

## ADDENDUM NO. 3

**TO: PLANS AND SPECIFICATIONS FOR STATE OF MISSOURI**

**New Premium Campsites  
Watkins Woolen Mill State Park and State Historic Site  
Project No. X2220-01**

**Bid Opening Date: 1:30 PM, Thursday, June 5, 2025 (Not Changed)**

**Bidders are hereby informed that the construction Plans and/or Specifications are modified as follows:**

### **SPECIFICATION CHANGES:**

1. Section 004322 – Unit Prices Form: Change Unit Price No. 4 LPSF Base Bid Quantity to 6,488CY.
2. Section 321216 – ASPHALT PAVING PART 2.4.B.2-3: Base Course changed to MoDOT BP-2 and Surface Course changed to MoDOT BP-1.

### **DRAWING CHANGES/CLARIFICATIONS:**

1. Sheet C-102 – updated water pipe size.
2. Sheet C-104 – updated the surface and base notes for the asphalt pavement.
3. Sheet C-501 – updated outfall notes and added concrete support detail.
4. Sheet C-513 to C-515 – updated water pipe size, added additional notes regarding the waterline crossing 162<sup>nd</sup> St and the proposed meter and pit.
5. Sheet C-521 – added pipe sizes and additional information to the waterline connection details.
6. Sheet C-603 – updated silt fence note to say straw wattles, silt fence not allowed for this project.

### **GENERAL COMMENTS:**

#### **1. RESPONSE TO QUESTIONS:**

- a) Are aluminum feeders properly sized in lieu of the copper feeders acceptable?

*Response: To be consistent with previous Parks projects, ONLY copper feeders will be acceptable.*

- b) Can the testing be done by the contractor, or does it need to be done by a third party?

*Response: As specified in each Div 26 Section, contractor to perform testing as outlined and provide test reports.*

- c) Is it too late to try and get some other light fixtures pre-approved? Or is there a list of others that already have been?

*Response: A proposed equal will need to be submitted for review. The addendum #2 already has an "equal" added.*

- d) Can all the verification documents for American and Missouri – Made Products and Firms requirements provided in an addendum, so all subs/material suppliers are prepared?

*Response: The current Spec 002113 – Instruction to Bidders - Article 13 is a preference-based statement and not a requirement.*

- e) Should the base bid unit price quantities be used if calculations performed are different.

*Response: All base bid quantities shall be used on bids. During construction, if more material is needed, the unit costs will be used for the additional quantity. Actual quantities on-site shall be coordinated and agreed upon by construction administrator each day.*

- f) Can silt fence be used in place of straw wattles?

*Response: No, Missouri State Parks does not allow silt fence.*

- g) Addendum 2 tells you where to find MODOT's Asphalt Index on MODOT's website and the asphalt section of the specs makes no reference to the Asphalt Cement Price Index. Will MODOT's asphalt cement price index on MODOT's website be applied and used for the asphalt on this project?

*Response: The MODOT's asphalt price index was provided for a reference. This is not an allowance for the project. It will be up to the contractor to bid what is required by the specifications for both asphalt concrete.*

- h) Is soil cement acceptable for use for unit price number 5 in lieu of lime?

*Response: No.*

- i) Will a prime coat or herbicide application to the base rock be required?

*Response: Yes, for both, see spec section 321216 Asphalt Paving, Part 3.6 Surface Preparation.*

- j) Please confirm that this project is not tax exempt as indicated per section 002113 per instruction to bidders.

*Response: Correct, this project is NOT tax exempt.*

- k) Note 11 on Sheet C-001 indicates base asphalt shall not exceed 30% rap on the asphalt base and the surface shall be all virgin. Please confirm that the surface is to be all virgin material.

*Response: Confirmed, this is correct. Please refer to Spec Section 321216 Part 3.6.*

- l) Plan sections call for Type 5-01 asphalt base and 5-01 Asphalt surface which first for note 5 above. While specs call for BP-1 for base (which is actually a surface mix) and BP-2 for surface which typically contains rap as MODOT allows rap in all their mixes. Please clarify which asphalt mixes are to be used.

*Response: This reference will be removed from typical sections. The spec section will be revised. BP-1 will be for surface mixes and BP-2 will be base mixes.*

- m) Will we need to drain the existing lagoon to tie into the new system? Can we get a detail for the tie in?

*Response: The outlet pipe to the lagoon has been revised. More clarity has been added to the plans to show the pipe outlet invert is submerged beneath the permanent pool. The contractor shall consider dewatering efforts necessary for construction of the outlet as subsidiary to other items. Contractor shall coordinate with the Parks Department to schedule dewatering efforts and construction of the outlet pipe. The*

*contractor shall consider construction of the outlet pipe potentially in the off-season when the park is closed and the lagoon level should be lower to minimize impact.*

- n) Can you clarify if any of the site lighting is included in Alt. 2 or is that all within the base bid?

*Response: The Type A2 Light Fixture at the gate is part of Add Alternate 2 as noted. The three (3) Type B1 Light Fixture are part of Base Bid. If Add Alternate 2 is not taken, the three (3) Type B1 fixtures are to be fed out of Distribution Panel DP3, provide a 1 pole, 20 amp breaker for the Site lighting circuit. Wire sizes to remain the same.*

2. The Pre-Bid Meeting was held on May 7, 2025, at 10:00 AM.
3. Please contact Paul Girouard, Contract Specialist, at 573-751-4797 or Paul.girouard@oa.mo.gov for questions about bidding procedures, MBE\WBE\SDVE Goals, and other submittal requirements.
4. The deadline for technical questions is **May 27, 2025** at 12:00 PM.
5. Changes to, or clarification of, the bid documents are only made as issued in the addenda.
6. Chad Potter will be out of the office May 23-30. Please route addendum questions to Ashley Shmalberg. Email address Ashley@bevireo.com.
7. All correspondence with respect to this project must include the State of Missouri project number as indicated above.
8. Current Plan holders list available online at <https://www.oafmdcplanroom.com/projects/2792/plans/X2220-01-new-premium-campsites>
9. Prospective Bidders contact American Document Solutions, 1400 Forum Blvd Suite 1C, Columbia MO 65201, 573-446-7768 to order official plans and specifications.
- 10. All bids shall be submitted on the bid form without additional terms and conditions, modifications, or stipulations. Each space on the bid form shall be properly filled including a bid amount for each alternate. Failure to do so will result in rejection of the bid.**
- 11. MBE/WBE/SDVE participation requirements can be found in DIVISION 00. The MBE/WBE/SDVE participation goals are 10%/10%/3%, respectively. Only certified firms as of the bid opening date can be used to satisfy the MBE/WBE/SDVE participation goals for this project. If a bidder is unable to meet a participation goal, a Good Faith Effort Determination Form must be completed. Failure to complete this process will result in rejection of the bid.**

#### **ATTACHMENTS:**

1. Bid Form
2. Spec Section 321216
3. Sheet C-102
4. Sheet C-104
5. Sheet C-501
6. Sheet C-513, C-514, C-515
7. Sheet C-521
8. Sheet C-603

**May 29, 2025**

**END OF ADDENDUM NO. 3**

All bid documents shall be emailed to [FMDCBids@oa.mo.gov](mailto:FMDCBids@oa.mo.gov)

## SECTION 004113 - BID FORM

## PER ADDENDUM NO. 3

### 1.0 BID

A. From: \_\_\_\_\_  
(Bidder's Company Name)

☐ Sole Proprietorship/General Partnership ☐ LLC ☐ Limited Partnership ☐ Corporation ☐ Joint Venture

Address: \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone: \_\_\_\_\_ Email: : \_\_\_\_\_

Federal ID Number: \_\_\_\_\_ Missouri Business Charter Number: \_\_\_\_\_

Contact Name: \_\_\_\_\_ Contact email: \_\_\_\_\_

herein after called the "**Bidder**".

B. To: Director, Division of Facilities Management, Design and Construction  
Room 730, Harry S Truman State Office Building  
301 West High Street  
Jefferson City, Missouri 65101

herein after called the "**Owner**."

C. For: New Premium Campsites  
Watkins Woolen Mill State Park and State Historic Site  
Lawson, Missouri

D. Project Number: X2220-01  
hereinafter called the "**Work**."

E. Documents: The undersigned, having examined and being familiar with the local conditions affecting the work and with the complete set of contract documents, including the Drawings, the Invitation For Bid, Instructions To Bidders, Statement of Bidders Qualifications, General Conditions, Supplement to General Conditions, and the technical specifications, including: addenda number \_\_\_\_\_ through \_\_\_\_\_ hereby proposes to perform the Work for the following:

F. Bid Amount: \_\_\_\_\_  
\_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

G. Allowances: See Section 012100 for details.

H. Alternates: Alternate No. 1: Widen entry road as indicated on the Drawings labeled "Alternate #1." For requirements refer to Plans and Specifications.

\_\_\_\_\_  
\_\_\_\_\_ Dollars (\$ \_\_\_\_\_)



Alternate No. 2: Install cantilever gates, operators, loop detectors, keypad, fencing, bollards, lighting and all associated amenities as indicated on the Drawings labeled "Alternate #2." For requirements refer to Plans and Specification Sections 323100 and 323119.

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Dollars (\$\_\_\_\_\_)

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## **2.0 MBE/WBE/SDVE PERCENTAGE OF PARTICIPATION PROJECT GOALS**

- A. This project's specific goals are: **MBE 10%, WBE 10%, and SDVE 3%**. NOTE: Only MBE/WBE firms certified by the State of Missouri Office of Equal Opportunity, and SDVE(s) meeting the requirements of Section 34.074, RSMo, and 1 CSR 30-5.010, as of the date of bid opening can be used to satisfy the MBE/WBE/SDVE participation goals for this project.

## **3.0 BID BOND**

- A. Accompanying the bid is: \_\_\_\_ 5% Bid Bond or \_\_\_\_ Cashier's Check/Bank Draft for 5% of base bid that is payable without condition to the Division of Facilities Management, Design and Construction, State of Missouri, as per Article 5 of "Instructions To Bidders".

## **4.0 CONTRACT COMPLETION TIME AND LIQUIDATED DAMAGES**

- A. The Bidder agrees to complete the work within **540 working days** from the date the Notice of Intent to Award is issued as modified by additional days added by the Owner's acceptance of alternates, if applicable. This includes ten (10) working days for document mailing and processing. The Bidder further agrees to pay to or allow the State as **liquidated damages the sum of \$1,000** for each working day thereafter that the entire work is not substantially complete.

## **5.0 ATTACHMENTS TO BID**

004322	Unit Prices Form
004336	Proposed Subcontractors
004337	MBE/WBE/SDVE Compliance Form
004338	MBE/WBE/SDVE Joint Venture Form
004339	MBE/WBE/SDVE Waiver Form
004340	SDVE Business Form
004541	Affidavit of Work Authorization
004545	Anti-Discrimination Against Israel Act Certification form

## **6.0 BIDDER'S CERTIFICATIONS**

By signing and submitting this bid form, the Bidder certifies as follows:

### **A. No Undisclosed Interests or Associations, Collusion, or Solicitation of Other Bidders**

1. This bid is genuine and is not made in the interest of or on behalf of any undisclosed person, firm, or corporation, and is not submitted in conformity with any agreement or rules of any group, association or corporation.
2. The Bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham proposal.
3. The Bidder has not solicited or induced any person, firm or corporation to refrain from submitting a bid.
4. The Bidder has not sought by collusion or otherwise to obtain any advantage over any other bidder or over the Owner.

**B. Accuracy of Contract Documents**

The Bidder has based this bid upon an official/complete set of contract documents, either obtained from the Owner or from a secondary source known to the Bidder to have provided a complete and accurate set of contract documents. If the Bidder received the contract documents from such a secondary source, any errors or omissions in the contract documents shall be interpreted and construed in favor of the Owner and against the Bidder. This bid is based upon the conditions within Article 1.2 of the General Conditions.

**C. Non-Discrimination**

The Bidder will not discriminate against any employee or applicant for employment because of race, creed, color or national origin in the performance of the Work.

**D. Prevailing Wage**

**MISSOURI PREVAILING WAGE LAW (Sections 290.210 to 290.340, RSMo):** The Contractor shall pay not less than the specified hourly rate of wages, as set out in the wage order attached to and made part of the specifications for work under this contract, to all workers performing work under the contract, in accordance with sections 290.210 to 290.340, RSMo. The Contractor shall forfeit a penalty to the Owner of one hundred dollars per day (or portion of a day) for each worker that is paid less than the specified rates for any work done under the contract by the Contractor or by any subcontractor, in accordance with section 290.250, RSMo.

**DAVIS-BACON ACT:** If this Project is financed in whole or in part from Federal funds (as indicated in the Instructions to Bidders or other bid or contract documents for this Project), then this contract shall be subject to all applicable federal labor statutes, rules and regulations, including provisions of the Davis-Bacon Act, 40 U.S.C. §3141 et seq., and the “Federal Labor Standards Provisions,” as further set forth in Section 007333 – Supplementary General Conditions for Federally Funded/Assisted Construction Projects, which is incorporated into the contract by reference. Where the Missouri Prevailing Wage Law and the Davis-Bacon Act require payment of different wages for work performed under this contract, the Contractor and all Subcontractors shall pay the greater of the wages required under either law, on a classification-by-classification basis.

**E. Transient Employers**

The Bidder will comply with the provisions of Sections 285.230-234, RSMo, regarding transient employers.

**F. Federal Work Authorization Program**

The Bidder has enrolled and is participating in, and will continue to participate in, a federal work authorization program in accordance with Sections 285.525 and 285.530, RSMo for the duration of any contract awarded because of this bid.

**G. Illegal Immigration Reform and Immigrant Responsibility Act (IIRIRA)**

1. If awarded contract for this project, the Bidder/Contractor shall only utilize personnel authorized to work in the United States in accordance with applicable federal, state and local laws. This includes, but is not limited to, the Illegal Immigration Reform and Immigrant Responsibility Act (IIRIRA) and INA Section 274A.
2. If found to be in violation of this requirement or any applicable laws, and if the State of Missouri has reasonable cause to believe that the Contractor has knowingly employed individuals who are not eligible to work in the United States, the state shall have the right to cancel the contract immediately without penalty or recourse and suspend or debar the contractor from doing business with the state.
3. The Contractor agrees to cooperate fully with any audit or investigation from federal, state or local law enforcement agencies.

**H. Anti-Discrimination Against Israel Act**

1. If the awarded Contractor meets the definition of a company as defined in section 34.600, RSMo, and has ten or more employees, the Contractor shall not engage in a boycott of goods or services from the State of Israel; from companies doing business in or with Israel or authorized by, licensed by, or organized under the laws of the State of Israel; or from persons or entities doing business in the State of Israel as defined in section 34.600, RSMo.
2. If, at any time during the life of the contract, Contractor meets the definition of a company as defined in section 34.600, RSMo, and the company’s employees increases to ten or more OR the contractor’s

business status changes to become a company as defined in section 34.600, RSMo, and the company has ten or more employees, then the Contractor shall submit to the Division of Facilities Management, Design and Construction a completed Box C of the exhibit titled "Anti-Discrimination Against Israel Act Certification, and shall comply with the requirements of Box C.

## 7.0 SIGNATURES

### **FOR SOLE PROPRIETORSHIPS/GENERAL PARTNERSHIPS ONLY**

\_\_\_\_\_  
Sole Proprietor's Name (printed)

Name each general partner: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Today's Date: \_\_\_\_\_

I, \_\_\_\_\_, being the sole proprietor/general partner of (name of business)  
\_\_\_\_\_ (and if the name of said business is other than my legal name, having filed a  
Registration of Fictitious Name with the Missouri Secretary of State in order to allow me to use such name in  
connection with my business, as provided by Section 417.200, RSMo, et seq.), do hereby submit this bid and agree to be  
bound unto the State of Missouri as herein provided (if a general partnership, all partners must sign below).

Signature: \_\_\_\_\_ Signature: \_\_\_\_\_

Signature: \_\_\_\_\_ Signature: \_\_\_\_\_

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### **FOR LIMITED LIABILITY COMPANIES ONLY**

\_\_\_\_\_ today's date \_\_\_\_\_ State(s) of organization: \_\_\_\_\_  
Manager's (or Managing Member's) Name (printed)

I, \_\_\_\_\_, being the Manager (or Managing Member) of (full legal name of limited  
liability company from Articles of Organization) \_\_\_\_\_, and being duly  
authorized to act as herein provided on behalf of said limited liability company, do hereby submit this bid on behalf of  
said limited liability company and agree that said limited liability company shall be bound unto the State of Missouri as  
herein provided.

Signature: \_\_\_\_\_

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**FOR LIMITED PARTNERSHIPS/LIMITED LIABILITY PARTNERSHIPS/LIMITED LIABILITY LIMITED PARTNERSHIPS ONLY**

\_\_\_\_\_ today's date: \_\_\_\_\_ State(s) of organization: \_\_\_\_\_  
General/Managing Partner's Name (printed)

I, \_\_\_\_\_, being the General Partner/Managing Partner of (full legal name of limited partnership/limited liability partnership/limited liability limited partnership from partnership agreement or Certificate of Limited Partnership) \_\_\_\_\_, and being duly authorized to act as herein provided on behalf of said limited partnership/limited liability partnership/limited liability limited partnership, do hereby submit this bid on behalf of said limited partnership/limited liability partnership/limited liability limited partnership and agree that said limited partnership/limited liability partnership/limited liability limited partnership shall be bound unto the State of Missouri as herein provided.

Signature: \_\_\_\_\_

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**FOR CORPORATIONS ONLY**

\_\_\_\_\_  
President's Name (printed)      Secretary's Name (printed)      Today's date

State(s) of incorporation: \_\_\_\_\_

I, \_\_\_\_\_, being the (officer or title) \_\_\_\_\_ of (full legal name of corporation, from Articles of Incorporation) \_\_\_\_\_, and being duly authorized by the Board of Directors of said corporation to act as herein provided on behalf of said corporation, do hereby submit this bid on behalf of said corporation and agree that said corporation shall be bound unto the State of Missouri as herein provided.

Signature: \_\_\_\_\_  
President

Attested by: \_\_\_\_\_  
Corporate Secretary

The President should sign as the bidder. If the signator is other than the corporate president, the bidder must provide satisfactory evidence that the signator has the legal authority to bind the corporation.

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**FOR ASSOCIATIONS/JOINT VENTURES**

If multiple business entities/individuals are bidding collectively as an association or joint venture, each business entity/individual bidding as part of the association or joint venture shall sign this bid in the above sections relevant to the form that such business entity or individual does business, and the bidder shall duplicate the necessary number of signature pages so that all members of the association or joint venture shall sign this bid. If a name is adopted for use by the association or joint venture, the association or joint venture shall file a Registration of Fictitious Name with the Missouri Secretary of State in order to use such name in connection with the association or joint venture, as provided by Section 417.200, RSMo, *et seq.*

**SECTION 004322 - UNIT PRICES FORM**

PROJECT NUMBER: X2220-01

**1.0 Description**

- A. For changing specified quantities of work from those indicated by the contract drawings and specifications, upon written instructions of Owner, the following unit prices shall prevail. The unit prices include all labor, overhead and profit, materials, equipment, appliances, bailing, shoring, shoring removal, etc., to cover the finished work of the several kinds of work called for. Only a single unit price shall be given and it shall apply for either MORE or LESS work than that shown on the drawings and called for in the specifications or included in the Base Bid. In the event of more or less units than so indicated or included during construction the total contract price shall be decreased as appropriate or increased by contract change in accordance with General Conditions Article 4.1.

**2.0 Unit Prices**

A. Unit Price No. 1 – Name: 18” DIA. & Larger Tree Removal

1. Description: Remove existing tree according to Specification Section 311000 Site Clearing, Subsection 3.5 Clearing and Grubbing.
2. Unit of Measurement: Each (EA)
3. Base Bid Quantity: 5 EA

\$ \_\_\_\_\_ per Each

B. Unit Price No. 2 – Name: 3 to 5-inch minus well-graded crushed limestone

1. Description: For stabilization of subgrade in soft zones. Refer to Geotechnical Engineering Services Report Dated August 2, 2022.
2. Unit of Measurement: Cubic Yard (CY)
3. Base Bid Quantity: 3,639 CY in lieu of Unit Price No. 4

\$ \_\_\_\_\_ per Cubic Yard

C. Unit Price No. 3 – Name: Geogrid (basis-of-design Tensar BX1100)

1. Description: For stabilization of subgrade in soft zones, install per manufacturer’s recommendations. Refer to Geotechnical Engineering Services Report Dated August 2, 2022.
2. Unit of Measurement: Square Yard (SY)
3. Base Bid Quantity: 10,152 SY in lieu of Unit Price No. 4

\$ \_\_\_\_\_ per Square Yard

D. Unit Price No. 4 – Name: Low Plasticity Structural Fill and Compaction

1. Description: For stabilization of subgrade in soft zones. Refer to Geotechnical Engineering Services Report Dated August 2, 2022.
2. Unit of Measurement: Cubic Yard (CY)
3. Base Bid Quantity: 6,488 CY

\$ \_\_\_\_\_ per Cubic Yard

E. Unit Price No. 5 – Name: Lime-Treated Subgrade

1. Description: For stabilization of subgrade in soft zones. Refer to Geotechnical Engineering Services Report Dated August 2, 2022.
2. Unit of Measurement: Square Yard (SY)
3. Base Bid Quantity: 10,152 SY in Lieu of Unit Price No. 4

\$ \_\_\_\_\_ per Square Yard

F. Unit Price No. 6 – Name: Asphalt Pavement

1. Description: For paving roads. Refer to Specification Section 321216 Asphalt Paving.
2. Unit of Measurement: Square Yard (SY)
3. Base Bid Quantity: 8,074 SY

\$ \_\_\_\_\_ per Square Yard

G. Unit Price No. 7 – Name: Erosion Blanket

1. Description: North American Green C700BN(basis-of-design), for site stabilization of seeded areas.
2. Unit of Measurement: Square Yard (SY)
3. Base Bid Quantity: 10,700 SY

\$ \_\_\_\_\_ per Square Yard

H. Unit Price No. 8 – Name: Turf Reinforcement Mat

1. Description: For site stabilization of swales (basis-of-design Armormax)
2. Unit of Measurement: Square Yard (SY)
3. Base Bid Quantity: 2,600 SY

\$ \_\_\_\_\_ per Square Yard

**SECTION 004336 – PROPOSED SUBCONTRACTORS**

Project Number: X2220-01

Bidder's Company Name: \_\_\_\_\_

**1.0 CONTRACTOR/SUBCONTRACTOR/MANUFACTURER/ SUPPLIER LIST**

- A. For each category listed below, identify the subcontractor(s) who will perform the specified work and/or the manufacturer/supplier for the specified material or equipment, as applicable. If you plan to use your own employees to do any portion of the work, list yourself. If more than one firm will perform work in one category, you must identify both firms.
- B. After bid opening, no substitutions of the subcontractors, manufactures or suppliers listed below will be allowed except in accordance with Section 007200 – General Conditions, Article 3.1 and/or Article 3.7, as applicable.
- C. All manufacturers or suppliers required to be identified below must be an approved manufacturer or supplier as outlined in the bid specifications or in a written addenda in accordance with Section 4.0 of the Instructions to Bidders.
- D. If any category or work identified below is left vacant or if an unapproved manufacturer or supplier is listed, the bid shall be deemed non-responsive and shall be rejected.**
- E. The Bidder hereby certifies that the following will be used in the performance of the work:

DESCRIPTION OF WORK	SPECIFICATION DIVISION OR SECTION(S)	NAME OF FIRM FOR BASE BID WORK
Division 26	Electrical	
Division 31	Earthwork	
Division 32	Exterior Improvements	
Division 33	Utilities	

## SECTION 004337 - MBE/WBE/SDVE COMPLIANCE EVALUATION FORM

Project Name: \_\_\_\_\_ Project No.: X2220-01

This form is to be completed by bidders and submitted to the State of Missouri, Division of Facilities Management, Design and Construction with the bid submittal. Submit one form per MBE/WBE/SDVE firm involved with the project. This includes any MBE/WBE/SDVE general contractor, joint venture, subcontractor or supplier, regardless of how many tier levels of sub-contracts.

A condition for remaining in competition for award is the satisfactory completion of this form for each minority/woman/service disabled veteran-owned firm that will perform a commercially useful function on the contract. The undersigned submits the following data with respect to the following firm's assurance to meet the Office of Administration's goal for MBE/WBE/SDVE participation.

1. Name of General Contractor: \_\_\_\_\_

2. MBE/WBE/SDVE Firm: \_\_\_\_\_

(Name)

(Address)

(City, State, Zip Code)

(Phone Number)

(email address)

Type of Business: \_\_\_\_\_ Type of Firm: ☐ MBE ☐ WBE ☐ SDVE

Officer Name & Title: \_\_\_\_\_

3. Describe the **subcontract actual work** to be performed (List BASE BID work and any ALTERNATE work separately):

**BASE BID SCOPE OF WORK:** \_\_\_\_\_

**ALTERNATE (S) SCOPE OF WORK:** (identify separately)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. Indicate the **dollar (\$)** amount of contract to be subcontracted to the MBE/WBE/SDVE Firm:

**BASE BID:** \$ \_\_\_\_\_

**ALTERNATE (S):** (identify separately)

\$ \_\_\_\_\_

\$ \_\_\_\_\_

\$ \_\_\_\_\_

5. Is the proposed subcontractor listed in the Minority/Women Business Enterprise Directory maintained by the Office of Equal Opportunity (OEO) or the Division of Purchasing's SDVE directory? YES ☐ NO ☐

Name of General Contractor Signee (Print): \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_



**SECTION 004338 - MBE/WBE/SDVE ELIGIBILITY DETERMINATION FORM FOR JOINT VENTURES**

Project Name: \_\_\_\_\_ Project No.: X2220-01

*If bidder is a joint venture, this form shall be completed and submitted with the bid submittal to the Missouri State Division of Facilities Management, Design and Construction.*

1. Joint Venture Firm: \_\_\_\_\_  
(Name)  
\_\_\_\_\_  
(Address) (City, State, Zip Code)  
\_\_\_\_\_  
(Phone Number) (email address)

2. In order to be counted toward project MBE/WBE/SDVE goals, the MBE/WBE/SDVE partner(s) must be currently certified by a State of Missouri public entity or have proof of SDVE eligibility. Identify the firms which comprise the joint venture and include a copy of the certification of each MBE/WBE/SDVE firm included in the joint venture.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(a) Describe the role of each MBE, WBE, or SDVE firm in the joint venture:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(b) Briefly describe the experience and business qualifications of each non-MBE/WBE/SDVE co-venturer:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. What is the claimed percentage of MBE/WBE/SDVE ownership in the joint venture?

\_\_\_\_\_

4. Ownership of joint venture. **Attach a copy of the joint venture agreement.** (The following need not be filled in if described in the joint venture agreement)

(a) Description of profit and loss sharing:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(b) Description of capital contributions, including equipment:

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(c) Description of other applicable ownership interests:

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6. Control of, and participation in, this contract. Identify by name, race, sex, and "firm" those individuals (and their titles) who are responsible for day-to-day management and policy decision making including, but not limited to, those with prime responsibility for:

- ☐ Financial Decisions      ☐ Management Decisions      ☐ Estimating      ☐ Marketing      ☐ Sales  
☐ Hiring (of management)      ☐ Firing (of management)      ☐ Purchase of major items or supplies

Name	Race	Sex	Firm & Title	Responsibility	Management Decisions

**NOTE:** If after filing this information and before the completion of the joint venture's work on the contract covered by this regulation, there is any significant change in the information submitted, the joint venture must inform the Commissioner, either directly or if the joint venture is a subcontractor through the prime contractor.

#### AFFIDAVIT

"The undersigned swear that the foregoing statements are correct and include all material and information necessary to identify and explain the terms and operation of our joint venture and the intended participation by each joint venturer in the undertaking. Further, the undersigned covenant and agree to provide the Commissioner, Office of Administration, current, complete and accurate information regarding actual joint venture work and the payment therefore and any proposed changes in any of the joint venture arrangements and to permit the audit and examination of the books, records, and files of the joint venture, or those of each joint venturer relevant to the joint venture, by authorized representatives of the Commissioner of the Office of Administration. Any material misrepresentation will be grounds for terminating any contract which may be awarded and for initiating action under Federal or State laws concerning false statements."

Name of Firm: \_\_\_\_\_

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Name of Firm: \_\_\_\_\_

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_  
State of: \_\_\_\_\_  
County of: \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me appeared  
(name) \_\_\_\_\_ to me personally known, who, being duly sworn, did execute the foregoing  
affidavit, and did state that he or she was properly authorized by (name of firm) \_\_\_\_\_  
to execute the affidavit and did so as his or her own free act and deed.

Notary Public: \_\_\_\_\_ (seal)

My commission expires: \_\_\_\_\_

Date: \_\_\_\_\_  
State of: \_\_\_\_\_  
County of: \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me appeared  
(name) \_\_\_\_\_ to me personally known, who, being duly sworn, did execute the foregoing  
affidavit, and did state that he or she was properly authorized by (name of firm) \_\_\_\_\_  
to execute the affidavit and did so as his or her own free act and deed.

Notary Public: \_\_\_\_\_ (seal)

My commission expires: \_\_\_\_\_

SECTION 004339 - GOOD FAITH EFFORT (GFE) DETERMINATION - MBE

Bidder may reach goals for each category as outlined in Section 001116 - Invitation to Bid by participation, GFE or a combination of both.

THIS PAGE IS FOR MBE  
GFE ONLY  
Failure to submit for each diversity category on a separate page may result in rejection of the bid.

INSTRUCTIONS: To meet full MBE GFE goals, refer to Section 002113-Instructions to Bidders providing at least 3 certified companies with all columns completed for each company.

If the bidder has identified companies with actual participation in Section 004337 - MBE/WBE/SDVE Compliance Form do not list those companies below as they will only be scored for participation, not GFE. Any questions or clarifications should be directed to the Contract Specialist of record.

In order to be counted toward the goals, an MBE or WBE must be certified by the State of Missouri, Office of Equal Opportunity and an SDVE must be certified by the State of Missouri, Office of Equal Opportunity or by the Veteran Small Business Administration.

MBE and WBE: <https://apps1.mo.gov/MWBCertifiedFirms/> SDVE: <https://oco.mo.gov/sdve-certification-program/> or <https://veterans.certify.sba.gov/#search>

Bidder's Company Name: \_\_\_\_\_

Project Number: X2331-01

Name of Firm and Person Contacted: Verify that firm is currently certified with Office of Equal Opportunity (OEO)	Category of Work (e.g.: Electrician) or Type of Supplier (e.g.: Plumbing Supplier)	Date of Contact	Response from Subcontractor or Supplier

**SECTION 004339 - GOOD FAITH EFFORT (GFE) DETERMINATION - WBE**

Bidder may reach goals for each category as outlined in Section 001116 - Invitation to Bid by participation, GFE or a combination of both.

***THIS PAGE IS FOR WBE  
GFE ONLY***  
Failure to submit for each diversity category on a separate page may result in rejection of the bid.

**INSTRUCTIONS:** To meet full WBE GFE goals, refer to Section 002113--Instructions to Bidders providing at least 3 certified companies with all columns completed for each company.

If the bidder has identified companies with actual participation in Section 004337 - MBE/WBE/SDVE Compliance Form do not list those companies below as they will only be scored for participation, not GFE. Any questions or clarifications should be directed to the Contract Specialist of record.

In order to be counted toward the goals, an MBE or WBE must be certified by the State of Missouri, Office of Equal Opportunity and an SDVE must be certified by the State of Missouri, Office of Equal Opportunity or by the Veteran Small Business Administration.

MBE and WBE: <https://apps1.mo.gov/MWBCertifiedFirms/> SDVE: <https://oeo.mo.gov/sdve-certification-program/> or <https://veterans.certify.sba.gov/#search>

Bidder's Company Name: \_\_\_\_\_

Project Number: X2331-01

<b>Name of Firm and Person Contacted:</b> Verify that firm is currently certified with Office of Equal Opportunity (OEO)	<b>Category of Work (e.g.: Electrician) or Type of Supplier (e.g.: Plumbing Supplier)</b>	<b>Date of Contact</b>	<b>Response from Subcontractor or Supplier</b>

**SECTION 004339 - GOOD FAITH EFFORT (GFE) DETERMINATION - SDVE**

Bidder may reach goals for each category as outlined in Section 001116 - Invitation to Bid by participation, GFE or a combination of both.

***THIS PAGE IS FOR SDVE  
GFE ONLY***  
Failure to submit for each diversity category on a separate page may result in rejection of the bid.

**INSTRUCTIONS: To meet full SDVE goals, refer to Section 002113-Instructions to Bidders providing at least 3 certified companies with all columns completed for each company.**

If the bidder has identified companies with actual participation in Section 004337 - MBE/WBE/SDVE Compliance Form do not list those companies below as they will only be scored for participation, not GFE. Any questions or clarifications should be directed to the Contract Specialist of record.

In order to be counted toward the goals, an MBE or WBE must be certified by the State of Missouri, Office of Equal Opportunity and an SDVE must be certified by the State of Missouri, Office of Equal Opportunity or by the Veteran Small Business Administration.

MBE and WBE: <https://apps1.mo.gov/MWBCertifiedFirms/> SDVE: <https://oeo.mo.gov/sdve-certification-program/> or <https://veterans.certify.sba.gov/#search>

Bidder's Company Name: \_\_\_\_\_

Project Number: X2331-01

<b>Name of Firm and Person Contacted:</b> Verify that firm is currently certified with Office of Equal Opportunity (OEO) or the federal U.S. Small Business Administration	<b>Category of Work (e.g.: Electrician) or Type of Supplier (e.g.: Plumbing Supplier)</b>	<b>Date of Contact</b>	<b>Response from Subcontractor or Supplier</b>

## MISSOURI SERVICE-DISABLED VETERAN BUSINESS PREFERENCE FORM

Pursuant to section 34.074, RSMo, a service-disabled veteran business doing business as Missouri firm, corporation, or individual, or that maintains a Missouri office or place of business, shall receive a three-point bonus preference in the contract award process. The bonus preference will be calculated and applied by reducing the bid amount(s) of the eligible service-disabled veteran business by three percent of the apparent low responsive bidder's bid. This reduction is for evaluation purposes only, and will have no impact on the actual amount(s) of the bid or the amount(s) of any contract awarded. In order to be eligible for the service-disabled veteran business preference, the bidder must complete and submit this form with its bid.

Definitions (as provided by Section 34.074, RSMo):

Service-Disabled Veteran: any individual who is disabled as certified by the appropriate federal agency responsible for the administration of veterans' affairs.

Service-Disabled Veteran Business: a business concern:

- a. not less than fifty-one (51) percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than fifty-one (51) percent of the stock of which is owned by one or more service-disabled veterans; and
- b. the management and daily business operations of which are controlled by one or more service-disabled veterans.

In order to receive the preference described above, the bidder must either be registered with the Office of Administration, Office of Equal Opportunity or the Veteran Small Business Administration or provide a copy of the bidder's discharge papers (DD Form 214, Certificate of Release from Active Duty). For ease of evaluation, it is preferred that proof of registration with Division of Purchasing or the VA be provided with this form. Discharge papers are not required if registered with Division of Purchasing or the VA.

By signing below, I certify that I meet the definitions of a service-disabled veteran and a service-disabled veteran business, as defined in Section 34.074, RSMo, and that I am either doing business as a Missouri firm, corporation, or individual; or maintain Missouri offices or places of business at the location(s) listed below.

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Service-Disabled Veteran's Name

(Please Print)

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Service-Disabled Veteran Business Name

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Service-Disabled Veteran's Signature

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Missouri Address of Service-Disabled Veteran Business

**SECTION 004541 - AFFIDAVIT OF WORK AUTHORIZATION**

STATE OF \_\_\_\_\_ )  
 )  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_, before me appeared \_\_\_\_\_ (Contractor representative), personally known to me or proved to me on the basis of satisfactory evidence to be a person whose name is subscribed to this affidavit, who being by me duly sworn, deposed as follows:

My name is \_\_\_\_\_ (Contractor representative), and I am of sound mind, capable of making this affidavit, and personally certify the facts herein stated, as required by Section 285.530, RSMo, to enter into any contract agreement with the state to perform any job, task, employment, labor, personal services, or any other activity for which compensation is provided, expected, or due, including but not limited to all activities conducted by business entities:

I am the \_\_\_\_\_ of \_\_\_\_\_, and I am duly  
title business name  
authorized, directed, and/or empowered to act officially and properly on behalf of this business entity.

I hereby affirm and warrant that the aforementioned business entity is enrolled in a federal work authorization program operated by the United States Department of Homeland Security to verify information of newly hired employees, and the aforementioned business entity shall participate in said program with respect to all employees working in connection with the contracted services related to \_\_\_\_\_ with the Office of Administration, Division of Facilities Management, Design and Construction (FMDC). I have attached documentation to this affidavit to evidence enrollment/participation by the aforementioned business entity in a federal work authorization program, as required by Section 285.530, RSMo.

In addition, I hereby affirm and warrant that the aforementioned business entity does not and shall not knowingly employ, in connection to work under the within state contract agreement with FMDC, an alien who does not have the legal right or authorization under federal law to work in the United States, as defined in 8 U.S.C. § 1324a(h)(3).

I am aware and recognize that, unless certain contract and affidavit conditions are satisfied pursuant to Section 285.530, RSMo, the aforementioned business entity may be held liable under Section 285.525 through 285.559, RSMo, for subcontractors that knowingly employ or continue to employ any unauthorized alien to work within the state of Missouri.

I acknowledge that I am signing this affidavit as a free act and deed of the aforementioned business entity and not under duress.

\_\_\_\_\_  
Affiant Signature

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_.

\_\_\_\_\_  
Notary Public

My commission expires:



**SECTION 004545**  
**ANTI-DISCRIMINATION AGAINST ISRAEL ACT CERTIFICATION**

**Statutory Requirement:** Section 34.600, RSMo, precludes entering into a contract with a company to acquire products and/or services “unless the contract includes a written certification that the company is not currently engaged in and shall not, for the duration of the contract, engage in a boycott of goods or services from the State of Israel; companies doing business in or with Israel or authorized by, licensed by, or organized under the laws of the State of Israel; or persons or entities doing business in the State of Israel.”

**Exceptions:** The statute provides two exceptions for this certification: 1) “contracts with a total potential value of less than one hundred thousand dollars” or 2) “contractors with fewer than ten employees.” Therefore the following certification is required prior to any contract award.

Section 34.600, RSMo, defines the following terms:

**Company** - any for-profit or not-for-profit organization, association, corporation, partnership, joint venture, limited partnership, limited liability partnership, limited liability company, or other entity or business association, including all wholly-owned subsidiaries, majority-owned subsidiaries, parent companies, or affiliates of those entities or business associations.

**Boycott Israel and Boycott of the State of Israel** - engaging in refusals to deal, terminating business activities, or other actions to discriminate against, inflict economic harm, or otherwise limit commercial relations specifically with the State of Israel; companies doing business in or with Israel or authorized by, licensed by, or organized under the laws of the State of Israel; or persons or entities doing business in the State of Israel, that are all intended to support a boycott of the State of Israel. A company’s statement that it is participating in boycotts of the State of Israel; companies doing business in or with Israel or authorized by, licensed by, or organized under the laws of the State of Israel; or persons or entities doing business in the State of Israel, or that it has taken the boycott action at the request, in compliance with, or in furtherance of calls for a boycott of the State of Israel; companies doing business in or with Israel or authorized by, licensed by, or organized under the laws of the State of Israel; or persons or entities doing business in the State of Israel shall be considered to be conclusive evidence that a company is participating in a boycott of the State of Israel; companies doing business in or with Israel or authorized by, licensed by, or organized under the laws of the State of Israel; or persons or entities doing business in the State of Israel; provided, however that a company that has made no such statement may still be considered to be participating in a boycott of the State of Israel; companies doing business in or with Israel or authorized by, licensed by, or organized under the laws of the State of Israel; or persons or entities doing business in the State of Israel if other factors warrant such a conclusion.

**Certification:** The vendor must therefore certify their current status by completing either Box A, Box B, or Box C on the next page of this Exhibit. (As used herein, “vendor” refers to any contractor or consultant entering into a contract with the Division of Facilities Management, Design and Construction. “Contract” is used generically to include both a contract for construction or agreement for design services.)

- |               |  |
|---------------|--|
| <b>BOX A:</b> | To be completed by any vendor that <u>does not meet the definition of “company”</u> above, hereinafter referred to as “Non-Company.” |
| <b>BOX B:</b> | To be completed by a vendor that meets the definition of “Company” but has <u>less than ten employees</u> .                          |
| <b>BOX C:</b> | To be completed by a vendor that <u>meets the definition of “Company”</u> and <u>has ten or more employees</u> .                     |

**EXHIBIT A, continued**

**BOX A – NON-COMPANY ENTITY**

I certify that \_\_\_\_\_ (Entity Name) currently **DOES NOT MEET** the definition of a company as defined in section 34.600, RSMo, but that if awarded a contract and the entity's business status changes during the life of the contract to become a "company" as defined in section 34.600, RSMo, and the entity has ten or more employees, then, prior to the delivery of any services and/or supplies as a company, the entity agrees to comply with, complete, and return Box C to the Division of Facilities Management, Design and Construction at that time.

\_\_\_\_\_  
Authorized Representative's Name (Please  
Print)

\_\_\_\_\_  
Authorized Representative's Signature

\_\_\_\_\_  
Entity Name

\_\_\_\_\_  
Date

**BOX B – COMPANY ENTITY WITH LESS THAN TEN EMPLOYEES**

I certify that \_\_\_\_\_ (Company Name) **MEETS** the definition of a company as defined in section 34.600, RSMo, and currently has less than ten employees but that if awarded a contract and if the company increases the number of employees to ten or more during the life of the contract, then said company shall comply with, complete, and return Box C to the Division of Facilities Management, Design and Construction at that time.

\_\_\_\_\_  
Authorized Representative's Name (Please  
Print)

\_\_\_\_\_  
Authorized Representative's Signature

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Date

**BOX C – COMPANY ENTITY WITH TEN OR MORE EMPLOYEES**

I certify that \_\_\_\_\_ (Company Name) **MEETS** the definition of a company as defined in section 34.600, RSMo, has ten or more employees, and is not currently engaged in a boycott of goods or services from the State of Israel; companies doing business in or with Israel or authorized by, licensed by, or organized under the laws of the State of Israel; or persons or entities doing business in the State of Israel as defined in section 34.600, RSMo. I further certify that if the company is awarded a contract for the services and/or supplies requested herein said company shall not engage in a boycott of goods or services from the State of Israel; companies doing business in or with Israel or authorized by, licensed by, or organized under the laws of the State of Israel; or persons or entities doing business in the State of Israel as defined in section 34.600, RSMo, for the duration of the contract.

\_\_\_\_\_  
Authorized Representative's Name (Please  
Print)

\_\_\_\_\_  
Authorized Representative's Signature

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Date

## **SECTION 321216 – ASPHALT PAVING**

### **PART 1 - GENERAL**

#### **1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

#### **1.2 SUMMARY**

- A. Section Includes:
  - 1. Cold milling of existing asphalt pavement.
  - 2. Hot-mix asphalt patching.
  - 3. Hot-mix asphalt paving.
  - 4. Hot-mix asphalt overlay.
  - 5. Asphalt surface treatments.

- B. Related Requirements:

#### **1.3 UNIT PRICES**

- A. Work of this Section is affected by full depth asphalt paving.

#### **1.4 PREINSTALLATION MEETINGS**

- A. Pre-installation Conference: Conduct conference at Project site.
  - 1. Review methods and procedures related to hot-mix asphalt paving including, but not limited to, the following:
    - a. Review proposed sources of paving materials, including capabilities and location of plant that will manufacture hot-mix asphalt.
    - b. Review requirements for protecting paving work, including restriction of traffic during installation period and for remainder of construction period.

#### **1.5 ACTION SUBMITTALS**

- A. Product Data: For each type of product.
  - 1. Include technical data and tested physical and performance properties.
  - 2. Job-Mix Designs: Certification, by authorities having jurisdiction, of approval of each job mix proposed for the Work.
  - 3. Job-Mix Designs: For each job mix proposed for the Work.

## 1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For manufacturer and testing agency.
- B. Material Certificates: For each paving material. Include statement that mixes containing recycled materials will perform equal to mixes produced from all new materials.
- C. Material Test Reports: For each paving material, by a qualified testing agency.
- D. Field quality-control reports.

## 1.7 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A paving-mix manufacturer registered with and approved by authorities having jurisdiction or the DOT of state in which Project is located.
- B. Testing Agency Qualifications: Qualified according to ASTM D 3666 for testing indicated.
- C. Regulatory Requirements: Comply with materials, workmanship, and other applicable requirements of KDOT for asphalt paving work.
  - 1. Measurement and payment provisions and safety program submittals included in standard specifications do not apply to this Section.
- D. All material testing shall be completed by the CONTRACTOR at no expense to the OWNER.

## 1.8 FIELD CONDITIONS

- A. Environmental Limitations: Do not apply asphalt materials if subgrade is wet or excessively damp, if rain is imminent or expected before time required for adequate cure, or if the following conditions are not met:
  - 1. Prime Coat: Minimum surface temperature of 60 deg F (15.6 deg C).
  - 2. Tack Coat: Minimum surface temperature of 60 deg F (15.6 deg C).
  - 3. Slurry Coat: Comply with weather limitations in ASTM D 3910.
  - 4. Asphalt Base Course: Minimum surface temperature of 40 deg F (4.4 deg C) and rising at time of placement.
  - 5. Asphalt Surface Course: Minimum surface temperature of 60 deg F (15.6 deg C) at time of placement.

## PART 2 - PRODUCTS

### 2.1 AGGREGATES

- A. General: Use materials and gradations that have performed satisfactorily in previous installations.

- B. Coarse Aggregate: ASTM D 692/D 692M, sound; angular crushed stone, crushed gravel, or cured, crushed blast-furnace slag.
- C. Fine Aggregate: ASTM D 1073 or AASHTO M 29, sharp-edged natural sand or sand prepared from stone, gravel, cured blast-furnace slag, or combinations thereof.
  - 1. For hot-mix asphalt, limit natural sand to a maximum of 20 percent by weight of the total aggregate mass.
- D. Mineral Filler: ASTM D 242/D 242M or AASHTO M 17, rock or slag dust, hydraulic cement, or other inert material.

## 2.2 ASPHALT MATERIALS

- A. Asphalt Binder: ASTM D 6373 or AASHTO M 320 binder designation PG 64-22.
- B. Asphalt Cement: ASTM D 3381/D 3381M for viscosity-graded material ASTM D 946/D 946M for penetration-graded material.
- C. Cutback Prime Coat: ASTM D 2027/D 2027M, medium-curing cutback asphalt, MC-250.
- D. Emulsified Asphalt Prime Coat: ASTM D 977 or AASHTO M 140 emulsified asphalt, or ASTM D 2397/D 2397M or AASHTO M 208 cationic emulsified asphalt, slow setting, diluted in water, of suitable grade and consistency for application.
- E. Tack Coat: ASTM D 977 or AASHTO M 140 emulsified asphalt, or ASTM D 2397/D 2397M or AASHTO M 208 cationic emulsified asphalt, slow setting, diluted in water, of suitable grade and consistency for application.
- F. Fog Seal: ASTM D 977 or AASHTO M 140 emulsified asphalt, or ASTM D 2397/D 2397M or AASHTO M 208 cationic emulsified asphalt, slow setting, factory diluted in water, of suitable grade and consistency for application.
- G. Water: Potable.
- H. Undersealing Asphalt: ASTM D 3141/D 3141M; pumping consistency.

## 2.3 AUXILIARY MATERIALS

- A. Recycled Materials for Hot-Mix Asphalt Mixes: Reclaimed asphalt pavement; reclaimed, unbound-aggregate base material; and recycled tires, asphalt shingles or glass from sources and gradations that have performed satisfactorily in previous installations, equal to performance of required hot-mix asphalt paving produced from all new materials.
- B. Herbicide: Commercial chemical for weed control, registered by the EPA, and not classified as "restricted use" for locations and conditions of application. Provide in granular, liquid, or wettable powder form.
- C. Sand: ASTM D 1073 or AASHTO M 29, Grade No. 2 or No. 3.

- D. Paving Geotextile: AASHTO M 288 paving fabric; nonwoven polypropylene; resistant to chemical attack, rot, and mildew; and specifically designed for paving applications.
- E. Joint Sealant: ASTM D 6690, Type I, hot-applied, single-component, polymer-modified bituminous sealant.

## 2.4 MIXES

- A. MoDOT Section 401, 2020 Edition
  - 1. Per Section 401 Plant Mix Bituminous Base and Pavement
- B. Hot-Mix Asphalt: Dense-graded, hot-laid, hot-mix asphalt plant mixes approved by authorities having jurisdiction complying with the following requirements:
  - 1. Provide mixes with a history of satisfactory performance in geographical area where Project is located.
  - 2. Base Course: MoDOT BP-2.
  - 3. Surface Course: MoDOT BP-1.
- C. Emulsified-Asphalt Slurry: ASTM D 3910, Type 1

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Verify that subgrade is dry and in suitable condition to begin paving.
- B. Proceed with paving only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Protection: Provide protective materials, procedures, and worker training to prevent asphalt materials from spilling, coating, or building up on curbs, driveway aprons, manholes, and other surfaces adjacent to the Work.
- B. Proof-roll subgrade below pavements with heavy pneumatic-tired equipment to identify soft pockets and areas of excess yielding. Do not proof-roll wet or saturated subgrades.
  - 1. Completely proof-roll subgrade in one direction, repeating proof-rolling in direction perpendicular to first direction. Limit vehicle speed to 3 mph (5 km/h).
  - 2. Proof roll with a loaded 10-wheel, tandem-axle dump truck weighing not less than 20 tons.
  - 3. Excavate soft spots, unsatisfactory soils, and areas of excessive pumping or rutting, as determined by Architect, and replace with compacted backfill or fill as directed.

### 3.3 COLD MILLING

- A. Clean existing pavement surface of loose and deleterious material immediately before cold milling. Remove existing asphalt pavement by cold milling to grades and cross sections indicated.
  - 1. Mill to a depth of 1-1/2 inches (38 mm).
  - 2. Mill to a uniform finished surface free of excessive gouges, grooves, and ridges.
  - 3. Control rate of milling to prevent tearing of existing asphalt course.
  - 4. Repair or replace curbs, driveway aprons, manholes, and other construction damaged during cold milling.
  - 5. Excavate and trim unbound-aggregate base course, if encountered, and keep material separate from milled hot-mix asphalt.
  - 6. Patch surface depressions deeper than 1 inch (25 mm) after milling, before wearing course is laid.
  - 7. Handle milled asphalt material according to approved waste management plan required in Section 017419 "Construction Waste Management and Disposal."
  - 8. Keep milled pavement surface free of loose material and dust.
  - 9. Do not allow milled materials to accumulate on-site.

### 3.4 PATCHING

- A. Asphalt Pavement: Saw cut perimeter of patch and excavate existing pavement section to sound base. Excavate rectangular or trapezoidal patches, extending 12 inches (300 mm) into perimeter of adjacent sound pavement, unless otherwise indicated. Cut excavation faces vertically. Remove excavated material. Recompact existing unbound-aggregate base course to form new subgrade.
- B. Portland Cement Concrete Pavement: Break cracked slabs and roll as required to reseal concrete pieces firmly.
  - 1. Undersealing: Pump hot undersealing asphalt under rocking slab until slab is stabilized or, if necessary, crack slab into pieces and roll to reseal pieces firmly.
  - 2. Remove disintegrated or badly cracked pavement. Excavate rectangular or trapezoidal patches, extending into perimeter of adjacent sound pavement, unless otherwise indicated. Cut excavation faces vertically. Recompact existing unbound-aggregate base course to form new subgrade.
- C. Tack Coat: Before placing patch material, apply tack coat uniformly to vertical asphalt surfaces abutting the patch. Apply at a rate of 0.05 to 0.15 gal./sq. yd. (0.2 to 0.7 L/sq. m).
  - 1. Allow tack coat to cure undisturbed before applying hot-mix asphalt paving.
  - 2. Avoid smearing or staining adjoining surfaces, appurtenances, and surroundings. Remove spillages and clean affected surfaces.
- D. Placing Patch Material: Fill excavated pavement areas with hot-mix asphalt base mix for full thickness of patch and, while still hot, compact flush with adjacent surface.

- E. Placing Patch Material: Partially fill excavated pavements with hot-mix asphalt base mix and, while still hot, compact. Cover asphalt base course with compacted, hot-mix surface layer finished flush with adjacent surfaces.

### 3.5 REPAIRS

- A. Leveling Course: Install and compact leveling course consisting of hot-mix asphalt surface course to level sags and fill depressions deeper than 1 inch (25 mm) in existing pavements.
  - 1. Install leveling wedges in compacted lifts not exceeding 3 inches (75 mm) thick.
- B. Crack and Joint Filling: Remove existing joint filler material from cracks or joints to a depth of 1/4 inch (6 mm).
  - 1. Clean cracks and joints in existing hot-mix asphalt pavement.
  - 2. Use emulsified-asphalt slurry to seal cracks and joints less than 1/4 inch (6 mm) wide. Fill flush with surface of existing pavement and remove excess.
  - 3. Use hot-applied joint sealant to seal cracks and joints more than 1/4 inch (6 mm) wide. Fill flush with surface of existing pavement and remove excess.

### 3.6 SURFACE PREPARATION

- A. Immediately before placing asphalt materials, remove loose and deleterious material from substrate surfaces. Ensure that prepared subgrade is ready to receive paving.
- B. Herbicide Treatment: Apply herbicide according to manufacturer's recommended rates and written application instructions. Apply to dry, prepared subgrade or surface of compacted-aggregate base before applying paving materials.
  - 1. Mix herbicide with prime coat if formulated by manufacturer for that purpose.
- C. Cutback Prime Coat: Apply uniformly over surface of compacted unbound-aggregate base course at a rate of 0.15 to 0.50 gal./sq. yd. (0.7 to 2.3 L/sq. m). Apply enough material to penetrate and seal, but not flood, surface. Allow prime coat to cure.
  - 1. If prime coat is not entirely absorbed within 24 hours after application, spread sand over surface to blot excess asphalt. Use enough sand to prevent pickup under traffic. Remove loose sand by sweeping before pavement is placed and after volatiles have evaporated.
  - 2. Protect primed substrate from damage until ready to receive paving.
- D. Emulsified Asphalt Prime Coat: Apply uniformly over surface of compacted unbound-aggregate base course at a rate of 0.10 to 0.30 gal./sq. yd. per inch depth (0.5 to 1.40 L/sq. m per 25 mm depth). Apply enough material to penetrate and seal, but not flood, surface. Allow prime coat to cure.
  - 1. If prime coat is not entirely absorbed within 24 hours after application, spread sand over surface to blot excess asphalt. Use enough sand to prevent pickup under traffic. Remove loose sand by sweeping before pavement is placed and after volatiles have evaporated.
  - 2. Protect primed substrate from damage until ready to receive paving.



- E. Tack Coat: Apply uniformly to surfaces of existing pavement at a rate of 0.05 to 0.15 gal./sq. yd. (0.2 to 0.7 L/sq. m).
  - 1. Allow tack coat to cure undisturbed before applying hot-mix asphalt paving.
  - 2. Avoid smearing or staining adjoining surfaces, appurtenances, and surroundings. Remove spillages and clean affected surfaces.

### 3.7 PLACING HOT-MIX ASPHALT

- A. Machine place hot-mix asphalt on prepared surface, spread uniformly, and strike off. Place asphalt mix by hand in areas inaccessible to equipment in a manner that prevents segregation of mix. Place each course to required grade, cross section, and thickness when compacted.
  - 1. Place hot-mix asphalt base course in number of lifts and thicknesses indicated.
  - 2. Place hot-mix asphalt surface course in single lift.
  - 3. Spread mix at a minimum temperature of 250 deg F (121 deg C).
  - 4. Begin applying mix along centerline of crown for crowned sections and on high side of one-way slopes unless otherwise indicated.
  - 5. Regulate paver machine speed to obtain smooth, continuous surface free of pulls and tears in asphalt-paving mat.
- B. Place paving in consecutive strips not less than 10 feet (3 m) wide unless infill edge strips of a lesser width are required.
  - 1. After first strip has been placed and rolled, place succeeding strips and extend rolling to overlap previous strips. Overlap mix placement about 1 to 1-1/2 inches (25 to 38 mm) from strip to strip to ensure proper compaction of mix along longitudinal joints.
  - 2. Complete a section of asphalt base course before placing asphalt surface course.
- C. Promptly correct surface irregularities in paving course behind paver. Use suitable hand tools to remove excess material forming high spots. Fill depressions with hot-mix asphalt to prevent segregation of mix; use suitable hand tools to smooth surface.

### 3.8 JOINTS

- A. Construct joints to ensure a continuous bond between adjoining paving sections. Construct joints free of depressions, with same texture and smoothness as other sections of hot-mix asphalt course.
  - 1. Clean contact surfaces and apply tack coat to joints.
  - 2. Offset longitudinal joints, in successive courses, a minimum of 6 inches (150 mm).
  - 3. Offset transverse joints, in successive courses, a minimum of 24 inches (600 mm).
  - 4. Construct transverse joints at each point where paver ends a day's work and resumes work at a subsequent time. Construct these joints using either "bulkhead" or "papered" method according to AI MS-22, for both "Ending a Lane" and "Resumption of Paving Operations."
  - 5. Compact joints as soon as hot-mix asphalt will bear roller weight without excessive displacement.
  - 6. Compact asphalt at joints to a density within 2 percent of specified course density.

### 3.9 COMPACTION

- A. General: Begin compaction as soon as placed hot-mix paving will bear roller weight without excessive displacement. Compact hot-mix paving with hot, hand tampers or with vibratory-plate compactors in areas inaccessible to rollers.
  - 1. Complete compaction before mix temperature cools to 185 deg F (85 deg C).
- B. Breakdown Rolling: Complete breakdown or initial rolling immediately after rolling joints and outside edge. Examine surface immediately after breakdown rolling for indicated crown, grade, and smoothness. Correct laydown and rolling operations to comply with requirements.
- C. Intermediate Rolling: Begin intermediate rolling immediately after breakdown rolling while hot-mix asphalt is still hot enough to achieve specified density. Continue rolling until hot-mix asphalt course has been uniformly compacted to the following density:
  - 1. Average Density: 96 percent of reference laboratory density according to ASTM D 6927 or AASHTO T 245, but not less than 94 percent or greater than 100 percent.
  - 2. Average Density: 92 percent of reference maximum theoretical density according to ASTM D 2041/D 2041M, but not less than 90 percent or greater than 96 percent.
- D. Finish Rolling: Finish roll paved surfaces to remove roller marks while hot-mix asphalt is still warm.
- E. Edge Shaping: While surface is being compacted and finished, trim edges of pavement to proper alignment. Bevel edges while asphalt is still hot; compact thoroughly.
- F. Repairs: Remove paved areas that are defective or contaminated with foreign materials and replace with fresh, hot-mix asphalt. Compact by rolling to specified density and surface smoothness.
- G. Protection: After final rolling, do not permit vehicular traffic on pavement until it has cooled and hardened.
- H. Erect barricades to protect paving from traffic until mixture has cooled enough not to become marked.

### 3.10 INSTALLATION TOLERANCES

- A. Pavement Thickness: Compact each course to produce the thickness indicated within the following tolerances:
  - 1. Base Course: Plus or minus 1/4 inch (13 mm).
  - 2. Surface Course: Plus 1/4 inch (6 mm), no minus.
- B. Pavement Surface Smoothness: Compact each course to produce a surface smoothness within the following tolerances as determined by using a 10-foot (3-m) straightedge applied transversely or longitudinally to paved areas:
  - 1. Base Course: 1/4 inch (6 mm).
  - 2. Surface Course: 1/8 inch (3 mm).

3. Crowned Surfaces: Test with crowned template centered and at right angle to crown. Maximum allowable variance from template is 1/4 inch (6 mm).
- C. Asphalt Traffic-Calming Devices: Compact and form asphalt to produce the contour indicated and within a tolerance of plus or minus 1/8 inch (3 mm) of height indicated above pavement surface.

### 3.11 SURFACE TREATMENTS

- A. Fog Seals: Apply fog seal at a rate of 0.10 to 0.15 gal./sq. yd. (0.45 to 0.7 L/sq. m) to existing asphalt pavement and allow to cure. With fine sand, lightly dust areas receiving excess fog seal.
- B. Slurry Seals: Apply slurry coat in a uniform thickness according to ASTM D 3910 and allow to cure.
  1. Roll slurry seal to remove ridges and provide a uniform, smooth surface.

### 3.12 FIELD QUALITY CONTROL

- A. Testing Agency: CONTRACTOR will engage a qualified testing agency to perform tests and inspections at no expense to the OWNER.
- B. Thickness: In-place compacted thickness of hot-mix asphalt courses will be determined according to ASTM D 3549/D 3549M.
- C. Surface Smoothness: Finished surface of each hot-mix asphalt course will be tested for compliance with smoothness tolerances.
- D. In-Place Density: Testing agency will take samples of uncompacted paving mixtures and compacted pavement according to ASTM D 979/D 979M or AASHTO T 168.
  1. Reference maximum theoretical density will be determined by averaging results from four samples of hot-mix asphalt-paving mixture delivered daily to site, prepared according to ASTM D 2041/D 2041M, and compacted according to job-mix specifications.
  2. In-place density of compacted pavement will be determined by testing core samples according to ASTM D 1188 or ASTM D 2726/D 2726M.
    - a. One core sample will be taken for every 1000 sq. yd. (836 sq. m) or less of installed pavement, with no fewer than three cores taken.
    - b. Field density of in-place compacted pavement may also be determined by nuclear method according to ASTM D 2950 and correlated with ASTM D 1188 or ASTM D 2726/D 2726M.
- E. Replace and compact hot-mix asphalt where core tests were taken.
- F. Remove and replace or install additional hot-mix asphalt where test results or measurements indicate that it does not comply with specified requirements.

3.13 WASTE HANDLING

- A. General: Handle asphalt-paving waste according to approved waste management plan required in Section 017419 "Construction Waste Management and Disposal."

**END OF SECTION 321216**







**OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION**

DEPARTMENT OF  
NATURAL RESOURCES,  
MISSOURI STATE PARKS

NEW PREMIUM CAMPSITES

WATKINS WOOLEN MILL  
STATE HISTORIC SITE  
26600 PARK ROAD N.

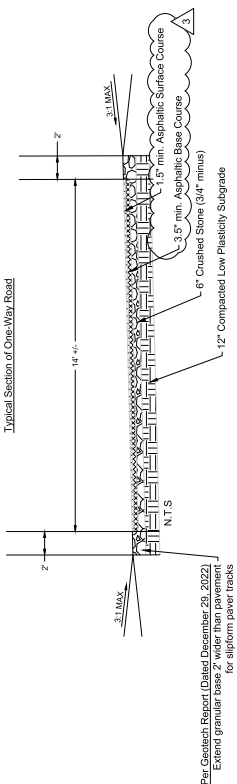
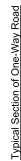
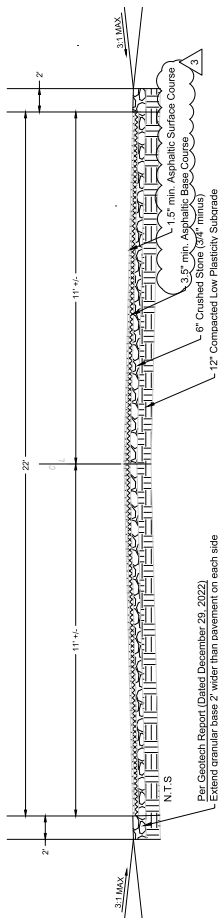
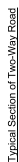
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FACILITY # 7815126063

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REVISION:  
DATE:  
REVISION:  
DATE:  
ISSUE DATE: 03/19/2025

CAD DWG FILE: TCD  
DRAWN BY: MES  
CHECKED BY: ZMM  
DESIGNED BY: ZMM

**SHEET TITLE:**  
**TYPICAL SECTIONS**

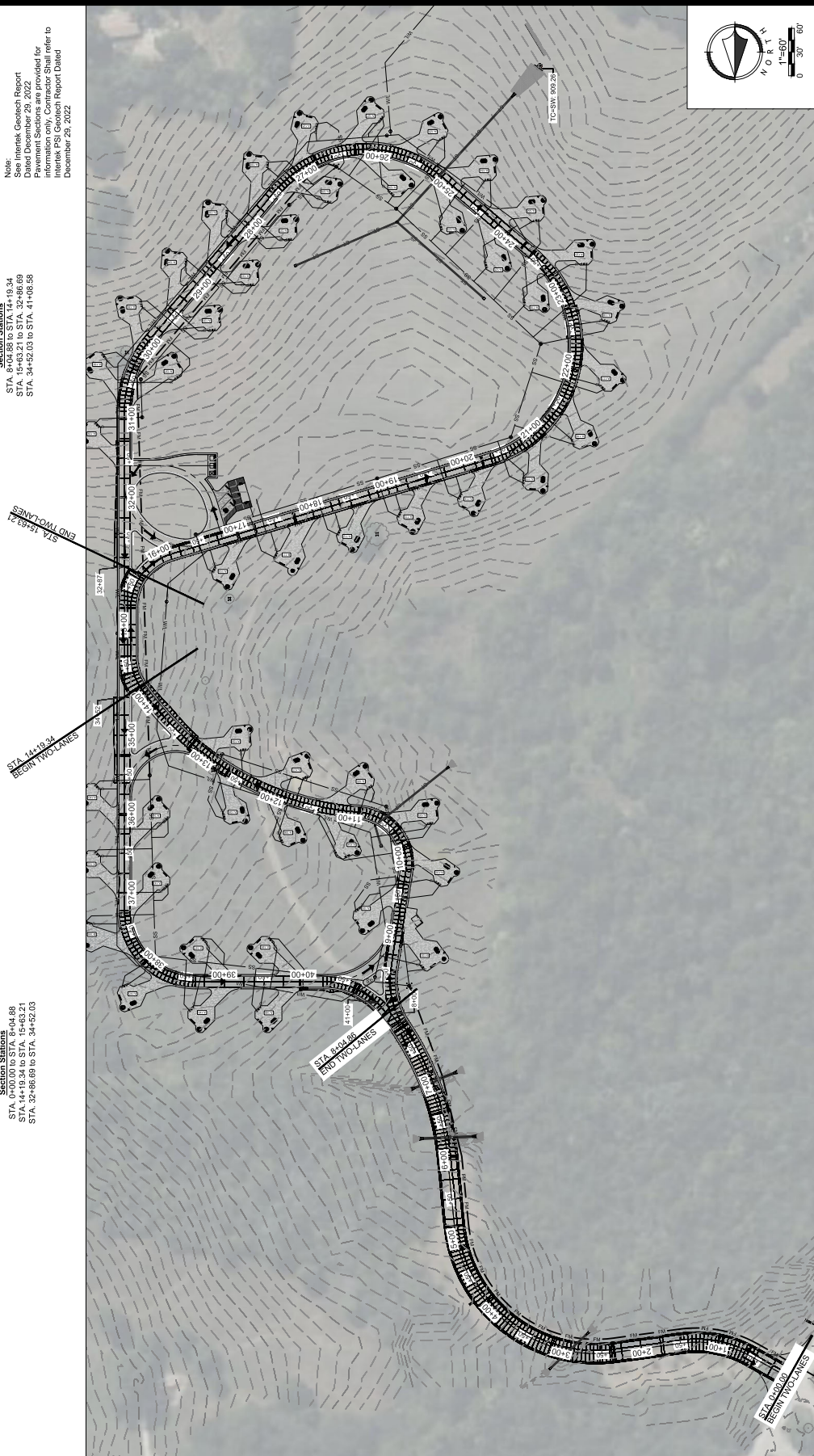
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C-104



**Section Stations**  
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STA. 14+19.34 to STA. 15+  
STA. 32+86.69 to STA. 34+

**Section Stations**  
STA. 8+04.88 to STA. 14+19.34  
STA. 15+63.21 to STA. 32+86.69  
STA. 34+52.03 to STA. 41+08.58

**Note:**  
See Intertek Geotech Report  
Dated December 29, 2022  
Pavement Sections are provided for  
information only, Contractor Shall refer to  
Intertek PSI Geotech Report Dated  
December 29, 2022









LANDSCAPE ARCHITECT  
Vireo  
1001 N. 20th Street  
Kearney, MO 64063  
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REINFORCEMENT ENGINEERS  
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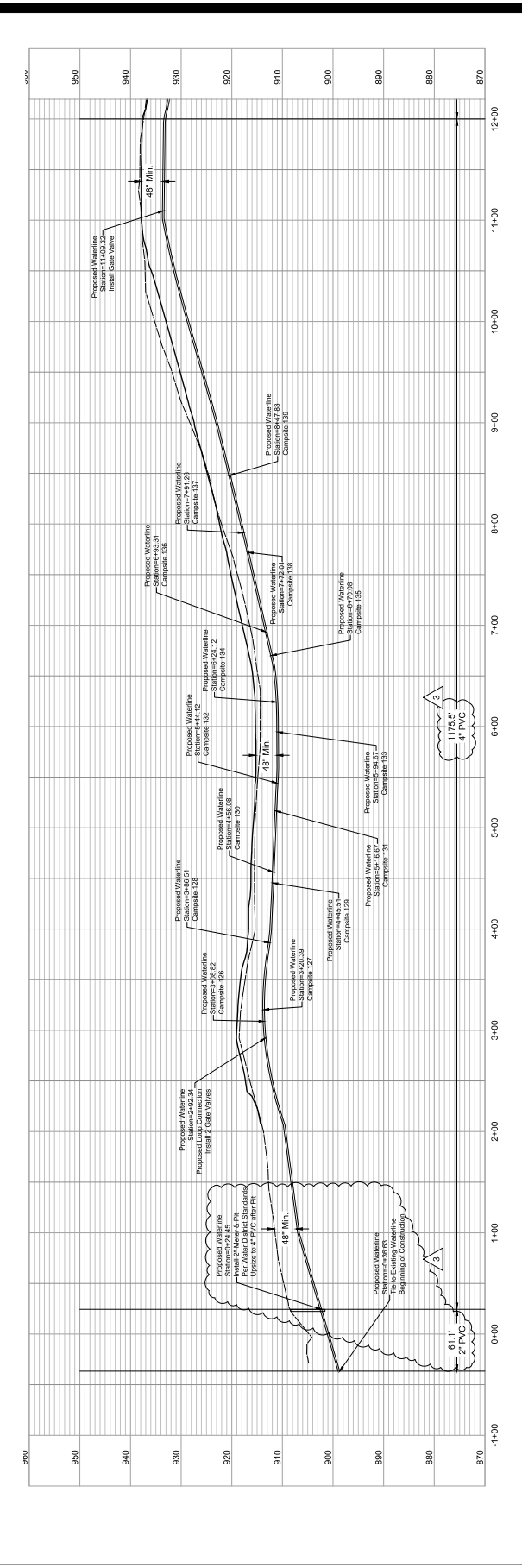
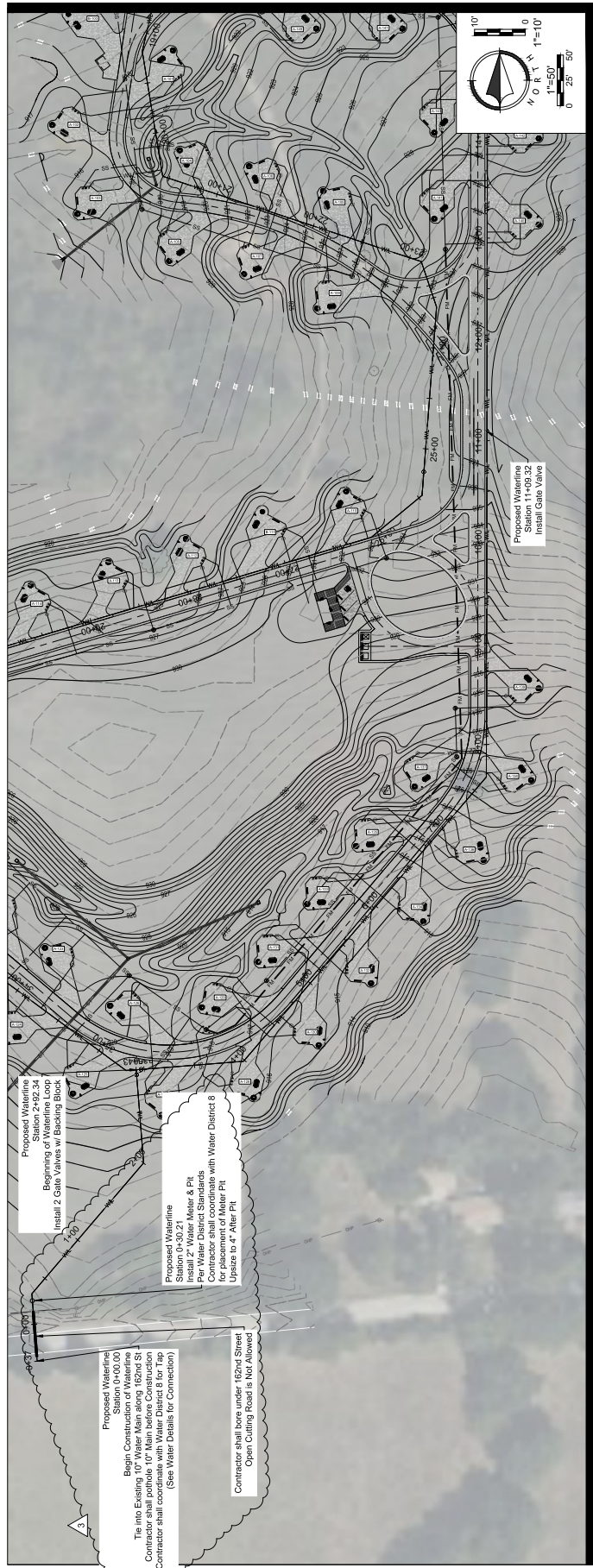
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WATERLINE PLAN &  
PROFILE

SHEET NUMBER:  
**C-513**











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