

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

Andy Beshear Governor Jim Gray Secretary

December 7, 2021

CALL NO. 108 CONTRACT ID NO. 211056 ADDENDUM # 3

Subject: Boyd County, STP 5211(123) Letting December 10, 2021

- (1) Added Special Note Pages 23(a)-23(c) of 362
- (2) Revised Right of Way Certification Page 47 of 362
- (3) Revised Utility Note Pages 85-90 of 362
- (4) Added Water Items Clarification Note Pages 100(a)-100(b) of 362
- (5) Revised Proposal Bid Items Pages 353-362 of 362
- (6) Revised Plan Sheets R2J and R2K

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

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

Sincerely,

Rachel Mills,

Kachel Mille

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

RM:mr Enclosures

# SPECIAL NOTE FOR CONCRETE SEALING

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 2019 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 the bridge deck; (3) Seal the 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 300S	Evonik Industries
TK-590-40 Tri-Silane 40%	TK Products
SW-244-100	Chemical Products Industries, Inc.
TK-590-1 MS Tri-Silane	TK Products
MasterProtect H1000	BASF
Aquanil Plus 40	ChemMasters
SIL-ACT ATS-100	Advanced Chemical Technologies
Certivex Penseal BTS 100%	Vexcon
Pentreat 244-40	W.R. Meadows
Aquanil Plus 40A	ChemMasters

**B.** Coverage Rate: Follow all manufacturers recommendations for coverage rates except the application rate must not exceed the square footage coverage rate per gallon of sealer as given in the chart below. If the manufacturer recommends a coverage rate greater than given in the table below, apply sealer at the rate given in the table below for the chosen sealers silane percentage.

% Silane	Coverage rate (ft <sup>2</sup> /gallon)
100	300
40	120
20	60

# III. CONSTRUCTION.

- A. Curing Compound. Contrary to Section 609.03.12 of the specifications, curing compound is not to be used on this deck due to potentially causing issues with the concrete sealer. During the deck pour, finishing, and tining operations the Class AA concrete shall be kept continuously moist with the use of a mister until burlap or curing blankets are applied to the surface. At no point should water be pooling or running off the surface or the surface of the concrete be allowed to become dry. After the burlap or curing blankets are installed, cure in accordance with the specifications. Include all costs in the unit price bid for Class AA concrete. Failure to properly cure the concrete in accordance with this note and the specifications may result in weakened or cracked concrete. If the concrete is weakened or cracked due to improper curing, the contractor will be responsible for providing alternates to fix the issues to the Engineer for review and the contractor will be solely responsible for all costs to do so, up to complete replacement. Do not begin any construction on fixing any issues without approval of the Engineer.
- **B.** 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.
- **C. Sealing the Deck.** 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. On vertical surfaces, apply the sealer in a flooding application from the bottom up, so the material runs down 6 to 8 inches below the spray pattern.

- **D. 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 sealed.

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

BOYD COUNTY STP 5211(123)



## KENTUCKY TRANSPORTATION CABINET Department of Highways DIVISION OF RIGHT OF WAY & UTILITIES

TC 62-226 Rev. 01/2016 Page 1 of 1

#### **RIGHT OF WAY CERTIFICATION**

Internet         Internet         COUNTY         PROJECT # (STATE)         PROJECT # (FEDERAL)           09-8400.00         Boyd         1381 JL04 010 8292801R         PROJECT # (STATE)         PROJECT # (STATE)           PROJECT DESCRIPTION         IMPROVE US-60 FROM I-64 AT INTERCHANGE 181 TO THE KY-180 INTERSECTION AT CANNONSBURG, (08CCN)         (10CCR)(12CCR)           Improve US-60 FROM I-64 AT INTERCHANGE 181 TO THE KY-180 INTERSECTION AT CANNONSBURG, (08CCN)         (10CCR)(12CCR)           Improve US-60 FROM I-64 AT INTERCHANGE 181 TO THE KY-180 INTERSECTION AT CANNONSBURG, (08CCN)         (10CCR)(12CCR)           Improve US-60 FROM I-64 AT INTERCHANGE 181 TO THE KY-180 INTERSECTION AT CANNONSBURG, (08CCN)         (10CCR)(12CCR)           Improve US-60 FROM I-64 AT INTERCHANGE 181 TO THE KY-180 INTERSECTION AT CANNONSBURG, (08CCN)         (10CCR)(12CCR)           Improvement State and Real Property Acquisitions Policy Act of 1970, as amended. No additional right of way or relocation assistance were required for this project.         (10CCR)(12CCR)           Improvement Ausiang and physical prosession has been paid or deposited with the counts on the deposited with the counts on the deposited with the counts on the ght of way network base been relocated to decent, safe, and sanitary housing or that KYTC has physical possession and right of the proper execution of the current PINA directive.         (Condition # 2 (Additional Right of Way Required with Exception)           The regularizement housing in accordance with Approvements have ware of and KYTC has physical possession and right to remove, salvage, or de	Original 🛛 Re-0	Certification		RIGHTO	F WAY CERTIFICATI	ON
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# GENERAL UTILITY NOTES AND INSTRUCTIONS APPLICABLE TO ALL UTILITY WORK MADE A PART OF THE ROAD CONSTRUCTION CONTRACT

The contractor should be aware the following utility notes and KYTC Utility Bid Item Descriptions shall supersede, replace and take precedence over any and all conflicting information that may be contained in utility owner supplied specifications contained in the contract, on plans supplied by the utility owner, or any utility owner specifications or information externally referenced in this contract.

Where information may have been omitted from these notes, bid item descriptions, utility owner supplied specifications or plans; the KYTC Standard Specifications for Road and Bridge Construction shall be referenced.

## PROTECTION OF EXISTING UTILITIES

The existing utilities shown on the plans are shown as best known at the time the plans were developed and are to be used as a guide only by the Contractor. The Contractor shall use all means at his disposal to accurately locate all existing utilities, whether shown on the plans or not, prior to excavation. The contractor shall protect these utilities during construction. Any damage to existing utilities during construction that are shown or not shown on the plans shall be repaired at the Contractor's expense.

## PREQUALIFIED UTILITY CONTRACTORS

Some utility owners may require contractors that perform relocation work on their respective facilities as a part of the road contract be prequalified or preapproved by the utility owner. Those utility owners with a prequalification or preapproval requirement are as follows:

## Cannonsburg Water

The Walker Company 200 Apperson Heights Suite 200 Mount Sterling, KY 40353 859-498-0092

C. J. Hughes Construction Co., Inc. David Combs, Vice President P. O. Box 7305 Huntington, WV 25776

General Utility Notes For Utility Work In Road Contracts *Effective with the May 27, 2016 letting* 

Phone (Switchboard); 304-522-3868 Phone (Direct); 304-399-2303 Fax; 304-522-2729 Email; dcombs@cjhughes.com

Triple B Construction Mitch Ball, Owner 2405 South Big Run Road Ashland, KY 41102 304-633-4011

Opell Excavating Steve Opell, Owner 12084 Virginia Blvd Ashland, KY 41102 606-928-3799

Southern Ohio Trenching and Excavating Mark Bammer, Owner 3228 County Road 103 Ironton, OH 45638 740-533-0030

Conn Hurst Construction Fred Conn connhurst@hotmail.com 606-286-0387 879 Wilson Run Road Wallingford, KY 41093

Swartz Pipeline Kyle Swartz swartz@kih.net 859-432-8888 292 Midland Trail Road Mt. Sterling, KY 40353

Fredrick & May Construction Jamie Shields <u>Kyboy316@gmail.com</u> 606-743-4327 606-776-0030 PO Box 337 West Liberty, KY 41472

## Sanitation District #4

Southern Ohio Construction B J 740-352-8930 3228 County Rd 103 Ironton, OH 45638

C. J. Hughes Mark Distel 304-522-3868 740-352-8930 75 3rd Ave Huntington, WV 25701

Triple B Construction 606-585-4733 2405 South Big Run Rd Ashland, KY 41102

Conn Hurst Construction Fred Conn connhurst@hotmail.com 606-286-0387 879 Wilson Run Road Wallingford, KY 41093

Swartz Pipeline Kyle Swartz swartz@kih.net 859-432-8888 292 Midland Trail Road Mt. Sterling, KY 40353

Fredrick & May Construction Jamie Shields <u>Kyboy316@gmail.com</u> 606-743-4327 606-776-0030 606-776-4321 PO Box 337 West Liberty, KY 41472

The bidding contractor needs to review the above list and choose from the list of approved subcontractors at the end of these general notes as identified above before bidding. When the list of approved

General Utility Notes For Utility Work In Road Contracts *Effective with the May 27, 2016 letting* 

Page **3** of **6** *rev. 20151112*  subcontractors is provided, only subcontractors shown on the following list(s) will be allowed to work on that utility as a part of this contract.

When the list of approved subcontractors for the utility work is <u>not</u> provided in these general notes, the utility work can be completed by the prime contractor. If the prime contractor chooses to subcontract the work, the subcontractor shall be prequalified with the KYTC Division of Construction Procurement in the work type of "Utilities" (I33). Those who would like to become prequalified may contact the Division of Construction Procurement at (502) 564-3500. Please note: it could take up to 30 calendar days for prequalification to be approved. The prequalification does not have to be approved prior to the bid, but must be approved before the subcontract will be approved by KYTC and the work can be performed.

## CONTRACT ADMINISTRATION RELATIVE TO UTILITY WORK

All utility work is being performed as a part of a contract administered by KYTC; there is not a direct contract between the utility contractor and utility owner. The KYTC Section Engineer is ultimately responsible for the administration of the road contract and any utility work included in the contract.

## SUBMITTALS AND CORRESPONDENCE

All submittals and correspondence of any kind relative to utility work included in the road contract shall be directed to the KYTC Section Engineer, a copy of which may also be supplied to the utility owner by the contractor to expedite handling of items like material approvals and shop drawings. All approvals and correspondence generated by the utility owner shall be directed to the KYTC Section Engineer. The KYTC Section Engineer will relay any approvals or correspondence to the utility contractor as appropriate. At no time shall any direct communication between the utility owner and utility contractor without the communication flowing through the KYTC Section Engineer be considered official and binding under the contract.

## **ENGINEER**

Where the word "Engineer" appears in any utility owner specifications included in this proposal, utility owner specifications included as a part of this contract by reference or on the utility relocation plans, it shall be understood the "Engineer" is the Kentucky Transportation Cabinet (KYTC) Section Engineer or designated representative and the utility owner engineer or designated representative jointly. Both engineers must mutually agree upon all decisions made with regard to the utility construction. The Transportation Cabinet, Section Engineer shall make all final decisions in all disputes.

## INSPECTOR OR RESIDENT PROJECT REPRESENTATIVE

Where the word "Inspector" or "Resident Project Representative" appears in the utility specifications included in this proposal, utility owner specifications included as a part of this contract by reference or on the utility relocation plans, it shall be understood the "Inspector" or "Resident Project Representative" is the utility owner inspector and KYTC inspector jointly. The Transportation Cabinet, Section Engineer shall make all final decisions in all disputes.

## NOTICE TO UTILITY OWNERS OF THE START OF WORK

One month before construction is to start on a utility, the utility contractor shall make notice to the KYTC Section Engineer and the utility owner of when work on a utility is anticipated to start. The utility contractor shall again make confirmation notice to the KYTC Section Engineer and the utility owner one week before utility work is to actually start.

### UTILITY SHUTDOWNS

The Contractor shall not shut down any active and in-service mains, utility lines or services for any reason unless specifically given permission to do so by the utility owner. The opening and closing of valves and operating of other active utility facilities for main, utility line or utility service shut downs are to be performed by the utility owner unless specific permission is given to the contractor by the owner to make shutdowns . If and when the utility owner gives the contractor permission to shutdown mains, utility lines or utility services, the contractor shall do so following the rules, procedures and regulations of the utility owner. Any permission given by the utility owner to the contractor to shutdown active and in-service mains, utility lines or services shall be communicated to the KYTC Section Engineer by the utility owner that such permission has been given.

Notice to customers of utility shut downs is sometimes required to be performed by the utility contractor. The contractor may be required; but, is not limited to, making notice to utility customers in a certain minimum amount of time in advance of the shut down and by whatever means of communication specified by the utility owner. The means of communication to the customer may be; but is not limited to, a door hanger, notice by newspaper ad, telephone contact, or any combination of communication methods deemed necessary, customary and appropriate by the utility owner. The contractor should refer to the utility owner specifications for requirements on customer notice.

Any procedure the utility owner may require the contractor to perform by specification or plan note and any expense the contractor may incur to comply with the utility owner's shut down procedure and notice to customers shall be considered an incidental expense to the utility construction.

<u>CUSTOMER SERVICE AND LATERAL ABANDONMENTS</u> When temporary or permanent abandonment of customer water, gas, or sewer services or laterals are necessary during relocation of utilities included in the contract, the utility contractor shall perform these abandonments as part of the contract as incidental work. No separate payment will be made for service line and lateral abandonments. The contractor shall provide all labor, equipment and materials to accomplish the temporary or permanent abandonment in accordance with the plans, specifications and/or as directed by the engineer. Abandonment may include, but is not limited to, digging down on a water or gas main at the tap to turn off the tap valve or corporation stop and/or capping or plugging the tap, digging down on a service line or lateral at a location shown on the plans or agreeable to the engineer and capping or plugging, or performing any other work necessary to abandon the service or lateral to satisfactorily accomplish the final utility relocation.

## STATIONS AND DISTANCES

All stations and distances, when indicated for utility placement in utility relocation plans or specifications, are approximate; therefore, some minor adjustment may have to be made during construction to fit actual field conditions. Any changes in excess of 6 inches of plan location shall be reviewed and approved jointly by the KYTC Section Engineer or designated representative and utility owner engineer or designated representative. Changes in location without prior approval shall be remedied by the contractor at his own expense if the unauthorized change creates an unacceptable conflict or condition.

### RESTORATION

Temporary and permanent restoration of paved or stone areas due to utility construction shall be considered incidental to the utility work. No separate payment will be made for this work. Temporary restoration shall be as directed by the KYTC Section Engineer. Permanent restoration shall be "in-kind" as existing.

Restoration of seed and sod areas will be measured and paid under the appropriate seeding and sodding bid items established in the contract for roadway work.

# BELOW ARE NOTES FOR WHEN "INST" ITEMS ARE IN THE CONTRACT MEANING THE UTILITY COMPANY IS PROVIDING CERTAIN MATERIALS FOR UTILITY RELOCATION

## MATERIAL

Contrary to Utility Bid Item Descriptions, those bid items that have the text "Inst" at the end of the bid item will have the major components of the bid item provided by the utility owner. No direct payment will be made for the major material component(s) supplied by the utility company. All remaining materials required to construct the bid item as detailed in utility bid item descriptions, in utility specifications and utility plans that are made a part of this contract will be supplied by the contractor. The contractor's bid price should reflect the difference in cost due to the provided materials.

The following utility owners have elected to provide the following materials for work under this contract:

## "No materials are being supplied by the utility owner(s). All materials are to be supplied by the contractor per bid item descriptions, utility specifications and utility plans."

## SECURITY OF SUPPLIED MATERIALS

If any utility materials are to be supplied by the utility owner, it will be the responsibility of the utility contractor to secure all utility owner supplied materials after delivery to the project site. The utility contractor shall coordinate directly with the utility owner and their suppliers for delivery and security of the supplied materials. Any materials supplied by the utility owner and delivered to the construction site that are subsequently stolen, damaged or vandalized and deemed unusable shall be replaced with like materials at the contractor's expense.

Boyd County 9-8400.00 Waterline Clarifications

### Section: 0016-WATERLINE

Bid Item:

14056 W PIPE PVC 02 INCH 14057 W PIPE PVC 03 INCH 14059 W PIPE PVC 06 INCH 14060 W PIPE PVC 08 INCH 14062 W PIPE PVC 12 INCH

- Waterline 4-inch diameter and greater shall be DR 21 C900 PVC. Waterline smaller than 4-inch diameter shall be ASTM D 2241 SDR 21 PVC.

#### **Bid Item:**

## **14004 W DIRECTIONAL BORE**

- Waterline directional bore pipe material shall be DR 11 HDPE.

#### Bid item:

14019 W FIRE HYDRANT ASSEMBLY 14022 W FLUSH HYDRANT ASSEMBLY

- For hydrant connections provide 3 Foster Adaptor fittings between the fire hydrant and gate valve, with two 90 degree mechanical joint bends to allow swivel adjustment of fire hydrant.

#### **Bid Item:**

14080 W SERV PE/PLST LONG SIDE ¾ IN 14084 W SERV PE/PLST SHORT SIDE 2 IN 14085 W SERV PE/PLST SHORT SIDE ¾ IN

- Pipe for 3/4-inch and 2-inch service line pipe shall be Municipex as manufactured by REHAU rated for 200 PSI.

#### **Bid Item:**

Various

- All mechanical joint fittings for valves and hydrants shall be supplied with gripring pipe restraints. Gripring supplied shall be appropriate for pipe specified pipe material.

#### **Bid Item:**

14132 W PRESSURE REDUCING VALVE 02 INCH 14133 W PRESSURE REDUCING VALVE 03 INCH 14135 W PRESSURE REDUCING VALVE 06 INCH

 Pressure Reducing Valves shall be installed in a suitably sized precast concrete vault, with stone base, and precast lid with aluminum access hatch. Hand well operated gate valves and pressure gauges with shutoff cock shall be installed before and after the Pressure Reducing Valve. A valved manual bypass shall be installed outside the vault.

### Boyd County 9-8400.00 Sewer Clarifications

# Section: 0013-Sewer

Bid Item:

15057 S FORCE MAIN PVC 02 INCH 15059 S FORCE MAIN PVC 04 INCH 15060 S FORCE MAIN PVC 06 INCH

- Sanitary Sewer Force Main pipe shall be ASTM D 2241 SDR 21 PVC.

#### **Bid Item:**

## **15030 S FORCE MAIN DIRECTIONAL BORE**

- Sanitary Sewer Force Main pipe shall be DR 11 HDPE Pipe.

#### **Bid Item:**

15090 S LATERAL SHORT SIDE 06 INCH 15112 S PIPE PVC 08 INCH

- Sanitary Sewer Gravity pipe shall be ASTM D 2241 SDR 35 PVC.

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# Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	<b>FP AMOUNT</b>
0010	00001		DGA BASE	121,028.00	TON		\$
0020	80000		CEMENT STABILIZED ROADBED	141,173.00	SQYD		\$
0030	00078		<b>CRUSHED AGGREGATE SIZE NO 2</b>	11,268.00	TON		\$
0040	00100		ASPHALT SEAL AGGREGATE	639.00	TON		\$
0050	00103		ASPHALT SEAL COAT	77.00	TON		\$
0060	00212		CL2 ASPH BASE 1.00D PG64-22	11,071.00	TON		\$
0070	00214		CL3 ASPH BASE 1.00D PG64-22	62,475.00	TON		\$
0800	00301		CL2 ASPH SURF 0.38D PG64-22	4,115.00	TON		\$
0090	00356		ASPHALT MATERIAL FOR TACK	116.00	TON		\$
0100	00358		ASPHALT CURING SEAL	142.00	TON		\$
0110	00388		CL3 ASPH SURF 0.38B PG64-22	12,722.00	TON		\$
0120	02069		JPC PAVEMENT-10 IN	2,348.00	SQYD		\$
0130	02081		JPC PAVEMENT-8 IN SHLD	85.00	SQYD		\$
0140	02083		JPC PAVEMENT-10 IN SHLD	700.00	SQYD		\$
0150	02084		JPC PAVEMENT-8 IN	3,564.00	SQYD		\$
0160	02542		CEMENT	3,106.00	TON		\$
0170	02602		FABRIC-GEOTEXTILE CLASS 1	32,330.00	SQYD		\$
0180	02702		SAND FOR BLOTTER	353.00	TON		\$

# Section: 0002 - ROADWAY

LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0190	00071	<b>CRUSHED AGGREGATE SIZE NO 57</b>	1.00	TON		\$	
0200	00078	<b>CRUSHED AGGREGATE SIZE NO 2</b>	90.00	TON		\$	
0210	00440	ENTRANCE PIPE-15 IN	288.00	LF		\$	
0220	00441	ENTRANCE PIPE-18 IN	467.00	LF		\$	
0230	00443	ENTRANCE PIPE-24 IN	213.00	LF		\$	
0240	00445	ENTRANCE PIPE-30 IN	49.00	LF		\$	
0250	00462	CULVERT PIPE-18 IN	621.00	LF		\$	
0260	00464	CULVERT PIPE-24 IN	1,788.00	LF		\$	
0270	00466	CULVERT PIPE-30 IN	72.00	LF		\$	
0280	00468	CULVERT PIPE-36 IN	139.00	LF		\$	
0290	00469	CULVERT PIPE-42 IN	209.00	LF		\$	
0300	00470	CULVERT PIPE-48 IN	585.00	LF		\$	
0310	00471	CULVERT PIPE-54 IN	237.00	LF		\$	
0320	00521	STORM SEWER PIPE-15 IN	152.00	LF		\$	
0330	00522	STORM SEWER PIPE-18 IN	648.00	LF		\$	
0340	00526	STORM SEWER PIPE-30 IN	188.00	LF		\$	
0350	00528	STORM SEWER PIPE-36 IN	56.00	LF		\$	
0360	01000	PERFORATED PIPE-4 IN	30.00	LF		\$	
0370	01002	PERFORATED PIPE-8 IN	30.00	LF		\$	
0380	01204	<b>PIPE CULVERT HEADWALL-18 IN</b>	16.00	EACH		\$	
0390	01208	<b>PIPE CULVERT HEADWALL-24 IN</b>	10.00	EACH		\$	
0400	01210	PIPE CULVERT HEADWALL-30 IN	4.00	EACH		\$	
0410	01212	PIPE CULVERT HEADWALL-36 IN	5.00	EACH		\$	
0420	01214	<b>PIPE CULVERT HEADWALL-42 IN</b>	4.00	EACH		\$	

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LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0430	01216	PIPE CULVERT HEADWALL-48 IN	-	EACH	-	\$	
)440	01219	PIPE CULVERT HEADWALL-54 IN EQUIV		EACH		\$	
0450	01310	REMOVE PIPE	1,935.00	LF		\$	
0460	01433	SLOPED BOX OUTLET TYPE 1-18 IN		EACH		÷ \$	
0470	01434	SLOPED BOX OUTLET TYPE 1-24 IN		EACH		÷ \$	
0480	01450	S & F BOX INLET-OUTLET-18 IN		EACH		\$	
0490	01451	S & F BOX INLET-OUTLET-24 IN		EACH		\$	
0500	01456	CURB BOX INLET TYPE A		EACH		\$	
0510	01480	CURB BOX INLET TYPE B		EACH		\$	
)520	01490	DROP BOX INLET TYPE 1		EACH		\$	
)530	01511	DROP BOX INLET TYPE 5D		EACH		\$	
0540	01517	DROP BOX INLET TYPE 5F		EACH		\$	
)550	01538	DROP BOX INLET TYPE 7		EACH		Ψ \$	
)560	01544	DROP BOX INLET TYPE 11		EACH		\$	
)570	01691	FLUME INLET TYPE 2		EACH		Ψ \$	
)570 )580	01761	MANHOLE TYPE B		EACH		φ \$	
)590	01767	MANHOLE TYPE C		EACH		φ \$	
)600	01786	FILL AND CAP MANHOLE		EACH		φ \$	
)610	01788	STANDARD CURB AND GUTTER	2,226.00	LF		ၞ \$	
)620	01875	STANDARD CORB AND GOTTER STANDARD HEADER CURB	2,228.00	LF		φ \$	
<b>JJZU</b>	010/0	DELINEATOR FOR GUARDRAIL MONO	275.00	Lſ		Ψ	
630	01982	DIRECTIONAL WHITE	316.00	EACH		\$	
640	01984	<b>DELINEATOR FOR BARRIER - WHITE</b>	50.00	EACH		\$	
)650	02010	ADJUST MEDIAN BOX	1.00	EACH		\$	
0660	02014	BARRICADE-TYPE III	60.00	EACH		\$	
)670	02091	REMOVE PAVEMENT	6,179.00			\$	
0680	02157	PAVED DITCH TYPE 1	2,986.00			\$	
)690	02159	ТЕМР ДІТСН	11,140.00	LF		\$	
)700	02160	CLEAN TEMP DITCH	5,570.00	LF		\$	
0710	02200	ROADWAY EXCAVATION	739,299.00			\$	
0720	02203	STRUCTURE EXCAV-UNCLASSIFIED		CUYD		\$	
		GRANULAR EMBANKMENT				•	
)725	02223	(ADDED 12-7-2021)	2,451.00	CUYD		\$	
)730	02242	WATER	901.00	MGAL		\$	
)740	02259	FENCE-TEMP	550.00	LF		\$	
)750	02273	FENCE-4 FT CHAIN LINK	550.00	LF		\$	
760	02360	<b>GUARDRAIL TERMINAL SECTION NO 1</b>	23.00	EACH		\$	
)770	02367	<b>GUARDRAIL END TREATMENT TYPE 1</b>	9.00	EACH		\$	
0780	02371	<b>GUARDRAIL END TREATMENT TYPE 7</b>	3.00	EACH		\$	
0790	02381	REMOVE GUARDRAIL	12,756.00	LF		\$	
0080	02391	<b>GUARDRAIL END TREATMENT TYPE 4A</b>	22.00	EACH		\$	
810	02397	TEMP GUARDRAIL	5,913.00	LF		\$	
820	02404	SEPTIC TANK TREATMENT		EACH		\$	
830	02429	<b>RIGHT-OF-WAY MONUMENT TYPE 1</b>		EACH		\$	
840	02430	<b>RIGHT-OF-WAY MONUMENT TYPE 1A</b>		EACH		\$	
850	02432	WITNESS POST		EACH		\$	
860	02479	CAP MANHOLE		SQYD		\$	
870	02483	CHANNEL LINING CLASS II	5,114.00	TON		\$	
880	02484	CHANNEL LINING CLASS III	4,808.00	TON		\$	
0890	02542	CEMENT	1.00	TON		÷ \$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
			CLEARING AND GRUBBING					
0900	02545		113 ACRES	1.00			\$ \$	
0910	02555		CONCRETE-CLASS B		CUYD		\$	
0920	02562		TEMPORARY SIGNS	1,036.00			\$	
0930	02585		EDGE KEY	668.00			\$	
0940	02602		FABRIC-GEOTEXTILE CLASS 1	2,495.00			\$	
0950	02603		FABRIC-GEOTEXTILE CLASS 2	4,790.00			\$	
0960	02607		FABRIC-GEOTEXTILE CLASS 2 FOR PIPE	20,643.00		\$2.00	\$	\$41,286.00
0970	02625		REMOVE HEADWALL		EACH		\$	
0980	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0990	02651		DIVERSIONS (BY-PASS DETOURS) #1- STA. 554+76 TO STA. 586+68	1.00	LS		\$	
1000	02651		DIVERSIONS (BY-PASS DETOURS) #2- STA. 630+06 TO STA. 635+87	1.00	LS		\$	
1010	02651		DIVERSIONS (BY-PASS DETOURS) #3- STA. 100+12 TO STA. 111+00	1.00	LS		\$	
			CROSSOVER				*	
1020	02655		#1	1.00	LS		\$	
			CROSSOVER					
1030	02655		#2	1.00	LS		\$	
1040	02655		CROSSOVER #3	1.00	LS		\$	
1040	02055		#3 CROSSOVER	1.00	LS		φ	
1050	02655		#4	1.00	LS		\$	
1060	02671		PORTABLE CHANGEABLE MESSAGE SIGN	4.00	EACH		\$	
1070	02676		MOBILIZATION FOR MILL & TEXT	1.00			\$	
1080	02677		ASPHALT PAVE MILLING & TEXTURING	150.00	-		\$	
1090	02679		POROUS UNDERDRAIN	19,483.00			\$	
1100	02690		SAFELOADING		CUYD		\$	
1120	02696		SHOULDER RUMBLE STRIPS	44,560.00	LF		\$	
1130	02701		TEMP SILT FENCE	11,140.00			\$	
1140	02703		SILT TRAP TYPE A	102.00	EACH		\$	
1150	02704		SILT TRAP TYPE B	102.00	EACH		\$	
1160	02705		SILT TRAP TYPE C	102.00	EACH		\$	
1170	02706		CLEAN SILT TRAP TYPE A		EACH		\$	
1180	02707		CLEAN SILT TRAP TYPE B		EACH		\$	
1190	02708		CLEAN SILT TRAP TYPE C		EACH		\$	
1200	02711		SEDIMENTATION BASIN		CUYD		\$	
1210	02712		CLEAN SEDIMENTATION BASIN		CUYD		\$	
1220	02726		STAKING	1.00	LS		\$	
1230	02731		REMOVE STRUCTURE STA. 572+40	1.00	LS		\$	
			REMOVE STRUCTURE				•	
1240	02731		STA. 615+95	1.00	LS		\$	
1250	02731		REMOVE STRUCTURE STA. 704+20	1.00	LS		\$	
1260	02731		REMOVE STRUCTURE STA. 561+70	1.00	LS		\$	
			REMOVE STRUCTURE					
1270	02731		STA. 643+00	1.00	LS		\$	
1280	02775		ARROW PANEL	4.00	EACH		\$	
1290	03171		CONCRETE BARRIER WALL TYPE 9T	2,480.00	LF		\$	

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LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1291	03340	STEEL PIPE-2 1/2 IN (ADDED 12-7-2021)	42.00	LF		\$	
1201	00040	STEEL PIPE-4 IN				Ψ	
1292	03343	(ADDED 12-7-2021)	42.00	LF		\$	
1300	05950	EROSION CONTROL BLANKET	31,510.00	SQYD		\$	
1310	05952	TEMP MULCH	364,610.00	SQYD		\$	
1320	05953	TEMP SEEDING AND PROTECTION	273,460.00	SQYD		\$	
1330	05963	INITIAL FERTILIZER	9.00	TON		\$	
1340	05964	MAINTENANCE FERTILIZER	15.00	TON		\$	
1350	05985	SEEDING AND PROTECTION	377,520.00	SQYD		\$	
1360	05992	AGRICULTURAL LIMESTONE	234.00	TON		\$	
1370	06401	FLEXIBLE DELINEATOR POST-M/W	375.00	EACH		\$	
1380	06404	FLEXIBLE DELINEATOR POST-M/Y	17.00	EACH		\$	
1390	06510	PAVE STRIPING-TEMP PAINT-4 IN	442,616.00	LF		\$	
1400	06542	PAVE STRIPING-THERMO-6 IN W	56,026.00	LF		\$	
1410	06543	PAVE STRIPING-THERMO-6 IN Y	61,918.00	LF		\$	
1420	06544	PAVE STRIPING-THERMO-8 IN W	896.00	LF		\$	
1430	06568	PAVE MARKING-THERMO STOP BAR-24IN	635.00	LF		\$	
1440	06569	PAVE MARKING-THERMO CROSS-HATCH	1,206.00	SQFT		\$	
1450	06574	PAVE MARKING-THERMO CURV ARROW	39.00	EACH		\$	
1460	06576	PAVE MARKING-THERMO ONLY	2.00	EACH		\$	
1470	06600	<b>REMOVE PAVEMENT MARKER TYPE V</b>	17.00	EACH		\$	
1480	06610	INLAID PAVEMENT MARKER-MW	194.00	EACH		\$	
1490	06612	INLAID PAVEMENT MARKER-BY	603.00	EACH		\$	
1500	06613	INLAID PAVEMENT MARKER-B W/R	52.00	EACH		\$	
1510	08100	CONCRETE-CLASS A	141.00	CUYD		\$	
1520	08150	STEEL REINFORCEMENT	436.00	LB		\$	
1530	08903	<b>CRASH CUSHION TY VI CLASS BT TL3</b>	2.00	EACH		\$	
1540	10020NS	FUEL ADJUSTMENT	365,553.00	DOLL	\$1.00	\$	\$365,553.00
1550	10030NS	ASPHALT ADJUSTMENT	217,745.00	DOLL	\$1.00	\$	\$217,745.00
1560	20191ED	OBJECT MARKER TY 3	31.00	EACH		\$	
1570	20411ED	LAW ENFORCEMENT OFFICER	1,000.00	HOUR		\$	
1580	20465EC	CLEAN CULVERT	1.00	LS		\$	
1590	20597EC	DITCH EXCAVATION	359.00	CUYD		\$	
1600	20667ED	PNEUMATIC BACKSTOWING	120.00	TON		\$	
1610	21802EN	G/R STEEL W BEAM-S FACE (7 FT POST)	16,625.00	LF		\$	
1620	22581EN	ENTRANCE PIPE-36 IN	55.00	LF		\$	
1630	22664EN	WATER BLASTING EXISTING STRIPE	331,962.00	LF		\$	
1640	22883EN	CONCRETE WEDGE CURB	290.00	LF		\$	
1650	23124EN	BORE AND JACK PIPE-48 IN	150.00	LF		\$	
1660	24540	R/W MONUMENT TYPE 3	29.00	EACH		\$	
1670	24561EN	ENTRANCE PIPE-42 IN	82.00	FT		\$	
1680	24631EC	BARCODE SIGN INVENTORY	5.00	EACH		\$	
1690	24663ED	WITNESS R/W MONUMENT TYPE 4	2.00	EACH		\$	
		PAVE MARKING-THERMO DOTTED LANE					
1700	24683ED	EXTEN	853.00	LF		\$	
1710	24805ED	OBJECT MARKER TYPE 4		EACH		\$	
1720	24814EC	PIPELINE INSPECTION	4,299.00	LF		\$	
1730	25078ED	THRIE BEAM GUARDRAIL TRANSITION TL-3		EACH		\$	
1740	25118EC	REMOVE AND REPLACE BRICK SIGN	3.00	EACH		\$	

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# Section: 0003 - BRIDGE-(US 60 OVER WILLIAMSC)

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1750	02231		STRUCTURE GRANULAR BACKFILL	271.00	CUYD		\$	
1760	02692		SETTLEMENT PLATFORM	1.00	EACH		\$	
1770	03299		ARMORED EDGE FOR CONCRETE	116.00	LF		\$	
1780	08003		FOUNDATION PREPARATION	1.00	LS		\$	
1790	08019		CYCLOPEAN STONE RIP RAP	317.00	TON		\$	
1800	08020		CRUSHED AGGREGATE SLOPE PROT	82.00	TON		\$	
1810	08033		TEST PILES	136.00	LF		\$	
1820	08039		PRE-DRILLING FOR PILES	220.00	LF		\$	
1830	08051		PILES-STEEL HP14X89	1,909.00	LF		\$	
1840	08095		PILE POINTS-14 IN	84.00	EACH		\$	
1850	08100		CONCRETE-CLASS A	313.30	CUYD		\$	
1860	08104		CONCRETE-CLASS AA	323.30	CUYD		\$	
1870	08150		STEEL REINFORCEMENT	49,076.00	LB		\$	
1880	08151		STEEL REINFORCEMENT-EPOXY COATED	95,093.00	LB		\$	
1890	08633		PRECAST PC I BEAM TYPE 3	1,049.00	LF		\$	
1900	23378EC		CONCRETE SEALING	19,662.00	SQFT		\$	
1910	25028ED		RAIL SYSTEM SINGLE SLOPE - 40 IN	358.00	LF		\$	

# Section: 0004 - BRIDGE-(US 60 OVER LITTLE SANDY)

LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1920	02231	STRUCTURE GRANULAR BACKFILL	248.00	CUYD		\$	
1930	03299	ARMORED EDGE FOR CONCRETE	110.00	LF		\$	
1940	08003	FOUNDATION PREPARATION	1.00	LS		\$	
1950	08019	CYCLOPEAN STONE RIP RAP	834.00	TON		\$	
1960	08020	CRUSHED AGGREGATE SLOPE PROT	54.00	TON		\$	
1970	08033	TEST PILES	111.00	LF		\$	
1980	08039	PRE-DRILLING FOR PILES	270.00	LF		\$	
1990	08051	PILES-STEEL HP14X89	1,172.00	LF		\$	
2000	08095	PILE POINTS-14 IN	84.00	EACH		\$	
2010	08100	CONCRETE-CLASS A	300.80	CUYD		\$	
2020	08104	CONCRETE-CLASS AA	324.10	CUYD		\$	
2030	08150	STEEL REINFORCEMENT	46,925.00	LB		\$	
2040	08151	STEEL REINFORCEMENT-EPOXY COATED	100,766.00	LB		\$	
2050	08633	PRECAST PC I BEAM TYPE 3	1,079.00	LF		\$	
2060	23378EC	CONCRETE SEALING	19,838.00	SQFT		\$	
2070	25028ED	<b>RAIL SYSTEM SINGLE SLOPE - 40 IN</b>	368.00	LF		\$	

# Section: 0005 - BRIDGE-PRINCESS DR OVER WILLIAMS)

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
2080	02231		STRUCTURE GRANULAR BACKFILL	345.00	CUYD		\$	
2090	03299		ARMORED EDGE FOR CONCRETE	64.00	LF		\$	
2100	08003		FOUNDATION PREPARATION	1.00	LS		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
2110	08019		CYCLOPEAN STONE RIP RAP	235.00	TON		\$	
2120	08033		TEST PILES	95.00	LF		\$	
2130	08039		PRE-DRILLING FOR PILES	48.00	LF		\$	
2140	08051		PILES-STEEL HP14X89	764.00	LF		\$	
2150	08095		PILE POINTS-14 IN	20.00	EACH		\$	
2160	08100		CONCRETE-CLASS A	125.10	CUYD		\$	
2170	08104		CONCRETE-CLASS AA	125.30	CUYD		\$	
2180	08150		STEEL REINFORCEMENT	5,918.00	LB		\$	
2190	08151		STEEL REINFORCEMENT-EPOXY COATED	29,708.00	LB		\$	
2200	08633		PRECAST PC I BEAM TYPE 3	304.00	LF		\$	
2210	23378EC		CONCRETE SEALING	6,330.00	SQFT		\$	
2220	25028ED		RAIL SYSTEM SINGLE SLOPE - 40 IN	156.00	LF		\$	

# Section: 0006 - BRIDGE- (US 60 OVER CSX RR)

LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
2230	02231	STRUCTURE GRANULAR BACKFILL	349.00	CUYD		\$	
2240	02692	SETTLEMENT PLATFORM	1.00	EACH		\$	
2250	03299	ARMORED EDGE FOR CONCRETE	119.00	LF		\$	
2260	08002	STRUCTURE EXCAV-SOLID ROCK	199.00	CUYD		\$	
2270	08003	FOUNDATION PREPARATION	1.00	LS		\$	
2280	08020	CRUSHED AGGREGATE SLOPE PROT	419.00	TON		\$	
2290	08033	TEST PILES	139.00	LF		\$	
2300	08039	PRE-DRILLING FOR PILES	1,883.00	LF		\$	
2310	08051	PILES-STEEL HP14X89	2,581.00	LF		\$	
2320	08095	PILE POINTS-14 IN	102.00	EACH		\$	
2330	08100	CONCRETE-CLASS A	565.50	CUYD		\$	
2340	08104	CONCRETE-CLASS AA	802.70	CUYD		\$	
2350	08150	STEEL REINFORCEMENT	100,531.00	LB		\$	
2360	08151	STEEL REINFORCEMENT-EPOXY COATED	220,755.00	LB		\$	
2370	08635	PRECAST PC I BEAM TYPE 6	2,413.90	LF		\$	
2380	23378EC	CONCRETE SEALING	44,114.00	SQFT		\$	
2390	23964EC	PROTECTIVE FENCE	788.00	LF		\$	
2400	25028ED	<b>RAIL SYSTEM SINGLE SLOPE - 40 IN</b>	816.00	LF		\$	

# Section: 0007 - BRIDGE- CULVERT STA. 537+63.75

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
2410	02403		REMOVE CONCRETE MASONRY	19.00	CUYD		\$	
2420	08003		FOUNDATION PREPARATION	1.00	LS		\$	
2430	08100		CONCRETE-CLASS A	41.70	CUYD		\$	
2440	08150		STEEL REINFORCEMENT	3,664.00	LB		\$	

# Section: 0008 - BRIDGE-CULVERT STA.561+70.00

LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	UNIT PRIC FP AMOUN	Т
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# **PROPOSAL BID ITEMS**

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
2450	02483		CHANNEL LINING CLASS II	11.00	TON		\$	
2460	08003		FOUNDATION PREPARATION	1.00	LS		\$	
2470	08100		CONCRETE-CLASS A	80.60	CUYD		\$	
2480	08150		STEEL REINFORCEMENT	7,010.00	LB		\$	

# Section: 0009 - BRIDGE- CULVERT STA. 588+71

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
2490	02483		CHANNEL LINING CLASS II	27.00	TON		\$	
2500	08003		FOUNDATION PREPARATION	1.00	LS		\$	
2510	08100		CONCRETE-CLASS A	70.80	CUYD		\$	
2520	08150		STEEL REINFORCEMENT	6,483.00	LB		\$	

# Section: 0010 - BRIDGE- CULVERT STA.596+27

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
2530	02403		REMOVE CONCRETE MASONRY	28.00	CUYD		\$	
2540	02483		CHANNEL LINING CLASS II	32.00	TON		\$	
2550	08003		FOUNDATION PREPARATION	1.00	LS		\$	
2560	08100		CONCRETE-CLASS A	65.00	CUYD		\$	
2570	08150		STEEL REINFORCEMENT	5,426.00	LB		\$	

# Section: 0011 - BRIDGE- CULVERT STA. 631+86

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
2580	02403		REMOVE CONCRETE MASONRY	8.0	CUYD		\$	
2590	02483		CHANNEL LINING CLASS II	16.00	) TON		\$	
2600	08003		FOUNDATION PREPARATION	1.00	) LS		\$	
2610	08100		CONCRETE-CLASS A	44.00	CUYD		\$	
2620	08150		STEEL REINFORCEMENT	3,239.0	) LB		\$	

# Section: 0012 - BRIDGE- CULVERT STA. 48+78

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
2630	02483		CHANNEL LINING CLASS II	21.00	TON		\$	
2640	08003		FOUNDATION PREPARATION	1.00	LS		\$	
2650	08100		CONCRETE-CLASS A	126.20	CUYD		\$	
2660	08150		STEEL REINFORCEMENT	13,055.00	LB		\$	

# Section: 0013 - SEWER

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC FP	AMOUNT
2670	15000		S BYPASS PUMPING	2.00	EACH	\$	
2680	15011		S DIRECTIONAL BORE	962.00	LF	\$	

# **PROPOSAL BID ITEMS**

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LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
2690	15014	S ENCASEMENT STEEL BORED RANGE 1	84.00	LF		\$	
2700	15016	S ENCASEMENT STEEL BORED RANGE 3	660.00	LF		\$	
2710	15017	S ENCASEMENT STEEL BORED RANGE 4	285.00	LF		\$	
2720	15023	S ENCASEMENT STEEL OPEN CUT RANGE 4	328.00	LF		\$	
2730	15029	S FORCE MAIN AIR RLS/VAC VLV SPCL	3.00	EACH		\$	
2740	15030	S FORCE MAIN DIRECTIONAL BORE	1,516.00	LF		\$	
2750	15057	S FORCE MAIN PVC 02 INCH	174.00	LF		\$	
2760	15059	S FORCE MAIN PVC 04 INCH	893.00	LF		\$	
2770	15060	S FORCE MAIN PVC 06 INCH	4,222.00	LF		\$	
2780	15074	S FORCE MAIN TIE-IN 06 INCH	6.00	EACH		\$	
2790	15084	S FORCE MAIN VALVE GATE	2.00	EACH		\$	
2800	15090	S LATERAL SHORT SIDE 06 INCH	40.00	EACH		\$	
2810	15092	S MANHOLE	14.00	EACH		\$	
2820	15093	S MANHOLE ABANDON/REMOVE	18.00	EACH		\$	
2830	15094	S MANHOLE ADJUST TO GRADE	2.00	EACH		\$	
2840	15096	S MANHOLE CASTING WATERTIGHT	1.00	EACH		\$	
2850	15101	S MANHOLE WITH DROP	6.00	EACH		\$	
2860	15112	S PIPE PVC 08 INCH	2,033.00	LF		\$	
2870	15119	S PUMP STATION	1.00	EACH		\$	
2880	15120	S SPECIAL ITEM	1.00	EACH		\$	
2890	15122	S STRUCTURE REMOVAL	3.00	EACH		\$	
2900	15136	S LATERAL LOCATE	2.00	EACH		\$	

# Section: 0014 - SIGNALIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
2910	04820		TRENCHING AND BACKFILLING	80.00	LF		\$	
2920	04844		CABLE-NO. 14/5C	2,000.00	LF		\$	
2930	04886		MESSENGER-15400 LB	750.00	LF		\$	
2940	04932		INSTALL STEEL STRAIN POLE	4.00	EACH		\$	
2950	04953		TEMP RELOCATION OF SIGNAL HEAD	26.00	EACH		\$	
2960	20188NS835		INSTALL LED SIGNAL-3 SECTION	13.00	EACH		\$	
2970	20390NS835		INSTALL COORDINATING UNIT	1.00	EACH		\$	
2980	23157EN		TRAFFIC SIGNAL POLE BASE	20.00	CUYD		\$	
2990	24901EC		PVC CONDUIT-2 IN-SCHEDULE 80	80.00	LF		\$	
3000	24908EC		INSTALL SIGNAL CONTROLLER-TY ATC	1.00	EACH		\$	
3010	24955ED		REMOVE SIGNAL EQUIPMENT	1.00	EACH		\$	
3020	26119EC		INSTALL RADAR PRESENCE DETECTOR TYPE A	4.00	EACH		\$	
3030	26120EC		INSTALL RADAR ADVANCE DETECTOR TYPE B	2.00	EACH		\$	

# Section: 0015 - LIGHTING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
3040	04701		POLE 40 FT MTG HT	4.00	EACH		\$	
3050	04724		BRACKET 12 FT	1.00	EACH		\$	
3060	04725		BRACKET 15 FT	3.00	EACH		\$	

# **PROPOSAL BID ITEMS**

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	<b>FP AMOUNT</b>
3070	04740		POLE BASE	4.00	EACH		\$
3080	04750		TRANSFORMER BASE	4.00	EACH		\$
3090	04761		LIGHTING CONTROL EQUIPMENT	1.00	EACH		\$
3100	04780		FUSED CONNECTOR KIT	8.00	EACH		\$
3110	04795		CONDUIT-2 IN	500.00	LF		\$
3120	04820		TRENCHING AND BACKFILLING	200.00	LF		\$
3130	04832		WIRE-NO. 12	850.00	LF		\$
3140	20391NS835		ELECTRICAL JUNCTION BOX TYPE A	6.00	EACH		\$
3150	21543EN		BORE AND JACK CONDUIT	500.00	LF		\$
3160	23778EC		WIRE-NO. 10	2,500.00	LF		\$
3170	24589ED		LED LUMINAIRE	4.00	EACH		\$
3180	24900EC		PVC CONDUIT-1 1/4 IN-SCHEDULE 80	200.00	LF		\$

# Section: 0016 - WATERLINE

LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP AMOUNT
3190	14000	W AIR RELEASE VALVE 1 INCH	6.00	EACH		\$
3200	14004	W DIRECTIONAL BORE	2,954.00	LF		\$
3210	14006	W ENCASEMENT STEEL BORED RANGE 1	388.00	LF		\$
3220	14008	W ENCASEMENT STEEL BORED RANGE 3	1,005.00	LF		\$
3230	14009	W ENCASEMENT STEEL BORED RANGE 4	297.00	LF		\$
3240	14010	W ENCASEMENT STEEL BORED RANGE 5	1,226.00	LF		\$
3250	14012	W ENCASEMENT STEEL OPEN CUT RANGE 1	188.00	LF		\$
3260	14014	W ENCASEMENT STEEL OPEN CUT RANGE 3	78.00	LF		\$
3270	14016	W ENCASEMENT STEEL OPEN CUT RANGE 5	564.00	LF		\$
3280	14019	W FIRE HYDRANT ASSEMBLY	13.00	EACH		\$
3290	14021	W FIRE HYDRANT REMOVE	8.00	EACH		\$
3300	14022	W FLUSH HYDRANT ASSEMBLY	3.00	EACH		\$
3310	14028	W METER 3/4 INCH	2.00	EACH		\$
3320	14030	W METER RELOCATE	17.00	EACH		\$
3330	14031	W METER VAULT	1.00	EACH		\$
3340	14034	W PIPE DUCTILE IRON 03 INCH	596.00	LF		\$
3350	14036	W PIPE DUCTILE IRON 06 INCH	746.00	LF		\$
3360	14039	W PIPE DUCTILE IRON 12 INCH	1,742.00	LF		\$
3370	14056	W PIPE PVC 02 INCH	1,483.00	LF		\$
3380	14057	W PIPE PVC 03 INCH	2,097.00	LF		\$
3390	14059	W PIPE PVC 06 INCH	3,274.00	LF		\$
3400	14060	W PIPE PVC 08 INCH	1,175.00	LF		\$
3410	14062	W PIPE PVC 12 INCH	25,454.00	LF		\$
3420	14080	W SERV PE/PLST LONG SIDE 3/4 IN	5.00	EACH		\$
3430	14084	W SERV PE/PLST SHORT SIDE 2 IN	4.00	EACH		\$
3440	14085	W SERV PE/PLST SHORT SIDE 3/4 IN	23.00	EACH		\$
3450	14088	W STRUCTURE REMOVAL	2.00	EACH		\$
3460	14089	W TAPPING SLEEVE AND VALVE SIZE 1	12.00	EACH		\$
3470	14090	W TAPPING SLEEVE AND VALVE SIZE 2	10.00	EACH		\$
3480	14092	W TIE-IN 03 INCH	4.00	EACH		\$
3490	14094	W TIE-IN 06 INCH	2.00	EACH		\$
3500	14095	W TIE-IN 08 INCH	1.00	EACH		\$

# **PROPOSAL BID ITEMS**

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LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	<b>FP AMOUNT</b>
3510	14096	W TIE-IN 10 INCH	1.00	EACH		\$
3520	14097	W TIE-IN 12 INCH	2.00	EACH		\$
3530	14105	W VALVE 06 INCH	6.00	EACH		\$
3540	14106	W VALVE 08 INCH	1.00	EACH		\$
3550	14108	W VALVE 12 INCH	25.00	EACH		\$
3560	14115	W VALVE CUT-IN 03 INCH	8.00	EACH		\$
3570	14117	W VALVE CUT-IN 06 INCH	7.00	EACH		\$
3580	14118	W VALVE CUT-IN 08 INCH	2.00	EACH		\$
3590	14119	W VALVE CUT-IN 10 INCH	1.00	EACH		\$
3600	14120	W VALVE CUT-IN 12 INCH	9.00	EACH		\$
3610	14126	W ENCASEMENT SPECIAL OPEN CUT 12" POLY ENCASEMENT	191.00	LF		\$
3620	14126	W ENCASEMENT SPECIAL 18 IN	44.00	LF		\$
3630	14130	W METER WITH PRV 3/4 INCH	6.00	EACH		\$
3640	14132	W PRESSURE REDUCING VALVE 02 INCH	12.00	EACH		\$
3650	14133	W PRESSURE REDUCING VALVE 03 INCH	4.00	EACH		\$
3660	14135	W PRESSURE REDUCING VALVE 06 INCH	1.00	EACH		\$
3670	14143	W PRESSURE REDUCING VALVE SPECIAL	19.00	EACH		\$
3680	14147	W SERV COPPER LONG SIDE 2 IN	1.00	EACH		\$
3690	14152	W SERV COPPER SHORT SIDE 3/4 IN	13.00	EACH		\$
3700	14156	W METER REMOVE	17.00	EACH		\$
3710	23565EC	ARTICULATED CONCRETE BLOCK SYSTEM	437.00	SQFT		\$

# Section: 0017 - TRAINEES

LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
3720	02742	TRAINEE PAYMENT REIMBURSEMENT CEMENT MASON	1,200.00	HOUR		\$	
3730	02742	TRAINEE PAYMENT REIMBURSEMENT GROUP 2, 3, 4 OPERATORS	1,400.00	HOUR		\$	

# Section: 0018 - MOBILIZATION AND/OR DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	(	UNIT	UNIT PRIC	FP	AMOUNT
3740	02568		MOBILIZATION		1.00	LS		\$	
3750	02569		DEMOBILIZATION		1.00	LS		\$	

		1	T	1	Γ	GENERAL	
ITEM NO.	ITEM	NOTES	UNIT	US 60	К Ү 180	APPROACH ROADS RAILROAD	PROJECT TOTALS
71	CRUSHED AGGREGATE SIZE NO. 57	33	TON	1			1
78	CRUSHED AGGREGATE SIZE NO. 2		TON	80		10	90
440	ENTRANCE PIPE - 15 IN		LF	110		178	288
441	ENTRANCE PIPE - 18 IN		LF	355	63	49	46
443	ENTRANCE PIPE - 24 IN		LF	136		77	213
445	ENTRANCE PIPE - 30 IN		LF	49			49
22581EN	ENTRANCE PIPE - 36 IN		LF	55			55
24561EN	ENTRANCE PIPE - 42 IN		LF	82			82
462	CULVERT PIPE - 18 IN		LF	193	189	239	62
464	CULVERT PIPE - 24 IN		LF	1473	94	221	178
466	CULVERT PIPE - 30 IN		LF			72	72
468	CULVERT PIPE - 36 IN		LF	76		63	139
469	CULVERT PIPE - 42 IN		LF	99		110	209
470	CULVERT PIPE - 48 IN	40	LF	385		50 150	585
471	CULVERT PIPE - 54 IN		LF	237			23
521	STORM SEWER PIPE - 15 IN		LF	152			152
522	STORM SEWER PIPE - 18 IN		LF	450	198		648
526	STORM SEWER PIPE - 30 IN		LF	188			188
528	STORM SEWER PIPE - 36 IN		LF	56			56
1000	PERFORATED PIPE - 4 IN	33	LF	30			30
1002	PERFORATED PIPE - 8 IN	33	LF	30			30
1204	PIPE CULVERT HEADWALL - 18 IN		EACH	11	2	3	16
1208	PIPE CULVERT HEADWALL - 24 IN		EACH	6	1	3	10
1210	PIPE CULVERT HEADWALL - 30 IN		EACH	2		2	4
1212	PIPE CULVERT HEADWALL - 36 IN		EACH	3		2	5
1214	PIPE CULVERT HEADWALL - 42 IN		EACH	2		2	4
1216	PIPE CULVERT HEADWALL - 48 IN		EACH	1			1
1219	PIPE CULVERT HEADWALL - 54 IN EQUIV		EACH	2			2
1310	REMOVE PIPE		LF	1213	361	361	193
1433	SLOPED BOX OUTLET - 18 IN		EACH			1	1
1434	SLOPED BOX OUTLET - 24 IN		EACH			1	1
1450	SLOPED AND FLARED BOX INLET-OUTLET - 18 IN		EACH			2	2
1451	SLOPED AND FLARED BOX INLET-OUTLET - 24 IN		EACH	2		2	4
1456	CURB BOX INLET TYPE A		EACH	4			4
1480	CURB BOX INLET TYPE B		EACH	6			6
1490	DROP BOX INLET TYPE 1		EACH	4			4
1511	DROP BOX INLET TYPE 5D		EACH		1		1
1517	DROP BOX INLET TYPE 5F		EACH		2		2
1538	DROP BOX INLET TYPE 7		EACH	1			1
1544	DROP BOX INLET TYPE 11		EACH		1		1
1691	FLUME INLET TYPE 2		EACH	1		1	2
1761	MANHOLE TYPE B		EACH	2			2
1767	MANHOLE TYPE C		EACH	1			1
1786	FILL AND CAP MANHOLE (= 24")	36	EACH	1			1
1810	STANDARD CURB & GUTTER		LF	1780		446	222
1875	STANDARD HEADER CURB		LF	275			27
1982	DELINEATOR FOR GUARDRAIL M/W	30	EACH	274		42	316
1984	DELINEATOR FOR BARRIER - WHITE		EACH	50			50
2010	ADJUST MEDIAN BOX		EACH		1		1
2014	BARRICADE - TYPE III		EACH	24	11	25	60
2091	REMOVE PAVEMENT		SQ YD	6179			6179
2157	PAVED DITCH TYPE 1		SQ YD	2986			298
-	TEMP DITCH		LF	11140			11140

# **GENERAL SUMMARY (1 OF 2)**

	2\					COUNTY OF	F ITEM	NO. SHEET
1 OF	۷)					BOYD	9-8400	0.00 R2
TEM NO.	ITEM	NOTES	UNIT	US 60	К Ү 180	APPROACH ROADS	RAILROAD	PROJECT TOTALS
2160	CLEAN TEMP DITCH		LF	5570				5570
2200	ROADWAY EXCAVATION	13, 32	CU YD	683134	28414	27751		739299
2203	STRUCTURE EXCAVATION - UNCLASSIFIED	6	CU YD	51	20111			51
2223	GRANULAR EMBANKMENT	42	CU YD	2451				2451
2242	WATER	12	MGAL	780	71	50		901
2259	FENCE - TEMP		LF	170		380		550
2273	FENCE-4 FT CHAIN LINK	39	LF			550		550
2360	GUARDRAIL TERMINAL SECTION NO. 1	27	EACH	16		7		23
2367	GUARDRAIL END TREATMENT TY 1	28	EACH	9				9
2371	GUARDRAIL END TREATMENT TY 7		EACH			3		3
2381	REMOVE GUARDRAIL	1	LF	11396	130	1230		12756
2391	GUARDRAIL END TREATMENT TY 4A	29	EACH	18		4		22
2397	TEMP GUARDRAIL		LF	5763		150		5913
2404	SEPTIC TANK TREATMENT	31	EACH	1				1
2429	RIGHT-OF-WAY MONUMENT TYPE 1		EACH	96		4		100
2430	RIGHT-OF-WAY MONUMENT TYPE 1A		EACH	5				5
2432	WITNESS POST		EACH	96		35		131
24540	R/W MONUMENT TYPE 3		EACH			29		29
2479	CAP MANHOLE ( <sup>≥</sup> 24")	36	SQ YD	5				5
2483	CHANNEL LINING CLASS II	2	TON	4733		381		5114
2484	CHANNEL LINING CLASS III	3	TON	2875	290	1530	113	4808
2542	CEMENT	33	TON	1				1
2545	CLEARING AND GRUBBING	4	LS	1				1
2555	CONCRETE CLASS - B	6	CU YD	51				51
2562	TEMPORARY SIGNS	9	SQ FT	537	91	408		1036
2568	MOBILIZATION		LS	1				1
2569	DEMOBILIZATION		LS	1				1
2585	EDGE KEY	5	LF	64	222	382		668
2602	FABRIC-GEOTEXTILE CLASS 1	35	SQ YD	2495				2495
2603	FABRIC-GEOTEXTILE CLASS 2	37	SQ YD	4790				4790
2607	FABRIC-GEOTEXTILE CLASS 2 FOR PIPE		SQ YD	14546	1692	4148	257	20643
2625	REMOVE HEADWALL		EACH	6				6
2650	MAINTAIN & CONTROL TRAFFIC		LS	1				1
2651	DIVERSION (BY-PASS DETOURS)	18	LS	1				1
2651	DIVERSION (BY-PASS DETOURS)	19	LS	1				1
2651	DIVERSION (BY-PASS DETOURS)	20	LS			1		1
2655	CROSSOVER	21	LS		1			1
2655	CROSSOVER	22	LS		1			1
2655	CROSSOVER	23	LS		1			1
2655	CROSSOVER	24	LS		1			1
2671	PORTABLE CHANGEABLE MESSAGE SIGN	11	EACH	2	2			4
2676	MOBILIZATION FOR MILL & TEXTURING		LS	1				1
2677	ASPHALT PAVE MILLING & TEXTURING	11	TON	100	25	25		150
2679	POROUS UNDERDRAIN		LF	18883		600		19483
2690	SAFELOADING		CU YD	253		5		258
2696	SHOULDER RUMBLE STRIPS - SAWED		LF	40600	3710	250		44560
2701	TEMP SILT FENCE		LF	11140				11140
2703	SILT TRAP TYPE A		EACH	102				102
2704	SILT TRAP TYPE B		EACH	102				102
2705	SILT TRAP TYPE C		EACH	102				102

SEE GENERAL SUMMARY FOR THE NOTES.

SHEET	R2K
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						GEN	ERAL	SUM
ITEM N	O. ITEM	NOTES	LINU	US 60	К Ү180	APPROACH ROADS	RAILROAD	PROJECT TOTALS
71	CRUSHED AGGREGATE SIZE NO. 57	33	TON	1				1
78	CRUSHED AGGREGATE SIZE NO. 2		TON	80		10		90
440	ENTRANCE PIPE - 15 IN		LF	110		178		288
441	ENTRANCE PIPE - 18 IN		LF	355	63	49		467
443	ENTRANCE PIPE - 24 IN		LF	136		77		213
445	ENTRANCE PIPE - 30 IN		LF	49				49
22581E	N ENTRANCE PIPE - 36 IN		LF	55				55
24561E	N ENTRANCE PIPE - 42 IN		LF	82				82
462	CULVERT PIPE - 18 IN		LF	193	189	239		621
464	CULVERT PIPE - 24 IN		LF	1473	94	221		1788
466	CULVERT PIPE - 30 IN		LF			72		72
468	CULVERT PIPE - 36 IN		LF	76		63		139
469	CULVERT PIPE - 42 IN		LF	99		110		209
470	CULVERT PIPE - 48 IN	40	LF	385		50	150	585
471	CULVERT PIPE - 54 IN		LF	237				237
521	STORM SEWER PIPE - 15 IN		LF	152				152
522	STORM SEWER PIPE - 18 IN		LF	450	198			648
			LF	188	130			188
526	STORM SEWER PIPE - 30 IN							
528			LF	56				56
1000	PERFORATED PIPE - 4 IN	33	LF	30				30
1002		33	LF	30				30
1204	PIPE CULVERT HEADWALL - 18 IN		EACH	11	2	3		16
1208			EACH	6	1	3		10
1210	PIPE CULVERT HEADWALL - 30 IN		EACH	2		2		4
1212	PIPE CULVERT HEADWALL - 36 IN		EACH	3		2		5
1214	PIPE CULVERT HEADWALL - 42 IN		EACH	2		2		4
1216	PIPE CULVERT HEADWALL - 48 IN		EACH	1				1
1219	PIPE CULVERT HEADWALL - 54 IN EQUIV		EACH	2				2
1310	REMOVE PIPE		LF	1213	361	361		1935
1433	SLOPED BOX OUTLET - 18 IN		EACH			1		1
1434	SLOPED BOX OUTLET - 24 IN		EACH			1		1
1450	SLOPED AND FLARED BOX INLET-OUTLET - 18 IN		EACH			2		2
1451	SLOPED AND FLARED BOX INLET-OUTLET - 24 IN		EACH	2		2		4
1456	CURB BOX INLET TYPE A		EACH	4				4
1480	CURB BOX INLET TYPE B		EACH	6				6
1490	DROP BOX INLET TYPE 1		EACH	4				4
1511	DROP BOX INLET TYPE 5D		EACH		1			1
1517	DROP BOX INLET TYPE 5F		EACH		2			2
1538	DROP BOX INLET TYPE 7		EACH	1				1
1544	DROP BOX INLET TYPE 11		EACH		1			1
1691	FLUME INLET TYPE 2		EACH	1		1		2
1761	MANHOLE TYPE B		EACH	2				2
1767	MANHOLE TYPE C		EACH	1				1
1786	FILL AND CAP MANHOLE (= 24")	36	EACH	1				1
1810	STANDARD CURB & GUTTER		LF	1780		446		2226
1875	STANDARD CORD & GUTTER STANDARD HEADER CURB		LF	275		טרר		275
						10		
1982	DELINEATOR FOR GUARDRAIL M/W	30	EACH	274		42		316
1984	DELINEATOR FOR BARRIER - WHITE		EACH	50				50
2010			EACH					1
2014	BARRICADE - TYPE III		EACH	24	11	25		60
2091	REMOVE PAVEMENT		SQ YD	6179				6179
2157	PAVED DITCH TYPE 1		SQ YD	2986				2986
2159	TEMP DITCH		LF	11140				11140

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(1 OF	2)							S
	<b>~</b> ]					BOYD	9-8400.00	
							REVISED	
		E		60	80	APPROACH ROADS	RAILROAD	TOTALS
ITEM NO.	ITEM	NOTE	LINU	US U	К Ү 180	ROA	AILF	TOT
						AF		. –
2160	CLEAN TEMP DITCH		LF	5570			55	570
2200	ROADWAY EXCAVATION	13, 32	CU YD	683134	28414	27751	739	9299
2203	STRUCTURE EXCAVATION - UNCLASSIFIED	6	CU YD	51				51
2223	GRANULAR EMBANKMENT	42	CU YD	2451			2	451
2242		12	MGAL	780	71	50		101
2259	FENCE - TEMP		LF	170		380	5	50
2273	FENCE-4 FT CHAIN LINK	39	LF			550	5	50
2360	GUARDRAIL TERMINAL SECTION NO. 1	27	EACH	16		7		23
2367	GUARDRAIL END TREATMENT TY 1	28	ЕАСН	9				9
2371	GUARDRAIL END TREATMENT TY 7		ЕАСН			3		3
2381	REMOVE GUARDRAIL	1	LF	11396	130	1230	12	756
2391	GUARDRAIL END TREATMENT TY 4A	29	EACH	18		4		22
2397	TEMP GUARDRAIL		LACH	5763		150		 913
2391	SEPTIC TANK TREATMENT	31	EACH	1				ر ر 
	RIGHT-OF-WAY MONUMENT TYPE 1			96		4		00
2429			EACH			4		
2430	RIGHT-OF-WAY MONUMENT TYPE 1A		EACH	5		75		5
2432	WITNESS POST		EACH	96		35		31
24540	R/W MONUMENT TYPE 3		EACH			29		29
2479	CAP MANHOLE ( <sup>≥</sup> 24")	36	SQ YD	5				5
2483	CHANNEL LINING CLASS II	2	TON	4733		381	5	114
2484	CHANNEL LINING CLASS III	3	TON	2875	290	1530	113 48	308
2542	CEMENT	33	TON	1				1
2545	CLEARING AND GRUBBING	4	LS	1				1
2555	CONCRETE CLASS - B	6	CU YD	51				51
2562	TEMPORARY SIGNS	9	SQ FT	537	91	408	10	)36
2568	MOBILIZATION		LS	1				1
2569	DEMOBILIZATION		LS	1				1
2585	EDGE KEY	5	LF	64	222	382	6	68
2602	FABRIC-GEOTEXTILE CLASS 1	35	SQ YD	2495			24	495
2603	FABRIC-GEOTEXTILE CLASS 2	37	SQ YD	4790			4	790
2607	FABRIC-GEOTEXTILE CLASS 2 FOR PIPE		SQ YD	14546	1692	4148	257 20	643
2625	REMOVE HEADWALL		EACH	6				6
2650	MAINTAIN & CONTROL TRAFFIC		LS	1				1
2651	DIVERSION (BY-PASS DETOURS)	18	LS	1				1
2651	DIVERSION (BY-PASS DETOURS)	19	LS	1				1
2651	DIVERSION (BY-PASS DETOURS)	20	LS			1		1
2655	CROSSOVER	21	LS		1			1
2655	CROSSOVER	22	LS		1			1
2655	CROSSOVER	23	LS		1			
2655	CROSSOVER	23	LS		1			· 1
2655	PORTABLE CHANGEABLE MESSAGE SIGN		EACH	2	2			4
		11		<u>ک</u>	۷			
2676	MOBILIZATION FOR MILL & TEXTURING		LS					
2677	ASPHALT PAVE MILLING & TEXTURING	11	TON	100	25	25		50
2679	POROUS UNDERDRAIN		LF	18883		600		483
	TEMP OF THE FENCE	m			N SKIQU			
2701	TEMP SILT FENCE		LF	11140				140
2703	SILT TRAP TYPE A		EACH	102				02
2704	SILT TRAP TYPE B		EACH	102				02
2705	SILT TRAP TYPE C		EACH	102			1	02

SEE GENERAL SUMMARY SHEET R2K FOR THE NOTES.

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ITEM NO.	ITEM	NOTES	UNIT	US 60	К Ү 180	APPROACH ROADS	RAILROAD	
2706	CLEAN SILT TRAP A		EACH	102				
2707	CLEAN SILT TRAP B		EACH	102				
2708	CLEAN SILT TRAP C		EACH	102				
2711	SEDIMENTATION BASIN		CU YD	562				
2712	CLEAN SEDIMENTATION BASIN		CU YD	562				
2726	STAKING		LS	1				
2731	REMOVE STRUCTURE - STA. 561+70	16	LS	1				
2731	REMOVE STRUCTURE - STA. 572+40	16	LS	1				
2371	REMOVE STRUCTURE - STA. 615+95	16	LS	1				
2371	REMOVE STRUCTURE - STA. 643+00	16	LS	1				
2731	REMOVE STRUCTURE - STA. 704+20	16	LS	1				
2775	ARROW PANEL	11	EACH	2	2			
3171	CONCRETE BARRIER WALL TYPE 9T		LF	2480				2
3340	STEEL PIPE - 2 1/2 IN	41	LF	42				
3343	STEEL PIPE - 4 IN	41	LF	42				
5950	EROSION CONTROL BLANKET	7	SQ YD	28844	1374	1292		2
5952	TEMP MULCH		SQ YD	364610				36
5953	TEMP SEED AND PROTECT		SQ YD	273460				27
5963	INITIAL FERTILIZER		TON	9				
5964	MAINTENACE FERTILZER		TON	15				
5985	SEEDING AND PROTECTION		SQ YD	377520				37
5992	AGRICULTURAL LIMESTONE		TON	234				
6401	FLEXIBLE DELINEATOR POST - M/W		EACH	296	63	16		
6404	FLEXIBLE DELINEATOR POST - M/Y		EACH	70000	20000	17		
6510 6542	PAVE STRIPING - TEMP PAINT - 4 IN PAVE STRIPING - THERMO - 6 IN - W	14	LF LF	326800 40555	29680	86136		44
6543	PAVE STRIFING - THERMO - 6 IN - W			40555	5337 2578	9621		6
6544	PAVE STRIPING - THERMO - 8 IN - W			203	446	247		
6568	PAVE MARKING - THERMO STOP BAR - 24 IN			130	91	414		
6569	PAVE MARKING - THERMO CROSS-HATCH		SQ FT	425		781		1
24683ED	PAVE MARKING - THERMO DOTTED LANE EXTEN		LF	599	197	57		
6574	PAVE MARKING - THERMO CURV ARROW		EACH	20	9	10		
6576	PAVE MARKING - THERMO ONLY		EACH	20	2	10		
6600	REMOVE PAVEMENT MARKER TYPE V		EACH	17	<u> </u>			
6610	INLAID PAVEMENT MARKER - MW		EACH	80	96	18		
6612	INLAID PAVEMENT MARKER - BY		EACH	541		62		
6613	INLAID PAVEMENT MARKER - B Y/R		EACH	52				
8100	CONCRETE-CLASS A	17	CU YD	141				
8150	STEEL REINFORCEMENT	38	LB	436				
8903	CRASH CUSHION TY VI CLASS BT TL3		EACH	2				
10020NS	FUEL ADJUSTMENT		DOLLAR	365553				36
10030NS	ASPHALT ADJUSTMENT		DOLLAR	217745				21
20191ED	OBJECT MARKER TY 3	26	EACH	26		5		
20411ED	LAW ENFORCMENT OFFICER		HOUR	1000				1
20465EC	CLEAN CULVERT	15	LS	1				
20597EC	DITCH EXCAVATION		CU YD	290		48	21	
20667ED	PNEUMATIC BACKSTOWING	33	TON	120				
21802EN	G/R STEEL W BEAM-S FACE (7 FT POST)		LF	14620.5		2005		16
22883EN	CONCRETE WEDGE CURB		LF	290				
23124EN	BORE AND JACK PIPE - 48"		LF				150	
24631EC	BARCODE SIGN INVENTORY	11	EACH	5				
_ · _ •	WITNESS R/W MONUMENT TYPE 4		EACH	-		2		
24663ED		I						

# **GENERAL SUMMARY**

2 OF 2								COUNTY OF	ITEM NO. 9-8400.00	SHEET NO
ITEM NO.		ITEM		NOTES	UNIT	NS 60	К Ү 180	APPROACH ROADS	RAILROAD	PROJECT TOTALS
25078ED	THRIE-BEAM	GUARDRAIL TRANSITION TL-3			LF	225		75		300
24814EC	PIPELINE INS	PECTION			LF	2929	513	857		4299
25118EC	REMOVE AND	REPLACE BRICK SIGN		34	EACH			3		3
22664EN	WATERBLASTI	NG EXISTING STRIPE			LF	245100	22260	64602		331962
ARDRAIL SHALL NTRAL SIGN SH VD IN FRANKFO RIFICATION SH CLUDES 283 T AINAGE SUMMA CLUDES 313 TO AINAGE SUMMA PROXIMATELY GE KEY QUANT US 60 KY 184 APPRO R GRAVITY TY CLUDES 23,200 OPE PROTECTION	BE HAULED E HOP AND RECY( ORT, KY. THEF HEET WHICH MU FONS CARRIED RY & 1148 TON ONS CARRIED O RY. 113 ACRES ITES INCLUDE: O OACH ROADS PE RETAINING O SQ YDS FOR ON AND 75 SQ	OVER FROM THE PIPE IS FOR SLOPE PROTECTION VER FROM THE PIPE 64 LF 222 LF 382 LF	, THE ON	<ol> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> </ol>	CLEAN EXIS STA: 561+7C STA: 572+40 STA: 615+95 STA: 643+00 STA: 704+20 136 CU YD RCBC HDWL DIVERSION 4 DIVERSION 4 DIVERSION 4 KY 180 - CF KY 180 - CF KY 180 - CF KY 180 - CF KY 180 - CF	O REMOVE EX O REMOVE EX FOR CONCRET AT STA. 572 # 1 - STA. 55 # 2 - STA. 6 SION - STA. ROSSOVER # ROSSOVER #	T 275'LT. S ISTING 5'X ISTING 7'X ISTING BRID (ISTING S) (ISTING S) (	221308 LIN 221308 LIN 221308 LIN 54a. 571+19 2.5' RCBC 3' RCBC GE OVER WIL OGE OVER CS OGE OVER EAS AISED MEDIA A. 586+68 5TA. 635+87 5TA. 111+00 -10 TO STA. 0+60 TO STA 0+40 TO STA	I FT LIAMS CREEK X RAILROAD ST FORK LITT NS & 5.46 C 59+00 . 54+00 . 58+80	
OR TEMPORARY SIGNING O BE PAINTED TO RESEMBLE WEATHERED GUARDRAIL				27	TOTAL INCL	UDES 2 FOR	TEMP GUAR	DRAIL ON KY	5 DIVERSION	
				28	TOTAL INCL	UDES IFOR T	TEMP GUARD	RAIL		
DIRECTED BY	THE ENGINEER	THE PLANS, TO BE USED				UDES 4 FOR				
R CONTROLLIN	G DUST CAUSEI	) BY MAINTAINING TRAFFIC	ONLY.			UDES 62 FOF	r temp guaf	RDRAIL		
COMM	ON EXC.	EARTHWORK QUANTITIES US 60 KY 180 APPR ROADS ENTRANCES DIVERSIONS	191275 CU YDS 28414 CU YDS 22607 CU YDS 1486 CU YDS 2411 CU YDS	32) 33)	ESTIMATED	FOR BACKST	OWING ONE M	UNDERDRAIN /INE TUNNEL DR. STA 9+		STA 9+91
ROCK	EXC.	US 60 KY 180 APPR ROADS	439610 CU YDS CU YDS CU YDS	(35) FOR UNDERLAYING CHANNEL LINING FOR ROADWAY SLOPE PROTECTION (36) ESTIMATED FOR FILLING ONE VERTICAL MINE SHAFT OR AIR SHAFT						
APPR	) EMBANKMENT RD EMB BENCH ) TRANSVERSE	IING	34984 CU YDS 5052 CU YDS 10537 CU YDS	3) FOR SEPERATION OF ROCK DRAINAGE BLANKET 38) FOR HDWL & SIDE TAPERED INLET AT STA. 572+30.43 39) FOR TEMPORARY FENCE ON PARCEL 69						
TOTAL	_ EXCAVATION		736376 CU YDS	(40) 150 LF OF 48" PIPE AT CSX RRa STA. 568+38 SHALL BE SMOOTH STEEL PIPE, YEILD STRENGTH 35,000 PSI						
EMBAN	NKMENT	US 60 KY 180 APPR ROADS ENTRANCES DIVERSIONS	341067 CU YDS 104 CU YDS 31205 CU YDS 2686 CU YDS 13587 CU YDS	(41)	INCLUDES 2 AND 21 LF F	ILF FOR SET OR SETTLEM	TLEMENT PL ENT PLATFO		APPRX. 20' L <sup>-</sup> DX. 20' LT. S <sup>-</sup>	Γ. STA. 617- ΓΑ. 638+75
ROCK	ROADBED	US 60 Ky 180 APPR ROADS	120251 CU YDS 18921 CU YDS 3261 CU YDS		FOR A TREAT	PAVEMENT MENT OF 2 F	THICKNESS C Feet of Roc	F 15.5 INCHE K ROADBED.	JECT WERE DE S AND SUBGR THE PAVEMEN DJUSTED TO	ADE T WAS
APPR	) EMBANKMENT RD EMB BENCH ) TRANSVERSE	IING	34984 CU YDS 5052 CU YDS 10537 CU YDS		THIS ( SECTI(	CHANGE. HOW ONS WERE NO N OVER CROS	EVER EARTHN DT REVISED	WORK QUANTI And, in this	TIES AND CRO CASE, TYPIC PAYMENT O	)SS- Cal section
E CONTRACTOR	'N FOR INFORM	HAT THE EARTHWORK FIGURES	581655 CU YDS					S. 60 W. Neral Si		

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2 OF 2)								COUNTY OF	ITEM NO. 9-8400.00	SHEET NO.	
ITEM NO.		ITEM		NOTES	UNIT	NS 60	К Ү 180	APPROACH ROADS	RAILROAD	PROJECT TOTALS	
								AF	Ř.	۵. –	
		IARDRAIL TRANSITION TL-	-3		LF	225		75		300	
	PIPELINE INSPECTION				LF	2929	513	857		4299	
					EACH LF	245100	22260	3 64602		3 331962	
= 22004EN	WATENDLASTING	EXISTING STATE				245100	22200	04002		331362	
ARDRAIL SHALL ITRAL SIGN SHO D IN FRANKFOR IFICATION SHE LUDES 283 TO AINAGE SUMMAR PROXIMATELY 11 SE KEY QUANTI US 60 KY 180 APPROA CRAVITY TYP	BE HAULED BY DP AND RECYCL RT, KY. THERE ET WHICH MUST ONS CARRIED OV Y & 1148 TONS S CARRIED OVE Y. 3 ACRES TES INCLUDE: ACH ROADS E RETAINING WA	VER FROM THE PIPE FOR SLOPE PROTECTION R FROM THE PIPE 64 L 222 L 382 L	TC, THE NSON RY _F _F	<ul> <li>(15)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> <li>(19)</li> <li>(20)</li> <li>(21)</li> <li>(22)</li> <li>(23)</li> <li>(23)</li> </ul>	CLEAN EXIS STA. 561+70 STA. 572+4 STA. 615+95 STA. 643+0 STA. 704+2 136 CU YD RCBC HDWL DIVERSION DIVERSION KY 5 DIVER KY 180 - C KY 180 - C	FOR CONCRET AT STA. 572 # 1 - STA. 55 # 2 - STA. 6 ROSSOVER # ROSSOVER # ROSSOVER #	T 275'LT. S ISTING 5'X ISTING BRID ISTING BRID ISTING BRID ISTING BRID ISTING BRID ISTING BRID ISTING BRID ISTING BRID ISTA ISTA. 50+ 2 - STA. 50 3 - STA. 50	221308 LIN 221308 LIN 221308 LIN 21308 LIN 221308 LIN 2	I FT AMS CREEK RAILROAD ST FORK LITTI NS & 5.46 CL 59+00 59+00 54+00		
LUDES 23,200 SQ YDS FOR EROSION CONTROL PE PROTECTION AND 75 SQ YDS FROM PIPE SUMMARY				24	KY 180 - C	ROSSOVER #	4 - STA. 5C	+20 TO STA	. 54+20		
USED				(25)	FOR GUARD	RAIL BARRICA	DES				
TEMPORARY SIGNING				26	TOTAL INCL	UDES 5 FOR	TEMP END 1	REATMENTS			
BE PAINTED TO RESEMBLE WEATHERED GUARDRAIL				27	TOTAL INCL	UDES 2 FOR	TEMP GUAR	RAIL ON KY	5 DIVERSION		
				28	TOTAL INCL	UDES IFOR 1	EMP GUARD	RAIL			
ATIONS ARE NOT NOTED IN THE PLANS, TO BE USED DIRECTED BY THE ENGINEER.				29	TOTAL INCL	UDES 4 FOR	TEMP GUAR	RAIL			
CONTROLLING	DUST CAUSED	BY MAINTAINING TRAFFIC	ONLY.	0		UDES 62 FOF	R TEMP GUAF	RDRAIL			
		EARTHWORK QUANTITIE	S	(31)	PARCEL 91						
COMMOI Rock e		US 60 KY 180 APPR ROADS ENTRANCES DIVERSIONS US 60	191275 CU YDS 28414 CU YDS 22607 CU YDS 1486 CU YDS 2411 CU YDS 439610 CU YDS	33 34	ESTIMATED FOR COLUMI PRINCELAND	) DRIVE	DWING ONE N PRINCELAND	1INE TUNNEL DR. STA 9+			
		KY 180 APPR ROADS	CU YDS CU YDS	36 ESTIMATED FOR FILLING ONE VERTICAL MINE SHAFT OR AIR SHAFT							
				(37) FOR SEPERATION OF ROCK DRAINAGE BLANKET							
	EMBANKMENT B RD EMB BENCHIN		34984 CU YDS 5052 CU YDS	38 FOR HDWL & SIDE TAPERED INLET AT STA. 572+30.43							
US 60	TRANSVERSE BE	ENCHING	10537 CU YDS	39 FOR TEMPORARY FENCE ON PARCEL 69							
TOTAL	EXCAVATION		736376 CU YDS								
EMBANK	MENT	US 60 KY 180 APPR ROADS ENTRANCES DIVERSIONS	341067 CU YDS 104 CU YDS 31205 CU YDS 2686 CU YDS 13587 CU YDS	(41)	INCLUDES 2 AND 21 LF F		TLEMENT PL ENT PLATFO	ATFORM AT RM AT APPR(	APPRX. 20'LT )X. 20'LT. ST	. STA. 617+ A. 638+75	
ROCK F	ROADBED	US 60 KY 180 APPR ROADS	120251 CU YDS 18921 CU YDS 3261 CU YDS		FOR A TREAT LATER	PAVEMENT MENT OF 2 F Revised. T	THICKNESS C Feet of Roc Ypical sect	F 15.5 INCHE K ROADBED. Ions were A	JECT WERE DE S AND SUBGRA THE PAVEMEN DJUSTED TO F	ADE F WAS REFLECT	
APPR F	EMBANKMENT B RD EMB BENCHIN TRANSVERSE BE	IG	34984 CU YDS 5052 CU YDS 10537 CU YDS		SECTI GOVER	ONS WERE NO	T REVISED	AND, IN THIS	TIES AND CRO CASE, TYPIC _ PAYMENT ON	AL SECTIONS	
		AT THE EARTHWORK FIGUR Ton purposes only.	581655 CU YDS RES					S. 60 W. Neral Si			

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									J 0-00.00					
10.		ITEM		NOTES	UNIT	US 60	К Ү180	APPROACH ROADS	RAILROAD	PROJECT TOTALS				
ED	THRIE-BEAM (	GUARDRAIL TRANSITION <sup>-</sup>	-L-3		LF	225		75		300				
C	PIPELINE INSI	PECTION			LF	2929	513	857		4299				
С	REMOVE AND	REPLACE BRICK SIGN		34	EACH			3		3				
EN	WATERBLASTI	NG EXISTING STRIPE			LF	245100	22260	64602		331962				
GN SH ANKFO ON SHE 283 T GUMMAF	OP AND RECYC RT, KY. THER EET WHICH MUS ONS CARRIED XY & 1148 TON	AL ALONG PROJECT LIMI BY THE CONTRACTOR TO CLE CENTER AT 1224 WIL RE IS A GUARDRAIL DELI ST BE C OVER FROM THE PIPE IS FOR SLOPE PROTECTION	KINSON VERY	(15) (16) (17)	CLEAN EXIS STA. 561+70 STA. 572+40 STA. 615+95 STA. 643+00 STA. 704+20 136 CU YD F RCBC HDWL	) REMOVE E> ) REMOVE E>	T 275'LT.S ISTING 5'X ISTING 7'X ISTING BRID ISTING BRID ISTING BRID E CAP ON R 2+30.43	221308 LIN 221308 LIN 4a. 571+19 2.5' RCBC 3' RCBC GE OVER WILL GE OVER CSX GE OVER EAS	FT .IAMS CREEK					
FELY 1	13 ACRES			0		* 2 - STA. 6								
QUANTI	TES INCLUDE:			0		SION - STA. 8								
US 60 KY 180			4 LF 2 LF	$\sim$				10 TO STA. 5	59+00					
	ACH ROADS		2 LF	0				+60 TO STA.						
TY TYPE RETAINING WALL.														
3,200 SQ YDS FOR EROSION CONTROL					(23) KY 180 - CROSSOVER # 3 - STA. 50+40 TO STA. 58+80 (24) KY 180 - CROSSOVER # 4 - STA. 50+20 TO STA. 54+20									
TÉCTION AND 75 SQ YDS FROM PIPE SUMMARY						AIL BARRICA		20 10 0111						
						UDES 5 FOR		REATMENTS						
RARY SIGNING								RAIL ON KY	5 DIVERSION					
NTED TO RESEMBLE WEATHERED GUARDRAIL						UDES 1 FOR <sup>-</sup>								
ARE NOT NOTED IN THE PLANS, TO BE USED				0		UDES 4 FOR								
D BY THE ENGINEER.						UDES 62 FOF								
OLLING	DUST CAUSE[	D BY MAINTAINING TRAFF	TIC ONLY.	(31) PARCEL 91										
соммо	N EXC.	EARTHWORK QUANTIT US 60 Ky 180 Appr Roads Entrances Diversions	IES 191275 CU YDS 28414 CU YDS 22607 CU YDS 1486 CU YDS 2411 CU YDS	(33) (34)	ESTIMATED	FOR BACKST	DWING ONE M	UNDERDRAIN MINE TUNNEL DR. STA 9+7		STA 9+91				
ROCK E	EXC.	US 60	439610 CU YDS	35	FOR UNDERL	AYING CHANN	NEL LINING F	OR ROADWAY	SLOPE PROTE	CTION				
		KY 180 APPR ROADS	CU YDS CU YDS	36	ESTIMATED	FOR FILLING	ONE VERTIC	CAL MINE SHA	FT OR AIR SH	HAF T				
115 60	EMBANKMENT		34984 CU YDS	37	FOR SEPERA	TION OF ROO	CK DRAINAGE	BLANKET						
APPR F	RD EMB BENCH	IING	5052 CU YDS	38 FOR HDWL & SIDE TAPERED INLET AT STA. 572+30.43										
US 60	TRANSVERSE	BENCHING	10537 CU YDS	39 FOR TEMPORARY FENCE ON PARCEL 69										
TOTAL	EXCAVATION		736376 CU YDS	40	150 LF OF 4 SMOOTH STE	18"PIPE AT Eel PIPE, ye	CSX RRa STA ILD STRENGT	A. 568+38 SH H 35,000 PS	ALL BE I					
EMBANI	KMENT	US 60 KY 180 APPR ROADS ENTRANCES DIVERSIONS	341067 CU YDS 104 CU YDS 31205 CU YDS 2686 CU YDS 13587 CU YDS	(41)	INCLUDES 21 AND 21 LF F	ILF FOR SET OR SETTLEM	TLEMENT PL ENT PLATFOR		APPRX. 20'LT X. 20'LT. ST	. STA. 617+45. A. 638+75				
ROCK F	ROADBED	US 60 Ky 180 APPR ROADS	120251 CU YDS 18921 CU YDS 3261 CU YDS		FOR A TREATI LATER	PAVEMENT MENT OF 2 F REVISED. T	THICKNESS O EET OF ROC (PICAL SECT	F 15.5 INCHE K ROADBED. IONS WERE A	ECT WERE DE S AND SUBGRA THE PAVEMENT DJUSTED TO F	ADE WAS REFLECT				
APPR F	EMBANKMENT RD EMB BENCH TRANSVERSE	IING	34984 CU YDS 5052 CU YDS 10537 CU YDS		SECTIO	ONS WERE NO N OVER CROS	T REVISED #	AND, IN THIS	IES AND CRO Case, typic, Payment on	AL SECTIONS				
TOTAL	EMBANKMENT		581655 CU YDS			<b>[</b>		0.00						
SHOWN NS FOR	N FOR INFORM	HAT THE EARTHWORK FI ATION PURPOSES ONLY. SWELL FACTORS ARE TH ACTOR.						S. 60 WI Neral Su (2 Of	MMARY					

EMBANKMENT	US 60 KY 180 APPR ROADS ENTRANCES DIVERSIONS
ROCK ROADBED	US 60 Ky 180 APPR ROADS
US 60 EMBANKMENT BE APPR RD EMB BENCHING	

						GEN	VERAL	SUMI
ITEM NO.	ITEM	NOTES	UNIT	US 60	К Ү 180	APPROACH ROADS	RAILROAD	PROJECT TOTALS
2706	CLEAN SILT TRAP A		EACH	102				102
2707	CLEAN SILT TRAP B		EACH	102				102
2708	CLEAN SILT TRAP C		EACH	102				102
2711	SEDIMENTATION BASIN		CU YD	562				562
2712	CLEAN SEDIMENTATION BASIN		CU YD	562				562
2726	STAKING		LS	1				1
2731	REMOVE STRUCTURE - STA. 561+70	16	LS	1				1
2731	REMOVE STRUCTURE - STA. 572+40	16	LS	1				1
2371	REMOVE STRUCTURE - STA. 615+95	16	LS	1				1
2371	REMOVE STRUCTURE - STA. 643+00	16	LS	1				1
2731	REMOVE STRUCTURE - STA. 704+20	16	LS	1				1
2775	ARROW PANEL	11	EACH	2	2			4
3171	CONCRETE BARRIER WALL TYPE 9T		LF	2480				2480
3340	STEEL PIPE - 2 1/2 IN	41	LF	42			m	42
3343	STEEL PIPE - 4 IN	41	LF	42				42
5950	EROSION CONTROL BLANKET	$\overline{\boldsymbol{\mathcal{W}}}_{\gamma}$		28844	1374	1292	h	31510
5952	TEMP MULCH		SQ YD	364610				364610
5953	TEMP SEED AND PROTECT		SQ YD	273460				273460
5963	INITIAL FERTILIZER		TON	9				9
5964	MAINTENACE FERTILZER		TON	15				15
5985	SEEDING AND PROTECTION		SQ YD	377520				377520
5992	AGRICULTURAL LIMESTONE		TON	234				234
6401	FLEXIBLE DELINEATOR POST - M/W		EACH	296	63	16		375
6404	FLEXIBLE DELINEATOR POST - M/Y		EACH	2.30	00	17		17
6510	PAVE STRIPING - TEMP PAINT - 4 IN	14	LF	326800	29680	86136		442616
6542	PAVE STRIPING - THERMO - 6 IN - W			40555	5337	10134		56026
6543	PAVE STRIPING - THERMO - 6 IN - Y			49719	2578	9621		61918
6544	PAVE STRIPING - THERMO - 8 IN - W		LF	203	446	247		896
6568	PAVE MARKING - THERMO STOP BAR - 24 IN			130	91	414		635
6569	PAVE MARKING - THERMO CROSS-HATCH		SQ FT	425		781		1206
24683ED				599	197	57		853
	PAVE MARKING - THERMO DOTTED LANE EXTEN							
6574	PAVE MARKING - THERMO CURV ARROW		EACH	20	9	10		39
6576	PAVE MARKING - THERMO ONLY		EACH	47	2			2
6600	REMOVE PAVEMENT MARKER TYPE V		EACH	17				17
6610	INLAID PAVEMENT MARKER - MW		EACH	80	96	18		194
6612	INLAID PAVEMENT MARKER - BY		EACH	541		62		603
6613	INLAID PAVEMENT MARKER - B Y/R		EACH	52				52
8100	CONCRETE-CLASS A	17	CU YD	141				141
8150	STEEL REINFORCEMENT	38	LB	436				436
8903	CRASH CUSHION TY VI CLASS BT TL3		EACH	2				2
10020NS	FUEL ADJUSTMENT		DOLLAR	365553				365553
10030NS	ASPHALT ADJUSTMENT		DOLLAR	217745				217745
20191ED	OBJECT MARKER TY 3	26	EACH	26		5		31
20411ED	LAW ENFORCMENT OFFICER		HOUR	1000				1000
20465EC	CLEAN CULVERT	15	LS	1				1
20597EC	DITCH EXCAVATION		CU YD	290		48	21	359
20667ED	PNEUMATIC BACKSTOWING	33	TON	120				120
21802EN	G/R STEEL W BEAM-S FACE (7 FT POST)		LF	14620.5		2005		16625
22883EN	CONCRETE WEDGE CURB		LF	290				290
23124EN	BORE AND JACK PIPE - 48"		LF				150	150
24631EC	BARCODE SIGN INVENTORY	11	EACH	5				5
24663ED	WITNESS R/W MONUMENT TYPE 4		EACH			2		2
24805ED	OBJECT MARKER TYPE 4	25	EACH	6				6

# **GENERAL SUMMARY**

2 OF 2)								COUNTY OF	ITEM NO.	SHEET N	
								BOYD	9-8400.00	R2K	
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ITEM NO.		ITEM		NOTES	UNIT	60	КҮ180	ROA	RAILROAD	PROJECT TOTALS	
				NC		US	¥	APPROACH ROADS	RAII	PRC TO	
2507950		GUARDRAIL TRANSITION TL-	3			225				300	
25078ED 24814EC	PIPELINE INS		5		LF LF	225 2929	513	75 857		300 4299	
25118EC		REPLACE BRICK SIGN		34	EACH		515	3		3	
22664EN		NG EXISTING STRIPE			LF	245100	22260	64602		331962	
ES:											
RDRAIL SHALL TRAL SIGN SH D IN FRANKFO IFICATION SH LUDES 283 T INAGE SUMMAN ROXIMATELY 1 E KEY QUANT US 60 KY 180 APPRO	BE HAULED B HOP AND RECYC ORT, KY. THER EET WHICH MUS TONS CARRIED RY & 1148 TON NS CARRIED ON RY. 113 ACRES ITES INCLUDE: D DACH ROADS PE RETAINING O SQ YDS FOR DN AND 75 SQ	OVER FROM THE PIPE S FOR SLOPE PROTECTION /ER FROM THE PIPE 64 L 222 L 382 L	TC, THE ISON Y .F .F	<ol> <li>(15)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> <li>(19)</li> <li>(20)</li> <li>(21)</li> <li>(22)</li> <li>(23)</li> <li>(24)</li> <li>(25)</li> <li>(26)</li> </ol>	CLEAN EXIS STA. 561+70 STA. 572+4 STA. 615+99 STA. 643+0 STA. 704+2 136 CU YD RCBC HDWL DIVERSION DIVERSION KY 5 DIVER KY 180 - C KY 180 - C KY 180 - C KY 180 - C FOR GUARDE TOTAL INCL	FOR CONCRET AT STA. 572 # 1 - STA. 55 # 2 - STA. 6 RSION - STA. ROSSOVER # ROSSOVER # ROSSOVER # ROSSOVER # RAIL BARRICA	T 275'LT. S ISTING 5'X ISTING BRID STING BRID ISTING BRID E CAP ON R 2+30.43 64+76 TO ST 630+06 TO S 100+12 TO S 100+12 TO S 100+12 TO S 1 - STA. 50 2 - STA. 50 3 - STA. 50 4 - STA. 50 DES TEMP END T	221308 LIN 221308 LIN 2214 221308 LIN 2214 221308 LIN 2214 22150 LIN 22150	FT JAMS CREEK (RAILROAD 5T FORK LITTL NS & 5.46 CU 59+00 54+00 58+80 54+20		
) BE PAINTED TO RESEMBLE WEATHERED GUARDRAIL				<ul> <li>(27) TOTAL INCLUDES 2 FOR TEMP GUARDRAIL ON KY 5 DIVERSION</li> <li>(28) TOTAL INCLUDES 1 FOR TEMP GUARDRAIL</li> </ul>							
ATIONS ARE N	NOT NOTED IN	THE PLANS, TO BE USED									
DIRECTED BY	THE ENGINEER	····_ · _ ·				UDES 4 FOR					
CONTROLLING	G DUST CAUSE	) BY MAINTAINING TRAFFIC	ONLY.	$\bigcirc$		UDES 62 FOR	IEMP GUAP	URAIL			
		EARTHWORK QUANTITIES		0	PARCEL 91						
СОММС	DN EXC.	US 60 KY 180 APPR ROADS ENTRANCES DIVERSIONS	191275 CU YDS 28414 CU YDS 22607 CU YDS 1486 CU YDS 2411 CU YDS	33	ESTIMATED	2923 CU YDS FOR BACKST( NS LT & RT ) DRIVE	DWING ONE M	INE TUNNEL		TA 9+91	
DOCK	EVO			(35)			IEL LINING F	OR ROADWAY	SLOPE PROTE	CTION	
ROCK	LAU.	US 60 KY 180	439610 CU YDS CU YDS	(36) ESTIMATED FOR FILLING ONE VERTICAL MINE SHAFT OR AIR SHAFT							
		APPR ROADS	CU YDS	(37) FOR SEPERATION OF ROCK DRAINAGE BLANKET							
	EMBANKMENT		34984 CU YDS								
	RD EMB BENCH		5052 CU YDS 10537 CU YDS	(38) FOR HDWL & SIDE TAPERED INLET AT STA. 572+30.43							
				(39) FOR TEMPORARY FENCE ON PARCEL 69 (40) 150 LF OF 48" PIPE AT CSX RRa STA. 568+38 SHALL BE							
TUTAL	EXCAVATION		736376 CU YDS	(40)	150 LF OF SMOOTH ST	48" PIPE AT ( EEL PIPE, YE	CSX RRa ST. ILD STRENGI	A. 568+38 SH TH 35.000 PS	IALL BE	$\sim$	
EMBAN	IKMENT	US 60 KY 180 APPR ROADS ENTRANCES DIVERSIONS	341067 CU YDS 104 CU YDS 31205 CU YDS 2686 CU YDS 13587 CU YDS	AND 21 LF FOR SETTLEMENT PLATFORM AT APPRX. 20 LT. STA. AND 21 LF FOR SETTLEMENT PLATFORM AT APPROX. 20' LT. STA. 638 (42) FOR DRAINAGE BLANKET (SEE GEO-TECHNICAL NOTE 33)						STA. 617 4. 638+75	
ROCK	ROADBED	US 60 Ky 180 APPR ROADS	120251 CU YDS 18921 CU YDS 3261 CU YDS	1	FOR A TREAT LATER	A PAVEMENT Tment of 2 f R revised. ty	THICKNESS O EET OF ROC PICAL SECT	F 15.5 INCHE K ROADBED. IONS WERE A	JECT WERE DEV S AND SUBGRA THE PAVEMENT DJUSTED TO R	DE WAS EFLECT	
APPR	) EMBANKMENT RD EMB BENCH ) TRANSVERSE	ING	34984 CU YDS 5052 CU YDS 10537 CU YDS		SECTI GOVER	ONS WERE NO	T REVISED /	AND, IN THIS	TIES AND CROS CASE, TYPICA PAYMENT ON	L SECTIO	
TOTAL	EMBANKMENT		581655 CU YDS			<b></b>					
	N FOR INFORM	HAT THE EARTHWORK FIGUR Ation purposes only. Swell factors are the	RES					S.60 WI NERAL SL (2 OF	JMMARY		

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2 OF 2)							COUNTY OF	ITEM NO.	SHEET NO.
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ITEM NO.	ITEM		NOTE	LINU		К 180	APPROACH ROADS	RAILROAD	PROJECT TOTALS
			2				A A H	RA	
25078ED THRIE-I	BEAM GUARDRAIL TRANSITION TL	-3		LF	225		75		300
	NE INSPECTION			LF	2929	513	857		4299
	E AND REPLACE BRICK SIGN		34	LF	245100	22260	3 64602		3 331962
TES:	JEASTING EXISTING STRIFE				243100	22200	04002		551562
MOVE ALL EXISTING GL ARDRAIL SHALL BE HAU NTRAL SIGN SHOP AND VD IN FRANKFORT, KY. RIFICATION SHEET WHI CLUDES 283 TONS CAR AINAGE SUMMARY & 114 CLUDES 313 TONS CARR AINAGE SUMMARY. PROXIMATELY 113 ACRE GE KEY QUANTITES ING US 60 KY 180 APPROACH ROA R GRAVITY TYPE RETA CLUDES 23,200 SQ YDS OPE PROTECTION AND T USED R TEMPORARY SIGNING	RRIED OVER FROM THE PIPE 48 TONS FOR SLOPE PROTECTION RIED OVER FROM THE PIPE S CLUDE: 64 222 ADS 382 INING WALL. S FOR EROSION CONTROL 75 SQ YDS FROM PIPE SUMMARY	TC, THE NSON RY LF LF	<ul> <li>(15)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> <li>(19)</li> <li>(20)</li> <li>(21)</li> <li>(22)</li> <li>(23)</li> <li>(24)</li> <li>(25)</li> <li>(26)</li> <li>(27)</li> </ul>	CLEAN EXIS STA: 561+70 STA: 572+41 STA: 615+95 STA: 643+0 STA: 704+2 136 CU YD RCBC HDWL DIVERSION DIVERSION KY 5 DIVER KY 180 - CI KY 180 - CI KY 180 - CI KY 180 - CI FOR GUARDF TOTAL INCL	O REMOVE EX O REMOVE EX FOR CONCRET AT STA. 57 # 1 - STA. 57 # 2 - STA. 6 SION - STA. 6 SION - STA. ROSSOVER # ROSSOVER # ROSSOVER # ROSSOVER # RAIL BARRICA	T 275'LT. S ISTING 5' X (ISTING BRID (ISTING	221308 LIN 221308 LIN 221308 LIN 4a. 571+19 2.5' RCBC 3' RCBC GE OVER WILL GE OVER WILL GE OVER CS GE OVER CS GE OVER CS AISED MEDIA 4. 586+68 5TA. 586+68 5TA. 635+87 5TA. 111+00 10 TO STA. +60 TO STA. +40 TO STA. +20 TO STA. +20 TO STA.	FT JAMS CREEK (RAILROAD ST FORK LITT NS & 5.46 CI 59+00 54+00 58+80	
	ED IN THE PLANS, TO BE USED		29 TOTAL INCLUDES 4 FOR TEMP GUARDRAIL						
DIRECTED BY THE ENG			30 TOTAL INCLUDES 62 FOR TEMP GUARDRAIL						
CONTROLLING DUST	CAUSED BY MAINTAINING TRAFFIC		31)	PARCEL 91					
COMMON EXC. Rock exc.	EARTHWORK QUANTITIE US 60 KY 180 APPR ROADS ENTRANCES DIVERSIONS US 60	5 191275 CU YDS 28414 CU YDS 22607 CU YDS 1486 CU YDS 2411 CU YDS 439610 CU YDS	33 34	ESTIMATED FOR COLUMN PRINCELAND	FOR BACKST NS LT & RT DRIVE	OWING ONE N PRINCELAND			
	KY 180 APPR ROADS	CU YDS CU YDS	36 ESTIMATED FOR FILLING ONE VERTICAL MINE SHAFT OR AIR SHAFT						
APPR RD EMB	KMENT BENCHING BENCHING VERSE BENCHING	34984 CU YDS 5052 CU YDS 10537 CU YDS	(37) FOR SEPERATION OF ROCK DRAINAGE BLANKET (38) FOR HDWL & SIDE TAPERED INLET AT STA. 572+30.43 (39) FOR TEMPORARY FENCE ON PARCEL 69						
TOTAL EXCAVA	ATION	736376 CU YDS	40	150 LF OF SMOOTH STE	48" PIPE AT Ee <u>l Pipe</u> . Ye	CSX RRa ST. ILD STRENGI	A. 568+38 SH H 35.000 PS	IALL BE	
EMBANKMENT	US 60 KY 180 APPR ROADS ENTRANCES DIVERSIONS	341067 CU YDS 104 CU YDS 31205 CU YDS 2686 CU YDS 13587 CU YDS	<ul> <li>(1) ISO LI OL HO THE AT CONTINUE STATE SUCCESS SHALL BE SMOOTH STEEL PIPE, YEILD STRENGTH 35,000 PSI</li> <li>(4) INCLUDES 21 LF FOR SETTLEMENT PLATFORM AT APPRX. 20' LT. STA. 617+ AND 21 LF FOR SETTLEMENT PLATFORM AT APPROX. 20' LT. STA. 638+75</li> <li>(42) FOR DRAINAGE BLANKET (SEE GEO-TECHNICAL NOTE 33)</li> </ul>						. STA. 617+45 A. 638+75
ROCK ROADBED	) US 60 KY 180 APPR ROADS	120251 CU YDS 18921 CU YDS 3261 CU YDS	1	FOR A TREAT LATER	PAVEMENT MENT OF 2 F REVISED. T	THICKNESS O FEET OF ROC YPICAL SECT	F 15.5 INCHE K ROADBED. IONS WERE A	IECT WERE DE S AND SUBGR THE PAVEMEN DJUSTED TO I	ADE T WAS REFLECT
US 60 EMBANKMENT BENCHING 34984 CU YDS APPR RD EMB BENCHING 5052 CU YDS US 60 TRANSVERSE BENCHING 10537 CU YDS			THIS CHANGE. HOWEVER EARTHWORK QUANTITIES AND CROSS- SECTIONS WERE NOT REVISED AND, IN THIS CASE, TYPICAL SECTION GOVERN OVER CROSS SECTIONS. MAKE FINAL PAYMENT ON ADJUSTED QUANTITIES.						AL SECTIONS
TOTAL EMBAN	KMENT	581655 CU YDS							
E CONTRACTOR IS ADV OVE ARE SHOWN FOR I	ISED THAT THE EARTHWORK FIGU NFORMATION PURPOSES ONLY. K AND SWELL FACTORS ARE THE						S. 60 WI NERAL SL (2 OF	IMMARY	

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									REVISED 12			
10.		ITEM		NOTES	UNIT	US 60	K Y180	APPROACH ROADS	RAILROAD	PROJECT TOTALS		
D	THRIE-BEAM	GUARDRAIL TRANSITION	TL-3		LF	225		75		300		
С	PIPELINE INS	PECTION			LF	2929	513	857		4299		
С		REPLACE BRICK SIGN		34	EACH			3		3		
EN	WATERBLASTI	NG EXISTING STRIPE			LF	245100	22260	64602		331962		
SHALL GN SH ANKFO IN SHE 283 T UMMAF 13 TON UMMAF ELY 1 UANTI JS 60 (Y 180 APPRO Y TYF 3,200	BE HAULED E OP AND RECYC RT, KY. THER EET WHICH MUT ONS CARRIED Y & 1148 TON NS CARRIED OT Y. 13 ACRES TES INCLUDE: ACH ROADS PE RETAINING SQ YDS FOR	OVER FROM THE PIPE IS FOR SLOPE PROTECTION VER FROM THE PIPE 6 22 38	KYTC, THE KINSON VERY ON 24 LF 22 LF 32 LF	(f) (17) (18) (19) (20) (21) (22) (23) (24) (24)	CLEAN EXIS STA. 561+70 STA. 572+40 STA. 615+95 STA. 643+0 STA. 704+2 136 CU YD RCBC HDWL DIVERSION DIVERSION KY 5 DIVER KY 180 - CF KY 180 - CF KY 180 - CF	O REMOVE EX O REMOVE EX FOR CONCRET AT STA. 572 # 1 - STA. 55 # 2 - STA. 6 SION - STA. ROSSOVER # ROSSOVER #	T 275'LT. S ISTING 5'X ISTING BRIDC ISTING BRID ISTING BRID E CAP ON R 2+30.43 54+76 TO ST 530+06 TO S 100+12 TO S 100+12 TO S 1 - STA. 50+ 2 - STA. 50 3 - STA. 50 4 - STA. 50	221308 LIN 221308 LIN ta. 571+19 2.5' RCBC 3' RCBC 3' RCBC GE OVER WILLI GE OVER CSX GE OVER EAS AISED MEDIAN A. 586+68 TA. 635+87	FT AMS CREEK RAILROAD F FORK LITTL S & 5.46 CL 9+00 54+00 58+80			
					TOTAL INCL	UDES 5 FOR	TEMP END T	REATMENTS				
RARY SIGNING					TOTAL INCL	UDES 2 FOR	TEMP GUARD	RAIL ON KY 5	DIVERSION			
TED TO RESEMBLE WEATHERED GUARDRAIL					TOTAL INCL	UDES 1 FOR 1	EMP GUARDR	AIL				
ARE NOT NOTED IN THE PLANS, TO BE USED D BY THE ENGINEER.					TOTAL INCL	UDES 4 FOR	TEMP GUARD	RAIL				
DLLING	DUST CAUSE	D BY MAINTAINING TRAF	FIC ONLY.	30 TOTAL INCLUDES 62 FOR TEMP GUARDRAIL 31 PARCEL 91								
		EARTHWORK QUANTI										
СОММО	N EXC.	US 60 KY 180 APPR ROADS ENTRANCES DIVERSIONS	191275 CU YDS 28414 CU YDS 22607 CU YDS 1486 CU YDS 2411 CU YDS	33 34	ESTIMATED FOR COLUMN PRINCELAND	FOR BACKSTO NS LT & RT DRIVE	DWING ONE M PRINCELAND	UNDERDRAIN INE TUNNEL C DR. STA 9+71 OR ROADWAY	, SIGN RT S			
ROCK I	EXC.	US 60 KY 180 APPR ROADS	439610 CU YDS CU YDS CU YDS	36	ESTIMATED	FOR FILLING	ONE VERTIC	AL MINE SHAF				
APPR	EMBANKMENT RD EMB BENCH TRANSVERSE	ING	34984 CU YDS 5052 CU YDS 10537 CU YDS	<ul> <li>(37) FOR SEPERATION OF ROCK DRAINAGE BLANKET</li> <li>(38) FOR HDWL &amp; SIDE TAPERED INLET AT STA. 572+30.43</li> <li>(39) FOR TEMPORARY FENCE ON PARCEL 69</li> </ul>								
TOTAL	EXCAVATION		736376 CU YDS		150 LF OF SMOOTH STE	48" PIPE AT ( Eel pipf, yf	CSX RRa STA ILD STRENGT	A. 568+38 SHA H 35.000 PSI	ALL BE			
EMBAN	KMENT	US 60 KY 180 APPR ROADS ENTRANCES DIVERSIONS	341067 CU YDS 104 CU YDS 31205 CU YDS 2686 CU YDS 13587 CU YDS	(41) INCLUDES 21 LF FOR SETTLEMENT PLATFORM AT APPRX, 20' LT, STA, 617+								
JS 60	ROADBED EMBANKMENT		120251 CU YDS 18921 CU YDS 3261 CU YDS 34984 CU YDS	NOTE: THE US 60 CROSS SECTIONS FOR THIS PROJECT WERE DEVELOPED FOR A PAVEMENT THICKNESS OF 15.5 INCHES AND SUBGRADE TREATMENT OF 2 FEET OF ROCK ROADBED. THE PAVEMENT WAS LATER REVISED. TYPICAL SECTIONS WERE ADJUSTED TO REFLECT								
	RD EMB BENCH TRANSVERSE		5052 CU YDS 10537 CU YDS			N OVER CROS TITIES.	S SECTIONS.	. MAKE FINAL	PAYMENT ON	ADJUSTED		
TOTAL	EMBANKMENT		581655 CU YDS			[						
SHOWN Is fof	FOR INFORM	THAT THE EARTHWORK FI ATION PURPOSES ONLY. SWELL FACTORS ARE TH ACTOR.						S. 60 WII NERAL SUN (2 OF	MMARY			

EMBANKMENT	US 60
	KY 180
	APPR ROADS
	ENTRANCES
	DIVERSIONS
ROCK ROADBED	US 60
	KY 180
	APPR ROADS
US 60 EMBANKMENT BE	NCHING
APPR RD EMB BENCHING	5