

ADDENDUM NO. 1

Sedgwick County Project: 61st Street North for One Half Mile West of 151st Street West (R357)

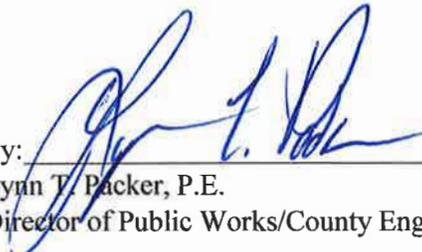
The items contained herein now become a part of the referenced plans and specifications. Please read the following items and acknowledge receipt of this addendum on the Proposal Page Number P-1. NOTE: THIS ADDENDUM MUST BE ACKNOWLEDGED TO CONSTITUTE A VALID BID.

SPECS:

- Replace SOP-1 with SOP-1R: Update quantity for “Cement Treated Base (10”)” and remove “Manipulation for Treated Subgrade (Cement)”
- Remove “Aggregate Base (Special)” Special Provision
- Add “Cement Treated Base (Slurry)” Special Provision

PLANS:

- Replace Sheet 3 with Sheet 3R. Adjust “Cement Treated Base” thickness from 6” to 10”
- Replace Sheet 19 with Sheet 19R: Adjust figures in the “Concrete Treated Base 10”) table; update and remove items from “Recapitulation of Road Quantities”

By: 

Lynn T. Packer, P.E.

Director of Public Works/County Engineer

Date: November 7, 2023

SCHEDULE OF PRICES

PROJECT: 61st Street North for One Half Mile West of 151st Street West (R357)

TYPE OF WORK: Grading, Concrete Surfacing, Seeding, and Pavement Marking

| Bidding Item | Approx. Quantity | Unit | Unit Price | Amount |
|---|---------------------|------|------------|--------|
| Contractor Construction Staking | 1 | LSUM | | |
| Field Office | 1 | EA. | | |
| Mobilization | 1 | LSUM | | |
| Removal of Existing Structures | 1 | LSUM | | |
| Clearing and Grubbing | 1 | LSUM | | |
| Common Excavation (Rural Large) | 7,625 | C.Y. | | |
| Compaction of Earthwork (Type B)(MR-90) | 1,449 | C.Y. | | |
| Rock Excavation | 237 | C.Y. | | |
| Water (Grading)(Set Price) | 1 | MGAL | \$ 35.00 | |
| Cement Treated Base (10") | 9,150 | S.Y. | | |
| Water (Base)(Set Price) | 1 | MGAL | \$ 35.00 | |
| Concrete Pavement (6" Uniform) (AE) | 326 | S.Y. | | |
| Concrete Pavement (8" Uniform) (AE) | 1,136 | S.Y. | | |
| Concrete Pavement (8" Uniform) (AE) (NRDJ) | 7,069 | S.Y. | | |
| Mailbox Installation (Set Price) | 2 | EA. | \$ 140.00 | |
| Surfacing Material (AB-3) | 85 | TON | | |
| Aggregate Shoulder (AB-3) (8") | 2,264 | S.Y. | | |
| Water (Aggregate Shoulders) (Set Price) | 1 | MGAL | \$ 35.00 | |
| Plant Mix Asphalt Mixture - Commercial Grade (Surface) | 38 | TON | | |
| Plant Mix Asphalt Mixture - Commercial Grade (Base) | 115 | TON | | |
| Cross Road Pipe (3.0 Sq. Ft.)(RCPHE) | 218 | L.F. | | |
| Cross Road Pipe (5.0 Sq. Ft.)(RCPHE) | 106 | L.F. | | |
| Entrance Pipe (3.0 Sq. Ft.)(RCPHE) | 29 | L.F. | | |
| Entrance Pipe (5.0 Sq. Ft.)(RCPHE) | 219 | L.F. | | |
| End Section (3.0 Sq. Ft.)(RCHE) | 10 | EA. | | |
| End Section (5.0 Sq. Ft.)(RCHE) | 12 | EA. | | |
| Signing Object Marker (Type 3) | 12 | EA. | | |
| Sign (Flat Sheet)(High Performance) | 29 | S.F. | | |
| Sign Post (1-3/4" Perforated Square Steel Tube) | 50 | L.F. | | |
| Sign Post Footing (1-3/4" Perforated Square Steel Tube) | 5 | EA. | | |
| Pavement Marking (Methyl Methacrylate)(White)(4") | 5,577 | L.F. | | |
| Pavement Marking (Methyl Methacrylate)(Yellow)(4") | 637 | L.F. | | |
| Pavement Marking (Methyl Methacrylate)(White)(24") | 43 | L.F. | | |
| Traffic Control | 1 | LSUM | | |
| Temporary Seeding | 1 | LSUM | | |
| Sediment Removal (Set Price) | 1 | C.Y. | \$ 35.00 | |
| Temporary Berm (Set Price) | 1 | L.F. | \$ 1.00 | |
| Biodegradable Log (20") | 528 | L.F. | | |

SCHEDULE OF PRICES

PROJECT: 61st Street North for One Half Mile West of 151st Street West (R357)

TYPE OF WORK: Grading, Concrete Surfacing, Seeding, and Pavement Marking

| Bidding Item | Approx. Quantity | Unit | Unit Price | Amount |
|------------------------------------|---------------------|------|------------|--------|
| SWPPP Design | 1 | LSUM | | |
| Water (Erosion Control)(Set Price) | 1 | MGAL | | |
| Seeding | 1 | LSUM | | |
| | | | | |
| | | | | |
| GRAND TOTAL | | | | |

In Words: _____

DOLLARS

Company or Firm Name

BY _____

TITLE _____

SPECIAL PROVISION

NOTE: This special provision is generally written in the imperative mood. The subject, "the Contractor" is implied. Also implied in this language are "shall", "shall be", or similar words and phrases. The word "will" generally pertains to decisions or actions of Sedgwick County Public Works. The term "Standard Specifications" refers to the Kansas Department of Transportation Standard Specifications for State Road and Bridge Construction (latest edition).

CEMENT TREATED BASE (SLURRY)

1.0 DESCRIPTION

Design a cementitious slurry mixture consisting of a homogeneously blended mix of cementitious materials and water for modification and stabilization of subgrade soils, sub-bases, and bases. Construct one or more courses of the cementitious slurry treated base as shown in the Contract Documents.

BID ITEMS

Cement Treated Base (*)

*Thickness

UNITS

Sq. Yd.

2.0 MATERIALS

Provide materials that comply with the applicable requirements of the Kansas Department of Transportation Standard Specifications for State Road and Bridge Construction (latest edition).

| | |
|---|---------------|
| Admixtures, Plasticizers, and Silica Fume | DIVISION 1400 |
| Cement, Fly Ash, and Ground Granulated Furnace Slag | DIVISION 2000 |
| Water for use with Cement..... | DIVISION 2400 |

The Contractor shall submit the mix design for the cement slurry to the Engineer for approval prior to construction of the base course. The mix design submittal shall include all necessary certifications for supplementary cementitious materials and additives to be used. The Engineer may sample and test project materials at any time before and during placement.

- a. **Cement.** Furnish cement conforming to Section 2001, "Blended Hydraulic Cement," of the KDOT Standard Specifications. Properly store the cement to prevent moisture damage. Do not use material which has become caked due to moisture absorption. Do not use cement containing lumps or foreign matter of a nature and in amounts that may be deleterious to the mixing operations.

3.0 PROCESS CONTROL

- a. **General.** During construction, the Engineer may conduct tests to verify compliance of the approved mix design. Any load that fails a test for consistency or viscosity shall be re-tested at least one additional time within 30 minutes after the initial failed test. A second failure will result in rejection of the entire load.

- b. **Consistency.** A 500 cc portion of the slurry will be removed from the middle of the load. The slurry suspension will be allowed to sit with no vibration or agitation at ambient temperature for 30 minutes. Little or no separation of liquid or solid should occur.
- c. **Viscosity.** The Marsh Funnel Viscosity of the slurry shall be a minimum of 60 seconds when measured according to ASTM D6910.

4.0 Slurry Mix

- a. **General.** Design the slurry mix specified in the Contract Documents.

Provide cementitious materials that comply with the requirements of DIVISION 2000 of the KDOT Standard Specifications.

Submit all slurry mix designs to the Engineer for review and approval.

Do not place any slurry on the project until the Engineer approves the mix design. Once the Engineer approves the slurry mix design, do not make changes without the Engineer's approval.

- b. **Cementitious Material.** The slurry mix shall contain a minimum of 55% cementitious material by mass. The 7-day minimum and maximum required unconfined compressive strength for soil cement shall be as follows:
 - (1) 400 psi and 800 psi, respectively.
- c. **Stabilizing Agent.** The slurry mixture shall contain a stabilizing agent capable of maintaining a homogeneous mixture of the cementitious materials in the water for at least four (4) hours after it has been batched.

5.0 EQUIPMENT

Provide a mixing plant, tools, and equipment necessary for proper mixing and delivery of the slurry.

- a. **Storage Facility.** Store all components, except water, in weatherproof containers.
- b. **Slurry Plant.** Provide a pneumatic/hydraulic mixing plant with monitoring devices to regulate flow rates and line pressures. Regulate slurry proportions by calibrated scales. Include all storage silos, weather protection, sheds, scales, pumps, mixers, valves, gauges and regulating devices required to continuously measure and mix cementitious slurry at the batch plant. The plant should provide safe and easy access for the Engineer to obtain samples.

All components of the slurry solution shall be mixed using a high energy static mixing apparatus. All mechanical mixing must be pump driven. Lime slaking tanks, paddle driven mixers and other similar technology shall not be employed.

- c. **Delivery equipment.** Deliver slurry to the project site in a non-baffle tank vehicle that does not re-circulate or agitate the slurry material by any means other than the motion of the vehicle in normal movement. Application of the slurry will be through a vehicle that both injects the slurry into the substrate soil and meters the amount of product per square yard that is placed.
- d. **Tickets.** Generate tickets through the function of the calibrated plant scales. Tickets shall document the amount of cementitious product in a dry ton mass.

6.0 CONSTRUCTION REQUIREMENTS

Construct each layer uniformly, free of loose or segregated areas and with the required density and moisture content. Provide a surface that conforms to the typical sections, lines, and grades shown in the Contract Documents.

- a. **Preparation.** Before treating the existing base, pulverize, mill or remove existing pavement in accordance with the Contract Documents. Shape existing material to conform to the typical sections shown on the plans. Correct soft spots as directed.

When new base material is required to be mixed with existing base, deliver, place, and spread the new material in the required amount per station. Manipulate and thoroughly mix new base with existing material to provide a uniform mixture to the specified depth before shaping.

- b. **Pulverization.** After shaping, pulverize or scarify existing material so that 100% passes a 1½” sieve. If the material cannot be uniformly processed to the required depth in a single pass, windrow and excavate the material to expose a secondary grade to achieve plan depth.
- c. **Application of Cementitious Slurry.** Uniformly inject cementitious material into the pulverized pavement or soil that is below optimum moisture for compaction. Distribute slurry uniformly in successive passes until desired cement content is achieved. The substrate soil should be ripped, scarified or ground, to expose the maximum amount of surface area to be coated by the slurry. The slurry shall be mixed throughout the substrate material with a mixer of sufficient size and power in a timely manner.
- d. **Application rate.** The Engineer will work with the Contractor to determine the application rate of the cementitious slurry to produce a base course that meets the requirements shown in the Contract Documents.

Thorough mixing and compaction of cementitious slurry treated base must be completed within two hours after injecting the slurry into the substrate soil/pulverized material. The slurry may begin to dry or form a white crust when exposed to high temperatures. This will require a light application of water spraying or misting of sufficient means to return the slurry to its original gray color. Apply only the proper amount of water to achieve the desired compaction.

- e. **Compaction.** For the initial compaction of the mixture, use a vibratory roller having a minimum operating weight of 12 tons, with a minimum centrifugal force of 24 tons. Use a rubber-tired or smooth-wheeled roller to complete the compaction of the surface. Compact the base course in one lift using density control unless otherwise shown in the Contract Documents. Compact the treated subgrade to a minimum of 95% of the combined materials dry density. Complete the compaction operations within 2 hours of incorporating the cement into the subgrade. If any of these requirements are not satisfied, reprocess, recompact and refinish the deficient areas.

Begin rolling longitudinally at the sides and proceed towards the center, overlapping on successive trips by at least one-half the width of the roller unit. Offset alternate trips of the roller. Operate rollers at a speed between 2 and 6 MPH, as directed. Remove areas that lose required stability, compaction, or finish. Replace with cementitious mixture at the Contractor's expense.

Roll with approved compaction equipment, as directed. Correct irregularities, depressions, and weak spots immediately by scarifying the areas affected, adding or removing treated material as required, reshaping, and re-compacting.

- f. **Trimming.** After compaction of the treated subgrade, trim and recompact the treated subgrade to the specified lines and grades. Use automatic grade controlled equipment to trim the subgrade. In irregular areas, trim the subgrade by wetting, blading and rolling.

Trim and recompact the subgrade within 2½ hours of the time the slurry mix is added to the subgrade. Recompact the trimmed surface of the treated subgrade with a smooth-wheel or a pneumatic-tire roller. Lightly scarify and blade the surface to eliminate equipment imprints while performing final rolling.

Keep the surface moist during all finishing operations.

Perform the trimming and compacting operations to produce a dense surface, free of surface compaction planes, cracks, ridges or loose material that meets the specified lines and grades.

- g. **Protection and Curing.** Protect the cement modified subgrade against the loss of moisture for a curing period of 7 days (unless the Contractor's mix design test results justify a different curing period). Protect the CTB against freezing during the curing period. Do not allow equipment on the finished course during curing except as required for sprinkling, unless otherwise approved.

Local traffic may require access during the curing period. The Contractor shall maintain traffic control measures during this period, and shall take reasonable precautions to ensure traffic does not damage the CTB. Reasonable precautions include, but are not limited to, advanced communications with local residents and businesses, scheduling modifications to meet local needs, utilizing flagmen to monitor traffic, and limited emergency access only periods to select portions of the work area.

7.0 WEATHER LIMITATIONS

Do not place material if the CTB will be exposed to ambient air temperatures below 32°F during the first 7 days of cure. (See subsections 3.b. and e.). Remove and replace all CTB that is permitted to freeze within the first 24 hours, whether frozen on the surface or full depth. When materials are exposed to freezing ambient air temperatures after the first 24 hours but before the 7 day cure period is complete, demonstrate that the 7 day design strength has been achieved. Failure to demonstrate the 7 day design strength has been achieved shall require removal and replacement at Contractor's expense.

As directed by the Engineer and at the Contractor's expense, repair or replace cured materials exposed to ambient air temperatures below freezing or repeated freeze/thaw cycles that result in loosening or fluffing of the surface.

A lift of pavement placed prior to exposure to freezing ambient air temperatures constitutes curing of the CTB.

During periods of hot weather or windy conditions, special precautions shall be taken to minimize moisture loss due to evaporation. Precautions may include temporary windbreaks to reduce wind velocity, cooling of slurry mix water, decreasing the allowable time between mixing and final compaction, and keeping the surface of the newly constructed base course damp with a light spray during compaction and finishing operations.

Do not place material on frozen subgrade. Mixing and placing may proceed when the ambient air temperature is 40°F and rising, and discontinue when the ambient air temperatures reaches 45°F and falling.

8.0 MEASUREMENT AND PAYMENT

The Engineer will measure the cement treated base course by the square yard. Material placed beyond the neat lines indicated in the Contract Documents is not measured for payment unless authorized by the Engineer.

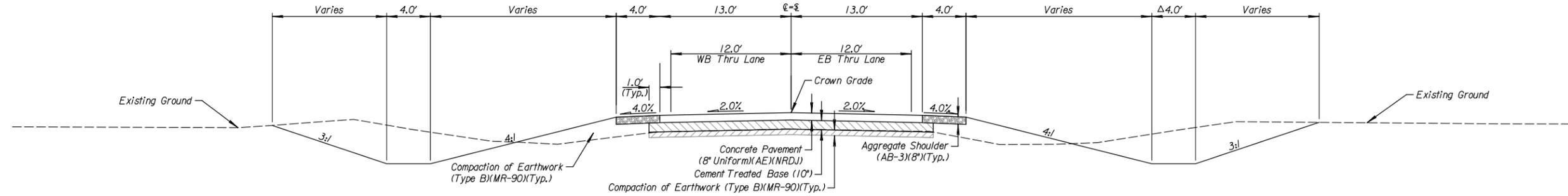
Payment for "Cement Treated Base" at the contract unit prices is full compensation for the specified work.

UPDATED 12//5/18 – weather limitations. For use on projects letting in January 2019 or later. LTP

UPDATED 11/7/23 – Strengths. For use on projects letting in November 2023 or later. LTP

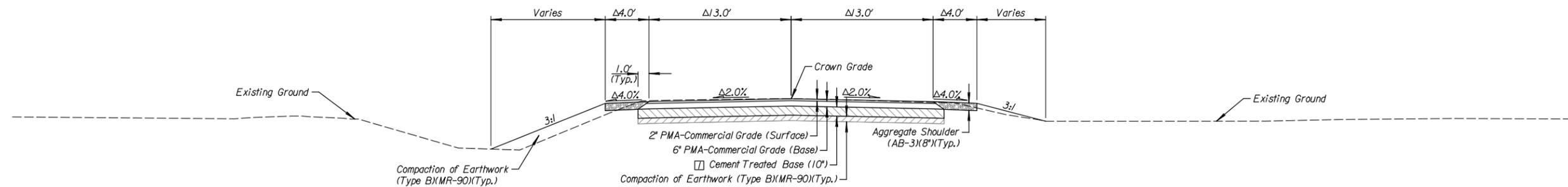
| | | | | |
|----------|-------------|------|-----------|--------------|
| COUNTY | PROJECT NO. | YEAR | SHEET NO. | TOTAL SHEETS |
| SEDGWICK | R357 | 2023 | 3 R | 83 |

REVISED PLANS



TYPICAL SECTION - 61ST STREET NORTH

Sta. 36+75.52 to Sta. 61+23.27
 ΔSta. 56+00.00 to Sta. 57+75.00 - Transition from 4.0' to 0.0'
 ΔSta. 59+00.00 to Sta. 59+25.00 - Transition from 0.0' to 4.0'



TYPICAL SECTION - 151ST STREET WEST

Sta. 151+61.89 to Sta. 152+21.89
 Sta. 153+74.10 to Sta. 154+34.10
 ΔTransition road and shoulder widths and slopes to match existing

Note:
 See Cross Sections for Special Ditch Elevations
 The sections are typical. See Plan and Cross Section Sheets for variations.
 Refer to Right-of-Way and Easement Sheets for Existing & Proposed Right-of-Way dimensions.

SEDGWICK COUNTY PUBLIC WORKS

TYPICAL SECTIONS

11-7-23 - Updated 6" Cement Treated Base to 10" Cement Treated Base

SEDGWICK COUNTY, KS

| | |
|--------------------|--|
| DATE | |
| BY | |
| REFERENCES NOTED | |
| REFERENCES CHECKED | |

Drawn By : lcvohs
 File : ...Road\Sheets\C-TYP-M01-101.dgn
 Plotted : 11/7/2023

| | | | | |
|--------|-------------|------|-----------|--------------|
| STATE | PROJECT NO. | YEAR | SHEET NO. | TOTAL SHEETS |
| KANSAS | R357 | 2023 | 19 R | 83 |

REVISED PLANS

| CONCRETE PAVEMENT (8" UNIFORM)(AE)(NRDJ) | | | | |
|--|----------|-----------|------|--------|
| STATION | STATION | WIDTH FT. | SIDE | S.Y. |
| 36+75.52 | 61+23.27 | 26.0 | € | 7068.5 |
| TOTALS (S.Y.) | | | | 7068.5 |

| CONCRETE PAVEMENT (8" UNIFORM)(AE) | | | | |
|------------------------------------|----------|-----------|------|--------|
| STATION | STATION | WIDTH FT. | SIDE | S.Y. |
| 61+23.27 | 62+87.61 | Varies | € | 1135.8 |
| TOTALS (S.Y.) | | | | 1135.8 |

| CEMENT TREATED BASE (10") | | | | |
|---------------------------|-----------|-----------|------|--------|
| STATION | STATION | WIDTH FT. | SIDE | S.Y. |
| 36+75.52 | 62+87.61 | Varies | CL | 8797.6 |
| 151+61.89 | 152+21.89 | Varies | CL | 176.7 |
| 153+74.10 | 154+34.10 | Varies | CL | 175.4 |
| TOTALS (S.Y.) | | | | 9149.7 |

| CONCRETE PAVEMENT (6" UNIFORM)(AE) | | | |
|------------------------------------|-----------|------|-------|
| STATION | WIDTH FT. | SIDE | S.Y. |
| 43+53.59 | 33.0 | Rt. | 126.5 |
| 48+74.61 | 28.0 | Rt. | 111.6 |
| 56+90.46 | 17.0 | Lt. | 88.2 |
| TOTALS (S.Y.) | | | 326.3 |

Concrete Driveways

| EARTHWORK | | | | | | | | | | | | |
|------------------------|------------|------|---------|------|----------------------|------------------------|----------------------|----------------------------|-----------------|------------------------|-------------|----------------------------|
| STATION to STATION | EXCAVATION | | | | COMPACTION | | | THROUGH CUTS NOT SUBGRADED | | * EMBANKMENT (CU.YDS.) | | PLACE. SELECT SOIL CU.YDS. |
| | COMMON | | ROCK | | CONTR. FURN. CU.YDS. | TYPE AA MR-0-5 CU.YDS. | TYPE B MR-90 CU.YDS. | COMM. CU.YDS. | TYPE AA CU.YDS. | INITIAL CONSOL. | SETTLE-MENT | |
| | CU.YDS. | VMF | CU.YDS. | VMF | | | | | | | | |
| 36+75.53 to 61+23.27 | 6,195.5 | 0.85 | 0.0 | 1.00 | (4,552.7) | | 1,396.4 | | | | | |
| 151+61.89 to 156+69.88 | 1,429.5 | 0.85 | 236.8 | 1.00 | (1,367.7) | | 52.5 | | | | | |
| TOTALS | 7,625 | 0.85 | 237 | 1.00 | (5,920.4) | | 1,449 | | | | | |

Average Thickness of Existing Pavement for Rock Excavation quantity is 12.0"

| DRAINAGE STRUCTURES | | | | | | | | | | | |
|---------------------|------|-----------------|------|------------------------------|-----------------------------------|-----------------------------------|---|---------------------|---------------------|---------------------|--------------------|
| STATION | SIDE | SIZE | TYPE | CONCRETE GRADE 4.0 (CU. YD.) | CONCRETE GRADE 4.0 (AE) (CU. YD.) | REINFORCING STEEL (GR. 60) (LBS.) | REINFORCING STEEL (EPOXY COATED) (LBS.) | DRAINAGE PIPE (FT.) | | END SECTIONS (EACH) | |
| | | | | | | | | 3.0 Sq. Ft. (RCPHE) | 5.0 Sq. Ft. (RCPHE) | 3.0 Sq. Ft. (RCHE) | 5.0 Sq. Ft. (RCHE) |
| 43+53.84 | | 5.0 Sq. Ft. | EP | | | | | 51.6 | | | 2 |
| 43+92.79 | | 5.0 Sq. Ft. | CRP | | | | | 55.1 | | | 2 |
| 48+74.65 | | 5.0 Sq. Ft. | EP | | | | | 45.7 | | | 2 |
| 53+16.82 | | 2 - 3.0 Sq. Ft. | CRP | | | | | 106.4 | | 4 | |
| 53+62.13 | | 5.0 Sq. Ft. | EP | | | | | 49.9 | | | 2 |
| 56+90.48 | | 5.0 Sq. Ft. | EP | | | | | 36.4 | | | 2 |
| 57+71.72 | | 2 - 3.0 Sq. Ft. | CRP | | | | | 111.2 | | 4 | |
| 59+55.83 | | 5.0 Sq. Ft. | EP | | | | | 34.9 | | | 2 |
| 61+00.00 | | 5.0 Sq. Ft. | CRP | | | | | 50.9 | | | |
| 155+31.88 | | 3.0 Sq. Ft. | EP | | | | | 29.3 | | | 2 |
| TOTALS | | | | | | | | 246.9 | 324.5 | 10 | 12 |

| MAILBOX INSTALLATION (FOR INFORMATION ONLY) | | |
|---|--------|------|
| STATION | OFFSET | SIDE |
| 57+01.68 | 14.95 | Lt. |
| 155+47.43 | 16.45 | Lt. |
| TOTALS (E.A.) | | 2 |

| REMOVAL OF EXISTING STRUCTURES (FOR INFORMATION ONLY) | | |
|---|------|-----------------------------------|
| STATION | SIDE | DESCRIPTION |
| 43+53.84 | Rt. | 148.5 L.F. Exist. 18" CMP |
| 43+92.93 | CL | 80.1 L.F. Exist. 24" CMP |
| 48+72.72 | Rt. | 89.2 L.F. Exist. 18" CMP |
| 53+18.32 | CL | 43.3 L.F. Exist. 18" CMP |
| 53+21.86 | CL | 43.9 L.F. Exist. 18" CMP |
| 53+61.19 | Lt. | 30.8 L.F. Exist. 15" CMP |
| 56+85.46 | Lt. | 36.7 L.F. Exist. 12" CMP |
| 59+51.62 | Lt. | 48.2 L.F. Exist. 18" CMP |
| Project Wide | - | Existing Signs, posts, & footings |

| RECAPITULATION OF ROAD QUANTITIES | | |
|--|----------|------|
| ITEM | QUANTITY | UNIT |
| Contractor Construction Staking | Lump Sum | LSUM |
| Field Office | 1 | EA. |
| Mobilization | Lump Sum | LSUM |
| Removal of Existing Structures | Lump Sum | LSUM |
| Clearing and Grubbing | Lump Sum | LSUM |
| Common Excavation (Rural Large) | 7625 | C.Y. |
| Compaction of Earthwork (Type B)(MR-90) | 1449 | C.Y. |
| Rock Excavation | 237 | C.Y. |
| Water (Grading)(Set Price) | 1 | MGAL |
| Cement Treated Base (10") | 9150 | S.Y. |
| Manipulation for Treated Subgrade (Cement) | 8798 | S.Y. |
| Water (Base) (Set Price) | 1 | MGAL |
| Concrete Pavement (6" Uniform)(AE) | 326 | S.Y. |
| Concrete Pavement (8" Uniform)(AE) | 1136 | S.Y. |
| Concrete Pavement (8" Uniform)(AE)(NRDJ) | 7069 | S.Y. |
| Cross Road Pipe (3.0 Sq. Ft.)(RCPHE) | 218 | L.F. |
| Entrance Pipe (3.0 Sq. Ft.)(RCPHE) | 29 | L.F. |
| Cross Road Pipe (5.0 Sq. Ft.)(RCPHE) | 106 | L.F. |
| Entrance Pipe (5.0 Sq. Ft.)(RCPHE) | 219 | L.F. |
| End Section (3.0 Sq. Ft.)(RCHE) | 10 | EA. |
| End Section (5.0 Sq. Ft.)(RCHE) | 12 | EA. |
| Traffic Control | Lump Sum | LSUM |
| Mailbox Installation (Set Price) | 2 | EA. |

See Sheet 20 for Surfacing & Aggregate Driveway Quantities
 See Sheet 21 for Temporary Seeding Quantities
 See Sheet 28 for Permanent Seeding Quantities
 See Sheet 29 for Signing Quantities
 See Sheet 30 for Pavement Marking Quantities

Drawn By: lcvohs
 File: ... \Road\Sheets\C-DET-RD050.dgn
 Plotted: 11/7/2023

11-7-23 - Removed Manipulation for Treated Subgrade (6") bid item. Updated the Cement Treated Base (10") table and quantity.

| NO. | DATE | REVISIONS | BY | APP'D |
|-----|---------|---------------------------------|--------|--------|
| 2 | 1-14-08 | Rem. Drainage Structure summary | S.W.K. | J.O.B. |
| 1 | 1-9-91 | Detailed on CADD | R.J.S. | J.O.B. |

KANSAS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

RD050

| | | |
|---------------|------------|------------------------|
| FHWA APPROVAL | 5-28-08 | APP'D. James O. Brewer |
| DESIGNED | DETAILED | QUANTITIES |
| DESIGN CK. | DETAIL CK. | QUAN CK. |
| | | TRACE CK. S.W.K. |