AND NO MORE THAN TEN (10) BUSINESS DAYS PRIOR TO THE EXCAVATION. THE CONTRACTOR SHOULD BE AWARE THAT OWNERS OF UNDERGROUND FACILITIES ARE NOT REQUIRED TO CONMEMBER OF THE KY 811 ONE-CALL BEFORE-DIG SERVICE. THE CONTRACTOR MUST COORDINATE EXCAVATION WITH THE CALL BEFORE-DIG SERVICE. THOSE WHOM DO NOT SUBSCRIBE TO KY 811 MAY BE NECESSARY FOR THE CONTRACTOR TO CONTACT THE COUNTY CLERK TO DETERMINE WHAT UTILITY COMPANIES HAVE FACILITIES IN THE AREA.

DEPARTMENT OF THE ARMY PERMIT AND WATER QUALITY CERTIFICATION APPROVALS

A DEPARTMENT OF THE ARMY (DA) PERMIT, WHICH MAY REQUIRE APPROVAL OF A STATE WATER QUALITY CERTIFICATION FROM THE KENTUCKY DIVISION OF WATER POLLUTION, THIS PROJECT AT ONE OR MORE LOCATIONS. PERFORM ALL APPLICABLE WORK IN COMPLIANCE WITH THE CONDITIONS STATED IN THE DA PERMIT AND THE APPROVED WATER QUALITY CERTIFICATION. POST A COPY OF THE DA PERMIT AND THE WATER QUALITY CERTIFICATION IN A CONSPICUOUS PLACE AT THE PROJECT SITE. IF A DA PERMIT OR WATER QUALITY CERTIFICATION APPROVAL IS PENDING, DO NOT WORK IN OR DISTURB THE DESIGNATED AREAS UNTIL OBTAINING THE APPROPRIATE APPROVALS. REFER TO NOTICES CONTAINED IN THE CONTRACT BID PROPOSAL FOR DESIGNATED AREAS WHERE WORK IS PROHIBITED BY THE ABSENCE OF APPROVAL.

WINTER CLOSURE

ANY ASPHALT CONCRETE BASE AND/OR SURFACE COURSE USED AS A RIDING SURFACE EXPOSED TO TRAFFIC DURING WINTER CLOSURE PERIODS SHALL CONTAIN NATURAL CONGLOMERATE CRUSHED SLAG, CRUSHED GRANITE OR CRUSHED SANDSTONE SAND IN THE PROPORTION OF NO LESS THAN 25% OF THE TOTAL COMBINED COARSE AND FINE AGGREGATE.

ASPHALT PAVEMENT RIDE QUALITY

PAVEMENT RIDEABILITY REQUIREMENTS, IN ACCORDANCE WITH SECTION 410 OF THE STANDARD SPECIFICATIONS, SHALL APPLY ON THIS PROJECT. CATEGORY B SHALL APPLY.

COMPACTION OF ASPHALT MIXTURES

WILL ACCEPT THE COMPACTION OF ASPHALT MIXTURES FURNISHED FOR DRIVING LANES AND RAMPS AT ONE (1) INCH (25 MM) OR GREATER ON THIS PROJECT BY OPTION A ACCORDING TO SUBSECTIONS 402 AND 403 OF THE CURRENT STANDARD SPECIFICATIONS. JOINT CORES AS DESCRIBED IN SUBSECTION 402.03.02 FOR SURFACE MIXTURES ONLY. WILL ACCEPT THE COMPACTION OF ALL OTHER ASPHALT MIXTURES BY OPTION B.

EDGE KEY

THIS WORK INCLUDES CUTTING OUT THE EXISTING ASPHALT SURFACE TO A MINIMUM DEPTH AND WIDTH AS DETAILED ELSEWHERE IN THE PLANS SO THAT THE NEW SURFACE MAY HEEL INTO THE EXISTING SURFACE. THE CONTRACT UNIT PRICE BID LINEAR FOOT (PER METER) FOR "EDGE KEY" INCLUDES ALL NECESSARY MATERIALS, LABOR AND EQUIPMENT NECESSARY TO PERFORM THE WORK AND DISPOSE OF THE REMOVED ASPHALT MATERIAL.

STANDARD DRAWINGS

STANDARD DRAWINGS ARE NOT ATTACHED TO THESE PLANS. A STANDARD DRAWING BOOK AND THE HEADWALL SUPPLEMENTAL BOOK MAY BE OBTAINED FROM THE POLICY SUPPORT BRANCH OF THE DEPARTMENT OF ADMINISTRATIVE SERVICES IN FRANKFORT, KY, AT (502) 564-4610

EXISTING LANDSCAPE MATERIAL

DO NOT DISTURB LANDSCAPE PLANTS UNLESS ABSOLUTELY NECESSARY.
DO NOT TO DISTURB ANY PLANTS WITHOUT PRIOR APPROVAL OF THE PROJECT ENGINEER.
THE PROJECT ENGINEER SHALL NOTIFY THE DISTRICT AGRONOMIST FOR POSSIBLE DEPARTMENT SALVAGE OF ANY PLANTS NEEDING REMOVAL.

SPECIAL NOTES

PROPOSAL ATTACHMENTS:

SPECIAL NOTE FOR PORTABLE CHANGEABLE MESSAGE SIGNS.

FILE NAME: I:\EX\PRJ\000002482\DESIGN\PLANSET\5LANE\PLAN AND PROFILES\R0020E0N_5 LANE.DGN

DATE PLOTTED: October 15, 2019
USER: BCO0M5
E-SHEET NAME: R0020E0N

MicroStation v8.11.9.832

GENERAL & SPECIAL NOTES

COUNTY OF	ITEM NO.	SHEET NO.
CHRISTIAN	2-180.10	R2E

GENERAL NOTES

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ASPHALT PAVEMENT RIDE QUALITY

PAVEMENT RIDEABILITY REQUIREMENTS, IN ACCORDANCE WITH SECTION 410 OF THE STANDARD SPECIFICATIONS, SHALL APPLY ON THIS PROJECT. CATEGORY B SHALL APPLY.

COMPACTION OF ASPHALT MIXTURES

WILL ACCEPT THE COMPACTION OF ASPHALT MIXTURES FURNISHED FOR DRIVING LANES AND RAMPS AT ONE INCH (25 MM) OR GREATER ON THIS PROJECT BY OPTION A ACCORDING TO SUBSECTIONS 402 AND 403 OF THE CURRENT STANDARD SPECIFICATIONS. USE JOINT CORES AS DESCRIBED IN SUBSECTION 402.03.02 FOR SURFACE MIXTURES ONLY. WILL ACCEPT THE COMPACTION OF ALL OTHER ASPHALT MIXTURES BY OPTION B.

EDGE KEY

THIS WORK INCLUDES CUTTING OUT THE EXISTING ASPHALT SURFACE TO A MINIMUM DEPTH AND WIDTH AS DETAILED ELSEWHERE IN THE PLANS SO THAT THE NEW SURFACE MAY HEEL INTO THE EXISTING SURFACE. THE CONTRACT UNIT PRICE BID LINEAR FOOT (PER METER) FOR "EDGE KEY" INCLUDES ALL NECESSARY MATERIALS, LABOR AND EQUIPMENT NECESSARY TO PERFORM THE WORK AND DISPOSE OF THE REMOVED ASPHALT MATERIAL.

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SPECIAL NOTES

PROPOSAL ATTACHMENTS:
SPECIAL NOTE FOR PORTABLE CHANGEABLE MESSAGE SIGNS.

ITEM NO.	DESCRIPTION	UNIT	CONSTRUCTION SEQUENCE			MAX REQ'D	
			PHASE 1	PHASE 2A	PHASE 2B		PHASE 3
			2014	BARRICADE-TYPE III	EA		-
2562	TEMPORARY SIGNS	SOFT	137.5	78	40.5	-	256
2650	MAINTAIN AND CONTROL TRAFFIC	LS	1	-	-	-	1
6510	PAVE STRIPING-TEMP PAINT-4 IN	LF	3316	-	10336	-	13652
6585	PAVEMENT MARKER TY IVA-NW TEMP	EA	68	-	304	-	372
6588	PAVEMENT MARKER TY IVA-BY TEMP	EA	60	-	117	-	177
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EA	-	3	-	-	3

BID ITEMS

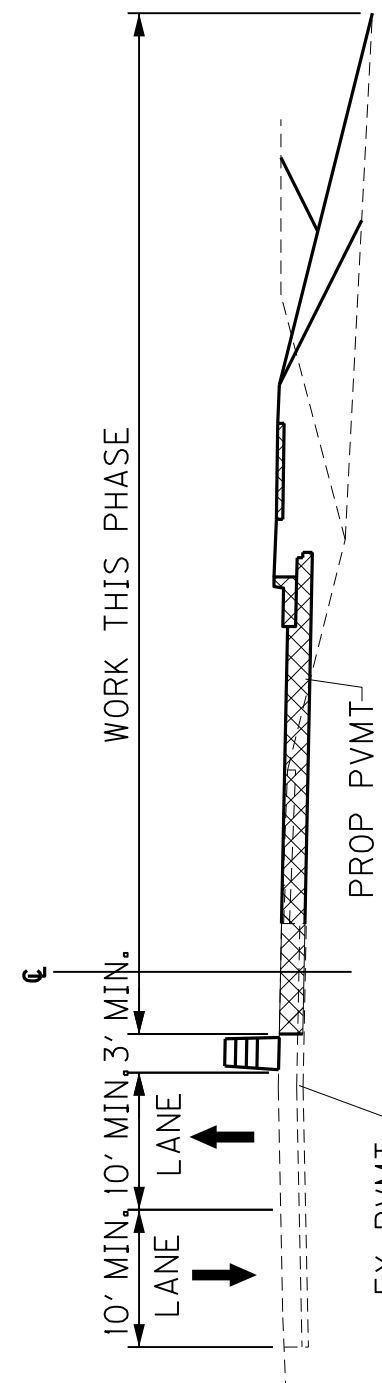
PHASING PLAN

- PHASE 1
 CONSTRUCTION
- CONSTRUCT NECESSARY DRAINAGE TIE-INS MAINTAINING ONE LANE OF TRAFFIC AT ALL TIMES.
 CONSTRUCT THE KY 911 SOUTHERN WIDENING AND CORRESPONDING SIDEWALK AND CURB AND GUTTER,
 EXCEPT FINAL SURFACE COURSE.
- TRAFFIC
- MAINTAIN ENTRANCES, COORDINATE DRIVEWAY CLOSURES WITH PROPERTY OWNERS.
 CLOSE US 41A NORTHBOUND RIGHT TURN LANE TO CONSTRUCT ADJACENT TO US 41A
- PHASE 2
 CONSTRUCTION
- CONSTRUCT NECESSARY DRAINAGE TIE-INS MAINTAINING ONE LANE OF TRAFFIC AT ALL TIMES.
 CONSTRUCT KY 911 TRANSITION I17+00 TO PROJECT END. FULL DEPTH PAVEMENT REPLACEMENT WILL BE BEHIND
 BARRELS. MILLING AND SURFACE PAVING WILL REQUIRE 4 HOUR ROAD CLOSURE TO BE COORDINATED WITH THE
 ENGINEER AND LOCAL EMERGENCY RESPONDERS. SEE MOT CROSS-SECTIONS FOR ADDITIONAL INFORMATION.
- PHASE 2B
 CONSTRUCT NECESSARY DRAINAGE TIE-INS MAINTAINING ONE LANE OF TRAFFIC AT ALL TIMES.
 CONSTRUCT THE KY 911 NORTHERN WIDENING, AND CORRESPONDING SIDEWALK AND CURB AND GUTTER,
 EXCEPT FINAL SURFACE COURSE.

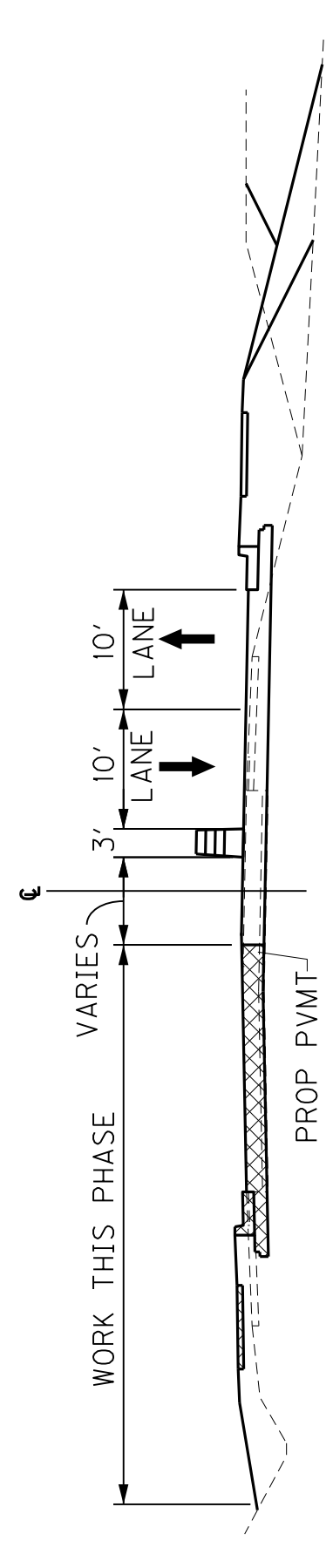
GENERAL NOTES

- TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE STANDARD DRAWINGS, CURRENT EDITIONS.
- EXCEPT FOR THE ROADWAY AND TRAFFIC CONTROL BID ITEMS LISTED, ALL ITEMS OF WORK NECESSARY TO MAINTAIN AND CONTROL TRAFFIC WILL BE PAID AT THE LUMP SUM BID PRICE TO "MAINTAIN AND CONTROL TRAFFIC" AS SET FORTH IN THE CURRENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION UNLESS OTHERWISE PROVIDED FOR IN THESE NOTES. THE LUMP SUM BID TO "MAINTAIN AND CONTROL TRAFFIC" SHALL ALSO INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS AND OPERATIONS:
 - ALL GRADING AND NECESSARY DRAINAGE (UNLESS A BID ITEM FOR DETOUR CONSTRUCTION IS INCLUDED) FOR THE TEMPORARY ROADWAY AND REMOVAL THEREOF, WHEN IT IS NO LONGER NEEDED. IF A BID ITEM FOR DETOUR CONSTRUCTION IS INCLUDED, GRADING AND DRAINAGE WILL BE PAID FOR IN THE BID ITEM "DETOUR CONSTRUCTION".
 - ALL LABOR AND MATERIALS NECESSARY FOR CONSTRUCTION AND MAINTENANCE OF TRAFFIC CONTROL DEVICES AND MARKINGS.
 - ALL FLAGPERSONS AND TRAFFIC CONTROL DEVICES SUCH AS, BUT NOT LIMITED TO, FLASHERS, SIGNS BARRICADES AND VERTICAL PANELS, PLASTIC DRUMS (STEEL DRUMS WILL NOT BE PERMITTED) AND CONES NECESSARY FOR THE CONTROL AND PROTECTION OF VEHICULAR AND PEDESTRIAN TRAFFIC AS SPECIFIED IN THESE NOTES, THE PLANS, THE MUTCD OR THE ENGINEER.
- ANY TEMPORARY TRAFFIC CONTROL ITEMS, DEVICES, MATERIALS AND INCIDENTALS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR WHEN NO LONGER NEEDED.
- THE CONTRACTOR SHALL MAINTAIN A TWO-LANE TRAVELED WAY WITH A MINIMUM LANE WIDTH OF 10 FEET. HOWEVER, DURING WORKING HOURS, ONE-WAY TRAFFIC MAY BE ALLOWED AT THE DISCRETION OF THE ENGINEER, PROVIDED ADEQUATE SIGNING AND A FLAGPERSON ARE AT THE LOCATION.
- THE CONTRACTOR SHALL COMPLETELY COVER ANY SIGNS, EITHER EXISTING, PERMANENT OR TEMPORARY, WHICH DO NOT PROPERLY APPLY TO THE CURRENT TRAFFIC PHASING, AND SHALL MAINTAIN THE COVERING UNTIL THE SIGNS ARE APPLICABLE OR ARE REMOVED.
- IN GENERAL, ALL TRAFFIC CONTROL DEVICES SHALL BE PLACED STARTING AND PROCEEDING IN THE DIRECTION OF THE FLOW OF TRAFFIC AND REMOVED STARTING AND PROCEEDING IN THE DIRECTION OPPOSITE THE FLOW OF TRAFFIC.
- THE ENGINEER AND THE CONTRACTOR, OR THEIR AUTHORIZED REPRESENTATIVES, SHALL REVIEW THE SIGNING BEFORE TRAFFIC IS ALLOWED TO USE ANY LANE CLOSURES, CROSSEOVERS OR DETOURS. ALL SIGNING SHALL BE APPROVED BY THE ENGINEER BEFORE WORK CAN BE STARTED BY THE CONTRACTOR.
- IF THE CONTRACTOR DESIRES TO DEVIATE FROM THE TRAFFIC CONTROL SCHEME AND CONSTRUCTION SCHEDULE OUTLINED IN THESE PLANS AND THIS PROPOSAL, HE SHALL PREPARE AN ALTERNATE PLAN AND PRESENT IT IN WRITING TO THE ENGINEER. THIS ALTERNATE PLAN CAN BE USED ONLY AFTER REVIEW AND APPROVAL OF THE DIVISIONS OF TRAFFIC, DESIGN AND CONSTRUCTION, AND THE FEDERAL HIGHWAY ADMINISTRATION, WHERE APPLICABLE.
- IF TRAFFIC SHOULD BE STOPPED DUE TO CONSTRUCTION OPERATIONS AND AN EMERGENCY VEHICLE ON AN OFFICIAL EMERGENCY RUN ARRIVES AT THE SCENE, THE CONTRACTOR SHALL MAKE THE PROVISIONS FOR THE PASSAGE OF THAT VEHICLE AS QUICKLY AS POSSIBLE.
- ALL SIGNS NECESSARY FOR A MARKED DETOUR WILL BE PROVIDED BY THE CONTRACTOR AS REQUIRED BY STANDARD DRAWINGS AND THE MUTCD. SIGNS OUTSIDE THE PROJECT LIMITS SHALL BE PAID FOR BY THE SQUARE FOOT. THIS QUANTITY SHALL INCLUDE SIGN MOUNTING HARDWARE AND POSTS.

TYPE	DIMENSIONS	AREA SQ. FT.	SIGNING SUMMARY				NO. OF SIGNS REQ'D	TOTAL AREA SQ. FT.
			PHASE 1	PHASE 2A	PHASE 2B	PHASE 3		
G20-2	36"X18"	4.5	3	-	1	-	4	18
G20-5QP	24"X18"	3	2	-	-	-	2	6
R2-1	24"X30"	5	2	-	-	-	2	10
W3-4	36"X36"	9	-	2	-	-	2	18
W4-2	36"X36"	9	-	-	1	-	1	9
W16-2P	24"X18"	3	-	2	-	-	2	6
W20-1	36"X36"	9	12	-	1	-	13	117
W20-4	36"X36"	9	-	4	-	-	4	36
W20-5	36"X36"	9	-	-	2	-	2	18
W20-7	36"X36"	9	-	2	-	-	2	18



KY 911 MOT PHASE 1

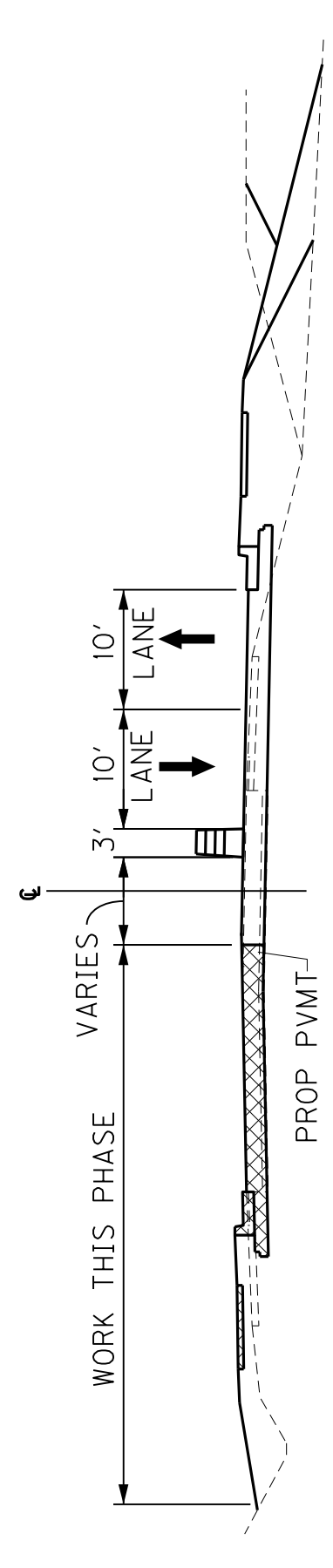


KY 911 MOT PHASE 2B

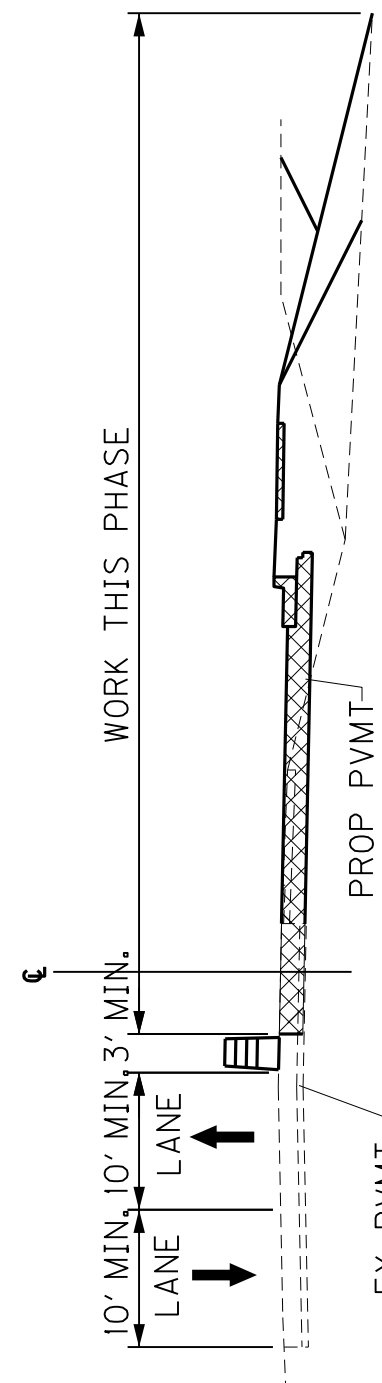
ITEM NO.	DESCRIPTION	UNIT	CONSTRUCTION SEQUENCE			MAX REQ'D
			PHASE 1	PHASE 2A	PHASE 2B	
2014	BARRICADE-TYPE III	EA	-	-	3	3
2562	TEMPORARY SIGNS	SOFT	137.5	78	40.5	256
2650	MAINTAIN AND CONTROL TRAFFIC	LS	1	-	-	1
6510	PAVE STRIPING-TEMP PAINT-4 IN	LF	3316	-	10336	13652
6585	PAVEMENT MARKER TY IVA-NW TEMP	EA	68	-	304	372
6608	PAVEMENT MARKER TY IVB-NW TEMP	EA	68	-	304	372
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EA	-	3	-	3

PHASING PLAN

- PHASE 1**
 CONSTRUCTION
- CONSTRUCT NECESSARY DRAINAGE TIE-INS MAINTAINING ONE LANE OF TRAFFIC AT ALL TIMES.
 CONSTRUCT THE KY 911 SOUTHERN WIDENING AND CORRESPONDING SIDEWALK AND CURB AND GUTTER,
 EXCEPT FINAL SURFACE COURSE.
- TRAFFIC**
- MAINTAIN ENTRANCES, COORDINATE DRIVEWAY CLOSURES WITH PROPERTY OWNERS.
 CLOSE US 41A NORTHBOUND RIGHT TURN LINE TO CONSTRUCT ADJACENT TO US 41A
- PHASE 2**
 CONSTRUCTION
- CONSTRUCT NECESSARY DRAINAGE TIE-INS MAINTAINING ONE LANE OF TRAFFIC AT ALL TIMES.
 CONSTRUCT KY 911 TRANSITION I17+00 TO PROJECT END. FULL DEPTH PAVEMENT REPLACEMENT WILL BE BEHIND
 BARRELS. MILLING AND SURFACE PAVING WILL REQUIRE 4 HOUR ROAD CLOSURE TO BE COORDINATED WITH THE
 ENGINEER AND LOCAL EMERGENCY RESPONDERS. SEE MOT CROSS-SECTIONS FOR ADDITIONAL INFORMATION.
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 CONSTRUCT NECESSARY DRAINAGE TIE-INS MAINTAINING ONE LANE OF TRAFFIC AT ALL TIMES.
 CONSTRUCT THE KY 911 NORTHERN WIDENING, AND CORRESPONDING SIDEWALK AND CURB AND GUTTER,
 EXCEPT FINAL SURFACE COURSE.
- TRAFFIC**
- SHIFT TRAFFIC TO NEWLY CONSTRUCTED KY 911 FOR PHASE 2B, CLOSE RIGHT THROUGH LANE ON US 41A TO
 CONSTRUCT ADJACENT TO LANE.
 MAINTAIN ENTRANCES; COORDINATE DRIVEWAY CLOSURES WITH PROPERTY OWNERS.
- PHASE 3**
 CONSTRUCTION
- COMPLETE PAVING WORK, STRIPING AND FINAL SEED AND DRESS.
- TRAFFIC**
- MAINTAIN 10' LANES IN BOTH DIRECTIONS.
 MAINTAIN ENTRANCES.



KY 911 MOT PHASE 2B



KY 911 MOT PHASE 1

GENERAL NOTES

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- EXCEPT FOR THE ROADWAY AND TRAFFIC CONTROL BID ITEMS LISTED, ALL ITEMS OF WORK NECESSARY TO MAINTAIN AND CONTROL TRAFFIC WILL BE PAID AT THE LUMP SUM BID PRICE TO "MAINTAIN AND CONTROL TRAFFIC" AS SET FORTH IN THE CURRENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION UNLESS OTHERWISE PROVIDED FOR IN THESE NOTES. THE LUMP SUM BID TO "MAINTAIN AND CONTROL TRAFFIC" SHALL ALSO INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS AND OPERATIONS:
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 - IN GENERAL, ALL TRAFFIC CONTROL DEVICES SHALL BE PLACED STARTING AND PROCEEDING IN THE DIRECTION OF THE FLOW OF TRAFFIC AND REMOVED STARTING AND PROCEEDING IN THE DIRECTION OPPOSITE THE FLOW OF TRAFFIC.
 - THE ENGINEER AND THE CONTRACTOR, OR THEIR AUTHORIZED REPRESENTATIVES, SHALL REVIEW THE SIGNING BEFORE TRAFFIC IS ALLOWED TO USE ANY LANE CLOSURES, CROSSTOVERS OR DETOURS. ALL SIGNING SHALL BE APPROVED BY THE ENGINEER BEFORE WORK CAN BE STARTED BY THE CONTRACTOR.
 - IF THE CONTRACTOR DESIRES TO DEVIATE FROM THE TRAFFIC CONTROL SCHEME AND CONSTRUCTION SCHEDULE OUTLINED IN THESE PLANS AND THIS PROPOSAL, HE SHALL PREPARE AN ALTERNATE PLAN AND PRESENT IT IN WRITING TO THE ENGINEER. THIS ALTERNATE PLAN CAN BE USED ONLY AFTER REVIEW AND APPROVAL OF THE DIVISIONS OF TRAFFIC, DESIGN AND CONSTRUCTION, AND THE FEDERAL HIGHWAY ADMINISTRATION, WHERE APPLICABLE.
 - IF TRAFFIC SHOULD BE STOPPED DUE TO CONSTRUCTION OPERATIONS AND AN EMERGENCY VEHICLE ON AN OFFICIAL EMERGENCY RUN ARRIVES AT THE SCENE, THE CONTRACTOR SHALL MAKE THE PROVISIONS FOR THE PASSAGE OF THAT VEHICLE AS QUICKLY AS POSSIBLE.
 - ALL SIGNS NECESSARY FOR A MARKED DETOUR WILL BE PROVIDED BY THE CONTRACTOR AS REQUIRED BY STANDARD DRAWINGS AND THE MUTCD. SIGNS OUTSIDE THE PROJECT LIMITS SHALL BE PAID FOR BY THE SQUARE FOOT. THIS QUANTITY SHALL INCLUDE SIGN MOUNTING HARDWARE AND POSTS.

TYPE	DIMENSIONS	AREA SQ. FT.	CONSTRUCTION SEQUENCE				NO. OF SIGNS REQ'D	TOTAL AREA SQ. FT.
			PHASE 1	PHASE 2A	PHASE 2B	PHASE 3		
G20-2	36"X18"	4.5	3	-	1	-	4	18
G20-5QP	24"X18"	3	2	-	-	-	2	6
R2-1	24"X30"	5	2	-	-	-	2	10
W3-4	36"X36"	9	-	2	-	-	2	18
W4-2	36"X36"	9	-	-	1	-	1	9
W16-2P	24"X18"	3	-	2	-	-	2	6
W20-1	36"X36"	9	12	-	1	-	13	117
W20-4	36"X36"	9	-	4	-	-	4	36
W20-5	36"X36"	9	-	-	2	-	2	18
W20-7	36"X36"	9	-	2	-	-	2	18

SIGNING SUMMARY