				MATE OF QUANTITIES
		UNITS	CODE	ITEM DESCRIPTION
	60	SQ FT	2562	SIGNS
	1	LP SUM LP SUM	2569 2650	DEMOBILIZATION (1.5%) MAINTAIN & CONTROL TRAFFIC (5%)
	4	EACH	2775	FLASHING ARROW
	638	LIN FT	4790	CONDUIT 1/2 INCH
	775	LIN FT	4791	CONDUIT 3/4 INCH
	70	LIN FT	4792	CONDUIT 1 INCH
	470	LIN FT	4793	CONDUIT 11/4 INCH
	40 259	LIN FT LIN FT	4794 4795	CONDUIT 11/2 INCH CONDUIT 2 INCH
	35	LIN FT	4796	CONDUIT 2 INCH
	78	LIN FT	4797	CONDUIT 3 INCH
	40	LIN FT	4798	CONDUIT 3 1/2 INCH
_	20	LIN FT	4799	CONDUIT 4 INCH
), DGN	10	EACH	4810	ELECTRICAL JUNCTION BOX
(SD)	2 125	EACH LIN FT	4811 4820	ELECTRICAL JUNCTION BOX TYPE B TRENCHING AND BACKFILLING
SHEE	44	LIN FT	4821	OPEN CUT ROADWAY
	125	LIN FT	4830	LOOP WIRE
		LIN FT	4840	CABLE-INTERCONNECT
QUANIII Y		LIN FT	4841	CABLE-NO. 14/2C
.26\02-		LIN FT	4842	CABLE-NO. 14/3C
28 7 26		LIN FT LIN FT	4843 4844	CABLE-NO. 14/4C CABLE-NO. 14/5C
DMSS		LIN FT	4845	CABLE-NO. 14/7C
/ Z M		LIN FT	4850	CABLE-NO. 14/1 PAIR
300D		LIN FT	4851	CABLE-NO. 14/2 PAIR
PWWORK\JESSICA.GOODWIN\DMS287		LIN FT	4852	CABLE-NO. 14/3 PAIR
JESS]		EACH	4871	POLE 35' WOODEN
ZXX		EACH EACH	4872 4873	POLE 40' WOODEN POLE 45' WOODEN
O M M c		EACH	4880	STEEL STRAIN POLE
٠ ن		EACH	4881	MAST ARM POLE
NAME:		EACH	4882	SIGNAL PEDESTAL
ILE N		EACH	4883	POST
		EACH LIN FT	4884 4885	ANCHOR MESSENGER-10800 LB
		LIN FT	4886	MESSENGER-10800 LB
		EACH	4887	INSTALL SIGNAL-8" LED
		LIN FT	4894	PREFORMED LOOP/LEAD-IN
		LIN FT	4895	LOOP SAW SLOT AND FILL
2024		EACH	4900	PEDESTRIAN DETECTOR
11, 2		EACH EACH	4905 4910	BLANKOUT SIGN SIGNAL-8"
June 11		EACH	4910	SIGNAL-12"
ן ה		EACH	4912	SIGNAL-3 SECTION 12"
OTTED:		EACH	4913	SIGNAL-4 SECTION 12"
		EACH	4914	SIGNAL -5 SECTION 12"
DATE		EACH EACH	4915 4916	SIGNAL-PROGRAMMED SIGNAL-PEDESTRIAN
		EACH	4916	SIGNAL-PEDESTRIAN SIGNAL CONTROLLER-TYPE 170
		EACH	4930	BEACON CONTROLLER-2 CIRCUIT
		EACH	4931	INSTALL SIG CONTROLLER-TYPE 170
NAME		LP SUM	4932	INSTALL STEEL STRAIN POLE
		EACH	4950	REMOVE SIGNAL EQUIPMENT
-SHEET		SQ YD FACH	4960 6472	REMOVE AND REPLACE SIDEWALK INSTALL SPAN MOUNTED SIGN
		EACH EACH	6472 20093NS835	INSTALL SPAN MOUNTED SIGN INSTALL PEDESTRIAN HEAD LED
. 397		EACH	20188NS835	INSTALL SIGNAL-3 SECTION LED
ກໍ =		EACH	20189NS835	INSTALL SIGNAL-5 SECTION LED
φ > (0		EACH	20266ES835	INSTALL SIGNAL-4 SECTION LED
InRoads		EACH	20275EC	VIDEO DETECTION-INSTALL
그		EACH	20390NS835	INSTALL COORDINATING UNIT
Φ Θ × C	6-11-2024	EACH EACH	20391NS835 20392NS835	ELECTRICAL JUNCTION BOX TYPE A ELECTRICAL JUNCTION BOX TYPE C
0		EACH	20408NS835	INSTALL SIGNAL-12" LED

LIN FT 20452NS835 PREFORMED LOOPS

AT KYTC'S DIVISION OF EQUIPMENT WAREHOUSE (1239 WILKINSON BOULEVARD, FRANKFORT KY 40622). THE FOLLOWING PROCEDURES SHALL BE FOLLOWED FOR MATERIAL RELEASE. FAILURE TO FOLLOW THESE PROCEDURES MAY RESULT IN LONG DELAYS OR REFUSAL TO DISTRIBUTE MATERIALS UPON ARRIVAL.

1. CONTRACTOR SHALL SECURE THE SIGNATURES OF KYTC'S PROJECT ENGINEER AND THE ELECTRICAL CONTRACTOR'S FOREMAN ON THE PROJECT MATERIALS RELEASE FORM. IF THE RELEASE FORM IS NOT IN THE PROPOSAL. CONTACT KIM STAMPER OR KERRY DECKER WITH THE DIVISION OF TRAFFIC OPERATIONS BY PHONE (502-782-8994/502-782-5536) OR EMAIL (KIM.STAMPER@KY.GOV/KERRY.DECKER@KY.GOV).

2. CONTRACTOR SHALL CONTACT THE WAREHOUSE TO PREARRANGE PICK UP OF MATERIALS. CONTRACTOR SHALL EMAIL THE PROJECT MATERIALS RELEASE FORM WITH REQUIRED SIGNATURES TO THE WAREHOUSE AT KIM.STAMPER@KY.GOV AND SHALL NOTIFY THE WAREHOUSE BY PHONE (502-782-8994/502-330-8153) OR EMAIL KIM.STAMPER@KY.GOV AT LEAST TWO (2) WORKING DAYS PRIOR TO ARRIVAL.

3. CONTRACTOR SHALL ALSO CONTACT THE SYSTEM OPERATIONS BRANCH OF THE DIVISION OF TRAFFIC OPERATIONS BY PHONE (502-782-5543/502-782-5547) OR EMAIL (JOE.THOMPSON@KY.GOV/LARRY.IRISH@KY.GOV) AT LEAST TWO (2) WORKING DAYS PRIOR TO ARRIVAL TO FACILITATE PROGRAMMING OF ROUTERS.

4. CONTRACTOR SHALL ARRIVE AT THE KYTC'S DIVISION OF EQUIPMENT WAREHOUSE (1239) WILKINSON BOULEVARD, FRANKFORT, KY 40622) AT THE PREARRANGED DATE/TIME FOR MATERIAL PICK UP. TO FACILITATE THIS PROCESS, ENSURE CONTRACTOR'S DELIVERY DRIVER HAS A COPY OF THE PROJECT MATERIALS RELEASE FORM WITH THE REQUIRED SIGNATURES.

ADD SENTENCE TO SECTION 835.17: ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES: "PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564

MEASUREMENT NOTES THAT ARE IN ADDITION TO SECTION 723

BLANKOUT SIGN - DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT FURNISHED AND INSTALLED. THE DEPARTMENT WILL NOT MEASURE CONNECTION TO SIGNAL CONDUCTORS OR SPAN WIRE HANGER ASSEMBLY (PELCO SE-3019 OR APPROVED EQUAL) AND WILL CONSIDER THESE INCIDENTAL TO THIS ITEM OF WORK.

ADVANCE WARNING FLASHER - DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT FURNISHED AND INSTALLED. THE DEPARTMENT WILL NOT MEASURE 48X48 INCH SIGN WITH CHANNEL POSTS, 72X44 INCH SPAN MOUNTED SIGN, CONDUIT FROM STEEL STRAIN POLE TO SIGNAL HEADS ON SIDE MOUNTED SIGN. CONDUIT FITTINGS AND STRAPS, OR ANY ASSOCIATED SIGN MOUNTING HARDWARE AND WILL CONSIDER THESE INCIDENTAL TO THIS ITEM OF WORK.

INSTALL VIDEO CAMERA - DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT INSTALLED. THE DEPARTMENT WILL NOT MEASURE INSTALLATION OF SPECIFIED VIDEO CAMERA. VIDEO MODULES. OR MOUNTING BRACKET AS SHOWN ON THE DETAIL SHEET AND WILL CONSIDER THESE INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL NOT MEASURE FURNISHING AND INSTALLING TRUSS TYPE ARM (IF NECESSARY), POWER CABLE, COAXIAL CABLE, OR ANY HARDWARE NECESSARY FOR PROPER INSTALLATION AND WILL CONSIDER THESE INCIDENTAL TO THIS ITEM OF WORK. CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER WHEN INSTALLATION IS COMPLETE FOR PLACEMENT OF LOOPS.

INSTALL TEMPORARY VIDEO CAMERA - DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT INSTALLED. THE DEPARTMENT WILL NOT MEASURE INSTALLING AND MAINTAINING SPECIFIED VIDEO CAMERA, VIDEO MODULES, OR MOUNTING BRACKET AS SHOWN ON THE DETAIL SHEET AND WILL CONSIDER THESE INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL NOT MEASURE FURNISHING AND INSTALLING TRUSS TYPE ARM (IF NECESSARY), POWER CABLE, COAXIAL CABLE, OR ANY HARDWARE NECESSARY FOR PROPER INSTALLATION AND WILL CONSIDER THESE INCIDENTAL TO THIS ITEM OF WORK. UP TO TWO RELOCATIONS OF THE VIDEO CAMERA TO A TRAFFIC POLE AND ANY CAMERA MODIFICATIONS DUE TO LANE SHIFTS OR CLOSURES WILL NOT BE MEASURED BY THE DEPARTMENT AND WILL BE CONSIDERED INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL NOT MEASURE THE REMOVAL OF VIDEO CAMERA EQUIPMENT, MOUNTING BRACKET, WIRES, OR ANY OTHER ASSOCIATED HARDWARE AND WILL CONSIDER THEIR REMOVAL INCIDENTAL TO THIS ITEM OF WORK. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER WHEN VIDEO LOOPS ARE TO BE INSTALLED. UPON COMPLETION OF SIGNAL WORK ALL UNUSED EQUIPMENT SHALL BE RETURNED TO THE DIVISION OF TRAFFIC OPERATIONS IN FRANKFORT, KY. THE CONTRACTOR SHALL NOTIFY DISTRICT TRAFFIC TWO WEEKS IN ADVANCE OF ANY MODIFICATIONS OR RELOCATIONS OF VIDEO CAMERAS.

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 CUTOUT, FUSES, GROUND RODS, GROUND LUGS, AND GROUND WIRES FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

ITEM NO. SHEET NO. COUNTY OF

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

	MAX SERVICE	DIAMETER (IN.)	DEPTH (FEET)						TIES OR SPIRAL	
MON	MOMENT		< 2:1 GROUND SLOPE		2:1 GROUND SLOPE"		VERTICAL BARS		BAR	SPACING
	(FT-KIPS)		SOIL	ROCK	SOIL	ROCK	SIZE	TOTAL	SIZE	OR PITCH (IN.)
	99 99999999999999999999999999999999999	A BUSINESSE SE	6789911111111111111111111111111111111111	5 55. 	689100.123.67.91.555.5 1123.67.91.555.5	5.777	33333333333333889	######################################	#4444444 ##444444 ####################	222222222222222222222222222222222222222

SUBSECTION: 03.13 LOOP INSTALLATION.

REPLACE FIRST SENTENCE NOTE WITH THE FOLLOWING:

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: 03.17 A) TESTING.

REPLACE FIFTH SENTENCE WITH THE FOLLOWING:

THE CONTRACTOR SHALL VERIFY THAT THE LOOPS (BOTH EXISITNG AND REPLACEMENT

LOOPS) MEETS THE REQUIREMENTS BEFORE THE FINAL SURFACE IS LAID.

ADD FOLLOWING SENTENCE AT END OF PARAGRAGH: IF THE ENGINEER DECIDES TO REPLACE ANY LOOPS BEFORE TESTING, BID ITEM LOOP

TEST WILL NOT BE USED FOR THAT LOOP LOCATION.

SUBSECTION: 03.12 WIRING INSTALLATION.

SEE TRAFFIC OPERATIONS WEBSITE FOR WORD DOCUMENT TO REPLACE ALL REVISION:

CHARTS FOR WIRING TO SHOW CHANGES FOR EQUIPMENT GROUNDING.

REVISION:

REVISION:

SUBSECTION: 04.22 REMOVE SIGNAL EQUIPMENT. (PERMIT ONLY)

REVISION: REPLACE ENTIRE NOTE WITH THE FOLLOWING:

THE DEPARTMENT WILL MEASURE THE QUANTITY AS A EACH REMOVAL OF SIGNAL EQUIPMENT. THE CONTRACTOR SHALL DISPOSE ALL MATERIALS REMOVED FROM THE PROJECT IN ACCORDANCE WITH CABINET POLICY. THE CONTRACTOR SHALL TAKE ALL STEEL AND ALUMINUM POLES TO THE EQUIPMENT WAREHOUSE IN FRANKFORT, KENTUCKY. ALL OTHER MATERIALS (WITH EXCEPTION OF PLASTIC ITEMS AND WOOD POLES) SHALL BE TAKEN TO LOCATIONS IDENTIFIED BY THE

DISTRICT TRAFFIC ENGINEER. THE CONTRACTOR SHALL CONTACT THE DIVISION OF EQUIPMENT (502-564-3916) TO SCHEDULE A TIME TO DELIVER STEEL AND ALUMINUM POLES TO THE EQUIPMENT WAREHOUSE. THE TRANSPORTATION OF THE MATERIALS

WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

REVISION:

SUBSECTION: 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.

DESIGNED	BY:				
DATE SUB	MITTED:				
		wealt MENT COUN	OF :	HIGH	_
PROJECT NUMBERS:					

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

INSTALL RADAR PRESENCE DETECTOR TYPE A SHALL CONSIST OF INSTALLATION OF A POLE MOUNTED RADAR PRESENCE SENSOR, SENSOR MOUNTING BRACKET, SENSOR CABLES,