



COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET

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

Matthew G. Bevin
Governor

Greg Thomas
Secretary

July 20, 2018

CALL NO. 422
CONTRACT ID NO. 183146
ADDENDUM # 1

Subject: Monroe County, 086GR18R046-CB06
Letting July 27, 20178

- (1)Added - Special Note for HDPE Pipe Liner - Pages 13(a)-13(b) of 45
- (2)Revised - Material Summary - Pages 21-22 of 45
- (2)Revised - Summary Sheet - Page 27 of 45
- (3)Revised - Proposal Bid Items - Page 45 of 45

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:ws
Enclosures



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SPECIAL NOTE FOR HDPE PIPE LINER

I. DESCRIPTION

Perform all HDPE pipe liner work in accordance with the Department's 2012 Standard Specifications, these notes, and interim Supplemental Specifications, Special Provisions and Special Notes, and Standard and Sepia Drawings, current editions, and as directed by the Engineer. Section references are to the Standard Specifications. This work shall consist of:

(1) Installing HDPE pipe liners various sizes throughout project as determined by plans, proposal, or engineer; (2) Cleaning existing designated pipes or culverts prior to liner installation; (3) Adjusting disjointed sections of existing pipe to allow proper installation of Liners; (4) Preparing pipe beds for HDPE liner lengths that extend beyond existing pipe length that are to be left as said extensions; (5) Lining existing pipe and providing additional length of HDPE if designated for extensions of existing pipe; (6) Construct concrete Bulkhead at ends of existing pipe with appropriate vent tubes, grout tubes, and blocking if needed; (7) Pump grout into annular space between existing pipe and pipe liner; (8) Remove all construction debris, forms, etc from location and if applicable prepare extensions for embankment in place backfill material if part of plan/proposal.

II. MATERIALS

Furnish materials in accordance with these notes, the Standard Specifications and interim Supplemental Specifications, and applicable Special Provisions and Special Notes, AASHTO Designation: M 326-08 and ASTM Designation: F894 as specified, and Standard and Sepia Drawings, current editions. Provide for all materials to be sampled and tested in accordance with the Department's Sampling Manual. Unless directed otherwise by the Engineer, make the materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing. Grout ingredients and proportions may be adjusted by the Engineer to meet field conditions. Unless otherwise directed by the engineer concrete for bulkhead shall be Class A.

III. LINERS AND GROUT

All labor, material, and equipment needed for the joining/connecting of the liner pipe sections using extrusion welded joints will be supplied by the vendor. The sections will be welded/glued on the inside and outside of the pipe. This will be incidental to the cost of the pipe.

Resetting disjointed pipe shall include anything needed to achieve proper alignment of existing pipe to facilitate the lining of the pipe. This may include the total removing and resetting of some sections of pipe as deemed necessary by engineer. All labor, material, and equipment needed to

perform this work shall be incidental to the HDPE PIPE LINER item.

Pipe bed material and construction shall include Geotextile fabric TY IV and #8/9 aggregate to achieve proper grade and support for the designated pipe extensions. Extension limits shall be considered as the final HDPE PIPE LINER length minus the Existing pipe length as recorded within the proposal/plans. All labor, material, and equipment needed to perform this work shall be incidental to the HDPE PIPE LINER item.

Grout work shall include installing grout material into annular space between existing pipe and pipe liner. Contractor/Vendor will be responsible for providing any needed traffic control, constructing bulkheads, vent tubes, grout tubes and blocking if needed. Contractor/Vendor shall provide a concrete pump and air foam generator to deliver desired pressure and material as determined by the engineer. Contractor/Vendor shall ensure all voids are filled by pumping grout from upstream or downstream of culvert and continue pumping until grout is expelled from the highest vent pipe on the inlet end. The Contractor/Vendor shall take appropriate precautions to avoid over pressurization, buckling, and floating of the pipe liner during the grouting process. Pressure on the annular void shall not exceed 2 psi to avoid damage to the pipe liner. The Contractor/Vendor shall be solely responsible for any damage or distortion of the pipe liner due to the grouting process. The Contractor/Vendor shall comply with the pipe manufacturer's recommendations for grouting procedures. Multiple grout lifts may be required to avoid buckling the liner pipe. The Contractor/Vendor shall take all necessary precautions to protect and preserve the interior of the pipe from damage. Spills shall be minimized and cleaned up immediately. Any damage to the pipe caused by or occurring during the grouting operation shall be repaired by a method approved by the Engineer at no additional cost to the Cabinet.

IV. MEASUREMENT/PAYMENT

HDPE Liner "XX". Will be measured and paid by Liner feet of HDPE LINER PIPE "XX". The Department will not measure aggregate, pipe cleaning, fabric, concrete, vent pipes, bulkheads, resetting of pipe, etc. for payment. The department will consider these and any other necessary items incidental to HDPE LINER PIPE.

Grout. Will be measured as Linear Feet of existing pipe left in place after liner installation and paid as GROUT.

Embankment in Place . If not listed as a bid item, but required by the plan/proposal will be measured and paid as CUYD of material placed.

MATERIAL SUMMARY

CONTRACT ID: 183146

086GR18R046-CB06

0308601001801

FOUNTAIN RUN RD (KY 100) FROM ALLEN COUNTY LINE EXTENDING EAST TO KY 98 ASPHALT RESURFACING, A DISTANCE OF .31 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0135	00001	DGA BASE	50.00	TON
0140	00356	ASPHALT MATERIAL FOR TACK	2.20	TON
0145	02562	TEMPORARY SIGNS	170.00	SQFT
0150	02650	MAINTAIN & CONTROL TRAFFIC - (KY 100)	1.00	LS
0155	06510	PAVE STRIPING-TEMP PAINT-4 IN	3,432.00	LF
0160	06514	PAVE STRIPING-PERM PAINT-4 IN	6,521.00	LF
0165	00301	CL2 ASPH SURF 0.38D PG64-22	255.00	TON
0170	00190	LEVELING & WEDGING PG64-22	47.00	TON
0175	02569	DEMOBILIZATION	1.00	LS
0180	02676	MOBILIZATION FOR MILL & TEXT - (KY 100)	1.00	LS
0185	02677	ASPHALT PAVE MILLING & TEXTURING	15.00	TON
0190	03240	BASE FAILURE REPAIR	210.00	SQYD
0195	06568	PAVE MARKING-THERMO STOP BAR-24IN	30.00	LF
0200	22950NN	PAVE MARKING-THERMO STOP	1.00	EACH
0205	02697	EDGE LINE RUMBLE STRIPS	3,432.00	LF

MATERIAL SUMMARY

CONTRACT ID: 183146

086GR18R046-CB06

0308602141801

TURKEY NECK BND (KY 214) FROM KY 100 EXTENDING EAST TO WESTERN BANK OF CUMBERLAND RIVER FERRY APPROACH ASPHALT RESURFACING, A DISTANCE OF 1.79 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	00103	ASPHALT SEAL COAT	7.00	TON
0010	02562	TEMPORARY SIGNS	170.00	SQFT
0015	02650	MAINTAIN & CONTROL TRAFFIC - (KY 214)	1.00	LS
0020	06510	PAVE STRIPING-TEMP PAINT-4 IN	19,124.00	LF
0025	06514	PAVE STRIPING-PERM PAINT-4 IN	17,212.00	LF
0030	00301	CL2 ASPH SURF 0.38D PG64-22	1,185.00	TON
0035	00190	LEVELING & WEDGING PG64-22	286.00	TON
0040	02676	MOBILIZATION FOR MILL & TEXT - (KY 214)	1.00	LS
0045	02677	ASPHALT PAVE MILLING & TEXTURING	70.00	TON
0050	03240	BASE FAILURE REPAIR	940.00	SQYD
0055	02569	DEMOBILIZATION	1.00	LS
0060	00356	ASPHALT MATERIAL FOR TACK	12.00	TON
0065	00100	ASPHALT SEAL AGGREGATE	27.00	TON
0070	00071	CRUSHED AGGREGATE SIZE NO 57	41.00	TON
0075	22950NN	PAVE MARKING-THERMO STOP	2.00	EACH
0080	06568	PAVE MARKING-THERMO STOP BAR-24IN	44.00	LF
0085	00464	CULVERT PIPE-24 IN	90.00	LF
0090	00462	CULVERT PIPE-18 IN	33.00	LF
0095	02237	DITCHING	325.00	LF
0100	02483	CHANNEL LINING CLASS II	60.00	TON
0105	01490	DROP BOX INLET TYPE 1	7.00	EACH
0110	02690	SAFELOADING	5.00	CUYD
0115	24583EC	HDPE PIPE LINER - 18"	196.00	LF
0120	24583EC	HDPE PIPE LINER - 24"	65.00	LF
0125	21945EN	GROUT - 18" (ADDED: 7-20-18)	156.00	LF
0130	21945EN	GROUT - 24" (ADDED: 7-20-18)	60.00	LF

CB06 086 0214 000-002

#	MP	Type	Drainage Size	Existing length	Proposed Length	Ditching LF	New vs Liner	Channel Lining Ton	Drop Box	Comment
1	0.011	Box Culvert	18					20		
2	0.369	RCP	18	27	33	15	new		1	Existing L headwall above road replace with Drop box
3	0.417	Culvert	5 x 5	34						
4	0.609	RCP	24	28	44	30	new		1	Needs consent to ditch through pasture
5	0.655	RCP	18	34	45	30	Liner		1	Needs consent to ditch through pasture and liner installation
6	0.733	RCP	18	30	38	15	Liner			Disjointed outlet need consent for liner installation.
7	0.825	Culvert	6 x 8	28				20		Inlet protection and behind Wing Walls. Pavement transition rough needs milled.
8	0.977	Culvert	3 x 4	45						
9	1.128	Culvert	3 x 3	40		150				Needs consent to ditch in pasture field. Pavement rough needs milled Could use inlet headwall parapet wall extended up to improve shoulder slope.
10	1.217	Culvert	2 x 3	30						Inlet Parapet needs cut flush with roadway.
11	1.277	RCP	18	28	34	15	Liner			Inlet Headwall high needs cut flush with roadway. Disjointed outlet. Need consent for liner installation.
12	1.405	RCP	18	30	35	15	Liner		1	Disjointed inlet and outlet need consent for liner installation.
13	1.451	RCP	24	42	46	20	New		1	Save load old pipe place new inlet flow line 4' above existing flow line at same pipe slope.
14	1.52	RCP	18	34	44	15	Liner		1	Disjointed inlet and outlet need consent for liner installation.
15	1.635	RCP	24	60	65	20	Liner		1	Disjointed inlet and outlet need consent for liner installation.

Total new	24	90
Total new Liner	18	33
Total Liner	24	65
Total Ditching	18	196
Total Channel Lining		261
Total Drop Box new/Mod		325

Liner Length	196	156
Liners 18"	65	60

* contrary to specifications all new pipe installations shall be backfilled with flowable fill up to 4" of existing surface and remainder using Asph base.
 * all work items necessary for pipe installation or lining not listed in proposal shall be incidental to other items.
 * Sawing and removing high headwall sections shall be incidental to other items of work.
 * Bidder to note if necessary disjointed pipe may need removed for proper liner installations and shall be incidental to liner bid item.

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PROPOSAL BID ITEMS

Report Date 7/20/18

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Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00001		DGA BASE	50.00	TON		\$	
0020	00071		CRUSHED AGGREGATE SIZE NO 57	41.00	TON		\$	
0030	00100		ASPHALT SEAL AGGREGATE	27.00	TON		\$	
0040	00103		ASPHALT SEAL COAT	7.00	TON		\$	
0050	00190		LEVELING & WEDGING PG64-22	333.00	TON		\$	
0060	00301		CL2 ASPH SURF 0.38D PG64-22	1,440.00	TON		\$	
0070	00356		ASPHALT MATERIAL FOR TACK	14.20	TON		\$	
0080	00462		CULVERT PIPE-18 IN	33.00	LF		\$	
0090	00464		CULVERT PIPE-24 IN	90.00	LF		\$	
0100	01490		DROP BOX INLET TYPE 1	7.00	EACH		\$	
0110	02237		DITCHING	325.00	LF		\$	
0120	02483		CHANNEL LINING CLASS II	60.00	TON		\$	
0130	02562		TEMPORARY SIGNS	340.00	SQFT		\$	
0140	02650		MAINTAIN & CONTROL TRAFFIC (KY 100)	1.00	LS		\$	
0150	02650		MAINTAIN & CONTROL TRAFFIC (KY 214)	1.00	LS		\$	
0160	02676		MOBILIZATION FOR MILL & TEXT (KY 100)	1.00	LS		\$	
0170	02676		MOBILIZATION FOR MILL & TEXT (KY 214)	1.00	LS		\$	
0180	02677		ASPHALT PAVE MILLING & TEXTURING	85.00	TON		\$	
0190	02690		SAFELOADING	5.00	CUYD		\$	
0200	02697		EDGE LINE RUMBLE STRIPS	3,432.00	LF		\$	
0210	03240		BASE FAILURE REPAIR	1,150.00	SQYD		\$	
0220	06510		PAVE STRIPING-TEMP PAINT-4 IN	22,556.00	LF		\$	
0230	06514		PAVE STRIPING-PERM PAINT-4 IN	23,733.00	LF		\$	
0240	06568		PAVE MARKING-THERMO STOP BAR-24IN	74.00	LF		\$	
0250	22950NN		PAVE MARKING-THERMO STOP	3.00	EACH		\$	
0260	24583EC		HDPE PIPE LINER 18"	196.00	LF		\$	
0270	24583EC		HDPE PIPE LINER 24"	65.00	LF		\$	
0272	21945EN		GROUT 18" (ADDED: 7-20-18)	156.00	LF		\$	
0274	21945EN		GROUT 24" (ADDED: 7-20-18)	60.00	LF		\$	

Section: 0002 - DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0280	02569		DEMOBILIZATION	1.00	LS		\$	