



Andy Beshear
GOVERNOR

TRANSPORTATION CABINET

200 Mero Street
Frankfort, Kentucky 40601

Jim Gray
SECRETARY

October 18, 2022

CALL NO. 202
CONTRACT ID NO. 224442
ADDENDUM # 1

Subject: CHRISTIAN COUNTY, 024GR22T030-HSIP & FD05
Letting October 20, 2022

- (1) Revised - Material Summary - Pages 103-105 of 255
- (2) Revised - Proposal Pages - 114-116, 123, 125, and 214-215(a) of 255
- (3) Added - Detail Sheet - Page 193(a) of 255
- (4) Revised - Proposal Bid Items - Pages 253-255(a) of 255
- (5) Omit - Proposal Pages - 110-113, 152, 156, 160, 171, 174-175, 179, 182, 189 and 193 of 255

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

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

Sincerely,

Rachel Mills,

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

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

RM:mr
Enclosures

MATERIAL SUMMARY

CONTRACT ID: 224442

024GR22T030-HSIP & FD05

0202401072201

GREENVILLE ROAD (KY 107) FROM 0.1 SOUTH OF BYPASS ROAD (KY 1682) EXTENDING NORTH TO FRUIT HILL ROAD (CR 1118) ASPHALT PAVEMENT & ROADWAY REHAB, A DISTANCE OF 5.47 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	00001	DGA BASE	4,206.00	TON
0010	00080	CRUSHED AGGREGATE SIZE NO 23	3,254.00	TON
0015	00100	ASPHALT SEAL AGGREGATE	235.00	TON
0020	00103	ASPHALT SEAL COAT	30.00	TON
0025	10020NS	FUEL ADJUSTMENT	14,335.00	DOLL
0030	01987	DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	15.00	EACH
0035	02351	GUARDRAIL-STEEL W BEAM-S FACE	482.50	LF
0040	02355	GUARDRAIL-STEEL W BEAM-S FACE A	200.00	LF
0045	02367	GUARDRAIL END TREATMENT TYPE 1	8.00	EACH
0050	02378	GUARDRAIL CONNECTOR TO BRIDGE END TY D	2.00	EACH
0055	02381	REMOVE GUARDRAIL	320.00	LF
0060	02483	CHANNEL LINING CLASS II	5,215.00	TON
0065	02484	CHANNEL LINING CLASS III	25.00	TON
0070	02650	MAINTAIN & CONTROL TRAFFIC - (CHRISTIAN KY 107 HSIP)	1.00	LS
0075	02701	TEMP SILT FENCE	28,882.00	LF
0080	02703	SILT TRAP TYPE A	10.00	EACH
0085	02704	SILT TRAP TYPE B	30.00	EACH
0090	02705	SILT TRAP TYPE C	20.00	EACH
0095	02706	CLEAN SILT TRAP TYPE A	10.00	EACH
0100	02707	CLEAN SILT TRAP TYPE B	30.00	EACH
0105	02708	CLEAN SILT TRAP TYPE C	20.00	EACH
0110	02709	CLEAN TEMP SILT FENCE	28,882.00	LF
0115	02726	STAKING - (CHRISTIAN KY 107 HSIP)	1.00	LS
0120	05950	EROSION CONTROL BLANKET	27,000.00	SQYD
0125	05952	TEMP MULCH	50,000.00	SQYD
0130	05953	TEMP SEEDING AND PROTECTION	25,000.00	SQYD
0135	05963	INITIAL FERTILIZER	5.00	TON
0140	05964	MAINTENANCE FERTILIZER	3.00	TON
0145	05985	SEEDING AND PROTECTION	25,000.00	SQYD
0150	08806	GUARDRAIL-BRIDGE CASE I-A	320.00	LF
0155	08810	PRECAST CONC BRIDGE RAIL BLOCK	6.00	EACH
0160	20191ED	OBJECT MARKER TY 3	8.00	EACH
0165	26175EC	ROADSIDE REGRADING	33,016.00	LF
0170	00440	ENTRANCE PIPE-15 IN	434.00	LF
0175	00441	ENTRANCE PIPE-18 IN	68.00	LF
0180	00443	ENTRANCE PIPE-24 IN	28.00	LF
0185	00462	CULVERT PIPE-18 IN	542.00	LF
0190	00464	CULVERT PIPE-24 IN	402.00	LF
0195	01310	REMOVE PIPE	733.00	LF
0200	01726	SAFETY BOX INLET-18 IN SDB-1	2.00	EACH
0205	01728	SAFETY BOX INLET-18 IN DBL SDB-5	4.00	EACH
0210	02403	REMOVE CONCRETE MASONRY	4.45	CUYD

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0215	02625	REMOVE HEADWALL	42.00	EACH
0220	08003	FOUNDATION PREPARATION - (STA 1223+87.65)	1.00	LS
0225	08003	FOUNDATION PREPARATION - (STA 1266+83.92)	1.00	LS
0230	08003	FOUNDATION PREPARATION - (STA 1278+48.96)	1.00	LS
0235	08003	FOUNDATION PREPARATION - (STA 1281+46.09)	1.00	LS
0240	08003	FOUNDATION PREPARATION - (STA 1285+65.98)	1.00	LS
0245	08003	FOUNDATION PREPARATION - (STA 1366+87.90)	1.00	LS
0250	08003	FOUNDATION PREPARATION - (STA 1401+50.86)	1.00	LS
0255	08003	FOUNDATION PREPARATION - (STA 1416+42.95)	1.00	LS
0260	08003	FOUNDATION PREPARATION - (STA 1421+87.53)	1.00	LS
0265	24694ED	BOX CULVERT - (STA 1223+87.65)	7.00	LF
0270	24694ED	BOX CULVERT - (STA 1266+83.92)	5.00	LF
0275	24694ED	BOX CULVERT - (STA 1278+48.96)	5.00	LF
0280	24694ED	BOX CULVERT - (STA 1285+65.98)	5.00	LF
0285	24694ED	BOX CULVERT - (STA 1366+87.90)	7.00	LF
0290	24694ED	BOX CULVERT - (STA 1401+50.86)	5.00	LF
0295	24694ED	BOX CULVERT - (STA 1416+42.95)	5.00	LF
0300	24694ED	BOX CULVERT - (STA 1421+87.53)	5.00	LF
0305	24695ED	BOX CULVERT HEADWALL - (STA 1223+87.65)	1.00	EACH
0310	24695ED	BOX CULVERT HEADWALL - (STA 1266+83.92)	1.00	EACH
0315	24695ED	BOX CULVERT HEADWALL - (STA 1278+48.96)	1.00	EACH
0320	24695ED	BOX CULVERT HEADWALL - (STA 1281+46.09)	1.00	EACH
0325	24695ED	BOX CULVERT HEADWALL - (STA 1285+65.98)	1.00	EACH
0335	24695ED	BOX CULVERT HEADWALL - (STA 1366+87.90)	1.00	EACH
0340	24695ED	BOX CULVERT HEADWALL - (STA 1401+50.86)	1.00	EACH
0345	24695ED	BOX CULVERT HEADWALL - (STA 1416+42.95)	1.00	EACH
0350	24695ED	BOX CULVERT HEADWALL - (STA 1421+87.53)	1.00	EACH
0355	24814EC	PIPELINE INSPECTION	1,209.00	LF
0360	26131ED	SLOPED AND MITERED HEADWALL-18 IN	18.00	EACH
0365	26132ED	SLOPED AND MITERED HEADWALL-24 IN	16.00	EACH
0370	02562	TEMPORARY SIGNS	300.00	SQFT
0375	02671	PORTABLE CHANGEABLE MESSAGE SIGN	3.00	EACH
0380	06406	SBM ALUM SHEET SIGNS .080 IN	237.00	SQFT
0385	06407	SBM ALUM SHEET SIGNS .125 IN	116.00	SQFT
0390	06410	STEEL POST TYPE 1	935.00	LF
0395	21373ND	REMOVE SIGN	91.00	EACH
0400	24631EC	BARCODE SIGN INVENTORY	102.00	EACH
0405	02569	DEMOBILIZATION	1.00	LS
0410	00212	CL2 ASPH BASE 1.00D PG64-22 - (ADDED 10-17-22)	270.00	TON
0415	20465EC	CLEAN CULVERT - (STA 1196+65) ADDED 10-17-22	1.00	LS
0420	20465EC	CLEAN CULVERT - (STA 1223+87.65) ADDED 10-17-22	1.00	LS
0425	20465EC	CLEAN CULVERT - (STA 1281+46.09) ADDED 10-17-22	1.00	LS
0430	20465EC	CLEAN CULVERT - (STA 1285+65.98) ADDED 10-17-22	1.00	LS
0435	20465EC	CLEAN CULVERT - (STA 1292+46.12) ADDED 10-17-22	1.00	LS
0440	20465EC	CLEAN CULVERT - (STA 1366+87.90) ADDED 10-17-22	1.00	LS

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0445	20465EC	CLEAN CULVERT - (STA 1387+91.51) ADDED 10-17-22	1.00	LS
0450	20465EC	CLEAN CULVERT - (STA 1401+50.86) ADDED 10-17-22	1.00	LS
0455	20465EC	CLEAN CULVERT - (STA 1416+42.95) ADDED 10-17-22	1.00	LS
0460	20465EC	CLEAN CULVERT - (STA 1421+87.53) ADDED 10-17-22	1.00	LS

CONTRACT ID: 224442

024GR22T030-HSIP & FD05

MP02401072101

GREENVILLE ROAD (KY 107) BEGIN 0.318 MILES NORTH OF WOODLANE HTS EXTENDING NORTH TO KY 189 ASPHALT RESURFACING, A DISTANCE OF 8.8 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	00001	DGA BASE	750.00	TON
0010	00190	LEVELING & WEDGING PG64-22	283.00	TON
0015	00301	CL2 ASPH SURF 0.38D PG64-22	7,180.00	TON
0020	02562	TEMPORARY SIGNS	310.00	SQFT
0025	02650	MAINTAIN & CONTROL TRAFFIC	1.00	LS
0030	02676	MOBILIZATION FOR MILL & TEXT	1.00	LS
0035	02677	ASPHALT PAVE MILLING & TEXTURING	143.00	TON
0040	02697	EDGELINE RUMBLE STRIPS	92,560.00	LF
0045	06510	PAVE STRIPING-TEMP PAINT-4 IN	50,000.00	LF
0050	06515	PAVE STRIPING-PERM PAINT-6 IN	95,000.00	LF
0055	10020NS	FUEL ADJUSTMENT	7,972.00	DOLL
0060	10030NS	ASPHALT ADJUSTMENT	19,345.00	DOLL
0065	24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	48.00	TON
0070	02569	DEMOBILIZATION	1.00	LS

HSIP GENERAL SUMMARY - Sheet 1 of 3

ITEM	DESCRIPTION	UNIT	TOTAL PROJECT
1	DGA BASE (4) (9) (11)	TON	4206
80	CRUSHED AGGREGATE SIZE NO 23 (1) (2) (9) (11)	TON	3254
100	ASPHALT SEAL AGGREGATE (4)	TON	235
103	ASPHALT SEAL COAT (4)	TON	30
212	CL2 ASPH BASE 1.00D PG64-22 (6)	TON	270
1987	DELINEATOR FOR GUARDRAIL BI DIR. WHITE (1)	EACH	15
2351	GUARDRAIL-STEEL W BEAM-S FACE (1)	LF	482.5
2355	GUARDRAIL STEEL W BEAM-S FACE A (1)	LF	200
8810	PRECAST CONC BRIDGE RAIL BLOCK (1)	EACH	6
2367	GUARDRAIL END TREATMENT TYPE 1 (1)	EACH	8
2381	REMOVE GUARDRAIL (1)	LF	320
8806	CASE 1-A BRIDGE RAIL (1)	LF	320
2378	GUARDRAIL CONNECTOR TO BRIDGE END TY D (1)	EACH	2
20191ED	OBJECT MARKER TY 3 (1)	EACH	8
26175EC	ROADSIDE REGRADING (2)	LF	33016
5952	TEMP MULCH	SQYD	50000
5953	TEMP SEEDING AND PROTECTION	SQYD	25000
5985	SEEDING AND PROTECTION	SQYD	25000
5963	INITIAL FERTILIZER	TON	5
5964	MAINTENANCE FERTILIZER	TON	3
462	CULVERT PIPE-18 IN (6)	LF	542
464	CULVERT PIPE-24 IN (6)	LF	402
1310	REMOVE PIPE (6) (3)	LF	733
2625	REMOVE HEADWALL (6)	EACH	42
26131ED	HEADWALL (SLOPED & MITERED CONCRETE FOR 18 IN PIPE) (6)	EACH	18
26132ED	HEADWALL (SLOPED & MITERED CONCRETE FOR 24 IN PIPE) (6)	EACH	16
1726	SAFETY BOX INLET-18 IN SDB-1 (6)	EACH	2
1728	SAFETY BOX INLET-18 IN SDB-5 (6)	EACH	4
440	ENTRANCE PIPE-15 IN (3)	LF	434
441	ENTRANCE PIPE-18 IN (3)	LF	68
443	ENTRANCE PIPE-24 IN (3)	LF	28
5950	EROSION CONTROL BLANKET (2) (9) (11)	SQYD	27000
2483	CHANNEL LINING CLASS II (2) (6) (7) (9) (11)	TON	5215
2484	CHANNEL LINING CLASS III (7)	TON	25
2701	TEMP SILT FENCE	LF	28882
2709	CLEAN TEMP SILT FENCE	LF	28882

- NOTES:
- QUANTITY CARRIED OVER FROM GUARDRAIL SUMMARY
 - QUANTITY CARRIED OVER FROM ROADSIDE REGRADING SUMMARY
 - QUANTITY CARRIED OVER FROM ENTRANCE PIPE SUMMARY
 - QUANTITY CARRIED OVER FROM DGA WEDGING SUMMARY
 - QUANTITY CARRIED OVER FROM MILLING SUMMARY
 - QUANTITY CARRIED OVER FROM PIPE SUMMARY
 - QUANTITY CARRIED OVER FROM BOX CULVERT SUMMARY
 - QUANTITY CARRIED OVER FROM SIGN SUMMARY
 - ADDITIONAL QUANTITY INCLUDED FOR USE AS DIRECTED BY ENGINEER
 - ALL QUANTITIES ARE ESTIMATED AND MAY NOT BE COMPLETELY USED.
 - QUANTITIES ADDED TO BE USED AS NEEDED FOR ENTRANCES, WIDENING OR AS ENGINEER DETERMINES ARE:

DGA 1000 TONS
CHANNEL LINING 200 TONS
EROSION CONTROL BLANKET 1373 SQYD
CRUSHED AGGREGATE SIZE NO 23 300 TONS



HSIP GENERAL SUMMARY - Sheet 2 of 3

ITEM	DESCRIPTION	UNIT	TOTAL PROJECT
2703	SILT TRAP TYPE A	EACH	10
2706	CLEAN SILT TRAP TYPE A	EACH	10
2704	SILT TRAP TYPE B	EACH	30
2707	CLEAN SILT TRAP TYPE B	EACH	30
2705	SILT TRAP TYPE C	EACH	20
2708	CLEAN SILT TRAP TYPE C	EACH	20
6406	SBM ALUM SHEET SIGNS .080 IN	SOFT	237
6407	SBM ALUM SHEET SIGNS .125 IN	SOFT	116
6410	STEEL POST TYPE 1	LF	935
21373ND	REMOVE SIGN	EACH	91
2463TEC	BARCODE SIGN INVENTORY	EACH	102
2562	TEMPORARY SIGNS	SOFT	300
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	3
2569	DEMOBILIZATION	LS	1
2650	MAINTAIN & CONTROL TRAFFIC	LS	1
2726	STAKING	LS	1
10020NS	FUEL ADJUSTMENT	DOLL	14,335
2403	REMOVE CONCRETE MASONRY	CUYD	4.45
8003	FOUNDATION PREPARATION (STA 1223+87.65)	LS	1
8003	FOUNDATION PREPARATION (STA 1266+83.92)	LS	1
8003	FOUNDATION PREPARATION (STA 1278+48.96)	LS	1
8003	FOUNDATION PREPARATION (STA 1281+46.09)	LS	1
8003	FOUNDATION PREPARATION (STA 1285+65.98)	LS	1
8003	FOUNDATION PREPARATION (STA 1366+87.90)	LS	1
8003	FOUNDATION PREPARATION (STA 1401+50.86)	LS	1
8003	FOUNDATION PREPARATION (STA 1416+42.95)	LS	1
8003	FOUNDATION PREPARATION (STA 1421+87.53)	LS	1
24694ED	BOX CULVERT (12'x5')	LF	7
24695ED	BOX CULVERT HEADWALL (12'x5', 30°SKEW, STA 1223+87.65)	EACH	1
24694ED	BOX CULVERT (4'X2')	LF	5
24695ED	BOX CULVERT HEADWALL (4'X2', 0°SKEW, STA 1266+83.92)	EACH	1
24694ED	BOX CULVERT (4'X2')	LF	5
24695ED	BOX CULVERT HEADWALL (4'X2', 0°SKEW, STA 1278+48.96)	EACH	1
24695ED	BOX CULVERT HEADWALL (3'X3', 0°SKEW, STA 1281+46.09)	EACH	1
24694ED	BOX CULVERT (5'X2')	LF	5
24695ED	BOX CULVERT HEADWALL (5'X2', 0°SKEW, STA 1285+65.98)	EACH	1

- NOTES:
- QUANTITY CARRIED OVER FROM GUARDRAIL SUMMARY
 - QUANTITY CARRIED OVER FROM ROADSIDE REGRADING SUMMARY
 - QUANTITY CARRIED OVER FROM ENTRANCE PIPE SUMMARY
 - QUANTITY CARRIED OVER FROM DGA WEDGING SUMMARY
 - QUANTITY CARRIED OVER FROM MILLING SUMMARY
 - QUANTITY CARRIED OVER FROM PIPE SUMMARY
 - QUANTITY CARRIED OVER FROM BOX CULVERT SUMMARY
 - QUANTITY CARRIED OVER FROM SIGN SUMMARY
 - ADDITIONAL QUANTITY INCLUDED FOR USE AS DIRECTED BY ENGINEER
 - ALL QUANTITIES ARE ESTIMATED AND MAY NOT BE COMPLETELY USED.
 - QUANTITIES ADDED TO BE USED AS NEEDED FOR ENTRANCES, WIDENING OR AS ENGINEER DETERMINES ARE:

DGA 1000 TONS
 CHANNEL LINING 200 TONS
 EROSION CONTROL BLANKET 1373 SOYD
 CRUSHED AGGREGATE SIZE NO 23 300 TONS



Mile Point	Station	Existing				Proposed												Comments													
		Pipe Size, Type	To Be Removed		Length (LF)	Remove Pipe (LF) ³	Pipe Extension Length (LF)		Class A Concrete for Intermediate Anchor/Collar (CU YD) ⁴	Entrance Pipe 15" (LF)	Culvert Pipe 18" (LF)	Culvert Pipe 24" (LF)	Culvert Pipe 30" (LF)	Culvert Pipe 36" (LF)	Culvert Pipe 42" (LF)	Headwall or Drainage Box			Ditching & Shouldering (LF)		Ditching (LF) (Perpendicular to Rdwy)		Channel Lining C II (TON)								
			Left Hdwl	Right Hdwl			Skew	Left								Right	Left		Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right		
25.27	1334+07	18" RCP	Stnd.	Stnd.	39	39			52						Sloped & Mitered Conc.							25									
25.35	1338+54	18" RCP	Stnd.	Stnd.	36	36		45							Sloped & Mitered Conc.																
25.64	1353+89	18" RCP	Stnd.	Stnd.	36	36		50							Sloped & Mitered Conc.																
25.79	1361+62	24" RCP	Stnd.	Stnd.	51	51	45°			62					Sloped & Mitered Conc.						25	50									
26.05	1375+39	24" RCP	Stnd.	Stnd.	33	33	0°			44					Sloped & Mitered Conc.																
26.14	1380+19	24" RCP	Stnd.	Stnd.	36	36	0°			50					Sloped & Mitered Conc.																
26.65	1407+14	24" RCP	Stnd.	Stnd.	34	34	0°			50					Sloped & Mitered Conc.						25	25	Raising Pipe Flowline								
26.96	1423+56	24" RCP	Stnd.	Stnd.	33	33	0°			45					Sloped & Mitered Conc.																
27.01	1426+06	24" RCP	Stnd.	Stnd.	42	42	0°			57					Sloped & Mitered Conc.						25	25	Raising Pipe Flowline								
						TOTALS:												733 LF		542 LF		402 LF		0 LF		0 LF		0 LF		525 TON	

ITEM	DESCRIPTION	UNIT	QUANTITY
462	CULVERT PIPE-18 IN	LF	542
464	CULVERT PIPE-24 IN	LF	402
1310	REMOVE PIPE	LF	733
1726	SAFETY BOX INLET-18 IN SDB-1	EACH	2
2483	CHANNEL LINING CLASS II	TON	525
2625	REMOVE HEADWALL	EACH	42
26131ED	HEADWALL (SLOPED & MITERED CONCRETE FOR 18 INCH PIPE)	EACH	18
26132ED	HEADWALL (SLOPED & MITERED CONCRETE FOR 24 INCH PIPE)	EACH	16
1728	SAFETY BOX INLET-18 IN DBL SDB-5	EACH	4
212	CL2 ASPH BASE 1.00D P664-22	TON	270

NOTES:

- These Pipe and Drainage Item quantities and locations are approximate and are intended to provide a basis for bids. Final locations, flow line elevations, grate elevations, and quantities will be determined by the Contractor and approved by the Engineer.
- Clearing and grubbing necessary to install drainage items, as directed by the Engineer, will be considered part of Site Preparation, which is incidental to the Contract.
- Embankment if place and Roadway Excavation shall be incidental to removing and replacing pipes.
- See Standard Drawing RDX-060-04 for intermediate anchor detail.
- Channel Lining quantity is estimated to be used on slopes less than 2:1 to be used as needed for Pipes and Roadside Regrading.
- All Quantities carried over to the General Summary.
- All culvert pipe and entrance pipe shall be metal pipe. Refer to the Standard Drawing RDI-001-10 for gauge requirements and Standard Drawing RDI-035-02 for coating, lining, and paving requirements.

ENTRANCE PIPE SUMMARY

STATION	LT/RT	REPLACE		ENTRANCE PIPE - 24 IN (LF)	REMOVE ENTRANCE PIPE (See Note Below)
		ENTRANCE PIPE - 15 IN (LF)	ENTRANCE PIPE - 18 IN (LF)		
1141+77	LT	43			REMOVE
1159+22	LT				REMOVE
1179+92	LT				REMOVE
1182+20	RT	32			
1185+37	LT	50			
1202+29	RT				REMOVE
1204+81	RT				REMOVE
1254+00	LT		32		
1265+05	RT				REMOVE
1336+25	LT	28			
1363+80	RT	36			
1365+15	LT	28			
1371+37	RT	36			
1378+76	RT		36		
1383+80	LT	55			
1394+05	RT	36			
1404+16	LT			28	
1405+11	RT	36			
1413+45	LT	27			
1413+00	LT	27			
Total		434	68	28	

ITEM	DESCRIPTION	UNIT	QUANTITY
440	ENTRANCE PIPE - 15 IN	LF	434
441	ENTRANCE PIPE - 18 IN	LF	68
443	ENTRANCE PIPE - 24 IN	LF	28
1310	REMOVE PIPE	LF	530

NOTES:

- These Pipe and Drainage Item quantities and locations are approximate and are intended to provide a basis for bids. Final locations, flow line elevations, grate elevations, and quantities will be determined by the Contractor and approved by the Engineer.
- Clearing and grubbing necessary to install drainage items, as directed by the Engineer, will be considered part of Site Preparation, which is incidental to the Contract.
- Payment for removal of entrance pipes included in the linear feet of Roadside Regrading.
- Refer to standard Drawings and Standard Specifications for pipe gauge, bedding and installation.
- All culvert pipe and entrance pipe shall be metal pipe. Refer to the Standard Drawing RDI-001-10 for gauge requirements and Standard Drawing RDI-035-02 for coating, lining, and paving requirements.
- All quantities carried over to the General Summary.
- Stations are by DMI and are for estimate and bidding purposes.

2020 STANDARD DRAWINGS THAT APPLY
2-9014

ROADWAY
~ BARRIERS ~

GUARDRAIL CONNECTORS TO BRIDGE ENDS

GUARDRAIL CONNECTOR TO BRIDGE END TYPE D..... RBC-004-08
GUARDRAIL CONNECTOR TO BRIDGE END TYPE D NOTES..... RBC-004N

TYPICAL BARRIER INSTALLATIONS

TYPICAL GUARDRAIL INSTALLATIONS..... RBI-001-12
TYPICAL GUARDRAIL INSTALLATIONS..... RBI-002-07
INSTALLATION OF GUARDRAIL END TREATMENT TYPE 1 RBI-004-06

GUARDRAIL HARDWARE

STEEL BEAM GUARDRAIL (W-BEAM) RBR-001-13
GUARDRAIL COMPONENTS RBR-005-11
GUARDRAIL TERMINAL SECTIONS RBR-010-06
STEEL GUARDRAIL POSTS RBR-015-06
GUARDRAIL END TREATMENT TYPE 1 RBR-020-07
DELINEATORS FOR GUARDRAIL RBR-005-01
DELINEATORS AT NARROW SHOULDER BRIDGES RBR-060

~ DRAINAGE ~

BOX INLETS AND OUTLETS

PAVED DITCHES, FLUME INLETS AND CHANNEL LININGS

CHANNEL LINING CLASS II AND III RDD-040-05

PIPE AND BOX CULVERT HEADWALLS

PRECAST BOX CULVERT HEADWALLS- 0° SKEW (BOX RISE LESS THAN 6'0")..... RDH-1000-02
PRECAST BOX CULVERT HEADWALLS-15° - 30° and 45° SKEW (BOX RISE LESS THAN 6'0")..... RDH-1010-02
DIMENSIONS 3'x2'-6'x6' HEADWALLS PRECAST BOX CULVERT - 0° SKEW..... RDH-1100-02
DIMENSIONS 3'x2'-6'x6' HEADWALLS PRECAST BOX CULVERT - 30° SKEW..... RDH-1140-02
DIMENSIONS 12'x4'-12'x12' HEADWALLS PRECAST BOX CULVERT - 30° SKEW..... RDH-1155-02
QUANTITIES 3'x2'- 12'x12' HEADWALLS, PRECAST BOX CULVERTS - 0° SKEW..... RDH-1200-02
QUANTITIES 3'x2'-12'x12' HEADWALLS, PRECAST BOX CULVERTS - 30° SKEW..... RDG-1210-02
BILL OF REINFORCEMENT 3'x2'-7'x4' HEADWALLS, PRECAST BOX CULVERTS - 0° SKEW..... RDH-1300-03
BILL OF REINFORCEMENT 3'x2'-5'x4' HEADWALLS, PRECAST BOX CULVERTS - 30° SKEW..... RDH-1328-03
BILL OF REINFORCEMENT 12'x4'-12'x8' HEADWALLS, PRECAST BOX CULVERTS - 30° SKEW..... RDH-1344-03

TYPICAL DRAINAGE INSTALLATIONS

Standard Drawings That Apply
Page 2 of 3

CULVERT, ENTRANCE & STORM SEWER PIPE TYPES & COVER HEIGHTS (12" – 24" PIPE)RDI-001-10
 CULVERT, ENTRANCE & STORM SEWER PIPE TYPES & COVER HEIGHTS (27" – 42" PIPE)RDI-002-05
 PIPE BEDDING FOR CULVERTS, ENTRANCE, AND STORM SEWER PIPERDI-020-10
 PIPE BEDDING FOR CULVERTS, ENTRANCE, AND STORM SEWER, REINFORCED CONC. PIPERDI-021-01
 PIPE BEDDING, TRENCH CONDITIONRDI-025-06
 PIPE BEDDING, TRENCH CONDITION, REINFORCED CONC. PIPERDI-026-01
 COATINGS, LININGS AND PAVINGS FOR NON-STRUCTURAL PLATE PIPERDI-035-02
 EROSION CONTROL BLANKET SLOPE INSTALLATIONRDI-040-01
 EROSION CONTROL BLANKET CHANNEL INSTALLATIONRDI-041-01
 FILL HEIGHTS FOR PRECAST REINFORCED CONCRETE BOX CULVERTS.....RDI-100-05
 BEDDING FOR PRECAST BOX CULVERTS, SEWERS, STORM DRAINS, AND THEIR
 COMBINATIONS.....RDI-120-04

MISCELLANEOUS DRAINAGE

TEMPORARY SILT FENCE..... RDX-210-03
 TEMPORARY SILT FENCE WITH WOVEN WIRE FENCE FABRIC..... RDX-215-01
 SILT TRAP - TYPE A RDX-220-05
 SILT TRAP - TYPE B RDX-225-01
 SILT TRAP - TYPE C RDX-230-01
 PRECAST BOX CULVERT EXTENSION RDX-300-04

~ GENERAL ~

MISCELLANEOUS STANDARDS

MISCELLANEOUS STANDARDS..... RGX-001-06

~ PAVEMENT ~

MEDIANS, CURBS, APPROACHES, ENTRANCES, ETC.

APPROACHES, ENTRANCES, AND MAIL BOX TURNOUTRPM-110-07

TRAFFIC

~ PERMANENT ~

MARKERS

PAVEMENT STRIPING DETAILS FOR TWO LANE TWO WAY ROADWAYS.....**Sepia 017**

RUMBLE STRIPS

SHOULDER & EDGELINE RUMBLE STRIPS PLACEMENT DETAILS TPR-115
 EDGELINE RUMBLE STRIP DETAILS TWO LANE ROADWAYS..... TPR-120
 SHOULDER RUMBLE STRIP DETAILS TWO LANE ROADWAYS TPR-125

~ TEMPORARY ~

TRAFFIC CONTROL

Standard Drawings That Apply
Page 3 of 3

LANE CLOSURE TWO-LANE HIGHWAY.....	TTC-100-05
SHOULDER CLOSURE	TTC-135-03

DEVICES

DOUBLE FINES ZONE SIGNS.....	TTD-120-03
PAVEMENT CONDITION WARNING SIGNS	TTD-125-03
SPEED ZONE SIGNING FOR WORK ZONES	TTD-130

STRIPING OPERATIONS

MOBILE OPERATION FOR PAINT STRIPING CASE I.....	TTS-100-02
MOBILE OPERATION FOR PAINT STRIPING CASE II.....	TTS-105-02

~ GENERAL ~

MISCELLANEOUS STANDARDS

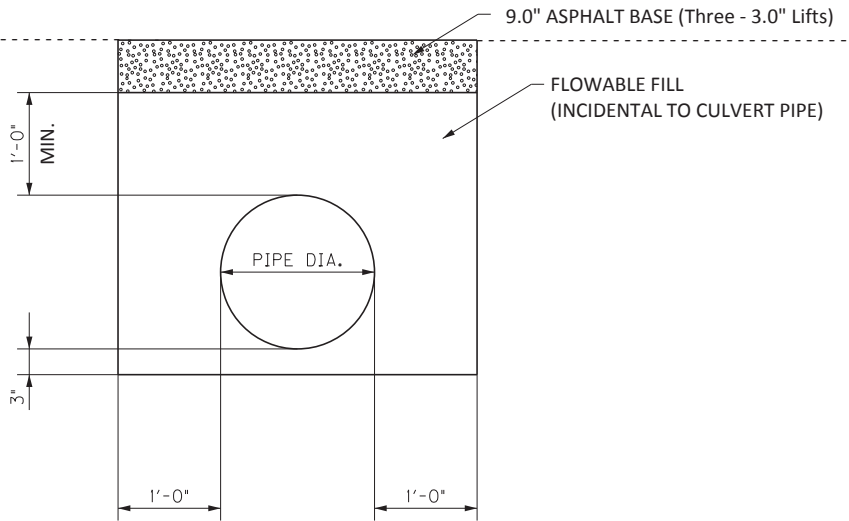
STENCILS FOR STRUCTURES.....	BGX-006-10
------------------------------	------------

~ HANDRAIL ~

STEEL HANDRAIL

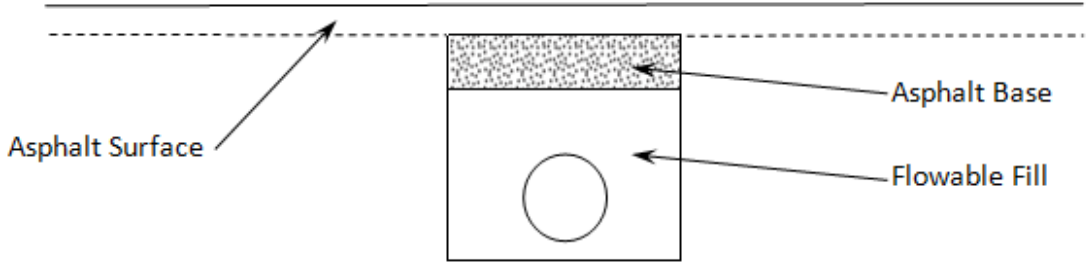
RAILING SYSTEM, TYPE II, GUARDRAIL TREATMENT	SEPIA-001
--	------------------

CULVERT PIPE REPLACEMENT DETAIL



CULVERT PIPE REPLACEMENTS - INITIAL BACKFILL

Culvert Pipe Replacements shall be constructed according to the Initial Backfill Detail shown above, or as directed by the Engineer. Allow the asphalt base to be exposed to traffic a minimum of 14 days to allow for settlement before placing asphalt surface.



PROPOSAL BID ITEMS

Report Date 10/17/22

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00001		DGA BASE	4,956.00	TON		\$	
0020	00080		CRUSHED AGGREGATE SIZE NO 23	3,254.00	TON		\$	
0030	00100		ASPHALT SEAL AGGREGATE	235.00	TON		\$	
0040	00103		ASPHALT SEAL COAT	30.00	TON		\$	
0050	00190		LEVELING & WEDGING PG64-22	283.00	TON		\$	
0055	00212		CL2 ASPH BASE 1.00D PG64-22 (ADDED 10-17-22)	270.00	TON		\$	
0060	00301		CL2 ASPH SURF 0.38D PG64-22	7,180.00	TON		\$	
0070	02562		TEMPORARY SIGNS	310.00	SQFT		\$	
0080	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0090	02676		MOBILIZATION FOR MILL & TEXT	1.00	LS		\$	
0100	02677		ASPHALT PAVE MILLING & TEXTURING	143.00	TON		\$	
0110	02697		EDGE LINE RUMBLE STRIPS	92,560.00	LF		\$	
0120	06510		PAVE STRIPING-TEMP PAINT-4 IN	50,000.00	LF		\$	
0130	06515		PAVE STRIPING-PERM PAINT-6 IN	95,000.00	LF		\$	
0140	10020NS		FUEL ADJUSTMENT	22,307.00	DOLL	\$1.00	\$	\$22,307.00
0150	10030NS		ASPHALT ADJUSTMENT	19,345.00	DOLL	\$1.00	\$	\$19,345.00
0160	24970EC		ASPHALT MATERIAL FOR TACK NON- TRACKING	48.00	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0170	01987		DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	15.00	EACH		\$	
0180	02351		GUARDRAIL-STEEL W BEAM-S FACE	482.50	LF		\$	
0190	02355		GUARDRAIL-STEEL W BEAM-S FACE A	200.00	LF		\$	
0200	02367		GUARDRAIL END TREATMENT TYPE 1	8.00	EACH		\$	
0210	02378		GUARDRAIL CONNECTOR TO BRIDGE END TY D	2.00	EACH		\$	
0220	02381		REMOVE GUARDRAIL	320.00	LF		\$	
0230	02483		CHANNEL LINING CLASS II	5,215.00	TON		\$	
0240	02484		CHANNEL LINING CLASS III	25.00	TON		\$	
0250	02650		MAINTAIN & CONTROL TRAFFIC (CHRISTIAN KY 107 HSIP)	1.00	LS		\$	
0260	02701		TEMP SILT FENCE	28,882.00	LF		\$	
0270	02703		SILT TRAP TYPE A	10.00	EACH		\$	
0280	02704		SILT TRAP TYPE B	30.00	EACH		\$	
0290	02705		SILT TRAP TYPE C	20.00	EACH		\$	
0300	02706		CLEAN SILT TRAP TYPE A	10.00	EACH		\$	
0310	02707		CLEAN SILT TRAP TYPE B	30.00	EACH		\$	
0320	02708		CLEAN SILT TRAP TYPE C	20.00	EACH		\$	
0330	02709		CLEAN TEMP SILT FENCE	28,882.00	LF		\$	
0340	02726		STAKING (CHRISTIAN KY 107 HSIP)	1.00	LS		\$	
0350	05950		EROSION CONTROL BLANKET	27,000.00	SQYD		\$	
0360	05952		TEMP MULCH	50,000.00	SQYD		\$	

PROPOSAL BID ITEMS

Page 2 of 4

Report Date 10/17/22

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0370	05953		TEMP SEEDING AND PROTECTION	25,000.00	SQYD		\$	
0380	05963		INITIAL FERTILIZER	5.00	TON		\$	
0390	05964		MAINTENANCE FERTILIZER	3.00	TON		\$	
0400	05985		SEEDING AND PROTECTION	25,000.00	SQYD		\$	
0410	08806		GUARDRAIL-BRIDGE CASE I-A	320.00	LF		\$	
0420	08810		PRECAST CONC BRIDGE RAIL BLOCK	6.00	EACH		\$	
0430	20191ED		OBJECT MARKER TY 3	8.00	EACH		\$	
0440	26175EC		ROADSIDE REGRADING	33,016.00	LF		\$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0450	00440		ENTRANCE PIPE-15 IN	434.00	LF		\$	
0460	00441		ENTRANCE PIPE-18 IN	68.00	LF		\$	
0470	00443		ENTRANCE PIPE-24 IN	28.00	LF		\$	
0480	00462		CULVERT PIPE-18 IN	542.00	LF		\$	
0490	00464		CULVERT PIPE-24 IN	402.00	LF		\$	
0500	01310		REMOVE PIPE	733.00	LF		\$	
0510	01726		SAFETY BOX INLET-18 IN SDB-1	2.00	EACH		\$	
0520	01728		SAFETY BOX INLET-18 IN DBL SDB-5	4.00	EACH		\$	
0530	02403		REMOVE CONCRETE MASONRY	4.45	CUYD		\$	
0540	02625		REMOVE HEADWALL	42.00	EACH		\$	
0550	08003		FOUNDATION PREPARATION (STA 1223+87.65)	1.00	LS		\$	
0560	08003		FOUNDATION PREPARATION (STA 1266+83.92)	1.00	LS		\$	
0570	08003		FOUNDATION PREPARATION (STA 1278+48.96)	1.00	LS		\$	
0580	08003		FOUNDATION PREPARATION (STA 1281+46.09)	1.00	LS		\$	
0590	08003		FOUNDATION PREPARATION (STA 1285+65.98)	1.00	LS		\$	
0600	08003		FOUNDATION PREPARATION (STA 1366+87.90)	1.00	LS		\$	
0610	08003		FOUNDATION PREPARATION (STA 1401+50.86)	1.00	LS		\$	
0620	08003		FOUNDATION PREPARATION (STA 1416+42.95)	1.00	LS		\$	
0630	08003		FOUNDATION PREPARATION (STA 1421+87.53)	1.00	LS		\$	
0631	20465EC		CLEAN CULVERT (STA 1196+65) ADDED 10-17-22	1.00	LS		\$	
0632	20465EC		CLEAN CULVERT (STA 1223+87.65) ADDED 10-17-22	1.00	LS		\$	
0633	20465EC		CLEAN CULVERT (STA 1281+46.09) ADDED 10-17-22	1.00	LS		\$	
0634	20465EC		CLEAN CULVERT (STA 1285+65.98) ADDED 10-17-22	1.00	LS		\$	

PROPOSAL BID ITEMS

Report Date 10/17/22

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0635	20465EC		CLEAN CULVERT (STA 1292+46.12) ADDED 10-17-22	1.00	LS		\$	
0636	20465EC		CLEAN CULVERT (STA 1366+87.90) ADDED 10-17-22	1.00	LS		\$	
0637	20465EC		CLEAN CULVERT (STA 1387+91.51) ADDED 10-17-22	1.00	LS		\$	
0638	20465EC		CLEAN CULVERT (STA 1401+50.86) ADDED 10-17-22	1.00	LS		\$	
0639	20465EC		CLEAN CULVERT (STA 1416+42.95) ADDED 10-17-22	1.00	LS		\$	
0640	24694ED		BOX CULVERT (STA 1223+87.65)	7.00	LF		\$	
0641	20465EC		CLEAN CULVERT (STA 1421+87.53) ADDED 10-17-22	1.00	LS		\$	
0650	24694ED		BOX CULVERT (STA 1266+83.92)	5.00	LF		\$	
0660	24694ED		BOX CULVERT (STA 1278+48.96)	5.00	LF		\$	
0670	24694ED		BOX CULVERT (STA 1285+65.98)	5.00	LF		\$	
0680	24694ED		BOX CULVERT (STA 1366+87.90)	7.00	LF		\$	
0690	24694ED		BOX CULVERT (STA 1401+50.86)	5.00	LF		\$	
0700	24694ED		BOX CULVERT (STA 1416+42.95)	5.00	LF		\$	
0710	24694ED		BOX CULVERT (STA 1421+87.53)	5.00	LF		\$	
0720	24695ED		BOX CULVERT HEADWALL (STA 1223+87.65)	1.00	EACH		\$	
0730	24695ED		BOX CULVERT HEADWALL (STA 1266+83.92)	1.00	EACH		\$	
0740	24695ED		BOX CULVERT HEADWALL (STA 1278+48.96)	1.00	EACH		\$	
0750	24695ED		BOX CULVERT HEADWALL (STA 1281+46.09)	1.00	EACH		\$	
0760	24695ED		BOX CULVERT HEADWALL (STA 1285+65.98)	1.00	EACH		\$	
0780	24695ED		BOX CULVERT HEADWALL (STA 1366+87.90)	1.00	EACH		\$	
0790	24695ED		BOX CULVERT HEADWALL (STA 1401+50.86)	1.00	EACH		\$	
0800	24695ED		BOX CULVERT HEADWALL (STA 1416+42.95)	1.00	EACH		\$	
0810	24695ED		BOX CULVERT HEADWALL (STA 1421+87.53)	1.00	EACH		\$	
0820	24814EC		PIPELINE INSPECTION	1,209.00	LF		\$	
0830	26131ED		SLOPED AND MITERED HEADWALL-18 IN	18.00	EACH		\$	
0840	26132ED		SLOPED AND MITERED HEADWALL-24 IN	16.00	EACH		\$	

PROPOSAL BID ITEMS

Report Date 10/17/22

Section: 0004 - SIGNING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0850	02562		TEMPORARY SIGNS	300.00	SQFT		\$	
0860	02671		PORTABLE CHANGEABLE MESSAGE SIGN	3.00	EACH		\$	
0870	06406		SBM ALUM SHEET SIGNS .080 IN	237.00	SQFT		\$	
0880	06407		SBM ALUM SHEET SIGNS .125 IN	116.00	SQFT		\$	
0890	06410		STEEL POST TYPE 1	935.00	LF		\$	
0900	21373ND		REMOVE SIGN	91.00	EACH		\$	
0910	24631EC		BARCODE SIGN INVENTORY	102.00	EACH		\$	

Section: 0005 - DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0920	02569		DEMOBILIZATION	1.00	LS		\$	