



**COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET**

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

Matthew G. Bevin
Governor

Greg Thomas
Secretary

January 23, 2019

CALL NO. 101
CONTRACT ID NO. 191005
ADDENDUM # 1

Subject: MCCRACKEN COUNTY, NHPP 0601(205)
Letting January 25, 2019

- (1) Revised - Proposal Bid Items - Pages 105-109(a) of 109
- (2) Added - Detour Signing Plan - Pages 1-5 of 5
- (3) Added - Traffic Management Plan - Pages 1-13 of 13
- (4) Revised - Plan Sheets - R2K, R71, and T26

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 cursive script that reads "Rachel Mills".

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

RM:mr
Enclosures



An Equal Opportunity Employer M/F/D

PROPOSAL BID ITEMS

Report Date 1/23/19

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00003		CRUSHED STONE BASE	15,942.00	TON		\$	
0020	00100		ASPHALT SEAL AGGREGATE	53.80	TON		\$	
0030	00103		ASPHALT SEAL COAT	6.47	TON		\$	
0040	00190		LEVELING & WEDGING PG64-22	1,132.00	TON		\$	
0050	00191		ASPHALT SCRATCH COURSE PG64-22	920.00	TON		\$	
0060	00212		CL2 ASPH BASE 1.00D PG64-22	183.00	TON		\$	
0070	00214		CL3 ASPH BASE 1.00D PG64-22	13,020.00	TON		\$	
0080	00221		CL2 ASPH BASE 0.75D PG64-22	343.00	TON		\$	
0090	00301		CL2 ASPH SURF 0.38D PG64-22	186.00	TON		\$	
0100	00326		CL3 ASPH SURF 0.50B PG76-22	4,222.00	TON		\$	
0110	00356		ASPHALT MATERIAL FOR TACK	21.49	TON		\$	
0120	02073		JPC PAVEMENT-9 IN	1,256.00	SQYD		\$	
0130	02677		ASPHALT PAVE MILLING & TEXTURING	754.00	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0140	00078		CRUSHED AGGREGATE SIZE NO 2	1,758.00	TON		\$	
0150	01000		PERFORATED PIPE-4 IN	7,966.00	LF		\$	
0160	01010		NON-PERFORATED PIPE-4 IN	123.00	LF		\$	
0170	01024		PERF PIPE HEADWALL TY 2-4 IN	4.00	EACH		\$	
0180	01028		PERF PIPE HEADWALL TY 3-4 IN	3.00	EACH		\$	
0190	01032		PERF PIPE HEADWALL TY 4-4 IN	1.00	EACH		\$	
0200	01690		FLUME INLET TYPE 1	2.00	EACH		\$	
0210	01691		FLUME INLET TYPE 2	4.00	EACH		\$	
0220	01740		CORED HOLE DRAINAGE BOX CON-4 IN	4.00	EACH		\$	
0230	01811		STANDARD CURB AND GUTTER MOD	8,128.00	LF		\$	
0240	01875		STANDARD HEADER CURB	304.00	LF		\$	
0250	01919		STANDARD BARRIER MEDIAN TYPE 3	580.00	SQYD		\$	
0260	01921		STANDARD BARRIER MEDIAN TYPE 4	1,118.00	SQYD		\$	
0270	01982		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	9.00	EACH		\$	
0280	01983		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL YELLOW	8.00	EACH		\$	
0290	02003		RELOCATE TEMP CONC BARRIER	2,000.00	LF		\$	
0300	02012		BARRICADE-TYPE I	9.00	EACH		\$	
0310	02014		BARRICADE-TYPE III	7.00	EACH		\$	
0320	02091		REMOVE PAVEMENT	235.00	SQYD		\$	
0330	02159		TEMP DITCH	4,605.00	LF		\$	
0340	02160		CLEAN TEMP DITCH	13,815.00	LF		\$	
0350	02230		EMBANKMENT IN PLACE	14,985.00	CUYD		\$	
0360	02237		DITCHING	537.00	LF		\$	
0370	02242		WATER	87.00	MGAL		\$	
0380	02351		GUARDRAIL-STEEL W BEAM-S FACE	800.00	LF		\$	
0390	02367		GUARDRAIL END TREATMENT TYPE 1	1.00	EACH		\$	
0400	02369		GUARDRAIL END TREATMENT TYPE 2A	4.00	EACH		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0410	02381		REMOVE GUARDRAIL	537.50	LF		\$	
0420	02383		REMOVE & RESET GUARDRAIL	50.00	LF		\$	
0430	02483		CHANNEL LINING CLASS II	284.00	TON		\$	
0440	02545		CLEARING AND GRUBBING 14.37 ACRES	1.00	LS		\$	
0450	02555		CONCRETE-CLASS B	30.00	CUYD		\$	
0460	02562		TEMPORARY SIGNS (REVISED: 1-23-19)	961.50	SQFT		\$	
0470	02585		EDGE KEY	398.00	LF		\$	
0480	02587		HOOK BOLT WITH EXPAN ANCHOR	110.00	EACH		\$	
0490	02599		FABRIC-GEOTEXTILE TYPE IV	2,300.00	SQYD		\$	
0500	02600		FABRIC GEOTEXTILE TY IV FOR PIPE	12,965.00	SQYD	\$2.00	\$	\$25,930.00
0510	02613		HANDRAIL-TYPE A-3	73.00	LF		\$	
0520	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0530	02671		PORTABLE CHANGEABLE MESSAGE SIGN (REVISED: 1-23-19)	10.00	EACH		\$	
0540	02676		MOBILIZATION FOR MILL & TEXT	1.00	LS		\$	
0550	02696		SHOULDER RUMBLE STRIPS	2,728.00	LF		\$	
0560	02701		TEMP SILT FENCE	4,605.00	LF		\$	
0570	02703		SILT TRAP TYPE A	14.00	EACH		\$	
0580	02704		SILT TRAP TYPE B	14.00	EACH		\$	
0590	02705		SILT TRAP TYPE C	14.00	EACH		\$	
0600	02706		CLEAN SILT TRAP TYPE A	84.00	EACH		\$	
0610	02707		CLEAN SILT TRAP TYPE B	84.00	EACH		\$	
0620	02708		CLEAN SILT TRAP TYPE C	84.00	EACH		\$	
0630	02720		SIDEWALK-4 IN CONCRETE	297.00	SQYD		\$	
0640	02726		STAKING	1.00	LS		\$	
0650	02775		ARROW PANEL	4.00	EACH		\$	
0660	02898		RELOCATE CRASH CUSHION	4.00	EACH		\$	
0670	02998		MASONRY COATING	70.00	SQYD		\$	
0680	03171		CONCRETE BARRIER WALL TYPE 9T	2,000.00	LF		\$	
0690	05950		EROSION CONTROL BLANKET	3,788.00	SQYD		\$	
0700	05952		TEMP MULCH	69,843.00	SQYD		\$	
0710	05953		TEMP SEEDING AND PROTECTION	6,984.00	SQYD		\$	
0720	05963		INITIAL FERTILIZER	2.40	TON		\$	
0730	05964		MAINTENANCE FERTILIZER	4.00	TON		\$	
0740	05985		SEEDING AND PROTECTION	69,843.00	SQYD		\$	
0750	05990		SODDING	8,142.00	SQYD		\$	
0760	05992		AGRICULTURAL LIMESTONE	48.00	TON		\$	
0770	06401		FLEXIBLE DELINEATOR POST-M/W	75.00	EACH		\$	
0780	06404		FLEXIBLE DELINEATOR POST-M/Y	75.00	EACH		\$	
0790	06510		PAVE STRIPING-TEMP PAINT-4 IN	66,940.00	LF		\$	
0800	06511		PAVE STRIPING-TEMP PAINT-6 IN	14,020.00	LF		\$	
0810	06514		PAVE STRIPING-PERM PAINT-4 IN	33,515.00	LF		\$	
0820	06515		PAVE STRIPING-PERM PAINT-6 IN	6,909.00	LF		\$	
0830	06516		PAVE STRIPING-PERM PAINT-8 IN	2,840.00	LF		\$	
0840	06517		PAVE STRIPING-PERM PAINT-12 IN	320.00	LF		\$	
0850	06566		PAVE MARKING-THERMO X-WALK-12 IN	472.00	LF		\$	
0860	06568		PAVE MARKING-THERMO STOP BAR-24IN	908.00	LF		\$	
0870	06570		PAVE MARKING-PAINT CROSS-HATCH	1,463.00	SQFT		\$	

PROPOSAL BID ITEMS

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0880	06572		PAVE MARKING-DOTTED LANE EXTEN	683.00	LF		\$	
0890	06573		PAVE MARKING-THERMO STR ARROW	49.00	EACH		\$	
0900	06574		PAVE MARKING-THERMO CURV ARROW	100.00	EACH		\$	
0910	06575		PAVE MARKING-THERMO COMB ARROW	36.00	EACH		\$	
0920	06576		PAVE MARKING-THERMO ONLY	7.00	EACH		\$	
0930	06583		PAVEMENT MARKER TYPE IV-B W/R	85.00	EACH		\$	
0940	06584		PAVEMENT MARKER TYPE IV-B Y/R	181.00	EACH		\$	
0950	06600		REMOVE PAVEMENT MARKER TYPE V	544.00	EACH		\$	
0960	08001		STRUCTURE EXCAVATION-COMMON	37.00	CUYD		\$	
0970	08100		CONCRETE-CLASS A	369.64	CUYD		\$	
0980	08150		STEEL REINFORCEMENT	509.00	LB		\$	
0990	08151		STEEL REINFORCEMENT-EPOXY COATED	2,022.00	LB		\$	
1000	08902		CRASH CUSHION TY VI CLASS B TL3	2.00	EACH		\$	
1010	08903		CRASH CUSHION TY VI CLASS BT TL3	4.00	EACH		\$	
1020	10020NS		FUEL ADJUSTMENT	39,467.00	DOLL	\$1.00	\$	\$39,467.00
1030	10030NS		ASPHALT ADJUSTMENT	78,215.00	DOLL	\$1.00	\$	\$78,215.00
1040	20071EC		JOINT ADHESIVE	38,671.00	LF		\$	
1050	20099ES842		PAVE MARK TEMP PAINT STOP BAR	264.00	LF		\$	
1060	20191ED		OBJECT MARKER TY 3	1.00	EACH		\$	
1065	20411ED		LAW ENFORCEMENT OFFICER (ADDED: 1-23-19)	5,040.00	HOURL		\$	
1070	20430ED		SAW CUT	15,553.00	LF		\$	
1080	22520EN		PAVE MARKING-THERMO YIELD BAR-36 IN	36.00	LF		\$	
1090	22664EN		WATER BLASTING EXISTING STRIPE	24,000.00	LF		\$	
1100	22861EN		HIGH STRENGTH GEOTEXTILE FABRIC TY V	1,200.00	SQYD		\$	
1110	23143ED		KPDES PERMIT AND TEMP EROSION CONTROL	1.00	LS		\$	
1120	23158ES505		DETECTABLE WARNINGS	274.00	SQFT		\$	
1130	23274EN11F		TURF REINFORCEMENT MAT 1	846.00	SQYD		\$	
1140	23791EC		PAVE STRIPING-CHEVRON MARKINGS	345.00	SQFT		\$	
1150	24109EC		BARRIER CURB AND GUTTER-MOD	5,712.00	LF		\$	
1160	24110EC		PERM PAINT-BARRIER CURB	5,633.00	LF		\$	
1170	24489EC		INLAID PAVEMENT MARKER	921.00	EACH		\$	
1180	24631EC		BARCODE SIGN INVENTORY	105.00	EACH		\$	
1190	24640ED		OBJECT MARKER TYPE 1	2.00	EACH		\$	
1200	24814EC		PIPELINE INSPECTION	4,024.00	LF		\$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1210	00461		CULVERT PIPE-15 IN	235.00	LF		\$	
1220	00462		CULVERT PIPE-18 IN	111.00	LF		\$	
1230	00464		CULVERT PIPE-24 IN	7.00	LF		\$	
1240	00521		STORM SEWER PIPE-15 IN	1,770.00	LF		\$	
1250	00522		STORM SEWER PIPE-18 IN	1,262.00	LF		\$	
1260	00524		STORM SEWER PIPE-24 IN	802.00	LF		\$	
1270	00526		STORM SEWER PIPE-30 IN	51.00	LF		\$	
1280	01202		PIPE CULVERT HEADWALL-15 IN	12.00	EACH		\$	
1290	01204		PIPE CULVERT HEADWALL-18 IN	3.00	EACH		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1300	01208		PIPE CULVERT HEADWALL-24 IN	4.00	EACH		\$	
1310	01210		PIPE CULVERT HEADWALL-30 IN	1.00	EACH		\$	
1320	01432		SLOPED BOX OUTLET TYPE 1-15 IN	3.00	EACH		\$	
1330	01433		SLOPED BOX OUTLET TYPE 1-18 IN	4.00	EACH		\$	
1340	01434		SLOPED BOX OUTLET TYPE 1-24 IN	1.00	EACH		\$	
1350	01456		CURB BOX INLET TYPE A	38.00	EACH		\$	
1360	01459		CURB BOX INLET TYPE A MOD	11.00	EACH		\$	
1370	01480		CURB BOX INLET TYPE B	2.00	EACH		\$	
1380	01490		DROP BOX INLET TYPE 1	2.00	EACH		\$	
1390	01634		CAP CURB BOX INLET	4.00	EACH		\$	
1400	01650		JUNCTION BOX	3.00	EACH		\$	
1410	01719		ADJUST INLET	1.00	EACH		\$	
1420	01791		ADJUST MANHOLE FRAME TO GRADE	7.00	EACH		\$	
1430	01792		ADJUST MANHOLE	2.00	EACH		\$	
1440	02402		REMOVE STONE MASONRY	.73	CUYD		\$	
1450	03000		PRECAST CONC BOX SECT 13'X3'	20.00	LF		\$	
1460	08100		CONCRETE-CLASS A	2.67	CUYD		\$	
1470	08103		CONCRETE-CLASS D MOD	.73	CUYD		\$	
1480	21800EN		BORE AND JACK PIPE-30 IN	126.00	LF		\$	

Section: 0004 - SIGNING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1490	06405		SBM ALUMINUM PANEL SIGNS	1,122.00	SQFT		\$	
1500	06406		SBM ALUM SHEET SIGNS .080 IN	456.00	SQFT		\$	
1510	06407		SBM ALUM SHEET SIGNS .125 IN	270.00	SQFT		\$	
1520	06410		STEEL POST TYPE 1	1,314.00	LF		\$	
1530	06412		STEEL POST MILE MARKERS	1.00	EACH		\$	
1540	06441		GMSS GALV STEEL TYPE C	3,246.00	LB		\$	
1550	06448		SIGN BRIDGE ATTACHMENT BRACKET	2.00	EACH		\$	
1560	06490		CLASS A CONCRETE FOR SIGNS	11.50	CUYD		\$	
1570	06491		STEEL REINFORCEMENT FOR SIGNS	500.00	LB		\$	
1580	20418ED		REMOVE & RELOCATE SIGNS	8.00	EACH		\$	
1590	21373ND		REMOVE SIGN	50.00	EACH		\$	
1600	21596ND		GMSS TYPE D	4.00	EACH		\$	

Section: 0005 - SIGNALIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1610	04740		POLE BASE	3.00	EACH		\$	
1620	04780		FUSED CONNECTOR KIT	48.00	EACH		\$	
1630	04792		CONDUIT-1 IN	154.00	LF		\$	
1640	04795		CONDUIT-2 IN	1,830.00	LF		\$	
1650	04811		ELECTRICAL JUNCTION BOX TYPE B	37.00	EACH		\$	
1660	04820		TRENCHING AND BACKFILLING (REVISED: 1-23-19)	2,779.00	LF		\$	
1670	04830		LOOP WIRE	19,130.00	LF		\$	

PROPOSAL BID ITEMS

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1680	04834		WIRE-NO. 6	1,320.00	LF		\$	
1690	04835		WIRE-NO. 4	1,420.00	LF		\$	
1700	04844		CABLE-NO. 14/5C	16,881.00	LF		\$	
1710	04850		CABLE-NO. 14/1 PAIR	21,827.00	LF		\$	
1720	04871		POLE 35 FT WOODEN	1.00	EACH		\$	
1740	04885		MESSENGER-10800 LB	994.00	LF		\$	
1750	04886		MESSENGER-15400 LB	1,148.00	LF		\$	
1760	04895		LOOP SAW SLOT AND FILL	7,005.00	LF		\$	
1770	04932		INSTALL STEEL STRAIN POLE	16.00	EACH		\$	
1780	04934		TEMP SIGNAL MULTI PHASE	2.00	EACH		\$	
1790	06472		INSTALL SPAN MOUNTED SIGN	28.00	EACH		\$	
1800	20093NS835		INSTALL PEDESTRIAN HEAD-LED	12.00	EACH		\$	
1810	20094ES835		TEMP RELOCATION OF SIGNAL HEAD	102.00	EACH		\$	
1820	20188NS835		INSTALL LED SIGNAL-3 SECTION	69.00	EACH		\$	
1830	20266ES835		INSTALL LED SIGNAL- 4 SECTION	4.00	EACH		\$	
1840	20390NS835		INSTALL COORDINATING UNIT	5.00	EACH		\$	
1850	20391NS835		ELECTRICAL JUNCTION BOX TYPE A	7.00	EACH		\$	
1860	20392NS835		ELECTRICAL JUNCTION BOX TYPE C	4.00	EACH		\$	
1865	21543EN		BORE AND JACK CONDUIT (ADDED: 1-23-19)	685.00	LF		\$	
1870	21743NN		INSTALL PEDESTRIAN DETECTOR	12.00	EACH		\$	
1875	22631NN		INSTALL MAST ARM POLE (ADDED: 1-23-19)	7.00	EACH		\$	
1880	22939ND		INSTALL LUMINAIRE POLE	3.00	EACH		\$	
1890	23157EN		TRAFFIC SIGNAL POLE BASE	94.90	CUYD		\$	
1900	23222EC		INSTALL SIGNAL PEDESTAL	8.00	EACH		\$	
1910	24856ED		TRAFFIC SIGNAL POLE BASE ALTERNATE	23.00	EACH		\$	
1920	24900EC		PVC CONDUIT-1 1/4 IN-SCHEDULE 80	1,138.00	LF		\$	
1930	24901EC		PVC CONDUIT-2 IN-SCHEDULE 80	2,712.00	LF		\$	
1940	24908EC		INSTALL SIGNAL CONTROLLER-TY ATC	5.00	EACH		\$	
1950	24955ED		REMOVE SIGNAL EQUIPMENT	6.00	EACH		\$	

Section: 0006 - LIGHTING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1960	04714		POLE 120 FT MTG HT HIGH MAST	7.00	EACH		\$	
1970	04761		LIGHTING CONTROL EQUIPMENT	1.00	EACH		\$	
1980	04797		CONDUIT-3 IN	2,325.00	LF		\$	
1990	04800		MARKER	14.00	EACH		\$	
2000	04820		TRENCHING AND BACKFILLING	4,490.00	LF		\$	
2010	04940		REMOVE LIGHTING	1.00	LS		\$	
2020	20391NS835		ELECTRICAL JUNCTION BOX TYPE A	12.00	EACH		\$	
2030	20392NS835		ELECTRICAL JUNCTION BOX TYPE C	2.00	EACH		\$	
2040	20410ED		MAINTAIN LIGHTING	1.00	LS		\$	
2050	21543EN		BORE AND JACK CONDUIT	2,325.00	LF		\$	
2060	23161EN		POLE BASE-HIGH MAST	66.52	CUYD		\$	
2070	24749EC		HIGH MAST LED LUMINAIRE	34.00	EACH		\$	
2080	24851EC		CABLE-NO. 10/3C DUCTED	10,060.00	LF		\$	

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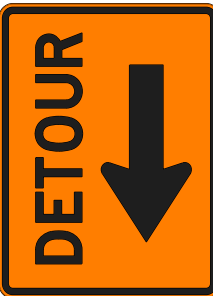













Section: 0007 - MOBILIZATION AND/OR DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
2090	02568		MOBILIZATION	1.00	LS		\$	
2100	02569		DEMOBILIZATION	1.00	LS		\$	

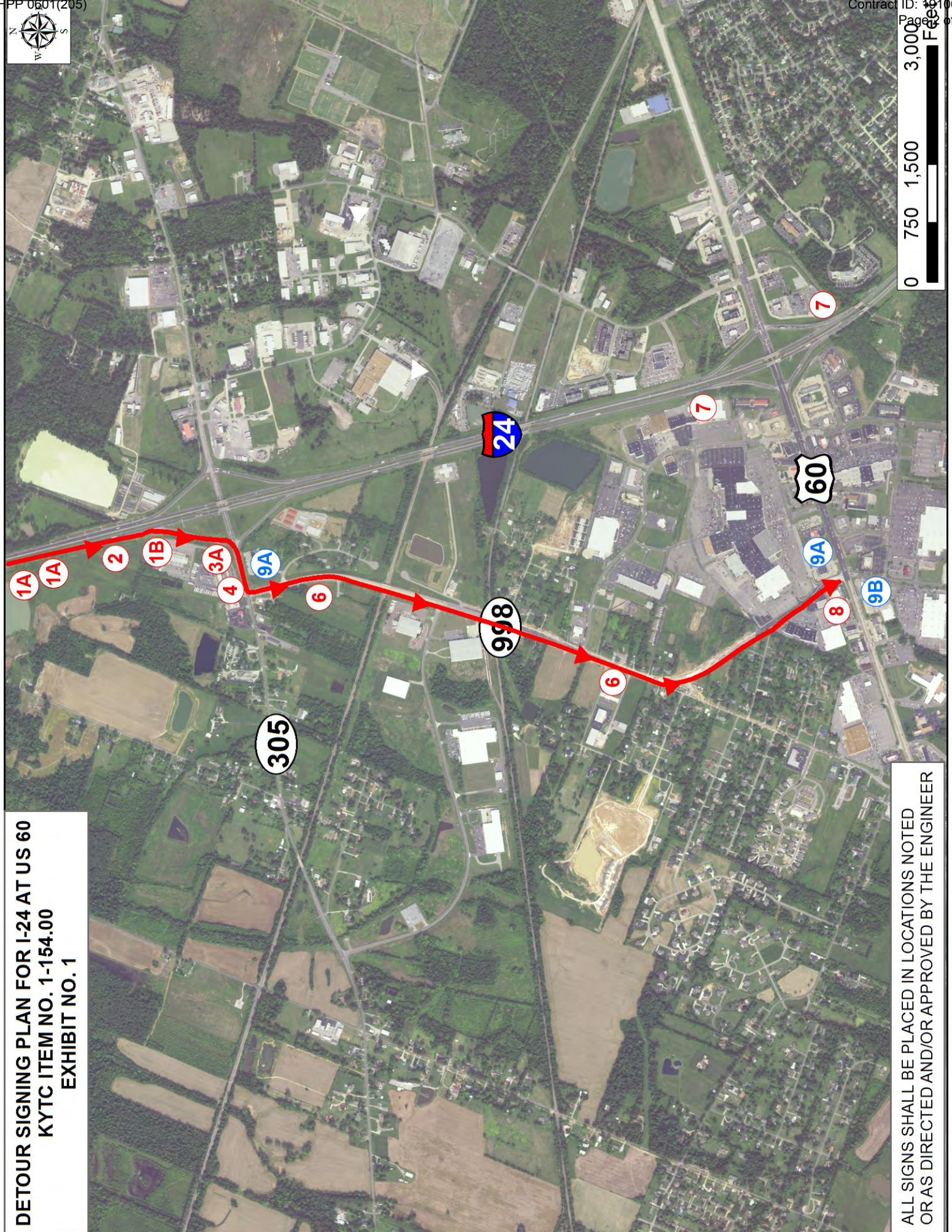
DETOUR SIGNS KEY

PORTABLE CHANGEABLE MESSAGE SIGNS

- 
1A EXIT 4
CLOSED
AHEAD
FOLLOW
DETOUR
- 
1B DOWNTOWN
NEXT LEFT
MALL AREA
NEXT RT
- 
1C EXIT 4
CLOSED
AHEAD
FOLLOW
DETOUR
- 
1D DOWNTOWN
NEXT RT
MALL AREA
NEXT LEFT

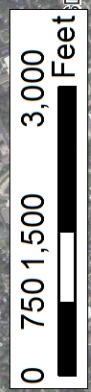
 M4-9 	 M4-9 	 M4-9 	 M4-10 
 M4-9 	 M4-9 	 M4-9 	 M4-10 
 M4-9 	 E5-2A 	 M4-8A 	

ALL SIGNS SHALL BE PLACED IN LOCATIONS NOTED OR AS DIRECTED AND/OR APPROVED BY THE ENGINEER



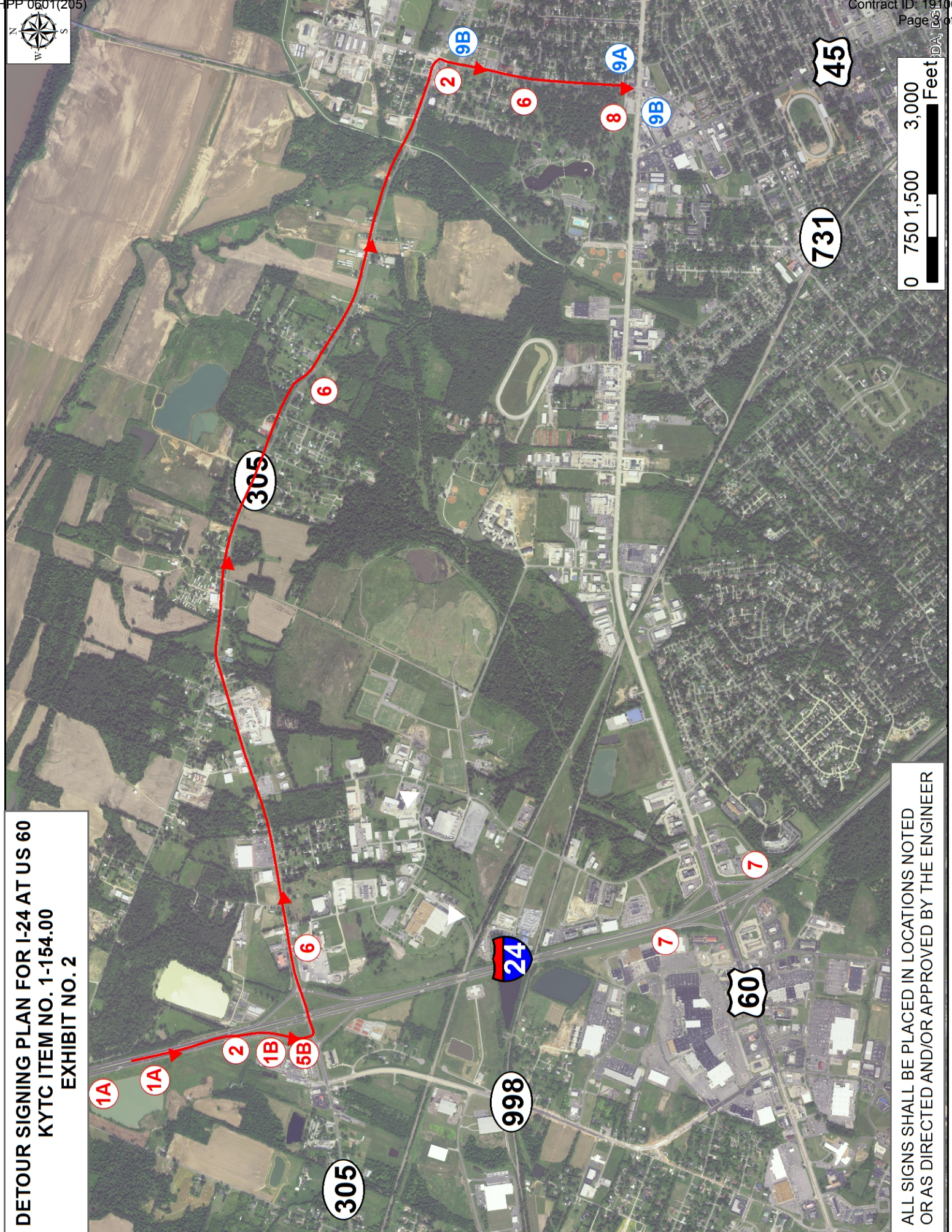
DETOUR SIGNING PLAN FOR I-24 AT US 60
KYTC ITEM NO. 1-154.00
EXHIBIT NO. 1

ALL SIGNS SHALL BE PLACED IN LOCATIONS NOTED
OR AS DIRECTED AND/OR APPROVED BY THE ENGINEER



**DETOUR SIGNING PLAN FOR I-24 AT US 60
KYTC ITEM NO. 1-154.00
EXHIBIT NO. 2**

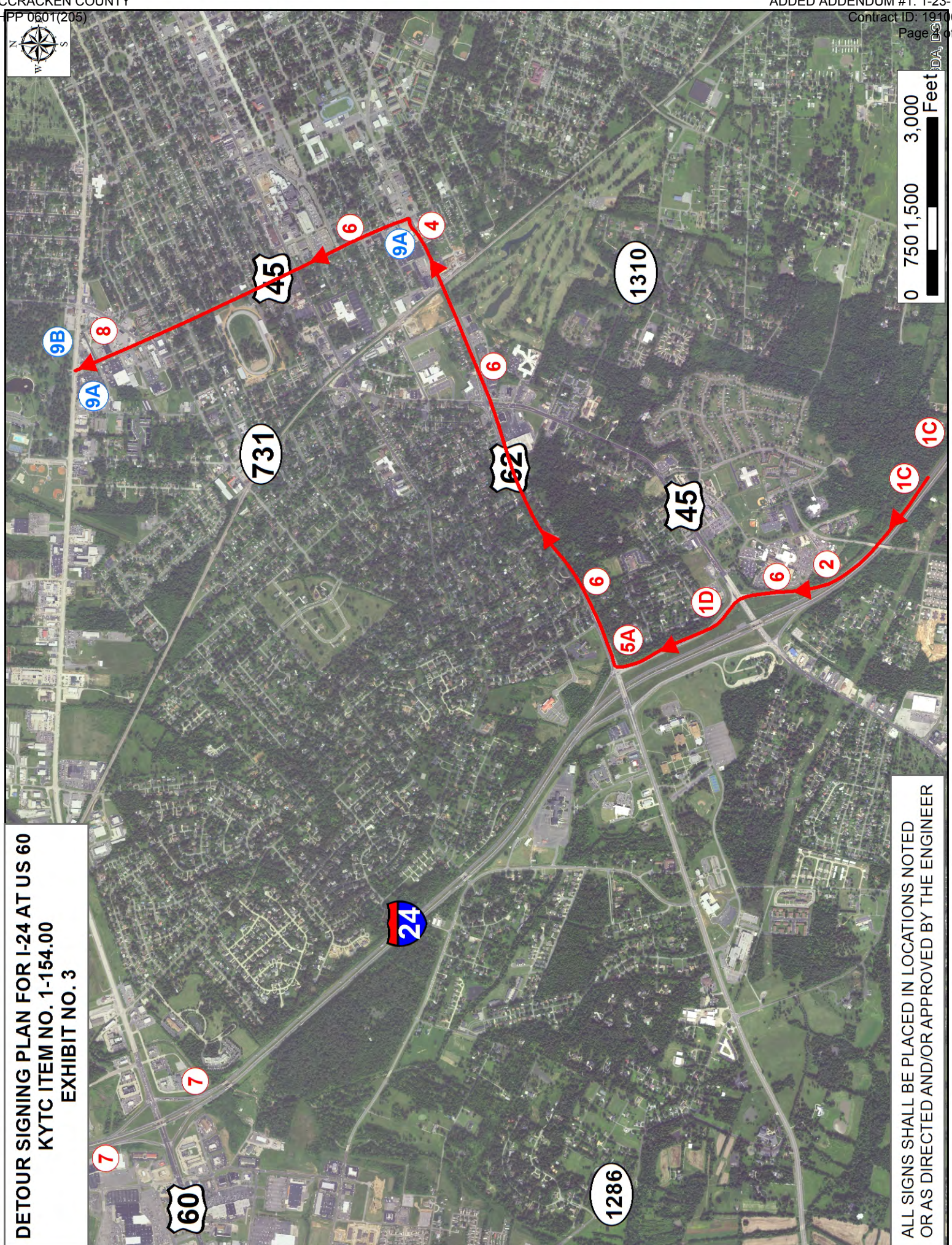
**ALL SIGNS SHALL BE PLACED IN LOCATIONS NOTED
OR AS DIRECTED AND/OR APPROVED BY THE ENGINEER**

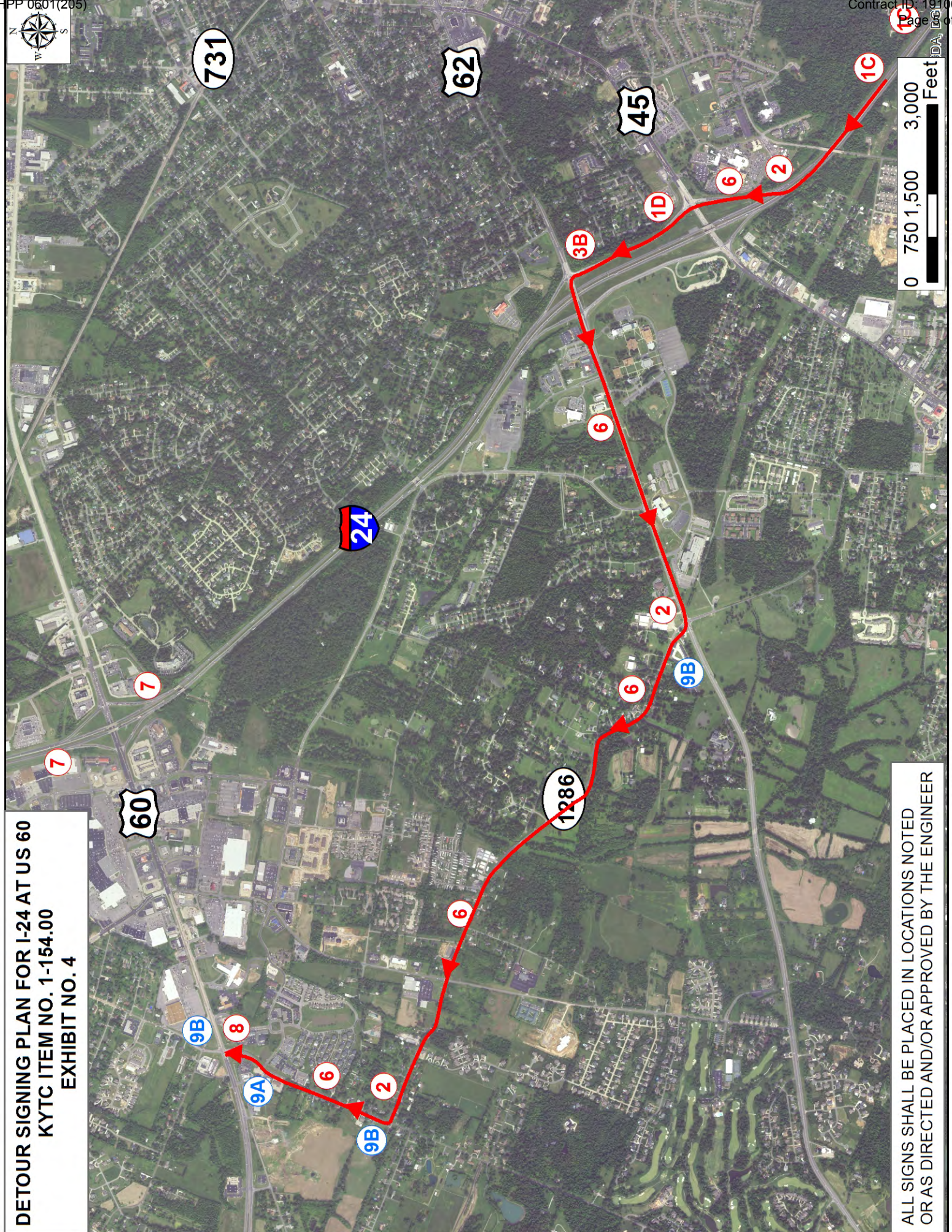




**DETOUR SIGNING PLAN FOR I-24 AT US 60
KYTC ITEM NO. 1-154.00
EXHIBIT NO. 3**

**ALL SIGNS SHALL BE PLACED IN LOCATIONS NOTED
OR AS DIRECTED AND/OR APPROVED BY THE ENGINEER**





DETOUR SIGNING PLAN FOR I-24 AT US 60
KYTC ITEM NO. 1-154.00
EXHIBIT NO. 4

ALL SIGNS SHALL BE PLACED IN LOCATIONS NOTED
OR AS DIRECTED AND/OR APPROVED BY THE ENGINEER



Kentucky Transportation Cabinet
Division of Highway Design
TRAFFIC MANAGEMENT PLAN

County: McCracken Item No.: 01-154.00

Federal Project No.: NHPP 0601 182

Project Description:

Construct a Double-Crossover Diamond Interchange on US 60 at the I-24 Interchange near Kentucky Oaks Mall.

Roadway Classification: Urban Rural
 Local Collector Arterial Interstate

ADT (current) 36,000 AM Peak Current _____ PM Peak Current _____ % Trucks 10%

Project Designation: Significant Other: _____

Traffic Control Plan Design:

Taper and Diversion Design Speeds _____

Minimum Lane Width 11' Minimum Shoulder Width 2'

Minimum Bridge Width _____

Minimum Radius _____ Maximum Grade _____

Minimum Taper Length _____ Minimum Intersection Level of Service _____

Existing Traffic Queue Lengths _____ Projected Traffic Queue Lengths _____

Comments:

This project is broken into five phases.



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Discussion:

1) Public Information Plan			
a) Prepare with assistance from <input checked="" type="checkbox"/> KYTC or <input type="checkbox"/>			
b) Identify Trip Generators	N/A	f) Railroad Involvement	N/A
c) Identify Types of Road Users	Referenced	g) Address Pedestrians, Bikes Mass Transit	Referenced
d) Public Information Message	Referenced	h) Address Timing, Frequency, Updates, Effectiveness of Plan	Referenced
e) Public Information Strategies to be used	Referenced	i) Police & Other Emergency Services	Referenced

Stakeholders

- Utility Companies
 - Comcast: 270-538-7405
 - Jackson Purchase Energy Corporation: 270-442-7321
 - Paducah Power System: 270-575-4000
 - Paducah Power System Fibernet: 270-575-4004
 - Paducah Water: 270-444-5560
 - The Paducah – McCracken County Joint Sewer Agency (JSA): 270-575-0056
 - AT&T: 270-444-5048
 - ATMOS Energy Corporation: 270-685-8095
- Government Agencies
 - McCracken County Judge Executive: 270-444-4707
 - McCracken County Public Schools: 270-538-4000
 - McCracken County Sheriff: 270-444-4719
 - Paducah-McCracken County Office of Emergency Management: 270-448-1530
 - Paducah Mayor: 270-444-8504
 - Paducah Police Department: 270-444-8548
 - Paducah Fire Department: 270-444-8521
 - Paducah Public Schools: 270-444-5600
 - Paducah Post Office Carrier Annex: 270-444-9447
 - West Paducah Post Office: 270-744-6673
 - West Kentucky Community and Technical College: 270-554-9200
 - Murray State University – Paducah Regional Campus: 800-669-7654
 - Kentucky State Police, Post 1, Mayfield: 270-856-3721



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- Local Businesses
 - Plaza Tire Service: 270-442-2828
 - Hobby Lobby: 270-444-9275
 - Ulta Beauty: 270-442-8089
 - Shoe Carnival: 270-443-1401
 - David's Bridal: 270-442-2442
 - Old Navy: 270-442-7137
 - Canter Chiropractic & Rehab: 270-442-0110
 - Lowe's: 270-441-7000
 - Easy Money Shoppe: 270-443-2999
 - Aldi: 855-955-2534
 - Pier 1 Imports: 270-442-3928
 - Red Lobster: 270-443-5804
 - Captain D's: 270-442-9750
 - Fazoli's: 270-443-1632
 - Chuck-E-Cheeze's: 270-442-5114
 - Olive Garden: 270-442-4190
 - Chong's: 270-442-1710
 - Wendy's: 270-444-7622
 - Logan's Roadhouse: 270-442-1939
 - Los Amigos: 270-575-3285
 - Advance Auto Parts: 270-442-7980
 - Sleep Number: 270-443-8200
 - VapePark: 270-575-0001
 - GameStop & Cricket: 270-442-3850
 - Murphy, USA: 270-442-6227
 - Walmart: 270-444-0066
 - Steak N Shake: 270-575-4846
 - Kentucky Oaks Mall: 270-444-0440
 - Motel 6 Paducah: 270-443-3672
 - Cracker Barrel Old Country Store: 270-443-9331
 - Hardee's: 270-443-3687
 - Regions Bank: 800-734-4667
 - Sweet Cece's: 270-415-0409
 - Pet Smart: 270-575-9300
 - Books-A-Million: 270-443-6334
 - TJ Maxx: 270-444-8330
 - Office Depot: 270-575-9477
 - Brentley's Fine Cigars & Tobacco Barn: 270-442-7633
 - McAllister's Deli: 270-442-0203
 - AT&T: 270-444-0084
 - TGI Fridays: 270-415-9009
 - US Bank: 270-415-6942
 - Verizon: 270-444-9498
 - BP: 270-442-5296
 - Five Star Food Mart: 270-442-5296
 - Arby's: 270-443-7454



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TRAFFIC MANAGEMENT PLAN

- Plato's Closet Paducah: 270-575-0506
- Sleep Outfitters: 270-415-9229
- IHOP: 270-538-5244
- The Home Depot: 270-442-0817
- Taco Bell: 270-442-8226
- Pizza Hut: 270-443-9922
- Super 8 Paducah, Kentucky: 270-908-2866
- Panera Bread: 270-442-0948
- Pear Tree Inn Paducah: 270-444-7200
- Thrifty Inn Paducah: 270-444-0157
- Texas Roadhouse: 270-442-7000
- Buffalo Wild Wings: 270-444-5795
- Drury Suites Paducah: 270-441-0024
- Quality Suites: 270-442-2080
- Country Inn & Suites by Carlson, Paducah, KY: 270-442-2201
- McBride Mack Truck Sales: 270-442-7545
- Outback Steakhouse: 270-442-4111
- Drury Inn Paducah: 270-443-3313
- Bob Evans: 270-442-8700
- Applebee's Neighborhood Grill & Bar: 270-575-3675
- Auburn Place Hotel & Suites Paducah: 270-444-7667
- Holiday Inn Express & Suites Paducah West: 270-442-8874
- Rafferty's: 270-442-1014
- McDonald's: 270-444-2044
- Burger King: 270-444-9162

Local Media Outlets

- The Paducah Sun: 270-575-8600
- West Kentucky Star: 270-554-8255
- News Station WPSD-TV 6: 270-415-1900
- News Station WKPD-TV 41 (KET): 859-258-7244
- Radio Station WBEL 88.5: 662-844-8888
- Radio Station WGCF 89.3: 662-844-8888
- Radio Station WKYP 90.1: 800-525-5683
- Radio Station WKMS 91.3: 270-809-6793
- Radio Station W223BO (WKMS) 92.5: 270-809-6793
- Radio Station WNFC 91.7: 800-408-8888
- Radio Station WKYX 94.3: 270-554-8255
- Radio Station WKYX 570: 270-554-8255
- Radio Station WKYQ 93.3: 270-444-6397
- Radio Station WZYK 94.7: 270-444-6397
- Radio Station WDDJ 96.9: 270-444-6397
- Radio Station WPAD 1560: 270-444-6397
- Radio Station W258AN (WPAD-AM) 99.5: 270-444-6397
- Radio Station WLLE 102.1: 270-444-6397
- Radio Station WJLI 98.3: 270-442-0098



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- Radio Station WCBL 99.1: 270-527-3102
- Radio Station WFGS 103.7: 270-753-2400
- Radio Station WREZ 105.5: 270-538-5251
- Radio Station W266CO (WREZ) 101.1: 270-538-5251
- Radio Station WZZL 106.7: 270-415-0599
- Radio Station WVPK (LPFM) 107.7: 270-201-2851
- Radio Station WRIK 750: 618-564-2171
- Radio Station W248CP (WRIK-AM) 97.5: 618-564-2171
- Radio Station W277CH (WRIK-AM) 103.3: 618-564-2171
- Radio Station WMOK 920: 618-524-4400
- Radio Station W284CG (WMOK-AM) 104.7: 618-524-4400
- Radio Station WCBL 1290: 270-527-3102
- Radio Station WDXR 1450: 270-554-8255
- Radio Station W273CH (WDXR-AM) 102.5: 270-554-8255

Prior to Construction

- The contractor will prepare and submit a detailed traffic management plan to the engineer for review and approval. This plan will include, but not be limited to: a public information plan to be implemented before and during construction; maintenance of traffic procedures and signage; flagging and traffic control personnel and equipment; debris clean-up crews and equipment; construction equipment to be used on and around road work; passage or restriction of wide loads; and safety of traffic and construction personnel.
- Contact will be made to all stakeholders to inform them of the time the construction will begin, the expected times and dates of roadway and lane closures, and any other anticipated impacts to travel and access. This contact is to be made sufficiently ahead of time to allow each stakeholder time to adjust to the changes.
- A public information campaign, utilizing local media outlets, portable changeable message boards, and other methods will be made to inform the traveling public at large of the impending construction. The information should include: anticipated lane closures, roadway closures, and the dates and times they are expected.
- Anticipated times of lane restrictions and total closures should be adjusted, if necessary, to accommodate special needs of the stakeholders or public at large.

During Construction

- The public information campaign will continue, using the same methods as prior to construction. Updates to travel impacts will be made, including those times which no closures are anticipated (such as periods of construction inactivity and holidays).
- A contact name and number will be provided to all identified stakeholders to allow for individual updates and information during regular business hours. A 24-hour, 7-days a week name and number will also be made available for contact in emergency situations.
- The Engineer and contractor will regularly review both the public information campaign and maintenance of traffic plan to ensure the needs and safety of the public are being met. This would include both method and timing of traffic management procedures.



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- In addition to the normal placement of signs, variable message boards should be placed well in advance of the project to forewarn long-distance travelers who may not have had advance warning through local media.



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2) Temporary Traffic Control Plan (For Each Phase of Construction)	
Phase 1	
Exposure Control Measures	Positive Protection Measures
a) Is Road Closure Allowed Type: Referenced	a) Address Drop Off Protection Criteria Referenced
b) Detour Conditions N/A	b) Temporary Barrier Requirements Referenced
c) Working Hour Restrictions Referenced	c) Evaluation of Existing Guardrail Conditions Referenced
d) Holiday or Special Event Work Restrictions Referenced	d) Address Temporary Drainage Referenced
e) Evaluation of Intersection LOS N/A	Uniformed Law Enforcement Officers N/A
f) Evaluation of Queue Lengths N/A	Payment for Traffic Control*
g) Evaluation of User Costs and Incentives/Disincentives N/A	a) Method of Project Bidding Referenced
h) Address Pedestrians, Bikes, Mass Transit Referenced	b) Special Notes Referenced
Work Vehicles and Equipment Referenced	*Payment for traffic control items shall be in accordance with the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction
Comments:	
<p>Remove existing shoulders and construct new drainage, curb and gutter, and pavement on the outside of US 60 in each direction west of James Sanders Blvd.</p> <p>Complete construction of raised median and island on James Sanders Blvd. first to allow for free-flow right movement from US 60.</p> <p>Reduce US 60 lane widths to allow for removal of existing shoulders and construction of new pavement on the outside in each direction.</p> <p>Alternate shoulder closures on the ramps to construct widening of the ramps during this phase.</p> <p>Construct all new pavement that will not conflict with maintaining existing traffic flows.</p> <p>Remove existing Ramp B and Ramp D raised islands and replace with temporary flush pavement to be used during future construction phases.</p>	



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2) Temporary Traffic Control Plan (For Each Phase of Construction)	
Phase 2	
Exposure Control Measures	Positive Protection Measures
a) Is Road Closure Allowed Type: Referenced	a) Address Drop Off Protection Criteria Referenced
b) Detour Conditions N/A	b) Temporary Barrier Requirements Referenced
c) Working Hour Restrictions Referenced	c) Evaluation of Existing Guardrail Conditions Referenced
d) Holiday or Special Event Work Restrictions Referenced	d) Address Temporary Drainage Referenced
e) Evaluation of Intersection LOS N/A	Uniformed Law Enforcement Officers N/A
f) Evaluation of Queue Lengths N/A	Payment for Traffic Control*
g) Evaluation of User Costs and Incentives/Disincentives N/A	a) Method of Project Bidding Referenced
h) Address Pedestrians, Bikes, Mass Transit Referenced	b) Special Notes Referenced
Work Vehicles and Equipment Referenced	*Payment for traffic control items shall be in accordance with the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction
Comments:	
<p>Remove existing raised islands from entrances along right side of US 60.</p> <p>Shift traffic through the interchange to the outside in each direction.</p> <p>First, remove the existing raised medians from Sta. 195+45 to Sta. 196+70 and from Sta. 203+90 to Sta. 205+05 and replace with proposed pavement.</p> <p>Temporary pavement may be required to maintain left turn movements at the ramps. Relocate existing signal heads, as needed, to align with shifted traffic flow.</p> <p>Complete construction of the proposed US 60 raised median.</p> <p>** - Complete construction of Ramps A and C by closing ramps on separate weekends / nights. Complete construction of Ramp B utilizing alternating lane closures.</p> <p>** - See Page 12 for Alternative Traffic Control Notes and Construction Sequencing.</p>	



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2) Temporary Traffic Control Plan (For Each Phase of Construction)	
Phase 3	
Exposure Control Measures	Positive Protection Measures
a) Is Road Closure Allowed Type: Referenced	a) Address Drop Off Protection Criteria Referenced
b) Detour Conditions N/A	b) Temporary Barrier Requirements Referenced
c) Working Hour Restrictions Referenced	c) Evaluation of Existing Guardrail Conditions Referenced
d) Holiday or Special Event Work Restrictions Referenced	d) Address Temporary Drainage Referenced
e) Evaluation of Intersection LOS N/A	Uniformed Law Enforcement Officers N/A
f) Evaluation of Queue Lengths N/A	Payment for Traffic Control*
g) Evaluation of User Costs and Incentives/Disincentives N/A	a) Method of Project Bidding Referenced
h) Address Pedestrians, Bikes, Mass Transit Referenced	b) Special Notes Referenced
Work Vehicles and Equipment Referenced	*Payment for traffic control items shall be in accordance with the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction
Comments:	
Shift US 60 traffic west of James Sanders Blvd. to previously constructed outside lanes and construct the raised barrier median on US 60 and paint the flush islands in the entrances along US 60.	
** - Close Ramp D for a period of one weekend to construct the remaining portions of the ramp.	
** - See Page 12 for Alternative Traffic Control Notes and Construction Sequencing.	



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2) Temporary Traffic Control Plan (For Each Phase of Construction)	
Phase 4	
Exposure Control Measures	Positive Protection Measures
a) Is Road Closure Allowed Type: Referenced	a) Address Drop Off Protection Criteria Referenced
b) Detour Conditions N/A	b) Temporary Barrier Requirements Referenced
c) Working Hour Restrictions Referenced	c) Evaluation of Existing Guardrail Conditions Referenced
d) Holiday or Special Event Work Restrictions Referenced	d) Address Temporary Drainage Referenced
e) Evaluation of Intersection LOS N/A	Uniformed Law Enforcement Officers N/A
f) Evaluation of Queue Lengths N/A	Payment for Traffic Control*
g) Evaluation of User Costs and Incentives/Disincentives Referenced	a) Method of Project Bidding Referenced
h) Address Pedestrians, Bikes, Mass Transit Referenced	b) Special Notes Referenced
Work Vehicles and Equipment Referenced	*Payment for traffic control items shall be in accordance with the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction
Comments:	
<p>This is the Phase of construction when traffic will be switched to the DCD configuration.</p> <p>** - During this Phase of construction, the contractor will be allocated one weekend to close US 60, within the interchange, to finalize construction.</p> <p>During this period, install proposed traffic signals and complete temporary striping in final striping configuration. Once the proposed DCD traffic signals are operational, traffic shall be switched to the ultimate DCD configuration.</p> <p>Complete construction of the proposed ramp islands once traffic has been switched.</p> <p>** - See Page 12 for Alternative Traffic Control Notes and Construction Sequencing.</p>	



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2) Temporary Traffic Control Plan (For Each Phase of Construction)	
Phase 5	
Exposure Control Measures	Positive Protection Measures
a) Is Road Closure Allowed Type: N/A	a) Address Drop Off Protection Criteria Referenced
b) Detour Conditions N/A	b) Temporary Barrier Requirements Referenced
c) Working Hour Restrictions Referenced	c) Evaluation of Existing Guardrail Conditions Referenced
d) Holiday or Special Event Work Restrictions Referenced	d) Address Temporary Drainage Referenced
e) Evaluation of Intersection LOS N/A	Uniformed Law Enforcement Officers N/A
f) Evaluation of Queue Lengths N/A	Payment for Traffic Control*
g) Evaluation of User Costs and Incentives/Disincentives N/A	a) Method of Project Bidding Referenced
h) Address Pedestrians, Bikes, Mass Transit Referenced	b) Special Notes Referenced
Work Vehicles and Equipment Referenced	*Payment for traffic control items shall be in accordance with the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction
Comments:	
Utilizing alternating lane closures, complete placement of asphalt surface and pavement overlay.	



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**** - ALTERNATIVE TRAFFIC CONTROL NOTES AND CONSTRUCTION SEQUENCING**

Contrary to the following Traffic Management Plan notes, see alternative notes below:

Page 8 – 6th Paragraph

Page 9 – 2nd Paragraph

Page 10 – 2nd Paragraph

- A. Between May 28 and August 11, 2019, the contractor is allowed to close the I-24 exit ramps, Ramps A and C, for a period of two weeks to complete construction of the proposed improvements on those ramps.
- B. After construction of the I-24 Ramps A and C is completed, and still between May 28 and August 11, 2019, the contractor is allowed to close US 60 within the interchange with I-24 from James Sanders Blvd. to Coleman Road for a total of four weeks to complete construction of the proposed interchange. Upon completion of the Double Crossover Diamond interchange, traffic shall not be switched to the ultimate configuration until six lanes, three lanes in both directions between James Sanders Blvd. and Coleman Road, and a minimum of four lanes through Section 1 are established.
- C. The contractor is allowed to maintain traffic on US 60 utilizing three lanes of traffic, one through lane in each direction with one left turn lane, during night time hours only and for the duration of the project.
- D. The contractor is allowed to close New Holt Road, James Sanders Boulevard, the Kentucky Oaks Mall entrance, and the Wal-Mart entrance to traffic for one week each to complete construction on these roads. The listed road closures shall occur on separate weeks, not concurrently. Only one road shall be closed to traffic at any given week.
- E. Instead of having to be on call 24 hours a day, 7 days a week for the project duration, the person designated as Traffic Coordinator for the project shall be available on-site only while workers are present at the project site.



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APPROVAL:



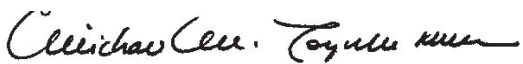
Project Manager 1-10-19
Date



Project Delivery and Preservation Manager 1/14/19
Date



Engineering Support Manager 1/14/19
Date



FHWA Representative Digitally signed by MICHAEL M
LOYSELLE
Date: 2019.01.15 07:36:01 -05'00'
Date

Revisions to the TMP require review/approval by the signatories.

GENERAL SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
McCRACKEN	I-154-00	R2K

ITEM CODE	ITEM	UNIT	US 60	JAMES SANDERS BLD	RAMPS A, A-1 & A-2	RAMPS B & B-1	RAMPS C, C-1 & C-2	RAMPS D & D-1	TOTAL PROJECT
78	CRUSHED AGGREGATE SIZE NO 2 (1)	TON							1,750
1690	FLUME INLET TY 1	EACH	2						2
1691	FLUME INLET TY 2	EACH	3					1	4
1791	ADJUST MANHOLE FRAME TO GRADE	EACH							(2) 7
1792	ADJUST MANHOLE	EACH							2
1811	STANDARD CURB AND GUTTER MOD	LF	7,079		237	358	201	253	8,128
1875	STANDARD HEADER CURB	LF	123	181					304
1919	STANDARD BARRIER MEDIAN TYPE 3	SO YD	171	409					580
1921	STANDARD BARRIER MEDIAN TYPE 4	SO YD	1,118						1,118
1982	DELINEATOR FOR GUARDRAIL M/W	EACH			7		2		9
1983	DELINEATOR FOR GUARDRAIL M/Y	EACH			4		4		8
2003	RELOCATE TEMP CONC BARRIER (3)	LF							2,000
2012	BARRICADE-TYPE I (1)(2)	EACH							9
2014	BARRICADE-TYPE III (1)(2)	EACH							7
2091	REMOVE PAVEMENT (ALL DEPTHS)	SO YD	235						235
2159	TEMP DITCH	LF							4,605
2160	CLEAN TEMP DITCH	LF							13,815
2230	EMBANKMENT IN PLACE (A)	CU YD							14,985
2237	DITCHING (4)	LF	154			383			537
2242	WATER (6)	MGAL							87
2351	GUARDRAIL-STEEL W BEAM-S FACE	LF			525		275		800
2367	GUARDRAIL END TREATMENT TYPE 1	EACH	1		1				1
2369	GUARDRAIL END TREATMENT TYPE 2A	EACH			2		2		4
2381	REMOVE GUARDRAIL (5)	LF			337.5		200	50	537.5
2383	REMOVE & RESET GUARDRAIL	LF							50
2483	CHANNEL LINING CLASS II	TON							284
2545	CLEARING AND GRUBBING (7)	LS							1
2555	CONCRETE-CLASS B (FOR GRAVITY RETAINING WALLS)	CU YD	30						30
2562	TEMPORARY SIGNS (1)(2)	SOFT							961.5
2568	MOBILIZATION	LS							1
2569	DEMOLITION	LS							1
2585	EDGE KEY	LF	267		26	30	46	29	398
2587	HOOK BOLT WITH EXPAN ANCHOR	EACH	110						110
2599	FABRIC-GEOTEXTILE TYPE IV (1)	SO YD							2,300
2600	FABRIC GEOTEXTILE TY IV FOR PIPE	SO YD							12,965
2613	HANDRAIL-TYPE A-3	LF	73						73
2650	MAINTAIN AND CONTROL TRAFFIC	LS							1
2671	PORTABLE CHANGEABLE MESSAGE SIGN (1)(2)	EACH							10
2676	MOBILIZATION FOR MILL & TEXT	LF							1
2696	SHOULDER RUMBLE STRIPS-SAWED	LS			1,093	363	822	450	2,728
2701	TEMP SILT FENCE	LF							4,605
2703	SILT TRAP TYPE A	EACH							14
2704	SILT TRAP TYPE B	EACH							14
2705	SILT TRAP TYPE C	EACH							14
2706	CLEAN SILT TRAP TYPE A	EACH							84
2707	CLEAN SILT TRAP TYPE B	EACH							84
2708	CLEAN SILT TRAP TYPE C	EACH							84
2720	SIDEWALK-4 INCH CONCRETE	SO YD	297						297
2726	STAKING	LS							1
2775	ARROW PANEL (1)(2)	EACH							4
2898	RELOCATE CRASH CUSHION (3)	EACH							4
2998	MASONRY COATING	SO YD	70						70
3171	CONCRETE BARRIER WALL TYPE 9T (3)	LF							2,000
5950	EROSION CONTROL BLANKET	SO YD							3,788
5952	TEMP MULCH	SO YD							69,843
5953	TEMP SEEDING AND PROTECTION	SO YD							6,984
5963	INITIAL FERTILIZER	TON							2.4
5964	20-10-10 FERTILIZER	TON							4
5985	SEEDING AND PROTECTION	SO YD							69,843
5990	SODDING	SO YD			183	295	208	182	8,142
5992	AGRICULTURAL LIMESTONE	TON							48
6401	FLEXIBLE DELINEATOR POST-M/W	EACH							(9) 75
6404	FLEXIBLE DELINEATOR POST-M/Y	EACH							(9) 75
6510	PAVE STRIPING-TEMP PAINT-4 IN (1)(6)	LF	66,940						66,940

ITEM CODE	ITEM	UNIT	US 60	JAMES SANDERS BLD	RAMPS A, A-1 & A-2	RAMPS B & B-1	RAMPS C, C-1 & C-2	RAMPS D & D-1	TOTAL PROJECT
6511	PAVE STRIPING-TEMP PAINT-6 IN (1)(6)	LF		2,568	4,964	1,496	4,090	902	14,020
6514	PAVE STRIPING-PERM PAINT-4 IN	LF	23,804	9,711					33,515
6515	PAVE STRIPING-PERM PAINT-6 IN	LF	167		1,110	2,192	1,102		6,909
6516	PAVE STRIPING-PERM PAINT-8 IN	LF	1,376	1,464					2,840
6517	PAVE STRIPING-PERM PAINT 12 IN	LF			160				320
6566	PAVE MARKING-THERMO X-WALK-12 IN	LF			350	122			472
6568	PAVE MARKING-THERMO STOP BAR-24IN	LF	647	115	77		69		908
6570	PAVE MARKING-PAINT CROSS-HATCH	SO FT	912	551					1,463
6572	PAVE MARKING-DOTTED LANE EXTEN	LF	683						683
6573	PAVE MARKING-THERMO STR ARROW	EACH	47	2					49
6574	PAVE MARKING-THERMO CURV ARROW	EACH	48	16	14		22		100
6575	PAVE MARKING-THERMO COMB ARROW	EACH	30	4	1		1		36
6576	PAVE MARKING-THERMO ONLY	EACH	4	3					7
6583	PAVEMENT MARKER TYPE IV-B W/R	EACH	85						85
6584	PAVEMENT MARKER TYPE IV-B Y/R	EACH	142		9	11	7	12	181
6600	REMOVE PAVEMENT MARKER TYPE V	EACH							544
8001	STRUCTURE EXCAVATION-COMMON	CU YD	37						37
8100	CONCRETE CLASS A (FOR MEDIANS)	CU YD	319						319
8100	CONCRETE-CLASS A (FOR CONCRETE MEDIAN BARRIER END COND. NO. 2)	CU YD	8.14						8.14
8100	CONCRETE-CLASS A (FOR CRASH WALL)	CU YD	42.50						42.50
8150	STEEL REINFORCEMENT	LB							(10) 509
8151	STEEL REINFORCEMENT-EPOXY COATED	LB	2,022						2,022
8902	CRASH CUSHION TY VI CLASS B TL3	EACH	2						2
8903	CRASH CUSHION TY VI CLASS BT TL3 (3)	EACH							4
10020NS	FUEL ADJUSTMENT	DOLL							39,467
10030NS	ASPHALT ADJUSTMENT	DOLL							78,215
2007IEC	JOINT ADHESIVE	LF							38,671
2009ES842	PAVE MARK TEMP PAINT STOP BAR (1)	LF							264
2019IED	OBJECT MARKER TY 3	EACH			1				1
2041IED	LAW ENFORCEMENT OFFICER	HOURL							5040
20430ED	SAW CUT (3)	LF	13,336		650	577	970	20	15,553
22520EN	PAVE MARKING-THERMO YIELD BAR-36 IN	LF			18			18	36
22664EN	WATER BLASTING EXISTING STRIPE	LF							24,000
22861EN	HIGH STRENGTH GEOTEXTILE FABRIC TY V (1)	SO YD							1,200
23143ED	KPDES PERMIT AND TEMP EROSION CONTROL	LS							1
23158ES505	DETECTABLE WARNINGS	SO FT	194		40				274
23274ENIUF	TURF REINFORCEMENT MAT 1	SO YD							846
23791EC	PAVE STRIPING-CHEVRON MARKINGS	SO FT	95	250					345
24109EC	BARRIER CURB AND GUTTER-MOD	LF	4,388		297	419	254	354	5,712
24110EC	PERM PAINT-BARRIER CURB	LF	4,366		280	409	240	338	5,633
24489EC	INLAID PAVEMENT MARKER	EACH	614	124	64	29	65	25	921
24631EC	BARCODE SIGN INVENTORY	EACH							(9) 105
24640ED	OBJECT MARKER TYPE 1	EACH	2						2
24814EC	PIPELINE INSPECTION	LF							4,024

NOTES:

- ① FOR MAINTENANCE OF TRAFFIC.
- ② THE QUANTITIES FOR THESE ITEMS INCLUDE INITIAL PLACEMENT ONLY. ANY RELOCATION REQUIRED WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL.
- ③ FOR FULL-DEPTH PAVEMENT ADJACENT TO EXISTING PAVEMENT.
- ④ DITCHING INTENDED FOR CLEANING AND REGRADING OF ROADSIDE DITCHES, REPAIR OF PIPE OUTLET DITCHES, AND CLEANING OF DRAINAGE STRUCTURES TO RESTORE POSITIVE DRAINAGE. ANY EMBANKMENT AND REGRADING REQUIRED IS INCIDENTAL TO DITCHING.
- ⑤ DISMANTLE, SALVAGE, AND STOCKPILE AS DIRECTED BY THE ENGINEER. SALVAGED ITEMS SHALL BECOME THE PROPERTY OF THE DEPARTMENT OF HIGHWAYS.
- ⑥ TEMPORARY STRIPING TAPE MAY BE USED INSTEAD OF TEMPORARY PAINT, BUT WILL BE PAID AT THE CONTRACT UNIT PRICE FOR TEMPORARY PAINT.
- ⑦ APPROXIMATELY 14.37 ACRES
- ⑧ FOR CONTROLLING DUST CAUSED BY MAINTAINING TRAFFIC ONLY
- ⑨ TOTAL CARRIED OVER FROM SIGNING QUANTITIES
- ⑩ TOTAL INCLUDES 183 LBS CARRIED OVER FROM PIPE DRAINAGE SUMMARY
- ⑪ LOCATIONS ARE NOT NOTED IN THE PLANS, TO BE USED AS DIRECTED BY ENGINEER
- ⑫ TOTAL INCLUDES 3 STORM SEWER MANHOLES CARRIED OVER FROM PIPE DRAINAGE SUMMARY
- ⑬ FOR MAINTENANCE OF TRAFFIC, IF NEEDED, AND UPON APPROVAL OF THE ENGINEER

(A) EARTHWORK TOTALS

EMBANKMENT ----- 14,985 CU YD
 ROADWAY EXCAVATION ----- 12,931 CU YD

NOTE: ESTIMATE FOR EARTHWORK CALCULATIONS FOR DESIGN 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.

GENERAL SUMMARY

GENERAL SUMMARY

REVISED 1-22-19

COUNTY OF McCRACKEN	ITEM NO. 1-154.00	SHEET NO. R2K
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ITEM CODE	ITEM	UNIT	US 60	JAMES SANDERS BLD	RAMPS A, A-1 & A-2	RAMPS B & B-1	RAMPS C, C-1 & C-2	RAMPS D & D-1	TOTAL PROJECT
78	CRUSHED AGGREGATE SIZE NO 2 (1)	TON							1,750
1690	FLUME INLET TY 1	EACH	2						2
1691	FLUME INLET TY 2	EACH	3					1	4
1791	ADJUST MANHOLE FRAME TO GRADE	EACH							(2) 7
1792	ADJUST MANHOLE	EACH							2
1811	STANDARD CURB AND GUTTER MOD	LF	7,079		237	358	201	253	8,128
1875	STANDARD HEADER CURB	LF	123	181					304
1919	STANDARD BARRIER MEDIAN TYPE 3	SO YD	171	409					580
1921	STANDARD BARRIER MEDIAN TYPE 4	SO YD	1,118						1,118
1982	DELINEATOR FOR GUARDRAIL M/W	EACH			7		2		9
1983	DELINEATOR FOR GUARDRAIL M/Y	EACH			4		4		8
2003	RELOCATE TEMP CONC BARRIER (3)	LF	2,000						2,000
2012	BARRICADE-TYPE I (1)(2)	EACH							9
2014	BARRICADE-TYPE III (1)(2)	EACH							7
2091	REMOVE PAVEMENT (ALL DEPTHS)	SO YD	235						235
2159	TEMP DITCH	LF							4,605
2160	CLEAN TEMP DITCH	LF							13,815
2230	EMBANKMENT IN PLACE (A)	CU YD							14,985
2237	DITCHING (4)	LF	154			383			537
2242	WATER (6)	MGAL							87
2351	GUARDRAIL-STEEL W BEAM-S FACE	LF			525		275		800
2367	GUARDRAIL END TREATMENT TYPE 1	EACH	1		1				1
2369	GUARDRAIL END TREATMENT TYPE 2A	EACH			2		2		4
2381	REMOVE GUARDRAIL (5)	LF	537.5		337.5		200	50	537.5
2383	REMOVE & RESET GUARDRAIL	LF							50
2483	CHANNEL LINING CLASS II	TON							284
2545	CLEARING AND GRUBBING (7)	LS							1
2555	CONCRETE-CLASS B (FOR GRAVITY RETAINING WALLS)	CU YD	30						30
2562	TEMPORARY SIGNS (1)(2)	SOFT							961.5
2568	MOBILIZATION	LS							1
2569	DEMobilIZATION	LS							1
2585	EDGE KEY	LF	267		26	30	46	29	398
2587	HOOK BOLT WITH EXPAN ANCHOR	EACH	110						110
2599	FABRIC-GEOTEXTILE TYPE IV (1)	SO YD							2,300
2600	FABRIC GEOTEXTILE TY IV FOR PIPE	SO YD							12,965
2613	HANDRAIL-TYPE A-3	LF	73						73
2650	MAINTAIN AND CONTROL TRAFFIC	LS							1
2671	PORTABLE CHANGEABLE MESSAGE SIGN (1)(2)	EACH							10
2676	MOBILIZATION FOR MILL & TEXT	LF							1
2696	SHOULDER RUMBLE STRIPS-SAWED	LS			1,093	363	822	450	2,728
2701	TEMP SILT FENCE	LF							4,605
2703	SILT TRAP TYPE A	EACH							14
2704	SILT TRAP TYPE B	EACH							14
2705	SILT TRAP TYPE C	EACH							14
2706	CLEAN SILT TRAP TYPE A	EACH							84
2707	CLEAN SILT TRAP TYPE B	EACH							84
2708	CLEAN SILT TRAP TYPE C	EACH							84
2720	SIDEWALK-4 INCH CONCRETE	SO YD	297						297
2726	STAKING	LS							1
2775	ARROW PANEL (1)(2)	EACH							4
2898	RELOCATE CRASH CUSHION (3)	EACH							4
2998	MASONRY COATING	SO YD	70						70
3171	CONCRETE BARRIER WALL TYPE 9T (3)	LF							2,000
5950	EROSION CONTROL BLANKET	SO YD							3,788
5952	TEMP MULCH	SO YD							69,843
5953	TEMP SEEDING AND PROTECTION	SO YD							6,984
5963	INITIAL FERTILIZER	TON							2.4
5964	20-10-10 FERTILIZER	TON							4
5985	SEEDING AND PROTECTION	SO YD							69,843
5990	SODDING	SO YD			183	295	208	182	8,142
5992	AGRICULTURAL LIMESTONE	TON							48
6401	FLEXIBLE DELINEATOR POST-M/W	EACH							(9) 75
6404	FLEXIBLE DELINEATOR POST-M/Y	EACH							(9) 75
6510	PAVE STRIPING-TEMP PAINT-4 IN (1)(6)	LF	66,940						66,940

ITEM CODE	ITEM	UNIT	US 60	JAMES SANDERS BLD	RAMPS A, A-1 & A-2	RAMPS B & B-1	RAMPS C, C-1 & C-2	RAMPS D & D-1	TOTAL PROJECT
6511	PAVE STRIPING-TEMP PAINT-6 IN (1)(6)	LF		2,568	4,964	1,496	4,090	902	14,020
6514	PAVE STRIPING-PERM PAINT-4 IN	LF	23,804	9,711					33,515
6515	PAVE STRIPING-PERM PAINT-6 IN	LF	167		2,338	1,110	2,192	1,102	6,909
6516	PAVE STRIPING-PERM PAINT-8 IN	LF	1,376	1,464					2,840
6517	PAVE STRIPING-PERM PAINT 12 IN	LF			160				320
6566	PAVE MARKING-THERMO X-WALK-12 IN	LF			350	122			472
6568	PAVE MARKING-THERMO STOP BAR-24IN	LF	647	115	77		69		908
6570	PAVE MARKING-PAINT CROSS-HATCH	SO FT	912	551					1,463
6572	PAVE MARKING-DOTTED LANE EXTEN	LF	683						683
6573	PAVE MARKING-THERMO STR ARROW	EACH	47	2					49
6574	PAVE MARKING-THERMO CURV ARROW	EACH	48	16	14		22		100
6575	PAVE MARKING-THERMO COMB ARROW	EACH	30	4	1		1		36
6576	PAVE MARKING-THERMO ONLY	EACH	4	3					7
6584	PAVEMENT MARKER TYPE IV-B Y/R	EACH	85						85
6600	REMOVE PAVEMENT MARKER TYPE V	EACH	142		9	11	7	12	181
8001	STRUCTURE EXCAVATION-COMMON	CU YD	37						544
8100	CONCRETE CLASS A (FOR MEDIANS)	CU YD	319						319
8100	CONCRETE-CLASS A (FOR CONCRETE MEDIAN BARRIER END COND. NO. 2)	CU YD	8.14						8.14
8100	CONCRETE-CLASS A (FOR CRASH WALL)	CU YD	42.50						42.50
8150	STEEL REINFORCEMENT	LB							(10) 509
8151	STEEL REINFORCEMENT-EPOXY COATED	LB	2,022						2,022
8902	CRASH CUSHION TY VI CLASS B TL3	EACH	2						2
8903	CRASH CUSHION TY VI CLASS BT TL3 (3)	EACH							39,467
10020NS	FUEL ADJUSTMENT	DOLL							78,215
2007IEC	ASPHALT ADJUSTMENT	DOLL							38,671
2009ES842	PAVE MARK TEMP PAINT STOP BAR (1)	LF							264
2019IED	OBJECT MARKER TY 3	EACH							1
2041IED	LAW ENFORCEMENT OFFICER	HOURL	15,336						5040
20430ED	SAW CUT (3)	LF			650	577	370	20	15,553
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GENERAL SUMMARY

MAINTENANCE OF TRAFFIC NOTES

COUNTY OF	ITEM NO.	SHEET NO.
McCRACKEN	1-154.00	R71

PHASE III CONSTRUCTION

SECTION 1 - FROM THE PROJECT BEGINNING TO THE JAMES SANDERS BOULEVARD INTERSECTION SHIFT US 60 TRAFFIC LANES TO PREVIOUSLY CONSTRUCTED OUTSIDE LANES AND CONSTRUCT RAISED BARRIER MEDIAN ON US 60 AND PAINTED ISLANDS IN THE ENTRANCES.

LEAVE THE TOP 1.5 INCH ASPHALT SURFACE TO BE COMPLETED IN THE LAST PHASE OF THE PROJECT.

- * - NON-ESSENTIAL WORK ITEMS ON THIS SECTION CAN BE COMPLETED DURING LATER PHASES. HOWEVER, PHASE III WORK SHALL BE SUBSTANTIALLY COMPLETED, WITH THE ULTIMATE NUMBER OF LANES OPEN TO TRAFFIC, TEMPORARY STRIPING DEPICTING THE FINAL STRIPING CONFIGURATION AS SHOWN IN THE ULTIMATE STRIPING PLANS. ULTIMATE SIGNING IN PLACE, FINAL PROJECT LIGHTING AND THE FINAL PROPOSED SIGNALS IN OPERATION ALONG THIS SECTION, BEFORE THE CROSSOVER INTERSECTIONS CAN BE OPENED TO TRAFFIC IN ITS ULTIMATE CONFIGURATION AT THE BEGINNING OF PHASE IV.

SECTION 2 - FROM THE JAMES SANDERS BOULEVARD INTERSECTION TO PROJECT END FIRST, OPEN NEWLY-CONSTRUCTED RAMPS A AND C TO TRAFFIC.

PHASE III WORK ALONG THIS SECTION SHALL CONSIST OF THE COMPLETION OF ANY REMAINING DRAINAGE ITEMS, RAISED MEDIANS, REMAINING PORTIONS OF THE PROPOSED GRADING, CONSTRUCTION OF ANY REMAINING PORTIONS OF MILLING AND LEVELING AND WEDGING FOR CROSS SLOPE CORRECTION, AND TEMPORARY STRIPING. THIS WORK SHALL BE PERFORMED USING MOVEABLE LANE CLOSURE OPERATIONS WITH FLAGGERS AND SHALL BE PERFORMED DURING PERIODS OF LOW TRAFFIC FLOW OR AT TIMES APPROVED BY THE ENGINEER. TEMPORARY STRIPING SHALL BE PLACED AS NEEDED DURING THESE OPERATIONS AND AT ANY TIME WORK CEASES.

WHEN THE TEMPORARY STRIPING IS IN PLACE, SHIFT TRAFFIC TOWARDS THE OUTER LANES ON BOTH EASTBOUND AND WESTBOUND DIRECTIONS AS SHOWN IN THE PLANS, AWAY FROM THE PROPOSED CENTER RAISED MEDIANS. AT THIS POINT, TRAFFIC IS STILL BEING MAINTAINED UNDER THE NORMAL DIAMOND INTERCHANGE CONFIGURATION, SIMILARLY TO THE EXISTING CONFIGURATION.

MAINTAIN THE EXISTING OR TEMPORARY SIGNALS IN PLACE TO CONTROL INTERCHANGE TRAFFIC AT THE END OF THE RAMPS DURING PHASE III WORK. INSTALL ALL PROPOSED SIGNAL MAST ARM ASSEMBLIES FOR THE CROSSOVER INTERSECTIONS (EXCEPT FOR PROPOSED SIGNALS 56 FEET RT. OF STA. 204+02 AND 49 FEET RT. OF STA. 204+57.) INTENDED FOR THE ULTIMATE CONFIGURATION. TEMPORARY CRASH CUSHIONS MAY BE UTILIZED TO PROTECT THE PROPOSED CROSSOVER SIGNAL MAST ARM POLES AND BASES IN THE FUTURE EXIT RAMP ISLANDS, UNTIL TRAFFIC IS SHIFTED TO THE ULTIMATE CONFIGURATION AND THE RAMP ISLAND CURBS HAVE BEEN CONSTRUCTED.

- * - DURING PHASE III, RAMP 'D' MAY BE CLOSED INDEPENDENTLY FOR A PERIOD OF ONE EXTENDED WEEKEND OR AT THE DISCRETION OF THE ENGINEER BEGINNING AT 7:00 PM FRIDAY UNTIL THE FOLLOWING MONDAY AT 6:00 AM. REMOVE THE EXISTING PAVEMENT AND CONSTRUCT THE REMAINING PORTIONS OF RAMP D AND D-1, AS DEPICTED IN THE MAINTENANCE OF TRAFFIC PLAN. LIQUIDATED DAMAGES OF \$5000.00/HOUR WILL BE ASSESSED UNTIL THESE ITEMS OF WORK ARE COMPLETE AND THE RAMPS REOPENED.

PHASE IV CONSTRUCTION

* - PHASE IV WORK INVOLVES FINAL CONSTRUCTION ITEMS WITHIN THE LIMITS OF THE CROSSOVER INTERSECTIONS. DURING THIS PHASE, THE CONTRACTOR WILL BE ALLOCATED ONE WEEKEND BEGINNING AT 7:00 PM FRIDAY AND ENDING AT 6:00 AM MONDAY TO CLOSE THE SECTION OF US 60 MAINLINE ROADWAY FROM THE JAMES SANDERS BOULEVARD INTERSECTION TO THE COLEMAN ROAD INTERSECTION. DURING THIS PERIOD THE CONTRACTOR SHALL COMPLETE ANY ITEMS THAT WERE LEFT INCOMPLETE DURING PREVIOUS PHASES OF THE PROJECT TO FACILITATE ULTIMATE TRAFFIC CONTROL OPERATIONS. THE FINAL STAGE OF THIS PHASE INCLUDES THE PLACEMENT OF A 0.5" SCRATCH COURSE. THIS COURSE SHALL BE PLACED OVER MAINLINE US 60 AND THE ENTRANCE AND EXIT RAMPS TO I-24. THE SCRATCH COURSE WILL BE STRIPED WITH THE ULTIMATE TRAFFIC CONFIGURATION. WITH THE PROPOSED SIGNALIZATION OPERATIONAL, RE-OPEN THE ROADWAY AND ROUTE TRAFFIC INTO THE PROPOSED PATTERNS. LIQUIDATED DAMAGES OF \$5000.00/HOUR WILL BE ASSESSED UNTIL THESE ITEMS OF WORK ARE COMPLETE.

CONSTRUCTION ITEMS TO BE BUILT DURING THIS PHASE INCLUDE REMAINING SECTIONS OF BARRIER CURB AND GUTTER ALONG THE RAMP ISLANDS, CURB BOX INLETS AND PIPE RUNS LOCATED ON THE MAINLINE SIDE OF THE RAMP ISLANDS, PLACEMENT OF ASPHALT SCRATCH COURSE. TEMPORARY STRIPING DEPICTING THE FINAL STRIPING CONFIGURATION AS SHOWN ON THE ULTIMATE STRIPING PLANS, AND THE ULTIMATE SIGNALIZATION, LIGHTING AND SIGNING FOR THE PROJECT. ALL THE ITEMS LISTED ARE FOR THE INTENDED FINAL NUMBER OF LANES AS SHOWN ON THE PLANS FOR THE ENTIRE PROJECT INCLUDING THE CROSSOVER INTERSECTIONS. THE CONTRACTOR IS ADVISED THAT NO LANE CLOSURES SHALL BE ALLOWED DURING REGULAR TRAFFIC OPERATION HOURS ONCE THE ULTIMATE CROSSOVER INTERCHANGE CONFIGURATION IS OPEN TO TRAFFIC AT THE END OF THE WEEKEND CLOSURE PERIOD.

AFTER THE INTERCHANGE HAS BEEN SWITCHED TO THE ULTIMATE DOUBLE CROSSOVER DIAMOND CONFIGURATION WITH ALL LANES OPEN (ALL LANES OPEN TO TRAFFIC THROUGH THE DCD INTERCHANGE FROM JAMES SANDERS BOULEVARD TO COLEMAN ROAD), WORK CAN THEN PROCEED ON THE REMAINING WORK ITEMS WITHIN THE OUTER ISLANDS AT THE BOTTOM OF RAMPS. REMAINING ITEMS LEFT TO BE BUILT AT THIS STAGE INCLUDE SECTIONS OF SHARED-USED PATH WITHIN THE ISLAND LIMITS, AND FINAL GRADING AND SODDING INSIDE THE ISLANDS.

PHASE V CONSTRUCTION

FINAL SURFACING FOR THE PROJECT ALONG WITH PERMANENT STRIPING AND PAINTING OF THE CURBS SHALL BE COMPLETED DURING THIS STAGE. THIS WORK SHALL BE PERFORMED USING MOVEABLE LANE CLOSURE OPERATIONS WITH FLAGGERS AND SHALL BE PERFORMED DURING PERIODS OF LOW TRAFFIC FLOW OR AT TIMES APPROVED BY THE ENGINEER. IF TEMPORARY STRIPING IS NECESSARY DURING THESE OPERATIONS OR AT ANY TIME WORK CEASES, IT SHALL BE NOT BE MEASURED FOR PAYMENT. NO TEMPORARY STRIPING WILL BE ALLOWED ON FINAL SURFACES UNLESS IT IS PLACED IN THE FINAL STRIPING CONFIGURATION.

* - ALTERNATIVE TRAFFIC CONTROL NOTES AND CONSTRUCTION SEQUENCING

CONTRARY TO THE FOLLOWING MAINTENANCE OF TRAFFIC NOTES, SEE ALTERNATIVE NOTES BELOW:

SHEET R69 - NOTE 3
SHEET R69 - NOTE 7
SHEET R69 - NOTE 21
SHEET R69 - TRAFFIC COORDINATOR
SHEET R70 - CONSTRUCTION SEQUENCING, FIRST PARAGRAPH
SHEET R70 - CONSTRUCTION SEQUENCING, PHASE II
SHEET R70 - CONSTRUCTION SEQUENCING, PHASE III
SHEET R71 - PHASE II CONSTRUCTION
SHEET R71 - PHASE III CONSTRUCTION
SHEET R71 - PHASE IV CONSTRUCTION
ALL MAINTENANCE OF TRAFFIC US 60 TYPICAL SECTIONS

A. BETWEEN MAY 28 AND AUGUST 11, 2019, THE CONTRACTOR IS ALLOWED TO CLOSE THE I-24 EXIT RAMPS, RAMPS A AND C, FOR A PERIOD OF TWO WEEKS TO COMPLETE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS ON THOSE RAMPS.

B. AFTER CONSTRUCTION OF THE I-24 RAMPS A AND C IS COMPLETED, AND STILL BETWEEN MAY 28 AND AUGUST 11, 2019, THE CONTRACTOR IS ALLOWED TO CLOSE US 60 WITHIN THE INTERCHANGE WITH I-24 FROM JAMES SANDERS BLVD. TO COLEMAN ROAD FOR A TOTAL OF FOUR WEEKS TO COMPLETE CONSTRUCTION OF THE PROPOSED INTERCHANGE. UPON COMPLETION OF THE DOUBLE CROSSOVER DIAMOND INTERCHANGE, TRAFFIC SHALL NOT BE SWITCHED TO THE ULTIMATE CONFIGURATION UNTIL SIX LANES, THREE LANES IN BOTH DIRECTIONS BETWEEN JAMES SANDERS BLVD. AND COLEMAN ROAD, AND A MINIMUM OF FOUR LANES THROUGH SECTION 1 ARE ESTABLISHED.

C. THE CONTRACTOR IS ALLOWED TO MAINTAIN TRAFFIC ON US 60 UTILIZING THREE LANES OF TRAFFIC, ONE THROUGH LANE IN EACH DIRECTION WITH ONE LEFT TURN LANE, DURING NIGHT TIME HOURS ONLY AND FOR THE DURATION OF THE PROJECT.

D. THE CONTRACTOR IS ALLOWED TO CLOSE NEW HOLT ROAD, JAMES SANDERS BOULEVARD, THE KENTUCKY OAKS MALL ENTRANCE, AND THE WAL-MART ENTRANCE TO TRAFFIC FOR ONE WEEK EACH TO COMPLETE CONSTRUCTION ON THESE ROADS. THE LISTED ROAD CLOSURES SHALL OCCUR ON SEPARATE WEEKS, NOT CONCURRENTLY. ONLY ONE ROAD SHALL BE CLOSED TO TRAFFIC AT ANY GIVEN WEEK.

E. INSTEAD OF HAVING TO BE ON CALL 24 HOURS A DAY, 7 DAYS A WEEK FOR THE PROJECT DURATION, THE PERSON DESIGNATED AS TRAFFIC COORDINATOR FOR THE PROJECT SHALL BE AVAILABLE ON-SITE ONLY WHILE WORKERS ARE PRESENT AT THE PROJECT SITE AND AT ALL TIMES DURING LANE CLOSURES. A LAW ENFORCEMENT OFFICER (LEO) SHALL BE PRESENT AT ALL TIMES DURING THE FULL US 60 CLOSURE WITHIN THE I-24 INTERCHANGE. DURING THE FULL US 60 AT I-24 CLOSURE, THE CONTRACTOR SHALL MAKE PROVISIONS FOR THE PASSAGE OF EMERGENCY VEHICLES THROUGH THE WORKSITE AS QUICKLY AS POSSIBLE.

FILE NAME: V:\1785\ACTIVE\178565008\TRANS\PORTATION\DESIGN\DRAWING\PLAN_SHEETS\ALTERNATIVE_NOTES.DGN
DATE PLOTTED: January 22, 2019
USER: kdeep

E-SHEET NAME: MicroStation v8.11.9.832

MAINTENANCE OF TRAFFIC NOTES

COUNTY OF	ITEM NO.	SHEET NO.
McCRACKEN	1-154.00	R71

REVISED 1-22-19

PHASE III CONSTRUCTION

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PHASE III WORK ALONG THIS SECTION SHALL CONSIST OF THE COMPLETION OF ANY REMAINING DRAINAGE ITEMS, RAISED MEDIANS, REMAINING PORTIONS OF THE PROPOSED GRADING, CONSTRUCTION OF ANY REMAINING PORTIONS OF MILLING AND LEVELING AND WEDGING FOR CROSS SLOPE CORRECTION, AND TEMPORARY STRIPING. THIS WORK SHALL BE PERFORMED USING MOVEABLE LANE CLOSURE OPERATIONS WITH FLAGGERS AND SHALL BE PERFORMED DURING PERIODS OF LOW TRAFFIC FLOW OR AT TIMES APPROVED BY THE ENGINEER. TEMPORARY STRIPING SHALL BE PLACED AS NEEDED DURING THESE OPERATIONS AND AT ANY TIME WORK CEASES.

WHEN THE TEMPORARY STRIPING IS IN PLACE, SHIFT TRAFFIC TOWARDS THE OUTER LANES ON BOTH EASTBOUND AND WESTBOUND DIRECTIONS AS SHOWN IN THE PLANS, AWAY FROM THE PROPOSED CENTER RAISED MEDIANS. AT THIS POINT, TRAFFIC IS STILL BEING MAINTAINED UNDER THE NORMAL DIAMOND INTERCHANGE CONFIGURATION, SIMILARLY TO THE EXISTING CONFIGURATION.

MAINTAIN THE EXISTING OR TEMPORARY SIGNALS IN PLACE TO CONTROL INTERCHANGE TRAFFIC AT THE END OF THE RAMPS DURING PHASE III WORK. INSTALL ALL PROPOSED SIGNAL MAST ARM ASSEMBLIES FOR THE CROSSOVER INTERSECTIONS (EXCEPT FOR PROPOSED SIGNALS 56 FEET RT. OF STA. 204+02 AND 49 FEET RT. OF STA. 204+57.) INTENDED FOR THE ULTIMATE CONFIGURATION. TEMPORARY CRASH CUSHIONS MAY BE UTILIZED TO PROTECT THE PROPOSED CROSSOVER SIGNAL MAST ARM POLES AND BASES IN THE FUTURE EXIT RAMP ISLANDS, UNTIL TRAFFIC IS SHIFTED TO THE ULTIMATE CONFIGURATION AND THE RAMP ISLAND CURBS HAVE BEEN CONSTRUCTED.

- * - DURING PHASE III, RAMP 'D' MAY BE CLOSED INDEPENDENTLY FOR A PERIOD OF ONE EXTENDED WEEKEND OR AT THE DISCRETION OF THE ENGINEER BEGINNING AT 7:00 PM FRIDAY UNTIL THE FOLLOWING MONDAY AT 6:00 AM. REMOVE THE EXISTING PAVEMENT AND CONSTRUCT THE REMAINING PORTIONS OF RAMP D AND D-1, AS DEPICTED IN THE MAINTENANCE OF TRAFFIC PLAN. LIQUIDATED DAMAGES OF \$5000.00/HOUR WILL BE ASSESSED UNTIL THESE ITEMS OF WORK ARE COMPLETE AND THE RAMPS REOPENED.

PHASE IV CONSTRUCTION

* - PHASE IV WORK INVOLVES FINAL CONSTRUCTION ITEMS WITHIN THE LIMITS OF THE CROSSOVER INTERSECTIONS. DURING THIS PHASE, THE CONTRACTOR WILL BE ALLOCATED ONE WEEKEND BEGINNING AT 7:00 PM FRIDAY AND ENDING AT 6:00 AM MONDAY TO CLOSE THE SECTION OF US 60 MAINLINE ROADWAY FROM THE JAMES SANDERS BOULEVARD INTERSECTION TO THE COLEMAN ROAD INTERSECTION. DURING THIS PERIOD THE CONTRACTOR SHALL COMPLETE ANY ITEMS THAT WERE LEFT INCOMPLETE DURING PREVIOUS PHASES OF THE PROJECT TO FACILITATE ULTIMATE TRAFFIC CONTROL OPERATIONS. THE FINAL STAGE OF THIS PHASE INCLUDES THE PLACEMENT OF A 0.5" SCRATCH COURSE. THIS COURSE SHALL BE PLACED OVER MAINLINE US 60 AND THE ENTRANCE AND EXIT RAMPS TO I-24. THE SCRATCH COURSE WILL BE STRIPED WITH THE ULTIMATE TRAFFIC CONFIGURATION. WITH THE PROPOSED SIGNALIZATION OPERATIONAL, RE-OPEN THE ROADWAY AND ROUTE TRAFFIC INTO THE PROPOSED PATTERNS. LIQUIDATED DAMAGES OF \$5000.00/HOUR WILL BE ASSESSED UNTIL THESE ITEMS OF WORK ARE COMPLETE.

CONSTRUCTION ITEMS TO BE BUILT DURING THIS PHASE INCLUDE REMAINING SECTIONS OF BARRIER CURB AND GUTTER ALONG THE RAMP ISLANDS, CURB BOX INLETS AND PIPE RUNS LOCATED ON THE MAINLINE SIDE OF THE RAMP ISLANDS, PLACEMENT OF ASPHALT SCRATCH COURSE. TEMPORARY STRIPING DEPICTING THE FINAL STRIPING CONFIGURATION AS SHOWN ON THE ULTIMATE STRIPING PLANS, AND THE ULTIMATE SIGNALIZATION, LIGHTING AND SIGNING FOR THE PROJECT. ALL THE ITEMS LISTED ARE FOR THE INTENDED FINAL NUMBER OF LANES AS SHOWN ON THE PLANS FOR THE ENTIRE PROJECT INCLUDING THE CROSSOVER INTERSECTIONS. THE CONTRACTOR IS ADVISED THAT NO LANE CLOSURES SHALL BE ALLOWED DURING REGULAR TRAFFIC OPERATION HOURS ONCE THE ULTIMATE CROSSOVER INTERCHANGE CONFIGURATION IS OPEN TO TRAFFIC AT THE END OF THE WEEKEND CLOSURE PERIOD.

AFTER THE INTERCHANGE HAS BEEN SWITCHED TO THE ULTIMATE DOUBLE CROSSOVER DIAMOND CONFIGURATION WITH ALL LANES OPEN (ALL LANES OPEN TO TRAFFIC THROUGH THE DCD INTERCHANGE FROM JAMES SANDERS BOULEVARD TO COLEMAN ROAD), WORK CAN THEN PROCEED ON THE REMAINING WORK ITEMS WITHIN THE OUTER ISLANDS AT THE BOTTOM OF RAMPS. REMAINING ITEMS LEFT TO BE BUILT AT THIS STAGE INCLUDE SECTIONS OF SHARED-USED PATH WITHIN THE ISLAND LIMITS, AND FINAL GRADING AND SODDING INSIDE THE ISLANDS.

PHASE V CONSTRUCTION

FINAL SURFACING FOR THE PROJECT ALONG WITH PERMANENT STRIPING AND PAINTING OF THE CURBS SHALL BE COMPLETED DURING THIS STAGE. THIS WORK SHALL BE PERFORMED USING MOVEABLE LANE CLOSURE OPERATIONS WITH FLAGGERS AND SHALL BE PERFORMED DURING PERIODS OF LOW TRAFFIC FLOW OR AT TIMES APPROVED BY THE ENGINEER. IF TEMPORARY STRIPING IS NECESSARY DURING THESE OPERATIONS OR AT ANY TIME WORK CEASES, IT SHALL BE NOT BE MEASURED FOR PAYMENT. NO TEMPORARY STRIPING WILL BE ALLOWED ON FINAL SURFACES UNLESS IT IS PLACED IN THE FINAL STRIPING CONFIGURATION.

* - ALTERNATIVE TRAFFIC CONTROL NOTES AND CONSTRUCTION SEQUENCING

CONTRARY TO THE FOLLOWING MAINTENANCE OF TRAFFIC NOTES, SEE ALTERNATIVE NOTES BELOW:

- SHEET R69 - NOTE 3
- SHEET R69 - NOTE 7
- SHEET R69 - NOTE 21
- SHEET R69 - TRAFFIC COORDINATOR
- SHEET R70 - CONSTRUCTION SEQUENCING, FIRST PARAGRAPH
- SHEET R70 - CONSTRUCTION SEQUENCING, PHASE II
- SHEET R70 - CONSTRUCTION SEQUENCING, PHASE III
- SHEET R71 - PHASE II CONSTRUCTION
- SHEET R71 - PHASE III CONSTRUCTION
- SHEET R71 - PHASE IV CONSTRUCTION
- ALL MAINTENANCE OF TRAFFIC US 60 TYPICAL SECTIONS

A. BETWEEN MAY 28 AND AUGUST 11, 2019, THE CONTRACTOR IS ALLOWED TO CLOSE THE I-24 EXIT RAMPS, RAMPS A AND C, FOR A PERIOD OF TWO WEEKS TO COMPLETE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS ON THOSE RAMPS.

B. AFTER CONSTRUCTION OF THE I-24 RAMPS A AND C IS COMPLETED, AND STILL BETWEEN MAY 28 AND AUGUST 11, 2019, THE CONTRACTOR IS ALLOWED TO CLOSE US 60 WITHIN THE INTERCHANGE WITH I-24 FROM JAMES SANDERS BLVD. TO COLEMAN ROAD FOR A TOTAL OF FOUR WEEKS TO COMPLETE CONSTRUCTION OF THE PROPOSED INTERCHANGE. UPON COMPLETION OF THE DOUBLE CROSSOVER DIAMOND INTERCHANGE, TRAFFIC SHALL NOT BE SWITCHED TO THE ULTIMATE CONFIGURATION UNTIL SIX LANES, THREE LANES IN BOTH DIRECTIONS BETWEEN JAMES SANDERS BLVD. AND COLEMAN ROAD, AND A MINIMUM OF FOUR LANES THROUGH SECTION 1 ARE ESTABLISHED.

C. THE CONTRACTOR IS ALLOWED TO MAINTAIN TRAFFIC ON US 60 UTILIZING THREE LANES OF TRAFFIC, ONE THROUGH LANE IN EACH DIRECTION WITH ONE LEFT TURN LANE, DURING NIGHT TIME HOURS ONLY AND FOR THE DURATION OF THE PROJECT.

D. THE CONTRACTOR IS ALLOWED TO CLOSE NEW HOLT ROAD, JAMES SANDERS BOULEVARD, THE KENTUCKY OAKS MALL ENTRANCE, AND THE WAL-MART ENTRANCE TO TRAFFIC FOR ONE WEEK EACH TO COMPLETE CONSTRUCTION ON THESE ROADS. THE LISTED ROAD CLOSURES SHALL OCCUR ON SEPARATE WEEKS, NOT CONCURRENTLY. ONLY ONE ROAD SHALL BE CLOSED TO TRAFFIC AT ANY GIVEN WEEK.

E. INSTEAD OF HAVING TO BE ON CALL 24 HOURS A DAY, 7 DAYS A WEEK FOR THE PROJECT DURATION, THE PERSON DESIGNATED AS TRAFFIC COORDINATOR FOR THE PROJECT SHALL BE AVAILABLE ON-SITE ONLY WHILE WORKERS ARE PRESENT AT THE PROJECT SITE AND AT ALL TIMES DURING LANE CLOSURES. A LAW ENFORCEMENT OFFICER (LEO) SHALL BE PRESENT AT ALL TIMES DURING THE FULL US 60 CLOSURE WITHIN THE I-24 INTERCHANGE. DURING THE FULL US 60 AT I-24 CLOSURE, THE CONTRACTOR SHALL MAKE PROVISIONS FOR THE PASSAGE OF EMERGENCY VEHICLES THROUGH THE WORKSITE AS QUICKLY AS POSSIBLE.

TRAFFIC SIGNAL ESTIMATE OF QUANTITIES

ITEM CODE	ITEM	UNIT	US NEW HOLT	US MALL FT	US SANDERS	US 1/2" PIPES	US COLEMAN	TOTAL
4740	POLE BASE	EACH	-	-	-	3	-	3
4780	FUSED CONNECTOR KIT	EACH	16	-	-	32	-	48
4792	CONDUIT - 1 INCH	LIN FT	27	22	25	60	20	154
4795	CONDUIT - 2 INCH	LIN FT	-	-	-	1830	-	1830
4811	ELECTRICAL JUNCTION BOX TYPE B	EACH	6	6	5	14	6	37
4820	TRENCHING AND BACKFILLING	LIN FT	273	220	212	1865	209	2779
4830	LOOP WIRE	LIN FT	2970	3000	3906	6530	2724	19,130
4834	WIRE-NO. 6		-	-	-	1320	-	1320
4835	WIRE-NO. 4		-	-	-	1420	-	1420
4844	CABLE - NO. 14/5C	LIN FT	2880	1168	1450	10,390	993	16,881
4850	CABLE - NO. 14/1 PAIR	LIN FT	2595	3220	3950	9405	2657	21,827
4871	POLE 35' WOODEN	EACH	-	-	-	1	-	1
2263INN	INSTALL MAST ARM POLE	EACH	-	-	-	7	-	7
4885	MESSENGER - 10800 LB	LIN FT	503	-	-	-	491	994
4886	MESSENGER - 15400 LB	LIN FT	-	542	606	-	-	1148
4895	LOOP SAW SLOT AND FILL	LIN FT	1057	1077	1527	2345	999	7005
4932	INSTALL STEEL STRAIN POLE	EACH	4	4	4	-	4	16
4934	TEMP SIGNAL MULTI PHASE	EACH	-	-	-	2	-	2
24955ED	REMOVE SIGNAL EQUIPMENT	EACH	1	1	1	2	1	6
6472	INSTALL SPAN MOUNTED SIGN	EACH	-	-	-	28	-	28
20093NS835	INSTALL PEDESTRIAN HEAD LED	EACH	8	-	-	4	-	12
20094ES835	TEMPORARY RELOCATION OF SIGNAL HEAD	EACH	24	26	32	-	20	102
20188NS835	INSTALL SIGNAL - 3 SECTION LED	EACH	10	11	6	32	10	69
20266ES835	INSTALL SIGNAL - 4 SECTION LED	EACH	2	2	-	-	-	4
20390NS835	INSTALL COORDINATING UNIT	EACH	1	1	1	1	1	5
20391NS835	ELECTRICAL JUNCTION BOX TYPE A	EACH	-	-	-	7	-	7
20392NS835	ELECTRICAL JUNCTION BOX TYPE C	EACH	-	-	-	4	-	4
21743NN	INSTALL PEDESTRIAN DETECTOR	EACH	8	-	-	4	-	12
22939ND	INSTALL LUMINAIRE POLE	EACH	-	-	-	3	-	3
23157EN	TRAFFIC SIGNAL POLE BASE	CU YD	17.3	17.6	18.0	23.7	18.3	94.9
23222EC	INSTALL SIGNAL PEDESTAL	EACH	4	-	-	4	-	8
24856ED	TRAFFIC SIGNAL POLE BASE ALTERNATIVE	EACH	4	4	4	7	4	23
24900EC	PVC CONDUIT - 1 1/4 INCH - SCHEDULE 80	LIN FT	201	160	127	435	215	1138
24901EC	PVC CONDUIT - 2 INCH - SCHEDULE 80	EACH	92	74	101	2413	32	2712
24908EC	INSTALL SIGNAL CONTROLLER-TY ATC	EACH	1	1	1	1	1	5
21543EN	BORE AND JACK CONDUIT	LIN FT	-	-	-	685	-	685

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 SPRIAL 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 (502-782-8991 OR EMAIL REGENA.MARTIN@KY.GOV) AND ARRANGE TO PICK UP INSTALL ITEMS A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO ARRIVAL. FAILURE TO PROVIDE POLE YARD PERSONNEL 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 716

INSTALL LUMINAIRE POLE - DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT INSTALLED. THE DEPARTMENT WILL NOT MEASURE FURNISHING AND INSTALLING AN ALUMINUM CAP (WITH SET SCREWS) FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL NOT MEASURE THE INSTALLATION OF THE MOUNTING BRACKETS, TRANSFORMER BASE, DOOR, AND ANCHOR BOLTS IN CONCRETE BASE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

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, ATTACHING BATTERY BACKUP EQUIPMENT WHEN NOTED, 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.

CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 723

SUBSECTION: 03.02 POLES AND BASES INSTALLATION. A) 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			
		< 2:1 GROUND SLOPE	SOIL	ROCK	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	8.5	6	6	6	6	#8	2	
30-39.9	36	10	6	6	6	6	#8	2	
40-49.9	36	10.5	6	6	6	6	#8	2	
50-59.9	36	11	6	6	6	6	#8	2	
60-69.9	36	12	6	6	6	6	#8	2	
70-79.9	36	12.5	6	6	6	6	#8	2	
80-89.9	36	13.5	6	6	6	6	#8	2	
90-99.9	36	14.5	6	6	6	6	#8	2	
100-149.9	36	15.5	6	6	6	6	#8	2	
150-199.9	36	17	6	6	6	6	#8	2	
200-249.9	36	18.5	6	6	6	6	#8	2	
250-299.9	36	21	6	6	6	6	#8	2	
300-399.9	46	21.5	7.5	7.5	7.5	7.5	#8	6	
400-499.9	46	22.5	7.5	7.5	7.5	7.5	#8	6	
500-600	48	22.5	7.5	7.5	7.5	7.5	#9	6	

CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 723

SUBSECTION: 03.02 POLES AND BASES INSTALLATION. A) 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			
		< 2:1 GROUND SLOPE	SOIL	ROCK	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	8.5	6	6	6	6	#8	2	
30-39.9	36	10	6	6	6	6	#8	2	
40-49.9	36	10.5	6	6	6	6	#8	2	
50-59.9	36	11	6	6	6	6	#8	2	
60-69.9	36	12	6	6	6	6	#8	2	
70-79.9	36	12.5	6	6	6	6	#8	2	
80-89.9	36	13.5	6	6	6	6	#8	2	
90-99.9	36	14.5	6	6	6	6	#8	2	
100-149.9	36	15.5	6	6	6	6	#8	2	
150-199.9	36	17	6	6	6	6	#8	2	
200-249.9	36	18.5	6	6	6	6	#8	2	
250-299.9	36	21	6	6	6	6	#8	2	
300-399.9	46	21.5	7.5	7.5	7.5	7.5	#8	6	
400-499.9	46	22.5	7.5	7.5	7.5	7.5	#8	6	
500-600	48	22.5	7.5	7.5	7.5	7.5	#9	6	

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: STANTEC DATE SUBMITTED:

Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS COUNTY OF **McCRACKEN**

PROJECT NUMBERS: 12FO C35 D624 01FD52 1550 C073 E143

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

REVISED 1-22-19

MATERIAL NOTES THAT ARE CONTRARY TO SECTION 835

SUBSECTION: 07.02 MAST ARM POLES
 REVISION: REPLACE ENTIRE 9) NOTE FOR "THE DETAIL ANALYSIS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING CALCULATIONS: WITH THE FOLLOWING: LIMIT VERTICAL DEFLECTION TO 8 INCHES FOR GALLOPING FOR ALL ARMS .

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 (502-782-8991 OR EMAIL REGENA.MARTIN@KY.GOV) AND ARRANGE TO PICK UP INSTALL ITEMS A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO ARRIVAL. FAILURE TO PROVIDE POLE YARD PERSONNEL 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 716

INSTALL LUMINAIRE POLE - DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT INSTALLED. THE DEPARTMENT WILL NOT MEASURE FURNISHING AND INSTALLING AN ALUMINUM CAP (WITH SET SCREWS) FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL NOT MEASURE THE INSTALLATION OF THE MOUNTING BRACKETS, TRANSFORMER BASE, DOOR, AND ANCHOR BOLTS IN CONCRETE BASE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

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, ATTACHING BATTERY BACKUP EQUIPMENT WHEN NOTED, 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. A)
 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
		< 2:1 GROUND SLOPE	2:1 GROUND SLOPE	ROCK	SOIL					
0-9.9	36	6	6	6	6	6.5	6	#8	2	
10-19.9	36	6	6	6	6	6.5	6	#8	2	
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60-69.9	36	6	6	6	6	6.5	6	#8	2	
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80-89.9	36	6	6	6	6	6.5	6	#8	2	
90-99.9	36	6	6	6	6	6.5	6	#8	2	
100-149.9	36	6	6	6	6	6.5	6	#8	2	
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300-349.9	36	6	6	6	6	6.5	6	#8	2	
350-399.9	36	6	6	6	6	6.5	6	#8	2	
400-449.9	48	7.5	7.5	7.5	7.5	7.5	7.5	#9	6	
450-499.9	48	7.5	7.5	7.5	7.5	7.5	7.5	#9	6	
500-600	48	7.5	7.5	7.5	7.5	7.5	7.5	#9	6	

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.

TRAFFIC SIGNAL ESTIMATE OF QUANTITIES

ITEM CODE	ITEM	UNIT	US NEW TOL	US MALL FT	US SANDERS	US 24 PM FS	US 60 COLMAN	TOTAL
4740	POLE BASE	EACH	-	-	-	3	-	3
4780	FUSED CONNECTOR KIT	EACH	16	-	-	32	-	48
4792	CONDUIT - 1 INCH	LIN FT	27	22	25	60	20	154
4795	CONDUIT - 2 INCH	LIN FT	-	-	-	1830	-	1830
4811	ELECTRICAL JUNCTION BOX TYPE B	EACH	6	6	5	14	6	37
4820	TRENCHING AND BACKFILLING	LIN FT	273	220	212	1865	209	2779
4830	LOOP WIRE	LIN FT	2970	3000	3906	6530	2724	19,130
4834	WIRE-NO. 6		-	-	-	1320	-	1320
4835	WIRE-NO. 4		-	-	-	1420	-	1420
4844	CABLE - NO. 14/5C	LIN FT	2880	1168	1450	10,390	993	16,881
4850	CABLE - NO. 14/1 PAIR	LIN FT	2595	3220	3950	9405	2657	21,827
4871	POLE 35' WOODEN	EACH	-	-	-	1	-	1
2263INN	INSTALL MAST ARM POLE	EACH	-	-	-	7	-	7
4885	MESSENGER - 10800 LB	LIN FT	503	-	-	-	491	994
4886	MESSENGER - 15400 LB	LIN FT	-	542	606	-	-	1148
4895	LOOP SAW SLOT AND FILL	LIN FT	1057	1077	1527	2345	999	7005
4932	INSTALL STEEL STRAIN POLE	EACH	4	4	4	-	4	16
4934	TEMP SIGNAL MULTI PHASE	EACH	-	-	-	2	-	2
24956ED	REMOVE SIGNAL EQUIPMENT	EACH	1	1	1	2	1	6
6472	INSTALL SPAN MOUNTED SIGN	EACH	-	-	-	28	-	28
20093NS835	INSTALL PEDESTRIAN HEAD LED	EACH	8	-	-	4	-	12
20094ES835	TEMPORARY RELOCATION OF SIGNAL HEAD	EACH	24	26	32	-	20	102
20188NS835	INSTALL SIGNAL - 3 SECTION LED	EACH	10	11	6	32	10	69
20266ES835	INSTALL SIGNAL - 4 SECTION LED	EACH	2	2	-	-	-	4
20390NS835	INSTALL COORDINATING UNIT	EACH	1	1	1	1	1	5
20391NS835	ELECTRICAL JUNCTION BOX TYPE A	EACH	-	-	-	7	-	7
20392NS835	ELECTRICAL JUNCTION BOX TYPE C	EACH	-	-	-	4	-	4
21743NN	INSTALL PEDESTRIAN DETECTOR	EACH	8	-	-	4	-	12
22939ND	INSTALL LUMINAIRE POLE	EACH	-	-	-	3	-	3
23157EN	TRAFFIC SIGNAL POLE BASE	CU YD	17.3	17.6	18.0	23.7	18.3	94.9
23222EC	INSTALL SIGNAL PEDESTAL	EACH	4	-	-	4	-	8
24856ED	TRAFFIC SIGNAL POLE BASE ALTERNATIVE	EACH	4	4	4	7	4	23
24900EC	PVC CONDUIT - 1 1/4 INCH - SCHEDULE 80	LIN FT	201	160	127	435	215	1138
24901EC	PVC CONDUIT - 2 INCH - SCHEDULE 80	EACH	92	74	101	2413	32	2712
24908EC	INSTALL SIGNAL CONTROLLER-TY ATC	EACH	1	1	1	1	1	5
21543EN	BORE AND JACK CONDUIT	LIN FT	-	-	-	685	-	685

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.

DESIGNED BY: STANTEC
 DATE SUBMITTED:
Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
 COUNTY OF
McCRACKEN
 PROJECT NUMBERS: 12FO C35 D624 01FD52 1550 C073 E4H3
 TRAFFIC SIGNAL ESTIMATE OF QUANTITIES
 MEASUREMENT, CONST, AND MISC NOTES