



COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET
www.transportation.ky.gov/

Andy Beshear
GOVERNOR

Jim Gray
SECRETARY

June 16, 2021

CALL NO. 300
CONTRACT ID NO. 211322
ADDENDUM # 1

Subject: Barren County, FD04 SPP 005 0090 017-022
Letting June 25, 2021

- (1) Added - Special Notes - Pages 1-7 of 7
- (2) Revised - Proposal Bid Items - Pages 73-78 of 78

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

SPECIAL NOTE FOR BRIDGE CLEANING AND PREVENTIVE MAINTENACE

1. DESCRIPTION. Perform all work in accordance with the Kentucky Transportation Cabinet, Department of Highway’s 2012 Standard Specification for Road and Bridge Construction applicable Supplemental Specifications, Standard Drawings, this Note and Attached Detailed Drawings. Section references are to the Standard Specifications. This work consists of the following: (1) Furnish all labor, materials, tools, and equipment; (2) Debris removal; (3) Stratified and pack rust removal; (4) Pressure washing; (5) Apply concrete coating; (6) Lubricate bearing devices. (7) Maintain and control traffic; (8) All other work required for this contract.

2. SUBMITTALS

The Contractor shall comply with the submittal requirements detailed in Section 108 of the Standard Specifications for Road and Bridge Construction (Current Edition) and submit the following **written** items to the Project Engineer **14 days** prior to the Pre-Construction Conference:

- A. A detailed Progress of Work Schedule.
- B. Traffic Control Plan.
- C. Manufacturers’ recommended Film Thickness and application conditions for the concrete coating system to be used.

All submittals must be received, accepted and/or approved by the KYTC Engineer prior to beginning any work.

3. MATERIALS.

A. Wash Water

Use clean potable water for all pressure washing.

B. Concrete Coatings

Use one of the coatings from the following manufactures:

Manufacture	Prime Coat	Finish Coat
Sherwin Williams	Macropoxy 646	Acrolon 218 HS
PPG	Amberlock 2	Devoe Devflex
Carboline	Carboguard 890	Carbothane 133 HB
Tnemec	Elastogrip 151	EnviroCrete 15

C. Bearing Lubricant

Use one of the lubricants from the following manufactures:

Manufacture	Lubricant
Bostik Inc.,	‘Never Seez - Mariner’s Choice’
Mobil Oil	‘Mobil Centaur Moly NLGI Grades 1 or 2
Certified Labs	‘Premalube #1 WG’

3. CONSTRUCTION.

A. Debris Removal.

All debris shall be removed from the bridge components. See attached detailed drawings for each bridge addressing components having debris removal. Equipment for removing debris from the bridge components shall be determined by the Contractor, subject to the approval of the Engineer. The Contractor shall prevent any debris from entering any body of water, bridge drainage system, or traffic lanes. All debris removed shall be disposed of in a suitable off-site disposal facility. Prior to all cleaning work, the Contractor shall conform that any bridge drainage system is not blocked by un-removable debris by rodding with a sewer rod or similar tool. A blocked drainage system is considered to be one from which debris cannot be removed using the means specified in this note. If the Engineer has been notified, and concurs that the drainage system is blocked prior to performing other cleaning work, then proceed at the direction of the engineer. If the Contractor does not inspect the bridge drainage system and notify the engineer prior to beginning work any blocked drains will be considered to be the result of the Contractor's operations, and all clearing and cleaning of the drainage system shall be done as part of the work of the specification. All vegetation present at areas of the bridge that are to be addressed in this proposal shall be removed as determined by the Engineer.

B. Stratified and Pack Rust Removal.

Stratified and pack rust shall be removed from all bearing devices. See attached detailed drawings for each bridge showing location and quantity of the bearing devices. Hand tools including wire brushes, scrapers or impact devices (hand hammers or power chisels) are to be used for removing stratified and pack rust. All surfaces to have stratified and pack rust removed shall be cleaned to an SSPC SP-2 level. All debris collected shall be disposed of in a suitable off-site disposal facility.

C. Pressure Washing.

Specified bridge components shall be pressure washed. See attached detailed drawings for each bridge addressing components to be pressure washed. All equipment for pressure washing shall be operated at a minimum pressure of up to 4,000 psi with 0 degree spinner tip and/or fan tips as determined by the engineer at the working location with a minimum flow rate of 3.5 gal/minute provided that these pressures do not damage any components of the structure. Pressure and flow rates shall be reduced to a level satisfactory to the Engineer should any damage occur due to power washing procedures. Pressure washing shall be operated at a distance of approximately six inches from and perpendicular to the surface. All pressure washing wands shall be equipped with a gauge to accurately determine the amount of pressure used. Pressure washing of any bridge element will proceed from top of wash area to bottom of wash area. Wash water will not be released to a bridge element previously washed. Perform all pressure washing at temperatures above 40 degrees Fahrenheit.

D. Concrete Coatings Application.

All abutment, end bent and pier caps, pedestals, end bent back walls and parapet walls including the abutment and end bent wing walls shall have concrete coating applied to as specified after debris removal and power washing. Use compressed air to remove any loose debris from the surfaces that are to be coated after power washing. See concrete coating diagram. All coatings shall be applied within manufacturers recommended dry film thickness range. Comply with KYTC “Standard Specifications for Road and Bridge Construction” Section 614.03.02 and coatings supplier recommended conditions for application. Allow the surfaces to be coated to dry before any coating is applied. The coating must be applied to a clean and dry surface. All coating application shall be executed using brushes, rollers, etc. No spray application will be permitted. The Department requires acceptance testing of samples obtained on a per-lot basis per-shipment. The Division of Materials shall perform acceptance testing. Test samples shall be taken at the Contractor’s paint storage site. Department personnel shall perform sampling. Allow (10) working days for testing and approval of the sampled paint. It is the Contractor’s responsibility to maintain an adequate inventory of approved paint. The Department shall assume no responsibility for lost work due to rejection of paint or approved paint subsequently found to be defective during the application process. Perform all concrete coating application at temperatures above 40 degrees Fahrenheit or in accordance with manufactures specifications.

The finish coat shall be gray and will meet the following values.

	L*	a*	b*
Grey	74.94	- 1.54	3.92

E. Bearing Lubrication Application.

Bearing devices shall be lubricated as specified after all stratified rust and pack rust is removed and power washing is complete, bearing devices shall have lubricant applied to all surfaces of the bearing including bearing plates and points of movement. See attached detailed drawings for each bridge showing location and quantity of the bearing devices. Allow bearing devices to dry before lubricant is applied. Perform all bearing lubrication application at temperatures above 40 degrees Fahrenheit or in accordance with manufactures specifications.

F. Sequence of Work.

Complete work in the sequence listed below:

1. Debris Removal
2. Stratified and Pact Rust Removal
3. Pressure Washing
4. Concrete Coating
5. Bearing Lubrication

G. Access.

The Contractor shall provide OSHA compliant safe access for all bridge cleaning and preventive maintenance operations and inspection.

H. Inspection.

The Cabinet will provide inspection for all items required in this contract. Visual inspection will be required upon completion of each work item for each structure component or at the discretion of the Engineer at any time. All visual inspection shall be performed within arm's length distance.

- 1. Debris Removal:** Visual Inspection
- 2. Stratified Rust or Pack Rust Removal:** Visual Inspection and Scraper
Test any surface cleaned to SSPC SP2 will be inspected by a dull scraper test to ascertain adherence of existing coating and a hammer test for tightness of pack rust.
- 3. Power Washing:** Visual Inspection
- 4. Concrete Coating:**
Prime Coat Application Check for dry film thickness*, and defects in paint
Finish Coat Application Check for dry film thickness*, paint appearance, color and quality of application.
*Destructive DFTs shall be used. Contractor shall repair all test locations, cost will be considered incidental to the contract.
- 5. Bearing Greasing:** Visual Inspection.

I. Verifying Field Conditions.

The Contractor shall be familiar with all conditions at each bridge site. The Cabinet will not consider any claims due to the Contractor having not familiarized themselves with requirements of this work. Residual lead paint may present on each bridge. The Contractor is advised to take all necessary protective measures including worker safety and environmental regulations when performing surface preparation. The Department will not consider any claims based on residual lead paint.

J. Damage to the structure.

The Contractor shall bear all responsibility and expense for any and all damage to the structure during the repair work, even to the removal and replacement of a fallen span, should the fallen span result from the Contractors actions.

4. MEASUREMENT.

Bridge Cleaning and Preventative Maintenance: The Cabinet will measure this item as "Lump Sum"

5. PAYMENT.

Bridge Cleaning and Preventative Maintenance (23949EC): The contract price for this item will be paid as a lump sum. The payment for this bid item at the contract unit price of Lump Sum shall be considered full compensation for complete and accepted work for all work items described in this note and attached detailed drawings which includes all labor, materials, equipment needed to complete all specified items in this contract for 'BRIDGE CLEANING AND PREVENTIVE MAINTENANCE'.

SPECIAL NOTE FOR SEALING BRIDGE DECKS

These Notes or designated portions thereof, apply where so indicated on the plans, proposals or bidding instruction.

I. DESCRIPTION. Perform all work in accordance with the Department's 2012 Standard Specifications, and applicable Supplemental Specifications, the attached sketches, and these Notes. Section references are to the Standard Specifications.

This work consists of: (1) Furnish all labor, materials, tools, and equipment; (2) Clean existing bridge deck; (3) Seal the existing bridge deck; (4) Maintain & control traffic; and, (5) Any other work specified as part of this contract.

II. MATERIALS.

A. Sealer. Use one of the following:

Product	Supplier
Protectosil BHN	Evonik Industries
Protectosil 300	Evonik Industries
TK-590-40 Tri-Silane 40%	TK Products
Certivex Penseal 244 O/W 80	Vexcon
Master Protect H 440 VT <i>(formerly Hydrozo Clear 40 VOC)</i>	BASF
SW-244-100 DOT	Chemical Products Industries, Inc.
TK-590-1 MS Tri-Silane	TK Products

III. CONSTRUCTION.

A. Cleaning the Deck. Dry clean the deck to remove all loose debris. Remove all visible hydrocarbons from the surface with detergent approved by the manufacturer of the deck sealant. Pressure wash all surfaces to be sealed at 2000 to 3000 psi. Install pressure gauges at each wand to verify pressure. Use 30° fan tip or as recommended by the manufacturer of the deck sealant. Hold pressure washing wand a minimum of 45° from the deck with a maximum stand-off distance of 12 inches.

B. Sealing the Deck. All concrete to be sealed must be clean, dry, and structurally sound. When concrete has been repaired, follow repair material manufacturer's recommended cure time prior to application of sealer. Allow new concrete to cure a minimum 28 days prior to application of sealer. Monitor weather conditions prior to sealer application. Refer to manufacturer's recommendations for proper ambient conditions. Do not apply sealer if precipitation is anticipated within the time stated by the manufacturer. Allow the deck to dry 24 hours (after washing or rain event) before sealer application. The deck can be reopened to traffic while drying. Sealer must be applied within 48 hours of washing or

the deck must be rewashed. Divide the deck into predefined areas of specific square footage to aid in determining usage. Comply with manufacturer's usage recommendation. Using a low pressure pump, apply sealer and spread evenly with broom or squeegee; do not allow pooling to remain. When each predefined area is complete, measure the amount of sealer used to verify proper usage. After sealing, follow manufacturer's recommended cure time before opening to traffic.

C. Inspection: Monitor all aspects of the project to assure compliance to this specification. Observe and document general conditions during the entirety of the project. Verify that each phase of work has been satisfactorily completed prior to beginning the next phase. Phases are described as follows:

1. Dry cleaning to remove loose debris, verify and document:
 - a. All debris has been removed and disposed of properly.
2. Removal of hydrocarbons, verify and document:
 - a. The manufacturer's recommended detergent is used for removal.
 - b. Hydrocarbons have been satisfactorily removed.
3. Pressure washing, verify and document:
 - a. Washing pressure at the wand.
 - b. Tip size used.
 - c. Wash angle and stand-off distance.
 - d. The deck is satisfactorily cleaned.
4. Sealer application, verify and document:
 - a. Proper cure time for new concrete.
 - b. Deck surface is dry.
 1. Document time since washed.
 2. Was deck opened to traffic after washing?
 - c. Ambient conditions.
 1. Document ambient temperature, surface temperature, relative humidity, and dew point.
 - d. Application and distribution method.
 - e. Coverage to be complete and even.
 - f. Material is not allowed to remain pooled.
 - g. Monitor material usage.
 - h. No traffic until proper cure time is allowed.

IV. MEASUREMENT

- A. Concrete Sealing.** The Department will measure the quantity per square feet of each area restored.

V. PAYMENT

- A. Concrete Sealing.** Payment at the contract unit price per square feet is full compensation for the following: (1) Furnish all labor, materials, tools, and

equipment; (2) Clean existing bridge deck; (3) Seal the existing bridge deck; (4) Maintain & control traffic; and, (5) Any other work specified as part of this contract.

PROPOSAL BID ITEMS

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Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00003		CRUSHED STONE BASE	26,906.00	TON		\$	
0020	00020		TRAFFIC BOUND BASE	751.00	TON		\$	
0030	00078		CRUSHED AGGREGATE SIZE NO 2	36,320.00	TON		\$	
0040	00190		LEVELING & WEDGING PG64-22	3,516.00	TON		\$	
0050	00212		CL2 ASPH BASE 1.00D PG64-22	3,065.00	TON		\$	
0060	00214		CL3 ASPH BASE 1.00D PG64-22	37,591.00	TON		\$	
0070	00221		CL2 ASPH BASE 0.75D PG64-22	1,099.00	TON		\$	
0080	00301		CL2 ASPH SURF 0.38D PG64-22	2,141.00	TON		\$	
0090	00388		CL3 ASPH SURF 0.38B PG64-22	6,725.00	TON		\$	
0100	20071EC		JOINT ADHESIVE	40,200.00	LF		\$	
0110	24970EC		ASPHALT MATERIAL FOR TACK NON-TRACKING	61.10	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0120	00021		DRAINAGE BLANKET-EMBANKMENT	9,235.00	CUYD		\$	
0130	01310		REMOVE PIPE	159.00	LF		\$	
0140	01585		REMOVE DROP BOX INLET	1.00	EACH		\$	
0150	01691		FLUME INLET TYPE 2	1.00	EACH		\$	
0160	01982		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	144.00	EACH		\$	
0170	01984		DELINEATOR FOR BARRIER - WHITE	28.00	EACH		\$	
0180	02014		BARRICADE-TYPE III	30.00	EACH		\$	
0190	02091		REMOVE PAVEMENT	2,225.00	SQYD		\$	
0200	02159		TEMP DITCH	10,985.00	LF		\$	
0210	02160		CLEAN TEMP DITCH	5,493.00	LF		\$	
0220	02200		ROADWAY EXCAVATION	234,621.00	CUYD		\$	
0230	02242		WATER	315.00	MGAL		\$	
0240	02259		FENCE-TEMP	3,490.00	LF		\$	
0250	02350		ADJUST GUARDRAIL	300.00	LF		\$	
0260	02360		GUARDRAIL TERMINAL SECTION NO 1	27.00	EACH		\$	
0270	02367		GUARDRAIL END TREATMENT TYPE 1	5.00	EACH		\$	
0280	02369		GUARDRAIL END TREATMENT TYPE 2A	1.00	EACH		\$	
0290	02371		GUARDRAIL END TREATMENT TYPE 7	15.00	EACH		\$	
0300	02381		REMOVE GUARDRAIL	4,447.00	LF		\$	
0310	02391		GUARDRAIL END TREATMENT TYPE 4A	14.00	EACH		\$	
0320	02397		TEMP GUARDRAIL	4,175.00	LF		\$	
0330	02403		REMOVE CONCRETE MASONRY	5.00	CUYD		\$	
0340	02429		RIGHT-OF-WAY MONUMENT TYPE 1	229.00	EACH		\$	
0350	02432		WITNESS POST	100.00	EACH		\$	
0360	02469		CLEAN SINKHOLE	5.00	EACH		\$	
0370	02483		CHANNEL LINING CLASS II	565.00	TON		\$	
0380	02484		CHANNEL LINING CLASS III	1,836.00	TON		\$	
0390	02545		CLEARING AND GRUBBING 66 ACRES	1.00	LS		\$	
0400	02562		TEMPORARY SIGNS	1,496.00	SQFT		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0410	02585		EDGE KEY	176.00	LF		\$	
0420	02602		FABRIC-GEOTEXTILE CLASS 1	2,770.00	SQYD		\$	
0430	02603		FABRIC-GEOTEXTILE CLASS 2	172,063.00	SQYD		\$	
0440	02607		FABRIC-GEOTEXTILE CLASS 2 FOR PIPE	5,666.00	SQYD	\$2.00	\$	\$11,332.00
0450	02610		RETAINING WALL-GABION	627.00	CUYD		\$	
0460	02625		REMOVE HEADWALL	21.00	EACH		\$	
0470	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0480	02671		PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH		\$	
0490	02676		MOBILIZATION FOR MILL & TEXT	1.00	LS		\$	
0500	02677		ASPHALT PAVE MILLING & TEXTURING	936.00	TON		\$	
0510	02690		SAFELoading	54.71	CUYD		\$	
0520	02696		SHOULDER RUMBLE STRIPS	12,700.00	LF		\$	
0530	02697		EDGELINE RUMBLE STRIPS	30,926.00	LF		\$	
0540	02701		TEMP SILT FENCE	10,985.00	LF		\$	
0550	02703		SILT TRAP TYPE A	66.00	EACH		\$	
0560	02704		SILT TRAP TYPE B	66.00	EACH		\$	
0570	02705		SILT TRAP TYPE C	66.00	EACH		\$	
0580	02706		CLEAN SILT TRAP TYPE A	66.00	EACH		\$	
0590	02707		CLEAN SILT TRAP TYPE B	66.00	EACH		\$	
0600	02708		CLEAN SILT TRAP TYPE C	66.00	EACH		\$	
0610	02726		STAKING	1.00	LS		\$	
0620	02731		REMOVE STRUCTURE (3'X3'X36' RCBC)	1.00	LS		\$	
0630	02731		REMOVE STRUCTURE (EXISTING BARN)	1.00	LS		\$	
0640	02898		RELOCATE CRASH CUSHION	4.00	EACH		\$	
0650	03171		CONCRETE BARRIER WALL TYPE 9T	1,420.00	LF		\$	
0660	03262		CLEAN PIPE STRUCTURE	5.00	EACH		\$	
0670	05950		EROSION CONTROL BLANKET	7,008.00	SQYD		\$	
0680	05952		TEMP MULCH	190,577.00	SQYD		\$	
0690	05953		TEMP SEEDING AND PROTECTION	142,933.00	SQYD		\$	
0700	05963		INITIAL FERTILIZER	6.00	TON		\$	
0710	05964		MAINTENANCE FERTILIZER	10.00	TON		\$	
0720	05985		SEEDING AND PROTECTION	192,146.00	SQYD		\$	
0730	05990		SODDING	267.00	SQYD		\$	
0740	05992		AGRICULTURAL LIMESTONE	124.00	TON		\$	
0750	06511		PAVE STRIPING-TEMP PAINT-6 IN	132,998.00	LF		\$	
0760	06514		PAVE STRIPING-PERM PAINT-4 IN	5,570.00	LF		\$	
0770	06542		PAVE STRIPING-THERMO-6 IN W	47,715.00	LF		\$	
0780	06543		PAVE STRIPING-THERMO-6 IN Y	34,699.00	LF		\$	
0790	06568		PAVE MARKING-THERMO STOP BAR-24IN	185.00	LF		\$	
0800	06569		PAVE MARKING-THERMO CROSS-HATCH	1,270.00	SQFT		\$	
0810	06574		PAVE MARKING-THERMO CURV ARROW	22.00	EACH		\$	
0820	08903		CRASH CUSHION TY VI CLASS BT TL3	4.00	EACH		\$	
0830	10020NS		FUEL ADJUSTMENT	164,405.00	DOLL	\$1.00	\$	\$164,405.00
0840	10030NS		ASPHALT ADJUSTMENT	212,057.00	DOLL	\$1.00	\$	\$212,057.00
0850	14086		W SERVICE SPECIAL 160' 1" HDPE WITH 160' 3" HDPE	1.00	EACH		\$	
0860	20072ES805		GRANULAR EMBANKMENT	4,956.00	TON		\$	
0870	20191ED		OBJECT MARKER TY 3	5.00	EACH		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0880	20318ES508		RELOCATE CONC BARRIER WALL	800.00	LF		\$	
0890	20458ES403		CENTERLINE RUMBLE STRIPS	19,093.00	LF		\$	
0900	20465EC		CLEAN CULVERT 8'X4'RCBC	1.00	LS		\$	
0910	20911ED		HIGH SLUMP 3000 PSI GROUT	1.30	CUYD		\$	
0920	21802EN		G/R STEEL W BEAM-S FACE (7 FT POST)	10,037.50	LF		\$	
0930	23274EN11F		TURF REINFORCEMENT MAT 1	21,198.00	SQYD		\$	
0940	23275EN11F		TURF REINFORCEMENT MAT 2	40.00	SQYD		\$	
0950	23607EC		PAVE MARK THERMO-LANE REDUCTION ARROW	6.00	EACH		\$	
0960	24423EC		TEMPORARY SHORING	1.00	LS		\$	
0970	24540		R/W MONUMENT TYPE 3	16.00	EACH		\$	
0980	25078ED		THRIE BEAM GUARDRAIL TRANSITION TL-3	4.00	EACH		\$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0990	00440		ENTRANCE PIPE-15 IN	1,496.00	LF		\$	
1000	00441		ENTRANCE PIPE-18 IN	698.00	LF		\$	
1010	00443		ENTRANCE PIPE-24 IN	571.00	LF		\$	
1020	00445		ENTRANCE PIPE-30 IN	221.00	LF		\$	
1030	00461		CULVERT PIPE-15 IN	400.00	LF		\$	
1040	00462		CULVERT PIPE-18 IN	208.00	LF		\$	
1050	00464		CULVERT PIPE-24 IN	584.00	LF		\$	
1060	00466		CULVERT PIPE-30 IN	175.00	LF		\$	
1070	00468		CULVERT PIPE-36 IN	336.00	LF		\$	
1080	00471		CULVERT PIPE-54 IN	58.00	LF		\$	
1090	00494		CULVERT PIPE-30 IN EQUIV	77.00	LF		\$	
1100	00496		CULVERT PIPE-36 IN EQUIV	70.00	LF		\$	
1110	01202		PIPE CULVERT HEADWALL-15 IN	2.00	EACH		\$	
1120	01204		PIPE CULVERT HEADWALL-18 IN	4.00	EACH		\$	
1130	01208		PIPE CULVERT HEADWALL-24 IN	7.00	EACH		\$	
1140	01212		PIPE CULVERT HEADWALL-36 IN	4.00	EACH		\$	
1150	01370		METAL END SECTION TY 1-15 IN	1.00	EACH		\$	
1160	01373		METAL END SECTION TY 1-24 IN	13.00	EACH		\$	
1170	01374		METAL END SECTION TY 1-30 IN	5.00	EACH		\$	
1180	01394		METAL END SECTION TY 3-30 IN	2.00	EACH		\$	
1190	01395		METAL END SECTION TY 3-36 IN	2.00	EACH		\$	
1200	01413		METAL END SECTION TY 4-24 IN	1.00	EACH		\$	
1210	01434		SLOPED BOX OUTLET TYPE 1-24 IN	4.00	EACH		\$	
1220	01450		S & F BOX INLET-OUTLET-18 IN	2.00	EACH		\$	
1230	01451		S & F BOX INLET-OUTLET-24 IN	2.00	EACH		\$	
1240	01452		S & F BOX INLET-OUTLET-30 IN	7.00	EACH		\$	
1250	01453		S & F BOX INLET-OUTLET-36 IN	4.00	EACH		\$	
1260	01490		DROP BOX INLET TYPE 1	1.00	EACH		\$	
1270	01496		DROP BOX INLET TYPE 3	1.00	EACH		\$	
1280	01514		DROP BOX INLET TYPE 5E	4.00	EACH		\$	
1290	01577		DROP BOX INLET TYPE 14	1.00	EACH		\$	
1300	01580		DROP BOX INLET TYPE 15	3.00	EACH		\$	

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1310	01643		JUNCTION BOX-24 IN	1.00	EACH		\$	
1320	01660		SPRING BOX INLET TYPE A	1.00	EACH		\$	
1330	01670		SPRING BOX INLET TYPE B	1.00	EACH		\$	
1340	21799EN		BORE AND JACK PIPE-24 IN	76.00	LF		\$	
1350	21800EN		BORE AND JACK PIPE-30 IN	60.00	LF		\$	
1360	24186EC		BORE AND JACK PIPE-36 IN	120.00	LF		\$	
1370	24814EC		PIPELINE INSPECTION	3,657.00	LF		\$	

Section: 0004 - BRIDGE - OVER BRUSHY FORK CREEK - DRAWING # 27387

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1380	02231		STRUCTURE GRANULAR BACKFILL (REVISED: 6-16-21)	300.00	CUYD		\$	
1400	03299		ARMORED EDGE FOR CONCRETE (REVISED: 6-16-21)	364.00	LF		\$	
1410	08001		STRUCTURE EXCAVATION-COMMON	629.00	CUYD		\$	
1420	08002		STRUCTURE EXCAV-SOLID ROCK	288.00	CUYD		\$	
1430	08019		CYCLOPEAN STONE RIP RAP	802.00	TON		\$	
1440	08100		CONCRETE-CLASS A	677.00	CUYD		\$	
1450	08104		CONCRETE-CLASS AA (REVISED: 6-16-21)	228.00	CUYD		\$	
1460	08150		STEEL REINFORCEMENT (REVISED: 6-16-21)	73,851.00	LB		\$	
1470	08151		STEEL REINFORCEMENT-EPOXY COATED (REVISED: 6-16-21)	52,172.00	LB		\$	
1480	08500		APPROACH SLAB (REVISED: 6-16-21)	324.00	SQYD		\$	
1490	08634		PRECAST PC I BEAM TYPE 4	687.00	LF		\$	
1495	23378EC		CONCRETE SEALING (ADDED: 6-16-21)	5,827.00	SQFT		\$	
1502	24982EC		CONCRETE COATING (ADDED: 6-16-21)	1.00	LS		\$	
1505	25028ED		RAIL SYSTEM SINGLE SLOPE - 40 IN (ADDED: 6-16-21)	200.00	LF		\$	

Section: 0005 - BRIDGE - CULVERT - SINGLE 5.0 X 4.0 - DRAWING # 27215

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1510	08001		STRUCTURE EXCAVATION-COMMON	210.00	CUYD		\$	
1520	08002		STRUCTURE EXCAV-SOLID ROCK	22.00	CUYD		\$	
1530	08100		CONCRETE-CLASS A	73.20	CUYD		\$	
1540	08150		STEEL REINFORCEMENT	5,519.00	LB		\$	

Section: 0006 - BRIDGE - CULVERT - SINGLE 9.0 X 5.0 - DRAWING # 27386

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1550	08001		STRUCTURE EXCAVATION-COMMON	181.00	CUYD		\$	
1560	08002		STRUCTURE EXCAV-SOLID ROCK	23.00	CUYD		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1570	08100		CONCRETE-CLASS A	148.90	CUYD		\$	
1580	08150		STEEL REINFORCEMENT	11,267.00	LB		\$	

Section: 0007 - BRIDGE - CULVERT - SINGLE 5.0 X 4.0 - DRAWING # 27385

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1590	08002		STRUCTURE EXCAV-SOLID ROCK	33.00	CUYD		\$	
1600	08003		FOUNDATION PREPARATION	1.00	LS		\$	
1610	08100		CONCRETE-CLASS A	75.80	CUYD		\$	
1620	08150		STEEL REINFORCEMENT	6,439.00	LB		\$	

Section: 0008 - BRIDGE - CULVERT - SINGLE 6.0 X 4.0 - DRAWING # 27216

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1630	08002		STRUCTURE EXCAV-SOLID ROCK	34.00	CUYD		\$	
1640	08003		FOUNDATION PREPARATION	1.00	LS		\$	
1650	08100		CONCRETE-CLASS A	104.00	CUYD		\$	
1660	08150		STEEL REINFORCEMENT	8,978.00	LB		\$	

Section: 0009 - BRIDGE - CULVERT - SINGLE 8.0 X 4.0 - DRAWING # 27217

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1670	02223		GRANULAR EMBANKMENT	20.00	CUYD		\$	
1680	08002		STRUCTURE EXCAV-SOLID ROCK	2.00	CUYD		\$	
1690	08003		FOUNDATION PREPARATION	1.00	LS		\$	
1700	08100		CONCRETE-CLASS A	65.50	CUYD		\$	
1710	08150		STEEL REINFORCEMENT	5,602.00	LB		\$	
1720	08305		REMOVE REINF CONCRETE	1.00	LS		\$	

Section: 0010 - SIGNING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1730	06406		SBM ALUM SHEET SIGNS .080 IN	327.00	SQFT		\$	
1740	06407		SBM ALUM SHEET SIGNS .125 IN	171.00	SQFT		\$	
1750	06410		STEEL POST TYPE 1	1,237.00	LF		\$	
1760	21373ND		REMOVE SIGN	6.00	EACH		\$	
1770	24631EC		BARCODE SIGN INVENTORY	93.00	EACH		\$	
1780	24751ED		REMOVE STORE & REINSTALL (EXISTING SIGN ON PROPOSED SIGN POST)	14.00	EACH		\$	

Section: 0011 - PAVEMENT UNDERDRAIN

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1790	00078		CRUSHED AGGREGATE SIZE NO 2	82.00	TON		\$	

PROPOSAL BID ITEMS

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1800	01000		PERFORATED PIPE-4 IN	147.00	LF		\$	
1810	01005		PERFORATED PIPE EDGE DRAIN-4 IN	23,638.00	LF		\$	
1820	01006		PERFORATED PIPE EDGE DRAIN-6 IN	10,050.00	LF		\$	
1830	01010		NON-PERFORATED PIPE-4 IN	736.00	LF		\$	
1840	01011		NON-PERFORATED PIPE-6 IN	144.00	LF		\$	
1850	01020		PERF PIPE HEADWALL TY 1-4 IN	7.00	EACH		\$	
1860	01021		PERF PIPE HEADWALL TY 1-6 IN	2.00	EACH		\$	
1870	01024		PERF PIPE HEADWALL TY 2-4 IN	6.00	EACH		\$	
1880	01025		PERF PIPE HEADWALL TY 2-6 IN	1.00	EACH		\$	
1890	01028		PERF PIPE HEADWALL TY 3-4 IN	49.00	EACH		\$	
1900	01029		PERF PIPE HEADWALL TY 3-6 IN	13.00	EACH		\$	
1910	01032		PERF PIPE HEADWALL TY 4-4 IN	3.00	EACH		\$	
1920	01033		PERF PIPE HEADWALL TY 4-6 IN	1.00	EACH		\$	

Section: 0012 - MOBILIZATION / DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1930	02568		MOBILIZATION	1.00	LS		\$	
1940	02569		DEMOBILIZATION	1.00	LS		\$	